

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF062425\  
 Data File : BF142829.D  
 Acq On : 24 Jun 2025 20:07  
 Operator : RC/JU  
 Sample : Q2381-03 2X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-207

Quant Time: Jun 25 01:30:23 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 24 05:28:21 2025  
 Response via : Initial Calibration

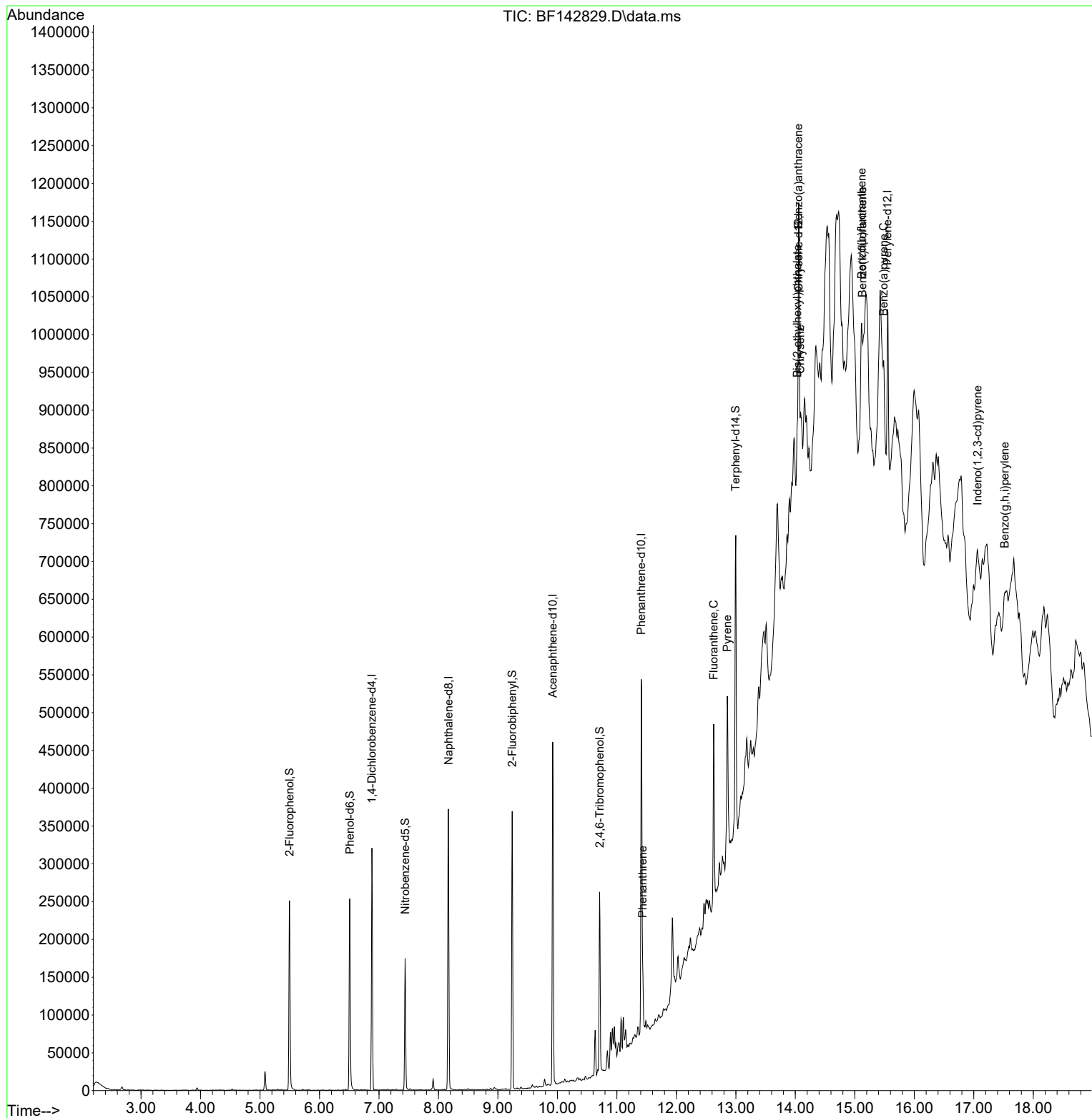
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 69027    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 246519   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 131375   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.410 | 188  | 250374   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 173991   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.551 | 264  | 121998   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 104464   | 25.197 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 121217   | 24.782 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.439  | 82   | 70151    | 15.609 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 37860    | 28.004 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 159928   | 15.992 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.998 | 244  | 193435   | 15.361 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene              | 11.433 | 178  | 41523    | 3.062  | ng    | 98       |
| 75) Fluoranthene              | 12.627 | 202  | 125252   | 9.731  | ng    | 99       |
| 78) Pyrene                    | 12.857 | 202  | 122573   | 7.516  | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 49264    | 4.197  | ng    | # 87     |
| 83) Chrysene                  | 14.080 | 228  | 53393    | 5.098  | ng    | # 92     |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149  | 40833    | 5.999  | ng    | # 93     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.062 | 276  | 24037    | 2.587  | ng    | # 89     |
| 88) Benzo(b)fluoranthene      | 15.115 | 252  | 57395m   | 8.130  | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.127 | 252  | 22866m   | 3.462  | ng    |          |
| 90) Benzo(a)pyrene            | 15.486 | 252  | 34620    | 5.076  | ng    | # 51     |
| 92) Benzo(g,h,i)perylene      | 17.521 | 276  | 24770    | 3.290  | ng    | # 79     |
| -----                         |        |      |          |        |       |          |

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

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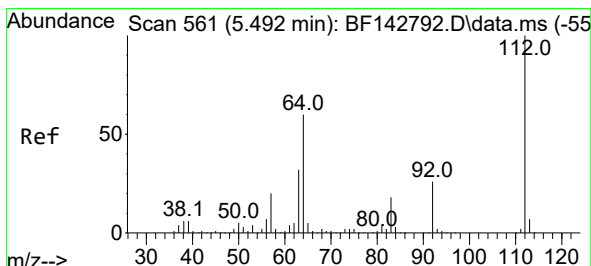
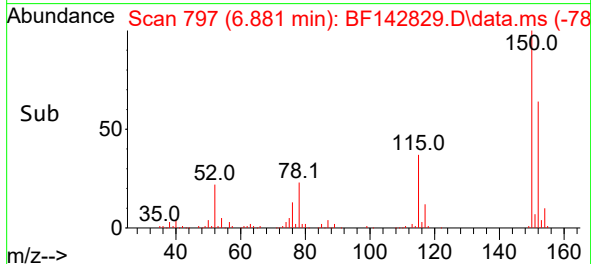
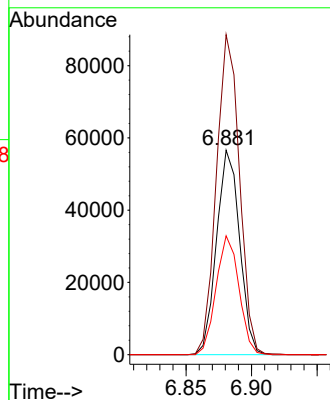
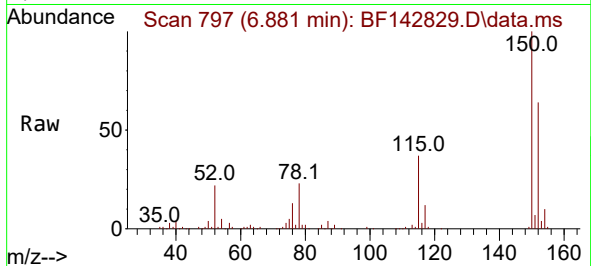




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 797  
Delta R.T. -0.000 min  
Lab File: BF142829.D  
Acq: 24 Jun 2025 20:07

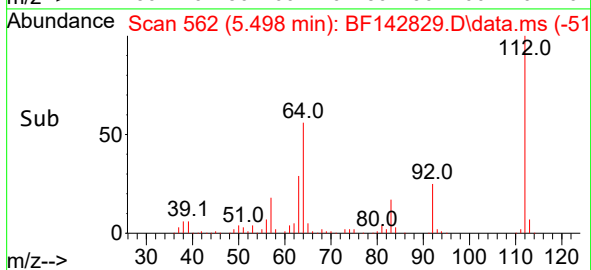
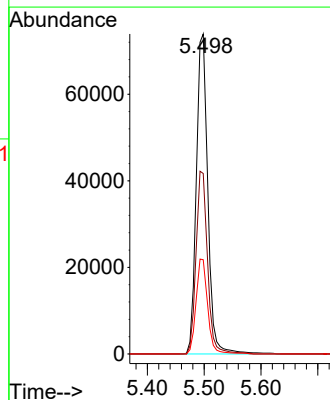
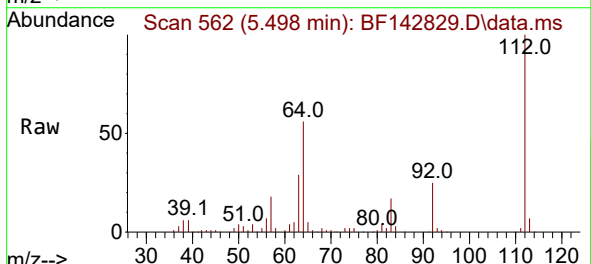
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-207

Tgt Ion:152 Resp: 69027  
Ion Ratio Lower Upper  
152 100  
150 156.4 127.2 190.8  
115 58.1 46.6 69.8



#5  
2-Fluorophenol  
Concen: 25.197 ng  
RT: 5.498 min Scan# 562  
Delta R.T. 0.006 min  
Lab File: BF142829.D  
Acq: 24 Jun 2025 20:07

Tgt Ion:112 Resp: 104464  
Ion Ratio Lower Upper  
112 100  
64 56.4 48.2 72.2  
63 29.5 25.7 38.5

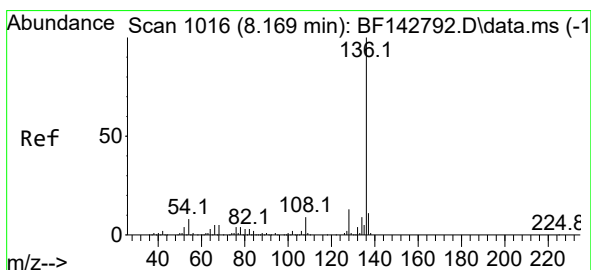
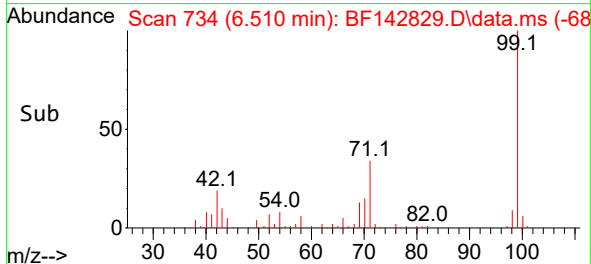
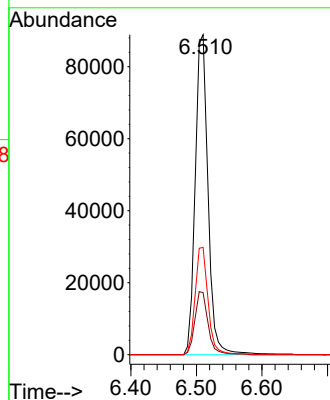
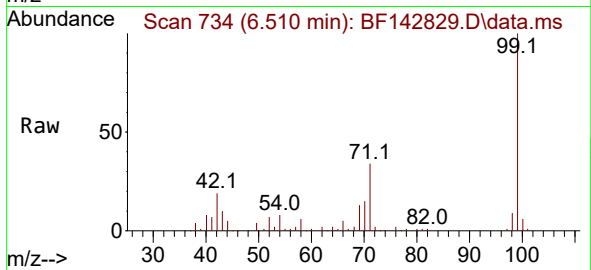




#7  
Phenol-d6  
Concen: 24.782 ng  
RT: 6.510 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF142829.D  
Acq: 24 Jun 2025 20:07

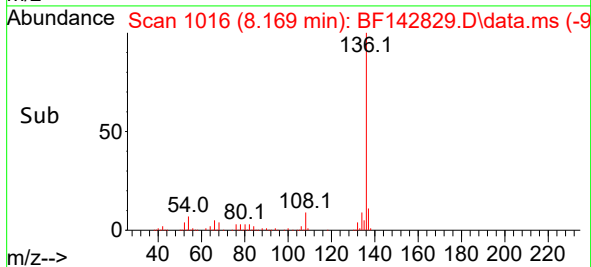
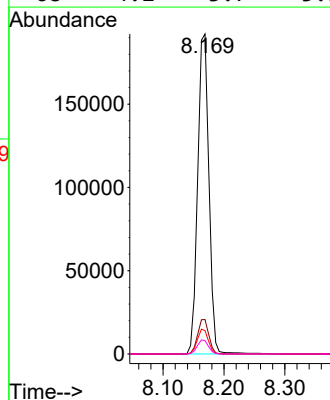
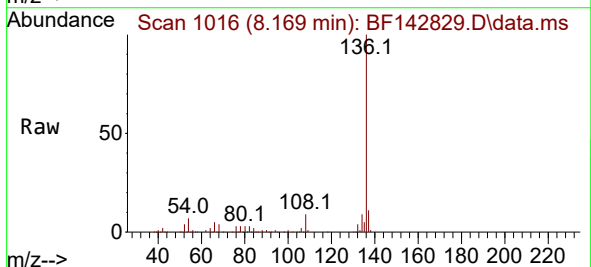
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-207

Tgt Ion: 99 Resp: 121217  
Ion Ratio Lower Upper  
99 100  
42 19.4 15.9 23.9  
71 33.5 27.8 41.8



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1016  
Delta R.T. 0.000 min  
Lab File: BF142829.D  
Acq: 24 Jun 2025 20:07

Tgt Ion:136 Resp: 246519  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.4 12.6  
54 7.3 6.3 9.5  
68 4.2 3.7 5.5





#23

Nitrobenzene-d5

Concen: 15.609 ng

RT: 7.439 min Scan# 893

Delta R.T. -0.006 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207

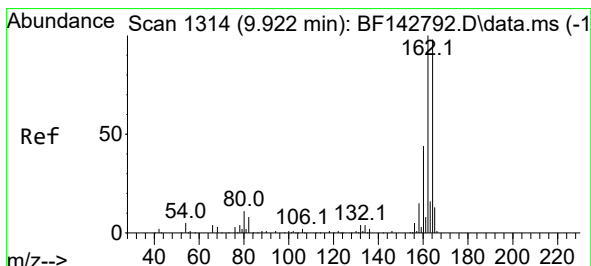
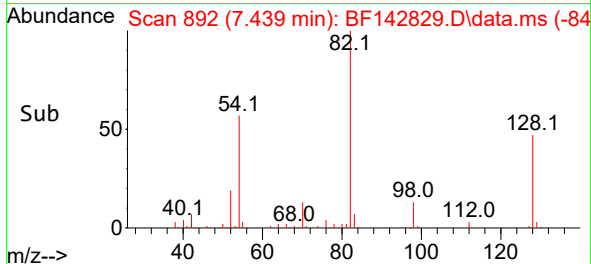
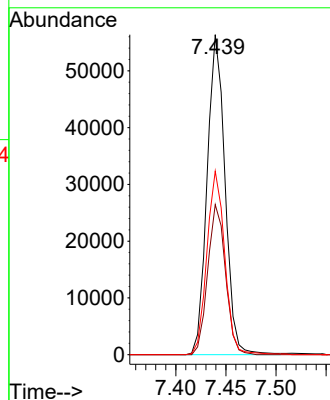
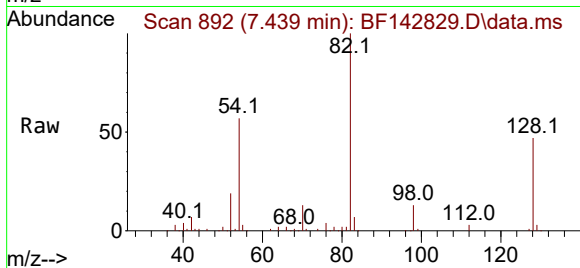
Tgt Ion: 82 Resp: 70151

Ion Ratio Lower Upper

82 100

128 46.9 37.7 56.5

54 57.4 45.7 68.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

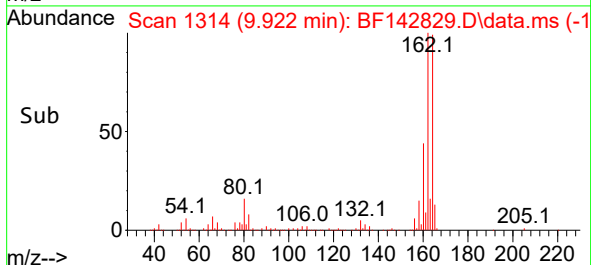
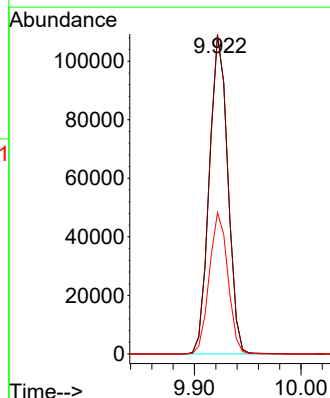
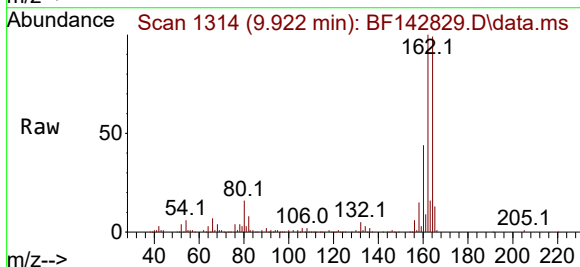
Tgt Ion:164 Resp: 131375

Ion Ratio Lower Upper

164 100

162 100.6 81.8 122.8

160 44.5 36.0 54.0

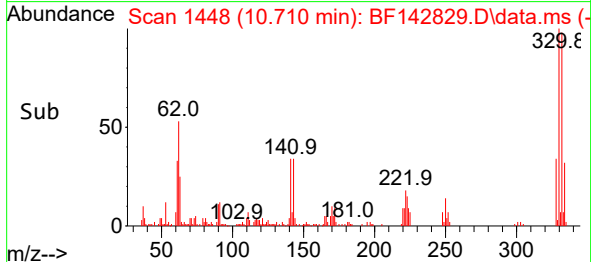
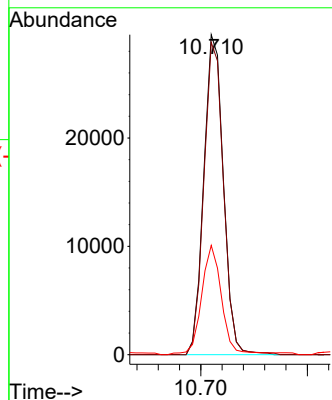
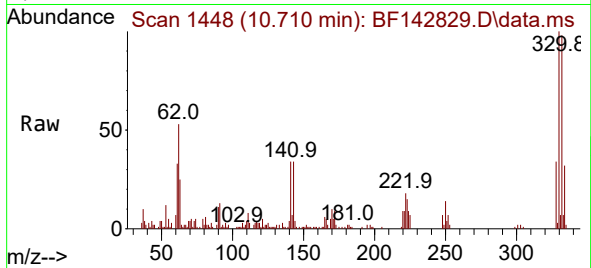




#42  
 2,4,6-Tribromophenol  
 Concen: 28.004 ng  
 RT: 10.710 min Scan# 1448  
 Delta R.T. -0.006 min  
 Lab File: BF142829.D  
 Acq: 24 Jun 2025 20:07

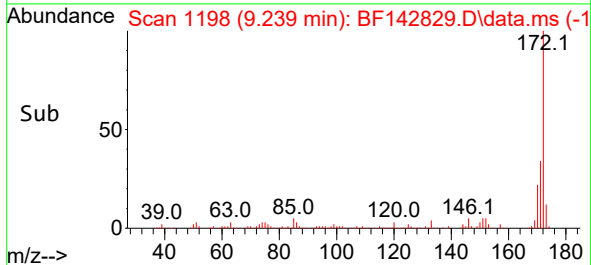
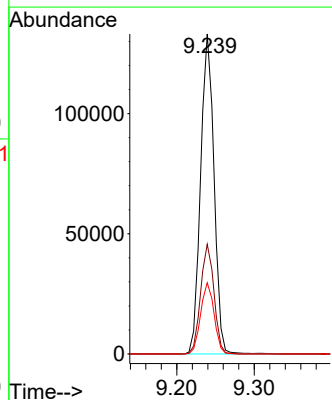
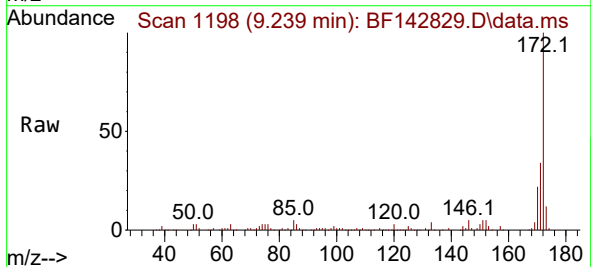
Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-207

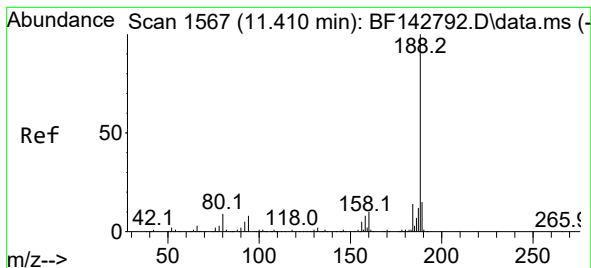
Tgt Ion:330 Resp: 37860  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 75.0 112.6  
 141 34.9 25.3 37.9



#45  
 2-Fluorobiphenyl  
 Concen: 15.992 ng  
 RT: 9.239 min Scan# 1198  
 Delta R.T. -0.006 min  
 Lab File: BF142829.D  
 Acq: 24 Jun 2025 20:07

Tgt Ion:172 Resp: 159928  
 Ion Ratio Lower Upper  
 172 100  
 171 34.3 28.2 42.4  
 170 22.3 18.5 27.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207

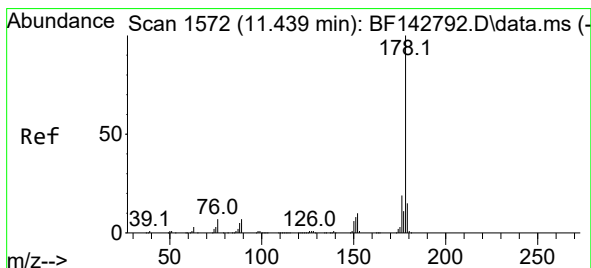
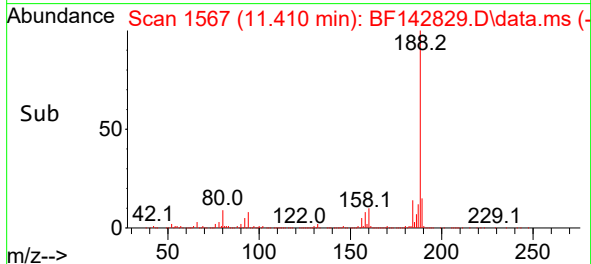
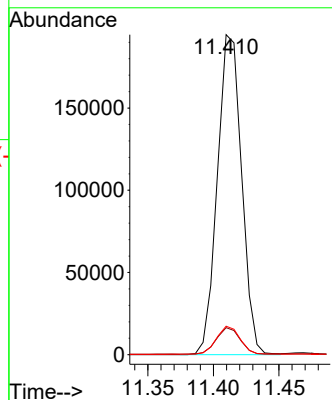
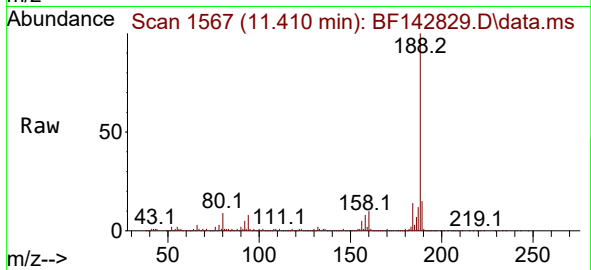
Tgt Ion:188 Resp: 250374

Ion Ratio Lower Upper

188 100

94 8.4 6.7 10.1

80 8.9 6.9 10.3



#71

Phenanthrene

Concen: 3.062 ng

RT: 11.433 min Scan# 1571

Delta R.T. -0.006 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

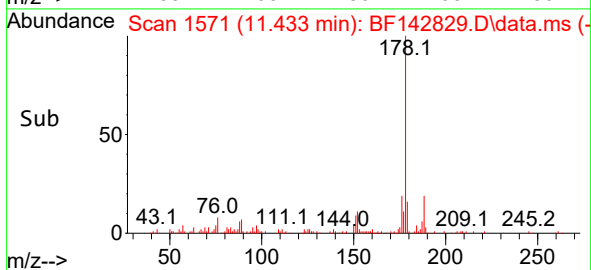
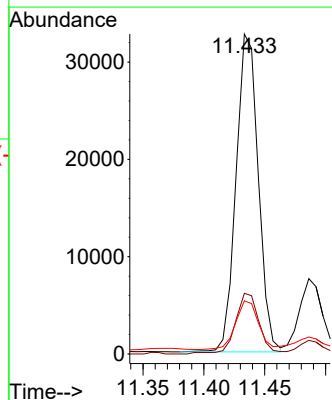
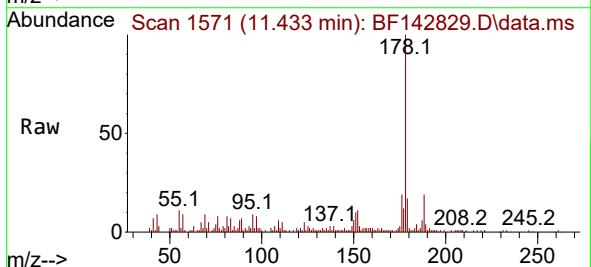
Tgt Ion:178 Resp: 41523

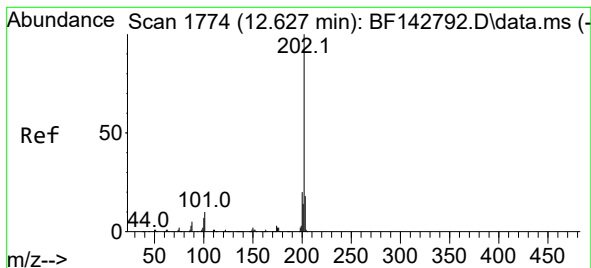
Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 16.6 12.0 18.0





#75

Fluoranthene

Concen: 9.731 ng

RT: 12.627 min Scan# 1774

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207

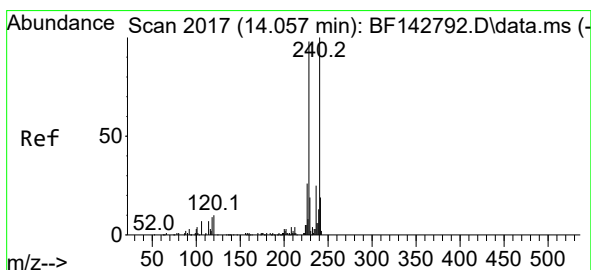
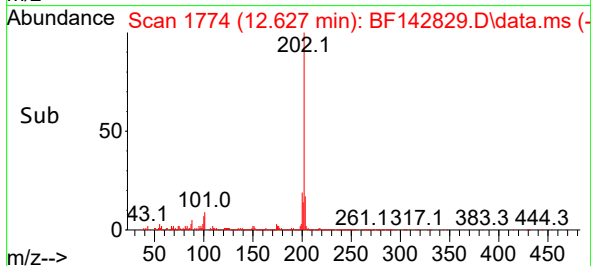
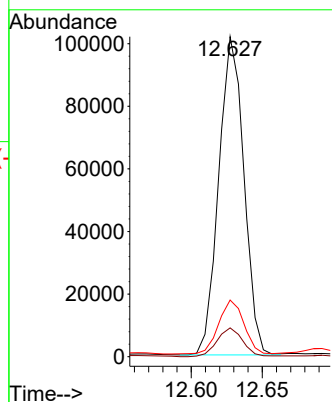
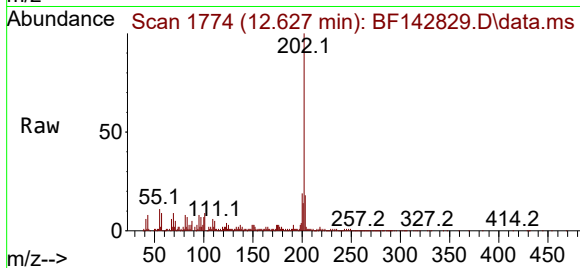
Tgt Ion:202 Resp: 125252

Ion Ratio Lower Upper

202 100

101 9.0 0.0 29.7

203 17.7 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

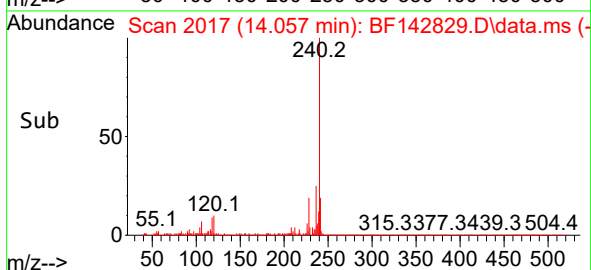
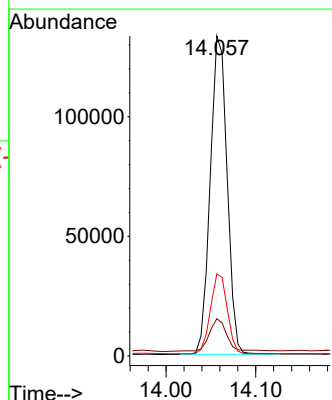
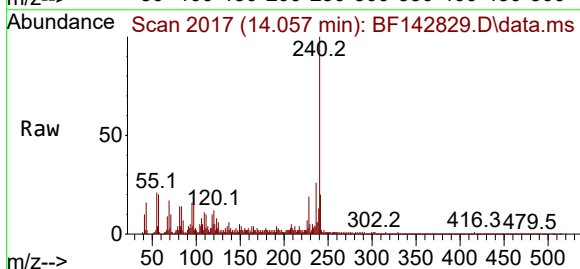
Tgt Ion:240 Resp: 173991

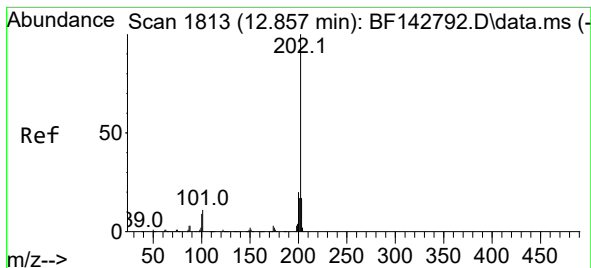
Ion Ratio Lower Upper

240 100

120 11.7 8.2 12.2

236 25.7 19.8 29.8





#78

Pyrene

Concen: 7.516 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207

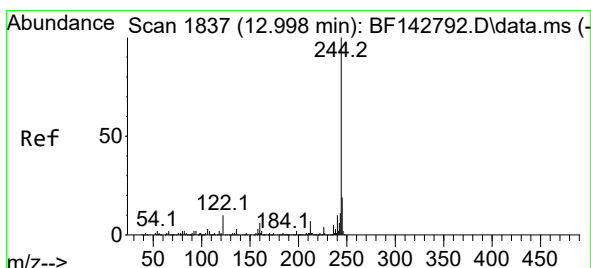
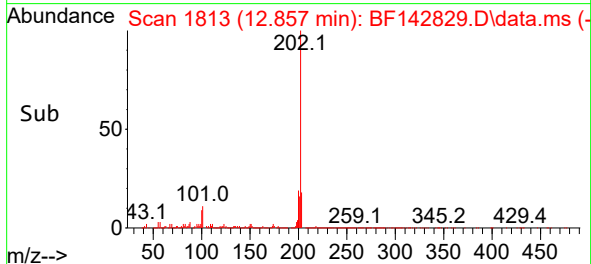
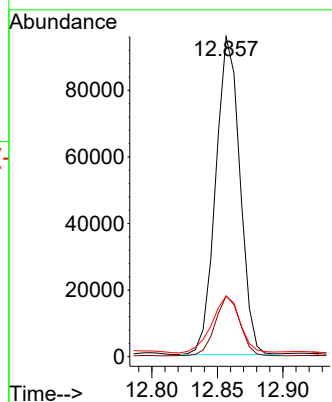
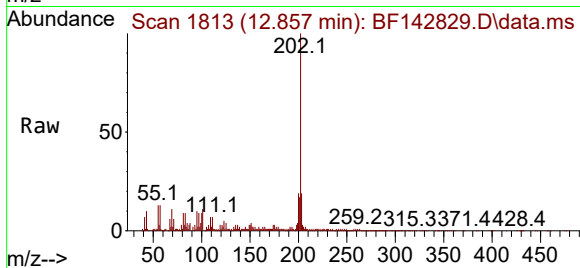
Tgt Ion:202 Resp: 122573

Ion Ratio Lower Upper

202 100

200 19.0 15.7 23.5

203 19.0 13.8 20.6



#79

Terphenyl-d14

Concen: 15.361 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

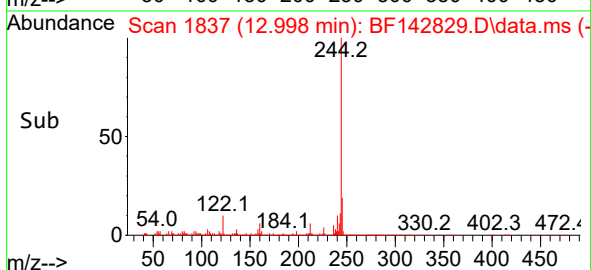
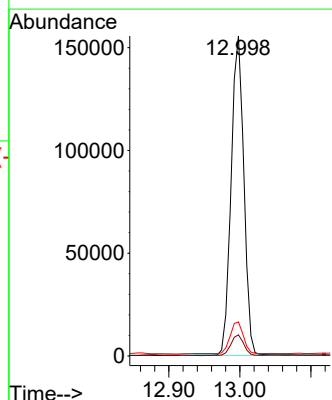
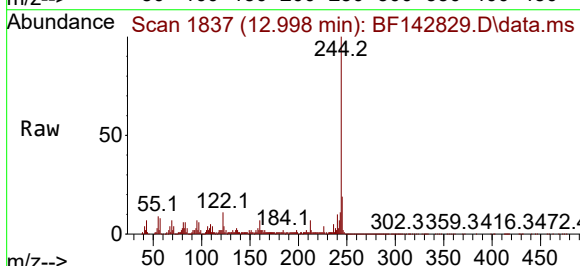
Tgt Ion:244 Resp: 193435

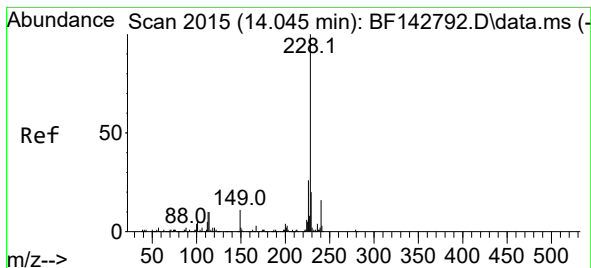
Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 10.6 8.2 12.2





#81

Benzo(a)anthracene

Concen: 4.197 ng

RT: 14.051 min Scan# 2015

Delta R.T. 0.006 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207

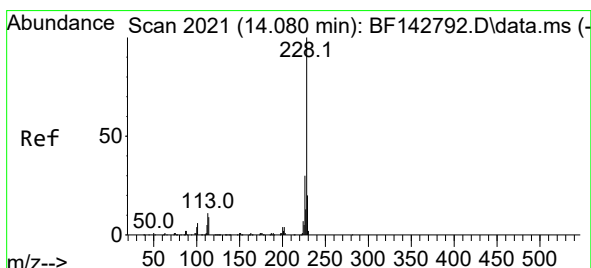
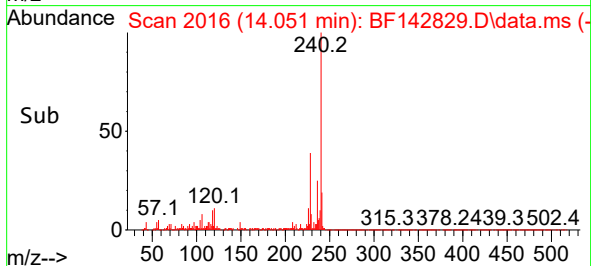
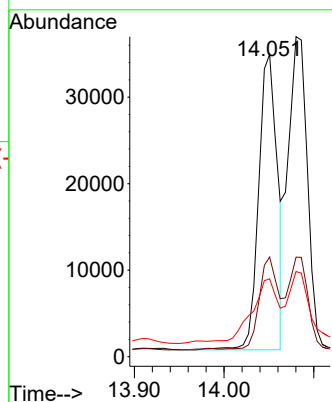
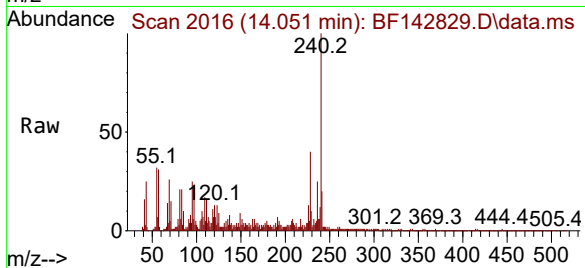
Tgt Ion:228 Resp: 49264

Ion Ratio Lower Upper

228 100

226 33.0 21.2 31.8#

229 25.7 15.6 23.4#



#83

Chrysene

Concen: 5.098 ng

RT: 14.080 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

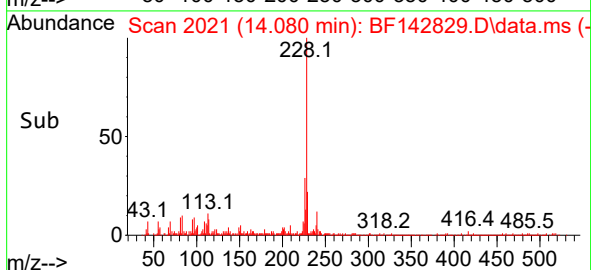
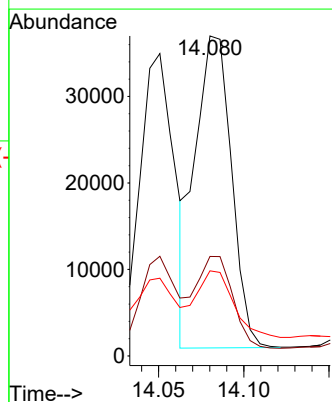
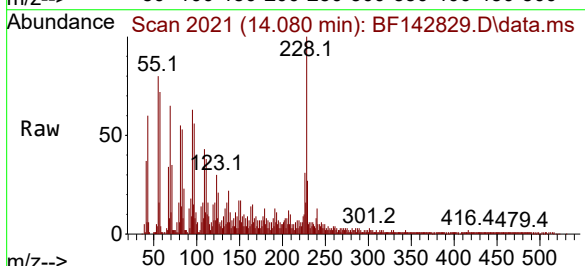
Tgt Ion:228 Resp: 53393

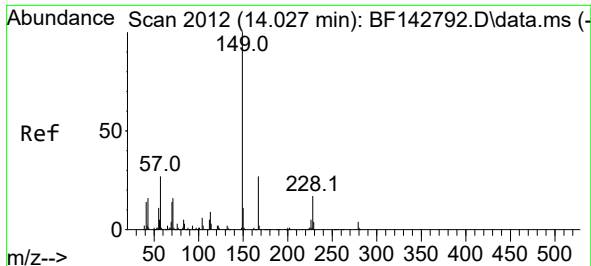
Ion Ratio Lower Upper

228 100

226 31.1 23.7 35.5

229 26.6 15.7 23.5#

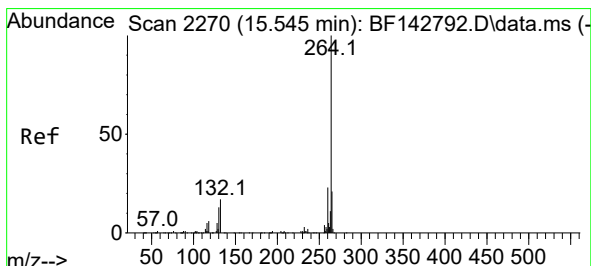
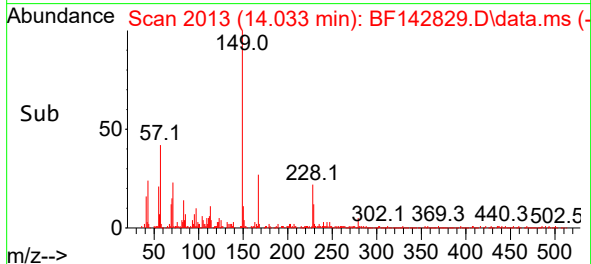
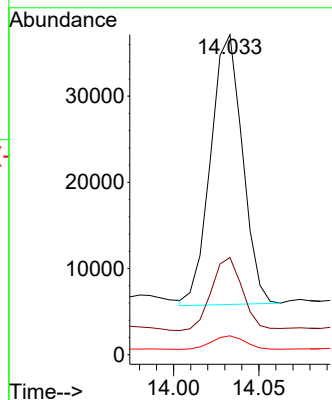
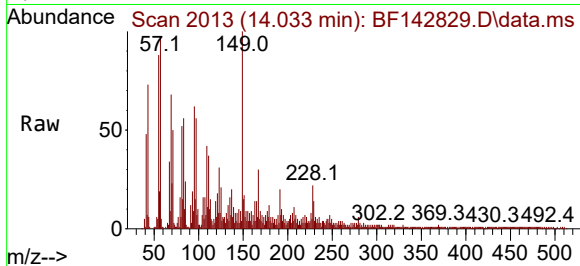




#84  
Bis(2-ethylhexyl)phthalate  
Concen: 5.999 ng  
RT: 14.033 min Scan# 2012  
Delta R.T. 0.006 min  
Lab File: BF142829.D  
Acq: 24 Jun 2025 20:07

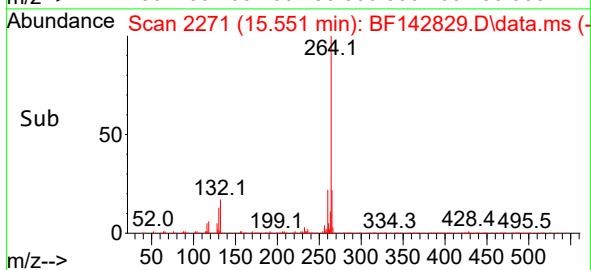
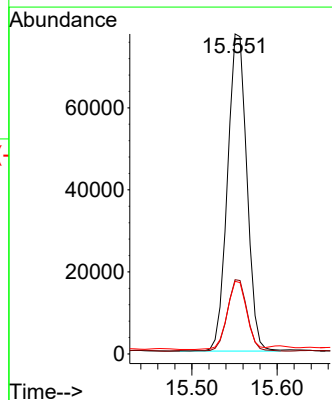
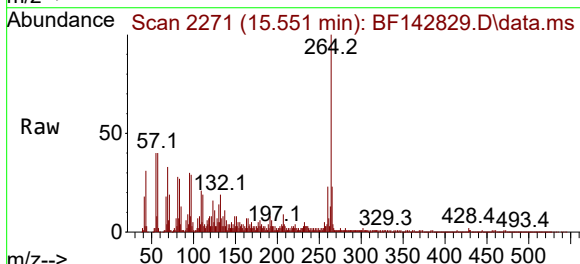
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-207

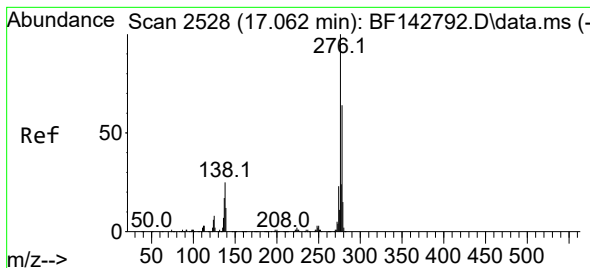
Tgt Ion:149 Resp: 40833  
Ion Ratio Lower Upper  
149 100  
167 30.4 21.4 32.0  
279 5.9 3.0 4.6#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.551 min Scan# 2271  
Delta R.T. 0.006 min  
Lab File: BF142829.D  
Acq: 24 Jun 2025 20:07

Tgt Ion:264 Resp: 121998  
Ion Ratio Lower Upper  
264 100  
260 23.2 18.1 27.1  
265 22.7 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.587 ng

RT: 17.062 min Scan# 2197

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207

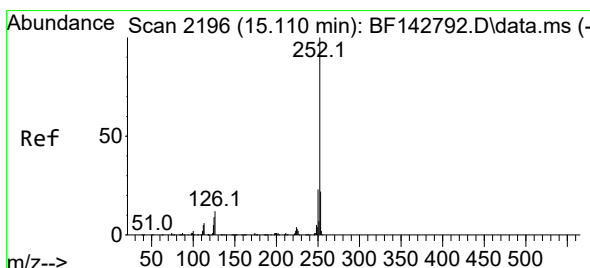
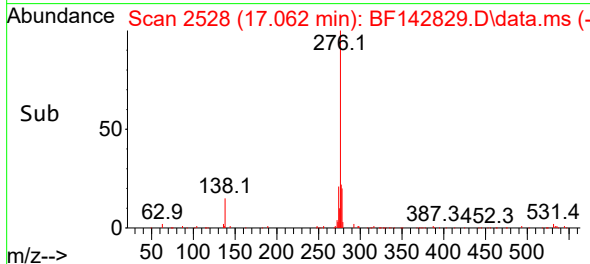
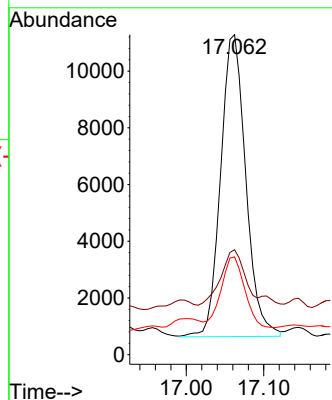
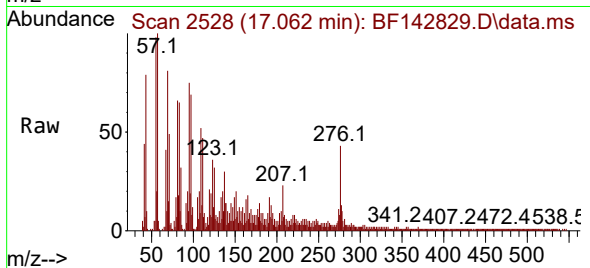
Tgt Ion:276 Resp: 24037

Ion Ratio Lower Upper

276 100

138 17.2 20.2 30.4#

277 21.8 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 8.130 ng m

RT: 15.115 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

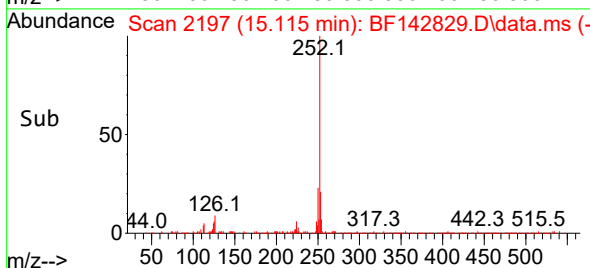
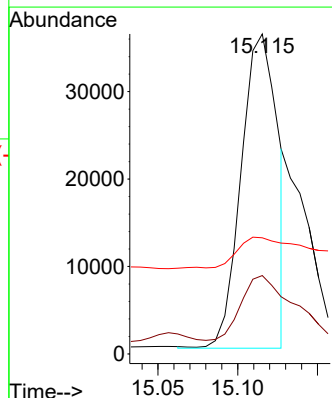
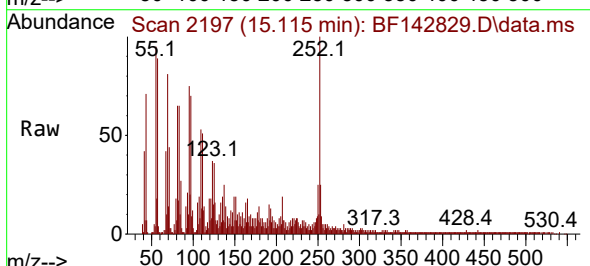
Tgt Ion:252 Resp: 57395

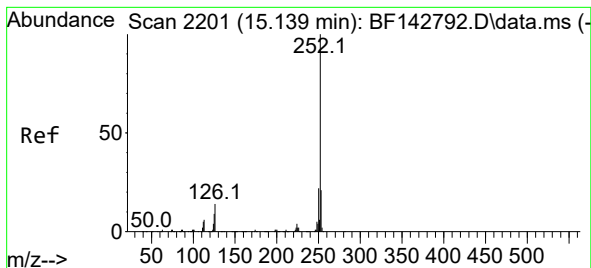
Ion Ratio Lower Upper

252 100

253 24.5 17.5 26.3

125 36.3 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 3.462 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207

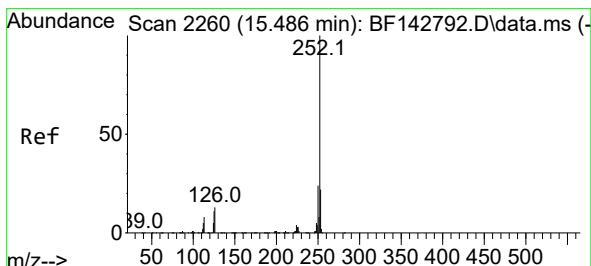
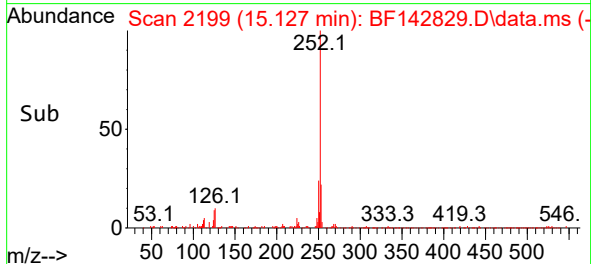
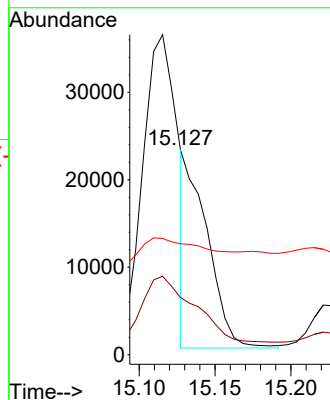
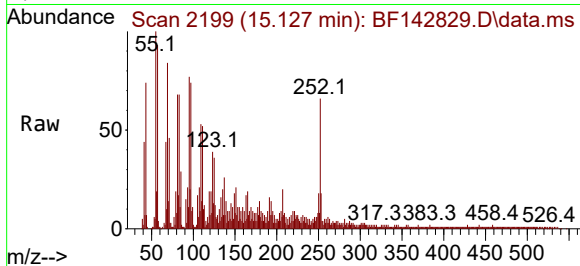
Tgt Ion:252 Resp: 22866

Ion Ratio Lower Upper

252 100

253 27.9 17.2 25.8#

125 54.0 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 5.076 ng

RT: 15.486 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BF142829.D

Acq: 24 Jun 2025 20:07

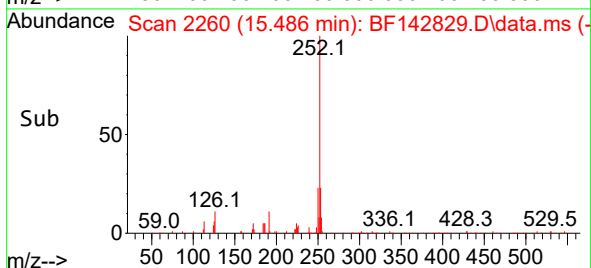
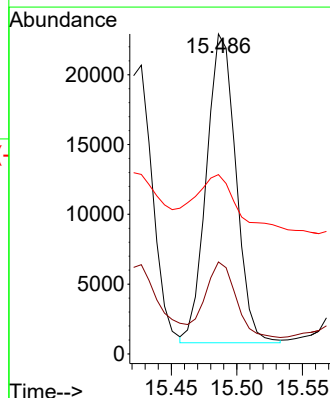
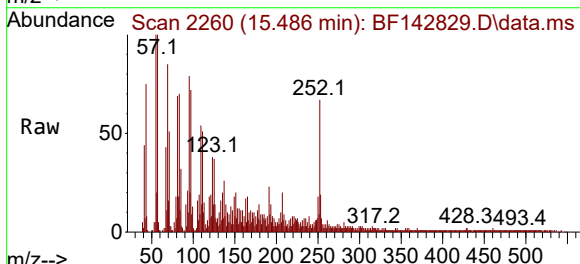
Tgt Ion:252 Resp: 34620

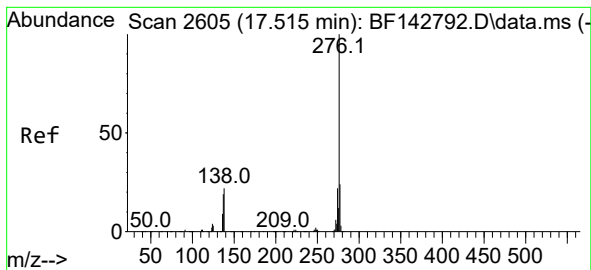
Ion Ratio Lower Upper

252 100

253 28.7 17.5 26.3#

125 56.1 8.6 12.8#





#92

Benzo(g,h,i)perylene

Concen: 3.290 ng

RT: 17.521 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF142829.D

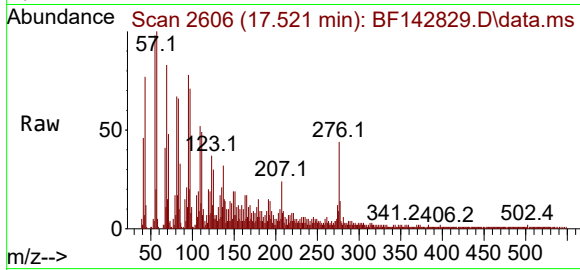
Acq: 24 Jun 2025 20:07

Instrument :

BNA\_F

ClientSampleId :

VNJ-207



Tgt Ion:276 Resp: 24770

Ion Ratio Lower Upper

276 100

277 31.0 18.8 28.2#

138 34.6 17.6 26.4#

