

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042225\  
 Data File : BM050001.D  
 Acq On : 22 Apr 2025 18:26  
 Operator : RC/JU  
 Sample : Q1841-02 2X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 VNJ-231

Quant Time: Apr 23 01:14:10 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 09 04:00:55 2025  
 Response via : Initial Calibration

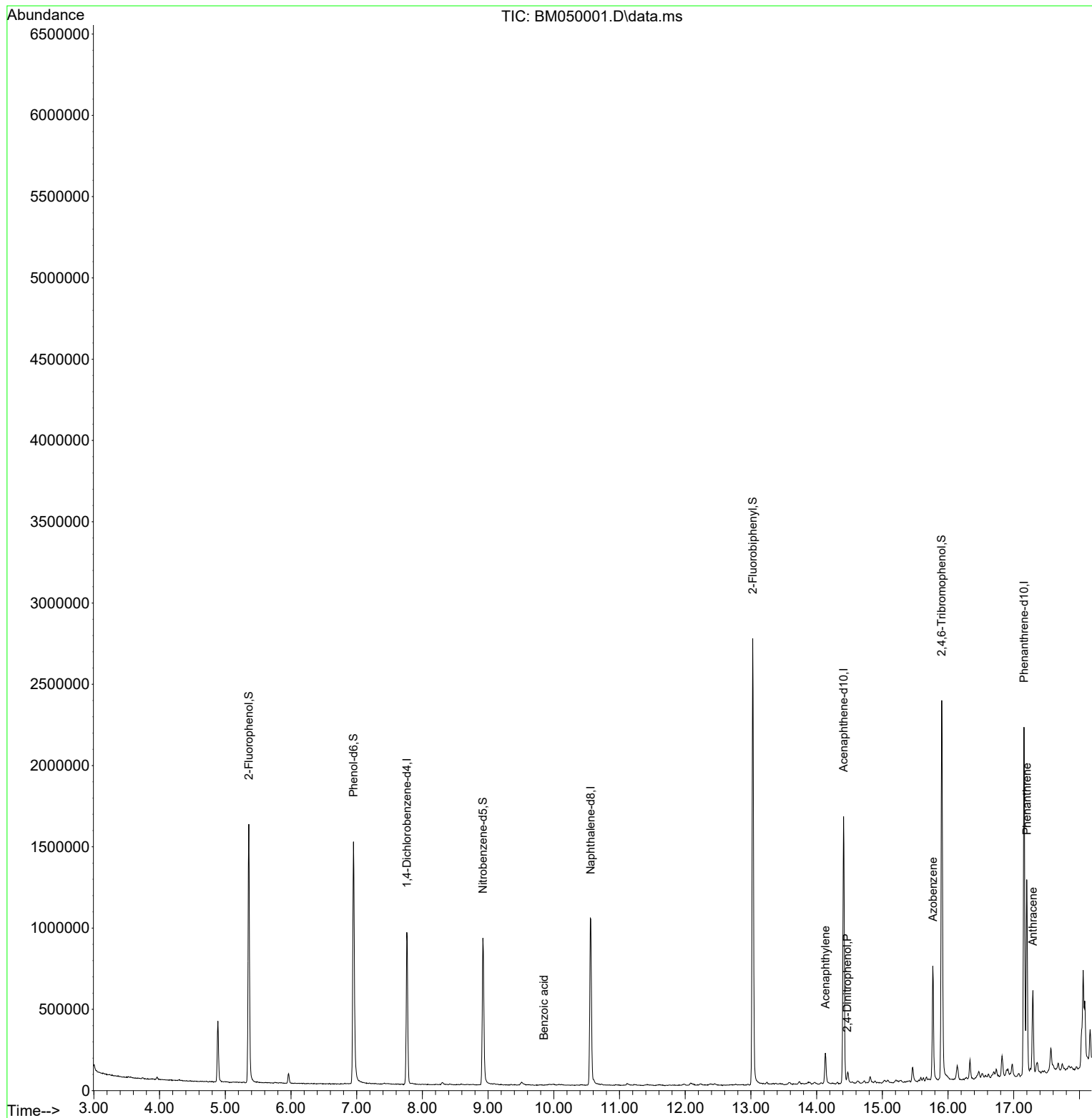
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.763  | 152  | 273555   | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8            | 10.563 | 136  | 949895   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.410 | 164  | 628616   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 17.156 | 188  | 1256519  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.397 | 240  | 1233964  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.403 | 264  | 1265403  | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.357  | 112  | 751304   | 46.637 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.951  | 99   | 1008957  | 50.338 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.922  | 82   | 572680   | 33.572 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 15.904 | 330  | 508718   | 55.637 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.027 | 172  | 1553346  | 33.508 | ng    | -0.02    |
| 79) Terphenyl-d14             | 19.780 | 244  | 2289627  | 34.773 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid              | 9.851  | 122  | 70       | 8.543  | ng    | # 14     |
| 49) Acenaphthylene            | 14.133 | 152  | 153648   | 2.872  | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 14.462 | 184  | 70       | 7.234  | ng    | # 1      |
| 63) Azobenzene                | 15.768 | 77   | 187614   | 5.153  | ng    | # 1      |
| 71) Phenanthrene              | 17.198 | 178  | 750108   | 10.889 | ng    | 100      |
| 72) Anthracene                | 17.292 | 178  | 345889   | 5.095  | ng    | 99       |
| 75) Fluoranthene              | 19.221 | 202  | 2990794  | 35.310 | ng    | 98       |
| 78) Pyrene                    | 19.580 | 202  | 2639296  | 31.035 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.380 | 228  | 1614045  | 19.681 | ng    | 98       |
| 83) Chrysene                  | 21.444 | 228  | 1729505  | 22.183 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.297 | 149  | 97691    | 2.098  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 27.791 | 276  | 1105015  | 11.715 | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 23.462 | 252  | 2614535  | 32.352 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.462 | 252  | 2614535  | 33.384 | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.262 | 252  | 1590330  | 22.394 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 27.826 | 278  | 292686   | 3.767  | ng    | 94       |
| 92) Benzo(g,h,i)perylene      | 28.850 | 276  | 1040455  | 13.105 | ng    | 99       |
| -----                         |        |      |          |        |       |          |

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

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
VNJ-231

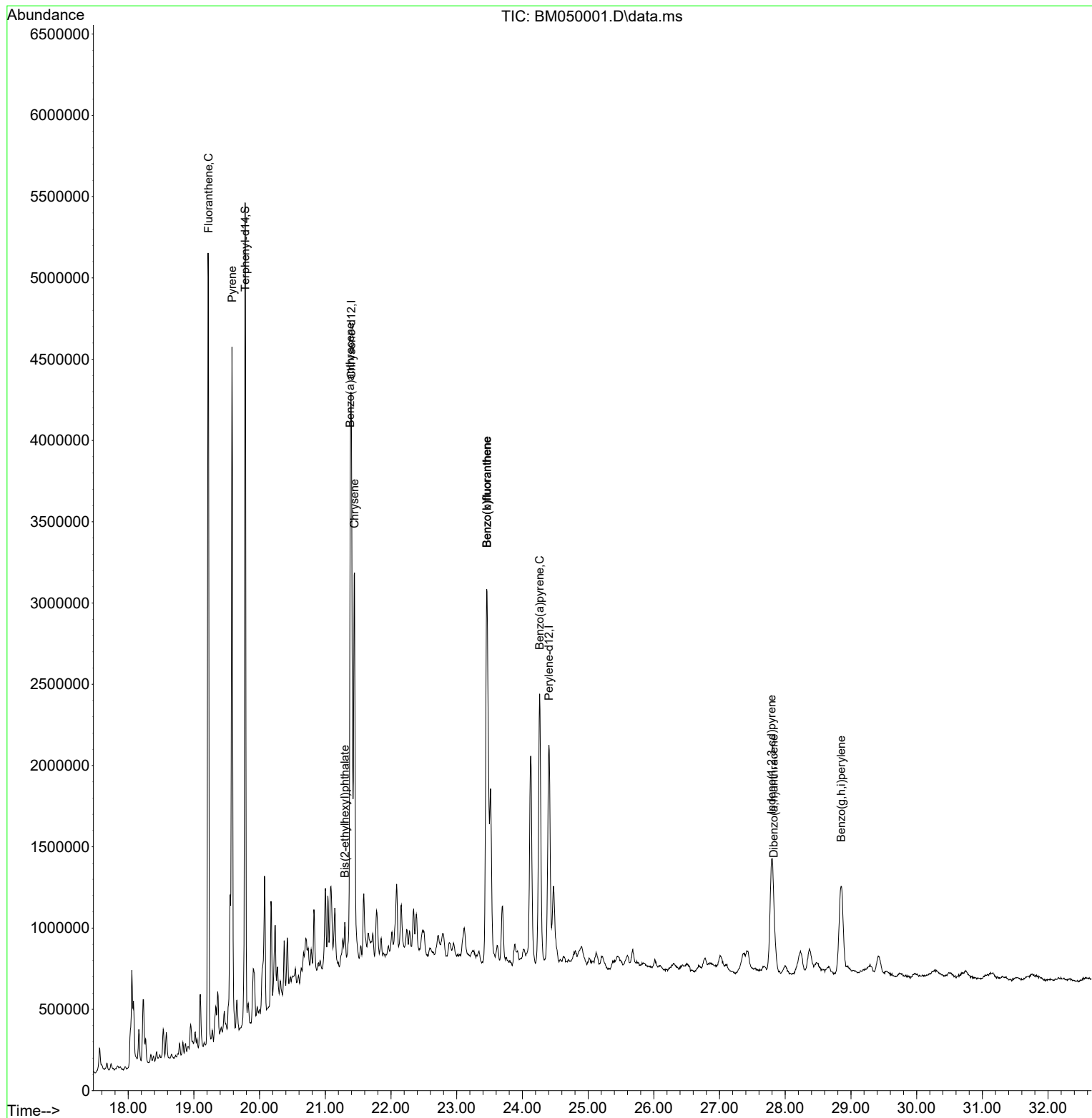
Quant Time: Apr 23 01:14:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 09 04:00:55 2025  
Response via : Initial Calibration

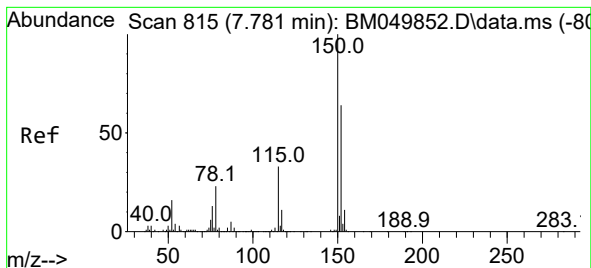


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QLast Update : Wed Apr 09 04:00:55 2025  
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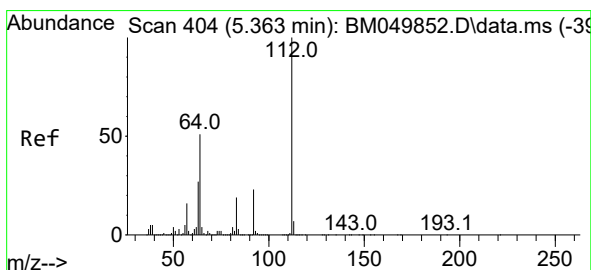
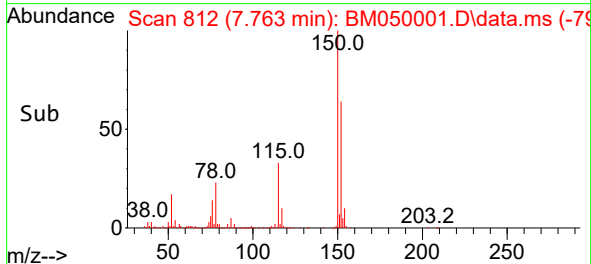
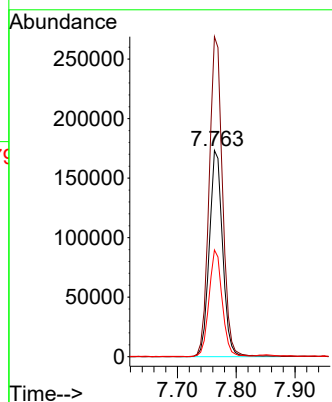
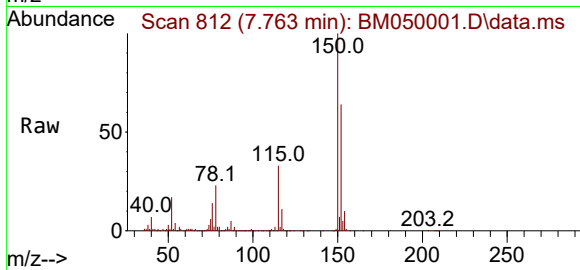




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.763 min Scan# 815  
Delta R.T. -0.018 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

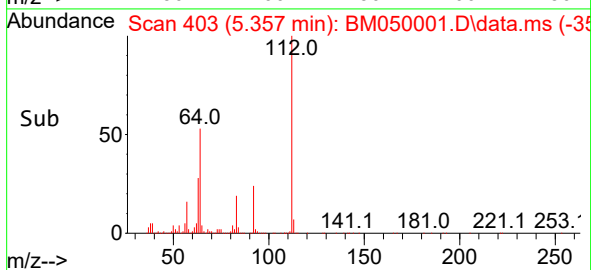
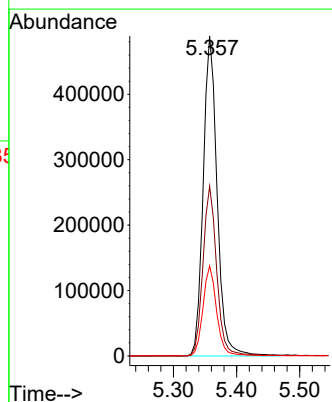
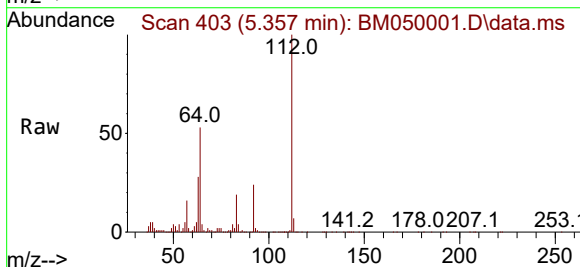
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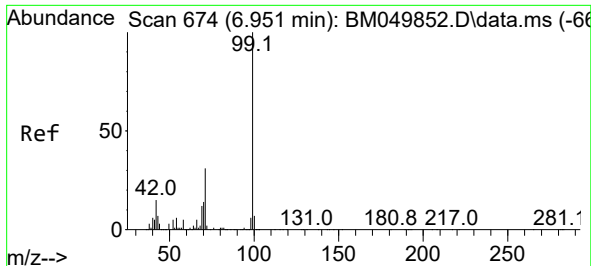
Tgt Ion:152 Resp: 273555  
Ion Ratio Lower Upper  
152 100  
150 155.2 124.3 186.5  
115 51.7 41.1 61.7



#5  
2-Fluorophenol  
Concen: 46.637 ng  
RT: 5.357 min Scan# 403  
Delta R.T. -0.006 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion:112 Resp: 751304  
Ion Ratio Lower Upper  
112 100  
64 53.0 41.0 61.6  
63 28.1 21.5 32.3

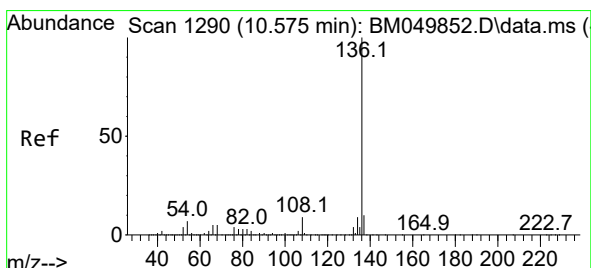
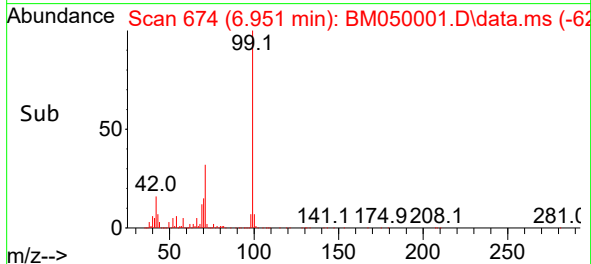
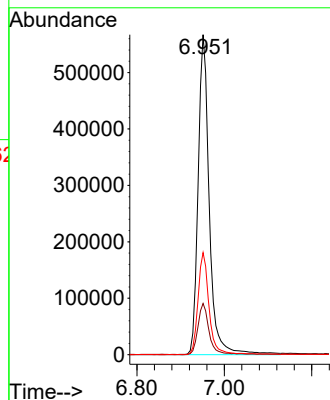
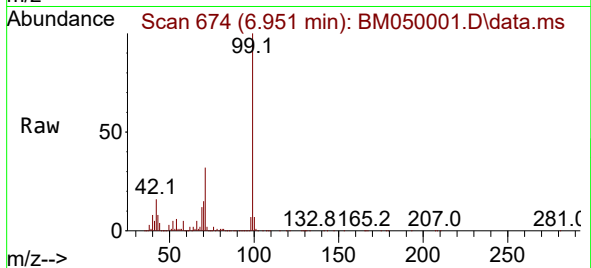




#7  
Phenol-d6  
Concen: 50.338 ng  
RT: 6.951 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

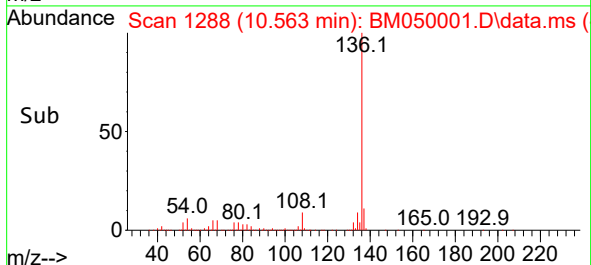
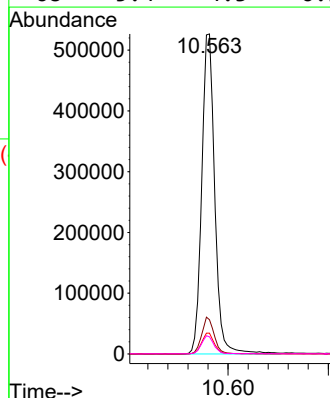
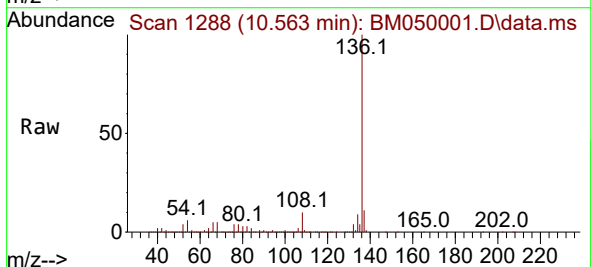
Instrument :  
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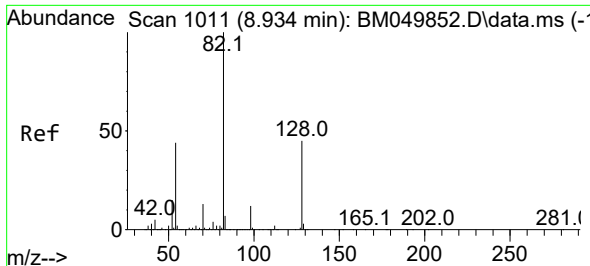
Tgt Ion: 99 Resp: 1008957  
Ion Ratio Lower Upper  
99 100  
42 16.0 12.1 18.1  
71 31.9 24.9 37.3



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.563 min Scan# 1288  
Delta R.T. -0.012 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion: 136 Resp: 949895  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.4 12.6  
54 6.5 5.3 7.9  
68 5.4 4.3 6.5

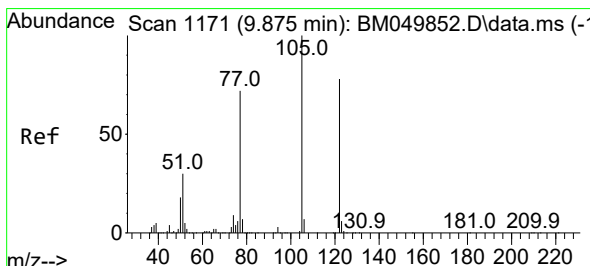
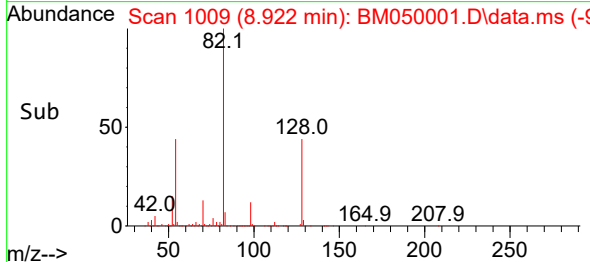
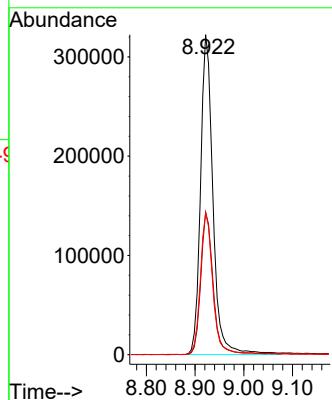
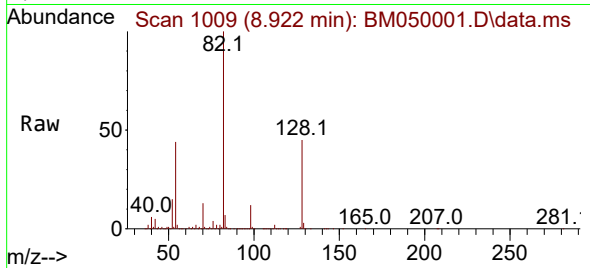




#23  
Nitrobenzene-d5  
Concen: 33.572 ng  
RT: 8.922 min Scan# 1009  
Delta R.T. -0.012 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

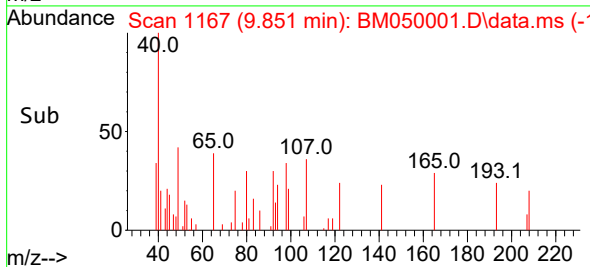
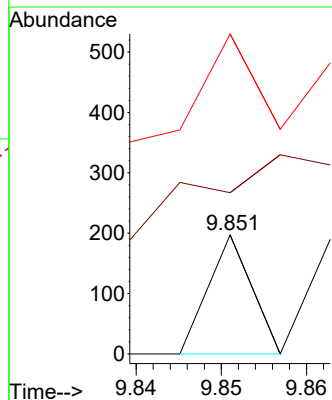
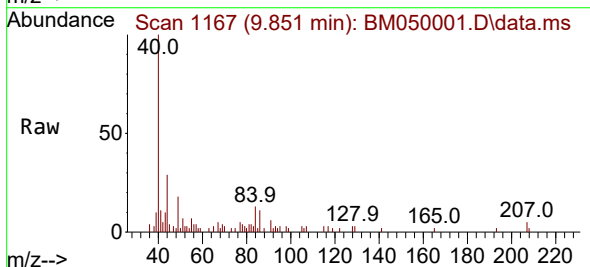
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ClientSampleId :  
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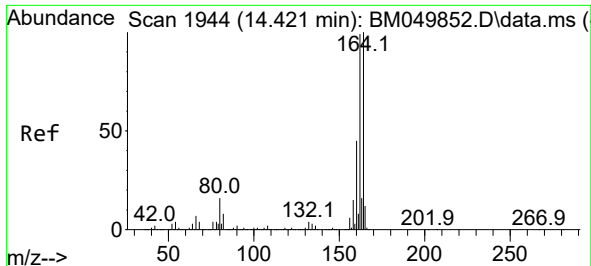
Tgt Ion: 82 Resp: 572680  
Ion Ratio Lower Upper  
82 100  
128 44.5 36.2 54.2  
54 44.4 35.0 52.6



#32  
Benzoic acid  
Concen: 8.543 ng  
RT: 9.851 min Scan# 1167  
Delta R.T. -0.024 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion: 122 Resp: 70  
Ion Ratio Lower Upper  
122 100  
105 135.5 103.8 143.8  
77 269.0 70.7 110.7#

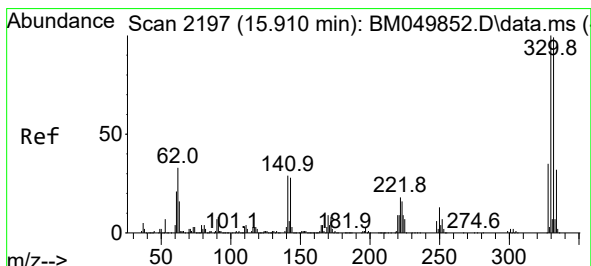
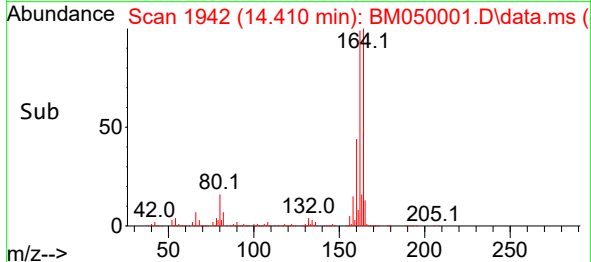
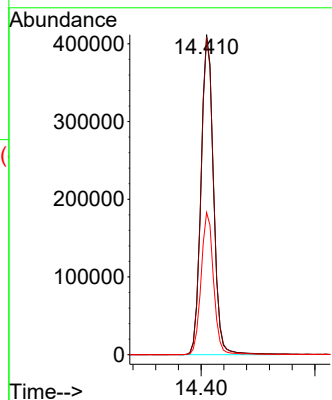
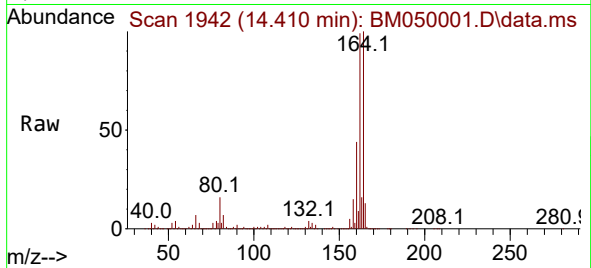




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.410 min Scan# 1942  
Delta R.T. -0.012 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

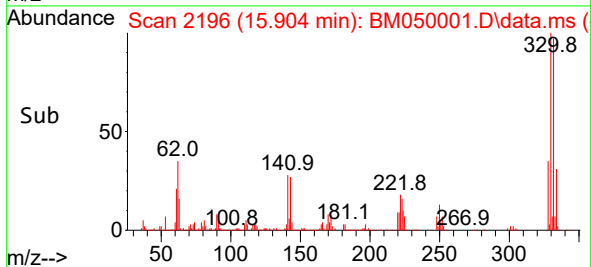
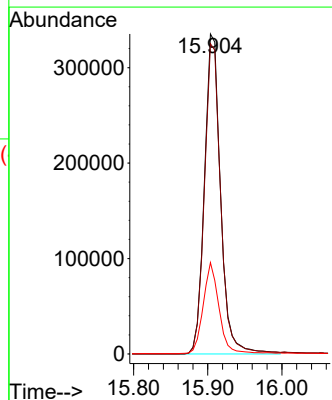
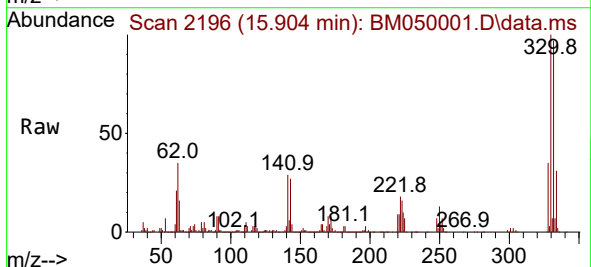
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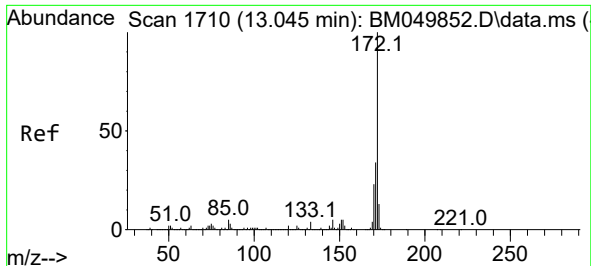
Tgt Ion:164 Resp: 628616  
Ion Ratio Lower Upper  
164 100  
162 99.3 79.4 119.0  
160 44.4 36.2 54.2



#42  
2,4,6-Tribromophenol  
Concen: 55.637 ng  
RT: 15.904 min Scan# 2196  
Delta R.T. -0.006 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion:330 Resp: 508718  
Ion Ratio Lower Upper  
330 100  
332 98.4 78.0 117.0  
141 28.1 23.5 35.3

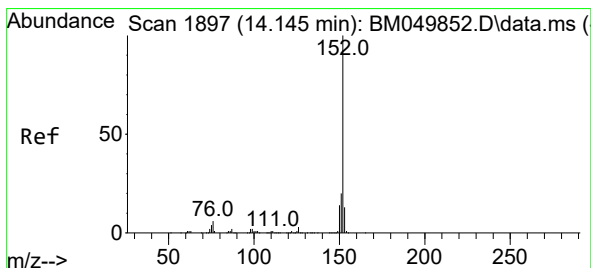
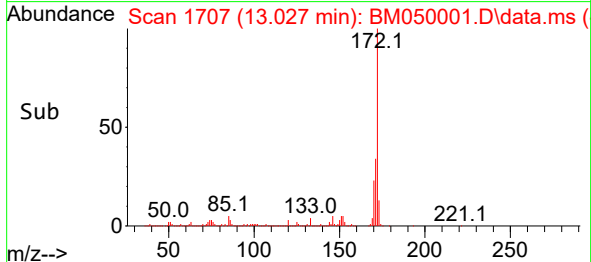
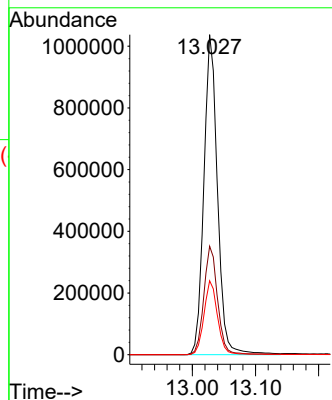
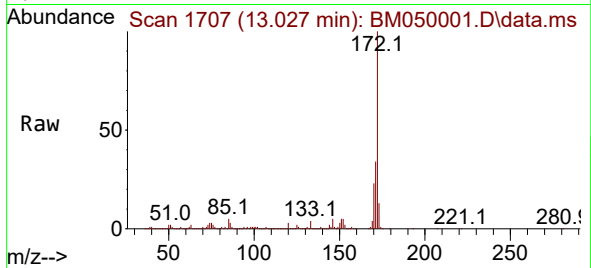




#45  
2-Fluorobiphenyl  
Concen: 33.508 ng  
RT: 13.027 min Scan# 1707  
Delta R.T. -0.018 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

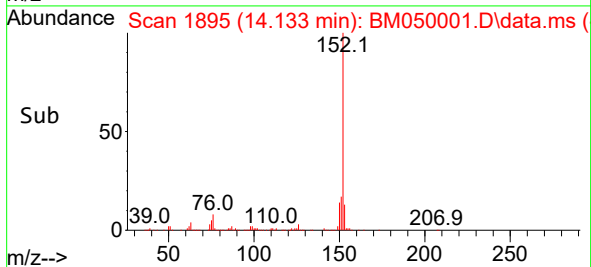
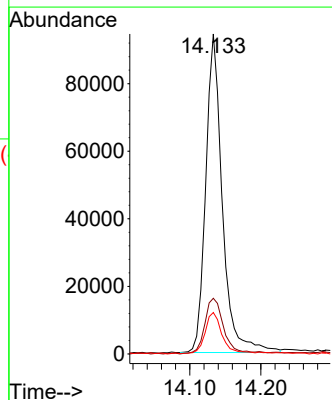
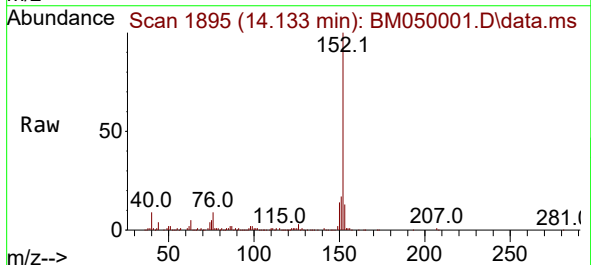
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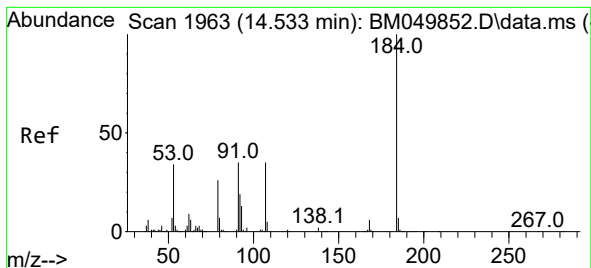
Tgt Ion:172 Resp: 1553346  
Ion Ratio Lower Upper  
172 100  
171 33.9 27.4 41.2  
170 23.1 18.6 28.0



#49  
Acenaphthylene  
Concen: 2.872 ng  
RT: 14.133 min Scan# 1895  
Delta R.T. -0.012 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion:152 Resp: 153648  
Ion Ratio Lower Upper  
152 100  
151 17.4 15.7 23.5  
153 13.0 10.4 15.6

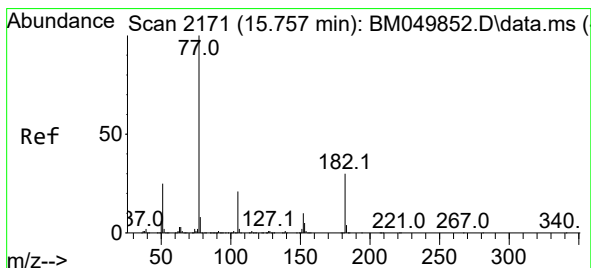
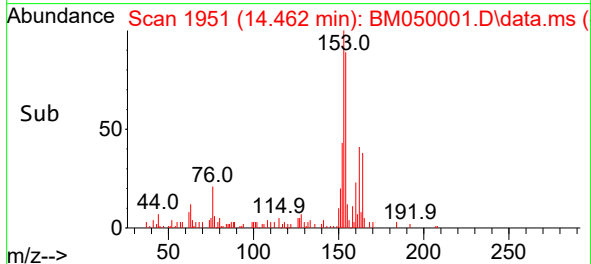
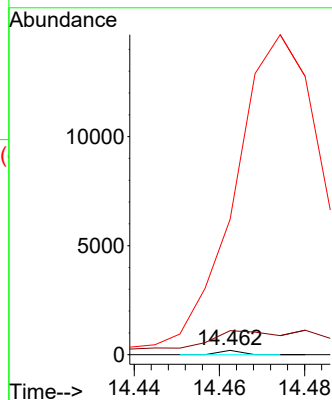
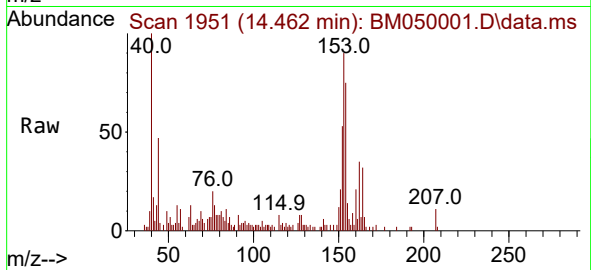




#54  
2,4-Dinitrophenol  
Concen: 7.234 ng  
RT: 14.462 min Scan# 1963  
Delta R.T. -0.071 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

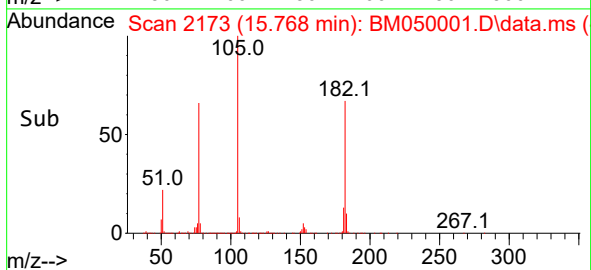
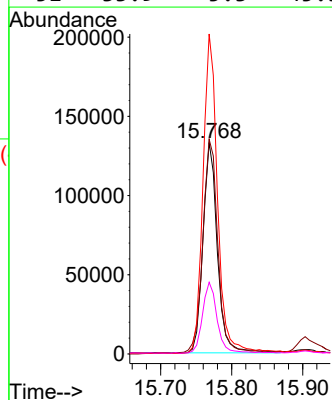
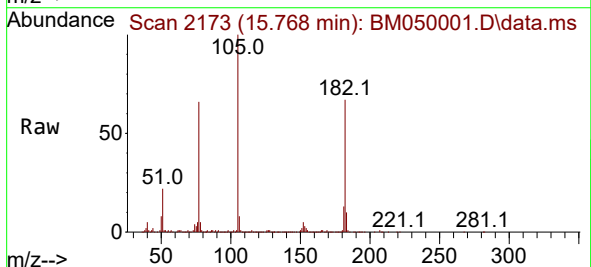
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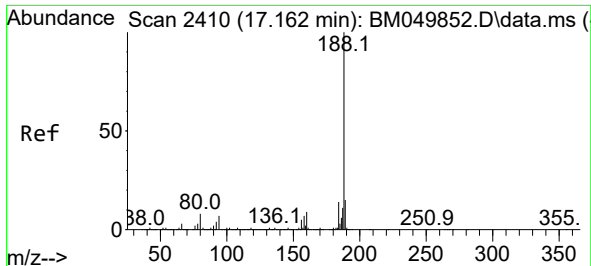
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Ion Ratio Lower Upper  
184 100  
63 554.8 38.4 57.6#  
154 3119.1 48.1 72.1#



#63  
Azobenzene  
Concen: 5.153 ng  
RT: 15.768 min Scan# 2173  
Delta R.T. 0.012 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion: 77 Resp: 187614  
Ion Ratio Lower Upper  
77 100  
182 101.6 10.4 50.4#  
105 151.4 1.5 41.5#  
51 33.9 5.3 45.3

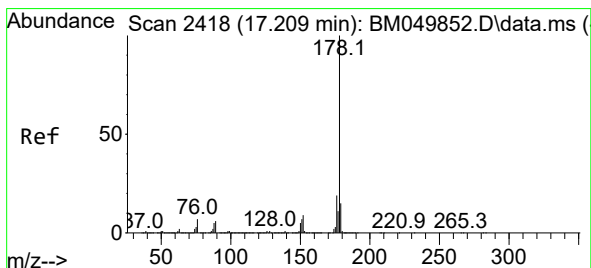
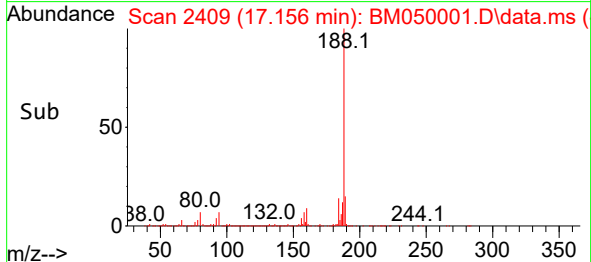
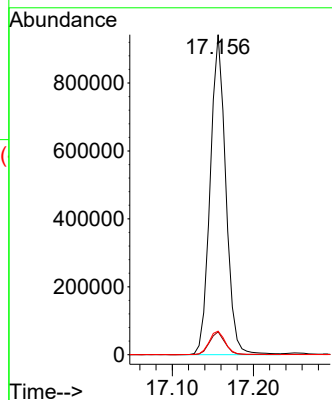
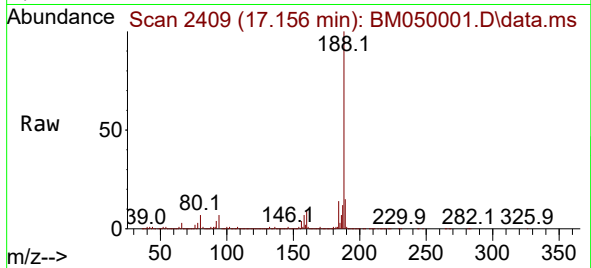




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.156 min Scan# 2410  
Delta R.T. -0.006 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

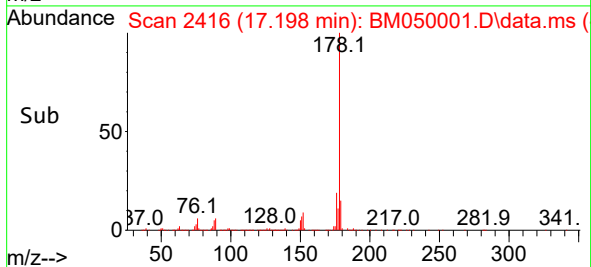
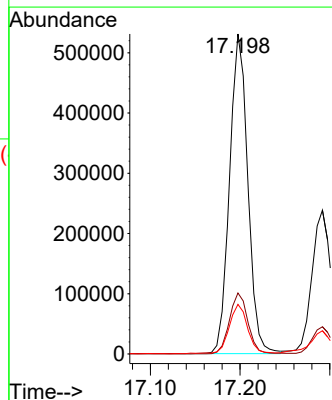
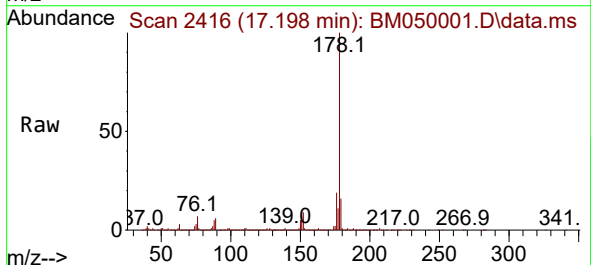
Instrument :  
BNA\_M  
ClientSampleId :  
VNJ-231

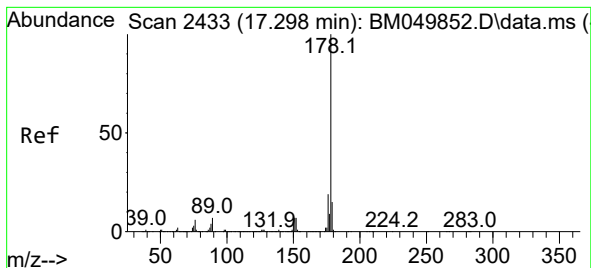
Tgt Ion:188 Resp: 1256519  
Ion Ratio Lower Upper  
188 100  
94 7.1 5.8 8.6  
80 7.3 6.4 9.6



#71  
Phenanthrene  
Concen: 10.889 ng  
RT: 17.198 min Scan# 2416  
Delta R.T. -0.012 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion:178 Resp: 750108  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.2  
179 15.5 12.3 18.5





#72

Anthracene

Concen: 5.095 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

Instrument :

BNA\_M

ClientSampleId :

VNJ-231

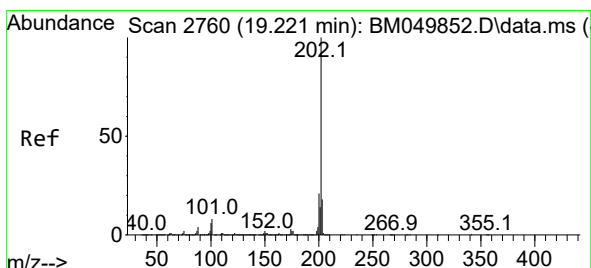
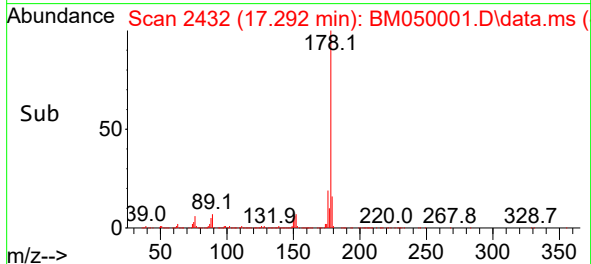
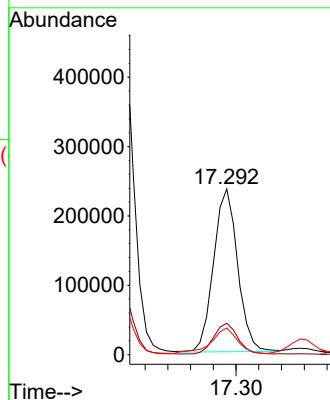
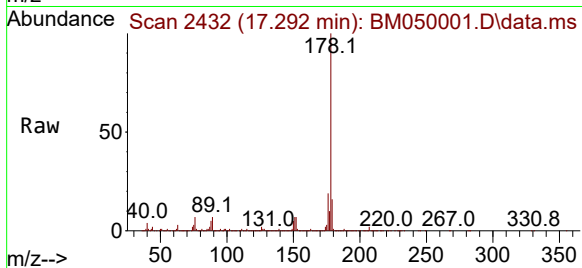
Tgt Ion:178 Resp: 345889

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 16.1 12.4 18.6



#75

Fluoranthene

Concen: 35.310 ng

RT: 19.221 min Scan# 2760

Delta R.T. -0.000 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

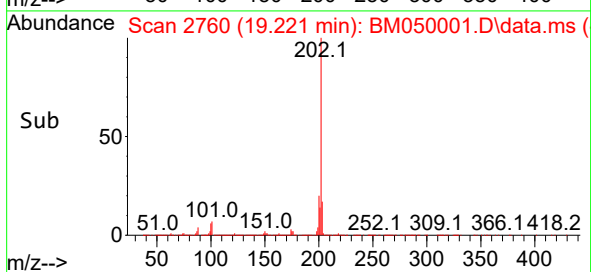
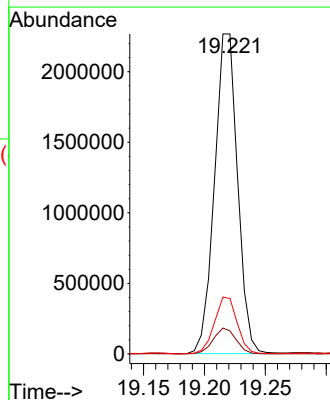
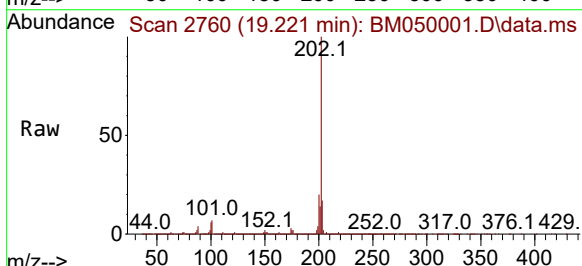
Tgt Ion:202 Resp: 2990794

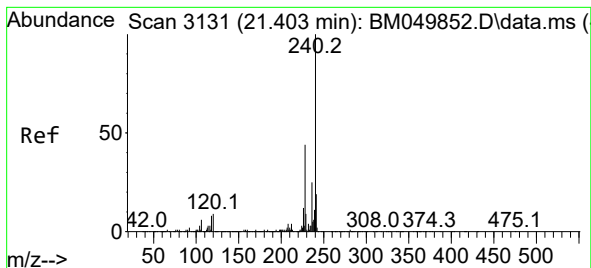
Ion Ratio Lower Upper

202 100

101 7.2 0.0 28.4

203 17.3 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.397 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

Instrument :

BNA\_M

ClientSampleId :

VNJ-231

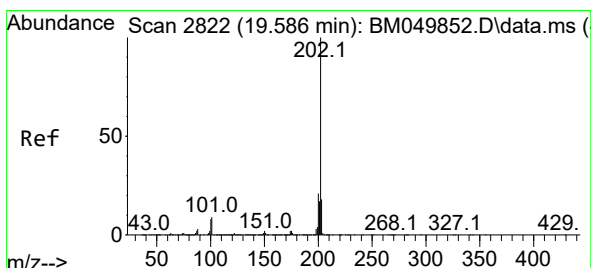
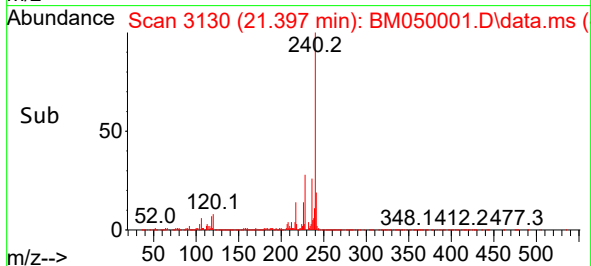
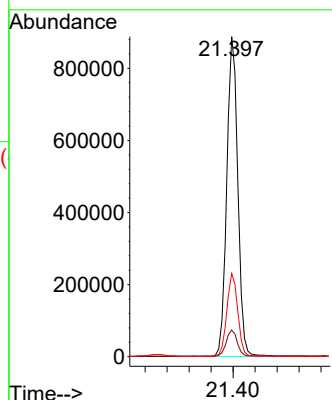
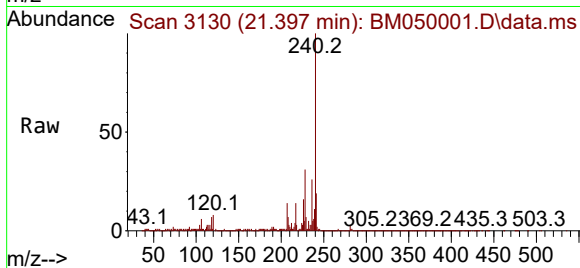
Tgt Ion:240 Resp: 1233964

Ion Ratio Lower Upper

240 100

120 8.3 6.9 10.3

236 26.0 20.4 30.6



#78

Pyrene

Concen: 31.035 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

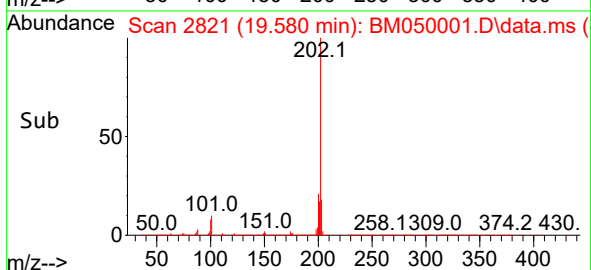
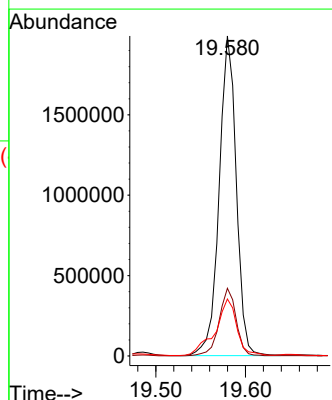
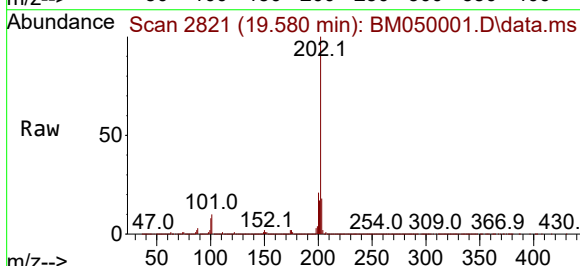
Tgt Ion:202 Resp: 2639296

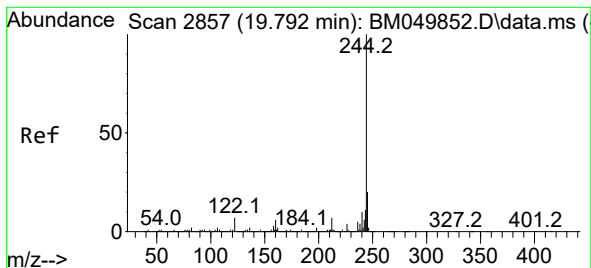
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 17.8 14.0 21.0





#79

Terphenyl-d14

Concen: 34.773 ng

RT: 19.780 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

Instrument :

BNA\_M

ClientSampleId :

VNJ-231

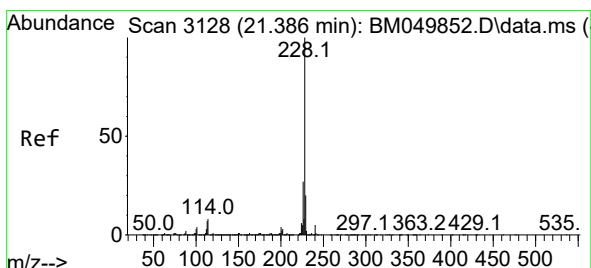
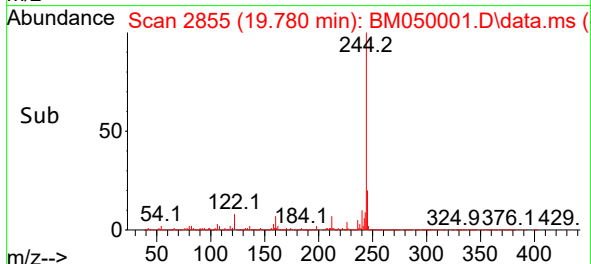
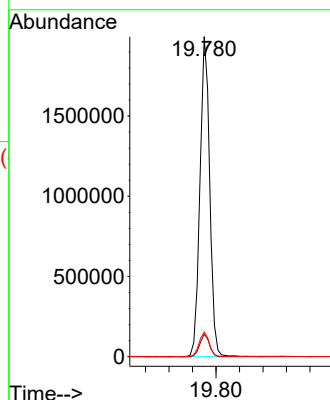
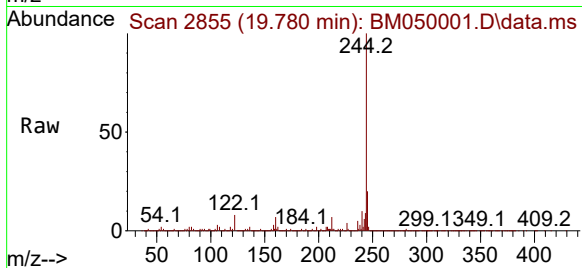
Tgt Ion:244 Resp: 2289627

Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 7.7 5.4 8.0



#81

Benzo(a)anthracene

Concen: 19.681 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

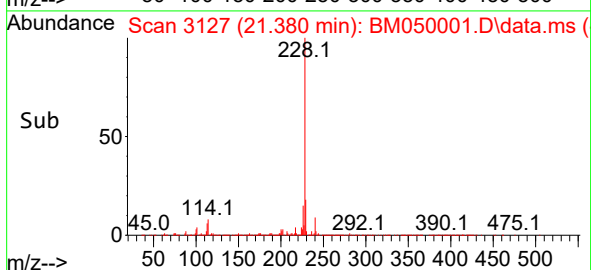
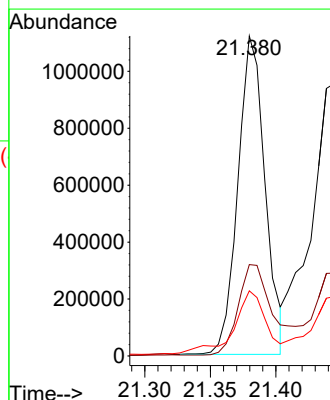
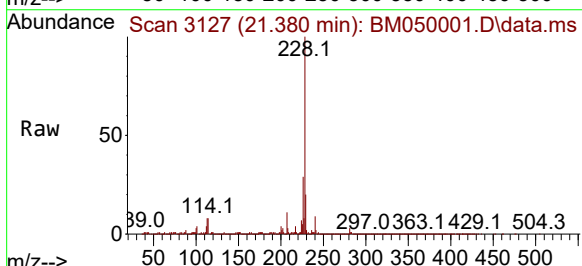
Tgt Ion:228 Resp: 1614045

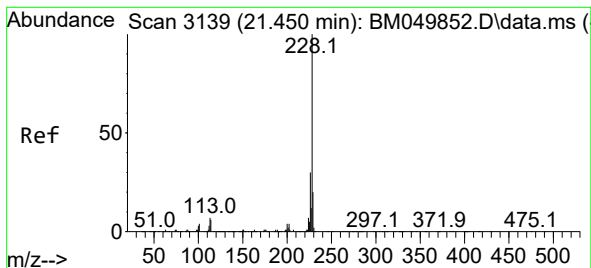
Ion Ratio Lower Upper

228 100

226 28.6 21.8 32.8

229 20.3 15.8 23.8





#83

Chrysene

Concen: 22.183 ng

RT: 21.444 min Scan# 3139

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

Instrument :

BNA\_M

ClientSampleId :

VNJ-231

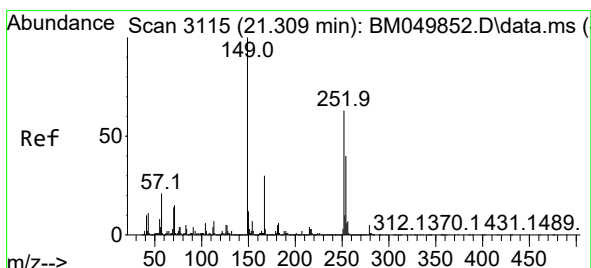
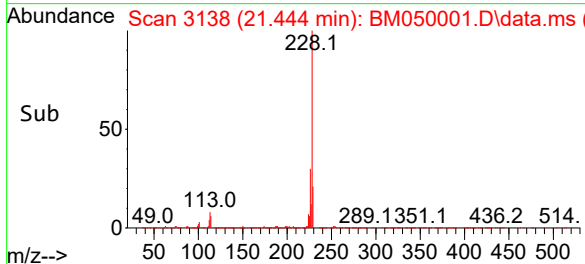
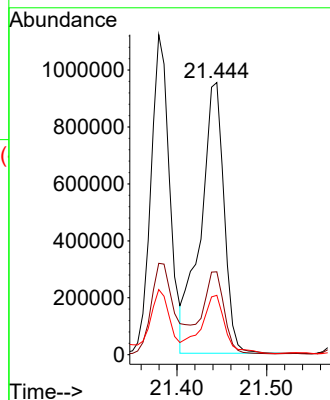
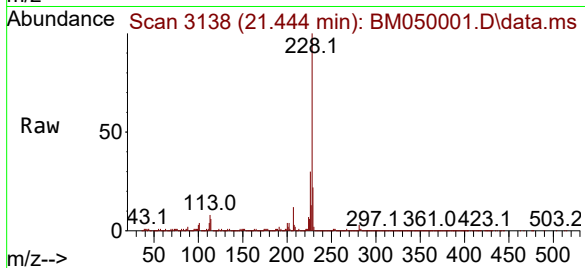
Tgt Ion:228 Resp: 1729505

Ion Ratio Lower Upper

228 100

226 30.4 24.1 36.1

229 21.8 15.8 23.6



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.098 ng

RT: 21.297 min Scan# 3113

Delta R.T. -0.012 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

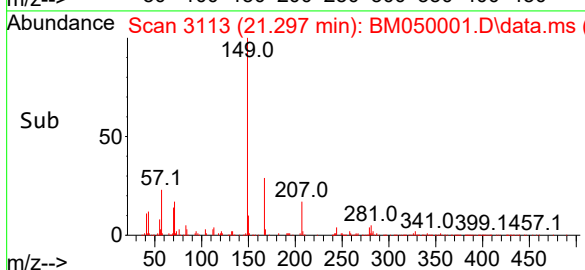
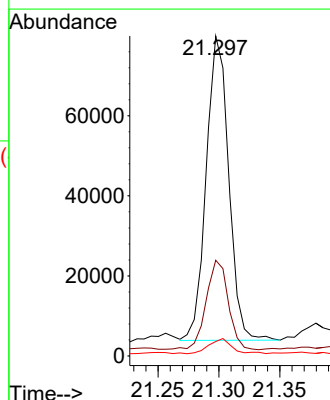
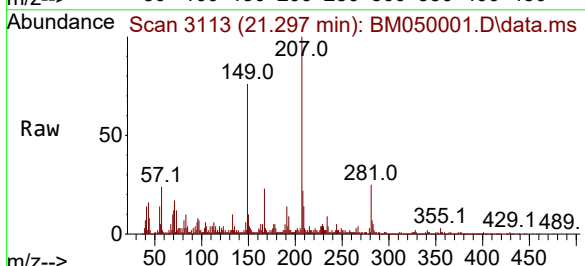
Tgt Ion:149 Resp: 97691

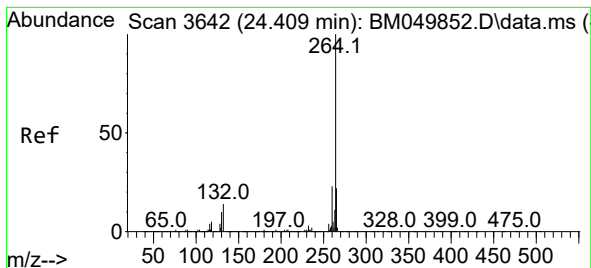
Ion Ratio Lower Upper

149 100

167 29.9 23.8 35.6

279 4.5 3.8 5.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

Instrument :

BNA\_M

ClientSampleId :

VNJ-231

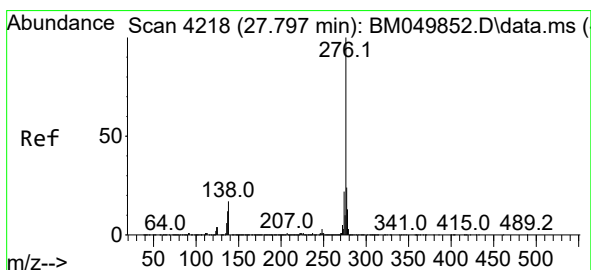
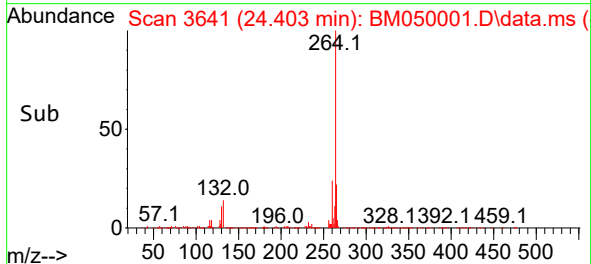
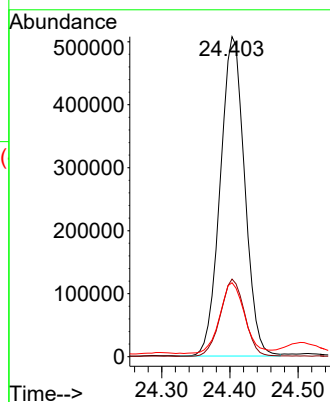
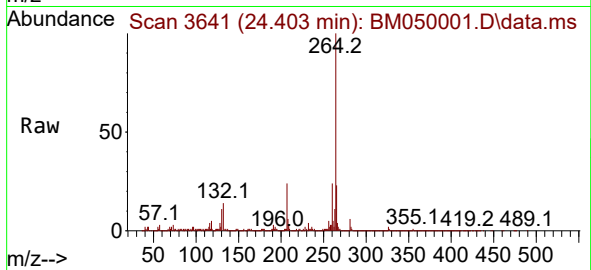
Tgt Ion:264 Resp: 1265403

Ion Ratio Lower Upper

264 100

260 24.2 18.6 28.0

265 23.1 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.715 ng

RT: 27.791 min Scan# 4217

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

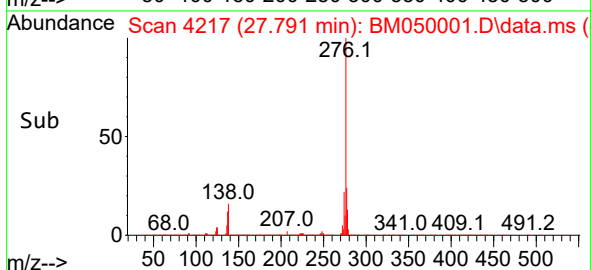
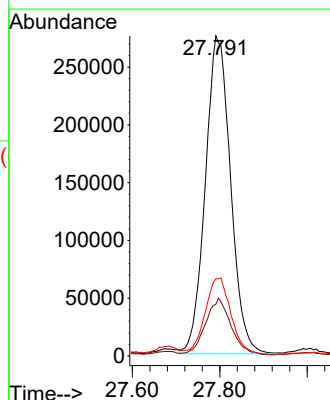
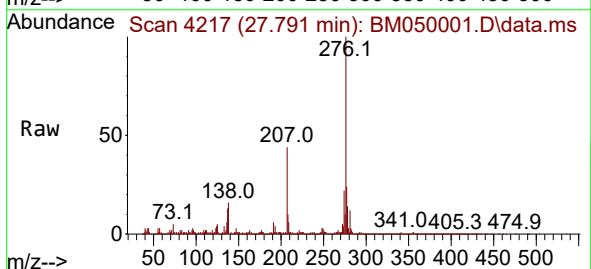
Tgt Ion:276 Resp: 1105015

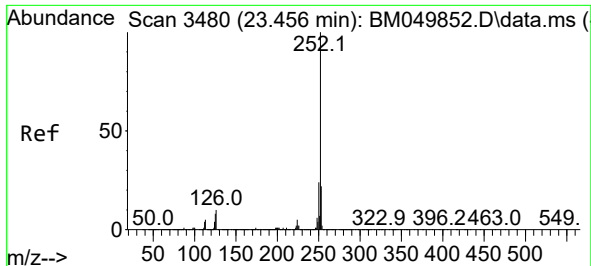
Ion Ratio Lower Upper

276 100

138 18.0 16.8 25.2

277 24.7 20.1 30.1

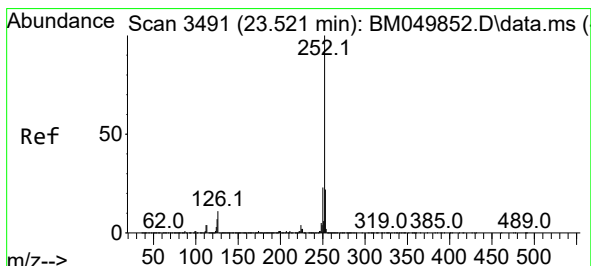
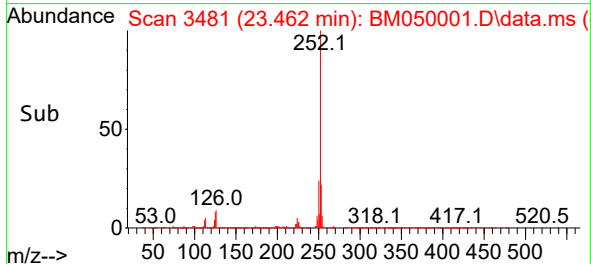
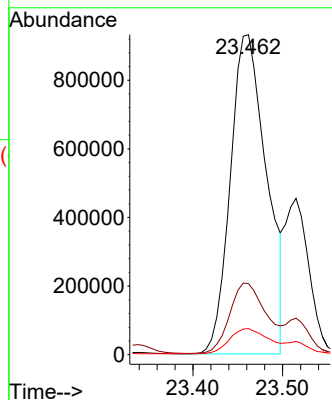
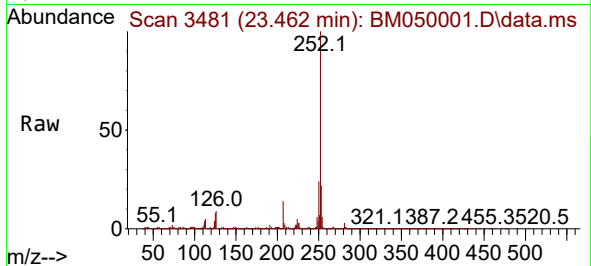




#88  
Benzo(b)fluoranthene  
Concen: 32.352 ng  
RT: 23.462 min Scan# 3480  
Delta R.T. 0.006 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

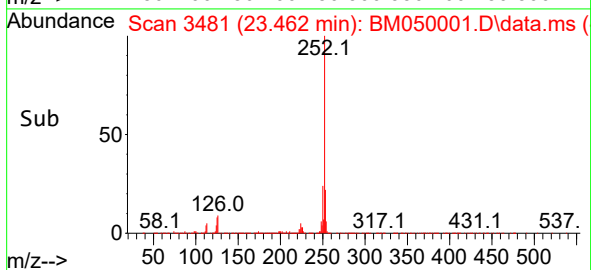
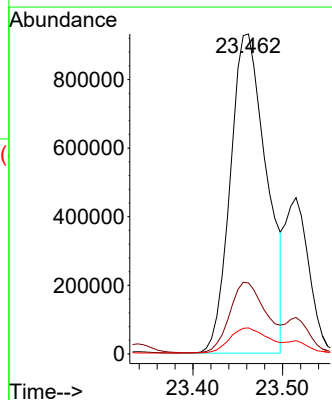
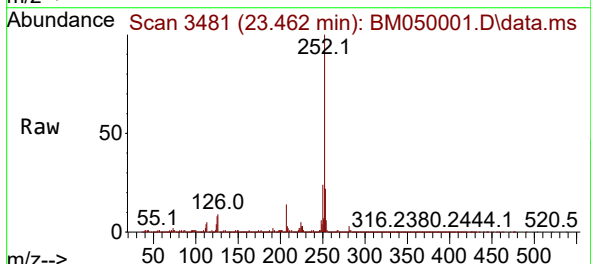
Instrument :  
BNA\_M  
ClientSampleId :  
VNJ-231

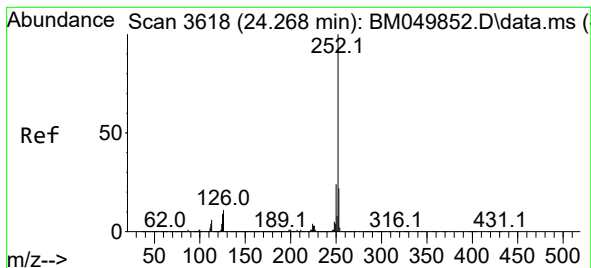
Tgt Ion:252 Resp: 2614535  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.5 26.3  
125 8.1 6.2 9.4



#89  
Benzo(k)fluoranthene  
Concen: 33.384 ng  
RT: 23.462 min Scan# 3481  
Delta R.T. -0.059 min  
Lab File: BM050001.D  
Acq: 22 Apr 2025 18:26

Tgt Ion:252 Resp: 2614535  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.4 26.2  
125 8.1 5.8 8.8





#90

Benzo(a)pyrene

Concen: 22.394 ng

RT: 24.262 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

Instrument :

BNA\_M

ClientSampleId :

VNJ-231

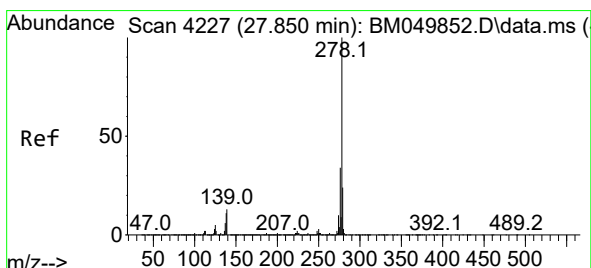
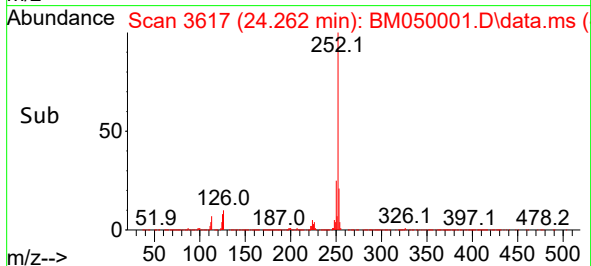
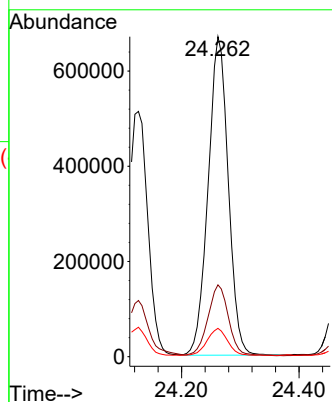
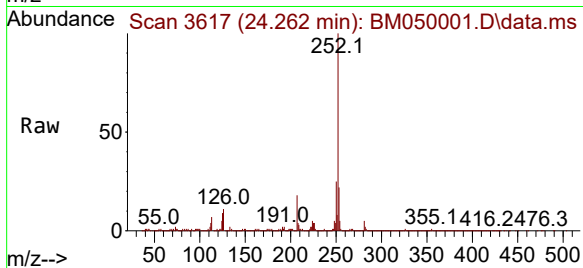
Tgt Ion:252 Resp: 1590330

Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 8.9 7.0 10.4



#91

Dibenzo(a,h)anthracene

Concen: 3.767 ng

RT: 27.826 min Scan# 4223

Delta R.T. -0.024 min

Lab File: BM050001.D

Acq: 22 Apr 2025 18:26

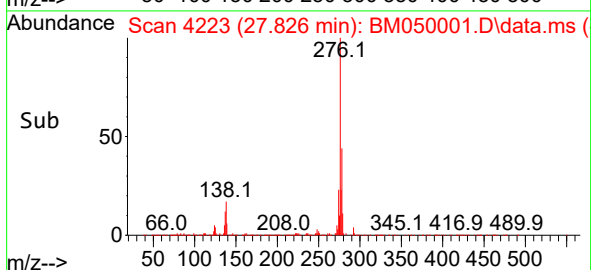
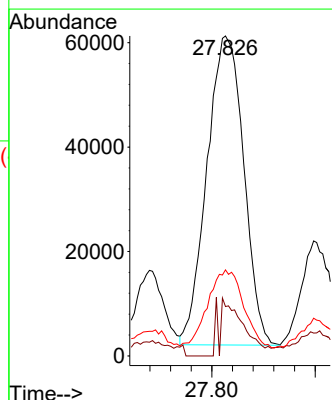
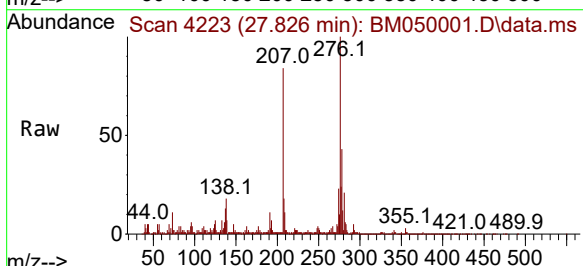
Tgt Ion:278 Resp: 292686

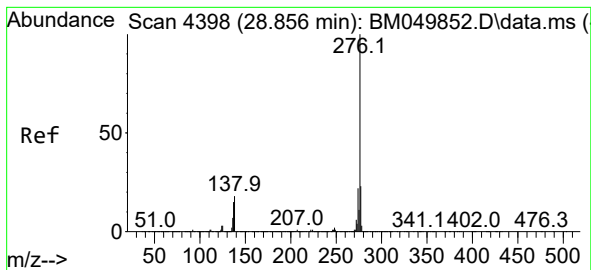
Ion Ratio Lower Upper

278 100

139 15.4 10.6 15.8

279 26.9 19.1 28.7





#92

Benzo(g,h,i)perylene

Concen: 13.105 ng

RT: 28.850 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM050001.D

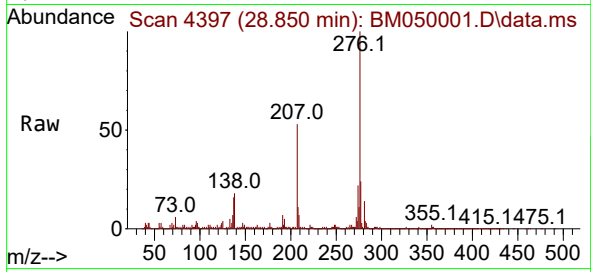
Acq: 22 Apr 2025 18:26

Instrument :

BNA\_M

ClientSampleId :

VNJ-231



Tgt Ion:276 Resp: 1040455

Ion Ratio Lower Upper

276 100

277 23.8 18.7 28.1

138 17.8 14.6 21.8

