

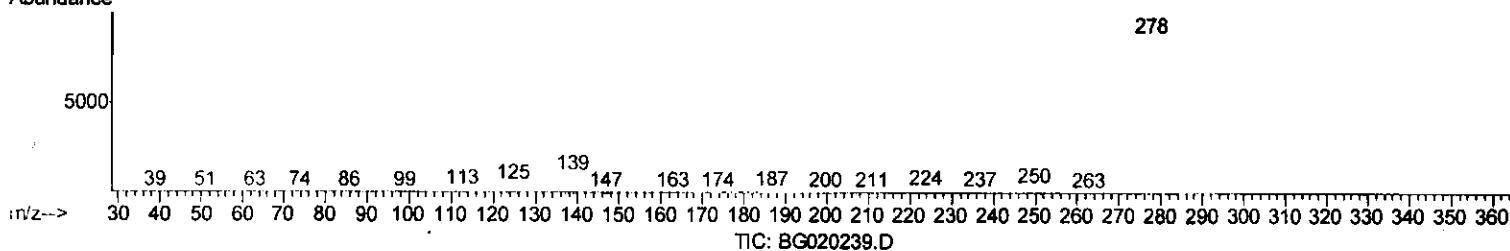
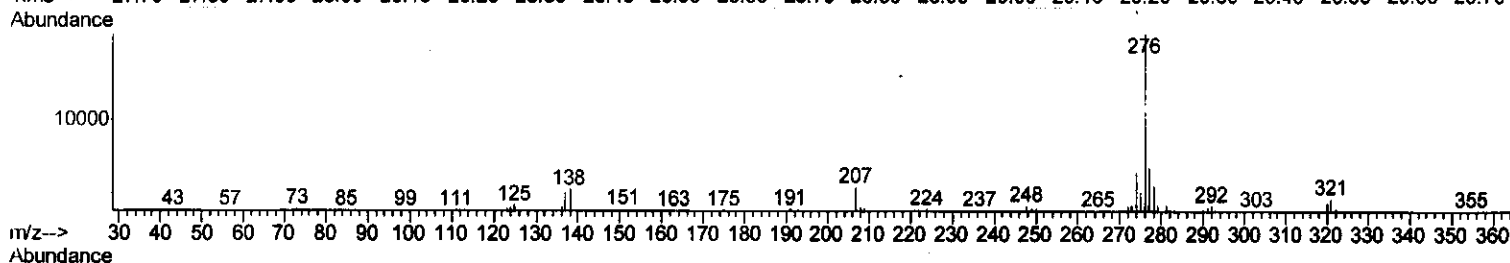
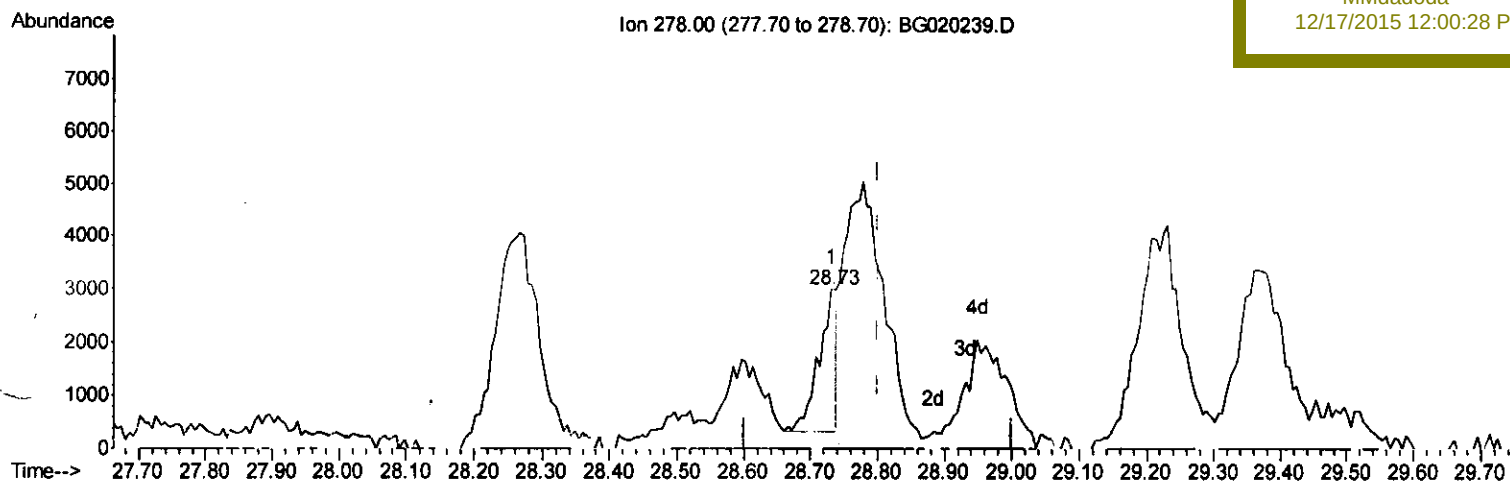
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
Data File : BG020239.D  
Acq On : 17 Dec 2015 2:47  
Operator : UM/SJ  
Sample : G4767-19  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 04:01:58 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
Qlast Update : Thu Dec 17 03:53:00 2015  
Response via : Initial Calibration

Instrument :  
BNA\_G  
ClientSampled :  
D9N41

Manual Integrations  
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(93) Dibenzo(a,h)anthracene

28.731min (-0.070) 0.47ng/ul

response 4762

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 278.00 | 100   | 100   |
| 139.00 | 11.80 | 0.00# |
| 279.00 | 24.20 | 26.11 |
| 0.00   | 0.00  | 0.00  |

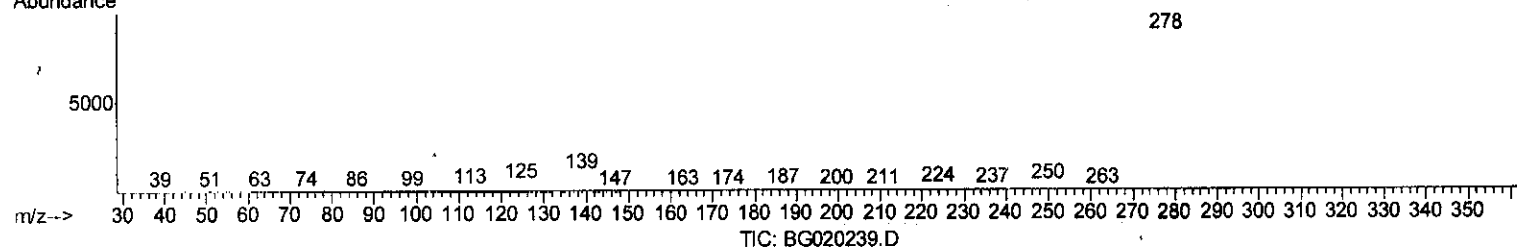
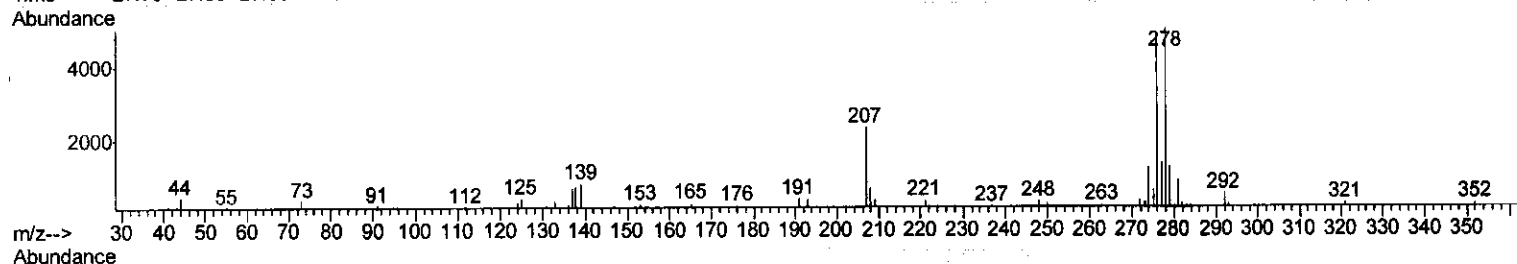
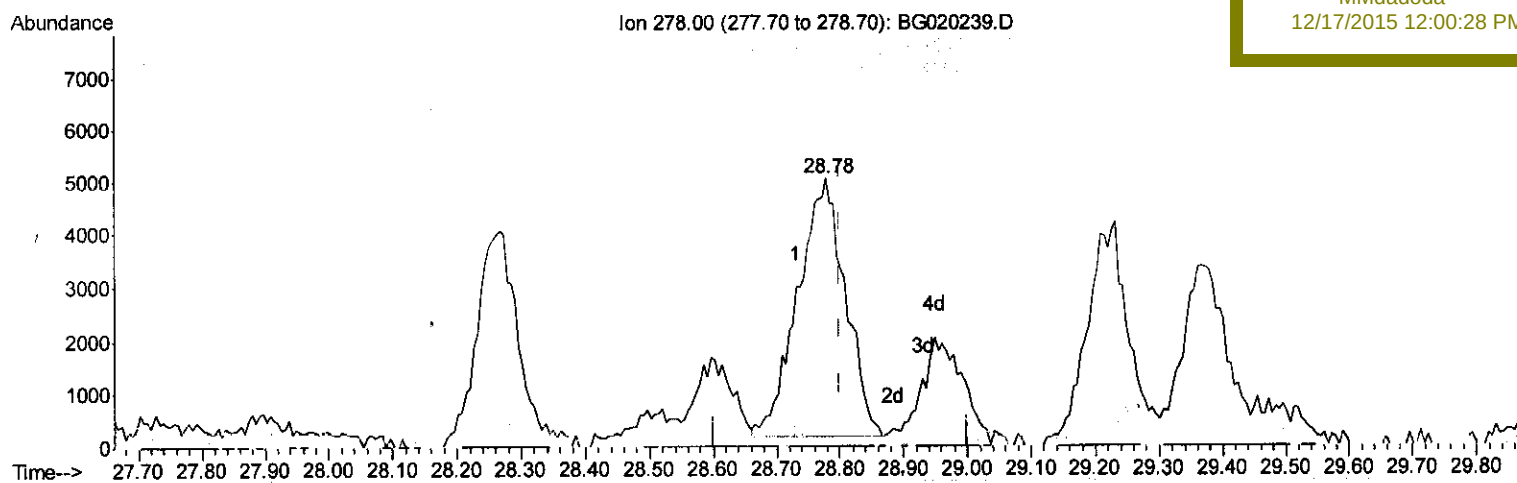
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
 Data File : BG020239.D  
 Acq On : 17 Dec 2015 2:47  
 Operator : UM/SJ  
 Sample : G4767-19  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 04:01:58 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 17 03:53:00 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Manual Integrations  
 APPROVED

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(93) Dibenzo(a,h)anthracene

28.778min (-0.023) 2.50ng/ul m

response 25334

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 11.80 | 15.71# |
| 279.00 | 24.20 | 24.99  |
| 0.00   | 0.00  | 0.00   |

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# Quantitation Report (Qedit)

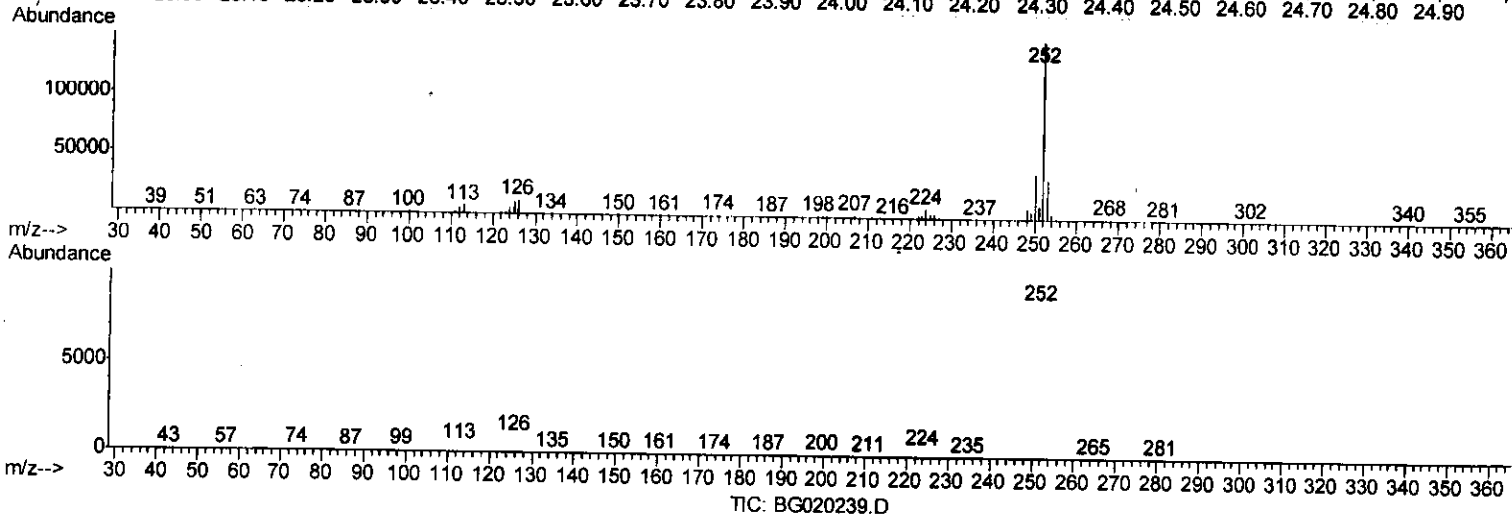
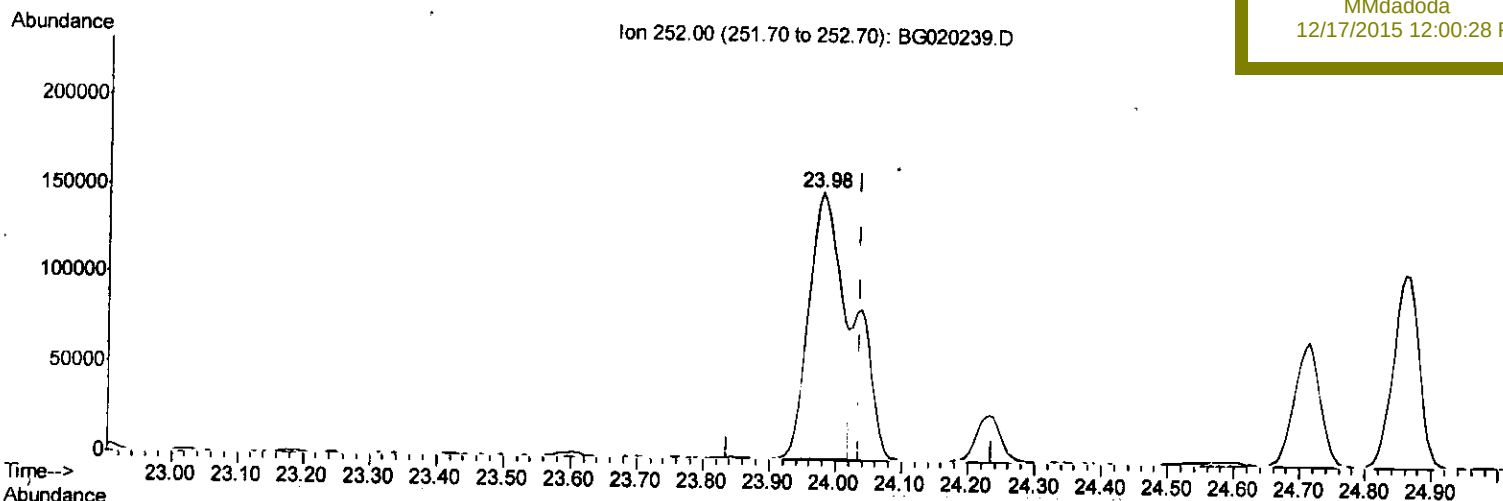
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
 Data File : BG020239.D  
 Acq On : 17 Dec 2015 2:47  
 Operator : UM/SJ  
 Sample : 04267-19  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Quant Time: Dec 17 04:01:58 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 17 03:53:00 2015  
 Response via : Initial Calibration

Manual Integrations  
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(89) Benzo(k)fluoranthene

23.978min (-0.058) 48.77ng/ui

response 506167

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.40 | 21.83 |
| 125.00 | 7.20  | 6.69  |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

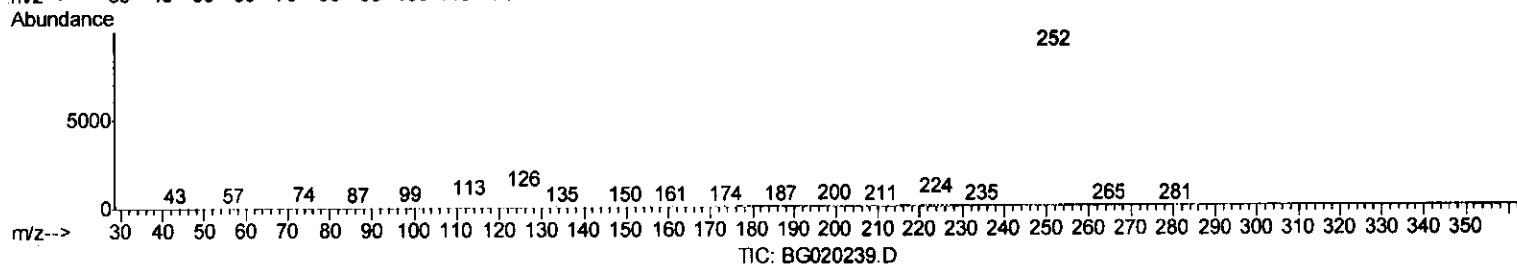
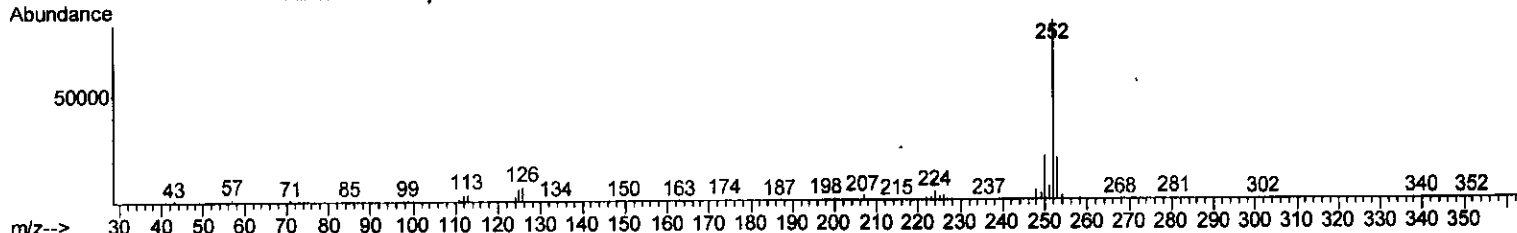
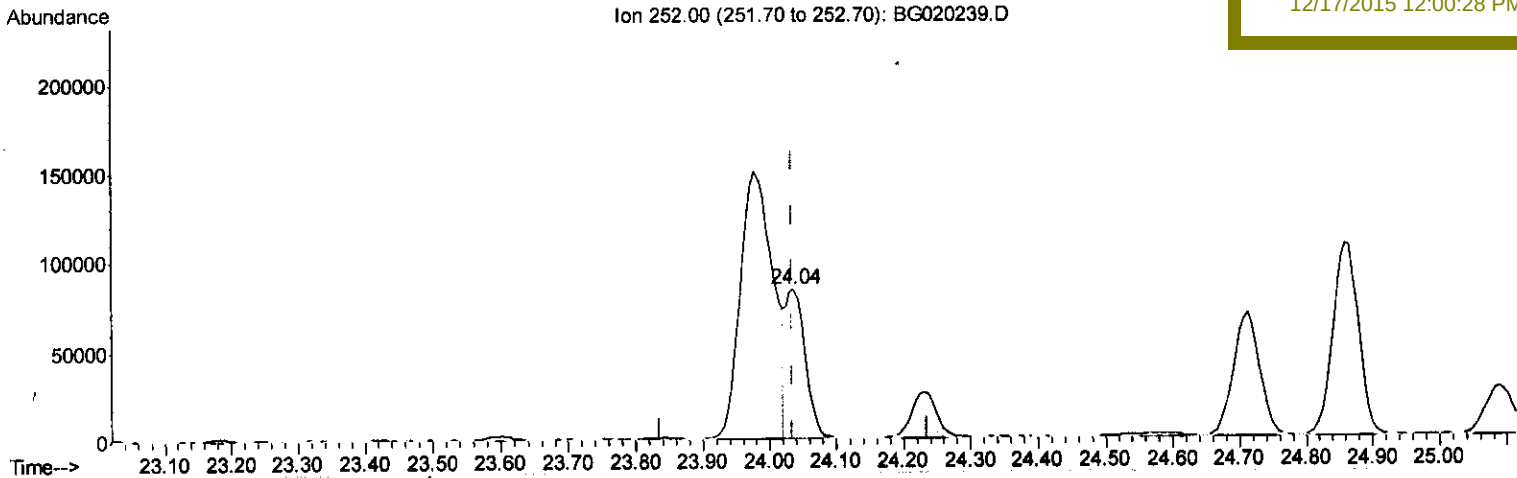
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
 Data File : BG020239.D  
 Acq On : 17 Dec 2015 2:47  
 Operator : UM/SJ  
 Sample : G4767-19  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Quant Time: Dec 17 04:01:58 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 17 03:53:00 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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(89) Benzo(k)fluoranthene

24.037min (+0.001) 16.48ng/ul m

response 171042

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.40 | 23.65 |
| 125.00 | 7.20  | 7.36  |
| 0.00   | 0.00  | 0.00  |

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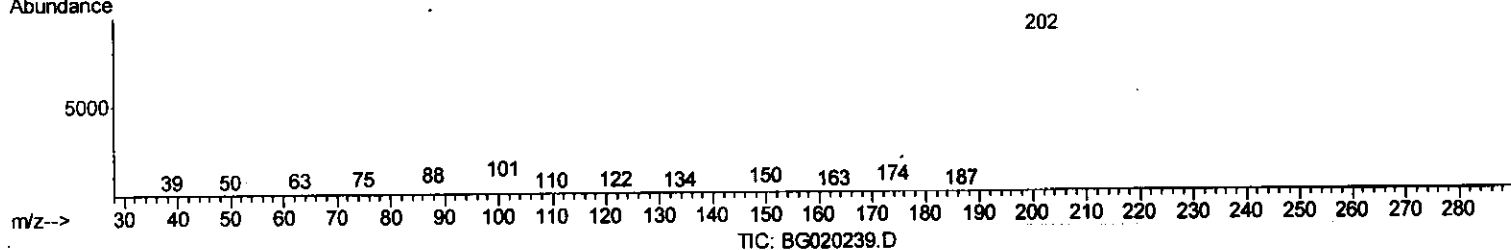
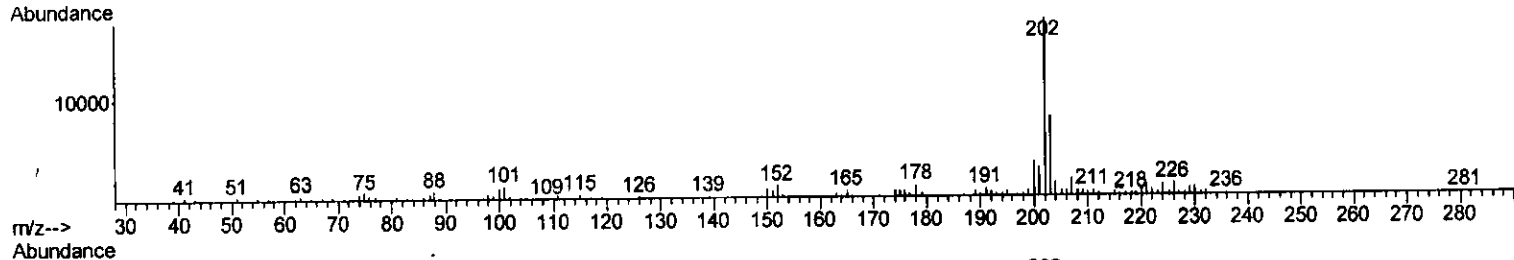
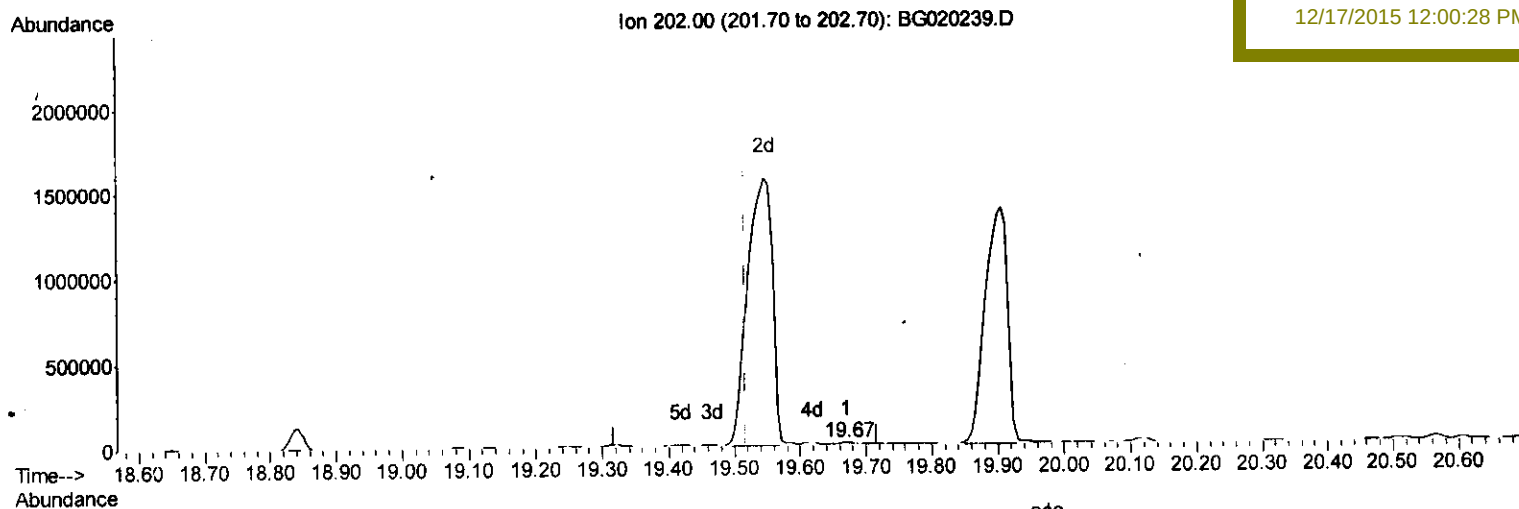
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
Data File : BG020239.D  
Acq On : 17 Dec 2015 2:47  
Operator : UM/SJ  
Sample : G4767-19  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 04:01:58 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 17 03:53:00 2015  
Response via : Initial Calibration

Instrument :  
BNA\_G  
ClientSampleId :  
D9N41

Manual Integrations  
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(77) Fluoranthene (C)

19.671min (+0.154) 1.84ng/ul

response 18707

| Ion    | Exp% | Act% |
|--------|------|------|
| 202.00 | 100  | 100  |
| 101.00 | 7.80 | 7.97 |
| 100.00 | 6.40 | 6.03 |
| 0.00   | 0.00 | 0.00 |

# Quantitation Report (Qedit)

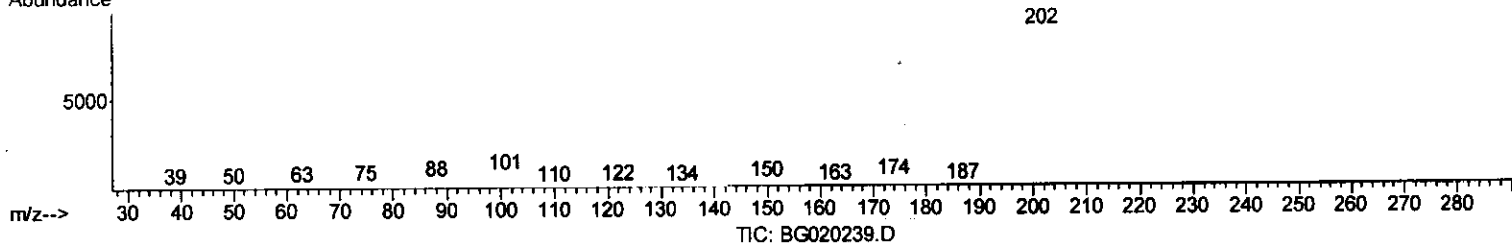
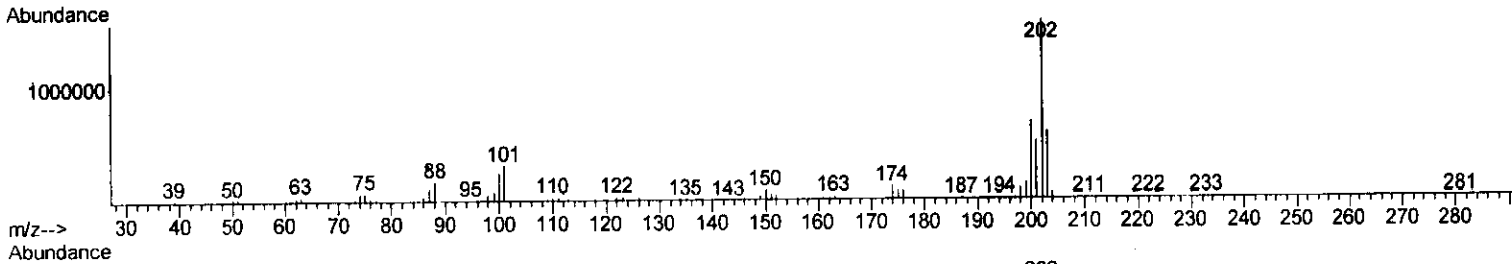
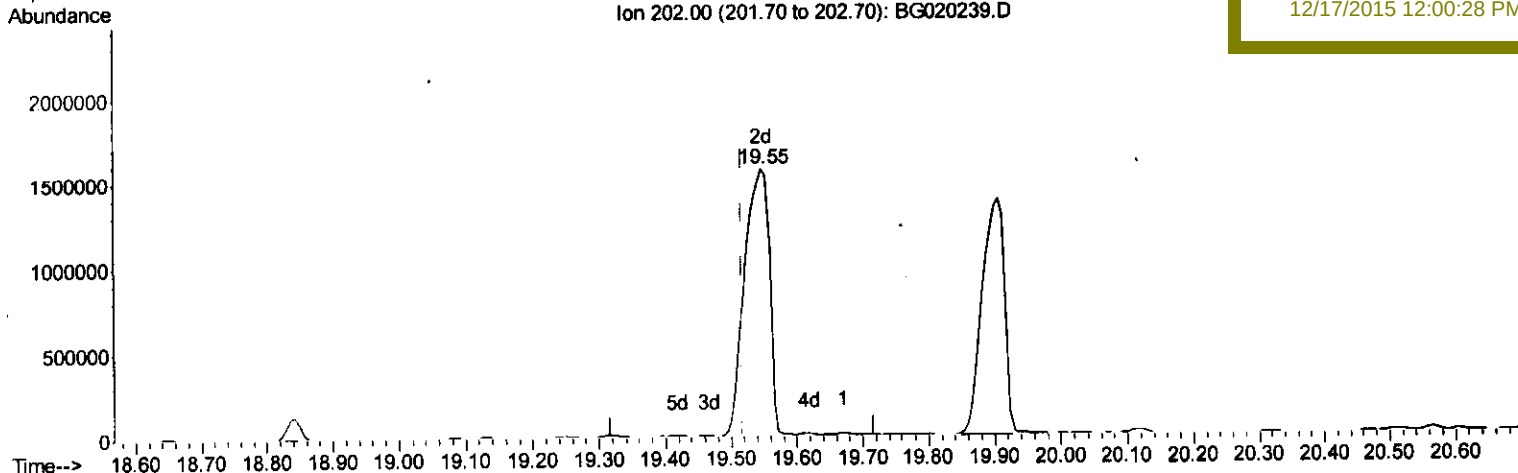
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
 Data File : BG020239.D  
 Acq On : 17 Dec 2015 2:47  
 Operator : UM/SJ  
 Sample : G4767-19  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 04:01:58 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 17 03:53:00 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Manual Integrations  
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(77) Fluoranthene (C)

19.548min (+0.030) 404.36ng/ul m

response 4103204

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 202.00 | 100  | 100    |
| 101.00 | 7.80 | 19.57# |
| 100.00 | 6.40 | 15.87# |
| 0.00   | 0.00 | 0.00   |

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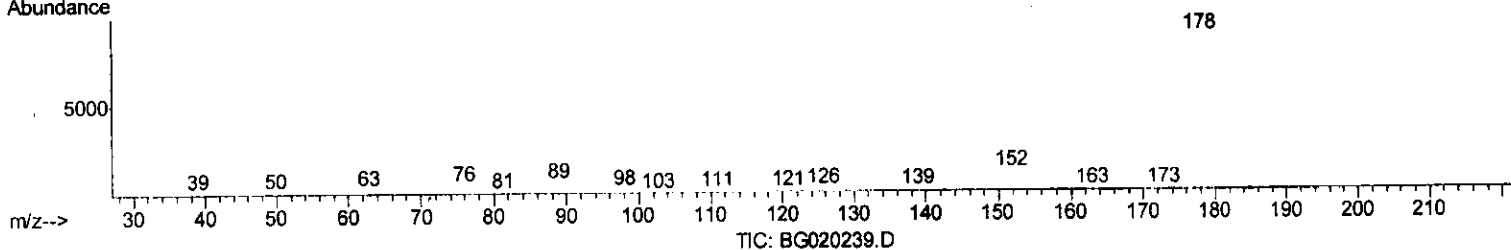
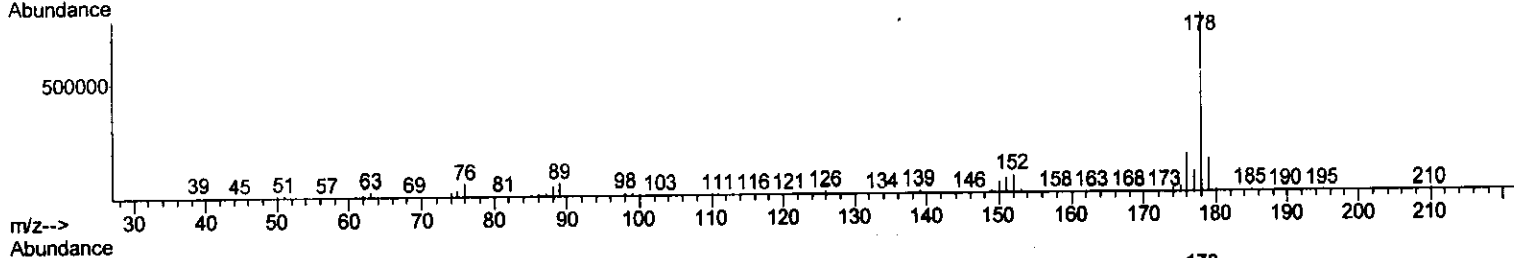
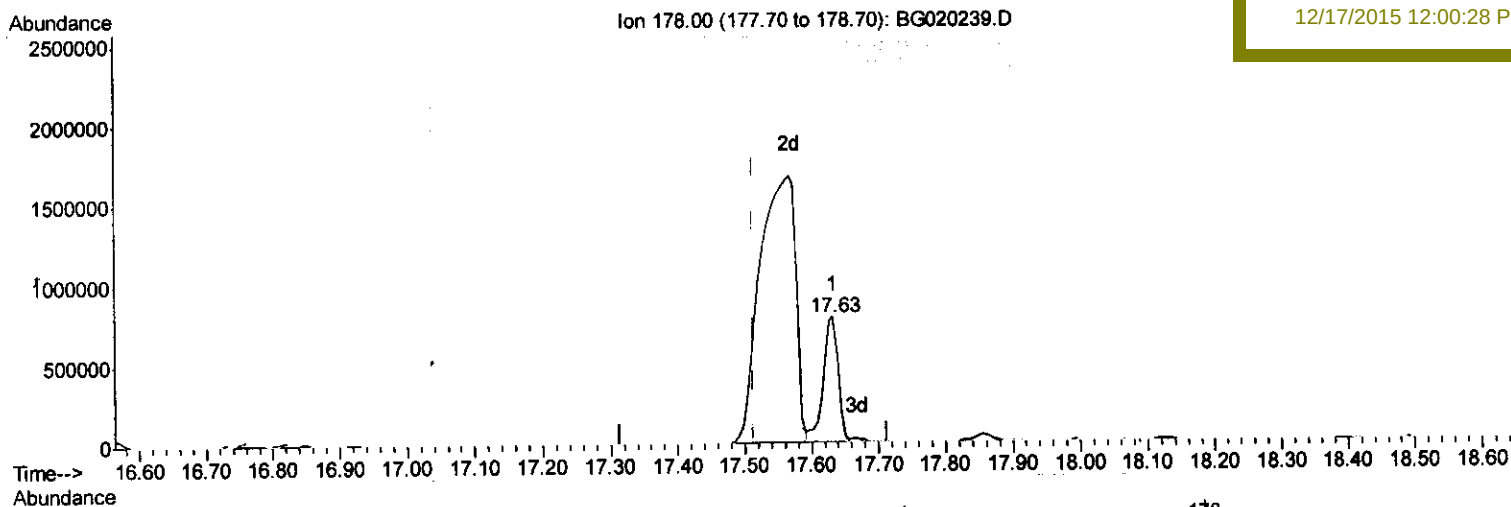
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
Data File : BG020239.D  
Acq On : 17 Dec 2015 2:47  
Operator : UM/SJ  
Sample : G4767-19  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 04:01:58 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 17 03:53:00 2015  
Response via : Initial Calibration

Instrument :  
BNA\_G  
ClientSampleId :  
D9N41

Manual Integrations  
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(70) Phenanthrene

17.632min (+0.118) 138.61ng/ul

response 1203515

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 16.10 | 18.70 |
| 176.00 | 19.10 | 21.55 |
| 0.00   | 0.00  | 0.00  |

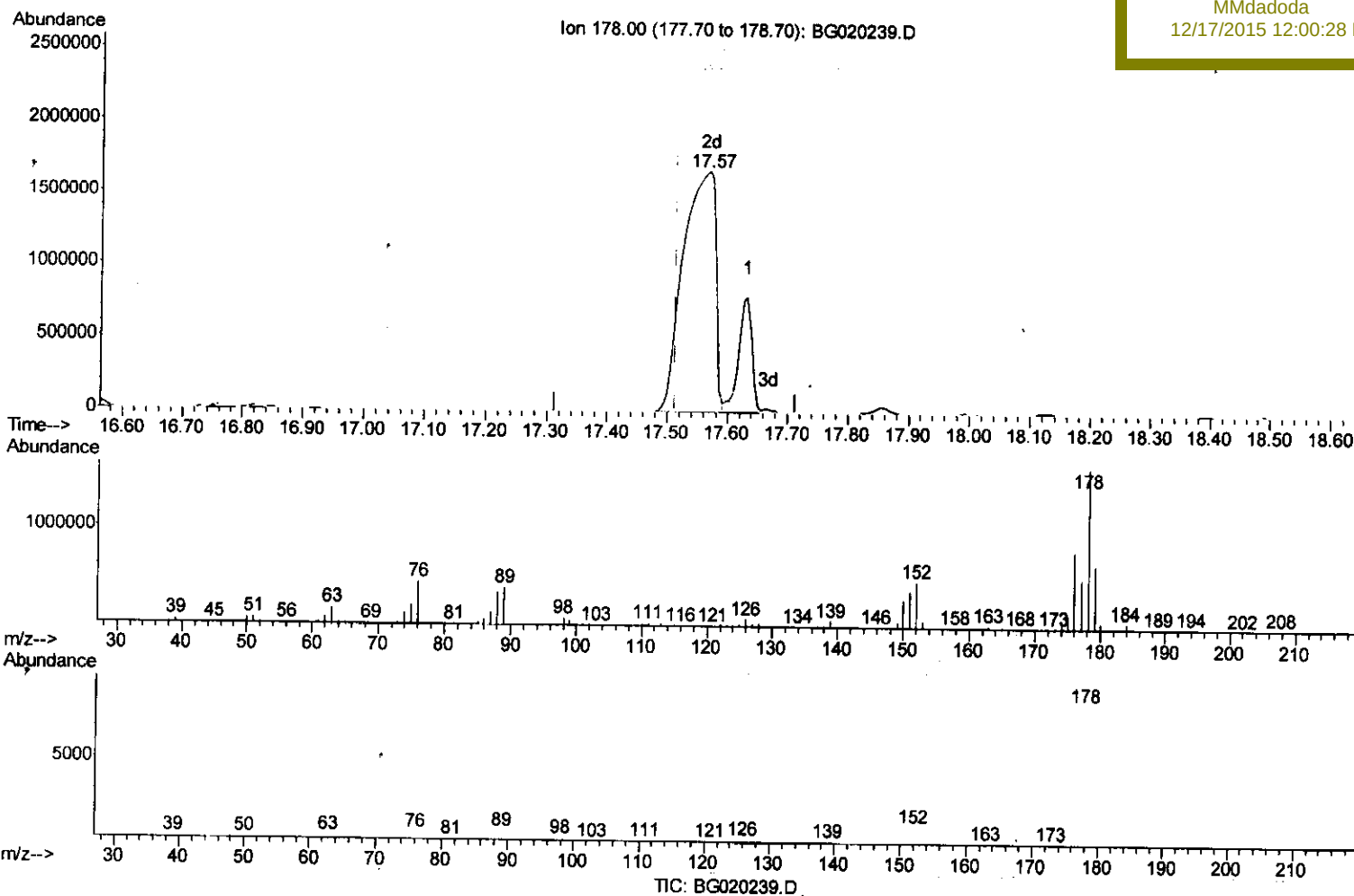
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
 Data File : BG020239.D  
 Acq On : 17 Dec 2015 2:47  
 Operator : UM/SJ  
 Sample : G4767-19  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Quant Time: Dec 17 04:01:58 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 17 03:53:00 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 12/17/2015 12:00:28 PM



(70) Phenanthrene

17.568min (+0.054) 715.20ng/ul m

response 6209776

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 16.10 | 38.98# |
| 176.00 | 19.10 | 47.15# |
| 0.00   | 0.00  | 0.00   |

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Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
 Data File : BG020239.D  
 Acq On : 17 Dec 2015 2:47  
 Operator : UM/SJ  
 Sample : G4767-19  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 05:59:43 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 17 03:53:00 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Manual Integrations  
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| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.10  | 152  | 21395    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.92 | 136  | 99750    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.73 | 164  | 75740    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.49 | 188  | 158735   | 20.00 | ng/ul | 0.01     |
| 78) Chrysene-d12          | 21.75 | 240  | 188873   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.01 | 264  | 179681   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.47  | 96  | 1783   | 4.60  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.24  | 99  | 58805  | 31.17 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.42  | 67  | 34871  | 30.98 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.63  | 132 | 45372  | 33.07 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.80  | 113 | 53164  | 32.95 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.27  | 128 | 26212  | 33.71 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.99  | 143 | 30685  | 35.46 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.54 | 165 | 57728  | 32.94 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 11.05 | 131 | 70040  | 35.58 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.14 | 166 | 182532 | 29.79 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.42 | 160 | 207412 | 29.10 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.92 | 143 | 28489  | 25.93 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.72 | 176 | 154582 | 27.82 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.82 | 200 | 59     | 0.06  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.60 | 188 | 224835 | 30.74 | ng/ul | 0.03 |
| 79) Pyrene-d10                 | 19.86 | 212 | 262353 | 29.80 | ng/ul | 0.01 |
| 90) Benzo(a)pyrene-d12         | 24.79 | 264 | 287005 | 32.02 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |          |        | Qvalue |    |
|----------------------------|-------|-----|----------|--------|--------|----|
| 6) Phenol                  | 7.27  | 94  | 2640     | 1.31   | ng/ul# | 82 |
| 28) Naphthalene            | 10.99 | 128 | 3628796  | 696.62 | ng/ul# | 77 |
| 34) 2-Methylnaphthalene    | 12.58 | 142 | 1476421  | 371.06 | ng/ul  | 99 |
| 35) 1-Methylnaphthalene    | 12.79 | 142 | 773999   | 202.34 | ng/ul# | 95 |
| 41) 1,1'-Biphenyl          | 13.57 | 154 | 671689   | 117.55 | ng/ul  | 98 |
| 45) Dimethylphthalate      | 14.18 | 163 | 82467    | 13.18  | ng/ul  | 98 |
| 48) Acenaphthylene         | 14.45 | 152 | 232631   | 30.72  | ng/ul# | 97 |
| 50) Acenaphthene           | 14.82 | 153 | 2442641  | 479.42 | ng/ul# | 88 |
| 54) Dibenzofuran           | 15.15 | 168 | 2463953  | 325.09 | ng/ul# | 78 |
| 59) Fluorene               | 15.80 | 166 | 2347173  | 385.64 | ng/ul# | 97 |
| 70) Phenanthrene           | 17.57 | 178 | 6209776m | 715.20 | ng/ul  |    |
| 72) Anthracene             | 17.63 | 178 | 1207037  | 137.06 | ng/ul# | 92 |
| 75) Carbazole              | 17.89 | 167 | 907140   | 122.59 | ng/ul  | 95 |
| 77) Fluoranthene           | 19.55 | 202 | 4103204m | 404.36 | ng/ul  |    |
| 80) Pyrene                 | 19.91 | 202 | 3263064  | 285.45 | ng/ul# | 79 |
| 83) Benzo(a)anthracene     | 21.73 | 228 | 1035270  | 93.94  | ng/ul  | 94 |
| 85) Chrysene               | 21.80 | 228 | 869306   | 83.75  | ng/ul  | 94 |
| 88) Benzo(b)fluoranthene   | 23.98 | 252 | 506167   | 46.80  | ng/ul  | 98 |
| 89) Benzo(k)fluoranthene   | 24.04 | 252 | 171042m  | 16.48  | ng/ul  |    |
| 91) Benzo(a)pyrene         | 24.86 | 252 | 289992   | 28.29  | ng/ul  | 99 |
| 92) Indeno(1,2,3-cd)pyrene | 28.73 | 276 | 86947    | 7.12   | ng/ul  | 94 |
| 93) Dibenzo(a,h)anthracene | 28.78 | 278 | 25334m   | 2.50   | ng/ul  |    |
| 94) Benzo(g,h,i)perylene   | 29.89 | 276 | 69555    | 6.95   | ng/ul  | 96 |

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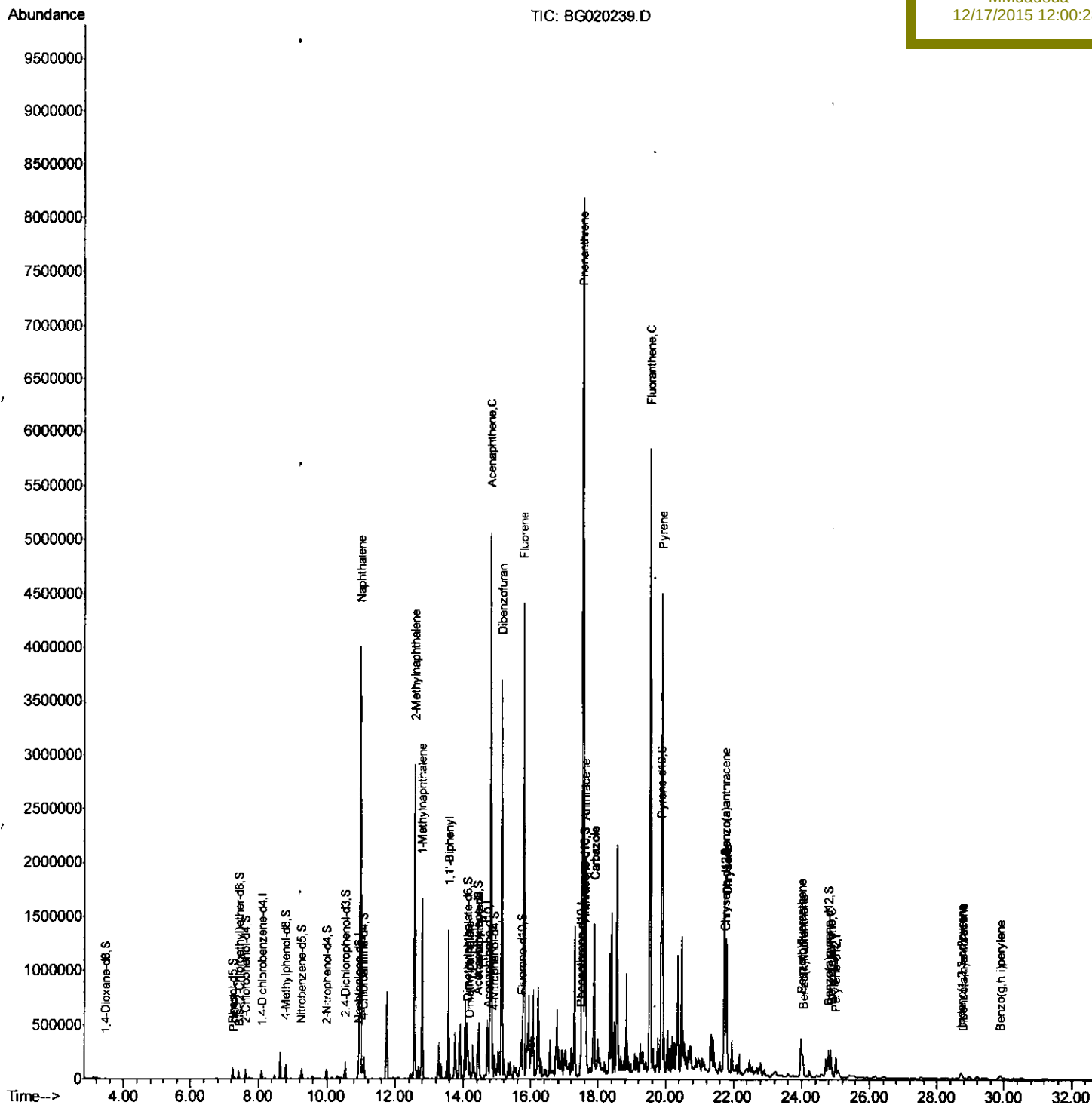
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
Data File : BG020239.D  
Acq On : 17 Dec 2015 2:47  
Operator : UM/SJ  
Sample : G4767-19  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 05:59:43 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 17 03:53:00 2015  
Response via : Initial Calibration

Instrument :  
BNA\_G  
ClientSampleId :  
D9N41

Manual Integrations  
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Data Path : Z:\HPCHEM1\BNA\_G\Data\BG121715\  
 Data File : BG020239.D  
 Acq On : 17 Dec 2015 2:47  
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Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N41

Manual Integrations  
 APPROVED

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 12/17/2015 12:00:28 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------|------|------|----------|------|-------|-----------|
|--------------------|------|------|----------|------|-------|-----------|

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