

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF041923\  
 Data File : BF132926.D  
 Acq On : 19 Apr 2023 22:45  
 Operator : CG\JU  
 Sample : 02270-25  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-16-0-2-20230413

Quant Time: Apr 20 01:52:00 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF041723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 18 04:51:21 2023  
 Response via : Initial Calibration

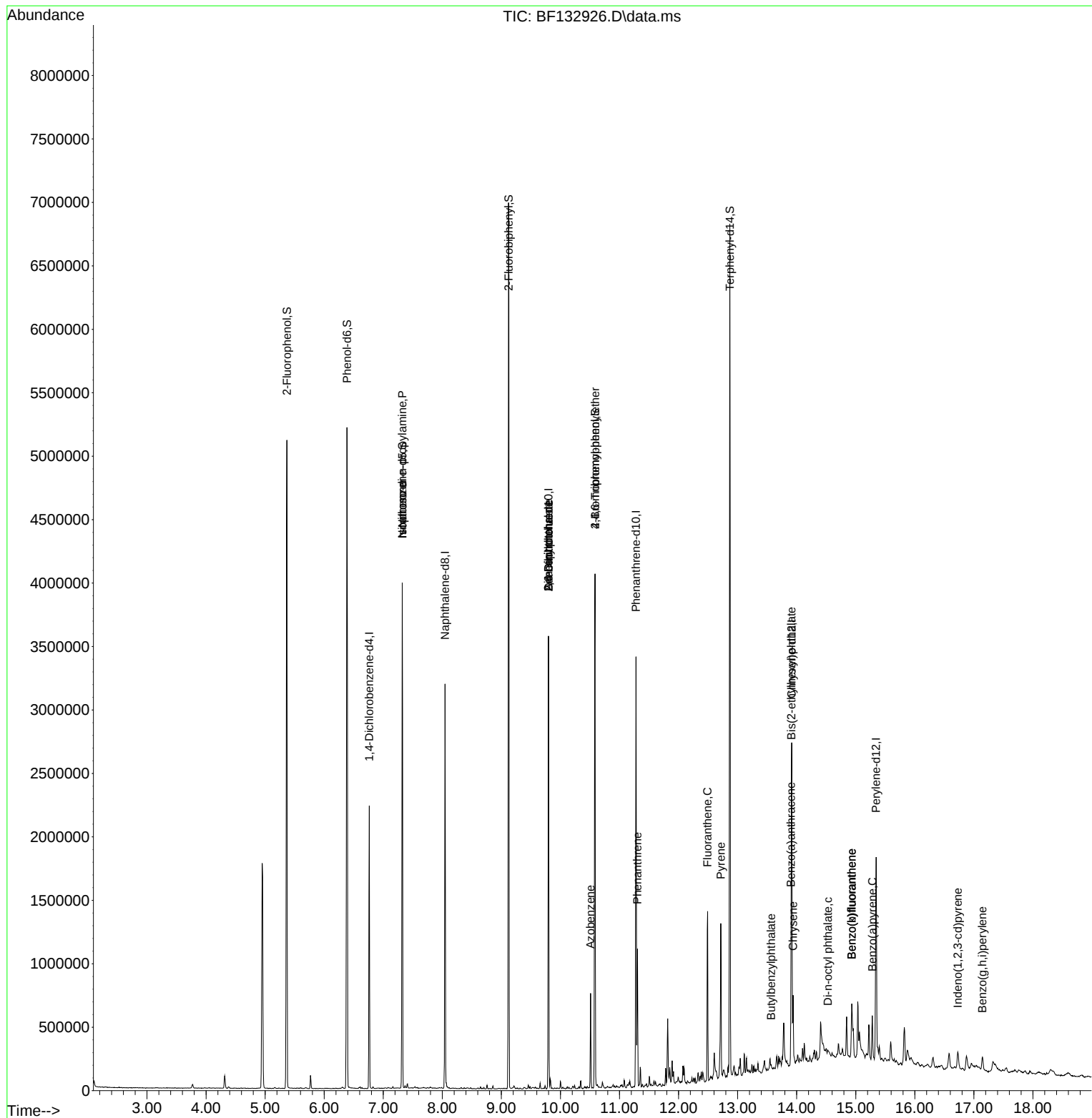
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.763  | 152  | 277699   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.045  | 136  | 1155770  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.798  | 164  | 620398   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.280 | 188  | 1099044  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.915 | 240  | 632500   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12              | 15.345 | 264  | 649855   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.369  | 112  | 1356831  | 76.401 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.387  | 99   | 1775068  | 78.329 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.322  | 82   | 1116154  | 50.338 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.586 | 330  | 479989   | 77.136 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.122  | 172  | 2022598  | 50.083 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.868 | 244  | 2191146  | 59.103 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.322  | 70   | 146241   | 10.339 | ng    | # 82     |
| 25) Isophorone                | 7.322  | 82   | 1115950  | 26.533 | ng    | # 65     |
| 50) Dimethylphthalate         | 9.798  | 163  | 123648   | 2.883  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.798  | 165  | 80772    | 8.589  | ng    | # 28     |
| 57) 2,4-Dinitrotoluene        | 9.798  | 165  | 80772    | 6.959  | ng    | # 24     |
| 63) Azobenzene                | 10.510 | 77   | 111710   | 2.495  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.586 | 248  | 29274    | 2.333  | ng    | # 1      |
| 71) Phenanthrene              | 11.304 | 178  | 331714   | 5.611  | ng    | 98       |
| 75) Fluoranthene              | 12.492 | 202  | 501079   | 8.523  | ng    | 98       |
| 78) Pyrene                    | 12.716 | 202  | 436398   | 8.438  | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.568 | 149  | 391      | 5.162  | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.904 | 228  | 181874   | 4.228  | ng    | 98       |
| 83) Chrysene                  | 13.939 | 228  | 174865   | 4.090  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 13.910 | 149  | 113707   | 6.950  | ng    | # 99     |
| 85) Di-n-octyl phthalate      | 14.527 | 149  | 7958     | 6.577  | ng    | # 27     |
| 87) Indeno(1,2,3-cd)pyrene    | 16.727 | 276  | 89178    | 2.402  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 14.933 | 252  | 294207   | 7.268  | ng    | # 95     |
| 89) Benzo(k)fluoranthene      | 14.933 | 252  | 294207   | 7.296  | ng    | # 96     |
| 90) Benzo(a)pyrene            | 15.280 | 252  | 152561   | 4.125  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.145 | 276  | 80803    | 2.667  | ng    | 94       |
| -----                         |        |      |          |        |       |          |

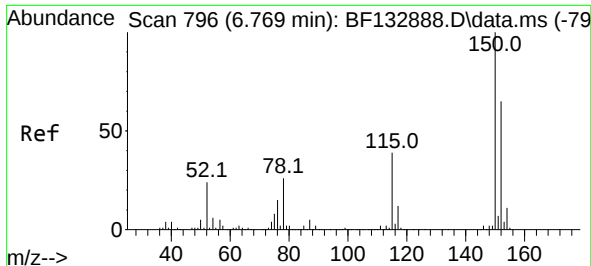
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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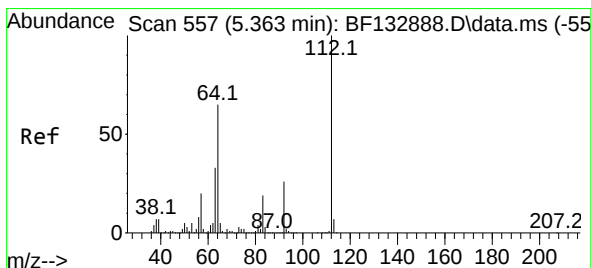
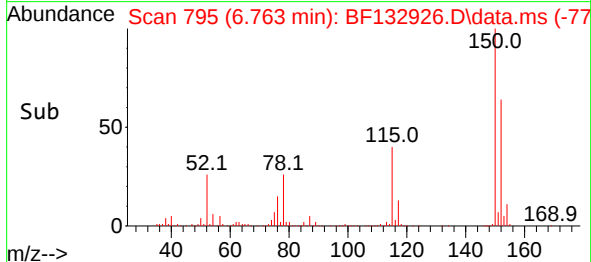
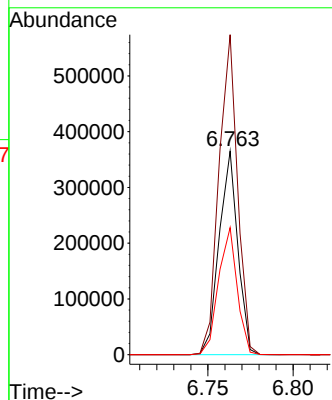
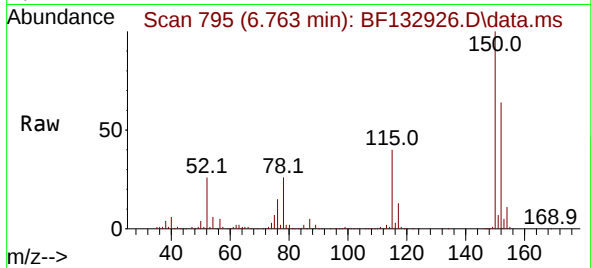




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.763 min Scan# 796  
Delta R.T. -0.006 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

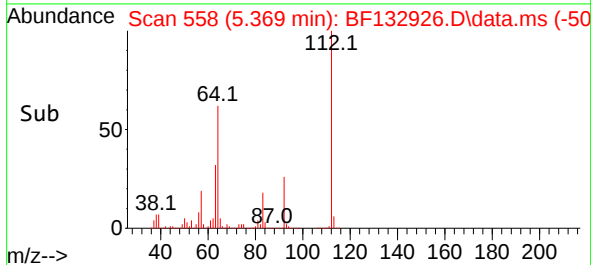
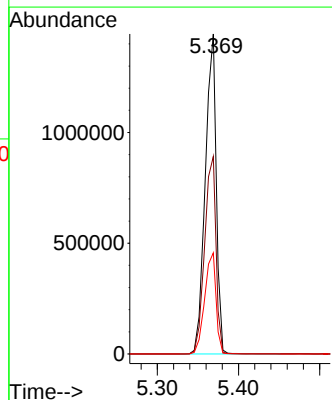
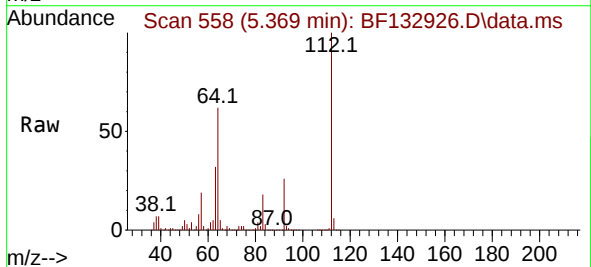
Instrument :  
BNA\_F  
ClientSampleId :  
SB-16-0-2-20230413

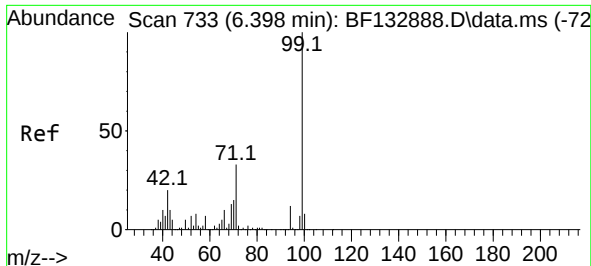
Tgt Ion:152 Resp: 277699  
Ion Ratio Lower Upper  
152 100  
150 157.2 122.8 184.2  
115 62.4 47.3 70.9



#5  
2-Fluorophenol  
Concen: 76.401 ng  
RT: 5.369 min Scan# 558  
Delta R.T. 0.006 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:112 Resp: 1356831  
Ion Ratio Lower Upper  
112 100  
64 61.7 51.8 77.8  
63 31.6 26.3 39.5

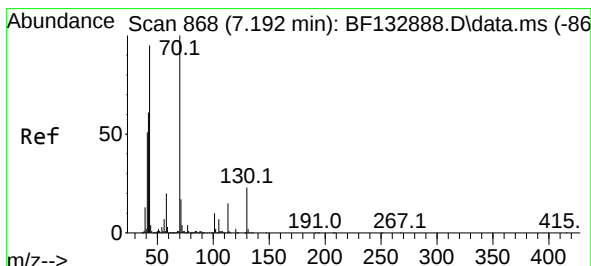
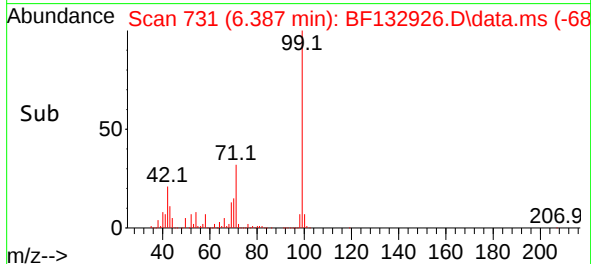
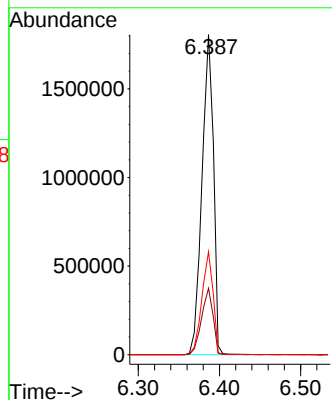
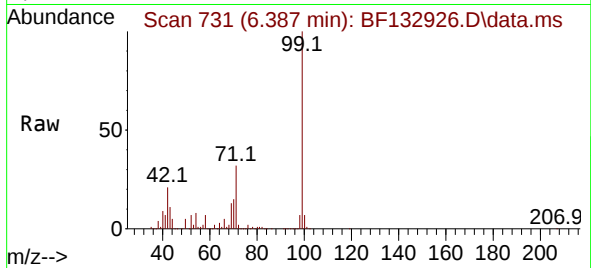




#7  
Phenol-d6  
Concen: 78.329 ng  
RT: 6.387 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

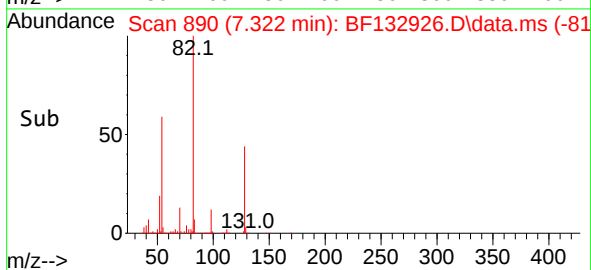
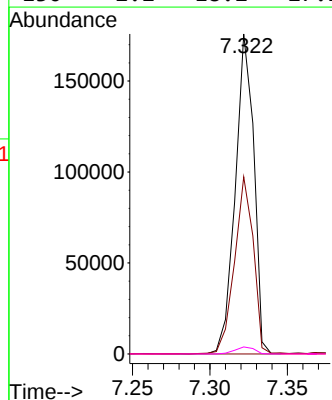
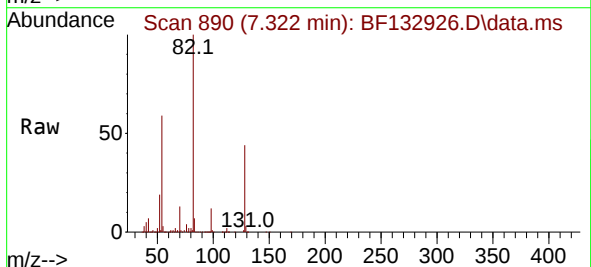
Instrument :  
BNA\_F  
ClientSampleId :  
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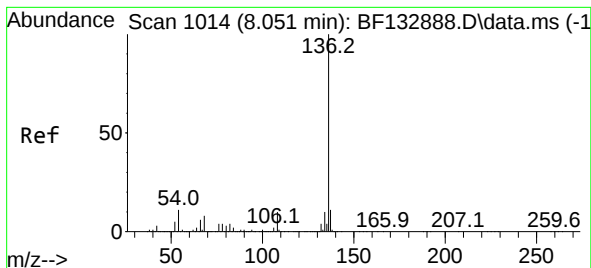
Tgt Ion: 99 Resp: 1775068  
Ion Ratio Lower Upper  
99 100  
42 20.8 16.1 24.1  
71 32.2 26.1 39.1



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.339 ng  
RT: 7.322 min Scan# 890  
Delta R.T. 0.129 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion: 70 Resp: 146241  
Ion Ratio Lower Upper  
70 100  
42 55.3 49.0 73.6  
101 0.0 8.1 12.1#  
130 2.2 18.2 27.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.045 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132926.D

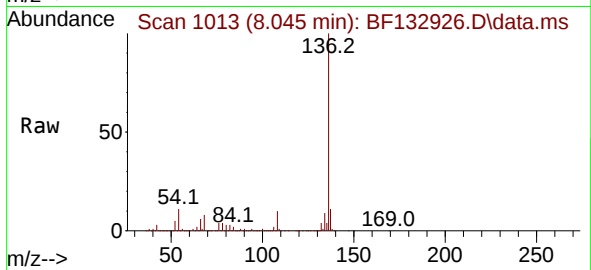
Acq: 19 Apr 2023 22:45

Instrument :

BNA\_F

ClientSampleId :

SB-16-0-2-20230413



Tgt Ion:136 Resp: 1155770

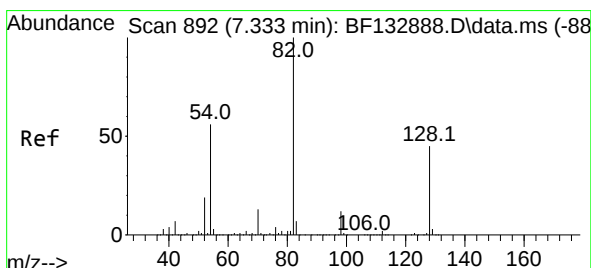
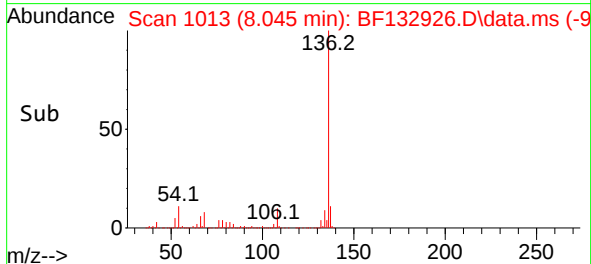
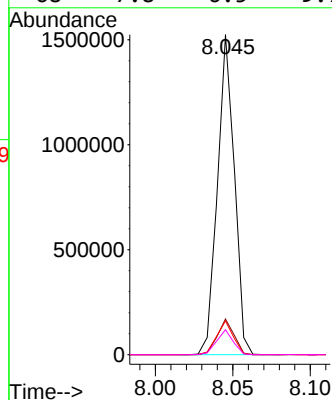
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 10.6 8.9 13.3

68 7.8 6.5 9.7



#23

Nitrobenzene-d5

Concen: 50.338 ng

RT: 7.322 min Scan# 890

Delta R.T. -0.012 min

Lab File: BF132926.D

Acq: 19 Apr 2023 22:45

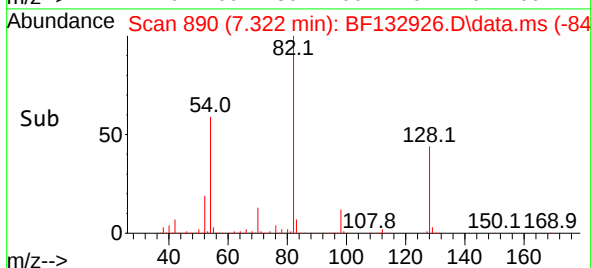
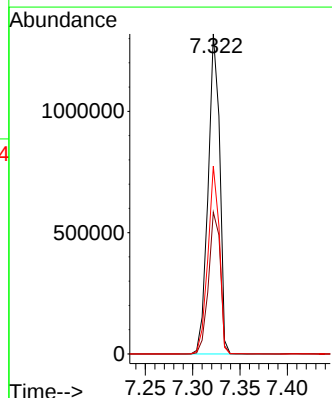
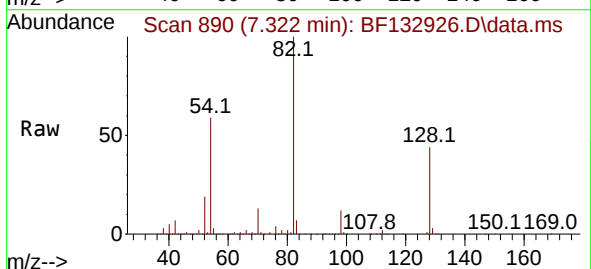
Tgt Ion: 82 Resp: 1116154

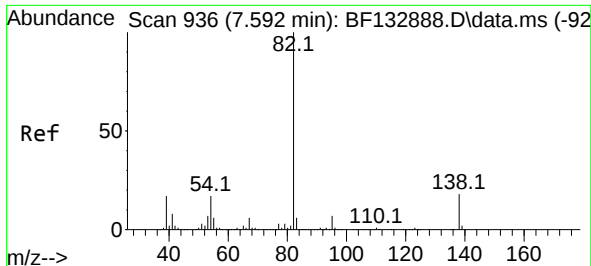
Ion Ratio Lower Upper

82 100

128 44.3 35.7 53.5

54 58.7 44.7 67.1

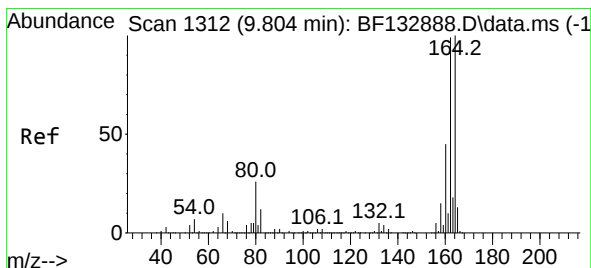
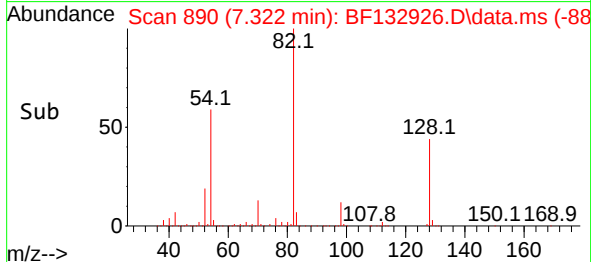
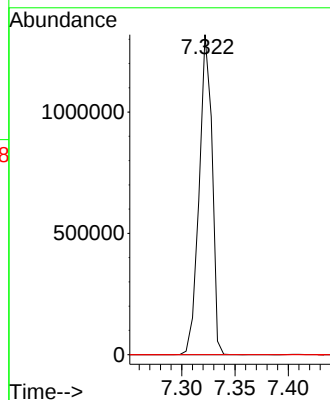
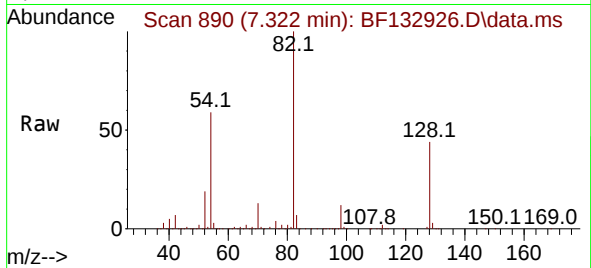




#25  
Isophorone  
Concen: 26.533 ng  
RT: 7.322 min Scan# 890  
Delta R.T. -0.271 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

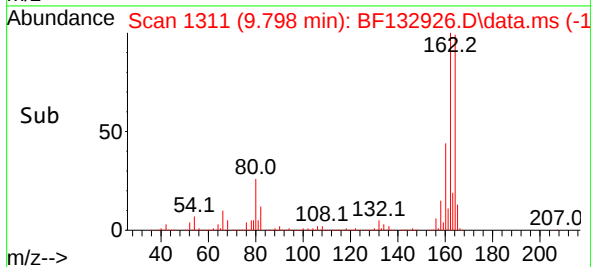
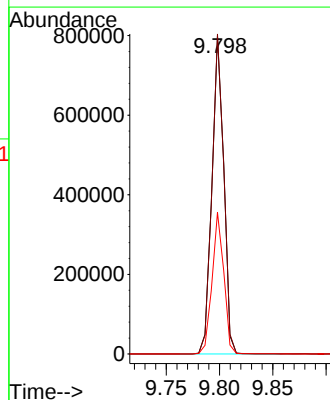
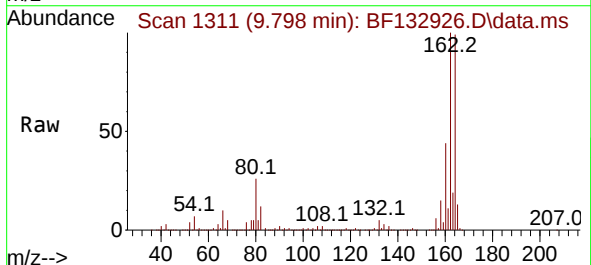
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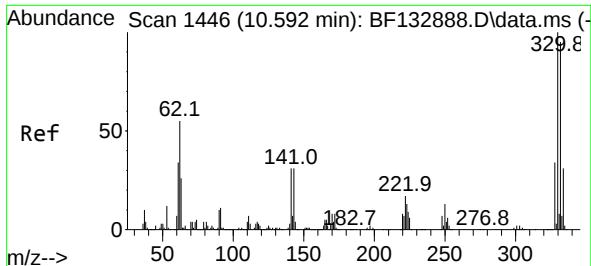
Tgt Ion: 82 Resp: 1115950  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.3 7.9#  
138 0.0 14.2 21.2#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.798 min Scan# 1311  
Delta R.T. -0.006 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:164 Resp: 620398  
Ion Ratio Lower Upper  
164 100  
162 100.6 79.1 118.7  
160 44.5 35.6 53.4

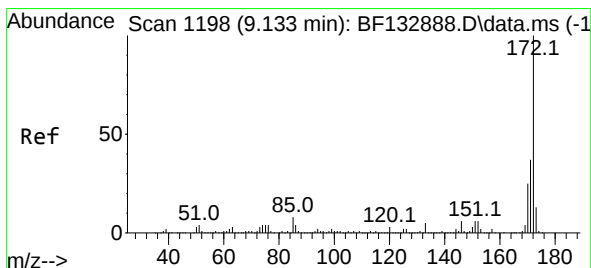
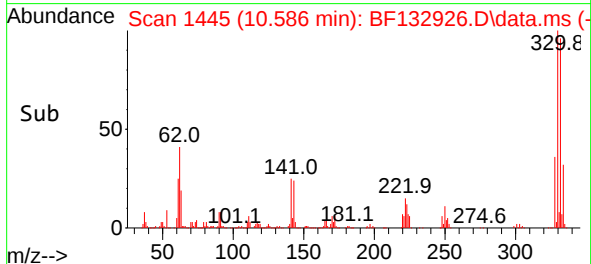
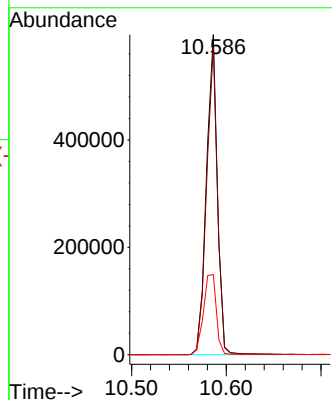
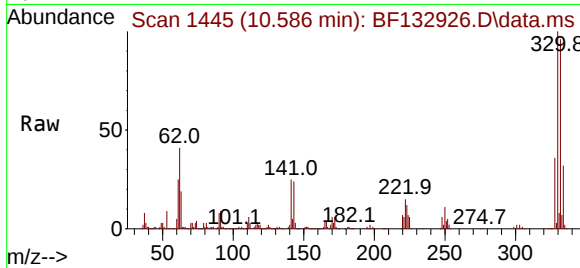




#42  
2,4,6-Tribromophenol  
Concen: 77.136 ng  
RT: 10.586 min Scan# 1445  
Delta R.T. -0.006 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

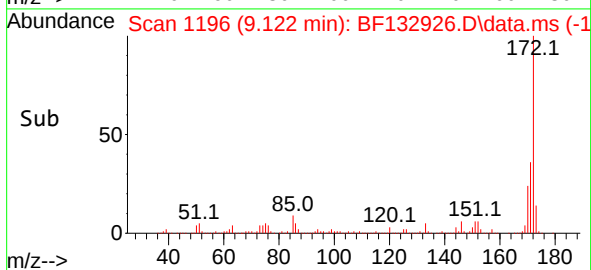
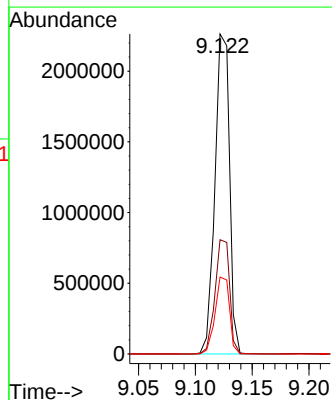
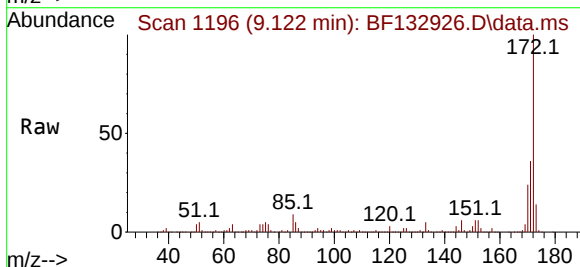
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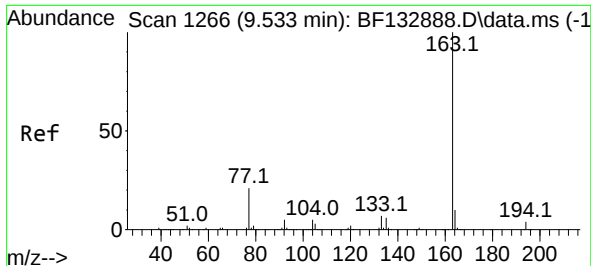
Tgt Ion:330 Resp: 479989  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.3 114.5  
141 29.6 23.9 35.9



#45  
2-Fluorobiphenyl  
Concen: 50.083 ng  
RT: 9.122 min Scan# 1196  
Delta R.T. -0.012 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:172 Resp: 2022598  
Ion Ratio Lower Upper  
172 100  
171 35.7 29.4 44.0  
170 24.0 20.1 30.1

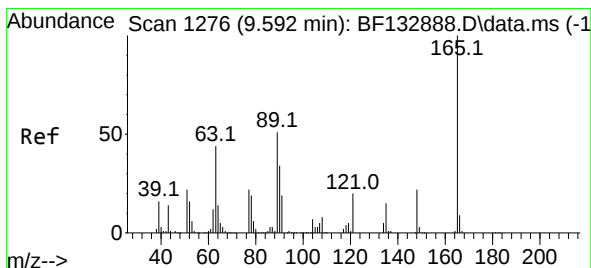
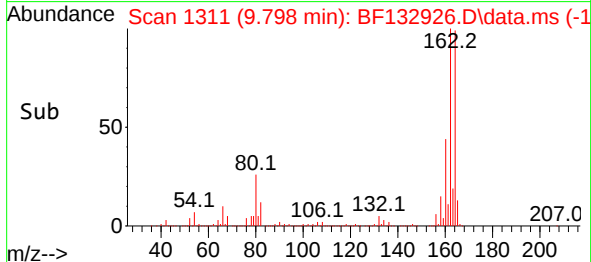
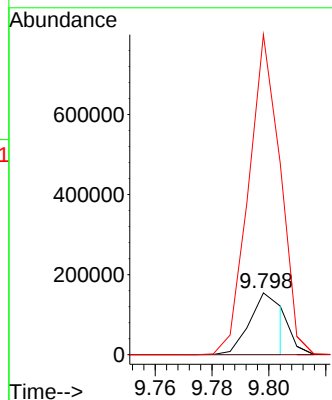
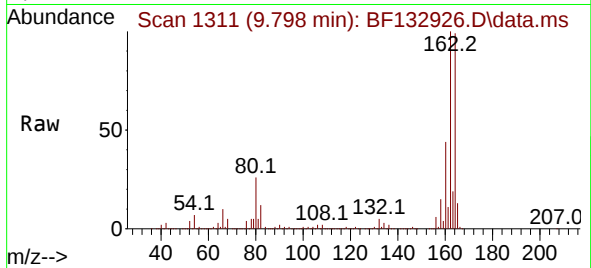




#50  
Dimethylphthalate  
Concen: 2.883 ng  
RT: 9.798 min Scan# 1311  
Delta R.T. 0.265 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

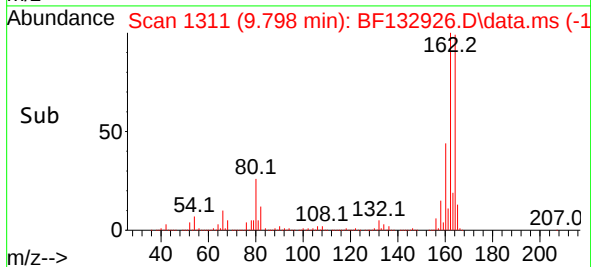
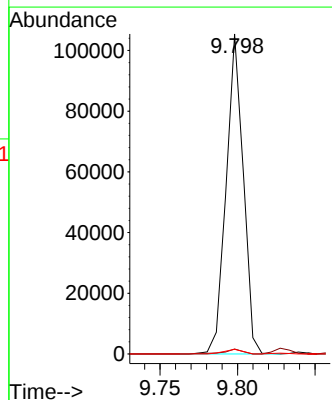
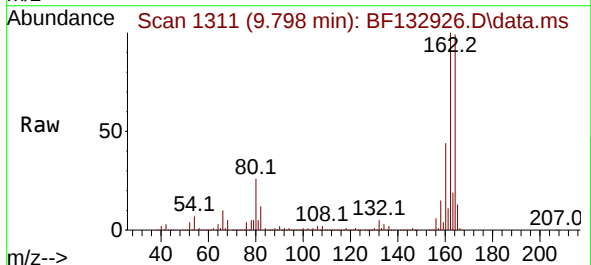
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ClientSampleId :  
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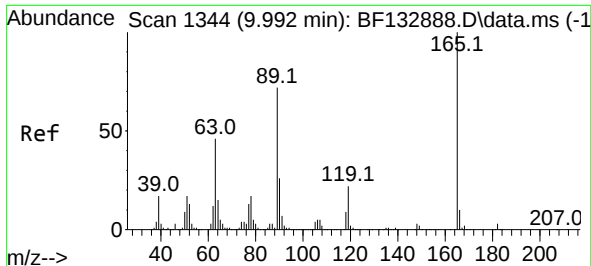
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Ion Ratio Lower Upper  
163 100  
194 0.0 3.4 5.0#  
164 518.3 8.3 12.5#



#51  
2,6-Dinitrotoluene  
Concen: 8.589 ng  
RT: 9.798 min Scan# 1311  
Delta R.T. 0.206 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:165 Resp: 80772  
Ion Ratio Lower Upper  
165 100  
63 1.6 42.6 63.8#  
89 1.4 41.0 61.4#

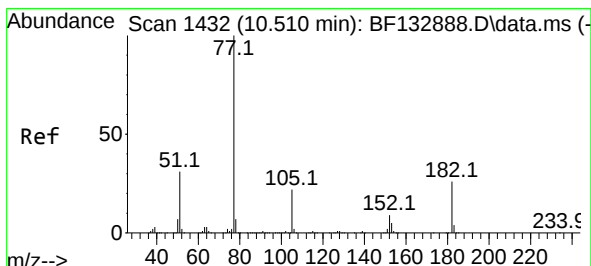
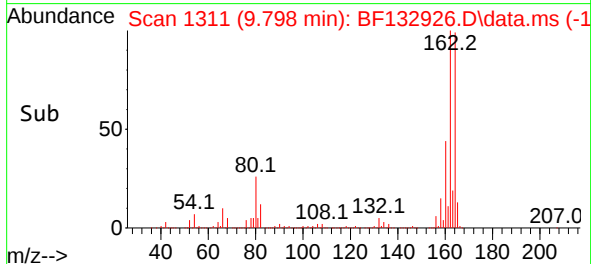
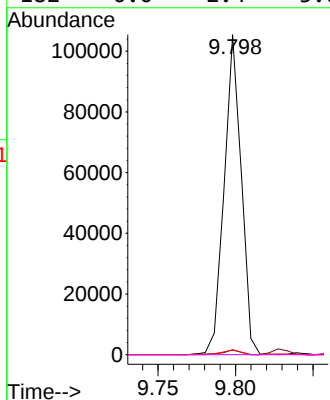
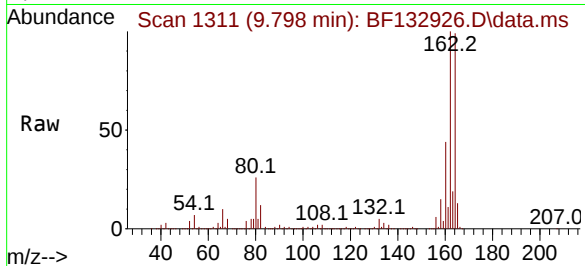




#57  
2,4-Dinitrotoluene  
Concen: 6.959 ng  
RT: 9.798 min Scan# 11  
Delta R.T. -0.194 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

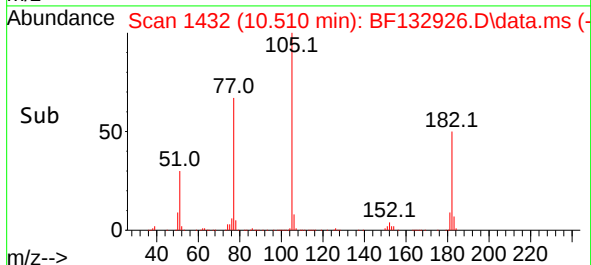
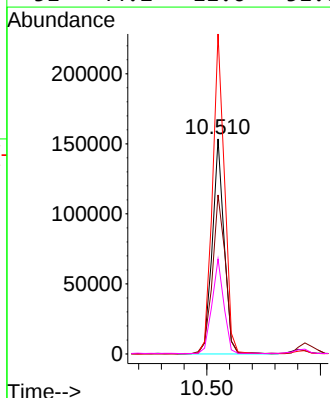
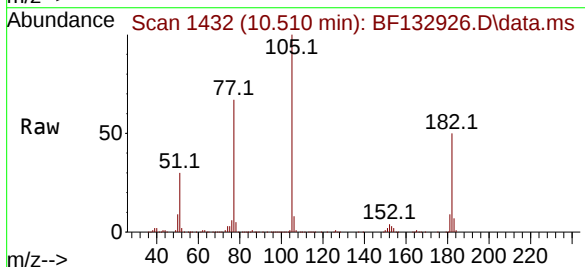
Instrument :  
BNA\_F  
ClientSampleId :  
SB-16-0-2-20230413

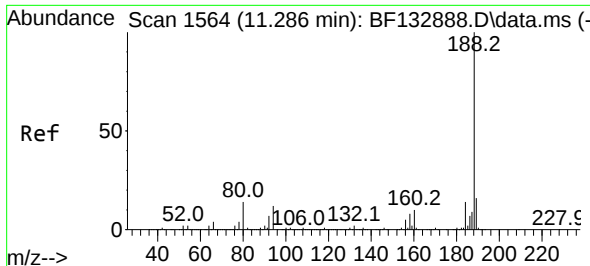
Tgt Ion:165 Resp: 80772  
Ion Ratio Lower Upper  
165 100  
63 1.6 37.0 55.6#  
89 1.4 57.8 86.6#  
182 0.0 2.4 3.6#



#63  
Azobenzene  
Concen: 2.495 ng  
RT: 10.510 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion: 77 Resp: 111710  
Ion Ratio Lower Upper  
77 100  
182 74.0 6.0 46.0#  
105 148.8 1.6 41.6#  
51 44.2 11.6 51.6

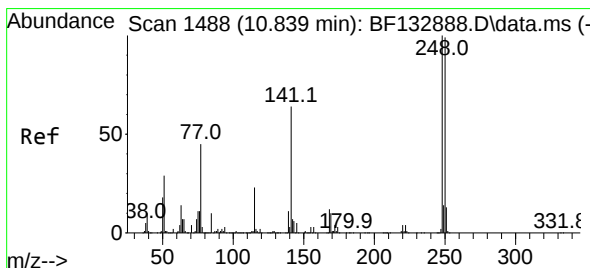
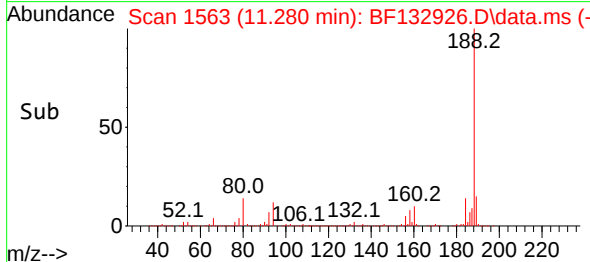
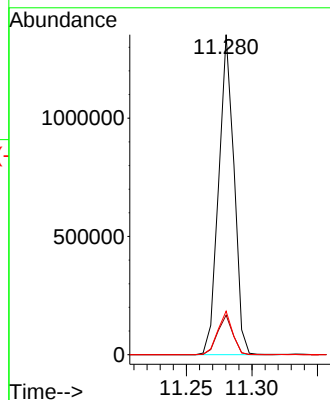
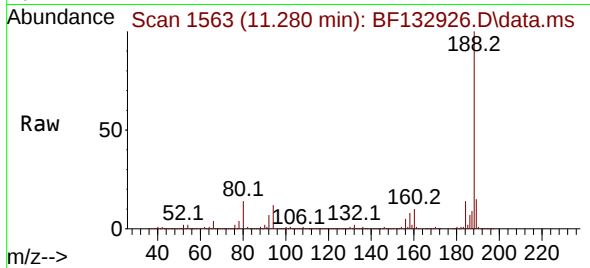




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.280 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

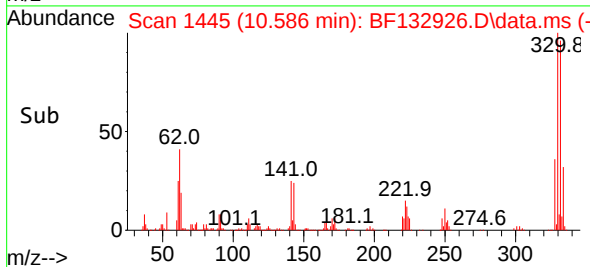
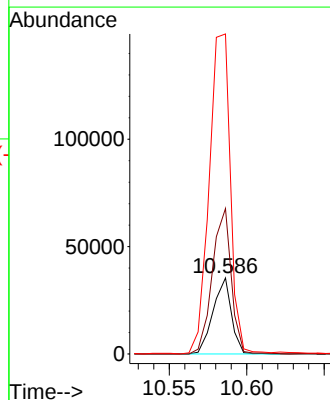
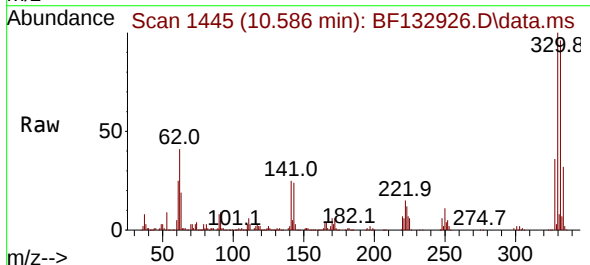
Instrument :  
BNA\_F  
ClientSampleId :  
SB-16-0-2-20230413

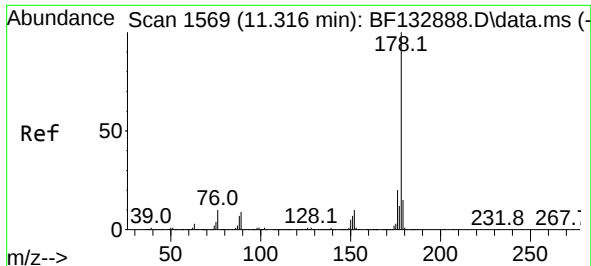
Tgt Ion:188 Resp: 1099044  
Ion Ratio Lower Upper  
188 100  
94 12.3 9.9 14.9  
80 13.6 10.8 16.2



#67  
4-Bromophenyl-phenylether  
Concen: 2.333 ng  
RT: 10.586 min Scan# 1445  
Delta R.T. -0.253 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:248 Resp: 29274  
Ion Ratio Lower Upper  
248 100  
250 191.4 79.1 118.7#  
141 421.2 51.0 76.6#

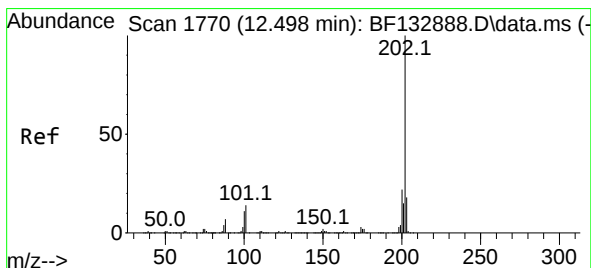
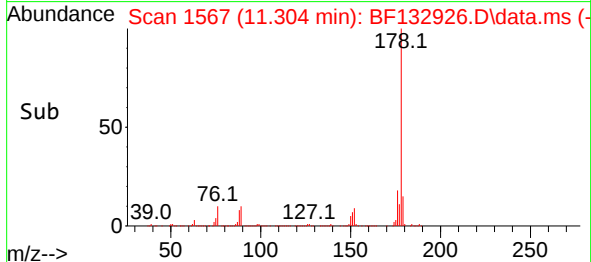
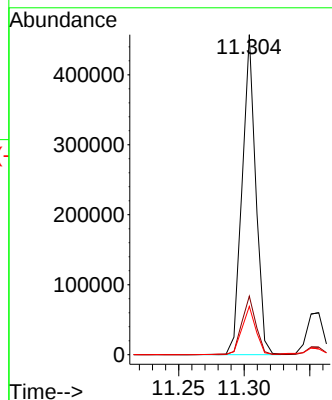
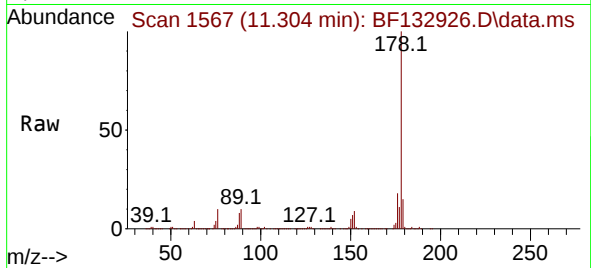




#71  
Phenanthrene  
Concen: 5.611 ng  
RT: 11.304 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

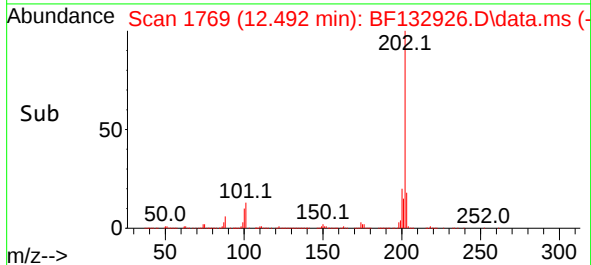
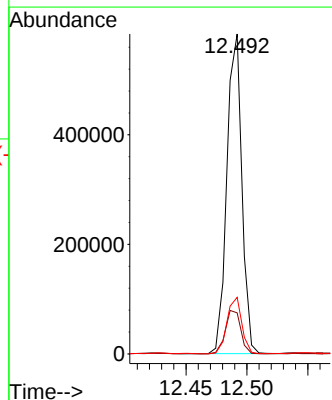
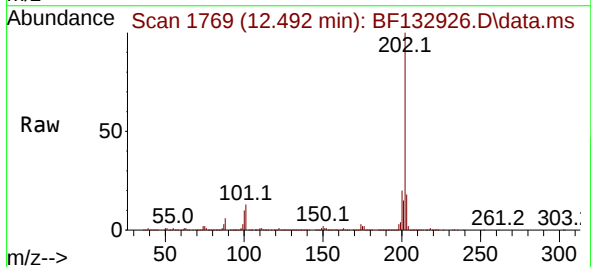
Instrument :  
BNA\_F  
ClientSampleId :  
SB-16-0-2-20230413

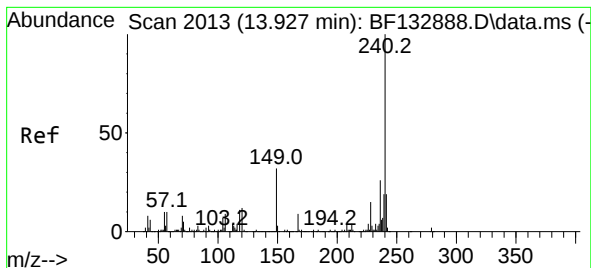
Tgt Ion:178 Resp: 331714  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.9 23.9  
179 15.1 12.3 18.5



#75  
Fluoranthene  
Concen: 8.523 ng  
RT: 12.492 min Scan# 1769  
Delta R.T. -0.006 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:202 Resp: 501079  
Ion Ratio Lower Upper  
202 100  
101 12.9 0.0 34.5  
203 17.7 0.0 38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.915 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF132926.D

Acq: 19 Apr 2023 22:45

Instrument :

BNA\_F

ClientSampleId :

SB-16-0-2-20230413

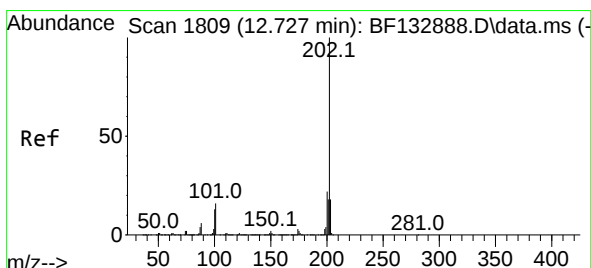
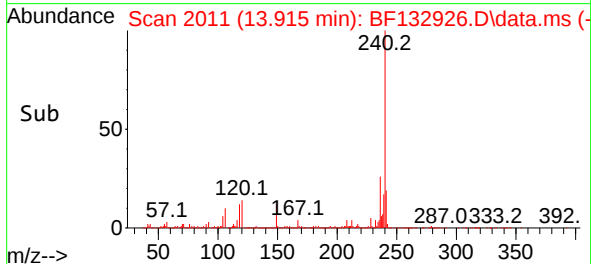
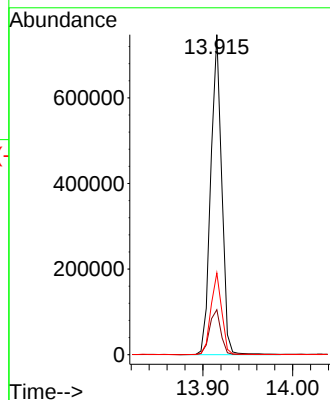
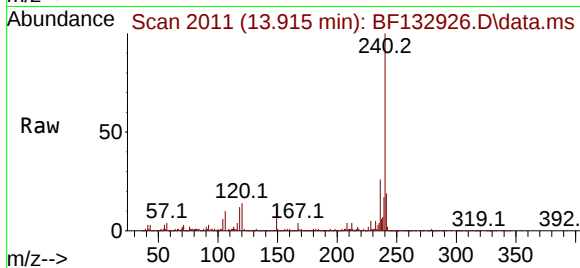
Tgt Ion:240 Resp: 632500

Ion Ratio Lower Upper

240 100

120 14.1 10.0 15.0

236 25.5 20.8 31.2



#78

Pyrene

Concen: 8.438 ng

RT: 12.716 min Scan# 1807

Delta R.T. -0.012 min

Lab File: BF132926.D

Acq: 19 Apr 2023 22:45

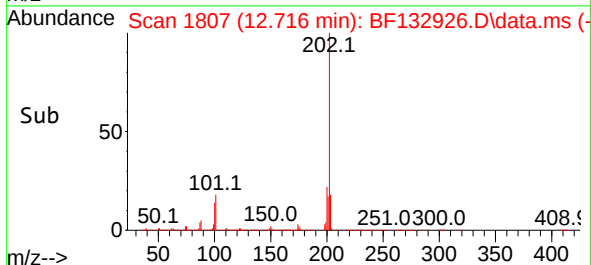
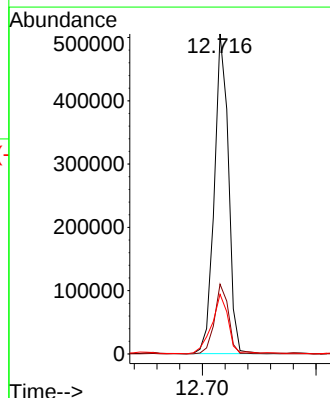
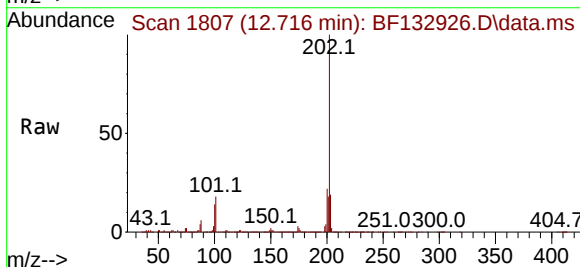
Tgt Ion:202 Resp: 436398

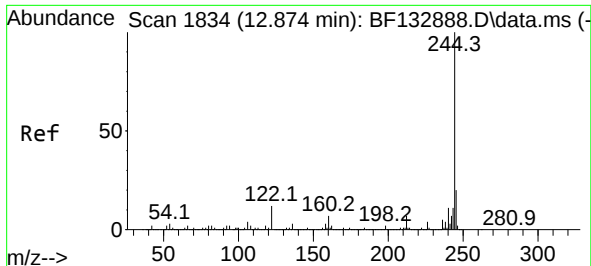
Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

203 18.7 14.6 22.0

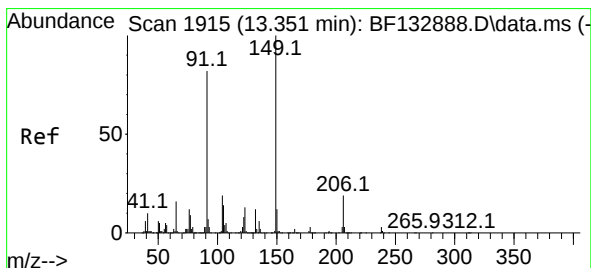
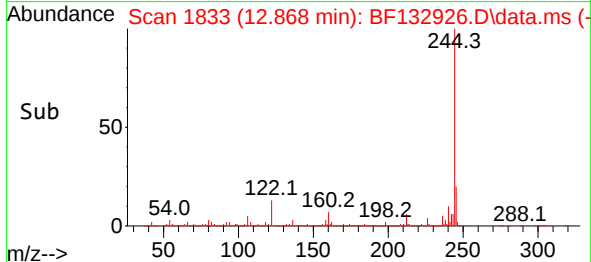
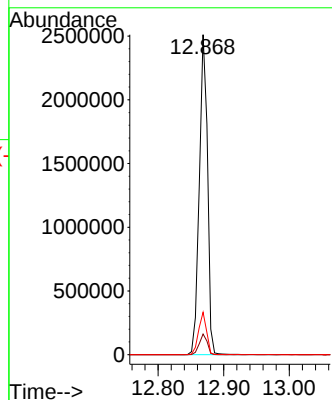
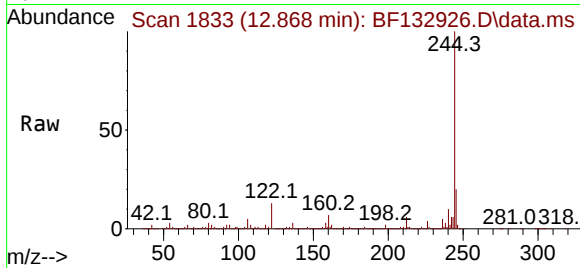




#79  
 Terphenyl-d14  
 Concen: 59.103 ng  
 RT: 12.868 min Scan# 1833  
 Delta R.T. -0.006 min  
 Lab File: BF132926.D  
 Acq: 19 Apr 2023 22:45

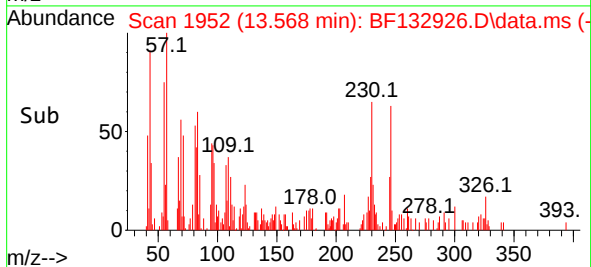
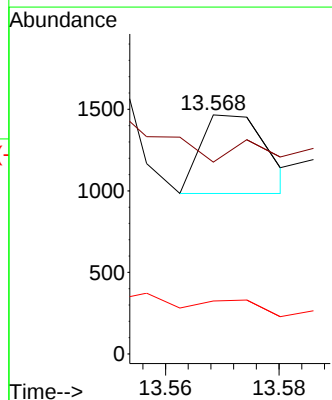
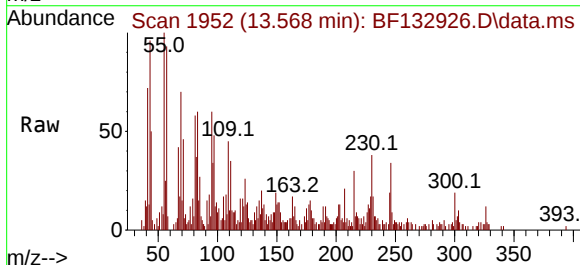
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-16-0-2-20230413

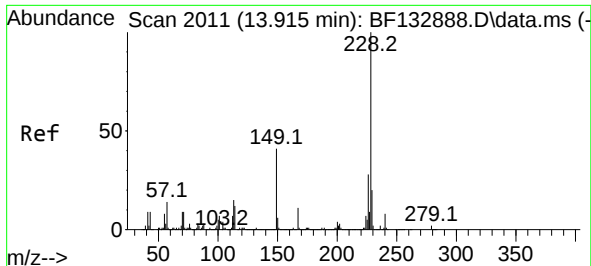
Tgt Ion:244 Resp: 2191146  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.4 8.0  
 122 13.2 9.6 14.4



#80  
 Butylbenzylphthalate  
 Concen: 5.162 ng  
 RT: 13.568 min Scan# 1952  
 Delta R.T. 0.217 min  
 Lab File: BF132926.D  
 Acq: 19 Apr 2023 22:45

Tgt Ion:149 Resp: 391  
 Ion Ratio Lower Upper  
 149 100  
 91 80.2 65.4 98.0  
 206 22.2 15.6 23.4

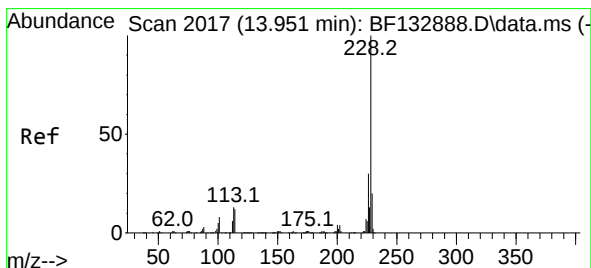
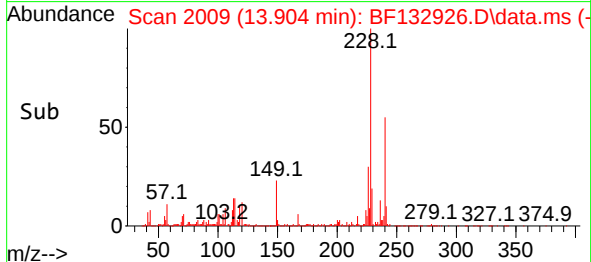
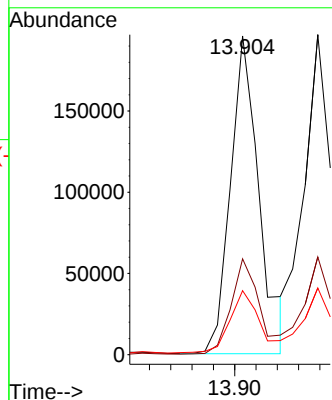
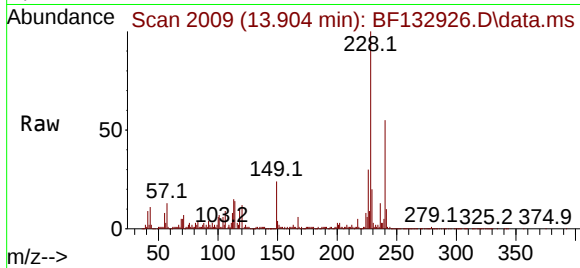




#81  
Benzo(a)anthracene  
Concen: 4.228 ng  
RT: 13.904 min Scan# 2011  
Delta R.T. -0.012 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

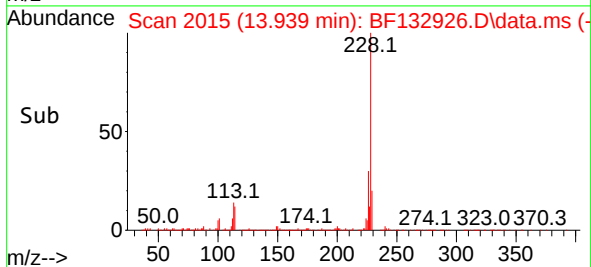
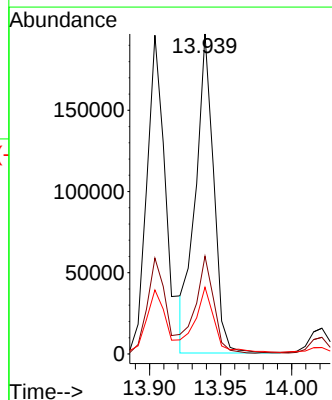
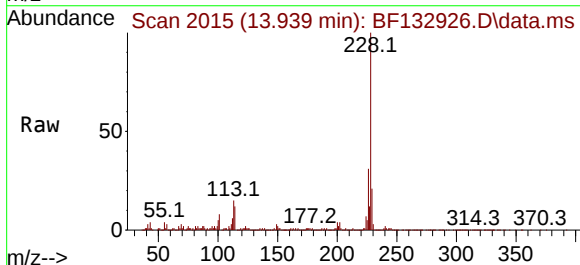
Instrument :  
BNA\_F  
ClientSampleId :  
SB-16-0-2-20230413

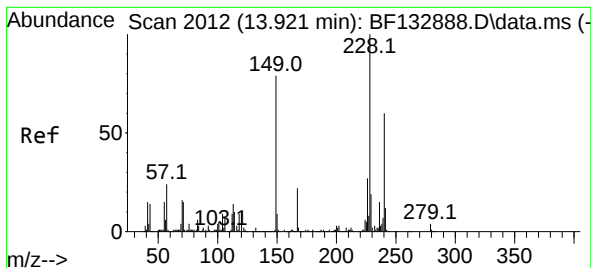
Tgt Ion:228 Resp: 181874  
Ion Ratio Lower Upper  
228 100  
226 30.1 22.4 33.6  
229 20.1 16.2 24.2



#83  
Chrysene  
Concen: 4.090 ng  
RT: 13.939 min Scan# 2015  
Delta R.T. -0.012 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:228 Resp: 174865  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.3 36.5  
229 20.9 16.2 24.4

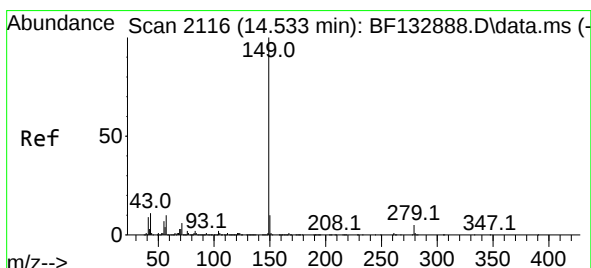
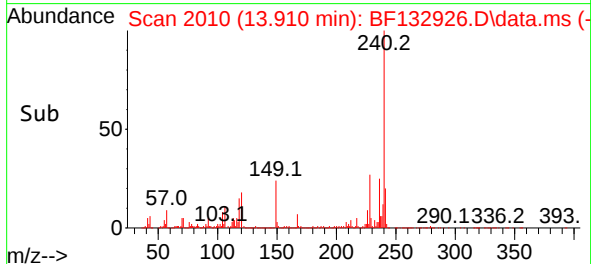
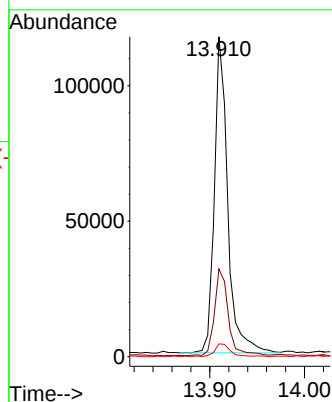
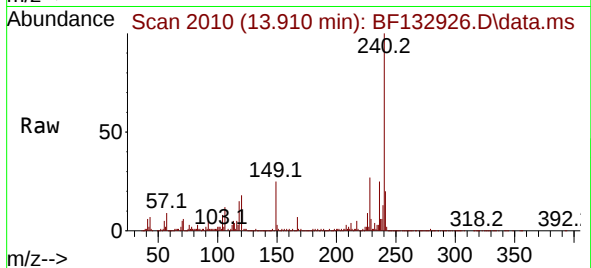




#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 6.950 ng  
 RT: 13.910 min Scan# 2012  
 Delta R.T. -0.011 min  
 Lab File: BF132926.D  
 Acq: 19 Apr 2023 22:45

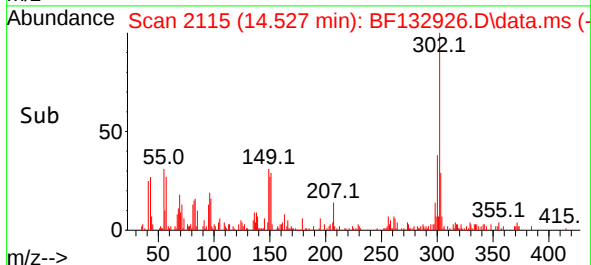
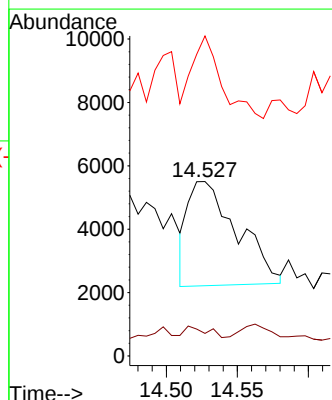
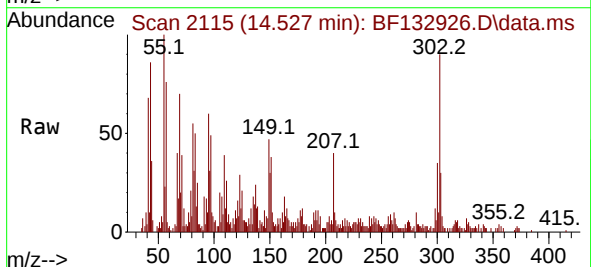
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-16-0-2-20230413

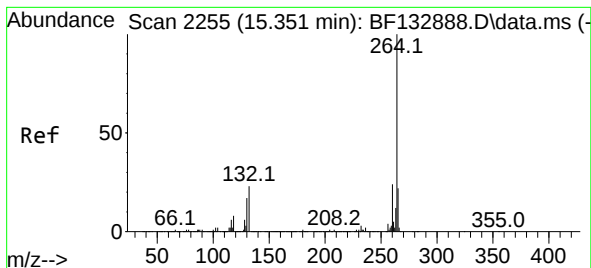
Tgt Ion:149 Resp: 113707  
 Ion Ratio Lower Upper  
 149 100  
 167 27.4 22.2 33.4  
 279 4.0 4.2 6.2#



#85  
 Di-n-octyl phthalate  
 Concen: 6.577 ng  
 RT: 14.527 min Scan# 2115  
 Delta R.T. -0.006 min  
 Lab File: BF132926.D  
 Acq: 19 Apr 2023 22:45

Tgt Ion:149 Resp: 7958  
 Ion Ratio Lower Upper  
 149 100  
 167 4.9 1.2 1.8#  
 43 47.1 11.5 17.3#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.345 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF132926.D

Acq: 19 Apr 2023 22:45

Instrument :

BNA\_F

ClientSampleId :

SB-16-0-2-20230413

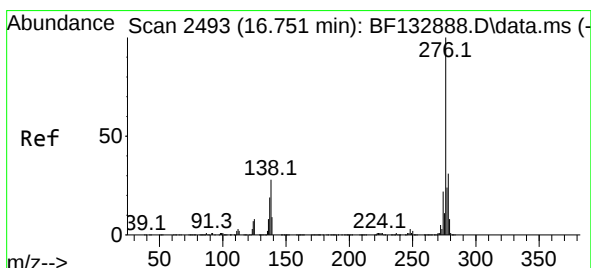
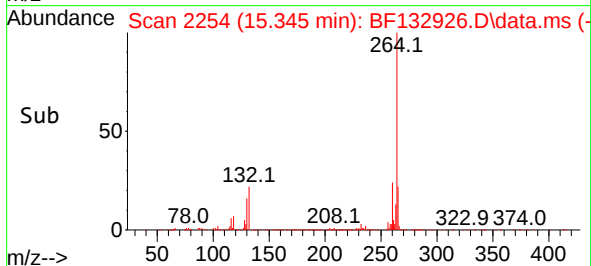
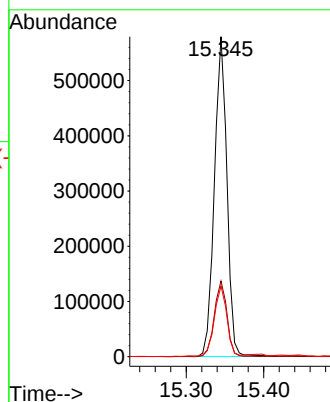
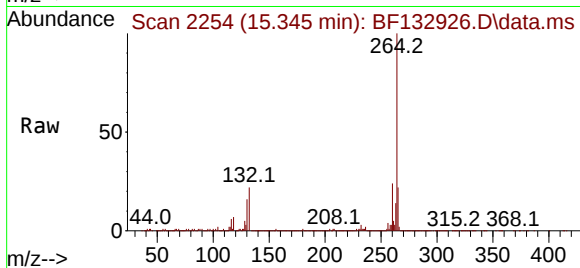
Tgt Ion:264 Resp: 649855

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.6

265 22.1 17.7 26.5



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.402 ng

RT: 16.727 min Scan# 2489

Delta R.T. -0.024 min

Lab File: BF132926.D

Acq: 19 Apr 2023 22:45

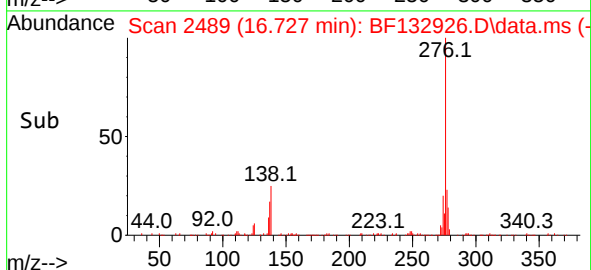
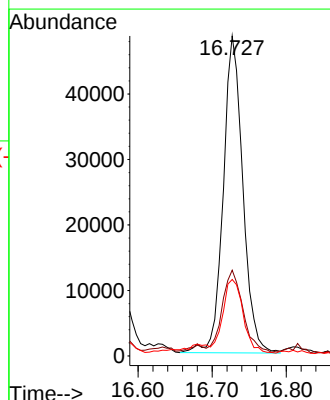
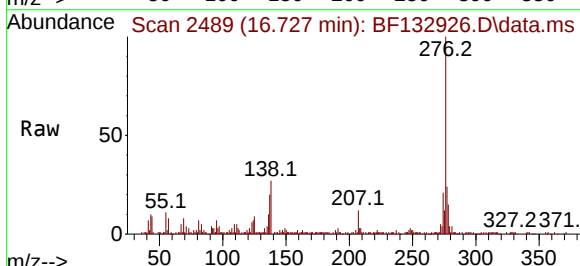
Tgt Ion:276 Resp: 89178

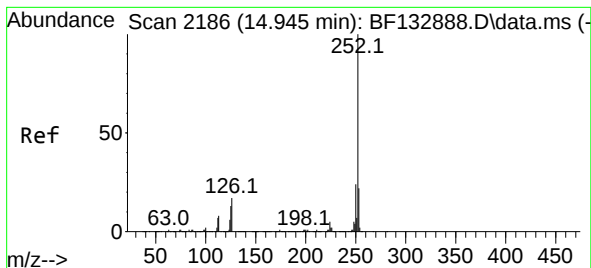
Ion Ratio Lower Upper

276 100

138 27.9 25.5 38.3

277 23.9 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 7.268 ng

RT: 14.933 min Scan# 2184

Delta R.T. -0.012 min

Lab File: BF132926.D

Acq: 19 Apr 2023 22:45

Instrument :

BNA\_F

ClientSampleId :

SB-16-0-2-20230413

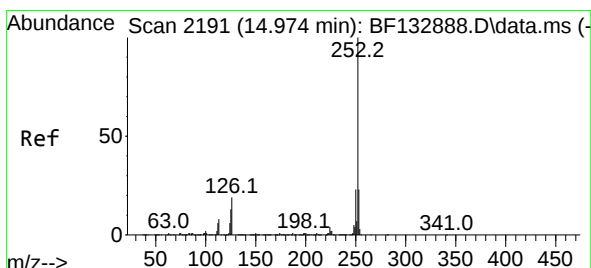
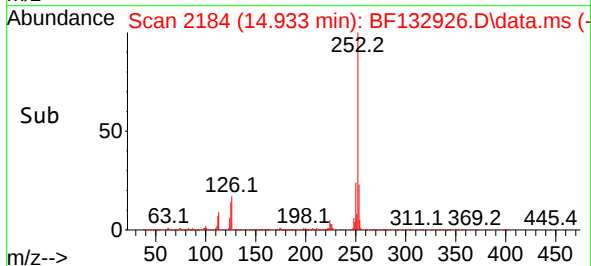
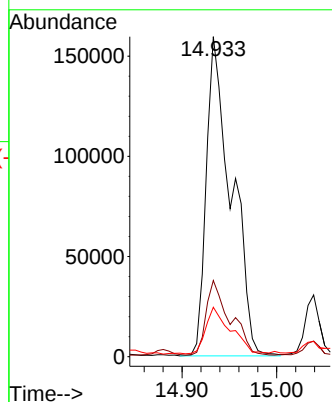
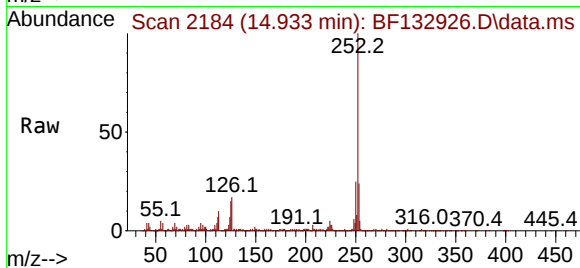
Tgt Ion:252 Resp: 294207

Ion Ratio Lower Upper

252 100

253 23.8 17.9 26.9

125 15.5 10.0 15.0#



#89

Benzo(k)fluoranthene

Concen: 7.296 ng

RT: 14.933 min Scan# 2184

Delta R.T. -0.041 min

Lab File: BF132926.D

Acq: 19 Apr 2023 22:45

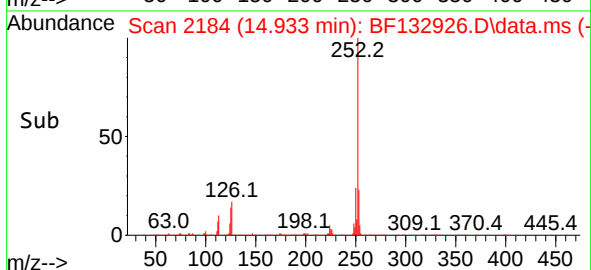
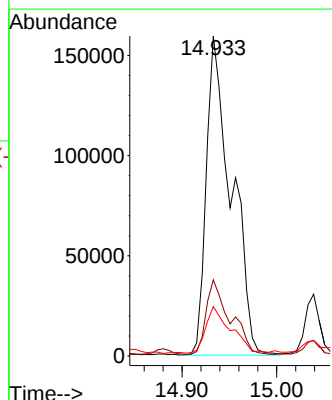
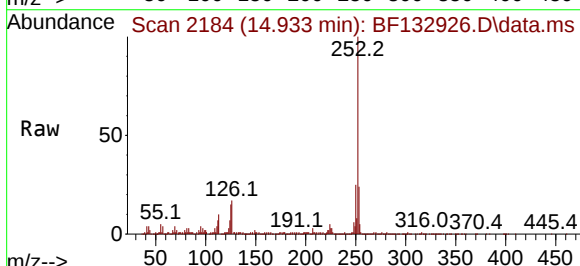
Tgt Ion:252 Resp: 294207

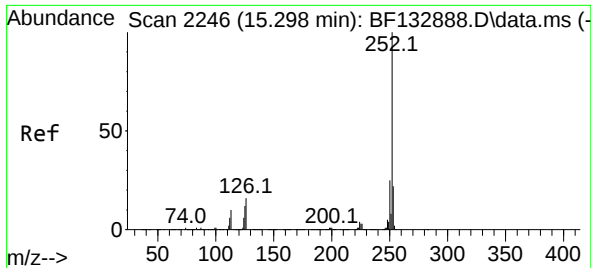
Ion Ratio Lower Upper

252 100

253 23.8 18.0 27.0

125 15.5 10.0 15.0#

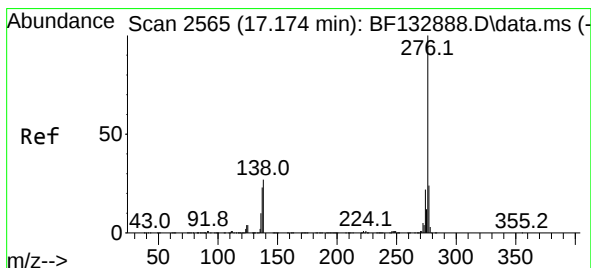
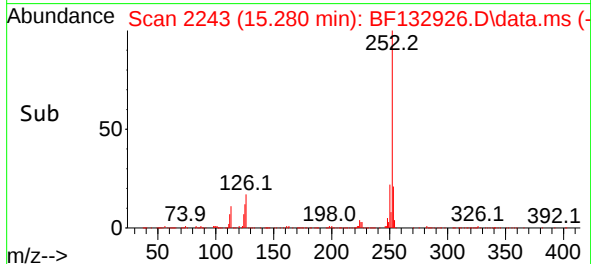
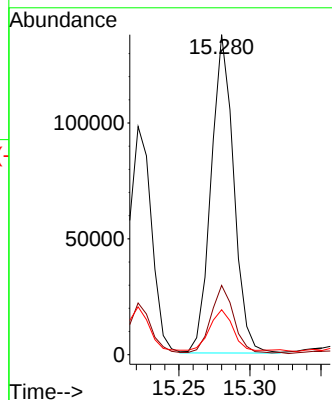
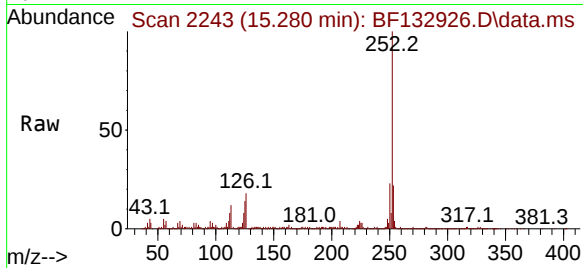




#90  
Benzo(a)pyrene  
Concen: 4.125 ng  
RT: 15.280 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Instrument :  
BNA\_F  
ClientSampleId :  
SB-16-0-2-20230413

Tgt Ion:252 Resp: 152561  
Ion Ratio Lower Upper  
252 100  
253 21.7 17.7 26.5  
125 14.0 9.9 14.9



#92  
Benzo(g,h,i)perylene  
Concen: 2.667 ng  
RT: 17.145 min Scan# 2560  
Delta R.T. -0.029 min  
Lab File: BF132926.D  
Acq: 19 Apr 2023 22:45

Tgt Ion:276 Resp: 80803  
Ion Ratio Lower Upper  
276 100  
277 26.7 18.9 28.3  
138 29.6 21.7 32.5

