

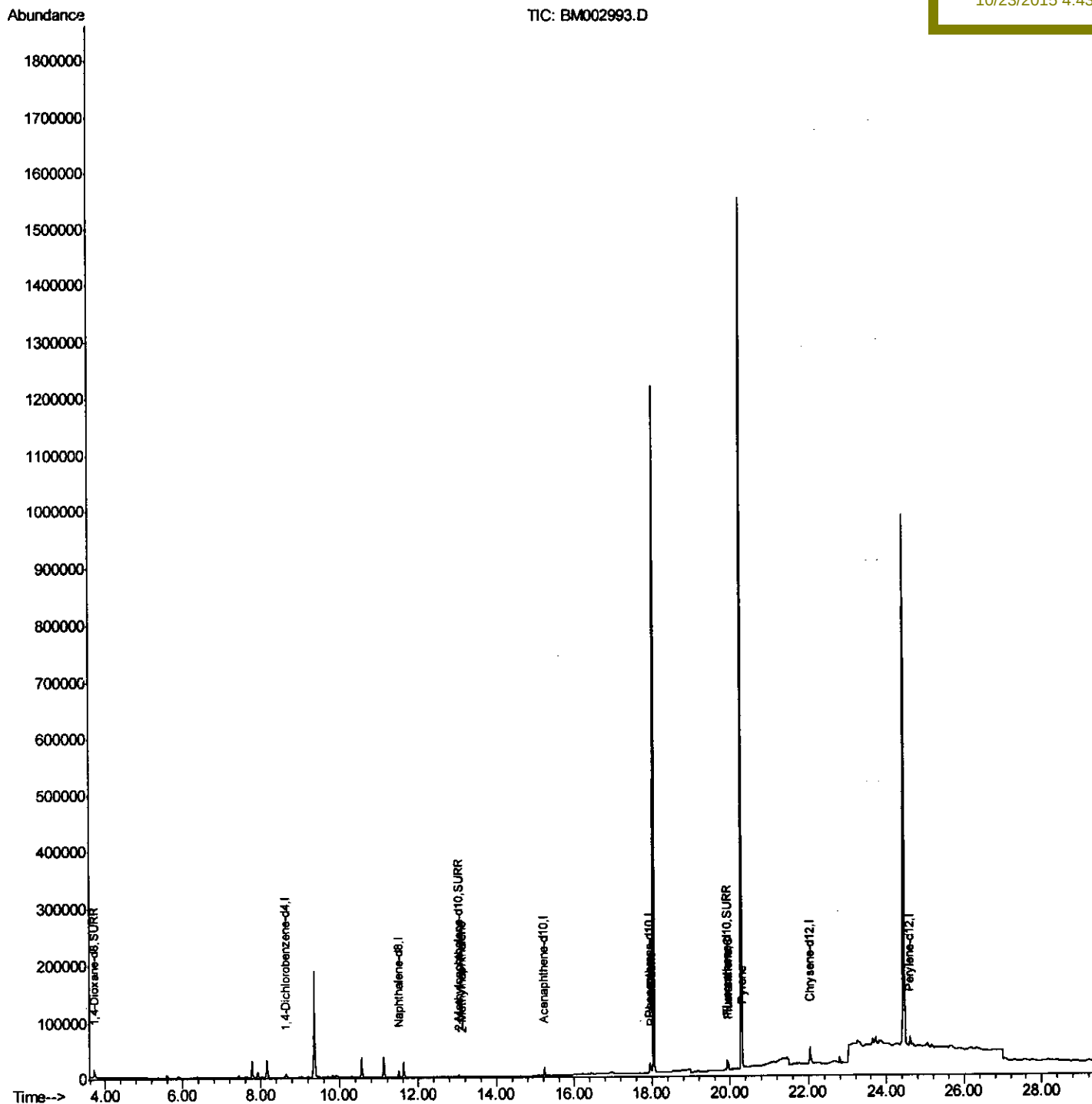
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
Data File : BM002993.D  
Acq On : 23 Oct 2015 00:52  
Operator : UM/IZ  
Sample : G4074-07  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JG9K1

Quant Time: Oct 23 08:02:40 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 23 01:55:29 2015  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mmdadoda  
10/23/2015 4:43:49 PM



# Quantitation Report (Qedit)

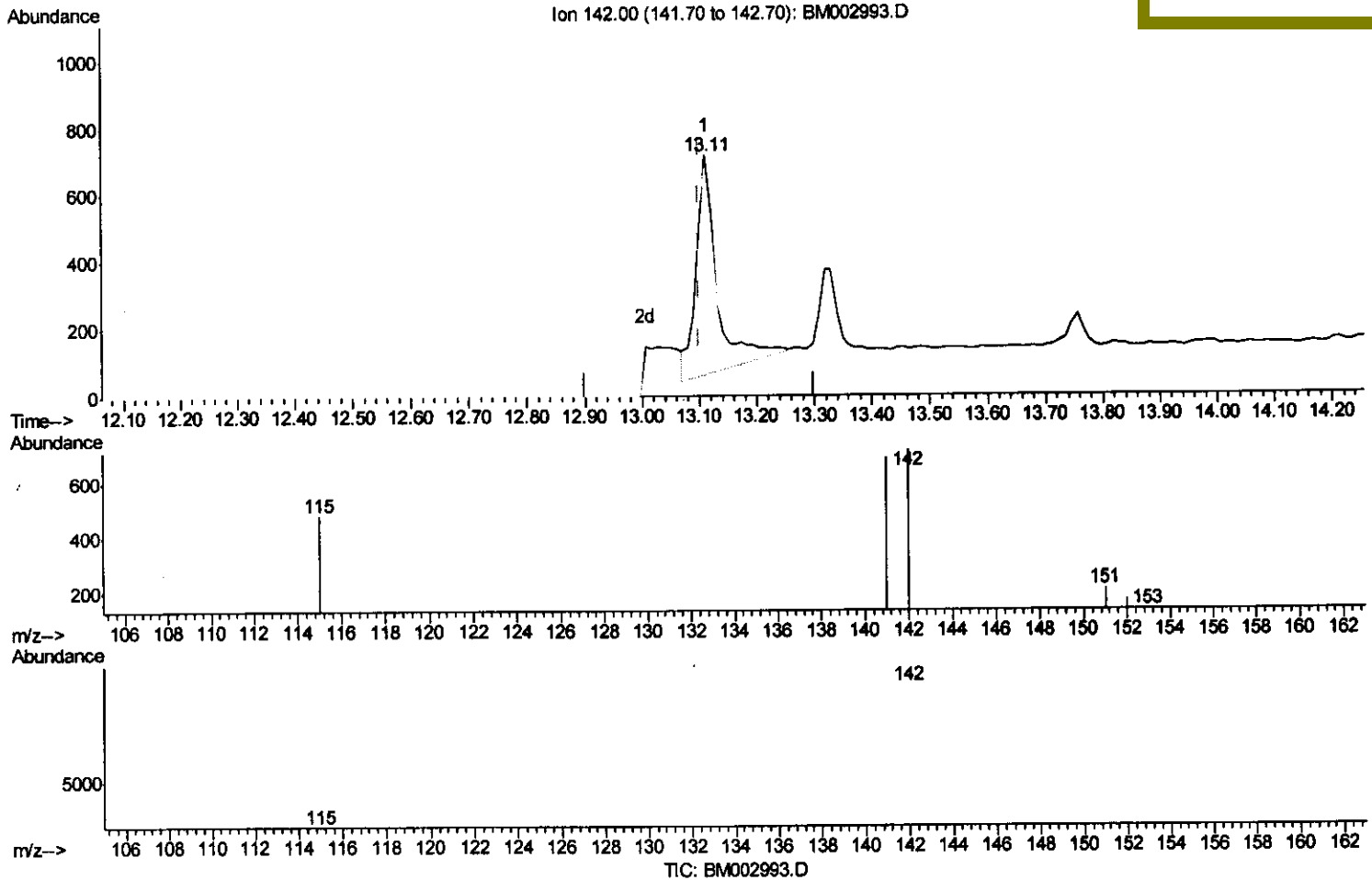
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Quant Time: Oct 23 03:54:05 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration

Manual Integrations  
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(7) 2-Methylnaphthalene

13.110min (+0.010) 0.05ng/ul

response 1641

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 142.00 | 100   | 100   |
| 141.00 | 87.90 | 96.40 |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

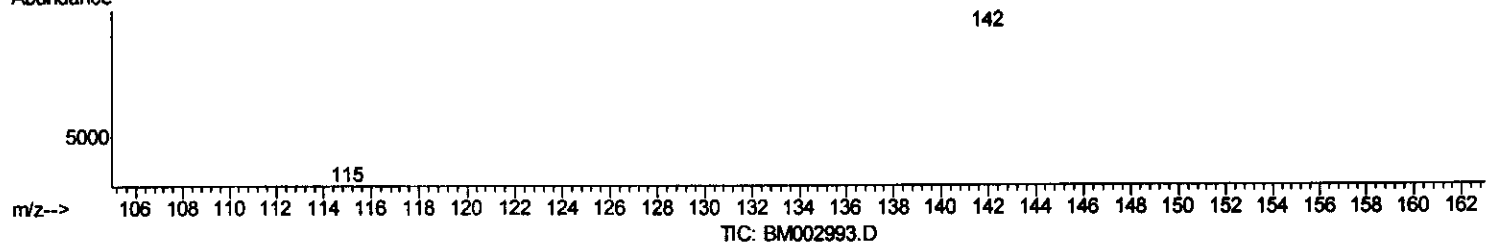
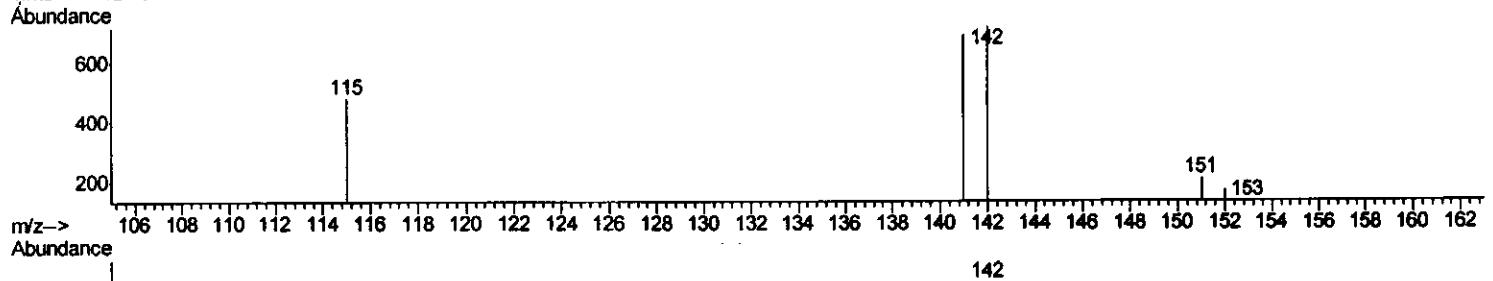
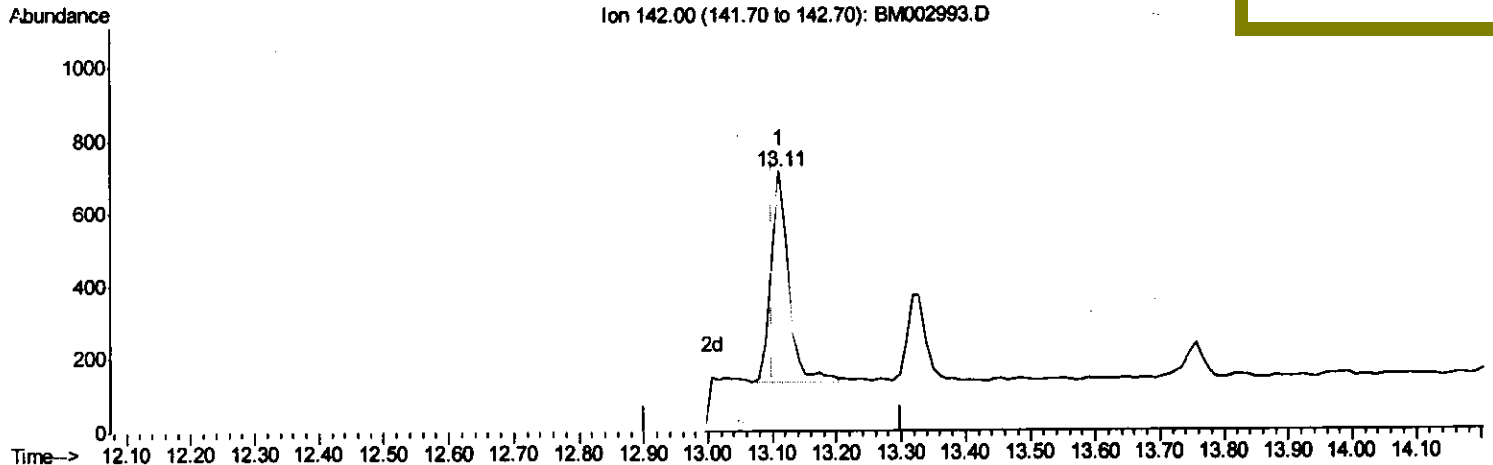
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Quant Time: Oct 23 03:54:05 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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(7) 2-Methylnaphthalene

13.110min (+0.010) 0.03ng/ul m U.M  
 10/27/15

response 1118

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 142.00 | 100   | 100     |
| 141.00 | 87.90 | 141.50# |
| 0.00   | 0.00  | 0.00    |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

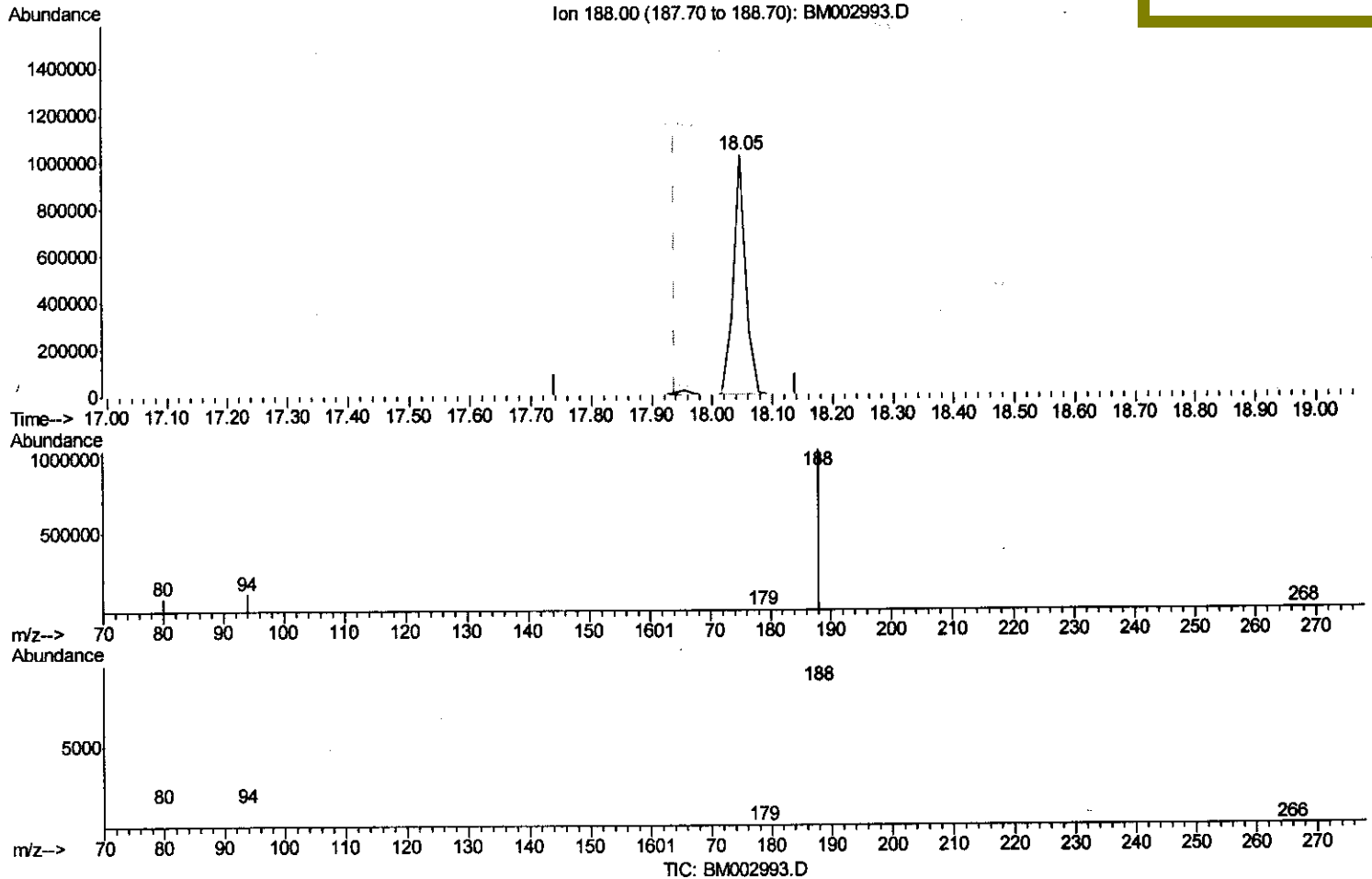
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Quant Time: Oct 23 03:54:05 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

mmdadoda  
 10/23/2015 4:43:49 PM



(12) Phenanthrene-d10 (I)

18.047min (+0.108) 0.40ng/ul

response 1501411

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 188.00 | 100  | 100    |
| 94.00  | 9.00 | 10.80# |
| 80.00  | 8.90 | 8.22   |
| 0.00   | 0.00 | 0.00   |

# Quantitation Report (Qedit)

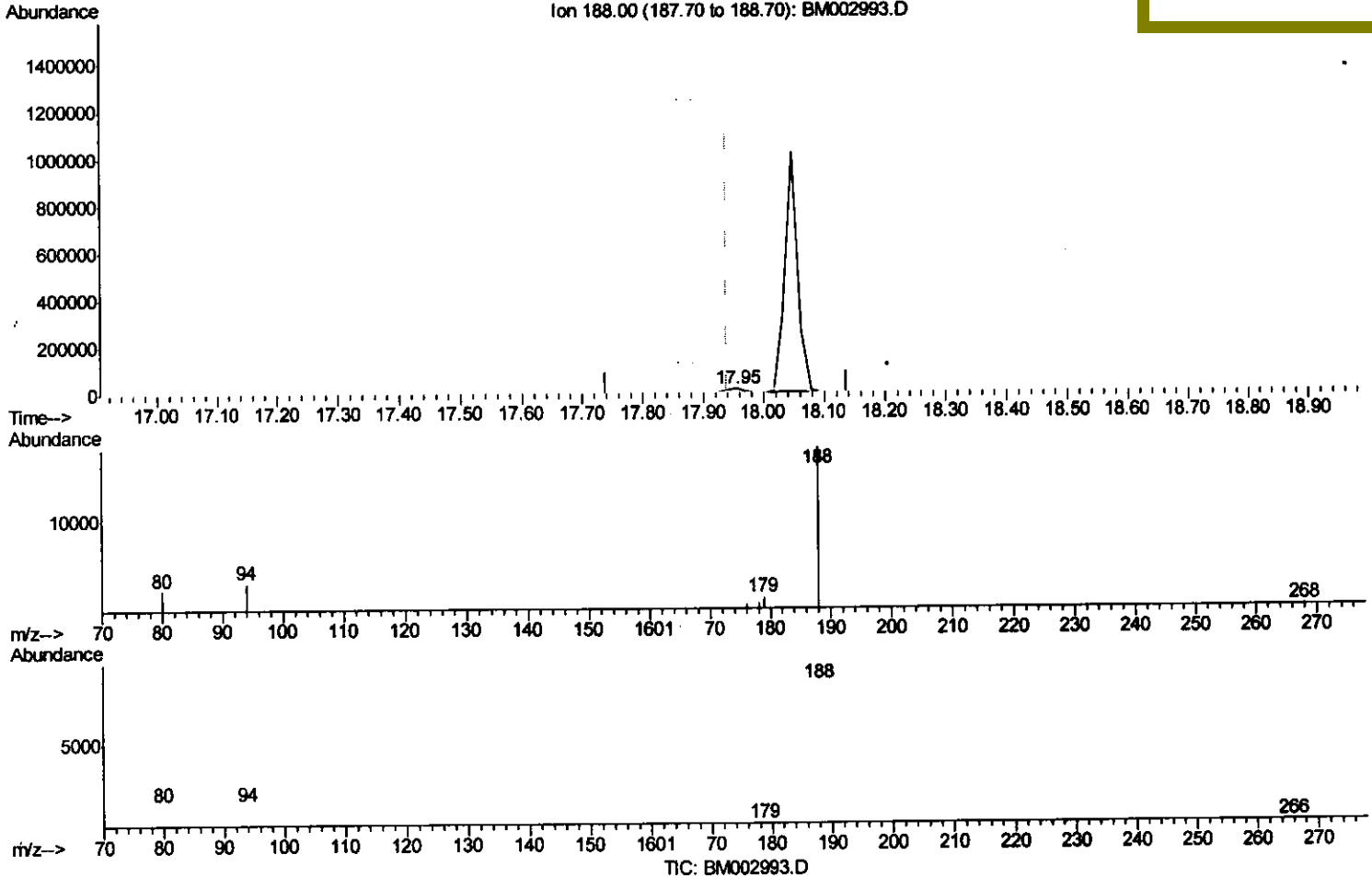
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Manual Integrations  
 APPROVED

mmdadoda  
 10/23/2015 4:43:49 PM

Quant Time: Oct 23 03:54:05 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration



(12) Phenanthrene-d10 (I)

17.954min (+0.015) 0.40ng/ul m *U.M*  
*10/27/15*

response 28008

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 188.00 | 100  | 100    |
| 94.00  | 9.00 | 17.37# |
| 80.00  | 8.90 | 13.02# |
| 0.00   | 0.00 | 0.00   |

# Quantitation Report (Qedit)

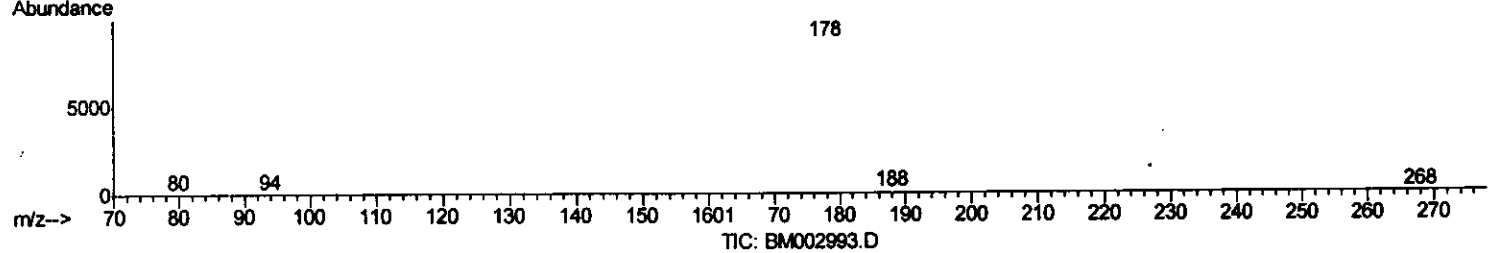
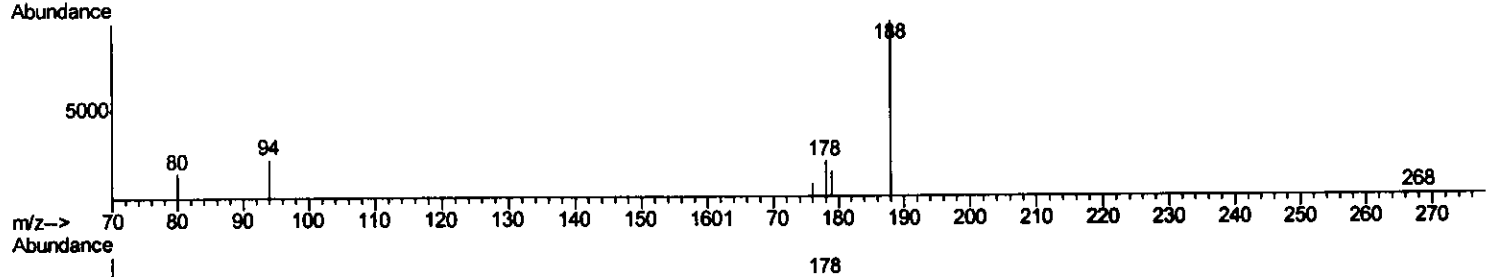
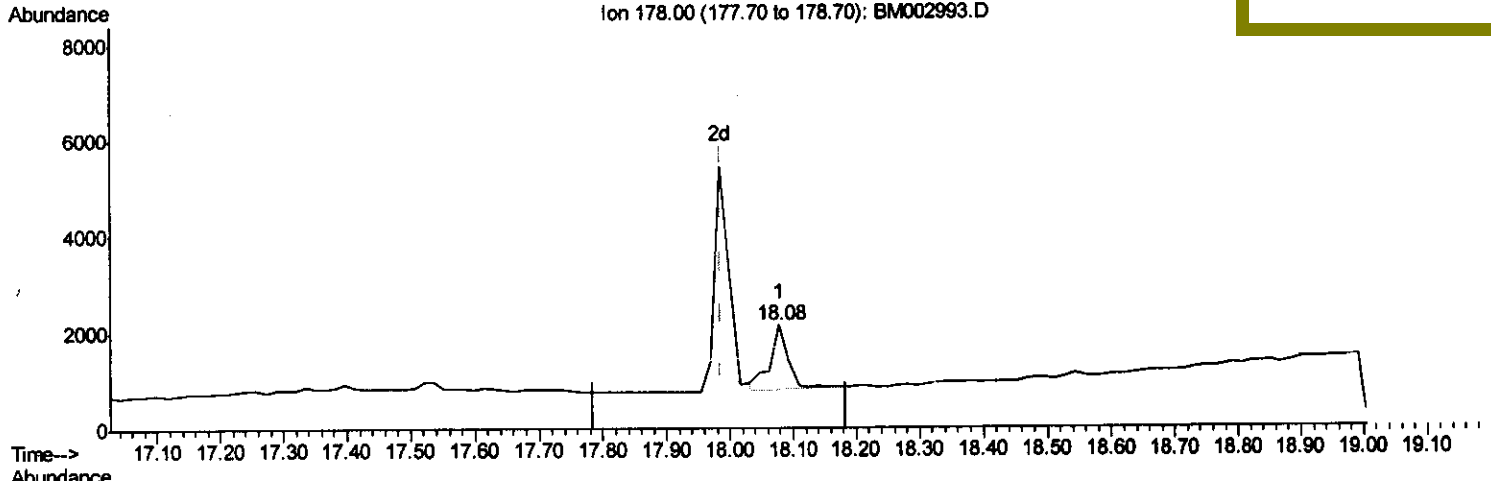
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Manual Integrations  
 APPROVED

mmdadoda  
 10/23/2015 4:43:49 PM

Quant Time: Oct 23 06:10:38 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration



(14) Phenanthrene

18.078min (+0.093) 0.03ng/ul

response 2662

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 176.00 | 20.30 | 42.02# |
| 179.00 | 16.00 | 73.69# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

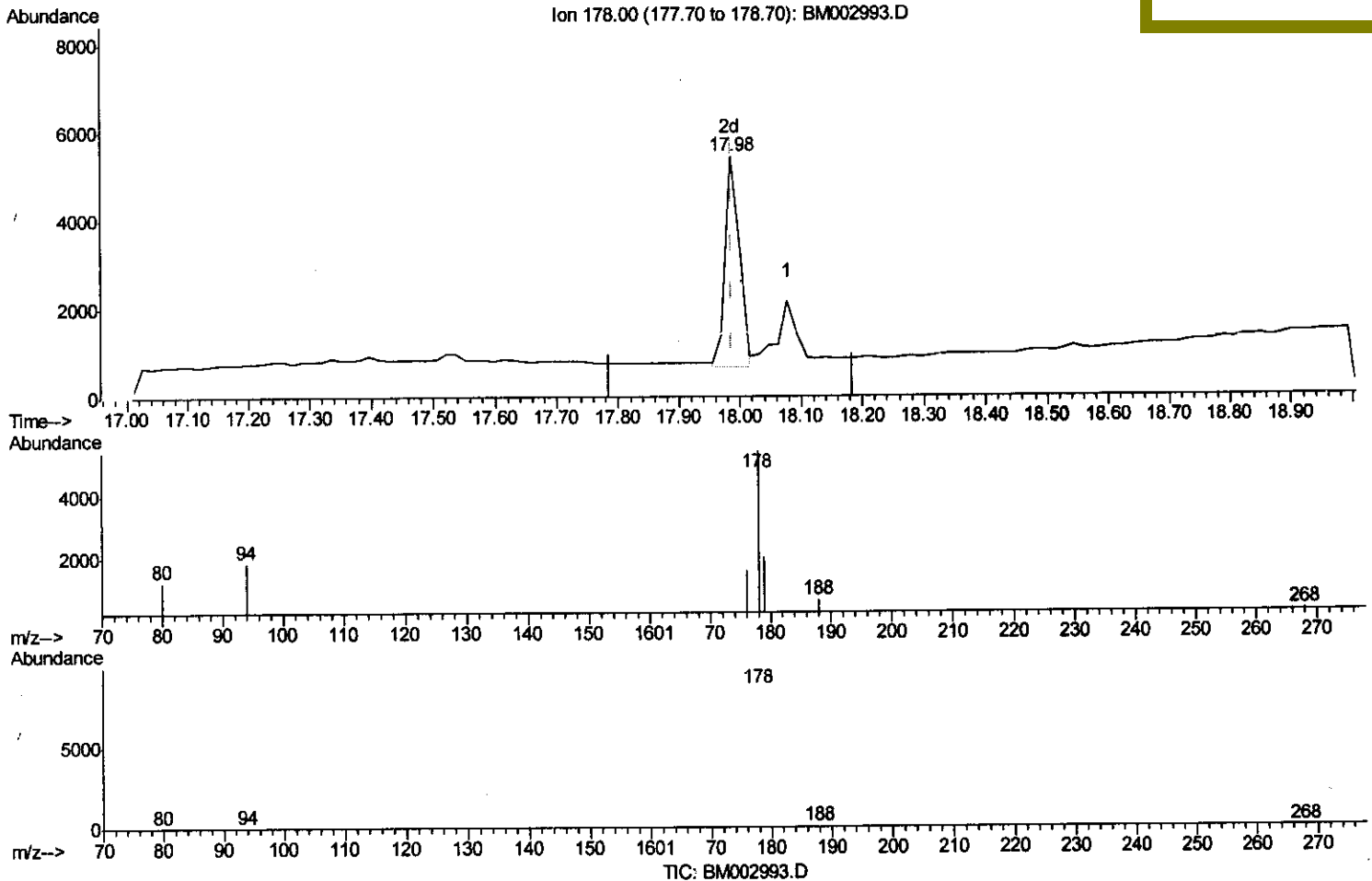
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Quant Time: Oct 23 06:10:38 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

mmdadoda  
 10/23/2015 4:43:49 PM



(14) Phenanthrene

17.985min (-0.000) 0.09ng/ul m

response 7603

Ion Exp% Act%

|        |       |        |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 176.00 | 20.30 | 28.55# |
| 179.00 | 16.00 | 36.21# |
| 0.00   | 0.00  | 0.00   |

V.M  
 10/27/15

# Quantitation Report (Qedit)

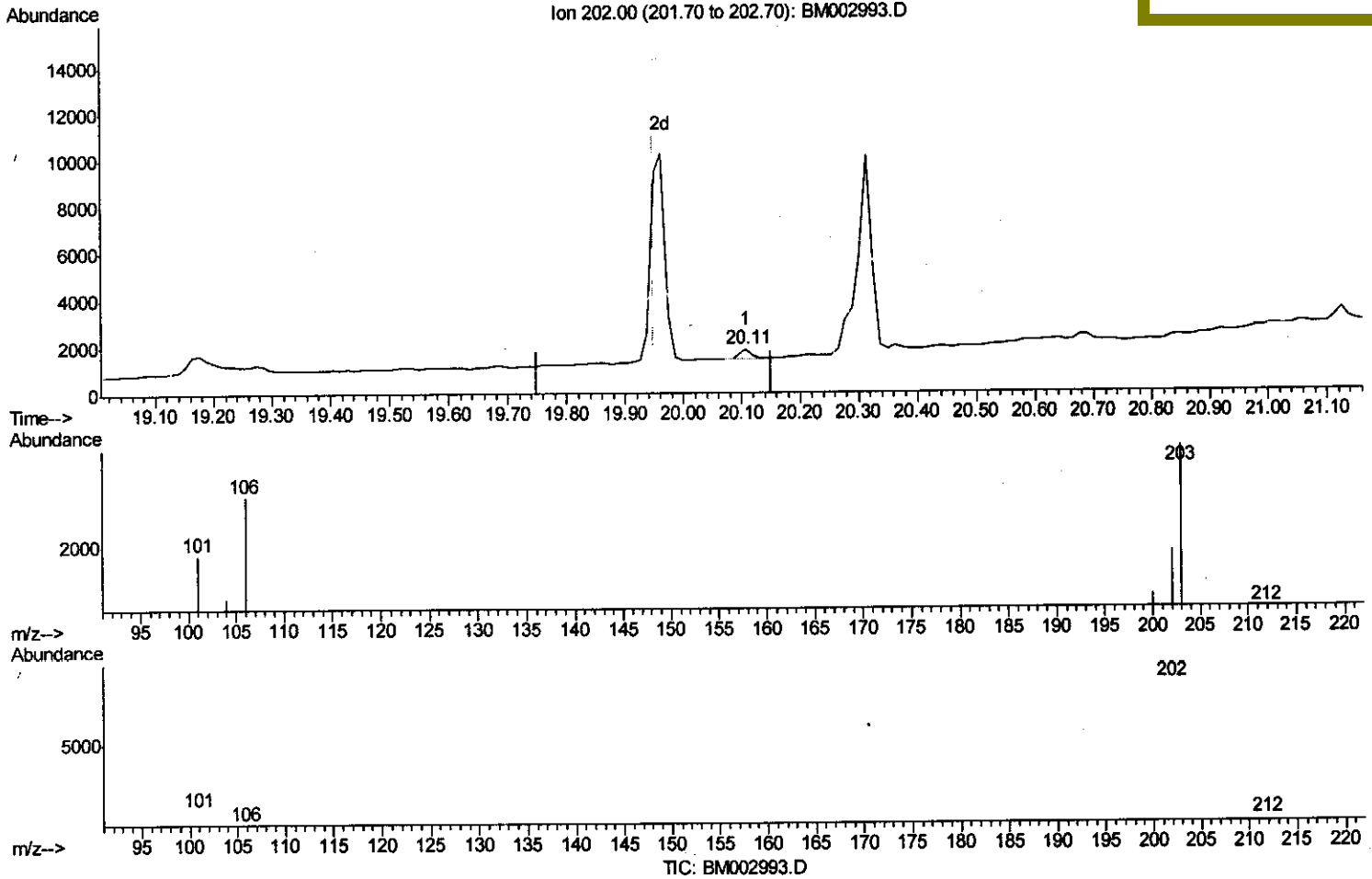
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Quant Time: Oct 23 06:10:38 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

mmdadoda  
 10/23/2015 4:43:49 PM



(17) Fluoranthene (C)

20.107min (+0.157) 0.01ng/ul

response 806

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 202.00 | 100   | 100     |
| 101.00 | 13.10 | 97.69#  |
| 203.00 | 17.20 | 213.92# |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

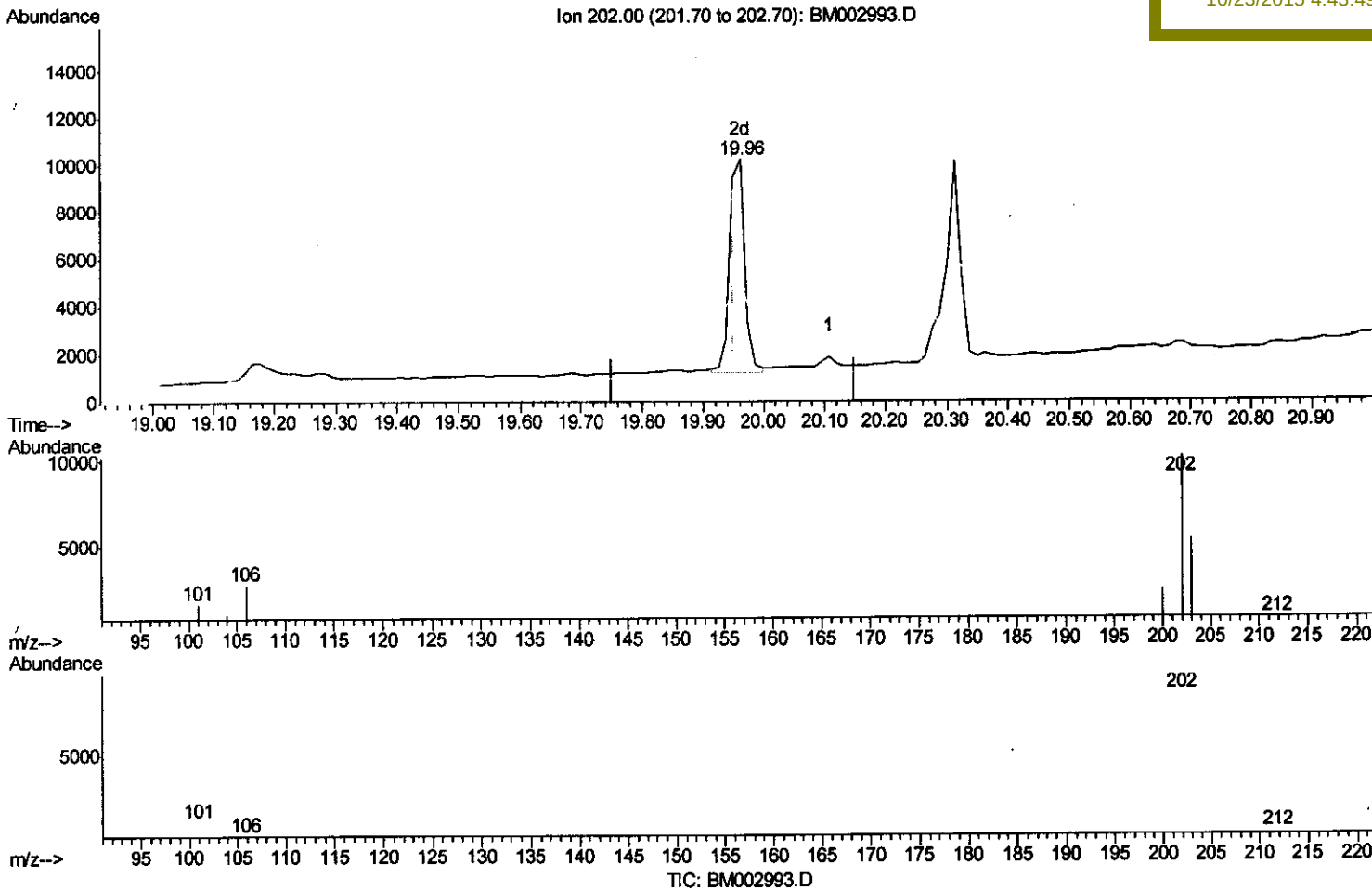
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA M  
 ClientSampleId :  
 JG9K1

Quant Time: Oct 23 06:10:38 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

mmdadoda  
 10/23/2015 4:43:49 PM



(17) Fluoranthene (C)

19.962min (+0.012) 0.15ng/ul m *U.M*

response 15536 *10/27/15*

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 13.10 | 16.11  |
| 203.00 | 17.20 | 51.86# |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (Qedit)

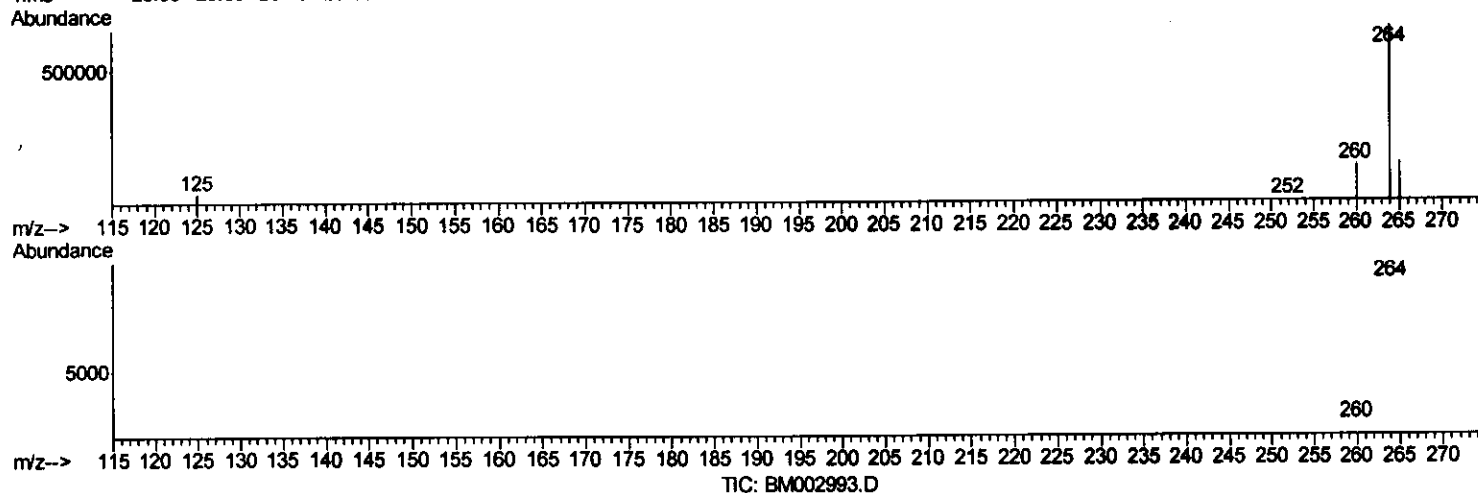
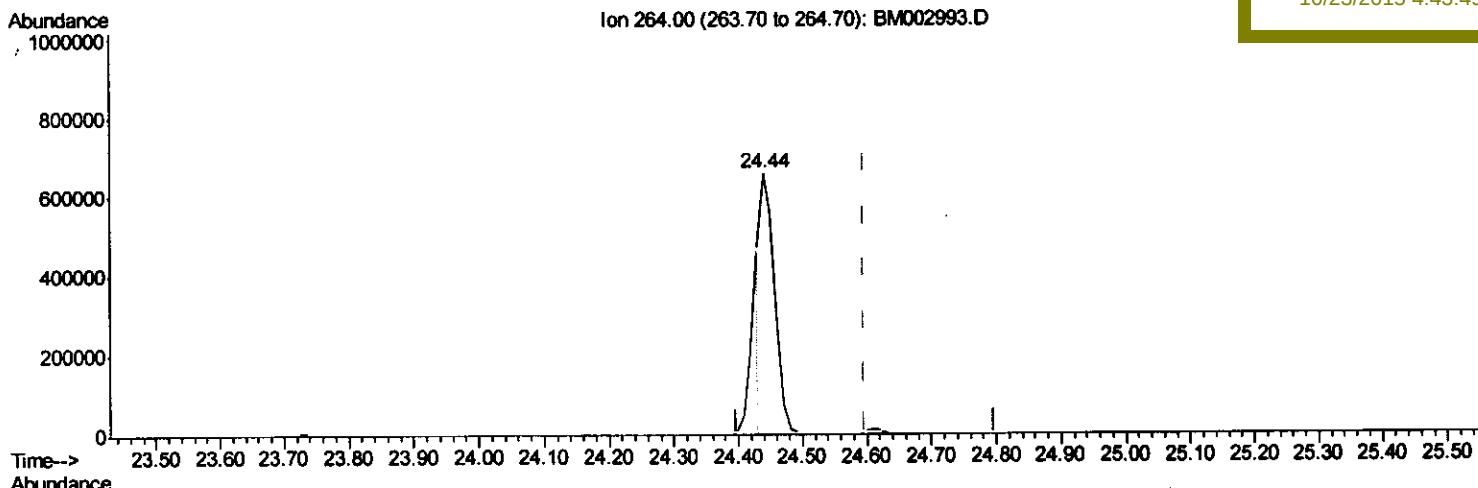
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
Data File : BM002993.D  
Acq On : 23 Oct 2015 00:52  
Operator : UM/IZ  
Sample : G4074-07  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JG9K1

Quant Time: Oct 23 06:10:38 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 23 01:55:29 2015  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mmdadoda  
10/23/2015 4:43:49 PM



(22) Perylene-d12 (I)

24.440min (-0.156) 0.40ng/ul

response 977986

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 264.00 | 100   | 100    |
| 260.00 | 28.90 | 21.00# |
| 265.00 | 34.70 | 22.20# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

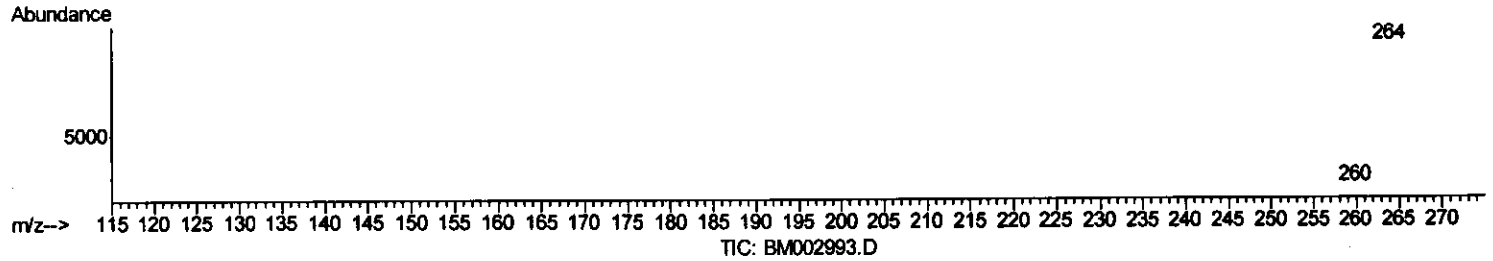
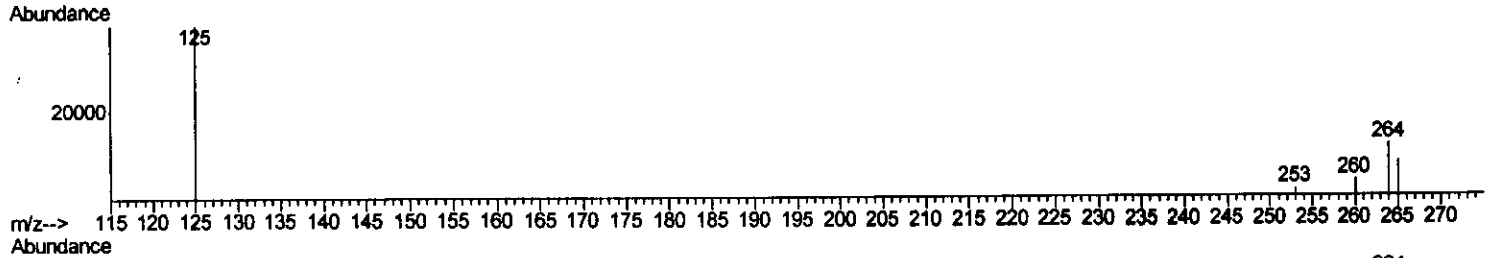
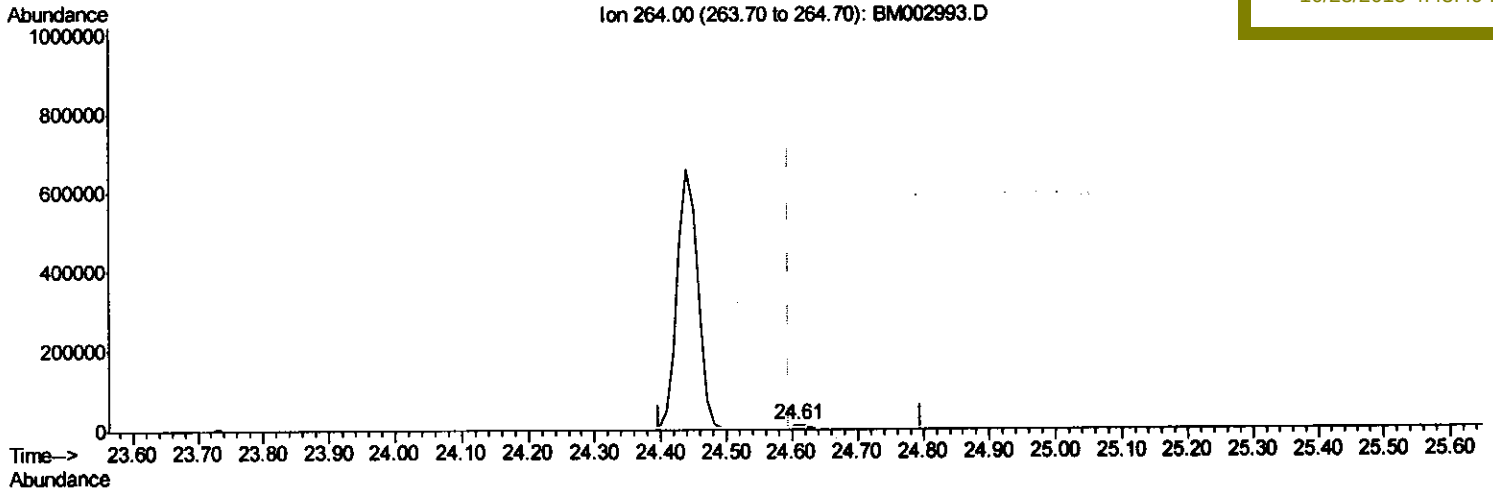
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Manual Integrations  
 APPROVED

mmdadoda  
 10/23/2015 4:43:49 PM

Quant Time: Oct 23 06:10:38 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 01:55:29 2015  
 Response via : Initial Calibration



(22) Perylene-d12 (I)

24.607min (+0.010) 0.40ng/ul m

response 24725

| ion    | Exp%  | Act%   |
|--------|-------|--------|
| 264.00 | 100   | 100    |
| 260.00 | 28.90 | 42.58# |
| 265.00 | 34.70 | 71.84# |
| 0.00   | 0.00  | 0.00   |

U.M  
 10/27/15

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102315\  
 Data File : BM002993.D  
 Acq On : 23 Oct 2015 00:52  
 Operator : UM/IZ  
 Sample : G4074-07  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9K1

Quant Time: Oct 23 08:02:40 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 10/23/2015 4:43:49 PM

| Internal Standards          | R.T.  | QIon | Response | Conc | Units  | Dev(Min)                    |
|-----------------------------|-------|------|----------|------|--------|-----------------------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.64  | 152  | 3780     | 0.40 | ng/ul  | 0.00                        |
| 4) Naphthalene-d8           | 11.49 | 136  | 17653    | 0.40 | ng/ul  | 0.00                        |
| 8) Acenaphthene-d10         | 15.23 | 164  | 11319    | 0.40 | ng/ul  | 0.00                        |
| 12) Phenanthrene-d10        | 17.95 | 188  | 28008m   | 0.40 | ng/ul  | 0.02                        |
| 18) Chrysene-d12            | 22.04 | 240  | 29743    | 0.40 | ng/ul  | 0.01                        |
| 22) Perylene-d12            | 24.61 | 264  | 24725m   | 0.40 | ng/ul  | 0.01                        |
| System Monitoring Compounds |       |      |          |      |        |                             |
| 2) 1,4-Dioxane-d8           | 3.71  | 96   | 13415    | 3.32 | ng/uL  | 0.00                        |
| 6) 2-Methylnaphthalene-d10  | 13.04 | 152  | 8058     | 0.27 | ng/ul  | 0.00                        |
| 16) Fluoranthene-d10        | 19.93 | 212  | 21253    | 0.28 | ng/ul  | 0.00                        |
| Target Compounds            |       |      |          |      |        |                             |
| 7) 2-Methylnaphthalene      | 13.11 | 142  | 1118m    | 0.03 | ng/ul  | Ovalue<br>{ U.M<br>10/27/15 |
| 14) Phenanthrene            | 17.98 | 178  | 7603m    | 0.09 | ng/ul  |                             |
| 17) Fluoranthene            | 19.96 | 202  | 15536m   | 0.15 | ng/ul  |                             |
| 19) Pyrene                  | 20.31 | 202  | 17246    | 0.16 | ng/ul# |                             |

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