

Level C Data Package Deliverables

# Wet Chemistry



Applied P & Ch Laboratory

Applied P & Ch Laboratory  
**Wet Analysis Results for Method 7196**

Client Name: GEOFON, Inc. Project No: 04-4428.10 Anal. Method 7196  
Project ID: Service ID: 34854 Collected by:

Component Name: Chromium (VI)  
CAS No: 1333-82-0

| Lab ID        | Sample ID     | Matrix | Coll. Date | Rcv Date | Anal. Date | Batch   | Unit | RL   | Result | Q |
|---------------|---------------|--------|------------|----------|------------|---------|------|------|--------|---|
| 03-4854-1     | MW-7          | Water  | 08/26/03   | 08/26/03 | 08/26/03   | 03W4245 | mg/L | 0.01 | <0.01  | U |
| 03-4854-2     | MW-13         | Water  | 08/26/03   | 08/26/03 | 08/26/03   | 03W4245 | mg/L | 0.01 | <0.01  | U |
| 03-4854-3     | MW-16         | Water  | 08/26/03   | 08/26/03 | 08/26/03   | 03W4245 | mg/L | 0.01 | <0.01  | U |
| 03W4245-MB-01 | 03W4245-MB-01 | Water  | 08/26/03   | 08/26/03 | 08/26/03   | 03W4245 | mg/L | 0.01 | <0.01  | U |

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

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory  
**Wet Analysis Results for Method 314.0**

Client Name: GEOFON, Inc. Project No: 04-4428.10 Anal. Method 314.0  
Project ID: Service ID: 34854 Collected by:

Component Name: Perchlorate  
CAS No:

| Lab ID        | Sample ID     | Matrix | Coll. Date | Rcv Date | Anal. Date | Batch   | Unit | RL  | Result | Q |
|---------------|---------------|--------|------------|----------|------------|---------|------|-----|--------|---|
| 03-4854-1     | MW-7          | Water  | 08/26/03   | 08/26/03 | 08/28/03   | 03W4284 | µg/L | 200 | 1920   |   |
| 03-4854-2     | MW-13         | Water  | 08/26/03   | 08/26/03 | 08/28/03   | 03W4284 | µg/L | 16  | 159    |   |
| 03-4854-3     | MW-16         | Water  | 08/26/03   | 08/26/03 | 08/28/03   | 03W4284 | µg/L | 100 | 1520   |   |
| 03W4284-MB-01 | 03W4284-MB-01 | Water  | 08/28/03   | 08/28/03 | 08/28/03   | 03W4284 | µg/L | 4   | < 4    | U |

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

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

## FORM-3

Applied P &amp; Ch Laboratory

## Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 314.0

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 3151

Project ID:

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03W4284

LCS Filename: -

Date Analyzed: 082803

Time Analyzed:

LCSD Filename: -

Date Analyzed: 082803

Time Analyzed:

| Spiked Components   | Unit | Spike Added | Concentration |      | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|------------|-----------------|
|                     |      |             | Unspiked      | LCS  |            |                 |
| PERCHLORATE         | µg/L | 25          | 0             | 25.3 | 101        | 80-120          |
| # of Out-of-control |      |             |               |      | 0          |                 |

| Spiked Components   | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|--------------------|-------------|--------|-------------|--------|
|                     |      |             |                    |             |        | RPD         | REC    |
| PERCHLORATE         | µg/L | 25          | 26.9               | 108         | 7      | 20          | 80-120 |
| # 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-3

Applied P &amp; Ch Laboratory

**Matrix Spike/Matrix Spike Duplicate Recovery for Method 314.0**

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34854

Project ID:

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03W4284

MS Filename: -

Date Analyzed: 082803

Time Analyzed:

MSD Filename: -

Date Analyzed: 082803

Time Analyzed:

MS Sample No: MW-16

Sample Lab ID: 03-4854-3

| Spiked Components   | Unit | Spike Added | Concentration |      | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|-----------|-----------------|
|                     |      |             | Unspiked      | MS   |           |                 |
| PERCHLORATE         | µg/L | 25          | 1520          | 1540 | 80        | 75-125          |
| # of Out-of-control |      |             |               |      | 0         |                 |

| Spiked Components   | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
|                     |      |             |                   |            |        | RPD         | REC    |
| PERCHLORATE         | µg/L | 25          | 1550              | 120        | 1      | 20          | 75-125 |
| # 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-3

Applied P &amp; Ch Laboratory

## Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 7196

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34854

Project ID:

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03W4245

LCS Filename: -

Date Analyzed: 082603

Time Analyzed: 13:40

LCSD Filename: -

Date Analyzed: 082603

Time Analyzed: 13:40

| Spiked Components   | Unit | Spike Added | Concentration |       | LCS Rec% # | QC Limit. % REC |
|---------------------|------|-------------|---------------|-------|------------|-----------------|
|                     |      |             | Unspiked      | LCS   |            |                 |
| CHROMIUM (VI)       | mg/L | 0.25        | 0             | 0.235 | 94         | 80-115          |
| # of Out-of-control |      |             |               |       | 0          |                 |

| Spiked Components   | Unit | Spike Added | LCSD Concentration | LCSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|--------------------|-------------|--------|-------------|--------|
|                     |      |             |                    |             |        | RPD         | REC    |
| CHROMIUM (VI)       | mg/L | 0.25        | 0.230              | 92          | 2      | 19          | 80-115 |
| # 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-3

Applied P &amp; Ch Laboratory

## Matrix Spike/Matrix Spike Duplicate Recovery for Method 7196

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCI

Case No:

SAS No:

Service ID: 34854

Project ID:

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03W4245

MS Filename: -

Date Analyzed: 082603

Time Analyzed: 13:40

MSD Filename: -

Date Analyzed: 082603

Time Analyzed: 13:40

MS Sample No: MW-16

Sample Lab ID: 03-4854-3

| Spiked Components   | Unit | Spike Added | Concentration |       | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|-------|-----------|-----------------|
|                     |      |             | Unspiked      | MS    |           |                 |
| CHROMIUM (VI)       | mg/L | 0.25        | 0             | 0.217 | 87        | 78-115          |
| # of Out-of-control |      |             |               |       | 0         |                 |

| Spiked Components   | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
|                     |      |             |                   |            |        | RPD         | REC    |
| CHROMIUM (VI)       | mg/L | 0.25        | 0.223             | 89         | 2      | 19          | 78-115 |
| # 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: \_\_\_\_\_

\_\_\_\_\_

6A

INITIAL CALIBRATION DATA

Lab Name: Applied P & Ch Lab Contract: 34854

Analysis: Chromium (VI) Calibration Date: 7/28/03

|                      |       |        |       |       |       |       |
|----------------------|-------|--------|-------|-------|-------|-------|
| Concentration (mg/L) | 0.000 | 0.0125 | 0.050 | 0.125 | 0.250 | 0.50  |
| Absorbance           | 0.000 | 0.007  | 0.017 | 0.107 | 0.212 | 0.420 |

$$A = -0.001 + 0.846C$$

**A=Absorbance**

**C=Concentration (mg/L)**

**r= 0.9999**

FORM-7  
Applied P & Ch Laboratory  
**CCV Recovery for Wet Analysis**

Client Name: GEOFON, Inc.

Contract No.:

Lab Code:

APCL

Case No:

SAS No.:

Service ID:

34854

Project ID:

Project No.: 04-4428.10

| # | Component Name | Method | Batch No. | Unit | Expe-<br>cted | Test<br>Result | Rec.<br>% | Dev.<br>% | Flag | Control<br>Limit, % | Test<br>Date |
|---|----------------|--------|-----------|------|---------------|----------------|-----------|-----------|------|---------------------|--------------|
| 1 | Perchlorate    | 314.0  | 03W4284   | µg/L | 50.0          | 57.5           | 115       | 15        | ✓    | 85-115              | 08/28/2003   |
|   | Perchlorate    | 314.0  | 03W4284   | µg/L | 50.0          | 57.4           | 115       | 15        | ✓    | 85-115              | 08/28/2003   |
|   | Perchlorate    | 314.0  | 03W4284   | µg/L | 50.0          | 57.5           | 115       | 15        | ✓    | 85-115              | 08/28/2003   |
|   | Perchlorate    | 314.0  | 03W4284   | µg/L | 50.0          | 56.7           | 113       | 13        | ✓    | 85-115              | 08/28/2003   |
| 2 | Chromium (VI)  | 7196   | 03W4245   | mg/L | 0.25          | 0.247          | 99        | -1        | ✓    | 90-110              | 08/26/2003   |
|   | Chromium (VI)  | 7196   | 03W4245   | mg/L | 0.25          | 0.243          | 97        | -3        | ✓    | 90-110              | 08/26/2003   |

## Chromium (VI) ( 7196 ) Worksheet

085

Matrix: W

[ Holding Time: 24 hours!! ]

Test Date: 8/26/03 Analyst: [Signature]

ot #: Reagent Water

Diphenylcazide solution

Test Time: 1:20:00

SOP: G-22

| Calibration | STD Lot # | $C_{std} \times V_{std} / V_f = C_i$ | $A_i$ | $RF_i = A_i / C_i$ | Calibration results   | Note       |
|-------------|-----------|--------------------------------------|-------|--------------------|-----------------------|------------|
| STD-1       | W-        | x / = mg/L                           |       |                    | Least Square [RF]=    | Cal. Code: |
| STD-2       | W-        | x / = mg/L                           |       |                    | Average RF=           |            |
| STD-3       | W-        | x / = mg/L                           |       |                    | C.C.=0.9999 (> 0.995) |            |
| STD-4       | W-        | x / = mg/L                           |       |                    | RSD= % (< 15%)        |            |
| STD-5       | W-        | x / = mg/L                           |       |                    | Ref. page             |            |
| STD-6       | W-        | x / = mg/L                           |       |                    | $A = -0.00140846C$    |            |

| Analysis Type | Sample ID or Lot # | Samp. Amnt X <sub>0</sub> (g or mL) | Dilu./Ext X/X <sub>0</sub> =f <sub>1</sub> | Treat. Ratio V/X=f <sub>2</sub> | 540 nm A | Concentration C'=A/RF | C (Sample) C=f <sub>1</sub> f <sub>2</sub> C' | Anomaly Note |
|---------------|--------------------|-------------------------------------|--------------------------------------------|---------------------------------|----------|-----------------------|-----------------------------------------------|--------------|
| CCV           | Lot: W- 7757       | Expected Conc.: x                   | /                                          | = 0.25 mg/L                     | 0.208    | 0.247 mg/L            | REC. %                                        | 90-110 %     |
| Method Blank  | Bl. Lot: T1117     |                                     | /X <sub>0</sub> = 1                        | 95.0/ =                         | 0.000    | mg/L                  | 0.00 ppm                                      |              |
| LCS1          | Bl. Lot: ✓         |                                     | /X <sub>0</sub> =                          | 95.0/ =                         | 0.198    | mg/L                  | 0.235 ppm                                     |              |
| Sample-1      | 4854-1             |                                     | /X <sub>0</sub> =                          | 95.0/ =                         | 0.003    | mg/L                  | 0.005 ppm                                     |              |
| MS on S-1     | 3                  |                                     | /X <sub>0</sub> =                          | 95.0/ =                         | 0.183    | mg/L                  | 0.217 ppm                                     |              |
| MSD on S-1    | 3                  |                                     | /X <sub>0</sub> =                          | 95.0/ =                         | 0.188    | mg/L                  | 0.223 ppm                                     |              |
| Sample 2      | 2                  |                                     | /X <sub>0</sub> =                          | 95.0/ =                         | 0.004    | mg/L                  | 0.006 ppm                                     |              |
| Sample 3      | 3                  |                                     | /X <sub>0</sub> = ✓                        | 95.0/ =                         | 0.002    | mg/L                  | 0.004 ppm                                     |              |
| Sample 4      |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 5      |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 6      |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 7      |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 8      |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 9      |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 10     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Blank         | Lot:               |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| LCS2          | Bl. Lot: T1117     |                                     | /X <sub>0</sub> = 1                        | 95.0/ =                         | 0.194    | mg/L                  | 0.230 ppm                                     |              |
| Sample 11     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 12     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 13     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 14     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 15     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 16     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 17     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 18     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 19     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| Sample 20     |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         |          | mg/L                  | ppm                                           |              |
| MTX Dup.      |                    |                                     | /X <sub>0</sub> =                          | 95.0/ =                         | 0.205    | 0.243 mg/L            | ppm                                           |              |

| Type | STD Lot # | $C_{STD} (\mu\text{g/mL}) \times V_{STD} (\text{mL}) / X (\text{g or mL}) = T$ | Spike Rec. | Ctl Limit (W/S)   | PQL/MDL (in ppm) |
|------|-----------|--------------------------------------------------------------------------------|------------|-------------------|------------------|
| MS   | W- 7757   | x / = 0.25 ppm                                                                 | %          | 80-120 %/80-120 % | PQL(w) 0.01      |
| MSD  | W- ✓      | x / = ppm                                                                      | %          | .. ..             | PQL(s) 0.05      |
| LCS  | W- 7853   | x / = ppm                                                                      | %          | 80-120 %/80-120 % | MDL(w) 0.005     |
| LCSD | W- ✓      | x / = ppm                                                                      | %          | .. ..             | MDL(s) 0.025     |

# AP & Ch Laboratory

Magnolia Ave. Chino CA 91710  
(909) 590-1828 Fax: (909) 590-1498

## Chromium (VI) ( 7196 ) Worksheet

Batch # 12 Matrix: W & S [ Holding Time: 24 hours!! ]

Test Date: 7/28/03 Analyst: BL

Lot #: Reagent Water AL 7-28-03  
Diphenylcazide solution

Test Time: \_\_\_\_\_ SOP: G

| Calibration | STD Lot #      | $C_{std} \times V_{std} / V_f = C_i$ | $A_i$ | $RF_i = A_i / C_i$ | Calibration results                | Note       |
|-------------|----------------|--------------------------------------|-------|--------------------|------------------------------------|------------|
| STD-1       | W- <u>7257</u> | x / = 0.00 mg/L                      | 0.000 |                    | Least Square [RF]=                 | Cal. Code: |
| STD-2       | W-             | x / = 0.00 mg/L                      | 0.007 |                    | Average RF=                        |            |
| STD-3       | W-             | x / 0.075 = 0.00 mg/L                | 0.017 |                    | C.C. <u>0.999</u> ( $\geq 0.995$ ) |            |
| STD-4       | W-             | x / = 0.05 mg/L                      | 0.107 |                    | RSD= _____ (%) ( $\leq 15\%$ )     |            |
| STD-5       | W-             | x / = 0.10 mg/L                      | 0.212 |                    | Ref. page                          |            |
| STD-6       | W-             | x / = 0.50 mg/L                      | 0.420 |                    | $A = -0.001 + 0.846C$              |            |

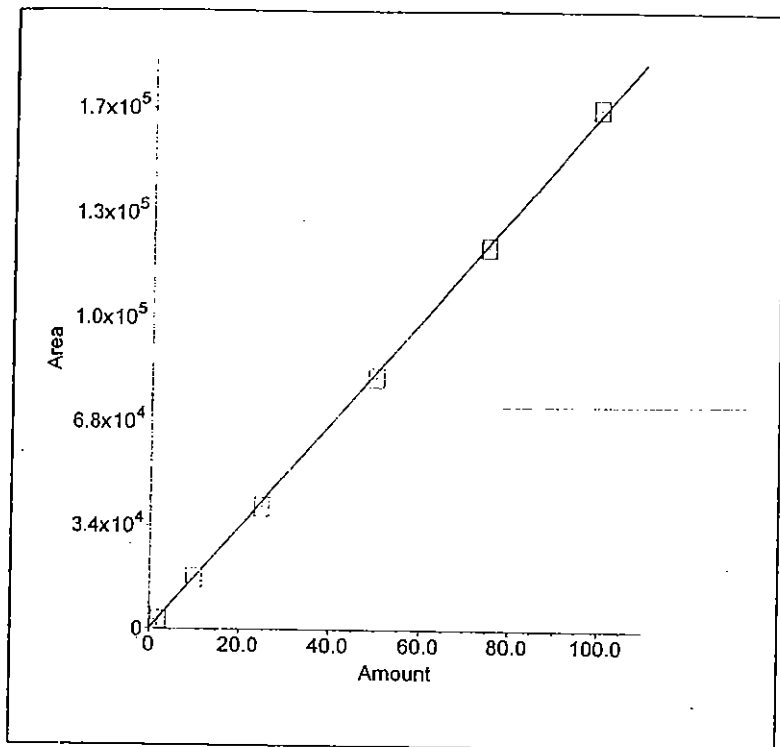
| Analysis Type | Sample ID or Lot #  | Samp. Amnt $X_0$ (g or mL)            | Dilu./Ext $X/X_0 = f_1$ | Treat. Ratio $V/X = f_2$ | 540 nm $A$ | Concentration $C' = A / RF$ | C (Sample) $C = f_1 f_2 C'$ | Anom. Note |
|---------------|---------------------|---------------------------------------|-------------------------|--------------------------|------------|-----------------------------|-----------------------------|------------|
| CCV           | Lot: W- <u>7853</u> | Expected Conc.: x                     | / = 0.05 mg/L           |                          | 0.218      | 0.259 mg/L                  | REC. %                      | 90-110     |
| Method Blank  | Bl. Lot:            |                                       | $/X_0 =$                | 95.0/ =                  | 0.000      | 0.000 mg/L                  | ppm                         |            |
| LCS1          | Bl. Lot:            |                                       | $/X_0 =$                | 95.0/ =                  | 0.000      | 0.000 mg/L                  | ppm                         |            |
| Sample-1      | <u>4177-37</u>      | 1 mL $\rightarrow$ 100 mL $X_0 = 1$   | 95.0/ =                 | 2                        | 0.290      | 0.689 mg/L                  | ppm                         |            |
| MS on S-1     | <u>37</u>           | 0.5 mL $\rightarrow$ 100 mL $X_0 =$   | 95.0/ =                 | 2                        | 0.287      | 0.682 mg/L                  | ppm                         |            |
| MSD on S-1    | <u>4175-15</u>      | 10.0 g $\rightarrow$ 500 mL $X_0 = 5$ | 95.0/ =                 | 10                       | 0.050      | 3.04 mg/L                   | ppm                         | report     |
| Sample 2      | <u>15</u>           |                                       | $/X_0 =$                | 95.0/ =                  | 0.247      | 2.94 mg/L                   | ppm                         | report     |
| Sample 3      |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 4      |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 5      |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 6      |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 7      |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 8      |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 9      |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 10     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Blank         | Lot:                |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| LCS2          | Bl. Lot:            |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 11     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 12     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 13     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 14     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 15     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 16     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 17     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 18     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 19     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| Sample 20     |                     |                                       | $/X_0 =$                | 95.0/ =                  |            | mg/L                        | ppm                         |            |
| MTX Dup.      | <u>0.248</u>        |                                       | $/X_0 =$                | 95.0/ =                  | 0.248      | 0.259 mg/L                  | ppm                         |            |

| Type | STD Lot # | $C_{STD} (\mu\text{g/mL}) \times V_{STD} (\text{mL}) / X (\text{g or mL}) = T$ | Spike Rec. | Ctl Limit (W/S)   | PQL/MDL (in ppm) |
|------|-----------|--------------------------------------------------------------------------------|------------|-------------------|------------------|
| MS   | W-        | x / = ppm                                                                      | %          | 80-120 %/80-120 % | PQL(w) 0.01      |
| MSD  | W-        | x / = ppm                                                                      | %          | .. ..             | PQL(s) 0.05      |
| LCS  | W-        | x / = ppm                                                                      | %          | 80-120 %/80-120 % | MDL(w) 0.005     |
| LCSD | W-        | x / = ppm                                                                      | %          | .. ..             | MDL(s) 0.035     |

| Line | Sample                        | Sample Type | Level | Method       | Data File                       | Volume | Dilution | Weight |
|------|-------------------------------|-------------|-------|--------------|---------------------------------|--------|----------|--------|
| 1    | ccv 50ppb w8082               | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 q01      | 1      | 1        | 1      |
| 2    | ##03w4284k ipc 25ppb w8032    | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 ipc25ppb | 1      | 1        | 1      |
| 3    | lcs 25ppb w8087               | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 l01      | 1      | 1        | 1      |
| 4    | Lcsd 25PPB W8033a             | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 j01      | 1      | 1        | 1      |
| 5    | ICCS 4ppb w8088               | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 iccs4ppb | 1      | 1        | 1      |
| 6    | mb                            | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 k01      | 1      | 1        | 1      |
| 7    | 4854-03 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4854-03        | 1      | 1        | 1      |
| 8    | 4857-01 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4857-01        | 1      | 1        | 1      |
| 9    | 4878-02 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4878-02        | 1      | 1        | 1      |
| 10   | 4854-03 md f=25               | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 d01      | 1      | 25       | 1      |
| 11   | 4873-01 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4873-01        | 1      | 1        | 1      |
| 12   | ccv 50ppb w8082               | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 q02      | 1      | 1        | 1      |
| 13   | ccb                           | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 ccb      | 1      | 1        | 1      |
| 14   | 4857-01 ms 25ppb f=1 w8033b   | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 m01      | 1      | 1        | 1      |
| 15   | 4857-01 msd 25ppb f=1 w8033b  | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 n01      | 1      | 1        | 1      |
| 16   | 4854-01 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4854-01        | 1      | 1        | 1      |
| 17   | 4854-02 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4854-02        | 1      | 1        | 1      |
| 18   | 4842-01 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4842-01        | 1      | 1        | 1      |
| 19   | 4842-02 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4842-02        | 1      | 1        | 1      |
| 20   | 4842-03 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4842-03        | 1      | 1        | 1      |
| 21   | 4857-02 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4857-02        | 1      | 1        | 1      |
| 22   | ccv 50ppb w8082               | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 q03      | 1      | 1        | 1      |
| 23   | ccb                           | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 ccb      | 1      | 1        | 1      |
| 24   | 4857-03 f=1                   | Sample      |       | e314-011.met | c:\data\03w4284k\4857-03        | 1      | 1        | 1      |
| 25   | 4873-01 f=10                  | Sample      |       | e314-011.met | c:\data\03w4284k\4873-01        | 1      | 10       | 1      |
| 26   | 4854-01 f=50                  | Sample      |       | e314-011.met | c:\data\03w4284k\4854-01        | 1      | 50       | 1      |
| 27   | 4854-02 f=4                   | Sample      |       | e314-011.met | c:\data\03w4284k\4854-02        | 1      | 4        | 1      |
| 28   | 4854-03 ms 25ppb f=25 w8033b  | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 m02      | 1      | 25       | 1      |
| 29   | 4854-03 msd 25ppb f=25 w8033b | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 n02      | 1      | 25       | 1      |
| 30   | 4878-02 f=1 spike 3ppb        | Sample      |       | e314-011.met | c:\data\03w4284k\spike 3ppb     | 1      | 1        | 1      |
| 31   | 4857-02 f=1 spike 4ppb        | Sample      |       | e314-011.met | c:\data\03w4284k\spike 4ppb     | 1      | 1        | 1      |
| 32   | ccv 50ppb w8082               | Sample      |       | e314-011.met | c:\data\03w4284k\w4284 q04      | 1      | 1        | 1      |
| 33   |                               | Sample      |       | aastopcl.met |                                 | 1      | 1        | 1      |

Analyst W. W  
Date 8/28/03  
Instrument IC-K

1. Component: perchlorate  
Standard: External Fit Type: Linear  
Origin: Force Calibration: Area  
 $r^2 = 0.999492$   
Amt = 0.0005893 \* Resp + 0



Calibration : 7 points , 0, 2, 10, 25, 50, 75, 100 ppb

Analyst C. W  
Date 03/12/03  
Instrument LC-1c

| Line | Sample                         | Sample Type | Level | Method       | Data File                         | Volume | Dilution |
|------|--------------------------------|-------------|-------|--------------|-----------------------------------|--------|----------|
| 1    | Cal blank                      | Sample      |       | e314-011.met | c:\data\314-011\mb_001.dxd        | 1      | 1        |
| 2    | cal standard 2ppb W7827a       | Sample      |       | e314-011.met | c:\data\314-011\std-2pb_002.dxd   | 1      | 1        |
| 3    | cal standard 4ppb W7827b       | Sample      |       | e314-011.met | c:\data\314-011\std-4pb_003.dxd   | 1      | 1        |
| 4    | cal standard 10ppb W7827c      | Sample      |       | e314-011.met | c:\data\314-011\std-10pb_004.dxd  | 1      | 1        |
| 5    | cal standard 25ppb W7827d      | Sample      |       | e314-011.met | c:\data\314-011\std-25pb_005.dxd  | 1      | 1        |
| 6    | cal standard 50ppb W7827e      | Sample      |       | e314-011.met | c:\data\314-011\std-50pb_006.dxd  | 1      | 1        |
| 7    | cal standard 75ppb W7827f      | Sample      |       | e314-011.met | c:\data\314-011\std-75pb_007.dxd  | 1      | 1        |
| 8    | cal standard 100ppb W7827g     | Sample      |       | e314-011.met | c:\data\314-011\std-100pb_008.dxd | 1      | 1        |
| 9    | ICV 50 ppb w7828a              | Sample      |       | e314-011.met | c:\data\314-011\icv-50pb_009.dxd  | 1      | 1        |
| 10   | icb                            | Sample      |       | e314-011.met | c:\data\314-011\icb_010.dxd       | 1      | 1        |
| 11   | anion 100pm each ,25pb CLO4    | Sample      |       | e314-011.met | c:\data\314-011\mct-100_011.dxd   | 1      | 1        |
| 12   | anion 200pm each ,25pb CLO4    | Sample      |       | e314-011.met | c:\data\314-011\mct-200_012.dxd   | 1      | 1        |
| 13   | anion 300pm each ,25pb CLO4    | Sample      |       | e314-011.met | c:\data\314-011\mct-300_013.dxd   | 1      | 1        |
| 14   | anion 400pm each ,25pb CLO4    | Sample      |       | e314-011.met | c:\data\314-011\mct-400_014.dxd   | 1      | 1        |
| 15   | anion 500pm each ,25pb CLO4    | Sample      |       | e314-011.met | c:\data\314-011\mct-500_015.dxd   | 1      | 1        |
| 16   | anion 600pm each ,25pb CLO4    | Sample      |       | e314-011.met | c:\data\314-011\mct-600_016.dxd   | 1      | 1        |
| 17   | anion 800pm each ,25pb CLO4    | Sample      |       | e314-011.met | c:\data\314-011\mct-800_017.dxd   | 1      | 1        |
| 18   | anion 1000pm each ,25pb CLO4   | Sample      |       | e314-011.met | c:\data\314-011\mct-1000_018.dxd  | 1      | 1        |
| 19   | anion 400pm each 2pb           | Sample      |       | e314-011.met | c:\data\314-011\ipc-2pb_019.dxd   | 1      | 1        |
| 20   | anion 400pm each 4pb           | Sample      |       | e314-011.met | c:\data\314-011\ipc-4pb_020.dxd   | 1      | 1        |
| 21   | anion 400pm each 25pb          | Sample      |       | e314-011.met | c:\data\314-011\ipc-25pb_021.dxd  | 1      | 1        |
| 22   | ICV 50 ppb                     | Sample      |       | e314-011.met | c:\data\314-011\ccv-50pb          | 1      | 1        |
| 23   | MDL 4pb                        | Sample      |       | e314-011.met | c:\data\314-011\mdl-02_023.dxd    | 1      | 1        |
| 24   | MDL 4pb                        | Sample      |       | e314-011.met | c:\data\314-011\mdl-03_024.dxd    | 1      | 1        |
| 25   | MDL 4pb                        | Sample      |       | e314-011.met | c:\data\314-011\mdl-04            | 1      | 1        |
| 26   | MDL 4pb                        | Sample      |       | e314-011.met | c:\data\314-011\mdl-05            | 1      | 1        |
| 27   | MDL 4pb                        | Sample      |       | e314-011.met | c:\data\314-011\mdl-06            | 1      | 1        |
| 28   | MDL 4pb                        | Sample      |       | e314-011.met | c:\data\314-011\mdl-07            | 1      | 1        |
| 29   | MDL 4pb                        | Sample      |       | e314-011.met | c:\data\314-011\mdl-08            | 1      | 1        |
| 30   | IDP and IDA 25pb               | Sample      |       | e314-011.met | c:\data\314-011\idap-25pb         | 1      | 1        |
| 31   | IDP and IDA 25pb               | Sample      |       | e314-011.met | c:\data\314-011\idap-25pb         | 1      | 1        |
| 32   | IDP and IDA 25pb               | Sample      |       | e314-011.met | c:\data\314-011\idap-25pb         | 1      | 1        |
| 33   | IDP and IDA 25pb               | Sample      |       | e314-011.met | c:\data\314-011\idap-25pb         | 1      | 1        |
| 34   | IDP and IDA 25pb               | Sample      |       | e314-011.met | c:\data\314-011\idap-25pb         | 1      | 1        |
| 35   | IDP and IDA 25pb               | Sample      |       | e314-011.met | c:\data\314-011\idap-25pb         | 1      | 1        |
| 36   | IDP and IDA 25pb               | Sample      |       | e314-011.met | c:\data\314-011\idap-25pb         | 1      | 1        |
| 37   | MCT anion 800pm each, 25pbCLO4 | Sample      |       | e314-011.met | c:\data\314-011\ipc-25pb          | 1      | 1        |
| 38   | MCT anion 800pm each, 25pbCLO4 | Sample      |       | e314-011.met | c:\data\314-011\ipc-25pb          | 1      | 1        |
| 39   | MCT anion 800pm each, 4pbCLO4  | Sample      |       | e314-011.met | c:\data\314-011\ipc-4pb           | 1      | 1        |
| 40   | MCT anion 800pm each, 4pbCLO4  | Sample      |       | e314-011.met | c:\data\314-011\ipc-4pb           | 1      | 1        |
| 41   | MDL 20pb soil                  | Sample      |       | e314-011.met | c:\data\314-011\mdl-s01           | 1      | 5        |
| 42   | MDL 20pb soil                  | Sample      |       | e314-011.met | c:\data\314-011\mdl-s02           | 1      | 5        |
| 43   | MDL 20pb soil                  | Sample      |       | e314-011.met | c:\data\314-011\mdl-s03           | 1      | 5        |
| 44   | MDL 20pb soil                  | Sample      |       | e314-011.met | c:\data\314-011\mdl-s04           | 1      | 5        |
| 45   | MDL 20pb soil                  | Sample      |       | e314-011.met | c:\data\314-011\mdl-s05           | 1      | 5        |
| 46   | MDL 20pb soil                  | Sample      |       | e314-011.met | c:\data\314-011\mdl-s06           | 1      | 5        |
| 47   | MDL 20pb soil                  | Sample      |       | e314-011.met | c:\data\314-011\mdl-s07           | 1      | 5        |
| 48   | standard 25ppb W7827d          | Sample      |       | e314-011.met | c:\data\314-011\std-25pb          | 1      | 1        |
| 49   | anion 100pm each,4pb CLO4      | Sample      |       | e314-011.met | c:\data\314-011\lam-100-4pb       | 1      | 1        |
| 50   | anion 200pm each ,4pb CLO4     | Sample      |       | e314-011.met | c:\data\314-011\lam-200-4pb       | 1      | 1        |
| 51   | anion 300pm each ,4pb CLO4     | Sample      |       | e314-011.met | c:\data\314-011\lam-300-4pb       | 1      | 1        |
| 52   | anion 100pm each,2pb CLO4      | Sample      |       | e314-011.met | c:\data\314-011\lam-100-2pb       | 1      | 1        |
| 53   | anion 200pm each,2pb CLO4      | Sample      |       | e314-011.met | c:\data\314-011\lam-200-2pb       | 1      | 1        |
| 54   | anion 300pm each,2pb CLO4      | Sample      |       | e314-011.met | c:\data\314-011\lam-300-2pb       | 1      | 1        |
| 55   | 1982-01 B S.C 4450us/cm        | Sample      |       | e314-011.met | c:\data\314-011\1982-01           | 1      | 1        |
| 56   | 1982-01 B S.C 4450us/cm        | Sample      |       | e314-011.met | c:\data\314-011\1982-01           | 1      | 2        |
| 57   | 1982-02 f=10                   | Sample      |       | e314-011.met | c:\data\314-011\1982-02_057.dxd   | 1      | 10       |
| 58   |                                | Sample      |       | aastopcl.met |                                   | 1      | 1        |

| Line | Weight | Int. Std. | Comment |
|------|--------|-----------|---------|
| 1    | 1      | 1         |         |
| 2    | 1      | 1         |         |
| 3    | 1      | 1         |         |
| 4    | 1      | 1         |         |
| 5    | 1      | 1         |         |
| 6    | 1      | 1         |         |
| 7    | 1      | 1         |         |
| 8    | 1      | 1         |         |
| 9    | 1      | 1         |         |
| 10   | 1      | 1         |         |
| 11   | 1      | 1         |         |
| 12   | 1      | 1         |         |
| 13   | 1      | 1         |         |
| 14   | 1      | 1         |         |
| 15   | 1      | 1         |         |
| 16   | 1      | 1         |         |
| 17   | 1      | 1         |         |
| 18   | 1      | 1         |         |
| 19   | 1      | 1         |         |
| 20   | 1      | 1         |         |
| 21   | 1      | 1         |         |
| 22   | 1      | 1         |         |
| 23   | 1      | 1         |         |
| 24   | 1      | 1         |         |
| 25   | 1      | 1         |         |
| 26   | 1      | 1         |         |
| 27   | 1      | 1         |         |
| 28   | 1      | 1         |         |
| 29   | 1      | 1         |         |
| 30   | 1      | 1         |         |
| 31   | 1      | 1         |         |
| 32   | 1      | 1         |         |
| 33   | 1      | 1         |         |
| 34   | 1      | 1         |         |
| 35   | 1      | 1         |         |
| 36   | 1      | 1         |         |
| 37   | 1      | 1         |         |
| 38   | 1      | 1         |         |
| 39   | 1      | 1         |         |
| 40   | 1      | 1         |         |
| 41   | 1      | 1         |         |
| 42   | 1      | 1         |         |
| 43   | 1      | 1         |         |
| 44   | 1      | 1         |         |
| 45   | 1      | 1         |         |
| 46   | 1      | 1         |         |
| 47   | 1      | 1         |         |
| 48   | 1      | 1         |         |
| 49   | 1      | 1         |         |
| 50   | 1      | 1         |         |
| 51   | 1      | 1         |         |
| 52   | 1      | 1         |         |
| 53   | 1      | 1         |         |
| 54   | 1      | 1         |         |
| 55   | 1      | 1         |         |
| 56   | 1      | 1         |         |
| 57   | 1      | 1         |         |
| 58   | 1      | 1         |         |

Default Method Path: C:\PEAKNET\METHOD

Default Data Path: C:\DATA\03W1286K

Comment:

Remark:

Condition information:

1. Column

Separator column: AS16 4mm

Guard column: AS16 4mm

2. Eluent: NaOH 38mM

3. Flow rate: 1.2mL/min

4. Suppressor: ASRS-ULTRA 4mm

5. Detector: CD20

6. Analyst: Charles Wu and Wei Wang

7. Date: 03 / 12 / 2003

8. Instrument: IC-K DX-500 Dionex



## Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710

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

Sep 02, 2003

GEOFON, Inc.

Attention: Brad Shojaee

22632 Golden Spring Dr Ste 270

Diamond Bar CA 91765

Dear Brad,

This package contains samples in our Service ID 03-4534 and your project : 04-4428.10 JPL

Enclosed please find:

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

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

Respectfully submitted,

Regina Kirakozova

Associate QA/QC Director

Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

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

Submitted to:

GEOFON, Inc.

Attention: Brad Shojaei.

22632 Golden Spring Dr Ste 270

Diamond Bar CA 91765

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

# APCL Analytical Report

Service ID #: 801-034534

Received: 08/07/03

Collected by: L. Williamson

Extracted: N/A

Collected on: 08/07/03

Tested: 08/07-11/03

Reported: 08/18/03

Sample Description: Water from MW-11,24,14.

Project Description: 04-4428.10 JPL

## Analysis of Water Samples

| Component Analyzed                | Method | Unit | PQL | Analysis Result |            |            |            |
|-----------------------------------|--------|------|-----|-----------------|------------|------------|------------|
|                                   |        |      |     | EB-6-8-7-03     | MW-11-1    | MW-11-2    | MW-11-3    |
|                                   |        |      |     | 03-04534-1      | 03-04534-2 | 03-04534-3 | 03-04534-4 |
| Dilution Factor                   |        |      |     | 1               | 1          | 1          | 1          |
| <b>PERCHLORATE</b>                | 314.0  | µg/L | 4   | <4              | <4         | <4         | <4         |
| <b>VOLATILE ORGANIC COMPOUNDS</b> |        |      |     |                 |            |            |            |
| Dilution Factor                   |        |      |     | 1               | 1          | 1          | 1          |
| BENZENE                           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOBENZENE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOCHLOROMETHANE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMODICHLOROMETHANE              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOFORM                         | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOMETHANE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| N-BUTYLBENZENE                    | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| SEC-BUTYLBENZENE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TERT-BUTYLBENZENE                 | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 2-BUTANONE                        | 524.2  | µg/L | 10  | <10             | <10        | <10        | <10        |
| CARBON TETRACHLORIDE              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLOROBENZENE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLORODIBROMOMETHANE              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLOROETHANE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLOROFORM                        | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLOROMETHANE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 2-CHLOROTOLUENE                   | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 4-CHLOROTOLUENE                   | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DIBROMO-3-CHLOROPROPANE       | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DIBROMOETHANE (EDB)           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| DIBROMOMETHANE                    | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DICHLOROBENZENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,3-DICHLOROBENZENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,4-DICHLOROBENZENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| DICHLORODIFLUOROMETHANE           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1-DICHLOROETHANE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DICHLOROETHANE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1-DICHLOROETHENE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CIS-1,2-DICHLOROETHENE            | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |

## APCL Analytical Report

| Component Analyzed                      | Method | Unit | PQL | Analysis Result |            |            |            |
|-----------------------------------------|--------|------|-----|-----------------|------------|------------|------------|
|                                         |        |      |     | EB-6-8-7-03     | MW-11-1    | MW-11-2    | MW-11-3    |
|                                         |        |      |     | 03-04534-1      | 03-04534-2 | 03-04534-3 | 03-04534-4 |
| TRANS-1,2-DICHLOROETHENE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DICHLOROPROPANE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,3-DICHLOROPROPANE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 2,2-DICHLOROPROPANE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1-DICHLOROPROPENE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CIS-1,3-DICHLOROPROPENE                 | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TRANS-1,3-DICHLOROPROPENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| ETHYLBENZENE                            | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| HEXACHLOROBUTADIENE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| ISOPROPYLBENZENE (CUMENE)               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| P-ISOPROPYLTOLUENE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| METHYLENE CHLORIDE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| METHYL-T-BUTYL ETHER (MTBE)             | 524.2  | µg/L | 1   | <1              | <1         | <1         | <1         |
| 4-METHYL-2-PENTANONE (MIBK)             | 524.2  | µg/L | 10  | <10             | <10        | <10        | <10        |
| NAPHTHALENE                             | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| N-PROPYLBENZENE                         | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| STYRENE                                 | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,1,2-TETRACHLOROETHANE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,2,2-TETRACHLOROETHANE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TETRACHLOROETHENE                       | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TOLUENE                                 | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,3-TRICHLOROBENZENE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,4-TRICHLOROBENZENE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,1-TRICHLOROETHANE                   | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,2-TRICHLOROETHANE                   | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TRICHLOROETHENE                         | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TRICHLOROFLUOROMETHANE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,3-TRICHLOROPROPANE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,2,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,4-TRIMETHYLBENZENE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,3,5-TRIMETHYLBENZENE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| VINYL CHLORIDE                          | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| O-XYLENE                                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| M/P-XYLENE                              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |

## APCL Analytical Report

| Component Analyzed                | Method | Unit | PQL | Analysis Result |            |            |            |
|-----------------------------------|--------|------|-----|-----------------|------------|------------|------------|
|                                   |        |      |     | MW-11-4         | MW-14-4    | MW-14-5    | MW-24-1    |
|                                   |        |      |     | 03-04534-5      | 03-04534-6 | 03-04534-7 | 03-04534-8 |
| Dilution Factor                   |        |      |     | 1               | 1          | 1          | 100        |
| <b>PERCHLORATE</b>                | 314.0  | µg/L | 4   | <4              | 2.3J       | <4         | 2,450      |
| <b>VOLATILE ORGANIC COMPOUNDS</b> |        |      |     |                 |            |            |            |
| Dilution Factor                   |        |      |     | 1               | 1          | 1          | 1          |
| BENZENE                           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOBENZENE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOCHLOROMETHANE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMODICHLOROMETHANE              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOFORM                         | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| BROMOMETHANE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 2-BUTANONE                        | 524.2  | µg/L | 10  | <10             | <10        | <10        | <10        |
| N-BUTYLBENZENE                    | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| SEC-BUTYLBENZENE                  | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TERT-BUTYLBENZENE                 | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CARBON TETRACHLORIDE              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | 22.1       |
| CHLOROBENZENE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLORODIBROMOMETHANE              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLOROETHANE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CHLOROFORM                        | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | 10.2       |
| CHLOROMETHANE                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 2-CHLOROTOLUENE                   | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 4-CHLOROTOLUENE                   | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DIBROMO-3-CHLOROPROPANE       | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DIBROMOETHANE (EDB)           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| DIBROMOMETHANE                    | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DICHLOROBENZENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,3-DICHLOROBENZENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,4-DICHLOROBENZENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| DICHLORODIFLUOROMETHANE           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1-DICHLOROETHANE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DICHLOROETHANE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1-DICHLOROETHENE                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | 0.8        |
| CIS-1,2-DICHLOROETHENE            | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TRANS-1,2-DICHLOROETHENE          | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2-DICHLOROPROPANE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,3-DICHLOROPROPANE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 2,2-DICHLOROPROPANE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1-DICHLOROPROPENE               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| CIS-1,3-DICHLOROPROPENE           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TRANS-1,3-DICHLOROPROPENE         | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| ETHYLBENZENE                      | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |

# APCL Analytical Report

| Component Analyzed                                    | Method | Unit | PQL | Analysis Result |            |            |            |
|-------------------------------------------------------|--------|------|-----|-----------------|------------|------------|------------|
|                                                       |        |      |     | MW-11-4         | MW-14-4    | MW-14-5    | MW-24-1    |
|                                                       |        |      |     | 03-04534-5      | 03-04534-6 | 03-04534-7 | 03-04534-8 |
| HEXACHLOROBUTADIENE                                   | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| ISOPROPYLBENZENE (CUMENE)                             | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| P-ISOPROPYLTOLUENE                                    | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 4-METHYL-2-PENTANONE (MIBK)                           | 524.2  | µg/L | 10  | 0.3J            | <10        | <10        | 0.3J       |
| METHYLENE CHLORIDE                                    | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | 0.4J       |
| METHYL-T-BUTYL ETHER (MTBE)                           | 524.2  | µg/L | 1   | <1              | <1         | <1         | <1         |
| NAPHTHALENE                                           | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| N-PROPYLBENZENE                                       | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| STYRENE                                               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,1,2-TETRACHLOROETHANE                             | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,2,2-TETRACHLOROETHANE                             | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TETRACHLOROETHENE                                     | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | 1.5        |
| TOLUENE                                               | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,3-TRICHLOROBENZENE                                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,4-TRICHLOROBENZENE                                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,1-TRICHLOROETHANE                                 | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,2-TRICHLOROETHANE                                 | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| TRICHLOROETHENE                                       | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | 4.8        |
| TRICHLOROFLUOROMETHANE                                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,3-TRICHLOROPROPANE                                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,1,2,2,3,3-HEPTACHLORO-1,2,2,3,3,3-HEPTACHLOROETHANE | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,2,4-TRIMETHYLBENZENE                                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| 1,3,5-TRIMETHYLBENZENE                                | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| VINYL CHLORIDE                                        | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| O-XYLENE                                              | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |
| M/P-XYLENE                                            | 524.2  | µg/L | 0.5 | <0.5            | <0.5       | <0.5       | <0.5       |

| Component Analyzed | Method | Unit | PQL | Analysis Result |             |             |
|--------------------|--------|------|-----|-----------------|-------------|-------------|
|                    |        |      |     | MW-24-2         | MW-24-3     | TB-6-8-7-03 |
|                    |        |      |     | 03-04534-9      | 03-04534-10 | 03-04534-12 |
| Dilution Factor    |        |      |     | 5               | 1           | 1           |
| PERCHLORATE        | 314.0  | µg/L | 4   | 148             | <4          | -           |

## APCL Analytical Report

| Component Analyzed          | Method | Unit | PQL | Analysis Result       |                        |                            |
|-----------------------------|--------|------|-----|-----------------------|------------------------|----------------------------|
|                             |        |      |     | MW-24-2<br>03-04534-9 | MW-24-3<br>03-04534-10 | TB-6-8-7-03<br>03-04534-12 |
| VOLATILE ORGANIC COMPOUNDS  |        |      |     |                       |                        |                            |
| Dilution Factor             |        |      |     | 1                     | 1                      | 1                          |
| BENZENE                     | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| BROMOBENZENE                | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| BROMOCHLOROMETHANE          | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| BROMODICHLOROMETHANE        | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| BROMOFORM                   | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| BROMOMETHANE                | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| N-BUTYLBENZENE              | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| SEC-BUTYLBENZENE            | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| TERT-BUTYLBENZENE           | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 2-BUTANONE                  | 524.2  | µg/L | 10  | <10                   | <10                    | <10                        |
| CARBON TETRACHLORIDE        | 524.2  | µg/L | 0.5 | 4.7                   | <0.5                   | <0.5                       |
| CHLOROBENZENE               | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| CHLORODIBROMOMETHANE        | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| CHLOROETHANE                | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| CHLOROFORM                  | 524.2  | µg/L | 0.5 | 2.4                   | <0.5                   | <0.5                       |
| CHLOROMETHANE               | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 2-CHLOROTOLUENE             | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 4-CHLOROTOLUENE             | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,2-DIBROMO-3-CHLOROPROPANE | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,2-DIBROMOETHANE (EDB)     | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| DIBROMOMETHANE              | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,2-DICHLOROBENZENE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,3-DICHLOROBENZENE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,4-DICHLOROBENZENE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| DICHLORODIFLUOROMETHANE     | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,1-DICHLOROETHANE          | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,2-DICHLOROETHANE          | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,1-DICHLOROETHENE          | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| CIS-1,2-DICHLOROETHENE      | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| TRANS-1,2-DICHLOROETHENE    | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,2-DICHLOROPROPANE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,3-DICHLOROPROPANE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 2,2-DICHLOROPROPANE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| 1,1-DICHLOROPROPENE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| CIS-1,3-DICHLOROPROPENE     | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| TRANS-1,3-DICHLOROPROPENE   | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| ETHYLBENZENE                | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| HEXACHLOROBUTADIENE         | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |
| ISOPROPYLBENZENE (CUMENE)   | 524.2  | µg/L | 0.5 | <0.5                  | <0.5                   | <0.5                       |

## APCL Analytical Report

| Component Analyzed                    | Method | Unit | PQL | Analysis Result |             |             |
|---------------------------------------|--------|------|-----|-----------------|-------------|-------------|
|                                       |        |      |     | MW-24-2         | MW-24-3     | TB-6-8-7-03 |
|                                       |        |      |     | 03-04534-9      | 03-04534-10 | 03-04534-12 |
| P-ISOPROPYLTOLUENE                    | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| METHYLENE CHLORIDE                    | 524.2  | µg/L | 0.5 | 0.3J            | < 0.5       | 1.3         |
| METHYL-T-BUTYL ETHER (MTBE)           | 524.2  | µg/L | 1   | < 1             | < 1         | < 1         |
| 4-METHYL-2-PENTANONE (MIBK)           | 524.2  | µg/L | 10  | < 10            | < 10        | < 10        |
| NAPHTHALENE                           | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| N-PROPYLBENZENE                       | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| STYRENE                               | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,1,1,2-TETRACHLOROETHANE             | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,1,2,2-TETRACHLOROETHANE             | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| TETRACHLOROETHENE                     | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| TOLUENE                               | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,2,3-TRICHLOROBENZENE                | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,2,4-TRICHLOROBENZENE                | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,1,1-TRICHLOROETHANE                 | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,1,2-TRICHLOROETHANE                 | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| TRICHLOROETHENE                       | 524.2  | µg/L | 0.5 | 0.8             | < 0.5       | < 0.5       |
| TRICHLOROFLUOROMETHANE                | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,2,3-TRICHLOROPROPANE                | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,2,4-TRIMETHYLBENZENE                | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| 1,3,5-TRIMETHYLBENZENE                | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| VINYL CHLORIDE                        | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| O-XYLENE                              | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |
| M/P-XYLENE                            | 524.2  | µg/L | 0.5 | < 0.5           | < 0.5       | < 0.5       |

| Component Analyzed | Method | Unit | PQL  | Analysis Result |            |            |
|--------------------|--------|------|------|-----------------|------------|------------|
|                    |        |      |      | MW-11-1         | MW-11-2    | MW-11-3    |
|                    |        |      |      | 03-04534-2      | 03-04534-3 | 03-04534-4 |
| CHROMIUM (VI)      | 7196   | mg/L | 0.01 | < 0.01          | < 0.01     | < 0.01     |

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

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

# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL  | Analysis Result |            |             |             |
|--------------------|--------|------|------|-----------------|------------|-------------|-------------|
|                    |        |      |      | MW-24-1         | MW-24-2    | MW-24-3     | MW-24-4     |
|                    |        |      |      | 03-04534-8      | 03-04534-9 | 03-04534-10 | 03-04534-11 |
| CHROMIUM (VI)      | 7196   | mg/L | 0.01 | < 0.01          | < 0.01     | < 0.01      | < 0.01      |

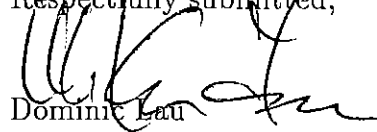
PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

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

J: Reported between PQL and MDL.

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

Respectfully submitted,



Dominic Lau  
Laboratory Director  
Applied P & Ch Laboratory

**Level C Data Package Deliverables**

# **General Information**

**Project: 04-4428.10 JPL**

**APCL Service ID: 03-4534**



**Applied P & Ch Laboratory**

**13760 Magnolia Ave. Chino, CA 91710**

**Telephone (909)590-1828**

**Fax (909)590-1498**

# Case Narrative

**Project: JPL/04-4428.10**

**For GEOFON, Inc.**

**APCL Service No: 03-4534**

## 1. Sample Identification

The sample identifications are listed in the following table:

| GEOFON, Inc. Sample ID | APCL Sample ID |
|------------------------|----------------|
| MW-11-4                | 03-04534-5     |
| MW-11-3                | 03-04534-4     |
| MW-11-2                | 03-04534-3     |
| MW-11-1                | 03-04534-2     |
| MW-24-4                | 03-04534-11    |
| MW-24-3                | 03-04534-10    |
| MW-24-2                | 03-04534-9     |
| MW-24-1                | 03-04534-8     |
| MW-14-5                | 03-04534-7     |
| MW-14-4                | 03-04534-6     |
| TB-6-8-7-03            | 03-04534-12    |
| EB-6-8-7-03            | 03-04534-1     |

## 2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds ),

7196 (Chromium (VI) ),

314.0 (Perchlorate, low level ),

## 3. Holding Time

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

## 4. Preservation

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

## 5. Tele-log

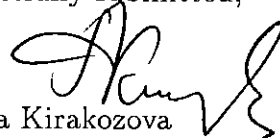
None

## 6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

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

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



**GEOFON**  
INCORPORATED

**CHAIN-OF-CUSTODY RECORD**

LABORATORY COPY

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

MW-11

2050

GEOFON LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Brad Shojane

(909) 396-7662

(909) 396-1455

—

Kenny Chan

GEOFON, INC.

PROJECT NAME:  
SPR 4W MON-3903

PROJECT LOCATION  
MW-11 (S. of Bl 277)

PROJECT NUMBER  
04-4428.10

LABORATORY PHONE  
(809) 590-1828

LABORATORY FAX  
(909) 590-1498

RECIPIENT NAME  
Tony Ford

PROJECT CONTACT  
J. Robinson

PROJECT PHONE NUMBER  
(714) 9208729

PROJECT FAX  
(909) 396-1455

LABORATORY ADDRESS  
13760 Magnolia Ave

CITY, STATE AND ZIP CODE  
Chino, CA 91710

ADDRESS  
22632 Golden Springs Dr. #370

PROJECT ADDRESS  
4800 Oak Grove Dr

CITY, STATE AND ZIP CODE  
Pasadena, CA.

CLIENT  
US NAVY SWOIR

CITY, STATE AND ZIP CODE  
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LABORATORY CONTACT  
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CITY, STATE AND ZIP CODE  
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LABORATORY CONTACT  
(909) 590-1498

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

**4534**



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

# CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-24

00571

| GEOFON, LAB COORDINATOR                                                                                                           |                   | LAB COORDINATOR'S PHONE                                    |        | LAB COORDINATOR'S FAX                    |           | LABORATORY SERVICE ID                                         |          | LABORATORY CONTACT                                                 |                      | MAIL REPORT (COMPANY NAME)   |  |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------|--------|------------------------------------------|-----------|---------------------------------------------------------------|----------|--------------------------------------------------------------------|----------------------|------------------------------|--|
| Brad Shojae                                                                                                                       |                   | (909) 396-7662                                             |        | (909) 396-1455                           |           | —                                                             |          | Kenya Chen                                                         |                      | GEOFON, INC.                 |  |
| PROJECT NAME:<br>MW-24 Mon-3Q03                                                                                                   |                   | PROJECT LOCATION:<br>MW-24 (Amek Parking lot) - 04-4428.10 |        | PROJECT NUMBER:<br>04-4428.10            |           | LABORATORY PHONE:<br>(909) 590-1826                           |          | LABORATORY FAX:<br>(909) 590-1498                                  |                      | RECIPIENT NAME:<br>Tony Ford |  |
| PROJECT CONTACT:<br>J. Robinson                                                                                                   |                   | PROJECT PHONE NUMBER:<br>(914) 920 8729                    |        | PROJECT FAX:<br>(909) 396-1455           |           | LABORATORY ADDRESS:<br>13760 Magnolia Ave.<br>Chino, CA 91710 |          | ADDRESS:<br>22632 Golden Springs Dr. #270<br>Diamond Bar, CA 91765 |                      |                              |  |
| PROJECT ADDRESS:<br>4800 Oakhurst Dr.                                                                                             |                   | CITY, STATE AND ZIP CODE:<br>Pasadena, CA.                 |        | CLIENT:<br>US Navy Swair                 |           | CITY, STATE AND ZIP CODE:<br>Chino, CA 91710                  |          |                                                                    |                      |                              |  |
| PROJECT MANAGER:<br>Asrar Fakhari                                                                                                 |                   | PROJECT PHONE NUMBER:<br>(909) 396-7662                    |        | PROJECT MANAGER'S FAX:<br>(909) 396-1455 |           |                                                               |          |                                                                    |                      |                              |  |
| Item                                                                                                                              | Sample Identifier | Matrix                                                     | Date   | Time                                     | Preserved | # of Cont.                                                    | QC Level | T.A.T                                                              | Analyses             | Comments                     |  |
| 1                                                                                                                                 | MW-24-1           | H2O                                                        | 8/7/03 | 0947                                     | 341       | 155                                                           | none     | none                                                               | 524.2 (GLOLS)        | VOID Entry 9-8.7.03          |  |
| 2                                                                                                                                 | MW-24-4           |                                                            |        |                                          |           |                                                               |          |                                                                    | 341.0 (Hex Outcome)  |                              |  |
| 3                                                                                                                                 | MW-24-3           |                                                            |        |                                          |           |                                                               |          |                                                                    | 726 (Hex Outcome)    |                              |  |
| 4                                                                                                                                 | MW-24-2           |                                                            |        |                                          |           |                                                               |          |                                                                    | 201.8 (Total Chrome) |                              |  |
| 5                                                                                                                                 | MW-24-1           |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| 6                                                                                                                                 |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| 7                                                                                                                                 |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| 8                                                                                                                                 |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| 9                                                                                                                                 |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| 10                                                                                                                                |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| SAMPLES COLLECTED BY: Leo W. Williamson                                                                                           |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| REQUISITIONED BY: [Signature]                                                                                                     |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| COURIER AND AIR BILL NUMBER: [Blank]                                                                                              |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| RECEIVED BY: [Signature]                                                                                                          |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| DATE: 8.7.03                                                                                                                      |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| TIME: 0930                                                                                                                        |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| SAMPLE'S CONDITION UPON RECEIPT: [Blank]                                                                                          |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| COOLER TEMPERATURE UPON RECEIPT: [Blank]                                                                                          |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |
| Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager |                   |                                                            |        |                                          |           |                                                               |          |                                                                    |                      |                              |  |



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

## Sample Receiving Checklist

APCL ServiceID: **4534** Client Name/Project: Geolon

## 1. Sample Arrival

Date/Time Received 8/7/03 1350 Date/Time Opened 8/7/03 1350 By (name): Kenny Chan  
Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☒ APCL Empl: Richard Stinson

## 2. Chain-of-Custody (CoC)

☒ With Samples? ☐ Faxed? ☐ Client has Copy? ☐ Signed, dated? By: \_\_\_\_\_  
☒ Project ID? ☒ Analyses Clear? ☐ Hold Samples? # on Hold \_\_\_\_\_ # Received 12  
☒ CoC/Docs Zip-Locked under lid? ☐ Compos. #: \_\_\_\_\_ ☒ #Samples OK? \_\_\_\_\_  
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): \_\_\_\_\_

## 3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None  
Temp °C 2.8°C  
(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).  
Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

## 4. Sample Preservation

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

## 5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☒ Cr<sup>VI</sup> 24hr ☐ NO<sub>3</sub><sup>-</sup> 48hr ☐ BOD 48hr  
☐ Cl<sub>2</sub> ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP  
☐ HT Expired? ☐ Client notified?

## 6. Sample Container Condition

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

## 7. Turn Around Time

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

## 8. Sample Matrix

☐ Drinking H<sub>2</sub>O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: \_\_\_\_\_  
☒ Ground H<sub>2</sub>O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

## 9. Pre-Login Check List Completed &amp; OK?

☒ ALL OK? (if not, attach docs) ☐ Client Contact? (Name: \_\_\_\_\_) Date/Time: \_\_\_\_\_Received/Checked by: Kenny Chan Printed: 7 Aug 2003 7:33 a.m.

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

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

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

Sample Login: Check List

03-04534 (0470\_ 162) (2202777\_ 162)

08/07/03

Part 1: General Information

|                                                   |                      |                                                       |
|---------------------------------------------------|----------------------|-------------------------------------------------------|
| <input type="checkbox"/> Company Information      | Name:                | GEOFON, Inc.                                          |
|                                                   | Address:             | 22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765 |
| <input type="checkbox"/> Project Information      | Project Description: | JPL                                                   |
|                                                   | Project #:           | 04-4428.10                                            |
| <input type="checkbox"/> Billing Information      | P.O. #:              |                                                       |
|                                                   | Bill Address:        | 22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765 |
|                                                   | Lab Project ID:      |                                                       |
|                                                   | Client Database #:   | 3                                                     |
| <input type="checkbox"/> Receiving Information    | Who Received Sample? | Kenny Chan                                            |
|                                                   | Receiving Date/Time: | 08/07/03 1350                                         |
|                                                   | COC No.              |                                                       |
| <input type="checkbox"/> Shipping Information     | Shipping Company     | APCL pick up                                          |
|                                                   | Packing Information: | Cooler/Ice Chester                                    |
|                                                   | Cooler Temperature:  | 2.8 °C                                                |
| <input type="checkbox"/> Container Information    | Container Provider:  | Client                                                |
| <input type="checkbox"/> Sampling Information     | Sampling Person:     |                                                       |
|                                                   | Sampling Company:    | Client                                                |
| <input type="checkbox"/> Turn-Around-Time Option: |                      | Rush 5 working day(s)                                 |
| <input type="checkbox"/> QC Option:               |                      | NEESA C                                               |
| <input type="checkbox"/> Disposal Option:         |                      | Not specify                                           |

## Part 2: Sample Information

| Seq. # | Sample ID (on COC) | Sample Sub-ID | APCL Sample ID        | Matrix | Cont- tainer | Preser- vative | Vol, ml Am. g | # of Replica | Condition G, L, B | Collected mmddyy | Hold ? | Composite Group | TAT Days |                          |
|--------|--------------------|---------------|-----------------------|--------|--------------|----------------|---------------|--------------|-------------------|------------------|--------|-----------------|----------|--------------------------|
| 1      | MW-11-4 /          | 524.2         | 03-04534-5- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-11-4            | Perch         | 03-04534-5- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 2      | MW-11-3 /          | 524.2         | 03-04534-4- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-11-3            | CRVI/Perch    | 03-04534-4- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 3      | MW-11-2 /          | 524.2         | 03-04534-3- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-11-2            | CRVI/Perch    | 03-04534-3- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 4      | MW-11-1 /          | 524.2         | 03-04534-2- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-11-1            | CRVI/Perch    | 03-04534-2- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 5      | MW-24-4 /          | CRVI          | 03-04534-11           | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 6      | MW-24-3 /          | 524.2         | 03-04534-10- $\alpha$ | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-24-3            | CRVI/Perch    | 03-04534-10- $\beta$  | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 7      | MW-24-2 /          | 524.2         | 03-04534-9- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-24-2            | CRVI/Perch    | 03-04534-9- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 8      | MW-24-1 /          | 524.2         | 03-04534-8- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-24-1            | CRVI/Perch    | 03-04534-8- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 9      | MW-14-5 /          | 524.2         | 03-04534-7- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-14-5            | Perch         | 03-04534-7- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 10     | MW-14-4 /          | 524.2         | 03-04534-6- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | MW-14-4            | Perch         | 03-04534-6- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 11     | TB-6-8-7-03 /      | 524.2         | 03-04534-12           | W      | V            | C              | 40            | 2            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
| 12     | EB-6-8-7-03 /      | 524.2         | 03-04534-1- $\alpha$  | W      | V            | C              | 40            | 3            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |
|        | EB-6-8-7-03        | Perch         | 03-04534-1- $\beta$   | W      | P            |                | 500           | 1            | G                 | 080703           | N      | 0               | 7        | <input type="checkbox"/> |

## Part 3: Analysis Information

|             |                                              |                                        |
|-------------|----------------------------------------------|----------------------------------------|
| Test Items: | <input type="checkbox"/> 524.2               | Volatile Organic Compounds             |
|             | <input type="checkbox"/> 7196A               | Chromium (VI)                          |
|             | <input type="checkbox"/> 314.0/300.0         | Perchlorate, low level                 |
|             | <input type="checkbox"/> 300.0               | Chloride $\text{Cl}^-$ by IC           |
|             | <input type="checkbox"/> 300.0               | Sulfate ( $\text{SO}_4^{--}$ ), by IC  |
|             | <input type="checkbox"/> 300.0/SM4500NO $_3$ | Nitrate ( $\text{NO}_3^-$ ) as N by IC |
|             | <input type="checkbox"/> SM2320B             | Carbonate                              |
|             | <input type="checkbox"/> SM2320B             | Bicarbonate                            |
|             | <input type="checkbox"/> 9040B/150.1         | pH                                     |
|             | <input type="checkbox"/> 160.1               | Solids, Total Dissolved (TDS)          |
|             | <input type="checkbox"/> 200.7/6010B         | Sodium, Na, by ICP                     |
|             | <input type="checkbox"/> 200.7/6010B         | Calcium, Ca, by ICP                    |

Level C Data Package Deliverables

# Volatile Organics



Applied P & Ch Laboratory

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                                 |                              |                             |
|---------------------------------|------------------------------|-----------------------------|
| Client Name: GEOFON, Inc.       | Project No: 04-4428.10       | Collection Date: 08/11/2003 |
| Project ID: JPL                 | Service ID: 34534            | Collected by:               |
| Sample ID: <b>03G3659-MB-01</b> | Lab Sample ID: 03G3659-MB-01 | Received Date: 08/11/2003   |
| Sample Type: Method Blank       | Sample Matrix: Water         | Moisture %: -               |
| Anal. Method: 524.2             | Prep. Method: 5030           | Instrument ID: GC/MS: A     |
| Batch No: 03G3659               | Prep. Date: 08/11/03         | Anal. Date: 08/11/03        |
| Data File Name: G3659K01        | Prep. No: -                  | Anal. Time: 13:18           |
| Methanol Vol: -                 | Sample Amount: 25.0 mL       | Dilution Factor: 1          |
| Test Level: Low                 | Sparge Size: 25 mL           | Heated Purge: (Y/N) N       |

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

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

## Surrogates

Control Limit, %

Surro. Rec. %

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

## Internal Standard

Control Limit, %

IS Rec. %

|                     |                        |           |
|---------------------|------------------------|-----------|
| 1                   | CHLOROBENZENE-D5       | 3114-55-4 |
| 2                   | 1,4-DICHLOROBENZENE-D4 | 3855-82-1 |
| 3                   | FLUOROBENZENE          | 462-06-6  |
| # of out-of-control |                        | 0         |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                              |                             |
|---------------------------|------------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10       | Collection Date: 08/08/2003 |
| Project ID: JPL           | Service ID: 34534            | Collected by:               |
| Sample ID: 03G3619-MB-01  | Lab Sample ID: 03G3619-MB-01 | Received Date: 08/08/2003   |
| Sample Type: Method Blank | Sample Matrix: Water         | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030           | Instrument ID: GC/MS: A     |
| Batch No: 03G3619         | Prep. Date: 08/08/03         | Anal. Date: 08/08/03        |
| Data File Name: G3619K01  | Prep. No: -                  | Anal. Time: 13:25           |
| Methanol Vol: -           | Sample Amount: 25.0 mL       | Dilution Factor: 1          |
| Test Level: Low           | Sparge Size: 25 mL           | Heated Purge: (Y/N) N       |

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

| #                        | Component Name              | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-----------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE          | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE          | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                 | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE             | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                     | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE   | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE   | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE           | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                     | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE      | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE      | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE       | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE       | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE             | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE      | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE      | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE   | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE      | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE      | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE              | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                    | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                  | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                             |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 4-BROMO-FLUOROBENZENE (BFB) | 460-00-4   |      | 70-129                  | 96                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4       | 17060-07-0 |      | 70-129                  | 110                 |           |
| 3                        | DIBROMOFLUOROMETHANE        | 1868-53-7  |      | 70-122                  | 106                 |           |
| 4                        | TOLUENE-D8                  | 2037-26-5  |      | 73-129                  | 97                  |           |
| # of out-of-control      |                             |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                             |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5            | 3114-55-4  |      | 50-200                  | 97                  |           |
| 2                        | 1,4-DICHLOROBENZENE-D4      | 3855-82-1  |      | 50-200                  | 96                  |           |
| 3                        | FLUOROBENZENE               | 462-06-6   |      | 50-200                  | 93                  |           |
| # of out-of-control      |                             |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                               |                          |                             |
|-------------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc.     | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL               | Service ID: 34534        | Collected by:               |
| Sample ID: <b>EB-6-8-7-03</b> | Lab Sample ID: 03-4534-1 | Received Date: 08/07/2003   |
| Sample Type: Field Sample     | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2           | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3659             | Prep. Date: 08/11/03     | Anal. Date: 08/11/03        |
| Data File Name: 4534-01       | Prep. No: -              | Anal. Time: 14:11           |
| Methanol Vol. -               | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low               | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

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

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 96                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 109                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 107                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 96                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 95                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 95                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 89                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
| Sample ID: MW-11-1        | Lab Sample ID: 03-4534-2 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3619         | Prep. Date: 08/08/03     | Anal. Date: 08/08/03        |
| Data File Name: 4534-02   | Prep. No: -              | Anal. Time: 19:38           |
| Methanol Vol. -           | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low           | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

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

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 97                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 113                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 110                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 98                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 92                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 91                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 87                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
| Sample ID: MW-11-2        | Lab Sample ID: 03-4534-3 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3619         | Prep. Date: 08/08/03     | Anal. Date: 08/08/03        |
| Data File Name: 4534-03   | Prep. No: -              | Anal. Time: 20:04           |
| Methanol Vol: -           | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low           | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

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

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 96                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 116                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 110                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 98                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 93                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 92                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 87                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
| Sample ID: MW-11-3        | Lab Sample ID: 03-4534-4 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3619         | Prep. Date: 08/08/03     | Anal. Date: 08/08/03        |
| Data File Name: 4534-04   | Prep. No: -              | Anal. Time: 20:30           |
| Methanol Vol. -           | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low           | Sparge Size: 25 mL       | Heated Purge: (Y/N) N       |

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

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 97                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 114                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 109                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 99                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 92                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 91                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 88                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

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**Organic Analysis Results for Method 524.2**

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
|                           | Lab Sample ID: 03-4534-5 | Received Date: 08/07/2003   |
| Sample ID: MW-11-4        | Sample Matrix: Water     | Moisture %: -               |
| Sample Type: Field Sample | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Anal. Method: 524.2       | Prep. Date: 08/08/03     | Anal. Date: 08/08/03        |
| Batch No: 03G3619         | Prep. No: -              | Anal. Time: 20:56           |
| Data File Name: 4534-05   | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Methanol Vol. -           |                          |                             |
| Test Level: Low           | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

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

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | 0.3                 | J         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 96                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 112                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 110                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 99                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 93                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 93                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 89                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
Organic Analysis Results for Method 524.2

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
| Sample ID: MW-14-4        | Lab Sample ID: 03-4534-6 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3619         | Prep. Date: 08/08/03     | Anal. Date: 08/08/03        |
| Data File Name: 4534-06   | Prep. No: -              | Anal. Time: 21:22           |
| Methanol Vol. -           | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low           | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

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

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 95                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 113                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 109                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 98                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 92                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 94                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 87                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
| Sample ID: MW-14-5        | Lab Sample ID: 03-4534-7 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3619         | Prep. Date: 08/08/03     | Anal. Date: 08/08/03        |
| Data File Name: 4534-07   | Prep. No: -              | Anal. Time: 21:49           |
| Methanol Vol. -           | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low           | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

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

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | <0.5                | U         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | <0.5                | U         |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 96                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 112                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 109                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 99                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 92                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 92                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 87                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
| Sample ID: MW-24-1        | Lab Sample ID: 03-4534-8 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3659         | Prep. Date: 08/11/03     | Anal. Date: 08/11/03        |
| Data File Name: 4534-08   | Prep. No: -              | Anal. Time: 15:04           |
| Methanol Vol. -           | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low           | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

| #  | Component Name              | CAS No     | Unit | RL  | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1  | BENZENE                     | 71-43-2    | µg/L | 0.5 | <0.5   | U         |
| 2  | BROMOBENZENE                | 108-86-1   | µg/L | 0.5 | <0.5   | U         |
| 3  | BROMOCHLOROMETHANE          | 74-97-5    | µg/L | 0.5 | <0.5   | U         |
| 4  | BROMODICHLOROMETHANE        | 75-27-4    | µg/L | 0.5 | <0.5   | U         |
| 5  | BROMOFORM                   | 75-25-2    | µg/L | 0.5 | <0.5   | U         |
| 6  | BROMOMETHANE                | 74-83-9    | µg/L | 0.5 | <0.5   | U         |
| 7  | N-BUTYLBENZENE              | 104-51-8   | µg/L | 0.5 | <0.5   | U         |
| 8  | SEC-BUTYLBENZENE            | 135-98-8   | µg/L | 0.5 | <0.5   | U         |
| 9  | TERT-BUTYLBENZENE           | 98-06-6    | µg/L | 0.5 | <0.5   | U         |
| 10 | 2-BUTANONE                  | 78-93-3    | µg/L | 10  | <10    | U         |
| 11 | CARBON TETRACHLORIDE        | 56-23-5    | µg/L | 0.5 | 22.1   |           |
| 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 | 10.2   |           |
| 16 | CHLOROMETHANE               | 74-87-3    | µg/L | 0.5 | <0.5   | U         |
| 17 | 2-CHLOROTOLUENE             | 95-49-8    | µg/L | 0.5 | <0.5   | U         |
| 18 | 4-CHLOROTOLUENE             | 106-43-4   | µg/L | 0.5 | <0.5   | U         |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8    | µg/L | 0.5 | <0.5   | U         |
| 20 | 1,2-DIBROMOETHANE (EDB)     | 106-93-4   | µg/L | 0.5 | <0.5   | U         |
| 21 | DIBROMOMETHANE              | 74-95-3    | µg/L | 0.5 | <0.5   | U         |
| 22 | 1,2-DICHLOROBENZENE         | 95-50-1    | µg/L | 0.5 | <0.5   | U         |
| 23 | 1,3-DICHLOROBENZENE         | 541-73-1   | µg/L | 0.5 | <0.5   | U         |
| 24 | 1,4-DICHLOROBENZENE         | 106-46-7   | µg/L | 0.5 | <0.5   | U         |
| 25 | DICHLORODIFLUOROMETHANE     | 75-71-8    | µg/L | 0.5 | <0.5   | U         |
| 26 | 1,1-DICHLOROETHANE          | 75-34-3    | µg/L | 0.5 | <0.5   | U         |
| 27 | 1,2-DICHLOROETHANE          | 107-06-2   | µg/L | 0.5 | <0.5   | U         |
| 28 | 1,1-DICHLOROETHENE          | 75-35-4    | µg/L | 0.5 | 0.8    |           |
| 29 | CIS-1,2-DICHLOROETHENE      | 156-59-2   | µg/L | 0.5 | <0.5   | U         |
| 30 | TRANS-1,2-DICHLOROETHENE    | 156-60-5   | µg/L | 0.5 | <0.5   | U         |
| 31 | 1,2-DICHLOROPROPANE         | 78-87-5    | µg/L | 0.5 | <0.5   | U         |
| 32 | 1,3-DICHLOROPROPANE         | 142-28-9   | µg/L | 0.5 | <0.5   | U         |
| 33 | 2,2-DICHLOROPROPANE         | 594-20-7   | µg/L | 0.5 | <0.5   | U         |
| 34 | 1,1-DICHLOROPROPENE         | 563-58-6   | µg/L | 0.5 | <0.5   | U         |
| 35 | CIS-1,3-DICHLOROPROPENE     | 10061-01-5 | µg/L | 0.5 | <0.5   | U         |
| 36 | TRANS-1,3-DICHLOROPROPENE   | 10061-02-6 | µg/L | 0.5 | <0.5   | U         |
| 37 | ETHYLBENZENE                | 100-41-4   | µg/L | 0.5 | <0.5   | U         |
| 38 | HEXACHLOROBUTADIENE         | 87-68-3    | µg/L | 0.5 | <0.5   | U         |
| 39 | ISOPROPYLBENZENE (CUMENE)   | 98-82-8    | µg/L | 0.5 | <0.5   | U         |

| #                        | Component Name                      | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|-------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                  | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                  | 75-09-2    | µg/L | 0.5                     | 0.4                 | J         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)         | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)         | 108-10-1   | µg/L | 10                      | 0.3                 | J         |
| 44                       | NAPHTHALENE                         | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                     | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                             | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE           | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE           | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                   | 127-18-4   | µg/L | 0.5                     | 1.5                 |           |
| 50                       | TOLUENE                             | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE              | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE              | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE               | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE               | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                     | 79-01-6    | µg/L | 0.5                     | 4.8                 |           |
| 56                       | TRICHLOROFLUOROMETHANE              | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE              | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2,2-TETRACHLOROETHANE           | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE              | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE              | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                      | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                            | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                          | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                     |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 460-00-4   |      | 70-129                  | 97                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4               | 17060-07-0 |      | 70-129                  | 109                 |           |
| 3                        | DIBROMOFLUOROMETHANE                | 1868-53-7  |      | 70-122                  | 108                 |           |
| 4                        | TOLUENE-D8                          | 2037-26-5  |      | 73-129                  | 97                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                     |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                    | 3114-55-4  |      | 50-200                  | 95                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4               | 3855-82-1  |      | 50-200                  | 94                  |           |
| 3                        | FLUOROBENZENE                       | 462-06-6   |      | 50-200                  | 88                  |           |
| # of out-of-control      |                                     |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10   | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534        | Collected by:               |
| Sample ID: MW-24-2        | Lab Sample ID: 03-4534-9 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water     | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030       | Instrument ID: GC/MS: A     |
| Batch No: 03G3659         | Prep. Date: 08/11/03     | Anal. Date: 08/11/03        |
| Data File Name: 4534-09   | Prep. No: -              | Anal. Time: 15:31           |
| Methanol Vol: -           | Sample Amount: 25.0 mL   | Dilution Factor: 1          |
| Test Level: Low           | Spurge Size: 25 mL       | Heated Purge: (Y/N) N       |

| #  | Component Name              | CAS No     | Unit | RL  | Result | Qualifier |
|----|-----------------------------|------------|------|-----|--------|-----------|
| 1  | BENZENE                     | 71-43-2    | µg/L | 0.5 | < 0.5  | U         |
| 2  | BROMOBENZENE                | 108-86-1   | µg/L | 0.5 | < 0.5  | U         |
| 3  | BROMOCHLOROMETHANE          | 74-97-5    | µg/L | 0.5 | < 0.5  | U         |
| 4  | BROMODICHLOROMETHANE        | 75-27-4    | µg/L | 0.5 | < 0.5  | U         |
| 5  | BROMOFORM                   | 75-25-2    | µg/L | 0.5 | < 0.5  | U         |
| 6  | BROMOMETHANE                | 74-83-9    | µg/L | 0.5 | < 0.5  | U         |
| 7  | N-BUTYLBENZENE              | 104-51-8   | µg/L | 0.5 | < 0.5  | U         |
| 8  | SEC-BUTYLBENZENE            | 135-98-8   | µg/L | 0.5 | < 0.5  | U         |
| 9  | TERT-BUTYLBENZENE           | 98-06-6    | µg/L | 0.5 | < 0.5  | U         |
| 10 | 2-BUTANONE                  | 78-93-3    | µg/L | 10  | < 10   | U         |
| 11 | CARBON TETRACHLORIDE        | 56-23-5    | µg/L | 0.5 | 4.7    |           |
| 12 | CHLOROBENZENE               | 108-90-7   | µg/L | 0.5 | < 0.5  | U         |
| 13 | CHLORODIBROMOMETHANE        | 124-48-1   | µg/L | 0.5 | < 0.5  | U         |
| 14 | CHLOROETHANE                | 75-00-3    | µg/L | 0.5 | < 0.5  | U         |
| 15 | CHLOROFORM                  | 67-66-3    | µg/L | 0.5 | 2.4    |           |
| 16 | CHLOROMETHANE               | 74-87-3    | µg/L | 0.5 | < 0.5  | U         |
| 17 | 2-CHLOROTOLUENE             | 95-49-8    | µg/L | 0.5 | < 0.5  | U         |
| 18 | 4-CHLOROTOLUENE             | 106-43-4   | µg/L | 0.5 | < 0.5  | U         |
| 19 | 1,2-DIBROMO-3-CHLOROPROPANE | 96-12-8    | µg/L | 0.5 | < 0.5  | U         |
| 20 | 1,2-DIBROMOETHANE (EDB)     | 106-93-4   | µg/L | 0.5 | < 0.5  | U         |
| 21 | DIBROMOMETHANE              | 74-95-3    | µg/L | 0.5 | < 0.5  | U         |
| 22 | 1,2-DICHLOROBENZENE         | 95-50-1    | µg/L | 0.5 | < 0.5  | U         |
| 23 | 1,3-DICHLOROBENZENE         | 541-73-1   | µg/L | 0.5 | < 0.5  | U         |
| 24 | 1,4-DICHLOROBENZENE         | 106-46-7   | µg/L | 0.5 | < 0.5  | U         |
| 25 | DICHLORODIFLUOROMETHANE     | 75-71-8    | µg/L | 0.5 | < 0.5  | U         |
| 26 | 1,1-DICHLOROETHANE          | 75-34-3    | µg/L | 0.5 | < 0.5  | U         |
| 27 | 1,2-DICHLOROETHANE          | 107-06-2   | µg/L | 0.5 | < 0.5  | U         |
| 28 | 1,1-DICHLOROETHENE          | 75-35-4    | µg/L | 0.5 | < 0.5  | U         |
| 29 | CIS-1,2-DICHLOROETHENE      | 156-59-2   | µg/L | 0.5 | < 0.5  | U         |
| 30 | TRANS-1,2-DICHLOROETHENE    | 156-60-5   | µg/L | 0.5 | < 0.5  | U         |
| 31 | 1,2-DICHLOROPROPANE         | 78-87-5    | µg/L | 0.5 | < 0.5  | U         |
| 32 | 1,3-DICHLOROPROPANE         | 142-28-9   | µg/L | 0.5 | < 0.5  | U         |
| 33 | 2,2-DICHLOROPROPANE         | 594-20-7   | µg/L | 0.5 | < 0.5  | U         |
| 34 | 1,1-DICHLOROPROPENE         | 563-58-6   | µg/L | 0.5 | < 0.5  | U         |
| 35 | CIS-1,3-DICHLOROPROPENE     | 10061-01-5 | µg/L | 0.5 | < 0.5  | U         |
| 36 | TRANS-1,3-DICHLOROPROPENE   | 10061-02-6 | µg/L | 0.5 | < 0.5  | U         |
| 37 | ETHYLBENZENE                | 100-41-4   | µg/L | 0.5 | < 0.5  | U         |
| 38 | HEXACHLOROBUTADIENE         | 87-68-3    | µg/L | 0.5 | < 0.5  | U         |
| 39 | ISOPROPYLBENZENE (CUMENE)   | 98-82-8    | µg/L | 0.5 | < 0.5  | U         |

| #                        | Component Name                        | CAS No     | Unit | RL                      | Result              | Qualifier |
|--------------------------|---------------------------------------|------------|------|-------------------------|---------------------|-----------|
| 40                       | P-ISOPROPYLTOLUENE                    | 99-87-6    | µg/L | 0.5                     | <0.5                | U         |
| 41                       | METHYLENE CHLORIDE                    | 75-09-2    | µg/L | 0.5                     | 0.3                 | J         |
| 42                       | METHYL-T-BUTYL ETHER (MTBE)           | 1634-04-4  | µg/L | 1                       | <1                  | U         |
| 43                       | 4-METHYL-2-PENTANONE (MIBK)           | 108-10-1   | µg/L | 10                      | <10                 | U         |
| 44                       | NAPHTHALENE                           | 91-20-3    | µg/L | 0.5                     | <0.5                | U         |
| 45                       | N-PROPYLBENZENE                       | 103-65-1   | µg/L | 0.5                     | <0.5                | U         |
| 46                       | STYRENE                               | 100-42-5   | µg/L | 0.5                     | <0.5                | U         |
| 47                       | 1,1,1,2-TETRACHLOROETHANE             | 630-20-6   | µg/L | 0.5                     | <0.5                | U         |
| 48                       | 1,1,2,2-TETRACHLOROETHANE             | 79-34-5    | µg/L | 0.5                     | <0.5                | U         |
| 49                       | TETRACHLOROETHENE                     | 127-18-4   | µg/L | 0.5                     | <0.5                | U         |
| 50                       | TOLUENE                               | 108-88-3   | µg/L | 0.5                     | <0.5                | U         |
| 51                       | 1,2,3-TRICHLOROBENZENE                | 87-61-6    | µg/L | 0.5                     | <0.5                | U         |
| 52                       | 1,2,4-TRICHLOROBENZENE                | 120-82-1   | µg/L | 0.5                     | <0.5                | U         |
| 53                       | 1,1,1-TRICHLOROETHANE                 | 71-55-6    | µg/L | 0.5                     | <0.5                | U         |
| 54                       | 1,1,2-TRICHLOROETHANE                 | 79-00-5    | µg/L | 0.5                     | <0.5                | U         |
| 55                       | TRICHLOROETHENE                       | 79-01-6    | µg/L | 0.5                     | 0.8                 |           |
| 56                       | TRICHLOROFLUOROMETHANE                | 75-69-4    | µg/L | 0.5                     | <0.5                | U         |
| 57                       | 1,2,3-TRICHLOROPROPANE                | 96-18-4    | µg/L | 0.5                     | <0.5                | U         |
| 58                       | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | 76-13-1    | µg/L | 0.5                     | <0.5                | U         |
| 59                       | 1,2,4-TRIMETHYLBENZENE                | 95-63-6    | µg/L | 0.5                     | <0.5                | U         |
| 60                       | 1,3,5-TRIMETHYLBENZENE                | 108-67-8   | µg/L | 0.5                     | <0.5                | U         |
| 61                       | VINYL CHLORIDE                        | 75-01-4    | µg/L | 0.5                     | <0.5                | U         |
| 62                       | O-XYLENE                              | 95-47-6    | µg/L | 0.5                     | <0.5                | U         |
| 63                       | M/P-XYLENE                            | 108-38-3   | µg/L | 0.5                     | <0.5                | U         |
| <b>Surrogates</b>        |                                       |            |      | <b>Control Limit, %</b> | <b>Surro. Rec.%</b> |           |
| 1                        | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL)   | 460-00-4   |      | 70-129                  | 96                  |           |
| 2                        | 1,2-DICHLOROETHANE-D4                 | 17060-07-0 |      | 70-129                  | 113                 |           |
| 3                        | DIBROMOFLUOROMETHANE                  | 1868-53-7  |      | 70-122                  | 110                 |           |
| 4                        | TOLUENE-D8                            | 2037-26-5  |      | 73-129                  | 97                  |           |
| # of out-of-control      |                                       |            |      |                         | 0                   |           |
| <b>Internal Standard</b> |                                       |            |      | <b>Control Limit, %</b> | <b>IS Rec.%</b>     |           |
| 1                        | CHLOROBENZENE-D5                      | 3114-55-4  |      | 50-200                  | 95                  |           |
| 2                        | 1,4-DICHLOROETHANE-D4                 | 3855-82-1  |      | 50-200                  | 94                  |           |
| 3                        | FLUOROBENZENE                         | 462-06-6   |      | 50-200                  | 87                  |           |
| # of out-of-control      |                                       |            |      |                         | 0                   |           |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                           |                             |
|---------------------------|---------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10    | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534         | Collected by:               |
| Sample ID: MW-24-3        | Lab Sample ID: 03-4534-10 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water      | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030        | Instrument ID: GC/MS: A     |
| Batch No: 03G3659         | Prep. Date: 08/11/03      | Anal. Date: 08/11/03        |
| Data File Name: 4534-10   | Prep. No: -               | Anal. Time: 15:57           |
| Methanol Vol. -           | Sample Amount: 25.0 mL    | Dilution Factor: 1          |
| Test Level: Low           | Sparge Size: 25 mL        | Heated Purge: (Y/N) N       |

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

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

## Surrogates

Control Limit, %

Surro. Rec.%

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

70-129

96

70-129

112

70-122

110

73-129

96

# of out-of-control

0

## Internal Standard

Control Limit, %

IS Rec.%

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

50-200

94

50-200

94

50-200

86

# of out-of-control

0

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory  
**Organic Analysis Results for Method 524.2**

|                           |                           |                             |
|---------------------------|---------------------------|-----------------------------|
| Client Name: GEOFON, Inc. | Project No: 04-4428.10    | Collection Date: 08/07/2003 |
| Project ID: JPL           | Service ID: 34534         | Collected by:               |
| Sample ID: TB-6-8-7-03    | Lab Sample ID: 03-4534-12 | Received Date: 08/07/2003   |
| Sample Type: Field Sample | Sample Matrix: Water      | Moisture %: -               |
| Anal. Method: 524.2       | Prep. Method: 5030        | Instrument ID: GC/MS: A     |
| Batch No: 03G3659         | Prep. Date: 08/11/03      | Anal. Date: 08/11/03        |
| Data File Name: 4534-12   | Prep. No: -               | Anal. Time: 13:45           |
| Methanol Vol: -           | Sample Amount: 25.0 mL    | Dilution Factor: 1          |
| Test Level: Low           | Sparge Size: 25 mL        | Heated Purge: (Y/N) N       |

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

| #  | Component Name              | CAS No    | Unit | RL  | Result | Qualifier |
|----|-----------------------------|-----------|------|-----|--------|-----------|
| 40 | P-ISOPROPYLTOLUENE          | 99-87-6   | µg/L | 0.5 | <0.5   | U         |
| 41 | METHYLENE CHLORIDE          | 75-09-2   | µg/L | 0.5 | 1.3    |           |
| 42 | METHYL-T-BUTYL ETHER (MTBE) | 1634-04-4 | µg/L | 1   | <1     | U         |
| 43 | 4-METHYL-2-PENTANONE (MIBK) | 108-10-1  | µg/L | 10  | <10    | U         |
| 44 | NAPHTHALENE                 | 91-20-3   | µg/L | 0.5 | <0.5   | U         |
| 45 | N-PROPYLBENZENE             | 103-65-1  | µg/L | 0.5 | <0.5   | U         |
| 46 | STYRENE                     | 100-42-5  | µg/L | 0.5 | <0.5   | U         |
| 47 | 1,1,1,2-TETRACHLOROETHANE   | 630-20-6  | µg/L | 0.5 | <0.5   | U         |
| 48 | 1,1,2,2-TETRACHLOROETHANE   | 79-34-5   | µg/L | 0.5 | <0.5   | U         |
| 49 | TETRACHLOROETHENE           | 127-18-4  | µg/L | 0.5 | <0.5   | U         |
| 50 | TOLUENE                     | 108-88-3  | µg/L | 0.5 | <0.5   | U         |
| 51 | 1,2,3-TRICHLOROBENZENE      | 87-61-6   | µg/L | 0.5 | <0.5   | U         |
| 52 | 1,2,4-TRICHLOROBENZENE      | 120-82-1  | µg/L | 0.5 | <0.5   | U         |
| 53 | 1,1,1-TRICHLOROETHANE       | 71-55-6   | µg/L | 0.5 | <0.5   | U         |
| 54 | 1,1,2-TRICHLOROETHANE       | 79-00-5   | µg/L | 0.5 | <0.5   | U         |
| 55 | TRICHLOROETHENE             | 79-01-6   | µg/L | 0.5 | <0.5   | U         |
| 56 | TRICHLOROFLUOROMETHANE      | 75-69-4   | µg/L | 0.5 | <0.5   | U         |
| 57 | 1,2,3-TRICHLOROPROPANE      | 96-18-4   | µg/L | 0.5 | <0.5   | U         |
| 58 | 1,1,2,2-TETRACHLOROETHANE   | 76-13-1   | µg/L | 0.5 | <0.5   | U         |
| 59 | 1,2,4-TRIMETHYLBENZENE      | 95-63-6   | µg/L | 0.5 | <0.5   | U         |
| 60 | 1,3,5-TRIMETHYLBENZENE      | 108-67-8  | µg/L | 0.5 | <0.5   | U         |
| 61 | VINYL CHLORIDE              | 75-01-4   | µg/L | 0.5 | <0.5   | U         |
| 62 | O-XYLENE                    | 95-47-6   | µg/L | 0.5 | <0.5   | U         |
| 63 | M/P-XYLENE                  | 108-38-3  | µg/L | 0.5 | <0.5   | U         |

## Surrogates

|                     |                                     | Control Limit, % | Surro. Rec.% |
|---------------------|-------------------------------------|------------------|--------------|
| 1                   | 1-BROMO-4-FLUOROBENZENE (4-BROMOFL) | 70-129           | 94           |
| 2                   | 1,2-DICHLOROETHANE-D4               | 70-129           | 113          |
| 3                   | DIBROMOFLUOROMETHANE                | 70-122           | 110          |
| 4                   | TOLUENE-D8                          | 73-129           | 95           |
| # of out-of-control |                                     |                  | 0            |

## Internal Standard

|                     |                       | Control Limit, % | IS Rec.% |
|---------------------|-----------------------|------------------|----------|
| 1                   | CHLOROBENZENE-D5      | 50-200           | 98       |
| 2                   | 1,4-DICHLOROETHANE-D4 | 50-200           | 98       |
| 3                   | FLUOROBENZENE         | 50-200           | 89       |
| # of out-of-control |                       |                  | 0        |

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

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

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

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

## FORM-2A

Applied P &amp; Ch Laboratory

**Surrogate Recovery Summary for Method 524.2**

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

SDG Number: 034534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3659

| #  | Client<br>Sample No | Lab<br>Sample ID | S1<br>% # | S2<br>% # | S3<br>% # | S4<br>% # | TOT<br>OUT |
|----|---------------------|------------------|-----------|-----------|-----------|-----------|------------|
| 1  | 03G3659-LCS-01      | 03G3659-LCS-01   | 95        | 96        | 98        | 96        | 0          |
| 2  | 03G3659-MB-01       | 03G3659-MB-01    | 96        | 111       | 108       | 96        | 0          |
| 3  | TB-6-8-7-03         | 03-4534-12       | 94        | 113       | 110       | 95        | 0          |
| 4  | EB-6-8-7-03         | 03-4534-1        | 96        | 109       | 107       | 96        | 0          |
| 5  | MW-24-1             | 03-4534-8        | 97        | 109       | 108       | 97        | 0          |
| 6  | MW-24-2             | 03-4534-9        | 96        | 113       | 110       | 97        | 0          |
| 7  | MW-24-3             | 03-4534-10       | 96        | 112       | 110       | 96        | 0          |
| 8  | MW-12-4MS           | 03-4572-6MS      | 97        | 103       | 101       | 97        | 0          |
| 9  | MW-12-4MSD          | 03-4572-6MSD     | 96        | 99        | 99        | 97        | 0          |
| 10 |                     |                  |           |           |           |           |            |
| 11 |                     |                  |           |           |           |           |            |
| 12 |                     |                  |           |           |           |           |            |
| 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 = 1,2-DICHLOROETHANE-D4

70-129

S3 = DIBROMOFLUOROMETHANE

70-122

S4 = TOLUENE-D8

73-129

# Column to be used to flag recovery values:

\* - Values outside of contract required QC Limits

D - Surrogate diluted out

I - Matrix Interference

## FORM-2A

Applied P &amp; Ch Laboratory

## Surrogate Recovery Summary for Method 524.2

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 034534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3619

| #  | Client<br>Sample No | Lab<br>Sample ID | S1<br>% # | S2<br>% # | S3<br>% # | S4<br>% # | TOT<br>OUT |
|----|---------------------|------------------|-----------|-----------|-----------|-----------|------------|
| 1  | 03G3619-LCS-01      | 03G3619-LCS-01   | 95        | 98        | 99        | 97        | 0          |
| 2  | MW-4-2MS            | 03-4455-4MS      | 100       | 90        | 97        | 102       | 0          |
| 3  | MW-4-2MSD           | 03-4455-4MSD     | 96        | 95        | 98        | 96        | 0          |
| 4  | 03G3619-MB-01       | 03G3619-MB-01    | 96        | 110       | 106       | 97        | 0          |
| 5  | MW-11-1             | 03-4534-2        | 97        | 113       | 110       | 98        | 0          |
| 6  | MW-11-2             | 03-4534-3        | 96        | 116       | 110       | 98        | 0          |
| 7  | MW-11-3             | 03-4534-4        | 97        | 114       | 109       | 99        | 0          |
| 8  | MW-11-4             | 03-4534-5        | 96        | 112       | 110       | 99        | 0          |
| 9  | MW-14-4             | 03-4534-6        | 95        | 113       | 109       | 98        | 0          |
| 10 | MW-14-5             | 03-4534-7        | 96        | 112       | 109       | 99        | 0          |
| 11 |                     |                  |           |           |           |           |            |
| 12 |                     |                  |           |           |           |           |            |
| 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 = 1,2-DICHLOROETHANE-D4

70-129

S3 = DIBROMOFLUOROMETHANE

70-122

S4 = TOLUENE-D8

73-129

# Column to be used to flag recovery values:

\* - Values outside of contract required QC Limits

D - Surrogate diluted out

I - Matrix Interference

## FORM-3A

Applied P &amp; 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: 34534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3659

LCS Filename: G3659L01

Date Analyzed: 081103

Time Analyzed: 11:06

LCSD Filename: -

Date Analyzed: -

Time Analyzed: -

| Spiked Components   | Unit | Spike Added | Concentration |      | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|------------|-----------------|
|                     |      |             | Unspiked      | LCS  |            |                 |
| BENZENE             | µg/L | 20          | 0             | 18.6 | 93         | 65-120          |
| CHLOROBENZENE       | µg/L | 20          | 0             | 20.3 | 102        | 65-134          |
| 1,1-DICHLOROETHENE  | µg/L | 20          | 0             | 19.3 | 97         | 65-127          |
| TOLUENE             | µg/L | 20          | 0             | 19.1 | 96         | 65-134          |
| TRICHLOROETHENE     | µg/L | 20          | 0             | 19.3 | 97         | 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 &amp; 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: 34534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3659

MS Filename: G3659M02

Date Analyzed: 081103

Time Analyzed: 21:14

MSD Filename: G3659N02

Date Analyzed: 081103

Time Analyzed: 21:40

MS Sample No: MW-12-4

Sample Lab ID: 03-4572-6

| Spiked Components   | Unit | Spike Added | Concentration |      | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|-----------|-----------------|
|                     |      |             | Unspiked      | MS   |           |                 |
| BENZENE             | µg/L | 20          | 0             | 19.0 | 95        | 65-121          |
| CHLOROBENZENE       | µg/L | 20          | 0             | 20.9 | 105       | 65-134          |
| 1,1-DICHLOROETHENE  | µg/L | 20          | 0             | 19.2 | 96        | 65-127          |
| TOLUENE             | µg/L | 20          | 0             | 19.5 | 98        | 65-134          |
| TRICHLOROETHENE     | µg/L | 20          | 0.4           | 20.3 | 100       | 65-125          |
| # of Out-of-control |      |             |               |      | 0         |                 |

| Spiked Components   | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
|                     |      |             |                   |            |        | RPD         | REC    |
| BENZENE             | µg/L | 20          | 18.8              | 94         | 1      | 28          | 65-121 |
| CHLOROBENZENE       | µg/L | 20          | 20.6              | 103        | 2      | 35          | 65-134 |
| 1,1-DICHLOROETHENE  | µg/L | 20          | 19.2              | 96         | 0      | 31          | 65-127 |
| TOLUENE             | µg/L | 20          | 19.3              | 97         | 1      | 35          | 65-134 |
| TRICHLOROETHENE     | µg/L | 20          | 20.2              | 99         | 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-3A

Applied P &amp; 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: 34534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3619

LCS Filename: G3619L01

Date Analyzed: 080803

Time Analyzed: 11:12

LCSD Filename: -

Date Analyzed: -

Time Analyzed: -

| Spiked Components   | Unit | Spike Added | Concentration |      | LCS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|------------|-----------------|
|                     |      |             | Unspiked      | LCS  |            |                 |
| BENZENE             | µg/L | 20          | 0             | 19.1 | 96         | 65-120          |
| CHLOROBENZENE       | µg/L | 20          | 0             | 20.7 | 104        | 65-134          |
| 1,1-DICHLOROETHENE  | µg/L | 20          | 0             | 19.7 | 99         | 65-127          |
| TOLUENE             | µg/L | 20          | 0             | 19.5 | 98         | 65-134          |
| TRICHLOROETHENE     | µg/L | 20          | 0             | 20.0 | 100        | 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 &amp; 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: 34534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03G3619

MS Filename: G3619M01

Date Analyzed: 080803

Time Analyzed: 11:40

MSD Filename: G3619N01

Date Analyzed: 080803

Time Analyzed: 12:06

MS Sample No: MW-4-2

Sample Lab ID: 03-4455-4

| Spiked Components   | Unit | Spike Added | Concentration |      | MS Rec% # | QC Limit, % REC |
|---------------------|------|-------------|---------------|------|-----------|-----------------|
|                     |      |             | Unspiked      | MS   |           |                 |
| BENZENE             | µg/L | 20          | 0             | 19.2 | 96        | 65-121          |
| CHLOROBENZENE       | µg/L | 20          | 0             | 21.1 | 106       | 65-134          |
| 1,1-DICHLOROETHENE  | µg/L | 20          | 0             | 20.2 | 101       | 65-127          |
| TOLUENE             | µg/L | 20          | 0             | 20.3 | 102       | 65-134          |
| TRICHLOROETHENE     | µg/L | 20          | 0.7           | 21.3 | 103       | 65-125          |
| # of Out-of-control |      |             |               |      | 0         |                 |

| Spiked Components   | Unit | Spike Added | MSD Concentration | MSD Rec% # | RPD% # | QC Limit, % |        |
|---------------------|------|-------------|-------------------|------------|--------|-------------|--------|
|                     |      |             |                   |            |        | RPD         | REC    |
| BENZENE             | µg/L | 20          | 18.8              | 94         | 2      | 28          | 65-121 |
| CHLOROBENZENE       | µg/L | 20          | 20.3              | 102        | 4      | 35          | 65-134 |
| 1,1-DICHLOROETHENE  | µg/L | 20          | 19.3              | 97         | 4      | 31          | 65-127 |
| TOLUENE             | µg/L | 20          | 19.3              | 97         | 5      | 35          | 65-134 |
| TRICHLOROETHENE     | µg/L | 20          | 20.4              | 99         | 4      | 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 &amp; Ch Laboratory

**Method Blank Summary for Method 524.2**

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34534

Project ID: JPL

Project No: 04-4428.10

Analysis Date: 08/11/03

Sample Matrix: Water

Analysis Time: 13:18

Sample ID: 03G3659-MB-01

Batch No: 03G3659

Instrument ID: GC/MS: A

Lab Sample ID: 03G3659-MB-01

Data File Name: G3659K01

GC Column: HP-VOC

Heated Purge: (Y/N) N

Column ID: 0.20 mm

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

| #  | Client<br>Sample No | Lab<br>Sample ID | Sample Type            | Data<br>Filename | Analysis<br>Date | Analysis<br>Time |
|----|---------------------|------------------|------------------------|------------------|------------------|------------------|
| 1  | 03G3659-LCS-01      | 03G3659-LCS-01   | Lab Control Spike      | G3659L01         | 08/11/03         | 11:06            |
| 2  | MW-12-4MS           | 03-4572-6MS      | Matrix Spike           | G3659M02         | 08/11/03         | 21:14            |
| 3  | MW-12-4MSD          | 03-4572-6MSD     | Matrix Spike Duplicate | G3659N02         | 08/11/03         | 21:40            |
| 4  | TB-6-8-7-03         | 03-4534-12       | Field Sample           | 4534-12          | 08/11/03         | 13:45            |
| 5  | EB-6-8-7-03         | 03-4534-1        | Field Sample           | 4534-01          | 08/11/03         | 14:11            |
| 6  | MW-24-1             | 03-4534-8        | Field Sample           | 4534-08          | 08/11/03         | 15:04            |
| 7  | MW-24-2             | 03-4534-9        | Field Sample           | 4534-09          | 08/11/03         | 15:31            |
| 8  | MW-24-3             | 03-4534-10       | Field Sample           | 4534-10          | 08/11/03         | 15:57            |
| 9  | MW-12-4MS           | 03-4572-6MS      | Matrix Spike           | G3659M02         | 08/11/03         | 21:14            |
| 10 | MW-12-4MSD          | 03-4572-6MSD     | Matrix Spike Duplicate | G3659N02         | 08/11/03         | 21:40            |
| 11 |                     |                  |                        |                  |                  |                  |
| 12 |                     |                  |                        |                  |                  |                  |
| 13 |                     |                  |                        |                  |                  |                  |
| 14 |                     |                  |                        |                  |                  |                  |
| 15 |                     |                  |                        |                  |                  |                  |
| 16 |                     |                  |                        |                  |                  |                  |
| 17 |                     |                  |                        |                  |                  |                  |
| 18 |                     |                  |                        |                  |                  |                  |
| 19 |                     |                  |                        |                  |                  |                  |
| 20 |                     |                  |                        |                  |                  |                  |
| 21 |                     |                  |                        |                  |                  |                  |
| 22 |                     |                  |                        |                  |                  |                  |
| 23 |                     |                  |                        |                  |                  |                  |
| 24 |                     |                  |                        |                  |                  |                  |
| 25 |                     |                  |                        |                  |                  |                  |
| 26 |                     |                  |                        |                  |                  |                  |
| 27 |                     |                  |                        |                  |                  |                  |
| 28 |                     |                  |                        |                  |                  |                  |

## FORM-4A

Applied P &amp; Ch Laboratory

**Method Blank Summary for Method 524.2**

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 34534

Project ID: JPL

Project No: 04-4428.10

Analysis Date: 08/08/03

Sample Matrix: Water

Analysis Time: 13:25

Sample ID: 03G3619-MB-01

Batch No: 03G3619

Instrument ID: GC/MS: A

Lab Sample ID: 03G3619-MB-01

Data File Name: G3619K01

GC Column: HP-VOC

Heated Purge: (Y/N) N

Column ID: 0.20 mm

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

| #  | Client Sample No | Lab Sample ID  | Sample Type            | Data Filename | Analysis Date | Analysis Time |
|----|------------------|----------------|------------------------|---------------|---------------|---------------|
| 1  | 03G3619-LCS-01   | 03G3619-LCS-01 | Lab Control Spike      | G3619L01      | 08/08/03      | 11:12         |
| 2  | MW-4-2MS         | 03-4455-4MS    | Matrix Spike           | G3619M01      | 08/08/03      | 11:40         |
| 3  | MW-4-2MSD        | 03-4455-4MSD   | Matrix Spike Duplicate | G3619N01      | 08/08/03      | 12:06         |
| 4  | MW-11-1          | 03-4534-2      | Field Sample           | 4534-02       | 08/08/03      | 19:38         |
| 5  | MW-11-2          | 03-4534-3      | Field Sample           | 4534-03       | 08/08/03      | 20:04         |
| 6  | MW-11-3          | 03-4534-4      | Field Sample           | 4534-04       | 08/08/03      | 20:30         |
| 7  | MW-11-4          | 03-4534-5      | Field Sample           | 4534-05       | 08/08/03      | 20:56         |
| 8  | MW-14-4          | 03-4534-6      | Field Sample           | 4534-06       | 08/08/03      | 21:22         |
| 9  | MW-14-5          | 03-4534-7      | Field Sample           | 4534-07       | 08/08/03      | 21:49         |
| 10 |                  |                |                        |               |               |               |
| 11 |                  |                |                        |               |               |               |
| 12 |                  |                |                        |               |               |               |
| 13 |                  |                |                        |               |               |               |
| 14 |                  |                |                        |               |               |               |
| 15 |                  |                |                        |               |               |               |
| 16 |                  |                |                        |               |               |               |
| 17 |                  |                |                        |               |               |               |
| 18 |                  |                |                        |               |               |               |
| 19 |                  |                |                        |               |               |               |
| 20 |                  |                |                        |               |               |               |
| 21 |                  |                |                        |               |               |               |
| 22 |                  |                |                        |               |               |               |
| 23 |                  |                |                        |               |               |               |
| 24 |                  |                |                        |               |               |               |
| 25 |                  |                |                        |               |               |               |
| 26 |                  |                |                        |               |               |               |
| 27 |                  |                |                        |               |               |               |
| 28 |                  |                |                        |               |               |               |



5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name : APPLIED P & CH LAB Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 034534  
 Lab File ID: G 3415 P01 BFB Injection Date: 07/22/2003  
 Instrument ID: GCMS-A BFB Injection Time: 1708  
 GC Column: HP-VOC ID: 0.20 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA             | %RELATIVE ABUNDANCE |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 15.3                |
| 75  | 30.0 - 60.0% of mass 95            | 44.1                |
| 95  | Base peak, 100% relative abundance | 100.0               |
| 96  | 5.0 - 9.0% of mass 95              | 7.0                 |
| 173 | Less than 2.0% of mass 174         | 0.6 ( 0.7 )1        |
| 174 | 50.0 - 100.0% of mass 95           | 81.3                |
| 175 | 5.0 - 9.0% of mass 174             | 5.8 ( 7.1 )1        |
| 176 | 95.0 - 101.0% of mass 174          | 80.2 ( 98.6 )1      |
| 177 | 5.0 - 9.0% of mass 176             | 6.1 ( 7.6 )2        |

1-Value is % mass 174

2-Value is % mass 176

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

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | VSTD0003          | 20-0003          | 20-00003.D     | 07/22/2003       | 1925             |
| 02 | VSTD002           | 20-0002          | 20-0002.D      | 07/22/2003       | 2111             |
| 03 | VSTD010           | 20-0010          | 20-0010.D      | 07/22/2003       | 2137             |
| 04 | VSTD020           | 20-0020          | 20-0020.D      | 07/22/2003       | 2256             |
| 05 | VSTD040           | 20-0040          | 20-0040.D      | 07/23/2003       | 0043             |
| 06 | VSTD060           | 20-0060          | 20-0060.D      | 07/23/2003       | 0245             |
| 07 |                   |                  |                |                  |                  |
| 08 |                   |                  |                |                  |                  |
| 09 |                   |                  |                |                  |                  |
| 10 |                   |                  |                |                  |                  |
| 11 |                   |                  |                |                  |                  |
| 12 |                   |                  |                |                  |                  |
| 13 |                   |                  |                |                  |                  |
| 14 |                   |                  |                |                  |                  |
| 15 |                   |                  |                |                  |                  |
| 16 |                   |                  |                |                  |                  |
| 17 |                   |                  |                |                  |                  |
| 18 |                   |                  |                |                  |                  |
| 19 |                   |                  |                |                  |                  |
| 20 |                   |                  |                |                  |                  |
| 21 |                   |                  |                |                  |                  |
| 22 |                   |                  |                |                  |                  |

# Response Factor Report GCMS-A

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Initial Calibration

Calibration Files  
 .3 =2-00003.D 2 =2-0002A.D 10 =2-00010.D  
 20 =2-00020.D 40 =2-00040.D 60 =2-00060.D

| Compound | .3                  | 2     | 10    | 20    | 40    | 60    | Avg   | %RSD  |        |
|----------|---------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1) I     | 1 Fluorobenzene     | 0.279 | 0.253 | 0.228 | 0.251 | 0.250 | 0.246 | 0.251 | 6.61   |
| 2) 2     | 3 di-Cl-di-F-m      | 0.300 | 0.265 | 0.208 | 0.221 | 0.218 | 0.200 | 0.235 | 16.51  |
| 3) 3     | 4 Chloromethan      | 0.116 | 0.138 | 0.126 | 0.136 | 0.137 | 0.133 | 0.131 | 6.45   |
| 4) 4     | 2 F114              | 0.268 | 0.267 | 0.219 | 0.239 | 0.240 | 0.223 | 0.242 | 8.61   |
| 5) 5     | 5 vinyl chlori      | 0.143 | 0.128 | 0.105 | 0.113 | 0.104 | 0.106 | 0.116 | 13.63  |
| 6) 6     | 6 bromomethane      | 0.162 | 0.171 | 0.136 | 0.131 | 0.138 | 0.129 | 0.144 | 12.08  |
| 7) 7     | 7 chloroethane      | 0.426 | 0.367 | 0.310 | 0.357 | 0.356 | 0.338 | 0.359 | 10.76  |
| 8) 8     | 8 tri-Cl-F-met      | 0.055 | 0.041 | 0.042 | 0.041 | 0.040 | 0.040 | 0.044 | 14.16  |
| 9) 9     | 91 Acetonitrile     | 0.034 | 0.034 | 0.026 | 0.025 | 0.024 | 0.022 | 0.028 | 18.73  |
| 10) 10   | 9 acrolein          | 0.106 | 0.053 | 0.028 | 0.024 | 0.024 | 0.021 | 0.043 | 77.29  |
| 11) 11   | 11 acetone X        | 0.162 | 0.157 | 0.117 | 0.117 | 0.110 | 0.098 | 0.127 | 20.67  |
| 12) 12   | 12 ethyl ether      | 0.345 | 0.312 | 0.258 | 0.277 | 0.275 | 0.253 | 0.287 | 12.31# |
| 13) 13   | M, C13 11-dichloroe | 0.266 | 0.286 | 0.244 | 0.262 | 0.258 | 0.205 | 0.253 | 10.75  |
| 14) 14   | 14 Iodomethane      | 0.313 | 0.246 | 0.193 | 0.211 | 0.205 | 0.185 | 0.225 | 21.21  |
| 15) 15   | 15 F-113            | 0.053 | 0.052 | 0.042 | 0.041 | 0.040 | 0.040 | 0.045 | 13.61  |
| 16) 16   | 16 acrylonitril     | 0.838 | 0.780 | 0.654 | 0.729 | 0.722 | 0.649 | 0.729 | 10.00  |
| 17) 17   | 17 carbon disul     | 0.015 | 0.008 | 0.005 | 0.006 | 0.007 | 0.006 | 0.008 | 46.15  |
| 18) 18   | 94 Isopropyl Al     | 1.323 | 0.482 | 0.257 | 0.251 | 0.242 | 0.244 | 0.467 | 92.15  |
| 19) 19   | 18 methylene ch     | 0.297 | 0.305 | 0.248 | 0.262 | 0.256 | 0.253 | 0.270 | 8.99   |
| 20) 20   | 19 t-12-di-Cl-e     | 0.474 | 0.509 | 0.419 | 0.427 | 0.427 | 0.442 | 0.450 | 7.81   |
| 21) 21   | 20 t-Bu-Me-ethe     | 0.014 | 0.010 | 0.010 | 0.010 | 0.012 | 0.013 | 0.012 | 16.51  |
| 22) 22   | 95 Tert butyl a     | 0.549 | 0.412 | 0.417 | 0.307 | 0.282 | 0.393 | 26.97 | 12.52  |
| 23) 23   | 94 allyl chlori     | 0.518 | 0.484 | 0.380 | 0.407 | 0.403 | 0.409 | 0.433 | 14.53  |
| 24) 24   | p 11-dichloroe      | 0.020 | 0.014 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 9.12   |
| 25) 25   | 97 propionitril     | 0.296 | 0.311 | 0.252 | 0.263 | 0.257 | 0.255 | 0.272 | 16.98  |
| 26) 26   | 22 c-12-di-Cl-e     | 0.392 | 0.360 | 0.280 | 0.290 | 0.277 | 0.262 | 0.310 | 13.12  |
| 27) 27   | 23 22-Dichlorop     | 0.158 | 0.150 | 0.117 | 0.123 | 0.122 | 0.122 | 0.132 |        |
| 28) 28   | 24 Br-Cl-methan     |       |       |       |       |       |       |       |        |

(#) = Out of Range  
 E524A002.M

Thu Jul 24 12:41:07 2003

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Initial Calibration

Calibration Files  
 .3 =2-00003.D 2 =2-0002A.D 10 =2-00010.D  
 20 =2-00020.D 40 =2-00040.D 60 =2-00060.D

| Compound                 | .3    | 2     | 10    | 20    | 40    | 60    | Avg   | %RSD        |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------------|
| 29) C 25 chloroform      | 0.724 | 0.528 | 0.396 | 0.413 | 0.403 | 0.406 | 0.478 | 27.21# 1.00 |
| 30) 26 tetrahydrofu      | 0.036 | 0.035 | 0.031 | 0.031 | 0.032 | 0.032 | 0.033 | 6.66        |
| 31) 98 Disopropyl        | 0.648 | 0.792 | 0.634 | 0.653 | 0.636 | 0.641 | 0.667 | 9.23        |
| 32) S 27 Di-Br-F-Me (    | 0.294 | 0.230 | 0.240 | 0.239 | 0.243 | 0.243 | 0.249 | 10.27       |
| 33) 99 ETBE              | 0.437 | 0.534 | 0.485 | 0.524 | 0.532 | 0.549 | 0.510 | 8.20        |
| 34) S 29 1,2-Di-Cl-Et    | 0.248 | 0.186 | 0.191 | 0.191 | 0.191 | 0.192 | 0.202 | 12.96       |
| 35) 30 12-dichloroe      | 0.094 | 0.093 | 0.070 | 0.070 | 0.070 | 0.070 | 0.078 | 15.50       |
| 36) 32 vinyl acetat      | 0.319 | 0.377 | 0.321 | 0.291 | 0.285 | 0.280 | 0.312 | 11.53       |
| 37) 92 Nitro Methan      | 0.006 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 9.09        |
| 38) 33 2-butanoneME      | 0.081 | 0.061 | 0.044 | 0.043 | 0.042 | 0.041 | 0.052 | 30.99 1.00  |
| 39) 93 Ethyl Acetat      | 0.175 | 0.135 | 0.110 | 0.107 | 0.107 | 0.110 | 0.124 | 22.07 0.999 |
| 40) 34 111-trichlor      | 0.479 | 0.436 | 0.353 | 0.387 | 0.385 | 0.378 | 0.403 | 11.36       |
| 41) 35 11-Di-Cl-pro      | 0.271 | 0.306 | 0.284 | 0.325 | 0.324 | 0.316 | 0.304 | 7.40        |
| 42) M 36 benzene         | 1.117 | 1.160 | 0.923 | 0.983 | 0.960 | 0.948 | 1.015 | 9.69        |
| 43) 37 CC14              | 0.434 | 0.397 | 0.329 | 0.361 | 0.358 | 0.350 | 0.371 | 10.20       |
| 44) 100 Isobutyl al      | 0.002 | 0.005 | 0.004 | 0.004 | 0.005 | 0.005 | 0.004 | 30.78 0.997 |
| 45) 38 thiophene         | 0.471 | 0.573 | 0.471 | 0.505 | 0.504 | 0.503 | 0.505 | 7.36        |
| 46) C 39 12-di-Cl-pro    | 0.247 | 0.251 | 0.204 | 0.220 | 0.221 | 0.220 | 0.227 | 7.93#       |
| 47) M 40 trichloroeth    | 0.354 | 0.335 | 0.274 | 0.312 | 0.315 | 0.309 | 0.316 | 8.59        |
| 48) 41 dibromometha      | 0.177 | 0.159 | 0.126 | 0.133 | 0.134 | 0.135 | 0.144 | 13.68       |
| 49) 101 TAME             | 0.352 | 0.451 | 0.420 | 0.462 | 0.472 | 0.498 | 0.442 | 11.61       |
| 50) 42 Br-di-Cl-met      | 0.433 | 0.359 | 0.280 | 0.298 | 0.298 | 0.297 | 0.327 | 17.81 1.00  |
| 51) 43 Me-methacryl      | 0.065 | 0.098 | 0.100 | 0.112 | 0.117 | 0.121 | 0.102 | 20.03 0.999 |
| 52) 44 2-ClEt-Vi-et      | 0.010 | 0.016 | 0.019 | 0.025 | 0.029 |       | 0.020 | 37.07 0.992 |
| 53) 45 c-13-di-Cl-p      | 0.312 | 0.358 | 0.307 | 0.333 | 0.335 | 0.336 | 0.330 | 5.59        |
| 54) 46 t-1,3-dichlo      | 0.227 | 0.272 | 0.247 | 0.270 | 0.278 | 0.281 | 0.262 | 8.00        |
| 55) I 47 Chlorobezene-d5 | 0.288 | 0.275 | 0.213 | 0.222 | 0.224 | 0.226 | 0.241 | 13.17       |
| 56) 48 112-tri-Cl-E      |       |       |       |       |       |       |       |             |

(#) = Out of Range  
 E524A002.M

Thu Jul 24 12:41:08 2003

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Initial Calibration

Calibration Files  
 .3 =2-00003.D 2 =2-0002A.D 10 =2-00010.D  
 20 =2-00020.D 40 =2-00040.D 60 =2-00060.D

| Compound                    | .3    | 2     | 10    | 20    | 40    | 60    | Avg   | %RSD  |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 57) 49 13-di-Cl-pro         | 0.436 | 0.432 | 0.347 | 0.357 | 0.359 | 0.353 | 0.381 | 10.91 |
| 58) 50 Et methacryl         | 0.189 | 0.269 | 0.272 | 0.287 | 0.301 | 0.321 | 0.273 | 16.74 |
| 59) 51 di-Br-Cl-met         | 0.422 | 0.341 | 0.275 | 0.296 | 0.304 | 0.309 | 0.325 | 16.16 |
| 60) P 52 bromoform          | 0.222 | 0.192 | 0.159 | 0.171 | 0.181 | 0.187 | 0.185 | 11.70 |
| 61) 53 1,4-dichloro         | 0.405 | 0.396 | 0.312 | 0.330 | 0.340 | 0.344 | 0.354 | 10.53 |
| 62) 54 MIBK                 | 0.132 | 0.144 | 0.134 | 0.144 | 0.155 | 0.166 | 0.146 | 8.89  |
| 63) S 55 toluene-d8         | 1.345 | 1.364 | 1.130 | 1.244 | 1.257 | 1.223 | 1.260 | 6.78  |
| 64) M,C 56 toluene          | 1.448 | 1.627 | 1.315 | 1.441 | 1.448 | 1.412 | 1.448 | 6.98  |
| 65) 57 2-hexanone X         | 0.100 | 0.109 | 0.092 | 0.094 | 0.098 | 0.100 | 0.099 | 5.95  |
| 66) 58 12-dibromoet         | 0.274 | 0.254 | 0.210 | 0.222 | 0.233 | 0.235 | 0.238 | 9.68  |
| 67) 59 tetra-Cl-eth         | 0.496 | 0.464 | 0.378 | 0.427 | 0.424 | 0.408 | 0.433 | 9.68  |
| 68) M,P 60 chlorobenzen     | 1.297 | 1.156 | 0.893 | 0.967 | 0.959 | 0.919 | 1.032 | 15.48 |
| 69) 61 1112-tetra-C         | 0.447 | 0.412 | 0.317 | 0.340 | 0.348 | 0.348 | 0.369 | 13.47 |
| 70) I 62 1,4-Dichlorobenzen | 0.269 | 0.309 | 0.291 | 0.356 | 0.374 | 0.358 | 0.326 | 12.94 |
| 71) 63 1-chlorohexa         | 0.072 | 3.263 | 2.780 | 3.211 | 3.292 | 3.156 | 3.129 | 6.01# |
| 72) C 64 Et-Bz              | 2.292 | 2.598 | 2.175 | 2.438 | 2.422 | 2.268 | 2.365 | 6.37  |
| 73) 65 m/p-Xylenes          | 1.472 | 1.978 | 1.707 | 1.902 | 1.915 | 1.818 | 1.798 | 10.32 |
| 74) 66 styrene              | 1.955 | 2.508 | 2.249 | 2.527 | 2.563 | 2.438 | 2.373 | 9.83  |
| 75) 67 o-xylene             | 0.659 | 0.575 | 0.456 | 0.475 | 0.501 | 0.503 | 0.528 | 14.34 |
| 76) P 68 1122-Tetra-C       | 0.186 | 0.176 | 0.138 | 0.146 | 0.151 | 0.152 | 0.158 | 11.76 |
| 77) 69 123-tri-Cl-P         | 0.953 | 0.876 | 0.706 | 0.798 | 0.823 | 0.806 | 0.827 | 10.01 |
| 78) S 70 4-Br-1-F-Bz        | 2.262 | 3.010 | 2.857 | 3.361 | 3.462 | 3.290 | 3.040 | 14.58 |
| 79) 71 isopropylben         | 0.840 | 0.881 | 0.719 | 0.807 | 0.842 | 0.810 | 0.817 | 6.73  |
| 80) 72 bromobenzene         | 0.038 | 0.078 | 0.075 | 0.082 | 0.094 | 0.095 | 0.077 | 27.12 |
| 81) 92 t-1,4-dichlo         | 0.759 | 0.999 | 0.867 | 1.019 | 1.061 | 1.009 | 0.952 | 12.10 |
| 82) 73 n-propylbenz         | 0.756 | 0.887 | 0.758 | 0.870 | 0.905 | 0.873 | 0.841 | 7.90  |
| 83) 74 2-Cl-Toluene         | 0.853 | 0.955 | 0.757 | 0.860 | 0.880 | 0.830 | 0.856 | 7.52  |
| 84) 75 4-Cl-Toluene         |       |       |       |       |       |       |       |       |

(#) = Out of Range  
 E524A002.M

Thu Jul 24 12:41:09 2003

Response Factor Report GCMS-A

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Initial Calibration

Calibration Files  
 .3 =2-00003.D 2 =2-0002A.D 10 =2-00010.D  
 20 =2-00020.D 40 =2-00040.D 60 =2-00060.D

| Compound            | .3    | 2     | 10    | 20    | 40    | 60    | Avg   | %RSD  |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 85) 76 135-tri-Me-B | 2.031 | 2.864 | 2.465 | 2.815 | 2.851 | 2.678 | 2.617 | 12.38 |
| 86) 77 4-iso-Pr-tol | 2.280 | 3.155 | 2.726 | 3.159 | 3.220 | 2.998 | 2.923 | 12.39 |
| 87) 78 124-tri-Me-B | 2.267 | 3.012 | 2.517 | 2.854 | 2.932 | 2.773 | 2.726 | 10.34 |
| 88) 79 tert-butylbe | 2.041 | 2.391 | 2.526 | 2.636 | 2.748 | 2.655 | 2.499 | 10.24 |
| 89) 80 13-DCB       | 1.989 | 1.888 | 1.484 | 1.667 | 1.680 | 1.592 | 1.717 | 10.95 |
| 90) 81 sec-butylben | 2.715 | 3.632 | 3.274 | 3.857 | 3.936 | 3.690 | 3.517 | 12.95 |
| 91) 82 14-DCB       | 2.240 | 1.859 | 1.457 | 1.644 | 1.684 | 1.613 | 1.749 | 15.60 |
| 92) 83 Cl-benzyl    | 0.164 | 0.159 | 0.155 | 0.169 | 0.181 | 0.165 | 0.165 | 5.41  |
| 93) 84 12-DCB       | 1.762 | 1.734 | 1.326 | 1.464 | 1.479 | 1.408 | 1.529 | 11.67 |
| 94) 85 n-butylbenze | 0.528 | 0.789 | 0.731 | 0.875 | 0.910 | 0.843 | 0.779 | 17.73 |
| 95) 86 12-diBr-2-Cl | 0.110 | 0.104 | 0.091 | 0.102 | 0.118 | 0.120 | 0.108 | 10.09 |
| 96) 87 124-tri-Cl-B | 0.843 | 0.926 | 0.884 | 1.065 | 1.130 | 1.091 | 0.990 | 12.16 |
| 97) 88 naphthalene  | 2.218 | 1.820 | 1.426 | 1.651 | 1.832 | 1.831 | 1.796 | 14.50 |
| 98) 89 hx-Cl-butadi | 0.644 | 0.621 | 0.514 | 0.599 | 0.629 | 0.588 | 0.599 | 7.74  |
| 99) 90 123-Tri-Cl-B | 0.849 | 0.875 | 0.777 | 0.914 | 0.969 | 0.944 | 0.888 | 7.86  |

✓

0.999

0.997

(#) = Out of Range  
 E524A002.M

Thu Jul 24 12:41:09 2003

# INITIAL CALIBRATION SUMMARY

## Method File

E524A002

## Last Calibration Update

Thu Jul 24 12:40:35 2003

|                          |           |                   |    |
|--------------------------|-----------|-------------------|----|
| <u>Level 1 File Name</u> | 2-00003.D | <u>Level 1 ID</u> | .3 |
| <u>Level 2 File Name</u> | 2-0002A.D | <u>Level 2 ID</u> | 2  |
| <u>Level 3 File Name</u> | 2-00010.D | <u>Level 3 ID</u> | 10 |
| <u>Level 4 File Name</u> | 2-00020.D | <u>Level 4 ID</u> | 20 |
| <u>Level 5 File Name</u> | 2-00040.D | <u>Level 5 ID</u> | 40 |
| <u>Level 6 File Name</u> | 2-00060.D | <u>Level 6 ID</u> | 60 |
| <u>Level 7 File Name</u> | 2-00020.D | <u>Level 7 ID</u> | cc |

| <u>Compound Name</u>     | <u>Level 1 Response</u> | <u>Level 2 Response</u> | <u>Level 3 Response</u> | <u>Level 4 Response</u> | <u>Level 5 Response</u> | <u>Level 6 Response</u> | <u>Level 7 Response</u> | <u>Coeff X<sup>0</sup></u> | <u>Coeff X<sup>1</sup> / ave RF</u> | <u>Coeff X<sup>2</sup></u> | <u>R<sup>2</sup> / RSD</u> |
|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------------------------|-------------------------------------|----------------------------|----------------------------|
| 1 Fluorobenzene          | 919393                  | 1006828                 | 1003977                 | 1015499                 | 990930                  | 980047                  | -1                      | -----                      | -----                               | -----                      | -----                      |
| 3 di-Cl-di-F-methane     | 7698                    | 51044                   | 228452                  | 508778                  | 990705                  | 1444214                 | -1                      | 0.0000                     | 0.2510                              | 0.0000                     | 0.0661                     |
| 4 Chloromethane          | 8264                    | 53373                   | 208536                  | 448729                  | 864850                  | 1174857                 | -1                      | 0.0169                     | 0.2027                              | 0.0000                     | 0.9966                     |
| 2 F114                   | 3209                    | 27835                   | 126949                  | 275940                  | 544934                  | 783345                  | -1                      | 0.0000                     | 0.1313                              | 0.0000                     | 0.0645                     |
| 5 vinyl chloride         | 7381                    | 53695                   | 219399                  | 484855                  | 949966                  | 1312837                 | -1                      | 0.0000                     | 0.2424                              | 0.0000                     | 0.0861                     |
| 6 bromomethane           | 3952                    | 25743                   | 105105                  | 228520                  | 411844                  | 626111                  | -1                      | 0.0000                     | 0.1165                              | 0.0000                     | 0.1363                     |
| 7 chloroethane           | 4460                    | 34347                   | 136103                  | 266250                  | 546077                  | 758703                  | -1                      | 0.0000                     | 0.1443                              | 0.0000                     | 0.1208                     |
| 8 tri-Cl-F-methane       | 11754                   | 73985                   | 311036                  | 724847                  | 1412342                 | 1986417                 | -1                      | 0.0000                     | 0.3591                              | 0.0000                     | 0.1076                     |
| 91 Acetonitrile X10      | -1                      | 110646                  | 413272                  | 845923                  | 1639456                 | 2365932                 | -1                      | 0.0000                     | 0.0439                              | 0.0000                     | 0.1416                     |
| 9 acrolein X10           | 9511                    | 67561                   | 262941                  | 513017                  | 937791                  | 1313901                 | -1                      | 0.0306                     | 0.0223                              | 0.0000                     | 0.9978                     |
| 11 acetone X10           | 29124                   | 106138                  | 281400                  | 497276                  | 943071                  | 1241915                 | -1                      | 0.0622                     | 0.0208                              | 0.0000                     | 0.9944                     |
| 12 ethyl ether X5        | 22348                   | 158277                  | 587938                  | 1189867                 | 2188257                 | 2883396                 | -1                      | 0.0885                     | 0.0991                              | 0.0000                     | 0.9929                     |
| 13 11-dichloroethene     | 9522                    | 62800                   | 259067                  | 562011                  | 1088836                 | 1490545                 | -1                      | 0.0000                     | 0.2867                              | 0.0000                     | 0.1231                     |
| 14 Iodomethane           | 7324                    | 57536                   | 244664                  | 532902                  | 1022337                 | 1206486                 | -1                      | 0.0000                     | 0.2534                              | 0.0000                     | 0.1075                     |
| 15 F-113                 | 8636                    | 49466                   | 193654                  | 427782                  | 814332                  | 1086062                 | -1                      | 0.0189                     | 0.1881                              | 0.0000                     | 0.9947                     |
| 16 acrylonitrile X10     | 14700                   | 104060                  | 420553                  | 831510                  | 1601521                 | 2352958                 | -1                      | 0.0000                     | 0.0447                              | 0.0000                     | 0.1361                     |
| 17 carbon disulfide      | 23125                   | 156993                  | 656825                  | 1480814                 | 2862257                 | 3817157                 | -1                      | 0.0000                     | 0.7288                              | 0.0000                     | 0.1000                     |
| 94 Isopropyl Alcoholx10  | 4021                    | 15273                   | 46223                   | 124874                  | 265806                  | 369178                  | -1                      | -0.0027                    | 0.0064                              | 0.0000                     | 0.9954                     |
| 18 methylene chloride    | 36501                   | 97000                   | 257935                  | 510536                  | 960233                  | 1435510                 | -1                      | 0.0322                     | 0.2370                              | 0.0000                     | 0.9996                     |
| 19 t-12-di-Cl-ethene     | 8180                    | 61414                   | 249312                  | 531623                  | 1015155                 | 1488348                 | -1                      | 0.0000                     | 0.2701                              | 0.0000                     | 0.0899                     |
| 20 t-Bu-Me-ether         | 13066                   | 102540                  | 420692                  | 866584                  | 1693079                 | 2598506                 | -1                      | 0.0000                     | 0.4496                              | 0.0000                     | 0.0781                     |
| 95 Tert butyl alcoholx10 | -1                      | 28855                   | 98345                   | 205914                  | 482970                  | 785022                  | -1                      | -0.0326                    | 0.0135                              | 0.0000                     | 0.9918                     |

|                         |       |        |         |         |         |         |    |        |        |        |        |
|-------------------------|-------|--------|---------|---------|---------|---------|----|--------|--------|--------|--------|
| 94 allyl chloride       | -1    | 110646 | 413272  | 845923  | 1216384 | 1660968 | -1 | 0.0000 | 0.3934 | 0.0000 | 0.2697 |
| 21 1,1-dichloroethane   | 14292 | 97373  | 381929  | 825889  | 1598207 | 2404444 | -1 | 0.0000 | 0.4335 | 0.0000 | 0.1252 |
| 97 propionitrile        | -1    | 4103   | 13637   | 33328   | 64498   | 101359  | -1 | 0.0000 | 0.0168 | 0.0000 | 0.1453 |
| 22 c-1,2-di-Cl-ethene   | 8154  | 62676  | 253306  | 533706  | 1019103 | 1499328 | -1 | 0.0000 | 0.2723 | 0.0000 | 0.0912 |
| 23 2,2-Dichloropropane  | 10809 | 72464  | 281116  | 589735  | 1098975 | 1539718 | -1 | 0.0244 | 0.2629 | 0.0000 | 0.9982 |
| 24 Br-Cl-methane        | 4359  | 30212  | 117713  | 250220  | 483734  | 716534  | -1 | 0.0000 | 0.1321 | 0.0000 | 0.1312 |
| 25 chloroform           | 19972 | 106303 | 398005  | 838697  | 1597118 | 2387736 | -1 | 0.0108 | 0.4031 | 0.0000 | 0.9998 |
| 26 tetrahydrofuranX5    | 4965  | 35404  | 154519  | 318868  | 624422  | 946730  | -1 | 0.0000 | 0.0328 | 0.0000 | 0.0666 |
| 98 Diisopropyl ether    | 17882 | 159533 | 636576  | 1326012 | 2521921 | 3767835 | -1 | 0.0000 | 0.6674 | 0.0000 | 0.0923 |
| 27 Di-Br-F-Me (sur)     | -1    | 59230  | 230740  | 486919  | 949109  | 1428311 | -1 | 0.0000 | 0.2492 | 0.0000 | 0.1027 |
| 99 ETBE                 | 12061 | 107588 | 486462  | 1064815 | 2106754 | 3231163 | -1 | 0.0000 | 0.5102 | 0.0000 | 0.0820 |
| 29 1,2-Di-Cl-Et-d4 (S1) | -1    | 50036  | 187219  | 388784  | 757790  | 1126883 | -1 | 0.0000 | 0.2018 | 0.0000 | 0.1296 |
| 30 12-dichloroethane    | 2582  | 18795  | 70404   | 142937  | 277276  | 411282  | -1 | 0.0020 | 0.0695 | 0.0000 | 0.9999 |
| 32 vinyl acetate X5     | 43949 | 379164 | 1608933 | 2957025 | 5653569 | 8226056 | -1 | 0.0000 | 0.3120 | 0.0000 | 0.1153 |
| 92 Nitro Methane(X10)   | -1    | 12060  | 47784   | 111334  | 237578  | 325914  | -1 | 0.0000 | 0.0056 | 0.0000 | 0.0909 |
| 33 2-butanoneMEK X10    | 22369 | 123309 | 444332  | 875377  | 1648493 | 2411259 | -1 | 0.0340 | 0.0406 | 0.0000 | 0.9998 |
| 93 Ethyl Acetate x2     | 9671  | 54370  | 220002  | 434881  | 845931  | 1295021 | -1 | 0.0014 | 0.1088 | 0.0000 | 0.9995 |
| 34 111-trichloroethane  | 13204 | 87716  | 354801  | 785718  | 1524561 | 2222673 | -1 | 0.0000 | 0.4029 | 0.0000 | 0.1136 |
| 35 11-Di-Cl-propene     | 7463  | 61583  | 285223  | 660985  | 1285669 | 1859527 | -1 | 0.0000 | 0.3044 | 0.0000 | 0.0740 |
| 36 benzene              | 30808 | 233485 | 926403  | 1995763 | 3805709 | 5575015 | -1 | 0.0000 | 1.0150 | 0.0000 | 0.0969 |
| 37 CC14                 | 11983 | 79844  | 329846  | 732441  | 1420059 | 2060040 | -1 | 0.0000 | 0.3715 | 0.0000 | 0.1020 |

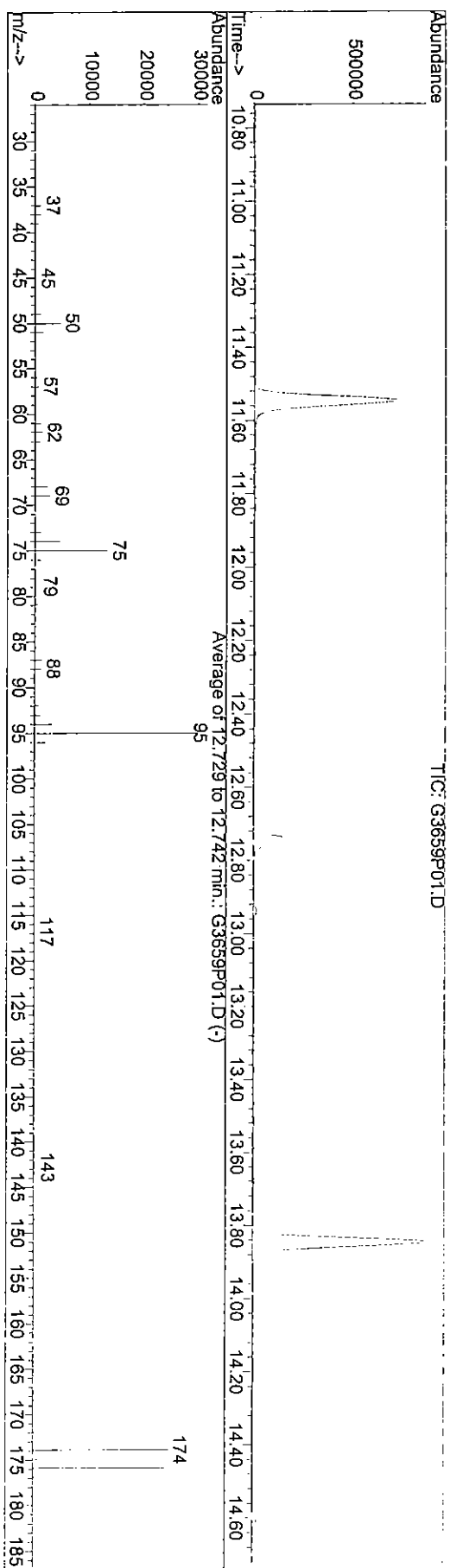
| Compound                 | Level 1  | Level 2  | Level 3  | Level 4  | Level 5  | Level 6  | Level 7  | Coeff            | Coeff                     | Coeff            | R <sup>2</sup> 2 / |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|------------------|---------------------------|------------------|--------------------|
| Name                     | Response | Response | Response | Response | Response | Response | Response | X <sup>2</sup> 0 | X <sup>2</sup> 1 / ave RF | X <sup>2</sup> 2 | RSD                |
| 100 Isobutyl alcoholx10  | 457      | 10371    | 40745    | 87337    | 182637   | 287972   | -1       | -----            | -----                     | -----            | -----              |
| 38 thiophene             | 12985    | 115327   | 473132   | 1025220  | 1999457  | 2960047  | -1       | 0.0000           | 0.5046                    | 0.0000           | 0.0736             |
| 39 12-di-Cl-propane      | 6808     | 50516    | 204989   | 446632   | 875952   | 1293157  | -1       | 0.0000           | 0.2271                    | 0.0000           | 0.0793             |
| 40 trichloroethene       | 9774     | 67466    | 274815   | 633192   | 1246934  | 1815606  | -1       | 0.0000           | 0.3164                    | 0.0000           | 0.0859             |
| 41 dibromomethane        | 4889     | 32002    | 126997   | 270225   | 530196   | 793122   | -1       | 0.0000           | 0.1441                    | 0.0000           | 0.1368             |
| 101 TAME                 | 9699     | 90788    | 421379   | 938326   | 1872529  | 2927534  | -1       | 0.0000           | 0.4424                    | 0.0000           | 0.1161             |
| 42 Br-di-Cl-methane      | 11934    | 72312    | 281223   | 604352   | 1181950  | 1745648  | -1       | 0.0014           | 0.2967                    | 0.0000           | 0.9998             |
| 43 Me-methacrylate       | 1794     | 19729    | 100519   | 228095   | 464768   | 714088   | -1       | -0.0114          | 0.1219                    | 0.0000           | 0.9990             |
| 44 2-ClEt-Vi-ether10     | 2834     | 31796    | 189485   | 514977   | 1130652  | -1       | -1       | -0.0446          | 0.0290                    | 0.0000           | 0.9927             |
| 45 c-13-di-Cl-propene    | 8596     | 71992    | 308098   | 676158   | 1328342  | 1977341  | -1       | 0.0000           | 0.3301                    | 0.0000           | 0.0559             |
| 46 t-1,3-dichloropropene | 6273     | 54825    | 247619   | 547714   | 1100371  | 1653172  | -1       | 0.0000           | 0.2625                    | 0.0000           | 0.0800             |
| 47 Chlorobezene-d5       | 683445   | 775455   | 774184   | 772935   | 739886   | 736062   | -1       | 0.0000           | 1.0000                    | 0.0000           | 0.0000             |

|                     |      |       |        |        |         |         |    |         |        |        |        |
|---------------------|------|-------|--------|--------|---------|---------|----|---------|--------|--------|--------|
| 48 112-tri-Cl-Et    | 5902 | 42713 | 164770 | 343401 | 662895  | 997315  | -1 | 0.0000  | 0.2413 | 0.0000 | 0.1317 |
| 49 13-di-Cl-propane | 8941 | 66977 | 268452 | 552557 | 1062190 | 1558760 | -1 | 0.0000  | 0.3807 | 0.0000 | 0.1091 |
| 50 Et methacrylate  | 3865 | 41714 | 210769 | 443099 | 890456  | 1418605 | -1 | -0.0322 | 0.3197 | 0.0000 | 0.9978 |

| Compound<br>Name           | Level 1<br>Response | Level 2<br>Response | Level 3<br>Response | Level 4<br>Response | Level 5<br>Response | Level 6<br>Response | Level 7<br>Response | Coeff<br>X <sup>0</sup> | Coeff<br>X <sup>1</sup> / ave RF | Coeff<br>X <sup>2</sup> | R <sup>2</sup> /<br>RSD |
|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|----------------------------------|-------------------------|-------------------------|
|                            |                     |                     |                     |                     |                     |                     |                     |                         |                                  |                         |                         |
| 51 di-Br-Cl-methane        | 8661                | 52843               | 213283              | 456818              | 899440              | 1365305             | -1                  | -0.0111                 | 0.3087                           | 0.0000                  | 0.9994                  |
| 52 bromoform               | 4560                | 29809               | 123106              | 263988              | 534402              | 823804              | -1                  | 0.0000                  | 0.1852                           | 0.0000                  | 0.1170                  |
| 53 1,4-dichlorobutane-2    | 8296                | 61397               | 241554              | 510059              | 1005306             | 1519089             | -1                  | 0.0000                  | 0.3544                           | 0.0000                  | 0.1053                  |
| 54 MIBK                    | 2701                | 22334               | 103475              | 222364              | 457366              | 733371              | -1                  | 0.0000                  | 0.1456                           | 0.0000                  | 0.0889                  |
| 55 toluene-d8              | 27570               | 211476              | 874470              | 1923324             | 3719816             | 5400714             | -1                  | 0.0000                  | 1.2603                           | 0.0000                  | 0.0678                  |
| 56 toluene                 | 29681               | 252340              | 1018191             | 2227432             | 4284454             | 6235319             | -1                  | 0.0000                  | 1.4484                           | 0.0000                  | 0.0698                  |
| 57 2-hexanone X5           | 10224               | 84522               | 356146              | 728526              | 1453530             | 2205707             | -1                  | 0.0000                  | 0.0989                           | 0.0000                  | 0.0595                  |
| 58 12-dibromoethane        | 5621                | 39459               | 162435              | 343609              | 688415              | 1038913             | -1                  | 0.0000                  | 0.2381                           | 0.0000                  | 0.0968                  |
| 59 tetra-Cl-ethene         | 10167               | 72027               | 292262              | 659769              | 1256084             | 1800306             | -1                  | 0.0000                  | 0.4328                           | 0.0000                  | 0.0968                  |
| 60 chlorobenzene           | 26600               | 179300              | 691236              | 1494861             | 2837497             | 4059222             | -1                  | 0.0338                  | 0.9255                           | 0.0000                  | 0.9991                  |
| 61 1112-tetra-Cl-Et        | 9159                | 63898               | 245258              | 525072              | 1031299             | 1537036             | -1                  | 0.0000                  | 0.3686                           | 0.0000                  | 0.1347                  |
| 62 1,4-Dichlorobenzene-d4  | 358277              | 419640              | 407774              | 393961              | 367099              | 365124              | -1                  | 0.0000                  | 1.0000                           | 0.0000                  | 0.0000                  |
| 63 1-chlorohexane          | 2893                | 25946               | 118729              | 280119              | 548810              | 784184              | -1                  | 0.0000                  | 0.3261                           | 0.0000                  | 0.1294                  |
| 64 Et-Bz                   | 33015               | 273886              | 1133719             | 2529977             | 4833949             | 6913463             | -1                  | 0.0000                  | 3.1290                           | 0.0000                  | 0.0601                  |
| 65 m/p-Xylenes X2          | 49281               | 436018              | 1773476             | 3842318             | 7112016             | 9936549             | -1                  | 0.0000                  | 2.3654                           | 0.0000                  | 0.0637                  |
| 66 styrene                 | 15818               | 166023              | 695954              | 1498467             | 2811895             | 3981902             | -1                  | 0.0000                  | 1.7965                           | 0.0000                  | 0.1032                  |
| 67 o-xylene                | 21010               | 210456              | 917264              | 1990843             | 3763083             | 5341093             | -1                  | 0.0000                  | 2.3732                           | 0.0000                  | 0.0983                  |
| 68 1122-Tetra-Cl-Et        | 7086                | 48249               | 186045              | 374484              | 736112              | 1101133             | -1                  | 0.0000                  | 0.5283                           | 0.0000                  | 0.1434                  |
| 69 123-tri-Cl-Pr           | 1994                | 14801               | 56224               | 114784              | 222436              | 332760              | -1                  | 0.0000                  | 0.1581                           | 0.0000                  | 0.1176                  |
| 70 4-Br-1-F-Bz (S3)        | 10243               | 73535               | 287803              | 629095              | 1208574             | 1766234             | -1                  | 0.0000                  | 0.8271                           | 0.0000                  | 0.1001                  |
| 71 isopropylbenzene        | 24316               | 252585              | 1164869             | 2648278             | 5083237             | 7208570             | -1                  | 0.0000                  | 3.0403                           | 0.0000                  | 0.1458                  |
| 72 bromobenzene            | 9030                | 73980               | 293172              | 635461              | 1236729             | 1774887             | -1                  | 0.0000                  | 0.8166                           | 0.0000                  | 0.0673                  |
| 92 t-1,4-dichloro-2-butene | 406                 | 6524                | 30509               | 64687               | 137632              | 207953              | -1                  | -0.0118                 | 0.0961                           | 0.0000                  | 0.9978                  |
| 73 n-propylbenzene         | 8157                | 83853               | 353478              | 802663              | 1558540             | 2210026             | -1                  | 0.0000                  | 0.9523                           | 0.0000                  | 0.1210                  |
| 74 2-Cl-Toluene            | 8123                | 74427               | 309252              | 685694              | 1328259             | 1912837             | -1                  | 0.0000                  | 0.8415                           | 0.0000                  | 0.0790                  |
| 75 4-Cl-Toluene            | 9172                | 80121               | 308786              | 677984              | 1291985             | 1819259             | -1                  | 0.0000                  | 0.8560                           | 0.0000                  | 0.0752                  |
| 76 135-tri-Me-Benzene      | 21830               | 240336              | 1005234             | 2217776             | 4186569             | 5867539             | -1                  | 0.0000                  | 2.6173                           | 0.0000                  | 0.1238                  |
| 77 4-iso-Pr-toluene        | 24508               | 264794              | 1111631             | 2489320             | 4727712             | 6567533             | -1                  | 0.0000                  | 2.9230                           | 0.0000                  | 0.1239                  |
| 78 124-tri-Me-Benzene      | 24365               | 252796              | 1026195             | 2248874             | 4305294             | 6074118             | -1                  | 0.0000                  | 2.7257                           | 0.0000                  | 0.1034                  |
| 79 tert-butylbenzene       | 21932               | 200692              | 1030129             | 2077031             | 4034706             | 5816456             | -1                  | 0.0000                  | 2.4995                           | 0.0000                  | 0.1024                  |

|                     |       |        |         |         |         |         |    |         |        |        |        |
|---------------------|-------|--------|---------|---------|---------|---------|----|---------|--------|--------|--------|
| 80 13-DCB           | 21374 | 158442 | 605258  | 1313556 | 2467081 | 3468098 | -1 | 0.0000  | 1.7167 | 0.0000 | 0.1095 |
| 81 sec-butylbenzene | 29181 | 304851 | 1334960 | 3039109 | 5779243 | 8084394 | -1 | 0.0000  | 3.5174 | 0.0000 | 0.1295 |
| 82 14-DCB           | 24079 | 155998 | 594167  | 1295125 | 2472135 | 3533637 | -1 | -0.0003 | 1.6325 | 0.0000 | 0.9988 |
| 83 Cl-benzyl        | 1764  | 13306  | 63403   | 132793  | 265795  | 361085  | -1 | 0.0000  | 0.1654 | 0.0000 | 0.0541 |
| 84 12-DCB           | 18942 | 145496 | 540526  | 1153351 | 2171646 | 3083911 | -1 | 0.0000  | 1.5286 | 0.0000 | 0.1167 |
| 85 n-butylbenzene   | 5679  | 66251  | 298215  | 689097  | 1335543 | 1846727 | -1 | -0.0178 | 0.8660 | 0.0000 | 0.9968 |
| 86 12-diBr-2-Cl-Pra | 1180  | 8757   | 37194   | 80335   | 173925  | 263112  | -1 | 0.0000  | 0.1076 | 0.0000 | 0.1009 |
| 87 124-tri-Cl-Bz    | 9061  | 77700  | 360446  | 838928  | 1658990 | 2390948 | -1 | 0.0000  | 0.9898 | 0.0000 | 0.1216 |
| 88 naphthalene      | 23839 | 152715 | 581293  | 1300980 | 2689379 | 4011635 | -1 | 0.0000  | 1.7961 | 0.0000 | 0.1450 |
| 89 hx-Cl-butadiene  | 6922  | 52135  | 209577  | 472099  | 923440  | 1288580 | -1 | 0.0000  | 0.5992 | 0.0000 | 0.0774 |
| 90 123-Tri-Cl-Bz    | 9124  | 73440  | 317007  | 719921  | 1423460 | 2068944 | -1 | 0.0000  | 0.8881 | 0.0000 | 0.0786 |

Data File : C:\MSDCHEM\1\DATA\03G3659\G3659P01.D Vial: 1  
 Acq On : 11 Aug 2003 10:14 am Operator: zou  
 Sample : ##03g3659,w 50ng Inst : GCMS-A  
 Misc : Multiplr: 1.00  
 MS Integration Params: Lscint.P  
 Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2



Spectrum Information: Average of 12.729 to 12.742 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result |
|-------------|--------------|--------------|--------------|-----------|---------|--------|
| 50          | 95           | 15           | 40           | 15.5      | 4665    | PASS   |
| 75          | 95           | 30           | 60           | 44.1      | 13288   | PASS   |
| 95          | 95           | 100          | 100          | 100.0     | 30159   | PASS   |
| 96          | 95           | 5            | 9            | 7.5       | 2271    | PASS   |
| 173         | 174          | 0.00         | 2            | 0.5       | 114     | PASS   |
| 174         | 95           | 50           | 100          | 82.3      | 24811   | PASS   |
| 175         | 174          | 5            | 9            | 8.0       | 1991    | PASS   |
| 176         | 174          | 95           | 101          | 97.9      | 24285   | PASS   |
| 177         | 176          | 5            | 9            | 6.3       | 1535    | PASS   |

## FORM-5A

Applied P &amp; 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: 034534

Project ID: JPL

BFB Inj. Date: 08/11/03

Batch No: 03G3659

BFB Inj. Time: 10:14

Sequence No: 03G3659

Project No: 04-4428.10

Instrument ID: A

GC Column: HP-VOC

Data File Name: G3659P01

Heated Purge: (Y/N) N

Column ID: 0.20 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  | 03G3659-CCV-01   | 03G3659-CCV-01 | G3659Q01       | 08/11/03      | 10:40         |
| 2  | 03G3659-LCS-01   | 03G3659-LCS-01 | G3659L01       | 08/11/03      | 11:06         |
| 3  | 03G3659-MB-01    | 03G3659-MB-01  | G3659K01       | 08/11/03      | 13:18         |
| 4  | TB-6-8-7-03      | 03-4534-12     | 4534-12        | 08/11/03      | 13:45         |
| 5  | EB-6-8-7-03      | 03-4534-1      | 4534-01        | 08/11/03      | 14:11         |
| 6  | MW-24-1          | 03-4534-8      | 4534-08        | 08/11/03      | 15:04         |
| 7  | MW-24-2          | 03-4534-9      | 4534-09        | 08/11/03      | 15:31         |
| 8  | MW-24-3          | 03-4534-10     | 4534-10        | 08/11/03      | 15:57         |
| 9  | MW-12-4MS        | 03-4572-6MS    | G3659M02       | 08/11/03      | 21:14         |
| 10 | MW-12-4MSD       | 03-4572-6MSD   | G3659N02       | 08/11/03      | 21:40         |
| 11 |                  |                |                |               |               |
| 12 |                  |                |                |               |               |
| 13 |                  |                |                |               |               |
| 14 |                  |                |                |               |               |
| 15 |                  |                |                |               |               |
| 16 |                  |                |                |               |               |
| 17 |                  |                |                |               |               |
| 18 |                  |                |                |               |               |
| 19 |                  |                |                |               |               |
| 20 |                  |                |                |               |               |
| 21 |                  |                |                |               |               |
| 22 |                  |                |                |               |               |
| 23 |                  |                |                |               |               |
| 24 |                  |                |                |               |               |
| 25 |                  |                |                |               |               |

# Continuing Calibration Concentration Summary

Data File G3659Q01

Method File E524A002

| <u>Compound Name</u>     | <u>Amount</u> | <u>Actual</u> | <u>Units</u> | <u>%Dev</u> | <u>Target Response</u> |
|--------------------------|---------------|---------------|--------------|-------------|------------------------|
| 1 Fluorobenzene          | 10            | 10.00         | ppb          | 0.00        | 764133                 |
| 3 di-Cl-di-F-methane     | 20            | 17.70         | ppb          | 11.52       | 339443                 |
| 4 Chloromethane          | 20            | 15.64         | ppb          | 21.82       | 255103                 |
| 2 F114                   | 20            | 19.72         | ppb          | 1.42        | 197749                 |
| 5 vinyl chloride         | 20            | 17.40         | ppb          | 12.98       | 322358                 |
| 6 bromomethane           | 20            | 12.76         | ppb          | 36.22       | 113517                 |
| 7 chloroethane           | 20            | 18.70         | ppb          | 6.52        | 206129                 |
| 8 tri-Cl-F-methane       | 20            | 19.13         | ppb          | 4.34        | 524924                 |
| 91 Acetonitrile X10      | 200           | 174.31        | ppb          | 12.84       | 584362                 |
| 9 acrolein X10           | 200           | 197.96        | ppb          | 1.02        | 360446                 |
| 11 acetone X10           | 200           | 292.02        | ppb          | 46.01       | 511834                 |
| 12 ethyl ether X5        | 100           | 102.57        | ppb          | 2.57        | 844649                 |
| 13 11-dichloroethene     | 20            | 18.56         | ppb          | 7.20        | 406590                 |
| 14 Iodomethane           | 20            | 8.59          | ppb          | 57.07       | 166238                 |
| 15 F-113                 | 20            | 21.13         | ppb          | 5.64        | 318205                 |
| 16 acrylonitrile X10     | 200           | 166.07        | ppb          | 16.97       | 567276                 |
| 17 carbon disulfide      | 20            | 17.54         | ppb          | 12.31       | 976666                 |
| 94 Isopropyl Alcoholx10  | 200           | 166.25        | ppb          | 16.87       | 79517                  |
| 18 methylene chloride    | 20            | 18.96         | ppb          | 5.18        | 368132                 |
| 19 t-12-di-Cl-ethene     | 20            | 17.88         | ppb          | 10.62       | 368993                 |
| 20 t-Bu-Me-ether         | 20            | 17.60         | ppb          | 12.00       | 604643                 |
| 95 Tert butyl alcoholx10 | 200           | 169.66        | ppb          | 15.17       | 149992                 |
| 94 allyl chloride        | 20            | 19.44         | ppb          | 2.80        | 584362                 |
| 21 11-dichloroethane     | 20            | 17.33         | ppb          | 13.35       | 574058                 |
| 97 propionitrile         | 20            | 18.62         | ppb          | 6.90        | 23869                  |
| 22 c-12-di-Cl-ethene     | 20            | 18.24         | ppb          | 8.82        | 379501                 |
| 23 22-Dichloropropane    | 20            | 24.79         | ppb          | 23.94       | 516622                 |
| 24 Br-Cl-methane         | 20            | 17.45         | ppb          | 12.74       | 176116                 |
| 25 chloroform            | 20            | 19.68         | ppb          | 1.62        | 614292                 |
| 26 tetrahydrofuranX5     | 100           | 82.15         | ppb          | 17.85       | 206156                 |
| 98 Diisopropyl ether     | 20            | 17.85         | ppb          | 10.77       | 910176                 |
| 27 Di-Br-F-Me (surr)     | 20            | 18.81         | ppb          | 5.97        | 358122                 |
| 99 ETBE                  | 20            | 18.67         | ppb          | 6.66        | 727874                 |
| 29 1,2-Di-Cl-Et-d4 (S1)  | 20            | 18.49         | ppb          | 7.56        | 285144                 |
| 30 12-dichloroethane     | 20            | 19.93         | ppb          | 0.37        | 107389                 |
| 32 vinyl acetate X5      | 100           | 93.14         | ppb          | 6.86        | 2220559                |
| 92 Nitro Methane(x10)    | 200           | 186.18        | ppb          | 6.91        | 79006                  |
| 33 2-butanoneMEK X10     | 200           | 210.61        | ppb          | 5.30        | 679357                 |
| 93 Ethyl Acetate x2      | 40            | 32.96         | ppb          | 17.60       | 275070                 |
| 34 111-trichloroethane   | 20            | 18.79         | ppb          | 6.07        | 578308                 |
| 35 11-Di-Cl-propene      | 20            | 19.70         | ppb          | 1.52        | 458172                 |
| 36 benzene               | 20            | 17.89         | ppb          | 10.56       | 1387345                |
| 37 CCl4                  | 20            | 19.69         | ppb          | 1.57        | 558782                 |

| <u>Compound Name</u>     | <u>Amount</u> | <u>Actual</u> | <u>Units</u> | <u>%Dev</u> | <u>Target Response</u> |
|--------------------------|---------------|---------------|--------------|-------------|------------------------|
| 100 Isobutyl alcoholx10  | 200           | 158.40        | ppb          | 20.80       | 55273                  |
| 38 thiophene             | 20            | 18.62         | ppb          | 6.90        | 717865                 |
| 39 12-di-Cl-propane      | 20            | 17.61         | ppb          | 11.94       | 305636                 |
| 40 trichloroethene       | 20            | 18.51         | ppb          | 7.44        | 447547                 |
| 41 dibromomethane        | 20            | 17.43         | ppb          | 12.86       | 191858                 |
| 101 TAME                 | 20            | 18.74         | ppb          | 6.29        | 633612                 |
| 42 Br-di-Cl-methane      | 20            | 19.18         | ppb          | 4.10        | 435941                 |
| 43 Me-methacrylate       | 20            | 16.44         | ppb          | 17.82       | 144340                 |
| 44 2-ClEt-Vi-ether10     | 200           | 98.28         | ppb          | 50.86       | 183472                 |
| 45 c-13-di-Cl-propene    | 20            | 19.55         | ppb          | 2.27        | 492981                 |
| 46 t-1,3-dichloropropene | 20            | 20.01         | ppb          | 0.07        | 401404                 |
| 47 Chlorobezene-d5       | 10            | 10.00         | ppb          | 0.00        | 595141                 |
| 48 112-tri-Cl-Et         | 20            | 17.14         | ppb          | 14.32       | 246121                 |
| 49 13-di-Cl-propane      | 20            | 17.42         | ppb          | 12.88       | 394744                 |
| 50 Et methacrylate       | 20            | 17.26         | ppb          | 13.72       | 309091                 |

| <u>Compound Name</u>       | <u>Amount</u> | <u>Actual</u> | <u>Units</u> | <u>%Dev</u> | <u>Target Response</u> |
|----------------------------|---------------|---------------|--------------|-------------|------------------------|
| 51 di-Br-Cl-methane        | 20            | 18.64         | ppb          | 6.78        | 335964                 |
| 52 bromoform               | 20            | 17.42         | ppb          | 12.89       | 192070                 |
| 53 1,4-dichlorobutane-2    | 20            | 17.02         | ppb          | 14.88       | 359028                 |
| 54 MIBK                    | 20            | 16.01         | ppb          | 19.95       | 138771                 |
| 55 toluene-d8              | 20            | 18.41         | ppb          | 7.94        | 1380968                |
| 56 toluene                 | 20            | 18.32         | ppb          | 8.39        | 1579323                |
| 57 2-hexanone X5           | 100           | 86.48         | ppb          | 13.52       | 508775                 |
| 58 12-dibromoethane        | 20            | 17.13         | ppb          | 14.35       | 242728                 |
| 59 tetra-Cl-ethene         | 20            | 18.62         | ppb          | 6.88        | 479686                 |
| 60 chlorobenzene           | 20            | 19.60         | ppb          | 2.02        | 1099490                |
| 61 1112-tetra-Cl-Et        | 20            | 17.79         | ppb          | 11.03       | 390340                 |
| 62 1,4-Dichlorobenzene-d4  | 10            | 10.00         | ppb          | 0.00        | 318055                 |
| 63 1-chlorohexane          | 20            | 19.99         | ppb          | 0.07        | 207296                 |
| 64 Et-Bz                   | 20            | 18.55         | ppb          | 7.27        | 1845608                |
| 65 m/p-Xylenes X2          | 40            | 37.95         | ppb          | 5.12        | 2855210                |
| 66 styrene                 | 20            | 19.20         | PPB          | 4.02        | 1097995                |
| 67 o-xylene                | 20            | 19.42         | ppb          | 2.88        | 1466176                |
| 68 1122-Tetra-Cl-Et        | 20            | 15.78         | ppb          | 21.12       | 265064                 |
| 69 123-tri-Cl-Pr           | 20            | 16.52         | ppb          | 17.38       | 83112                  |
| 70 4-Br-1-F-Bz (S3)        | 20            | 17.74         | ppb          | 11.29       | 466731                 |
| 71 isopropylbenzene        | 20            | 20.19         | ppb          | 0.96        | 1952530                |
| 72 bromobenzene            | 20            | 18.09         | ppb          | 9.54        | 469862                 |
| 92 t-1,4-dichloro-2-butene | 20            | 17.90         | ppb          | 10.49       | 50934                  |
| 73 n-propylbenzene         | 20            | 19.96         | ppb          | 0.22        | 604443                 |
| 74 2-Cl-Toluene            | 20            | 19.12         | ppb          | 4.40        | 511745                 |
| 75 4-Cl-Toluene            | 20            | 18.85         | ppb          | 5.76        | 513142                 |
| 76 135-tri-Me-Benzene      | 20            | 20.09         | ppb          | 0.46        | 1672635                |
| 77 4-iso-Pr-toluene        | 20            | 20.52         | ppb          | 2.59        | 1907530                |
| 78 124-tri-Me-Benzene      | 20            | 19.69         | ppb          | 1.53        | 1707247                |
| 79 tert-butylbenzene       | 20            | 19.74         | ppb          | 1.28        | 1569659                |
| 80 13-DCB                  | 20            | 18.08         | ppb          | 9.59        | 987293                 |
| 81 sec-butylbenzene        | 20            | 20.38         | ppb          | 1.88        | 2279521                |

|                     |    |       |     |       |        |
|---------------------|----|-------|-----|-------|--------|
| 82 14-DCB           | 20 | 18.83 | ppb | 5.84  | 977724 |
| 83 Cl-benzyl        | 20 | 24.78 | ppb | 23.91 | 130389 |
| 84 12-DCB           | 20 | 17.69 | ppb | 11.57 | 859875 |
| 85 n-butylbenzene   | 20 | 19.56 | ppb | 2.19  | 533156 |
| 86 12-diBr-2-Cl-Pra | 20 | 16.72 | ppb | 16.42 | 57226  |
| 87 124-tri-Cl-Bz    | 20 | 20.19 | ppb | 0.96  | 635630 |
| 88 naphthalene      | 20 | 16.78 | ppb | 16.09 | 958708 |
| 89 hx-Cl-butadiene  | 20 | 19.46 | ppb | 2.70  | 370879 |
| 90 123-Tri-Cl-Bz    | 20 | 19.27 | ppb | 3.64  | 544416 |

Average D % 9.9459377

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3659\G3659Q01.D  
Acq On : 11 Aug 2003 10:40 am  
Sample : f=1  
Misc :  
MS Integration Params: Lscint.p

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

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
Last Update : Thu Jul 24 12:40:35 2003  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound                     | AVGRF | CCRF  | %Dev Area | % Dev(min) |
|------------------------------|-------|-------|-----------|------------|
| 1 I 1 Fluorobenzene          | 1.000 | 1.000 | 0.0       | 75 0.02    |
| 2 3 di-Cl-di-F-methane       | 0.251 | 0.222 | 11.6      | 67 0.04    |
| 3 P 4 Chloromethane          | 0.235 | 0.167 | 28.9#     | 57 0.04    |
| 4 2 F114                     | 0.131 | 0.129 | 1.5       | 72 0.04    |
| 5 C 5 vinyl chloride         | 0.242 | 0.211 | 12.8      | 66 0.04    |
| 6 6 bromomethane             | 0.116 | 0.074 | 36.2#     | 50# 0.04   |
| 7 7 chloroethane             | 0.144 | 0.135 | 6.2       | 77 0.03    |
| 8 8 tri-Cl-F-methane         | 0.359 | 0.343 | 4.5       | 72 0.04    |
| 9 91 Acetonitrile X10        | 0.044 | 0.038 | 13.6      | 69 0.03    |
| 10 9 acrolein X10            | 0.028 | 0.024 | 14.3      | 70 0.04    |
| 11 11 acetone X10            | 0.043 | 0.033 | 23.3#     | 103 0.04   |
| 12 12 ethyl ether X5         | 0.127 | 0.111 | 12.6      | 71 0.04    |
| 13 M, C 13 11-dichloroethene | 0.287 | 0.266 | 7.3       | 72 0.04    |
| 14 14 Iodomethane            | 0.253 | 0.109 | 56.9#     | 31# 0.04   |
| 15 15 F-113                  | 0.225 | 0.208 | 7.6       | 74 0.04    |
| 16 16 acrylonitrile X10      | 0.045 | 0.037 | 17.8      | 68 0.03    |
| 17 17 carbon disulfide       | 0.729 | 0.639 | 12.3      | 66 0.04    |
| 18 94 Isopropyl Alcoholx10   | 0.008 | 0.005 | 37.5#     | 64 0.10    |
| 19 18 methylene chloride     | 0.467 | 0.241 | 48.4#     | 72 0.04    |
| 20 19 t-12-di-Cl-ethene      | 0.270 | 0.241 | 10.7      | 69 0.04    |
| 21 20 t-Bu-Me-ether          | 0.450 | 0.396 | 12.0      | 70 0.04    |
| 22 95 Tert butyl alcoholx10  | 0.012 | 0.010 | 16.7      | 73 0.06    |
| 23 94 allyl chloride         | 0.393 | 0.382 | 2.8       | 69 0.03    |
| 24 P 21 11-dichloroethane    | 0.433 | 0.376 | 13.2      | 70 0.03    |
| 25 97 propionitrile          | 0.017 | 0.016 | 5.9       | 72 0.03    |
| 26 22 c-12-di-Cl-ethene      | 0.272 | 0.248 | 8.8       | 71 0.02    |

(#) = Out of Range

G3659Q01.D E524A002.M Mon Aug 11 16:02:15 2003

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3659\G3659Q01.D  
 Acq On : 11 Aug 2003 10:40 am  
 Sample : f=1  
 Misc :  
 MS Integration Params: Lscint.p

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

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P &ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound                     | AvgRF | CCRF  | %Dev Area | % Dev(min) |
|------------------------------|-------|-------|-----------|------------|
| 27 23 22-Dichloropropane     | 0.310 | 0.338 | -9.0      | 88 0.03    |
| 28 24 Br-Cl-methane          | 0.132 | 0.115 | 12.9      | 70 0.02    |
| 29 C 25 chloroform           | 0.478 | 0.402 | 15.9      | 73 0.03    |
| 30 26 tetrahydrofuranX5      | 0.033 | 0.027 | 18.2      | 65 0.02    |
| 31 98 Disopropyl ether       | 0.667 | 0.596 | 10.6      | 69 0.02    |
| 32 S 27 Di-Br-F-Me (surr)    | 0.249 | 0.234 | 6.0       | 74 0.03    |
| 33 99 ETBE                   | 0.510 | 0.476 | 6.7       | 68 0.02    |
| 34 S 29 1,2-Di-Cl-Et-d4 (S1) | 0.202 | 0.187 | 7.4       | 73 0.03    |
| 35 30 12-dichloroethane      | 0.078 | 0.070 | 10.3      | 75 0.02    |
| 36 32 vinyl acetate X5       | 0.312 | 0.291 | 6.7       | 75 0.03    |
| 37 92 Nitro Methane(x10)     | 0.006 | 0.005 | 16.7      | 71 0.03    |
| 38 33 2-butanoneMEK X10      | 0.052 | 0.044 | 15.4      | 78 0.03    |
| 39 93 Ethyl Acetate x2       | 0.124 | 0.090 | 27.4#     | 63 0.02    |
| 40 34 111-trichloroethane    | 0.403 | 0.378 | 6.2       | 74 0.02    |
| 41 35 11-Di-Cl-propene       | 0.304 | 0.300 | 1.3       | 69 0.02    |
| 42 M 36 benzene              | 1.015 | 0.908 | 10.5      | 70 0.02    |
| 43 37 CCl4                   | 0.371 | 0.366 | 1.3       | 76 0.02    |
| 44 100 Isobutyl alcoholx10   | 0.004 | 0.004 | 0.0       | 63 -0.22   |
| 45 38 thiophene              | 0.505 | 0.470 | 6.9       | 70 0.02    |
| 46 C 39 12-di-Cl-propane     | 0.227 | 0.200 | 11.9      | 68 0.02    |
| 47 M 40 trichloroethene      | 0.316 | 0.293 | 7.3       | 71 0.01    |
| 48 41 dibromomethane         | 0.144 | 0.126 | 12.5      | 71 0.01    |
| 49 101 TAME                  | 0.442 | 0.415 | 6.1       | 68 0.02    |
| 50 42 Br-di-Cl-methane       | 0.327 | 0.285 | 12.8      | 72 0.01    |
| 51 43 Me-methacrylate        | 0.102 | 0.094 | 7.8       | 63 0.01    |
| 52 44 2-ClEt-Vi-ether10      | 0.020 | 0.012 | 40.0#     | 36# 0.00   |

(#) = Out of Range

G3659Q01.D E524A002.M

Mon Aug 11 16:02:16 2003

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3659\G3659Q01.D Vial: 2  
 Acq On : 11 Aug 2003 10:40 am Operator: zou  
 Sample : f=1 Inst : GCMS-A  
 Misc : Multiplr: 1.00  
 MS Integration Params: Iscint.p

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P &ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound                       | AVGRF | CCRF  | %Dev Area | % Dev(min) |
|--------------------------------|-------|-------|-----------|------------|
| 53 45 c-13-di-Cl-propene       | 0.330 | 0.323 | 2.1       | 73 0.01    |
| 54 46 t-1,3-dichloropropene    | 0.262 | 0.263 | -0.4      | 73 0.00    |
| 55 I 47 Chlorobezene-d5        | 1.000 | 1.000 | 0.0       | 77 0.00    |
| 56 48 112-tri-Cl-Et            | 0.241 | 0.207 | 14.1      | 72 0.00    |
| 57 49 13-di-Cl-propane         | 0.381 | 0.332 | 12.9      | 71 0.00    |
| 58 50 Et methacrylate          | 0.273 | 0.260 | 4.8       | 70 0.00    |
| 59 51 di-Br-Cl-methane         | 0.325 | 0.282 | 13.2      | 74 0.00    |
| 60 P 52 bromoform              | 0.185 | 0.161 | 13.0      | 73 0.00    |
| 61 53 1,4-dichlorobutane-2     | 0.354 | 0.302 | 14.7      | 70 0.00    |
| 62 54 MIBK                     | 0.146 | 0.117 | 19.9      | 62 0.00    |
| 63 s 55 toluene-d8             | 1.260 | 1.160 | 7.9       | 72 0.01    |
| 64 M,C 56 toluene              | 1.448 | 1.327 | 8.4       | 71 0.00    |
| 65 57 2-hexanone X5            | 0.099 | 0.085 | 14.1      | 70 0.00    |
| 66 58 12-dibromoethane         | 0.238 | 0.204 | 14.3      | 71 0.00    |
| 67 59 tetra-Cl-ethene          | 0.433 | 0.403 | 6.9       | 73 0.00    |
| 68 M,P 60 chlorobenzene        | 1.032 | 0.924 | 10.5      | 74 0.00    |
| 69 61 1112-tetra-Cl-Et         | 0.369 | 0.328 | 11.1      | 74 0.00    |
| 70 I 62 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0       | 81 0.00    |
| 71 63 1-chlorohexane           | 0.326 | 0.326 | 0.0       | 74 0.00    |
| 72 C 64 Et-Bz                  | 3.129 | 2.901 | 7.3       | 73 0.00    |
| 73 65 m/p-Xylenes X2           | 2.365 | 2.244 | 5.1       | 74 0.00    |
| 74 66 styrene                  | 1.798 | 1.726 | 4.0       | 73 0.00    |
| 75 67 o-xylene                 | 2.373 | 2.305 | 2.9       | 74 0.00    |
| 76 p 68 1122-Tetra-Cl-Et       | 0.528 | 0.417 | 21.0#     | 71 0.00    |

(#) = Out of Range

G3659Q01.D E524A002.M Mon Aug 11 16:02:17 2003

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3659\G3659Q01.D  
 Acq On : 11 Aug 2003 10:40 am  
 Sample : f=1  
 Misc :  
 MS Integration Params: Lscint.p  
 Vial: 2  
 Operator: zou  
 Inst : GCMS-A  
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Multiple Level Calibration

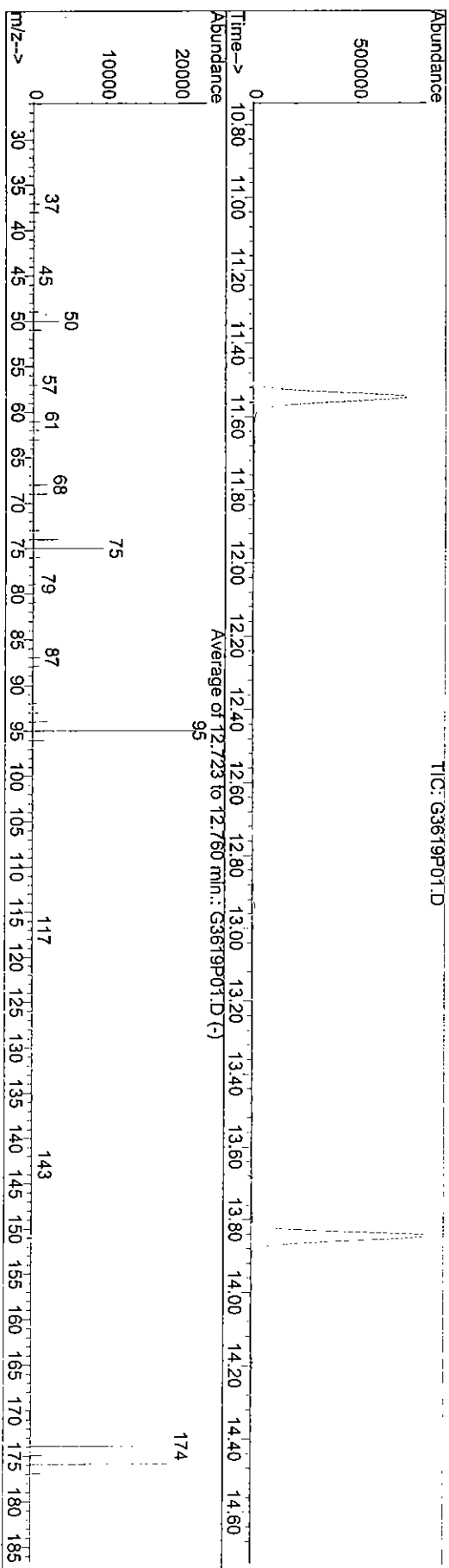
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound                      | AvgRF | CCRF  | %Dev   | Area% Dev(min) |
|-------------------------------|-------|-------|--------|----------------|
| 77 69 123-tri-Cl-Pr           | 0.158 | 0.131 | 17.1   | 72 0.00        |
| 78 S 70 4-Br-1-F-Bz (S3)      | 0.827 | 0.734 | 11.2   | 74 0.00        |
| 79 71 isopropylbenzene        | 3.040 | 3.069 | -1.0   | 74 0.00        |
| 80 72 bromobenzene            | 0.817 | 0.739 | 9.5    | 74 0.00        |
| 81 92 t-1,4-dichloro-2-butene | 0.077 | 0.080 | -3.9   | 79 0.00        |
| 82 73 n-propylbenzene         | 0.952 | 0.950 | 0.2    | 75 0.00        |
| 83 74 2-Cl-Toluene            | 0.841 | 0.804 | 4.4    | 75 0.00        |
| 84 75 4-Cl-Toluene            | 0.856 | 0.807 | 5.7    | 76 0.00        |
| 85 76 135-tri-Me-Benzene      | 2.617 | 2.629 | -0.5   | 75 0.00        |
| 86 77 4-iso-Pr-toluene        | 2.923 | 2.999 | -2.6   | 77 0.00        |
| 87 78 124-tri-Me-Benzene      | 2.726 | 2.684 | 1.5    | 76 0.00        |
| 88 79 tert-butylbenzene       | 2.499 | 2.468 | 1.2    | 76 0.00        |
| 89 80 13-DCB                  | 1.717 | 1.552 | 9.6    | 75 0.00        |
| 90 81 sec-butylbenzene        | 3.517 | 3.584 | -1.9   | 75 0.00        |
| 91 82 14-DCB                  | 1.749 | 1.537 | 12.1   | 75 0.00        |
| 92 83 Cl-benzyl               | 0.165 | 0.205 | -24.2# | 98 0.00        |
| 93 84 12-DCB                  | 1.529 | 1.352 | 11.6   | 75 0.00        |
| 94 85 n-butylbenzene          | 0.779 | 0.838 | -7.6   | 77 0.00        |
| 95 86 12-diBr-2-Cl-Pra        | 0.108 | 0.090 | 16.7   | 71 0.00        |
| 96 87 124-tri-Cl-Bz           | 0.990 | 0.999 | -0.9   | 76 0.00        |
| 97 88 naphthalene             | 1.796 | 1.507 | 16.1   | 74 0.00        |
| 98 89 hx-Cl-butadiene         | 0.599 | 0.583 | 2.7    | 79 0.00        |
| 99 90 123-Tri-Cl-Bz           | 0.888 | 0.856 | 3.6    | 76 0.00        |

(#) = Out of Range  
 G3659Q01.D E524A002.M  
 SPCC's out = 0 CCC's out = 0  
 Mon Aug 11 16:02:17 2003

Data File : C:\MSDCHEM\1\DATA\03G3619\G3619P01.D  
 Acq On : 8 Aug 2003 10:20 am  
 Sample : ##03g3619,w 50ng  
 Misc :  
 MS Integration Params: lscint.p  
 Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P &ch Lab\*\* EPA 524.2

Vial: 1  
 Operator: zou  
 Inst : GCMS-A  
 Multiplr: 1.00



Spectrum Information: Average of 12.723 to 12.760 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result |
|-------------|--------------|--------------|--------------|-----------|---------|--------|
| 50          | 95           | 15           | 40           | 15.7      | 3543    | PASS   |
| 75          | 95           | 30           | 60           | 43.2      | 9759    | PASS   |
| 95          | 95           | 100          | 100          | 100.0     | 22616   | PASS   |
| 96          | 95           | 5            | 9            | 7.4       | 1670    | PASS   |
| 173         | 174          | 0.00         | 2            | 0.5       | 88      | PASS   |
| 174         | 95           | 50           | 100          | 84.3      | 19060   | PASS   |
| 175         | 174          | 5            | 9            | 8.9       | 1695    | PASS   |
| 176         | 174          | 95           | 101          | 99.9      | 19044   | PASS   |
| 177         | 176          | 5            | 9            | 7.6       | 1443    | PASS   |

## FORM-5A

Applied P &amp; 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: 034534

Project ID: JPL

BFB Inj. Date: 08/08/03

Batch No: 03G3619

BFB Inj. Time: 10:20

Sequence No: 03G3619

Project No: 04-4428.10

Instrument ID: A

GC Column: HP-VOC

Data File Name: G3619P01

Heated Purge: (Y/N) N

Column ID: 0.20 mm

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

| #  | Client<br>Sample No | Lab<br>Sample ID | Data<br>File Name | Date<br>Analyzed | Time<br>Analyzed |
|----|---------------------|------------------|-------------------|------------------|------------------|
| 1  | 03G3619-CCV-01      | 03G3619-CCV-01   | G3619Q01          | 08/08/03         | 10:46            |
| 2  | 03G3619-LCS-01      | 03G3619-LCS-01   | G3619L01          | 08/08/03         | 11:12            |
| 3  | MW-4-2MS            | 03-4455-4MS      | G3619M01          | 08/08/03         | 11:40            |
| 4  | MW-4-2MSD           | 03-4455-4MSD     | G3619N01          | 08/08/03         | 12:06            |
| 5  | 03G3619-MB-01       | 03G3619-MB-01    | G3619K01          | 08/08/03         | 13:25            |
| 6  | MW-11-1             | 03-4534-2        | 4534-02           | 08/08/03         | 19:38            |
| 7  | MW-11-2             | 03-4534-3        | 4534-03           | 08/08/03         | 20:04            |
| 8  | MW-11-3             | 03-4534-4        | 4534-04           | 08/08/03         | 20:30            |
| 9  | MW-11-4             | 03-4534-5        | 4534-05           | 08/08/03         | 20:56            |
| 10 | MW-14-4             | 03-4534-6        | 4534-06           | 08/08/03         | 21:22            |
| 11 | MW-14-5             | 03-4534-7        | 4534-07           | 08/08/03         | 21:49            |
| 12 |                     |                  |                   |                  |                  |
| 13 |                     |                  |                   |                  |                  |
| 14 |                     |                  |                   |                  |                  |
| 15 |                     |                  |                   |                  |                  |
| 16 |                     |                  |                   |                  |                  |
| 17 |                     |                  |                   |                  |                  |
| 18 |                     |                  |                   |                  |                  |
| 19 |                     |                  |                   |                  |                  |
| 20 |                     |                  |                   |                  |                  |
| 21 |                     |                  |                   |                  |                  |
| 22 |                     |                  |                   |                  |                  |
| 23 |                     |                  |                   |                  |                  |
| 24 |                     |                  |                   |                  |                  |
| 25 |                     |                  |                   |                  |                  |

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3619\G3619Q01.D  
 Acq On : 8 Aug 2003 10:46 am  
 Sample : f=1  
 Misc :  
 MS Integration Params: Lscint.p

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

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound                     | AvgRF | CCRF  | %Dev Area | % Dev(min) |
|------------------------------|-------|-------|-----------|------------|
| 1 I 1 Fluorobenzene          | 1.000 | 1.000 | 0.0       | 75 0.02    |
| 2 3 di-Cl-di-F-methane       | 0.251 | 0.231 | 8.0       | 69 0.04    |
| 3 P 4 Chloromethane          | 0.235 | 0.164 | 30.2#     | 56 0.04    |
| 4 2 F14                      | 0.131 | 0.132 | -0.8      | 73 0.04    |
| 5 C 5 vinyl chloride         | 0.242 | 0.214 | 11.6      | 67 0.04    |
| 6 6 bromomethane             | 0.116 | 0.072 | 37.9#     | 48# 0.04   |
| 7 chloroethane               | 0.144 | 0.138 | 4.2       | 79 0.03    |
| 8 tri-Cl-F-methane           | 0.359 | 0.353 | 1.7       | 74 0.04    |
| 9 91 Acetonitrile X10        | 0.044 | 0.039 | 11.4      | 70 0.03    |
| 10 9 acrolein X10            | 0.028 | 0.024 | 14.3      | 72 0.04    |
| 11 11 acetone X10            | 0.043 | 0.034 | 20.9#     | 104 0.03   |
| 12 12 ethyl ether X5         | 0.127 | 0.112 | 11.8      | 72 0.04    |
| 13 M, C 13 11-dichloroethene | 0.287 | 0.270 | 5.9       | 73 0.04    |
| 14 14 Iodomethane            | 0.253 | 0.095 | 62.5#     | 27# 0.04   |
| 15 15 F-113                  | 0.225 | 0.211 | 6.2       | 75 0.04    |
| 16 16 acrylonitrile X10      | 0.045 | 0.038 | 15.6      | 70 0.03    |
| 17 17 carbon disulfide       | 0.729 | 0.675 | 7.4       | 69 0.03    |
| 18 94 Isopropyl AlcoholX10   | 0.008 | 0.006 | 25.0#     | 70 0.06    |
| 19 18 methylene chloride     | 0.467 | 0.236 | 49.5#     | 70 0.04    |
| 20 19 t-12-di-Cl-ethene      | 0.270 | 0.248 | 8.1       | 71 0.03    |
| 21 20 t-Bu-Me-ether          | 0.450 | 0.410 | 8.9       | 72 0.03    |
| 22 95 Tert butyl alcoholX10  | 0.012 | 0.011 | 8.3       | 78 0.03    |
| 23 94 allyl chloride         | 0.393 | 0.389 | 1.0       | 70 0.03    |
| 24 P 21 11-dichloroethane    | 0.433 | 0.383 | 11.5      | 71 0.03    |
| 25 97 propionitrile          | 0.017 | 0.014 | 17.6      | 66 0.02    |
| 26 22 c-12-di-Cl-ethene      | 0.272 | 0.252 | 7.4       | 72 0.02    |

(#) = Out of Range

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3619\G3619Q01.D Vial: 2  
 Acq On : 8 Aug 2003 10:46 am Operator: zou  
 Sample : f=1 Inst : GCMS-A  
 Misc : Multiplr: 1.00  
 MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound | AVGRF | CCRF                 | %Dev  | Area% | Dev(min)       |
|----------|-------|----------------------|-------|-------|----------------|
| 27       | 23    | 22-Dichloropropane   | 0.310 | 0.340 | -9.7 88 0.03   |
| 28       | 24    | Br-Cl-methane        | 0.132 | 0.119 | 9.8 73 0.02    |
| 29       | 25    | chloroform           | 0.478 | 0.407 | 14.9 74 0.02   |
| 30       | 26    | tetrahydrofuranX5    | 0.033 | 0.028 | 15.2 67 0.02   |
| 31       | 98    | Diisopropyl ether    | 0.667 | 0.601 | 9.9 69 0.02    |
| 32       | 27    | Di-Br-F-Me (surr)    | 0.249 | 0.236 | 5.2 74 0.03    |
| 33       | 99    | ETBE                 | 0.510 | 0.489 | 4.1 70 0.02    |
| 34       | 29    | 1,2-Di-Cl-Et-d4 (S1) | 0.202 | 0.191 | 5.4 75 0.03    |
| 35       | 30    | 12-dichloroethane    | 0.078 | 0.072 | 7.7 77 0.02    |
| 36       | 32    | vinyl acetate X5     | 0.312 | 0.303 | 2.9 78 0.03    |
| 37       | 92    | Nitro Methane(x10)   | 0.006 | 0.005 | 16.7 73 0.03   |
| 38       | 33    | 2-butanoneMEK X10    | 0.052 | 0.046 | 11.5 80 0.03   |
| 39       | 93    | Ethyl Acetate x2     | 0.124 | 0.097 | 21.8# 68 0.02  |
| 40       | 34    | 111-trichloroethane  | 0.403 | 0.384 | 4.7 74 0.02    |
| 41       | 35    | 11-Di-Cl-propene     | 0.304 | 0.308 | -1.3 71 0.02   |
| 42       | 36    | benzene              | 1.015 | 0.925 | 8.9 71 0.02    |
| 43       | 37    | CCl4                 | 0.371 | 0.369 | 0.5 77 0.02    |
| 44       | 100   | Isobutyl alcoholx10  | 0.004 | 0.004 | 0.0 67 -0.23   |
| 45       | 38    | thiophene            | 0.505 | 0.480 | 5.0 71 0.02    |
| 46       | 39    | 12-di-Cl-propane     | 0.227 | 0.203 | 10.6 69 0.02   |
| 47       | 40    | trichloroethene      | 0.316 | 0.298 | 5.7 72 0.01    |
| 48       | 41    | dibromomethane       | 0.144 | 0.130 | 9.7 73 0.01    |
| 49       | 101   | TAME                 | 0.442 | 0.429 | 2.9 70 0.02    |
| 50       | 42    | Br-di-Cl-methane     | 0.327 | 0.290 | 11.3 73 0.01   |
| 51       | 43    | Me-methacrylate      | 0.102 | 0.101 | 1.0 67 0.01    |
| 52       | 44    | 2-ClEt-Vi-ether10    | 0.020 | 0.014 | 30.0# 41# 0.00 |

(#) = Out of Range

G3619Q01.D E524A002.M Fri Aug 08 17:55:57 2003

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3619\G3619Q01.D  
 Acq On : 8 Aug 2003 10:46 am  
 Sample : f=1  
 Misc :  
 MS Integration Params: Iscint.p

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

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P &ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound                       | AVGRF | CCRF  | %Dev Area | % Dev(min) |
|--------------------------------|-------|-------|-----------|------------|
| 53 45 c-13-di-Cl-propene       | 0.330 | 0.327 | 0.9       | 74 0.01    |
| 54 46 t-1,3-dichloropropene    | 0.262 | 0.270 | -3.1      | 75 0.00    |
| 55 I 47 Chlorobenzene-d5       | 1.000 | 1.000 | 0.0       | 77 0.00    |
| 56 48 112-tri-Cl-Et            | 0.241 | 0.213 | 11.6      | 74 0.00    |
| 57 49 13-di-Cl-propane         | 0.381 | 0.337 | 11.5      | 72 0.00    |
| 58 50 Et methacrylate          | 0.273 | 0.269 | 1.5       | 72 0.00    |
| 59 51 di-Br-Cl-methane         | 0.325 | 0.289 | 11.1      | 75 0.00    |
| 60 P 52 bromoform              | 0.185 | 0.166 | 10.3      | 75 0.00    |
| 61 53 1,4-dichlorobutane-2     | 0.354 | 0.307 | 13.3      | 72 0.00    |
| 62 54 MIBK                     | 0.146 | 0.124 | 15.1      | 66 0.00    |
| 63 s 55 toluene-d8             | 1.260 | 1.176 | 6.7       | 73 0.01    |
| 64 M,C 56 toluene              | 1.448 | 1.364 | 5.8       | 73 0.00    |
| 65 57 2-hexanone X5            | 0.099 | 0.091 | 8.1       | 74 0.00    |
| 66 58 12-dibromoethane         | 0.238 | 0.212 | 10.9      | 73 0.00    |
| 67 59 tetra-Cl-ethene          | 0.433 | 0.412 | 4.8       | 74 0.00    |
| 68 M,P 60 chlorobenzene        | 1.032 | 0.935 | 9.4       | 74 0.00    |
| 69 61 1112-tetra-Cl-Et         | 0.369 | 0.332 | 10.0      | 75 0.00    |
| 70 I 62 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0       | 80 0.00    |
| 71 63 1-chlorohexane           | 0.326 | 0.327 | -0.3      | 73 0.00    |
| 72 C 64 Et-Bz                  | 3.129 | 2.968 | 5.1       | 74 0.00    |
| 73 65 m/p-Xylenes X2           | 2.365 | 2.297 | 2.9       | 75 0.00    |
| 74 66 styrene                  | 1.798 | 1.765 | 1.8       | 74 0.00    |
| 75 67 o-xylene                 | 2.373 | 2.354 | 0.8       | 74 0.00    |
| 76 P 68 1122-Tetra-Cl-Et       | 0.528 | 0.433 | 18.0      | 73 0.00    |

(#) = Out of Range

G3619Q01.D E524A002.M

Fri Aug 08 17:55:57 2003

# Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G3619\G3619Q01.D Vial: 2  
 Acq On : 8 Aug 2003 10:46 am Operator: zou  
 Sample : f=1 Inst : GCMS-A  
 Misc : Multiplr: 1.00  
 MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\E524A002.M (RTE Integrator)  
 Title : \*\*Applied P & Ch Lab\*\* EPA 524.2  
 Last Update : Thu Jul 24 12:40:35 2003  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

| Compound                      | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------------------------------|-------|-------|--------|-------|----------|
| 77 69 123-tri-Cl-Pr           | 0.158 | 0.136 | 13.9   | 75    | 0.00     |
| 78 S 70 4-Br-1-F-Bz (S3)      | 0.827 | 0.752 | 9.1    | 75    | 0.00     |
| 79 71 isopropylbenzene        | 3.040 | 3.126 | -2.8   | 74    | 0.00     |
| 80 72 bromobenzene            | 0.817 | 0.758 | 7.2    | 75    | 0.00     |
| 81 92 t-1,4-dichloro-2-butene | 0.077 | 0.082 | -6.5   | 80    | 0.00     |
| 82 73 n-propylbenzene         | 0.952 | 0.967 | -1.6   | 76    | 0.00     |
| 83 74 2-Cl-Toluene            | 0.841 | 0.819 | 2.6    | 75    | 0.00     |
| 84 75 4-Cl-Toluene            | 0.856 | 0.820 | 4.2    | 76    | 0.00     |
| 85 76 135-tri-Me-Benzene      | 2.617 | 2.683 | -2.5   | 76    | 0.00     |
| 86 77 4-Iso-Pr-toluene        | 2.923 | 3.044 | -4.1   | 77    | 0.00     |
| 87 78 124-tri-Me-Benzene      | 2.726 | 2.712 | 0.5    | 76    | 0.00     |
| 88 79 tert-butylbenzene       | 2.499 | 2.505 | -0.2   | 76    | 0.00     |
| 89 80 13-DCB                  | 1.717 | 1.598 | 6.9    | 77    | 0.00     |
| 90 81 sec-butylbenzene        | 3.517 | 3.644 | -3.6   | 75    | 0.00     |
| 91 82 14-DCB                  | 1.749 | 1.569 | 10.3   | 76    | 0.00     |
| 92 83 Cl-benzyl               | 0.165 | 0.217 | -31.5# | 103   | 0.00     |
| 93 84 12-DCB                  | 1.529 | 1.392 | 9.0    | 76    | 0.00     |
| 94 85 n-butylbenzene          | 0.779 | 0.851 | -9.2   | 78    | 0.00     |
| 95 86 12-diBr-2-Cl-Pra        | 0.108 | 0.094 | 13.0   | 73    | 0.00     |
| 96 87 124-tri-Cl-Bz           | 0.990 | 1.035 | -4.5   | 78    | 0.00     |
| 97 88 naphthalene             | 1.796 | 1.573 | 12.4   | 76    | 0.00     |
| 98 89 hx-Cl-butadiene         | 0.599 | 0.596 | 0.5    | 79    | 0.00     |
| 99 90 123-Tri-Cl-Bz           | 0.888 | 0.881 | 0.8    | 77    | 0.00     |

(#) = Out of Range SPCC's out = 0 CCC's out = 0  
 G3619Q01.D E524A002.M Fri Aug 08 17:55:58 2003

# Continuing Calibration Concentration Summary

Data File G3619Q01

Method File E524A002

| <u>Compound Name</u>     | <u>Amount</u> | <u>Actual</u> | <u>Units</u> | <u>%Dev</u> | <u>Target Response</u> |
|--------------------------|---------------|---------------|--------------|-------------|------------------------|
| 1 Fluorobenzene          | 10            | 10.00         | ppb          | 0.00        | 760914                 |
| 3 di-Cl-di-F-methane     | 20            | 18.37         | ppb          | 8.15        | 350895                 |
| 4 Chloromethane          | 20            | 15.38         | ppb          | 23.11       | 250056                 |
| 2 F114                   | 20            | 20.17         | ppb          | 0.86        | 201480                 |
| 5 vinyl chloride         | 20            | 17.66         | ppb          | 11.69       | 325784                 |
| 6 bromomethane           | 20            | 12.42         | ppb          | 37.88       | 110085                 |
| 7 chloroethane           | 20            | 19.17         | ppb          | 4.17        | 210434                 |
| 8 tri-Cl-F-methane       | 20            | 19.68         | ppb          | 1.62        | 537597                 |
| 91 Acetonitrile X10      | 200           | 177.11        | ppb          | 11.44       | 591239                 |
| 9 acrolein X10           | 200           | 204.26        | ppb          | 2.13        | 369611                 |
| 11 acetone X10           | 200           | 295.99        | ppb          | 48.00       | 515963                 |
| 12 ethyl ether X5        | 100           | 104.47        | ppb          | 4.47        | 855474                 |
| 13 11-dichloroethene     | 20            | 18.87         | ppb          | 5.66        | 411575                 |
| 14 Iodomethane           | 20            | 7.51          | ppb          | 62.44       | 144854                 |
| 15 F-113                 | 20            | 21.47         | ppb          | 7.33        | 321704                 |
| 16 acrylonitrile X10     | 200           | 170.13        | ppb          | 14.93       | 578709                 |
| 17 carbon disulfide      | 20            | 18.51         | ppb          | 7.44        | 1026499                |
| 94 Isopropyl Alcoholx10  | 200           | 183.40        | ppb          | 8.30        | 87566                  |
| 18 methylene chloride    | 20            | 18.53         | ppb          | 7.34        | 358772                 |
| 19 t-12-di-Cl-ethene     | 20            | 18.39         | ppb          | 8.07        | 377936                 |
| 20 t-Bu-Me-ether         | 20            | 18.25         | ppb          | 8.73        | 624525                 |
| 95 Tert butyl alcoholx10 | 200           | 180.58        | ppb          | 9.71        | 160566                 |
| 94 allyl chloride        | 20            | 19.75         | ppb          | 1.24        | 591239                 |
| 21 11-dichloroethane     | 20            | 17.68         | ppb          | 11.59       | 583244                 |
| 97 propionitrile         | 20            | 17.17         | ppb          | 14.14       | 21919                  |
| 22 c-12-di-Cl-ethene     | 20            | 18.48         | ppb          | 7.61        | 382910                 |
| 23 22-Dichloropropane    | 20            | 24.97         | ppb          | 24.84       | 518023                 |
| 24 Br-Cl-methane         | 20            | 18.07         | ppb          | 9.64        | 181609                 |
| 25 chloroform            | 20            | 19.93         | ppb          | 0.34        | 619565                 |
| 26 tetrahydrofuranX5     | 100           | 85.75         | ppb          | 14.25       | 214291                 |
| 98 Diisopropyl ether     | 20            | 18.01         | ppb          | 9.97        | 914466                 |
| 27 Di-Br-F-Me (surr)     | 20            | 18.93         | ppb          | 5.36        | 358922                 |
| 99 ETBE                  | 20            | 19.15         | ppb          | 4.25        | 743459                 |
| 29 1,2-Di-Cl-Et-d4 (S1)  | 20            | 18.96         | ppb          | 5.21        | 291164                 |
| 30 12-dichloroethane     | 20            | 20.46         | ppb          | 2.29        | 109753                 |
| 32 vinyl acetate X5      | 100           | 96.99         | ppb          | 3.01        | 2302550                |
| 92 Nitro Methane(x10)    | 200           | 192.79        | ppb          | 3.60        | 81466                  |
| 33 2-butanoneMEK X10     | 200           | 218.65        | ppb          | 9.32        | 701333                 |
| 93 Ethyl Acetate x2      | 40            | 35.61         | ppb          | 10.97       | 295853                 |
| 34 111-trichloroethane   | 20            | 19.06         | ppb          | 4.70        | 584259                 |
| 35 11-Di-Cl-propene      | 20            | 20.22         | ppb          | 1.11        | 468409                 |
| 36 benzene               | 20            | 18.22         | ppb          | 8.89        | 1407278                |
| 37 CCl4                  | 20            | 19.86         | ppb          | 0.72        | 561205                 |

| <u>Compound Name</u>     | <u>Amount</u> | <u>Actual</u> | <u>Units</u> | <u>%Dev</u> | <u>Target Response</u> |
|--------------------------|---------------|---------------|--------------|-------------|------------------------|
| 100 Isobutyl alcoholx10  | 200           | 166.67        | ppb          | 16.67       | 58106                  |
| 38 thiophene             | 20            | 19.04         | ppb          | 4.82        | 730842                 |
| 39 12-di-Cl-propane      | 20            | 17.88         | ppb          | 10.62       | 308922                 |
| 40 trichloroethene       | 20            | 18.87         | ppb          | 5.65        | 454247                 |
| 41 dibromomethane        | 20            | 18.06         | ppb          | 9.72        | 197924                 |
| 101 TAME                 | 20            | 19.39         | ppb          | 3.07        | 652583                 |
| 42 Br-di-Cl-methane      | 20            | 19.52         | ppb          | 2.38        | 441872                 |
| 43 Me-methacrylate       | 20            | 17.47         | ppb          | 12.63       | 153364                 |
| 44 2-ClEt-Vi-ether10     | 200           | 111.81        | ppb          | 44.09       | 212526                 |
| 45 c-13-di-Cl-propene    | 20            | 19.84         | ppb          | 0.82        | 498164                 |
| 46 t-1,3-dichloropropene | 20            | 20.54         | ppb          | 2.69        | 410148                 |
| 47 Chlorobezene-d5       | 10            | 10.00         | ppb          | 0.00        | 594577                 |
| 48 112-tri-Cl-Et         | 20            | 17.65         | ppb          | 11.73       | 253337                 |
| 49 13-di-Cl-propane      | 20            | 17.68         | ppb          | 11.59       | 400223                 |
| 50 Et methacrylate       | 20            | 17.81         | ppb          | 10.94       | 319361                 |

| <u>Compound Name</u>       | <u>Amount</u> | <u>Actual</u> | <u>Units</u> | <u>%Dev</u> | <u>Target Response</u> |
|----------------------------|---------------|---------------|--------------|-------------|------------------------|
| 51 di-Br-Cl-methane        | 20            | 19.10         | ppb          | 4.50        | 344016                 |
| 52 bromoform               | 20            | 17.87         | ppb          | 10.66       | 196812                 |
| 53 1,4-dichlorobutane-2    | 20            | 17.32         | ppb          | 13.39       | 364953                 |
| 54 MIBK                    | 20            | 17.04         | ppb          | 14.79       | 147582                 |
| 55 toluene-d8              | 20            | 18.66         | ppb          | 6.71        | 1398140                |
| 56 toluene                 | 20            | 18.84         | ppb          | 5.81        | 1622333                |
| 57 2-hexanone X5           | 100           | 91.67         | ppb          | 8.33        | 538779                 |
| 58 12-dibromoethane        | 20            | 17.77         | ppb          | 11.15       | 251555                 |
| 59 tetra-Cl-ethene         | 20            | 19.02         | ppb          | 4.89        | 489478                 |
| 60 chlorobenzene           | 20            | 19.83         | ppb          | 0.83        | 1111537                |
| 61 1112-tetra-Cl-Et        | 20            | 17.99         | ppb          | 10.05       | 394273                 |
| 62 1,4-Dichlorobenzene-d4  | 10            | 10.00         | ppb          | 0.00        | 314620                 |
| 63 1-chlorohexane          | 20            | 20.05         | ppb          | 0.27        | 205765                 |
| 64 Et-Bz                   | 20            | 18.97         | ppb          | 5.13        | 1867831                |
| 65 m/p-Xylenes X2          | 40            | 38.84         | ppb          | 2.90        | 2890463                |
| 66 styrene                 | 20            | 19.63         | PPB          | 1.85        | 1110739                |
| 67 o-xylene                | 20            | 19.84         | ppb          | 0.80        | 1481328                |
| 68 1122-Tetra-Cl-Et        | 20            | 16.38         | ppb          | 18.10       | 272231                 |
| 69 123-tri-Cl-Pr           | 20            | 17.22         | ppb          | 13.91       | 85659                  |
| 70 4-Br-1-F-Bz (S3)        | 20            | 18.19         | ppb          | 9.04        | 473414                 |
| 71 isopropylbenzene        | 20            | 20.57         | ppb          | 2.83        | 1967297                |
| 72 bromobenzene            | 20            | 18.56         | ppb          | 7.22        | 476714                 |
| 92 t-1,4-dichloro-2-butene | 20            | 18.38         | ppb          | 8.10        | 51829                  |
| 73 n-propylbenzene         | 20            | 20.32         | ppb          | 1.58        | 608713                 |
| 74 2-Cl-Toluene            | 20            | 19.46         | ppb          | 2.72        | 515117                 |
| 75 4-Cl-Toluene            | 20            | 19.17         | ppb          | 4.16        | 516213                 |
| 76 135-tri-Me-Benzene      | 20            | 20.50         | ppb          | 2.52        | 1688486                |
| 77 4-iso-Pr-toluene        | 20            | 20.83         | ppb          | 4.15        | 1915619                |
| 78 124-tri-Me-Benzene      | 20            | 19.90         | ppb          | 0.49        | 1706718                |
| 79 tert-butylbenzene       | 20            | 20.04         | ppb          | 0.20        | 1575985                |
| 80 13-DCB                  | 20            | 18.62         | ppb          | 6.91        | 1005533                |
| 81 sec-butylbenzene        | 20            | 20.72         | ppb          | 3.60        | 2292846                |

|                     |    |       |     |       |        |
|---------------------|----|-------|-----|-------|--------|
| 82 14-DCB           | 20 | 19.22 | ppb | 3.88  | 987220 |
| 83 Cl-benzyl        | 20 | 26.24 | ppb | 31.21 | 136574 |
| 84 12-DCB           | 20 | 18.21 | ppb | 8.93  | 875953 |
| 85 n-butylbenzene   | 20 | 19.87 | ppb | 0.67  | 535675 |
| 86 12-diBr-2-Cl-Pra | 20 | 17.39 | ppb | 13.07 | 58878  |
| 87 124-tri-Cl-Bz    | 20 | 20.91 | ppb | 4.53  | 650992 |
| 88 naphthalene      | 20 | 17.52 | ppb | 12.42 | 989871 |
| 89 hx-Cl-butadiene  | 20 | 19.90 | ppb | 0.48  | 375234 |
| 90 123-Tri-Cl-Bz    | 20 | 19.85 | ppb | 0.76  | 554611 |

Average D % 8.4932066

## FORM-8A

Applied P &amp; 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: 034534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

CCV Data File: G3659Q01

Instrument ID: A

Batch No: 03G3659

| #  | Client<br>Sample No | Lab<br>Sample ID | Analysis<br>Date & Time | IS-1<br>Area # RT # | IS-2<br>Area # RT # | IS-3<br>Area # RT # |
|----|---------------------|------------------|-------------------------|---------------------|---------------------|---------------------|
|    | 12 Hour CCV STD     |                  | 08/11/03 10:40          | 764133 7.65         | 595141 11.55        | 318055 13.84        |
|    | CCV Upper Limit     |                  |                         | 1528266 8.15        | 1190282 12.05       | 636110 14.34        |
|    | CCV Lower Limit     |                  |                         | 382066 7.15         | 297570 11.05        | 159027 13.34        |
| 1  | 03G3659-LCS-01      | 03G3659-LCS-01   | 08/11/03 11:06          | 777095 7.65         | 607472 11.55        | 315375 13.84        |
| 2  | 03G3659-MB-01       | 03G3659-MB-01    | 08/11/03 13:18          | 681858 7.65         | 580347 11.54        | 305392 13.84        |
| 3  | TB-6-8-7-03         | 03-4534-12       | 08/11/03 13:45          | 677866 7.65         | 581586 11.55        | 312924 13.84        |
| 4  | EB-6-8-7-03         | 03-4534-1        | 08/11/03 14:11          | 681250 7.65         | 566414 11.55        | 301495 13.85        |
| 5  | MW-24-1             | 03-4534-8        | 08/11/03 15:04          | 670497 7.65         | 567157 11.55        | 297754 13.85        |
| 6  | MW-24-2             | 03-4534-9        | 08/11/03 15:31          | 661864 7.65         | 564727 11.54        | 299987 13.84        |
| 7  | MW-24-3             | 03-4534-10       | 08/11/03 15:57          | 658604 7.65         | 559386 11.54        | 298037 13.85        |
| 8  | MW-12-4MS           | 03-4572-6MS      | 08/11/03 21:14          | 757966 7.64         | 592654 11.54        | 310822 13.84        |
| 9  | MW-12-4MSD          | 03-4572-6MSD     | 08/11/03 21:40          | 801156 7.65         | 622097 11.54        | 325477 13.84        |
| 10 |                     |                  |                         |                     |                     |                     |
| 11 |                     |                  |                         |                     |                     |                     |
| 12 |                     |                  |                         |                     |                     |                     |
| 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

## FORM-8A

Applied P &amp; 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: 034534

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

CCV Data File: G3619Q01

Instrument ID: A

Batch No: 03G3619

| #  | Client<br>Sample No | Lab<br>Sample ID | Analysis<br>Date & Time | IS-1<br>Area # RT # | IS-2<br>Area # RT # | IS-3<br>Area # RT # |
|----|---------------------|------------------|-------------------------|---------------------|---------------------|---------------------|
|    | 12 Hour CCV STD     |                  | 08/08/03 10:46          | 760914 7.65         | 594577 11.54        | 314620 13.84        |
|    | CCV Upper Limit     |                  |                         | 1521828 8.15        | 1189154 12.04       | 629240 14.34        |
|    | CCV Lower Limit     |                  |                         | 380457 7.15         | 297288 11.04        | 157310 13.34        |
| 1  | 03G3619-LCS-01      | 03G3619-LCS-01   | 08/08/03 11:12          | 789769 7.65         | 614802 11.54        | 323815 13.84        |
| 2  | MW-4-2MS            | 03-4455-4MS      | 08/08/03 11:40          | 784993 7.64         | 592210 11.54        | 296302 13.84        |
| 3  | MW-4-2MSD           | 03-4455-4MSD     | 08/08/03 12:06          | 821352 7.65         | 637228 11.54        | 327356 13.84        |
| 4  | 03G3619-MB-01       | 03G3619-MB-01    | 08/08/03 13:25          | 705734 7.65         | 577919 11.54        | 302850 13.84        |
| 5  | MW-11-1             | 03-4534-2        | 08/08/03 19:38          | 664384 7.65         | 549929 11.55        | 285791 13.84        |
| 6  | MW-11-2             | 03-4534-3        | 08/08/03 20:04          | 664730 7.65         | 552377 11.54        | 290381 13.84        |
| 7  | MW-11-3             | 03-4534-4        | 08/08/03 20:30          | 668853 7.65         | 547701 11.55        | 286651 13.85        |
| 8  | MW-11-4             | 03-4534-5        | 08/08/03 20:56          | 679537 7.65         | 554670 11.55        | 291894 13.85        |
| 9  | MW-14-4             | 03-4534-6        | 08/08/03 21:22          | 662147 7.65         | 549660 11.55        | 294214 13.85        |
| 10 | MW-14-5             | 03-4534-7        | 08/08/03 21:49          | 665690 7.65         | 547164 11.55        | 290008 13.85        |
| 11 |                     |                  |                         |                     |                     |                     |
| 12 |                     |                  |                         |                     |                     |                     |
| 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

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VOC-054

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## VOC Analysis General Logbook

Sample # 0393659 Batch # 0393659 Matrix: W Date: 08/11/03 Analyst: zouIS/Surrogate: GC-1514/1515 Methanol(mark-M): \_\_\_\_\_ PEG (mark-PEG): \_\_\_\_\_ Defoaming(mark-DF): \_\_\_\_\_Init. Batch ☒ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study

Datafile Path: \_\_\_\_\_

|                     | Type      | Sample ID | Method                                                              | $V/X=f_1$ | $V_1/V_i=f_2$ | $V_{avg}/V_{inj}=f_3$ | F    | A-#       | Datafile                                                            | Note             | pH  |
|---------------------|-----------|-----------|---------------------------------------------------------------------|-----------|---------------|-----------------------|------|-----------|---------------------------------------------------------------------|------------------|-----|
| 2702                | SP        | G3659P01  | E524A                                                               | 25/25 = 1 | / =           | / =                   | 1    |           | G3659P01                                                            | 08/11/03 10:44am |     |
| 2703                | CCV       | Q01       |                                                                     | / =       | / =           | / =                   |      |           | Q01                                                                 | GC15535          |     |
| 2704                | LCS       | L01       |                                                                     | / =       | / =           | / =                   |      |           | L01                                                                 |                  |     |
| 2705                | MS        | M01       |                                                                     | / =       | / =           | / =                   |      |           | M01                                                                 | \$4509-08        | <2  |
| 2706                | MSD       | N01       |                                                                     | / =       | / =           | / =                   |      |           | N01                                                                 | ↓                | ↓   |
| 2707                | MB        | ✓ K01     |                                                                     | / =       | / =           | / =                   |      |           | ✓ K01                                                               |                  |     |
| 2708                | Sample    | 4534-12   |                                                                     | / =       | / =           | / =                   |      |           | 4534-12                                                             |                  | <2  |
| 2709                |           | ↓ 01      |                                                                     | / =       | / =           | / =                   |      |           | ↓ 01                                                                |                  |     |
| 2710                |           | 4509-08   |                                                                     | / =       | / =           | / =                   |      |           | 4509-08                                                             |                  |     |
| 2711                |           | 4534-08   |                                                                     | / =       | / =           | / =                   |      |           | 4534-08                                                             |                  |     |
| 2712                |           | ↓ 09      |                                                                     | / =       | / =           | / =                   |      |           | ↓ 09                                                                |                  |     |
| 2713                |           | ↓ 10      |                                                                     | / =       | / =           | / =                   |      |           | ↓ 10                                                                |                  |     |
| 2714                |           | 4572-01   |                                                                     | / =       | / =           | / =                   |      |           | 4572-01                                                             |                  |     |
| 2715                |           | 02        |                                                                     | / =       | / =           | / =                   |      |           | 02                                                                  |                  |     |
| 2716                |           | 03        |                                                                     | / =       | / =           | / =                   |      |           | 03                                                                  |                  |     |
| 2717                |           | 04        |                                                                     | / =       | / =           | / =                   |      |           | 04                                                                  |                  |     |
| 2718                |           | 05        |                                                                     | / =       | / =           | / =                   |      |           | 05                                                                  |                  |     |
| 2719                |           | 06        |                                                                     | / =       | / =           | / =                   |      |           | 06                                                                  |                  |     |
| 2720                |           | 07        |                                                                     | / =       | / =           | / =                   |      |           | 07                                                                  |                  |     |
| 2721                |           | 08        |                                                                     | / =       | / =           | / =                   |      |           | 08                                                                  |                  |     |
| 2722                |           | 09        |                                                                     | / =       | / =           | / =                   |      |           | 09                                                                  |                  |     |
| 2723                |           | 10        |                                                                     | / =       | / =           | / =                   |      |           | 10                                                                  |                  |     |
| 2724                |           | ↓ 11      |                                                                     | / =       | / =           | / =                   |      |           | ↓ 11                                                                |                  |     |
| 2725                |           | G3659M02  |                                                                     | / =       | / =           | / =                   |      |           | G3659M02                                                            | \$4572-06        |     |
| 2726                | ↓         | ↓ N02     | ↓                                                                   | ↓         | / =           | / =                   | ↓    |           | ↓ N02                                                               | ↓                | ↓   |
| 2727                |           |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |                  |     |
| 2728                |           |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |                  |     |
| <hr/>               |           |           |                                                                     |           |               |                       |      |           |                                                                     |                  |     |
| <div>28/12/03</div> |           |           |                                                                     |           |               |                       |      |           |                                                                     |                  |     |
| Type                | Op #      | STD Lot # | $C_{std}(ng/\mu L) \times V_{std}(\mu L) / X(g \text{ or } mL) = T$ |           |               |                       | Op # | STD Lot # | $C_{std}(ng/\mu L) \times V_{std}(\mu L) / X(g \text{ or } mL) = T$ |                  |     |
| CS/LCSD             | 2699      | GC-15536  | 200                                                                 | x         | 2.5           | /X = 20               | ppb  | GC-       | x                                                                   | /X =             | ppb |
| AS/MSD              | 2700/2701 | GC-       | 200                                                                 | x         | 2.5           | /X = 20               | ppb  | GC-       | x                                                                   | /X =             | ppb |

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## VOC Analysis General Logbook

0383619

Batch #

0383619

Matrix:

W

Date:

08/08/03

Analyst:

Zou

IS/Surrogate: GC-15114/15115 Methanol(mark-M):

PEG (mark-PEG):

Defoaming(mark-DF):

Initial Batch: ☒ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study

Datafile Path:

| Type   | Sample ID | Method | $V/X=f_1$ | $V_f/V_i=f_2$ | $V_{peg}/V_{inj}=f_3$ | F | A-# | Datafile  | Note      | pH       |
|--------|-----------|--------|-----------|---------------|-----------------------|---|-----|-----------|-----------|----------|
| SP     | 63619P-01 | E524A  | 25/25 = 1 | / =           | / =                   | 1 |     | 63619P-01 | 08/08/03  | 10:20 AM |
| CCV    | Q01       |        | / =       | / =           | / =                   |   |     | Q01       | GC-15521  |          |
| LCS    | L01       |        | / =       | / =           | / =                   |   |     | L01       |           |          |
| MS     | M01       |        | / =       | / =           | / =                   |   |     | M01       | \$4455-04 | <2       |
| MSD    | N01       |        | / =       | / =           | / =                   |   |     | N01       | ↓         | ↓        |
| MB     | ↓ K01     |        | / =       | / =           | / =                   |   |     | ↓ K01     |           |          |
| Sample | 4509-11   |        | / =       | / =           | / =                   |   |     | 4509-11   | tb        | <2       |
|        | 4455-04   |        | / =       | / =           | / =                   |   |     | 4455-04   | ms        |          |
|        | 4509-01   |        | / =       | / =           | / =                   |   |     | 4509-01   |           |          |
|        | 02        |        | / =       | / =           | / =                   |   |     | 02        |           |          |
|        | 03        |        | / =       | / =           | / =                   |   |     | 03        |           |          |
|        | 04        |        | / =       | / =           | / =                   |   |     | 04        |           |          |
|        | 05        |        | / =       | / =           | / =                   |   |     | 05        |           |          |
|        | 07        |        | / =       | / =           | / =                   |   |     | 07        |           |          |
|        | ↓ 09      |        | / =       | / =           | / =                   |   |     | ↓ 09      |           |          |
|        | 4525-01   |        | / =       | / =           | / =                   |   |     | 4525-01   |           |          |
|        | 02        |        | / =       | / =           | / =                   |   |     | 02        |           |          |
|        | 03        |        | / =       | / =           | / =                   |   |     | 03        |           |          |
|        | ↓ 04      |        | / =       | / =           | / =                   |   |     | ↓ 04      |           |          |
|        | 4534-02   |        | / =       | / =           | / =                   |   |     | 4534-02   |           |          |
|        | 4534-03   |        | / =       | / =           | / =                   |   |     | 4534-03   |           |          |
|        | 04        |        | / =       | / =           | / =                   |   |     | 04        |           |          |
|        | 05        |        | / =       | / =           | / =                   |   |     | 05        |           |          |
|        | 06        |        | / =       | / =           | / =                   |   |     | 06        |           |          |
| ↓      | ↓ 07      | ↓      | ↓ / ↓ = ↓ | / =           | / =                   | ↓ |     | ↓ 07      |           | ↓        |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |
|        |           |        | / =       | / =           | / =                   |   |     |           |           |          |

| Type    | Op #      | STD Lot # | $C_{std}(ng/\mu L) \times V_{std}(\mu L) / X(ng \text{ or } mL) = T$ | Op # | STD Lot # | $C_{std}(ng/\mu L) \times V_{std}(\mu L) / X(ng \text{ or } mL) = T$ |
|---------|-----------|-----------|----------------------------------------------------------------------|------|-----------|----------------------------------------------------------------------|
| IS/LCSD | 2467      | GC-15522  | $200 \times 2.5 / X = 20$ ppb                                        |      | GC-       | $x / X =$ ppb                                                        |
| IS/MSD  | 2468/2469 | GC-15522  | $x \times 2.5 / X = 20$ ppb                                          |      | GC-       | $x / X =$ ppb                                                        |

Note/Anomaly:

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## VOC Analysis General Logbook

Sequence # 0383415 Batch # 0383415 Matrix: W Date: 07/24/03 Analyst: BenLot #: IS/Surrogate: GC-154/1515 Methanol(mark-M): \_\_\_\_\_ PEG (mark-PEG): \_\_\_\_\_ Defoaming(mark-DF): \_\_\_\_\_☐ Calib. + Ini. Batch ☒ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study Datafile Path: \_\_\_\_\_

| Op. #    | 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    |
|----------|--------|-----------|---------------------------------------------------------------------|-----------|---------------|-----------------------|------|-----------|---------------------------------------------------------------------|----------|-------|
| 2217     | SP     | G3415 P01 | E54A                                                                | 25/25 = 1 | / =           | / =                   | 1    |           | G3415 P01                                                           | 07/24/03 | 17:08 |
| 2218     | Calib. | 02-00003  |                                                                     | / =       | / =           | / =                   |      |           | 02-00003                                                            | 0.3 ppb  |       |
| 2219     |        | 0002A     |                                                                     | / =       | / =           | / =                   |      |           | 0002A                                                               | 2 ppb    |       |
| 2220     |        | 00010     |                                                                     | / =       | / =           | / =                   |      |           | 00010                                                               | 10 ppb   |       |
| 2221     |        | 00020     |                                                                     | / =       | / =           | / =                   |      |           | 00020                                                               | 20 ppb   |       |
| 2222     |        | 00040     |                                                                     | / =       | / =           | / =                   |      |           | 00040                                                               | 40 ppb   |       |
| 2223     |        | 00060     |                                                                     | / =       | / =           | / =                   |      |           | 00060                                                               | 60 ppb   |       |
| 2224     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2225     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2226     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2227     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2228     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2229     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2230     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2231     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2232     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2233     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2234     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2235     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2236     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2237     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2238     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2239     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2240     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2241     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2242     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2243     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2244     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2245     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2246     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2247     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 2248     |        |           |                                                                     | / =       | / =           | / =                   |      |           |                                                                     |          |       |
| 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 |        | GC-       | x                                                                   | /X=       | ppb           |                       | GC-  | x         | /X=                                                                 | ppb      |       |
| MS/MSD   |        | GC-       | x                                                                   | /X=       | ppb           |                       | GC-  | x         | /X=                                                                 | ppb      |       |

Footnote/Anomaly:

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## VOC Analysis General Logbook

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Sequence # 0393452

Batch # 0393452

Matrix: W

Date: 07/24/03 Analyst: Zou

Lot #: 15/Surrogate: GC-1514/1515 Methanol(mark-M):

PEG (mark-PEG):

Defoaming(mark-DF):

☐ Calib. + Ini. Batch ☒ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study

Datafile Path:

| Op. # | Type   | Sample ID | Method | $V/X=f_1$ | $V_1/V_2=f_2$ | $V_{PEG}/V_{inj}=f_3$ | F | A-# | Datafile | Note        | pH      |
|-------|--------|-----------|--------|-----------|---------------|-----------------------|---|-----|----------|-------------|---------|
| 2313  | SP     | 63452901  | E524A  | 25/25=1   | / =           | / =                   | 1 |     | 63452901 | 07/24/03    | 10:07am |
| 2314  | CEV    | 01        |        | / =       | / =           | / =                   | 1 |     | 01       | GC15447     |         |
| 2315  | LCS    | 01        |        | / =       | / =           | / =                   | 1 |     | 01       |             |         |
| 2316  | LCSD   | 01        |        | / =       | / =           | / =                   | 1 |     | 01       |             |         |
| 2317  | MB     | 01        |        | / =       | / =           | / =                   | 1 |     | 01       |             |         |
| 2318  | Sample | 4176-08   |        | / =       | / =           | / =                   | 1 |     | 4176-08  | Internal PE |         |
| 2319  |        | 4182-05   |        | / =       | / =           | / =                   | 1 |     | 4182-05  | PE          |         |
| 2320  |        | 18        |        | 15=5      | / =           | / =                   | 5 |     | 18       |             |         |
| 2321  |        | 03        |        | 125=1     | / =           | / =                   | 1 |     | 03       |             |         |
| 2322  |        | 03A       |        | 15=5      | / =           | / =                   | 5 |     | 03A      |             |         |
| 2323  |        | 04        |        | 15=5      | / =           | / =                   | 5 |     | 04       |             |         |
| 2324  |        | 04A       |        | 125=1     | / =           | / =                   | 1 |     | 04A      |             |         |
| 2325  |        | 04B       |        | 15=5      | / =           | / =                   | 5 |     | 04B      |             |         |
| 2326  |        | 4175-03B  |        | 125=1     | / =           | / =                   | 1 |     | 4175-03B |             |         |
| 2327  |        | 03C       |        | / =       | / =           | / =                   | 1 |     | 03C      |             |         |
| 2328  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2329  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2330  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2331  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2332  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2333  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2334  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2335  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2336  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2337  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2338  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2339  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2340  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2341  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2342  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2343  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |
| 2344  |        |           |        | / =       | / =           | / =                   |   |     |          |             |         |

Footnote/Anomaly: