

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121319\  
 Data File : BE100878.D  
 Acq On : 13 Dec 2019 9:35  
 Operator : JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Dec 13 10:49:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 13 10:42:38 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 5018     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 22684    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.38 | 164  | 12330    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.12 | 188  | 27376    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.31 | 240  | 24031    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.74 | 264  | 27750    | 0.40 | ng    | 0.00     |

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| System Monitoring Compounds |       |     |        |      |    |      |
| 4) 2-Fluorophenol           | 5.37  | 112 | 5680   | 0.48 | ng | 0.00 |
| 5) Phenol-d6                | 6.93  | 99  | 8459   | 0.47 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.90  | 82  | 6127   | 0.57 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.14 | 152 | 14868  | 0.45 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330 | 842    | 0.61 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.02 | 172 | 21159  | 0.43 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.15 | 212 | 124790 | 0.39 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.76 | 244 | 26468  | 0.46 | ng | 0.00 |

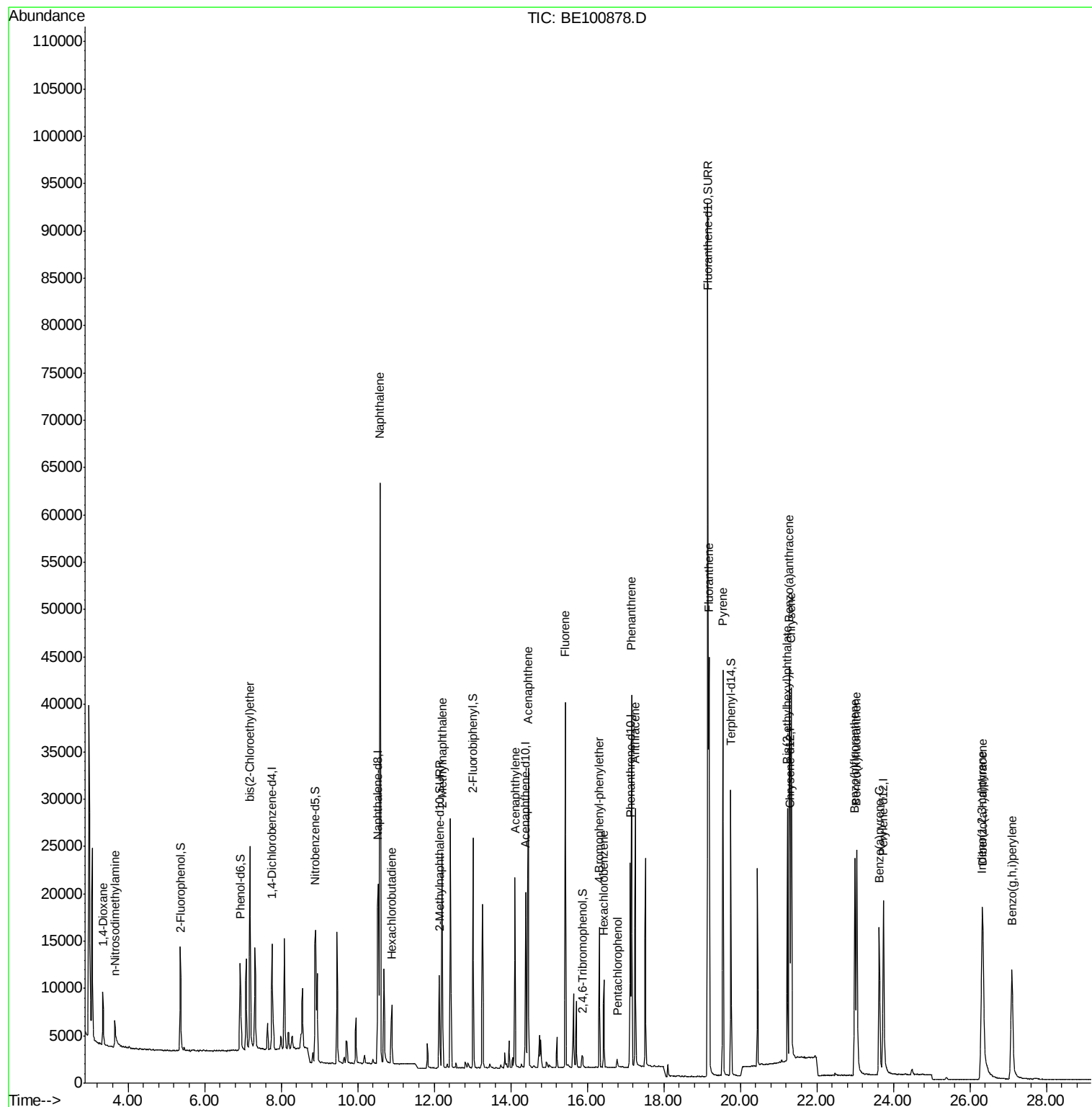
|                                |       |     |        |        |    |     |
|--------------------------------|-------|-----|--------|--------|----|-----|
| Target Compounds               |       |     |        | Qvalue |    |     |
| 2) 1,4-Dioxane                 | 3.34  | 88  | 4364   | 0.477  | ng | 100 |
| 3) n-Nitrosodimethylamine      | 3.65  | 42  | 3430   | 0.461  | ng | 98  |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93  | 8003   | 0.461  | ng | 100 |
| 9) Naphthalene                 | 10.58 | 128 | 111241 | 0.461  | ng | 100 |
| 10) Hexachlorobutadiene        | 10.89 | 225 | 4221   | 0.449  | ng | 100 |
| 12) 2-Methylnaphthalene        | 12.21 | 142 | 17549  | 0.466  | ng | 100 |
| 16) Acenaphthylene             | 14.11 | 152 | 22707  | 0.445  | ng | 100 |
| 17) Acenaphthene               | 14.46 | 154 | 16356  | 0.465  | ng | 99  |
| 18) Fluorene                   | 15.42 | 166 | 20663  | 0.456  | ng | 100 |
| 20) 4-Bromophenyl-phenylether  | 16.32 | 248 | 6044   | 0.450  | ng | 100 |
| 21) Hexachlorobenzene          | 16.44 | 284 | 7015   | 0.481  | ng | 100 |
| 22) Pentachlorophenol          | 16.79 | 266 | 617    | 0.611  | ng | 100 |
| 23) Phenanthrene               | 17.16 | 178 | 38125  | 0.460  | ng | 100 |
| 24) Anthracene                 | 17.25 | 178 | 29415  | 0.424  | ng | 100 |
| 26) Fluoranthene               | 19.18 | 202 | 40019  | 0.404  | ng | 100 |
| 28) Pyrene                     | 19.55 | 202 | 38858  | 0.498  | ng | 100 |
| 30) Benzo(a)anthracene         | 21.28 | 228 | 32042  | 0.452  | ng | 100 |
| 31) Chrysene                   | 21.33 | 228 | 40675  | 0.489  | ng | 100 |
| 32) Bis(2-ethylhexyl)phthalate | 21.23 | 149 | 27931  | 0.559  | ng | 100 |
| 33) Indeno(1,2,3-cd)pyrene     | 26.31 | 276 | 34122  | 0.471  | ng | 99  |
| 35) Benzo(b)fluoranthene       | 22.99 | 252 | 32143  | 0.423  | ng | 100 |
| 36) Benzo(k)fluoranthene       | 23.04 | 252 | 38788  | 0.455  | ng | 100 |
| 37) Benzo(a)pyrene             | 23.63 | 252 | 26990  | 0.410  | ng | 100 |
| 38) Dibenzo(a,h)anthracene     | 26.34 | 278 | 27634  | 0.422  | ng | 100 |
| 39) Benzo(g,h,i)perylene       | 27.10 | 276 | 30411  | 0.435  | ng | 100 |

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

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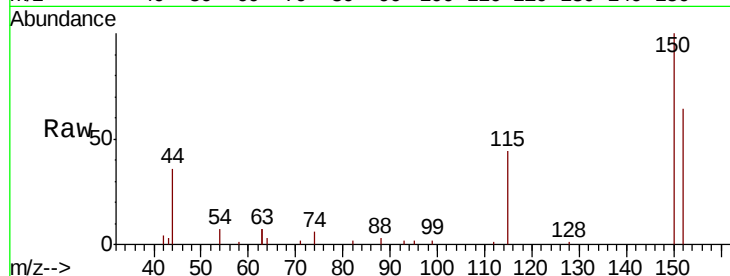


#1

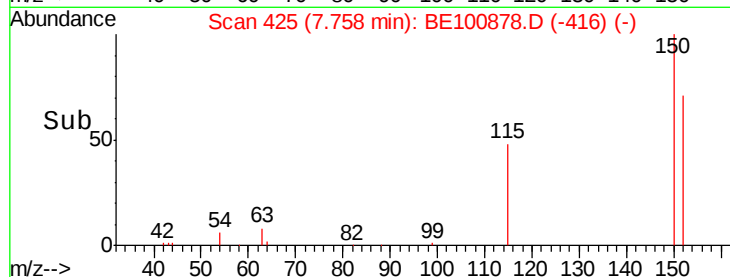
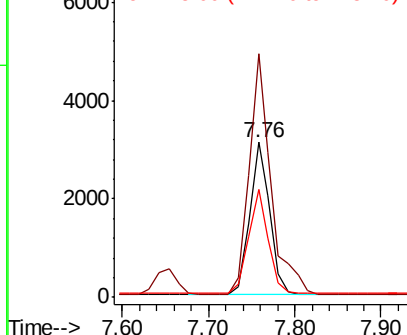
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.76 min Scan# 425  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 5018  
Ion Ratio Lower Upper  
152 100  
150 156.9 125.5 188.3  
115 69.6 55.7 83.5



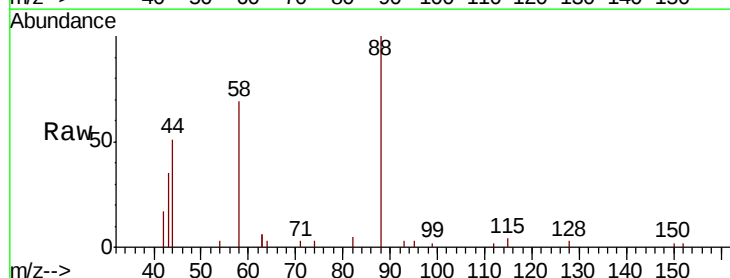
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



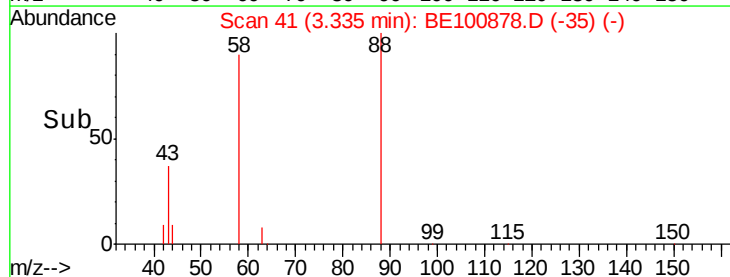
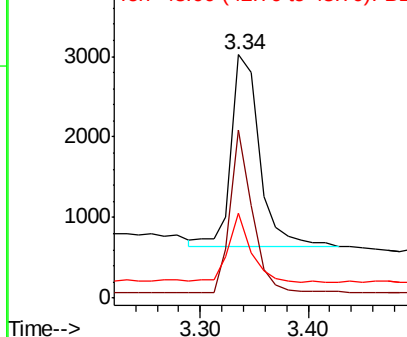
#2

1,4-Dioxane  
Concen: 0.477 ng  
RT: 3.34 min Scan# 41  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Tgt Ion: 88 Resp: 4364  
Ion Ratio Lower Upper  
88 100  
58 65.1 52.3 78.5  
43 29.7 23.5 35.3



Abundance Ion 88.00 (87.70 to 88.70): BE1  
Ion 58.00 (57.70 to 58.70): BE1  
Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.461 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

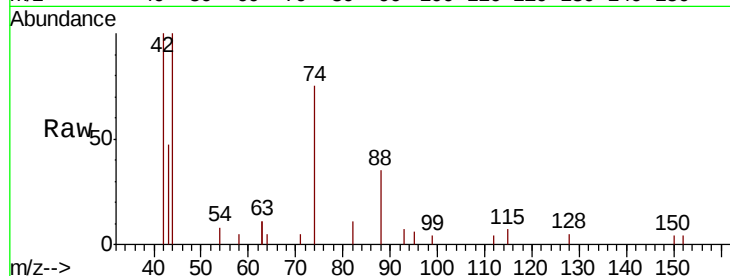
Tot Ion: 42 Resp: 3430

Ion Ratio Lower Upper

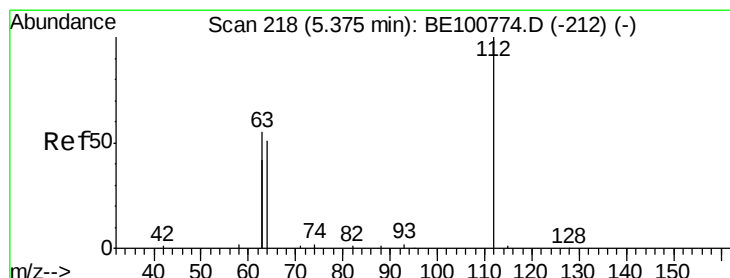
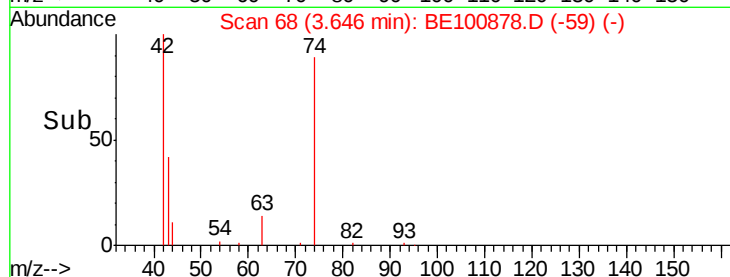
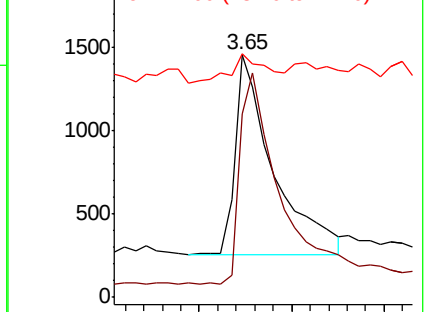
42 100

74 110.2 90.3 135.5

44 11.2 9.0 13.4



Abundance Ion 42.00 (41.70 to 42.70): BE1  
Ion 74.00 (73.70 to 74.70): BE1  
Ion 44.00 (43.70 to 44.70): BE1



#4

2-Fluorophenol

Concen: 0.477 ng

RT: 5.37 min Scan# 218

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

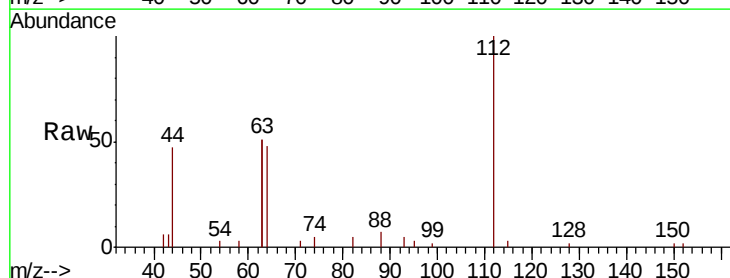
Tgt Ion: 112 Resp: 5680

Ion Ratio Lower Upper

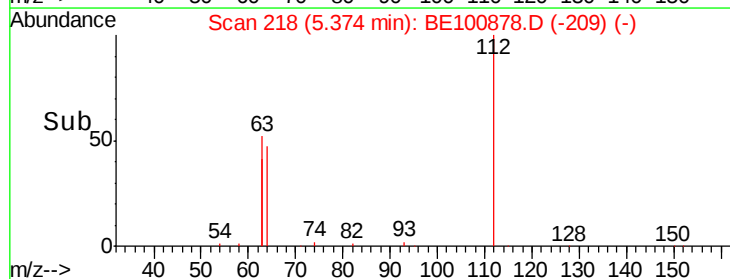
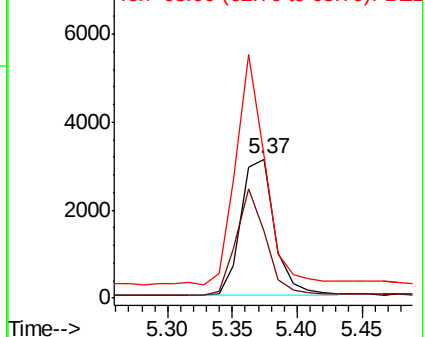
112 100

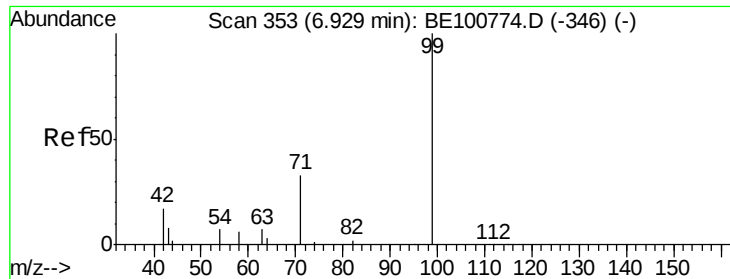
64 68.1 54.5 81.7

63 145.2 116.1 174.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.471 ng

RT: 6.93 min Scan# 353

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

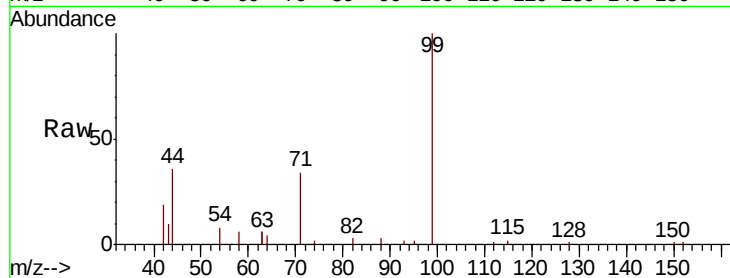
Tot Ion: 99 Resp: 8459

Ion Ratio Lower Upper

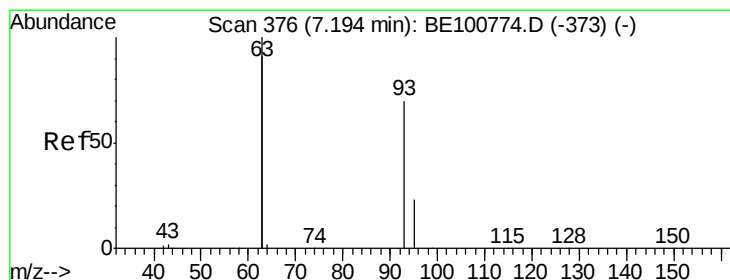
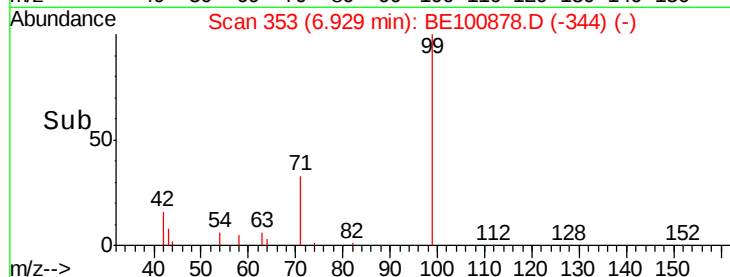
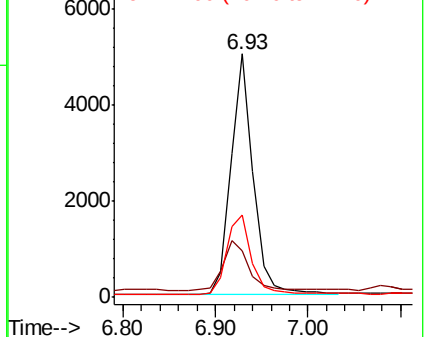
99 100

42 22.6 18.2 27.2

71 36.6 29.1 43.7



Abundance Ion 99.00 (98.70 to 99.70): BE1  
Ion 42.00 (41.70 to 42.70): BE1  
Ion 71.00 (70.70 to 71.70): BE1



#6

bis(2-Chloroethyl)ether

Concen: 0.461 ng

RT: 7.18 min Scan# 375

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

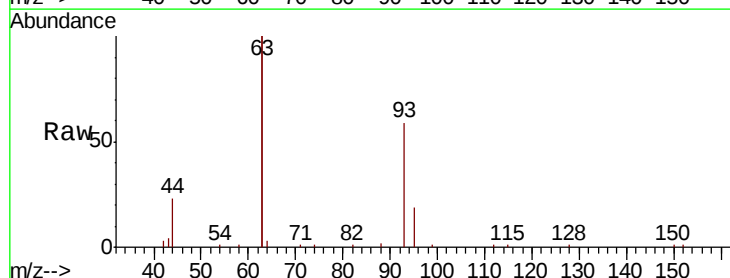
Tgt Ion: 93 Resp: 8003

Ion Ratio Lower Upper

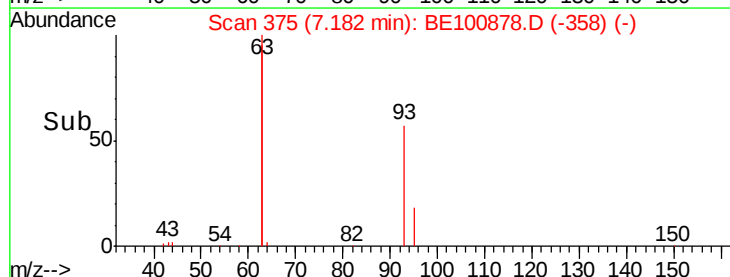
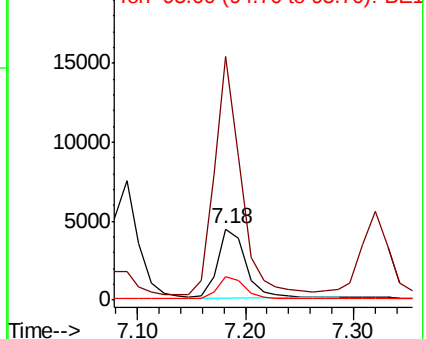
93 100

63 317.4 253.9 380.9

95 31.3 25.0 37.6



Abundance Ion 93.00 (92.70 to 93.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1  
Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.54 min Scan# 644

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 22684

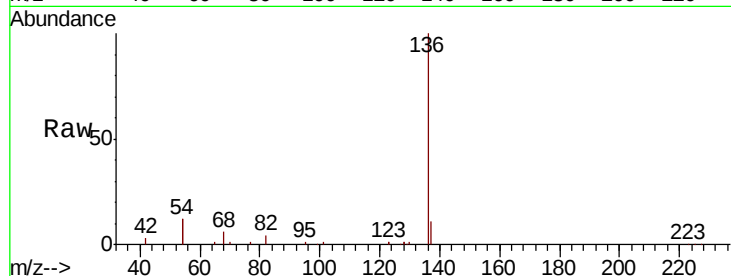
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 23.6 18.9 28.3

68 5.7 4.6 6.8

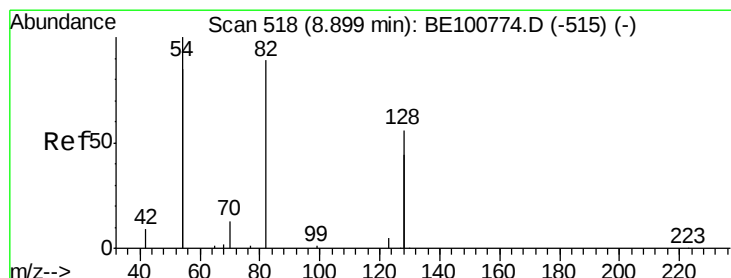
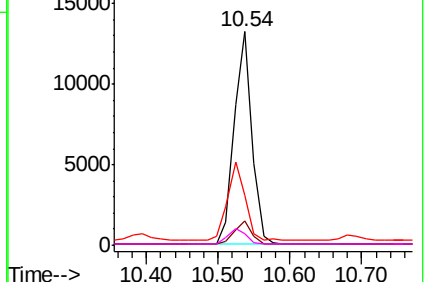
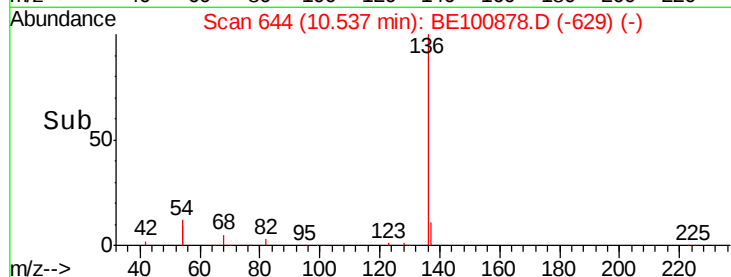


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.567 ng

RT: 8.90 min Scan# 518

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

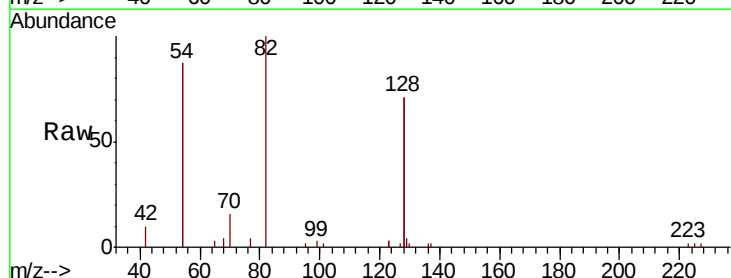
Tgt Ion: 82 Resp: 6127

Ion Ratio Lower Upper

82 100

128 141.9 113.5 170.3

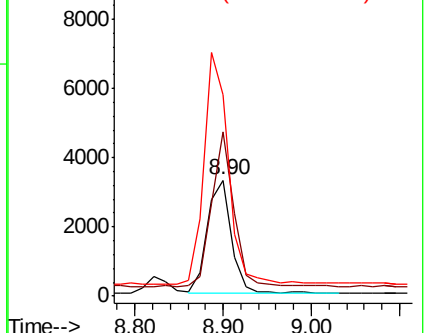
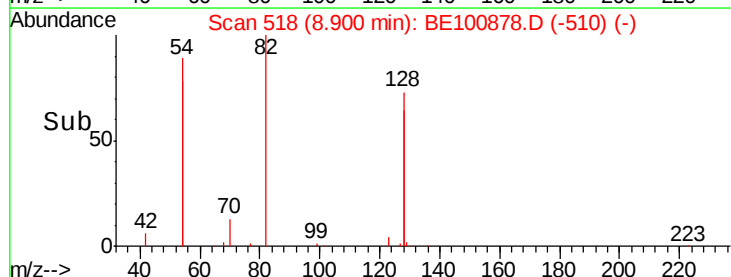
54 173.6 138.9 208.3



Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.461 ng

RT: 10.58 min Scan# 647

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

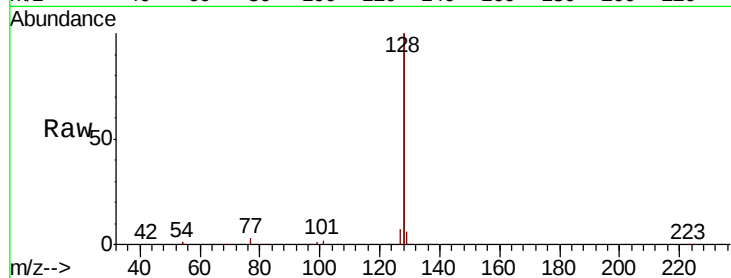
Tot Ion:128 Resp: 111241

Ion Ratio Lower Upper

128 100

129 2.8 2.2 3.4

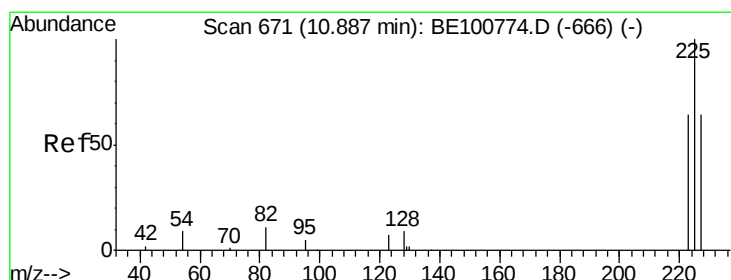
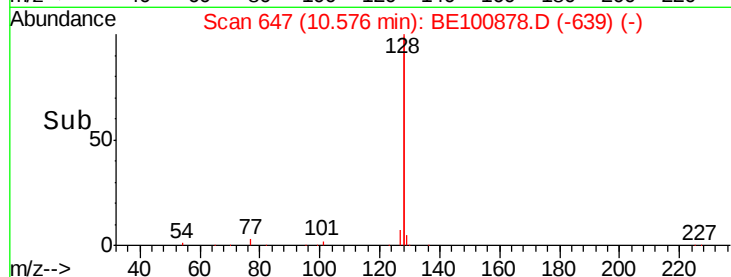
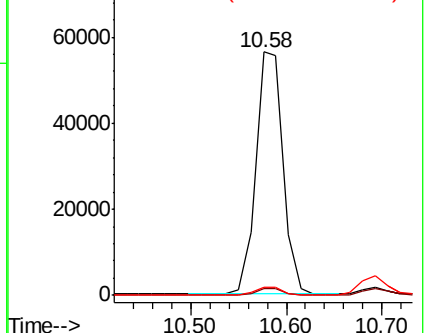
127 3.5 2.8 4.2



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: 0.449 ng

RT: 10.89 min Scan# 671

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

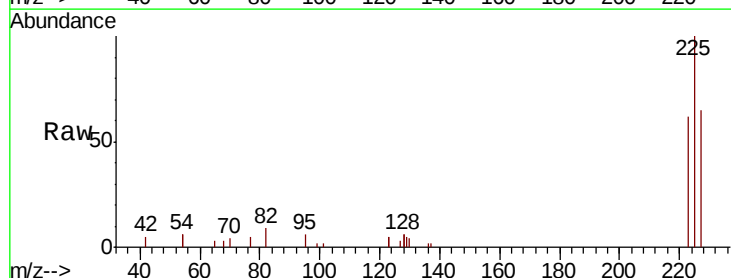
Tgt Ion:225 Resp: 4221

Ion Ratio Lower Upper

225 100

223 65.1 52.1 78.1

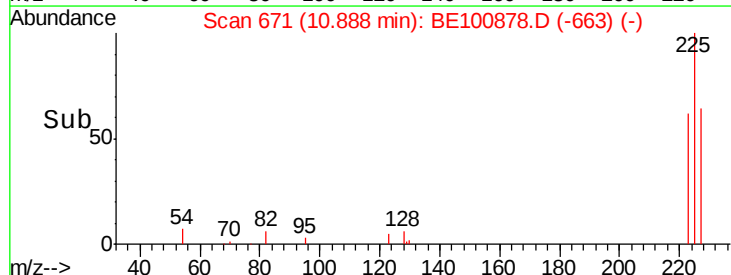
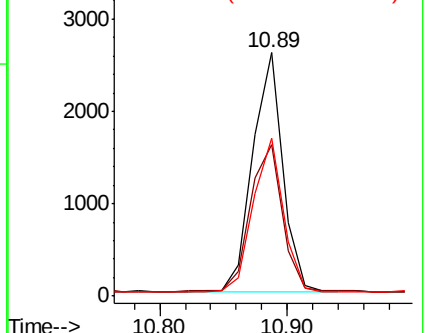
227 63.9 51.1 76.7



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: 0.452 ng

RT: 12.14 min Scan# 758

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

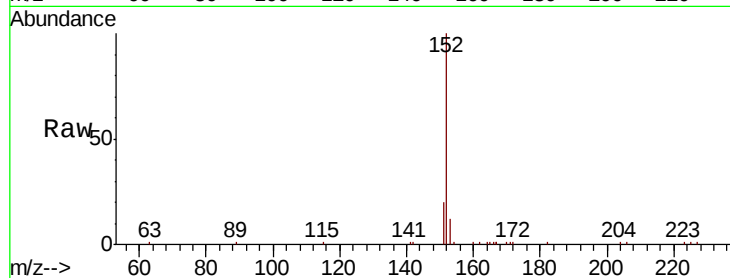
ClientSampleId :

Tot Ion:152 Resp: 14868

Ion Ratio Lower Upper

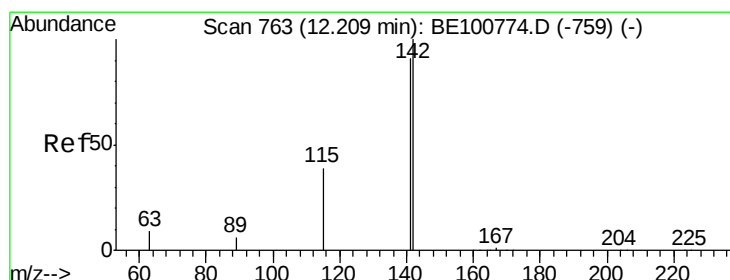
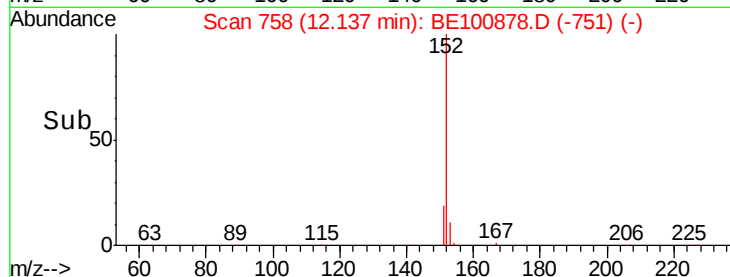
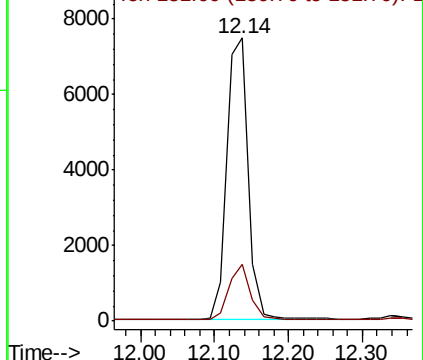
152 100

151 18.9 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.466 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

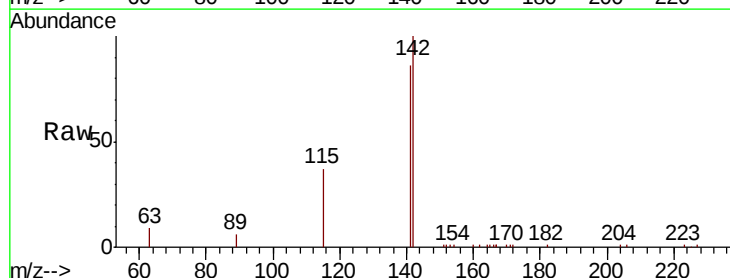
Tgt Ion:142 Resp: 17549

Ion Ratio Lower Upper

142 100

141 86.1 68.9 103.3

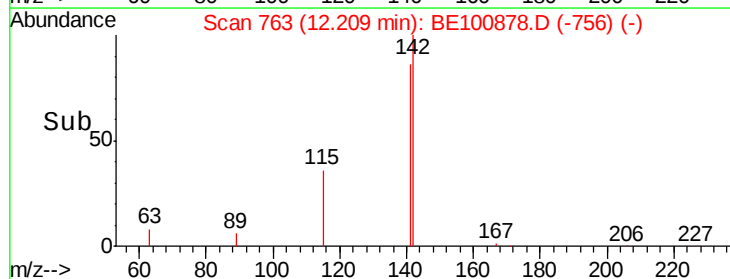
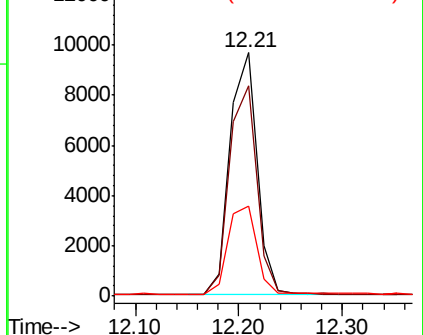
115 36.9 29.5 44.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

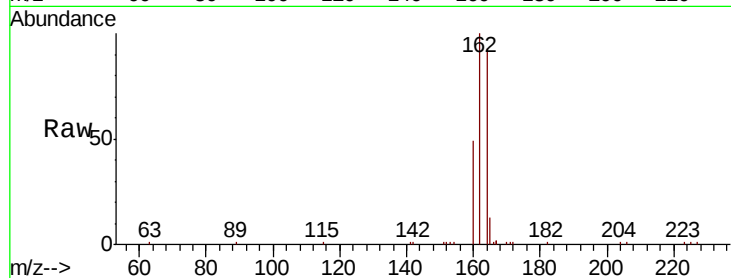




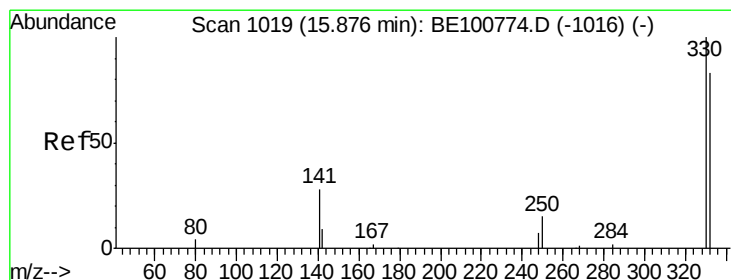
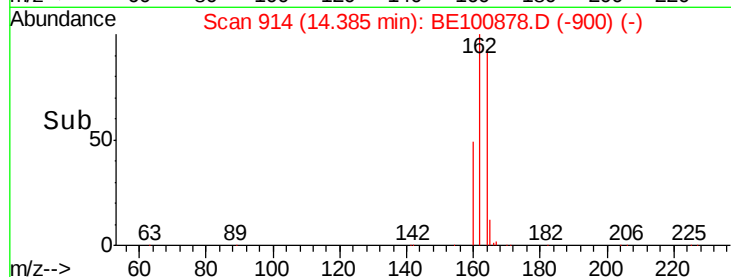
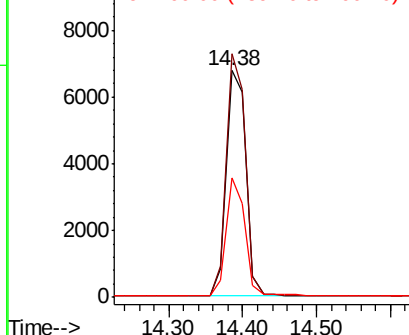
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.38 min Scan# 914  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 12330  
Ion Ratio Lower Upper  
164 100  
162 107.5 86.0 129.0  
160 52.9 42.3 63.5

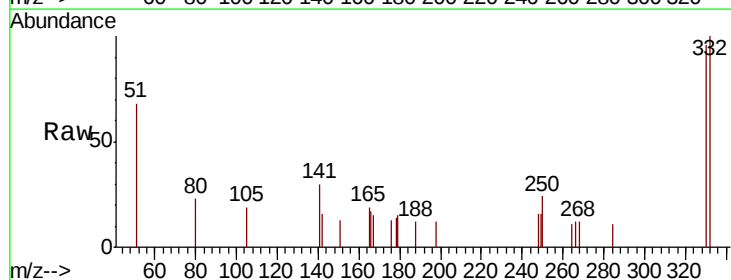


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

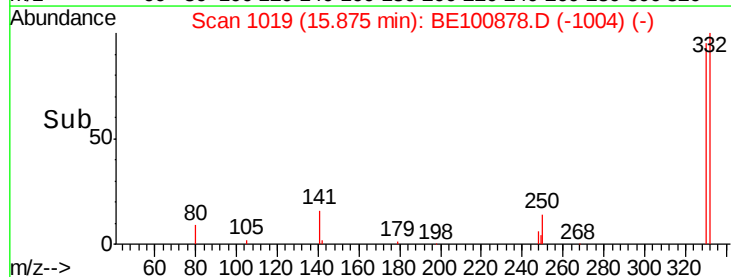
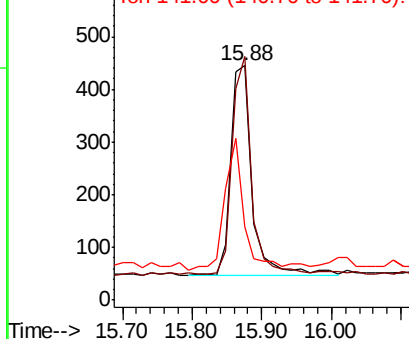


#14  
2,4,6-Tribromophenol  
Concen: 0.614 ng  
RT: 15.88 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Tgt Ion:330 Resp: 842  
Ion Ratio Lower Upper  
330 100  
332 92.6 74.1 111.1  
141 58.4 46.7 70.1



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

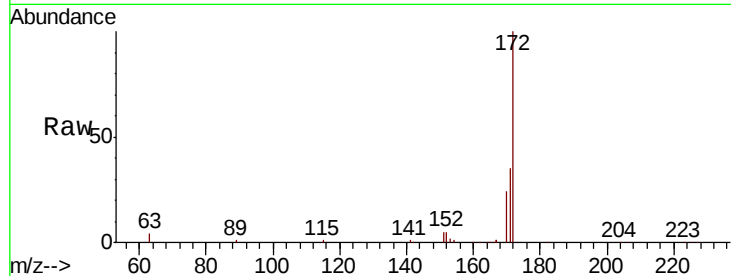




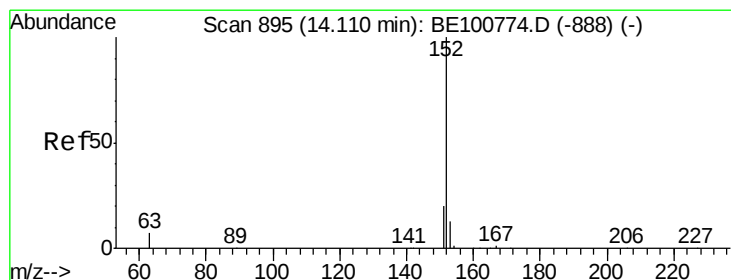
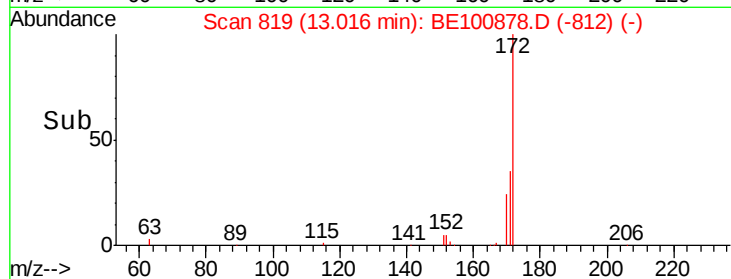
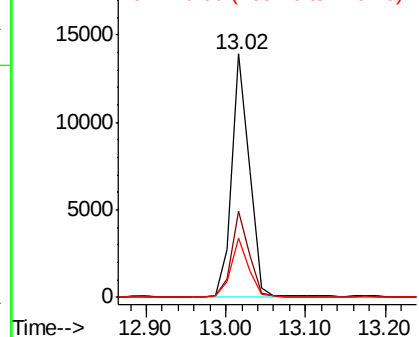
#15  
2-Fluorobiphenyl  
Concen: 0.433 ng  
RT: 13.02 min Scan# 819  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 21159  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.2 42.4  
170 24.2 19.4 29.0

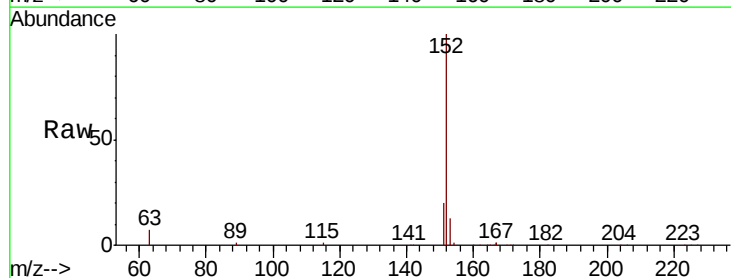


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

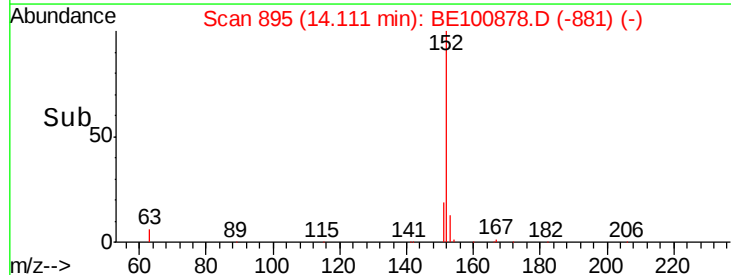
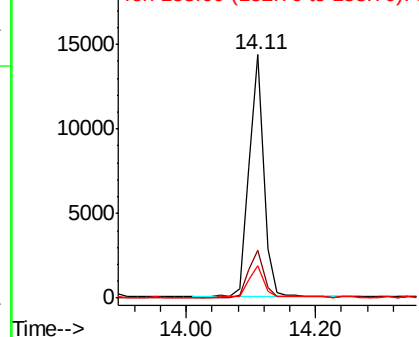


#16  
Acenaphthylene  
Concen: 0.445 ng  
RT: 14.11 min Scan# 895  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Tgt Ion:152 Resp: 22707  
Ion Ratio Lower Upper  
152 100  
151 19.9 15.9 23.9  
153 13.1 10.5 15.7



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: 0.465 ng

RT: 14.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

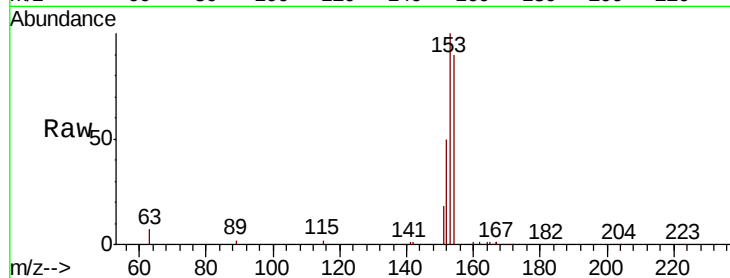
Tot Ion:154 Resp: 16356

Ion Ratio Lower Upper

154 100

153 115.2 91.5 137.3

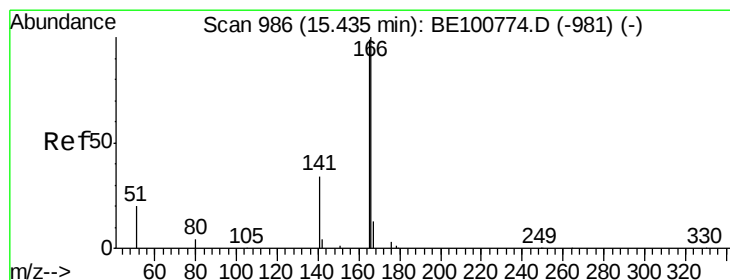
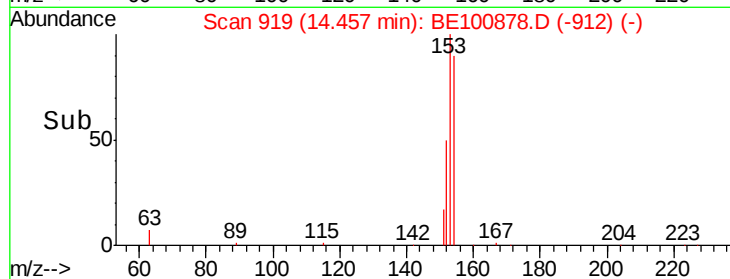
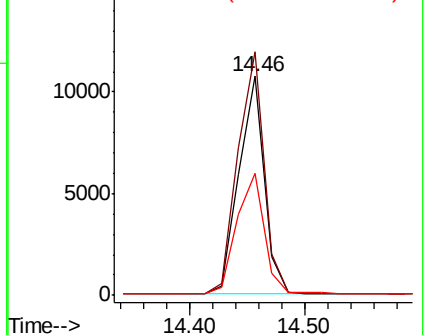
152 60.1 47.7 71.5



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: 0.456 ng

RT: 15.42 min Scan# 985

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

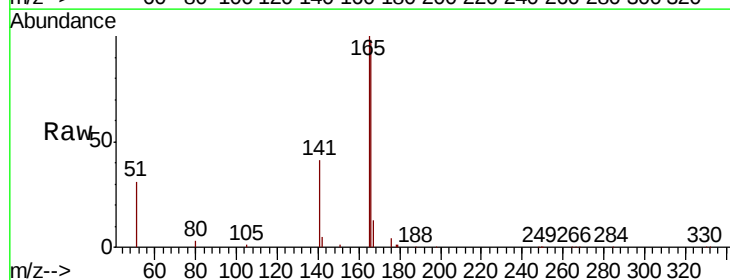
Tgt Ion:166 Resp: 20663

Ion Ratio Lower Upper

166 100

165 100.3 80.2 120.4

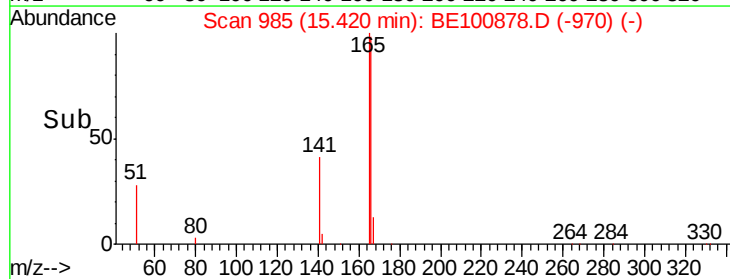
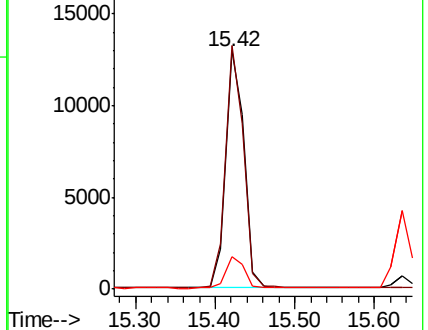
167 13.3 10.6 16.0



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: 17.12 min Scan# 1112

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

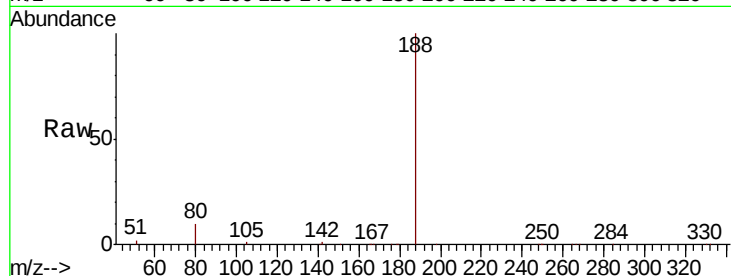
Tot Ion:188 Resp: 27376

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

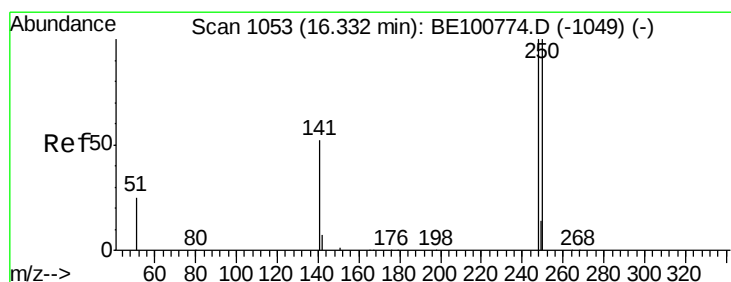
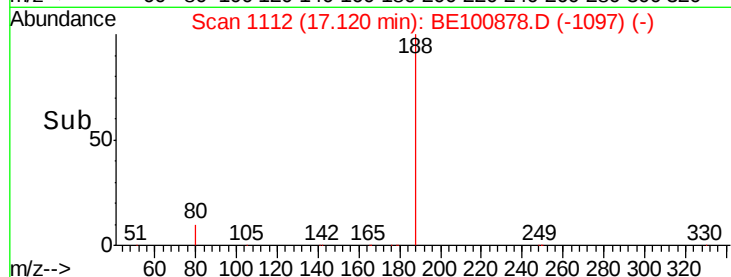
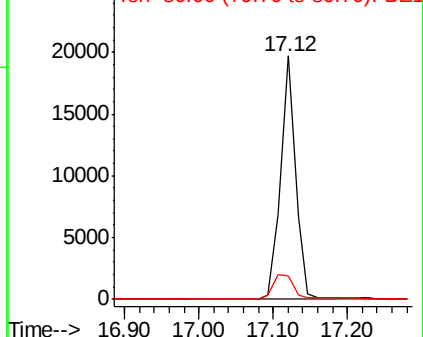
80 9.9 7.9 11.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#20

4-Bromophenyl-phenylether

Concen: 0.450 ng

RT: 16.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

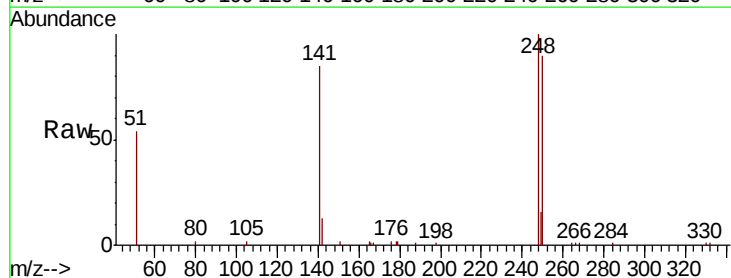
Tgt Ion:248 Resp: 6044

Ion Ratio Lower Upper

248 100

250 90.5 72.4 108.6

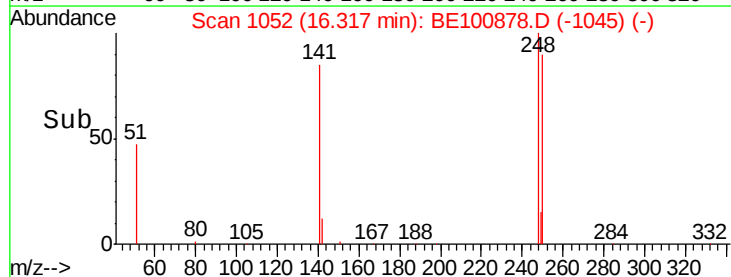
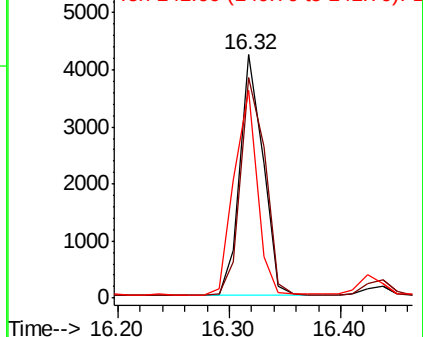
141 85.2 68.2 102.2



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

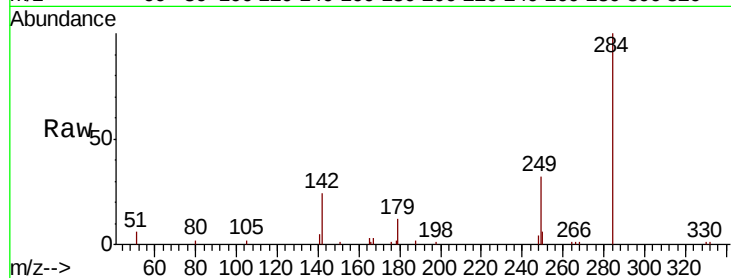




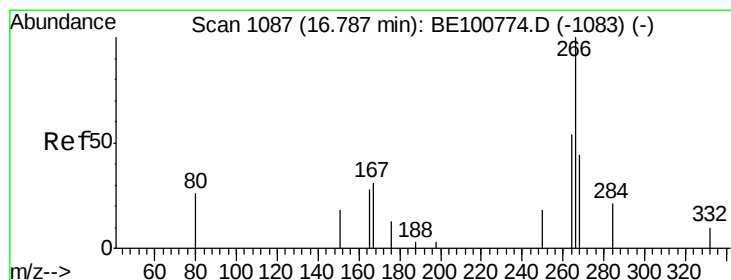
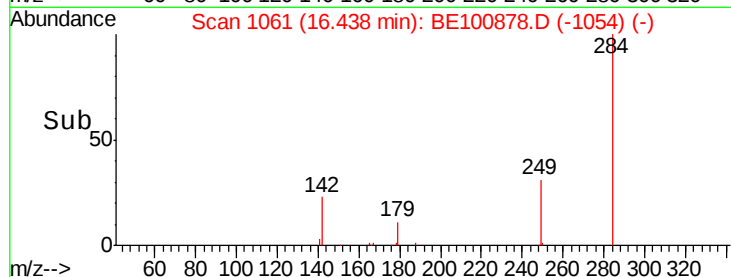
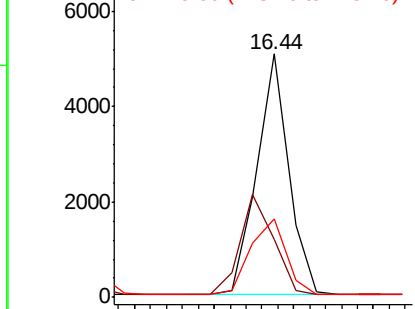
#21  
Hexachlorobenzene  
Concen: 0.481 ng  
RT: 16.44 min Scan# 1061  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:284 Resp: 7015  
Ion Ratio Lower Upper  
284 100  
142 43.5 35.0 52.4  
249 35.1 28.1 42.1

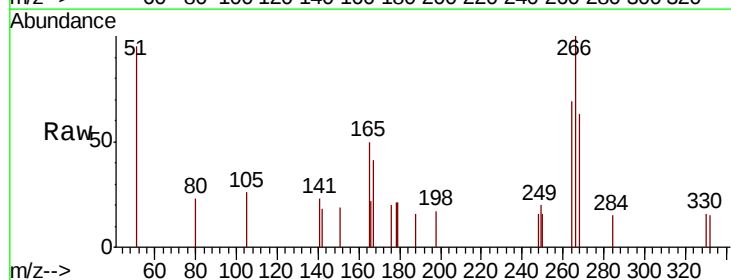


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

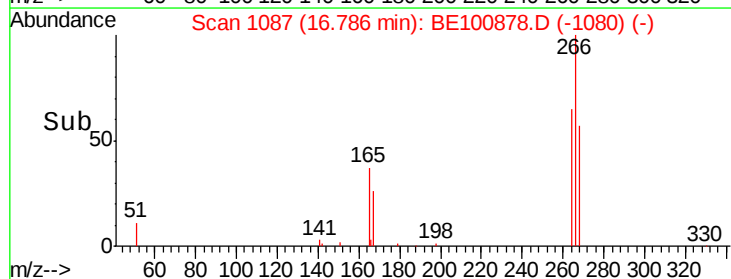
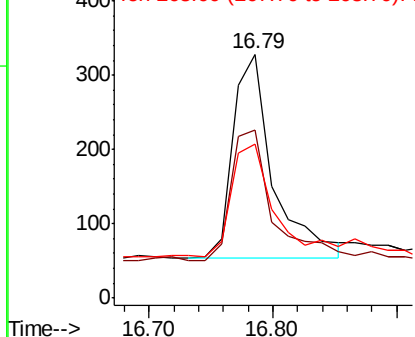


#22  
Pentachlorophenol  
Concen: 0.611 ng  
RT: 16.79 min Scan# 1087  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Tgt Ion:266 Resp: 617  
Ion Ratio Lower Upper  
266 100  
264 68.9 55.1 82.7  
268 63.4 50.7 76.1



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: 0.460 ng

RT: 17.16 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

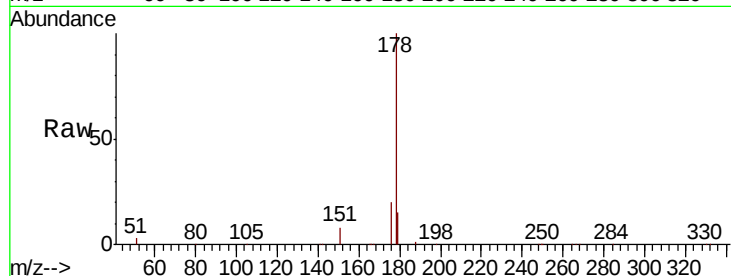
Tot Ion:178 Resp: 38125

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

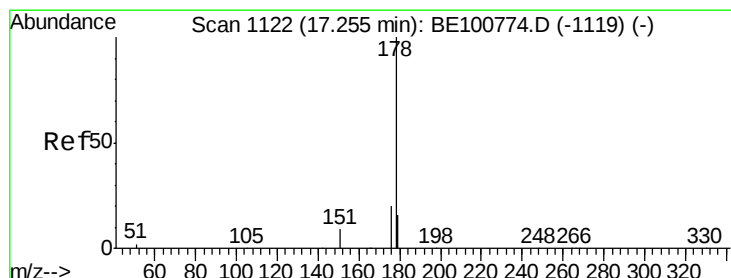
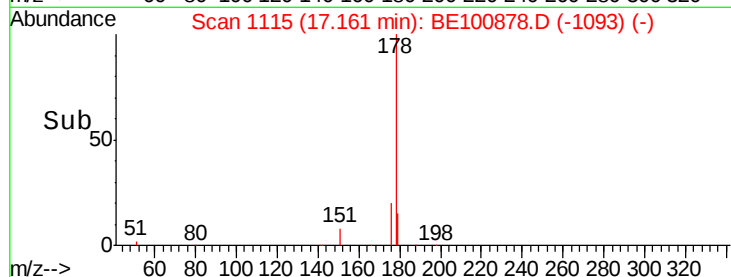
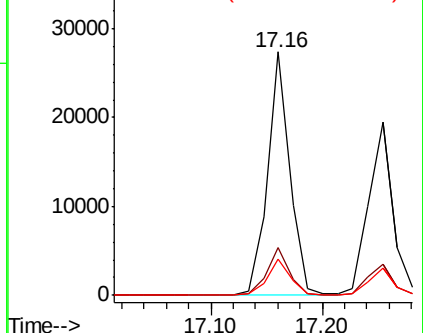
179 14.9 11.9 17.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.424 ng

RT: 17.25 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

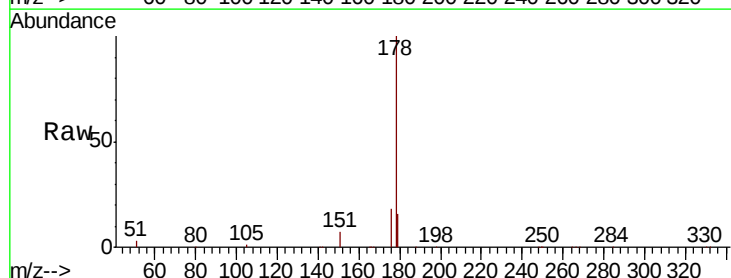
Tgt Ion:178 Resp: 29415

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

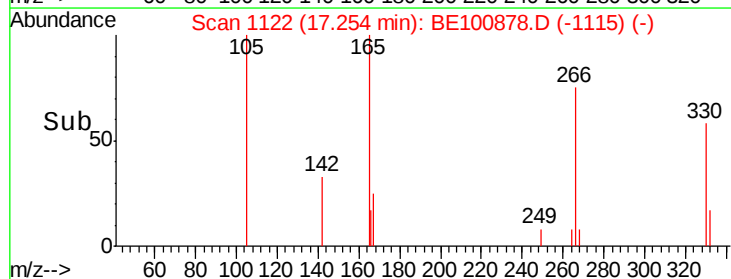
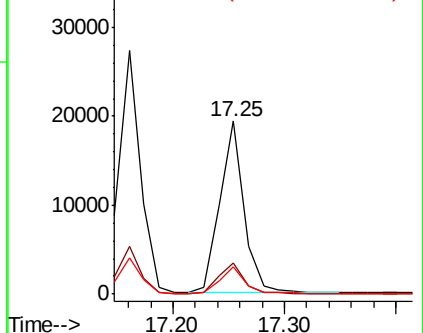
179 15.3 12.2 18.4

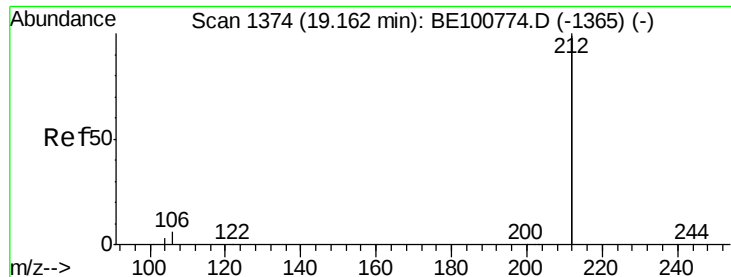


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.386 ng

RT: 19.15 min Scan# 1372

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

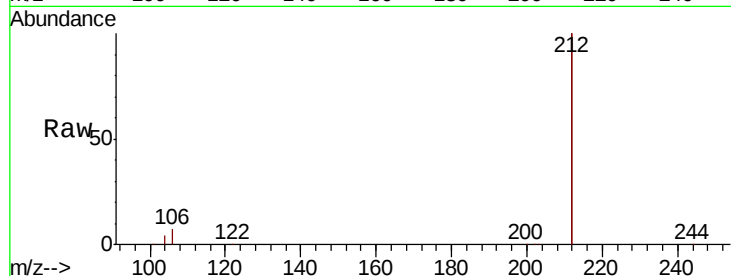
Tot Ion:212 Resp: 124790

Ion Ratio Lower Upper

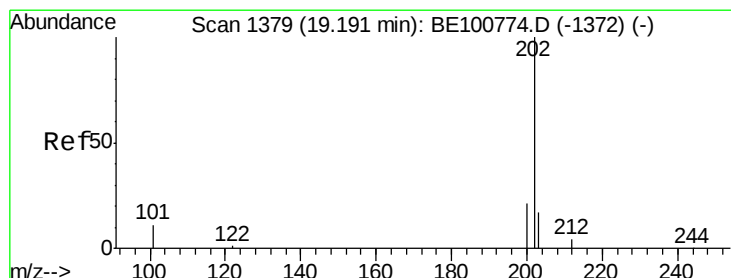
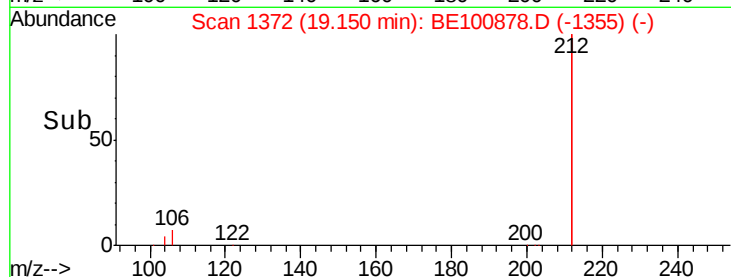
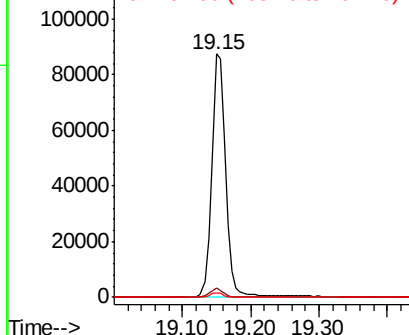
212 100

106 3.3 2.6 4.0

104 1.8 1.4 2.2



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: 0.404 ng

RT: 19.18 min Scan# 1378

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

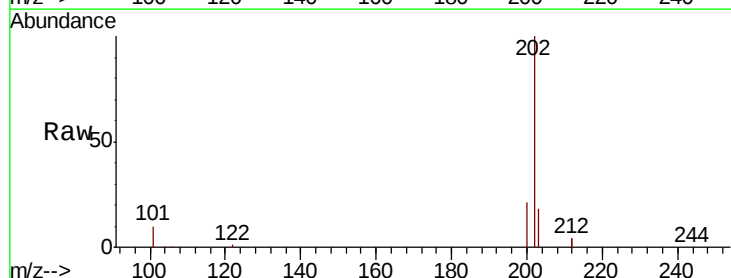
Tgt Ion:202 Resp: 40019

Ion Ratio Lower Upper

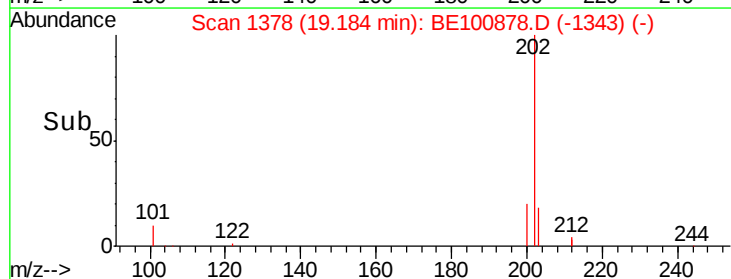
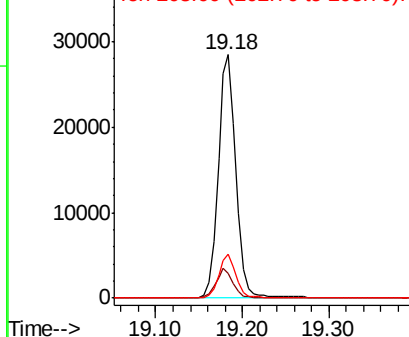
202 100

101 11.7 9.4 14.0

203 17.1 13.7 20.5



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

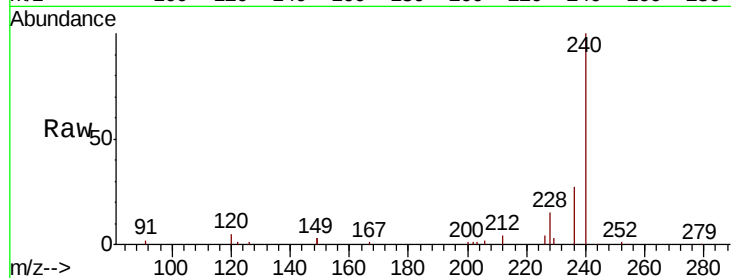




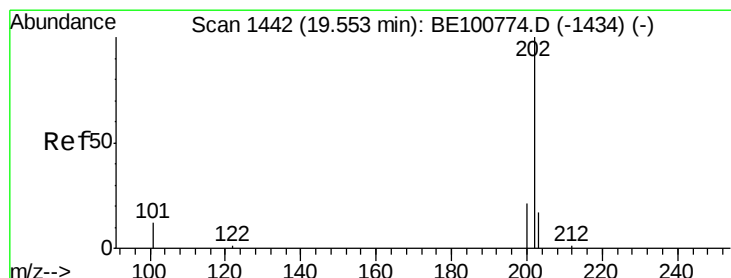
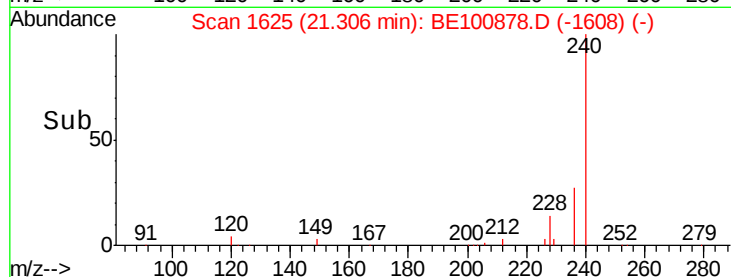
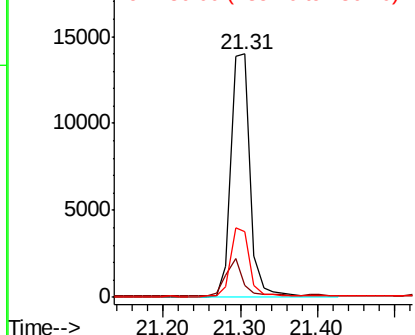
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.31 min Scan# 1625  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:240 Resp: 24031  
Ion Ratio Lower Upper  
240 100  
120 5.0 4.0 6.0  
236 27.0 21.6 32.4

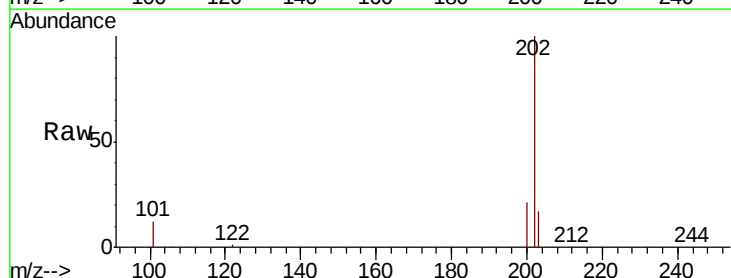


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

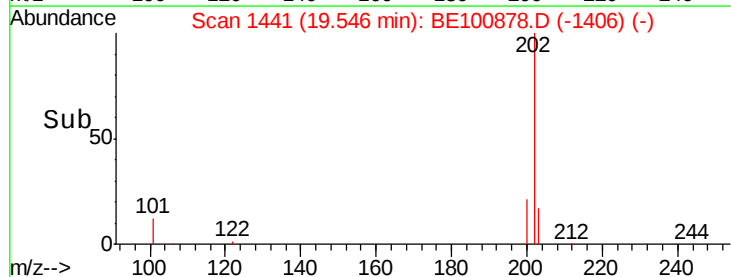
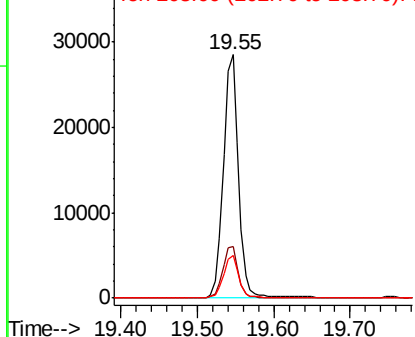


#28  
Pyrene  
Concen: 0.498 ng  
RT: 19.55 min Scan# 1441  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Tgt Ion:202 Resp: 38858  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.4  
203 17.3 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: 0.460 ng

RT: 19.76 min Scan# 1478

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampled :

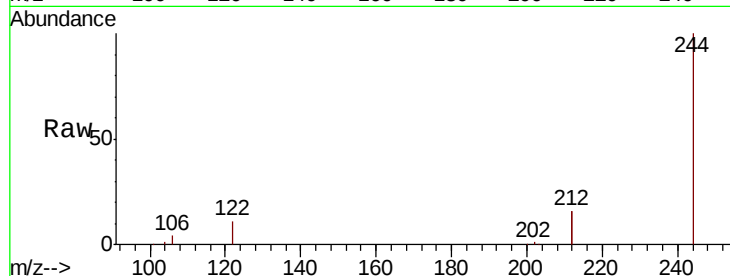
Tot Ion:244 Resp: 26468

Ion Ratio Lower Upper

244 100

212 31.5 25.2 37.8

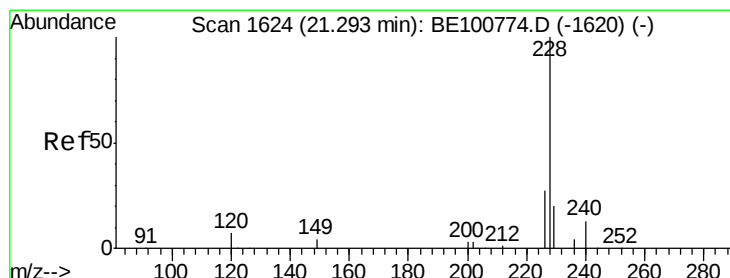
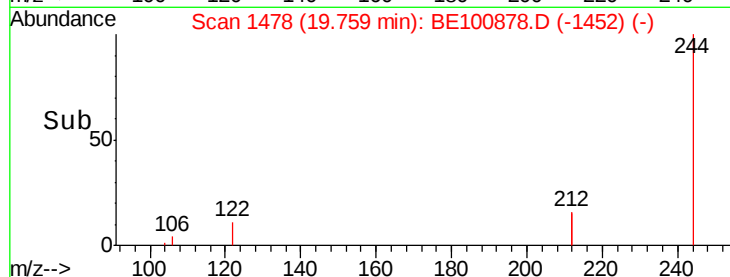
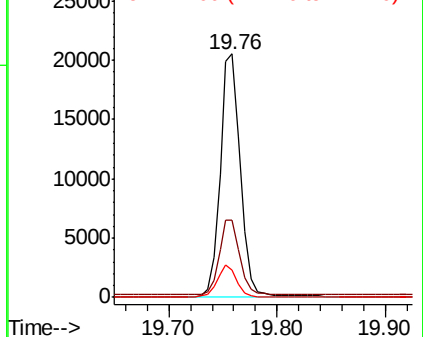
122 11.1 8.9 13.3



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: 0.452 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

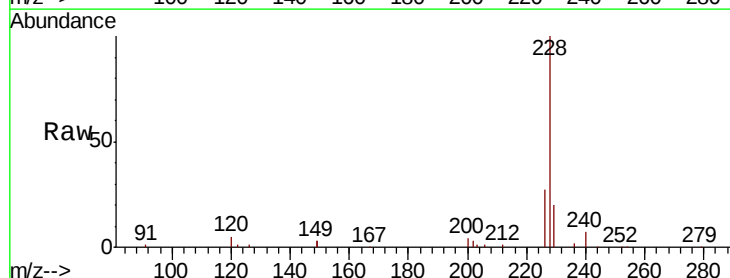
Tgt Ion:228 Resp: 32042

Ion Ratio Lower Upper

228 100

226 26.7 21.4 32.0

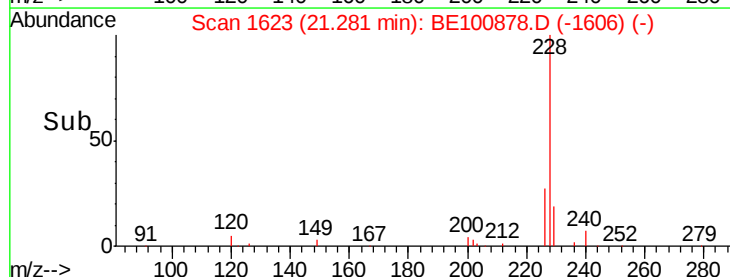
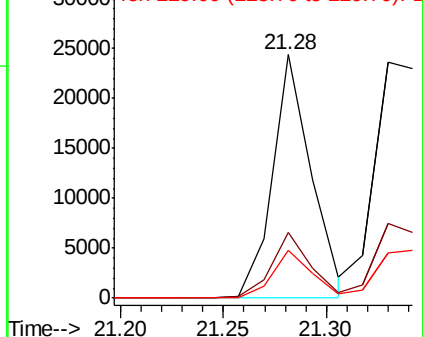
229 19.7 15.8 23.6



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





#31

Chrysene

Concen: 0.489 ng

RT: 21.33 min Scan# 1627

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

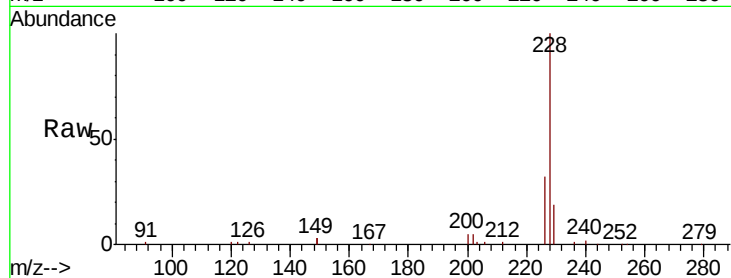
Tot Ion:228 Resp: 40675

Ion Ratio Lower Upper

228 100

226 31.6 25.3 37.9

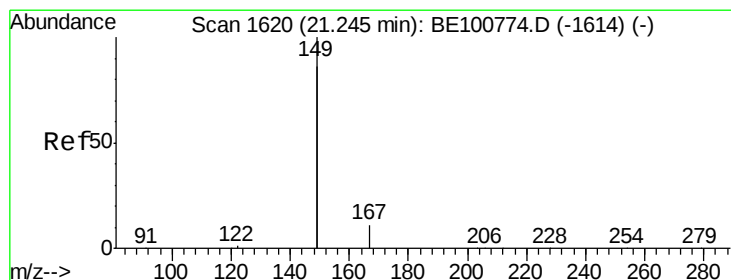
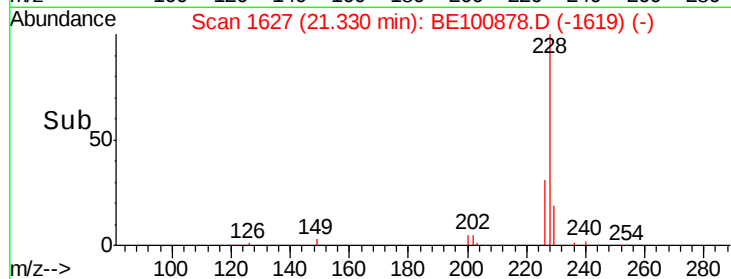
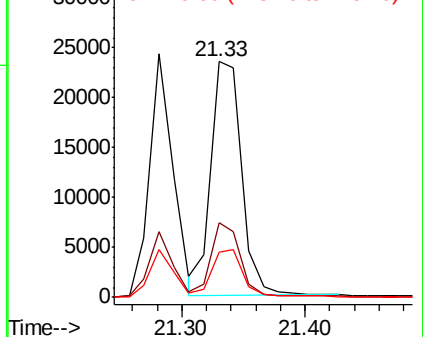
229 19.0 15.2 22.8



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: 0.559 ng

RT: 21.23 min Scan# 1619

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

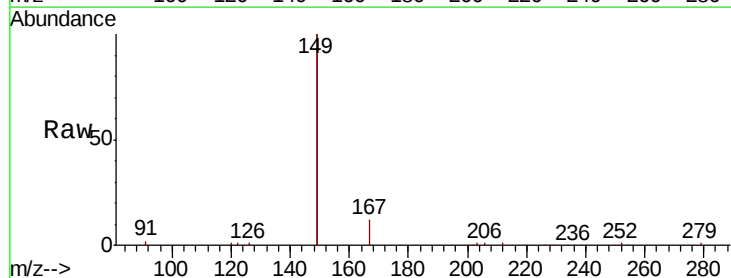
Tgt Ion:149 Resp: 27931

Ion Ratio Lower Upper

149 100

167 6.1 5.0 7.4

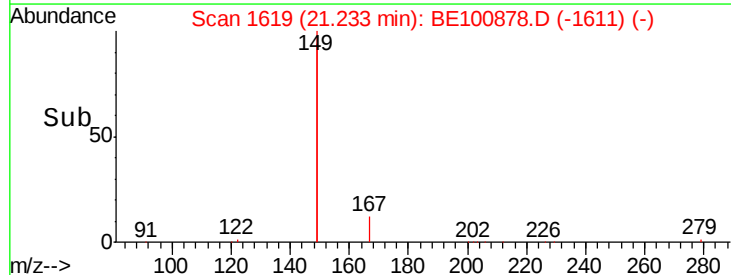
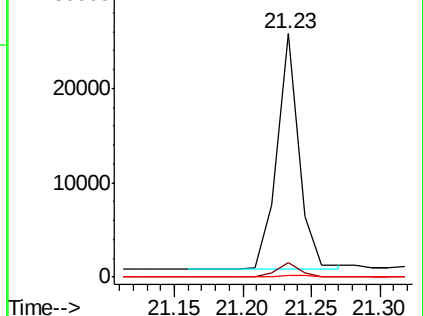
279 0.8 0.6 1.0



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

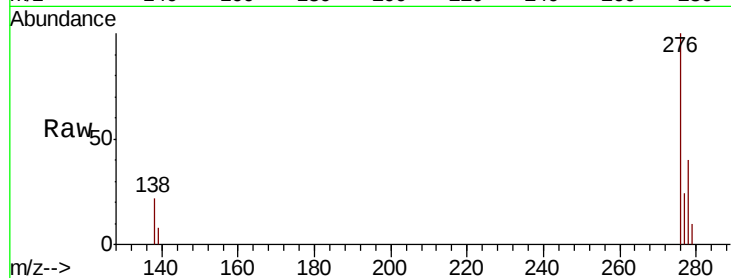




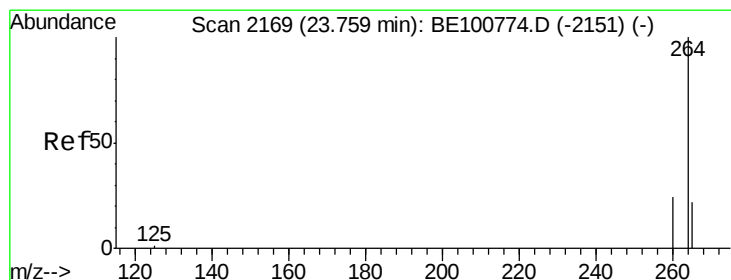
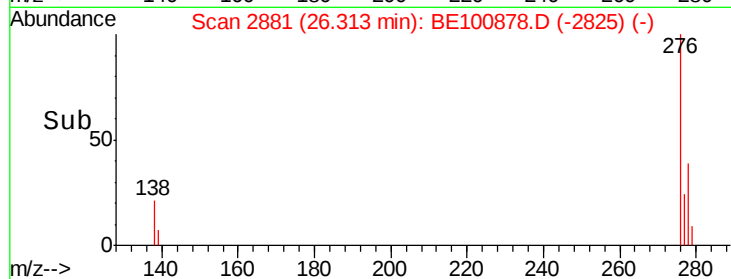
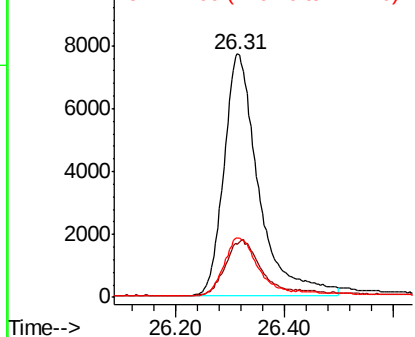
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.471 ng  
RT: 26.31 min Scan# 2881  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:276 Resp: 34122  
Ion Ratio Lower Upper  
276 100  
138 23.2 18.4 27.6  
277 24.6 19.4 29.2

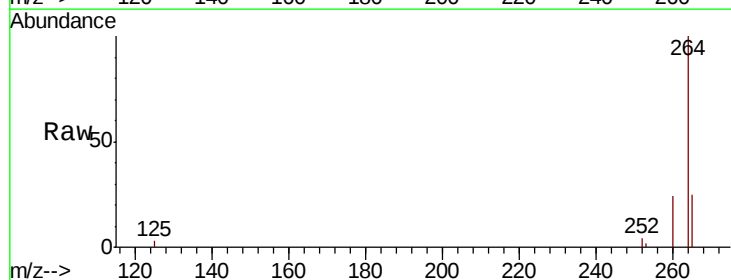


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

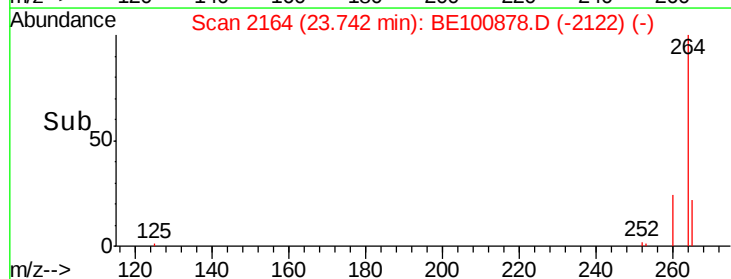
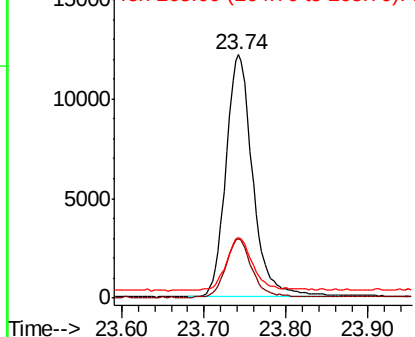


#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.74 min Scan# 2164  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Tgt Ion:264 Resp: 27750  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.4 29.0  
265 25.1 20.1 30.1



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

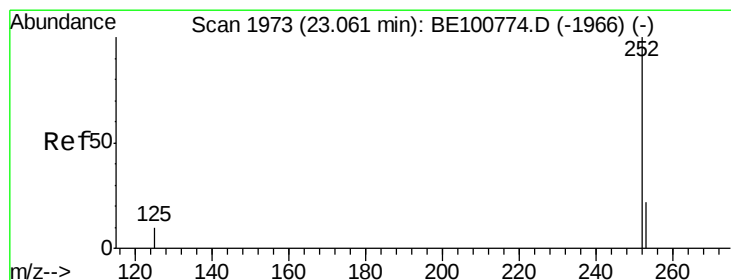
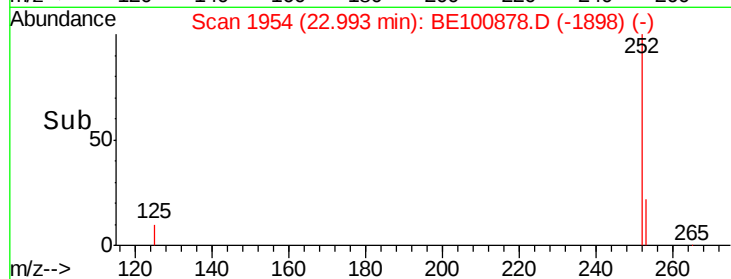
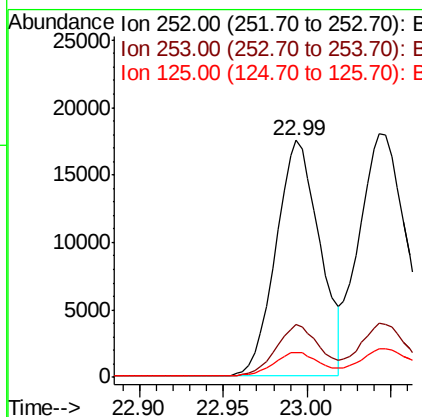
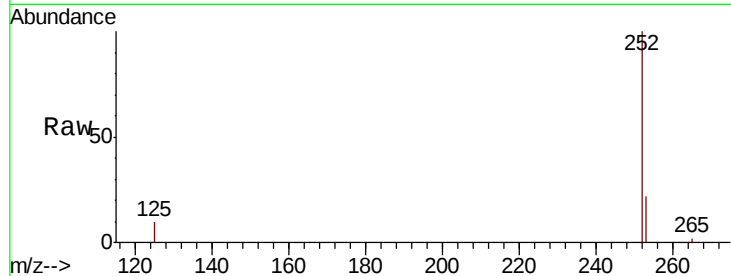




#35  
Benzo(b)fluoranthene  
Concen: 0.423 ng  
RT: 22.99 min Scan# 1954  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

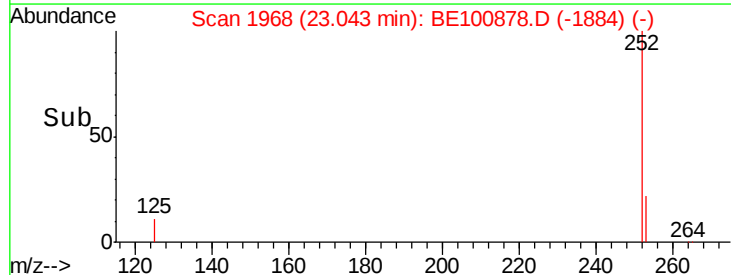
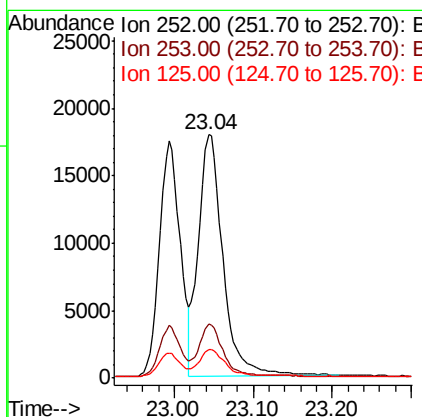
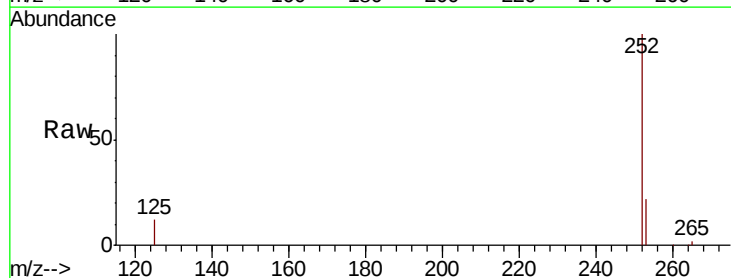
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 32143  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.8 26.6  
125 10.4 8.3 12.5



#36  
Benzo(k)fluoranthene  
Concen: 0.455 ng  
RT: 23.04 min Scan# 1968  
Delta R.T. 0.00 min  
Lab File: BE100878.D  
Acq: 13 Dec 2019 9:35

Tgt Ion:252 Resp: 38788  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.8 26.6  
125 11.7 9.4 14.0





#37

Benzo(a)pyrene

Concen: 0.410 ng

RT: 23.63 min Scan# 2133

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

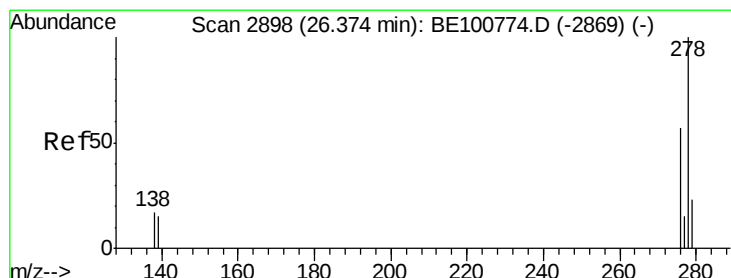
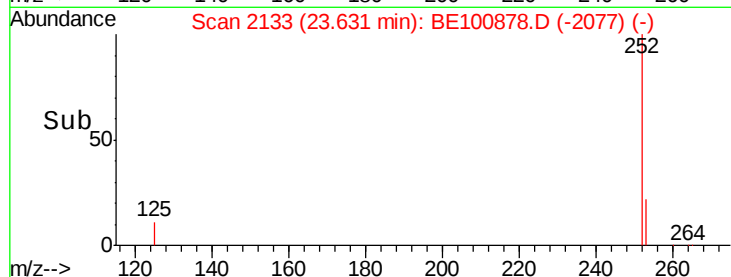
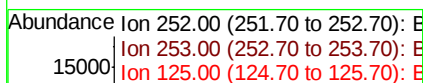
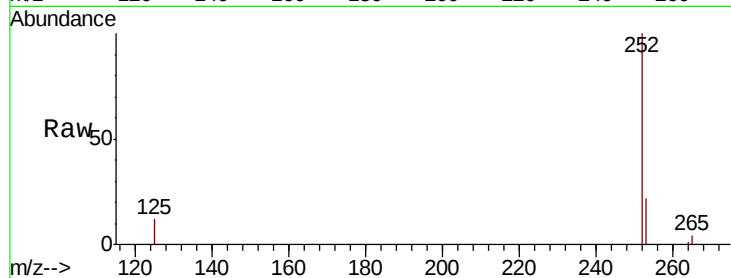
Tot Ion:252 Resp: 26990

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.8

125 12.4 9.9 14.9



#38

Dibenzo(a,h)anthracene

Concen: 0.422 ng

RT: 26.34 min Scan# 2889

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

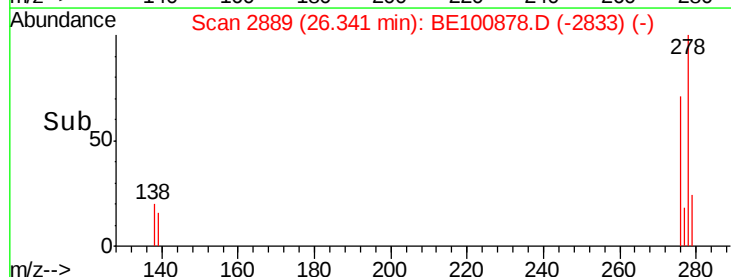
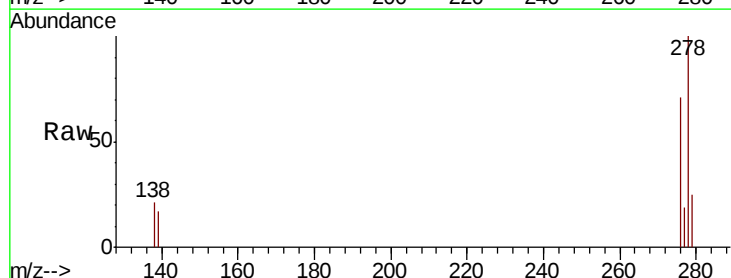
Tgt Ion:278 Resp: 27634

Ion Ratio Lower Upper

278 100

139 17.2 13.8 20.6

279 24.7 19.8 29.6





#39

Benzo(a,h,i)perylene

Concen: 0.435 ng

RT: 27.10 min Scan# 3102

Delta R.T. 0.00 min

Lab File: BE100878.D

Acq: 13 Dec 2019 9:35

Instrument :

BNA\_E

ClientSampleId :

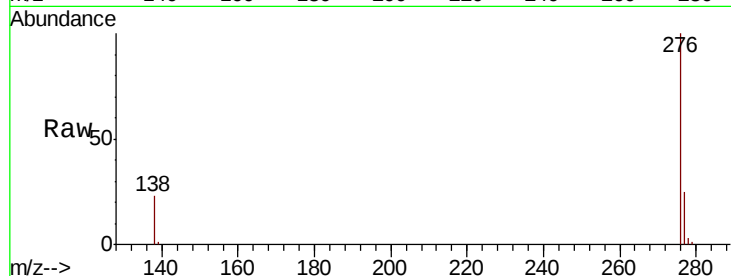
Tot Ion: 276 Resp: 30411

Ion Ratio Lower Upper

276 100

277 24.6 19.7 29.5

138 22.5 18.0 27.0



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

