

# Quantitation Report (QT Reviewed)

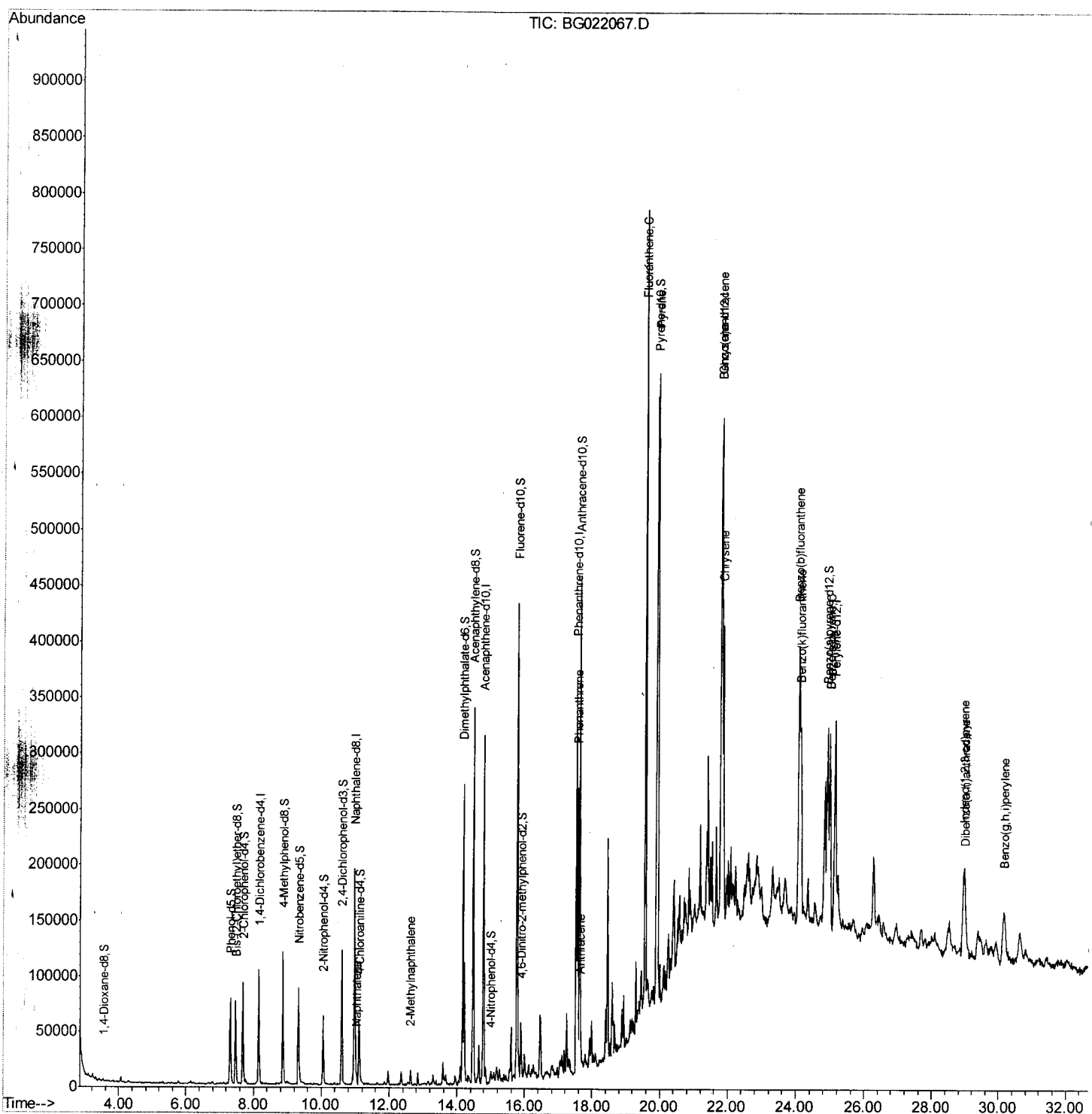
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA G  
 ClientSampleId :  
 D9XJ1

Manual Integrations  
 APPROVED

sohil  
 5/26/2016 6:42:46 PM

Quant Time: May 26 03:35:47 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG051816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 26 03:11:46 2016  
 Response via : Initial Calibration



## Quantitation Report (Qedit)

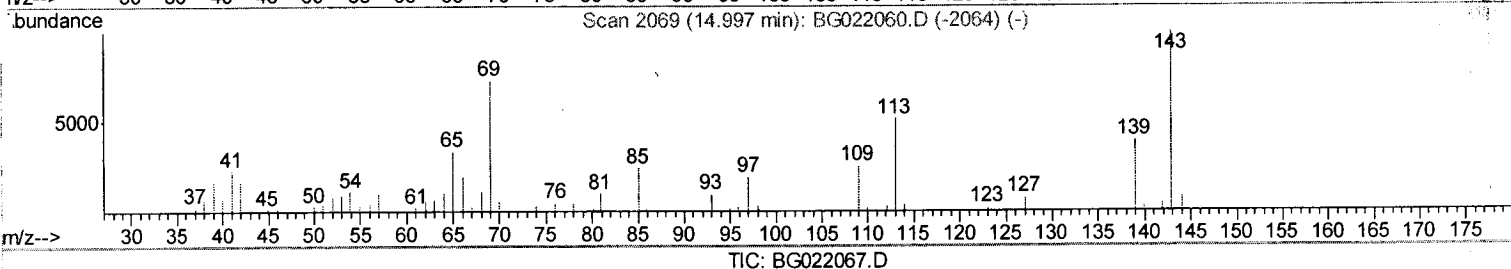
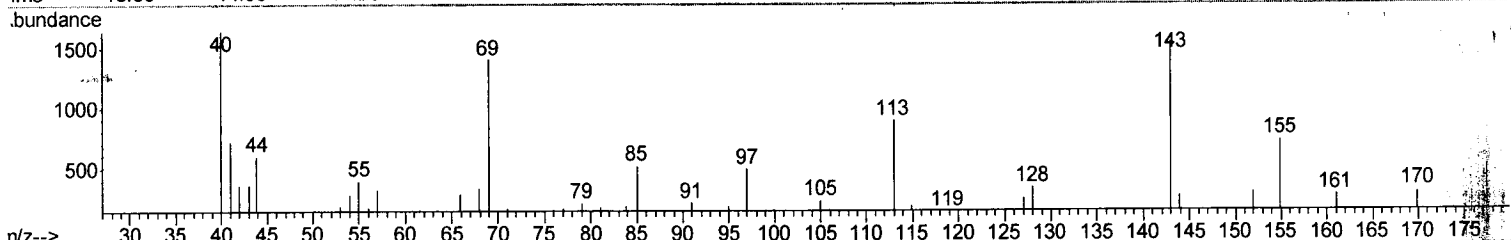
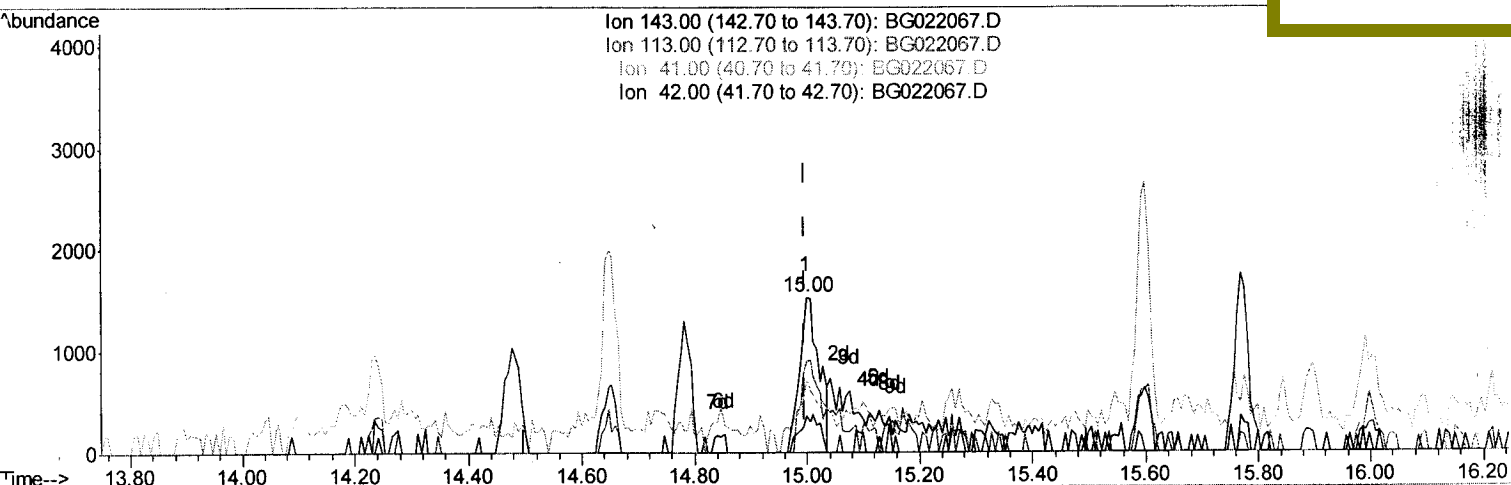
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
Data File : BG022067.D  
Acq On : 25 May 2016 20:43  
Operator : UM/SJ  
Sample : H3203-17  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
D9XJ1

Quant Time: May 26 03:12:40 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG051816.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 26 03:11:46 2016  
Response via : Initial Calibration

## Manual Integrations APPROVED

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(20) 4-Nitrophenol-d4 (S)

14.999min (+0.002) 2.28ng/ul

response 3690

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100    | 100    |
| 113.00 | 102.70 | 58.36# |
| 41.00  | 49.70  | 47.13  |
| 42.00  | 33.70  | 24.09# |

## Quantitation Report (Qedit)

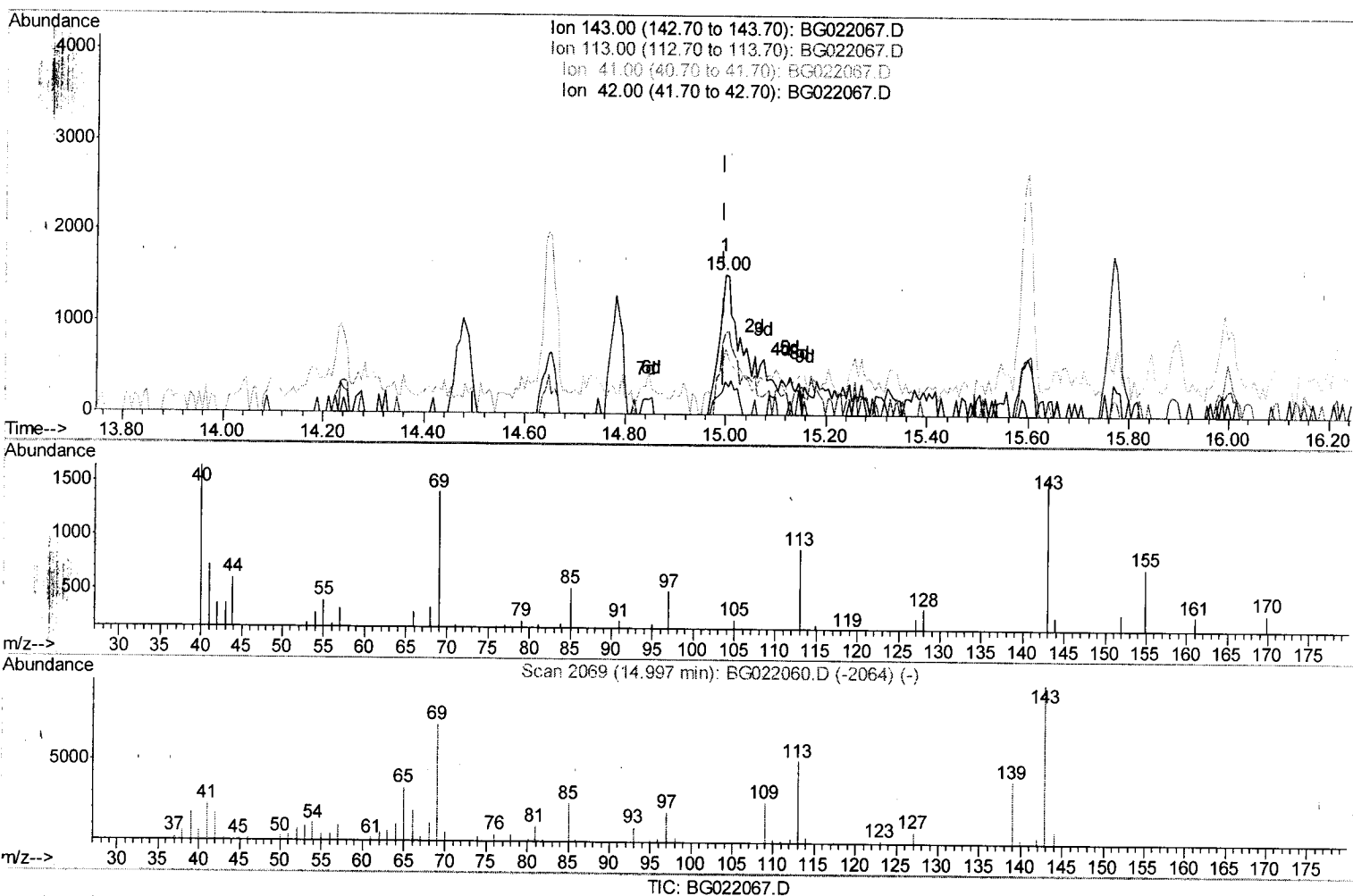
```
Data Path   : Z:\HPCHEM1\BNA_G\DATA\BG052516\  
Data File  : BG022067.D  
Acq On     : 25 May 2016   20:43  
Operator   : UM/SJ  
Sample     : H3203-17  
Misc       :  
ALS Vial   : 9      Sample Multiplier: 1
```

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
D9XJ1

## Manual Integrations

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Quant Time: May 26 03:12:40 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG051816.M  
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(20) 4-Nitrophenol-d4 (S)

14.999min (+0.002) 4.06ng/ul m

response 6586

| Ion | Exp% | Act% |
|-----|------|------|
|-----|------|------|

|        |     |     |
|--------|-----|-----|
| 143.00 | 100 | 100 |
|--------|-----|-----|

113.00      102.70      58.36#

|       |       |       |
|-------|-------|-------|
| 41.00 | 49.70 | 47.13 |
|-------|-------|-------|

42.00      33.70      24.09#

# Quantitation Report (Qedit)

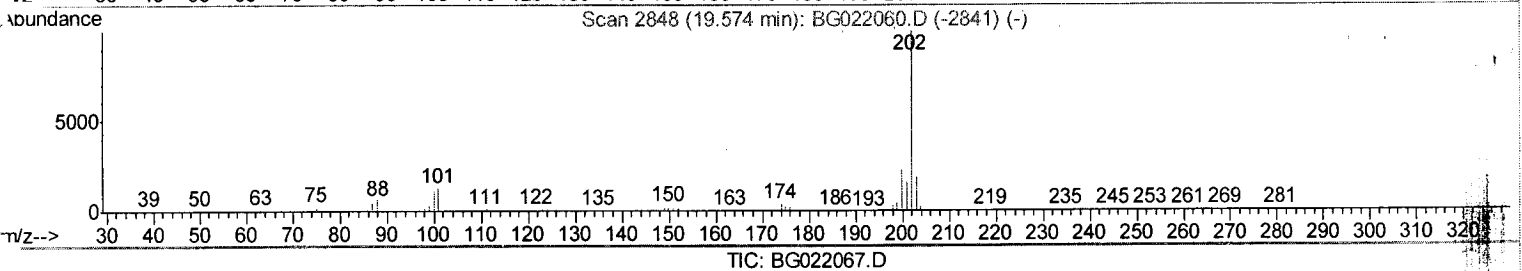
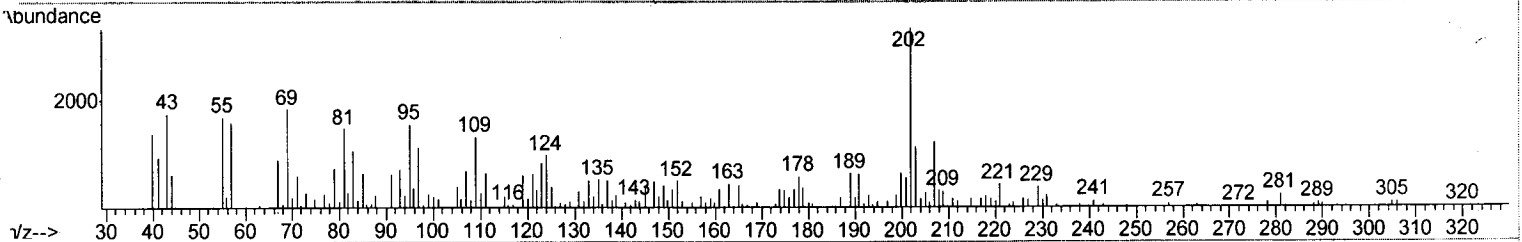
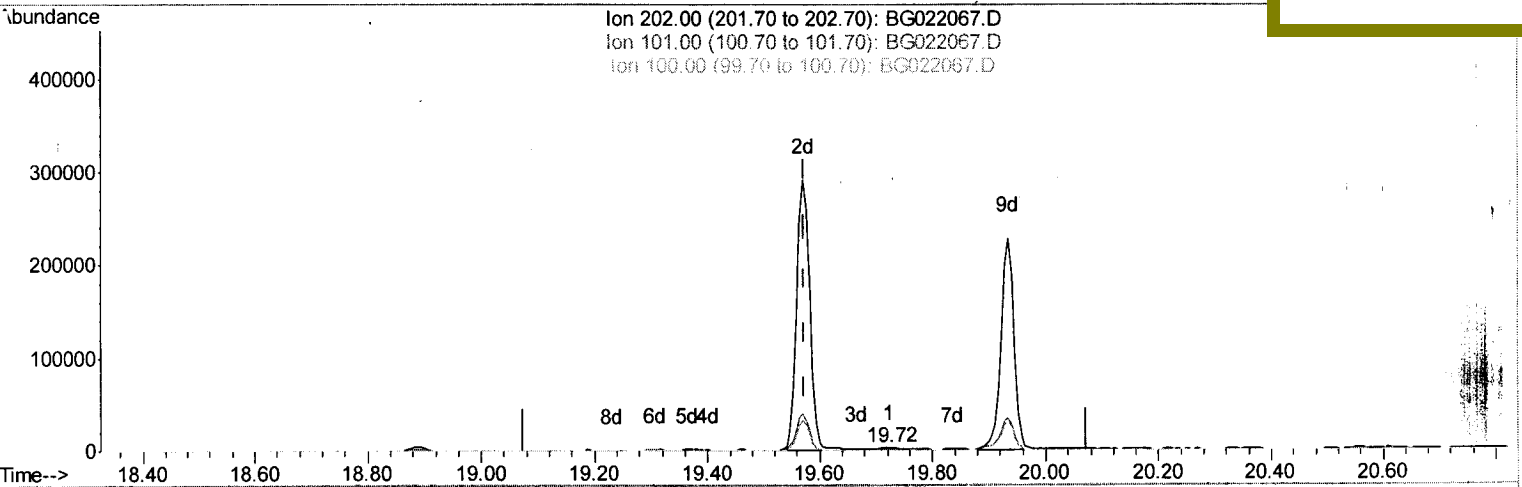
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

**Instrument :**  
 BNA\_G  
**ClientSampleId :**  
 D9XJ1

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**Manual Integrations**  
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(28) Fluoranthene (C)

19.723min (+0.149) 0.27ng/ul

response 3448

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 11.10 | 9.15  |
| 100.00 | 8.70  | 10.41 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

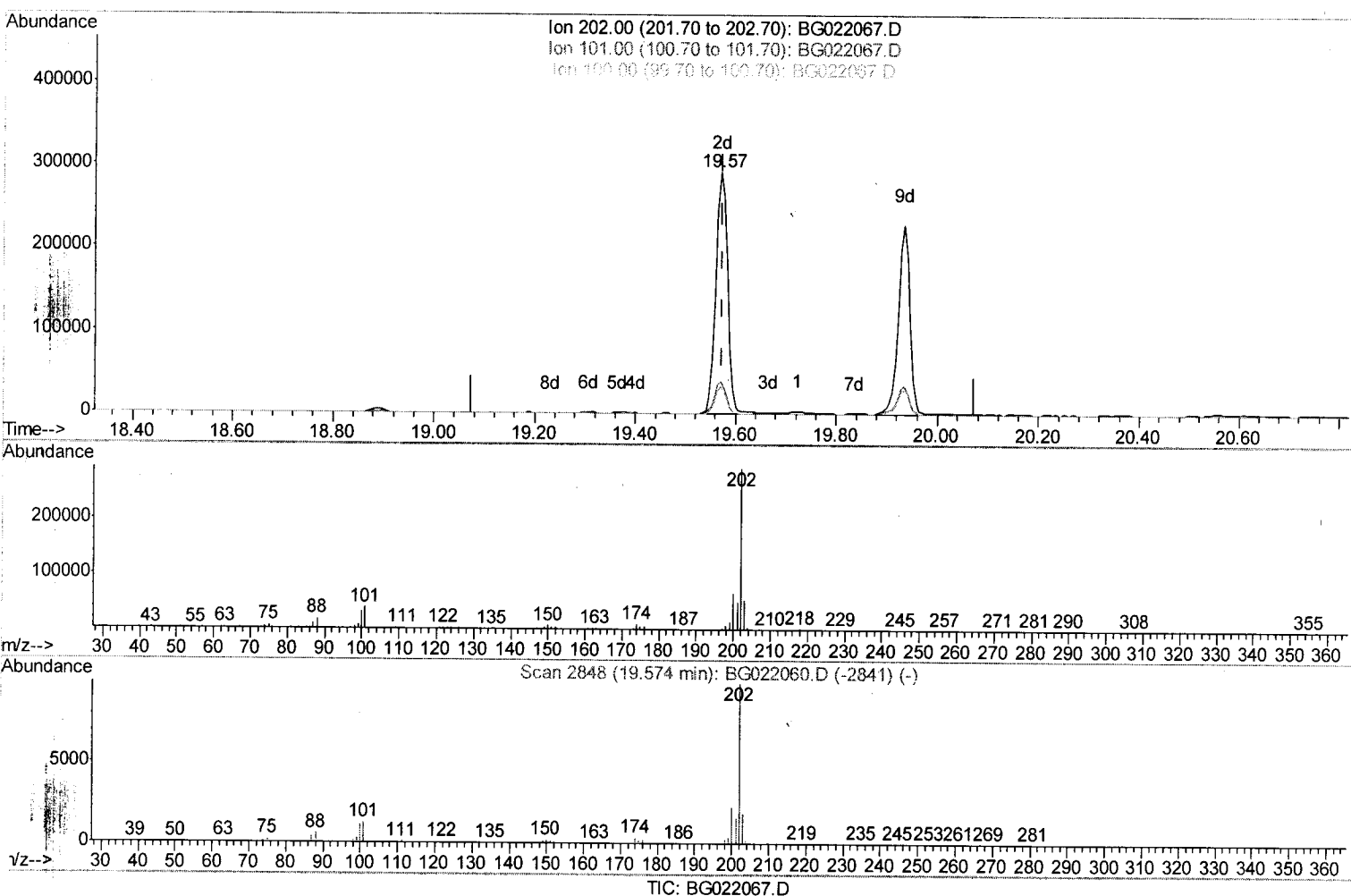
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
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Manual Integrations  
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 Response via : Initial Calibration



(28) Fluoranthene (C)

19.570min (-0.004) 36.09ng/ul m

response 468455

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 11.10 | 13.51# |
| 100.00 | 8.70  | 11.33# |
| 0.00   | 0.00  | 0.00   |

> U.M  
 05/31/16

# Quantitation Report (Qedit)

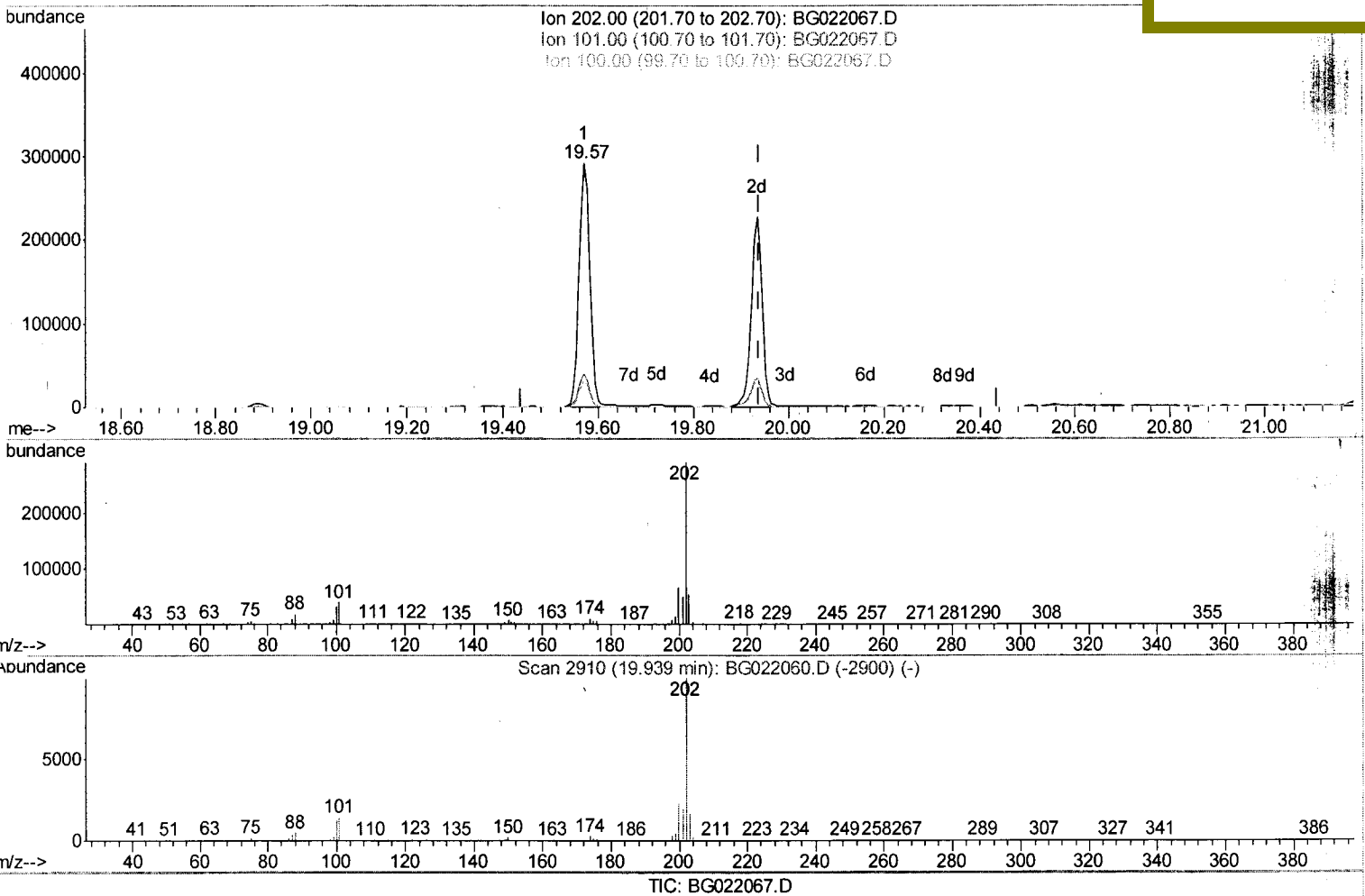
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XJ1

Manual Integrations  
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 Response via : Initial Calibration



(31) Pyrene

19.570min (-0.368) 35.28ng/ul

response 466288

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.30 | 13.51 |
| 100.00 | 11.60 | 11.33 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

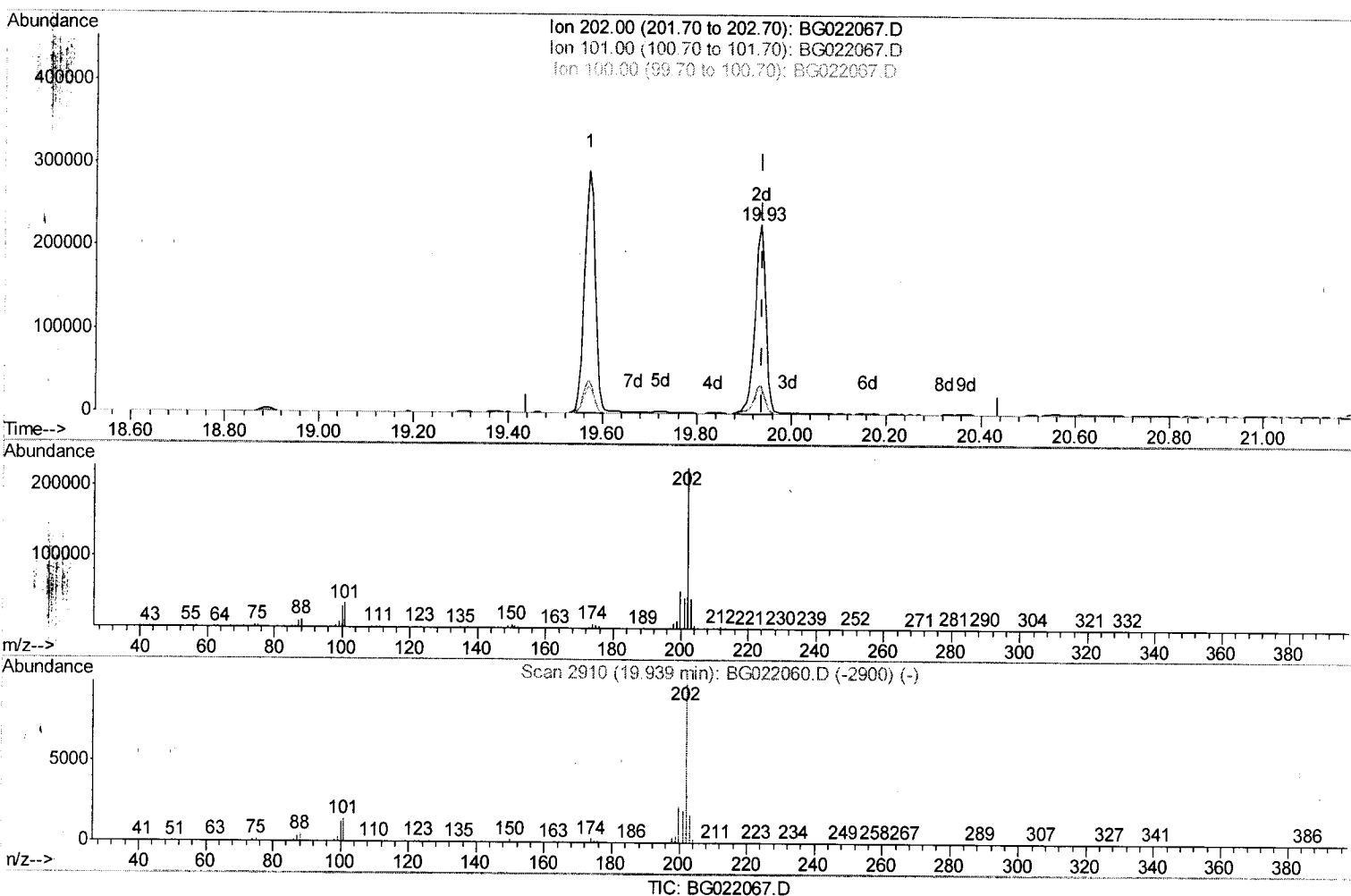
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XJ1

Manual Integrations  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 26 03:11:46 2016  
 Response via : Initial Calibration



(31) Pyrene

19.935min (-0.004) 27.89ng/ul m

response 368603

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 12.30 | 15.07# |
| 100.00 | 11.60 | 12.97  |
| 0.00   | 0.00  | 0.00   |

> 0.1M  
 05/31/16

# Quantitation Report (Qedit)

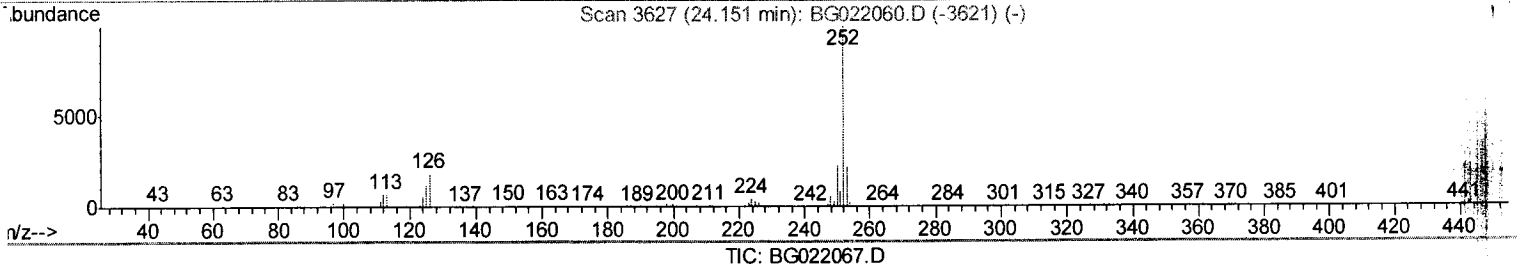
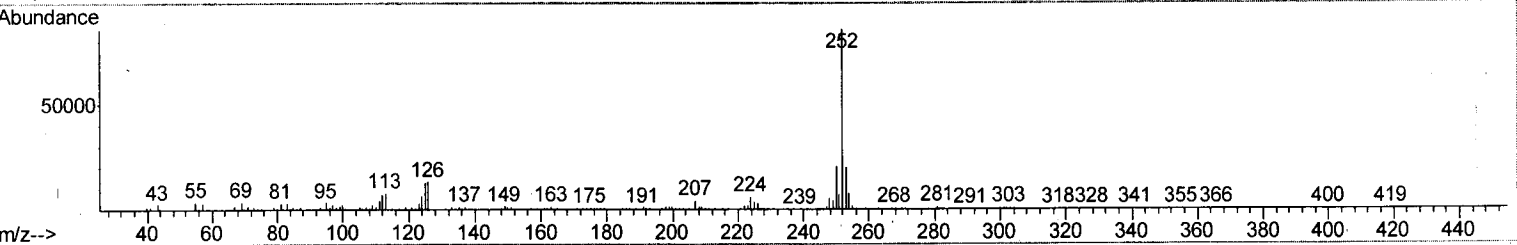
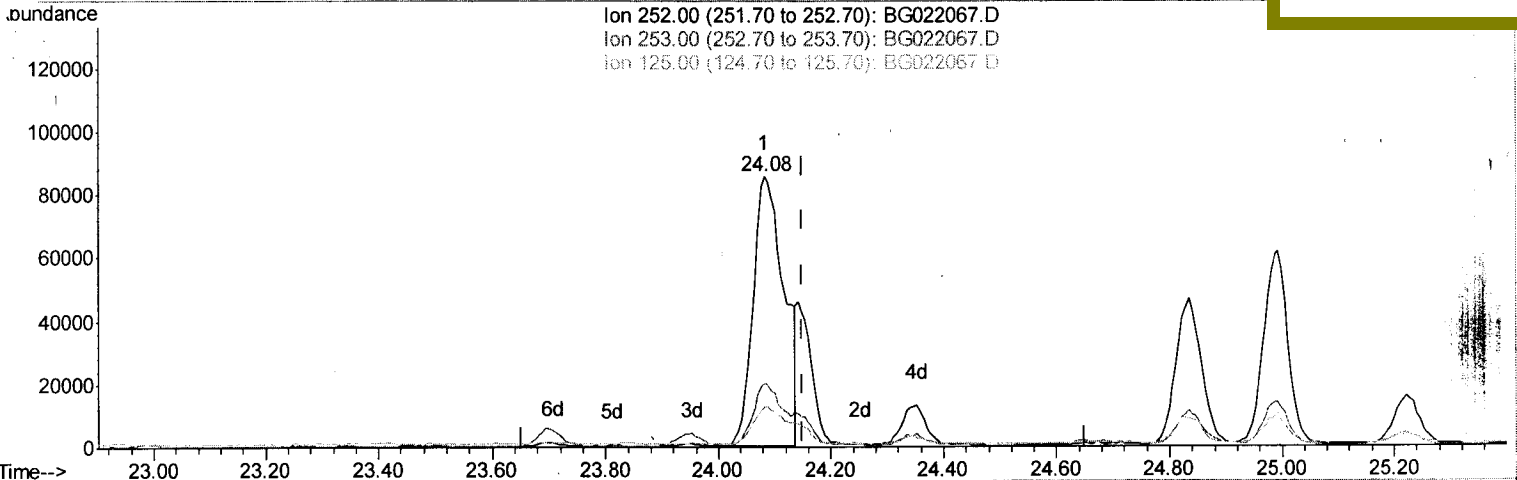
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XJ1

Manual Integrations  
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 Response via : Initial Calibration



(36) Benzo(k)fluoranthene

24.083min (-0.069) 30.67ng/ui

response 322606

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 22.30 | 23.77  |
| 125.00 | 9.60  | 15.14# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

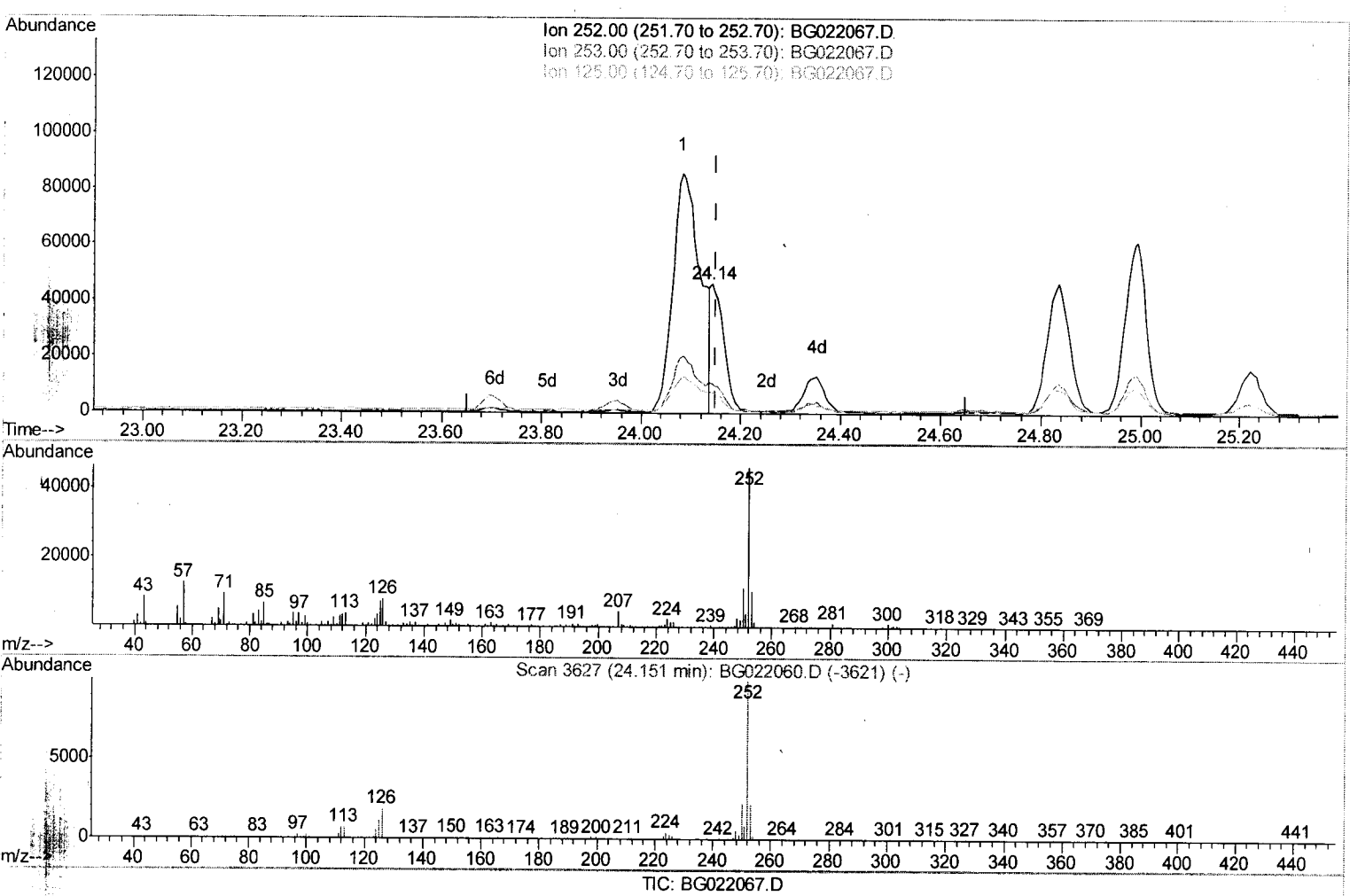
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 AHS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XJ1

Manual Integrations  
 APPROVED

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Quant Time: May 26 03:12:40 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG051816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 26 03:11:46 2016  
 Response via : Initial Calibration



(36) Benzo(k)fluoranthene

24.141min (-0.010) 8.30ng/ul m

response 87261

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 22.30 | 23.05  |
| 125.00 | 9.60  | 15.96# |
| 0.00   | 0.00  | 0.00   |

U.M  
 05131116

## Quantitation Report (Qedit)

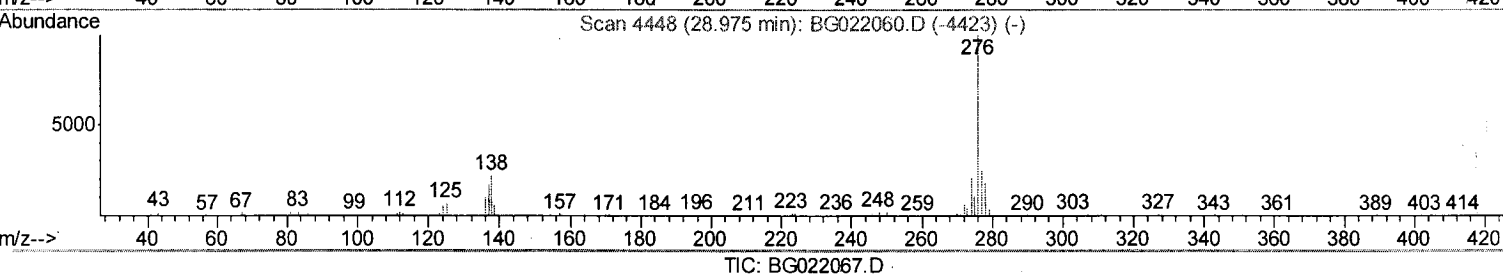
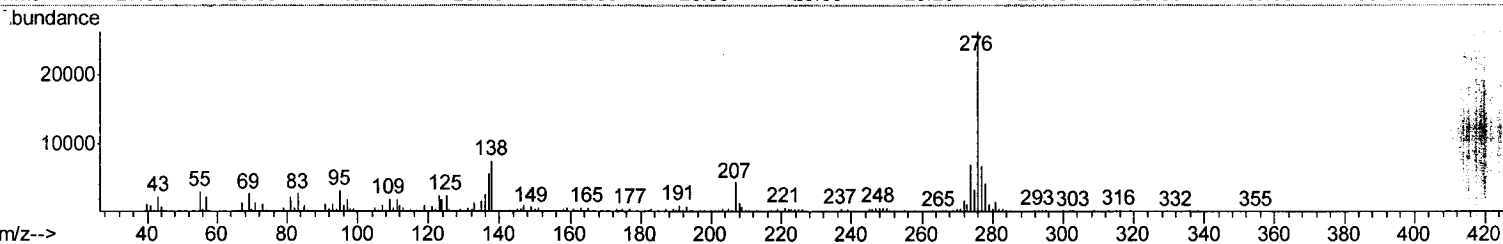
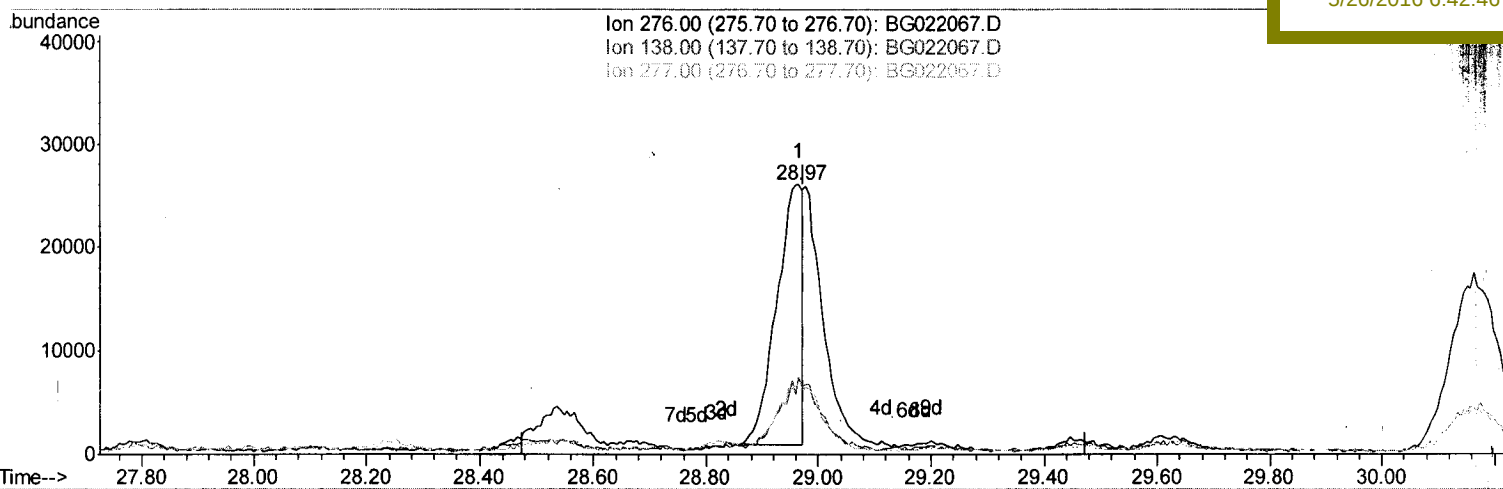
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
Data File : BG022067.D  
Acq On : 25 May 2016 20:43  
Operator : UM/SJ  
Sample : H3203-17  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9XJ1

Manual Integrations  
APPROVED

sohil  
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Quant Time: May 26 03:12:40 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG051816.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 26 03:11:46 2016  
Response via : Initial Calibration



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

28.965min (-0.010) 6.84ng/ul

response 79471

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 19.70 | 28.56# |
| 277.00 | 23.80 | 26.02  |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

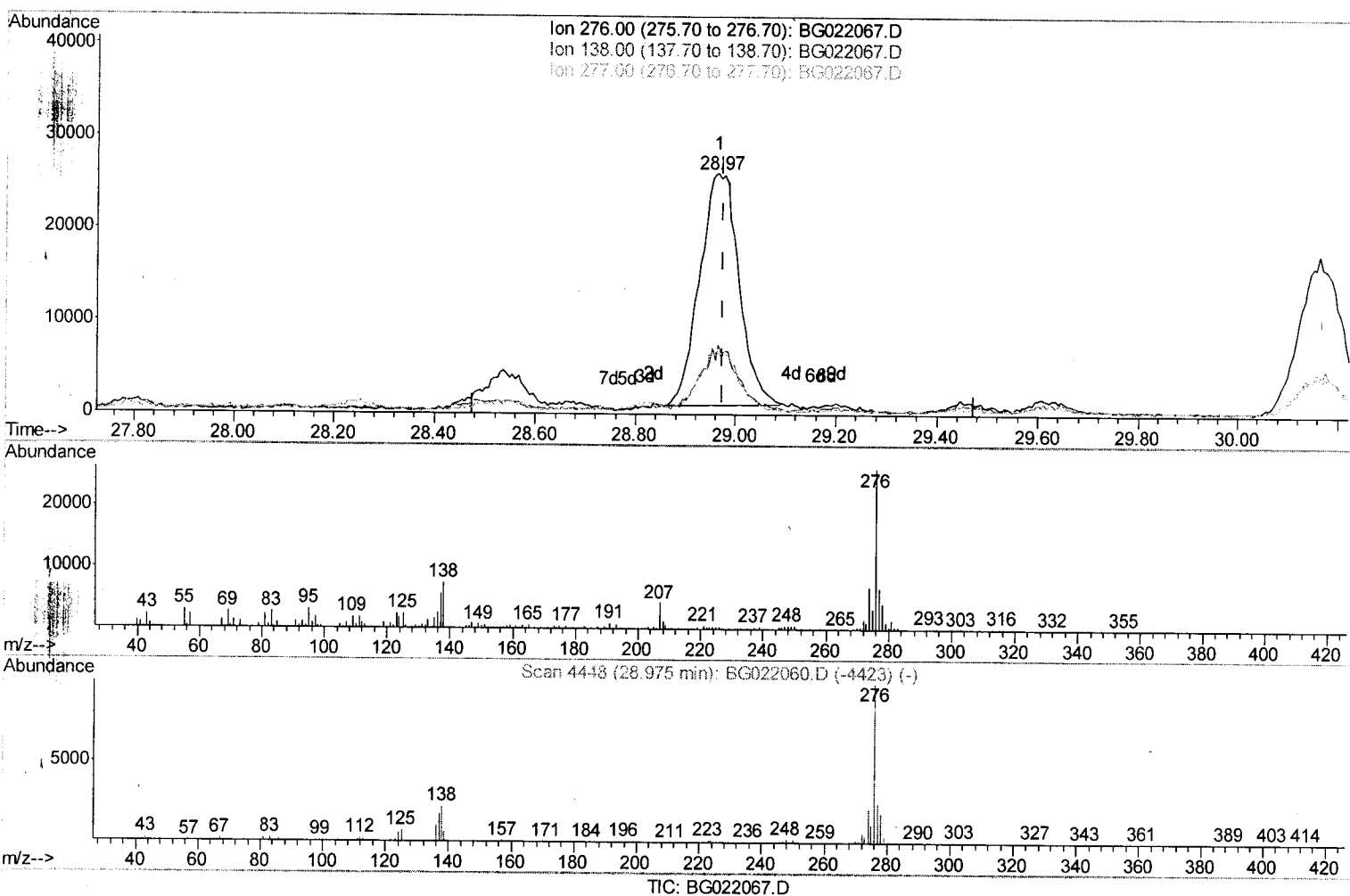
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampled :  
 D9XJ1

Manual Integrations  
 APPROVED

sohil  
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Quant Time: May 26 03:12:40 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG051816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 26 03:11:46 2016  
 Response via : Initial Calibration



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

28.965min (-0.010) 11.71ng/ul m

response 136096

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 19.70 | 28.56# |
| 277.00 | 23.80 | 26.02  |
| 0.00   | 0.00  | 0.00   |

U.M  
 05731116

# Quantitation Report (Qedit)

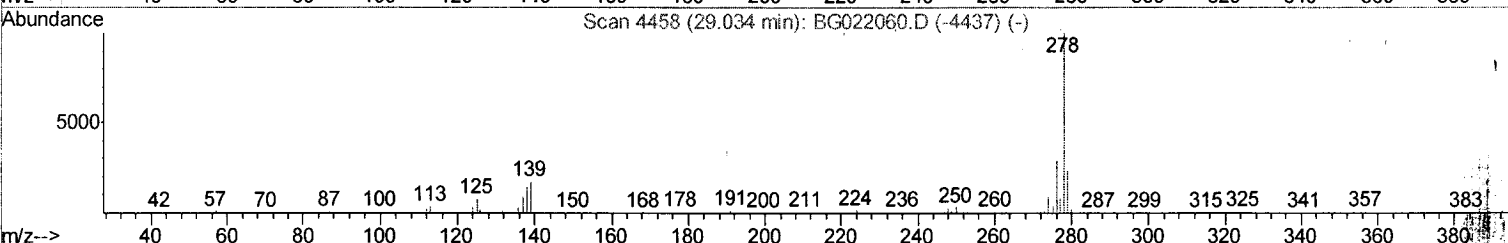
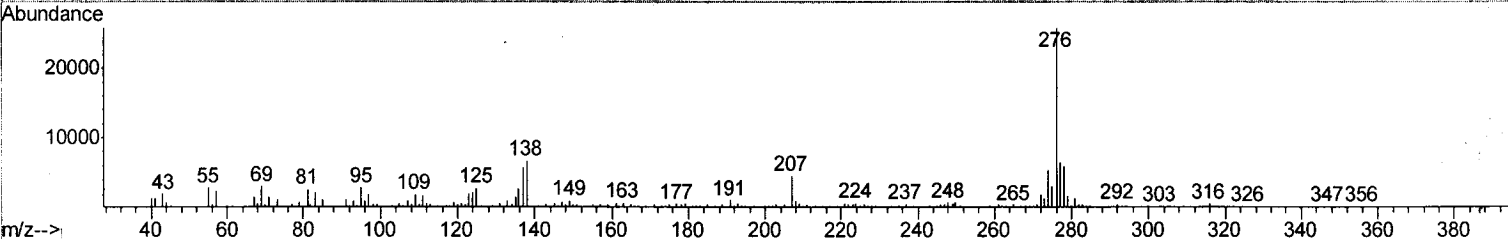
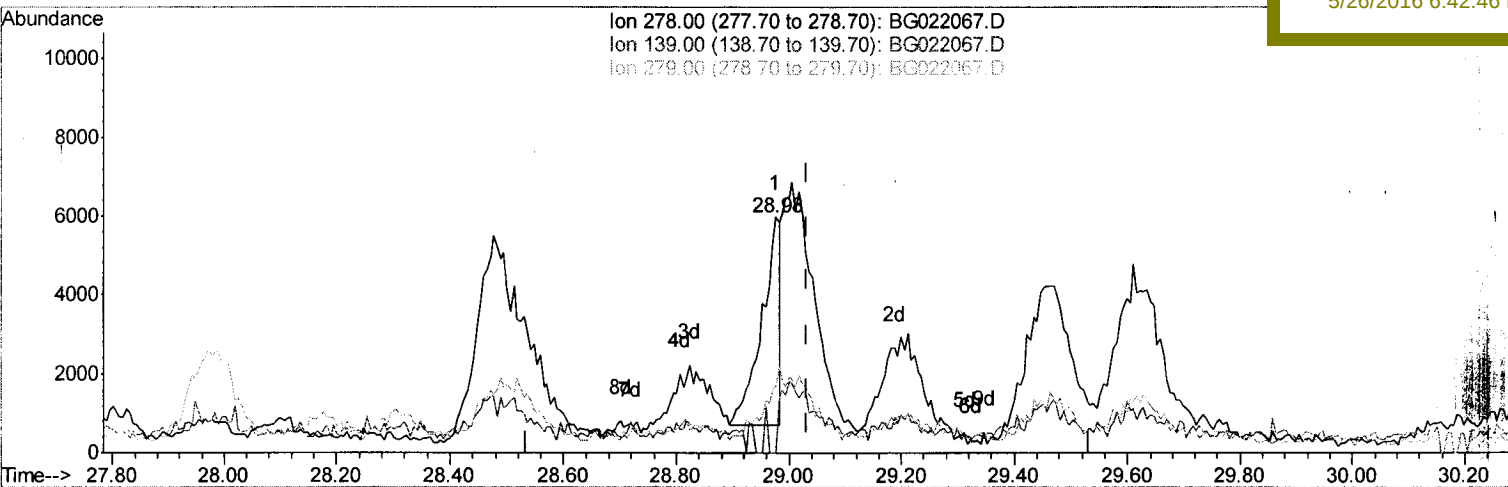
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XJ1

Quant Time: May 26 03:12:40 2016  
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Manual Integrations  
 APPROVED

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TIC: BG022067.D

(40) Dibenzo(a,h)anthracene

28.977min (-0.057) 1.21ng/ul

response 11667

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 278.00 | 100   | 100   |
| 139.00 | 15.10 | 0.00# |
| 279.00 | 24.80 | 28.06 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

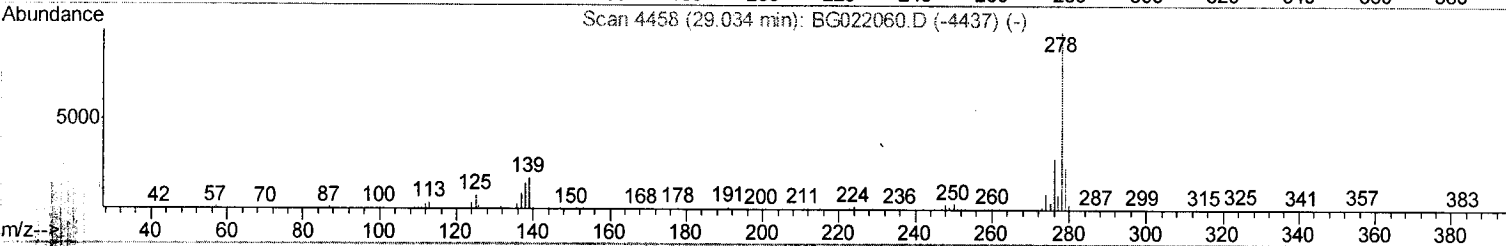
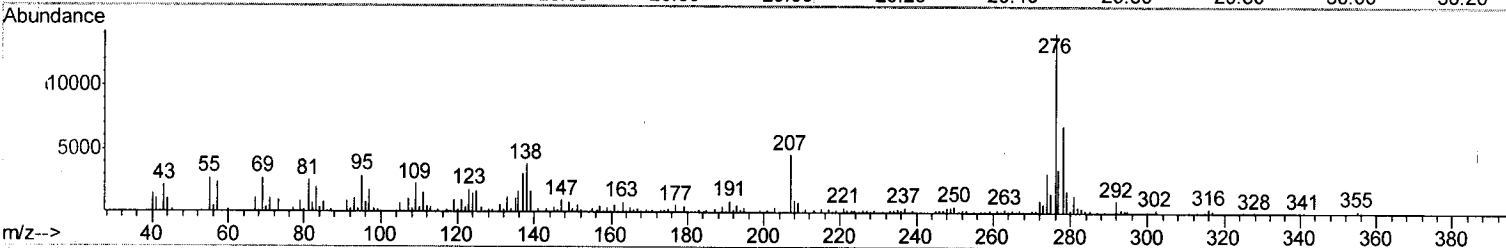
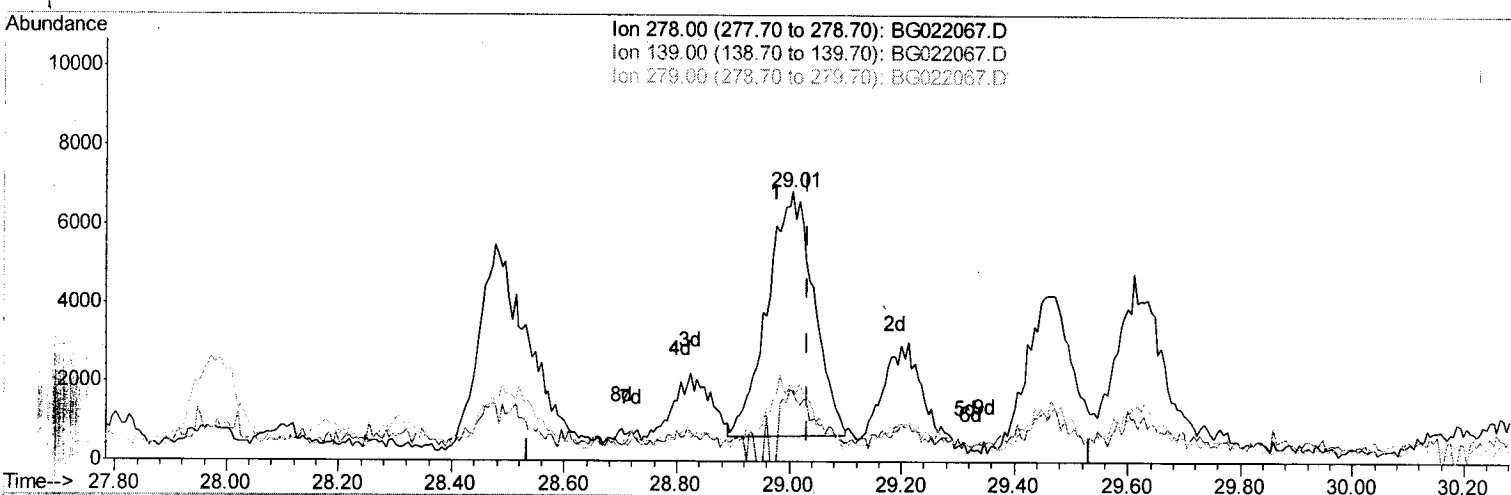
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
 Data File : BG022067.D  
 Acq On : 25 May 2016 20:43  
 Operator : UM/SJ  
 Sample : H3203-17  
 Misc :  
 AIS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
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 D9XJ1

Manual Integrations  
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sohil  
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TIC: BG022067.D

(40) Dibenzo(a,h)anthracene

29.006min (-0.027) 3.68ng/ul m

response 35420

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 15.10 | 25.98# |
| 279.00 | 24.80 | 27.26  |
| 0.00   | 0.00  | 0.00   |

> 0.0 M  
 05131116

# Quantitation Report (Qedit)

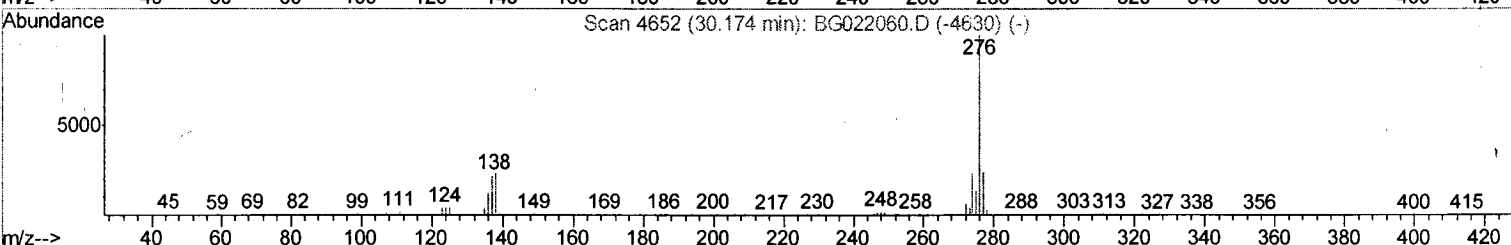
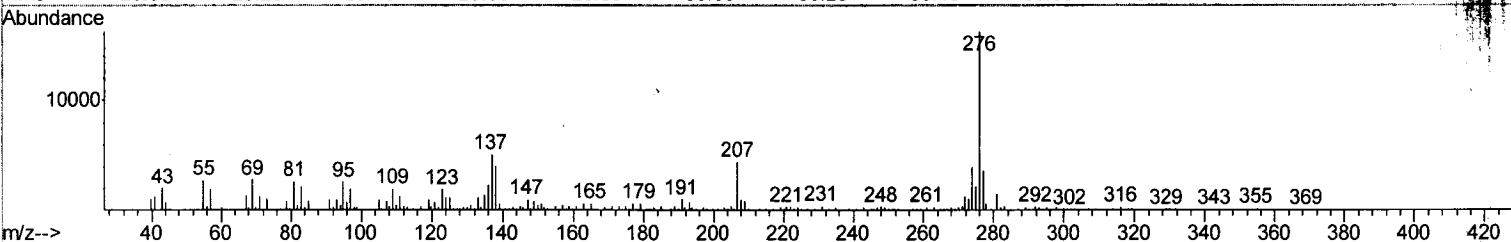
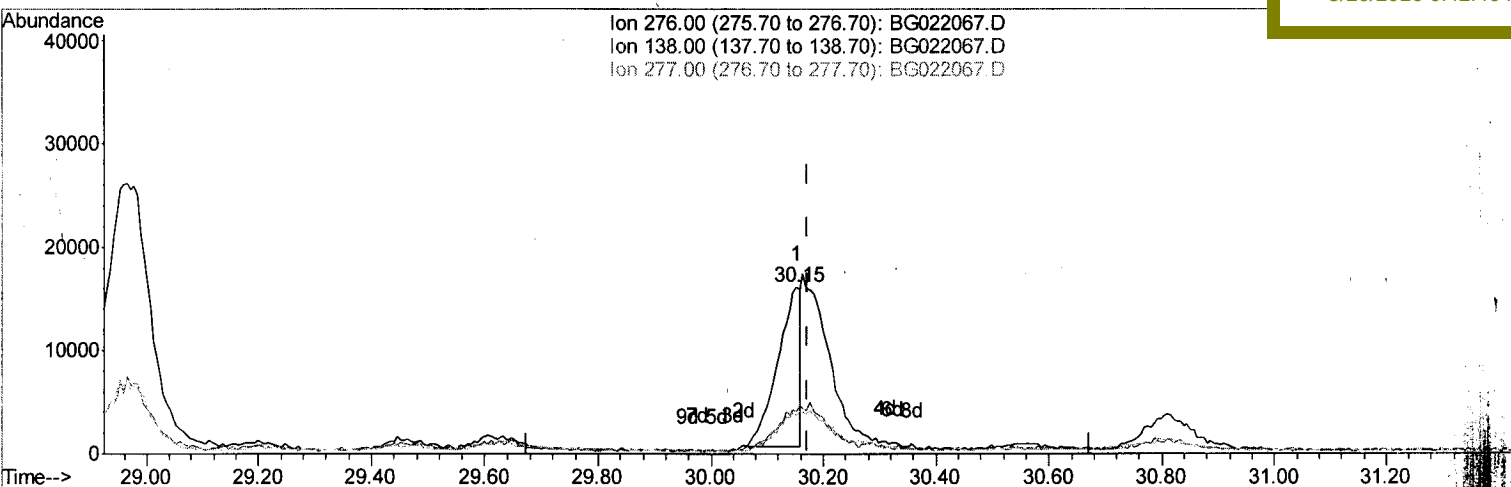
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
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 APPROVED

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 5/26/2016 6:42:46 PM



TIC: BG022067.D

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

30.152min (-0.022) 4.35ng/ul

response 42767

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 17.40 | 25.06# |
| 277.00 | 24.70 | 22.67  |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

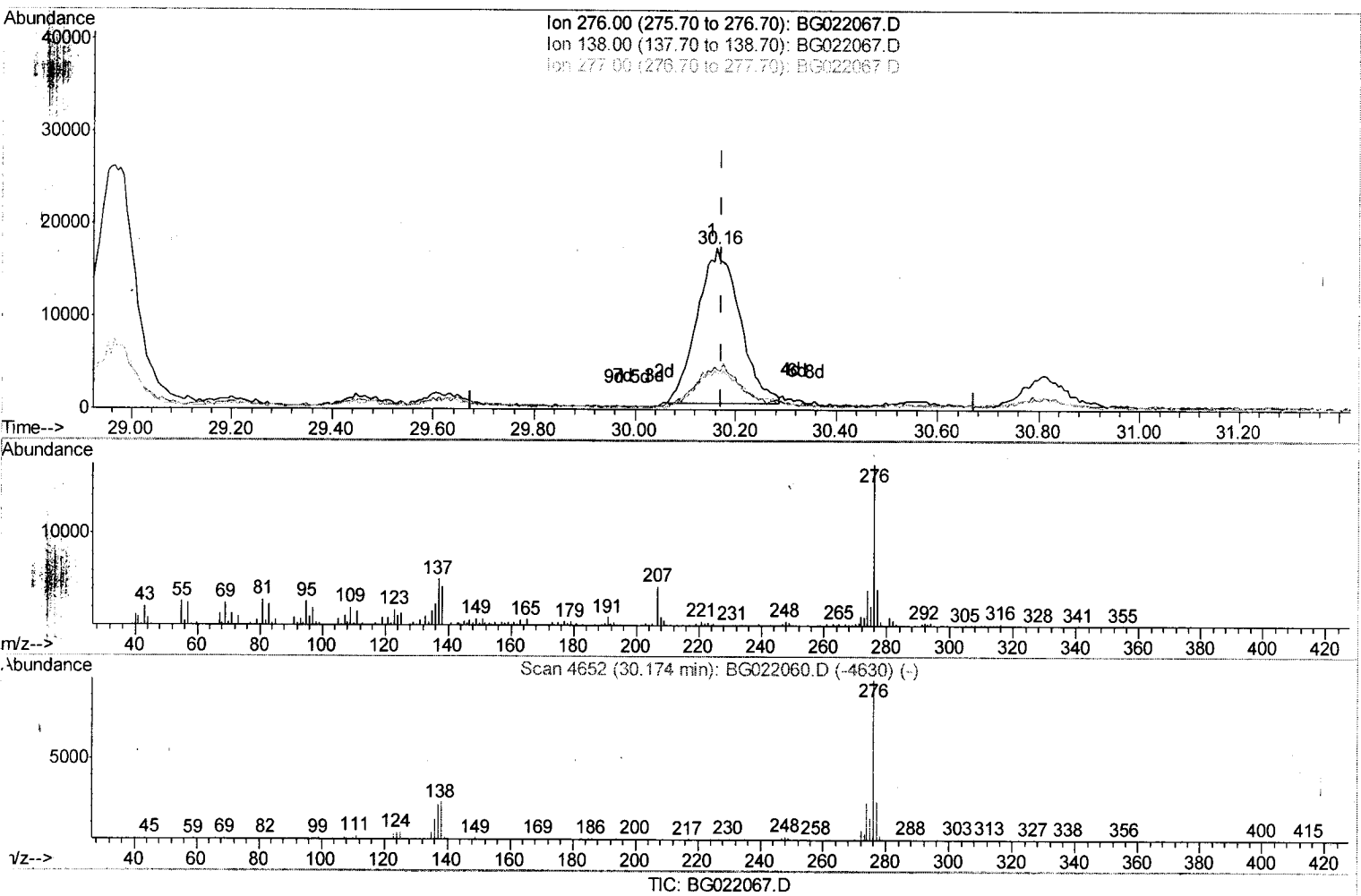
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
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(41) Benzo(g,h,i)perylene

30.164min (-0.010) 9.93ng/ul m

response 97633

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 17.40 | 24.94# |
| 277.00 | 24.70 | 23.39  |
| 0.00   | 0.00  | 0.00   |

> 0.0 M  
 05/31/16

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052516\  
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 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XJ1

Manual Integrations  
 APPROVED

sohil  
 5/26/2016 6:42:46 PM

Quant Time: May 26 03:35:47 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG051816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 26 03:11:46 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 38541    | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.97 | 136  | 209494   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.78 | 164  | 119461   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.53 | 188  | 233665   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.81 | 240  | 191930   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 25.15 | 264  | 186024   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.53  | 96  | 1051   | 1.25  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 7.31  | 99  | 67757  | 19.91 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.47  | 67  | 40916  | 22.57 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.69  | 132 | 63041  | 22.56 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.87  | 113 | 64476  | 21.27 | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 9.33  | 128 | 35639  | 24.25 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 10.05 | 143 | 33265  | 21.21 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.60 | 165 | 63391  | 22.87 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 11.12 | 131 | 46966  | 21.51 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 14.18 | 166 | 216313 | 23.48 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 14.48 | 160 | 298411 | 25.15 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 15.00 | 143 | 6586m  | 4.06  | ng/ul | 0.00 |
| 21) Fluorene-d10               | 15.77 | 176 | 198211 | 23.91 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.89 | 200 | 14929  | 12.87 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.63 | 188 | 275267 | 25.57 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.91 | 212 | 257525 | 25.43 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 24.92 | 264 | 209808 | 25.40 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |       | Qvalue |    |
|----------------------------|-------|-----|---------|-------|--------|----|
| 11) Naphthalene            | 11.03 | 128 | 11804   | 1.16  | ng/ul  | 98 |
| 13) 2-Methylnaphthalene    | 12.63 | 142 | 8807    | 1.19  | ng/ul  | 97 |
| 25) Phenanthrene           | 17.57 | 178 | 175939  | 14.09 | ng/ul  | 96 |
| 27) Anthracene             | 17.66 | 178 | 21353   | 1.70  | ng/ul  | 98 |
| 28) Fluoranthene           | 19.57 | 202 | 468455m | 36.09 | ng/ul  |    |
| 31) Pyrene                 | 19.93 | 202 | 368603m | 27.89 | ng/ul  |    |
| 32) Benzo(a)anthracene     | 21.79 | 228 | 184637  | 17.34 | ng/ul  | 98 |
| 33) Chrysene               | 21.86 | 228 | 197392  | 19.06 | ng/ul  | 97 |
| 35) Benzo(b)fluoranthene   | 24.08 | 252 | 322606  | 30.17 | ng/ul# | 94 |
| 36) Benzo(k)fluoranthene   | 24.14 | 252 | 87261m  | 8.30  | ng/ul  |    |
| 38) Benzo(a)pyrene         | 24.99 | 252 | 182772  | 17.87 | ng/ul# | 92 |
| 39) Indeno(1,2,3-cd)pyrene | 28.97 | 276 | 136096m | 11.71 | ng/ul  |    |
| 40) Dibenzo(a,h)anthracene | 29.01 | 278 | 35420m  | 3.68  | ng/ul  |    |
| 41) Benzo(g,h,i)perylene   | 30.16 | 276 | 97633m  | 9.93  | ng/ul  |    |

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