

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF050624\  
 Data File : BF137841.D  
 Acq On : 06 May 2024 15:16  
 Operator : CG\JU  
 Sample : P2327-04  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

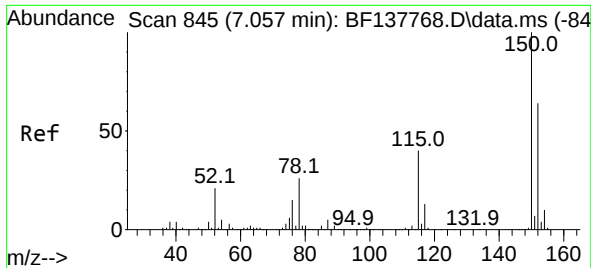
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-4(4.0-4.5)

Quant Time: May 06 16:09:18 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF043024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 03:25:08 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.051  | 152  | 113793   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.334  | 136  | 396714   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 10.116 | 164  | 145943   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.639 | 188  | 175171   | 20.000 | ng    | # 0.04   |
| 76) Chrysene-d12              | 14.274 | 240  | 214641   | 20.000 | ng    | # 0.02   |
| 86) Perylene-d12              | 15.827 | 264  | 256583   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.663  | 112  | 491143   | 72.264 | ng    | -0.01    |
| 7) Phenol-d6                  | 6.657  | 99   | 598573   | 69.434 | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 7.604  | 82   | 352444   | 51.615 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.922 | 330  | 116842   | 78.411 | ng    | 0.02     |
| 45) 2-Fluorobiphenyl          | 9.410  | 172  | 560475   | 62.305 | ng    | -0.01    |
| 79) Terphenyl-d14             | 13.221 | 244  | 530183   | 41.395 | ng    | 0.04     |
| Target Compounds              |        |      |          |        |       |          |
| 19) n-Nitroso-di-n-propyla... | 7.604  | 70   | 45657    | 8.862  | ng    | # 76     |
| 25) Isophorone                | 7.604  | 82   | 350543   | 28.473 | ng    | # 64     |
| 36) 4-Chloro-3-methylphenol   | 8.886  | 107  | 18272    | 3.160  | ng    | # 20     |
| 48) 2-Nitroaniline            | 9.651  | 65   | 17157    | 7.823  | ng    | # 59     |
| 50) Dimethylphthalate         | 9.798  | 163  | 27923    | 3.031  | ng    | # 8      |
| 51) 2,6-Dinitrotoluene        | 9.869  | 165  | 43521    | 20.670 | ng    | # 32     |
| 53) 3-Nitroaniline            | 10.075 | 138  | 13160    | 5.969  | ng    | # 34     |
| 56) 4-Nitrophenol             | 10.227 | 139  | 26929    | 14.736 | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 10.280 | 165  | 25009    | 9.092  | ng    | # 36     |
| 61) 4-Chlorophenyl-phenyle... | 10.692 | 204  | 14068    | 3.180  | ng    | # 1      |
| 62) 4-Nitroaniline            | 10.657 | 138  | 7104     | 3.176  | ng    | # 47     |
| 63) Azobenzene                | 10.822 | 77   | 33970    | 4.017  | ng    | # 37     |
| 65) 4,6-Dinitro-2-methylph... | 10.739 | 198  | 2843     | 2.828  | ng    | # 1      |
| 66) n-Nitrosodiphenylamine    | 10.786 | 169  | 39819    | 7.594  | ng    | # 78     |
| 67) 4-Bromophenyl-phenylether | 11.169 | 248  | 5964     | 3.181  | ng    | # 1      |
| 69) Atrazine                  | 11.327 | 200  | 9274     | 5.801  | ng    | # 1      |
| 70) Pentachlorophenol         | 11.469 | 266  | 19642    | 13.965 | ng    | # 37     |
| 74) Di-n-butylphthalate       | 12.174 | 149  | 33629    | 3.765  | ng    | # 22     |
| 80) Butylbenzylphthalate      | 13.657 | 149  | 11657    | 2.159  | ng    | # 54     |
| 85) Di-n-octyl phthalate      | 14.880 | 149  | 22003    | 2.403  | ng    | # 1      |

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

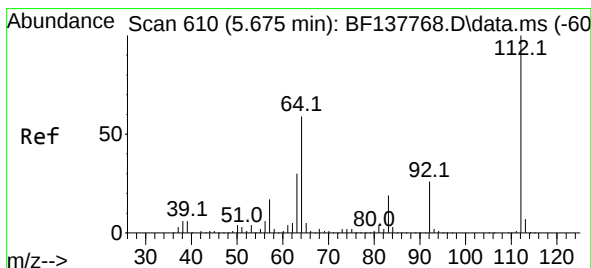
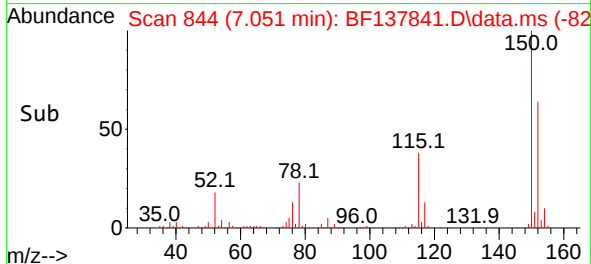
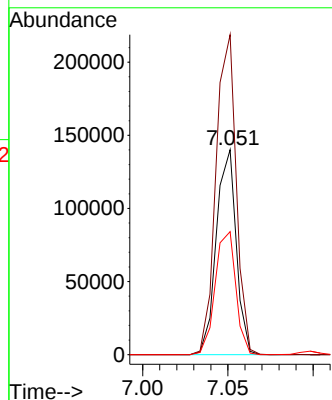
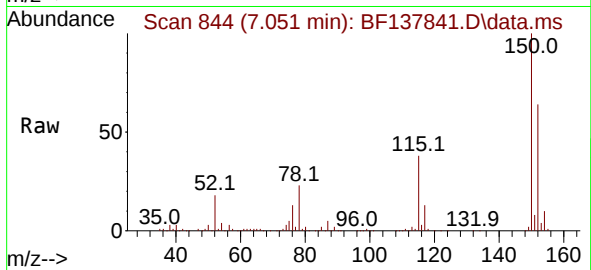




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.051 min Scan# 84  
Delta R.T. -0.006 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

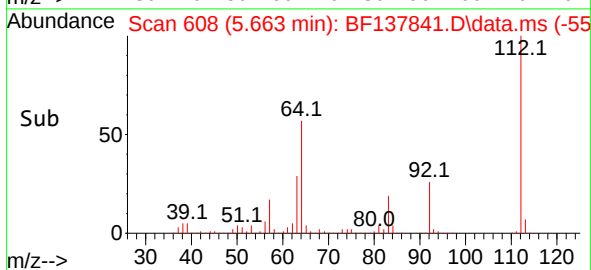
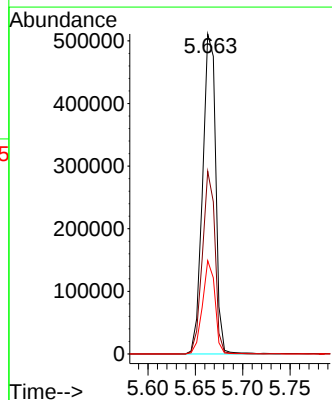
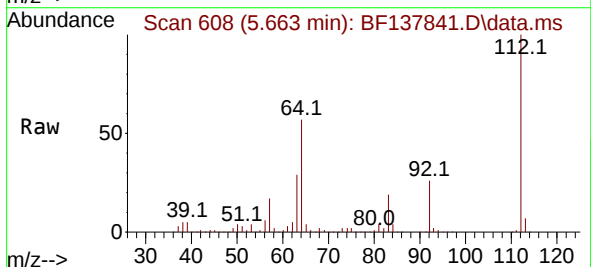
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

Tgt Ion:152 Resp: 113793  
Ion Ratio Lower Upper  
152 100  
150 156.1 124.1 186.1  
115 60.0 49.1 73.7



#5  
2-Fluorophenol  
Concen: 72.264 ng  
RT: 5.663 min Scan# 608  
Delta R.T. -0.012 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion:112 Resp: 491143  
Ion Ratio Lower Upper  
112 100  
64 57.1 47.3 70.9  
63 29.2 23.7 35.5

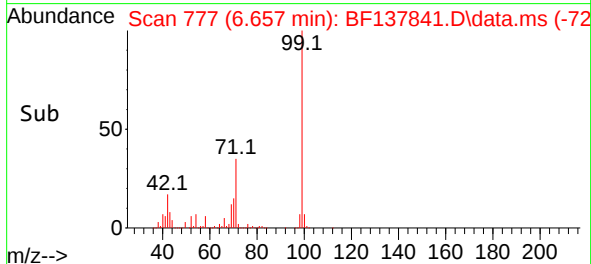
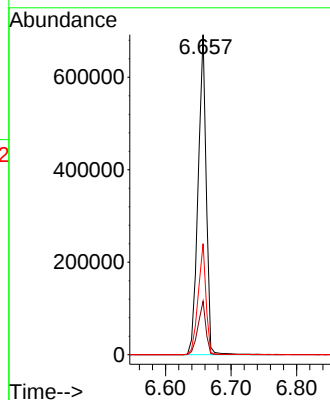
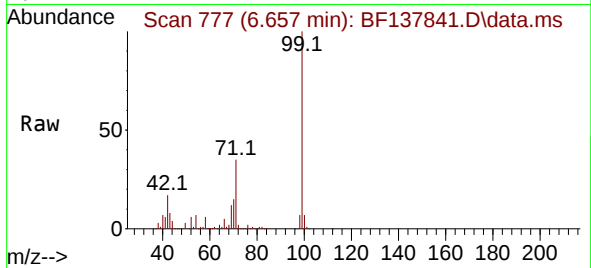




#7  
Phenol-d6  
Concen: 69.434 ng  
RT: 6.657 min Scan# 71  
Delta R.T. -0.018 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

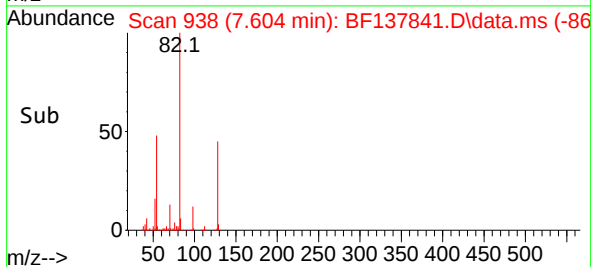
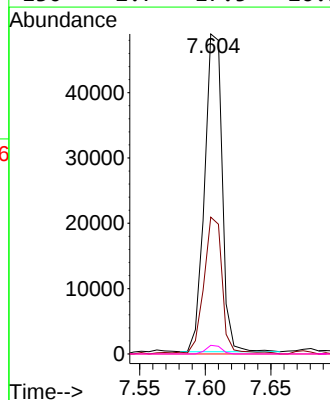
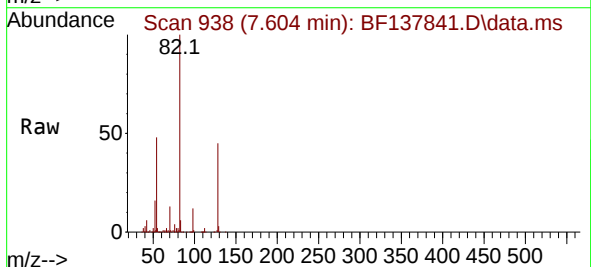
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BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

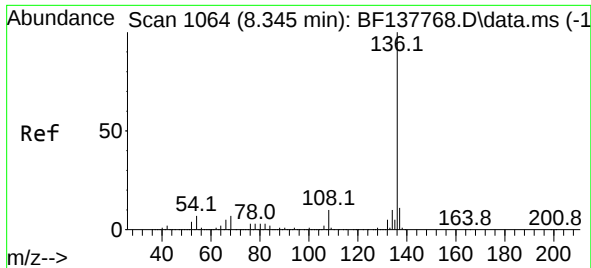
Tgt Ion: 99 Resp: 598573  
Ion Ratio Lower Upper  
99 100  
42 16.7 13.2 19.8  
71 34.7 25.0 37.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 8.862 ng  
RT: 7.604 min Scan# 938  
Delta R.T. 0.141 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion: 70 Resp: 45657  
Ion Ratio Lower Upper  
70 100  
42 42.7 44.6 66.8#  
101 0.0 7.8 11.6#  
130 2.7 17.5 26.3#



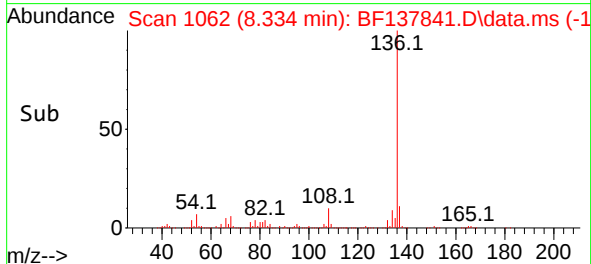
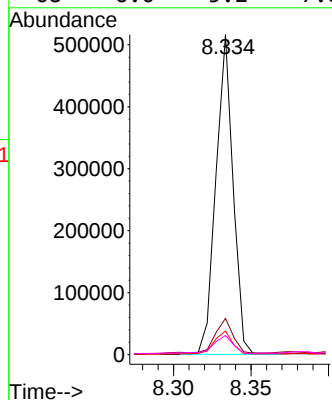
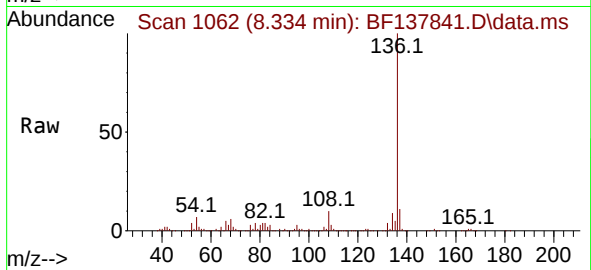


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.334 min Scan# 1062  
Delta R.T. -0.012 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

Tgt Ion:136 Resp: 396714

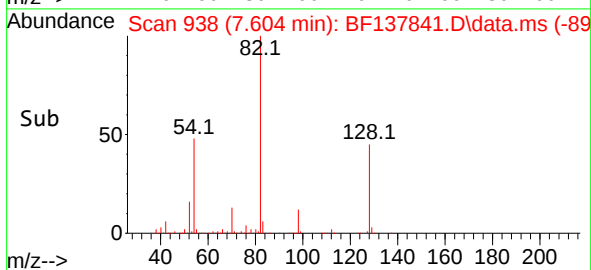
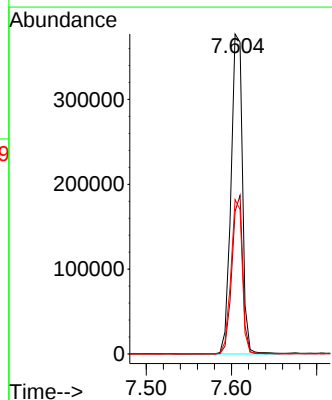
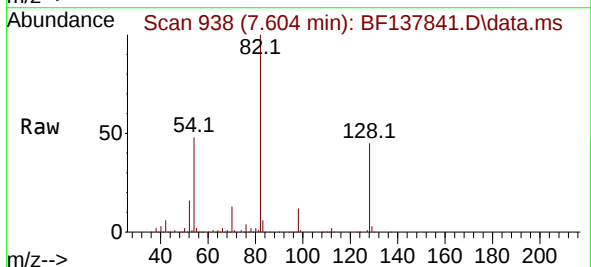
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.4  | 8.8   | 13.2  |
| 54  | 7.4   | 5.8   | 8.8   |
| 68  | 6.0   | 5.2   | 7.8   |



#23  
Nitrobenzene-d5  
Concen: 51.615 ng  
RT: 7.604 min Scan# 938  
Delta R.T. -0.018 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion: 82 Resp: 352444

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 44.5  | 37.5  | 56.3  |
| 54  | 48.3  | 39.8  | 59.6  |

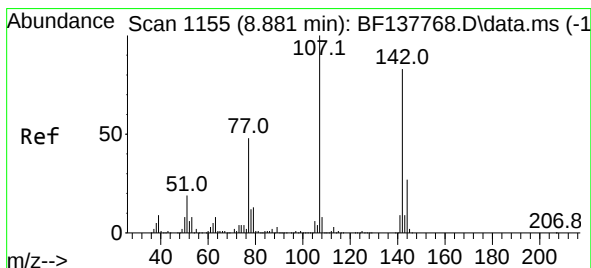
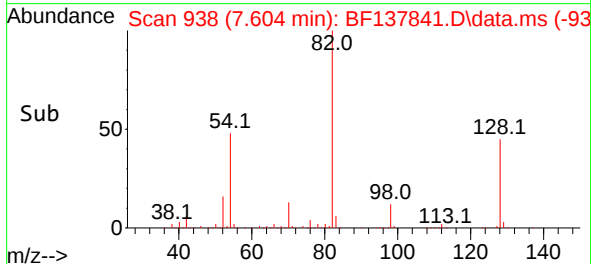
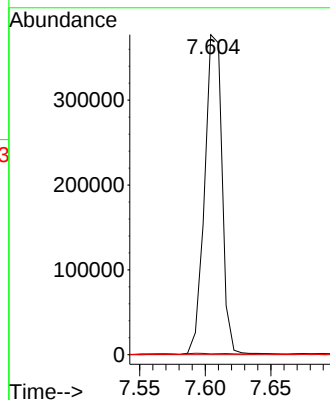
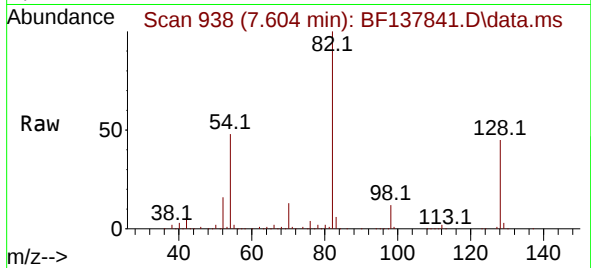




#25  
Isophorone  
Concen: 28.473 ng  
RT: 7.604 min Scan# 91  
Delta R.T. -0.271 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

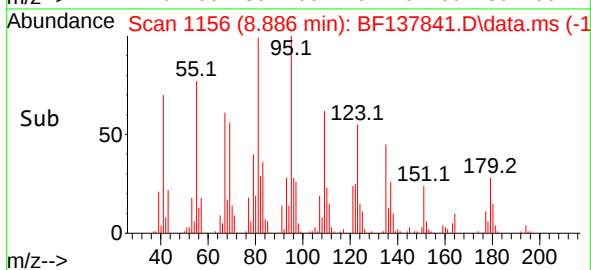
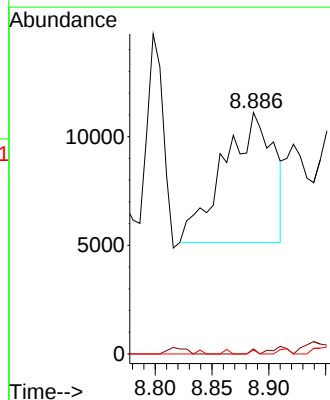
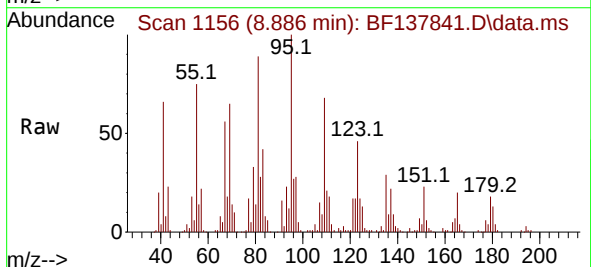
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ClientSampleId :  
PE-4(4.0-4.5)

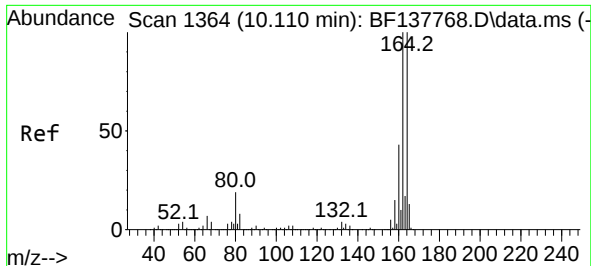
Tgt Ion: 82 Resp: 350543  
Ion Ratio Lower Upper  
82 100  
95 0.3 5.7 8.5#  
138 0.0 15.0 22.6#



#36  
4-Chloro-3-methylphenol  
Concen: 3.160 ng  
RT: 8.886 min Scan# 1156  
Delta R.T. 0.006 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion: 107 Resp: 18272  
Ion Ratio Lower Upper  
107 100  
144 2.1 21.4 32.0#  
142 1.6 66.2 99.2#

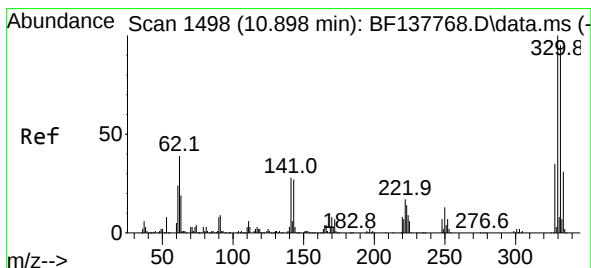
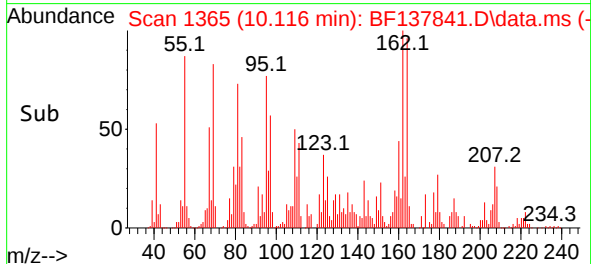
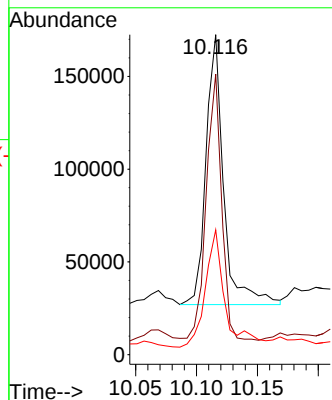
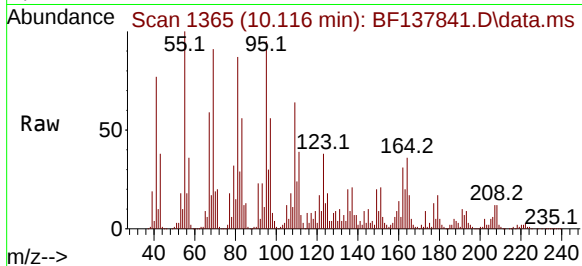




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.116 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

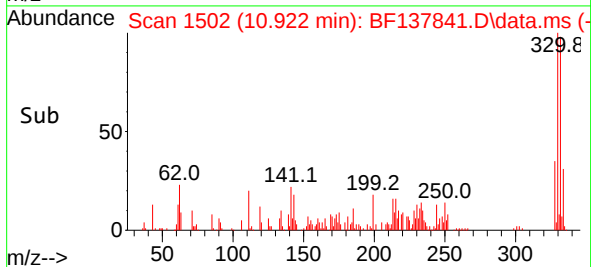
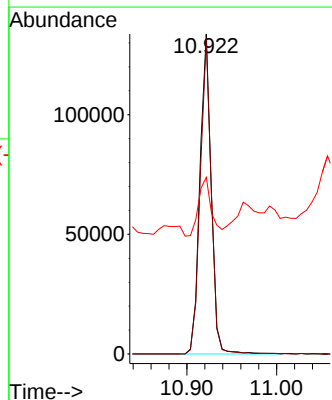
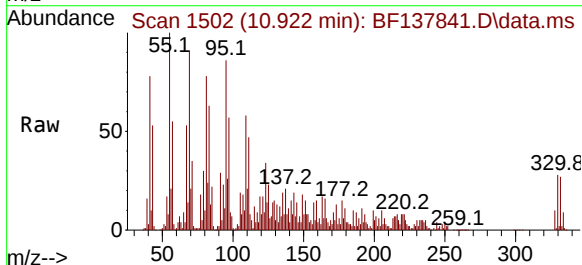
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

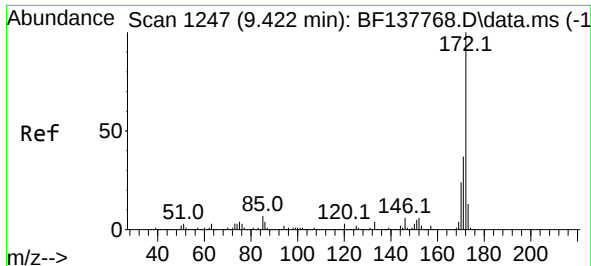
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Ion Ratio Lower Upper  
164 100  
162 87.7 79.8 119.6  
160 39.0 34.4 51.6



#42  
2,4,6-Tribromophenol  
Concen: 78.411 ng  
RT: 10.922 min Scan# 1502  
Delta R.T. 0.023 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion:330 Resp: 116842  
Ion Ratio Lower Upper  
330 100  
332 96.3 77.3 115.9  
141 20.8 23.8 35.6#

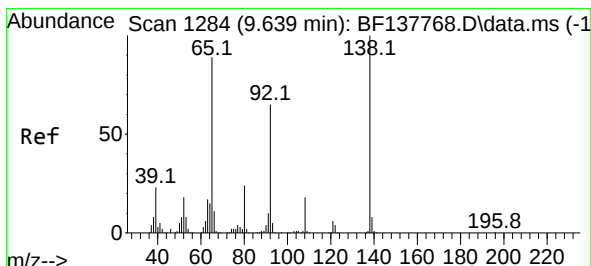
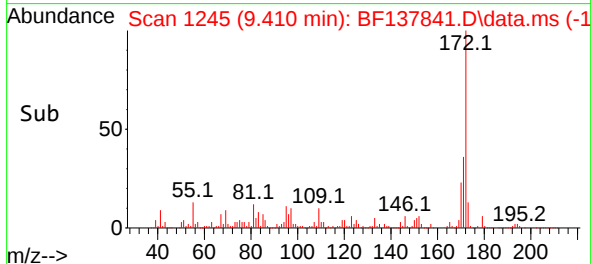
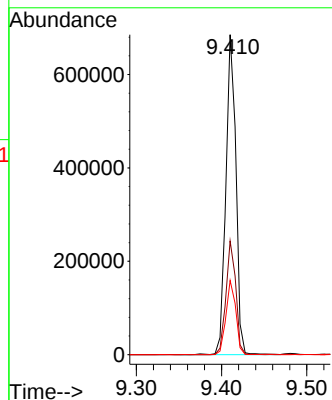
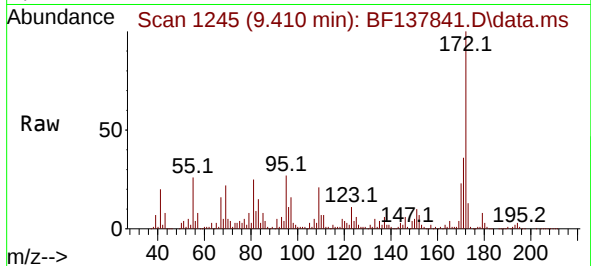




#45  
2-Fluorobiphenyl  
Concen: 62.305 ng  
RT: 9.410 min Scan# 1245  
Delta R.T. -0.012 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

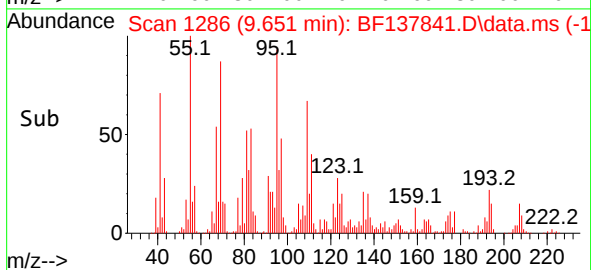
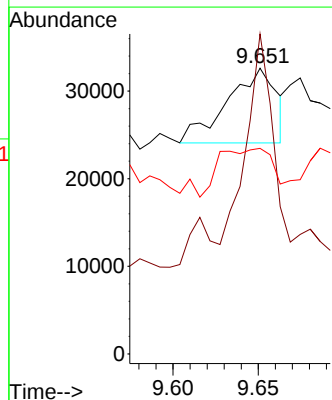
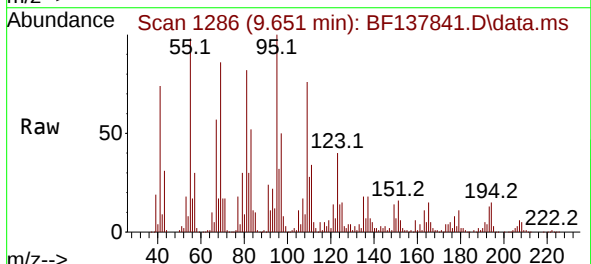
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

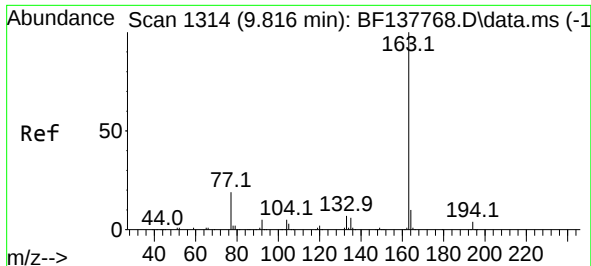
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Ion Ratio Lower Upper  
172 100  
171 35.5 29.6 44.4  
170 23.2 19.4 29.2



#48  
2-Nitroaniline  
Concen: 7.823 ng  
RT: 9.651 min Scan# 1286  
Delta R.T. 0.012 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion: 65 Resp: 17157  
Ion Ratio Lower Upper  
65 100  
92 112.0 58.6 88.0#  
138 71.9 90.3 135.5#

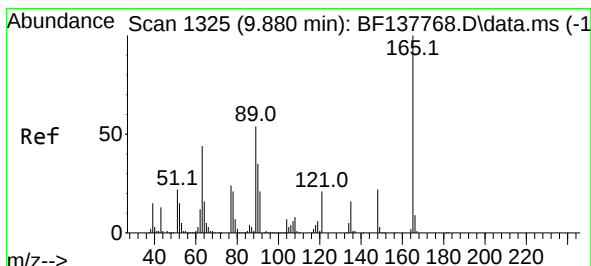
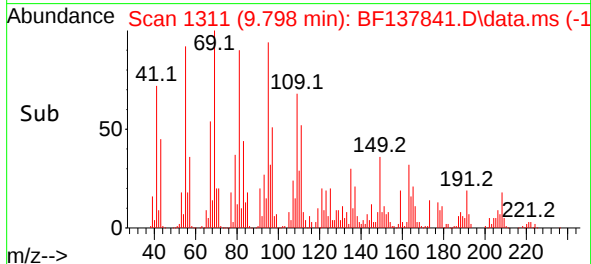
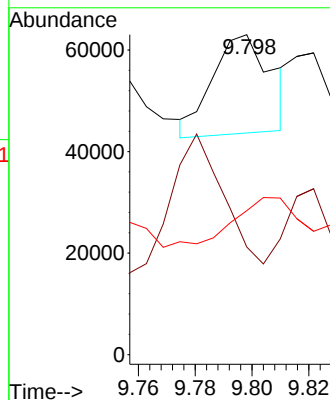
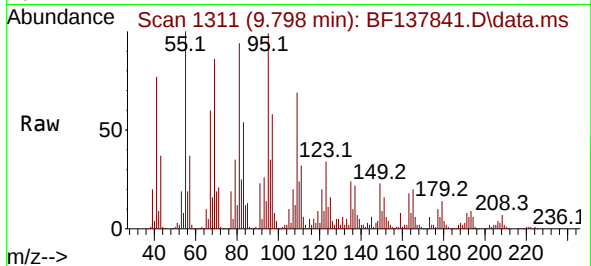




#50  
Dimethylphthalate  
Concen: 3.031 ng  
RT: 9.798 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

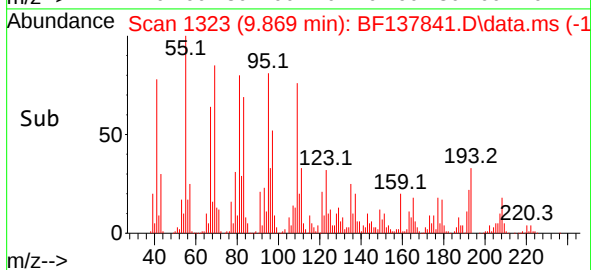
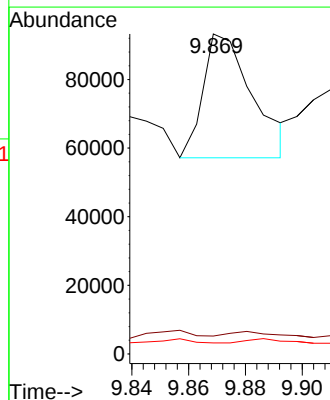
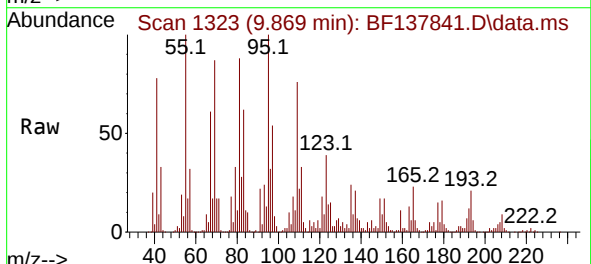
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

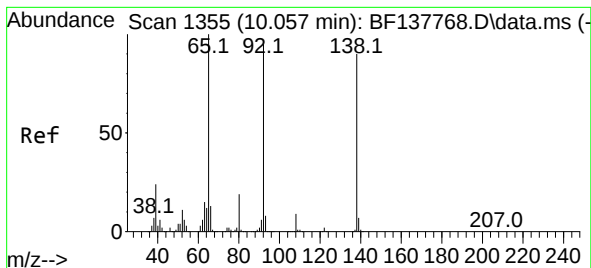
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Ion Ratio Lower Upper  
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194 33.6 3.3 4.9#  
164 45.0 8.3 12.5#



#51  
2,6-Dinitrotoluene  
Concen: 20.670 ng  
RT: 9.869 min Scan# 1323  
Delta R.T. -0.012 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion:165 Resp: 43521  
Ion Ratio Lower Upper  
165 100  
63 5.6 41.9 62.9#  
89 3.5 43.2 64.8#

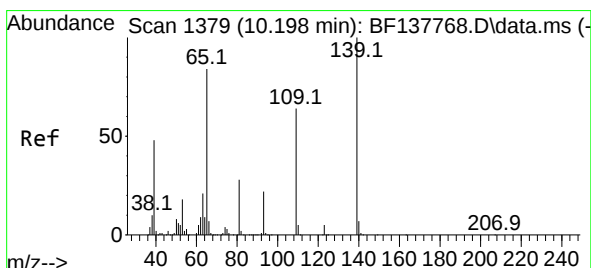
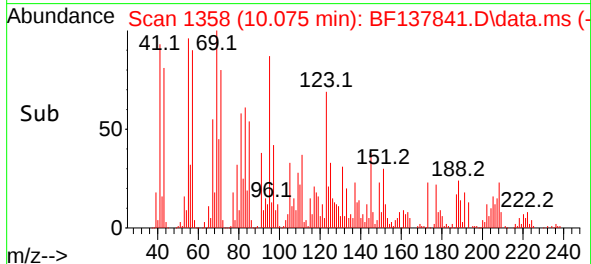
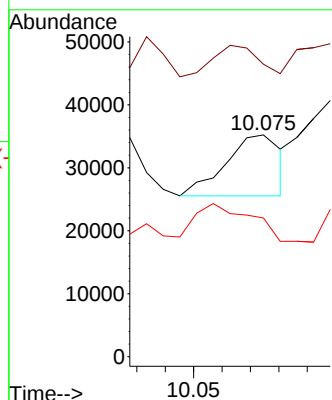
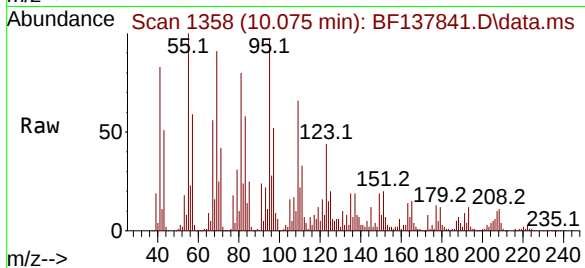




#53  
3-Nitroaniline  
Concen: 5.969 ng  
RT: 10.075 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

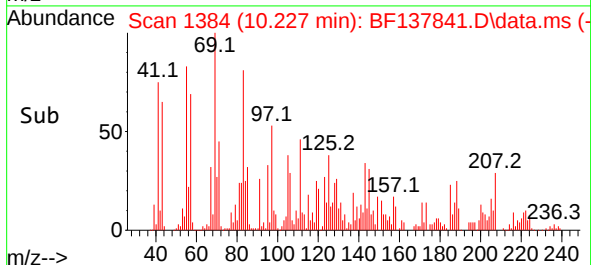
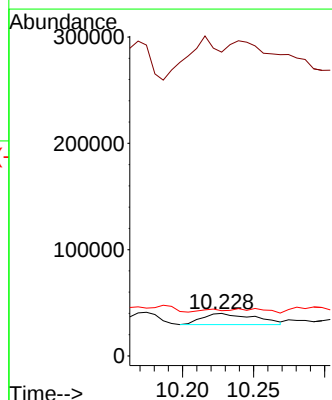
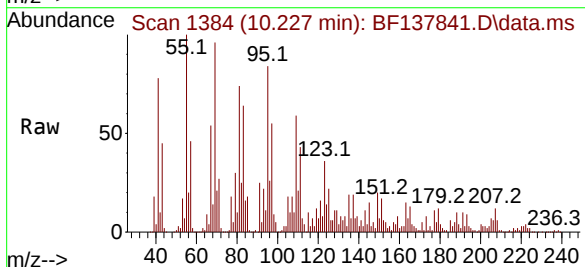
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

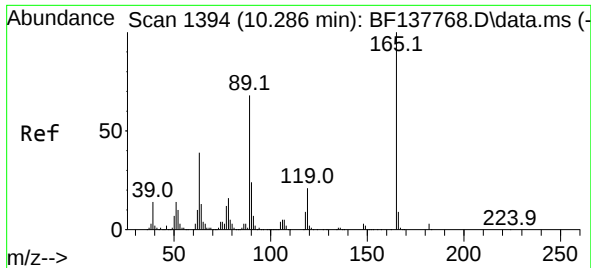
Tgt Ion:138 Resp: 13160  
Ion Ratio Lower Upper  
138 100  
108 131.8 7.8 11.6#  
92 62.5 84.6 126.8#



#56  
4-Nitrophenol  
Concen: 14.736 ng  
RT: 10.227 min Scan# 1384  
Delta R.T. 0.029 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion:139 Resp: 26929  
Ion Ratio Lower Upper  
139 100  
109 713.8 44.0 84.0#  
65 106.4 64.3 104.3#

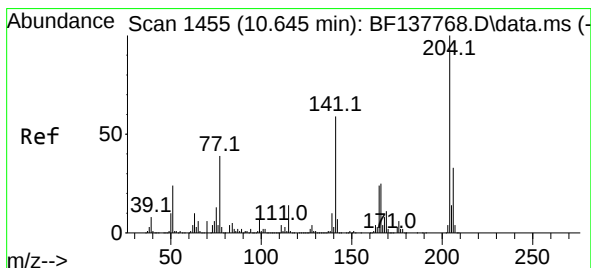
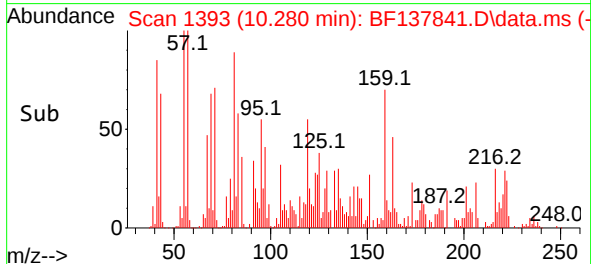
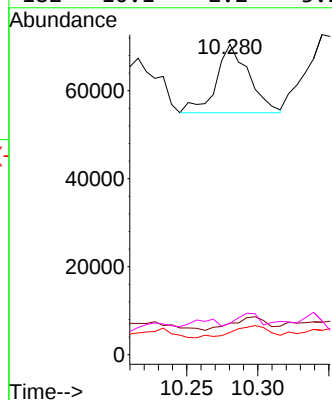
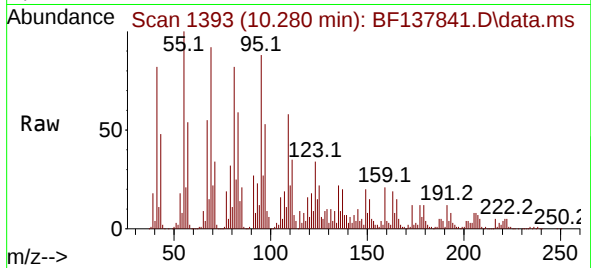




#57  
2,4-Dinitrotoluene  
Concen: 9.092 ng  
RT: 10.280 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

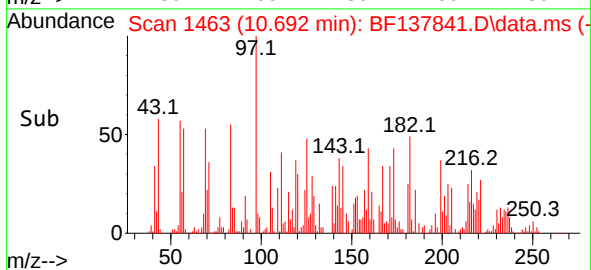
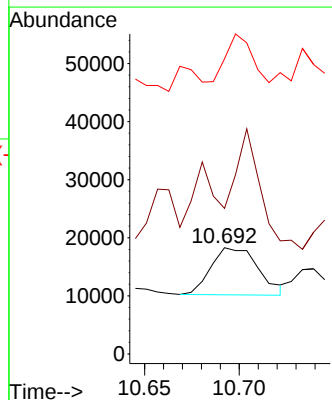
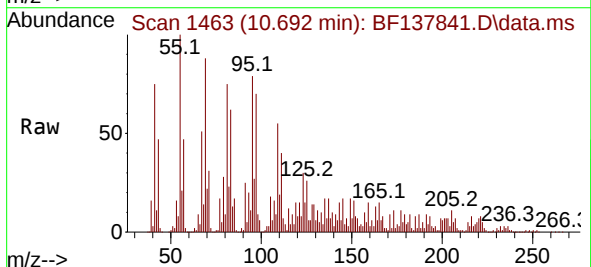
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

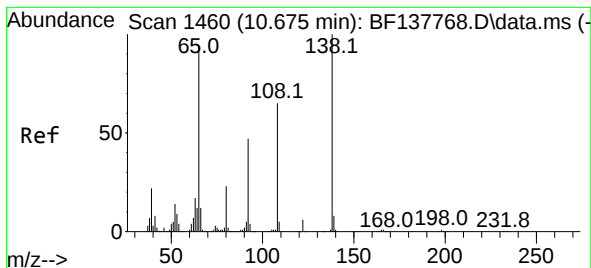
Tgt Ion:165 Resp: 25009  
Ion Ratio Lower Upper  
165 100  
63 10.2 31.3 46.9#  
89 7.1 54.2 81.4#  
182 10.1 2.2 3.2#



#61  
4-Chlorophenyl-phenylether  
Concen: 3.180 ng  
RT: 10.692 min Scan# 1463  
Delta R.T. 0.047 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion:204 Resp: 14068  
Ion Ratio Lower Upper  
204 100  
206 136.9 26.4 39.6#  
141 277.7 47.0 70.6#

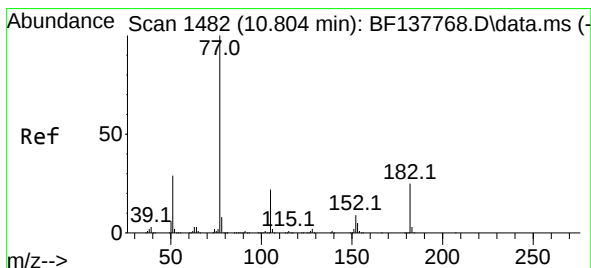
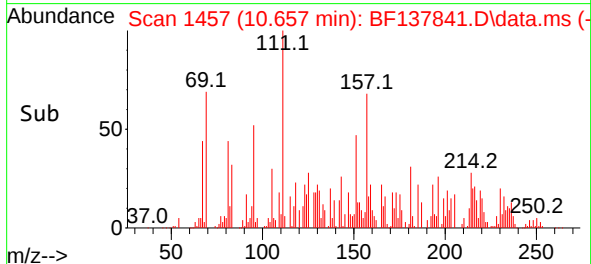
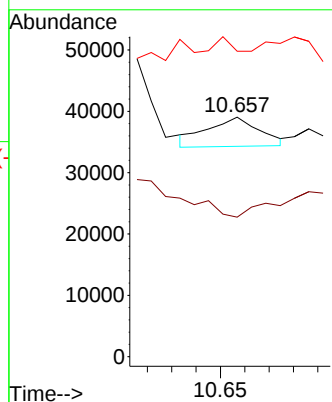
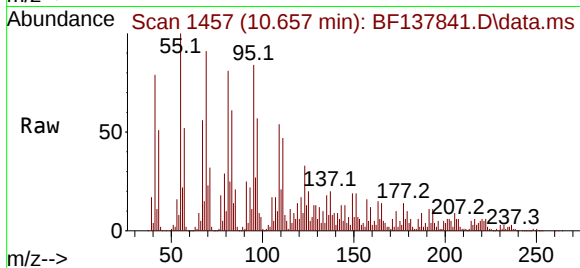




#62  
4-Nitroaniline  
Concen: 3.176 ng  
RT: 10.657 min Scan# 1457  
Delta R.T. -0.018 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

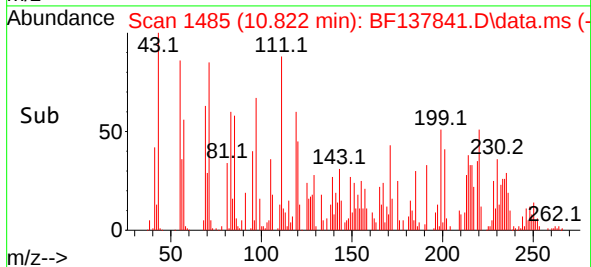
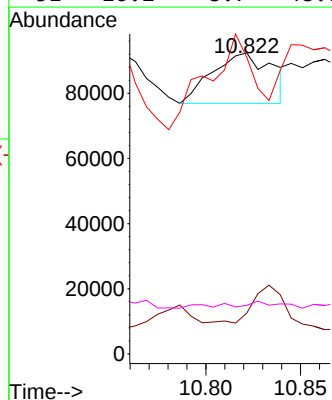
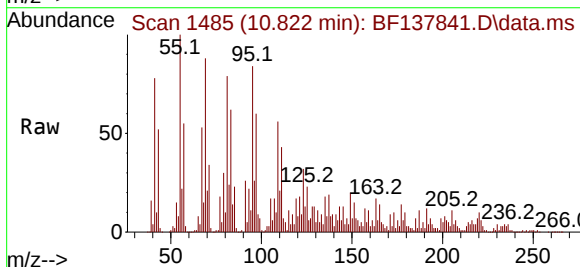
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

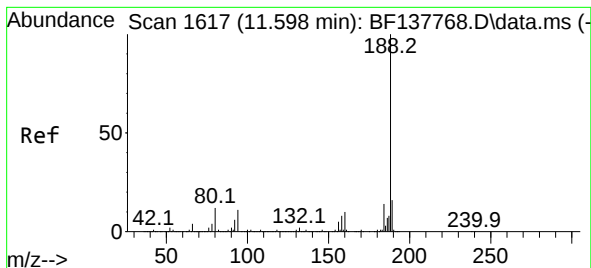
Tgt Ion:138 Resp: 7104  
Ion Ratio Lower Upper  
138 100  
92 58.2 26.8 66.8  
108 127.5 44.7 84.7#



#63  
Azobenzene  
Concen: 4.017 ng  
RT: 10.822 min Scan# 1485  
Delta R.T. 0.018 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion: 77 Resp: 33970  
Ion Ratio Lower Upper  
77 100  
182 13.5 5.1 45.1  
105 98.6 2.2 42.2#  
51 16.2 8.7 48.7

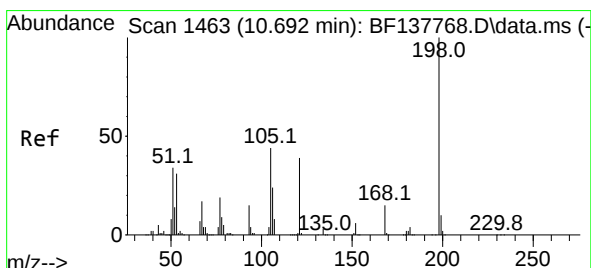
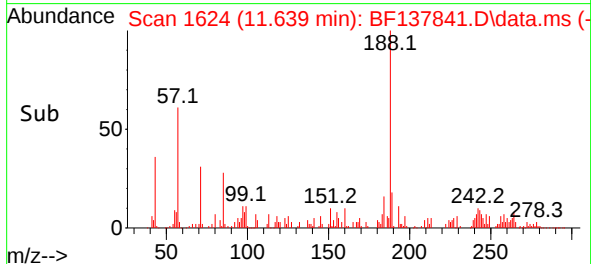
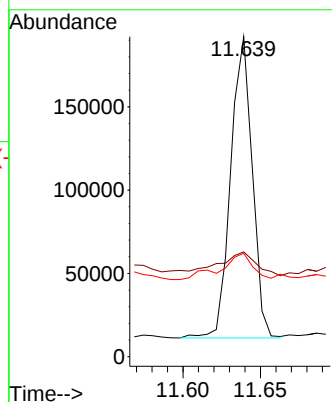
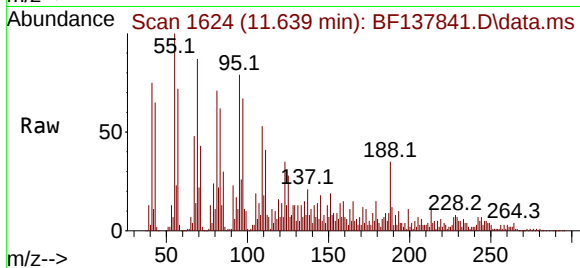




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.639 min Scan# 1  
Delta R.T. 0.041 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

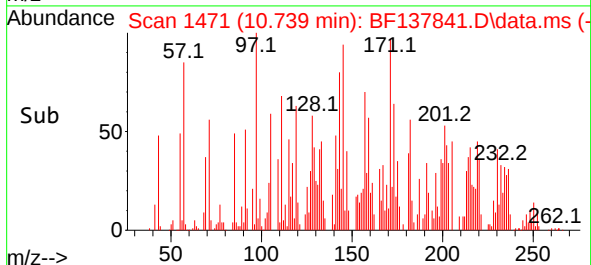
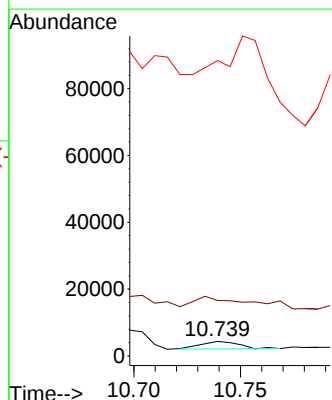
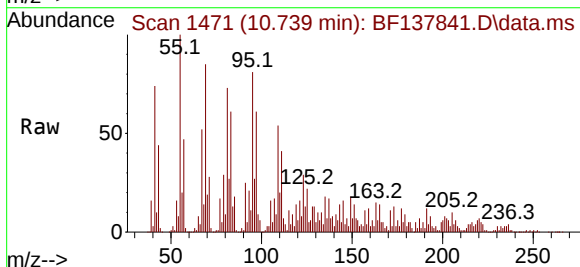
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

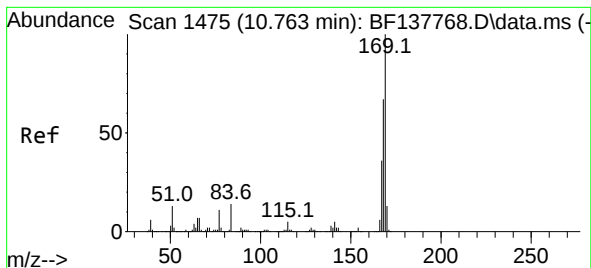
Tgt Ion:188 Resp: 175171  
Ion Ratio Lower Upper  
188 100  
94 32.8 8.8 13.2#  
80 32.3 9.6 14.4#



#65  
4,6-Dinitro-2-methylphenol  
Concen: 2.828 ng  
RT: 10.739 min Scan# 1471  
Delta R.T. 0.047 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion:198 Resp: 2843  
Ion Ratio Lower Upper  
198 100  
51 380.8 25.1 65.1#  
105 2025.9 24.1 64.1#

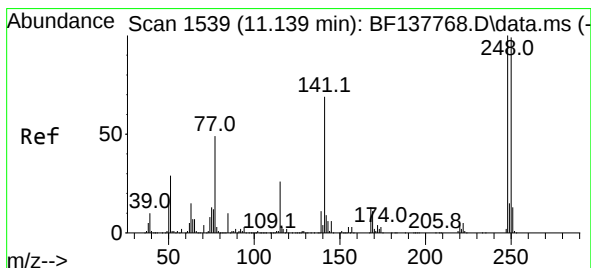
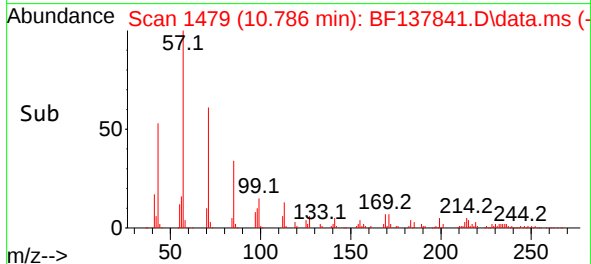
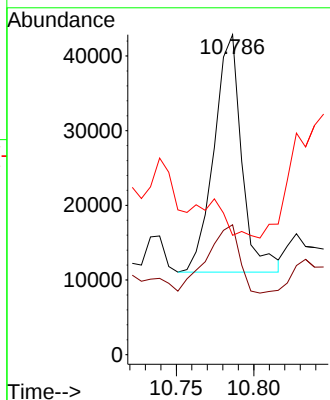
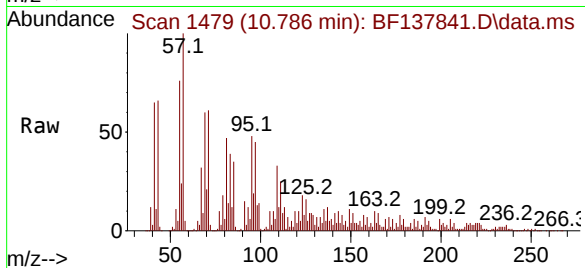




#66  
n-Nitrosodiphenylamine  
Concen: 7.594 ng  
RT: 10.786 min Scan# 1475  
Delta R.T. 0.023 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

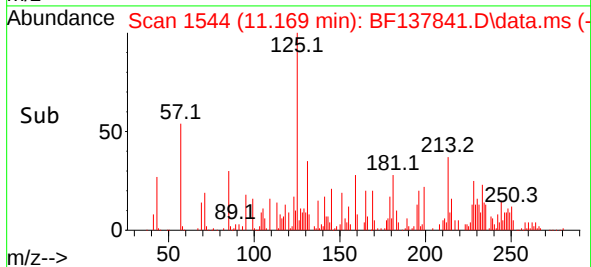
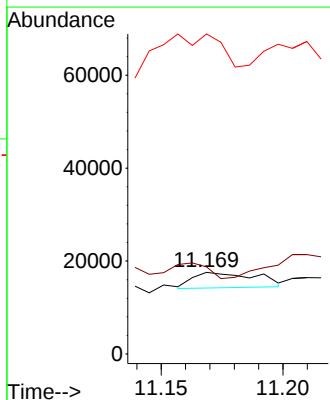
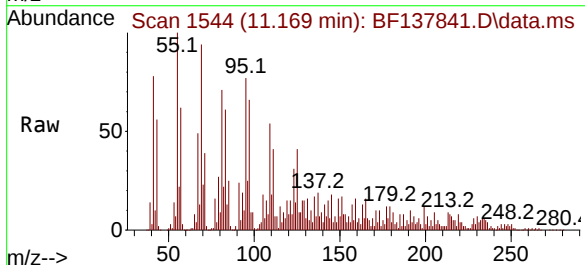
Instrument :  
BNA\_F  
ClientSampleId :  
PE-4(4.0-4.5)

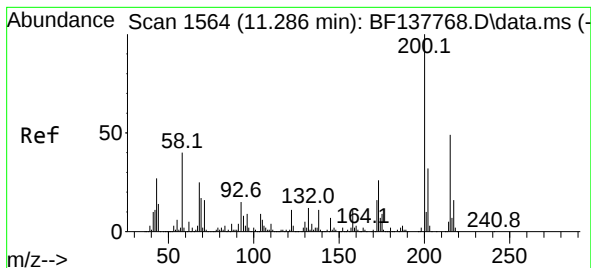
Tgt Ion:169 Resp: 39819  
Ion Ratio Lower Upper  
169 100  
168 40.6 53.3 79.9#  
167 37.3 29.2 43.8



#67  
4-Bromophenyl-phenylether  
Concen: 3.181 ng  
RT: 11.169 min Scan# 1544  
Delta R.T. 0.029 min  
Lab File: BF137841.D  
Acq: 06 May 2024 15:16

Tgt Ion:248 Resp: 5964  
Ion Ratio Lower Upper  
248 100  
250 106.6 79.1 118.7  
141 391.9 55.4 83.2#





#69

Atrazine

Concen: 5.801 ng

RT: 11.327 min Scan# 1

Delta R.T. 0.041 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

Instrument :

BNA\_F

ClientSampleId :

PE-4(4.0-4.5)

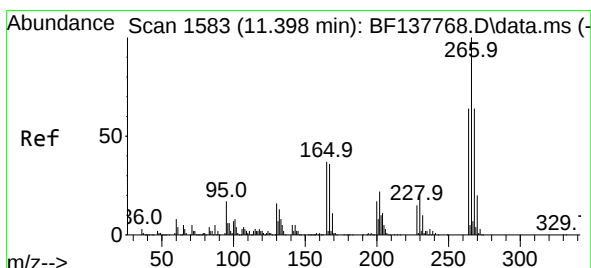
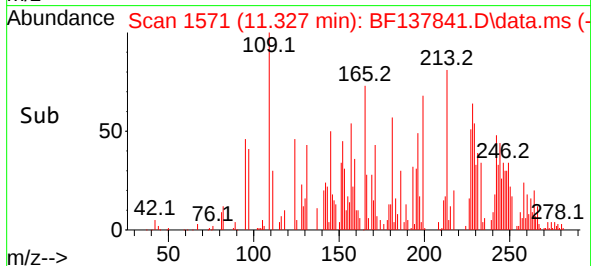
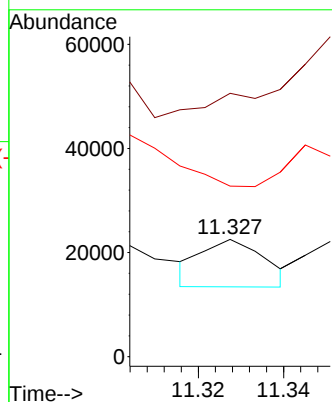
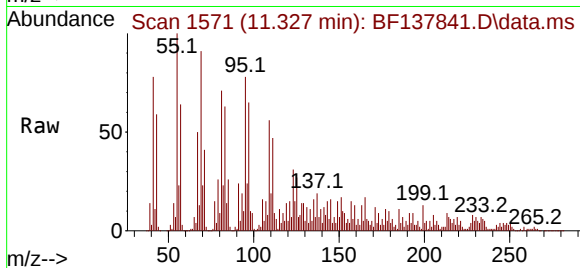
Tgt Ion:200 Resp: 9274

Ion Ratio Lower Upper

200 100

173 224.5 5.9 45.9#

215 145.3 28.8 68.8#



#70

Pentachlorophenol

Concen: 13.965 ng

RT: 11.469 min Scan# 1595

Delta R.T. 0.071 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

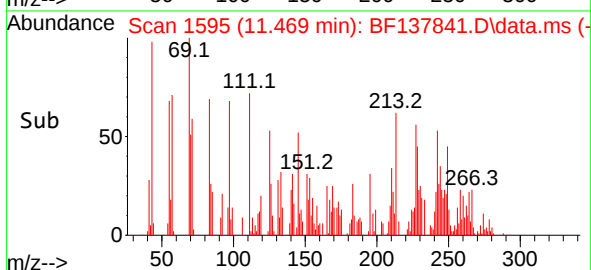
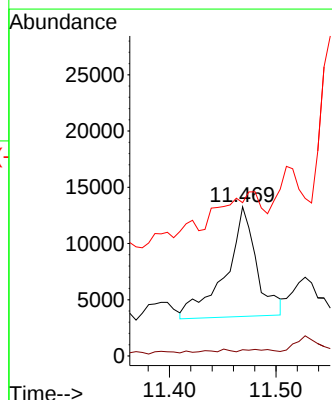
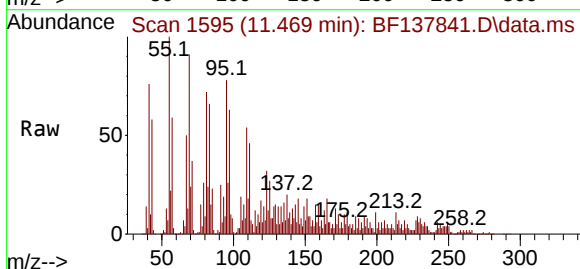
Tgt Ion:266 Resp: 19642

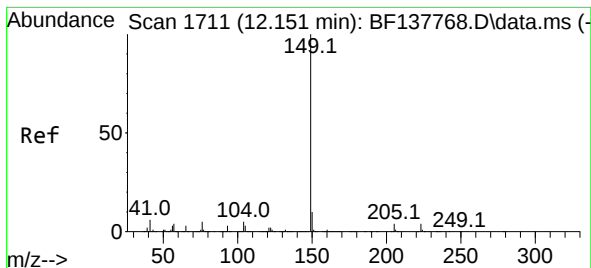
Ion Ratio Lower Upper

266 100

268 4.2 51.3 76.9#

264 102.8 51.0 76.4#





#74

Di-n-butylphthalate

Concen: 3.765 ng

RT: 12.174 min Scan# 1

Delta R.T. 0.023 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

Instrument :

BNA\_F

ClientSampleId :

PE-4(4.0-4.5)

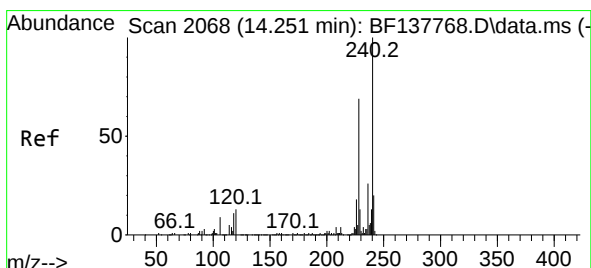
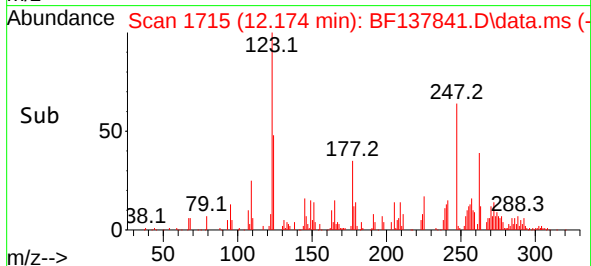
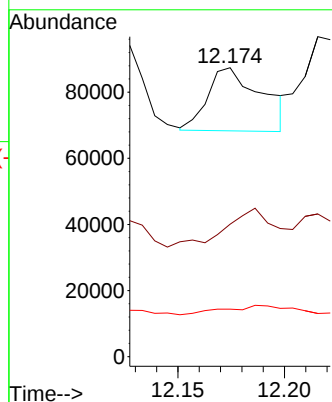
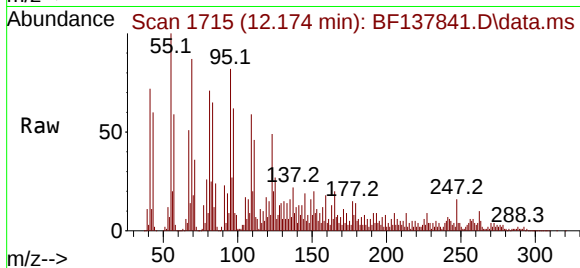
Tgt Ion:149 Resp: 33629

Ion Ratio Lower Upper

149 100

150 45.9 7.7 11.5#

104 16.4 3.8 5.8#



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.274 min Scan# 2072

Delta R.T. 0.023 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

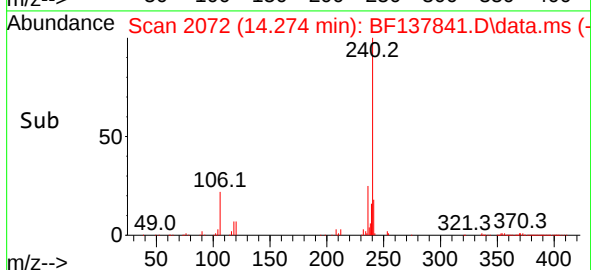
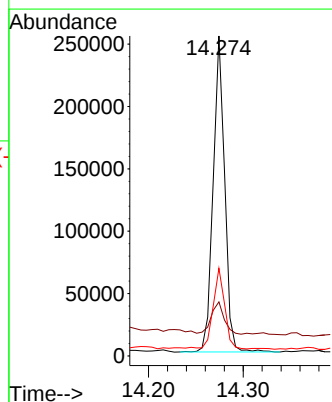
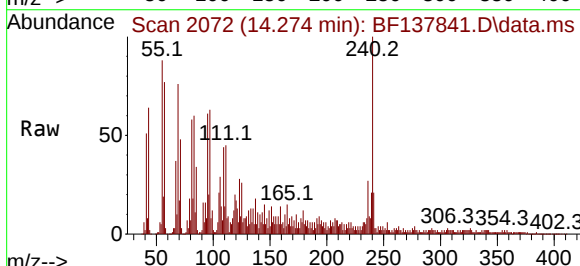
Tgt Ion:240 Resp: 214641

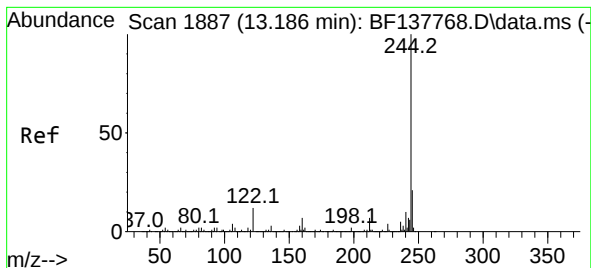
Ion Ratio Lower Upper

240 100

120 16.9 10.4 15.6#

236 27.4 20.4 30.6





#79

Terphenyl-d14

Concen: 41.395 ng

RT: 13.221 min Scan# 1887

Delta R.T. 0.035 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

Instrument :

BNA\_F

ClientSampleId :

PE-4(4.0-4.5)

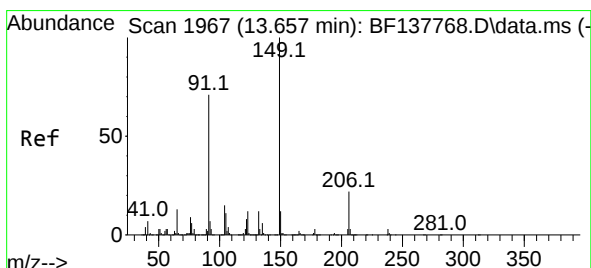
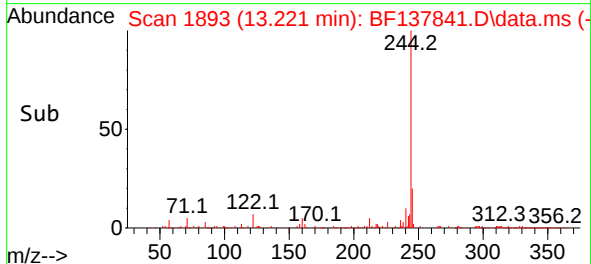
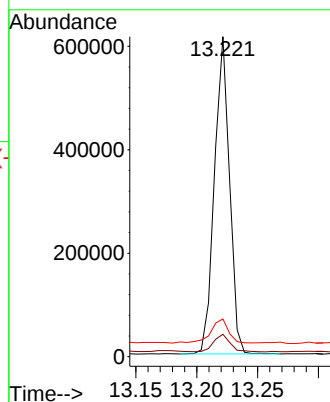
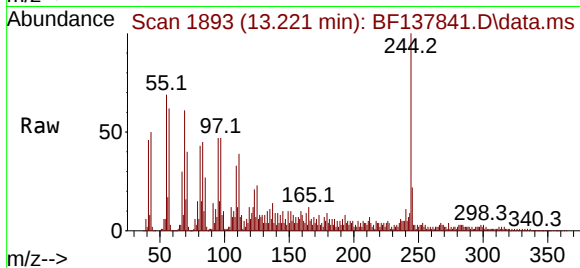
Tgt Ion:244 Resp: 530183

Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 11.8 9.4 14.2



#80

Butylbenzylphthalate

Concen: 2.159 ng

RT: 13.657 min Scan# 1967

Delta R.T. -0.000 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

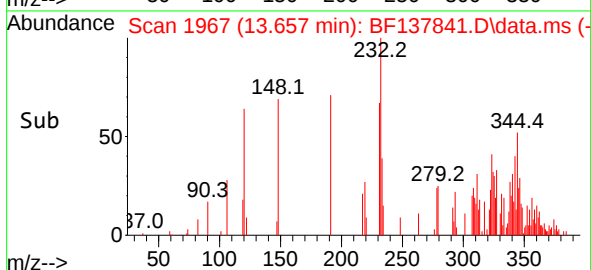
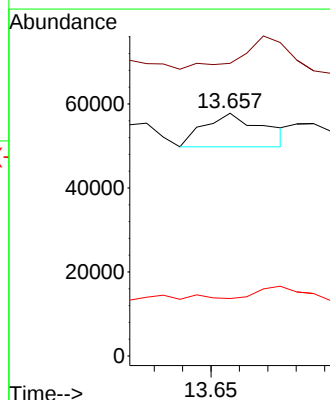
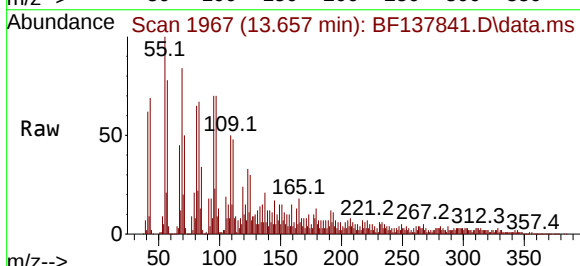
Tgt Ion:149 Resp: 11657

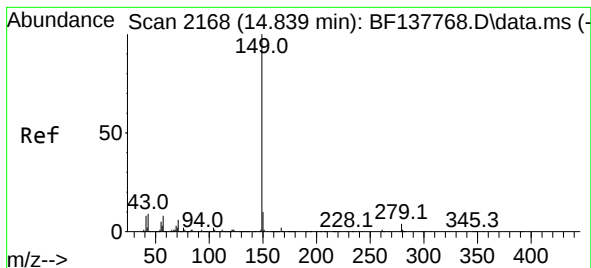
Ion Ratio Lower Upper

149 100

91 120.5 56.8 85.2#

206 23.6 17.8 26.8





#85

Di-n-octyl phthalate

Concen: 2.403 ng

RT: 14.880 min Scan# 2168

Delta R.T. 0.041 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

Instrument :

BNA\_F

ClientSampleId :

PE-4(4.0-4.5)

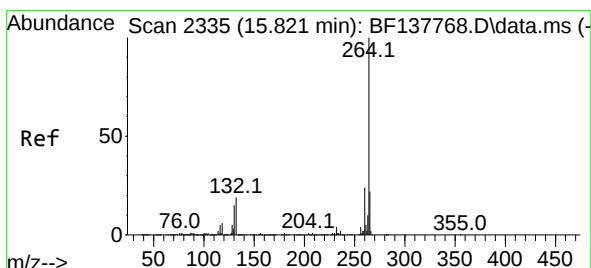
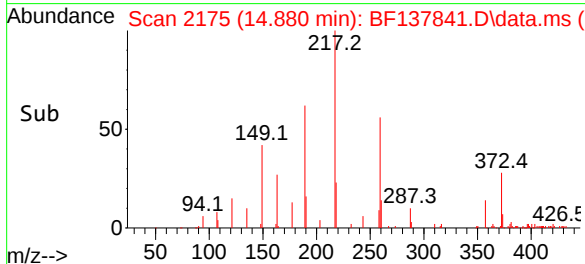
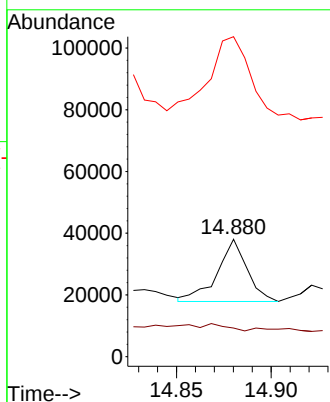
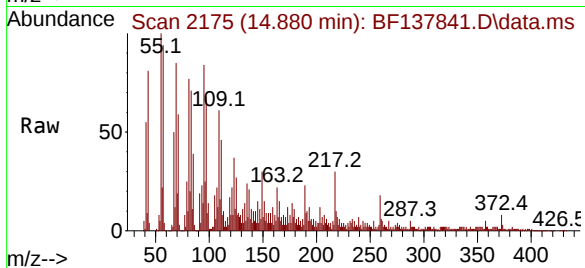
Tgt Ion:149 Resp: 22003

Ion Ratio Lower Upper

149 100

167 0.0 1.3 1.9#

43 179.7 7.5 11.3#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.827 min Scan# 2336

Delta R.T. 0.006 min

Lab File: BF137841.D

Acq: 06 May 2024 15:16

Tgt Ion:264 Resp: 256583

Ion Ratio Lower Upper

264 100

260 23.2 18.9 28.3

265 21.4 17.4 26.0

