

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF093021\  
 Data File : BF125739.D  
 Acq On : 30 Sep 2021 18:11  
 Operator : JU/CG  
 Sample : M3988-01 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-092921

Quant Time: Sep 30 18:37:51 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092421.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 24 15:38:32 2021  
 Response via : Initial Calibration

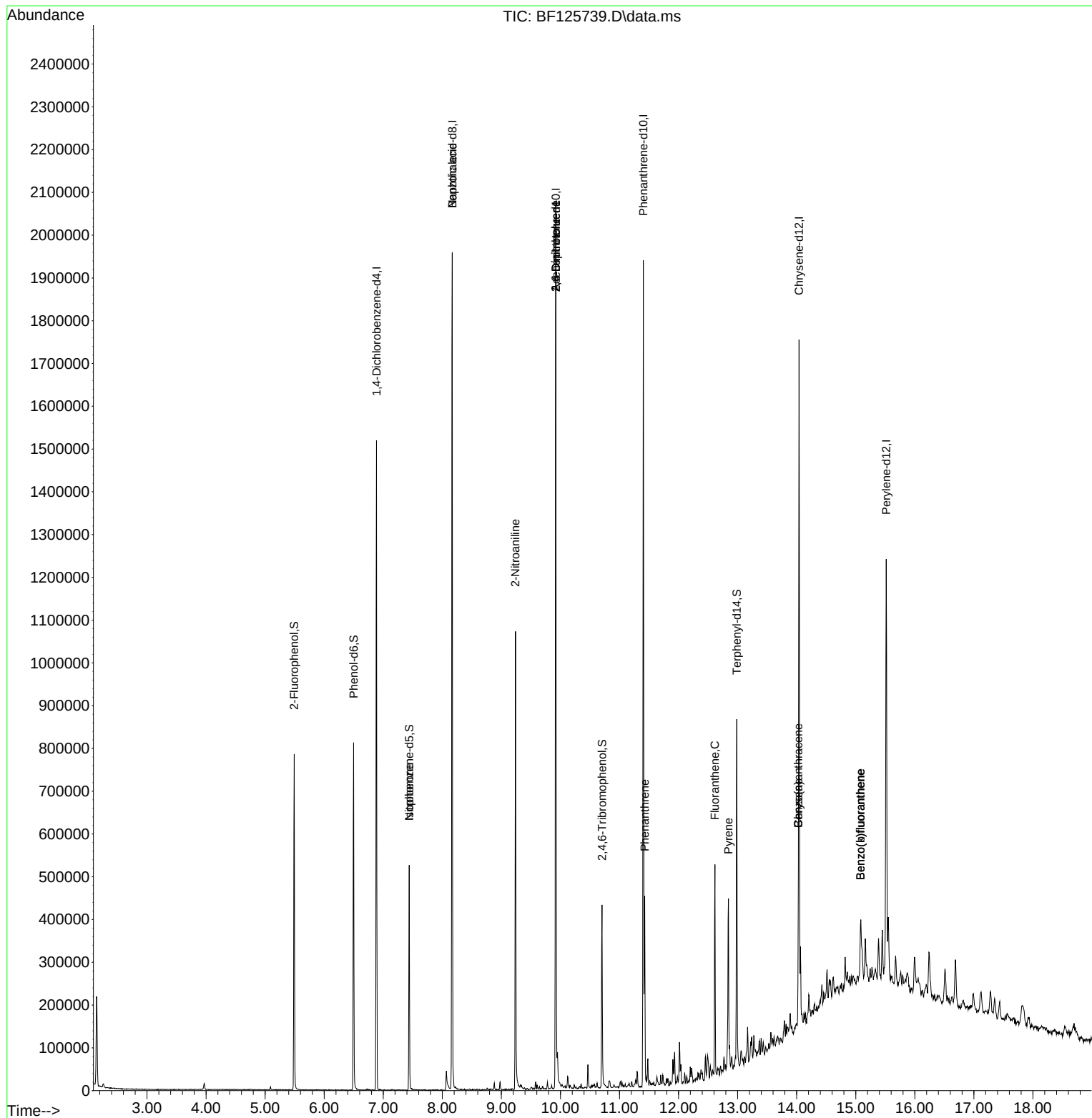
| Compound                    | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-----------|--------|----------|
| -----                       |        |      |          |           |        |          |
| Internal Standards          |        |      |          |           |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.886  | 152  | 221219   | 20.000    | ng     | 0.00     |
| 21) Naphthalene-d8          | 8.169  | 136  | 904232   | 20.000    | ng     | # 0.00   |
| 39) Acenaphthene-d10        | 9.922  | 164  | 447777   | 20.000    | ng     | 0.00     |
| 64) Phenanthrene-d10        | 11.404 | 188  | 664217   | 20.000    | ng     | 0.00     |
| 76) Chrysene-d12            | 14.039 | 240  | 500565   | 20.000    | ng     | 0.00     |
| 86) Perylene-d12            | 15.515 | 264  | 449384   | 20.000    | ng     | 0.00     |
|                             |        |      |          |           |        |          |
| System Monitoring Compounds |        |      |          |           |        |          |
| 5) 2-Fluorophenol           | 5.492  | 112  | 228002   | 16.981    | ng     | -0.01    |
| 7) Phenol-d6                | 6.498  | 99   | 276457   | 15.315    | ng     | -0.01    |
| 23) Nitrobenzene-d5         | 7.439  | 82   | 149052   | 11.498    | ng     | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.704 | 330  | 53772    | 12.880    | ng     | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.239  | 172  | 325585   | -0.371    | ng     | -0.01    |
| 79) Terphenyl-d14           | 12.986 | 244  | 256777   | 8.883     | ng     | 0.00     |
|                             |        |      |          |           |        |          |
| Target Compounds            |        |      |          |           | Qvalue |          |
| 9) Benzaldehyde             | 6.492  | 77   | 164      | Below Cal | #      | 1        |
| 25) Isophorone              | 7.439  | 82   | 149077   | 5.135     | ng     | # 59     |
| 32) Benzoic acid            | 8.169  | 122  | 109      | 8.637     | ng     | # 1      |
| 48) 2-Nitroaniline          | 9.239  | 65   | 246      | 4.192     | ng     | # 1      |
| 51) 2,6-Dinitrotoluene      | 9.922  | 165  | 57566    | 12.681    | ng     | # 27     |
| 57) 2,4-Dinitrotoluene      | 9.922  | 165  | 58251    | 11.642    | ng     | # 19     |
| 71) Phenanthrene            | 11.427 | 178  | 146771   | 3.940     | ng     | 100      |
| 75) Fluoranthene            | 12.615 | 202  | 180791   | 4.542     | ng     | 99       |
| 78) Pyrene                  | 12.845 | 202  | 162833   | 3.600     | ng     | 99       |
| 81) Benzo(a)anthracene      | 14.027 | 228  | 72612    | 2.135     | ng     | 96       |
| 83) Chrysene                | 14.027 | 228  | 72612    | 2.128     | ng     | 98       |
| 88) Benzo(b)fluoranthene    | 15.080 | 252  | 105064   | 3.337     | ng     | # 92     |
| 89) Benzo(k)fluoranthene    | 15.080 | 252  | 105064   | 3.483     | ng     | # 91     |
| -----                       |        |      |          |           |        |          |

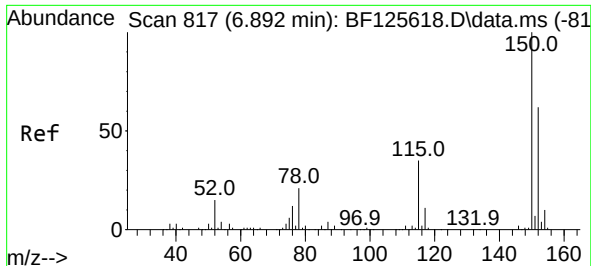
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF093021\  
Data File : BF125739.D  
Acq On : 30 Sep 2021 18:11  
Operator : JU/CG  
Sample : M3988-01 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

Quant Time: Sep 30 18:37:51 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092421.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 24 15:38:32 2021  
Response via : Initial Calibration

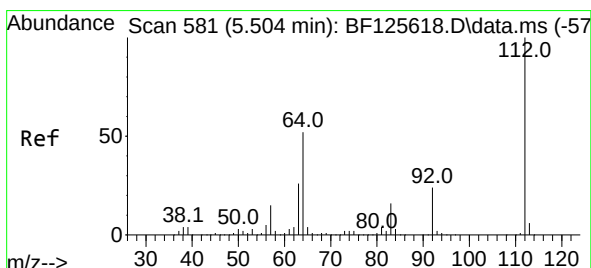
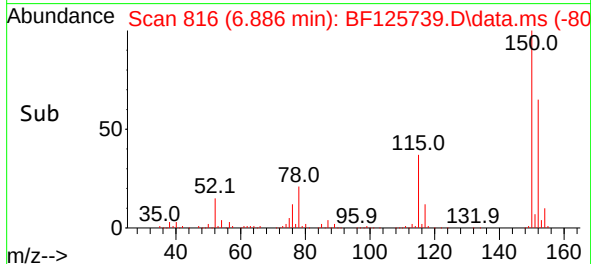
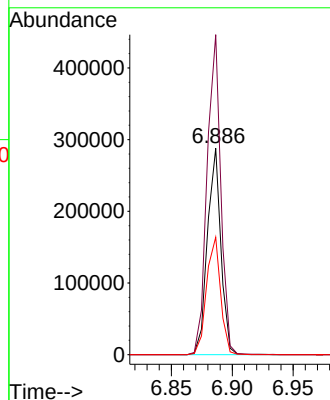
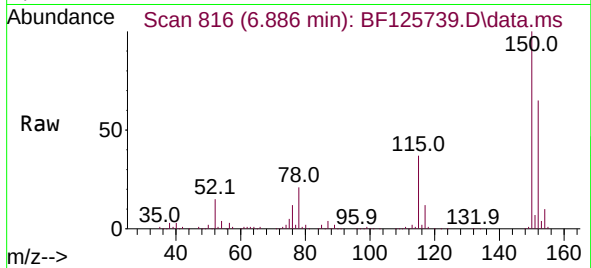




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.886 min Scan# 816  
Delta R.T. -0.006 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

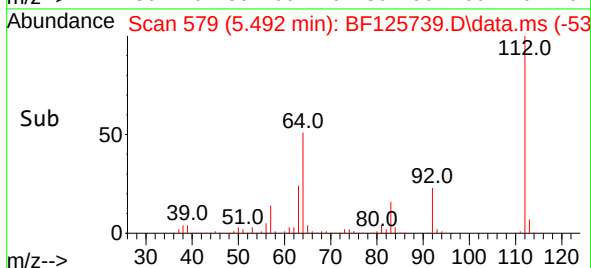
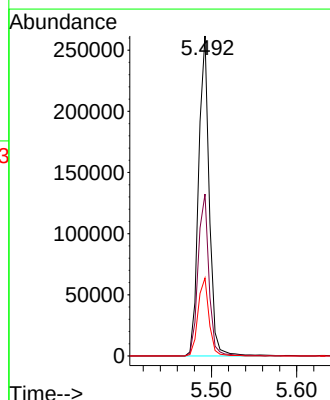
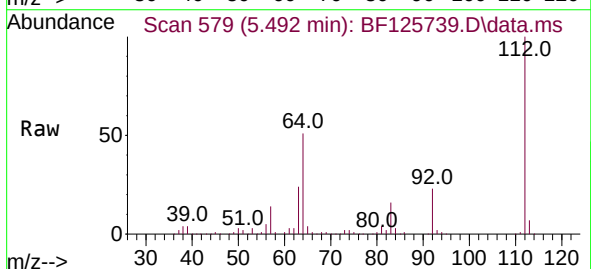
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ClientSampleId :  
OR-03-092921

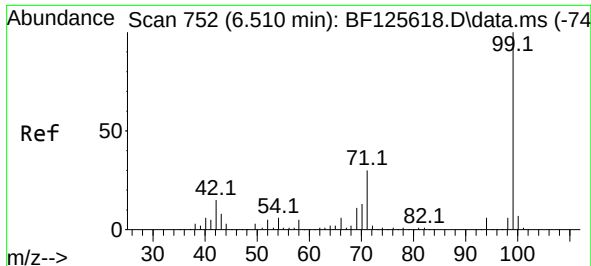
Tgt Ion:152 Resp: 221219  
Ion Ratio Lower Upper  
152 100  
150 155.0 117.6 176.4  
115 56.9 47.1 70.7



#5  
2-Fluorophenol  
Concen: 16.981 ng  
RT: 5.492 min Scan# 579  
Delta R.T. -0.012 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion:112 Resp: 228002  
Ion Ratio Lower Upper  
112 100  
64 50.6 44.2 66.2  
63 24.3 26.2 39.2#

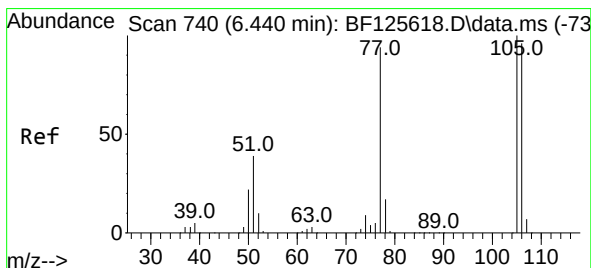
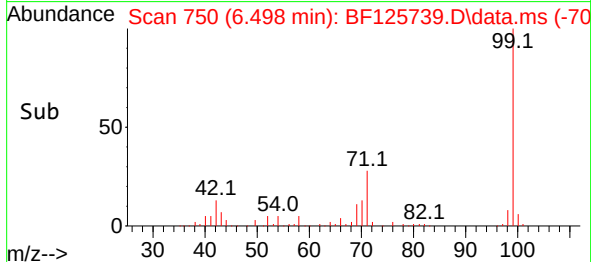
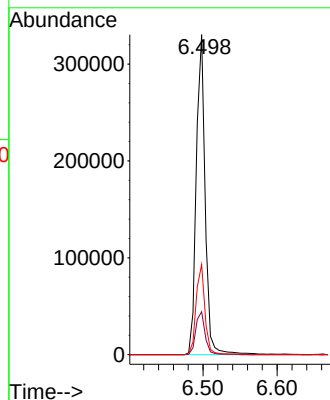
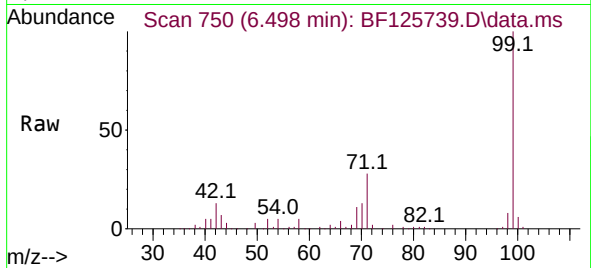




#7  
Phenol-d6  
Concen: 15.315 ng  
RT: 6.498 min Scan# 750  
Delta R.T. -0.012 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

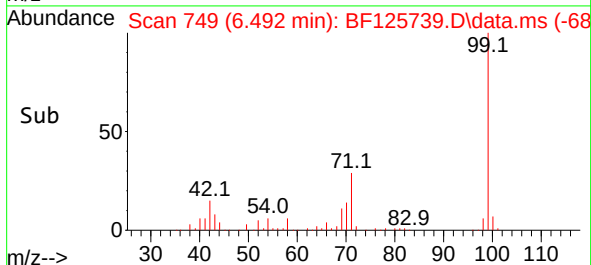
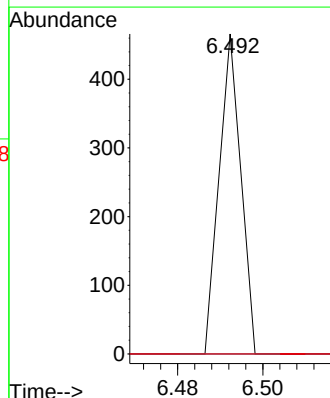
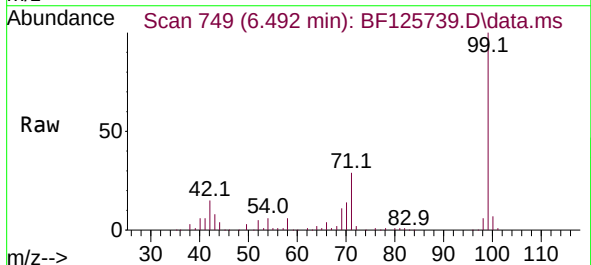
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

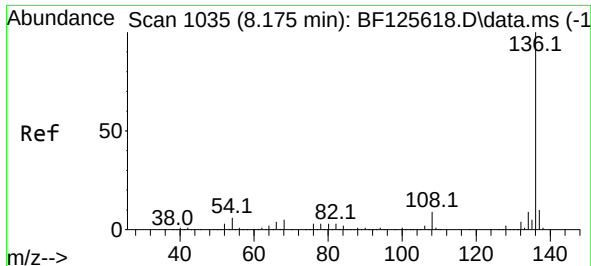
Tgt Ion: 99 Resp: 276457  
Ion Ratio Lower Upper  
99 100  
42 13.4 23.5 35.3#  
71 28.2 25.6 38.4



#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.492 min Scan# 749  
Delta R.T. 0.052 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

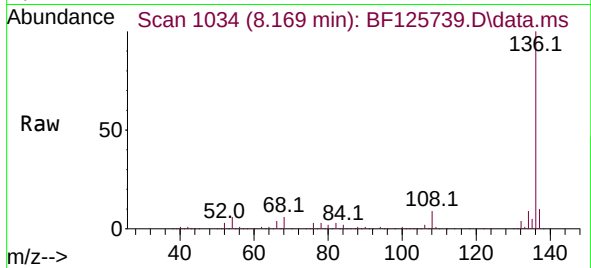
Tgt Ion: 77 Resp: 164  
Ion Ratio Lower Upper  
77 100  
105 0.0 75.9 115.9#  
106 0.0 84.0 124.0#



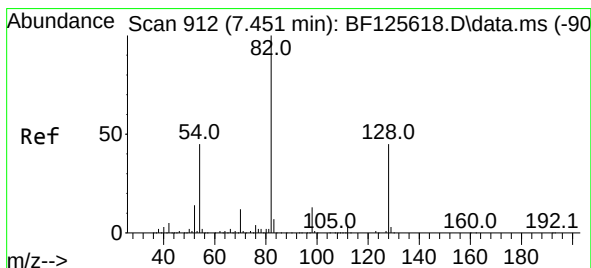
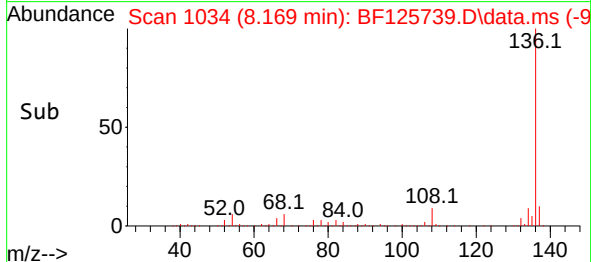
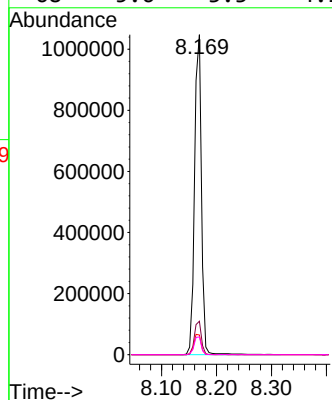


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1034  
Delta R.T. -0.006 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

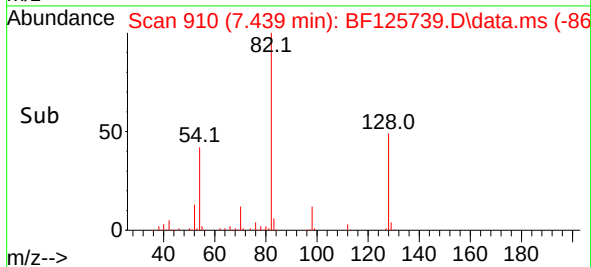
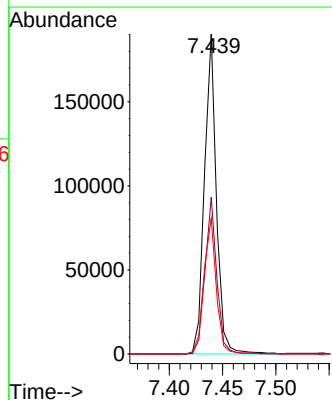
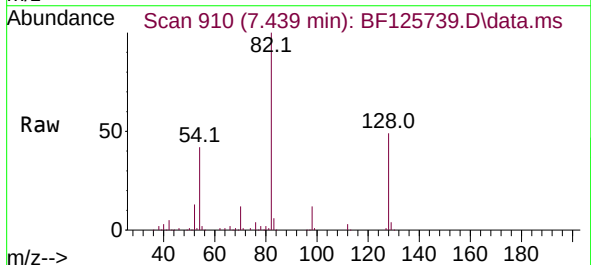


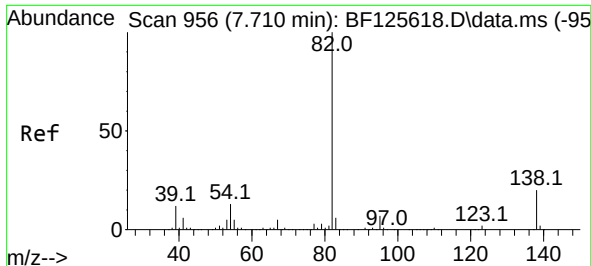
Tgt Ion:136 Resp: 904232  
Ion Ratio Lower Upper  
136 100  
137 10.4 9.8 14.6  
54 6.1 6.4 9.6#  
68 5.6 3.3 4.9#



#23  
Nitrobenzene-d5  
Concen: 11.498 ng  
RT: 7.439 min Scan# 910  
Delta R.T. -0.012 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion: 82 Resp: 149052  
Ion Ratio Lower Upper  
82 100  
128 48.9 40.6 60.8  
54 42.4 49.6 74.4#

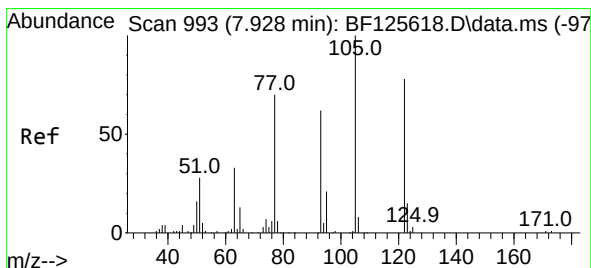
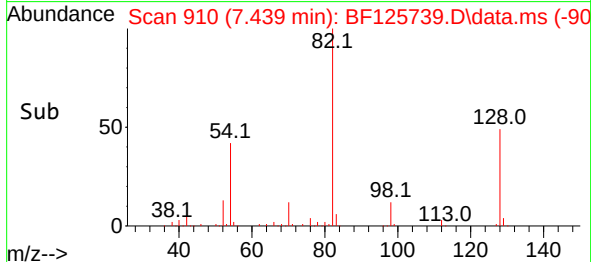
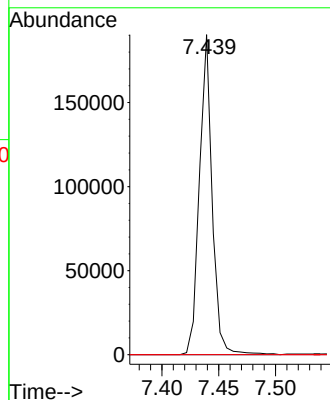
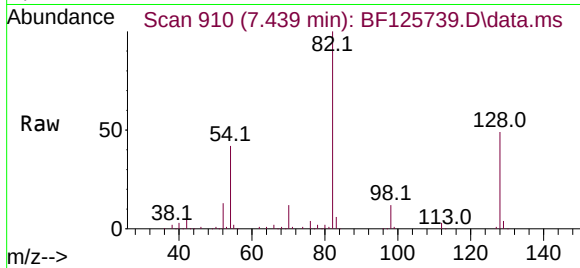




#25  
Isophorone  
Concen: 5.135 ng  
RT: 7.439 min Scan# 910  
Delta R.T. -0.271 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

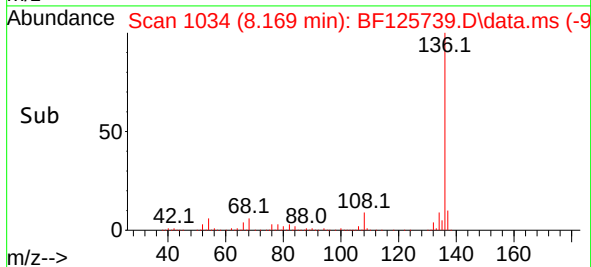
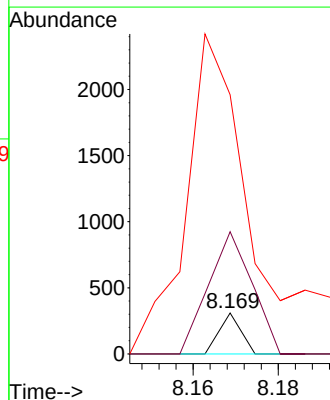
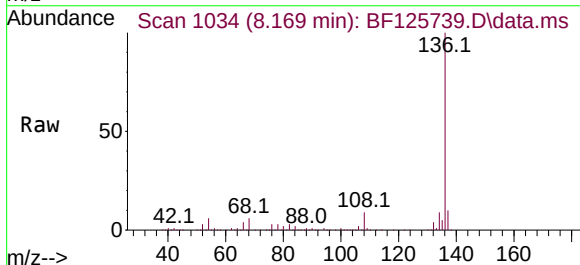
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OR-03-092921

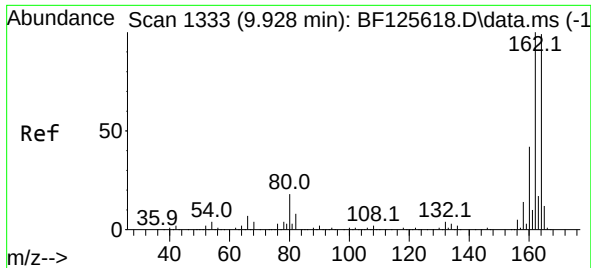
Tgt Ion: 82 Resp: 149077  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.5 9.7#  
138 0.0 18.4 27.6#



#32  
Benzoic acid  
Concen: 8.637 ng  
RT: 8.169 min Scan# 1034  
Delta R.T. 0.241 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion:122 Resp: 109  
Ion Ratio Lower Upper  
122 100  
105 299.0 97.6 137.6#  
77 634.3 59.6 99.6#

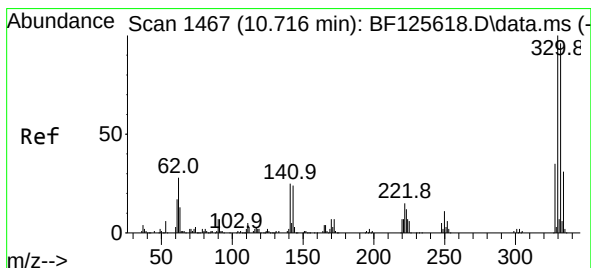
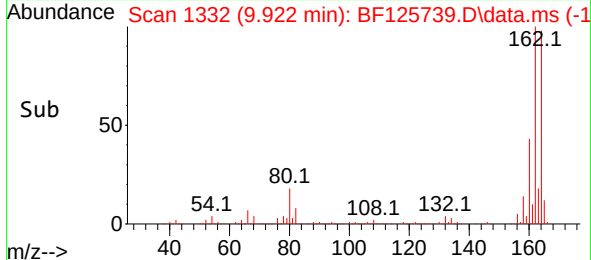
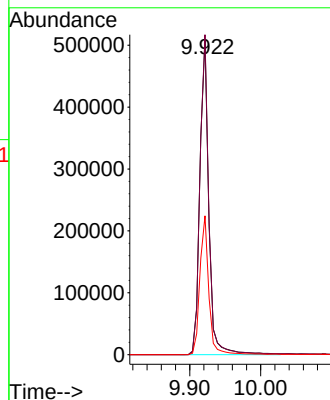
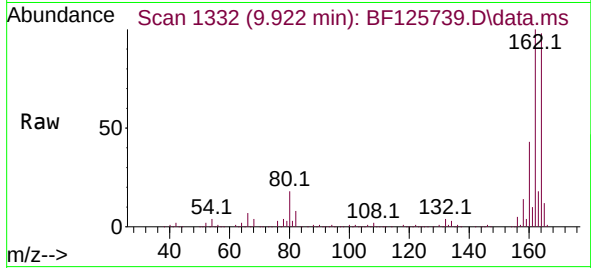




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1332  
Delta R.T. -0.007 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

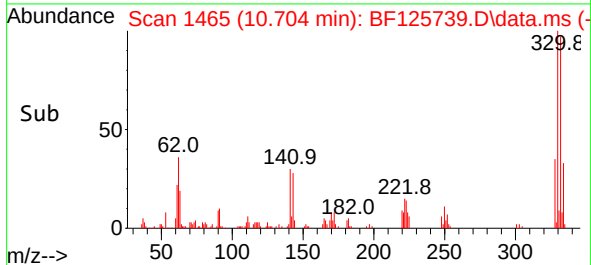
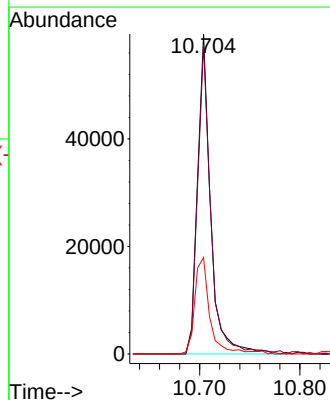
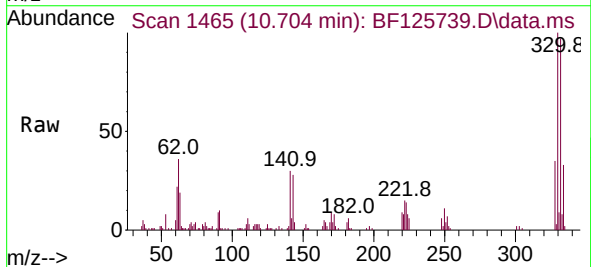
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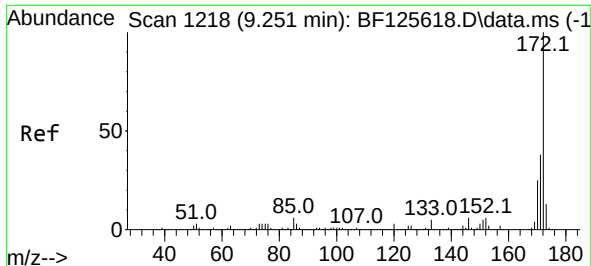
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|-------------|------------------|
| Tgt Ion:164 | Resp: 447777     |
| Ion Ratio   | Lower Upper      |
| 164         | 100              |
| 162         | 101.7 81.3 121.9 |
| 160         | 44.1 38.0 57.0   |



#42  
2,4,6-Tribromophenol  
Concen: 12.880 ng  
RT: 10.704 min Scan# 1465  
Delta R.T. -0.012 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

|             |                 |
|-------------|-----------------|
| Tgt Ion:330 | Resp: 53772     |
| Ion Ratio   | Lower Upper     |
| 330         | 100             |
| 332         | 97.6 76.2 114.4 |
| 141         | 35.1 44.6 66.8# |

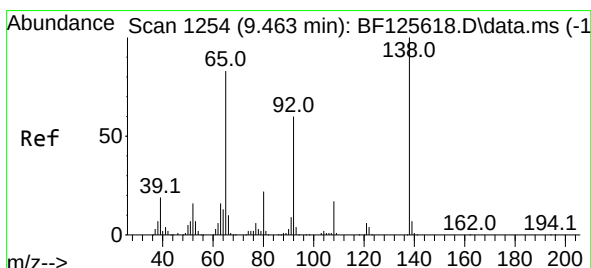
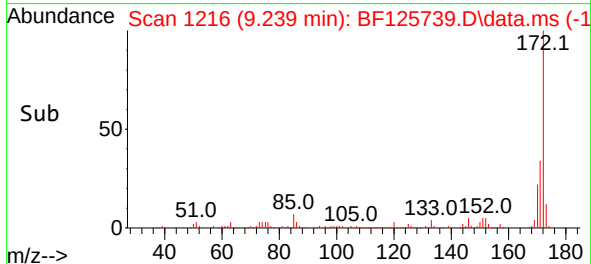
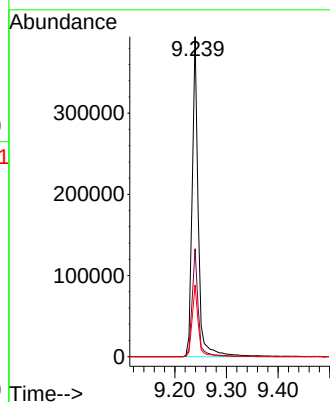
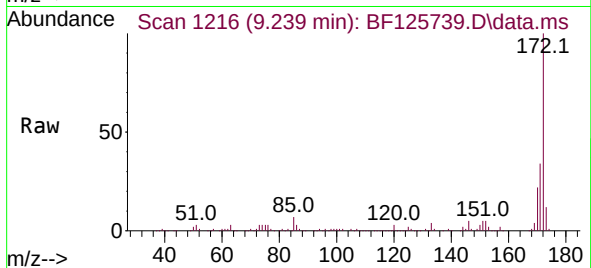




#45  
2-Fluorobiphenyl  
Concen: -0.371 ng  
RT: 9.239 min Scan# 1216  
Delta R.T. -0.012 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

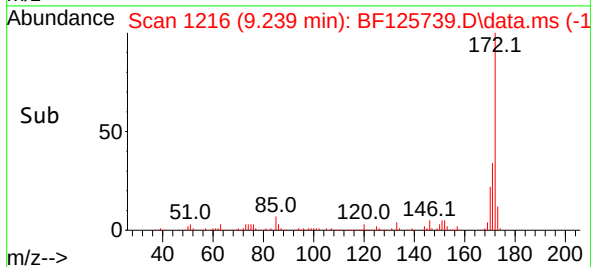
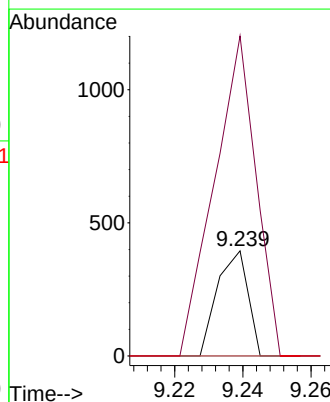
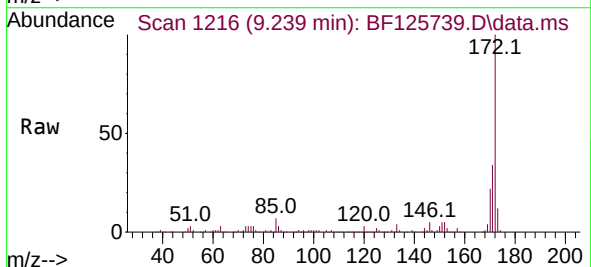
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

Tgt Ion:172 Resp: 325585  
Ion Ratio Lower Upper  
172 100  
171 33.8 26.5 39.7  
170 22.4 18.8 28.2

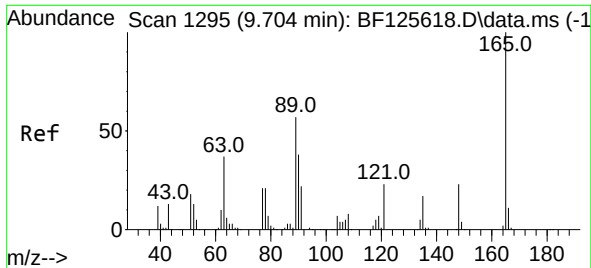


#48  
2-Nitroaniline  
Concen: 4.192 ng  
RT: 9.239 min Scan# 1216  
Delta R.T. -0.224 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion: 65 Resp: 246  
Ion Ratio Lower Upper  
65 100  
92 304.3 55.5 83.3#  
138 0.0 93.5 140.3#



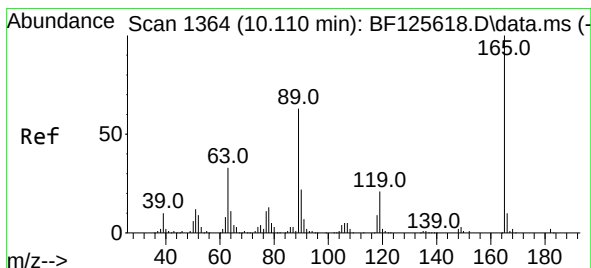
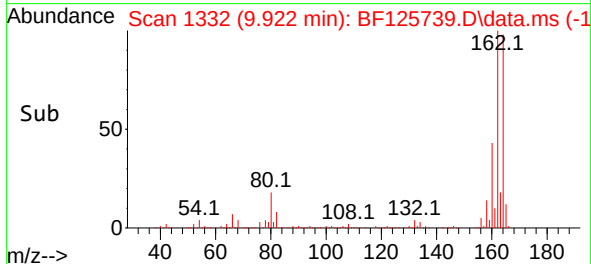
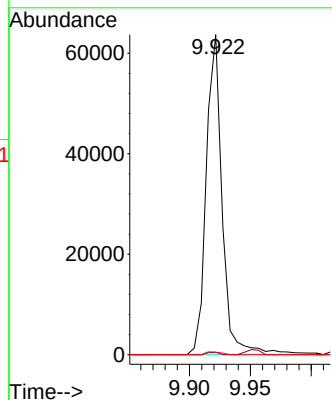
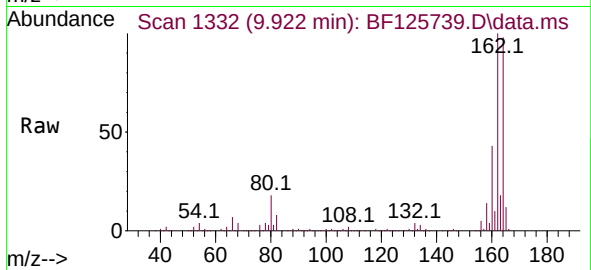




#51  
2,6-Dinitrotoluene  
Concen: 12.681 ng  
RT: 9.922 min Scan# 1332  
Delta R.T. 0.217 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

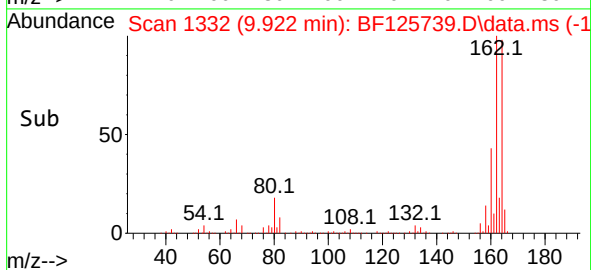
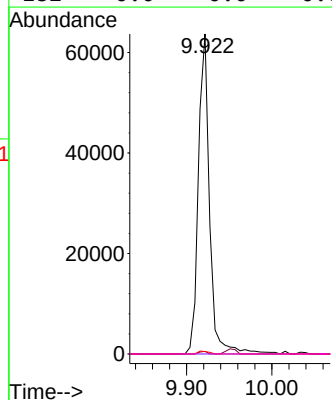
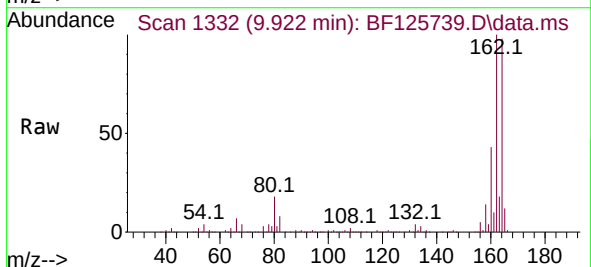
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

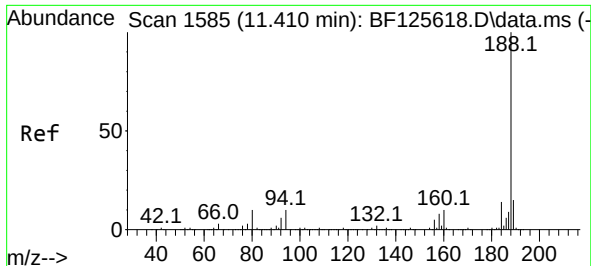
Tgt Ion:165 Resp: 57566  
Ion Ratio Lower Upper  
165 100  
63 0.8 42.6 63.8#  
89 0.7 40.6 60.8#



#57  
2,4-Dinitrotoluene  
Concen: 11.642 ng  
RT: 9.922 min Scan# 1332  
Delta R.T. -0.188 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion:165 Resp: 58251  
Ion Ratio Lower Upper  
165 100  
63 0.8 40.9 61.3#  
89 0.7 59.7 89.5#  
182 0.0 0.0 0.0

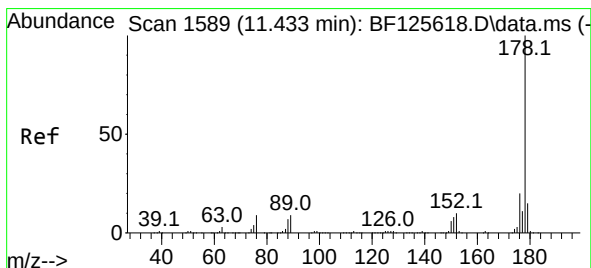
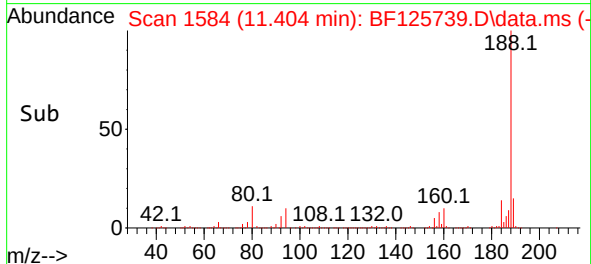
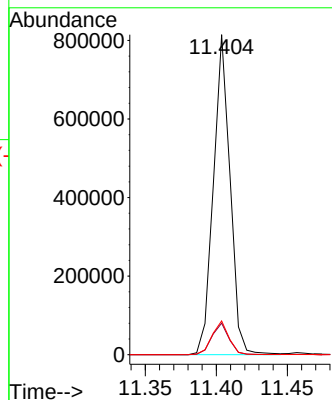
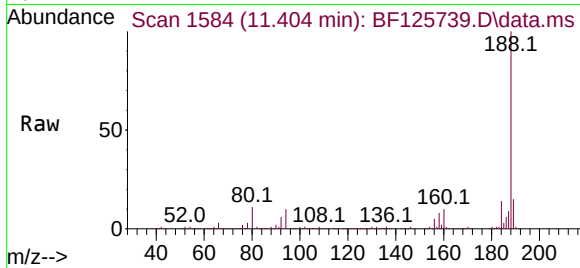




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.404 min Scan# 1584  
Delta R.T. -0.006 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

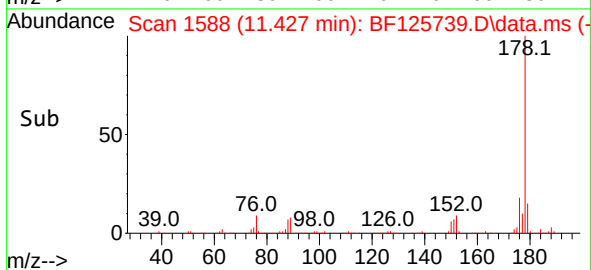
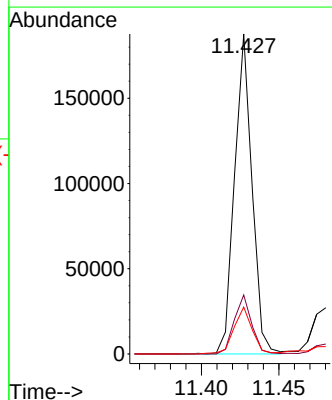
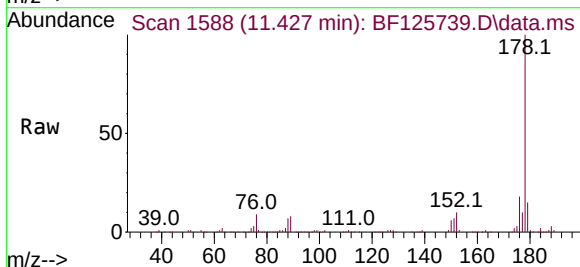
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

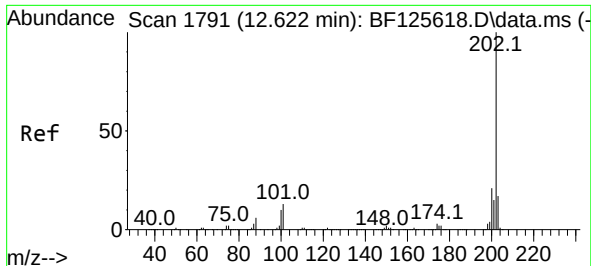
Tgt Ion:188 Resp: 664217  
Ion Ratio Lower Upper  
188 100  
94 9.8 6.7 10.1  
80 10.6 7.5 11.3



#71  
Phenanthrene  
Concen: 3.940 ng  
RT: 11.427 min Scan# 1588  
Delta R.T. -0.006 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion:178 Resp: 146771  
Ion Ratio Lower Upper  
178 100  
176 18.5 14.7 22.1  
179 14.7 11.5 17.3

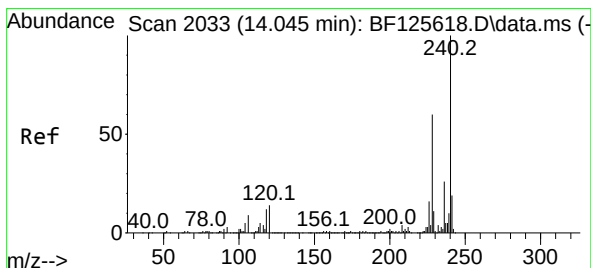
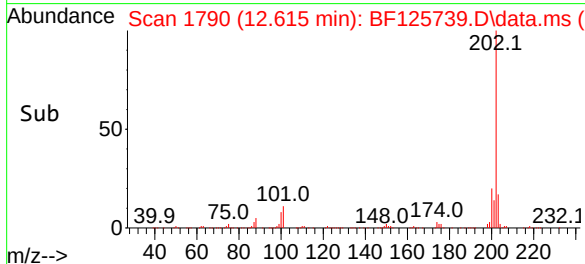
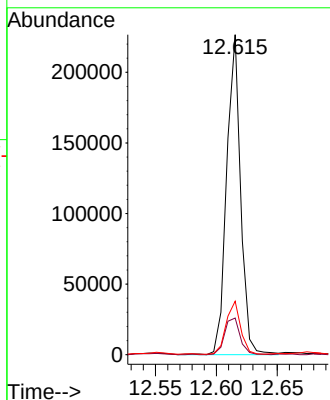
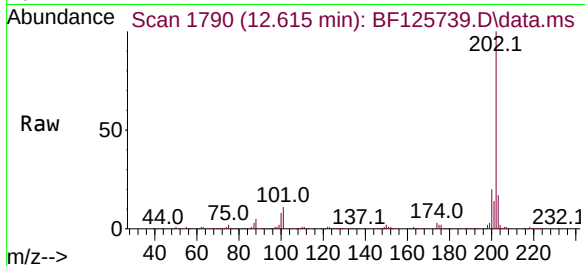




#75  
Fluoranthene  
Concen: 4.542 ng  
RT: 12.615 min Scan# 1790  
Delta R.T. -0.007 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

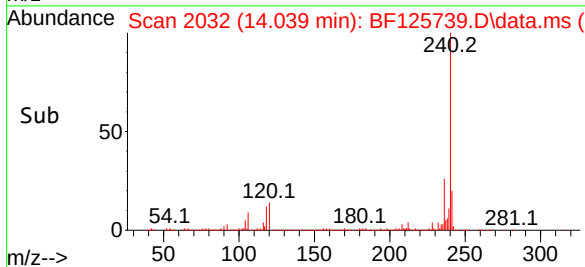
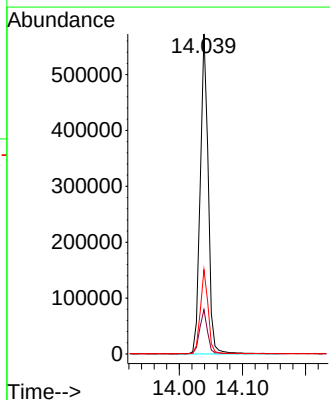
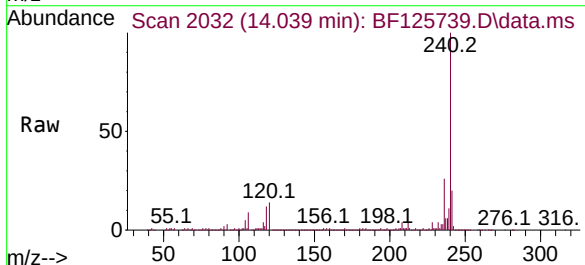
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

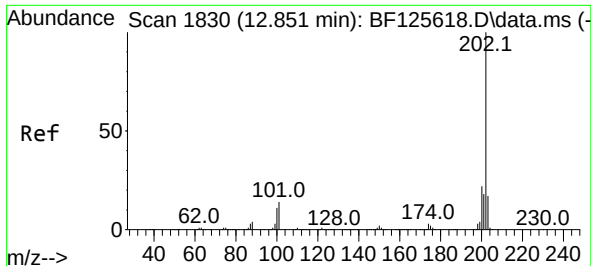
Tgt Ion:202 Resp: 180791  
Ion Ratio Lower Upper  
202 100  
101 11.4 0.0 30.7  
203 16.7 0.0 36.3



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. -0.006 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion:240 Resp: 500565  
Ion Ratio Lower Upper  
240 100  
120 13.9 10.8 16.2  
236 26.4 21.6 32.4

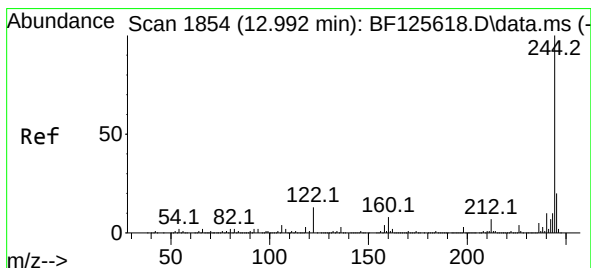
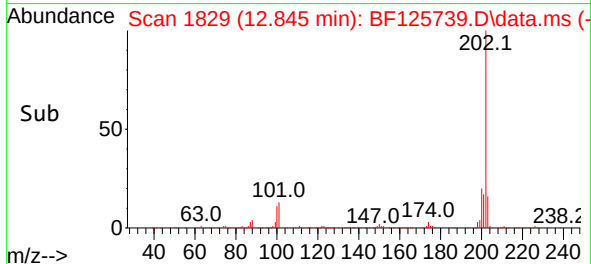
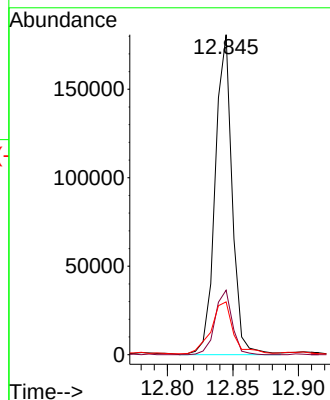
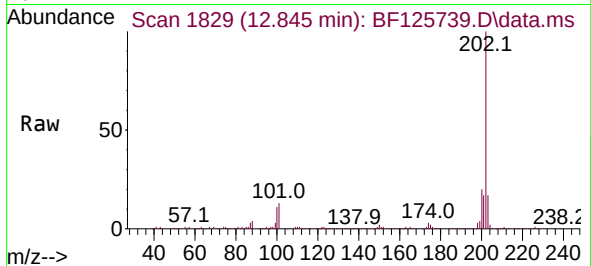




#78  
Pyrene  
Concen: 3.600 ng  
RT: 12.845 min Scan# 1829  
Delta R.T. -0.006 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

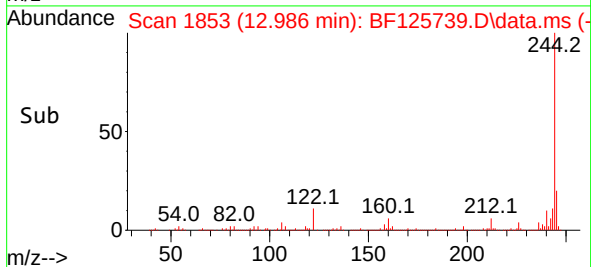
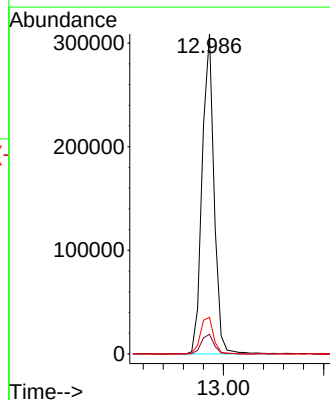
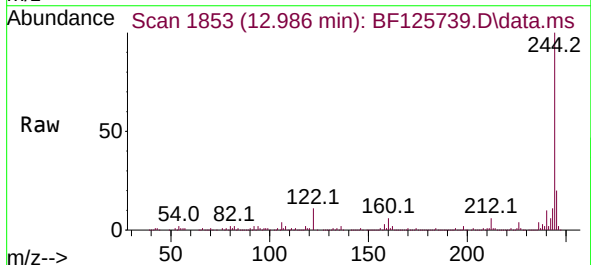
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

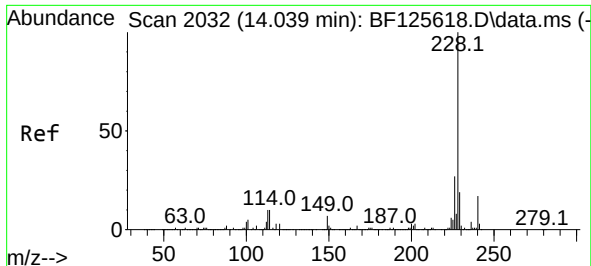
Tgt Ion:202 Resp: 162833  
Ion Ratio Lower Upper  
202 100  
200 20.2 15.3 22.9  
203 16.5 13.4 20.0



#79  
Terphenyl-d14  
Concen: 8.883 ng  
RT: 12.986 min Scan# 1853  
Delta R.T. -0.006 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion:244 Resp: 256777  
Ion Ratio Lower Upper  
244 100  
212 6.2 5.9 8.9  
122 11.4 9.0 13.4

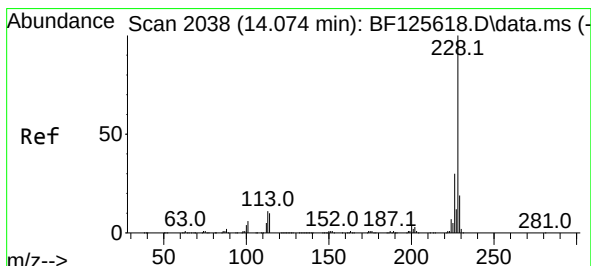
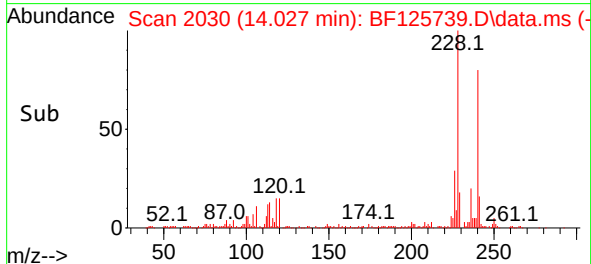
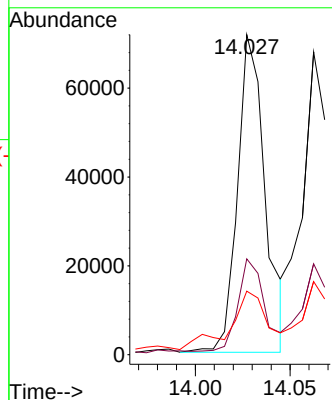
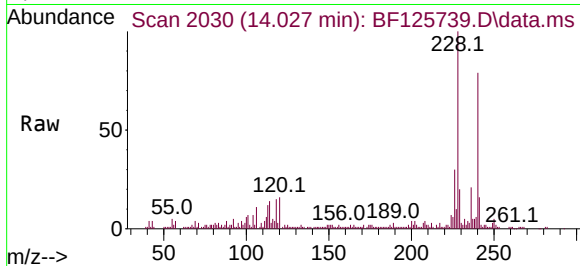




#81  
Benzo(a)anthracene  
Concen: 2.135 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. -0.012 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

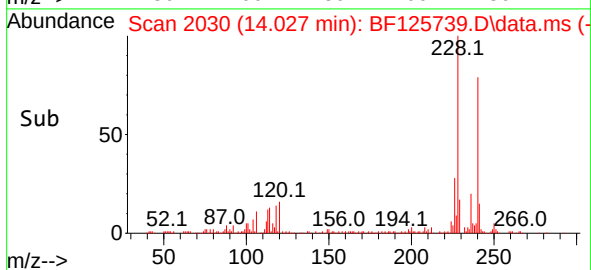
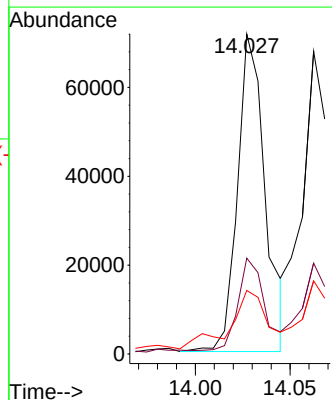
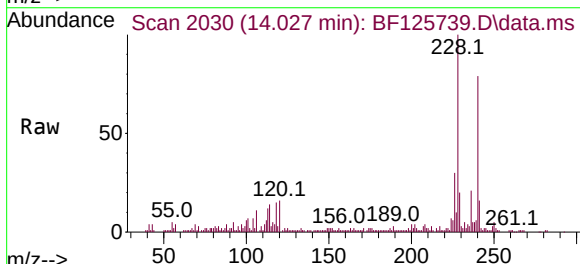
Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-092921

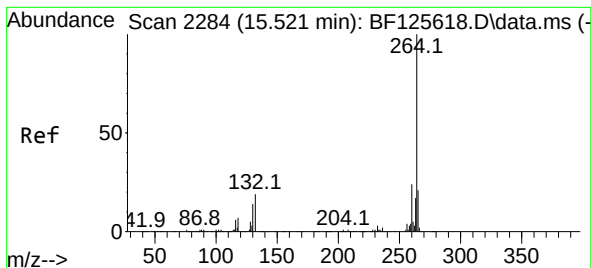
Tgt Ion:228 Resp: 72612  
Ion Ratio Lower Upper  
228 100  
226 30.0 21.6 32.4  
229 19.8 15.6 23.4



#83  
Chrysene  
Concen: 2.128 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. -0.047 min  
Lab File: BF125739.D  
Acq: 30 Sep 2021 18:11

Tgt Ion:228 Resp: 72612  
Ion Ratio Lower Upper  
228 100  
226 30.0 22.6 34.0  
229 19.8 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.515 min Scan# 2283

Delta R.T. -0.006 min

Lab File: BF125739.D

Acq: 30 Sep 2021 18:11

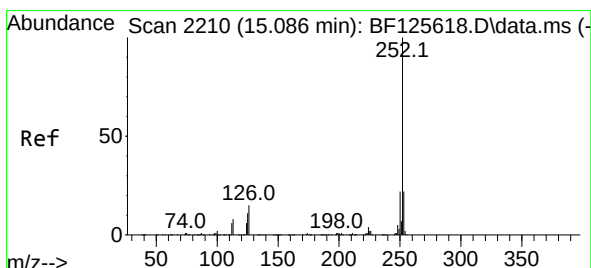
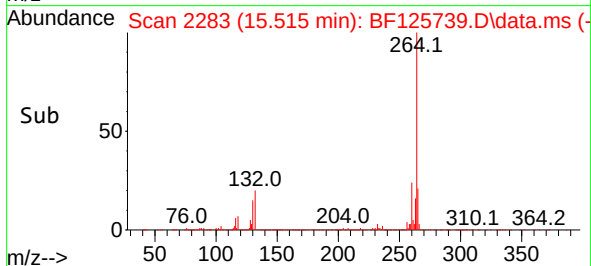
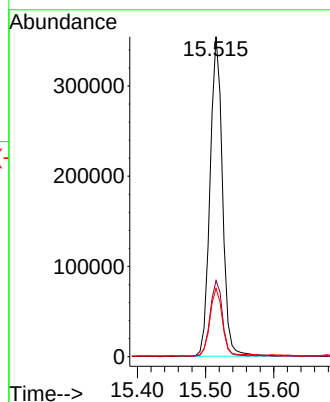
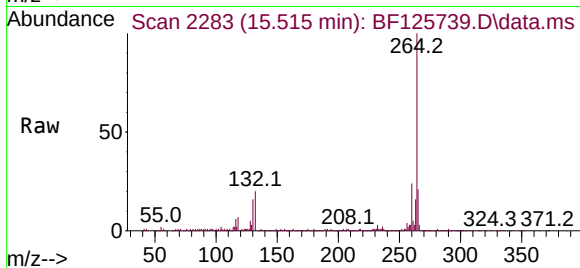
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 449384 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 19.6  | 29.4   |
| 265       | 21.4  | 17.2  | 25.8   |

Instrument :

BNA\_F

ClientSampleId :

OR-03-092921



#88

Benzo(b)fluoranthene

Concen: 3.337 ng

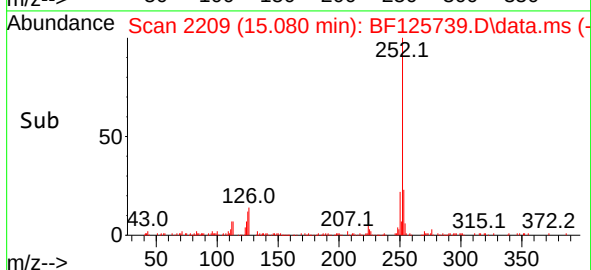
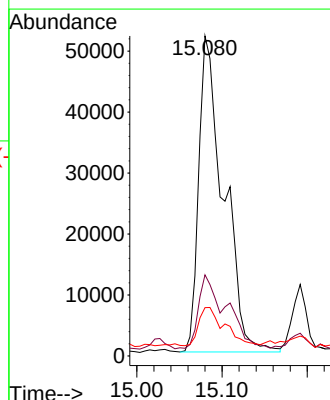
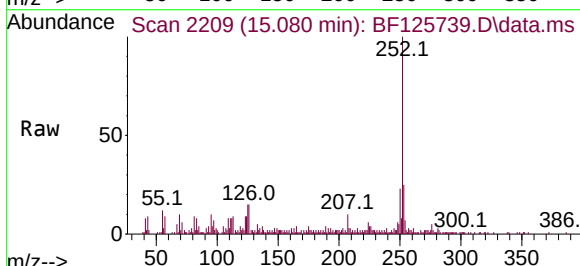
RT: 15.080 min Scan# 2209

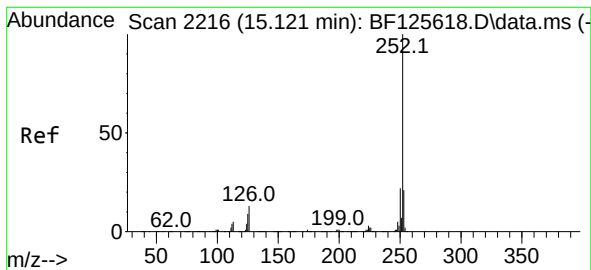
Delta R.T. -0.006 min

Lab File: BF125739.D

Acq: 30 Sep 2021 18:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 105064 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.3  | 16.8  | 25.2#  |
| 125       | 15.1  | 9.8   | 14.8#  |





#89

Benzo(k)fluoranthene

Concen: 3.483 ng

RT: 15.080 min Scan# 2209

Delta R.T. -0.041 min

Lab File: BF125739.D

Acq: 30 Sep 2021 18:11

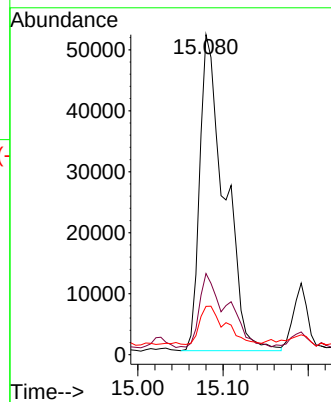
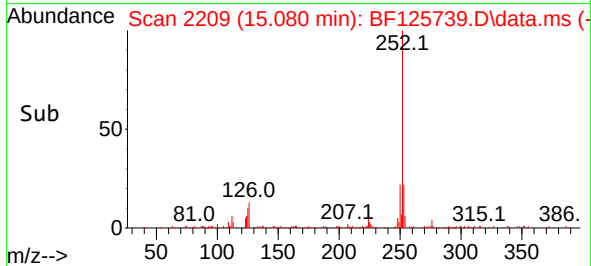
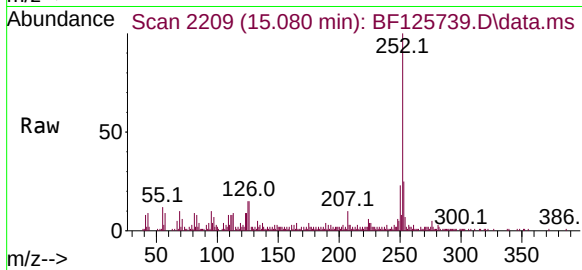
Tgt Ion:252 Resp: 105064

Ion Ratio Lower Upper

252 100

253 25.3 17.8 26.8

125 15.1 7.2 10.8#



Instrument :

BNA\_F

ClientSampleId :

OR-03-092921