

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE080818\  
 Data File : BE097238.D  
 Acq On : 8 Aug 2018 16:55  
 Operator : SJ/JU  
 Sample : J4268-09  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA1

Manual Integrations  
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Sohil  
 8/9/2018 4:43:16 PM

Quant Time: Aug 09 01:12:37 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  | 1235     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.13 | 136  | 6613     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.02 | 164  | 3990     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.77 | 188  | 9269m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 20.98 | 240  | 9511m    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.21 | 264  | 8979m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.72 | 152  | 2005     | 0.19   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.81 | 212  | 5575m    | 0.17   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.18 | 128  | 866      | 0.054  | ng/ul# | 85       |
| 8) Acenaphthene             | 14.08 | 153  | 259      | 0.021  | ng/ul# | 88       |
| 9) Fluorene                 | 15.08 | 166  | 320      | 0.022  | ng/ul# | 90       |
| 12) Phenanthrene            | 16.81 | 178  | 8139m    | 0.344  | ng/ul  |          |
| 13) Anthracene              | 16.90 | 178  | 1984m    | 0.090  | ng/ul  |          |
| 15) Fluoranthene            | 18.84 | 202  | 27057m   | 0.866  | ng/ul  |          |
| 17) Pyrene                  | 19.21 | 202  | 24953    | 0.979  | ng/ul# | 79       |
| 18) Benzo(a)anthracene      | 20.96 | 228  | 13823    | 0.509  | ng/ul# | 86       |
| 19) Chrysene                | 21.01 | 228  | 16147    | 0.577  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.54 | 252  | 22018m   | 0.900  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.58 | 252  | 6287m    | 0.238  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.11 | 252  | 15865    | 0.648  | ng/ul# | 80       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.50 | 276  | 10362    | 0.338  | ng/ul# | 72       |
| 25) Dibenzo(a,h)anthracene  | 25.52 | 278  | 2503     | 0.100  | ng/ul# | 92       |
| 26) Benzo(g,h,i)perylene    | 26.21 | 276  | 9755     | 0.368  | ng/ul# | 93       |

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

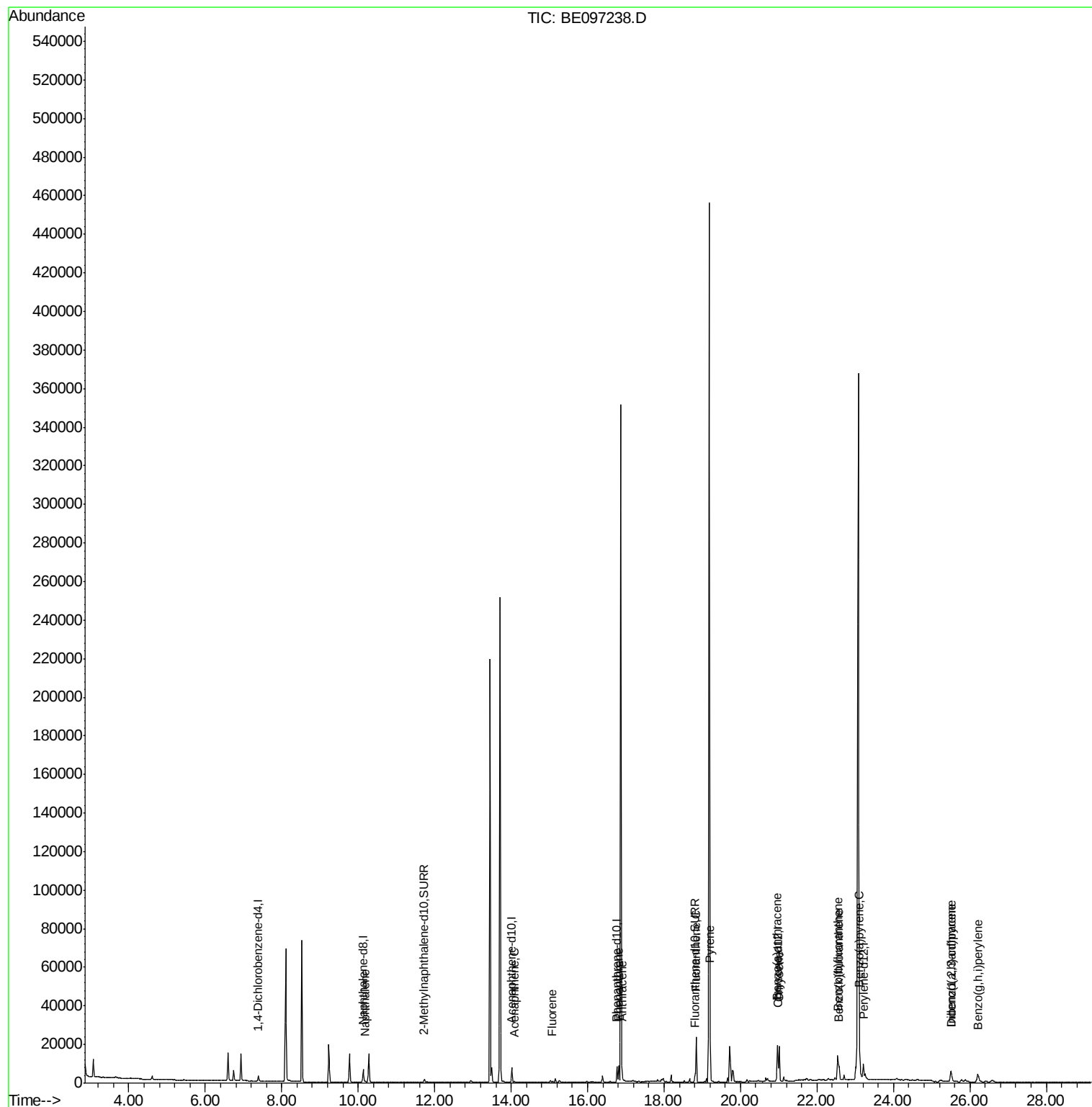
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE080818\  
Data File : BE097238.D  
Acq On : 8 Aug 2018 16:55  
Operator : SJ/JU  
Sample : J4268-09  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

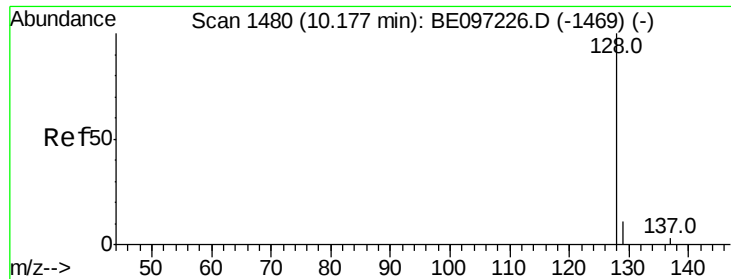
Instrument :  
BNA\_E  
ClientSampleId :  
C0AA1

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Quant Time: Aug 09 01:12:37 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





#3

Naphthalene

Concen: 0.054 ng/ul

RT: 10.18 min Scan# 1481

Delta R.T. 0.01 min

Lab File: BE097238.D

Acq: 8 Aug 2018 16:55

Instrument :

BNA\_E

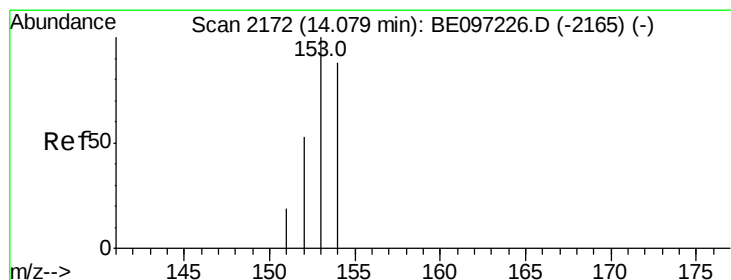
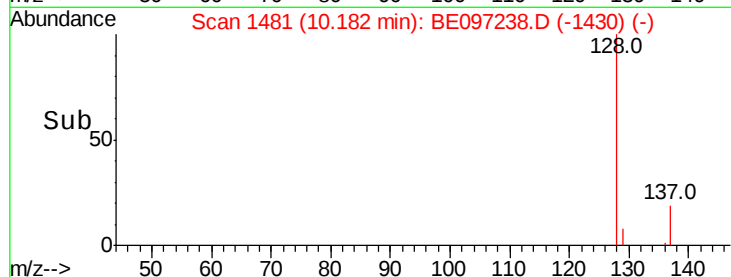
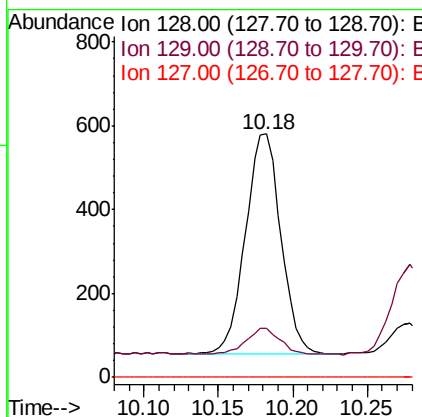
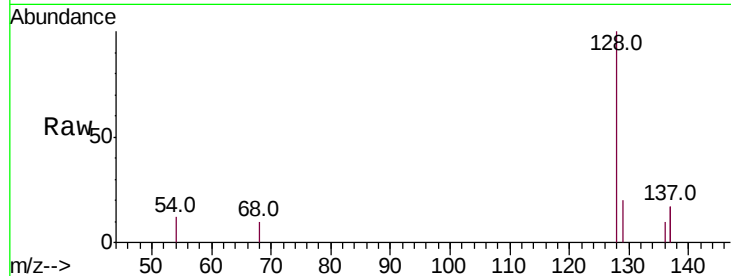
ClientSampleId :

C0AA1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 866   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 20.0  | 11.3  | 16.9# |
| 127       | 0.0   | 4.0   | 6.0#  |

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#8

Acenaphthene

Concen: 0.021 ng/ul

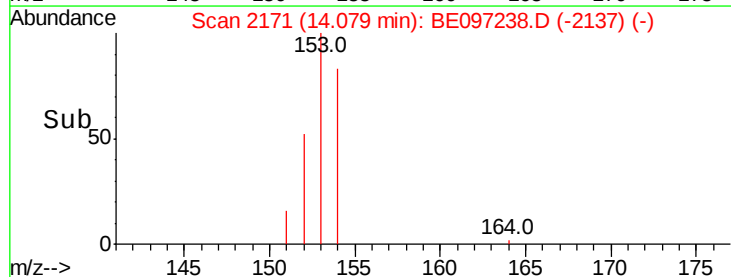
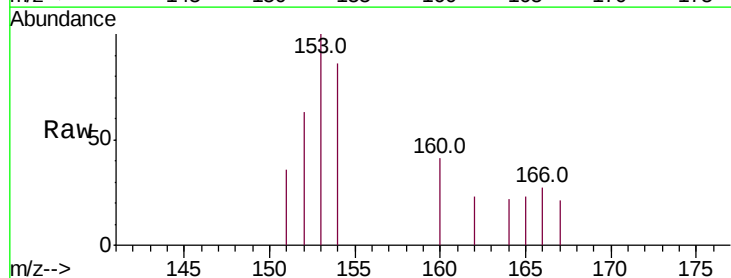
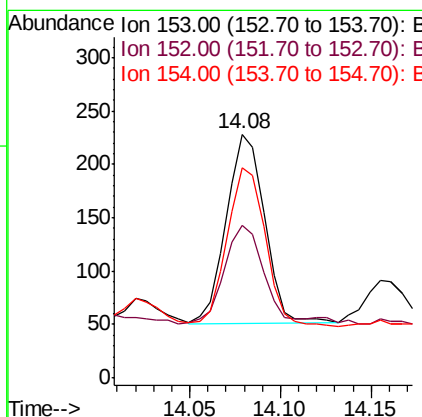
RT: 14.08 min Scan# 2171

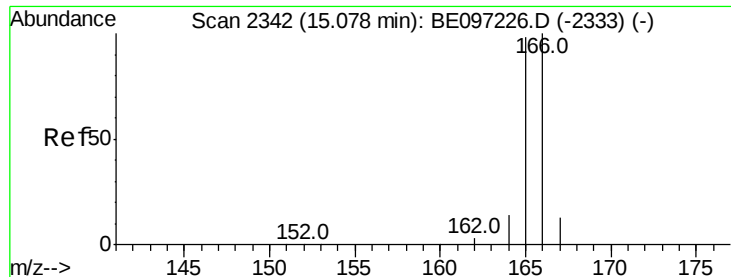
Delta R.T. -0.00 min

Lab File: BE097238.D

Acq: 8 Aug 2018 16:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 259   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 62.7  | 36.0  | 54.0# |
| 154       | 86.4  | 72.0  | 108.0 |





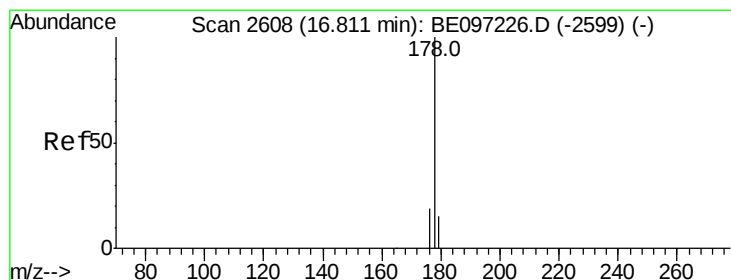
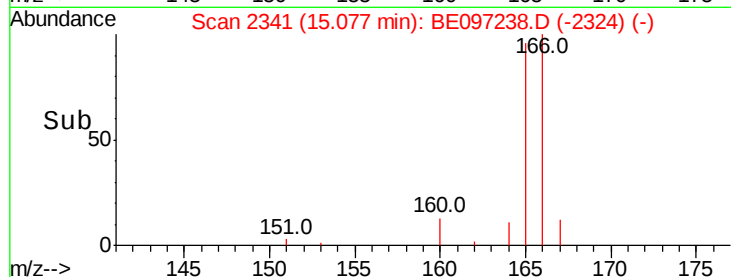
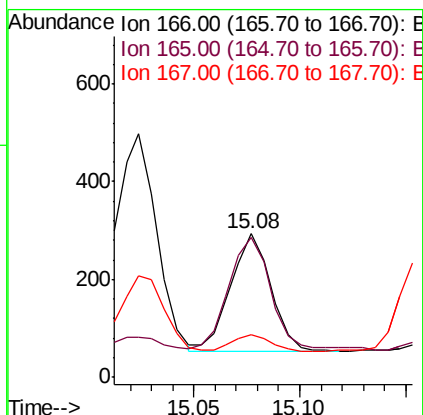
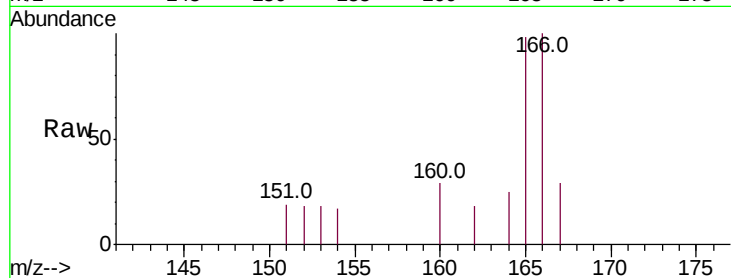
#9  
**Fluorene**  
 Concen: 0.022 ng/ul  
 RT: 15.08 min Scan# 2341  
 Delta R.T. -0.00 min  
 Lab File: BE097238.D  
 Acq: 8 Aug 2018 16:55

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.0  | 73.4  | 110.2 |
| 167     | 29.4  | 14.6  | 22.0  |

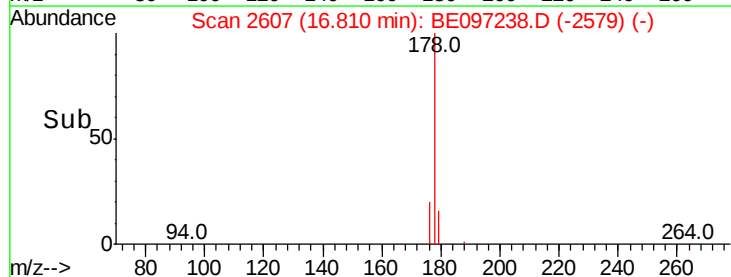
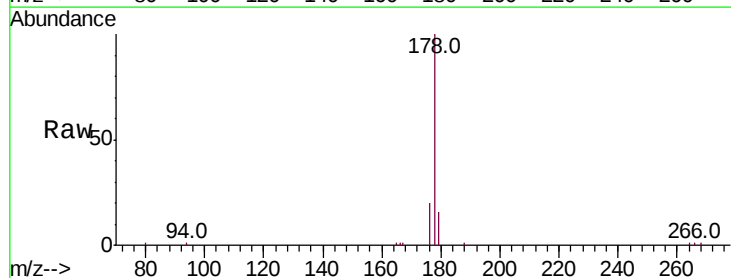
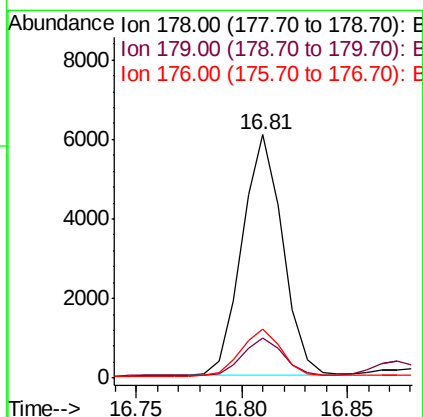
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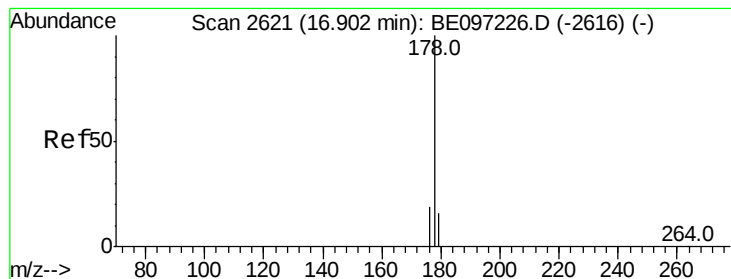
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#12  
**Phenanthrene**  
 Concen: 0.344 ng/ul m  
 RT: 16.81 min Scan# 2607  
 Delta R.T. -0.00 min  
 Lab File: BE097238.D  
 Acq: 8 Aug 2018 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.5  | 18.4  | 27.6  |
| 176     | 20.2  | 13.6  | 20.4  |





#13

Anthracene

Concen: 0.090 ng/ul m

RT: 16.90 min Scan# 2620

Delta R.T. -0.00 min

Lab File: BE097238.D

Acq: 8 Aug 2018 16:55

Instrument :

BNA\_E

ClientSampleId :

C0AA1

Tot Ion:178 Resp: 1984

Ion Ratio Lower Upper

178 100

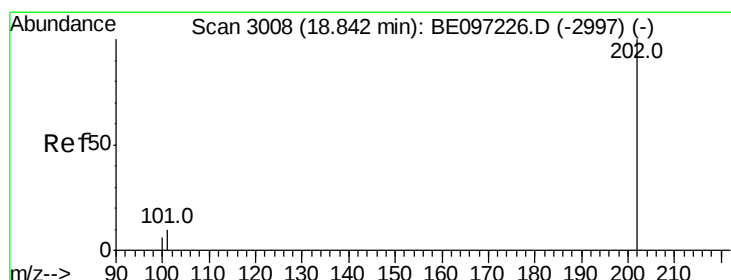
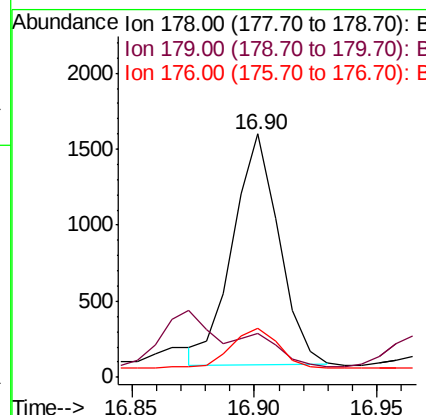
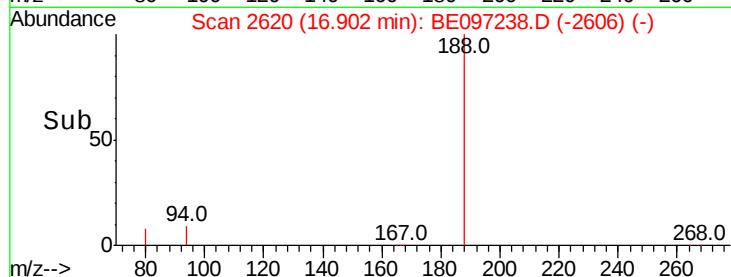
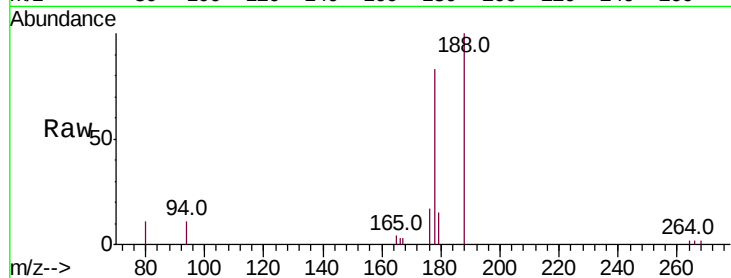
179 18.0 18.1 27.1#

176 20.4 14.7 22.1

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#15

Fluoranthene

Concen: 0.866 ng/ul m

RT: 18.84 min Scan# 3007

Delta R.T. 0.00 min

Lab File: BE097238.D

Acq: 8 Aug 2018 16:55

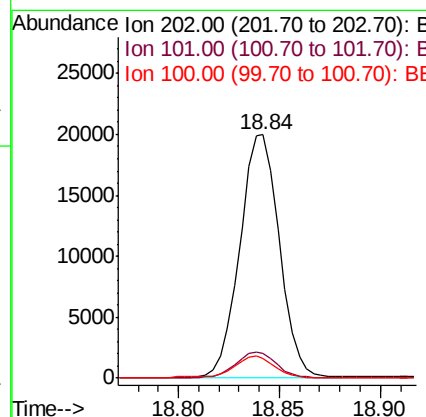
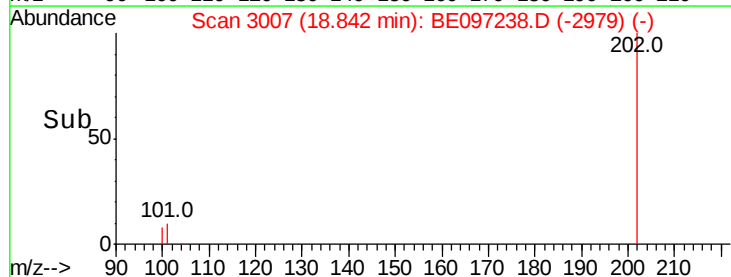
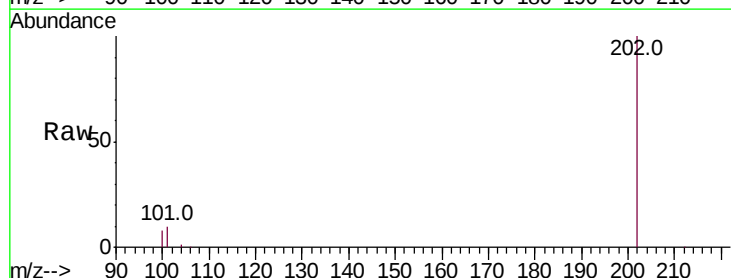
Tgt Ion:202 Resp: 27057

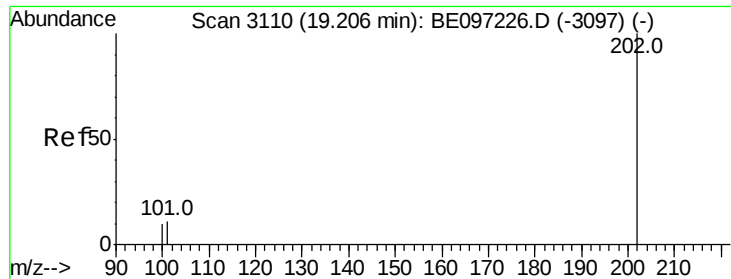
Ion Ratio Lower Upper

202 100

101 10.0 0.0 30.3

100 8.0 0.0 39.5





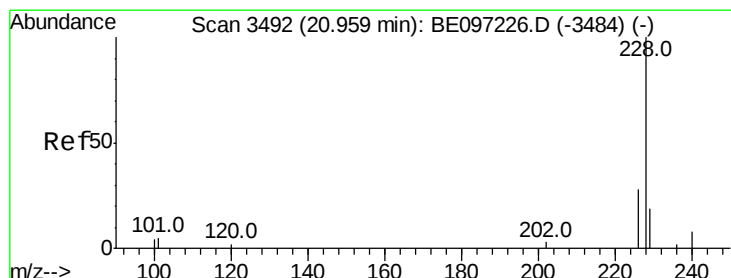
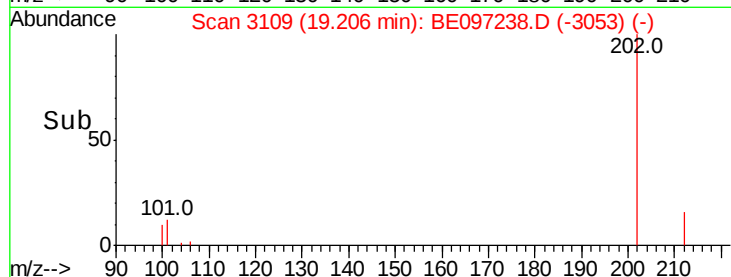
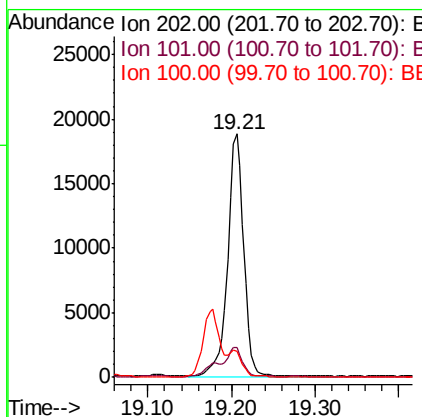
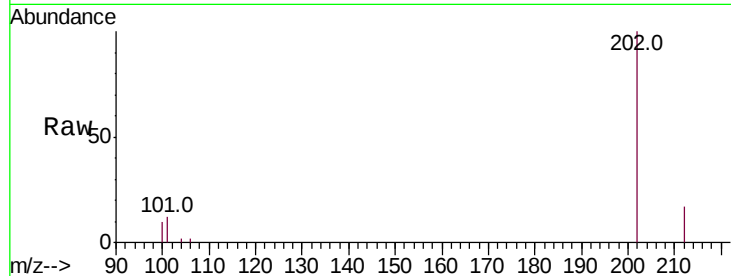
#17  
Pvrene  
Concen: 0.979 ng/ul  
RT: 19.21 min Scan# 3109  
Delta R.T. 0.00 min  
Lab File: BE097238.D  
Acq: 8 Aug 2018 16:55

Instrument :  
BNA\_E  
ClientSampleId :  
C0AA1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.1  | 18.2  | 27.4# |
| 100     | 10.4  | 15.6  | 23.4# |

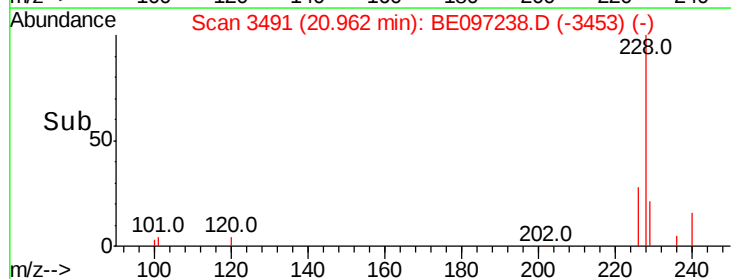
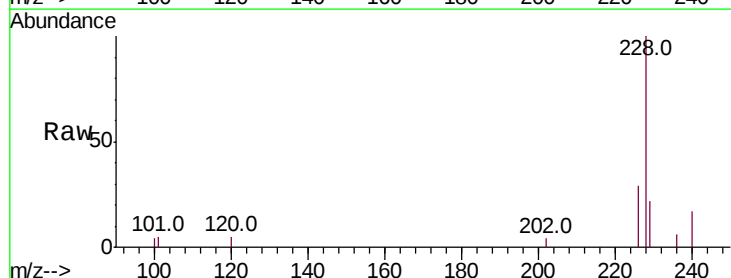
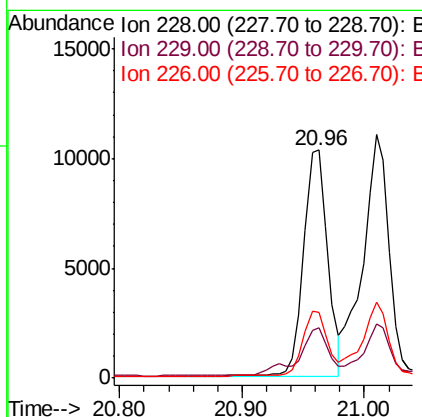
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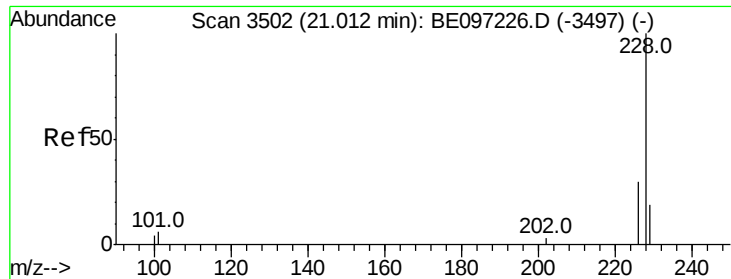
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#18  
Benzo(a)anthracene  
Concen: 0.509 ng/ul  
RT: 20.96 min Scan# 3491  
Delta R.T. 0.00 min  
Lab File: BE097238.D  
Acq: 8 Aug 2018 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.8  | 22.8  | 34.2# |
| 226     | 28.6  | 17.0  | 25.6# |





#19

Chrysene

Concen: 0.577 ng/ul

RT: 21.01 min Scan# 3500

Delta R.T. -0.00 min

Lab File: BE097238.D

Acq: 8 Aug 2018 16:55

Instrument :

BNA\_E

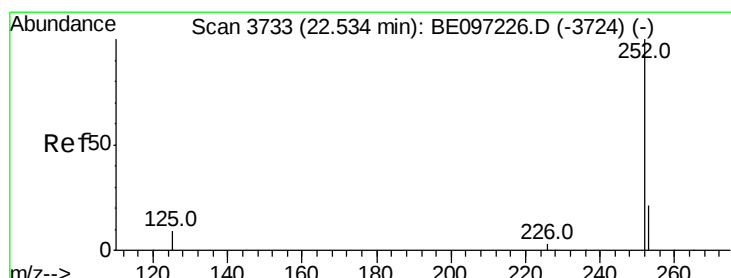
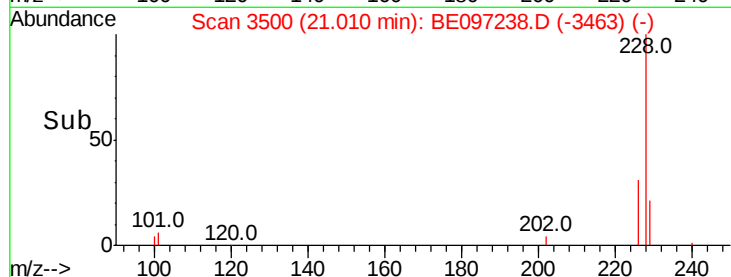
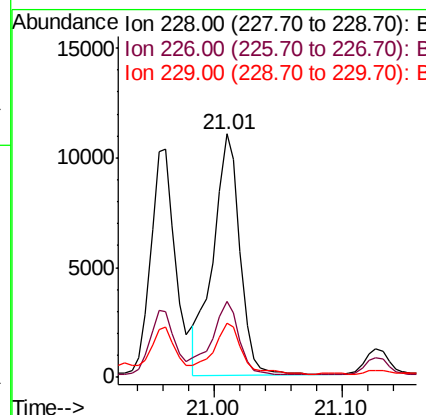
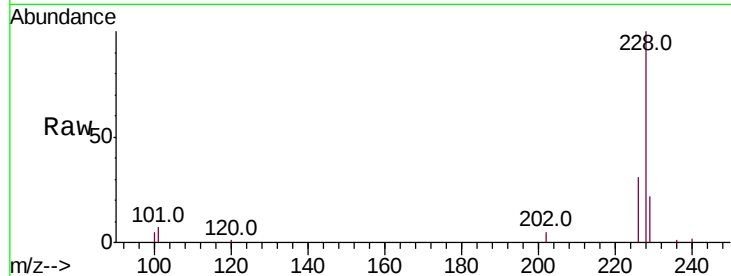
ClientSampled :

C0AA1

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 16147 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 31.4    | 23.4  | 35.0  |
| 229 22.1    | 17.7  | 26.5  |

Manual Integrations  
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#21

Benzo(b)fluoranthene

Concen: 0.900 ng/ul m

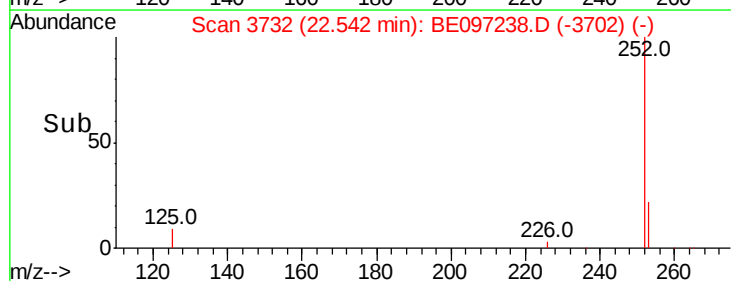
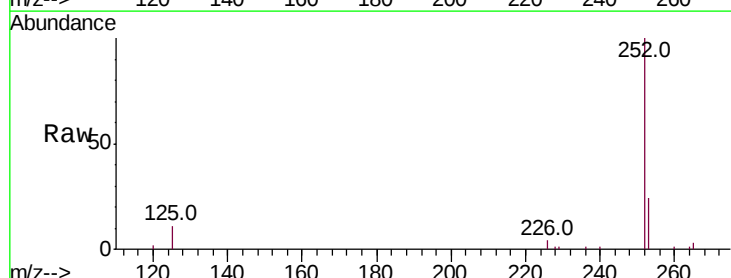
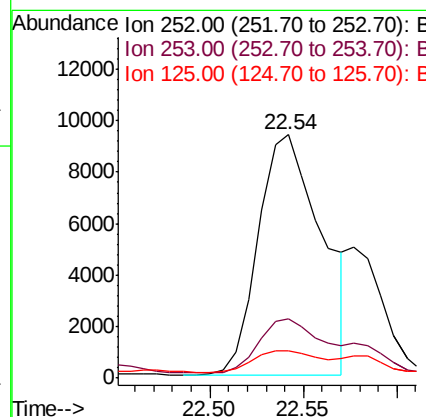
RT: 22.54 min Scan# 3732

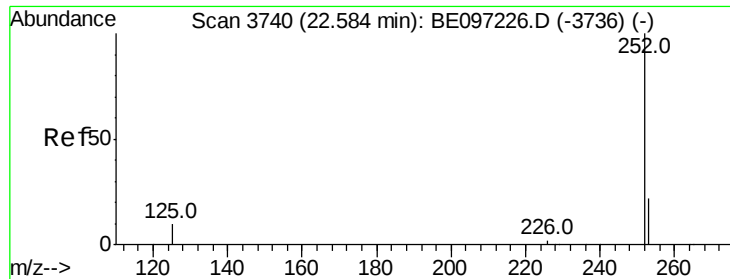
Delta R.T. 0.01 min

Lab File: BE097238.D

Acq: 8 Aug 2018 16:55

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:252 | Resp: | 22018 |
| Ion Ratio   | Lower | Upper |
| 252 100     |       |       |
| 253 24.1    | 0.0   | 64.2  |
| 125 11.1    | 0.0   | 35.0  |





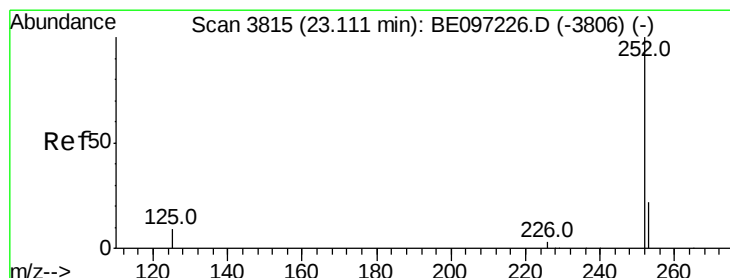
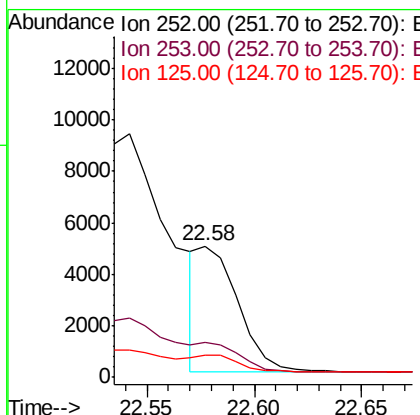
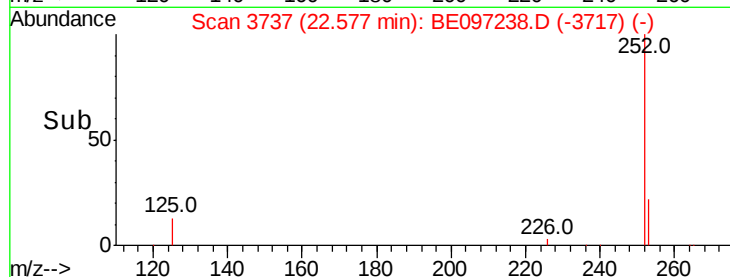
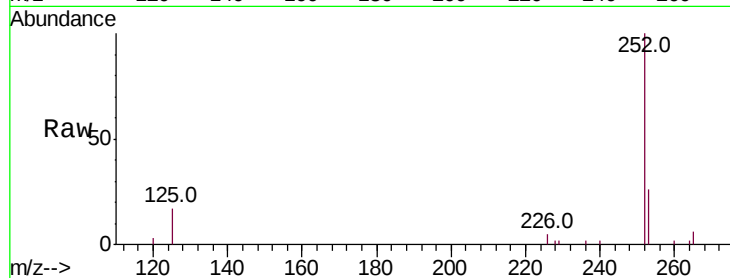
#22  
Benzo(k)fluoranthene  
Concen: 0.238 ng/ul m  
RT: 22.58 min Scan# 3737  
Delta R.T. -0.01 min  
Lab File: BE097238.D  
Acq: 8 Aug 2018 16:55

Instrument :  
BNA\_E  
ClientSampleId :  
C0AA1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.4  | 24.5  | 36.7  |
| 125     | 16.9  | 13.7  | 20.5  |

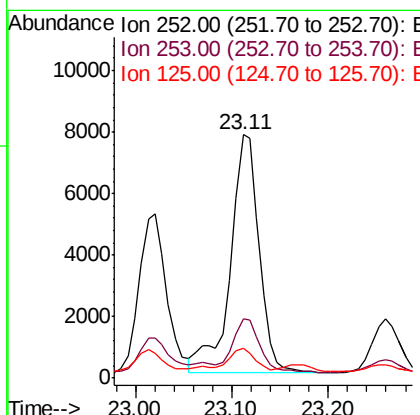
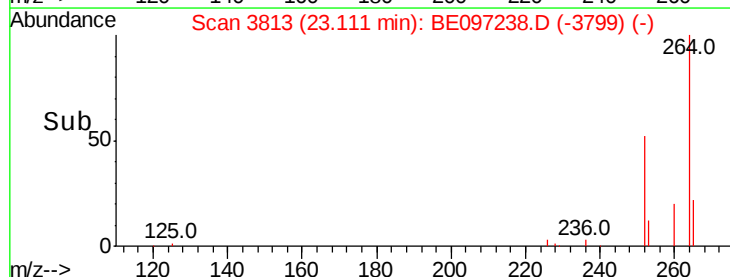
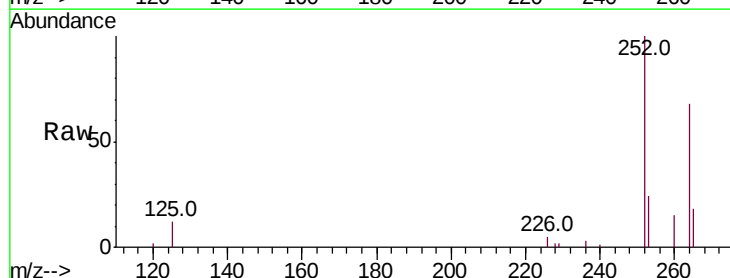
Manual Integrations  
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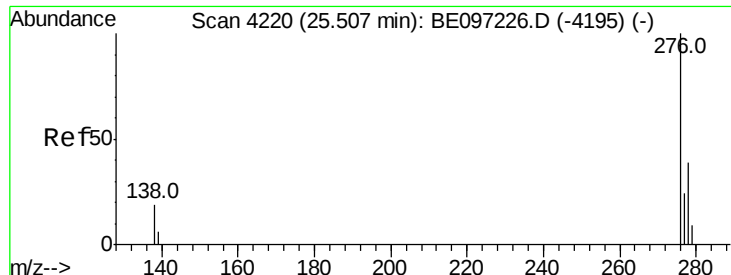
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#23  
Benzo(a)pyrene  
Concen: 0.648 ng/ul  
RT: 23.11 min Scan# 3813  
Delta R.T. 0.00 min  
Lab File: BE097238.D  
Acq: 8 Aug 2018 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 28.5  | 42.7# |
| 125     | 12.5  | 18.1  | 27.1# |





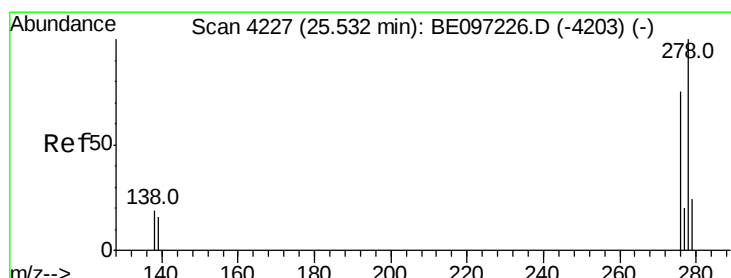
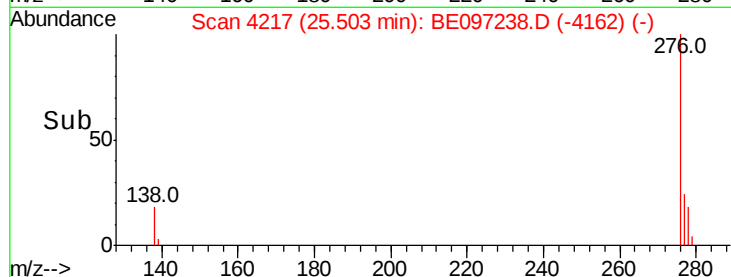
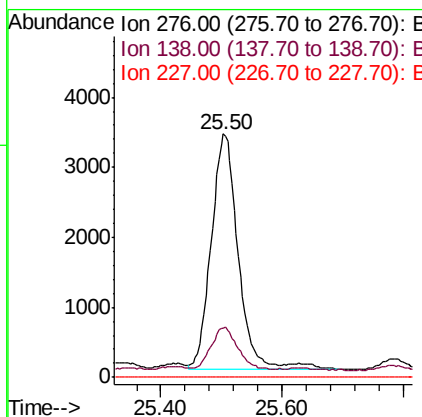
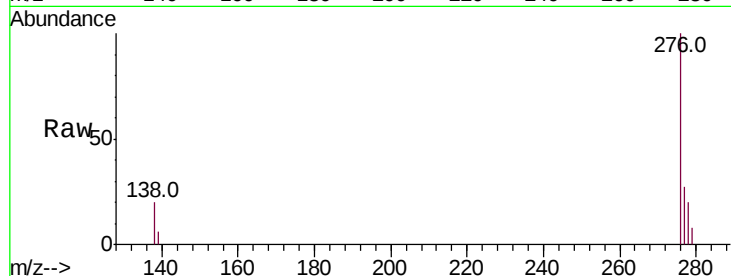
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.338 ng/uL  
 RT: 25.50 min Scan# 4217  
 Delta R.T. -0.00 min  
 Lab File: BE097238.D  
 Acq: 8 Aug 2018 16:55

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.3  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |

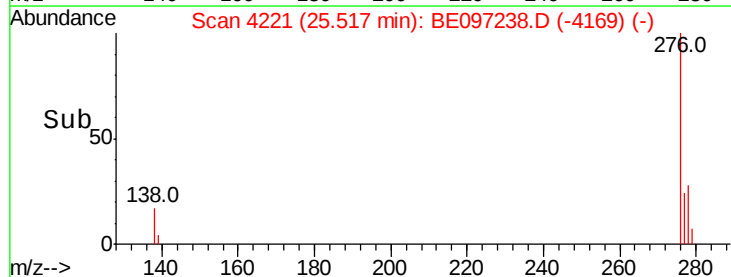
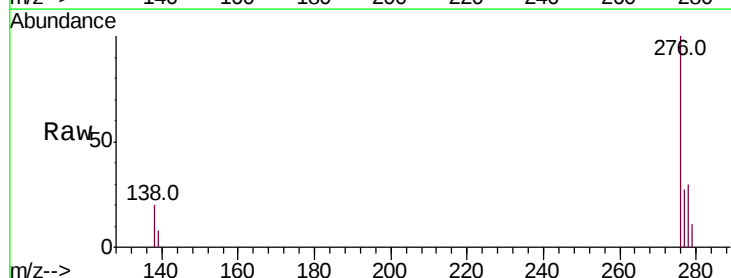
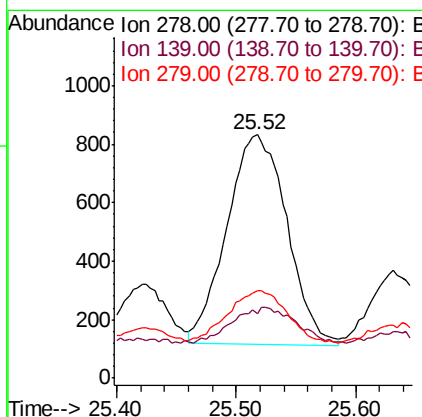
Manual Integrations  
 APPROVED

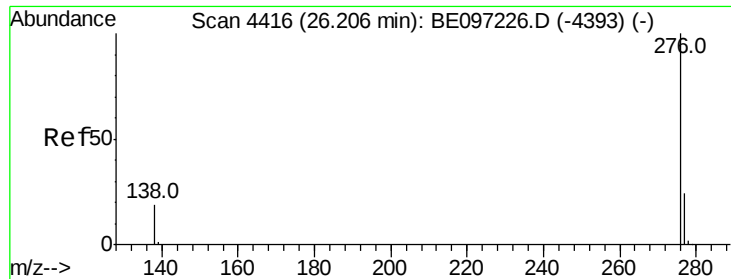
Sohil  
 8/9/2018 4:43:16 PM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.100 ng/uL  
 RT: 25.52 min Scan# 4221  
 Delta R.T. -0.01 min  
 Lab File: BE097238.D  
 Acq: 8 Aug 2018 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 26.7  | 17.4  | 26.0# |
| 279     | 36.0  | 25.9  | 38.9  |





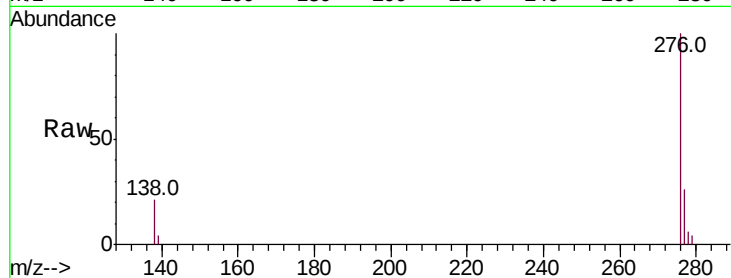
#26  
 Benzo(a,h,i)perylene  
 Concen: 0.368 ng/ul  
 RT: 26.21 min Scan# 4414  
 Delta R.T. -0.00 min  
 Lab File: BE097238.D  
 Acq: 8 Aug 2018 16:55

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AA1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.8  | 21.8  | 32.8# |
| 277     | 26.1  | 20.5  | 30.7  |

Manual Integrations  
 APPROVED

Sohil  
 8/9/2018 4:43:16 PM



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

