

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF102319\  
 Data File : BF117506.D  
 Acq On : 24 Oct 2019 1:37  
 Operator : JU  
 Sample : K5152-10 2X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-102219

Quant Time: Oct 24 09:09:13 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF101819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 18 18:53:31 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 40658    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 172510   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.76  | 164  | 89537    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.25 | 188  | 130445   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.89 | 240  | 91171    | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.33 | 264  | 83920    | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

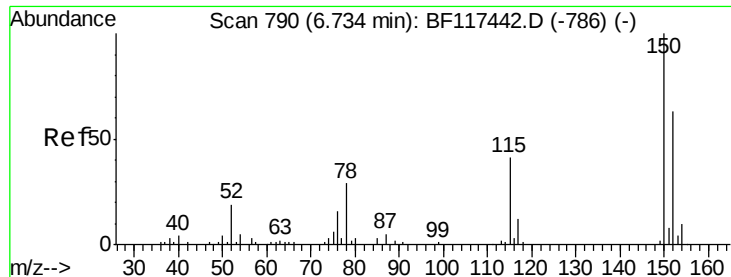
|                          |       |     |        |       |    |       |
|--------------------------|-------|-----|--------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.35  | 112 | 119495 | 43.72 | ng | 0.00  |
| 7) Phenol-d6             | 6.37  | 99  | 163018 | 44.41 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 7.29  | 82  | 99067  | 28.35 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.56 | 330 | 29839  | 38.52 | ng | 0.00  |
| 45) 2-Fluorobiphenyl     | 9.09  | 172 | 176072 | 27.71 | ng | 0.00  |
| 79) Terphenyl-d14        | 12.83 | 244 | 133887 | 23.95 | ng | 0.00  |

## Target Compounds

|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 6.50  | 77  | 3259   | Below Cal | # | 70     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70  | 13986  | 6.239 ng  | # | 78     |
| 25) Isophorone                 | 7.29  | 82  | 99066  | 16.388 ng | # | 65     |
| 50) Dimethylphthalate          | 9.48  | 163 | 21513  | 3.370 ng  |   | 99     |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165 | 11967  | 8.984 ng  | # | 24     |
| 56) 4-Nitrophenol              | 9.97  | 139 | 809    | 5.162 ng  | # | 39     |
| 71) Phenanthrene               | 11.27 | 178 | 116214 | 15.343 ng |   | 99     |
| 72) Anthracene                 | 11.33 | 178 | 24348  | 3.133 ng  |   | 97     |
| 75) Fluoranthene               | 12.46 | 202 | 125095 | 16.498 ng |   | 99     |
| 77) Benzidine                  | 12.64 | 184 | 107    | Below Cal | # | 1      |
| 78) Pyrene                     | 12.69 | 202 | 168721 | 21.545 ng |   | 99     |
| 81) Benzo(a)anthracene         | 13.88 | 228 | 66311  | 10.783 ng |   | 99     |
| 83) Chrysene                   | 13.92 | 228 | 63162  | 10.479 ng |   | 95     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.74 | 276 | 16210  | 3.602 ng  | # | 91     |
| 88) Benzo(b)fluoranthene       | 14.92 | 252 | 67131  | 13.547 ng | # | 92     |
| 89) Benzo(k)fluoranthene       | 14.92 | 252 | 67131  | 13.217 ng | # | 91     |
| 90) Benzo(a)pyrene             | 15.27 | 252 | 36517  | 8.105 ng  | # | 88     |
| 92) Benzo(g,h,i)perylene       | 17.17 | 276 | 16030  | 4.349 ng  | # | 87     |

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



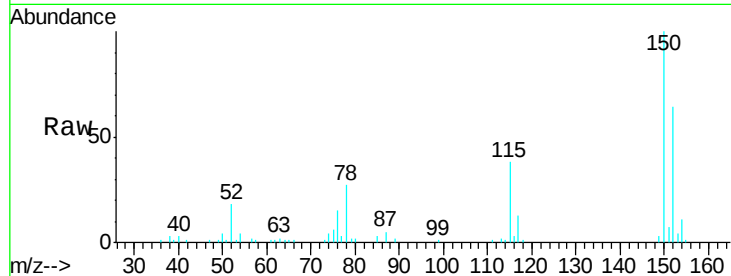


#1

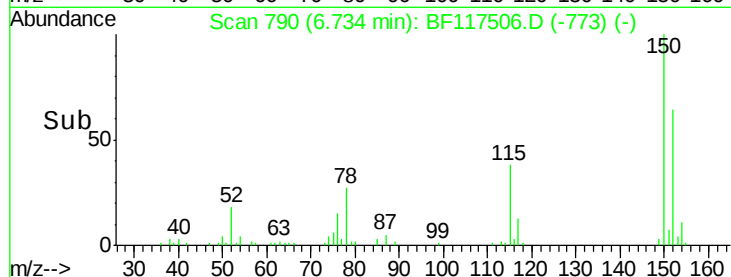
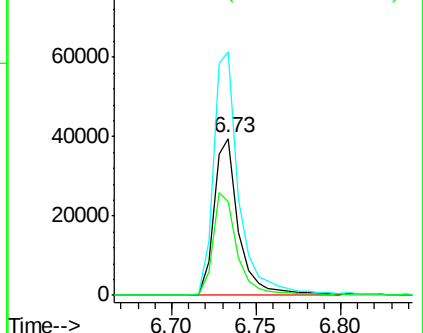
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. 0.00 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-102219

Tgt Ion:152 Resp: 40658  
Ion Ratio Lower Upper  
152 100  
150 155.4 126.8 190.2  
115 59.6 51.6 77.4



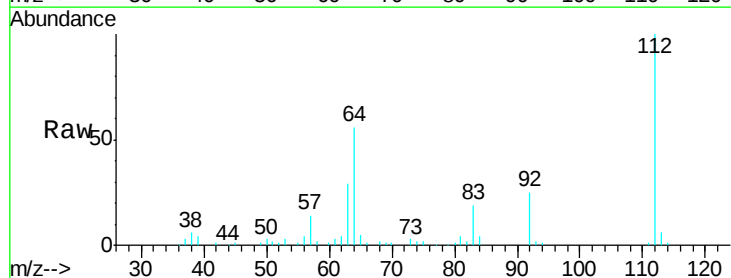
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



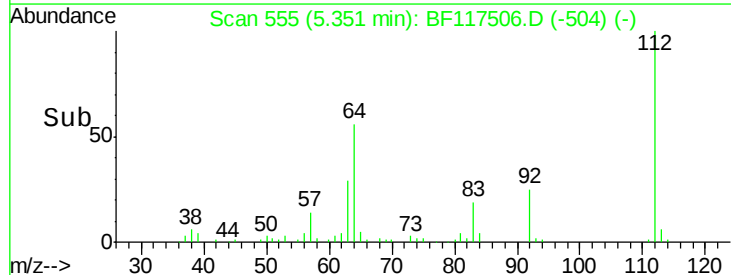
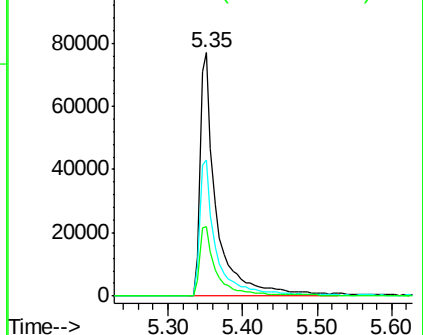
#5

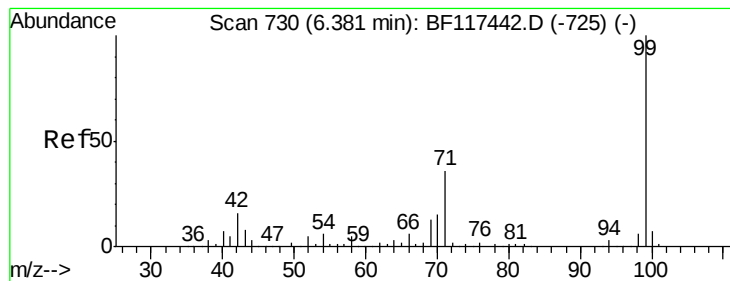
2-Fluorophenol  
Concen: 43.724 ng  
RT: 5.35 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

Tgt Ion:112 Resp: 119495  
Ion Ratio Lower Upper  
112 100  
64 55.9 44.1 66.1  
63 28.6 23.4 35.2



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: 44.411 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

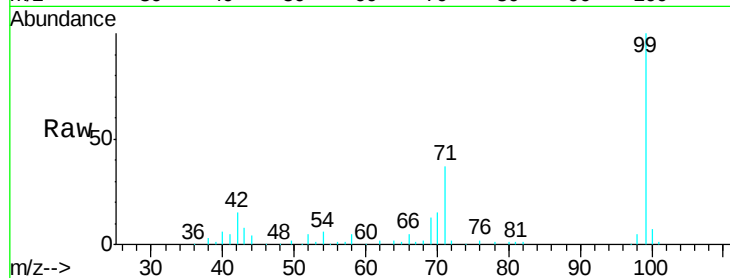
Tgt Ion: 99 Resp: 163018

Ion Ratio Lower Upper

99 100

42 15.1 12.8 19.2

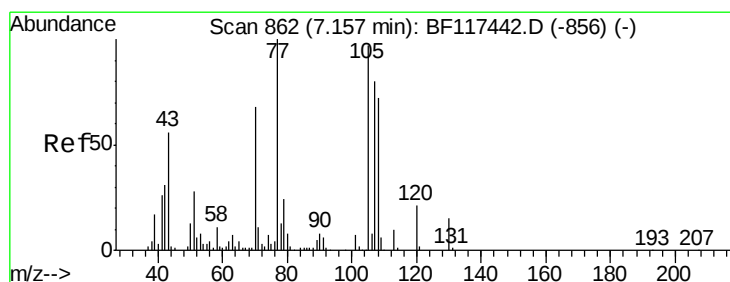
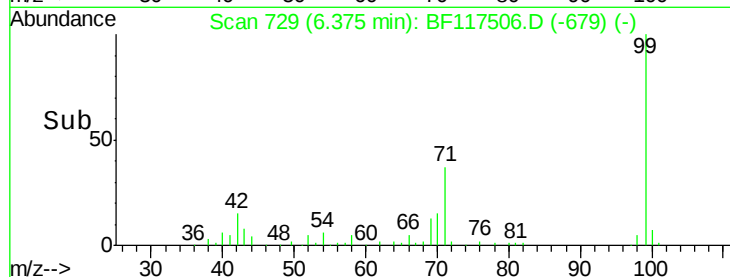
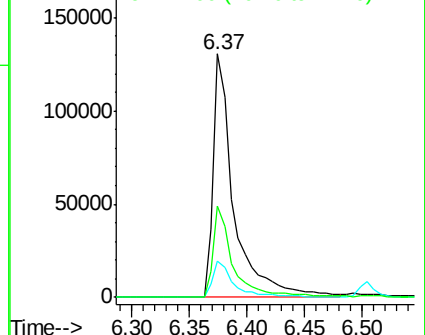
71 37.3 28.6 43.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.239 ng

RT: 7.29 min Scan# 885

Delta R.T. 0.14 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Tgt Ion: 70 Resp: 13986

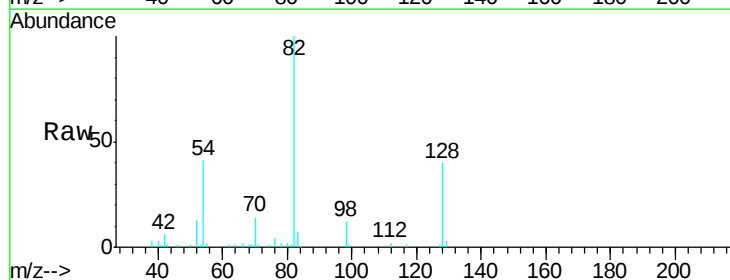
Ion Ratio Lower Upper

70 100

42 40.3 36.7 55.1

101 0.0 8.3 12.5#

130 0.0 18.1 27.1#

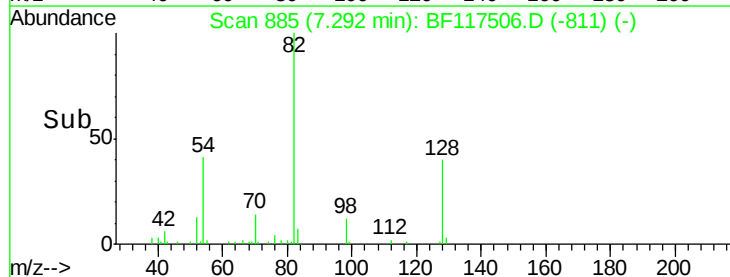
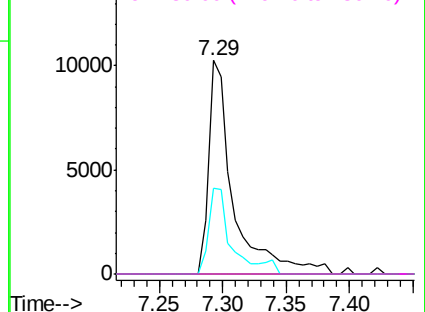


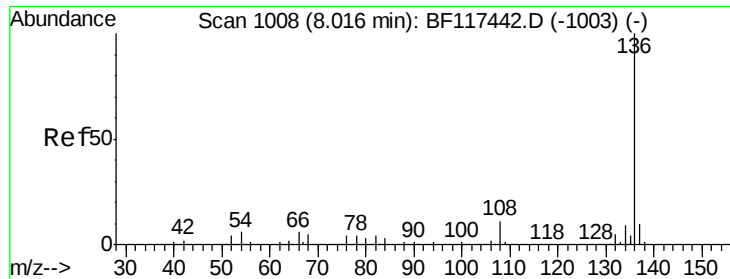
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

Tgt Ion: 136 Resp: 172510

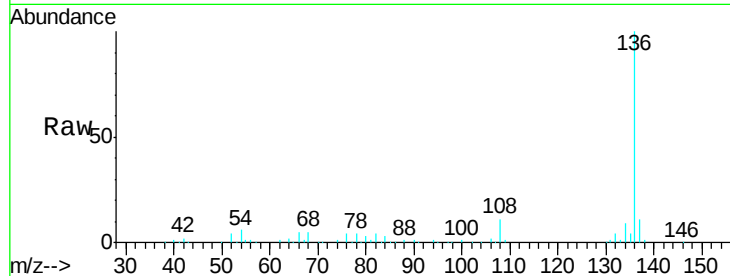
Ion Ratio Lower Upper

136 100

137 11.2 8.2 12.4

54 6.3 4.5 6.7

68 5.0 4.3 6.5

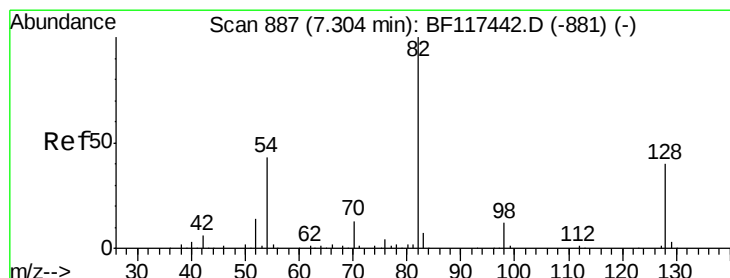
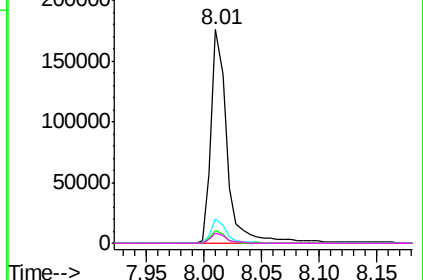
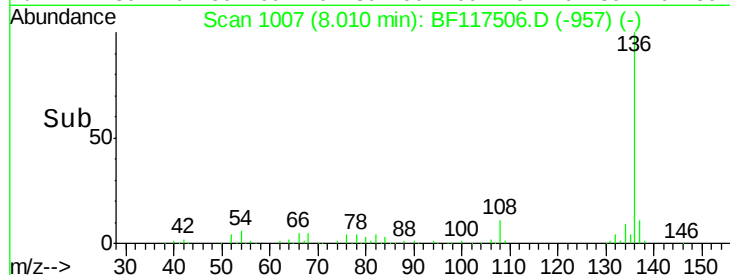


Abundance Ion 136.00 (135.70 to 136.70): E

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: 28.350 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

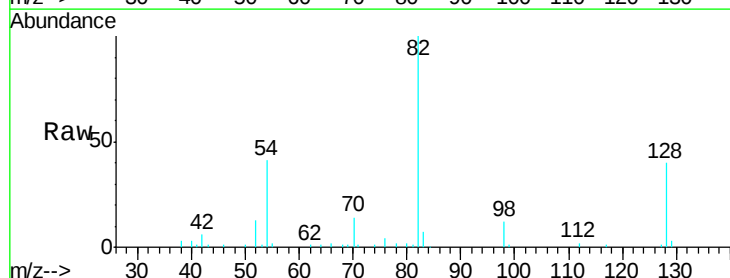
Tgt Ion: 82 Resp: 99067

Ion Ratio Lower Upper

82 100

128 40.4 32.2 48.2

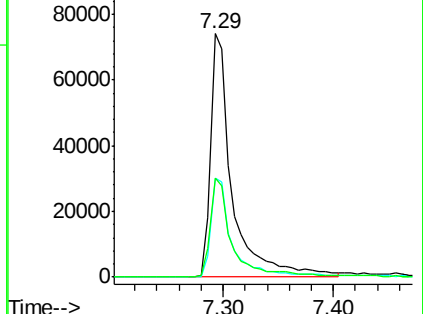
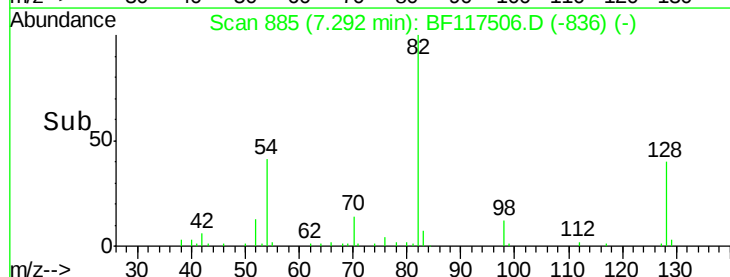
54 40.7 34.2 51.2

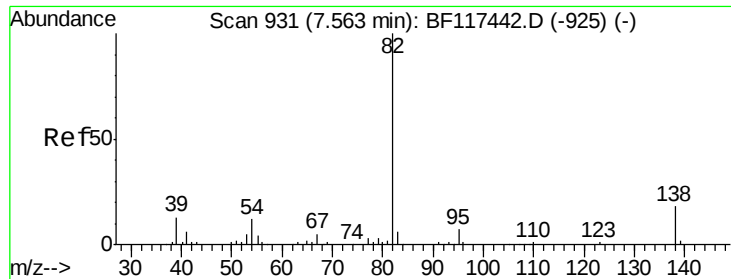


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.388 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.27 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

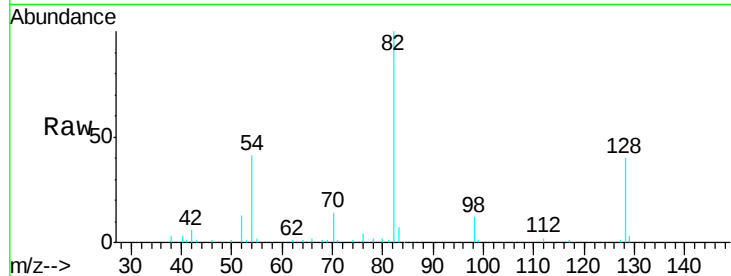
Tgt Ion: 82 Resp: 99066

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

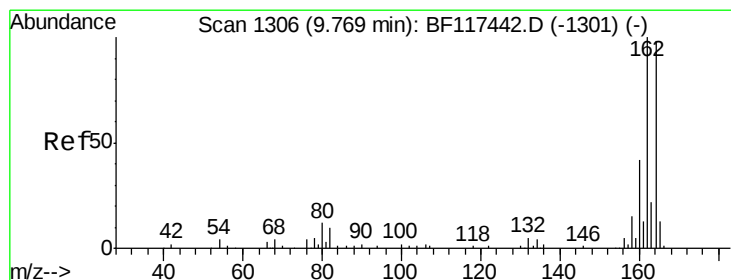
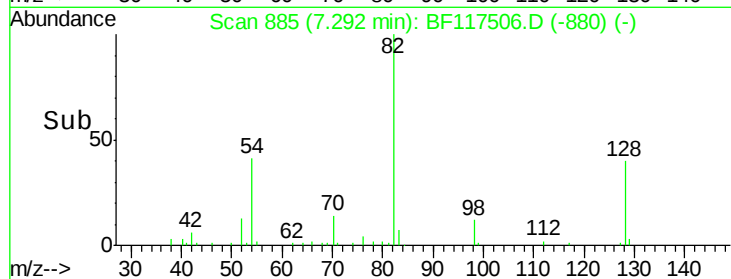
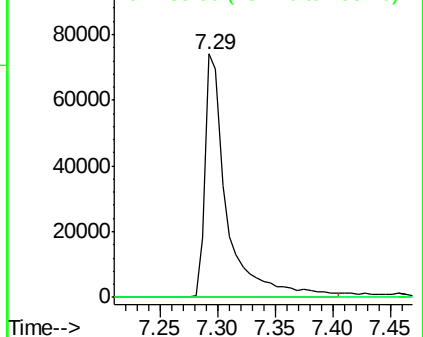
138 0.0 14.2 21.2#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

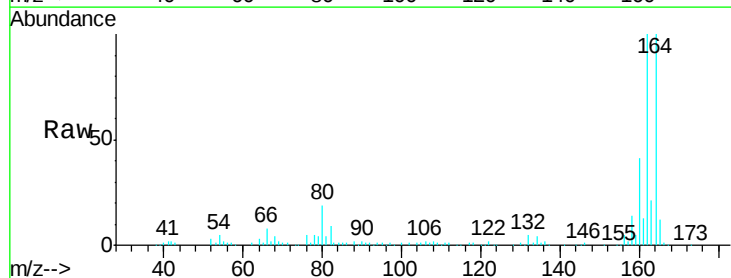
Tgt Ion: 164 Resp: 89537

Ion Ratio Lower Upper

164 100

162 99.6 81.8 122.6

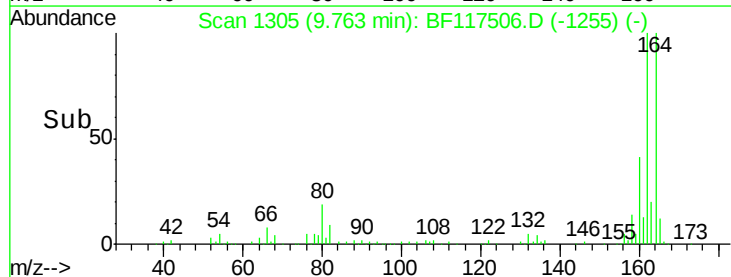
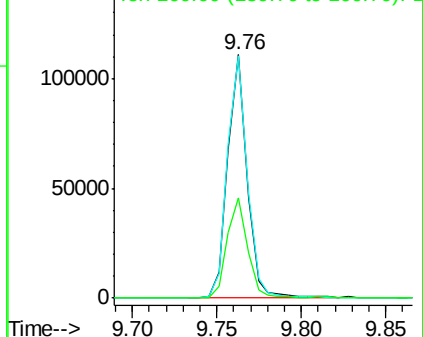
160 41.3 34.4 51.6

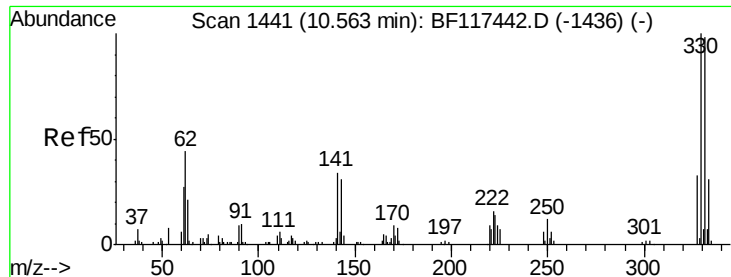


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 38.516 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

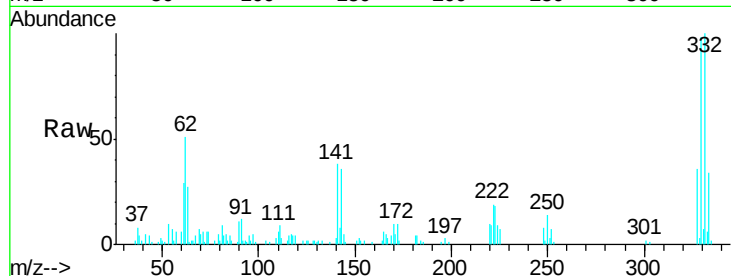
Tgt Ion:330 Resp: 29839

Ion Ratio Lower Upper

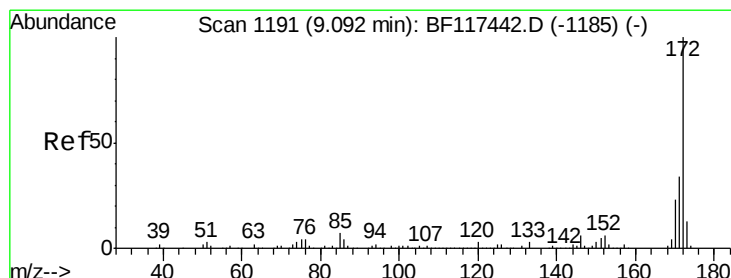
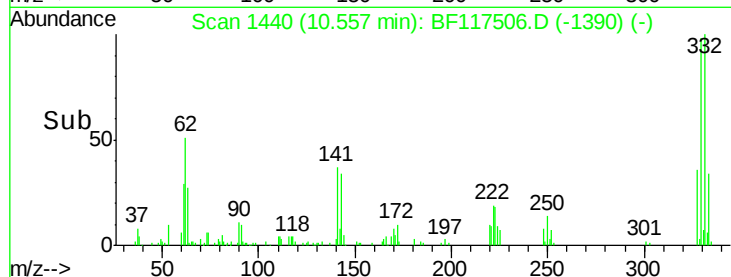
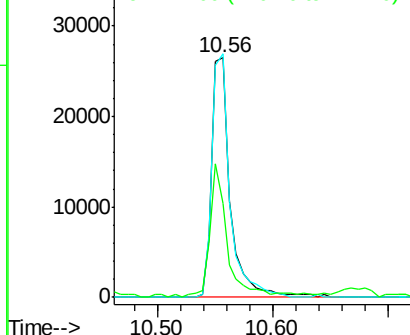
330 100

332 98.5 78.5 117.7

141 50.6 37.0 55.6



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: 27.707 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

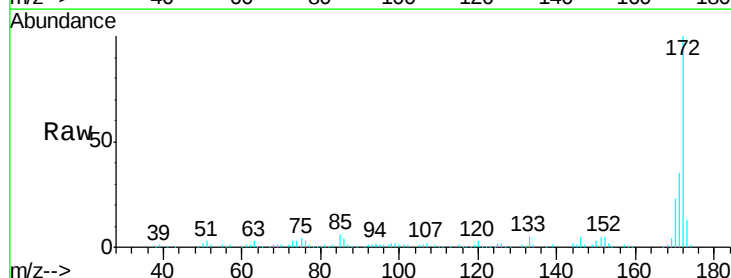
Tgt Ion:172 Resp: 176072

Ion Ratio Lower Upper

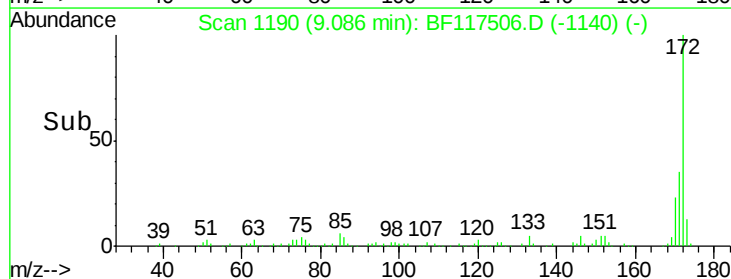
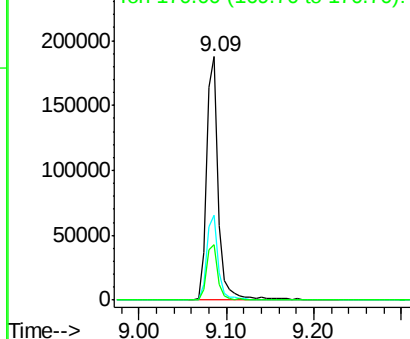
172 100

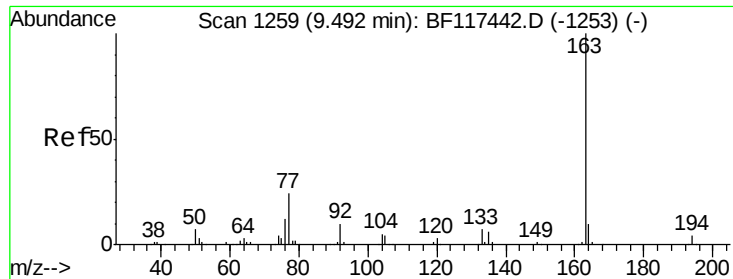
171 34.8 27.5 41.3

170 22.9 18.6 27.8



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

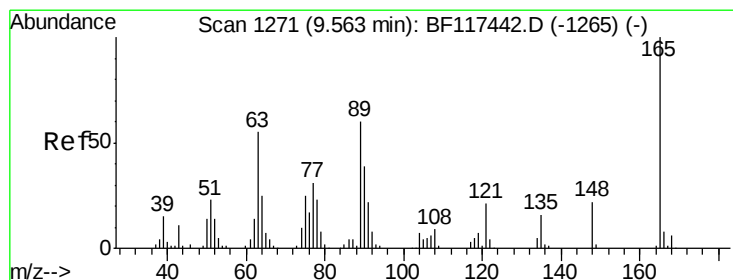
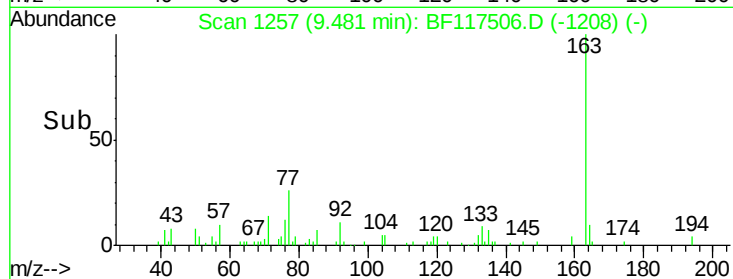
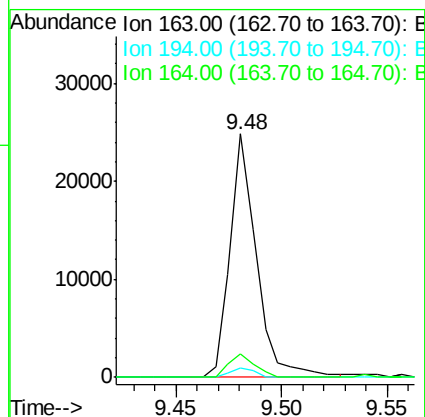
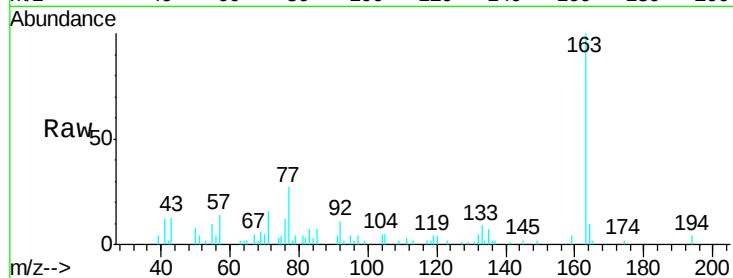




#50  
Dimethylphthalate  
Concen: 3.370 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.01 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

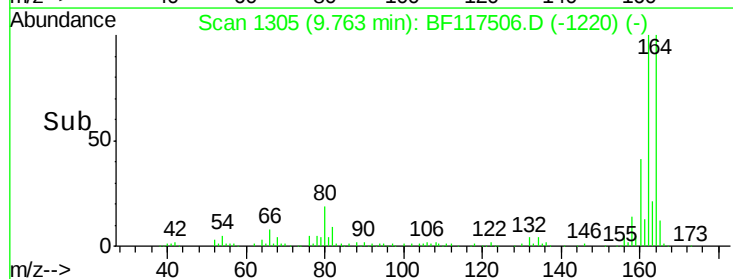
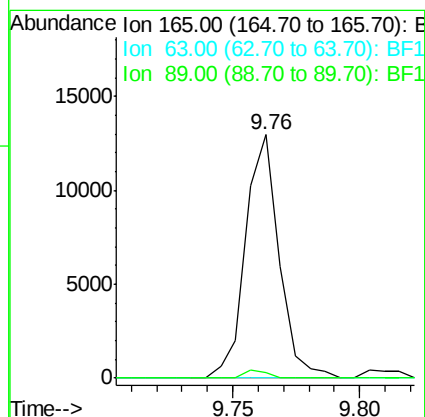
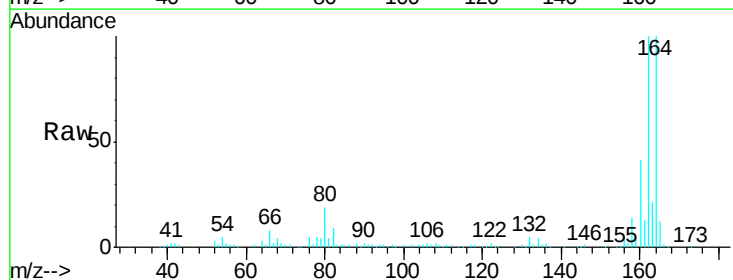
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-102219

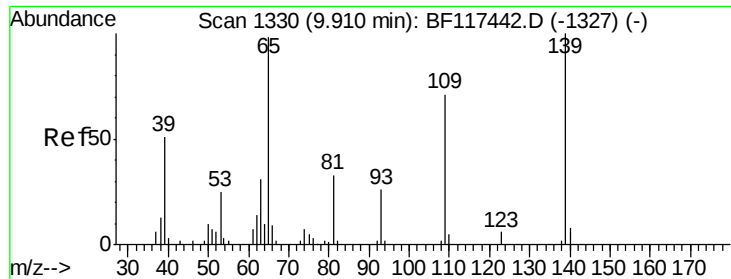
Tgt Ion:163 Resp: 21513  
Ion Ratio Lower Upper  
163 100  
194 3.7 2.9 4.3  
164 9.5 8.2 12.2



#51  
2,6-Dinitrotoluene  
Concen: 8.984 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. 0.20 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

Tgt Ion:165 Resp: 11967  
Ion Ratio Lower Upper  
165 100  
63 0.0 43.8 65.8#  
89 2.5 47.6 71.4#

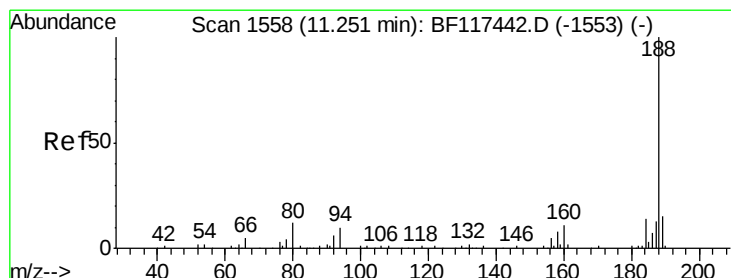
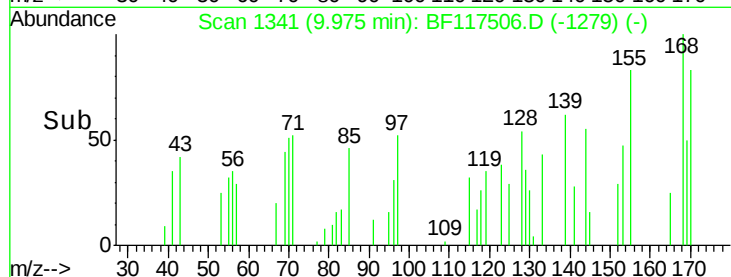
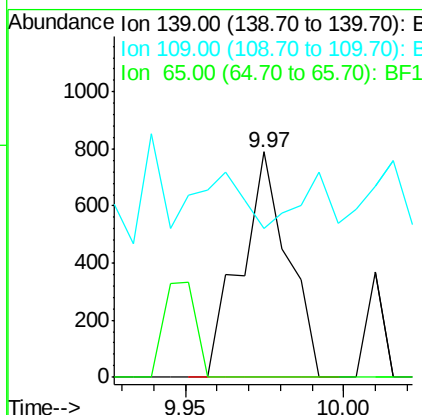
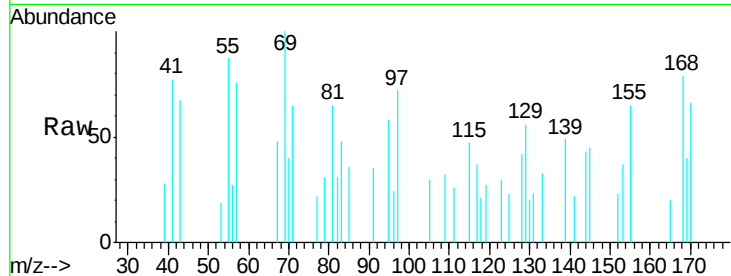




#56  
4-Nitrophenol  
Concen: 5.162 ng  
RT: 9.97 min Scan# 1341  
Delta R.T. 0.07 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

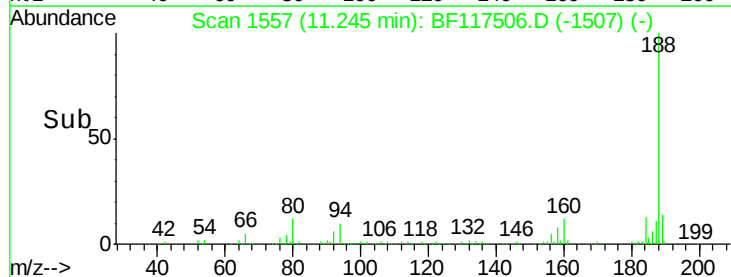
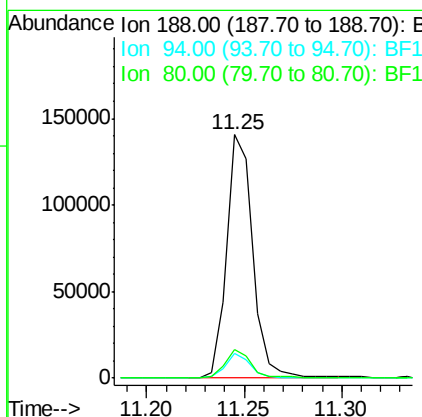
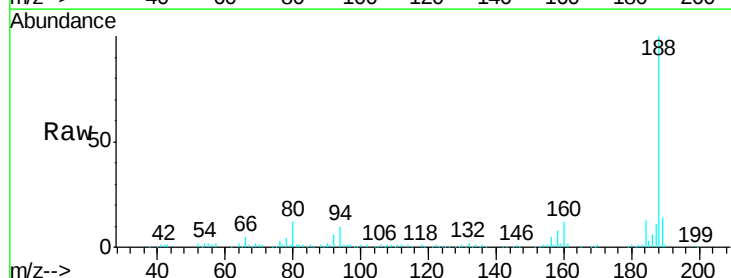
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-102219

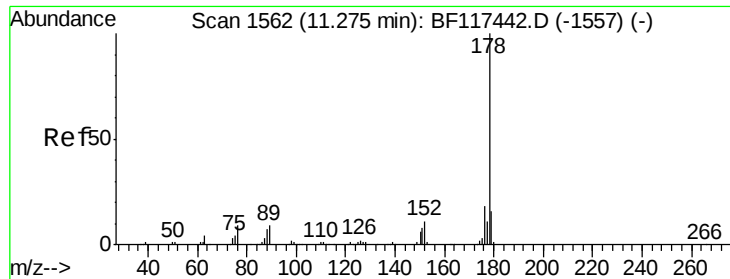
Tgt Ion:139 Resp: 809  
Ion Ratio Lower Upper  
139 100  
109 66.2 51.4 91.4  
65 0.0 79.4 119.4#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.25 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

Tgt Ion:188 Resp: 130445  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.0 12.0  
80 11.6 9.5 14.3





#71

Phenanthrene

Concen: 15.343 ng

RT: 11.27 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

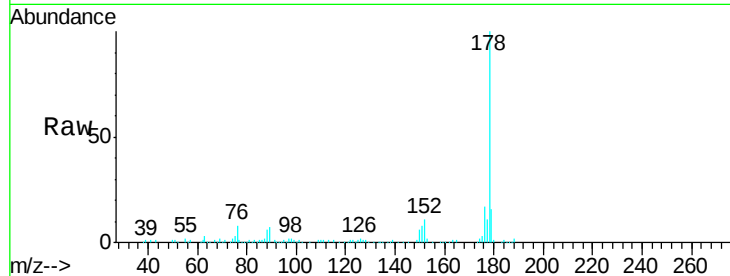
Tgt Ion:178 Resp: 116214

Ion Ratio Lower Upper

178 100

176 17.4 14.6 22.0

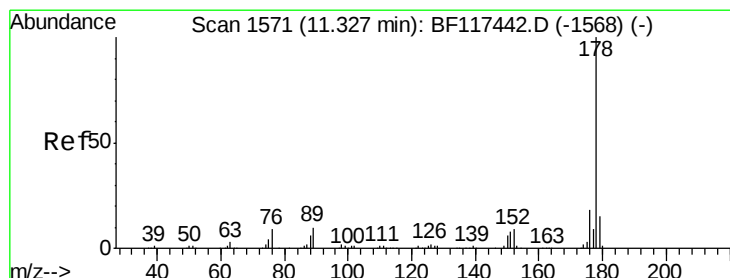
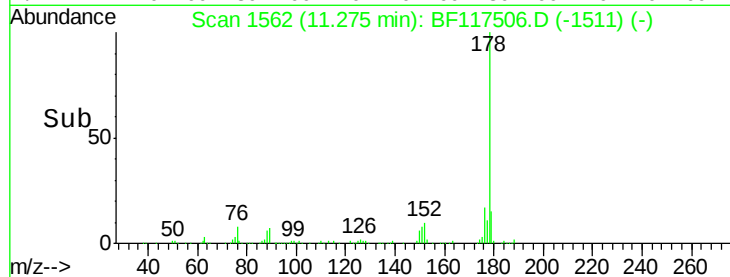
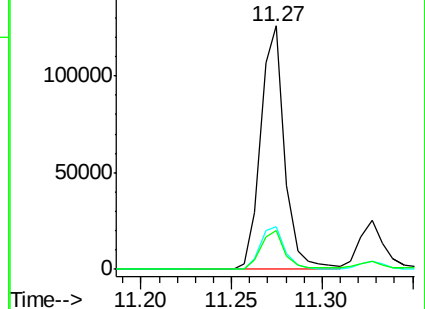
179 15.9 12.6 19.0



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: 3.133 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

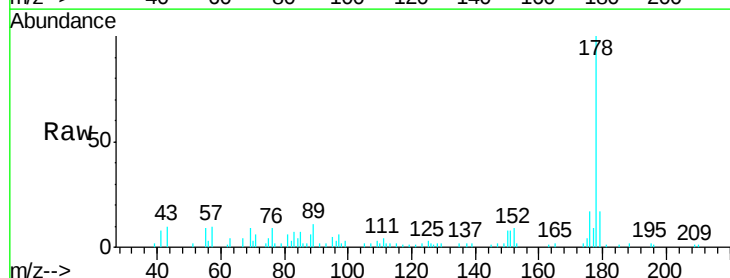
Tgt Ion:178 Resp: 24348

Ion Ratio Lower Upper

178 100

176 17.4 14.7 22.1

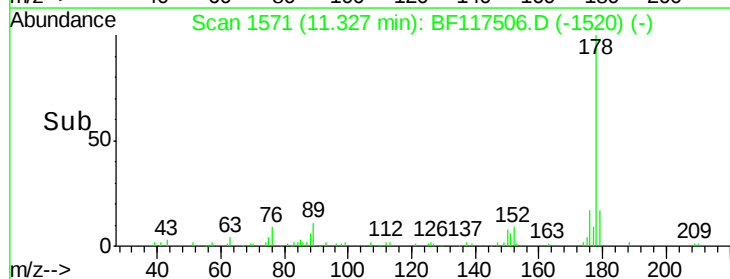
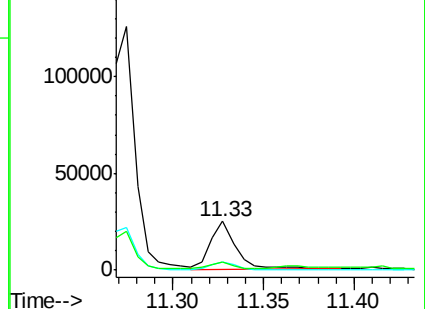
179 17.1 12.2 18.2

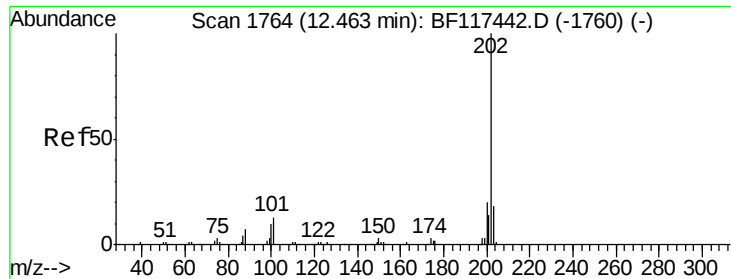


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 16.498 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.00 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

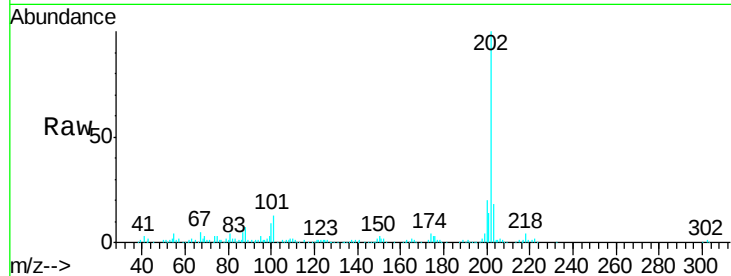
Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

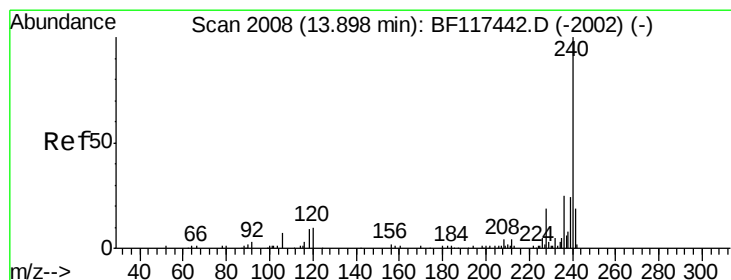
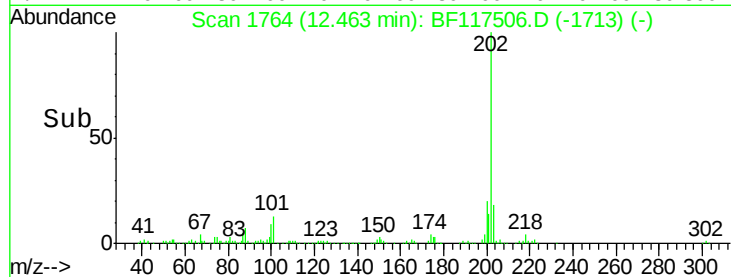
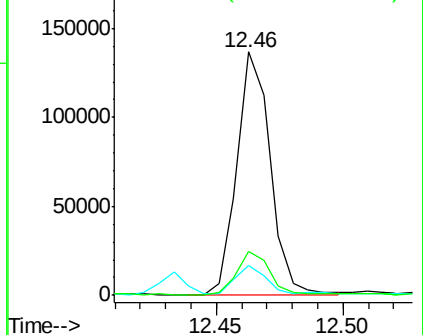
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 125095 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 12.5  | 0.0   | 32.7   |
| 203      | 18.0  | 0.0   | 37.6   |



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

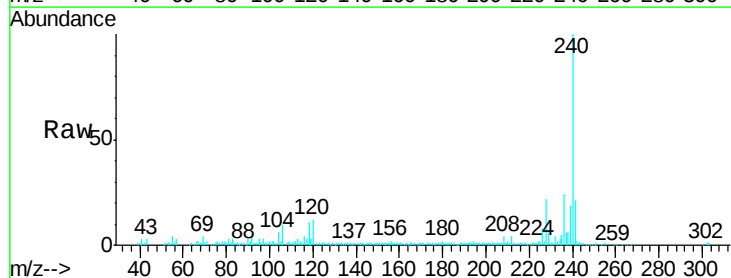
RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

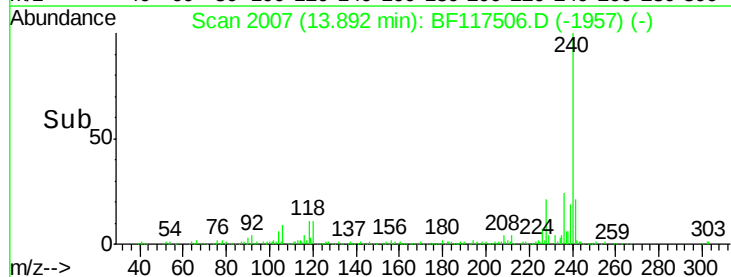
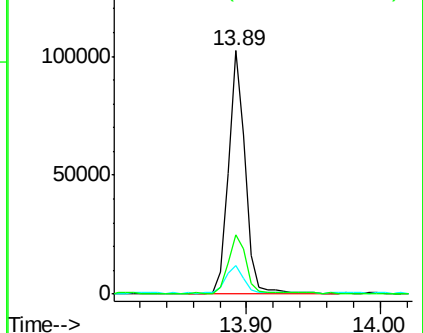
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 240   | Resp: | 91171 |
| Ion      | Ratio | Lower | Upper |
| 240      | 100   |       |       |
| 120      | 11.7  | 8.4   | 12.6  |
| 236      | 24.4  | 20.0  | 30.0  |

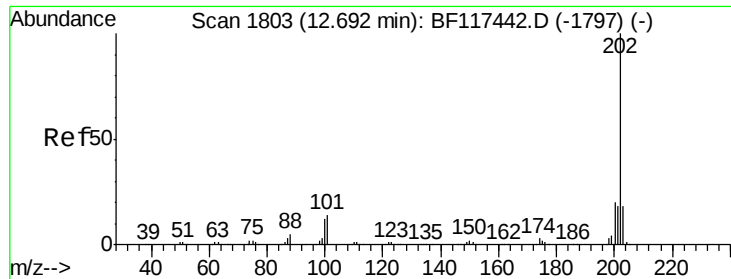


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

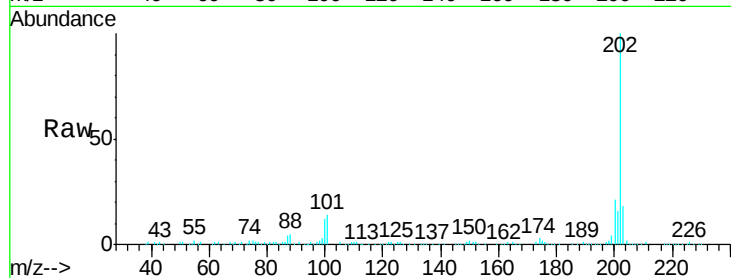




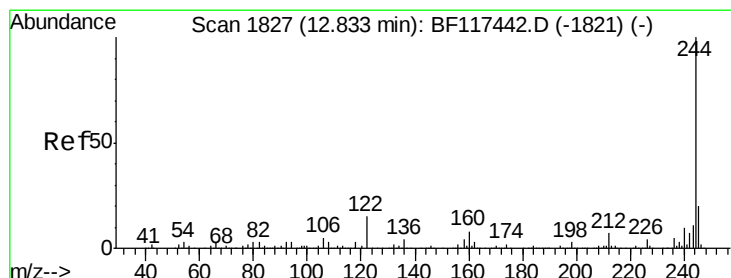
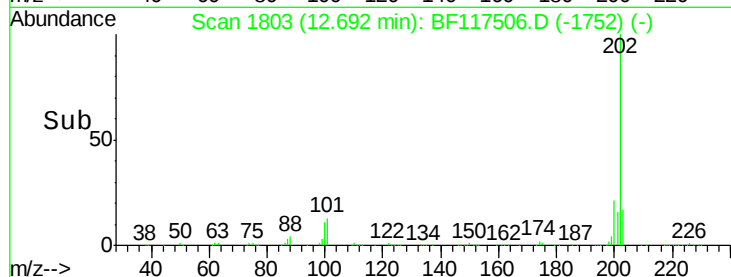
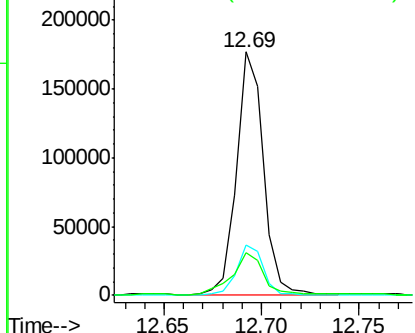
#78  
 Pyrene  
 Concen: 21.545 ng  
 RT: 12.69 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: BF117506.D  
 Acq: 24 Oct 2019 1:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-102219

Tgt Ion: 202 Resp: 168721  
 Ion Ratio Lower Upper  
 202 100  
 200 20.8 16.2 24.2  
 203 17.6 14.0 21.0

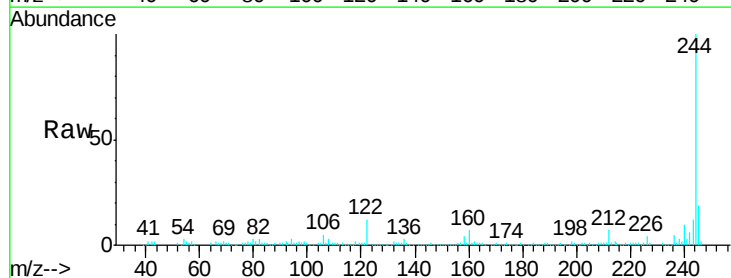


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

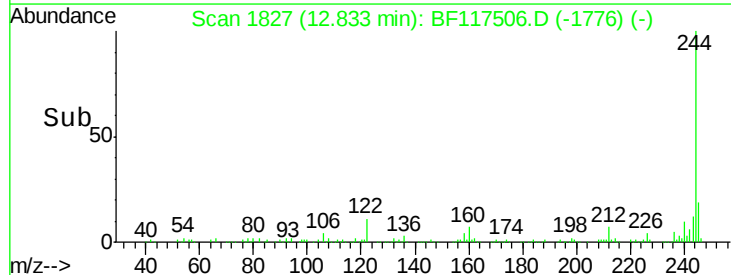
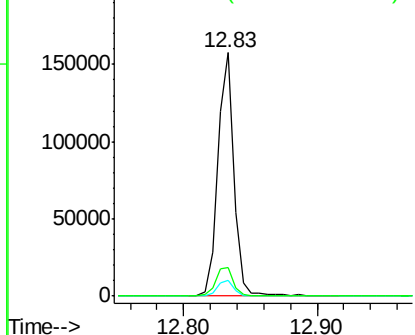


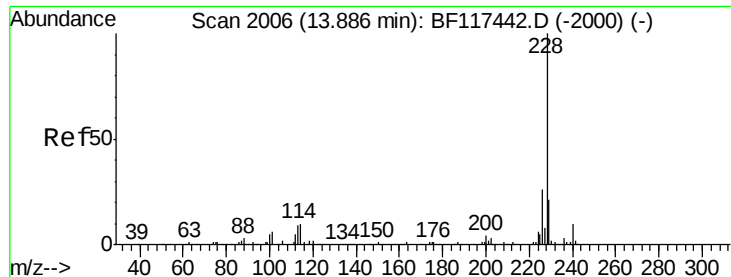
#79  
 Terphenyl-d14  
 Concen: 23.953 ng  
 RT: 12.83 min Scan# 1827  
 Delta R.T. 0.00 min  
 Lab File: BF117506.D  
 Acq: 24 Oct 2019 1:37

Tgt Ion: 244 Resp: 133887  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.8 8.6  
 122 11.6 11.8 17.8#



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: 10.783 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

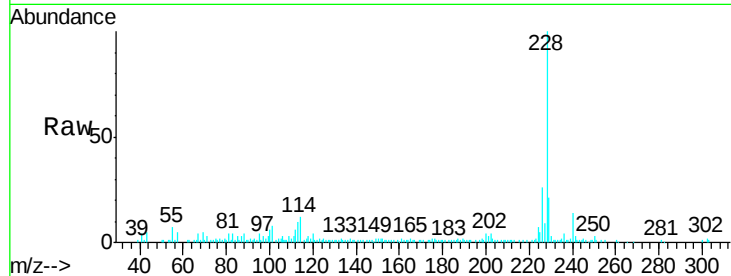
Tgt Ion:228 Resp: 66311

Ion Ratio Lower Upper

228 100

226 25.9 21.0 31.4

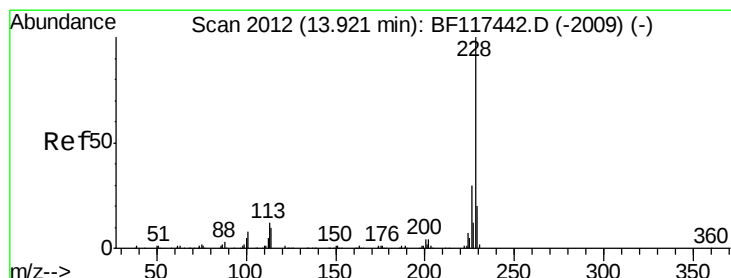
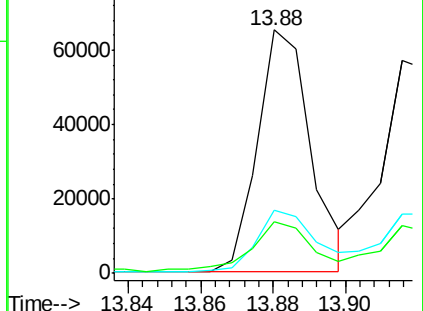
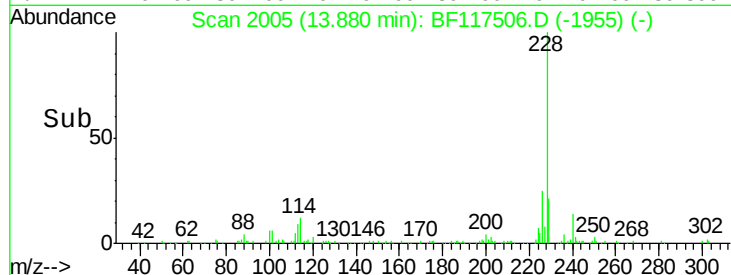
229 21.4 16.4 24.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 10.479 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

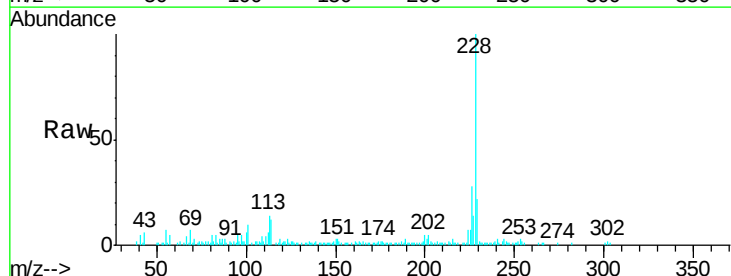
Tgt Ion:228 Resp: 63162

Ion Ratio Lower Upper

228 100

226 27.7 23.9 35.9

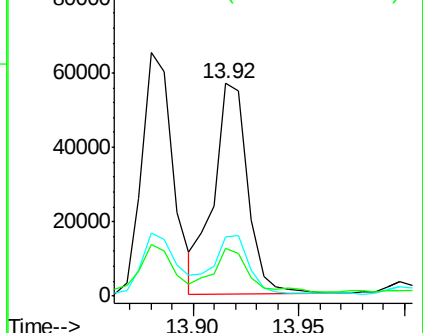
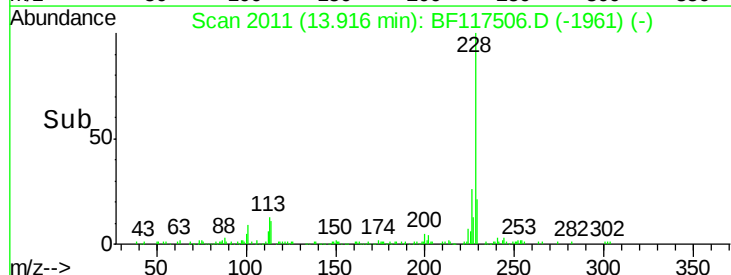
229 22.3 15.8 23.6

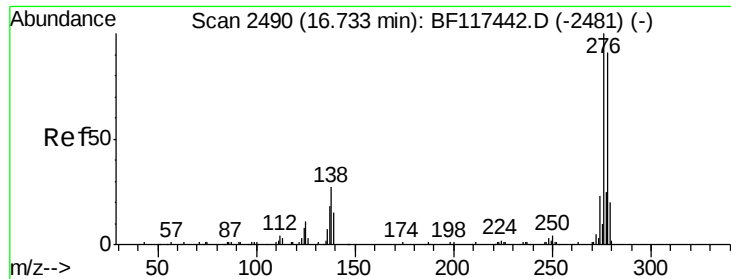


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

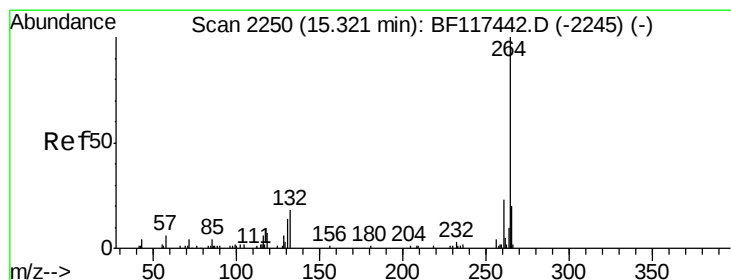
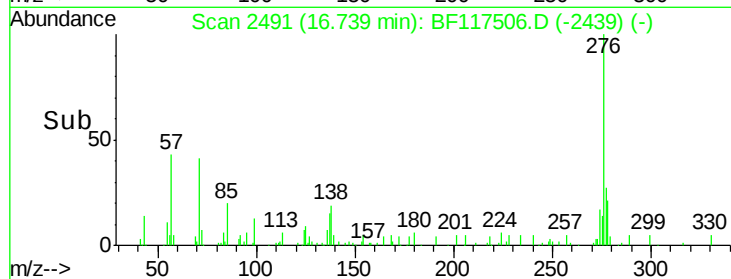
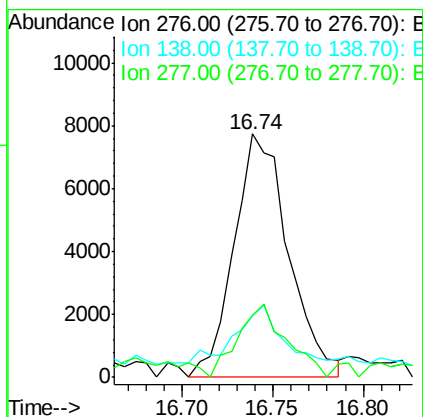
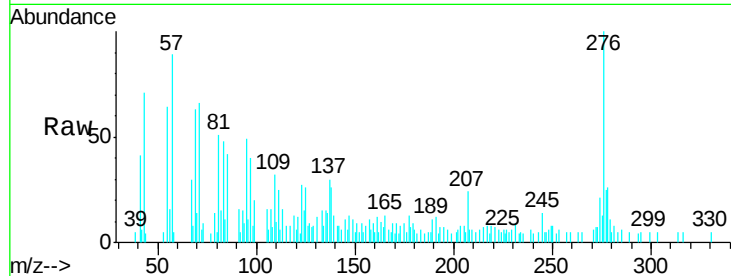




#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.602 ng  
 RT: 16.74 min Scan# 2491  
 Delta R.T. 0.01 min  
 Lab File: BF117506.D  
 Acq: 24 Oct 2019 1:37

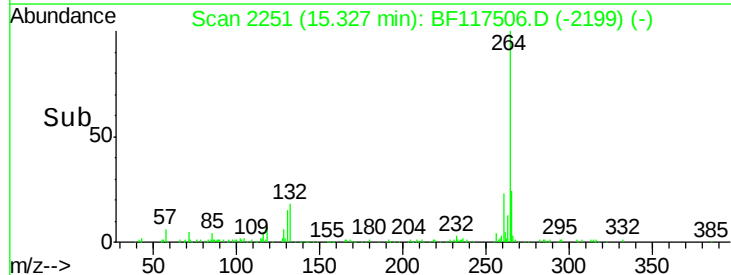
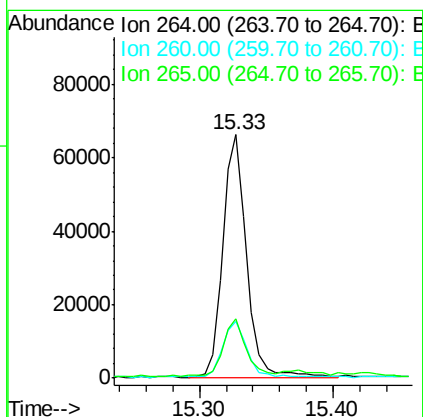
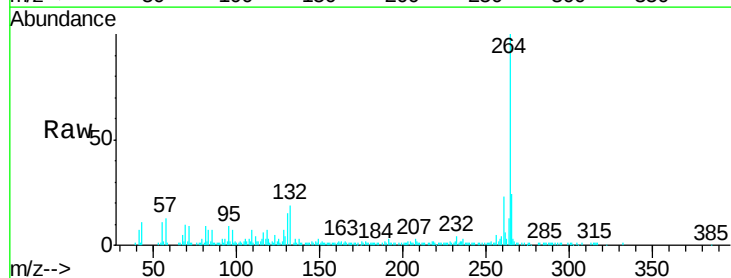
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-102219

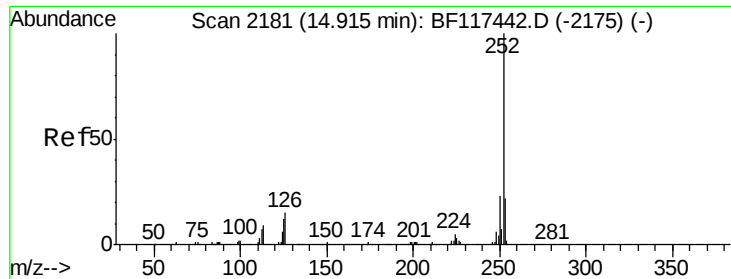
Tgt Ion: 276 Resp: 16210  
 Ion Ratio Lower Upper  
 276 100  
 138 19.7 21.8 32.8#  
 277 26.4 20.0 30.0



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.33 min Scan# 2251  
 Delta R.T. 0.01 min  
 Lab File: BF117506.D  
 Acq: 24 Oct 2019 1:37

Tgt Ion: 264 Resp: 83920  
 Ion Ratio Lower Upper  
 264 100  
 260 23.1 18.4 27.6  
 265 24.4 16.1 24.1#

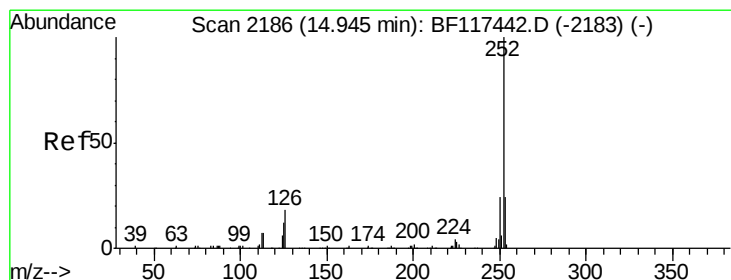
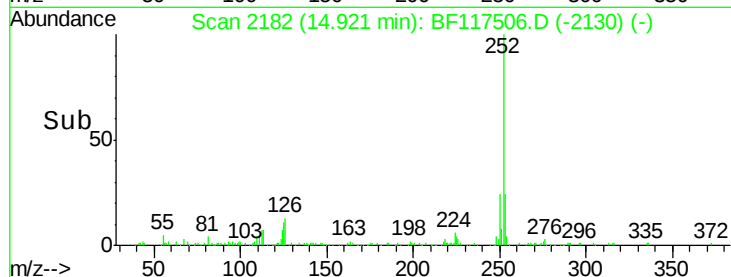
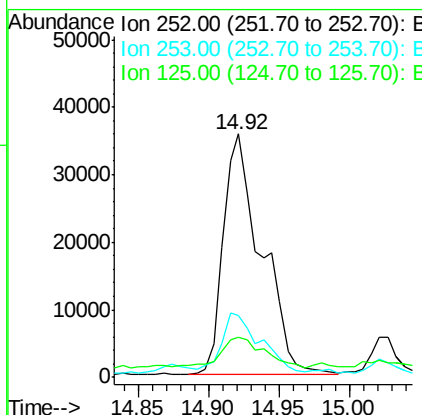
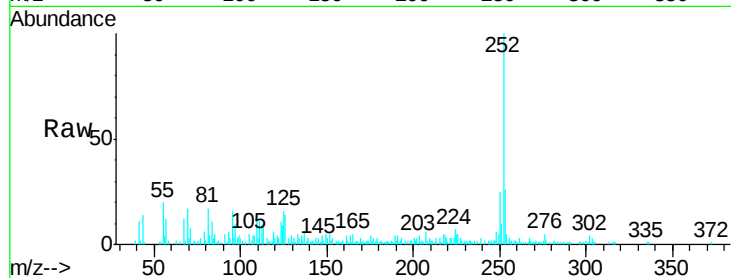




#88  
Benzo(b)fluoranthene  
Concen: 13.547 ng  
RT: 14.92 min Scan# 2182  
Delta R.T. 0.01 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

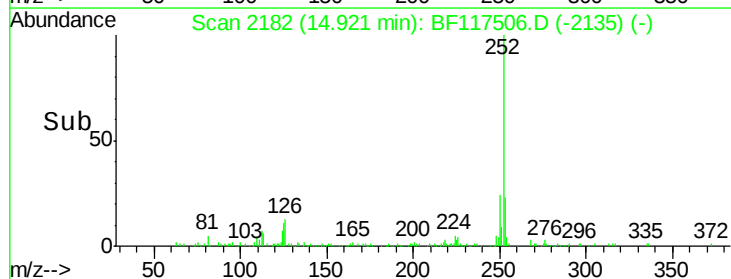
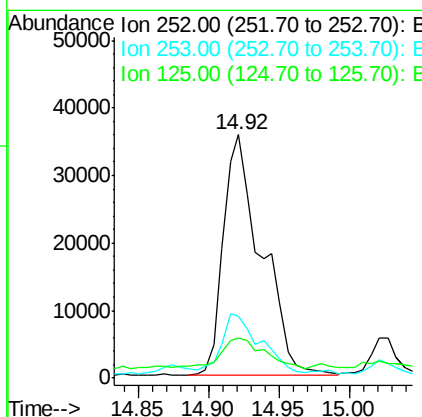
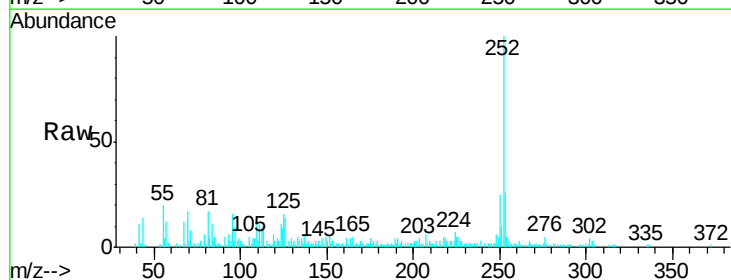
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-102219

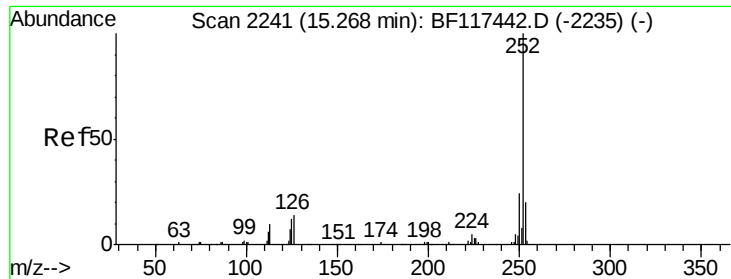
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 17.8  | 26.6  |
| 125     | 16.4  | 9.9   | 14.9# |



#89  
Benzo(k)fluoranthene  
Concen: 13.217 ng  
RT: 14.92 min Scan# 2182  
Delta R.T. -0.02 min  
Lab File: BF117506.D  
Acq: 24 Oct 2019 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 18.0  | 27.0  |
| 125     | 16.4  | 8.9   | 13.3# |





#90

Benzo(a)pyrene

Concen: 8.105 ng

RT: 15.27 min Scan# 2241

Delta R.T. 0.00 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

Instrument :

BNA\_F

ClientSampleId :

SU-03-102219

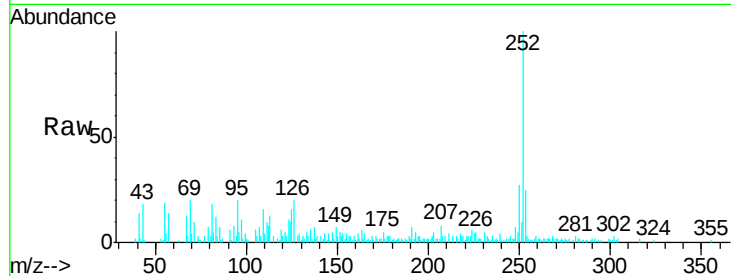
Tgt Ion:252 Resp: 36517

Ion Ratio Lower Upper

252 100

253 25.5 16.3 24.5#

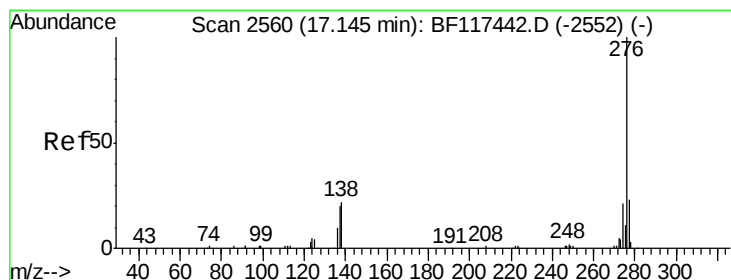
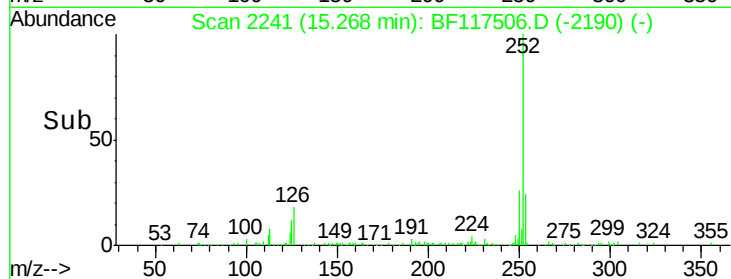
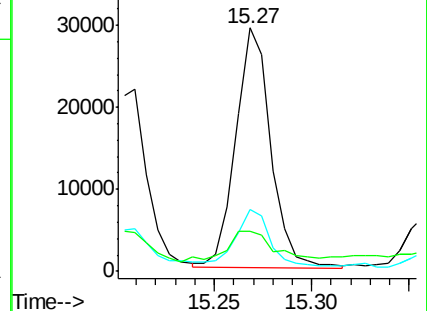
125 16.5 9.2 13.8#



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



#92

Benzo(g,h,i)perylene

Concen: 4.349 ng

RT: 17.17 min Scan# 2565

Delta R.T. 0.03 min

Lab File: BF117506.D

Acq: 24 Oct 2019 1:37

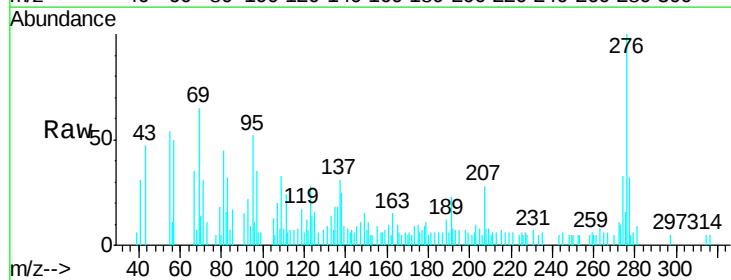
Tgt Ion:276 Resp: 16030

Ion Ratio Lower Upper

276 100

277 32.4 18.4 27.6#

138 24.9 17.8 26.6



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

