

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF060724\  
 Data File : BF138168.D  
 Acq On : 07 Jun 2024 19:05  
 Operator : CG\JU  
 Sample : P2707-08  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHA-1

Quant Time: Jun 07 22:54:01 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 06 05:19:29 2024  
 Response via : Initial Calibration

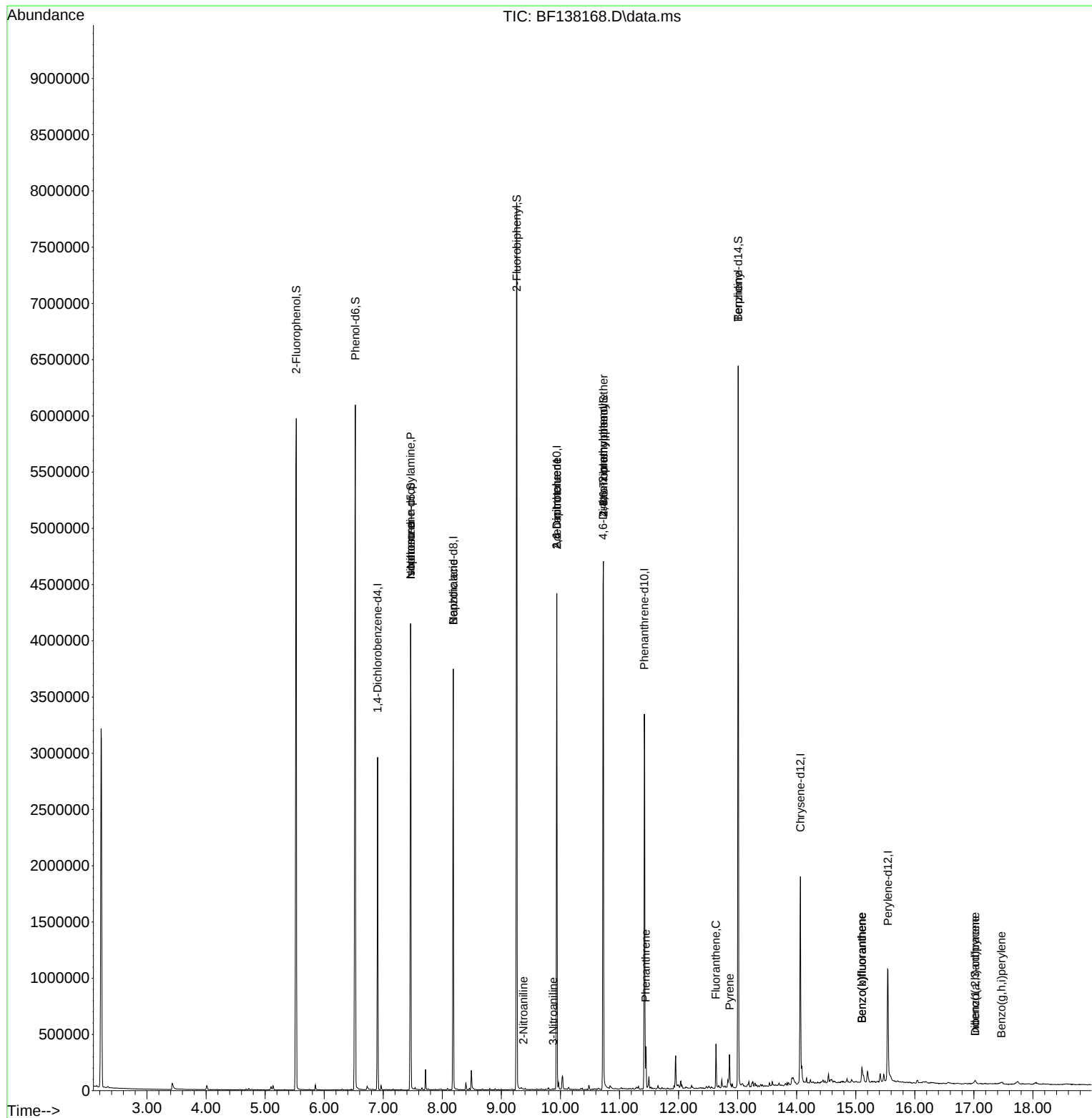
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min)    |
|-------------------------------|--------|------|----------|-----------|-------|-------------|
| Internal Standards            |        |      |          |           |       |             |
| 1) 1,4-Dichlorobenzene-d4     | 6.904  | 152  | 384148   | 20.000    | ng    | 0.00        |
| 21) Naphthalene-d8            | 8.186  | 136  | 1493114  | 20.000    | ng    | 0.00        |
| 39) Acenaphthene-d10          | 9.939  | 164  | 826350   | 20.000    | ng    | 0.00        |
| 64) Phenanthrene-d10          | 11.422 | 188  | 1233980  | 20.000    | ng    | -0.01       |
| 76) Chrysene-d12              | 14.063 | 240  | 617925   | 20.000    | ng    | # 0.00      |
| 86) Perylene-d12              | 15.545 | 264  | 534148   | 20.000    | ng    | 0.00        |
| System Monitoring Compounds   |        |      |          |           |       |             |
| 5) 2-Fluorophenol             | 5.528  | 112  | 1791039  | 79.458    | ng    | 0.00        |
| 7) Phenol-d6                  | 6.528  | 99   | 2274070  | 79.738    | ng    | 0.00        |
| 23) Nitrobenzene-d5           | 7.463  | 82   | 1310917  | 59.735    | ng    | -0.01       |
| 42) 2,4,6-Tribromophenol      | 10.727 | 330  | 645499   | 81.169    | ng    | 0.00        |
| 45) 2-Fluorobiphenyl          | 9.263  | 172  | 2554239  | 54.047    | ng    | 0.00        |
| 79) Terphenyl-d14             | 13.010 | 244  | 2101534  | 50.869    | ng    | -0.01       |
| Target Compounds              |        |      |          |           |       |             |
| 9) Benzaldehyde               | 6.463  | 77   | 222      | Below Cal |       | Qvalue # 36 |
| 19) n-Nitroso-di-n-propyla... | 7.463  | 70   | 178050   | 9.791     | ng    | # 78        |
| 25) Isophorone                | 7.463  | 82   | 1310903  | 27.114    | ng    | # 63        |
| 32) Benzoic acid              | 8.186  | 122  | 284      | 7.958     | ng    | # 1         |
| 48) 2-Nitroaniline            | 9.375  | 65   | 267      | 4.818     | ng    | # 1         |
| 51) 2,6-Dinitrotoluene        | 9.939  | 165  | 108637   | 12.359    | ng    | # 25        |
| 53) 3-Nitroaniline            | 9.880  | 138  | 62       | 2.950     | ng    | # 3         |
| 57) 2,4-Dinitrotoluene        | 9.939  | 165  | 108638   | 11.244    | ng    | # 21        |
| 65) 4,6-Dinitro-2-methylph... | 10.722 | 198  | 1319     | 8.682     | ng    | # 1         |
| 67) 4-Bromophenyl-phenylether | 10.727 | 248  | 39070    | 2.781     | ng    | # 1         |
| 71) Phenanthrene              | 11.445 | 178  | 124137   | 2.090     | ng    | 95          |
| 75) Fluoranthene              | 12.633 | 202  | 139160   | 2.171     | ng    | 94          |
| 77) Benzidine                 | 13.010 | 184  | 25698    | 4.041     | ng    | # 93        |
| 78) Pyrene                    | 12.863 | 202  | 112408   | 2.011     | ng    | 95          |
| 87) Indeno(1,2,3-cd)pyrene    | 17.021 | 276  | 26927    | 4.341     | ng    | 95          |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 105220   | 3.133     | ng    | # 97        |
| 89) Benzo(k)fluoranthene      | 15.104 | 252  | 105220   | 3.286     | ng    | 97          |
| 91) Dibenzo(a,h)anthracene    | 17.021 | 278  | 13561    | 4.194     | ng    | 95          |
| 92) Benzo(g,h,i)perylene      | 17.468 | 276  | 21455    | 3.817     | ng    | 95          |

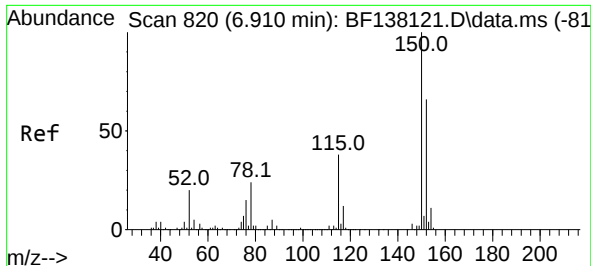
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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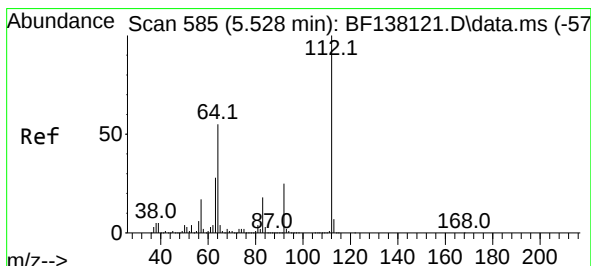
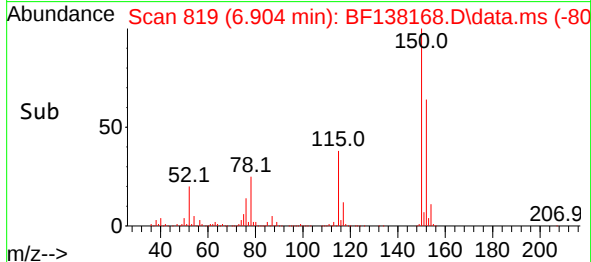
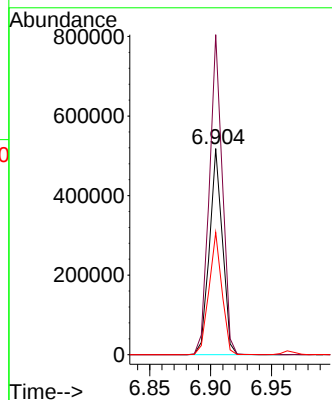
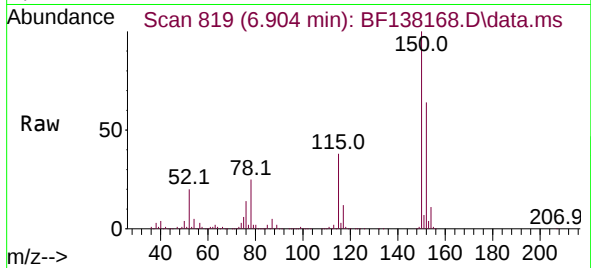




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.904 min Scan# 819  
 Delta R.T. -0.006 min  
 Lab File: BF138168.D  
 Acq: 07 Jun 2024 19:05

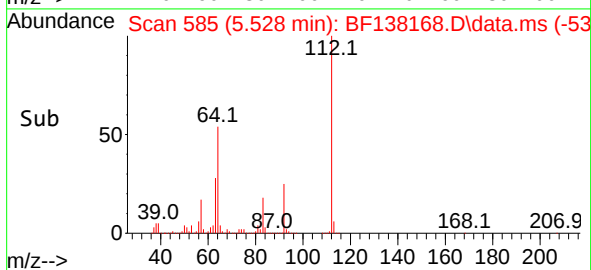
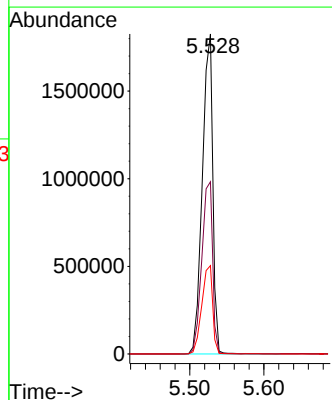
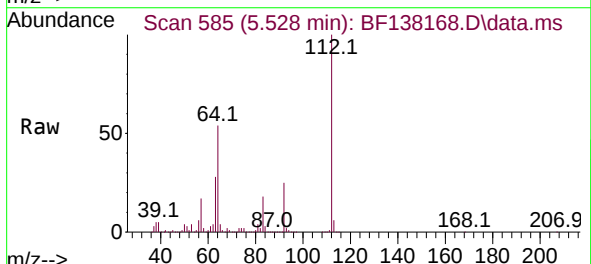
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHA-1

Tgt Ion:152 Resp: 384148  
 Ion Ratio Lower Upper  
 152 100  
 150 155.3 121.8 182.6  
 115 59.3 46.2 69.2



#5  
 2-Fluorophenol  
 Concen: 79.458 ng  
 RT: 5.528 min Scan# 585  
 Delta R.T. -0.000 min  
 Lab File: BF138168.D  
 Acq: 07 Jun 2024 19:05

Tgt Ion:112 Resp: 1791039  
 Ion Ratio Lower Upper  
 112 100  
 64 53.8 44.0 66.0  
 63 27.6 22.1 33.1

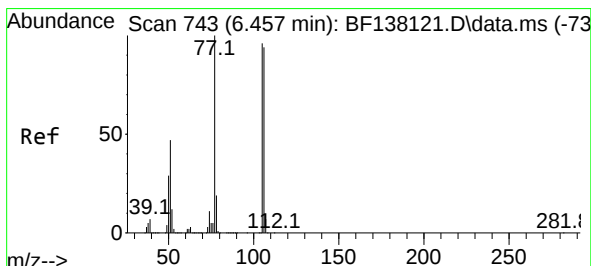
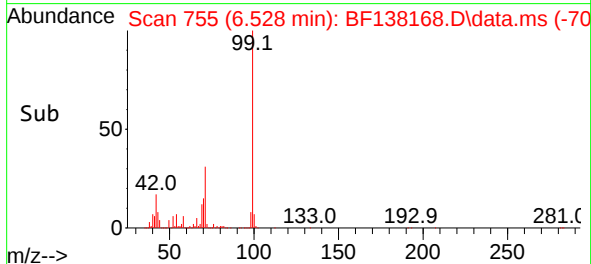
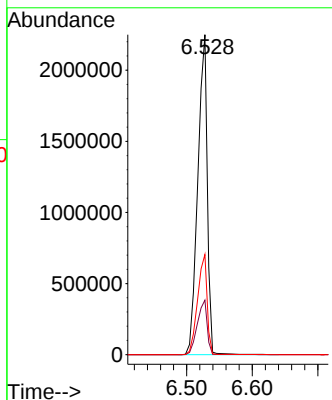
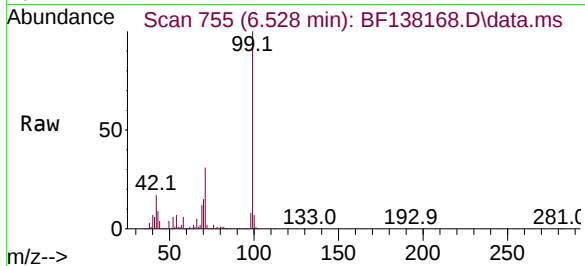




#7  
Phenol-d6  
Concen: 79.738 ng  
RT: 6.528 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

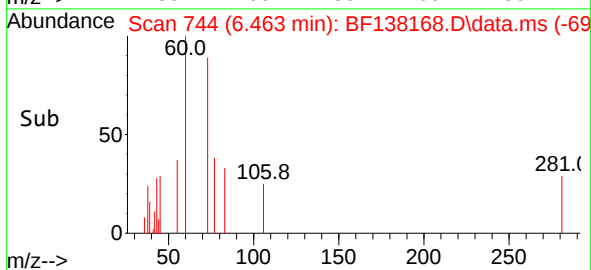
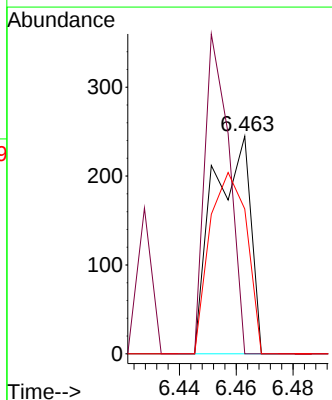
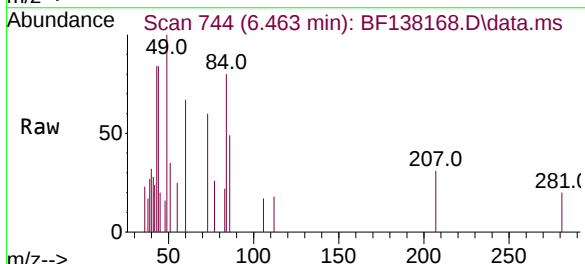
Instrument :  
BNA\_F  
ClientSampleId :  
CHA-1

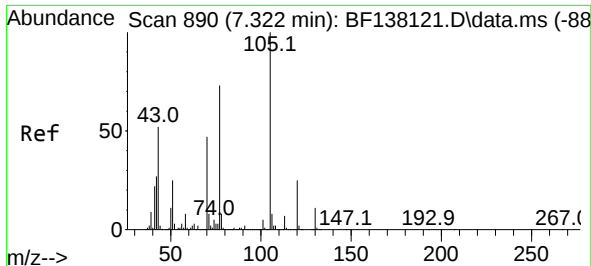
Tgt Ion: 99 Resp: 2274070  
Ion Ratio Lower Upper  
99 100  
42 17.1 14.4 21.6  
71 31.3 25.5 38.3



#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.463 min Scan# 744  
Delta R.T. 0.006 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

Tgt Ion: 77 Resp: 222  
Ion Ratio Lower Upper  
77 100  
105 0.0 75.8 115.8#  
106 66.5 73.9 113.9#

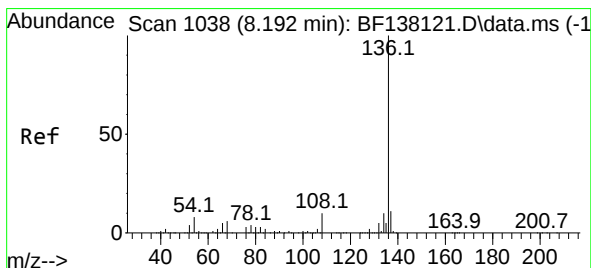
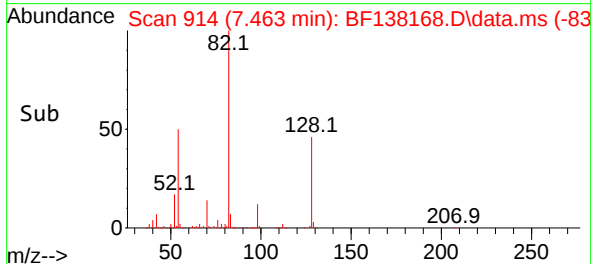
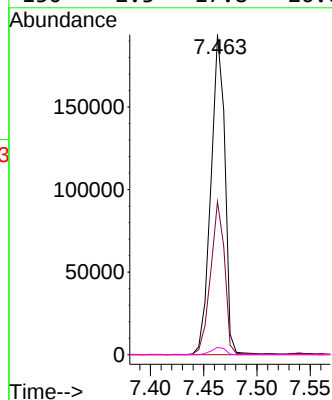
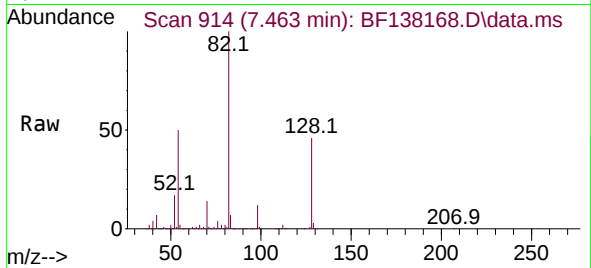




#19  
n-Nitroso-di-n-propylamine  
Concen: 9.791 ng  
RT: 7.463 min Scan# 914  
Delta R.T. 0.141 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

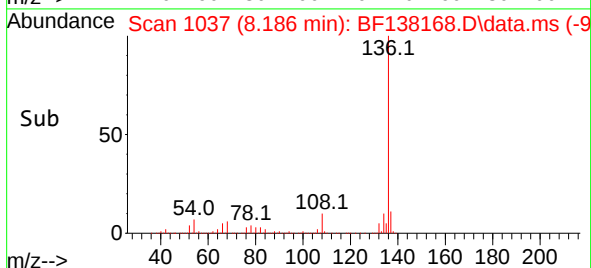
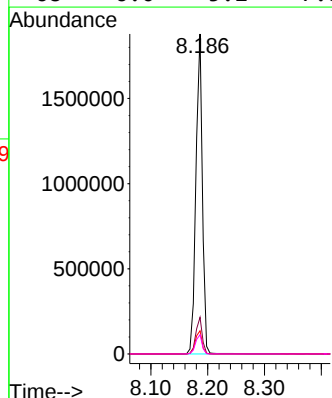
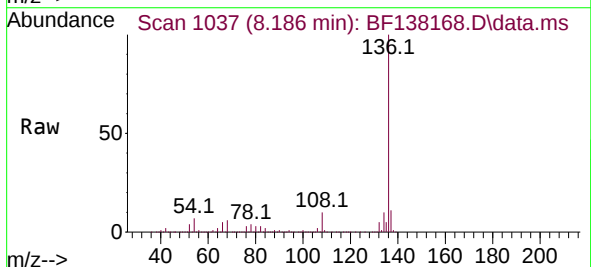
Instrument :  
BNA\_F  
ClientSampleId :  
CHA-1

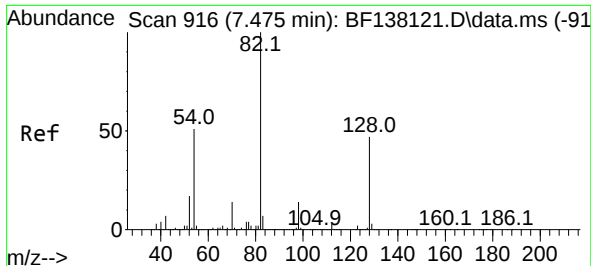
Tgt Ion: 70 Resp: 178050  
Ion Ratio Lower Upper  
70 100  
42 47.9 46.3 69.5  
101 0.0 7.7 11.5#  
130 2.3 17.8 26.6#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.186 min Scan# 1037  
Delta R.T. -0.006 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

Tgt Ion: 136 Resp: 1493114  
Ion Ratio Lower Upper  
136 100  
137 11.5 9.1 13.7  
54 7.2 6.2 9.2  
68 6.0 5.2 7.8

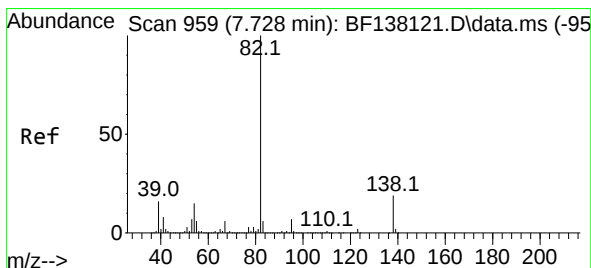
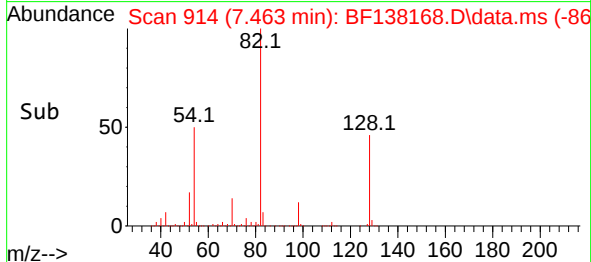
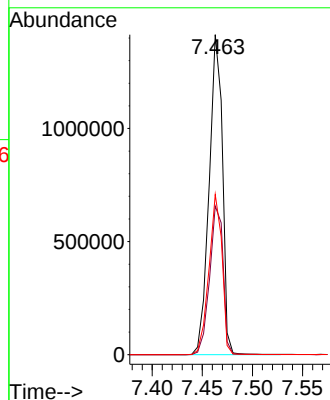
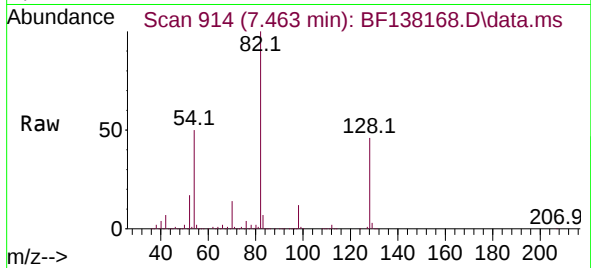




#23  
Nitrobenzene-d5  
Concen: 59.735 ng  
RT: 7.463 min Scan# 914  
Delta R.T. -0.012 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

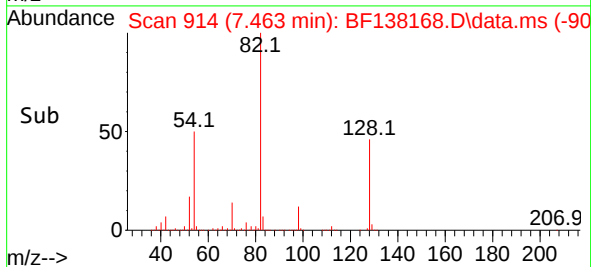
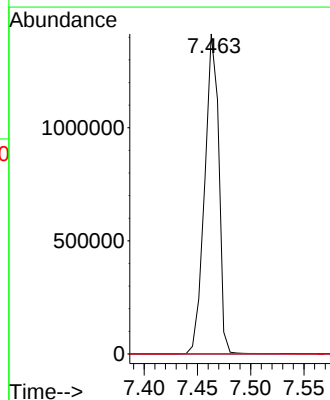
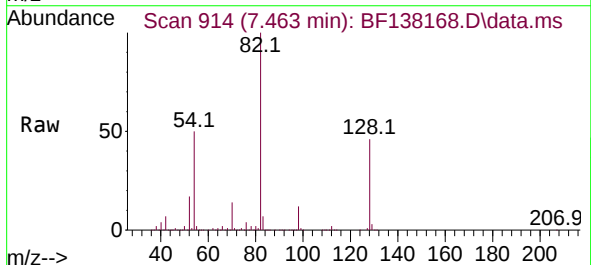
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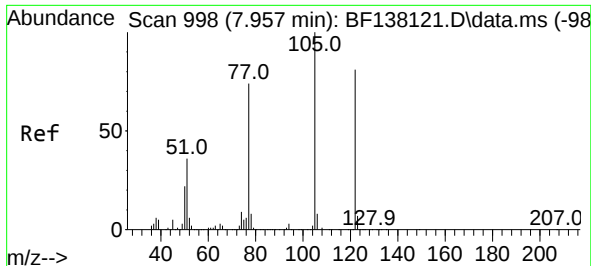
Tgt Ion: 82 Resp: 1310917  
Ion Ratio Lower Upper  
82 100  
128 46.4 37.7 56.5  
54 50.1 40.8 61.2



#25  
Isophorone  
Concen: 27.114 ng  
RT: 7.463 min Scan# 914  
Delta R.T. -0.265 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

Tgt Ion: 82 Resp: 1310903  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.6 8.4#  
138 0.0 15.5 23.3#

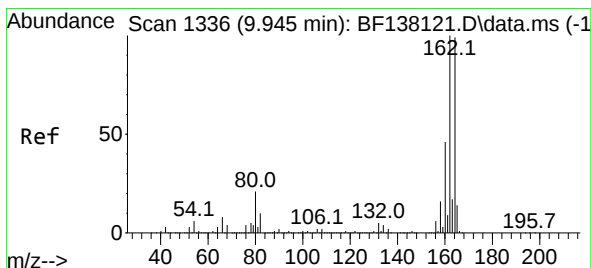
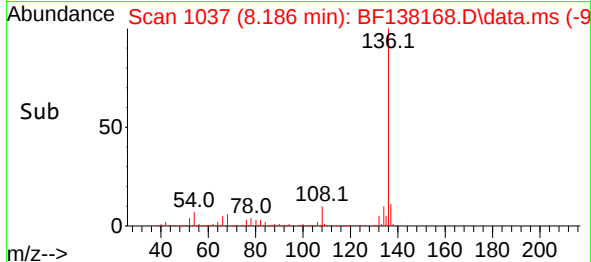
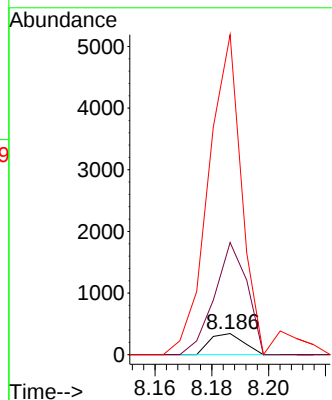
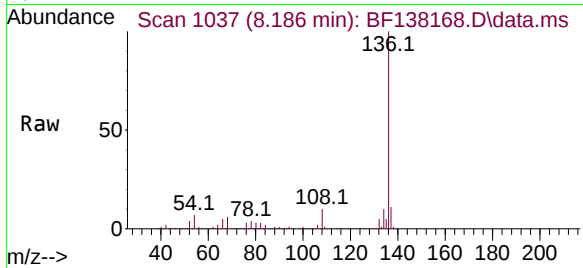




#32  
Benzoic acid  
Concen: 7.958 ng  
RT: 8.186 min Scan# 10  
Delta R.T. 0.229 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

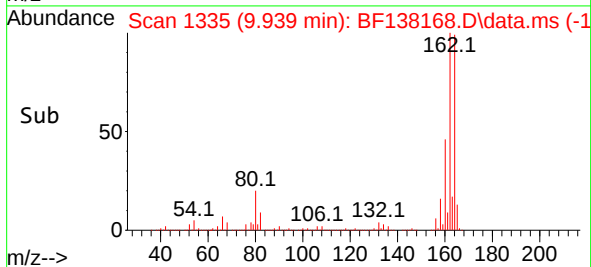
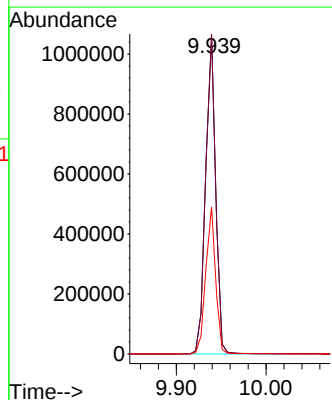
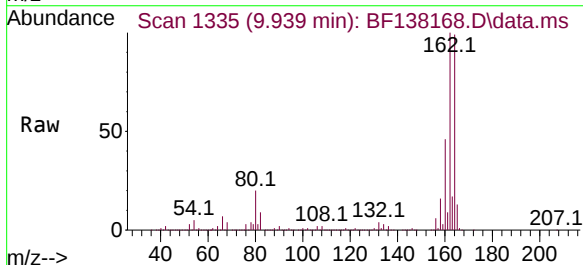
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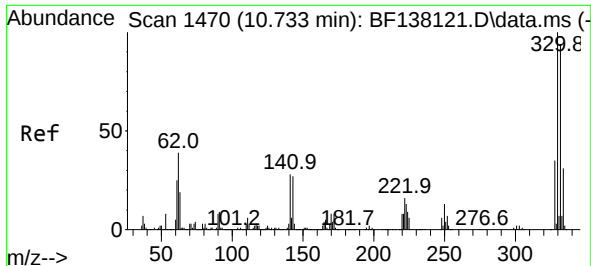
Tgt Ion:122 Resp: 284  
Ion Ratio Lower Upper  
122 100  
105 530.9 102.8 142.8#  
77 1513.7 71.2 111.2#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. -0.006 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

Tgt Ion:164 Resp: 826350  
Ion Ratio Lower Upper  
164 100  
162 100.6 80.9 121.3  
160 46.2 37.0 55.6





#42

2,4,6-Tribromophenol

Concen: 81.169 ng

RT: 10.727 min Scan# 1470

Delta R.T. -0.006 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

Instrument :

BNA\_F

ClientSampleId :

CHA-1

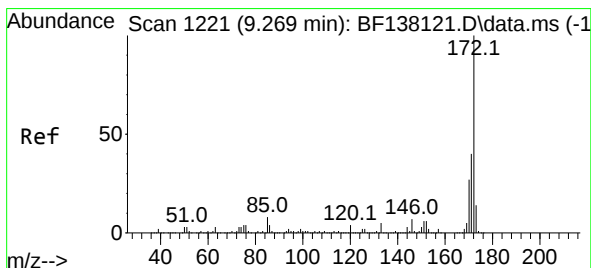
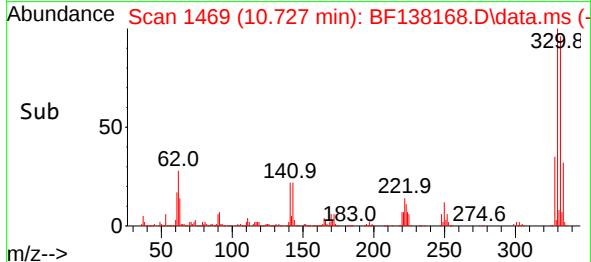
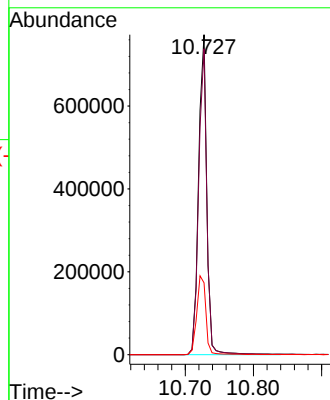
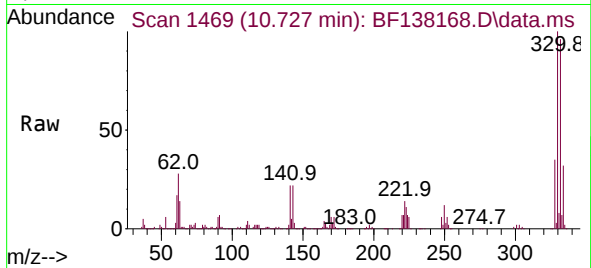
Tgt Ion:330 Resp: 645499

Ion Ratio Lower Upper

330 100

332 95.6 75.8 113.8

141 27.6 23.2 34.8



#45

2-Fluorobiphenyl

Concen: 54.047 ng

RT: 9.263 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

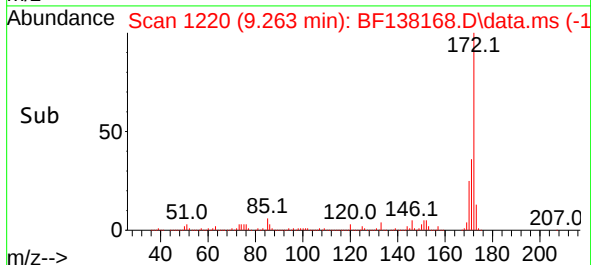
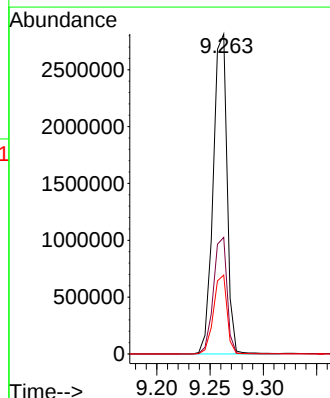
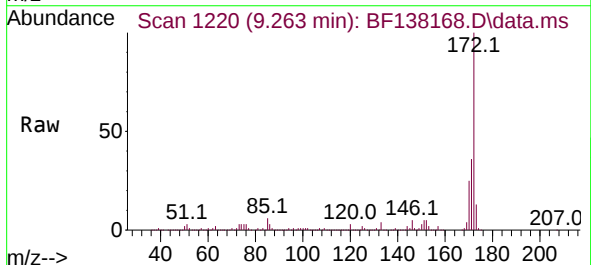
Tgt Ion:172 Resp: 2554239

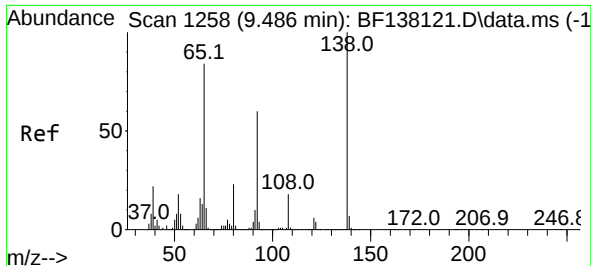
Ion Ratio Lower Upper

172 100

171 36.5 31.6 47.4

170 24.7 21.4 32.2

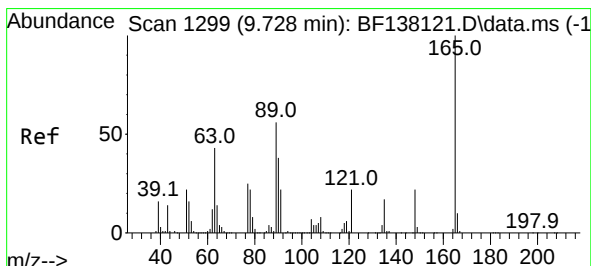
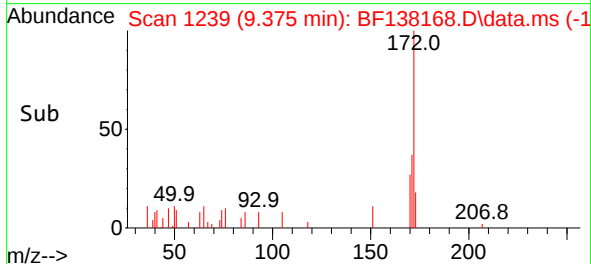
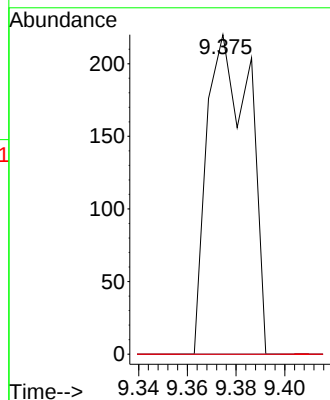
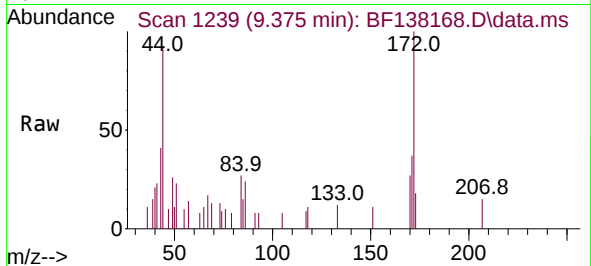




#48  
2-Nitroaniline  
Concen: 4.818 ng  
RT: 9.375 min Scan# 11  
Delta R.T. -0.111 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

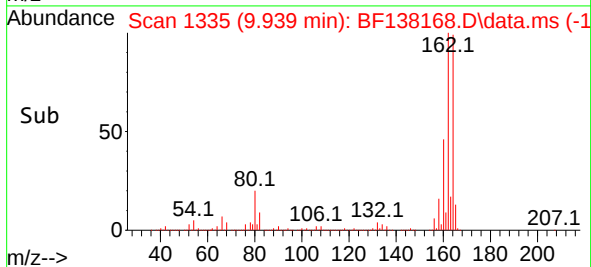
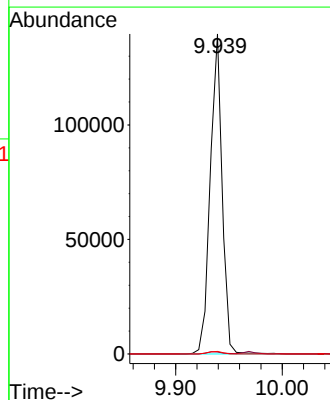
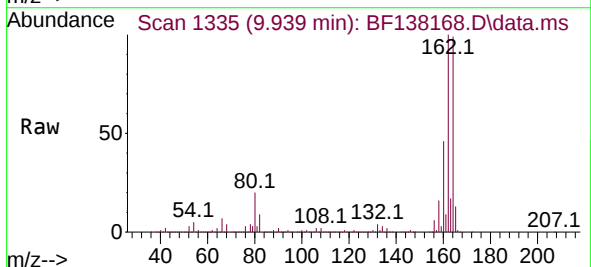
Instrument :  
BNA\_F  
ClientSampleId :  
CHA-1

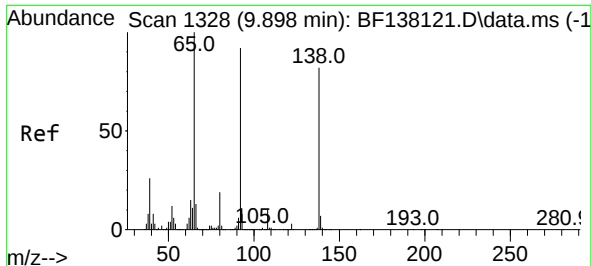
Tgt Ion: 65 Resp: 267  
Ion Ratio Lower Upper  
65 100  
92 0.0 57.3 85.9#  
138 0.0 95.4 143.2#



#51  
2,6-Dinitrotoluene  
Concen: 12.359 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. 0.211 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

Tgt Ion: 165 Resp: 108637  
Ion Ratio Lower Upper  
165 100  
63 0.6 42.9 64.3#  
89 0.8 45.0 67.4#





#53

3-Nitroaniline

Concen: 2.950 ng

RT: 9.880 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

Instrument :

BNA\_F

ClientSampleId :

CHA-1

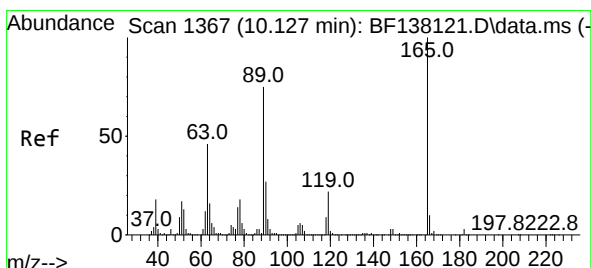
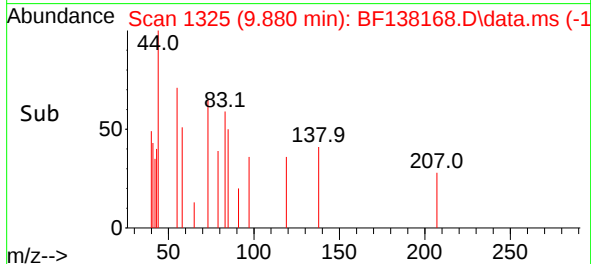
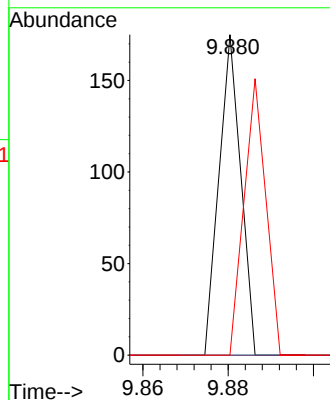
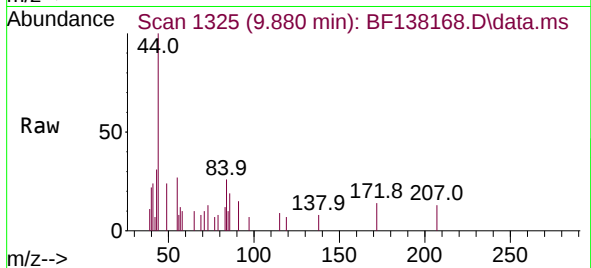
Tgt Ion:138 Resp: 62

Ion Ratio Lower Upper

138 100

108 0.0 10.3 15.5#

92 0.0 89.5 134.3#



#57

2,4-Dinitrotoluene

Concen: 11.244 ng

RT: 9.939 min Scan# 1335

Delta R.T. -0.188 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

Tgt Ion:165 Resp: 108638

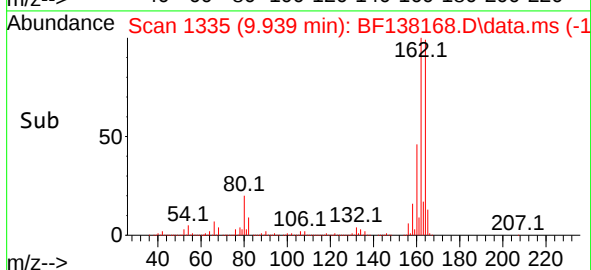
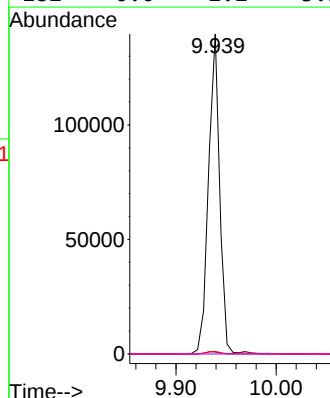
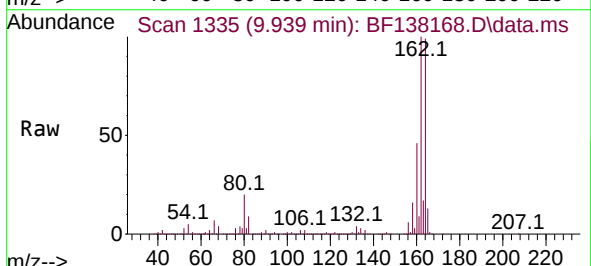
Ion Ratio Lower Upper

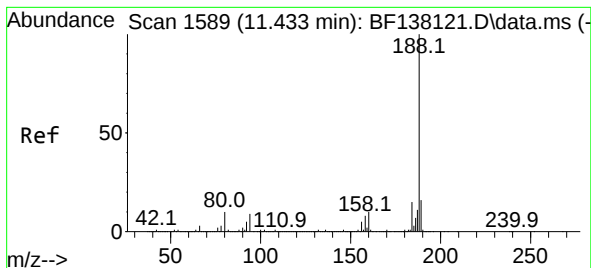
165 100

63 0.6 36.8 55.2#

89 0.8 60.2 90.2#

182 0.0 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

Instrument :

BNA\_F

ClientSampleId :

CHA-1

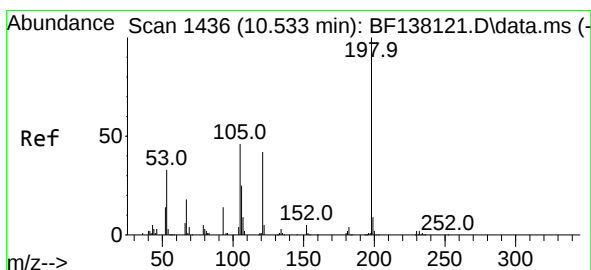
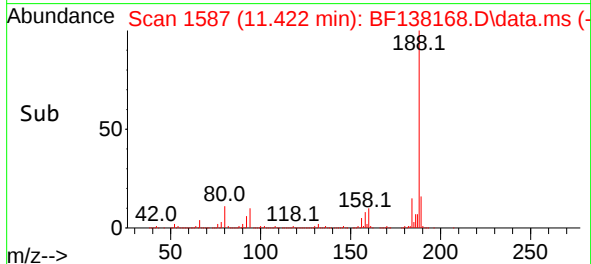
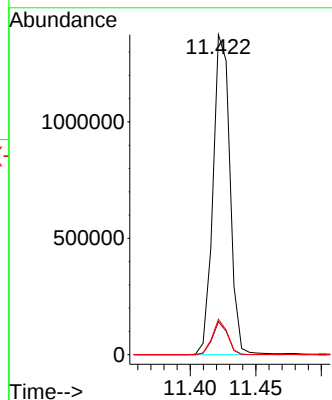
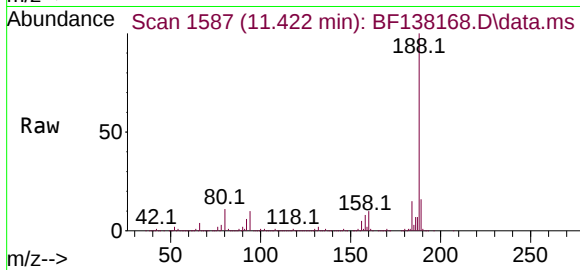
Tgt Ion:188 Resp: 1233980

Ion Ratio Lower Upper

188 100

94 10.3 7.4 11.2

80 11.1 7.7 11.5



#65

4,6-Dinitro-2-methylphenol

Concen: 8.682 ng

RT: 10.722 min Scan# 1468

Delta R.T. 0.189 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

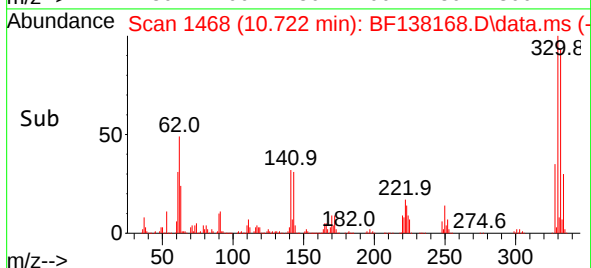
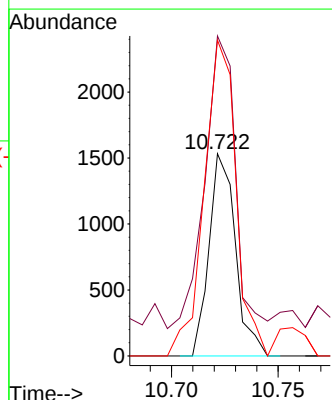
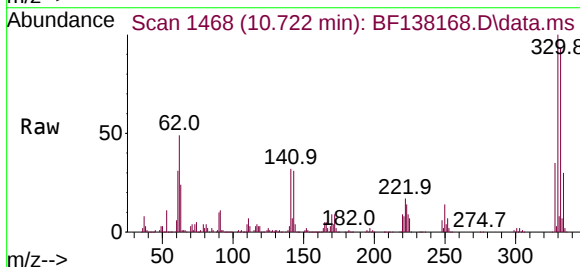
Tgt Ion:198 Resp: 1319

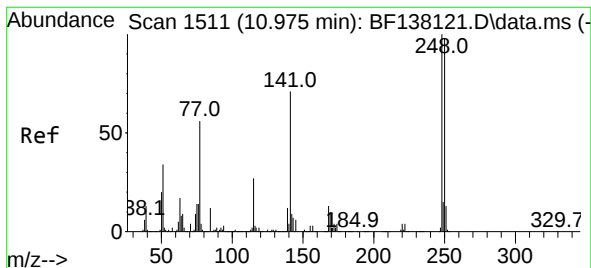
Ion Ratio Lower Upper

198 100

51 158.3 28.2 68.2#

105 156.3 26.8 66.8#

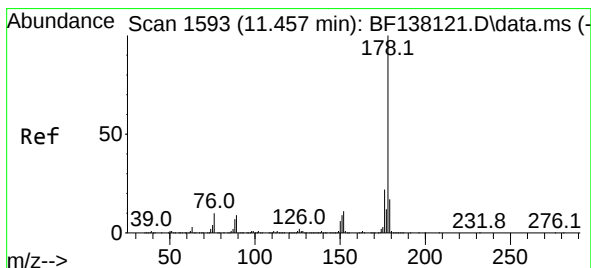
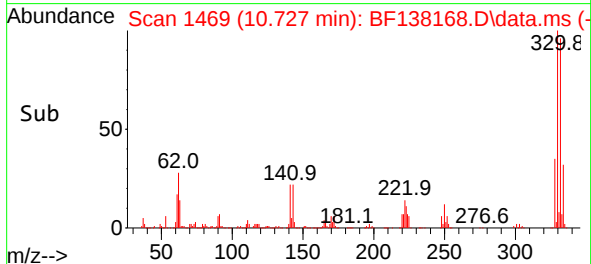
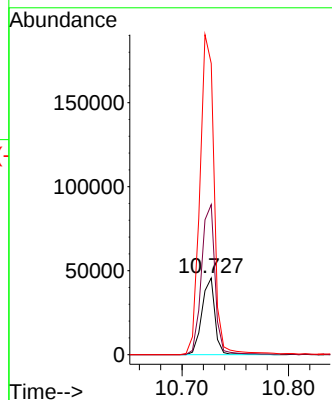
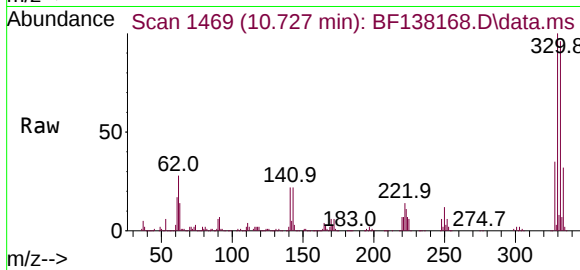




#67  
4-Bromophenyl-phenylether  
Concen: 2.781 ng  
RT: 10.727 min Scan# 1469  
Delta R.T. -0.247 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

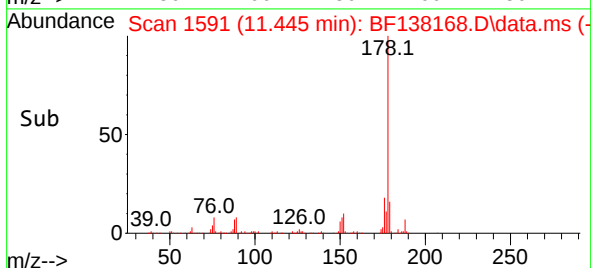
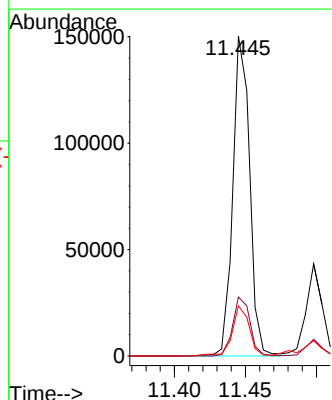
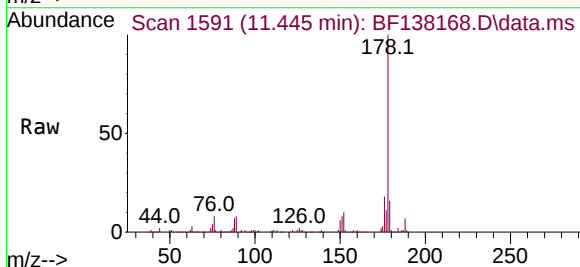
Instrument :  
BNA\_F  
ClientSampleId :  
CHA-1

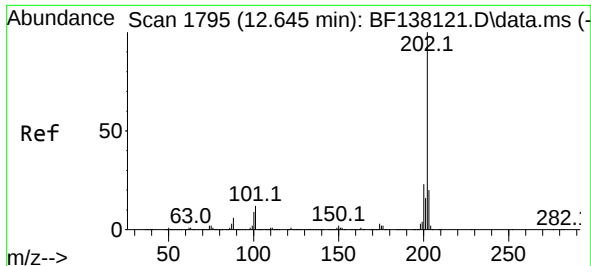
Tgt Ion:248 Resp: 39070  
Ion Ratio Lower Upper  
248 100  
250 195.8 78.7 118.1#  
141 379.8 56.5 84.7#



#71  
Phenanthrene  
Concen: 2.090 ng  
RT: 11.445 min Scan# 1591  
Delta R.T. -0.012 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

Tgt Ion:178 Resp: 124137  
Ion Ratio Lower Upper  
178 100  
176 18.4 17.2 25.8  
179 15.6 13.6 20.4

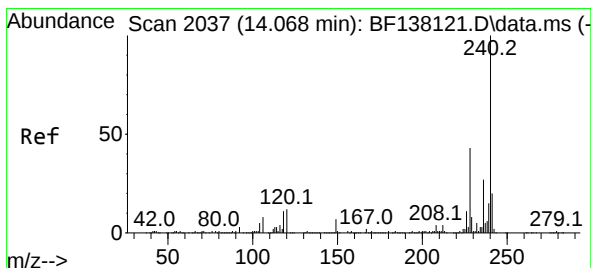
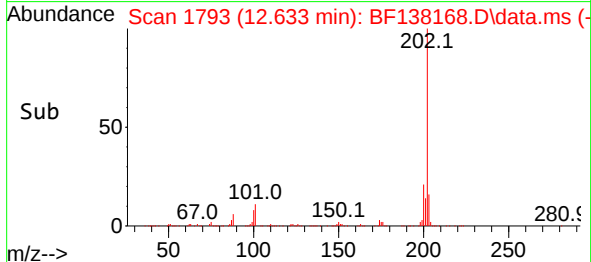
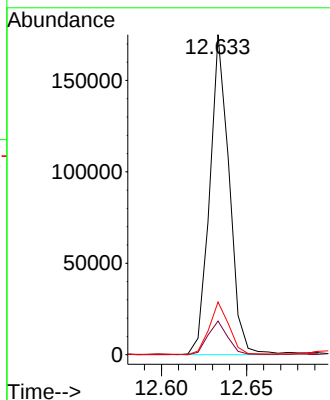
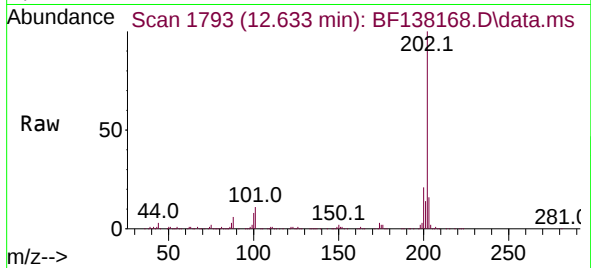




#75  
Fluoranthene  
Concen: 2.171 ng  
RT: 12.633 min Scan# 1795  
Delta R.T. -0.012 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

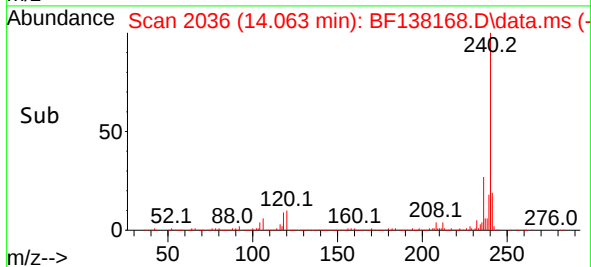
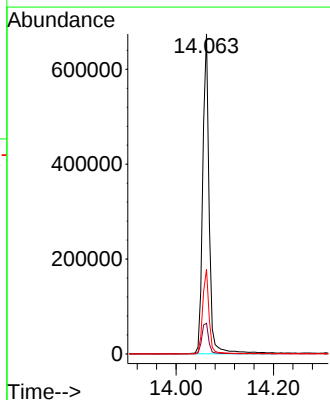
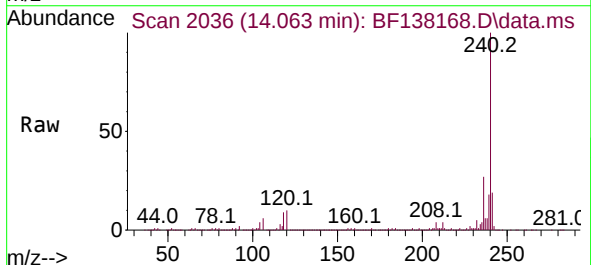
Instrument :  
BNA\_F  
ClientSampleId :  
CHA-1

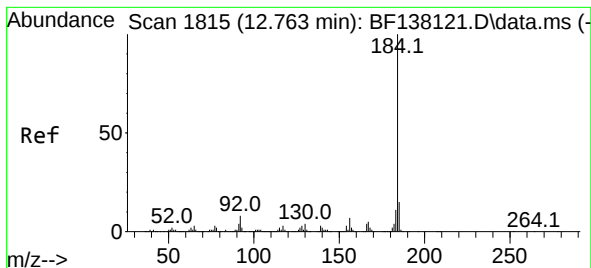
Tgt Ion:202 Resp: 139160  
Ion Ratio Lower Upper  
202 100  
101 10.5 0.0 32.2  
203 16.5 0.0 39.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.063 min Scan# 2036  
Delta R.T. -0.005 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

Tgt Ion:240 Resp: 617925  
Ion Ratio Lower Upper  
240 100  
120 9.6 9.8 14.8#  
236 26.5 21.2 31.8





#77

Benzidine

Concen: 4.041 ng

RT: 13.010 min Scan# 1857

Delta R.T. 0.247 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

Instrument :

BNA\_F

ClientSampleId :

CHA-1

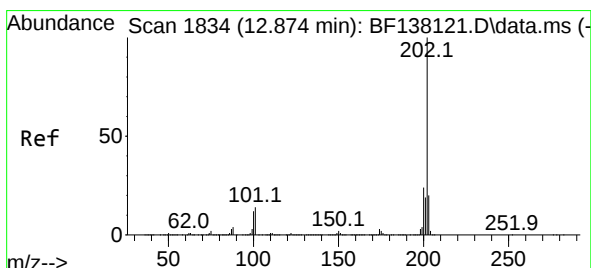
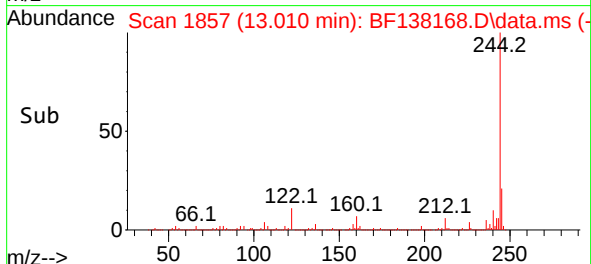
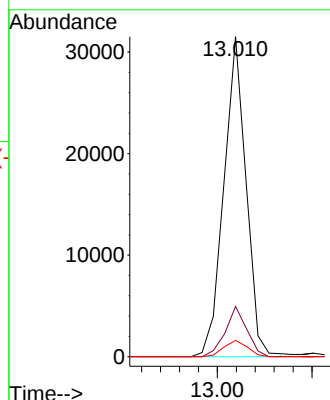
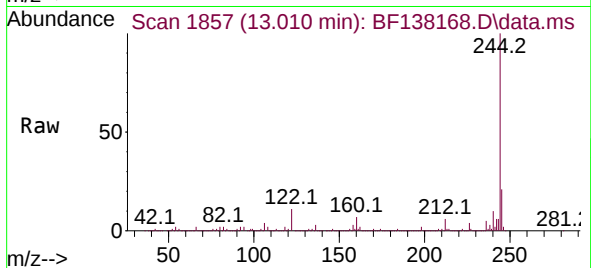
Tgt Ion:184 Resp: 25698

Ion Ratio Lower Upper

184 100

185 15.7 12.2 18.2

183 5.1 9.0 13.4#



#78

Pyrene

Concen: 2.011 ng

RT: 12.863 min Scan# 1832

Delta R.T. -0.012 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

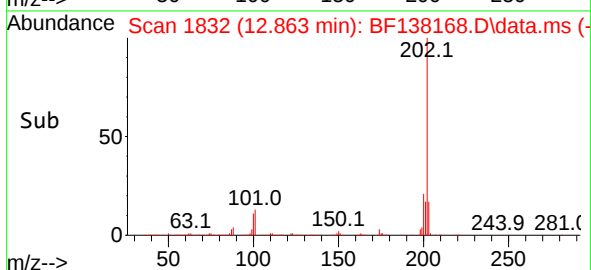
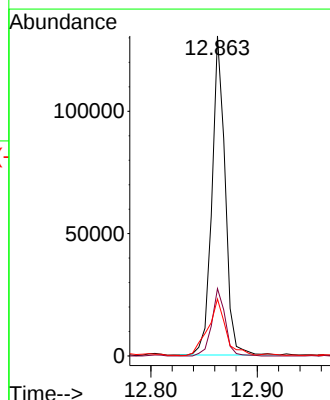
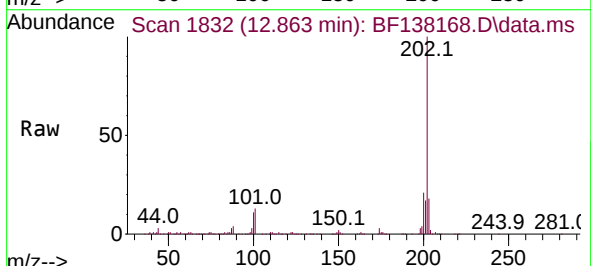
Tgt Ion:202 Resp: 112408

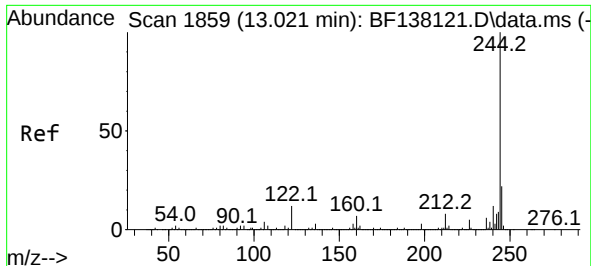
Ion Ratio Lower Upper

202 100

200 21.1 19.1 28.7

203 17.8 15.6 23.4

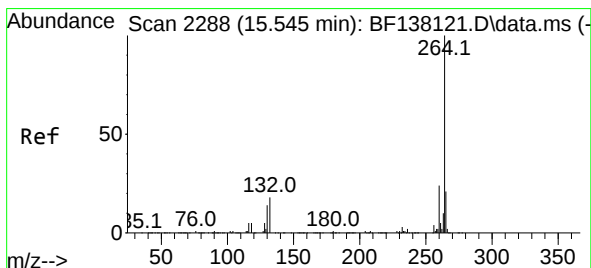
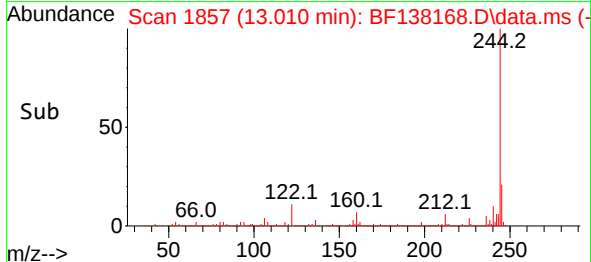
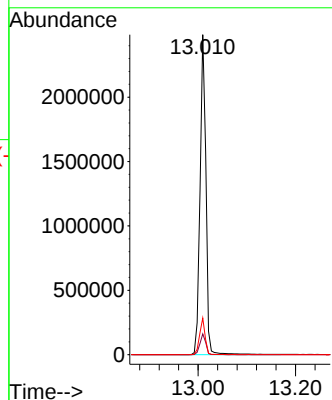
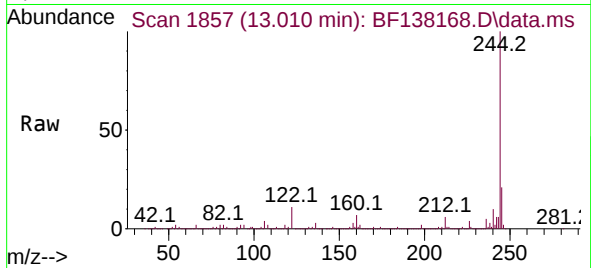




#79  
 Terphenyl-d14  
 Concen: 50.869 ng  
 RT: 13.010 min Scan# 1857  
 Delta R.T. -0.012 min  
 Lab File: BF138168.D  
 Acq: 07 Jun 2024 19:05

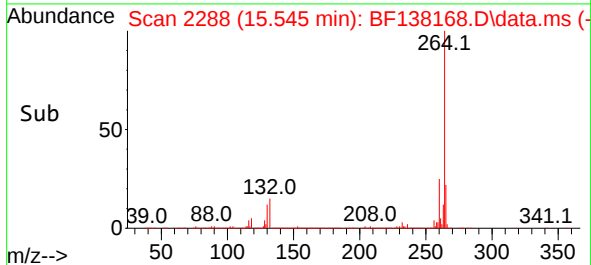
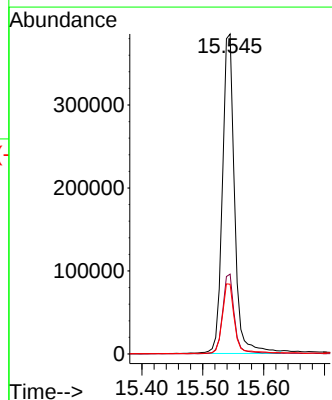
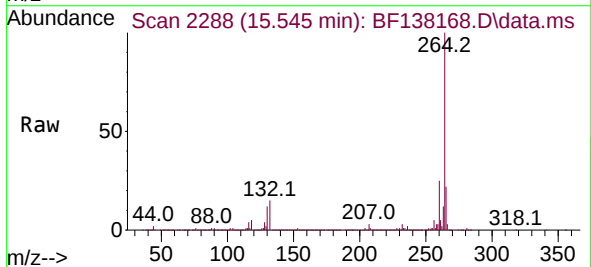
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHA-1

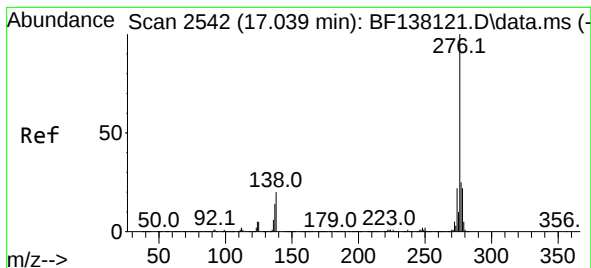
Tgt Ion:244 Resp: 2101534  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 6.4 9.6  
 122 11.5 9.4 14.2



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.545 min Scan# 2288  
 Delta R.T. -0.000 min  
 Lab File: BF138168.D  
 Acq: 07 Jun 2024 19:05

Tgt Ion:264 Resp: 534148  
 Ion Ratio Lower Upper  
 264 100  
 260 24.9 19.4 29.2  
 265 21.8 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.341 ng

RT: 17.021 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

Instrument :

BNA\_F

ClientSampleId :

CHA-1

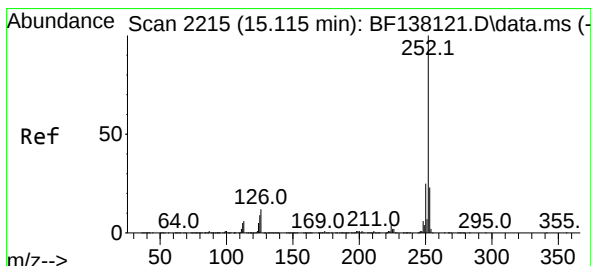
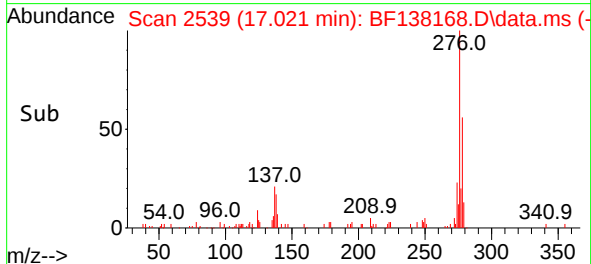
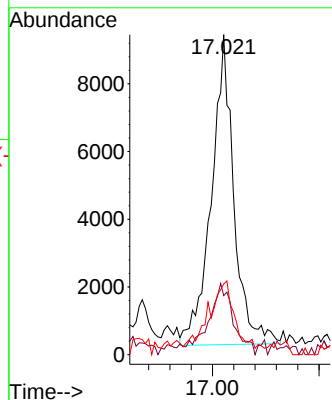
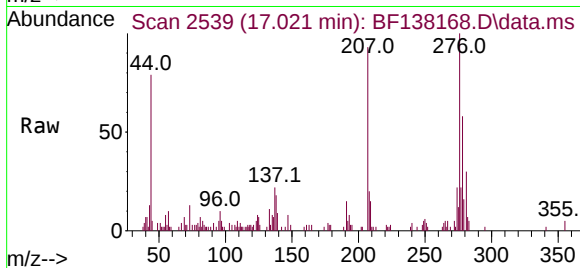
Tgt Ion:276 Resp: 26927

Ion Ratio Lower Upper

276 100

138 26.4 18.9 28.3

277 27.7 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 3.133 ng

RT: 15.104 min Scan# 2213

Delta R.T. -0.012 min

Lab File: BF138168.D

Acq: 07 Jun 2024 19:05

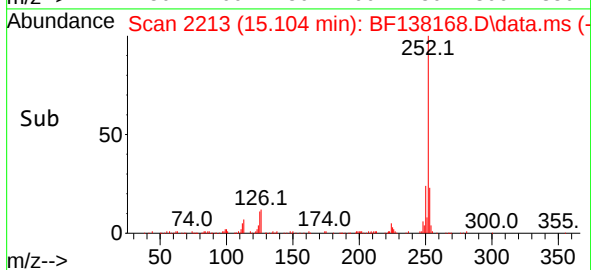
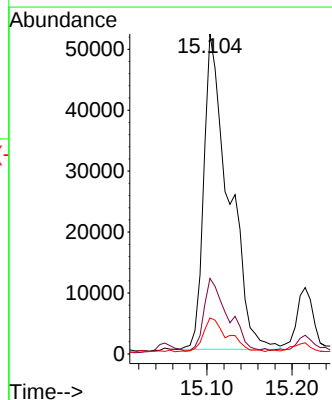
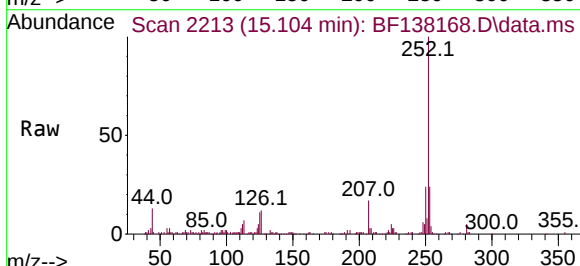
Tgt Ion:252 Resp: 105220

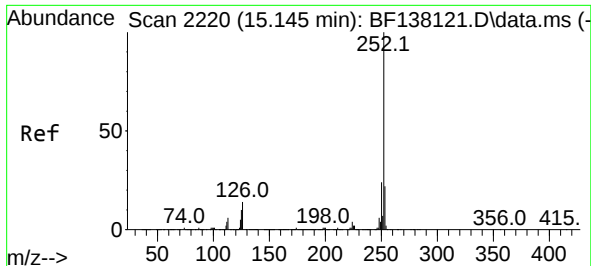
Ion Ratio Lower Upper

252 100

253 23.6 18.2 27.2

125 11.2 7.4 11.2#

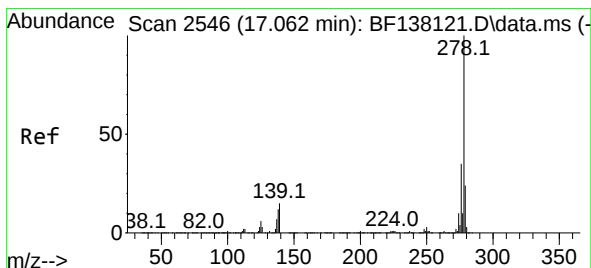
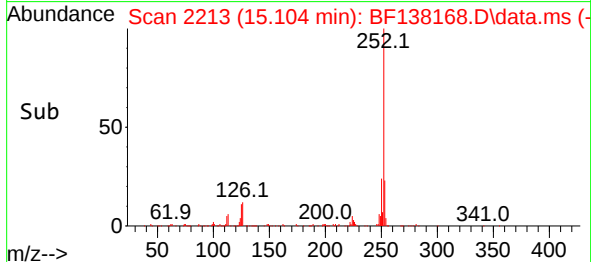
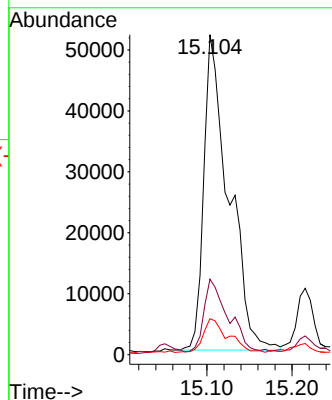
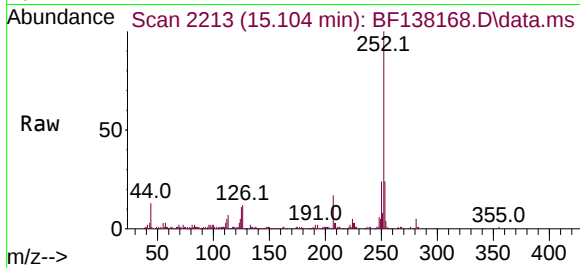




#89  
Benzo(k)fluoranthene  
Concen: 3.286 ng  
RT: 15.104 min Scan# 211  
Delta R.T. -0.041 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

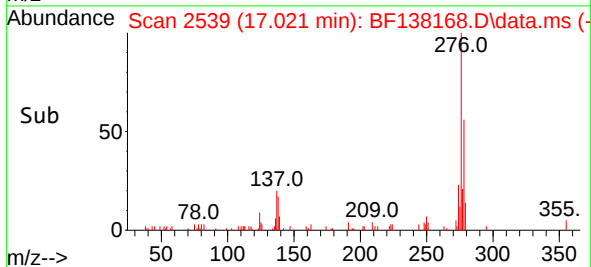
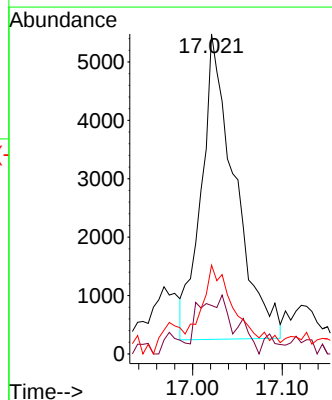
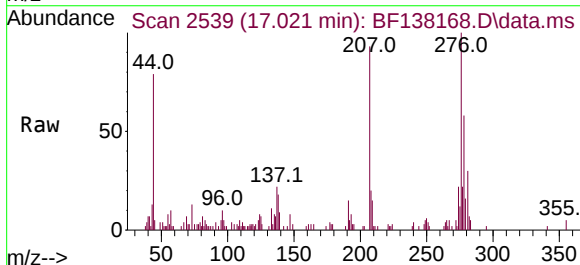
Instrument :  
BNA\_F  
ClientSampleId :  
CHA-1

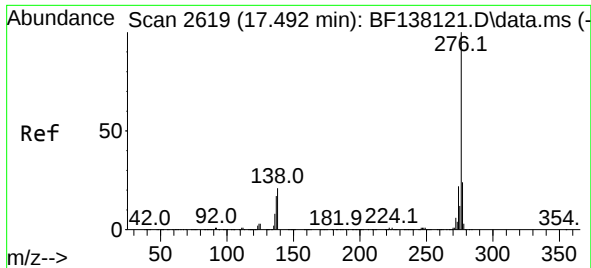
Tgt Ion:252 Resp: 105220  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.8 26.6  
125 11.2 7.8 11.6



#91  
Dibenzo(a,h)anthracene  
Concen: 4.194 ng  
RT: 17.021 min Scan# 2539  
Delta R.T. -0.041 min  
Lab File: BF138168.D  
Acq: 07 Jun 2024 19:05

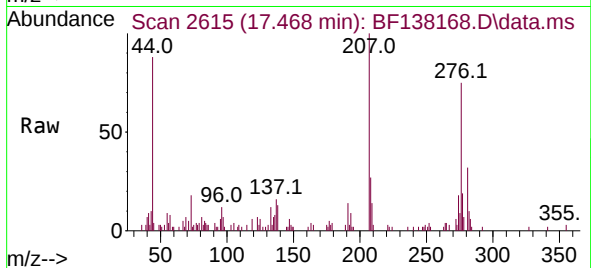
Tgt Ion:278 Resp: 13561  
Ion Ratio Lower Upper  
278 100  
139 15.2 11.7 17.5  
279 27.7 19.2 28.8





#92  
 Benzo(g,h,i)perylene  
 Concen: 3.817 ng  
 RT: 17.468 min Scan# 20  
 Delta R.T. -0.024 min  
 Lab File: BF138168.D  
 Acq: 07 Jun 2024 19:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHA-1



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 21455 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.6  | 19.0  | 28.4  |
| 138       | 17.6  | 16.5  | 24.7  |

