

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092220\  
 Data File : BF121664.D  
 Acq On : 23 Sep 2020 3:35  
 Operator : JU/CG  
 Sample : L4104-07  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PAV-092120-DP

Quant Time: Sep 23 05:25:07 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 22 17:53:26 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 153090   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 581631   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.85  | 164  | 283887   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 426055   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.97 | 240  | 284022   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.44 | 264  | 299518   | 20.00 | ng    | 0.01     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.43  | 112 | 804205  | 78.07 | ng | 0.00 |
| 7) Phenol-d6             | 6.45  | 99  | 1042421 | 77.13 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.37  | 82  | 704272  | 65.01 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.64 | 330 | 260076  | 73.71 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.17  | 172 | 1203963 | 64.23 | ng | 0.00 |
| 79) Terphenyl-d14        | 12.92 | 244 | 814254  | 58.08 | ng | 0.00 |

## Target Compounds

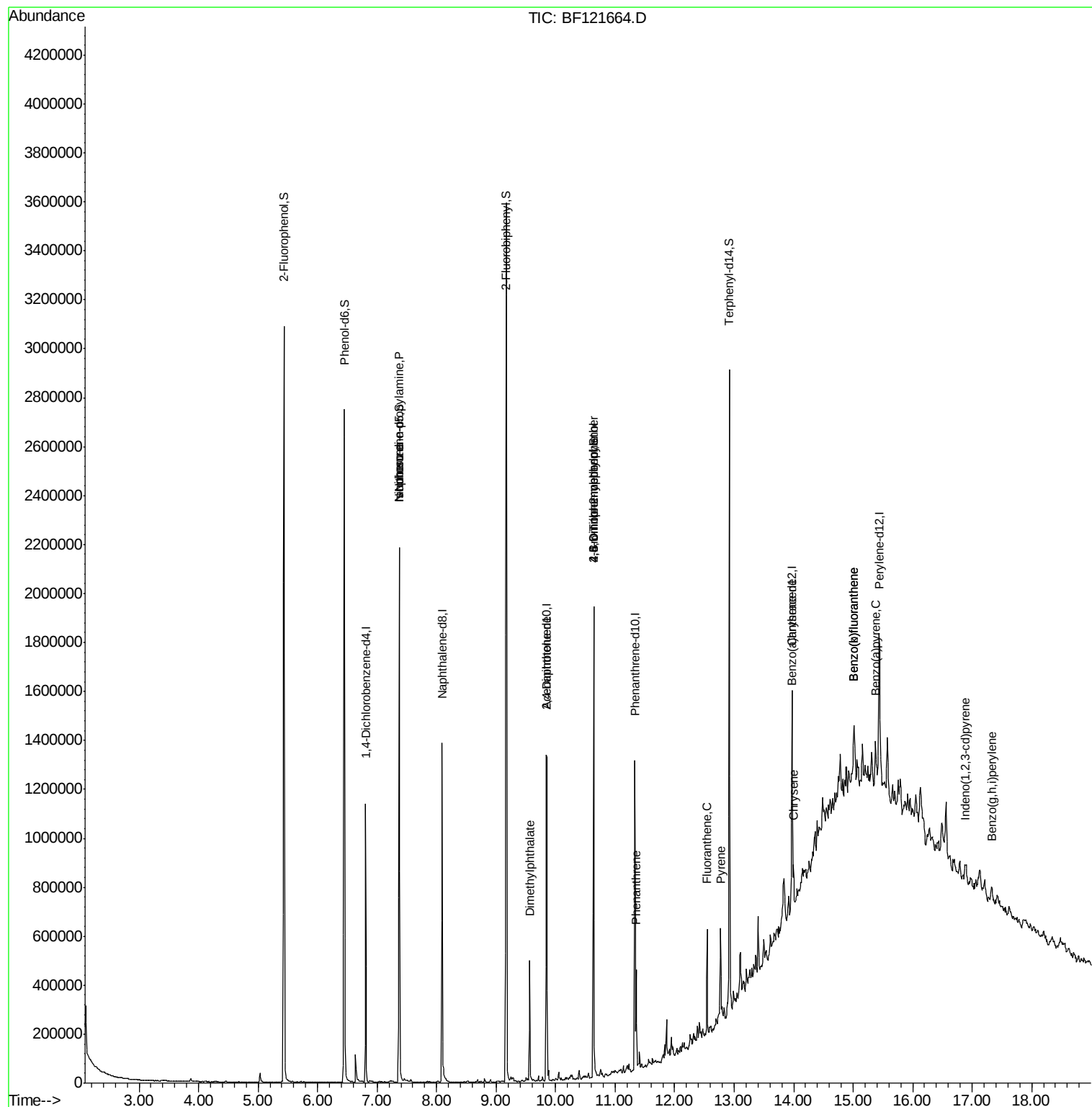
|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70  | 94105  | 12.082 | ng | # 79   |
| 25) Isophorone                 | 7.37  | 82  | 699701 | 32.087 | ng | # 67   |
| 50) Dimethylphthalate          | 9.56  | 163 | 183245 | 8.906  | ng | 100    |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165 | 37176  | 6.744  | ng | # 24   |
| 65) 4,6-Dinitro-2-methylphenol | 10.63 | 198 | 404    | 6.985  | ng | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248 | 15252  | 3.144  | ng | # 1    |
| 71) Phenanthrene               | 11.36 | 178 | 134933 | 5.813  | ng | 98     |
| 75) Fluoranthene               | 12.54 | 202 | 159789 | 6.448  | ng | 100    |
| 78) Pyrene                     | 12.77 | 202 | 150529 | 7.254  | ng | 98     |
| 81) Benzo(a)anthracene         | 13.96 | 228 | 87435  | 4.866  | ng | # 92   |
| 83) Chrysene                   | 14.00 | 228 | 78186  | 4.297  | ng | # 94   |
| 87) Indeno(1,2,3-cd)pyrene     | 16.89 | 276 | 41147  | 2.110  | ng | 99     |
| 88) Benzo(b)fluoranthene       | 15.01 | 252 | 118676 | 5.927  | ng | # 87   |
| 89) Benzo(k)fluoranthene       | 15.01 | 252 | 118676 | 6.472  | ng | # 86   |
| 90) Benzo(a)pyrene             | 15.37 | 252 | 76491  | 4.494  | ng | # 84   |
| 92) Benzo(g,h,i)perylene       | 17.33 | 276 | 45243  | 2.835  | ng | # 87   |

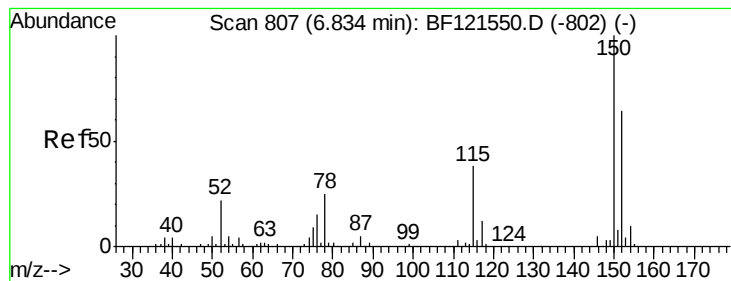
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4104-07  
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PAV-092120-DP

Quant Time: Sep 23 05:25:07 2020  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 22 17:53:26 2020  
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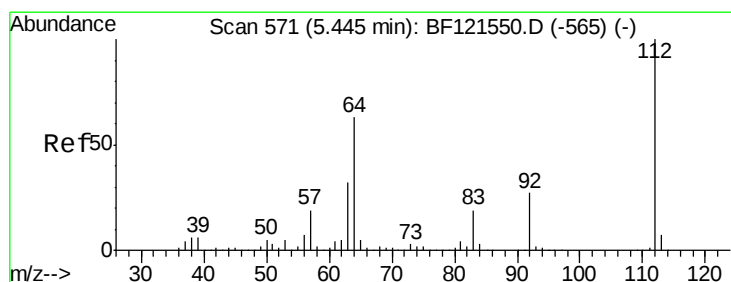
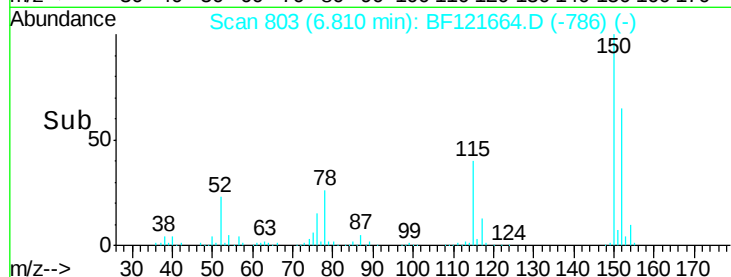
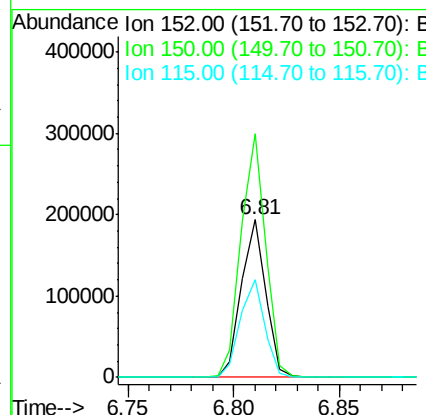
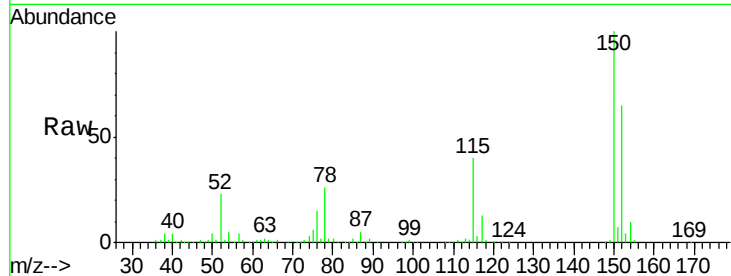


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.00 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

Instrument :  
BNA\_F  
ClientSampleId :  
PAV-092120-DP

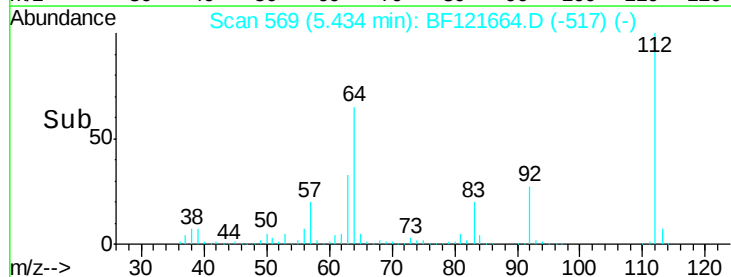
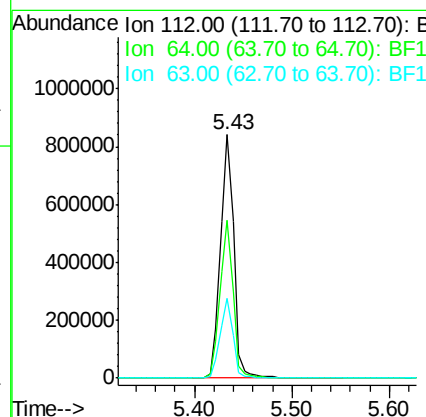
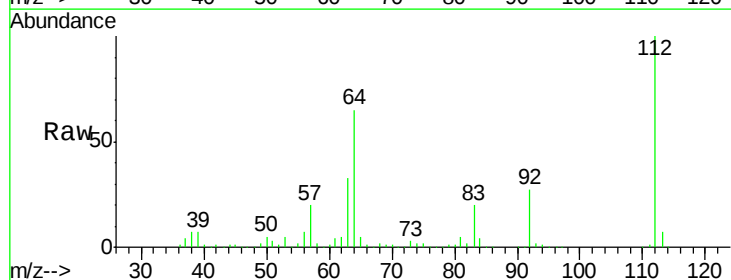
Tot Ion:152 Resp: 153090  
Ion Ratio Lower Upper  
152 100  
150 154.7 128.1 192.1  
115 61.9 52.6 79.0



#5

2-Fluorophenol  
Concen: 78.068 ng  
RT: 5.43 min Scan# 569  
Delta R.T. 0.01 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

Tgt Ion:112 Resp: 804205  
Ion Ratio Lower Upper  
112 100  
64 65.0 52.2 78.2  
63 32.9 26.6 39.8





#7

Phenol-d6

Concen: 77.133 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

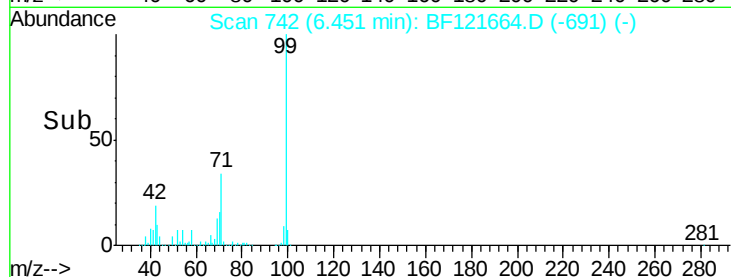
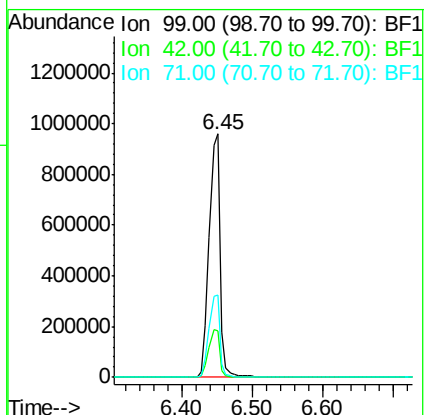
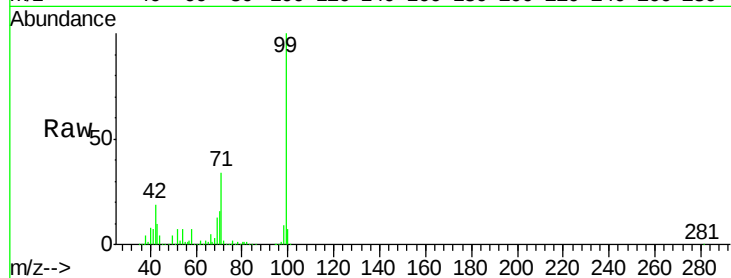
Tot Ion: 99 Resp: 1042421

Ion Ratio Lower Upper

99 100

42 19.0 15.5 23.3

71 33.7 27.4 41.2



#19

n-Nitroso-di-n-propylamine

Concen: 12.082 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Tgt Ion: 70 Resp: 94105

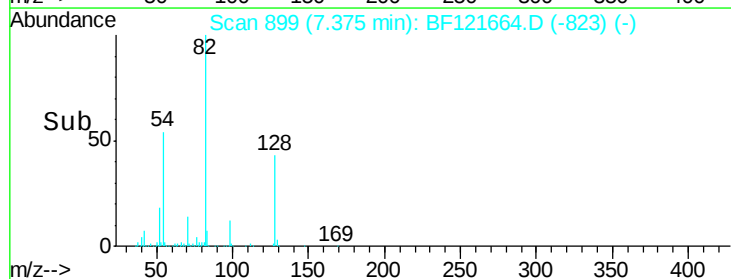
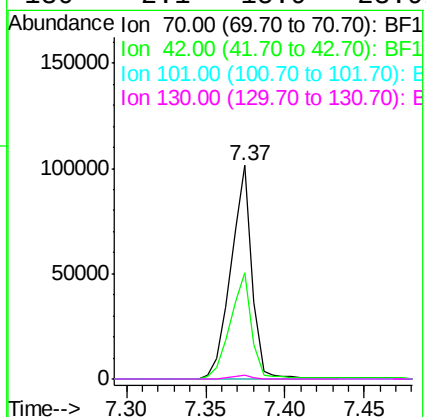
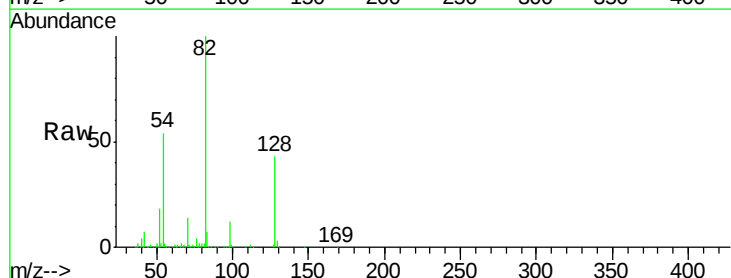
Ion Ratio Lower Upper

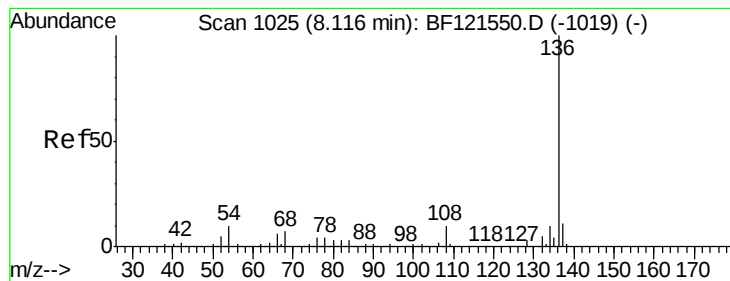
70 100

42 49.9 48.3 72.5

101 0.0 7.6 11.4#

130 2.1 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

Tot Ion:136 Resp: 581631

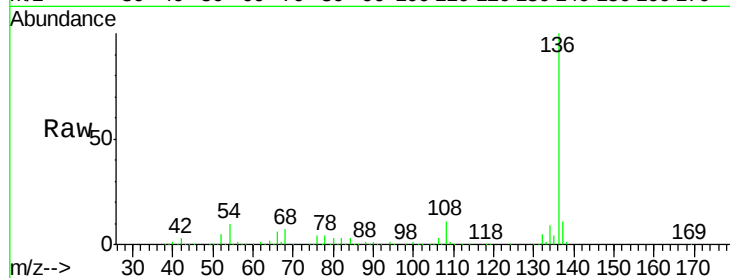
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.6 7.4 11.0

68 6.9 5.3 7.9

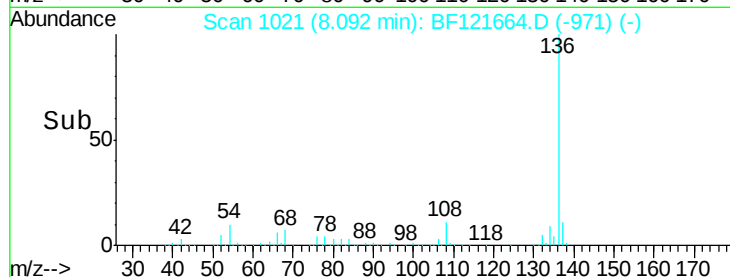


Abundance Ion 136.00 (135.70 to 136.70): E

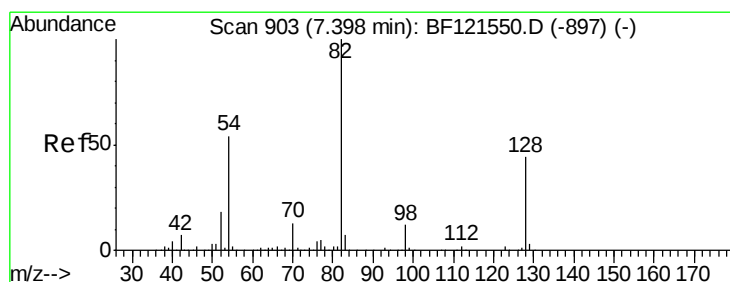
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



Time-->



#23

Nitrobenzene-d5

Concen: 65.013 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.01 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

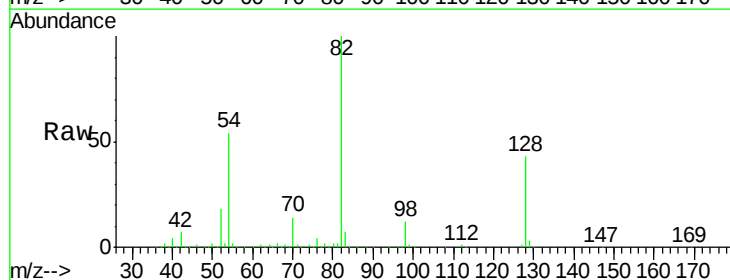
Tgt Ion: 82 Resp: 704272

Ion Ratio Lower Upper

82 100

128 43.4 33.9 50.9

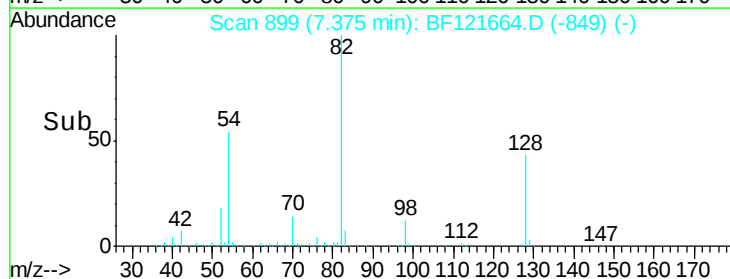
54 54.1 42.9 64.3



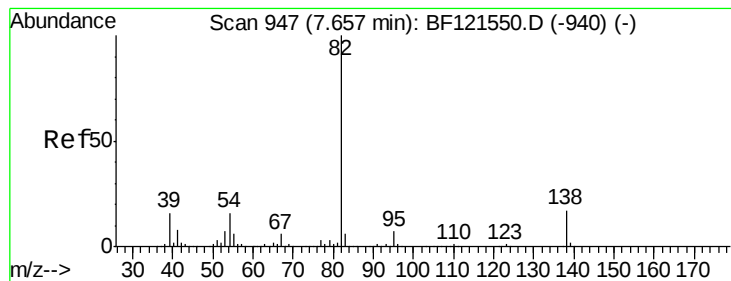
Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



Time-->



#25

Isophorone

Concen: 32.087 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

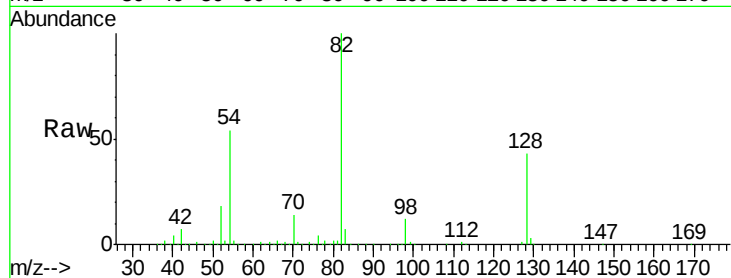
Tot Ion: 82 Resp: 699701

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 13.2 19.8#



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

7.37

800000

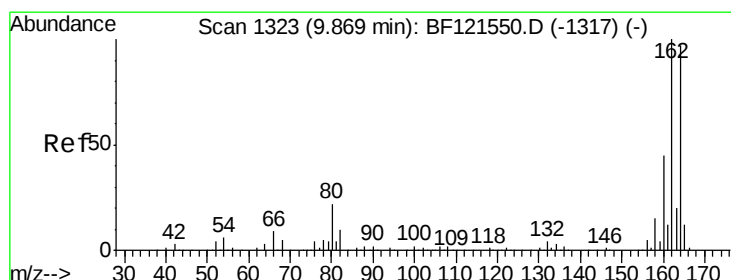
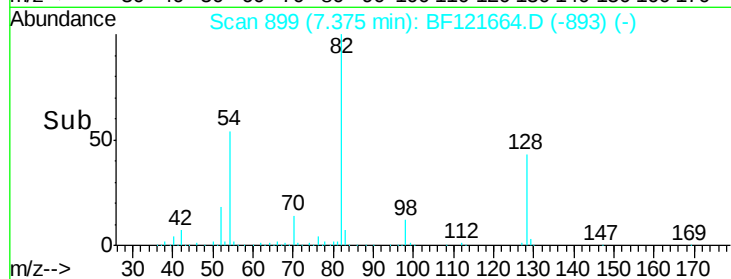
600000

400000

200000

0

Time--> 7.30 7.40 7.50



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.00 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

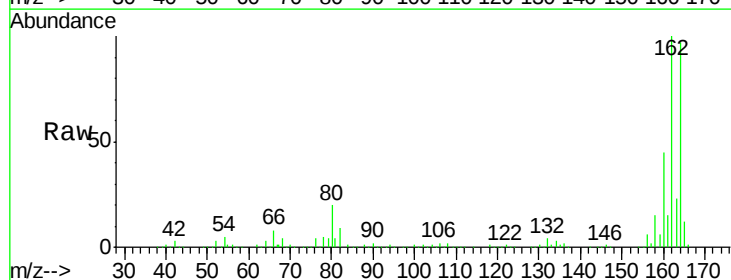
Tgt Ion: 164 Resp: 283887

Ion Ratio Lower Upper

164 100

162 102.8 81.2 121.8

160 46.0 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

9.85

400000

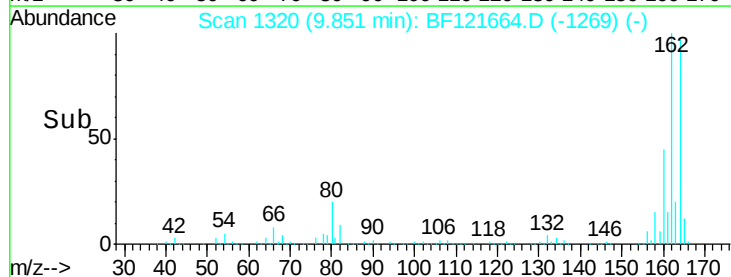
300000

200000

100000

0

Time--> 9.80 9.85 9.90 9.95





#42

2,4,6-Tribromophenol

Concen: 73.711 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

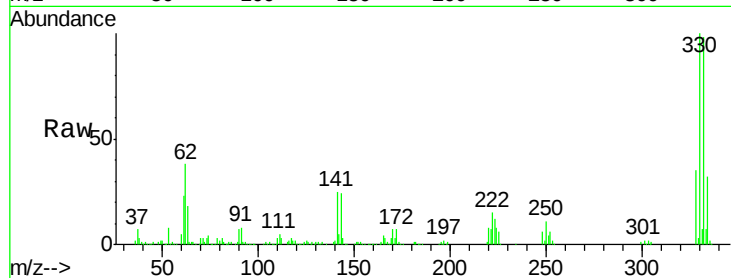
Tot Ion:330 Resp: 260076

Ion Ratio Lower Upper

330 100

332 95.4 76.9 115.3

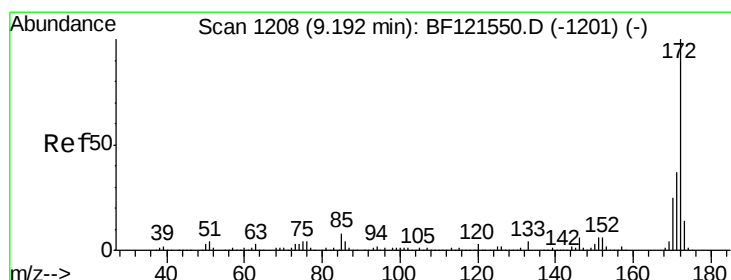
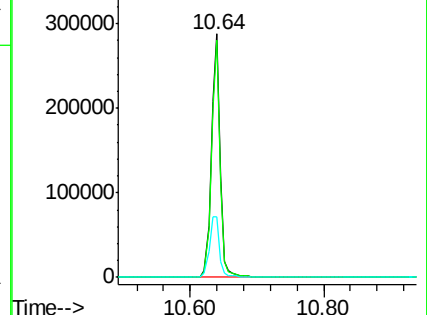
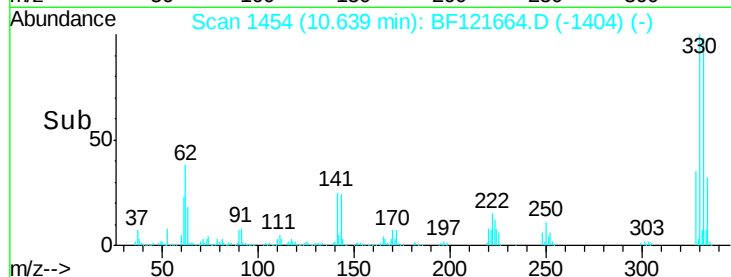
141 29.2 22.4 33.6



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: 64.231 ng

RT: 9.17 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

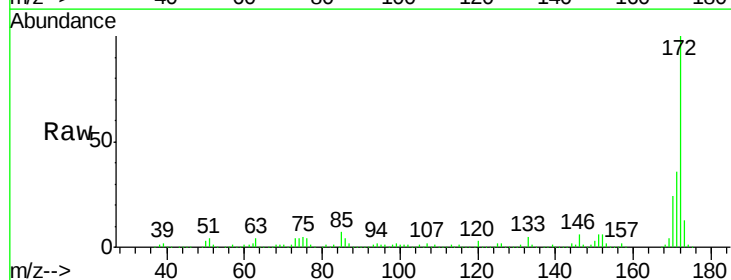
Tgt Ion:172 Resp: 1203963

Ion Ratio Lower Upper

172 100

171 35.7 29.3 43.9

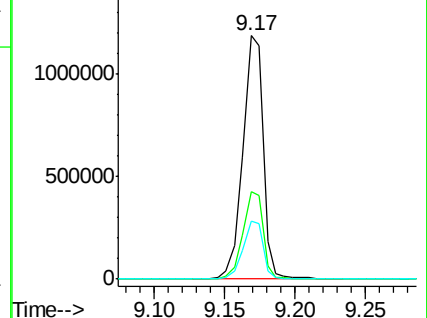
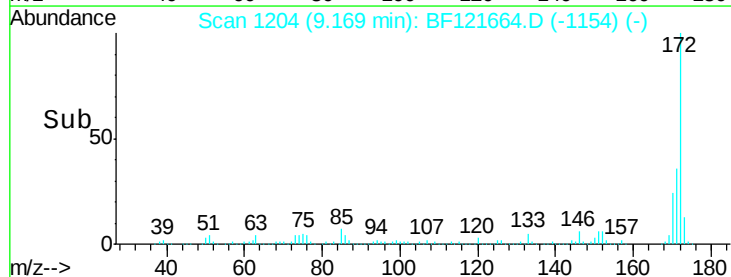
170 23.8 19.5 29.3

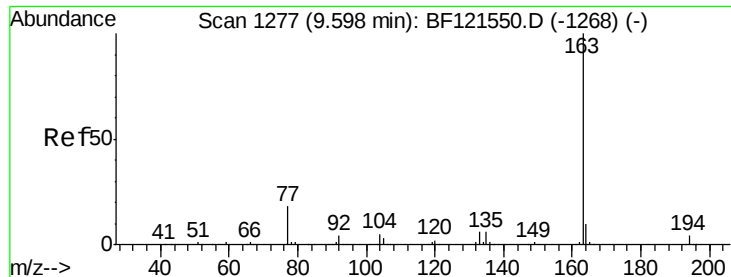


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 8.906 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

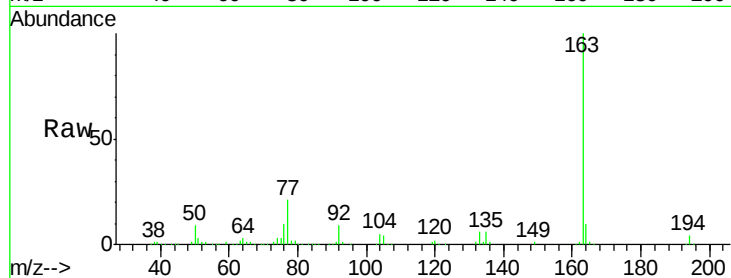
Tot Ion:163 Resp: 183245

Ion Ratio Lower Upper

163 100

194 4.0 3.3 4.9

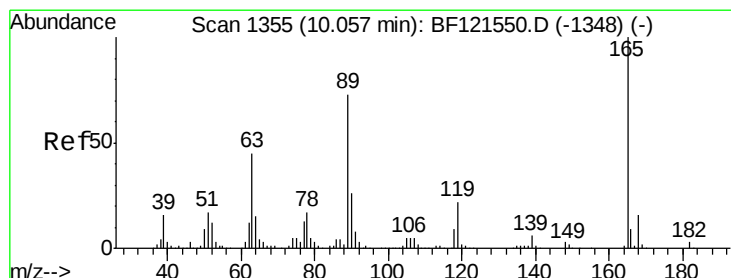
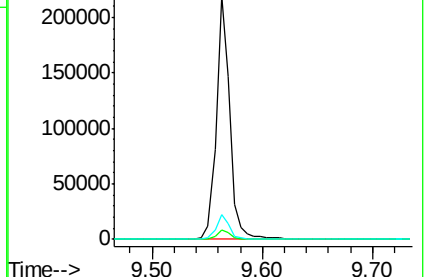
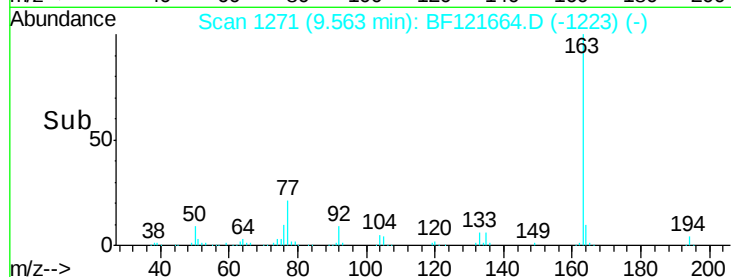
164 10.2 8.0 12.0



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



#57

2,4-Dinitrotoluene

Concen: 6.744 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.20 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Tgt Ion:165 Resp: 37176

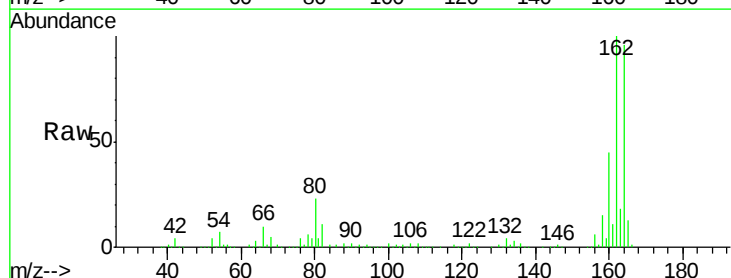
Ion Ratio Lower Upper

165 100

63 1.5 36.7 55.1#

89 1.5 57.7 86.5#

182 0.0 2.1 3.1#

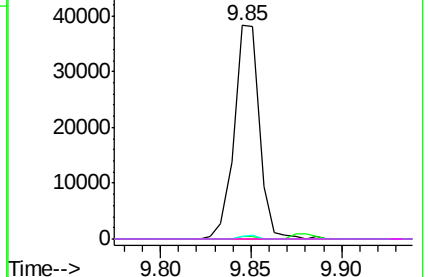
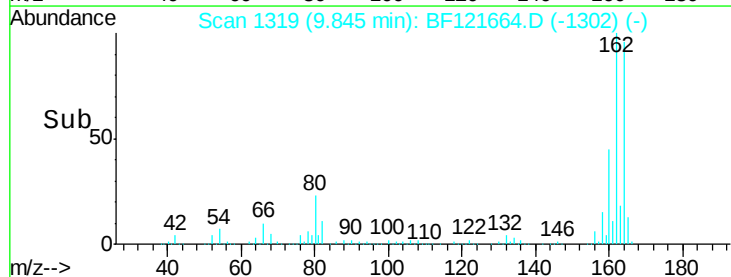


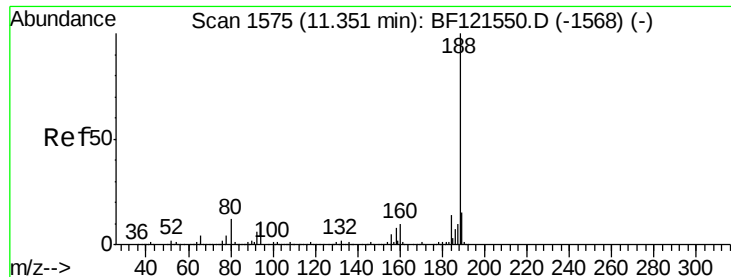
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

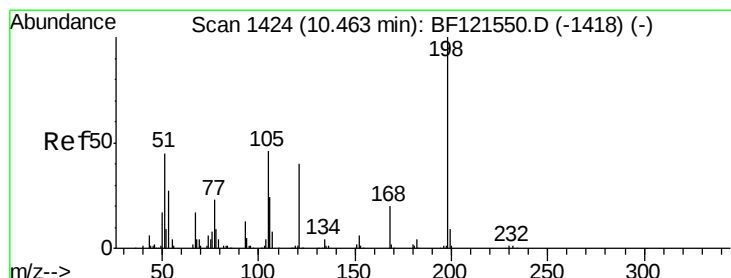
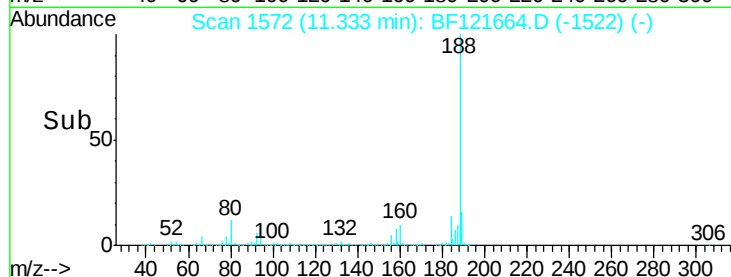
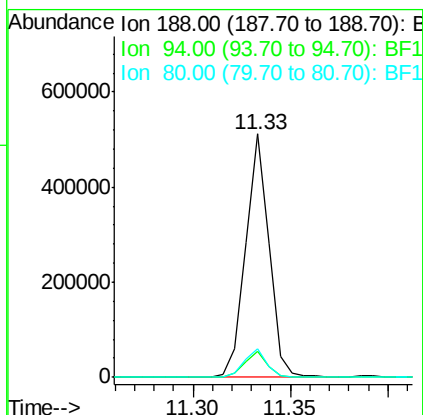
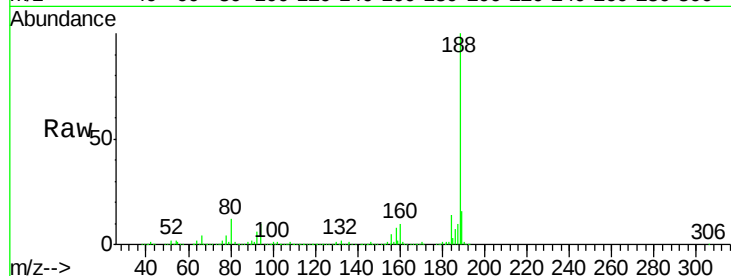




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.01 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

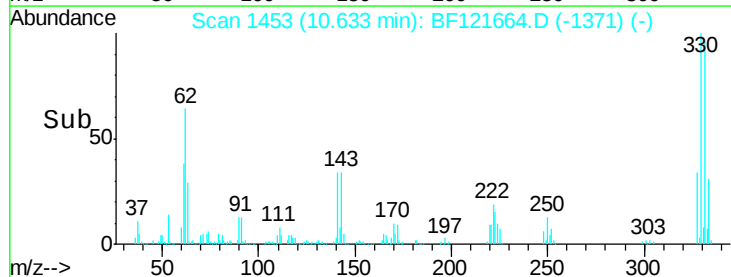
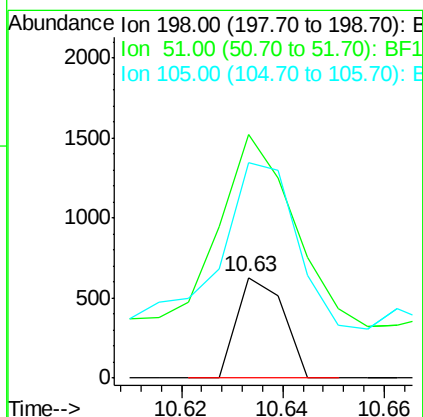
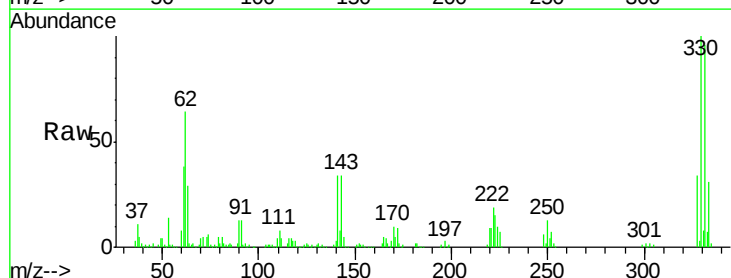
Instrument :  
BNA\_F  
ClientSampleId :  
PAV-092120-DP

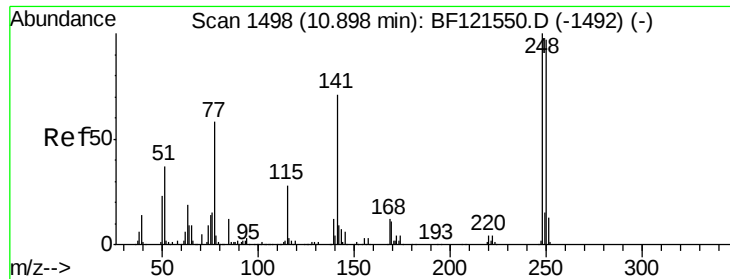
Tot Ion:188 Resp: 426055  
Ion Ratio Lower Upper  
188 100  
94 10.5 8.4 12.6  
80 11.8 9.0 13.4



#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.985 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. 0.18 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

Tgt Ion:198 Resp: 404  
Ion Ratio Lower Upper  
198 100  
51 242.4 20.3 60.3#  
105 214.8 20.2 60.2#





#67

4-Bromophenyl-phenylether

Concen: 3.144 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.24 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

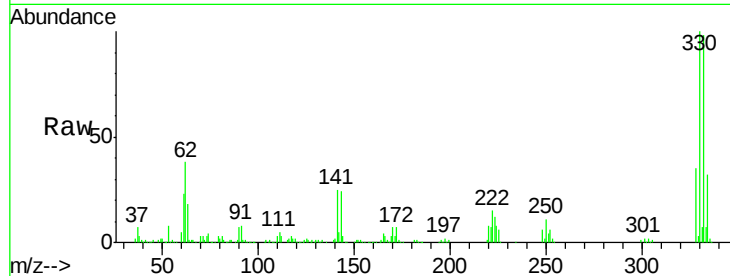
Tot Ion:248 Resp: 15252

Ion Ratio Lower Upper

248 100

250 188.2 79.4 119.0#

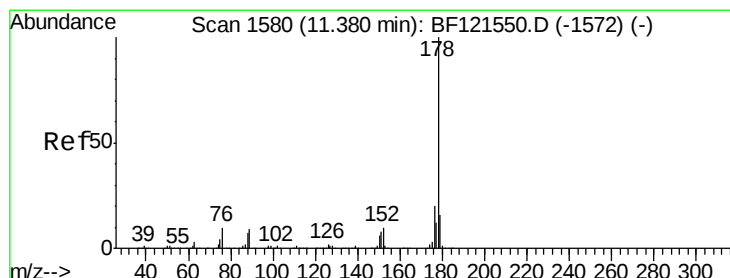
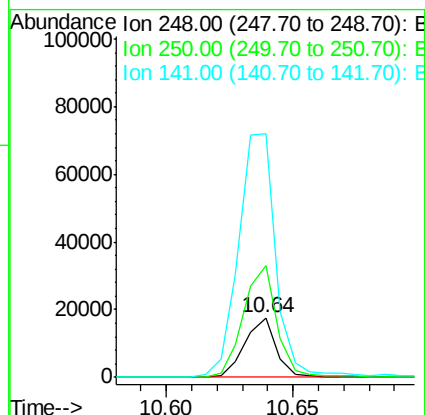
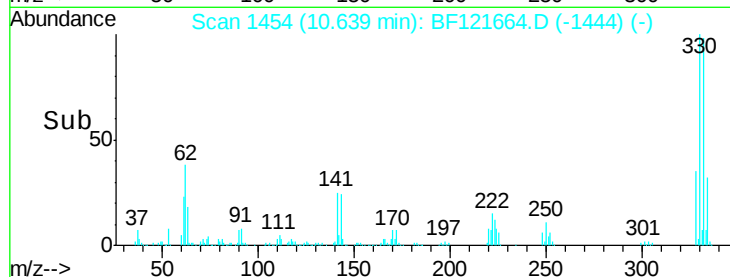
141 409.3 52.2 78.4#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#71

Phenanthrene

Concen: 5.813 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

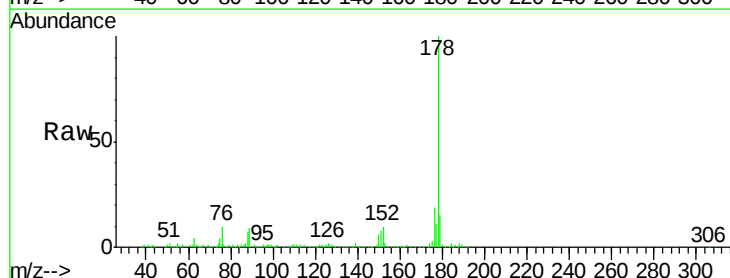
Tgt Ion:178 Resp: 134933

Ion Ratio Lower Upper

178 100

176 18.8 15.9 23.9

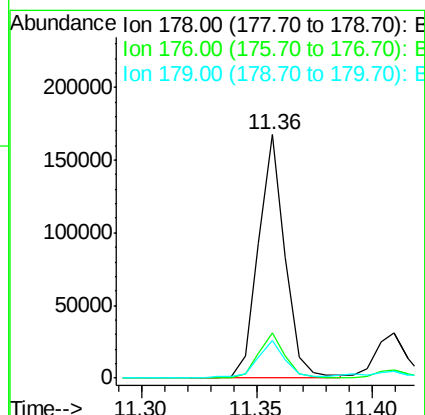
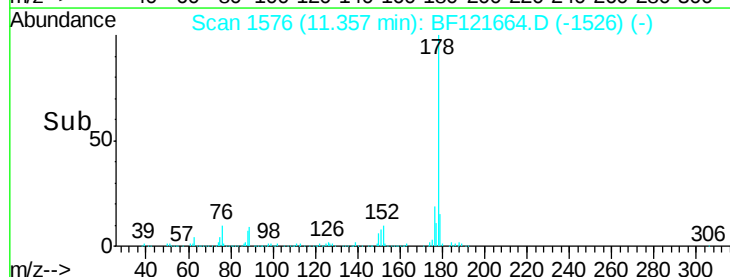
179 15.3 12.6 18.8

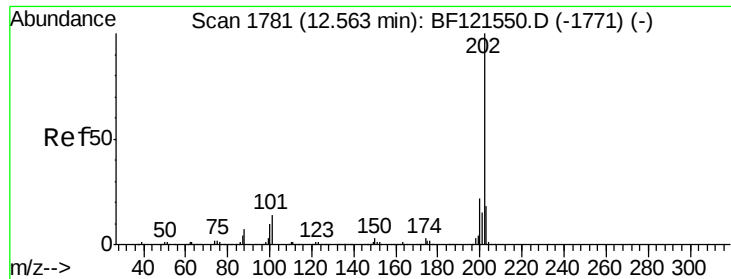


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 6.448 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

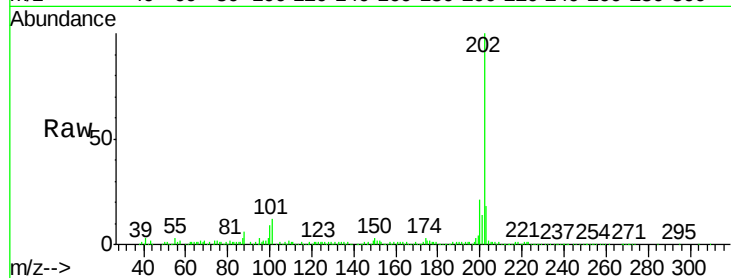
Tot Ion:202 Resp: 159789

Ion Ratio Lower Upper

202 100

101 11.7 0.0 31.9

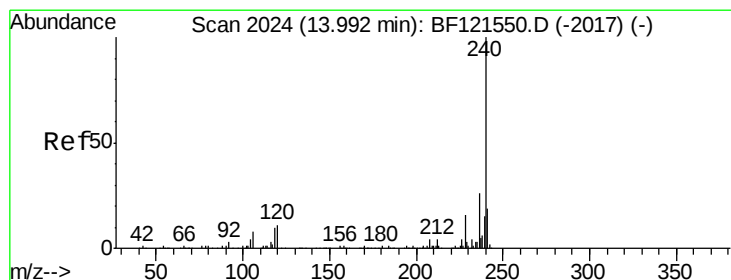
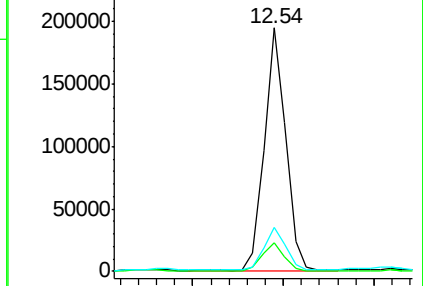
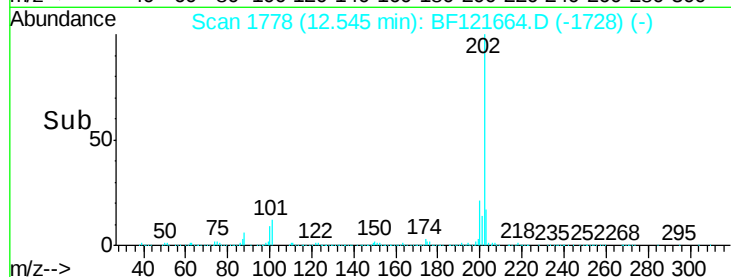
203 17.9 0.0 37.8



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: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

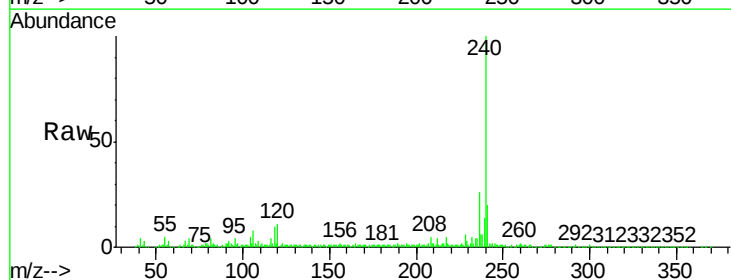
Tgt Ion:240 Resp: 284022

Ion Ratio Lower Upper

240 100

120 11.4 9.2 13.8

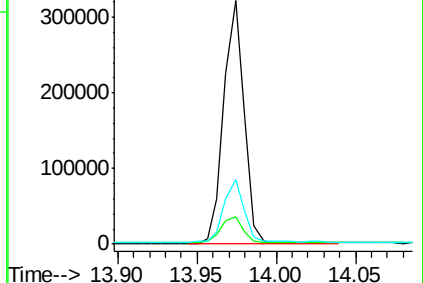
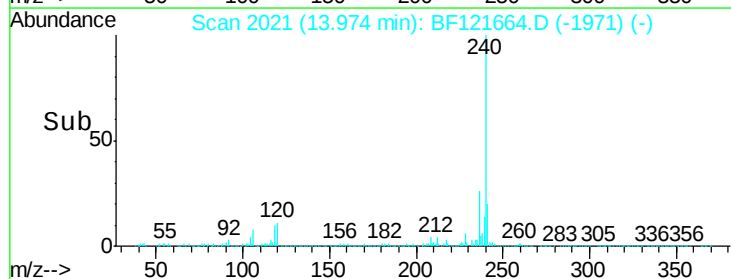
236 26.4 20.4 30.6

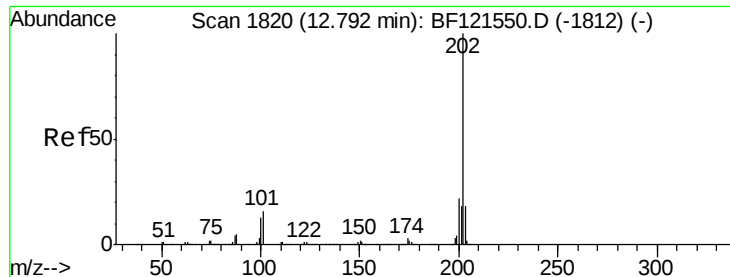


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

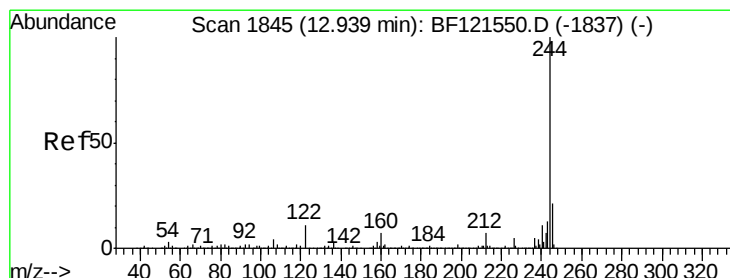
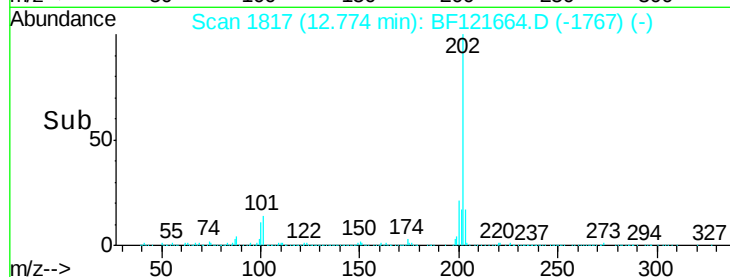
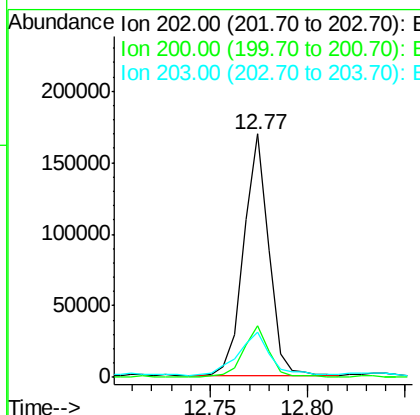
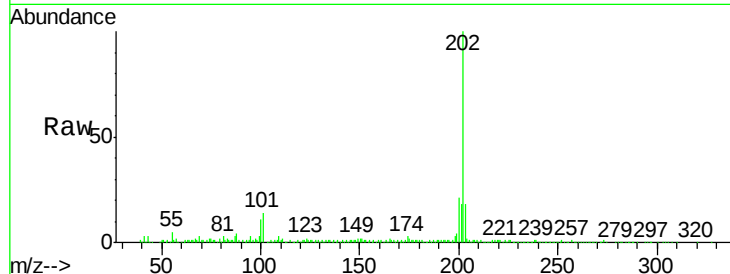




#78  
Pvrene  
Concen: 7.254 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.01 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

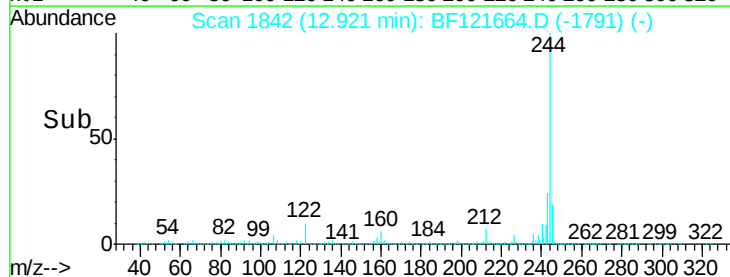
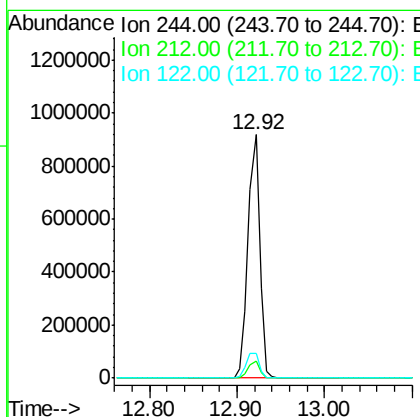
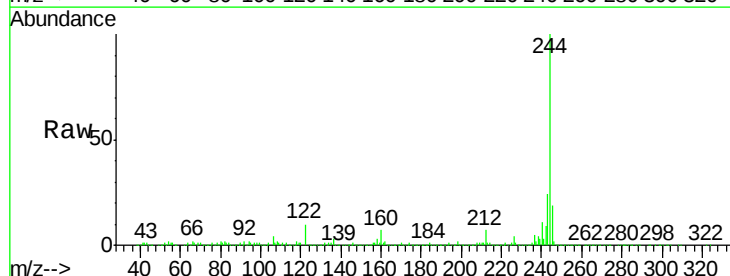
Instrument :  
BNA\_F  
ClientSampleId :  
PAV-092120-DP

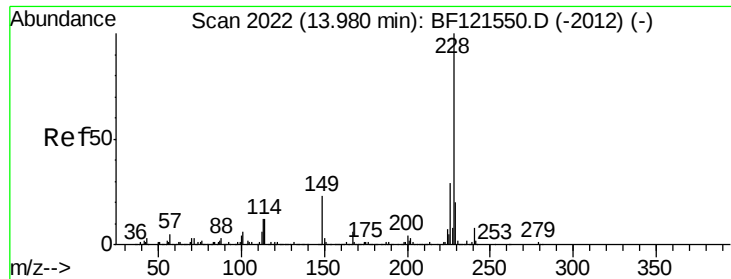
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 150529 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 200      | 21.0  | 17.8  | 26.6   |
| 203      | 18.4  | 14.4  | 21.6   |



#79  
Terphenyl-d14  
Concen: 58.080 ng  
RT: 12.92 min Scan# 1842  
Delta R.T. -0.00 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 814254 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 7.0   | 5.5   | 8.3    |
| 122      | 10.3  | 7.4   | 11.0   |

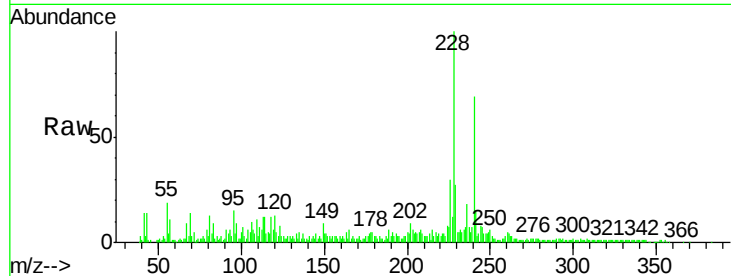




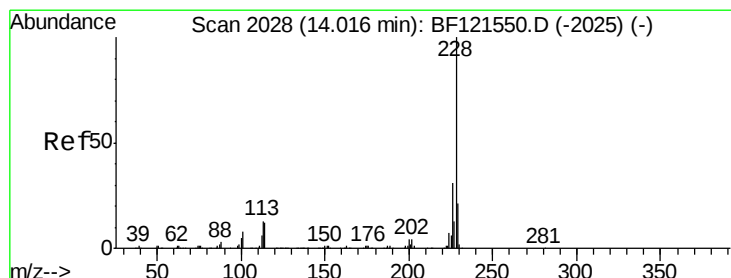
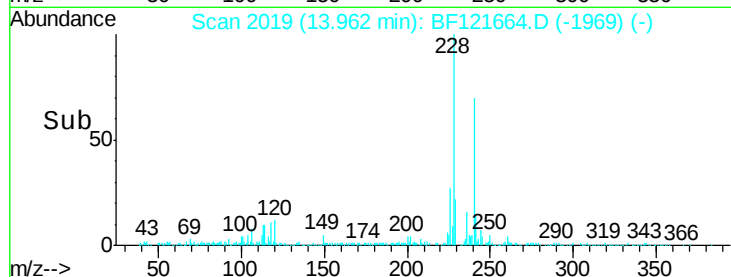
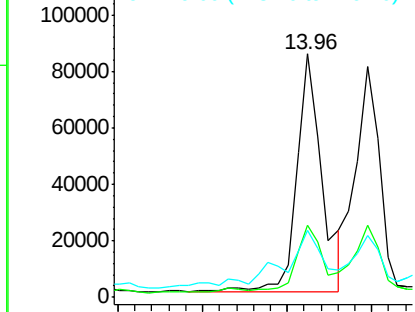
#81  
Benzo(a)anthracene  
Concen: 4.866 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.01 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

Instrument :  
BNA\_F  
ClientSampleId :  
PAV-092120-DP

Tot Ion:228 Resp: 87435  
Ion Ratio Lower Upper  
228 100  
226 29.8 22.6 33.8  
229 27.3 16.2 24.2#

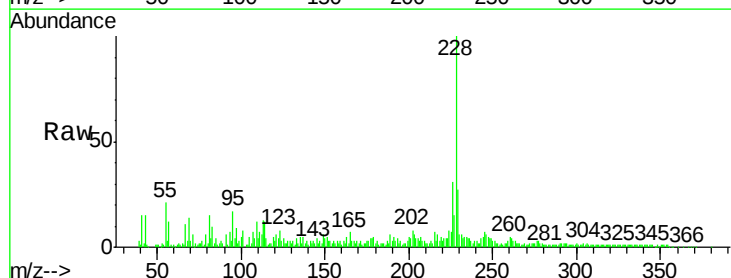


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

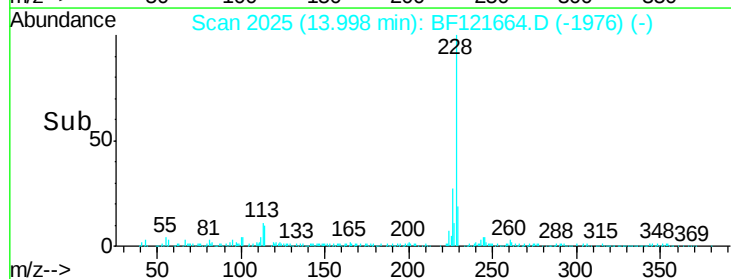
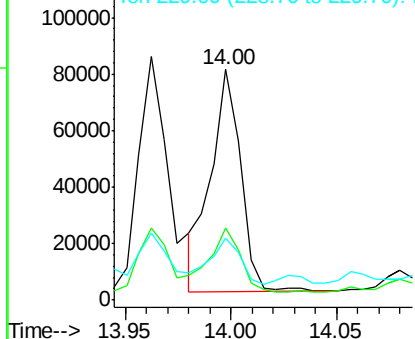


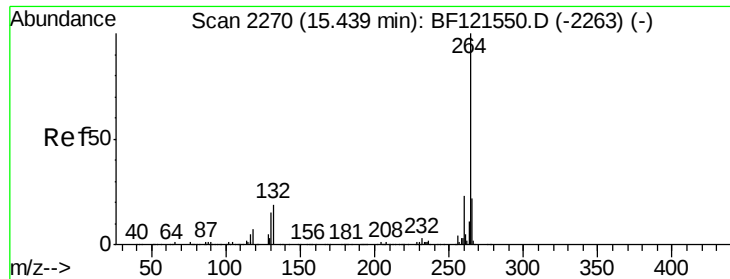
#83  
Chrysene  
Concen: 4.297 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.01 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

Tgt Ion:228 Resp: 78186  
Ion Ratio Lower Upper  
228 100  
226 31.0 25.0 37.4  
229 26.7 16.0 24.0#



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

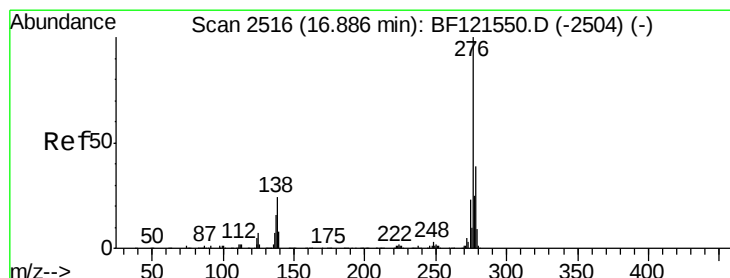
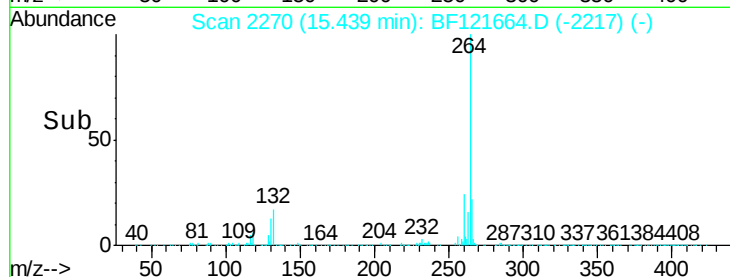
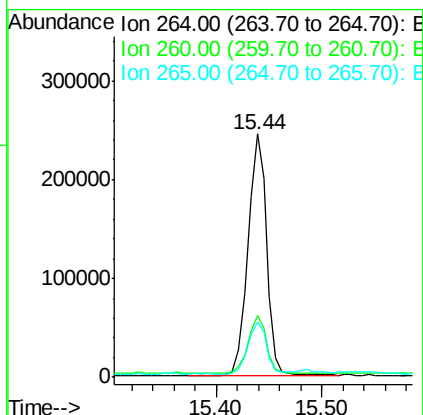
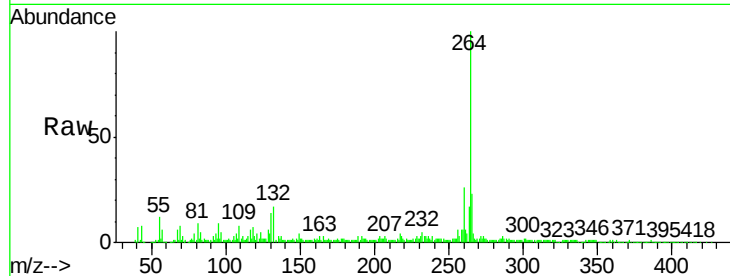




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.01 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

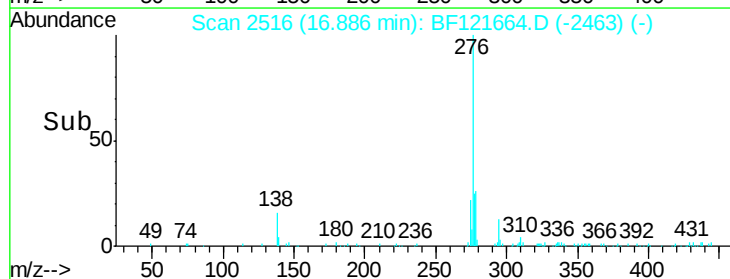
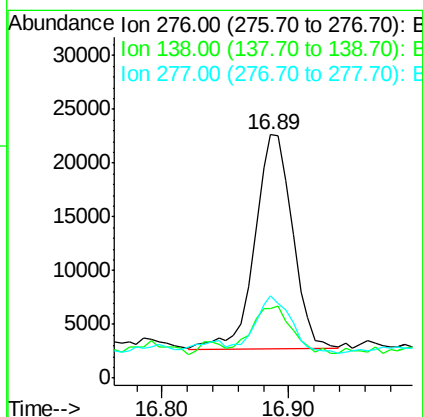
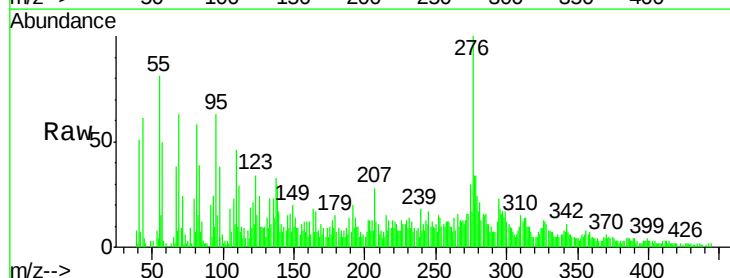
Instrument :  
BNA\_F  
ClientSampleId :  
PAV-092120-DP

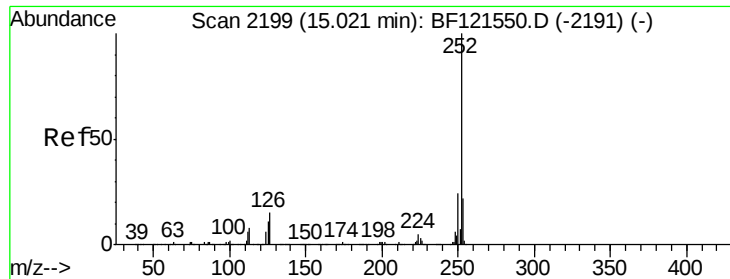
Tot Ion:264 Resp: 299518  
Ion Ratio Lower Upper  
264 100  
260 25.5 18.8 28.2  
265 22.9 17.3 25.9



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.110 ng  
RT: 16.89 min Scan# 2516  
Delta R.T. 0.01 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

Tgt Ion:276 Resp: 41147  
Ion Ratio Lower Upper  
276 100  
138 23.1 19.0 28.6  
277 25.7 20.2 30.2

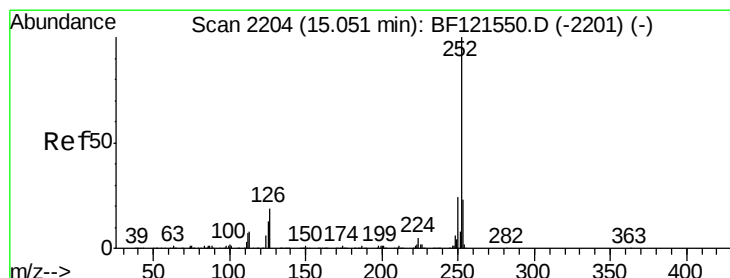
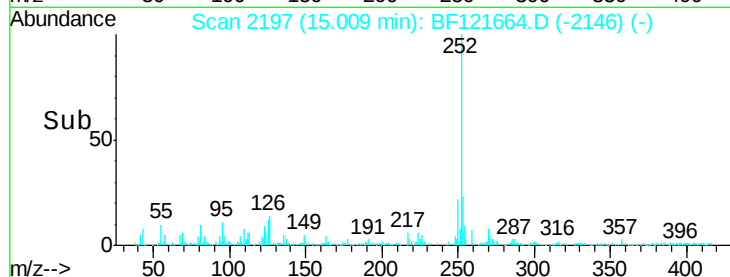
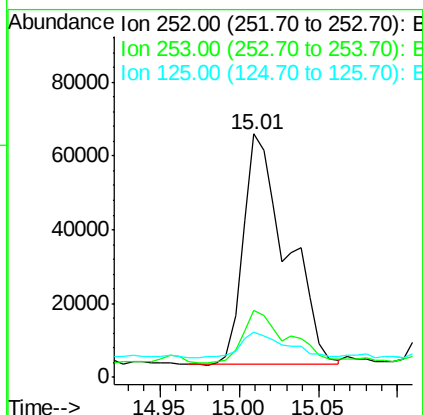
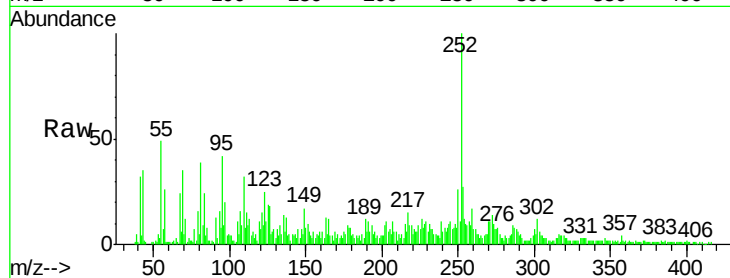




#88  
Benzo(b)fluoranthene  
Concen: 5.927 ng  
RT: 15.01 min Scan# 2197  
Delta R.T. -0.00 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

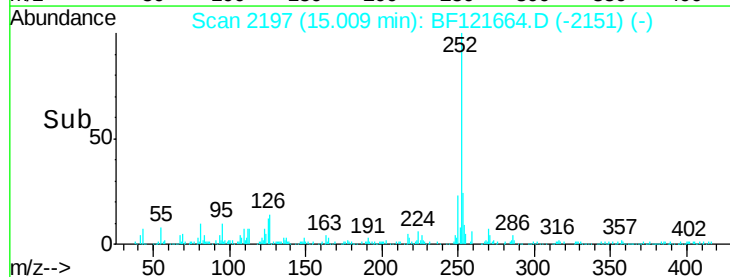
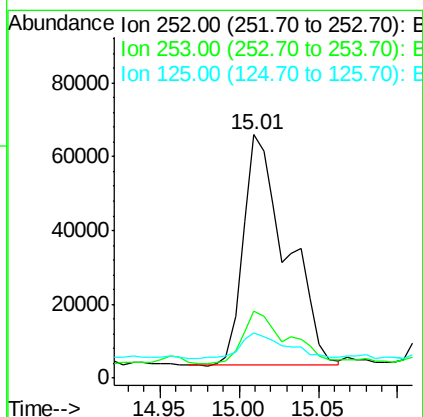
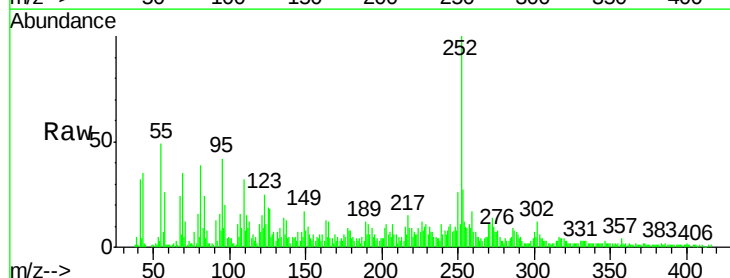
Instrument :  
BNA\_F  
ClientSampleId :  
PAV-092120-DP

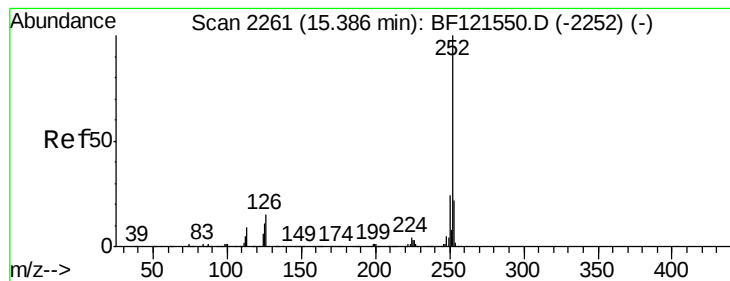
Tot Ion:252 Resp: 118676  
Ion Ratio Lower Upper  
252 100  
253 27.4 18.2 27.4#  
125 18.6 8.5 12.7#



#89  
Benzo(k)fluoranthene  
Concen: 6.472 ng  
RT: 15.01 min Scan# 2197  
Delta R.T. -0.03 min  
Lab File: BF121664.D  
Acq: 23 Sep 2020 3:35

Tgt Ion:252 Resp: 118676  
Ion Ratio Lower Upper  
252 100  
253 27.4 17.8 26.8#  
125 18.6 8.4 12.6#





#90

Benzo(a)pyrene

Concen: 4.494 ng

RT: 15.37 min Scan# 2259

Delta R.T. -0.00 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

Instrument :

BNA\_F

ClientSampleId :

PAV-092120-DP

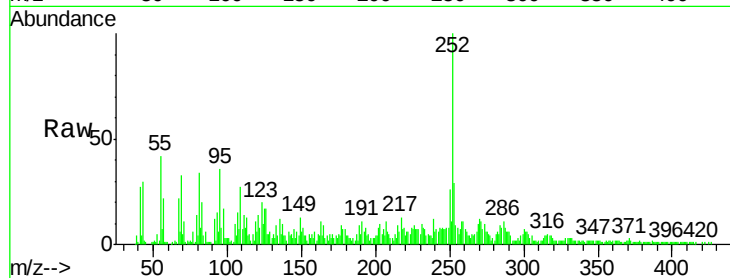
Tot Ion:252 Resp: 76491

Ion Ratio Lower Upper

252 100

253 29.1 17.4 26.2#

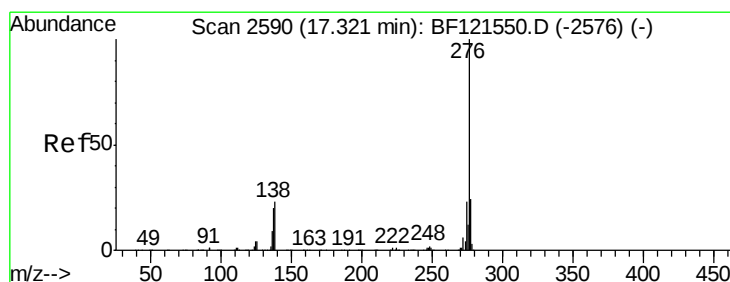
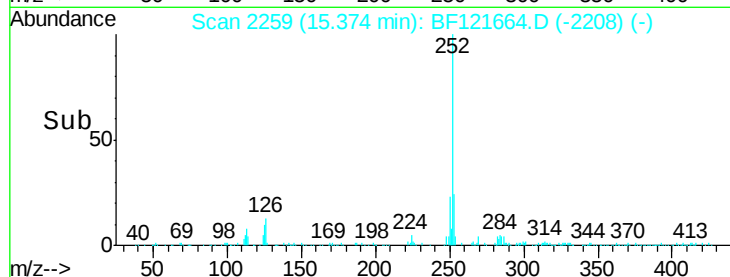
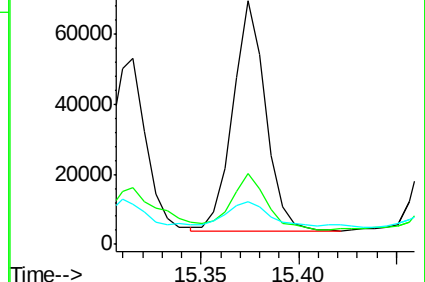
125 17.4 9.1 13.7#



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: 2.835 ng

RT: 17.33 min Scan# 2592

Delta R.T. 0.02 min

Lab File: BF121664.D

Acq: 23 Sep 2020 3:35

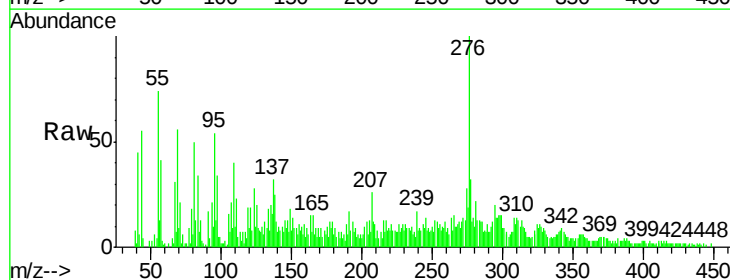
Tgt Ion:276 Resp: 45243

Ion Ratio Lower Upper

276 100

277 32.0 19.3 28.9#

138 25.4 16.9 25.3#



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

