

# Quantitation Report (QT Reviewed)

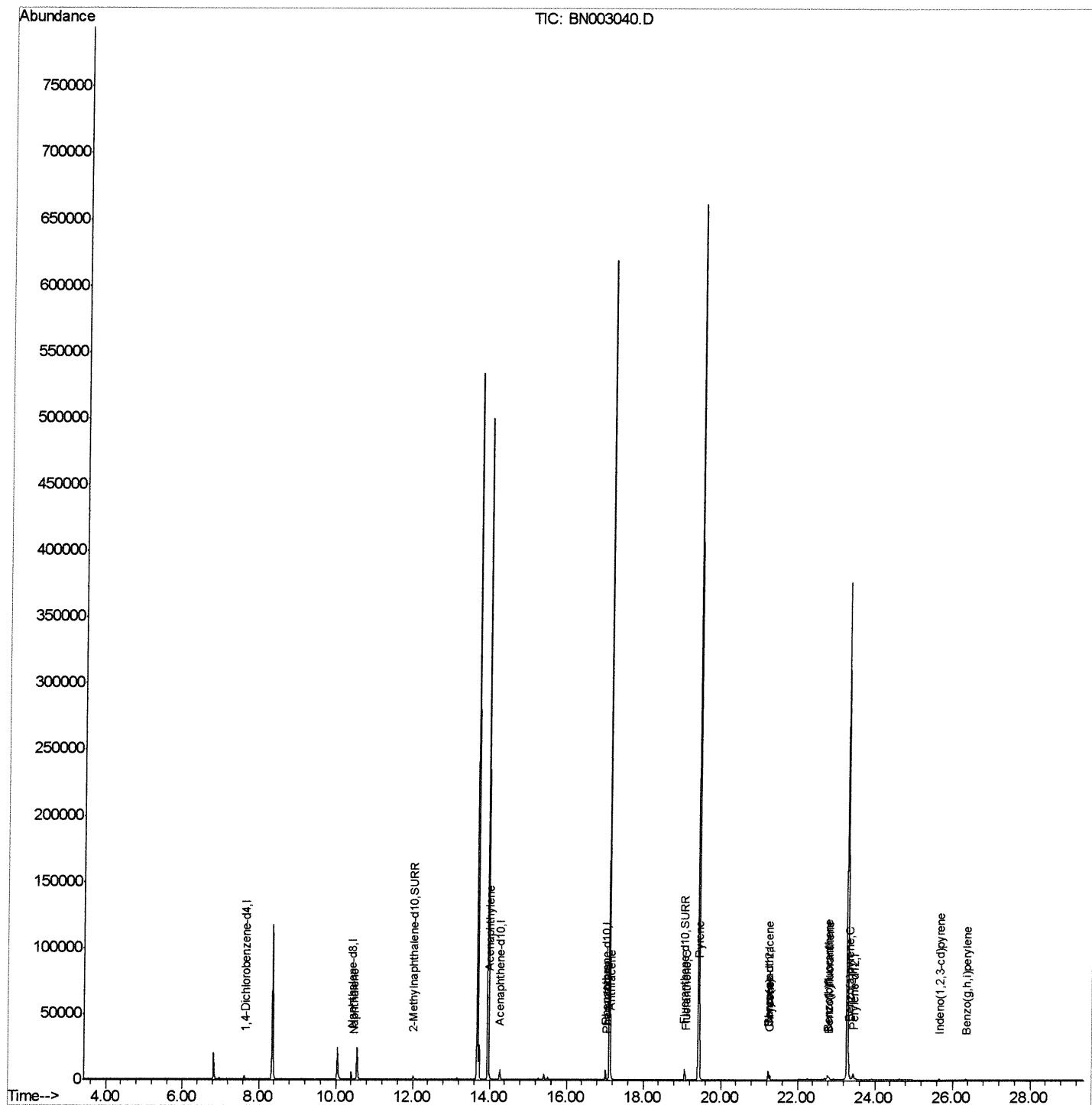
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:21:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



# Quantitation Report (Qedit)

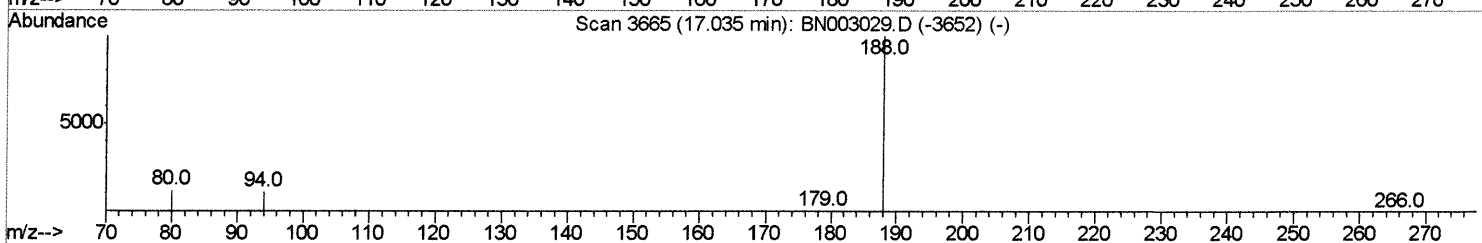
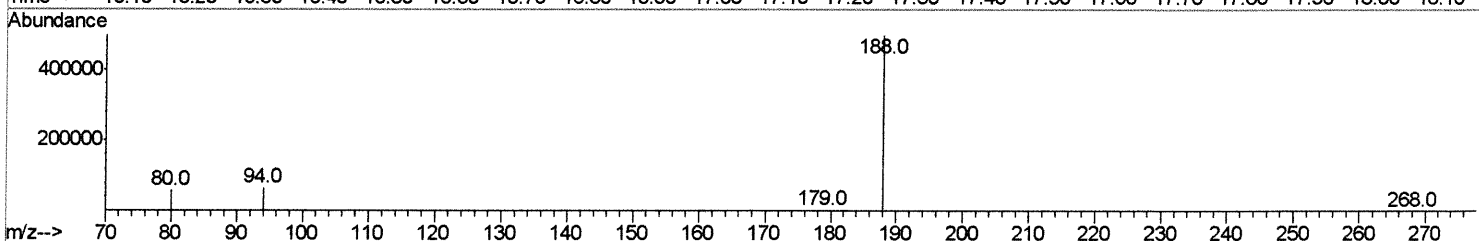
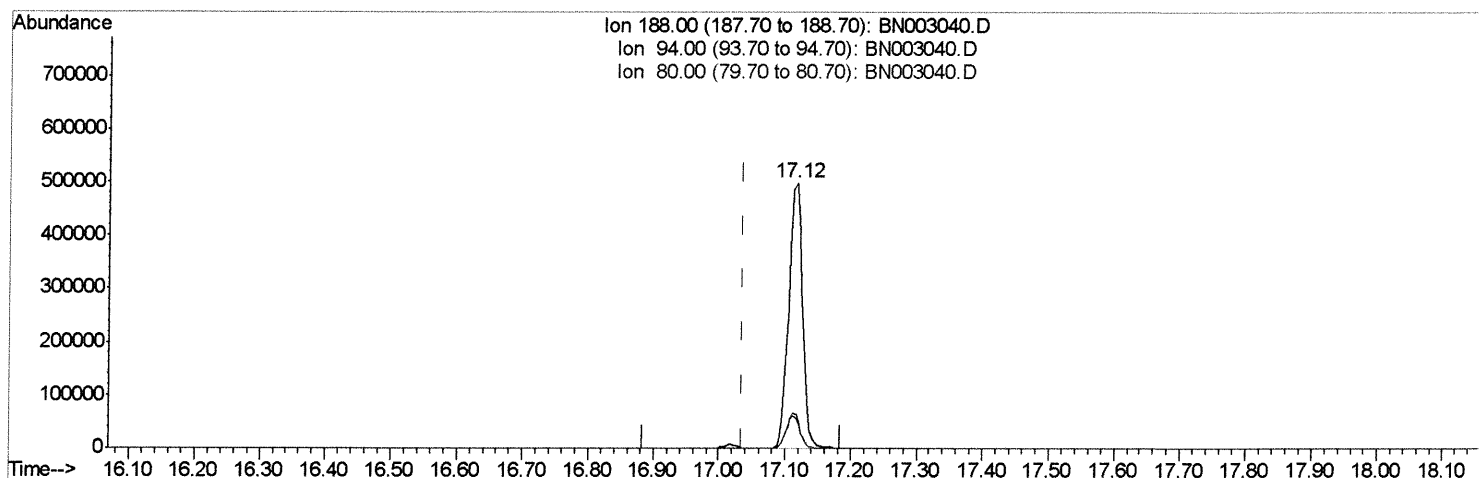
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
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 Operator : MJ/SJ  
 Sample : J5157-10  
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Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 01:38:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
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TIC: BN003040.D

(10) Phenanthrene-d10 (I)  
 17.116min (+0.080) 0.40ng/ul  
 response 723020

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.80 | 12.76 |
| 80.00  | 12.70 | 11.58 |
| 0.00   | 0.00  | 0.00  |

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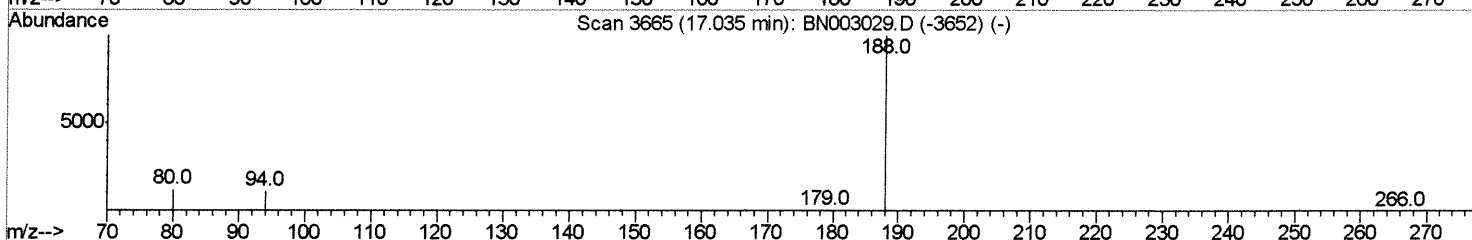
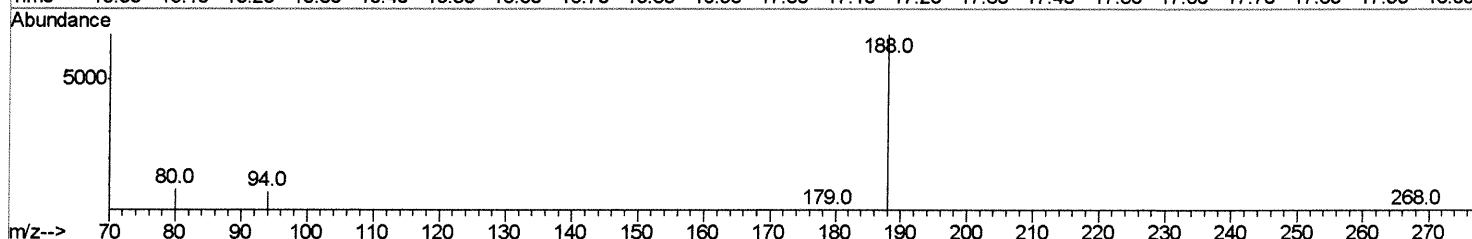
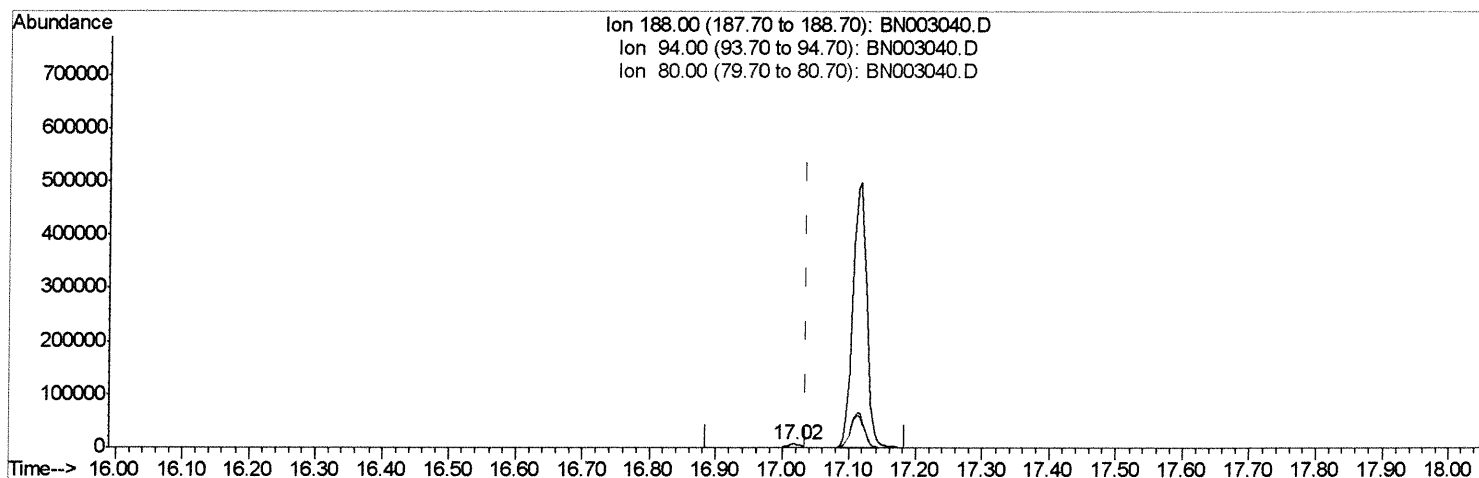
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TIC: BN003040.D

(10) Phenanthrene-d10 (I)

17.018min (-0.017) 0.40ng/ul m

51 10/12/18

response 9359

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.80 | 11.06 |
| 80.00  | 12.70 | 12.34 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

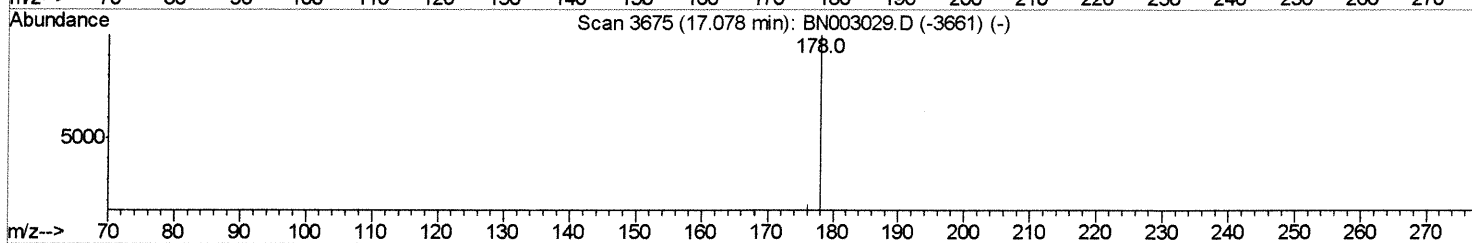
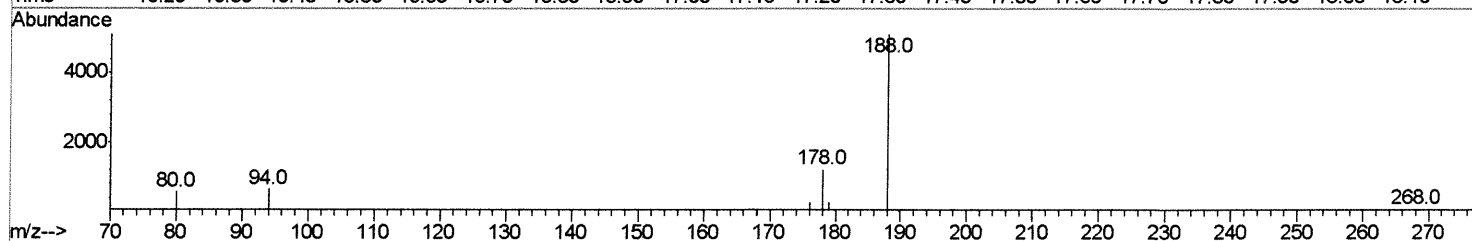
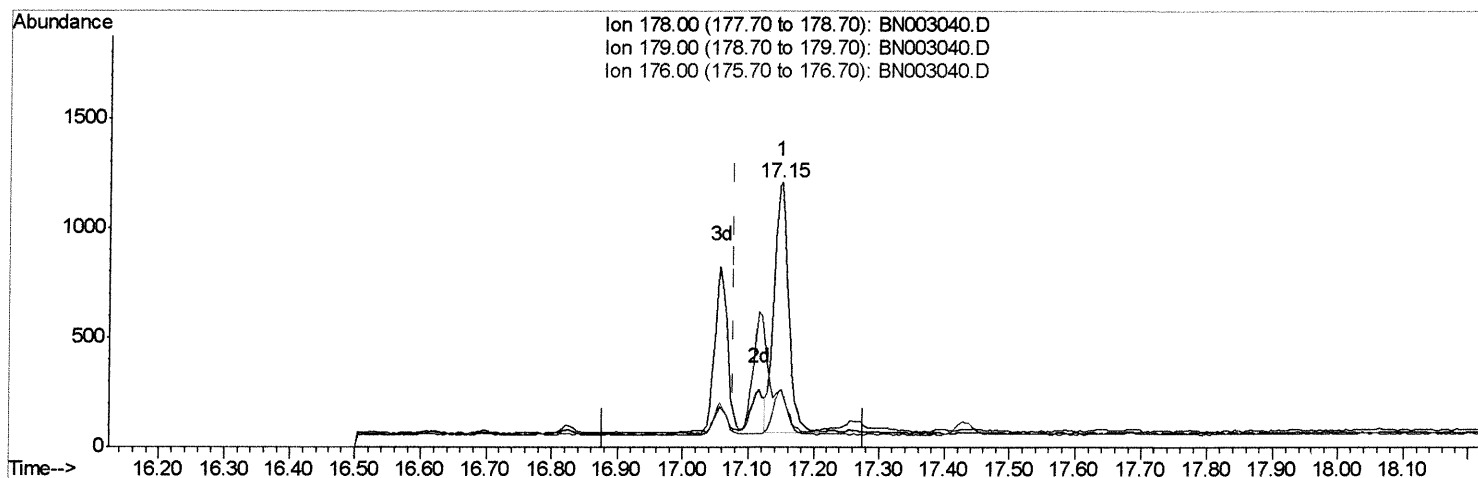
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TIC: BN003040.D

(12) Phenanthrene

17.149min (+0.072) 0.07ng/ul

response 1771

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 16.10 | 21.92# |
| 176.00 | 19.30 | 21.34  |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

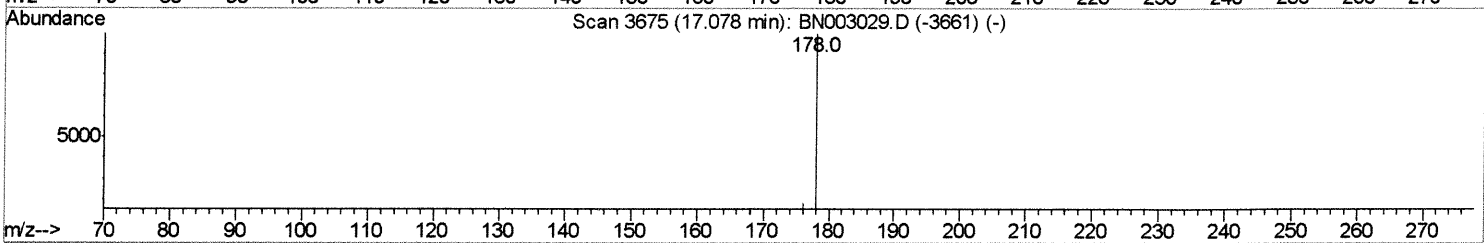
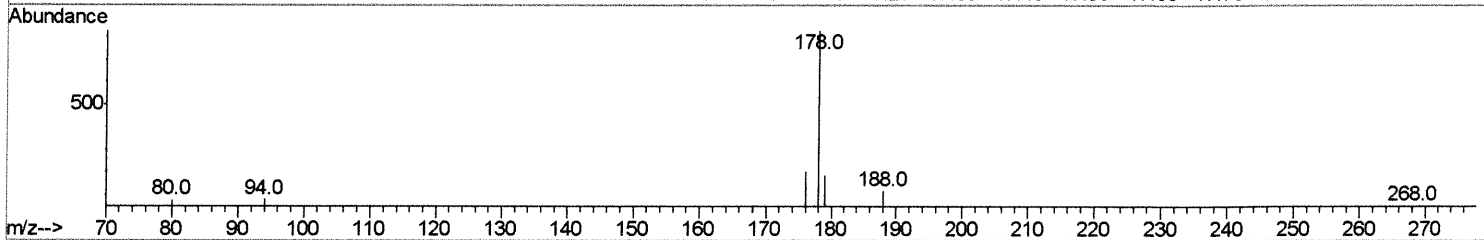
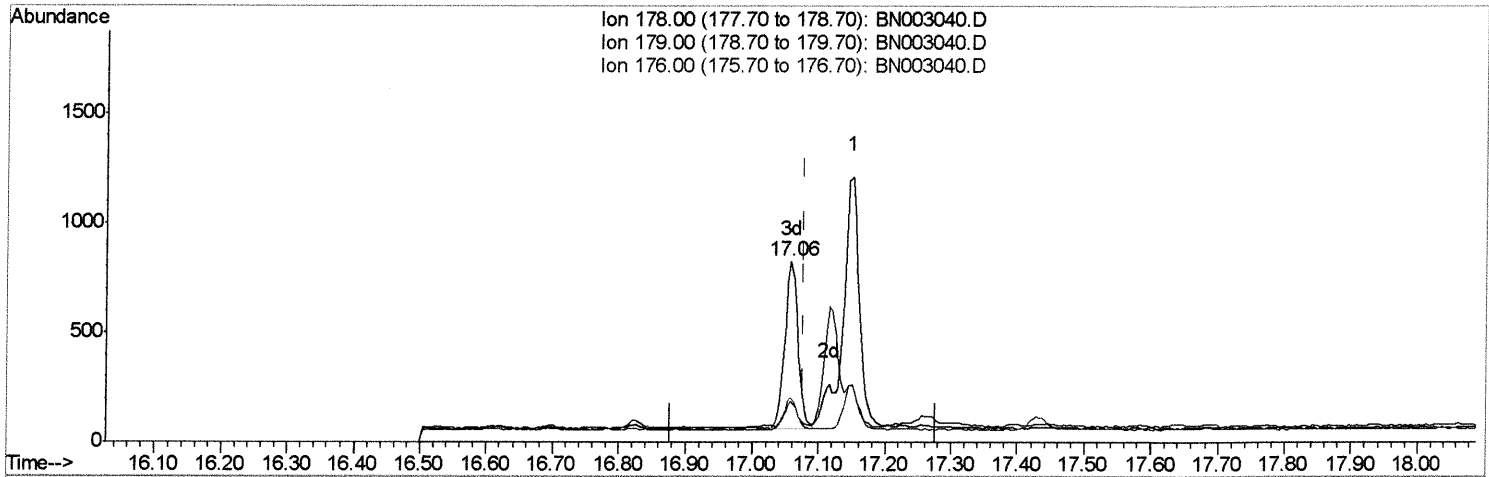
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(12) Phenanthrene

17.056min (-0.021) 0.04ng/ul m *SJ 10/12/18*

response 1072

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 16.10 | 22.76# |
| 176.00 | 19.30 | 24.58# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

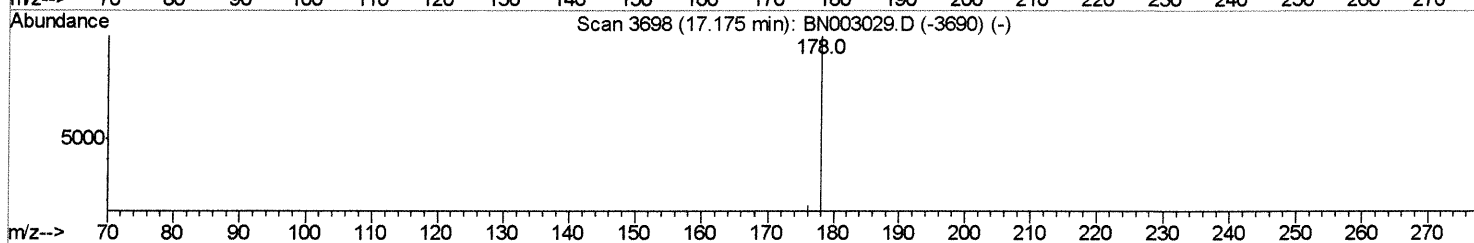
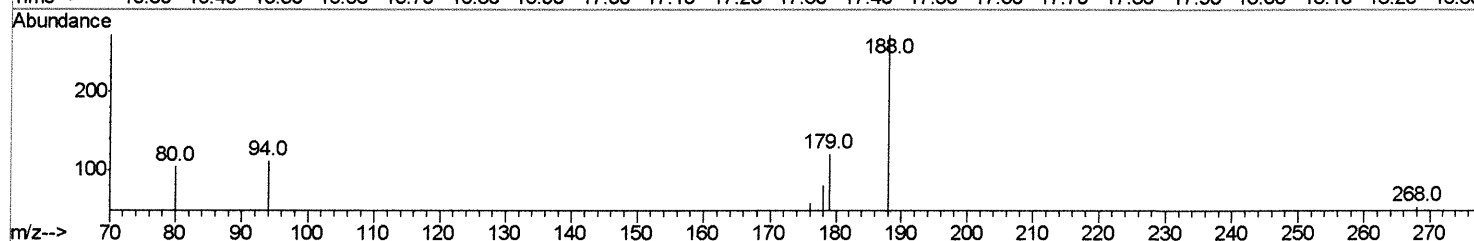
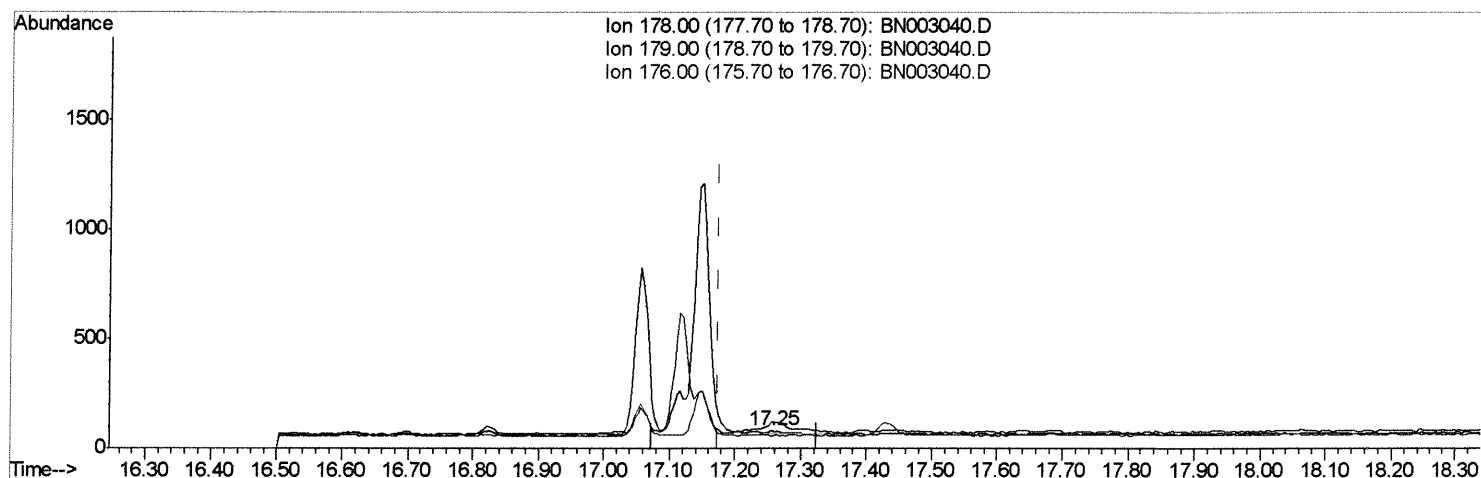
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Manual Integrations  
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(13) Anthracene

17.255min (+0.080) 0.00ng/ul

response 41

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 178.00 | 100   | 100     |
| 179.00 | 16.30 | 150.00# |
| 176.00 | 19.10 | 71.25#  |
| 0.00   | 0.00  | 0.00    |

## Quantitation Report (Qedit)

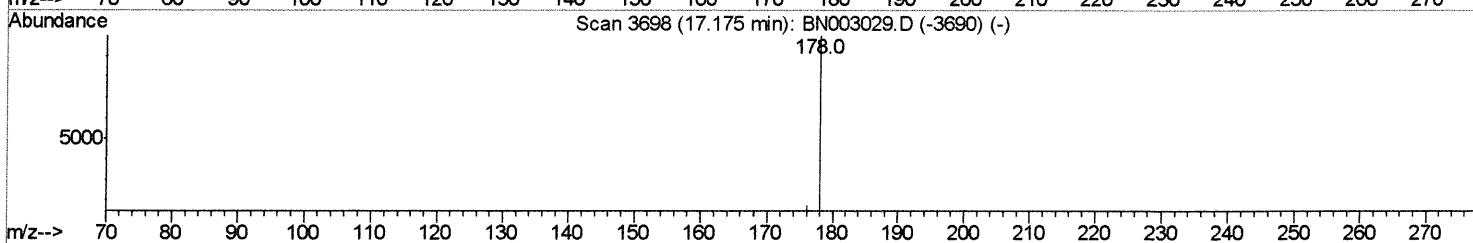
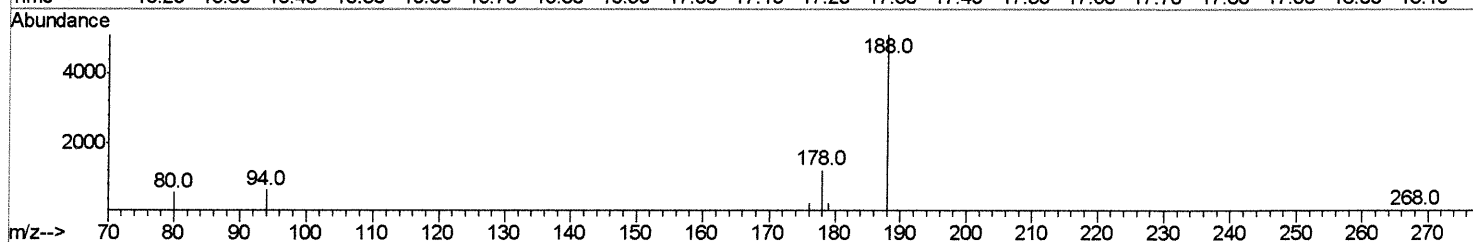
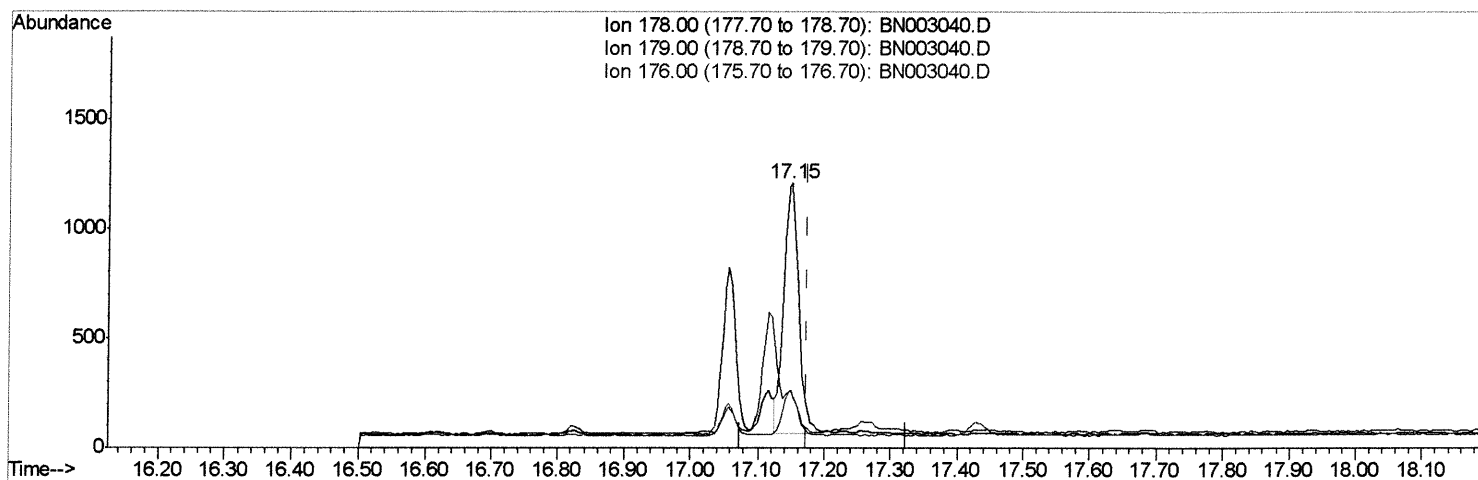
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(13) Anthracene

17.149min (-0.025) 0.07ng/ul m

SJ 10/12/18

response 1778

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 16.30 | 21.92# |
| 176.00 | 19.10 | 21.34  |
| 0.00   | 0.00  | 0.00   |

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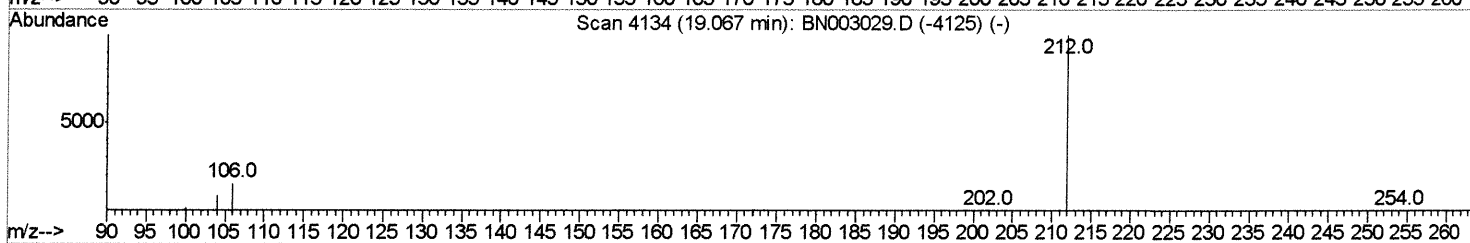
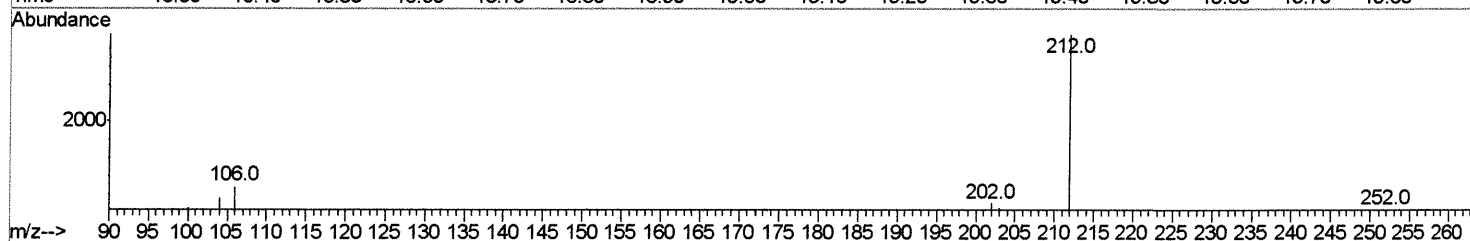
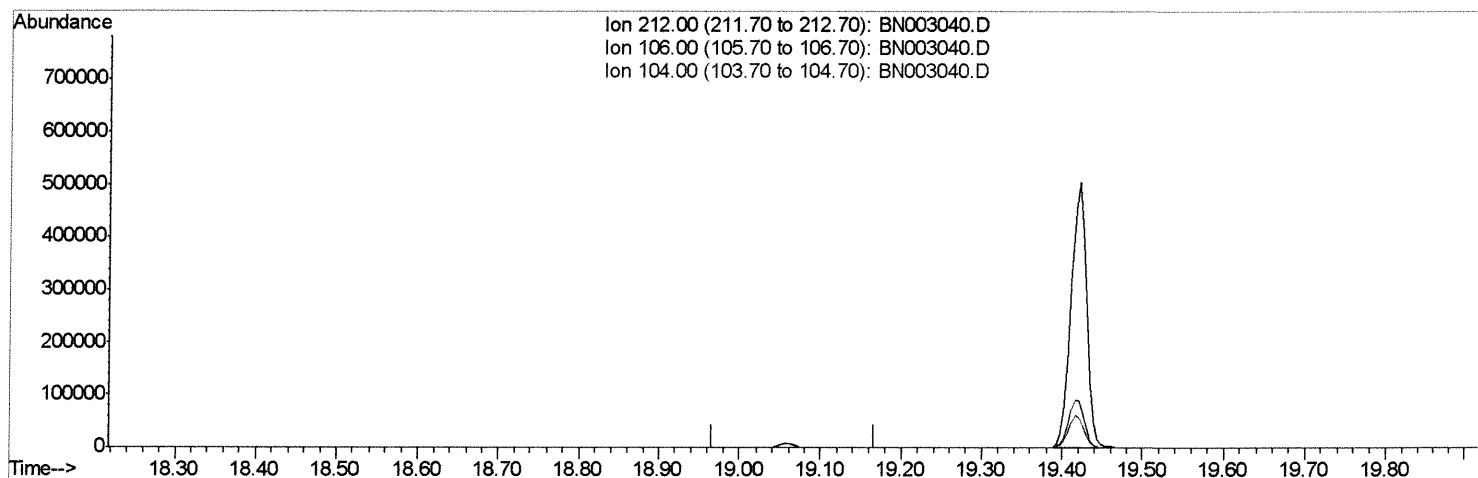
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(14) Fluoranthene-d10 (SURR)

19.067min (-19.067) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 212.00 | 100   | 0.00  |
| 106.00 | 15.40 | 0.00# |
| 104.00 | 8.60  | 0.00# |
| 0.00   | 0.00  | 0.00  |



## Quantitation Report (Qedit)

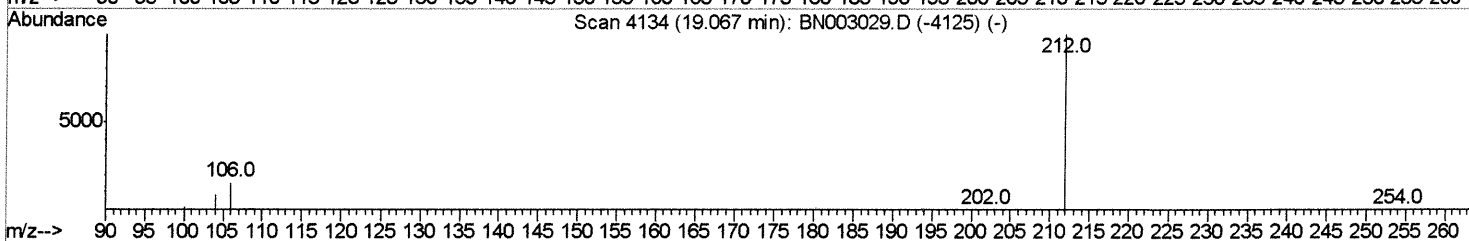
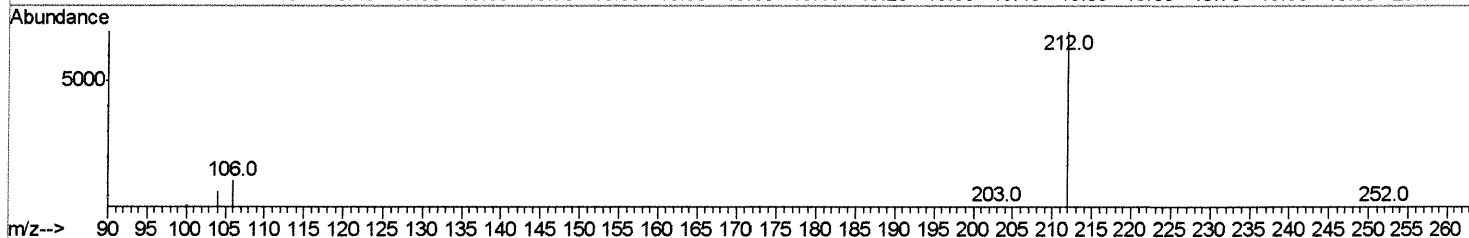
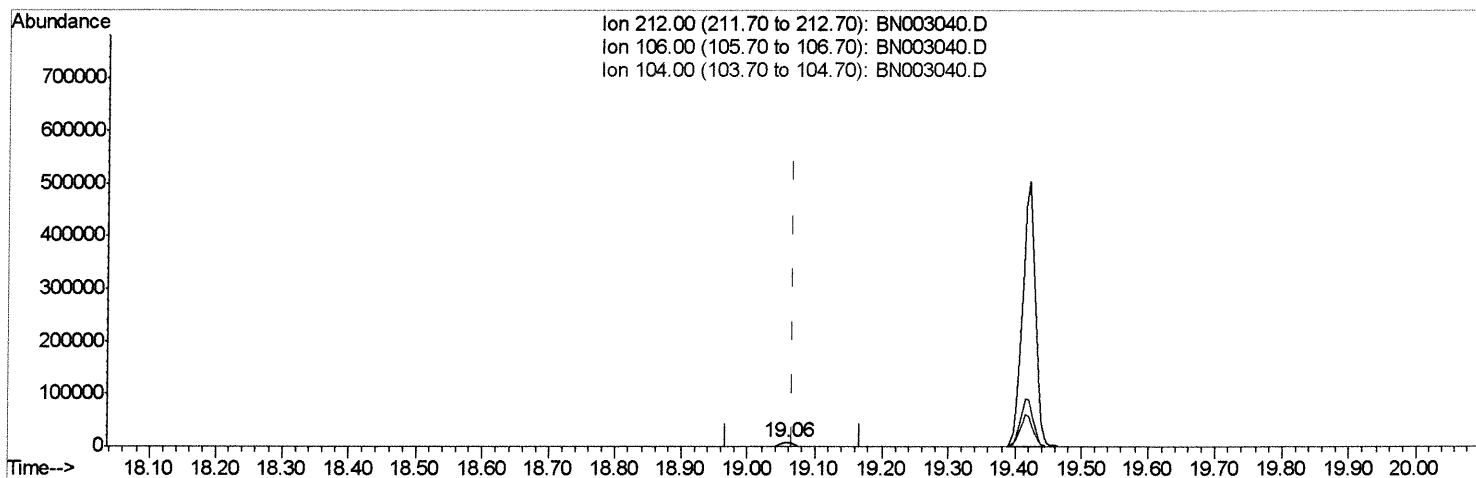
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
Data File : BN003040.D  
Acq On : 09 Oct 2018 23:01  
Operator : MJ/SJ  
Sample : J5157-10  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
C0AD2

Manual Integrations  
APPROVED

Sohil  
10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:16:39 2018  
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TIC: BN003040.D

(14) Fluoranthene-d10 (SURR)

19.058min (-0.009) 0.36ng/ul m

5/10/12/18

response 9762

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 212.00 | 100   | 100   |
| 106.00 | 15.40 | 0.00# |
| 104.00 | 8.60  | 0.00# |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

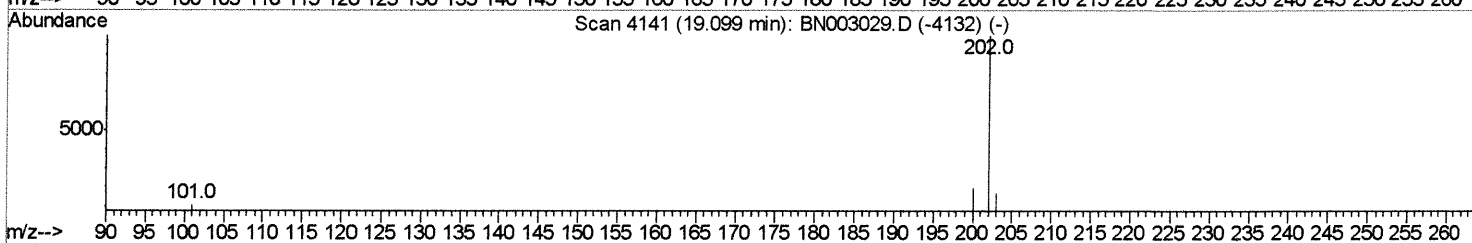
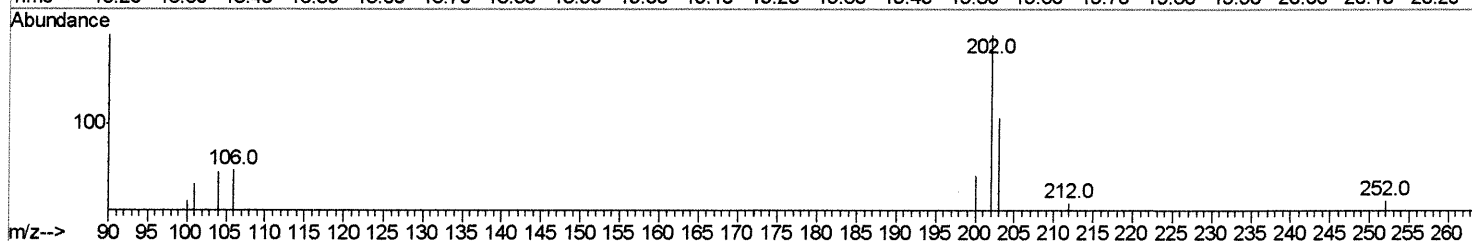
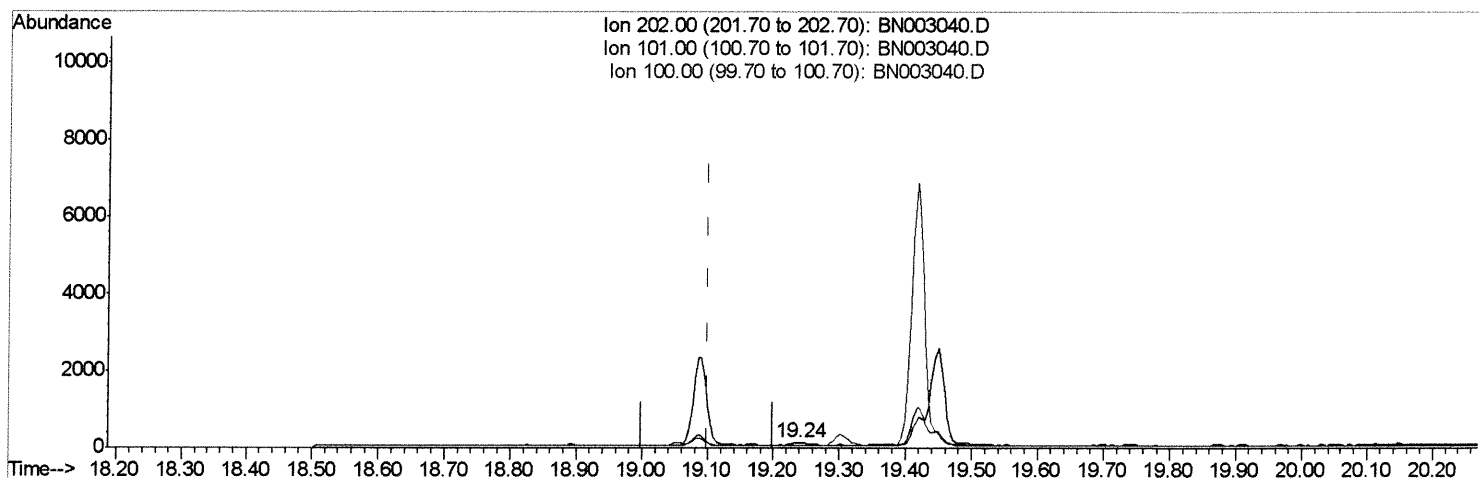
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Manual Integrations  
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 10/10/2018 4:57:51 PM

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TIC: BN003040.D

(15) Fluoranthene (C)

19.239min (+0.139) 0.00ng/ul

response 122

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 12.30 | 47.26# |
| 100.00 | 9.10  | 41.10# |
| 0.00   | 0.00  | 0.00   |

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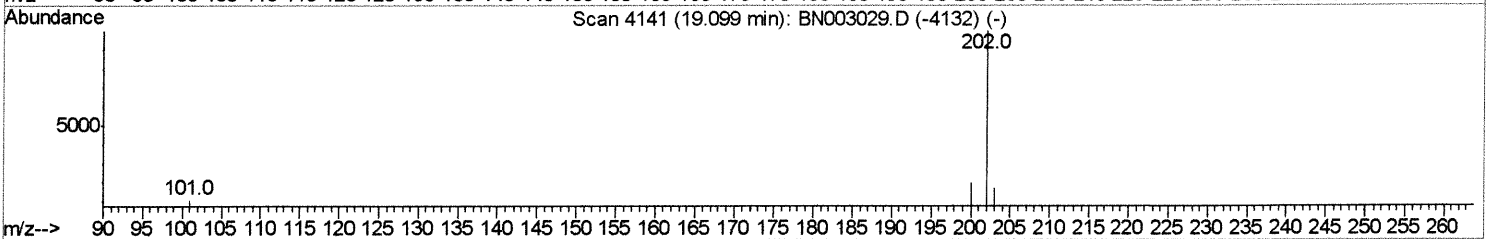
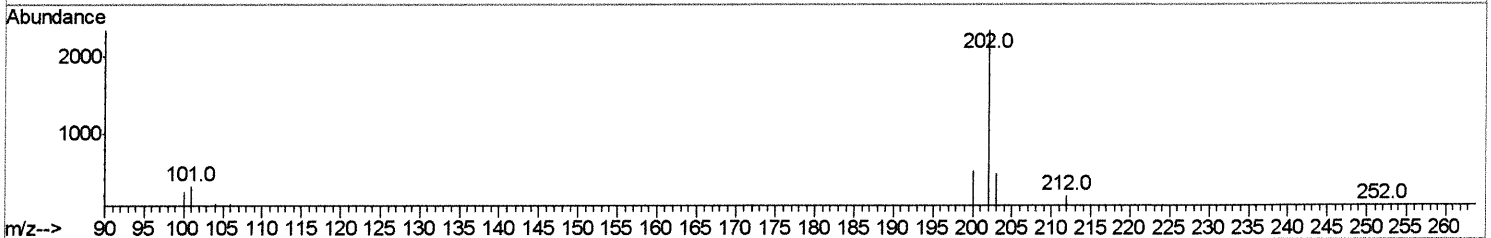
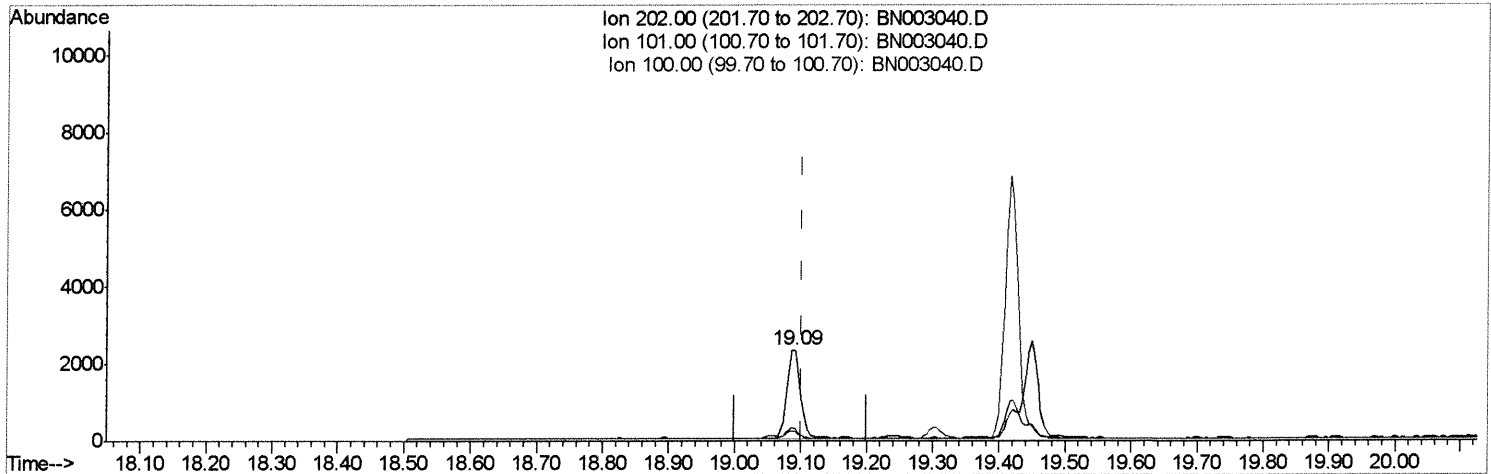
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(15) Fluoranthene (C)

19.090min (-0.009) 0.11ng/ul m *3110/12/18*

response 3312

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.30 | 13.31 |
| 100.00 | 9.10  | 10.50 |
| 0.00   | 0.00  | 0.00  |

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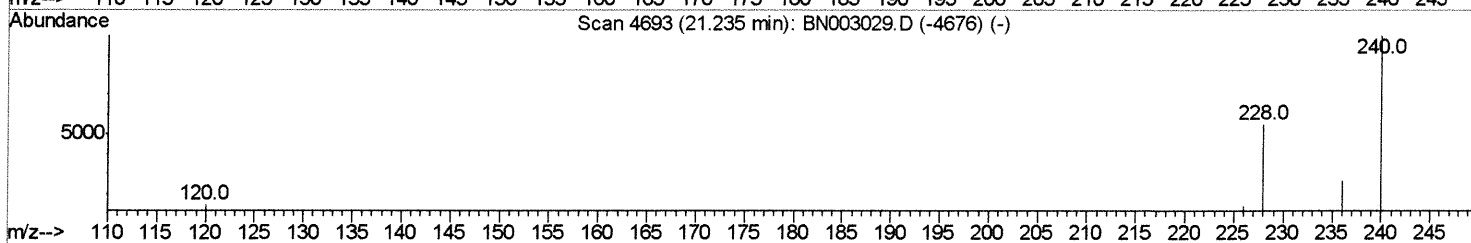
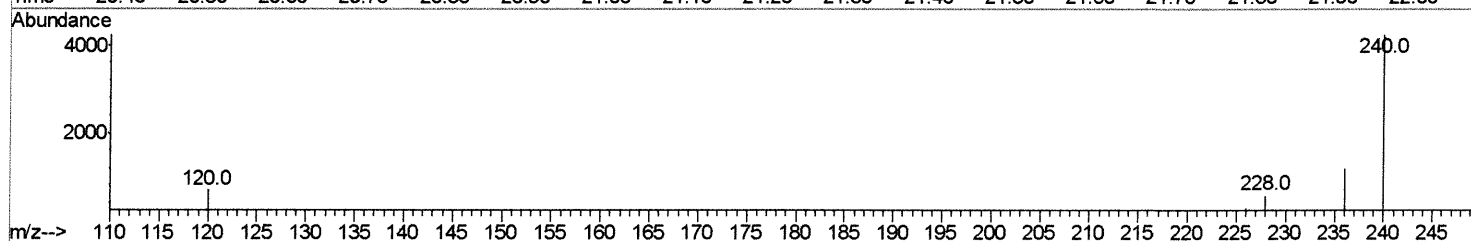
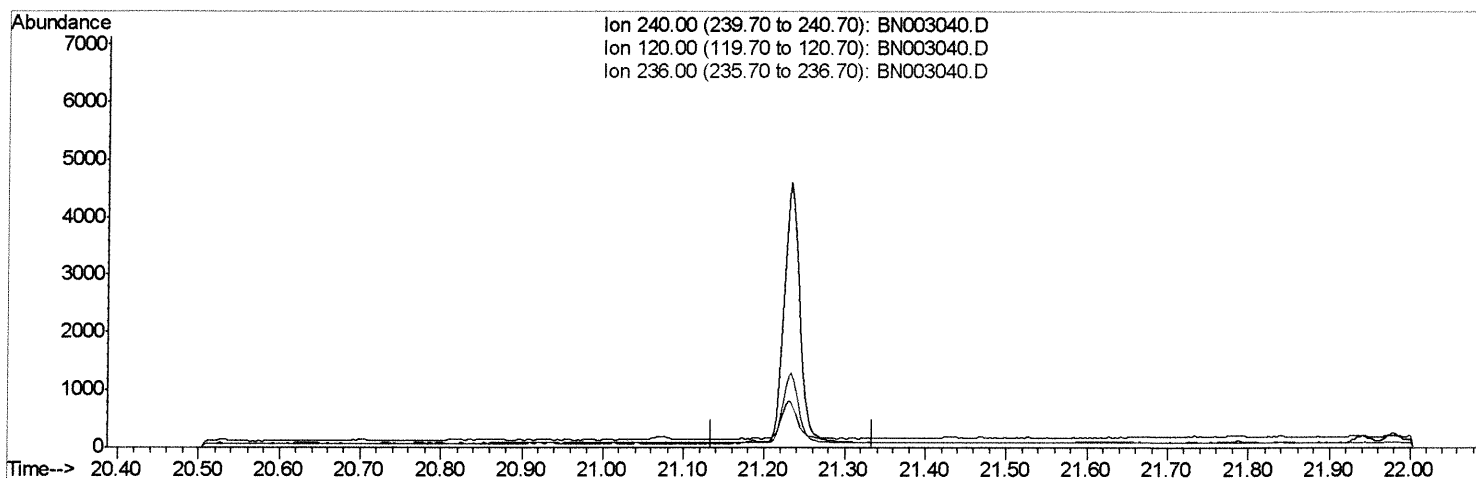
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(16) Chrysene-d12 (I)

21.235min (-21.235) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 240.00 | 100   | 0.00  |
| 120.00 | 16.40 | 0.00# |
| 236.00 | 28.10 | 0.00# |
| 0.00   | 0.00  | 0.00  |

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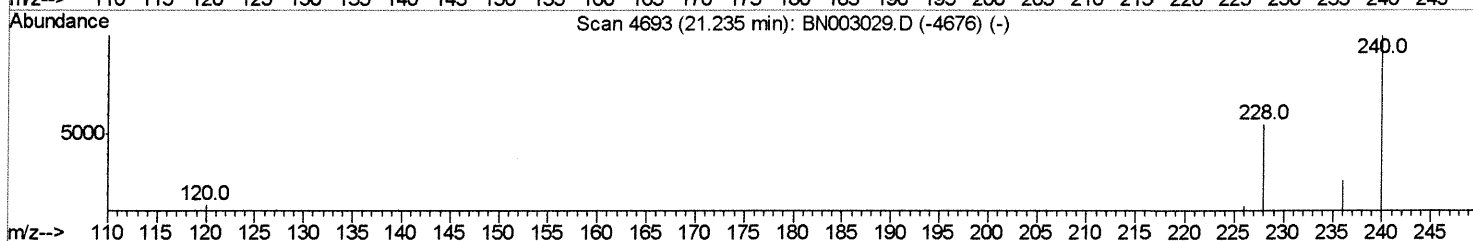
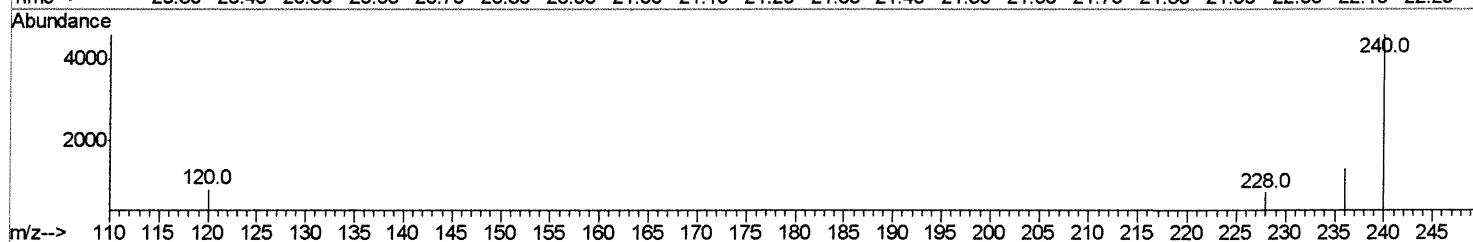
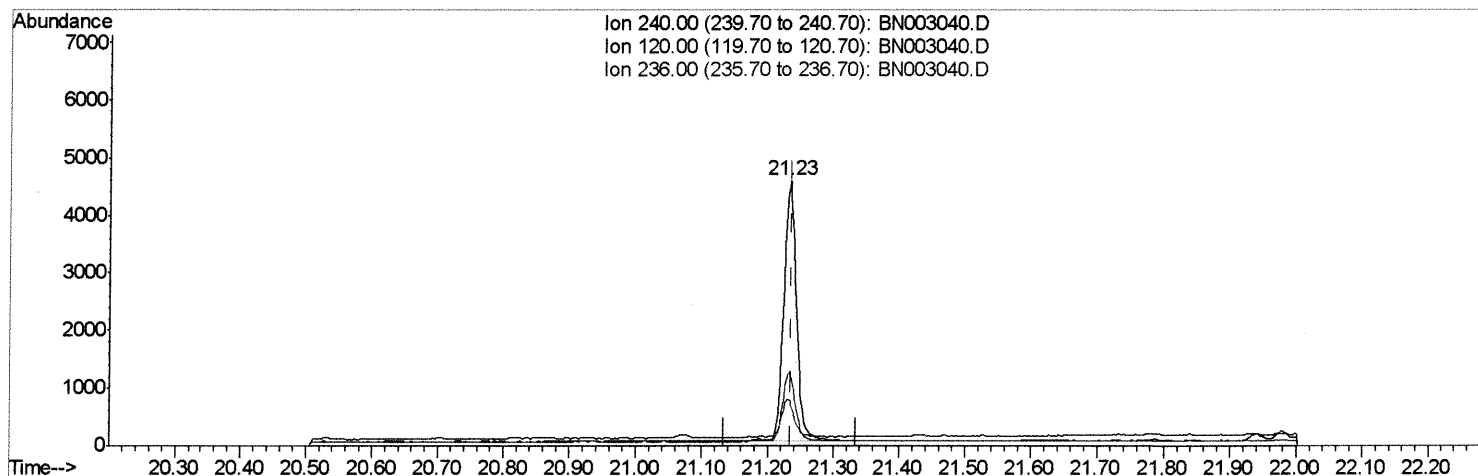
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(16) Chrysene-d12 (I)

21.232min (-0.003) 0.40ng/ul m

*SJ 10/12/18*

response 5952

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 240.00 | 100   | 100   |
| 120.00 | 16.40 | 17.08 |
| 236.00 | 28.10 | 28.15 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

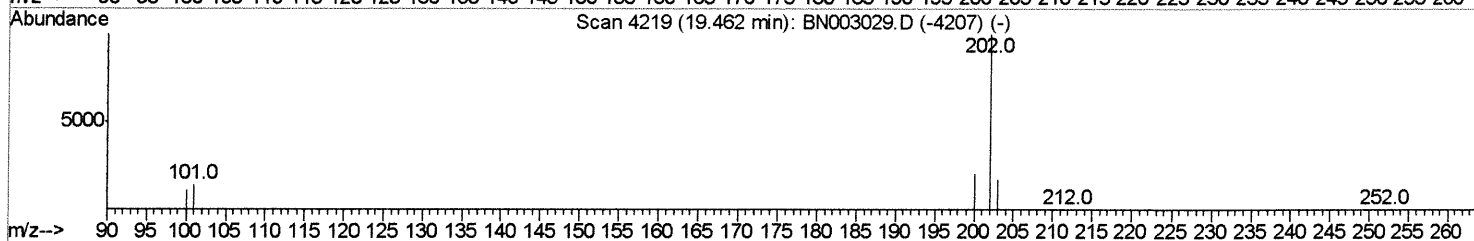
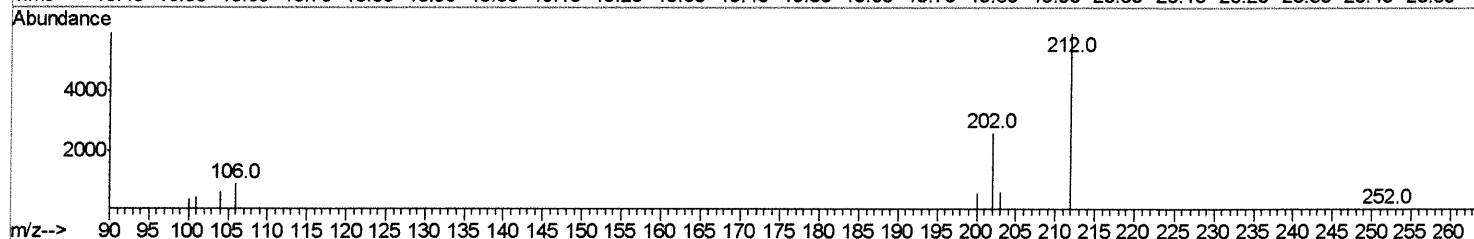
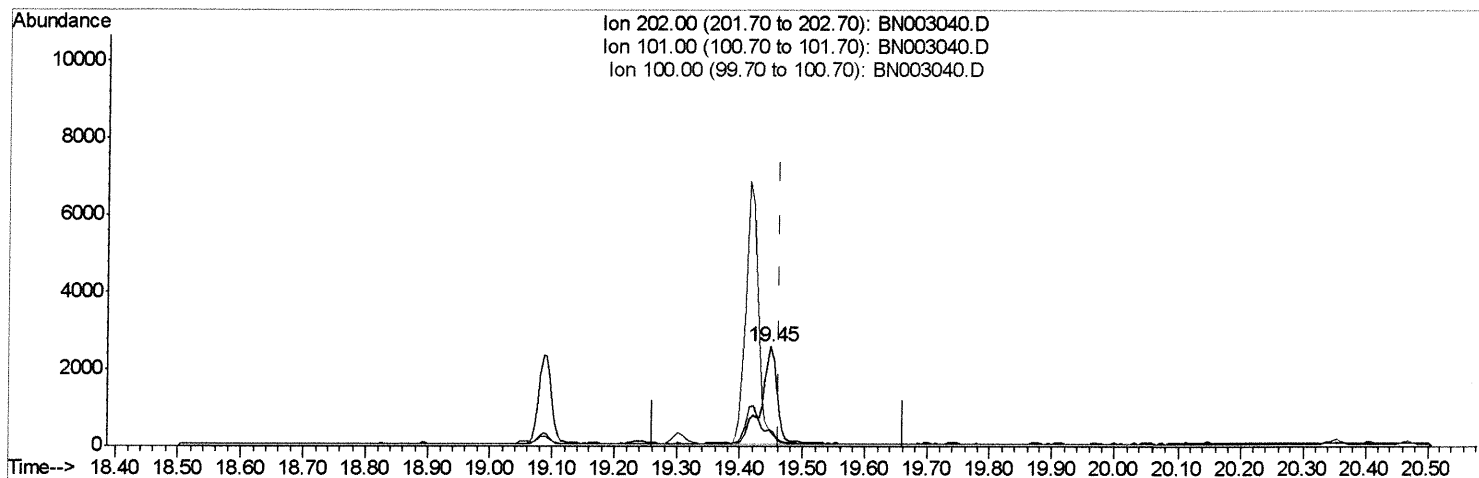
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampled :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:18:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



TIC: BN003040.D

(17) Pyrene

19.448min (-0.014) 0.20ng/ul

response 4520

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 14.90 | 17.00  |
| 100.00 | 12.40 | 15.07# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

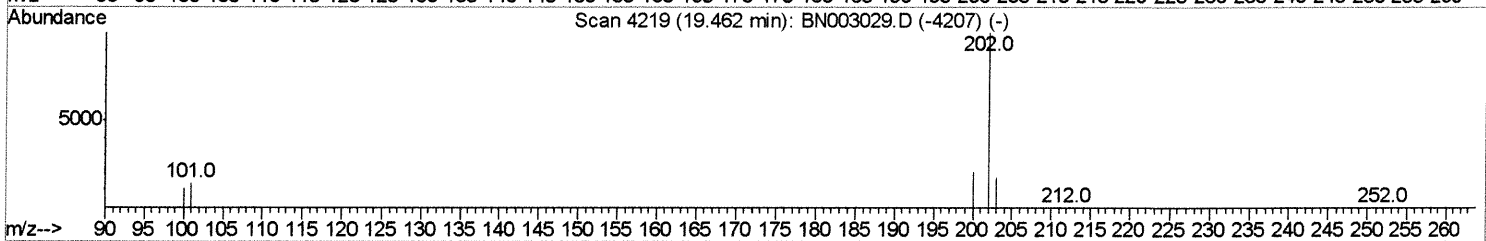
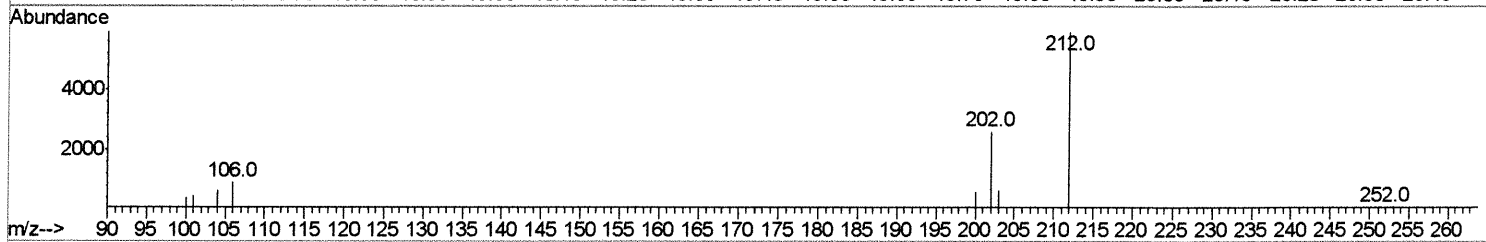
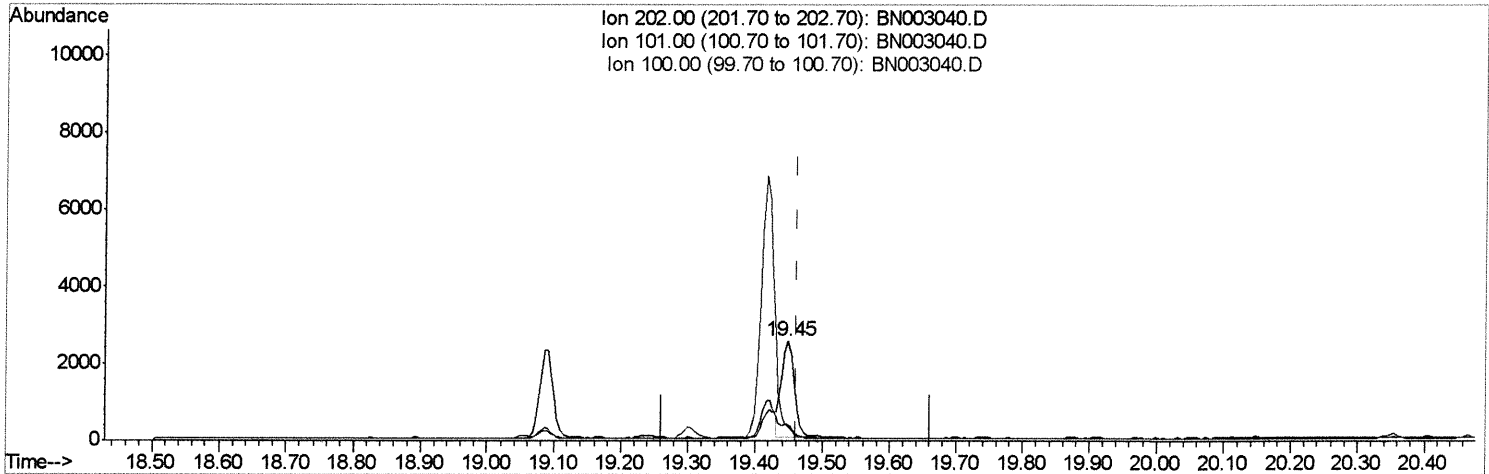
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:18:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



TIC: BN003040.D

(17) Pyrene

19.448min (-0.014) 0.14ng/ul m *SJ 10/12/18*

response 3300

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 14.90 | 17.00  |
| 100.00 | 12.40 | 15.07# |
| 0.00   | 0.00  | 0.00   |



# Quantitation Report (Qedit)

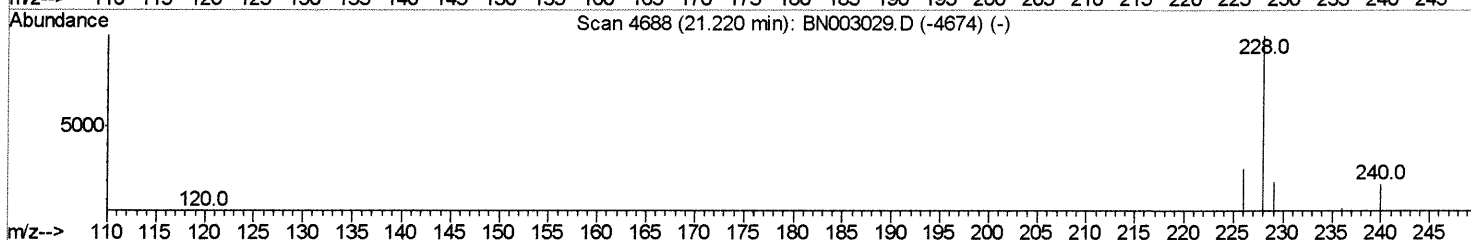
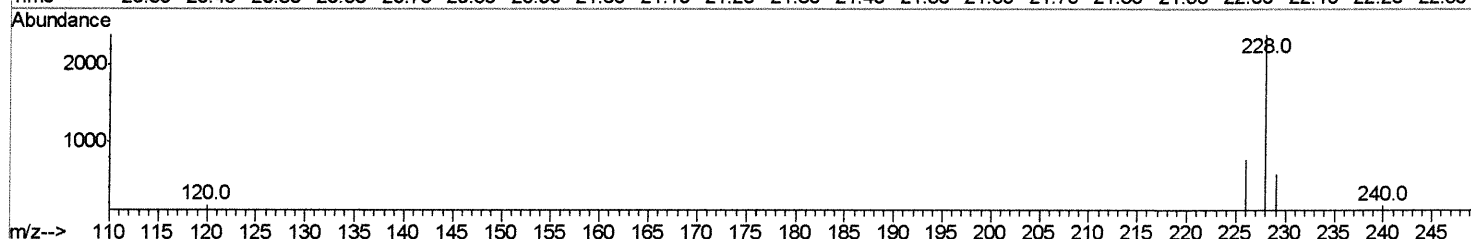
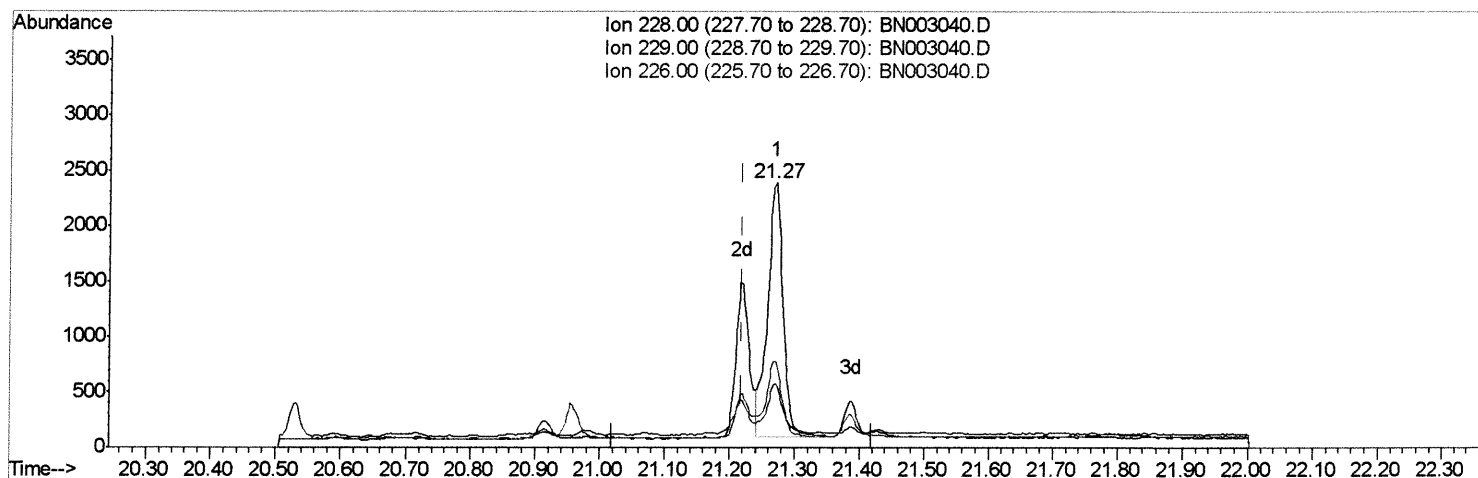
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:18:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



TIC: BN003040.D

(18) Benzo(a)anthracene  
 21.270min (+0.050) 0.20ng/ul  
 response 3774

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 228.00 | 100   | 100   |
| 229.00 | 20.20 | 24.18 |
| 226.00 | 27.90 | 32.18 |
| 0.00   | 0.00  | 0.00  |



# Quantitation Report (Qedit)

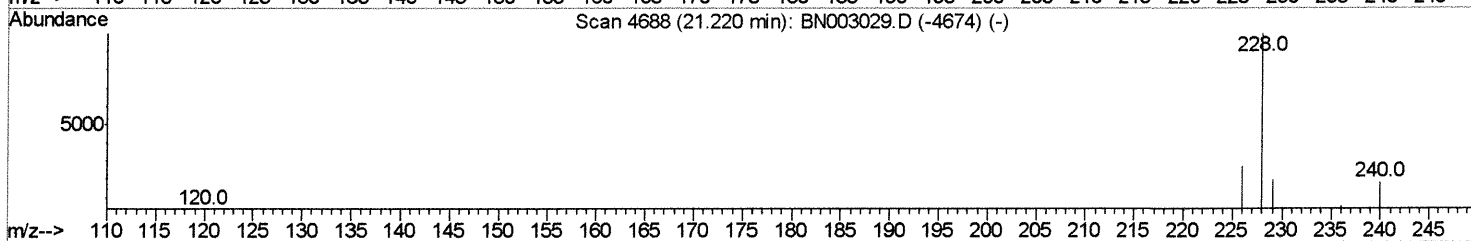
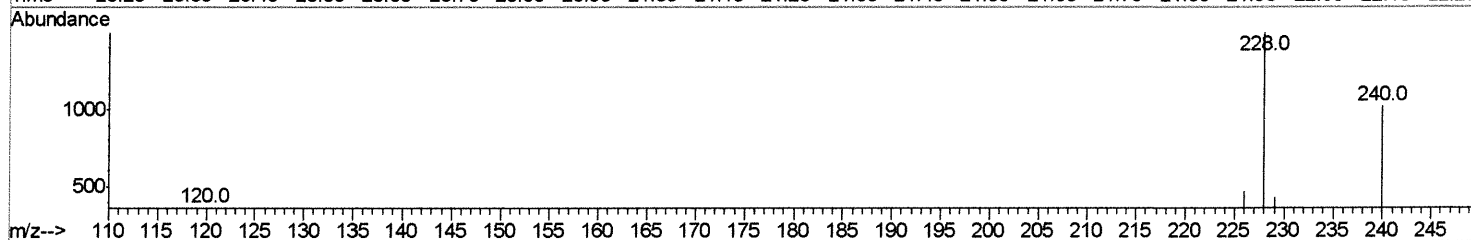
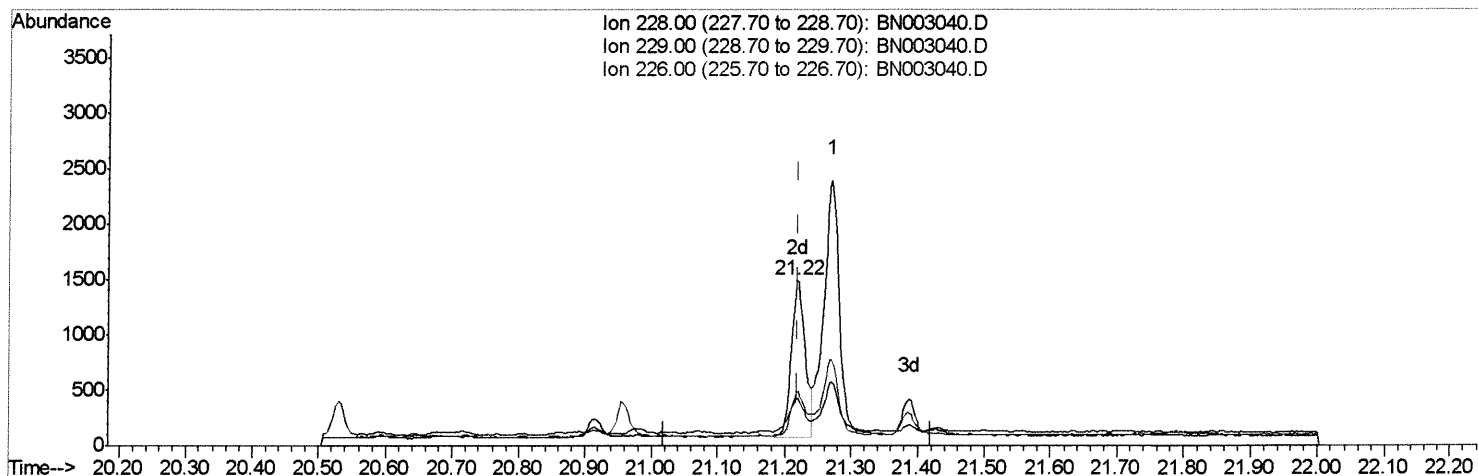
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:18:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



TIC: BN003040.D

(18) Benzo(a)anthracene

21.217min (-0.003) 0.11ng/ul m

*SJ 10/12/18*

response 2059

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 229.00 | 20.20 | 28.84# |
| 226.00 | 27.90 | 31.79  |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (Qedit)

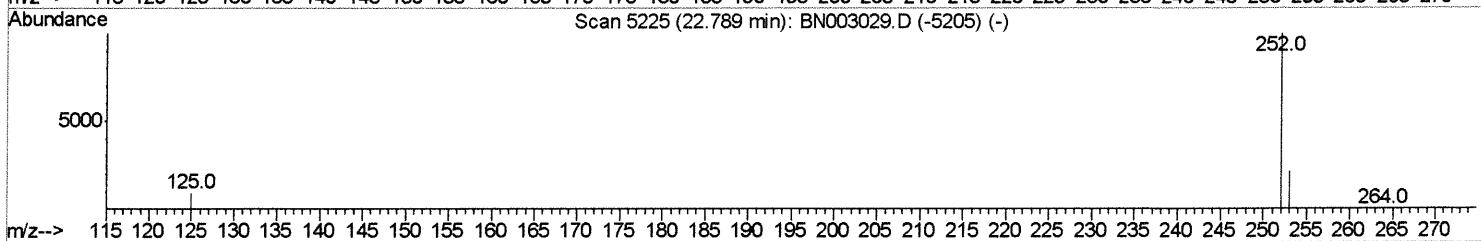
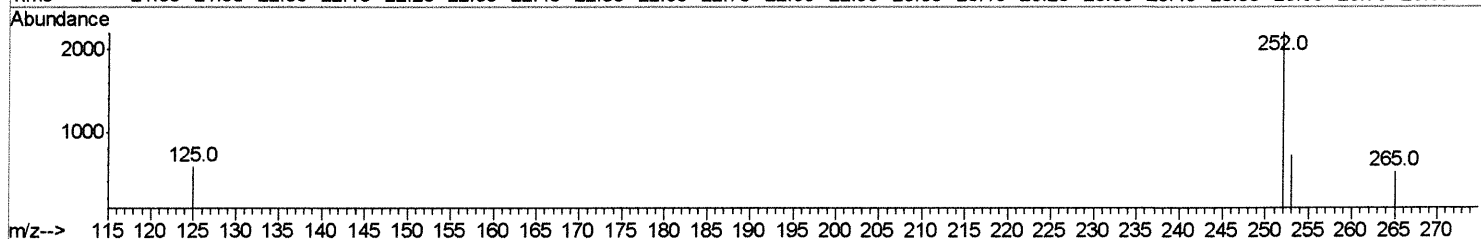
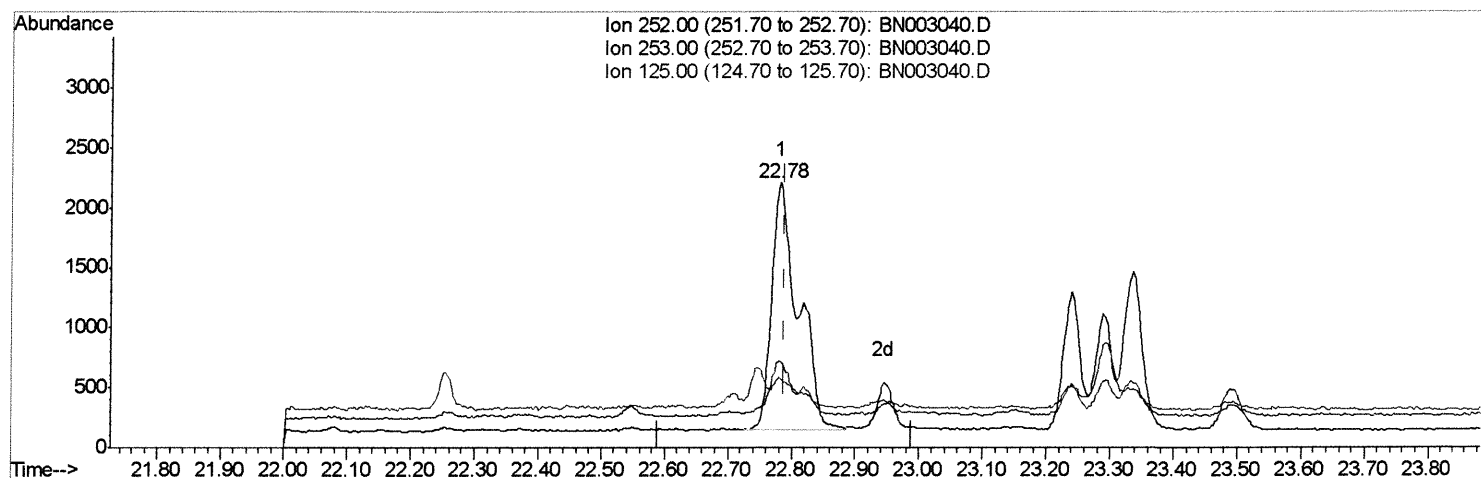
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
Data File : BN003040.D  
Acq On : 09 Oct 2018 23:01  
Operator : MJ/SJ  
Sample : J5157-10  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
C0AD2

Manual Integrations  
APPROVED

Sohil  
10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:19:04 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 10 01:34:31 2018  
Response via : Initial Calibration



TIC: BN003040.D

(21) Benzo(b)fluoranthene

22.781min (-0.009) 0.28ng/ul

response 5994

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 26.60 | 32.67 |
| 125.00 | 17.10 | 26.42 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

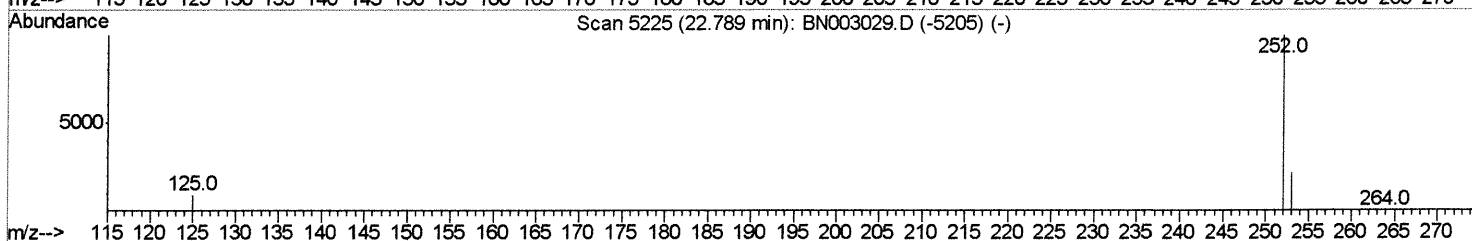
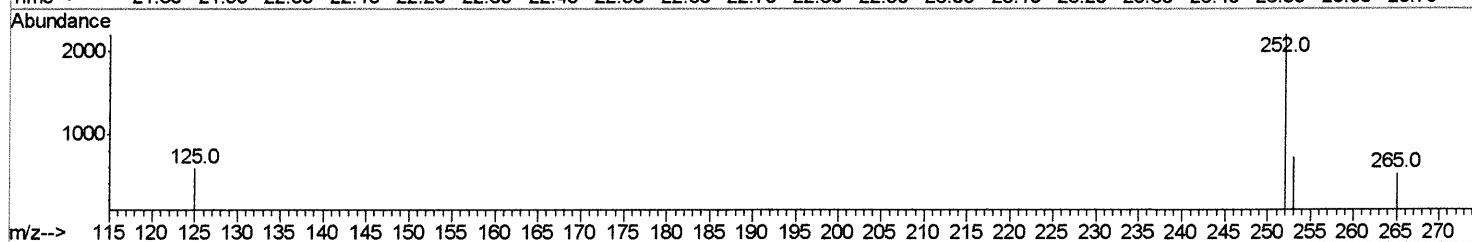
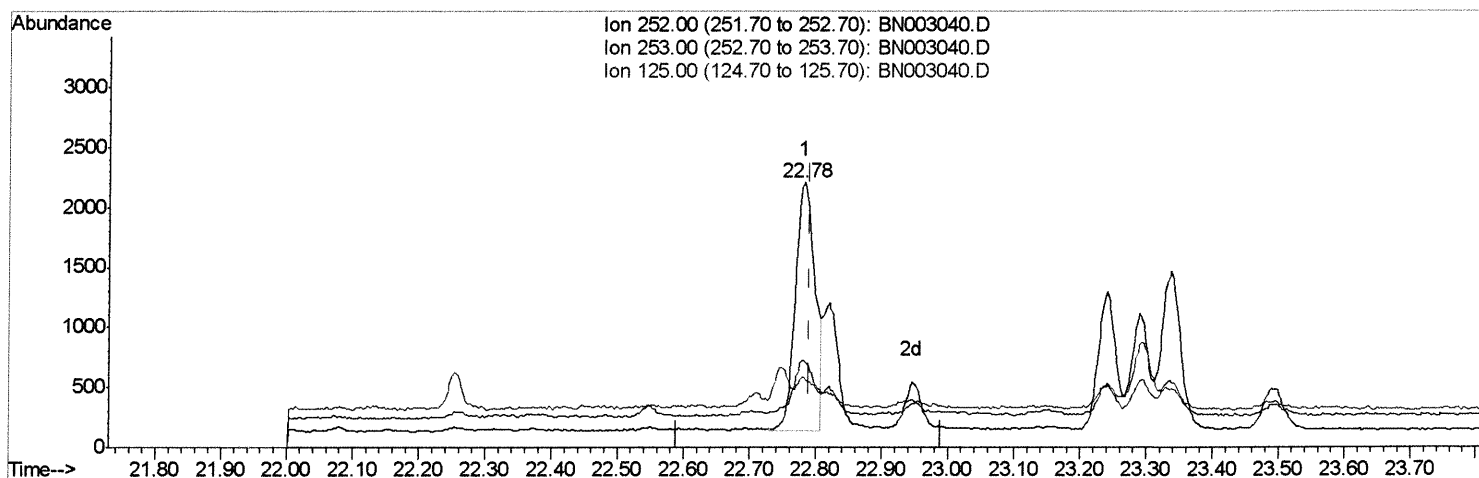
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:19:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



TIC: BN003040.D

(21) Benzo(b)fluoranthene

22.781min (-0.009) 0.20ng/ul m

*5716/12/18*

response 4320

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 26.60 | 32.67 |
| 125.00 | 17.10 | 26.42 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

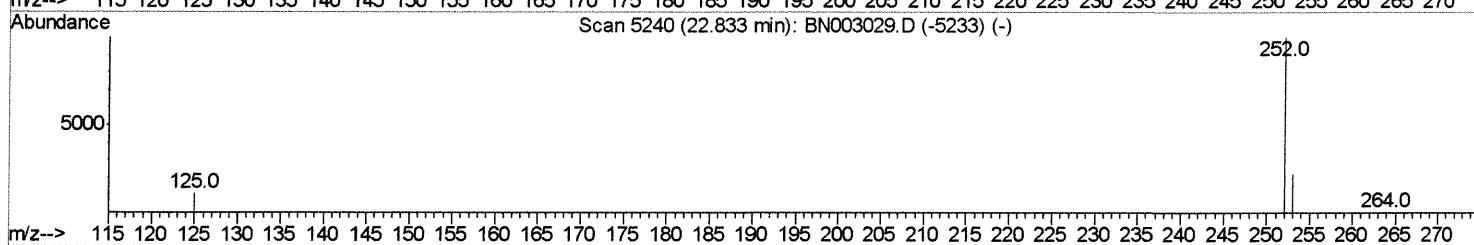
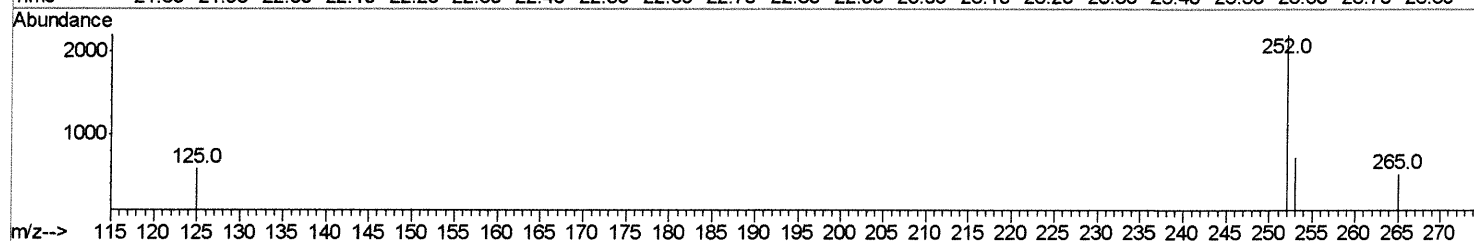
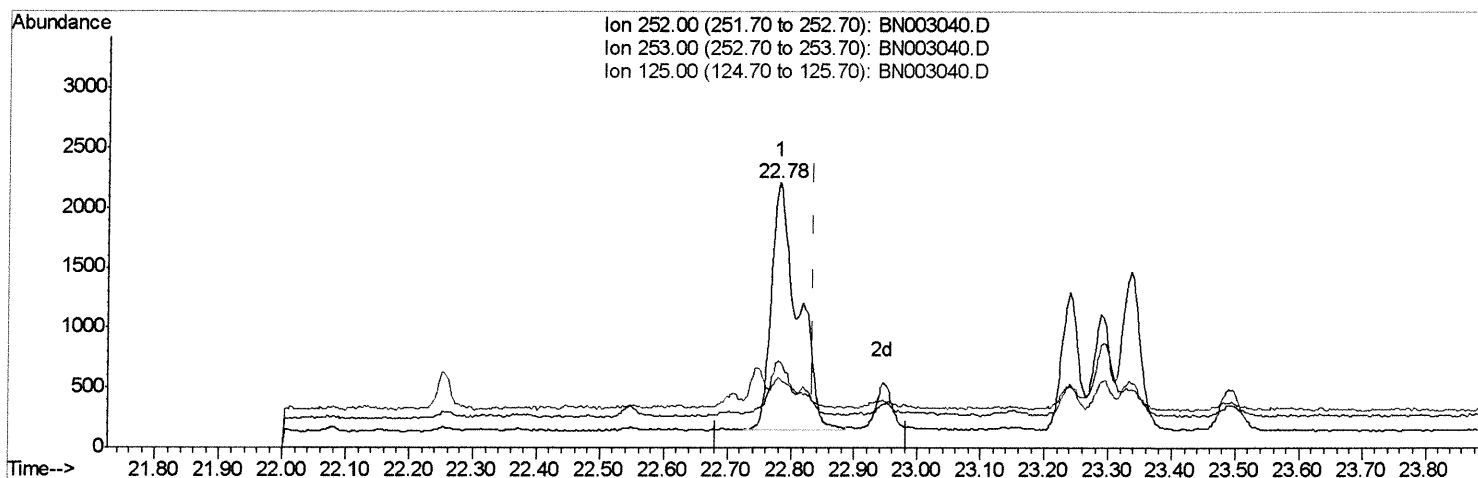
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:19:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



TIC: BN003040.D

(22) Benzo(k)fluoranthene  
 22.781min (-0.053) 0.27ng/ul  
 response 5994  

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 26.60 | 32.67# |
| 125.00 | 17.60 | 26.42# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

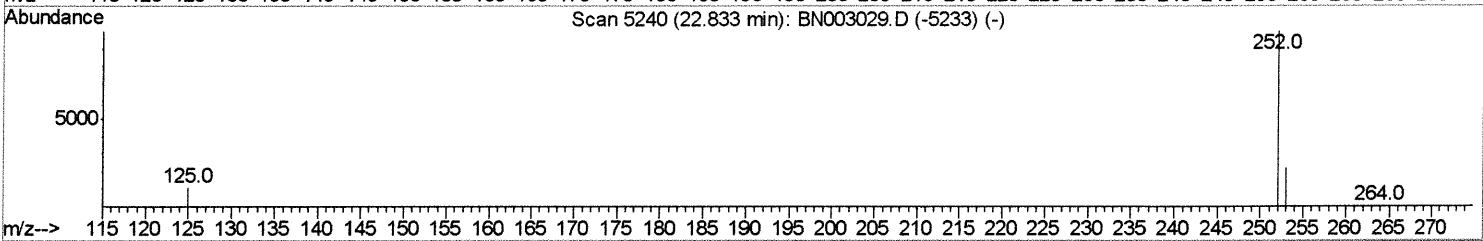
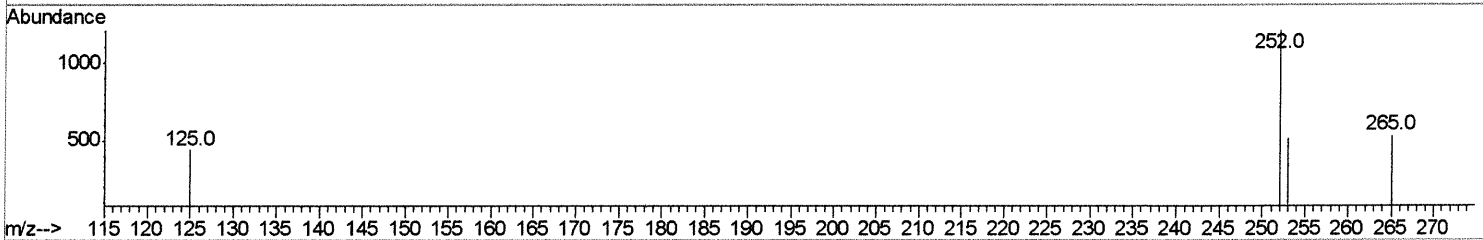
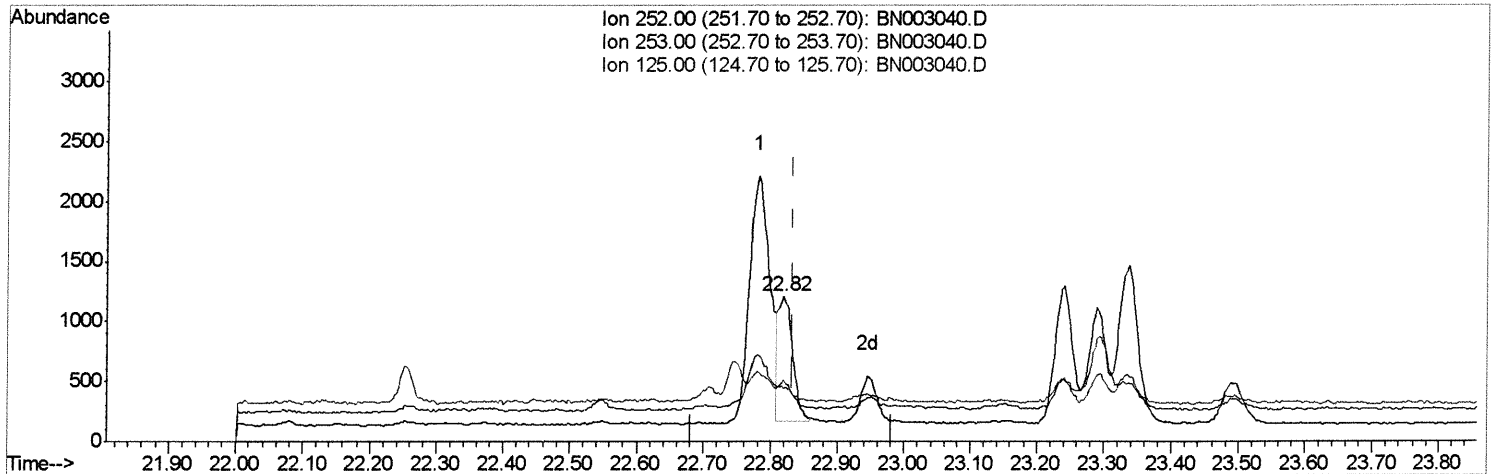
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:19:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.819min (-0.015) 0.07ng/ul m

*SJ 10/12/18*

response 1569

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 26.60 | 42.57# |
| 125.00 | 17.60 | 36.68# |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101018\  
 Data File : BN003040.D  
 Acq On : 09 Oct 2018 23:01  
 Operator : MJ/SJ  
 Sample : J5157-10  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AD2

Manual Integrations  
 APPROVED

Sohil  
 10/10/2018 4:57:51 PM

Quant Time: Oct 10 02:21:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 10 01:34:31 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QI on | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|-------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152   | 1875     | 0.40 | ng/ul | -0.02    |
| 2) Naphthalene-d8         | 10.39 | 136   | 7679     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.26 | 164   | 4497     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.02 | 188   | 9359m    | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.23 | 240   | 5952m    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.44 | 264   | 5890     | 0.40 | ng/ul | -0.01    |

| System Monitoring Compounds | R.T.  | QI on | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|-------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152   | 4934     | 0.41 | ng/ul | -0.02    |
| 14) Fluoranthene-d10        | 19.06 | 212   | 9762m    | 0.36 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QI on | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|-------|----------|-------|--------|--------|
| 3) Naphthalene             | 10.44 | 128   | 422      | 0.021 | ng/ul# | 63     |
| 7) Acenaphthylene          | 13.98 | 152   | 560      | 0.027 | ng/ul# | 77     |
| 12) Phenanthrene           | 17.06 | 178   | 1072m    | 0.041 | ng/ul  |        |
| 13) Anthracene             | 17.15 | 178   | 1778m    | 0.072 | ng/ul  |        |
| 15) Fluoranthene           | 19.09 | 202   | 3312m    | 0.108 | ng/ul  |        |
| 17) Pyrene                 | 19.45 | 202   | 3300m    | 0.143 | ng/ul  |        |
| 18) Benzo(a)anthracene     | 21.22 | 228   | 2059m    | 0.107 | ng/ul  |        |
| 19) Chrysene               | 21.27 | 228   | 3802     | 0.195 | ng/ul  | 95     |
| 21) Benzo(b)fluoranthene   | 22.78 | 252   | 4320m    | 0.204 | ng/ul  |        |
| 22) Benzo(k)fluoranthene   | 22.82 | 252   | 1569m    | 0.071 | ng/ul  |        |
| 23) Benzo(a)pyrene         | 23.34 | 252   | 2642     | 0.139 | ng/ul# | 80     |
| 24) Indeno(1,2,3-cd)pyrene | 25.67 | 276   | 1793     | 0.082 | ng/ul# | 92     |
| 26) Benzo(a,h,i)perylene   | 26.35 | 276   | 1763     | 0.096 | ng/ul# | 77     |

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