

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM082724\  
 Data File : BM047370.D  
 Acq On : 27 Aug 2024 19:19  
 Operator : RC/JU  
 Sample : P3735-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 WC-11

Quant Time: Aug 28 02:31:20 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM082624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 26 18:11:40 2024  
 Response via : Initial Calibration

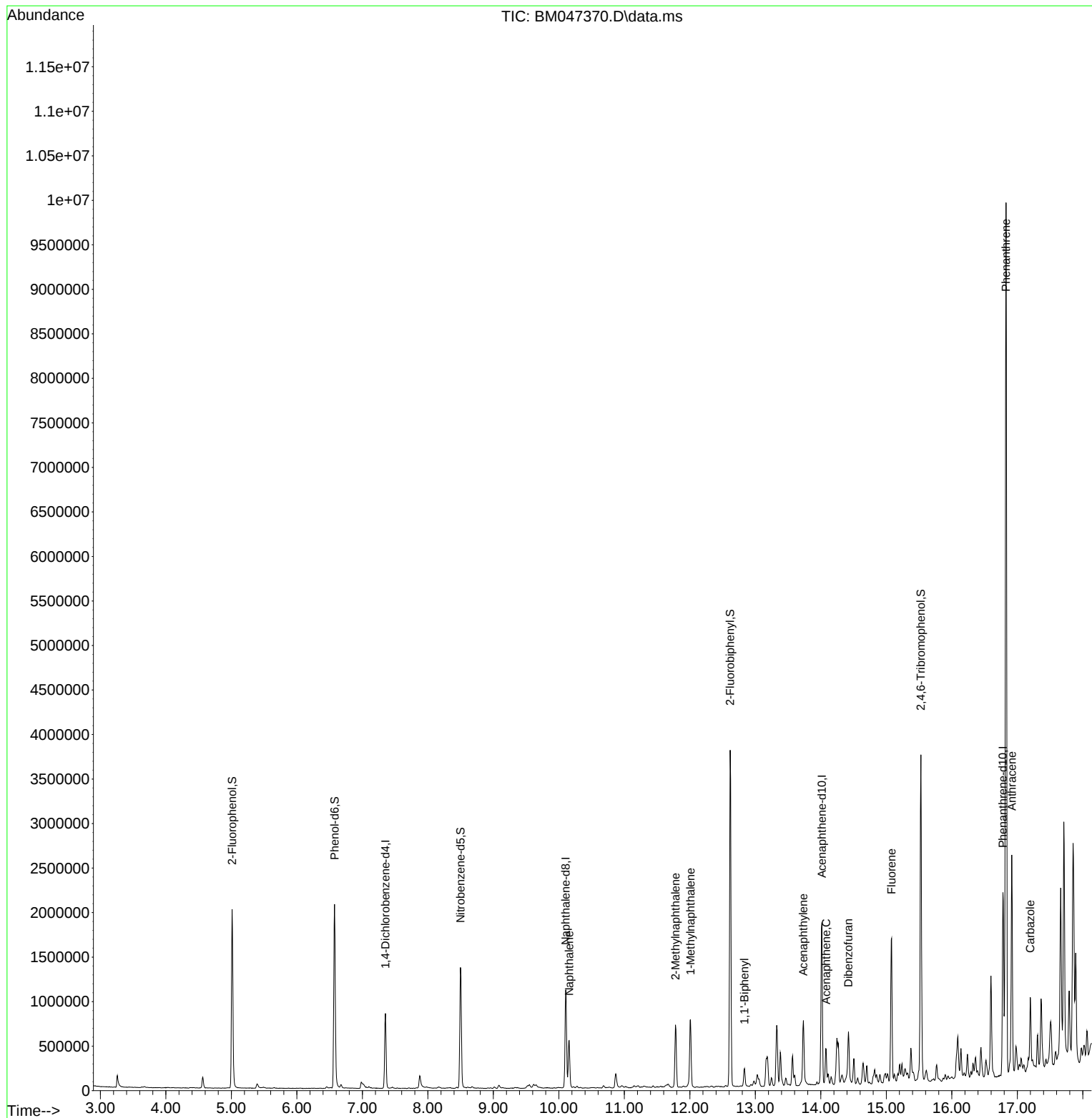
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.351  | 152  | 236976   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.104 | 136  | 923768   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.016 | 164  | 640251   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 16.780 | 188  | 1298500  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.027 | 240  | 824570   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.733 | 264  | 957123   | 20.000 | ng    | 0.02     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.010  | 112  | 938307   | 75.965 | ng    | 0.00     |
| 7) Phenol-d6                | 6.575  | 99   | 1273737  | 75.699 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.498  | 82   | 828730   | 49.777 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.527 | 330  | 621809   | 80.498 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.616 | 172  | 2043819  | 49.048 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.451 | 244  | 2535754  | 54.738 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 10.157 | 128  | 434828   | 9.637  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 11.780 | 142  | 340735   | 10.357 | ng    | 100      |
| 38) 1-Methylnaphthalene     | 12.010 | 142  | 367910   | 11.308 | ng    | 99       |
| 46) 1,1'-Biphenyl           | 12.833 | 154  | 102496   | 2.293  | ng    | 99       |
| 49) Acenaphthylene          | 13.733 | 152  | 509481   | 10.006 | ng    | 98       |
| 52) Acenaphthene            | 14.080 | 154  | 149418   | 4.623  | ng    | 99       |
| 55) Dibenzofuran            | 14.421 | 168  | 276504   | 5.311  | ng    | # 94     |
| 58) Fluorene                | 15.080 | 166  | 748406   | 17.762 | ng    | 100      |
| 71) Phenanthrene            | 16.827 | 178  | 5881717  | 93.270 | ng    | 99       |
| 72) Anthracene              | 16.915 | 178  | 1485231  | 24.160 | ng    | 100      |
| 73) Carbazole               | 17.198 | 167  | 503360   | 8.533  | ng    | 99       |
| 75) Fluoranthene            | 18.868 | 202  | 4698066  | 63.449 | ng    | 99       |
| 78) Pyrene                  | 19.233 | 202  | 4350317  | 68.788 | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.009 | 228  | 2028634  | 37.726 | ng    | 97       |
| 83) Chrysene                | 21.068 | 228  | 1820807  | 35.997 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.744 | 276  | 875302   | 14.609 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 22.892 | 252  | 1923250  | 34.442 | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 22.939 | 252  | 628362m  | 11.870 | ng    |          |
| 90) Benzo(a)pyrene          | 23.609 | 252  | 1583534  | 32.792 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 26.774 | 278  | 286662   | 5.906  | ng    | # 84     |
| 92) Benzo(g,h,i)perylene    | 27.685 | 276  | 865873   | 17.159 | ng    | 99       |
| -----                       |        |      |          |        |       |          |

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

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Instrument :  
BNA\_M  
ClientSampleId :  
WC-11

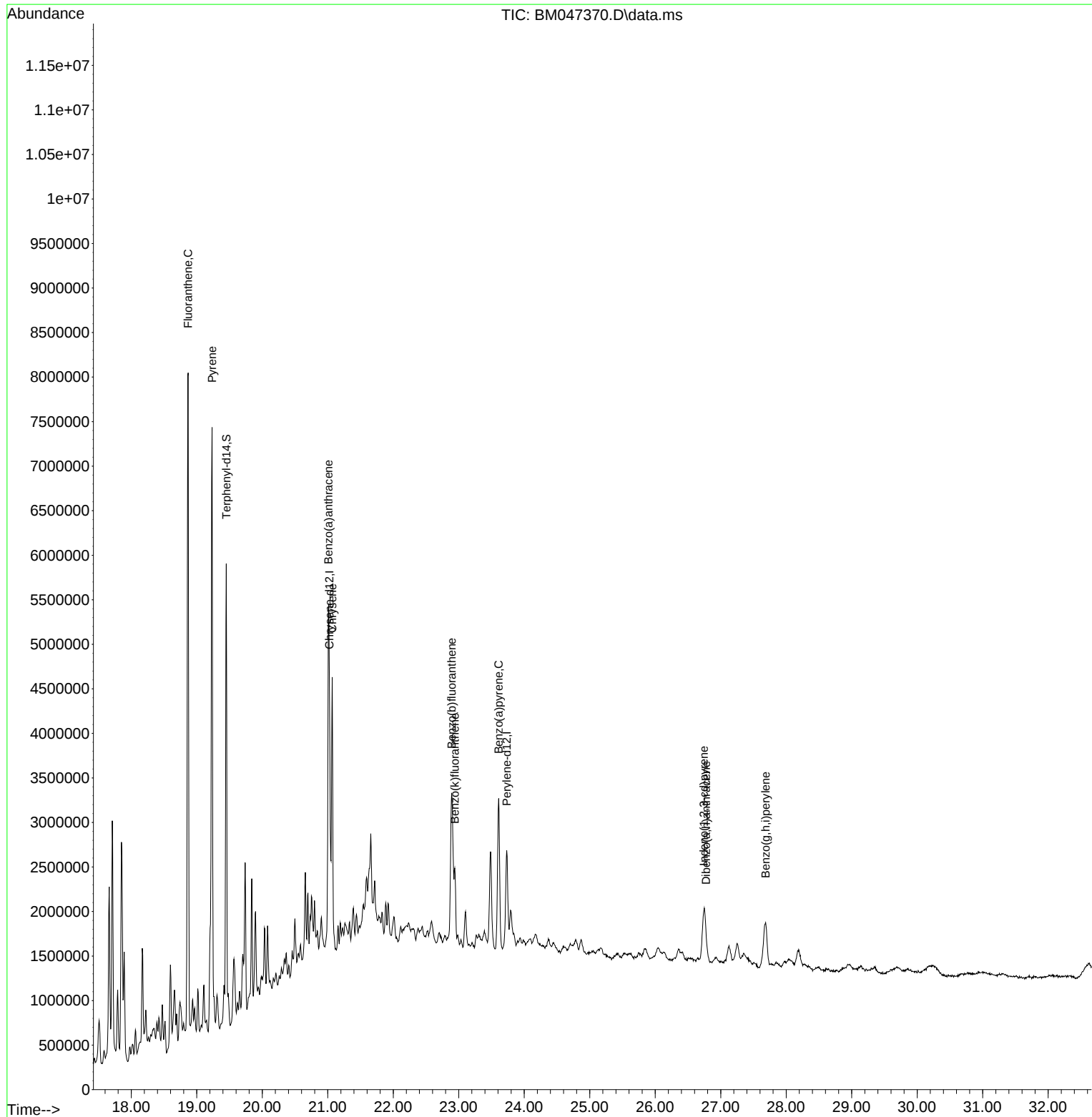
Quant Time: Aug 28 02:31:20 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM082624.M  
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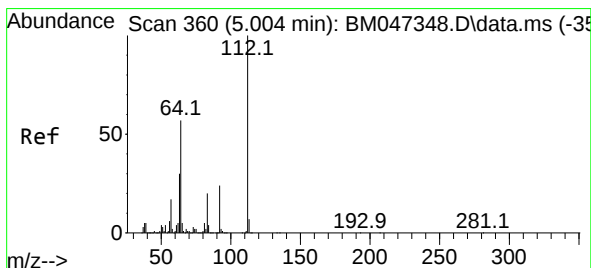
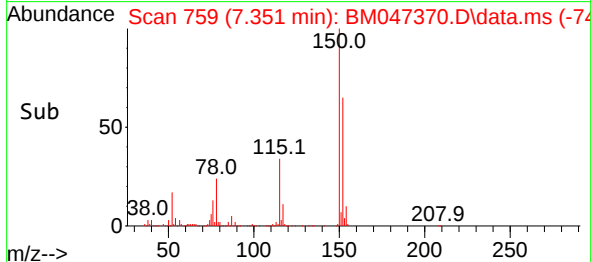
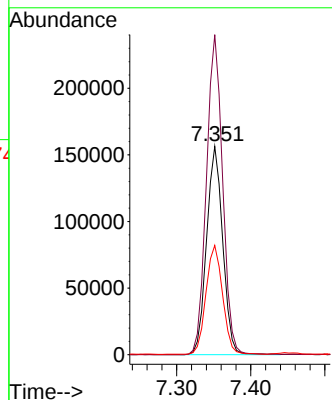
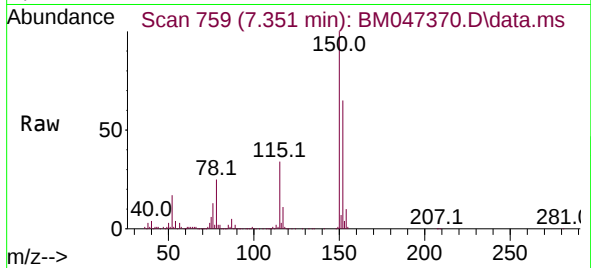




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.351 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

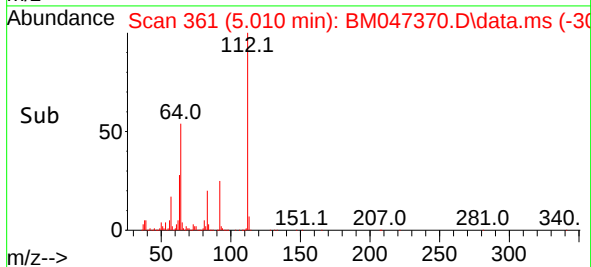
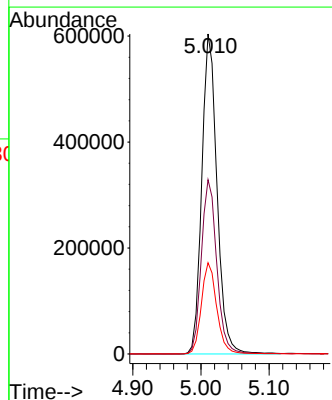
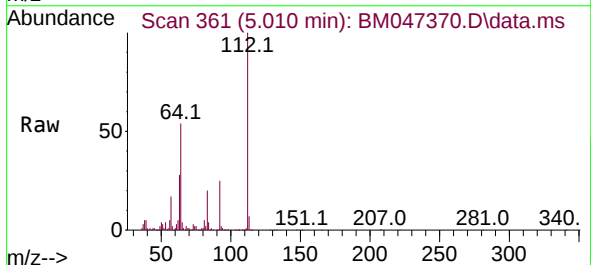
Instrument :  
BNA\_M  
ClientSampleId :  
WC-11

Tgt Ion:152 Resp: 236976  
Ion Ratio Lower Upper  
152 100  
150 153.6 121.3 181.9  
115 52.5 42.6 64.0



#5  
2-Fluorophenol  
Concen: 75.965 ng  
RT: 5.010 min Scan# 361  
Delta R.T. 0.006 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion:112 Resp: 938307  
Ion Ratio Lower Upper  
112 100  
64 54.5 45.7 68.5  
63 28.5 23.8 35.8

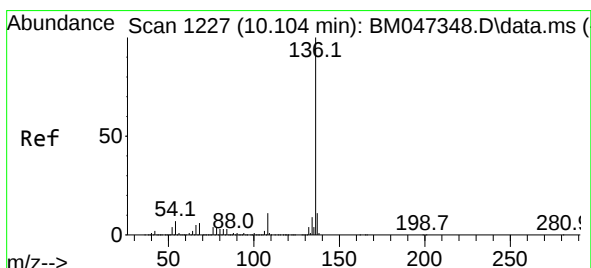
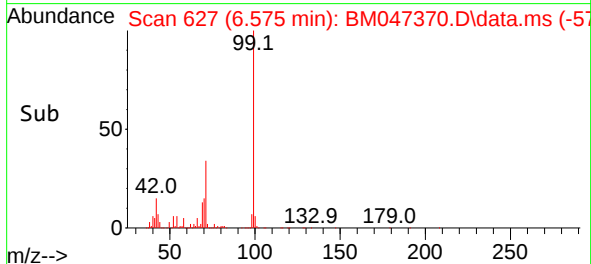
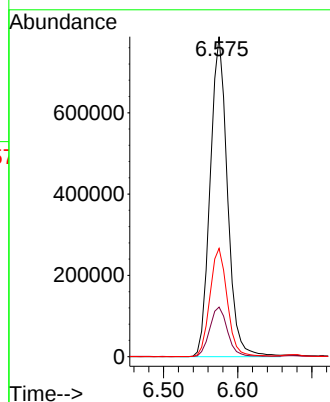
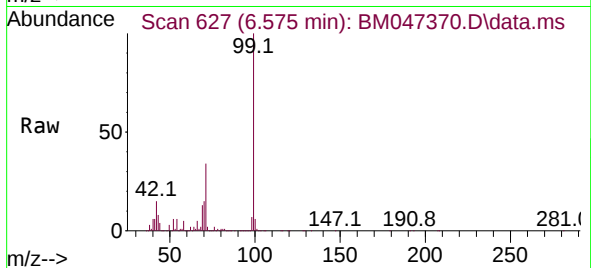




#7  
Phenol-d6  
Concen: 75.699 ng  
RT: 6.575 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

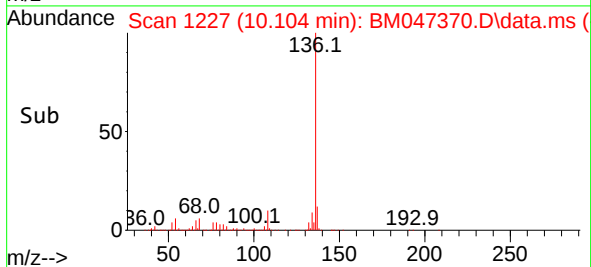
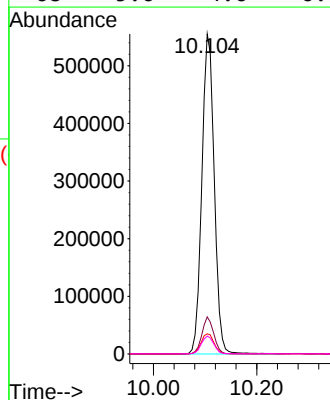
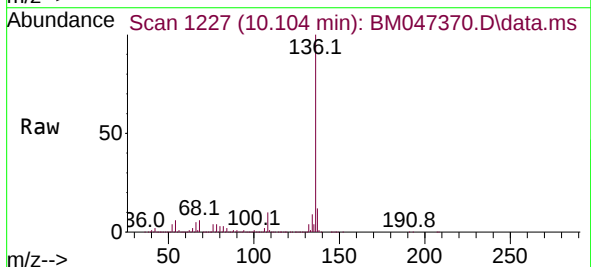
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ClientSampleId :  
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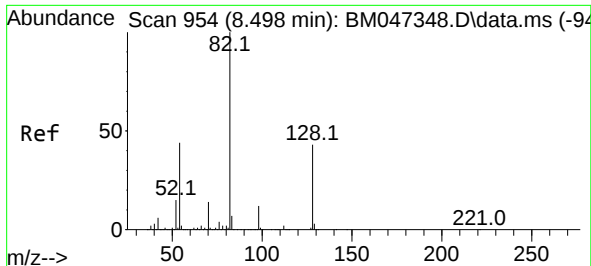
Tgt Ion: 99 Resp: 1273737  
Ion Ratio Lower Upper  
99 100  
42 15.5 13.0 19.4  
71 33.8 27.5 41.3



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.104 min Scan# 1227  
Delta R.T. 0.000 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion: 136 Resp: 923768  
Ion Ratio Lower Upper  
136 100  
137 11.6 8.8 13.2  
54 6.3 5.2 7.8  
68 5.6 4.6 6.8

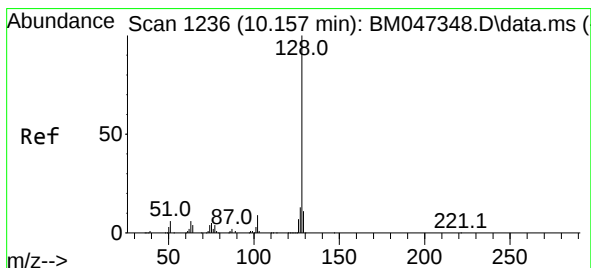
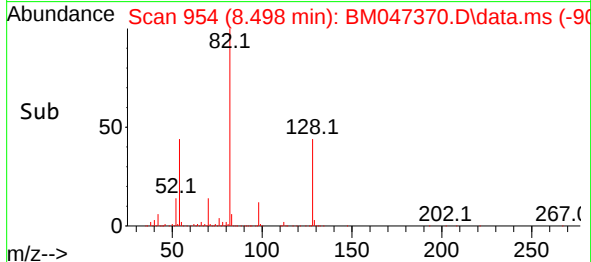
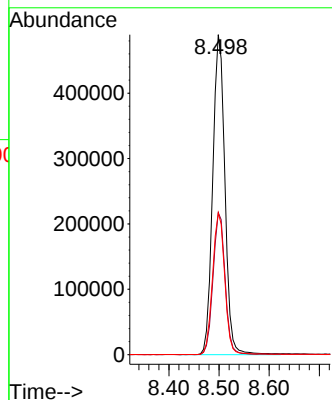
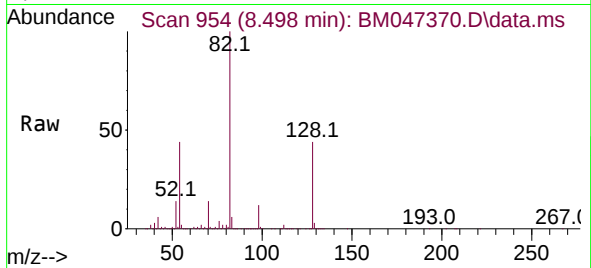




#23  
Nitrobenzene-d5  
Concen: 49.777 ng  
RT: 8.498 min Scan# 954  
Delta R.T. 0.000 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

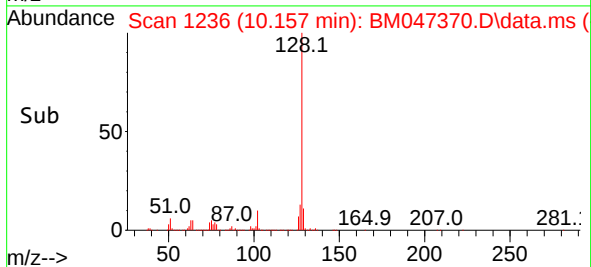
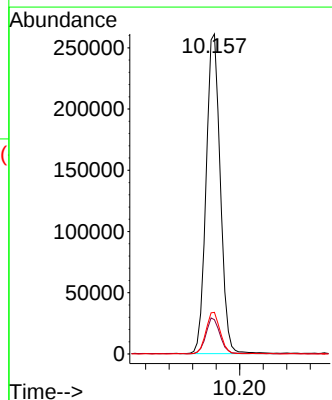
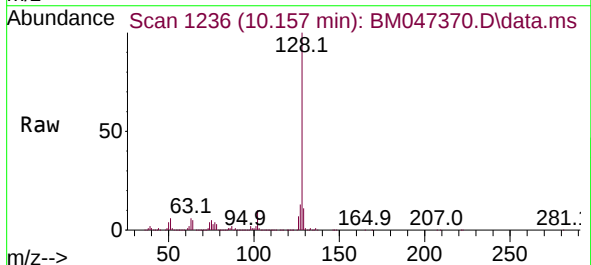
Instrument :  
BNA\_M  
ClientSampleId :  
WC-11

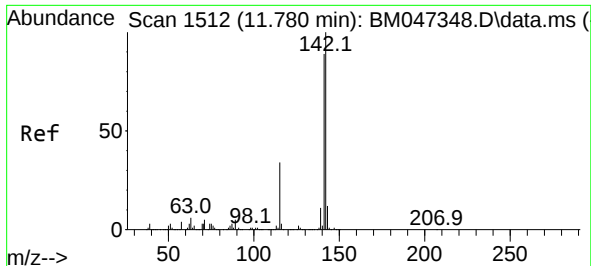
Tgt Ion: 82 Resp: 828730  
Ion Ratio Lower Upper  
82 100  
128 44.4 34.6 51.8  
54 44.3 35.5 53.3



#31  
Naphthalene  
Concen: 9.637 ng  
RT: 10.157 min Scan# 1236  
Delta R.T. 0.000 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion: 128 Resp: 434828  
Ion Ratio Lower Upper  
128 100  
129 10.7 9.0 13.6  
127 13.0 10.4 15.6

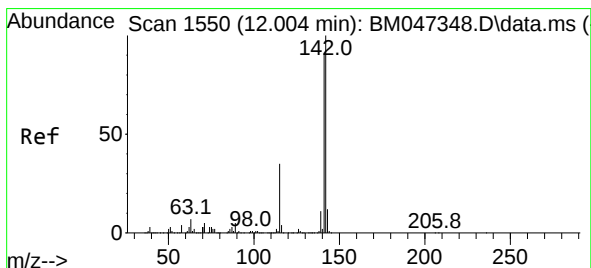
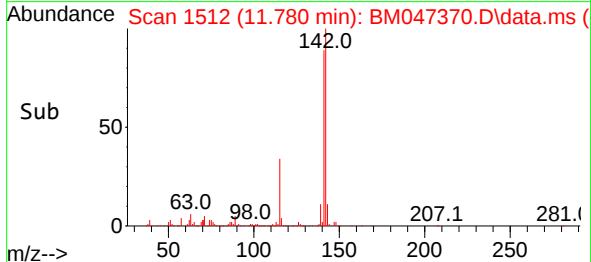
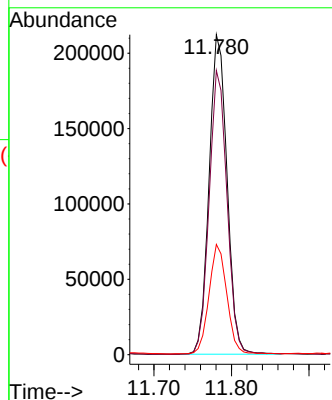
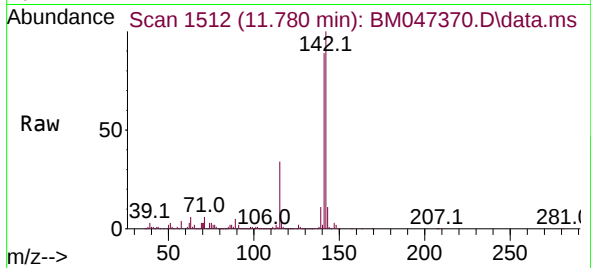




#37  
2-Methylnaphthalene  
Concen: 10.357 ng  
RT: 11.780 min Scan# 1512  
Delta R.T. 0.000 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

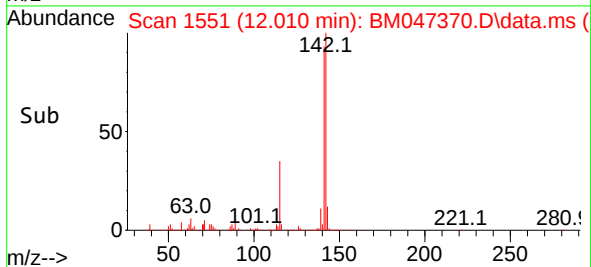
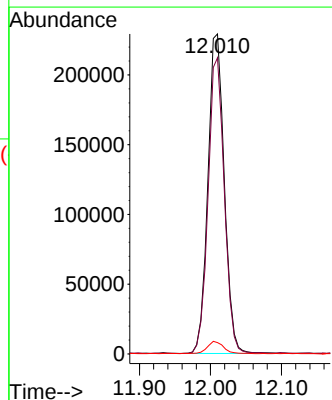
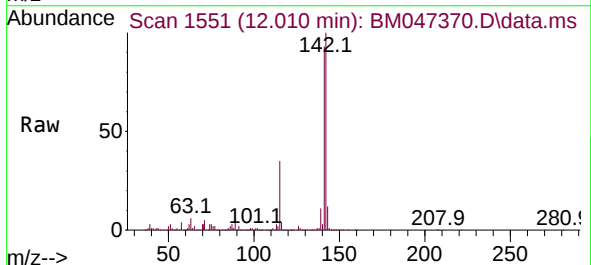
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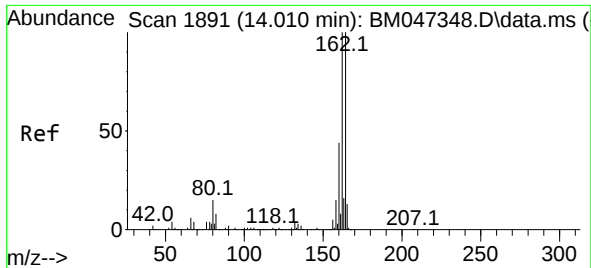
Tgt Ion:142 Resp: 340735  
Ion Ratio Lower Upper  
142 100  
141 88.8 70.8 106.2  
115 34.5 27.5 41.3



#38  
1-Methylnaphthalene  
Concen: 11.308 ng  
RT: 12.010 min Scan# 1551  
Delta R.T. 0.006 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion:142 Resp: 367910  
Ion Ratio Lower Upper  
142 100  
141 92.6 72.9 109.3  
116 3.6 3.0 4.6

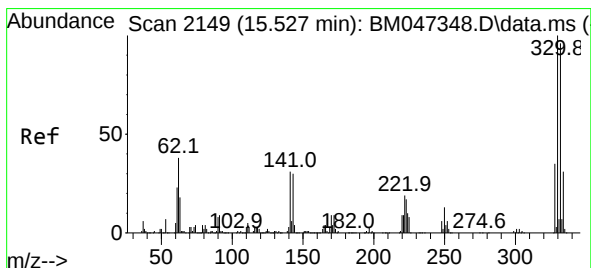
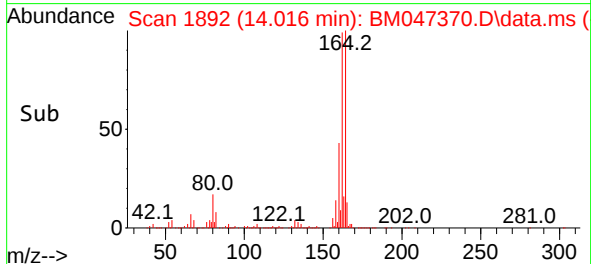
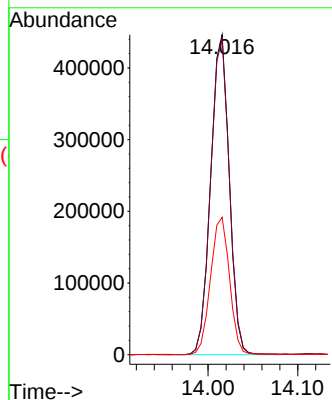
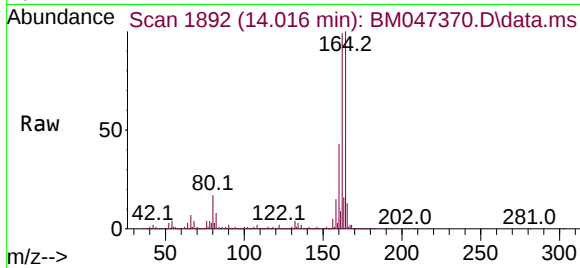




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.016 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

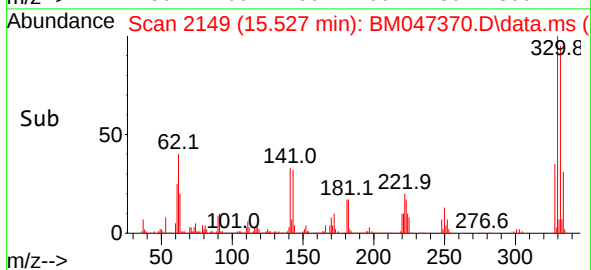
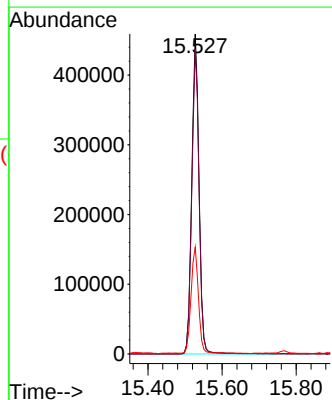
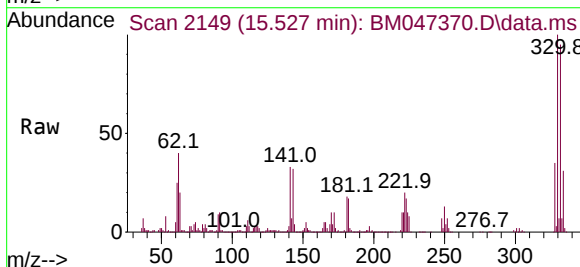
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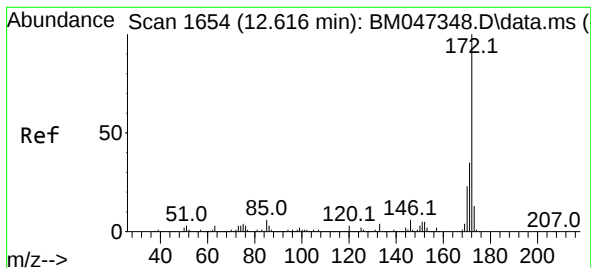
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Ion Ratio Lower Upper  
164 100  
162 98.9 79.7 119.5  
160 43.0 34.9 52.3



#42  
2,4,6-Tribromophenol  
Concen: 80.498 ng  
RT: 15.527 min Scan# 2149  
Delta R.T. 0.000 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion:330 Resp: 621809  
Ion Ratio Lower Upper  
330 100  
332 95.2 77.2 115.8  
141 33.5 27.6 41.4





#45

2-Fluorobiphenyl

Concen: 49.048 ng

RT: 12.616 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

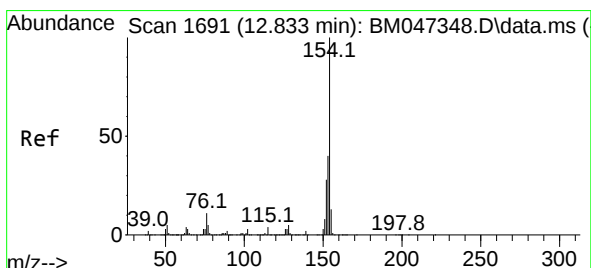
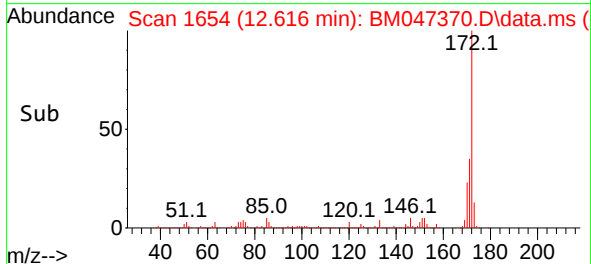
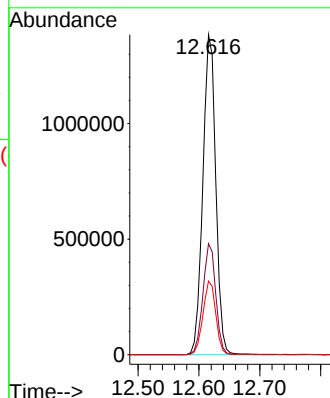
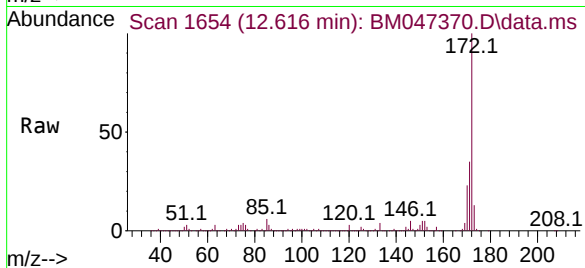
Tgt Ion:172 Resp: 2043819

Ion Ratio Lower Upper

172 100

171 34.7 27.8 41.6

170 23.0 18.5 27.7



#46

1,1'-Biphenyl

Concen: 2.293 ng

RT: 12.833 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

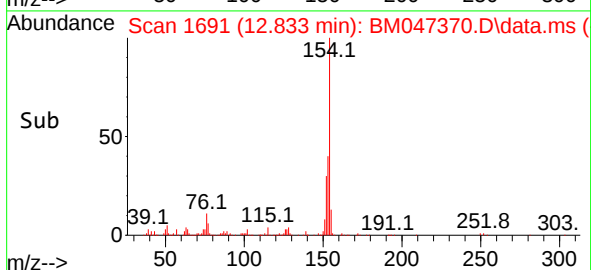
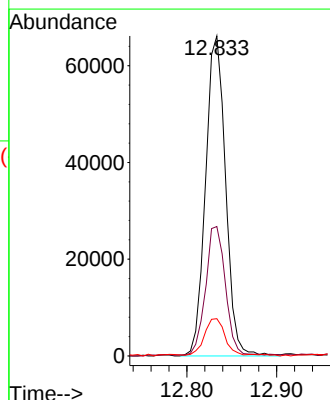
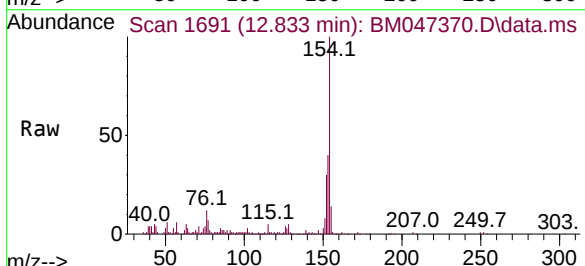
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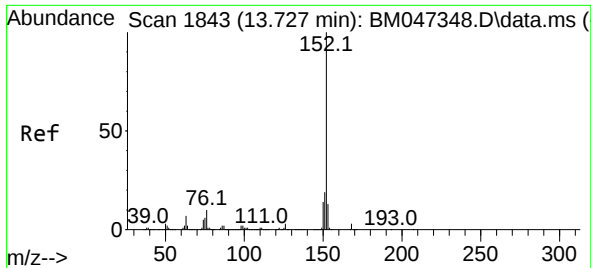
Ion Ratio Lower Upper

154 100

153 40.4 20.1 60.1

76 11.7 0.0 31.2

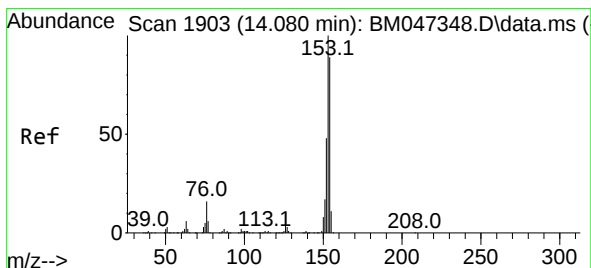
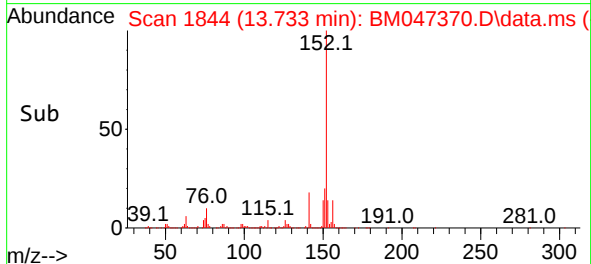
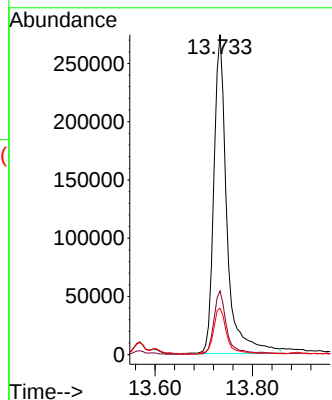
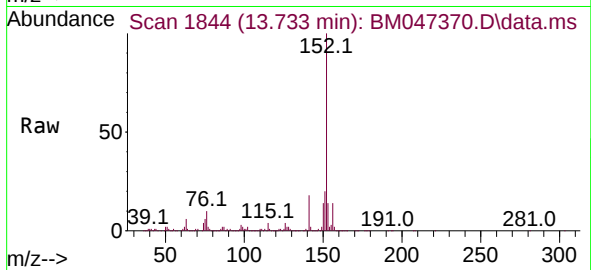




#49  
Acenaphthylene  
Concen: 10.006 ng  
RT: 13.733 min Scan# 1844  
Delta R.T. 0.006 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

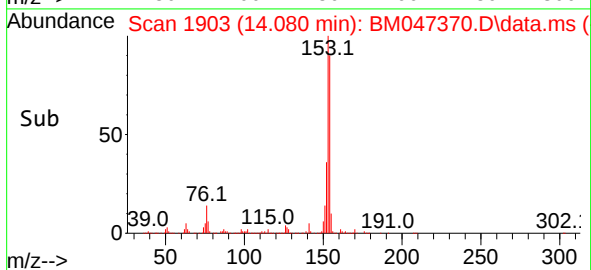
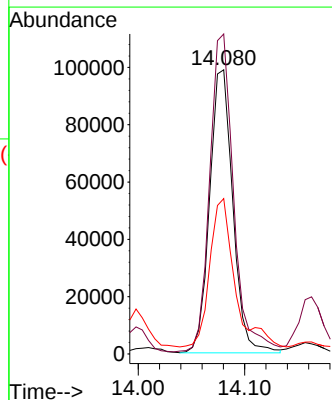
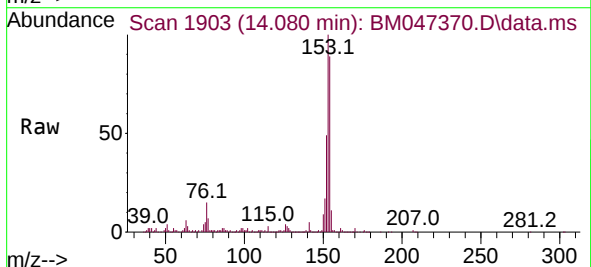
Instrument :  
BNA\_M  
ClientSampleId :  
WC-11

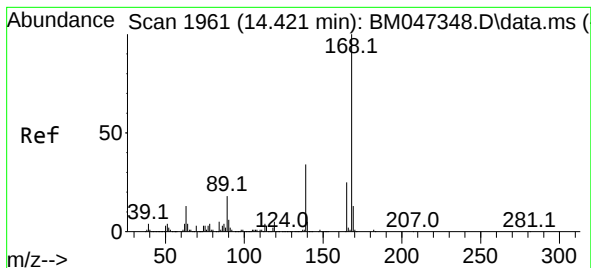
Tgt Ion:152 Resp: 509481  
Ion Ratio Lower Upper  
152 100  
151 19.9 15.4 23.0  
153 14.5 10.6 15.8



#52  
Acenaphthene  
Concen: 4.623 ng  
RT: 14.080 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion:154 Resp: 149418  
Ion Ratio Lower Upper  
154 100  
153 112.6 89.5 134.3  
152 54.7 43.0 64.4





#55

Dibenzenofuran

Concen: 5.311 ng

RT: 14.421 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

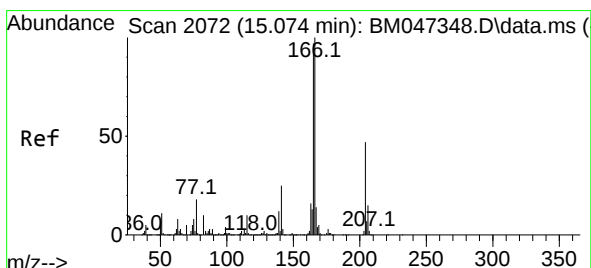
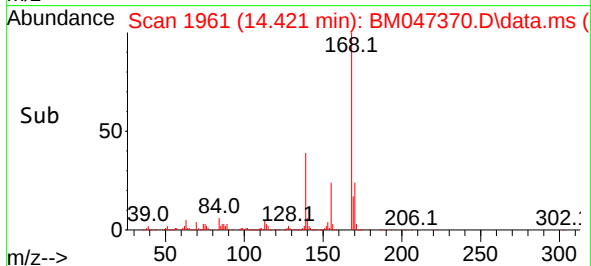
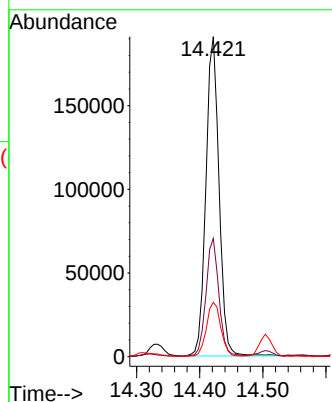
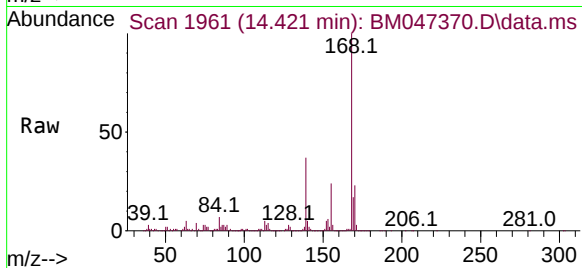
Tgt Ion:168 Resp: 276504

Ion Ratio Lower Upper

168 100

139 37.0 27.5 41.3

169 17.0 10.5 15.7#



#58

Fluorene

Concen: 17.762 ng

RT: 15.080 min Scan# 2073

Delta R.T. 0.006 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

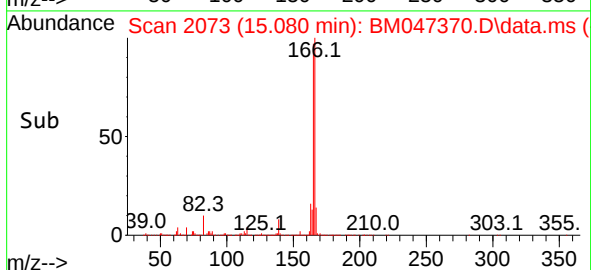
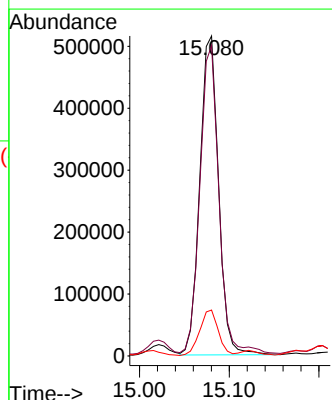
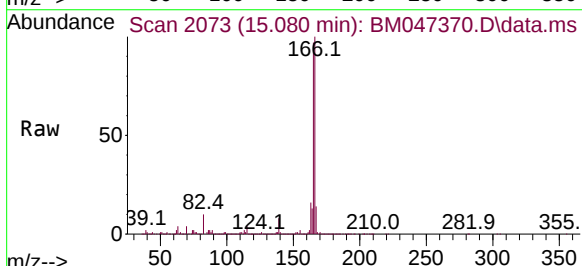
Tgt Ion:166 Resp: 748406

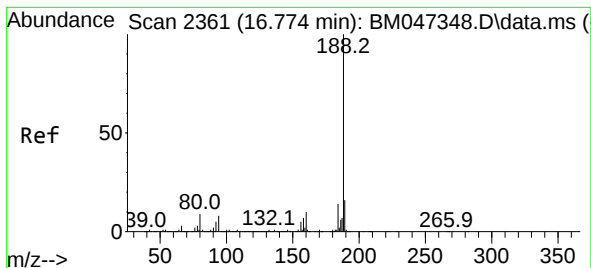
Ion Ratio Lower Upper

166 100

165 97.0 77.8 116.6

167 14.4 11.1 16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.780 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

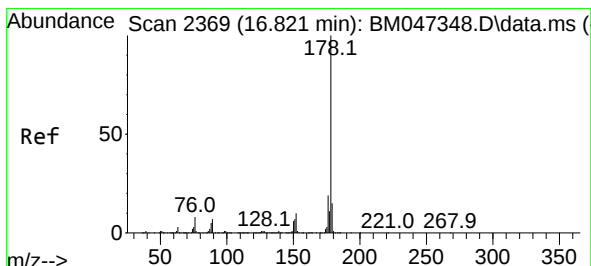
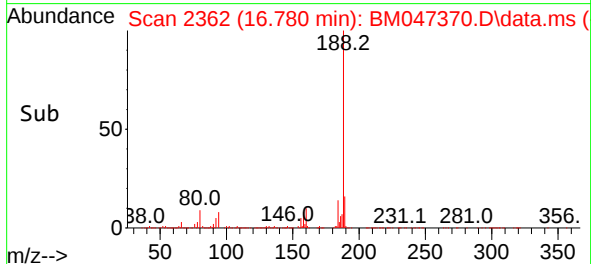
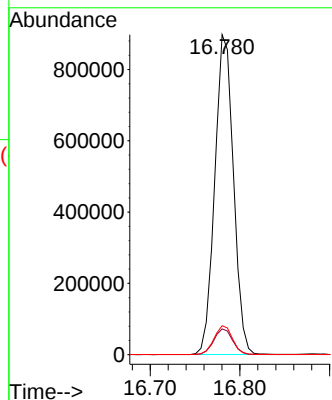
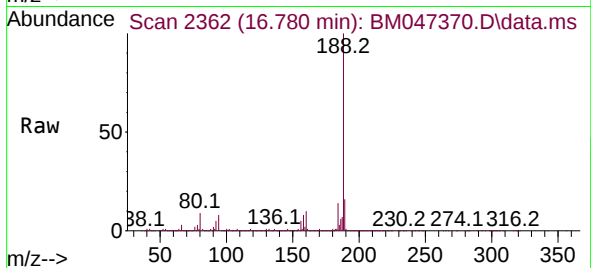
Tgt Ion:188 Resp: 1298500

Ion Ratio Lower Upper

188 100

94 8.0 6.4 9.6

80 9.1 7.4 11.2



#71

Phenanthrene

Concen: 93.270 ng

RT: 16.827 min Scan# 2370

Delta R.T. 0.006 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

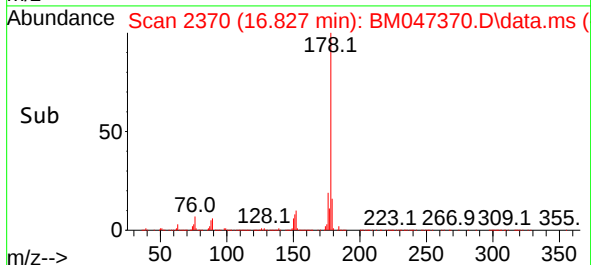
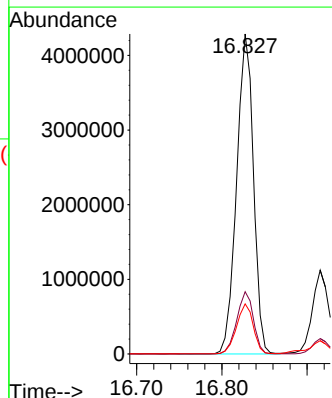
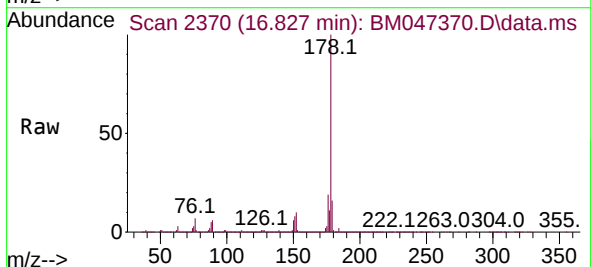
Tgt Ion:178 Resp: 5881717

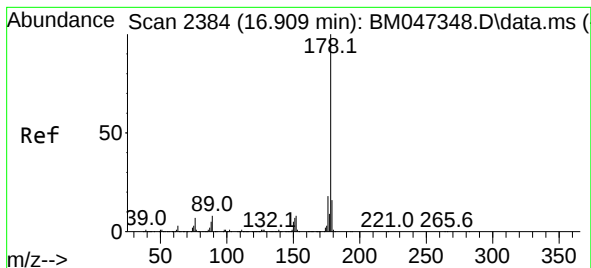
Ion Ratio Lower Upper

178 100

176 19.5 15.2 22.8

179 15.7 12.2 18.4





#72

Anthracene

Concen: 24.160 ng

RT: 16.915 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

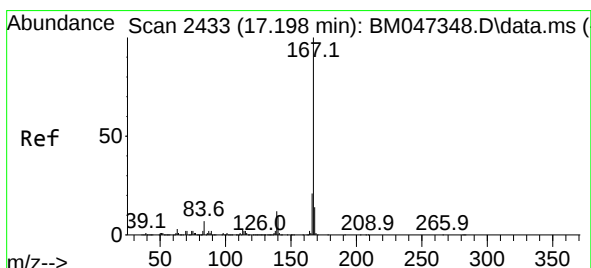
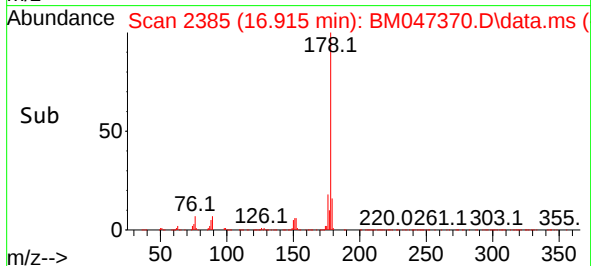
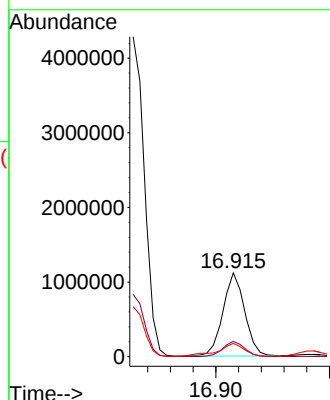
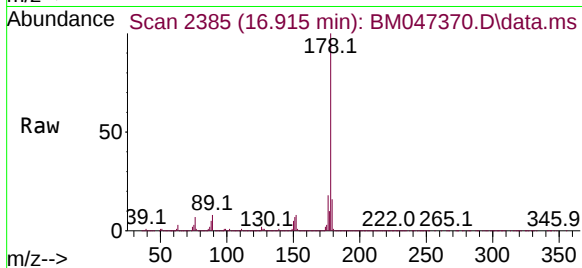
Tgt Ion:178 Resp: 1485231

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.8 12.6 18.8



#73

Carbazole

Concen: 8.533 ng

RT: 17.198 min Scan# 2433

Delta R.T. 0.000 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

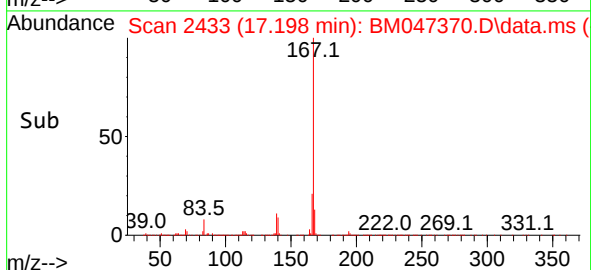
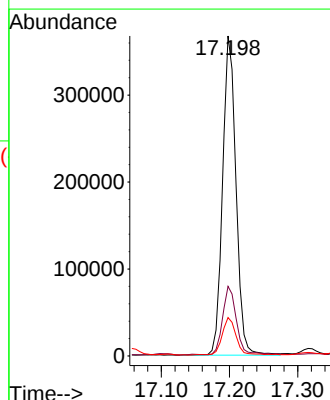
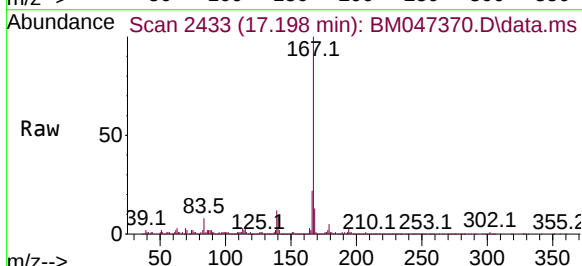
Tgt Ion:167 Resp: 503360

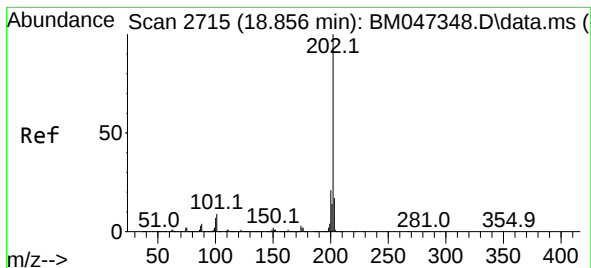
Ion Ratio Lower Upper

167 100

166 21.7 16.9 25.3

139 12.0 9.5 14.3





#75

Fluoranthene

Concen: 63.449 ng

RT: 18.868 min Scan# 21

Delta R.T. 0.012 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

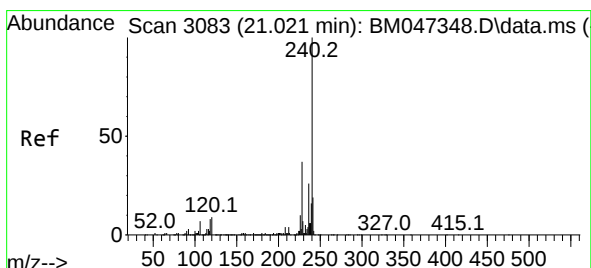
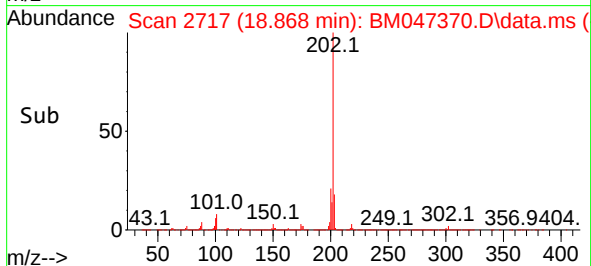
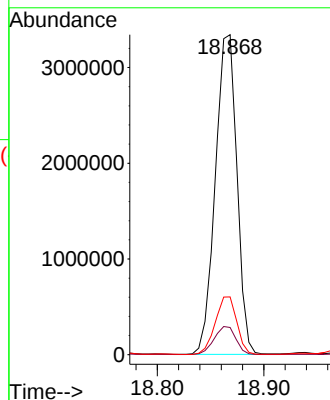
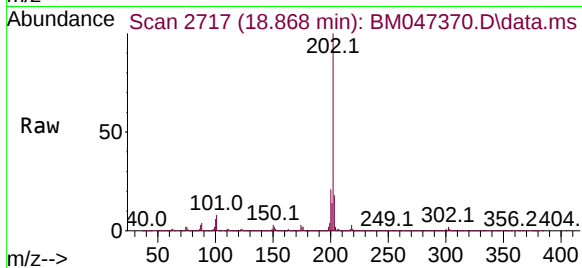
Tgt Ion:202 Resp: 4698066

Ion Ratio Lower Upper

202 100

101 8.5 0.0 29.0

203 18.1 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.027 min Scan# 3084

Delta R.T. 0.006 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

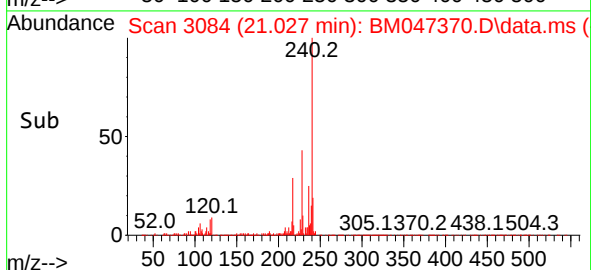
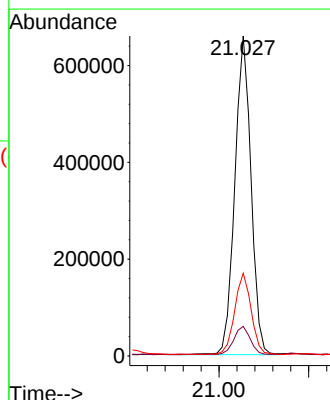
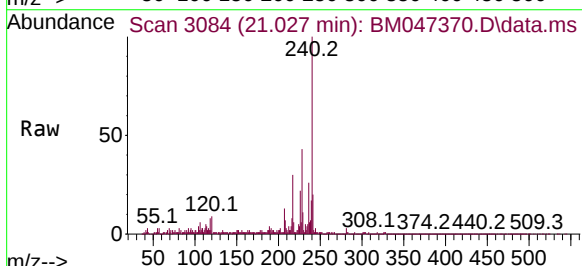
Tgt Ion:240 Resp: 824570

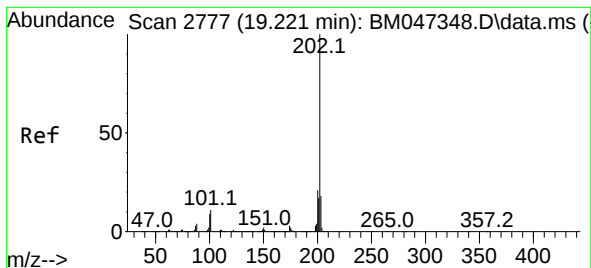
Ion Ratio Lower Upper

240 100

120 9.2 7.4 11.0

236 25.9 20.8 31.2





#78

Pyrene

Concen: 68.788 ng

RT: 19.233 min Scan# 21

Delta R.T. 0.012 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

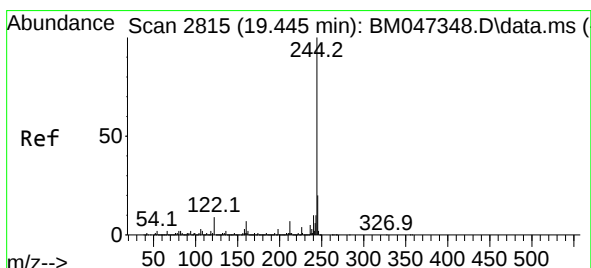
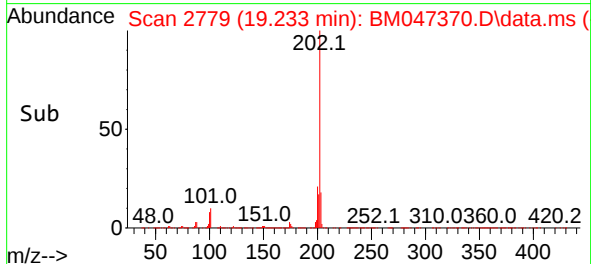
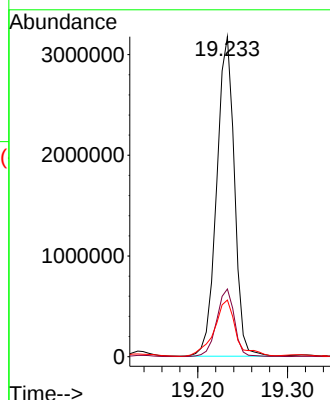
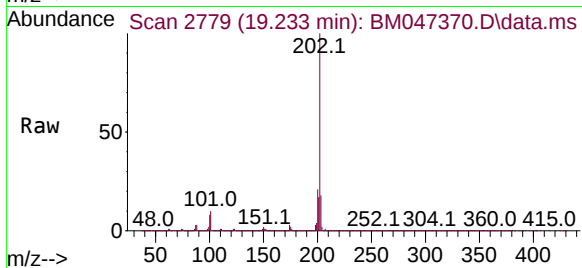
Tgt Ion:202 Resp: 4350317

Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.7 14.2 21.4



#79

Terphenyl-d14

Concen: 54.738 ng

RT: 19.451 min Scan# 2816

Delta R.T. 0.006 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

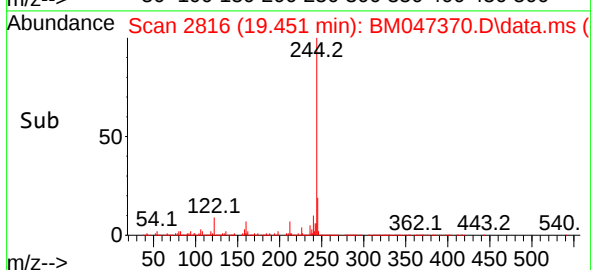
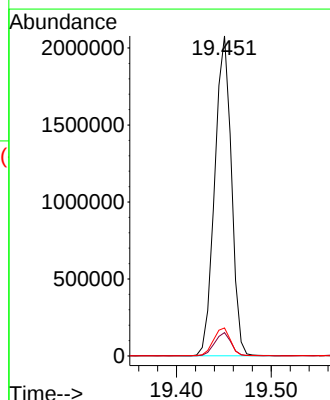
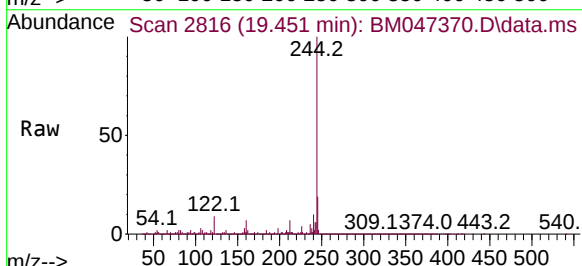
Tgt Ion:244 Resp: 2535754

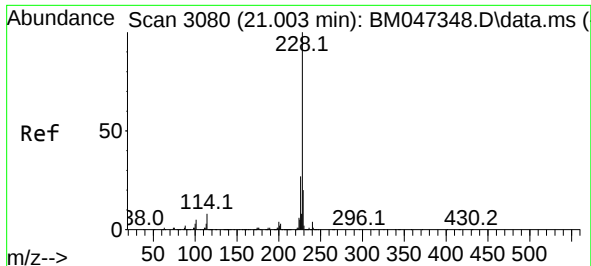
Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

122 8.8 7.0 10.4

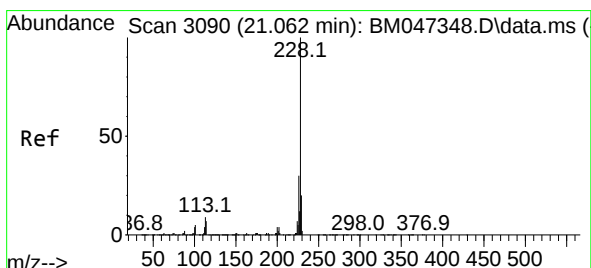
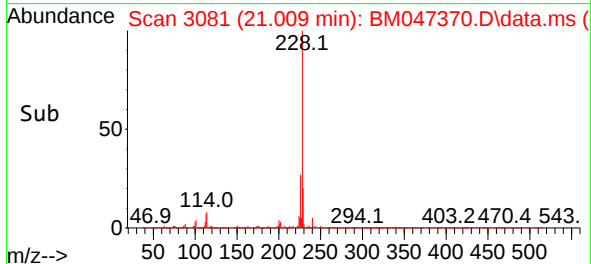
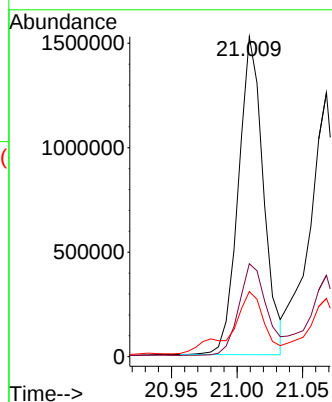
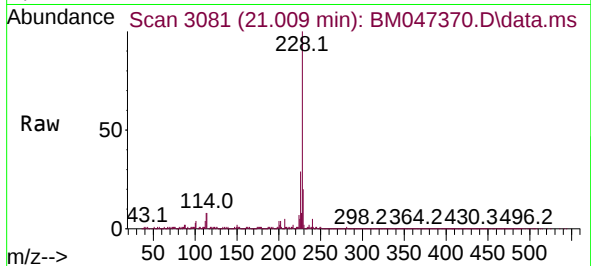




#81  
Benzo(a)anthracene  
Concen: 37.726 ng  
RT: 21.009 min Scan# 3080  
Delta R.T. 0.006 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

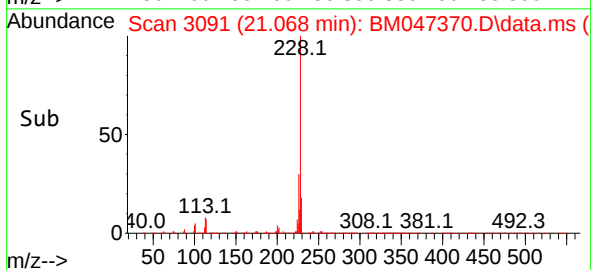
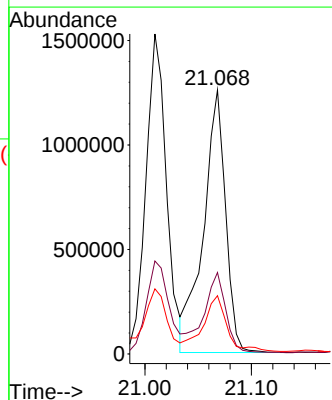
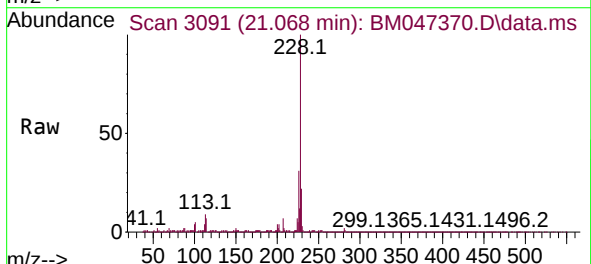
Instrument :  
BNA\_M  
ClientSampleId :  
WC-11

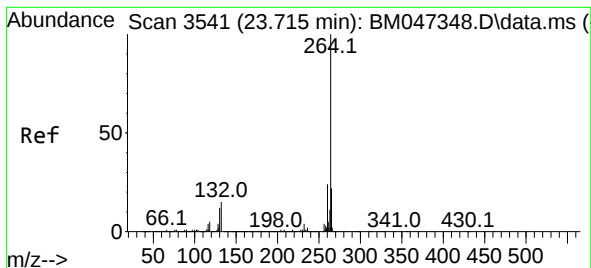
Tgt Ion:228 Resp: 2028634  
Ion Ratio Lower Upper  
228 100  
226 29.1 21.4 32.0  
229 20.4 15.8 23.8



#83  
Chrysene  
Concen: 35.997 ng  
RT: 21.068 min Scan# 3091  
Delta R.T. 0.006 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion:228 Resp: 1820807  
Ion Ratio Lower Upper  
228 100  
226 30.9 24.0 36.0  
229 22.0 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.733 min Scan# 3

Delta R.T. 0.018 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

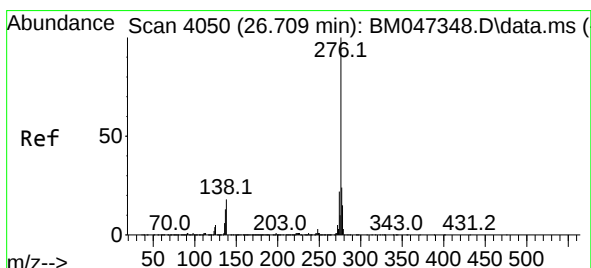
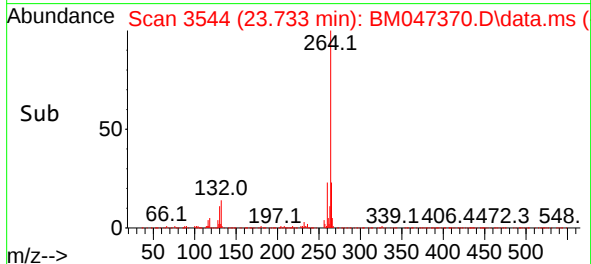
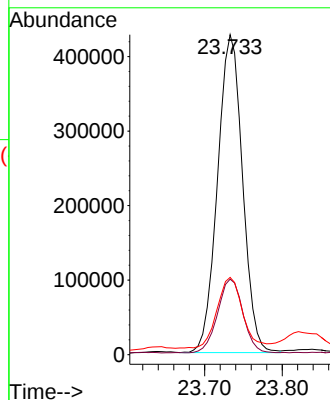
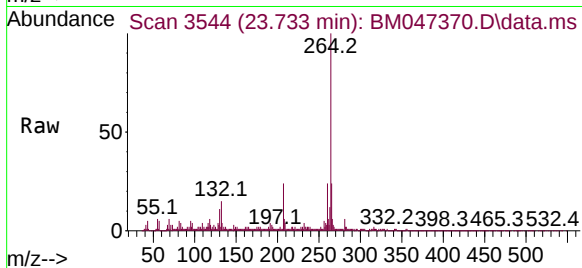
Tgt Ion:264 Resp: 957123

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

265 24.2 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.609 ng

RT: 26.744 min Scan# 4056

Delta R.T. 0.035 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

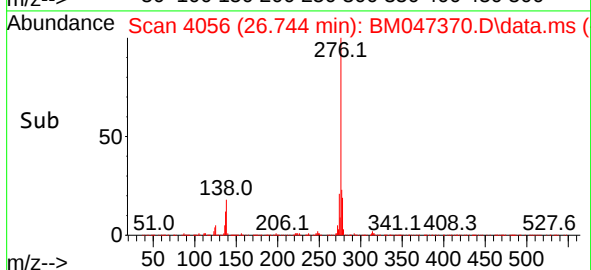
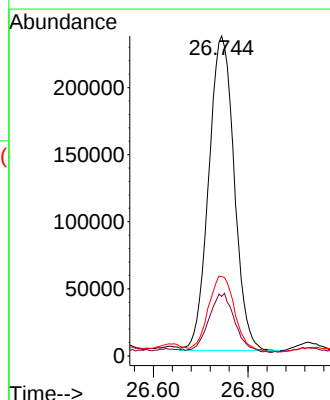
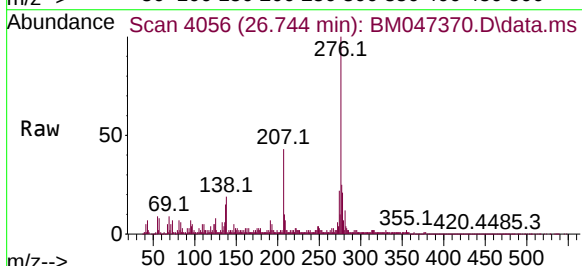
Tgt Ion:276 Resp: 875302

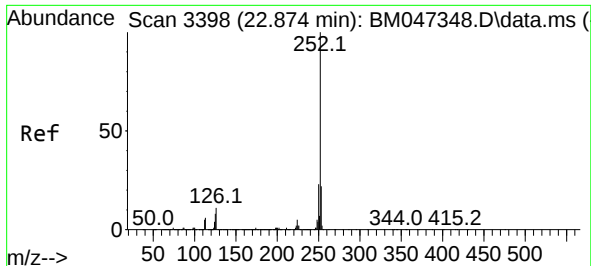
Ion Ratio Lower Upper

276 100

138 19.3 17.7 26.5

277 25.4 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 34.442 ng

RT: 22.892 min Scan# 3401

Delta R.T. 0.018 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

Instrument :

BNA\_M

ClientSampleId :

WC-11

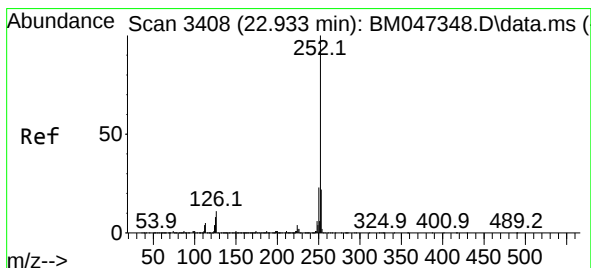
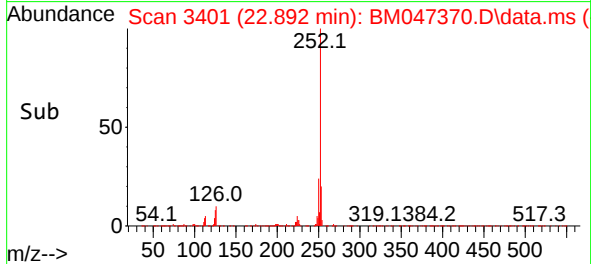
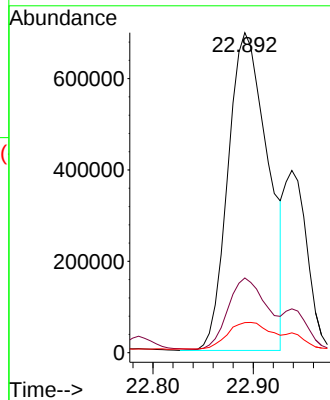
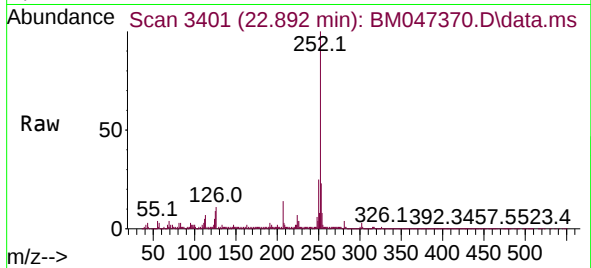
Tgt Ion:252 Resp: 1923250

Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.6

125 9.4 6.6 10.0



#89

Benzo(k)fluoranthene

Concen: 11.870 ng m

RT: 22.939 min Scan# 3409

Delta R.T. 0.006 min

Lab File: BM047370.D

Acq: 27 Aug 2024 19:19

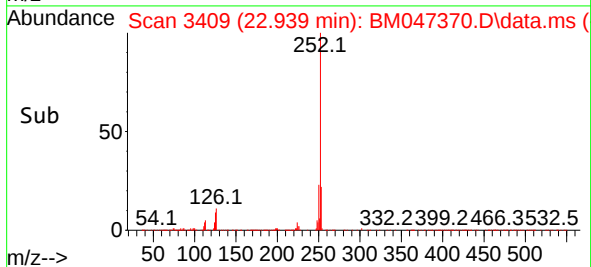
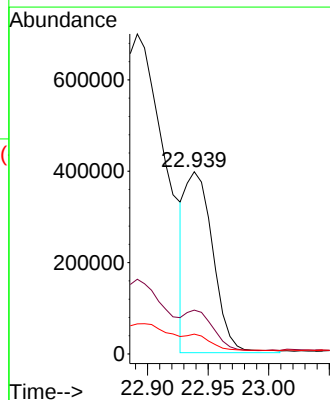
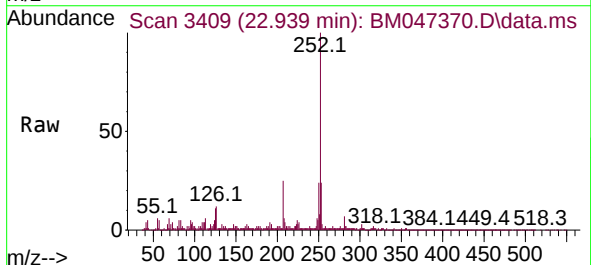
Tgt Ion:252 Resp: 628362

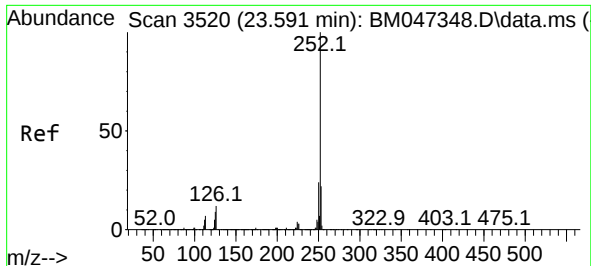
Ion Ratio Lower Upper

252 100

253 24.1 17.5 26.3

125 10.9 6.6 9.8#

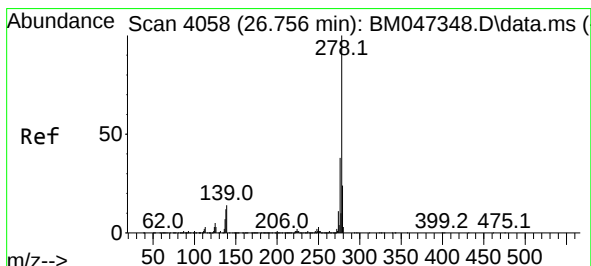
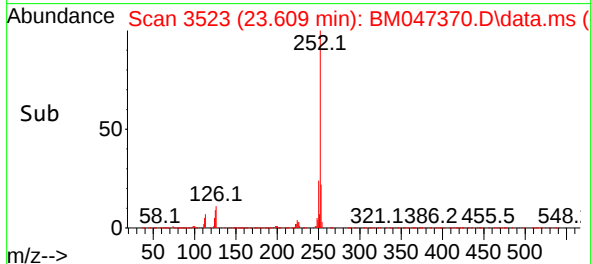
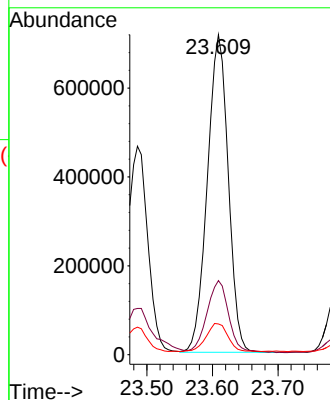
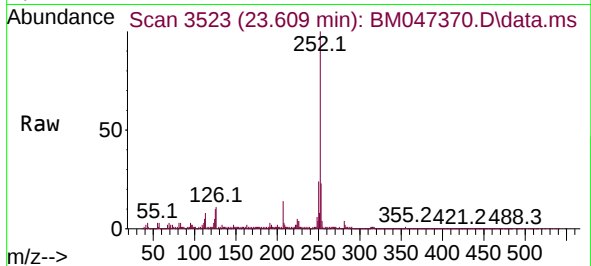




#90  
Benzo(a)pyrene  
Concen: 32.792 ng  
RT: 23.609 min Scan# 31  
Delta R.T. 0.018 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

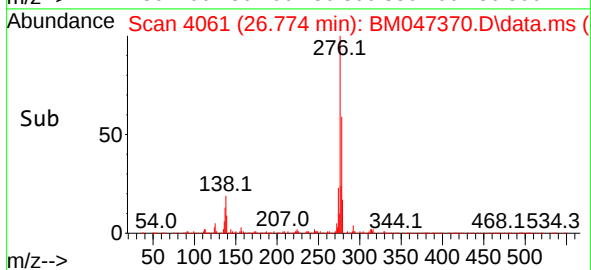
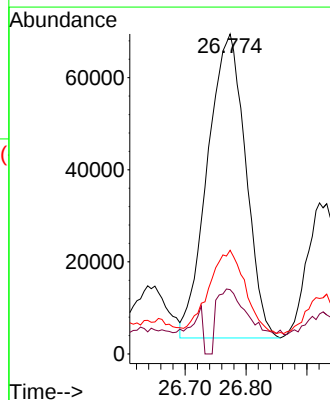
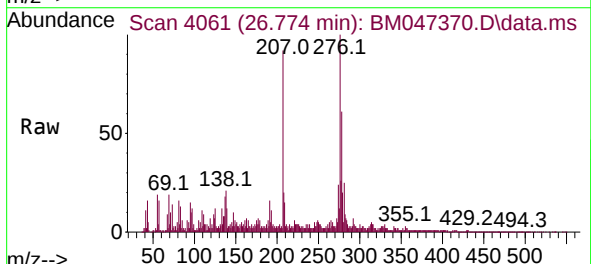
Instrument :  
BNA\_M  
ClientSampleId :  
WC-11

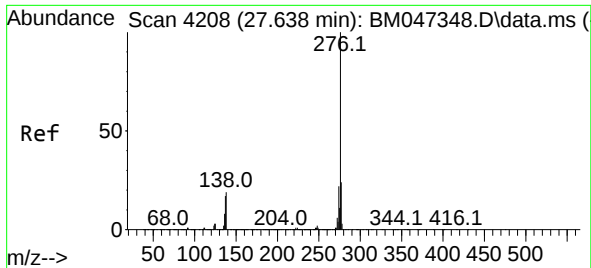
Tgt Ion:252 Resp: 1583534  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.7 26.5  
125 9.6 7.4 11.2



#91  
Dibenzo(a,h)anthracene  
Concen: 5.906 ng  
RT: 26.774 min Scan# 4061  
Delta R.T. 0.018 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Tgt Ion:278 Resp: 286662  
Ion Ratio Lower Upper  
278 100  
139 20.1 11.1 16.7#  
279 32.4 19.2 28.8#





#92  
Benzo(g,h,i)perylene  
Concen: 17.159 ng  
RT: 27.685 min Scan# 41  
Delta R.T. 0.047 min  
Lab File: BM047370.D  
Acq: 27 Aug 2024 19:19

Instrument :  
BNA\_M  
ClientSampleId :  
WC-11

Tgt Ion:276 Resp: 865873  
Ion Ratio Lower Upper  
276 100  
277 24.7 19.4 29.0  
138 18.1 15.0 22.6

