

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101718\  
 Data File : BE097961.D  
 Acq On : 17 Oct 2018 23:48  
 Operator : SJ/JU  
 Sample : J5521-12MS  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC5-01MS

Manual Integrations  
 APPROVED

Sohil  
 10/18/2018 1:57:47 PM

Quant Time: Oct 18 11:23:37 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 16 15:36:44 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 1855     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.68 | 136  | 8218     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.54 | 164  | 5811     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.29 | 188  | 16411    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.47 | 240  | 19361    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 24.03 | 264  | 19439    | 0.40 | ng    | -0.01    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.47  | 112 | 1178  | 0.20 | ng | 0.00  |
| 5) Phenol-d6                | 7.04  | 99  | 1826  | 0.21 | ng | -0.01 |
| 8) Nitrobenzene-d5          | 9.03  | 82  | 1362  | 0.18 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.28 | 152 | 2521m | 0.18 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol    | 16.04 | 330 | 577   | 0.18 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 13.17 | 172 | 3745  | 0.16 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.33 | 212 | 39030 | 0.18 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.92 | 244 | 7680  | 0.17 | ng | 0.00  |

|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.38  | 88  | 609   | 0.188  | ng | # 72 |
| 3) n-Nitrosodimethylamine      | 3.68  | 42  | 616   | 0.171  | ng | # 88 |
| 6) bis(2-Chloroethyl)ether     | 7.30  | 93  | 1261  | 0.172  | ng | 92   |
| 9) Naphthalene                 | 10.73 | 128 | 17575 | 0.215  | ng | 99   |
| 10) Hexachlorobutadiene        | 11.02 | 225 | 810   | 0.184  | ng | 96   |
| 12) 2-Methylnaphthalene        | 12.35 | 142 | 3122  | 0.223  | ng | 94   |
| 16) Acenaphthylene             | 14.27 | 152 | 5397  | 0.201  | ng | 99   |
| 17) Acenaphthene               | 14.61 | 154 | 3307  | 0.202  | ng | 98   |
| 18) Fluorene                   | 15.59 | 166 | 4912  | 0.218  | ng | 98   |
| 20) 4-Bromophenyl-phenylether  | 16.49 | 248 | 1692  | 0.189  | ng | # 86 |
| 21) Hexachlorobenzene          | 16.60 | 284 | 1575  | 0.179  | ng | 98   |
| 22) Pentachlorophenol          | 16.95 | 266 | 559   | 0.281  | ng | # 86 |
| 23) Phenanthrene               | 17.34 | 178 | 8673  | 0.208  | ng | 99   |
| 24) Anthracene                 | 17.43 | 178 | 8449  | 0.214  | ng | 99   |
| 26) Fluoranthene               | 19.35 | 202 | 11242 | 0.205  | ng | 100  |
| 28) Pyrene                     | 19.72 | 202 | 11391 | 0.204  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.46 | 228 | 11534 | 0.194  | ng | # 91 |
| 31) Chrysene                   | 21.52 | 228 | 10868 | 0.193  | ng | # 90 |
| 32) Bis(2-ethylhexyl)phthalate | 21.39 | 149 | 30681 | 0.152  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.73 | 276 | 11921 | 0.107  | ng | 99   |
| 35) Benzo(b)fluoranthene       | 23.25 | 252 | 10753 | 0.192  | ng | # 5  |
| 36) Benzo(k)fluoranthene       | 23.30 | 252 | 10664 | 0.183  | ng | # 17 |
| 37) Benzo(a)pyrene             | 23.92 | 252 | 10599 | 0.194  | ng | # 14 |
| 38) Dibenzo(a,h)anthracene     | 26.76 | 278 | 9508  | 0.178  | ng | # 41 |
| 39) Benzo(g,h,i)perylene       | 27.56 | 276 | 9679  | 0.177  | ng | # 72 |

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

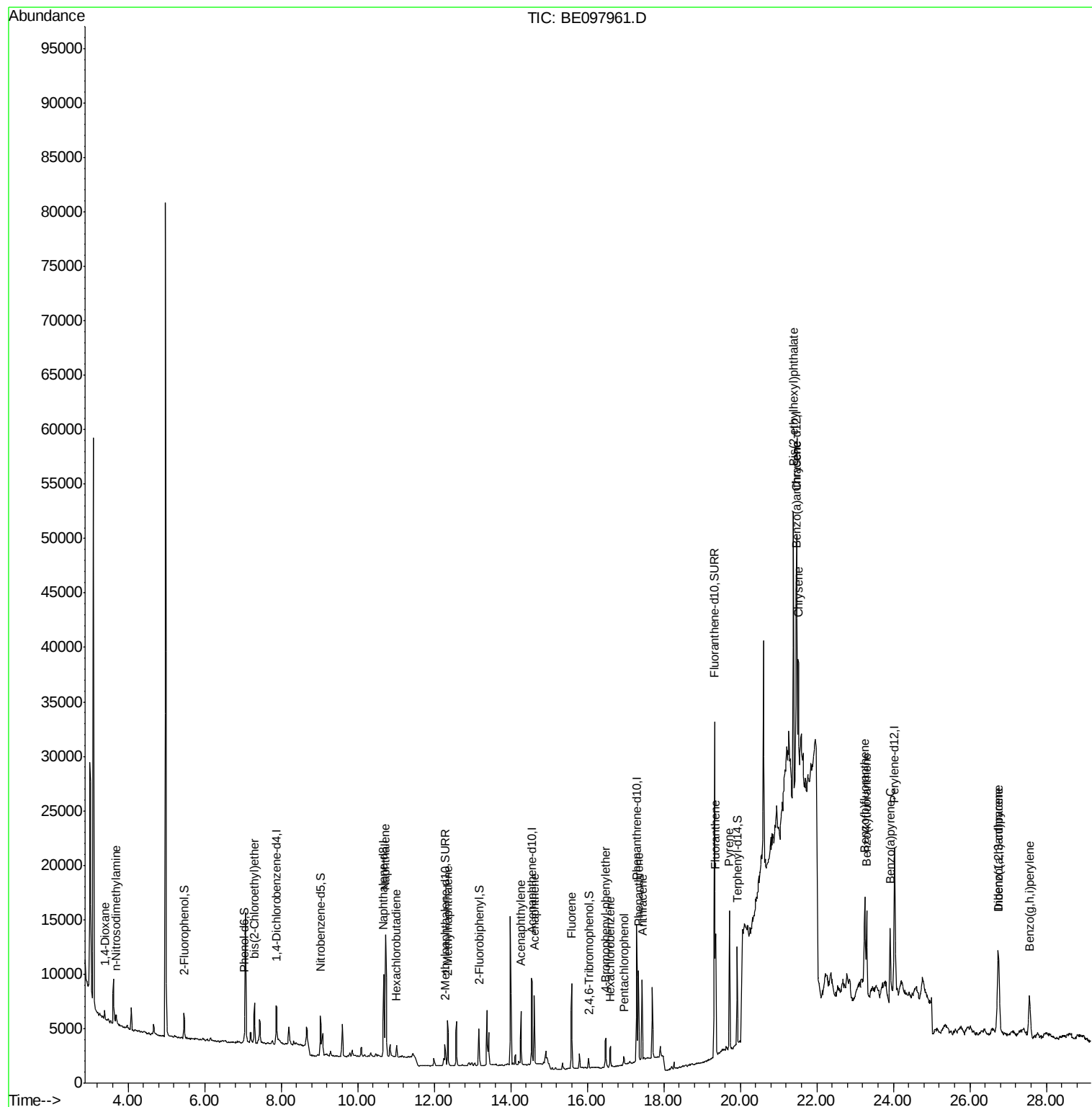
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101718\  
Data File : BE097961.D  
Acq On : 17 Oct 2018 23:48  
Operator : SJ/JU  
Sample : J5521-12MS  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

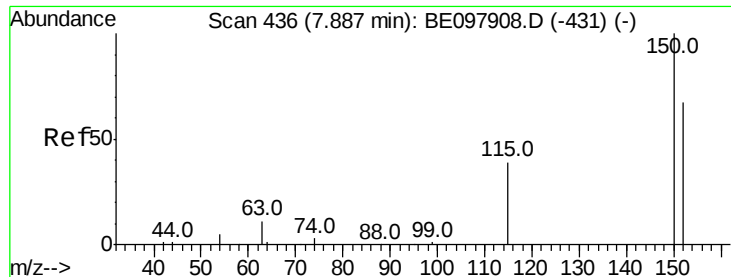
Instrument :  
BNA\_E  
ClientSampled :  
AOC5-01MS

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Quant Time: Oct 18 11:23:37 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 16 15:36:44 2018  
Response via : Initial Calibration





#1

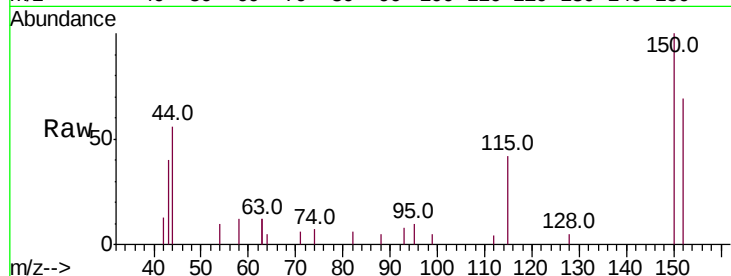
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.89 min Scan# 436  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

Instrument :  
BNA\_E  
ClientSampleId :  
AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 145.5 | 118.2 | 177.4 |
| 115     | 61.4  | 50.9  | 76.3  |

Manual Integrations  
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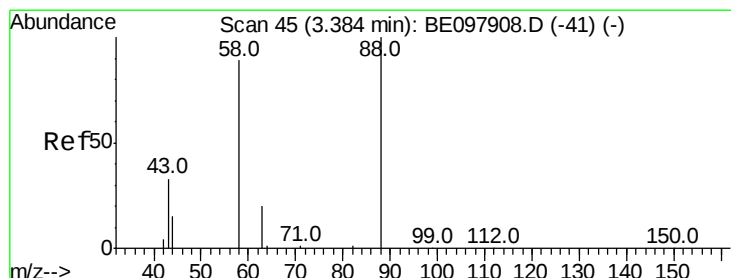
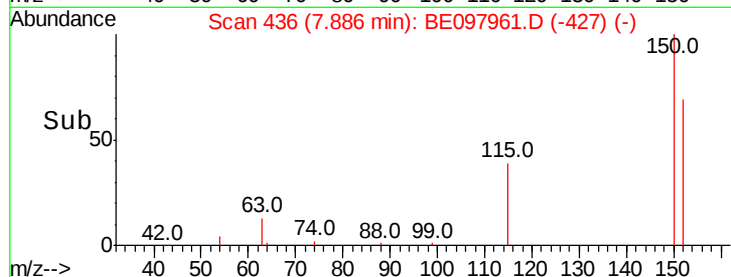
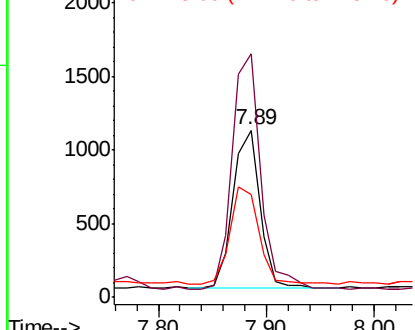


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

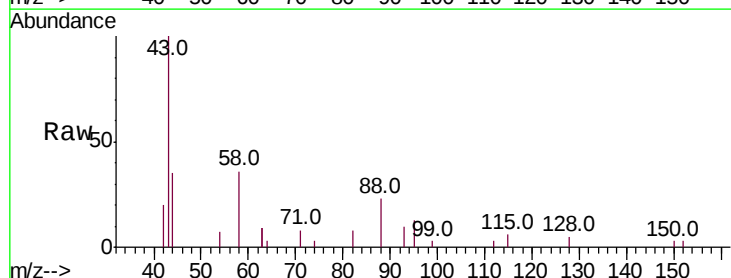
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 0.188 ng  
RT: 3.38 min Scan# 45  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 89.5  | 73.2  | 109.8 |
| 43      | 98.9  | 36.9  | 55.3  |

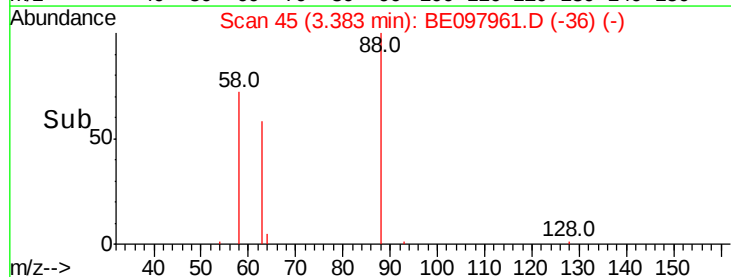
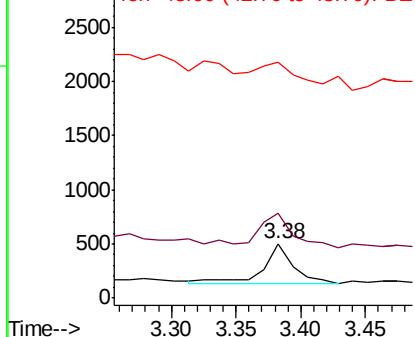


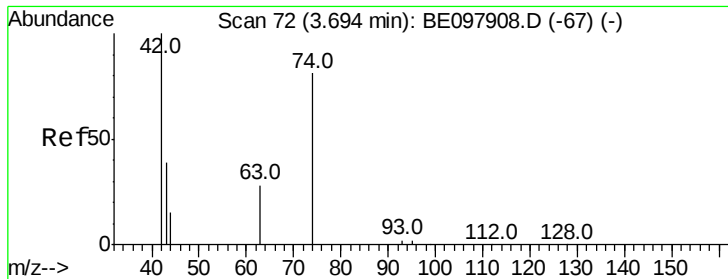
Abundance

Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

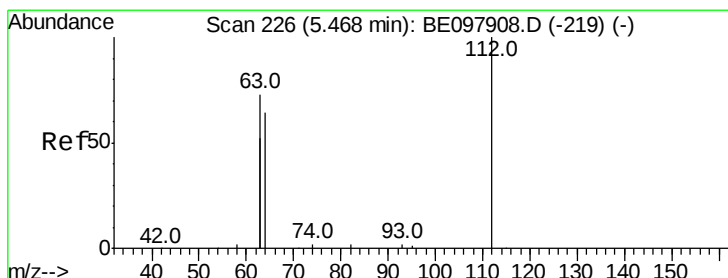
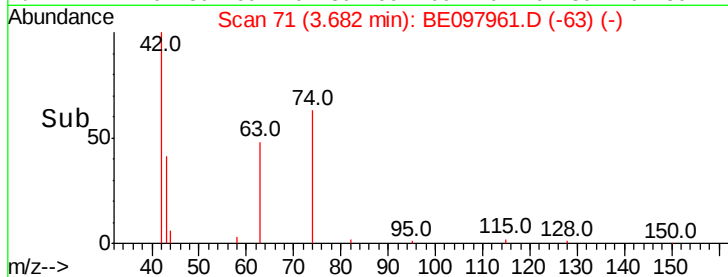
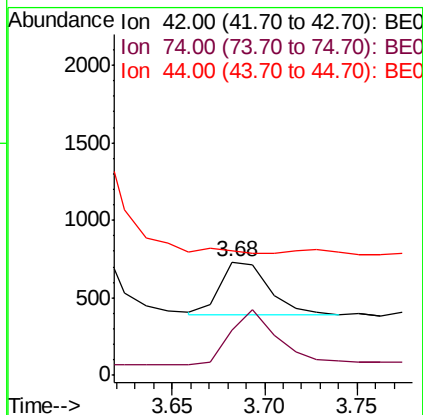
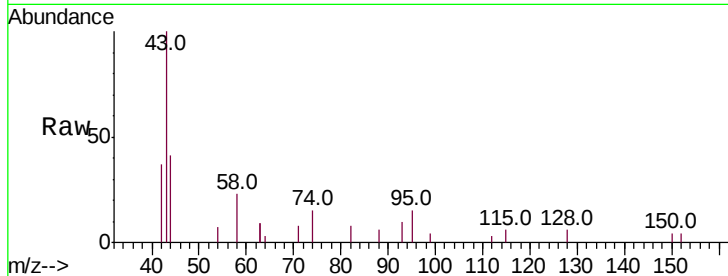
n-Nitrosodimethylamine  
Concen: 0.171 ng  
RT: 3.68 min Scan# 71  
Delta R.T. -0.01 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

Instrument :  
BNA\_E  
ClientSampled :  
AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 107.5 | 77.6  | 116.4 |
| 44      | 0.0   | 7.6   | 11.4# |

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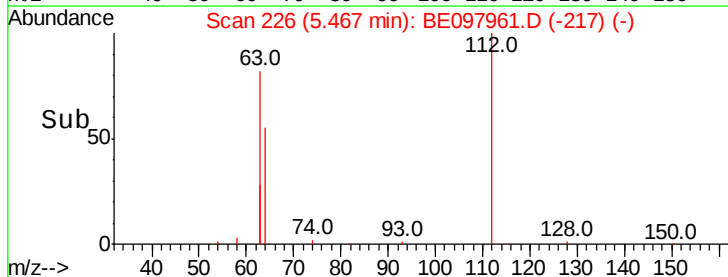
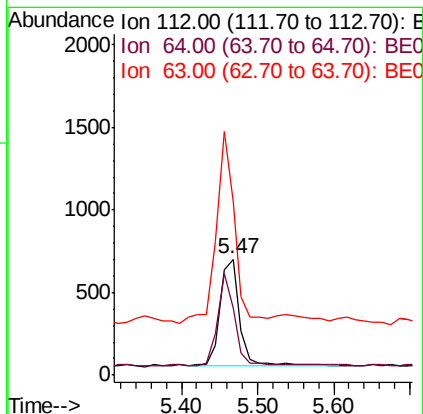
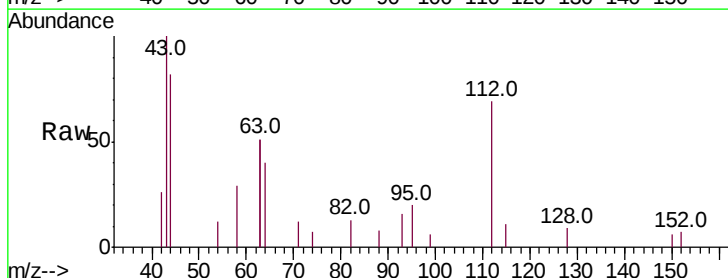
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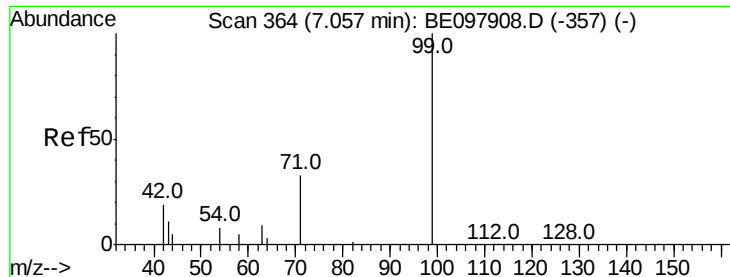


#4

2-Fluorophenol  
Concen: 0.201 ng  
RT: 5.47 min Scan# 226  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.5  | 58.9  | 88.3  |
| 63      | 166.0 | 120.3 | 180.5 |





#5

Phenol-d6

Concen: 0.211 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

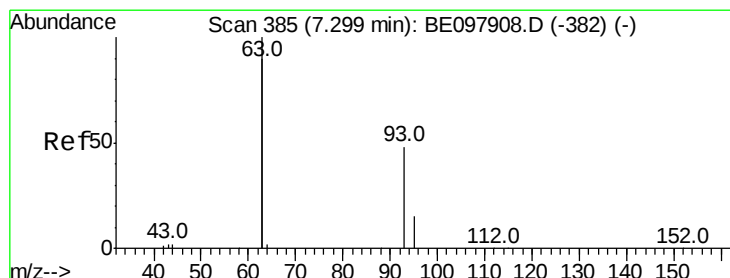
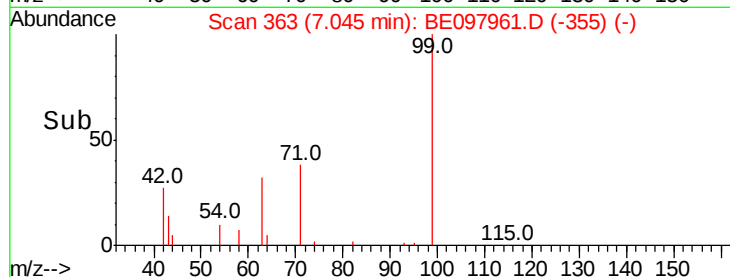
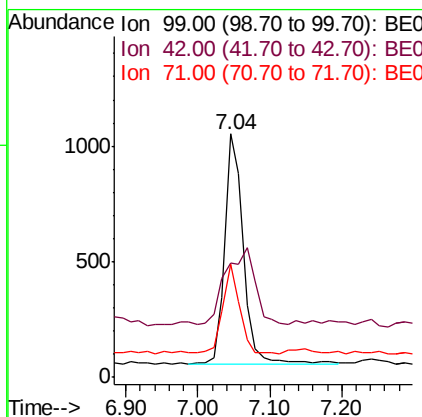
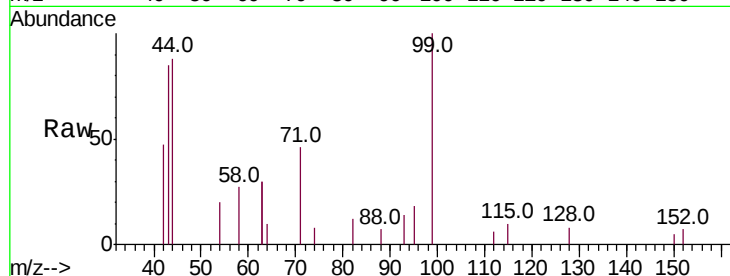
ClientSampleId :

AOC5-01MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 1826  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 0.0   | 19.9  | 29.9# |
| 71        | 34.8  | 27.8  | 41.8  |

Manual Integrations  
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#6

bis(2-Chloroethyl)ether

Concen: 0.172 ng

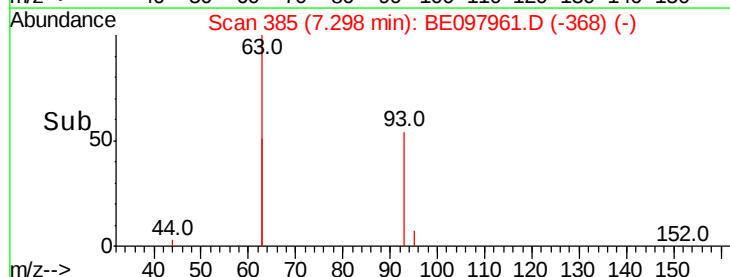
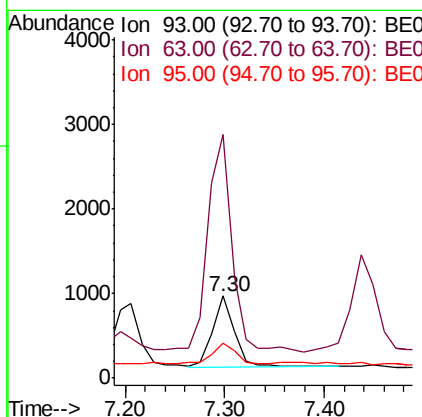
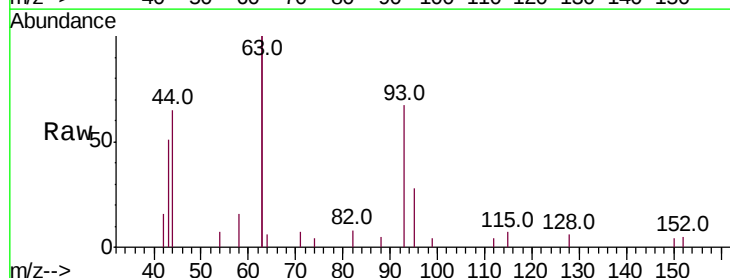
RT: 7.30 min Scan# 385

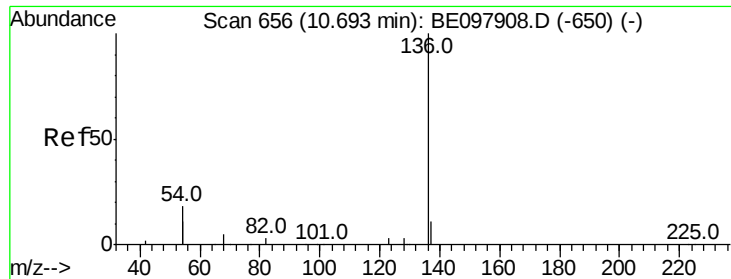
Delta R.T. -0.00 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 1261  |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 341.1 | 259.0 | 388.4 |
| 95        | 32.0  | 27.8  | 41.8  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.68 min Scan# 655

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

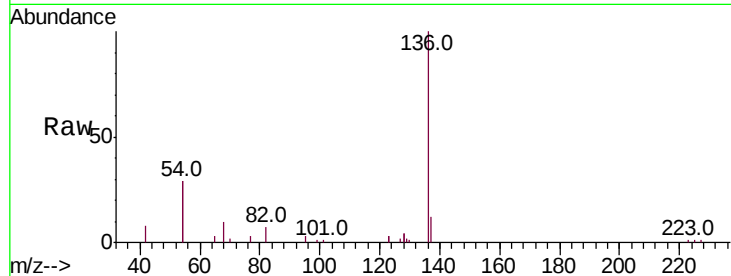
ClientSampleId :

AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.3  | 9.6   | 14.4  |
| 54      | 58.9  | 27.7  | 41.5# |
| 68      | 10.4  | 5.3   | 7.9#  |

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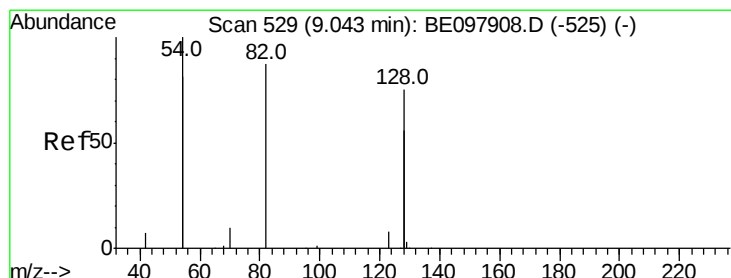
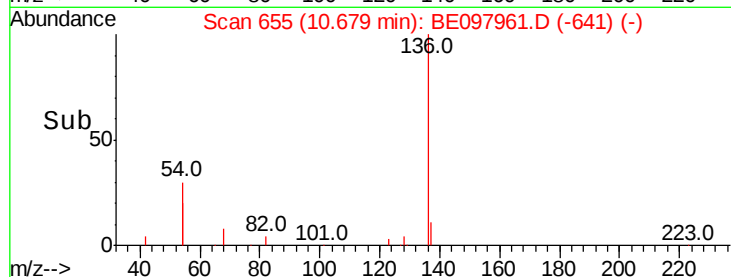
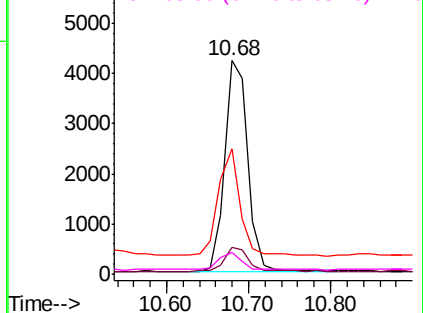
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.175 ng

RT: 9.03 min Scan# 528

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

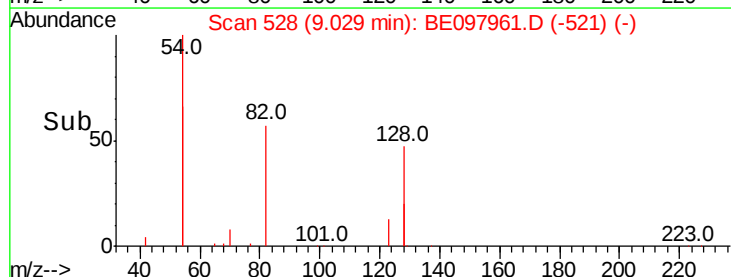
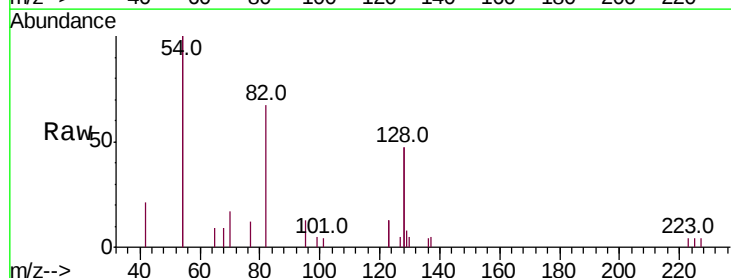
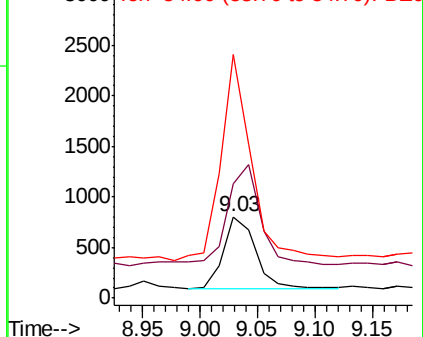
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 82      | 100   |       |        |
| 128     | 139.7 | 129.9 | 194.9  |
| 54      | 298.8 | 174.0 | 261.0# |

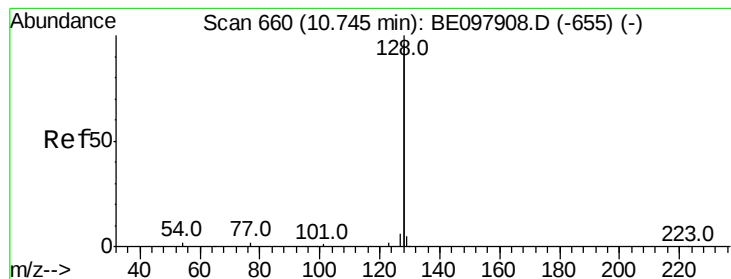
Abundance

Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.215 ng

RT: 10.73 min Scan# 659

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

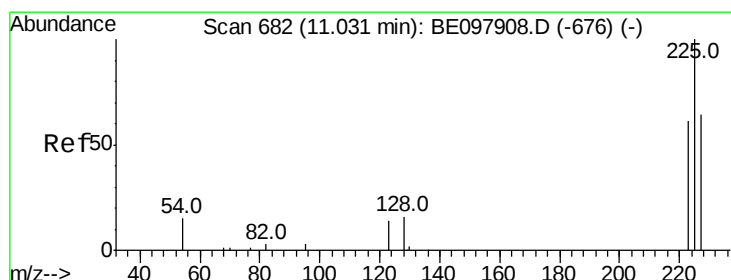
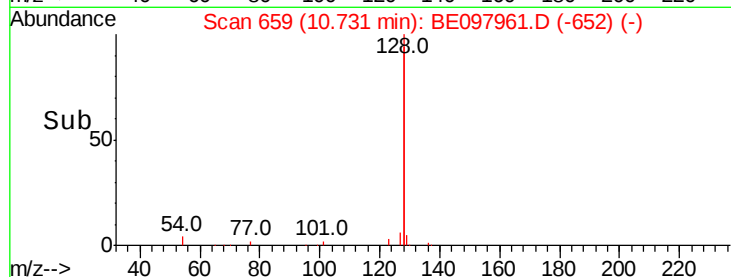
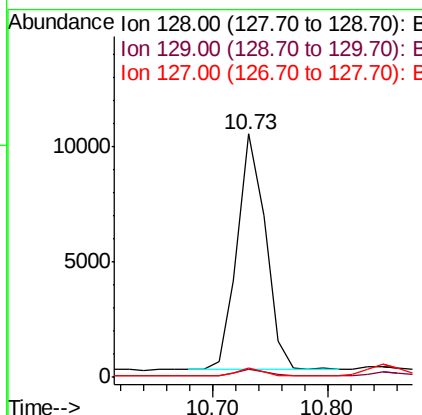
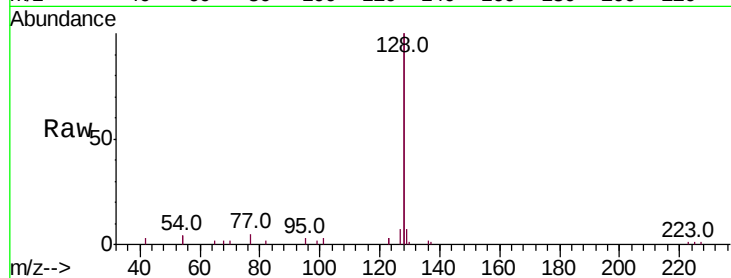
ClientSampleId :

AOC5-01MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 17575 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.3   | 2.5   | 3.7   |
| 127       | 3.7   | 2.8   | 4.2   |

Manual Integrations  
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#10

Hexachlorobutadiene

Concen: 0.184 ng

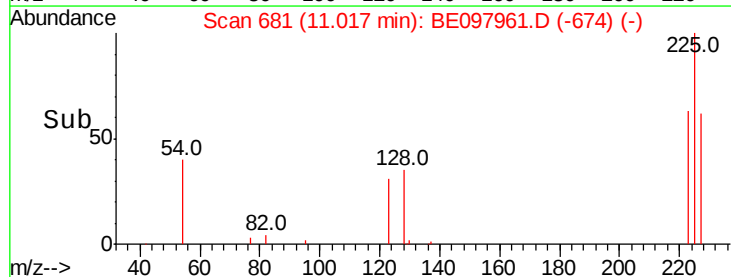
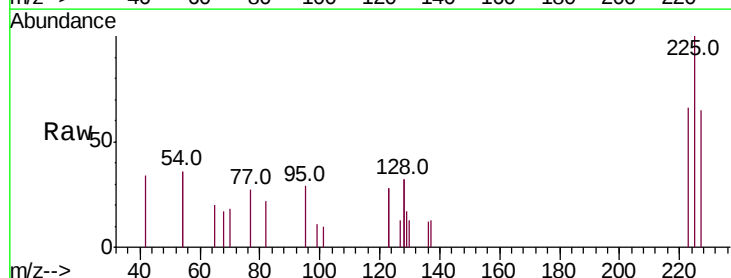
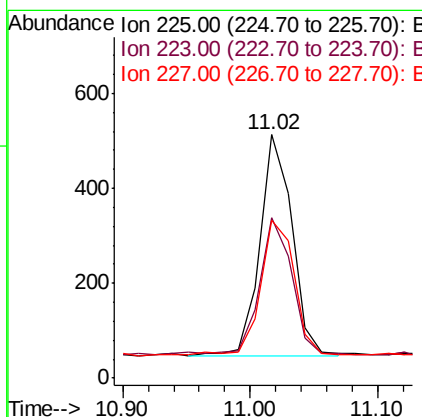
RT: 11.02 min Scan# 681

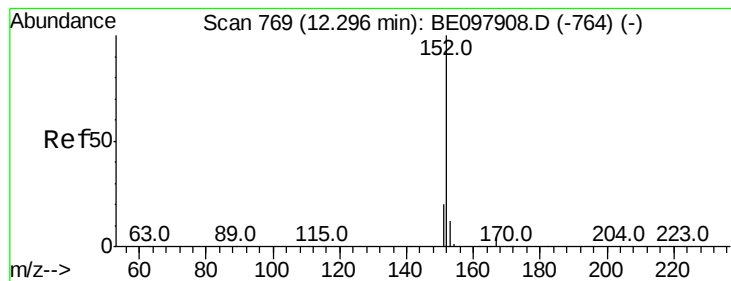
Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 810  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 61.0  | 51.8  | 77.8 |
| 227       | 63.8  | 53.0  | 79.6 |





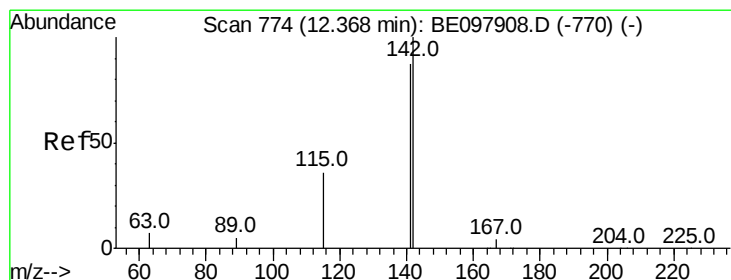
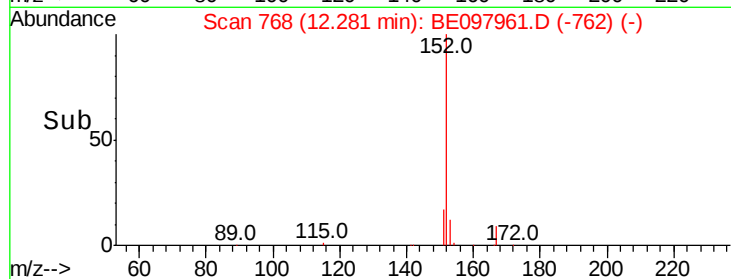
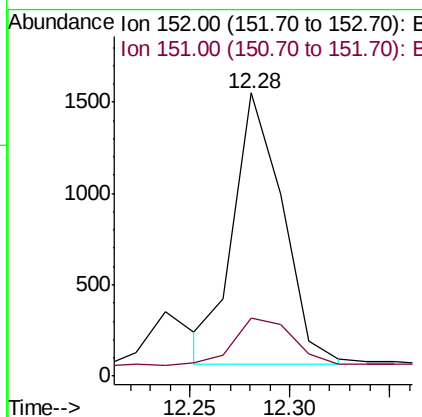
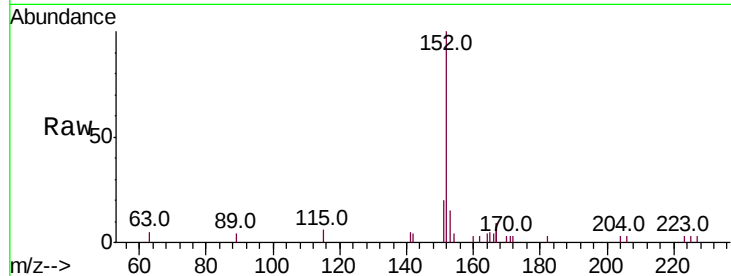
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.184 ng  
 RT: 12.28 min Scan# 768  
 Delta R.T. -0.02 min  
 Lab File: BE097961.D  
 Acq: 17 Oct 2018 23:48

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 23.1  | 16.2  | 24.4  |

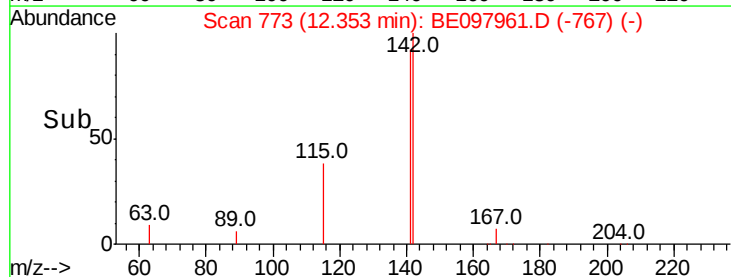
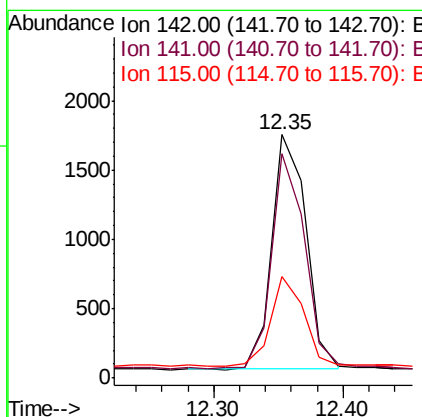
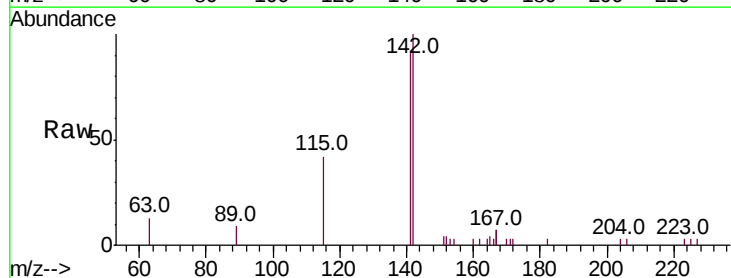
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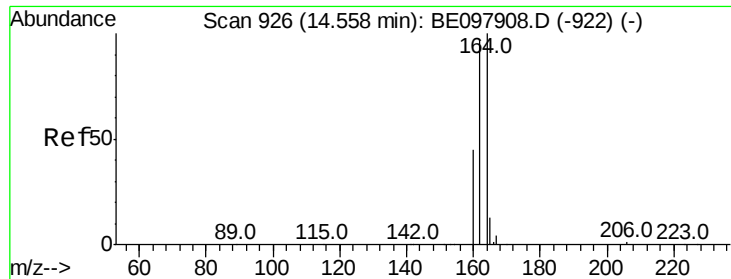
Sohil  
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#12  
 2-Methylnaphthalene  
 Concen: 0.223 ng  
 RT: 12.35 min Scan# 773  
 Delta R.T. -0.02 min  
 Lab File: BE097961.D  
 Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.4  | 69.8  | 104.6 |
| 115     | 41.8  | 30.5  | 45.7  |





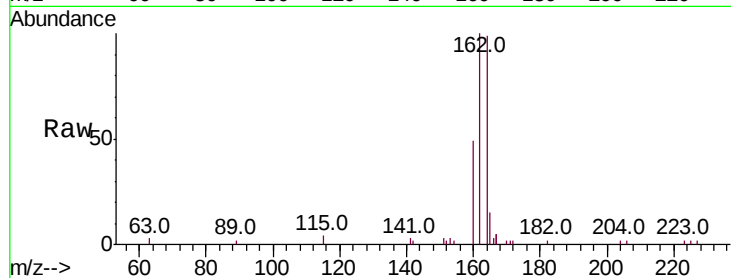
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.54 min Scan# 925  
 Delta R.T. -0.02 min  
 Lab File: BE097961.D  
 Acq: 17 Oct 2018 23:48

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.7 | 77.4  | 116.2 |
| 160     | 49.0  | 36.5  | 54.7  |

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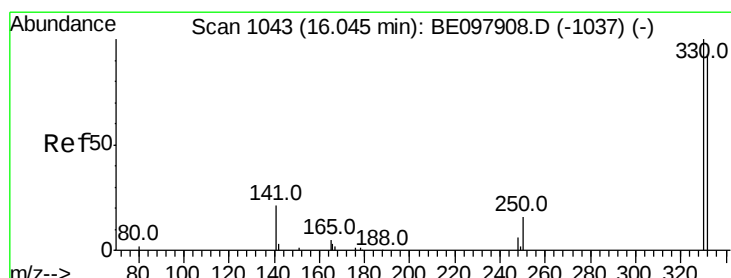
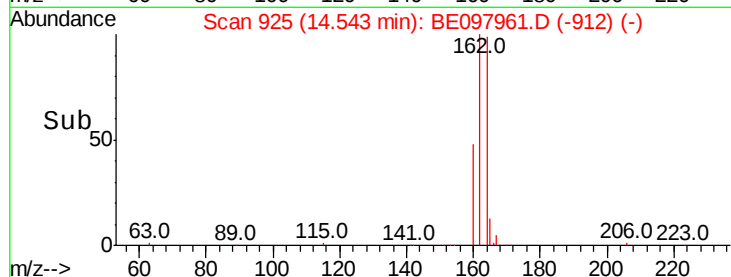
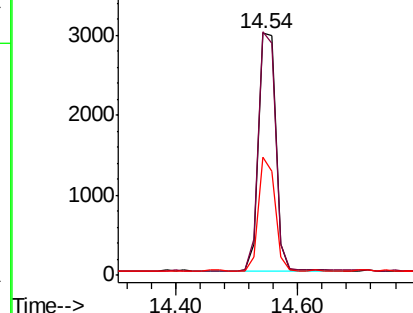


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14  
 2,4,6-Tribromophenol  
 Concen: 0.185 ng  
 RT: 16.04 min Scan# 1043  
 Delta R.T. -0.00 min  
 Lab File: BE097961.D  
 Acq: 17 Oct 2018 23:48

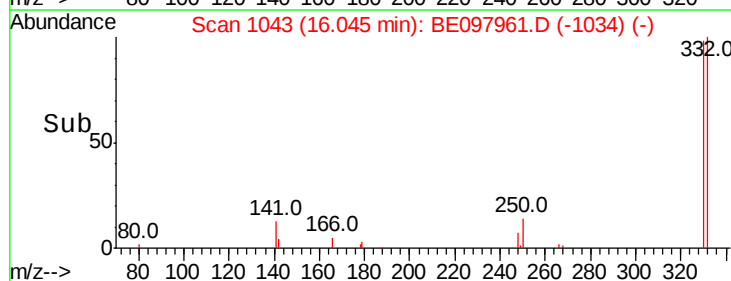
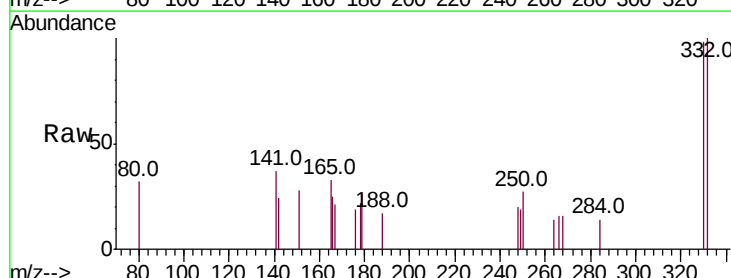
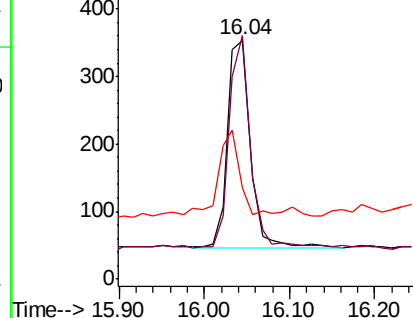
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 76.5  | 114.7 |
| 141     | 35.7  | 31.8  | 47.6  |

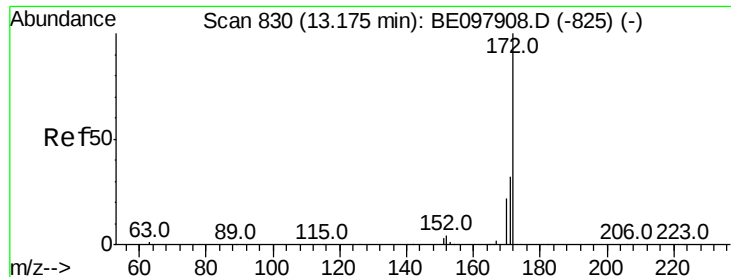
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





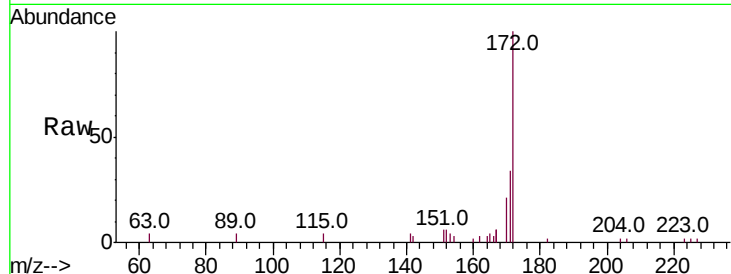
#15  
2-Fluorobiphenyl  
Concen: 0.158 ng  
RT: 13.17 min Scan# 830  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

Instrument :  
BNA\_E  
ClientSampleId :  
AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.1  | 26.0  | 39.0  |
| 170     | 21.2  | 18.0  | 27.0  |

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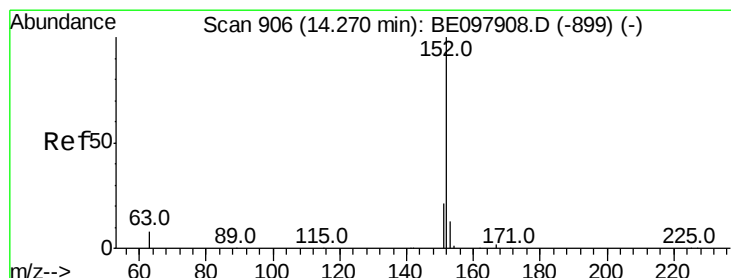
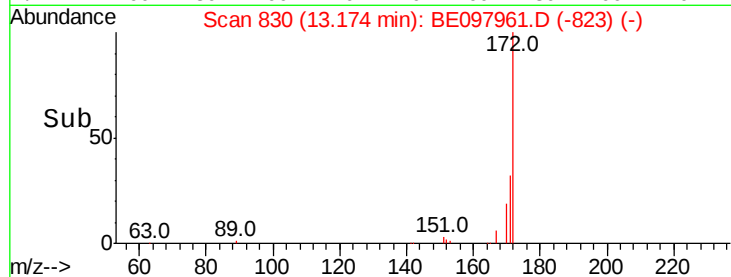
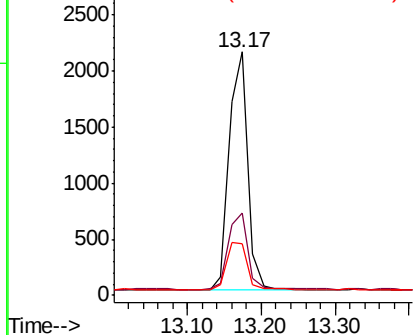


Abundance

Ion 172.00 (171.70 to 172.70): E

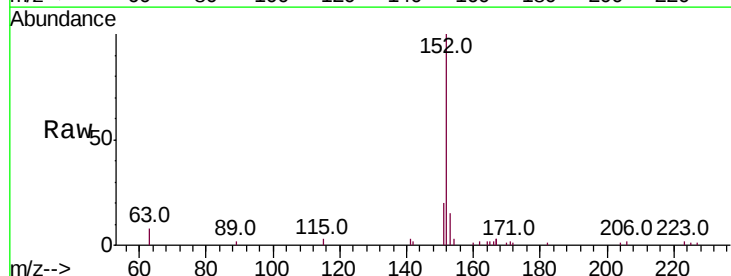
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16  
Acenaphthylene  
Concen: 0.201 ng  
RT: 14.27 min Scan# 906  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 16.1  | 24.1  |
| 153     | 13.5  | 10.9  | 16.3  |

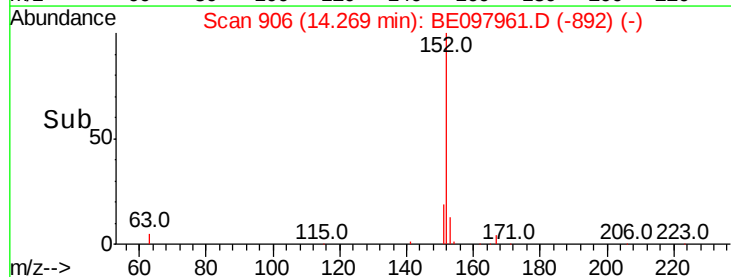
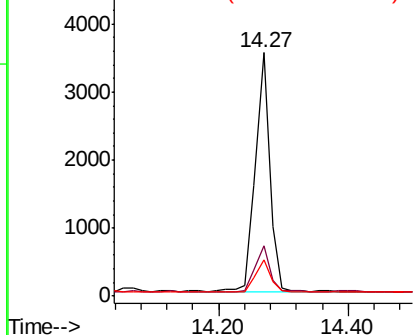


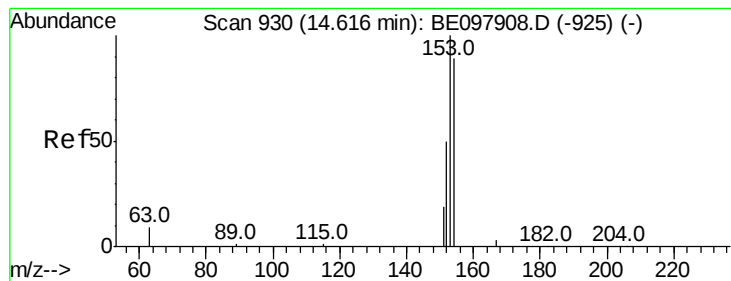
Abundance

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





#17

Acenaphthene

Concen: 0.202 ng

RT: 14.61 min Scan# 930

Delta R.T. -0.00 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

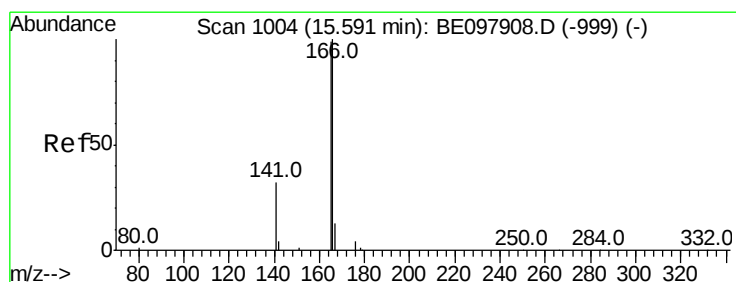
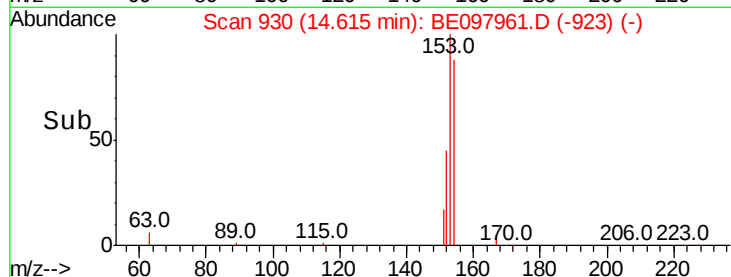
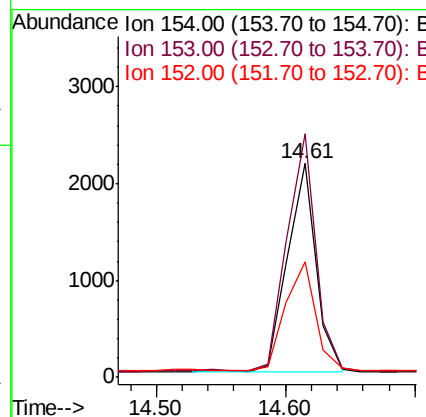
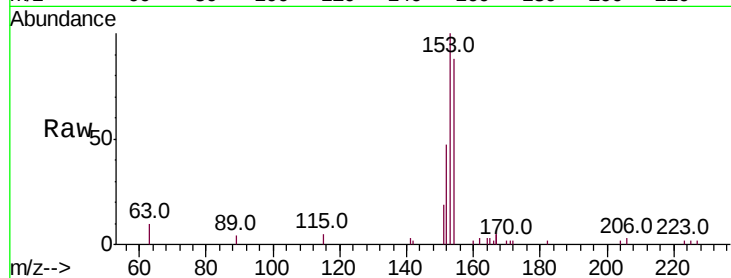
ClientSampleId :

AOC5-01MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 3307  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 113.8 | 92.6  | 139.0 |
| 152       | 55.9  | 45.5  | 68.3  |

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#18

Fluorene

Concen: 0.218 ng

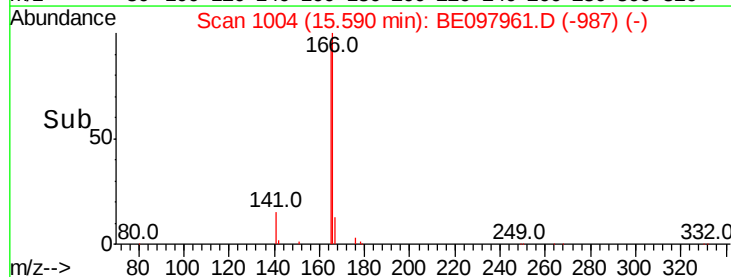
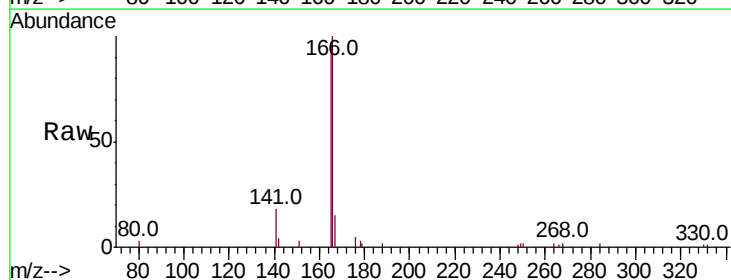
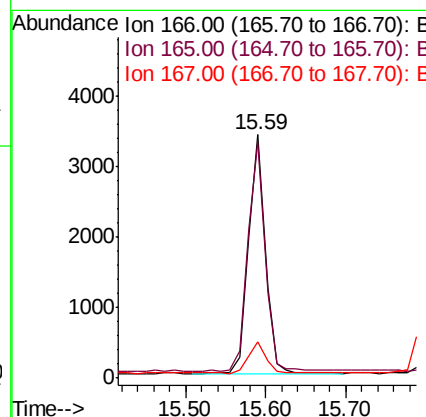
RT: 15.59 min Scan# 1004

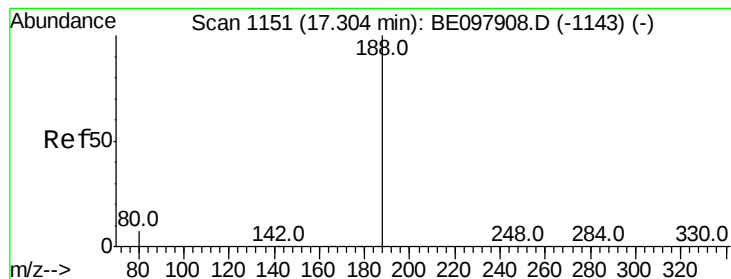
Delta R.T. -0.00 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 4912  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.5  | 78.2  | 117.4 |
| 167       | 13.1  | 11.0  | 16.6  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.29 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

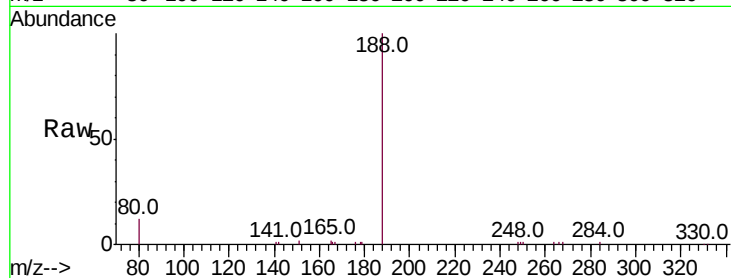
ClientSampleId :

AOC5-01MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 16411 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 12.1  | 6.3   | 9.5#  |

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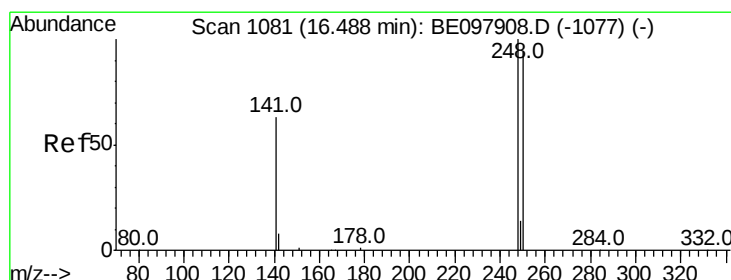
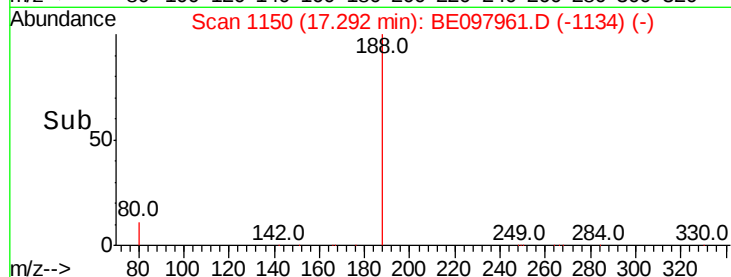
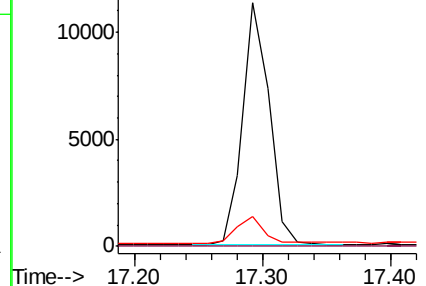
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.189 ng

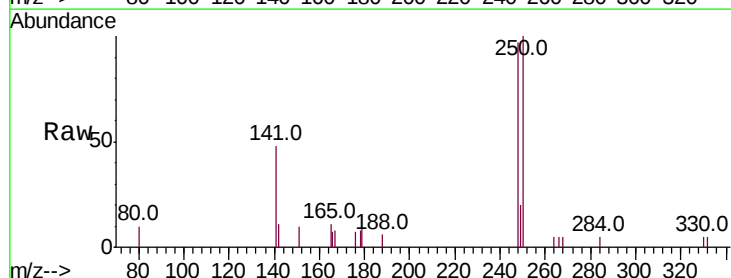
RT: 16.49 min Scan# 1081

Delta R.T. -0.00 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

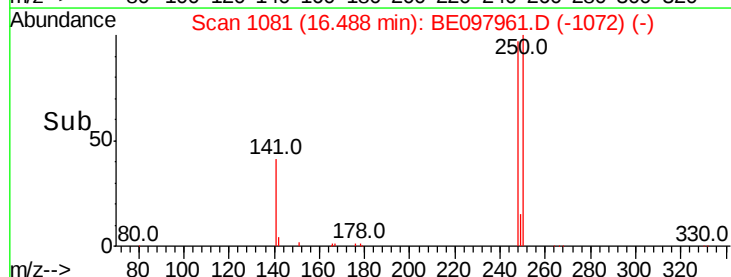
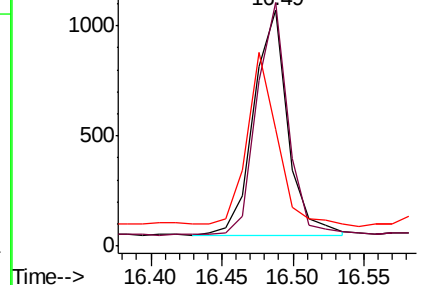
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1692  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 103.3 | 75.1  | 112.7 |
| 141       | 49.6  | 51.8  | 77.8# |

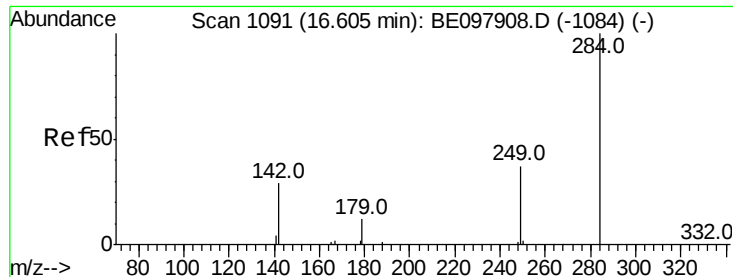


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.179 ng

RT: 16.60 min Scan# 1091

Delta R.T. -0.00 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

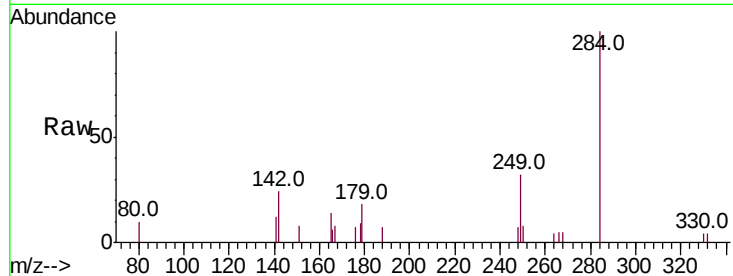
ClientSampleId :

AOC5-01MS

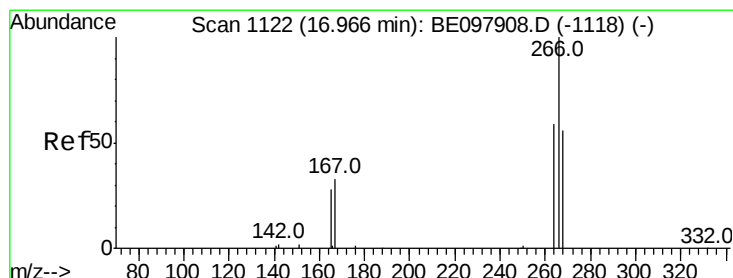
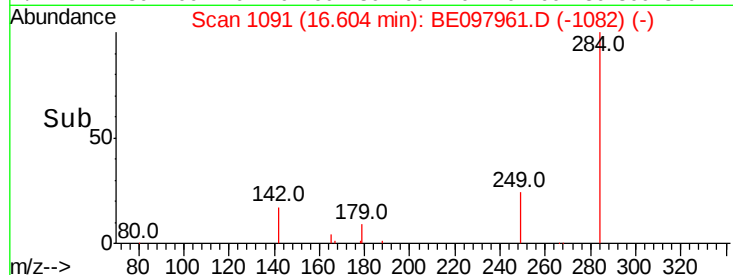
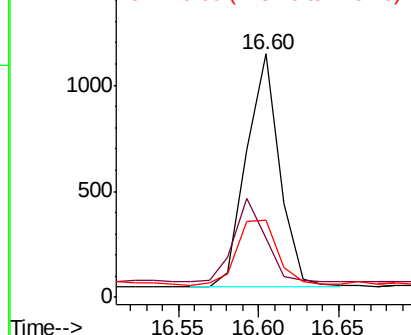
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 1575 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 33.6  | 25.9  | 38.9 |
| 249       | 34.3  | 26.6  | 40.0 |

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Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.281 ng

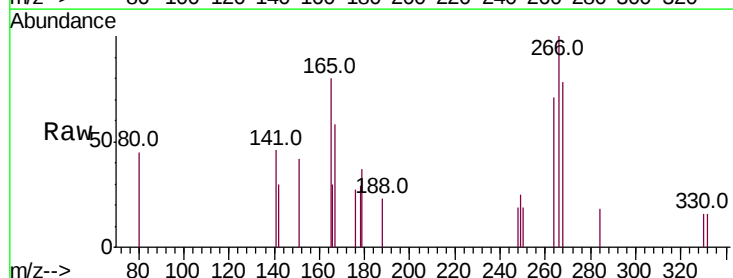
RT: 16.95 min Scan# 1121

Delta R.T. -0.01 min

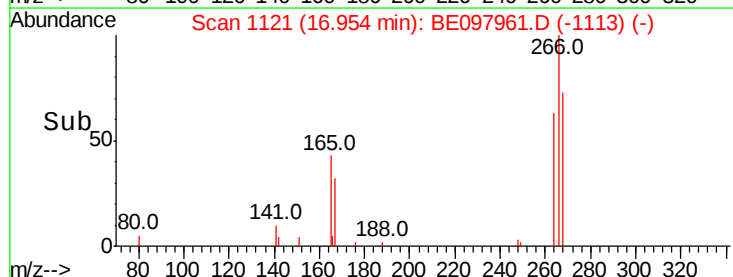
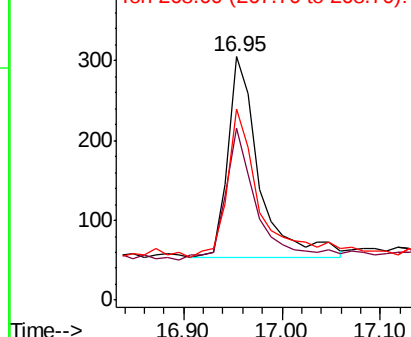
Lab File: BE097961.D

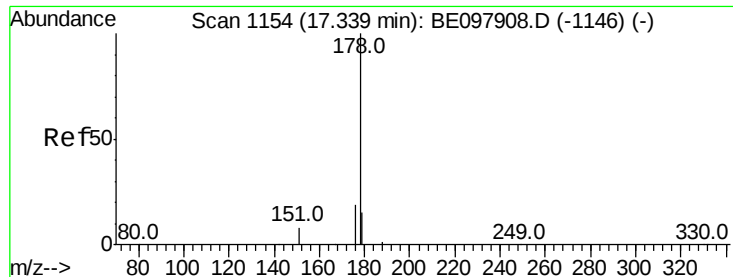
Acq: 17 Oct 2018 23:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 559   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 70.8  | 51.3  | 76.9  |
| 268       | 78.4  | 50.1  | 75.1# |



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





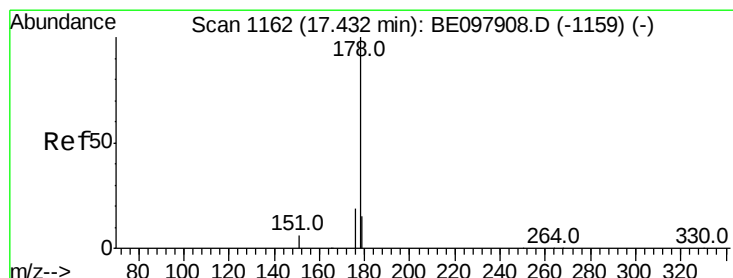
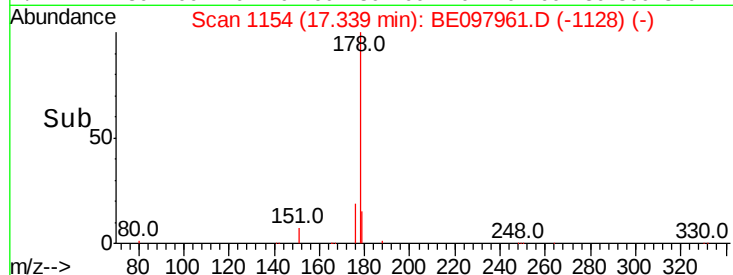
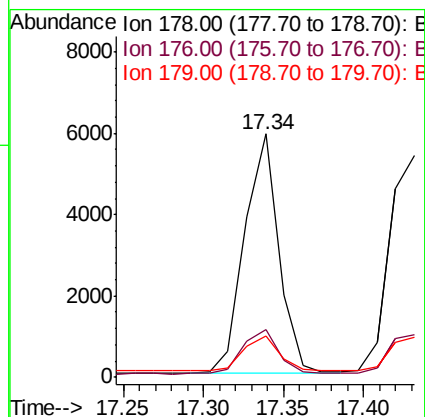
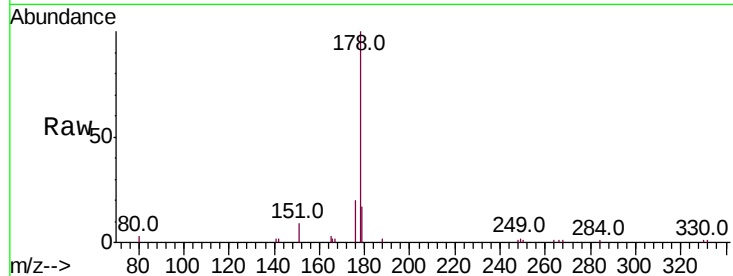
#23  
Phenanthrene  
Concen: 0.208 ng  
RT: 17.34 min Scan# 1154  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

Instrument :  
BNA\_E  
ClientSampleId :  
AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.5  | 23.3  |
| 179     | 16.0  | 12.2  | 18.4  |

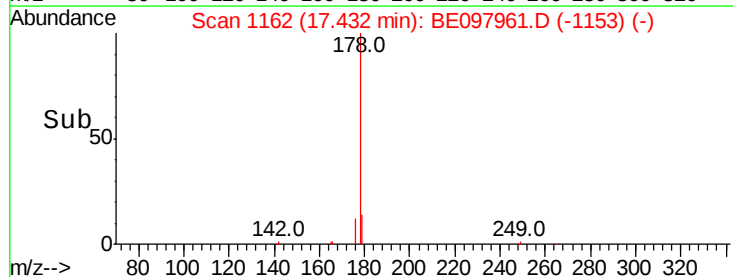
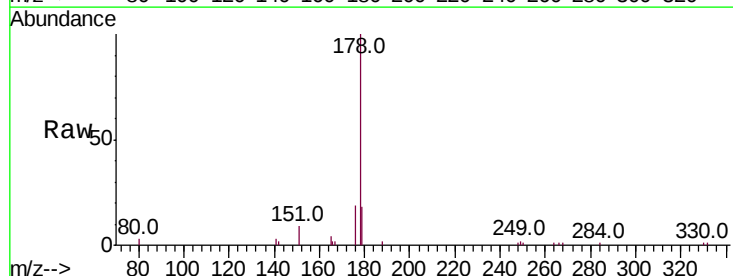
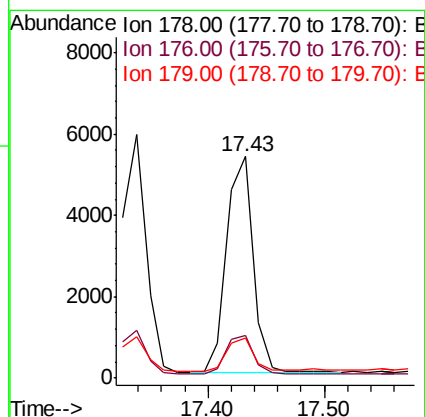
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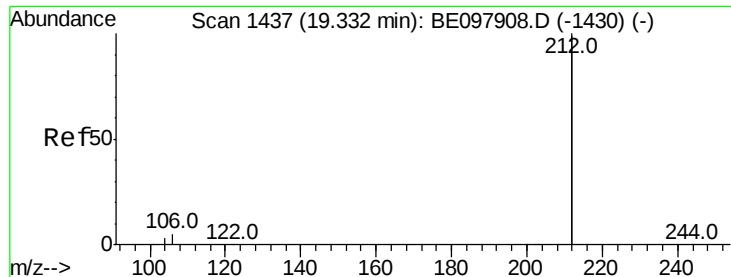
Sohil  
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#24  
Anthracene  
Concen: 0.214 ng  
RT: 17.43 min Scan# 1162  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 14.9  | 22.3  |
| 179     | 15.5  | 11.9  | 17.9  |





#25

Fluoranthene-d10

Concen: 0.175 ng

RT: 19.33 min Scan# 1436

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

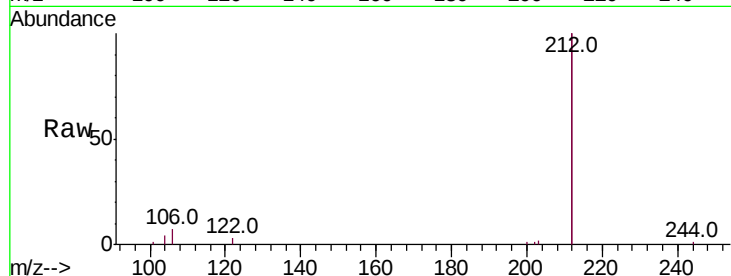
ClientSampleId :

AOC5-01MS

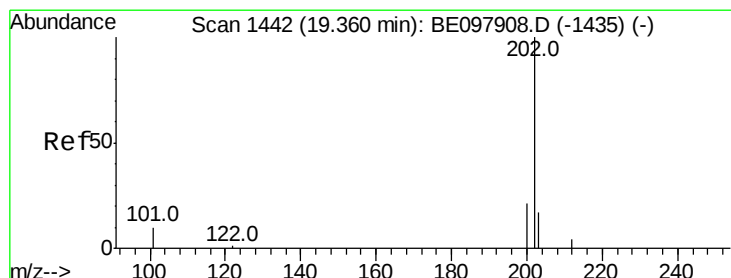
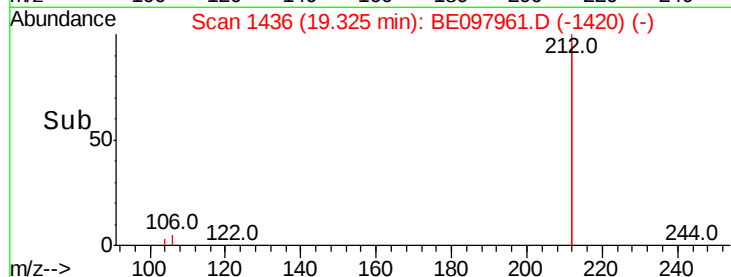
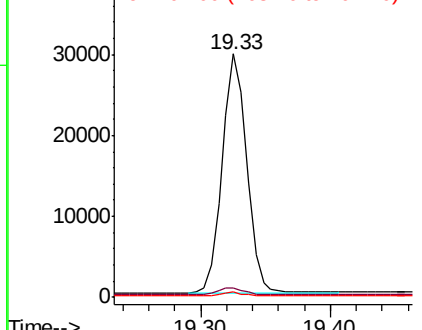
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 39030 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.2   | 2.3   | 3.5   |
| 104       | 1.8   | 1.3   | 1.9   |

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Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.205 ng

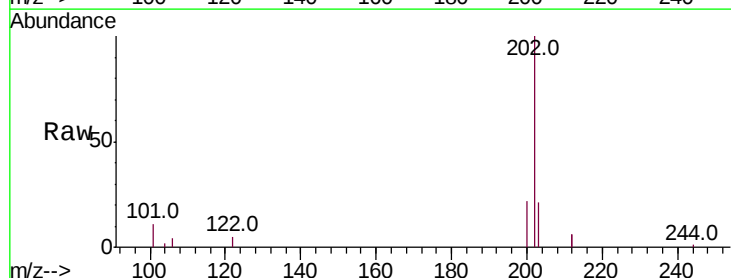
RT: 19.35 min Scan# 1441

Delta R.T. -0.01 min

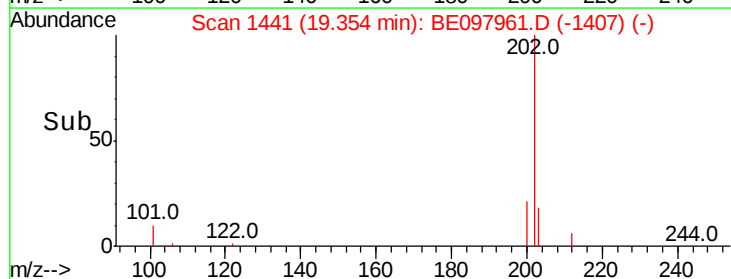
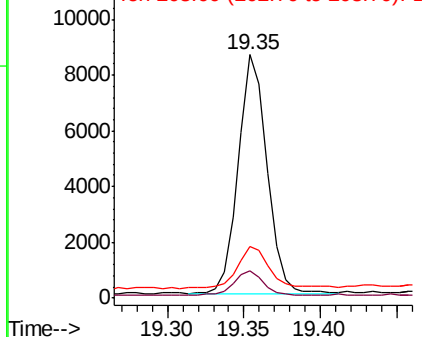
Lab File: BE097961.D

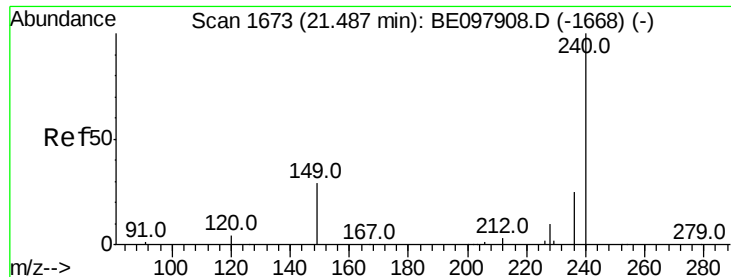
Acq: 17 Oct 2018 23:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 11242 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.3  | 8.2   | 12.2  |
| 203       | 18.6  | 15.0  | 22.4  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





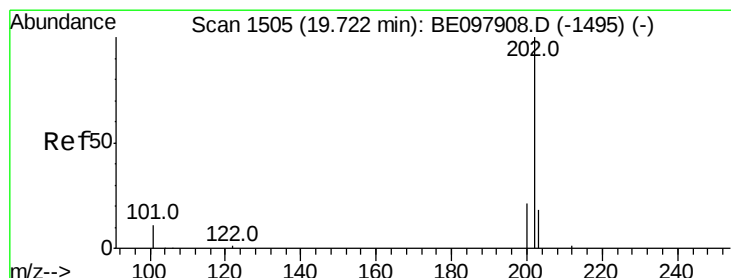
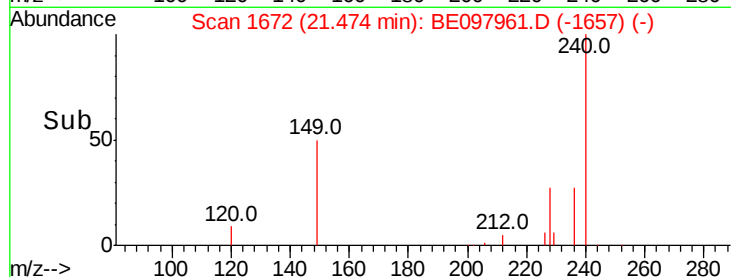
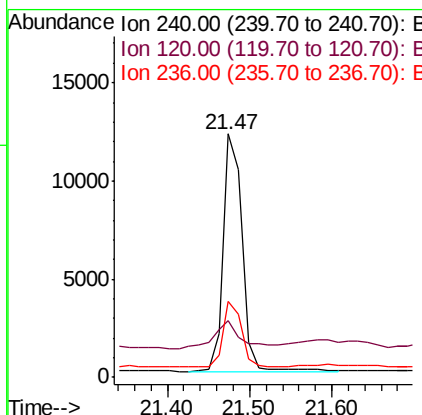
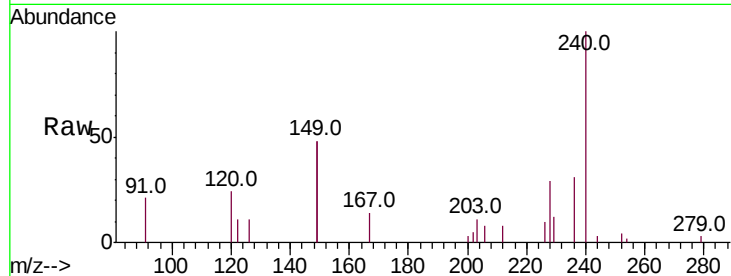
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.47 min Scan# 1672  
Delta R.T. -0.01 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

Instrument :  
BNA\_E  
ClientSampleId :  
AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 23.5  | 7.1   | 10.7# |
| 236     | 31.0  | 21.3  | 31.9  |

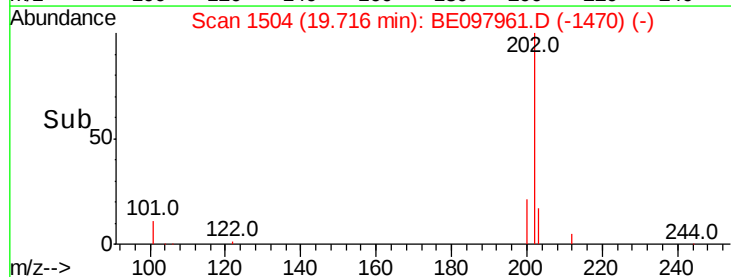
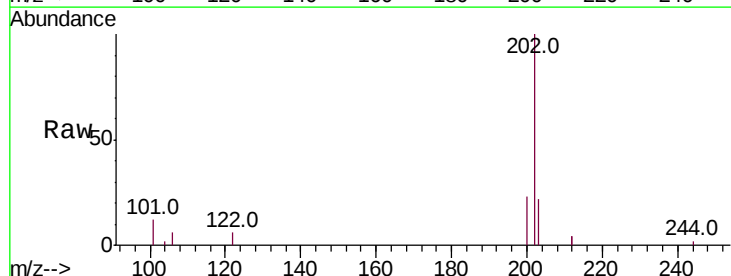
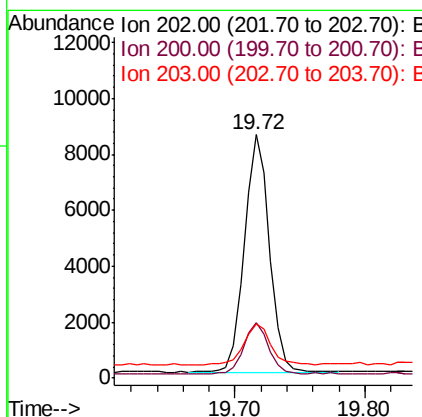
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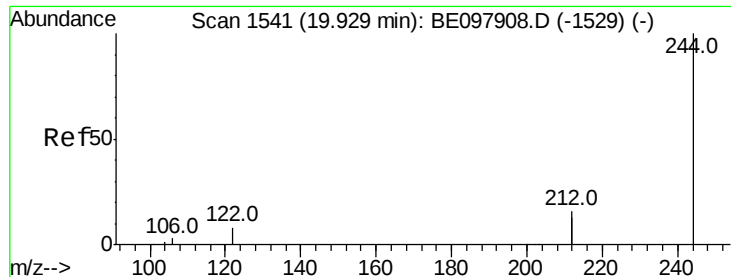
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#28  
Pyrene  
Concen: 0.204 ng  
RT: 19.72 min Scan# 1504  
Delta R.T. -0.01 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.4  | 17.0  | 25.4  |
| 203     | 18.5  | 14.2  | 21.4  |





#29

Terphenyl-d14

Concen: 0.173 ng

RT: 19.92 min Scan# 1540

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

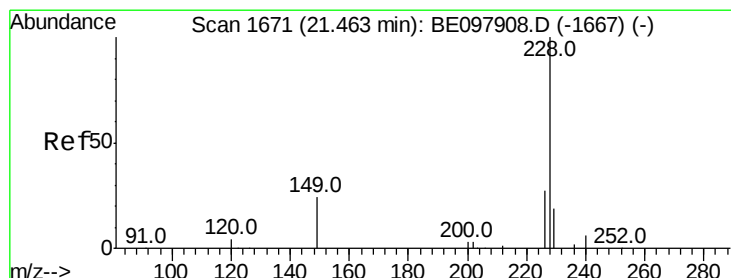
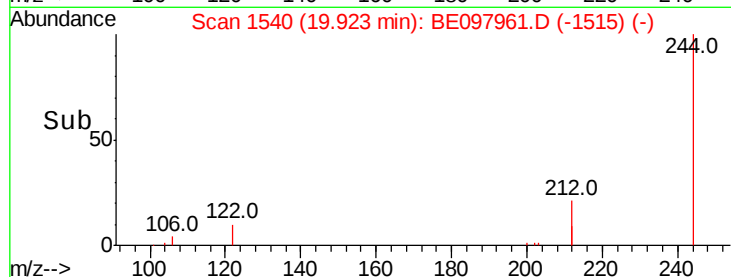
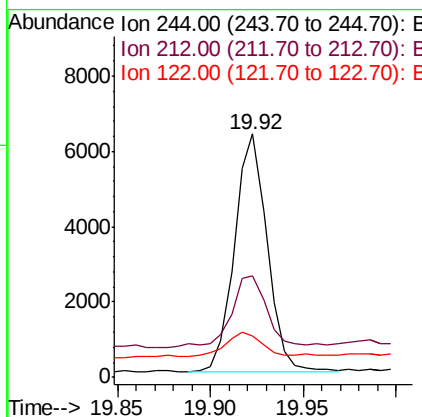
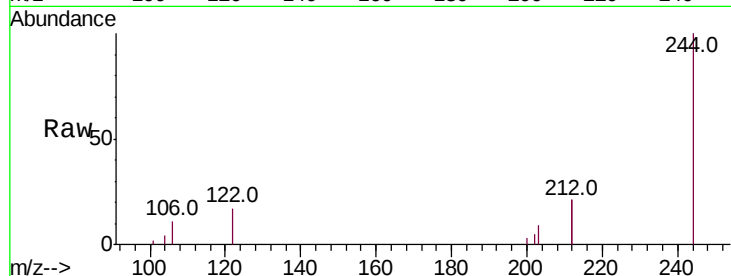
ClientSampleId :

AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 41.5  | 26.2  | 39.2# |
| 122     | 17.0  | 7.7   | 11.5# |

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#30

Benzo(a)anthracene

Concen: 0.194 ng

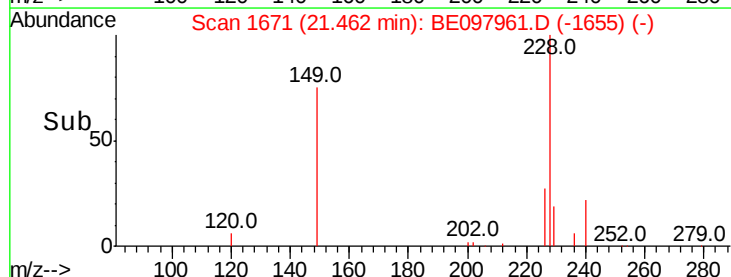
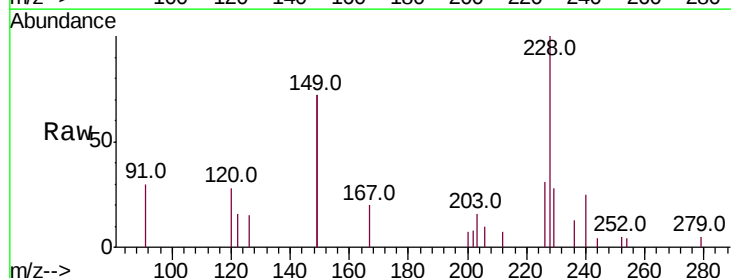
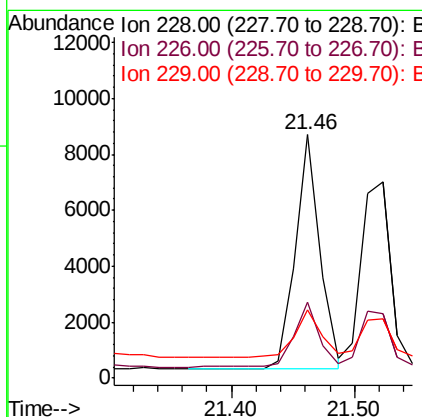
RT: 21.46 min Scan# 1671

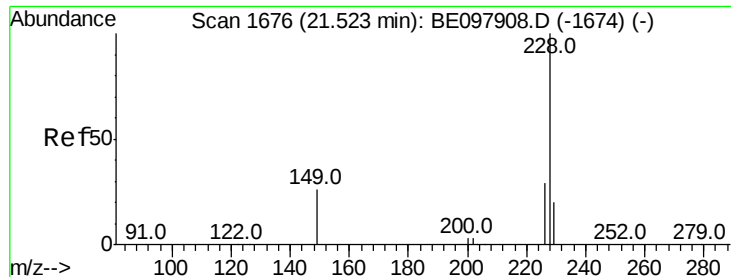
Delta R.T. -0.00 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 22.6  | 33.8  |
| 229     | 27.9  | 16.9  | 25.3# |





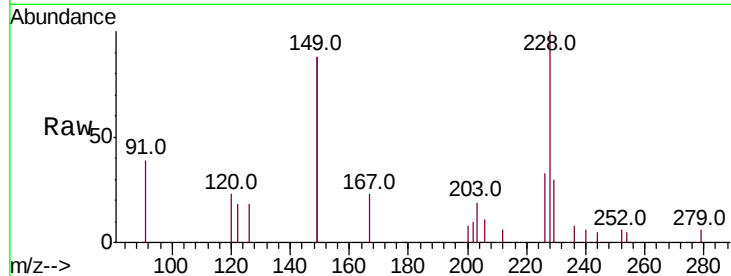
#31  
Chrysene  
Concen: 0.193 ng  
RT: 21.52 min Scan# 1676  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

Instrument :  
BNA\_E  
ClientSampleId :  
AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.8  | 24.3  | 36.5  |
| 229     | 30.1  | 17.3  | 25.9  |

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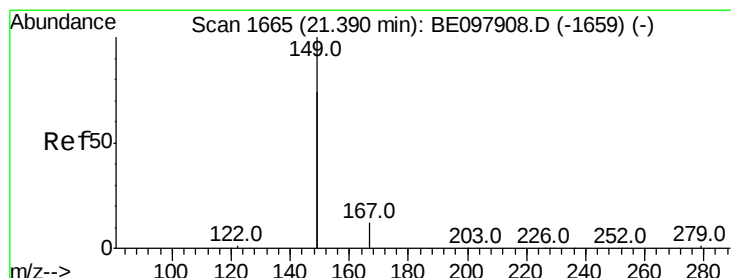
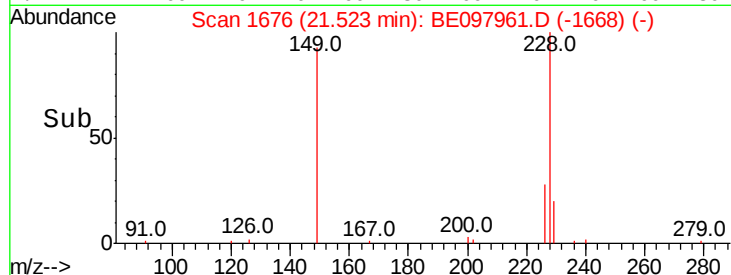
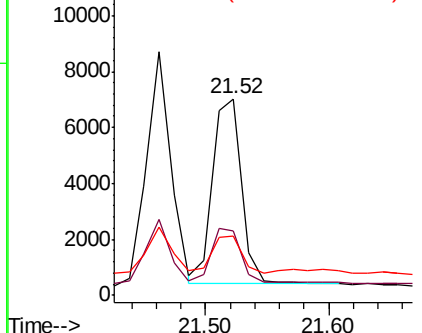


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.152 ng  
RT: 21.39 min Scan# 1665  
Delta R.T. -0.00 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

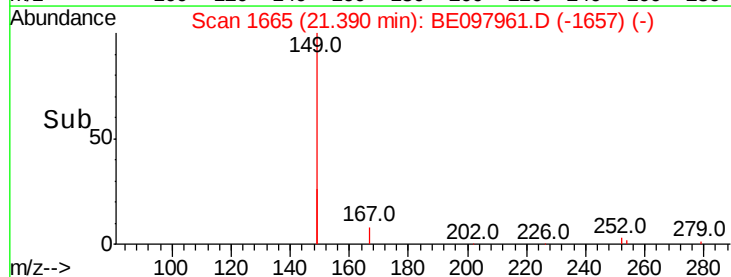
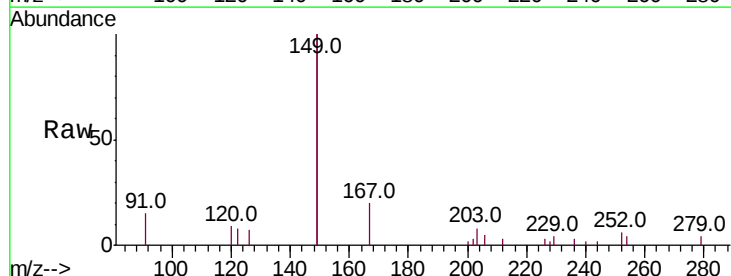
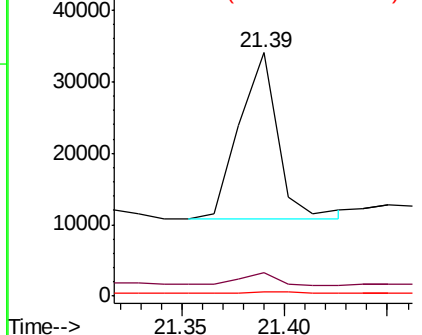
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 6.9   | 5.6   | 8.4   |
| 279     | 1.3   | 0.9   | 1.3   |

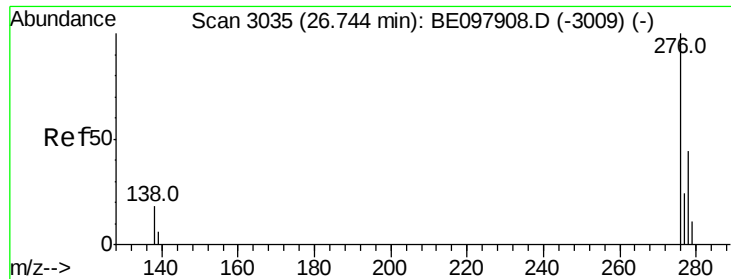
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.107 ng

RT: 26.73 min Scan# 3031

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

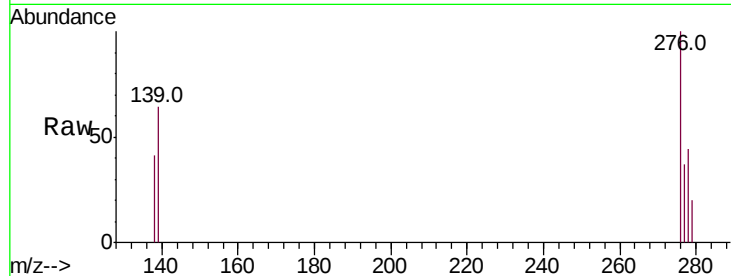
ClientSampleId :

AOC5-01MS

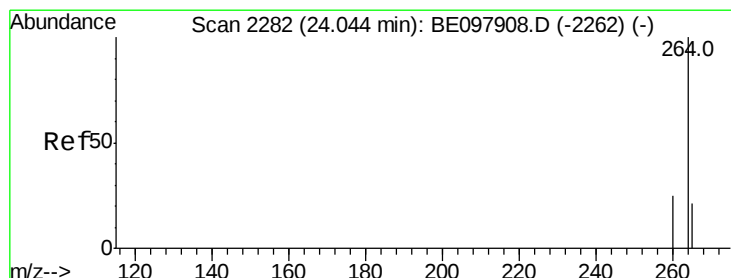
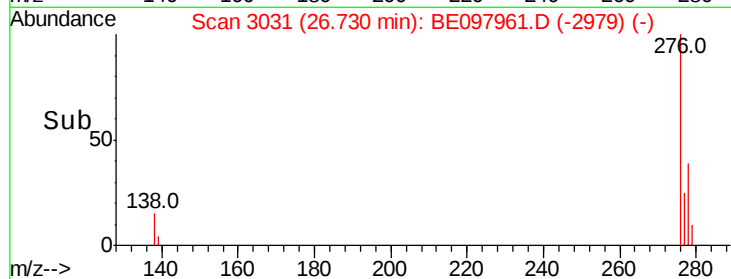
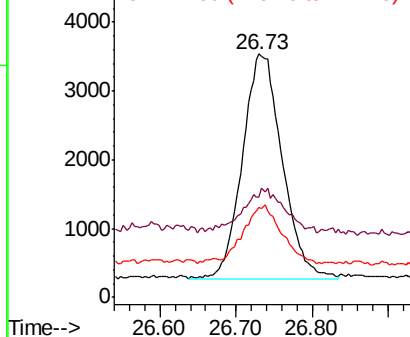
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 11921 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 21.5  | 17.0  | 25.6  |
| 277       | 24.5  | 20.5  | 30.7  |

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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



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.03 min Scan# 2279

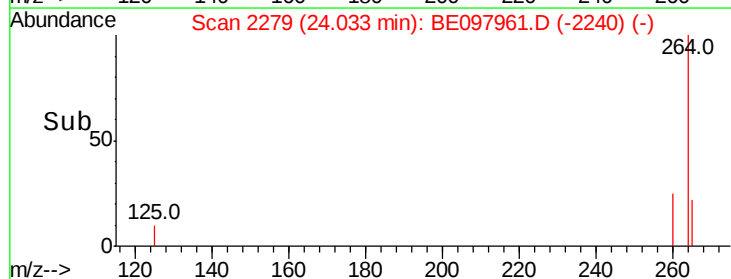
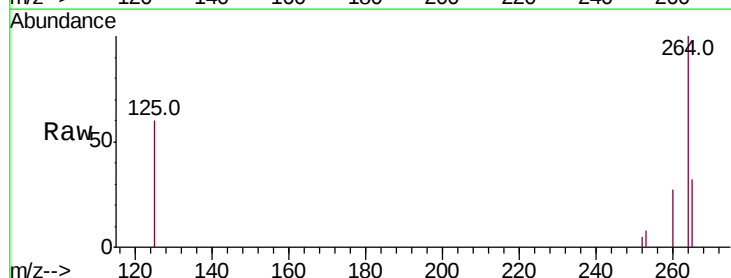
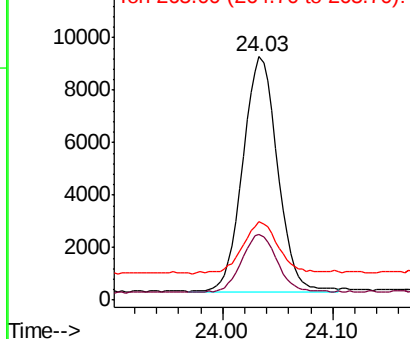
Delta R.T. -0.01 min

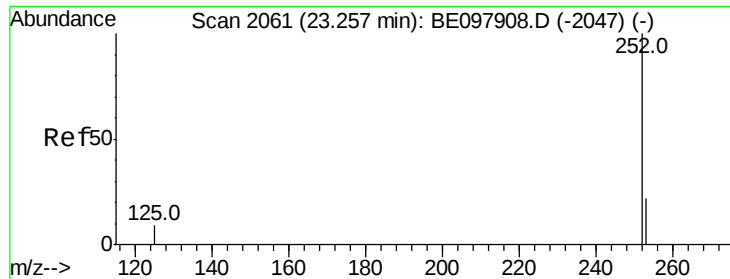
Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 19439 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 27.0  | 21.1  | 31.7  |
| 265       | 32.3  | 29.2  | 43.8  |

Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.192 ng

RT: 23.25 min Scan# 2059

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

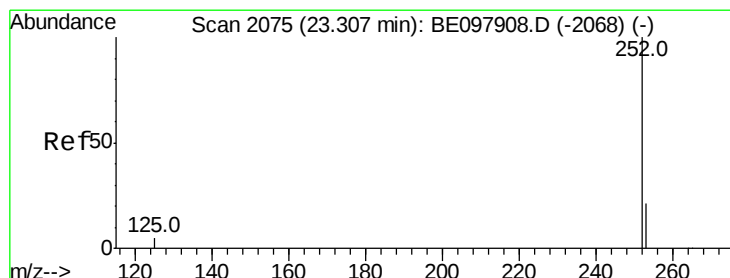
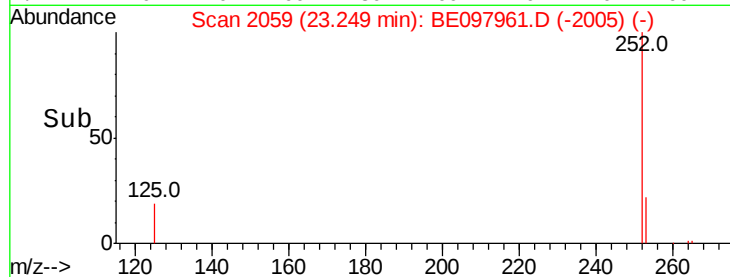
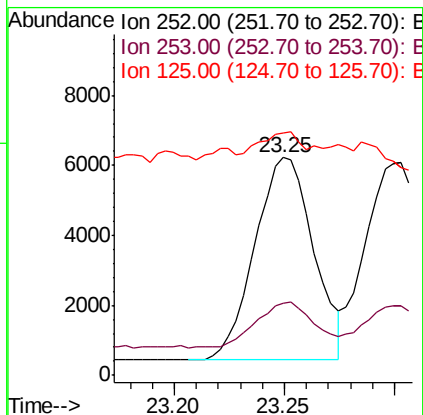
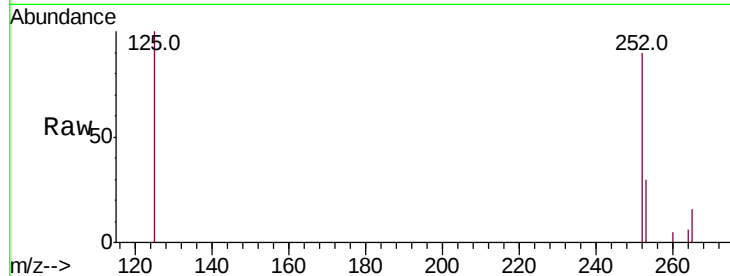
ClientSampleId :

AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.9  | 20.6  | 31.0# |
| 125     | 111.3 | 14.3  | 21.5# |

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#36

Benzo(k)fluoranthene

Concen: 0.183 ng

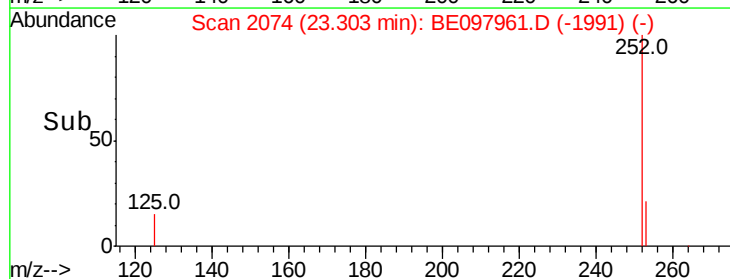
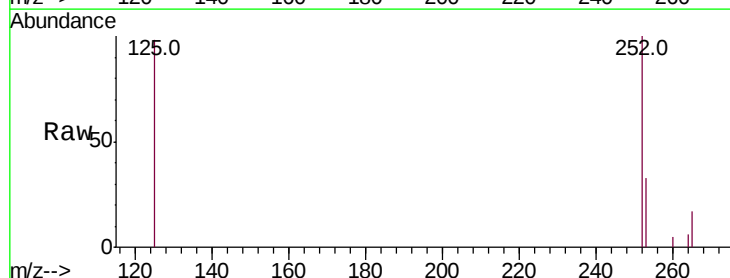
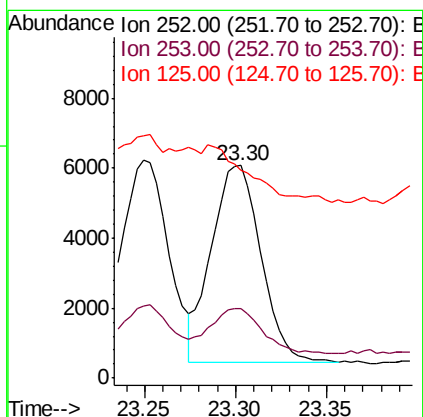
RT: 23.30 min Scan# 2074

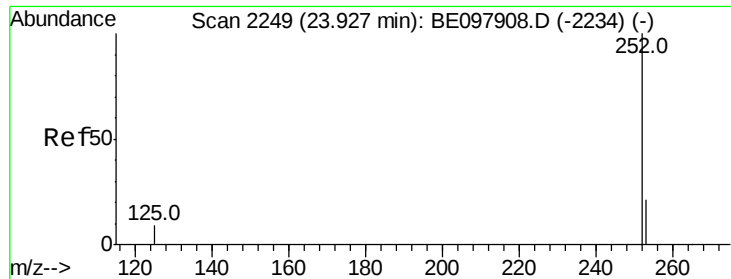
Delta R.T. -0.00 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.7  | 20.4  | 30.6# |
| 125     | 97.9  | 14.6  | 21.8# |





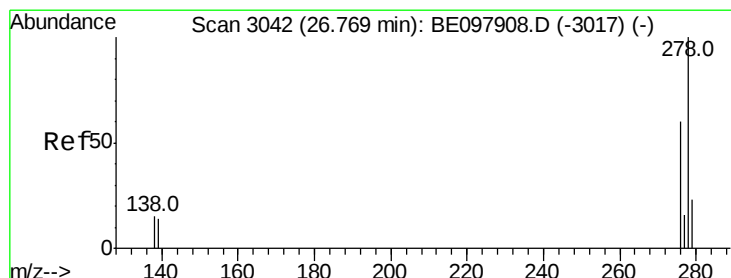
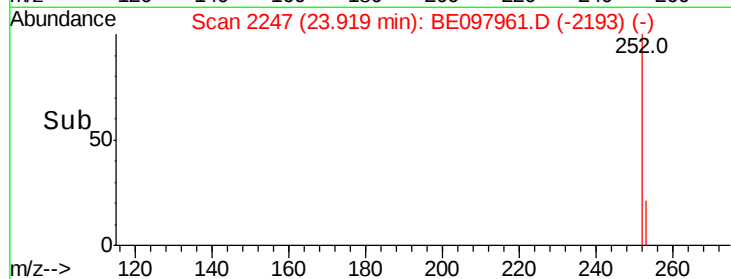
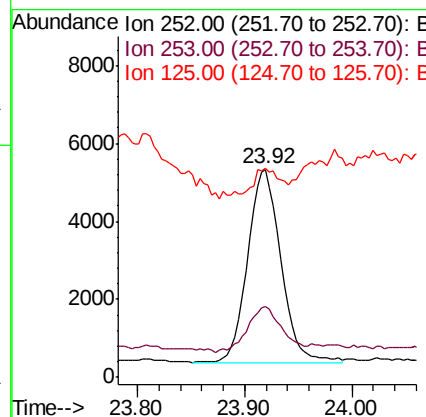
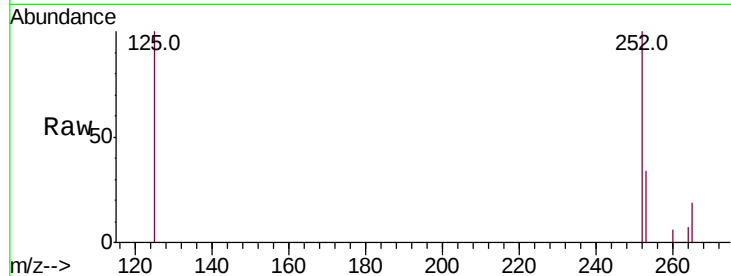
#37  
Benzo(a)pyrene  
Concen: 0.194 ng  
RT: 23.92 min Scan# 2247  
Delta R.T. -0.01 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

Instrument :  
BNA\_E  
ClientSampleId :  
AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 34.0  | 20.6  | 31.0# |
| 125     | 100.3 | 15.6  | 23.4# |

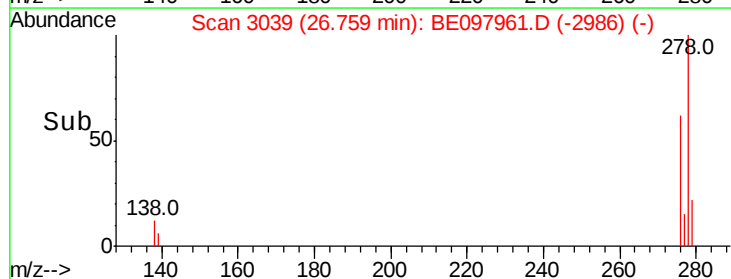
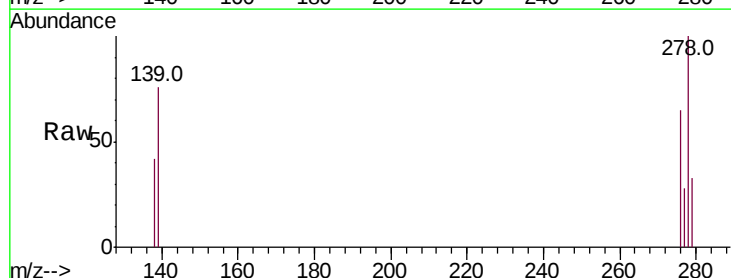
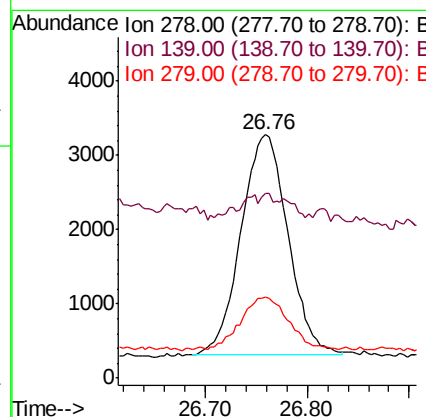
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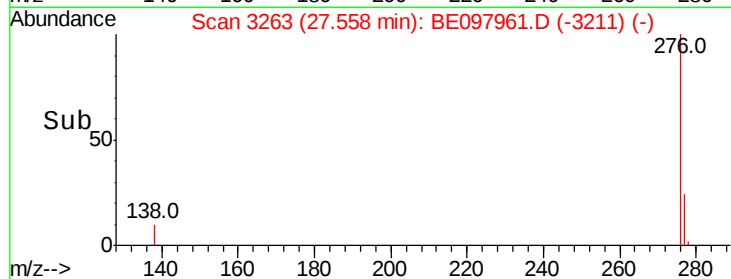
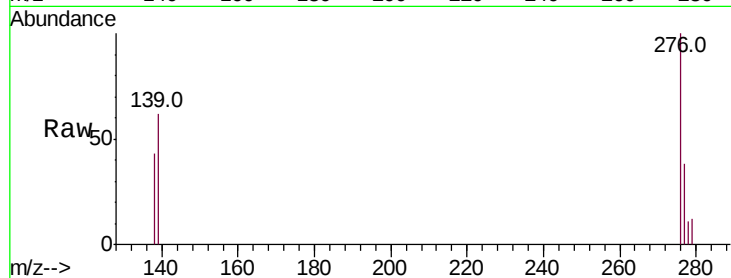
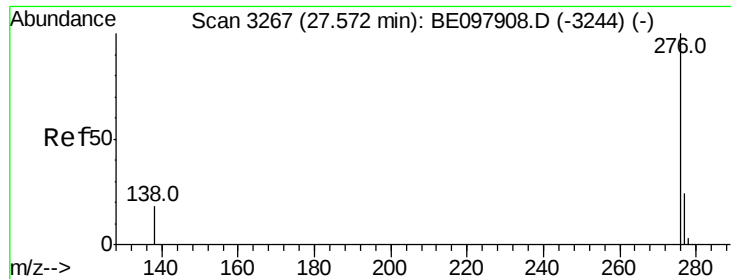
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.178 ng  
RT: 26.76 min Scan# 3039  
Delta R.T. -0.01 min  
Lab File: BE097961.D  
Acq: 17 Oct 2018 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 75.9  | 16.3  | 24.5# |
| 279     | 33.2  | 21.4  | 32.2# |





#39

Benzo(a,h,i)perylene

Concen: 0.177 ng

RT: 27.56 min Scan# 3263

Delta R.T. -0.01 min

Lab File: BE097961.D

Acq: 17 Oct 2018 23:48

Instrument :

BNA\_E

ClientSampleId :

AOC5-01MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 38.0  | 22.1  | 33.1# |
| 138     | 42.6  | 19.3  | 28.9# |

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