

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF073119\  
 Data File : BF115887.D  
 Acq On : 1 Aug 2019 00:45  
 Operator : HP/JU  
 Sample : K4049-04 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-4

Quant Time: Aug 01 05:00:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 15:31:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 132856   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 484799   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.89  | 164  | 228354   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 357926   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.06 | 240  | 199205   | 20.00 | ng    | 0.04     |
| 87) Perylene-d12          | 15.53 | 264  | 281198   | 20.00 | ng    | 0.04     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.47  | 112 | 388070 | 48.90 | ng | 0.00 |
| 7) Phenol-d6                | 6.48  | 99  | 513576 | 51.29 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.41  | 82  | 284058 | 33.82 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330 | 89000  | 40.20 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 9.21  | 172 | 478854 | 39.28 | ng | 0.00 |
| 79) Terphenyl-d14           | 12.97 | 244 | 444989 | 47.07 | ng | 0.00 |

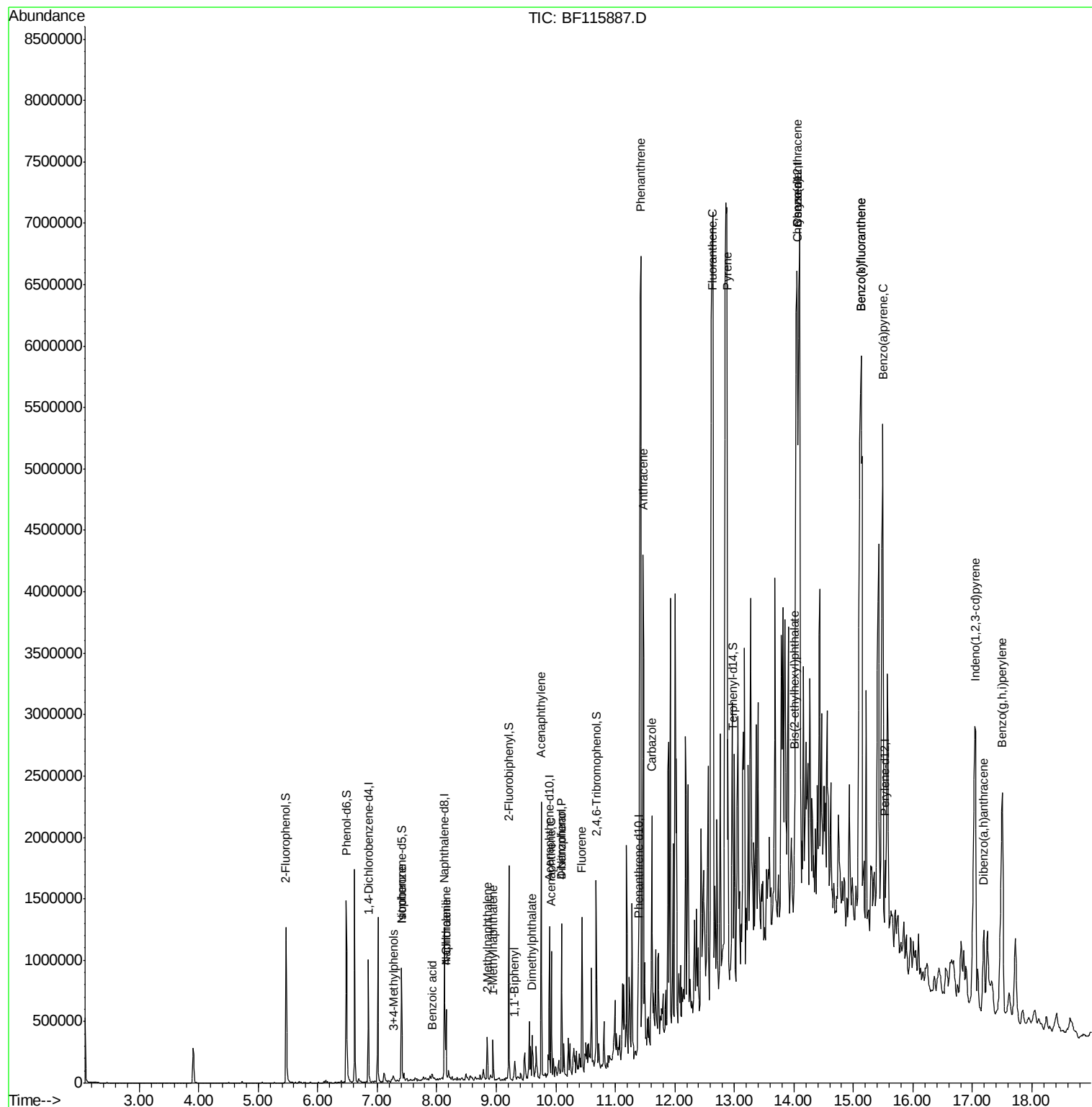
|                                |       |     |         |         |    |      |
|--------------------------------|-------|-----|---------|---------|----|------|
| Target Compounds               |       |     |         | Qvalue  |    |      |
| 20) 3+4-Methylphenols          | 7.27  | 107 | 20546   | 2.336   | ng | # 69 |
| 25) Isophorone                 | 7.41  | 82  | 280665  | 17.476  | ng | # 66 |
| 31) Naphthalene                | 8.16  | 128 | 244317  | 10.709  | ng | 99   |
| 32) Benzoic acid               | 7.92  | 122 | 10649   | 2.349   | ng | # 20 |
| 33) 4-Chloroaniline            | 8.16  | 127 | 31701   | 3.110   | ng | # 34 |
| 37) 2-Methylnaphthalene        | 8.85  | 142 | 92254   | 6.140   | ng | 99   |
| 38) 1-Methylnaphthalene        | 8.95  | 142 | 91214   | 6.417   | ng | 100  |
| 46) 1,1'-Biphenyl              | 9.31  | 154 | 47191   | 2.927   | ng | 94   |
| 49) Acenaphthylene             | 9.76  | 152 | 886569  | 45.289  | ng | 99   |
| 50) Dimethylphthalate          | 9.60  | 163 | 112944  | 7.264   | ng | 99   |
| 52) Acenaphthene               | 9.93  | 154 | 198230  | 16.506  | ng | 99   |
| 55) Dibenzofuran               | 10.10 | 168 | 361297  | 20.687  | ng | 97   |
| 56) 4-Nitrophenol              | 10.10 | 139 | 141382  | 52.862  | ng | # 10 |
| 58) Fluorene                   | 10.45 | 166 | 338362  | 25.181  | ng | 99   |
| 71) Phenanthrene               | 11.43 | 178 | 4382139 | 239.488 | ng | 97   |
| 72) Anthracene                 | 11.47 | 178 | 1655392 | 89.392  | ng | 98   |
| 73) Carbazole                  | 11.62 | 167 | 685123  | 40.779  | ng | 99   |
| 75) Fluoranthene               | 12.64 | 202 | 7286966 | 380.399 | ng | 96   |
| 78) Pyrene                     | 12.87 | 202 | 6468640 | 430.773 | ng | 96   |
| 81) Benzo(a)anthracene         | 14.05 | 228 | 4477277 | 351.642 | ng | 93   |
| 83) Chrysene                   | 14.05 | 228 | 4477277 | 362.203 | ng | 96   |
| 84) Bis(2-ethylhexyl)phthalate | 14.01 | 149 | 103263  | 12.510  | ng | 100  |
| 86) Indeno(1,2,3-cd)pyrene     | 17.05 | 276 | 2201672 | 212.063 | ng | 98   |
| 88) Benzo(b)fluoranthene       | 15.12 | 252 | 6123277 | 376.604 | ng | 94   |
| 89) Benzo(k)fluoranthene       | 15.12 | 252 | 6123277 | 386.652 | ng | 98   |
| 90) Benzo(a)pyrene             | 15.49 | 252 | 3298771 | 226.962 | ng | 95   |
| 91) Dibenzo(a,h)anthracene     | 17.19 | 278 | 513812  | 40.840  | ng | 96   |
| 92) Benzo(g,h,i)perylene       | 17.50 | 276 | 2031970 | 164.454 | ng | 99   |

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

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Sample : K4049-04 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SP-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 31 15:31:51 2019  
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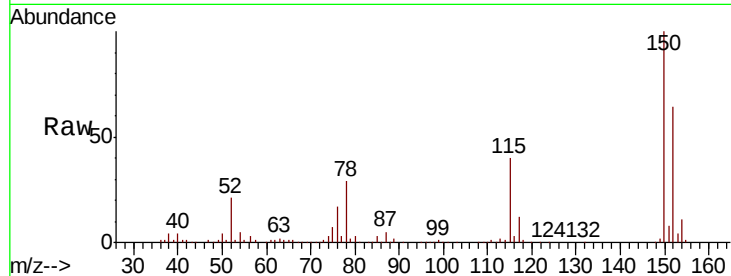


#1

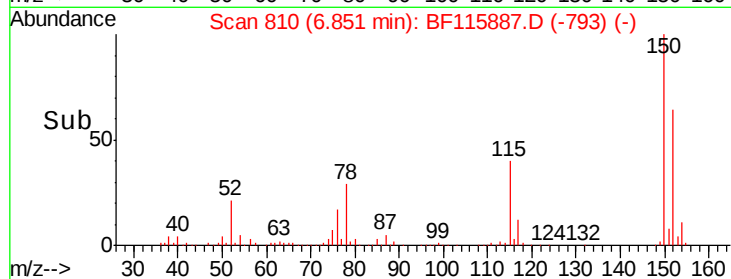
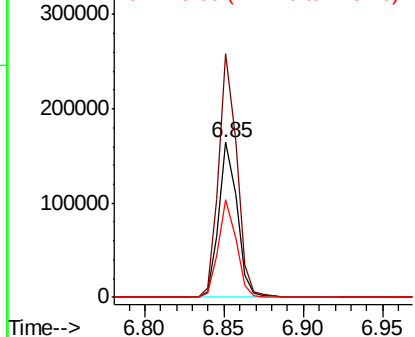
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. 0.00 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

Tgt Ion:152 Resp: 132856  
Ion Ratio Lower Upper  
152 100  
150 156.8 127.4 191.0  
115 62.7 51.8 77.8



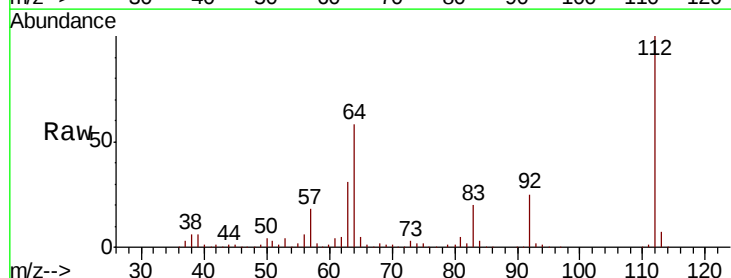
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



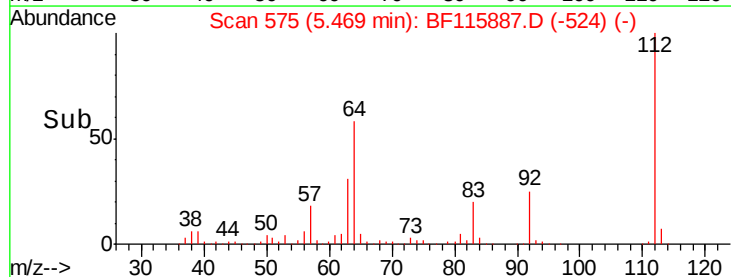
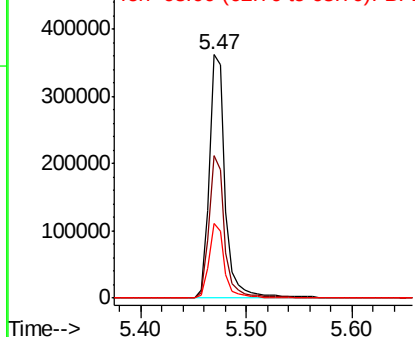
#5

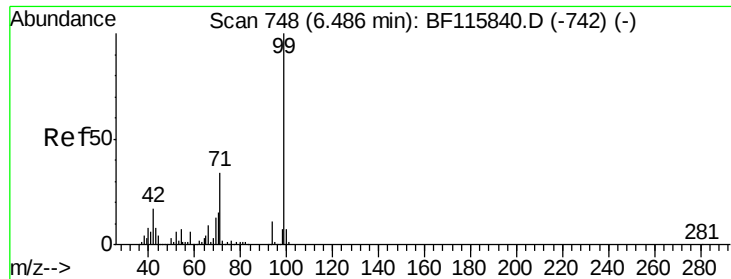
2-Fluorophenol  
Concen: 48.899 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.00 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Tgt Ion:112 Resp: 388070  
Ion Ratio Lower Upper  
112 100  
64 58.3 46.8 70.2  
63 30.7 24.2 36.2



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: 51.292 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

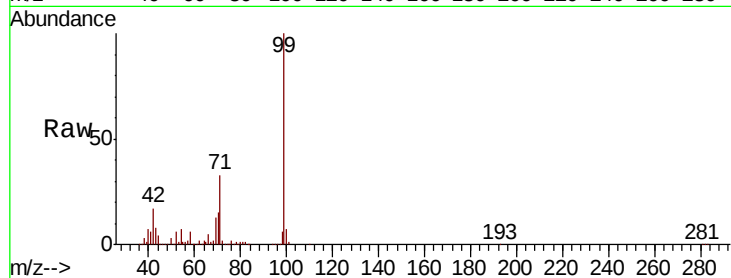
Tgt Ion: 99 Resp: 513576

Ion Ratio Lower Upper

99 100

42 17.4 13.8 20.6

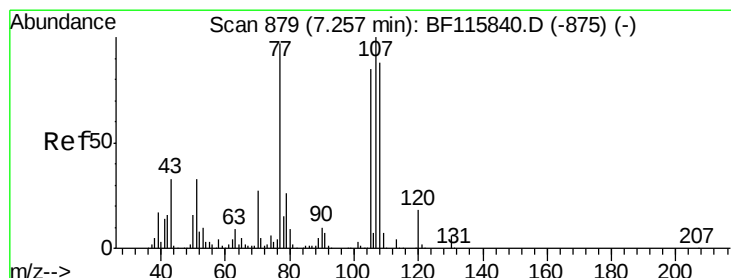
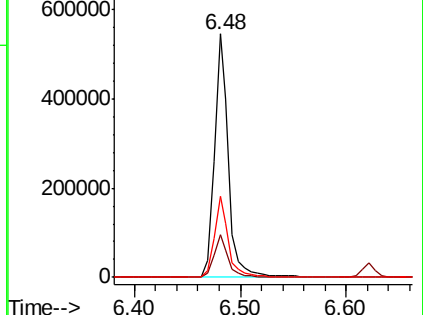
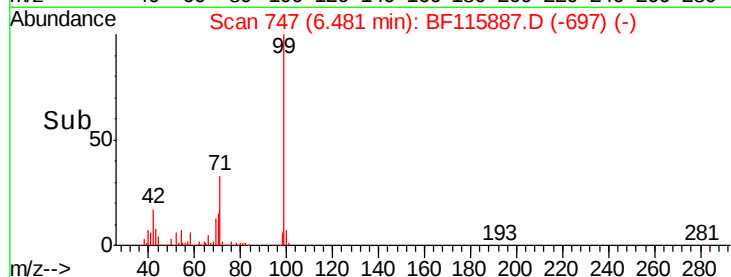
71 33.4 27.1 40.7



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



#20

3+4-Methylphenols

Concen: 2.336 ng

RT: 7.27 min Scan# 881

Delta R.T. 0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Tgt Ion: 107 Resp: 20546

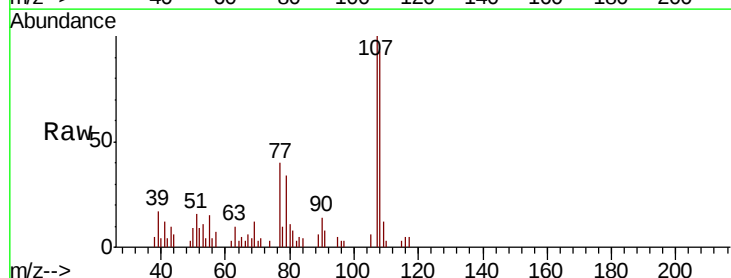
Ion Ratio Lower Upper

107 100

108 92.9 67.9 107.9

77 39.8 77.3 117.3#

79 33.8 6.6 46.6

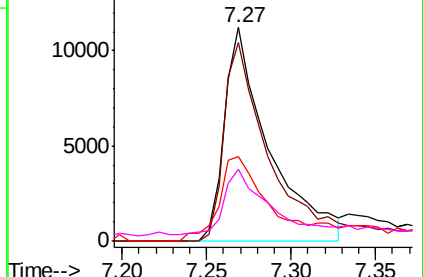
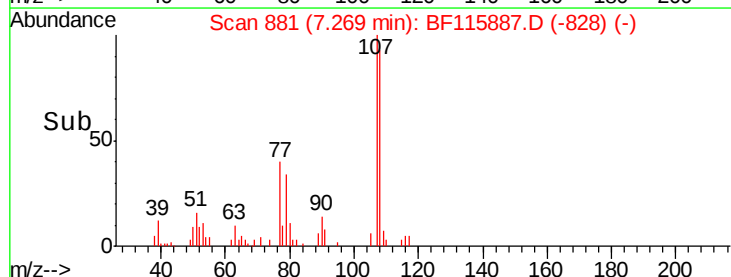


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1

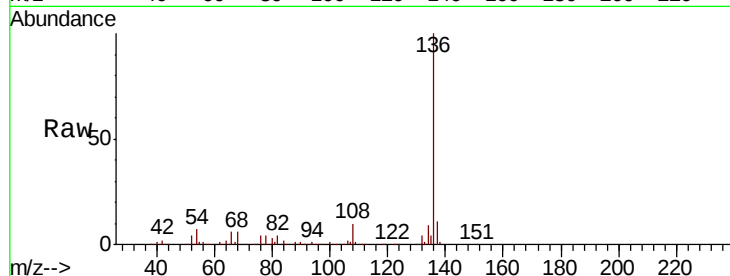




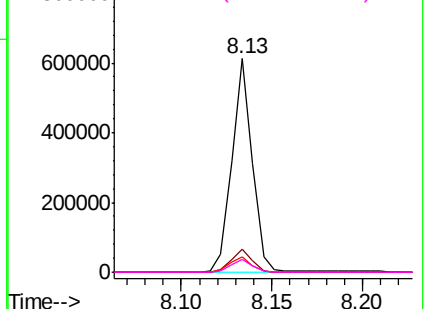
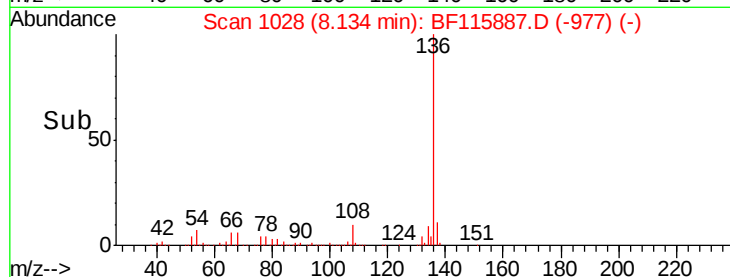
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. 0.00 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 484799 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.1   | 13.7   |
| 54       | 7.1   | 6.1   | 9.1    |
| 68       | 6.2   | 5.4   | 8.2    |

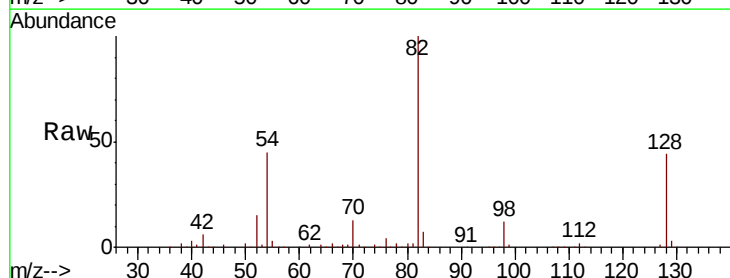


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

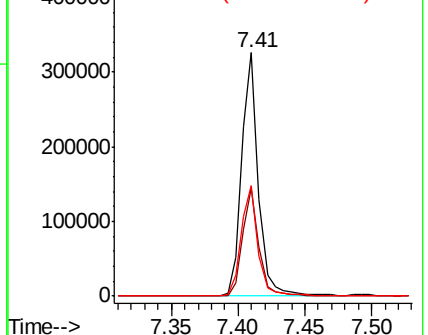
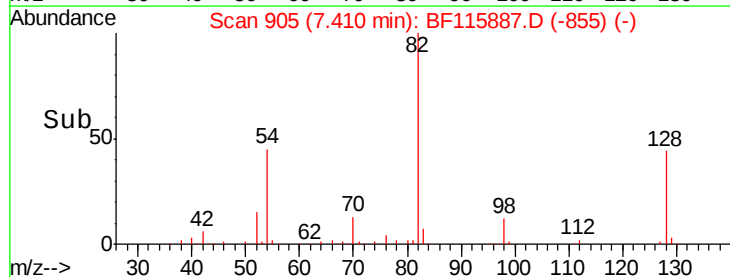


#23  
Nitrobenzene-d5  
Concen: 33.822 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 284058 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.4  | 36.6  | 55.0   |
| 54       | 45.4  | 36.6  | 55.0   |



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: 17.476 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

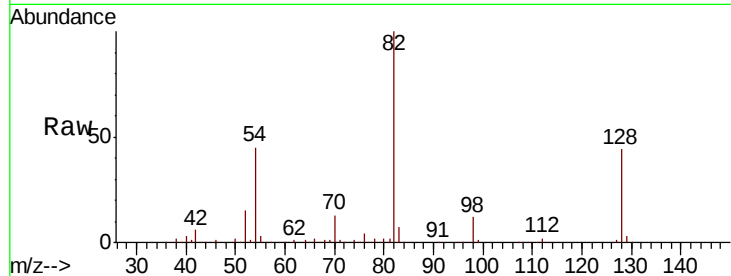
Tgt Ion: 82 Resp: 280665

Ion Ratio Lower Upper

82 100

95 0.2 5.5 8.3#

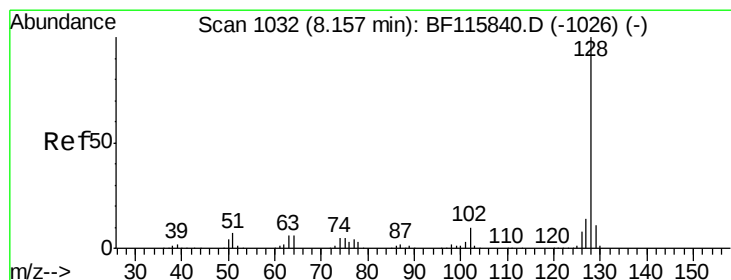
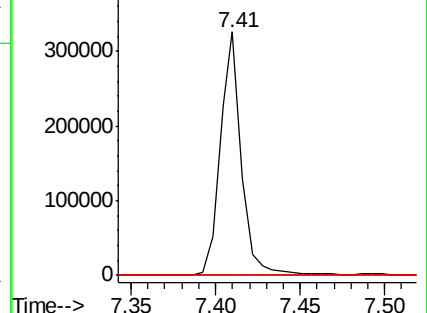
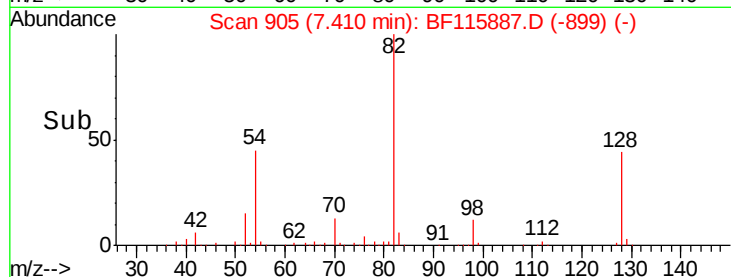
138 0.0 13.9 20.9#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 10.709 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

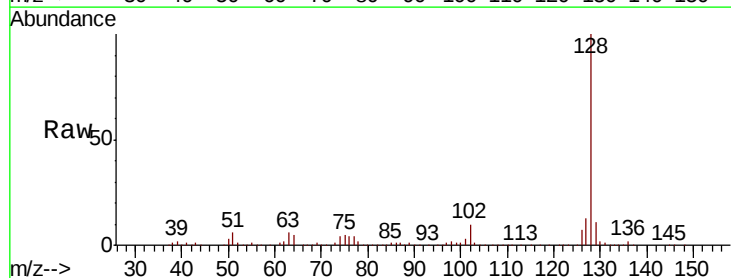
Tgt Ion: 128 Resp: 244317

Ion Ratio Lower Upper

128 100

129 10.9 9.2 13.8

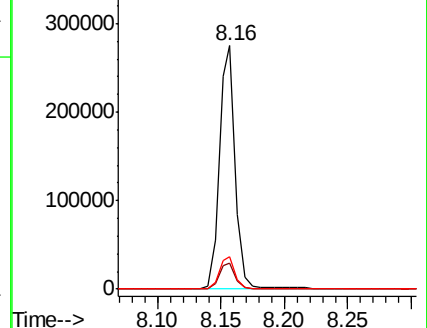
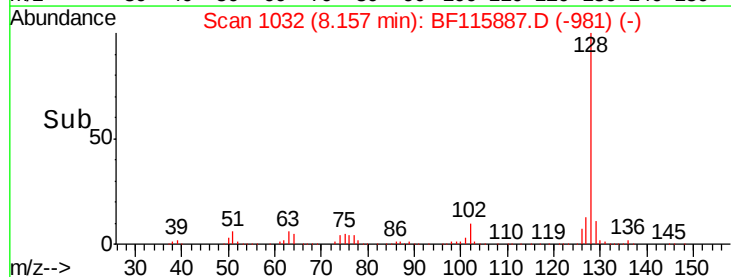
127 13.1 11.0 16.4

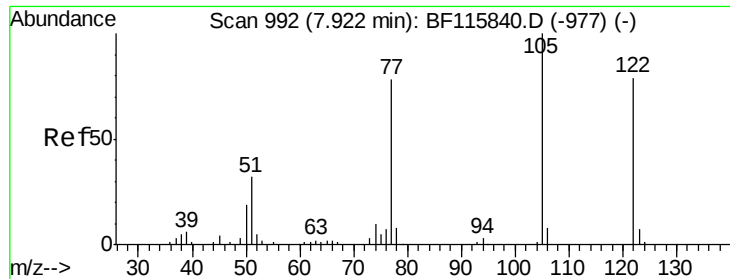


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 2.349 ng

RT: 7.92 min Scan# 992

Delta R.T. 0.00 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

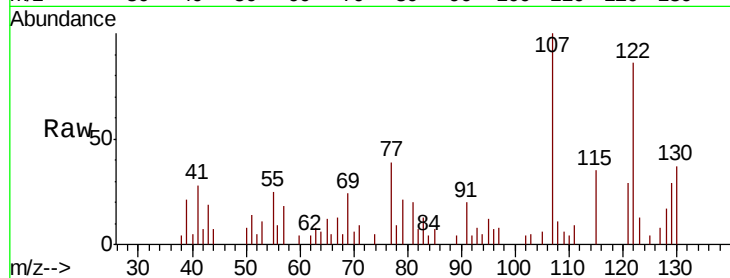
Tgt Ion:122 Resp: 10649

Ion Ratio Lower Upper

122 100

105 7.1 103.1 143.1#

77 45.8 76.8 116.8#

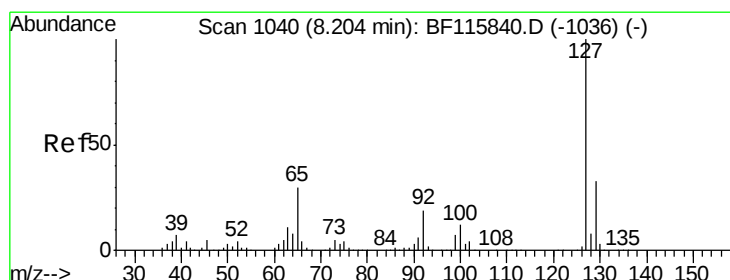
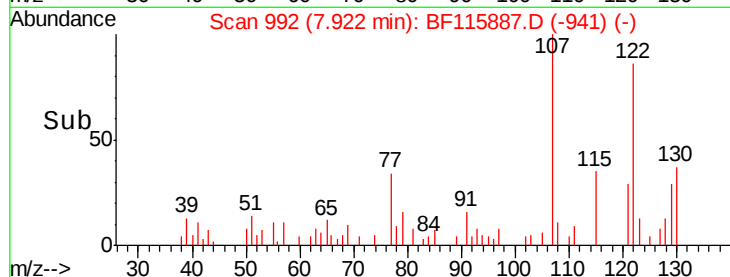
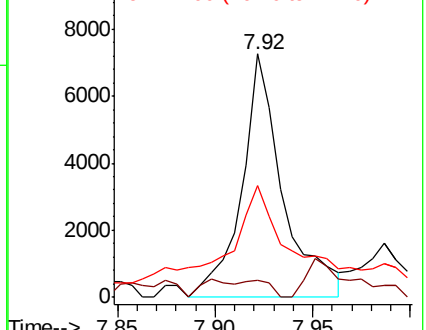


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#33

4-Chloroaniline

Concen: 3.110 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.05 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Tgt Ion:127 Resp: 31701

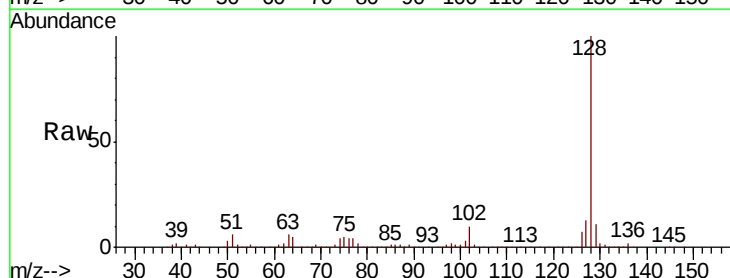
Ion Ratio Lower Upper

127 100

129 83.3 26.0 39.0#

65 0.0 23.9 35.9#

92 0.0 14.9 22.3#



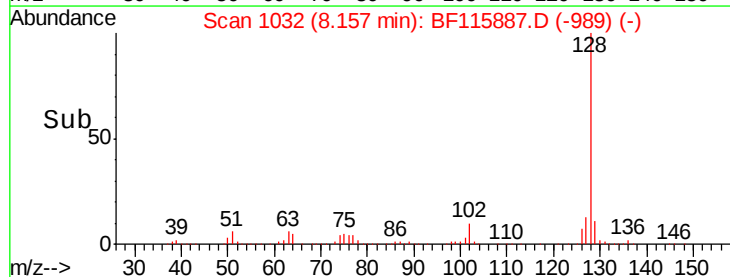
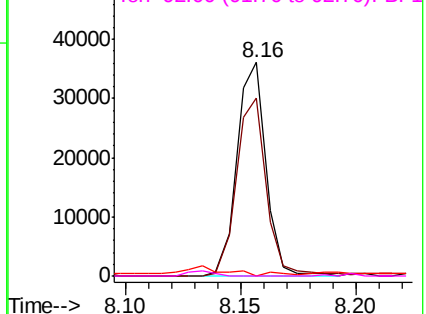
Abundance

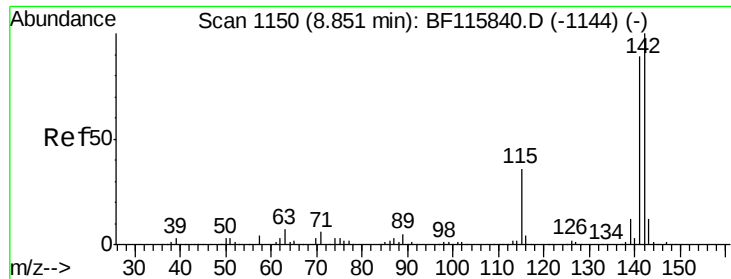
Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

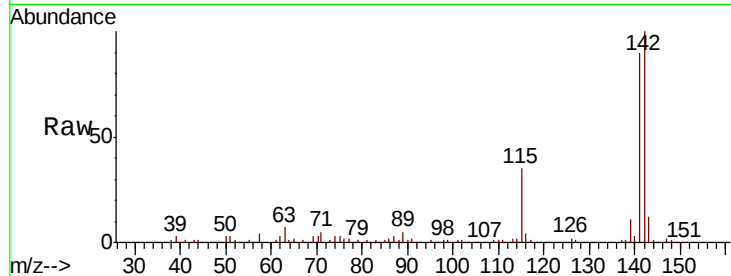




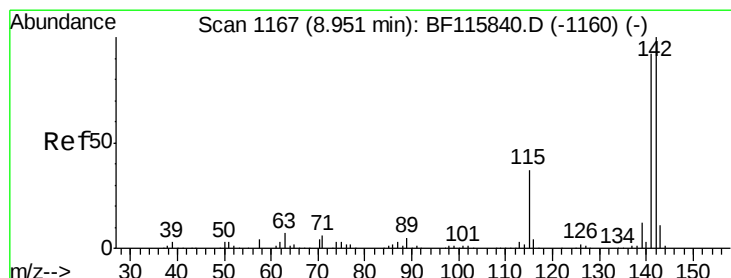
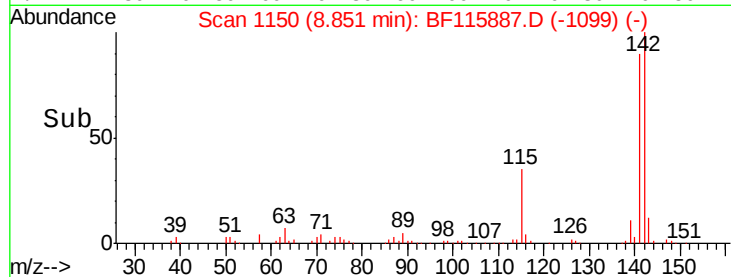
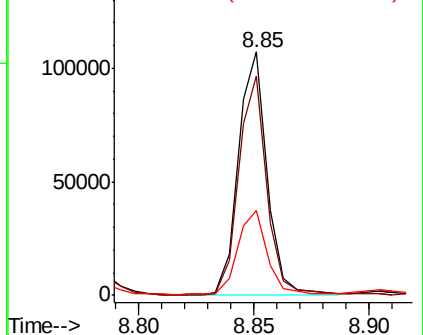
#37  
2-Methylnaphthalene  
Concen: 6.140 ng  
RT: 8.85 min Scan# 1150  
Delta R.T. 0.00 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

Tgt Ion:142 Resp: 92254  
Ion Ratio Lower Upper  
142 100  
141 90.0 71.4 107.2  
115 34.6 28.9 43.3

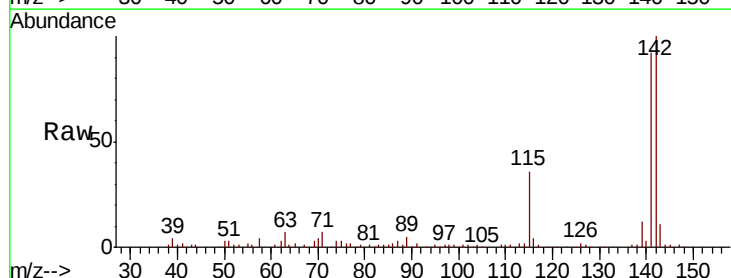


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

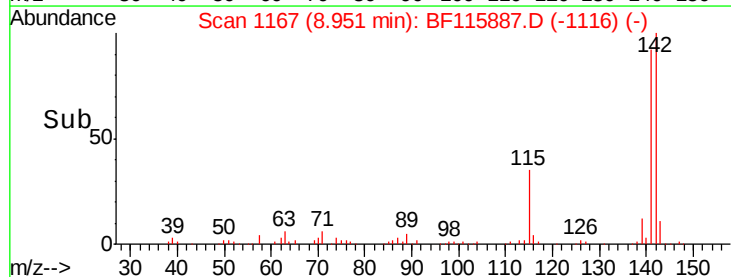
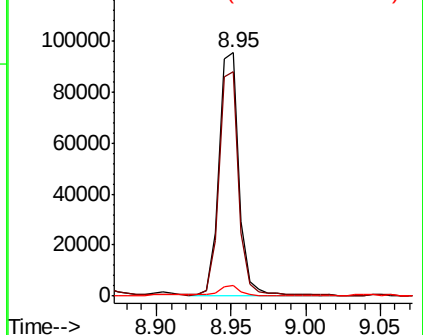


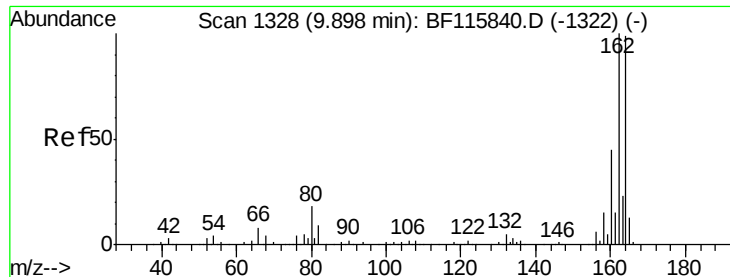
#38  
1-Methylnaphthalene  
Concen: 6.417 ng  
RT: 8.95 min Scan# 1167  
Delta R.T. 0.00 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Tgt Ion:142 Resp: 91214  
Ion Ratio Lower Upper  
142 100  
141 92.2 73.8 110.6  
116 4.3 3.1 4.7



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

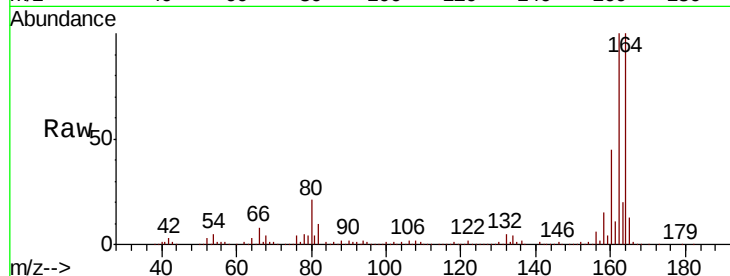




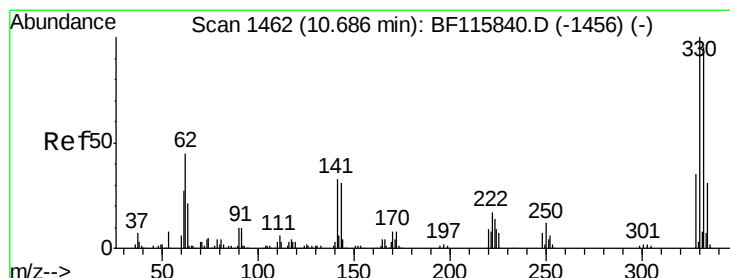
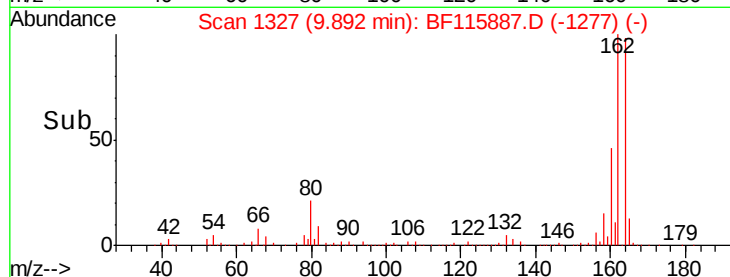
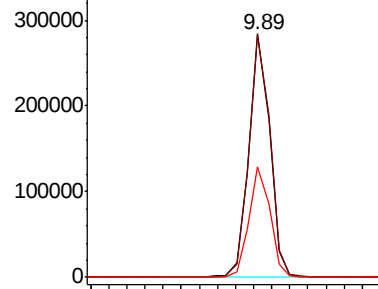
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. -0.01 min  
 Lab File: BF115887.D  
 Acq: 1 Aug 2019 00:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.6  | 80.8  | 121.2 |
| 160     | 45.3  | 36.2  | 54.4  |

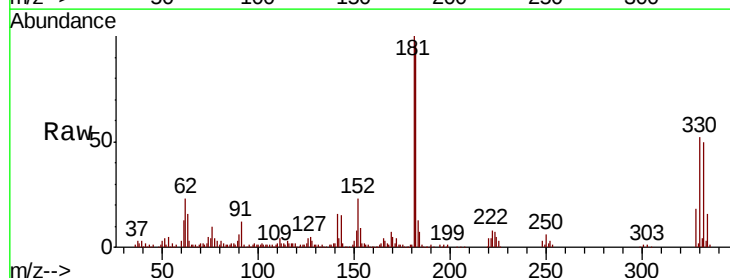


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

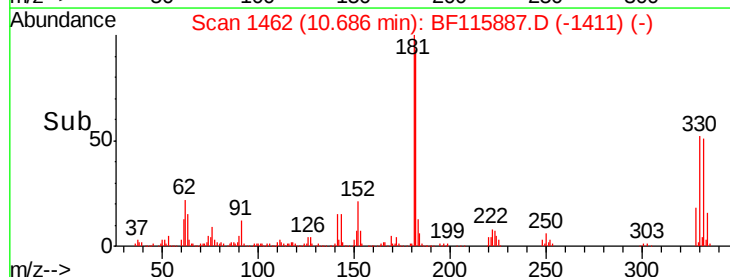
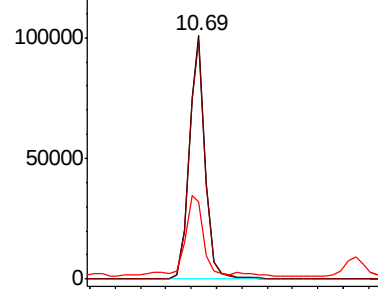


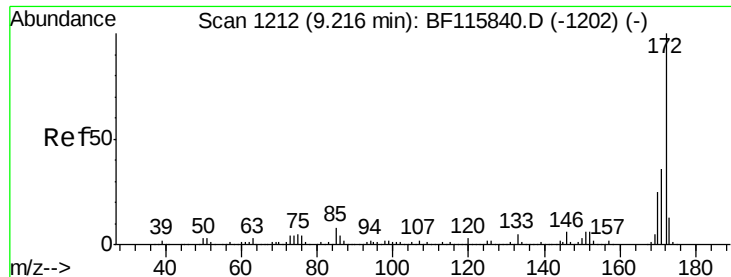
#42  
 2,4,6-Tribromophenol  
 Concen: 40.200 ng  
 RT: 10.69 min Scan# 1462  
 Delta R.T. 0.00 min  
 Lab File: BF115887.D  
 Acq: 1 Aug 2019 00:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.2  | 77.7  | 116.5 |
| 141     | 40.6  | 28.1  | 42.1  |



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

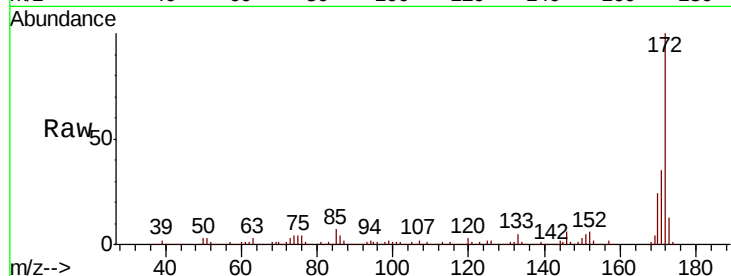




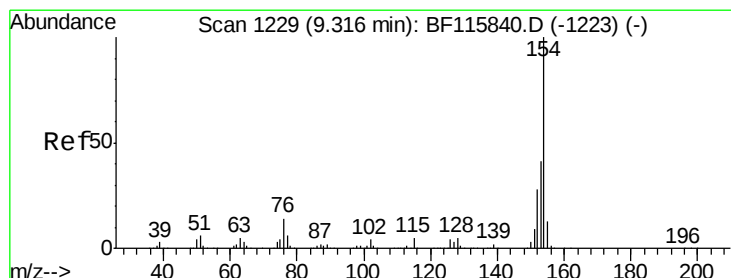
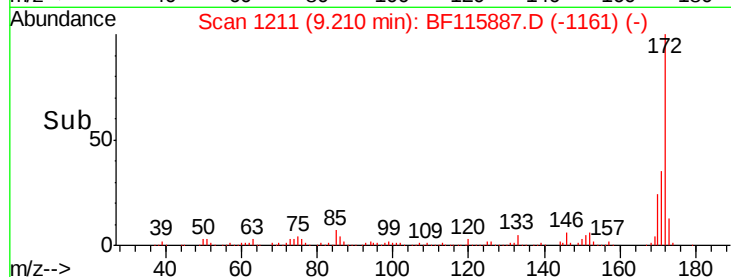
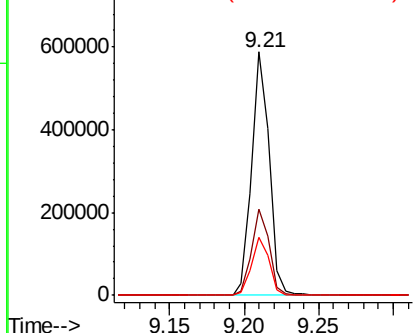
#45  
 2-Fluorobiphenyl  
 Concen: 39.278 ng  
 RT: 9.21 min Scan# 1211  
 Delta R.T. -0.01 min  
 Lab File: BF115887.D  
 Acq: 1 Aug 2019 00:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-4

Tgt Ion:172 Resp: 478854  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 29.1 43.7  
 170 23.8 20.1 30.1

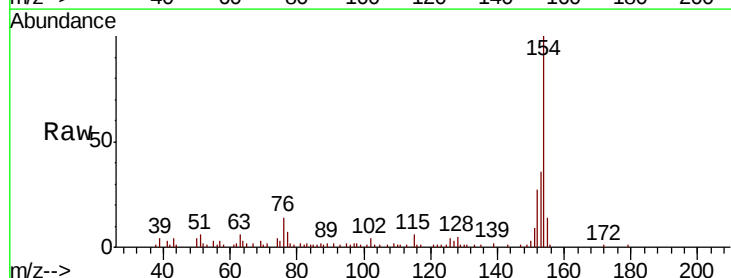


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

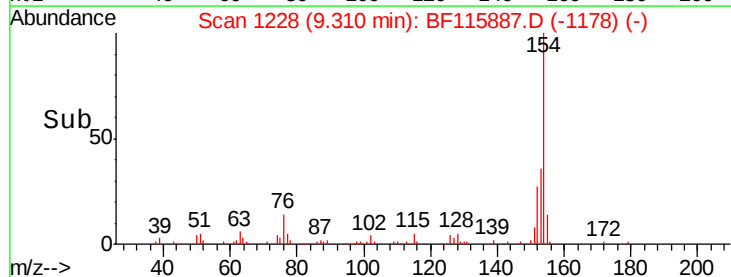
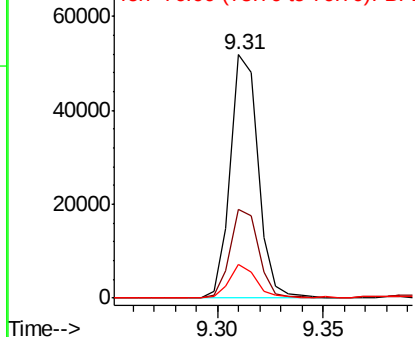


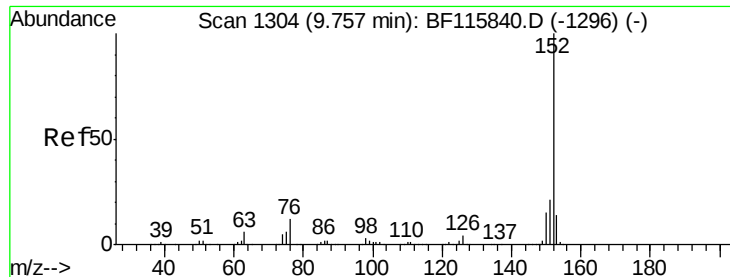
#46  
 1,1'-Biphenyl  
 Concen: 2.927 ng  
 RT: 9.31 min Scan# 1228  
 Delta R.T. -0.01 min  
 Lab File: BF115887.D  
 Acq: 1 Aug 2019 00:45

Tgt Ion:154 Resp: 47191  
 Ion Ratio Lower Upper  
 154 100  
 153 36.5 20.9 60.9  
 76 13.6 0.0 34.3



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: 45.289 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampled :

SP-4

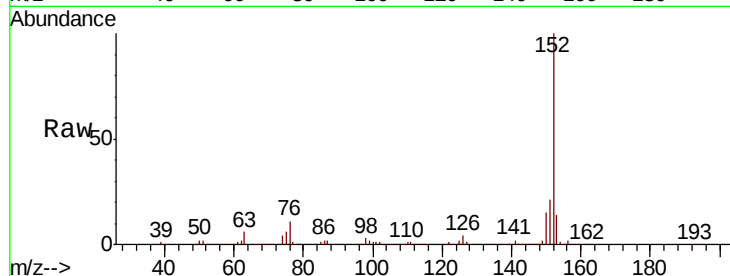
Tgt Ion:152 Resp: 886569

Ion Ratio Lower Upper

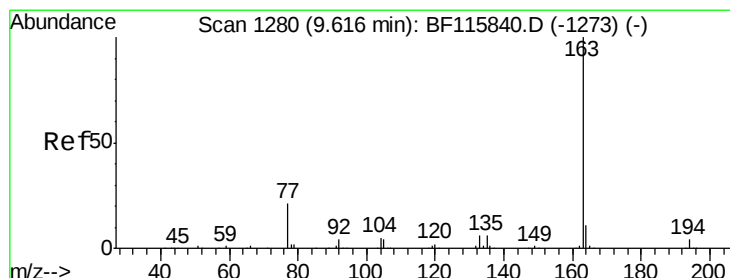
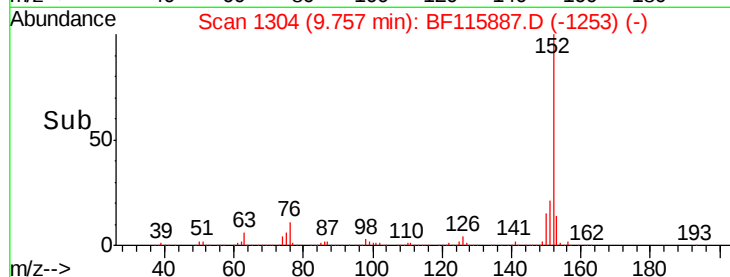
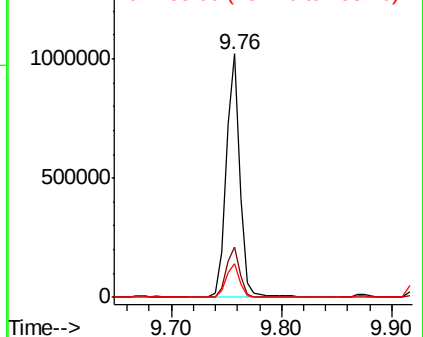
152 100

151 20.9 16.8 25.2

153 14.1 11.6 17.4



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: 7.264 ng

RT: 9.60 min Scan# 1278

Delta R.T. -0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

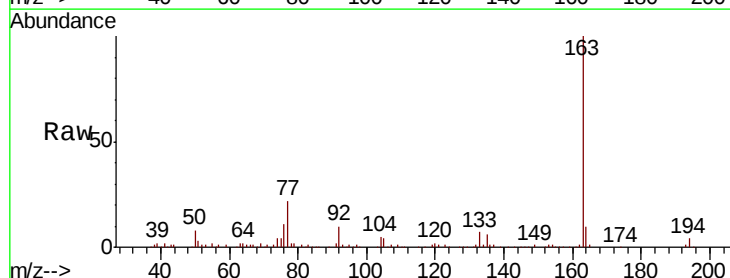
Tgt Ion:163 Resp: 112944

Ion Ratio Lower Upper

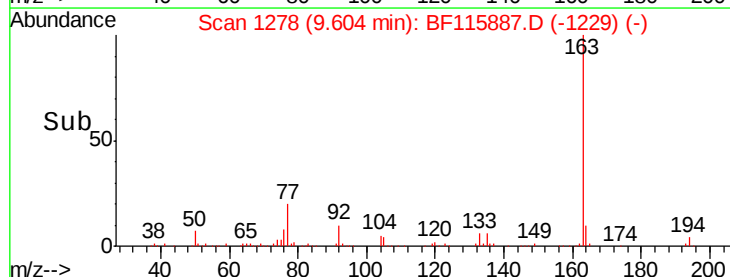
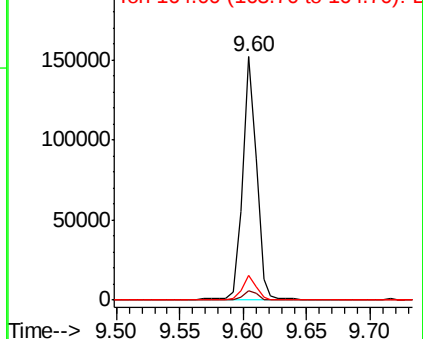
163 100

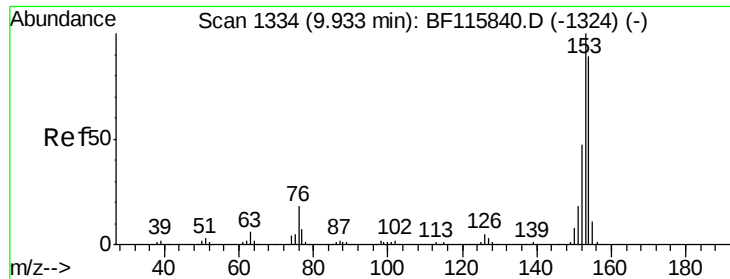
194 3.8 3.0 4.6

164 10.2 8.4 12.6



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





#52

Acenaphthene

Concen: 16.506 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

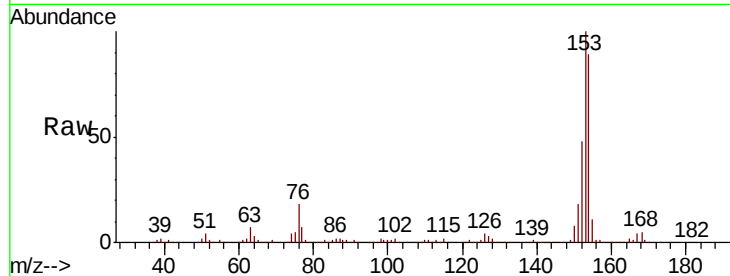
Tgt Ion:154 Resp: 198230

Ion Ratio Lower Upper

154 100

153 111.8 90.1 135.1

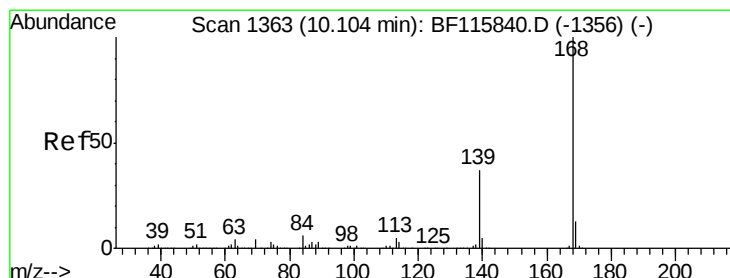
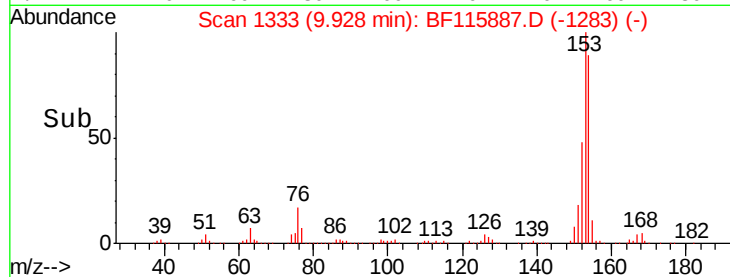
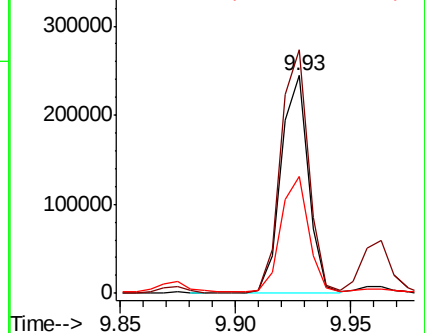
152 53.6 42.6 63.8



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



#55

Dibenzofuran

Concen: 20.687 ng

RT: 10.10 min Scan# 1362

Delta R.T. -0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

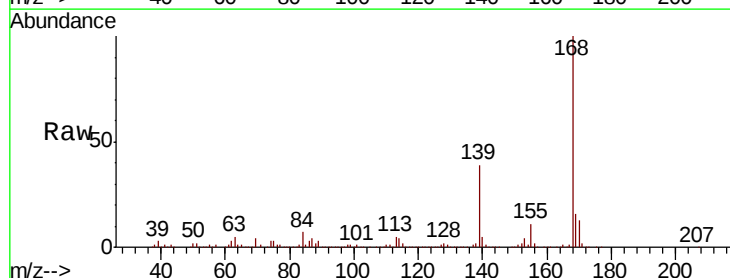
Tgt Ion:168 Resp: 361297

Ion Ratio Lower Upper

168 100

139 39.0 30.2 45.2

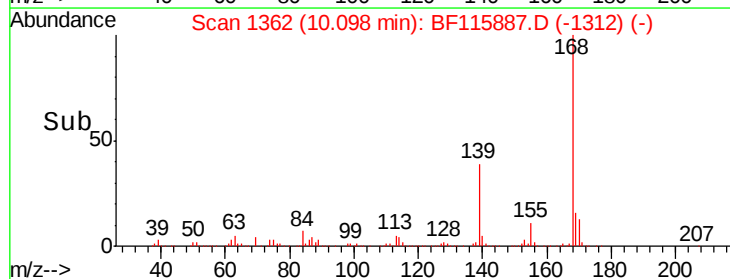
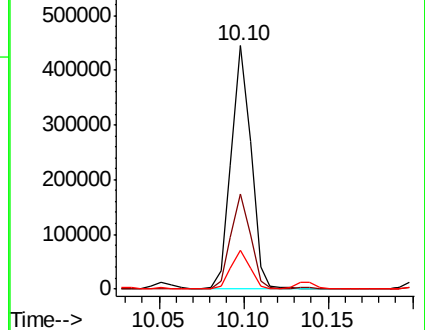
169 15.8 10.8 16.2

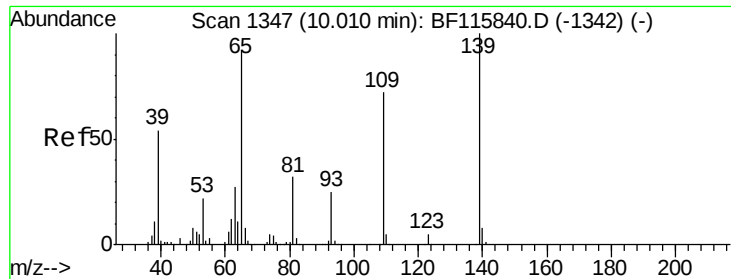


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

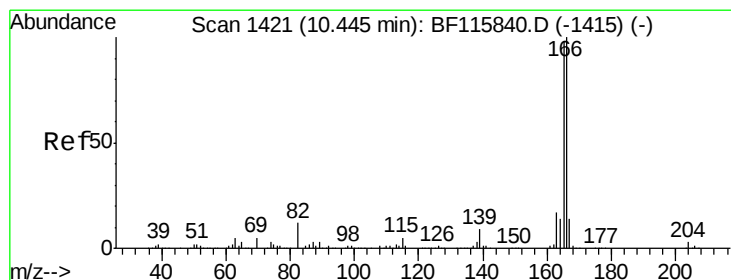
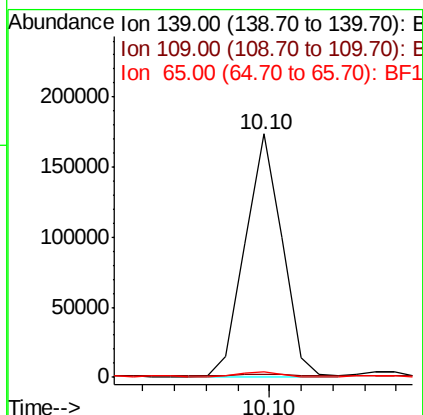
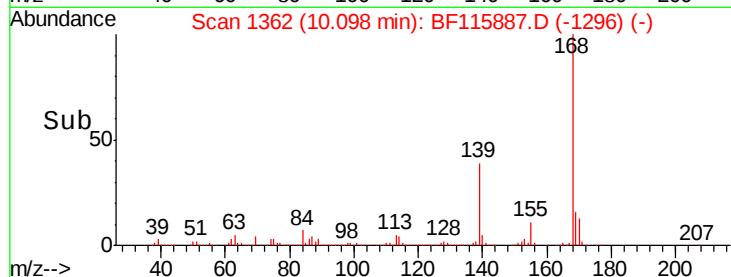
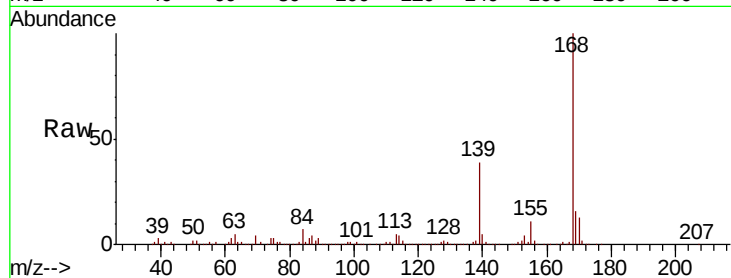




#56  
4-Nitrophenol  
Concen: 52.862 ng  
RT: 10.10 min Scan# 1362  
Delta R.T. 0.09 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

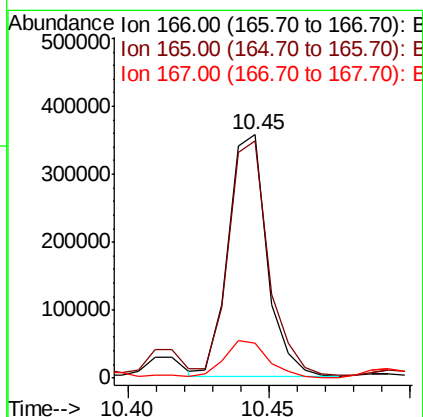
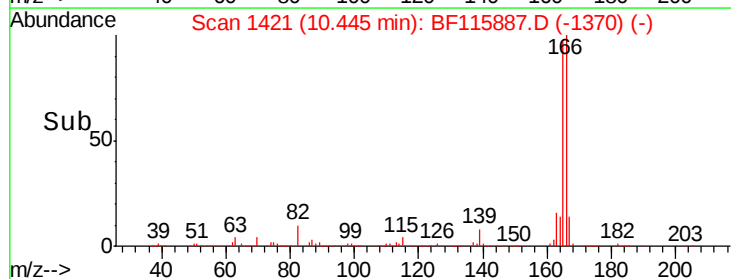
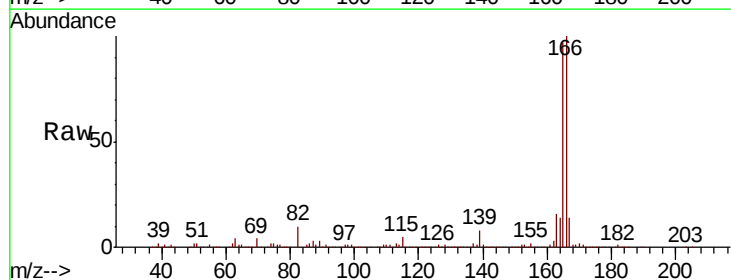
Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

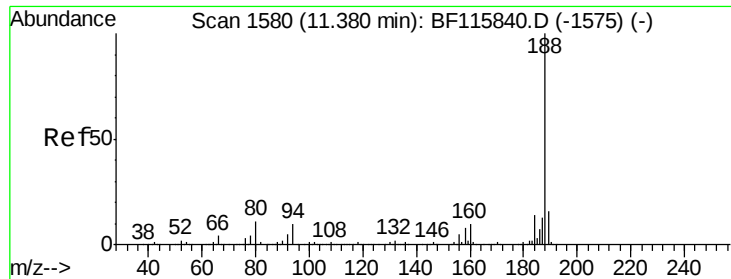
Tgt Ion:139 Resp: 141382  
Ion Ratio Lower Upper  
139 100  
109 1.2 52.0 92.0#  
65 2.1 72.6 112.6#



#58  
Fluorene  
Concen: 25.181 ng  
RT: 10.45 min Scan# 1421  
Delta R.T. 0.00 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Tgt Ion:166 Resp: 338362  
Ion Ratio Lower Upper  
166 100  
165 97.5 78.6 118.0  
167 14.3 10.9 16.3

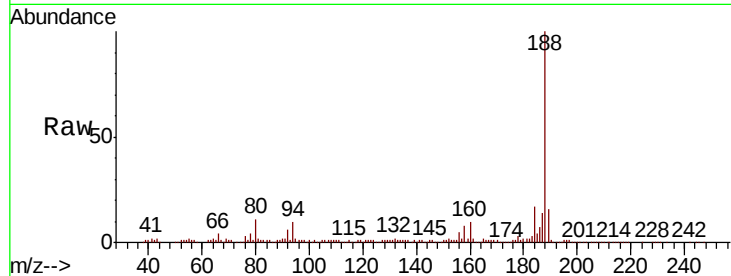




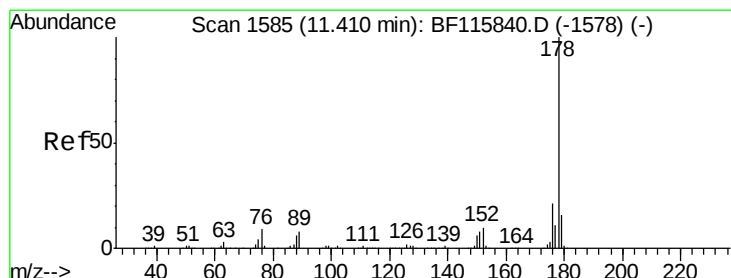
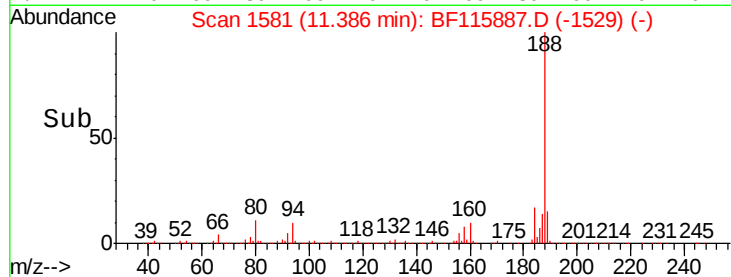
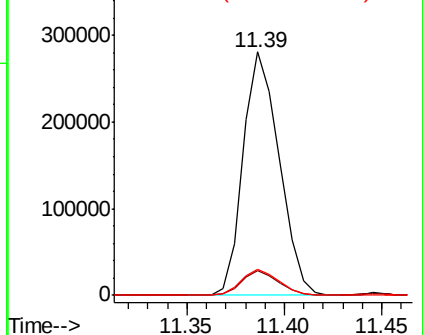
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. 0.01 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

Tgt Ion:188 Resp: 357926  
Ion Ratio Lower Upper  
188 100  
94 9.9 8.0 12.0  
80 10.7 8.6 12.8

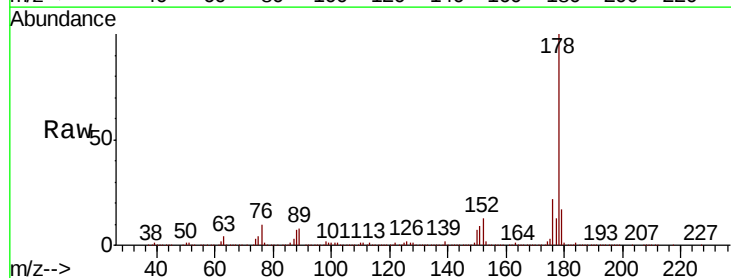


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

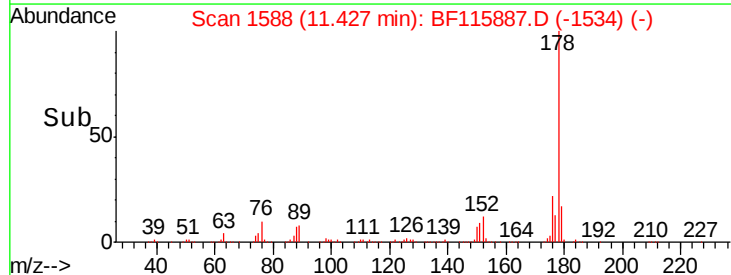
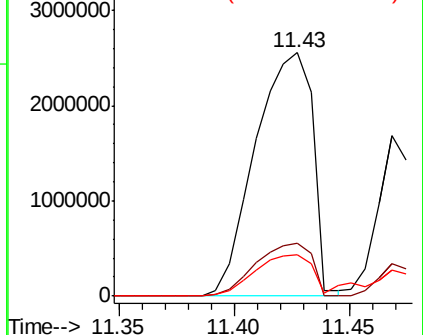


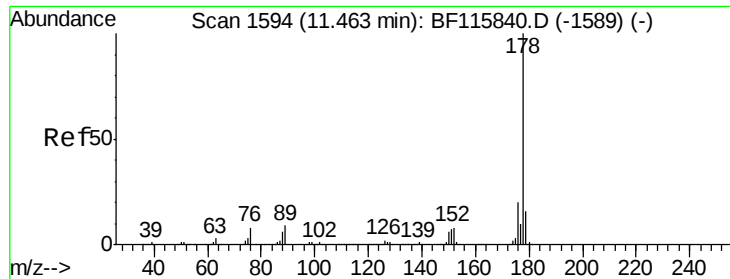
#71  
Phenanthrene  
Concen: 239.488 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. 0.02 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Tgt Ion:178 Resp: 4382139  
Ion Ratio Lower Upper  
178 100  
176 22.0 16.5 24.7  
179 17.1 12.6 18.8



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





#72

Anthracene

Concen: 89.392 ng

RT: 11.47 min Scan# 1595

Delta R.T. 0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

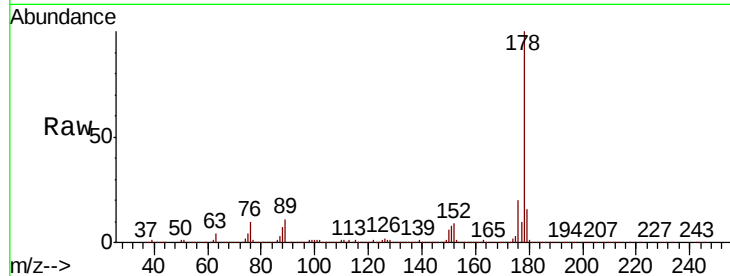
Tgt Ion:178 Resp: 1655392

Ion Ratio Lower Upper

178 100

176 20.2 15.7 23.5

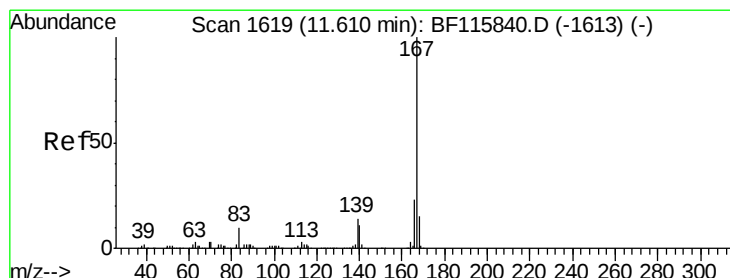
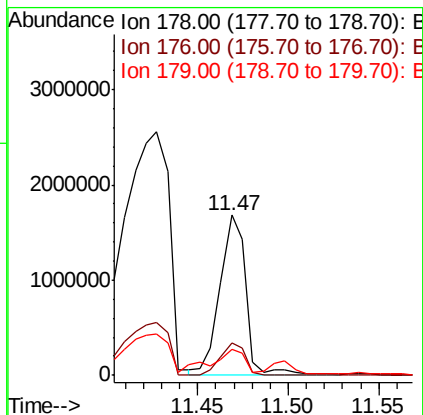
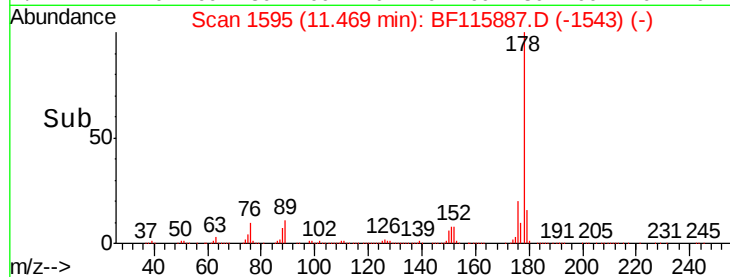
179 16.4 12.4 18.6



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: 40.779 ng

RT: 11.62 min Scan# 1620

Delta R.T. 0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

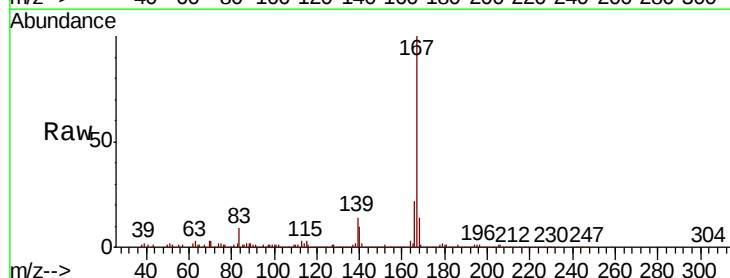
Tgt Ion:167 Resp: 685123

Ion Ratio Lower Upper

167 100

166 22.4 18.0 27.0

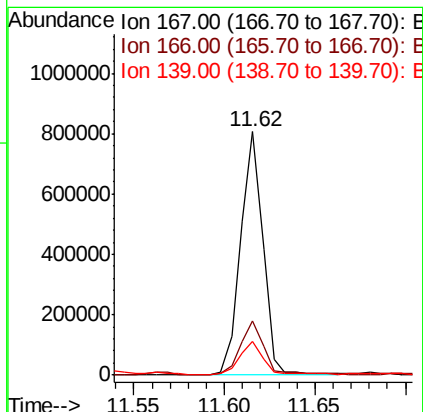
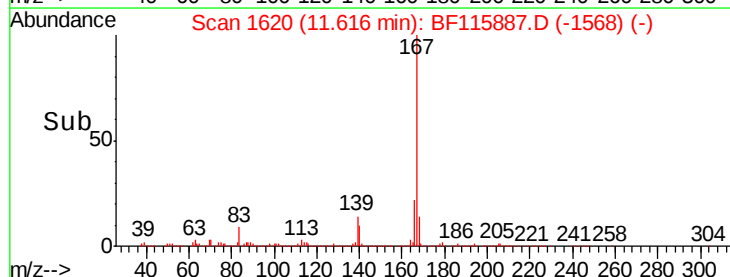
139 13.8 11.4 17.2

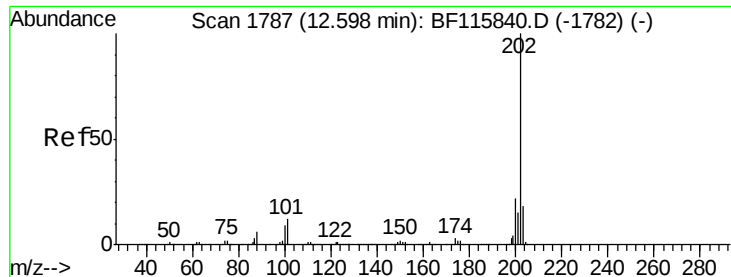


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 380.399 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.04 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

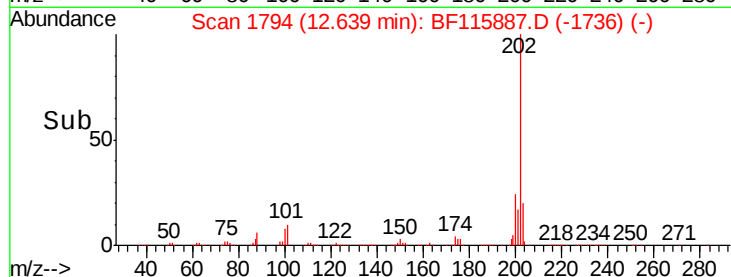
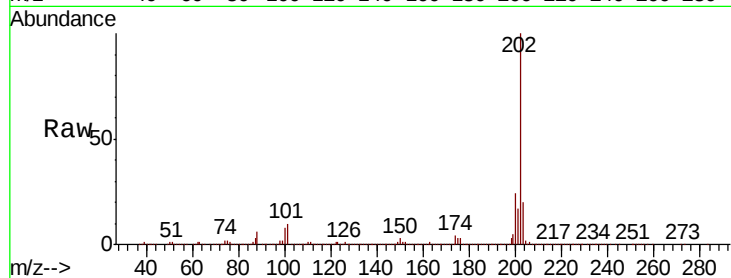
Tgt Ion:202 Resp: 7286966

Ion Ratio Lower Upper

202 100

101 10.2 0.0 31.5

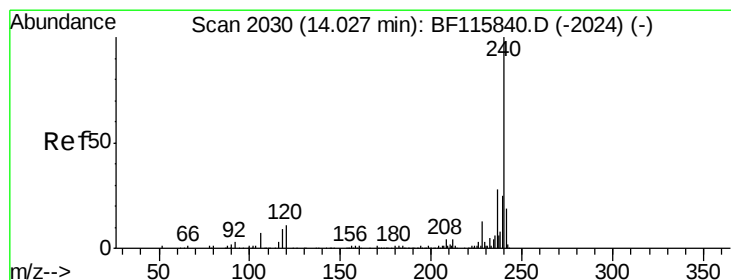
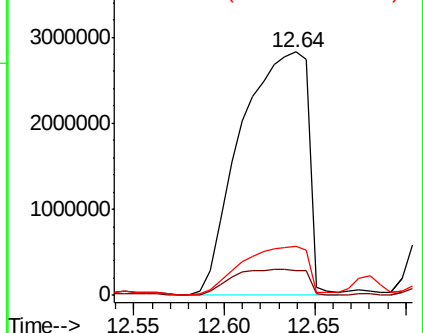
203 20.1 0.0 37.9



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: 14.06 min Scan# 2036

Delta R.T. 0.04 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

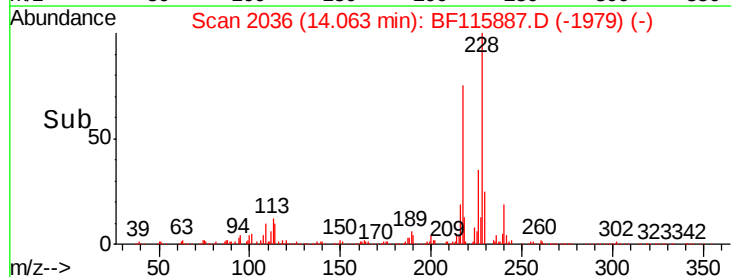
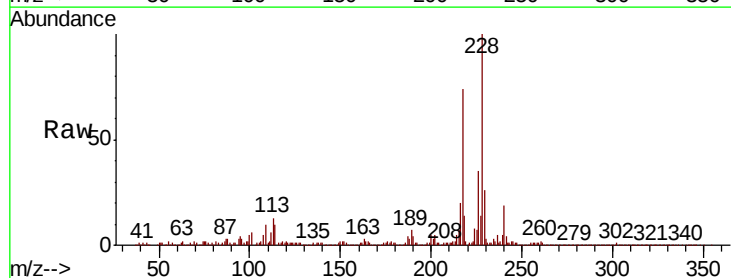
Tgt Ion:240 Resp: 199205

Ion Ratio Lower Upper

240 100

120 12.4 8.5 12.7

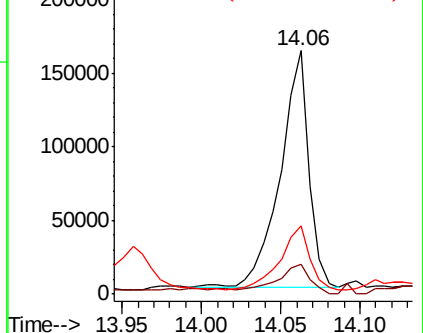
236 28.2 22.2 33.2

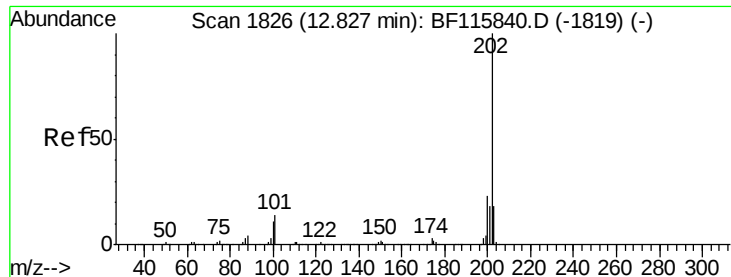


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

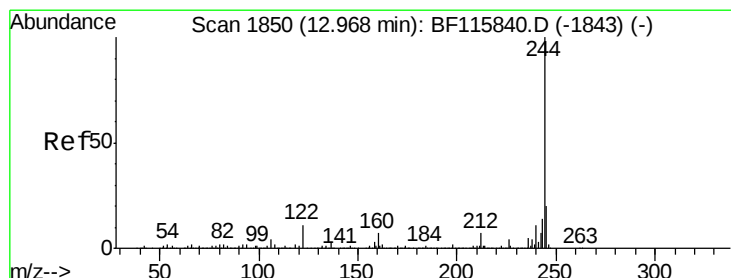
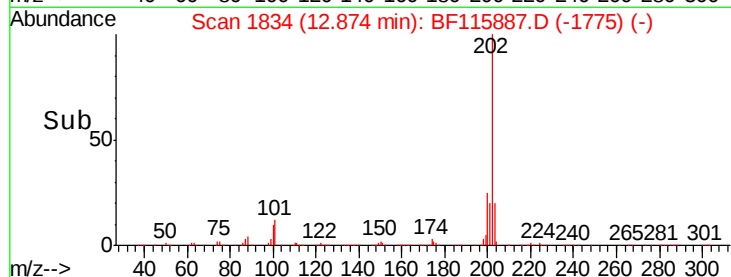
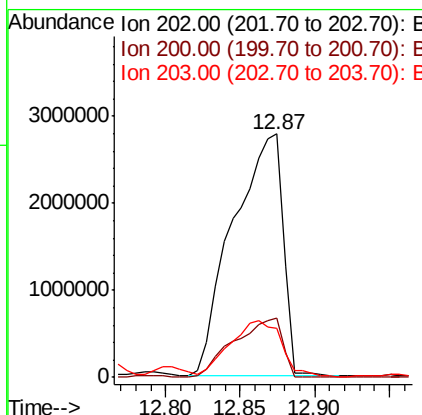
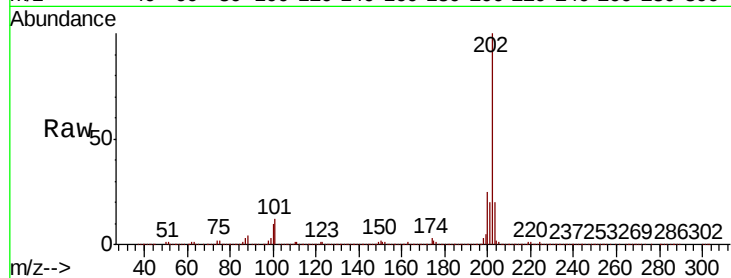




#78  
 Pyrene  
 Concen: 430.773 ng  
 RT: 12.87 min Scan# 1834  
 Delta R.T. 0.05 min  
 Lab File: BF115887.D  
 Acq: 1 Aug 2019 00:45

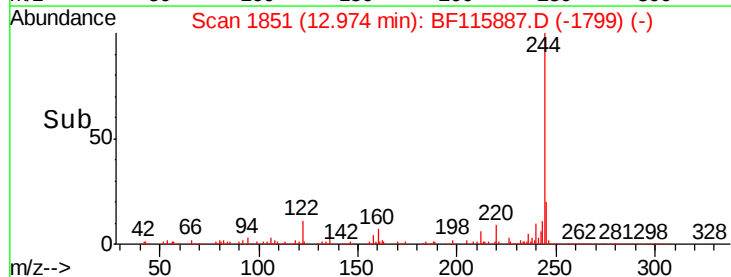
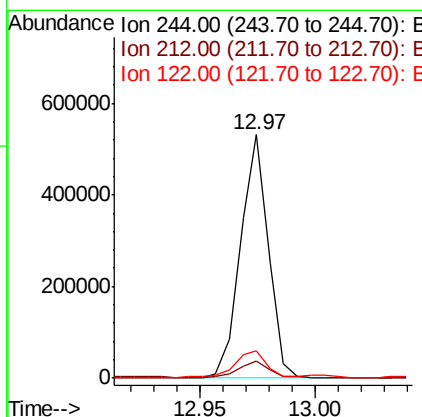
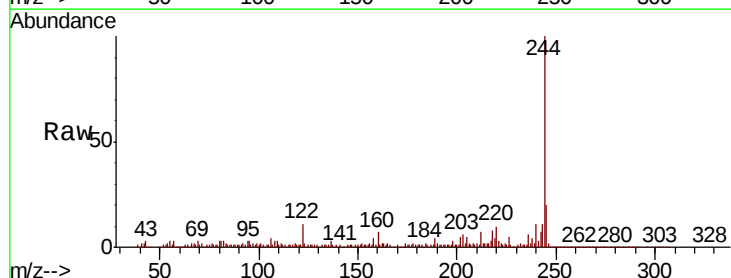
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-4

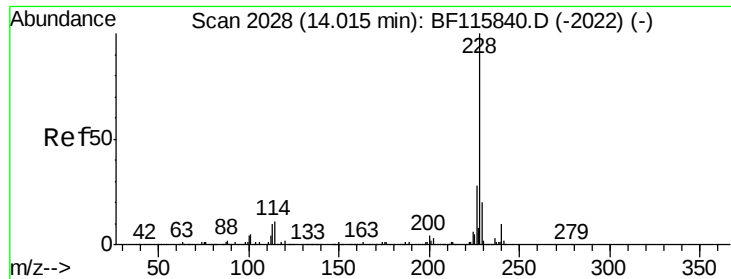
Tgt Ion:202 Resp: 6468640  
 Ion Ratio Lower Upper  
 202 100  
 200 24.6 18.2 27.2  
 203 20.2 14.3 21.5



#79  
 Terphenyl-d14  
 Concen: 47.070 ng  
 RT: 12.97 min Scan# 1851  
 Delta R.T. 0.01 min  
 Lab File: BF115887.D  
 Acq: 1 Aug 2019 00:45

Tgt Ion:244 Resp: 444989  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.6 8.4  
 122 11.4 8.6 13.0

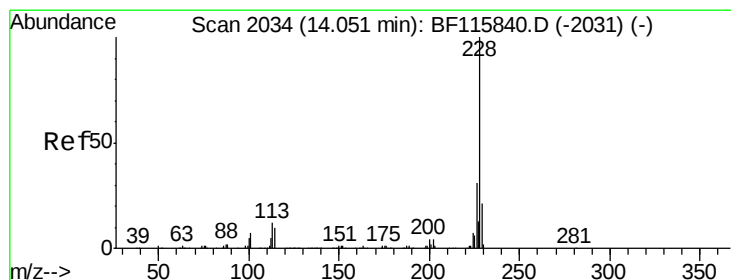
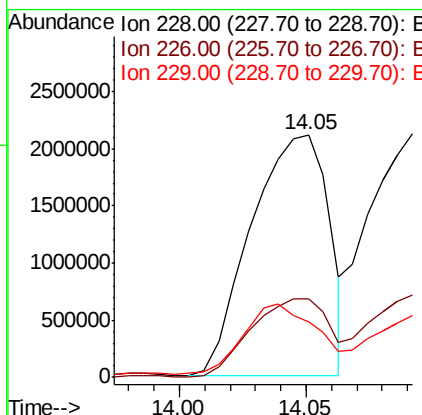
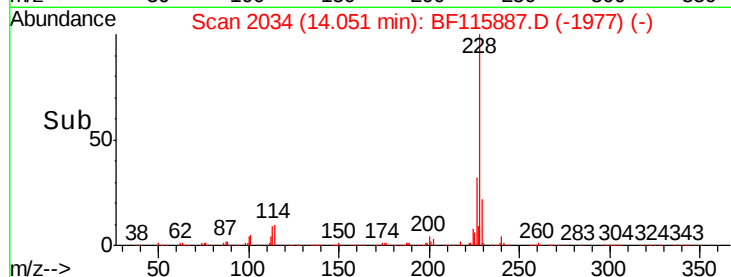
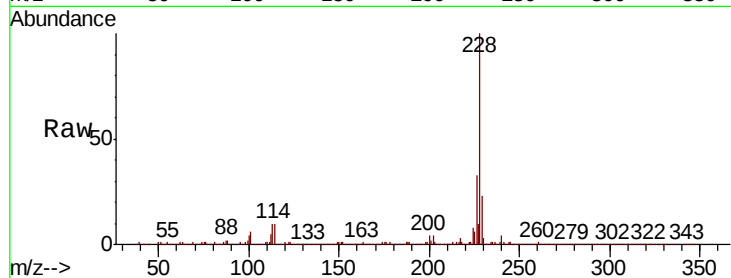




#81  
Benzo(a)anthracene  
Concen: 351.642 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. 0.04 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

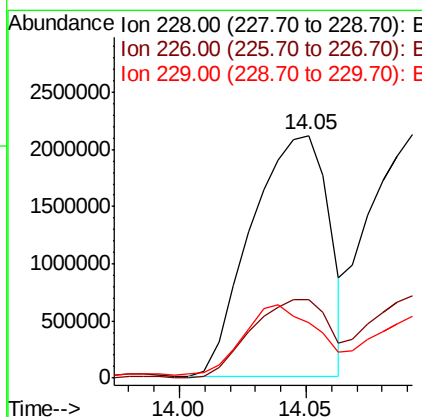
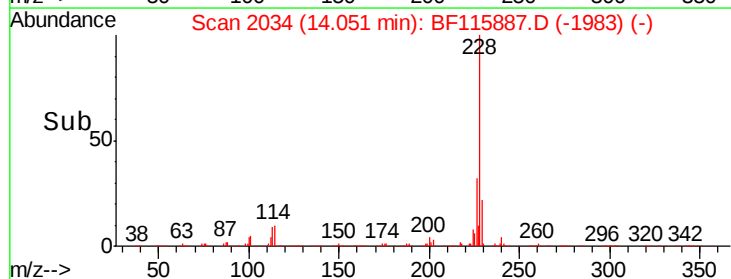
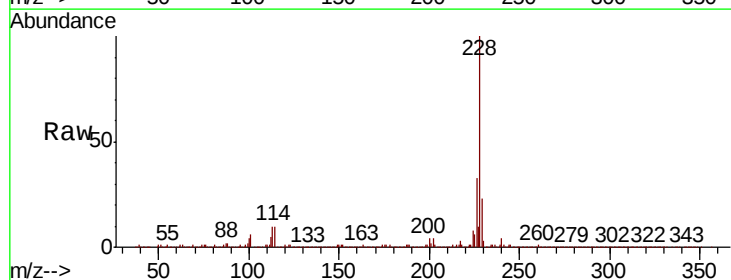
Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

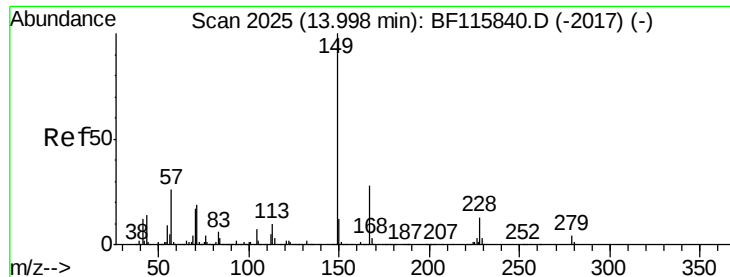
Tgt Ion:228 Resp: 4477277  
Ion Ratio Lower Upper  
228 100  
226 32.5 22.5 33.7  
229 22.7 16.1 24.1



#83  
Chrysene  
Concen: 362.203 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. 0.00 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Tgt Ion:228 Resp: 4477277  
Ion Ratio Lower Upper  
228 100  
226 32.5 24.8 37.2  
229 22.7 16.4 24.6





#84

Bis(2-ethylhexyl)phthalate

Concen: 12.510 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

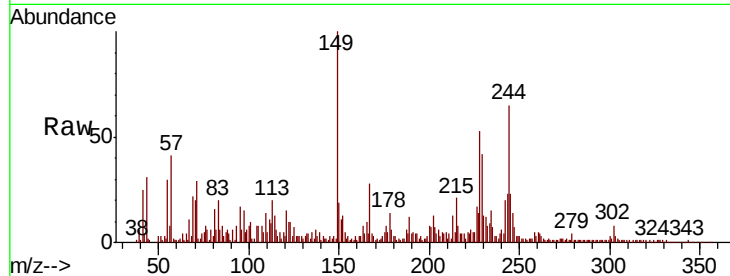
Tgt Ion:149 Resp: 103263

Ion Ratio Lower Upper

149 100

167 28.0 22.4 33.6

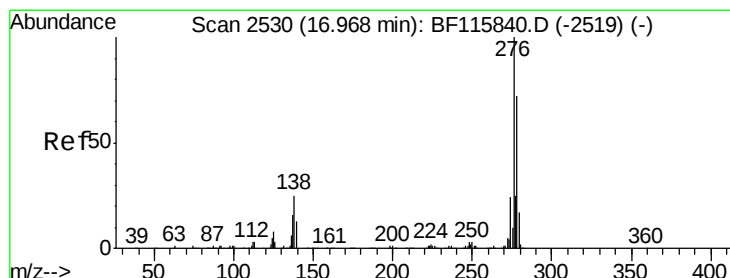
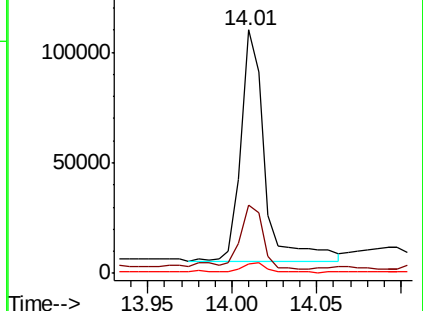
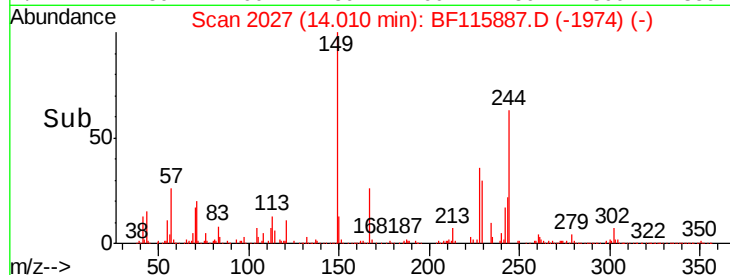
279 4.1 3.3 4.9



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 212.063 ng

RT: 17.05 min Scan# 2544

Delta R.T. 0.08 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

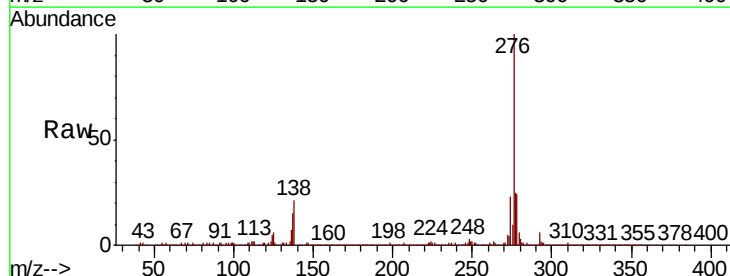
Tgt Ion:276 Resp: 2201672

Ion Ratio Lower Upper

276 100

138 22.1 19.6 29.4

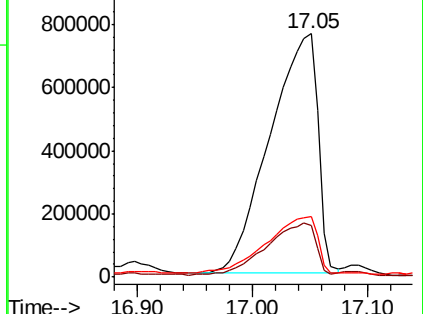
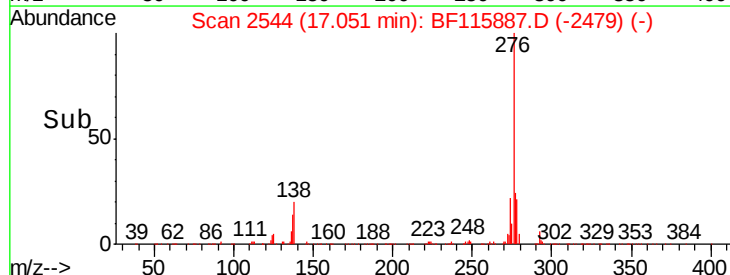
277 25.0 20.1 30.1

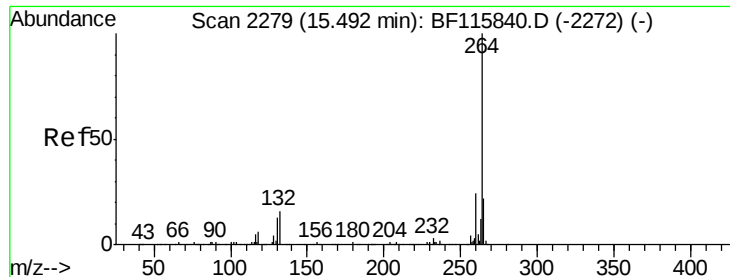


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



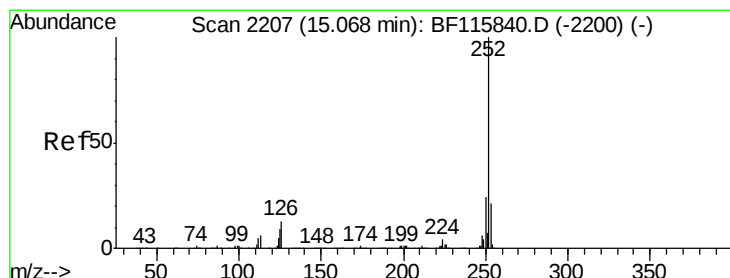
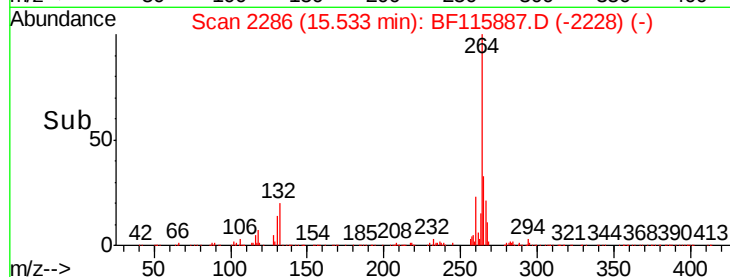
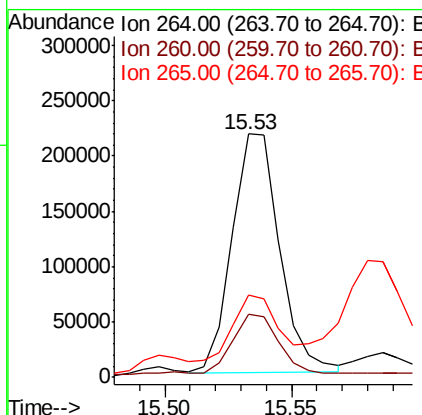
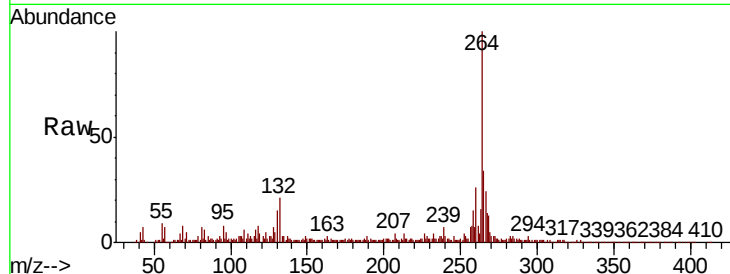


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.53 min Scan# 2286  
Delta R.T. 0.04 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

Tgt Ion: 264 Resp: 281198  

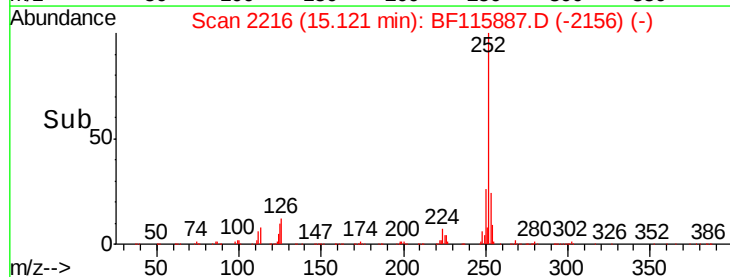
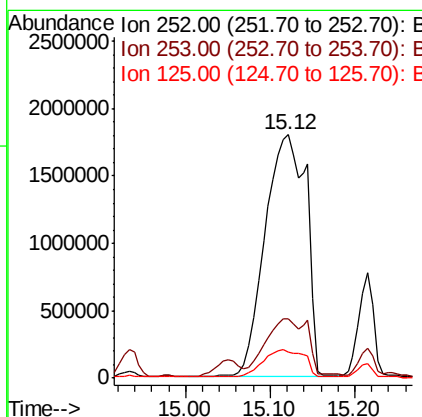
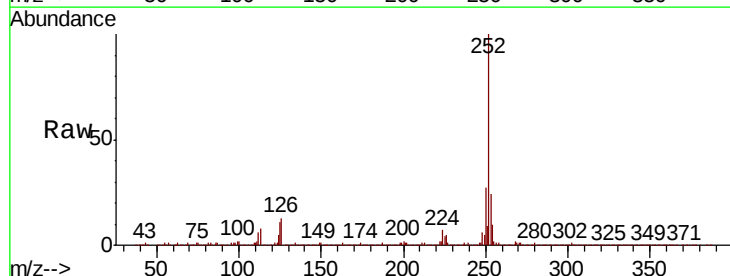
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.9  | 19.4  | 29.2  |
| 265 | 34.0  | 17.5  | 26.3# |

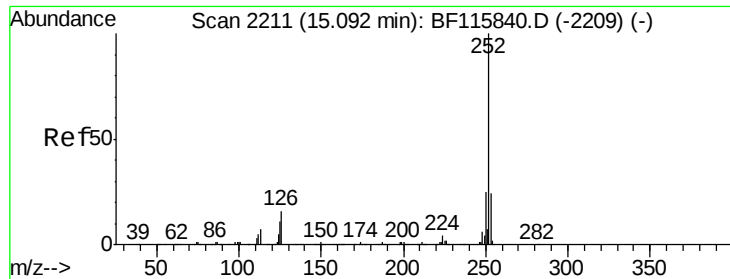


#88  
Benzo(b)fluoranthene  
Concen: 376.604 ng  
RT: 15.12 min Scan# 2216  
Delta R.T. 0.05 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Tgt Ion: 252 Resp: 6123277  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.4  | 17.2  | 25.8  |
| 125 | 10.8  | 7.4   | 11.0  |

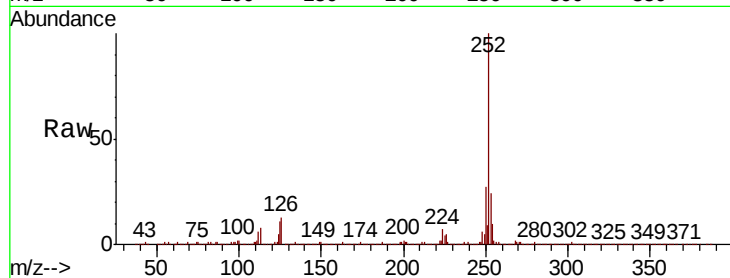




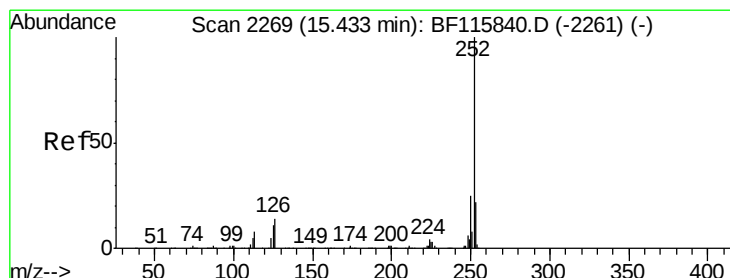
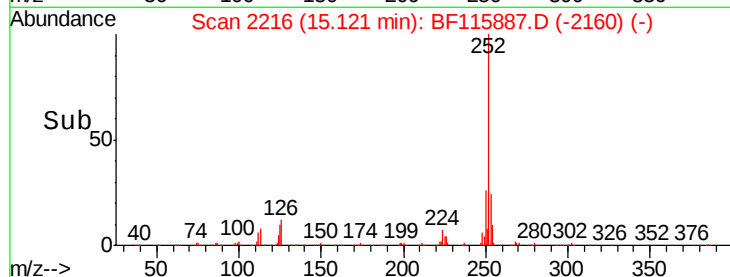
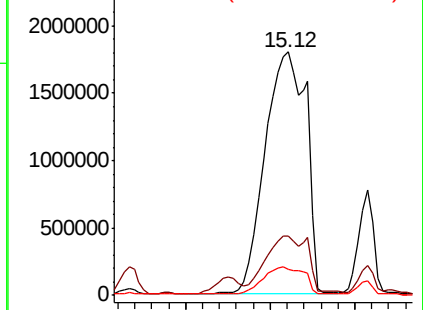
#89  
Benzo(k)fluoranthene  
Concen: 386.652 ng  
RT: 15.12 min Scan# 2216  
Delta R.T. 0.03 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Instrument :  
BNA\_F  
ClientSampleId :  
SP-4

Tgt Ion:252 Resp: 6123277  
Ion Ratio Lower Upper  
252 100  
253 24.4 18.2 27.4  
125 10.8 8.9 13.3

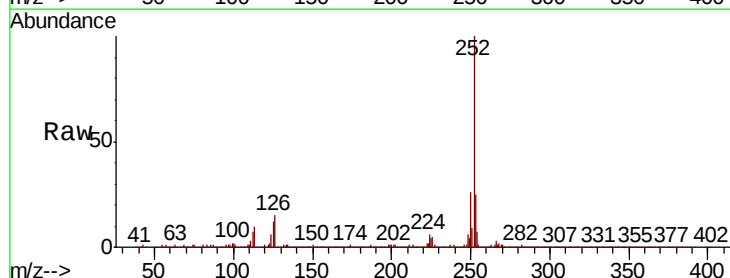


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

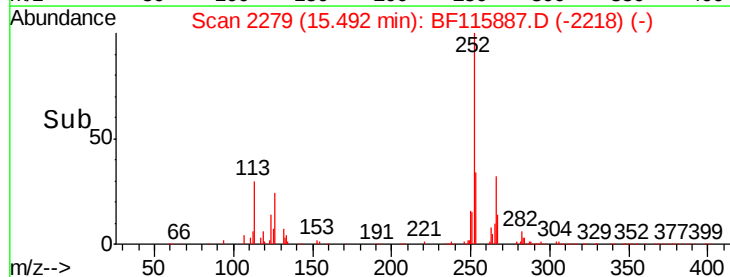
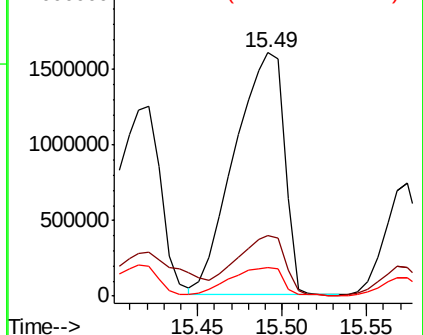


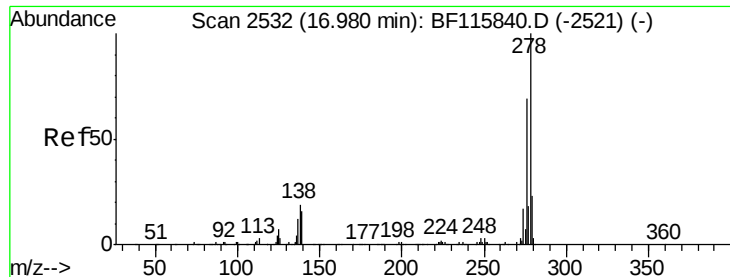
#90  
Benzo(a)pyrene  
Concen: 226.962 ng  
RT: 15.49 min Scan# 2279  
Delta R.T. 0.06 min  
Lab File: BF115887.D  
Acq: 1 Aug 2019 00:45

Tgt Ion:252 Resp: 3298771  
Ion Ratio Lower Upper  
252 100  
253 25.1 17.8 26.6  
125 11.8 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: 40.840 ng

RT: 17.19 min Scan# 2568

Delta R.T. 0.21 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

Instrument :

BNA\_F

ClientSampleId :

SP-4

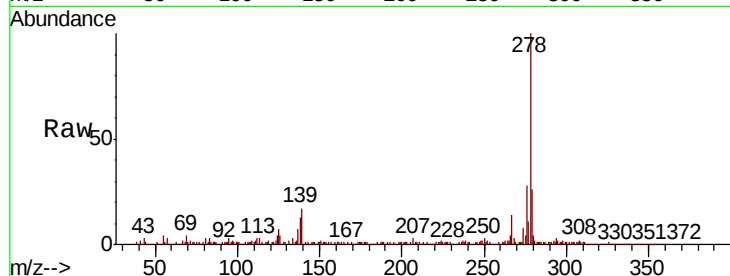
Tgt Ion:278 Resp: 513812

Ion Ratio Lower Upper

278 100

139 16.8 12.6 19.0

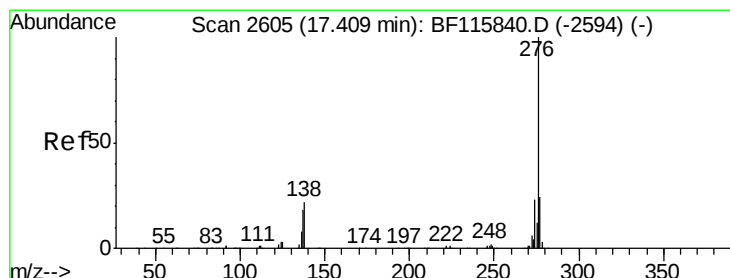
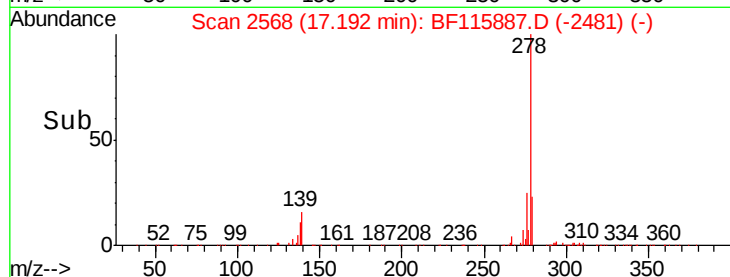
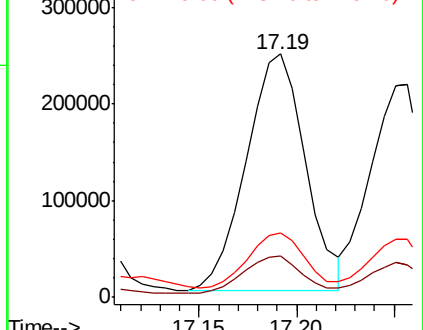
279 26.3 18.8 28.2



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: 164.454 ng

RT: 17.50 min Scan# 2620

Delta R.T. 0.09 min

Lab File: BF115887.D

Acq: 1 Aug 2019 00:45

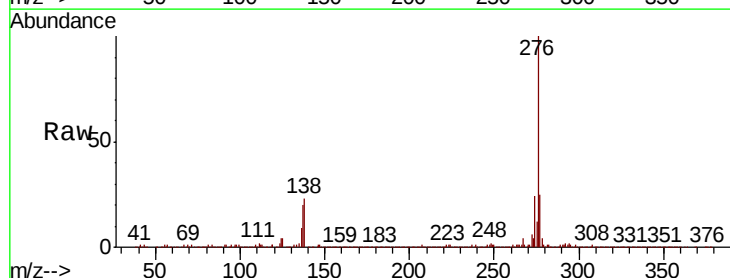
Tgt Ion:276 Resp: 2031970

Ion Ratio Lower Upper

276 100

277 24.6 19.5 29.3

138 22.9 17.8 26.8



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

