

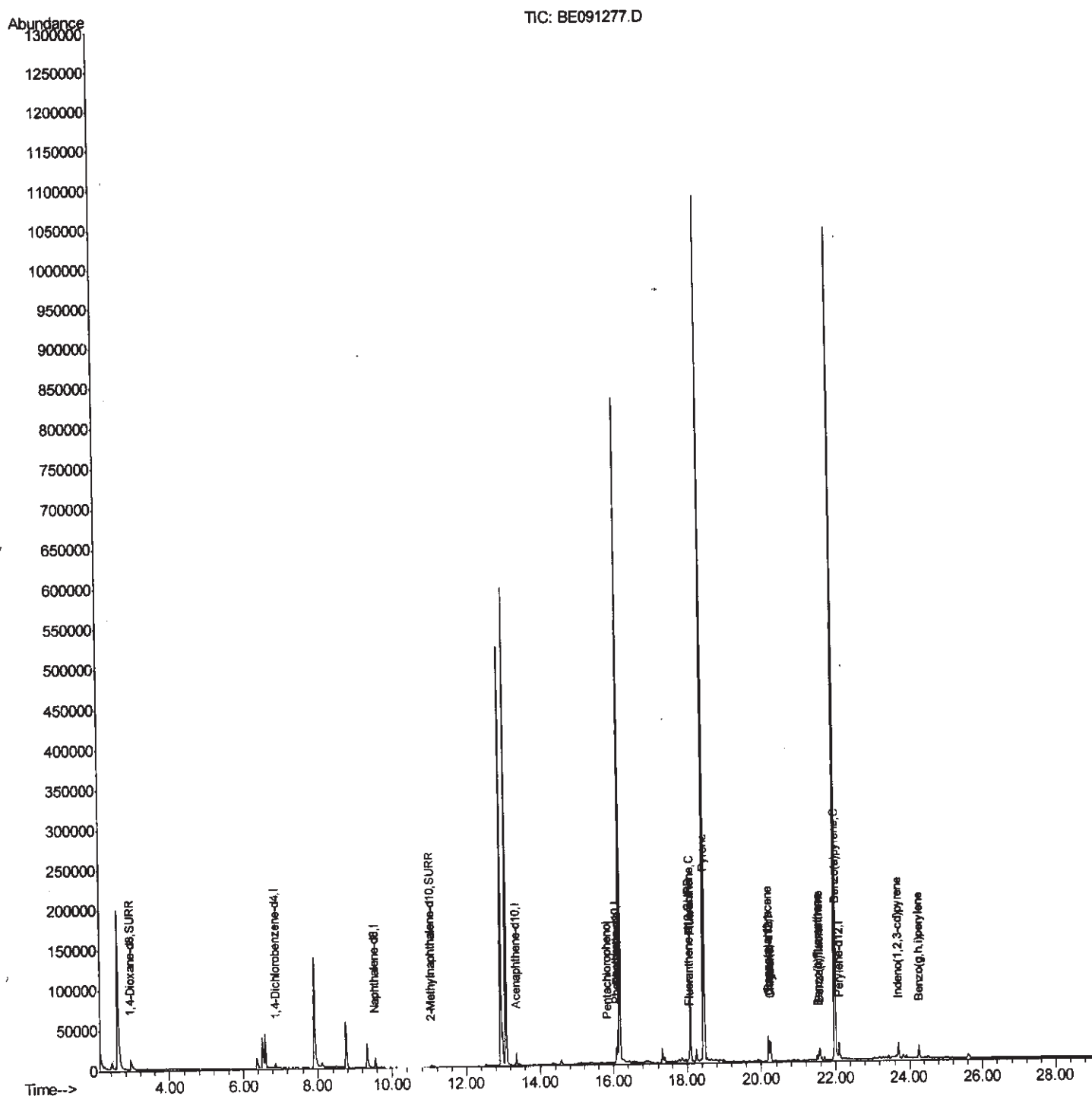
Data Path : Z:\HPCHEM1\BNA E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 23 10:16:42 2015  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:30:49 2015  
Response via : Initial Calibration

Manual Integrations  
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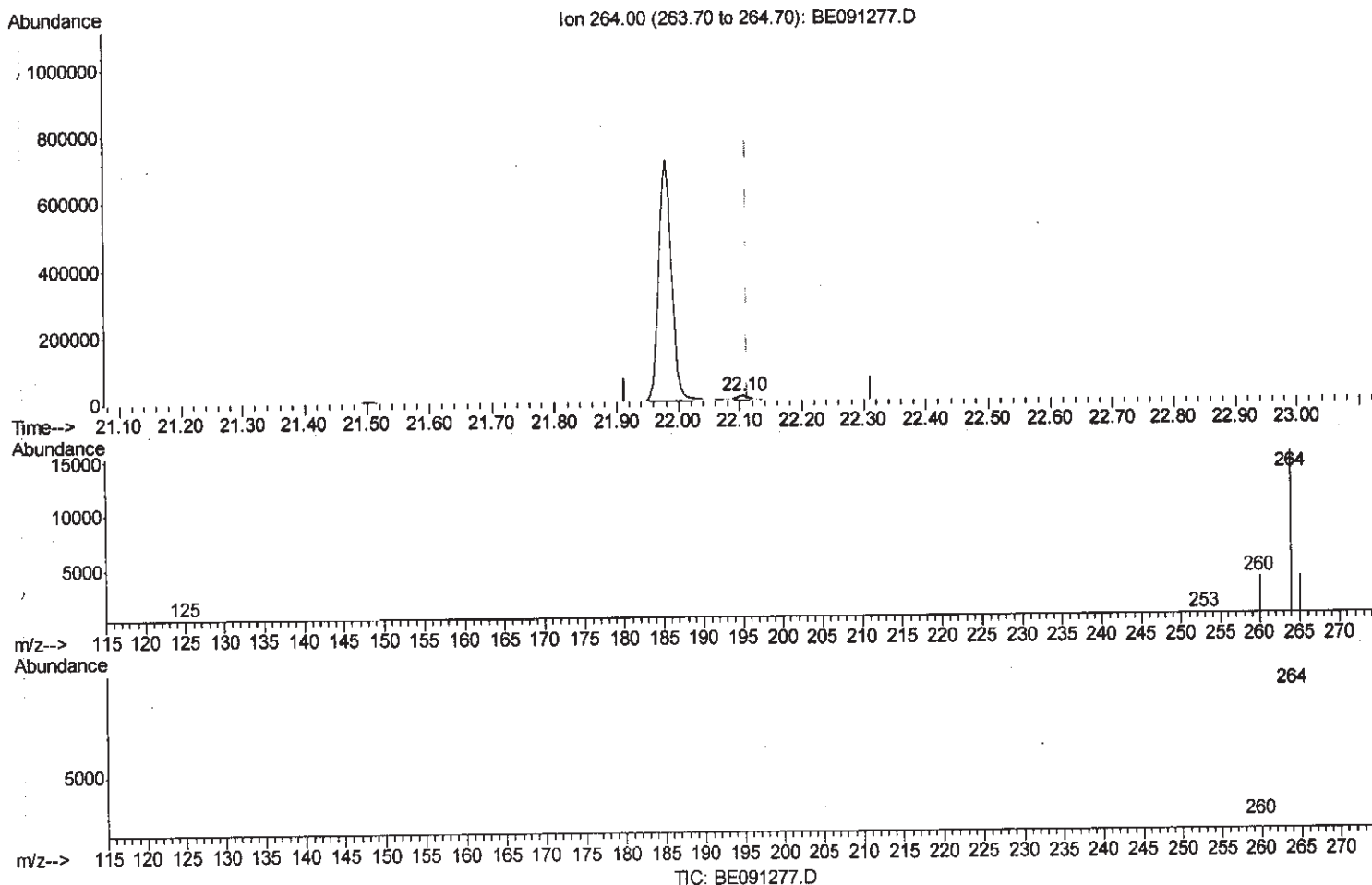
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
 Data File : BE091277.D  
 Acq On : 21 Nov 2015 14:51  
 Operator : UM/NP  
 Sample : G4346-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4J72

Quant Time: Nov 22 01:50:27 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 01:30:49 2015  
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(22) Perylene-d12 (I)  
 22.104min (-0.009) 0.40ng/ul m  
 response 17669

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 264.00 | 100   | 100    |
| 260.00 | 28.90 | 24.91  |
| 265.00 | 34.70 | 24.78# |
| 0.00   | 0.00  | 0.00   |

UAI  
 11/23/15

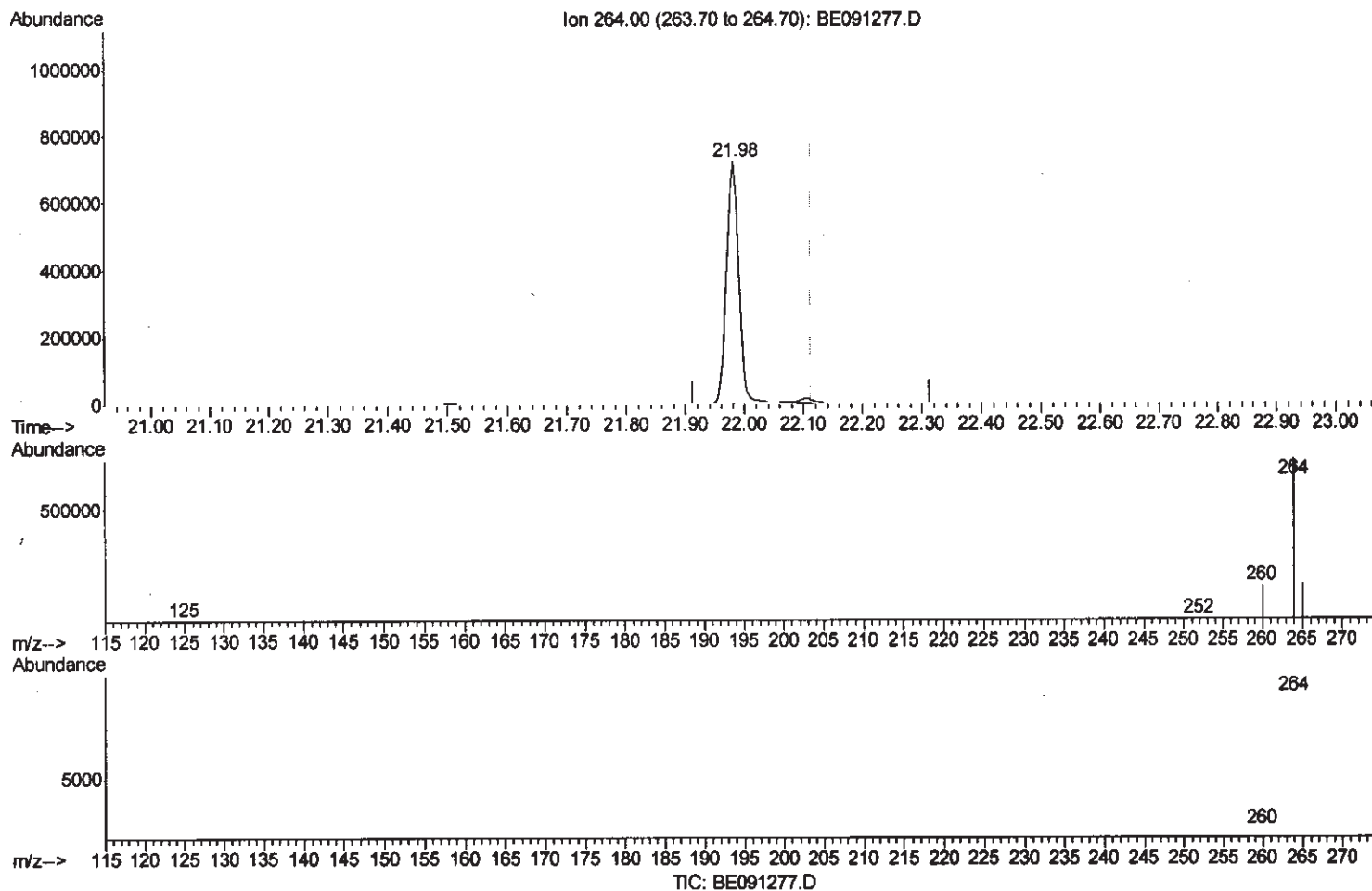
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 22 01:50:27 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Manual Integrations  
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(22) Perylene-d12 (I)

21.981min (-0.131) 0.40ng/ul

response 1057880

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 264.00 | 100   | 100    |
| 260.00 | 28.90 | 21.05# |
| 265.00 | 34.70 | 22.10# |
| 0.00   | 0.00  | 0.00   |

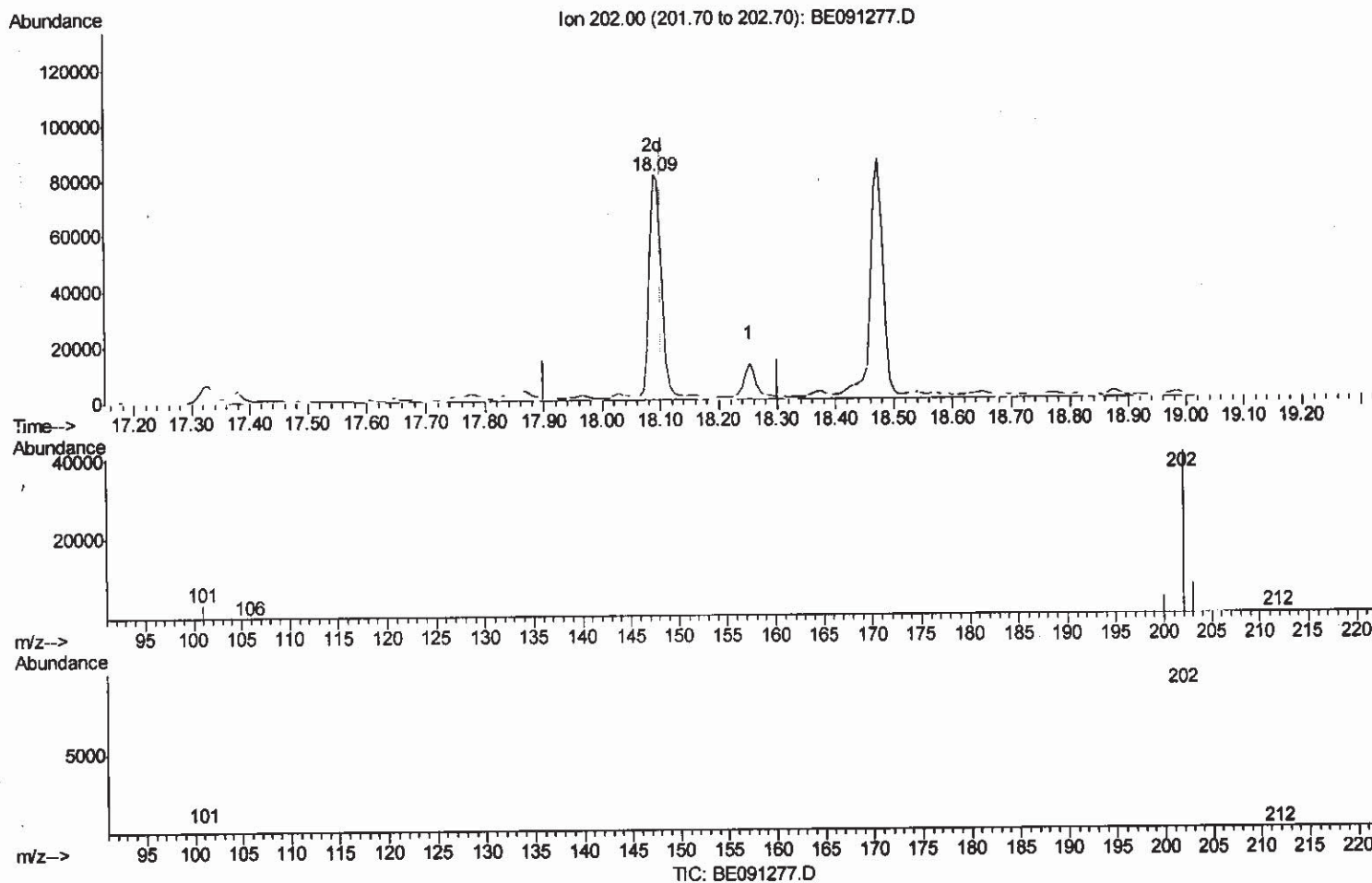
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 22 01:50:27 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:30:49 2015  
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Manual Integrations  
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(17) Fluoranthene (C)

18.089min (-0.012) 0.44ng/ul m

response 113840

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 13.10 | 8.74  |
| 203.00 | 17.20 | 17.99 |
| 0.00   | 0.00  | 0.00  |

Unit  
11/23/15

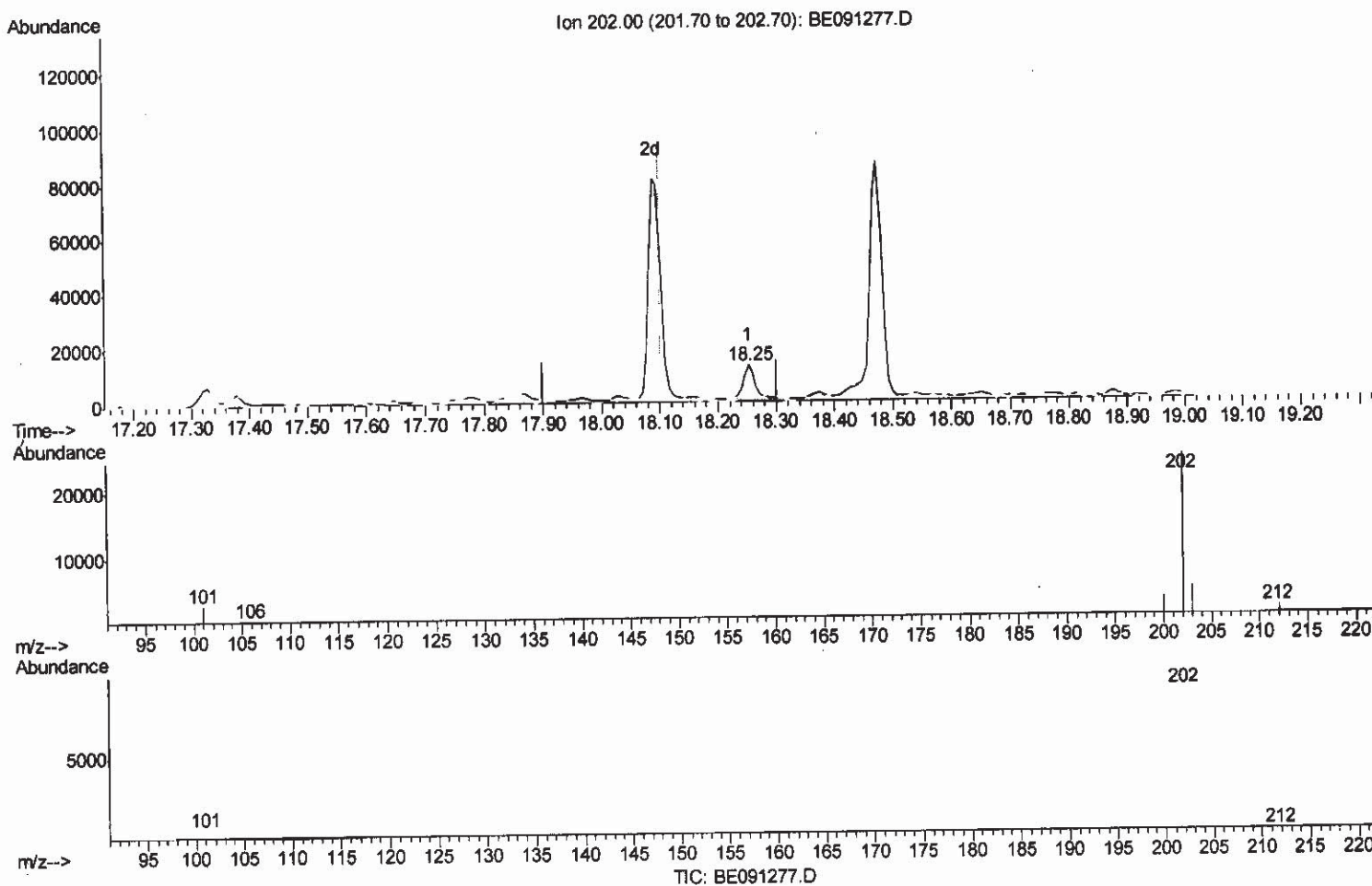
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 22 01:50:27 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:30:49 2015  
Response via : Initial Calibration

Manual Integrations  
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(17) Fluoranthene (C)

18.252min (+0.151) 0.07ng/ul

response 16938

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 13.10 | 4.80  |
| 203.00 | 17.20 | 25.73 |
| 0.00   | 0.00  | 0.00  |

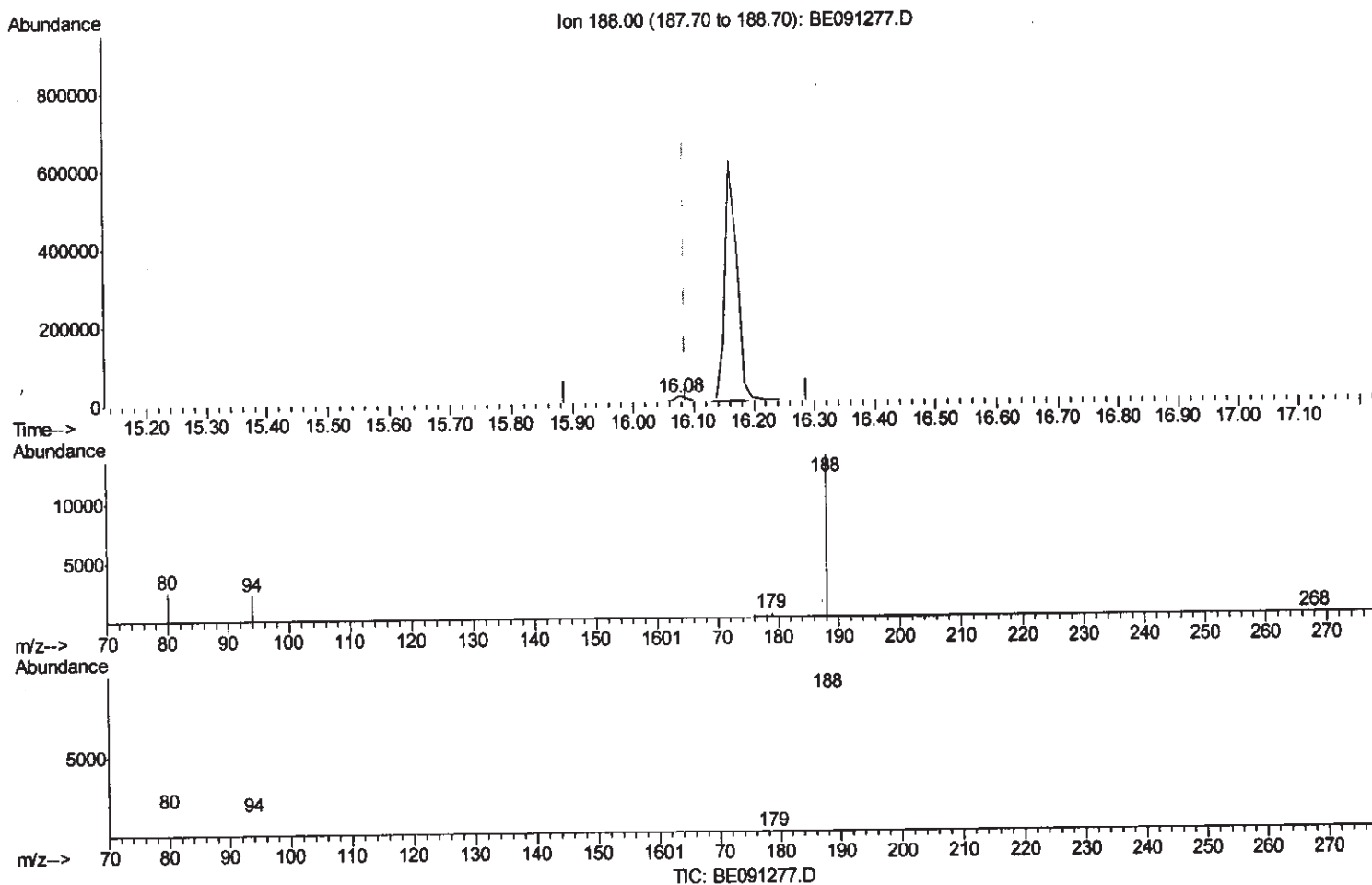
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
 Data File : BE091277.D  
 Acq On : 21 Nov 2015 14:51  
 Operator : UM/NP  
 Sample : G4346-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4J72

Manual Integrations  
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Quant Time: Nov 22 01:33:32 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 01:30:49 2015  
 Response via : Initial Calibration



(12) Phenanthrene-d10 (I)

16.076min (-0.011) 0.40ng/ul m

response 19053

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 188.00 | 100  | 100    |
| 94.00  | 9.00 | 16.50# |
| 80.00  | 8.90 | 18.73# |
| 0.00   | 0.00 | 0.00   |

U-1  
 11/23/15

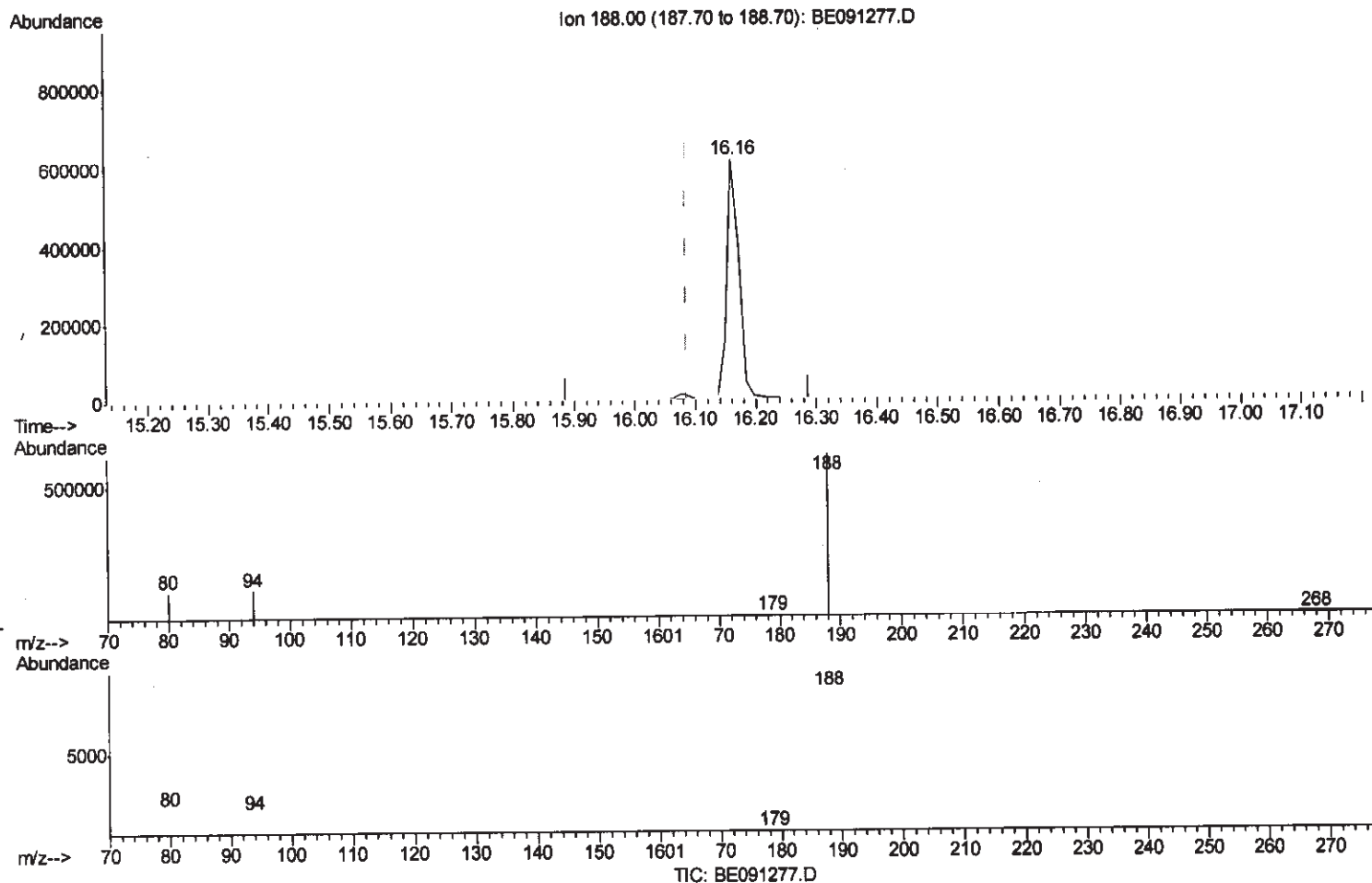
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 22 01:33:32 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:30:49 2015  
Response via : Initial Calibration

Manual Integrations  
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(12) Phenanthrene-d10 (I)

16.161min (+0.074) 0.40ng/ul

response 888605

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 188.00 | 100  | 100    |
| 94.00  | 9.00 | 17.61# |
| 80.00  | 8.90 | 16.51# |
| 0.00   | 0.00 | 0.00   |



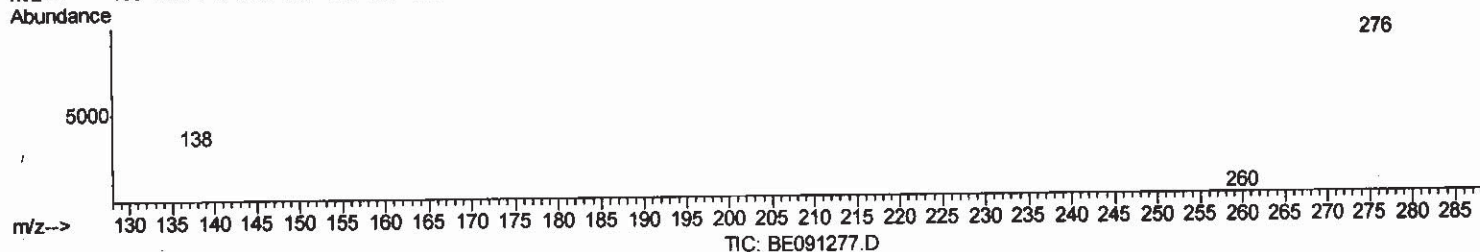
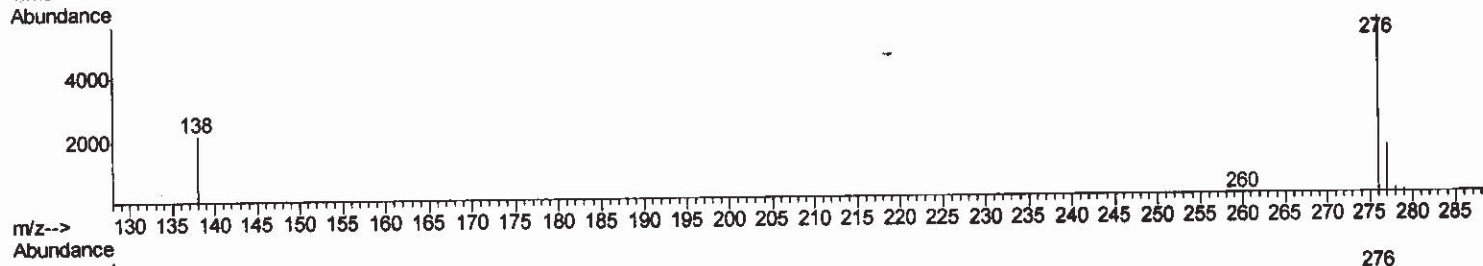
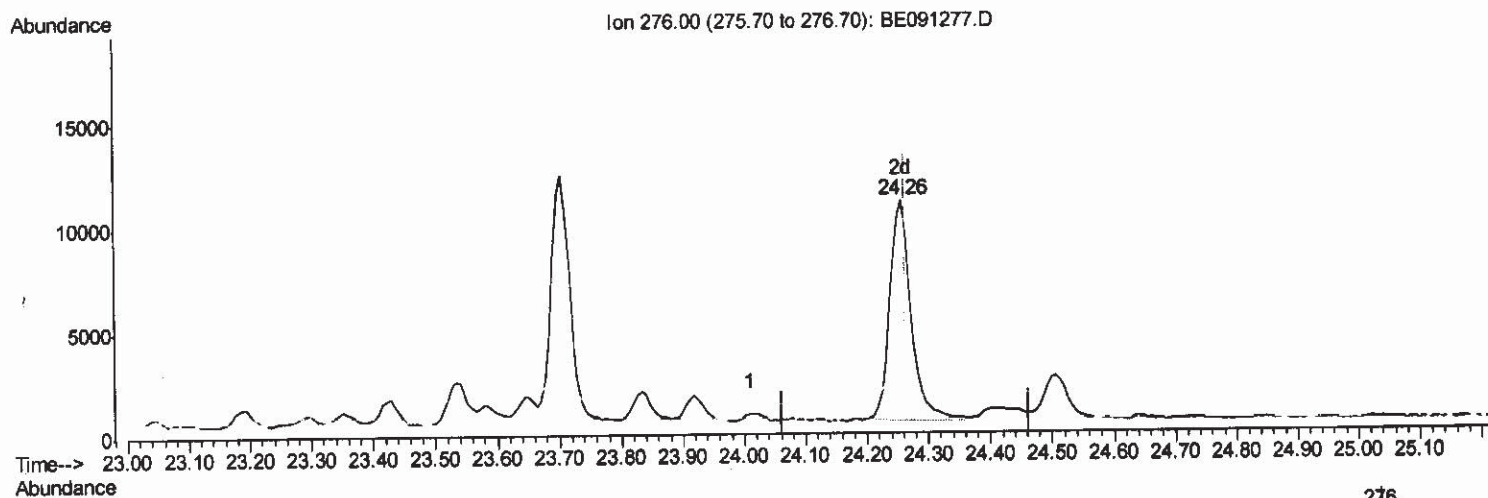
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 22 01:51:52 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:30:49 2015  
Response via : Initial Calibration

Manual Integrations  
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(28) Benzo(g,h,i)perylene

24.257min (-0.006) 0.11ng/ul m

response 25731

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 277.00 | 26.60 | 28.14  |
| 138.00 | 31.90 | 38.47# |
| 0.00   | 0.00  | 0.00   |



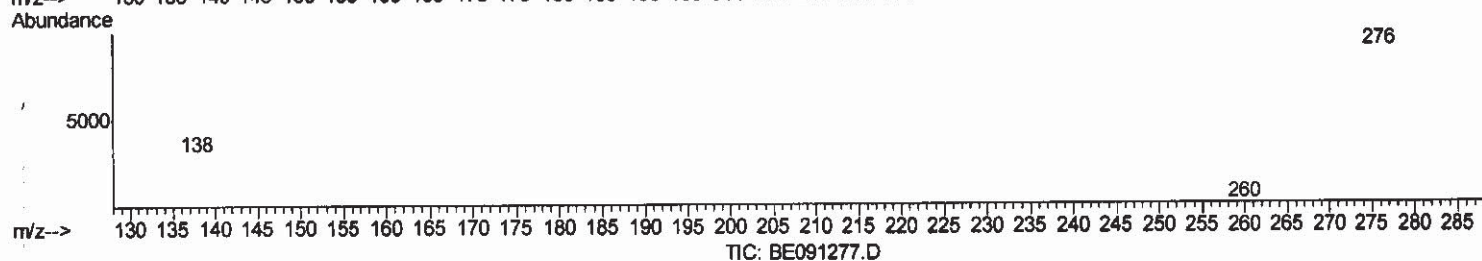
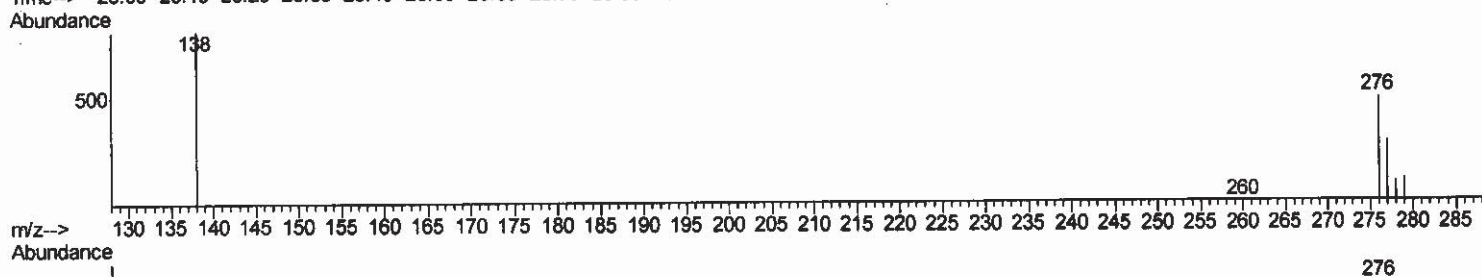
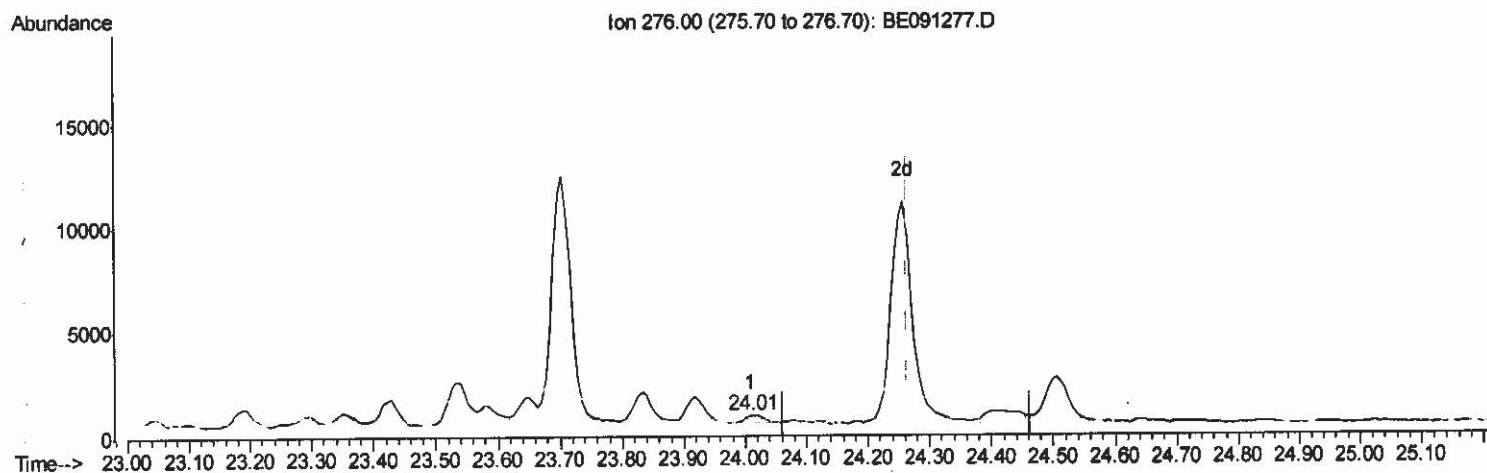
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 22 01:51:52 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:30:49 2015  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Mmdadoda  
11/23/2015 2:14:24 PM



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

24.009min (-0.253) 0.00ng/ul

response 754

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 276.00 | 100   | 100     |
| 277.00 | 26.60 | 67.01#  |
| 138.00 | 31.90 | 155.12# |
| 0.00   | 0.00  | 0.00    |

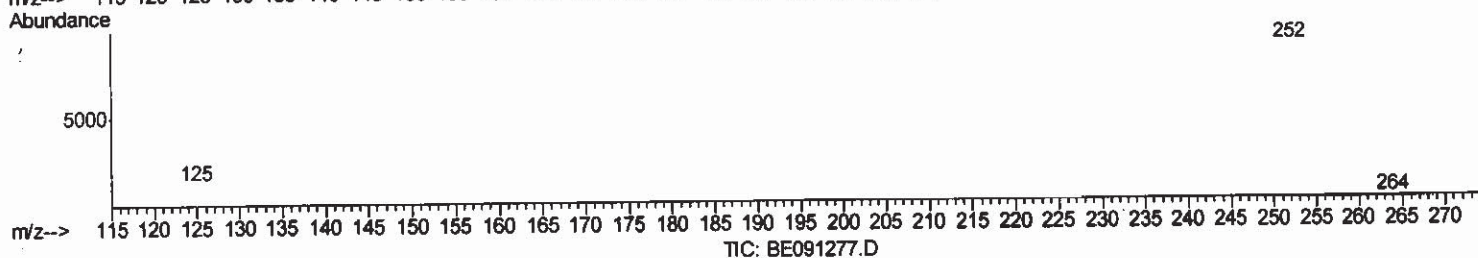
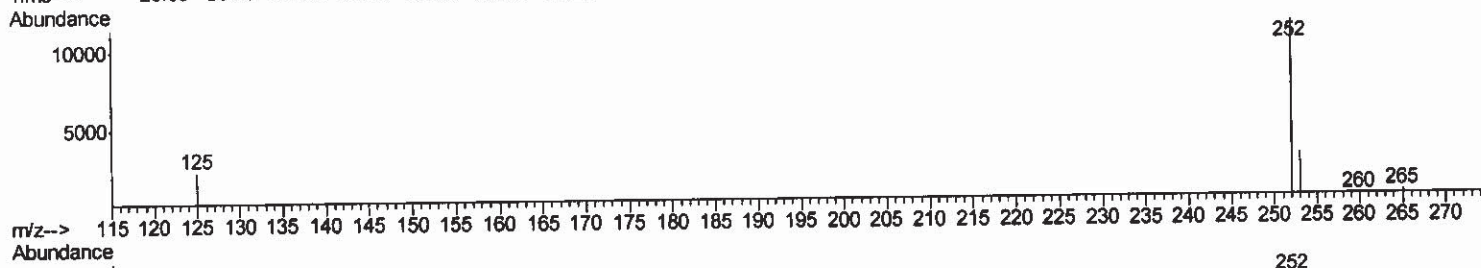
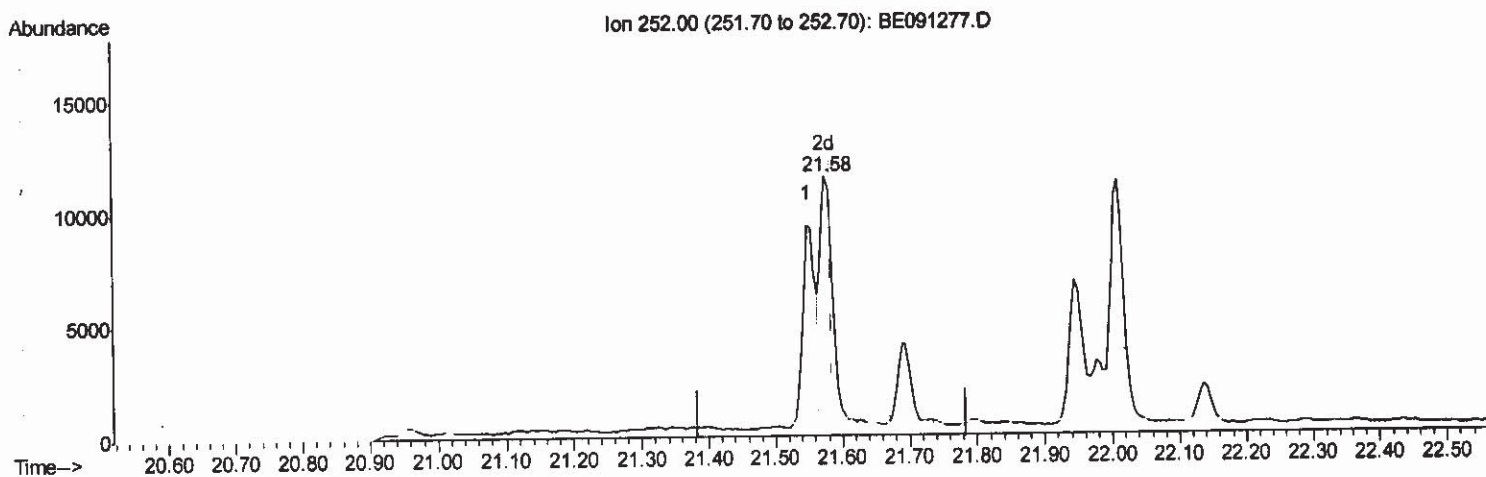
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
 Data File : BE091277.D  
 Acq On : 21 Nov 2015 14:51  
 Operator : UM/NP  
 Sample : G4346-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4J72

Quant Time: Nov 22 01:51:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 01:30:49 2015  
 Response via : Initial Calibration

Manual Integrations  
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 11/23/2015 2:14:24 PM



(24) Benzo(k)fluoranthene

21.576min (-0.009) 0.27ng/ul m

response 15253

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 26.00 | 25.52  |
| 125.00 | 15.30 | 19.29# |
| 0.00   | 0.00  | 0.00   |

*Handwritten:* 11/23 1/5

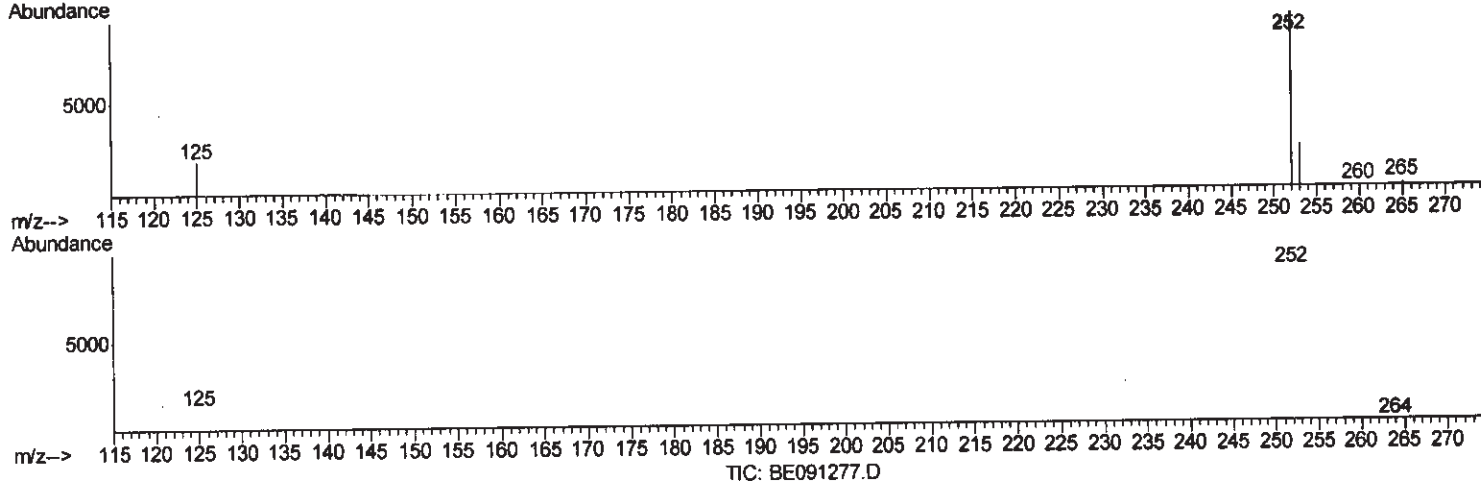
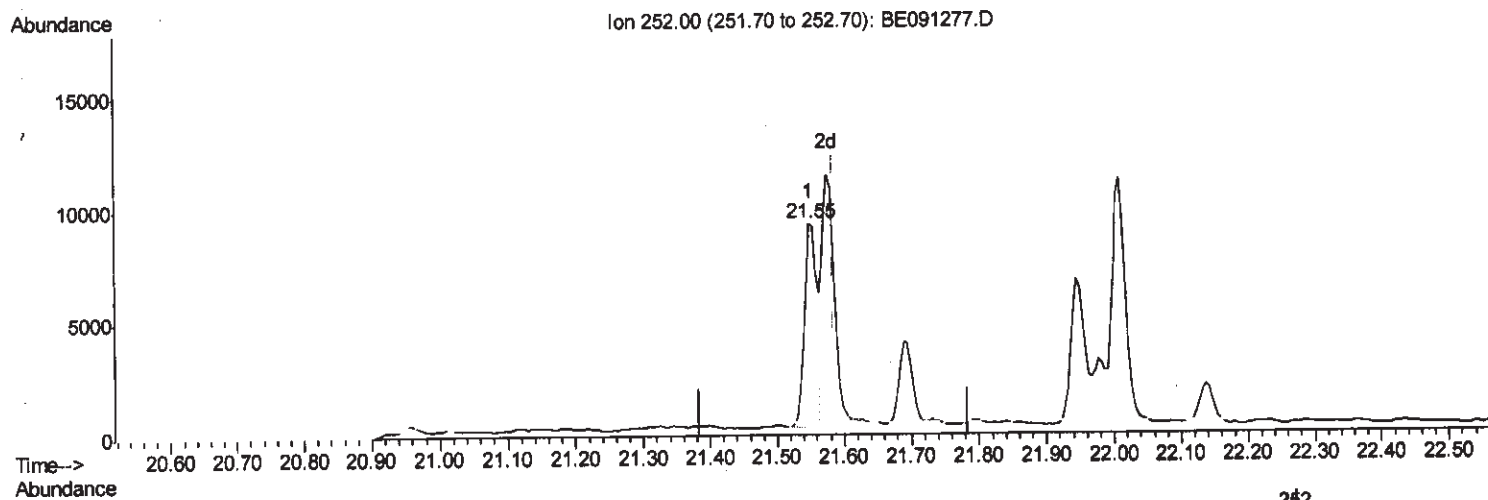
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112215\  
Data File : BE091277.D  
Acq On : 21 Nov 2015 14:51  
Operator : UM/NP  
Sample : G4346-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
A4J72

Quant Time: Nov 22 01:51:52 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:30:49 2015  
Response via : Initial Calibration

Manual Integrations  
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(24) Benzo(k)fluoranthene

21.549min (-0.036) 0.21ng/ui

response 11639

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 26.00 | 25.05  |
| 125.00 | 15.30 | 20.36# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112215\  
 Data File : BE091277.D  
 Acq On : 21 Nov 2015 14:51  
 Operator : UM/NP  
 Sample : G4346-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4J72

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Manual Integrations  
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| Internal Standards          | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.87  | 152  | 3150     | 0.40 | ng/ul  | -0.02    |
| 4) Naphthalene-d8           | 9.54  | 136  | 15143    | 0.40 | ng/ul  | -0.02    |
| 8) Acenaphthene-d10         | 13.36 | 164  | 8161     | 0.40 | ng/ul  | -0.01    |
| 12) Phenanthrene-d10        | 16.08 | 188  | 19053m   | 0.40 | ng/ul  | -0.01    |
| 18) Chrysene-d12            | 20.23 | 240  | 22040    | 0.40 | ng/ul  | 0.00     |
| 22) Perylene-d12            | 22.10 | 264  | 17669m   | 0.40 | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |      |        |          |
| 2) 1,4-Dioxane-d8           | 2.93  | 96   | 16172    | 7.14 | ng/uL  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.05 | 152  | 4160     | 0.20 | ng/ul  | -0.01    |
| 16) Fluoranthene-d10        | 18.06 | 212  | 12108    | 0.23 | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |      |        |          |
| 13) Pentachlorophenol       | 15.85 | 266  | 318      | 0.18 | ng/ul  | 98       |
| 14) Phenanthrene            | 16.11 | 178  | 39623    | 0.18 | ng/ul  | 99       |
| 17) Fluoranthene            | 18.09 | 202  | 113840m  | 0.44 | ng/ul  |          |
| 19) Pyrene                  | 18.47 | 202  | 125000   | 0.50 | ng/ul# | 76       |
| 20) Benzo(a)anthracene      | 20.19 | 228  | 23946    | 0.42 | ng/ul# | 94       |
| 21) Chrysene                | 20.26 | 228  | 22083    | 0.34 | ng/ul# | 95       |
| 23) Benzo(b)fluoranthene    | 21.55 | 252  | 11639    | 0.21 | ng/ul  | 97       |
| 24) Benzo(k)fluoranthene    | 21.58 | 252  | 15253m   | 0.27 | ng/ul  |          |
| 25) Benzo(a)pyrene          | 22.01 | 252  | 15225    | 0.30 | ng/ul  | 97       |
| 26) Indeno(1,2,3-cd)pyrene  | 23.70 | 276  | 22668    | 0.11 | ng/ul  | 98       |
| 28) Benzo(g,h,i)perylene    | 24.26 | 276  | 25731m   | 0.11 | ng/ul  |          |

Ovalue

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