

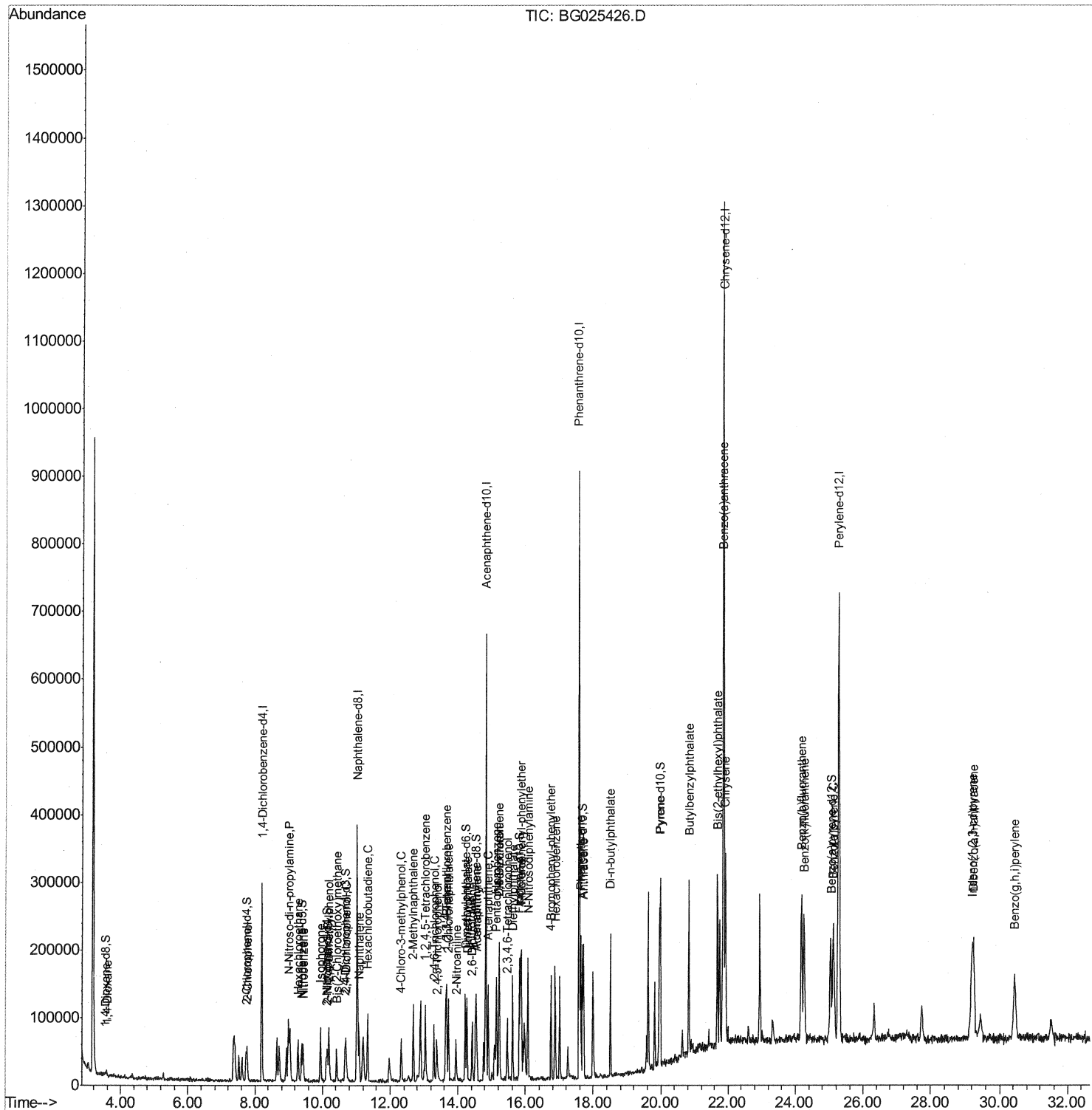
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SST00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SST00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 18:22:26 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



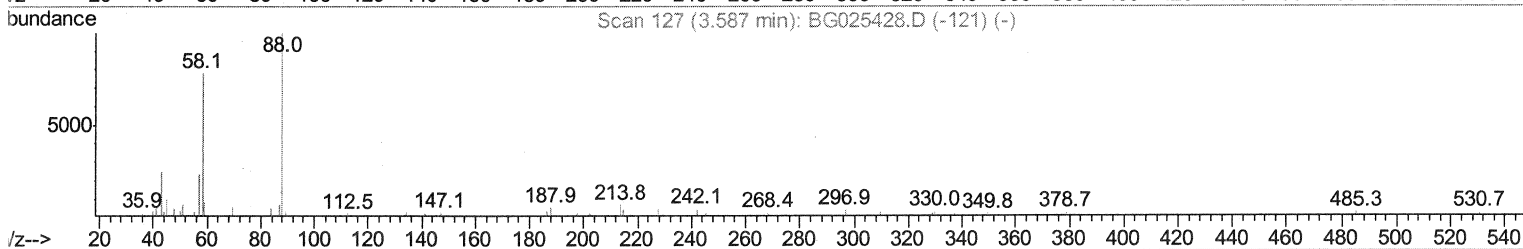
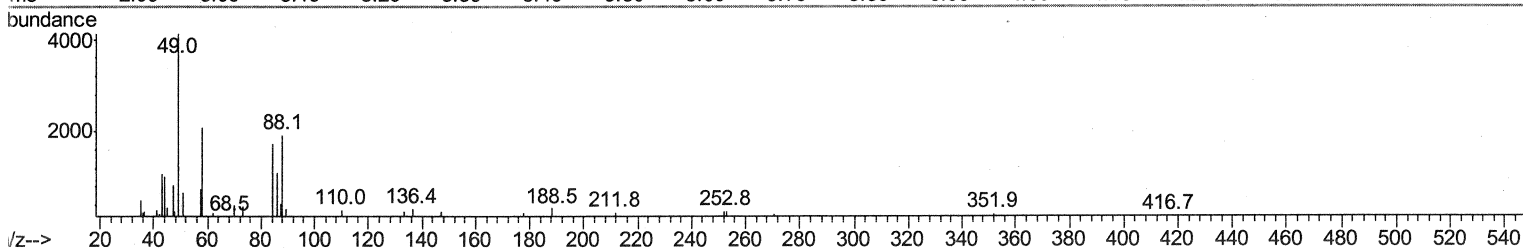
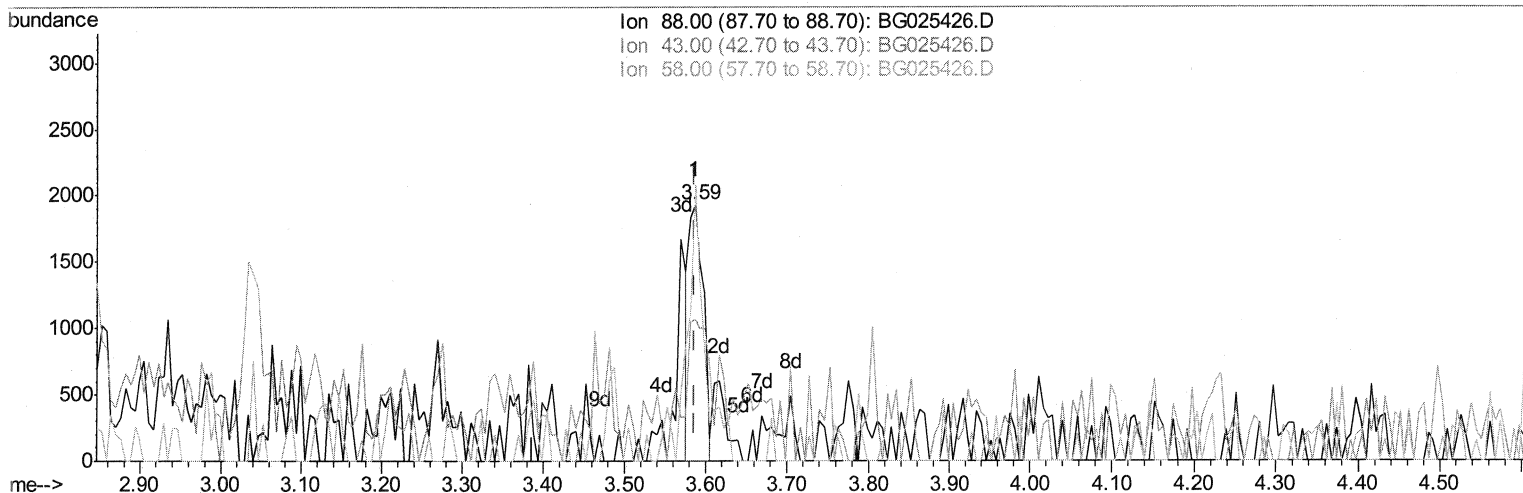
Data Path : Z:\HPCHEM1\BNA G\DATA\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SST00528  
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Instrument :  
BNA\_G  
ClientSampleId :  
SSTD00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 12:53:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



TIC: BG025426.D

(2) 1,4-Dioxane

3.587min (+0.000) 1.28ng/uL

response 2367

| Ion   | Exp%  | Act%    |
|-------|-------|---------|
| 88.00 | 100   | 100     |
| 43.00 | 26.30 | 76.05#  |
| 58.00 | 59.80 | 105.32# |
| 0.00  | 0.00  | 0.00    |

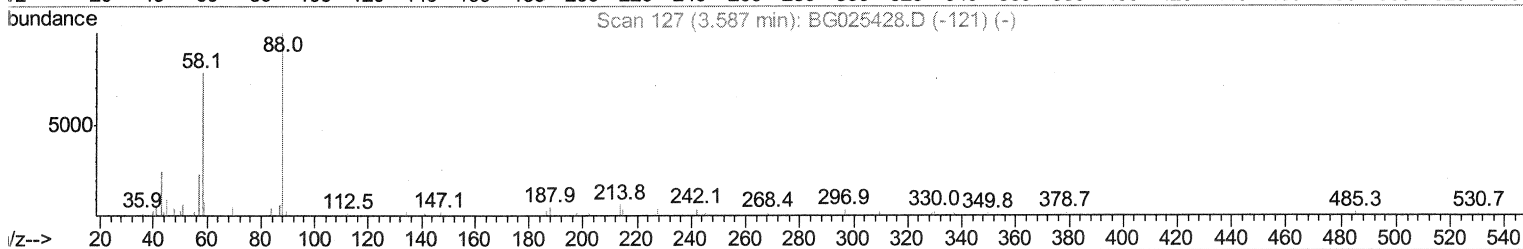
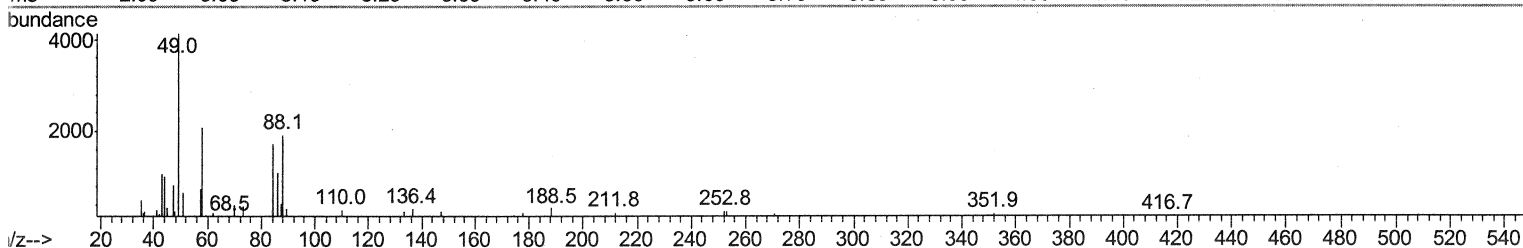
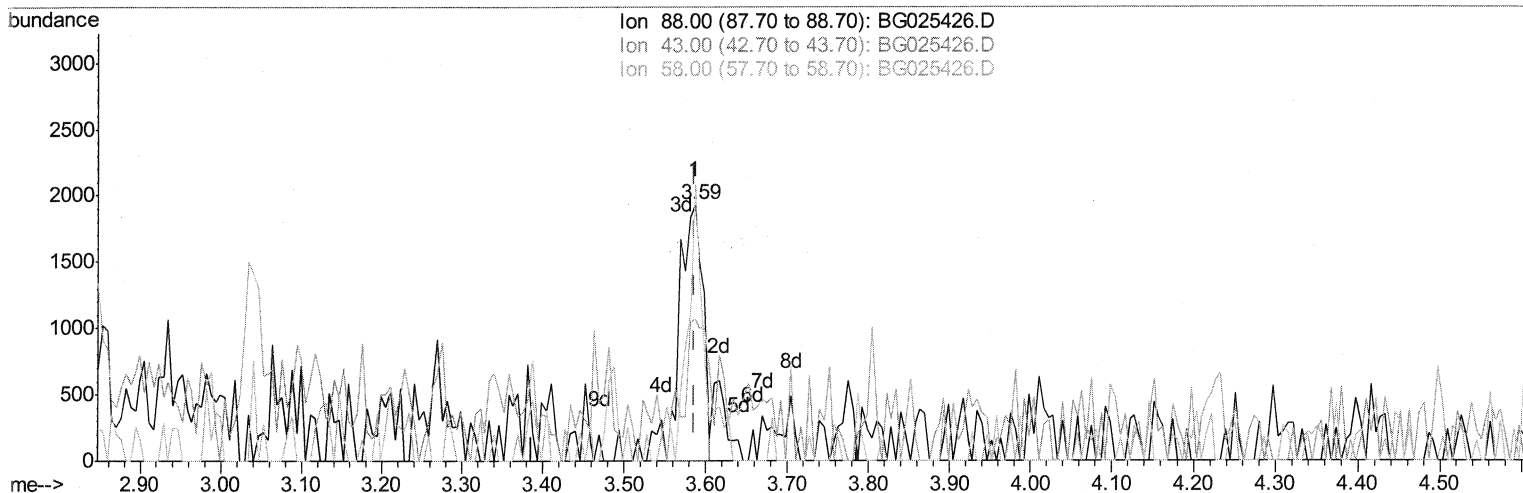
Data Path : Z:\HPCHEM1\BNA G\DATA\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SSTD00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 12:53:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



TIC: BG025426.D

(2) 1,4-Dioxane

3.587min (+0.000) 2.01ng/uL m

SJ 1/17/17

response 3703

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 88.00 | 100   | 100    |
| 43.00 | 26.30 | 48.61# |
| 58.00 | 59.80 | 67.32  |
| 0.00  | 0.00  | 0.00   |

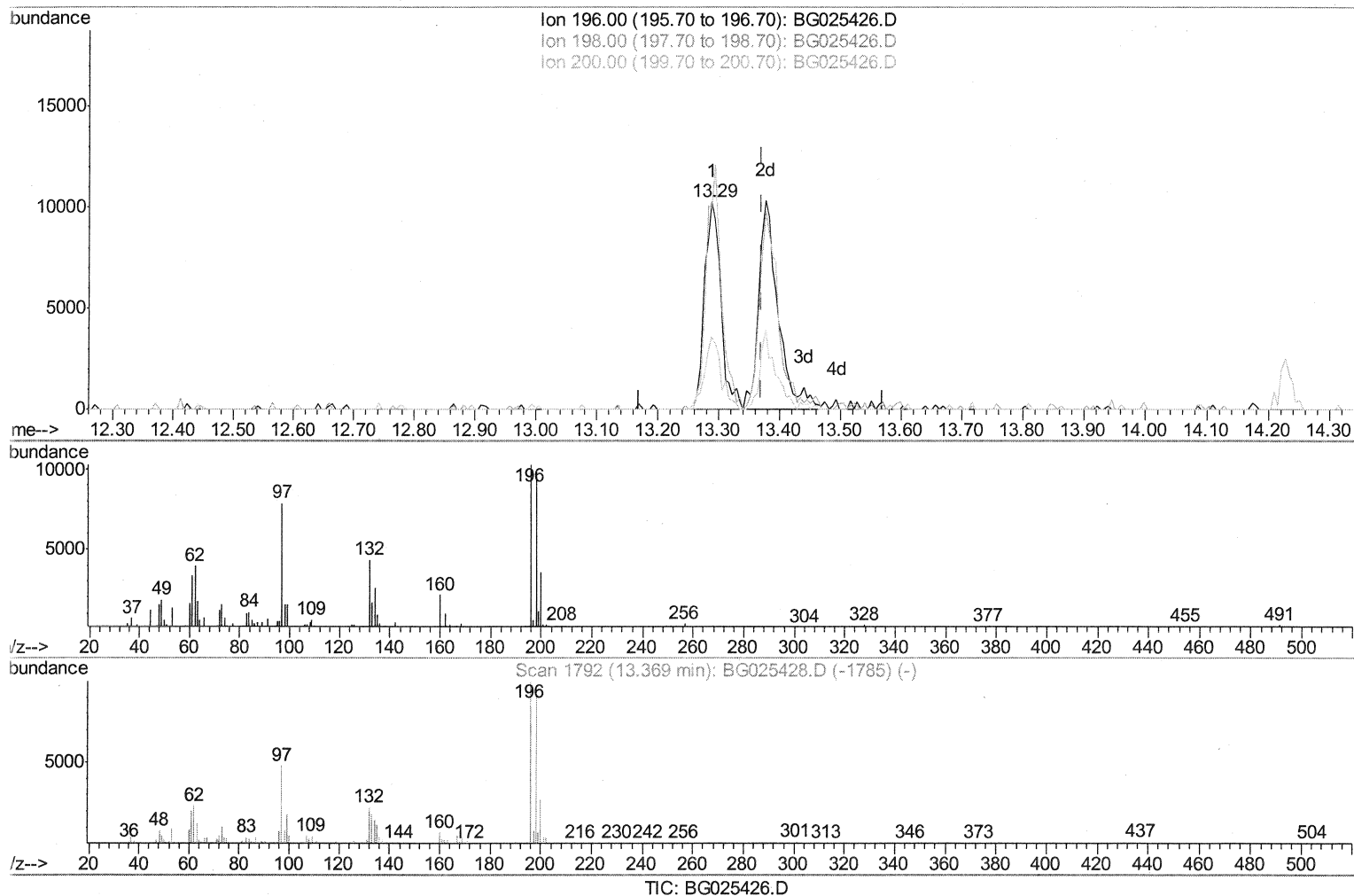
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Data Path   : Z:\HPCHEM1\BNA_G\Data\BG010417\  
Data File  : BG025426.D  
Acq On     : 4 Jan 2017 10:20  
Operator   : UM/SJ  
Sample     : SSTD00528  
Misc       :  
ALS Vial   : 2      Sample Multiplier: 1
```

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
SSTD00528

**Manual Integrations**  
**APPROVED**

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 13:04:04 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



(39) 2,4,5-Trichlorophenol

13.287min (-0.082) 4.27ng/ul

response 19117

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 196.00 | 100   | 100   |
| 198.00 | 96.10 | 96.78 |
| 200.00 | 31.20 | 34.85 |
| 0.00   | 0.00  | 0.00  |

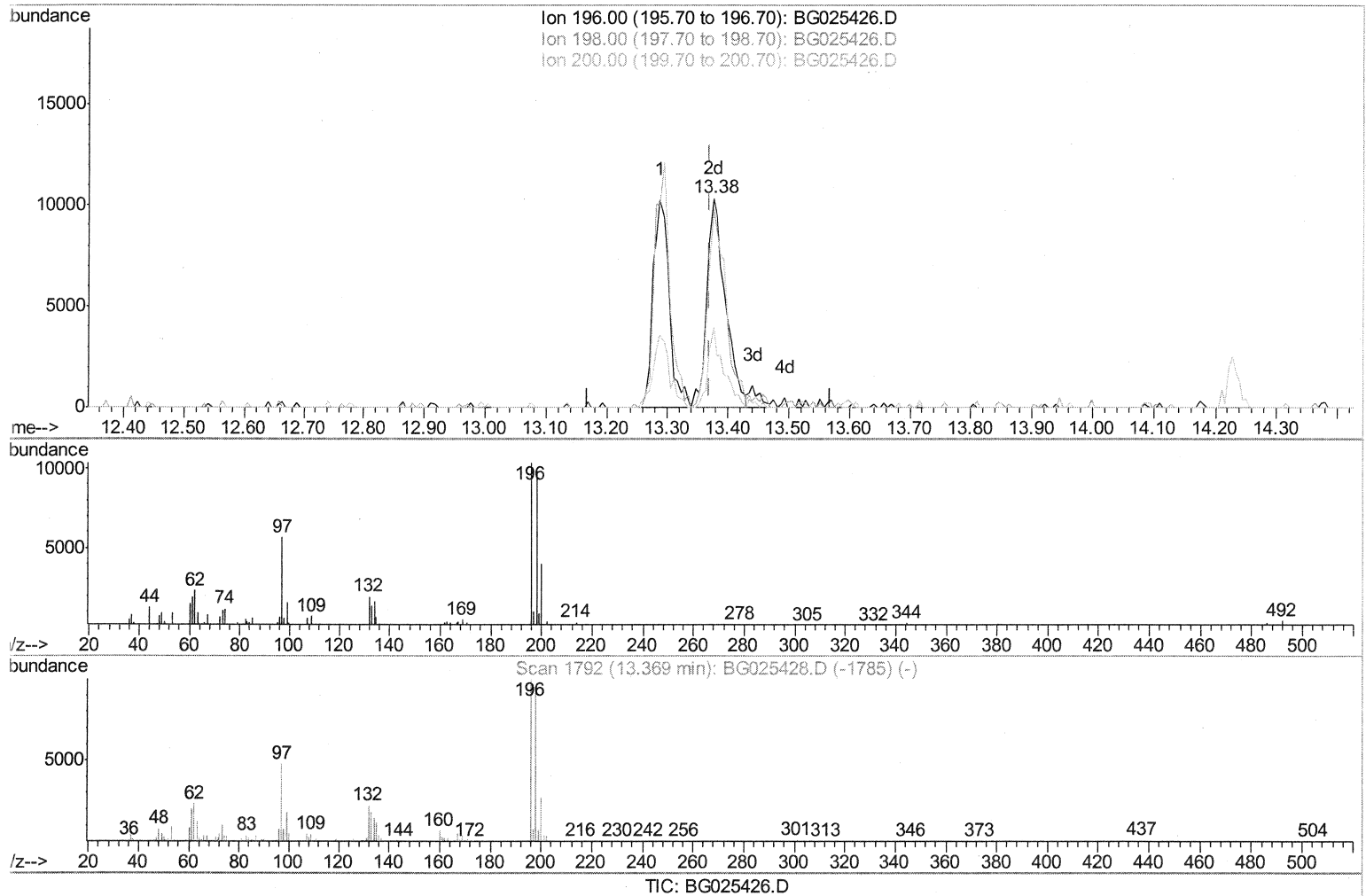
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SST00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 13:04:04 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



(39) 2,4,5-Trichlorophenol

13.376min (+0.006) 4.87ng/ul m

SJ 1/17/17

response 21811

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 196.00 | 100   | 100    |
| 198.00 | 96.10 | 95.30  |
| 200.00 | 31.20 | 38.44# |
| 0.00   | 0.00  | 0.00   |

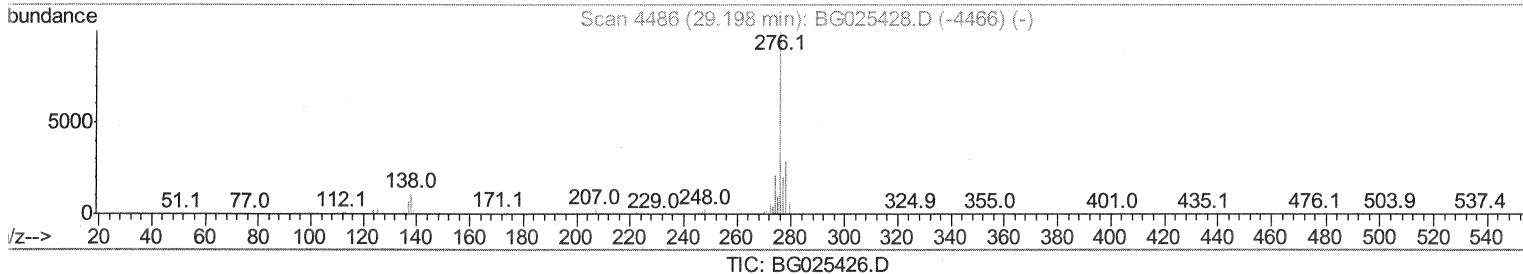
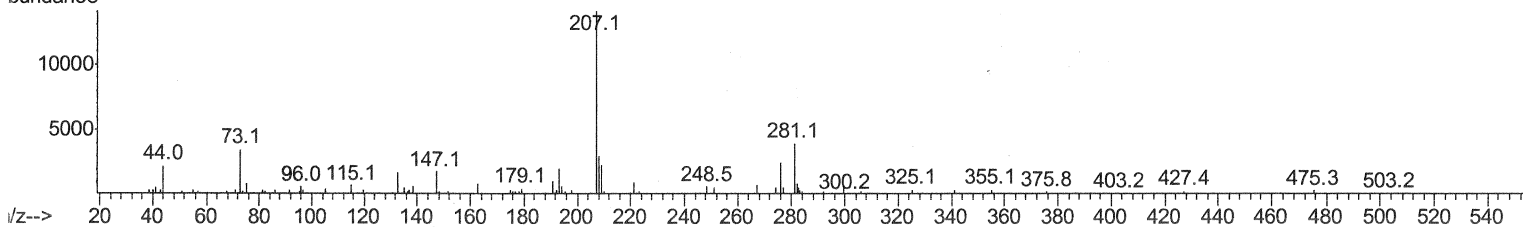
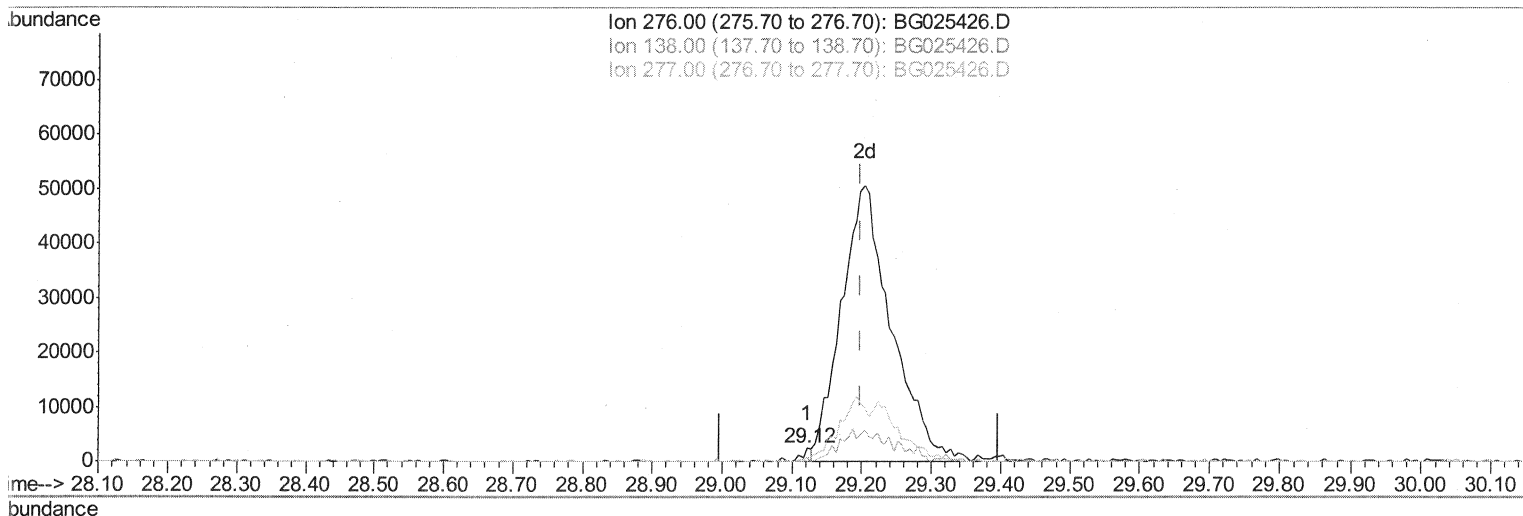
Data Path : Z:\HPCHEM1\BNA G\DATA\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SSTD00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 12:53:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



TIC: BG025426.D

(91) Indeno(1,2,3-cd)pyrene

29.122min (-0.076) 0.05ng/ul

response 2489

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 27.90 | 30.78 |
| 277.00 | 25.20 | 24.49 |
| 0.00   | 0.00  | 0.00  |

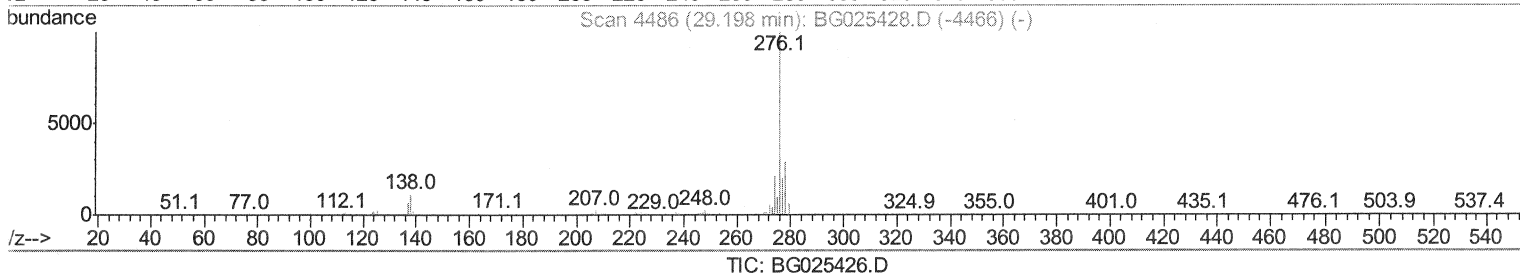
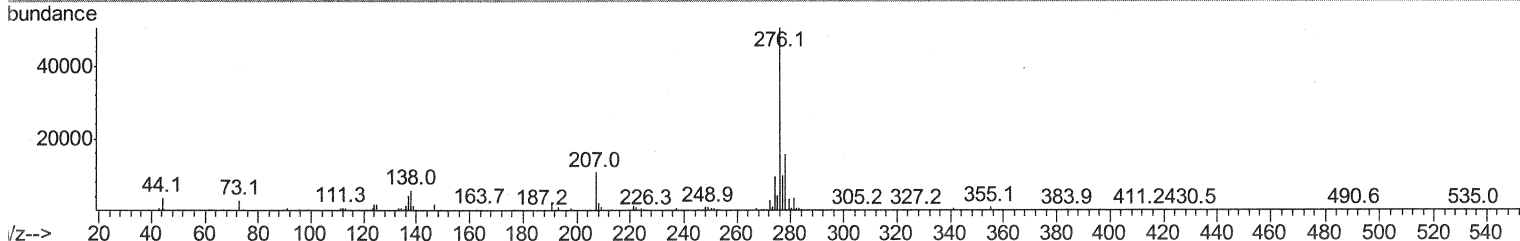
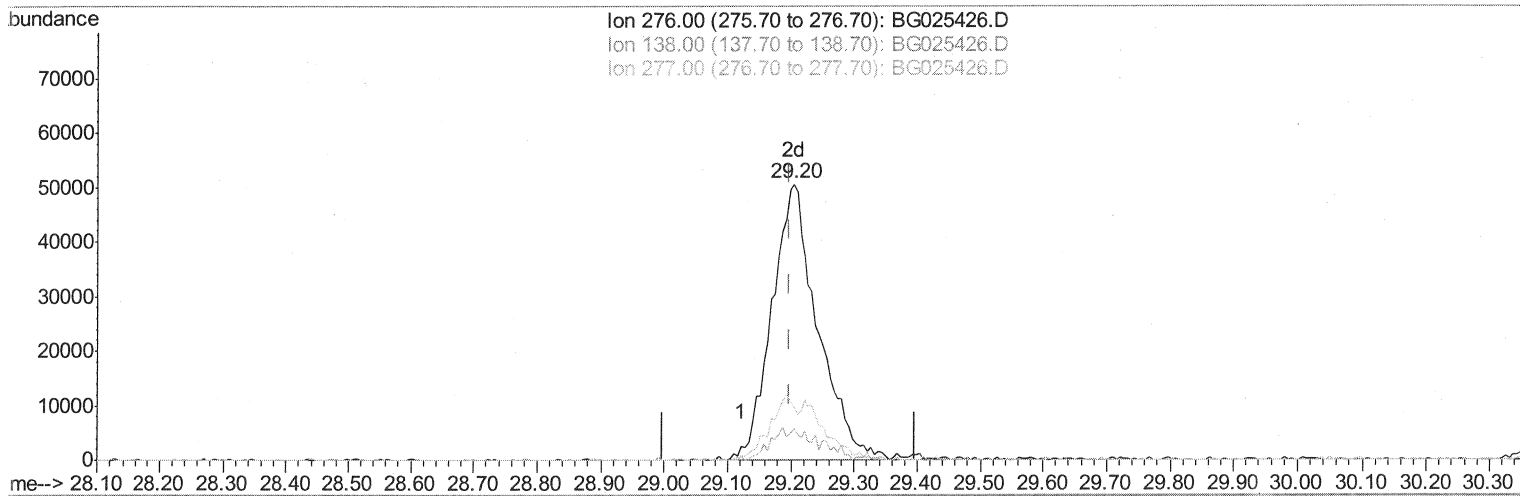
Data Path : Z:\HPCHEM1\BNA G\DATA\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SST00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SST00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 12:53:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



TIC: BG025426.D

(91) Indeno(1,2,3-cd)pyrene

29.204min (+0.006) 4.67ng/ul m

SJ 1/17/17

response 255727

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 27.90 | 11.51# |
| 277.00 | 25.20 | 19.31# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

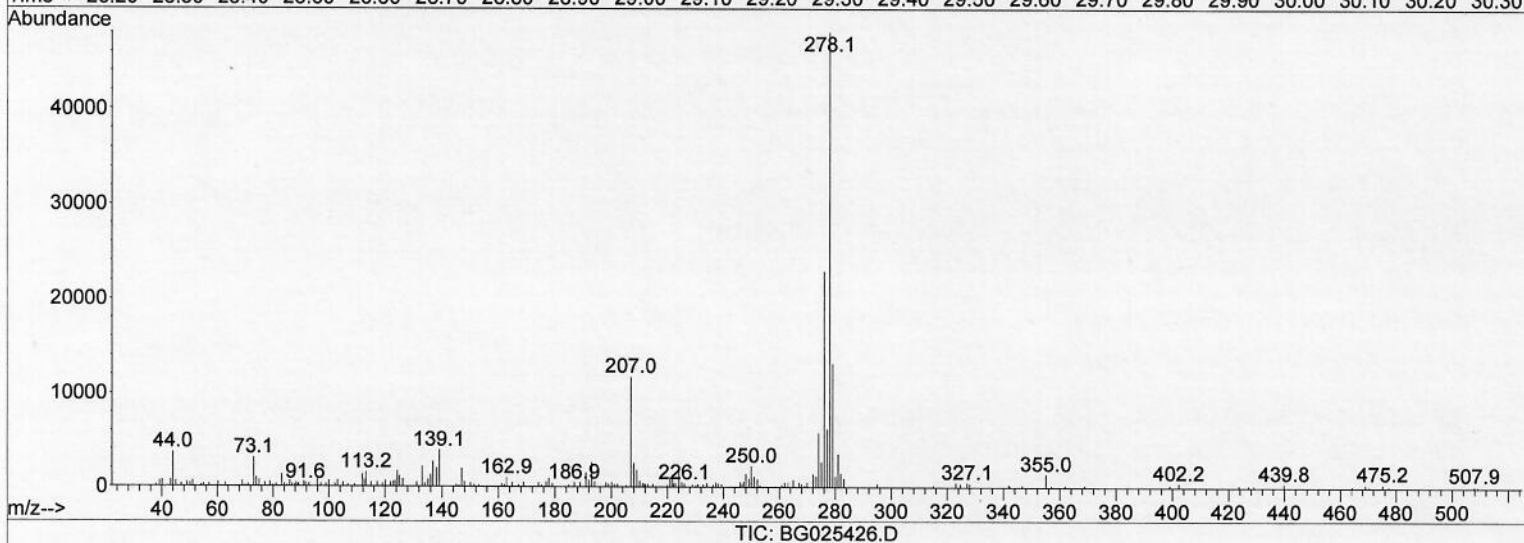
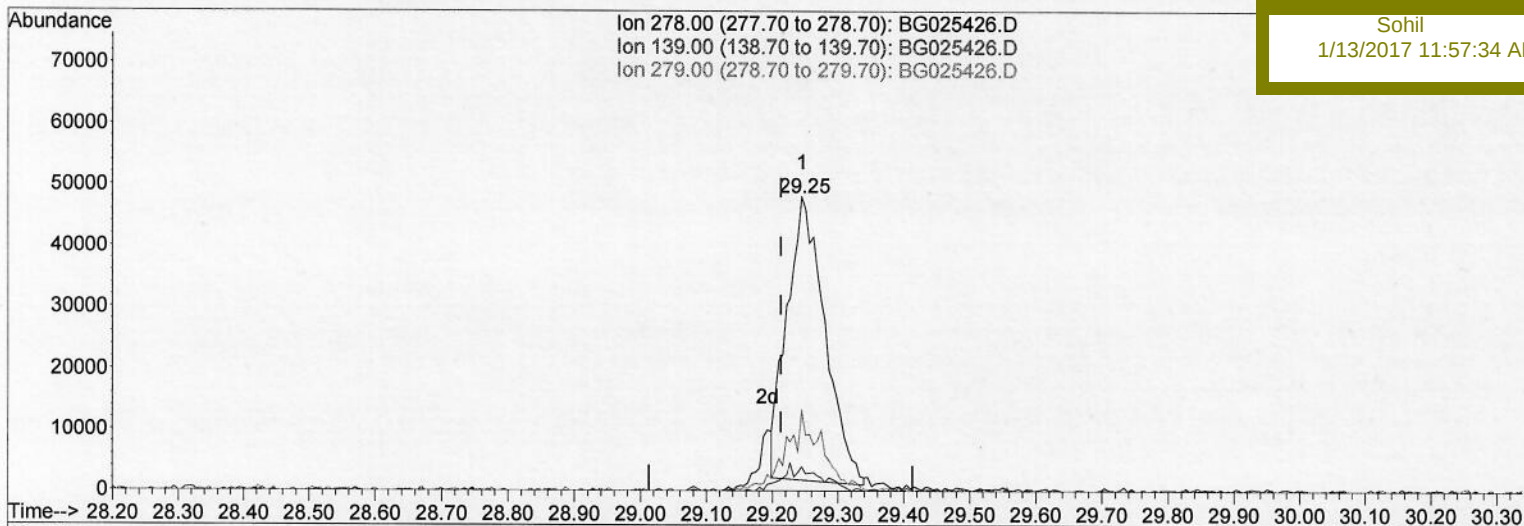
Data Path : Z:\HPCHEM1\BNA G\Data\BG010417\  
 Data File : BG025426.D  
 Acq On : 4 Jan 2017 10:20  
 Operator : UM/SJ  
 Sample : SSTD00528  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 20 15:14:48 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 17 09:49:49 2017  
 Response via : Initial Calibration

**Instrument :**  
 BNA\_G  
**ClientSampleId :**  
 SSTD00528

**Manual Integrations**  
**APPROVED**

Sohil  
 1/13/2017 11:57:34 AM



(92) Dibenzo(a,h)anthracene

29.245min (+0.033) 4.23ng/ul

response 186356

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 278.00 | 100   | 100   |
| 139.00 | 17.40 | 8.10# |
| 279.00 | 23.70 | 27.34 |
| 0.00   | 0.00  | 0.00  |

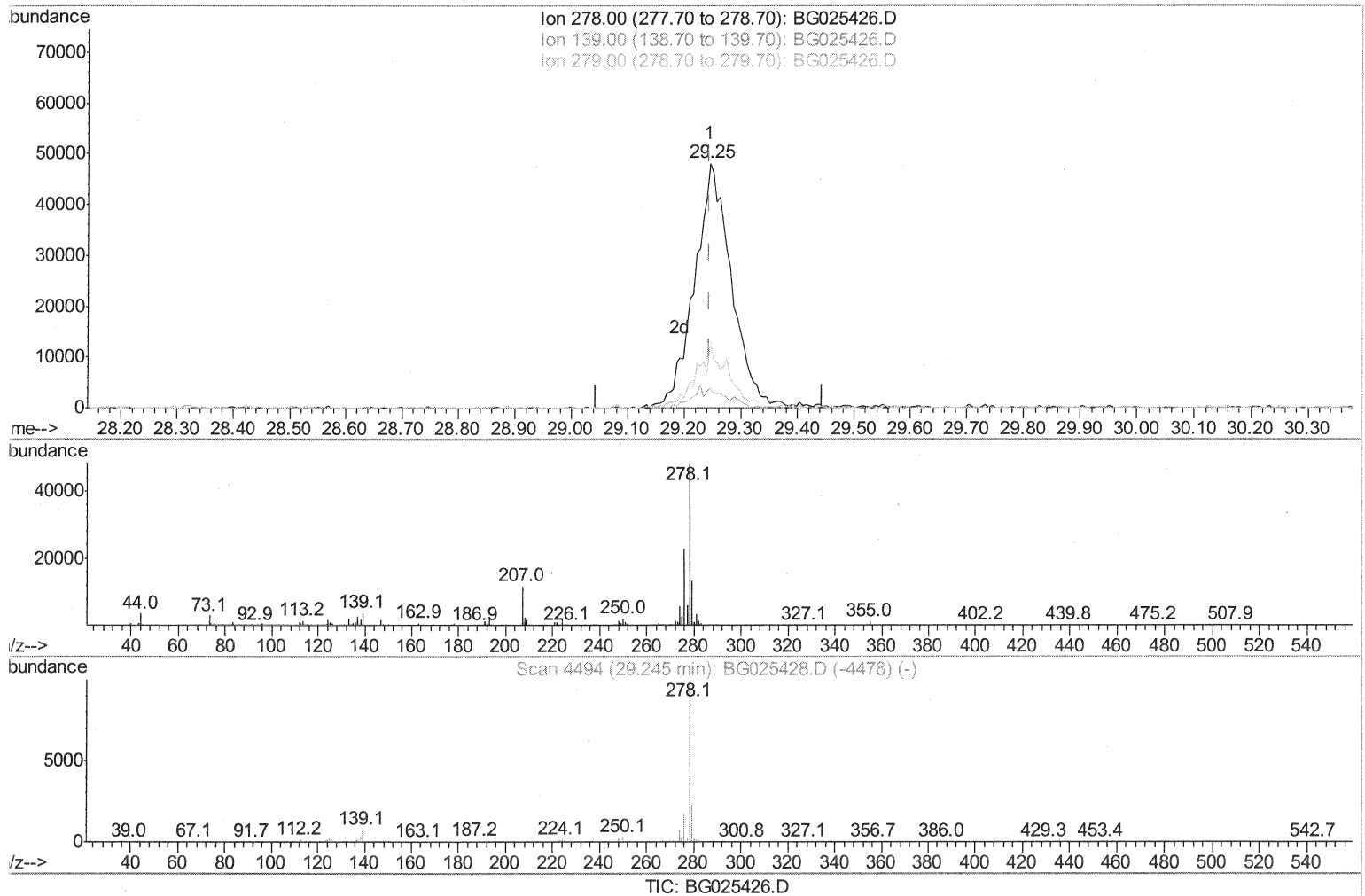
Data Path : Z:\HPCHEM1\BNA G\DATA\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SST00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 12:53:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



(92) Dibenzo(a,h)anthracene

29.245min (+0.000) 4.71ng/ul m

SJ 1/17/17

response 217085

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 278.00 | 100   | 100   |
| 139.00 | 17.40 | 8.10# |
| 279.00 | 23.70 | 27.34 |
| 0.00   | 0.00  | 0.00  |

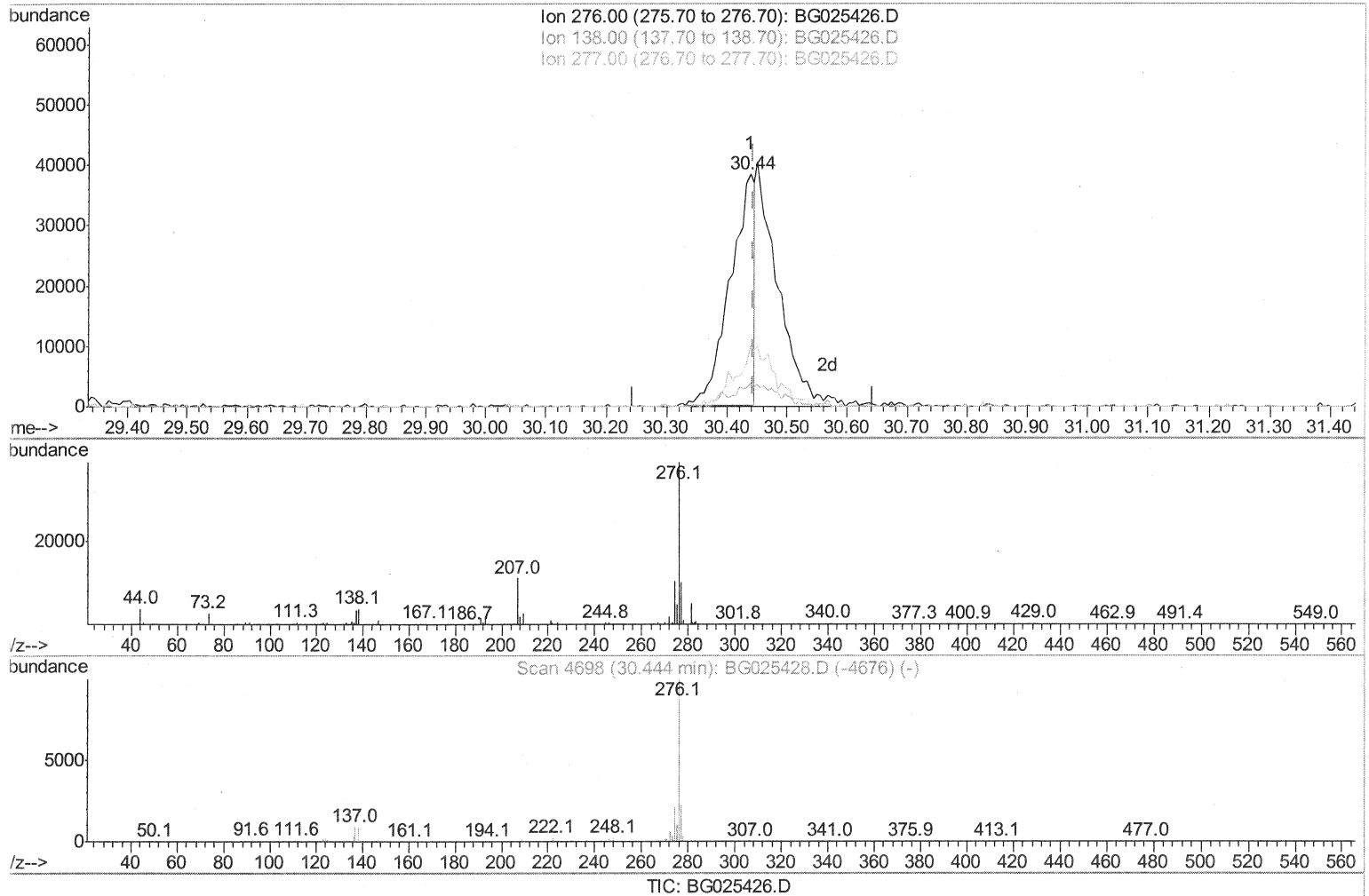
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Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SST00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SST00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 12:53:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



(93) Benzo(g,h,i)perylene

30.438min (-0.006) 2.32ng/ul

response 105965

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 23.60 | 10.02# |
| 277.00 | 24.00 | 26.38  |
| 0.00   | 0.00  | 0.00   |

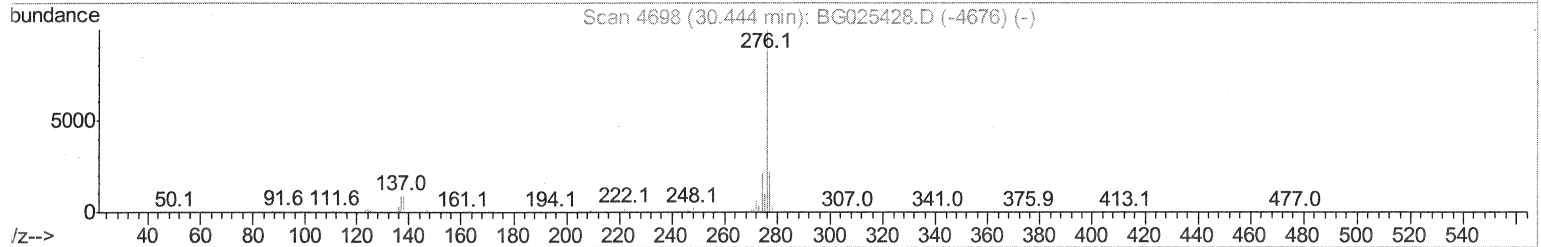
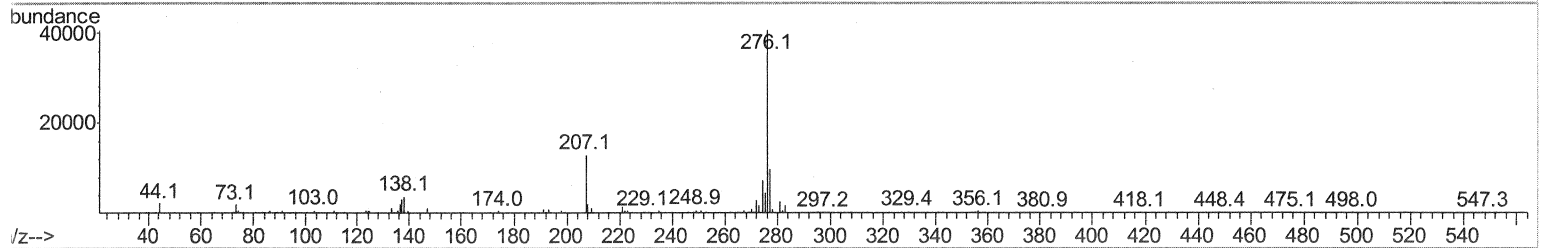
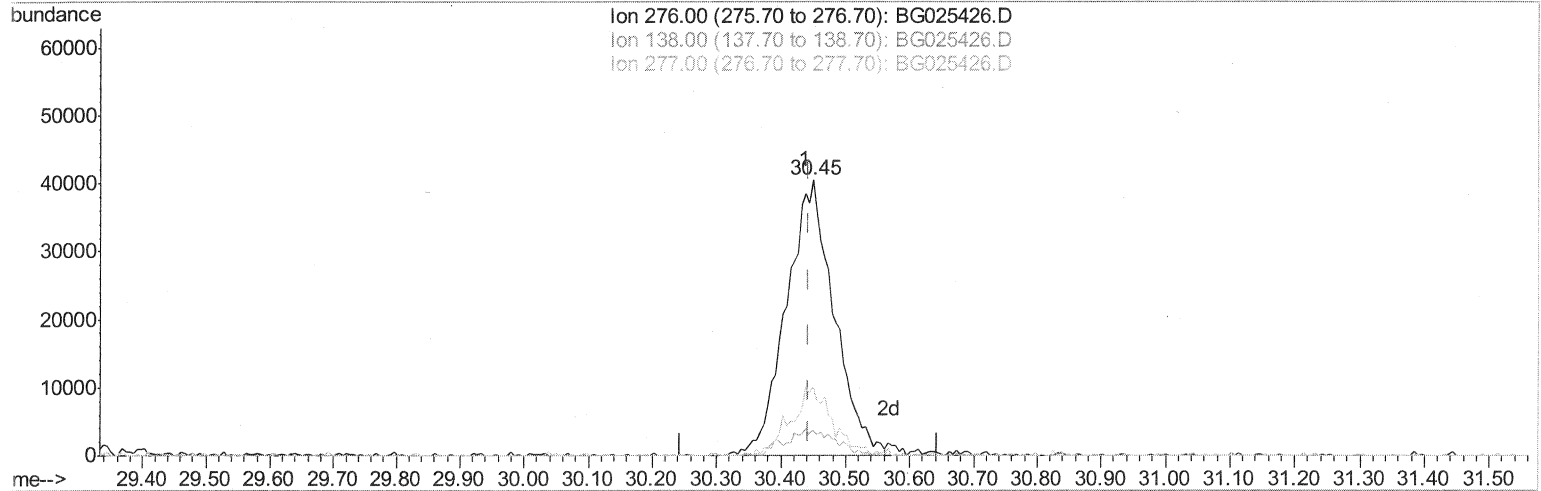
Data Path : Z:\HPCHEM1\BNA G\DATA\BG010417\  
Data File : BG025426.D  
Acq On : 4 Jan 2017 10:20  
Operator : UM/SJ  
Sample : SST00528  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTD00528

Manual Integrations  
APPROVED

Sohil  
1/13/2017 11:57:34 AM

Quant Time: Jan 12 12:53:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG010417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jan 12 12:00:59 2017  
Response via : Initial Calibration



TIC: BG025426.D

(93) Benzo(g,h,i)perylene

30.450min (+0.006) 4.57ng/ul m

SJ 1/17/17

response 208479

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 23.60 | 9.25# |
| 277.00 | 24.00 | 24.34 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG010417\  
 Data File : BG025426.D  
 Acq On : 4 Jan 2017 10:20  
 Operator : UM/SJ  
 Sample : SST00528  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 SST00528

Manual Integrations  
 APPROVED

Sohil  
 1/13/2017 11:57:34 AM

Quant Time: Jan 12 18:22:26 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG010417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jan 12 12:00:59 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.21  | 152  | 71381    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.03 | 136  | 298381   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.83 | 164  | 232568   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.58 | 188  | 550382   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.87 | 240  | 800739   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 25.28 | 264  | 863375   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.55  | 96  | 3026   | 2.00 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 0.00  | 99  | 0d     | 0.00 | ng/ul |      |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0d     | 0.00 | ng/ul |      |
| 9) 2-Chlorophenol-d4           | 7.74  | 132 | 19051  | 4.62 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0d     | 0.00 | ng/ul |      |
| 19) Nitrobenzene-d5            | 9.39  | 128 | 9409   | 4.36 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.12 | 143 | 9997   | 4.14 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.67 | 165 | 16761  | 3.78 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0d     | 0.00 | ng/ul |      |
| 43) Dimethylphthalate-d6       | 14.23 | 166 | 80810  | 5.29 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.53 | 160 | 87926  | 4.81 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0d     | 0.00 | ng/ul |      |
| 57) Fluorene-d10               | 15.82 | 176 | 79783  | 6.00 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0d     | 0.00 | ng/ul |      |
| 70) Anthracene-d10             | 17.68 | 188 | 117877 | 4.90 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.96 | 212 | 148758 | 4.77 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 25.04 | 264 | 174163 | 4.80 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |      | Qvalue    |
|--------------------------------|-------|-----|---------|------|-----------|
| 2) 1,4-Dioxane                 | 3.59  | 88  | 3703m   | 2.01 | ng/uL     |
| 10) 2-Chlorophenol             | 7.78  | 128 | 20985   | 5.00 | ng/ul# 75 |
| 15) N-Nitroso-di-n-propylamine | 9.01  | 70  | 21376   | 6.02 | ng/ul# 64 |
| 17) Hexachloroethane           | 9.29  | 117 | 9639    | 5.03 | ng/ul# 84 |
| 20) Nitrobenzene               | 9.44  | 77  | 31796   | 5.65 | ng/ul# 74 |
| 21) Isophorone                 | 9.94  | 82  | 55984   | 5.60 | ng/ul# 89 |
| 23) 2-Nitrophenol              | 10.16 | 139 | 12168   | 4.91 | ng/ul# 71 |
| 24) 2,4-Dimethylphenol         | 10.20 | 107 | 26711   | 4.85 | ng/ul 95  |
| 25) Bis(2-Chloroethoxy)methane | 10.42 | 93  | 30021   | 5.18 | ng/ul# 94 |
| 27) 2,4-Dichlorophenol         | 10.70 | 162 | 21081   | 4.77 | ng/ul# 84 |
| 28) Naphthalene                | 11.08 | 128 | 65202   | 4.60 | ng/ul# 96 |
| 31) Hexachlorobutadiene        | 11.34 | 225 | 21423   | 5.97 | ng/ul# 84 |
| 33) 4-Chloro-3-methylphenol    | 12.33 | 107 | 22918   | 4.81 | ng/ul 91  |
| 34) 2-Methylnaphthalene        | 12.68 | 142 | 51223   | 5.03 | ng/ul 94  |
| 36) 1,2,4,5-Tetrachlorobenzene | 13.03 | 216 | 39799   | 5.46 | ng/ul# 96 |
| 38) 2,4,6-Trichlorophenol      | 13.29 | 196 | 19117   | 4.54 | ng/ul 97  |
| 39) 2,4,5-Trichlorophenol      | 13.38 | 196 | 21811m> | 4.87 | ng/ul 97  |
| 40) 1,1'-Biphenyl              | 13.66 | 154 | 73000   | 4.74 | ng/ul 93  |
| 41) 2-Chloronaphthalene        | 13.72 | 162 | 59813   | 5.03 | ng/ul# 87 |
| 42) 2-Nitroaniline             | 13.94 | 65  | 20816   | 5.84 | ng/ul# 47 |
| 44) Dimethylphthalate          | 14.28 | 163 | 77225   | 5.16 | ng/ul# 96 |
| 45) 2,6-Dinitrotoluene         | 14.42 | 165 | 15135   | 5.15 | ng/ul# 77 |
| 47) Acenaphthylene             | 14.56 | 152 | 80984   | 4.37 | ng/ul 97  |

51 1/17/17

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG010417\  
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 Misc :  
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Instrument :  
 BNA\_G  
 ClientSampleId :  
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Manual Integrations  
 APPROVED

Sohil  
 1/13/2017 11:57:34 AM

Quant Time: Jan 12 18:22:26 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG010417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jan 12 12:00:59 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 49) Acenaphthene               | 14.90 | 153  | 60947    | 4.78 | ng/ul  | 94       |
| 53) Dibenzofuran               | 15.23 | 168  | 95069    | 5.16 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 15.22 | 165  | 22168    | 5.10 | ng/ul# | 42       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.47 | 232  | 22625    | 5.40 | ng/ul# | 84       |
| 56) Diethylphthalate           | 15.62 | 149  | 82658    | 5.51 | ng/ul  | 98       |
| 58) Fluorene                   | 15.88 | 166  | 76731    | 5.09 | ng/ul  | 90       |
| 59) 4-Chlorophenyl-phenylether | 15.85 | 204  | 44983    | 5.57 | ng/ul# | 84       |
| 64) N-Nitrosodiphenylamine     | 16.08 | 169  | 69089    | 4.57 | ng/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.75 | 248  | 31478    | 5.13 | ng/ul# | 81       |
| 66) Hexachlorobenzene          | 16.88 | 284  | 37468    | 5.47 | ng/ul# | 87       |
| 69) Phenanthrene               | 17.62 | 178  | 135209   | 4.76 | ng/ul  | 97       |
| 71) Anthracene                 | 17.72 | 178  | 130163   | 4.54 | ng/ul  | 96       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.64 | 216  | 39664    | 4.81 | ng/uL  | 87       |
| 73) Pentachlorobenzene         | 15.14 | 250  | 40638    | 4.88 | ng/uL  | 92       |
| 75) Di-n-butylphthalate        | 18.50 | 149  | 150254   | 5.22 | ng/ul# | 95       |
| 79) Pyrene                     | 19.99 | 202  | 181437   | 4.55 | ng/ul# | 87       |
| 80) Butylbenzylphthalate       | 20.83 | 149  | 69490    | 4.72 | ng/ul# | 75       |
| 82) Benzo(a)anthracene         | 21.85 | 228  | 210516   | 5.06 | ng/ul  | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.70 | 149  | 104918   | 4.86 | ng/ul# | 94       |
| 84) Chrysene                   | 21.92 | 228  | 198758   | 4.97 | ng/ul  | 96       |
| 87) Benzo(b)fluoranthene       | 24.19 | 252  | 207410   | 4.50 | ng/ul# | 92       |
| 88) Benzo(k)fluoranthene       | 24.26 | 252  | 204677   | 4.57 | ng/ul# | 94       |
| 90) Benzo(a)pyrene             | 25.11 | 252  | 205939   | 4.61 | ng/ul# | 89       |
| 91) Indeno(1,2,3-cd)pyrene     | 29.20 | 276  | 255727m  | 4.67 | ng/ul  |          |
| 92) Dibenzo(a,h)anthracene     | 29.25 | 278  | 217085m  | 4.71 | ng/ul  |          |
| 93) Benzo(g,h,i)perylene       | 30.45 | 276  | 208479m  | 4.57 | ng/ul  |          |

51 1/17/17

(#) = qualifier out of range (m) = manual integration (+) = signals summed