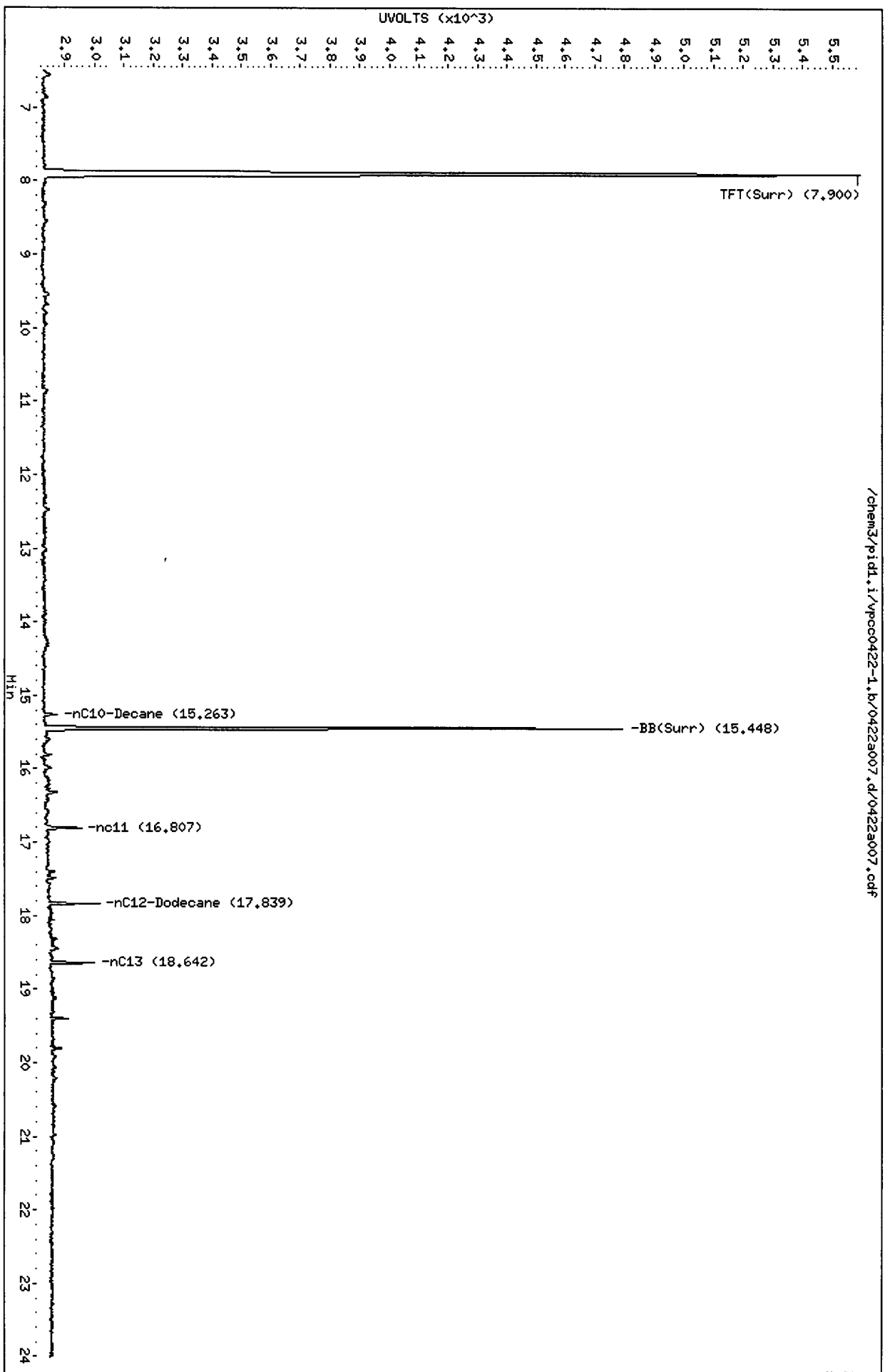


Data File: /chem3/pid1.i/vpcc0422-1.b/0422a007.d  
Date : 22-APR-2011 09:11  
Client ID: LL-SB6-0-0.5-041811  
Sample Info: SS71A

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a007.d/0422a007.cdf

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18

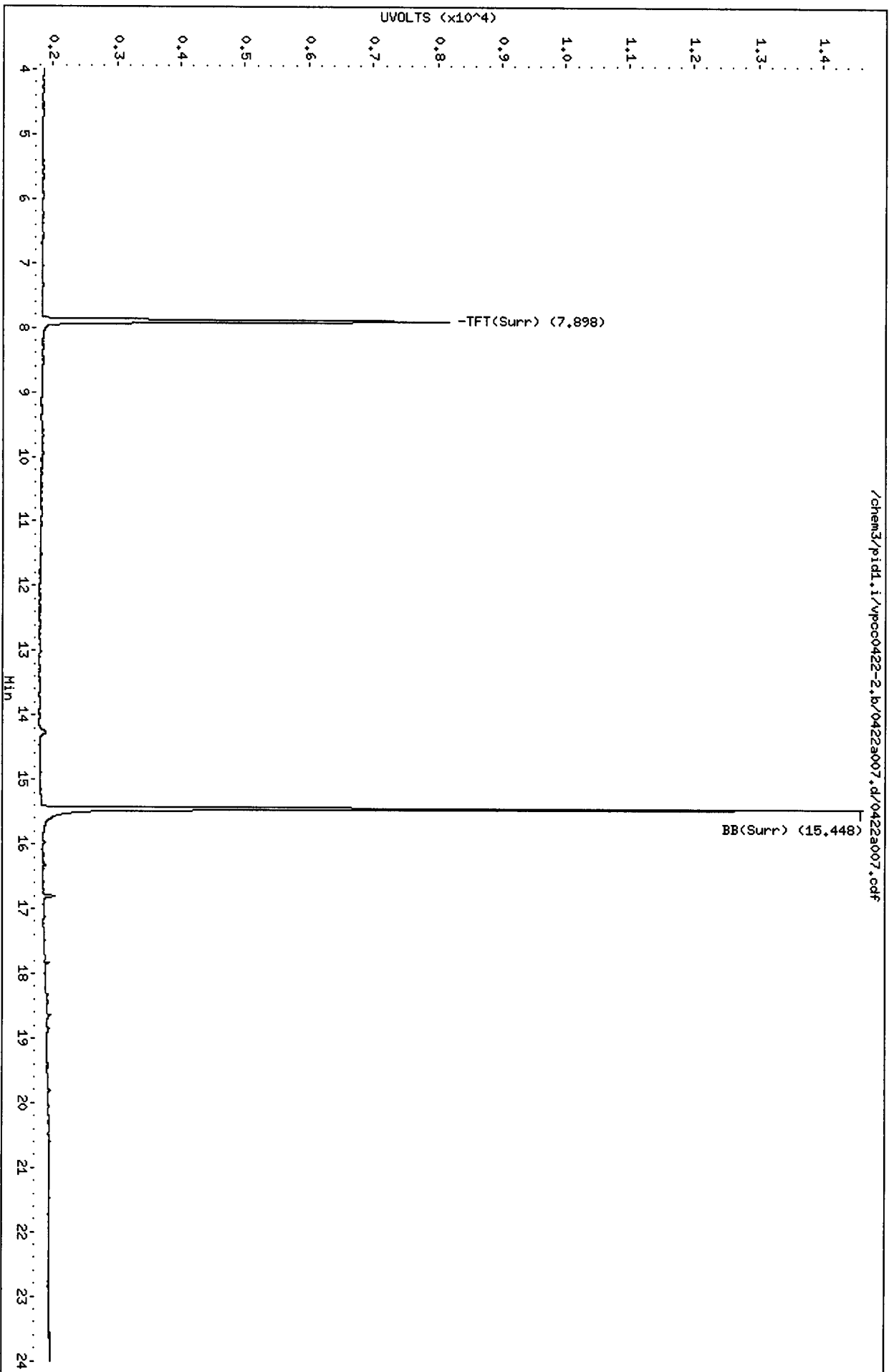


Data File: /chem3/pid1.i/vpcc0422-2.b/0422a007.d  
Date: 22-APR-2011 09:11  
Client ID: LL-SB6-0-0.5-041811  
Sample Info: SS71A

Page 1

Column phase: RTX 502-2 PID

Operator: MH  
Column diameter: 0.18



11 10 09 10 11 12

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a008.d      ARI ID: SS71B  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a008.d      Client ID: LL-SB6-1.5-2-041811  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 09:40  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.899  | 0.000 | 2703   | 36678 | 95.5 | TFT(Surr) |
| 15.448 | 0.002 | 1933   | 16224 | 92.7 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 1156        | 0.003  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 0           | 0.000  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 0           | 0.000  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 1888        | 0.005  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.897  | 0.001 | 6112     | 93.8 | TFT(Surr) |
| 15.448 | 0.002 | 12654    | 93.9 | BB(Surr)  |

SW8021 (PID)

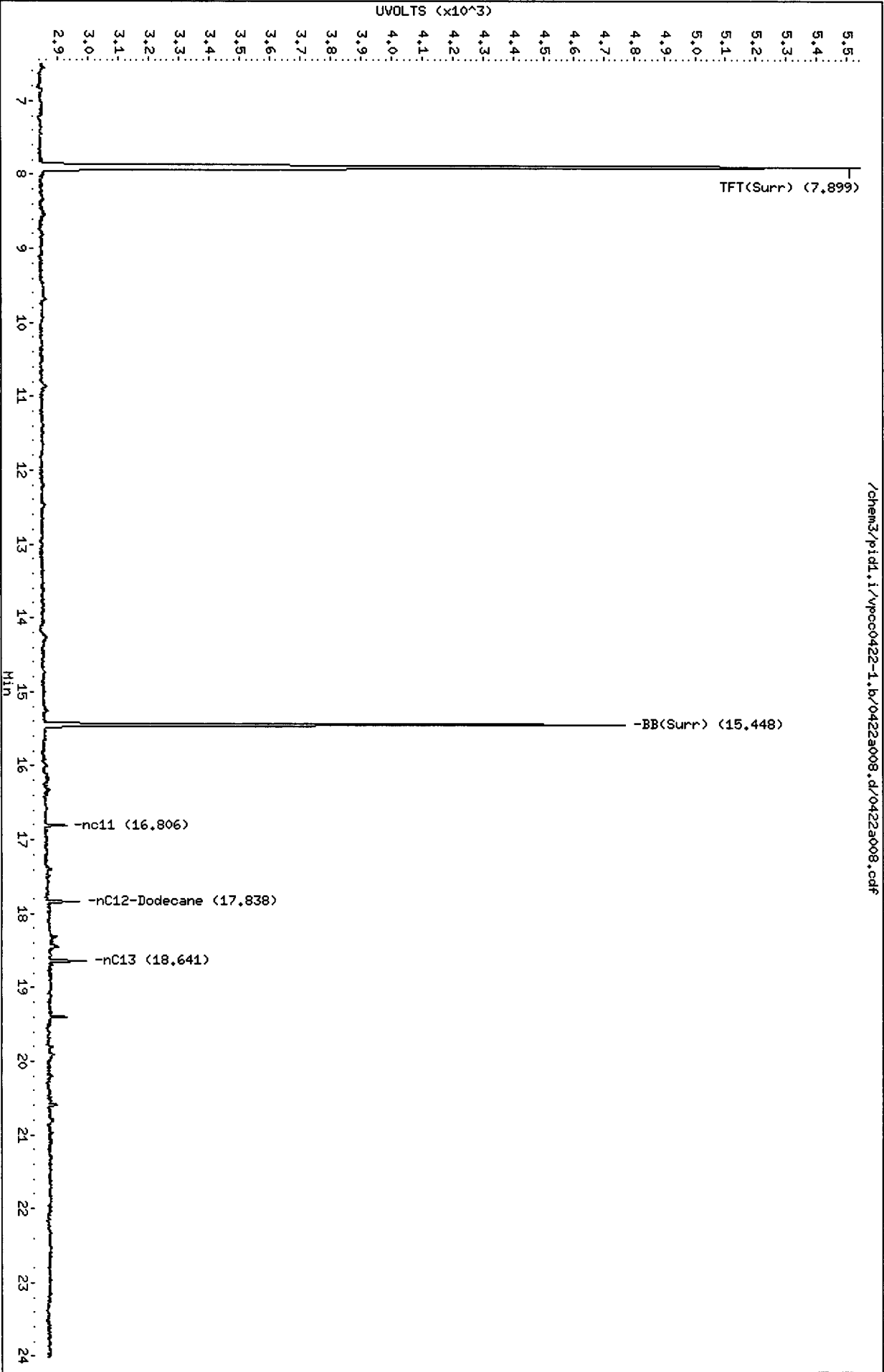
| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a008.d  
Date : 22-APR-2011 09:40  
Client ID: LL-SB6-1.5-2-041811  
Sample Info: SS71B

Column phase: RTX 502-2 FID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18

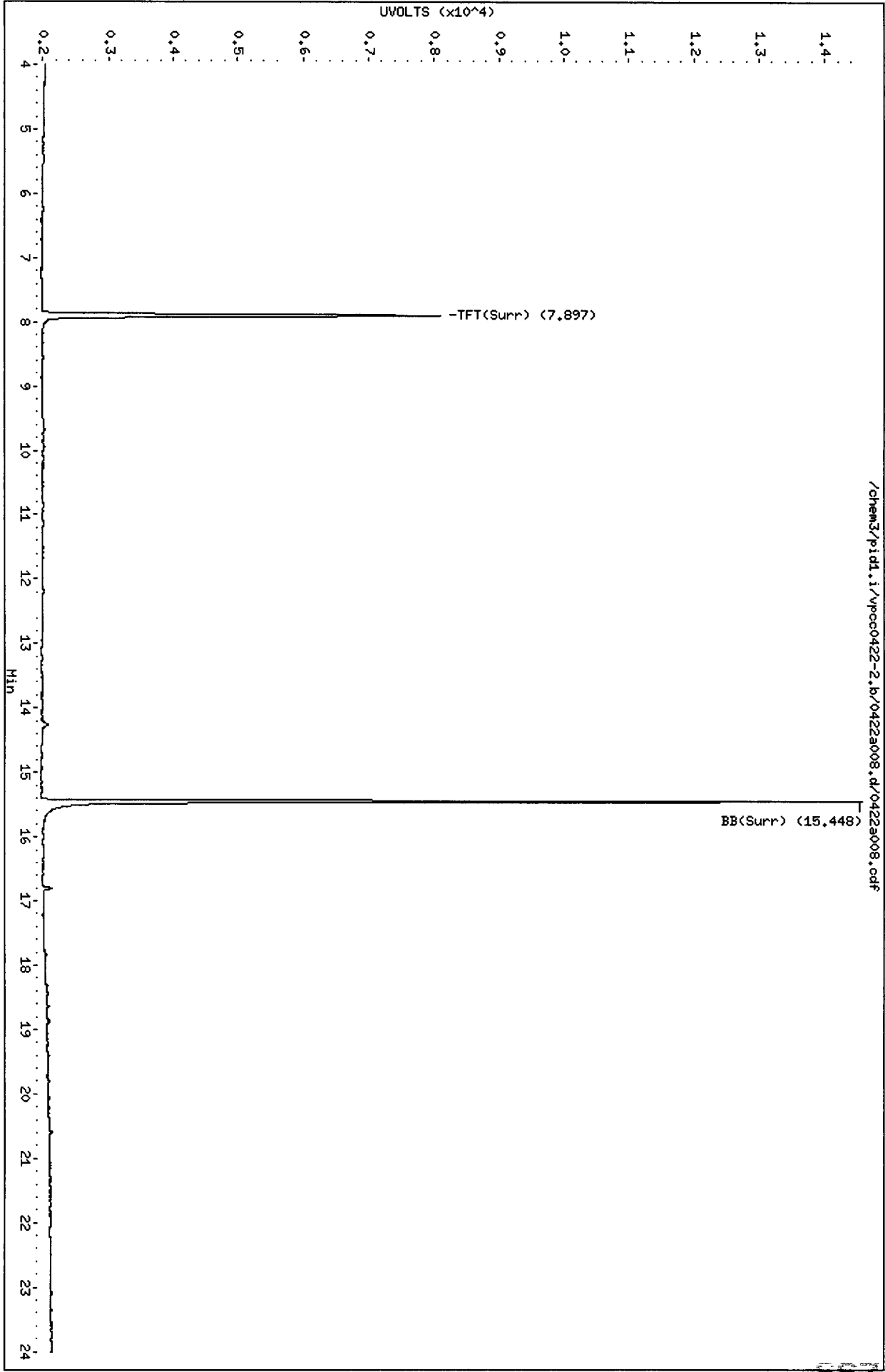


00 10 20 30 40 50 60 70 80 90 100

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a008.d  
Date : 22-APR-2011 09:40  
Client ID: LL-SB6-1.5-2-041811  
Sample Info: SS71B

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0422-2.b/0422a008.d/0422a008.cdf

15 16 17 18 19 20 21 22 23 24

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Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a009.d      ARI ID: SS71C  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a009.d      Client ID: LL-SB6-2-4-041811  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 10:10  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.899  | 0.000 | 2760   | 37422 | 97.6 | TFT(Surr) |
| 15.447 | 0.001 | 1987   | 16501 | 95.3 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 916         | 0.002  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 1           | 0.000  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 0           | 0.000  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 1452        | 0.004  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.897  | 0.000 | 6285     | 96.5 | TFT(Surr) |
| 15.447 | 0.001 | 12996    | 96.4 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

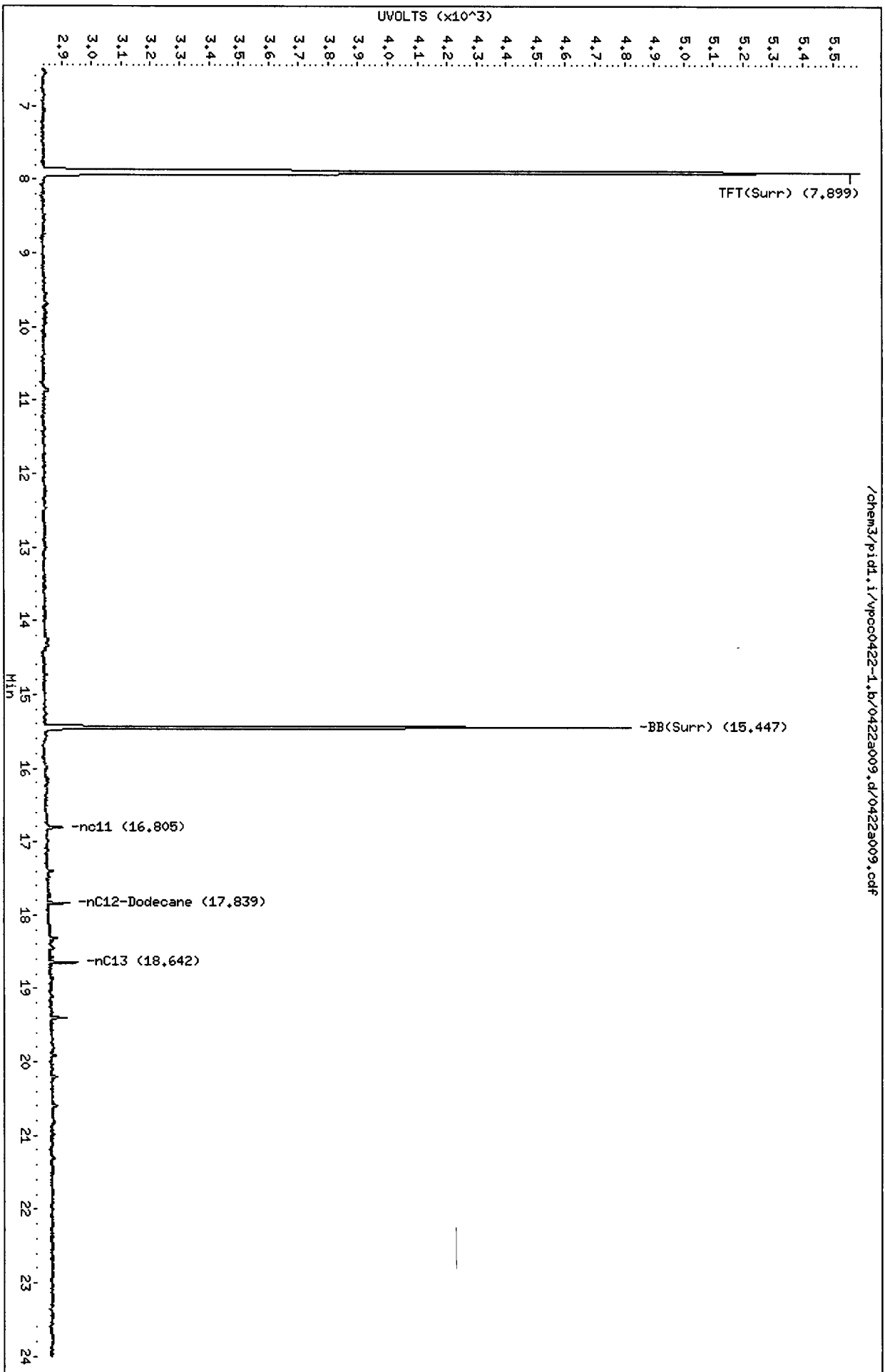
Data File: /chem3/pid1.i/vpcc0422-1.b/0422a009.d  
Date : 22-APR-2011 10:10  
Client ID: LL-SB6-2-4-041811  
Sample Info: SS71C

Instrument: pid1.i

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a009.d/0422a009.cdf

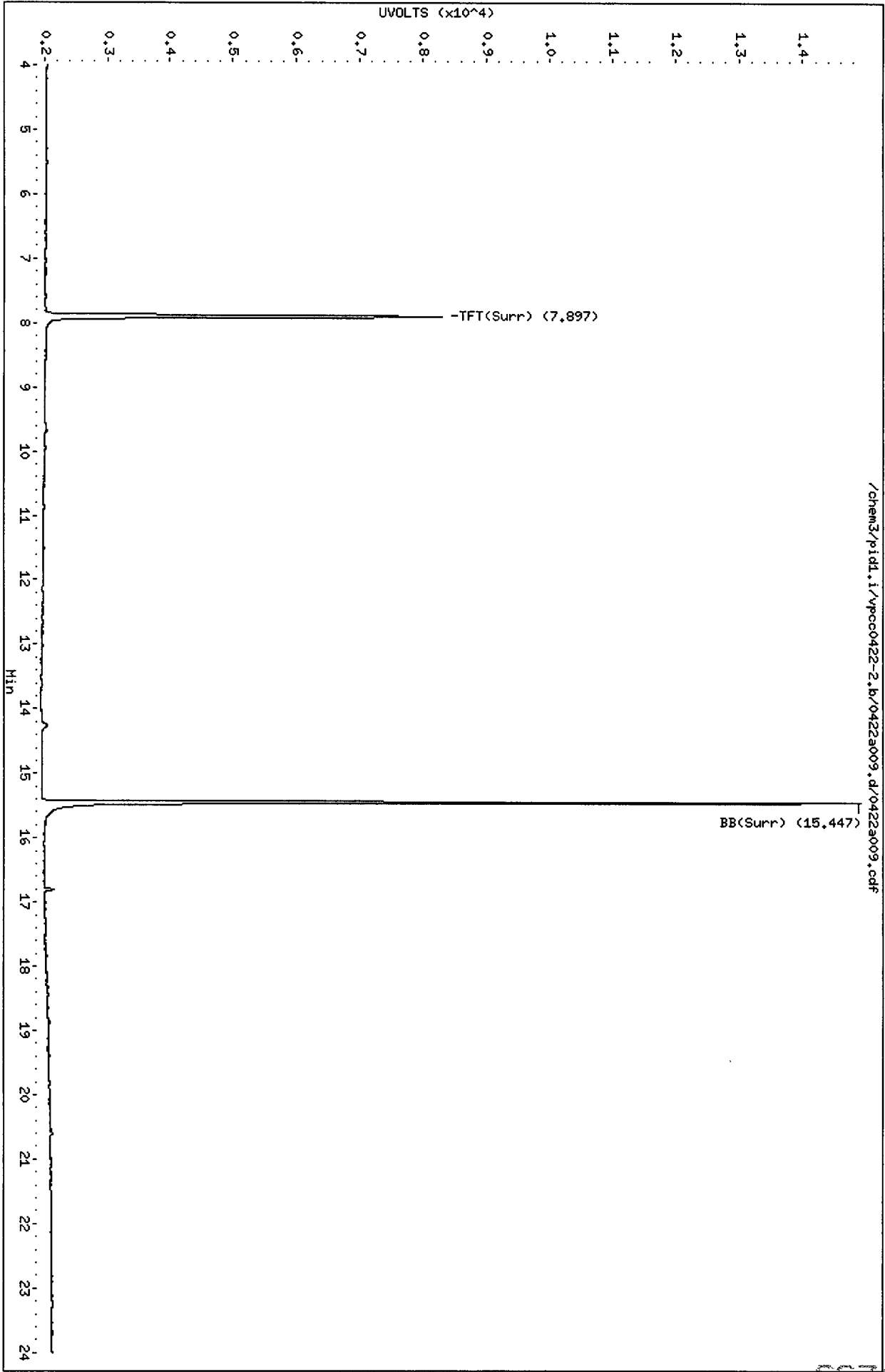


001551 : SS71

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a009.d  
Date: 22-APR-2011 10:10  
Client ID: LL-SB6-2-4-041811  
Sample Info: SS71C

Column phase: RTX 502-2 PID

Operator: MH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0422-2.b/0422a009.d/0422a009.cdf

11 01 17 55



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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a010.d      ARI ID: SS71D  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a010.d      Client ID: LL-SB5-0-0.5-041811  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 10:39  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| --     | ----- | -----  | ----  | ---- | -----     |
| 7.899  | 0.000 | 2781   | 37531 | 98.3 | TFT(Surr) |
| 15.446 | 0.000 | 1983   | 16556 | 95.1 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 6067        | 0.016  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 3476        | 0.005  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 3024        | 0.005  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 7393        | 0.018  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| --     | ----- | -----    | ---- | -----     |
| 7.897  | 0.001 | 6294     | 96.6 | TFT(Surr) |
| 15.447 | 0.001 | 13030    | 96.7 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| -- | ----- | -----    | -----  | -----        |
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

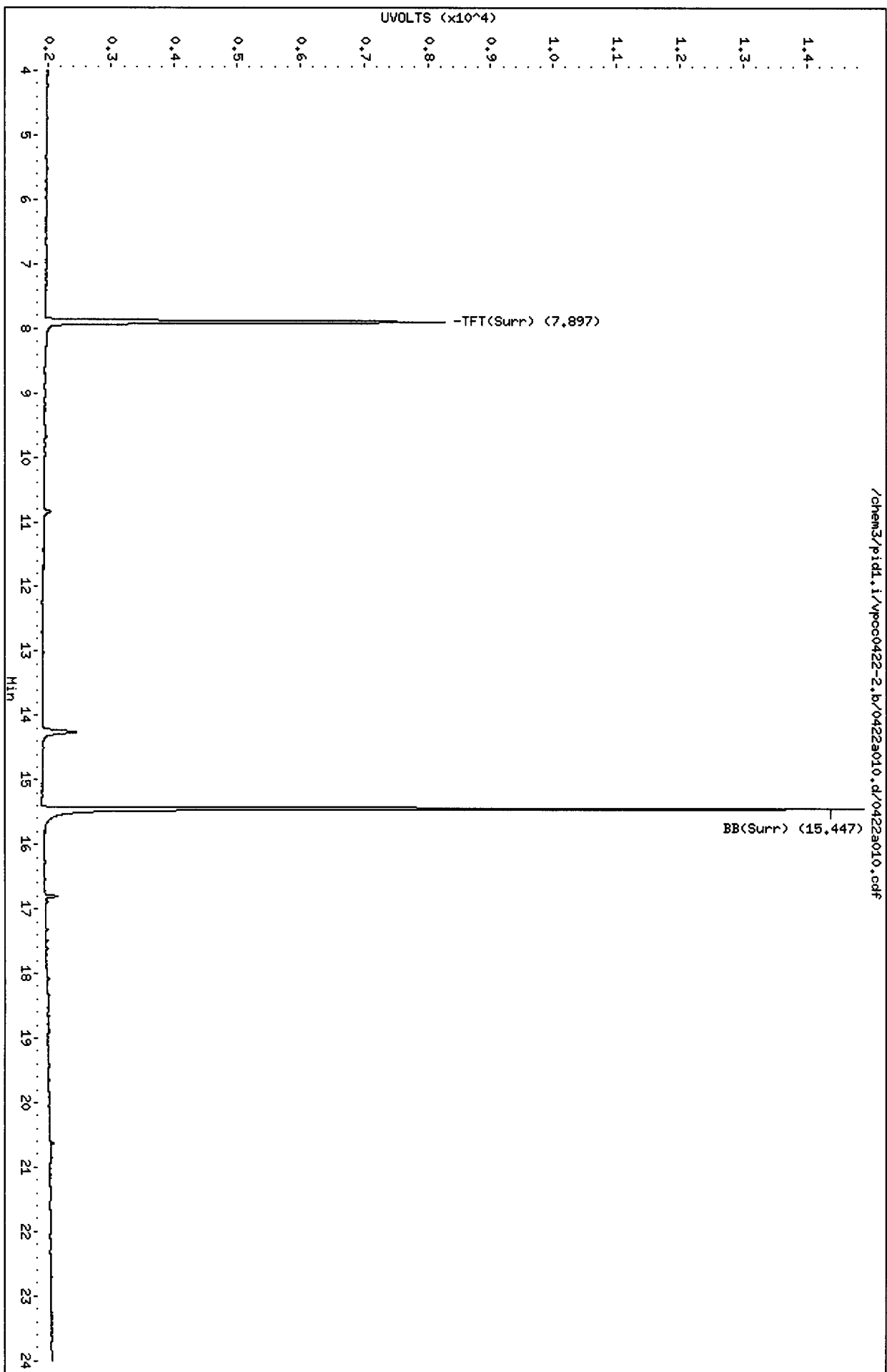


Data File: /chem3/pid1.i/vpcc0422-2.b/0422a010.d  
Date: 22-APR-2011 10:39  
Client ID: LL-SBS-0-0.5-041811  
Sample Info: SS71D

Page 1

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a011.d      ARI ID: SS71E  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a011.d      Client ID: LL-SB5-1.5-2-041811  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 11:08  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

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FID Surrogates

| RT     | Shift  | Height | Area  | %Rec | Compound  |
|--------|--------|--------|-------|------|-----------|
| 7.898  | -0.001 | 2763   | 37284 | 97.7 | TFT(Surr) |
| 15.447 | 0.001  | 2010   | 16788 | 96.4 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

-----

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 815         | 0.002  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 0           | 0.000  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 0           | 0.000  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 1406        | 0.003  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

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PID Surrogates

| RT     | Shift  | Response | %Rec | Compound  |
|--------|--------|----------|------|-----------|
| 7.896  | -0.001 | 6353     | 97.5 | TFT(Surr) |
| 15.447 | 0.001  | 13145    | 97.5 | BB(Surr)  |

SW8021 (PID)

-----

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

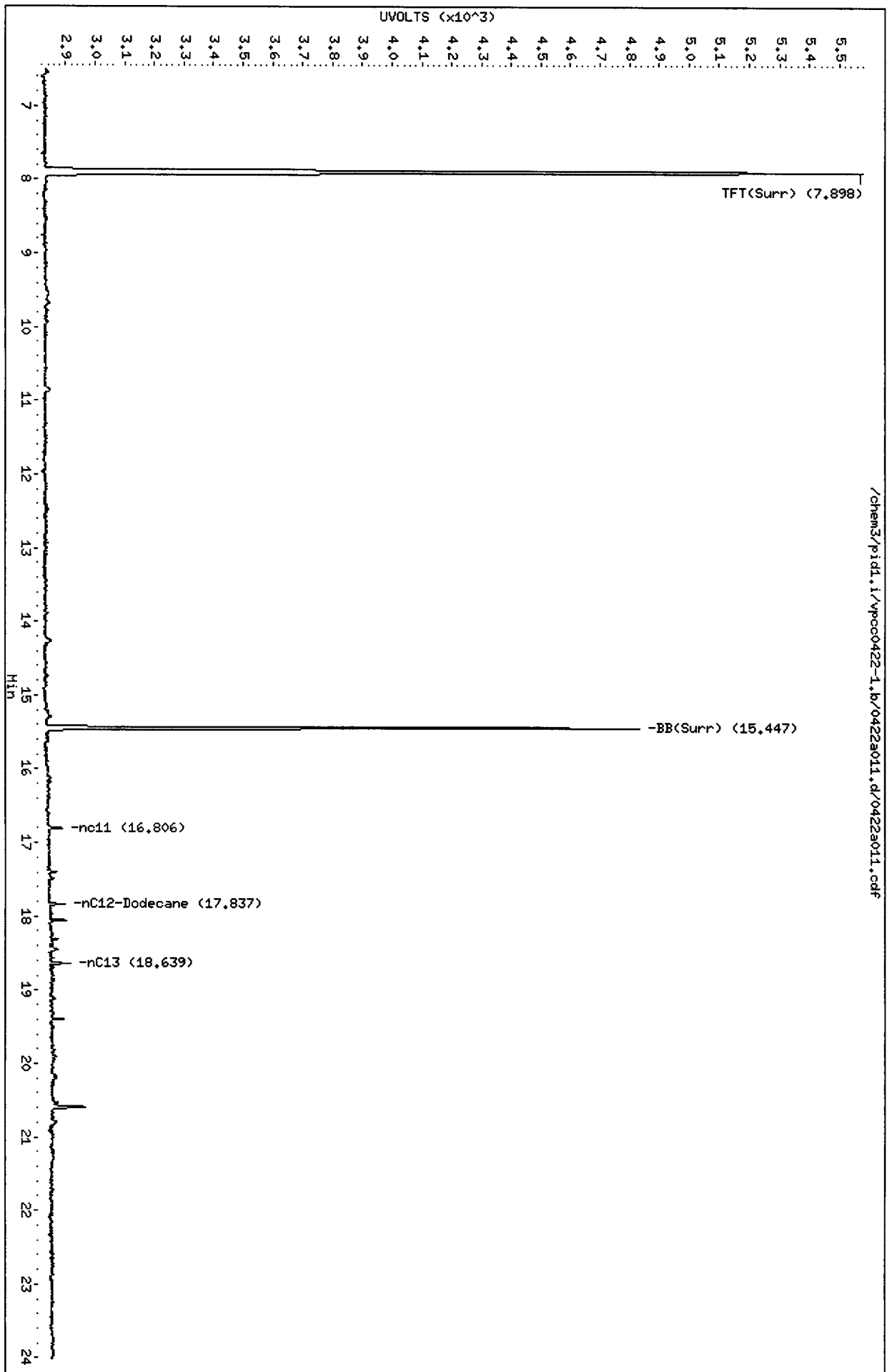
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a011.d  
Date: 22-APR-2011 11:08  
Client ID: LL-SBS-1.5-2-041811  
Sample Info: SS71E

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a011.d/0422a011.cdf

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18

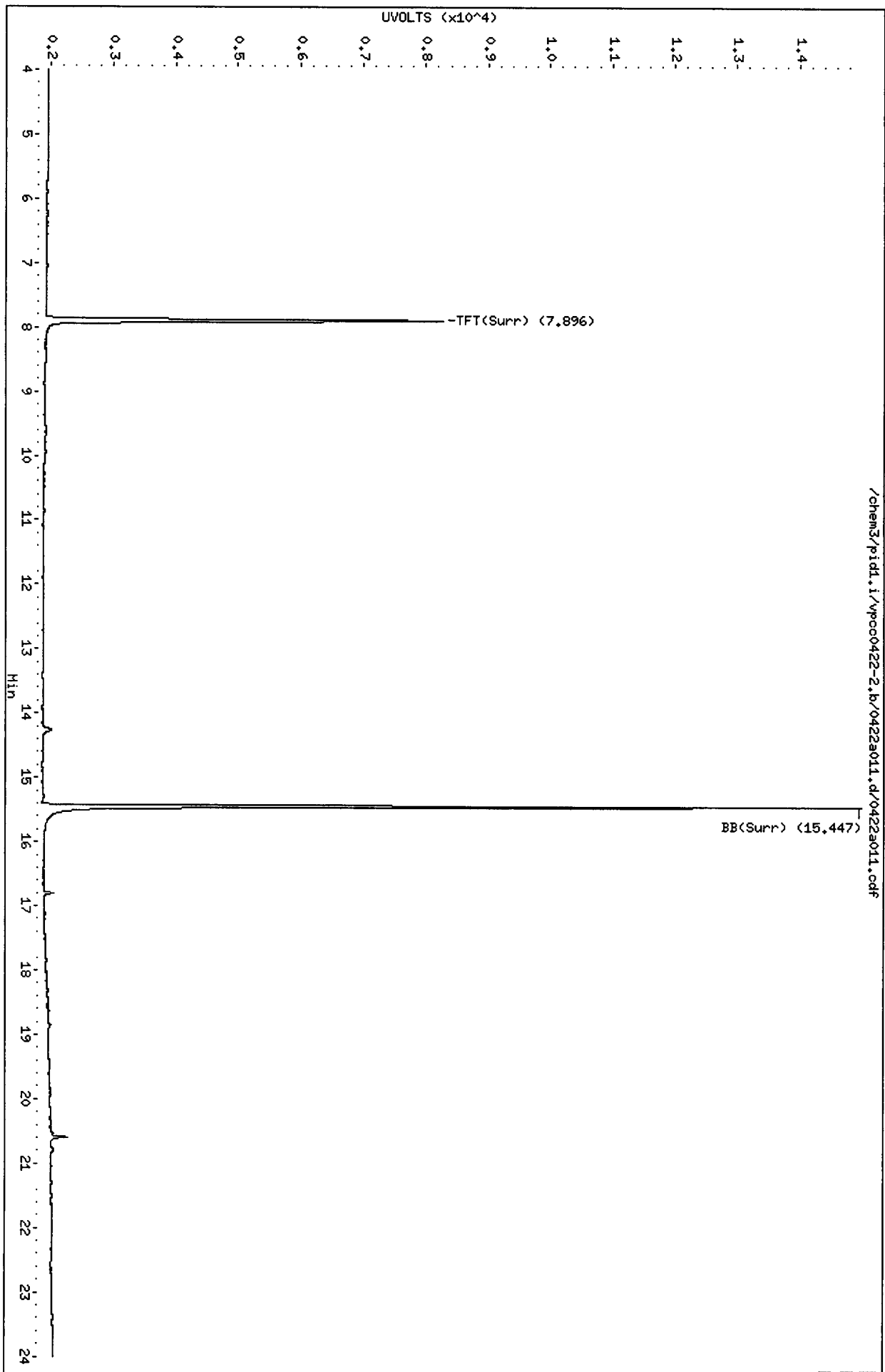


20051011

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a011.d  
Date : 22-APR-2011 11:08  
Client ID: LL-SBS-1.5-2-041811  
Sample Info: SS71E

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



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1100

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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a012.d      ARI ID: SS71F  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a012.d      Client ID: LL-SB5-2-4-041811  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 11:37  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| --     | ----- | -----  | ----  | ---- | -----     |
| 7.899  | 0.000 | 2759   | 37577 | 97.5 | TFT(Surr) |
| 15.447 | 0.001 | 2010   | 16915 | 96.4 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 26633       | 0.071  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 22963       | 0.031  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 22962       | 0.038  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 27686       | 0.069  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| --     | ----- | -----    | ---- | -----     |
| 7.897  | 0.001 | 6253     | 96.0 | TFT(Surr) |
| 15.448 | 0.002 | 13150    | 97.6 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| -- | ----- | -----    | -----  | -----        |
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

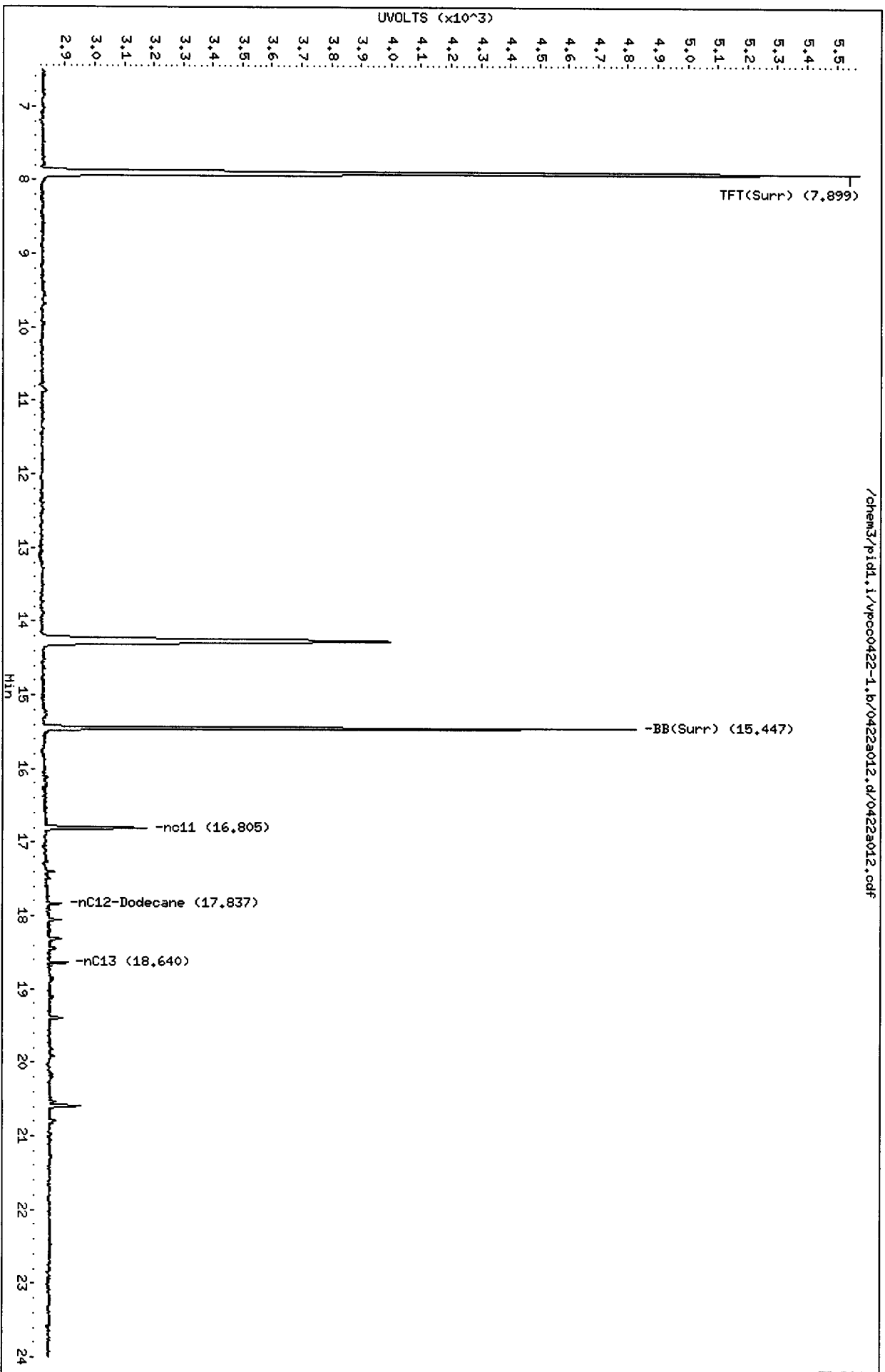
Data File: /chem3/pid1.i/vpcc0422-1.b/0422a012.d  
Date : 22-APR-2011 11:37  
Client ID: LL-SBS-2-4-041811  
Sample Info: SS71F

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a012.d/0422a012.cdf

Instrument: pid1.i

Operator: MH  
Column diameter: 0.18



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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a014.d      ARI ID: BCAL 2  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a014.d      Client ID:  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 12:36  
Instrument: pid1.i    Matrix: WATER  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift  | Height | Area  | %Rec  | Compound  |
|--------|--------|--------|-------|-------|-----------|
| --     | -----  | -----  | ----- | ----- | -----     |
| 7.897  | -0.002 | 2763   | 37563 | 97.7  | TFT(Surr) |
| 15.446 | 0.000  | 2015   | 16768 | 96.6  | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 233498      | 0.623  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 231121      | 0.309  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 214117      | 0.354  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 233697      | 0.579  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift  | Response | %Rec  | Compound  |
|--------|--------|----------|-------|-----------|
| --     | -----  | -----    | ----- | -----     |
| 7.896  | -0.001 | 6265     | 96.2  | TFT(Surr) |
| 15.447 | 0.001  | 13110    | 97.3  | BB(Surr)  |

SW8021 (PID)

| RT     | Shift  | Response | Amount | Compound     |
|--------|--------|----------|--------|--------------|
| --     | -----  | -----    | -----  | -----        |
| 7.045  | -0.006 | 10636    | 24.26  | Benzene      |
| 9.942  | 0.000  | 9259     | 23.68  | Toluene      |
| 12.846 | 0.000  | 8308     | 24.32  | Ethylbenzene |
| 13.008 | 0.001  | 17614    | 47.97  | M/P-Xylene   |
| 13.966 | 0.001  | 7215     | 25.20  | O-Xylene     |
| 4.522  | -0.004 | 3820     | 22.50  | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated





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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a015.d      ARI ID: GCAL 2  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a015.d      Client ID:  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 13:05  
Instrument: pid1.i    Matrix: WATER  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift  | Height | Area  | %Rec  | Compound  |
|--------|--------|--------|-------|-------|-----------|
| 7.898  | -0.001 | 3004   | 52886 | 106.2 | TFT(Surr) |
| 15.447 | 0.001  | 2022   | 18571 | 97.0  | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount  |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 877458      | 2.341 M |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 1807990     | 2.420 M |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 1458981     | 2.415 M |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 929976      | 2.305 M |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.898  | 0.001 | 6508     | 99.9 | TFT(Surr) |
| 15.448 | 0.002 | 13262    | 98.4 | BB(Surr)  |

SW8021 (PID)

| RT     | Shift | Response | Amount | Compound     |
|--------|-------|----------|--------|--------------|
| 7.057  | 0.007 | 3330     | 7.60   | Benzene      |
| 9.944  | 0.002 | 35478    | 90.73  | Toluene      |
| 12.848 | 0.002 | 9015     | 26.39  | Ethylbenzene |
| 13.014 | 0.006 | 36054    | 98.18  | M/P-Xylene   |
| 13.968 | 0.003 | 12878    | 44.97  | O-Xylene     |
| 4.528  | 0.002 | 717      | 4.22   | MTBE         |

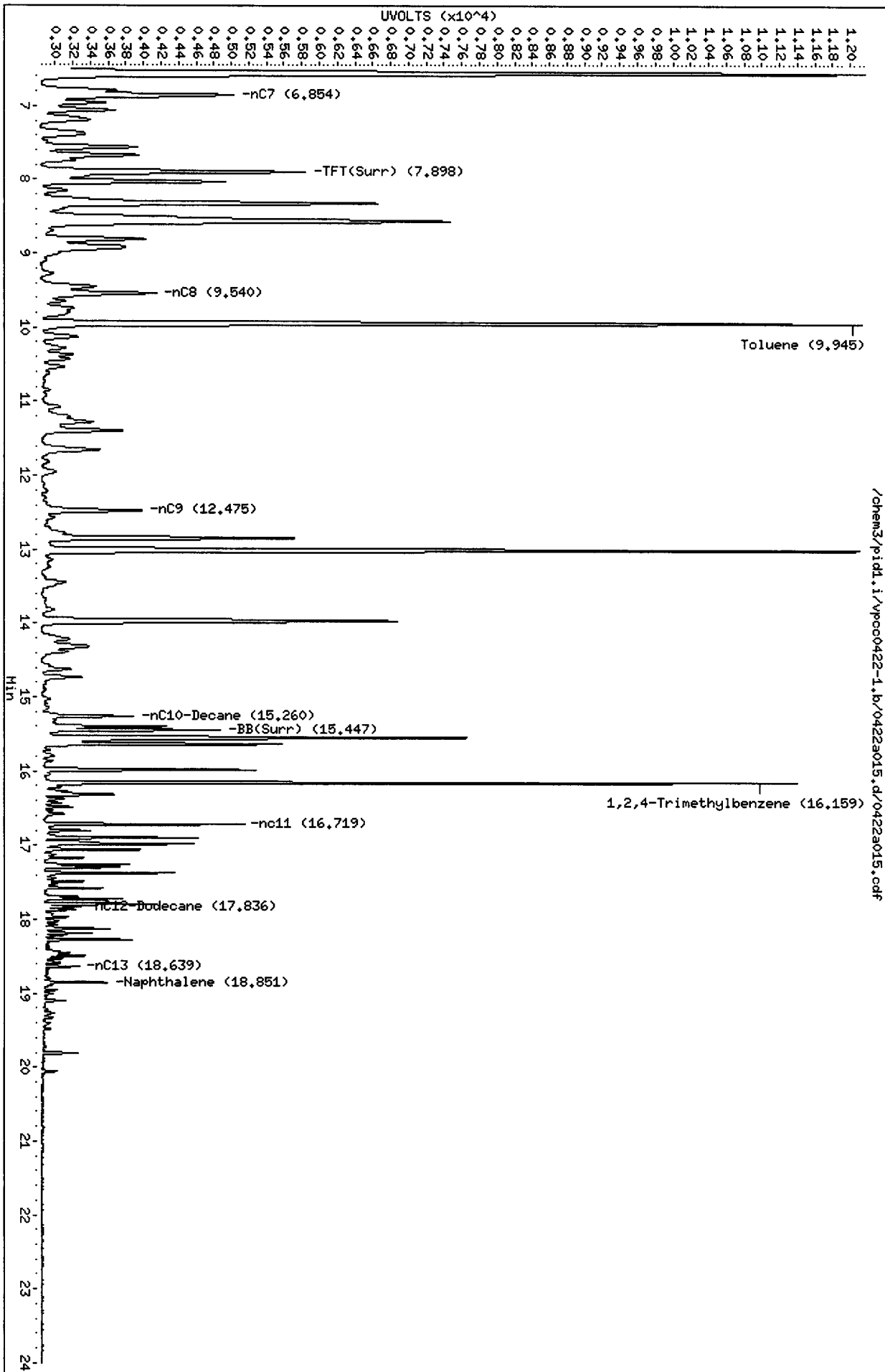
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a015.d  
Date: 22-APR-2011 13:05  
Client ID:  
Sample Info: GCAL 2

Column phase: RTX 502-2 FID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0422-2.b/0422a015.d

Date: 22-APR-2011 13:05

Client ID:

Sample Info: GCAL 2

Page 1

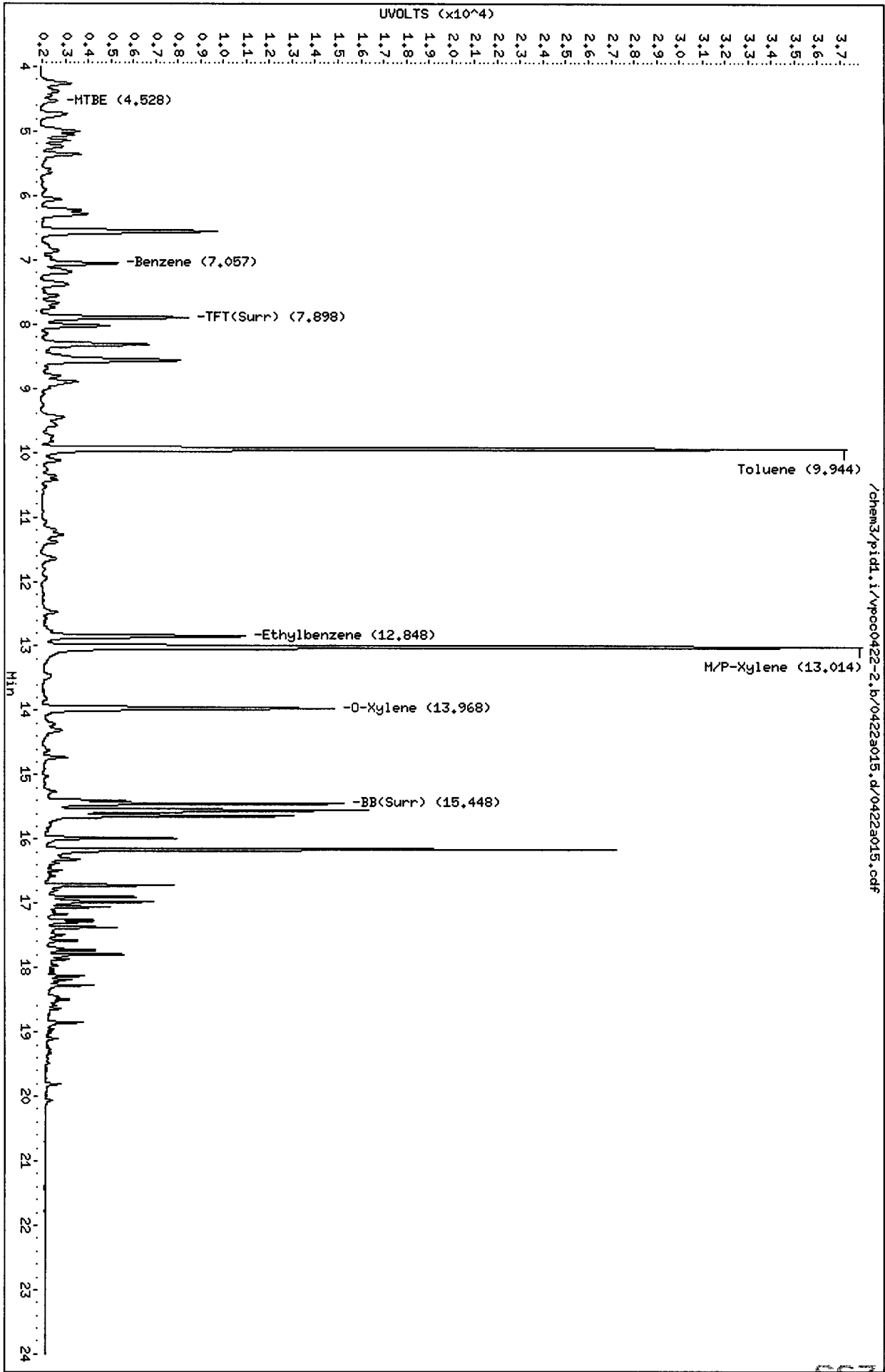
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

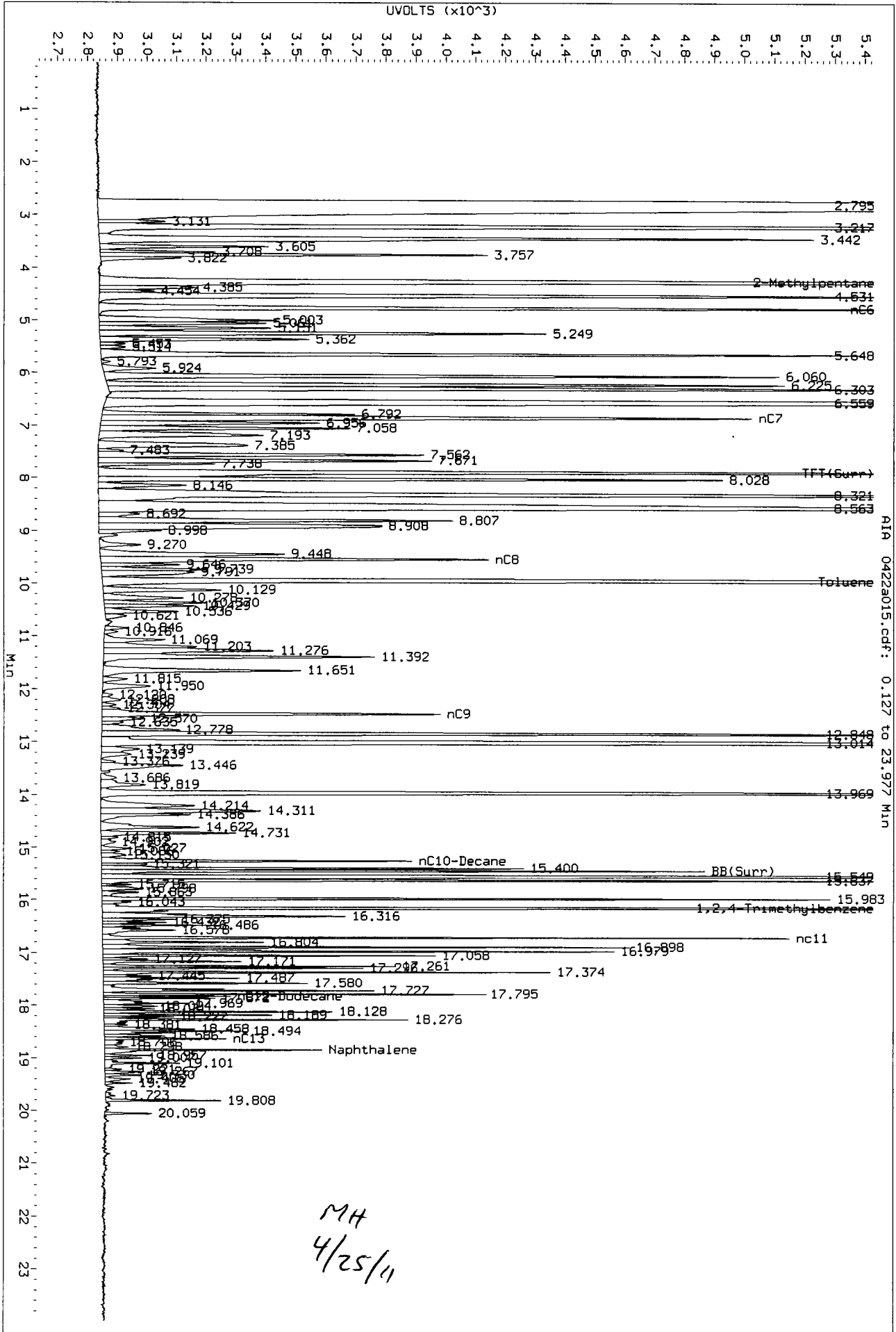
Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0422-2.b/0422a015.d/0422a015.cdf



15100

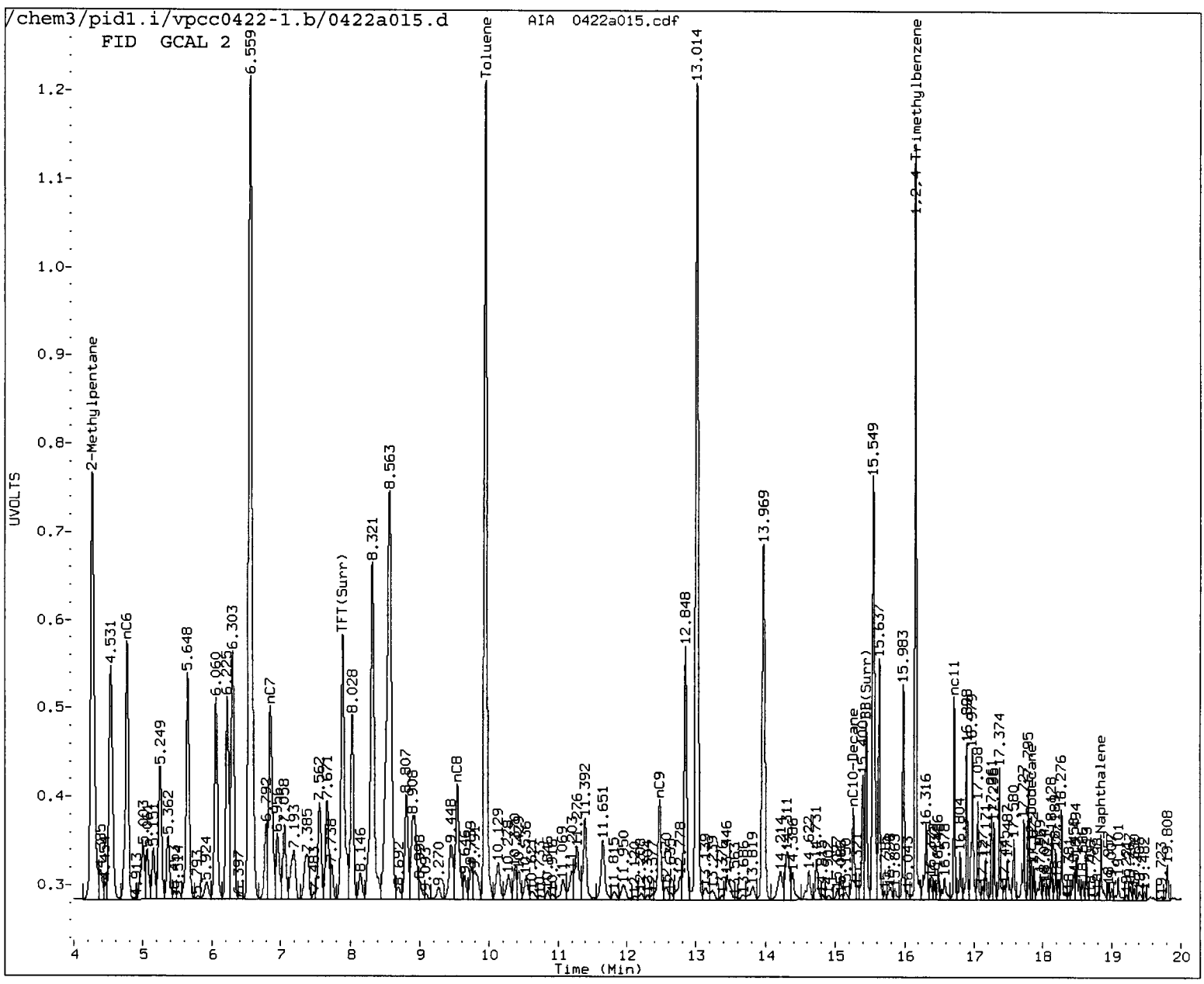
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 Injection Date: 22-APR-2011 13:05  
 Instrument: p1d1.1  
 Client Sample ID:



AIA 0422a015.cdf: 0.127 to 23.977 Min

MH  
4/25/11





MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other \_\_\_\_\_

Analyst: MM

Date: 4/25/11

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a016.d      ARI ID: SS71G  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a016.d      Client ID: LL-SB4-0-0.5-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 13:34  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.898  | 0.000 | 2708   | 36540 | 95.7 | TFT(Surr) |
| 15.447 | 0.001 | 1944   | 16534 | 93.2 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 15598       | 0.042  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 16062       | 0.022  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 11626       | 0.019  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 16847       | 0.042  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.896  | 0.000 | 6113     | 93.9 | TFT(Surr) |
| 15.447 | 0.001 | 12846    | 95.3 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

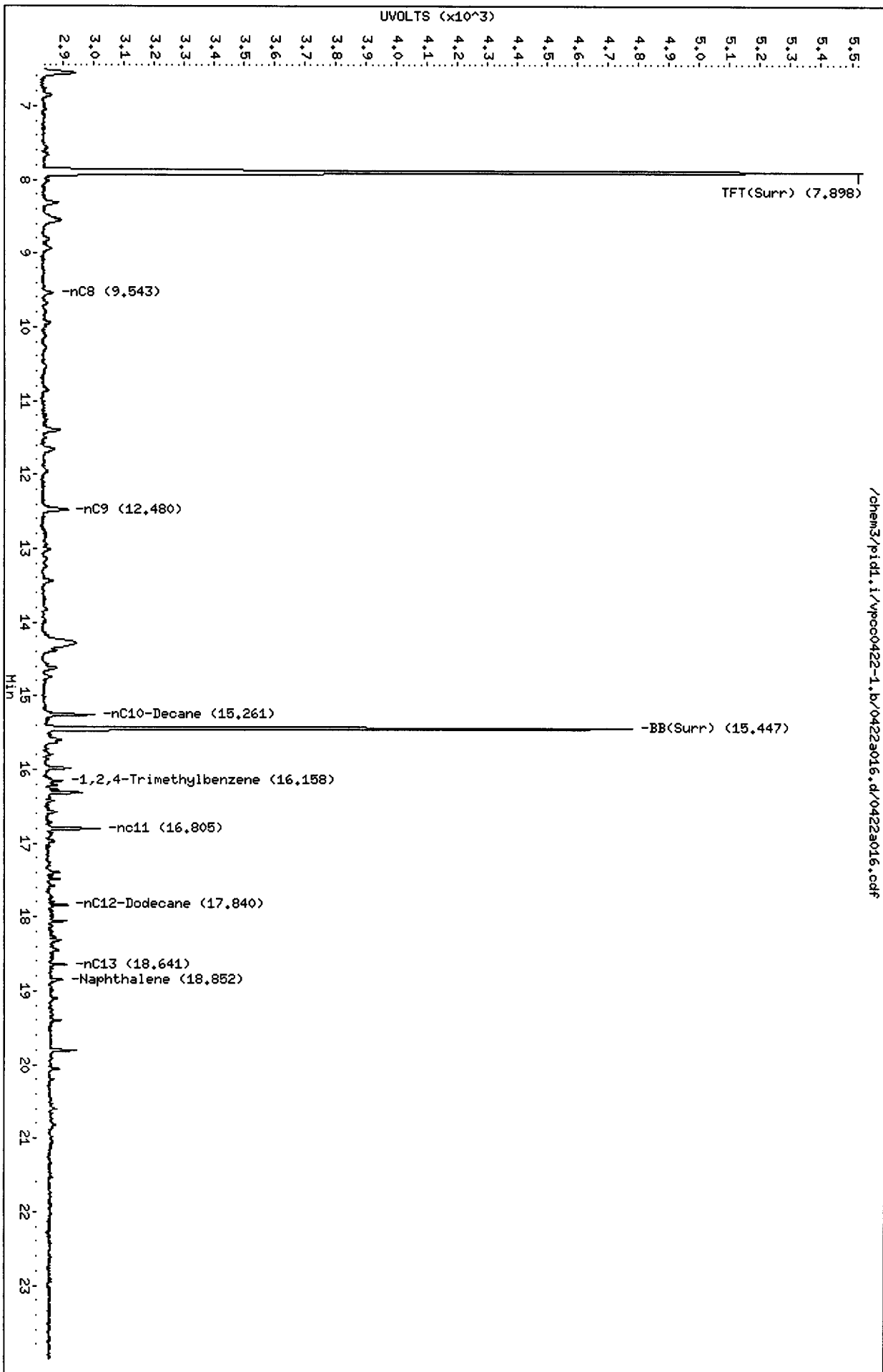
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a016.d  
Date : 22-APR-2011 13:34  
Client ID: LL-SB4-0-0.5-041911  
Sample Info: SS71G

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a016.d/0422a016.cdf

Instrument: pid1.i  
Operator: NH  
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0422-2.b/0422a016.d

Date: 22-APR-2011 13:34

Client ID: LL-SB4-0-0.5-041911

Sample Info: SS71G

Page 1

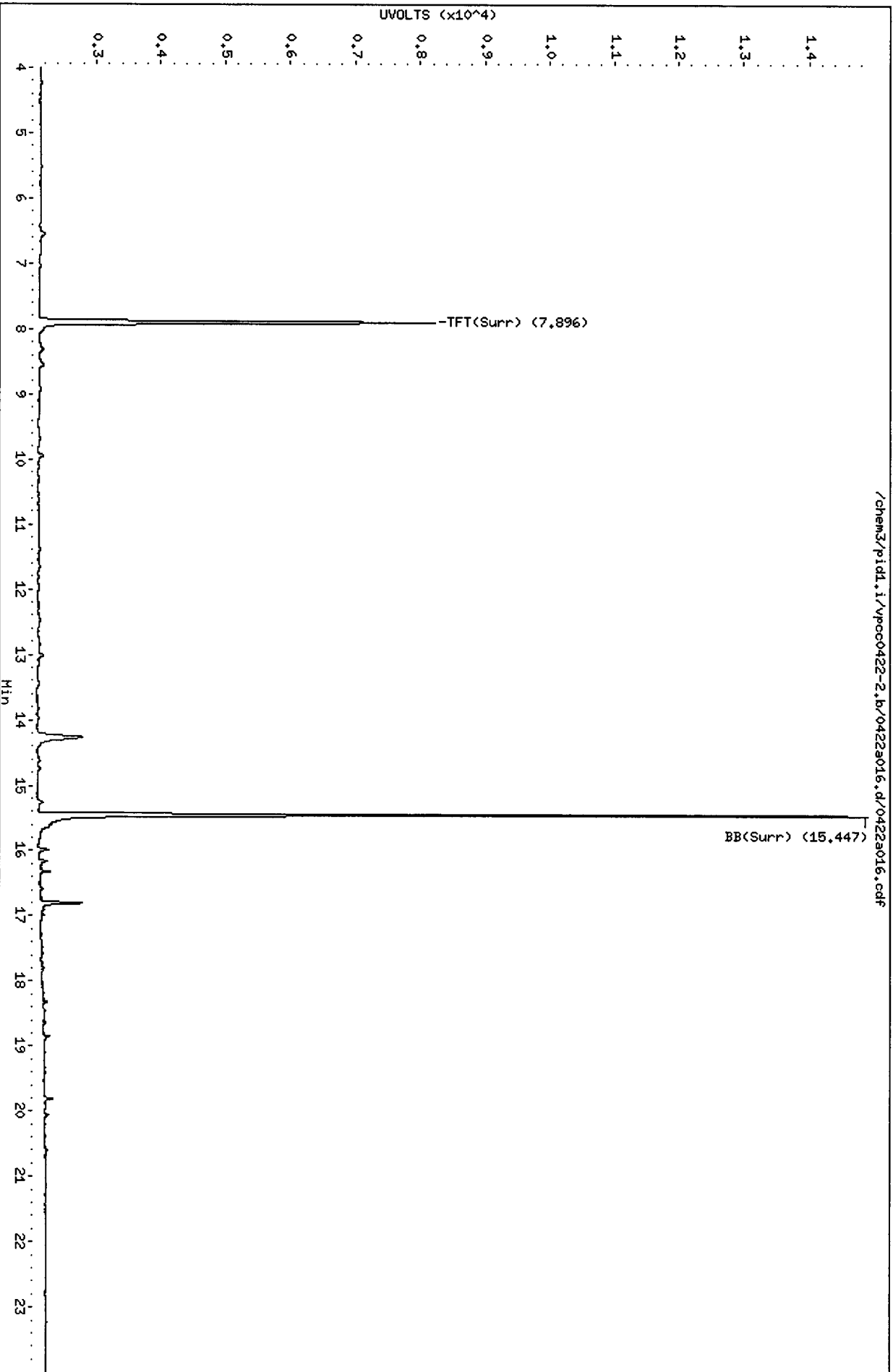
Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0422-2.b/0422a016.d/0422a016.cdf



041574  
0371

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a017.d      ARI ID: SS71H  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a017.d      Client ID: LL-SB4-1.5-2-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 14:03  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift  | Height | Area  | %Rec | Compound  |
|--------|--------|--------|-------|------|-----------|
| 7.898  | -0.001 | 2755   | 37479 | 97.4 | TFT(Surr) |
| 15.447 | 0.001  | 2030   | 16931 | 97.3 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 28892       | 0.077  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 19862       | 0.027  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 19861       | 0.033  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 30209       | 0.075  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift  | Response | %Rec | Compound  |
|--------|--------|----------|------|-----------|
| 7.896  | -0.001 | 6256     | 96.1 | TFT(Surr) |
| 15.447 | 0.001  | 13303    | 98.7 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

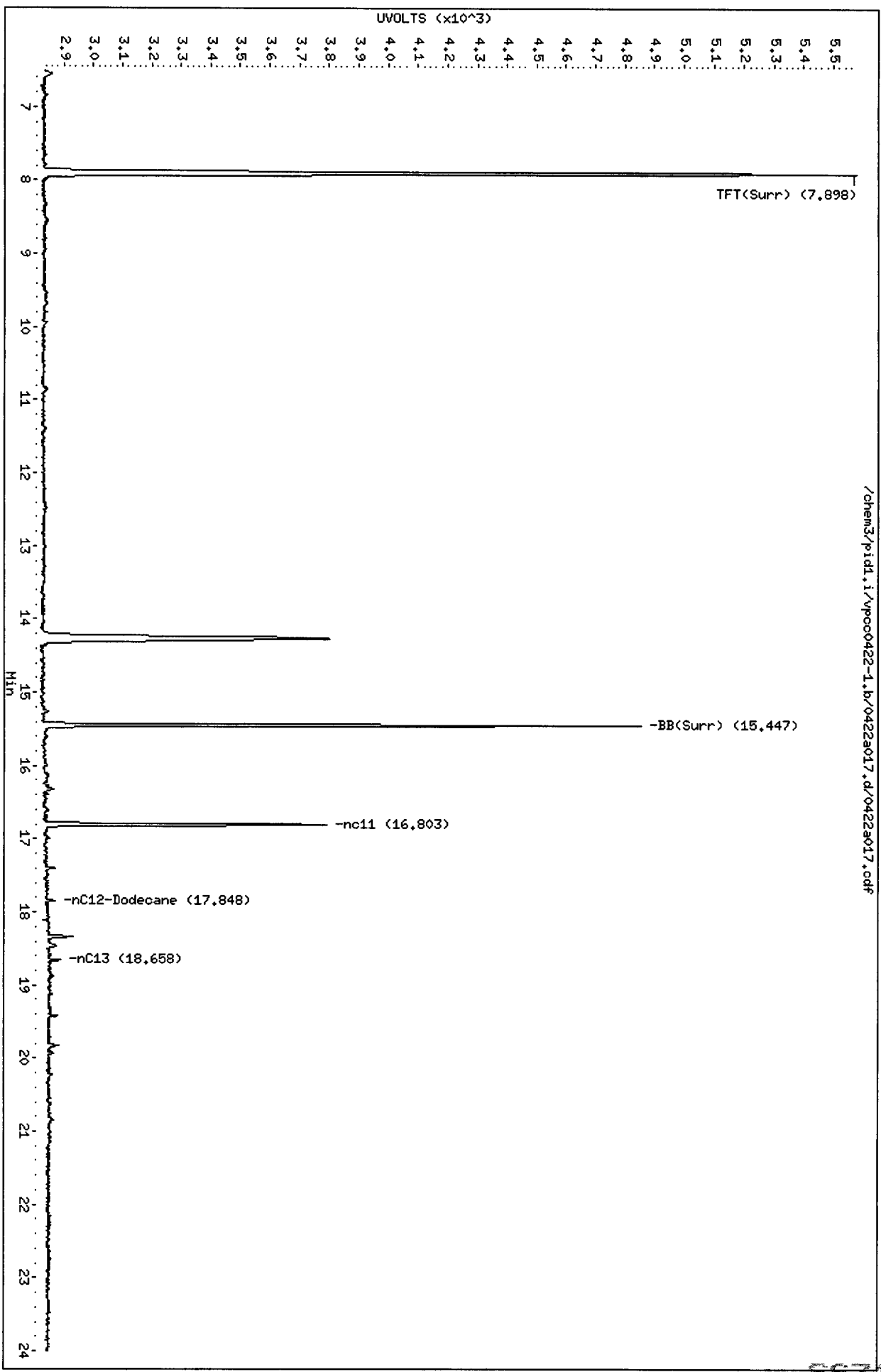
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a017.d  
Date : 22-APR-2011 14:03  
Client ID: LL-SB4-1.5-2-041911  
Sample Info: SS71H

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a017.d/0422a017.cdf

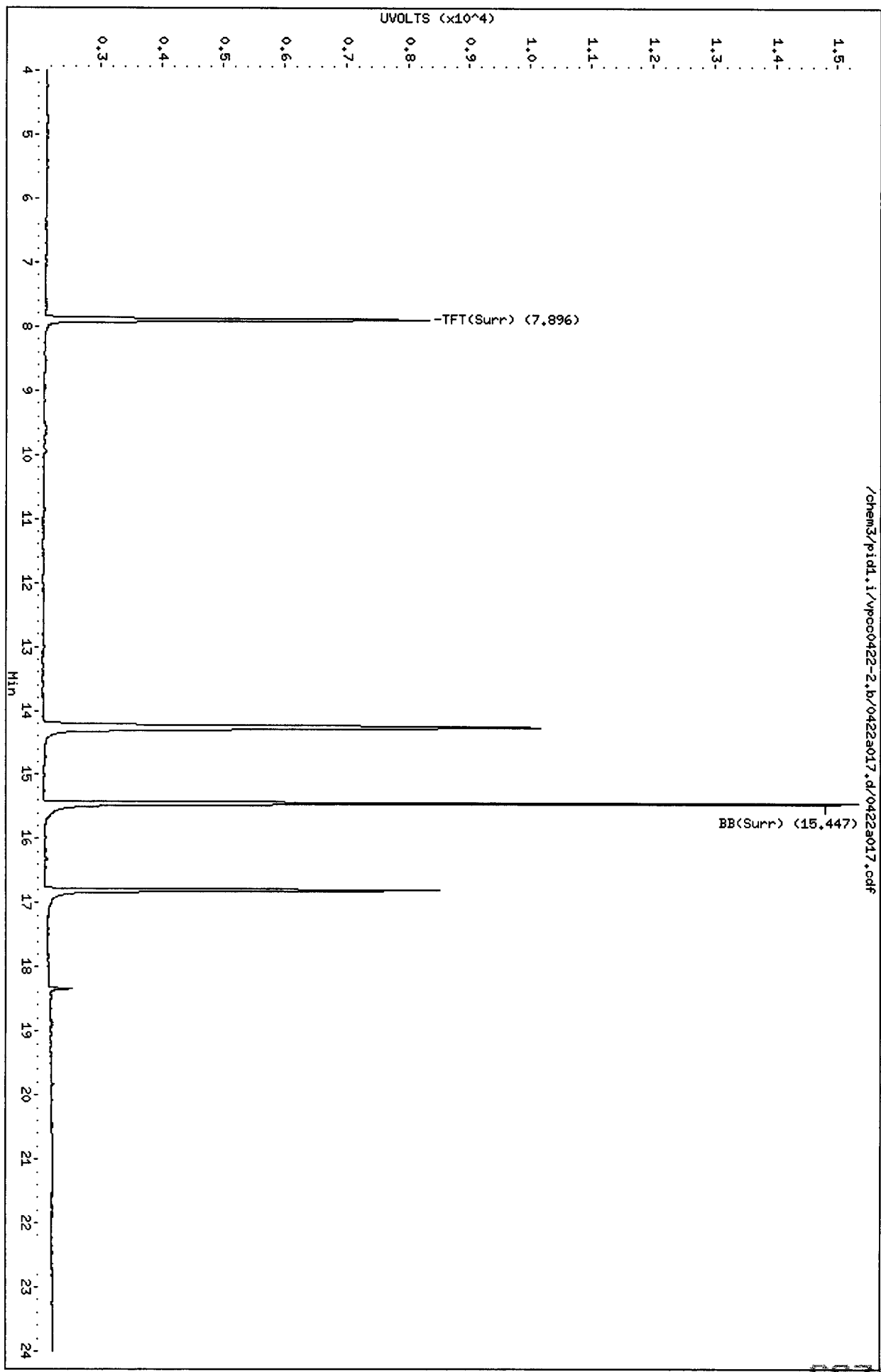
Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0422-2.b/0422a017.d  
Date : 22-APR-2011 14:03  
Client ID: LL-SB4-1.5-2-041911  
Sample Info: SS71H

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



005100 : 1.50

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a018.d      ARI ID: SS71I  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a018.d      Client ID: LL-SB4-2-4-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 14:32  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.900  | 0.002 | 2702   | 37473 | 95.5 | TFT(Surr) |
| 15.448 | 0.002 | 1962   | 16487 | 94.1 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 4420        | 0.012  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 3178        | 0.004  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 3177        | 0.005  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 5397        | 0.013  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.898  | 0.002 | 6100     | 93.7 | TFT(Surr) |
| 15.448 | 0.002 | 12779    | 94.8 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated



Data File: /chem3/pid1.i/vpcc0422-1.b/0422a018.d  
Date: 22-APR-2011 14:32  
Client ID: LL-SB4-2-4-041911  
Sample Info: SS711

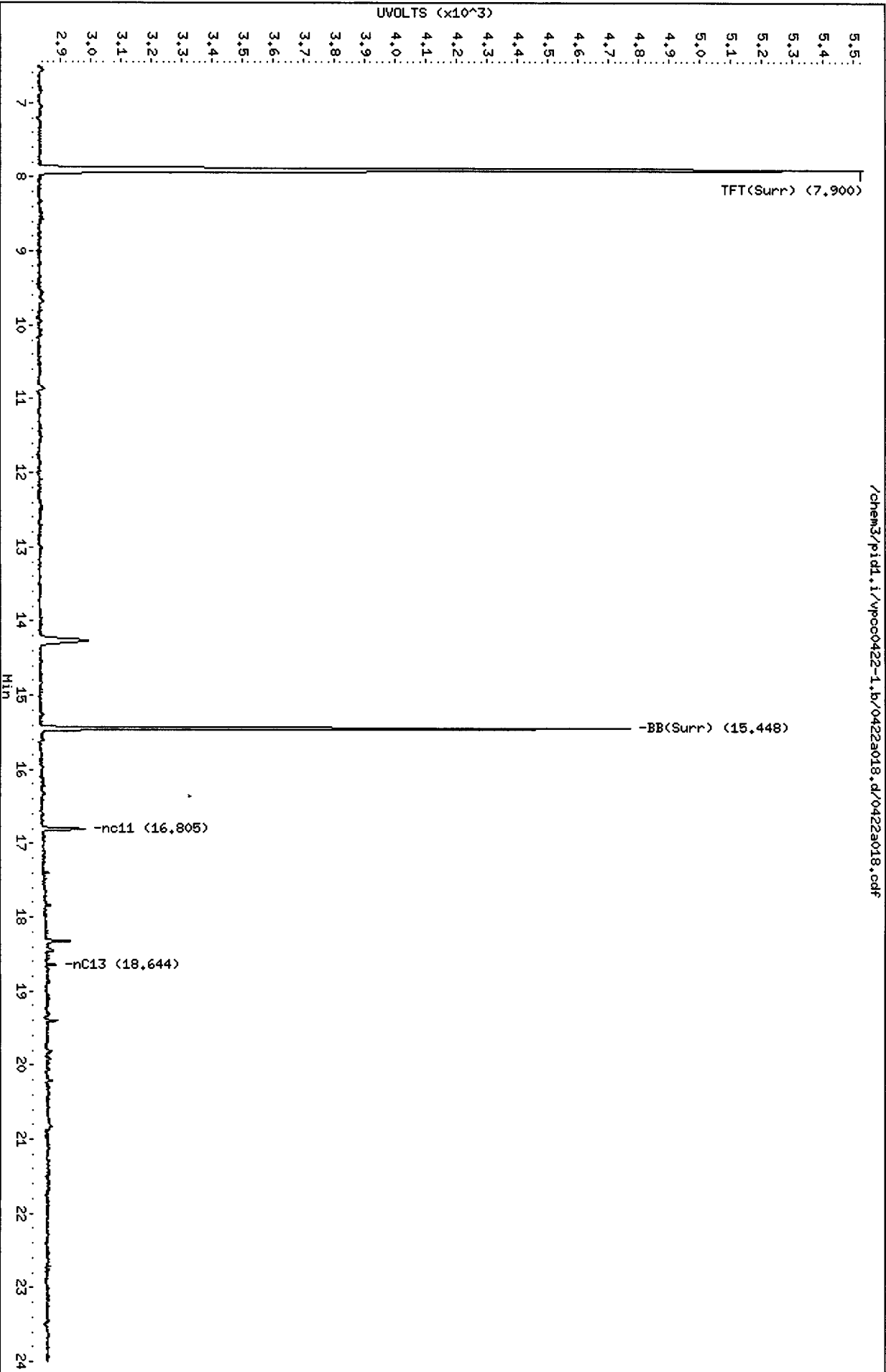
Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a018.d/0422a018.cdf

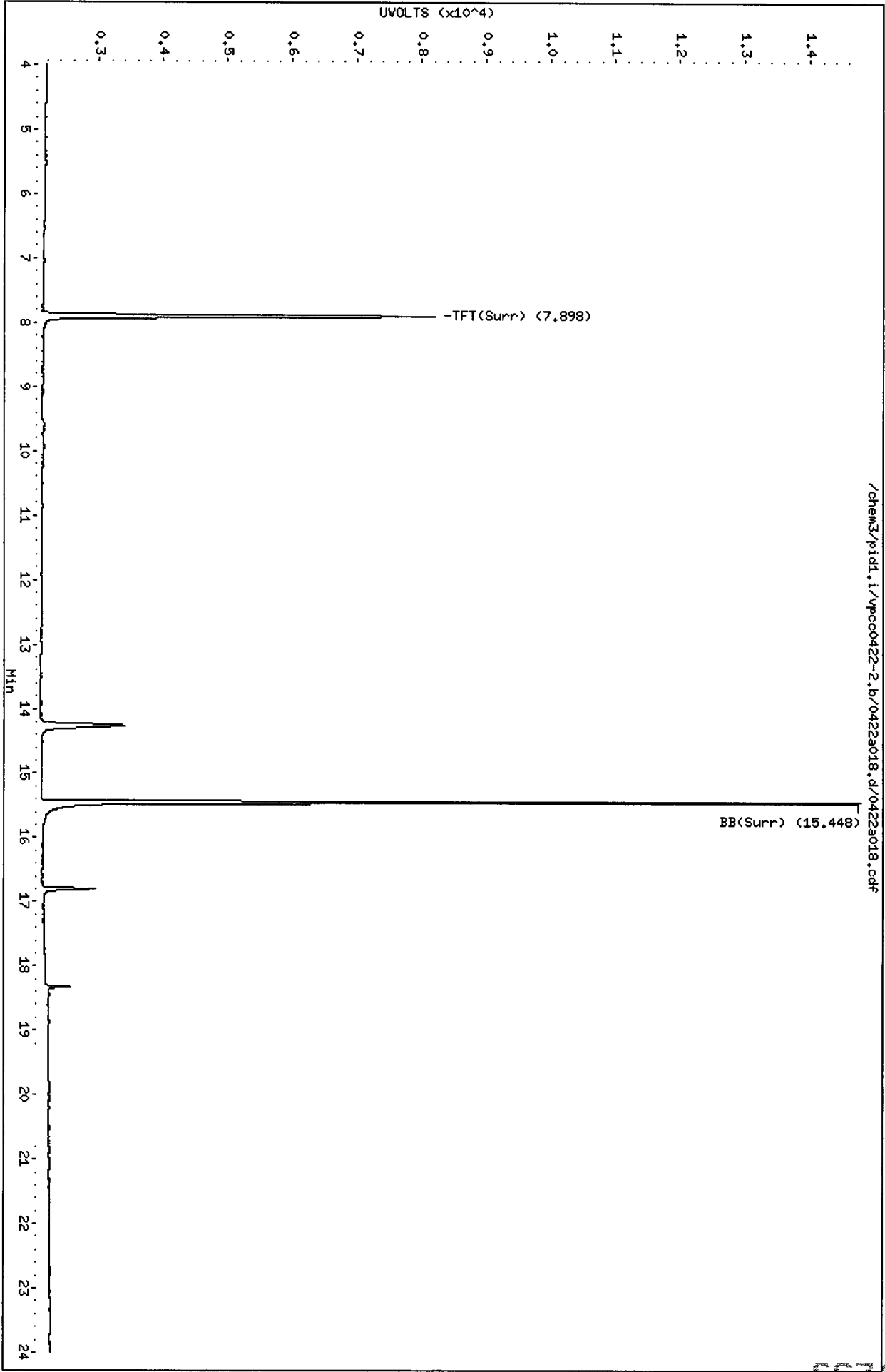


01501

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a018.d  
Date: 22-APR-2011 14:32  
Client ID: LL-SB4-2-4-041911  
Sample Info: SS711

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0422-2.b/0422a018.d/0422a018.cdf

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a019.d      ARI ID: SS71IMS  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a019.d      Client ID: LL-SB4-2-4-0419 MS  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 15:02  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.900  | 0.001 | 2787   | 42442 | 98.5 | TFT(Surr) |
| 15.448 | 0.002 | 1988   | 17436 | 95.3 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount  |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 352952      | 0.942 M |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 728568      | 0.975 M |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 588555      | 0.974 M |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 375858      | 0.932 M |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.898  | 0.001 | 6184     | 95.0 | TFT(Surr) |
| 15.448 | 0.002 | 12977    | 96.3 | BB(Surr)  |

SW8021 (PID)

| RT     | Shift  | Response | Amount | Compound     |
|--------|--------|----------|--------|--------------|
| 7.055  | 0.004  | 1370     | 3.13   | Benzene      |
| 9.943  | 0.001  | 14237    | 36.41  | Toluene      |
| 12.847 | 0.001  | 3574     | 10.46  | Ethylbenzene |
| 13.011 | 0.004  | 14151    | 38.54  | M/P-Xylene   |
| 13.967 | 0.002  | 5098     | 17.80  | O-Xylene     |
| 4.516  | -0.010 | 269      | 1.58   | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a019.d

Date: 22-APR-2011 15:02

Client ID: LL-SB4-2-4-0419 HS

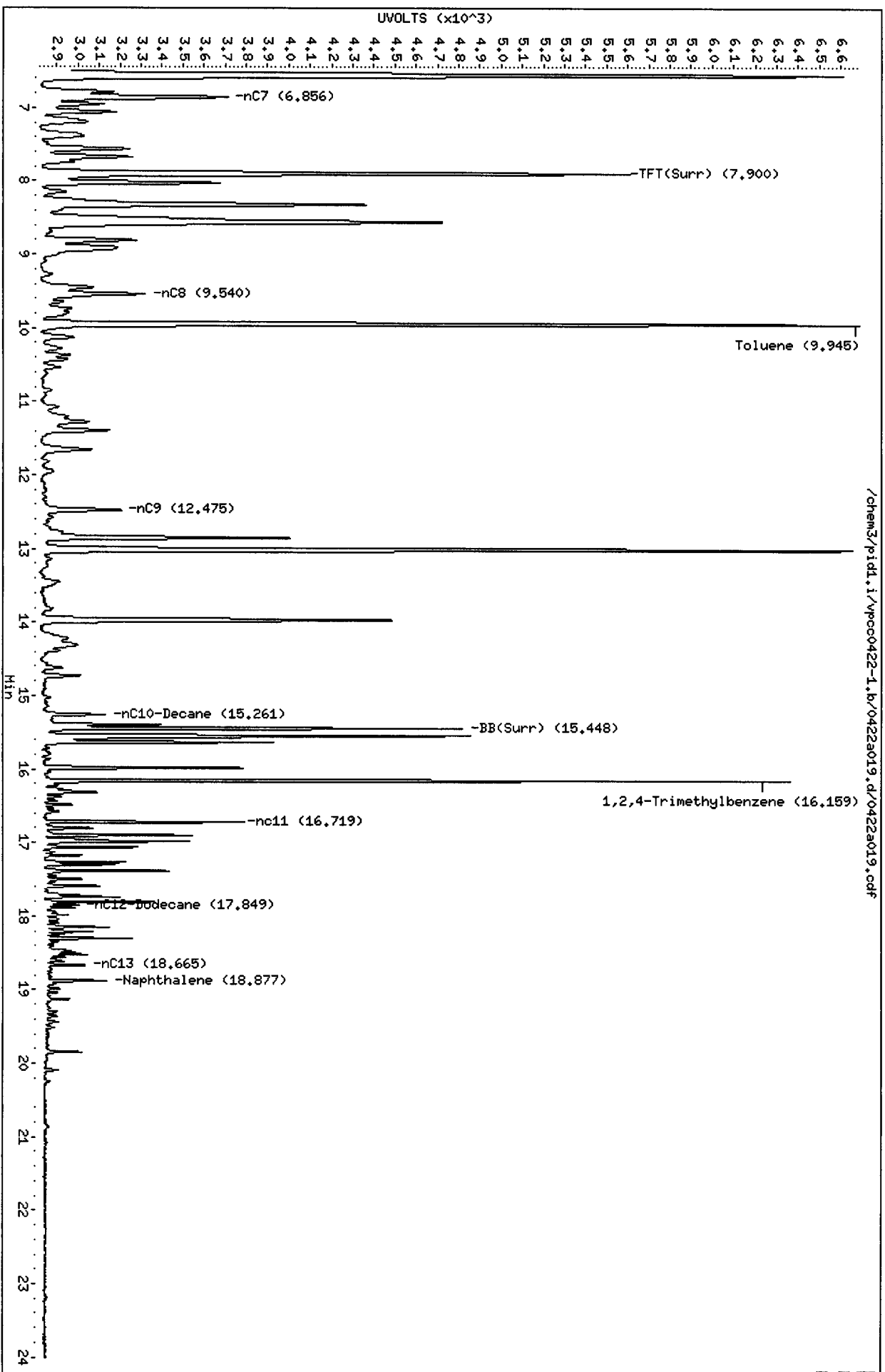
Sample Info: SS71IMS

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

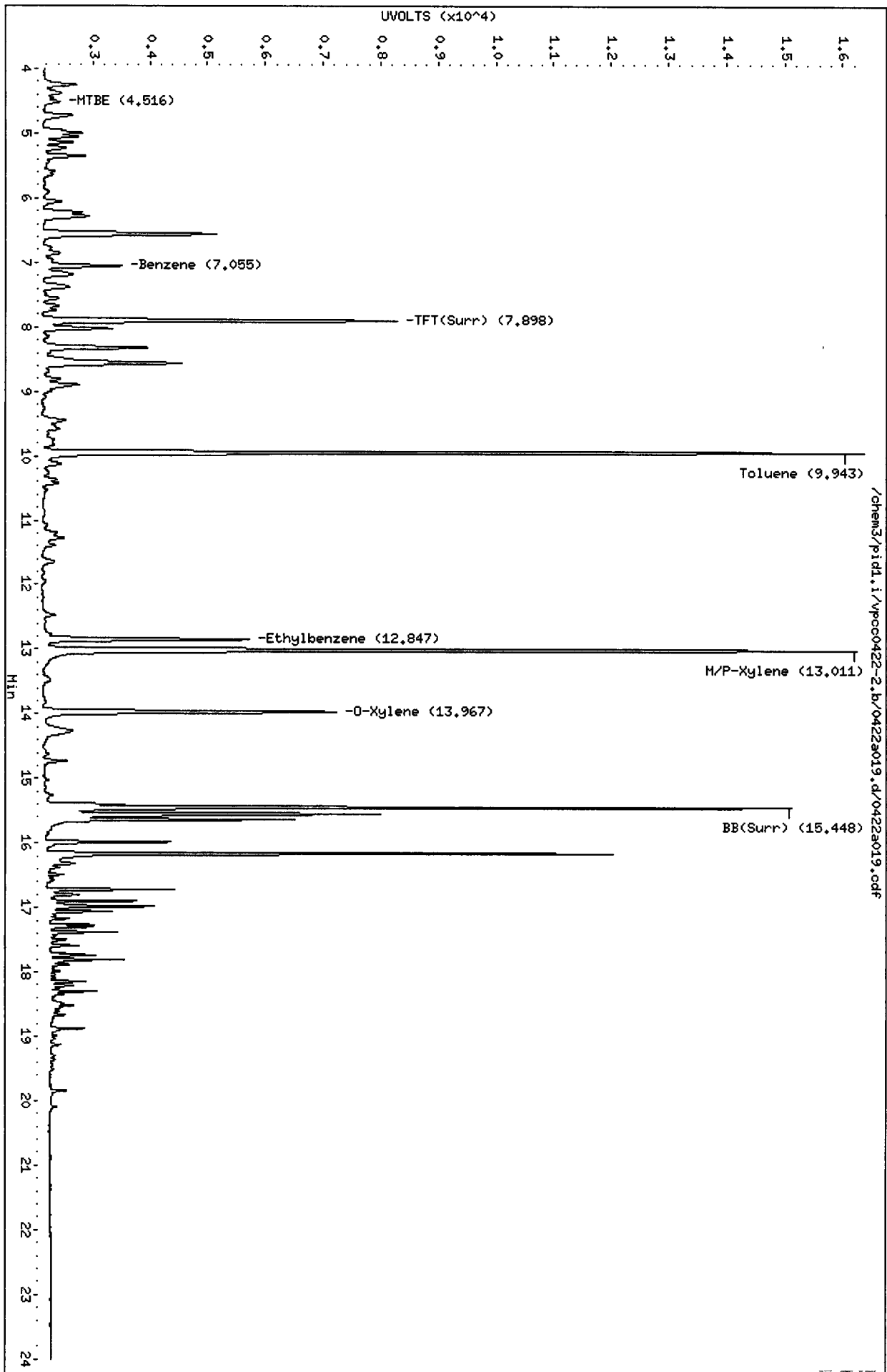


12 13 14 15 16 17 18 19 20 21 22 23 24

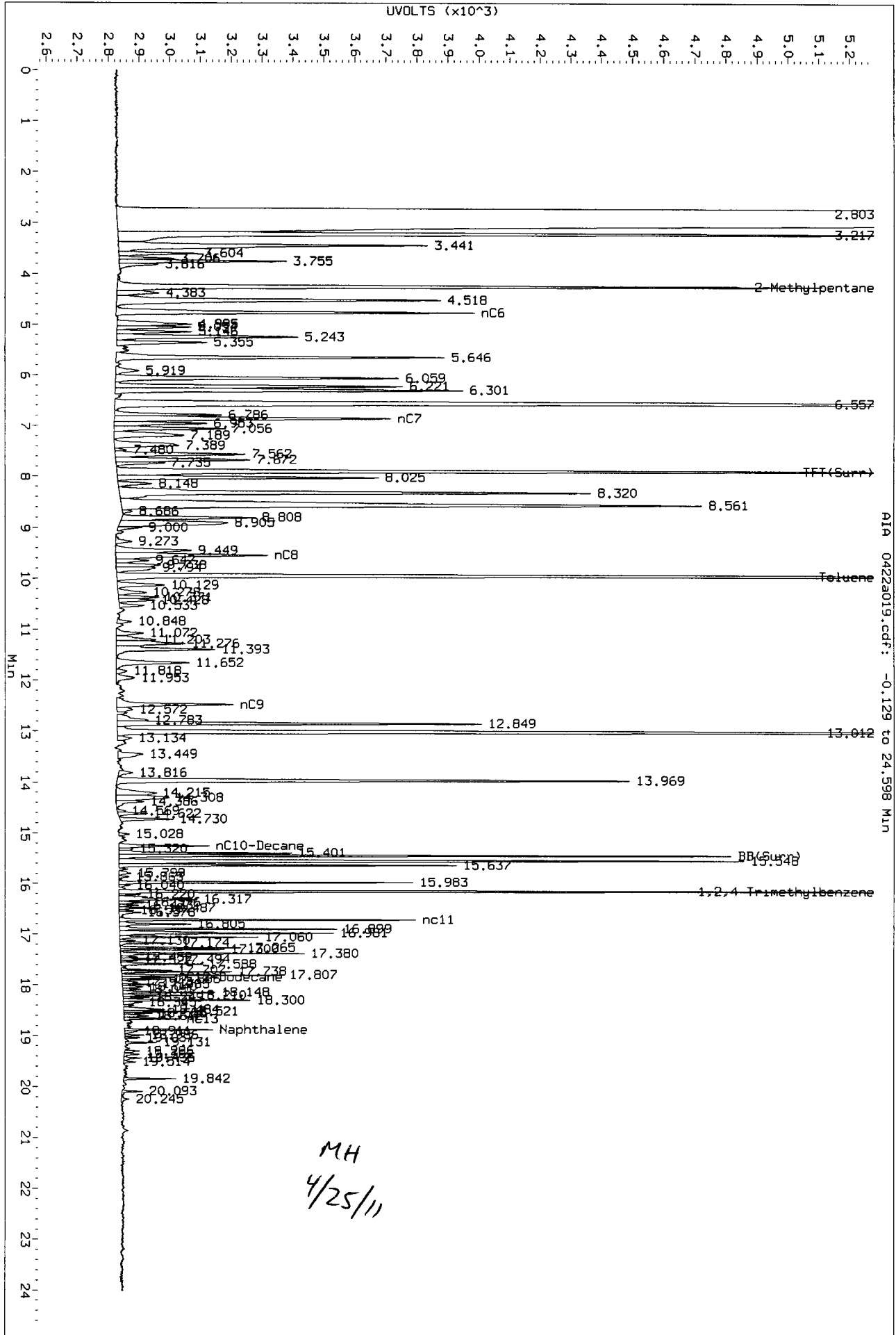
Data File: /chem3/pid1.i/vpcc0422-2.b/0422a019.d  
Date : 22-APR-2011 15:02  
Client ID: LL-SB4-2-4-0419 MS  
Sample Info: SS71IMS

Column phase: RTX 502-2 PID

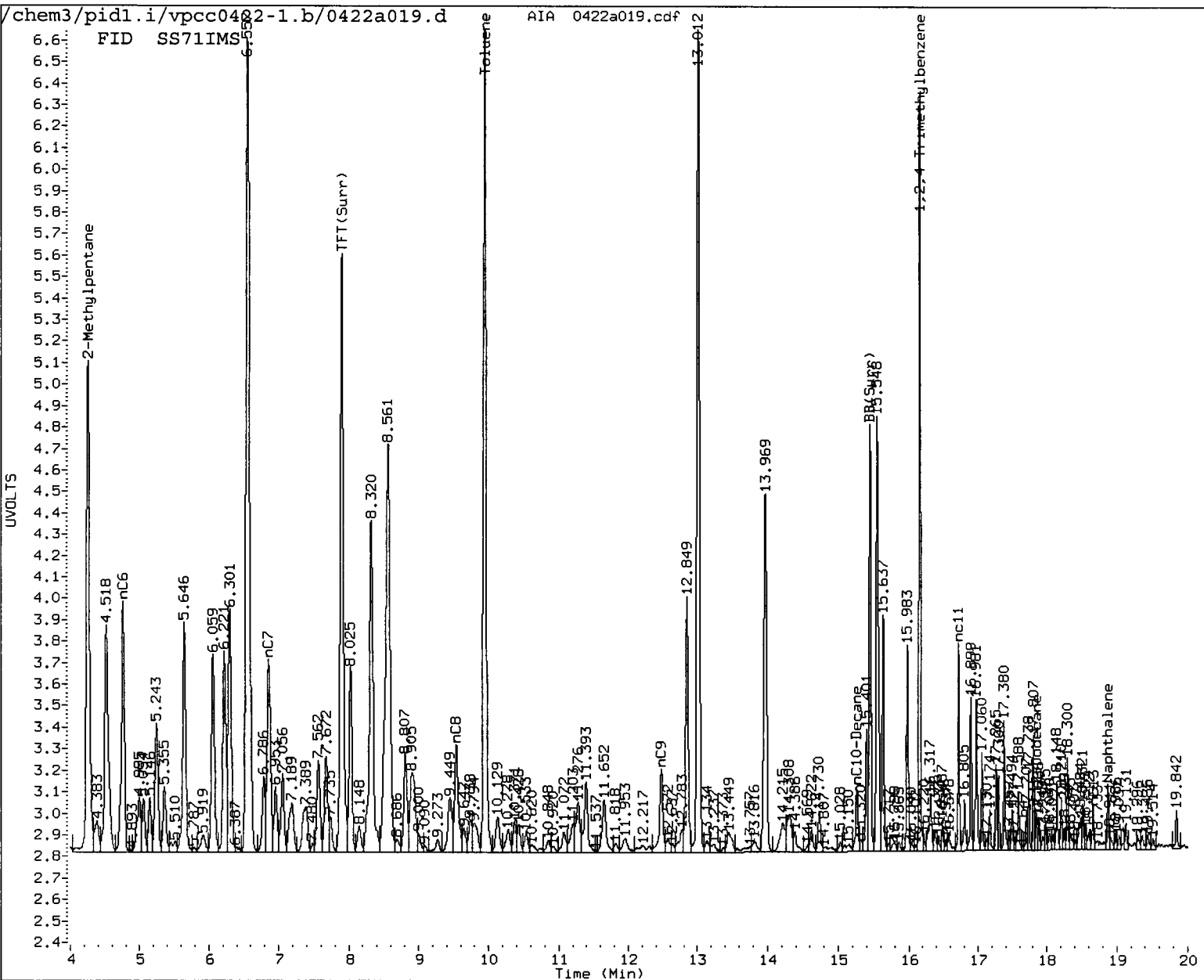
Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0422-2.b/0422a019.d/0422a019.cdf



MH  
4/25/11



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other \_\_\_\_\_

Analyst: MH Date: 4/25/11

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a020.d      ARI ID: SS71IMSD  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a020.d      Client ID: LL-SB4-2-4-0419 MSD  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 15:31  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec  | Compound  |
|--------|-------|--------|-------|-------|-----------|
| 7.900  | 0.001 | 2886   | 44163 | 102.0 | TFT(Surr) |
| 15.449 | 0.003 | 2042   | 17902 | 97.9  | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount  |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 361982      | 0.966 M |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 746328      | 0.999 M |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 602786      | 0.998 M |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 385828      | 0.956 M |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.899  | 0.002 | 6443     | 98.9 | TFT(Surr) |
| 15.449 | 0.003 | 13373    | 99.2 | BB(Surr)  |

SW8021 (PID)

| RT     | Shift  | Response | Amount | Compound     |
|--------|--------|----------|--------|--------------|
| 7.055  | 0.005  | 1277     | 2.91   | Benzene      |
| 9.944  | 0.002  | 14449    | 36.95  | Toluene      |
| 12.849 | 0.002  | 3626     | 10.62  | Ethylbenzene |
| 13.013 | 0.005  | 14429    | 39.29  | M/P-Xylene   |
| 13.969 | 0.004  | 5146     | 17.97  | O-Xylene     |
| 4.517  | -0.009 | 277      | 1.63   | MTBE         |

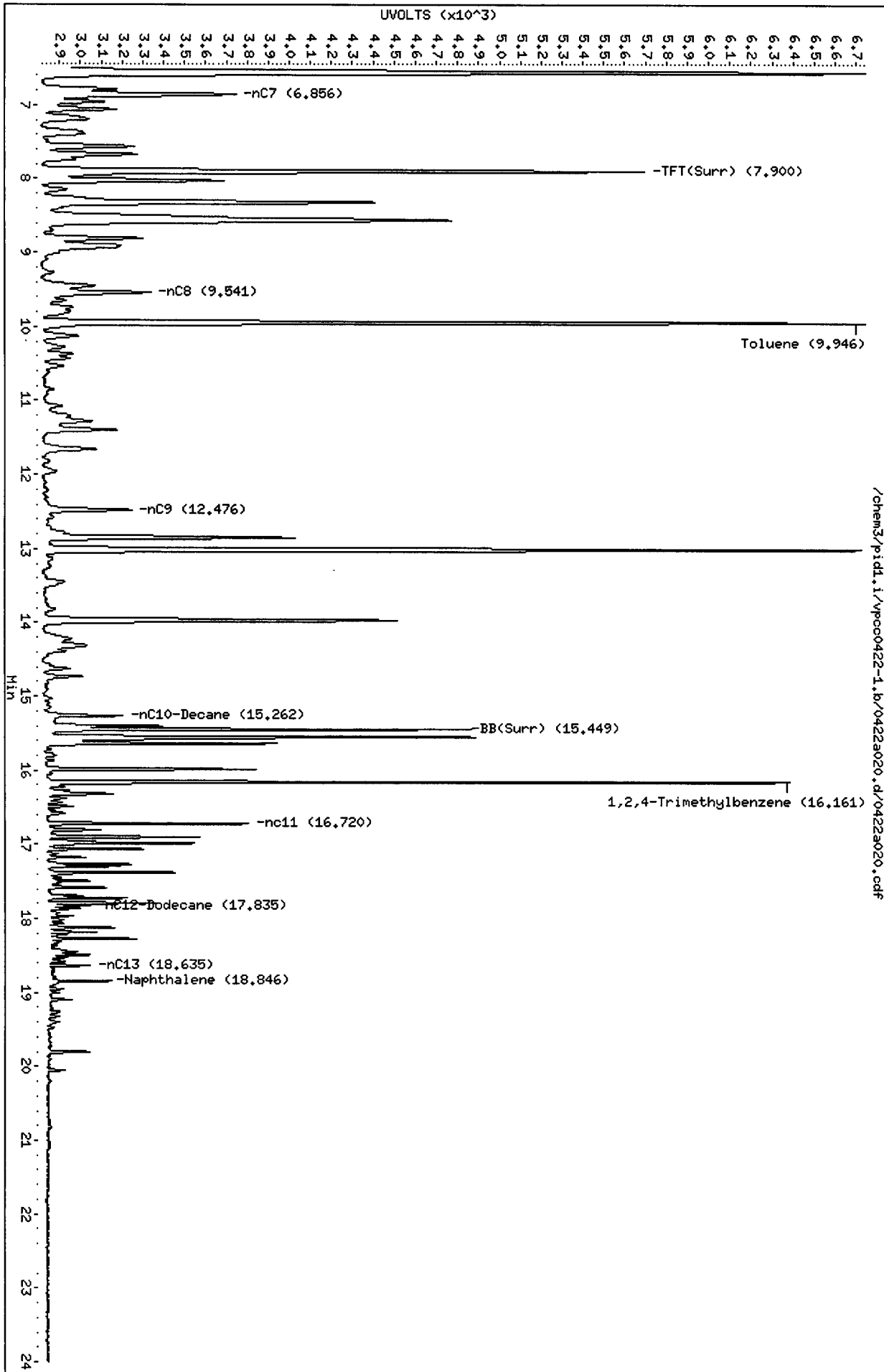
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated



Data File: /chem3/pid1.i/vpcc0422-1.b/0422a020.d  
Date: 22-APR-2011 15:31  
Client ID: LL-SB4-2-4-0419 MSD  
Sample Info: SS71IHSD

Column phase: RTX 502-2 FID

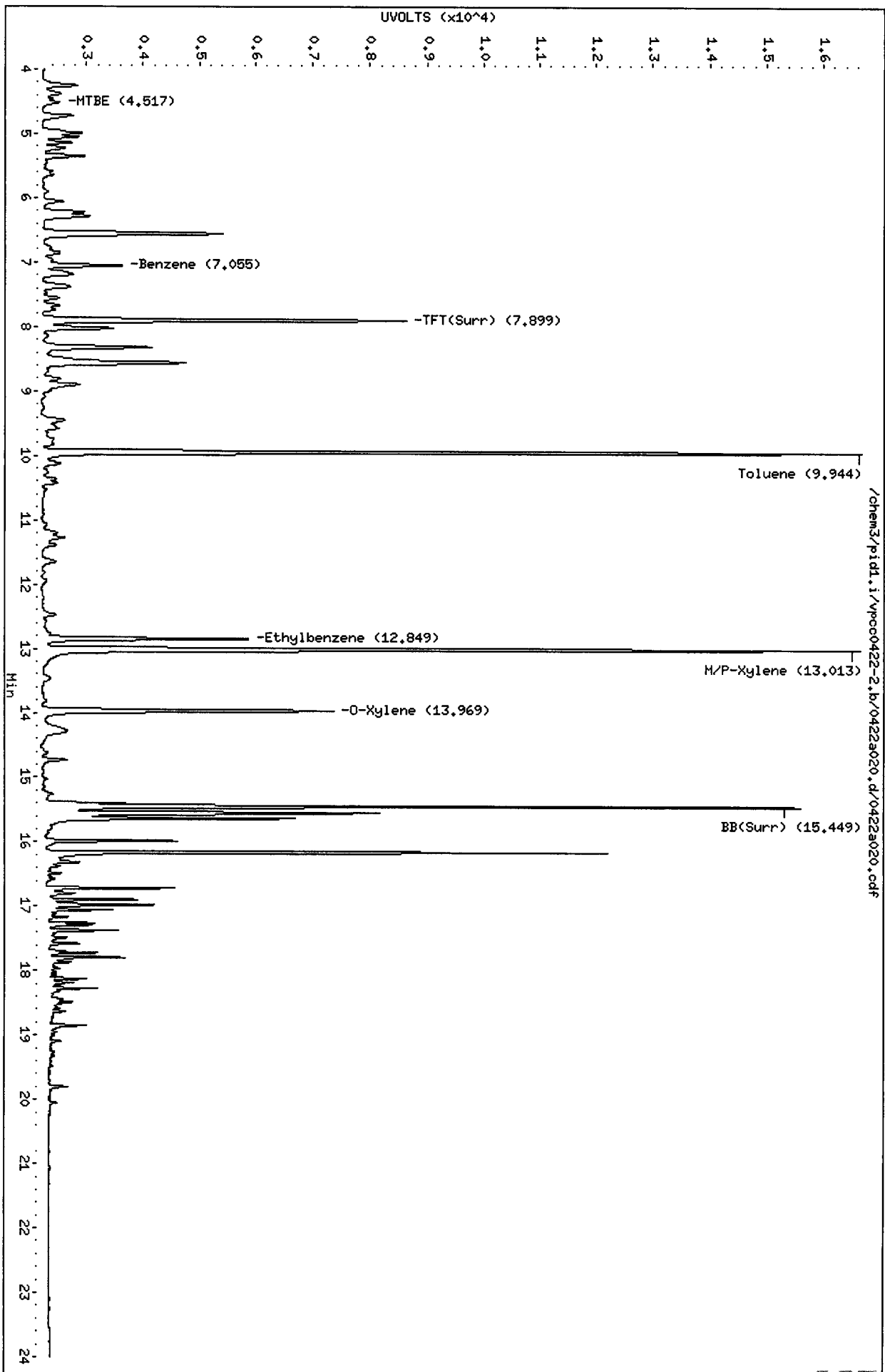
Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0422-2.b/0422a020.d  
Date : 22-APR-2011 15:31  
Client ID: LL-SB4-2-4-0419 MSD  
Sample Info: SS711MSD

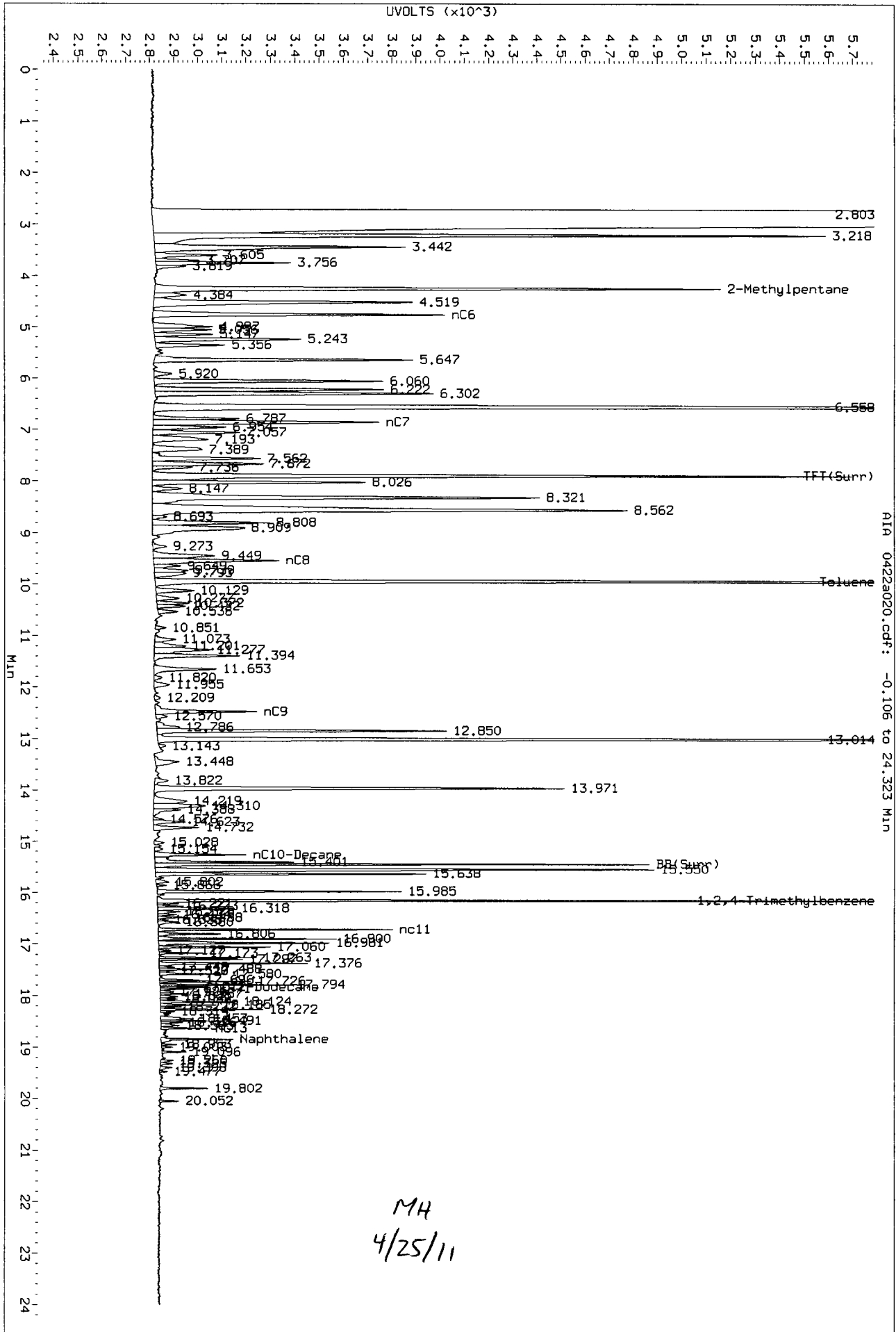
Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18

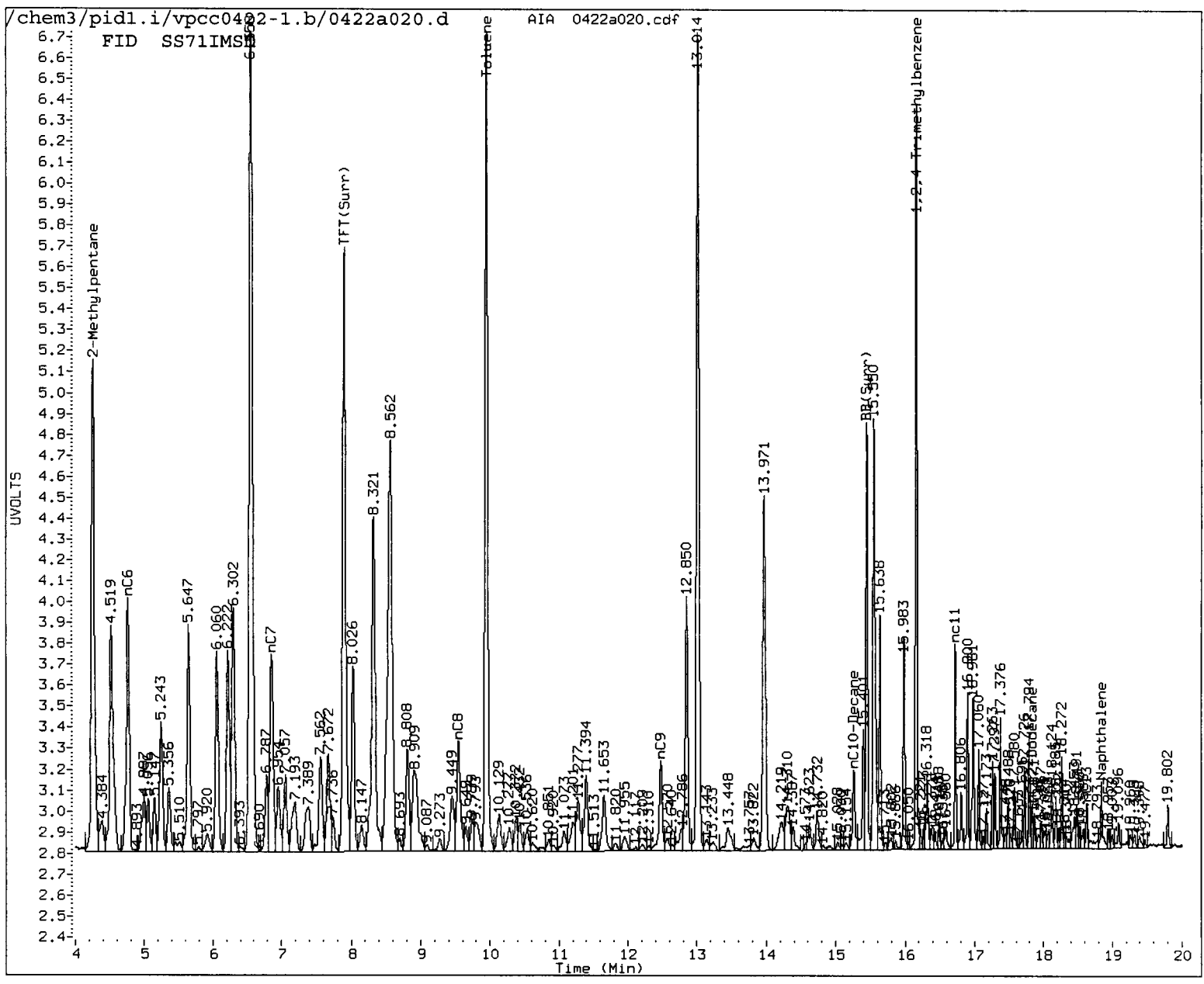


07 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a020.d/0422a020.cdf  
Injection Date: 22-APR-2011 15:31  
Instrument: pid1.i  
Client Sample ID: LL-SB4-2-4-0419 MSD



MH  
4/25/11



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other \_\_\_\_\_

Analyst: MH Date: 4/25/11

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a021.d      ARI ID: SS71J  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a021.d      Client ID: LL-SB3-0-0.5-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 16:00  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

=====

FID Surrogates

| RT     | Shift | Height | Area  | %Rec  | Compound  |
|--------|-------|--------|-------|-------|-----------|
| --     | ----- | -----  | ----- | ----- | -----     |
| 7.900  | 0.002 | 2700   | 36401 | 95.4  | TFT(Surr) |
| 15.449 | 0.002 | 1993   | 16621 | 95.6  | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

-----

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| -----                           | -----  | -----       | -----  |
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 5037        | 0.013  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 3929        | 0.005  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 2493        | 0.004  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 5637        | 0.014  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

=====

PID Surrogates

| RT     | Shift | Response | %Rec  | Compound  |
|--------|-------|----------|-------|-----------|
| --     | ----- | -----    | ----- | -----     |
| 7.898  | 0.002 | 6073     | 93.3  | TFT(Surr) |
| 15.448 | 0.002 | 12892    | 95.6  | BB(Surr)  |

SW8021 (PID)

-----

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| -- | ----- | -----    | -----  | -----        |
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

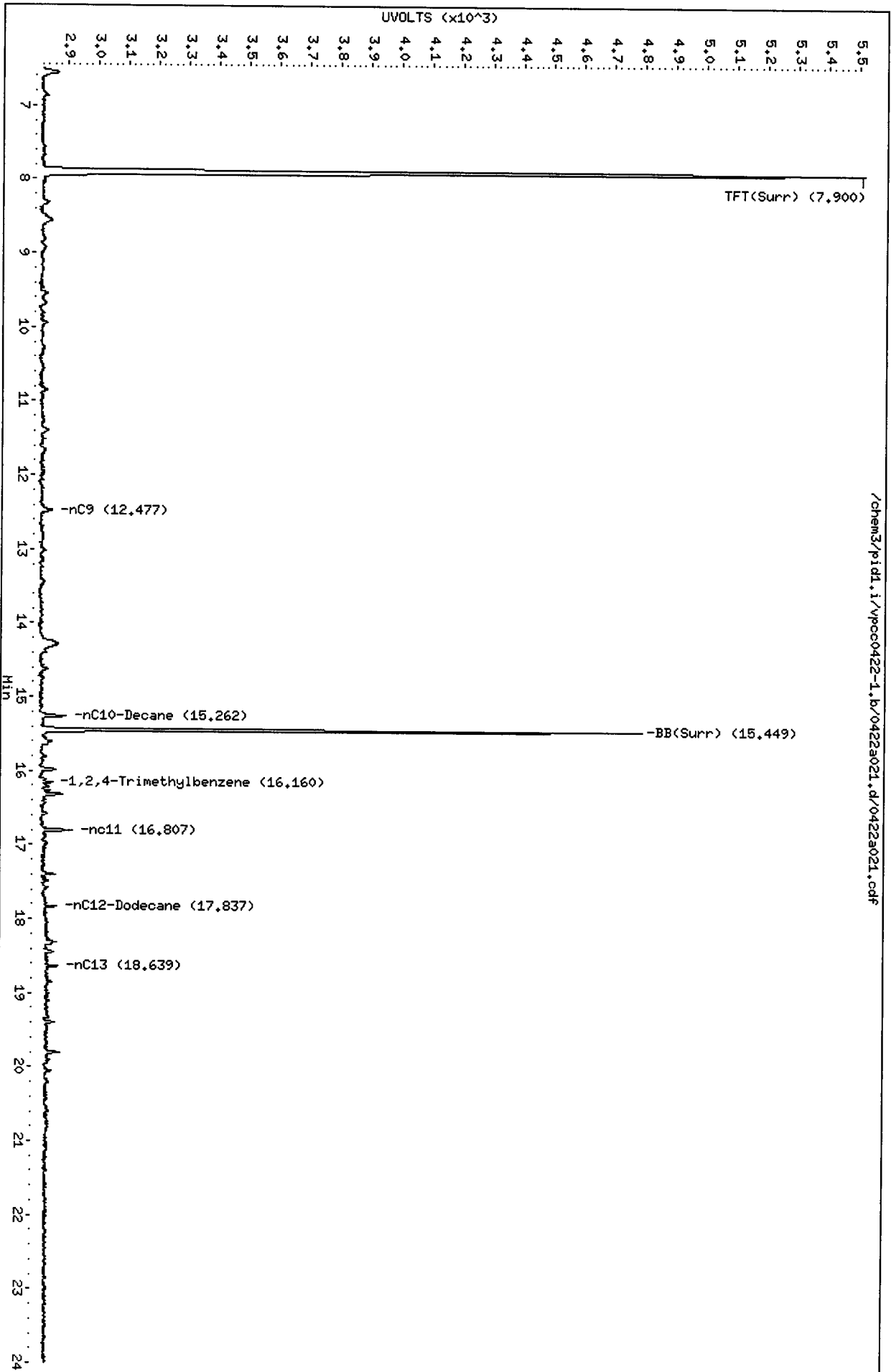
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a021.d  
Date: 22-APR-2011 16:00  
Client ID: LL-SB3-0-0.5-041911  
Sample Info: SS71J

Column phase: RTX 502-2 FID

Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a021.d/0422a021.cdf



1518 : 155

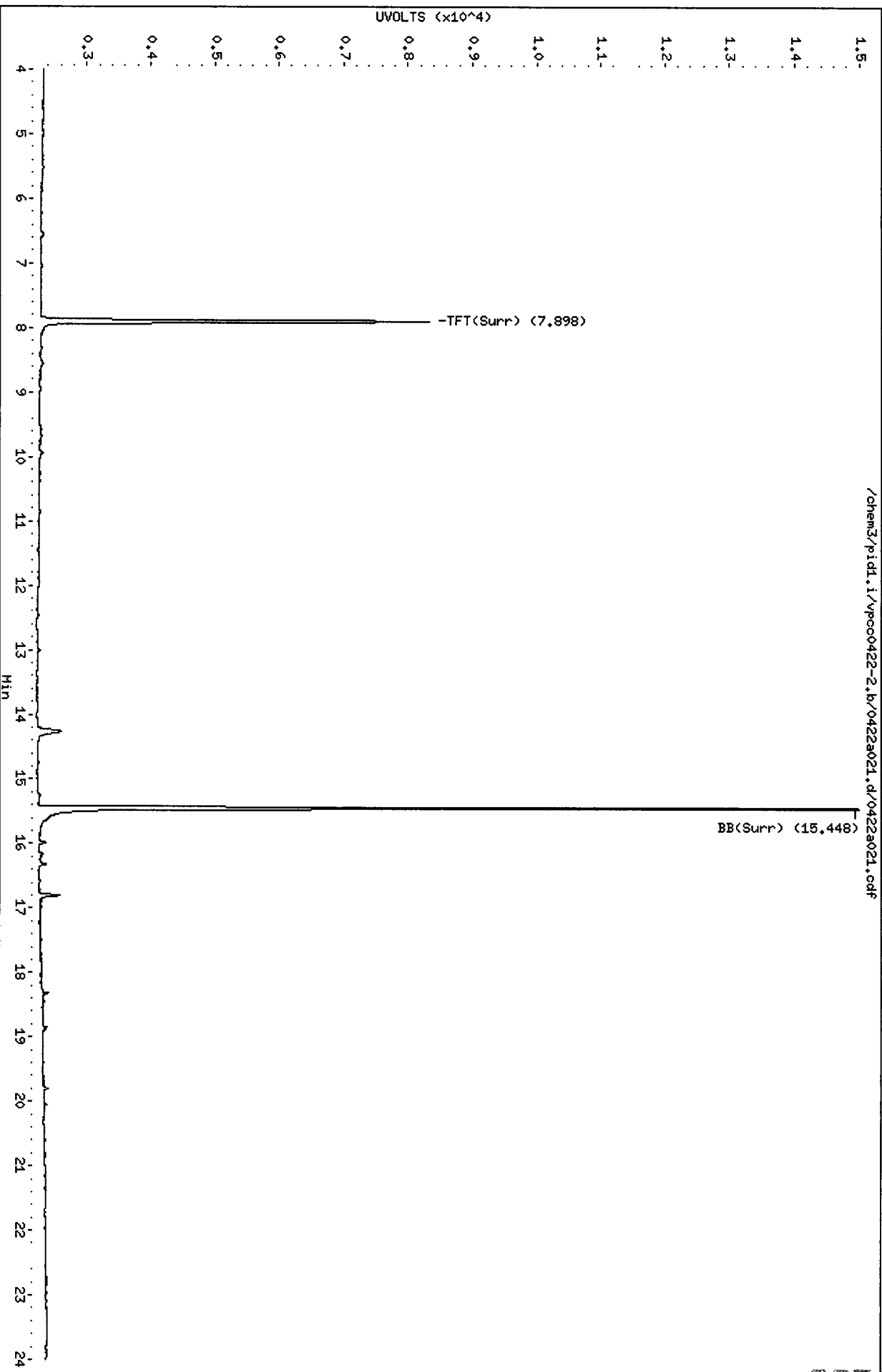
Data File: /chem3/pid1.i/vpcc0422-2.b/0422a021.d  
Date : 22-APR-2011 16:00  
Client ID: LL-SB3-0-0.5-041911  
Sample Info: SS71J

Page 1

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-2.b/0422a021.d/0422a021.cdf



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MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a022.d      ARI ID: SS71K  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a022.d      Client ID: LL-SB3-1.5-2-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 16:29  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.899  | 0.001 | 2686   | 36412 | 94.9 | TFT(Surr) |
| 15.449 | 0.002 | 2038   | 16676 | 97.7 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 2573        | 0.007  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 1392        | 0.002  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 1391        | 0.002  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 3076        | 0.008  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.897  | 0.001 | 6094     | 93.6 | TFT(Surr) |
| 15.448 | 0.002 | 13189    | 97.8 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

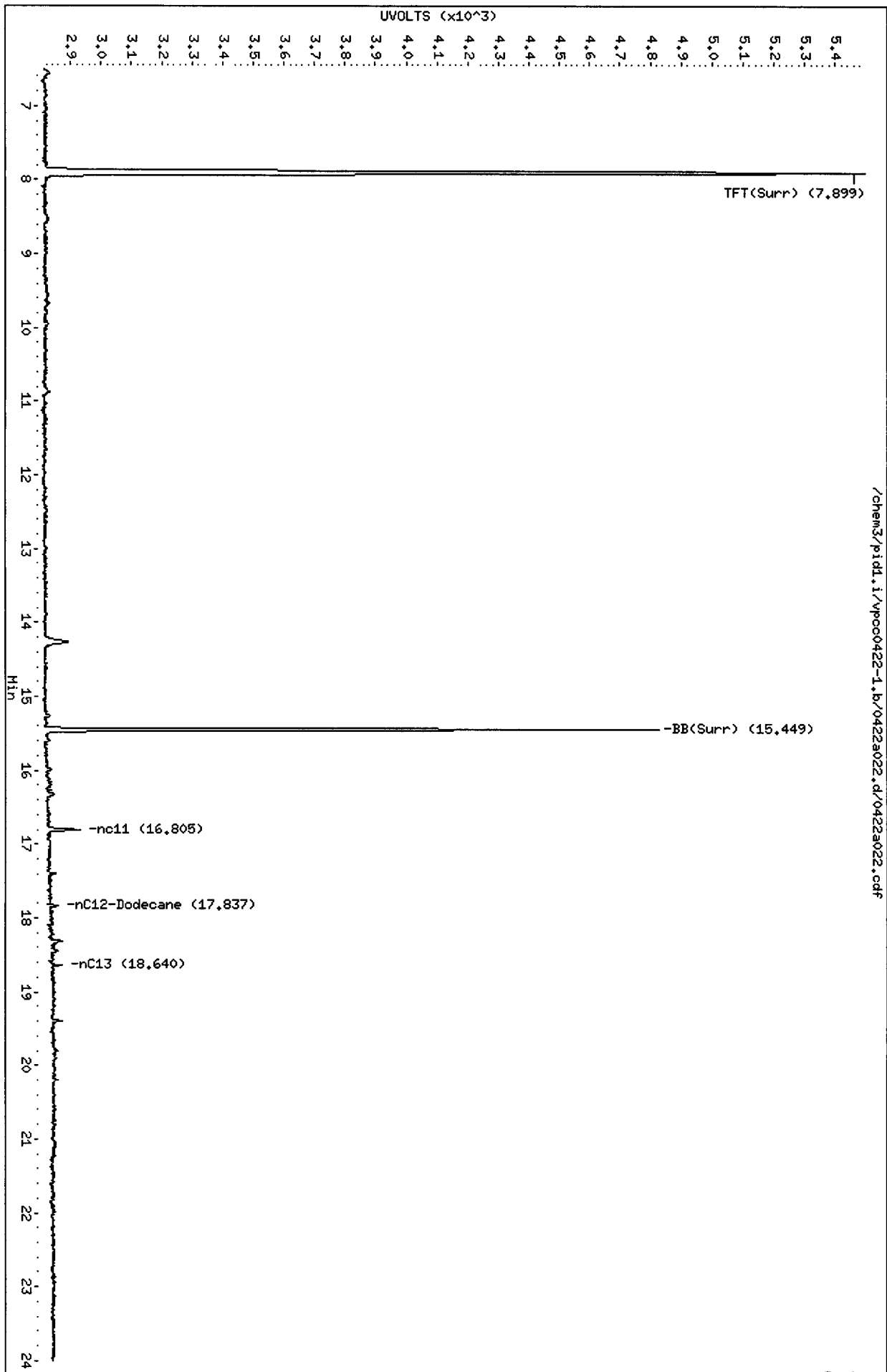


Data File: /chem3/pid1.i/vpcc0422-1.b/0422a022.d  
Date: 22-APR-2011 16:29  
Client ID: LL-SB3-1.5-2-041911  
Sample Info: SS71K

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a022.d/0422a022.cdf

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



0071 0115 008

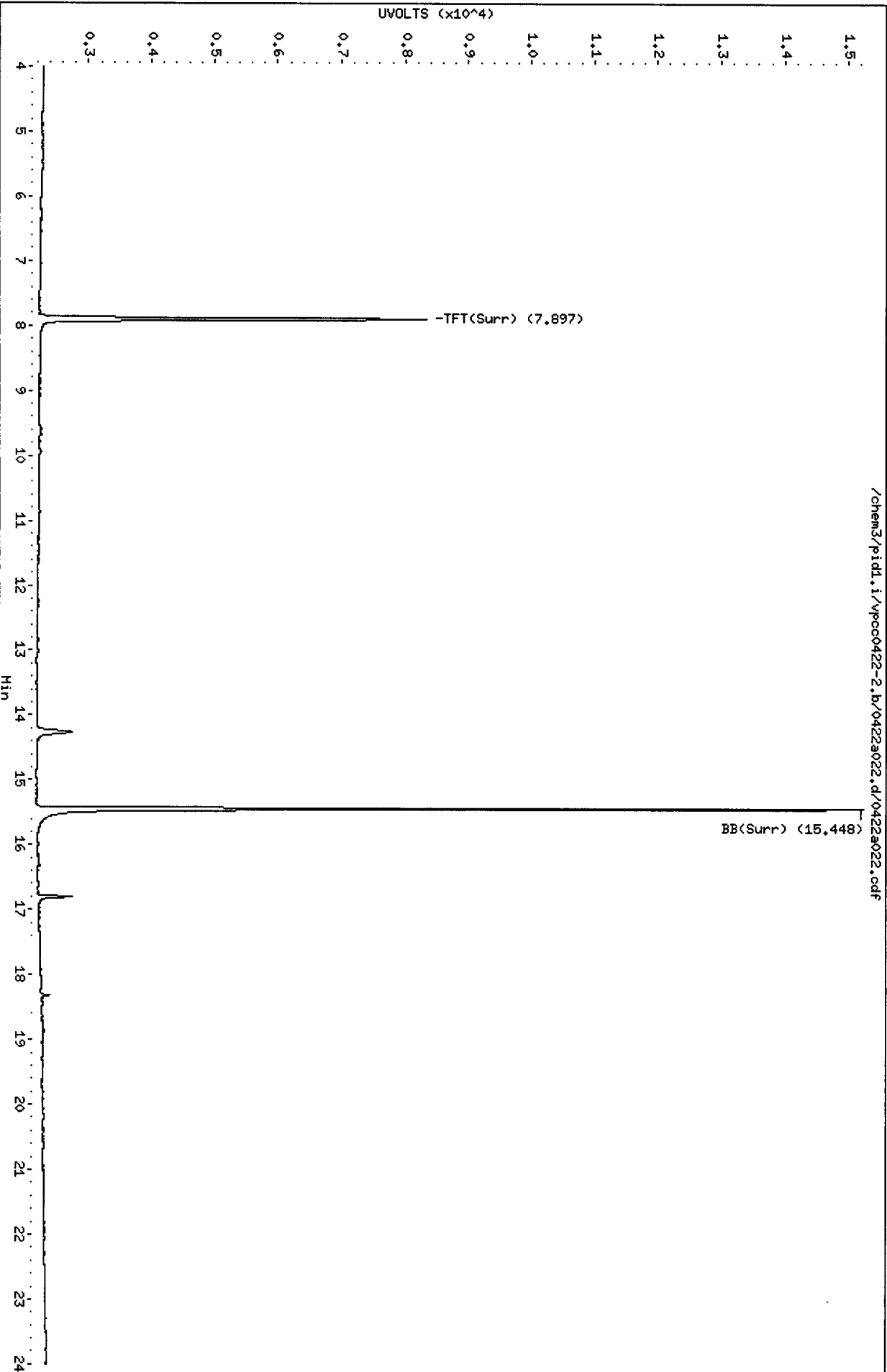
Data File: /chem3/pid1.i/vpcc0422-2.b/0422a022.d  
Date: 22-APR-2011 16:29  
Client ID: LL-SB3-1.5-2-041911  
Sample Info: SS71K

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0422-2.b/0422a022.d/0422a022.cdf

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18

Page 1



001515 : 1152

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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a023.d      ARI ID: SS71L  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a023.d      Client ID: LL-SB3-2-4-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 16:58  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area   | %Rec | Compound  |
|--------|-------|--------|--------|------|-----------|
| 7.900  | 0.001 | 2622   | 374773 | 92.7 | TFT(Surr) |
| 15.450 | 0.004 | 1989   | 16464  | 95.4 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 3667        | 0.010  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 2330        | 0.003  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 2330        | 0.004  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 4158        | 0.010  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.898  | 0.002 | 5891     | 90.5 | TFT(Surr) |
| 15.449 | 0.003 | 12840    | 95.3 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

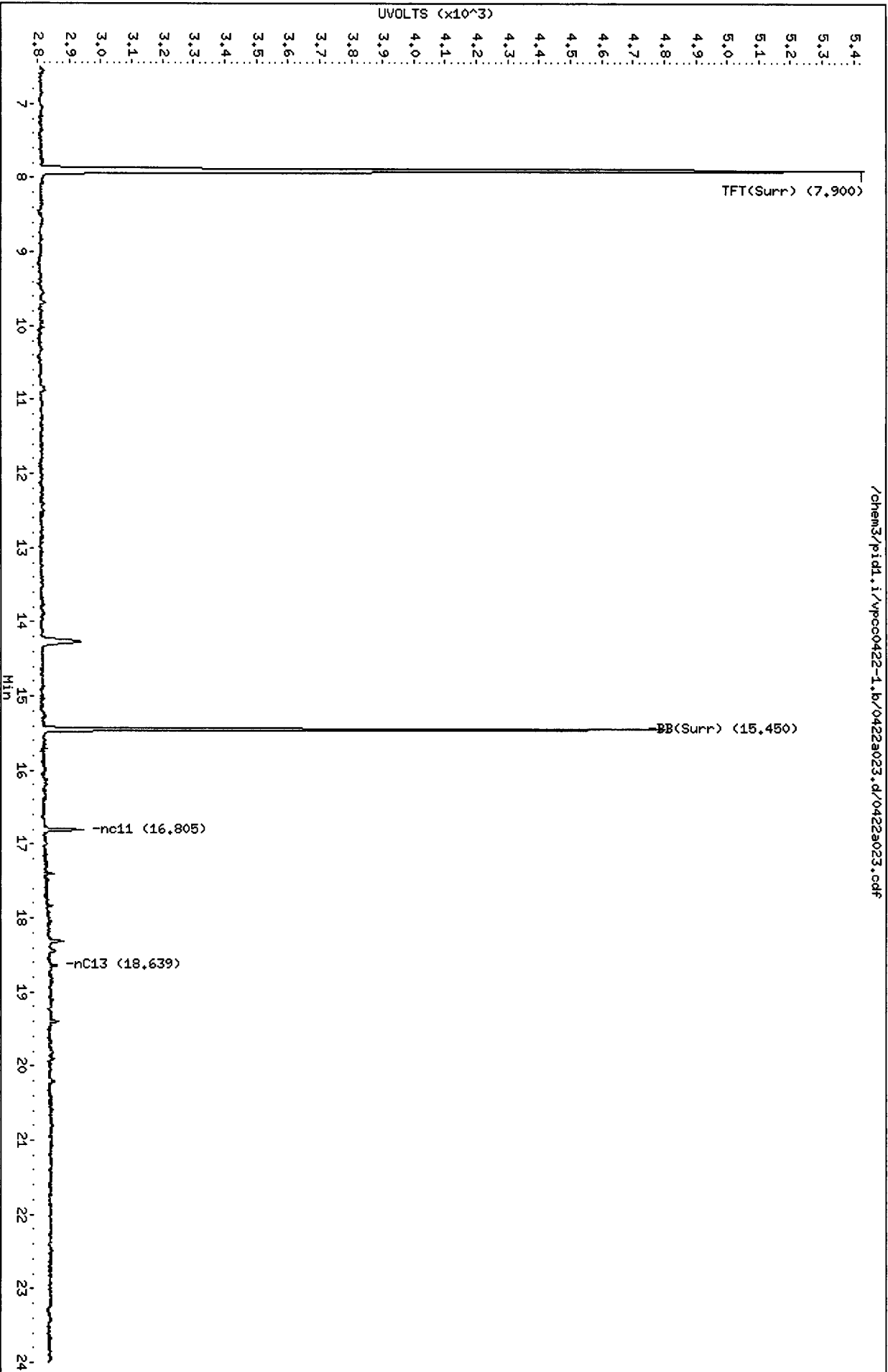
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a023.d  
Date: 22-APR-2011 16:58  
Client ID: LL-SB3-2-4-041911  
Sample Info: SS71L

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a023.d/0422a023.cdf

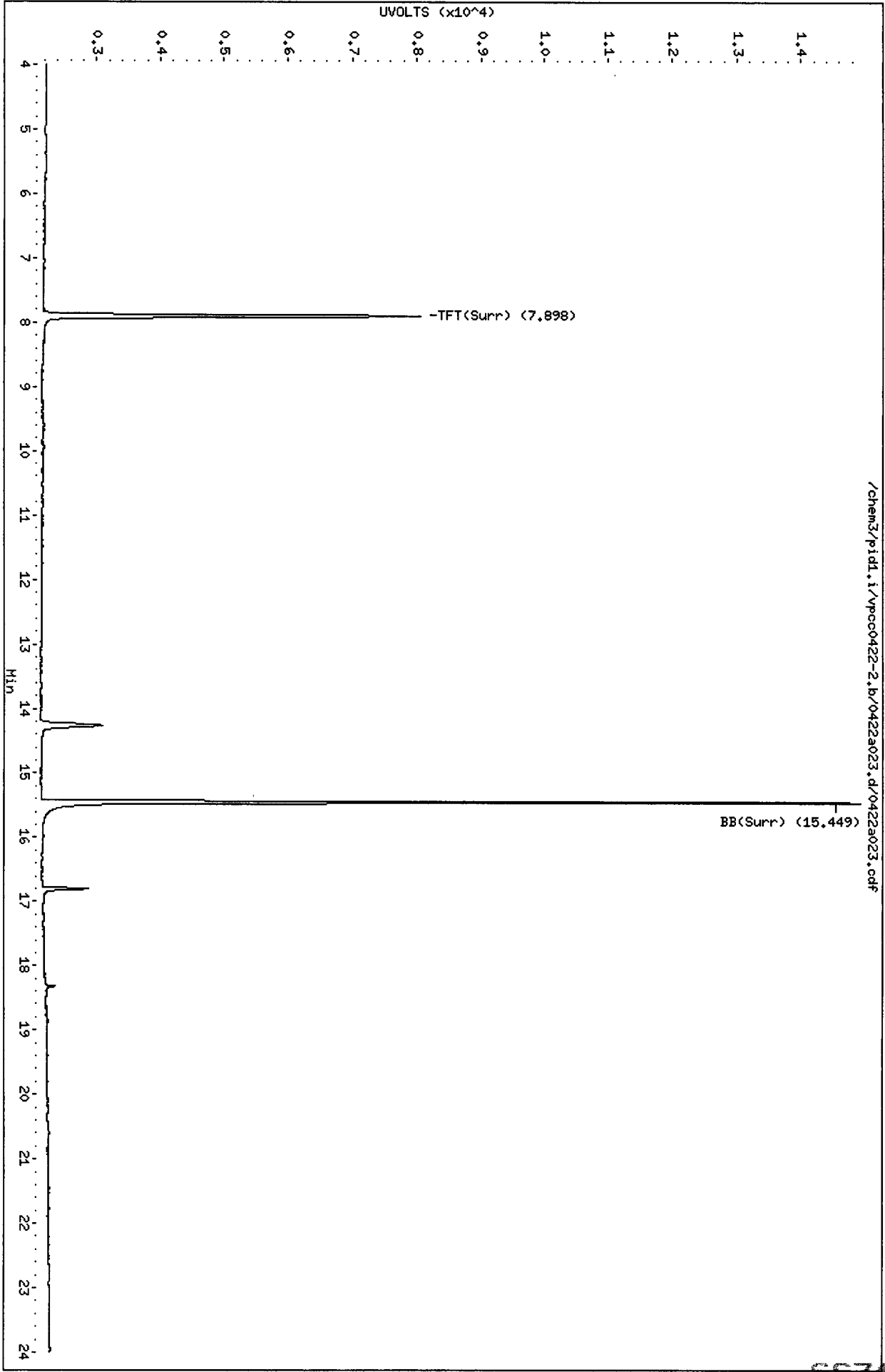
Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0422-2.b/0422a023.d  
Date: 22-APR-2011 16:58  
Client ID: LL-SB3-2-4-041911  
Sample Info: SS71L

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: NH  
Column diameter: 0.18



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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a024.d      ARI ID: SS71M  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a024.d      Client ID: LL-SB2-0-0.5-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 17:27  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.901  | 0.002 | 2681   | 36154 | 94.8 | TFT(Surr) |
| 15.450 | 0.004 | 1995   | 16694 | 95.7 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 35157       | 0.094  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 25518       | 0.034  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 25518       | 0.042  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 36459       | 0.090  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.899  | 0.002 | 5985     | 91.9 | TFT(Surr) |
| 15.450 | 0.004 | 12909    | 95.8 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a024.d  
Date: 22-APR-2011 17:27  
Client ID: LL-SB2-0-0.5-041911  
Sample Info: SS71M

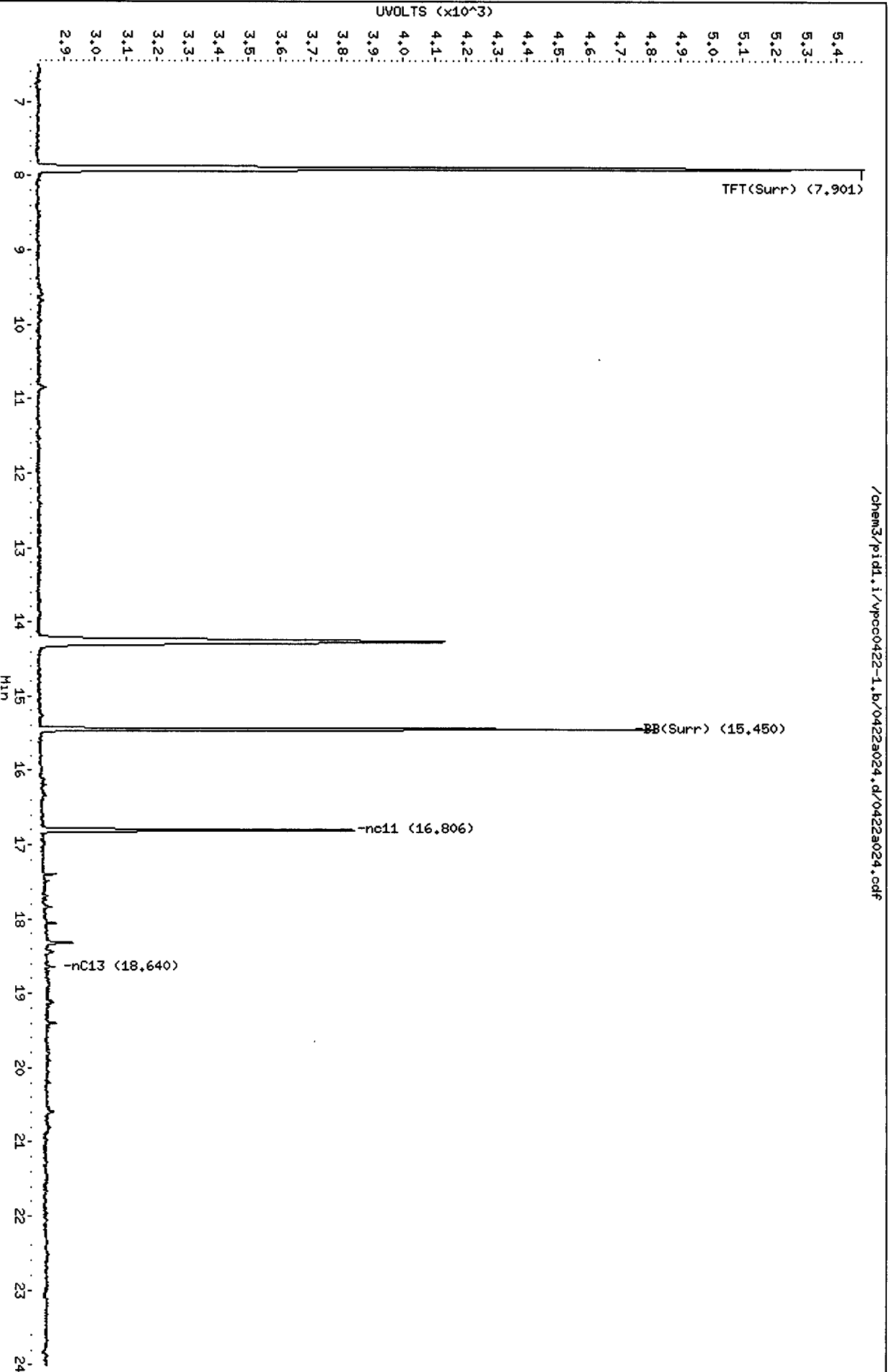
Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a024.d/0422a024.cdf



5871 5155

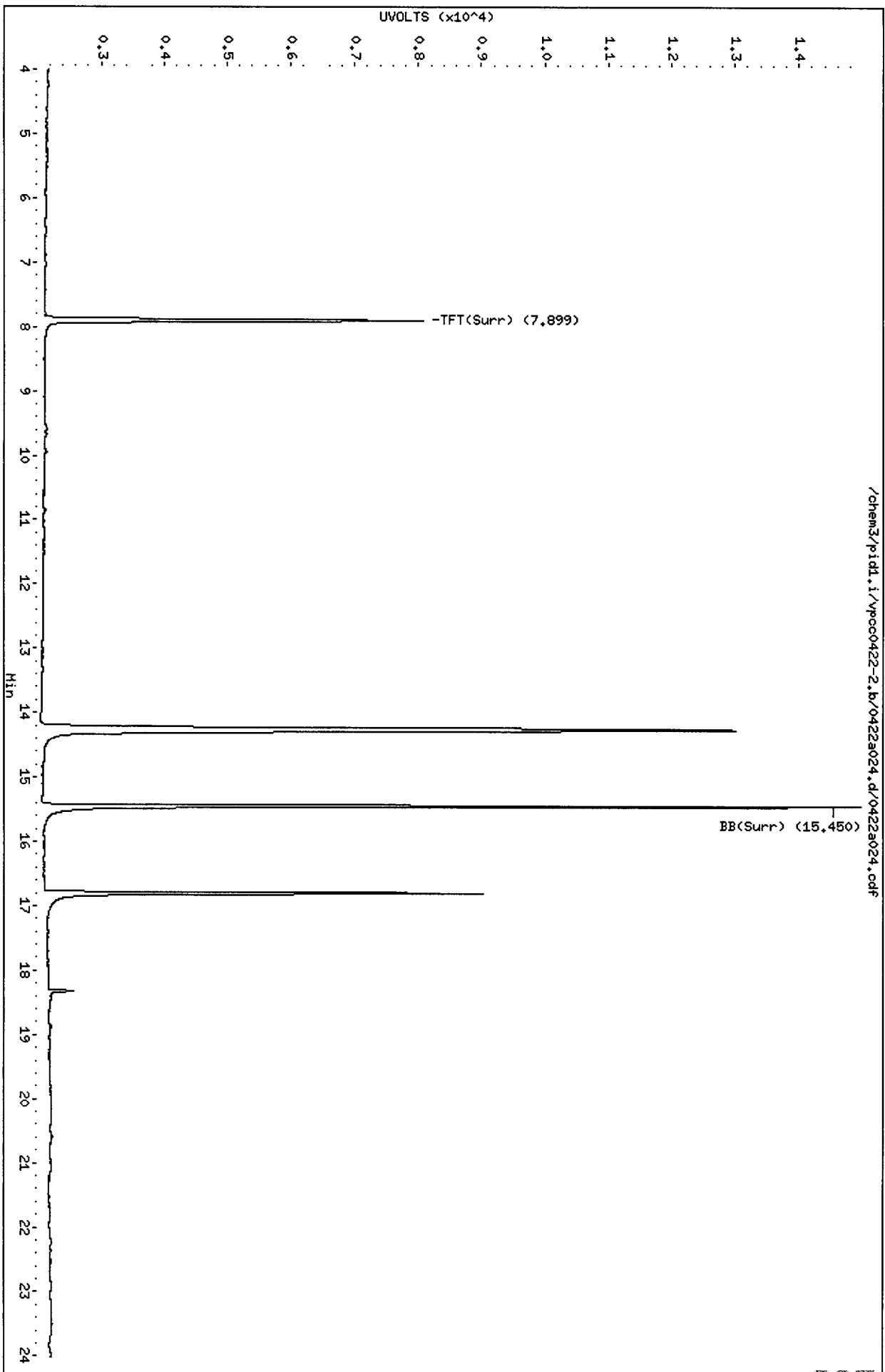
Data File: /chem3/pid1.i/vpcc0422-2.b/0422a024.d  
Date : 22-APR-2011 17:27  
Client ID: LL-SB2-0-0.5-041911  
Sample Info: SS71H

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



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Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a025.d      ARI ID: SS71N  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a025.d      Client ID: LL-SB2-1.5-2-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 17:57  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| --     | ----- | -----  | ----  | ---- | -----     |
| 7.900  | 0.002 | 2680   | 35925 | 94.7 | TFT(Surr) |
| 15.450 | 0.004 | 1982   | 16436 | 95.0 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 74181       | 0.198  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 53363       | 0.071  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 53363       | 0.088  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 75111       | 0.186  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| --     | ----- | -----    | ---- | -----     |
| 7.898  | 0.002 | 5942     | 91.2 | TFT(Surr) |
| 15.450 | 0.004 | 12864    | 95.4 | BB(Surr)  |

SW8021 (PID)

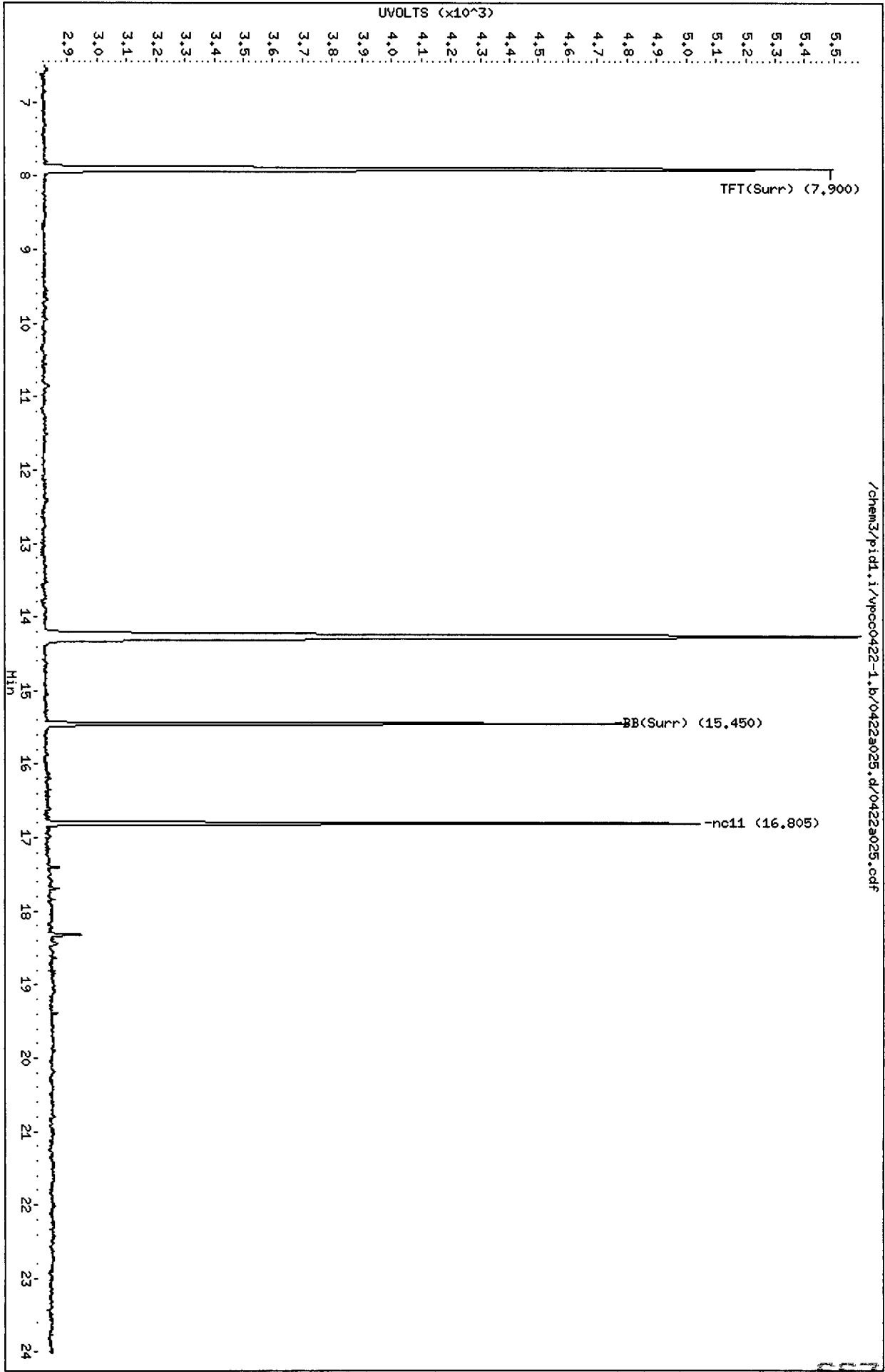
| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| -- | ----- | -----    | -----  | -----        |
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a025.d  
Date: 22-APR-2011 17:57  
Client ID: LL-SB2-1.5-2-041911  
Sample Info: SS71N

Column phase: RTX 502-2 FID

Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18

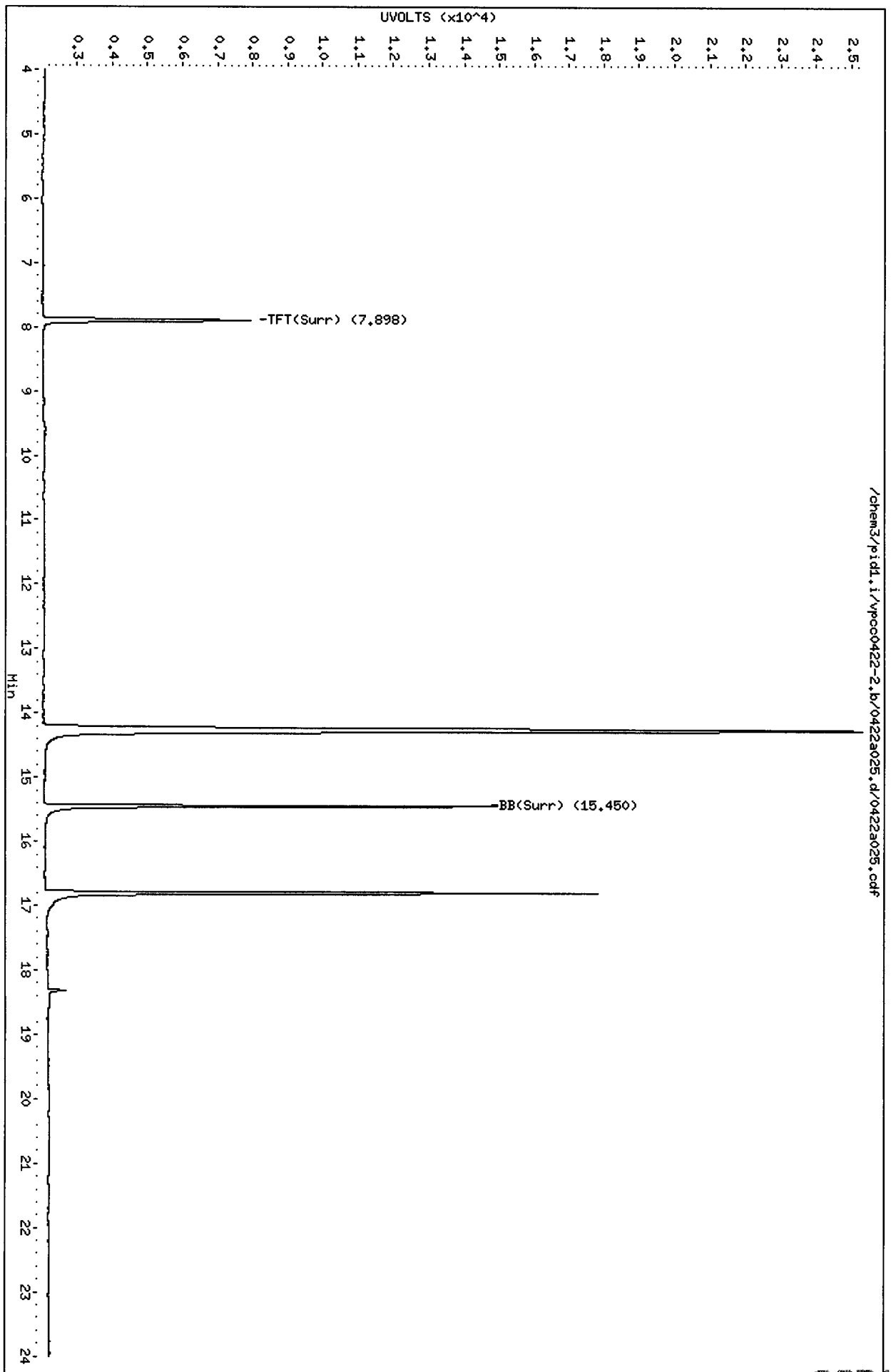


17:55 : 0100

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a025.d  
Date : 22-APR-2011 17:57  
Client ID: LL-SB2-1.5-2-041911  
Sample Info: SS71N

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a027.d      ARI ID: BCAL 3  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a027.d      Client ID:  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m            Injection Date: 22-APR-2011 18:55  
Instrument: pid1.i                                        Matrix: WATER  
Gas Ical Date: 16-APRIL-2011                         Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| --     | ----- | -----  | ----  | ---- | -----     |
| 7.902  | 0.003 | 2634   | 36024 | 93.1 | TFT(Surr) |
| 15.450 | 0.004 | 2028   | 16821 | 97.2 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 235059      | 0.627  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 232624      | 0.311  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 215377      | 0.357  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 235740      | 0.584  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| --     | ----- | -----    | ---- | -----     |
| 7.899  | 0.003 | 5835     | 89.6 | TFT(Surr) |
| 15.450 | 0.004 | 12973    | 96.2 | BB(Surr)  |

SW8021 (PID)

| RT     | Shift  | Response | Amount | Compound     |
|--------|--------|----------|--------|--------------|
| --     | -----  | -----    | ----   | -----        |
| 7.049  | -0.002 | 10467    | 23.88  | Benzene      |
| 9.946  | 0.004  | 9031     | 23.10  | Toluene      |
| 12.850 | 0.004  | 8077     | 23.65  | Ethylbenzene |
| 13.012 | 0.005  | 17320    | 47.16  | M/P-Xylene   |
| 13.970 | 0.006  | 6981     | 24.38  | O-Xylene     |
| 4.526  | -0.001 | 3845     | 22.65  | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a027.d

Date: 22-APR-2011 18:55

Client ID:

Sample Info: BCAL 3

Page 1

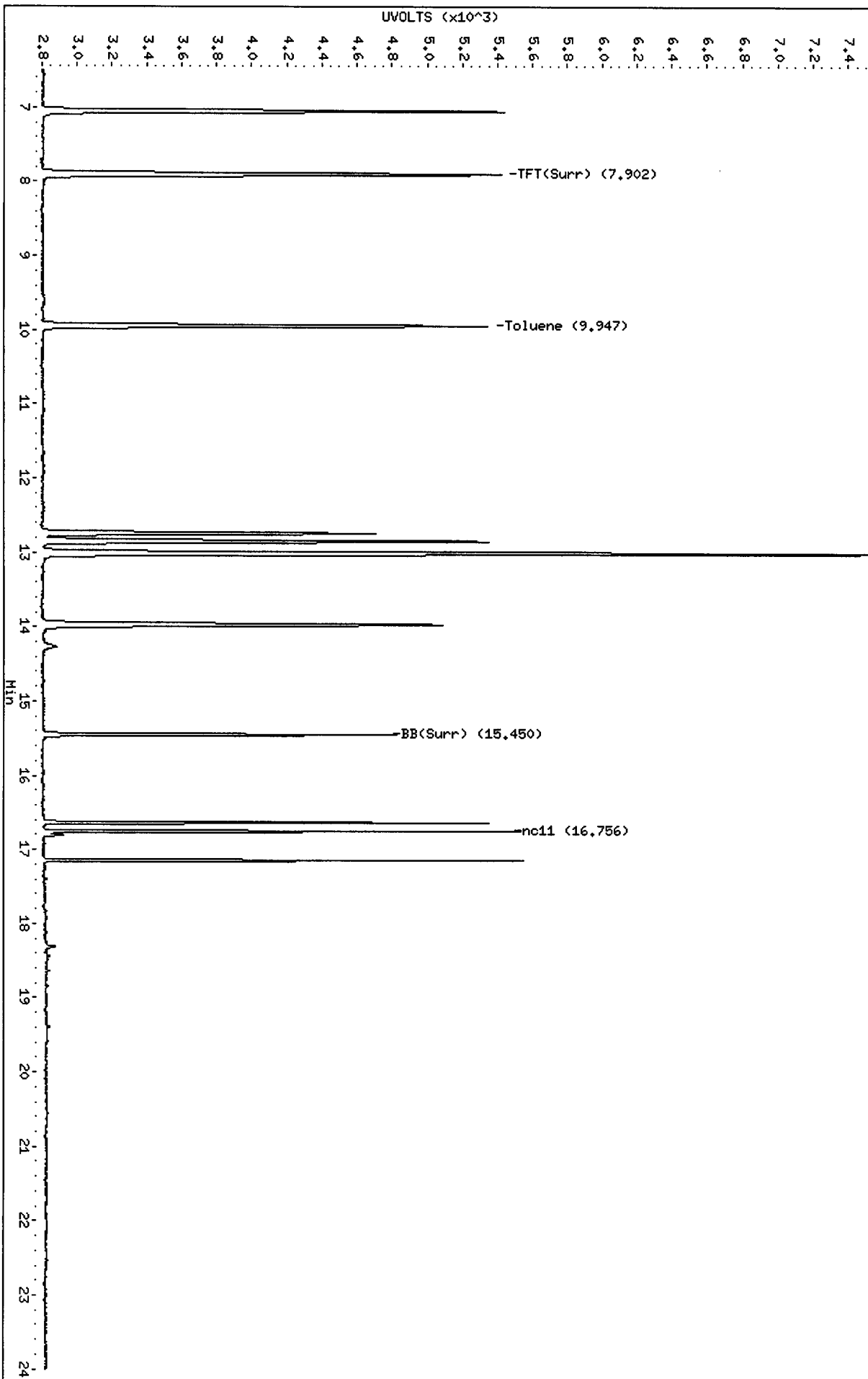
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a027.d/0422a027.cdf



01010 : 105

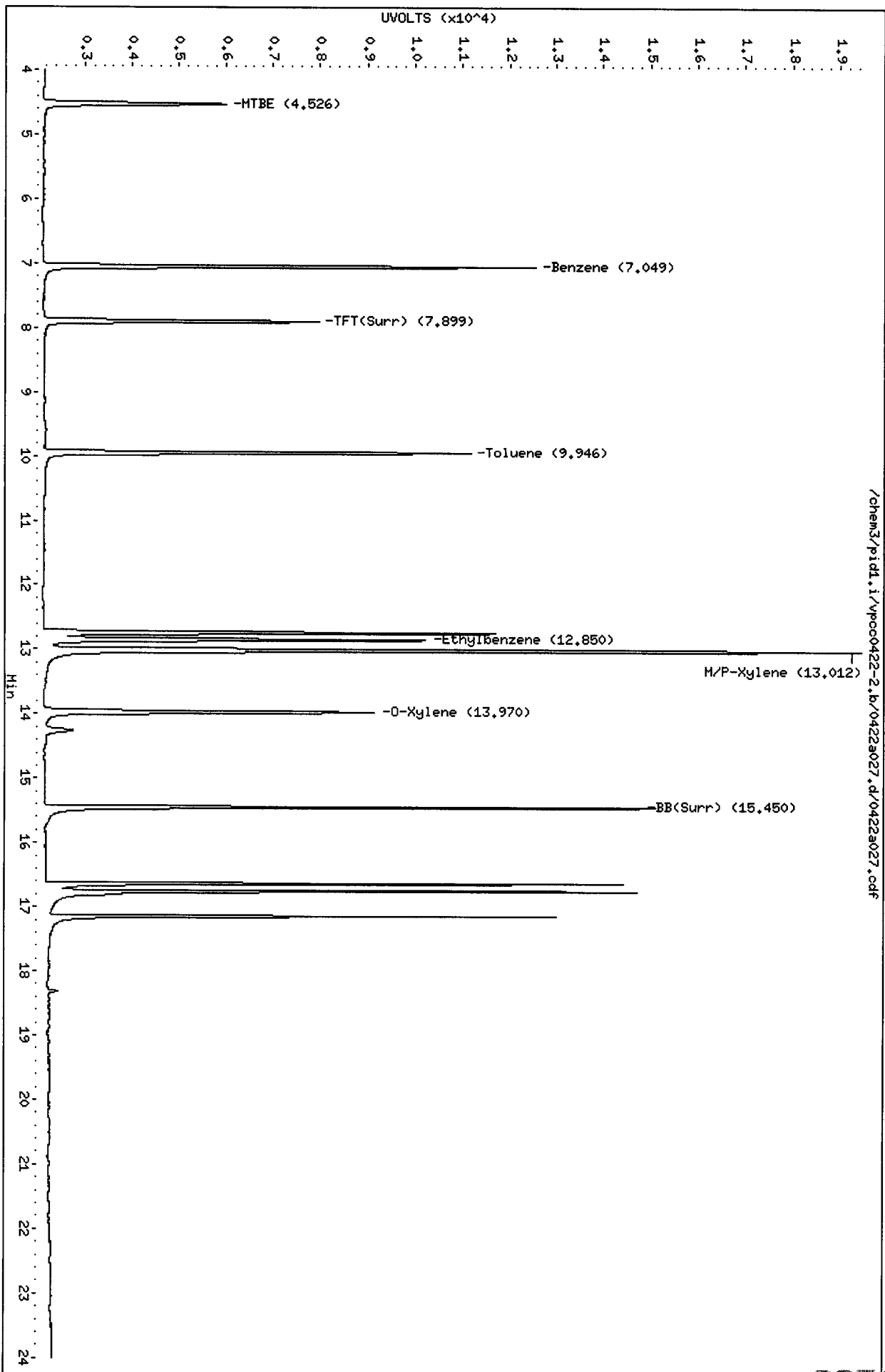
Data File: /chem3/pid1.i/vpcc0422-2.b/0422a027.d  
Date: 22-APR-2011 18:55

Client ID:  
Sample Info: BCL 3

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0422-2.b/0422a027.d/0422a027.cdf

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a028.d      ARI ID: GCAL 3  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a028.d      Client ID:  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 19:24  
Instrument: pid1.i    Matrix: WATER  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec  | Compound  |
|--------|-------|--------|-------|-------|-----------|
| 7.902  | 0.003 | 2887   | 50237 | 102.0 | TFT(Surr) |
| 15.450 | 0.004 | 2076   | 18613 | 99.5  | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount  |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 842482      | 2.248 M |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 1661000     | 2.224 M |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 1332766     | 2.206 M |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 890704      | 2.208 M |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.901  | 0.004 | 6167     | 94.7 | TFT(Surr) |
| 15.450 | 0.004 | 13428    | 99.6 | BB(Surr)  |

SW8021 (PID)

| RT     | Shift | Response | Amount | Compound     |
|--------|-------|----------|--------|--------------|
| 7.060  | 0.009 | 3253     | 7.42   | Benzene      |
| 9.948  | 0.006 | 34458    | 88.12  | Toluene      |
| 12.851 | 0.005 | 8727     | 25.55  | Ethylbenzene |
| 13.016 | 0.009 | 34610    | 94.25  | M/P-Xylene   |
| 13.971 | 0.007 | 12414    | 43.35  | O-Xylene     |
| 4.531  | 0.005 | 593      | 3.49   | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

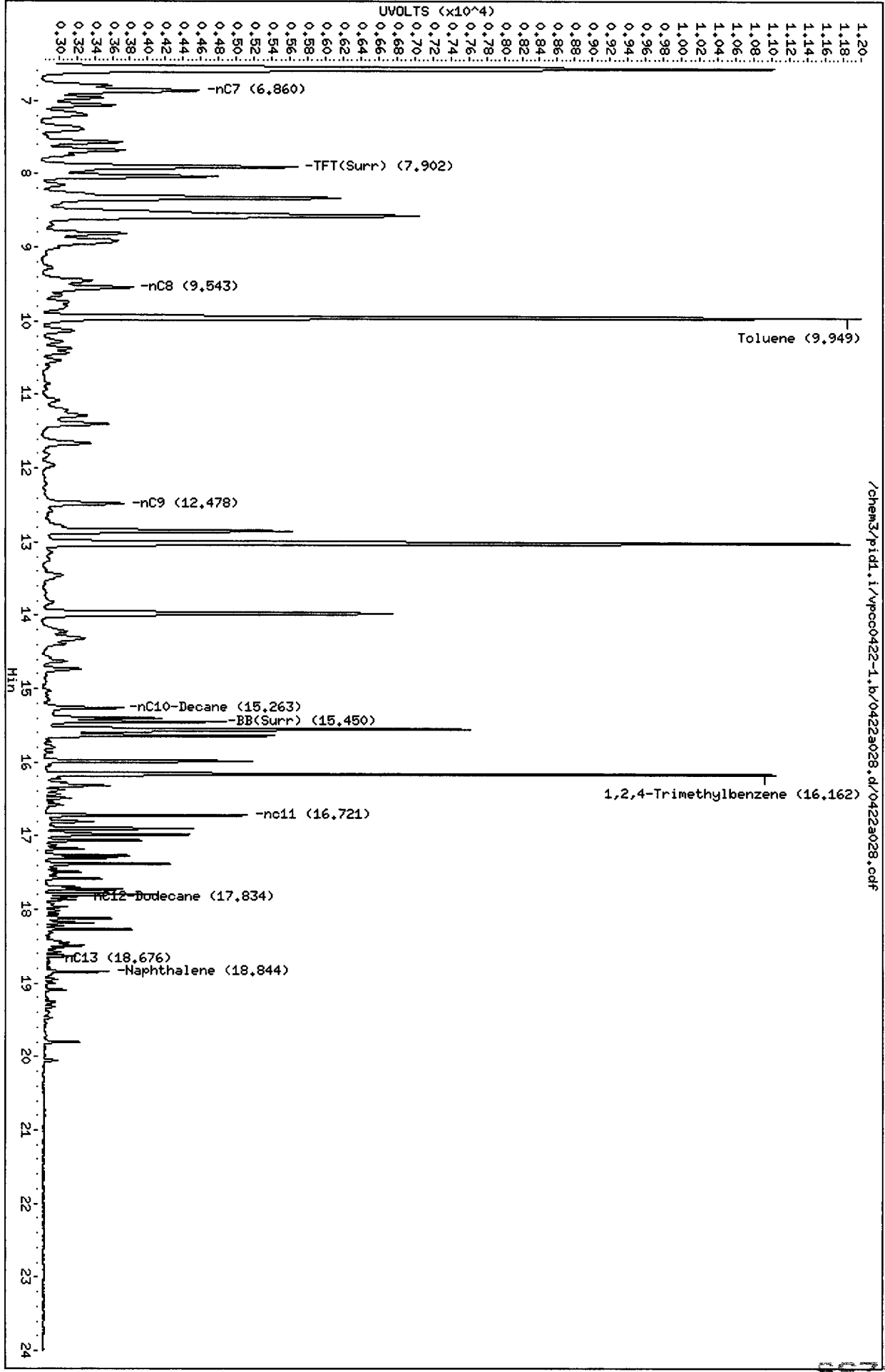
Data File: /chem3/pid1.i/vpcc0422-1.b/0422a028.d  
 Date : 22-APR-2011 19:24  
 Client ID:  
 Sample Info: GCAL 3

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH  
 Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a028.d/0422a028.cdf





Data File: /chem3/pid1.i/vpcc0422-2.b/0422a028.d

Date: 22-APR-2014 19:24

Client ID:

Sample Info: GCRL 3

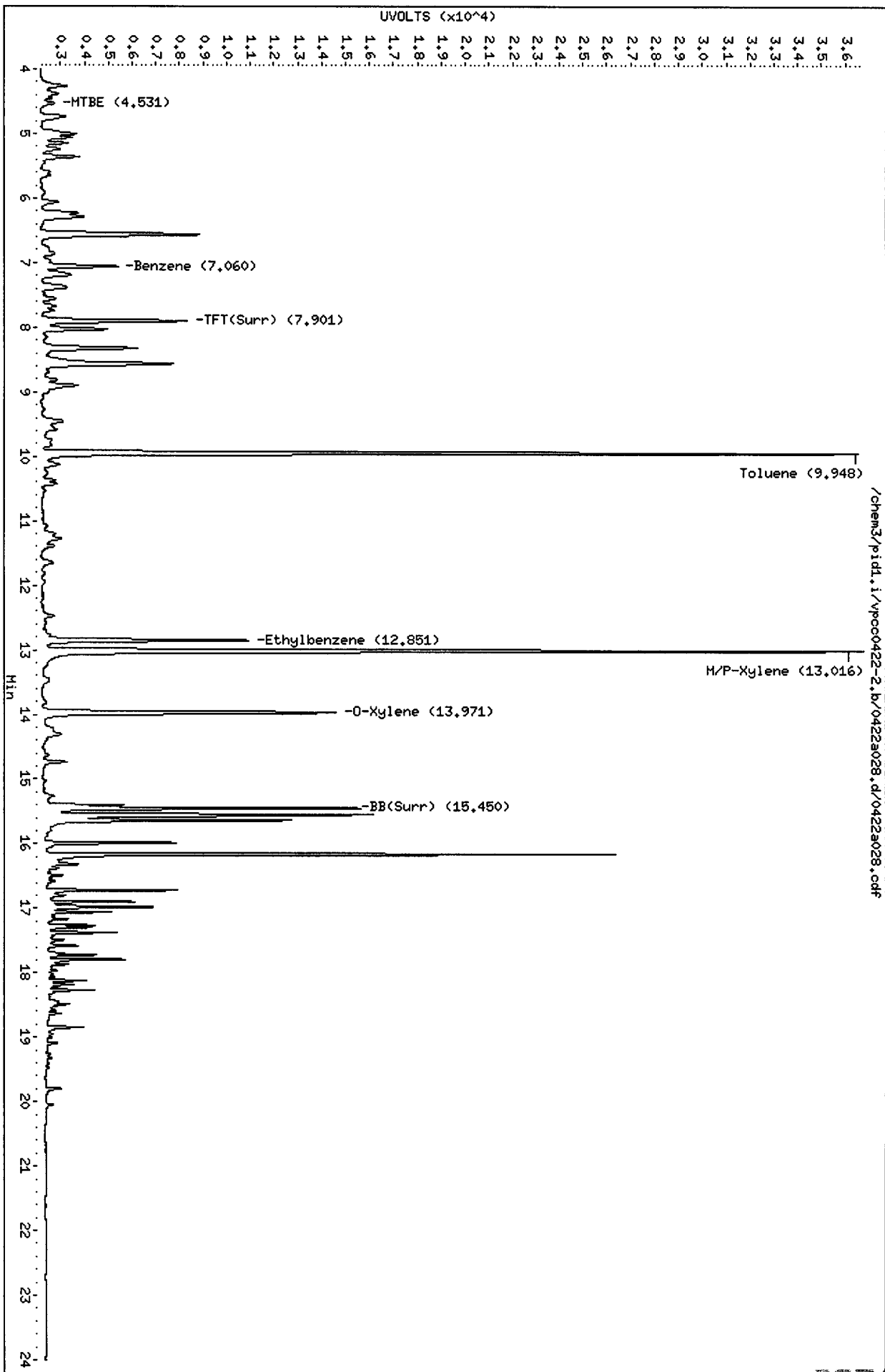
Instrument: pid1.i

Operator: HH

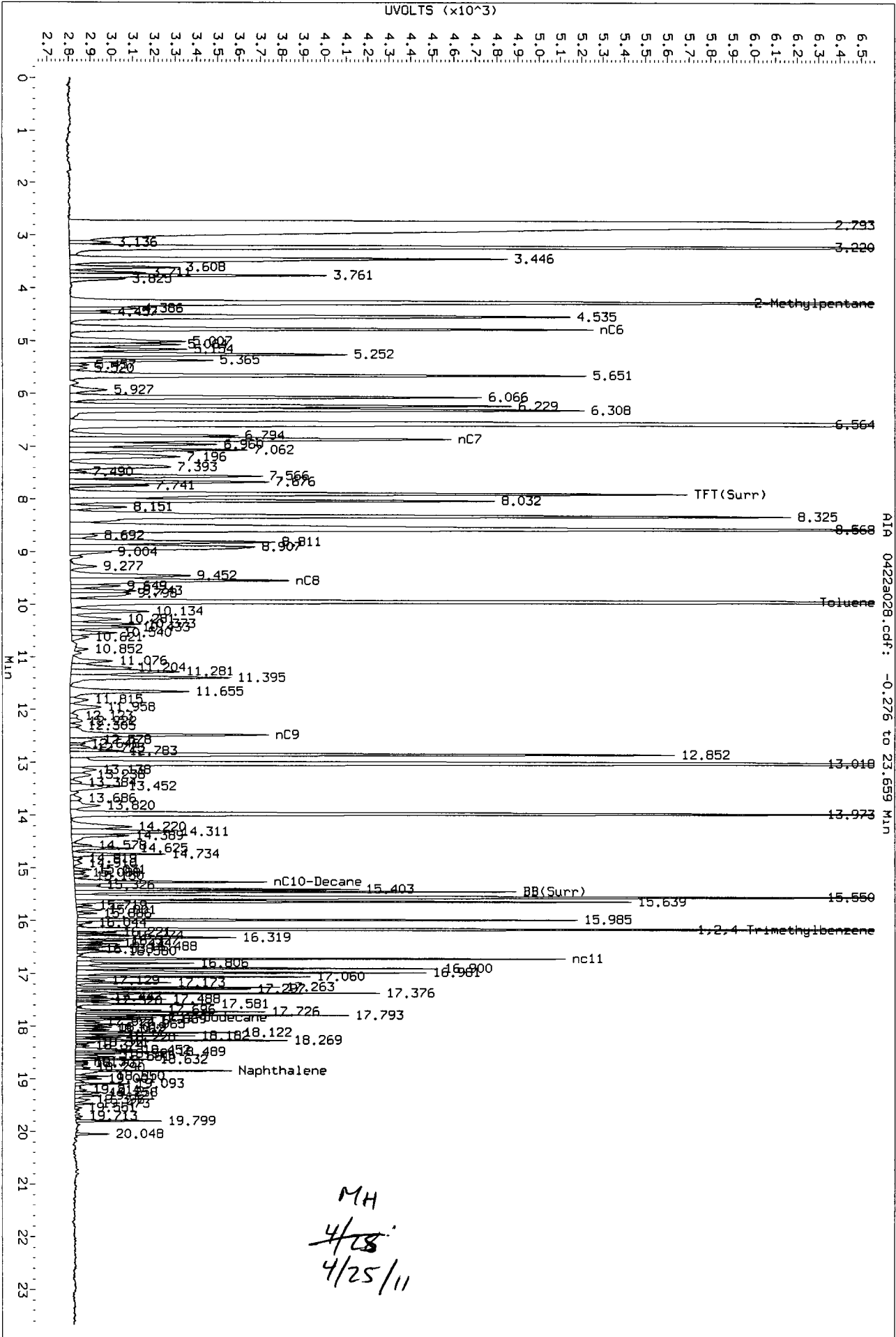
Column diameter: 0.18

Column phase: RTX 502-2 PID

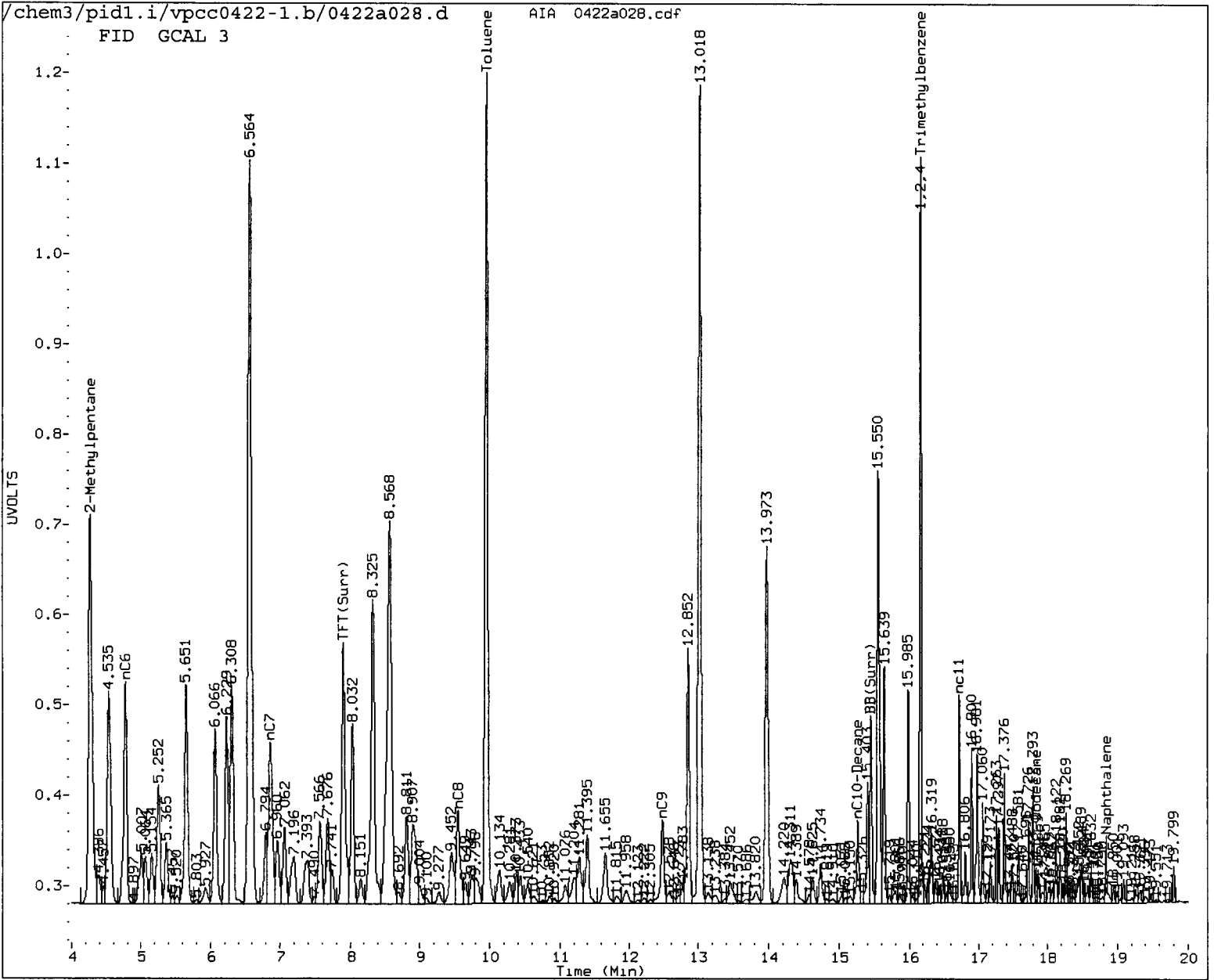
/chem3/pid1.i/vpcc0422-2.b/0422a028.d/0422a028.cdf



Data File: /chem3/p1d1.1/vpcc0422-1.b/0422a028.d/0422a028.cdf  
Injection Date: 22-APR-2011 19:24  
Instrument: p1d1.1  
Client Sample ID:



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4/25/11



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other \_\_\_\_\_

Analyst: MH

Date: 4/25/11

MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a029.d      ARI ID: SS710  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a029.d      Client ID: LL-SB2-2-3.5-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 19:53  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.902  | 0.003 | 2542   | 34417 | 89.9 | TFT(Surr) |
| 15.449 | 0.002 | 1962   | 16409 | 94.1 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 14324       | 0.038  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 13117       | 0.018  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 8850        | 0.015  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 15178       | 0.038  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.900  | 0.003 | 5695     | 87.4 | TFT(Surr) |
| 15.448 | 0.002 | 12612    | 93.6 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a029.d  
Date : 22-APR-2011 19:53  
Client ID: LL-SBE-2-3.5-041911  
Sample Info: SS710

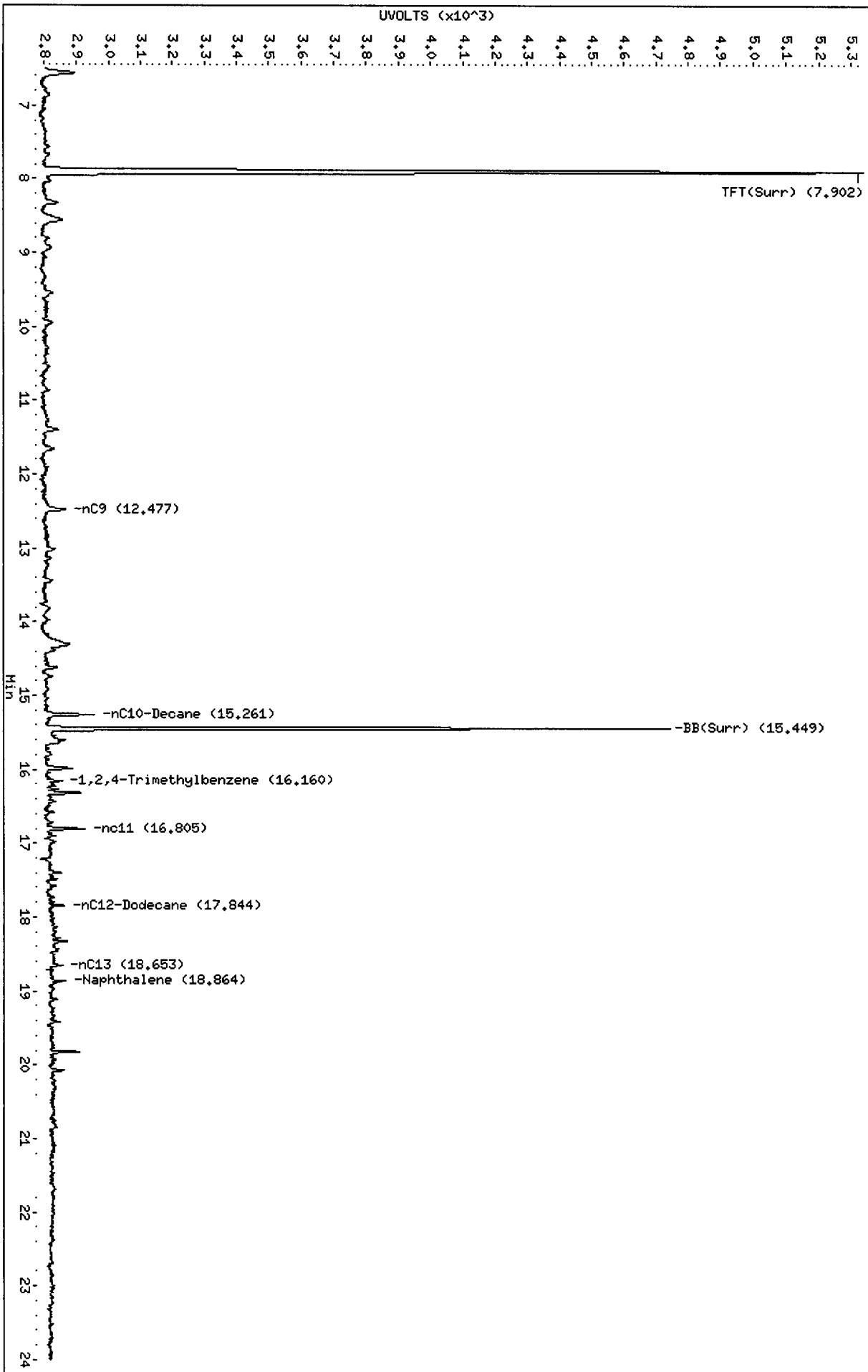
Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a029.d/0422a029.cdf

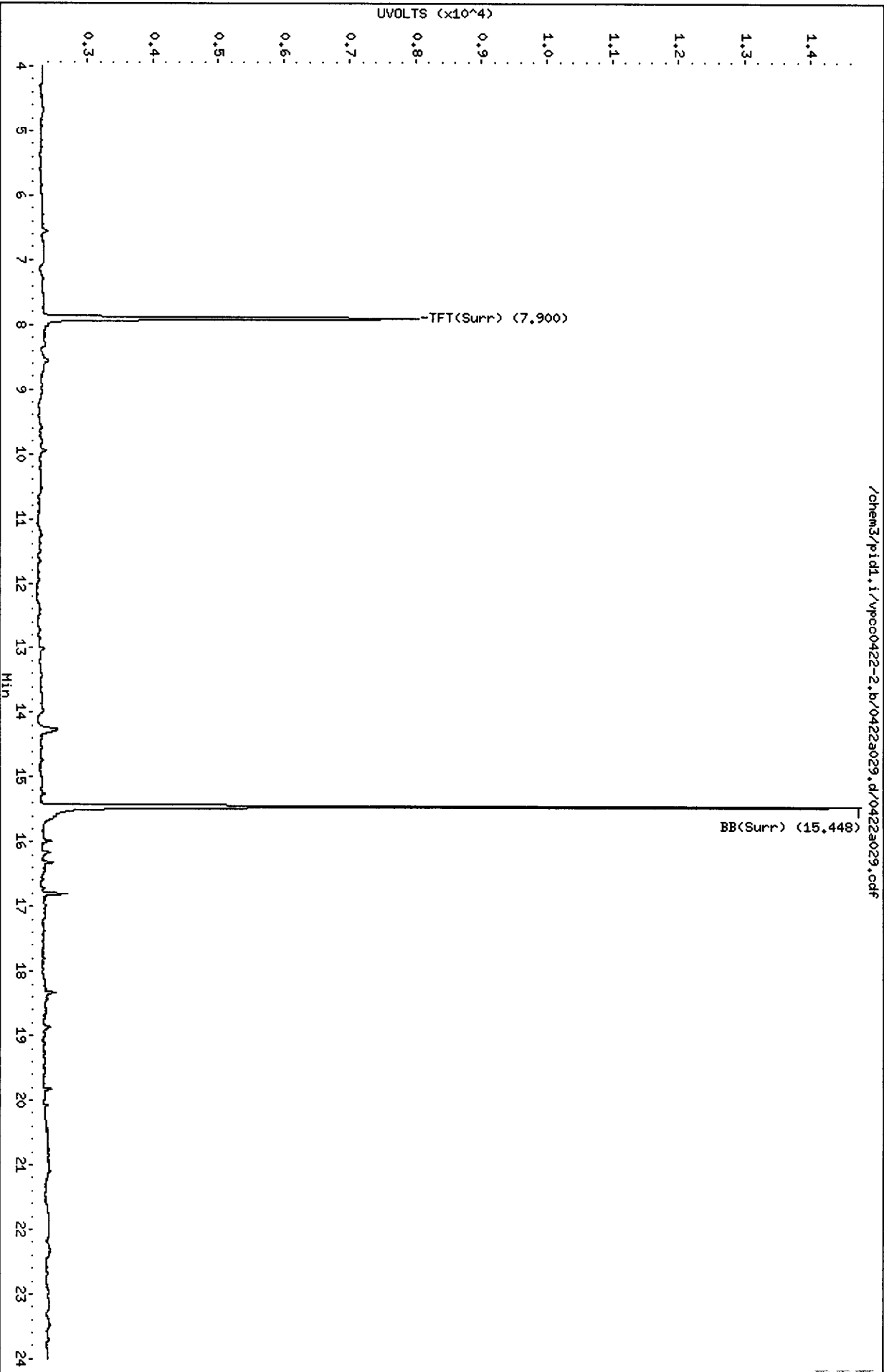


00101010101010101010

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a029.d  
Date: 22-APR-2011 19:53  
Client ID: LL-SB2-2-3.5-041911  
Sample Info: SS710

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0422-2.b/0422a029.d/0422a029.cdf

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Analytical Resources Inc.  
 BETX/Gas Quantitation Report

MH  
 4/25/11

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a030.d      ARI ID: SS71P  
 Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a030.d      Client ID: LL-SB1-0-0.5-041911  
 Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 20:23  
 Instrument: pid1.i    Matrix: SOIL  
 Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
 BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.902  | 0.003 | 2538   | 34585 | 89.7 | TFT(Surr) |
| 15.449 | 0.003 | 1917   | 16034 | 91.9 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 2293        | 0.006  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 1778        | 0.002  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 1778        | 0.003  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 2623        | 0.007  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
 Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.900  | 0.003 | 5728     | 88.0 | TFT(Surr) |
| 15.449 | 0.003 | 12324    | 91.4 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

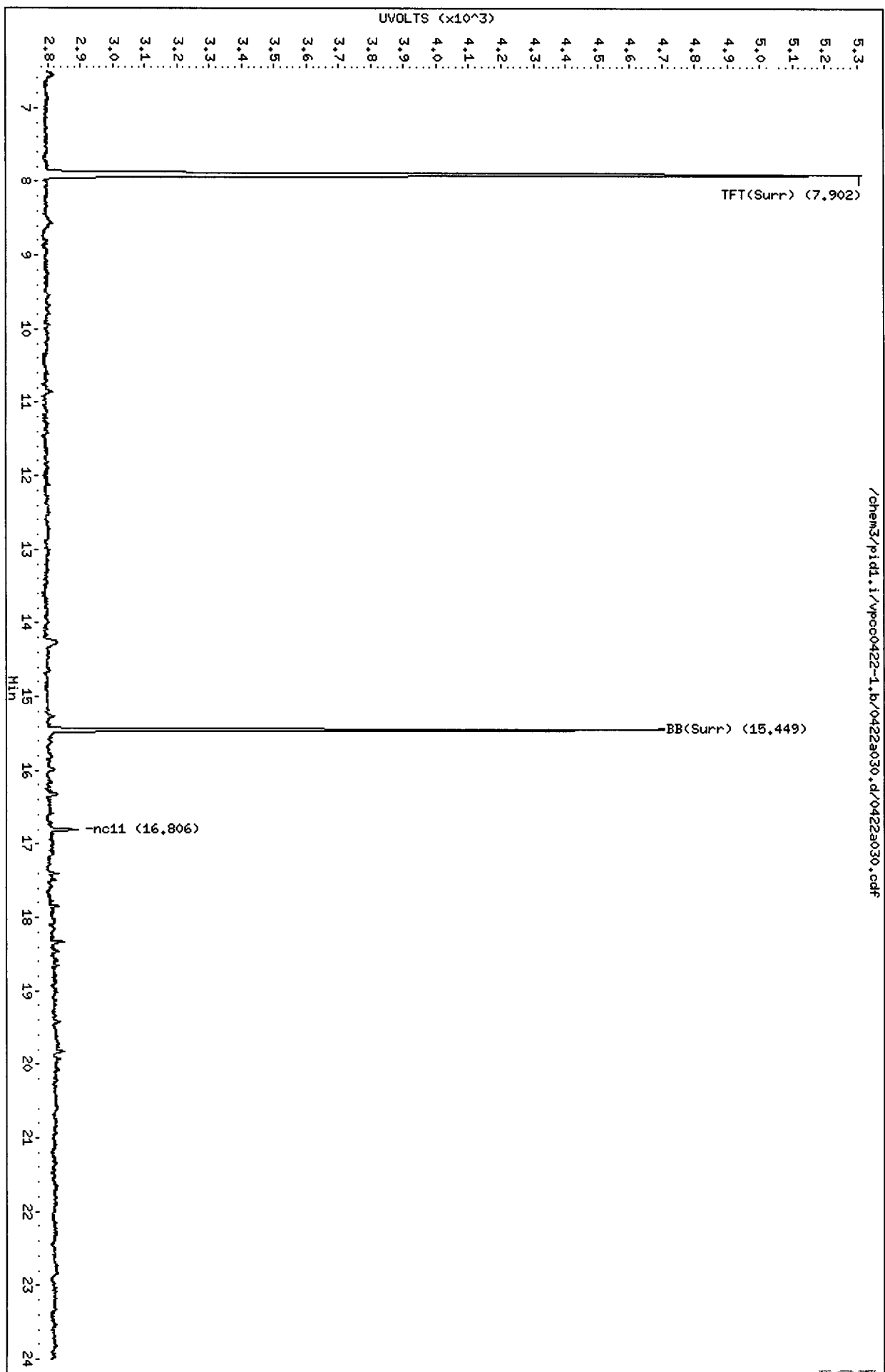
A Indicates Peak Area was used for quantitation instead of Height  
 N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a030.d  
Date : 22-APR-2011 20:23  
Client ID: LL-SB1-0-0.5-041911  
Sample Info: SS71P

Column phase: RTX 502-2 FID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a030.d/0422a030.cdf





Data File: /chem3/pid1.i/vpcc0422-2.b/0422a030.d

Date: 22-APR-2011 20:23

Client ID: LL-SBI-0-0.5-041914

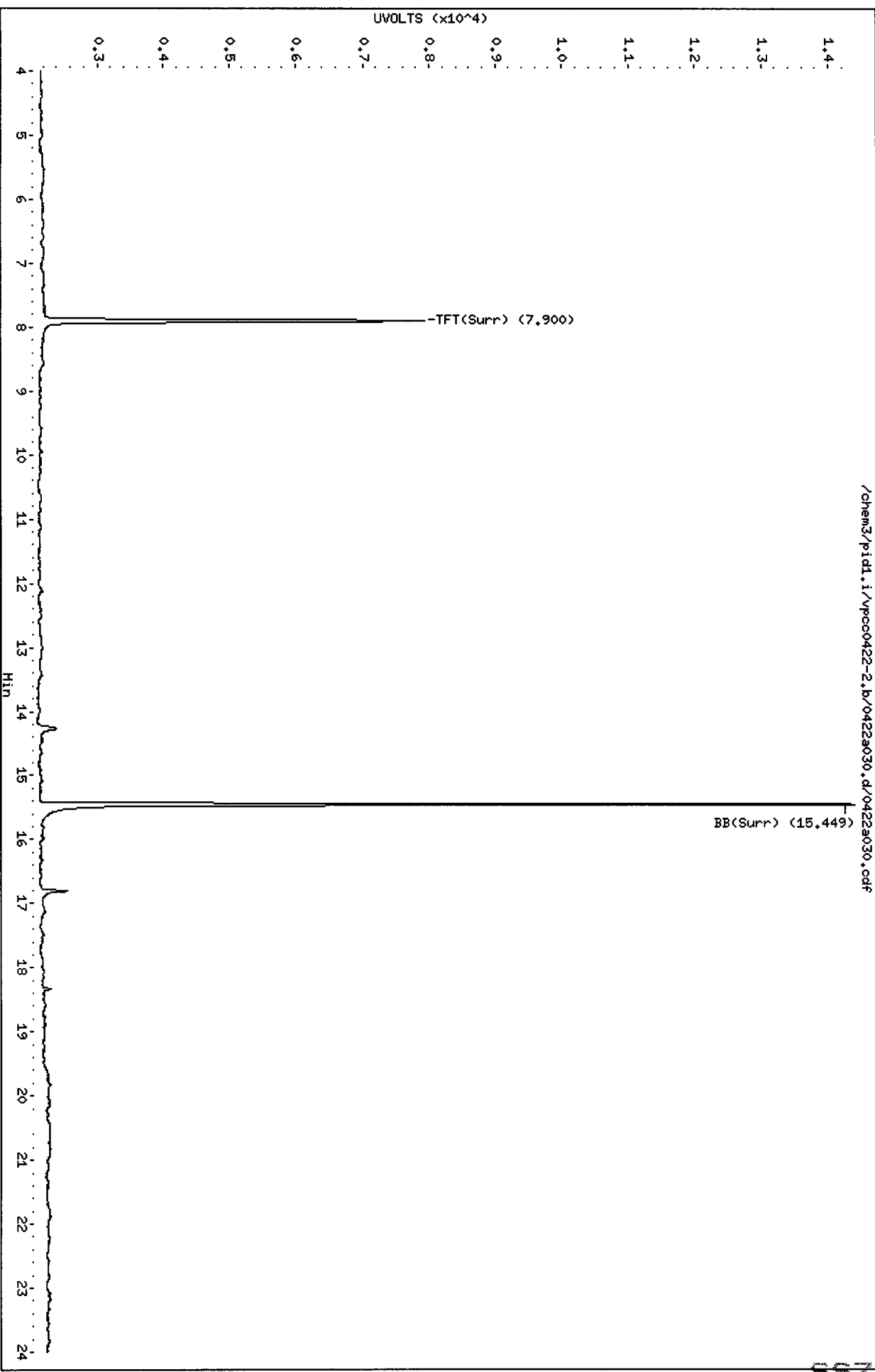
Sample Info: SS71P

Page 1

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: NH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-2.b/0422a030.d/0422a030.cdf



SS71 : 01022

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BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a031.d      ARI ID: SS71Q  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a031.d      Client ID: LL-SB1-0-0.5-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 20:52  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.901  | 0.002 | 2604   | 35381 | 92.0 | TFT(Surr) |
| 15.449 | 0.003 | 1988   | 16691 | 95.3 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 1267        | 0.003  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 545         | 0.001  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 544         | 0.001  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 1693        | 0.004  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.899  | 0.003 | 5902     | 90.6 | TFT(Surr) |
| 15.450 | 0.004 | 12855    | 95.4 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

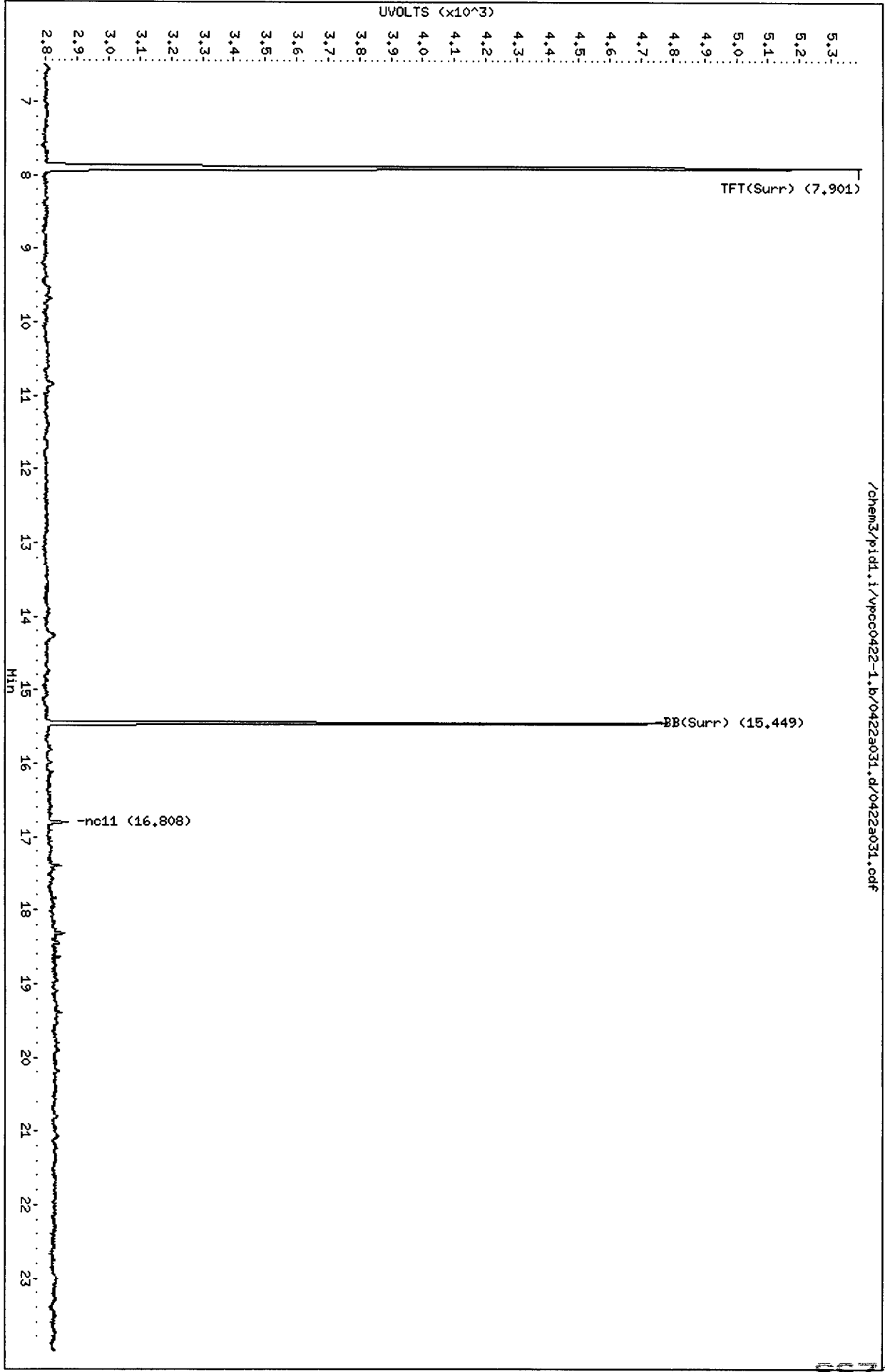
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a031.d  
Date : 22-APR-2011 20:52  
Client ID: LL-SBI-0-0.5-041911  
Sample Info: SS710

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a031.d/0422a031.cdf



1101 : 01624

Data File: /chem3/pidl.i/vpcc0422-2.b/0422a031.d

Date : 22-APR-2011 20:52

Client ID: LL-SB1-0-0.5-041914

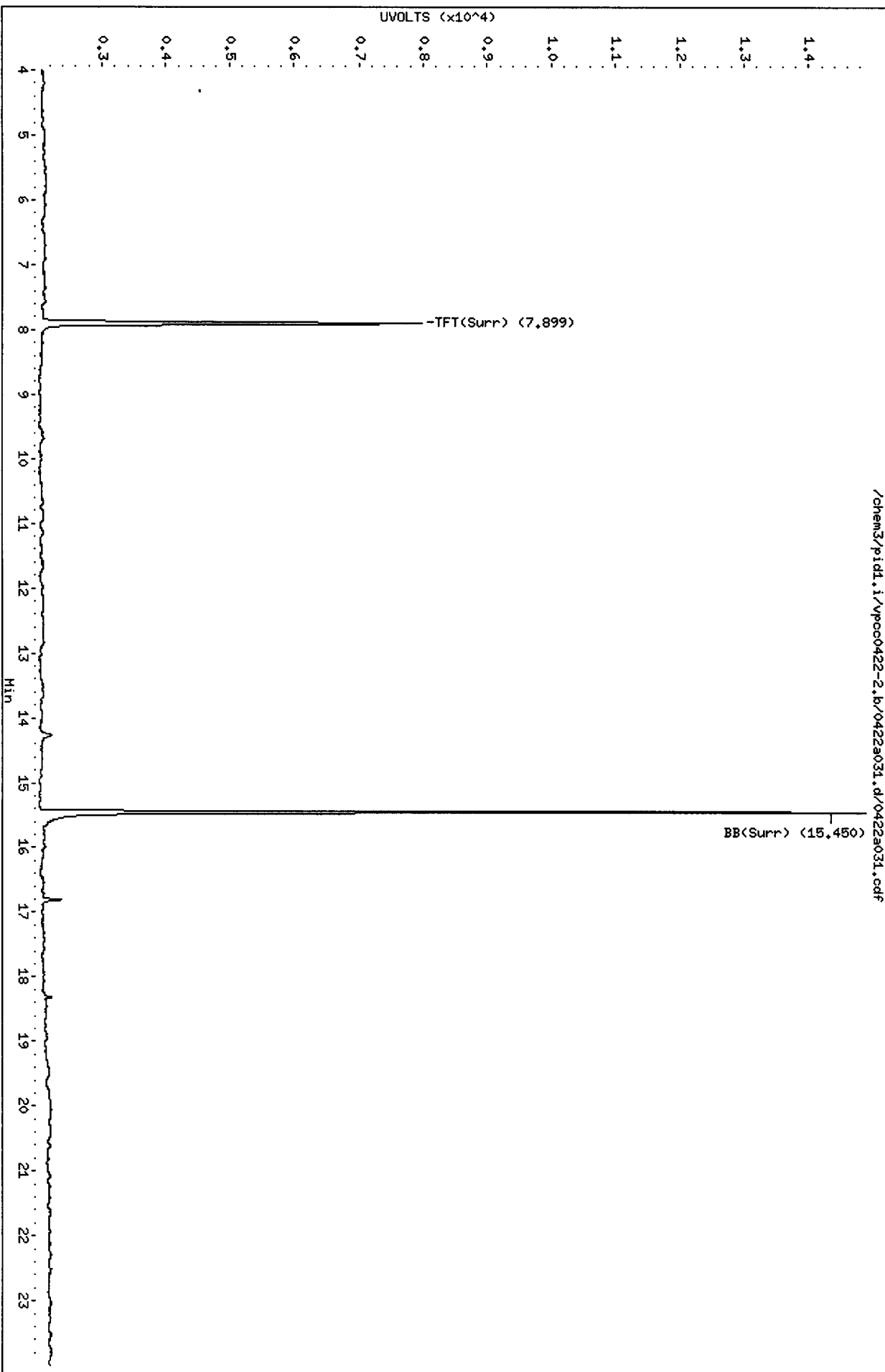
Sample Info: SS71Q

Column phase: RTX 502-2 PID

Instrument: pidl.i

Operator: MH

Column diameter: 0.18



52010 : 01025

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4/25/11

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BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a032.d      ARI ID: SS71R  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a032.d      Client ID: LL-SB1-1.5-2-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 21:21  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| --     | ----  | -----  | ----  | ---- | -----     |
| 7.900  | 0.001 | 2596   | 35049 | 91.8 | TFT(Surr) |
| 15.450 | 0.004 | 1960   | 16432 | 94.0 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 19266       | 0.051  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 13051       | 0.017  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 13050       | 0.022  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 19991       | 0.050  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| --     | ----  | -----    | ---- | -----     |
| 7.898  | 0.001 | 5900     | 90.6 | TFT(Surr) |
| 15.450 | 0.004 | 12792    | 94.9 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| -- | ----  | -----    | -----  | -----        |
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

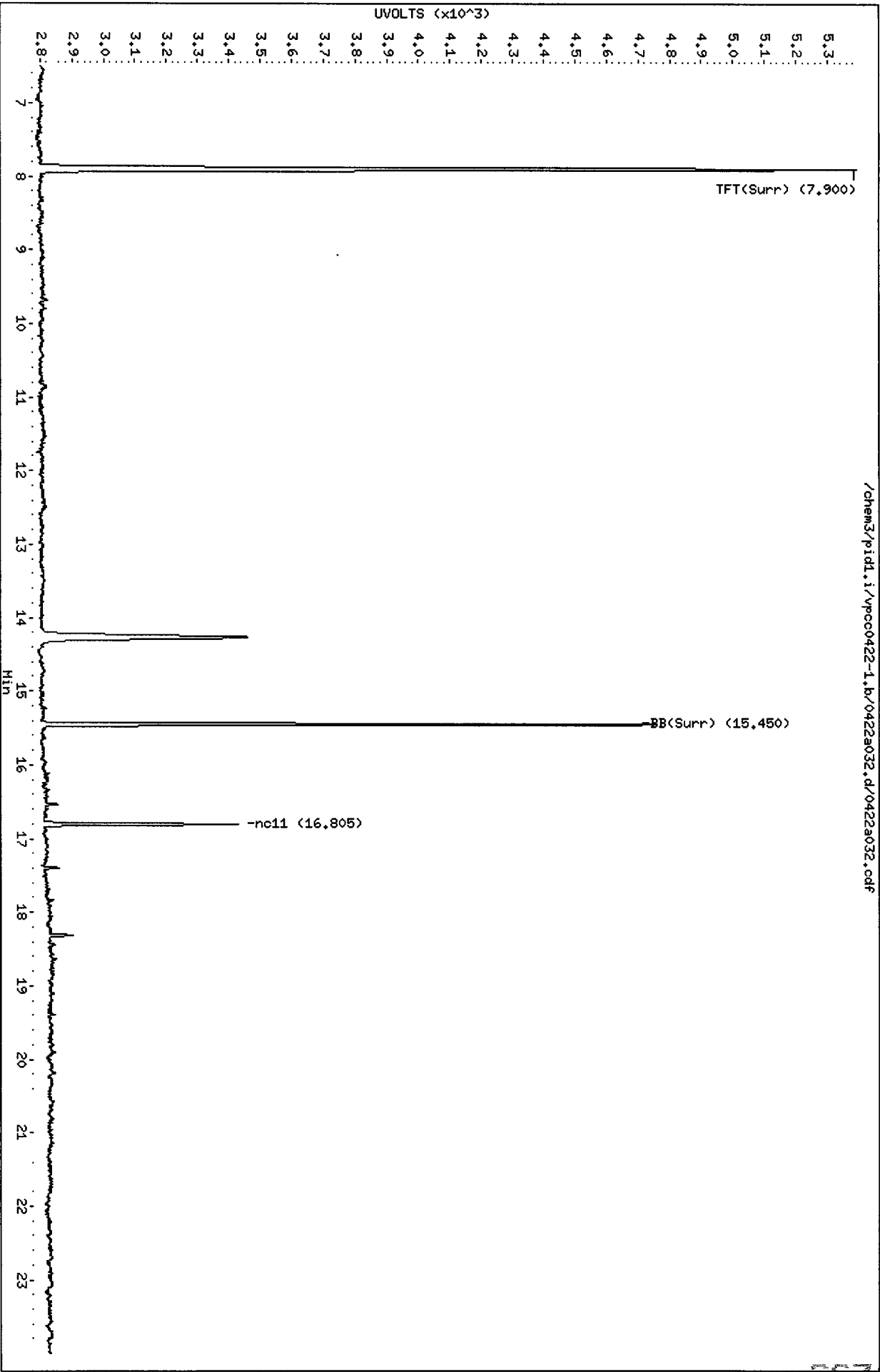
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0422-1.b/0422a032.d  
Date: 22-APR-2011 21:21  
Client ID: LL-SB1-1.5-2-041911  
Sample Info: SS7LR

Column phase: RTX 502-2 FID

Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18

/chem3/pid1.i/vpcc0422-1.b/0422a032.d/0422a032.cdf



Data File: /chem3/pid1.i/vpcc0422-2.b/0422a032.d

Date : 22-APR-2011 21:21

Client ID: LL-SB1-1.5-2-041911

Sample Info: SS71R

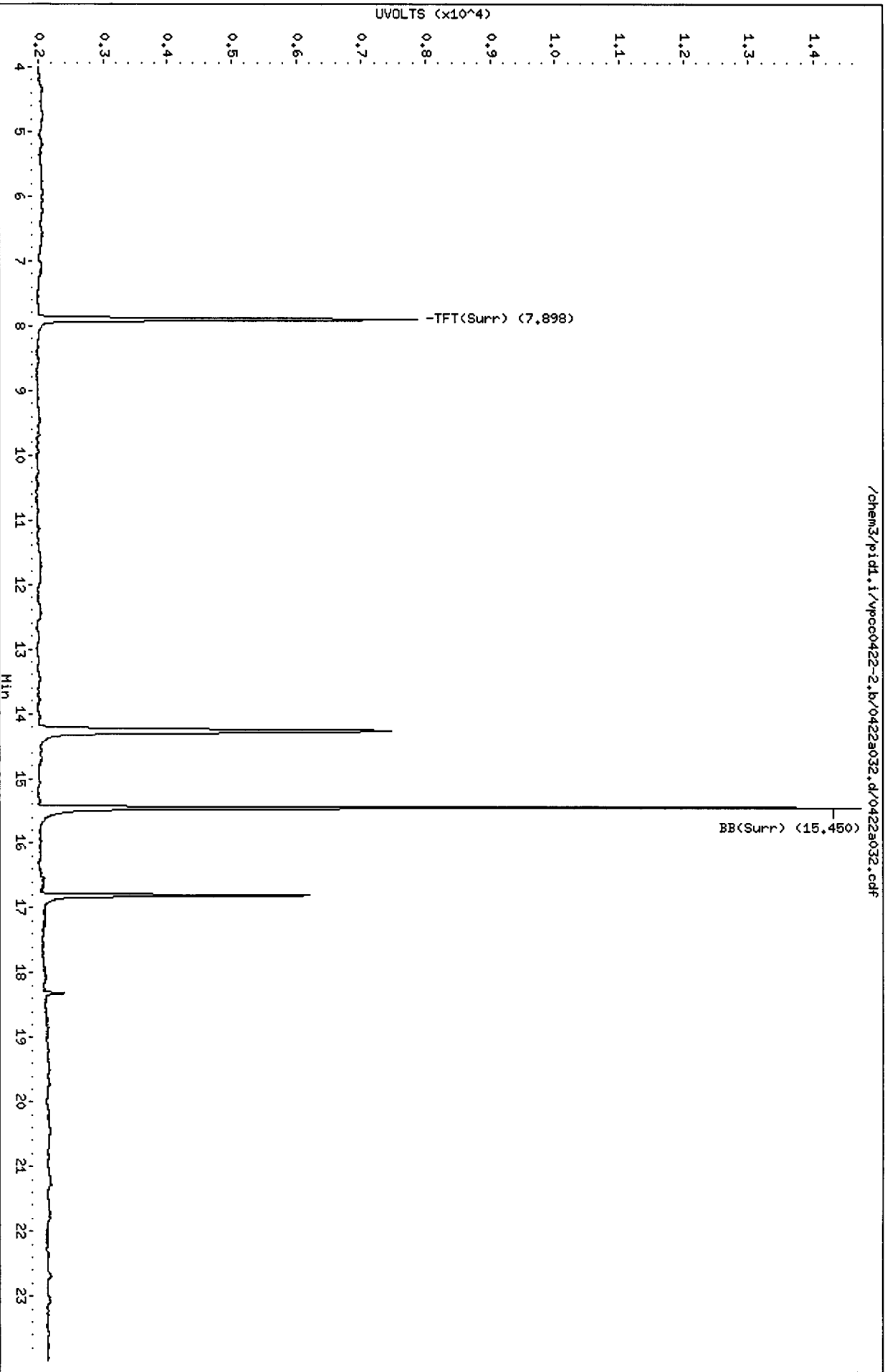
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a033.d      ARI ID: SS71S  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a033.d      Client ID: LL-SB1-2-4-041911  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 21:50  
Instrument: pid1.i    Matrix: SOIL  
Gas Ical Date: 16-APRIL-2011                              Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| --     | ----  | -----  | ----  | ---- | -----     |
| 7.899  | 0.000 | 2621   | 34929 | 92.6 | TFT(Surr) |
| 15.448 | 0.002 | 1992   | 16609 | 95.5 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| -----                           | ----   | -----       | -----  |
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 3375        | 0.009  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 2053        | 0.003  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 2053        | 0.003  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 3865        | 0.010  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| --     | ----  | -----    | ---- | -----     |
| 7.896  | 0.000 | 5889     | 90.4 | TFT(Surr) |
| 15.448 | 0.002 | 12845    | 95.3 | BB(Surr)  |

SW8021 (PID)

| RT | Shift | Response | Amount | Compound     |
|----|-------|----------|--------|--------------|
| -- | ----  | -----    | -----  | -----        |
| ND | ---   | ---      | ---    | Benzene      |
| ND | ---   | ---      | ---    | Toluene      |
| ND | ---   | ---      | ---    | Ethylbenzene |
| ND | ---   | ---      | ---    | M/P-Xylene   |
| ND | ---   | ---      | ---    | O-Xylene     |
| ND | ---   | ---      | ---    | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated



Data File: /chem3/pid1.i/vpcc0422-1.b/0422a033.d

Date: 22-APR-2011 21:50

Client ID: LL-SB1-2-4-041911

Sample Info: SS71S

Page 1

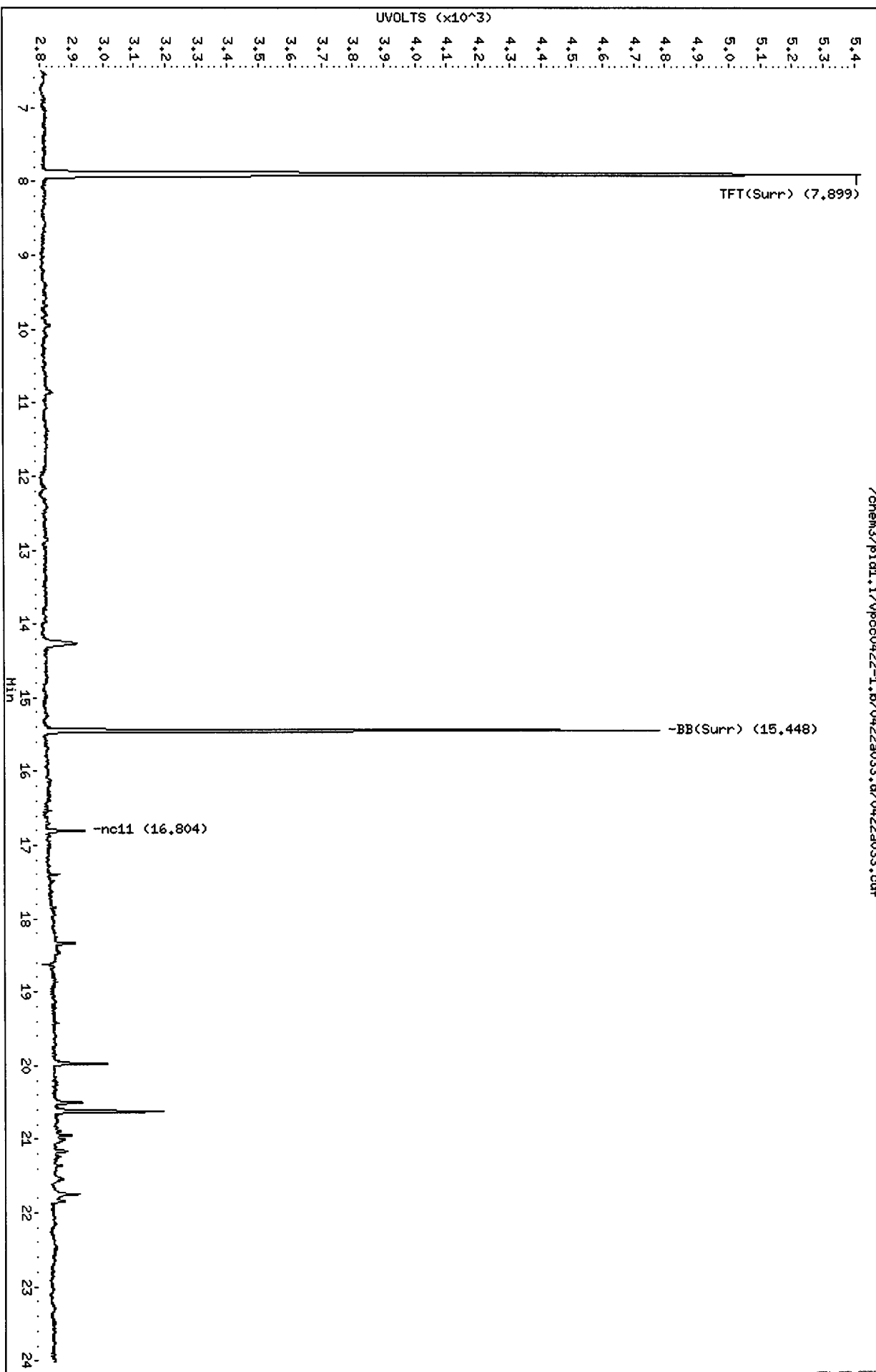
Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0422-1.b/0422a033.d/0422a033.cdf



0071 : 01030

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a033.d

Date: 22-APR-2011 21:50

Client ID: LL-SB1-2-4-041911

Sample Info: SS71S

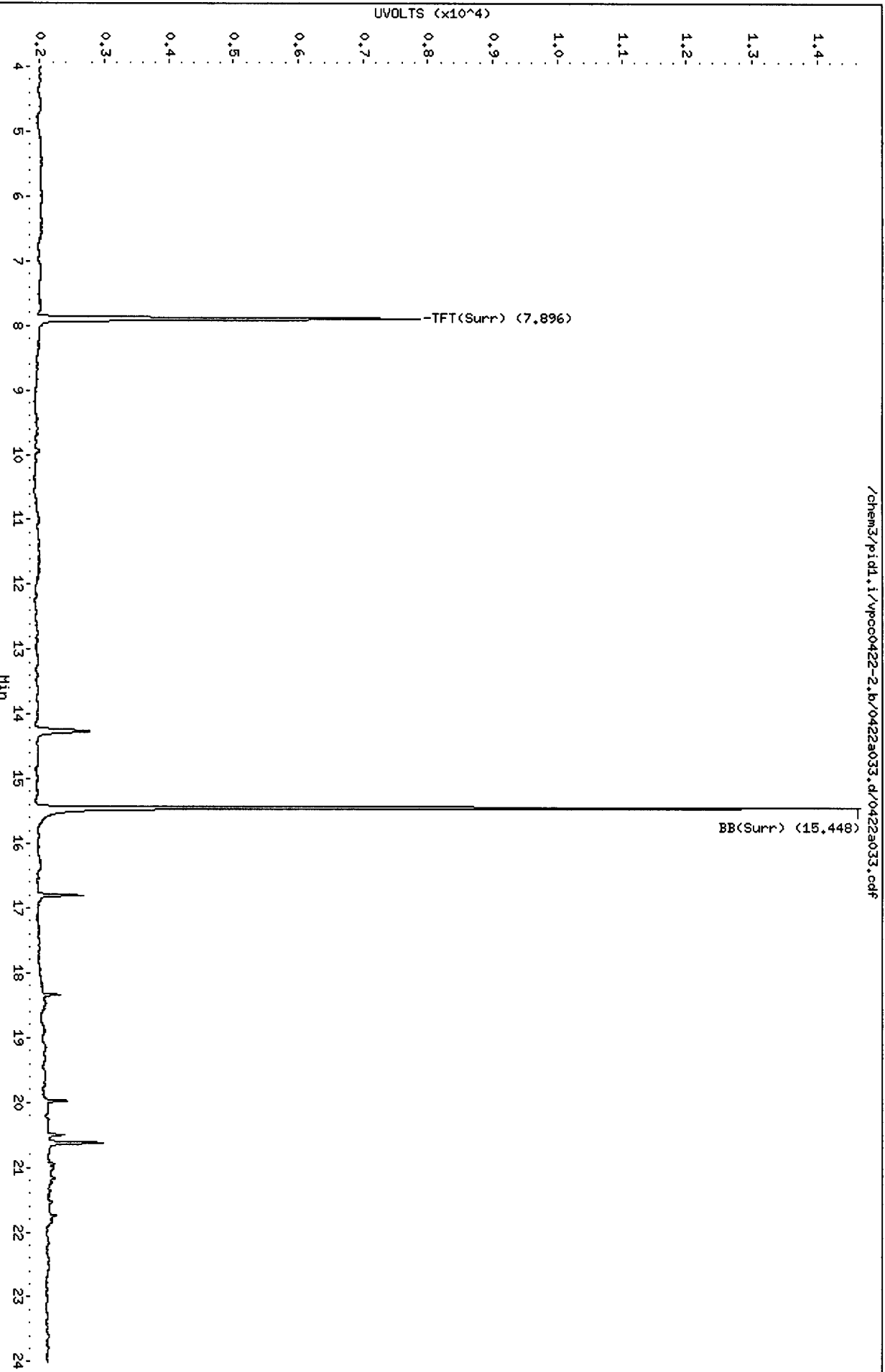
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



10010 : 1105

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4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pidl.i/vpcc0422-1.b/0422a035.d      ARI ID: BCAL 4  
Data file 2: /chem3/pidl.i/vpcc0422-2.b/0422a035.d      Client ID:  
Method: /chem3/pidl.i/vpcc0422-2.b/PIDB.m              Injection Date: 22-APR-2011 22:48  
Instrument: pidl.i    Matrix: WATER  
Gas Ical Date: 16-APRIL-2011                                  Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.901  | 0.002 | 2489   | 33712 | 88.0 | TFT(Surr) |
| 15.450 | 0.004 | 1936   | 16070 | 92.8 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount |
|---------------------------------|--------|-------------|--------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 223129      | 0.595  |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 221985      | 0.297  |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 204997      | 0.339  |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 223333      | 0.554  |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.899  | 0.002 | 5597     | 85.9 | TFT(Surr) |
| 15.450 | 0.004 | 12544    | 93.1 | BB(Surr)  |

SW8021 (PID)

| RT     | Shift  | Response | Amount | Compound     |
|--------|--------|----------|--------|--------------|
| 7.049  | -0.002 | 10340    | 23.59  | Benzene      |
| 9.945  | 0.003  | 8951     | 22.89  | Toluene      |
| 12.850 | 0.004  | 7855     | 23.00  | Ethylbenzene |
| 13.012 | 0.004  | 16675    | 45.41  | M/P-Xylene   |
| 13.970 | 0.006  | 6774     | 23.66  | O-Xylene     |
| 4.527  | 0.000  | 3844     | 22.64  | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpoc0422-1.b/0422a035.d

Page 1

Date : 22-APR-2011 22:48

Client ID:

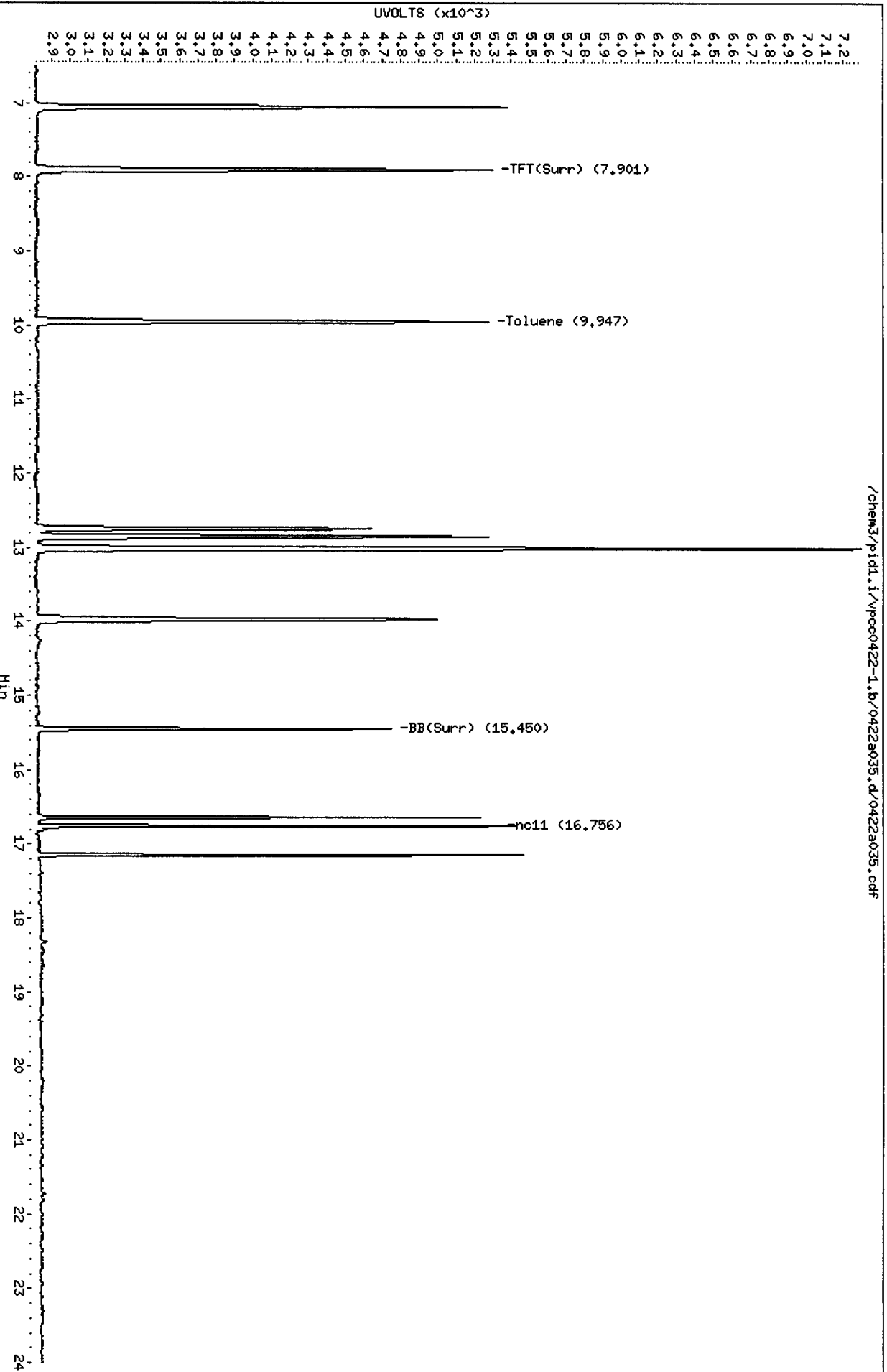
Instrument: pid1.i

Sample Info: BCDL 4

Operator: HH

Column phase: RTX 502-2 FID

Column diameter: 0.18



/chem3/pid1.i/vpoc0422-1.b/0422a035.d/0422a035.cdf

Data File: /chem3/pid1.i/vpcc0422-2.b/0422a035.d

Date: 22-APR-2011 22:48

Client ID:

Sample Info: BCAL 4

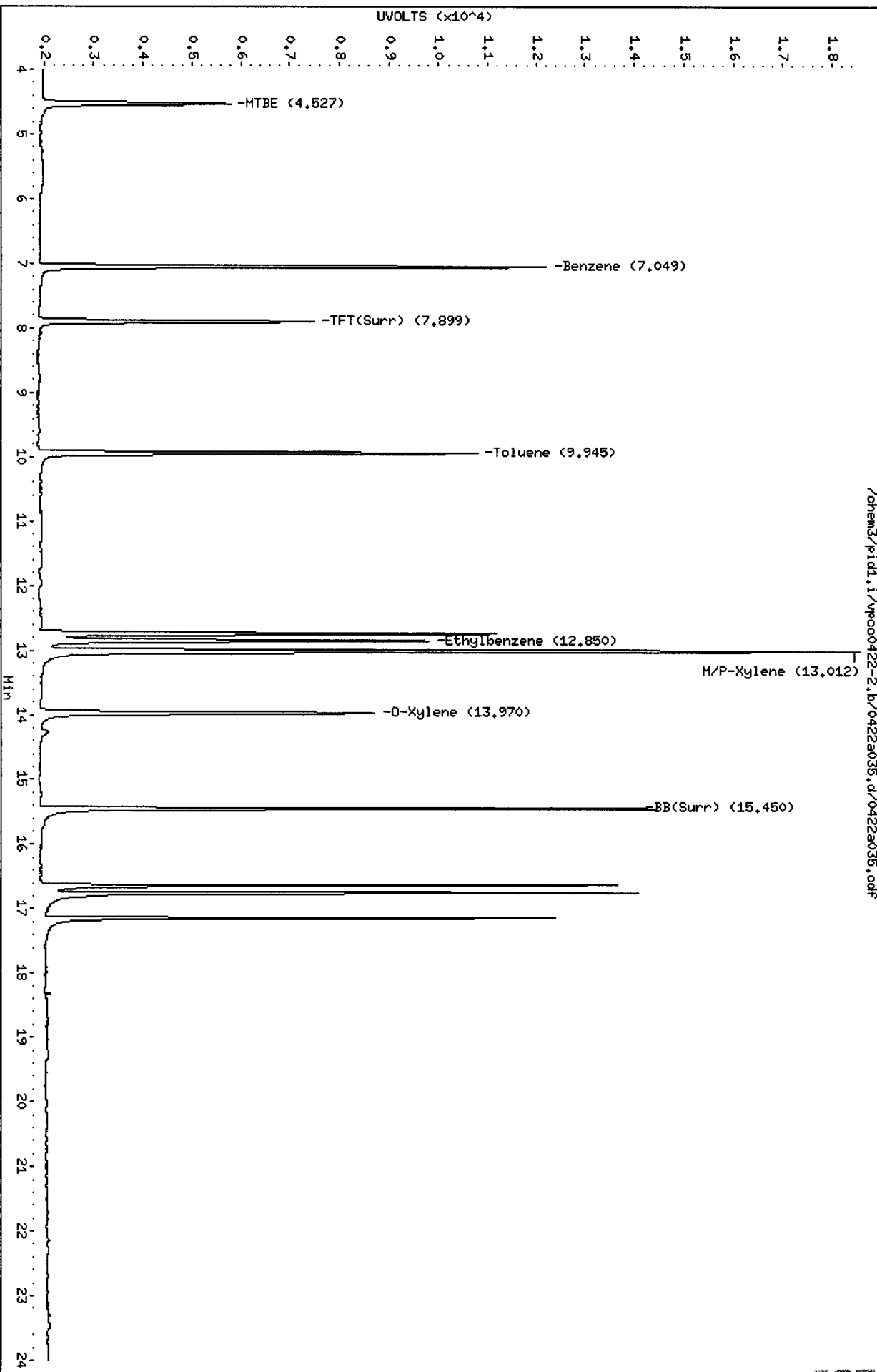
Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0422-2.b/0422a035.d/0422a035.cdf



MH  
4/25/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0422-1.b/0422a036.d      ARI ID: GCAL 4  
Data file 2: /chem3/pid1.i/vpcc0422-2.b/0422a036.d      Client ID:  
Method: /chem3/pid1.i/vpcc0422-2.b/PIDB.m            Injection Date: 22-APR-2011 23:18  
Instrument: pid1.i                                        Matrix: WATER  
Gas Ical Date: 16-APRIL-2011                         Dilution Factor: 1.000  
BETX Ical Date: 16-APR-2011

FID Surrogates

| RT     | Shift | Height | Area  | %Rec | Compound  |
|--------|-------|--------|-------|------|-----------|
| 7.901  | 0.002 | 2773   | 48817 | 98.0 | TFT(Surr) |
| 15.450 | 0.004 | 2008   | 18002 | 96.3 | BB(Surr)  |

PETROLEUM HYDROCARBONS (FID)

| Range                           | RF     | Total Area* | Amount  |
|---------------------------------|--------|-------------|---------|
| WAGas Tol-C12 ( 9.84 to 17.94)  | 374773 | 820297      | 2.189 M |
| 8015B 2MP-TMB ( 4.15 to 16.26)  | 747017 | 1606051     | 2.150 M |
| AK101 nC6-nC10 ( 4.66 to 15.16) | 604063 | 1284036     | 2.126 M |
| NWTPHG Tol-Nap ( 9.84 to 18.96) | 403422 | 870710      | 2.158 M |

M Indicates manual integration within range

\* Surrogate areas are subtracted from Total Area  
Range marker RT's are set by daily RT standard

PID Surrogates

| RT     | Shift | Response | %Rec | Compound  |
|--------|-------|----------|------|-----------|
| 7.899  | 0.003 | 5966     | 91.6 | TFT(Surr) |
| 15.450 | 0.004 | 12980    | 96.3 | BB(Surr)  |

SW8021 (PID)

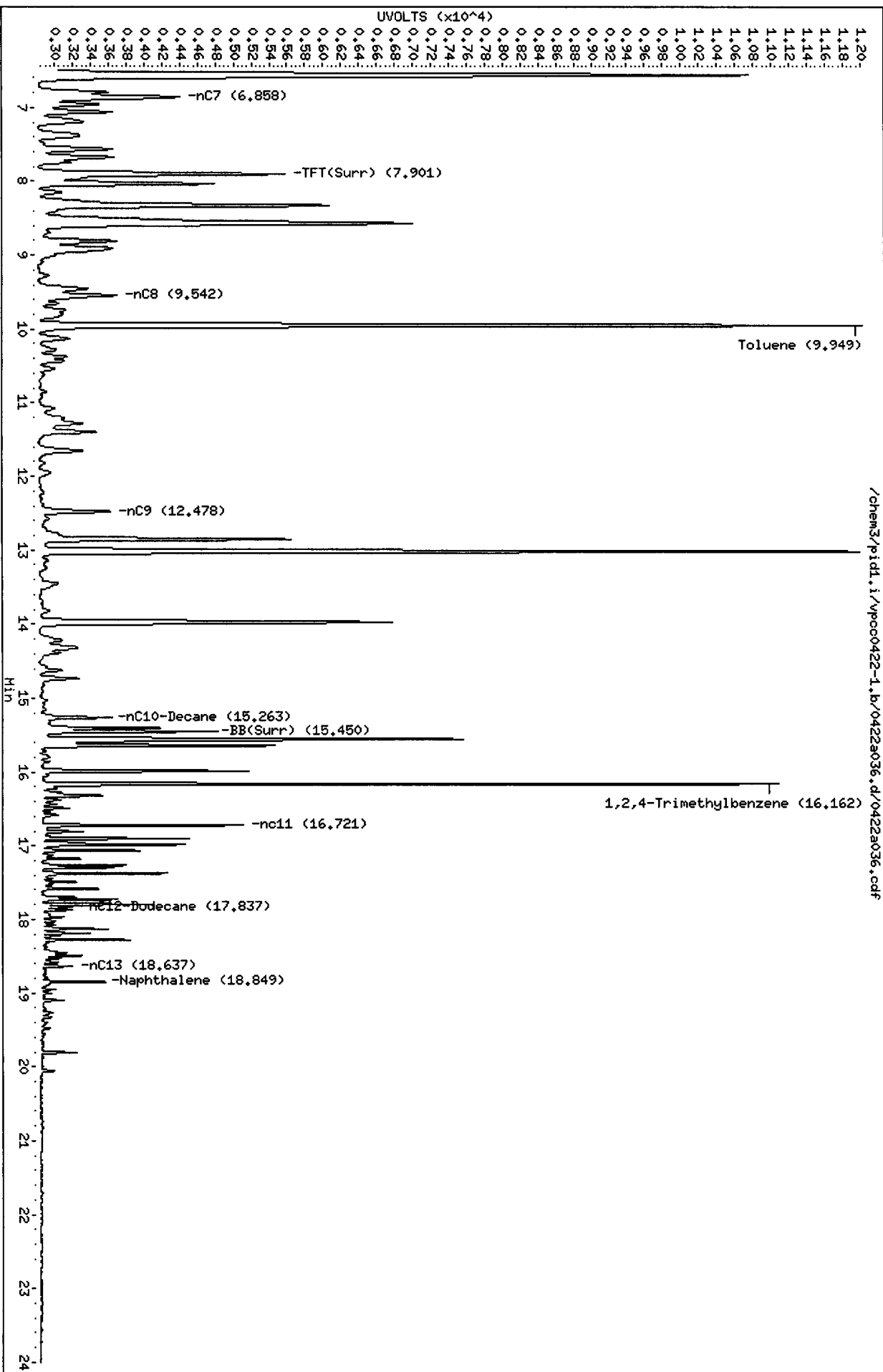
| RT     | Shift | Response | Amount | Compound     |
|--------|-------|----------|--------|--------------|
| 7.059  | 0.008 | 3227     | 7.36   | Benzene      |
| 9.947  | 0.005 | 34595    | 88.47  | Toluene      |
| 12.851 | 0.005 | 8686     | 25.43  | Ethylbenzene |
| 13.016 | 0.008 | 34732    | 94.58  | M/P-Xylene   |
| 13.971 | 0.007 | 12394    | 43.28  | O-Xylene     |
| 4.529  | 0.002 | 665      | 3.92   | MTBE         |

A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pidl.i/vpcc0422-1.b/0422a036.d  
Date : 22-APR-2011 23:18  
Client ID:  
Sample Info: GCAL 4

Column phase: RTX 502-2 FID

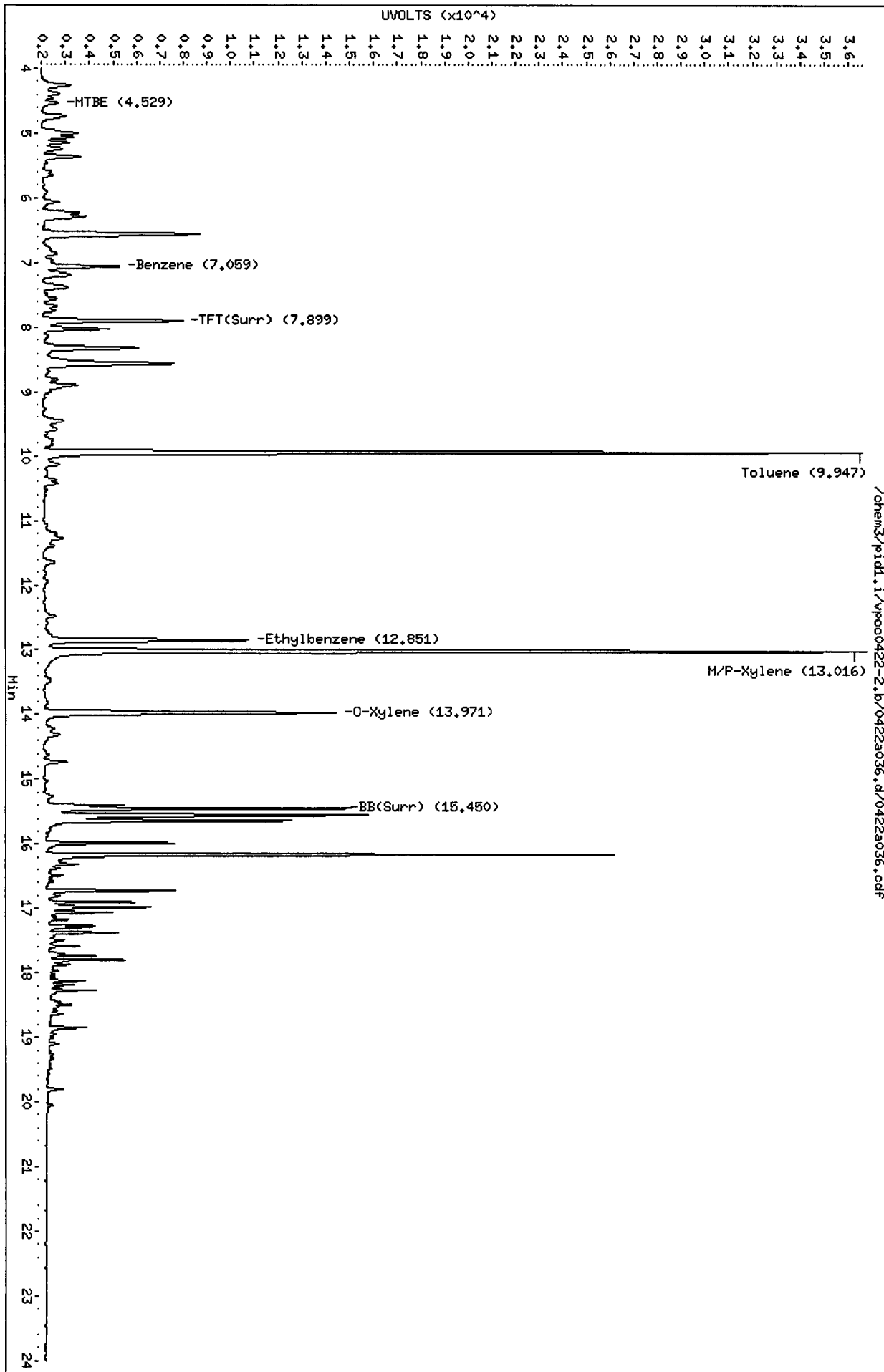
Instrument: pidl.i  
Operator: HH  
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0422-2.b/0422a036.d  
Date : 22-APR-2011 23:18  
Client ID:  
Sample Info: CCL 4

Column phase: RTX 502-2 PID

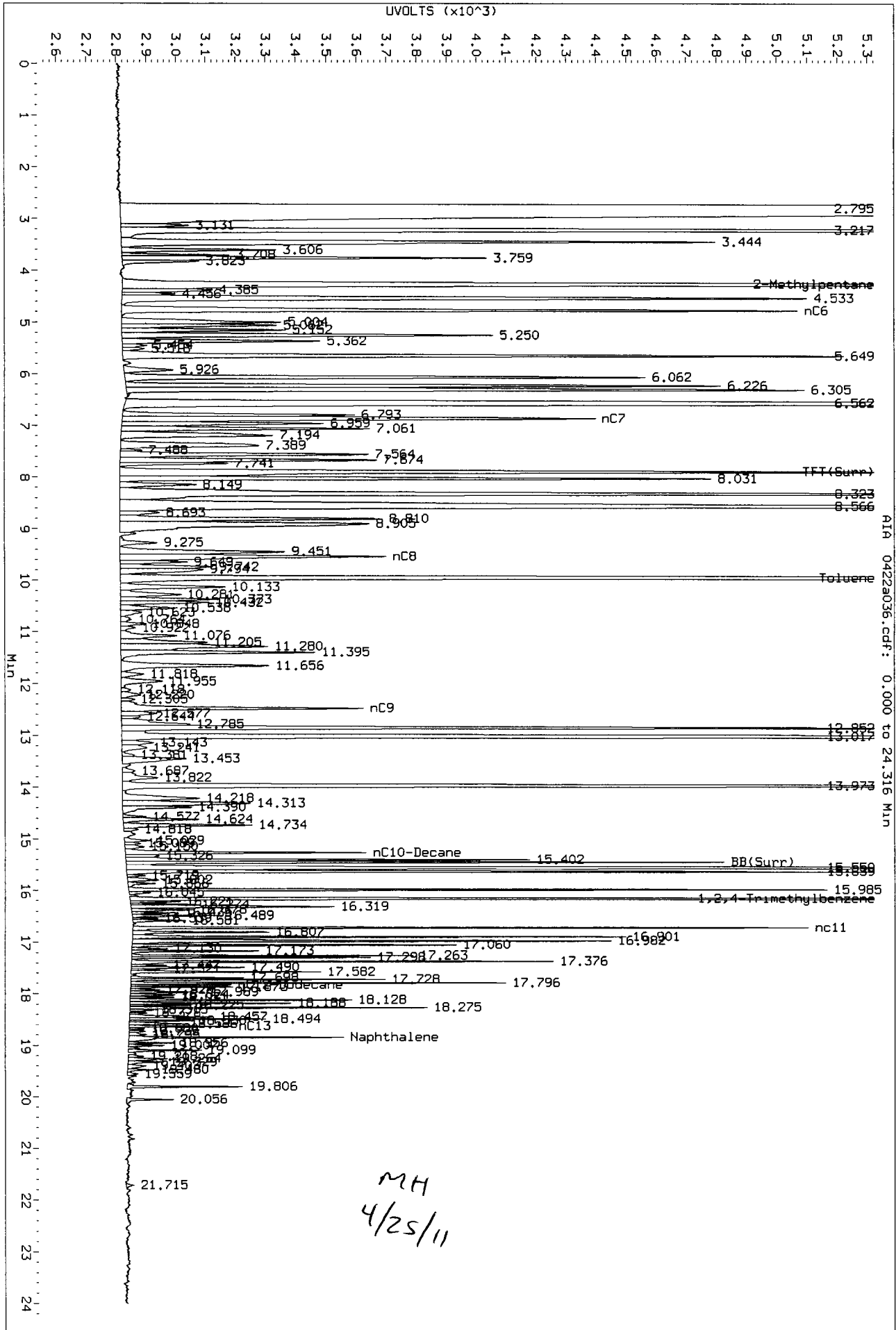
Instrument: pid1.i  
Operator: HH  
Column diameter: 0.18



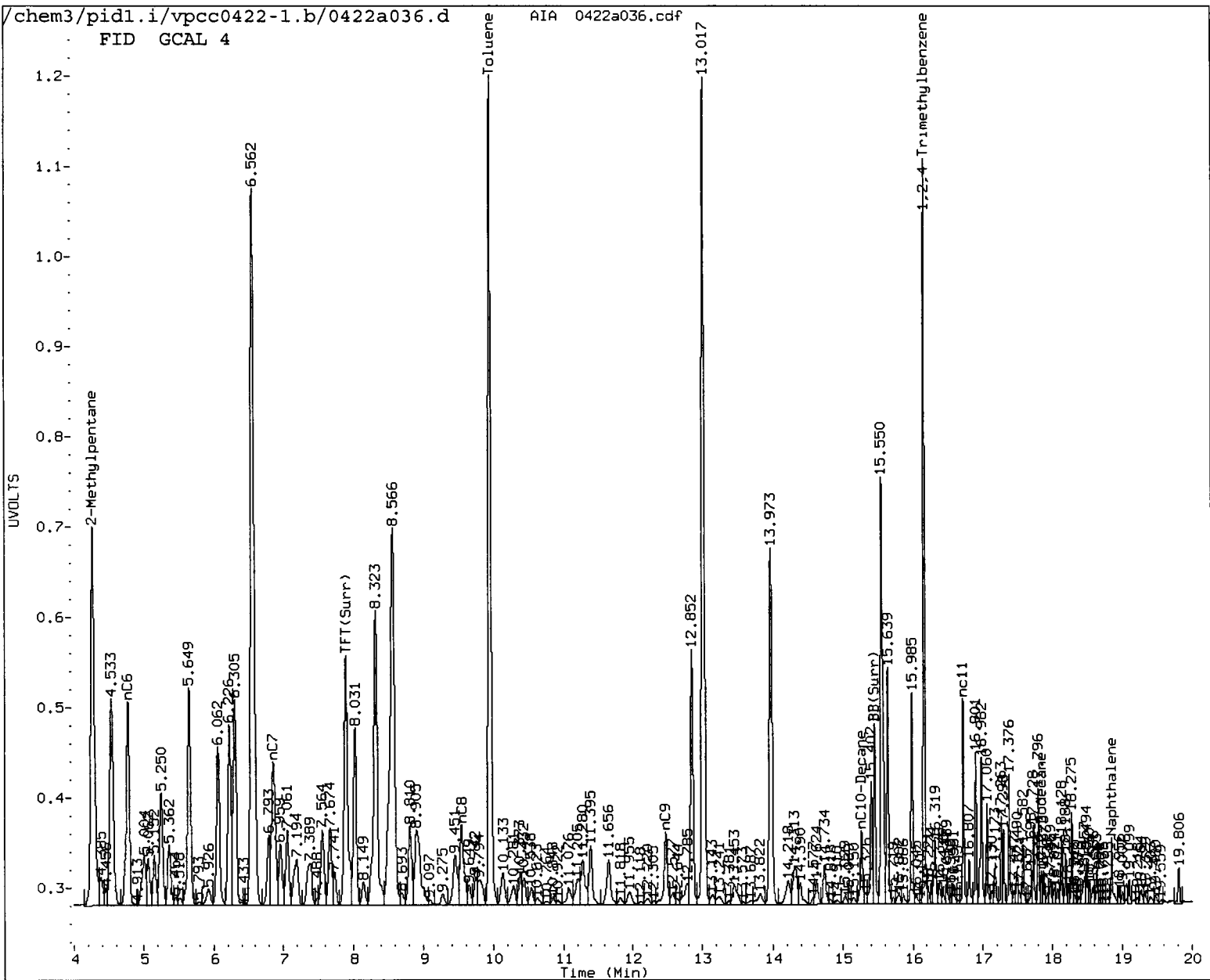
01037



Data File: /chem3/pid1.i/vpcc0422-1.b/0422a036.d/0422a036.cdf  
Injection Date: 22-APR-2011 23:18  
Instrument: pid1.1  
Client Sample ID:



AIA 0422a036.cdf: 0.000 to 24.316 Min



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other \_\_\_\_\_

Analyst: MH Date: 4/25/11

**Metals Raw Data  
Preparation Bench Sheets and Notes**

**ARI Job ID: SS71**



Analytical Resources, Incorporated  
Analytical Chemists and Consultants

## SPIKING LOG

Sample ID 5571 ISPX, MBISPK

Final Volume 50

Analyst: DM

Date: 4-21-11

Final Volume (Hg): \_\_\_\_\_

| Prepcode:       | ICP Routine    | ICP No GFA | GFA |
|-----------------|----------------|------------|-----|
| Spike Solution: | <u>SWK</u>     |            |     |
| Standard No.:   | <u>2791-14</u> |            |     |
| Vol Added (mL): | <u>1.0</u>     |            |     |
| Ag              | 50             |            | 2.0 |
| Al              | 200            | 200        |     |
| As              | 200 ✓          |            | 10  |
| Ba              | 200            | 200        |     |
| Be              | 50             | 50         |     |
| Ca              | 1000           | 1000       |     |
| Cd              | 50             |            | 2.0 |
| Co              | 50             | 50         |     |
| Cr              | 50             | 50         |     |
| Cu              | 50             | 50         |     |
| Fe              | 200            | 200        |     |
| K               | 1000           | 1000       |     |
| Mg              | 1000           | 1000       |     |
| Mn              | 50             | 50         |     |
| Na              | 1000           | 1000       |     |
| Ni              | 50             | 50         |     |
| Pb              | 200 ✓          |            | 10  |
| Se              | 200            |            | 10  |
| Sr              | 50             | 50         |     |
| Ti              | 200            |            | 10  |
| V               | 50             | 50         |     |
| Zn              | 50             | 50         |     |

| ICP-MS #1 | ICP-MS #2 | ICP-MS Minerals |
|-----------|-----------|-----------------|
| Ag        | 25        |                 |
| Al        |           | 500             |
| As        | 25        |                 |
| Ba        | 25        |                 |
| Be        | 25        |                 |
| Ca        |           | 500             |
| Cd        | 25        |                 |
| Co        | 25        |                 |
| Cr        | 25        |                 |
| Cu        | 25        |                 |
| Fe        |           | 500             |
| K         |           | 500             |
| Mg        |           | 500             |
| Mn        | 25        |                 |
| Mo        |           | 25              |
| Na        |           | 500             |
| Ni        | 25        |                 |
| Pb        | 25        |                 |
| Sb        |           | 25              |
| Se        | 80        |                 |
| Ti        | 25        |                 |
| U         | 25        |                 |
| V         | 25        |                 |
| Zn        | 80        |                 |

| Element  | Prepcode | Analysis | Stock Conc. | Stock Added | Std No. |
|----------|----------|----------|-------------|-------------|---------|
| Hg       |          | CVA      | 1.0         |             |         |
| Hg MBSPK |          | CVA      | 1.0         |             |         |
| Sb       |          | ICP      | 2000        |             |         |
| Sb       |          | GFA      | 100         |             |         |
| B        |          | ICP      | 500         |             |         |
| Mo       |          | ICP      | 500         |             |         |
| Si       |          | ICP      | 10000       |             |         |
| Sn       |          | ICP      | 500         |             |         |
| Ti       |          | ICP      | 2000        |             |         |

Additional Elements:

| Element | Prepcode | Analysis | Stock Conc. | Stock Added | Std. No. |
|---------|----------|----------|-------------|-------------|----------|
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |
|         |          |          |             |             |          |

5571 : 01641



# Digestion Log

Analyst: DM

Date: 4-21-11

Matrix: Soil Block ID: #2 Block Temp: 90°C Thermometer: MP17

| ARI Sample ID | Btl # | pH<2 | Prep Code: <u>SNC</u>      |                | Prep Code:                 |                | Comments |
|---------------|-------|------|----------------------------|----------------|----------------------------|----------------|----------|
|               |       |      | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) |          |
| SS71 A        | 7     | -    | 1.008                      | 50.0           |                            |                |          |
| " B           | 7     | -    | 1.080                      |                |                            |                |          |
| " C           | 7     | -    | 1.097                      |                |                            |                |          |
| " D           | 7     | -    | 1.028                      |                |                            |                |          |
| " E           | 7     | -    | 1.046                      |                |                            |                |          |
| " F           | 7     | -    | 1.075                      |                |                            |                |          |
| " G           | 7     | -    | 1.079                      |                |                            |                |          |
| " H           | 7     | -    | 1.079                      |                |                            |                |          |
| " I           | 19    | -    | 1.028                      |                |                            |                |          |
| " IDUP        | 19    | -    | 1.025                      |                |                            |                |          |
| " IDPK        | 19    | -    | 1.028                      |                |                            |                |          |
| " J           | 7     | -    | 1.076                      |                |                            |                |          |
| " K           | 7     | -    | 1.046                      |                |                            |                |          |
| " L           | 7     | -    | 1.043                      |                |                            |                |          |
| " M           | 7     | -    | 1.059                      |                |                            |                |          |
| " N           | 7     | -    | 1.040                      |                |                            |                |          |
| " O           | 7     | -    | 1.092                      |                |                            |                |          |
| " P           | 7     | -    | 1.055                      |                |                            |                |          |
| " Q           | 7     | -    | 1.048                      |                |                            |                |          |
| " R           | 7     | -    | 1.070                      |                |                            |                |          |
| " S           | 7     | -    | 1.011                      |                |                            |                |          |
| " MB1         | -     | -    | -                          | ↓              |                            |                |          |
| " MBSPK       | -     | -    | -                          | 50.0           |                            |                |          |
|               |       |      |                            | 4-21-11 DM     |                            |                |          |

Chemical/Reagent ID:

HNO<sub>3</sub>: MP2086/IC167 HCl: I5951 H<sub>2</sub>O<sub>2</sub>: I6129 Tube Lot #: 1010191





# Digestion Log

Analyst: KM Date: 4/21/11  
 Matrix: Water Block ID: #5 Block Temp: 90°C Thermometer: MP7

| ARI Sample ID  | Btl # | pH<2 | Prep Code: <u>TWC</u>      |                | Prep Code:                 |                | Comments |
|--|-------|------|----------------------------|----------------|----------------------------|----------------|----------|
|  |       |      | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) |          |
| SS83 P   | 7     | ✓    | 50.0                       | 50.0           |                            |                |          |
| " MB2  | —     | ✓    | ↓                          | ↓              |                            |                |          |
| " MB2SPK   | —     | ✓    | ↓                          | ↓              |                            |                |          |
| SS71 T   | 1     | ✓    | ↓                          | ↓              |                            |                |          |
| " MB2  | —     | ✓    | ↓                          | ↓              |                            |                |          |
| " MB2SPK   | —     | ✓    | ↓                          | ↓              |                            |                |          |
| SS82 A   | 4     | ✓    | ↓                          | ↓              |                            |                |          |
| " MB   | —     | ✓    | ↓                          | ↓              |                            |                |          |
| " MBSPK  | —     | ✓    | 50.0                       | 50.0           |                            |                |          |
| <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;">           KM<br/>4/21/11         </div> |       |      |                            |                |                            |                |          |

Chemical/Reagent ID:

HNO<sub>3</sub>: I6167 HCl: MP2081 H<sub>2</sub>O<sub>2</sub>: — Tube Lot #: 1010191



# Corrective Actions Inorganic Analyses

|   |                                |
|---|--------------------------------|
| Criteria Flagged:   | ARI Job No.: <u>S571</u>       |
| Unacceptable Blank: <input type="checkbox"/>                | Date of Event: <u>4-27-11</u>  |
| Unacceptable Duplicate: <input checked="" type="checkbox"/> | Client ID: <u>Floyd Snider</u> |
| Unacceptable Spike: <input type="checkbox"/>                | Method/Element: <u>ICP</u>     |
| Unacceptable Reference: <input type="checkbox"/>            | Prep Code: <u>Sec</u>          |

**Details of Problem/Recommended Corrective Action:**

Pb greater than 1 EL DIFF in I, IDup  
 I 0.03023  
 + Dup 0.01902

**Samples Affected:**

**Corrective Action Taken:**

*OK*  
*and*

Analyst Initials: AA  
 Date: 4-27-11

Supervisor: [Signature]  
 Date: 4.28.11



**Metals Raw Data**  
**Run Logs, Calibrations, and Raw Data**

**ARI Job ID: SS71**



IEC Date: 3-14-11  
LR Date: 2-3-11

Analysis Date: 4-27-11

Analyst: JA  
Page: 1 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep. Code | Dilution | Comments |
|------------|-------------|---------------|------------|----------|----------|
|            |             | STD 0         |            |          | 2826-11  |
|            |             | 2             |            |          | -1       |
|            |             | 3             |            |          | -2       |
|            |             | 4             |            |          | -3       |
|            |             | 5             |            |          | -4       |
|            |             | ICV           |            |          | 2819-10  |
|            |             | ICB           |            |          |          |
|            |             | CR1           |            |          |          |
|            |             | ICSA          |            |          |          |
|            |             | ICSAB         |            |          |          |
|            |             | CCV1          |            |          |          |
|            |             | CCB1          |            |          |          |
|            |             | ST70 MB       | SEC        | 2        |          |
|            |             | ST42 MBZ      | LEN        | 5        |          |
|            |             | RT            |            |          |          |
|            |             | CT            |            |          |          |
|            |             | DT            |            |          |          |
|            |             | AtDup         |            |          | ✓        |
|            |             | At            |            |          |          |
|            |             | ALSplc        |            |          | ✓        |
|            |             | ST70 B        | SEC        | 2        |          |
|            |             | MBsplc        |            |          | ✓        |
|            |             | CCV2          |            |          |          |
|            |             | CCB2          |            |          |          |



IEC Date: \_\_\_\_\_ Analysis Date: 4-27-11 Analyst: M  
LR Date: \_\_\_\_\_ Page: 2 of 5

All corrections made by analyst unless otherwise noted. At 4-27-11

| Edit Label | Delete Data | ARI Sample ID       | Prep. Code | Dilution | Comments       |
|------------|-------------|---------------------|------------|----------|----------------|
|            |             | S571 MBZ            | TWC        |          |                |
|            |             | T.                  | ↓          |          |                |
|            |             | A                   | Swc        | 2        |                |
|            |             | B                   | ↓          | ↓        |                |
|            |             | C                   | ↓          | ↓        |                |
|            |             | IDup                | ↓          | ↓        | Pb > 12L D.I.F |
|            |             | I                   | ↓          | ↓        |                |
|            |             | Ispk                | ↓          | ↓        | ✓              |
| M          |             | M <del>I</del> Post | ↓          | ↓        |                |
|            |             | ↓ MBZspk            | TWC        |          | ✓              |
|            |             | CCV3                |            |          |                |
|            |             | CCB3                |            |          |                |
|            |             | S571 MB1            | Swc        | 2        |                |
|            |             | D                   | ↓          | ↓        |                |
|            |             | E                   | ↓          | ↓        |                |
|            |             | F                   | ↓          | ↓        |                |
|            |             | G                   | ↓          | ↓        |                |
|            |             | H                   | ↓          | ↓        |                |
|            |             | J                   | ↓          | ↓        |                |
|            |             | K                   | ↓          | ↓        |                |
|            |             | L                   | ↓          | ↓        |                |
|            |             | ↓ MB1spk            | ↓          | ↓        |                |
|            |             | CCV4                |            |          |                |
|            |             | CCB4                |            |          |                |



IEC Date: \_\_\_\_\_

Analysis Date: 4-27-11

Analyst: A

LR Date: \_\_\_\_\_

Page: 3 of 5

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep. Code | Dilution | Comments                     |
|------------|-------------|---------------|------------|----------|------------------------------|
|            |             | SS23 MBZ      | TWC        |          |                              |
|            | ✓           | SS71 I        | Suc        | Z        | confirms 1 <sup>st</sup> run |
|            | ✓           | I Dup         |            |          | ↓                            |
|            |             | N             |            |          |                              |
|            |             | O             |            |          |                              |
|            |             | P             |            |          |                              |
|            |             | Q             |            |          |                              |
|            |             | R             |            |          |                              |
|            |             | S             |            |          |                              |
|            |             | SS23 MBZ spl  | TWC        |          | ✓                            |
|            |             | CCV5          |            |          |                              |
|            |             | CCB5          |            |          |                              |
|            |             | SS23 MB1      | Suc        | Z        |                              |
|            |             | P             | TWC        |          |                              |
|            |             | A             | Suc        | Z        |                              |
|            |             | B             |            |          |                              |
|            |             | C             |            |          |                              |
|            |             | D             |            |          |                              |
|            |             | DDup          |            |          | ✓                            |
|            |             | O             |            |          |                              |
|            |             | C spl         |            |          | ✓                            |
|            |             | MB1 spl       |            |          | ✓                            |
|            |             | CCV6          |            |          |                              |
|            |             | CCB6          |            |          |                              |

*[Handwritten signature]*

**Metals Data Review Checklist**

Method: ICP ICP-MS GFA CVA

Analysis Date: 4-27-11

| <u>OPT 2</u>                                       | <u>Analyst</u><br><u>A 4-28</u> | <u>Peer</u><br><u>J 4-28-11</u> | <u>Comment</u>  |
|--|---------------------------------|---------------------------------|-----------------|
| <b>Analyst, Date, Method info</b>                  | ✓                               | ✓                               |                 |
| <b>Sample ID's</b>                                 | ✓                               | ✓                               |                 |
| <b>Standard/QC solution ID's recorded</b>          | ✓                               | ✓                               |                 |
| <b>Prep codes</b>                                  | ✓                               | ✓                               |                 |
| <b>Dilution factors</b>                            | ✓                               | ✓                               |                 |
| <b>Crossouts/Corrections/Deletions</b>             | ✓                               | ✓                               |                 |
| <b>Calibration</b>                                 |                                 |                                 |                 |
| <b>Blank &amp; Standard intensities</b>            | ✓                               | ✓                               |                 |
| <b>Standard deviations</b>                         | ✓                               | ✓                               |                 |
| <b>Curve fit</b>                                   | ✓                               | ✓                               |                 |
| <b>Calibration Verification</b>                    |                                 |                                 |                 |
| <b>ICV/CCV</b>                                     | ✓                               | ✓                               | <u>see log</u>  |
| <b>ICB/CCB</b>                                     | ✓                               | ✓                               |                 |
| <b>Samples</b>                                     |                                 |                                 |                 |
| <b>RSD's &amp; SD's</b>                            | ✓                               | ✓                               | <u>see log</u>  |
| <b>Internal Standards</b>                          | ✓                               | ✓                               |                 |
| <b>Carry-over</b>                                  | ✓                               | ✓                               |                 |
| <b>Method QC</b>                                   |                                 |                                 |                 |
| <b>CRI/CRA</b>                                     | ✓                               | ✓                               |                 |
| <b>ICSA/ICSAB</b>                                  | ✓                               | ✓                               |                 |
| <b>Post Spikes/Serial Dilutions</b>                | —                               | —                               |                 |
| <b>Analytic Spikes</b>                             | —                               | —                               |                 |
| <b>Matrix QC</b>                                   |                                 |                                 |                 |
| <b>SRM/LCS</b>                                     | ✓                               | ✓                               |                 |
| <b>Matrix Spikes</b>                               | ✓                               | ✓                               |                 |
| <b>Matrix Duplicates</b>                           | ✓                               | ✓                               | <u>SS71</u>     |
| <b>Method Blanks</b>                               | ✓                               | ✓                               |                 |
| <b>Data Distribution</b>                           |                                 |                                 |                 |
| <b>Requested elements/isotope identified</b>       | ✓                               | ✓                               |                 |
| <b>Correct samples identified for distribution</b> | ✓                               | ✓                               |                 |
| <b>Raw data match distributed data</b>             | ✓                               | ✓                               |                 |
| <b>Data filename correct</b>                       | ✓                               | ✓                               |                 |
| <b>Necessary Analysts Notes and CAP's</b>          | ✓                               | ✓                               | <u>C+ SS-11</u> |

Nebulizer Parameters: Hg ReAlign

Analyte Back Pressure Flow
All 206.0 kPa 0.75 L/min

4/27/2011 8:13:11 AM Hg ReAlign... Actual peak offset (nm): 0.004
Drift (nm): -0.000 Slit adjustment: 0

Analysis Begun

Start Time: 4/27/2011 8:15:45 AM Plasma On Time: 4/27/2011 7:27:25 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 7300 DV, S/N 077C8121202Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\BLKS.sif
Batch ID:
Results Data Set: BLANKS
Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded

Method Name: 7300bcESI2FAST Method Last Saved: 4/22/2011 3:43:08 PM
IEC File: IEC7AMIN.iec MSF File:
Method Description: 12Axial Elements

Table with 6 columns: Analyte, Calibration Equation, Processing, View, Internal Standard, IEC. Lists elements from Ag to Zn and ScA/ScR with their respective calibration and processing details.

Sequence No.: 1
Sample ID: B1

Autosampler Location: 1
Date Collected: 4/27/2011 8:15:52 AM
Data Type: Original

Dilution: 1X
User canceled analysis.

Analysis Begun

Start Time: 4/27/2011 8:17:47 AM Plasma On Time: 4/27/2011 7:27:25 AM

Handwritten signature and date: AT 4-27-11

=====  
Analysis Begun

Start Time: 4/27/2011 8:43:45 AM

Plasma On Time: 4/27/2011 7:27:25 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: I2110427

Results Library: C:\pe\metals\Results\Results.mdb

=====  
Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 4/27/2011 8:43:46 AM

Data Type: Original

-----  
Nebulizer Parameters: Calib Blank 1

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 207.0 kPa     | 0.75 L/min |

-----  
Mean Data: Calib Blank 1

| Analyte     | Mean Corrected |          |        | Calib  |       |
|-------------|----------------|----------|--------|--------|-------|
|             | Intensity      | Std.Dev. | RSD    | Conc.  | Units |
| ScA 357.253 | 2231506.8      | 19668.00 | 0.88%  | 100.0  | %     |
| ScR 361.383 | 397969.8       | 2575.58  | 0.65%  | 100.0  | %     |
| Ag 328.068† | -1572.6        | 9.76     | 0.62%  | [0.00] | mg/L  |
| Al 308.215† | -156.9         | 6.94     | 4.42%  | [0.00] | mg/L  |
| As 188.979† | -14.5          | 3.00     | 20.68% | [0.00] | mg/L  |
| B 249.677†  | 19.2           | 9.73     | 50.74% | [0.00] | mg/L  |
| Ba 233.527† | 46.9           | 1.42     | 3.04%  | [0.00] | mg/L  |
| Be 313.042† | 969.2          | 14.36    | 1.48%  | [0.00] | mg/L  |
| Ca 317.933† | -375.7         | 10.78    | 2.87%  | [0.00] | mg/L  |
| Cd 228.802† | 252.5          | 7.75     | 3.07%  | [0.00] | mg/L  |
| Co 228.616† | -124.2         | 2.30     | 1.85%  | [0.00] | mg/L  |
| Cr 267.716† | -47.5          | 5.17     | 10.90% | [0.00] | mg/L  |
| Cu 324.752† | 1637.5         | 18.24    | 1.11%  | [0.00] | mg/L  |
| Fe 273.955† | -26.8          | 2.04     | 7.60%  | [0.00] | mg/L  |
| K 766.490†  | -646.0         | 18.64    | 2.89%  | [0.00] | mg/L  |
| Mg 279.077† | -200.2         | 10.21    | 5.10%  | [0.00] | mg/L  |
| Mn 257.610† | 101.0          | 5.86     | 5.80%  | [0.00] | mg/L  |
| Mo 202.031† | 44.1           | 3.19     | 7.24%  | [0.00] | mg/L  |
| Na 589.592† | 104.8          | 30.06    | 28.69% | [0.00] | mg/L  |
| Na 330.237† | -238.7         | 12.19    | 5.11%  | [0.00] | mg/L  |
| Ni 231.604† | -24.1          | 7.74     | 32.15% | [0.00] | mg/L  |
| Pb 220.353† | -180.9         | 0.71     | 0.40%  | [0.00] | mg/L  |
| Sb 206.836† | 19.1           | 2.01     | 10.55% | [0.00] | mg/L  |
| Se 196.026† | -78.0          | 0.91     | 1.16%  | [0.00] | mg/L  |
| Si 288.158† | 96.4           | 7.53     | 7.81%  | [0.00] | mg/L  |
| Sn 189.927† | -7.3           | 4.85     | 66.55% | [0.00] | mg/L  |
| Sr 421.552† | -765.2         | 20.87    | 2.73%  | [0.00] | mg/L  |
| Ti 334.903† | 590.5          | 31.93    | 5.41%  | [0.00] | mg/L  |
| Tl 190.801† | -18.1          | 5.62     | 31.05% | [0.00] | mg/L  |
| V 292.402†  | -201.4         | 5.67     | 2.81%  | [0.00] | mg/L  |
| Zn 206.200† | -4.0           | 0.89     | 22.05% | [0.00] | mg/L  |

Sequence No.: 2  
Sample ID: STD2

Autosampler Location: 2  
Date Collected: 4/27/2011 8:47:58 AM  
Data Type: Original

## Nebulizer Parameters: STD2

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 207.0 kPa     | 0.75 L/min |

## Mean Data: STD2

| Analyte     | Mean Corrected |          |       | Calib |       |
|-------------|----------------|----------|-------|-------|-------|
|             | Intensity      | Std.Dev. | RSD   | Conc. | Units |
| ScA 357.253 | 2249793.2      | 20064.90 | 0.89% | 100.8 | %     |
| ScR 361.383 | 401342.2       | 2131.49  | 0.53% | 100.8 | %     |
| Ba 233.527† | 71889.5        | 240.18   | 0.33% | [10]  | mg/L  |
| Cd 228.802† | 278238.5       | 1324.09  | 0.48% | [10]  | mg/L  |
| Co 228.616† | 315849.4       | 1057.78  | 0.33% | [10]  | mg/L  |
| Cr 267.716† | 79782.9        | 210.46   | 0.26% | [10]  | mg/L  |
| Cu 324.752† | 2317248.7      | 6265.11  | 0.27% | [10]  | mg/L  |
| Mn 257.610† | 471598.0       | 2259.92  | 0.48% | [10]  | mg/L  |
| V 292.402†  | 1533834.8      | 9161.86  | 0.60% | [10]  | mg/L  |



Sequence No.: 3  
Sample ID: STD3

Autosampler Location: 3  
Date Collected: 4/27/2011 8:49:40 AM  
Data Type: Original

## Nebulizer Parameters: STD3

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 206.0 kPa     | 0.75 L/min |

## Mean Data: STD3

| Analyte     | Mean Corrected |          |       | Calib |       |
|-------------|----------------|----------|-------|-------|-------|
|             | Intensity      | Std.Dev. | RSD   | Conc. | Units |
| ScA 357.253 | 2264838.2      | 2147.54  | 0.09% | 101.5 | %     |
| ScR 361.383 | 397916.4       | 3979.55  | 1.00% | 99.99 | %     |
| Ag 328.068† | 185496.3       | 809.95   | 0.44% | [1.0] | mg/L  |
| As 188.979† | 14205.3        | 136.99   | 0.96% | [10]  | mg/L  |
| B 249.677†  | 55522.4        | 230.10   | 0.41% | [10]  | mg/L  |
| Be 313.042† | 4387680.8      | 32153.78 | 0.73% | [5.0] | mg/L  |
| Na 589.592† | 627716.4       | 3721.42  | 0.59% | [50]  | mg/L  |
| Ni 231.604† | 36430.3        | 312.63   | 0.86% | [10]  | mg/L  |
| Pb 220.353† | 83081.3        | 629.79   | 0.76% | [10]  | mg/L  |
| Se 196.026† | 12277.4        | 80.93    | 0.66% | [10]  | mg/L  |
| Sr 421.552† | 4326253.8      | 31833.48 | 0.74% | [5]   | mg/L  |
| Tl 190.801† | 16558.2        | 108.47   | 0.66% | [10]  | mg/L  |
| Zn 206.200† | 39921.1        | 232.39   | 0.58% | [10]  | mg/L  |

Sequence No.: 4  
Sample ID: STD4

Autosampler Location: 4  
Date Collected: 4/27/2011 8:52:10 AM  
Data Type: Original

Nebulizer Parameters: STD4

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 207.0 kPa     | 0.75 L/min |

Mean Data: STD4

| Analyte     | Mean Corrected Intensity | Std.Dev. | RSD   | Conc. | Units |
|-------------|--------------------------|----------|-------|-------|-------|
| ScA 357.253 | 2303940.3                | 5513.15  | 0.24% | 103.2 | %     |
| ScR 361.383 | 409801.6                 | 4590.60  | 1.12% | 103.0 | %     |
| Mo 202.031† | 160281.3                 | 908.20   | 0.57% | [10]  | mg/L  |
| Sb 206.836† | 24977.3                  | 197.37   | 0.79% | [10]  | mg/L  |
| Si 288.158† | 16573.5                  | 138.75   | 0.84% | [10]  | mg/L  |
| Sn 189.927† | 51008.1                  | 201.99   | 0.40% | [10]  | mg/L  |
| Ti 334.903† | 311737.7                 | 762.33   | 0.24% | [10]  | mg/L  |

Sequence No.: 5  
Sample ID: STD5

Autosampler Location: 5  
Date Collected: 4/27/2011 8:54:22 AM  
Data Type: Original

## Nebulizer Parameters: STD5

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 207.0 kPa     | 0.75 L/min |

## Mean Data: STD5

| Analyte     | Mean Corrected Intensity | Std.Dev. | RSD   | Conc. | Units |
|-------------|--------------------------|----------|-------|-------|-------|
| ScA 357.253 | 2126870.8                | 14072.48 | 0.66% | 95.31 | %     |
| ScR 361.383 | 403875.8                 | 1571.56  | 0.39% | 101.5 | %     |
| Al 308.215† | 41861.8                  | 54.93    | 0.13% | [30]  | mg/L  |
| Ca 317.933† | 348747.7                 | 1328.53  | 0.38% | [30]  | mg/L  |
| Fe 273.955† | 127914.9                 | 542.29   | 0.42% | [100] | mg/L  |
| K 766.490†  | 183912.0                 | 123.83   | 0.07% | [100] | mg/L  |
| Mg 279.077† | 37702.4                  | 164.80   | 0.44% | [30]  | mg/L  |
| Na 330.237† | 2792.0                   | 14.01    | 0.50% | [100] | mg/L  |

## Calibration Summary

| Analyte    | Stds. | Equation   | Intercept | Slope  | Curvature | Corr. Coef. | Reslope |
|------------|-------|------------|-----------|--------|-----------|-------------|---------|
| Ag 328.068 | 1     | Lin Thru 0 | 0.0       | 185500 | 0.00000   | 1.000000    |         |
| Al 308.215 | 1     | Lin Thru 0 | 0.0       | 1395   | 0.00000   | 1.000000    |         |
| As 188.979 | 1     | Lin Thru 0 | 0.0       | 1421   | 0.00000   | 1.000000    |         |
| B 249.677  | 1     | Lin Thru 0 | 0.0       | 5552   | 0.00000   | 1.000000    |         |
| Ba 233.527 | 1     | Lin Thru 0 | 0.0       | 7189   | 0.00000   | 1.000000    |         |
| Be 313.042 | 1     | Lin Thru 0 | 0.0       | 877500 | 0.00000   | 1.000000    |         |
| Ca 317.933 | 1     | Lin Thru 0 | 0.0       | 11620  | 0.00000   | 1.000000    |         |
| Cd 228.802 | 1     | Lin Thru 0 | 0.0       | 27820  | 0.00000   | 1.000000    |         |
| Co 228.616 | 1     | Lin Thru 0 | 0.0       | 31580  | 0.00000   | 1.000000    |         |
| Cr 267.716 | 1     | Lin Thru 0 | 0.0       | 7978   | 0.00000   | 1.000000    |         |
| Cu 324.752 | 1     | Lin Thru 0 | 0.0       | 231700 | 0.00000   | 1.000000    |         |
| Fe 273.955 | 1     | Lin Thru 0 | 0.0       | 1279   | 0.00000   | 1.000000    |         |
| K 766.490  | 1     | Lin Thru 0 | 0.0       | 1839   | 0.00000   | 1.000000    |         |
| Mg 279.077 | 1     | Lin Thru 0 | 0.0       | 1257   | 0.00000   | 1.000000    |         |
| Mn 257.610 | 1     | Lin Thru 0 | 0.0       | 47160  | 0.00000   | 1.000000    |         |
| Mo 202.031 | 1     | Lin Thru 0 | 0.0       | 16030  | 0.00000   | 1.000000    |         |
| Na 589.592 | 1     | Lin Thru 0 | 0.0       | 12550  | 0.00000   | 1.000000    |         |
| Na 330.237 | 1     | Lin Thru 0 | 0.0       | 27.92  | 0.00000   | 1.000000    |         |
| Ni 231.604 | 1     | Lin Thru 0 | 0.0       | 3643   | 0.00000   | 1.000000    |         |
| Pb 220.353 | 1     | Lin Thru 0 | 0.0       | 8308   | 0.00000   | 1.000000    |         |
| Sb 206.836 | 1     | Lin Thru 0 | 0.0       | 2498   | 0.00000   | 1.000000    |         |
| Se 196.026 | 1     | Lin Thru 0 | 0.0       | 1228   | 0.00000   | 1.000000    |         |
| Si 288.158 | 1     | Lin Thru 0 | 0.0       | 1657   | 0.00000   | 1.000000    |         |
| Sn 189.927 | 1     | Lin Thru 0 | 0.0       | 5101   | 0.00000   | 1.000000    |         |
| Sr 421.552 | 1     | Lin Thru 0 | 0.0       | 865300 | 0.00000   | 1.000000    |         |
| Ti 334.903 | 1     | Lin Thru 0 | 0.0       | 31170  | 0.00000   | 1.000000    |         |
| Tl 190.801 | 1     | Lin Thru 0 | 0.0       | 1656   | 0.00000   | 1.000000    |         |
| V 292.402  | 1     | Lin Thru 0 | 0.0       | 153400 | 0.00000   | 1.000000    |         |
| Zn 206.200 | 1     | Lin Thru 0 | 0.0       | 3992   | 0.00000   | 1.000000    |         |

=====  
Analysis Begun

Start Time: 4/27/2011 8:58:47 AM

Plasma On Time: 4/27/2011 7:27:25 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C8121202 Autosampler Model: AS-93plus

Sample Information File: C:\pe\metals\Sample Information\CRIS11.sif

Batch ID:

Results Data Set: I2110427

Results Library: C:\pe\metals\Results\Results.mdb

=====  
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 4/27/2011 8:58:48 AM

Data Type: Original

Dilution: 1X

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Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

-----  
Mean Data: CV

| Analyte     | Mean Corrected Intensity | Conc. Units | Calib. Std.Dev. | Sample Conc. Units | Std.Dev. | RSD   |
|-------------|--------------------------|-------------|-----------------|--------------------|----------|-------|
| ScA 357.253 | 2300825.1                | 103.1 %     | 0.64            |                    |          | 0.62% |
| ScR 361.383 | 404590.4                 | 101.7 %     | 0.63            |                    |          | 0.62% |
| Ag 328.068† | 194950.3                 | 1.051 mg/L  | 0.0039          | 1.051 mg/L         | 0.0039   | 0.37% |
| Al 308.215† | 2823.2                   | 1.989 mg/L  | 0.0160          | 1.989 mg/L         | 0.0160   | 0.81% |
| As 188.979† | 2885.8                   | 2.038 mg/L  | 0.0120          | 2.038 mg/L         | 0.0120   | 0.59% |
| B 249.677†  | 5729.3                   | 1.030 mg/L  | 0.0066          | 1.030 mg/L         | 0.0066   | 0.64% |
| Ba 233.527† | 7221.2                   | 1.004 mg/L  | 0.0057          | 1.004 mg/L         | 0.0057   | 0.57% |
| Be 313.042† | 897832.0                 | 1.023 mg/L  | 0.0033          | 1.023 mg/L         | 0.0033   | 0.32% |
| Ca 317.933† | 23771.7                  | 2.045 mg/L  | 0.0128          | 2.045 mg/L         | 0.0128   | 0.63% |
| Cd 228.802† | 29186.4                  | 1.042 mg/L  | 0.0046          | 1.042 mg/L         | 0.0046   | 0.44% |
| Co 228.616† | 31254.2                  | 0.9878 mg/L | 0.00490         | 0.9878 mg/L        | 0.00490  | 0.50% |
| Cr 267.716† | 8022.0                   | 1.005 mg/L  | 0.0044          | 1.005 mg/L         | 0.0044   | 0.44% |
| Cu 324.752† | 234659.0                 | 1.013 mg/L  | 0.0051          | 1.013 mg/L         | 0.0051   | 0.50% |
| Fe 273.955† | 2616.3                   | 2.040 mg/L  | 0.0124          | 2.040 mg/L         | 0.0124   | 0.61% |
| K 766.490†  | 37253.3                  | 20.26 mg/L  | 0.072           | 20.26 mg/L         | 0.072    | 0.35% |
| Mg 279.077† | 2486.5                   | 1.982 mg/L  | 0.0170          | 1.982 mg/L         | 0.0170   | 0.86% |
| Mn 257.610† | 47198.5                  | 1.001 mg/L  | 0.0042          | 1.001 mg/L         | 0.0042   | 0.42% |
| Mo 202.031† | 15986.2                  | 0.9973 mg/L | 0.00560         | 0.9973 mg/L        | 0.00560  | 0.56% |
| Na 589.592† | 652506.5                 | 51.97 mg/L  | 0.196           | 51.97 mg/L         | 0.196    | 0.38% |
| Na 330.237† | 1437.2                   | 51.54 mg/L  | 0.030           | 51.54 mg/L         | 0.030    | 0.06% |
| Ni 231.604† | 3830.9                   | 1.053 mg/L  | 0.0021          | 1.053 mg/L         | 0.0021   | 0.20% |
| Pb 220.353† | 16578.6                  | 1.997 mg/L  | 0.0026          | 1.997 mg/L         | 0.0026   | 0.13% |
| Sb 206.836† | 5063.5                   | 2.034 mg/L  | 0.0114          | 2.034 mg/L         | 0.0114   | 0.56% |
| Se 196.026† | 2539.4                   | 2.068 mg/L  | 0.0011          | 2.068 mg/L         | 0.0011   | 0.05% |
| Si 288.158† | 3415.6                   | 2.067 mg/L  | 0.0098          | 2.067 mg/L         | 0.0098   | 0.47% |
| Sn 189.927† | 5043.0                   | 0.9908 mg/L | 0.00476         | 0.9908 mg/L        | 0.00476  | 0.48% |
| Sr 421.552† | 893383.2                 | 1.033 mg/L  | 0.0030          | 1.033 mg/L         | 0.0030   | 0.29% |
| Ti 334.903† | 30275.8                  | 0.9695 mg/L | 0.00552         | 0.9695 mg/L        | 0.00552  | 0.57% |
| Tl 190.801† | 3359.3                   | 2.029 mg/L  | 0.0114          | 2.029 mg/L         | 0.0114   | 0.56% |
| V 292.402†  | 152306.5                 | 0.9981 mg/L | 0.00486         | 0.9981 mg/L        | 0.00486  | 0.49% |
| Zn 206.200† | 4056.4                   | 1.016 mg/L  | 0.0051          | 1.016 mg/L         | 0.0051   | 0.50% |

Sequence No.: 2  
 Sample ID: CB

Autosampler Location: 1  
 Date Collected: 4/27/2011 9:02:03 AM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow  
 All 208.0 kPa 0.75 L/min

Mean Data: CB

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample      |          | RSD              |
|-------------|----------------|----------|-----------------------|----------|-------------|----------|------------------|
|             | Intensity      |          |                       |          | Conc. Units | Std.Dev. |                  |
| ScA 357.253 | 2259979.7      |          | 101.3 %               | 0.21     |             |          | 0.21%            |
| ScR 361.383 | 410734.4       |          | 103.2 %               | 1.46     |             |          | 1.41%            |
| Ag 328.068† | 35.0           | 0.00019  | mg/L                  | 0.000439 | 0.00019     | mg/L     | 0.000439 232.64% |
| Al 308.215† | -2.2           | -0.00157 | mg/L                  | 0.007026 | -0.00157    | mg/L     | 0.007026 446.45% |
| As 188.979† | 2.7            | 0.00192  | mg/L                  | 0.001978 | 0.00192     | mg/L     | 0.001978 102.99% |
| B 249.677†  | 22.5           | 0.00406  | mg/L                  | 0.000974 | 0.00406     | mg/L     | 0.000974 24.01%  |
| Ba 233.527† | 5.1            | 0.00071  | mg/L                  | 0.000314 | 0.00071     | mg/L     | 0.000314 44.34%  |
| Be 313.042† | 87.5           | 0.00010  | mg/L                  | 0.000031 | 0.00010     | mg/L     | 0.000031 31.48%  |
| Ca 317.933† | 21.1           | 0.00181  | mg/L                  | 0.001129 | 0.00181     | mg/L     | 0.001129 62.26%  |
| Cd 228.802† | 4.3            | 0.00015  | mg/L                  | 0.000153 | 0.00015     | mg/L     | 0.000153 103.61% |
| Co 228.616† | 8.2            | 0.00026  | mg/L                  | 0.000111 | 0.00026     | mg/L     | 0.000111 42.95%  |
| Cr 267.716† | -4.9           | -0.00061 | mg/L                  | 0.000340 | -0.00061    | mg/L     | 0.000340 55.43%  |
| Cu 324.752† | 22.1           | 0.00010  | mg/L                  | 0.000158 | 0.00010     | mg/L     | 0.000158 165.52% |
| Fe 273.955† | 3.7            | 0.00286  | mg/L                  | 0.001679 | 0.00286     | mg/L     | 0.001679 58.66%  |
| K 766.490†  | 59.3           | 0.03225  | mg/L                  | 0.027555 | 0.03225     | mg/L     | 0.027555 85.46%  |
| Mg 279.077† | 4.9            | 0.00391  | mg/L                  | 0.002893 | 0.00391     | mg/L     | 0.002893 73.92%  |
| Mn 257.610† | 8.0            | 0.00017  | mg/L                  | 0.000107 | 0.00017     | mg/L     | 0.000107 63.28%  |
| Mo 202.031† | -4.3           | -0.00027 | mg/L                  | 0.000290 | -0.00027    | mg/L     | 0.000290 107.20% |
| Na 589.592† | 20.1           | 0.00160  | mg/L                  | 0.003830 | 0.00160     | mg/L     | 0.003830 239.02% |
| Na 330.237† | 20.0           | 0.7164   | mg/L                  | 0.26853  | 0.7164      | mg/L     | 0.26853 37.48%   |
| Ni 231.604† | 5.4            | 0.00149  | mg/L                  | 0.001007 | 0.00149     | mg/L     | 0.001007 67.42%  |
| Pb 220.353† | 3.9            | 0.00047  | mg/L                  | 0.000560 | 0.00047     | mg/L     | 0.000560 119.59% |
| Sb 206.836† | -0.7           | -0.00027 | mg/L                  | 0.002041 | -0.00027    | mg/L     | 0.002041 753.02% |
| Se 196.026† | 3.4            | 0.00273  | mg/L                  | 0.005611 | 0.00273     | mg/L     | 0.005611 205.58% |
| Si 288.158† | 2.1            | 0.00127  | mg/L                  | 0.006851 | 0.00127     | mg/L     | 0.006851 538.84% |
| Sn 189.927† | 4.1            | 0.00080  | mg/L                  | 0.000569 | 0.00080     | mg/L     | 0.000569 71.37%  |
| Sr 421.552† | 122.0          | 0.00014  | mg/L                  | 0.000044 | 0.00014     | mg/L     | 0.000044 30.90%  |
| Ti 334.903† | -10.6          | -0.00034 | mg/L                  | 0.000681 | -0.00034    | mg/L     | 0.000681 201.15% |
| Tl 190.801† | 2.6            | 0.00156  | mg/L                  | 0.001481 | 0.00156     | mg/L     | 0.001481 94.75%  |
| V 292.402†  | 29.4           | 0.00019  | mg/L                  | 0.000159 | 0.00019     | mg/L     | 0.000159 84.55%  |
| Zn 206.200† | 0.9            | 0.00023  | mg/L                  | 0.000545 | 0.00023     | mg/L     | 0.000545 241.03% |

Sequence No.: 3  
Sample ID: CRI

Autosampler Location: 301  
Date Collected: 4/27/2011 9:06:15 AM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte Back Pressure Flow  
All 207.0 kPa 0.75 L/min

Mean Data: CRI

| Analyte     | Mean Corrected |         | Calib. |          | Sample  |       | RSD             |
|-------------|----------------|---------|--------|----------|---------|-------|-----------------|
|             | Intensity      | Conc.   | Units  | Std.Dev. | Conc.   | Units |                 |
| ScA 357.253 | 2263466.6      | 101.4   | %      | 1.38     |         |       | 1.36%           |
| ScR 361.383 | 409273.6       | 102.8   | %      | 0.76     |         |       | 0.74%           |
| Ag 328.068† | 663.4          | 0.00358 | mg/L   | 0.000164 | 0.00358 | mg/L  | 0.000164 4.59%  |
| Al 308.215† | 77.6           | 0.05548 | mg/L   | 0.013073 | 0.05548 | mg/L  | 0.013073 23.56% |
| As 188.979† | 74.5           | 0.05247 | mg/L   | 0.001023 | 0.05247 | mg/L  | 0.001023 1.95%  |
| B 249.677†  | 128.5          | 0.02315 | mg/L   | 0.001053 | 0.02315 | mg/L  | 0.001053 4.55%  |
| Ba 233.527† | 21.7           | 0.00301 | mg/L   | 0.000403 | 0.00301 | mg/L  | 0.000403 13.36% |
| Be 313.042† | 910.9          | 0.00104 | mg/L   | 0.000016 | 0.00104 | mg/L  | 0.000016 1.54%  |
| Ca 317.933† | 601.5          | 0.05174 | mg/L   | 0.000356 | 0.05174 | mg/L  | 0.000356 0.69%  |
| Cd 228.802† | 67.4           | 0.00224 | mg/L   | 0.000106 | 0.00224 | mg/L  | 0.000106 4.74%  |
| Co 228.616† | 100.4          | 0.00317 | mg/L   | 0.000146 | 0.00317 | mg/L  | 0.000146 4.62%  |
| Cr 267.716† | 37.0           | 0.00463 | mg/L   | 0.000284 | 0.00463 | mg/L  | 0.000284 6.13%  |
| Cu 324.752† | 470.4          | 0.00203 | mg/L   | 0.000191 | 0.00203 | mg/L  | 0.000191 9.38%  |
| Fe 273.955† | 72.7           | 0.05683 | mg/L   | 0.001925 | 0.05683 | mg/L  | 0.001925 3.39%  |
| K 766.490†  | 992.5          | 0.5397  | mg/L   | 0.02469  | 0.5397  | mg/L  | 0.02469 4.57%   |
| Mg 279.077† | 78.7           | 0.06259 | mg/L   | 0.001432 | 0.06259 | mg/L  | 0.001432 2.29%  |
| Mn 257.610† | 49.1           | 0.00105 | mg/L   | 0.000057 | 0.00105 | mg/L  | 0.000057 5.45%  |
| Mo 202.031† | 75.5           | 0.00471 | mg/L   | 0.000296 | 0.00471 | mg/L  | 0.000296 6.28%  |
| Na 589.592† | 6475.2         | 0.5158  | mg/L   | 0.00400  | 0.5158  | mg/L  | 0.00400 0.78%   |
| Na 330.237† | 19.7           | 0.7033  | mg/L   | 0.40860  | 0.7033  | mg/L  | 0.40860 58.09%  |
| Ni 231.604† | 40.5           | 0.01115 | mg/L   | 0.000570 | 0.01115 | mg/L  | 0.000570 5.11%  |
| Pb 220.353† | 186.3          | 0.02244 | mg/L   | 0.000148 | 0.02244 | mg/L  | 0.000148 0.66%  |
| Sb 206.836† | 130.7          | 0.05245 | mg/L   | 0.001088 | 0.05245 | mg/L  | 0.001088 2.07%  |
| Se 196.026† | 69.1           | 0.05628 | mg/L   | 0.002997 | 0.05628 | mg/L  | 0.002997 5.33%  |
| Si 288.158† | 115.6          | 0.06981 | mg/L   | 0.005346 | 0.06981 | mg/L  | 0.005346 7.66%  |
| Sn 189.927† | 58.2           | 0.01145 | mg/L   | 0.000421 | 0.01145 | mg/L  | 0.000421 3.68%  |
| Sr 421.552† | 980.7          | 0.00113 | mg/L   | 0.000029 | 0.00113 | mg/L  | 0.000029 2.59%  |
| Ti 334.903† | 146.2          | 0.00467 | mg/L   | 0.000269 | 0.00467 | mg/L  | 0.000269 5.76%  |
| Tl 190.801† | 87.0           | 0.05258 | mg/L   | 0.002251 | 0.05258 | mg/L  | 0.002251 4.28%  |
| V 292.402†  | 470.3          | 0.00309 | mg/L   | 0.000221 | 0.00309 | mg/L  | 0.000221 7.15%  |
| Zn 206.200† | 43.1           | 0.01080 | mg/L   | 0.000345 | 0.01080 | mg/L  | 0.000345 3.19%  |

Sequence No.: 4  
Sample ID: ICSA

Autosampler Location: 302  
Date Collected: 4/27/2011 9:10:27 AM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow  
All 207.0 kPa 0.75 L/min

Mean Data: ICSA

| Analyte     | Mean Corrected |          |              | Std.Dev. | Sample   |       |          | RSD     |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    | Calib. Units |          | Conc.    | Units | Std.Dev. |         |
| ScA 357.253 | 2249823.1      | 100.8    | %            | 0.42     |          |       |          | 0.41%   |
| ScR 361.383 | 397258.5       | 99.82    | %            | 3.318    |          |       |          | 3.32%   |
| Ag 328.068† | 38.8           | 0.00021  | mg/L         | 0.000038 | 0.00021  | mg/L  | 0.000038 | 18.08%  |
| Al 308.215† | 281002.2       | 201.4    | mg/L         | 1.00     | 201.4    | mg/L  | 1.00     | 0.50%   |
| As 188.979† | 41.9           | 0.02080  | mg/L         | 0.005504 | 0.02080  | mg/L  | 0.005504 | 26.47%  |
| B 249.677†  | -35.7          | -0.00644 | mg/L         | 0.000765 | -0.00644 | mg/L  | 0.000765 | 11.88%  |
| Ba 233.527† | 84.9           | -0.00100 | mg/L         | 0.000871 | -0.00100 | mg/L  | 0.000871 | 87.10%  |
| Be 313.042† | 74.2           | 0.00008  | mg/L         | 0.000040 | 0.00008  | mg/L  | 0.000040 | 52.65%  |
| Ca 317.933† | 1148621.9      | 98.81    | mg/L         | 0.247    | 98.81    | mg/L  | 0.247    | 0.25%   |
| Cd 228.802† | 31.0           | 0.00101  | mg/L         | 0.000136 | 0.00101  | mg/L  | 0.000136 | 13.43%  |
| Co 228.616† | 43.2           | 0.00135  | mg/L         | 0.000127 | 0.00135  | mg/L  | 0.000127 | 9.44%   |
| Cr 267.716† | -13.8          | -0.00111 | mg/L         | 0.000190 | -0.00111 | mg/L  | 0.000190 | 17.10%  |
| Cu 324.752† | -2476.6        | -0.00125 | mg/L         | 0.000050 | -0.00125 | mg/L  | 0.000050 | 3.97%   |
| Fe 273.955† | 251859.3       | 196.9    | mg/L         | 1.45     | 196.9    | mg/L  | 1.45     | 0.74%   |
| K 766.490†  | 84.1           | 0.04573  | mg/L         | 0.003717 | 0.04573  | mg/L  | 0.003717 | 8.13%   |
| Mg 279.077† | 124567.7       | 99.03    | mg/L         | 0.404    | 99.03    | mg/L  | 0.404    | 0.41%   |
| Mn 257.610† | 22.9           | 0.00039  | mg/L         | 0.000043 | 0.00039  | mg/L  | 0.000043 | 11.06%  |
| Mo 202.031† | 79.2           | 0.00311  | mg/L         | 0.000439 | 0.00311  | mg/L  | 0.000439 | 14.14%  |
| Na 589.592† | -107.1         | -0.00853 | mg/L         | 0.005960 | -0.00853 | mg/L  | 0.005960 | 69.85%  |
| Na 330.237† | 35.3           | 1.269    | mg/L         | 0.3997   | 1.269    | mg/L  | 0.3997   | 31.50%  |
| Ni 231.604† | 14.2           | 0.00389  | mg/L         | 0.001047 | 0.00389  | mg/L  | 0.001047 | 26.92%  |
| Pb 220.353† | -266.6         | -0.00434 | mg/L         | 0.000354 | -0.00434 | mg/L  | 0.000354 | 8.15%   |
| Sb 206.836† | 5.2            | 0.00193  | mg/L         | 0.003384 | 0.00193  | mg/L  | 0.003384 | 175.53% |
| Se 196.026† | 60.0           | 0.02542  | mg/L         | 0.000339 | 0.02542  | mg/L  | 0.000339 | 1.34%   |
| Si 288.158† | -30.5          | -0.00652 | mg/L         | 0.008197 | -0.00652 | mg/L  | 0.008197 | 125.62% |
| Sn 189.927† | -108.9         | 0.00484  | mg/L         | 0.001319 | 0.00484  | mg/L  | 0.001319 | 27.26%  |
| Sr 421.552† | 3391.4         | 0.00392  | mg/L         | 0.000064 | 0.00392  | mg/L  | 0.000064 | 1.64%   |
| Ti 334.903† | 406.6          | -0.00411 | mg/L         | 0.001335 | -0.00411 | mg/L  | 0.001335 | 32.50%  |
| Tl 190.801† | -25.3          | 0.01130  | mg/L         | 0.004108 | 0.01130  | mg/L  | 0.004108 | 36.36%  |
| V 292.402†  | 2685.8         | 0.00134  | mg/L         | 0.000045 | 0.00134  | mg/L  | 0.000045 | 3.32%   |
| Zn 206.200† | 15.1           | 0.00377  | mg/L         | 0.000281 | 0.00377  | mg/L  | 0.000281 | 7.45%   |

Sequence No.: 5  
Sample ID: ICSAB

Autosampler Location: 303  
Date Collected: 4/27/2011 9:14:41 AM  
Data Type: Original

Dilution: 1X

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Nebulizer Parameters: ICSAB

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 209.0 kPa     | 0.75 L/min |

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Mean Data: ICSAB

| Analyte     | Mean Corrected |          | Calib. |          | Sample   |       | RSD      |        |
|-------------|----------------|----------|--------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    | Units  | Std.Dev. | Conc.    | Units |          |        |
| ScA 357.253 | 2306735.4      | 103.4    | %      | 0.52     |          |       | 0.50%    |        |
| ScR 361.383 | 407884.5       | 102.5    | %      | 2.53     |          |       | 2.47%    |        |
| Ag 328.068† | 191447.0       | 1.032    | mg/L   | 0.0030   | 1.032    | mg/L  | 0.0030   | 0.29%  |
| Al 308.215† | 280857.5       | 201.3    | mg/L   | 0.64     | 201.3    | mg/L  | 0.64     | 0.32%  |
| As 188.979† | 1470.1         | 1.026    | mg/L   | 0.0084   | 1.026    | mg/L  | 0.0084   | 0.82%  |
| B 249.677†  | -27.9          | -0.00722 | mg/L   | 0.000177 | -0.00722 | mg/L  | 0.000177 | 2.45%  |
| Ba 233.527† | 7330.8         | 1.006    | mg/L   | 0.0217   | 1.006    | mg/L  | 0.0217   | 2.16%  |
| Be 313.042† | 901868.4       | 1.027    | mg/L   | 0.0023   | 1.027    | mg/L  | 0.0023   | 0.23%  |
| Ca 317.933† | 1157054.3      | 99.53    | mg/L   | 0.259    | 99.53    | mg/L  | 0.259    | 0.26%  |
| Cd 228.802† | 27655.1        | 0.9907   | mg/L   | 0.00153  | 0.9907   | mg/L  | 0.00153  | 0.15%  |
| Co 228.616† | 29049.3        | 0.9193   | mg/L   | 0.00212  | 0.9193   | mg/L  | 0.00212  | 0.23%  |
| Cr 267.716† | 8146.5         | 1.021    | mg/L   | 0.0215   | 1.021    | mg/L  | 0.0215   | 2.10%  |
| Cu 324.752† | 231203.7       | 1.007    | mg/L   | 0.0004   | 1.007    | mg/L  | 0.0004   | 0.04%  |
| Fe 273.955† | 253056.3       | 197.8    | mg/L   | 0.34     | 197.8    | mg/L  | 0.34     | 0.17%  |
| K 766.490†  | 1102.0         | 0.5992   | mg/L   | 0.01587  | 0.5992   | mg/L  | 0.01587  | 2.65%  |
| Mg 279.077† | 125002.0       | 99.38    | mg/L   | 0.181    | 99.38    | mg/L  | 0.181    | 0.18%  |
| Mn 257.610† | 44833.4        | 0.9509   | mg/L   | 0.00161  | 0.9509   | mg/L  | 0.00161  | 0.17%  |
| Mo 202.031† | 82.3           | 0.00329  | mg/L   | 0.000273 | 0.00329  | mg/L  | 0.000273 | 8.31%  |
| Na 589.592† | -200.3         | -0.01595 | mg/L   | 0.003261 | -0.01595 | mg/L  | 0.003261 | 20.44% |
| Na 330.237† | 52.5           | 1.621    | mg/L   | 0.1101   | 1.621    | mg/L  | 0.1101   | 6.80%  |
| Ni 231.604† | 3676.3         | 1.010    | mg/L   | 0.0221   | 1.010    | mg/L  | 0.0221   | 2.19%  |
| Pb 220.353† | 7677.4         | 0.9526   | mg/L   | 0.00648  | 0.9526   | mg/L  | 0.00648  | 0.68%  |
| Sb 206.836† | 2539.3         | 1.010    | mg/L   | 0.0100   | 1.010    | mg/L  | 0.0100   | 0.99%  |
| Se 196.026† | 1309.8         | 1.043    | mg/L   | 0.0196   | 1.043    | mg/L  | 0.0196   | 1.88%  |
| Si 288.158† | -44.8          | -0.01145 | mg/L   | 0.002714 | -0.01145 | mg/L  | 0.002714 | 23.70% |
| Sn 189.927† | -118.0         | 0.00390  | mg/L   | 0.000692 | 0.00390  | mg/L  | 0.000692 | 17.76% |
| Sr 421.552† | 3358.2         | 0.00388  | mg/L   | 0.000044 | 0.00388  | mg/L  | 0.000044 | 1.14%  |
| Ti 334.903† | 433.5          | -0.00353 | mg/L   | 0.000662 | -0.00353 | mg/L  | 0.000662 | 18.74% |
| Tl 190.801† | 1550.2         | 0.9587   | mg/L   | 0.01534  | 0.9587   | mg/L  | 0.01534  | 1.60%  |
| V 292.402†  | 149384.2       | 0.9627   | mg/L   | 0.00285  | 0.9627   | mg/L  | 0.00285  | 0.30%  |
| Zn 206.200† | 3988.6         | 0.9991   | mg/L   | 0.01971  | 0.9991   | mg/L  | 0.01971  | 1.97%  |



Sequence No.: 6  
 Sample ID: CV

Autosampler Location: 7  
 Date Collected: 4/27/2011 9:19:30 AM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow  
 All 207.0 kPa 0.75 L/min

Mean Data: CV

| Analyte     | Mean Corrected |        | Calib. |          | Sample |       | RSD     |       |
|-------------|----------------|--------|--------|----------|--------|-------|---------|-------|
|             | Intensity      | Conc.  | Units  | Std.Dev. | Conc.  | Units |         |       |
| ScA 357.253 | 2285943.4      | 102.4  | %      | 0.33     |        |       | 0.32%   |       |
| ScR 361.383 | 403147.2       | 101.3  | %      | 1.66     |        |       | 1.63%   |       |
| Ag 328.068† | 185410.3       | 0.9995 | mg/L   | 0.00138  | 0.9995 | mg/L  | 0.00138 | 0.14% |
| Al 308.215† | 2872.1         | 2.025  | mg/L   | 0.0346   | 2.025  | mg/L  | 0.0346  | 1.71% |
| As 188.979† | 2861.1         | 2.020  | mg/L   | 0.0129   | 2.020  | mg/L  | 0.0129  | 0.64% |
| B 249.677†  | 5695.5         | 1.024  | mg/L   | 0.0167   | 1.024  | mg/L  | 0.0167  | 1.63% |
| Ba 233.527† | 7217.1         | 1.003  | mg/L   | 0.0154   | 1.003  | mg/L  | 0.0154  | 1.54% |
| Be 313.042† | 895026.7       | 1.019  | mg/L   | 0.0081   | 1.019  | mg/L  | 0.0081  | 0.79% |
| Ca 317.933† | 23858.4        | 2.052  | mg/L   | 0.0344   | 2.052  | mg/L  | 0.0344  | 1.68% |
| Cd 228.802† | 28796.7        | 1.028  | mg/L   | 0.0024   | 1.028  | mg/L  | 0.0024  | 0.24% |
| Co 228.616† | 31016.5        | 0.9803 | mg/L   | 0.00242  | 0.9803 | mg/L  | 0.00242 | 0.25% |
| Cr 267.716† | 8056.2         | 1.009  | mg/L   | 0.0190   | 1.009  | mg/L  | 0.0190  | 1.88% |
| Cu 324.752† | 226854.1       | 0.9788 | mg/L   | 0.00272  | 0.9788 | mg/L  | 0.00272 | 0.28% |
| Fe 273.955† | 2628.9         | 2.050  | mg/L   | 0.0281   | 2.050  | mg/L  | 0.0281  | 1.37% |
| K 766.490†  | 37177.4        | 20.21  | mg/L   | 0.026    | 20.21  | mg/L  | 0.026   | 0.13% |
| Mg 279.077† | 2510.6         | 2.002  | mg/L   | 0.0531   | 2.002  | mg/L  | 0.0531  | 2.65% |
| Mn 257.610† | 47142.6        | 1.000  | mg/L   | 0.0154   | 1.000  | mg/L  | 0.0154  | 1.54% |
| Mo 202.031† | 15885.3        | 0.9910 | mg/L   | 0.00391  | 0.9910 | mg/L  | 0.00391 | 0.39% |
| Na 589.592† | 650116.8       | 51.78  | mg/L   | 0.332    | 51.78  | mg/L  | 0.332   | 0.64% |
| Na 330.237† | 1450.8         | 52.02  | mg/L   | 0.793    | 52.02  | mg/L  | 0.793   | 1.52% |
| Ni 231.604† | 3838.2         | 1.055  | mg/L   | 0.0198   | 1.055  | mg/L  | 0.0198  | 1.88% |
| Pb 220.353† | 16852.1        | 2.030  | mg/L   | 0.0084   | 2.030  | mg/L  | 0.0084  | 0.41% |
| Sb 206.836† | 5004.8         | 2.010  | mg/L   | 0.0084   | 2.010  | mg/L  | 0.0084  | 0.42% |
| Se 196.026† | 2502.2         | 2.038  | mg/L   | 0.0115   | 2.038  | mg/L  | 0.0115  | 0.57% |
| Si 288.158† | 3428.7         | 2.075  | mg/L   | 0.0249   | 2.075  | mg/L  | 0.0249  | 1.20% |
| Sn 189.927† | 4995.6         | 0.9815 | mg/L   | 0.00612  | 0.9815 | mg/L  | 0.00612 | 0.62% |
| Sr 421.552† | 892721.0       | 1.032  | mg/L   | 0.0046   | 1.032  | mg/L  | 0.0046  | 0.45% |
| Ti 334.903† | 30259.4        | 0.9689 | mg/L   | 0.00523  | 0.9689 | mg/L  | 0.00523 | 0.54% |
| Tl 190.801† | 3322.9         | 2.007  | mg/L   | 0.0143   | 2.007  | mg/L  | 0.0143  | 0.71% |
| V 292.402†  | 147515.0       | 0.9669 | mg/L   | 0.00433  | 0.9669 | mg/L  | 0.00433 | 0.45% |
| Zn 206.200† | 4056.7         | 1.016  | mg/L   | 0.0181   | 1.016  | mg/L  | 0.0181  | 1.78% |

Sequence No.: 7  
Sample ID: CB

Autosampler Location: 1  
Date Collected: 4/27/2011 9:22:31 AM  
Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CB

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

## Mean Data: CB

| Analyte     | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD     |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 2320857.1                | 104.0 %            | 0.48     |                    |          | 0.46%   |
| ScR 361.383 | 418306.5                 | 105.1 %            | 0.12     |                    |          | 0.11%   |
| Ag 328.068† | 47.6                     | 0.00026 mg/L       | 0.000178 | 0.00026 mg/L       | 0.000178 | 69.12%  |
| Al 308.215† | 25.9                     | 0.01857 mg/L       | 0.003386 | 0.01857 mg/L       | 0.003386 | 18.23%  |
| As 188.979† | 2.4                      | 0.00169 mg/L       | 0.001249 | 0.00169 mg/L       | 0.001249 | 73.84%  |
| B 249.677†  | 11.6                     | 0.00209 mg/L       | 0.000574 | 0.00209 mg/L       | 0.000574 | 27.49%  |
| Ba 233.527† | 1.1                      | 0.00015 mg/L       | 0.000519 | 0.00015 mg/L       | 0.000519 | 348.08% |
| Be 313.042† | 36.0                     | 0.00004 mg/L       | 0.000004 | 0.00004 mg/L       | 0.000004 | 9.33%   |
| Ca 317.933† | 32.7                     | 0.00281 mg/L       | 0.001328 | 0.00281 mg/L       | 0.001328 | 47.19%  |
| Cd 228.802† | 6.5                      | 0.00023 mg/L       | 0.000077 | 0.00023 mg/L       | 0.000077 | 33.76%  |
| Co 228.616† | 11.5                     | 0.00036 mg/L       | 0.000137 | 0.00036 mg/L       | 0.000137 | 37.69%  |
| Cr 267.716† | -3.1                     | -0.00039 mg/L      | 0.000576 | -0.00039 mg/L      | 0.000576 | 147.89% |
| Cu 324.752† | 12.3                     | 0.00005 mg/L       | 0.000148 | 0.00005 mg/L       | 0.000148 | 275.54% |
| Fe 273.955† | 6.3                      | 0.00496 mg/L       | 0.001112 | 0.00496 mg/L       | 0.001112 | 22.43%  |
| K 766.490†  | 64.0                     | 0.03480 mg/L       | 0.001784 | 0.03480 mg/L       | 0.001784 | 5.13%   |
| Mg 279.077† | 11.3                     | 0.00897 mg/L       | 0.005375 | 0.00897 mg/L       | 0.005375 | 59.95%  |
| Mn 257.610† | 0.0                      | 0.00000 mg/L       | 0.000036 | 0.00000 mg/L       | 0.000036 | >999.9% |
| Mo 202.031† | -5.2                     | -0.00033 mg/L      | 0.000106 | -0.00033 mg/L      | 0.000106 | 32.50%  |
| Na 589.592† | -168.3                   | -0.01341 mg/L      | 0.003526 | -0.01341 mg/L      | 0.003526 | 26.30%  |
| Na 330.237† | 23.4                     | 0.8362 mg/L        | 0.31072  | 0.8362 mg/L        | 0.31072  | 37.16%  |
| Ni 231.604† | 0.1                      | 0.00002 mg/L       | 0.000381 | 0.00002 mg/L       | 0.000381 | >999.9% |
| Pb 220.353† | -3.2                     | -0.00039 mg/L      | 0.000067 | -0.00039 mg/L      | 0.000067 | 17.36%  |
| Sb 206.836† | -0.7                     | -0.00029 mg/L      | 0.000995 | -0.00029 mg/L      | 0.000995 | 345.29% |
| Se 196.026† | 3.7                      | 0.00300 mg/L       | 0.001366 | 0.00300 mg/L       | 0.001366 | 45.62%  |
| Si 288.158† | -0.9                     | -0.00053 mg/L      | 0.000485 | -0.00053 mg/L      | 0.000485 | 90.99%  |
| Sn 189.927† | 1.7                      | 0.00033 mg/L       | 0.000617 | 0.00033 mg/L       | 0.000617 | 188.64% |
| Sr 421.552† | 79.5                     | 0.00009 mg/L       | 0.000024 | 0.00009 mg/L       | 0.000024 | 26.07%  |
| Ti 334.903† | -12.9                    | -0.00041 mg/L      | 0.000741 | -0.00041 mg/L      | 0.000741 | 178.95% |
| Tl 190.801† | 4.5                      | 0.00274 mg/L       | 0.001534 | 0.00274 mg/L       | 0.001534 | 56.06%  |
| V 292.402†  | 12.4                     | 0.00008 mg/L       | 0.000237 | 0.00008 mg/L       | 0.000237 | 300.55% |
| Zn 206.200† | 3.8                      | 0.00094 mg/L       | 0.000223 | 0.00094 mg/L       | 0.000223 | 23.63%  |

Sequence No.: 8  
Sample ID: ST70 MB SWC

Autosampler Location: 304  
Date Collected: 4/27/2011 9:26:43 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: ST70 MB SWC

Analyte Back Pressure Flow  
All 207.0 kPa 0.75 L/min

Mean Data: ST70 MB SWC

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | RSD              |
|-------------|----------------|----------|-----------------------|----------|----------|-------|------------------|
|             | Intensity      | Conc.    |                       |          | Conc.    | Units |                  |
| ScA 357.253 | 2404882.0      | 107.8    | %                     | 1.13     |          |       | 1.05%            |
| ScR 361.383 | 430458.7       | 108.2    | %                     | 1.79     |          |       | 1.65%            |
| Ag 328.068† | 105.5          | 0.00057  | mg/L                  | 0.000190 | 0.00114  | mg/L  | 0.000380 33.36%  |
| Al 308.215† | 10.2           | 0.00733  | mg/L                  | 0.004054 | 0.01465  | mg/L  | 0.008108 55.34%  |
| As 188.979† | 0.8            | 0.00053  | mg/L                  | 0.000542 | 0.00106  | mg/L  | 0.001083 102.41% |
| B 249.677†  | 6.2            | 0.00112  | mg/L                  | 0.001101 | 0.00223  | mg/L  | 0.002202 98.73%  |
| Ba 233.527† | -2.7           | -0.00038 | mg/L                  | 0.000013 | -0.00076 | mg/L  | 0.000026 3.42%   |
| Be 313.042† | -13.4          | -0.00002 | mg/L                  | 0.000028 | -0.00003 | mg/L  | 0.000056 181.43% |
| Ca 317.933† | 150.5          | 0.01294  | mg/L                  | 0.000736 | 0.02589  | mg/L  | 0.001471 5.68%   |
| Cd 228.802† | 0.7            | 0.00003  | mg/L                  | 0.000093 | 0.00005  | mg/L  | 0.000186 363.39% |
| Co 228.616† | 13.5           | 0.00043  | mg/L                  | 0.000131 | 0.00086  | mg/L  | 0.000262 30.46%  |
| Cr 267.716† | -6.9           | -0.00087 | mg/L                  | 0.000526 | -0.00173 | mg/L  | 0.001053 60.68%  |
| Cu 324.752† | -1.1           | 0.00000  | mg/L                  | 0.000150 | -0.00001 | mg/L  | 0.000301 >999.9% |
| Fe 273.955† | 7.8            | 0.00607  | mg/L                  | 0.000962 | 0.01215  | mg/L  | 0.001925 15.84%  |
| K 766.490†  | 104.1          | 0.05658  | mg/L                  | 0.004539 | 0.1132   | mg/L  | 0.00908 8.02%    |
| Mg 279.077† | 14.4           | 0.01143  | mg/L                  | 0.007031 | 0.02286  | mg/L  | 0.014062 61.51%  |
| Mn 257.610† | -3.9           | -0.00008 | mg/L                  | 0.000070 | -0.00017 | mg/L  | 0.000140 84.83%  |
| Mo 202.031† | -8.7           | -0.00055 | mg/L                  | 0.000028 | -0.00109 | mg/L  | 0.000056 5.12%   |
| Na 589.592† | -63.8          | -0.00508 | mg/L                  | 0.002944 | -0.01016 | mg/L  | 0.005887 57.95%  |
| Na 330.237† | 25.9           | 0.9282   | mg/L                  | 0.67415  | 1.856    | mg/L  | 1.3483 72.63%    |
| Ni 231.604† | 4.4            | 0.00119  | mg/L                  | 0.000880 | 0.00239  | mg/L  | 0.001760 73.69%  |
| Pb 220.353† | 8.0            | 0.00097  | mg/L                  | 0.001180 | 0.00193  | mg/L  | 0.002360 122.08% |
| Sb 206.836† | -0.6           | -0.00022 | mg/L                  | 0.000526 | -0.00044 | mg/L  | 0.001052 236.69% |
| Se 196.026† | 9.1            | 0.00739  | mg/L                  | 0.004895 | 0.01477  | mg/L  | 0.009789 66.27%  |
| Si 288.158† | 8.0            | 0.00482  | mg/L                  | 0.002874 | 0.00963  | mg/L  | 0.005747 59.67%  |
| Sn 189.927† | 5.8            | 0.00114  | mg/L                  | 0.000776 | 0.00228  | mg/L  | 0.001552 68.22%  |
| Sr 421.552† | 89.0           | 0.00010  | mg/L                  | 0.000042 | 0.00021  | mg/L  | 0.000084 41.08%  |
| Ti 334.903† | -47.0          | -0.00151 | mg/L                  | 0.001122 | -0.00302 | mg/L  | 0.002244 74.34%  |
| Tl 190.801† | 2.5            | 0.00150  | mg/L                  | 0.001534 | 0.00299  | mg/L  | 0.003068 102.55% |
| V 292.402†  | 32.2           | 0.00021  | mg/L                  | 0.000088 | 0.00041  | mg/L  | 0.000176 42.64%  |
| Zn 206.200† | 6.7            | 0.00167  | mg/L                  | 0.000505 | 0.00334  | mg/L  | 0.001011 30.23%  |

Sequence No.: 9  
Sample ID: ST42 MB2 LEN

Autosampler Location: 305  
Date Collected: 4/27/2011 9:30:56 AM  
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 MB2 LEN

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: ST42 MB2 LEN

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|---------|
|             | Intensity      |          |                       |          | Conc.    | Units |          |         |
| ScA 357.253 | 2285525.6      |          | 102.4 %               | 0.62     |          |       |          | 0.60%   |
| ScR 361.383 | 419818.9       |          | 105.5 %               | 0.52     |          |       |          | 0.49%   |
| Ag 328.068† | 41.4           | 0.00022  | mg/L                  | 0.000080 | 0.00112  | mg/L  | 0.000402 | 36.05%  |
| Al 308.215† | 13.8           | 0.00987  | mg/L                  | 0.013606 | 0.04934  | mg/L  | 0.068030 | 137.89% |
| As 188.979† | -0.6           | -0.00042 | mg/L                  | 0.001772 | -0.00209 | mg/L  | 0.008858 | 423.17% |
| B 249.677†  | 56.7           | 0.01021  | mg/L                  | 0.000158 | 0.05107  | mg/L  | 0.000790 | 1.55%   |
| Ba 233.527† | 7.6            | 0.00105  | mg/L                  | 0.000703 | 0.00526  | mg/L  | 0.003514 | 66.81%  |
| Be 313.042† | -13.5          | -0.00002 | mg/L                  | 0.000010 | -0.00008 | mg/L  | 0.000048 | 62.47%  |
| Ca 317.933† | 1913.3         | 0.1646   | mg/L                  | 0.00078  | 0.8229   | mg/L  | 0.00389  | 0.47%   |
| Cd 228.802† | 9.6            | 0.00035  | mg/L                  | 0.000248 | 0.00174  | mg/L  | 0.001240 | 71.20%  |
| Co 228.616† | 7.4            | 0.00024  | mg/L                  | 0.000251 | 0.00118  | mg/L  | 0.001254 | 106.38% |
| Cr 267.716† | -3.8           | -0.00048 | mg/L                  | 0.000466 | -0.00240 | mg/L  | 0.002330 | 97.24%  |
| Cu 324.752† | 103.5          | 0.00045  | mg/L                  | 0.000057 | 0.00224  | mg/L  | 0.000286 | 12.81%  |
| Fe 273.955† | 3.4            | 0.00264  | mg/L                  | 0.000829 | 0.01318  | mg/L  | 0.004146 | 31.47%  |
| K 766.490†  | 138.9          | 0.07551  | mg/L                  | 0.021616 | 0.3776   | mg/L  | 0.10808  | 28.63%  |
| Mg 279.077† | 31.1           | 0.02472  | mg/L                  | 0.002572 | 0.1236   | mg/L  | 0.01286  | 10.40%  |
| Mn 257.610† | 1.3            | 0.00003  | mg/L                  | 0.000032 | 0.00014  | mg/L  | 0.000158 | 111.74% |
| Mo 202.031† | -3.4           | -0.00022 | mg/L                  | 0.000197 | -0.00109 | mg/L  | 0.000987 | 90.58%  |
| Na 589.592† | 3673763.1      | 292.6    | mg/L                  | 1.47     | 1463     | mg/L  | 7.3      | 0.50%   |
| Na 330.237† | 8277.2         | 296.5    | mg/L                  | 0.95     | 1482     | mg/L  | 4.7      | 0.32%   |
| Ni 231.604† | 14.1           | 0.00387  | mg/L                  | 0.000936 | 0.01933  | mg/L  | 0.004680 | 24.21%  |
| Pb 220.353† | -3.6           | -0.00044 | mg/L                  | 0.000842 | -0.00218 | mg/L  | 0.004211 | 193.27% |
| Sb 206.836† | -3.3           | -0.00133 | mg/L                  | 0.001458 | -0.00665 | mg/L  | 0.007291 | 109.70% |
| Se 196.026† | 2.0            | 0.00158  | mg/L                  | 0.001206 | 0.00792  | mg/L  | 0.006029 | 76.12%  |
| Si 288.158† | 28.3           | 0.01710  | mg/L                  | 0.002705 | 0.08550  | mg/L  | 0.013525 | 15.82%  |
| Sn 189.927† | 1.5            | 0.00033  | mg/L                  | 0.000832 | 0.00165  | mg/L  | 0.004159 | 251.52% |
| Sr 421.552† | 148.7          | 0.00017  | mg/L                  | 0.000006 | 0.00086  | mg/L  | 0.000029 | 3.33%   |
| Ti 334.903† | -24.1          | -0.00080 | mg/L                  | 0.000332 | -0.00401 | mg/L  | 0.001661 | 41.45%  |
| Tl 190.801† | 7.0            | 0.00422  | mg/L                  | 0.000866 | 0.02111  | mg/L  | 0.004331 | 20.52%  |
| V 292.402†  | -9.8           | -0.00007 | mg/L                  | 0.000159 | -0.00033 | mg/L  | 0.000795 | 239.83% |
| Zn 206.200† | 9.2            | 0.00230  | mg/L                  | 0.000235 | 0.01151  | mg/L  | 0.001177 | 10.23%  |

Sequence No.: 10  
Sample ID: ST42 Bt LEN

Autosampler Location: 306  
Date Collected: 4/27/2011 9:35:26 AM  
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 Bt LEN

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: ST42 Bt LEN

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2299748.7      | 103.1    | %               | 0.09     |          |       |          | 0.09%   |
| ScR 361.383 | 417632.4       | 104.9    | %               | 1.01     |          |       |          | 0.96%   |
| Ag 328.068† | 31.6           | 0.00017  | mg/L            | 0.000279 | 0.00085  | mg/L  | 0.001395 | 164.81% |
| Al 308.215† | 74.6           | 0.05341  | mg/L            | 0.014869 | 0.2670   | mg/L  | 0.07435  | 27.84%  |
| As 188.979† | 5.0            | 0.00326  | mg/L            | 0.002782 | 0.01629  | mg/L  | 0.013912 | 85.43%  |
| B 249.677†  | 82.7           | 0.01489  | mg/L            | 0.001522 | 0.07445  | mg/L  | 0.007608 | 10.22%  |
| Ba 233.527† | 101.4          | 0.01410  | mg/L            | 0.000250 | 0.07051  | mg/L  | 0.001248 | 1.77%   |
| Be 313.042† | -4.4           | -0.00001 | mg/L            | 0.000020 | -0.00003 | mg/L  | 0.000102 | 391.99% |
| Ca 317.933† | 33969.5        | 2.922    | mg/L            | 0.0211   | 14.61    | mg/L  | 0.105    | 0.72%   |
| Cd 228.802† | 55.5           | 0.00199  | mg/L            | 0.000101 | 0.00993  | mg/L  | 0.000506 | 5.10%   |
| Co 228.616† | 19.3           | 0.00061  | mg/L            | 0.000064 | 0.00303  | mg/L  | 0.000320 | 10.57%  |
| Cr 267.716† | -1.4           | -0.00028 | mg/L            | 0.000290 | -0.00142 | mg/L  | 0.001450 | 102.26% |
| Cu 324.752† | 442.3          | 0.00191  | mg/L            | 0.000073 | 0.00953  | mg/L  | 0.000365 | 3.83%   |
| Fe 273.955† | 34.6           | 0.02708  | mg/L            | 0.003115 | 0.1354   | mg/L  | 0.01557  | 11.50%  |
| K 766.490†  | 1674.4         | 0.9104   | mg/L            | 0.03881  | 4.552    | mg/L  | 0.1940   | 4.26%   |
| Mg 279.077† | 1305.1         | 1.038    | mg/L            | 0.0104   | 5.192    | mg/L  | 0.0520   | 1.00%   |
| Mn 257.610† | 348.0          | 0.00737  | mg/L            | 0.000137 | 0.03687  | mg/L  | 0.000685 | 1.86%   |
| Mo 202.031† | 2.8            | 0.00012  | mg/L            | 0.000256 | 0.00059  | mg/L  | 0.001278 | 215.33% |
| Na 589.592† | 3632141.7      | 289.3    | mg/L            | 0.84     | 1447     | mg/L  | 4.2      | 0.29%   |
| Na 330.237† | 8154.1         | 292.0    | mg/L            | 3.35     | 1460     | mg/L  | 16.7     | 1.15%   |
| Ni 231.604† | 13.1           | 0.00360  | mg/L            | 0.000691 | 0.01802  | mg/L  | 0.003453 | 19.16%  |
| Pb 220.353† | 28.5           | 0.00344  | mg/L            | 0.000846 | 0.01718  | mg/L  | 0.004232 | 24.63%  |
| Sb 206.836† | -3.1           | -0.00125 | mg/L            | 0.002864 | -0.00626 | mg/L  | 0.014320 | 228.67% |
| Se 196.026† | 9.8            | 0.00744  | mg/L            | 0.001139 | 0.03721  | mg/L  | 0.005693 | 15.30%  |
| Si 288.158† | 650.3          | 0.3925   | mg/L            | 0.00319  | 1.962    | mg/L  | 0.0160   | 0.81%   |
| Sn 189.927† | -6.3           | -0.00046 | mg/L            | 0.000185 | -0.00229 | mg/L  | 0.000925 | 40.41%  |
| Sr 421.552† | 18495.0        | 0.02138  | mg/L            | 0.000019 | 0.1069   | mg/L  | 0.00009  | 0.09%   |
| Ti 334.903† | 20.3           | 0.00015  | mg/L            | 0.000193 | 0.00073  | mg/L  | 0.000965 | 132.67% |
| Tl 190.801† | 6.4            | 0.00385  | mg/L            | 0.002281 | 0.01926  | mg/L  | 0.011406 | 59.21%  |
| V 292.402†  | 43.9           | 0.00028  | mg/L            | 0.000348 | 0.00142  | mg/L  | 0.001740 | 122.58% |
| Zn 206.200† | 50.4           | 0.01262  | mg/L            | 0.000899 | 0.06310  | mg/L  | 0.004493 | 7.12%   |

Sequence No.: 11  
Sample ID: ST42 Ct LEN

Autosampler Location: 307  
Date Collected: 4/27/2011 9:39:56 AM  
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 Ct LEN

Analyte Back Pressure Flow  
All 207.0 kPa 0.75 L/min

Mean Data: ST42 Ct LEN

| Analyte     | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD     |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 2310636.6                | 103.5 %            | 0.57     |                    |          | 0.55%   |
| ScR 361.383 | 417495.8                 | 104.9 %            | 1.47     |                    |          | 1.40%   |
| Ag 328.068† | 53.8                     | 0.00025 mg/L       | 0.000246 | 0.00124 mg/L       | 0.001231 | 98.94%  |
| Al 308.215† | 174.3                    | 0.1245 mg/L        | 0.00548  | 0.6224 mg/L        | 0.02741  | 4.40%   |
| As 188.979† | 6.4                      | 0.00408 mg/L       | 0.002882 | 0.02038 mg/L       | 0.014410 | 70.70%  |
| B 249.677†  | 92.9                     | 0.01673 mg/L       | 0.001552 | 0.08366 mg/L       | 0.007761 | 9.28%   |
| Ba 233.527† | 140.8                    | 0.01953 mg/L       | 0.000478 | 0.09766 mg/L       | 0.002391 | 2.45%   |
| Be 313.042† | 137.2                    | 0.00016 mg/L       | 0.000045 | 0.00078 mg/L       | 0.000223 | 28.53%  |
| Ca 317.933† | 57125.2                  | 4.914 mg/L         | 0.0449   | 24.57 mg/L         | 0.225    | 0.91%   |
| Cd 228.802† | 234.0                    | 0.00840 mg/L       | 0.000200 | 0.04198 mg/L       | 0.001001 | 2.38%   |
| Co 228.616† | 111.9                    | 0.00354 mg/L       | 0.000137 | 0.01769 mg/L       | 0.000684 | 3.87%   |
| Cr 267.716† | 1.3                      | 0.00001 mg/L       | 0.000899 | 0.00007 mg/L       | 0.004497 | >999.9% |
| Cu 324.752† | 373.7                    | 0.00165 mg/L       | 0.000132 | 0.00823 mg/L       | 0.000658 | 8.00%   |
| Fe 273.955† | 1011.1                   | 0.7904 mg/L        | 0.00699  | 3.952 mg/L         | 0.0350   | 0.88%   |
| K 766.490†  | 2191.6                   | 1.192 mg/L         | 0.0095   | 5.958 mg/L         | 0.0477   | 0.80%   |
| Mg 279.077† | 2049.4                   | 1.630 mg/L         | 0.0100   | 8.152 mg/L         | 0.0500   | 0.61%   |
| Mn 257.610† | 11015.9                  | 0.2336 mg/L        | 0.00159  | 1.168 mg/L         | 0.0080   | 0.68%   |
| Mo 202.031† | 4.4                      | 0.00018 mg/L       | 0.000136 | 0.00091 mg/L       | 0.000680 | 74.52%  |
| Na 589.592† | 3571414.9                | 284.5 mg/L         | 0.89     | 1422 mg/L          | 4.4      | 0.31%   |
| Na 330.237† | 7850.5                   | 281.2 mg/L         | 0.87     | 1406 mg/L          | 4.4      | 0.31%   |
| Ni 231.604† | 27.1                     | 0.00743 mg/L       | 0.001093 | 0.03715 mg/L       | 0.005467 | 14.71%  |
| Pb 220.353† | -0.4                     | -0.00007 mg/L      | 0.000983 | -0.00035 mg/L      | 0.004917 | >999.9% |
| Sb 206.836† | -1.6                     | -0.00065 mg/L      | 0.000863 | -0.00324 mg/L      | 0.004313 | 133.08% |
| Se 196.026† | 12.5                     | 0.00929 mg/L       | 0.003312 | 0.04644 mg/L       | 0.016559 | 35.65%  |
| Si 288.158† | 1069.8                   | 0.6457 mg/L        | 0.01113  | 3.228 mg/L         | 0.0556   | 1.72%   |
| Sn 189.927† | -9.7                     | -0.00060 mg/L      | 0.000352 | -0.00298 mg/L      | 0.001762 | 59.10%  |
| Sr 421.552† | 28554.3                  | 0.03300 mg/L       | 0.000218 | 0.1650 mg/L        | 0.00109  | 0.66%   |
| Ti 334.903† | 21.7                     | -0.00016 mg/L      | 0.000582 | -0.00078 mg/L      | 0.002910 | 373.17% |
| Tl 190.801† | 4.9                      | 0.00304 mg/L       | 0.001802 | 0.01522 mg/L       | 0.009012 | 59.23%  |
| V 292.402†  | 3.8                      | 0.00000 mg/L       | 0.000270 | -0.00001 mg/L      | 0.001348 | >999.9% |
| Zn 206.200† | 42.0                     | 0.01051 mg/L       | 0.001203 | 0.05254 mg/L       | 0.006016 | 11.45%  |

Sequence No.: 12  
Sample ID: ST42 Dt LEN

Autosampler Location: 308  
Date Collected: 4/27/2011 9:44:11 AM  
Data Type: Original

Dilution: 5X

## Nebulizer Parameters: ST42 Dt LEN

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

## Mean Data: ST42 Dt LEN

| Analyte     | Mean Corrected |          | Calib. Units | Std.Dev. | Sample   |       | RSD              |
|-------------|----------------|----------|--------------|----------|----------|-------|------------------|
|             | Intensity      | Conc.    |              |          | Conc.    | Units |                  |
| ScA 357.253 | 2322703.6      | 104.1    | %            | 1.33     |          |       | 1.28%            |
| ScR 361.383 | 429556.6       | 107.9    | %            | 0.41     |          |       | 0.38%            |
| Ag 328.068† | 85.2           | 0.00045  | mg/L         | 0.000101 | 0.00227  | mg/L  | 0.000507 22.37%  |
| Al 308.215† | 91.6           | 0.06555  | mg/L         | 0.009106 | 0.3278   | mg/L  | 0.04553 13.89%   |
| As 188.979† | 3.2            | 0.00212  | mg/L         | 0.000844 | 0.01062  | mg/L  | 0.004221 39.75%  |
| B 249.677†  | 69.9           | 0.01259  | mg/L         | 0.000412 | 0.06293  | mg/L  | 0.002058 3.27%   |
| Ba 233.527† | 98.8           | 0.01369  | mg/L         | 0.000456 | 0.06845  | mg/L  | 0.002281 3.33%   |
| Be 313.042† | 55.7           | 0.00006  | mg/L         | 0.000007 | 0.00031  | mg/L  | 0.000035 11.11%  |
| Ca 317.933† | 16018.4        | 1.378    | mg/L         | 0.0120   | 6.890    | mg/L  | 0.0601 0.87%     |
| Cd 228.802† | 2.9            | 0.00010  | mg/L         | 0.000143 | 0.00049  | mg/L  | 0.000716 145.86% |
| Co 228.616† | 13.1           | 0.00041  | mg/L         | 0.000097 | 0.00206  | mg/L  | 0.000486 23.63%  |
| Cr 267.716† | 0.2            | -0.00003 | mg/L         | 0.000868 | -0.00014 | mg/L  | 0.004339 >999.9% |
| Cu 324.752† | 783.9          | 0.00341  | mg/L         | 0.000300 | 0.01707  | mg/L  | 0.001500 8.79%   |
| Fe 273.955† | 908.6          | 0.7103   | mg/L         | 0.00298  | 3.551    | mg/L  | 0.0149 0.42%     |
| K 766.490†  | 905.7          | 0.4924   | mg/L         | 0.01893  | 2.462    | mg/L  | 0.0946 3.84%     |
| Mg 279.077† | 1127.4         | 0.8968   | mg/L         | 0.01336  | 4.484    | mg/L  | 0.0668 1.49%     |
| Mn 257.610† | 1511.7         | 0.03206  | mg/L         | 0.000130 | 0.1603   | mg/L  | 0.00065 0.40%    |
| Mo 202.031† | 0.4            | 0.00000  | mg/L         | 0.000228 | -0.00001 | mg/L  | 0.001140 >999.9% |
| Na 589.592† | 3585960.0      | 285.6    | mg/L         | 1.27     | 1428     | mg/L  | 6.3 0.44%        |
| Na 330.237† | 8177.2         | 292.9    | mg/L         | 1.91     | 1464     | mg/L  | 9.5 0.65%        |
| Ni 231.604† | 10.4           | 0.00285  | mg/L         | 0.000826 | 0.01427  | mg/L  | 0.004131 28.95%  |
| Pb 220.353† | 3.0            | 0.00033  | mg/L         | 0.000789 | 0.00163  | mg/L  | 0.003944 241.35% |
| Sb 206.836† | -3.7           | -0.00149 | mg/L         | 0.002018 | -0.00747 | mg/L  | 0.010091 135.04% |
| Se 196.026† | 6.8            | 0.00527  | mg/L         | 0.001387 | 0.02636  | mg/L  | 0.006936 26.31%  |
| Si 288.158† | 397.0          | 0.2396   | mg/L         | 0.00352  | 1.198    | mg/L  | 0.0176 1.47%     |
| Sn 189.927† | -0.6           | 0.00024  | mg/L         | 0.000277 | 0.00120  | mg/L  | 0.001386 115.17% |
| Sr 421.552† | 11542.3        | 0.01334  | mg/L         | 0.000092 | 0.06670  | mg/L  | 0.000461 0.69%   |
| Ti 334.903† | -13.1          | -0.00066 | mg/L         | 0.000616 | -0.00330 | mg/L  | 0.003080 93.28%  |
| Tl 190.801† | 0.4            | 0.00032  | mg/L         | 0.001211 | 0.00161  | mg/L  | 0.006056 375.37% |
| V 292.402†  | 142.8          | 0.00088  | mg/L         | 0.000161 | 0.00439  | mg/L  | 0.000805 18.33%  |
| Zn 206.200† | 12.0           | 0.00302  | mg/L         | 0.000326 | 0.01509  | mg/L  | 0.001631 10.81%  |

Sequence No.: 13

Autosampler Location: 309

Sample ID: ST42 AtDUP LEN

Date Collected: 4/27/2011 9:48:41 AM

Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 AtDUP LEN

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: ST42 AtDUP LEN

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                       |          | Conc.    | Units |          |         |
| ScA 357.253 | 2316054.7      | 103.8    | %                     | 1.06     |          |       |          | 1.02%   |
| ScR 361.383 | 421368.5       | 105.9    | %                     | 0.54     |          |       |          | 0.51%   |
| Ag 328.068† | 37.7           | 0.00020  | mg/L                  | 0.000092 | 0.00101  | mg/L  | 0.000459 | 45.47%  |
| Al 308.215† | 70.3           | 0.05034  | mg/L                  | 0.000818 | 0.2517   | mg/L  | 0.00409  | 1.63%   |
| As 188.979† | 3.2            | 0.00193  | mg/L                  | 0.000983 | 0.00965  | mg/L  | 0.004914 | 50.92%  |
| B 249.677†  | 28.6           | 0.00515  | mg/L                  | 0.000783 | 0.02574  | mg/L  | 0.003913 | 15.20%  |
| Ba 233.527† | 84.9           | 0.01181  | mg/L                  | 0.000625 | 0.05903  | mg/L  | 0.003127 | 5.30%   |
| Be 313.042† | 34.1           | 0.00004  | mg/L                  | 0.000012 | 0.00019  | mg/L  | 0.000060 | 30.73%  |
| Ca 317.933† | 37822.9        | 3.254    | mg/L                  | 0.0136   | 16.27    | mg/L  | 0.068    | 0.42%   |
| Cd 228.802† | 7.7            | 0.00027  | mg/L                  | 0.000097 | 0.00135  | mg/L  | 0.000487 | 36.00%  |
| Co 228.616† | 6.8            | 0.00021  | mg/L                  | 0.000186 | 0.00106  | mg/L  | 0.000929 | 87.72%  |
| Cr 267.716† | -0.6           | -0.00020 | mg/L                  | 0.000317 | -0.00098 | mg/L  | 0.001587 | 162.49% |
| Cu 324.752† | 540.2          | 0.00233  | mg/L                  | 0.000044 | 0.01164  | mg/L  | 0.000219 | 1.89%   |
| Fe 273.955† | 16.6           | 0.01295  | mg/L                  | 0.001085 | 0.06474  | mg/L  | 0.005426 | 8.38%   |
| K 766.490†  | 1312.5         | 0.7137   | mg/L                  | 0.00928  | 3.568    | mg/L  | 0.0464   | 1.30%   |
| Mg 279.077† | 1375.6         | 1.095    | mg/L                  | 0.0060   | 5.473    | mg/L  | 0.0302   | 0.55%   |
| Mn 257.610† | 273.7          | 0.00580  | mg/L                  | 0.000083 | 0.02898  | mg/L  | 0.000416 | 1.44%   |
| Mo 202.031† | 0.1            | -0.00005 | mg/L                  | 0.000149 | -0.00026 | mg/L  | 0.000745 | 286.68% |
| Na 589.592† | 3570097.6      | 284.4    | mg/L                  | 3.56     | 1422     | mg/L  | 17.8     | 1.25%   |
| Na 330.237† | 7875.1         | 282.1    | mg/L                  | 1.46     | 1410     | mg/L  | 7.3      | 0.52%   |
| Ni 231.604† | 11.4           | 0.00312  | mg/L                  | 0.000559 | 0.01560  | mg/L  | 0.002794 | 17.91%  |
| Pb 220.353† | 5.1            | 0.00062  | mg/L                  | 0.000865 | 0.00308  | mg/L  | 0.004326 | 140.67% |
| Sb 206.836† | -2.6           | -0.00103 | mg/L                  | 0.002887 | -0.00515 | mg/L  | 0.014433 | 280.18% |
| Se 196.026† | 8.4            | 0.00623  | mg/L                  | 0.002620 | 0.03114  | mg/L  | 0.013099 | 42.06%  |
| Si 288.158† | 441.6          | 0.2666   | mg/L                  | 0.00289  | 1.333    | mg/L  | 0.0145   | 1.09%   |
| Sn 189.927† | -4.4           | 0.00000  | mg/L                  | 0.000874 | -0.00001 | mg/L  | 0.004372 | >999.9% |
| Sr 421.552† | 22204.4        | 0.02566  | mg/L                  | 0.000187 | 0.1283   | mg/L  | 0.00093  | 0.73%   |
| Ti 334.903† | 9.0            | -0.00027 | mg/L                  | 0.000211 | -0.00137 | mg/L  | 0.001054 | 76.66%  |
| Tl 190.801† | 5.3            | 0.00318  | mg/L                  | 0.000547 | 0.01590  | mg/L  | 0.002736 | 17.20%  |
| V 292.402†  | 24.8           | 0.00016  | mg/L                  | 0.000081 | 0.00081  | mg/L  | 0.000407 | 50.43%  |
| Zn 206.200† | 14.0           | 0.00350  | mg/L                  | 0.000329 | 0.01749  | mg/L  | 0.001644 | 9.40%   |



Sequence No.: 14  
Sample ID: ST42 At LEN

Autosampler Location: 310  
Date Collected: 4/27/2011 9:52:55 AM  
Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 At LEN

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: ST42 At LEN

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2256682.5      | 101.1    | %               | 1.06     |          |       |          | 1.04%   |
| ScR 361.383 | 419421.5       | 105.4    | %               | 1.10     |          |       |          | 1.05%   |
| Ag 328.068† | 32.5           | 0.00017  | mg/L            | 0.000067 | 0.00087  | mg/L  | 0.000334 | 38.27%  |
| Al 308.215† | 60.3           | 0.04321  | mg/L            | 0.019059 | 0.2160   | mg/L  | 0.09530  | 44.11%  |
| As 188.979† | 3.3            | 0.00200  | mg/L            | 0.002772 | 0.01001  | mg/L  | 0.013859 | 138.45% |
| B 249.677†  | 26.7           | 0.00481  | mg/L            | 0.000435 | 0.02405  | mg/L  | 0.002175 | 9.04%   |
| Ba 233.527† | 84.2           | 0.01171  | mg/L            | 0.000458 | 0.05857  | mg/L  | 0.002291 | 3.91%   |
| Be 313.042† | -8.7           | -0.00001 | mg/L            | 0.000016 | -0.00005 | mg/L  | 0.000079 | 157.57% |
| Ca 317.933† | 39159.8        | 3.369    | mg/L            | 0.0267   | 16.84    | mg/L  | 0.133    | 0.79%   |
| Cd 228.802† | 9.7            | 0.00034  | mg/L            | 0.000109 | 0.00171  | mg/L  | 0.000544 | 31.76%  |
| Co 228.616† | 8.2            | 0.00026  | mg/L            | 0.000192 | 0.00128  | mg/L  | 0.000961 | 75.22%  |
| Cr 267.716† | -2.3           | -0.00041 | mg/L            | 0.000562 | -0.00203 | mg/L  | 0.002809 | 138.17% |
| Cu 324.752† | 561.7          | 0.00242  | mg/L            | 0.000022 | 0.01210  | mg/L  | 0.000110 | 0.91%   |
| Fe 273.955† | 17.0           | 0.01331  | mg/L            | 0.002112 | 0.06654  | mg/L  | 0.010560 | 15.87%  |
| K 766.490†  | 1081.7         | 0.5882   | mg/L            | 0.01112  | 2.941    | mg/L  | 0.0556   | 1.89%   |
| Mg 279.077† | 1320.1         | 1.050    | mg/L            | 0.0163   | 5.252    | mg/L  | 0.0815   | 1.55%   |
| Mn 257.610† | 280.2          | 0.00594  | mg/L            | 0.000067 | 0.02968  | mg/L  | 0.000337 | 1.14%   |
| Mo 202.031† | 0.7            | -0.00002 | mg/L            | 0.000081 | -0.00009 | mg/L  | 0.000403 | 434.47% |
| Na 589.592† | 3590558.9      | 286.0    | mg/L            | 4.52     | 1430     | mg/L  | 22.6     | 1.58%   |
| Na 330.237† | 8061.4         | 288.7    | mg/L            | 1.86     | 1444     | mg/L  | 9.3      | 0.65%   |
| Ni 231.604† | 14.7           | 0.00404  | mg/L            | 0.000698 | -0.02021 | mg/L  | 0.003489 | 17.26%  |
| Pb 220.353† | -6.9           | -0.00082 | mg/L            | 0.000629 | -0.00411 | mg/L  | 0.003145 | 76.50%  |
| Sb 206.836† | -4.8           | -0.00192 | mg/L            | 0.001467 | -0.00959 | mg/L  | 0.007334 | 76.47%  |
| Se 196.026† | 7.0            | 0.00512  | mg/L            | 0.002032 | 0.02560  | mg/L  | 0.010158 | 39.68%  |
| Si 288.158† | 449.3          | 0.2712   | mg/L            | 0.00327  | 1.356    | mg/L  | 0.0163   | 1.20%   |
| Sn 189.927† | -3.8           | 0.00015  | mg/L            | 0.001004 | 0.00077  | mg/L  | 0.005019 | 650.36% |
| Sr 421.552† | 22302.0        | 0.02578  | mg/L            | 0.000061 | 0.1289   | mg/L  | 0.00030  | 0.24%   |
| Ti 334.903† | -4.1           | -0.00072 | mg/L            | 0.000597 | -0.00358 | mg/L  | 0.002985 | 83.48%  |
| Tl 190.801† | 2.7            | 0.00164  | mg/L            | 0.002486 | 0.00821  | mg/L  | 0.012428 | 151.41% |
| V 292.402†  | 22.4           | 0.00014  | mg/L            | 0.000087 | 0.00072  | mg/L  | 0.000436 | 60.15%  |
| Zn 206.200† | 17.4           | 0.00435  | mg/L            | 0.000054 | 0.02173  | mg/L  | 0.000269 | 1.24%   |

Sequence No.: 15

Sample ID: ST42 AtSPK LEN

Autosampler Location: 311

Date Collected: 4/27/2011 9:57:24 AM

Data Type: Original

Dilution: 5X

Nebulizer Parameters: ST42 AtSPK LEN

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: ST42 AtSPK LEN

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                       |          | Conc.    | Units |          |         |
| ScA 357.253 | 2270168.7      | 101.7    | %                     | 0.35     |          |       |          | 0.34%   |
| ScR 361.383 | 414049.3       | 104.0    | %                     | 0.98     |          |       |          | 0.94%   |
| Ag 328.068† | 39770.2        | 0.2144   | mg/L                  | 0.00152  | 1.072    | mg/L  | 0.0076   | 0.71%   |
| Al 308.215† | 1242.6         | 0.8865   | mg/L                  | 0.00483  | 4.433    | mg/L  | 0.0241   | 0.54%   |
| As 188.979† | 1215.8         | 0.8552   | mg/L                  | 0.00429  | 4.276    | mg/L  | 0.0214   | 0.50%   |
| B 249.677†  | 32.9           | 0.00545  | mg/L                  | 0.000391 | 0.02723  | mg/L  | 0.001956 | 7.18%   |
| Ba 233.527† | 5993.3         | 0.8335   | mg/L                  | 0.00683  | 4.168    | mg/L  | 0.0342   | 0.82%   |
| Be 313.042† | 177159.2       | 0.2018   | mg/L                  | 0.00074  | 1.009    | mg/L  | 0.0037   | 0.37%   |
| Ca 317.933† | 85309.7        | 7.339    | mg/L                  | 0.0085   | 36.69    | mg/L  | 0.043    | 0.12%   |
| Cd 228.802† | 6030.1         | 0.2137   | mg/L                  | 0.00157  | 1.069    | mg/L  | 0.0079   | 0.73%   |
| Co 228.616† | 6390.0         | 0.2021   | mg/L                  | 0.00132  | 1.010    | mg/L  | 0.0066   | 0.65%   |
| Cr 267.716† | 1648.8         | 0.2062   | mg/L                  | 0.00167  | 1.031    | mg/L  | 0.0084   | 0.81%   |
| Cu 324.752† | 47816.2        | 0.2064   | mg/L                  | 0.00257  | 1.032    | mg/L  | 0.0129   | 1.25%   |
| Fe 273.955† | 1070.2         | 0.8356   | mg/L                  | 0.00572  | 4.178    | mg/L  | 0.0286   | 0.68%   |
| K 766.490†  | 8821.1         | 4.796    | mg/L                  | 0.0093   | 23.98    | mg/L  | 0.046    | 0.19%   |
| Mg 279.077† | 6652.9         | 5.294    | mg/L                  | 0.0424   | 26.47    | mg/L  | 0.212    | 0.80%   |
| Mn 257.610† | 9673.1         | 0.2053   | mg/L                  | 0.00155  | 1.027    | mg/L  | 0.0078   | 0.76%   |
| Mo 202.031† | 11.6           | 0.00059  | mg/L                  | 0.000455 | 0.00294  | mg/L  | 0.002276 | 77.47%  |
| Na 589.592† | 3696895.4      | 294.5    | mg/L                  | 0.58     | 1472     | mg/L  | 2.9      | 0.20%   |
| Na 330.237† | 8115.5         | 290.6    | mg/L                  | 1.04     | 1453     | mg/L  | 5.2      | 0.36%   |
| Ni 231.604† | 768.1          | 0.2109   | mg/L                  | 0.00249  | 1.054    | mg/L  | 0.0124   | 1.18%   |
| Pb 220.353† | 6846.7         | 0.8244   | mg/L                  | 0.00488  | 4.122    | mg/L  | 0.0244   | 0.59%   |
| Sb 206.836† | 1.8            | -0.00065 | mg/L                  | 0.000790 | -0.00323 | mg/L  | 0.003951 | 122.51% |
| Se 196.026† | 1089.5         | 0.8858   | mg/L                  | 0.00320  | 4.429    | mg/L  | 0.0160   | 0.36%   |
| Si 288.158† | 450.5          | 0.2733   | mg/L                  | 0.00174  | 1.366    | mg/L  | 0.0087   | 0.64%   |
| Sn 189.927† | -14.4          | -0.00088 | mg/L                  | 0.000357 | -0.00439 | mg/L  | 0.001784 | 40.65%  |
| Sr 421.552† | 200583.7       | 0.2318   | mg/L                  | 0.00045  | 1.159    | mg/L  | 0.0023   | 0.20%   |
| Ti 334.903† | 40.1           | -0.00002 | mg/L                  | 0.000391 | -0.00009 | mg/L  | 0.001957 | >999.9% |
| Tl 190.801† | 1332.4         | 0.8039   | mg/L                  | 0.00838  | 4.020    | mg/L  | 0.0419   | 1.04%   |
| V 292.402†  | 30873.4        | 0.2022   | mg/L                  | 0.00148  | 1.011    | mg/L  | 0.0074   | 0.73%   |
| Zn 206.200† | 847.6          | 0.2124   | mg/L                  | 0.00035  | 1.062    | mg/L  | 0.0017   | 0.16%   |

Sequence No.: 16  
Sample ID: ST70 B SWC

Autosampler Location: 312  
Date Collected: 4/27/2011 10:01:38 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: ST70 B SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: ST70 B SWC

| Analyte     | Mean Corrected |         | Calib. |          | Sample  |       | RSD             |
|-------------|----------------|---------|--------|----------|---------|-------|-----------------|
|             | Intensity      | Conc.   | Units  | Std.Dev. | Conc.   | Units |                 |
| ScA 357.253 | 2362474.3      | 105.9   | %      | 0.39     |         |       | 0.37%           |
| ScR 361.383 | 415811.7       | 104.5   | %      | 2.27     |         |       | 2.17%           |
| Ag 328.068† | 2811.9         | 0.01501 | mg/L   | 0.000277 | 0.03002 | mg/L  | 0.000555 1.85%  |
| Al 308.215† | 121261.6       | 86.88   | mg/L   | 0.168    | 173.8   | mg/L  | 0.34 0.19%      |
| As 188.979† | 37.9           | 0.06887 | mg/L   | 0.001723 | 0.1377  | mg/L  | 0.00345 2.50%   |
| B 249.677†  | 48.3           | 0.00856 | mg/L   | 0.000221 | 0.01712 | mg/L  | 0.000443 2.59%  |
| Ba 233.527† | 9046.8         | 1.250   | mg/L   | 0.0298   | 2.500   | mg/L  | 0.0595 2.38%    |
| Be 313.042† | 1290.4         | 0.00126 | mg/L   | 0.000065 | 0.00252 | mg/L  | 0.000131 5.19%  |
| Ca 317.933† | 1115529.0      | 95.96   | mg/L   | 0.164    | 191.9   | mg/L  | 0.33 0.17%      |
| Cd 228.802† | 1560.0         | 0.05604 | mg/L   | 0.000245 | 0.1121  | mg/L  | 0.00049 0.44%   |
| Co 228.616† | 2018.5         | 0.05335 | mg/L   | 0.000315 | 0.1067  | mg/L  | 0.00063 0.59%   |
| Cr 267.716† | 7550.8         | 0.9489  | mg/L   | 0.02147  | 1.898   | mg/L  | 0.0429 2.26%    |
| Cu 324.752† | 45133.2        | 0.1990  | mg/L   | 0.00056  | 0.3980  | mg/L  | 0.00112 0.28%   |
| Fe 273.955† | 158324.7       | 123.8   | mg/L   | 0.24     | 247.5   | mg/L  | 0.47 0.19%      |
| K 766.490†  | 11235.8        | 6.109   | mg/L   | 0.0285   | 12.22   | mg/L  | 0.057 0.47%     |
| Mg 279.077† | 29555.6        | 23.46   | mg/L   | 0.057    | 46.92   | mg/L  | 0.115 0.24%     |
| Mn 257.610† | 62344.6        | 1.322   | mg/L   | 0.0052   | 2.645   | mg/L  | 0.0104 0.39%    |
| Mo 202.031† | 141.7          | 0.00706 | mg/L   | 0.000180 | 0.01412 | mg/L  | 0.000360 2.55%  |
| Na 589.592† | 66685.2        | 5.312   | mg/L   | 0.0245   | 10.62   | mg/L  | 0.049 0.46%     |
| Na 330.237† | 162.6          | 7.345   | mg/L   | 0.1940   | 14.69   | mg/L  | 0.388 2.64%     |
| Ni 231.604† | 454.2          | 0.1247  | mg/L   | 0.00472  | 0.2494  | mg/L  | 0.00943 3.78%   |
| Pb 220.353† | 2513.2         | 0.3138  | mg/L   | 0.00086  | 0.6276  | mg/L  | 0.00171 0.27%   |
| Sb 206.836† | 20.2           | 0.00947 | mg/L   | 0.003470 | 0.01895 | mg/L  | 0.006939 36.62% |
| Se 196.026† | 46.2           | 0.02107 | mg/L   | 0.003398 | 0.04214 | mg/L  | 0.006797 16.13% |
| Si 288.158† | 3815.8         | 2.305   | mg/L   | 0.0571   | 4.611   | mg/L  | 0.1142 2.48%    |
| Sn 189.927† | -66.7          | 0.01458 | mg/L   | 0.000864 | 0.02917 | mg/L  | 0.001728 5.93%  |
| Sr 421.552† | 430880.5       | 0.4980  | mg/L   | 0.00164  | 0.9960  | mg/L  | 0.00329 0.33%   |
| Ti 334.903† | 197555.8       | 6.320   | mg/L   | 0.0235   | 12.64   | mg/L  | 0.047 0.37%     |
| Tl 190.801† | -5.5           | 0.01227 | mg/L   | 0.006693 | 0.02455 | mg/L  | 0.013387 54.54% |
| V 292.402†  | 60024.8        | 0.3819  | mg/L   | 0.00031  | 0.7639  | mg/L  | 0.00062 0.08%   |
| Zn 206.200† | 9396.8         | 2.354   | mg/L   | 0.0546   | 4.708   | mg/L  | 0.1091 2.32%    |

Sequence No.: 17

Sample ID: ST70 MBSPK SWC

Autosampler Location: 313

Date Collected: 4/27/2011 10:05:37 AM

Data Type: Original

Dilution: 2X

## Nebulizer Parameters: ST70 MBSPK SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

## Mean Data: ST70 MBSPK SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2382528.8      | 106.8    | %               | 0.95     |          |       |          | 0.89%   |
| ScR 361.383 | 430068.2       | 108.1    | %               | 0.39     |          |       |          | 0.36%   |
| Ag 328.068† | 99484.7        | 0.5363   | mg/L            | 0.00590  | 1.073    | mg/L  | 0.0118   | 1.10%   |
| Al 308.215† | 2896.5         | 2.066    | mg/L            | 0.0157   | 4.131    | mg/L  | 0.0313   | 0.76%   |
| As 188.979† | 2940.2         | 2.069    | mg/L            | 0.0242   | 4.138    | mg/L  | 0.0484   | 1.17%   |
| B 249.677†  | 5.0            | -0.00029 | mg/L            | 0.000957 | -0.00058 | mg/L  | 0.001914 | 329.97% |
| Ba 233.527† | 14598.5        | 2.030    | mg/L            | 0.0122   | 4.061    | mg/L  | 0.0244   | 0.60%   |
| Be 313.042† | 448582.4       | 0.5109   | mg/L            | 0.00176  | 1.022    | mg/L  | 0.0035   | 0.34%   |
| Ca 317.933† | 115432.2       | 9.930    | mg/L            | 0.0182   | 19.86    | mg/L  | 0.036    | 0.18%   |
| Cd 228.802† | 14426.0        | 0.5113   | mg/L            | 0.00630  | 1.023    | mg/L  | 0.0126   | 1.23%   |
| Co 228.616† | 15807.0        | 0.4999   | mg/L            | 0.00580  | 0.9998   | mg/L  | 0.01159  | 1.16%   |
| Cr 267.716† | 4045.6         | 0.5062   | mg/L            | 0.00344  | 1.012    | mg/L  | 0.0069   | 0.68%   |
| Cu 324.752† | 116949.2       | 0.5049   | mg/L            | 0.00526  | 1.010    | mg/L  | 0.0105   | 1.04%   |
| Fe 273.955† | 2635.6         | 2.058    | mg/L            | 0.0125   | 4.116    | mg/L  | 0.0251   | 0.61%   |
| K 766.490†  | 19033.4        | 10.35    | mg/L            | 0.051    | 20.70    | mg/L  | 0.101    | 0.49%   |
| Mg 279.077† | 12997.8        | 10.34    | mg/L            | 0.069    | 20.69    | mg/L  | 0.137    | 0.66%   |
| Mn 257.610† | 23478.4        | 0.4983   | mg/L            | 0.00273  | 0.9967   | mg/L  | 0.00546  | 0.55%   |
| Mo 202.031† | 23.5           | 0.00128  | mg/L            | 0.000233 | 0.00256  | mg/L  | 0.000466 | 18.21%  |
| Na 589.592† | 129184.7       | 10.29    | mg/L            | 0.030    | 20.58    | mg/L  | 0.061    | 0.30%   |
| Na 330.237† | 322.0          | 11.40    | mg/L            | 0.076    | 22.80    | mg/L  | 0.151    | 0.66%   |
| Ni 231.604† | 1866.7         | 0.5124   | mg/L            | 0.00404  | 1.025    | mg/L  | 0.0081   | 0.79%   |
| Pb 220.353† | 16719.7        | 2.013    | mg/L            | 0.0219   | 4.026    | mg/L  | 0.0438   | 1.09%   |
| Sb 206.836† | 13.1           | 0.00199  | mg/L            | 0.001803 | 0.00398  | mg/L  | 0.003606 | 90.55%  |
| Se 196.026† | 2621.2         | 2.133    | mg/L            | 0.0242   | 4.265    | mg/L  | 0.0484   | 1.14%   |
| Si 288.158† | -4.0           | 0.00072  | mg/L            | 0.001422 | 0.00144  | mg/L  | 0.002845 | 197.59% |
| Sn 189.927† | -22.0          | -0.00168 | mg/L            | 0.000131 | -0.00337 | mg/L  | 0.000262 | 7.80%   |
| Sr 421.552† | 449343.1       | 0.5193   | mg/L            | 0.00102  | 1.039    | mg/L  | 0.0020   | 0.20%   |
| Ti 334.903† | 36.7           | -0.00063 | mg/L            | 0.000189 | -0.00125 | mg/L  | 0.000378 | 30.18%  |
| Tl 190.801† | 3414.8         | 2.060    | mg/L            | 0.0197   | 4.121    | mg/L  | 0.0393   | 0.95%   |
| V 292.402†  | 76994.8        | 0.5043   | mg/L            | 0.00541  | 1.009    | mg/L  | 0.0108   | 1.07%   |
| Zn 206.200† | 2018.6         | 0.5057   | mg/L            | 0.00504  | 1.011    | mg/L  | 0.0101   | 1.00%   |

Sequence No.: 18  
 Sample ID: CV 2

Autosampler Location: 7  
 Date Collected: 4/27/2011 10:09:34 AM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow  
 All 207.0 kPa 0.75 L/min

Mean Data: CV

| Analyte      | Mean Corrected |        | Calib. |          | Sample |       | RSD           |
|--------------|----------------|--------|--------|----------|--------|-------|---------------|
|              | Intensity      | Conc.  | Units  | Std.Dev. | Conc.  | Units |               |
| ScA 357.253  | 2421853.9      | 108.5  | %      | 2.85     |        |       | 2.62%         |
| ScR 361.383  | 433921.7       | 109.0  | %      | 0.89     |        |       | 0.81%         |
| Ag 328.068†  | 180987.7       | 0.9756 | mg/L   | 0.00162  | 0.9756 | mg/L  | 0.00162 0.17% |
| Al 308.215†  | 2848.0         | 2.008  | mg/L   | 0.0460   | 2.008  | mg/L  | 0.0460 2.29%  |
| As 188.979†  | 2764.3         | 1.952  | mg/L   | 0.0380   | 1.952  | mg/L  | 0.0380 1.94%  |
| B 249.677†   | 5620.7         | 1.011  | mg/L   | 0.0154   | 1.011  | mg/L  | 0.0154 1.53%  |
| Ba 233.527†  | 7092.6         | 0.9861 | mg/L   | 0.01000  | 0.9861 | mg/L  | 0.01000 1.01% |
| Be 313.042†  | 882045.5       | 1.005  | mg/L   | 0.0043   | 1.005  | mg/L  | 0.0043 0.43%  |
| Ca 317.933†  | 23751.5        | 2.043  | mg/L   | 0.0374   | 2.043  | mg/L  | 0.0374 1.83%  |
| Cd 228.802†  | 28073.7        | 1.002  | mg/L   | 0.0034   | 1.002  | mg/L  | 0.0034 0.34%  |
| Co 228.616†  | 30306.5        | 0.9578 | mg/L   | 0.00130  | 0.9578 | mg/L  | 0.00130 0.14% |
| Cr 267.716†  | 7949.5         | 0.9959 | mg/L   | 0.01183  | 0.9959 | mg/L  | 0.01183 1.19% |
| Cu 324.752†  | 223683.7       | 0.9652 | mg/L   | 0.00219  | 0.9652 | mg/L  | 0.00219 0.23% |
| Fe 273.955†  | 2593.3         | 2.022  | mg/L   | 0.0393   | 2.022  | mg/L  | 0.0393 1.94%  |
| K 766.490†   | 36753.1        | 19.98  | mg/L   | 0.054    | 19.98  | mg/L  | 0.054 0.27%   |
| Mg 279.077†  | 2479.6         | 1.977  | mg/L   | 0.0267   | 1.977  | mg/L  | 0.0267 1.35%  |
| Mn 257.610†  | 46267.9        | 0.9816 | mg/L   | 0.00945  | 0.9816 | mg/L  | 0.00945 0.96% |
| Mo. 202.031† | 15360.3        | 0.9583 | mg/L   | 0.01920  | 0.9583 | mg/L  | 0.01920 2.00% |
| Na 589.592†  | 633782.7       | 50.48  | mg/L   | 0.174    | 50.48  | mg/L  | 0.174 0.34%   |
| Na 330.237†  | 1453.9         | 52.13  | mg/L   | 0.617    | 52.13  | mg/L  | 0.617 1.18%   |
| Ni 231.604†  | 3762.1         | 1.034  | mg/L   | 0.0133   | 1.034  | mg/L  | 0.0133 1.29%  |
| Pb 220.353†  | 16312.4        | 1.965  | mg/L   | 0.0381   | 1.965  | mg/L  | 0.0381 1.94%  |
| Sb 206.836†  | 4850.9         | 1.948  | mg/L   | 0.0384   | 1.948  | mg/L  | 0.0384 1.97%  |
| Se 196.026†  | 2435.5         | 1.983  | mg/L   | 0.0369   | 1.983  | mg/L  | 0.0369 1.86%  |
| Si 288.158†  | 3370.9         | 2.040  | mg/L   | 0.0281   | 2.040  | mg/L  | 0.0281 1.38%  |
| Sn 189.927†  | 4812.9         | 0.9457 | mg/L   | 0.01716  | 0.9457 | mg/L  | 0.01716 1.81% |
| Sr 421.552†  | 880485.9       | 1.018  | mg/L   | 0.0014   | 1.018  | mg/L  | 0.0014 0.14%  |
| Ti 334.903†  | 29717.3        | 0.9516 | mg/L   | 0.00683  | 0.9516 | mg/L  | 0.00683 0.72% |
| Tl 190.801†  | 3202.2         | 1.934  | mg/L   | 0.0331   | 1.934  | mg/L  | 0.0331 1.71%  |
| V 292.402†   | 144342.8       | 0.9461 | mg/L   | 0.00403  | 0.9461 | mg/L  | 0.00403 0.43% |
| Zn 206.200†  | 4000.6         | 1.002  | mg/L   | 0.0128   | 1.002  | mg/L  | 0.0128 1.28%  |

Sequence No.: 19

Sample ID: CB 2

Autosampler Location: 1

Date Collected: 4/27/2011 10:12:35 AM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CB

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

## Mean Data: CB

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2362984.7      | 105.9    | %               | 0.37     |          |       |          | 0.35%   |
| ScR 361.383 | 423068.0       | 106.3    | %               | 0.61     |          |       |          | 0.57%   |
| Ag 328.068† | 79.7           | 0.00043  | mg/L            | 0.000132 | 0.00043  | mg/L  | 0.000132 | 30.72%  |
| Al 308.215† | 27.2           | 0.01949  | mg/L            | 0.006547 | 0.01949  | mg/L  | 0.006547 | 33.59%  |
| As 188.979† | 3.0            | 0.00211  | mg/L            | 0.002395 | 0.00211  | mg/L  | 0.002395 | 113.28% |
| B 249.677†  | 12.3           | 0.00221  | mg/L            | 0.000769 | 0.00221  | mg/L  | 0.000769 | 34.87%  |
| Ba 233.527† | -4.5           | -0.00063 | mg/L            | 0.000305 | -0.00063 | mg/L  | 0.000305 | 48.60%  |
| Be 313.042† | 35.6           | 0.00004  | mg/L            | 0.000016 | 0.00004  | mg/L  | 0.000016 | 38.66%  |
| Ca 317.933† | 39.9           | 0.00343  | mg/L            | 0.001255 | 0.00343  | mg/L  | 0.001255 | 36.57%  |
| Cd 228.802† | 0.7            | 0.00002  | mg/L            | 0.000119 | 0.00002  | mg/L  | 0.000119 | 656.89% |
| Co 228.616† | 10.9           | 0.00035  | mg/L            | 0.000051 | 0.00035  | mg/L  | 0.000051 | 14.73%  |
| Cr 267.716† | -1.4           | -0.00018 | mg/L            | 0.001188 | -0.00018 | mg/L  | 0.001188 | 674.14% |
| Cu 324.752† | -17.7          | -0.00008 | mg/L            | 0.000074 | -0.00008 | mg/L  | 0.000074 | 97.56%  |
| Fe 273.955† | 2.1            | 0.00162  | mg/L            | 0.001865 | 0.00162  | mg/L  | 0.001865 | 115.10% |
| K 766.490†  | 91.3           | 0.04965  | mg/L            | 0.019059 | 0.04965  | mg/L  | 0.019059 | 38.39%  |
| Mg 279.077† | 15.1           | 0.01205  | mg/L            | 0.003076 | 0.01205  | mg/L  | 0.003076 | 25.53%  |
| Mn 257.610† | -4.6           | -0.00010 | mg/L            | 0.000080 | -0.00010 | mg/L  | 0.000080 | 82.03%  |
| Mo 202.031† | -9.4           | -0.00059 | mg/L            | 0.000298 | -0.00059 | mg/L  | 0.000298 | 50.94%  |
| Na 589.592† | 358.4          | 0.02855  | mg/L            | 0.004665 | 0.02855  | mg/L  | 0.004665 | 16.34%  |
| Na 330.237† | 22.1           | 0.7909   | mg/L            | 0.24053  | 0.7909   | mg/L  | 0.24053  | 30.41%  |
| Ni 231.604† | 4.5            | 0.00123  | mg/L            | 0.001480 | 0.00123  | mg/L  | 0.001480 | 120.79% |
| Pb 220.353† | 12.6           | 0.00152  | mg/L            | 0.000582 | 0.00152  | mg/L  | 0.000582 | 38.20%  |
| Sb 206.836† | 2.7            | 0.00109  | mg/L            | 0.001630 | 0.00109  | mg/L  | 0.001630 | 149.96% |
| Se 196.026† | 2.7            | 0.00224  | mg/L            | 0.000905 | 0.00224  | mg/L  | 0.000905 | 40.48%  |
| Si 288.158† | -0.5           | -0.00029 | mg/L            | 0.002213 | -0.00029 | mg/L  | 0.002213 | 772.70% |
| Sn 189.927† | 5.1            | 0.00099  | mg/L            | 0.000378 | 0.00099  | mg/L  | 0.000378 | 37.99%  |
| Sr 421.552† | 83.1           | 0.00010  | mg/L            | 0.000037 | 0.00010  | mg/L  | 0.000037 | 38.76%  |
| Ti 334.903† | -41.2          | -0.00132 | mg/L            | 0.000322 | -0.00132 | mg/L  | 0.000322 | 24.37%  |
| Tl 190.801† | 4.9            | 0.00295  | mg/L            | 0.002154 | 0.00295  | mg/L  | 0.002154 | 73.03%  |
| V 292.402†  | 28.7           | 0.00019  | mg/L            | 0.000225 | 0.00019  | mg/L  | 0.000225 | 120.92% |
| Zn 206.200† | 3.1            | 0.00077  | mg/L            | 0.000368 | 0.00077  | mg/L  | 0.000368 | 47.73%  |

Sequence No.: 20  
Sample ID: SS71 MB2 TWC

Autosampler Location: 314  
Date Collected: 4/27/2011 10:16:47 AM  
Data Type: Original

Dilution: 1X

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Nebulizer Parameters: SS71 MB2 TWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

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Mean Data: SS71 MB2 TWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2356601.9      | 105.6    | %               | 1.29     |          |       |          | 1.22%   |
| ScR 361.383 | 421966.6       | 106.0    | %               | 2.27     |          |       |          | 2.14%   |
| Ag 328.068† | 106.1          | 0.00057  | mg/L            | 0.000211 | 0.00057  | mg/L  | 0.000211 | 36.90%  |
| Al 308.215† | 30.4           | 0.02176  | mg/L            | 0.009706 | 0.02176  | mg/L  | 0.009706 | 44.60%  |
| As 188.979† | 1.3            | 0.00091  | mg/L            | 0.001706 | 0.00091  | mg/L  | 0.001706 | 187.03% |
| B 249.677†  | 9.3            | 0.00167  | mg/L            | 0.001631 | 0.00167  | mg/L  | 0.001631 | 97.69%  |
| Ba 233.527† | -4.8           | -0.00067 | mg/L            | 0.000674 | -0.00067 | mg/L  | 0.000674 | 101.31% |
| Be 313.042† | -26.9          | -0.00003 | mg/L            | 0.000050 | -0.00003 | mg/L  | 0.000050 | 162.56% |
| Ca 317.933† | 113.2          | 0.00974  | mg/L            | 0.001392 | 0.00974  | mg/L  | 0.001392 | 14.30%  |
| Cd 228.802† | -3.6           | -0.00013 | mg/L            | 0.000143 | -0.00013 | mg/L  | 0.000143 | 109.98% |
| Co 228.616† | 12.4           | 0.00039  | mg/L            | 0.000093 | 0.00039  | mg/L  | 0.000093 | 23.82%  |
| Cr 267.716† | -4.9           | -0.00061 | mg/L            | 0.000718 | -0.00061 | mg/L  | 0.000718 | 117.99% |
| Cu 324.752† | -2.3           | -0.00001 | mg/L            | 0.000090 | -0.00001 | mg/L  | 0.000090 | 970.78% |
| Fe 273.955† | 3.3            | 0.00256  | mg/L            | 0.001333 | 0.00256  | mg/L  | 0.001333 | 52.13%  |
| K 766.490†  | 87.2           | 0.04740  | mg/L            | 0.015156 | 0.04740  | mg/L  | 0.015156 | 31.98%  |
| Mg 279.077† | 12.7           | 0.01011  | mg/L            | 0.002161 | 0.01011  | mg/L  | 0.002161 | 21.38%  |
| Mn 257.610† | -3.6           | -0.00008 | mg/L            | 0.000037 | -0.00008 | mg/L  | 0.000037 | 48.27%  |
| Mo 202.031† | -13.7          | -0.00086 | mg/L            | 0.000265 | -0.00086 | mg/L  | 0.000265 | 31.00%  |
| Na 589.592† | 272.6          | 0.02171  | mg/L            | 0.004830 | 0.02171  | mg/L  | 0.004830 | 22.24%  |
| Na 330.237† | 26.4           | 0.9458   | mg/L            | 0.56072  | 0.9458   | mg/L  | 0.56072  | 59.29%  |
| Ni 231.604† | 8.7            | 0.00238  | mg/L            | 0.000925 | 0.00238  | mg/L  | 0.000925 | 38.86%  |
| Pb 220.353† | 11.3           | 0.00136  | mg/L            | 0.000424 | 0.00136  | mg/L  | 0.000424 | 31.25%  |
| Sb 206.836† | 1.3            | 0.00053  | mg/L            | 0.000566 | 0.00053  | mg/L  | 0.000566 | 107.40% |
| Se 196.026† | 6.4            | 0.00524  | mg/L            | 0.001361 | 0.00524  | mg/L  | 0.001361 | 25.98%  |
| Si 288.158† | 7.3            | 0.00439  | mg/L            | 0.001698 | 0.00439  | mg/L  | 0.001698 | 38.66%  |
| Sn 189.927† | 0.5            | 0.00010  | mg/L            | 0.000303 | 0.00010  | mg/L  | 0.000303 | 297.36% |
| Sr 421.552† | 58.1           | 0.00007  | mg/L            | 0.000017 | 0.00007  | mg/L  | 0.000017 | 25.80%  |
| Ti 334.903† | -29.7          | -0.00095 | mg/L            | 0.000965 | -0.00095 | mg/L  | 0.000965 | 101.36% |
| Tl 190.801† | 3.5            | 0.00212  | mg/L            | 0.001946 | 0.00212  | mg/L  | 0.001946 | 91.62%  |
| V 292.402†  | 9.7            | 0.00006  | mg/L            | 0.000156 | 0.00006  | mg/L  | 0.000156 | 259.95% |
| Zn 206.200† | 7.5            | 0.00188  | mg/L            | 0.000326 | 0.00188  | mg/L  | 0.000326 | 17.32%  |

Sequence No.: 21  
Sample ID: SS71 T TWC

Autosampler Location: 315  
Date Collected: 4/27/2011 10:21:00 AM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS71 T TWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 T TWC

| Analyte     | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD     |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 2383707.7                | 106.8 %            | 0.68     |                    |          | 0.64%   |
| ScR 361.383 | 426671.8                 | 107.2 %            | 0.56     |                    |          | 0.52%   |
| Ag 328.068† | 125.4                    | 0.00068 mg/L       | 0.000158 | 0.00068 mg/L       | 0.000158 | 23.31%  |
| Al 308.215† | 91.2                     | 0.06539 mg/L       | 0.006793 | 0.06539 mg/L       | 0.006793 | 10.39%  |
| As 188.979† | 1.9                      | 0.00133 mg/L       | 0.002225 | 0.00133 mg/L       | 0.002225 | 166.87% |
| B 249.677†  | 2.7                      | 0.00048 mg/L       | 0.000076 | 0.00048 mg/L       | 0.000076 | 16.03%  |
| Ba 233.527† | -0.1                     | -0.00002 mg/L      | 0.000390 | -0.00002 mg/L      | 0.000390 | >999.9% |
| Be 313.042† | -60.1                    | -0.00007 mg/L      | 0.000011 | -0.00007 mg/L      | 0.000011 | 16.71%  |
| Ca 317.933† | 754.7                    | 0.06492 mg/L       | 0.000849 | 0.06492 mg/L       | 0.000849 | 1.31%   |
| Cd 228.802† | -4.4                     | -0.00016 mg/L      | 0.000112 | -0.00016 mg/L      | 0.000112 | 68.54%  |
| Co 228.616† | 11.4                     | 0.00036 mg/L       | 0.000076 | 0.00036 mg/L       | 0.000076 | 21.01%  |
| Cr 267.716† | 2.2                      | 0.00027 mg/L       | 0.000445 | 0.00027 mg/L       | 0.000445 | 162.40% |
| Cu 324.752† | 4.2                      | 0.00002 mg/L       | 0.000088 | 0.00002 mg/L       | 0.000088 | 435.95% |
| Fe 273.955† | 60.7                     | 0.04748 mg/L       | 0.001819 | 0.04748 mg/L       | 0.001819 | 3.83%   |
| K 766.490†  | 79.4                     | 0.04318 mg/L       | 0.023727 | 0.04318 mg/L       | 0.023727 | 54.95%  |
| Mg 279.077† | 31.9                     | 0.02535 mg/L       | 0.002849 | 0.02535 mg/L       | 0.002849 | 11.24%  |
| Mn 257.610† | 46.1                     | 0.00098 mg/L       | 0.000066 | 0.00098 mg/L       | 0.000066 | 6.74%   |
| Mo 202.031† | -7.3                     | -0.00046 mg/L      | 0.000324 | -0.00046 mg/L      | 0.000324 | 71.01%  |
| Na 589.592† | 1762.0                   | 0.1404 mg/L        | 0.00164  | 0.1404 mg/L        | 0.00164  | 1.17%   |
| Na 330.237† | 24.0                     | 0.8575 mg/L        | 0.37932  | 0.8575 mg/L        | 0.37932  | 44.24%  |
| Ni 231.604† | 5.4                      | 0.00147 mg/L       | 0.001553 | 0.00147 mg/L       | 0.001553 | 105.75% |
| Pb 220.353† | 10.1                     | 0.00123 mg/L       | 0.000675 | 0.00123 mg/L       | 0.000675 | 55.07%  |
| Sb 206.836† | -1.1                     | -0.00044 mg/L      | 0.000954 | -0.00044 mg/L      | 0.000954 | 218.65% |
| Se 196.026† | 8.8                      | 0.00717 mg/L       | 0.004071 | 0.00717 mg/L       | 0.004071 | 56.80%  |
| Si 288.158† | 256.8                    | 0.1549 mg/L        | 0.00329  | 0.1549 mg/L        | 0.00329  | 2.12%   |
| Sn 189.927† | 2.9                      | 0.00059 mg/L       | 0.000617 | 0.00059 mg/L       | 0.000617 | 104.40% |
| Sr 421.552† | 217.5                    | 0.00025 mg/L       | 0.000016 | 0.00025 mg/L       | 0.000016 | 6.45%   |
| Ti 334.903† | 10.7                     | 0.00033 mg/L       | 0.000394 | 0.00033 mg/L       | 0.000394 | 118.13% |
| Tl 190.801† | 3.1                      | 0.00186 mg/L       | 0.002015 | 0.00186 mg/L       | 0.002015 | 108.63% |
| V 292.402†  | 41.9                     | 0.00027 mg/L       | 0.000050 | 0.00027 mg/L       | 0.000050 | 18.60%  |
| Zn 206.200† | 11.0                     | 0.00275 mg/L       | 0.000571 | 0.00275 mg/L       | 0.000571 | 20.81%  |



Sequence No.: 22  
Sample ID: SS71 A SWC

Autosampler Location: 316  
Date Collected: 4/27/2011 10:25:11 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 A SWC

Analyte Back Pressure Flow  
All 207.0 kPa 0.75 L/min

Mean Data: SS71 A SWC

| Analyte     | Mean Corrected |         | Calib.<br>Units | Std.Dev. | Sample  |       | RSD             |
|-------------|----------------|---------|-----------------|----------|---------|-------|-----------------|
|             | Intensity      | Conc.   |                 |          | Conc.   | Units |                 |
| ScA 357.253 | 2458768.5      | 110.2   | %               | 0.69     |         |       | 0.63%           |
| ScR 361.383 | 437012.4       | 109.8   | %               | 2.26     |         |       | 2.06%           |
| Ag 328.068† | 170.4          | 0.00054 | mg/L            | 0.000090 | 0.00107 | mg/L  | 0.000181 16.81% |
| Al 308.215† | 151199.0       | 108.3   | mg/L            | 0.09     | 216.7   | mg/L  | 0.19 0.09%      |
| As 188.979† | 28.4           | 0.07250 | mg/L            | 0.003712 | 0.1450  | mg/L  | 0.00742 5.12%   |
| B 249.677†  | 86.3           | 0.01538 | mg/L            | 0.001319 | 0.03075 | mg/L  | 0.002637 8.57%  |
| Ba 233.527† | 3746.4         | 0.5122  | mg/L            | 0.00817  | 1.024   | mg/L  | 0.0163 1.59%    |
| Be 313.042† | 1646.1         | 0.00166 | mg/L            | 0.000123 | 0.00331 | mg/L  | 0.000245 7.40%  |
| Ca 317.933† | 576332.9       | 49.58   | mg/L            | 0.133    | 99.15   | mg/L  | 0.266 0.27%     |
| Cd 228.802† | 60.4           | 0.00226 | mg/L            | 0.000040 | 0.00452 | mg/L  | 0.000080 1.78%  |
| Co 228.616† | 2298.4         | 0.06126 | mg/L            | 0.000313 | 0.1225  | mg/L  | 0.00063 0.51%   |
| Cr 267.716† | 2256.7         | 0.2853  | mg/L            | 0.00462  | 0.5707  | mg/L  | 0.00924 1.62%   |
| Cu 324.752† | 51387.3        | 0.2262  | mg/L            | 0.00056  | 0.4523  | mg/L  | 0.00111 0.25%   |
| Fe 273.955† | 170843.2       | 133.6   | mg/L            | 0.34     | 267.1   | mg/L  | 0.67 0.25%      |
| K 766.490†  | 9671.0         | 5.258   | mg/L            | 0.0287   | 10.52   | mg/L  | 0.057 0.55%     |
| Mg 279.077† | 49605.6        | 39.41   | mg/L            | 0.114    | 78.82   | mg/L  | 0.228 0.29%     |
| Mn 257.610† | 125473.1       | 2.661   | mg/L            | 0.0049   | 5.322   | mg/L  | 0.0098 0.18%    |
| Mo 202.031† | 111.6          | 0.00604 | mg/L            | 0.000534 | 0.01209 | mg/L  | 0.001068 8.83%  |
| Na 589.592† | 29747.2        | 2.369   | mg/L            | 0.0850   | 4.739   | mg/L  | 0.1701 3.59%    |
| Na 330.237† | 56.6           | 4.265   | mg/L            | 0.2083   | 8.530   | mg/L  | 0.4165 4.88%    |
| Ni 231.604† | 1000.7         | 0.2747  | mg/L            | 0.00464  | 0.5494  | mg/L  | 0.00928 1.69%   |
| Pb 220.353† | 1058.6         | 0.1410  | mg/L            | 0.00108  | 0.2820  | mg/L  | 0.00216 0.77%   |
| Sb 206.836† | -5.6           | 0.00684 | mg/L            | 0.001398 | 0.01367 | mg/L  | 0.002796 20.45% |
| Se 196.026† | 49.0           | 0.02901 | mg/L            | 0.002188 | 0.05801 | mg/L  | 0.004376 7.54%  |
| Si 288.158† | 12294.9        | 7.423   | mg/L            | 0.1306   | 14.85   | mg/L  | 0.261 1.76%     |
| Sn 189.927† | -73.5          | 0.00119 | mg/L            | 0.000402 | 0.00237 | mg/L  | 0.000804 33.85% |
| Sr 421.552† | 245982.5       | 0.2843  | mg/L            | 0.00061  | 0.5686  | mg/L  | 0.00121 0.21%   |
| Ti 334.903† | 218889.9       | 7.013   | mg/L            | 0.0155   | 14.03   | mg/L  | 0.031 0.22%     |
| Tl 190.801† | -15.1          | 0.00803 | mg/L            | 0.002113 | 0.01605 | mg/L  | 0.004226 26.33% |
| V 292.402†  | 62678.4        | 0.3951  | mg/L            | 0.00086  | 0.7902  | mg/L  | 0.00173 0.22%   |
| Zn 206.200† | 2025.3         | 0.5073  | mg/L            | 0.00837  | 1.015   | mg/L  | 0.0167 1.65%    |

Sequence No.: 23  
Sample ID: SS71 B SWC

Autosampler Location: 317  
Date Collected: 4/27/2011 10:29:09 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 B SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 B SWC

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | Std.Dev. | RSD    |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    |                       |          | Conc.    | Units |          |        |
| ScA 357.253 | 2449549.0      | 109.8    | %                     | 1.26     |          |       |          | 1.15%  |
| ScR 361.383 | 446100.2       | 112.1    | %                     | 1.21     |          |       |          | 1.08%  |
| Ag 328.068† | 142.0          | 0.00049  | mg/L                  | 0.000217 | 0.00097  | mg/L  | 0.000433 | 44.57% |
| Al 308.215† | 147314.7       | 105.5    | mg/L                  | 0.43     | 211.1    | mg/L  | 0.85     | 0.40%  |
| As 188.979† | 67.8           | 0.09141  | mg/L                  | 0.000619 | 0.1828   | mg/L  | 0.00124  | 0.68%  |
| B 249.677†  | 92.6           | 0.01654  | mg/L                  | 0.001279 | 0.03308  | mg/L  | 0.002559 | 7.74%  |
| Ba 233.527† | 3079.2         | 0.4200   | mg/L                  | 0.00490  | 0.8401   | mg/L  | 0.00981  | 1.17%  |
| Be 313.042† | 1723.9         | 0.00177  | mg/L                  | 0.000023 | 0.00353  | mg/L  | 0.000047 | 1.33%  |
| Ca 317.933† | 389143.1       | 33.47    | mg/L                  | 0.189    | 66.95    | mg/L  | 0.378    | 0.56%  |
| Cd 228.802† | 50.2           | 0.00181  | mg/L                  | 0.000248 | 0.00361  | mg/L  | 0.000497 | 13.76% |
| Co 228.616† | 1979.5         | 0.05323  | mg/L                  | 0.000326 | 0.1065   | mg/L  | 0.00065  | 0.61%  |
| Cr 267.716† | 2232.5         | 0.2824   | mg/L                  | 0.00388  | 0.5647   | mg/L  | 0.00776  | 1.37%  |
| Cu 324.752† | 28852.6        | 0.1289   | mg/L                  | 0.00105  | 0.2577   | mg/L  | 0.00209  | 0.81%  |
| Fe 273.955† | 158971.1       | 124.3    | mg/L                  | 0.53     | 248.6    | mg/L  | 1.07     | 0.43%  |
| K 766.490†  | 8247.3         | 4.484    | mg/L                  | 0.0098   | 8.969    | mg/L  | 0.0196   | 0.22%  |
| Mg 279.077† | 45269.3        | 35.96    | mg/L                  | 0.166    | 71.93    | mg/L  | 0.333    | 0.46%  |
| Mn 257.610† | 95798.8        | 2.032    | mg/L                  | 0.0099   | 4.063    | mg/L  | 0.0198   | 0.49%  |
| Mo 202.031† | 110.6          | 0.00628  | mg/L                  | 0.000174 | 0.01255  | mg/L  | 0.000348 | 2.77%  |
| Na 589.592† | 17975.0        | 1.432    | mg/L                  | 0.0083   | 2.864    | mg/L  | 0.0166   | 0.58%  |
| Na 330.237† | 35.7           | 3.139    | mg/L                  | 0.0532   | 6.278    | mg/L  | 0.1063   | 1.69%  |
| Ni 231.604† | 1078.4         | 0.2960   | mg/L                  | 0.00415  | 0.5920   | mg/L  | 0.00829  | 1.40%  |
| Pb 220.353† | 909.5          | 0.1232   | mg/L                  | 0.00059  | 0.2463   | mg/L  | 0.00117  | 0.48%  |
| Sb 206.836† | -8.5           | 0.00368  | mg/L                  | 0.001047 | 0.00736  | mg/L  | 0.002094 | 28.44% |
| Se 196.026† | 40.4           | 0.02478  | mg/L                  | 0.006656 | 0.04955  | mg/L  | 0.013311 | 26.86% |
| Si 288.158† | 14362.1        | 8.670    | mg/L                  | 0.0899   | 17.34    | mg/L  | 0.180    | 1.04%  |
| Sn 189.927† | -59.9          | -0.00085 | mg/L                  | 0.000845 | -0.00169 | mg/L  | 0.001690 | 99.97% |
| Sr 421.552† | 174598.4       | 0.2018   | mg/L                  | 0.00080  | 0.4036   | mg/L  | 0.00161  | 0.40%  |
| Ti 334.903† | 179393.4       | 5.749    | mg/L                  | 0.0229   | 11.50    | mg/L  | 0.046    | 0.40%  |
| Tl 190.801† | -14.6          | 0.00715  | mg/L                  | 0.000769 | 0.01429  | mg/L  | 0.001537 | 10.76% |
| V 292.402†  | 56277.5        | 0.3548   | mg/L                  | 0.00345  | 0.7096   | mg/L  | 0.00689  | 0.97%  |
| Zn 206.200† | 1284.1         | 0.3216   | mg/L                  | 0.00317  | 0.6433   | mg/L  | 0.00635  | 0.99%  |

Sequence No.: 24  
Sample ID: SS71 C SWC

Autosampler Location: 318  
Date Collected: 4/27/2011 10:33:06 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 C SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: SS71 C SWC

| Analyte     | Mean Corrected |         | Calib.<br>Units | Std.Dev. | Sample  |       | Std.Dev. | RSD     |
|-------------|----------------|---------|-----------------|----------|---------|-------|----------|---------|
|             | Intensity      | Conc.   |                 |          | Conc.   | Units |          |         |
| ScA 357.253 | 2437112.4      | 109.2   | %               | 1.45     |         |       |          | 1.33%   |
| ScR 361.383 | 441429.7       | 110.9   | %               | 1.19     |         |       |          | 1.07%   |
| Ag 328.068† | 120.9          | 0.00039 | mg/L            | 0.000226 | 0.00077 | mg/L  | 0.000451 | 58.58%  |
| Al 308.215† | 171420.3       | 122.8   | mg/L            | 0.38     | 245.6   | mg/L  | 0.76     | 0.31%   |
| As 188.979† | 23.8           | 0.06773 | mg/L            | 0.003716 | 0.1355  | mg/L  | 0.00743  | 5.49%   |
| B 249.677†  | 79.1           | 0.01407 | mg/L            | 0.001029 | 0.02814 | mg/L  | 0.002058 | 7.32%   |
| Ba 233.527† | 3724.3         | 0.5092  | mg/L            | 0.00605  | 1.018   | mg/L  | 0.0121   | 1.19%   |
| Be 313.042† | 1758.5         | 0.00180 | mg/L            | 0.000042 | 0.00360 | mg/L  | 0.000085 | 2.35%   |
| Ca 317.933† | 400198.1       | 34.43   | mg/L            | 0.122    | 68.85   | mg/L  | 0.244    | 0.35%   |
| Cd 228.802† | 47.6           | 0.00184 | mg/L            | 0.000128 | 0.00368 | mg/L  | 0.000255 | 6.94%   |
| Co 228.616† | 2322.4         | 0.06259 | mg/L            | 0.000934 | 0.1252  | mg/L  | 0.00187  | 1.49%   |
| Cr 267.716† | 2701.2         | 0.3413  | mg/L            | 0.00263  | 0.6826  | mg/L  | 0.00527  | 0.77%   |
| Cu 324.752† | 27268.6        | 0.1222  | mg/L            | 0.00132  | 0.2443  | mg/L  | 0.00264  | 1.08%   |
| Fe 273.955† | 170249.4       | 133.1   | mg/L            | 0.51     | 266.2   | mg/L  | 1.03     | 0.39%   |
| K 766.490†  | 8714.3         | 4.738   | mg/L            | 0.0303   | 9.477   | mg/L  | 0.0607   | 0.64%   |
| Mg 279.077† | 48595.5        | 38.61   | mg/L            | 0.160    | 77.21   | mg/L  | 0.320    | 0.41%   |
| Mn 257.610† | 93314.6        | 1.979   | mg/L            | 0.0106   | 3.958   | mg/L  | 0.0211   | 0.53%   |
| Mo 202.031† | 87.3           | 0.00481 | mg/L            | 0.000020 | 0.00962 | mg/L  | 0.000039 | 0.41%   |
| Na 589.592† | 19244.0        | 1.533   | mg/L            | 0.0068   | 3.066   | mg/L  | 0.0135   | 0.44%   |
| Na 330.237† | 34.9           | 3.407   | mg/L            | 0.1054   | 6.813   | mg/L  | 0.2108   | 3.09%   |
| Ni 231.604† | 1175.0         | 0.3225  | mg/L            | 0.00387  | 0.6450  | mg/L  | 0.00773  | 1.20%   |
| Pb 220.353† | 904.8          | 0.1256  | mg/L            | 0.00031  | 0.2512  | mg/L  | 0.00061  | 0.24%   |
| Sb 206.836† | -12.0          | 0.00317 | mg/L            | 0.002463 | 0.00633 | mg/L  | 0.004925 | 77.76%  |
| Se 196.026† | 35.4           | 0.02030 | mg/L            | 0.008298 | 0.04060 | mg/L  | 0.016596 | 40.88%  |
| Si 288.158† | 14393.9        | 8.690   | mg/L            | 0.0826   | 17.38   | mg/L  | 0.165    | 0.95%   |
| Sn 189.927† | -57.6          | 0.00017 | mg/L            | 0.001533 | 0.00034 | mg/L  | 0.003065 | 890.81% |
| Sr 421.552† | 202848.1       | 0.2344  | mg/L            | 0.00104  | 0.4689  | mg/L  | 0.00207  | 0.44%   |
| Ti 334.903† | 207772.8       | 6.659   | mg/L            | 0.0308   | 13.32   | mg/L  | 0.062    | 0.46%   |
| Tl 190.801† | -12.1          | 0.00980 | mg/L            | 0.006293 | 0.01960 | mg/L  | 0.012585 | 64.22%  |
| V 292.402†  | 58407.2        | 0.3677  | mg/L            | 0.00496  | 0.7353  | mg/L  | 0.00991  | 1.35%   |
| Zn 206.200† | 1415.1         | 0.3545  | mg/L            | 0.00286  | 0.7089  | mg/L  | 0.00572  | 0.81%   |

Sequence No.: 25

Sample ID: SS71 IDUP SWC

Autosampler Location: 319

Date Collected: 4/27/2011 10:37:03 AM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 IDUP SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: SS71 IDUP SWC

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|---------|
|             | Intensity      |          |                       |          | Conc.    | Units |          |         |
| ScA 357.253 | 2425523.5      |          | 108.7 %               | 1.41     |          |       |          | 1.30%   |
| ScR 361.383 | 441544.1       |          | 110.9 %               | 1.13     |          |       |          | 1.01%   |
| Ag 328.068† | -24.3          | -0.00033 | mg/L                  | 0.000474 | -0.00067 | mg/L  | 0.000949 | 142.28% |
| Al 308.215† | 209018.2       |          | 149.8 mg/L            | 0.18     | 299.5    | mg/L  | 0.36     | 0.12%   |
| As 188.979† | -15.6          | 0.04520  | mg/L                  | 0.004765 | 0.09039  | mg/L  | 0.009531 | 10.54%  |
| B 249.677†  | 55.6           | 0.00983  | mg/L                  | 0.000641 | 0.01966  | mg/L  | 0.001282 | 6.52%   |
| Ba 233.527† | 3710.4         | 0.5052   | mg/L                  | 0.00806  | 1.010    | mg/L  | 0.0161   | 1.60%   |
| Be 313.042† | 2011.7         | 0.00205  | mg/L                  | 0.000065 | 0.00411  | mg/L  | 0.000131 | 3.19%   |
| Ca 317.933† | 401830.7       |          | 34.57 mg/L            | 0.030    | 69.13    | mg/L  | 0.060    | 0.09%   |
| Cd 228.802† | 33.0           | 0.00145  | mg/L                  | 0.000156 | 0.00291  | mg/L  | 0.000313 | 10.76%  |
| Co 228.616† | 2430.3         | 0.06496  | mg/L                  | 0.000898 | 0.1299   | mg/L  | 0.00180  | 1.38%   |
| Cr 267.716† | 2843.3         | 0.3601   | mg/L                  | 0.00473  | 0.7202   | mg/L  | 0.00945  | 1.31%   |
| Cu 324.752† | 40033.7        | 0.1786   | mg/L                  | 0.00231  | 0.3572   | mg/L  | 0.00462  | 1.29%   |
| Fe 273.955† | 210629.8       |          | 164.7 mg/L            | 0.16     | 329.3    | mg/L  | 0.33     | 0.10%   |
| K 766.490†  | 9771.6         |          | 5.313 mg/L            | 0.0129   | 10.63    | mg/L  | 0.026    | 0.24%   |
| Mg 279.077† | 56666.0        |          | 45.01 mg/L            | 0.086    | 90.03    | mg/L  | 0.173    | 0.19%   |
| Mn 257.610† | 80113.6        |          | 1.699 mg/L            | 0.0027   | 3.398    | mg/L  | 0.0054   | 0.16%   |
| Mo 202.031† | 42.7           | 0.00202  | mg/L                  | 0.000116 | 0.00405  | mg/L  | 0.000233 | 5.75%   |
| Na 589.592† | 19564.1        |          | 1.558 mg/L            | 0.0029   | 3.117    | mg/L  | 0.0057   | 0.18%   |
| Na 330.237† | 22.3           |          | 3.191 mg/L            | 0.0520   | 6.383    | mg/L  | 0.1040   | 1.63%   |
| Ni 231.604† | 1403.0         |          | 0.3851 mg/L           | 0.00589  | 0.7702   | mg/L  | 0.01177  | 1.53%   |
| Pb 220.353† | -8.6           | 0.01902  | mg/L                  | 0.001060 | 0.03804  | mg/L  | 0.002120 | 5.57%   |
| Sb 206.836† | -11.4          | 0.00440  | mg/L                  | 0.000581 | 0.00879  | mg/L  | 0.001161 | 13.20%  |
| Se 196.026† | 35.2           | 0.01960  | mg/L                  | 0.006521 | 0.03919  | mg/L  | 0.013041 | 33.27%  |
| Si 288.158† | 9234.1         |          | 5.577 mg/L            | 0.0782   | 11.15    | mg/L  | 0.156    | 1.40%   |
| Sn 189.927† | -72.8          | -0.00254 | mg/L                  | 0.000874 | -0.00509 | mg/L  | 0.001748 | 34.36%  |
| Sr 421.552† | 244364.6       |          | 0.2824 mg/L           | 0.00008  | 0.5648   | mg/L  | 0.00015  | 0.03%   |
| Ti 334.903† | 227790.4       |          | 7.301 mg/L            | 0.0126   | 14.60    | mg/L  | 0.025    | 0.17%   |
| Tl 190.801† | -23.9          | 0.00680  | mg/L                  | 0.008249 | 0.01361  | mg/L  | 0.016497 | 121.24% |
| V 292.402†  | 68425.1        |          | 0.4300 mg/L           | 0.00688  | 0.8600   | mg/L  | 0.01376  | 1.60%   |
| Zn 206.200† | 1127.7         |          | 0.2824 mg/L           | 0.00319  | 0.5649   | mg/L  | 0.00638  | 1.13%   |

Sequence No.: 26  
Sample ID: SS71 I SWC

Autosampler Location: 320  
Date Collected: 4/27/2011 10:41:01 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 I SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 I SWC

| Analyte     | Mean Corrected |          | Calib. |          | Sample   |       | RSD              |
|-------------|----------------|----------|--------|----------|----------|-------|------------------|
|             | Intensity      | Conc.    | Units  | Std.Dev. | Conc.    | Units |                  |
| ScA 357.253 | 2477230.8      | 111.0    | %      | 0.03     |          |       | 0.03%            |
| ScR 361.383 | 446022.9       | 112.1    | %      | 0.47     |          |       | 0.42%            |
| Ag 328.068† | 62.5           | 0.00017  | mg/L   | 0.000105 | 0.00034  | mg/L  | 0.000211 62.82%  |
| Al 308.215† | 206880.2       | 148.2    | mg/L   | 0.26     | 296.5    | mg/L  | 0.52 0.18%       |
| As 188.979† | -19.4          | 0.04375  | mg/L   | 0.002824 | 0.08750  | mg/L  | 0.005647 6.45%   |
| B 249.677†  | 55.9           | 0.00988  | mg/L   | 0.000508 | 0.01977  | mg/L  | 0.001016 5.14%   |
| Ba 233.527† | 3773.1         | 0.5145   | mg/L   | 0.00081  | 1.029    | mg/L  | 0.0016 0.16%     |
| Be 313.042† | 2862.4         | 0.00302  | mg/L   | 0.000008 | 0.00605  | mg/L  | 0.000017 0.27%   |
| Ca 317.933† | 418203.7       | 35.97    | mg/L   | 0.061    | 71.95    | mg/L  | 0.121 0.17%      |
| Cd 228.802† | 42.2           | 0.00180  | mg/L   | 0.000033 | 0.00359  | mg/L  | 0.000066 1.84%   |
| Co 228.616† | 2374.9         | 0.06292  | mg/L   | 0.000381 | 0.1258   | mg/L  | 0.00076 0.61%    |
| Cr 267.716† | 2783.3         | 0.3523   | mg/L   | 0.00085  | 0.7046   | mg/L  | 0.00170 0.24%    |
| Cu 324.752† | 38852.8        | 0.1730   | mg/L   | 0.00148  | 0.3460   | mg/L  | 0.00295 0.85%    |
| Fe 273.955† | 198962.8       | 155.5    | mg/L   | 0.44     | 311.1    | mg/L  | 0.88 0.28%       |
| K 766.490†  | 8949.7         | 4.866    | mg/L   | 0.0325   | 9.733    | mg/L  | 0.0649 0.67%     |
| Mg 279.077† | 53622.7        | 42.60    | mg/L   | 0.100    | 85.19    | mg/L  | 0.199 0.23%      |
| Mn 257.610† | 71072.5        | 1.507    | mg/L   | 0.0029   | 3.015    | mg/L  | 0.0058 0.19%     |
| Mo 202.031† | 45.5           | 0.00217  | mg/L   | 0.000236 | 0.00434  | mg/L  | 0.000472 10.88%  |
| Na 589.592† | 24721.5        | 1.969    | mg/L   | 0.0048   | 3.938    | mg/L  | 0.0097 0.25%     |
| Na 330.237† | 35.7           | 3.728    | mg/L   | 0.1787   | 7.456    | mg/L  | 0.3575 4.79%     |
| Ni 231.604† | 1399.6         | 0.3842   | mg/L   | 0.00192  | 0.7684   | mg/L  | 0.00384 0.50%    |
| Pb 220.353† | 82.9           | 0.03025  | mg/L   | 0.000801 | 0.06051  | mg/L  | 0.001601 2.65%   |
| Sb 206.836† | -13.3          | 0.00396  | mg/L   | 0.002236 | 0.00792  | mg/L  | 0.004472 56.45%  |
| Se 196.026† | 36.4           | 0.02055  | mg/L   | 0.006410 | 0.04110  | mg/L  | 0.012819 31.19%  |
| Si 288.158† | 11643.3        | 7.030    | mg/L   | 0.0140   | 14.06    | mg/L  | 0.028 0.20%      |
| Sn 189.927† | -70.5          | -0.00165 | mg/L   | 0.000967 | -0.00331 | mg/L  | 0.001934 58.48%  |
| Sr 421.552† | 242564.6       | 0.2803   | mg/L   | 0.00086  | 0.5607   | mg/L  | 0.00172 0.31%    |
| Ti 334.903† | 233138.3       | 7.472    | mg/L   | 0.0153   | 14.94    | mg/L  | 0.031 0.21%      |
| Tl 190.801† | -28.5          | 0.00275  | mg/L   | 0.006793 | 0.00550  | mg/L  | 0.013587 246.81% |
| V 292.402†  | 67837.4        | 0.4268   | mg/L   | 0.00433  | 0.8535   | mg/L  | 0.00866 1.01%    |
| Zn 206.200† | 1154.4         | 0.2891   | mg/L   | 0.00092  | 0.5783   | mg/L  | 0.00184 0.32%    |

Sequence No.: 27

Autosampler Location: 321

Sample ID: SS71 ISPK SWC

Date Collected: 4/27/2011 10:44:59 AM

Data Type: Original

Dilution: 2X

## Nebulizer Parameters: SS71 ISPK SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 207.0 kPa     | 0.75 L/min |

## Mean Data: SS71 ISPK SWC

| Analyte     | Mean Corrected |          | Calib. Units | Std.Dev. | Sample   |       | RSD      |        |
|-------------|----------------|----------|--------------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    |              |          | Conc.    | Units |          |        |
| ScA 357.253 | 2417691.6      | 108.3    | %            | 0.81     |          |       | 0.75%    |        |
| ScR 361.383 | 446189.7       | 112.1    | %            | 0.92     |          |       | 0.82%    |        |
| Ag 328.068† | 92456.2        | 0.4983   | mg/L         | 0.00505  | 0.9966   | mg/L  | 0.01009  | 1.01%  |
| Al 308.215† | 188216.0       | 134.9    | mg/L         | 0.25     | 269.7    | mg/L  | 0.51     | 0.19%  |
| As 188.979† | 2728.8         | 1.965    | mg/L         | 0.0099   | 3.931    | mg/L  | 0.0199   | 0.51%  |
| B 249.677†  | 51.0           | 0.00789  | mg/L         | 0.000962 | 0.01579  | mg/L  | 0.001924 | 12.18% |
| Ba 233.527† | 16733.3        | 2.318    | mg/L         | 0.0255   | 4.636    | mg/L  | 0.0511   | 1.10%  |
| Be 313.042† | 424276.0       | 0.4830   | mg/L         | 0.00170  | 0.9660   | mg/L  | 0.00340  | 0.35%  |
| Ca 317.933† | 453127.7       | 38.98    | mg/L         | 0.028    | 77.96    | mg/L  | 0.055    | 0.07%  |
| Cd 228.802† | 14044.8        | 0.4983   | mg/L         | 0.00211  | 0.9966   | mg/L  | 0.00422  | 0.42%  |
| Co 228.616† | 17021.2        | 0.5287   | mg/L         | 0.00223  | 1.057    | mg/L  | 0.0045   | 0.42%  |
| Cr 267.716† | 6551.2         | 0.8234   | mg/L         | 0.00857  | 1.647    | mg/L  | 0.0171   | 1.04%  |
| Cu 324.752† | 149545.9       | 0.6507   | mg/L         | 0.01090  | 1.301    | mg/L  | 0.0218   | 1.67%  |
| Fe 273.955† | 184244.3       | 144.0    | mg/L         | 0.36     | 288.1    | mg/L  | 0.72     | 0.25%  |
| K 766.490†  | 23667.2        | 12.87    | mg/L         | 0.027    | 25.74    | mg/L  | 0.054    | 0.21%  |
| Mg 279.077† | 63414.6        | 50.39    | mg/L         | 0.062    | 100.8    | mg/L  | 0.12     | 0.12%  |
| Mn 257.610† | 88397.4        | 1.875    | mg/L         | 0.0032   | 3.750    | mg/L  | 0.0065   | 0.17%  |
| Mo 202.031† | 49.0           | 0.00233  | mg/L         | 0.000121 | 0.00467  | mg/L  | 0.000241 | 5.17%  |
| Na 589.592† | 137462.0       | 10.95    | mg/L         | 0.029    | 21.90    | mg/L  | 0.059    | 0.27%  |
| Na 330.237† | 304.0          | 12.69    | mg/L         | 0.049    | 25.39    | mg/L  | 0.098    | 0.39%  |
| Ni 231.604† | 2996.8         | 0.8226   | mg/L         | 0.00718  | 1.645    | mg/L  | 0.0144   | 0.87%  |
| Pb 220.353† | 15900.8        | 1.933    | mg/L         | 0.0108   | 3.865    | mg/L  | 0.0216   | 0.56%  |
| Sb 206.836† | 3.6            | 0.00521  | mg/L         | 0.001002 | 0.01042  | mg/L  | 0.002004 | 19.22% |
| Se 196.026† | 2474.1         | 2.005    | mg/L         | 0.0012   | 4.010    | mg/L  | 0.0025   | 0.06%  |
| Si 288.158† | 14944.9        | 9.025    | mg/L         | 0.0956   | 18.05    | mg/L  | 0.191    | 1.06%  |
| Sn 189.927† | -77.6          | -0.00280 | mg/L         | 0.001264 | -0.00560 | mg/L  | 0.002529 | 45.17% |
| Sr 421.552† | 613493.0       | 0.7090   | mg/L         | 0.00089  | 1.418    | mg/L  | 0.0018   | 0.13%  |
| Ti 334.903† | 184372.9       | 5.907    | mg/L         | 0.0073   | 11.81    | mg/L  | 0.015    | 0.12%  |
| Tl 190.801† | 3090.3         | 1.883    | mg/L         | 0.0089   | 3.766    | mg/L  | 0.0178   | 0.47%  |
| V 292.402†  | 133577.1       | 0.8596   | mg/L         | 0.01160  | 1.719    | mg/L  | 0.0232   | 1.35%  |
| Zn 206.200† | 2890.1         | 0.7240   | mg/L         | 0.00675  | 1.448    | mg/L  | 0.0135   | 0.93%  |

Sequence No.: 28 M  
 Sample ID: SS71-IP~~OST~~-SWC

Autosampler Location: 322  
 Date Collected: 4/27/2011 10:48:58 AM  
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 IP~~OST~~-SWC

Analyte Back Pressure Flow  
 All 209.0 kPa 0.75 L/min

Mean Data: SS71 IP~~OST~~-SWC

| Analyte     | Mean Corrected |         | Calib. Units | Std.Dev. | Sample  |       | Std.Dev. | RSD     |
|-------------|----------------|---------|--------------|----------|---------|-------|----------|---------|
|             | Intensity      | Conc.   |              |          | Conc.   | Units |          |         |
| ScA 357.253 | 2462622.4      | 110.4   | %            | 0.86     |         |       |          | 0.78%   |
| ScR 361.383 | 443288.8       | 111.4   | %            | 1.78     |         |       |          | 1.60%   |
| Ag 328.068† | 94.1           | 0.00013 | mg/L         | 0.000216 | 0.00026 | mg/L  | 0.000433 | 166.76% |
| Al 308.215† | 175451.9       | 125.7   | mg/L         | 1.13     | 251.4   | mg/L  | 2.26     | 0.90%   |
| As 188.979† | 89.0           | 0.1178  | mg/L         | 0.00202  | 0.2357  | mg/L  | 0.00404  | 1.71%   |
| B 249.677†  | 53.3           | 0.00940 | mg/L         | 0.000973 | 0.01881 | mg/L  | 0.001946 | 10.35%  |
| Ba 233.527† | 3444.0         | 0.4679  | mg/L         | 0.00974  | 0.9359  | mg/L  | 0.01949  | 2.08%   |
| Be 313.042† | 1790.2         | 0.00179 | mg/L         | 0.000065 | 0.00359 | mg/L  | 0.000131 | 3.65%   |
| Ca 317.933† | 641743.9       | 55.20   | mg/L         | 0.655    | 110.4   | mg/L  | 1.31     | 1.19%   |
| Cd 228.802† | 105.3          | 0.00373 | mg/L         | 0.000103 | 0.00747 | mg/L  | 0.000205 | 2.75%   |
| Co 228.616† | 2713.2         | 0.07379 | mg/L         | 0.001144 | 0.1476  | mg/L  | 0.00229  | 1.55%   |
| Cr 267.716† | 2052.5         | 0.2606  | mg/L         | 0.00563  | 0.5213  | mg/L  | 0.01126  | 2.16%   |
| Cu 324.752† | 64092.4        | 0.2825  | mg/L         | 0.00438  | 0.5651  | mg/L  | 0.00876  | 1.55%   |
| Fe 273.955† | 214302.4       | 167.5   | mg/L         | 1.74     | 335.1   | mg/L  | 3.47     | 1.04%   |
| K 766.490†  | 10213.8        | 5.554   | mg/L         | 0.0060   | 11.11   | mg/L  | 0.012    | 0.11%   |
| Mg 279.077† | 59567.9        | 47.32   | mg/L         | 0.507    | 94.64   | mg/L  | 1.014    | 1.07%   |
| Mn 257.610† | 127437.3       | 2.703   | mg/L         | 0.0284   | 5.406   | mg/L  | 0.0568   | 1.05%   |
| Mo 202.031† | 115.7          | 0.00619 | mg/L         | 0.000692 | 0.01238 | mg/L  | 0.001384 | 11.18%  |
| Na 589.592† | 73932.2        | 5.889   | mg/L         | 0.0547   | 11.78   | mg/L  | 0.109    | 0.93%   |
| Na 330.237† | 157.7          | 8.017   | mg/L         | 0.1770   | 16.03   | mg/L  | 0.354    | 2.21%   |
| Ni 231.604† | 1099.6         | 0.3018  | mg/L         | 0.00539  | 0.6037  | mg/L  | 0.01078  | 1.79%   |
| Pb 220.353† | 4323.4         | 0.5352  | mg/L         | 0.00586  | 1.070   | mg/L  | 0.0117   | 1.09%   |
| Sb 206.836† | -9.5           | 0.00627 | mg/L         | 0.000968 | 0.01255 | mg/L  | 0.001936 | 15.43%  |
| Se 196.026† | 37.8           | 0.01837 | mg/L         | 0.006983 | 0.03674 | mg/L  | 0.013965 | 38.01%  |
| Si 288.158† | 8294.4         | 5.010   | mg/L         | 0.0884   | 10.02   | mg/L  | 0.177    | 1.76%   |
| Sn 189.927† | -74.4          | 0.00263 | mg/L         | 0.000060 | 0.00527 | mg/L  | 0.000120 | 2.28%   |
| Sr 421.552† | 276034.4       | 0.3190  | mg/L         | 0.00235  | 0.6380  | mg/L  | 0.00470  | 0.74%   |
| Ti 334.903† | 230698.3       | 7.391   | mg/L         | 0.0731   | 14.78   | mg/L  | 0.146    | 0.99%   |
| Tl 190.801† | -28.3          | 0.00452 | mg/L         | 0.005686 | 0.00905 | mg/L  | 0.011371 | 125.70% |
| V 292.402†  | 70443.1        | 0.4426  | mg/L         | 0.00741  | 0.8852  | mg/L  | 0.01481  | 1.67%   |
| Zn 206.200† | 2003.4         | 0.5019  | mg/L         | 0.00862  | 1.004   | mg/L  | 0.0172   | 1.72%   |

Sequence No.: 29

Autosampler Location: 323

Sample ID: SS71 MB2SPK TWC

Date Collected: 4/27/2011 10:52:56 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS71 MB2SPK TWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: SS71 MB2SPK TWC

| Analyte     | Mean Corrected |          | Calib. Units | Std.Dev. | Sample   |       | RSD     |
|-------------|----------------|----------|--------------|----------|----------|-------|---------|
|             | Intensity      | Conc.    |              |          | Conc.    | Units |         |
| ScA 357.253 | 2402316.6      | 107.7    | %            | 0.69     |          |       | 0.64%   |
| ScR 361.383 | 428210.8       | 107.6    | %            | 0.92     |          |       | 0.85%   |
| Ag 328.068† | 96531.2        | 0.5204   | mg/L         | 0.00167  | 0.5204   | mg/L  | 0.32%   |
| Al 308.215† | 2875.7         | 2.051    | mg/L         | 0.0234   | 2.051    | mg/L  | 1.14%   |
| As 188.979† | 2895.2         | 2.037    | mg/L         | 0.0088   | 2.037    | mg/L  | 0.43%   |
| B 249.677†  | 6.4            | -0.00001 | mg/L         | 0.000764 | -0.00001 | mg/L  | >999.9% |
| Ba 233.527† | 14372.0        | 1.999    | mg/L         | 0.0172   | 1.999    | mg/L  | 0.86%   |
| Be 313.042† | 439244.3       | 0.5003   | mg/L         | 0.00061  | 0.5003   | mg/L  | 0.12%   |
| Ca 317.933† | 113512.8       | 9.765    | mg/L         | 0.0199   | 9.765    | mg/L  | 0.20%   |
| Cd 228.802† | 13992.9        | 0.4958   | mg/L         | 0.00275  | 0.4958   | mg/L  | 0.55%   |
| Co 228.616† | 15406.6        | 0.4872   | mg/L         | 0.00186  | 0.4872   | mg/L  | 0.38%   |
| Cr 267.716† | 3971.8         | 0.4969   | mg/L         | 0.00337  | 0.4969   | mg/L  | 0.68%   |
| Cu 324.752† | 114350.0       | 0.4936   | mg/L         | 0.00090  | 0.4936   | mg/L  | 0.18%   |
| Fe 273.955† | 2635.7         | 2.058    | mg/L         | 0.0225   | 2.058    | mg/L  | 1.09%   |
| K 766.490†  | 18523.3        | 10.07    | mg/L         | 0.064    | 10.07    | mg/L  | 0.64%   |
| Mg 279.077† | 12851.1        | 10.23    | mg/L         | 0.089    | 10.23    | mg/L  | 0.87%   |
| Mn 257.610† | 23086.6        | 0.4900   | mg/L         | 0.00470  | 0.4900   | mg/L  | 0.96%   |
| Mo 202.031† | 21.8           | 0.00118  | mg/L         | 0.000472 | 0.00118  | mg/L  | 40.01%  |
| Na 589.592† | 126317.0       | 10.06    | mg/L         | 0.038    | 10.06    | mg/L  | 0.38%   |
| Na 330.237† | 311.2          | 11.02    | mg/L         | 0.328    | 11.02    | mg/L  | 2.98%   |
| Ni 231.604† | 1841.2         | 0.5054   | mg/L         | 0.00546  | 0.5054   | mg/L  | 1.08%   |
| Pb 220.353† | 16377.4        | 1.972    | mg/L         | 0.0063   | 1.972    | mg/L  | 0.32%   |
| Sb 206.836† | 9.5            | 0.00060  | mg/L         | 0.000571 | 0.00060  | mg/L  | 94.36%  |
| Se 196.026† | 2566.9         | 2.088    | mg/L         | 0.0117   | 2.088    | mg/L  | 0.56%   |
| Si 288.158† | 9.2            | 0.00867  | mg/L         | 0.002357 | 0.00867  | mg/L  | 27.20%  |
| Sn 189.927† | -24.9          | -0.00229 | mg/L         | 0.000182 | -0.00229 | mg/L  | 7.92%   |
| Sr 421.552† | 439719.0       | 0.5082   | mg/L         | 0.00083  | 0.5082   | mg/L  | 0.16%   |
| Ti 334.903† | 82.2           | 0.00086  | mg/L         | 0.000904 | 0.00086  | mg/L  | 104.72% |
| Tl 190.801† | 3347.0         | 2.019    | mg/L         | 0.0037   | 2.019    | mg/L  | 0.18%   |
| V 292.402†  | 75857.3        | 0.4968   | mg/L         | 0.00133  | 0.4968   | mg/L  | 0.27%   |
| Zn 206.200† | 2002.3         | 0.5017   | mg/L         | 0.00368  | 0.5017   | mg/L  | 0.73%   |



Sequence No.: 30  
Sample ID: CV 3

Autosampler Location: 7  
Date Collected: 4/27/2011 10:56:54 AM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: CV

| Analyte     | Mean Corrected |        | Calib. Units | Std.Dev. | Sample |       | RSD   |
|-------------|----------------|--------|--------------|----------|--------|-------|-------|
|             | Intensity      | Conc.  |              |          | Conc.  | Units |       |
| ScA 357.253 | 2416777.3      | 108.3  | %            | 0.38     |        |       | 0.35% |
| ScR 361.383 | 426289.5       | 107.1  | %            | 1.11     |        |       | 1.03% |
| Ag 328.068† | 187675.3       | 1.012  | mg/L         | 0.0046   | 1.012  | mg/L  | 0.46% |
| Al 308.215† | 2792.3         | 1.968  | mg/L         | 0.0153   | 1.968  | mg/L  | 0.78% |
| As 188.979† | 2825.7         | 1.995  | mg/L         | 0.0204   | 1.995  | mg/L  | 1.02% |
| B 249.677†  | 5587.8         | 1.005  | mg/L         | 0.0082   | 1.005  | mg/L  | 0.82% |
| Ba 233.527† | 7064.1         | 0.9821 | mg/L         | 0.01061  | 0.9821 | mg/L  | 1.08% |
| Be 313.042† | 884648.6       | 1.008  | mg/L         | 0.0088   | 1.008  | mg/L  | 0.87% |
| Ca 317.933† | 23503.7        | 2.022  | mg/L         | 0.0191   | 2.022  | mg/L  | 0.94% |
| Cd 228.802† | 28398.0        | 1.014  | mg/L         | 0.0008   | 1.014  | mg/L  | 0.08% |
| Co 228.616† | 30524.2        | 0.9647 | mg/L         | 0.00107  | 0.9647 | mg/L  | 0.11% |
| Cr 267.716† | 7914.4         | 0.9914 | mg/L         | 0.01007  | 0.9914 | mg/L  | 1.02% |
| Cu 324.752† | 222580.7       | 0.9604 | mg/L         | 0.00351  | 0.9604 | mg/L  | 0.37% |
| Fe 273.955† | 2563.4         | 1.999  | mg/L         | 0.0168   | 1.999  | mg/L  | 0.84% |
| K 766.490†  | 36654.2        | 19.93  | mg/L         | 0.253    | 19.93  | mg/L  | 1.27% |
| Mg 279.077† | 2460.9         | 1.962  | mg/L         | 0.0143   | 1.962  | mg/L  | 0.73% |
| Mn 257.610† | 46005.1        | 0.9760 | mg/L         | 0.01055  | 0.9760 | mg/L  | 1.08% |
| Mo 202.031† | 15546.5        | 0.9699 | mg/L         | 0.00781  | 0.9699 | mg/L  | 0.80% |
| Na 589.592† | 636151.5       | 50.67  | mg/L         | 0.480    | 50.67  | mg/L  | 0.95% |
| Na 330.237† | 1432.8         | 51.38  | mg/L         | 0.485    | 51.38  | mg/L  | 0.94% |
| Ni 231.604† | 3748.8         | 1.030  | mg/L         | 0.0127   | 1.030  | mg/L  | 1.23% |
| Pb 220.353† | 16108.9        | 1.940  | mg/L         | 0.0015   | 1.940  | mg/L  | 0.08% |
| Sb 206.836† | 4939.8         | 1.984  | mg/L         | 0.0159   | 1.984  | mg/L  | 0.80% |
| Se 196.026† | 2474.9         | 2.015  | mg/L         | 0.0210   | 2.015  | mg/L  | 1.04% |
| Si 288.158† | 3373.5         | 2.041  | mg/L         | 0.0098   | 2.041  | mg/L  | 0.48% |
| Sn 189.927† | 4908.6         | 0.9645 | mg/L         | 0.00970  | 0.9645 | mg/L  | 1.01% |
| Sr 421.552† | 881061.6       | 1.018  | mg/L         | 0.0078   | 1.018  | mg/L  | 0.77% |
| Ti 334.903† | 29795.6        | 0.9541 | mg/L         | 0.00784  | 0.9541 | mg/L  | 0.82% |
| Tl 190.801† | 3257.3         | 1.967  | mg/L         | 0.0122   | 1.967  | mg/L  | 0.62% |
| V 292.402†  | 149012.3       | 0.9765 | mg/L         | 0.00286  | 0.9765 | mg/L  | 0.29% |
| Zn 206.200† | 3992.8         | 1.0000 | mg/L         | 0.01264  | 1.0000 | mg/L  | 1.26% |

Sequence No.: 31  
 Sample ID: CB 3

Autosampler Location: 1  
 Date Collected: 4/27/2011 11:00:09 AM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow  
 All 207.0 kPa 0.75 L/min

Mean Data: CB

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2387828.7      | 107.0    | %               | 1.04     |          |       |          | 0.97%   |
| ScR 361.383 | 426478.5       | 107.2    | %               | 0.34     |          |       |          | 0.31%   |
| Ag 328.068† | 111.0          | 0.00060  | mg/L            | 0.000159 | 0.00060  | mg/L  | 0.000159 | 26.52%  |
| Al 308.215† | 23.5           | 0.01688  | mg/L            | 0.005447 | 0.01688  | mg/L  | 0.005447 | 32.27%  |
| As 188.979† | 0.3            | 0.00018  | mg/L            | 0.001725 | 0.00018  | mg/L  | 0.001725 | 938.70% |
| B 249.677†  | -0.4           | -0.00007 | mg/L            | 0.000985 | -0.00007 | mg/L  | 0.000985 | >999.9% |
| Ba 233.527† | 2.3            | 0.00032  | mg/L            | 0.001220 | 0.00032  | mg/L  | 0.001220 | 383.78% |
| Be 313.042† | 59.9           | 0.00007  | mg/L            | 0.000029 | 0.00007  | mg/L  | 0.000029 | 42.18%  |
| Ca 317.933† | 39.1           | 0.00336  | mg/L            | 0.001275 | 0.00336  | mg/L  | 0.001275 | 37.94%  |
| Cd 228.802† | -2.1           | -0.00008 | mg/L            | 0.000043 | -0.00008 | mg/L  | 0.000043 | 56.06%  |
| Co 228.616† | 11.4           | 0.00036  | mg/L            | 0.000162 | 0.00036  | mg/L  | 0.000162 | 44.81%  |
| Cr 267.716† | -0.5           | -0.00006 | mg/L            | 0.000854 | -0.00006 | mg/L  | 0.000854 | >999.9% |
| Cu 324.752† | -28.6          | -0.00012 | mg/L            | 0.000141 | -0.00012 | mg/L  | 0.000141 | 114.80% |
| Fe 273.955† | 7.0            | 0.00545  | mg/L            | 0.000618 | 0.00545  | mg/L  | 0.000618 | 11.32%  |
| K 766.490†  | 74.6           | 0.04056  | mg/L            | 0.011742 | 0.04056  | mg/L  | 0.011742 | 28.95%  |
| Mg 279.077† | 10.0           | 0.00799  | mg/L            | 0.006209 | 0.00799  | mg/L  | 0.006209 | 77.73%  |
| Mn 257.610† | 1.7            | 0.00004  | mg/L            | 0.000188 | 0.00004  | mg/L  | 0.000188 | 513.94% |
| Mo 202.031† | -5.2           | -0.00033 | mg/L            | 0.000100 | -0.00033 | mg/L  | 0.000100 | 30.53%  |
| Na 589.592† | -123.9         | -0.00987 | mg/L            | 0.000576 | -0.00987 | mg/L  | 0.000576 | 5.84%   |
| Na 330.237† | 24.9           | 0.8917   | mg/L            | 0.30110  | 0.8917   | mg/L  | 0.30110  | 33.77%  |
| Ni 231.604† | 3.6            | 0.00098  | mg/L            | 0.000912 | 0.00098  | mg/L  | 0.000912 | 92.66%  |
| Pb 220.353† | 10.2           | 0.00123  | mg/L            | 0.000788 | 0.00123  | mg/L  | 0.000788 | 64.21%  |
| Sb 206.836† | -1.6           | -0.00064 | mg/L            | 0.000112 | -0.00064 | mg/L  | 0.000112 | 17.50%  |
| Se 196.026† | 10.6           | 0.00866  | mg/L            | 0.001311 | 0.00866  | mg/L  | 0.001311 | 15.14%  |
| Si 288.158† | -7.6           | -0.00458 | mg/L            | 0.006389 | -0.00458 | mg/L  | 0.006389 | 139.65% |
| Sn 189.927† | 2.8            | 0.00055  | mg/L            | 0.000236 | 0.00055  | mg/L  | 0.000236 | 43.21%  |
| Sr 421.552† | 146.2          | 0.00017  | mg/L            | 0.000038 | 0.00017  | mg/L  | 0.000038 | 22.72%  |
| Ti 334.903† | -34.0          | -0.00109 | mg/L            | 0.000516 | -0.00109 | mg/L  | 0.000516 | 47.29%  |
| Tl 190.801† | 3.4            | 0.00206  | mg/L            | 0.001210 | 0.00206  | mg/L  | 0.001210 | 58.64%  |
| V 292.402†  | 18.5           | 0.00012  | mg/L            | 0.000093 | 0.00012  | mg/L  | 0.000093 | 77.06%  |
| Zn 206.200† | 3.8            | 0.00094  | mg/L            | 0.000671 | 0.00094  | mg/L  | 0.000671 | 71.15%  |

Sequence No.: 32  
Sample ID: SS71 MB1 SWC

Autosampler Location: 324  
Date Collected: 4/27/2011 11:04:21 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 MB1 SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 MB1 SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2441874.6      | 109.4    | %               | 1.37     |          |       |          | 1.26%   |
| ScR 361.383 | 442328.2       | 111.1    | %               | 1.44     |          |       |          | 1.29%   |
| Ag 328.068† | 168.3          | 0.00091  | mg/L            | 0.000089 | 0.00182  | mg/L  | 0.000177 | 9.78%   |
| Al 308.215† | 29.7           | 0.02132  | mg/L            | 0.011894 | 0.04265  | mg/L  | 0.023789 | 55.78%  |
| As 188.979† | -1.0           | -0.00069 | mg/L            | 0.001127 | -0.00137 | mg/L  | 0.002254 | 164.04% |
| B 249.677†  | 4.1            | 0.00074  | mg/L            | 0.001371 | 0.00149  | mg/L  | 0.002742 | 184.06% |
| Ba 233.527† | -3.1           | -0.00043 | mg/L            | 0.000399 | -0.00086 | mg/L  | 0.000799 | 93.40%  |
| Be 313.042† | -52.0          | -0.00006 | mg/L            | 0.000006 | -0.00012 | mg/L  | 0.000012 | 9.71%   |
| Ca 317.933† | 201.6          | 0.01734  | mg/L            | 0.001298 | 0.03469  | mg/L  | 0.002597 | 7.49%   |
| Cd 228.802† | -8.5           | -0.00030 | mg/L            | 0.000071 | -0.00060 | mg/L  | 0.000142 | 23.67%  |
| Co 228.616† | 9.9            | 0.00031  | mg/L            | 0.000047 | 0.00063  | mg/L  | 0.000093 | 14.83%  |
| Cr 267.716† | -1.8           | -0.00023 | mg/L            | 0.000621 | -0.00045 | mg/L  | 0.001241 | 273.37% |
| Cu 324.752† | -55.3          | -0.00024 | mg/L            | 0.000120 | -0.00048 | mg/L  | 0.000240 | 50.47%  |
| Fe 273.955† | 5.7            | 0.00445  | mg/L            | 0.001539 | 0.00889  | mg/L  | 0.003078 | 34.62%  |
| K 766.490†  | 173.8          | 0.09448  | mg/L            | 0.002228 | 0.1890   | mg/L  | 0.00446  | 2.36%   |
| Mg 279.077† | 22.5           | 0.01789  | mg/L            | 0.007063 | 0.03578  | mg/L  | 0.014127 | 39.48%  |
| Mn 257.610† | -2.3           | -0.00005 | mg/L            | 0.000151 | -0.00010 | mg/L  | 0.000302 | 314.54% |
| Mo 202.031† | -10.9          | -0.00068 | mg/L            | 0.000191 | -0.00136 | mg/L  | 0.000382 | 27.98%  |
| Na 589.592† | -13.8          | -0.00110 | mg/L            | 0.001508 | -0.00219 | mg/L  | 0.003016 | 137.53% |
| Na 330.237† | 22.2           | 0.7935   | mg/L            | 0.30381  | 1.587    | mg/L  | 0.6076   | 38.29%  |
| Ni 231.604† | 7.7            | 0.00212  | mg/L            | 0.000578 | 0.00423  | mg/L  | 0.001156 | 27.30%  |
| Pb 220.353† | 6.8            | 0.00082  | mg/L            | 0.000273 | 0.00164  | mg/L  | 0.000546 | 33.28%  |
| Sb 206.836† | -2.1           | -0.00082 | mg/L            | 0.001652 | -0.00165 | mg/L  | 0.003305 | 200.35% |
| Se 196.026† | 10.7           | 0.00870  | mg/L            | 0.002387 | 0.01740  | mg/L  | 0.004775 | 27.44%  |
| Si 288.158† | 0.9            | 0.00052  | mg/L            | 0.002402 | 0.00105  | mg/L  | 0.004805 | 458.50% |
| Sn 189.927† | 2.8            | 0.00056  | mg/L            | 0.000202 | 0.00112  | mg/L  | 0.000404 | 35.96%  |
| Sr 421.552† | 98.4           | 0.00011  | mg/L            | 0.000024 | 0.00023  | mg/L  | 0.000049 | 21.50%  |
| Ti 334.903† | -49.7          | -0.00160 | mg/L            | 0.001005 | -0.00319 | mg/L  | 0.002011 | 62.97%  |
| Tl 190.801† | 0.3            | 0.00020  | mg/L            | 0.001746 | 0.00040  | mg/L  | 0.003491 | 881.77% |
| V 292.402†  | 11.6           | 0.00007  | mg/L            | 0.000051 | 0.00015  | mg/L  | 0.000102 | 68.33%  |
| Zn 206.200† | 6.7            | 0.00167  | mg/L            | 0.000325 | 0.00334  | mg/L  | 0.000649 | 19.46%  |

Sequence No.: 33

Sample ID: SS71 D SWC

Autosampler Location: 325

Date Collected: 4/27/2011 11:08:34 AM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 D SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: SS71 D SWC

| Analyte     | Mean Corrected |         | Calib.<br>Conc. Units | Std.Dev. | Sample  |       | Std.Dev. | RSD    |
|-------------|----------------|---------|-----------------------|----------|---------|-------|----------|--------|
|             | Intensity      | Conc.   |                       |          | Conc.   | Units |          |        |
| ScA 357.253 | 2436548.0      | 109.2   | %                     | 0.35     |         |       |          | 0.32%  |
| ScR 361.383 | 432575.8       | 108.7   | %                     | 2.50     |         |       |          | 2.30%  |
| Ag 328.068† | 218.4          | 0.00087 | mg/L                  | 0.000292 | 0.00173 | mg/L  | 0.000585 | 33.72% |
| Al 308.215† | 121396.4       | 86.98   | mg/L                  | 0.250    | 174.0   | mg/L  | 0.50     | 0.29%  |
| As 188.979† | 81.5           | 0.09290 | mg/L                  | 0.000504 | 0.1858  | mg/L  | 0.00101  | 0.54%  |
| B 249.677†  | 103.1          | 0.01844 | mg/L                  | 0.000585 | 0.03687 | mg/L  | 0.001169 | 3.17%  |
| Ba 233.527† | 3412.1         | 0.4670  | mg/L                  | 0.01130  | 0.9339  | mg/L  | 0.02261  | 2.42%  |
| Be 313.042† | 1266.4         | 0.00128 | mg/L                  | 0.000064 | 0.00256 | mg/L  | 0.000127 | 4.97%  |
| Ca 317.933† | 557005.0       | 47.91   | mg/L                  | 0.063    | 95.83   | mg/L  | 0.126    | 0.13%  |
| Cd 228.802† | 105.5          | 0.00371 | mg/L                  | 0.000135 | 0.00743 | mg/L  | 0.000270 | 3.63%  |
| Co 228.616† | 1742.1         | 0.04708 | mg/L                  | 0.000093 | 0.09416 | mg/L  | 0.000186 | 0.20%  |
| Cr 267.716† | 1880.6         | 0.2377  | mg/L                  | 0.00659  | 0.4754  | mg/L  | 0.01318  | 2.77%  |
| Cu 324.752† | 53285.4        | 0.2341  | mg/L                  | 0.00338  | 0.4682  | mg/L  | 0.00676  | 1.44%  |
| Fe 273.955† | 147877.6       | 115.6   | mg/L                  | 0.24     | 231.2   | mg/L  | 0.48     | 0.21%  |
| K 766.490†  | 10543.0        | 5.733   | mg/L                  | 0.0106   | 11.47   | mg/L  | 0.021    | 0.18%  |
| Mg 279.077† | 44602.5        | 35.44   | mg/L                  | 0.047    | 70.88   | mg/L  | 0.094    | 0.13%  |
| Mn 257.610† | 100005.8       | 2.121   | mg/L                  | 0.0093   | 4.242   | mg/L  | 0.0185   | 0.44%  |
| Mo 202.031† | 122.9          | 0.00678 | mg/L                  | 0.000232 | 0.01356 | mg/L  | 0.000465 | 3.43%  |
| Na 589.592† | 20701.2        | 1.649   | mg/L                  | 0.0042   | 3.298   | mg/L  | 0.0084   | 0.25%  |
| Na 330.237† | 46.1           | 3.133   | mg/L                  | 0.0781   | 6.265   | mg/L  | 0.1562   | 2.49%  |
| Ni 231.604† | 815.4          | 0.2238  | mg/L                  | 0.00405  | 0.4476  | mg/L  | 0.00811  | 1.81%  |
| Pb 220.353† | 3890.5         | 0.4786  | mg/L                  | 0.00036  | 0.9573  | mg/L  | 0.00073  | 0.08%  |
| Sb 206.836† | 0.3            | 0.00627 | mg/L                  | 0.002188 | 0.01254 | mg/L  | 0.004377 | 34.90% |
| Se 196.026† | 45.9           | 0.02707 | mg/L                  | 0.001274 | 0.05414 | mg/L  | 0.002547 | 4.71%  |
| Si 288.158† | 10848.2        | 6.550   | mg/L                  | 0.1616   | 13.10   | mg/L  | 0.323    | 2.47%  |
| Sn 189.927† | -1.5           | 0.01413 | mg/L                  | 0.000924 | 0.02826 | mg/L  | 0.001847 | 6.54%  |
| Sr 421.552† | 246121.7       | 0.2845  | mg/L                  | 0.00061  | 0.5689  | mg/L  | 0.00121  | 0.21%  |
| Ti 334.903† | 152989.2       | 4.899   | mg/L                  | 0.0162   | 9.799   | mg/L  | 0.0325   | 0.33%  |
| Tl 190.801† | -10.2          | 0.00879 | mg/L                  | 0.000817 | 0.01759 | mg/L  | 0.001634 | 9.29%  |
| V 292.402†  | 45925.5        | 0.2883  | mg/L                  | 0.00379  | 0.5767  | mg/L  | 0.00757  | 1.31%  |
| Zn 206.200† | 2650.1         | 0.6638  | mg/L                  | 0.01631  | 1.328   | mg/L  | 0.0326   | 2.46%  |

Sequence No.: 34  
Sample ID: SS71 E SWC

Autosampler Location: 326  
Date Collected: 4/27/2011 11:12:32 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 E SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 E SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | RSD              |
|-------------|----------------|----------|-----------------|----------|----------|-------|------------------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |                  |
| ScA 357.253 | 2453754.4      | 110.0    | %               | 1.11     |          |       | 1.01%            |
| ScR 361.383 | 443112.1       | 111.3    | %               | 1.10     |          |       | 0.99%            |
| Ag 328.068† | 158.8          | 0.00057  | mg/L            | 0.000308 | 0.00114  | mg/L  | 0.000615 54.09%  |
| Al 308.215† | 154041.3       | 110.4    | mg/L            | 0.35     | 220.7    | mg/L  | 0.70 0.32%       |
| As 188.979† | 87.0           | 0.1083   | mg/L            | 0.00309  | 0.2165   | mg/L  | 0.00618 2.86%    |
| B 249.677†  | 60.6           | 0.01075  | mg/L            | 0.000587 | 0.02151  | mg/L  | 0.001174 5.46%   |
| Ba 233.527† | 3002.7         | 0.4093   | mg/L            | 0.00439  | 0.8187   | mg/L  | 0.00879 1.07%    |
| Be 313.042† | 1713.2         | 0.00174  | mg/L            | 0.000034 | 0.00347  | mg/L  | 0.000068 1.96%   |
| Ca 317.933† | 337325.7       | 29.02    | mg/L            | 0.091    | 58.03    | mg/L  | 0.181 0.31%      |
| Cd 228.802† | 63.9           | 0.00223  | mg/L            | 0.000233 | 0.00446  | mg/L  | 0.000466 10.44%  |
| Co 228.616† | 2166.8         | 0.05857  | mg/L            | 0.000994 | 0.1171   | mg/L  | 0.00199 1.70%    |
| Cr 267.716† | 2209.0         | 0.2796   | mg/L            | 0.00231  | 0.5592   | mg/L  | 0.00462 0.83%    |
| Cu 324.752† | 46302.5        | 0.2041   | mg/L            | 0.00214  | 0.4082   | mg/L  | 0.00427 1.05%    |
| Fe 273.955† | 159988.2       | 125.1    | mg/L            | 0.32     | 250.1    | mg/L  | 0.64 0.25%       |
| K 766.490†  | 9666.2         | 5.256    | mg/L            | 0.0175   | 10.51    | mg/L  | 0.035 0.33%      |
| Mg 279.077† | 43427.8        | 34.50    | mg/L            | 0.107    | 69.00    | mg/L  | 0.214 0.31%      |
| Mn 257.610† | 99934.1        | 2.119    | mg/L            | 0.0088   | 4.239    | mg/L  | 0.0175 0.41%     |
| Mo 202.031† | 106.6          | 0.00611  | mg/L            | 0.000302 | 0.01222  | mg/L  | 0.000603 4.94%   |
| Na 589.592† | 17746.5        | 1.414    | mg/L            | 0.0051   | 2.827    | mg/L  | 0.0103 0.36%     |
| Na 330.237† | 34.6           | 3.208    | mg/L            | 0.0596   | 6.415    | mg/L  | 0.1192 1.86%     |
| Ni 231.604† | 981.1          | 0.2693   | mg/L            | 0.00329  | 0.5386   | mg/L  | 0.00658 1.22%    |
| Pb 220.353† | 963.5          | 0.1305   | mg/L            | 0.00240  | 0.2609   | mg/L  | 0.00480 1.84%    |
| Sb 206.836† | -7.5           | 0.00479  | mg/L            | 0.000742 | 0.00959  | mg/L  | 0.001485 15.49%  |
| Se 196.026† | 36.7           | 0.02256  | mg/L            | 0.007475 | 0.04512  | mg/L  | 0.014950 33.13%  |
| Si 288.158† | 14395.2        | 8.690    | mg/L            | 0.0710   | 17.38    | mg/L  | 0.142 0.82%      |
| Sn 189.927† | -52.4          | -0.00043 | mg/L            | 0.001573 | -0.00085 | mg/L  | 0.003146 368.44% |
| Sr 421.552† | 136495.0       | 0.1578   | mg/L            | 0.00033  | 0.3155   | mg/L  | 0.00067 0.21%    |
| Ti 334.903† | 190811.9       | 6.116    | mg/L            | 0.0179   | 12.23    | mg/L  | 0.036 0.29%      |
| Tl 190.801† | -12.5          | 0.00845  | mg/L            | 0.008894 | 0.01690  | mg/L  | 0.017788 105.25% |
| V 292.402†  | 61515.7        | 0.3887   | mg/L            | 0.00551  | 0.7773   | mg/L  | 0.01103 1.42%    |
| Zn 206.200† | 1491.6         | 0.3736   | mg/L            | 0.00340  | 0.7472   | mg/L  | 0.00679 0.91%    |

Sequence No.: 35

Sample ID: SS71 F SWC

Autosampler Location: 327

Date Collected: 4/27/2011 11:16:29 AM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 F SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: SS71 F SWC

| Analyte     | Mean Corrected |         | Calib.<br>Units | Std.Dev. | Sample  |       | Std.Dev. | RSD     |
|-------------|----------------|---------|-----------------|----------|---------|-------|----------|---------|
|             | Intensity      | Conc.   |                 |          | Conc.   | Units |          |         |
| ScA 357.253 | 2443227.3      | 109.5   | %               | 0.46     |         |       |          | 0.42%   |
| ScR 361.383 | 439574.7       | 110.5   | %               | 1.27     |         |       |          | 1.15%   |
| Ag 328.068† | 135.1          | 0.00055 | mg/L            | 0.000146 | 0.00110 | mg/L  | 0.000292 | 26.57%  |
| Al 308.215† | 156953.1       | 112.5   | mg/L            | 0.45     | 224.9   | mg/L  | 0.90     | 0.40%   |
| As 188.979† | 62.5           | 0.09042 | mg/L            | 0.002788 | 0.1808  | mg/L  | 0.00558  | 3.08%   |
| B 249.677†  | 77.6           | 0.01383 | mg/L            | 0.000219 | 0.02767 | mg/L  | 0.000439 | 1.59%   |
| Ba 233.527† | 3138.1         | 0.4285  | mg/L            | 0.00540  | 0.8571  | mg/L  | 0.01079  | 1.26%   |
| Be 313.042† | 1853.4         | 0.00190 | mg/L            | 0.000039 | 0.00381 | mg/L  | 0.000078 | 2.06%   |
| Ca 317.933† | 340793.1       | 29.32   | mg/L            | 0.157    | 58.63   | mg/L  | 0.315    | 0.54%   |
| Cd 228.802† | 56.1           | 0.00204 | mg/L            | 0.000024 | 0.00408 | mg/L  | 0.000047 | 1.16%   |
| Co 228.616† | 1871.9         | 0.04934 | mg/L            | 0.000410 | 0.09867 | mg/L  | 0.000820 | 0.83%   |
| Cr 267.716† | 2409.1         | 0.3043  | mg/L            | 0.00353  | 0.6087  | mg/L  | 0.00707  | 1.16%   |
| Cu 324.752† | 33661.9        | 0.1493  | mg/L            | 0.00102  | 0.2986  | mg/L  | 0.00204  | 0.68%   |
| Fe 273.955† | 153370.7       | 119.9   | mg/L            | 0.21     | 239.8   | mg/L  | 0.43     | 0.18%   |
| K 766.490†  | 9295.3         | 5.054   | mg/L            | 0.0264   | 10.11   | mg/L  | 0.053    | 0.52%   |
| Mg 279.077† | 45803.0        | 36.39   | mg/L            | 0.097    | 72.78   | mg/L  | 0.194    | 0.27%   |
| Mn 257.610† | 70308.4        | 1.491   | mg/L            | 0.0023   | 2.982   | mg/L  | 0.0045   | 0.15%   |
| Mo 202.031† | 119.2          | 0.00689 | mg/L            | 0.000323 | 0.01379 | mg/L  | 0.000645 | 4.68%   |
| Na 589.592† | 17254.9        | 1.374   | mg/L            | 0.0065   | 2.749   | mg/L  | 0.0129   | 0.47%   |
| Na 330.237† | 26.1           | 2.885   | mg/L            | 0.3136   | 5.769   | mg/L  | 0.6272   | 10.87%  |
| Ni 231.604† | 1104.5         | 0.3032  | mg/L            | 0.00442  | 0.6064  | mg/L  | 0.00883  | 1.46%   |
| Pb 220.353† | 928.2          | 0.1270  | mg/L            | 0.00262  | 0.2541  | mg/L  | 0.00524  | 2.06%   |
| Sb 206.836† | -12.4          | 0.00244 | mg/L            | 0.001818 | 0.00488 | mg/L  | 0.003635 | 74.54%  |
| Se 196.026† | 45.8           | 0.02977 | mg/L            | 0.002305 | 0.05953 | mg/L  | 0.004611 | 7.74%   |
| Si 288.158† | 11073.8        | 6.686   | mg/L            | 0.0793   | 13.37   | mg/L  | 0.159    | 1.19%   |
| Sn 189.927† | -47.7          | 0.00055 | mg/L            | 0.001280 | 0.00110 | mg/L  | 0.002560 | 233.73% |
| Sr 421.552† | 145587.5       | 0.1683  | mg/L            | 0.00044  | 0.3365  | mg/L  | 0.00087  | 0.26%   |
| Ti 334.903† | 188715.4       | 6.049   | mg/L            | 0.0128   | 12.10   | mg/L  | 0.026    | 0.21%   |
| Tl 190.801† | -17.6          | 0.00472 | mg/L            | 0.002443 | 0.00945 | mg/L  | 0.004887 | 51.73%  |
| V 292.402†  | 59108.9        | 0.3734  | mg/L            | 0.00225  | 0.7469  | mg/L  | 0.00450  | 0.60%   |
| Zn 206.200† | 1414.0         | 0.3542  | mg/L            | 0.00494  | 0.7084  | mg/L  | 0.00988  | 1.39%   |

Sequence No.: 36  
Sample ID: SS71 G SWC

Autosampler Location: 328  
Date Collected: 4/27/2011 11:20:26 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 G SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 G SWC

| Analyte     | Mean Corrected |         | Calib. |          | Sample  |       | RSD             |
|-------------|----------------|---------|--------|----------|---------|-------|-----------------|
|             | Intensity      | Conc.   | Units  | Std.Dev. | Conc.   | Units |                 |
| ScA 357.253 | 2443224.8      | 109.5   | %      | 0.35     |         |       | 0.32%           |
| ScR 361.383 | 445542.3       | 112.0   | %      | 1.53     |         |       | 1.36%           |
| Ag 328.068† | 252.9          | 0.00105 | mg/L   | 0.000204 | 0.00210 | mg/L  | 0.000407 19.40% |
| Al 308.215† | 192265.9       | 137.8   | mg/L   | 0.55     | 275.5   | mg/L  | 1.09 0.40%      |
| As 188.979† | 94.8           | 0.1110  | mg/L   | 0.00287  | 0.2220  | mg/L  | 0.00573 2.58%   |
| B 249.677†  | 89.1           | 0.01589 | mg/L   | 0.001491 | 0.03178 | mg/L  | 0.002981 9.38%  |
| Ba 233.527† | 4315.2         | 0.5915  | mg/L   | 0.01033  | 1.183   | mg/L  | 0.0207 1.75%    |
| Be 313.042† | 2158.2         | 0.00225 | mg/L   | 0.000054 | 0.00450 | mg/L  | 0.000109 2.42%  |
| Ca 317.933† | 442390.0       | 38.06   | mg/L   | 0.155    | 76.11   | mg/L  | 0.309 0.41%     |
| Cd 228.802† | 116.1          | 0.00410 | mg/L   | 0.000053 | 0.00820 | mg/L  | 0.000105 1.28%  |
| Co 228.616† | 2044.8         | 0.05506 | mg/L   | 0.000298 | 0.1101  | mg/L  | 0.00060 0.54%   |
| Cr 267.716† | 2278.1         | 0.2883  | mg/L   | 0.00464  | 0.5766  | mg/L  | 0.00928 1.61%   |
| Cu 324.752† | 41149.7        | 0.1822  | mg/L   | 0.00032  | 0.3645  | mg/L  | 0.00063 0.17%   |
| Fe 273.955† | 168433.5       | 131.7   | mg/L   | 0.56     | 263.3   | mg/L  | 1.12 0.42%      |
| K 766.490†  | 6229.1         | 3.387   | mg/L   | 0.0127   | 6.774   | mg/L  | 0.0254 0.38%    |
| Mg 279.077† | 46374.4        | 36.84   | mg/L   | 0.144    | 73.68   | mg/L  | 0.289 0.39%     |
| Mn 257.610† | 106166.6       | 2.251   | mg/L   | 0.0172   | 4.503   | mg/L  | 0.0343 0.76%    |
| Mo 202.031† | 96.8           | 0.00533 | mg/L   | 0.000075 | 0.01067 | mg/L  | 0.000151 1.41%  |
| Na 589.592† | 15070.1        | 1.200   | mg/L   | 0.0048   | 2.401   | mg/L  | 0.0097 0.40%    |
| Na 330.237† | 29.0           | 2.902   | mg/L   | 0.0442   | 5.805   | mg/L  | 0.0884 1.52%    |
| Ni 231.604† | 1061.2         | 0.2913  | mg/L   | 0.00426  | 0.5826  | mg/L  | 0.00853 1.46%   |
| Pb 220.353† | 1735.5         | 0.2284  | mg/L   | 0.00206  | 0.4568  | mg/L  | 0.00413 0.90%   |
| Sb 206.836† | -10.1          | 0.00330 | mg/L   | 0.002359 | 0.00661 | mg/L  | 0.004718 71.42% |
| Se 196.026† | 41.3           | 0.02473 | mg/L   | 0.002328 | 0.04946 | mg/L  | 0.004656 9.41%  |
| Si 288.158† | 5677.9         | 3.430   | mg/L   | 0.0631   | 6.861   | mg/L  | 0.1261 1.84%    |
| Sn 189.927† | -45.2          | 0.00329 | mg/L   | 0.000456 | 0.00658 | mg/L  | 0.000913 13.86% |
| Sr 421.552† | 170805.7       | 0.1974  | mg/L   | 0.00130  | 0.3948  | mg/L  | 0.00260 0.66%   |
| Ti 334.903† | 183234.4       | 5.871   | mg/L   | 0.0424   | 11.74   | mg/L  | 0.085 0.72%     |
| Tl 190.801† | -15.1          | 0.00778 | mg/L   | 0.002274 | 0.01557 | mg/L  | 0.004547 29.22% |
| V 292.402†  | 59837.5        | 0.3774  | mg/L   | 0.00051  | 0.7548  | mg/L  | 0.00102 0.14%   |
| Zn 206.200† | 1835.2         | 0.4597  | mg/L   | 0.00772  | 0.9194  | mg/L  | 0.01544 1.68%   |

Sequence No.: 37  
Sample ID: SS71 H SWC

Autosampler Location: 329  
Date Collected: 4/27/2011 11:24:20 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 H SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 H SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD    |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |        |
| ScA 357.253 | 2503249.7      | 112.2    | %               | 0.35     |          |       |          | 0.32%  |
| ScR 361.383 | 446147.7       | 112.1    | %               | 0.63     |          |       |          | 0.56%  |
| Ag 328.068† | 35.5           | -0.00004 | mg/L            | 0.000019 | -0.00008 | mg/L  | 0.000038 | 47.42% |
| Al 308.215† | 215498.1       | 154.4    | mg/L            | 0.29     | 308.8    | mg/L  | 0.57     | 0.18%  |
| As 188.979† | -23.6          | 0.04631  | mg/L            | 0.001011 | 0.09263  | mg/L  | 0.002022 | 2.18%  |
| B 249.677†  | 48.1           | 0.00847  | mg/L            | 0.000814 | 0.01694  | mg/L  | 0.001628 | 9.61%  |
| Ba 233.527† | 3255.3         | 0.4420   | mg/L            | 0.00194  | 0.8841   | mg/L  | 0.00388  | 0.44%  |
| Be 313.042† | 2290.8         | 0.00237  | mg/L            | 0.000014 | 0.00475  | mg/L  | 0.000029 | 0.61%  |
| Ca 317.933† | 372481.0       | 32.04    | mg/L            | 0.033    | 64.08    | mg/L  | 0.067    | 0.10%  |
| Cd 228.802† | 27.7           | 0.00128  | mg/L            | 0.000120 | 0.00257  | mg/L  | 0.000239 | 9.33%  |
| Co 228.616† | 2529.8         | 0.06682  | mg/L            | 0.000111 | 0.1336   | mg/L  | 0.00022  | 0.17%  |
| Cr 267.716† | 2793.4         | 0.3535   | mg/L            | 0.00212  | 0.7071   | mg/L  | 0.00424  | 0.60%  |
| Cu 324.752† | 32850.5        | 0.1473   | mg/L            | 0.00064  | 0.2945   | mg/L  | 0.00128  | 0.44%  |
| Fe 273.955† | 207974.0       | 162.6    | mg/L            | 0.58     | 325.2    | mg/L  | 1.17     | 0.36%  |
| K 766.490†  | 7988.1         | 4.343    | mg/L            | 0.0260   | 8.687    | mg/L  | 0.0520   | 0.60%  |
| Mg 279.077† | 60918.4        | 48.40    | mg/L            | 0.092    | 96.80    | mg/L  | 0.184    | 0.19%  |
| Mn 257.610† | 87587.5        | 1.857    | mg/L            | 0.0082   | 3.715    | mg/L  | 0.0165   | 0.44%  |
| Mo 202.031† | 36.5           | 0.00168  | mg/L            | 0.000772 | 0.00337  | mg/L  | 0.001543 | 45.80% |
| Na 589.592† | 16471.6        | 1.312    | mg/L            | 0.0036   | 2.624    | mg/L  | 0.0071   | 0.27%  |
| Na 330.237† | 7.8            | 2.953    | mg/L            | 0.1067   | 5.906    | mg/L  | 0.2135   | 3.61%  |
| Ni 231.604† | 1408.4         | 0.3866   | mg/L            | 0.00146  | 0.7732   | mg/L  | 0.00292  | 0.38%  |
| Pb 220.353† | -3.2           | 0.02072  | mg/L            | 0.000364 | 0.04144  | mg/L  | 0.000728 | 1.76%  |
| Sb 206.836† | -12.0          | 0.00542  | mg/L            | 0.001648 | 0.01085  | mg/L  | 0.003295 | 30.38% |
| Se 196.026† | 32.2           | 0.01723  | mg/L            | 0.007782 | 0.03447  | mg/L  | 0.015564 | 45.16% |
| Si 288.158† | 12582.2        | 7.598    | mg/L            | 0.0373   | 15.20    | mg/L  | 0.075    | 0.49%  |
| Sn 189.927† | -69.6          | -0.00231 | mg/L            | 0.000803 | -0.00462 | mg/L  | 0.001605 | 34.73% |
| Sr 421.552† | 173128.3       | 0.2001   | mg/L            | 0.00044  | 0.4002   | mg/L  | 0.00088  | 0.22%  |
| Ti 334.903† | 252934.8       | 8.108    | mg/L            | 0.0255   | 16.22    | mg/L  | 0.051    | 0.31%  |
| Tl 190.801† | -15.8          | 0.01140  | mg/L            | 0.007768 | 0.02280  | mg/L  | 0.015537 | 68.14% |
| V 292.402†  | 67379.4        | 0.4229   | mg/L            | 0.00318  | 0.8457   | mg/L  | 0.00637  | 0.75%  |
| Zn 206.200† | 1003.7         | 0.2514   | mg/L            | 0.00104  | 0.5028   | mg/L  | 0.00209  | 0.42%  |



Sequence No.: 38  
Sample ID: SS71 J SWC

Autosampler Location: 330  
Date Collected: 4/27/2011 11:28:18 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 J SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 J SWC

| Analyte     | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD     |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 2457083.2                | 110.1 %            | 0.90     |                    |          | 0.81%   |
| ScR 361.383 | 444516.8                 | 111.7 %            | 0.83     |                    |          | 0.74%   |
| Ag 328.068† | 137.0                    | 0.00043 mg/L       | 0.000076 | 0.00086 mg/L       | 0.000152 | 17.65%  |
| Al 308.215† | 161922.3                 | 116.0 mg/L         | 0.21     | 232.0 mg/L         | 0.43     | 0.18%   |
| As 188.979† | 33.6                     | 0.07429 mg/L       | 0.003431 | 0.1486 mg/L        | 0.00686  | 4.62%   |
| B 249.677†  | 56.6                     | 0.01001 mg/L       | 0.001402 | 0.02002 mg/L       | 0.002803 | 14.00%  |
| Ba 233.527† | 3529.3                   | 0.4815 mg/L        | 0.00438  | 0.9629 mg/L        | 0.00877  | 0.91%   |
| Be 313.042† | 1749.0                   | 0.00179 mg/L       | 0.000040 | 0.00358 mg/L       | 0.000081 | 2.26%   |
| Ca 317.933† | 517032.5                 | 44.48 mg/L         | 0.190    | 88.95 mg/L         | 0.380    | 0.43%   |
| Cd 228.802† | 67.3                     | 0.00253 mg/L       | 0.000115 | 0.00505 mg/L       | 0.000230 | 4.55%   |
| Co 228.616† | 2349.9                   | 0.06335 mg/L       | 0.000628 | 0.1267 mg/L        | 0.00126  | 0.99%   |
| Cr 267.716† | 2501.6                   | 0.3163 mg/L        | 0.00155  | 0.6326 mg/L        | 0.00309  | 0.49%   |
| Cu 324.752† | 38367.8                  | 0.1705 mg/L        | 0.00244  | 0.3410 mg/L        | 0.00488  | 1.43%   |
| Fe 273.955† | 182602.1                 | 142.8 mg/L         | 0.71     | 285.5 mg/L         | 1.42     | 0.50%   |
| K 766.490†  | 11814.6                  | 6.424 mg/L         | 0.0490   | 12.85 mg/L         | 0.098    | 0.76%   |
| Mg 279.077† | 53827.9                  | 42.77 mg/L         | 0.121    | 85.53 mg/L         | 0.241    | 0.28%   |
| Mn 257.610† | 104063.6                 | 2.207 mg/L         | 0.0171   | 4.414 mg/L         | 0.0343   | 0.78%   |
| Mo 202.031† | 85.6                     | 0.00451 mg/L       | 0.000091 | 0.00903 mg/L       | 0.000183 | 2.02%   |
| Na 589.592† | 22260.5                  | 1.773 mg/L         | 0.0132   | 3.546 mg/L         | 0.0263   | 0.74%   |
| Na 330.237† | 39.7                     | 3.588 mg/L         | 0.0924   | 7.176 mg/L         | 0.1849   | 2.58%   |
| Ni 231.604† | 1179.4                   | 0.3237 mg/L        | 0.00550  | 0.6475 mg/L        | 0.01100  | 1.70%   |
| Pb 220.353† | 1451.3                   | 0.1894 mg/L        | 0.00207  | 0.3787 mg/L        | 0.00413  | 1.09%   |
| Sb 206.836† | -5.8                     | 0.00596 mg/L       | 0.001462 | 0.01192 mg/L       | 0.002924 | 24.52%  |
| Se 196.026† | 41.1                     | 0.02306 mg/L       | 0.006933 | 0.04613 mg/L       | 0.013865 | 30.06%  |
| Si 288.158† | 12213.0                  | 7.374 mg/L         | 0.0678   | 14.75 mg/L         | 0.136    | 0.92%   |
| Sn 189.927† | -72.8                    | -0.00012 mg/L      | 0.000376 | -0.00025 mg/L      | 0.000751 | 304.55% |
| Sr 421.552† | 201612.6                 | 0.2330 mg/L        | 0.00112  | 0.4660 mg/L        | 0.00223  | 0.48%   |
| Ti 334.903† | 210046.5                 | 6.730 mg/L         | 0.0401   | 13.46 mg/L         | 0.080    | 0.60%   |
| Tl 190.801† | -18.7                    | 0.00709 mg/L       | 0.006455 | 0.01418 mg/L       | 0.012910 | 91.03%  |
| V 292.402†  | 58610.6                  | 0.3681 mg/L        | 0.00661  | 0.7361 mg/L        | 0.01323  | 1.80%   |
| Zn 206.200† | 1647.6                   | 0.4127 mg/L        | 0.00429  | 0.8254 mg/L        | 0.00858  | 1.04%   |

Sequence No.: 39

Sample ID: SS71 K SWC

Autosampler Location: 331

Date Collected: 4/27/2011 11:32:16 AM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 K SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: SS71 K SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD    |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |        |
| ScA 357.253 | 2484875.3      | 111.4    | %               | 0.42     |          |       |          | 0.38%  |
| ScR 361.383 | 451076.1       | 113.3    | %               | 0.62     |          |       |          | 0.55%  |
| Ag 328.068† | 127.0          | 0.00033  | mg/L            | 0.000119 | 0.00065  | mg/L  | 0.000238 | 36.46% |
| Al 308.215† | 168834.9       | 121.0    | mg/L            | 0.65     | 241.9    | mg/L  | 1.30     | 0.54%  |
| As 188.979† | 2.3            | 0.05723  | mg/L            | 0.001271 | 0.1145   | mg/L  | 0.00254  | 2.22%  |
| B 249.677†  | 47.4           | 0.00834  | mg/L            | 0.000659 | 0.01667  | mg/L  | 0.001319 | 7.91%  |
| Ba 233.527† | 3239.2         | 0.4404   | mg/L            | 0.00263  | 0.8808   | mg/L  | 0.00526  | 0.60%  |
| Be 313.042† | 1617.9         | 0.00162  | mg/L            | 0.000006 | 0.00325  | mg/L  | 0.000013 | 0.40%  |
| Ca 317.933† | 449092.1       | 38.63    | mg/L            | 0.152    | 77.26    | mg/L  | 0.304    | 0.39%  |
| Cd 228.802† | 41.6           | 0.00168  | mg/L            | 0.000116 | 0.00336  | mg/L  | 0.000232 | 6.88%  |
| Co 228.616† | 2616.2         | 0.07091  | mg/L            | 0.000703 | 0.1418   | mg/L  | 0.00141  | 0.99%  |
| Cr 267.716† | 2686.5         | 0.3398   | mg/L            | 0.00207  | 0.6795   | mg/L  | 0.00414  | 0.61%  |
| Cu 324.752† | 31690.3        | 0.1421   | mg/L            | 0.00194  | 0.2841   | mg/L  | 0.00389  | 1.37%  |
| Fe 273.955† | 196427.4       | 153.6    | mg/L            | 0.98     | 307.1    | mg/L  | 1.96     | 0.64%  |
| K 766.490†  | 10871.2        | 5.911    | mg/L            | 0.0254   | 11.82    | mg/L  | 0.051    | 0.43%  |
| Mg 279.077† | 58887.2        | 46.79    | mg/L            | 0.241    | 93.57    | mg/L  | 0.482    | 0.51%  |
| Mn 257.610† | 119396.2       | 2.532    | mg/L            | 0.0191   | 5.064    | mg/L  | 0.0383   | 0.76%  |
| Mo 202.031† | 60.1           | 0.00303  | mg/L            | 0.000725 | 0.00606  | mg/L  | 0.001451 | 23.93% |
| Na 589.592† | 19318.4        | 1.539    | mg/L            | 0.0092   | 3.078    | mg/L  | 0.0185   | 0.60%  |
| Na 330.237† | 28.9           | 3.415    | mg/L            | 0.1337   | 6.830    | mg/L  | 0.2673   | 3.91%  |
| Ni 231.604† | 1199.7         | 0.3293   | mg/L            | 0.00201  | 0.6586   | mg/L  | 0.00401  | 0.61%  |
| Pb 220.353† | 312.3          | 0.05268  | mg/L            | 0.001259 | 0.1054   | mg/L  | 0.00252  | 2.39%  |
| Sb 206.836† | -9.5           | 0.00518  | mg/L            | 0.000902 | 0.01036  | mg/L  | 0.001803 | 17.40% |
| Se 196.026† | 37.7           | 0.02085  | mg/L            | 0.002525 | 0.04170  | mg/L  | 0.005049 | 12.11% |
| Si 288.158† | 14385.2        | 8.685    | mg/L            | 0.0373   | 17.37    | mg/L  | 0.075    | 0.43%  |
| Sn 189.927† | -70.9          | -0.00110 | mg/L            | 0.000820 | -0.00220 | mg/L  | 0.001641 | 74.49% |
| Sr 421.552† | 209743.5       | 0.2424   | mg/L            | 0.00126  | 0.4848   | mg/L  | 0.00252  | 0.52%  |
| Ti 334.903† | 226971.2       | 7.274    | mg/L            | 0.0434   | 14.55    | mg/L  | 0.087    | 0.60%  |
| Tl 190.801† | -22.6          | 0.00612  | mg/L            | 0.004917 | 0.01223  | mg/L  | 0.009833 | 80.40% |
| V 292.402†  | 62549.8        | 0.3927   | mg/L            | 0.00498  | 0.7854   | mg/L  | 0.00996  | 1.27%  |
| Zn 206.200† | 1195.8         | 0.2995   | mg/L            | 0.00141  | 0.5990   | mg/L  | 0.00282  | 0.47%  |

Sequence No.: 40  
Sample ID: SS71 L SWC

Autosampler Location: 332  
Date Collected: 4/27/2011 11:36:14 AM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 L SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 L SWC

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample      |      | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------------|----------|-------------|------|----------|---------|
|             | Intensity      |          |                       |          | Conc. Units |      |          |         |
| ScA 357.253 | 2483890.2      |          | 111.3 %               | 1.52     |             |      |          | 1.36%   |
| ScR 361.383 | 450813.7       |          | 113.3 %               | 0.87     |             |      |          | 0.77%   |
| Ag 328.068† | 114.7          | 0.00028  | mg/L                  | 0.000115 | 0.00056     | mg/L | 0.000229 | 40.68%  |
| Al 308.215† | 169648.1       | 121.5    | mg/L                  | 0.79     | 243.1       | mg/L | 1.58     | 0.65%   |
| As 188.979† | 15.3           | 0.06484  | mg/L                  | 0.001618 | 0.1297      | mg/L | 0.00324  | 2.50%   |
| B 249.677†  | 51.3           | 0.00906  | mg/L                  | 0.001046 | 0.01812     | mg/L | 0.002093 | 11.55%  |
| Ba 233.527† | 3156.5         | 0.4294   | mg/L                  | 0.00371  | 0.8589      | mg/L | 0.00742  | 0.86%   |
| Be 313.042† | 1647.4         | 0.00167  | mg/L                  | 0.000017 | 0.00333     | mg/L | 0.000033 | 0.99%   |
| Ca 317.933† | 463059.5       | 39.83    | mg/L                  | 0.196    | 79.67       | mg/L | 0.393    | 0.49%   |
| Cd 228.802† | 39.6           | 0.00157  | mg/L                  | 0.000184 | 0.00313     | mg/L | 0.000368 | 11.73%  |
| Co 228.616† | 2382.7         | 0.06381  | mg/L                  | 0.001236 | 0.1276      | mg/L | 0.00247  | 1.94%   |
| Cr 267.716† | 2545.0         | 0.3219   | mg/L                  | 0.00241  | 0.6439      | mg/L | 0.00482  | 0.75%   |
| Cu 324.752† | 33319.2        | 0.1487   | mg/L                  | 0.00120  | 0.2975      | mg/L | 0.00241  | 0.81%   |
| Fe 273.955† | 185523.3       | 145.0    | mg/L                  | 0.96     | 290.1       | mg/L | 1.92     | 0.66%   |
| K 766.490†  | 8981.0         | 4.883    | mg/L                  | 0.0022   | 9.767       | mg/L | 0.0045   | 0.05%   |
| Mg 279.077† | 53137.9        | 42.22    | mg/L                  | 0.230    | 84.43       | mg/L | 0.461    | 0.55%   |
| Mn 257.610† | 112708.5       | 2.390    | mg/L                  | 0.0180   | 4.780       | mg/L | 0.0361   | 0.75%   |
| Mo 202.031† | 65.4           | 0.00334  | mg/L                  | 0.000256 | 0.00668     | mg/L | 0.000512 | 7.65%   |
| Na 589.592† | 20669.8        | 1.646    | mg/L                  | 0.0064   | 3.293       | mg/L | 0.0127   | 0.39%   |
| Na 330.237† | 34.8           | 3.559    | mg/L                  | 0.2075   | 7.117       | mg/L | 0.4151   | 5.83%   |
| Ni 231.604† | 1136.3         | 0.3119   | mg/L                  | 0.00224  | 0.6238      | mg/L | 0.00448  | 0.72%   |
| Pb 220.353† | 454.3          | 0.07034  | mg/L                  | 0.000381 | 0.1407      | mg/L | 0.00076  | 0.54%   |
| Sb 206.836† | -9.0           | 0.00521  | mg/L                  | 0.000847 | 0.01042     | mg/L | 0.001694 | 16.26%  |
| Se 196.026† | 39.8           | 0.02275  | mg/L                  | 0.008321 | 0.04550     | mg/L | 0.016642 | 36.58%  |
| Si 288.158† | 7420.2         | 4.482    | mg/L                  | 0.0319   | 8.964       | mg/L | 0.0639   | 0.71%   |
| Sn 189.927† | -73.4          | -0.00133 | mg/L                  | 0.001515 | -0.00267    | mg/L | 0.003030 | 113.66% |
| Sr 421.552† | 183068.2       | 0.2116   | mg/L                  | 0.00126  | 0.4232      | mg/L | 0.00253  | 0.60%   |
| Ti 334.903† | 221454.4       | 7.097    | mg/L                  | 0.0482   | 14.19       | mg/L | 0.096    | 0.68%   |
| Tl 190.801† | -21.6          | 0.00560  | mg/L                  | 0.002177 | 0.01121     | mg/L | 0.004354 | 38.84%  |
| V 292.402†  | 60306.5        | 0.3788   | mg/L                  | 0.00402  | 0.7575      | mg/L | 0.00804  | 1.06%   |
| Zn 206.200† | 1300.2         | 0.3257   | mg/L                  | 0.00102  | 0.6514      | mg/L | 0.00204  | 0.31%   |

Sequence No.: 41

Sample ID: SS71 MB1SPK SWC

Autosampler Location: 333

Date Collected: 4/27/2011 11:40:11 AM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 MB1SPK SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 209.0 kPa     | 0.75 L/min |

Mean Data: SS71 MB1SPK SWC

| Analyte     | Mean Corrected |          | Calib. |          | Sample   |       | RSD              |
|-------------|----------------|----------|--------|----------|----------|-------|------------------|
|             | Intensity      | Conc.    | Units  | Std.Dev. | Conc.    | Units |                  |
| ScA 357.253 | 2467537.3      | 110.6    | %      | 0.71     |          |       | 0.64%            |
| ScR 361.383 | 437393.9       | 109.9    | %      | 0.23     |          |       | 0.21%            |
| Ag 328.068† | 95388.4        | 0.5143   | mg/L   | 0.00077  | 1.029    | mg/L  | 0.0015 0.15%     |
| Al 308.215† | 2849.2         | 2.032    | mg/L   | 0.0592   | 4.064    | mg/L  | 0.1183 2.91%     |
| As 188.979† | 2824.4         | 1.987    | mg/L   | 0.0084   | 3.975    | mg/L  | 0.0168 0.42%     |
| B 249.677†  | -1.5           | -0.00142 | mg/L   | 0.000360 | -0.00284 | mg/L  | 0.000721 25.42%  |
| Ba 233.527† | 14136.7        | 1.966    | mg/L   | 0.0112   | 3.932    | mg/L  | 0.0223 0.57%     |
| Be 313.042† | 430100.4       | 0.4899   | mg/L   | 0.00431  | 0.9797   | mg/L  | 0.00862 0.88%    |
| Ca 317.933† | 110987.7       | 9.547    | mg/L   | 0.0271   | 19.09    | mg/L  | 0.054 0.28%      |
| Cd 228.802† | 13689.1        | 0.4851   | mg/L   | 0.00253  | 0.9701   | mg/L  | 0.00505 0.52%    |
| Co 228.616† | 15112.0        | 0.4779   | mg/L   | 0.00329  | 0.9558   | mg/L  | 0.00658 0.69%    |
| Cr 267.716† | 3910.0         | 0.4892   | mg/L   | 0.00407  | 0.9784   | mg/L  | 0.00814 0.83%    |
| Cu 324.752† | 111958.9       | 0.4833   | mg/L   | 0.00381  | 0.9666   | mg/L  | 0.00762 0.79%    |
| Fe 273.955† | 2612.9         | 2.040    | mg/L   | 0.0694   | 4.080    | mg/L  | 0.1389 3.40%     |
| K 766.490†  | 18199.7        | 9.896    | mg/L   | 0.0614   | 19.79    | mg/L  | 0.123 0.62%      |
| Mg 279.077† | 12633.6        | 10.05    | mg/L   | 0.080    | 20.11    | mg/L  | 0.160 0.80%      |
| Mn 257.610† | 22740.4        | 0.4827   | mg/L   | 0.00305  | 0.9653   | mg/L  | 0.00611 0.63%    |
| Mo 202.031† | 19.4           | 0.00103  | mg/L   | 0.000124 | 0.00206  | mg/L  | 0.000248 12.03%  |
| Na 589.592† | 123355.0       | 9.826    | mg/L   | 0.0676   | 19.65    | mg/L  | 0.135 0.69%      |
| Na 330.237† | 307.3          | 10.88    | mg/L   | 0.120    | 21.75    | mg/L  | 0.241 1.11%      |
| Ni 231.604† | 1811.5         | 0.4972   | mg/L   | 0.00217  | 0.9945   | mg/L  | 0.00434 0.44%    |
| Pb 220.353† | 16081.7        | 1.936    | mg/L   | 0.0158   | 3.873    | mg/L  | 0.0315 0.81%     |
| Sb 206.836† | 5.8            | -0.00083 | mg/L   | 0.001952 | -0.00167 | mg/L  | 0.003903 233.96% |
| Se 196.026† | 2516.6         | 2.047    | mg/L   | 0.0079   | 4.095    | mg/L  | 0.0157 0.38%     |
| Si 288.158† | 3.1            | 0.00491  | mg/L   | 0.003008 | 0.00982  | mg/L  | 0.006015 61.28%  |
| Sn 189.927† | -18.9          | -0.00117 | mg/L   | 0.001063 | -0.00233 | mg/L  | 0.002126 91.14%  |
| Sr 421.552† | 431093.8       | 0.4982   | mg/L   | 0.00246  | 0.9965   | mg/L  | 0.00492 0.49%    |
| Ti 334.903† | 111.5          | 0.00184  | mg/L   | 0.003101 | 0.00368  | mg/L  | 0.006201 168.29% |
| Tl 190.801† | 3259.0         | 1.966    | mg/L   | 0.0123   | 3.933    | mg/L  | 0.0247 0.63%     |
| V 292.402†  | 73764.9        | 0.4831   | mg/L   | 0.00717  | 0.9663   | mg/L  | 0.01434 1.48%    |
| Zn 206.200† | 1966.7         | 0.4927   | mg/L   | 0.00418  | 0.9855   | mg/L  | 0.00837 0.85%    |

Sequence No.: 42

Sample ID: CV 4

Autosampler Location: 7

Date Collected: 4/27/2011 11:44:09 AM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: CV

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

## Mean Data: CV

| Analyte     | Mean Corrected |        | Calib. |          | Sample |       | RSD   |
|-------------|----------------|--------|--------|----------|--------|-------|-------|
|             | Intensity      | Conc.  | Units  | Std.Dev. | Conc.  | Units |       |
| ScA 357.253 | 2428235.3      | 108.8  | %      | 0.26     |        |       | 0.24% |
| ScR 361.383 | 432317.5       | 108.6  | %      | 0.85     |        |       | 0.78% |
| Ag 328.068† | 179606.8       | 0.9682 | mg/L   | 0.00336  | 0.9682 | mg/L  | 0.35% |
| Al 308.215† | 2796.9         | 1.972  | mg/L   | 0.0185   | 1.972  | mg/L  | 0.94% |
| As 188.979† | 2800.0         | 1.977  | mg/L   | 0.0083   | 1.977  | mg/L  | 0.42% |
| B 249.677†  | 5552.6         | 0.9986 | mg/L   | 0.00473  | 0.9986 | mg/L  | 0.47% |
| Ba 233.527† | 6983.0         | 0.9708 | mg/L   | 0.00643  | 0.9708 | mg/L  | 0.66% |
| Be 313.042† | 871987.7       | 0.9932 | mg/L   | 0.00412  | 0.9932 | mg/L  | 0.41% |
| Ca 317.933† | 23264.3        | 2.001  | mg/L   | 0.0171   | 2.001  | mg/L  | 0.86% |
| Cd 228.802† | 28047.9        | 1.001  | mg/L   | 0.0018   | 1.001  | mg/L  | 0.18% |
| Co 228.616† | 30277.4        | 0.9569 | mg/L   | 0.00346  | 0.9569 | mg/L  | 0.36% |
| Cr 267.716† | 7856.0         | 0.9841 | mg/L   | 0.00856  | 0.9841 | mg/L  | 0.87% |
| Cu 324.752† | 222598.3       | 0.9605 | mg/L   | 0.00402  | 0.9605 | mg/L  | 0.42% |
| Fe 273.955† | 2537.6         | 1.979  | mg/L   | 0.0152   | 1.979  | mg/L  | 0.77% |
| K 766.490†  | 36291.5        | 19.73  | mg/L   | 0.137    | 19.73  | mg/L  | 0.69% |
| Mg 279.077† | 2458.2         | 1.960  | mg/L   | 0.0110   | 1.960  | mg/L  | 0.56% |
| Mn 257.610† | 45540.3        | 0.9662 | mg/L   | 0.00919  | 0.9662 | mg/L  | 0.95% |
| Mo 202.031† | 15496.7        | 0.9668 | mg/L   | 0.00369  | 0.9668 | mg/L  | 0.38% |
| Na 589.592† | 627942.2       | 50.02  | mg/L   | 0.105    | 50.02  | mg/L  | 0.21% |
| Na 330.237† | 1430.1         | 51.28  | mg/L   | 0.206    | 51.28  | mg/L  | 0.40% |
| Ni 231.604† | 3690.9         | 1.014  | mg/L   | 0.0033   | 1.014  | mg/L  | 0.33% |
| Pb 220.353† | 16495.4        | 1.987  | mg/L   | 0.0100   | 1.987  | mg/L  | 0.50% |
| Sb 206.836† | 4897.9         | 1.967  | mg/L   | 0.0097   | 1.967  | mg/L  | 0.49% |
| Se 196.026† | 2460.9         | 2.004  | mg/L   | 0.0103   | 2.004  | mg/L  | 0.51% |
| Si 288.158† | 3326.9         | 2.013  | mg/L   | 0.0142   | 2.013  | mg/L  | 0.71% |
| Sn 189.927† | 4868.9         | 0.9566 | mg/L   | 0.00466  | 0.9566 | mg/L  | 0.49% |
| Sr 421.552† | 871686.9       | 1.007  | mg/L   | 0.0035   | 1.007  | mg/L  | 0.34% |
| Ti 334.903† | 29393.3        | 0.9412 | mg/L   | 0.00227  | 0.9412 | mg/L  | 0.24% |
| Tl 190.801† | 3237.3         | 1.955  | mg/L   | 0.0125   | 1.955  | mg/L  | 0.64% |
| V 292.402†  | 144630.8       | 0.9479 | mg/L   | 0.00584  | 0.9479 | mg/L  | 0.62% |
| Zn 206.200† | 3947.9         | 0.9887 | mg/L   | 0.00210  | 0.9887 | mg/L  | 0.21% |

Sequence No.: 43  
 Sample ID: CB<sub>e</sub>

Autosampler Location: 1  
 Date Collected: 4/27/2011 11:47:10 AM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow  
 All 208.0 kPa 0.75 L/min

Mean Data: CB

| Analyte     | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD     |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 2445018.6                | 109.6 %            | 0.81     |                    |          | 0.74%   |
| ScR 361.383 | 440757.5                 | 110.8 %            | 0.75     |                    |          | 0.68%   |
| Ag 328.068† | 152.4                    | 0.00082 mg/L       | 0.000183 | 0.00082 mg/L       | 0.000183 | 22.25%  |
| Al 308.215† | 48.2                     | 0.03456 mg/L       | 0.014900 | 0.03456 mg/L       | 0.014900 | 43.12%  |
| As 188.979† | 1.5                      | 0.00105 mg/L       | 0.001099 | 0.00105 mg/L       | 0.001099 | 104.49% |
| B 249.677†  | 4.6                      | 0.00082 mg/L       | 0.000183 | 0.00082 mg/L       | 0.000183 | 22.18%  |
| Ba 233.527† | -2.9                     | -0.00041 mg/L      | 0.000313 | -0.00041 mg/L      | 0.000313 | 77.19%  |
| Be 313.042† | -15.0                    | -0.00002 mg/L      | 0.000023 | -0.00002 mg/L      | 0.000023 | 132.20% |
| Ca 317.933† | 42.5                     | 0.00366 mg/L       | 0.001903 | 0.00366 mg/L       | 0.001903 | 52.01%  |
| Cd 228.802† | -5.3                     | -0.00019 mg/L      | 0.000146 | -0.00019 mg/L      | 0.000146 | 75.54%  |
| Co 228.616† | 10.8                     | 0.00035 mg/L       | 0.000083 | 0.00035 mg/L       | 0.000083 | 24.12%  |
| Cr 267.716† | -4.0                     | -0.00050 mg/L      | 0.000533 | -0.00050 mg/L      | 0.000533 | 107.15% |
| Cu 324.752† | -56.2                    | -0.00024 mg/L      | 0.000097 | -0.00024 mg/L      | 0.000097 | 40.29%  |
| Fe 273.955† | 5.3                      | 0.00418 mg/L       | 0.000632 | 0.00418 mg/L       | 0.000632 | 15.13%  |
| K 766.490†  | 120.0                    | 0.06524 mg/L       | 0.008545 | 0.06524 mg/L       | 0.008545 | 13.10%  |
| Mg 279.077† | 25.3                     | 0.02012 mg/L       | 0.006205 | 0.02012 mg/L       | 0.006205 | 30.84%  |
| Mn 257.610† | -7.2                     | -0.00015 mg/L      | 0.000074 | -0.00015 mg/L      | 0.000074 | 48.95%  |
| Mo 202.031† | -7.5                     | -0.00047 mg/L      | 0.000022 | -0.00047 mg/L      | 0.000022 | 4.66%   |
| Na 589.592† | -239.1                   | -0.01905 mg/L      | 0.003011 | -0.01905 mg/L      | 0.003011 | 15.81%  |
| Na 330.237† | 35.0                     | 1.253 mg/L         | 0.3469   | 1.253 mg/L         | 0.3469   | 27.69%  |
| Ni 231.604† | 3.7                      | 0.00101 mg/L       | 0.001429 | 0.00101 mg/L       | 0.001429 | 141.85% |
| Pb 220.353† | 9.1                      | 0.00110 mg/L       | 0.000922 | 0.00110 mg/L       | 0.000922 | 83.43%  |
| Sb 206.836† | -0.8                     | -0.00032 mg/L      | 0.001261 | -0.00032 mg/L      | 0.001261 | 399.08% |
| Se 196.026† | 5.4                      | 0.00440 mg/L       | 0.001366 | 0.00440 mg/L       | 0.001366 | 31.01%  |
| Si 288.158† | 1.1                      | 0.00067 mg/L       | 0.002728 | 0.00067 mg/L       | 0.002728 | 404.18% |
| Sn 189.927† | 1.5                      | 0.00030 mg/L       | 0.000071 | 0.00030 mg/L       | 0.000071 | 23.60%  |
| Sr 421.552† | 95.8                     | 0.00011 mg/L       | 0.000011 | 0.00011 mg/L       | 0.000011 | 10.38%  |
| Ti 334.903† | -40.5                    | -0.00130 mg/L      | 0.000274 | -0.00130 mg/L      | 0.000274 | 21.15%  |
| Tl 190.801† | 5.3                      | 0.00322 mg/L       | 0.001135 | 0.00322 mg/L       | 0.001135 | 35.30%  |
| V 292.402†  | 26.4                     | 0.00017 mg/L       | 0.000130 | 0.00017 mg/L       | 0.000130 | 76.54%  |
| Zn 206.200† | 3.9                      | 0.00098 mg/L       | 0.000126 | 0.00098 mg/L       | 0.000126 | 12.85%  |

Sequence No.: 44  
Sample ID: SS83 MB2 TWC

Autosampler Location: 334  
Date Collected: 4/27/2011 11:51:23 AM  
Data Type: Original

Dilution: 1X

Nebulizer Parameters: SS83 MB2 TWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS83 MB2 TWC

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                       |          | Conc.    | Units |          |         |
| ScA 357.253 | 2461162.5      | 110.3    | %                     | 0.37     |          |       |          | 0.33%   |
| ScR 361.383 | 437274.1       | 109.9    | %                     | 0.96     |          |       |          | 0.88%   |
| Ag 328.068† | 195.3          | 0.00105  | mg/L                  | 0.000155 | 0.00105  | mg/L  | 0.000155 | 14.71%  |
| Al 308.215† | 35.1           | 0.02515  | mg/L                  | 0.007407 | 0.02515  | mg/L  | 0.007407 | 29.46%  |
| As 188.979† | 1.8            | 0.00129  | mg/L                  | 0.001329 | 0.00129  | mg/L  | 0.001329 | 103.08% |
| B 249.677†  | -2.4           | -0.00044 | mg/L                  | 0.000291 | -0.00044 | mg/L  | 0.000291 | 66.14%  |
| Ba 233.527† | -2.7           | -0.00037 | mg/L                  | 0.000193 | -0.00037 | mg/L  | 0.000193 | 51.81%  |
| Be 313.042† | -35.5          | -0.00004 | mg/L                  | 0.000019 | -0.00004 | mg/L  | 0.000019 | 46.40%  |
| Ca 317.933† | 128.4          | 0.01105  | mg/L                  | 0.000765 | 0.01105  | mg/L  | 0.000765 | 6.92%   |
| Cd 228.802† | -6.2           | -0.00023 | mg/L                  | 0.000148 | -0.00023 | mg/L  | 0.000148 | 65.54%  |
| Co 228.616† | 10.9           | 0.00034  | mg/L                  | 0.000035 | 0.00034  | mg/L  | 0.000035 | 10.05%  |
| Cr 267.716† | 0.5            | 0.00007  | mg/L                  | 0.000725 | 0.00007  | mg/L  | 0.000725 | >999.9% |
| Cu 324.752† | -64.2          | -0.00028 | mg/L                  | 0.000050 | -0.00028 | mg/L  | 0.000050 | 18.08%  |
| Fe 273.955† | 13.8           | 0.01076  | mg/L                  | 0.001309 | 0.01076  | mg/L  | 0.001309 | 12.16%  |
| K 766.490†  | 299.3          | 0.1628   | mg/L                  | 0.01277  | 0.1628   | mg/L  | 0.01277  | 7.84%   |
| Mg 279.077† | 17.9           | 0.01423  | mg/L                  | 0.006512 | 0.01423  | mg/L  | 0.006512 | 45.77%  |
| Mn 257.610† | -0.4           | -0.00001 | mg/L                  | 0.000057 | -0.00001 | mg/L  | 0.000057 | 630.28% |
| Mo 202.031† | -9.0           | -0.00056 | mg/L                  | 0.000157 | -0.00056 | mg/L  | 0.000157 | 28.08%  |
| Na 589.592† | -269.5         | -0.02147 | mg/L                  | 0.002101 | -0.02147 | mg/L  | 0.002101 | 9.79%   |
| Na 330.237† | 26.7           | 0.9552   | mg/L                  | 0.11163  | 0.9552   | mg/L  | 0.11163  | 11.69%  |
| Ni 231.604† | 4.2            | 0.00114  | mg/L                  | 0.000751 | 0.00114  | mg/L  | 0.000751 | 65.64%  |
| Pb 220.353† | 16.7           | 0.00202  | mg/L                  | 0.000990 | 0.00202  | mg/L  | 0.000990 | 49.00%  |
| Sb 206.836† | -3.9           | -0.00156 | mg/L                  | 0.000969 | -0.00156 | mg/L  | 0.000969 | 61.96%  |
| Se 196.026† | 12.7           | 0.01035  | mg/L                  | 0.002343 | 0.01035  | mg/L  | 0.002343 | 22.62%  |
| Si 288.158† | 9.5            | 0.00574  | mg/L                  | 0.004497 | 0.00574  | mg/L  | 0.004497 | 78.38%  |
| Sn 189.927† | 2.4            | 0.00047  | mg/L                  | 0.000748 | 0.00047  | mg/L  | 0.000748 | 157.81% |
| Sr 421.552† | 85.5           | 0.00010  | mg/L                  | 0.000034 | 0.00010  | mg/L  | 0.000034 | 34.60%  |
| Ti 334.903† | -11.2          | -0.00036 | mg/L                  | 0.000098 | -0.00036 | mg/L  | 0.000098 | 27.36%  |
| Tl 190.801† | 3.5            | 0.00214  | mg/L                  | 0.000304 | 0.00214  | mg/L  | 0.000304 | 14.23%  |
| V 292.402†  | 30.8           | 0.00020  | mg/L                  | 0.000085 | 0.00020  | mg/L  | 0.000085 | 42.40%  |
| Zn 206.200† | 7.7            | 0.00193  | mg/L                  | 0.000603 | 0.00193  | mg/L  | 0.000603 | 31.29%  |

Sequence No.: 45  
Sample ID: SS71 I SWC

Autosampler Location: 335  
Date Collected: 4/27/2011 11:55:21 AM  
Data Type: Original

Dilution: 2X

*DL*

Nebulizer Parameters: SS71 I SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 I SWC

| Analyte     | Mean Corrected |          | Calib. |          | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|--------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    | Units  | Std.Dev. | Conc.    | Units |          |         |
| ScA 357.253 | 2548090.1      | 114.2    | %      | 0.62     |          |       |          | 0.54%   |
| ScR 361.383 | 455902.5       | 114.6    | %      | 1.81     |          |       |          | 1.58%   |
| Ag 328.068† | 107.1          | 0.00041  | mg/L   | 0.000142 | 0.00082  | mg/L  | 0.000284 | 34.82%  |
| Al 308.215† | 205772.8       | 147.4    | mg/L   | 0.31     | 294.9    | mg/L  | 0.62     | 0.21%   |
| As 188.979† | -20.2          | 0.04302  | mg/L   | 0.003945 | 0.08605  | mg/L  | 0.007891 | 9.17%   |
| B 249.677†  | 52.8           | 0.00934  | mg/L   | 0.000712 | 0.01867  | mg/L  | 0.001423 | 7.62%   |
| Ba 233.527† | 3772.9         | 0.5145   | mg/L   | 0.00701  | 1.029    | mg/L  | 0.0140   | 1.36%   |
| Be 313.042† | 2932.0         | 0.00311  | mg/L   | 0.000108 | 0.00621  | mg/L  | 0.000216 | 3.47%   |
| Ca 317.933† | 417372.9       | 35.90    | mg/L   | 0.163    | 71.81    | mg/L  | 0.325    | 0.45%   |
| Cd 228.802† | 41.5           | 0.00177  | mg/L   | 0.000094 | 0.00355  | mg/L  | 0.000188 | 5.30%   |
| Co 228.616† | 2367.4         | 0.06272  | mg/L   | 0.000373 | 0.1254   | mg/L  | 0.00075  | 0.59%   |
| Cr 267.716† | 2794.8         | 0.3537   | mg/L   | 0.00422  | 0.7075   | mg/L  | 0.00843  | 1.19%   |
| Cu 324.752† | 38253.3        | 0.1704   | mg/L   | 0.00173  | 0.3409   | mg/L  | 0.00347  | 1.02%   |
| Fe 273.955† | 198590.1       | 155.2    | mg/L   | 0.15     | 310.5    | mg/L  | 0.30     | 0.10%   |
| K 766.490†  | 8846.0         | 4.810    | mg/L   | 0.0304   | 9.620    | mg/L  | 0.0607   | 0.63%   |
| Mg 279.077† | 53587.6        | 42.57    | mg/L   | 0.114    | 85.14    | mg/L  | 0.229    | 0.27%   |
| Mn 257.610† | 70854.4        | 1.503    | mg/L   | 0.0017   | 3.005    | mg/L  | 0.0033   | 0.11%   |
| Mo 202.031† | 42.2           | 0.00196  | mg/L   | 0.000199 | 0.00393  | mg/L  | 0.000399 | 10.14%  |
| Na 589.592† | 24508.4        | 1.952    | mg/L   | 0.0049   | 3.904    | mg/L  | 0.0099   | 0.25%   |
| Na 330.237† | 37.5           | 3.785    | mg/L   | 0.2084   | 7.570    | mg/L  | 0.4167   | 5.50%   |
| Ni 231.604† | 1411.5         | 0.3874   | mg/L   | 0.00562  | 0.7749   | mg/L  | 0.01123  | 1.45%   |
| Pb 220.353† | 84.1           | 0.03028  | mg/L   | 0.000996 | 0.06055  | mg/L  | 0.001992 | 3.29%   |
| Sb 206.836† | -17.0          | 0.00238  | mg/L   | 0.001110 | 0.00476  | mg/L  | 0.002219 | 46.62%  |
| Se 196.026† | 34.1           | 0.01865  | mg/L   | 0.004540 | 0.03729  | mg/L  | 0.009080 | 24.35%  |
| Si 288.158† | 11856.7        | 7.159    | mg/L   | 0.1043   | 14.32    | mg/L  | 0.209    | 1.46%   |
| Sn 189.927† | -76.1          | -0.00279 | mg/L   | 0.000627 | -0.00558 | mg/L  | 0.001255 | 22.50%  |
| Sr 421.552† | 241622.2       | 0.2793   | mg/L   | 0.00025  | 0.5585   | mg/L  | 0.00050  | 0.09%   |
| Ti 334.903† | 232439.4       | 7.450    | mg/L   | 0.0073   | 14.90    | mg/L  | 0.015    | 0.10%   |
| Tl 190.801† | -24.8          | 0.00497  | mg/L   | 0.007213 | 0.00994  | mg/L  | 0.014427 | 145.09% |
| V 292.402†  | 66926.7        | 0.4209   | mg/L   | 0.00405  | 0.8417   | mg/L  | 0.00811  | 0.96%   |
| Zn 206.200† | 1163.5         | 0.2914   | mg/L   | 0.00397  | 0.5828   | mg/L  | 0.00793  | 1.36%   |



Sequence No.: 46  
Sample ID: SS71 IDUP SWC

Autosampler Location: 336  
Date Collected: 4/27/2011 11:59:19 AM  
Data Type: Original

Dilution: 2X

*DEL*

Nebulizer Parameters: SS71 IDUP SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 IDUP SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2498895.3      | 112.0    | %               | 0.68     |          |       |          | 0.61%   |
| ScR 361.383 | 451467.2       | 113.4    | %               | 1.20     |          |       |          | 1.06%   |
| Ag 328.068† | 52.3           | 0.00008  | mg/L            | 0.000133 | 0.00016  | mg/L  | 0.000265 | 168.74% |
| Al 308.215† | 208364.8       | 149.3    | mg/L            | 1.27     | 298.6    | mg/L  | 2.54     | 0.85%   |
| As 188.979† | -18.9          | 0.04265  | mg/L            | 0.004036 | 0.08531  | mg/L  | 0.008073 | 9.46%   |
| B 249.677†  | 50.6           | 0.00893  | mg/L            | 0.000784 | 0.01785  | mg/L  | 0.001567 | 8.78%   |
| Ba 233.527† | 3688.0         | 0.5021   | mg/L            | 0.00514  | 1.004    | mg/L  | 0.0103   | 1.02%   |
| Be 313.042† | 2024.3         | 0.00207  | mg/L            | 0.000050 | 0.00414  | mg/L  | 0.000099 | 2.39%   |
| Ca 317.933† | 398736.2       | 34.30    | mg/L            | 0.541    | 68.60    | mg/L  | 1.083    | 1.58%   |
| Cd 228.802† | 27.8           | 0.00128  | mg/L            | 0.000297 | 0.00255  | mg/L  | 0.000594 | 23.28%  |
| Co 228.616† | 2404.7         | 0.06419  | mg/L            | 0.000251 | 0.1284   | mg/L  | 0.00050  | 0.39%   |
| Cr 267.716† | 2828.6         | 0.3582   | mg/L            | 0.00303  | 0.7165   | mg/L  | 0.00606  | 0.85%   |
| Cu 324.752† | 39030.8        | 0.1743   | mg/L            | 0.00158  | 0.3485   | mg/L  | 0.00316  | 0.91%   |
| Fe 273.955† | 210013.9       | 164.2    | mg/L            | 1.77     | 328.4    | mg/L  | 3.53     | 1.08%   |
| K 766.490†  | 9789.1         | 5.323    | mg/L            | 0.0663   | 10.65    | mg/L  | 0.133    | 1.24%   |
| Mg 279.077† | 56519.4        | 44.90    | mg/L            | 0.523    | 89.80    | mg/L  | 1.046    | 1.17%   |
| Mn 257.610† | 79867.9        | 1.694    | mg/L            | 0.0209   | 3.388    | mg/L  | 0.0418   | 1.23%   |
| Mo 202.031† | 40.7           | 0.00190  | mg/L            | 0.000238 | 0.00381  | mg/L  | 0.000475 | 12.48%  |
| Na 589.592† | 19417.0        | 1.547    | mg/L            | 0.0156   | 3.093    | mg/L  | 0.0312   | 1.01%   |
| Na 330.237† | 24.4           | 3.259    | mg/L            | 0.1365   | 6.518    | mg/L  | 0.2729   | 4.19%   |
| Ni 231.604† | 1400.0         | 0.3843   | mg/L            | 0.00474  | 0.7686   | mg/L  | 0.00948  | 1.23%   |
| Pb 220.353† | -22.6          | 0.01727  | mg/L            | 0.000760 | 0.03454  | mg/L  | 0.001519 | 4.40%   |
| Sb 206.836† | -13.8          | 0.00338  | mg/L            | 0.000994 | 0.00675  | mg/L  | 0.001988 | 29.44%  |
| Se 196.026† | 31.9           | 0.01693  | mg/L            | 0.004185 | 0.03386  | mg/L  | 0.008370 | 24.72%  |
| Si 288.158† | 9274.9         | 5.602    | mg/L            | 0.0474   | 11.20    | mg/L  | 0.095    | 0.85%   |
| Sn 189.927† | -68.2          | -0.00173 | mg/L            | 0.000840 | -0.00346 | mg/L  | 0.001681 | 48.51%  |
| Sr 421.552† | 244388.8       | 0.2824   | mg/L            | 0.00313  | 0.5649   | mg/L  | 0.00626  | 1.11%   |
| Ti 334.903† | 227012.4       | 7.276    | mg/L            | 0.0813   | 14.55    | mg/L  | 0.163    | 1.12%   |
| Tl 190.801† | -24.2          | 0.00654  | mg/L            | 0.003284 | 0.01309  | mg/L  | 0.006568 | 50.19%  |
| V 292.402†  | 67110.2        | 0.4215   | mg/L            | 0.00340  | 0.8430   | mg/L  | 0.00681  | 0.81%   |
| Zn 206.200† | 1133.2         | 0.2838   | mg/L            | 0.00210  | 0.5677   | mg/L  | 0.00420  | 0.74%   |

Sequence No.: 47

Autosampler Location: 337

Sample ID: SS71 N SWC

Date Collected: 4/27/2011 12:03:17 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 N SWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

Mean Data: SS71 N SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | RSD              |
|-------------|----------------|----------|-----------------|----------|----------|-------|------------------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |                  |
| ScA 357.253 | 2477380.1      | 111.0    | %               | 0.78     |          |       | 0.70%            |
| ScR 361.383 | 446836.5       | 112.3    | %               | 0.63     |          |       | 0.56%            |
| Ag 328.068† | 92.8           | 0.00019  | mg/L            | 0.000293 | 0.00039  | mg/L  | 0.000586 150.69% |
| Al 308.215† | 140377.3       | 100.6    | mg/L            | 0.35     | 201.1    | mg/L  | 0.71 0.35%       |
| As 188.979† | -13.8          | 0.04536  | mg/L            | 0.003326 | 0.09072  | mg/L  | 0.006653 7.33%   |
| B 249.677†  | 55.2           | 0.00978  | mg/L            | 0.000261 | 0.01955  | mg/L  | 0.000522 2.67%   |
| Ba 233.527† | 3092.3         | 0.4214   | mg/L            | 0.00321  | 0.8429   | mg/L  | 0.00642 0.76%    |
| Be 313.042† | 1275.1         | 0.00127  | mg/L            | 0.000031 | 0.00253  | mg/L  | 0.000062 2.44%   |
| Ca 317.933† | 501813.0       | 43.17    | mg/L            | 0.215    | 86.33    | mg/L  | 0.431 0.50%      |
| Cd 228.802† | 25.0           | 0.00113  | mg/L            | 0.000049 | 0.00225  | mg/L  | 0.000098 4.37%   |
| Co 228.616† | 2157.9         | 0.05644  | mg/L            | 0.000258 | 0.1129   | mg/L  | 0.00052 0.46%    |
| Cr 267.716† | 2111.4         | 0.2670   | mg/L            | 0.00216  | 0.5341   | mg/L  | 0.00431 0.81%    |
| Cu 324.752† | 20092.8        | 0.09092  | mg/L            | 0.000800 | 0.1818   | mg/L  | 0.00160 0.88%    |
| Fe 273.955† | 167789.9       | 131.2    | mg/L            | 0.82     | 262.3    | mg/L  | 1.64 0.63%       |
| K 766.490†  | 8303.0         | 4.515    | mg/L            | 0.0284   | 9.029    | mg/L  | 0.0569 0.63%     |
| Mg 279.077† | 51338.1        | 40.79    | mg/L            | 0.177    | 81.58    | mg/L  | 0.354 0.43%      |
| Mn 257.610† | 101664.9       | 2.156    | mg/L            | 0.0120   | 4.312    | mg/L  | 0.0241 0.56%     |
| Mo 202.031† | 58.6           | 0.00285  | mg/L            | 0.000379 | 0.00570  | mg/L  | 0.000758 13.29%  |
| Na 589.592† | 25486.9        | 2.030    | mg/L            | 0.0179   | 4.060    | mg/L  | 0.0358 0.88%     |
| Na 330.237† | 41.6           | 3.882    | mg/L            | 0.1575   | 7.764    | mg/L  | 0.3150 4.06%     |
| Ni 231.604† | 1182.5         | 0.3246   | mg/L            | 0.00222  | 0.6492   | mg/L  | 0.00444 0.68%    |
| Pb 220.353† | 68.2           | 0.02055  | mg/L            | 0.000886 | 0.04110  | mg/L  | 0.001772 4.31%   |
| Sb 206.836† | -7.2           | 0.00654  | mg/L            | 0.001391 | 0.01308  | mg/L  | 0.002782 21.26%  |
| Se 196.026† | 36.6           | 0.01980  | mg/L            | 0.001225 | 0.03961  | mg/L  | 0.002449 6.18%   |
| Si 288.158† | 11773.0        | 7.108    | mg/L            | 0.0402   | 14.22    | mg/L  | 0.080 0.57%      |
| Sn 189.927† | -83.1          | -0.00231 | mg/L            | 0.000368 | -0.00461 | mg/L  | 0.000736 15.96%  |
| Sr 421.552† | 234779.7       | 0.2713   | mg/L            | 0.00131  | 0.5427   | mg/L  | 0.00262 0.48%    |
| Ti 334.903† | 226279.5       | 7.251    | mg/L            | 0.0389   | 14.50    | mg/L  | 0.078 0.54%      |
| Tl 190.801† | -21.1          | 0.00417  | mg/L            | 0.006643 | 0.00834  | mg/L  | 0.013285 159.20% |
| V 292.402†  | 53044.2        | 0.3322   | mg/L            | 0.00206  | 0.6643   | mg/L  | 0.00413 0.62%    |
| Zn 206.200† | 899.3          | 0.2252   | mg/L            | 0.00142  | 0.4505   | mg/L  | 0.00284 0.63%    |

SS71 : 01703

Sequence No.: 48  
Sample ID: SS71 O SWC

Autosampler Location: 338  
Date Collected: 4/27/2011 12:07:15 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 O SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 O SWC

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | Std.Dev. | RSD    |
|-------------|----------------|----------|-----------------------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    |                       |          | Conc.    | Units |          |        |
| ScA 357.253 | 2499651.8      | 112.0    | %                     | 0.47     |          |       |          | 0.42%  |
| ScR 361.383 | 453000.8       | 113.8    | %                     | 0.65     |          |       |          | 0.57%  |
| Ag 328.068† | 129.3          | 0.00038  | mg/L                  | 0.000193 | 0.00077  | mg/L  | 0.000387 | 50.53% |
| Al 308.215† | 149399.0       | 107.0    | mg/L                  | 0.04     | 214.1    | mg/L  | 0.09     | 0.04%  |
| As 188.979† | -17.5          | 0.04678  | mg/L                  | 0.002423 | 0.09357  | mg/L  | 0.004847 | 5.18%  |
| B 249.677†  | 47.4           | 0.00836  | mg/L                  | 0.001751 | 0.01673  | mg/L  | 0.003502 | 20.94% |
| Ba 233.527† | 3228.7         | 0.4393   | mg/L                  | 0.00405  | 0.8785   | mg/L  | 0.00810  | 0.92%  |
| Be 313.042† | 1452.7         | 0.00144  | mg/L                  | 0.000022 | 0.00289  | mg/L  | 0.000043 | 1.50%  |
| Ca 317.933† | 523077.4       | 45.00    | mg/L                  | 0.207    | 89.99    | mg/L  | 0.414    | 0.46%  |
| Cd 228.802† | 28.3           | 0.00126  | mg/L                  | 0.000067 | 0.00253  | mg/L  | 0.000133 | 5.28%  |
| Co 228.616† | 2322.7         | 0.06082  | mg/L                  | 0.000595 | 0.1216   | mg/L  | 0.00119  | 0.98%  |
| Cr 267.716† | 2213.2         | 0.2802   | mg/L                  | 0.00209  | 0.5603   | mg/L  | 0.00419  | 0.75%  |
| Cu 324.752† | 23181.3        | 0.1049   | mg/L                  | 0.00019  | 0.2099   | mg/L  | 0.00039  | 0.18%  |
| Fe 273.955† | 189926.9       | 148.5    | mg/L                  | 0.32     | 297.0    | mg/L  | 0.63     | 0.21%  |
| K 766.490†  | 10048.7        | 5.464    | mg/L                  | 0.0366   | 10.93    | mg/L  | 0.073    | 0.67%  |
| Mg 279.077† | 58326.2        | 46.34    | mg/L                  | 0.172    | 92.69    | mg/L  | 0.345    | 0.37%  |
| Mn 257.610† | 106718.6       | 2.263    | mg/L                  | 0.0110   | 4.527    | mg/L  | 0.0220   | 0.49%  |
| Mo 202.031† | 64.4           | 0.00318  | mg/L                  | 0.000087 | 0.00637  | mg/L  | 0.000173 | 2.72%  |
| Na 589.592† | 27226.5        | 2.169    | mg/L                  | 0.0046   | 4.337    | mg/L  | 0.0092   | 0.21%  |
| Na 330.237† | 44.5           | 4.155    | mg/L                  | 0.1034   | 8.309    | mg/L  | 0.2068   | 2.49%  |
| Ni 231.604† | 1239.8         | 0.3403   | mg/L                  | 0.00229  | 0.6806   | mg/L  | 0.00459  | 0.67%  |
| Pb 220.353† | 77.4           | 0.02191  | mg/L                  | 0.000802 | 0.04382  | mg/L  | 0.001604 | 3.66%  |
| Sb 206.836† | -8.8           | 0.00671  | mg/L                  | 0.003194 | 0.01343  | mg/L  | 0.006387 | 47.58% |
| Se 196.026† | 39.2           | 0.02110  | mg/L                  | 0.003052 | 0.04220  | mg/L  | 0.006103 | 14.46% |
| Si 288.158† | 8302.1         | 5.015    | mg/L                  | 0.0359   | 10.03    | mg/L  | 0.072    | 0.72%  |
| Sn 189.927† | -85.0          | -0.00200 | mg/L                  | 0.000620 | -0.00400 | mg/L  | 0.001240 | 30.99% |
| Sr 421.552† | 254139.8       | 0.2937   | mg/L                  | 0.00075  | 0.5874   | mg/L  | 0.00150  | 0.26%  |
| Ti 334.903† | 242348.8       | 7.766    | mg/L                  | 0.0238   | 15.53    | mg/L  | 0.048    | 0.31%  |
| Tl 190.801† | -37.0          | -0.00316 | mg/L                  | 0.002274 | -0.00633 | mg/L  | 0.004547 | 71.87% |
| V 292.402†  | 60119.3        | 0.3766   | mg/L                  | 0.00160  | 0.7533   | mg/L  | 0.00320  | 0.43%  |
| Zn 206.200† | 990.6          | 0.2481   | mg/L                  | 0.00242  | 0.4962   | mg/L  | 0.00483  | 0.97%  |

Sequence No.: 49  
Sample ID: SS71 P SWC

Autosampler Location: 339  
Date Collected: 4/27/2011 12:11:13 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 P SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 P SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD    |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |        |
| ScA 357.253 | 2504049.7      | 112.2    | %               | 0.73     |          |       |          | 0.65%  |
| ScR 361.383 | 455222.3       | 114.4    | %               | 0.67     |          |       |          | 0.59%  |
| Ag 328.068† | 126.8          | 0.00033  | mg/L            | 0.000205 | 0.00065  | mg/L  | 0.000410 | 63.10% |
| Al 308.215† | 130997.4       | 93.85    | mg/L            | 0.425    | 187.7    | mg/L  | 0.85     | 0.45%  |
| As 188.979† | 2.3            | 0.04760  | mg/L            | 0.000860 | 0.09521  | mg/L  | 0.001719 | 1.81%  |
| B 249.677†  | 54.4           | 0.00963  | mg/L            | 0.000357 | 0.01926  | mg/L  | 0.000714 | 3.71%  |
| Ba 233.527† | 2814.0         | 0.3822   | mg/L            | 0.00453  | 0.7644   | mg/L  | 0.00906  | 1.19%  |
| Be 313.042† | 1349.5         | 0.00136  | mg/L            | 0.000034 | 0.00271  | mg/L  | 0.000068 | 2.51%  |
| Ca 317.933† | 496081.9       | 42.67    | mg/L            | 0.111    | 85.35    | mg/L  | 0.222    | 0.26%  |
| Cd 228.802† | 26.7           | 0.00117  | mg/L            | 0.000099 | 0.00235  | mg/L  | 0.000199 | 8.46%  |
| Co 228.616† | 2298.5         | 0.06270  | mg/L            | 0.000630 | 0.1254   | mg/L  | 0.00126  | 1.01%  |
| Cr 267.716† | 2086.9         | 0.2636   | mg/L            | 0.00262  | 0.5272   | mg/L  | 0.00524  | 0.99%  |
| Cu 324.752† | 23149.3        | 0.1048   | mg/L            | 0.00071  | 0.2097   | mg/L  | 0.00142  | 0.68%  |
| Fe 273.955† | 178685.4       | 139.7    | mg/L            | 0.88     | 279.4    | mg/L  | 1.77     | 0.63%  |
| K 766.490†  | 10762.0        | 5.852    | mg/L            | 0.0214   | 11.70    | mg/L  | 0.043    | 0.37%  |
| Mg 279.077† | 65022.9        | 51.68    | mg/L            | 0.185    | 103.4    | mg/L  | 0.37     | 0.36%  |
| Mn 257.610† | 115146.9       | 2.442    | mg/L            | 0.0138   | 4.884    | mg/L  | 0.0275   | 0.56%  |
| Mo 202.031† | 62.6           | 0.00312  | mg/L            | 0.000453 | 0.00623  | mg/L  | 0.000906 | 14.54% |
| Na 589.592† | 30326.7        | 2.416    | mg/L            | 0.0112   | 4.831    | mg/L  | 0.0223   | 0.46%  |
| Na 330.237† | 65.1           | 4.335    | mg/L            | 0.2518   | 8.671    | mg/L  | 0.5037   | 5.81%  |
| Ni 231.604† | 1335.9         | 0.3667   | mg/L            | 0.00508  | 0.7334   | mg/L  | 0.01016  | 1.38%  |
| Pb 220.353† | 81.5           | 0.02031  | mg/L            | 0.000413 | 0.04062  | mg/L  | 0.000826 | 2.03%  |
| Sb 206.836† | -5.9           | 0.00542  | mg/L            | 0.000528 | 0.01084  | mg/L  | 0.001055 | 9.74%  |
| Se 196.026† | 41.7           | 0.02310  | mg/L            | 0.005068 | 0.04620  | mg/L  | 0.010136 | 21.94% |
| Si 288.158† | 7896.7         | 4.771    | mg/L            | 0.0513   | 9.542    | mg/L  | 0.1025   | 1.07%  |
| Sn 189.927† | -75.1          | -0.00126 | mg/L            | 0.000853 | -0.00251 | mg/L  | 0.001705 | 67.84% |
| Sr 421.552† | 231926.1       | 0.2680   | mg/L            | 0.00095  | 0.5361   | mg/L  | 0.00190  | 0.36%  |
| Ti 334.903† | 191449.3       | 6.134    | mg/L            | 0.0255   | 12.27    | mg/L  | 0.051    | 0.42%  |
| Tl 190.801† | -19.6          | 0.00620  | mg/L            | 0.003410 | 0.01240  | mg/L  | 0.006819 | 55.01% |
| V 292.402†  | 51729.4        | 0.3236   | mg/L            | 0.00180  | 0.6472   | mg/L  | 0.00360  | 0.56%  |
| Zn 206.200† | 1047.2         | 0.2623   | mg/L            | 0.00214  | 0.5246   | mg/L  | 0.00428  | 0.82%  |

Sequence No.: 50  
Sample ID: SS71 Q SWC

Autosampler Location: 340  
Date Collected: 4/27/2011 12:15:11 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 Q SWC

Analyte Back Pressure Flow  
All 209.0 kPa 0.75 L/min

Mean Data: SS71 Q SWC

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD    |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|--------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |        |
| ScA 357.253 | 2492936.0      | 111.7    | %               | 0.07     |          |       |          | 0.07%  |
| ScR 361.383 | 450310.0       | 113.2    | %               | 2.38     |          |       |          | 2.10%  |
| Ag 328.068† | 138.1          | 0.00039  | mg/L            | 0.000215 | 0.00078  | mg/L  | 0.000431 | 55.20% |
| Al 308.215† | 132248.9       | 94.75    | mg/L            | 0.219    | 189.5    | mg/L  | 0.44     | 0.23%  |
| As 188.979† | -1.1           | 0.04802  | mg/L            | 0.002302 | 0.09604  | mg/L  | 0.004604 | 4.79%  |
| B 249.677†  | 55.9           | 0.00990  | mg/L            | 0.000739 | 0.01980  | mg/L  | 0.001477 | 7.46%  |
| Ba 233.527† | 2681.2         | 0.3635   | mg/L            | 0.00314  | 0.7271   | mg/L  | 0.00629  | 0.86%  |
| Be 313.042† | 1388.0         | 0.00140  | mg/L            | 0.000018 | 0.00279  | mg/L  | 0.000035 | 1.26%  |
| Ca 317.933† | 507559.8       | 43.66    | mg/L            | 0.115    | 87.32    | mg/L  | 0.231    | 0.26%  |
| Cd 228.802† | 24.9           | 0.00112  | mg/L            | 0.000105 | 0.00223  | mg/L  | 0.000210 | 9.42%  |
| Co 228.616† | 2361.4         | 0.06412  | mg/L            | 0.000787 | 0.1282   | mg/L  | 0.00157  | 1.23%  |
| Cr 267.716† | 2409.4         | 0.3041   | mg/L            | 0.00218  | 0.6083   | mg/L  | 0.00437  | 0.72%  |
| Cu 324.752† | 24035.7        | 0.1087   | mg/L            | 0.00112  | 0.2173   | mg/L  | 0.00223  | 1.03%  |
| Fe 273.955† | 181869.9       | 142.2    | mg/L            | 0.12     | 284.4    | mg/L  | 0.24     | 0.08%  |
| K 766.490†  | 11507.9        | 6.257    | mg/L            | 0.0328   | 12.51    | mg/L  | 0.066    | 0.52%  |
| Mg 279.077† | 64702.0        | 51.42    | mg/L            | 0.035    | 102.8    | mg/L  | 0.07     | 0.07%  |
| Mn 257.610† | 114519.8       | 2.429    | mg/L            | 0.0056   | 4.857    | mg/L  | 0.0112   | 0.23%  |
| Mo 202.031† | 69.3           | 0.00351  | mg/L            | 0.000347 | 0.00702  | mg/L  | 0.000694 | 9.88%  |
| Na 589.592† | 33478.2        | 2.667    | mg/L            | 0.0029   | 5.333    | mg/L  | 0.0058   | 0.11%  |
| Na 330.237† | 68.3           | 4.568    | mg/L            | 0.1027   | 9.135    | mg/L  | 0.2054   | 2.25%  |
| Ni 231.604† | 1339.8         | 0.3678   | mg/L            | 0.00132  | 0.7356   | mg/L  | 0.00264  | 0.36%  |
| Pb 220.353† | 66.9           | 0.01865  | mg/L            | 0.001310 | 0.03731  | mg/L  | 0.002620 | 7.02%  |
| Sb 206.836† | -4.2           | 0.00622  | mg/L            | 0.000883 | 0.01244  | mg/L  | 0.001765 | 14.19% |
| Se 196.026† | 42.0           | 0.02320  | mg/L            | 0.002283 | 0.04639  | mg/L  | 0.004566 | 9.84%  |
| Si 288.158† | 7432.1         | 4.491    | mg/L            | 0.0332   | 8.981    | mg/L  | 0.0664   | 0.74%  |
| Sn 189.927† | -79.5          | -0.00173 | mg/L            | 0.000836 | -0.00345 | mg/L  | 0.001673 | 48.47% |
| Sr 421.552† | 218087.6       | 0.2521   | mg/L            | 0.00003  | 0.5041   | mg/L  | 0.00006  | 0.01%  |
| Ti 334.903† | 202596.9       | 6.491    | mg/L            | 0.0080   | 12.98    | mg/L  | 0.016    | 0.12%  |
| Tl 190.801† | -22.6          | 0.00473  | mg/L            | 0.002960 | 0.00946  | mg/L  | 0.005919 | 62.59% |
| V 292.402†  | 53004.1        | 0.3317   | mg/L            | 0.00400  | 0.6634   | mg/L  | 0.00800  | 1.21%  |
| Zn 206.200† | 1109.1         | 0.2778   | mg/L            | 0.00291  | 0.5556   | mg/L  | 0.00581  | 1.05%  |

Sequence No.: 51  
Sample ID: SS71 R SWC

Autosampler Location: 341  
Date Collected: 4/27/2011 12:19:10 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 R SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 R SWC

| Analyte     | Mean Corrected Intensity | Calib. Conc. Units | Std.Dev. | Sample Conc. Units | Std.Dev. | RSD     |
|-------------|--------------------------|--------------------|----------|--------------------|----------|---------|
| ScA 357.253 | 2497015.3                | 111.9 %            | 1.03     |                    |          | 0.92%   |
| ScR 361.383 | 453150.7                 | 113.9 %            | 0.21     |                    |          | 0.19%   |
| Ag 328.068† | 124.8                    | 0.00027 mg/L       | 0.000272 | 0.00055 mg/L       | 0.000545 | 99.62%  |
| Al 308.215† | 167242.6                 | 119.8 mg/L         | 0.74     | 239.6 mg/L         | 1.48     | 0.62%   |
| As 188.979† | -3.6                     | 0.05950 mg/L       | 0.001412 | 0.1190 mg/L        | 0.00282  | 2.37%   |
| B 249.677†  | 61.9                     | 0.01095 mg/L       | 0.001535 | 0.02190 mg/L       | 0.003069 | 14.01%  |
| Ba 233.527† | 3590.7                   | 0.4886 mg/L        | 0.00350  | 0.9773 mg/L        | 0.00701  | 0.72%   |
| Be 313.042† | 1741.7                   | 0.00175 mg/L       | 0.000025 | 0.00350 mg/L       | 0.000051 | 1.46%   |
| Ca 317.933† | 551913.4                 | 47.48 mg/L         | 0.353    | 94.95 mg/L         | 0.705    | 0.74%   |
| Cd 228.802† | 38.2                     | 0.00160 mg/L       | 0.000121 | 0.00319 mg/L       | 0.000242 | 7.58%   |
| Co 228.616† | 2683.8                   | 0.07161 mg/L       | 0.000548 | 0.1432 mg/L        | 0.00110  | 0.77%   |
| Cr 267.716† | 2484.8                   | 0.3143 mg/L        | 0.00169  | 0.6287 mg/L        | 0.00337  | 0.54%   |
| Cu 324.752† | 32707.7                  | 0.1466 mg/L        | 0.00169  | 0.2933 mg/L        | 0.00338  | 1.15%   |
| Fe 273.955† | 208669.7                 | 163.1 mg/L         | 1.24     | 326.3 mg/L         | 2.49     | 0.76%   |
| K 766.490†  | 12687.7                  | 6.899 mg/L         | 0.0094   | 13.80 mg/L         | 0.019    | 0.14%   |
| Mg 279.077† | 66985.7                  | 53.23 mg/L         | 0.285    | 106.5 mg/L         | 0.57     | 0.54%   |
| Mn 257.610† | 132013.0                 | 2.800 mg/L         | 0.0151   | 5.599 mg/L         | 0.0303   | 0.54%   |
| Mo 202.031† | 63.9                     | 0.00310 mg/L       | 0.000358 | 0.00621 mg/L       | 0.000716 | 11.53%  |
| Na 589.592† | 31844.8                  | 2.537 mg/L         | 0.0139   | 5.073 mg/L         | 0.0278   | 0.55%   |
| Na 330.237† | 54.8                     | 4.631 mg/L         | 0.1467   | 9.263 mg/L         | 0.2934   | 3.17%   |
| Ni 231.604† | 1330.1                   | 0.3651 mg/L        | 0.00301  | 0.7302 mg/L        | 0.00602  | 0.82%   |
| Pb 220.353† | 590.4                    | 0.08531 mg/L       | 0.001712 | 0.1706 mg/L        | 0.00342  | 2.01%   |
| Sb 206.836† | -6.5                     | 0.00805 mg/L       | 0.002633 | 0.01611 mg/L       | 0.005266 | 32.69%  |
| Se 196.026† | 45.0                     | 0.02485 mg/L       | 0.004882 | 0.04971 mg/L       | 0.009765 | 19.64%  |
| Si 288.158† | 11804.2                  | 7.129 mg/L         | 0.0336   | 14.26 mg/L         | 0.067    | 0.47%   |
| Sn 189.927† | -78.4                    | 0.00007 mg/L       | 0.001567 | 0.00014 mg/L       | 0.003133 | >999.9% |
| Sr 421.552† | 241289.1                 | 0.2789 mg/L        | 0.00133  | 0.5577 mg/L        | 0.00266  | 0.48%   |
| Ti 334.903† | 254432.7                 | 8.153 mg/L         | 0.0474   | 16.31 mg/L         | 0.095    | 0.58%   |
| Tl 190.801† | -25.4                    | 0.00566 mg/L       | 0.007411 | 0.01132 mg/L       | 0.014822 | 130.92% |
| V 292.402†  | 66957.3                  | 0.4200 mg/L        | 0.00594  | 0.8400 mg/L        | 0.01187  | 1.41%   |
| Zn 206.200† | 1347.7                   | 0.3376 mg/L        | 0.00259  | 0.6751 mg/L        | 0.00519  | 0.77%   |

Sequence No.: 52  
Sample ID: SS71 S SWC

Autosampler Location: 342  
Date Collected: 4/27/2011 12:23:08 PM  
Data Type: Original

Dilution: 2X

Nebulizer Parameters: SS71 S SWC

Analyte Back Pressure Flow  
All 208.0 kPa 0.75 L/min

Mean Data: SS71 S SWC

| Analyte     | Mean Corrected |         | Calib.<br>Conc. Units | Std.Dev. | Sample  |       | Std.Dev. | RSD     |
|-------------|----------------|---------|-----------------------|----------|---------|-------|----------|---------|
|             | Intensity      |         |                       |          | Conc.   | Units |          |         |
| ScA 357.253 | 2518493.3      |         | 112.9                 | %        | 0.29    |       |          | 0.26%   |
| ScR 361.383 | 460112.9       |         | 115.6                 | %        | 0.91    |       |          | 0.79%   |
| Ag 328.068† | 167.8          | 0.00052 | mg/L                  | 0.000165 | 0.00104 | mg/L  | 0.000331 | 31.77%  |
| Al 308.215† | 173043.1       | 124.0   | mg/L                  | 0.52     | 248.0   | mg/L  | 1.05     | 0.42%   |
| As 188.979† | 9.9            | 0.07028 | mg/L                  | 0.003035 | 0.1406  | mg/L  | 0.00607  | 4.32%   |
| B 249.677†  | 66.5           | 0.01178 | mg/L                  | 0.001173 | 0.02357 | mg/L  | 0.002346 | 9.95%   |
| Ba 233.527† | 3499.5         | 0.4765  | mg/L                  | 0.00552  | 0.9530  | mg/L  | 0.01104  | 1.16%   |
| Be 313.042† | 1725.5         | 0.00173 | mg/L                  | 0.000049 | 0.00346 | mg/L  | 0.000097 | 2.81%   |
| Ca 317.933† | 558417.3       | 48.04   | mg/L                  | 0.095    | 96.07   | mg/L  | 0.189    | 0.20%   |
| Cd 228.802† | 49.9           | 0.00197 | mg/L                  | 0.000071 | 0.00393 | mg/L  | 0.000143 | 3.63%   |
| Co 228.616† | 2642.4         | 0.07003 | mg/L                  | 0.000513 | 0.1401  | mg/L  | 0.00103  | 0.73%   |
| Cr 267.716† | 2546.9         | 0.3223  | mg/L                  | 0.00238  | 0.6447  | mg/L  | 0.00476  | 0.74%   |
| Cu 324.752† | 37916.0        | 0.1687  | mg/L                  | 0.00078  | 0.3374  | mg/L  | 0.00156  | 0.46%   |
| Fe 273.955† | 198621.5       | 155.3   | mg/L                  | 0.56     | 310.5   | mg/L  | 1.12     | 0.36%   |
| K 766.490†  | 10247.8        | 5.572   | mg/L                  | 0.0448   | 11.14   | mg/L  | 0.090    | 0.80%   |
| Mg 279.077† | 56459.5        | 44.85   | mg/L                  | 0.117    | 89.71   | mg/L  | 0.234    | 0.26%   |
| Mn 257.610† | 127899.1       | 2.712   | mg/L                  | 0.0087   | 5.425   | mg/L  | 0.0174   | 0.32%   |
| Mo 202.031† | 69.1           | 0.00342 | mg/L                  | 0.000414 | 0.00683 | mg/L  | 0.000828 | 12.12%  |
| Na 589.592† | 38405.2        | 3.059   | mg/L                  | 0.0130   | 6.118   | mg/L  | 0.0259   | 0.42%   |
| Na 330.237† | 61.2           | 4.916   | mg/L                  | 0.2060   | 9.831   | mg/L  | 0.4120   | 4.19%   |
| Ni 231.604† | 1235.0         | 0.3390  | mg/L                  | 0.00309  | 0.6780  | mg/L  | 0.00617  | 0.91%   |
| Pb 220.353† | 1034.4         | 0.1400  | mg/L                  | 0.00079  | 0.2800  | mg/L  | 0.00157  | 0.56%   |
| Sb 206.836† | -11.2          | 0.00634 | mg/L                  | 0.000949 | 0.01268 | mg/L  | 0.001898 | 14.97%  |
| Se 196.026† | 41.8           | 0.02293 | mg/L                  | 0.007033 | 0.04587 | mg/L  | 0.014067 | 30.67%  |
| Si 288.158† | 9853.1         | 5.951   | mg/L                  | 0.0665   | 11.90   | mg/L  | 0.133    | 1.12%   |
| Sn 189.927† | -78.6          | 0.00025 | mg/L                  | 0.001287 | 0.00049 | mg/L  | 0.002574 | 520.12% |
| Sr 421.552† | 225581.8       | 0.2607  | mg/L                  | 0.00087  | 0.5214  | mg/L  | 0.00175  | 0.34%   |
| Ti 334.903† | 259783.2       | 8.325   | mg/L                  | 0.0238   | 16.65   | mg/L  | 0.048    | 0.29%   |
| Tl 190.801† | -14.1          | 0.01144 | mg/L                  | 0.003066 | 0.02287 | mg/L  | 0.006132 | 26.81%  |
| V 292.402†  | 67310.1        | 0.4229  | mg/L                  | 0.00260  | 0.8457  | mg/L  | 0.00519  | 0.61%   |
| Zn 206.200† | 1353.4         | 0.3390  | mg/L                  | 0.00426  | 0.6780  | mg/L  | 0.00852  | 1.26%   |

Sequence No.: 53

Sample ID: SS83 MB2SPK TWC

Autosampler Location: 343

Date Collected: 4/27/2011 12:27:06 PM

Data Type: Original

Dilution: 1X

## Nebulizer Parameters: SS83 MB2SPK TWC

| Analyte | Back Pressure | Flow       |
|---------|---------------|------------|
| All     | 208.0 kPa     | 0.75 L/min |

## Mean Data: SS83 MB2SPK TWC

| Analyte     | Mean Corrected |          | Calib.<br>Conc. Units | Std.Dev. | Sample   |       | RSD              |
|-------------|----------------|----------|-----------------------|----------|----------|-------|------------------|
|             | Intensity      | Conc.    |                       |          | Conc.    | Units |                  |
| ScA 357.253 | 2479986.6      | 111.1    | %                     | 0.54     |          |       | 0.48%            |
| ScR 361.383 | 448726.1       | 112.8    | %                     | 1.27     |          |       | 1.13%            |
| Ag 328.068† | 98720.0        | 0.5322   | mg/L                  | 0.00435  | 0.5322   | mg/L  | 0.00435 0.82%    |
| Al 308.215† | 2914.7         | 2.079    | mg/L                  | 0.0585   | 2.079    | mg/L  | 0.0585 2.81%     |
| As 188.979† | 2919.2         | 2.054    | mg/L                  | 0.0149   | 2.054    | mg/L  | 0.0149 0.73%     |
| B 249.677†  | 6.2            | -0.00007 | mg/L                  | 0.001341 | -0.00007 | mg/L  | 0.001341 >999.9% |
| Ba 233.527† | 14344.6        | 1.995    | mg/L                  | 0.0265   | 1.995    | mg/L  | 0.0265 1.33%     |
| Be 313.042† | 443088.3       | 0.5047   | mg/L                  | 0.00479  | 0.5047   | mg/L  | 0.00479 0.95%    |
| Ca 317.933† | 113469.3       | 9.761    | mg/L                  | 0.0786   | 9.761    | mg/L  | 0.0786 0.81%     |
| Cd 228.802† | 14154.8        | 0.5016   | mg/L                  | 0.00591  | 0.5016   | mg/L  | 0.00591 1.18%    |
| Co 228.616† | 15642.0        | 0.4947   | mg/L                  | 0.00376  | 0.4947   | mg/L  | 0.00376 0.76%    |
| Cr 267.716† | 3959.9         | 0.4954   | mg/L                  | 0.00633  | 0.4954   | mg/L  | 0.00633 1.28%    |
| Cu 324.752† | 115728.6       | 0.4996   | mg/L                  | 0.00323  | 0.4996   | mg/L  | 0.00323 0.65%    |
| Fe 273.955† | 2678.4         | 2.091    | mg/L                  | 0.0805   | 2.091    | mg/L  | 0.0805 3.85%     |
| K 766.490†  | 18592.4        | 10.11    | mg/L                  | 0.096    | 10.11    | mg/L  | 0.096 0.95%      |
| Mg 279.077† | 12825.6        | 10.21    | mg/L                  | 0.111    | 10.21    | mg/L  | 0.111 1.09%      |
| Mn 257.610† | 23129.7        | 0.4909   | mg/L                  | 0.00551  | 0.4909   | mg/L  | 0.00551 1.12%    |
| Mo 202.031† | 22.2           | 0.00120  | mg/L                  | 0.000126 | 0.00120  | mg/L  | 0.000126 10.47%  |
| Na 589.592† | 126774.8       | 10.10    | mg/L                  | 0.093    | 10.10    | mg/L  | 0.093 0.92%      |
| Na 330.237† | 328.1          | 11.62    | mg/L                  | 0.119    | 11.62    | mg/L  | 0.119 1.03%      |
| Ni 231.604† | 1839.1         | 0.5048   | mg/L                  | 0.00656  | 0.5048   | mg/L  | 0.00656 1.30%    |
| Pb 220.353† | 16617.8        | 2.001    | mg/L                  | 0.0222   | 2.001    | mg/L  | 0.0222 1.11%     |
| Sb 206.836† | 9.9            | 0.00080  | mg/L                  | 0.000861 | 0.00080  | mg/L  | 0.000861 107.59% |
| Se 196.026† | 2592.8         | 2.109    | mg/L                  | 0.0112   | 2.109    | mg/L  | 0.0112 0.53%     |
| Si 288.158† | 0.8            | 0.00362  | mg/L                  | 0.004551 | 0.00362  | mg/L  | 0.004551 125.85% |
| Sn 189.927† | -23.8          | -0.00208 | mg/L                  | 0.000898 | -0.00208 | mg/L  | 0.000898 43.10%  |
| Sr 421.552† | 442319.6       | 0.5112   | mg/L                  | 0.00466  | 0.5112   | mg/L  | 0.00466 0.91%    |
| Ti 334.903† | 129.7          | 0.00239  | mg/L                  | 0.004932 | 0.00239  | mg/L  | 0.004932 206.46% |
| Tl 190.801† | 3374.2         | 2.036    | mg/L                  | 0.0211   | 2.036    | mg/L  | 0.0211 1.04%     |
| V 292.402†  | 76665.4        | 0.5021   | mg/L                  | 0.00404  | 0.5021   | mg/L  | 0.00404 0.80%    |
| Zn 206.200† | 1988.1         | 0.4981   | mg/L                  | 0.00615  | 0.4981   | mg/L  | 0.00615 1.23%    |



Sequence No.: 54  
 Sample ID: CV 5

Autosampler Location: 7  
 Date Collected: 4/27/2011 12:31:04 PM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow  
 All 208.0 kPa 0.75 L/min

Mean Data: CV

| Analyte     | Mean Corrected |        | Calib. |          | Sample |       | RSD   |
|-------------|----------------|--------|--------|----------|--------|-------|-------|
|             | Intensity      | Conc.  | Units  | Std.Dev. | Conc.  | Units |       |
| ScA 357.253 | 2443017.0      | 109.5  | %      | 0.57     |        |       | 0.52% |
| ScR 361.383 | 437187.1       | 109.9  | %      | 0.93     |        |       | 0.84% |
| Ag 328.068† | 188324.5       | 1.015  | mg/L   | 0.0063   | 1.015  | mg/L  | 0.62% |
| Al 308.215† | 2837.5         | 2.000  | mg/L   | 0.0299   | 2.000  | mg/L  | 1.49% |
| As 188.979† | 2824.0         | 1.994  | mg/L   | 0.0228   | 1.994  | mg/L  | 1.14% |
| B 249.677†  | 5602.8         | 1.008  | mg/L   | 0.0051   | 1.008  | mg/L  | 0.51% |
| Ba 233.527† | 7092.5         | 0.9860 | mg/L   | 0.00456  | 0.9860 | mg/L  | 0.46% |
| Be 313.042† | 888314.4       | 1.012  | mg/L   | 0.0017   | 1.012  | mg/L  | 0.17% |
| Ca 317.933† | 23657.4        | 2.035  | mg/L   | 0.0077   | 2.035  | mg/L  | 0.38% |
| Cd 228.802† | 28290.8        | 1.010  | mg/L   | 0.0090   | 1.010  | mg/L  | 0.89% |
| Co 228.616† | 30462.2        | 0.9628 | mg/L   | 0.00910  | 0.9628 | mg/L  | 0.95% |
| Cr 267.716† | 7946.1         | 0.9954 | mg/L   | 0.00531  | 0.9954 | mg/L  | 0.53% |
| Cu 324.752† | 223479.0       | 0.9643 | mg/L   | 0.00824  | 0.9643 | mg/L  | 0.85% |
| Fe 273.955† | 2615.4         | 2.040  | mg/L   | 0.0089   | 2.040  | mg/L  | 0.43% |
| K 766.490†  | 36679.3        | 19.94  | mg/L   | 0.077    | 19.94  | mg/L  | 0.39% |
| Mg 279.077† | 2485.2         | 1.981  | mg/L   | 0.0129   | 1.981  | mg/L  | 0.65% |
| Mn 257.610† | 46351.2        | 0.9834 | mg/L   | 0.00601  | 0.9834 | mg/L  | 0.61% |
| Mo 202.031† | 15523.0        | 0.9684 | mg/L   | 0.01058  | 0.9684 | mg/L  | 1.09% |
| Na 589.592† | 636741.1       | 50.72  | mg/L   | 0.175    | 50.72  | mg/L  | 0.34% |
| Na 330.237† | 1442.6         | 51.73  | mg/L   | 0.250    | 51.73  | mg/L  | 0.48% |
| Ni 231.604† | 3757.8         | 1.033  | mg/L   | 0.0072   | 1.033  | mg/L  | 0.69% |
| Pb 220.353† | 16058.7        | 1.934  | mg/L   | 0.0215   | 1.934  | mg/L  | 1.11% |
| Sb 206.836† | 4948.8         | 1.988  | mg/L   | 0.0248   | 1.988  | mg/L  | 1.25% |
| Se 196.026† | 2470.1         | 2.011  | mg/L   | 0.0255   | 2.011  | mg/L  | 1.27% |
| Si 288.158† | 3376.3         | 2.043  | mg/L   | 0.0055   | 2.043  | mg/L  | 0.27% |
| Sn 189.927† | 4904.7         | 0.9637 | mg/L   | 0.01167  | 0.9637 | mg/L  | 1.21% |
| Sr 421.552† | 883300.0       | 1.021  | mg/L   | 0.0013   | 1.021  | mg/L  | 0.12% |
| Ti 334.903† | 29896.9        | 0.9573 | mg/L   | 0.00210  | 0.9573 | mg/L  | 0.22% |
| Tl 190.801† | 3263.6         | 1.971  | mg/L   | 0.0189   | 1.971  | mg/L  | 0.96% |
| V 292.402†  | 148481.2       | 0.9731 | mg/L   | 0.01544  | 0.9731 | mg/L  | 1.59% |
| Zn 206.200† | 4009.5         | 1.004  | mg/L   | 0.0049   | 1.004  | mg/L  | 0.48% |

Sequence No.: 55  
 Sample ID: CB

Autosampler Location: 1  
 Date Collected: 4/27/2011 12:34:19 PM  
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow  
 All 208.0 kPa 0.75 L/min

Mean Data: CB

| Analyte     | Mean Corrected |          | Calib.<br>Units | Std.Dev. | Sample   |       | Std.Dev. | RSD     |
|-------------|----------------|----------|-----------------|----------|----------|-------|----------|---------|
|             | Intensity      | Conc.    |                 |          | Conc.    | Units |          |         |
| ScA 357.253 | 2416662.8      | 108.3    | %               | 0.75     |          |       |          | 0.69%   |
| ScR 361.383 | 437810.2       | 110.0    | %               | 0.55     |          |       |          | 0.50%   |
| Ag 328.068† | 133.4          | 0.00072  | mg/L            | 0.000236 | 0.00072  | mg/L  | 0.000236 | 32.84%  |
| Al 308.215† | 30.1           | 0.02160  | mg/L            | 0.009149 | 0.02160  | mg/L  | 0.009149 | 42.35%  |
| As 188.979† | 2.1            | 0.00146  | mg/L            | 0.000901 | 0.00146  | mg/L  | 0.000901 | 61.89%  |
| B 249.677†  | 6.5            | 0.00117  | mg/L            | 0.000892 | 0.00117  | mg/L  | 0.000892 | 76.25%  |
| Ba 233.527† | -2.8           | -0.00039 | mg/L            | 0.000766 | -0.00039 | mg/L  | 0.000766 | 196.20% |
| Be 313.042† | 7.3            | 0.00001  | mg/L            | 0.000026 | 0.00001  | mg/L  | 0.000026 | 313.55% |
| Ca 317.933† | 78.9           | 0.00678  | mg/L            | 0.000923 | 0.00678  | mg/L  | 0.000923 | 13.61%  |
| Cd 228.802† | -3.6           | -0.00013 | mg/L            | 0.000179 | -0.00013 | mg/L  | 0.000179 | 135.52% |
| Co 228.616† | 16.7           | 0.00053  | mg/L            | 0.000101 | 0.00053  | mg/L  | 0.000101 | 19.08%  |
| Cr 267.716† | -2.3           | -0.00029 | mg/L            | 0.000989 | -0.00029 | mg/L  | 0.000989 | 343.32% |
| Cu 324.752† | -22.9          | -0.00010 | mg/L            | 0.000048 | -0.00010 | mg/L  | 0.000048 | 48.75%  |
| Fe 273.955† | 20.4           | 0.01592  | mg/L            | 0.009291 | 0.01592  | mg/L  | 0.009291 | 58.37%  |
| K 766.490†  | 85.4           | 0.04642  | mg/L            | 0.021587 | 0.04642  | mg/L  | 0.021587 | 46.51%  |
| Mg 279.077† | 25.8           | 0.02048  | mg/L            | 0.003789 | 0.02048  | mg/L  | 0.003789 | 18.50%  |
| Mn 257.610† | 9.2            | 0.00019  | mg/L            | 0.000232 | 0.00019  | mg/L  | 0.000232 | 119.33% |
| Mo 202.031† | -6.8           | -0.00043 | mg/L            | 0.000226 | -0.00043 | mg/L  | 0.000226 | 53.12%  |
| Na 589.592† | -294.4         | -0.02345 | mg/L            | 0.001939 | -0.02345 | mg/L  | 0.001939 | 8.27%   |
| Na 330.237† | 19.4           | 0.6960   | mg/L            | 0.23777  | 0.6960   | mg/L  | 0.23777  | 34.16%  |
| Ni 231.604† | 7.3            | 0.00200  | mg/L            | 0.000767 | 0.00200  | mg/L  | 0.000767 | 38.24%  |
| Pb 220.353† | 14.0           | 0.00169  | mg/L            | 0.000214 | 0.00169  | mg/L  | 0.000214 | 12.67%  |
| Sb 206.836† | 2.4            | 0.00099  | mg/L            | 0.001199 | 0.00099  | mg/L  | 0.001199 | 121.48% |
| Se 196.026† | 10.1           | 0.00820  | mg/L            | 0.004065 | 0.00820  | mg/L  | 0.004065 | 49.59%  |
| Si 288.158† | -3.0           | -0.00179 | mg/L            | 0.004139 | -0.00179 | mg/L  | 0.004139 | 231.77% |
| Sn 189.927† | 5.7            | 0.00113  | mg/L            | 0.000053 | 0.00113  | mg/L  | 0.000053 | 4.69%   |
| Sr 421.552† | 138.5          | 0.00016  | mg/L            | 0.000025 | 0.00016  | mg/L  | 0.000025 | 15.71%  |
| Ti 334.903† | -30.3          | -0.00097 | mg/L            | 0.000864 | -0.00097 | mg/L  | 0.000864 | 88.69%  |
| Tl 190.801† | 3.1            | 0.00189  | mg/L            | 0.001930 | 0.00189  | mg/L  | 0.001930 | 102.36% |
| V 292.402†  | 31.3           | 0.00020  | mg/L            | 0.000137 | 0.00020  | mg/L  | 0.000137 | 68.06%  |
| Zn 206.200† | 4.5            | 0.00114  | mg/L            | 0.000369 | 0.00114  | mg/L  | 0.000369 | 32.41%  |

**General Chemistry Raw Data  
Analyst Notes and Raw Data**

**ARI Job ID: SS71**

4-21-11

**TOC Solids Prep Log**  
 acid purging to remove IC and drying at 70°C for TOC analysis  
 General notes regarding prep method and samples (identify the acid used)

DATE: 4/20/2011  
 ANALYST: KET 20:20

make no entry to shaded cells, they are calculated

| Sample ID  |        | IC Test<br>+ / - | Gravimetric Data (grams) |         |             | %<br>Solids | Sample description & notes<br>(homogeneity and exclusions) |
|------------|--------|------------------|--------------------------|---------|-------------|-------------|--|
| ARI #      | Client |                  | Tare Wt.                 | Wet wt. | 70°C dry wt |             |  |
| Blank      |        |                  | 13.2582                  | 0.0000  | 13.2588     | 0.6 mg      |  |
| SS71 A6    |        | -                | 13.3188                  | 17.6678 | 17.1351     | 87.75%      |  |
| SS71 B6    |        | -                | 13.3250                  | 17.8663 | 17.5238     | 92.46%      |  |
| SS71 C6    |        | -                | 13.2869                  | 17.2921 | 17.0060     | 92.86%      |  |
| SS71 D6    |        | -                | 13.2982                  | 16.2257 | 15.5377     | 76.50%      |  |
| SS71 E6    |        | -                | 13.3875                  | 16.8624 | 16.5069     | 89.77%      |  |
| SS71 A6    |        | -                | 13.2753                  | 17.7099 | 17.0435     | 84.97%      |  |
| SS71 G6    |        | -                | 13.3232                  | 17.3952 | 16.7655     | 84.54%      |  |
| SS71 H6    |        | -                | 13.2209                  | 17.3296 | 17.0208     | 92.48%      |  |
| SS71 I6    |        | -                | 13.3199                  | 18.2236 | 17.7017     | 89.36%      |  |
| SS71 I6 DU |        | -                | 13.2235                  | 17.9431 | 17.4660     | 89.89%      | 0.60   |
| SS71 I6 TP |        | -                | 13.2648                  | 18.5672 | 17.9728     | 88.79%      | 0.64   |
| SS71 J6    |        | -                | 13.3590                  | 16.6061 | 16.2554     | 89.20%      |  |
| SS71 K6    |        | -                | 13.2896                  | 17.8524 | 17.5241     | 92.80%      |  |
| SS71 L6    |        | -                | 13.2881                  | 18.6760 | 18.2362     | 91.84%      |  |
| SS71 M6    |        | -                | 13.2480                  | 18.0208 | 17.6515     | 92.26%      |  |
| SS71 N6    |        | -                | 13.3467                  | 18.0120 | 17.7543     | 94.48%      |  |
| SS71 O6    |        | -                | 13.2615                  | 17.4451 | 17.2138     | 94.47%      |  |
| SS71 P6    |        | -                | 13.2195                  | 16.4124 | 16.3499     | 98.04%      |  |
| SS71 Q6    |        | -                | 13.3558                  | 17.9497 | 17.7676     | 96.04%      |  |
| SS71 R6    |        | -                | 13.2569                  | 17.6225 | 17.4068     | 95.06%      |  |
| SS71 S6    |        | -                | 13.3416                  | 18.1728 | 17.8576     | 93.48%      |  |



### TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC an alysis  
Add general notes regarding samples and preparation and identify the acid used

Analyst KBT

Date 4/20/11 20:20

| Sample Identification |           | IC Test | Gravimetric Data |         |         | % Solids | Sample description & notes |
|-----------------------|-----------|---------|------------------|---------|---------|----------|----------------------------|
| ARI #                 | Client ID |         | Tare             | Wet     | 70 °C   |          |                            |
| Blank                 |           |         | 13.2582          | Ø       | 13.2588 |          |                            |
| SS71 A6               |           | -       | 13.3188          | 17.6678 | 17.1351 |          | soil w/ roots              |
| B6                    |           | -       | 13.3250          | 17.8663 | 17.5238 |          | soil                       |
| C6                    |           | -       | 13.2869          | 17.2921 | 17.0060 |          | "                          |
| D6                    |           | -       | 13.2982          | 16.2257 | 15.5377 |          | soil w/ roots              |
| E6                    |           | -       | 13.3875          | 16.8624 | 16.5069 |          | soil                       |
| F6                    |           | -       | 13.2753          | 17.7099 | 17.0435 |          | "                          |
| G6                    |           | -       | 13.3232          | 17.3952 | 16.7655 |          | soil w/ roots              |
| H6                    |           | -       | 13.2209          | 17.3296 | 17.0208 |          | soil                       |
| I6                    |           | -       | 13.3199          | 18.2236 | 17.7017 |          |                            |
| I6 DU                 |           | -       | 13.2235          | 17.9431 | 17.4660 |          |                            |
| I6 TP                 |           | -       | 13.2648          | 18.5672 | 17.9728 |          |                            |
| J6                    |           | -       | 13.3590          | 16.6061 | 16.2554 |          | soil w/ roots              |
| K6                    |           | -       | 13.2896          | 17.8524 | 17.5241 |          | soil                       |
| L6                    |           | -       | 13.2881          | 18.6760 | 18.2362 |          | "                          |
| M6                    |           | -       | 13.2480          | 18.0208 | 17.6515 |          | soil w/ roots              |
| N6                    |           | -       | 13.3467          | 18.0120 | 17.7543 |          | soil w/ rocks              |
| O6                    |           | -       | 13.2615          | 17.4451 | 17.2138 |          | "                          |
| P6                    |           | -       | 13.2195          | 16.4124 | 16.3499 |          | soil w/ roots              |
| Q6                    |           | -       | 13.3558          | 17.9497 | 17.7676 |          |                            |
| R6                    |           | -       | 13.2569          | 17.6225 | 17.4068 |          |                            |
| S6                    |           | -       | 13.3416          | 18.1728 | 17.8576 |          | soil w/ rocks              |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |
|                       |           |         |                  |         |         |          |                            |

**TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET**

**SOLIDS** (dry at 104 (12-24 hr) then combust at 550 (30 min))

DATE: 4/20/2011

ANALYST: KET

Instrumentation: **Drying Ovens:** 1 **Muffle Furnace:** 62790918520

**Analytical Balance:** "FRANK"/1123230597

**Batch drying time**  
 record times as mm/dd/yy hh:mm  
 4/20/2011 20:00 date/time in oven  
 4/21/2011 12:30 date/time out  
 elapsed hrs = 16.5

**TS (%) calculated as:**  
 Final dry wt (g) = (Dry Wt - Tare Wt)  
 TS = (Final Dry Wt)/(grams Sample-Tare)

**TVS (mg/kg dry wt) calculated as:**  
 Final ash wt (g) = (min ash wt - tare wt)  
 TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] \*1,000,000  
 if ash wt > dry wt, "Chk for Err"  
 if dry wt-ash wt < 0.001 g, "< (1/dry wt)\*1,000,000"

| SAMPLE ID     | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) |   | dry wt (g) | TS (%) | ASH WT 550C (grams) |        | Ash Wt (g) | TVS (mg/kg) (%) |
|---------------|--------|----------------|-----------------|---------------------|---|------------|--------|---------------------|--------|------------|-----------------|
|               |        |                |                 | 1                   | 2 |            |        | 1                   | 2      |            |                 |
| Blank         |        | 0.0000         | 1.0887          | 1.0886              |   | 0.00       |        | 1.0536              | 1.0535 | OK         | -0.04           |
| SS71 A6       |        | 6.3756         | 1.0784          | 5.4949              |   | 4.42       | 83.4%  |                     |        |            |                 |
| SS71 B6       |        | 6.4076         | 1.0854          | 5.7714              |   | 4.69       | 88.0%  |                     |        |            |                 |
| SS71 C6       |        | 6.0144         | 1.0819          | 5.4428              |   | 4.36       | 88.4%  |                     |        |            |                 |
| SS71 D6       |        | 5.8656         | 1.0842          | 4.6194              |   | 3.56       | 74.0%  |                     |        |            |                 |
| SS71 E6       |        | 5.8738         | 1.0653          | 5.1580              |   | 4.09       | 85.1%  |                     |        |            |                 |
| SS71 F6 *     |        | 5.5884         | 1.0776          | 4.7875              |   | 3.71       | 82.2%  |                     |        |            |                 |
| SS71 G6 *     |        | 5.3869         | 1.0807          | 4.7064              |   | 3.63       | 84.2%  |                     |        |            |                 |
| SS71 H6 *     |        | 5.4056         | 1.0813          | 4.9337              |   | 3.85       | 89.1%  |                     |        |            |                 |
| SS71 I6 *     |        | 6.0489         | 1.0741          | 5.3407              |   | 4.27       | 85.8%  |                     |        |            |                 |
| SS71 J6 * dup |        | 6.8592         | 1.0862          | 6.0311              |   | 4.94       | 85.7%  |                     |        |            |                 |
| RPD = 0.13%   |        |                |                 |                     |   |            |        |                     |        |            | NA              |
| SS71 I6 * trp |        | 6.6914         | 1.0494          | 5.9086              |   | 4.86       | 86.1%  |                     |        |            | NA              |
| RSD = 0.29%   |        |                |                 |                     |   |            |        |                     |        |            | NA              |

| SAMPLE ID | DISH # | SAMPLE (grams) | TARE WT (grams) | DRY WT 104C (grams) |   | dry wt (g) | TS (%) | ASH WT 550C (grams) |   | Ash Wt (g) | TVS (mg/kg) (%) |
|-----------|--------|----------------|-----------------|---------------------|---|------------|--------|---------------------|---|------------|-----------------|
|           |        |                |                 | 1                   | 2 |            |        | 1                   | 2 |            |                 |
| SS71 J6 * |        | 5.4035         | 1.0867          | 4.7526              |   | 3.67       | 84.9%  |                     |   |            |                 |
| SS71 K6 * |        | 5.4695         | 1.0684          | 5.0075              |   | 3.94       | 89.5%  |                     |   |            |                 |
| SS71 L6 * |        | 5.9618         | 1.0739          | 5.3693              |   | 4.30       | 87.9%  |                     |   |            |                 |
| SS71 M6 * |        | 6.1682         | 1.0939          | 5.5655              |   | 4.47       | 88.1%  |                     |   |            |                 |
| SS71 N6 * |        | 6.1887         | 1.0802          | 5.7314              |   | 4.65       | 91.0%  |                     |   |            |                 |
| SS71 O6 * |        | 6.8400         | 1.0712          | 6.2696              |   | 5.20       | 90.1%  |                     |   |            |                 |
| SS71 P6 * |        | 5.2560         | 1.0759          | 4.9563              |   | 3.88       | 92.8%  |                     |   |            |                 |
| SS71 Q6 * |        | 6.3268         | 1.0717          | 5.9559              |   | 4.88       | 92.9%  |                     |   |            |                 |
| SS71 R6 * |        | 6.0193         | 1.0725          | 5.6039              |   | 4.53       | 91.6%  |                     |   |            |                 |
| SS71 S6 * |        | 6.0222         | 1.0705          | 5.5283              |   | 4.46       | 90.0%  |                     |   |            |                 |

FG down 4/18/11 17:35 9.9999 (FRANK) L&T



Analytical Resources, Incorporated  
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

FRANK

| Analyst: K&T   |        | Date: 4/20/11                   | Oven ID: 001     | Balance ID: 1123230597   |
|--|--------|---------------------------------|------------------|--------------------------|
| Time in Oven: 20:00  |        | Time Out of Oven: 4/21/11 12:30 |                  | Elapsed Time (> 12 Hrs): |
| Cal Weight ID  | CV-02  | CV-02                           | CV-02            | CV-02                    |
| Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min.<br>Record Weights to 4 places<br>TS (%) calculated as:<br>Final Dry Weight (g) = (Dry Weight - Tare Weight)<br>TS = (Final Dry Weight) / (Grams Sample - Tare Weight) |        |                                 |                  |                          |
| Date & Time: 4/20/11 17:19   | CV-02  | CV-02                           | CV-02            | CV-02                    |
| Cal Weight (10.0000): 10.0000 K&T  | CV-02  | CV-02                           | CV-02            | CV-02                    |
| Sample   | Sample | Tare                            | Dry Weight 104°C | Dry Weight 550°C         |
|  |        |                                 | 1                | 2                        |
|  |        |                                 | 3                | 3                        |
| BLANK  | Ø      | 1.0887                          | 1.0886           |                          |
| SS71   | 6.5756 | 1.0784                          | 5.4949           |                          |
| B6   | 6.4076 | 1.0854                          | 5.7714           |                          |
| C6   | 6.0144 | 1.0819                          | 5.4428           |                          |
| D6   | 5.8656 | 1.0642                          | 4.6194           |                          |
| E6   | 5.8738 | 1.0653                          | 5.1580           |                          |
| F6   | 5.5884 | 1.0776                          | 4.7875           |                          |
| G6   | 5.3869 | 1.0807                          | 4.7064           |                          |
| H6   | 5.4056 | 1.0813                          | 4.9337           |                          |
| I6   | 6.0489 | 1.0741                          | 5.3407           |                          |
| J6   | 6.8592 | 1.0862                          | 6.0311           |                          |
| K6   | 6.6914 | 1.0494                          | 5.9086           |                          |
| L6   | 5.4035 | 1.0867                          | 4.1526           |                          |
| M6   | 5.4695 | 1.0684                          | 5.0075           |                          |
| N6   | 5.9618 | 1.0739                          | 5.3693           |                          |
| O6   | 6.1682 | 1.0939                          | 5.655655         |                          |
| P6   | 6.1887 | 1.0802                          | 5.7314           |                          |
| Q6   | 6.8400 | 1.0712                          | 6.2696           |                          |
| R6   | 5.2560 | 1.0759                          | 4.9563           |                          |
| S6   | 6.3268 | 1.0717                          | 5.9559           |                          |
| T6   | 6.0193 | 1.0725                          | 5.6039           |                          |
| U6   | 6.0222 | 1.0705                          | 5.5283           |                          |

5571 01716

W  
4-28-11

**TOC, Solids Data Analysis**  
 Instrument: Apollo 2  
 Mode: NPOC Inlet: Boat  
 Spike Std = 2,500 ppm C  
 DATE: 2/27/2011  
 ANALYST: KE 10:02

**Calibration Data**  
 Cal Curve ID: 41911 BOAT CAL  
 Calibration Curve Standard: ARI # 00115 - 7  
 Conc: 5,000 ppm  
 Curve Date: 04/19/11  
 CalFact: 3.116E+05 intercept: -80028 r2: 0.99955  
 Curve Range (ppm) 200 to 2,500  
 Curve Range (µgC): 8 to 100 40 µL injections of designated standard

**Verification Standard**  
 Source: ERA# 0513 - 10 - 06  
 Conc: 5,000 ppm  
 dilution: 10 mL to 50  
 Conc: 1,000 ppm

**Standard Reference Material**  
 Source: NIST 8704 Conc: 33,510 ppm  
 Source: NIST 1941B Conc: 29,900 ppm

**Silica Blanks**

| Replicate determinations |      |      |      |  | Mean | RSD   | condition |
|--------------------------|------|------|------|--|------|-------|-----------|
| 37.4                     | 21.6 | 27.0 | 21.4 |  | 17.5 | 18.2% | OK        |

**Sample Data**  
 "C corr" (with dilution) = ("C obs" - (Mean silica Blank \* %Silica)) \* Dilution Factor

| Sample ID   | Dilution Data   |                |            |                 | Spike (µL Std) | Combustion Data |               |                | comments  |
|---|-----------------|----------------|------------|-----------------|----------------|-----------------|---------------|----------------|-----------|
|   | Sample wt. (mg) | Final wt. (mg) | Silica (%) | Dilution Factor |                | Burn wt. (mg)   | C obs (ppm C) | C corr (ppm C) |           |
| ICV   |                 |                | -          | 1.00            |                | 40.0            | 1656          | 1,656          | 165.60%   |
| ICV   |                 |                |            | 1.00            |                | 40.0            | 970           | 970            | 97.00%    |
| Blank   |                 |                |            | 1.00            |                | 40.0            | 9.95          | 10             | Blank OK  |
| NIST 1941B  |                 |                |            | 1.00            |                | 2.9             | 25407         | 25,407         | 84.97%    |
| Silica Blanks 1                                     |                 |                |            | 1.00            |                | 39.8            | 37.43         | 37             | Low Scale |
| Silica Blanks 2                                     |                 |                |            | 1.00            |                | 39.4            | 21.57         | 22             | Low Scale |
| Silica Blanks 3                                     |                 |                |            | 1.00            |                | 46.2            | 26.99         | 27             | Low Scale |
| Silica Blanks 4                                     |                 |                |            | 1.00            |                | 44.8            | 21.37         | 21             | Low Scale |
| SQ45 A1   |                 |                |            | 1.00            |                | 0.9             | 45695         | 45,695         | Range OK! |
| SQ45 B1   | 10.0            | 100.0          | 90.00%     | 10.00           |                | 1.6             | 10378         | 103,623        | Range OK! |
| SQ45 B1 dup   | 10.7            | 100.7          | 89.37%     | 9.41            |                | 1.6             | 15279         | 143,647        | RPD=32.4% |
| SQ45 B1   | 10.0            | 100.0          | 90.00%     | 10.00           |                | 1.6             | 13839         | 138,233        | Range OK! |
| SQ45 B1 trp   | 10.2            | 100.6          | 89.86%     | 9.86            |                | 1.6             | 13331         | 131,325        | RSD=4.5%  |
| SQ45 B1 ms  | 10.0            | 100.0          | 90.00%     | 10.00           | 10             | 1.8             | 24765         | 247,493        | Range OK! |
| Spike = 0.025 mg C to 0.2 mg samp = 138,889 ppm 79% |                 |                |            |                 |                |                 |               |                |           |
| CCV   |                 |                |            | 1.00            |                | 40.0            | 903           | 903            | 90.30%    |
| Blank   |                 |                |            | 1.00            |                | 40.0            | 26.37         | 26             | Blank OK  |
| SQ45 C1   | 13.3            | 109.5          | 87.85%     | 8.23            |                | 1.8             | 3493          | 28,632         | Low Scale |
| SQ45 D1   | 17.1            | 148.7          | 88.50%     | 8.70            |                | 0.9             | 18867         | 163,931        | Range OK! |
| SQ45 E1   | 12.3            | 107.3          | 88.54%     | 8.72            |                | 1.5             | 7889          | 68,685         | Range OK! |
| SQ45 F1   | 14.1            | 101.1          | 86.05%     | 7.17            |                | 1.2             | 14359         | 102,849        | Range OK! |
| SQ45 G1   | 12.4            | 115.5          | 89.26%     | 9.31            |                | 1.4             | 9664          | 89,870         | Range OK! |
| SS71 D6   | 13.3            | 102.2          | 86.99%     | 7.68            |                | 1.7             | 11064         | 84,901         | Range OK! |



**Sample Data**

$$^{\circ}\text{C corr} \text{ (with dilution)} = (^{\circ}\text{C obs} - (\text{Mean silica Blank} * \% \text{Silica})) * \text{Dilution Factor}$$

| Sample ID  | Dilution Data      |                   |               |                    | Spike<br>( $\mu\text{L Std}$ ) | Combustion Data  |                  |                   | comments  |
|------------|--------------------|-------------------|---------------|--------------------|--------------------------------|------------------|------------------|-------------------|-----------|
|            | Sample wt.<br>(mg) | Final wt.<br>(mg) | Silica<br>(%) | Dilution<br>Factor |                                | Burn wt.<br>(mg) | C obs<br>(ppm C) | C corr<br>(ppm C) |           |
| SS71 L6    |                    |                   |               | 1.00               |                                | 2.6              | 9932             | 9,932             | Range OK! |
| SS71 M6    |                    |                   |               | 1.00               |                                | 1.6              | 15310            | 15,310            | Range OK! |
| SS71 N6    |                    |                   |               | 1.00               |                                | 4.8              | 770              | 770               | Low Scale |
| SS71 O6    |                    |                   |               | 1.00               |                                | 4.7              | 686              | 686               | Low Scale |
| CCV        |                    |                   | -             | 4.00               |                                | 40.0             | 883              | 883               | 88.30%    |
| CCV        |                    |                   |               | 1.00               |                                | 40.0             | 911              | 911               | 91.10%    |
| Blank      |                    |                   |               | 1.00               |                                | 40.0             | 10.0             | 10                | Blank OK  |
| SS71 P6    |                    |                   | -             | 4.00               |                                | 2.5              | 6084             | 6,084             | Range OK! |
| SS71 Q6    |                    |                   | -             | 4.00               |                                | 3.6              | 6226             | 6,226             | Range OK! |
| SS71 R6    |                    |                   | -             | 4.00               |                                | 3.0              | 6627             | 6,627             | Range OK! |
| SS71 S6    |                    |                   | -             | 4.00               |                                | 4.0              | 6418             | 6,418             | Range OK! |
| ST56 A2    |                    |                   | -             | 4.00               |                                | 2.8              | 3700             | 3,700             | Range OK! |
| ST56 B2    |                    |                   | -             | 4.00               |                                | 1.6              | 7588             | 7,588             | Range OK! |
| SR72 C2    | 47.7               | 252.4             | 81.08%        | 5.29               |                                | 2.2              | 17688            | 93,408            | Range OK! |
| NIST 1941B |                    |                   | -             | 1.00               |                                | 2.9              | 24284            | 24,284            | 71.17%    |
| NIST 1941B |                    |                   |               | 1.00               |                                | 2.9              | 26234            | 26,234            | 87.74%    |
| Blank      |                    |                   |               | 1.00               |                                | 40.0             | 10.42            | 10                | Blank OK  |
| CCV        |                    |                   |               | 1.00               |                                | 40.0             | 930              | 930               | 93.00%    |



04-27-11 (10)

TOC Solids Sample Run Log  
Apollo 9000

Page 1 of 2

| Set-Up Parameters |                    |              | MODE: NPOC (Bent)   | INLET: Boat Sampler |          |  |
|-------------------|--------------------|--------------|---------------------|---------------------|----------|--|
| Standards:        | Source             |              | Conc (ppm)          |                     |          |  |
| Calibration:      | ARI 00115-7        |              | 5000                |                     |          |  |
| Verification:     | ERA 0513-10-06     |              | Scrub/donor for CUS |                     |          |  |
| SRM:              | NBS 1941 B         |              | 29900               |                     |          |  |
| Sample Sequence:  |                    |              |                     |                     |          |  |
| Sample ID         | Dilution Data (mg) |              | Burn Wt<br>mg       | Matrix Spike Data   |          | Comments                               |
|                   | Sample             | + Silica Gel |                     | mg/L                | µL added |  |
| 1CW               |                    |              | 40                  |                     |          | Change O Ring<br>containing Air Return |
| 1CW               |                    |              | 40                  |                     |          |  |
| 1CB               |                    |              | 40                  |                     |          |  |
| NBS 1941 B        |                    |              | 2.9                 |                     |          |  |
| SB                | 1                  |              | 39.8                |                     |          |  |
|                   | 2                  |              | 39.4                |                     |          |  |
|                   | 3                  |              | 46.2                |                     |          |  |
|                   | 4                  |              | 44.8                |                     |          |  |
| SQ45              | A1                 |              | 0.9                 |                     |          |  |
|                   | B1                 | 10.0         | 100.0               | 1.6                 | 100      | high                                   |
|                   | B1                 | 10.7         | 100.7               | 1.6                 |          |  |
|                   | B1                 | 10.0         | 100.0               | 1.6                 |          |  |
|                   | B1                 | 10.2         | 100.56              | 1.6                 | 2500     | 100                                    |
|                   | B1                 | 10.0         | 100.0               | 1.8                 | 2500     | 10                                     |
| CCU               |                    |              | 40                  |                     |          |  |
| CCB               |                    |              | 40                  |                     |          |  |
| SQ45              | C1                 | 13.3         | 109.5               | 1.8                 |          |  |
|                   | D1                 | 17.1         | 148.7               | 0.9                 |          |  |
|                   | E1                 | 12.3         | 107.3               | 1.5                 |          |  |
|                   | F1                 | 14.1         | 101.1               | 1.2                 |          |  |
|                   | G1                 | 12.4         | 115.5               | 1.4                 |          |  |
| SS71              | D6                 | 13.3         | 102.2               | 1.7                 |          |  |
|                   | L6                 |              | 2.6                 |                     |          |  |
|                   | M6                 |              | 1.6                 |                     |          |  |
|                   | N6                 |              | 4.8                 |                     |          |  |
|                   | O6                 |              | 4.7                 |                     |          |  |
| CCU               |                    |              | 40/40               |                     |          |  |
| UCB               |                    |              | 40                  |                     |          |  |
| SS71              | P6                 |              | 2.5                 |                     |          |  |
|                   | Q6                 |              | 3.6                 |                     |          |  |
|                   | R6                 |              | 3.0                 |                     |          |  |
|                   | S6                 |              | 4.0                 |                     |          |  |



① 4-27-11 (W)

TOC Solids Sample Run Log  
Apollo 9000

Page 2 of 2

| Set-Up Parameters  |                      |              | MODE: <i>NPOC (Bout)</i> | INLET: <i>Bout Sampler</i> |          |  |
|--------------------|----------------------|--------------|--------------------------|----------------------------|----------|--|
| Standards:         | Source               |              | Conc (ppm)               |                            |          |  |
| Calibration:       | <i>ART OAKS-7</i>    |              | <i>5000</i>              |                            |          |  |
| Verification:      | <i>ERA0513-10-06</i> |              | <i>Scantlonford US</i>   |                            |          |  |
| SRM:               | <i>NBS 1941B</i>     |              | <i>29900</i>             |                            |          |  |
| <i>10:02</i>       |                      |              |                          |                            |          |  |
| Sample Sequence:   |                      |              |                          |                            |          |  |
| Sample ID          | Dilution Data (mg)   |              | Burn Wt                  | Matrix Spike Data          |          | Comments                                   |
|                    | Sample               | + Silica Gel | mg                       | mg/L                       | µL added |  |
| <i>ST56 A3</i>     |                      |              | <i>2.8</i>               |                            |          |  |
| <i>✓ B3</i>        |                      |              | <i>1.6</i>               |                            |          |  |
| <i>SR12 C2</i>     | <i>47.1</i>          | <i>252.1</i> | <i>2.2</i>               |                            |          |  |
| <i>NBS 1941B</i>   |                      |              | <i>2.9 / 2.9</i>         |                            |          |  |
| <i>CCU</i>         |                      |              | <i>40 / 40 / 40 / 40</i> | <i>mg NOT AL</i>           |          | <i>(check air reagent low still looks)</i> |
| <i>CCU/CCB/CCU</i> |                      |              | <i>40 / 40 / 40</i>      |                            |          |  |
| <i>4-27-11 (W)</i> |                      |              |                          |                            |          |  |

4-27-11(W)

Sample ID: CVS BOAT 1000 Mode: TOC  
 Method: Boat Sampler Filename: 04271018  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 10:23  
 Operator ID: TRINA Sample Type: Cal. Verification

4-28-11(W)

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 1656.1312 | 66.2452 | 20561424 | 33.698             | 34.695          | 242              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
 Method: Boat Sampler Filename: 04271026  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 10:32  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 969.6076 | 38.7843 | 12004829 | 33.459             | 34.456          | 129              |

Sample ID: ICB BOAT Mode: TOC  
 Method: Boat Sampler Filename: 04271040  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 10:42  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C  | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|--------|--------|----------|--------------------|-----------------|------------------|
| 1     | 9.9502 | 0.3980 | 43988    | 32.700             | 32.730          | 120              |

Last Message: Low Sample Detected

Sample ID: NBS 1941B Mode: TOC  
 Method: Boat Sampler Filename: 04271048  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 10:54  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 25407.1738 | 73.6808 | 22878280 | 32.786             | 33.785          | 176              |

Sample ID: SB 1 Mode: TOC  
 Method: Boat Sampler Filename: 04271150  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 11:52  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 37.4264 | 1.4896 | 464137   | 34.182             | 35.172          | 64               |

Sample ID: SB 2 Mode: TOC  
 Method: Boat Sampler Filename: 04271156  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 11:58  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 21.5732 | 0.8500 | 264848   | 33.639             | 34.630          | 60               |

Sample ID: SB 3 Mode: TOC  
 Method: Boat Sampler Filename: 04271202  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 12:04  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 26.9915 | 1.2470 | 388557   | 33.271             | 34.271          | 61               |

Sample ID: SB 4  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04271213  
 Timestamp: 2011/04/27 12:15  
 Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 21.3712 | 0.9574 | 298327   | 32.720             | 33.719          | 57               |

Sample ID: SQ45 A1  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04271220  
 Timestamp: 2011/04/27 12:24  
 Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 45695.2812 | 41.1258 | 12814433 | 32.394             | 33.388          | 135              |

Sample ID: SQ45 B1  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04271227  
 Timestamp: 2011/04/27 12:31  
 Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 10377.6904 | 16.6043 | 5173759  | 32.128             | 33.125          | 103              |

Sample ID: SQ45 B1 DUP  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04271234  
 Timestamp: 2011/04/27 12:37  
 Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 15278.8105 | 24.4461 | 7617195  | 32.035             | 33.028          | 117              |

Sample ID: SQ45 B1  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04271249  
 Timestamp: 2011/04/27 12:58  
 Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 13839.1367 | 22.1426 | 6899450  | 31.701             | 32.700          | 112              |

Sample ID: SQ45 B1 TRIP  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04271304  
 Timestamp: 2011/04/27 13:07  
 Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 13331.3799 | 21.3302 | 6646310  | 31.631             | 32.629          | 117              |

Sample ID: SQ45 B1  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04271312  
 Timestamp: 2011/04/27 13:16  
 Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|-------|-------|------|----------|--------------------|-----------------|------------------|

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 24764.6309 | 44.5763 | 13889605 | 31.613             | 32.612          | 140              |

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04271319  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 13:22  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 903.4415 | 36.1377 | 11180158 | 31.878             | 32.875          | 118              |

Sample ID: ICB BOAT Mode: TOC  
Method: Boat Sampler Filename: 04271328  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 13:30  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 26.3730 | 1.0549 | 248676   | 31.685             | 32.682          | 60               |

Sample ID: SQ45 C1 Mode: TOC  
Method: Boat Sampler Filename: 04271334  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 13:37  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|--------|----------|--------------------|-----------------|------------------|
| 1     | 3493.4934 | 6.2883 | 1959377  | 31.574             | 32.560          | 84               |

Sample ID: SQ45 D1 Mode: TOC  
Method: Boat Sampler Filename: 04271340  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 13:50  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 18867.2617 | 16.9805 | 5290990  | 31.683             | 32.683          | 125              |

Sample ID: SQ45 E1 Mode: TOC  
Method: Boat Sampler Filename: 04271403  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 14:05  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 7889.3838 | 11.8341 | 3687397  | 33.456             | 34.456          | 101              |

Sample ID: SQ45 F1 Mode: TOC  
Method: Boat Sampler Filename: 04271409  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 14:13  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 14358.7578 | 17.2305 | 5368879  | 34.218             | 35.215          | 114              |

Sample ID: SQ45 G1 Mode: TOC  
Method: Boat Sampler Filename: 04271415  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 14:18  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|       |       |      |          |                    |                 |                  |

1 9664.1826 13.5299 4215787 34.619 35.614 93

Sample ID: SS71 D6 Mode: TOC  
Method: Boat Sampler Filename: 04271426  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 14:29  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 11064.0654 | 18.8089 | 5860696  | 34.342             | 35.339          | 97               |

Sample ID: SS71 L6 Mode: TOC  
Method: Boat Sampler Filename: 04271511  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 15:15  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 9931.7129 | 25.8225 | 8046055  | 32.054             | 33.046          | 164              |

Sample ID: SS71 M6 Mode: TOC  
Method: Boat Sampler Filename: 04271517  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 15:20  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 15309.5723 | 24.4953 | 7632531  | 32.006             | 32.997          | 119              |

Sample ID: SS71 N6 Mode: TOC  
Method: Boat Sampler Filename: 04271524  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 15:26  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|--------|----------|--------------------|-----------------|------------------|
| 1     | 769.5258 | 3.6937 | 1150933  | 31.807             | 32.803          | 80               |

Sample ID: SS71 O6 Mode: TOC  
Method: Boat Sampler Filename: 04271532  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 15:35  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|--------|----------|--------------------|-----------------|------------------|
| 1     | 686.3992 | 3.2261 | 1005218  | 31.572             | 32.572          | 83               |

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04271543  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 15:46  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 883.4927 | 35.3397 | 10931523 | 31.836             | 32.835          | 122              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04271549  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 15:51  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|-------|-------|------|----------|--------------------|-----------------|------------------|

|                             | Baseline | Baseline | Time |
|-----------------------------|----------|----------|------|
| 1 911.3107 36.4524 11278236 | 31.828   | 32.826   | 117  |

Sample ID: ICB BOAT Mode: TOC  
 Method: Boat Sampler Filename: 04271557  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 16:04  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C  | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|--------|--------|----------|--------------------|-----------------|------------------|
| 1     | 9.9991 | 0.4000 | 44598    | 31.563             | 32.559          | 44               |

Sample ID: SS71 P6 Mode: TOC  
 Method: Boat Sampler Filename: 04271610  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 16:16  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 6080.7300 | 15.2018 | 4736759  | 31.712             | 32.708          | 133              |

Sample ID: SS71 Q6 Mode: TOC  
 Method: Boat Sampler Filename: 04271644  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 16:47  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 6226.0781 | 22.4139 | 6983973  | 36.001             | 37.001          | 142              |

Sample ID: SS71 R6 Mode: TOC  
 Method: Boat Sampler Filename: 04271706  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 17:14  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 6627.0469 | 19.8811 | 6194793  | 34.655             | 35.653          | 106              |

Sample ID: SS71 S6 Mode: TOC  
 Method: Boat Sampler Filename: 04271731  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 17:34  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 6418.0874 | 25.6723 | 7999284  | 32.817             | 33.813          | 124              |

Sample ID: ST56 A2 Mode: TOC  
 Method: Boat Sampler Filename: 04271757  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 18:01  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 3699.9695 | 10.3599 | 3228061  | 31.395             | 32.392          | 88               |

Sample ID: ST56 B2 Mode: TOC  
 Method: Boat Sampler Filename: 04271804  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 18:07  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|       |       |      |          |                    |                 |                  |

*Remind  
 To enter with  
 final IGV  
 4-27-11 @*



1 7588.2495 12.1412 3783094 31.437 32.436 90

---

Sample ID: SR72 C2 Mode: TOC  
 Method: Boat Sampler Filename: 04271846  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 18:50  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 17687.6934 | 38.9129 | 12124934 | 30.944             | 31.944          | 125              |

*Return  
 Pk to ERM  
 in Envel 900  
 427110*

Sample ID: NBS 1941B Mode: TOC  
 Method: Boat Sampler Filename: 04271855  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 18:59  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 21280.9434 | 61.7147 | 19149756 | 30.816             | 31.816          | 152              |

Last Message: Out of Calibration

Sample ID: NBS 1941B Mode: TOC  
 Method: Boat Sampler Filename: 04271904  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 19:11  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 26234.1367 | 76.0790 | 23625536 | 30.666             | 31.664          | 164              |

Sample ID: CVS BOAT 1000 Mode: TOC  
 Method: Boat Sampler Filename: 04271915  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 19:18  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 886.1080 | 35.4443 | 10964119 | 31.004             | 32.000          | 119              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
 Method: Boat Sampler Filename: 04271921  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 19:24  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 875.0085 | 35.0003 | 10825779 | 30.903             | 31.897          | 120              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
 Method: Boat Sampler Filename: 04271927  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 19:30  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 891.1536 | 35.6461 | 11027006 | 30.936             | 31.927          | 120              |

Last Message: Out of Calibration

*427-11  
 (2)*

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04271933  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 19:36  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 884.8810 | 35.3952 | 10948826 | 30.925             | 31.924          | 123              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04271943  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 19:46  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 889.1254 | 35.5650 | 11001727 | 31.145             | 32.136          | 120              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04271954  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 19:57  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 897.2754 | 35.8910 | 11103306 | 31.756             | 32.754          | 138              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04272000  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 20:03  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 895.5960 | 35.8238 | 11082373 | 32.657             | 33.656          | 140              |

Last Message: Out of Calibration

Sample ID: ICB BOAT Mode: TOC  
Method: Boat Sampler Filename: 04272005  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 20:07  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 10.4170 | 0.4167 | 49807    | 33.689             | 34.681          | 47               |

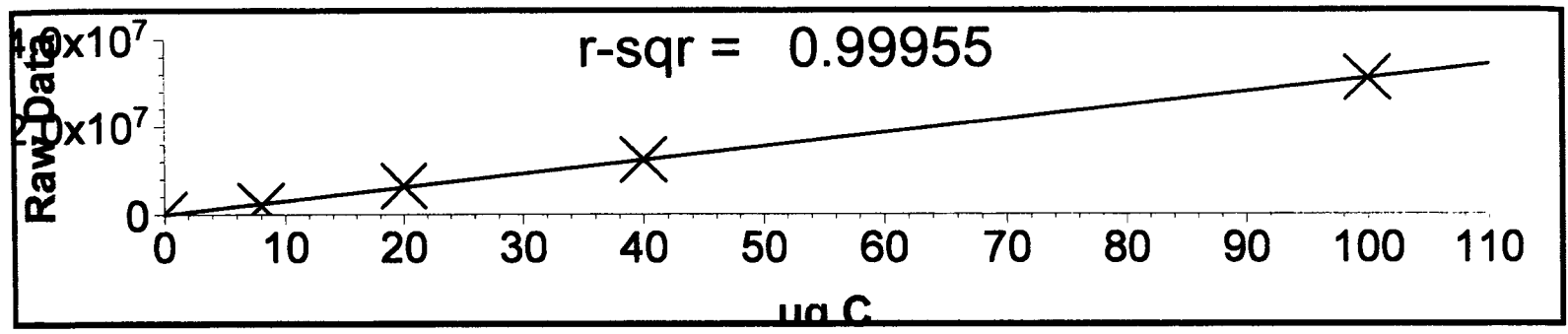
Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04272011  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/27 20:15  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 929.5134 | 37.1805 | 11505109 | 34.935             | 35.932          | 199              |

*Analyst Ran 100  
Several Times  
To find Problem  
Feu was being Ran  
under (MS) should  
have been under (UL)  
once Ran under (UL)  
100 was fine  
4-27-11 (W)*

Cal. Curve ID: 041911 BOAT CAL  
 Created: 2011/04/19 18:06  
 Calibration Factor (m): 3.116e+05  
 Y Intercept (b): -80028  
 r-squared: 0.99955

| Standard ID | Y        | X Expected | Measured | Message       | Date & Time      |
|-------------|----------|------------|----------|---------------|------------------|
| DI WATER    | 30053    | 0.000      | 0.353    | Low Sample De | 2011/04/19 16:52 |
| 200 PPM     | 1996979  | 8.000      | 6.666    |               | 2011/04/19 16:57 |
| 500 PPM     | 6459582  | 20.000     | 20.988   |               | 2011/04/19 17:12 |
| 1000 PPM    | 12427234 | 40.000     | 40.140   |               | 2011/04/19 17:33 |
| 2500 PPM    | 31033376 | 100.000    | 99.853   | Over-range    | 2011/04/19 17:52 |



```

=====
Sample ID:  DI WATEER           Mode:      TOC
Method:     Boat Sampler        Filename:  04191649
Cal. Curve: 041911 BOAT CAL     Timestamp: 2011/04/19 16:52
Operator ID: TRINA              Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 30053    | 49.055             | 49.144          | 120              |

-----  
 Last Message: Low Sample Detected  
 -----

```

Sample ID:  200    PPM           Mode:      TOC
Method:     Boat Sampler        Filename:  04191655
Cal. Curve: 041911 BOAT CAL     Timestamp: 2011/04/19 16:57
Operator ID: TRINA              Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 1996979  | 49.493             | 50.490          | 67               |

```

Sample ID:  500    PPM           Mode:      TOC
Method:     Boat Sampler        Filename:  04191701
Cal. Curve: 041911 BOAT CAL     Timestamp: 2011/04/19 17:05
Operator ID: TRINA              Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 4483189  | 49.954             | 50.952          | 96               |

```

Sample ID:  500    PPM           Mode:      TOC
Method:     Boat Sampler        Filename:  04191707
Cal. Curve: 041911 BOAT CAL     Timestamp: 2011/04/19 17:12
Operator ID: TRINA              Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 6459582  | 50.297             | 51.297          | 132              |

```

Sample ID:  500    PPM           Mode:      TOC
Method:     Boat Sampler        Filename:  04191720
Cal. Curve: 041911 BOAT CAL     Timestamp: 2011/04/19 17:23
Operator ID: TRINA              Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 6064090  | 50.604             | 51.603          | 115              |

```

Sample ID:  1000   PPM           Mode:      TOC
Method:     Boat Sampler        Filename:  04191730
Cal. Curve: 041911 BOAT CAL     Timestamp: 2011/04/19 17:33
Operator ID: TRINA              Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 12427234 | 50.569             | 51.567          | 154              |

```

Sample ID:  1000   PPM           Mode:      TOC
Method:     Boat Sampler        Filename:  04191740
Cal. Curve: 041911 BOAT CAL     Timestamp: 2011/04/19 17:44
Operator ID: TRINA              Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|       |       |      |          |                    |                 |                  |

1 12531159 50.184 51.182 164

Sample ID: 2500 PPM Mode: TOC  
Method: Boat Sampler Filename: 04191748  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 17:52  
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 31033376 | 50.475                | 51.469             | 190                 |

Last Message: Over-range

Sample ID: 2500 PPM Mode: TOC  
Method: Boat Sampler Filename: 04191758  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 18:04  
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 31980592 | 49.823                | 50.820             | 230                 |

Last Message: Over-range

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04191817  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 18:21  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1072.8492 | 42.9140 | 13291597 | 50.282                | 51.281             | 156                 |

# TOC, Solids Data Analysis

Instrument: Apollo 2

Mode: NPOC

Inlet: Boat

Spike Std = 2,500 ppm C

DATE: 4/25/2011

ANALYST: KE 12:14

## Calibration Data

Cal Curve ID: 41911 BOAT CAL

Conc: 5,000 ppm

Calibration Curve Standard: ARI # 00115 - 7

Curve Date: 04/19/11

CalFact: 3.116E+05 intercept: -80028

r2: 0.99955

Curve Range (ppm) 200 to 2,500

Curve Range (µgC): 8 to 100 40 µL injections of designated standard

## Verification Standard

Source: ERA# 0513 - 10 - 06

Conc: 5,000 ppm

dilution: 10 mL to 50

1,000 ppm

## Standard Reference Material

Source: NIST 8704

Conc: 33,510 ppm

Source: NIST 1941B

Conc: 29,900 ppm

## Silica Blanks

| Replicate determinations |  |  |  |  | Mean | RSD | condition |
|--------------------------|--|--|--|--|------|-----|-----------|
|                          |  |  |  |  |      |     |           |

## Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank \* %Silica)) \* Dilution Factor

| Sample ID  | Dilution Data   |                |            |                 | Spike (µL Std) | Combustion Data |               |                | comments  |
|--|-----------------|----------------|------------|-----------------|----------------|-----------------|---------------|----------------|-----------|
|  | Sample wt. (mg) | Final wt. (mg) | Silica (%) | Dilution Factor |                | Burn wt. (mg)   | C obs (ppm C) | C corr (ppm C) |           |
| ICV  |                 |                | -          | 4.00            |                | 40.0            | 1153          | 1,153          | 115.30%   |
| ICV  |                 |                |            | 1.00            |                | 40.0            | 927           | 927            | 92.70%    |
| Blank  |                 |                |            | 1.00            |                | 40.0            | 10.32         | 10             | Blank OK  |
| NIST 1941B                                       |                 |                |            | 1.00            |                | 3.6             | 27469         | 27,469         | 91.87%    |
| SR91 B1  |                 |                | -          | 4.00            |                | 4.1             | 892           | 892            | Low Scale |
| SR91 B1  |                 |                |            | 1.00            |                | 3.6             | 554           | 554            | Low Scale |
| SR91 B1 dup                                      |                 |                |            | 1.00            |                | 4.1             | 506           | 506            | RPD=9.1%  |
| SR91 B1 trp                                      |                 |                |            | 1.00            |                | 4.3             | 495           | 495            | RSD=6.1%  |
| SR91 B1 ms                                       |                 |                |            | 1.00            | 10             | 4.3             | 5982          | 5,982          | Range OK! |
| Spike = 0.025 mg C to 4.3 mg samp= 5,814 ppm 93% |                 |                |            |                 |                |                 |               |                |           |
| SS71   6   |                 |                |            | 1.00            |                | 4.6             | 2380          | 2,380          | Range OK! |
| SS71   6 dup                                     |                 |                |            | 1.00            |                | 4.5             | 2342          | 2,342          | RPD=1.6%  |
| SS71   6 trp                                     |                 |                |            | 1.00            |                | 4.3             | 2505          | 2,505          | RSD=3.5%  |
| SS71   6 ms                                      |                 |                |            | 1.00            | 10             | 4.2             | 8009          | 8,009          | Range OK! |
| Spike = 0.025 mg C to 4.2 mg samp= 5,952 ppm 95% |                 |                |            |                 |                |                 |               |                |           |
| CCV  |                 |                |            | 1.00            |                | 40.0            | 981           | 981            | 98.10%    |
| Blank  |                 |                |            | 1.00            |                | 40.0            | 8.62          | 9              | Blank OK  |

| <b>Sample Data</b>  |                    |                   |               |                    |                         |                  |                  |                   |                  |
|---|--------------------|-------------------|---------------|--------------------|-------------------------|------------------|------------------|-------------------|------------------|
| <i>"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor</i> |                    |                   |               |                    |                         |                  |                  |                   |                  |
| Sample ID   | Dilution Data      |                   |               |                    | Spike<br>( $\mu$ L Std) | Combustion Data  |                  |                   | comments         |
|   | Sample wt.<br>(mg) | Final wt.<br>(mg) | Silica<br>(%) | Dilution<br>Factor |                         | Burn wt.<br>(mg) | C obs<br>(ppm C) | C corr<br>(ppm C) |                  |
| SS71 A6   |                    |                   |               | 1.00               |                         | 0.9              | 48396            | 48,396            | Range OK!        |
| SS71 B6   |                    |                   |               | 1.00               |                         | 1.0              | 27645            | 27,645            | Range OK!        |
| SS71 C6   |                    |                   |               | 1.00               |                         | 2.2              | 16882            | 16,882            | Range OK!        |
| SS71 D6   |                    |                   | -             | 1.00               |                         | 1.0              | 100102           | 100,102           | Offscale, dilute |
| SS71 E6   |                    |                   |               | 1.00               |                         | 1.2              | 36593            | 36,593            | Range OK!        |
| SS71 F6   |                    |                   |               | 1.00               |                         | 0.9              | 45944            | 45,944            | Range OK!        |
| SS71 G6   |                    |                   |               | 1.00               |                         | 0.9              | 61087            | 61,087            | Range OK!        |
| SS71 H6   |                    |                   |               | 1.00               |                         | 4.0              | 5269             | 5,269             | Range OK!        |
| SS71 J6   |                    |                   |               | 1.00               |                         | 1.4              | 24800            | 24,800            | Range OK!        |
| SS71 K6   |                    |                   |               | 1.00               |                         | 5.1              | 7105             | 7,105             | Range OK!        |
| NIST 1941B  |                    |                   | -             | 1.00               |                         | 3.5              | 29612            | 29,612            | Offscale, dilute |
| NIST 1941B  |                    |                   | -             | 1.00               |                         | 3.2              | 23765            | 23,765            | 79.48%           |
| NIST 1941B  |                    |                   |               | 1.00               |                         | 3.1              | 25143            | 25,143            | 84.09%           |
| CCV   |                    |                   |               | 1.00               |                         | 40.0             | 948              | 948               | 94.80%           |
| Blank   |                    |                   |               | 1.00               |                         | 40.0             | 10.29            | 10                | Blank OK         |





① 4-25-11 ②

**TOC Solids Sample Run Log**  
**Apollo 9000**

Page 1 of 1

|   |                       |                         |                           |
|---|-----------------------|-------------------------|---------------------------|
| Set-Up Parameters MODE: <i>NPOC</i> (Bot) |                       |                         | INLET: <i>Boat Sample</i> |
| Standards:                                | Source                | Conc (ppm)              |                           |
| Calibration:                              | <i>ARI 0015-7</i>     | <i>5000</i>             |                           |
| Verification:                             | <i>ERA 0513-10-06</i> | <i>Good to go focus</i> |                           |
| SRM:                                      | <i>NBS 1941 B</i>     | <i>29900</i>            |                           |

12:14

**Sample Sequence:**

| Sample ID                  | Dilution Data (mg) |              | Burn Wt<br>mg | Matrix Spike Data |          | Comments         |
|----------------------------|--------------------|--------------|---------------|-------------------|----------|------------------|
|                            | Sample             | + Silica Gel |               | mg/L              | µL added |                  |
| <del>ICB</del>             |                    |              | 40            |                   |          |                  |
| <del>ICU</del>             |                    |              | 40            |                   |          |                  |
| <del>ICB</del>             |                    |              | 40            |                   |          |                  |
| <i>NBS 1941 B</i>          |                    |              | 3.6           |                   |          |                  |
| <i>SR991 B<sup>1</sup></i> |                    |              | 4.1           |                   |          |                  |
| <i>B<sup>1</sup></i>       |                    |              | 3.6           |                   |          |                  |
| <i>or B<sup>1</sup></i>    |                    |              | 4.1           |                   |          |                  |
| <i>or B<sup>1</sup></i>    |                    |              | 4.3           |                   |          |                  |
| <i>MSB<sup>1</sup></i>     |                    |              | 4.3           | 2500              | 10       |                  |
| <i>SS71 I<sup>6</sup></i>  |                    |              | 4.6           |                   |          |                  |
| <i>or I<sup>6</sup></i>    |                    |              | 4.8           |                   |          |                  |
| <i>or I<sup>6</sup></i>    |                    |              | 4.3           |                   |          |                  |
| <i>MSI<sup>6</sup></i>     |                    |              | 3.7           | 2500              | 10       |                  |
| <del>ICU</del>             |                    |              | 40            |                   |          |                  |
| <i>CCB</i>                 |                    |              | 40            |                   |          |                  |
| <i>SR71 A<sup>6</sup></i>  |                    |              | 0.9           |                   |          |                  |
| <i>B<sup>6</sup></i>       |                    |              | 1.0           |                   |          |                  |
| <i>C<sup>6</sup></i>       |                    |              | 2.2           |                   |          |                  |
| <i>D<sup>6</sup></i>       |                    |              | 1.0           |                   |          | off scale Releak |
| <i>E<sup>6</sup></i>       |                    |              | 1.2           |                   |          |                  |
| <i>F<sup>6</sup></i>       |                    |              | 0.9           |                   |          |                  |
| <i>G<sup>6</sup></i>       |                    |              | 0.9           |                   |          |                  |
| <i>H<sup>6</sup></i>       |                    |              | 4.0           |                   |          |                  |
| <i>J<sup>6</sup></i>       |                    |              | 1.4           |                   |          |                  |
| <i>K<sup>6</sup></i>       |                    |              | 5.1           |                   |          |                  |
| <i>NBS 1941 B</i>          |                    |              | 3.5/3.2/3.1   |                   |          |                  |
| <i>CCU</i>                 |                    |              | 40            |                   |          |                  |
| <i>CCB</i>                 |                    |              | 40            |                   |          |                  |

4-25-11

425-11 (W)

Detailed Analysis Report Print Date/Time: 2011/04/25 21:27:42

Sample ID: CVS BOAT 1000 Mode: TOC  
 Method: Boat Sampler Filename: 04251100  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 11:04  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 1153.0085 | 46.1203 | 14290675 | 34.035             | 35.033          | 146              |

Last Message: Out of Calibration

Sample ID: CVS BOAT 1000 Mode: TOC  
 Method: Boat Sampler Filename: 04251122  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 11:25  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 926.6937 | 37.0677 | 11469966 | 34.231             | 35.231          | 133              |

Sample ID: ICB BOAT Mode: TOC  
 Method: Boat Sampler Filename: 04251230  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 12:32  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 10.3239 | 0.4130 | 48646    | 38.212             | 39.211          | 46               |

Sample ID: NBS 1941B Mode: TOC  
 Method: Boat Sampler Filename: 04251304  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 13:22  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 27469.0449 | 98.8886 | 30732800 | 35.860             | 36.854          | 187              |

Last Message: Over-range

Sample ID: SR91 B1 Mode: TOC  
 Method: Boat Sampler Filename: 04251547  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 15:50  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|--------|----------|--------------------|-----------------|------------------|
| 1     | 892.3430 | 3.6586 | 1139990  | 34.902             | 35.897          | 93               |

Sample ID: SR91 B1 <sup>AP</sup> Mode: TOC  
 Method: Boat Sampler Filename: 04251600  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 16:02  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|--------|----------|--------------------|-----------------|------------------|
| 1     | 554.2085 | 1.9952 | 621672   | 35.032             | 36.030          | 76               |

Sample ID: SR91 B1 Mode: TOC  
 Method: Boat Sampler Filename: 04251607  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 16:10  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 506.0246 | 2.0747 | 646459   | 35.010                | 36.007             | 75                  |

Sample ID: SR91 B14  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04251613  
 Timestamp: 2011/04/25 16:15  
 Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 494.8318 | 2.1278 | 662997   | 35.174                | 36.171             | 72                  |

Sample ID: SR91 B1 MS  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04251622  
 Timestamp: 2011/04/25 16:25  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 5982.3608 | 25.7242 | 8015426  | 35.594                | 36.593             | 108                 |

Sample ID: SS71 I 6  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04251632  
 Timestamp: 2011/04/25 16:35  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 2380.4265 | 10.9500 | 3411914  | 34.968                | 35.966             | 107                 |

Sample ID: SS71 I 6  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04251732  
 Timestamp: 2011/04/25 17:36  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 2341.6458 | 10.5374 | 3283365  | 35.042                | 36.040             | 108                 |

Sample ID: SS71 I 6  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04251748  
 Timestamp: 2011/04/25 17:53  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 2504.5955 | 10.7698 | 3355765  | 35.063                | 36.056             | 106                 |

Sample ID: SS71 I 6 M5  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04251818  
 Timestamp: 2011/04/25 18:27  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 8008.7988 | 33.6370 | 10480987 | 35.443                | 36.441             | 135                 |

Sample ID: CVS BOAT 1000  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04251836  
 Timestamp: 2011/04/25 18:39  
 Sample Type: Cal. Verification

| Rep # | ppm C | ug C | Raw Data | Beginning | Ending | Integration |
|-------|-------|------|----------|-----------|--------|-------------|
|-------|-------|------|----------|-----------|--------|-------------|

|   | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|---|----------|---------|----------|--------------------|-----------------|------------------|
| 1 | 981.0996 | 39.2440 | 12148062 | 35.412             | 36.408          | 138              |

Sample ID: ICB BOAT Mode: TOC  
 Method: Boat Sampler Filename: 04251853  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 18:56  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C  | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|--------|--------|----------|--------------------|-----------------|------------------|
| 1     | 8.6177 | 0.3447 | 27380    | 35.383             | 35.324          | 120              |

Last Message: Low Sample Detected

Sample ID: SR71 A1 Mode: TOC  
 Method: Boat Sampler Filename: 04251900  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 19:04  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 48395.5391 | 38.7164 | 12063708 | 35.518             | 36.516          | 143              |

Sample ID: SR71 B1 Mode: TOC  
 Method: Boat Sampler Filename: 04251914  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 19:18  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 27645.2656 | 27.6453 | 8614028  | 35.655             | 36.652          | 141              |

Sample ID: SR71 C1 Mode: TOC  
 Method: Boat Sampler Filename: 04251921  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 19:28  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 16882.2480 | 37.1409 | 11572801 | 36.083             | 37.076          | 212              |

Sample ID: SR71 D1 Mode: TOC  
 Method: Boat Sampler Filename: 04251931  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 19:38  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C       | ug C     | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------------|----------|----------|--------------------|-----------------|------------------|
| 1     | 100102.1953 | 100.1022 | 31190986 | 37.298             | 38.295          | 222              |

Last Message: Over-range

Sample ID: SR71 E1 Mode: TOC  
 Method: Boat Sampler Filename: 04251955  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 19:59  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 36592.6055 | 43.9111 | 13682331 | 37.589             | 38.588          | 148              |

Sample ID: SR71 F1 Mode: TOC  
 Method: Boat Sampler Filename: 04252002  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 20:06

Operator ID: TRINA

Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 45943.6523 | 41.3493 | 12884084 | 37.255             | 38.250          | 145              |

Sample ID: SR71 F1 Mode: TOC  
 Method: Boat Sampler Filename: 04252012  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 20:15  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 61087.3672 | 54.9786 | 17130870 | 36.913             | 37.911          | 149              |

Sample ID: SR71 H1 Mode: TOC  
 Method: Boat Sampler Filename: 04252018  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 20:21  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 5269.2593 | 21.0770 | 6567424  | 36.609             | 37.609          | 117              |

Sample ID: SR71 J1 Mode: TOC  
 Method: Boat Sampler Filename: 04252025  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 20:29  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 24799.5977 | 34.7194 | 10818279 | 36.314             | 37.311          | 139              |

Sample ID: SR71 K1 Mode: TOC  
 Method: Boat Sampler Filename: 04252042  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 20:46  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 7105.4629 | 36.2379 | 11291407 | 35.841             | 36.841          | 155              |

Sample ID: NBS 1941B Mode: TOC  
 Method: Boat Sampler Filename: 04252050  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 20:54  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C     | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|----------|----------|--------------------|-----------------|------------------|
| 1     | 29612.0352 | 103.6421 | 32213972 | 35.570             | 36.568          | 181              |

Last Message: Over-range

Sample ID: NBS 1941B Mode: TOC  
 Method: Boat Sampler Filename: 04252057  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 21:00  
 Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 23764.7812 | 76.0473 | 23615660 | 35.730             | 36.728          | 168              |

Last Message: Out of Calibration

Sample ID: NBS 1941B Mode: TOC  
Method: Boat Sampler Filename: 04252104  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 21:09  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 25142.7969 | 77.9427 | 24206240 | 35.313                | 36.312             | 179                 |

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04252113  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 21:16  
Operator ID: TRINA Sample Type: Cal. Verification

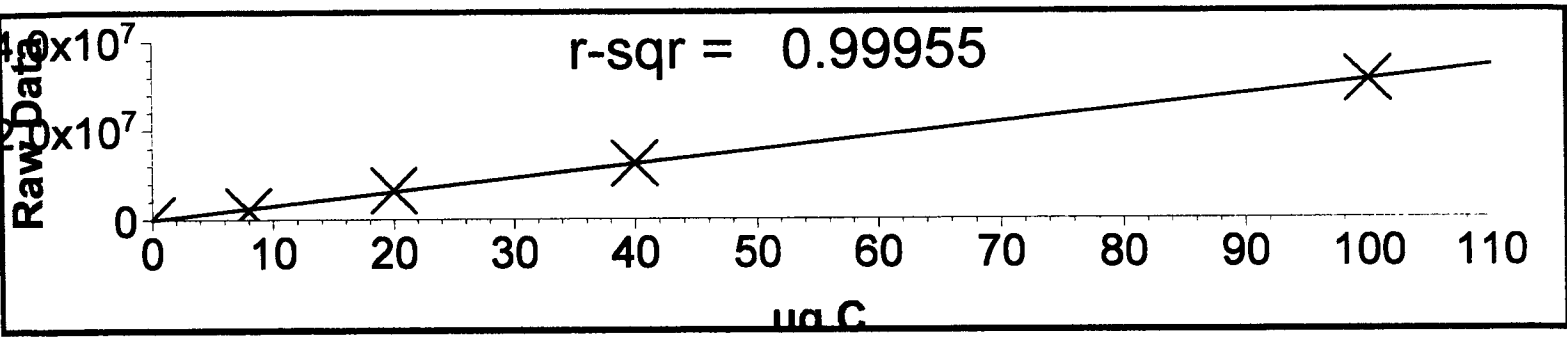
| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 948.1120 | 37.9245 | 11736916 | 35.807                | 36.807             | 126                 |

Sample ID: ICB BOAT Mode: TOC  
Method: Boat Sampler Filename: 04252120  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/25 21:22  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 10.2918 | 0.4117 | 48245    | 35.567                | 36.565             | 44                  |

Cal. Curve ID: 041911 BOAT CAL  
 Created: 2011/04/19 18:06  
 Calibration Factor (m): 3.116e+05  
 Y Intercept (b): -80028  
 r-squared: 0.99955

| Standard ID | Y<br>Raw Data | X Expected<br>ug C | Measured<br>ug C | Message       | Date &<br>Time   |
|-------------|---------------|--------------------|------------------|---------------|------------------|
| DI WATEER   | 30053         | 0.000              | 0.353            | Low Sample De | 2011/04/19 16:52 |
| 200 PPM     | 1996979       | 8.000              | 6.666            |               | 2011/04/19 16:57 |
| 500 PPM     | 6459582       | 20.000             | 20.988           |               | 2011/04/19 17:12 |
| 1000 PPM    | 12427234      | 40.000             | 40.140           |               | 2011/04/19 17:33 |
| 2500 PPM    | 31033376      | 100.000            | 99.853           | Over-range    | 2011/04/19 17:52 |





```

=====
Sample ID:  DI WATEER                      Mode:      TOC
Method:     Boat Sampler                   Filename:  04191649
Cal. Curve: 041911 BOAT CAL               Timestamp: 2011/04/19 16:52
Operator ID: TRINA                        Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 30053    | 49.055             | 49.144          | 120              |

-----  
 Last Message: Low Sample Detected  
 =====

```

Sample ID:  200  PPM                      Mode:      TOC
Method:     Boat Sampler                   Filename:  04191655
Cal. Curve: 041911 BOAT CAL               Timestamp: 2011/04/19 16:57
Operator ID: TRINA                        Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 1996979  | 49.493             | 50.490          | 67               |

```

Sample ID:  500  PPM                      Mode:      TOC
Method:     Boat Sampler                   Filename:  04191701
Cal. Curve: 041911 BOAT CAL               Timestamp: 2011/04/19 17:05
Operator ID: TRINA                        Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 4483189  | 49.954             | 50.952          | 96               |

```

Sample ID:  500  PPM                      Mode:      TOC
Method:     Boat Sampler                   Filename:  04191707
Cal. Curve: 041911 BOAT CAL               Timestamp: 2011/04/19 17:12
Operator ID: TRINA                        Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 6459582  | 50.297             | 51.297          | 132              |

```

Sample ID:  500  PPM                      Mode:      TOC
Method:     Boat Sampler                   Filename:  04191720
Cal. Curve: 041911 BOAT CAL               Timestamp: 2011/04/19 17:23
Operator ID: TRINA                        Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 6064090  | 50.604             | 51.603          | 115              |

```

Sample ID:  1000 PPM                      Mode:      TOC
Method:     Boat Sampler                   Filename:  04191730
Cal. Curve: 041911 BOAT CAL               Timestamp: 2011/04/19 17:33
Operator ID: TRINA                        Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 12427234 | 50.569             | 51.567          | 154              |

```

Sample ID:  1000 PPM                      Mode:      TOC
Method:     Boat Sampler                   Filename:  04191740
Cal. Curve: 041911 BOAT CAL               Timestamp: 2011/04/19 17:44
Operator ID: TRINA                        Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|       |       |      |          |                    |                 |                  |

1 12531159 50.184 51.182 164

Sample ID: 2500 PPM Mode: TOC  
Method: Boat Sampler Filename: 04191748  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 17:52  
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 31033376 | 50.475                | 51.469             | 190                 |

Last Message: Over-range

Sample ID: 2500 PPM Mode: TOC  
Method: Boat Sampler Filename: 04191758  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 18:04  
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 31980592 | 49.823                | 50.820             | 230                 |

Last Message: Over-range

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04191817  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 18:21  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1072.8492 | 42.9140 | 13291597 | 50.282                | 51.281             | 156                 |

**TOC, Solids Data Analysis**

Instrument: Apollo 2  
 Mode: NPOC Inlet: Boat  
 Spike Std = 2,500 ppm C

DATE: 4/28/2011  
 ANALYST: KE 10:14

**Calibration Data**

Cal Curve ID: 41911 BOAT CAL Conc: 5,000 ppm  
 Calibration Curve Standard: ARI # 00115 - 7 Curve Date: 04/19/11  
 CalFact: 3.116E+05 intercept: -80028 r2: 0.99955  
 Curve Range (ppm) 200 to 2,500  
 Curve Range (µgC): 8 to 100 40 µL injections of designated standard

**Verification Standard**

Source: ERA# 0513 - 10 - 06 Conc: 5,000 ppm  
 dilution: 10 mL to 50 1,000 ppm

**Standard Reference Material**

Source: NIST 8704 Conc: 33,510 ppm  
 Source: NIST 1941B Conc: 29,900 ppm

**Silica Blanks**

| Replicate determinations |      |      |      |  | Mean | RSD   | condition |
|--------------------------|------|------|------|--|------|-------|-----------|
| 32.1                     | 25.6 | 17.1 | 29.4 |  | 26.1 | 25.0% | OK        |

**Sample Data**

"C corr" (with dilution) = ("C obs" - (Mean silica Blank \* %Silica)) \* Dilution Factor

| Sample ID   | Dilution Data   |                |            |                 | Spike (µL Std) | Combustion Data |               |                | comments         |
|---|-----------------|----------------|------------|-----------------|----------------|-----------------|---------------|----------------|------------------|
|   | Sample wt. (mg) | Final wt. (mg) | Silica (%) | Dilution Factor |                | Burn wt. (mg)   | C obs (ppm C) | C corr (ppm C) |                  |
| ICV   |                 |                |            | 1.00            |                | 40.0            | 914           | 914            | 91.40%           |
| Blank   |                 |                |            | 1.00            |                | 40.0            | 11.21         | 11             | Blank OK         |
| NIST 1941B  |                 |                | -          | 4.00            |                | 3.9             | 34744         | 34,744         | Offscale, dilute |
| NIST 1941B  |                 |                |            | 1.00            |                | 2.5             | 28906         | 28,906         | 96.68%           |
| Silica Blanks 1                                   |                 |                |            | 1.00            |                | 52.9            | 32.11         | 32             | Low Scale        |
| Silica Blanks 2                                   |                 |                |            | 1.00            |                | 50.3            | 25.60         | 26             | Low Scale        |
| Silica Blanks 3                                   |                 |                |            | 1.00            |                | 51.6            | 17.14         | 17             | Low Scale        |
| Silica Blanks 4                                   |                 |                |            | 1.00            |                | 53.6            | 29.35         | 29             | Low Scale        |
| SS71 P6   |                 |                |            | 1.00            |                | 4.3             | 6763          | 6,763          | Range OK!        |
| SS71 Q6   |                 |                |            | 1.00            |                | 3.9             | 6329          | 6,329          | Range OK!        |
| SS71 R6   |                 |                |            | 1.00            |                | 4.8             | 6421          | 6,421          | Range OK!        |
| SS71 S6   |                 |                |            | 1.00            |                | 4.3             | 9960          | 9,960          | Range OK!        |
| CCV   |                 |                |            | 1.00            |                | 40.0            | 957           | 957            | 95.70%           |
| Blank   |                 |                |            | 1.00            |                | 40.0            | 9.73          | 10             | Blank OK         |
| SR72 A2   |                 |                | -          | 4.00            |                | 4.5             | 27898         | 27,898         | Range OK!        |
| SR72 A2   |                 |                |            | 1.00            |                | 1.5             | 20807         | 20,807         | Range OK!        |
| SR72 A2 dup                                       |                 |                |            | 1.00            |                | 1.6             | 21764         | 21,764         | RPD=4.5%         |
| SR72 A2 trp                                       |                 |                |            | 1.00            |                | 1.4             | 22229         | 22,229         | RSD=3.4%         |
| SR72 A2 ms  |                 |                |            | 1.00            | 10             | 1.1             | 38284         | 38,284         | Range OK!        |
| Spike = 0.025 mg C to 1.1 mg samp= 22,727 ppm 77% |                 |                |            |                 |                |                 |               |                |                  |

| <b>Sample Data</b>  |                    |                   |               |                    |                         |                  |                  |                       |                           |
|---|--------------------|-------------------|---------------|--------------------|-------------------------|------------------|------------------|-----------------------|---------------------------|
| <i>"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor</i> |                    |                   |               |                    |                         |                  |                  |                       |                           |
| Sample ID   | Dilution Data      |                   |               |                    | Spike<br>( $\mu$ L Std) | Combustion Data  |                  |                       | comments                  |
|   | Sample wt.<br>(mg) | Final wt.<br>(mg) | Silica<br>(%) | Dilution<br>Factor |                         | Burn wt.<br>(mg) | C obs<br>(ppm C) | C corr<br>(ppm C)     |                           |
| SR72 B2   |                    |                   |               | 1.00               |                         | 1.1              | 8838             | 8,838                 | Range OK!                 |
| SR72 C2   | 47.1               | 252.1             | 81.32%        | 5.35               |                         | 2.3              | 18525            | 99,041                | Range OK!                 |
| SR72 D2   |                    |                   |               | 1.00               |                         | 1.1              | 48394            | 48,394                | Range OK!                 |
| SR72 E2   |                    |                   |               | 1.00               |                         | 1.3              | 32488            | 32,488                | Range OK!                 |
| <del>ST56 A2</del>  |                    |                   | -             | <del>1.00</del>    |                         | <del>2.7</del>   | <del>2.54</del>  | <del>boat stuck</del> | <del>Inject deleted</del> |
| ST56 A2   |                    |                   |               | 1.00               |                         | 4.8              | 3462             | 3,462                 | Range OK!                 |
| CCV   |                    |                   |               | 1.00               |                         | 40.0             | 947              | 947                   | 94.70%                    |
| Blank   |                    |                   |               | 1.00               |                         | 40.0             | 8.99             | 9                     | Blank OK                  |
| ST56 B2   |                    |                   |               | 1.00               |                         | 3.4              | 8333             | 8,333                 | Range OK!                 |
| <del>SS47 A1</del>  |                    |                   | -             | <del>1.00</del>    |                         | <del>0.9</del>   | <del>74447</del> | <del>74,447</del>     | <del>Range OK!</del>      |
| NIST 1941B  |                    |                   |               | 1.00               |                         | 2.5              | 28117            | 28,117                | 94.04%                    |
| CCV   |                    |                   |               | 1.00               |                         | 40.0             | 934              | 934                   | 93.40%                    |
| Blank   |                    |                   |               | 1.00               |                         | 40.0             | 16.55            | 17                    | Blank OK                  |



① 4-28-11 (W)

TOC Solids Sample Run Log  
Apollo 9000

Page 1 of 1

|  |                       |                             |
|--|-----------------------|-----------------------------|
| Set-Up Parameters MODE: <i>NPOC (Bout)</i> |                       | INLET: <i>Bout Sampler</i>  |
| Standards:                                 | Source                | Conc (ppm)                  |
| Calibration:                               | <i>ARI 0016-7</i>     | <i>5000</i>                 |
| Verification:                              | <i>ERA 0513-10-06</i> | <i>5000 to 1000 for CUS</i> |
| SRM:                                       | <i>NBS 1941 B</i>     | <i>29900</i>                |

10:19

Sample Sequence:

| Sample ID                  | Dilution Data (mg)     |                         | Burn Wt               | Matrix Spike Data |           | Comments                |
|----------------------------|------------------------|-------------------------|-----------------------|-------------------|-----------|-------------------------|
|                            | Sample                 | + Silica Gel            | mg                    | mg/L              | µL added  |                         |
| <i>1CU</i>                 |                        |                         | <i>40</i>             |                   |           |                         |
| <i>1CB</i>                 |                        |                         | <i>40</i>             |                   |           |                         |
| <i>NBS 1941 B</i>          |                        |                         | <i>3.9</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>2.5</i>            |                   |           |                         |
| <i>SB 1</i>                |                        |                         | <i>52.9</i>           |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>50.3</i>           |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>51.6</i>           |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>53.6</i>           |                   |           |                         |
| <i>5371 P6</i>             |                        |                         | <i>4.3</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>3.9</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>4.8</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>4.3</i>            |                   |           |                         |
| <i>CCU</i>                 |                        |                         | <i>40</i>             |                   |           |                         |
| <i>CCB</i>                 |                        |                         | <i>40</i>             |                   |           |                         |
| <del><i>STS6 A2</i></del>  |                        |                         | <del><i>1.5</i></del> |                   |           |                         |
| <del><i>↓ B2</i></del>     |                        |                         | <del><i>1.6</i></del> |                   |           |                         |
| <del><i>BR72 DC2</i></del> | <del><i>47.1</i></del> | <del><i>252.1</i></del> | <del><i>1.5</i></del> |                   |           |                         |
| <i>ST72 A2</i>             |                        |                         | <i>1.5</i>            |                   |           | <i>wrong # injected</i> |
| <i>↓</i>                   |                        |                         | <i>1.6</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>1.5</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>1.4</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>1.1</i>            | <i>2500</i>       | <i>10</i> |                         |
| <i>↓</i>                   |                        |                         | <i>1.1</i>            |                   |           |                         |
| <i>↓</i>                   | <i>47.1</i>            | <i>252.1</i>            | <i>2.3</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>1.1</i>            |                   |           |                         |
| <i>↓</i>                   |                        |                         | <i>1.3</i>            |                   |           |                         |
| <i>STS6 A3</i>             |                        |                         | <i>+ 2.7/48</i>       |                   |           | <i>miss injected</i>    |
| <i>CCU</i>                 |                        |                         | <i>40</i>             |                   |           |                         |
| <i>CCB</i>                 |                        |                         | <i>40</i>             |                   |           |                         |
| <i>STS6 B3</i>             |                        |                         | <i>3.4</i>            |                   |           |                         |
| <i>5547 A1</i>             |                        |                         | <i>0A</i>             |                   |           |                         |
| <i>↑ ↑ ↑</i>               |                        |                         | <i>25/40/40</i>       |                   |           |                         |

4-28-11 (10)

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04281048  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 10:51  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 914.3115 | 36.5725 | 11315637 | 36.442             | 37.442          | 121              |

Sample ID: ICB BOAT Mode: TOC  
Method: Boat Sampler Filename: 04281143  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 11:44  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 11.2084 | 0.4483 | 59670    | 34.563             | 35.550          | 48               |

Sample ID: NBS 1941B Mode: TOC  
Method: Boat Sampler Filename: 04281150  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 11:54  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C     | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|----------|----------|--------------------|-----------------|------------------|
| 1     | 34743.9844 | 100.7576 | 31315164 | 34.401             | 35.396          | 177              |

Last Message: Over-range

Sample ID: NBS 1941B Mode: TOC  
Method: Boat Sampler Filename: 04281214  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 12:17  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 28906.1836 | 72.2655 | 22437270 | 33.849             | 34.845          | 166              |

Sample ID: SB 1 Mode: TOC  
Method: Boat Sampler Filename: 04281243  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 12:46  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 32.1095 | 1.6986 | 529267   | 33.290             | 34.280          | 65               |

Sample ID: SB 2 Mode: TOC  
Method: Boat Sampler Filename: 04281301  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 13:03  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 25.5902 | 1.2872 | 401077   | 32.801             | 33.792          | 66               |

Sample ID: SB 3 Mode: TOC  
Method: Boat Sampler Filename: 04281312  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 13:15  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|-------|-------|------|----------|--------------------|-----------------|------------------|

|   |         |        |        |        |        |    |
|---|---------|--------|--------|--------|--------|----|
| 1 | 17.1417 | 0.8845 | 275607 | 32.454 | 33.446 | 58 |
|---|---------|--------|--------|--------|--------|----|

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Sample ID: SB 4  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04281340  
 Timestamp: 2011/04/28 13:43  
 Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 29.3517 | 1.5733 | 490212   | 31.994                | 32.982             | 63                  |

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Sample ID: SS71 P6  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04281348  
 Timestamp: 2011/04/28 13:51  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 6763.0400 | 29.0811 | 9061413  | 31.735                | 32.733             | 130                 |

---

Sample ID: SS71 Q6  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04281356  
 Timestamp: 2011/04/28 13:59  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 6329.1094 | 24.6835 | 7691175  | 31.646                | 32.645             | 125                 |

---

Sample ID: SS71 R6  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04281408  
 Timestamp: 2011/04/28 14:15  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 6420.9053 | 30.8203 | 9603356  | 31.518                | 32.517             | 141                 |

---

Sample ID: SS71 S6  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04281453  
 Timestamp: 2011/04/28 14:56  
 Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 9960.3574 | 42.8295 | 13345317 | 31.160                | 32.156             | 150                 |

---

Sample ID: CVS BOAT 1000  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04281459  
 Timestamp: 2011/04/28 15:02  
 Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 957.2663 | 38.2907 | 11851012 | 31.263                | 32.262             | 130                 |

---

Sample ID: ICB BOAT  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA  
 Mode: TOC  
 Filename: 04281505  
 Timestamp: 2011/04/28 15:07  
 Sample Type: Cal. Verification

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 9.7336 | 0.3893 | 41289    | 31.256                | 32.256             | 41                  |

Sample ID: SS71 A2 Mode: TOC  
 Method: Boat Sampler Filename: 04281510  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 15:14  
 Operator ID: TRINA Sample Type: Sample

*Handwritten:* 27-28-11

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 27898.3398 | 41.8475 | 13039326 | 31.103             | 32.102          | 137              |

Sample ID: SS71 A2 Mode: TOC  
 Method: Boat Sampler Filename: 04281518  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 15:22  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 20807.2363 | 33.2916 | 10373370 | 31.314             | 32.313          | 138              |

Sample ID: SS71 A2 DUP Mode: TOC  
 Method: Boat Sampler Filename: 04281532  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 15:35  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 21763.7305 | 32.6456 | 10172088 | 31.691             | 32.689          | 131              |

Sample ID: SS71 A2 ~~DUP~~ Mode: TOC  
 Method: Boat Sampler Filename: 04281541  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 15:44  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 22229.3730 | 31.1211 | 9697075  | 32.254             | 33.249          | 147              |

Sample ID: SS71 A2 MS Mode: TOC  
 Method: Boat Sampler Filename: 04281549  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 15:52  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 38283.8555 | 42.1122 | 13121814 | 33.343             | 34.341          | 137              |

Sample ID: SR72 B2 Mode: TOC  
 Method: Boat Sampler Filename: 04281557  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 16:00  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|--------|----------|--------------------|-----------------|------------------|
| 1     | 8837.7754 | 9.7216 | 3029153  | 33.706             | 34.704          | 97               |

Sample ID: SR72 C2 Mode: TOC  
 Method: Boat Sampler Filename: 04281605  
 Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 16:09  
 Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 18525.0312 | 42.6076 | 13276154 | 33.977             | 34.975          | 142              |



Sample ID: SR72 D2 Mode: TOC  
Method: Boat Sampler Filename: 04281625  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 16:29  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 48393.5156 | 53.2329 | 16586906 | 33.532                | 34.530             | 149                 |

Sample ID: SR72 E2 Mode: TOC  
Method: Boat Sampler Filename: 04281633  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 16:37  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|------------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 32488.2930 | 42.2348 | 13159996 | 33.347                | 34.342             | 140                 |

Sample ID: ST56 A2 Mode: TOC  
Method: Boat Sampler Filename: 04281649  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 16:53  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 2.5410 | 0.0069 | 2138     | 32.737                | 32.755             | 120                 |

Last Message: Low Sample Detected

Sample ID: ST56 A2 AL 4-28-11 (W) Mode: TOC  
Method: Boat Sampler Filename: 04281700  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 17:03  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 3462.3284 | 16.6192 | 5178393  | 32.534                | 33.528             | 117                 |

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04281708  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 17:11  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 947.0733 | 37.8829 | 11723969 | 32.694                | 33.692             | 124                 |

Sample ID: ICB BOAT Mode: TOC  
Method: Boat Sampler Filename: 04281718  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 17:23  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 8.9907 | 0.3596 | 32030    | 32.300                | 32.159             | 120                 |

Last Message: Low Sample Detected

Sample ID: ST56 B2 Mode: TOC  
Method: Boat Sampler Filename: 04281725  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/28 17:30  
Operator ID: TRINA Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning | Ending | Integration |
|-------|-------|------|----------|-----------|--------|-------------|
|-------|-------|------|----------|-----------|--------|-------------|

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 8333.0195 | 28.3323 | 8828091  | 32.100             | 33.098          | 126              |

Sample ID: SS47 A1  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA

Mode: TOC  
 Filename: 04281734  
 Timestamp: 2011/04/28 17:39  
 Sample Type: Sample

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 74446.8281 | 67.0021 | 20877296 | 32.153             | 33.151          | 175              |

Sample ID: NBS 1941B  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA

Mode: TOC  
 Filename: 04281759  
 Timestamp: 2011/04/28 18:03  
 Sample Type: Cal. Verification

| Rep # | ppm C      | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|------------|---------|----------|--------------------|-----------------|------------------|
| 1     | 28117.1328 | 70.2928 | 21822616 | 34.362             | 35.362          | 185              |

Sample ID: CVS BOAT 1000  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA

Mode: TOC  
 Filename: 04281809  
 Timestamp: 2011/04/28 18:12  
 Sample Type: Cal. Verification

| Rep # | ppm C    | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 934.3418 | 37.3737 | 11565288 | 35.359             | 36.358          | 123              |

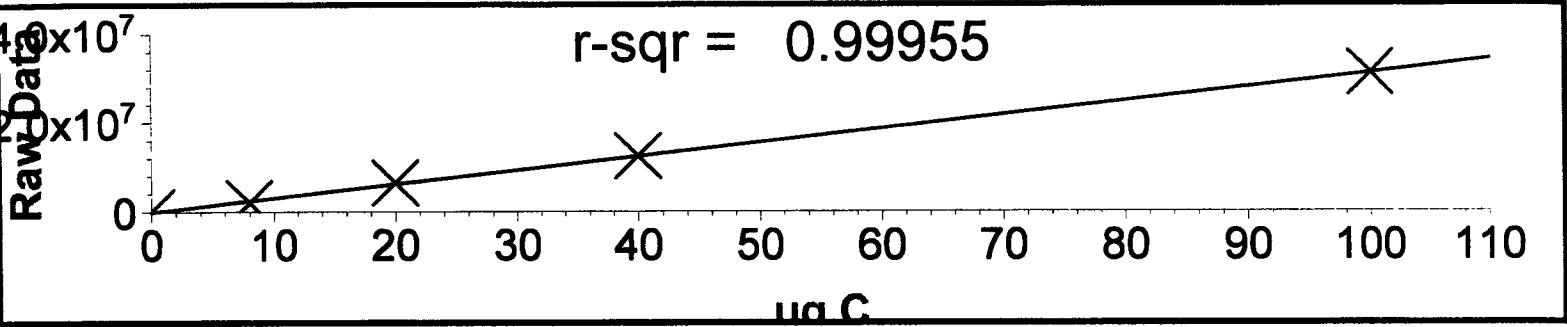
Sample ID: ICB BOAT  
 Method: Boat Sampler  
 Cal. Curve: 041911 BOAT CAL  
 Operator ID: TRINA

Mode: TOC  
 Filename: 04281823  
 Timestamp: 2011/04/28 18:29  
 Sample Type: Cal. Verification

| Rep # | ppm C   | ug C   | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|---------|--------|----------|--------------------|-----------------|------------------|
| 1     | 16.5513 | 0.6621 | 126262   | 34.465             | 35.451          | 54               |

Cal. Curve ID: 041911 BOAT CAL  
 Created: 2011/04/19 18:06  
 Calibration Factor (m): 3.116e+05  
 Y Intercept (b): -80028  
 r-squared: 0.99955

| Standard ID | Y<br>Raw Data | X Expected<br>ug C | Measured<br>ug C | Message       | Date &<br>Time   |
|-------------|---------------|--------------------|------------------|---------------|------------------|
| DI WATER    | 30053         | 0.000              | 0.353            | Low Sample De | 2011/04/19 16:52 |
| 200 PPM     | 1996979       | 8.000              | 6.666            |               | 2011/04/19 16:57 |
| 500 PPM     | 6459582       | 20.000             | 20.988           |               | 2011/04/19 17:12 |
| 1000 PPM    | 12427234      | 40.000             | 40.140           |               | 2011/04/19 17:33 |
| 2500 PPM    | 31033376      | 100.000            | 99.853           | Over-range    | 2011/04/19 17:52 |



```

=====
Sample ID:  DI WATER          Mode:      TOC
Method:     Boat Sampler      Filename:   04191649
Cal. Curve: 041911 BOAT CAL   Timestamp: 2011/04/19 16:52
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 30053    | 49.055             | 49.144          | 120              |

Last Message: Low Sample Detected

```

=====
Sample ID:  200    PPM          Mode:      TOC
Method:     Boat Sampler      Filename:   04191655
Cal. Curve: 041911 BOAT CAL   Timestamp: 2011/04/19 16:57
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 1996979  | 49.493             | 50.490          | 67               |

```

=====
Sample ID:  500    PPM          Mode:      TOC
Method:     Boat Sampler      Filename:   04191701
Cal. Curve: 041911 BOAT CAL   Timestamp: 2011/04/19 17:05
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 4483189  | 49.954             | 50.952          | 96               |

```

=====
Sample ID:  500    PPM          Mode:      TOC
Method:     Boat Sampler      Filename:   04191707
Cal. Curve: 041911 BOAT CAL   Timestamp: 2011/04/19 17:12
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 6459582  | 50.297             | 51.297          | 132              |

```

=====
Sample ID:  500    PPM          Mode:      TOC
Method:     Boat Sampler      Filename:   04191720
Cal. Curve: 041911 BOAT CAL   Timestamp: 2011/04/19 17:23
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 6064090  | 50.604             | 51.603          | 115              |

```

=====
Sample ID:  1000   PPM          Mode:      TOC
Method:     Boat Sampler      Filename:   04191730
Cal. Curve: 041911 BOAT CAL   Timestamp: 2011/04/19 17:33
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 12427234 | 50.569             | 51.567          | 154              |

```

=====
Sample ID:  1000   PPM          Mode:      TOC
Method:     Boat Sampler      Filename:   04191740
Cal. Curve: 041911 BOAT CAL   Timestamp: 2011/04/19 17:44
Operator ID: TRINA           Sample Type: TOC Standard
    
```

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
|       |       |      |          |                    |                 |                  |

1 12531159 50.184 51.182 164

Sample ID: 2500 PPM Mode: TOC  
Method: Boat Sampler Filename: 04191748  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 17:52  
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 31033376 | 50.475             | 51.469          | 190              |

Last Message: Over-range

Sample ID: 2500 PPM Mode: TOC  
Method: Boat Sampler Filename: 04191758  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 18:04  
Operator ID: TRINA Sample Type: TOC Standard

| Rep # | ppm C | ug C | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-------|------|----------|--------------------|-----------------|------------------|
| 1     |       |      | 31980592 | 49.823             | 50.820          | 230              |

Last Message: Over-range

Sample ID: CVS BOAT 1000 Mode: TOC  
Method: Boat Sampler Filename: 04191817  
Cal. Curve: 041911 BOAT CAL Timestamp: 2011/04/19 18:21  
Operator ID: TRINA Sample Type: Cal. Verification

| Rep # | ppm C     | ug C    | Raw Data | Beginning Baseline | Ending Baseline | Integration Time |
|-------|-----------|---------|----------|--------------------|-----------------|------------------|
| 1     | 1072.8492 | 42.9140 | 13291597 | 50.282             | 51.281          | 156              |

April 21, 2011

Ms. Sue Dunninghoo  
Analytical Resources Incorporated  
4611 South 134<sup>th</sup> Place  
Tukwila, WA 98168-3240

Dear Ms. Dunninghoo,

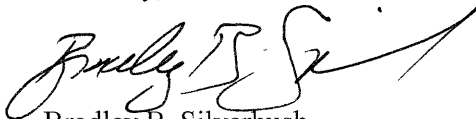
Enclosed are the results for Frontier Analytical Laboratory project **6701**. This corresponds to your **Lora Lake Surface Sediment Sampling** project under ARI project number **SP34**. One aqueous sample and nine sediment samples were received on 3/31/2011 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. As per your email request dated 3/31/2011, a matrix spike (MS) and matrix spike duplicate (MSD) were performed on sample 6701-002-SA (ARI Sample ID: LL-SED2-0-15-032911). Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen business days for project **6701**.

Please note that due to high concentrations of several isomers, the extracts from samples 6701-001-SA, 6701-002-SA, 6701-003-SA, 6701-004-SA and 6701-005-SA (ARI sample IDs: LL-SED1-0-15-032911, LL-SED2-0-15-032911, LL-SED3-0-15-032911, LL-SED4-0-15-032911 and LL-SED1-0-15-032911-D respectively) were diluted and reanalyzed. The results taken from the analysis of the diluted extracts have been identified with a "\*" qualifier on their corresponding sample data sheet.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custodies, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet, and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The Level I summary and the Electronic Data Deliverables (EDDs) have been sent to you via email. A hardcopy of the Level IV data package has been sent to you via OnTrac overnight delivery. The enclosed results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6701**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush  
Director of Operations

## Frontier Analytical Laboratory

### Sample Tracking Log

FAL Project ID: 6701

Received on: 03/31/2011

Project Due: 04/22/2011 Storage: R1

| FAL Sample ID | Dup | Client Project ID | Client Sample ID       | Requested Method | Matrix   | Sampling Date | Sampling Time | Hold Time Due Date |
|---------------|-----|-------------------|------------------------|------------------|----------|---------------|---------------|--------------------|
| 6701-001-SA   | 0   | SP34              | LL-SED1-0-15-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 02:05 pm      | 03/28/2012         |
| 6701-002-SA   | 0   | SP34              | LL-SED2-0-15-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 12:00 pm      | 03/28/2012         |
| 6701-002-MS   | 0   | SP34              | LL-SED2-0-15-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 12:00 pm      | 03/28/2012         |
| 6701-002-MSD  | 0   | SP34              | LL-SED2-0-15-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 12:00 pm      | 03/28/2012         |
| 6701-003-SA   | 0   | SP34              | LL-SED3-0-15-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 11:10 am      | 03/28/2012         |
| 6701-004-SA   | 0   | SP34              | LL-SED4-0-15-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 01:10 pm      | 03/28/2012         |
| 6701-005-SA   | 0   | SP34              | LL-SED1-0-15-032911-D  | EPA 1613 D/F     | Sediment | 03/29/2011    | 02:05 pm      | 03/28/2012         |
| 6701-006-SA   | 0   | SP34              | LL-SED5-0-15-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 03:10 pm      | 03/28/2012         |
| 6701-007-SA   | 0   | SP34              | MC-SED1-0-10-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 04:50 pm      | 03/28/2012         |
| 6701-008-SA   | 0   | SP34              | MC-SED2-0-10-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 04:35 pm      | 03/28/2012         |
| 6701-009-SA   | 0   | SP34              | MC-SED3-0-10-032911    | EPA 1613 D/F     | Sediment | 03/29/2011    | 04:15 pm      | 03/28/2012         |
| 6701-010-SA   | 1   | SP34              | LL-SED1-0-15-032911-ER | EPA 1613 D/F     | Aqueous  | 03/29/2011    | 03:50 pm      | 03/28/2012         |



EPA Method 1613  
PCDD/F



FAL ID: 6701-001-MB  
Client ID: Method Blank  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: NA  
Amount: 5.00 g

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-20-2011  
2005 WHO TEQ: 0.00

| Compound            | Conc | DL    | Qual | 2005 WHO Tox | MDL    | Compound    | Conc | DL    | Qual |
|---------------------|------|-------|------|--------------|--------|-------------|------|-------|------|
| 2,3,7,8-TCDD        | ND   | 0.140 |      | -            | 0.0259 |             |      |       |      |
| 1,2,3,7,8-PeCDD     | ND   | 0.208 |      | -            | 0.0434 |             |      |       |      |
| 1,2,3,4,7,8-HxCDD   | ND   | 0.223 |      | -            | 0.0467 |             |      |       |      |
| 1,2,3,6,7,8-HxCDD   | ND   | 0.292 |      | -            | 0.0587 | Total TCDD  | ND   | 0.140 |      |
| 1,2,3,7,8,9-HxCDD   | ND   | 0.251 |      | -            | 0.0529 | Total PeCDD | ND   | 0.208 |      |
| 1,2,3,4,6,7,8-HpCDD | ND   | 0.398 |      | -            | 0.0742 | Total HxCDD | ND   | 0.292 |      |
| OCDD                | ND   | 0.956 |      | -            | 0.144  | Total HpCDD | ND   | 0.398 |      |
| 2,3,7,8-TCDF        | ND   | 0.114 |      | -            | 0.0200 |             |      |       |      |
| 1,2,3,7,8-PeCDF     | ND   | 0.159 |      | -            | 0.0304 |             |      |       |      |
| 2,3,4,7,8-PeCDF     | ND   | 0.179 |      | -            | 0.0322 |             |      |       |      |
| 1,2,3,4,7,8-HxCDF   | ND   | 0.183 |      | -            | 0.0365 |             |      |       |      |
| 1,2,3,6,7,8-HxCDF   | ND   | 0.180 |      | -            | 0.0357 |             |      |       |      |
| 2,3,4,6,7,8-HxCDF   | ND   | 0.214 |      | -            | 0.0399 |             |      |       |      |
| 1,2,3,7,8,9-HxCDF   | ND   | 0.182 |      | -            | 0.0386 | Total TCDF  | ND   | 0.114 |      |
| 1,2,3,4,6,7,8-HpCDF | ND   | 0.270 |      | -            | 0.0393 | Total PeCDF | ND   | 0.179 |      |
| 1,2,3,4,7,8,9-HpCDF | ND   | 0.317 |      | -            | 0.0418 | Total HxCDF | ND   | 0.214 |      |
| OCDF                | ND   | 0.475 |      | -            | 0.105  | Total HpCDF | ND   | 0.317 |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 72.6  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 63.4  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 74.4  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 77.6  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 90.2  | 23.0 - 140 |      |
| 13C-OCDD                | 64.6  | 17.0 - 157 |      |
| 13C-2,3,7,8-TCDF        | 78.3  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 75.8  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 70.6  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 82.0  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 81.4  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 72.5  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 77.5  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 87.9  | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 103   | 26.0 - 138 |      |
| 13C-OCDF                | 69.6  | 17.0 - 157 |      |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 66.1 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: J  
Date: 4/21/11

Reviewed By: JN  
Date: 4/21/11

# EPA Method 1613 PCDD/F



FAL ID: 6701-001-OPR  
Client ID: OPR  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: NA  
Amount: 5.00 g

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: ng/ml

Acquired: 04-20-2011  
2005 WHO TEQ: NA

| Compound            | Conc | QC Limits   | Qual |
|---------------------|------|-------------|------|
| 2,3,7,8-TCDD        | 8.39 | 6.70 - 15.8 |      |
| 1,2,3,7,8-PeCDD     | 51.2 | 35.0 - 71.0 |      |
| 1,2,3,4,7,8-HxCDD   | 50.1 | 35.0 - 82.0 |      |
| 1,2,3,6,7,8-HxCDD   | 49.6 | 38.0 - 67.0 |      |
| 1,2,3,7,8,9-HxCDD   | 50.9 | 32.0 - 81.0 |      |
| 1,2,3,4,6,7,8-HpCDD | 47.8 | 35.0 - 70.0 |      |
| OCDD                | 96.2 | 78.0 - 144  |      |

|                     |      |             |  |
|---------------------|------|-------------|--|
| 2,3,7,8-TCDF        | 10.2 | 7.50 - 15.8 |  |
| 1,2,3,7,8-PeCDF     | 50.8 | 40.0 - 67.0 |  |
| 2,3,4,7,8-PeCDF     | 50.4 | 34.0 - 80.0 |  |
| 1,2,3,4,7,8-HxCDF   | 47.7 | 36.0 - 67.0 |  |
| 1,2,3,6,7,8-HxCDF   | 48.7 | 42.0 - 65.0 |  |
| 2,3,4,6,7,8-HxCDF   | 47.6 | 35.0 - 78.0 |  |
| 1,2,3,7,8,9-HxCDF   | 49.4 | 39.0 - 65.0 |  |
| 1,2,3,4,6,7,8-HpCDF | 47.2 | 41.0 - 61.0 |  |
| 1,2,3,4,7,8,9-HpCDF | 48.0 | 39.0 - 69.0 |  |
| OCDF                | 89.4 | 63.0 - 170  |  |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 88.8  | 20.0 - 175 |      |
| 13C-1,2,3,7,8-PeCDD     | 77.8  | 21.0 - 227 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 89.5  | 21.0 - 193 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 94.9  | 25.0 - 163 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 111   | 26.0 - 166 |      |
| 13C-OCDD                | 86.8  | 13.0 - 198 |      |
| 13C-2,3,7,8-TCDF        | 93.8  | 22.0 - 152 |      |
| 13C-1,2,3,7,8-PeCDF     | 90.5  | 21.0 - 192 |      |
| 13C-2,3,4,7,8-PeCDF     | 90.7  | 13.0 - 328 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 95.9  | 19.0 - 202 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 95.2  | 21.0 - 159 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 94.6  | 22.0 - 176 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 96.8  | 17.0 - 205 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 105   | 21.0 - 158 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 127   | 20.0 - 186 |      |
| 13C-OCDF                | 93.0  | 13.0 - 198 |      |

Cleanup Surrogate

|                   |      |            |  |
|-------------------|------|------------|--|
| 37Cl-2,3,7,8-TCDD | 78.1 | 31.0 - 191 |  |
|-------------------|------|------------|--|

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: *JD*  
Date: *4/21/11*

Reviewed By: *DN*  
Date: *4/21/11*

EPA Method 1613  
PCDD/F



FAL ID: 6701-001-MB  
Client ID: Method Blank  
Matrix: Aqueous  
Batch No: X2265

Date Extracted: 04-07-2011  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/L

Acquired: 04-08-2011  
2005 WHO TEQ: 0.00

| Compound            | Conc | DL    | Qual | 2005 WHO Tox | MDL   | Compound    | Conc | DL    | Qual |
|---------------------|------|-------|------|--------------|-------|-------------|------|-------|------|
| 2,3,7,8-TCDD        | ND   | 0.787 |      | -            | 0.215 |             |      |       |      |
| 1,2,3,7,8-PeCDD     | ND   | 0.974 |      | -            | 0.317 |             |      |       |      |
| 1,2,3,4,7,8-HxCDD   | ND   | 1.11  |      | -            | 0.326 |             |      |       |      |
| 1,2,3,6,7,8-HxCDD   | ND   | 1.38  |      | -            | 0.424 | Total TCDD  | ND   | 0.787 |      |
| 1,2,3,7,8,9-HxCDD   | ND   | 1.22  |      | -            | 0.367 | Total PeCDD | ND   | 0.974 |      |
| 1,2,3,4,6,7,8-HpCDD | ND   | 1.15  |      | -            | 0.497 | Total HxCDD | ND   | 1.38  |      |
| OCDD                | ND   | 2.42  |      | -            | 1.41  | Total HpCDD | ND   | 1.15  |      |
| 2,3,7,8-TCDF        | ND   | 0.538 |      | -            | 0.209 |             |      |       |      |
| 1,2,3,7,8-PeCDF     | ND   | 0.693 |      | -            | 0.235 |             |      |       |      |
| 2,3,4,7,8-PeCDF     | ND   | 0.682 |      | -            | 0.243 |             |      |       |      |
| 1,2,3,4,7,8-HxCDF   | ND   | 0.797 |      | -            | 0.255 |             |      |       |      |
| 1,2,3,6,7,8-HxCDF   | ND   | 0.737 |      | -            | 0.248 |             |      |       |      |
| 2,3,4,6,7,8-HxCDF   | ND   | 0.755 |      | -            | 0.262 |             |      |       |      |
| 1,2,3,7,8,9-HxCDF   | ND   | 0.749 |      | -            | 0.258 | Total TCDF  | ND   | 0.538 |      |
| 1,2,3,4,6,7,8-HpCDF | ND   | 1.02  |      | -            | 0.324 | Total PeCDF | ND   | 0.693 |      |
| 1,2,3,4,7,8,9-HpCDF | ND   | 1.45  |      | -            | 0.490 | Total HxCDF | ND   | 0.797 |      |
| OCDF                | ND   | 1.53  |      | -            | 0.805 | Total HpCDF | ND   | 1.45  |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 94.3  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 89.9  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 83.1  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 99.3  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 107   | 23.0 - 140 |      |
| 13C-OCDD                | 92.3  | 17.0 - 157 |      |
| 13C-2,3,7,8-TCDF        | 104   | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 106   | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 108   | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 86.1  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 94.3  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 92.9  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 93.4  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 102   | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 107   | 26.0 - 138 |      |
| 13C-OCDF                | 94.6  | 17.0 - 157 |      |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 89.2 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 4/11/11

Reviewed By: [Signature]  
Date: 4/11/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-001-OPR  
Client ID: OPR  
Matrix: Aqueous  
Batch No: X2265

Date Extracted: 04-07-2011  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: ng/ml

Acquired: 04-08-2011  
2005 WHO TEQ: NA

| Compound            | Conc | QC Limits   | Qual |
|---------------------|------|-------------|------|
| 2,3,7,8-TCDD        | 9.60 | 6.70 - 15.8 |      |
| 1,2,3,7,8-PeCDD     | 53.7 | 35.0 - 71.0 |      |
| 1,2,3,4,7,8-HxCDD   | 51.2 | 35.0 - 82.0 |      |
| 1,2,3,6,7,8-HxCDD   | 53.1 | 38.0 - 67.0 |      |
| 1,2,3,7,8,9-HxCDD   | 55.9 | 32.0 - 81.0 |      |
| 1,2,3,4,6,7,8-HpCDD | 51.7 | 35.0 - 70.0 |      |
| OCDD                | 110  | 78.0 - 144  |      |
|                     |      |             |      |
| 2,3,7,8-TCDF        | 11.2 | 7.50 - 15.8 |      |
| 1,2,3,7,8-PeCDF     | 54.5 | 40.0 - 67.0 |      |
| 2,3,4,7,8-PeCDF     | 54.0 | 34.0 - 80.0 |      |
| 1,2,3,4,7,8-HxCDF   | 52.8 | 36.0 - 67.0 |      |
| 1,2,3,6,7,8-HxCDF   | 53.7 | 42.0 - 65.0 |      |
| 2,3,4,6,7,8-HxCDF   | 52.6 | 35.0 - 78.0 |      |
| 1,2,3,7,8,9-HxCDF   | 53.3 | 39.0 - 65.0 |      |
| 1,2,3,4,6,7,8-HpCDF | 51.3 | 41.0 - 61.0 |      |
| 1,2,3,4,7,8,9-HpCDF | 52.1 | 39.0 - 69.0 |      |
| OCDF                | 102  | 63.0 - 170  |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 94.0  | 20.0 - 175 |      |
| 13C-1,2,3,7,8-PeCDD     | 79.5  | 21.0 - 227 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 68.5  | 21.0 - 193 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 76.3  | 25.0 - 163 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 83.3  | 26.0 - 166 |      |
| 13C-OCDD                | 74.1  | 13.0 - 198 |      |
|                         |       |            |      |
| 13C-2,3,7,8-TCDF        | 99.2  | 22.0 - 152 |      |
| 13C-1,2,3,7,8-PeCDF     | 90.8  | 21.0 - 192 |      |
| 13C-2,3,4,7,8-PeCDF     | 95.8  | 13.0 - 328 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 72.0  | 19.0 - 202 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 75.0  | 21.0 - 159 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 78.7  | 22.0 - 176 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 74.3  | 17.0 - 205 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 83.6  | 21.0 - 158 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 84.1  | 20.0 - 186 |      |
| 13C-OCDF                | 75.2  | 13.0 - 198 |      |

Cleanup Surrogate

|                   |      |            |  |
|-------------------|------|------------|--|
| 37Cl-2,3,7,8-TCDD | 95.3 | 31.0 - 191 |  |
|-------------------|------|------------|--|

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 4/11/11

Reviewed By: [Signature]  
Date: 4/11/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-001-SA  
Client ID: LL-SED1-0-15-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 3.28 g  
% Solids: 20.00

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-21-2011  
2005 WHO TEQ: 193

| Compound            | Conc  | DL | Qual | 2005 WHO Tox | MDL    | Compound    | Conc  | DL | Qual |
|---------------------|-------|----|------|--------------|--------|-------------|-------|----|------|
| 2,3,7,8-TCDD        | 4.31  | -  |      | 4.31         | 0.0259 |             |       |    |      |
| 1,2,3,7,8-PeCDD     | 20.7  | -  |      | 20.7         | 0.0434 |             |       |    |      |
| 1,2,3,4,7,8-HxCDD   | 53.8  | -  |      | 5.38         | 0.0467 |             |       |    |      |
| 1,2,3,6,7,8-HxCDD   | 188   | -  |      | 18.8         | 0.0587 | Total TCDD  | 62.9  | -  |      |
| 1,2,3,7,8,9-HxCDD   | 113   | -  |      | 11.3         | 0.0529 | Total PeCDD | 312   | -  |      |
| 1,2,3,4,6,7,8-HpCDD | 6770  | -  | *    | 67.7         | 0.0742 | Total HxCDD | 1380  | -  |      |
| OCDD                | 68500 | -  | *    | 20.6         | 0.144  | Total HpCDD | 12200 | -  | *    |
| 2,3,7,8-TCDF        | 8.37  | -  | F    | 0.837        | 0.0200 |             |       |    |      |
| 1,2,3,7,8-PeCDF     | 10.5  | -  |      | 0.315        | 0.0304 |             |       |    |      |
| 2,3,4,7,8-PeCDF     | 13.0  | -  |      | 3.90         | 0.0322 |             |       |    |      |
| 1,2,3,4,7,8-HxCDF   | 130   | -  |      | 13.0         | 0.0365 |             |       |    |      |
| 1,2,3,6,7,8-HxCDF   | 42.3  | -  |      | 4.23         | 0.0357 |             |       |    |      |
| 2,3,4,6,7,8-HxCDF   | 56.4  | -  |      | 5.64         | 0.0399 |             |       |    |      |
| 1,2,3,7,8,9-HxCDF   | 11.5  | -  |      | 1.15         | 0.0386 | Total TCDF  | 177   | -  |      |
| 1,2,3,4,6,7,8-HpCDF | 1320  | -  |      | 13.2         | 0.0393 | Total PeCDF | 351   | -  |      |
| 1,2,3,4,7,8,9-HpCDF | 88.7  | -  |      | 0.887        | 0.0418 | Total HxCDF | 1500  | -  | D,M  |
| OCDF                | 3830  | -  |      | 1.15         | 0.105  | Total HpCDF | 4460  | -  |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 65.7  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 61.3  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 65.7  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 63.6  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 91.0  | 23.0 - 140 | *    |
| 13C-OCDD                | 84.5  | 17.0 - 157 | *    |
| 13C-2,3,7,8-TCDF        | 71.9  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 73.8  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 72.2  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 70.3  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 69.0  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 68.8  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 72.7  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 77.1  | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 82.5  | 26.0 - 138 |      |
| 13C-OCDF                | 58.8  | 17.0 - 157 |      |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 60.2 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 4/21/11

Reviewed By: [Signature]  
Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-002-SA  
Client ID: LL-SED2-0-15-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 3.01 g  
% Solids: 14.44

Ical: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-21-2011  
2005 WHO TEQ: 217

| Compound            | Conc  | DL | Qual | 2005 WHO Tox | MDL    | Compound    | Conc  | DL | Qual |
|---------------------|-------|----|------|--------------|--------|-------------|-------|----|------|
| 2,3,7,8-TCDD        | 4.80  | -  |      | 4.80         | 0.0259 |             |       |    |      |
| 1,2,3,7,8-PeCDD     | 25.7  | -  |      | 25.7         | 0.0434 |             |       |    |      |
| 1,2,3,4,7,8-HxCDD   | 60.3  | -  |      | 6.03         | 0.0467 |             |       |    |      |
| 1,2,3,6,7,8-HxCDD   | 217   | -  |      | 21.7         | 0.0587 | Total TCDD  | 78.7  | -  |      |
| 1,2,3,7,8,9-HxCDD   | 135   | -  |      | 13.5         | 0.0529 | Total PeCDD | 403   | -  |      |
| 1,2,3,4,6,7,8-HpCDD | 7500  | -  | *    | 75.0         | 0.0742 | Total HxCDD | 1600  | -  |      |
| OCDD                | 67100 | -  | *    | 20.1         | 0.144  | Total HpCDD | 13200 | -  | *    |
| 2,3,7,8-TCDF        | 10.7  | -  | F    | 1.07         | 0.0200 |             |       |    |      |
| 1,2,3,7,8-PeCDF     | 11.3  | -  |      | 0.339        | 0.0304 |             |       |    |      |
| 2,3,4,7,8-PeCDF     | 18.5  | -  |      | 5.55         | 0.0322 |             |       |    |      |
| 1,2,3,4,7,8-HxCDF   | 139   | -  |      | 13.9         | 0.0365 |             |       |    |      |
| 1,2,3,6,7,8-HxCDF   | 49.0  | -  |      | 4.90         | 0.0357 |             |       |    |      |
| 2,3,4,6,7,8-HxCDF   | 64.4  | -  |      | 6.44         | 0.0399 |             |       |    |      |
| 1,2,3,7,8,9-HxCDF   | 12.2  | -  |      | 1.22         | 0.0386 | Total TCDF  | 229   | -  |      |
| 1,2,3,4,6,7,8-HpCDF | 1480  | -  |      | 14.8         | 0.0393 | Total PeCDF | 422   | -  |      |
| 1,2,3,4,7,8,9-HpCDF | 92.6  | -  |      | 0.926        | 0.0418 | Total HxCDF | 1680  | -  | D,M  |
| OCDF                | 4050  | -  |      | 1.22         | 0.105  | Total HpCDF | 4630  | -  |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 92.0  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 86.5  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 88.2  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 89.7  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 126   | 23.0 - 140 | *    |
| 13C-OCDD                | 116   | 17.0 - 157 | *    |
| 13C-2,3,7,8-TCDF        | 92.1  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 98.0  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 99.0  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 95.0  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 92.8  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 94.9  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 99.7  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 107   | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 114   | 26.0 - 138 |      |
| 13C-OCDF                | 88.3  | 17.0 - 157 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 84.9 35.0 - 197

Analyst: ls  
Date: 4/21/11

Reviewed By: DN  
Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-002-MS/MSD  
Client ID: LL-SED2-0-15-032911  
Matrix: Sediment

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Sample Amount: 3.01 g  
MS Amount: 3.01 g  
MSD Amount: 3.02 g

ICal: PCDDFAL3-3-7-11  
Batch No: X2272  
Units: pg/g

MS Acquired: 2011-04-20  
MSD Acquired: 2011-04-20  
GC Column: DB5

| Compound                  | Amount Spiked (pg) | Sample Amount | MS Amount | MSD Amount | % RSD      | Qual                          |
|---------------------------|--------------------|---------------|-----------|------------|------------|-------------------------------|
| 2,3,7,8-TCDD              | 200                | 4.80          | 59.7      | 59.3       | 1.21       |                               |
| 1,2,3,7,8-PeCDD           | 1000               | 25.7          | 372       | 364        | 1.94       |                               |
| 1,2,3,4,7,8-HxCDD         | 1000               | 60.3          | 400       | 400        | 0.976      |                               |
| 1,2,3,6,7,8-HxCDD         | 1000               | 217           | 554       | 544        | 3.49       |                               |
| 1,2,3,7,8,9-HxCDD         | 1000               | 135           | 492       | 495        | 0.930      |                               |
| 1,2,3,4,6,7,8-HpCDD       | 1000               | 7500          | -         | -          | 0.00       | + + Inappropriate spike level |
| OCDD                      | 2000               | 67100         | -         | -          | 0.00       | +                             |
| 2,3,7,8-TCDF              | 200                | 10.7          | 81.0      | 81.0       | 0.471      |                               |
| 1,2,3,7,8-PeCDF           | 1000               | 11.3          | 344       | 341        | 1.40       |                               |
| 2,3,4,7,8-PeCDF           | 1000               | 18.5          | 370       | 360        | 1.92       |                               |
| 1,2,3,4,7,8-HxCDF         | 1000               | 139           | 484       | 482        | 0.00       |                               |
| 1,2,3,6,7,8-HxCDF         | 1000               | 49.0          | 366       | 371        | 1.97       |                               |
| 2,3,4,6,7,8-HxCDF         | 1000               | 64.4          | 384       | 383        | 0.00       |                               |
| 1,2,3,7,8,9-HxCDF         | 1000               | 12.2          | 332       | 334        | 1.14       |                               |
| 1,2,3,4,6,7,8-HpCDF       | 1000               | 1480          | 1790      | 1800       | 3.14       |                               |
| 1,2,3,4,7,8,9-HpCDF       | 1000               | 92.6          | 393       | 390        | 0.111      |                               |
| OCDF                      | 2000               | 4050          | 4690      | 4690       | 5.13       |                               |
| <b>Internal Standards</b> |                    |               |           |            |            |                               |
|                           |                    | % Rec         | % Rec     | % Rec      | QC Limits  | Qual                          |
| 13C-2,3,7,8-TCDD          | 2000               | 92.0          | 98.8      | 90.5       | 25.0 - 164 |                               |
| 13C-1,2,3,7,8-PeCDD       | 2000               | 86.5          | 90.0      | 85.4       | 25.0 - 181 |                               |
| 13C-1,2,3,4,7,8-HxCDD     | 2000               | 88.2          | 93.2      | 89.0       | 32.0 - 141 |                               |
| 13C-1,2,3,6,7,8-HxCDD     | 2000               | 89.7          | 97.3      | 94.5       | 28.0 - 130 |                               |
| 13C-1,2,3,4,6,7,8-HpCDD   | 2000               | 126           | 126       | 122        | 23.0 - 140 |                               |
| 13C-OCDD                  | 4000               | 116           | 105       | 105        | 17.0 - 157 |                               |
| 13C-2,3,7,8-TCDF          | 2000               | 92.1          | 103       | 99.1       | 24.0 - 169 |                               |
| 13C-1,2,3,7,8-PeCDF       | 2000               | 98.0          | 106       | 100        | 24.0 - 185 |                               |
| 13C-2,3,4,7,8-PeCDF       | 2000               | 99.0          | 107       | 102        | 21.0 - 178 |                               |
| 13C-1,2,3,4,7,8-HxCDF     | 2000               | 95.0          | 101       | 94.8       | 26.0 - 152 |                               |
| 13C-1,2,3,6,7,8-HxCDF     | 2000               | 92.8          | 99.8      | 92.0       | 26.0 - 123 |                               |
| 13C-2,3,4,6,7,8-HxCDF     | 2000               | 94.9          | 101       | 95.1       | 28.0 - 136 |                               |
| 13C-1,2,3,7,8,9-HxCDF     | 2000               | 99.7          | 105       | 100        | 29.0 - 147 |                               |
| 13C-1,2,3,4,6,7,8-HpCDF   | 2000               | 107           | 117       | 109        | 28.0 - 143 |                               |
| 13C-1,2,3,4,7,8,9-HpCDF   | 2000               | 114           | 131       | 122        | 26.0 - 138 |                               |
| 13C-OCDF                  | 4000               | 88.3          | 101       | 101        | 17.0 - 157 |                               |
| <b>Cleanup Surrogate</b>  |                    |               |           |            |            |                               |
| 37Cl-2,3,7,8-TCDD         | 800                | 84.9          | 86.8      | 85.7       | 35.0 - 197 |                               |

Analyst: [Signature]

Date: 4/21/11

Reviewed By: [Signature]

Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-003-SA  
Client ID: LL-SED3-0-15-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 3.14 g  
% Solids: 19.72

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-21-2011  
2005 WHO TEQ: 152

| Compound            | Conc  | DL | Qual | 2005 WHO Tox | MDL    | Compound    | Conc | DL | Qual |
|---------------------|-------|----|------|--------------|--------|-------------|------|----|------|
| 2,3,7,8-TCDD        | 10.4  | -  |      | 10.4         | 0.0259 |             |      |    |      |
| 1,2,3,7,8-PeCDD     | 18.1  | -  |      | 18.1         | 0.0434 |             |      |    |      |
| 1,2,3,4,7,8-HxCDD   | 45.5  | -  |      | 4.55         | 0.0467 |             |      |    |      |
| 1,2,3,6,7,8-HxCDD   | 156   | -  |      | 15.6         | 0.0587 | Total TCDD  | 109  | -  |      |
| 1,2,3,7,8,9-HxCDD   | 81.0  | -  |      | 8.10         | 0.0529 | Total PeCDD | 445  | -  |      |
| 1,2,3,4,6,7,8-HpCDD | 4690  | -  |      | 46.9         | 0.0742 | Total HxCDD | 1590 | -  |      |
| OCDD                | 54600 | -  | *    | 16.4         | 0.144  | Total HpCDD | 9670 | -  |      |
| 2,3,7,8-TCDF        | 14.3  | -  | F    | 1.43         | 0.0200 |             |      |    |      |
| 1,2,3,7,8-PeCDF     | 10.0  | -  |      | 0.300        | 0.0304 |             |      |    |      |
| 2,3,4,7,8-PeCDF     | 13.9  | -  |      | 4.17         | 0.0322 |             |      |    |      |
| 1,2,3,4,7,8-HxCDF   | 60.9  | -  |      | 6.09         | 0.0365 |             |      |    |      |
| 1,2,3,6,7,8-HxCDF   | 30.5  | -  |      | 3.05         | 0.0357 |             |      |    |      |
| 2,3,4,6,7,8-HxCDF   | 44.9  | -  |      | 4.49         | 0.0399 |             |      |    |      |
| 1,2,3,7,8,9-HxCDF   | 7.92  | -  | J    | 0.792        | 0.0386 | Total TCDF  | 293  | -  | D,M  |
| 1,2,3,4,6,7,8-HpCDF | 1050  | -  |      | 10.5         | 0.0393 | Total PeCDF | 394  | -  | D,M  |
| 1,2,3,4,7,8,9-HpCDF | 46.7  | -  |      | 0.467        | 0.0418 | Total HxCDF | 1080 | -  | D,M  |
| OCDF                | 2480  | -  |      | 0.744        | 0.105  | Total HpCDF | 2970 | -  |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 86.1  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 97.7  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 85.4  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 90.2  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 118   | 23.0 - 140 |      |
| 13C-OCDD                | 113   | 17.0 - 157 | *    |
| 13C-2,3,7,8-TCDF        | 92.8  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 108   | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 111   | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 88.3  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 88.3  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 90.2  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 93.9  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 102   | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 121   | 26.0 - 138 |      |
| 13C-OCDF                | 101   | 17.0 - 157 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Cleanup Surrogate

|                   |      |            |
|-------------------|------|------------|
| 37Cl-2,3,7,8-TCDD | 81.2 | 35.0 - 197 |
|-------------------|------|------------|

Analyst: [Signature]  
Date: 4/21/11

Reviewed By: [Signature]  
Date: 4/21/11



EPA Method 1613  
PCDD/F



FAL ID: 6701-004-SA  
Client ID: LL-SED4-0-15-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 3.02 g  
% Solids: 17.49

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-21-2011  
2005 WHO TEQ: 149

| Compound            | Conc  | DL | Qual | 2005 WHO Tox | MDL    | Compound    | Conc | DL | Qual  |
|---------------------|-------|----|------|--------------|--------|-------------|------|----|-------|
| 2,3,7,8-TCDD        | 5.23  | -  |      | 5.23         | 0.0259 |             |      |    |       |
| 1,2,3,7,8-PeCDD     | 16.2  | -  |      | 16.2         | 0.0434 |             |      |    |       |
| 1,2,3,4,7,8-HxCDD   | 40.1  | -  |      | 4.01         | 0.0467 |             |      |    |       |
| 1,2,3,6,7,8-HxCDD   | 164   | -  |      | 16.4         | 0.0587 | Total TCDD  | 78.1 |    | -     |
| 1,2,3,7,8,9-HxCDD   | 93.4  | -  |      | 9.34         | 0.0529 | Total PeCDD | 477  |    | -     |
| 1,2,3,4,6,7,8-HpCDD | 4980  | -  |      | 49.8         | 0.0742 | Total HxCDD | 1490 |    | -     |
| OCDD                | 51500 | -  | *    | 15.4         | 0.144  | Total HpCDD | 9300 |    | -     |
| 2,3,7,8-TCDF        | 9.95  | -  | F    | 0.995        | 0.0200 |             |      |    |       |
| 1,2,3,7,8-PeCDF     | 12.2  | -  |      | 0.366        | 0.0304 |             |      |    |       |
| 2,3,4,7,8-PeCDF     | 12.1  | -  |      | 3.63         | 0.0322 |             |      |    |       |
| 1,2,3,4,7,8-HxCDF   | 78.5  | -  |      | 7.85         | 0.0365 |             |      |    |       |
| 1,2,3,6,7,8-HxCDF   | 34.5  | -  |      | 3.45         | 0.0357 |             |      |    |       |
| 2,3,4,6,7,8-HxCDF   | 44.3  | -  |      | 4.43         | 0.0399 |             |      |    |       |
| 1,2,3,7,8,9-HxCDF   | 9.57  | -  |      | 0.957        | 0.0386 | Total TCDF  | 212  |    | -     |
| 1,2,3,4,6,7,8-HpCDF | 979   | -  |      | 9.79         | 0.0393 | Total PeCDF | 365  |    | -     |
| 1,2,3,4,7,8,9-HpCDF | 54.6  | -  |      | 0.546        | 0.0418 | Total HxCDF | 1120 |    | - D,M |
| OCDF                | 2470  | -  |      | 0.741        | 0.105  | Total HpCDF | 2910 |    | -     |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 80.9  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 73.5  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 77.7  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 83.5  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 110   | 23.0 - 140 |      |
| 13C-OCDD                | 107   | 17.0 - 157 | *    |
| 13C-2,3,7,8-TCDF        | 88.8  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 86.6  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 87.9  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 87.8  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 89.2  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 85.1  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 91.9  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 101   | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 115   | 26.0 - 138 |      |
| 13C-OCDF                | 96.4  | 17.0 - 157 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 71.3 35.0 - 197

Analyst: 8  
Date: 4/21/11

Reviewed By: SN  
Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-005-SA Date Extracted: 04-18-2011 ICal: PCDDFAL3-3-7-11 Acquired: 04-21-2011  
 Client ID: LL-SED1-0-15-032911-D Date Received: 03-31-2011 GC Column: DB5 2005 WHO TEQ: 187  
 Matrix: Sediment Amount: 3.05 g Units: pg/g  
 Batch No: X2272 % Solids: 18.65

| Compound            | Conc  | DL | Qual | 2005 WHO Tox | MDL    | Compound    | Conc  | DL | Qual  |
|---------------------|-------|----|------|--------------|--------|-------------|-------|----|-------|
| 2,3,7,8-TCDD        | 4.28  | -  |      | 4.28         | 0.0259 |             |       |    |       |
| 1,2,3,7,8-PeCDD     | 21.8  | -  |      | 21.8         | 0.0434 |             |       |    |       |
| 1,2,3,4,7,8-HxCDD   | 51.3  | -  |      | 5.13         | 0.0467 |             |       |    |       |
| 1,2,3,6,7,8-HxCDD   | 183   | -  |      | 18.3         | 0.0587 | Total TCDD  | 55.5  |    | -     |
| 1,2,3,7,8,9-HxCDD   | 111   | -  |      | 11.1         | 0.0529 | Total PeCDD | 287   |    | -     |
| 1,2,3,4,6,7,8-HpCDD | 6100  | -  |      | 61.0         | 0.0742 | Total HxCDD | 1250  |    | -     |
| OCDD                | 67000 | -  | *    | 20.1         | 0.144  | Total HpCDD | 10800 |    | -     |
| 2,3,7,8-TCDF        | 7.09  | -  | F    | 0.709        | 0.0200 |             |       |    |       |
| 1,2,3,7,8-PeCDF     | 10.1  | -  |      | 0.303        | 0.0304 |             |       |    |       |
| 2,3,4,7,8-PeCDF     | 12.9  | -  |      | 3.87         | 0.0322 |             |       |    |       |
| 1,2,3,4,7,8-HxCDF   | 137   | -  |      | 13.7         | 0.0365 |             |       |    |       |
| 1,2,3,6,7,8-HxCDF   | 43.6  | -  |      | 4.36         | 0.0357 |             |       |    |       |
| 2,3,4,6,7,8-HxCDF   | 57.7  | -  |      | 5.77         | 0.0399 |             |       |    |       |
| 1,2,3,7,8,9-HxCDF   | 11.4  | -  |      | 1.14         | 0.0386 | Total TCDF  | 164   |    | -     |
| 1,2,3,4,6,7,8-HpCDF | 1350  | -  |      | 13.5         | 0.0393 | Total PeCDF | 352   |    | -     |
| 1,2,3,4,7,8,9-HpCDF | 93.6  | -  |      | 0.936        | 0.0418 | Total HxCDF | 1500  |    | - D,M |
| OCDF                | 4040  | -  |      | 1.21         | 0.105  | Total HpCDF | 4450  |    | -     |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 101   | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 91.5  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 95.4  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 101   | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 127   | 23.0 - 140 |      |
| 13C-OCDD                | 135   | 17.0 - 157 | *    |
| 13C-2,3,7,8-TCDF        | 107   | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 110   | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 109   | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 96.1  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 97.3  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 98.2  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 105   | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 114   | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 128   | 26.0 - 138 |      |
| 13C-OCDF                | 101   | 17.0 - 157 |      |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 90.7 35.0 - 197

Analyst: [Signature]  
 Date: 4/21/11

Reviewed By: DN  
 Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-006-SA  
Client ID: LL-SED5-0-15-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 5.03 g  
% Solids: 77.77

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-20-2011  
2005 WHO TEQ: 7.41

| Compound            | Conc  | DL    | Qual | 2005 WHO Tox | MDL    | Compound    | Conc | DL    | Qual |
|---------------------|-------|-------|------|--------------|--------|-------------|------|-------|------|
| 2,3,7,8-TCDD        | ND    | 0.269 |      | -            | 0.0259 |             |      |       |      |
| 1,2,3,7,8-PeCDD     | 1.26  | -     | J    | 1.26         | 0.0434 |             |      |       |      |
| 1,2,3,4,7,8-HxCDD   | 2.03  | -     | J    | 0.203        | 0.0467 |             |      |       |      |
| 1,2,3,6,7,8-HxCDD   | 7.46  | -     |      | 0.746        | 0.0587 | Total TCDD  | ND   | 0.269 |      |
| 1,2,3,7,8,9-HxCDD   | 3.88  | -     | J    | 0.388        | 0.0529 | Total PeCDD | 5.30 | -     |      |
| 1,2,3,4,6,7,8-HpCDD | 202   | -     |      | 2.02         | 0.0742 | Total HxCDD | 35.0 | -     |      |
| OCDD                | 2110  | -     |      | 0.633        | 0.144  | Total HpCDD | 340  | -     |      |
| 2,3,7,8-TCDF        | ND    | 0.185 |      | -            | 0.0200 |             |      |       |      |
| 1,2,3,7,8-PeCDF     | 0.518 | -     | J    | 0.0155       | 0.0304 |             |      |       |      |
| 2,3,4,7,8-PeCDF     | 0.894 | -     | J    | 0.268        | 0.0322 |             |      |       |      |
| 1,2,3,4,7,8-HxCDF   | 8.09  | -     |      | 0.809        | 0.0365 |             |      |       |      |
| 1,2,3,6,7,8-HxCDF   | 2.30  | -     | J    | 0.230        | 0.0357 |             |      |       |      |
| 2,3,4,6,7,8-HxCDF   | 2.75  | -     | J    | 0.275        | 0.0399 |             |      |       |      |
| 1,2,3,7,8,9-HxCDF   | 0.645 | -     | J    | 0.0645       | 0.0386 | Total TCDF  | 4.70 | -     |      |
| 1,2,3,4,6,7,8-HpCDF | 41.9  | -     |      | 0.419        | 0.0393 | Total PeCDF | 18.9 | -     |      |
| 1,2,3,4,7,8,9-HpCDF | 4.20  | -     | J    | 0.0420       | 0.0418 | Total HxCDF | 72.0 | -     |      |
| OCDF                | 114   | -     |      | 0.0342       | 0.105  | Total HpCDF | 155  | -     |      |

Internal Standards % Rec QC Limits Qual

|                         |      |            |  |
|-------------------------|------|------------|--|
| 13C-2,3,7,8-TCDD        | 86.6 | 25.0 - 164 |  |
| 13C-1,2,3,7,8-PeCDD     | 75.5 | 25.0 - 181 |  |
| 13C-1,2,3,4,7,8-HxCDD   | 88.4 | 32.0 - 141 |  |
| 13C-1,2,3,6,7,8-HxCDD   | 92.8 | 28.0 - 130 |  |
| 13C-1,2,3,4,6,7,8-HpCDD | 114  | 23.0 - 140 |  |
| 13C-OCDD                | 100  | 17.0 - 157 |  |
| 13C-2,3,7,8-TCDF        | 94.2 | 24.0 - 169 |  |
| 13C-1,2,3,7,8-PeCDF     | 90.0 | 24.0 - 185 |  |
| 13C-2,3,4,7,8-PeCDF     | 91.4 | 21.0 - 178 |  |
| 13C-1,2,3,4,7,8-HxCDF   | 93.2 | 26.0 - 152 |  |
| 13C-1,2,3,6,7,8-HxCDF   | 94.5 | 26.0 - 123 |  |
| 13C-2,3,4,6,7,8-HxCDF   | 93.9 | 28.0 - 136 |  |
| 13C-1,2,3,7,8,9-HxCDF   | 104  | 29.0 - 147 |  |
| 13C-1,2,3,4,6,7,8-HpCDF | 105  | 28.0 - 143 |  |
| 13C-1,2,3,4,7,8,9-HpCDF | 130  | 26.0 - 138 |  |
| 13C-OCDF                | 97.5 | 17.0 - 157 |  |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 79.9 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:           
Date: 4/21/11

Reviewed By: SN  
Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-007-SA  
Client ID: MC-SED1-0-10-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 6.29 g  
% Solids: 83.04

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-20-2011  
2005 WHO TEQ: 0.109

| Compound            | Conc | DL    | Qual | 2005 WHO Tox | MDL    | Compound    | Conc  | DL    | Qual |
|---------------------|------|-------|------|--------------|--------|-------------|-------|-------|------|
| 2,3,7,8-TCDD        | ND   | 0.158 |      | -            | 0.0259 |             |       |       |      |
| 1,2,3,7,8-PeCDD     | ND   | 0.250 |      | -            | 0.0434 |             |       |       |      |
| 1,2,3,4,7,8-HxCDD   | ND   | 0.308 |      | -            | 0.0467 |             |       |       |      |
| 1,2,3,6,7,8-HxCDD   | ND   | 0.402 |      | -            | 0.0587 | Total TCDD  | ND    | 0.158 |      |
| 1,2,3,7,8,9-HxCDD   | ND   | 0.345 |      | -            | 0.0529 | Total PeCDD | ND    | 0.250 |      |
| 1,2,3,4,6,7,8-HpCDD | 7.83 | -     |      | 0.0783       | 0.0742 | Total HxCDD | 0.822 | -     | J    |
| OCDD                | 52.6 | -     |      | 0.0158       | 0.144  | Total HpCDD | 12.9  | -     |      |
|                     |      |       |      |              |        |             |       |       |      |
| 2,3,7,8-TCDF        | ND   | 0.152 |      | -            | 0.0200 |             |       |       |      |
| 1,2,3,7,8-PeCDF     | ND   | 0.180 |      | -            | 0.0304 |             |       |       |      |
| 2,3,4,7,8-PeCDF     | ND   | 0.175 |      | -            | 0.0322 |             |       |       |      |
| 1,2,3,4,7,8-HxCDF   | ND   | 0.197 |      | -            | 0.0365 |             |       |       |      |
| 1,2,3,6,7,8-HxCDF   | ND   | 0.188 |      | -            | 0.0357 |             |       |       |      |
| 2,3,4,6,7,8-HxCDF   | ND   | 0.200 |      | -            | 0.0399 |             |       |       |      |
| 1,2,3,7,8,9-HxCDF   | ND   | 0.182 |      | -            | 0.0386 | Total TCDF  | ND    | 0.152 |      |
| 1,2,3,4,6,7,8-HpCDF | 1.37 | -     | J    | 0.0137       | 0.0393 | Total PeCDF | 0.638 | -     | J    |
| 1,2,3,4,7,8,9-HpCDF | ND   | 0.270 |      | -            | 0.0418 | Total HxCDF | 1.76  | -     | J    |
| OCDF                | 3.22 | -     | J    | 0.000966     | 0.105  | Total HpCDF | 3.42  | -     | J    |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 89.7  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 77.4  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 88.4  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 91.4  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 118   | 23.0 - 140 |      |
| 13C-OCDD                | 92.3  | 17.0 - 157 |      |
|                         |       |            |      |
| 13C-2,3,7,8-TCDF        | 97.5  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 89.9  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 92.5  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 95.1  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 95.4  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 95.2  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 100   | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 108   | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 137   | 26.0 - 138 |      |
| 13C-OCDF                | 97.6  | 17.0 - 157 |      |

Cleanup Surrogate

|                   |      |            |
|-------------------|------|------------|
| 37Cl-2,3,7,8-TCDD | 80.5 | 35.0 - 197 |
|-------------------|------|------------|

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 4/21/11

Reviewed By: [Signature]  
Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-008-SA  
Client ID: MC-SED2-0-10-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 5.09 g  
% Solids: 85.11

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-20-2011  
2005 WHO TEQ: 0.0383

| Compound            | Conc  | DL    | Qual | 2005 WHO Tox | MDL    | Compound    | Conc | DL    | Qual |
|---------------------|-------|-------|------|--------------|--------|-------------|------|-------|------|
| 2,3,7,8-TCDD        | ND    | 0.209 |      | -            | 0.0259 |             |      |       |      |
| 1,2,3,7,8-PeCDD     | ND    | 0.334 |      | -            | 0.0434 |             |      |       |      |
| 1,2,3,4,7,8-HxCDD   | ND    | 0.282 |      | -            | 0.0467 |             |      |       |      |
| 1,2,3,6,7,8-HxCDD   | ND    | 0.352 |      | -            | 0.0587 | Total TCDD  | ND   | 0.209 |      |
| 1,2,3,7,8,9-HxCDD   | ND    | 0.310 |      | -            | 0.0529 | Total PeCDD | ND   | 0.334 |      |
| 1,2,3,4,6,7,8-HpCDD | 2.83  | -     | J    | 0.0283       | 0.0742 | Total HxCDD | ND   | 0.352 |      |
| OCDD                | 15.4  | -     |      | 0.00462      | 0.144  | Total HpCDD | 4.77 | -     | J    |
| 2,3,7,8-TCDF        | ND    | 0.132 |      | -            | 0.0200 |             |      |       |      |
| 1,2,3,7,8-PeCDF     | ND    | 0.215 |      | -            | 0.0304 |             |      |       |      |
| 2,3,4,7,8-PeCDF     | ND    | 0.221 |      | -            | 0.0322 |             |      |       |      |
| 1,2,3,4,7,8-HxCDF   | ND    | 0.178 |      | -            | 0.0365 |             |      |       |      |
| 1,2,3,6,7,8-HxCDF   | ND    | 0.173 |      | -            | 0.0357 |             |      |       |      |
| 2,3,4,6,7,8-HxCDF   | ND    | 0.177 |      | -            | 0.0399 |             |      |       |      |
| 1,2,3,7,8,9-HxCDF   | ND    | 0.160 |      | -            | 0.0386 | Total TCDF  | ND   | 0.132 |      |
| 1,2,3,4,6,7,8-HpCDF | 0.536 | -     | J    | 0.00536      | 0.0393 | Total PeCDF | ND   | 0.221 |      |
| 1,2,3,4,7,8,9-HpCDF | ND    | 0.202 |      | -            | 0.0418 | Total HxCDF | ND   | 0.340 |      |
| OCDF                | ND    | 0.868 |      | -            | 0.105  | Total HpCDF | 1.44 | -     | J    |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 86.7  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 77.6  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 87.2  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 91.5  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 114   | 23.0 - 140 |      |
| 13C-OCDD                | 80.5  | 17.0 - 157 |      |
| 13C-2,3,7,8-TCDF        | 92.7  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 90.4  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 91.3  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 94.5  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 95.6  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 92.7  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 98.3  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 102   | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 127   | 26.0 - 138 |      |
| 13C-OCDF                | 87.6  | 17.0 - 157 |      |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 76.2 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 4/21/11

Reviewed By: [Signature]  
Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-009-SA  
Client ID: MC-SED3-0-10-032911  
Matrix: Sediment  
Batch No: X2272

Date Extracted: 04-18-2011  
Date Received: 03-31-2011  
Amount: 6.00 g  
% Solids: 88.38

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/g

Acquired: 04-20-2011  
2005 WHO TEQ: 0.0121

| Compound            | Conc | DL     | Qual | 2005 WHO Tox | MDL    | Compound    | Conc | DL     | Qual |
|---------------------|------|--------|------|--------------|--------|-------------|------|--------|------|
| 2,3,7,8-TCDD        | ND   | 0.159  |      | -            | 0.0259 |             |      |        |      |
| 1,2,3,7,8-PeCDD     | ND   | 0.204  |      | -            | 0.0434 |             |      |        |      |
| 1,2,3,4,7,8-HxCDD   | ND   | 0.336  |      | -            | 0.0467 |             |      |        |      |
| 1,2,3,6,7,8-HxCDD   | ND   | 0.441  |      | -            | 0.0587 | Total TCDD  | ND   | 0.159  |      |
| 1,2,3,7,8,9-HxCDD   | ND   | 0.378  |      | -            | 0.0529 | Total PeCDD | ND   | 0.204  |      |
| 1,2,3,4,6,7,8-HpCDD | 1.03 | -      | J    | 0.0103       | 0.0742 | Total HxCDD | ND   | 0.441  |      |
| OCDD                | 5.93 | -      | J    | 0.00178      | 0.144  | Total HpCDD | 1.80 | -      | J    |
| 2,3,7,8-TCDF        | ND   | 0.0986 |      | -            | 0.0200 |             |      |        |      |
| 1,2,3,7,8-PeCDF     | ND   | 0.152  |      | -            | 0.0304 |             |      |        |      |
| 2,3,4,7,8-PeCDF     | ND   | 0.155  |      | -            | 0.0322 |             |      |        |      |
| 1,2,3,4,7,8-HxCDF   | ND   | 0.208  |      | -            | 0.0365 |             |      |        |      |
| 1,2,3,6,7,8-HxCDF   | ND   | 0.206  |      | -            | 0.0357 |             |      |        |      |
| 2,3,4,6,7,8-HxCDF   | ND   | 0.220  |      | -            | 0.0399 |             |      |        |      |
| 1,2,3,7,8,9-HxCDF   | ND   | 0.203  |      | -            | 0.0386 | Total TCDF  | ND   | 0.0986 |      |
| 1,2,3,4,6,7,8-HpCDF | ND   | 0.301  |      | -            | 0.0393 | Total PeCDF | ND   | 0.155  |      |
| 1,2,3,4,7,8,9-HpCDF | ND   | 0.333  |      | -            | 0.0418 | Total HxCDF | ND   | 0.220  |      |
| OCDF                | ND   | 0.646  |      | -            | 0.105  | Total HpCDF | ND   | 0.333  |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 68.2  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 60.1  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 70.2  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 74.0  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 83.1  | 23.0 - 140 |      |
| 13C-OCDD                | 57.5  | 17.0 - 157 |      |
| 13C-2,3,7,8-TCDF        | 75.8  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 71.9  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 70.8  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 76.7  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 76.9  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 74.7  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 77.8  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 81.4  | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 98.4  | 26.0 - 138 |      |
| 13C-OCDF                | 65.0  | 17.0 - 157 |      |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 61.7 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 4/21/11

Reviewed By: DN  
Date: 4/21/11

EPA Method 1613  
PCDD/F



FAL ID: 6701-010-SA  
Client ID: LL-SED1-0-15-032911-ER  
Matrix: Aqueous  
Batch No: X2265

Date Extracted: 04-07-2011  
Date Received: 03-31-2011  
Amount: 1.035 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/L

Acquired: 04-09-2011  
2005 WHO TEQ: 0.00459

| Compound            | Conc | DL   | Qual | 2005 WHO Tox | MDL   | Compound    | Conc | DL   | Qual |
|---------------------|------|------|------|--------------|-------|-------------|------|------|------|
| 2,3,7,8-TCDD        | ND   | 1.56 |      | -            | 0.215 |             |      |      |      |
| 1,2,3,7,8-PeCDD     | ND   | 1.53 |      | -            | 0.317 |             |      |      |      |
| 1,2,3,4,7,8-HxCDD   | ND   | 1.44 |      | -            | 0.326 |             |      |      |      |
| 1,2,3,6,7,8-HxCDD   | ND   | 1.80 |      | -            | 0.424 | Total TCDD  | ND   | 1.56 |      |
| 1,2,3,7,8,9-HxCDD   | ND   | 1.60 |      | -            | 0.367 | Total PeCDD | ND   | 1.53 |      |
| 1,2,3,4,6,7,8-HpCDD | ND   | 2.72 |      | -            | 0.497 | Total HxCDD | ND   | 1.80 |      |
| OCDD                | 15.3 | -    | J    | 0.00459      | 1.41  | Total HpCDD | ND   | 2.72 |      |
| 2,3,7,8-TCDF        | ND   | 1.13 |      | -            | 0.209 |             |      |      |      |
| 1,2,3,7,8-PeCDF     | ND   | 1.43 |      | -            | 0.235 |             |      |      |      |
| 2,3,4,7,8-PeCDF     | ND   | 1.43 |      | -            | 0.243 |             |      |      |      |
| 1,2,3,4,7,8-HxCDF   | ND   | 1.14 |      | -            | 0.255 |             |      |      |      |
| 1,2,3,6,7,8-HxCDF   | ND   | 1.12 |      | -            | 0.248 |             |      |      |      |
| 2,3,4,6,7,8-HxCDF   | ND   | 1.10 |      | -            | 0.262 |             |      |      |      |
| 1,2,3,7,8,9-HxCDF   | ND   | 1.22 |      | -            | 0.258 | Total TCDF  | ND   | 1.13 |      |
| 1,2,3,4,6,7,8-HpCDF | ND   | 1.58 |      | -            | 0.324 | Total PeCDF | ND   | 1.43 |      |
| 1,2,3,4,7,8,9-HpCDF | ND   | 2.48 |      | -            | 0.490 | Total HxCDF | ND   | 1.22 |      |
| OCDF                | ND   | 4.82 |      | -            | 0.805 | Total HpCDF | ND   | 2.48 |      |

| Internal Standards      | % Rec | QC Limits  | Qual |
|-------------------------|-------|------------|------|
| 13C-2,3,7,8-TCDD        | 67.9  | 25.0 - 164 |      |
| 13C-1,2,3,7,8-PeCDD     | 62.9  | 25.0 - 181 |      |
| 13C-1,2,3,4,7,8-HxCDD   | 58.2  | 32.0 - 141 |      |
| 13C-1,2,3,6,7,8-HxCDD   | 70.7  | 28.0 - 130 |      |
| 13C-1,2,3,4,6,7,8-HpCDD | 76.5  | 23.0 - 140 |      |
| 13C-OCDD                | 63.9  | 17.0 - 157 |      |
| 13C-2,3,7,8-TCDF        | 71.1  | 24.0 - 169 |      |
| 13C-1,2,3,7,8-PeCDF     | 74.9  | 24.0 - 185 |      |
| 13C-2,3,4,7,8-PeCDF     | 75.8  | 21.0 - 178 |      |
| 13C-1,2,3,4,7,8-HxCDF   | 62.6  | 26.0 - 152 |      |
| 13C-1,2,3,6,7,8-HxCDF   | 68.1  | 26.0 - 123 |      |
| 13C-2,3,4,6,7,8-HxCDF   | 68.5  | 28.0 - 136 |      |
| 13C-1,2,3,7,8,9-HxCDF   | 66.5  | 29.0 - 147 |      |
| 13C-1,2,3,4,6,7,8-HpCDF | 73.9  | 28.0 - 143 |      |
| 13C-1,2,3,4,7,8,9-HpCDF | 77.7  | 26.0 - 138 |      |
| 13C-OCDF                | 65.3  | 17.0 - 157 |      |

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 63.0 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 4/11/11

Reviewed By: [Signature]  
Date: 4/11/11



Laboratory: Frontier Analytical Laboratory  
 Lab Contact: BRAD SILVERBUSH  
 Lab Address: 5172 Hillside Circle  
 El Dorado Hills, CA 95762  
 Phone: 916-934-0900  
 Fax: 916-934-0999

ARI Client: Floyd Snider  
 Project ID: Lora Lake Surface Sediment Sampling  
 ARI PM: Sue Dunnihoo  
 Phone: 206-695-6207  
 Fax: 206-695-6201

*6701*  
*00c*

Analytical Protocol: PSDDA  
 Special Instructions:

Requested Turn Around: 04/13/11  
 Email Results (Y/N): Yes

**Limits of Liability.** Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

| ARI ID                     | Client ID/<br>Add'l ID | Sampled           | Matrix   | Bottles   | Analyses                 |
|----------------------------|------------------------|-------------------|----------|-----------|--------------------------|
| 11-6950-SP34A              | LL-SED1-0-15-032911    | 03/29/11<br>14:05 | Sediment | 1         | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None |                        |                   |          |           |                          |
| 11-6951-SP34B              | LL-SED2-0-15-032911    | 03/29/11<br>12:00 | Sediment | <i>x2</i> | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None |                        |                   |          |           |                          |
| 11-6952-SP34C              | LL-SED3-0-15-032911    | 03/29/11<br>11:10 | Sediment | 1         | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None |                        |                   |          |           |                          |
| 11-6953-SP34D              | LL-SED4-0-15-032911    | 03/29/11<br>13:10 | Sediment | 1         | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None |                        |                   |          |           |                          |
| 11-6954-SP34E              | LL-SED1-0-15-032911-D  | 03/29/11<br>14:05 | Sediment | 1         | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None |                        |                   |          |           |                          |
| 11-6955-SP34F              | LL-SED5-0-15-032911    | 03/29/11<br>15:10 | Sediment | 1         | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None |                        |                   |          |           |                          |
| 11-6956-SP34G              | MC-SED1-0-10-032911    | 03/29/11<br>16:50 | Sediment | 1         | Dioxin/Furans 1613 (Sub) |
| Special Instructions: None |                        |                   |          |           |                          |

*MS/MSD per Sue.*

|                                    |                                   |                     |
|------------------------------------|-----------------------------------|---------------------|
| Carrier <i>UPS</i>                 | Airbill <i>128326950151553499</i> | Date <i>3/30/11</i> |
| Relinquished by <i>[Signature]</i> | Company <i>ARI</i>                | Date <i>3/30/11</i> |
| Received by <i>[Signature]</i>     | Company <i>Frontier</i>           | Date <i>3-31-11</i> |
|                                    |                                   | Time <i>1520</i>    |
|                                    |                                   | Time <i>1015</i>    |





6701  
 862

Laboratory: Frontier Analytical Laboratory  
 Lab Contact: BRAD SILVERBUSH

ARI Client: Floyd Snider  
 Project ID: POS-LL

| ARI Sample ID              | Client Sample ID/<br>Add'l Sample ID | Sampled           | Matrix   | Bottles | Analyses                |
|----------------------------|--------------------------------------|-------------------|----------|---------|-------------------------|
| 11-6957-SP34H              | MC-SED2-0-10-032911                  | 03/29/11<br>16:35 | Sediment | 1       | Dioxin/Furans 1613(Sub) |
| Special Instructions: None |                                      |                   |          |         |                         |
| 11-6958-SP34I              | MC-SED3-0-10-032911                  | 03/29/11<br>16:15 | Sediment | 1       | Dioxin/Furans 1613(Sub) |
| Special Instructions: None |                                      |                   |          |         |                         |
| 11-6959-SP34J              | LL-SED1-0-15-032911-ER               | 03/29/11<br>15:50 | Water    | 2       | Dioxin/Furans 1613(Sub) |
| Special Instructions: None |                                      |                   |          |         |                         |

|                 |                    |         |                      |      |         |
|-----------------|--------------------|---------|----------------------|------|---------|
| Carrier         | UPS                | Airbill | 1283269501 5155 3499 | Date | 3/30/11 |
| Relinquished by | <i>[Signature]</i> | Company | ARI                  | Date | 3/30/11 |
| Received by     | <i>[Signature]</i> | Company | Frontier             | Date | 3-31-11 |
|                 |                    |         |                      | Time | 1520    |
|                 |                    |         |                      | Time | 1015    |

## Frontier Analytical Laboratory

### Sample Login Form

FAL Project ID: **6701**

|                        |  |
|------------------------|--|
| Client:                | Analytical Resources Inc. Sue Dunnihoo |
| Client Project ID:     | SP34                                   |
| Date Received:         | 03/31/2011                             |
| Time Received:         | 10:15 am                               |
| Received By:           | KZ                                     |
| Logged In By:          | KZ                                     |
| # of Samples Received: | 10                                     |
| Duplicates:            | 1                                      |
| Storage Location:      | R1                                     |

|   |                                      |
|---|--------------------------------------|
| Method of Delivery:   | UPS                                  |
| Tracking Number:  | 1Z8326950151553499                   |
| Shipping Container Received Intact                                | Yes                                  |
| Custody seals(s) present?   | Yes                                  |
| Custody seals(s) intact?  | Yes                                  |
| Sample Arrival Temperature (C)                                    | 0                                    |
| Cooling Method  | Ice                                  |
| Chain Of Custody Present?   | Yes                                  |
| Return Shipping Container To Client                               | Yes                                  |
| Test for residual Chlorine  | Yes                                  |
| Thiosulfate Added   | No                                   |
| Earliest Sample Hold Time Expiration                              | 03/28/2012                           |
| Adequate Sample Volume  | Yes                                  |
| pH Range  | Between 4 and 9*<br>6701-010-0001-SA |
| Anomalies or additional comments:                                 |                                      |
| *Samples 1-9 are sediment samples pH = N/A. L4 DATA PACKAGE / EDD |                                      |