

# Quantitation Report (QT Reviewed)

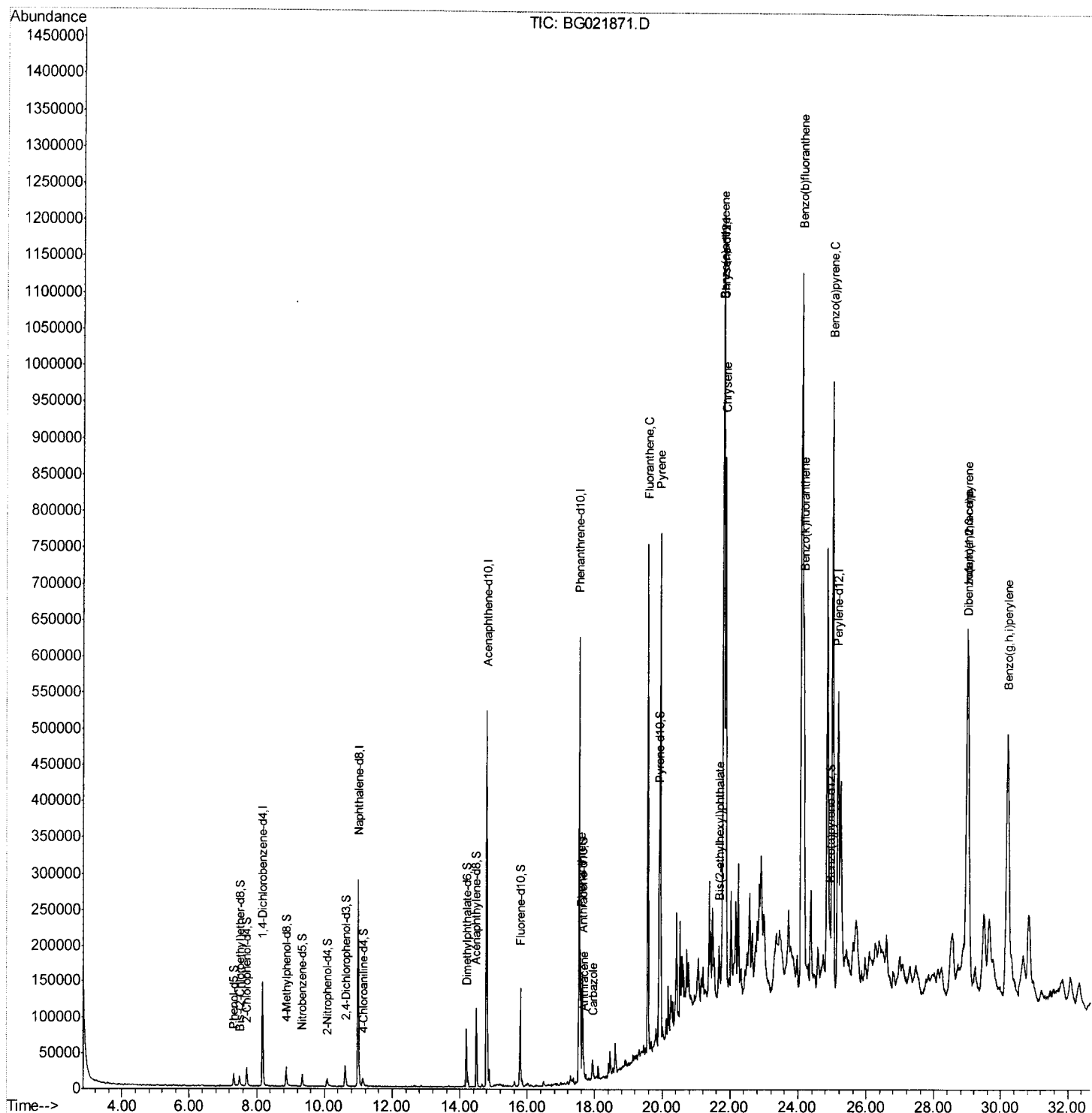
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 Client Sampled :  
 D9WJ9DL

Manual Integrations  
 APPROVED

sohil  
 5/13/2016 8:11:36 PM

Quant Time: May 13 05:58:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 13 04:58:59 2016  
 Response via : Initial Calibration



# Quantitation Report (Qedit)

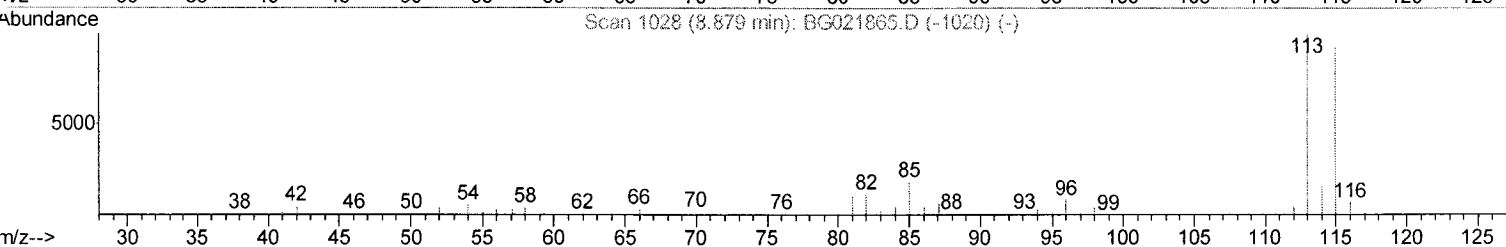
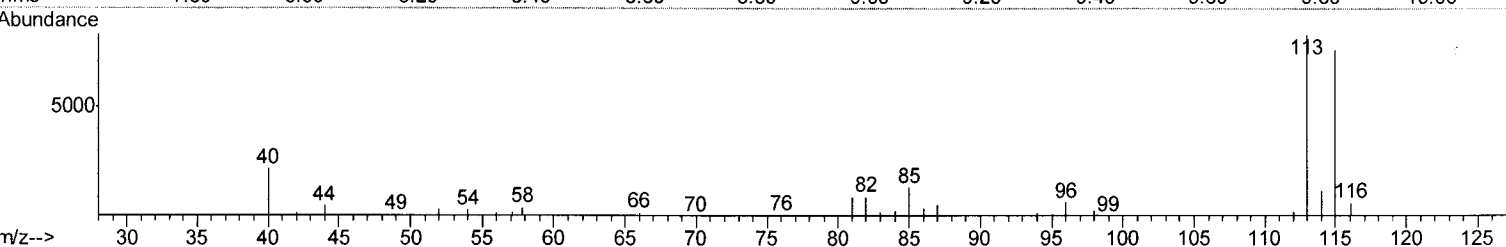
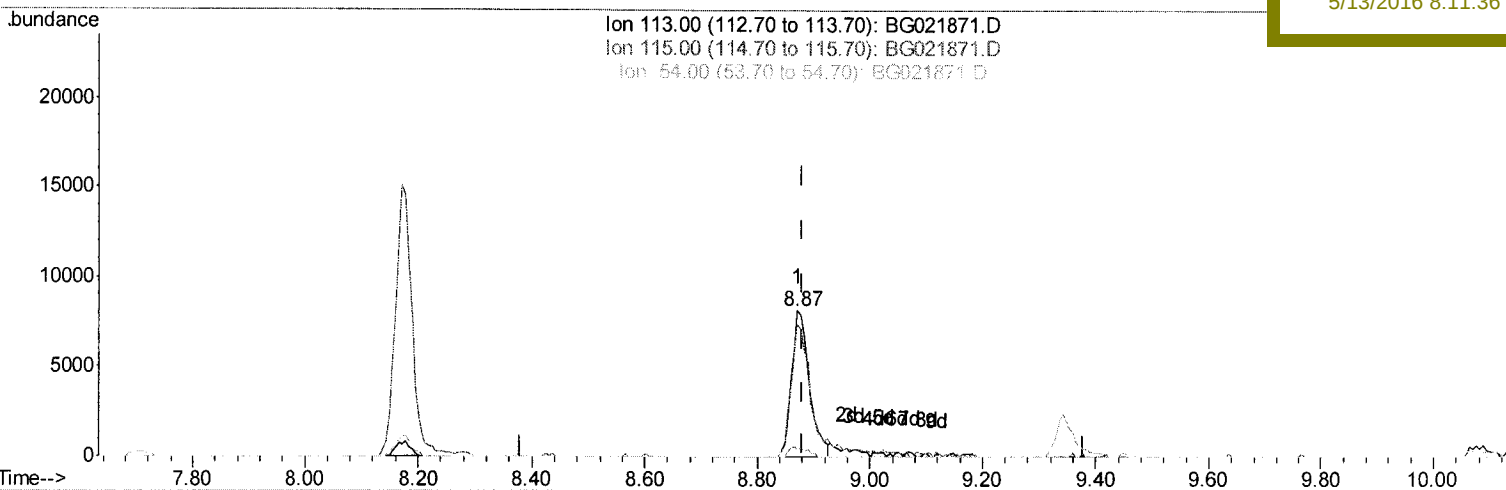
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 05:00:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
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 ClientSampleId :  
 D9WJ9DL

Manual Integrations  
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TIC: BG021871.D

(13) 4-Methylphenol-d8 (S)

8.871min (-0.008) 4.89ng/ul

response 17770

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 113.00 | 100   | 100   |
| 115.00 | 93.40 | 91.91 |
| 54.00  | 18.70 | 5.36# |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

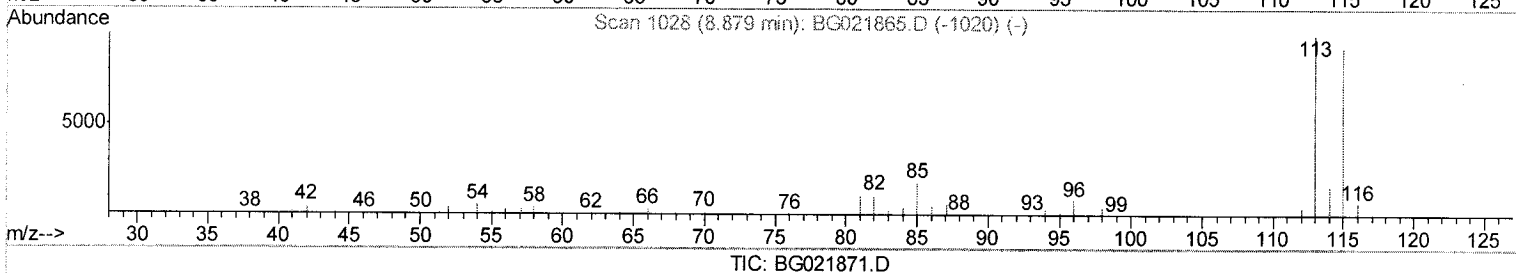
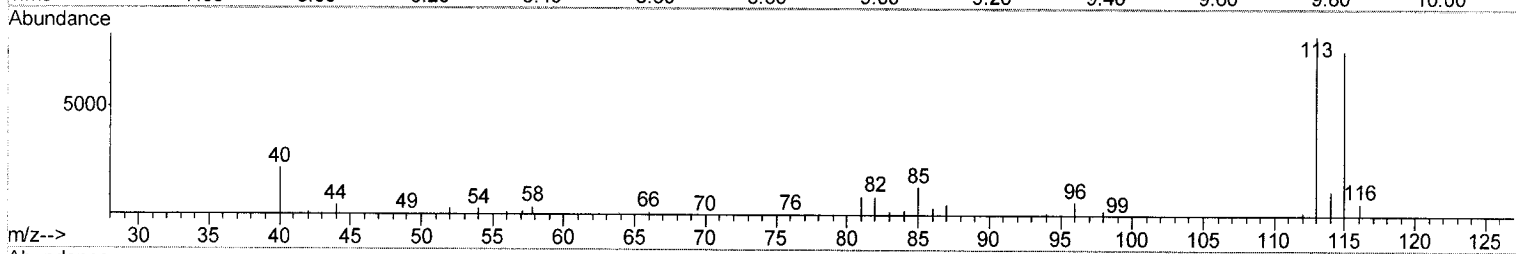
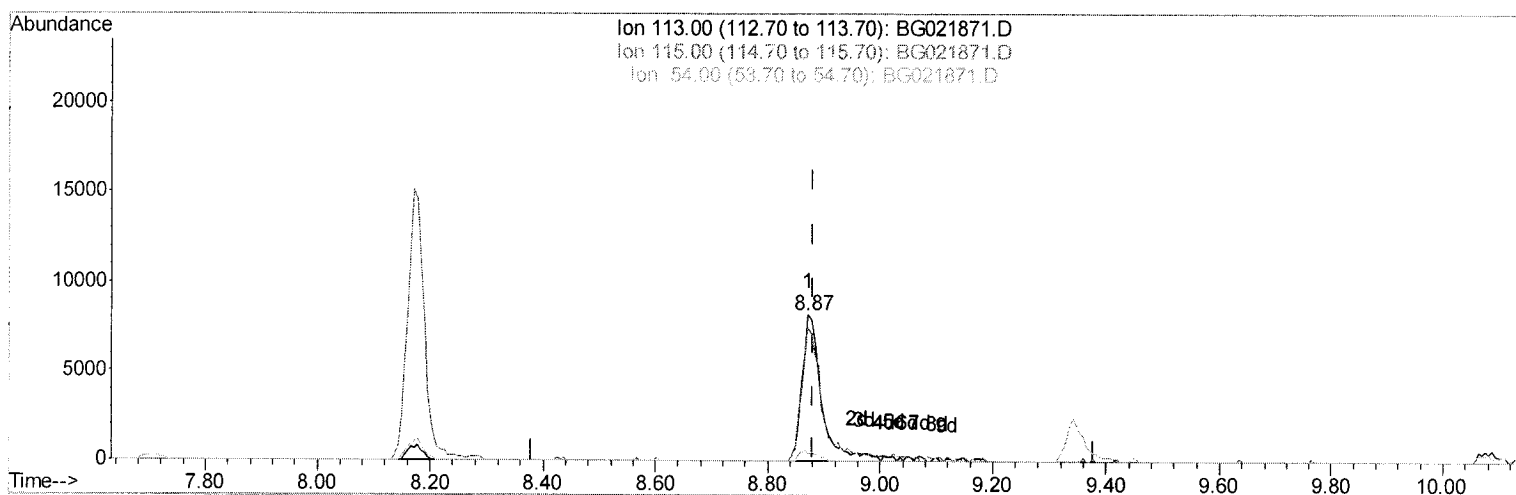
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

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



TIC: BG021871.D

(13) 4-Methylphenol-d8 (S)  
 8.871min (-0.008) 5.38ng/ul m

response 19543

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 113.00 | 100   | 100   |
| 115.00 | 93.40 | 91.91 |
| 54.00  | 18.70 | 5.36# |
| 0.00   | 0.00  | 0.00  |

J. m  
 > 05716116

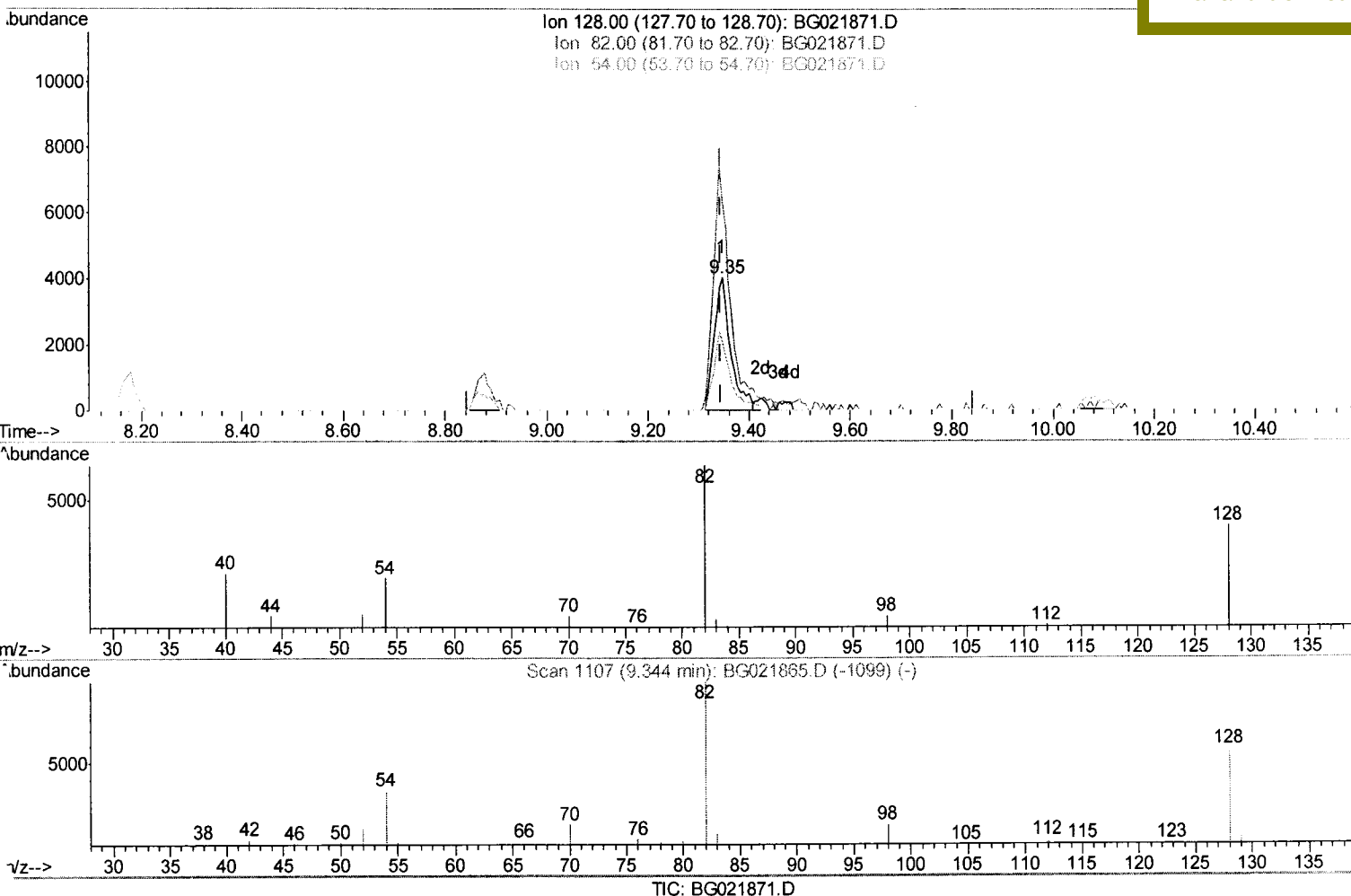
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
Data File : BG021871.D  
Acq On : 12 May 2016 16:34  
Operator : UM/SJ  
Sample : H2936-10DL 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampled :  
D9WJ9DL

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(19) Nitrobenzene-d5 (S)

9.347min (+0.004) 4.21ng/ul

response 9083

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 128.00 | 100    | 100     |
| 82.00  | 309.10 | 156.35# |
| 54.00  | 161.50 | 51.18#  |
| 0.00   | 0.00   | 0.00    |

# Quantitation Report (Qedit)

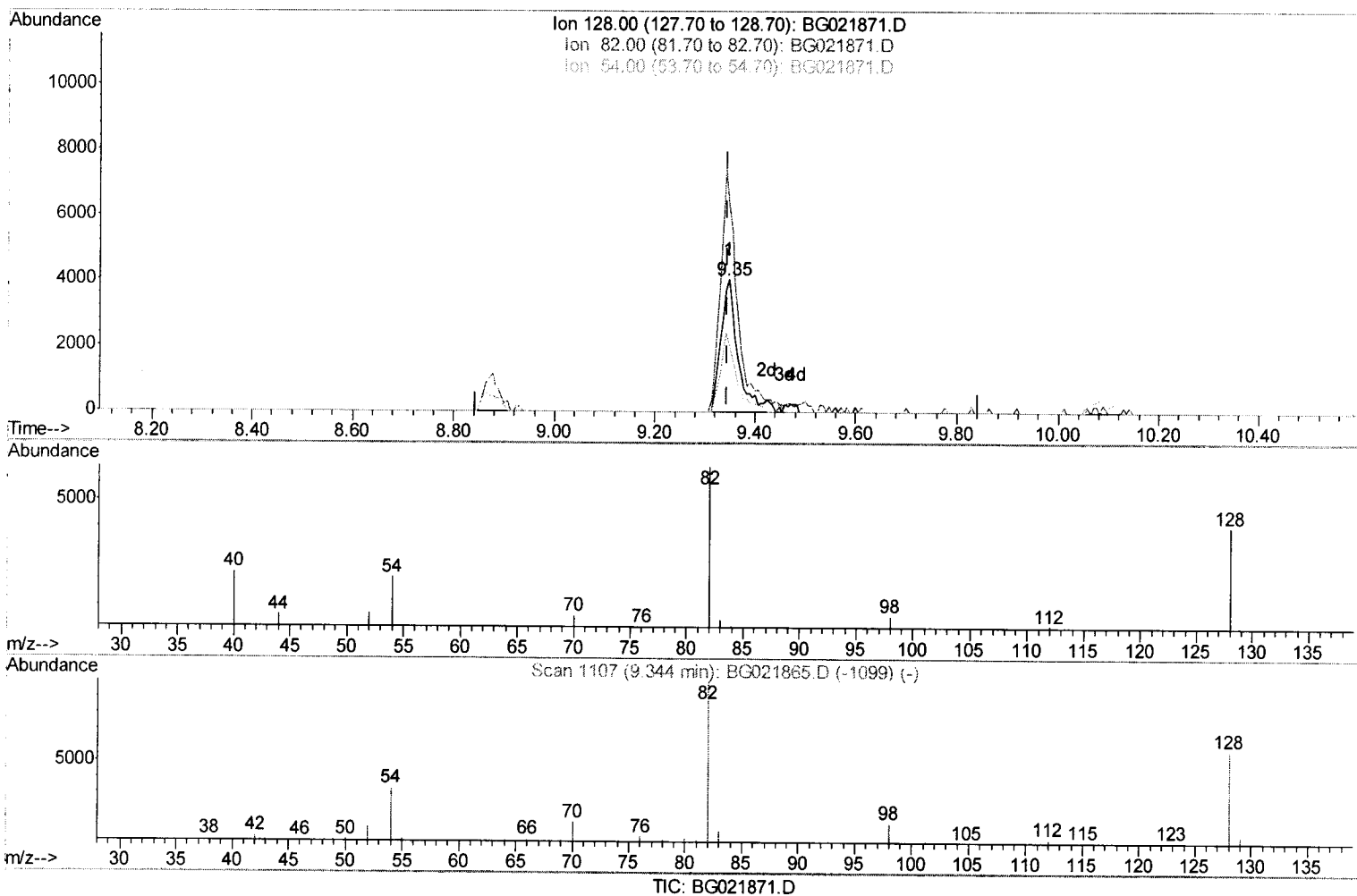
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WJ9DL

Manual Integrations  
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(19) Nitrobenzene-d5 (S)

9.347min (+0.004) 4.64ng/ul m

response 10026

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 128.00 | 100    | 100     |
| 82.00  | 309.10 | 156.35# |
| 54.00  | 161.50 | 51.18#  |
| 0.00   | 0.00   | 0.00    |

> U. M  
 05/16/16

# Quantitation Report (Qedit)

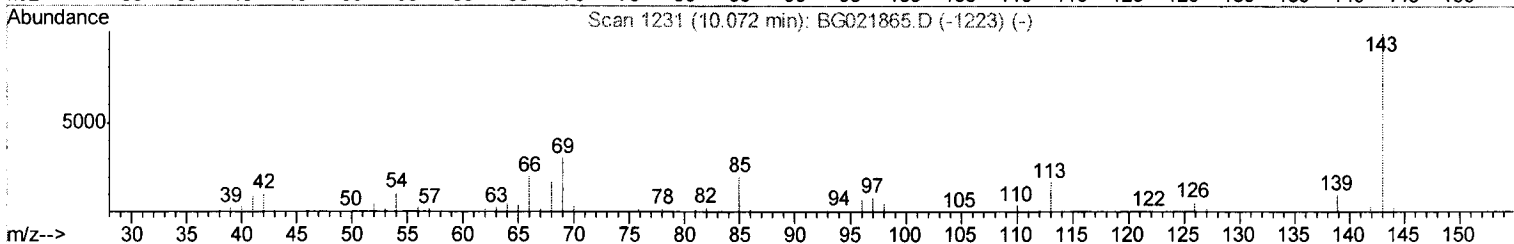
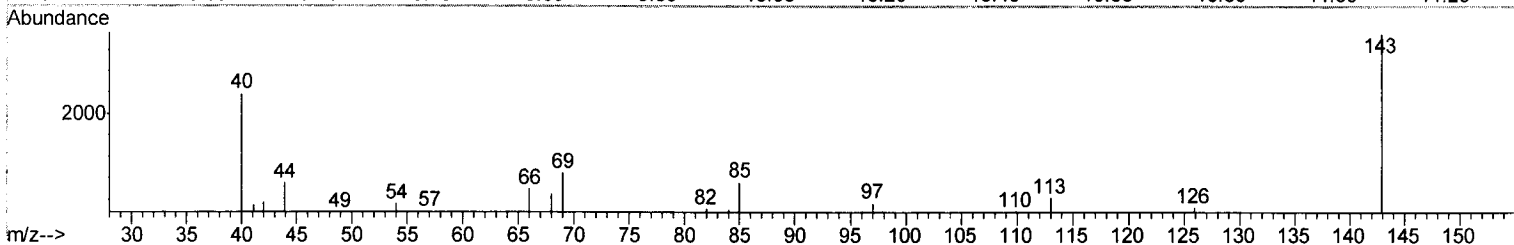
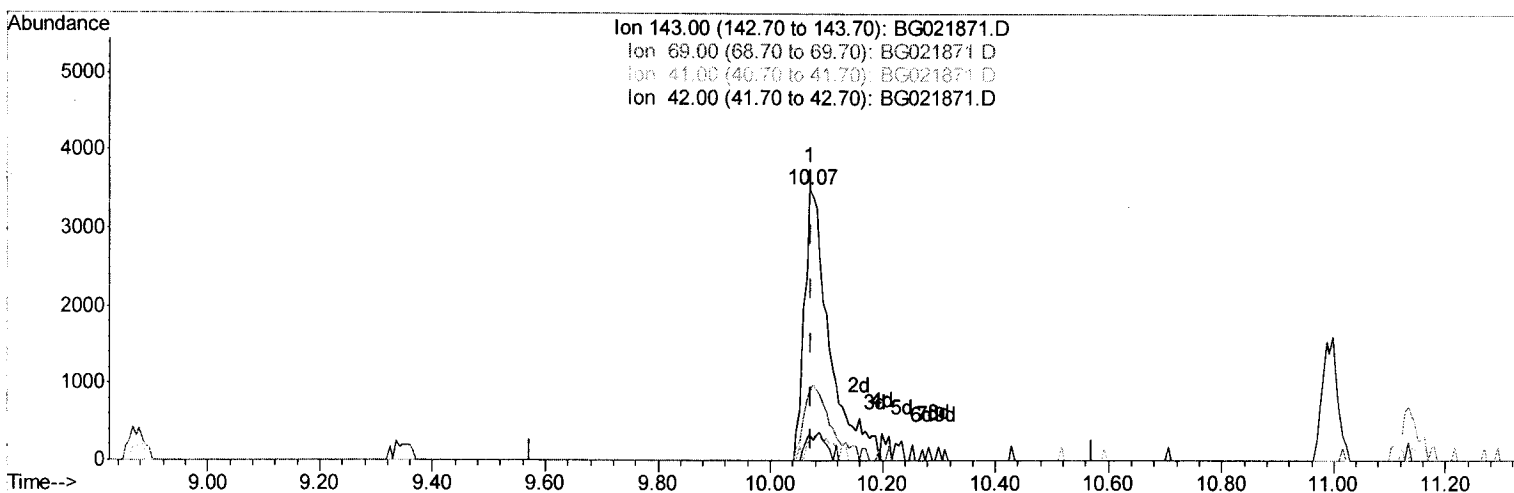
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
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 Operator : UM/SJ  
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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Manual Integrations  
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TIC: BG021871.D

(22) 2-Nitrophenol-d4 (S)

10.070min (-0.002) 8.09ng/ul m

response 11033

>  $\frac{U-M}{05/16/16}$

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 143.00 | 100   | 100    |
| 69.00  | 76.10 | 25.50# |
| 41.00  | 34.20 | 8.80#  |
| 42.00  | 33.20 | 9.94#  |

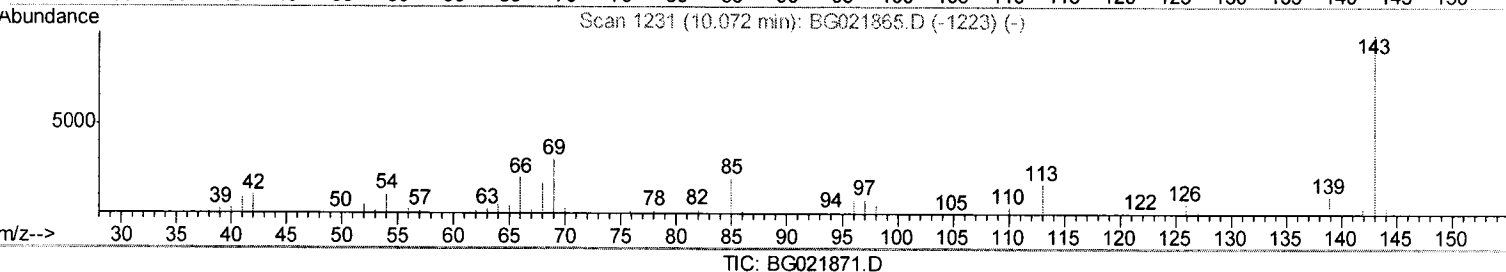
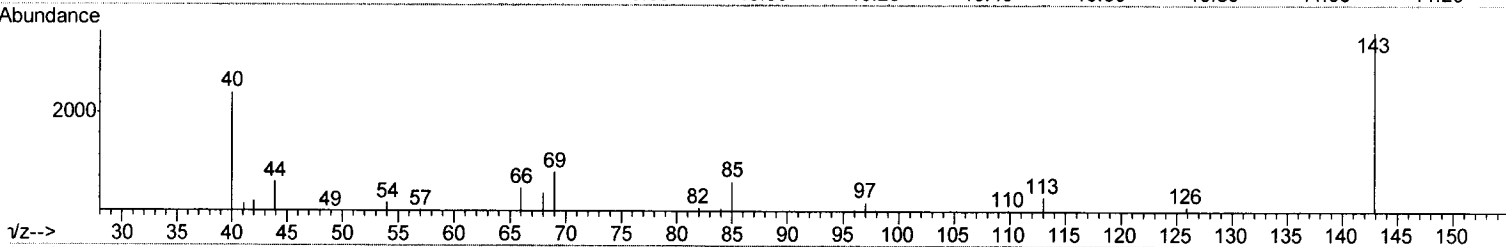
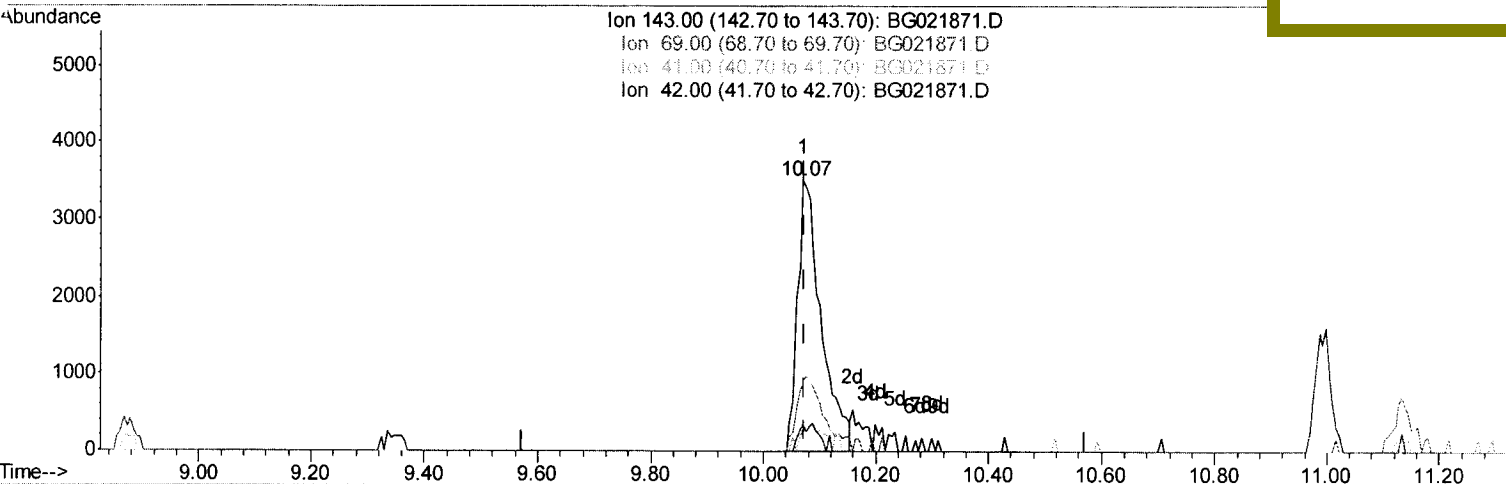
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
Data File : BG021871.D  
Acq On : 12 May 2016 16:34  
Operator : UM/SJ  
Sample : H2936-10DL 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9WJ9DL

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Manual Integrations  
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(22) 2-Nitrophenol-d4 (S)

10.070min (-0.002) 7.52ng/ul

response 10261

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 143.00 | 100   | 100    |
| 69.00  | 76.10 | 25.50# |
| 41.00  | 34.20 | 8.80#  |
| 42.00  | 33.20 | 9.94#  |

# Quantitation Report (Qedit)

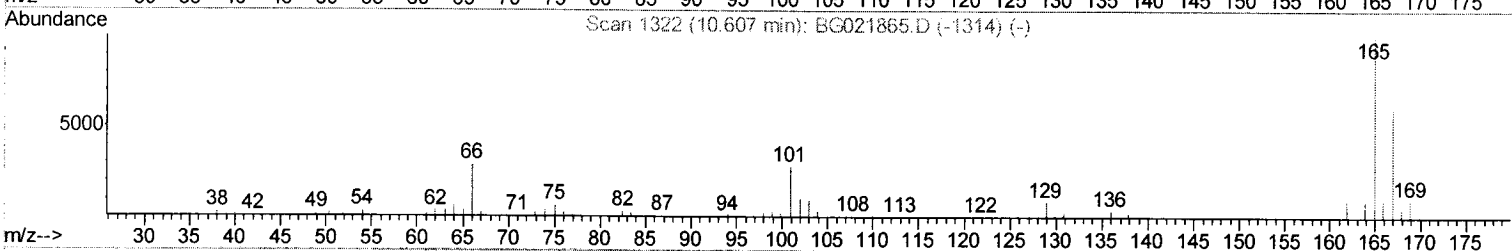
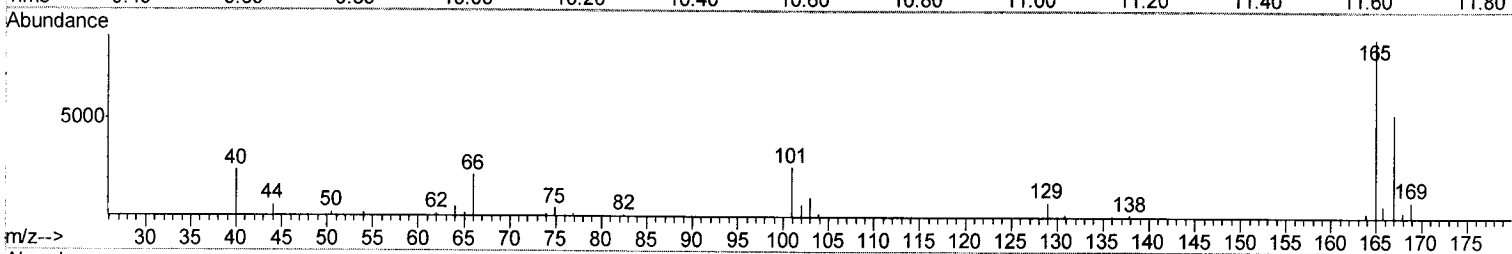
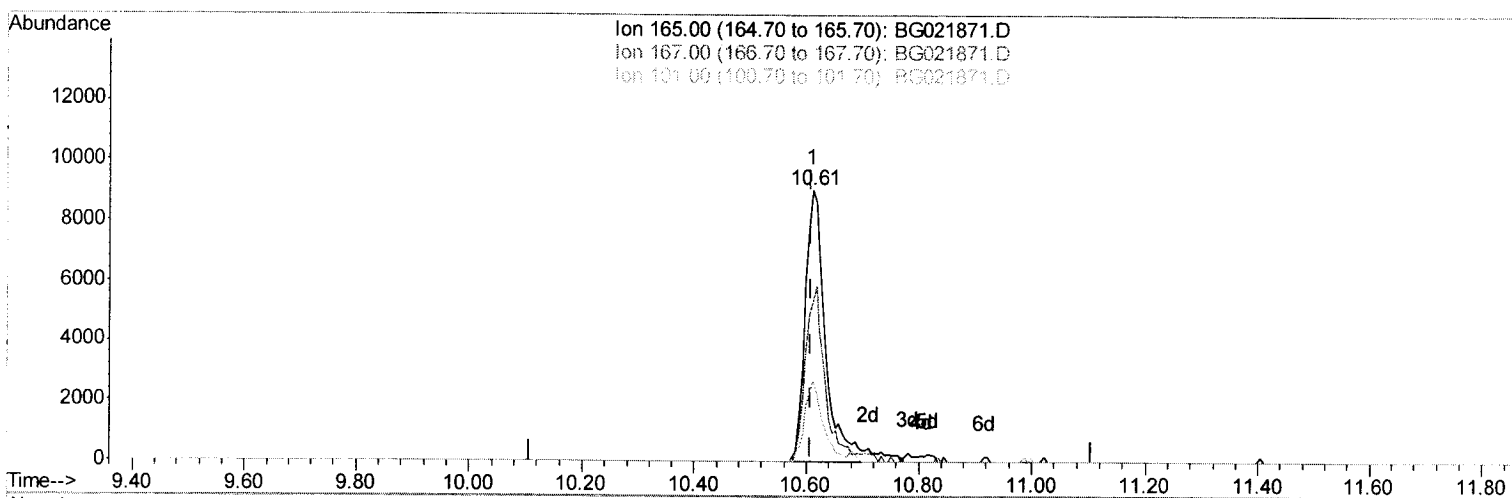
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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TIC: BG021871.D

(26) 2,4-Dichlorophenol-d3 (S)

10.611min (+0.004) 6.03ng/ul m

response 23259

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 165.00 | 100   | 100    |
| 167.00 | 66.50 | 59.32  |
| 101.00 | 41.00 | 29.38# |
| 0.00   | 0.00  | 0.00   |

>  $\frac{0.03}{0.5716116}$

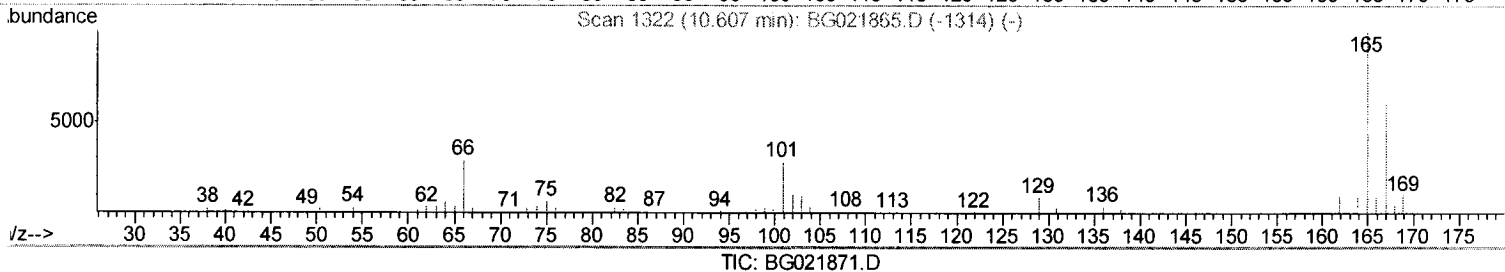
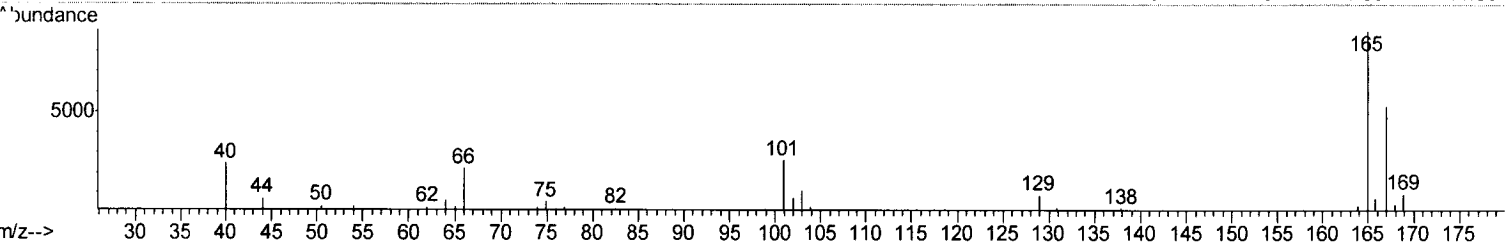
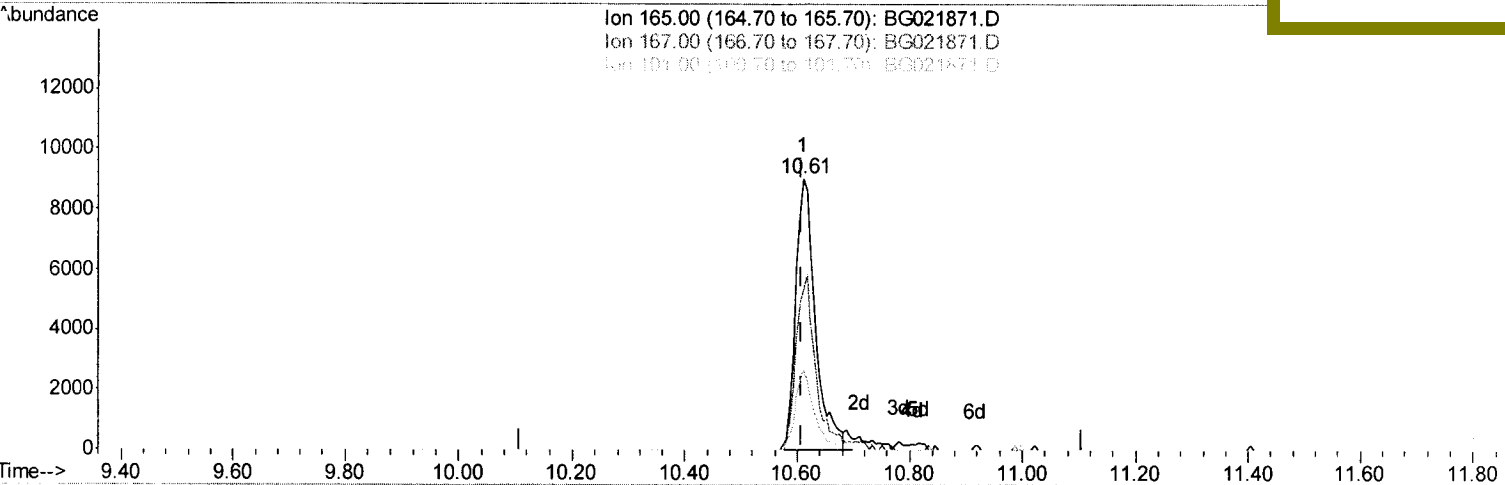
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WJ9DL

Quant Time: May 13 05:00:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 13 04:58:59 2016  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

sohil  
 5/13/2016 8:11:36 PM



(26) 2,4-Dichlorophenol-d3 (S)

10.611min (+0.004) 5.64ng/ul

response 21746

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 165.00 | 100   | 100    |
| 167.00 | 66.50 | 59.32  |
| 101.00 | 41.00 | 29.38# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

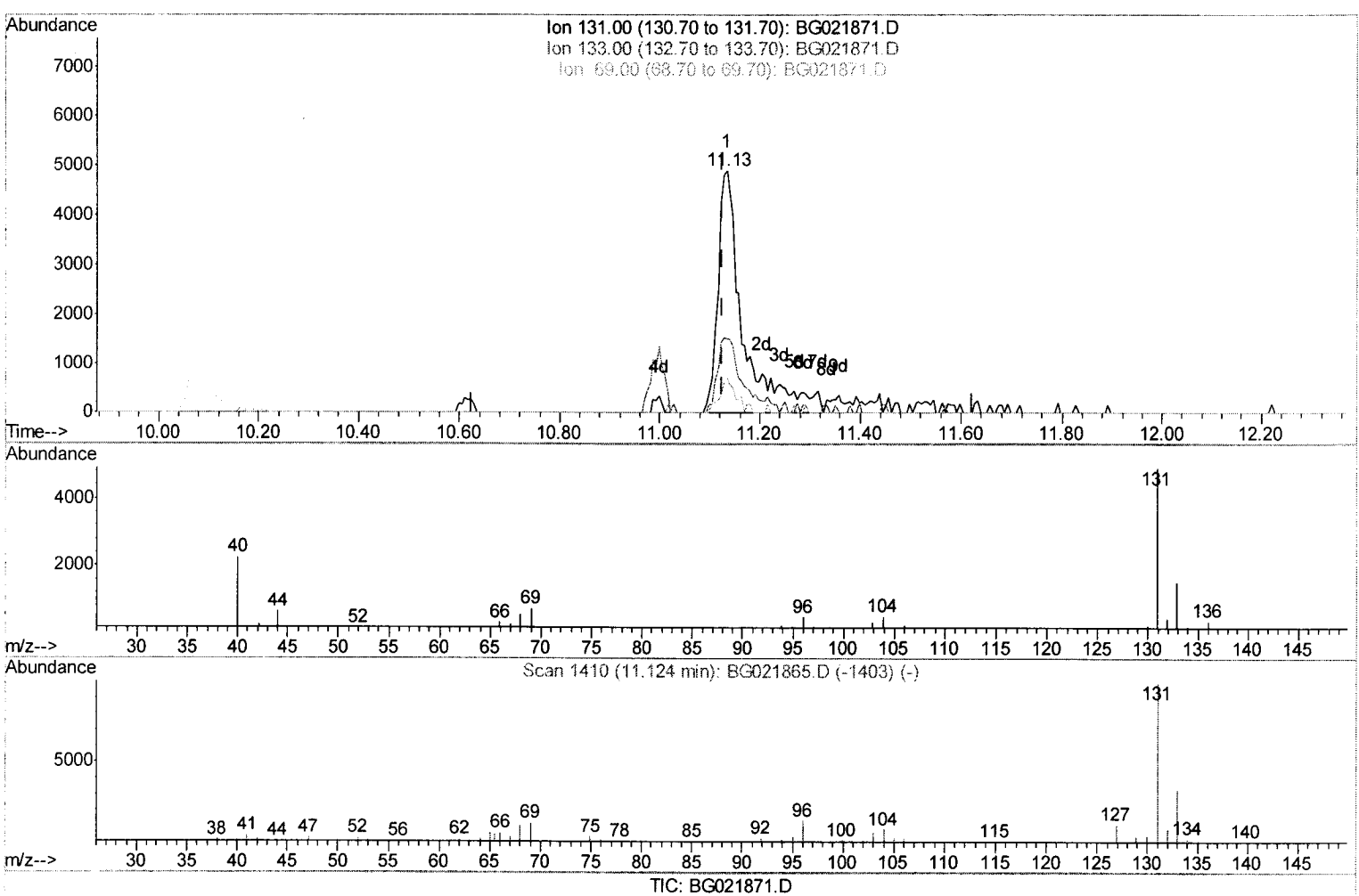
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WJ9DL

Manual Integrations  
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Quant Time: May 13 05:00:29 2016  
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(29) 4-Chloroaniline-d4 (S)

11.134min (+0.010) 4.18ng/ul m

response 17355

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 131.00 | 100   | 100    |
| 133.00 | 34.60 | 31.13  |
| 69.00  | 23.00 | 14.55# |
| 0.00   | 0.00  | 0.00   |

>  $\frac{U \cdot M}{0.5/16/16}$

# Quantitation Report (Qedit)

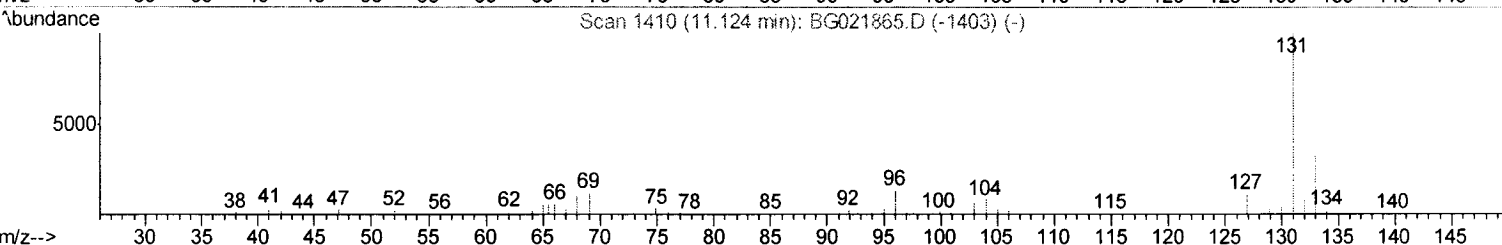
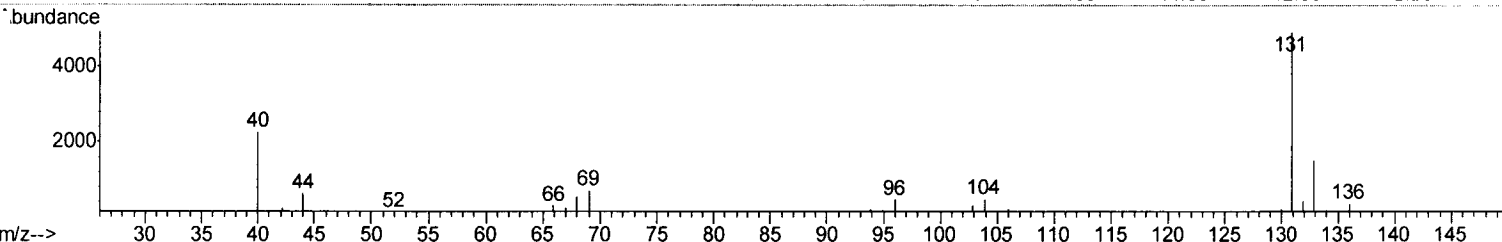
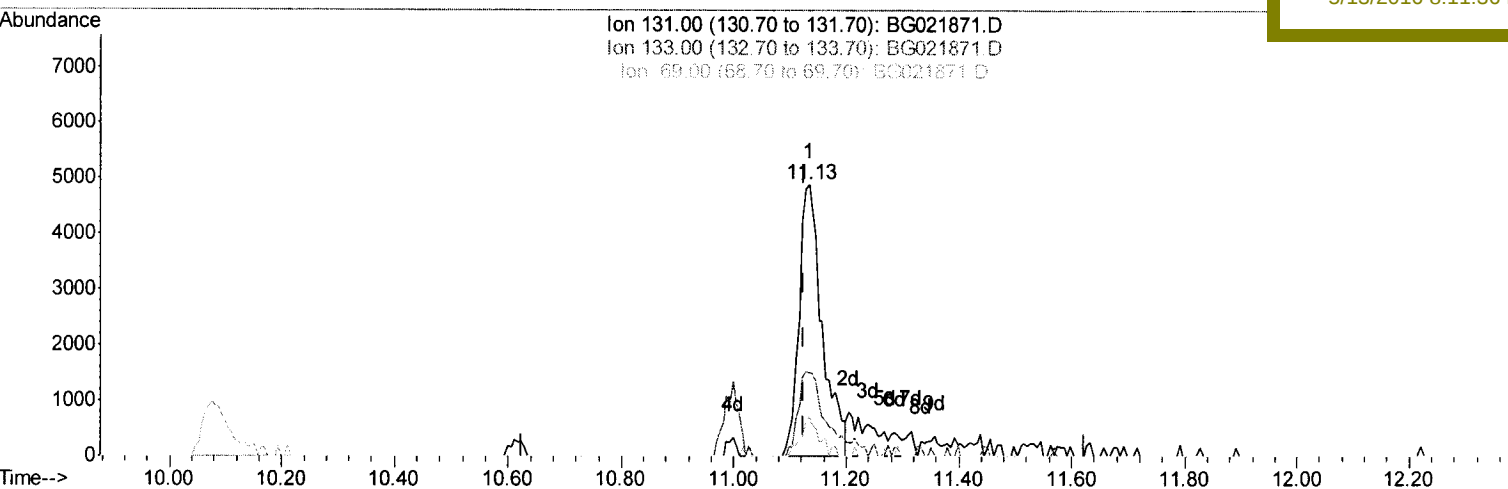
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
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 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

**Instrument :**  
 BNA\_G  
**ClientSampleId :**  
 D9WJ9DL

Quant Time: May 13 05:00:29 2016  
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**Manual Integrations**  
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sohil  
 5/13/2016 8:11:36 PM



TIC: BG021871.D

(29) 4-Chloroaniline-d4 (S)

11.134min (+0.010) 3.38ng/ul

response 14053

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 131.00 | 100   | 100    |
| 133.00 | 34.60 | 31.13  |
| 69.00  | 23.00 | 14.55# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

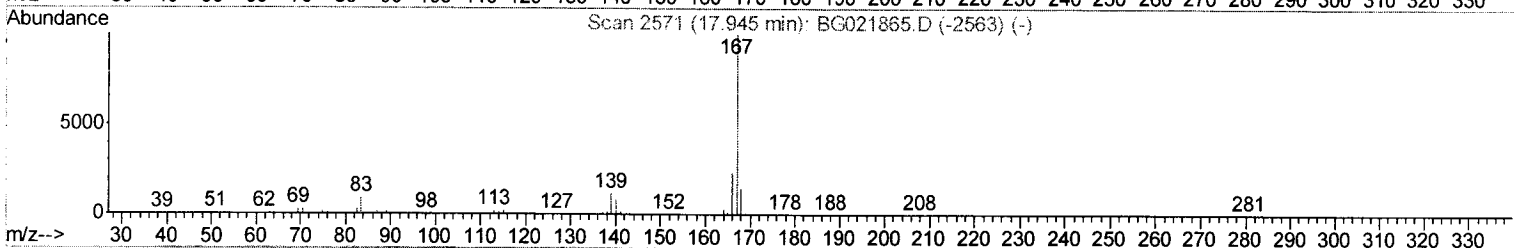
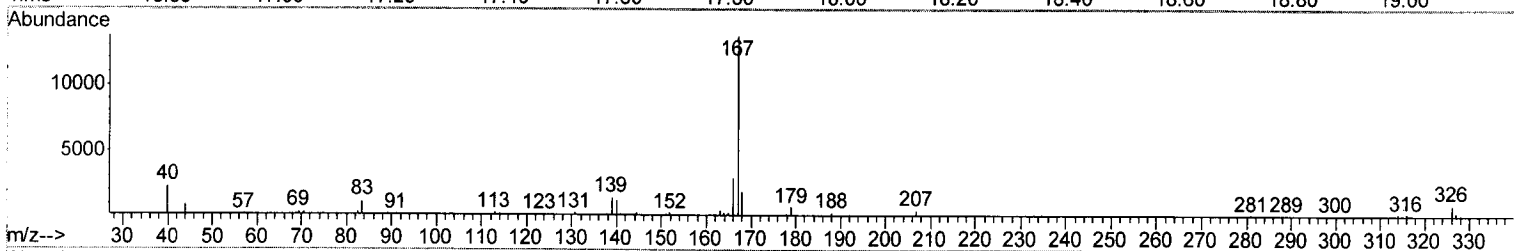
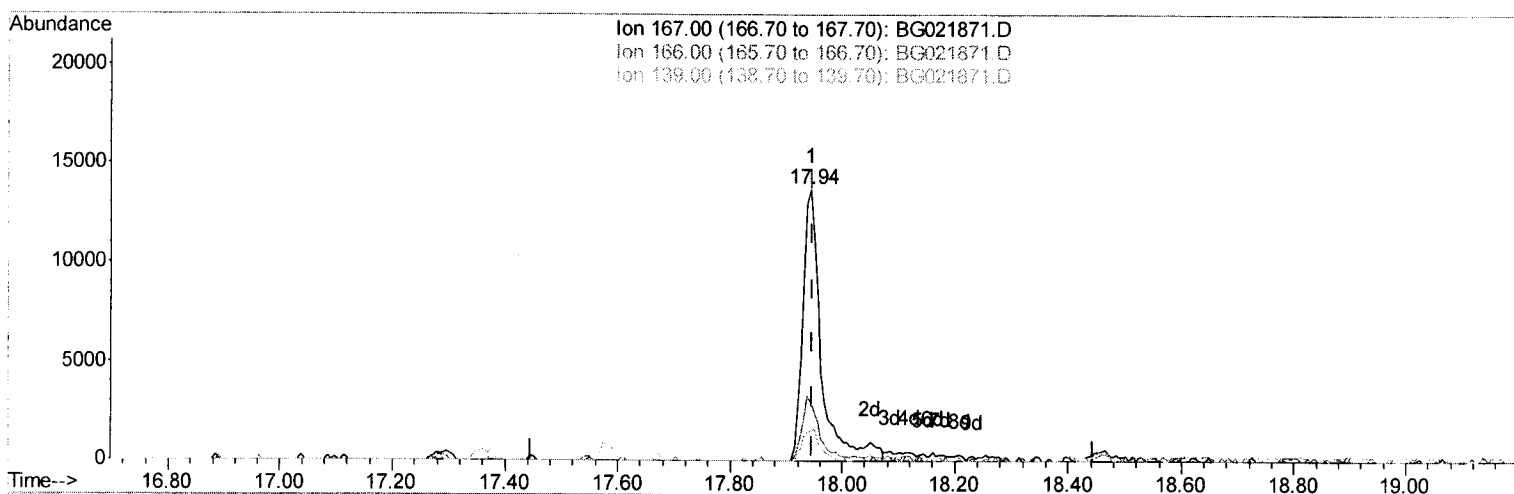
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Instrument :  
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TIC: BG021871.D

(73) Carbazole

17.943min (-0.002) 1.46ng/ul m

response 31423

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 167.00 | 100   | 100    |
| 166.00 | 23.70 | 21.42  |
| 139.00 | 15.30 | 10.79# |
| 0.00   | 0.00  | 0.00   |

> 0.3  
 05/16/16

# Quantitation Report (Qedit)

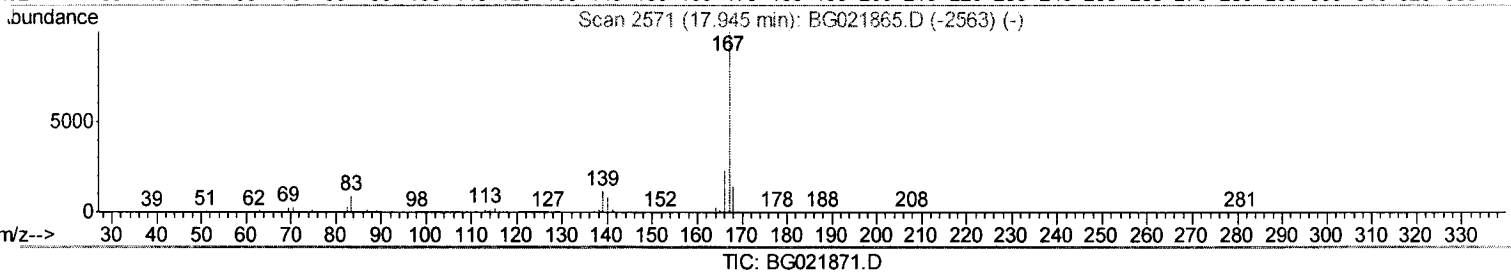
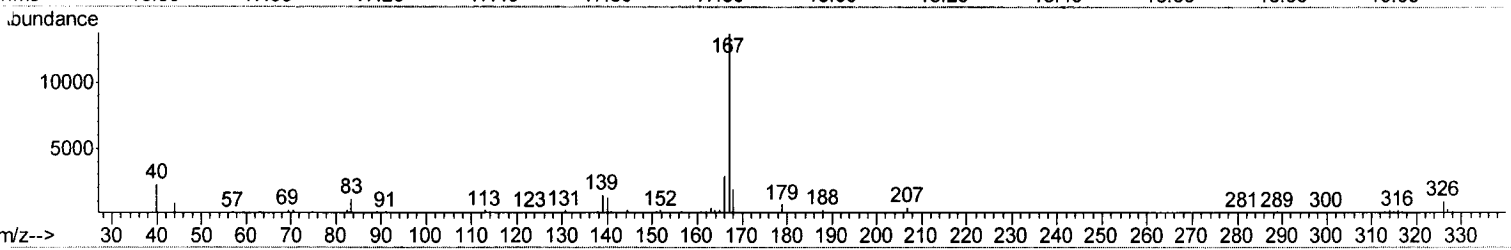
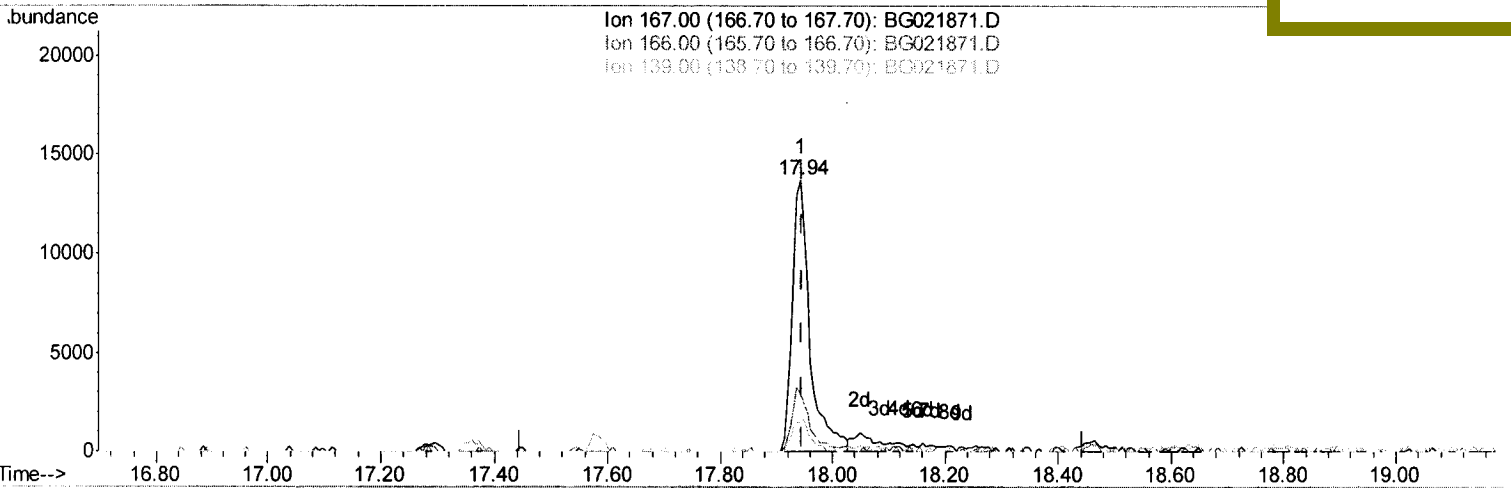
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
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sohil  
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(73) Carbazole

17.943min (-0.002) 1.37ng/ul

response 29469

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 167.00 | 100   | 100    |
| 166.00 | 23.70 | 21.42  |
| 139.00 | 15.30 | 10.79# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

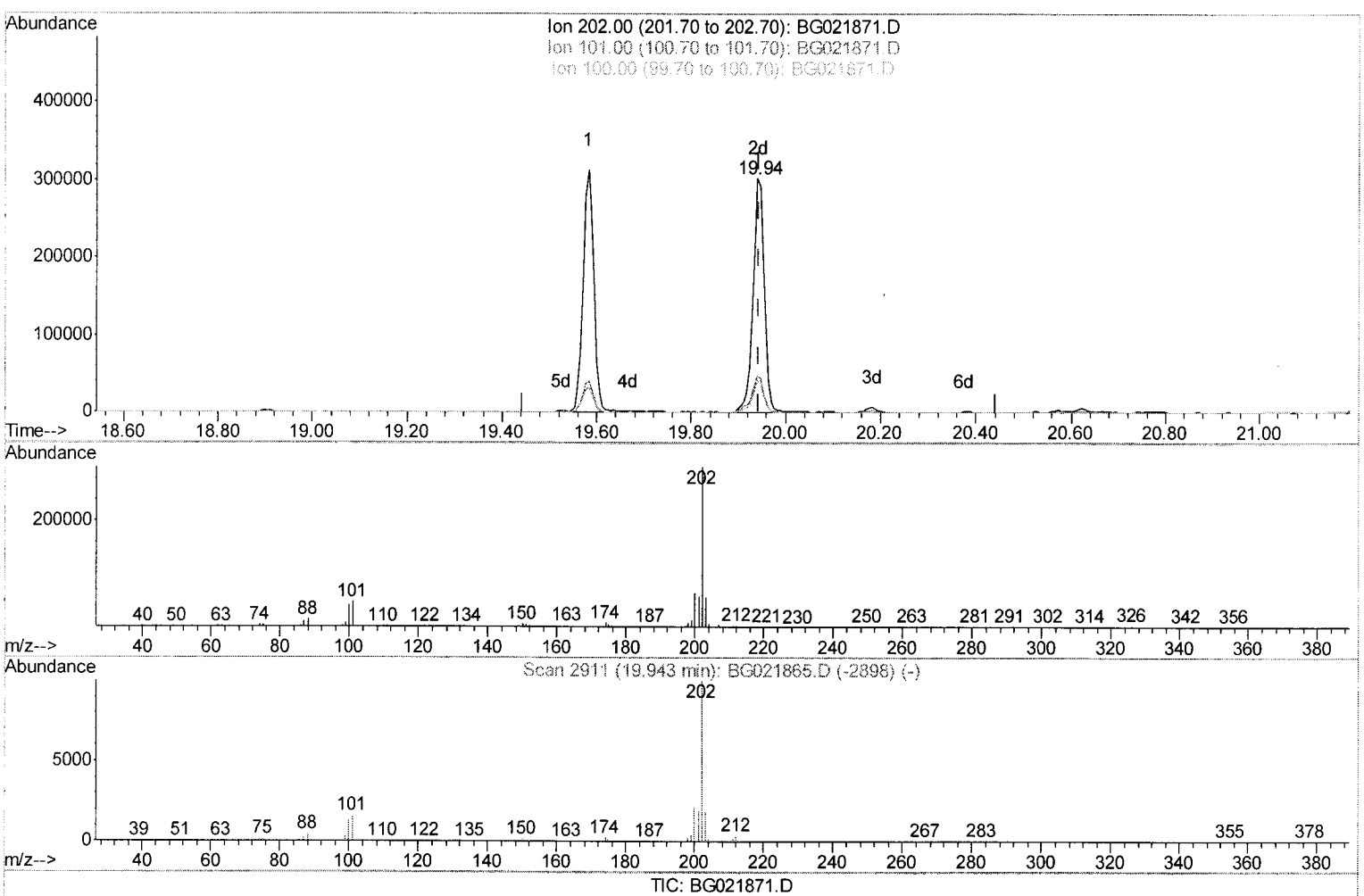
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
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(78) Pyrene

19.941min (-0.002) 19.52ng/ul m

response 504662

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 12.30 | 15.50# |
| 100.00 | 11.60 | 13.54  |
| 0.00   | 0.00  | 0.00   |

> U.M  
 05/16/16

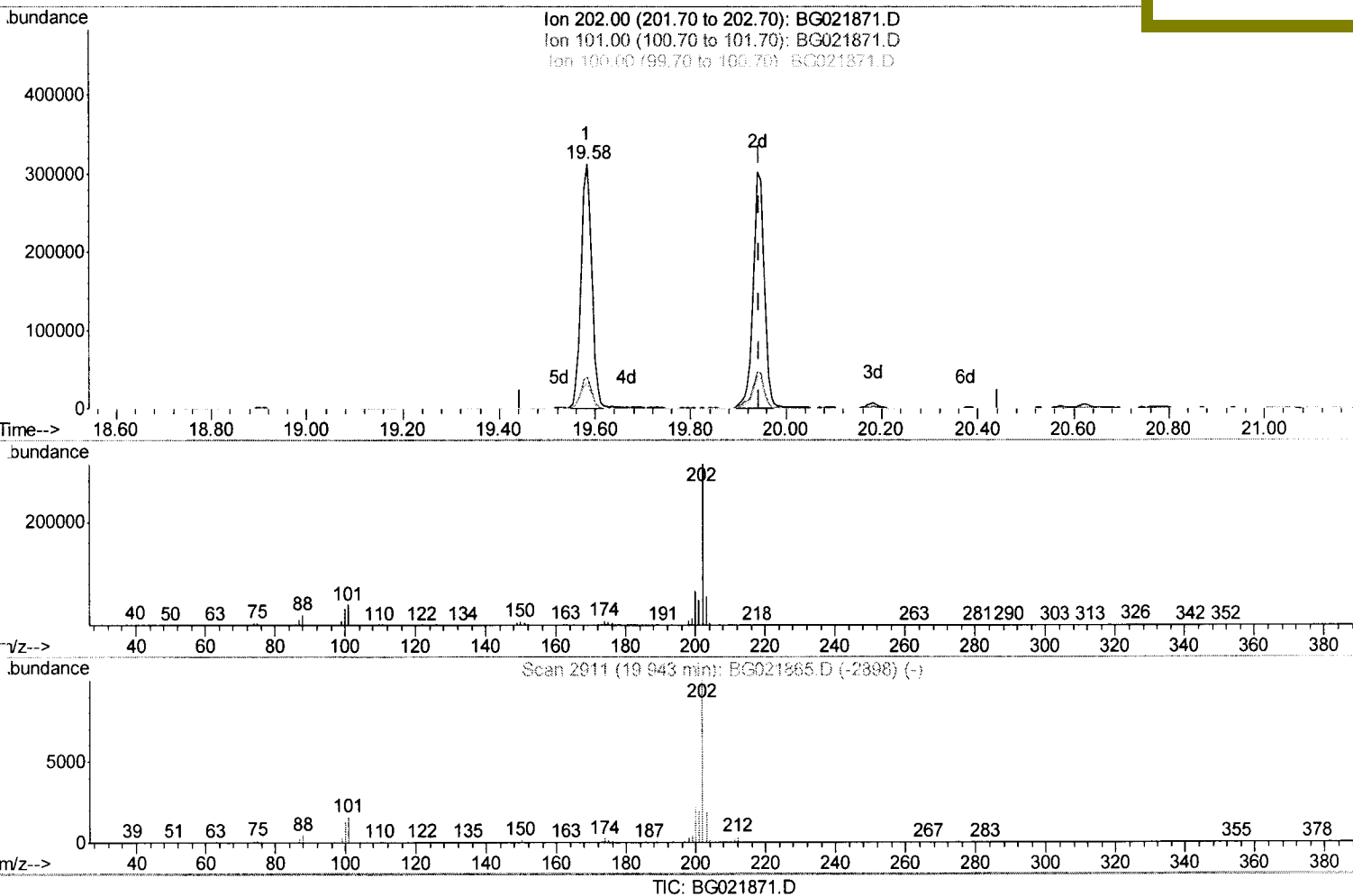
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9WJ9DL

Quant Time: May 13 05:00:29 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 13 04:58:59 2016  
Response via : Initial Calibration

Manual Integrations  
APPROVED

sohil  
5/13/2016 8:11:36 PM



(78) Pyrene

19.582min (-0.360) 18.93ng/ul

response 489545

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.30 | 12.96 |
| 100.00 | 11.60 | 10.59 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

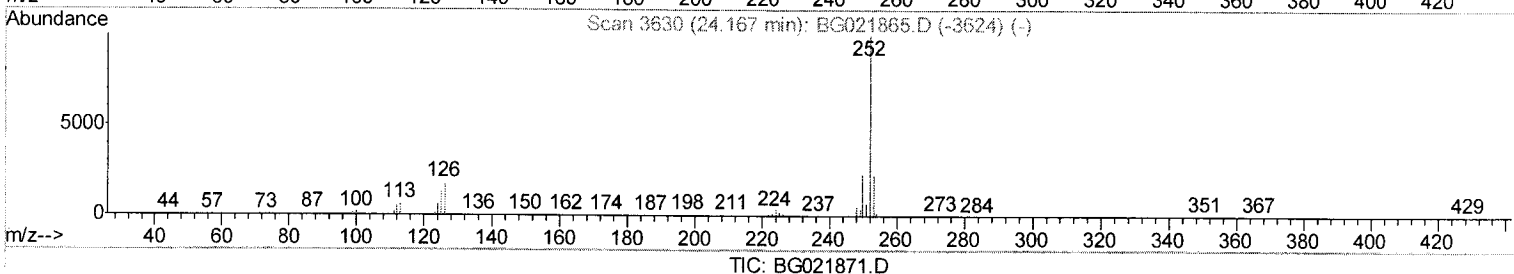
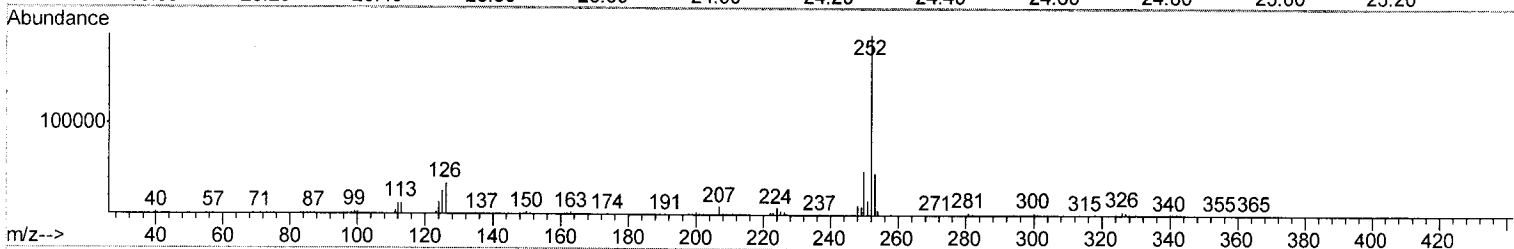
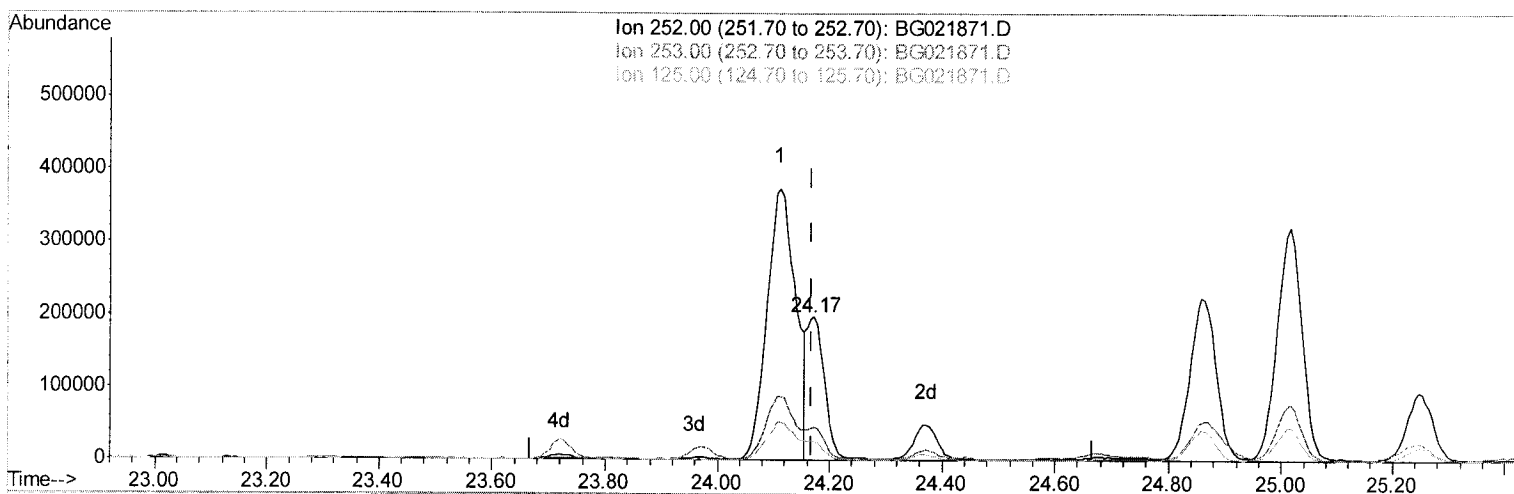
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WJ9DL

Manual Integrations  
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Quant Time: May 13 05:00:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 13 04:58:59 2016  
 Response via : Initial Calibration



(87) Benzo(k)fluoranthene

24.171min (+0.004) 16.00ng/ul m

response 440900

> 0.3  
 05/16/16

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 22.30 | 23.30  |
| 125.00 | 9.60  | 13.00# |
| 0.00   | 0.00  | 0.00   |

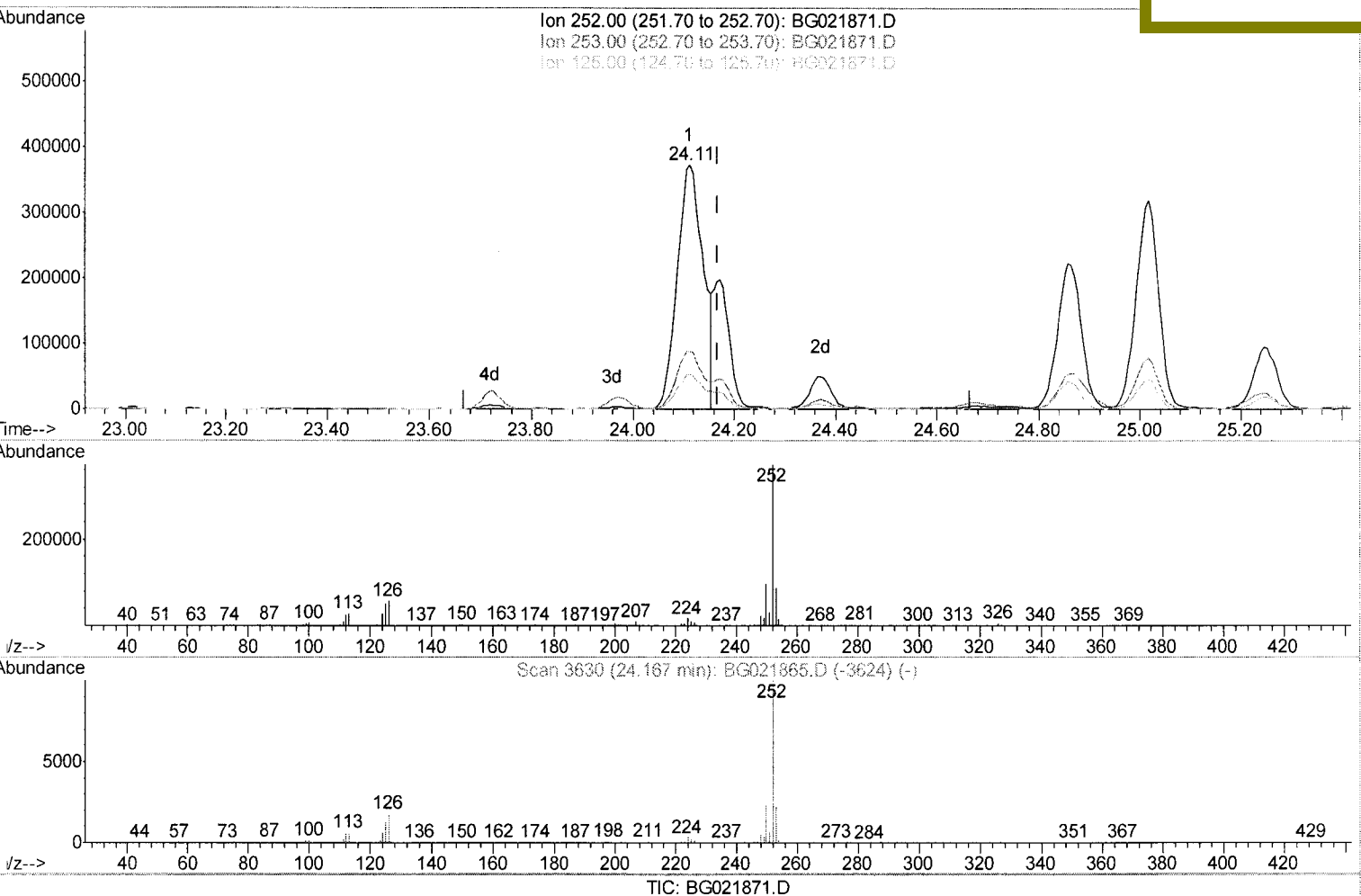
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
Data File : BG021871.D  
Acq On : 12 May 2016 16:34  
Operator : UM/SJ  
Sample : H2936-10DL 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9WJ9DL

Manual Integrations  
APPROVED

sohil  
5/13/2016 8:11:36 PM

Quant Time: May 13 05:00:29 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 13 04:58:59 2016  
Response via : Initial Calibration



(87) Benzo(k)fluoranthene

24.112min (-0.055) 47.84ng/ul

response 1318623

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 22.30 | 23.67  |
| 125.00 | 9.60  | 14.05# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

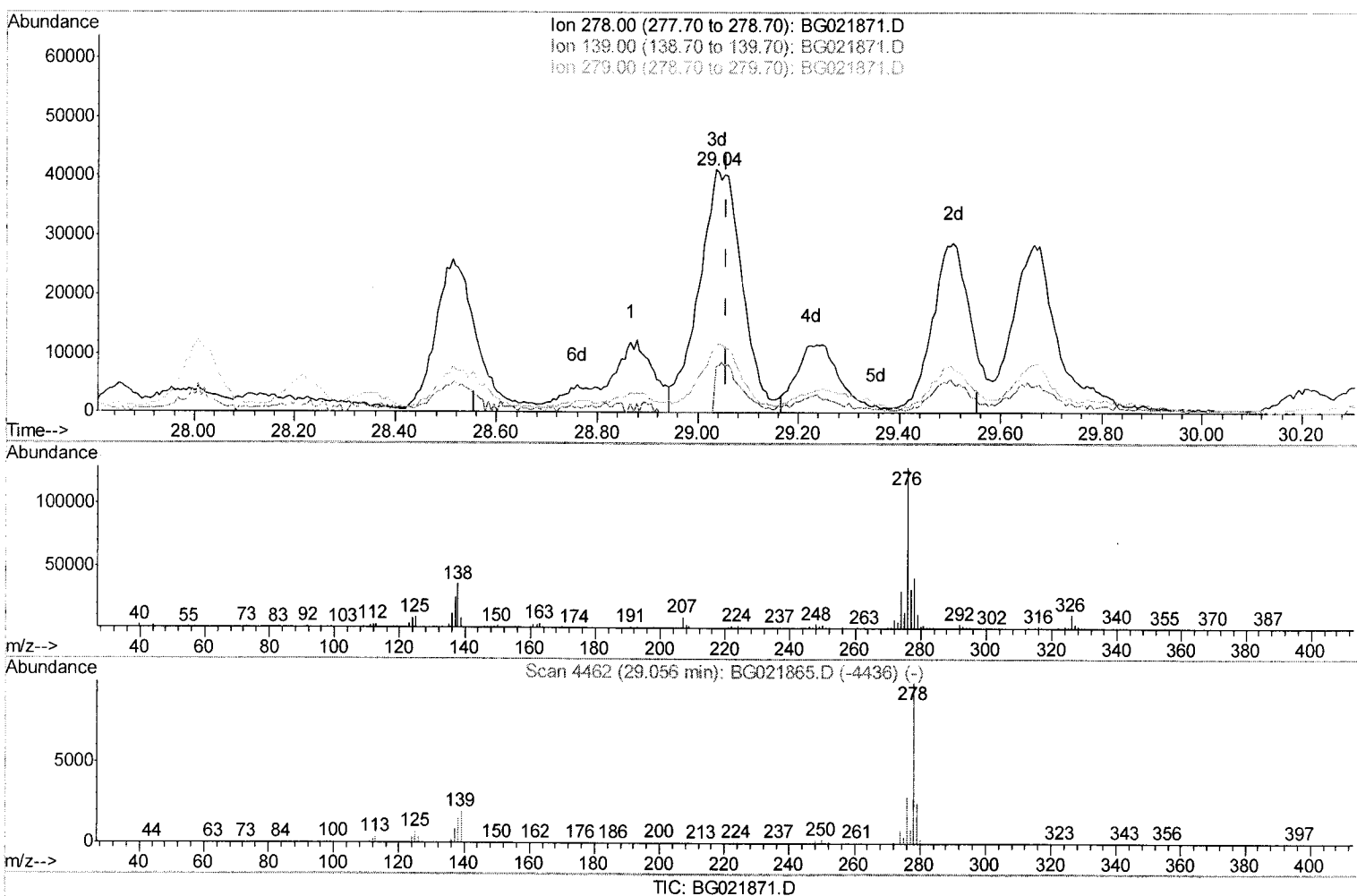
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 D9WJ9DL

Manual Integrations  
 APPROVED

sohil  
 5/13/2016 8:11:36 PM

Quant Time: May 13 05:00:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 13 04:58:59 2016  
 Response via : Initial Calibration



(91) Dibenzo(a,h)anthracene

29.036min (-0.020) 9.69ng/ul m

response 245044

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 15.10 | 19.17# |
| 279.00 | 24.80 | 27.87  |
| 0.00   | 0.00  | 0.00   |

> 0.0 M  
 05/16/16

# Quantitation Report (Qedit)

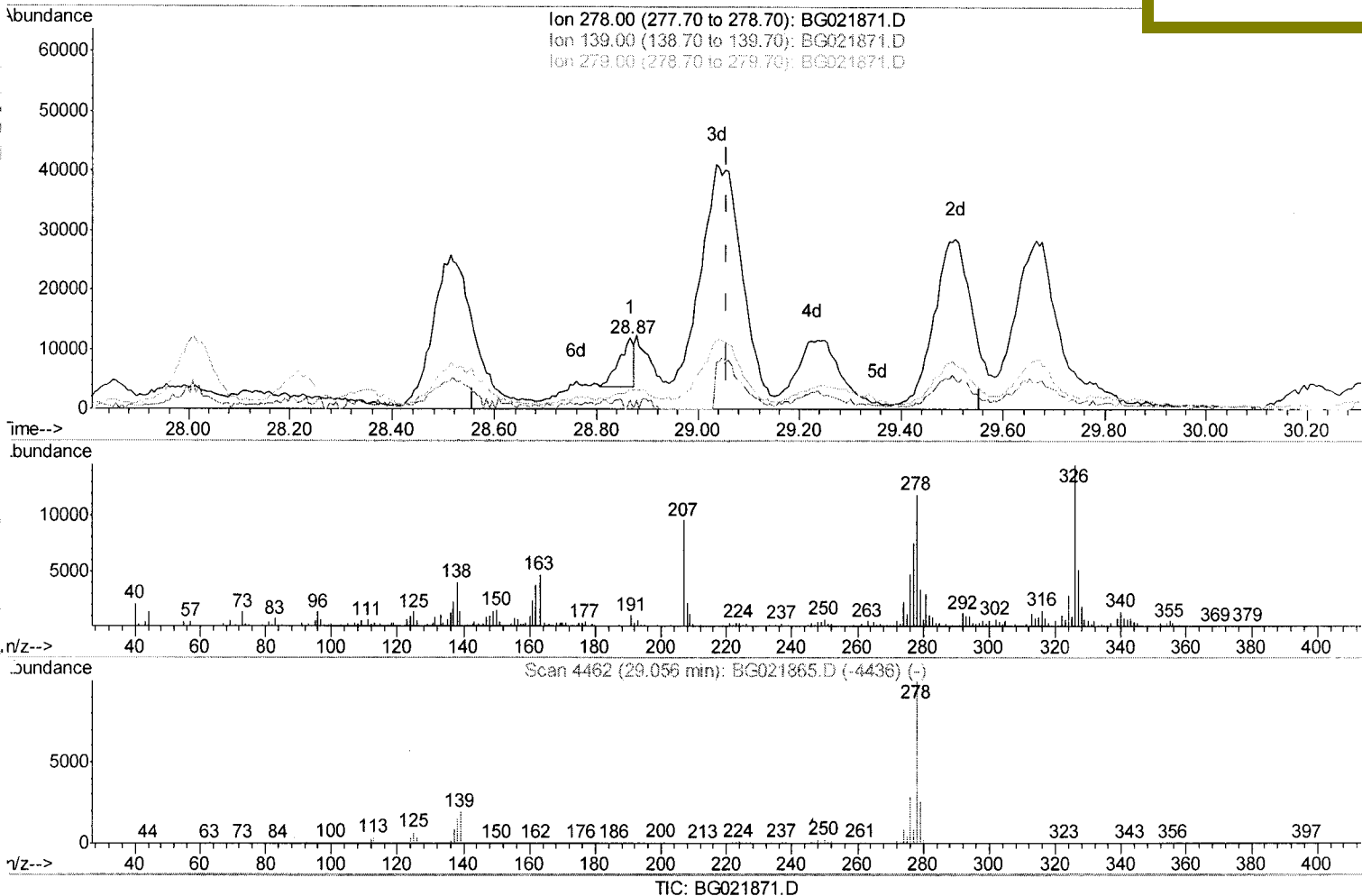
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

**Instrument :**  
 BNA\_G  
**ClientSampleId :**  
 D9WJ9DL

Quant Time: May 13 05:00:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 13 04:58:59 2016  
 Response via : Initial Calibration

**Manual Integrations**  
**APPROVED**

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 5/13/2016 8:11:36 PM



(91) Dibenzo(a,h)anthracene

28.866min (-0.190) 0.64ng/ul

response 16052

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 278.00 | 100   | 100   |
| 139.00 | 15.10 | 12.14 |
| 279.00 | 24.80 | 28.74 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021871.D  
 Acq On : 12 May 2016 16:34  
 Operator : UM/SJ  
 Sample : H2936-10DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WJ9DL

Quant Time: May 13 05:58:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 13 04:58:59 2016  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 5/13/2016 8:11:36 PM

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.17  | 152  | 58294    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.99 | 136  | 328450   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.79 | 164  | 210233   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.54 | 188  | 448219   | 20.00 | ng/ul | 0.00     |
| 76) Chrysene-d12          | 21.83 | 240  | 446880   | 20.00 | ng/ul | 0.00     |
| 84) Perylene-d12          | 25.18 | 264  | 449761   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.56  | 96  | 929    | 0.77 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.33  | 99  | 20464  | 4.73 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.50  | 67  | 8260   | 3.85 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.70  | 132 | 21960  | 6.54 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.87  | 113 | 19543m | 5.38 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.35  | 128 | 10026m | 4.64 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.07 | 143 | 11033m | 8.09 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.61 | 165 | 23259m | 6.03 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.13 | 131 | 17355m | 4.18 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.19 | 166 | 73987  | 5.01 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.49 | 160 | 100742 | 4.81 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0d     | 0.00 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.78 | 176 | 66678  | 4.29 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0      | 0.00 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.64 | 188 | 99794  | 4.57 | ng/ul | 0.00 |
| 77) Pyrene-d10                 | 19.91 | 212 | 102583 | 4.90 | ng/ul | 0.00 |
| 88) Benzo(a)pyrene-d12         | 24.94 | 264 | 96060  | 4.50 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |              | Qvalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 70) Phenanthrene               | 17.58 | 178 | 131697  | 5.37 ng/ul   | 99     |
| 72) Anthracene                 | 17.67 | 178 | 24961   | 1.00 ng/ul   | 97     |
| 73) Carbazole                  | 17.94 | 167 | 31423m  | 1.46 ng/ul   |        |
| 75) Fluoranthene               | 19.58 | 202 | 489545  | 17.58 ng/ul# | 95     |
| 78) Pyrene                     | 19.94 | 202 | 504662m | 19.52 ng/ul  |        |
| 81) Benzo(a)anthracene         | 21.80 | 228 | 512160  | 20.59 ng/ul  | 97     |
| 82) Bis(2-ethylhexyl)phthalate | 21.69 | 149 | 15438   | 1.65 ng/ul#  | 98     |
| 83) Chrysene                   | 21.87 | 228 | 582951  | 23.70 ng/ul  | 95     |
| 86) Benzo(b)fluoranthene       | 24.11 | 252 | 1318623 | 51.22 ng/ul# | 95     |
| 87) Benzo(k)fluoranthene       | 24.17 | 252 | 440900m | 16.00 ng/ul  |        |
| 89) Benzo(a)pyrene             | 25.02 | 252 | 985812  | 38.47 ng/ul# | 93     |
| 90) Indeno(1,2,3-cd)pyrene     | 29.01 | 276 | 876595  | 28.86 ng/ul# | 93     |
| 91) Dibenzo(a,h)anthracene     | 29.04 | 278 | 245044m | 9.69 ng/ul   |        |
| 92) Benzo(g,h,i)perylene       | 30.21 | 276 | 783339  | 31.25 ng/ul# | 92     |

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