

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF111924\  
 Data File : BF140485.D  
 Acq On : 19 Nov 2024 20:20  
 Operator : RC/JU  
 Sample : P4908-03  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2

Quant Time: Nov 20 00:11:50 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF111324.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 14:40:06 2024  
 Response via : Initial Calibration

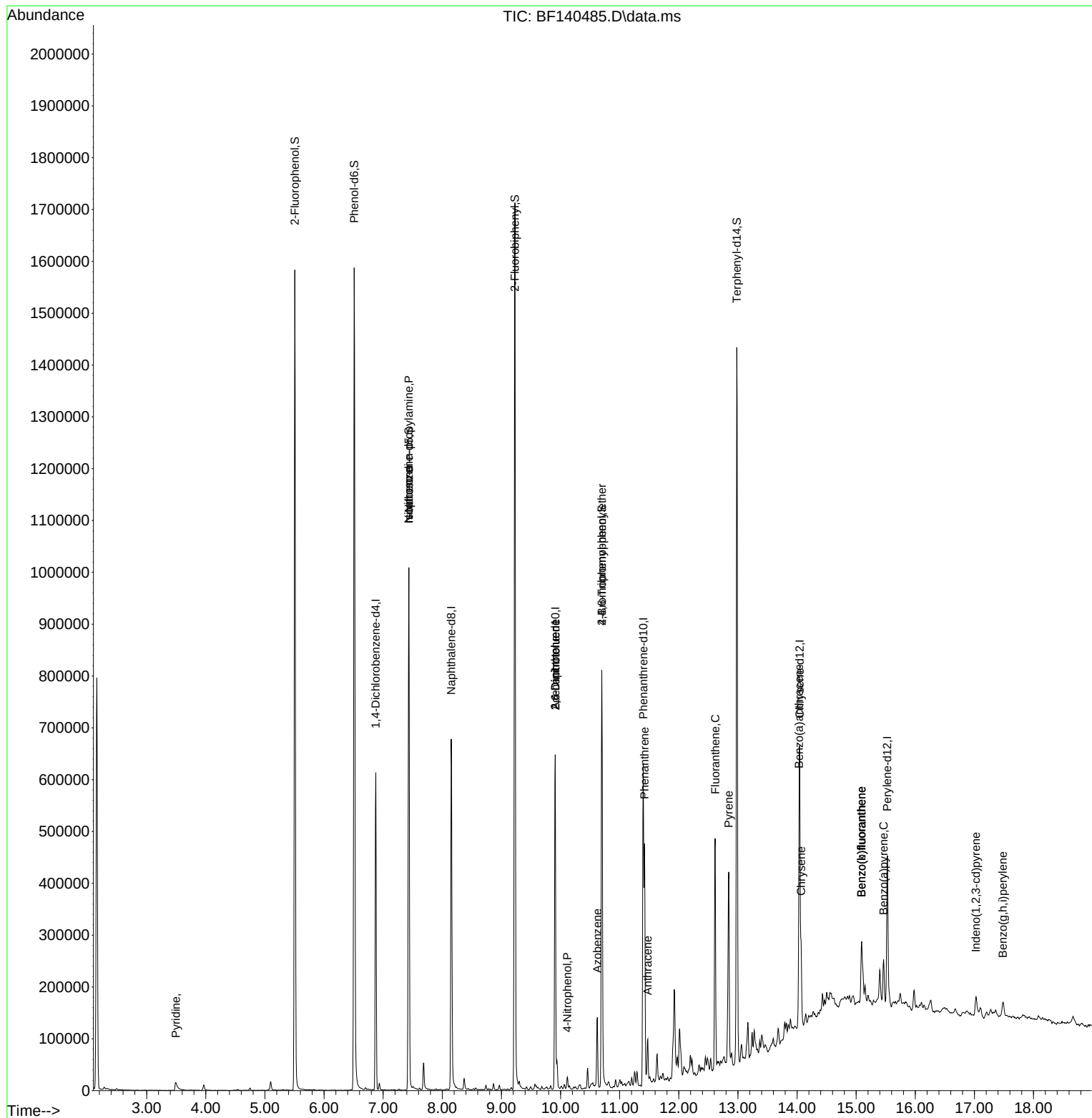
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 128449   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 442282   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.910  | 164  | 201259   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 327784   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.045 | 240  | 204608   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.527 | 264  | 167630   | 20.000 | ng    | -0.03    |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.504  | 112  | 591551   | 78.631 | ng    | 0.01     |
| 7) Phenol-d6                  | 6.510  | 99   | 769778   | 75.523 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 460061   | 54.197 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.698 | 330  | 138157   | 69.031 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.228  | 172  | 790181   | 63.115 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.980 | 244  | 675321   | 57.291 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 3) Pyridine                   | 3.493  | 79   | 17948    | 2.177  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.434  | 70   | 60570    | 9.839  | ng    | # 78     |
| 25) Isophorone                | 7.434  | 82   | 454928   | 30.239 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 9.910  | 165  | 25670    | 8.583  | ng    | # 22     |
| 56) 4-Nitrophenol             | 10.116 | 139  | 4762     | 2.079  | ng    | # 6      |
| 57) 2,4-Dinitrotoluene        | 9.910  | 165  | 25670    | 6.522  | ng    | # 20     |
| 63) Azobenzene                | 10.622 | 77   | 35527    | 2.680  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.698 | 248  | 9034     | 2.757  | ng    | # 1      |
| 71) Phenanthrene              | 11.422 | 178  | 233852   | 15.187 | ng    | 99       |
| 72) Anthracene                | 11.475 | 178  | 50108    | 3.320  | ng    | 99       |
| 75) Fluoranthene              | 12.616 | 202  | 261856   | 15.158 | ng    | 98       |
| 78) Pyrene                    | 12.845 | 202  | 222754   | 12.728 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.033 | 228  | 102909   | 7.653  | ng    | 97       |
| 83) Chrysene                  | 14.069 | 228  | 84023    | 6.848  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.027 | 276  | 26190    | 2.529  | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.092 | 252  | 104186   | 9.501  | ng    | # 94     |
| 89) Benzo(k)fluoranthene      | 15.092 | 252  | 104186   | 11.630 | ng    | # 93     |
| 90) Benzo(a)pyrene            | 15.463 | 252  | 52955    | 6.219  | ng    | # 96     |
| 92) Benzo(g,h,i)perylene      | 17.480 | 276  | 24915    | 2.847  | ng    | 95       |
| -----                         |        |      |          |        |       |          |

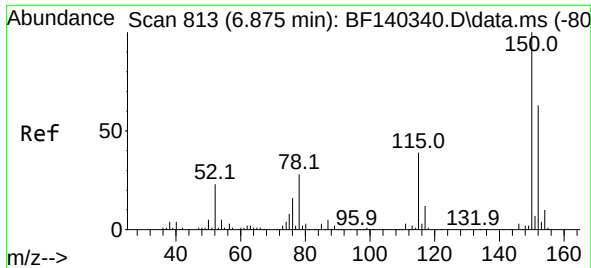
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 13 14:40:06 2024  
Response via : Initial Calibration

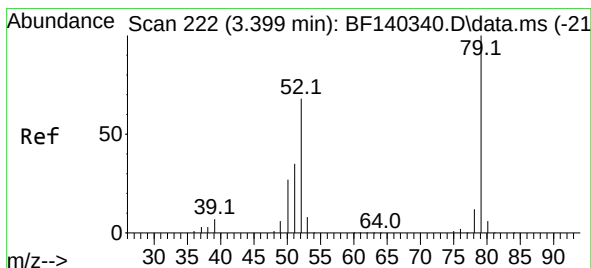
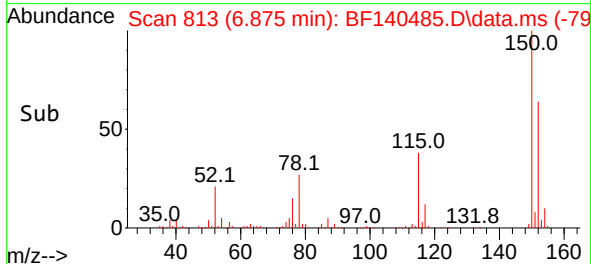
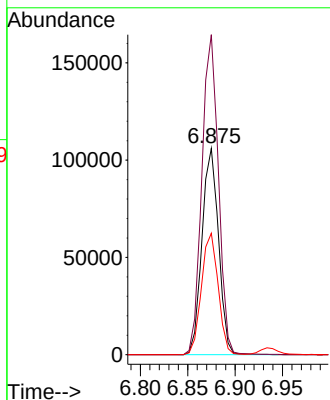
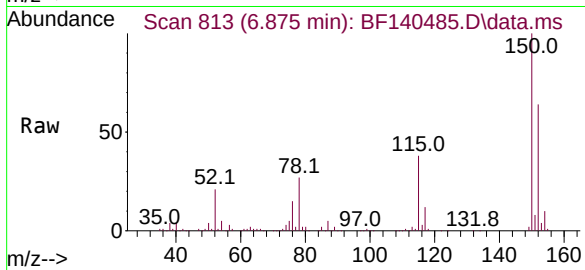




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

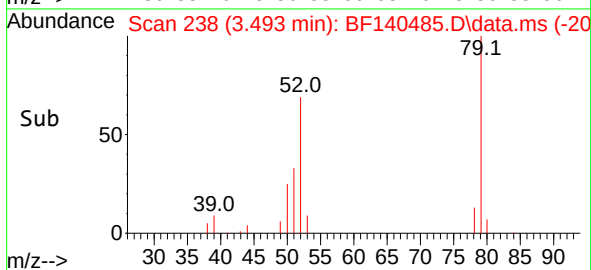
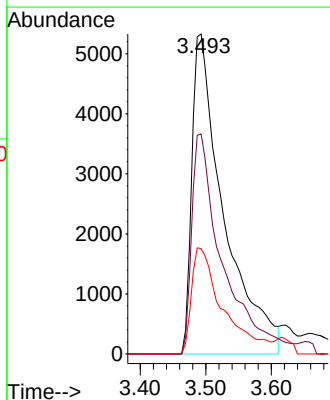
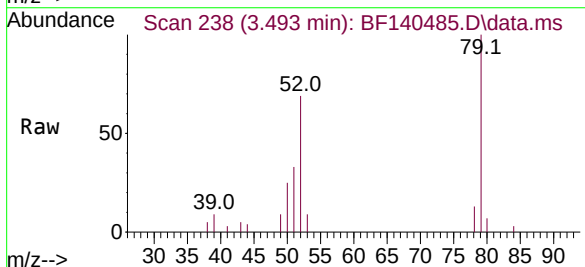
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

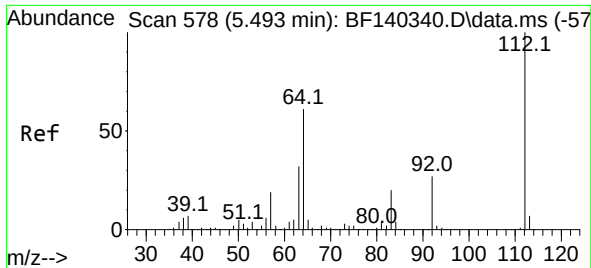
Tgt Ion:152 Resp: 128449  
Ion Ratio Lower Upper  
152 100  
150 155.1 127.4 191.0  
115 58.9 47.4 71.2



#3  
Pyridine  
Concen: 2.177 ng  
RT: 3.493 min Scan# 238  
Delta R.T. 0.088 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

Tgt Ion: 79 Resp: 17948  
Ion Ratio Lower Upper  
79 100  
52 68.7 53.8 80.6  
51 33.0 27.3 40.9

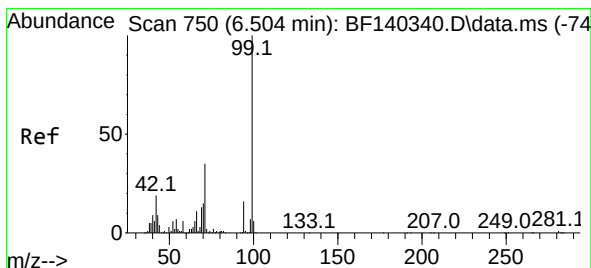
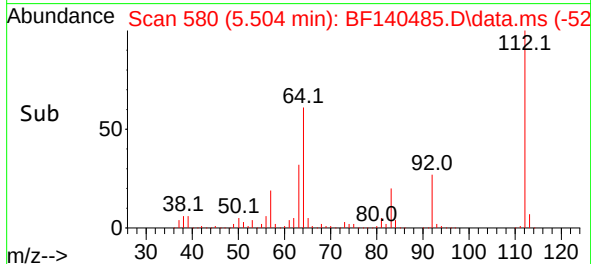
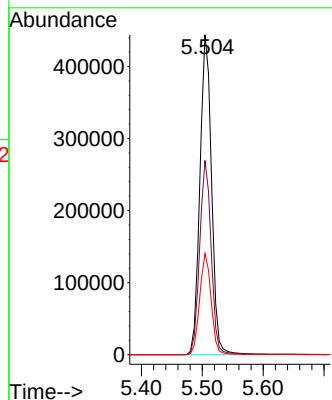
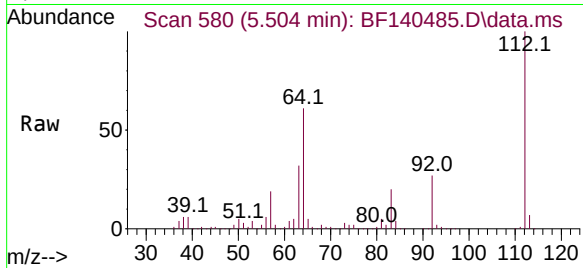




#5  
 2-Fluorophenol  
 Concen: 78.631 ng  
 RT: 5.504 min Scan# 51  
 Delta R.T. 0.012 min  
 Lab File: BF140485.D  
 Acq: 19 Nov 2024 20:20

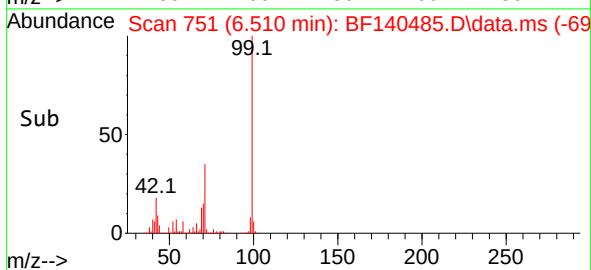
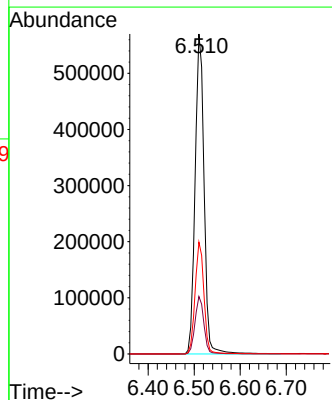
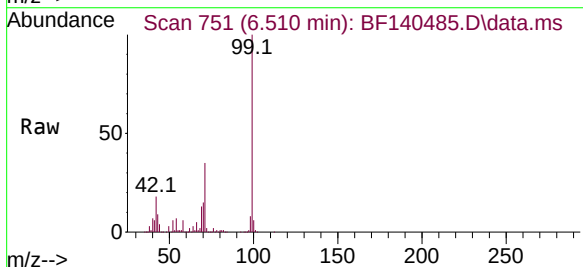
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2

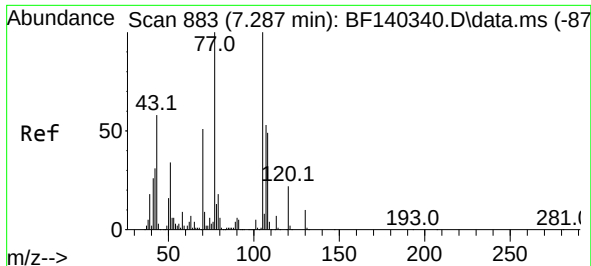
Tgt Ion:112 Resp: 591551  
 Ion Ratio Lower Upper  
 112 100  
 64 60.7 49.2 73.8  
 63 31.6 25.6 38.4



#7  
 Phenol-d6  
 Concen: 75.523 ng  
 RT: 6.510 min Scan# 751  
 Delta R.T. 0.006 min  
 Lab File: BF140485.D  
 Acq: 19 Nov 2024 20:20

Tgt Ion: 99 Resp: 769778  
 Ion Ratio Lower Upper  
 99 100  
 42 17.9 15.1 22.7  
 71 34.9 27.9 41.9

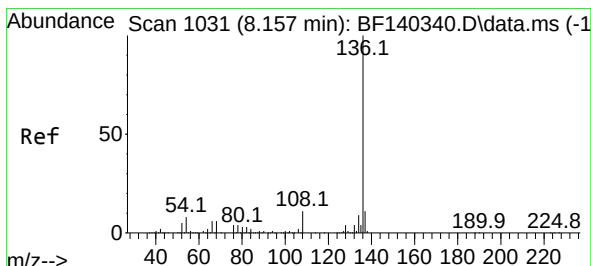
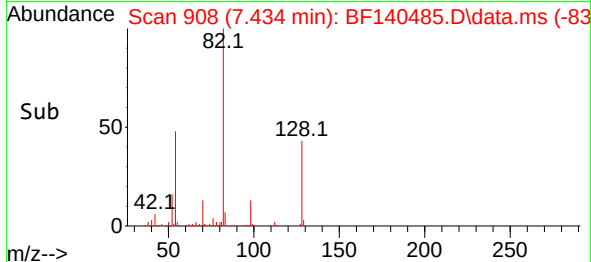
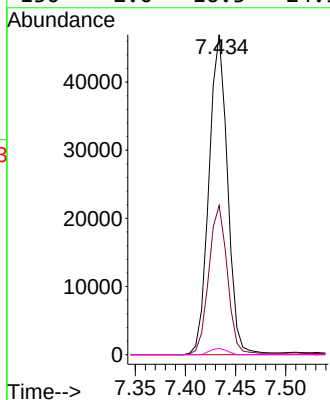
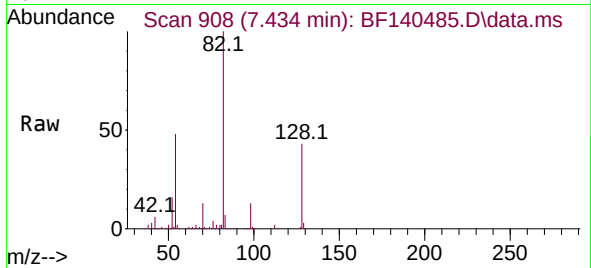




#19  
n-Nitroso-di-n-propylamine  
Concen: 9.839 ng  
RT: 7.434 min Scan# 90  
Delta R.T. 0.141 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

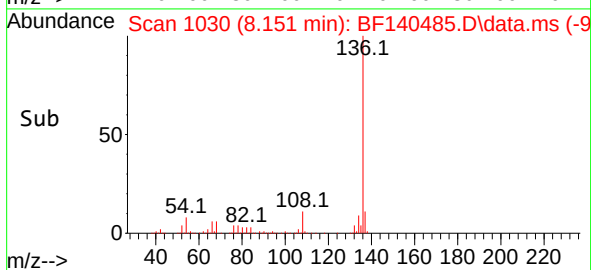
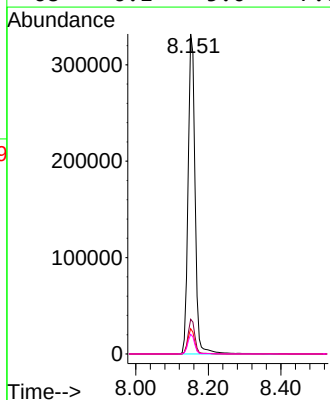
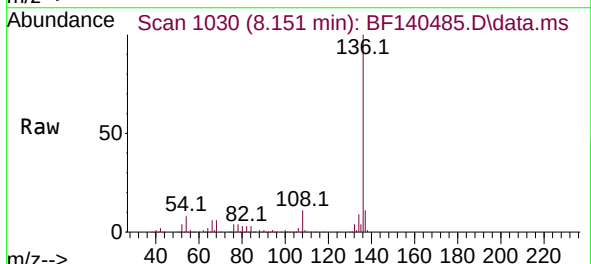
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

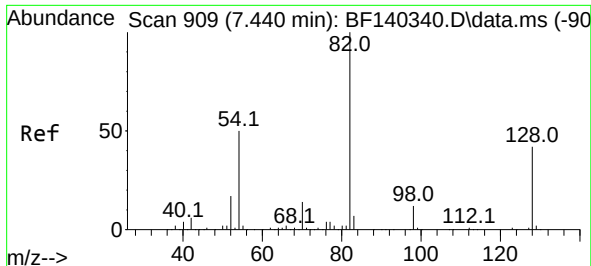
Tgt Ion: 70 Resp: 60570  
Ion Ratio Lower Upper  
70 100  
42 46.6 46.8 70.2#  
101 0.0 7.5 11.3#  
130 2.0 16.3 24.5#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.151 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

Tgt Ion: 136 Resp: 442282  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.7 13.1  
54 7.9 6.5 9.7  
68 6.1 5.0 7.6





#23

Nitrobenzene-d5

Concen: 54.197 ng

RT: 7.434 min Scan# 908

Delta R.T. -0.006 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

SP-2

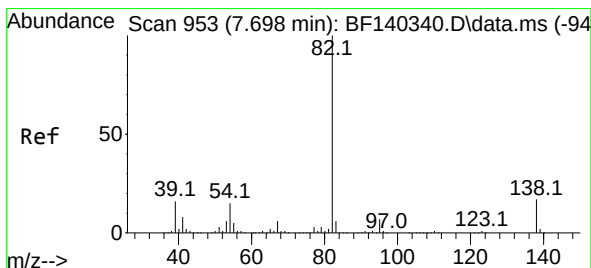
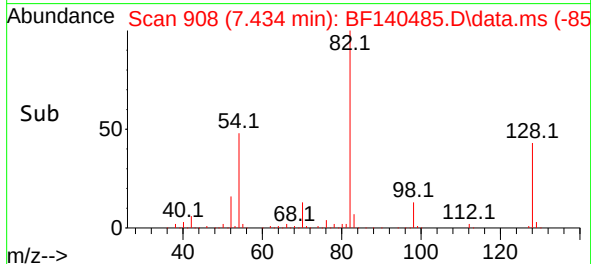
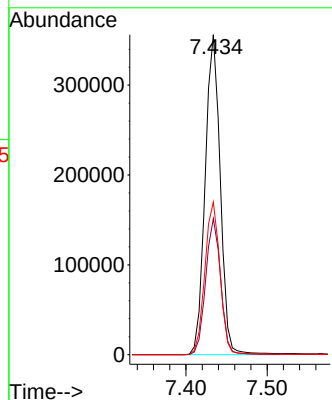
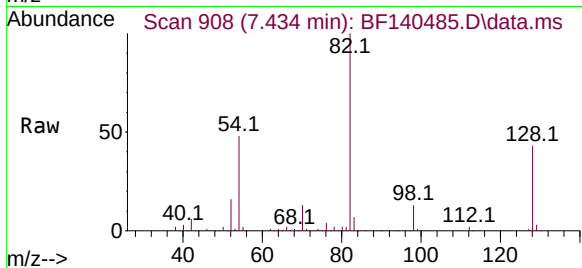
Tgt Ion: 82 Resp: 460061

Ion Ratio Lower Upper

82 100

128 42.5 33.3 49.9

54 47.7 39.8 59.8



#25

Isophorone

Concen: 30.239 ng

RT: 7.434 min Scan# 908

Delta R.T. -0.265 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

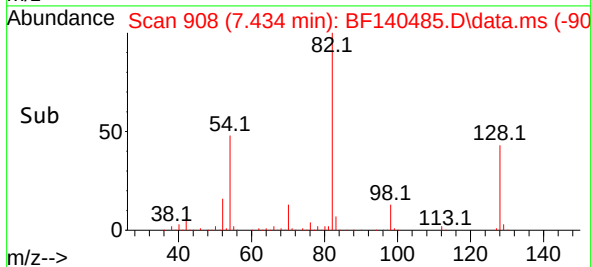
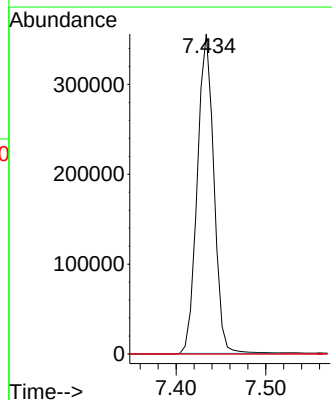
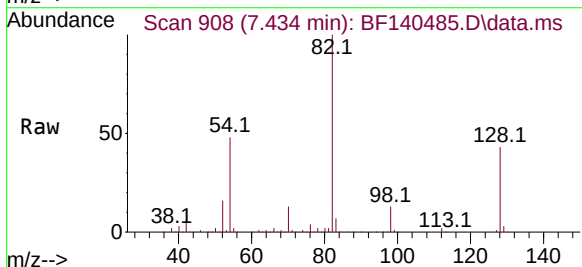
Tgt Ion: 82 Resp: 454928

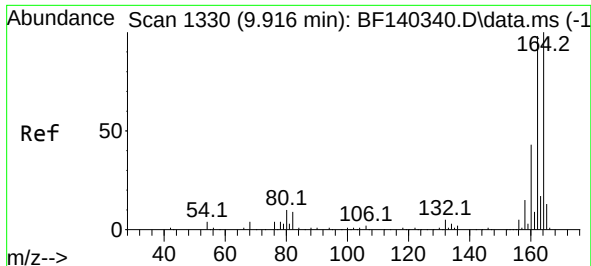
Ion Ratio Lower Upper

82 100

95 0.0 5.9 8.9#

138 0.0 13.4 20.2#

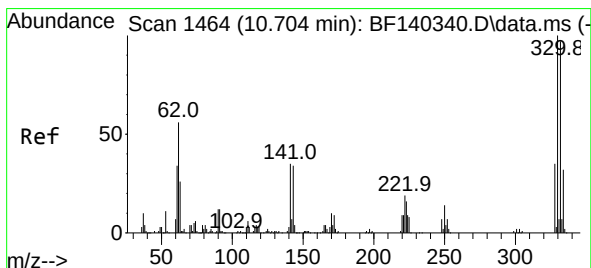
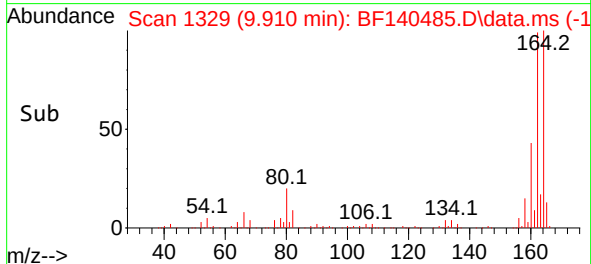
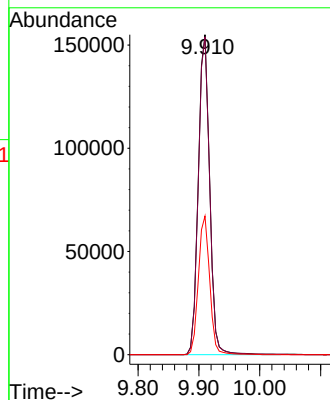
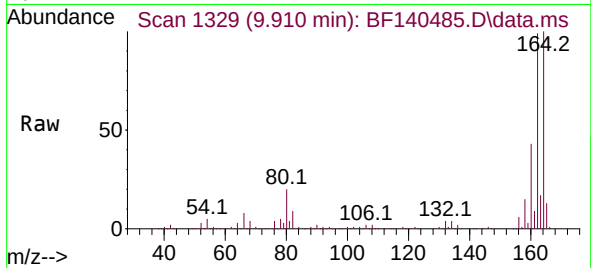




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

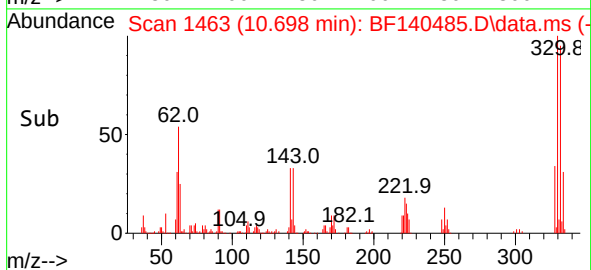
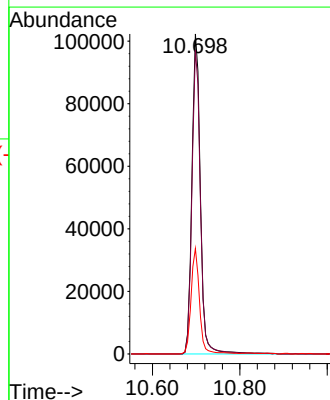
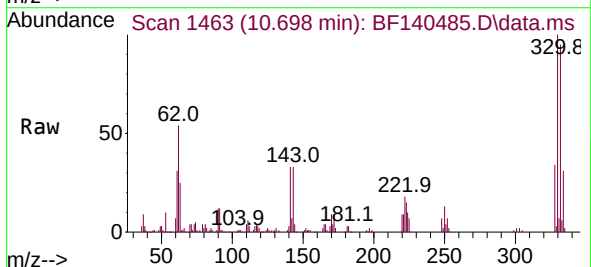
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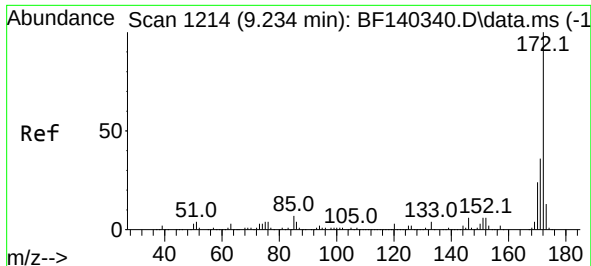
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Ion Ratio Lower Upper  
164 100  
162 99.3 79.8 119.8  
160 43.3 35.4 53.0



#42  
2,4,6-Tribromophenol  
Concen: 69.031 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.006 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

Tgt Ion:330 Resp: 138157  
Ion Ratio Lower Upper  
330 100  
332 94.8 75.9 113.9  
141 32.9 26.9 40.3

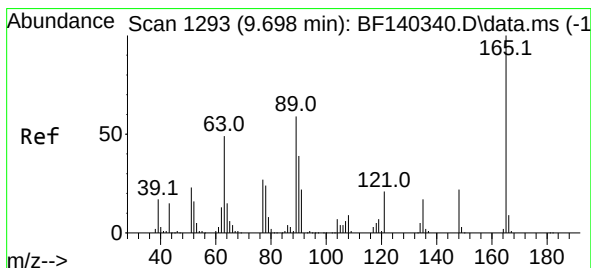
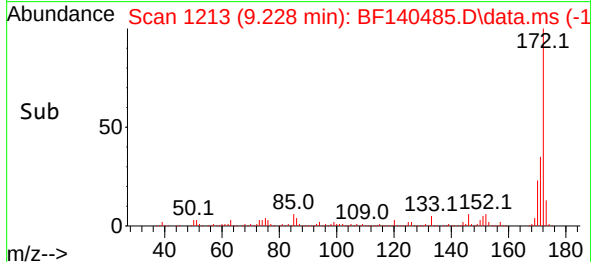
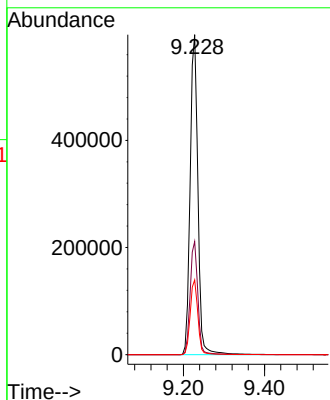
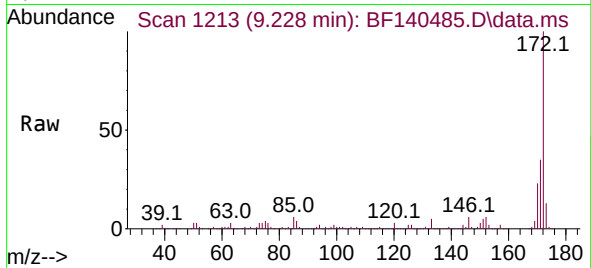




#45  
2-Fluorobiphenyl  
Concen: 63.115 ng  
RT: 9.228 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

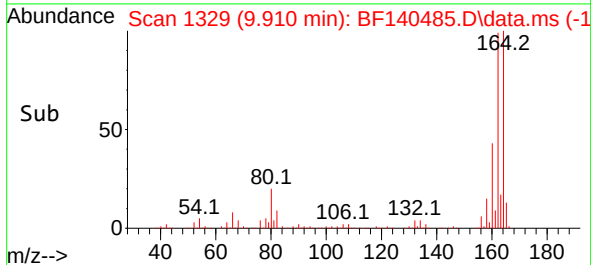
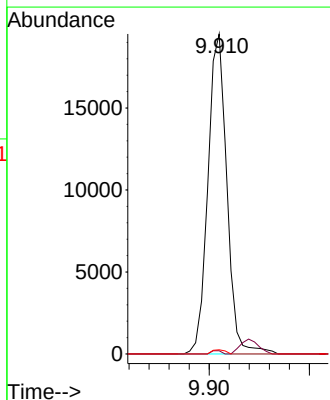
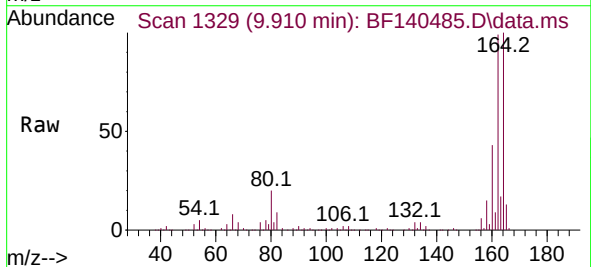
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

Tgt Ion:172 Resp: 790181  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.5 42.7  
170 23.4 19.1 28.7

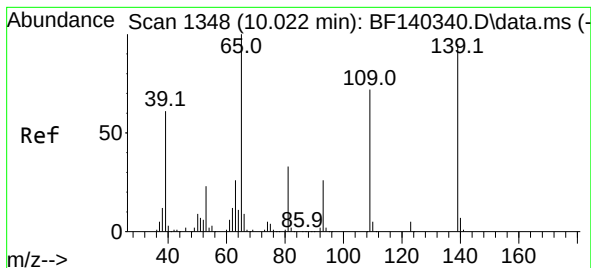


#51  
2,6-Dinitrotoluene  
Concen: 8.583 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. 0.212 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

Tgt Ion:165 Resp: 25670  
Ion Ratio Lower Upper  
165 100  
63 1.0 47.6 71.4#  
89 1.3 48.1 72.1#



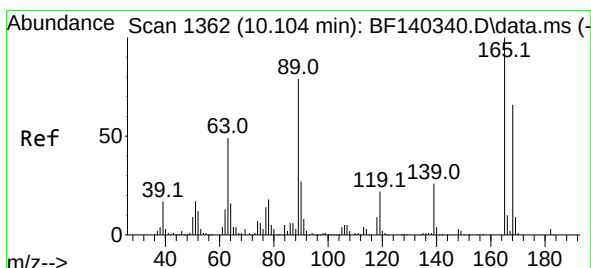
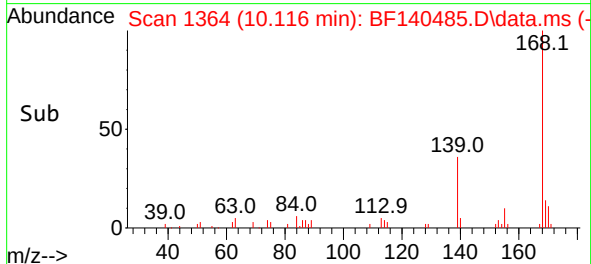
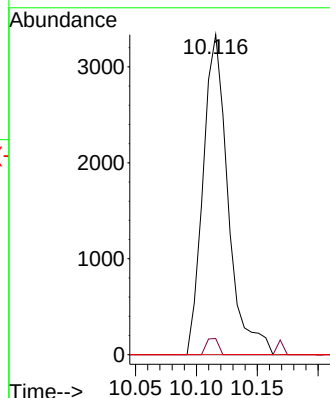
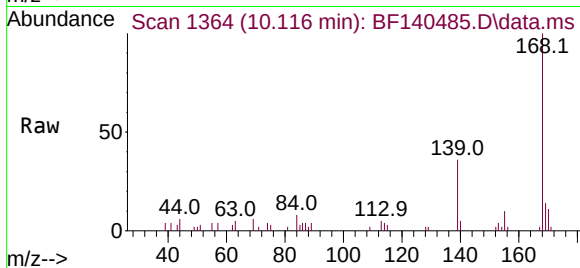




#56  
4-Nitrophenol  
Concen: 2.079 ng  
RT: 10.116 min Scan# 11  
Delta R.T. 0.094 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

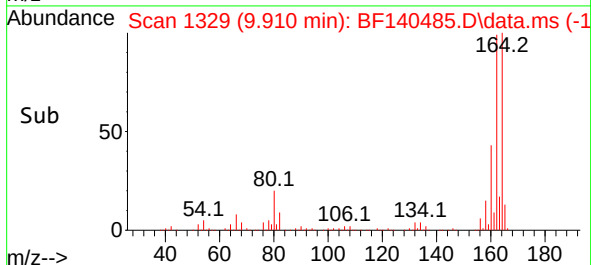
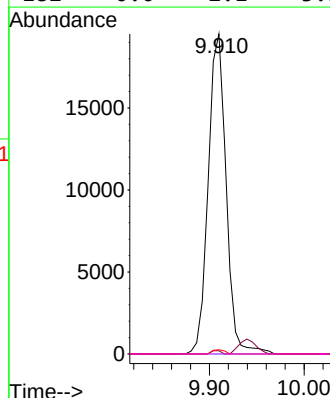
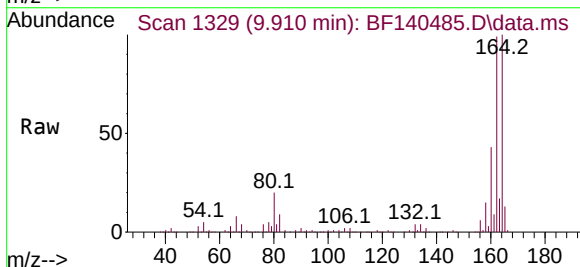
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

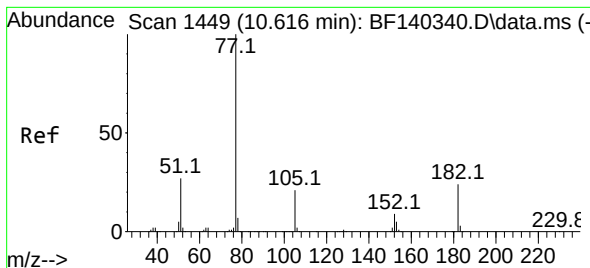
Tgt Ion:139 Resp: 4762  
Ion Ratio Lower Upper  
139 100  
109 5.0 54.5 94.5#  
65 0.0 84.4 124.4#



#57  
2,4-Dinitrotoluene  
Concen: 6.522 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. -0.194 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

Tgt Ion:165 Resp: 25670  
Ion Ratio Lower Upper  
165 100  
63 1.0 39.4 59.0#  
89 1.3 62.4 93.6#  
182 0.0 2.1 3.1#





#63

Azobenzene

Concen: 2.680 ng

RT: 10.622 min Scan# 1449

Delta R.T. 0.006 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

SP-2

Tgt Ion: 77 Resp: 35527

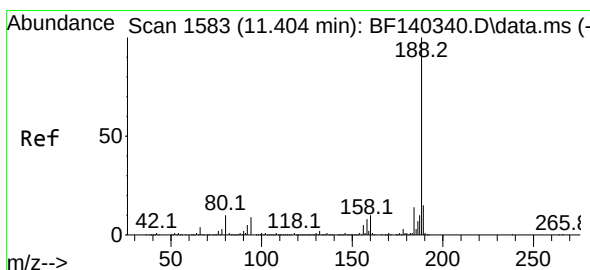
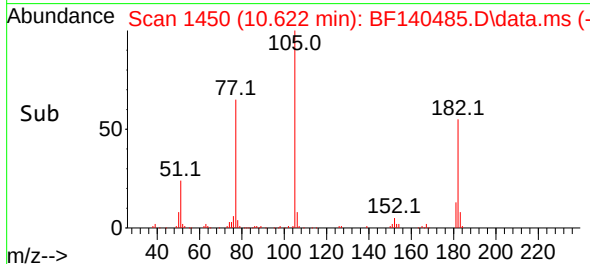
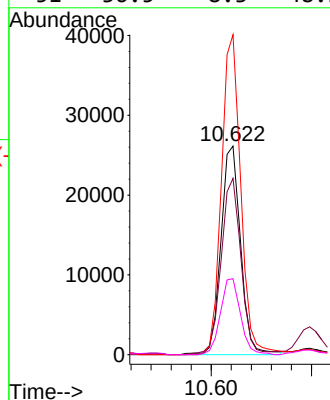
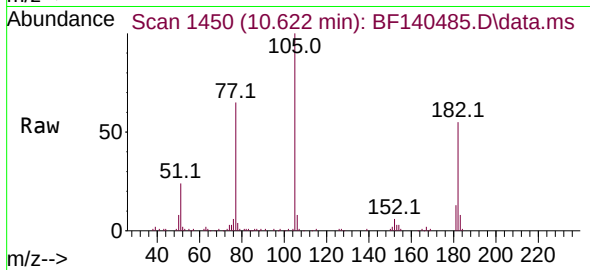
Ion Ratio Lower Upper

77 100

182 84.5 4.6 44.6#

105 153.4 0.9 40.9#

51 36.5 8.3 48.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

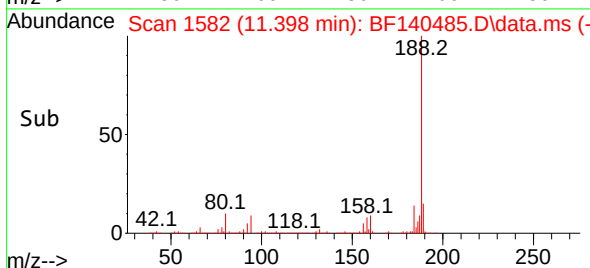
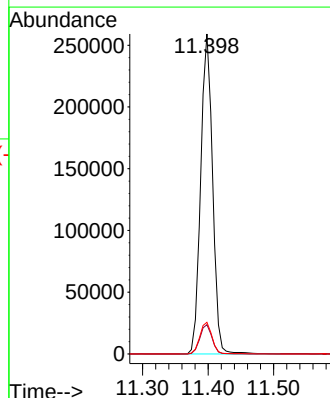
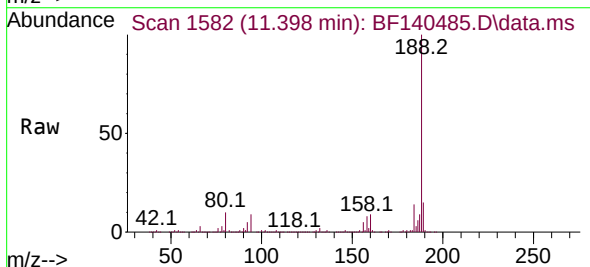
Tgt Ion: 188 Resp: 327784

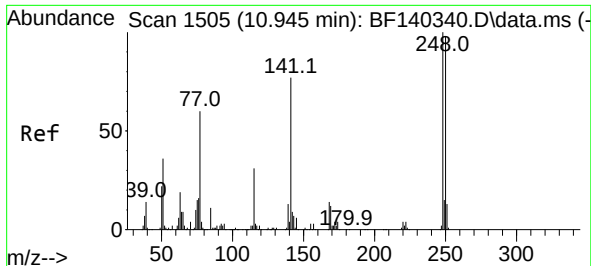
Ion Ratio Lower Upper

188 100

94 9.2 7.6 11.4

80 9.9 8.0 12.0

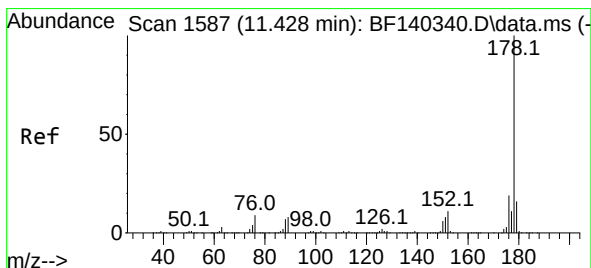
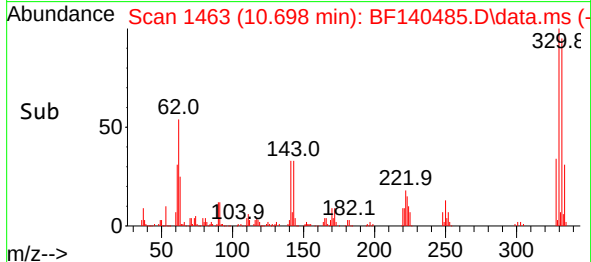
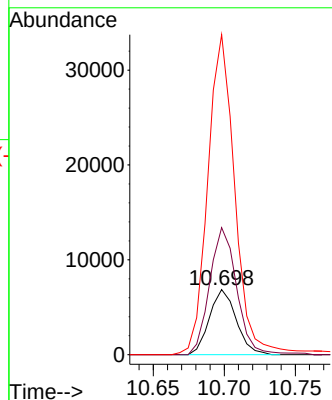
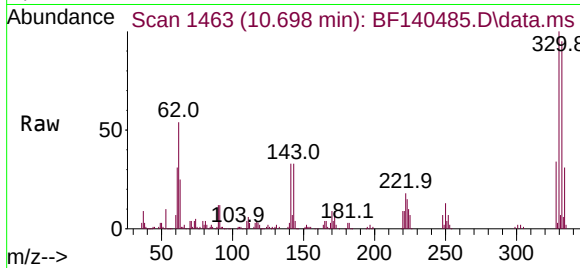




#67  
4-Bromophenyl-phenylether  
Concen: 2.757 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.247 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

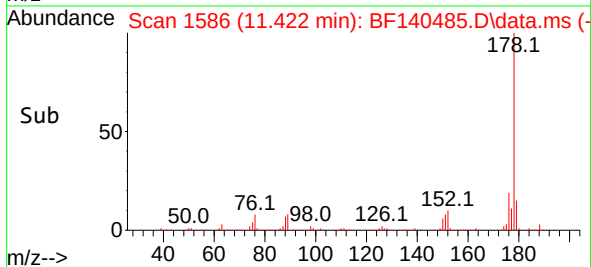
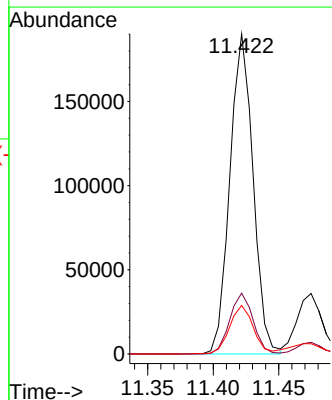
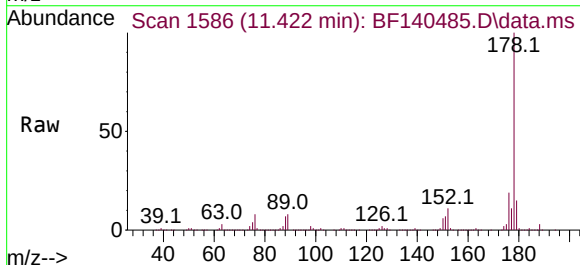
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

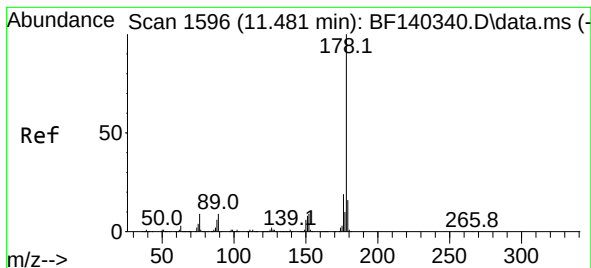
Tgt Ion:248 Resp: 9034  
Ion Ratio Lower Upper  
248 100  
250 195.3 77.9 116.9#  
141 491.8 61.8 92.6#



#71  
Phenanthrene  
Concen: 15.187 ng  
RT: 11.422 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

Tgt Ion:178 Resp: 233852  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.5 23.3  
179 15.2 12.4 18.6





#72

Anthracene

Concen: 3.320 ng

RT: 11.475 min Scan# 1595

Delta R.T. -0.006 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

SP-2

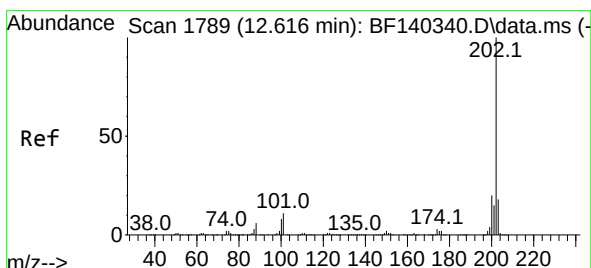
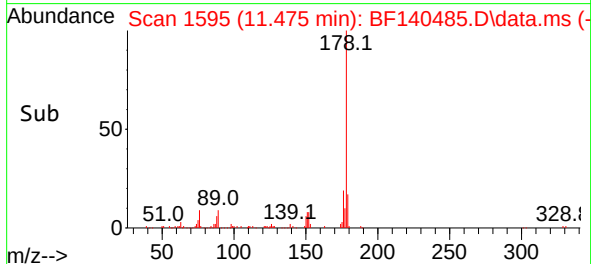
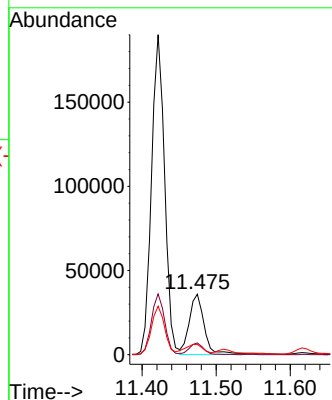
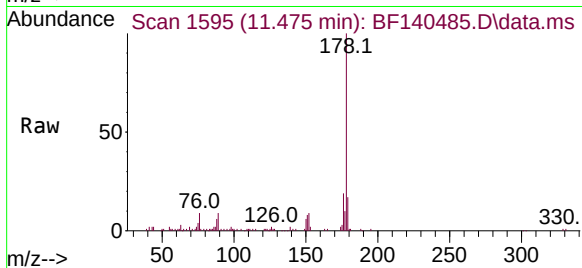
Tgt Ion:178 Resp: 50108

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

179 16.9 12.6 18.8



#75

Fluoranthene

Concen: 15.158 ng

RT: 12.616 min Scan# 1789

Delta R.T. -0.000 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

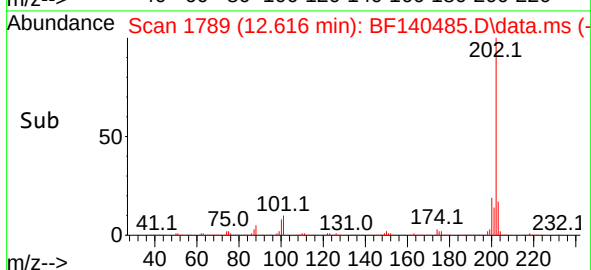
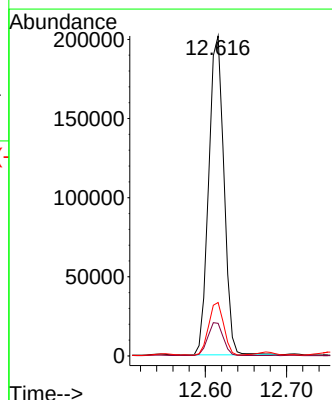
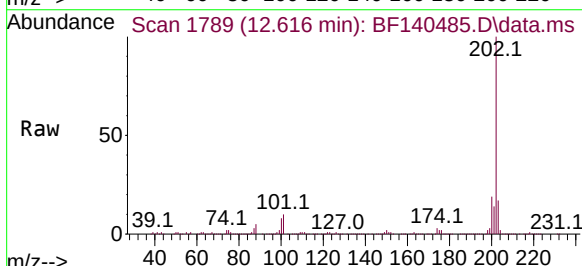
Tgt Ion:202 Resp: 261856

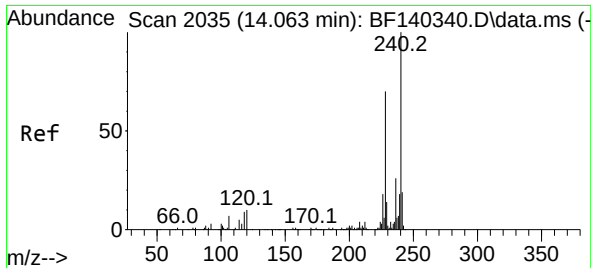
Ion Ratio Lower Upper

202 100

101 10.2 0.0 30.7

203 16.7 0.0 37.7

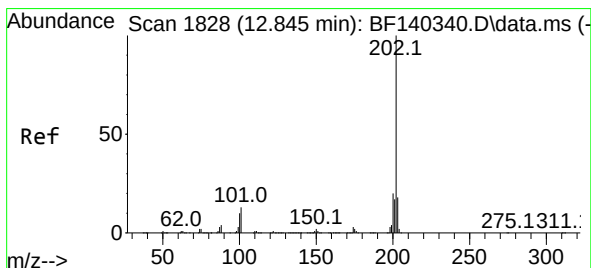
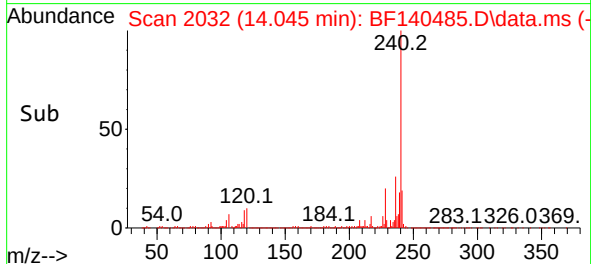
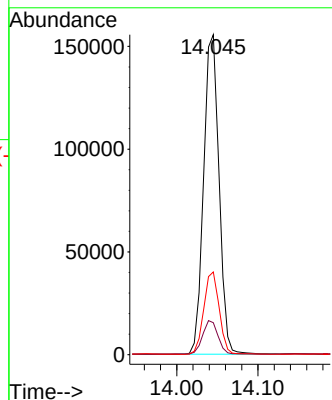
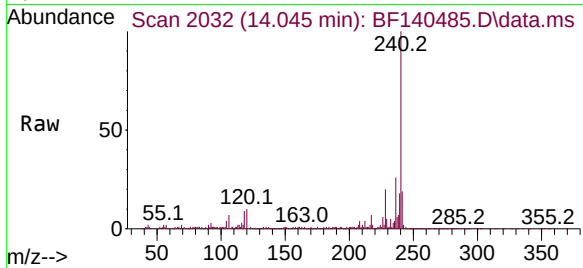




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.045 min Scan# 2035  
Delta R.T. -0.006 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

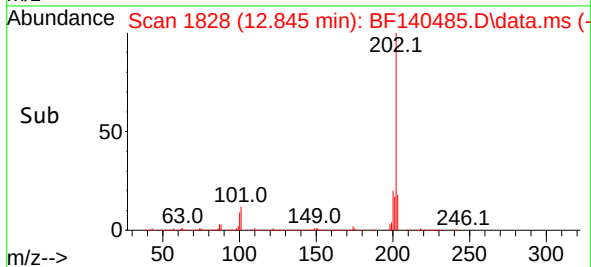
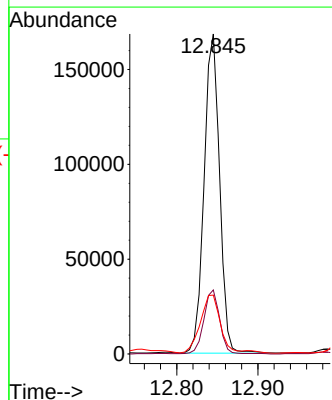
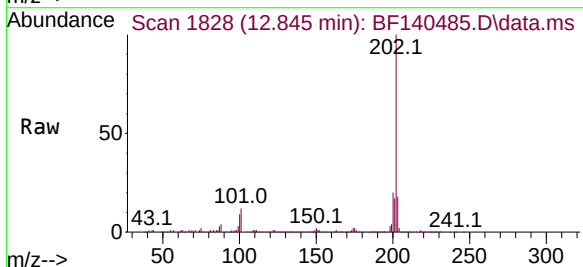
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

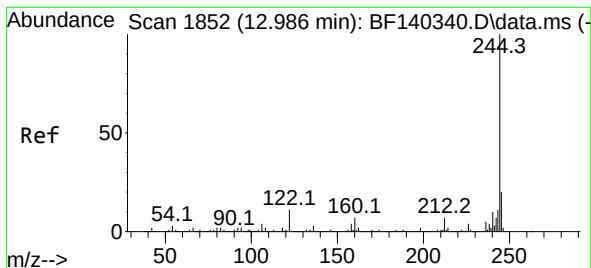
Tgt Ion:240 Resp: 204608  
Ion Ratio Lower Upper  
240 100  
120 10.0 8.8 13.2  
236 25.8 20.9 31.3



#78  
Pyrene  
Concen: 12.728 ng  
RT: 12.845 min Scan# 1828  
Delta R.T. -0.000 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

Tgt Ion:202 Resp: 222754  
Ion Ratio Lower Upper  
202 100  
200 20.0 16.2 24.2  
203 18.4 14.2 21.4





#79

Terphenyl-d14

Concen: 57.291 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.006 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

SP-2

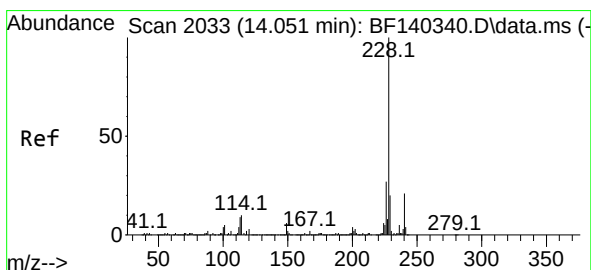
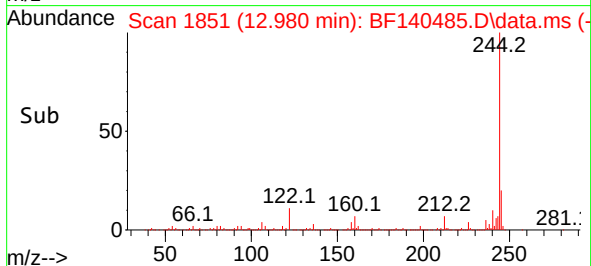
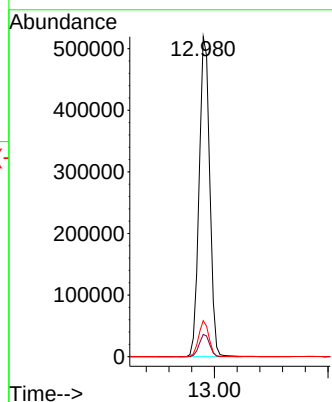
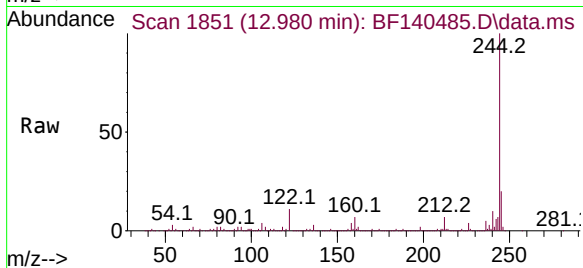
Tgt Ion:244 Resp: 675321

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

122 11.3 8.8 13.2



#81

Benzo(a)anthracene

Concen: 7.653 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.006 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

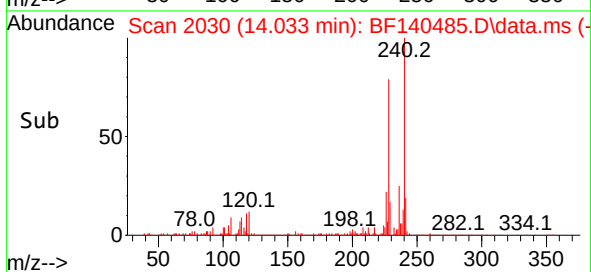
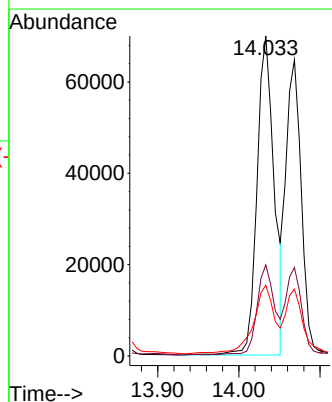
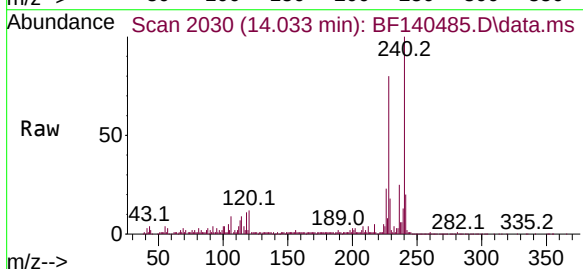
Tgt Ion:228 Resp: 102909

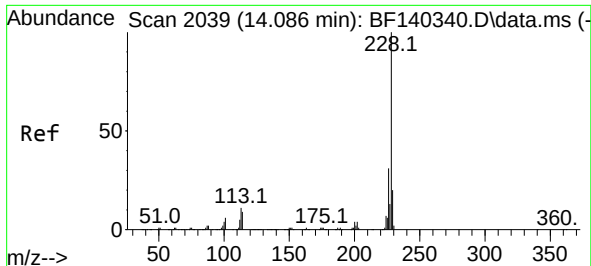
Ion Ratio Lower Upper

228 100

226 28.5 22.2 33.4

229 22.1 15.8 23.6

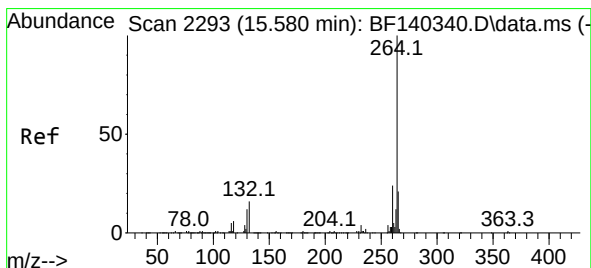
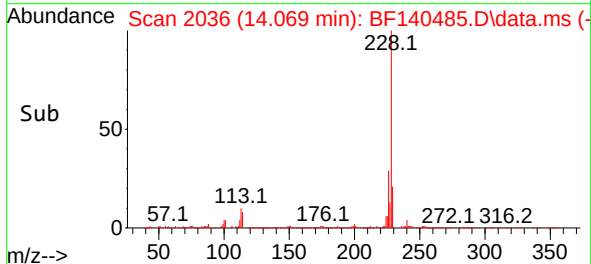
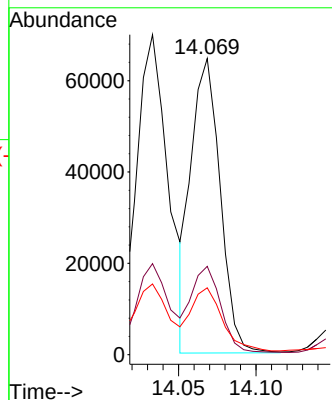
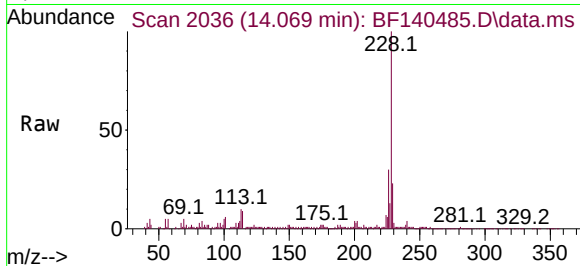




#83  
Chrysene  
Concen: 6.848 ng  
RT: 14.069 min Scan# 2039  
Delta R.T. -0.012 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

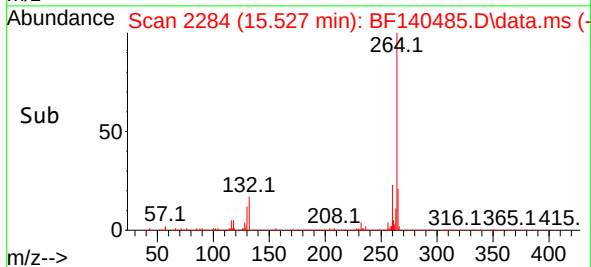
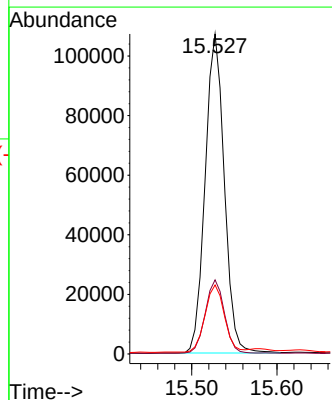
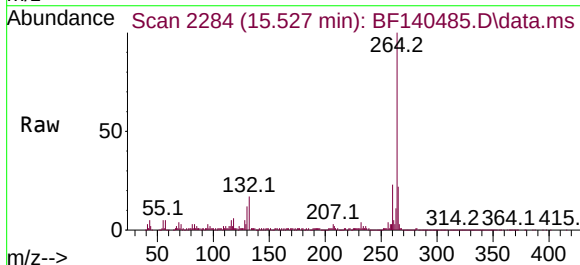
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2

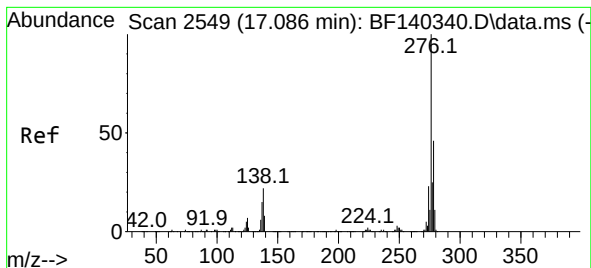
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 24.5  | 36.7  |
| 229     | 22.6  | 16.0  | 24.0  |



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.527 min Scan# 2284  
Delta R.T. -0.029 min  
Lab File: BF140485.D  
Acq: 19 Nov 2024 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.2  | 28.8  |
| 265     | 21.6  | 17.1  | 25.7  |





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.529 ng

RT: 17.027 min Scan# 2110

Delta R.T. -0.029 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

SP-2

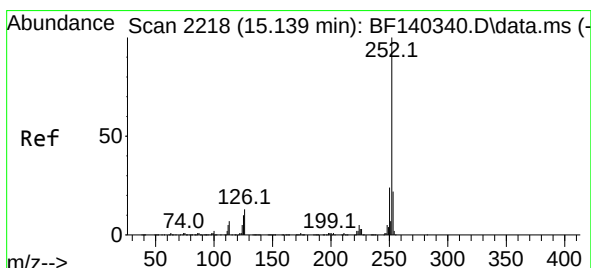
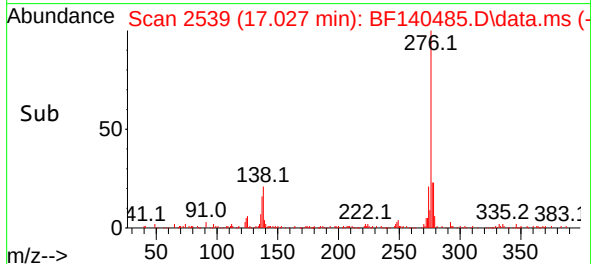
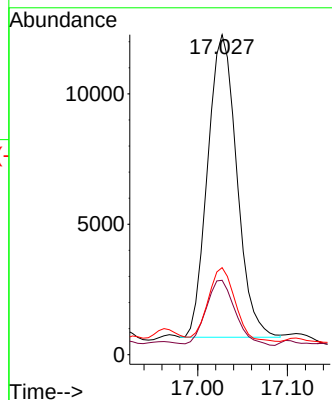
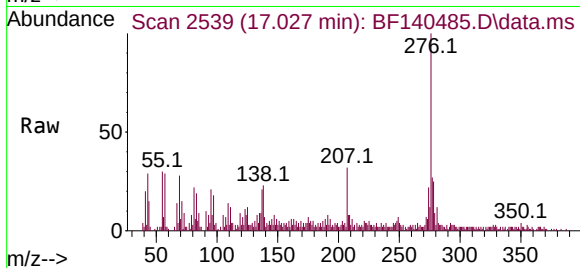
Tgt Ion:276 Resp: 26190

Ion Ratio Lower Upper

276 100

138 21.5 18.8 28.2

277 24.6 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 9.501 ng

RT: 15.092 min Scan# 2210

Delta R.T. -0.024 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

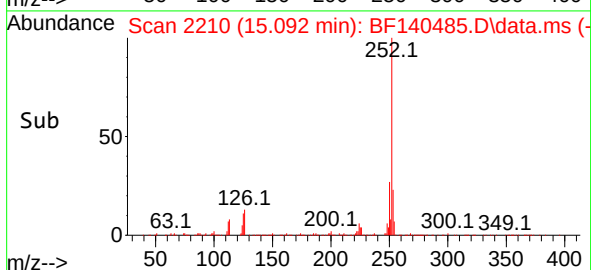
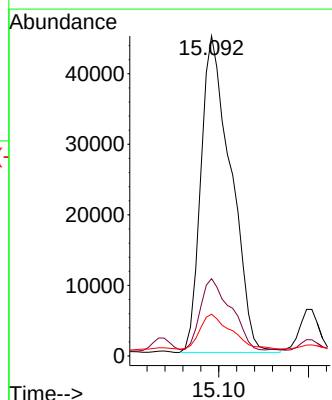
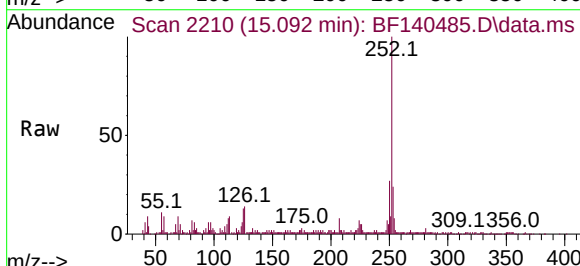
Tgt Ion:252 Resp: 104186

Ion Ratio Lower Upper

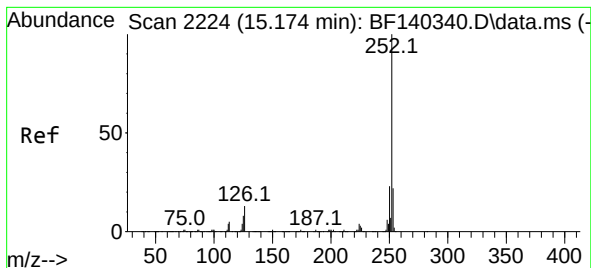
252 100

253 24.1 17.5 26.3

125 13.1 8.0 12.0#







#89

Benzo(k)fluoranthene

Concen: 11.630 ng

RT: 15.092 min Scan# 21

Delta R.T. -0.059 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

SP-2

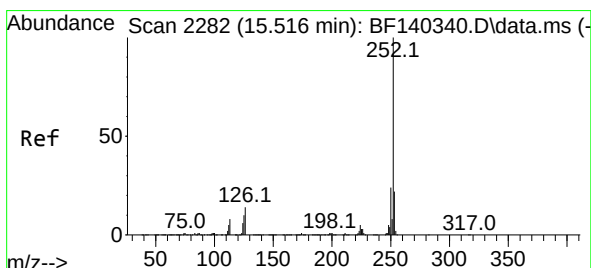
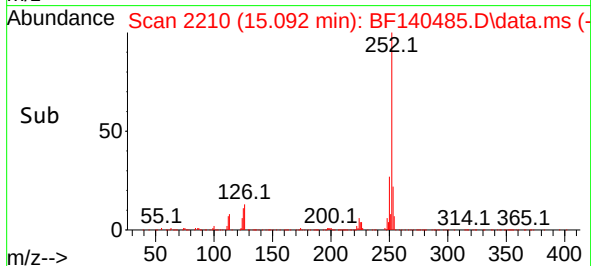
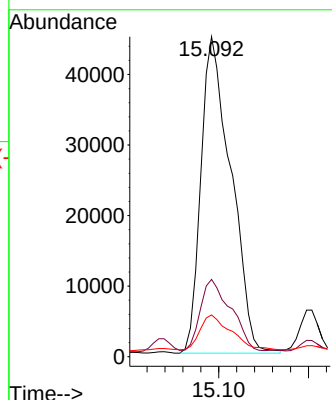
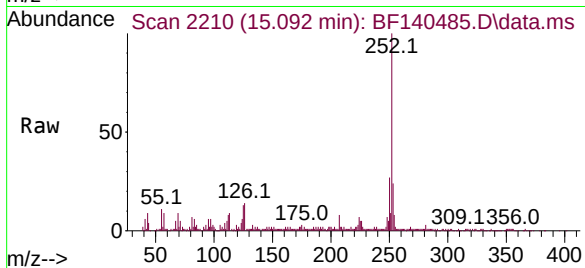
Tgt Ion:252 Resp: 104186

Ion Ratio Lower Upper

252 100

253 24.1 17.3 25.9

125 13.1 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 6.219 ng

RT: 15.463 min Scan# 2273

Delta R.T. -0.029 min

Lab File: BF140485.D

Acq: 19 Nov 2024 20:20

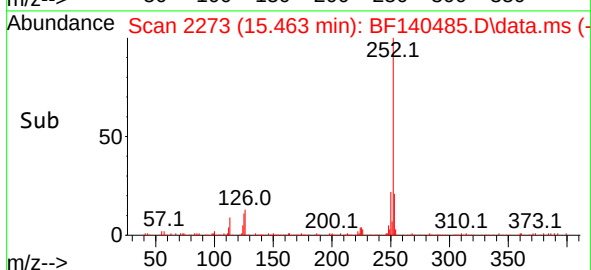
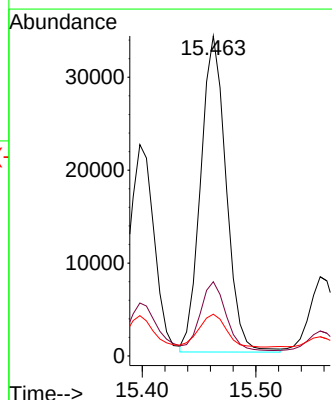
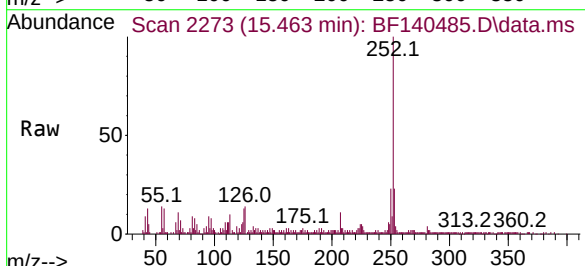
Tgt Ion:252 Resp: 52955

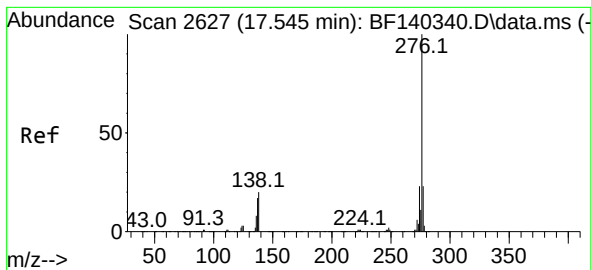
Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.6

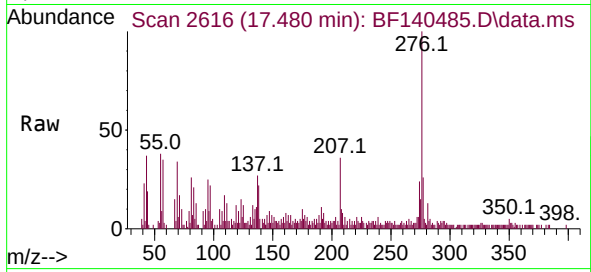
125 13.0 8.4 12.6#





#92  
 Benzo(g,h,i)perylene  
 Concen: 2.847 ng  
 RT: 17.480 min Scan# 20  
 Delta R.T. -0.035 min  
 Lab File: BF140485.D  
 Acq: 19 Nov 2024 20:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 24915 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 26.1  | 18.6  | 28.0  |
| 138      | 22.3  | 16.0  | 24.0  |

