

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF052824\  
 Data File : BF138049.D  
 Acq On : 28 May 2024 16:07  
 Operator : CG\JU  
 Sample : P2616-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-206

Quant Time: May 28 16:33:43 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 15 04:12:16 2024  
 Response via : Initial Calibration

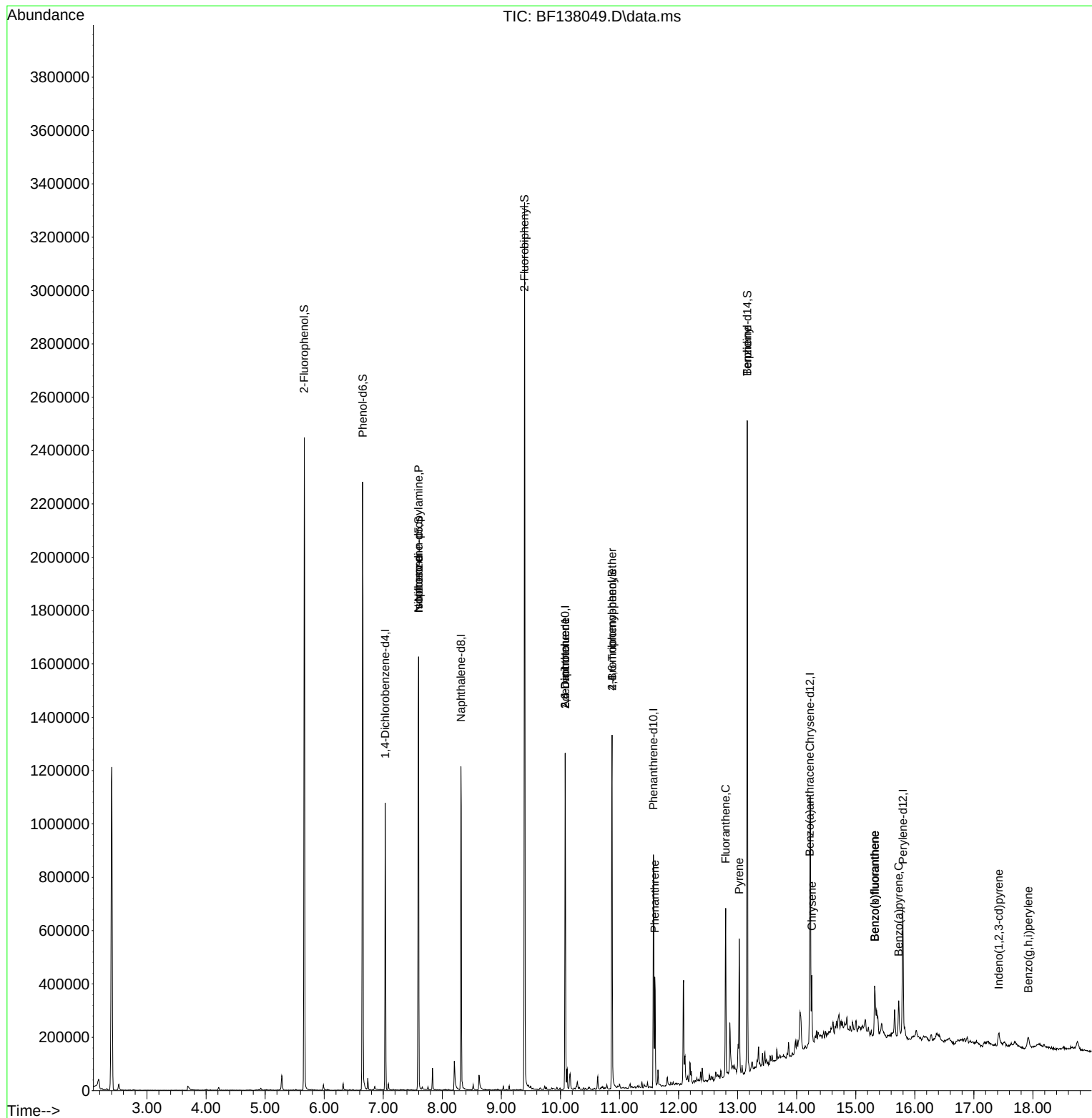
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.033  | 152  | 148683   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.316  | 136  | 542183   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 10.080 | 164  | 253807   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.574 | 188  | 338565   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 14.227 | 240  | 282676   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.798 | 264  | 223233   | 20.000 | ng    | 0.01     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.663  | 112  | 713966   | 81.568 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.651  | 99   | 867775   | 80.481 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.598  | 82   | 515259   | 55.928 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.874 | 330  | 172839   | 67.538 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.392  | 172  | 993019   | 60.268 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.162 | 244  | 826193   | 43.076 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.598  | 70   | 67558    | 11.152 | ng    | # 75     |
| 25) Isophorone                | 7.598  | 82   | 515253   | 32.224 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene        | 10.080 | 165  | 32750    | 8.966  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene        | 10.080 | 165  | 32893    | 6.965  | ng    | # 33     |
| 67) 4-Bromophenyl-phenylether | 10.874 | 248  | 11033    | 2.973  | ng    | # 1      |
| 71) Phenanthrene              | 11.598 | 178  | 150716   | 9.033  | ng    | 99       |
| 75) Fluoranthene              | 12.798 | 202  | 238473   | 14.082 | ng    | 100      |
| 77) Benzidine                 | 13.162 | 184  | 9960     | 2.696  | ng    | # 92     |
| 78) Pyrene                    | 13.027 | 202  | 203130   | 8.216  | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.221 | 228  | 97405    | 5.447  | ng    | 98       |
| 83) Chrysene                  | 14.257 | 228  | 106781   | 6.243  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.421 | 276  | 34220    | 2.386  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.321 | 252  | 143545   | 11.106 | ng    | # 97     |
| 89) Benzo(k)fluoranthene      | 15.321 | 252  | 143545   | 11.305 | ng    | # 96     |
| 90) Benzo(a)pyrene            | 15.727 | 252  | 63582    | 5.761  | ng    | # 97     |
| 92) Benzo(g,h,i)perylene      | 17.921 | 276  | 34963    | 2.809  | ng    | 94       |
| -----                         |        |      |          |        |       |          |

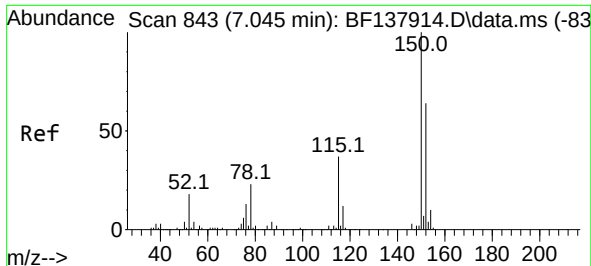
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF052824\  
Data File : BF138049.D  
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Sample : P2616-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-206

Quant Time: May 28 16:33:43 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 15 04:12:16 2024  
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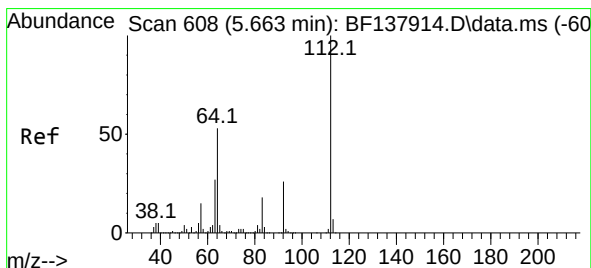
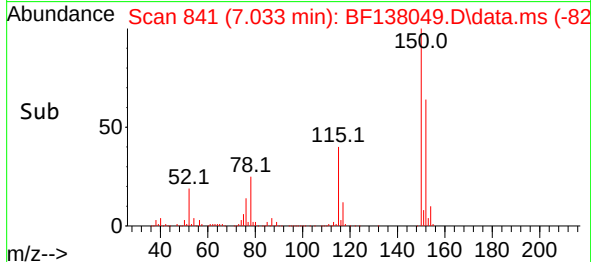
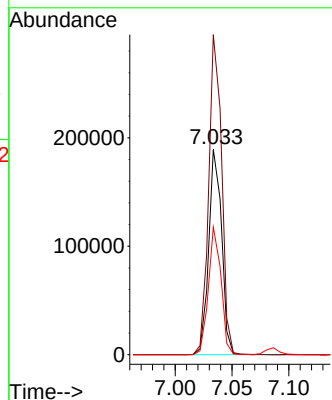
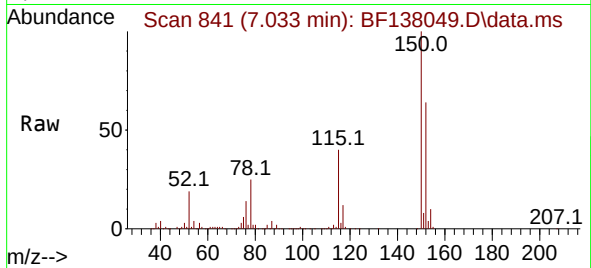




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.033 min Scan# 843  
Delta R.T. -0.012 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

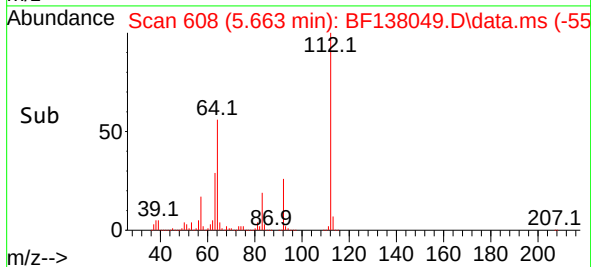
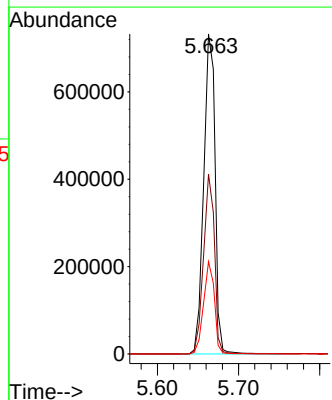
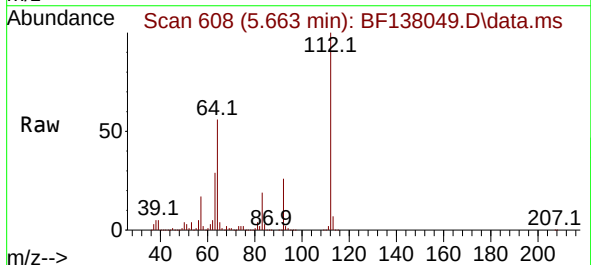
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-206

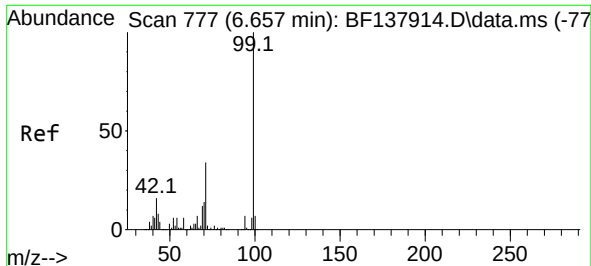
Tgt Ion:152 Resp: 148683  
Ion Ratio Lower Upper  
152 100  
150 155.9 125.7 188.5  
115 62.1 47.0 70.6



#5  
2-Fluorophenol  
Concen: 81.568 ng  
RT: 5.663 min Scan# 608  
Delta R.T. -0.000 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

Tgt Ion:112 Resp: 713966  
Ion Ratio Lower Upper  
112 100  
64 56.2 42.4 63.6  
63 28.8 21.4 32.2





#7  
Phenol-d6  
Concen: 80.481 ng  
RT: 6.651 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

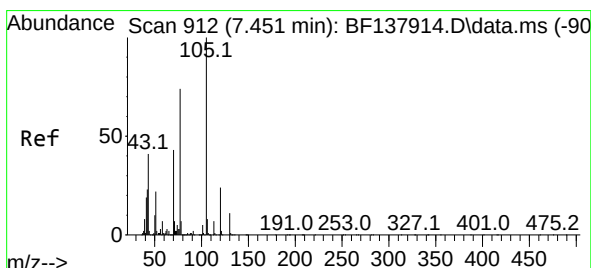
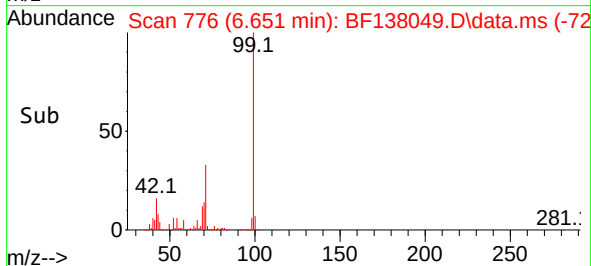
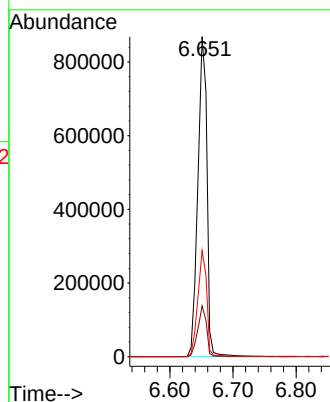
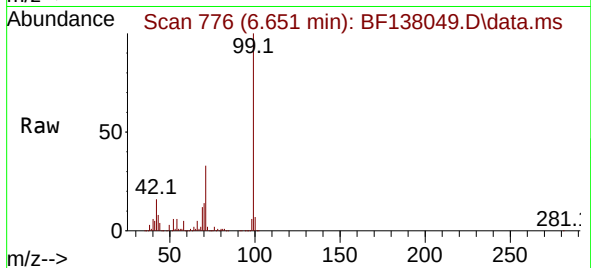
Instrument :

BNA\_F

ClientSampleId :

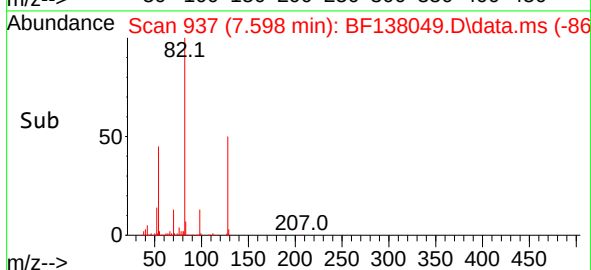
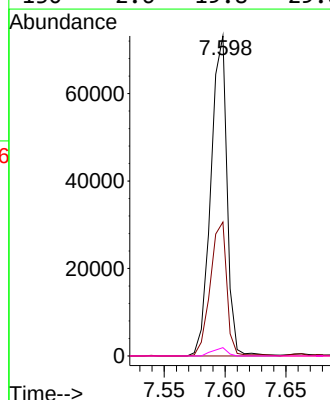
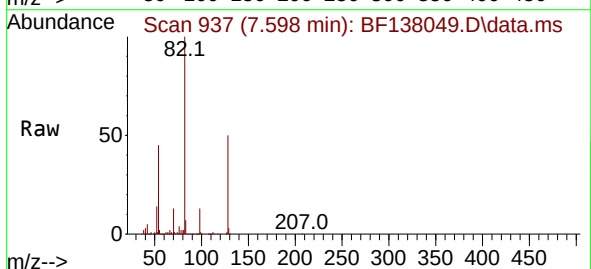
VNJ-206

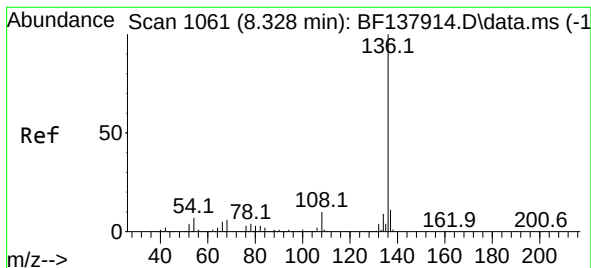
Tgt Ion: 99 Resp: 867775  
Ion Ratio Lower Upper  
99 100  
42 15.8 12.6 18.8  
71 33.1 27.1 40.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.152 ng  
RT: 7.598 min Scan# 937  
Delta R.T. 0.147 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

Tgt Ion: 70 Resp: 67558  
Ion Ratio Lower Upper  
70 100  
42 41.8 42.2 63.4#  
101 0.0 8.8 13.2#  
130 2.6 19.8 29.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.316 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

Tgt Ion:136 Resp: 542183

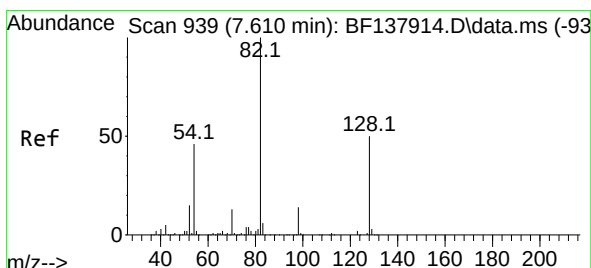
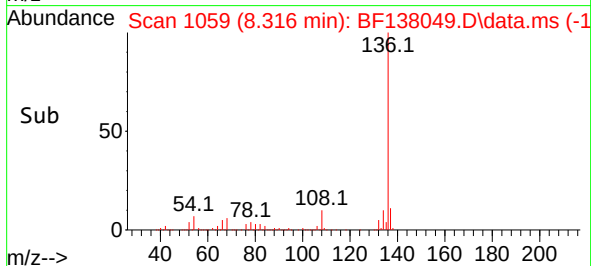
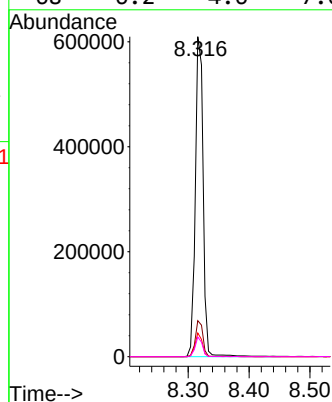
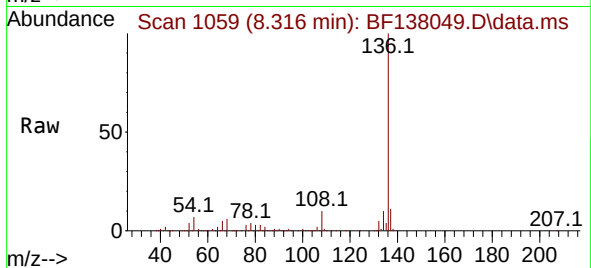
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 7.4 5.4 8.2

68 6.2 4.6 7.0



#23

Nitrobenzene-d5

Concen: 55.928 ng

RT: 7.598 min Scan# 937

Delta R.T. -0.012 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

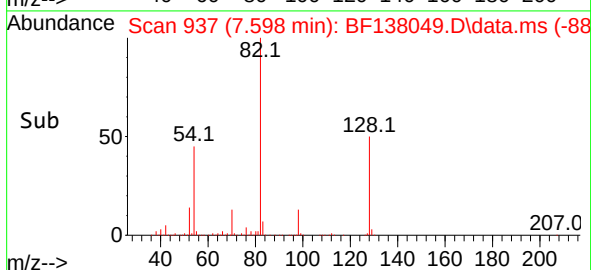
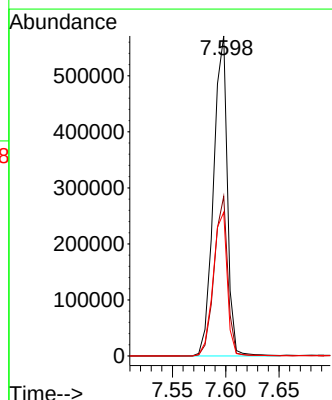
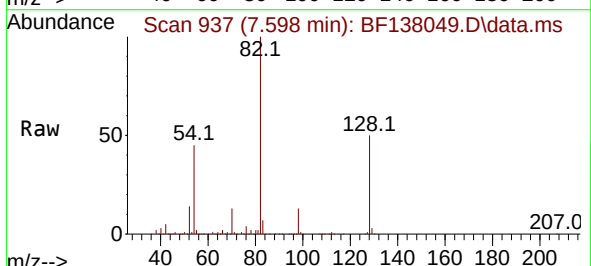
Tgt Ion: 82 Resp: 515259

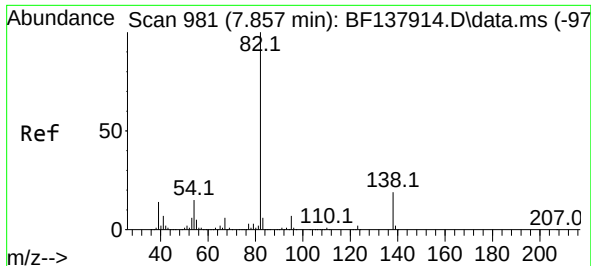
Ion Ratio Lower Upper

82 100

128 49.9 40.3 60.5

54 44.9 36.8 55.2

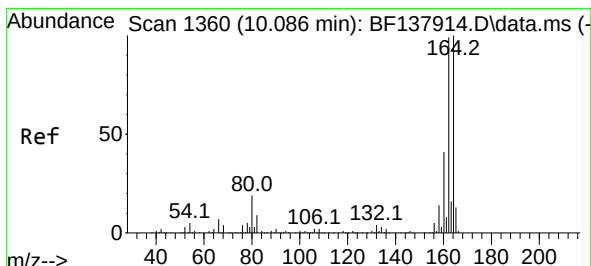
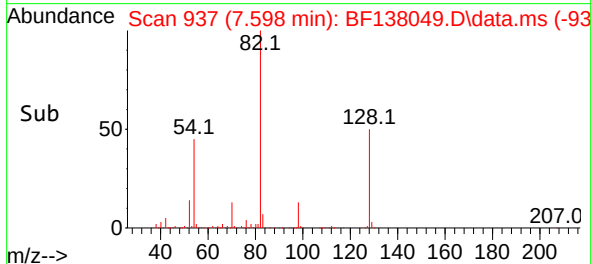
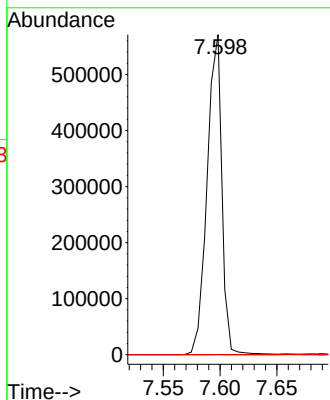
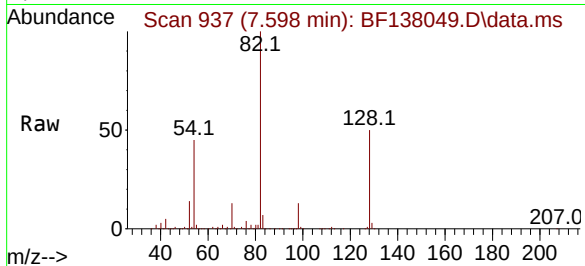




#25  
Isophorone  
Concen: 32.224 ng  
RT: 7.598 min Scan# 91  
Delta R.T. -0.259 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

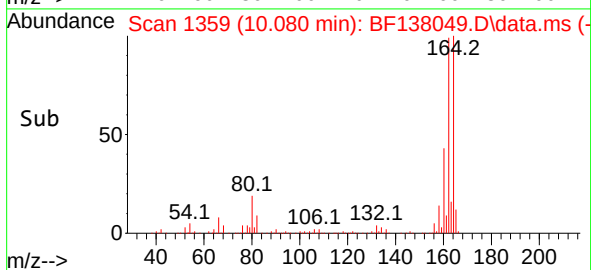
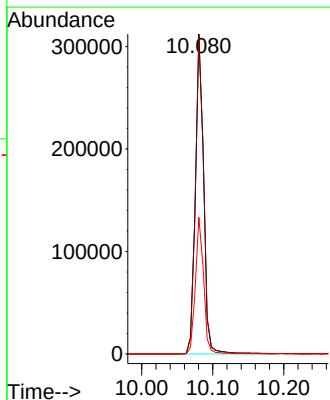
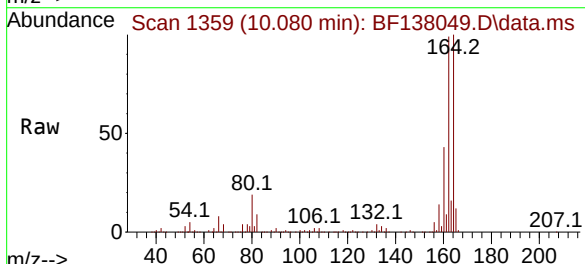
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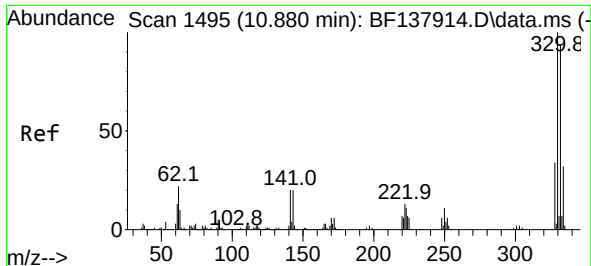
Tgt Ion: 82 Resp: 515253  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.0 9.0#  
138 0.0 15.0 22.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.080 min Scan# 1359  
Delta R.T. -0.006 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

Tgt Ion:164 Resp: 253807  
Ion Ratio Lower Upper  
164 100  
162 99.2 79.4 119.2  
160 42.7 33.1 49.7

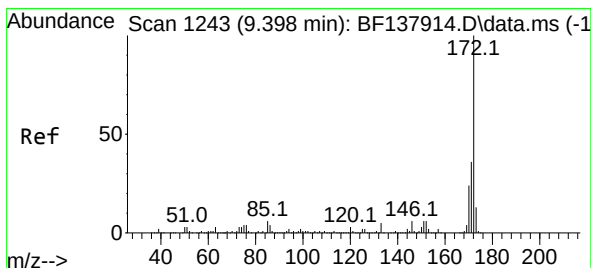
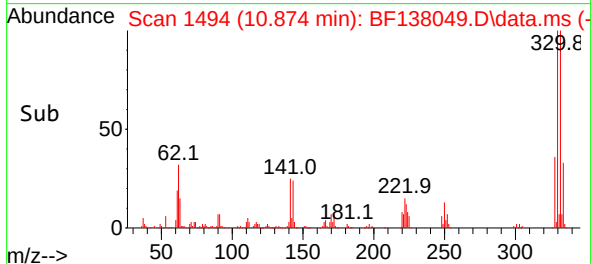
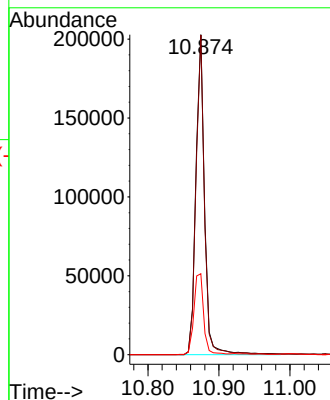
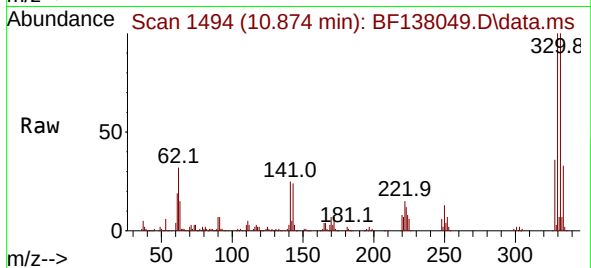




#42  
2,4,6-Tribromophenol  
Concen: 67.538 ng  
RT: 10.874 min Scan# 1494  
Delta R.T. -0.006 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

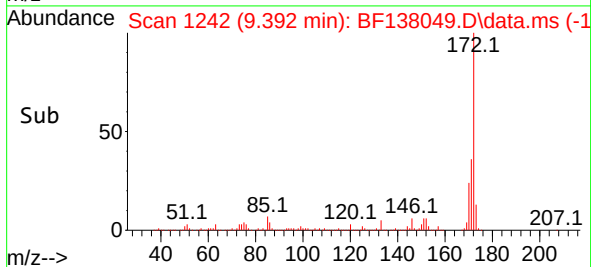
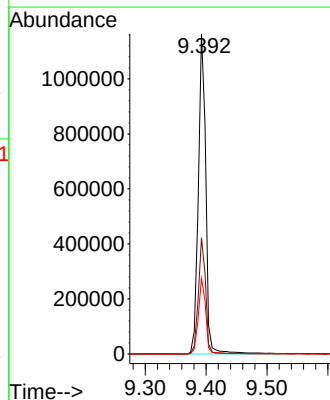
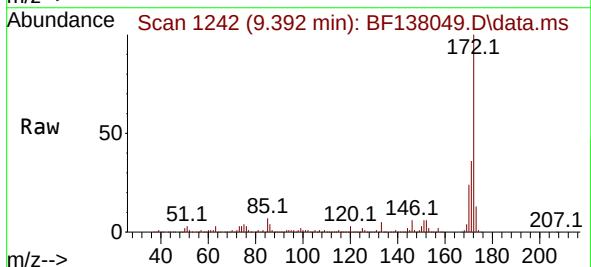
Instrument :  
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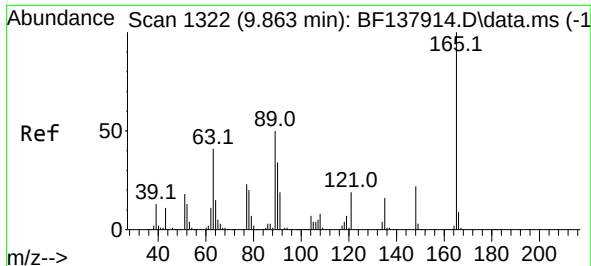
Tgt Ion: 330 Resp: 172839  
Ion Ratio Lower Upper  
330 100  
332 98.1 75.8 113.8  
141 28.6 23.8 35.6



#45  
2-Fluorobiphenyl  
Concen: 60.268 ng  
RT: 9.392 min Scan# 1242  
Delta R.T. -0.006 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

Tgt Ion: 172 Resp: 993019  
Ion Ratio Lower Upper  
172 100  
171 36.3 28.9 43.3  
170 23.7 18.9 28.3

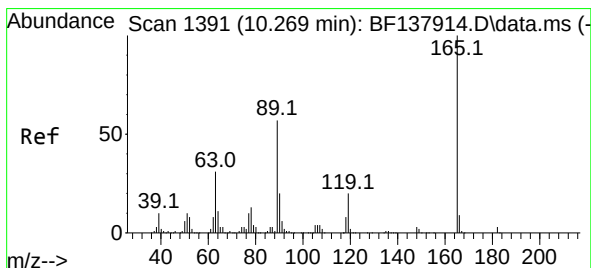
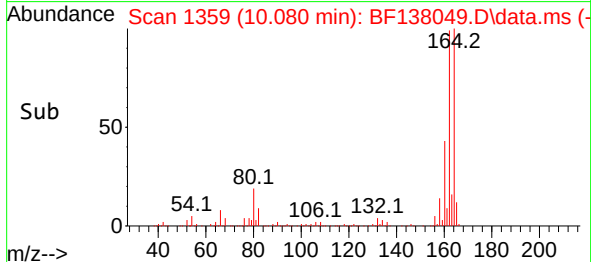
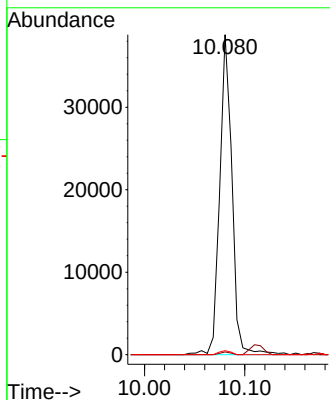
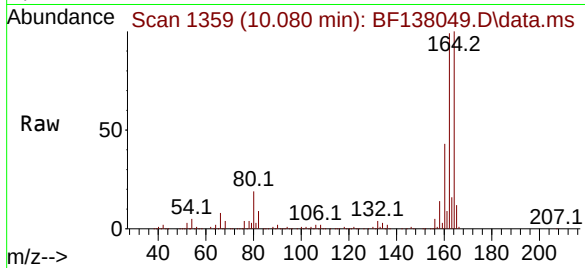




#51  
2,6-Dinitrotoluene  
Concen: 8.966 ng  
RT: 10.080 min Scan# 1359  
Delta R.T. 0.218 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

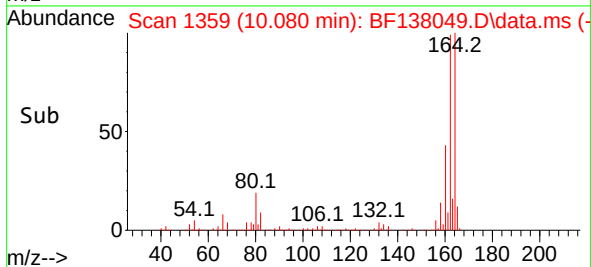
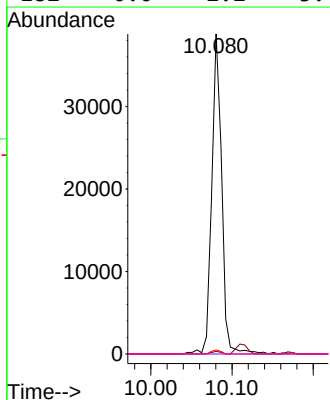
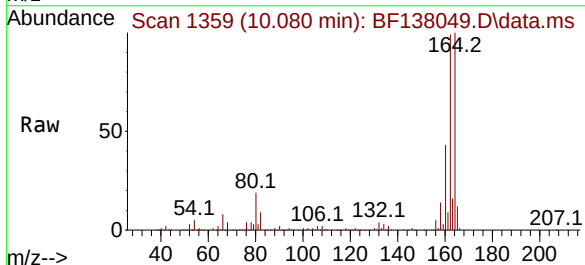
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-206

Tgt Ion:165 Resp: 32750  
Ion Ratio Lower Upper  
165 100  
63 0.9 38.9 58.3#  
89 1.2 40.4 60.6#

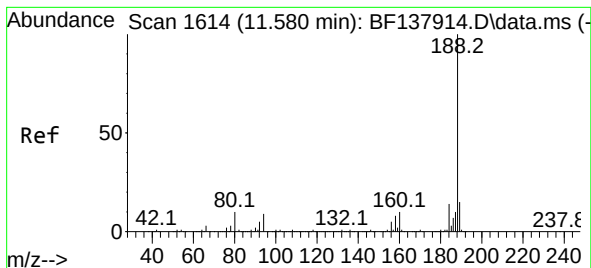


#57  
2,4-Dinitrotoluene  
Concen: 6.965 ng  
RT: 10.080 min Scan# 1359  
Delta R.T. -0.188 min  
Lab File: BF138049.D  
Acq: 28 May 2024 16:07

Tgt Ion:165 Resp: 32893  
Ion Ratio Lower Upper  
165 100  
63 0.9 25.3 37.9#  
89 1.2 45.9 68.9#  
182 0.0 2.2 3.4#







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.574 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

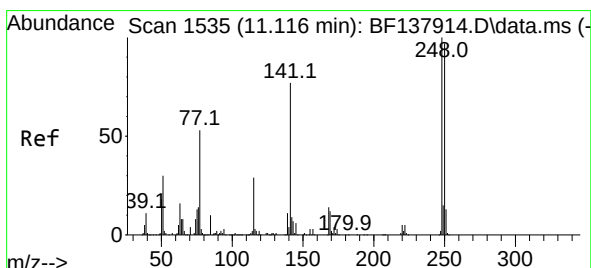
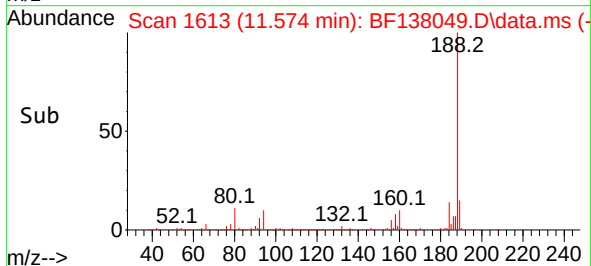
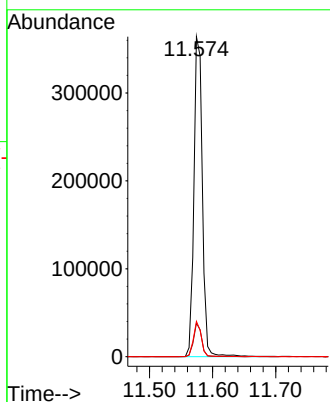
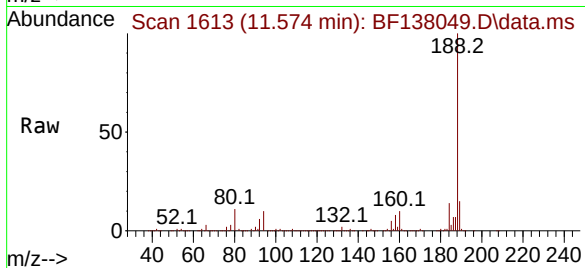
Tgt Ion:188 Resp: 338565

Ion Ratio Lower Upper

188 100

94 10.5 7.0 10.4#

80 11.0 7.7 11.5



#67

4-Bromophenyl-phenylether

Concen: 2.973 ng

RT: 10.874 min Scan# 1494

Delta R.T. -0.241 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

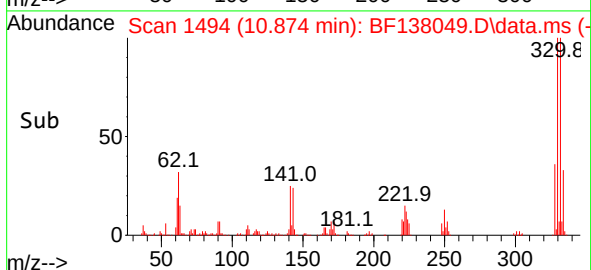
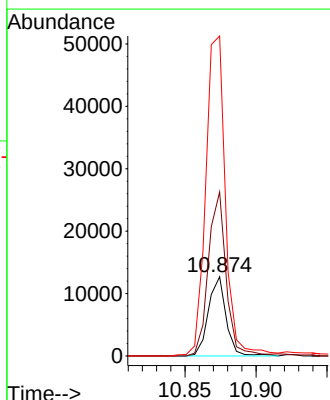
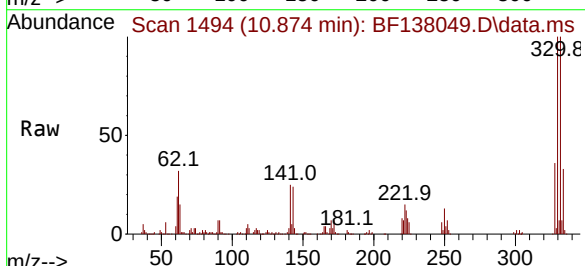
Tgt Ion:248 Resp: 11033

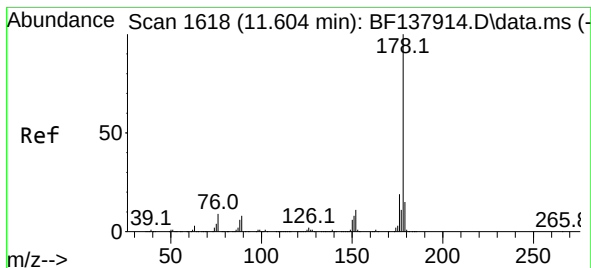
Ion Ratio Lower Upper

248 100

250 207.3 77.6 116.4#

141 404.3 61.4 92.2#





#71

Phenanthrene

Concen: 9.033 ng

RT: 11.598 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

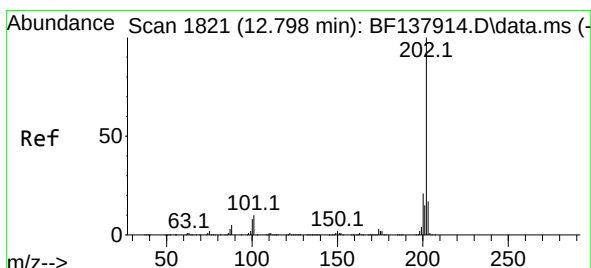
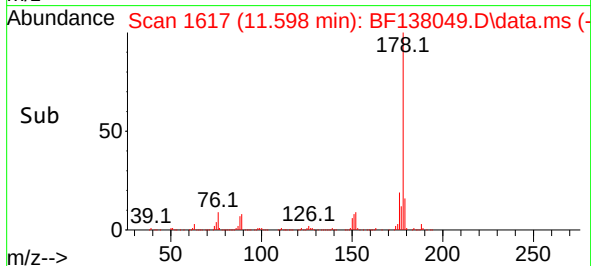
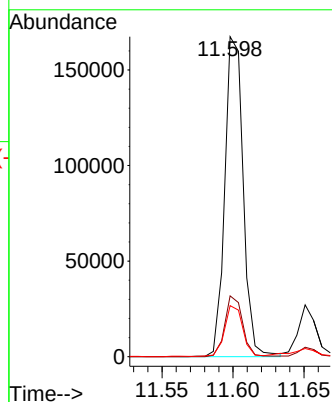
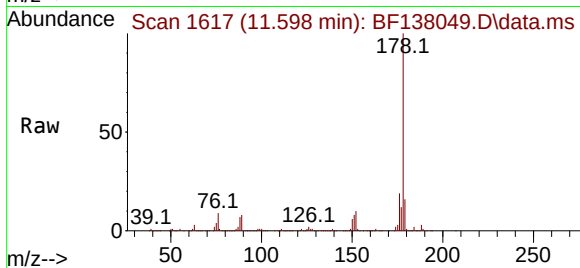
Tgt Ion:178 Resp: 150716

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 16.0 12.2 18.4



#75

Fluoranthene

Concen: 14.082 ng

RT: 12.798 min Scan# 1821

Delta R.T. -0.000 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

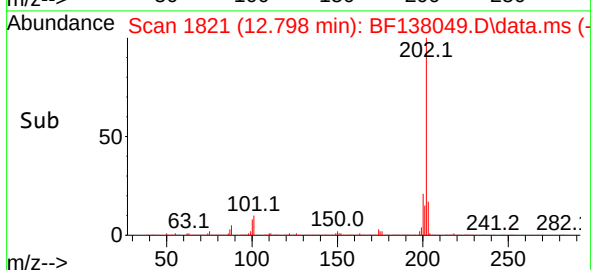
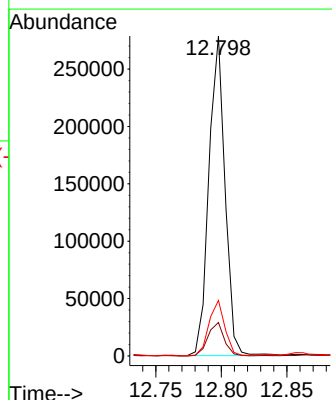
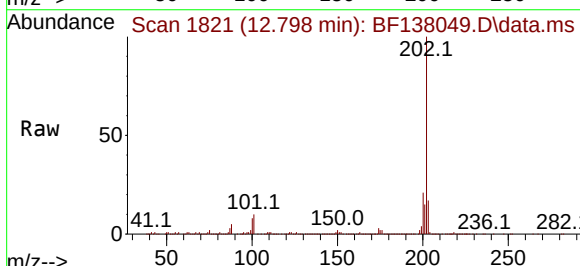
Tgt Ion:202 Resp: 238473

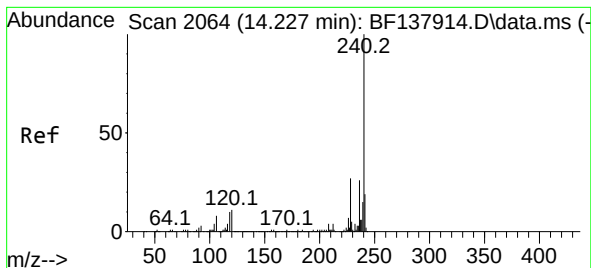
Ion Ratio Lower Upper

202 100

101 10.5 0.0 30.5

203 17.3 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.227 min Scan# 2064

Delta R.T. -0.000 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

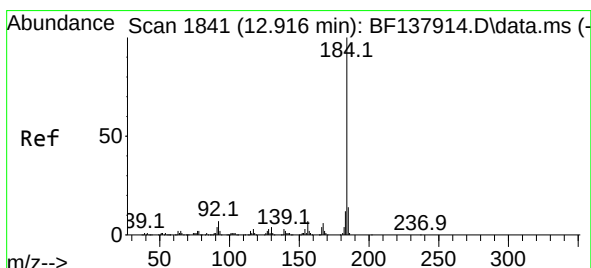
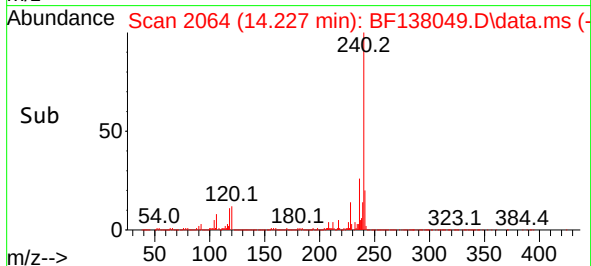
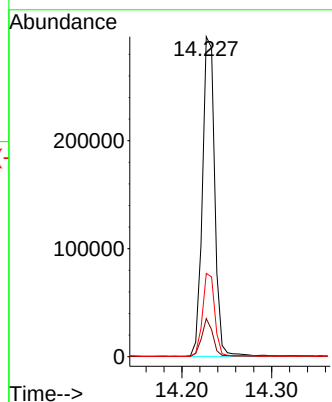
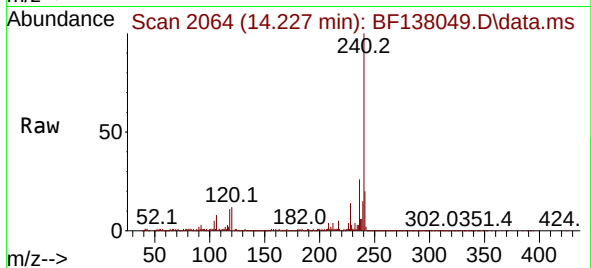
Tgt Ion:240 Resp: 282676

Ion Ratio Lower Upper

240 100

120 11.9 8.9 13.3

236 26.0 21.0 31.4



#77

Benzidine

Concen: 2.696 ng

RT: 13.162 min Scan# 1883

Delta R.T. 0.246 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

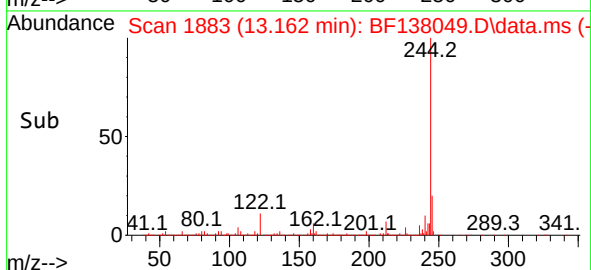
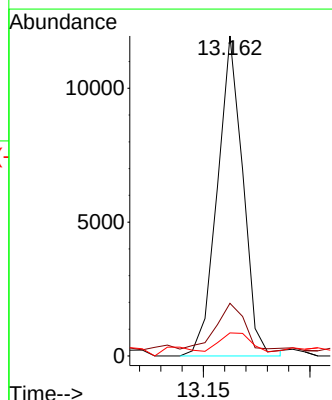
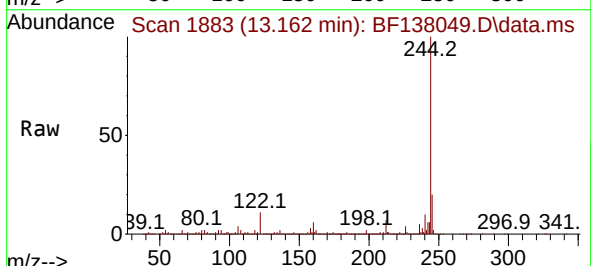
Tgt Ion:184 Resp: 9960

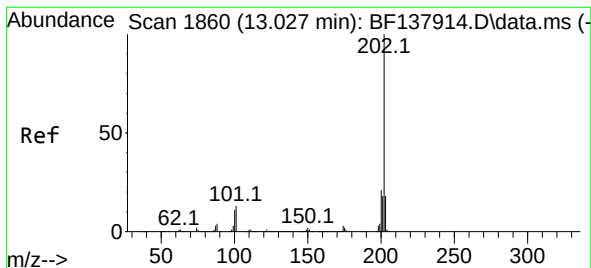
Ion Ratio Lower Upper

184 100

185 16.5 11.4 17.2

183 7.2 9.5 14.3#





#78

Pyrene

Concen: 8.216 ng

RT: 13.027 min Scan# 1860

Delta R.T. -0.000 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

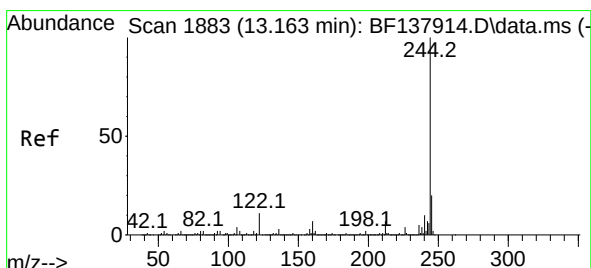
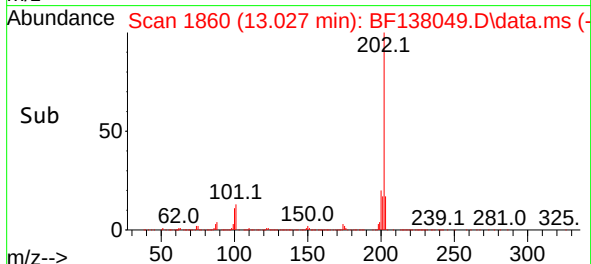
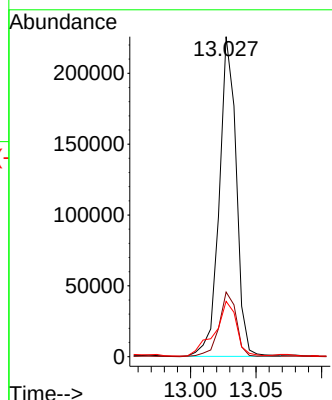
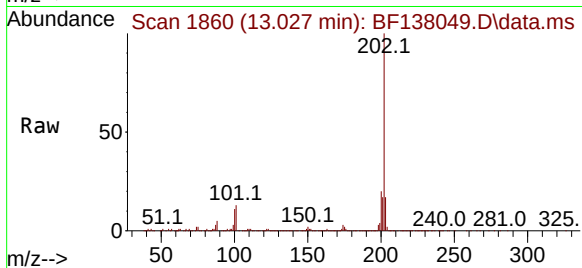
Tgt Ion:202 Resp: 203130

Ion Ratio Lower Upper

202 100

200 20.2 17.0 25.4

203 17.3 14.1 21.1



#79

Terphenyl-d14

Concen: 43.076 ng

RT: 13.162 min Scan# 1883

Delta R.T. -0.000 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

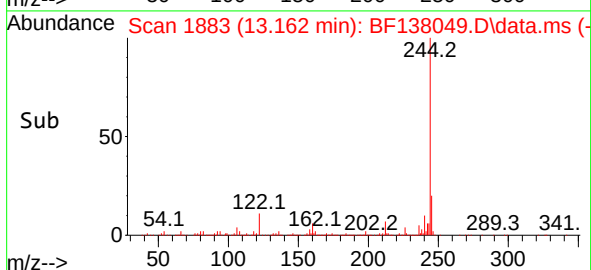
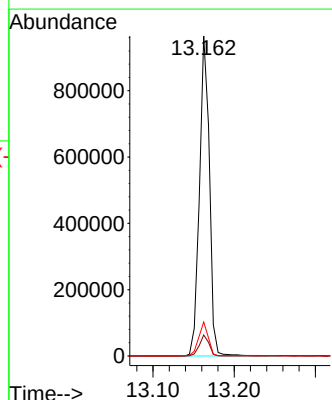
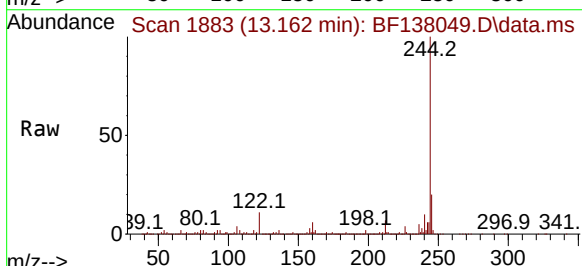
Tgt Ion:244 Resp: 826193

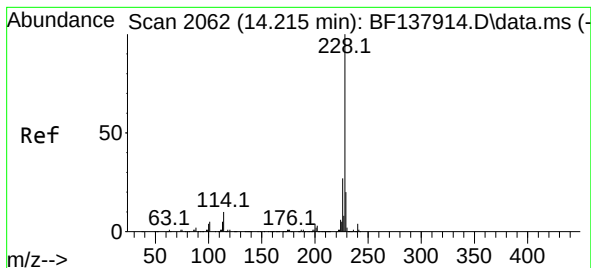
Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

122 10.6 8.8 13.2





#81

Benzo(a)anthracene

Concen: 5.447 ng

RT: 14.221 min Scan# 2062

Delta R.T. 0.006 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

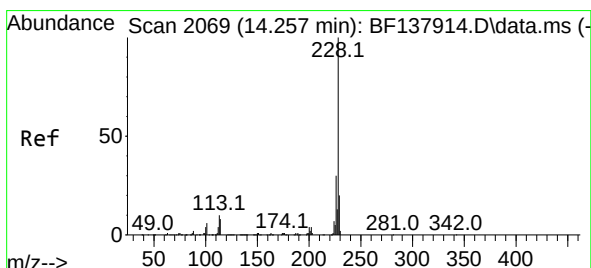
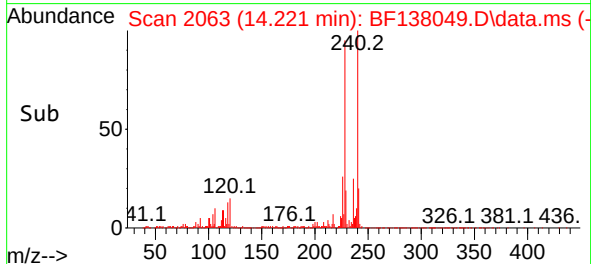
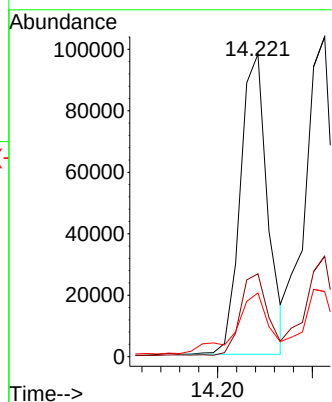
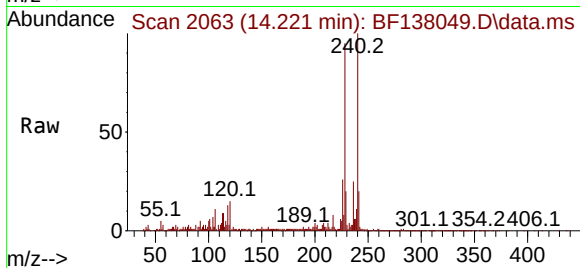
Tgt Ion:228 Resp: 97405

Ion Ratio Lower Upper

228 100

226 27.4 21.3 31.9

229 21.1 15.7 23.5



#83

Chrysene

Concen: 6.243 ng

RT: 14.257 min Scan# 2069

Delta R.T. -0.000 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

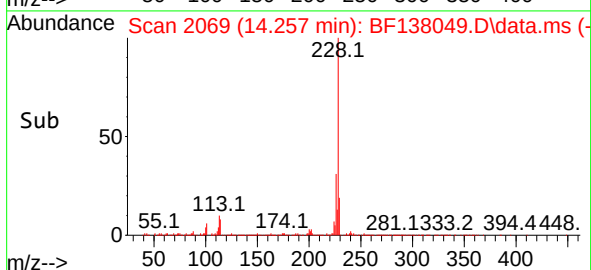
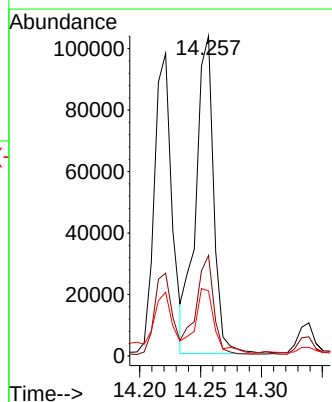
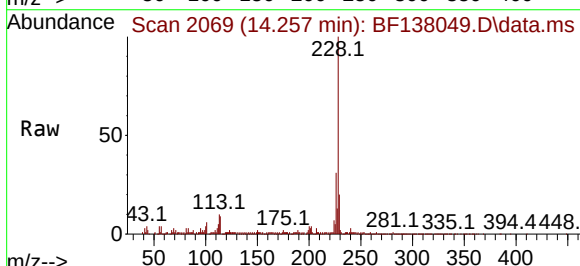
Tgt Ion:228 Resp: 106781

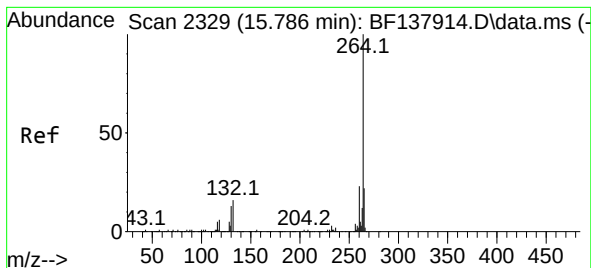
Ion Ratio Lower Upper

228 100

226 31.4 23.8 35.8

229 20.3 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.798 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

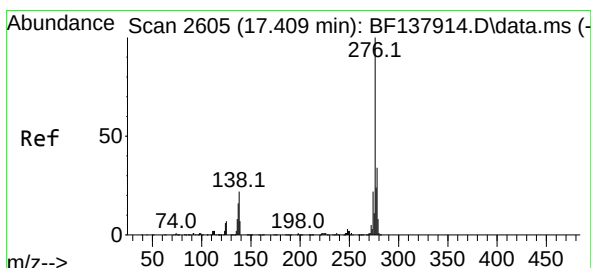
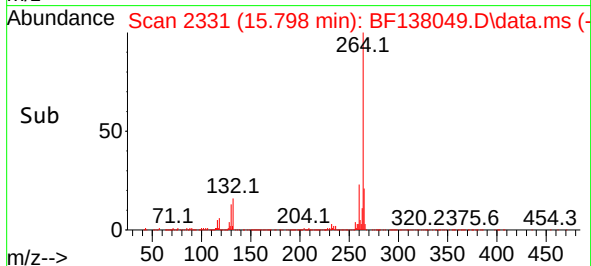
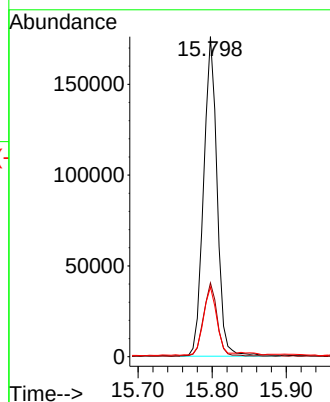
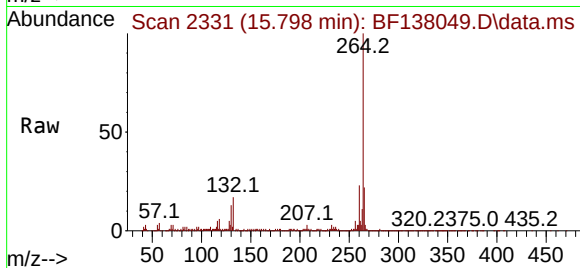
Tgt Ion:264 Resp: 223233

Ion Ratio Lower Upper

264 100

260 23.1 18.3 27.5

265 21.8 17.6 26.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.386 ng

RT: 17.421 min Scan# 2607

Delta R.T. 0.012 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

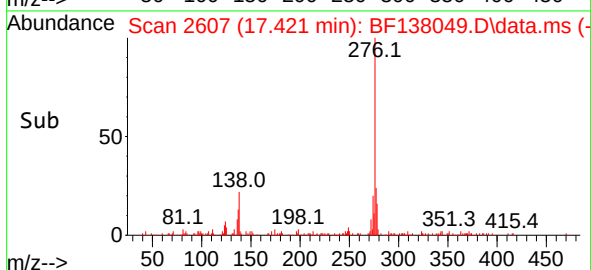
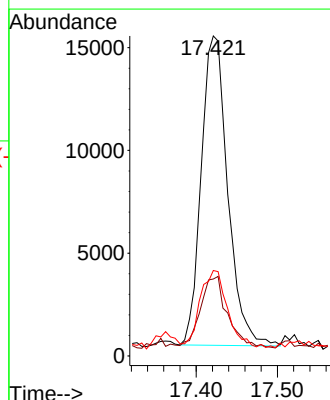
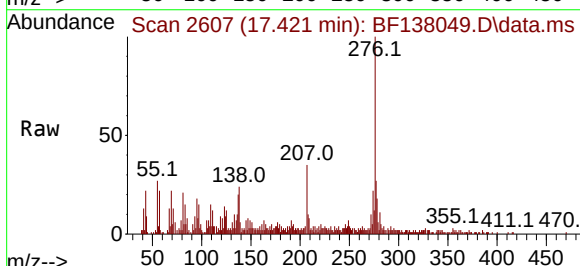
Tgt Ion:276 Resp: 34220

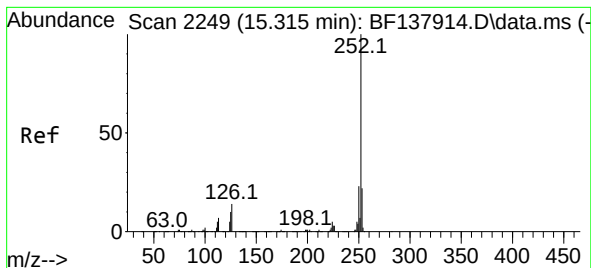
Ion Ratio Lower Upper

276 100

138 23.6 20.6 30.8

277 28.1 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 11.106 ng

RT: 15.321 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

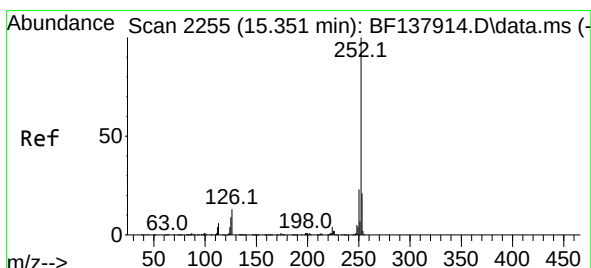
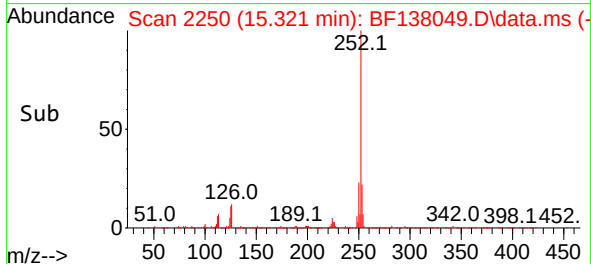
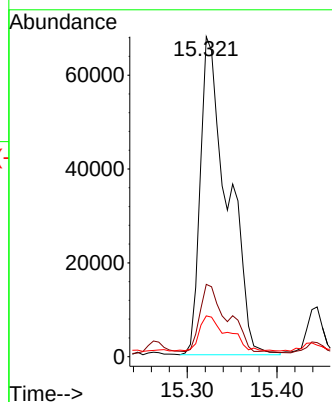
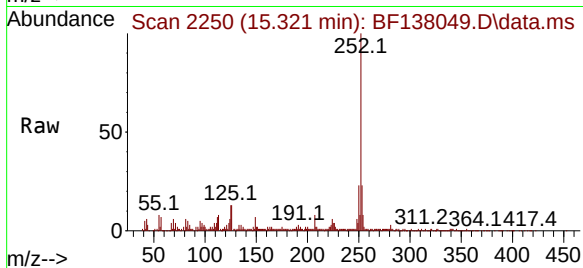
Tgt Ion:252 Resp: 143545

Ion Ratio Lower Upper

252 100

253 22.6 17.6 26.4

125 12.7 8.2 12.4#



#89

Benzo(k)fluoranthene

Concen: 11.305 ng

RT: 15.321 min Scan# 2250

Delta R.T. -0.030 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

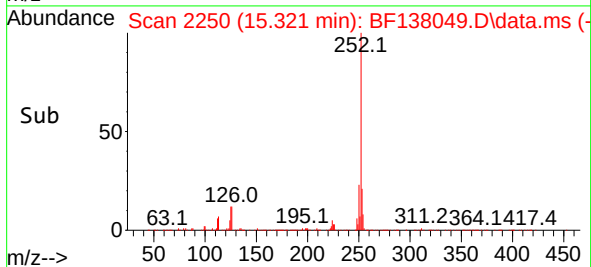
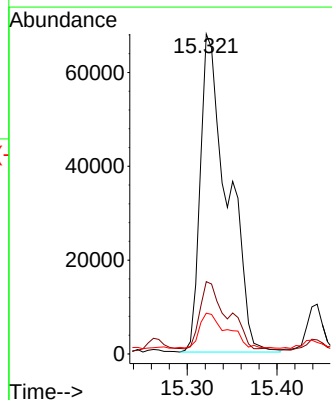
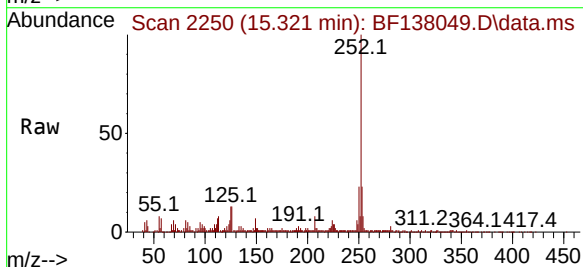
Tgt Ion:252 Resp: 143545

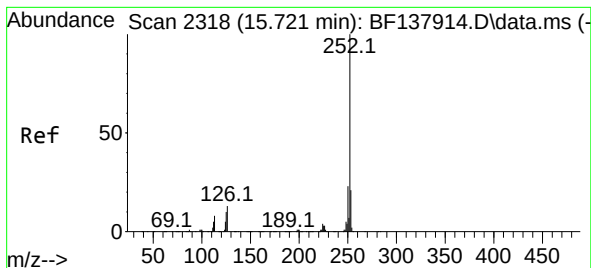
Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

125 12.7 7.7 11.5#





#90

Benzo(a)pyrene

Concen: 5.761 ng

RT: 15.727 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-206

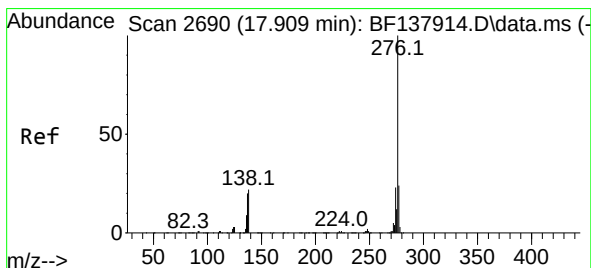
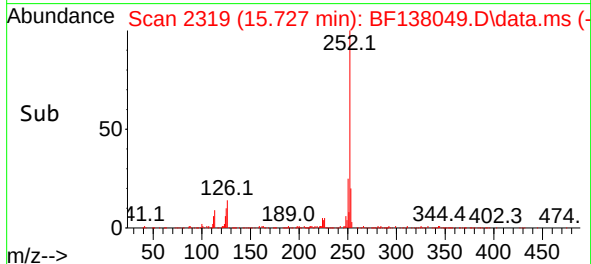
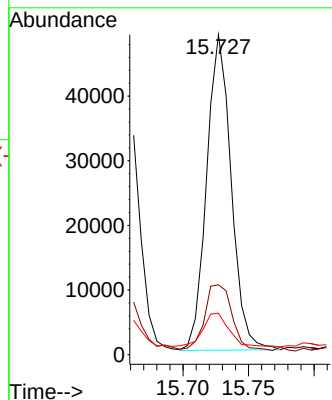
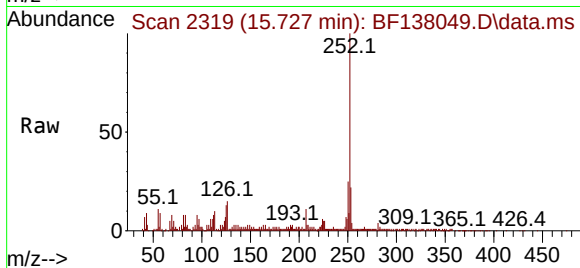
Tgt Ion:252 Resp: 63582

Ion Ratio Lower Upper

252 100

253 21.8 17.0 25.6

125 12.9 7.8 11.8#



#92

Benzo(g,h,i)perylene

Concen: 2.809 ng

RT: 17.921 min Scan# 2692

Delta R.T. 0.012 min

Lab File: BF138049.D

Acq: 28 May 2024 16:07

Tgt Ion:276 Resp: 34963

Ion Ratio Lower Upper

276 100

277 26.3 18.9 28.3

138 25.5 17.6 26.4

