

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032719\  
 Data File : BF113342.D  
 Acq On : 27 Mar 2019 20:35  
 Operator : JU/SJ  
 Sample : K2097-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-20

Quant Time: Mar 28 01:10:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF032519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 26 03:32:08 2019  
 Response via : Initial Calibration

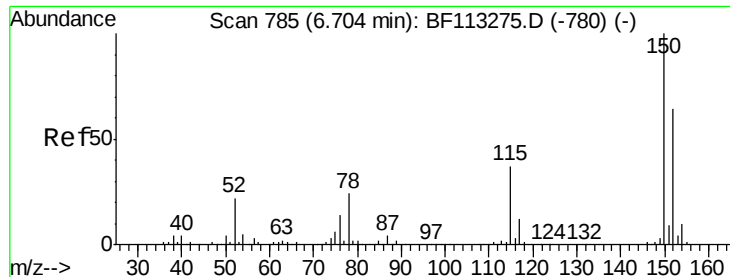
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 173617   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.98  | 136  | 622890   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.73  | 164  | 291795   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.21 | 188  | 495398   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.84 | 240  | 377011   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.26 | 264  | 320730   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 1269273  | 119.54 | ng    | 0.00     |
| 7) Phenol-d6                | 6.36  | 99   | 1654492  | 123.17 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 1029272  | 98.08  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.52 | 330  | 393181   | 109.09 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.06  | 172  | 1610745  | 86.92  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.79 | 244  | 1328452  | 77.67  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.36  | 94   | 58538    | 3.817     | ng    | 94     |
| 19) n-Nitroso-di-n-propylamine | 7.27  | 70   | 136099   | 16.131    | ng    | # 77   |
| 20) 3+4-Methylphenols          | 7.15  | 107  | 6183     | Below Cal |       | 83     |
| 25) Isophorone                 | 7.27  | 82   | 1019424  | 50.124    | ng    | # 64   |
| 31) Naphthalene                | 8.00  | 128  | 364990   | 11.991    | ng    | 98     |
| 33) 4-Chloroaniline            | 8.00  | 127  | 49574    | 4.177     | ng    | # 34   |
| 35) Caprolactam                | 8.42  | 113  | 8923     | 3.081     | ng    | # 48   |
| 37) 2-Methylnaphthalene        | 8.70  | 142  | 123465   | 6.501     | ng    | 97     |
| 38) 1-Methylnaphthalene        | 8.79  | 142  | 50358    | 2.757     | ng    | 100    |
| 46) 1,1'-Biphenyl              | 9.16  | 154  | 60552    | 2.485     | ng    | 98     |
| 49) Acenaphthylene             | 9.59  | 152  | 318107   | 10.485    | ng    | 99     |
| 50) Dimethylphthalate          | 9.45  | 163  | 185442   | 8.576     | ng    | 99     |
| 55) Dibenzofuran               | 9.93  | 168  | 99373    | 3.869     | ng    | # 96   |
| 67) 4-Bromophenyl-phenylether  | 10.52 | 248  | 22899    | 4.241     | ng    | # 1    |
| 71) Phenanthrene               | 11.23 | 178  | 360522   | 14.654    | ng    | 98     |
| 72) Anthracene                 | 11.29 | 178  | 312647   | 12.511    | ng    | 99     |
| 73) Carbazole                  | 11.44 | 167  | 183463   | 7.694     | ng    | 99     |
| 75) Fluoranthene               | 12.42 | 202  | 1004914  | 36.133    | ng    | 99     |
| 78) Pyrene                     | 12.64 | 202  | 1054832  | 40.375    | ng    | 99     |
| 81) Benzo(a)anthracene         | 13.87 | 228  | 957541   | 44.370    | ng    | 95     |
| 83) Chrysene                   | 13.87 | 228  | 957541   | 43.683    | ng    | 98     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.62 | 276  | 465638   | 24.752    | ng    | 97     |
| 88) Benzo(b)fluoranthene       | 14.86 | 252  | 1735627  | 87.114    | ng    | # 96   |
| 89) Benzo(k)fluoranthene       | 14.86 | 252  | 1735627  | 99.198    | ng    | # 95   |
| 90) Benzo(a)pyrene             | 15.20 | 252  | 472560   | 26.754    | ng    | 96     |
| 91) Dibenzo(a,h)anthracene     | 16.49 | 278  | 53634    | 3.512     | ng    | 93     |
| 92) Benzo(g,h,i)perylene       | 17.02 | 276  | 430094   | 27.930    | ng    | 98     |

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



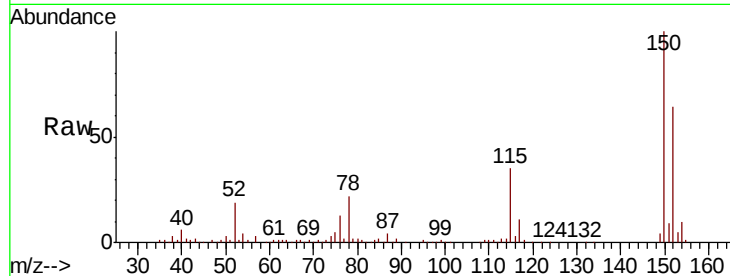


#1

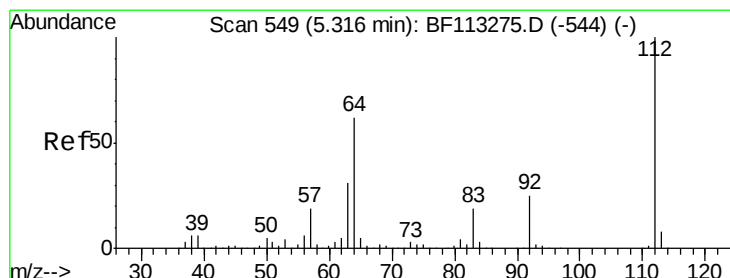
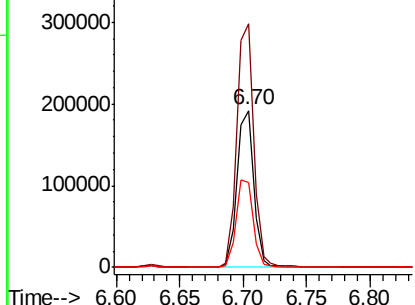
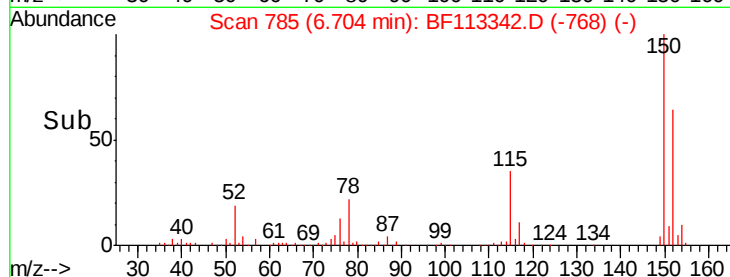
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. -0.00 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Instrument :  
BNA\_F  
ClientSampleId :  
CS-20

Tgt Ion:152 Resp: 173617  
Ion Ratio Lower Upper  
152 100  
150 155.3 124.7 187.1  
115 54.2 46.0 69.0



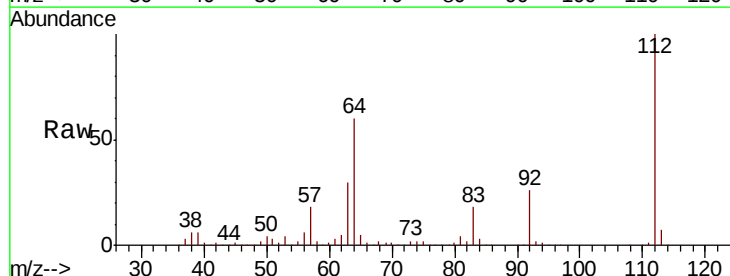
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



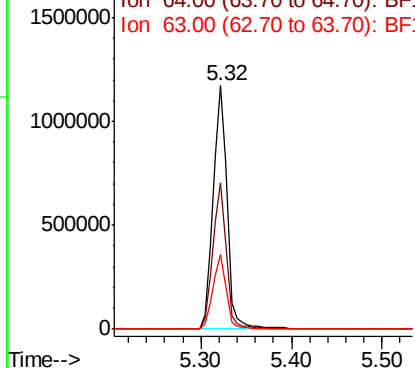
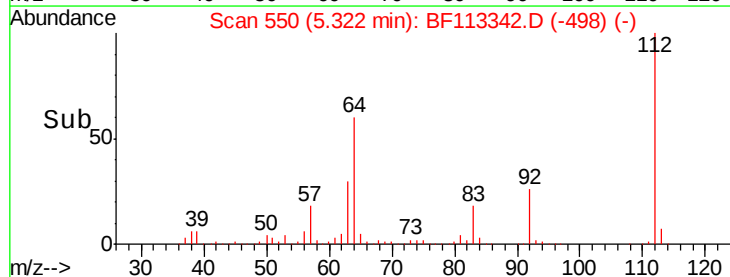
#5

2-Fluorophenol  
Concen: 119.540 ng  
RT: 5.32 min Scan# 550  
Delta R.T. 0.01 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Tgt Ion:112 Resp: 1269273  
Ion Ratio Lower Upper  
112 100  
64 60.0 49.2 73.8  
63 30.5 24.9 37.3



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 123.172 ng

RT: 6.36 min Scan# 726

Delta R.T. 0.00 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampleId :

CS-20

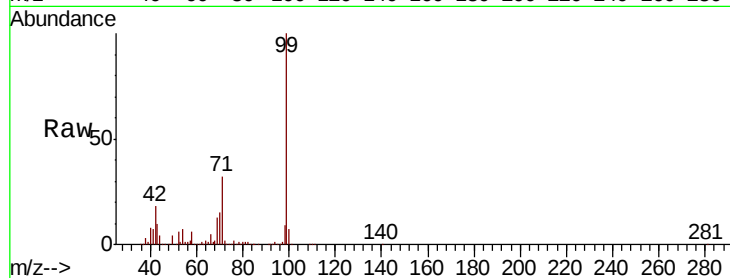
Tgt Ion: 99 Resp: 1654492

Ion Ratio Lower Upper

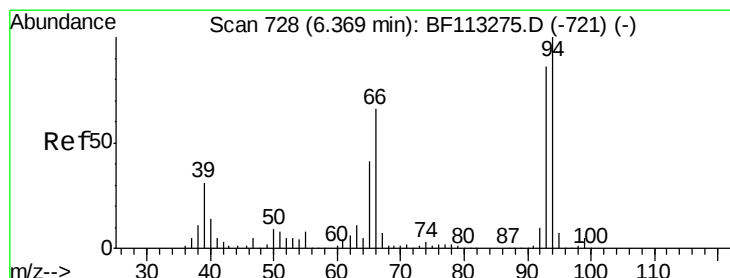
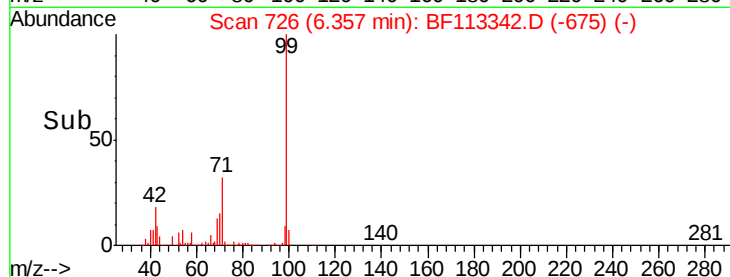
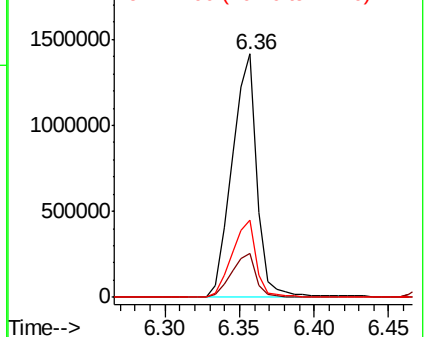
99 100

42 18.1 14.8 22.2

71 31.9 24.9 37.3



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.817 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

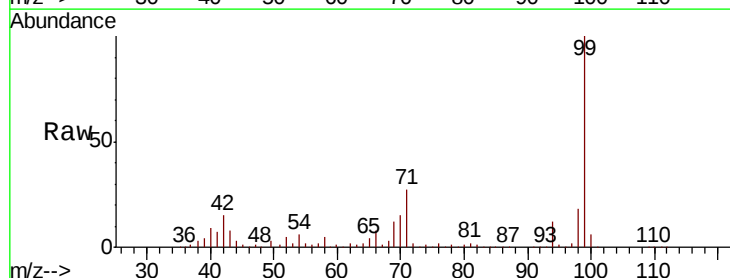
Tgt Ion: 94 Resp: 58538

Ion Ratio Lower Upper

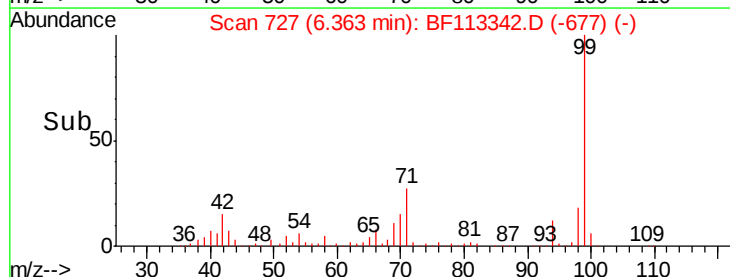
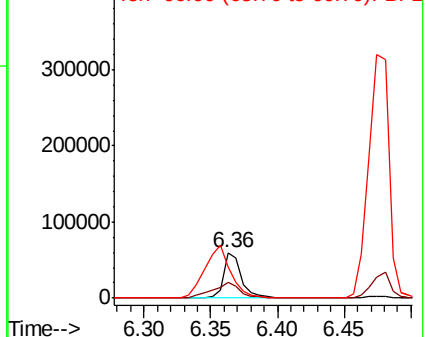
94 100

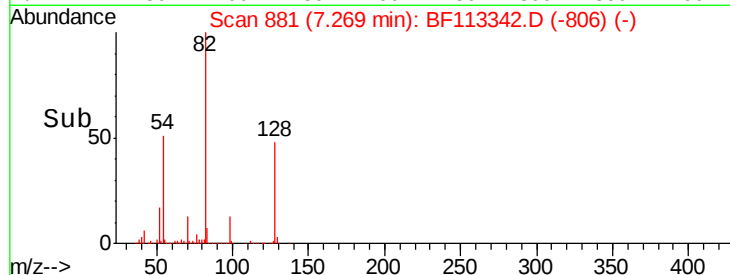
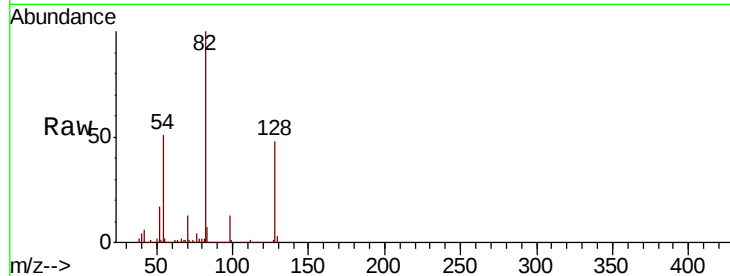
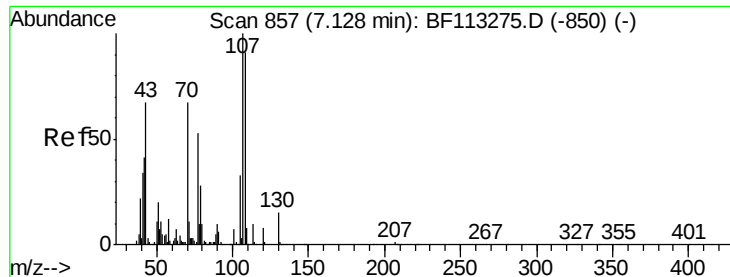
65 35.3 21.4 61.4

66 69.3 46.4 86.4



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

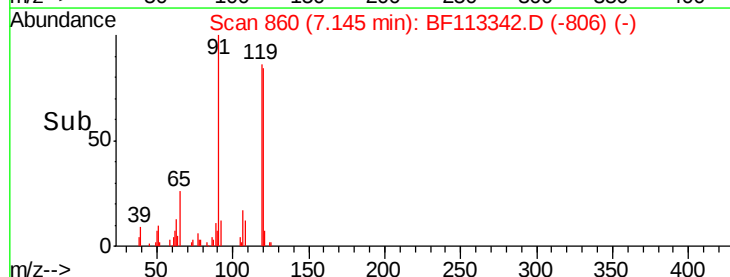
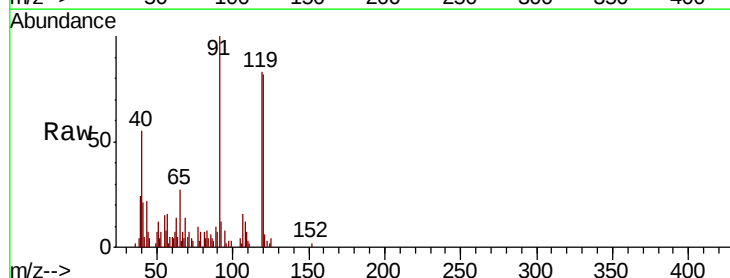
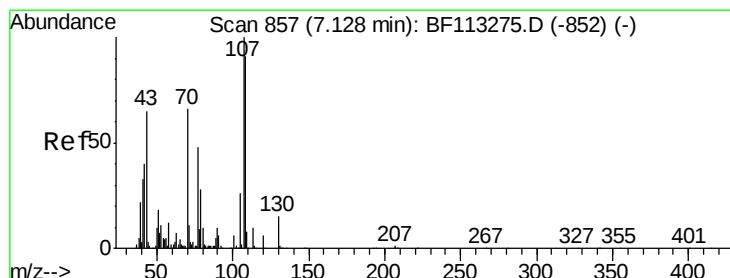
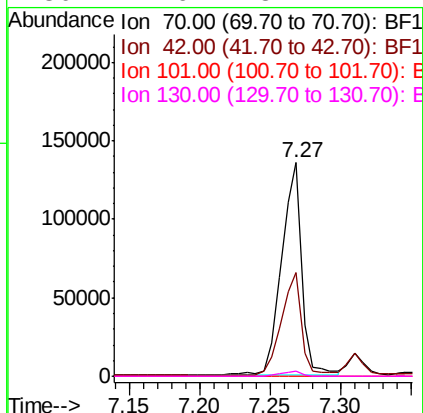




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.131 ng  
RT: 7.27 min Scan# 881  
Delta R.T. 0.14 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

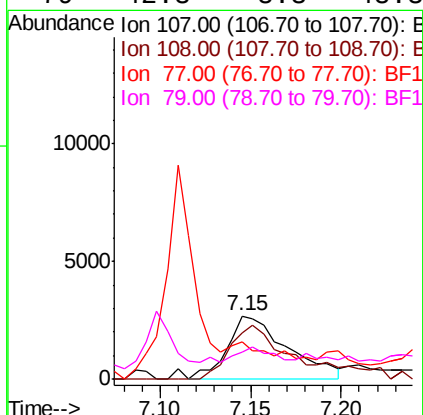
Instrument :  
BNA\_F  
ClientSampleId :  
CS-20

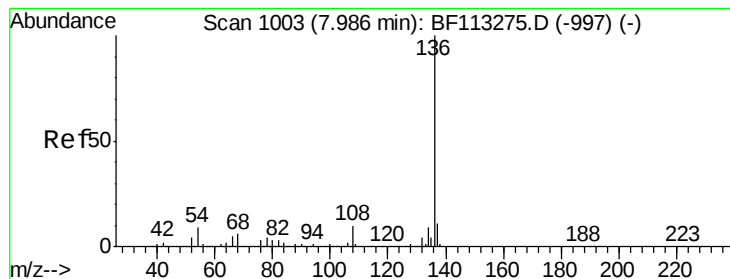
Tgt Ion: 70 Resp: 136099  
Ion Ratio Lower Upper  
70 100  
42 48.5 48.4 72.6  
101 0.0 7.8 11.8#  
130 2.6 18.2 27.4#



#20  
3+4-Methylphenols  
Concen: Below Cal  
RT: 7.15 min Scan# 860  
Delta R.T. 0.02 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Tgt Ion: 107 Resp: 6183  
Ion Ratio Lower Upper  
107 100  
108 72.2 71.4 111.4  
77 58.7 33.5 73.5  
79 42.3 8.3 48.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampleId :

CS-20

Tgt Ion:136 Resp: 622890

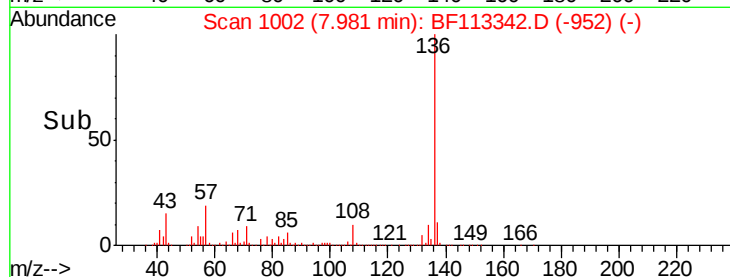
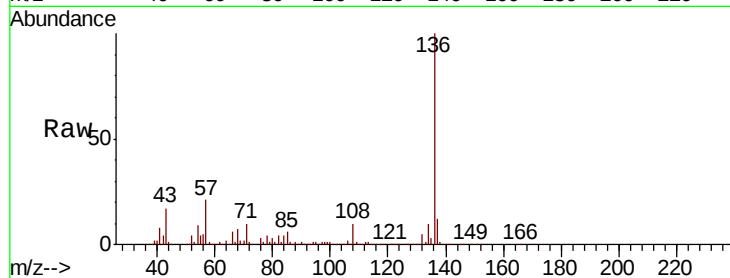
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 9.0 7.0 10.6

68 6.6 4.8 7.2

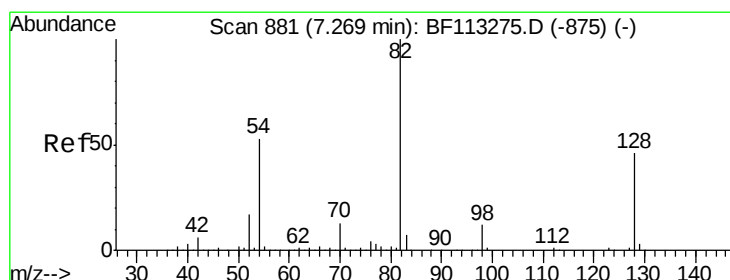
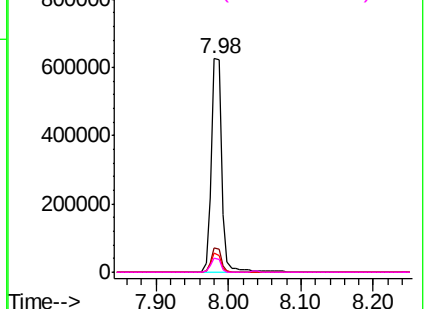


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 98.077 ng

RT: 7.27 min Scan# 881

Delta R.T. 0.00 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

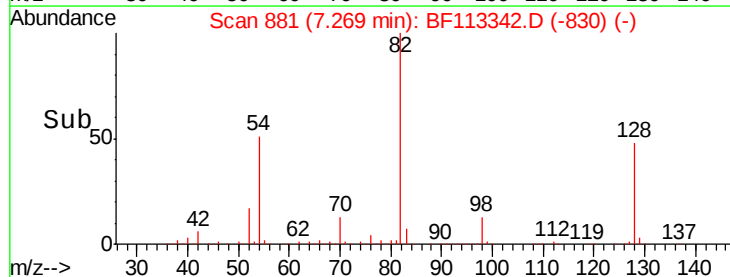
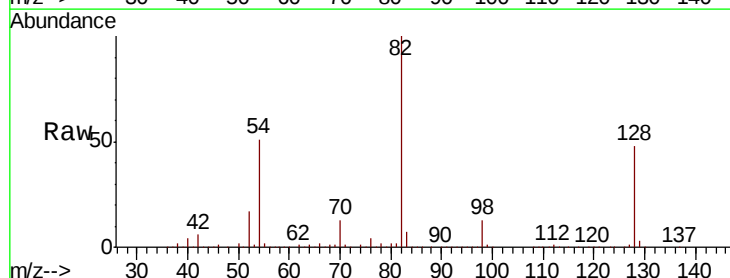
Tgt Ion: 82 Resp: 1029272

Ion Ratio Lower Upper

82 100

128 48.2 36.5 54.7

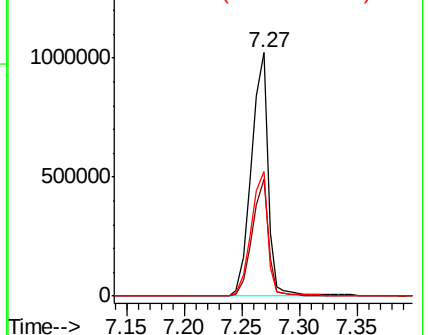
54 51.3 42.2 63.2

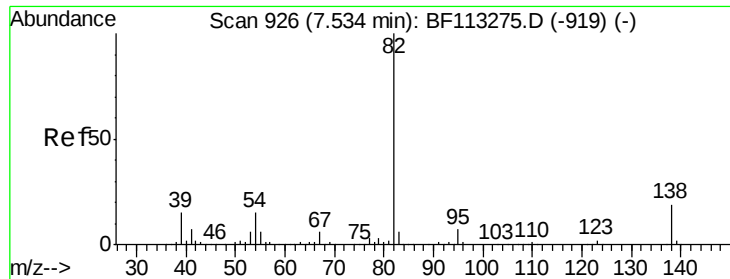


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

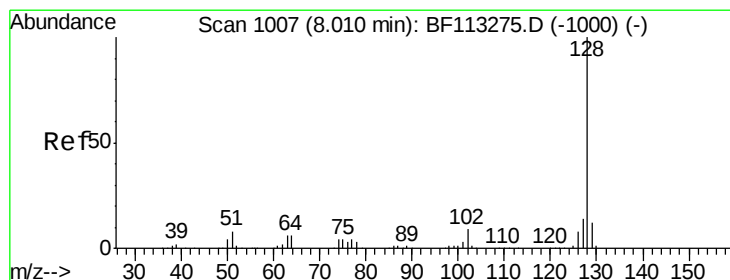
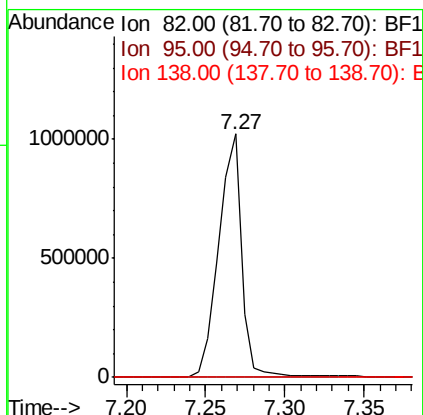
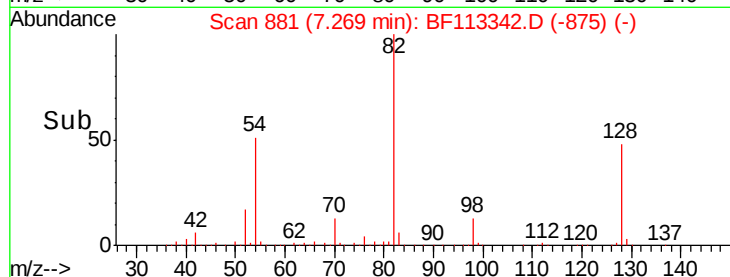
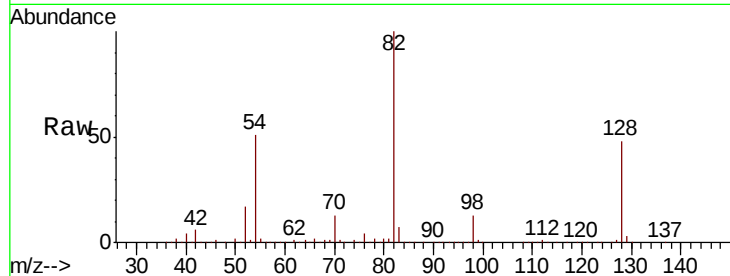




#25  
Isophorone  
Concen: 50.124 ng  
RT: 7.27 min Scan# 881  
Delta R.T. -0.26 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

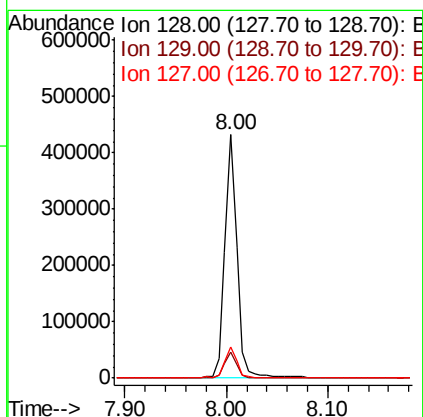
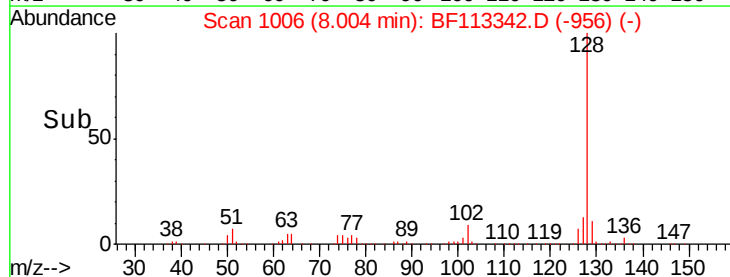
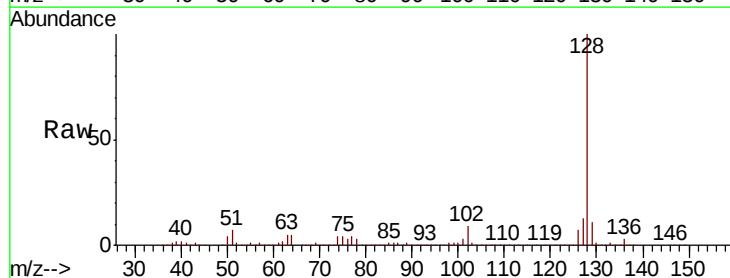
Instrument :  
BNA\_F  
ClientSampleId :  
CS-20

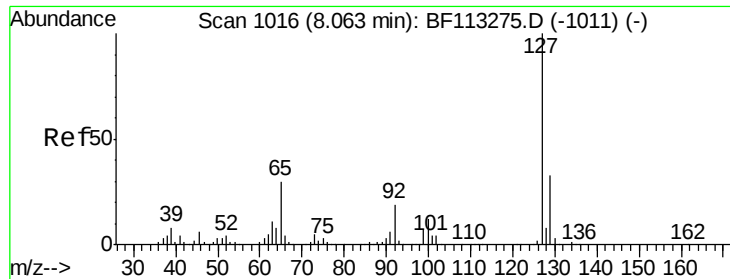
Tgt Ion: 82 Resp: 1019424  
Ion Ratio Lower Upper  
82 100  
95 0.2 5.5 8.3#  
138 0.0 15.2 22.8#



#31  
Naphthalene  
Concen: 11.991 ng  
RT: 8.00 min Scan# 1006  
Delta R.T. -0.01 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Tgt Ion: 128 Resp: 364990  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.3 13.9  
127 13.0 10.9 16.3

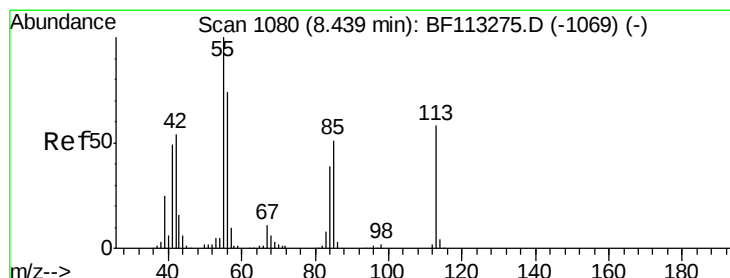
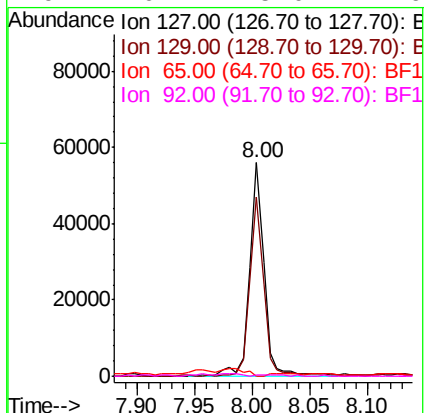
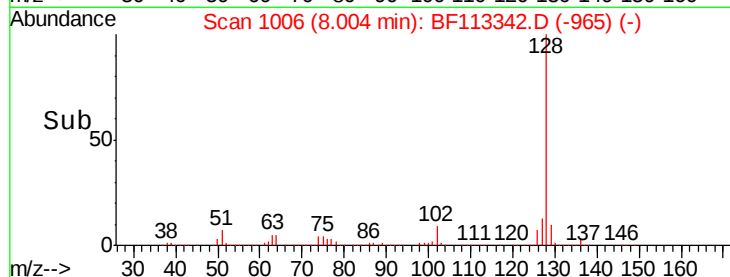
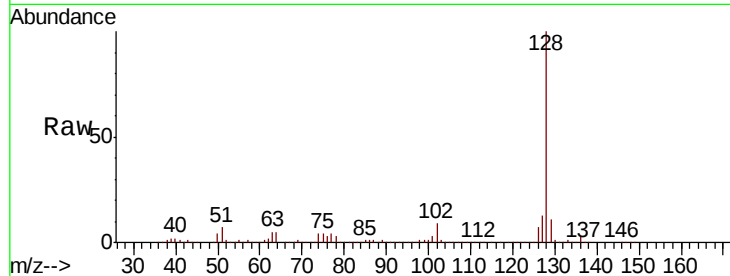




#33  
4-Chloroaniline  
Concen: 4.177 ng  
RT: 8.00 min Scan# 1006  
Delta R.T. -0.06 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

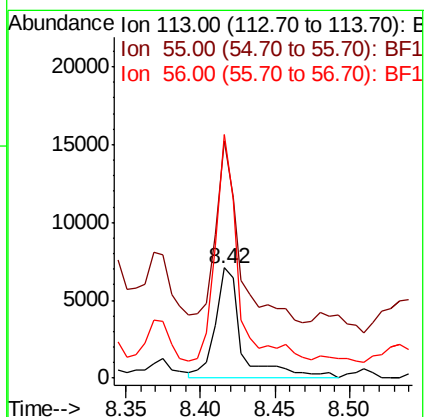
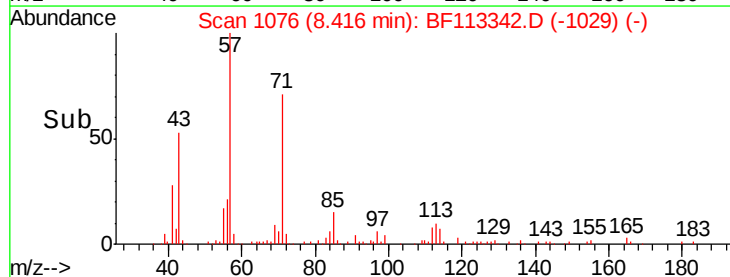
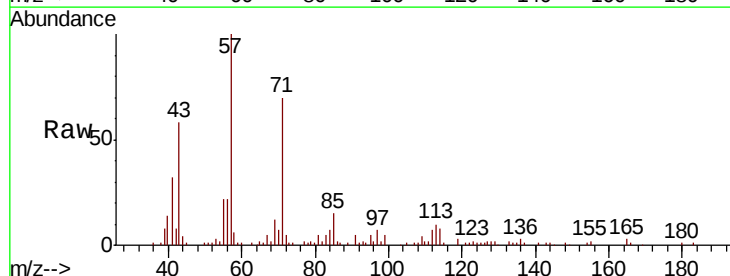
Instrument :  
BNA\_F  
ClientSampleId :  
CS-20

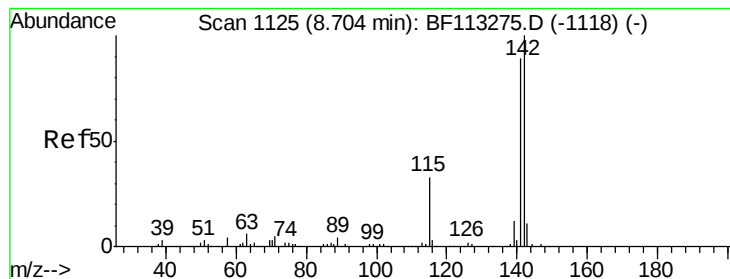
Tgt Ion:127 Resp: 49574  
Ion Ratio Lower Upper  
127 100  
129 83.8 26.3 39.5#  
65 0.0 24.2 36.4#  
92 0.7 15.0 22.6#



#35  
Caprolactam  
Concen: 3.081 ng  
RT: 8.42 min Scan# 1076  
Delta R.T. -0.02 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Tgt Ion:113 Resp: 8923  
Ion Ratio Lower Upper  
113 100  
55 215.3 152.7 192.7#  
56 221.4 108.3 148.3#





#37

2-Methylnaphthalene

Concen: 6.501 ng

RT: 8.70 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampleId :

CS-20

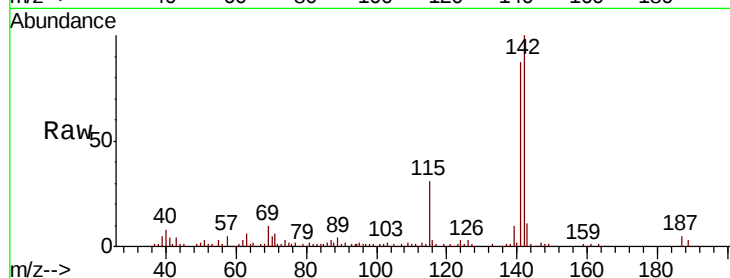
Tgt Ion:142 Resp: 123465

Ion Ratio Lower Upper

142 100

141 86.6 71.0 106.6

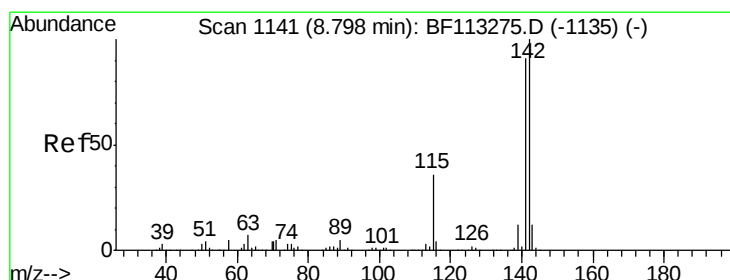
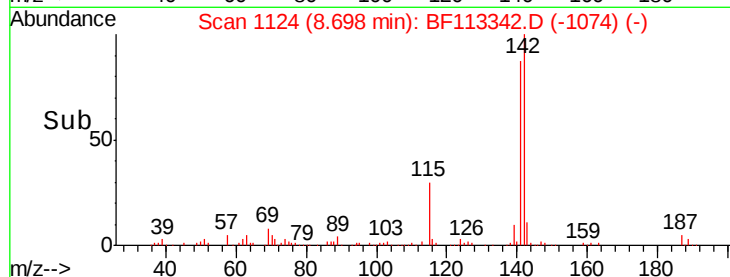
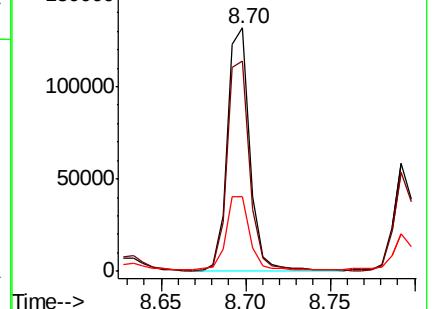
115 30.6 26.6 39.8



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



#38

1-Methylnaphthalene

Concen: 2.757 ng

RT: 8.79 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

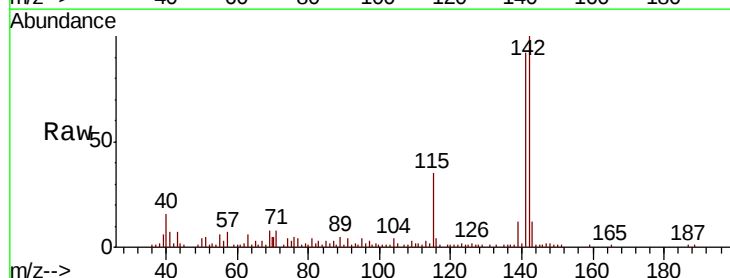
Tgt Ion:142 Resp: 50358

Ion Ratio Lower Upper

142 100

141 91.8 73.2 109.8

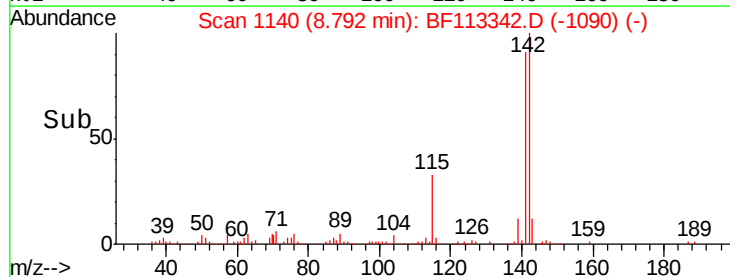
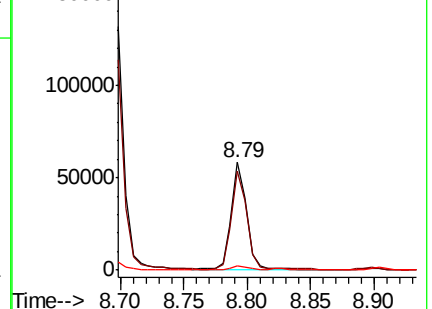
116 3.8 3.0 4.4

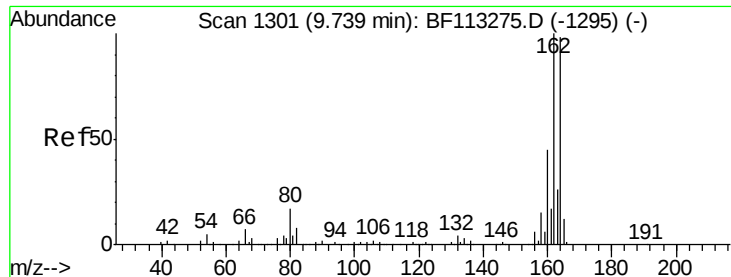


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

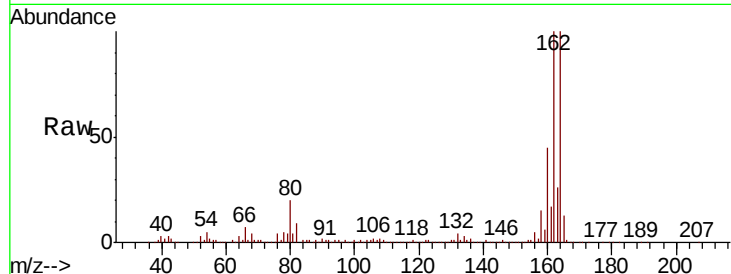




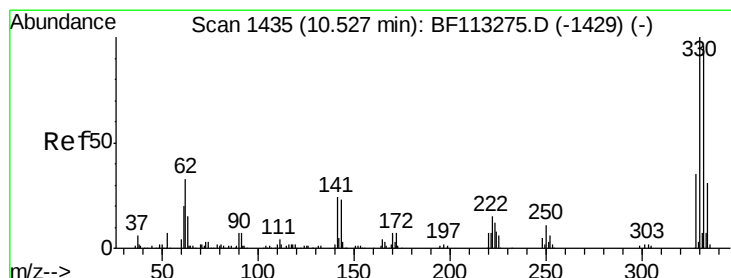
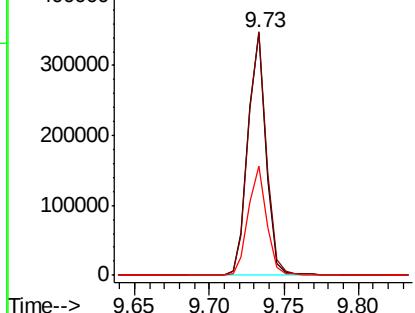
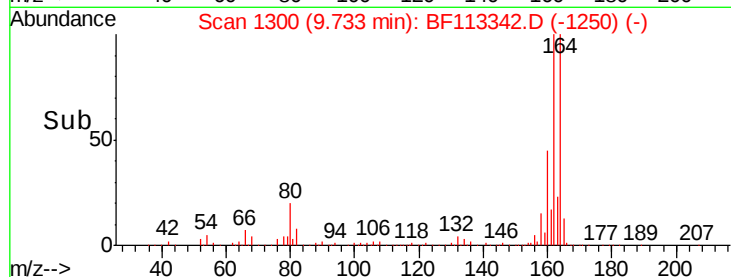
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BF113342.D  
 Acq: 27 Mar 2019 20:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-20

Tgt Ion:164 Resp: 291795  
 Ion Ratio Lower Upper  
 164 100  
 162 100.2 81.8 122.6  
 160 44.9 36.4 54.6

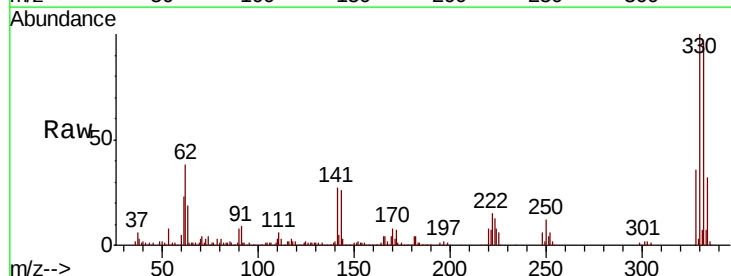


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

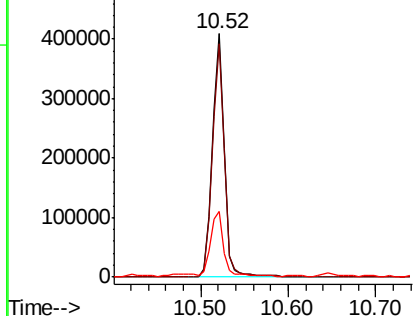
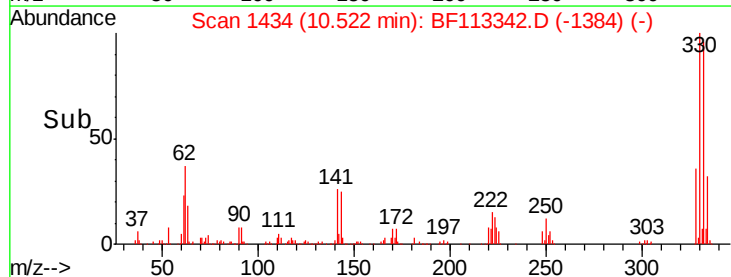


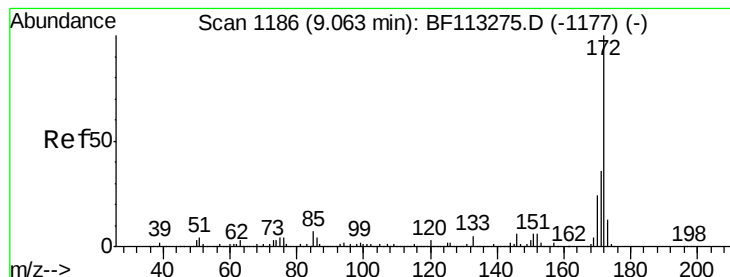
#42  
 2,4,6-Tribromophenol  
 Concen: 109.086 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF113342.D  
 Acq: 27 Mar 2019 20:35

Tgt Ion:330 Resp: 393181  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 77.8 116.6  
 141 28.9 22.7 34.1



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 86.918 ng

RT: 9.06 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampled :

CS-20

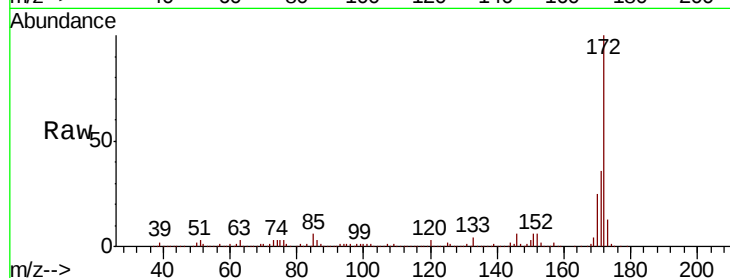
Tgt Ion:172 Resp: 1610745

Ion Ratio Lower Upper

172 100

171 36.3 29.0 43.6

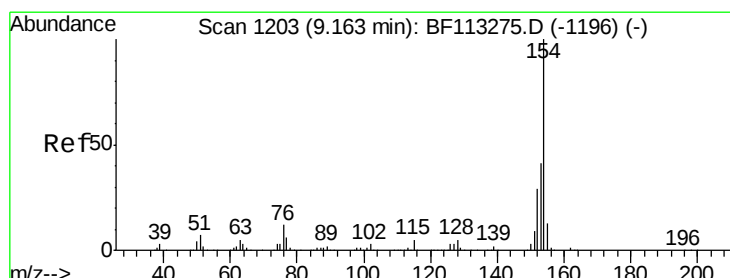
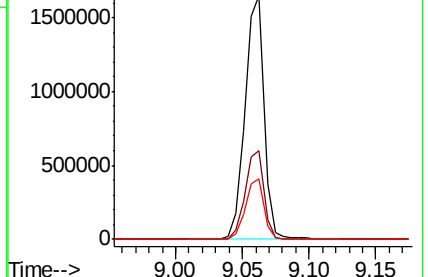
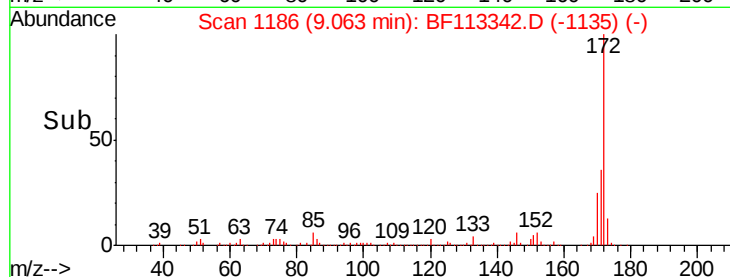
170 24.7 19.5 29.3



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



#46

1,1'-Biphenyl

Concen: 2.485 ng

RT: 9.16 min Scan# 1202

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

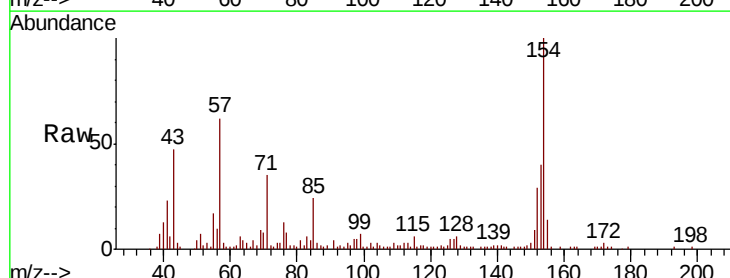
Tgt Ion:154 Resp: 60552

Ion Ratio Lower Upper

154 100

153 40.0 20.8 60.8

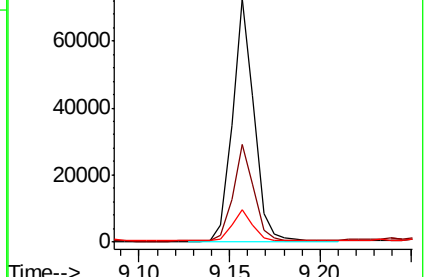
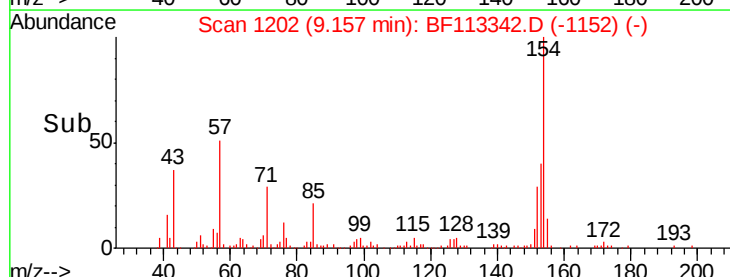
76 13.1 0.0 31.9

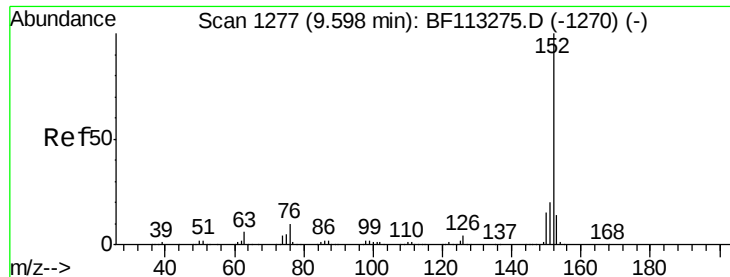


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1





#49

Acenaphthylene

Concen: 10.485 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampleId :

CS-20

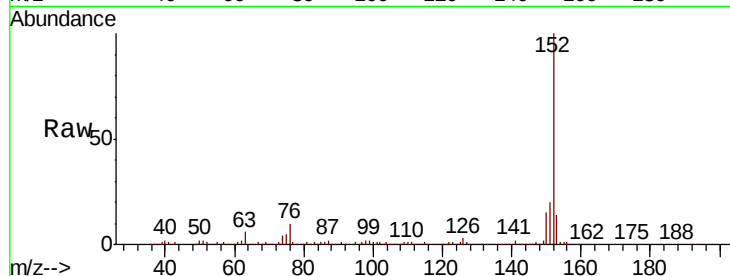
Tgt Ion:152 Resp: 318107

Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.4

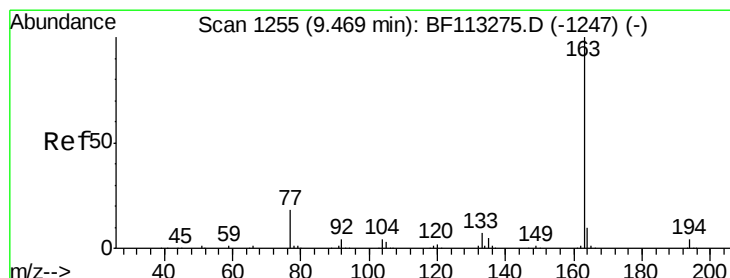
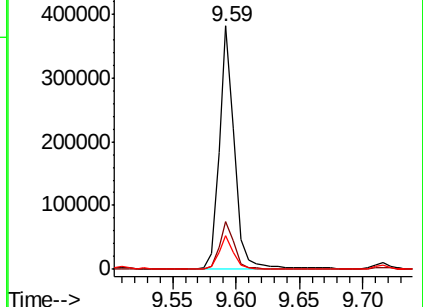
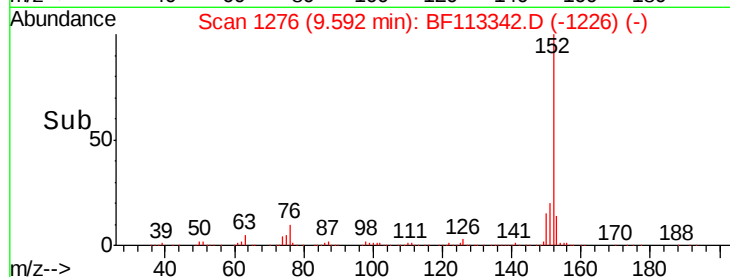
153 13.6 11.0 16.6



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



#50

Dimethylphthalate

Concen: 8.576 ng

RT: 9.45 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

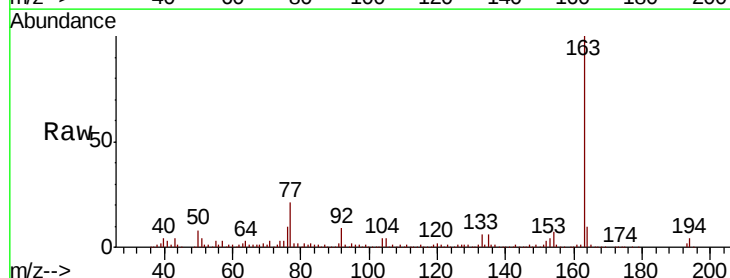
Tgt Ion:163 Resp: 185442

Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.6

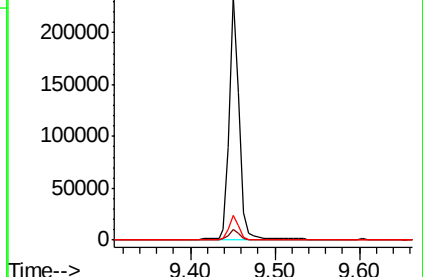
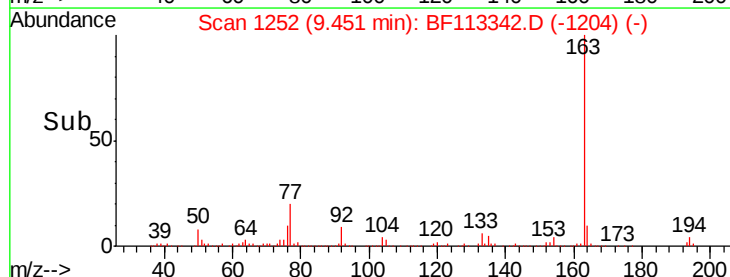
164 10.0 8.1 12.1

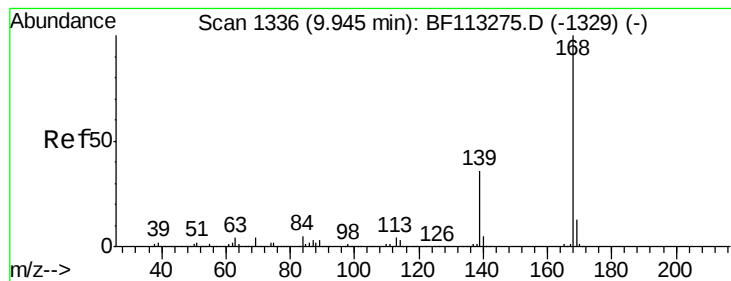


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#55

Dibenzofuran

Concen: 3.869 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampled :

CS-20

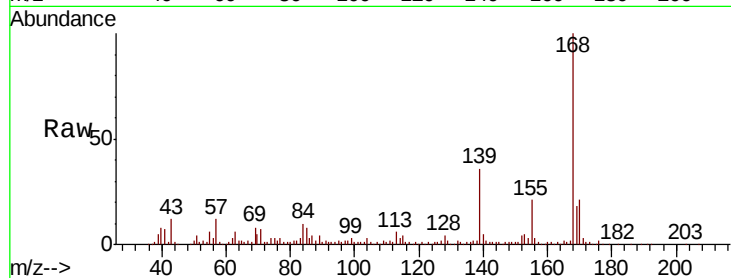
Tgt Ion:168 Resp: 99373

Ion Ratio Lower Upper

168 100

139 36.2 29.7 44.5

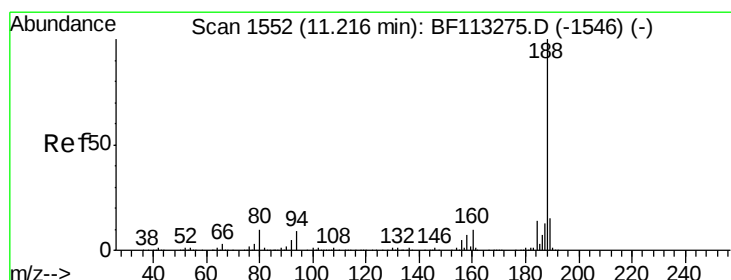
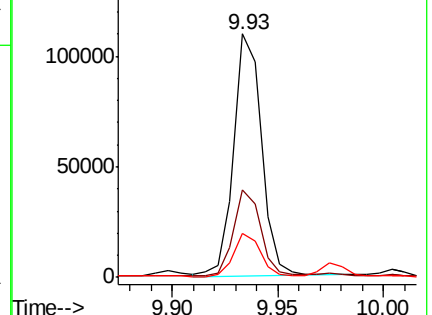
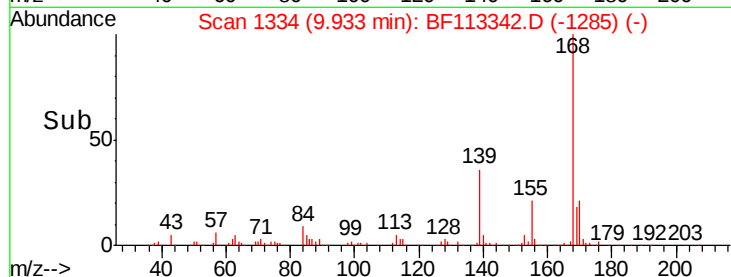
169 17.8 10.7 16.1#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.21 min Scan# 1551

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

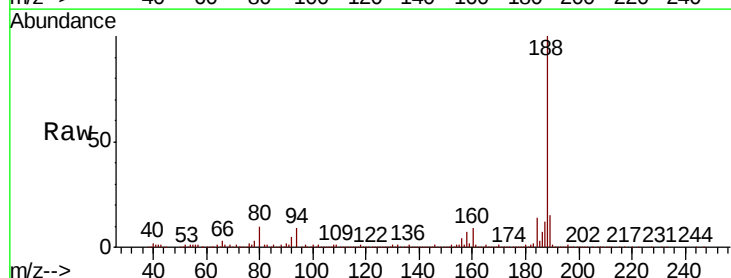
Tgt Ion:188 Resp: 495398

Ion Ratio Lower Upper

188 100

94 9.3 7.0 10.6

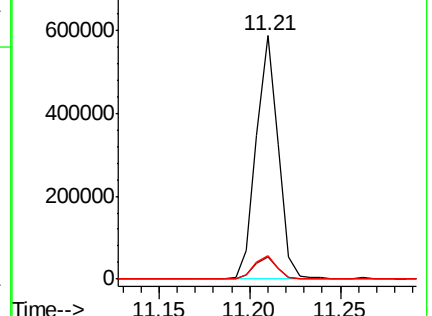
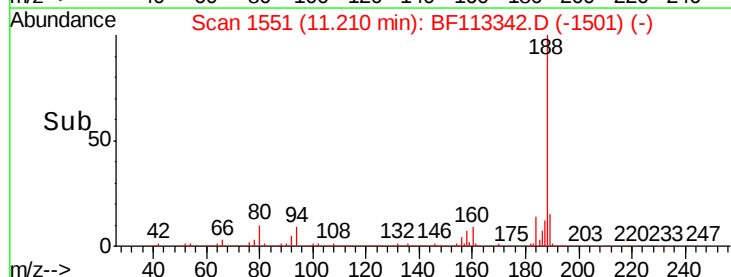
80 9.8 7.7 11.5

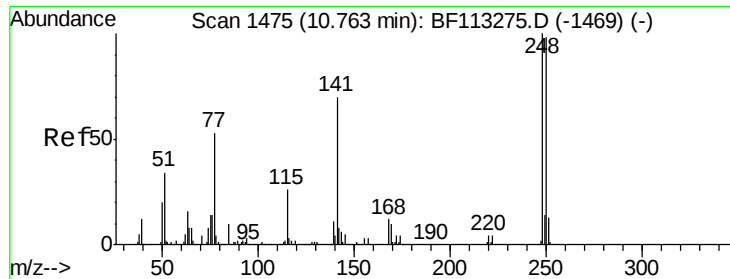


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

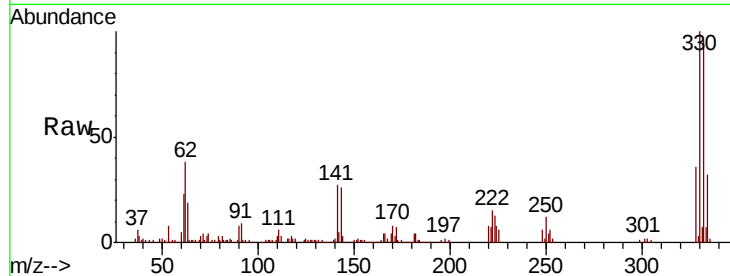




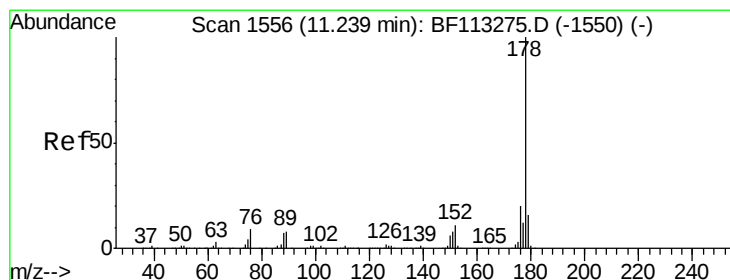
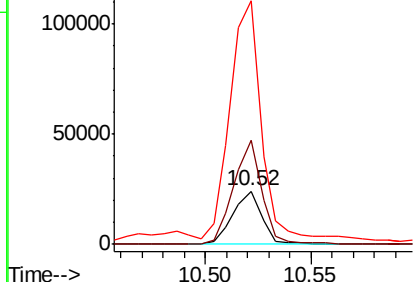
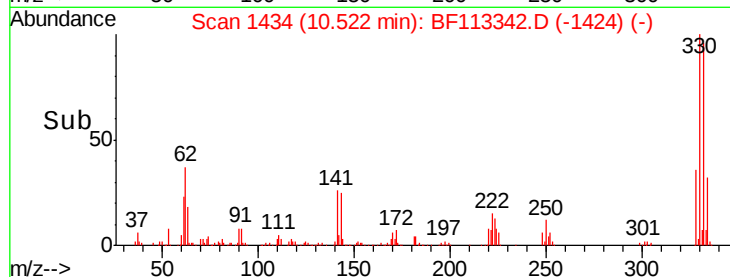
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.241 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.24 min  
 Lab File: BF113342.D  
 Acq: 27 Mar 2019 20:35

Instrument :  
 BNA\_F  
 ClientSampled :  
 CS-20

Tgt Ion:248 Resp: 22899  
 Ion Ratio Lower Upper  
 248 100  
 250 196.5 78.3 117.5#  
 141 459.6 56.2 84.4#

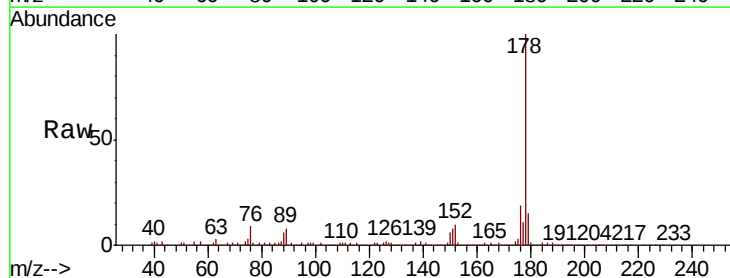


Abundance Ion 248.00 (247.70 to 248.70): E  
 150000 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

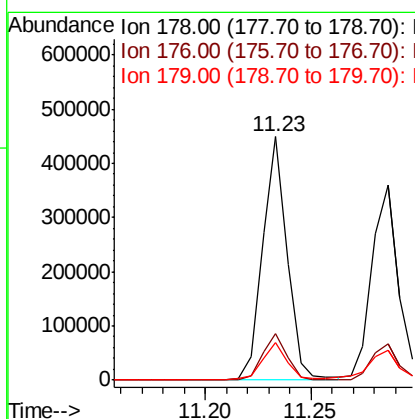
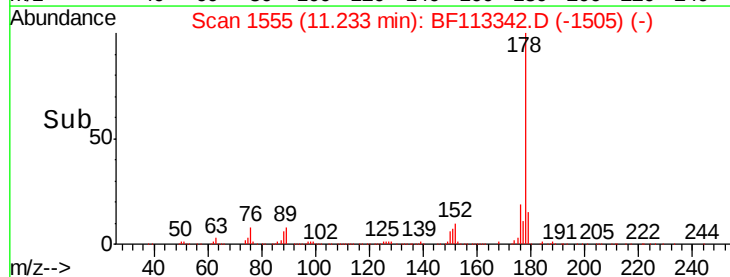


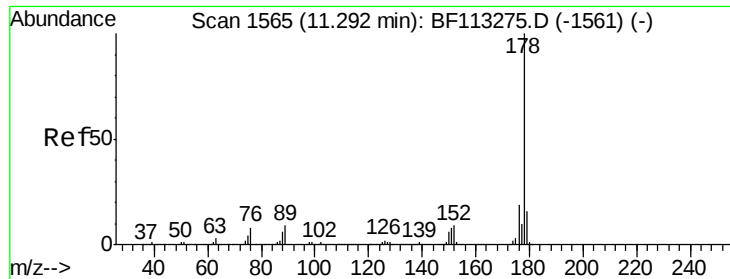
#71  
 Phenanthrene  
 Concen: 14.654 ng  
 RT: 11.23 min Scan# 1555  
 Delta R.T. -0.01 min  
 Lab File: BF113342.D  
 Acq: 27 Mar 2019 20:35

Tgt Ion:178 Resp: 360522  
 Ion Ratio Lower Upper  
 178 100  
 176 19.3 16.2 24.2  
 179 15.3 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E  
 600000 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 12.511 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampled :

CS-20

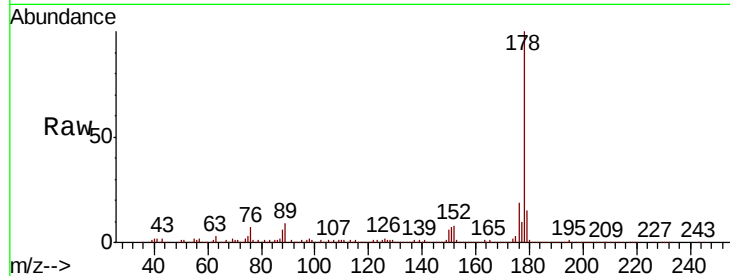
Tgt Ion:178 Resp: 312647

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

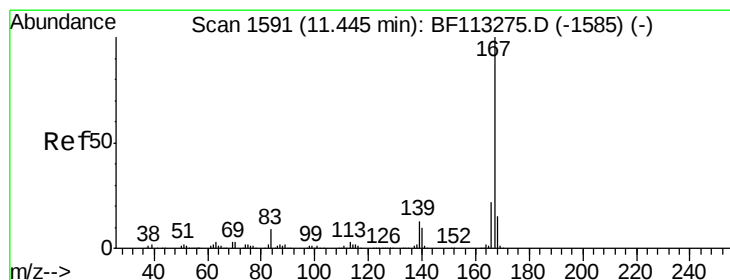
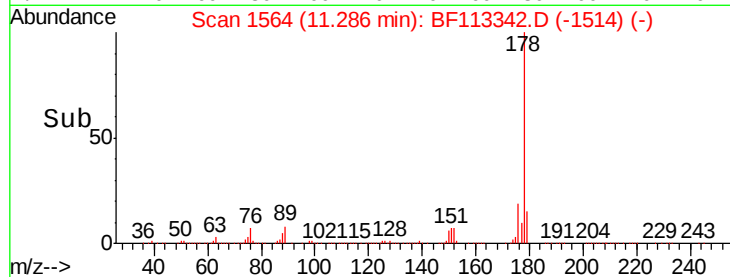
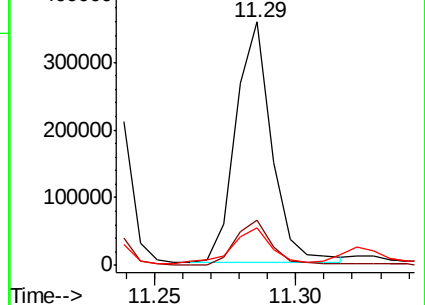
179 15.2 12.8 19.2



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



#73

Carbazole

Concen: 7.694 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

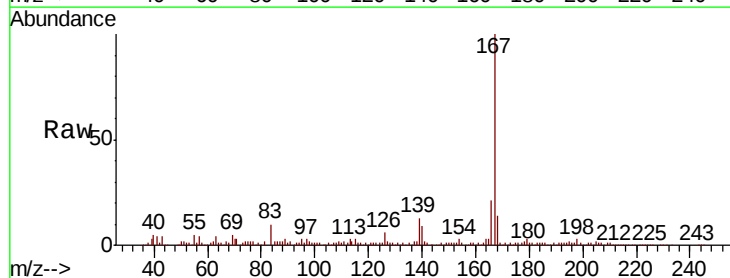
Tgt Ion:167 Resp: 183463

Ion Ratio Lower Upper

167 100

166 21.4 17.4 26.0

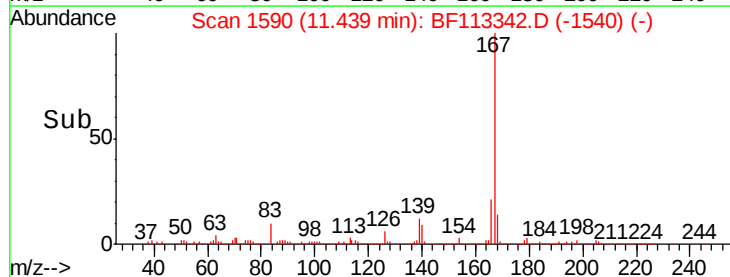
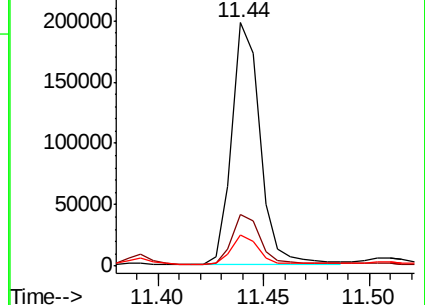
139 12.8 10.4 15.6

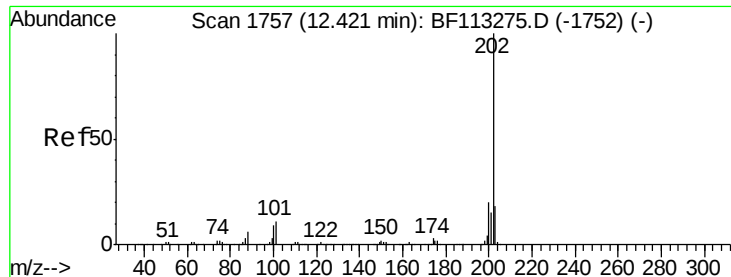


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 36.133 ng

RT: 12.42 min Scan# 1757

Delta R.T. -0.00 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampleId :

CS-20

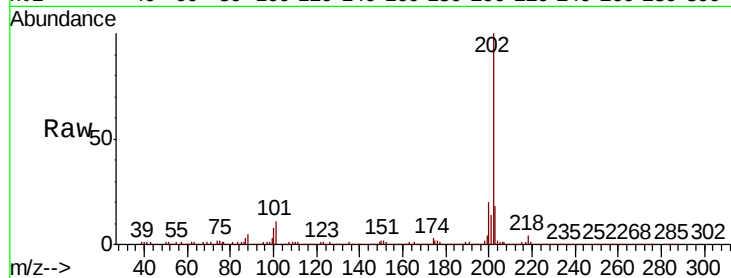
Tgt Ion:202 Resp: 1004914

Ion Ratio Lower Upper

202 100

101 11.0 0.0 31.4

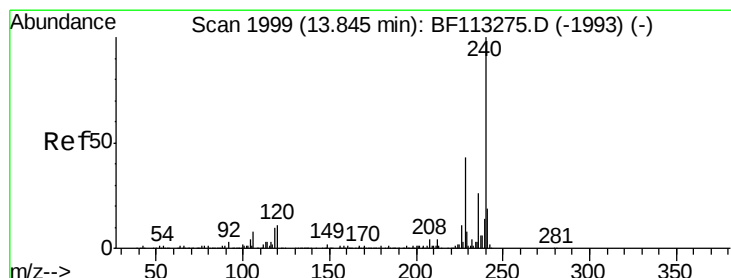
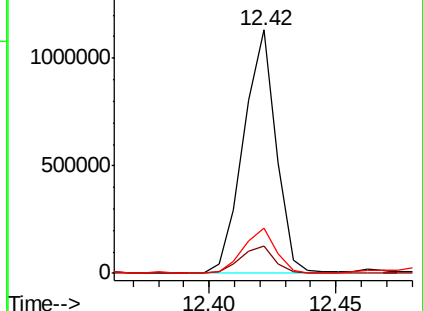
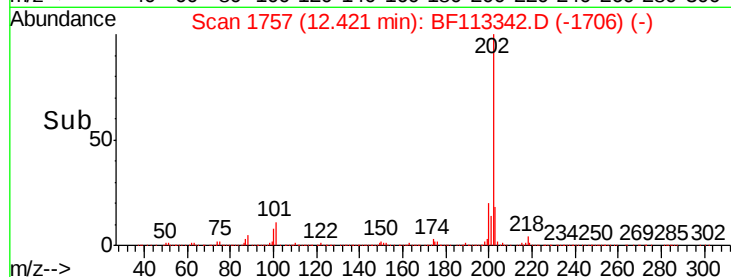
203 18.3 0.0 38.0



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

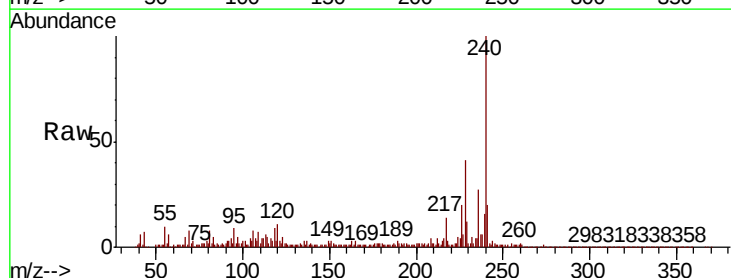
Tgt Ion:240 Resp: 377011

Ion Ratio Lower Upper

240 100

120 11.2 8.8 13.2

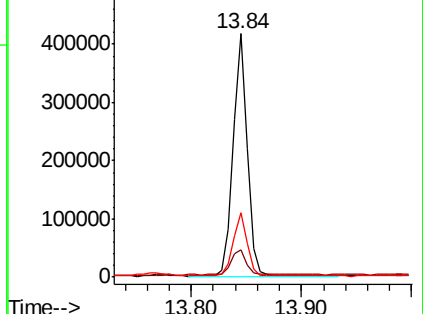
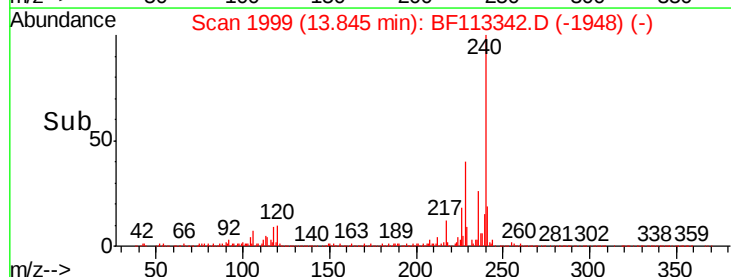
236 26.5 20.9 31.3

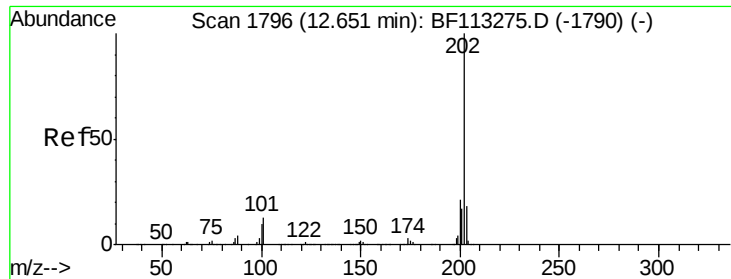


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

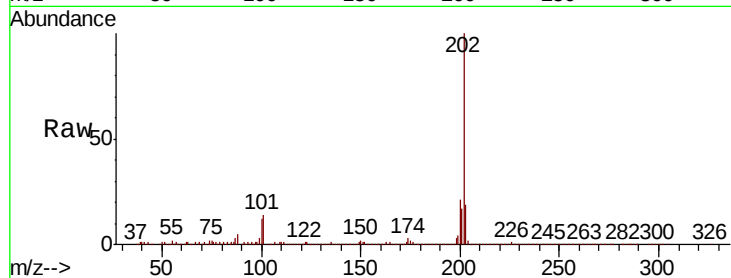




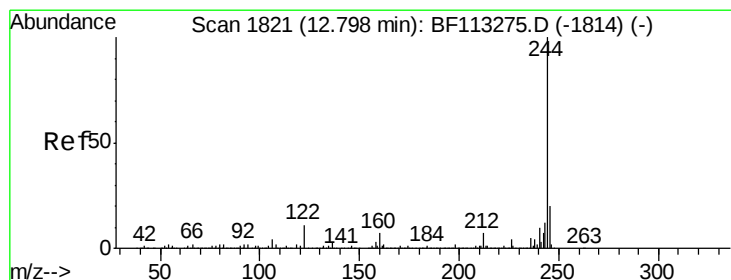
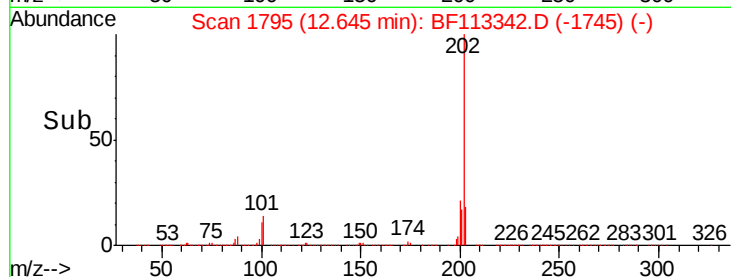
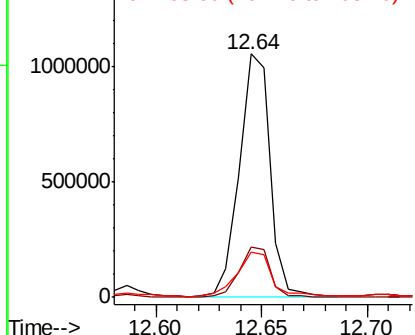
#78  
Pyrene  
Concen: 40.375 ng  
RT: 12.64 min Scan# 1795  
Delta R.T. -0.01 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Instrument :  
BNA\_F  
ClientSampled :  
CS-20

Tgt Ion:202 Resp: 1054832  
Ion Ratio Lower Upper  
202 100  
200 20.7 16.8 25.2  
203 18.6 14.4 21.6

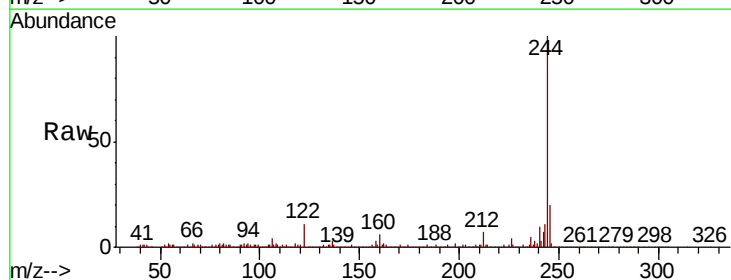


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

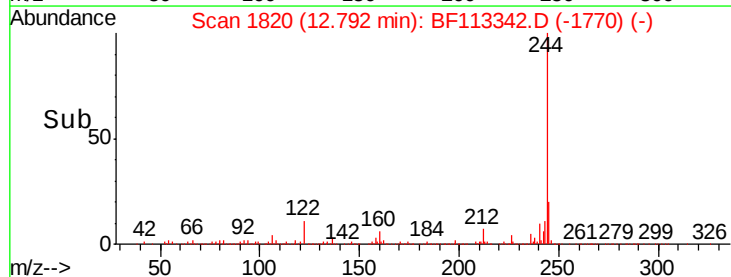
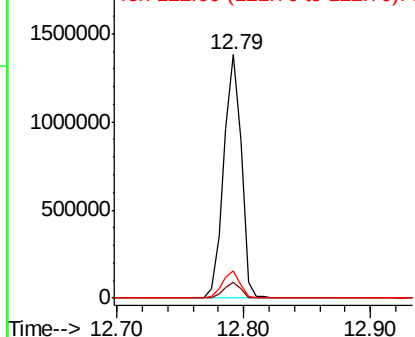


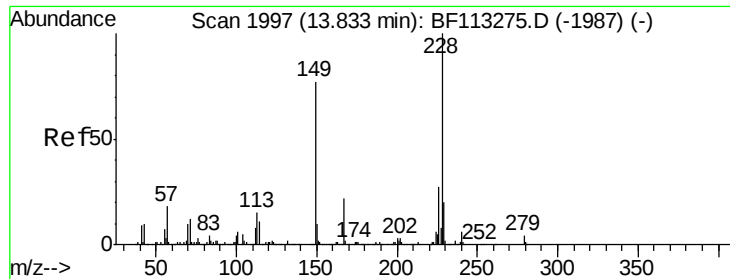
#79  
Terphenyl-d14  
Concen: 77.667 ng  
RT: 12.79 min Scan# 1820  
Delta R.T. -0.01 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Tgt Ion:244 Resp: 1328452  
Ion Ratio Lower Upper  
244 100  
212 6.6 5.5 8.3  
122 11.4 8.6 13.0



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

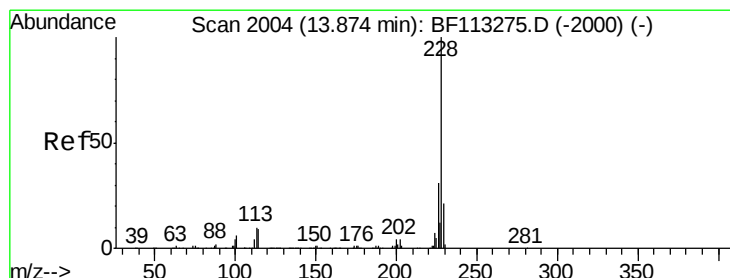
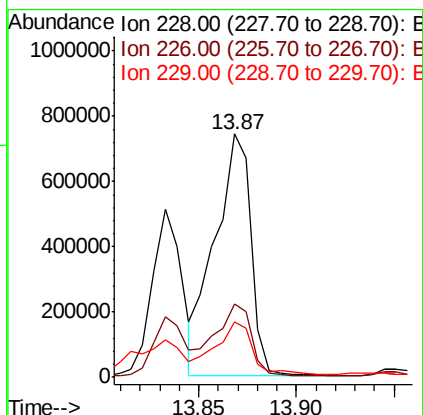
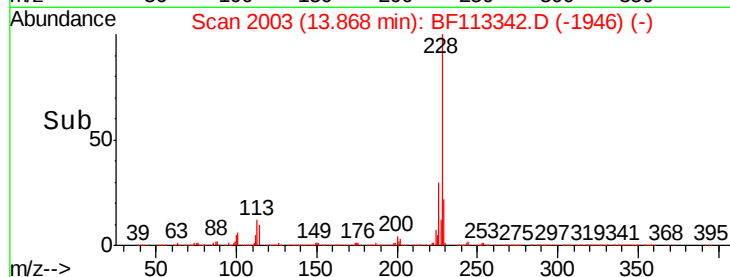
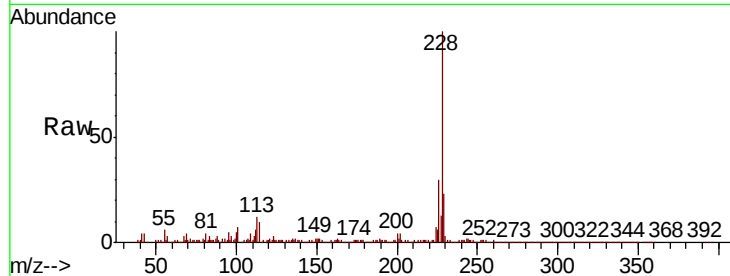




#81  
Benzo(a)anthracene  
Concen: 44.370 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. 0.04 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

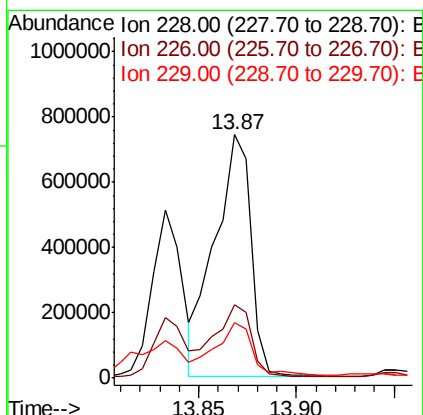
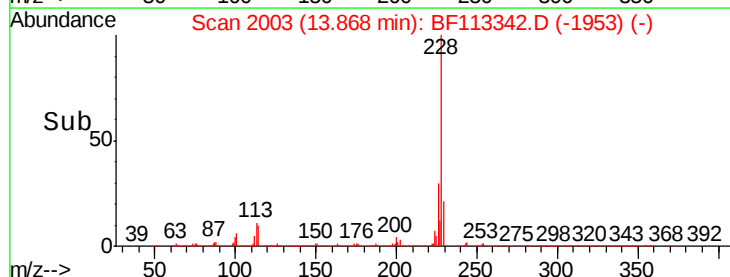
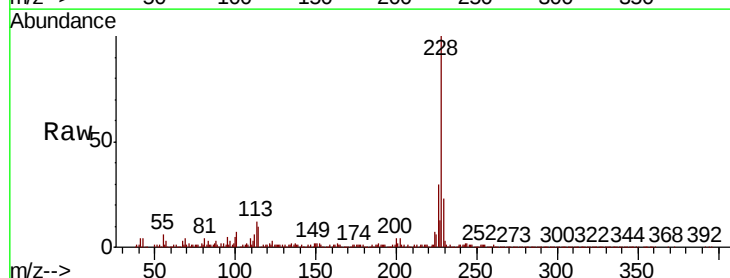
Instrument :  
BNA\_F  
ClientSampleId :  
CS-20

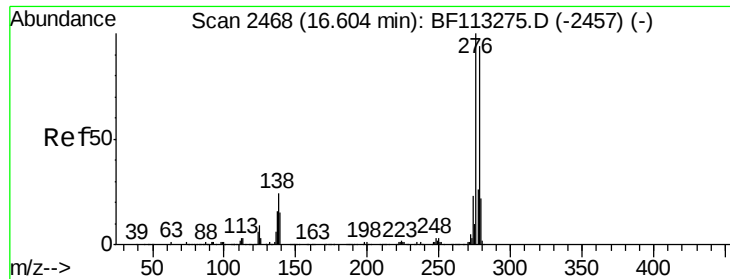
Tgt Ion:228 Resp: 957541  
Ion Ratio Lower Upper  
228 100  
226 30.2 21.8 32.8  
229 22.7 16.2 24.4



#83  
Chrysene  
Concen: 43.683 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.01 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Tgt Ion:228 Resp: 957541  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.3 36.5  
229 22.7 16.3 24.5

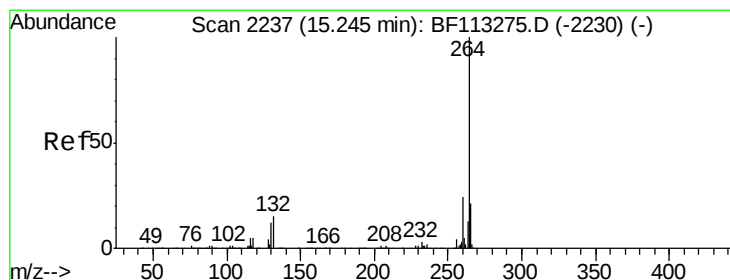
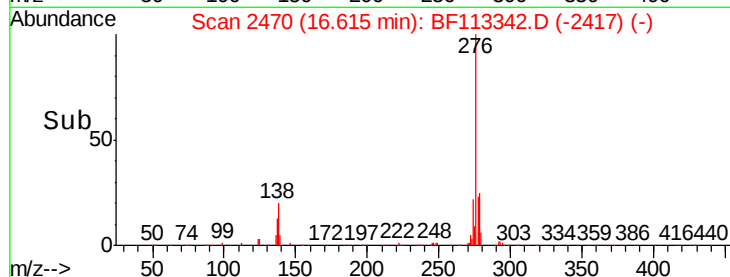
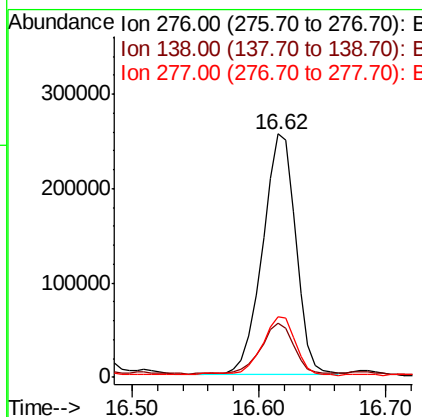
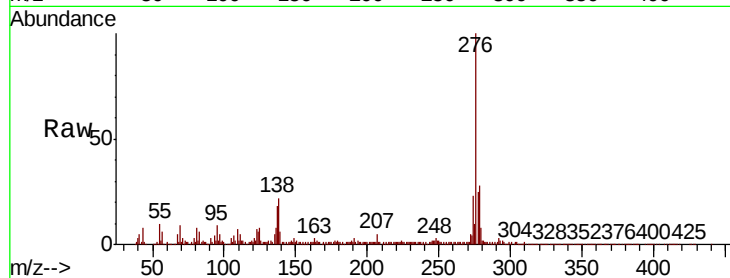




#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 24.752 ng  
 RT: 16.62 min Scan# 2470  
 Delta R.T. 0.01 min  
 Lab File: BF113342.D  
 Acq: 27 Mar 2019 20:35

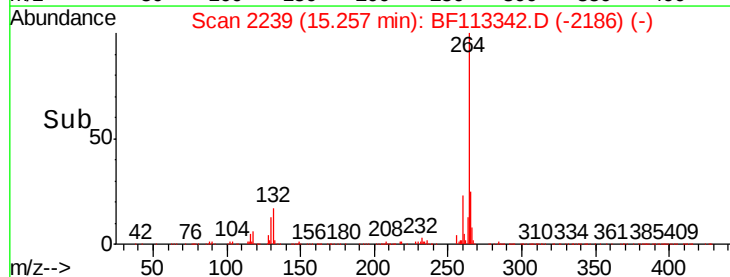
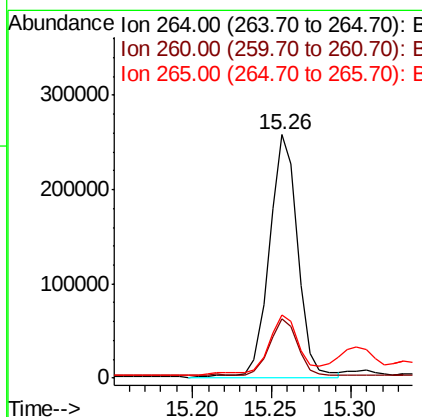
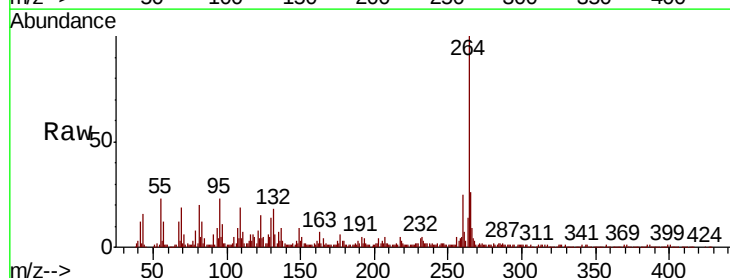
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-20

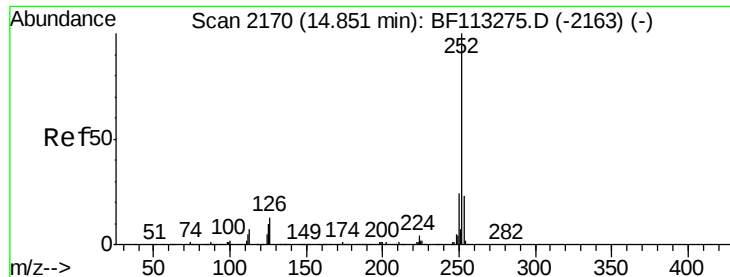
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.1  | 18.1  | 27.1  |
| 277     | 24.0  | 20.2  | 30.4  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.26 min Scan# 2239  
 Delta R.T. 0.01 min  
 Lab File: BF113342.D  
 Acq: 27 Mar 2019 20:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.1  | 28.7  |
| 265     | 26.1  | 17.1  | 25.7# |

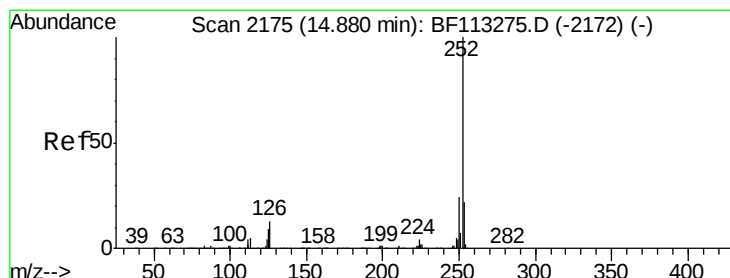
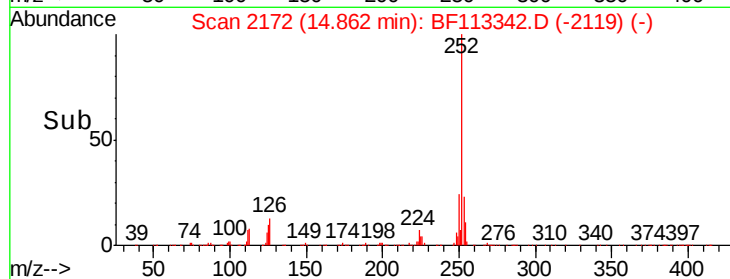
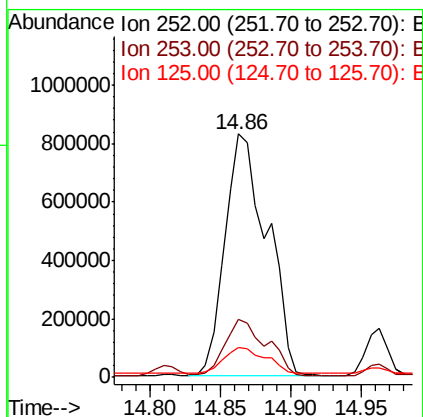
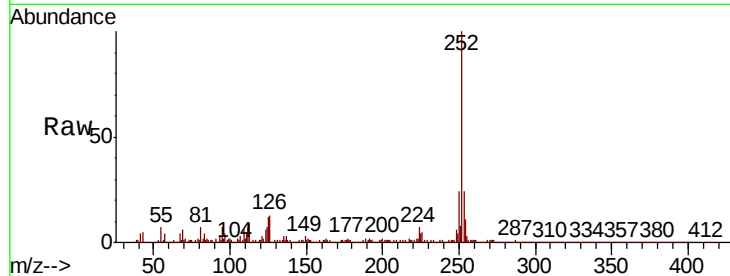




#88  
Benzo(b)fluoranthene  
Concen: 87.114 ng  
RT: 14.86 min Scan# 2172  
Delta R.T. 0.01 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

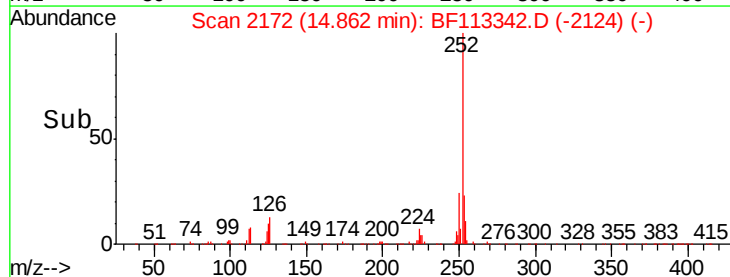
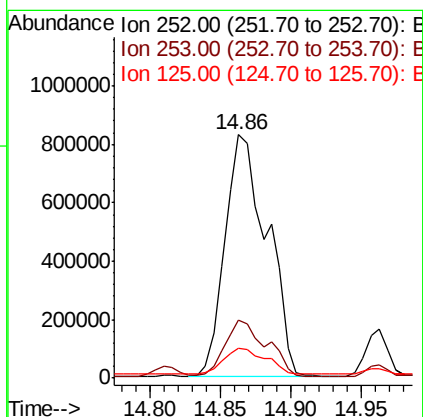
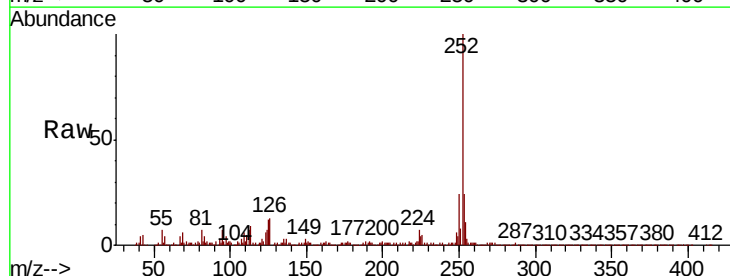
Instrument :  
BNA\_F  
ClientSampleId :  
CS-20

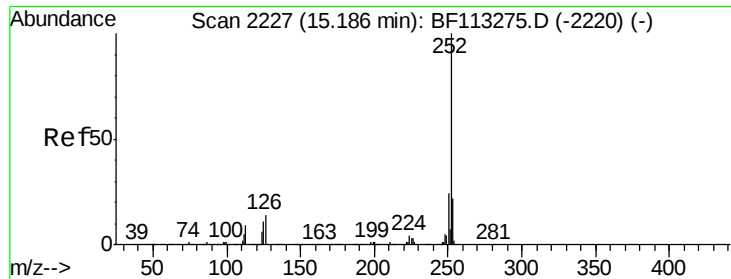
Tgt Ion:252 Resp: 1735627  
Ion Ratio Lower Upper  
252 100  
253 23.6 18.0 27.0  
125 12.2 7.6 11.4#



#89  
Benzo(k)fluoranthene  
Concen: 99.198 ng  
RT: 14.86 min Scan# 2172  
Delta R.T. -0.02 min  
Lab File: BF113342.D  
Acq: 27 Mar 2019 20:35

Tgt Ion:252 Resp: 1735627  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.7 26.5  
125 12.2 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 26.754 ng

RT: 15.20 min Scan# 2230

Delta R.T. 0.02 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampleId :

CS-20

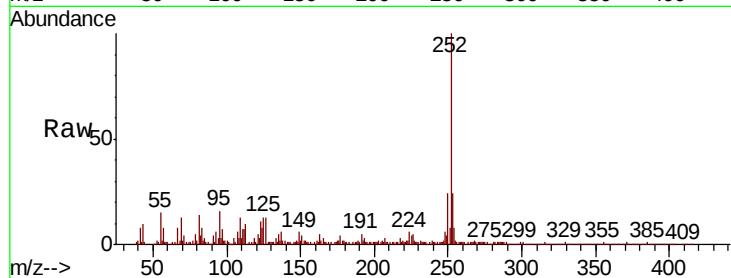
Tgt Ion:252 Resp: 472560

Ion Ratio Lower Upper

252 100

253 23.9 17.9 26.9

125 13.0 8.8 13.2

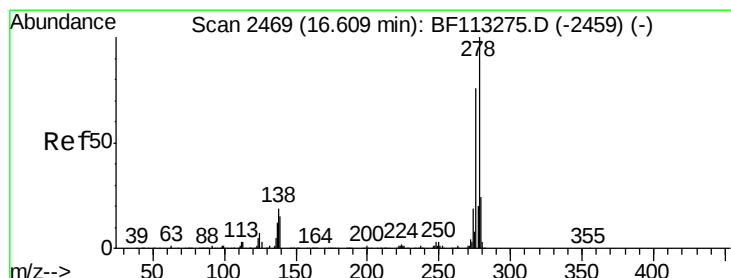
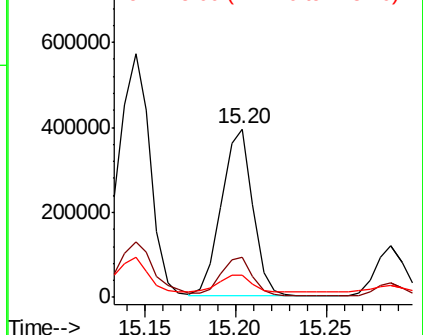
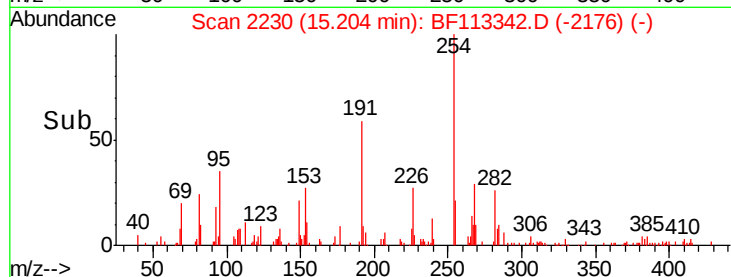


Abundance

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



#91

Dibenzo(a,h)anthracene

Concen: 3.512 ng

RT: 16.49 min Scan# 2448

Delta R.T. -0.12 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

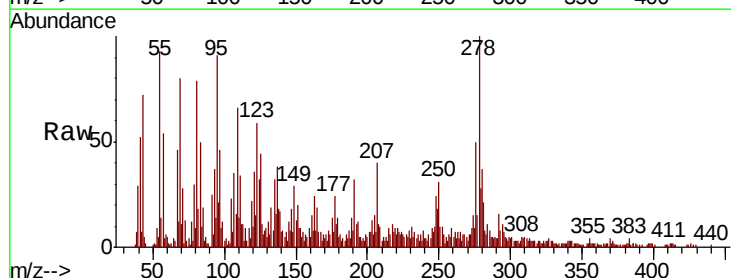
Tgt Ion:278 Resp: 53634

Ion Ratio Lower Upper

278 100

139 17.1 12.0 18.0

279 27.9 19.0 28.6

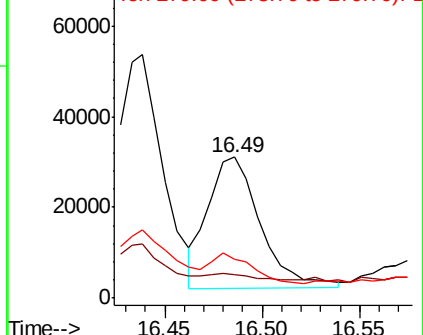
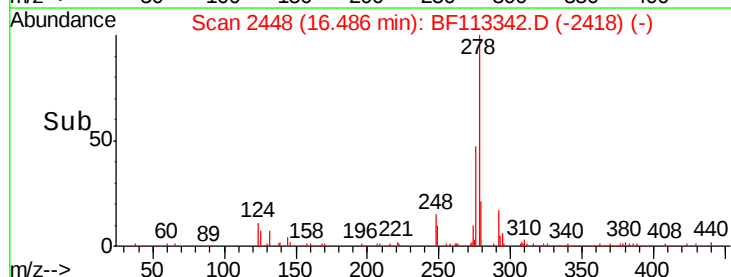


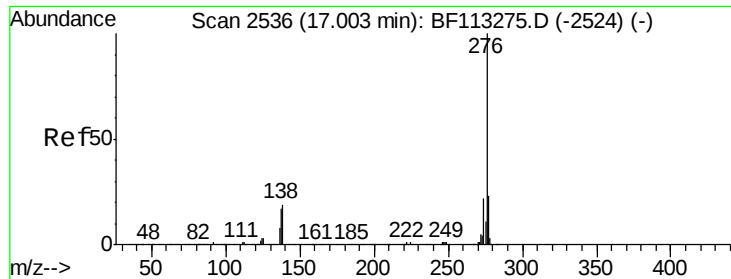
Abundance

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





#92

Benzo(g,h,i)perylene

Concen: 27.930 ng

RT: 17.02 min Scan# 2539

Delta R.T. 0.02 min

Lab File: BF113342.D

Acq: 27 Mar 2019 20:35

Instrument :

BNA\_F

ClientSampleId :

CS-20

Tgt Ion: 276 Resp: 430094

Ion Ratio Lower Upper

276 100

277 23.0 18.8 28.2

138 20.7 15.6 23.4

