

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052119\  
 Data File : BE099691.D  
 Acq On : 21 May 2019 16:21  
 Operator : JU/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 21 18:54:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 20 19:29:40 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 1819     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.63 | 136  | 6703     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.48 | 164  | 4870     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 14311    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 21416    | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 23.96 | 264  | 25035    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.37  | 112 | 1769  | 0.38 | ng | 0.00 |
| 5) Phenol-d6                | 6.98  | 99  | 2273  | 0.37 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 2147  | 0.37 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 4107  | 0.36 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 1108  | 0.43 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.12 | 172 | 6436  | 0.35 | ng | 0.01 |
| 25) Fluoranthene-d10        | 19.27 | 212 | 70129 | 0.36 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.86 | 244 | 14275 | 0.37 | ng | 0.00 |

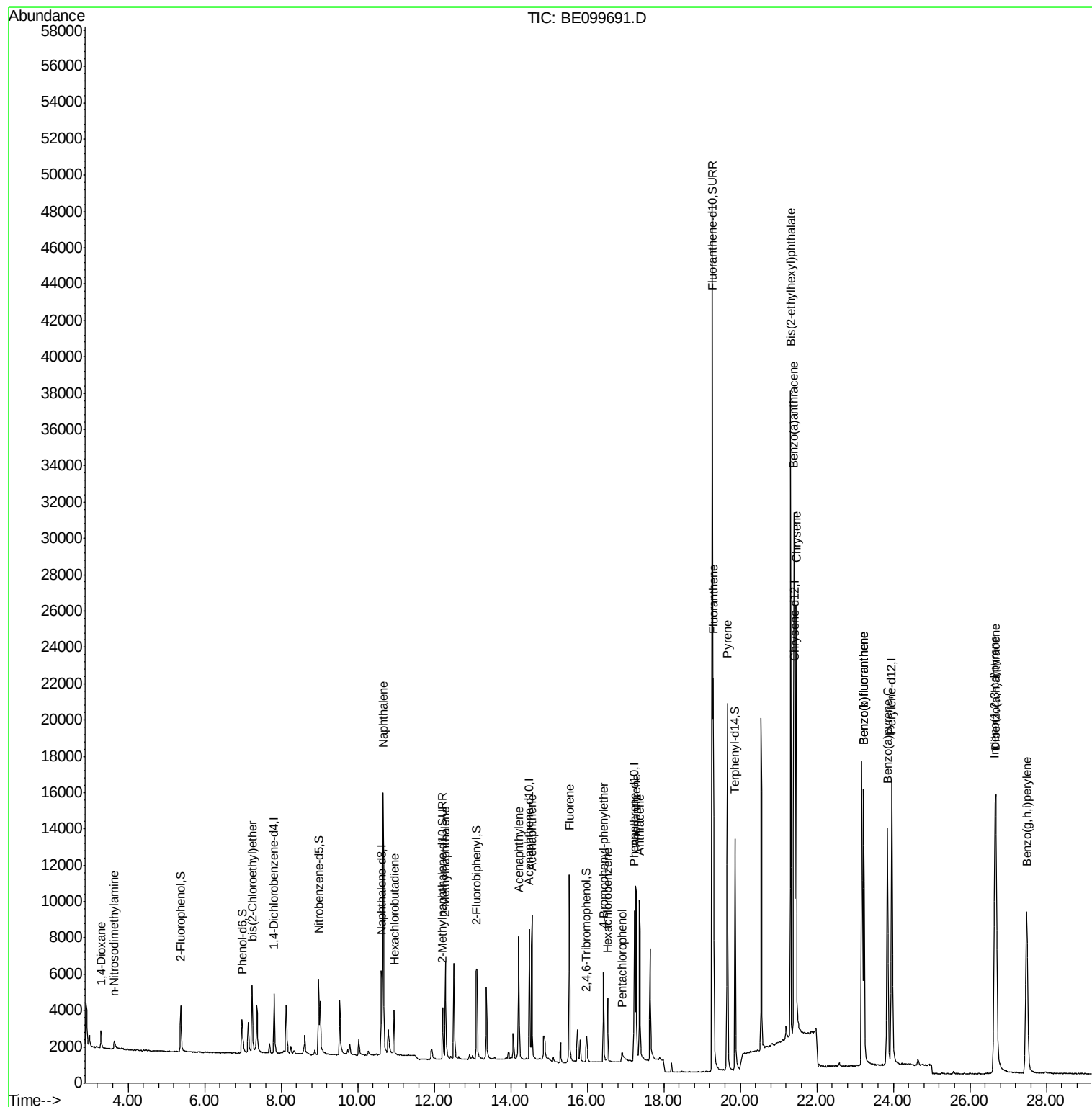
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.29  | 88  | 815   | 0.303  | ng | # 89 |
| 3) n-Nitrosodimethylamine      | 3.64  | 42  | 406   | 0.273  | ng | # 83 |
| 6) bis(2-Chloroethyl)ether     | 7.24  | 93  | 1915  | 0.354  | ng | 93   |
| 9) Naphthalene                 | 10.67 | 128 | 25044 | 0.349  | ng | 100  |
| 10) Hexachlorobutadiene        | 10.95 | 225 | 1834  | 0.347  | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.29 | 142 | 4262  | 0.365  | ng | 97   |
| 16) Acenaphthylene             | 14.21 | 152 | 8289  | 0.365  | ng | 98   |
| 17) Acenaphthene               | 14.56 | 154 | 4608  | 0.362  | ng | 100  |
| 18) Fluorene                   | 15.53 | 166 | 6634  | 0.354  | ng | 100  |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248 | 2877  | 0.349  | ng | 97   |
| 21) Hexachlorobenzene          | 16.53 | 284 | 3121  | 0.370  | ng | 100  |
| 22) Pentachlorophenol          | 16.91 | 266 | 818   | 0.492  | ng | 97   |
| 23) Phenanthrene               | 17.28 | 178 | 12836 | 0.367  | ng | 99   |
| 24) Anthracene                 | 17.36 | 178 | 11329 | 0.357  | ng | 99   |
| 26) Fluoranthene               | 19.30 | 202 | 19857 | 0.359  | ng | 99   |
| 28) Pyrene                     | 19.66 | 202 | 20881 | 0.388  | ng | 100  |
| 30) Benzo(a)anthracene         | 21.40 | 228 | 24790 | 0.407  | ng | 100  |
| 31) Chrysene                   | 21.46 | 228 | 26042 | 0.400  | ng | 97   |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 35885 | 0.512  | ng | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.66 | 276 | 30326 | 0.386  | ng | 99   |
| 35) Benzo(b)fluoranthene       | 23.23 | 252 | 24767 | 0.361  | ng | 99   |
| 36) Benzo(k)fluoranthene       | 23.23 | 252 | 25309 | 0.354  | ng | 99   |
| 37) Benzo(a)pyrene             | 23.85 | 252 | 23760 | 0.360  | ng | # 99 |
| 38) Dibenzo(a,h)anthracene     | 26.68 | 278 | 24627 | 0.355  | ng | 98   |
| 39) Benzo(g,h,i)perylene       | 27.49 | 276 | 24737 | 0.353  | ng | 99   |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052119\  
Data File : BE099691.D  
Acq On : 21 May 2019 16:21  
Operator : JU/SJ  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: May 21 18:54:01 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 20 19:29:40 2019  
Response via : Initial Calibration



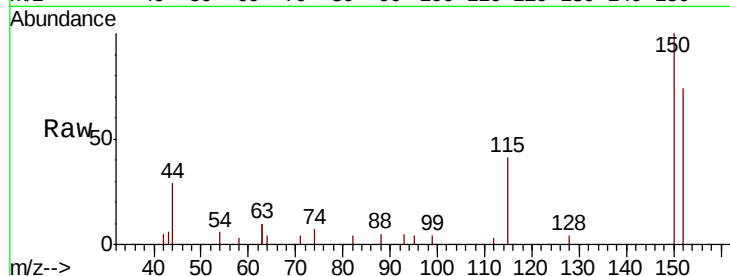


#1

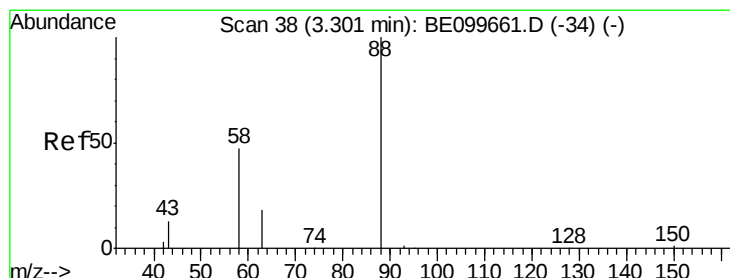
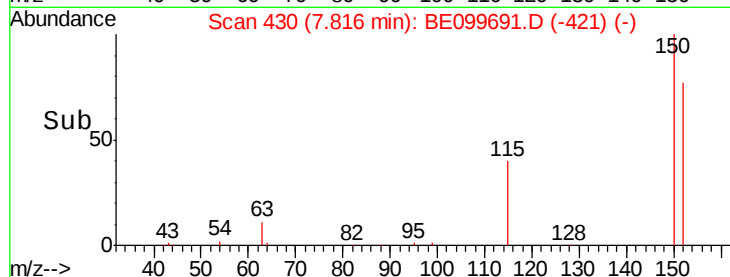
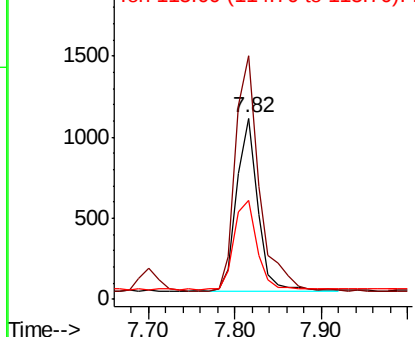
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.82 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 1819  
Ion Ratio Lower Upper  
152 100  
150 134.6 109.2 163.8  
115 55.0 43.7 65.5



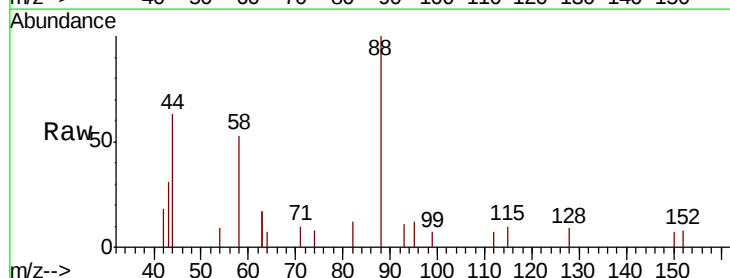
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



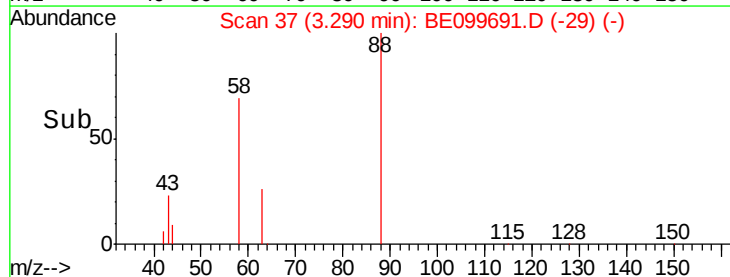
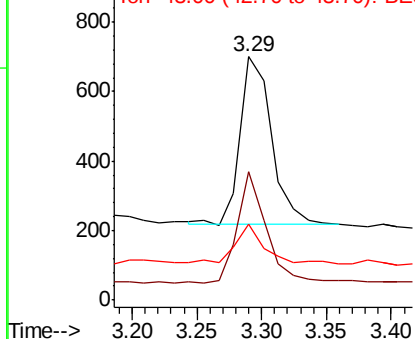
#2

1,4-Dioxane  
Concen: 0.303 ng  
RT: 3.29 min Scan# 37  
Delta R.T. -0.01 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Tgt Ion: 88 Resp: 815  
Ion Ratio Lower Upper  
88 100  
58 60.1 41.8 62.8  
43 23.3 15.0 22.4#



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



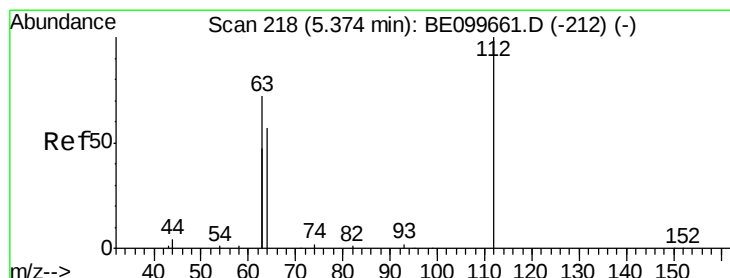
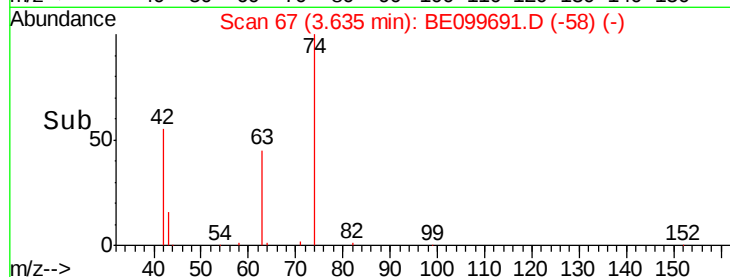
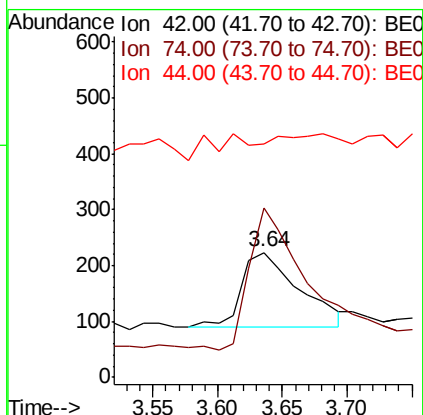
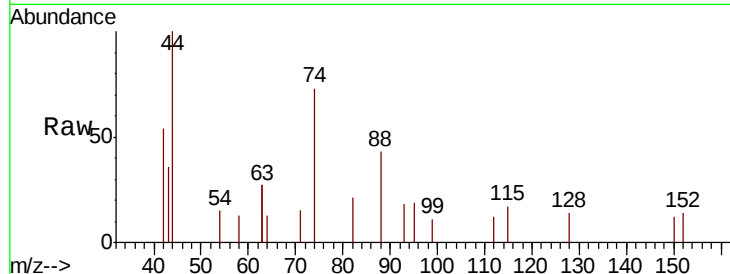


#3

n-Nitrosodimethylamine  
 Concen: 0.273 ng  
 RT: 3.64 min Scan# 67  
 Delta R.T. 0.00 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

Instrument :  
 BNA\_E  
 ClientSampled :

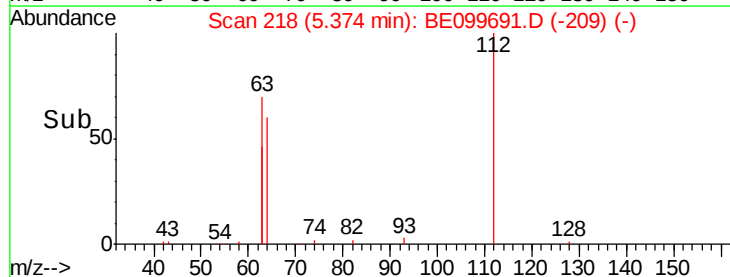
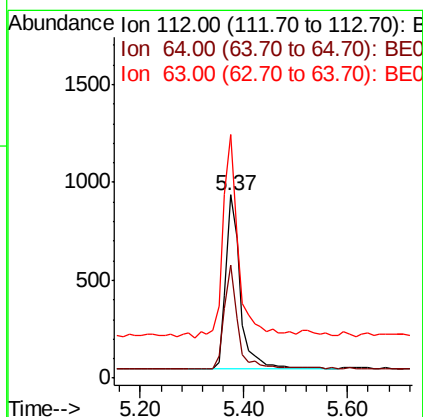
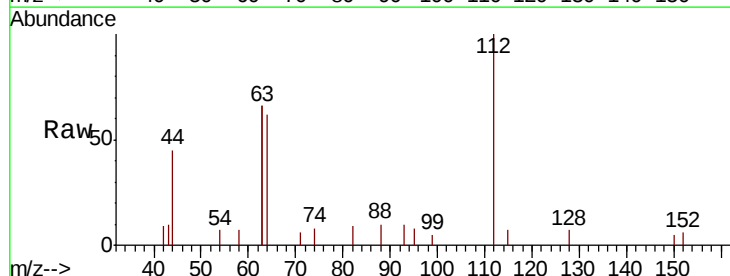
| Tot Ion | 42    | Resp  | 406   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 42      | 100   |       |       |
| 74      | 184.5 | 129.2 | 193.8 |
| 44      | 0.0   | 0.0   | 0.0   |

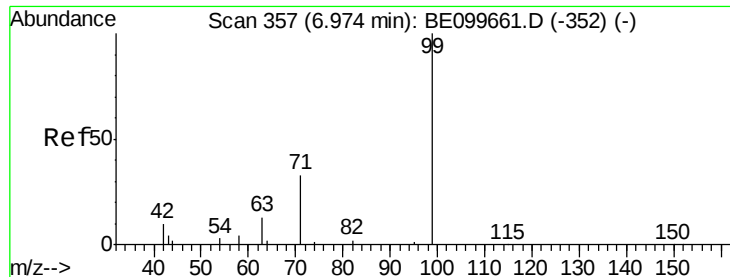


#4

2-Fluorophenol  
 Concen: 0.385 ng  
 RT: 5.37 min Scan# 218  
 Delta R.T. 0.00 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

| Tgt Ion | 112   | Resp  | 1769  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 112     | 100   |       |       |
| 64      | 54.8  | 43.4  | 65.2  |
| 63      | 121.0 | 96.9  | 145.3 |





#5

Phenol-d6

Concen: 0.374 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampled :

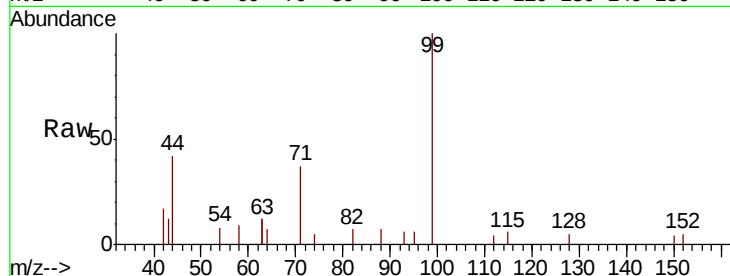
Tot Ion: 99 Resp: 2273

Ion Ratio Lower Upper

99 100

42 15.3 12.2 18.2

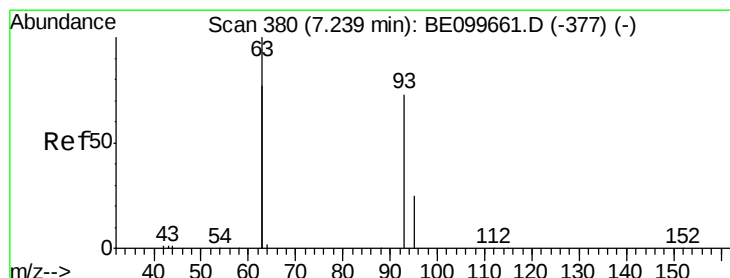
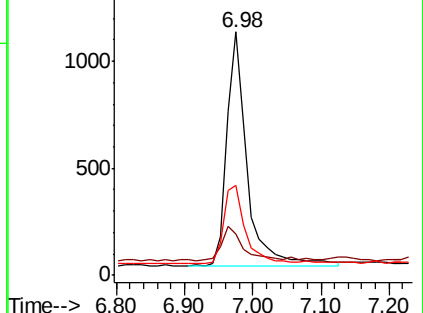
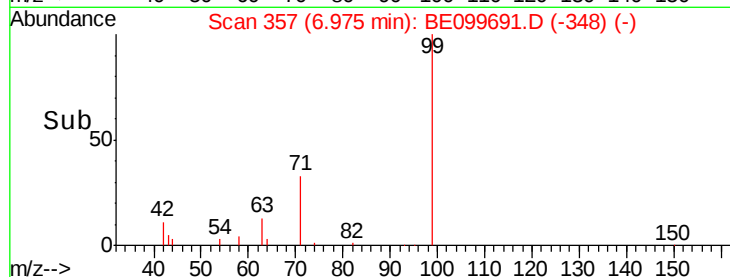
71 37.8 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.354 ng

RT: 7.24 min Scan# 380

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

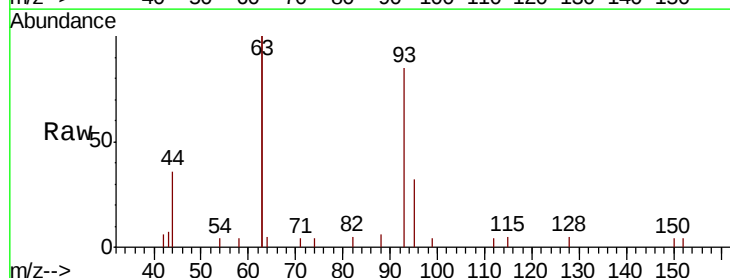
Tgt Ion: 93 Resp: 1915

Ion Ratio Lower Upper

93 100

63 245.9 207.8 311.6

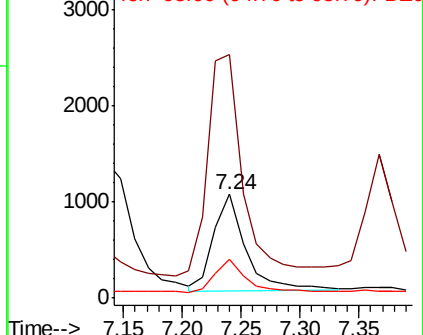
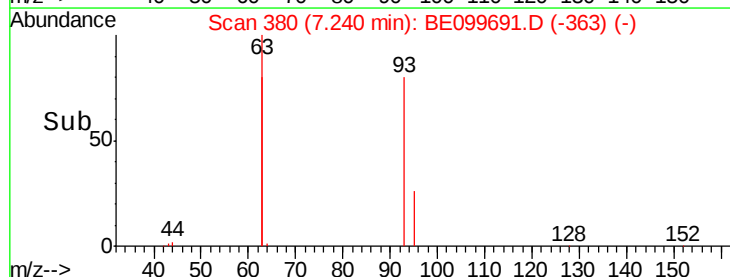
95 32.0 25.9 38.9

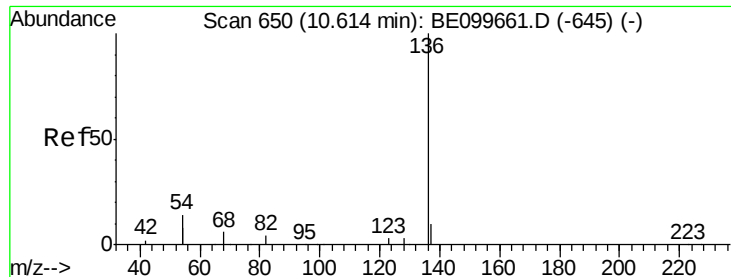


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.01 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 6703

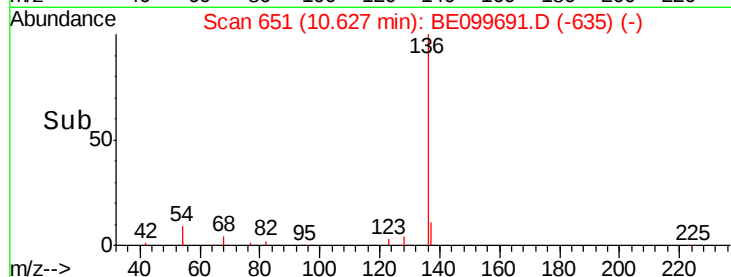
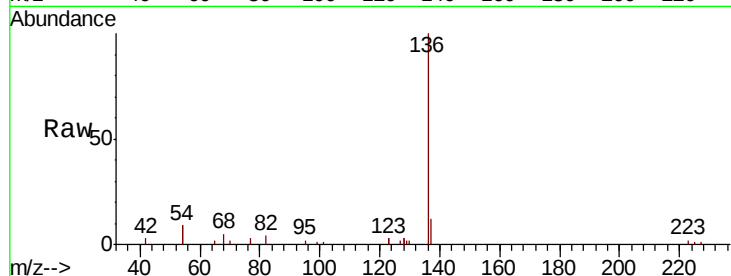
Ion Ratio Lower Upper

136 100

137 11.9 9.0 13.6

54 17.8 22.3 33.5#

68 5.1 6.0 9.0#

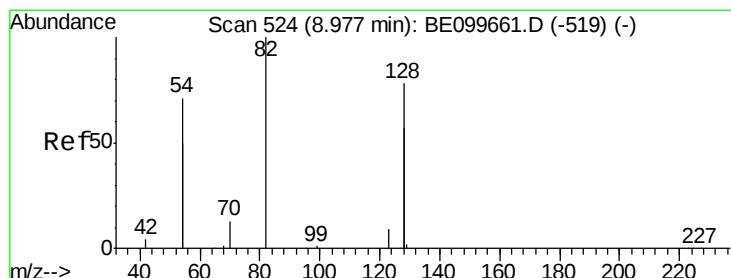
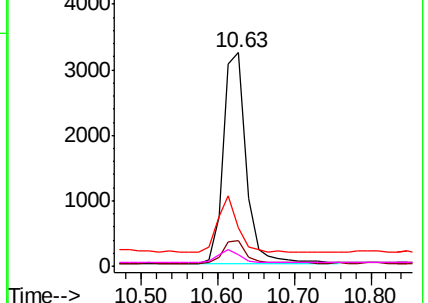


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.370 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

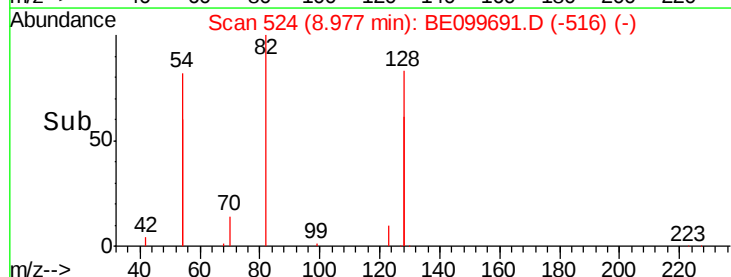
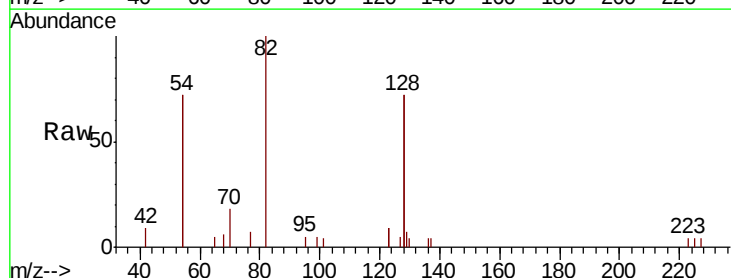
Tgt Ion: 82 Resp: 2147

Ion Ratio Lower Upper

82 100

128 144.7 117.7 176.5

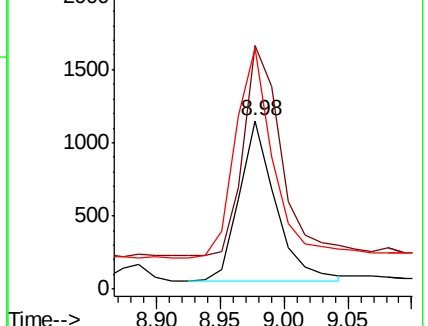
54 143.7 106.6 160.0

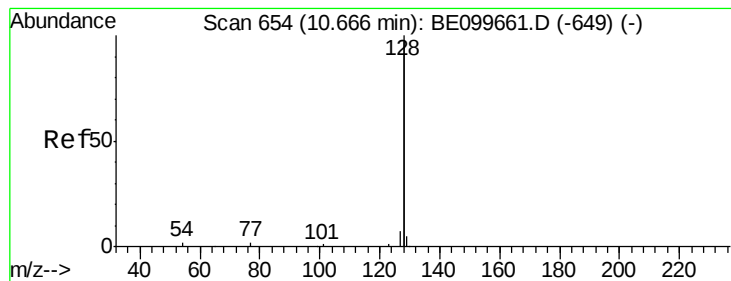


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.349 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

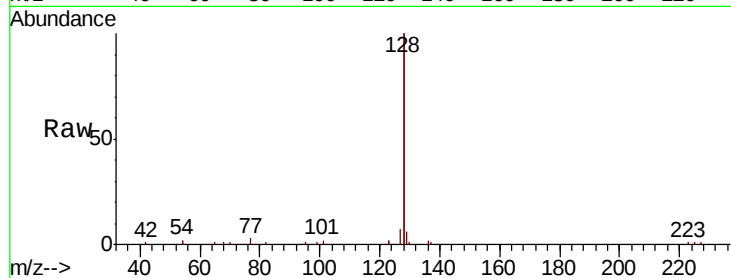
Tot Ion:128 Resp: 25044

Ion Ratio Lower Upper

128 100

129 3.1 2.4 3.6

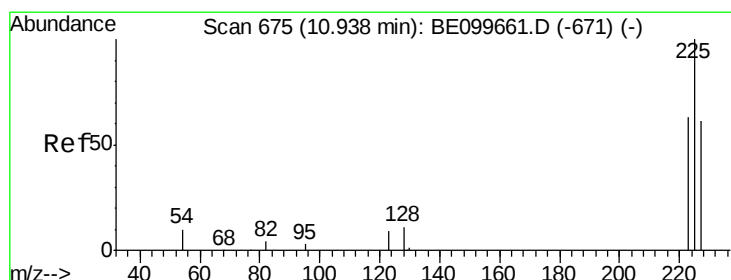
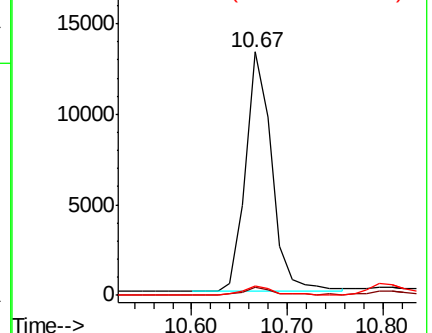
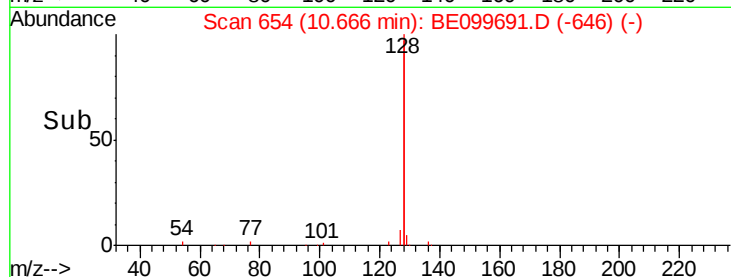
127 3.7 2.9 4.3



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



#10

Hexachlorobutadiene

Concen: 0.347 ng

RT: 10.95 min Scan# 676

Delta R.T. 0.01 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

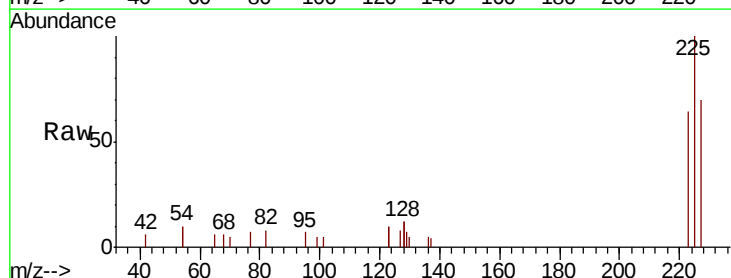
Tgt Ion:225 Resp: 1834

Ion Ratio Lower Upper

225 100

223 63.2 51.8 77.6

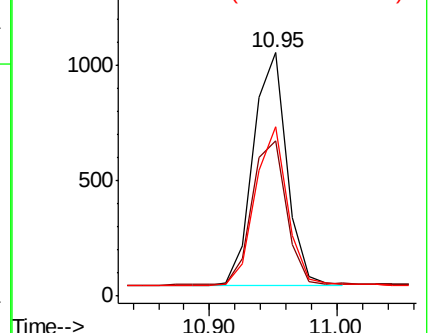
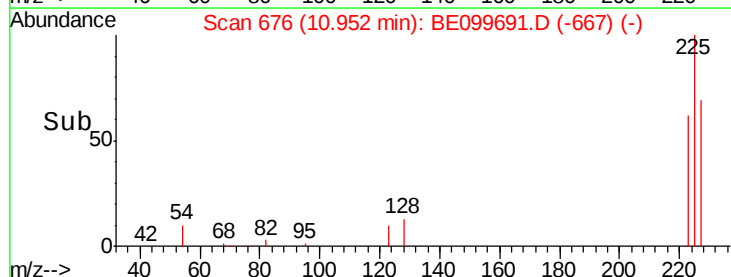
227 65.6 52.6 79.0

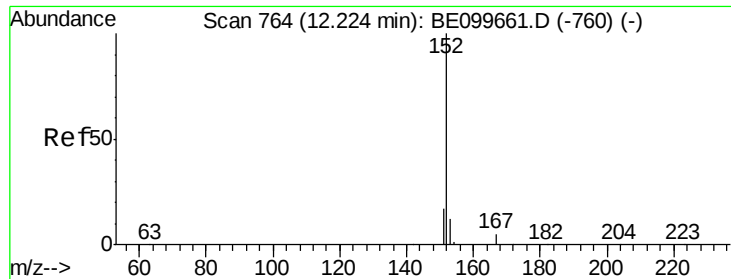


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

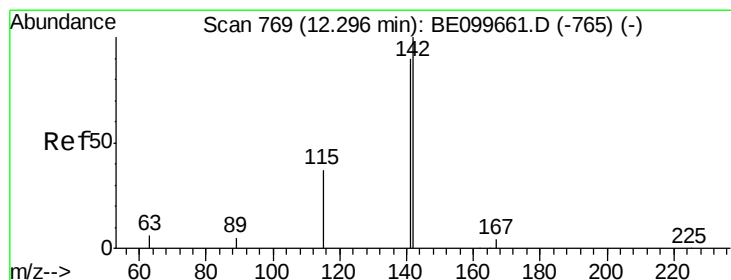
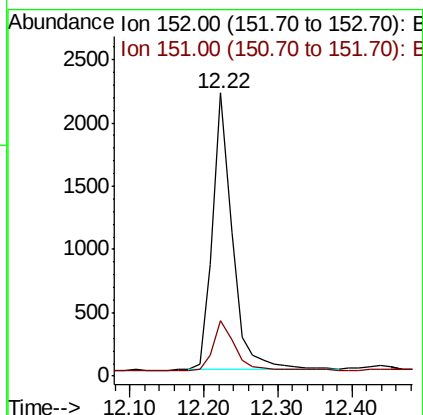
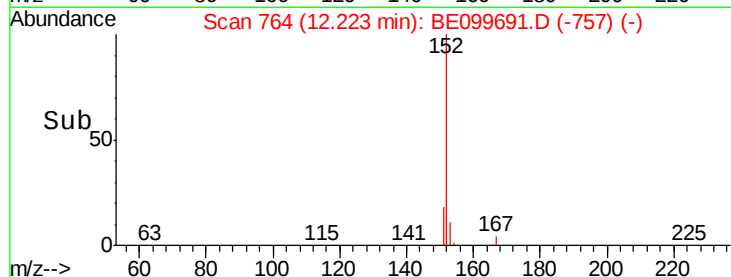
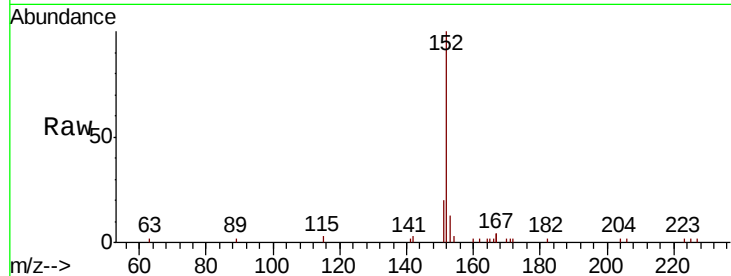




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.355 ng  
 RT: 12.22 min Scan# 764  
 Delta R.T. -0.00 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

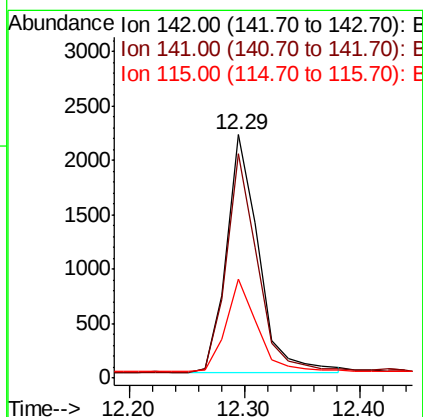
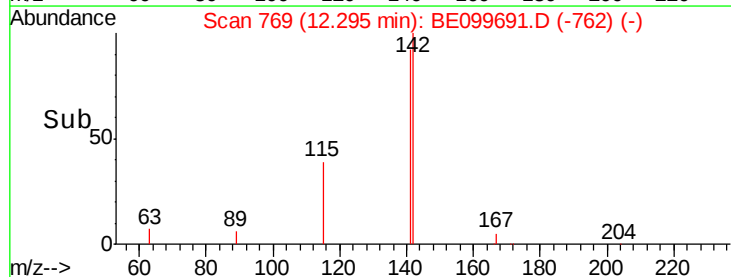
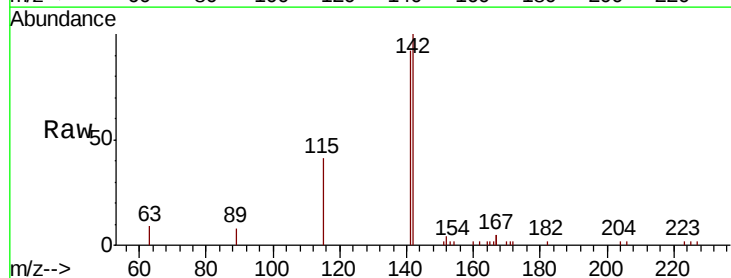
Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:152 Resp: 4107  
 Ion Ratio Lower Upper  
 152 100  
 151 19.8 15.0 22.4



#12  
 2-Methylnaphthalene  
 Concen: 0.365 ng  
 RT: 12.29 min Scan# 769  
 Delta R.T. -0.00 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

Tgt Ion:142 Resp: 4262  
 Ion Ratio Lower Upper  
 142 100  
 141 92.2 72.0 108.0  
 115 40.9 31.0 46.4

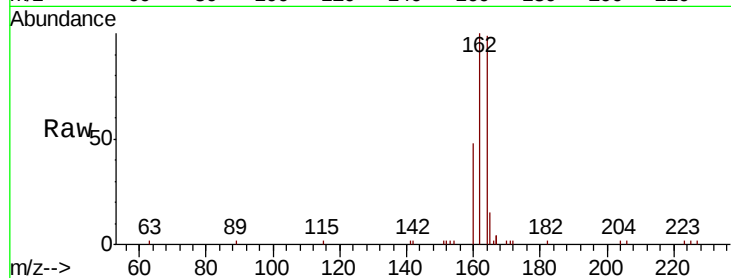




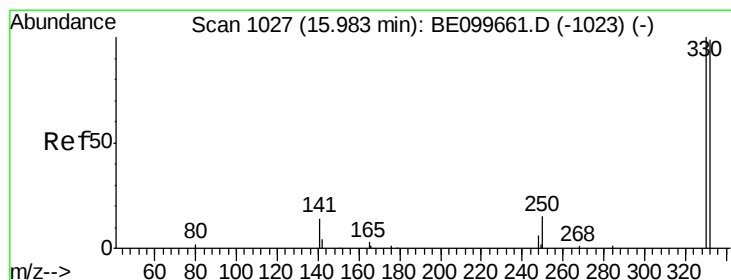
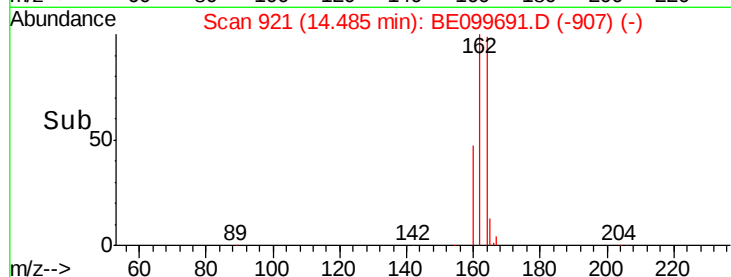
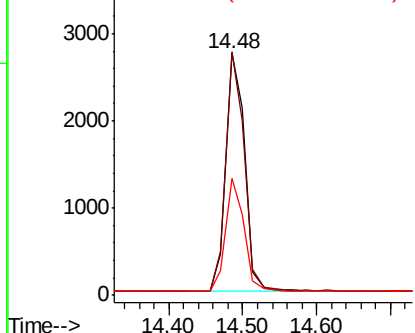
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.48 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 4870  
Ion Ratio Lower Upper  
164 100  
162 100.6 76.5 114.7  
160 48.2 37.4 56.2

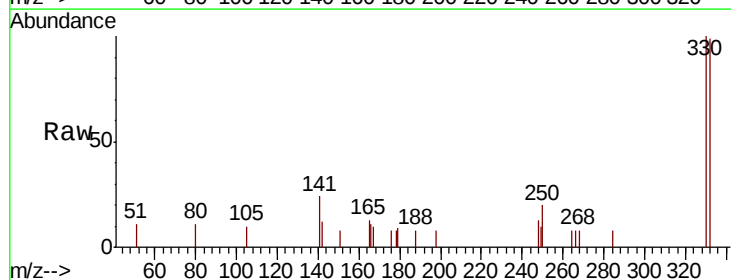


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

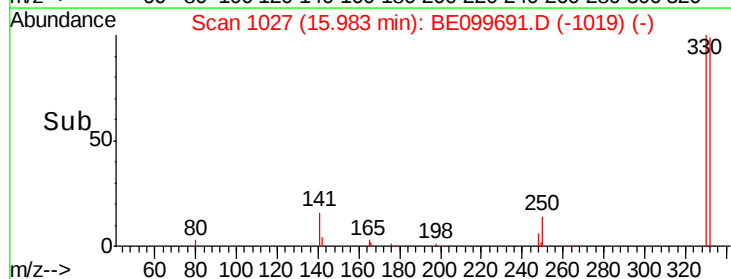
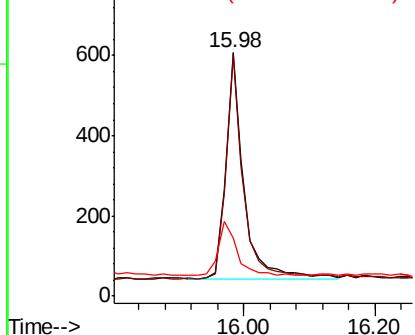


#14  
2,4,6-Tribromophenol  
Concen: 0.429 ng  
RT: 15.98 min Scan# 1027  
Delta R.T. 0.00 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Tgt Ion:330 Resp: 1108  
Ion Ratio Lower Upper  
330 100  
332 93.8 77.3 115.9  
141 24.5 18.9 28.3



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

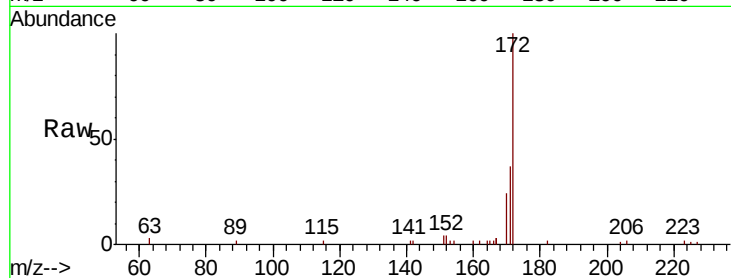




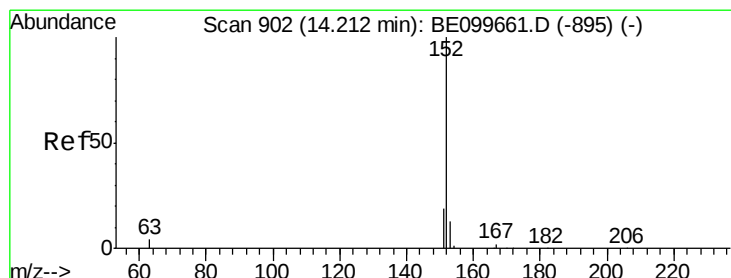
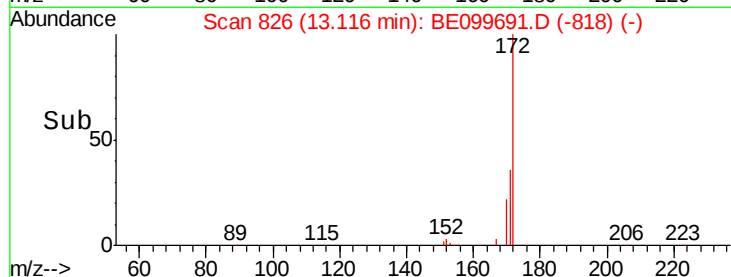
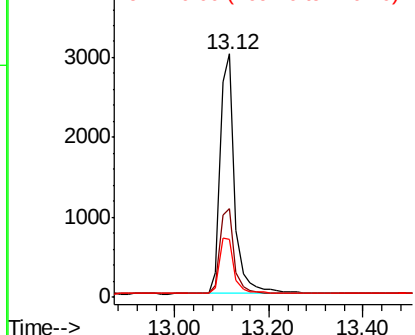
#15  
2-Fluorobiphenyl  
Concen: 0.348 ng  
RT: 13.12 min Scan# 826  
Delta R.T. 0.01 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 6436  
Ion Ratio Lower Upper  
172 100  
171 36.7 28.7 43.1  
170 23.6 20.9 31.3

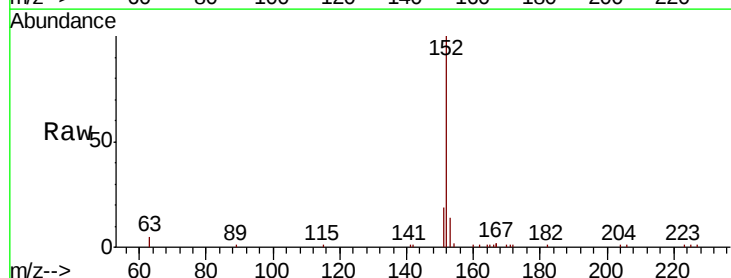


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

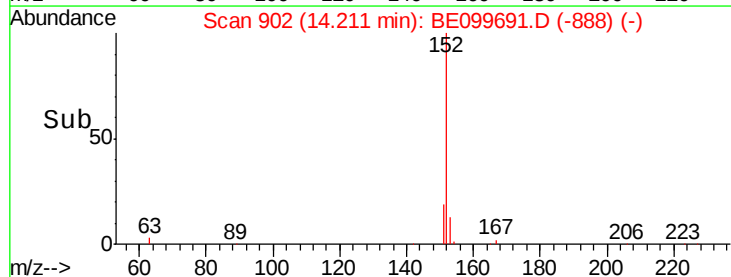
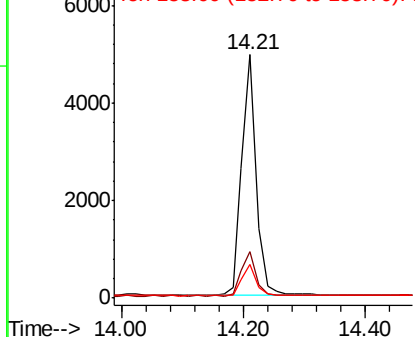


#16  
Acenaphthylene  
Concen: 0.365 ng  
RT: 14.21 min Scan# 902  
Delta R.T. -0.00 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Tgt Ion:152 Resp: 8289  
Ion Ratio Lower Upper  
152 100  
151 18.9 15.9 23.9  
153 12.9 10.6 16.0



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

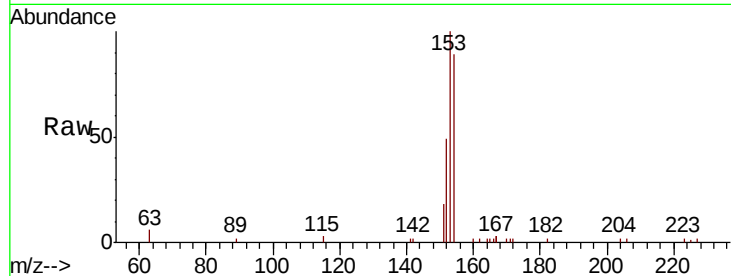




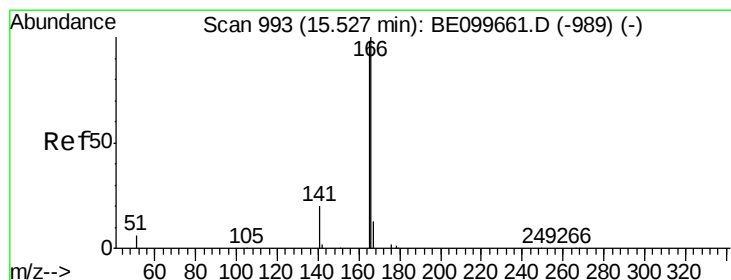
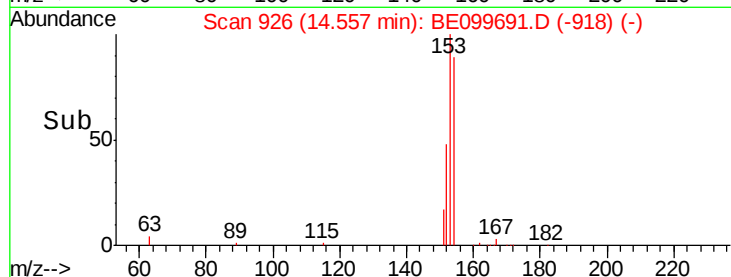
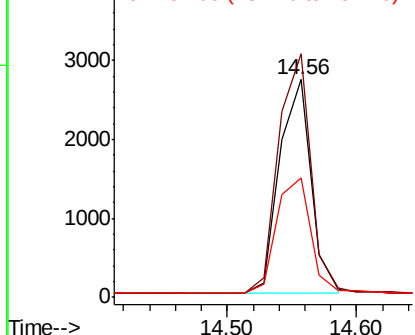
#17  
Acenaphthene  
Concen: 0.362 ng  
RT: 14.56 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 4608  
Ion Ratio Lower Upper  
154 100  
153 114.8 91.8 137.6  
152 57.6 46.0 69.0

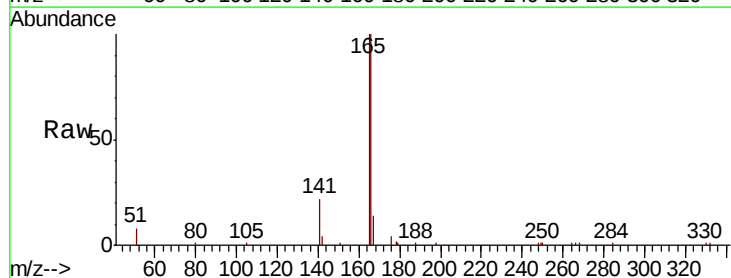


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

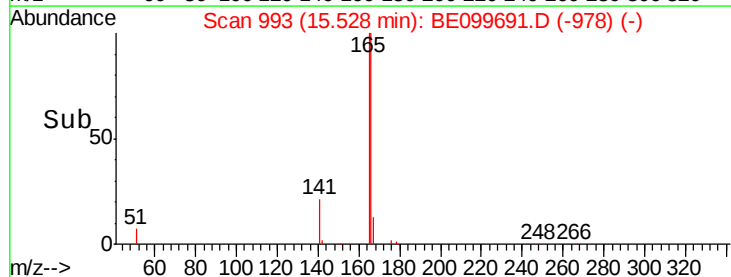
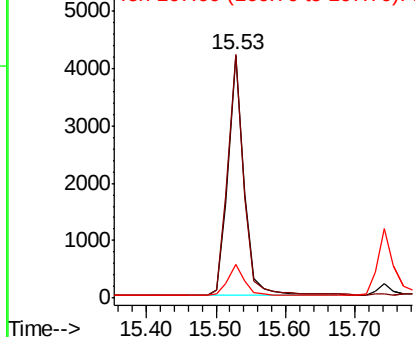


#18  
Fluorene  
Concen: 0.354 ng  
RT: 15.53 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Tgt Ion:166 Resp: 6634  
Ion Ratio Lower Upper  
166 100  
165 100.8 80.3 120.5  
167 13.4 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

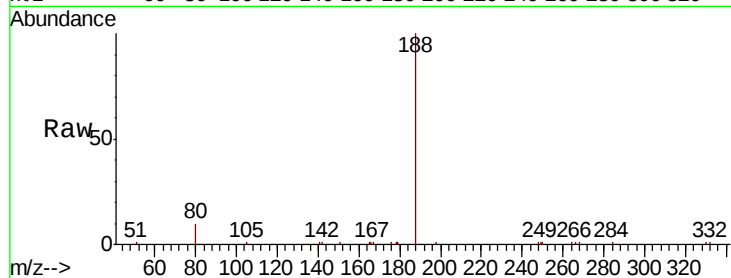
Tot Ion:188 Resp: 14311

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

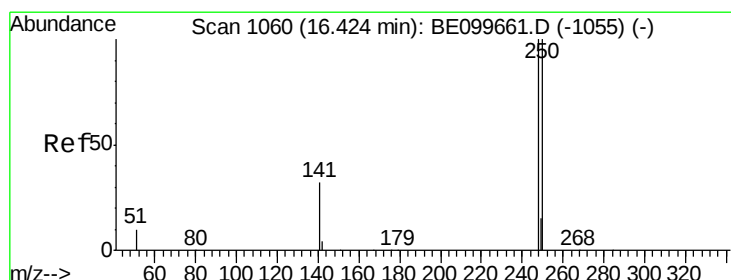
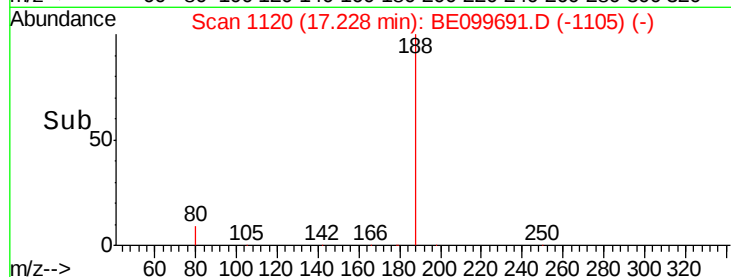
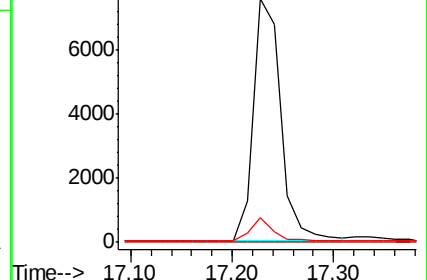
80 10.0 6.7 10.1



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: 0.349 ng

RT: 16.42 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

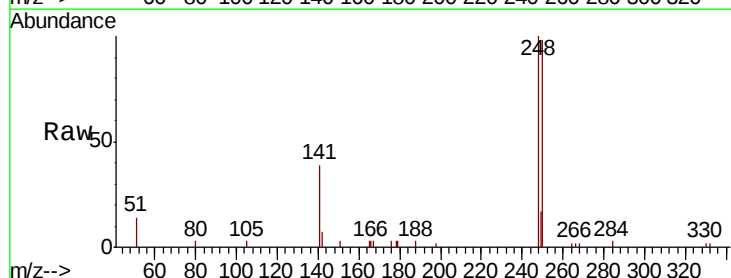
Tgt Ion:248 Resp: 2877

Ion Ratio Lower Upper

248 100

250 98.2 79.8 119.8

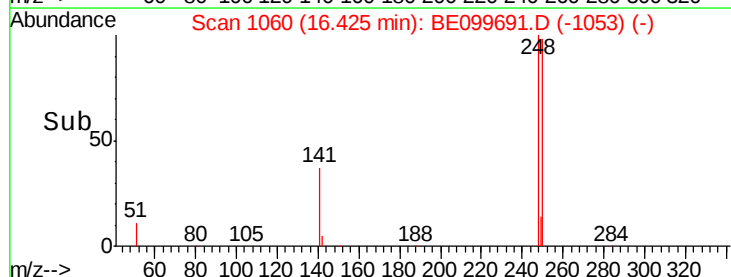
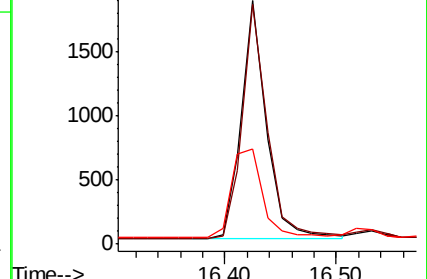
141 38.8 27.0 40.6

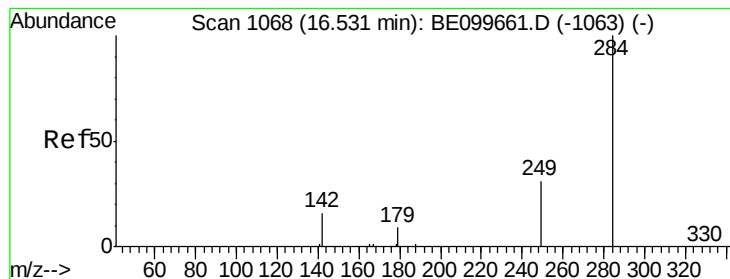


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.370 ng

RT: 16.53 min Scan# 1068

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

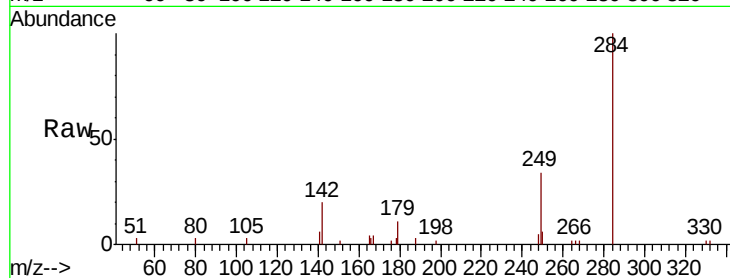
Tot Ion:284 Resp: 3121

Ion Ratio Lower Upper

284 100

142 22.4 17.8 26.6

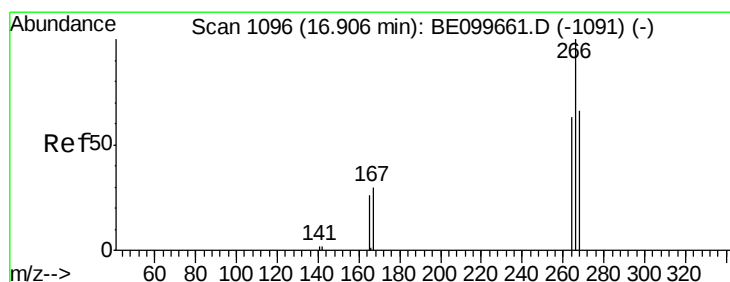
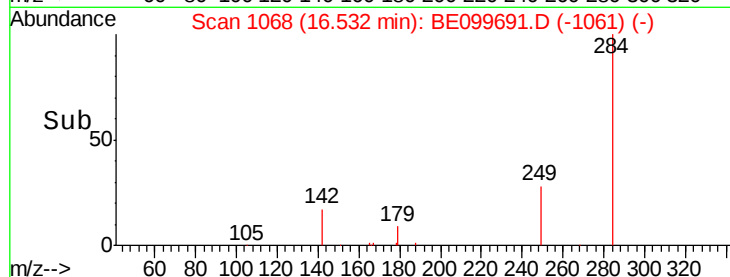
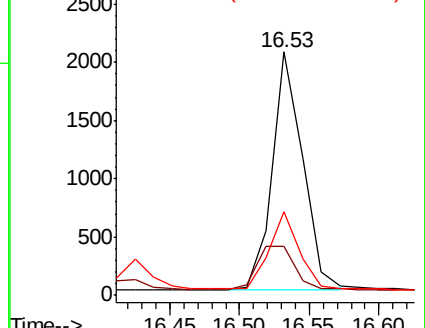
249 31.1 24.8 37.2



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: 0.492 ng

RT: 16.91 min Scan# 1096

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

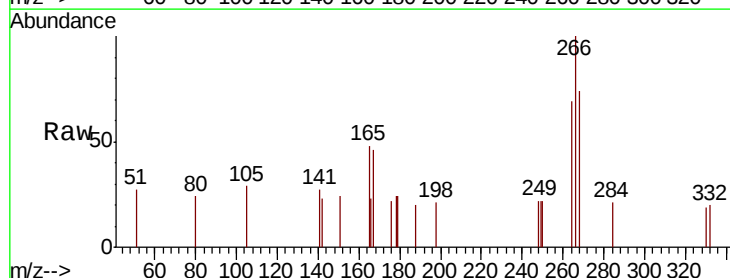
Tgt Ion:266 Resp: 818

Ion Ratio Lower Upper

266 100

264 68.6 57.2 85.8

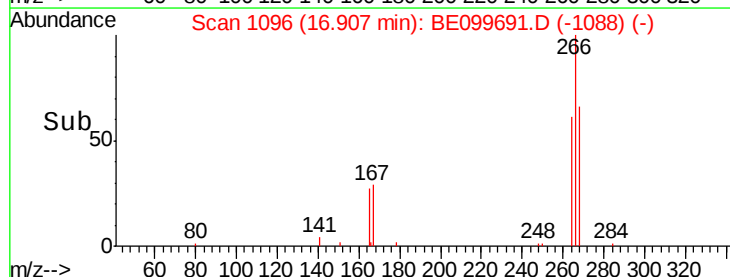
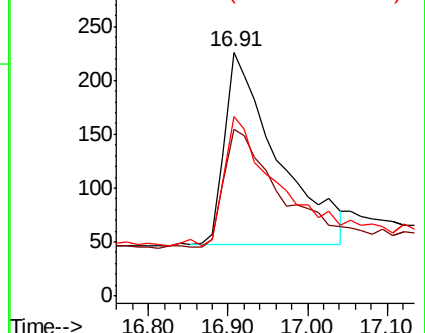
268 73.9 60.5 90.7

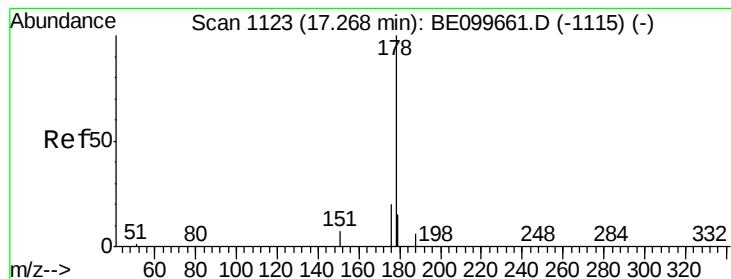


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.367 ng

RT: 17.28 min Scan# 1124

Delta R.T. 0.01 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

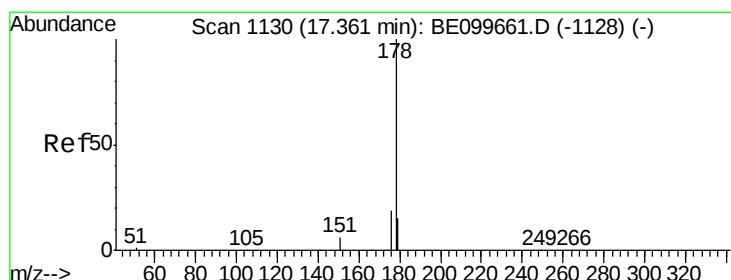
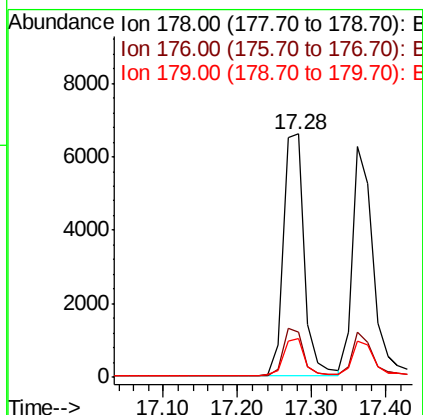
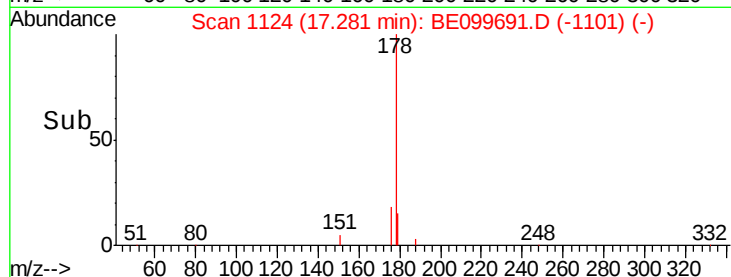
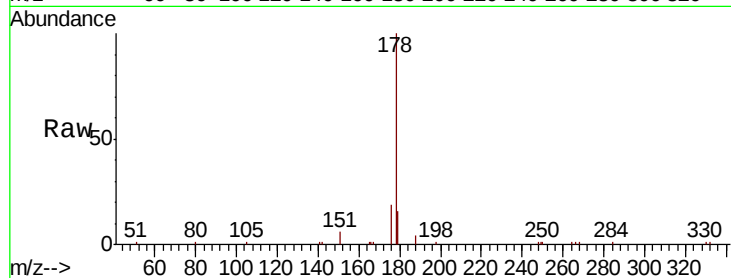
Tot Ion:178 Resp: 12836

Ion Ratio Lower Upper

178 100

176 18.8 15.6 23.4

179 14.9 12.2 18.4



#24

Anthracene

Concen: 0.357 ng

RT: 17.36 min Scan# 1130

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

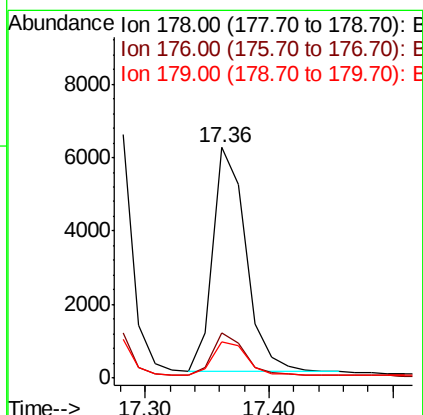
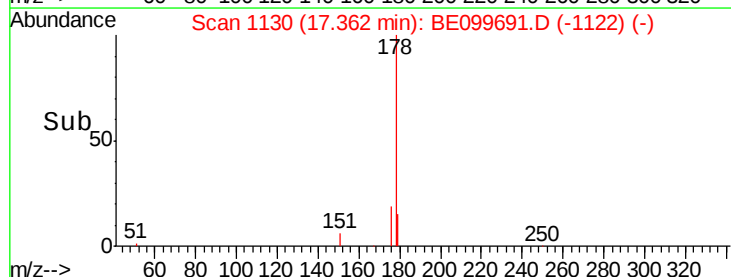
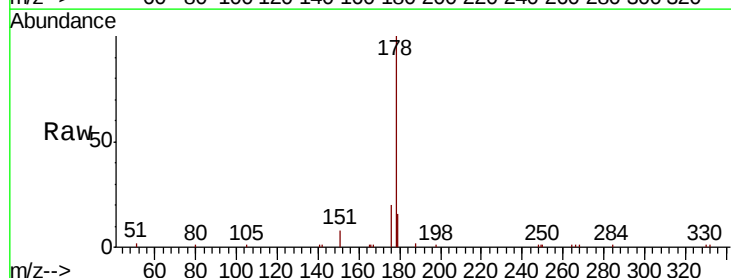
Tgt Ion:178 Resp: 11329

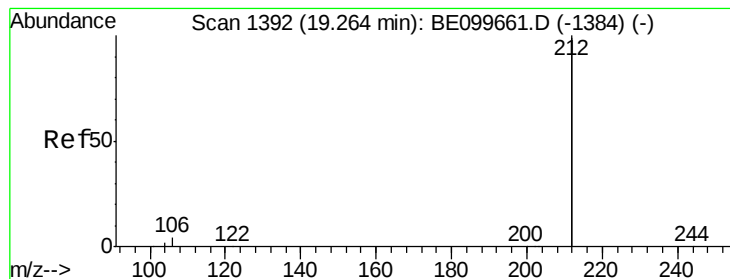
Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 15.7 12.0 18.0





#25

Fluoranthene-d10

Concen: 0.359 ng

RT: 19.27 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

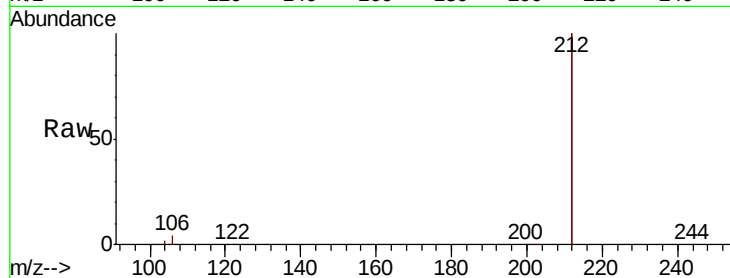
Tot Ion:212 Resp: 70129

Ion Ratio Lower Upper

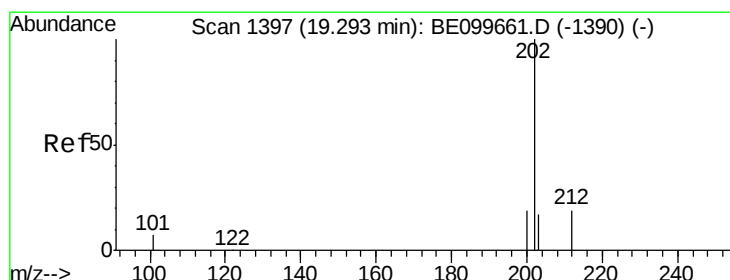
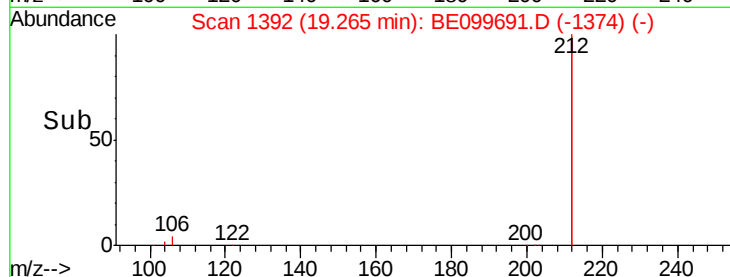
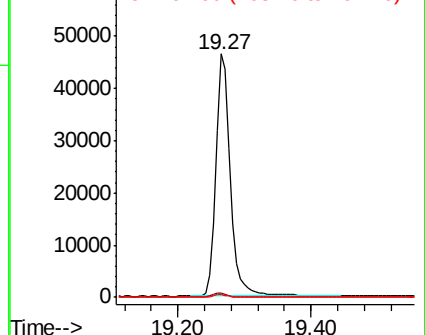
212 100

106 1.8 1.4 2.2

104 1.0 0.8 1.2



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: 0.359 ng

RT: 19.30 min Scan# 1398

Delta R.T. 0.01 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

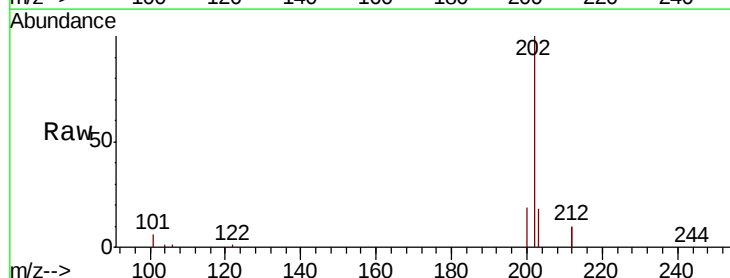
Tgt Ion:202 Resp: 19857

Ion Ratio Lower Upper

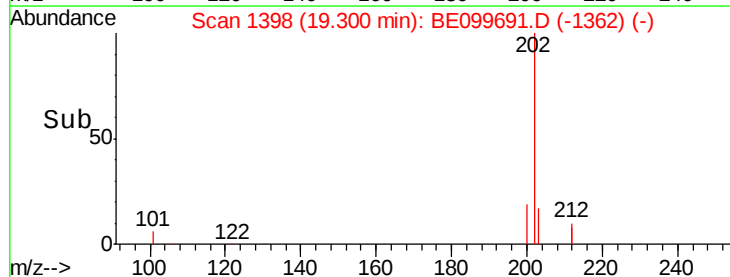
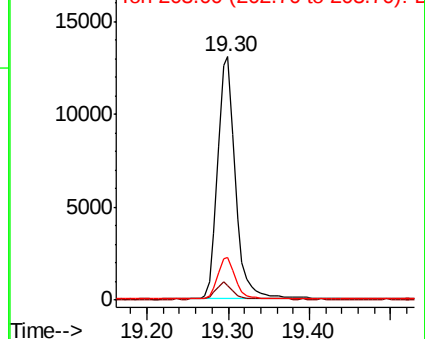
202 100

101 6.7 5.2 7.8

203 17.0 13.8 20.6



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

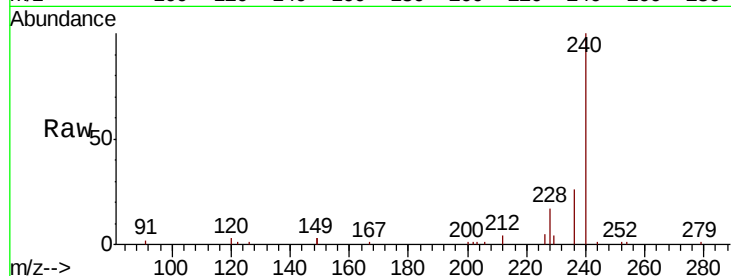




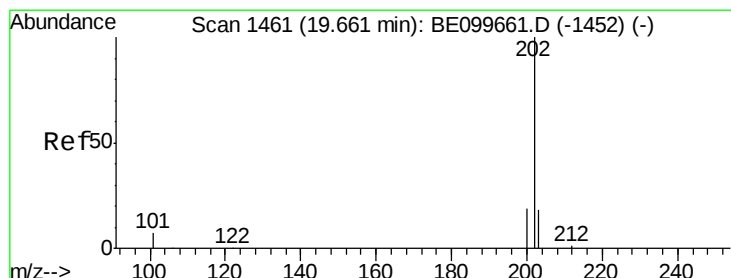
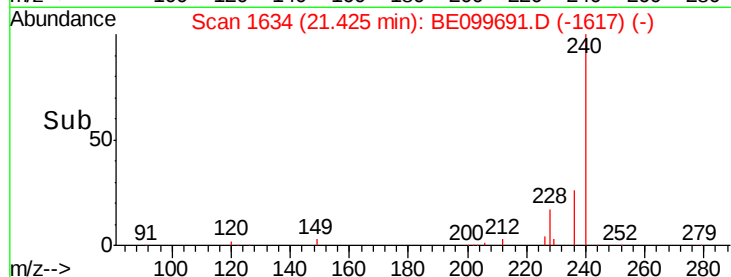
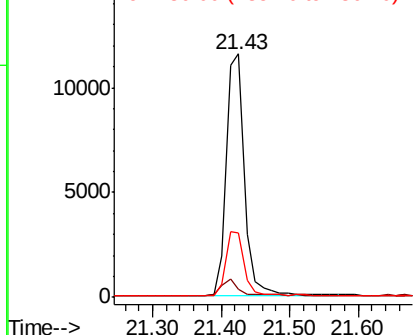
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.43 min Scan# 1634  
 Delta R.T. 0.01 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:240 Resp: 21416  
 Ion Ratio Lower Upper  
 240 100  
 120 3.2 5.4 8.0#  
 236 26.3 21.7 32.5

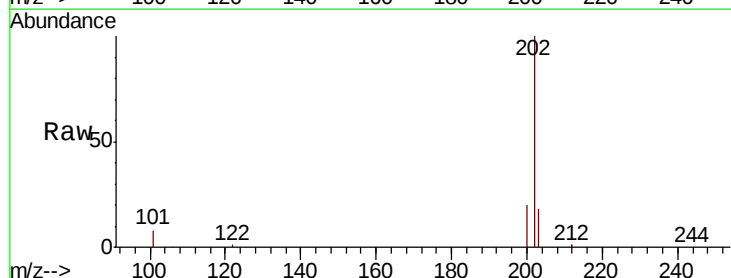


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

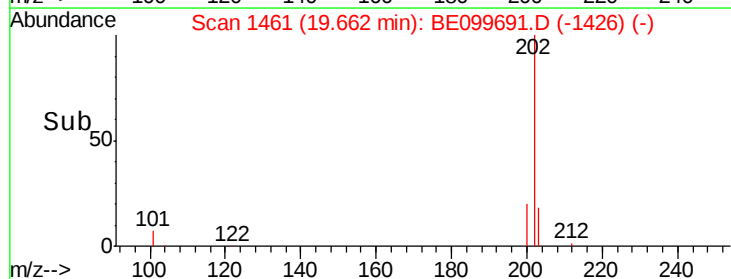
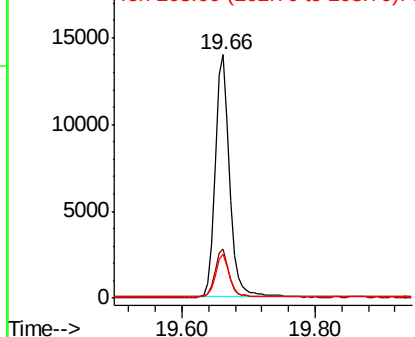


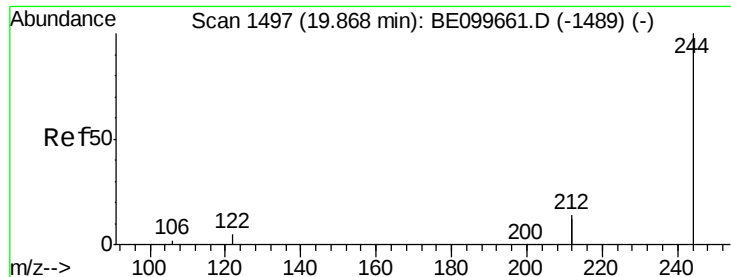
#28  
 Pyrene  
 Concen: 0.388 ng  
 RT: 19.66 min Scan# 1461  
 Delta R.T. 0.00 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

Tgt Ion:202 Resp: 20881  
 Ion Ratio Lower Upper  
 202 100  
 200 19.4 15.4 23.2  
 203 17.7 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.373 ng

RT: 19.86 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

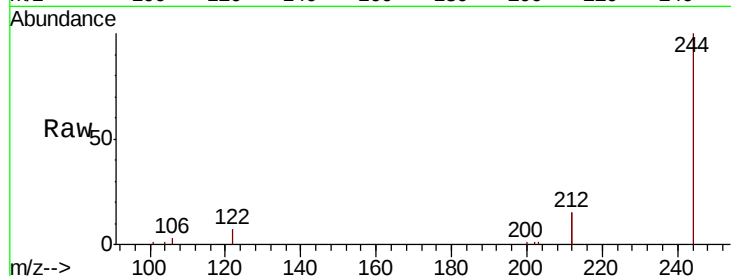
Tot Ion:244 Resp: 14275

Ion Ratio Lower Upper

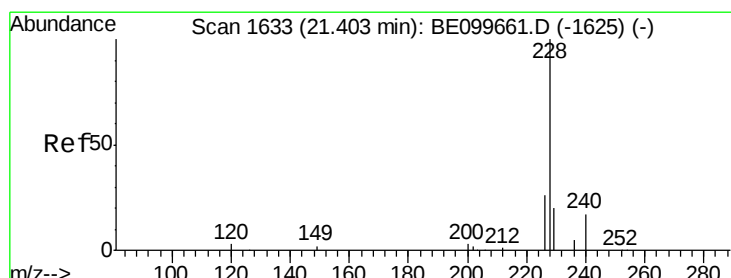
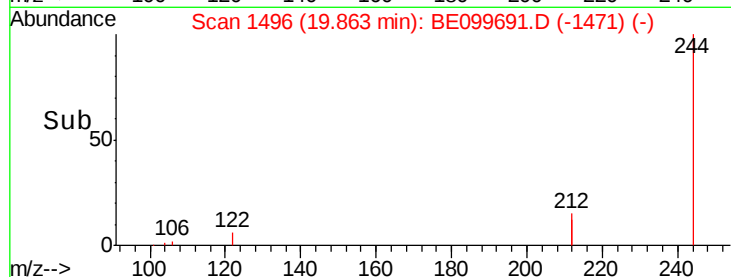
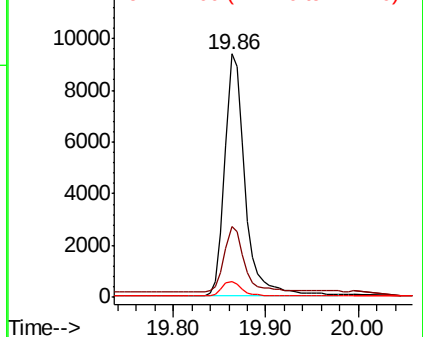
244 100

212 29.3 22.5 33.7

122 6.6 4.3 6.5#



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.407 ng

RT: 21.40 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

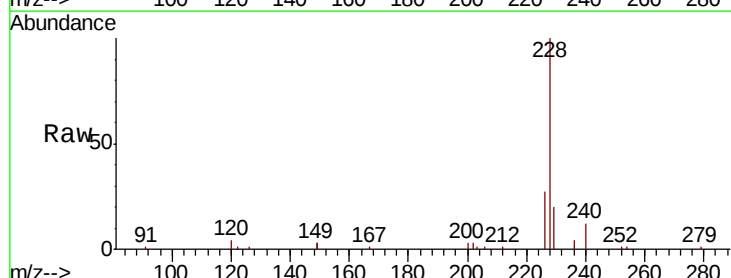
Tgt Ion:228 Resp: 24790

Ion Ratio Lower Upper

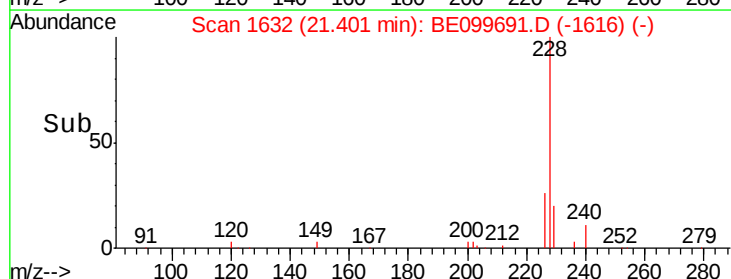
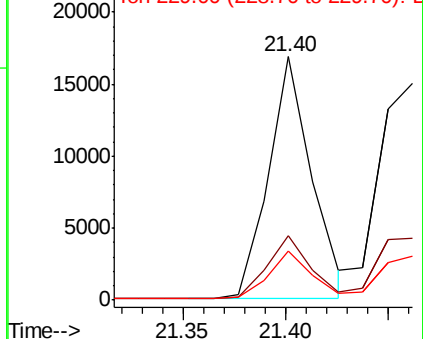
228 100

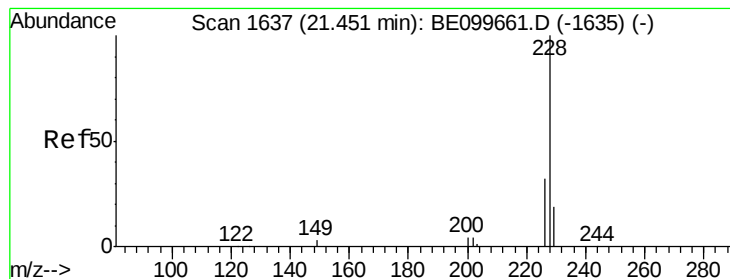
226 26.7 21.3 31.9

229 20.0 16.1 24.1



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





#31

Chrysene

Concen: 0.400 ng

RT: 21.46 min Scan# 1637

Delta R.T. 0.01 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

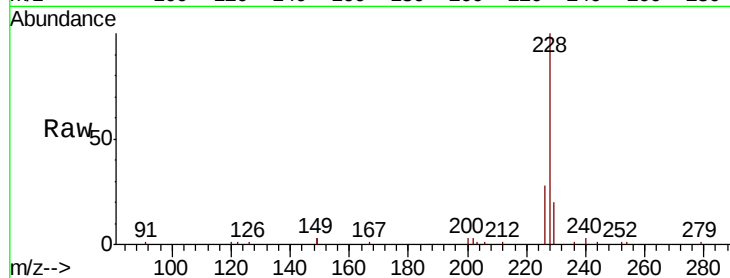
Tot Ion:228 Resp: 26042

Ion Ratio Lower Upper

228 100

226 28.4 24.7 37.1

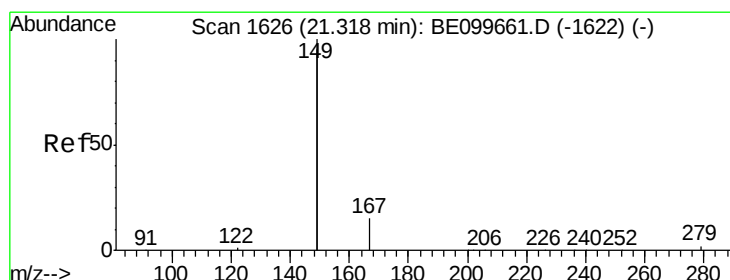
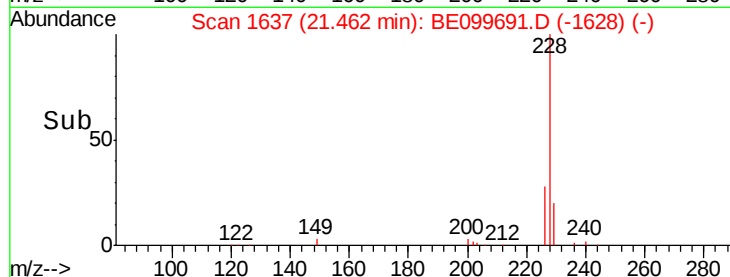
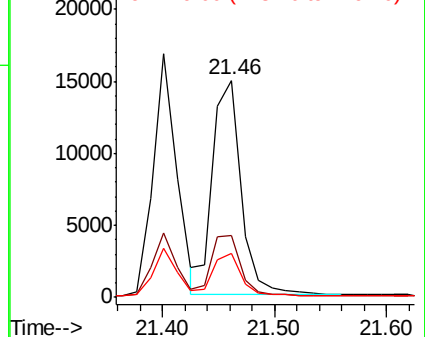
229 20.1 15.8 23.6



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: 0.512 ng

RT: 21.32 min Scan# 1625

Delta R.T. -0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

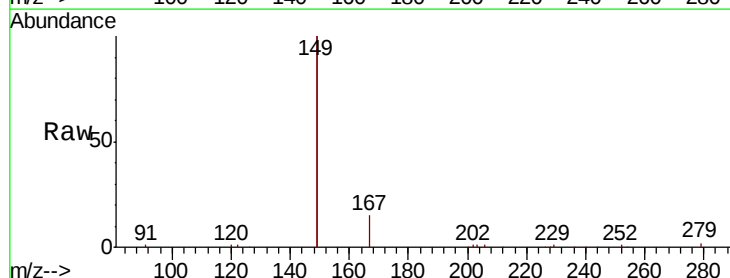
Tgt Ion:149 Resp: 35885

Ion Ratio Lower Upper

149 100

167 7.4 6.2 9.4

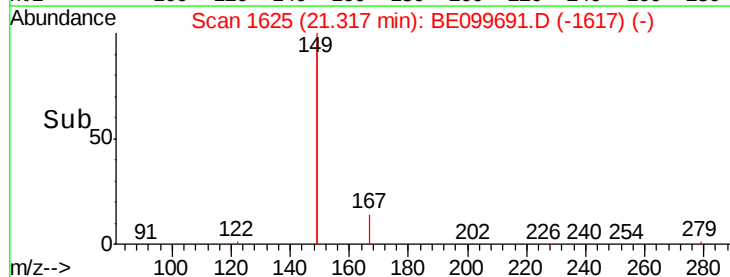
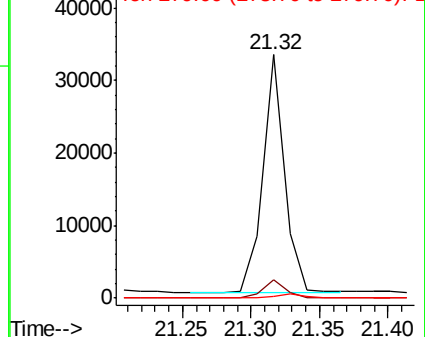
279 1.5 1.2 1.8

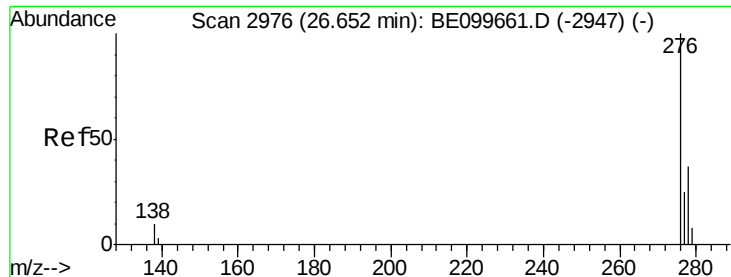


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

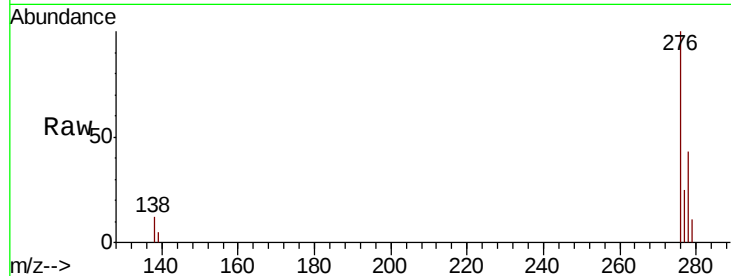




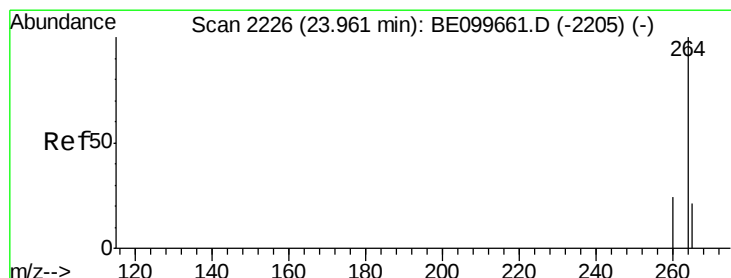
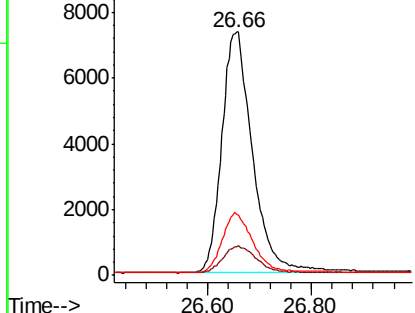
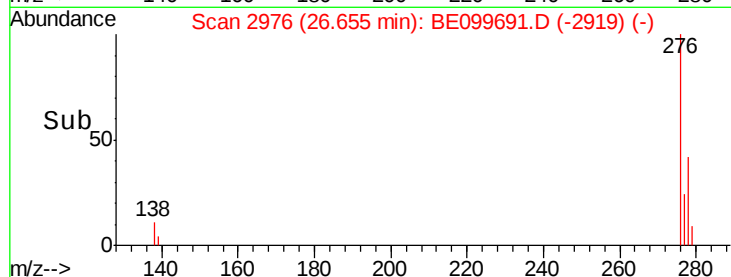
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.386 ng  
 RT: 26.66 min Scan# 2976  
 Delta R.T. 0.00 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 30326  
 Ion Ratio Lower Upper  
 276 100  
 138 11.8 9.6 14.4  
 277 24.7 19.2 28.8

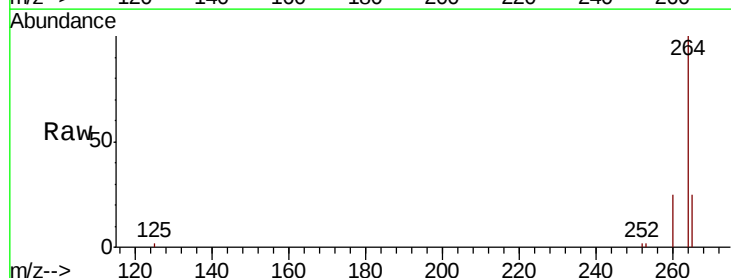


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

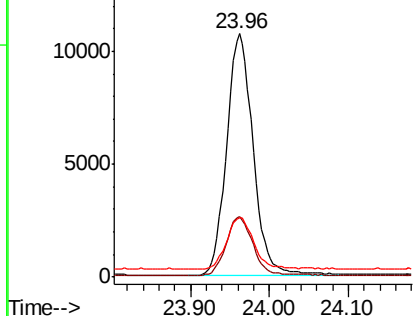
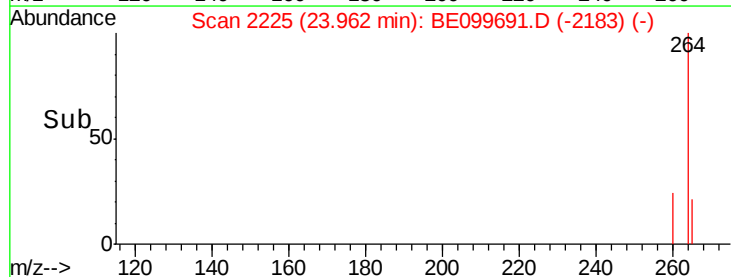


#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.96 min Scan# 2225  
 Delta R.T. 0.00 min  
 Lab File: BE099691.D  
 Acq: 21 May 2019 16:21

Tgt Ion:264 Resp: 25035  
 Ion Ratio Lower Upper  
 264 100  
 260 24.8 19.6 29.4  
 265 24.5 19.1 28.7



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

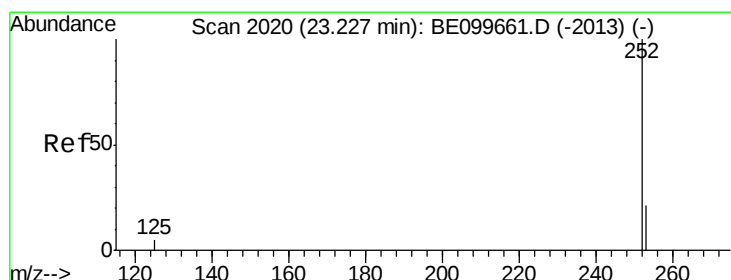
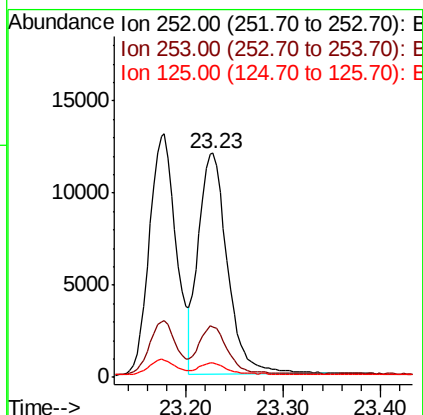
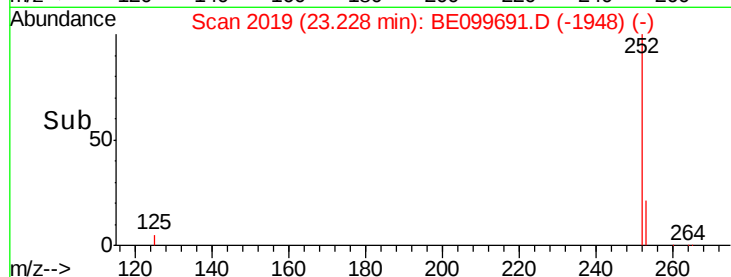
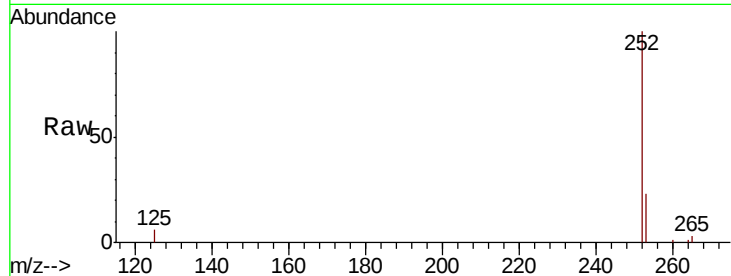




#35  
Benzo(b)fluoranthene  
Concen: 0.361 ng  
RT: 23.23 min Scan# 2019  
Delta R.T. 0.05 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

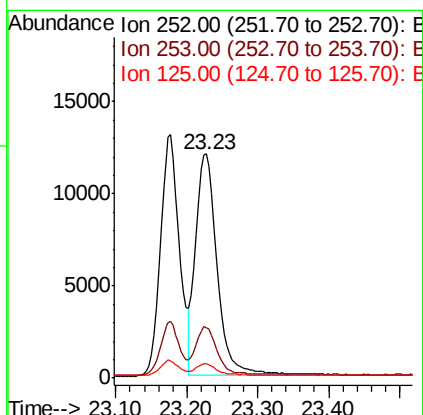
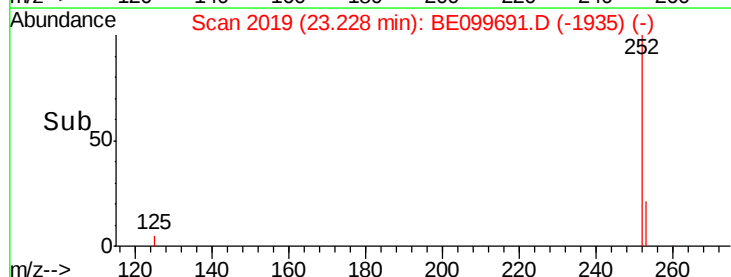
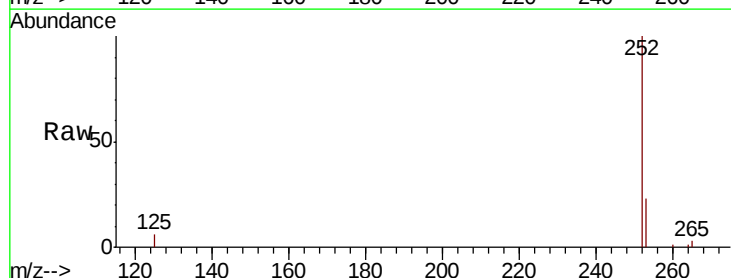
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 24767  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.2 27.4  
125 6.2 4.5 6.7



#36  
Benzo(k)fluoranthene  
Concen: 0.354 ng  
RT: 23.23 min Scan# 2019  
Delta R.T. 0.00 min  
Lab File: BE099691.D  
Acq: 21 May 2019 16:21

Tgt Ion:252 Resp: 25309  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.8 26.8  
125 6.2 4.6 6.8





#37

Benzo(a)pyrene

Concen: 0.360 ng

RT: 23.85 min Scan# 2193

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :

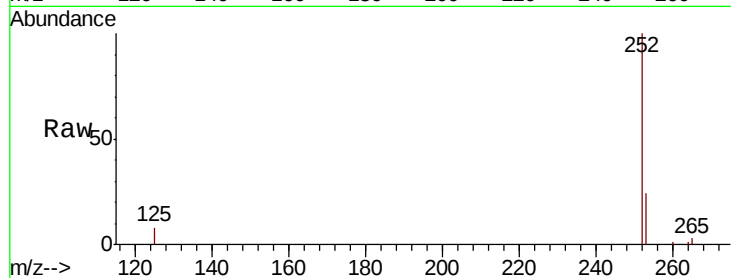
Tot Ion:252 Resp: 23760

Ion Ratio Lower Upper

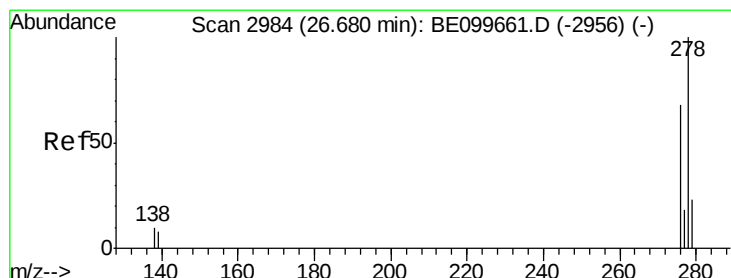
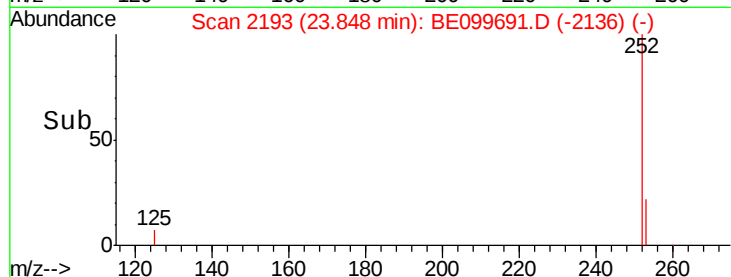
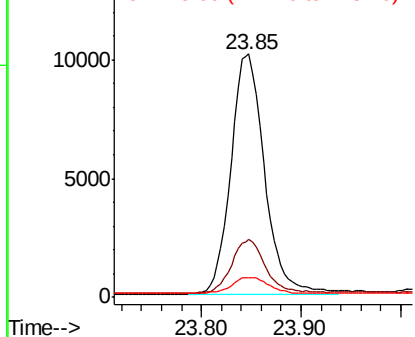
252 100

253 23.7 18.9 28.3

125 8.3 5.4 8.0#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.355 ng

RT: 26.68 min Scan# 2984

Delta R.T. 0.00 min

Lab File: BE099691.D

Acq: 21 May 2019 16:21

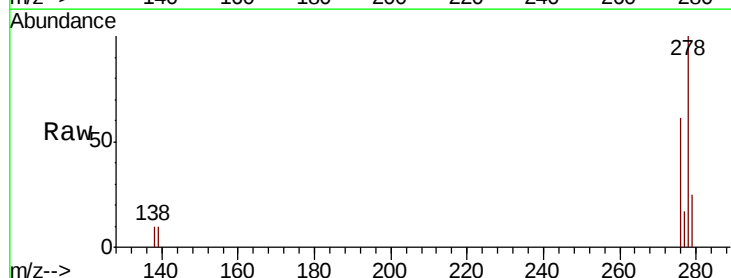
Tgt Ion:278 Resp: 24627

Ion Ratio Lower Upper

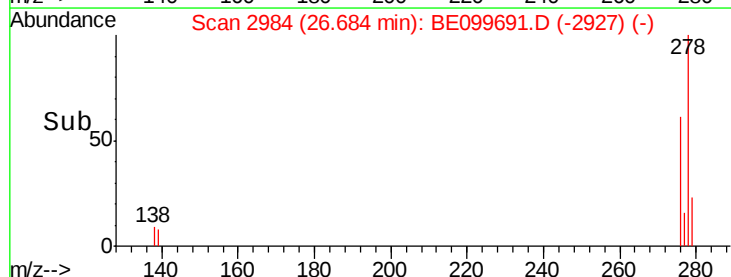
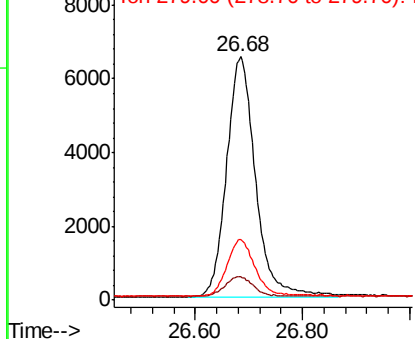
278 100

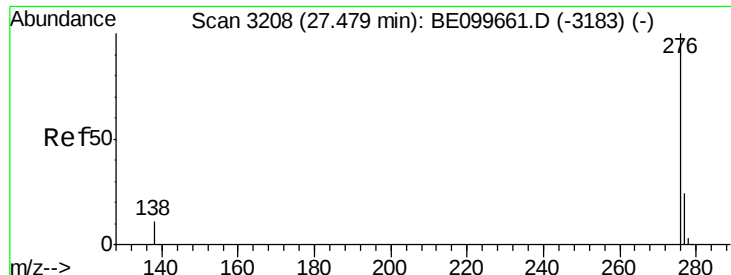
139 9.5 6.9 10.3

279 24.7 19.2 28.8



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.353 ng

RT: 27.49 min Scan# 3209

Delta R.T. 0.01 min

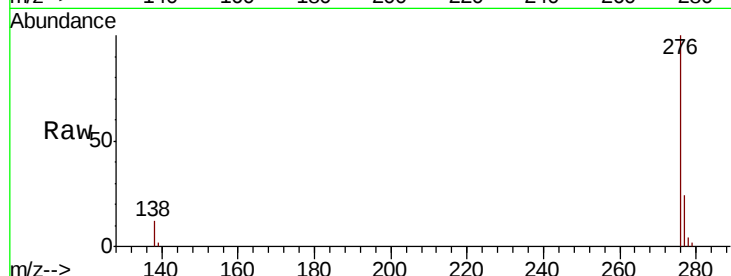
Lab File: BE099691.D

Acq: 21 May 2019 16:21

Instrument :

BNA\_E

ClientSampleId :



Tot Ion: 276 Resp: 24737

Ion Ratio Lower Upper

276 100

277 24.2 19.8 29.6

138 11.6 9.2 13.8

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

