

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE103118\  
 Data File : BE098125.D  
 Acq On : 31 Oct 2018 20:45  
 Operator : SJ/JU  
 Sample : J5657-15  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A40E6

Manual Integrations  
 APPROVED

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 11/1/2018 11:08:06 AM

Quant Time: Nov 01 03:01:52 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 01 02:11:37 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.87  | 152  | 1085     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.67 | 136  | 5172     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.53 | 164  | 3549     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.28 | 188  | 8215m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.47 | 240  | 8811m    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.01 | 264  | 8117m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 2257     | 0.24   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.31 | 212  | 6668m    | 0.25   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 12) Phenanthrene            | 17.32 | 178  | 978m     | 0.052  | ng/ul  |          |
| 15) Fluoranthene            | 19.35 | 202  | 2507m    | 0.104  | ng/ul  |          |
| 17) Pyrene                  | 19.71 | 202  | 2168     | 0.105  | ng/ul# | 86       |
| 18) Benzo(a)anthracene      | 21.45 | 228  | 2202m    | 0.085  | ng/ul  |          |
| 19) Chrysene                | 21.50 | 228  | 1412m    | 0.070  | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 23.24 | 252  | 2042m    | 0.091  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.28 | 252  | 895m     | 0.041  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.90 | 252  | 1376m    | 0.064  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.70 | 276  | 1148m    | 0.046  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 27.54 | 276  | 906m     | 0.043  | ng/ul  |          |

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

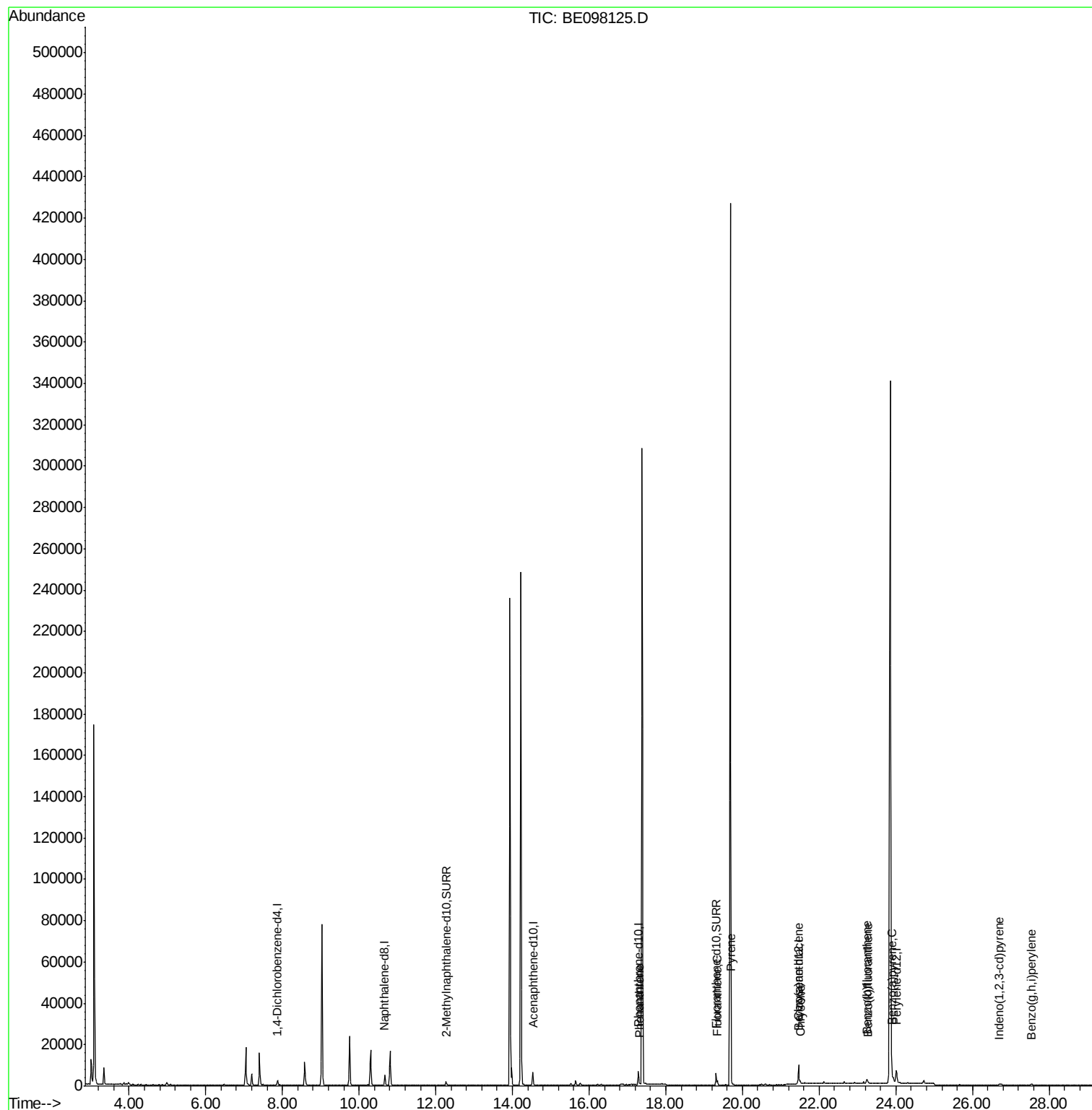
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE103118\  
Data File : BE098125.D  
Acq On : 31 Oct 2018 20:45  
Operator : SJ/JU  
Sample : J5657-15  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

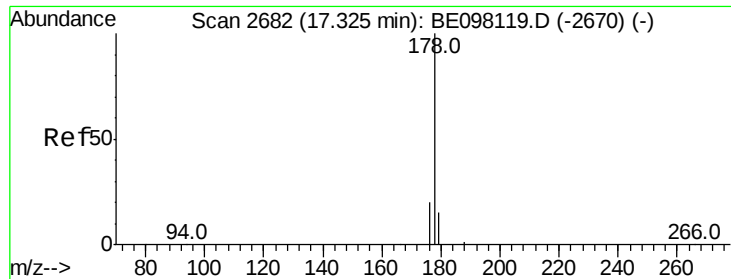
Instrument :  
BNA\_E  
ClientSampleId :  
A40E6

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Quant Time: Nov 01 03:01:52 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 01 02:11:37 2018  
Response via : Initial Calibration





#12

Phenanthrene

Concen: 0.052 ng/ul m

RT: 17.32 min Scan# 2680

Delta R.T. -0.00 min

Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

Instrument :

BNA\_E

ClientSampleId :

A40E6

Tot Ion:178 Resp: 978

Ion Ratio Lower Upper

178 100

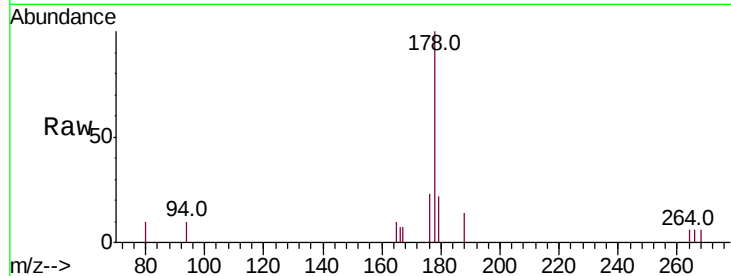
179 22.3 13.0 19.4#

176 23.4 15.7 23.5

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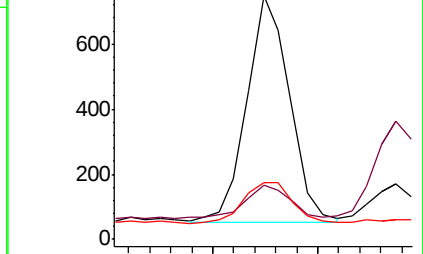
11/1/2018 11:08:06 AM



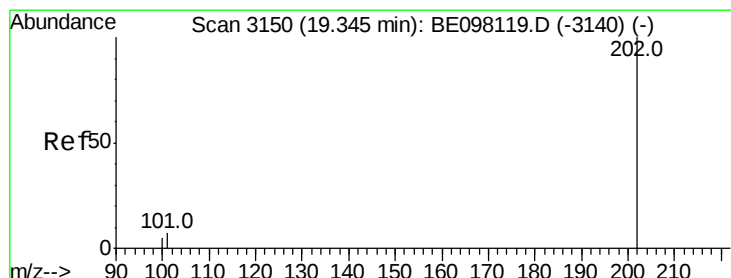
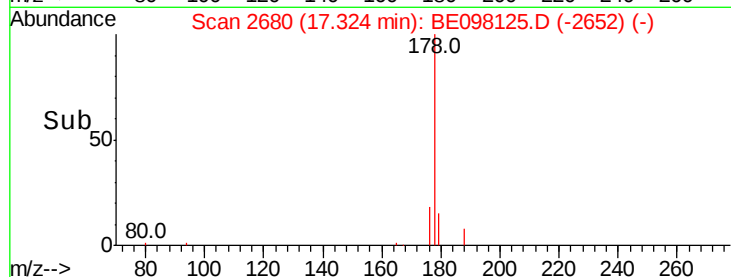
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#15

Fluoranthene

Concen: 0.104 ng/ul m

RT: 19.35 min Scan# 3148

Delta R.T. -0.00 min

Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

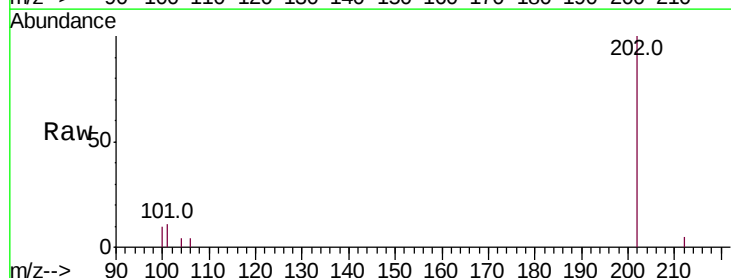
Tgt Ion:202 Resp: 2507

Ion Ratio Lower Upper

202 100

101 10.9 0.0 27.5

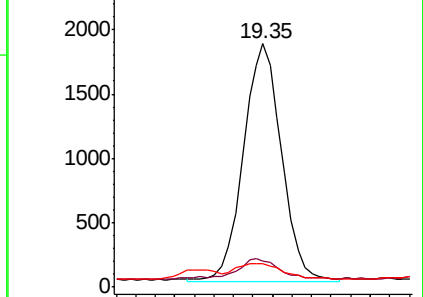
100 9.7 0.0 26.0



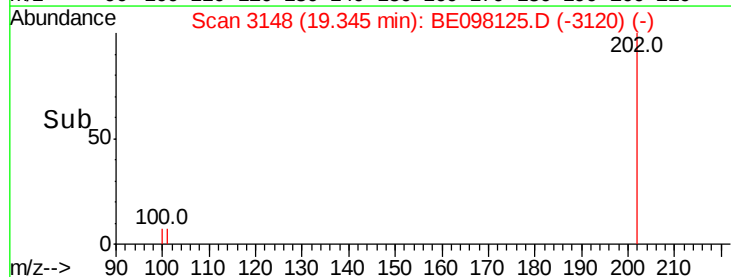
Abundance Ion 202.00 (201.70 to 202.70): E

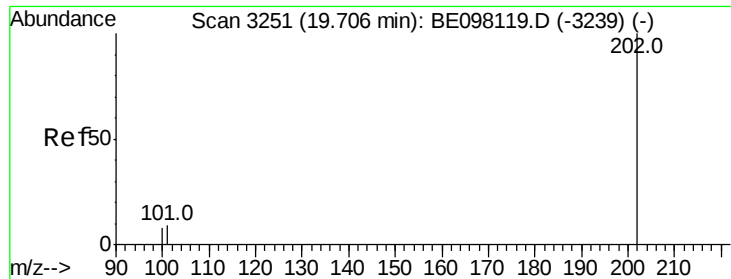
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE



Time-->





#17

Pvrene

Concen: 0.105 ng/ul

RT: 19.71 min Scan# 3249

Delta R.T. -0.00 min

Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

Instrument :

BNA\_E

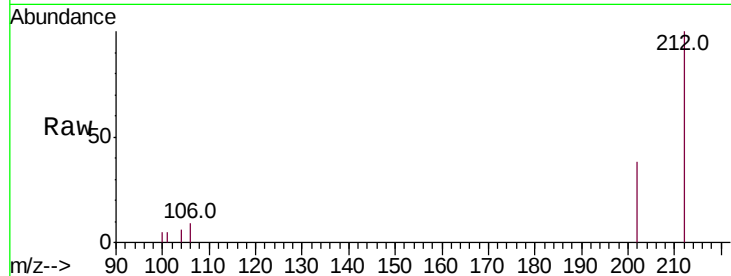
ClientSampleId :

A40E6

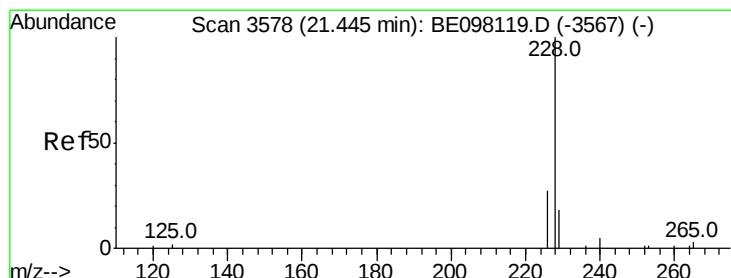
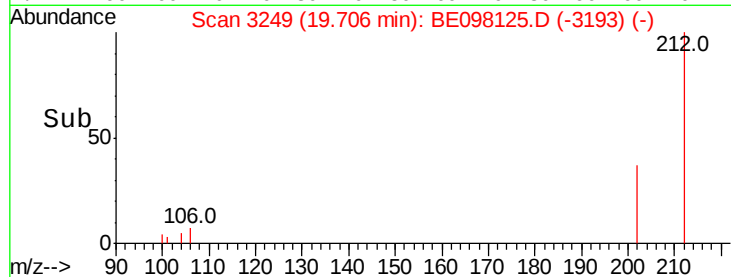
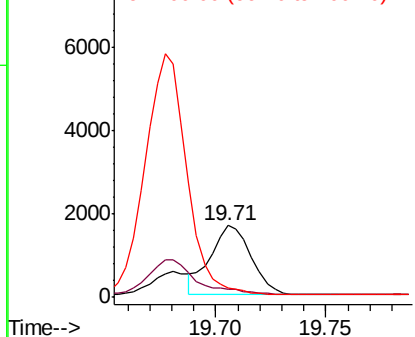
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 2168  |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.1  | 6.9   | 10.3# |
| 100       | 13.8  | 6.0   | 9.0#  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): E



#18

Benzo(a)anthracene

Concen: 0.085 ng/ul m

RT: 21.45 min Scan# 3576

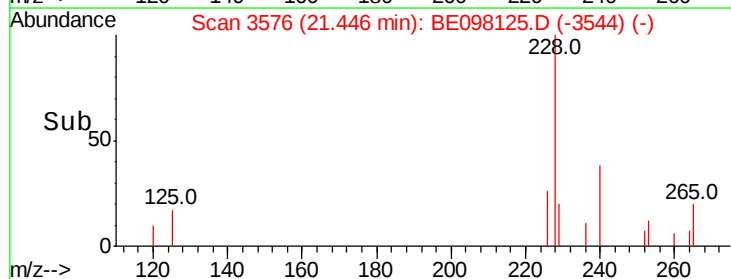
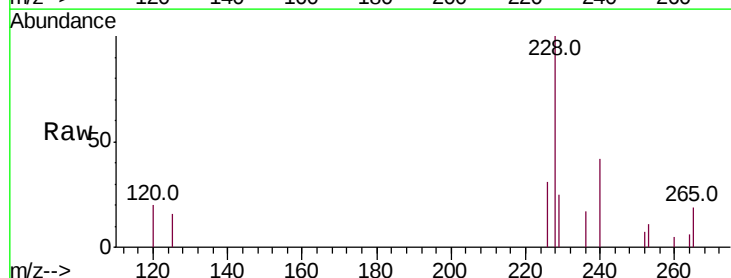
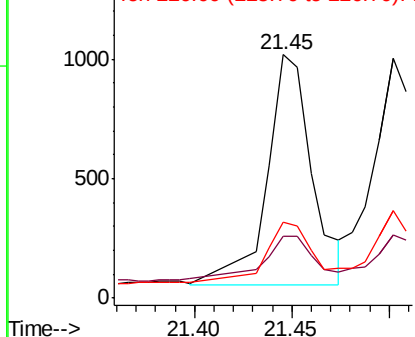
Delta R.T. 0.00 min

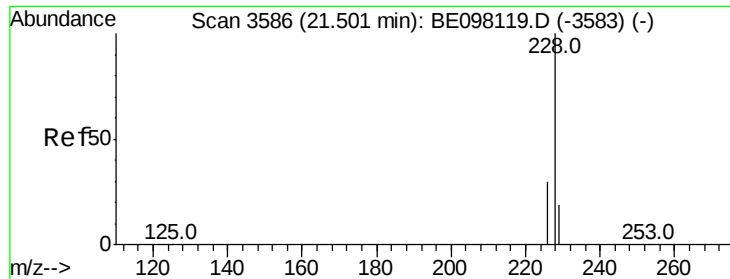
Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 2202  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 25.4  | 16.1  | 24.1# |
| 226       | 31.4  | 22.2  | 33.4  |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.070 ng/ul m

RT: 21.50 min Scan# 3584

Delta R.T. 0.00 min

Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

Instrument :

BNA\_E

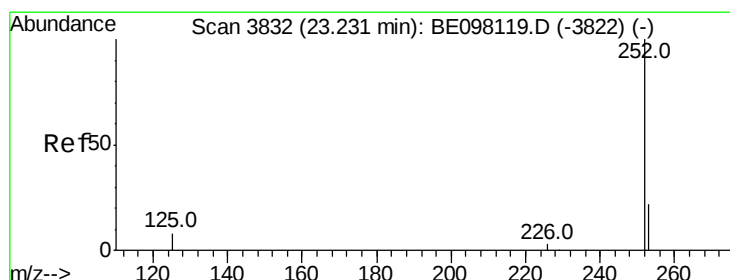
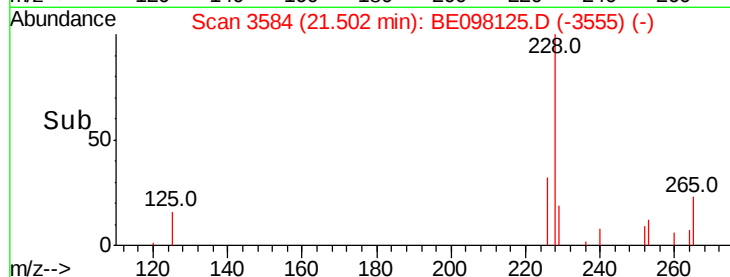
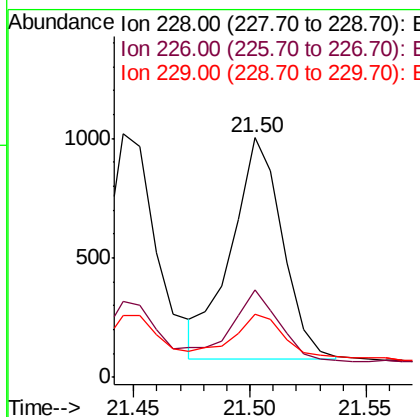
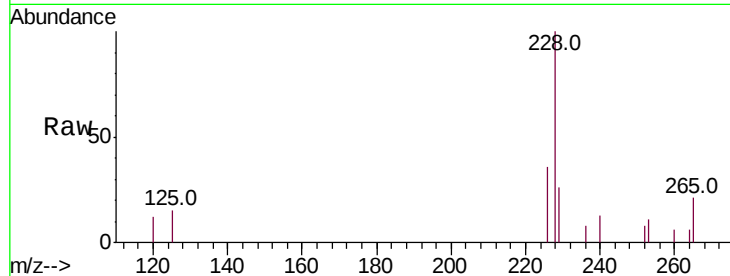
ClientSampleId :

A40E6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 1412  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 36.4  | 24.6  | 37.0  |
| 229       | 26.1  | 16.4  | 24.6# |

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#21

Benzo(b)fluoranthene

Concen: 0.091 ng/ul m

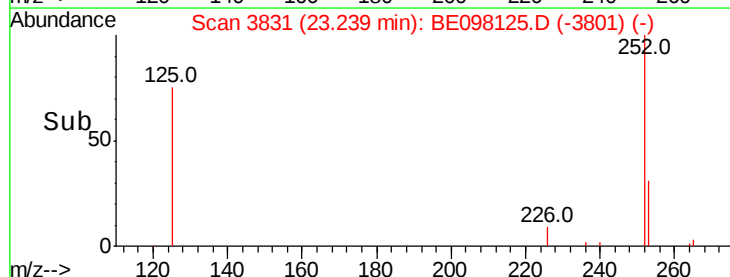
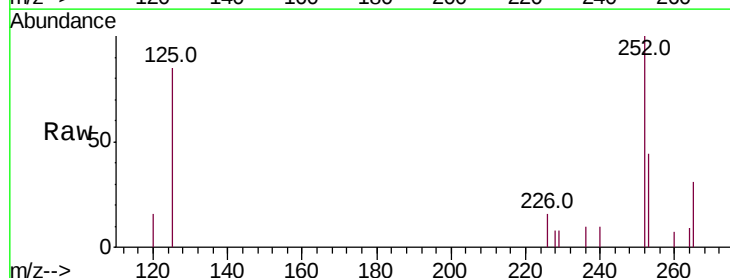
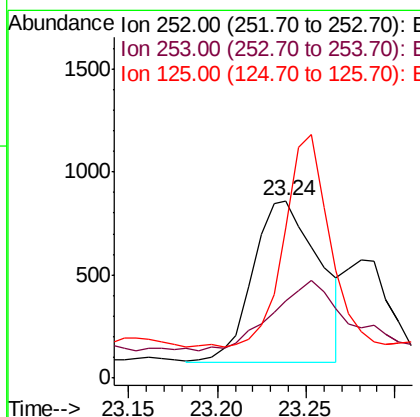
RT: 23.24 min Scan# 3831

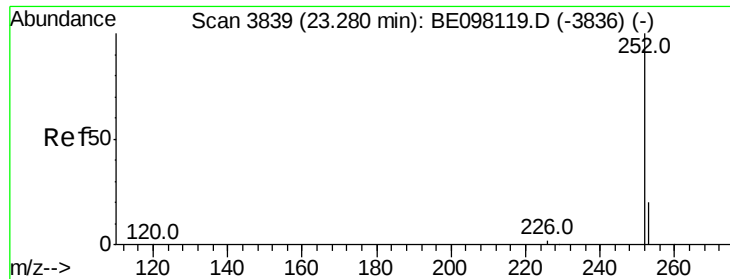
Delta R.T. 0.01 min

Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 2042  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 43.8  | 0.0   | 47.8  |
| 125       | 84.8  | 0.0   | 16.8# |





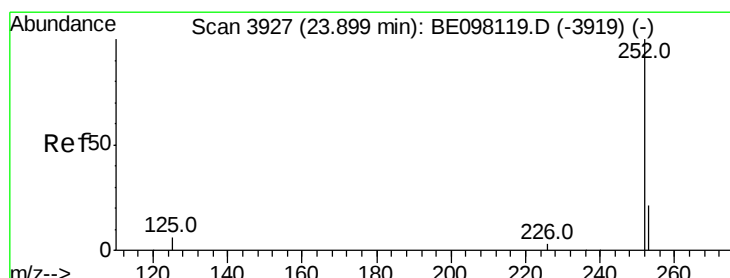
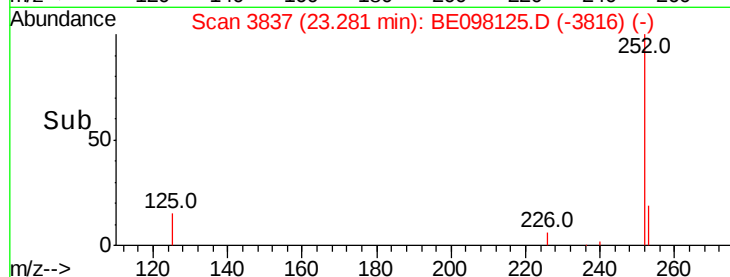
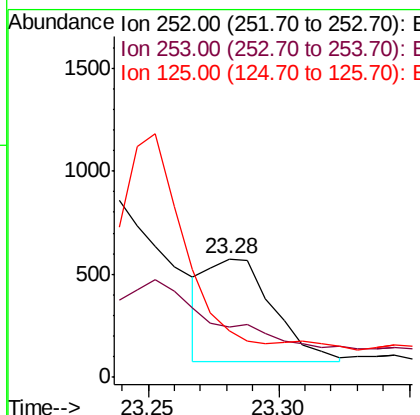
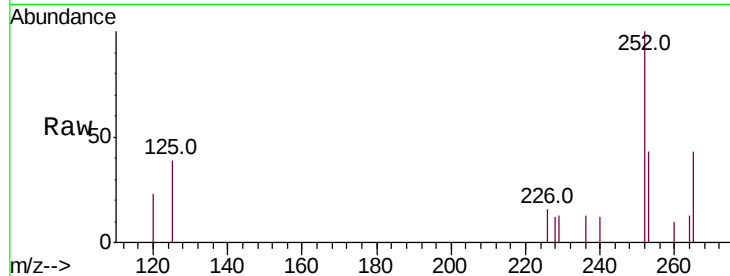
#22  
Benzo(k)fluoranthene  
Concen: 0.041 ng/ul m  
RT: 23.28 min Scan# 3837  
Delta R.T. 0.00 min  
Lab File: BE098125.D  
Acq: 31 Oct 2018 20:45

Instrument :  
BNA\_E  
ClientSampled :  
A40E6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 42.9  | 19.3  | 28.9# |
| 125     | 39.2  | 6.2   | 9.2#  |

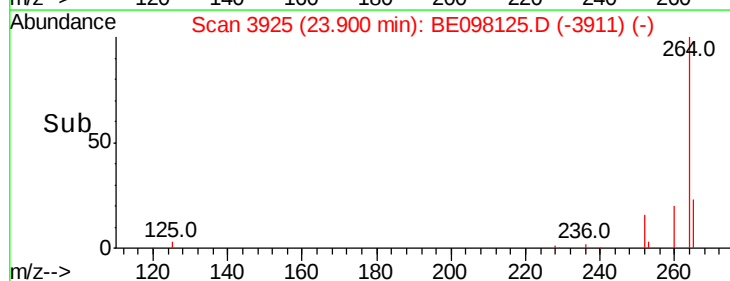
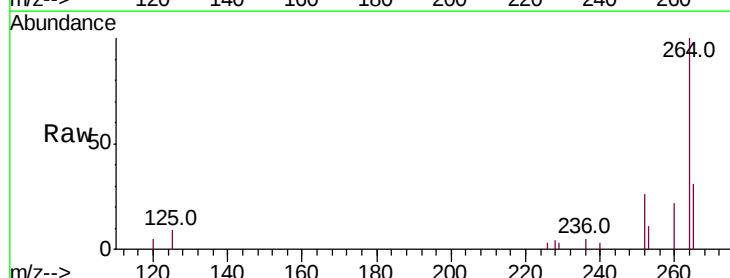
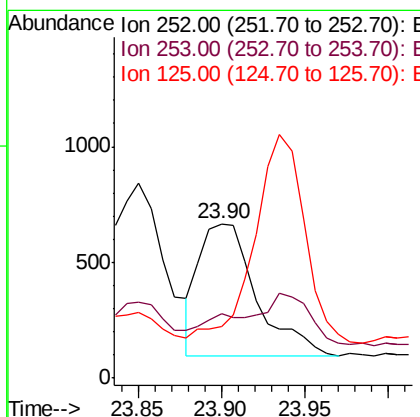
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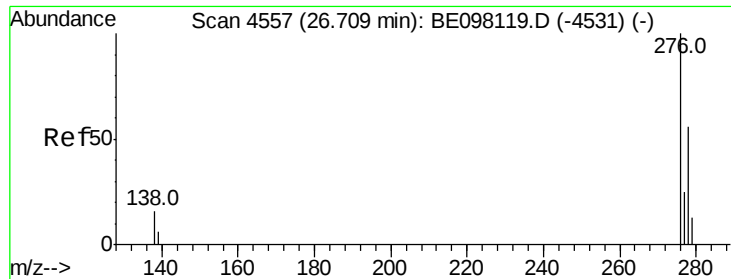
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#23  
Benzo(a)pyrene  
Concen: 0.064 ng/ul m  
RT: 23.90 min Scan# 3925  
Delta R.T. 0.00 min  
Lab File: BE098125.D  
Acq: 31 Oct 2018 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 41.3  | 19.4  | 29.2# |
| 125     | 33.7  | 7.8   | 11.8# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.046 ng/ul m

RT: 26.70 min Scan# 4552

Delta R.T. -0.01 min

Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

Instrument :

BNA\_E

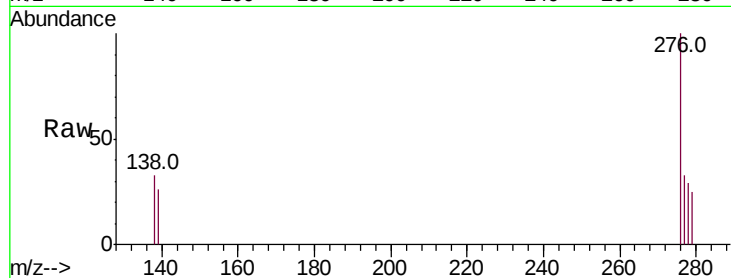
ClientSampled :

A40E6

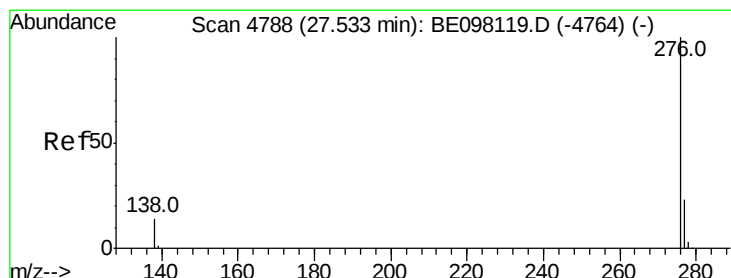
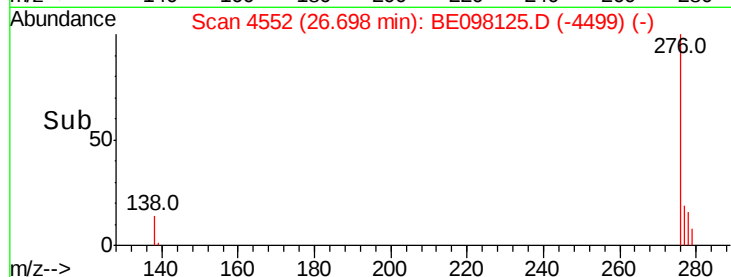
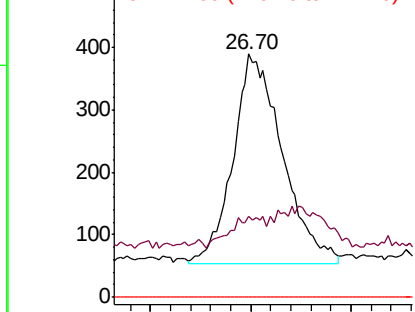
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.4   | 11.8  | 17.8# |
| 227     | 0.0   | 0.0   | 0.0   |

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Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



#26

Benzo(g,h,i)perylene

Concen: 0.043 ng/ul m

RT: 27.54 min Scan# 4787

Delta R.T. 0.00 min

Lab File: BE098125.D

Acq: 31 Oct 2018 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 41.1  | 11.6  | 17.4# |
| 277     | 38.2  | 20.8  | 31.2# |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

