

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE080918\  
 Data File : BE097251.D  
 Acq On : 9 Aug 2018 15:15  
 Operator : SJ/JU  
 Sample : J4268-03DL 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA5DL

Manual Integrations  
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Sohil  
 8/10/2018 2:50:25 PM

Quant Time: Aug 09 16:32:31 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE080118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 23:25:58 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.39  | 152  | 1272     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.13 | 136  | 6823     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.02 | 164  | 3989     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.77 | 188  | 9190     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.97 | 240  | 9078     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.21 | 264  | 10657    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.73 | 152  | 744      | 0.07   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.81 | 212  | 1927     | 0.06   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.18 | 128  | 414      | 0.025  | ng/ul# | 73       |
| 7) Acenaphthylene           | 13.73 | 152  | 2201     | 0.128  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.08 | 153  | 857      | 0.069  | ng/ul# | 93       |
| 9) Fluorene                 | 15.08 | 166  | 1994     | 0.139  | ng/ul  | 93       |
| 12) Phenanthrene            | 16.81 | 178  | 12561    | 0.536  | ng/ul# | 89       |
| 13) Anthracene              | 16.90 | 178  | 3014     | 0.138  | ng/ul# | 93       |
| 15) Fluoranthene            | 18.84 | 202  | 30203    | 0.975  | ng/ul  | 84       |
| 17) Pyrene                  | 19.20 | 202  | 25530    | 1.050  | ng/ul# | 80       |
| 18) Benzo(a)anthracene      | 20.96 | 228  | 12943    | 0.499  | ng/ul# | 84       |
| 19) Chrysene                | 21.01 | 228  | 13408    | 0.502  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.54 | 252  | 16453m   | 0.566  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.58 | 252  | 6913m    | 0.221  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.11 | 252  | 12462    | 0.429  | ng/ul# | 78       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 8189     | 0.225  | ng/ul# | 73       |
| 25) Dibenzo(a,h)anthracene  | 25.52 | 278  | 2084     | 0.070  | ng/ul# | 93       |
| 26) Benzo(a,h,i)perylene    | 26.20 | 276  | 7895     | 0.251  | ng/ul# | 93       |

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

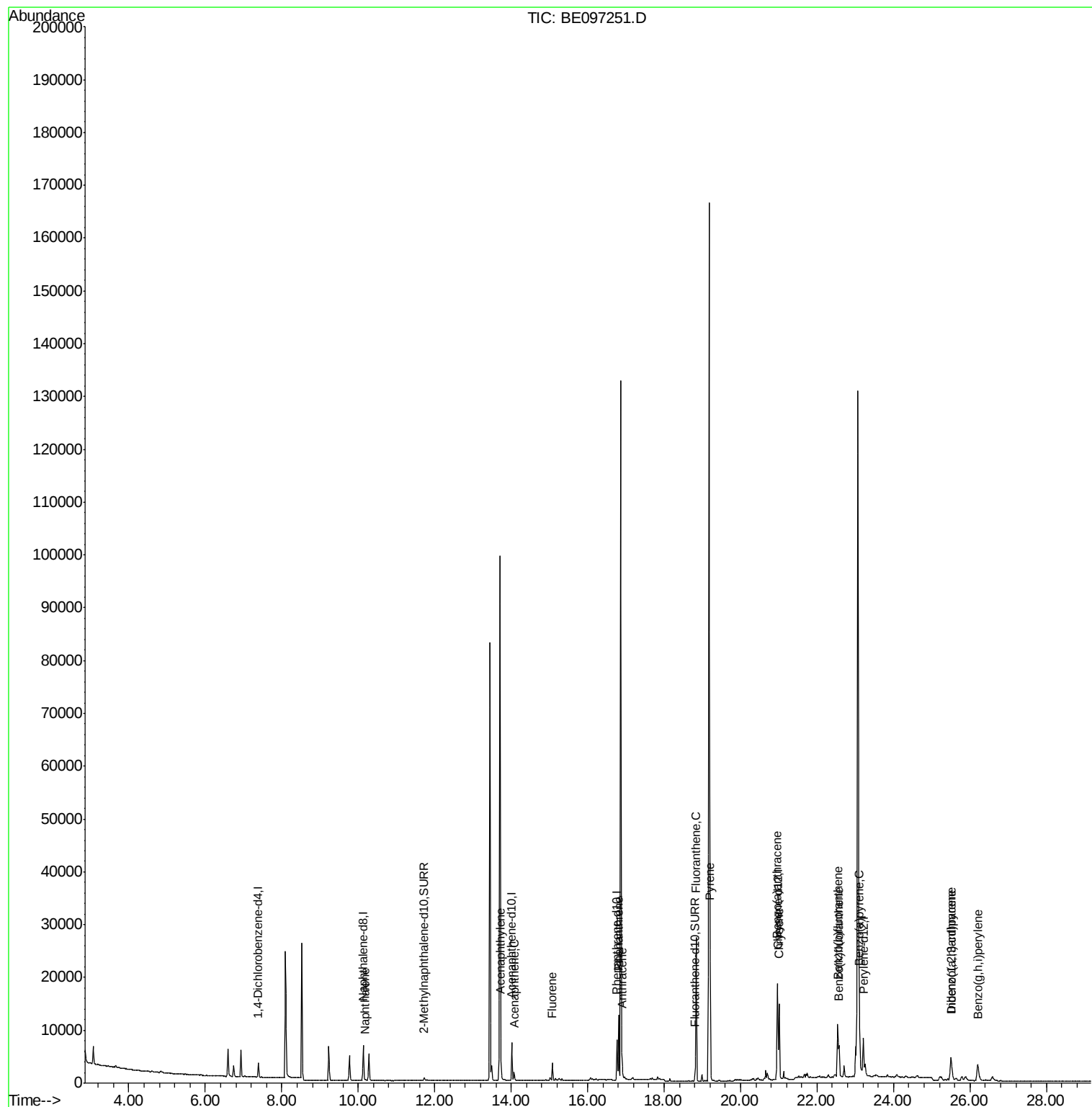
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE080918\  
Data File : BE097251.D  
Acq On : 9 Aug 2018 15:15  
Operator : SJ/JU  
Sample : J4268-03DL 2X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

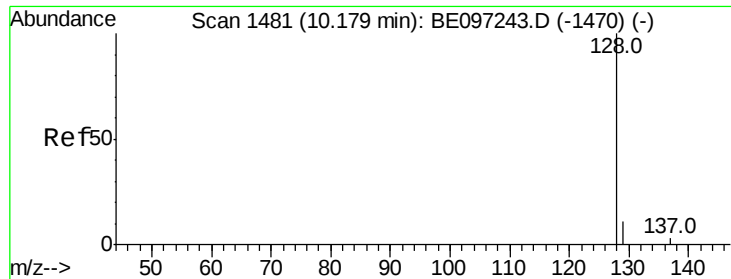
Instrument :  
BNA\_E  
ClientSampleId :  
C0AA5DL

Quant Time: Aug 09 16:32:31 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE080118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 08 23:25:58 2018  
Response via : Initial Calibration

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#3

Naphthalene

Concen: 0.025 ng/ul

RT: 10.18 min Scan# 1480

Delta R.T. -0.00 min

Lab File: BE097251.D

Acq: 9 Aug 2018 15:15

Instrument :

BNA\_E

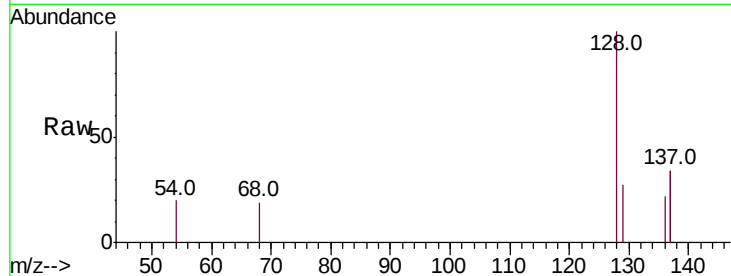
ClientSampleId :

C0AA5DL

|             |       |            |
|-------------|-------|------------|
| Tot Ion:128 | Resp: | 414        |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 129         | 26.6  | 11.3 16.9# |
| 127         | 0.0   | 4.0 6.0#   |

Manual Integrations  
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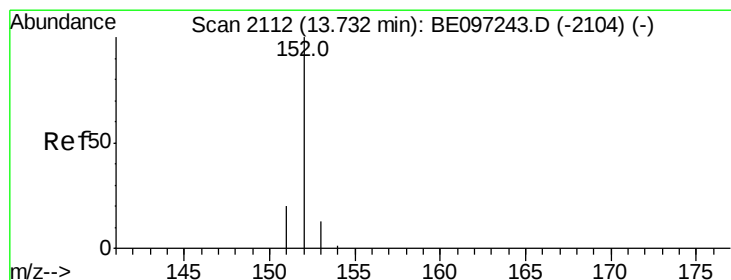
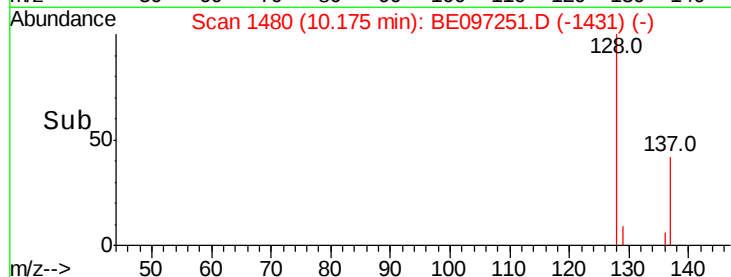
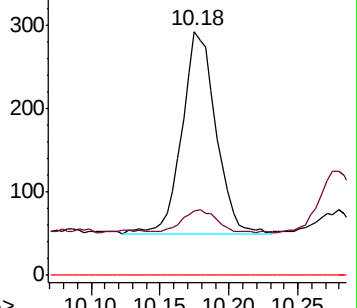
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

Acenaphthylene

Concen: 0.128 ng/ul

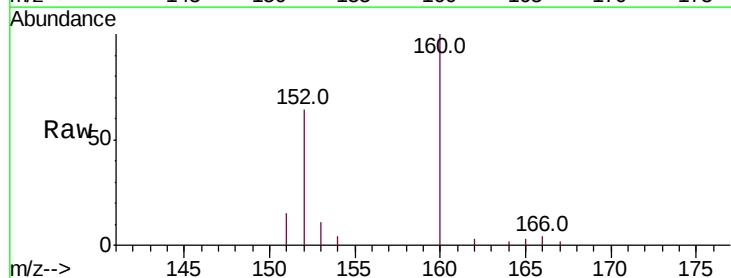
RT: 13.73 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE097251.D

Acq: 9 Aug 2018 15:15

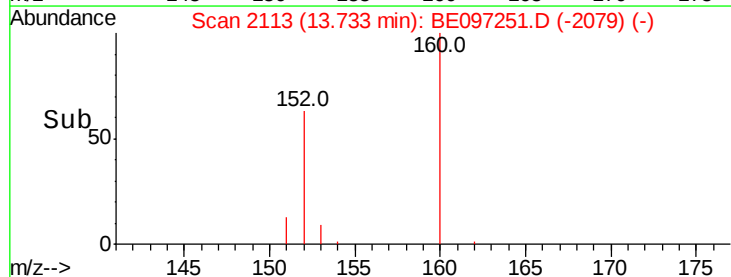
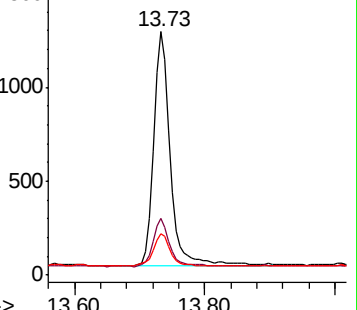
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 2201      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 23.1  | 17.1 25.7 |
| 153         | 17.1  | 12.8 19.2 |

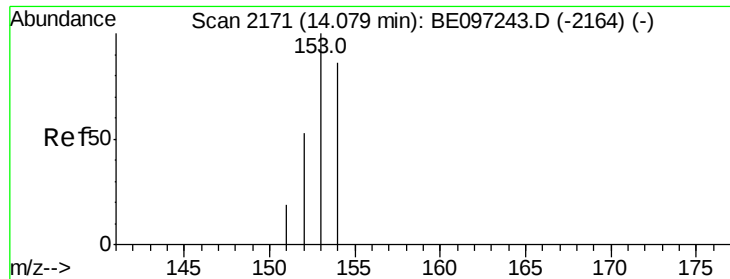


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#8

Acenaphthene

Concen: 0.069 ng/ul

RT: 14.08 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BE097251.D

Acq: 9 Aug 2018 15:15

Instrument :

BNA\_E

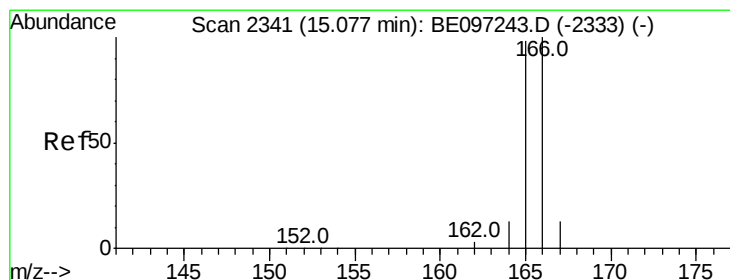
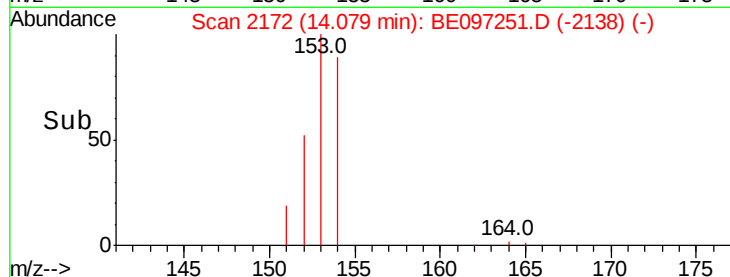
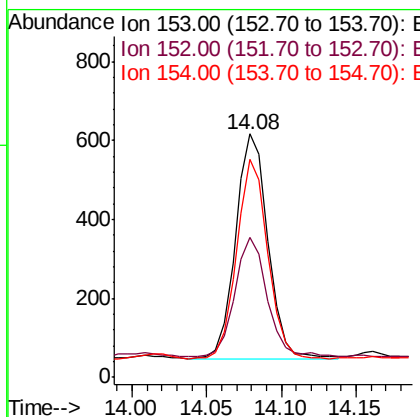
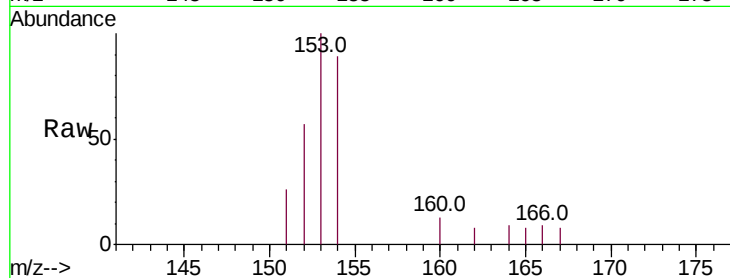
ClientSampleId :

C0AA5DL

|             |       |            |
|-------------|-------|------------|
| Tot Ion:153 | Resp: | 857        |
| Ion Ratio   | Lower | Upper      |
| 153         | 100   |            |
| 152         | 57.4  | 36.0 54.0# |
| 154         | 89.5  | 72.0 108.0 |

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#9

Fluorene

Concen: 0.139 ng/ul

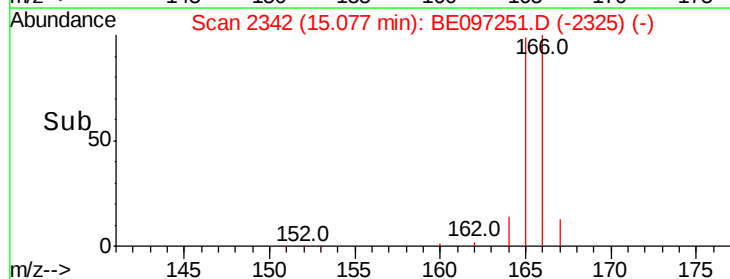
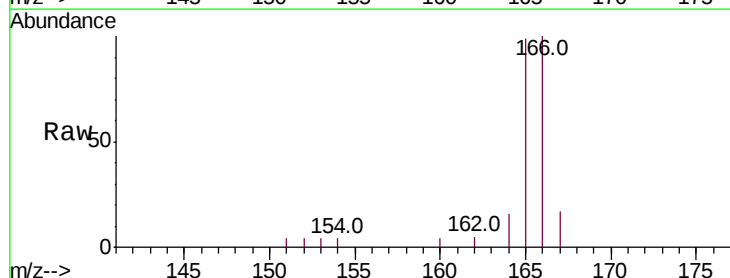
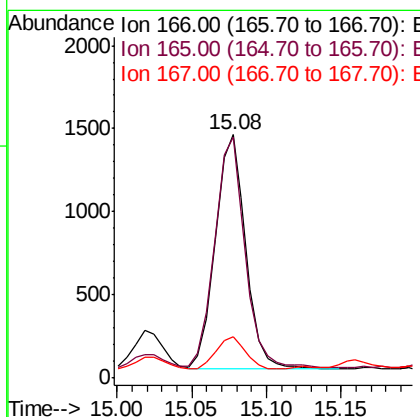
RT: 15.08 min Scan# 2342

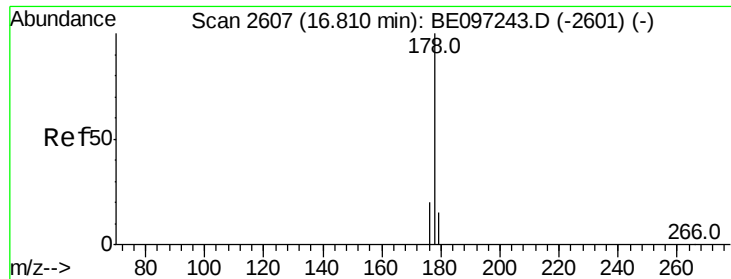
Delta R.T. -0.00 min

Lab File: BE097251.D

Acq: 9 Aug 2018 15:15

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:166 | Resp: | 1994       |
| Ion Ratio   | Lower | Upper      |
| 166         | 100   |            |
| 165         | 99.2  | 73.4 110.2 |
| 167         | 17.1  | 14.6 22.0  |





#12

Phenanthrene

Concen: 0.536 ng/ul

RT: 16.81 min Scan# 2608

Delta R.T. -0.00 min

Lab File: BE097251.D

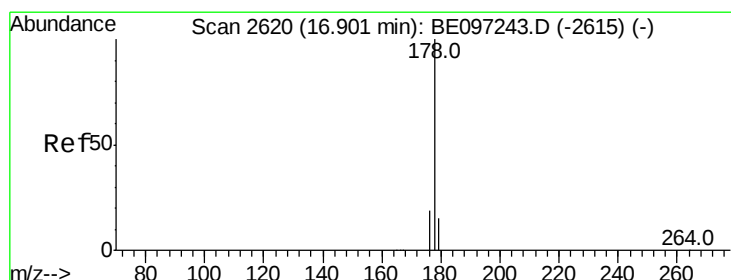
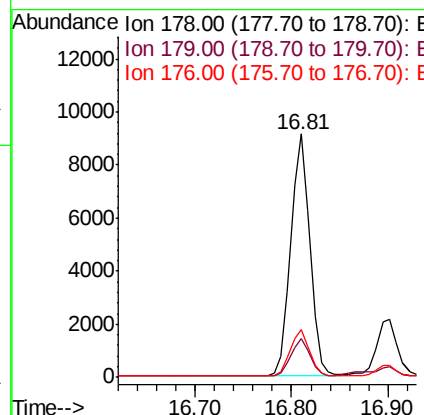
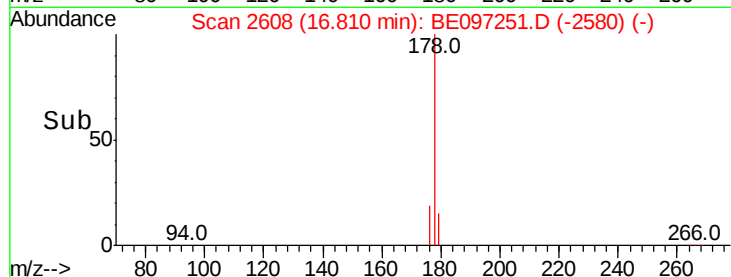
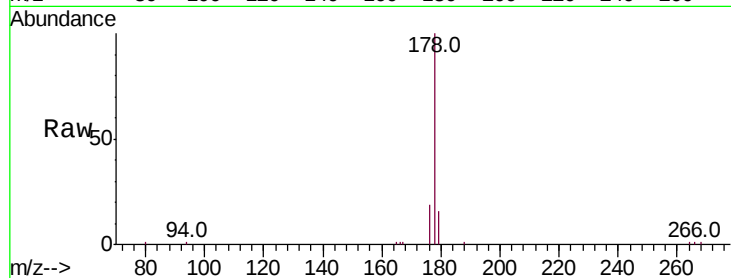
Acq: 9 Aug 2018 15:15

Instrument :  
BNA\_E  
ClientSampleId :  
C0AA5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 18.4  | 27.6# |
| 176     | 19.5  | 13.6  | 20.4  |

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#13

Anthracene

Concen: 0.138 ng/ul

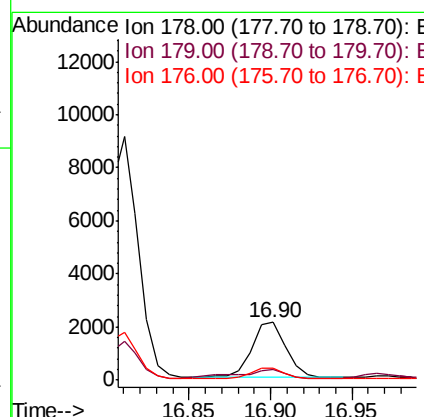
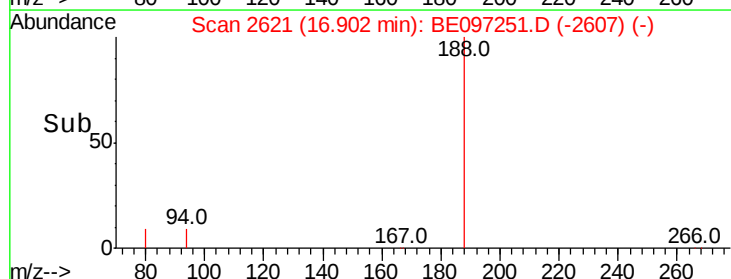
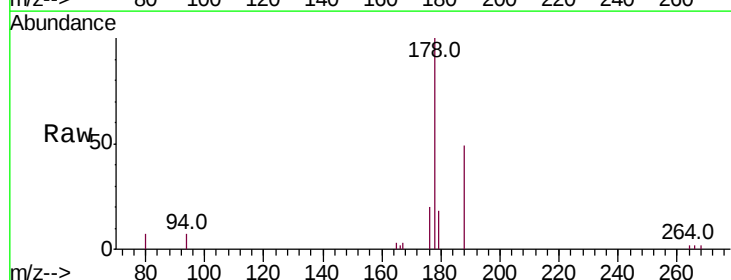
RT: 16.90 min Scan# 2621

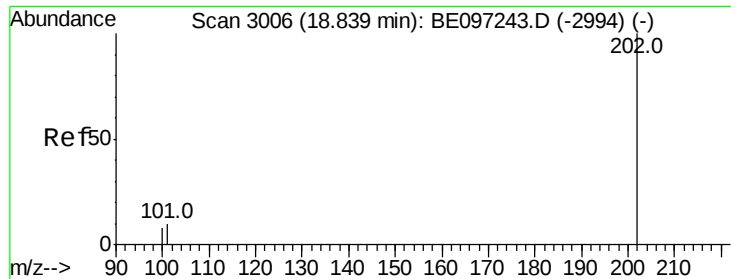
Delta R.T. -0.00 min

Lab File: BE097251.D

Acq: 9 Aug 2018 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.9  | 18.1  | 27.1# |
| 176     | 20.4  | 14.7  | 22.1  |





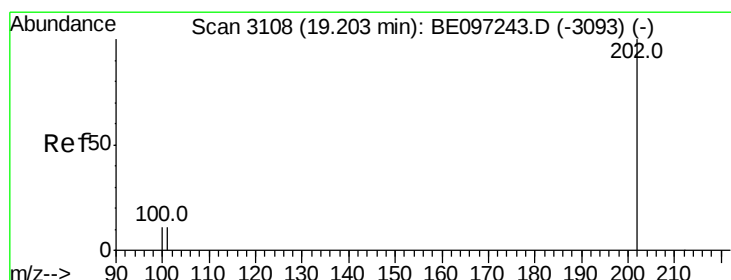
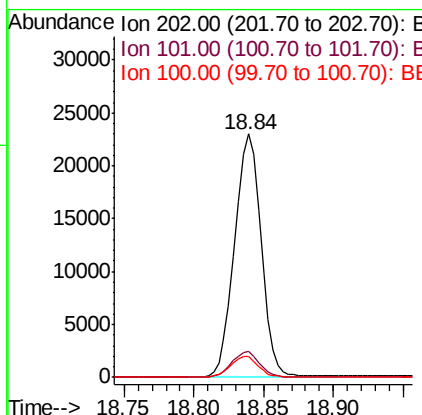
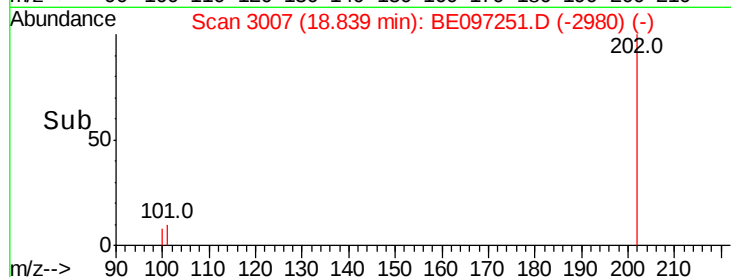
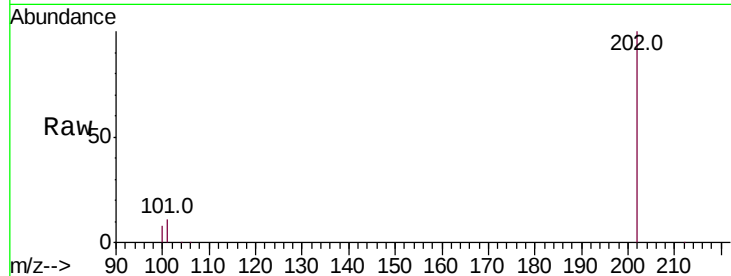
#15  
**Fluoranthene**  
 Concen: 0.975 ng/ul  
 RT: 18.84 min Scan# 3007  
 Delta R.T. -0.00 min  
 Lab File: BE097251.D  
 Acq: 9 Aug 2018 15:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA5DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 30203 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.6  | 0.0   | 30.3  |
| 100       | 8.5   | 0.0   | 39.5  |

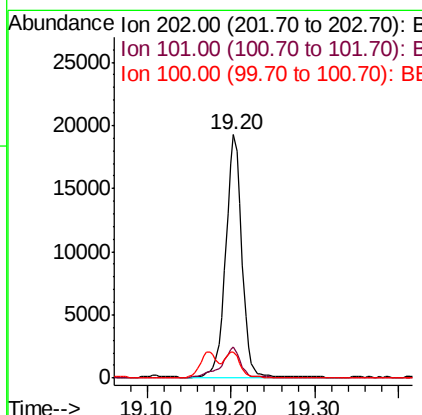
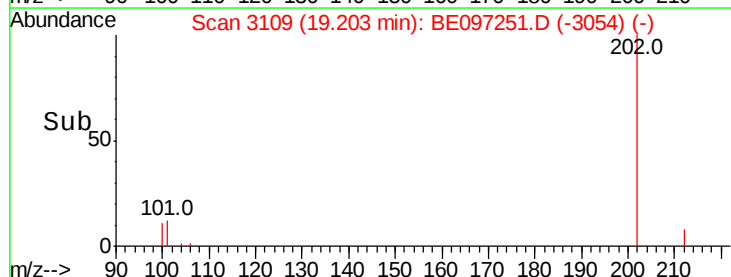
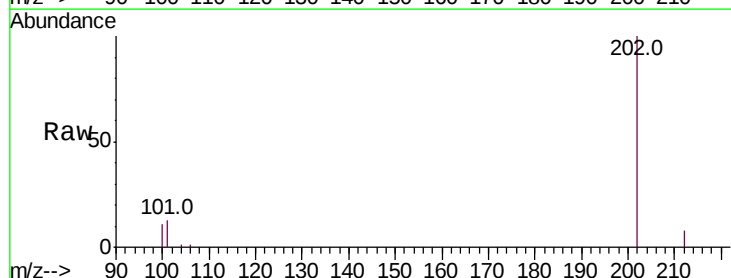
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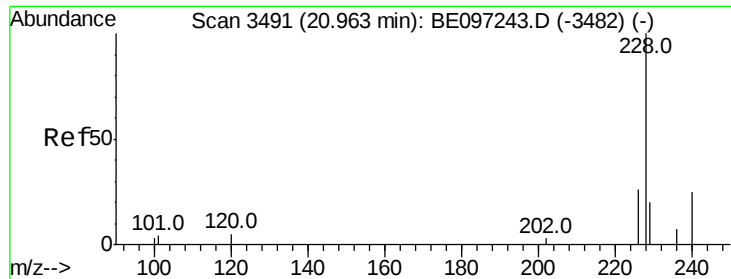
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 8/10/2018 2:50:25 PM



#17  
**Pyrene**  
 Concen: 1.050 ng/ul  
 RT: 19.20 min Scan# 3109  
 Delta R.T. -0.00 min  
 Lab File: BE097251.D  
 Acq: 9 Aug 2018 15:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 25530 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.7  | 18.2  | 27.4# |
| 100       | 10.8  | 15.6  | 23.4# |





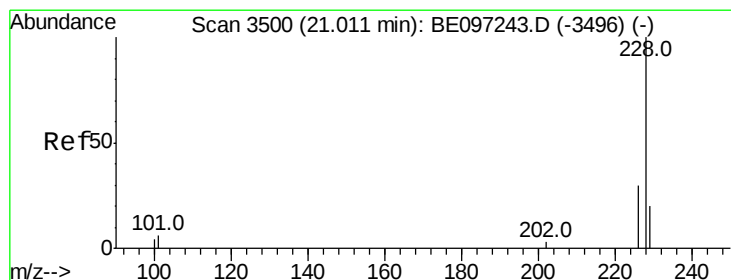
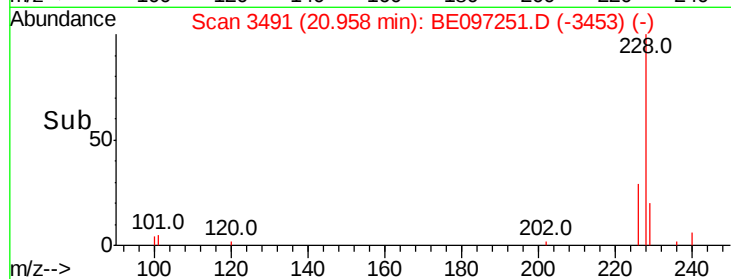
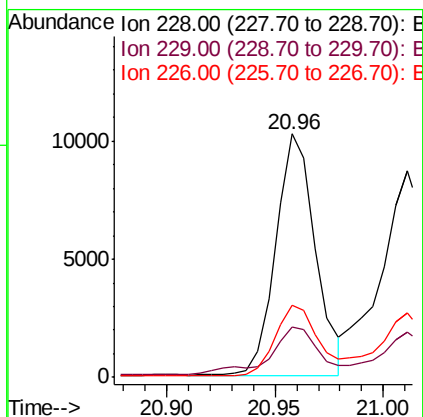
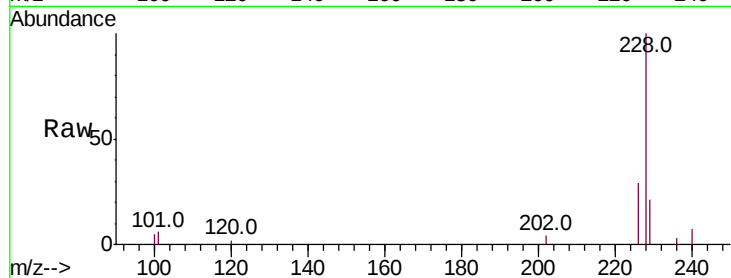
#18  
Benzo(a)anthracene  
Concen: 0.499 ng/ul  
RT: 20.96 min Scan# 3491  
Delta R.T. -0.00 min  
Lab File: BE097251.D  
Acq: 9 Aug 2018 15:15

Instrument :  
BNA\_E  
ClientSampleId :  
C0AA5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.7  | 22.8  | 34.2# |
| 226     | 29.5  | 17.0  | 25.6# |

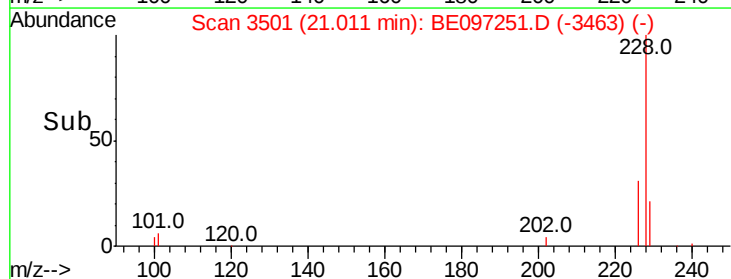
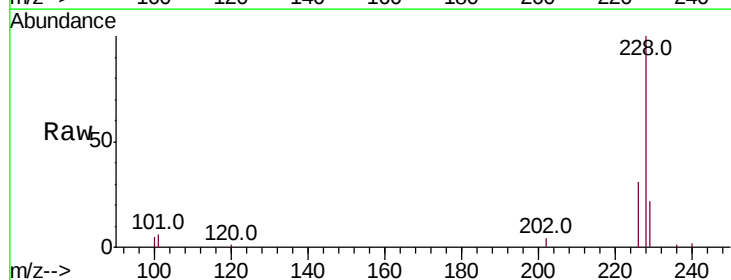
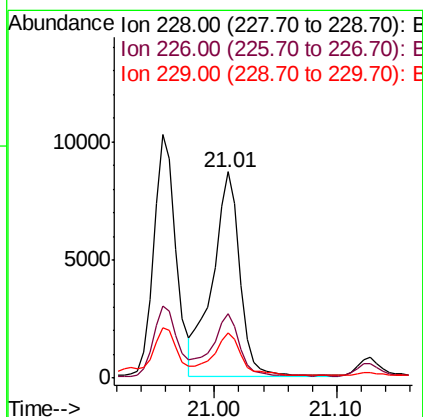
Manual Integrations  
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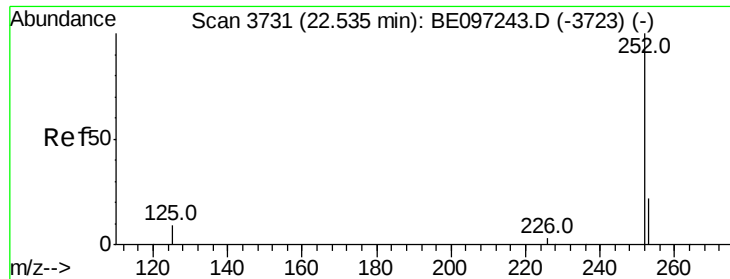
Sohil  
8/10/2018 2:50:25 PM



#19  
Chrysene  
Concen: 0.502 ng/ul  
RT: 21.01 min Scan# 3501  
Delta R.T. -0.00 min  
Lab File: BE097251.D  
Acq: 9 Aug 2018 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.4  | 23.4  | 35.0  |
| 229     | 21.9  | 17.7  | 26.5  |





#21

Benzo(b)fluoranthene

Concen: 0.566 ng/ul m

RT: 22.54 min Scan# 3732

Delta R.T. 0.00 min

Lab File: BE097251.D

Acq: 9 Aug 2018 15:15

Instrument :

BNA\_E

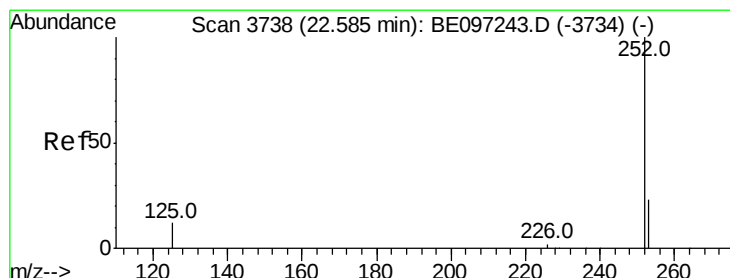
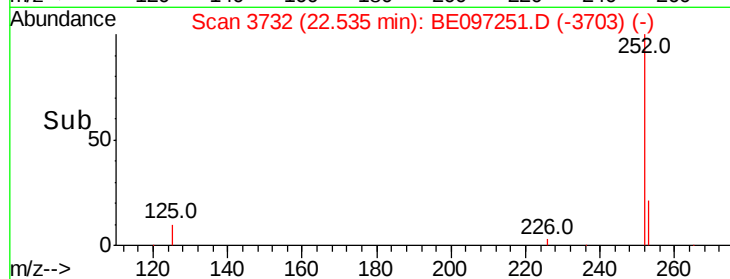
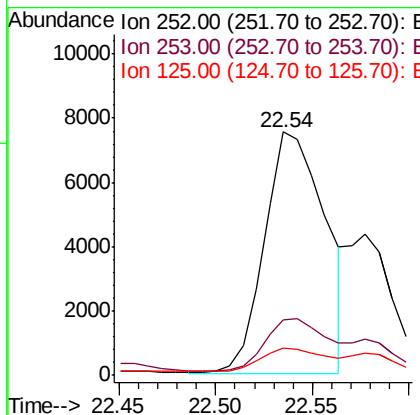
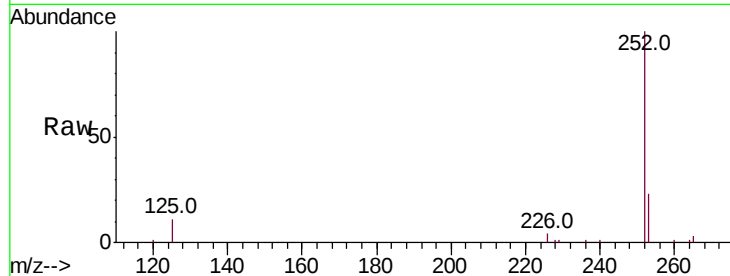
ClientSampleId :

C0AA5DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 16453 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.9  | 0.0   | 64.2  |
| 125       | 11.2  | 0.0   | 35.0  |

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#22

Benzo(k)fluoranthene

Concen: 0.221 ng/ul m

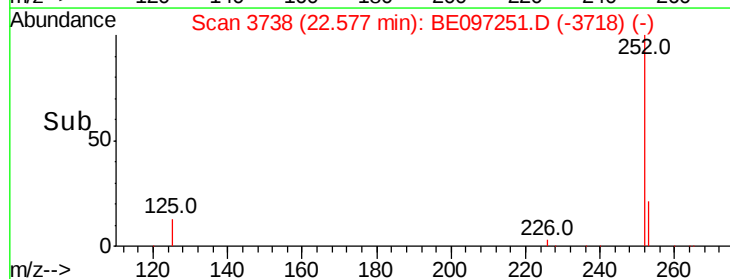
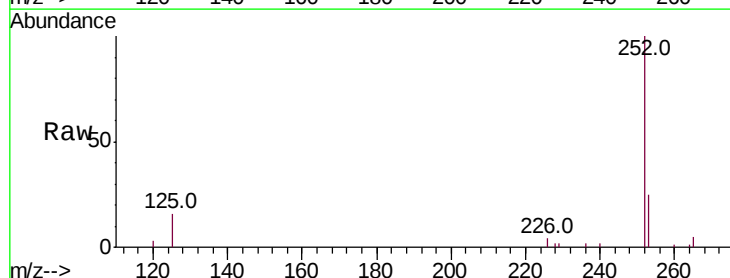
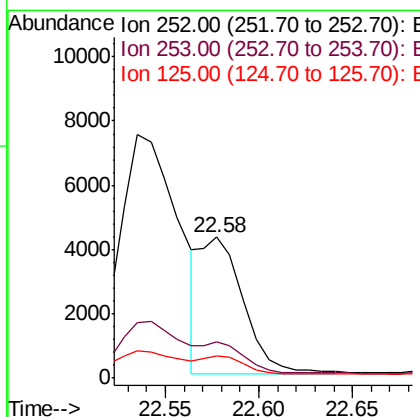
RT: 22.58 min Scan# 3738

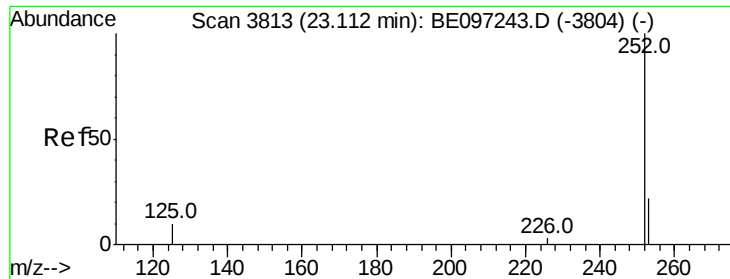
Delta R.T. -0.01 min

Lab File: BE097251.D

Acq: 9 Aug 2018 15:15

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 6913 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 25.3  | 24.5  | 36.7 |
| 125       | 15.7  | 13.7  | 20.5 |





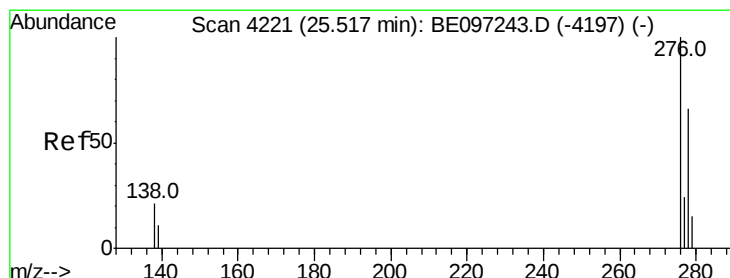
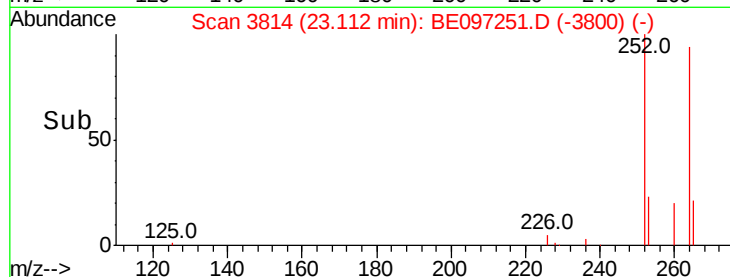
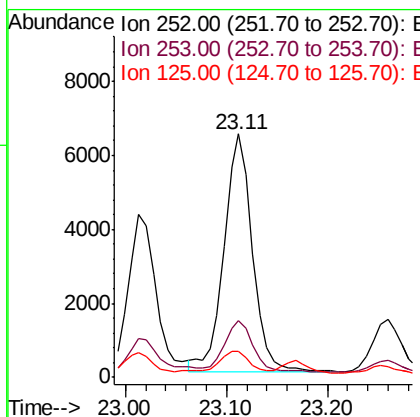
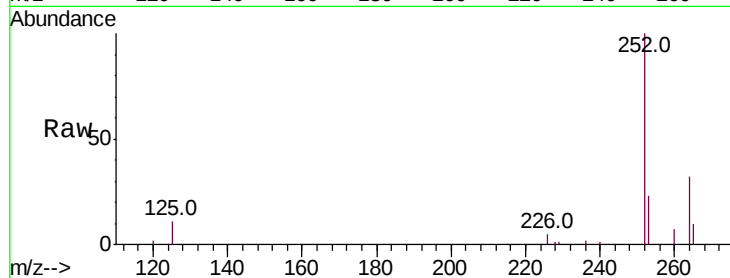
#23  
Benzo(a)pyrene  
Concen: 0.429 ng/ul  
RT: 23.11 min Scan# 3814  
Delta R.T. 0.00 min  
Lab File: BE097251.D  
Acq: 9 Aug 2018 15:15

Instrument :  
BNA\_E  
ClientSampleId :  
C0AA5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 28.5  | 42.7# |
| 125     | 10.7  | 18.1  | 27.1# |

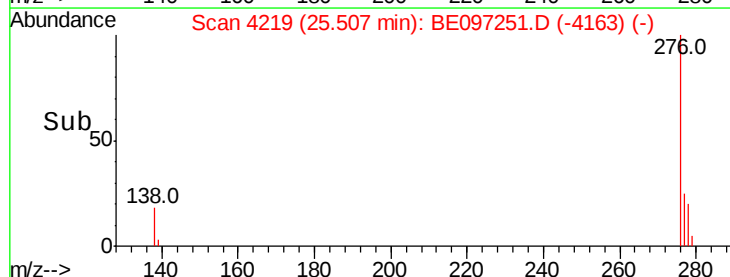
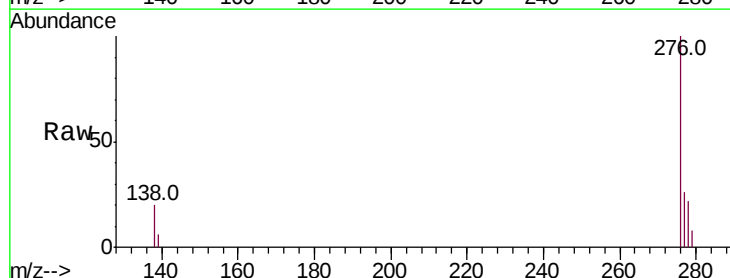
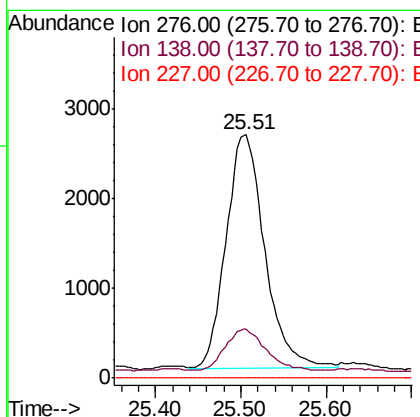
Manual Integrations  
APPROVED

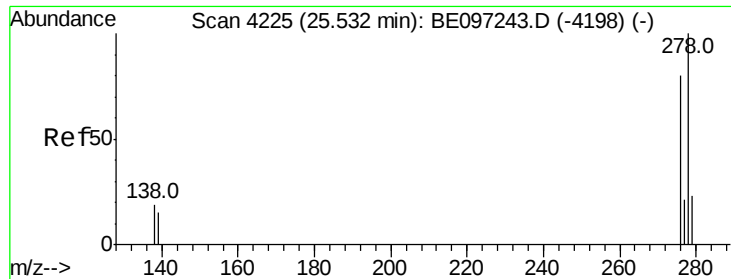
Sohil  
8/10/2018 2:50:25 PM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.225 ng/ul  
RT: 25.51 min Scan# 4219  
Delta R.T. -0.00 min  
Lab File: BE097251.D  
Acq: 9 Aug 2018 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.1  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |





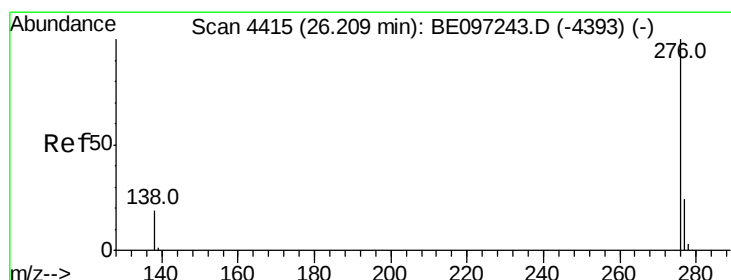
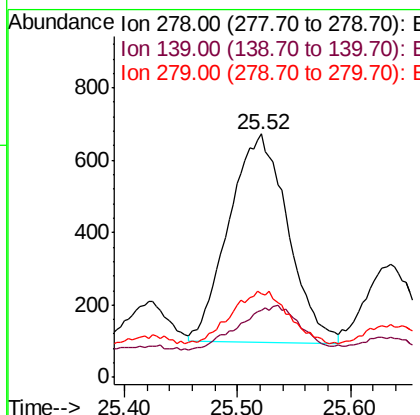
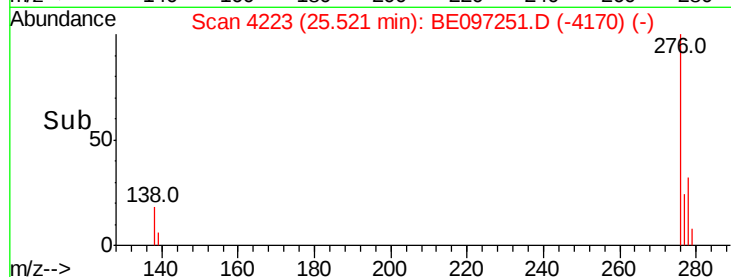
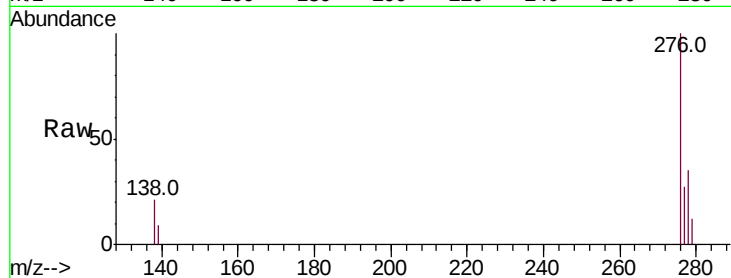
#25  
Dibenzo(a,h)anthracene  
Concen: 0.070 ng/ul  
RT: 25.52 min Scan# 4223  
Delta R.T. -0.01 min  
Lab File: BE097251.D  
Acq: 9 Aug 2018 15:15

Instrument :  
BNA\_E  
ClientSampled :  
C0AA5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 27.3  | 17.4  | 26.0# |
| 279     | 34.3  | 25.9  | 38.9  |

Manual Integrations  
APPROVED

Sohil  
8/10/2018 2:50:25 PM



#26  
Benzo(g,h,i)perylene  
Concen: 0.251 ng/ul  
RT: 26.20 min Scan# 4414  
Delta R.T. -0.00 min  
Lab File: BE097251.D  
Acq: 9 Aug 2018 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.3  | 21.8  | 32.8# |
| 277     | 27.0  | 20.5  | 30.7  |

