

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032621\  
 Data File : BF123497.D  
 Acq On : 26 Mar 2021 21:08  
 Operator : JU/CG  
 Sample : M1793-01DL 25X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-032421DL

Quant Time: Mar 26 22:59:32 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF032321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 26 12:51:59 2021  
 Response via : Initial Calibration

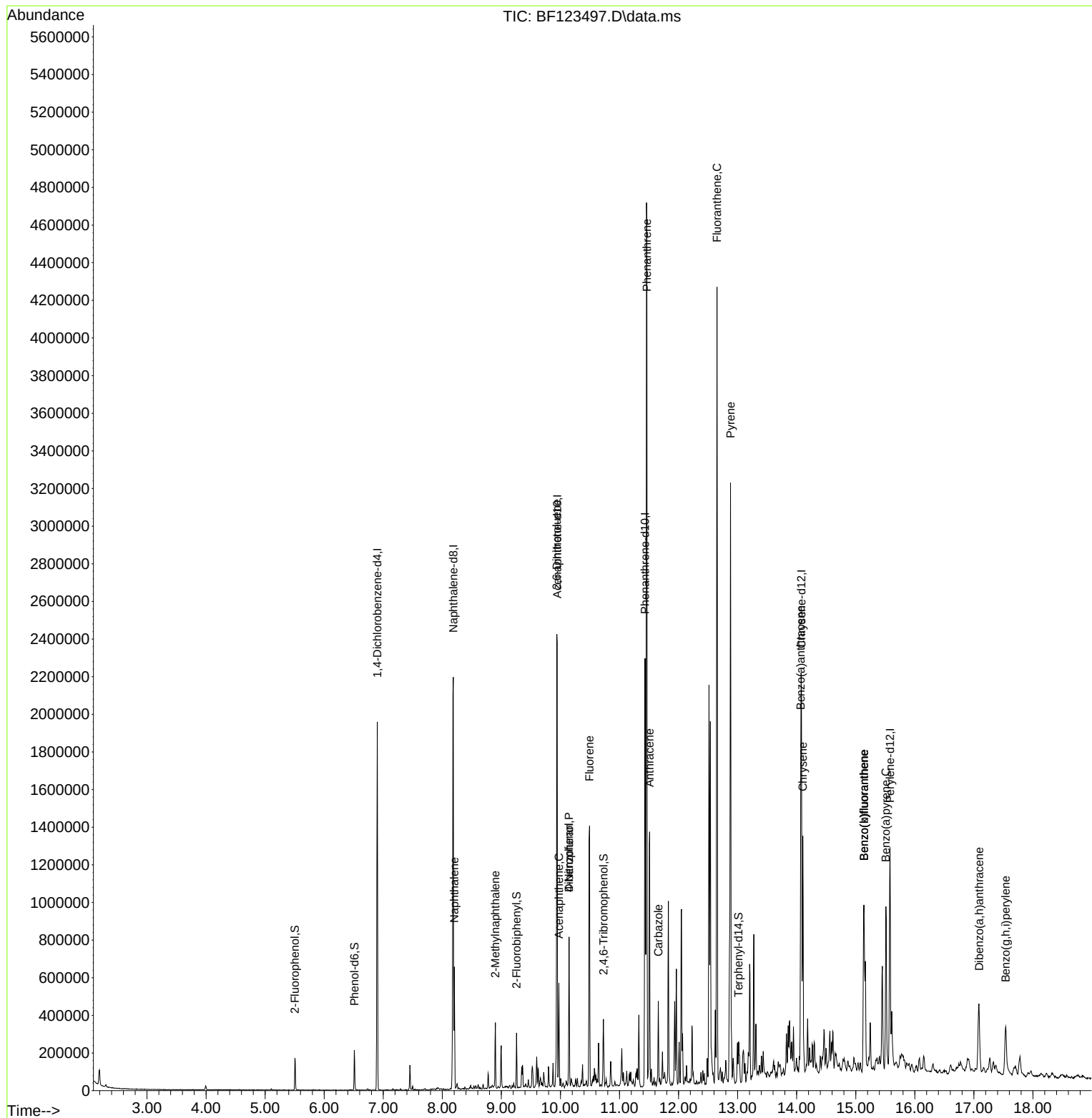
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.898  | 152  | 263092   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.186  | 136  | 967496   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.945  | 164  | 514781   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.433 | 188  | 821539   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.080 | 240  | 493057   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.580 | 264  | 541113   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.504  | 112  | 41082    | 2.55  | ng    | -0.01    |
| 7) Phenol-d6                | 6.510  | 99   | 56540    | 2.64  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.451  | 82   | 34112    | 1.90  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.727 | 330  | 13214    | 2.30  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.257  | 172  | 73483    | 2.04  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.016 | 244  | 65623    | 2.26  | ng    | -0.01    |
| Target Compounds            |        |      |          |       |       |          |
|                             |        |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 8.204  | 128  | 232705   | 4.47  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.898  | 142  | 84738    | 2.38  | ng    | 99       |
| 51) 2,6-Dinitrotoluene      | 9.939  | 165  | 71779    | 9.40  | ng    | # 31     |
| 52) Acenaphthene            | 9.975  | 154  | 102873   | 3.26  | ng    | 100      |
| 55) Dibenzofuran            | 10.145 | 168  | 247943   | 5.46  | ng    | 99       |
| 56) 4-Nitrophenol           | 10.145 | 139  | 94626    | 14.55 | ng    | # 15     |
| 58) Fluorene                | 10.492 | 166  | 385387   | 11.24 | ng    | 95       |
| 71) Phenanthrene            | 11.463 | 178  | 1862276  | 41.01 | ng    | 99       |
| 72) Anthracene              | 11.510 | 178  | 513969   | 11.25 | ng    | 98       |
| 73) Carbazole               | 11.657 | 167  | 153455   | 3.56  | ng    | 98       |
| 75) Fluoranthene            | 12.651 | 202  | 1691526  | 34.40 | ng    | 98       |
| 78) Pyrene                  | 12.880 | 202  | 1254553  | 29.50 | ng    | 100      |
| 81) Benzo(a)anthracene      | 14.068 | 228  | 586700   | 18.18 | ng    | 99       |
| 83) Chrysene                | 14.104 | 228  | 457013   | 13.72 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.139 | 252  | 769632   | 20.62 | ng    | 100      |
| 89) Benzo(k)fluoranthene    | 15.139 | 252  | 769632   | 21.81 | ng    | 99       |
| 90) Benzo(a)pyrene          | 15.509 | 252  | 432414   | 13.42 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 17.092 | 278  | 68730    | 2.41  | ng    | 95       |
| 92) Benzo(g,h,i)perylene    | 17.539 | 276  | 216330   | 7.57  | ng    | 97       |
| -----                       |        |      |          |       |       |          |

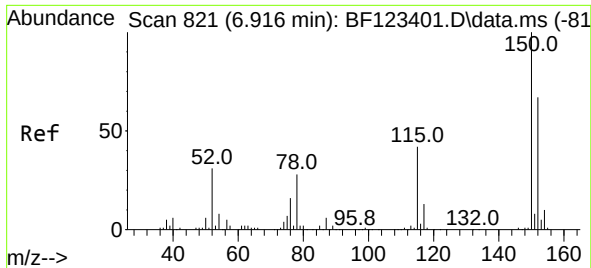
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032621\  
Data File : BF123497.D  
Acq On : 26 Mar 2021 21:08  
Operator : JU/CG  
Sample : M1793-01DL 25X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

Quant Time: Mar 26 22:59:32 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF032321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 26 12:51:59 2021  
Response via : Initial Calibration

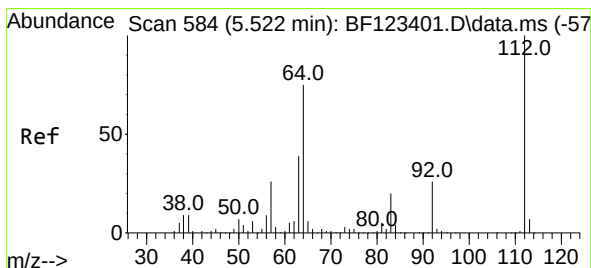
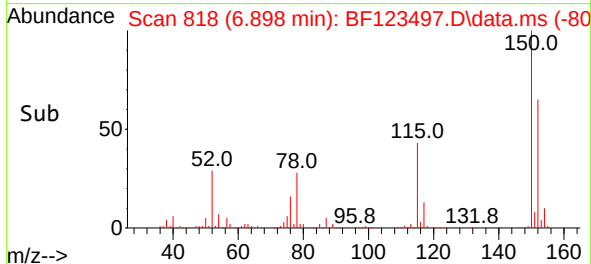
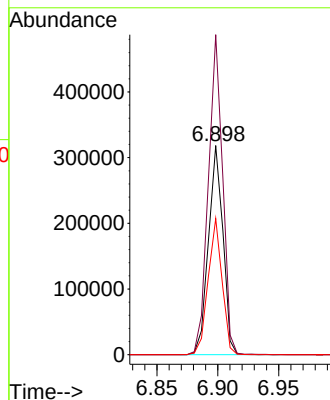
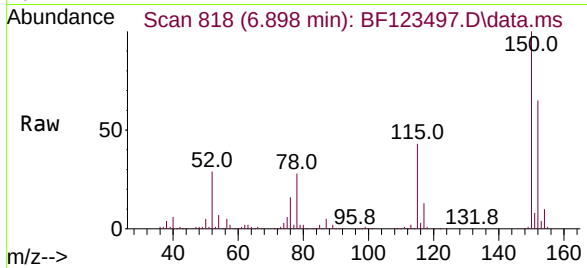




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.898 min Scan# 818  
Delta R.T. 0.000 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

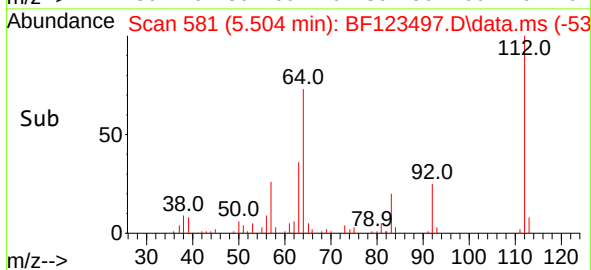
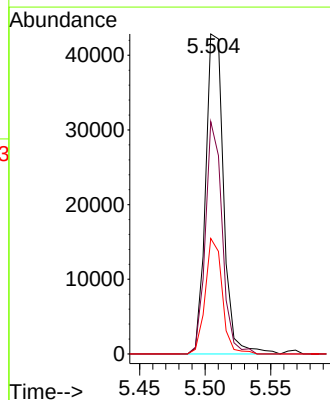
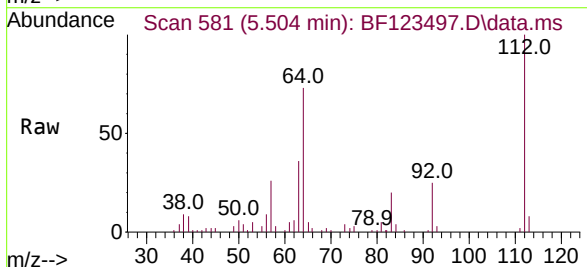
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

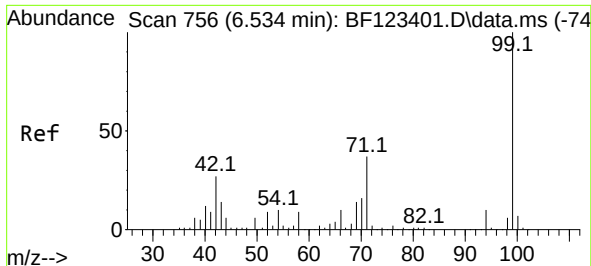
Tgt Ion:152 Resp: 263092  
Ion Ratio Lower Upper  
152 100  
150 153.0 125.8 188.6  
115 65.1 49.3 73.9



#5  
2-Fluorophenol  
Concen: 2.55 ng  
RT: 5.504 min Scan# 581  
Delta R.T. -0.012 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:112 Resp: 41082  
Ion Ratio Lower Upper  
112 100  
64 72.6 46.9 70.3#  
63 36.1 24.5 36.7

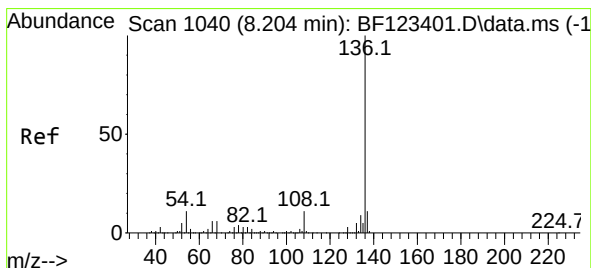
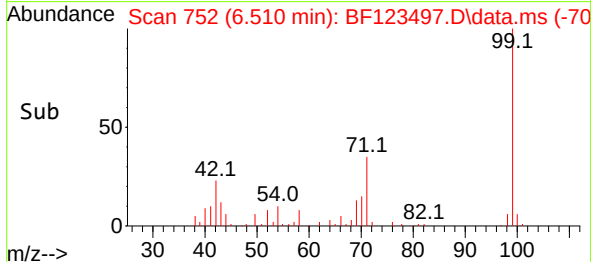
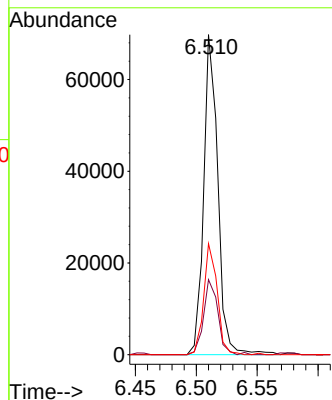
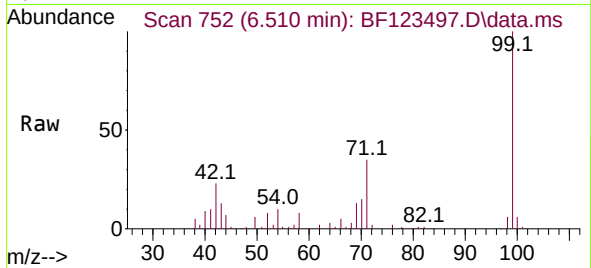




#7  
Phenol-d6  
Concen: 2.64 ng  
RT: 6.510 min Scan# 752  
Delta R.T. -0.018 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

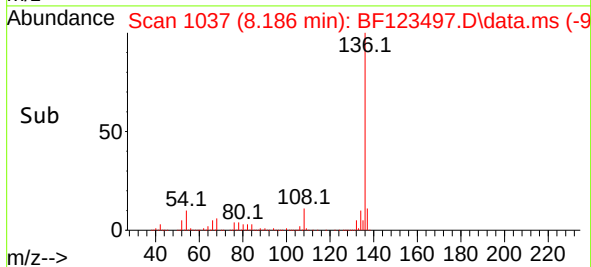
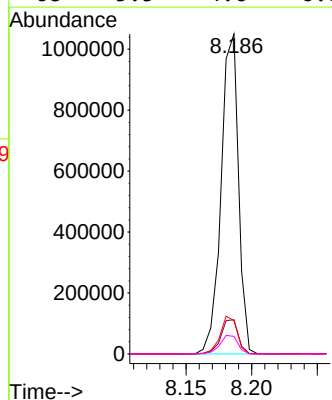
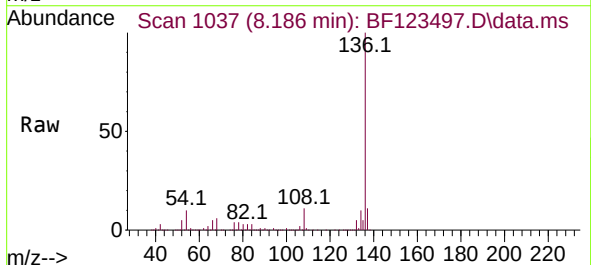
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

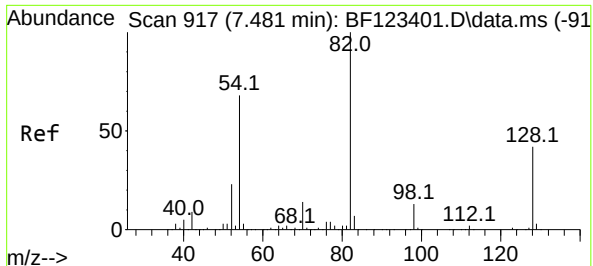
Tgt Ion: 99 Resp: 56540  
Ion Ratio Lower Upper  
99 100  
42 23.4 13.8 20.6#  
71 34.7 26.9 40.3



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.186 min Scan# 1037  
Delta R.T. 0.000 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion: 136 Resp: 967496  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 10.4 5.5 8.3#  
68 5.5 4.6 6.8





#23

Nitrobenzene-d5

Concen: 1.90 ng

RT: 7.451 min Scan# 912

Delta R.T. -0.012 min

Lab File: BF123497.D

Acq: 26 Mar 2021 21:08

Tgt Ion: 82 Resp: 34112

Ion Ratio Lower Upper

82 100

128 40.6 37.0 55.4

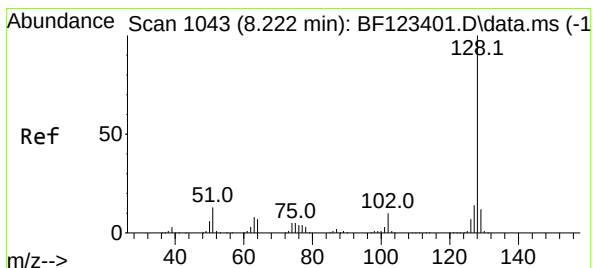
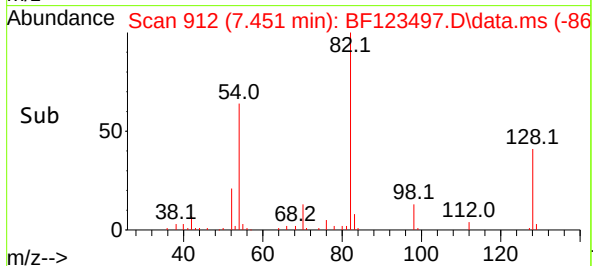
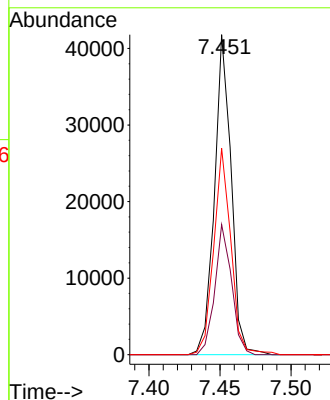
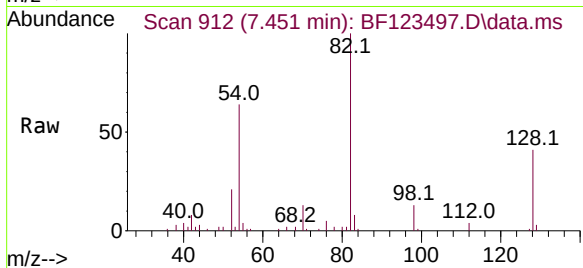
54 64.5 38.4 57.6#

Instrument :

BNA\_F

ClientSampleId :

SU-04-032421DL



#31

Naphthalene

Concen: 4.47 ng

RT: 8.204 min Scan# 1040

Delta R.T. -0.006 min

Lab File: BF123497.D

Acq: 26 Mar 2021 21:08

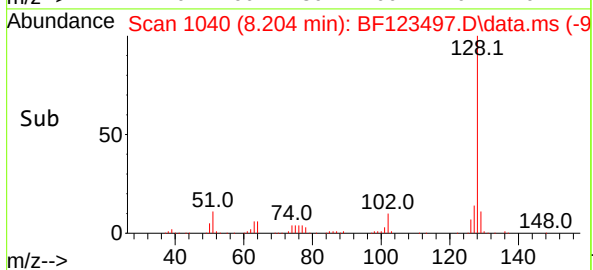
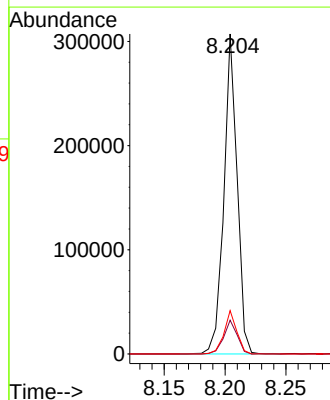
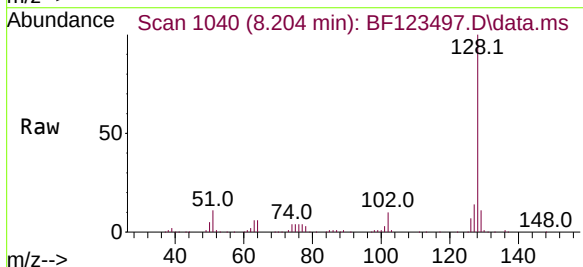
Tgt Ion:128 Resp: 232705

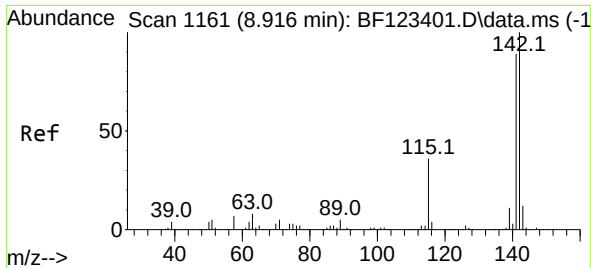
Ion Ratio Lower Upper

128 100

129 10.5 9.0 13.6

127 13.5 10.7 16.1

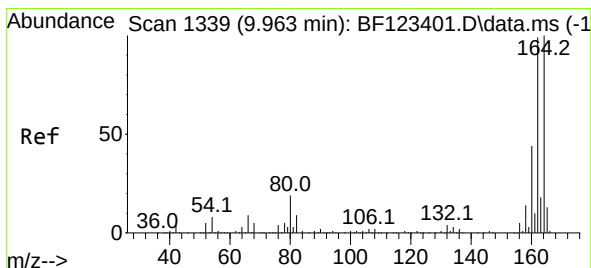
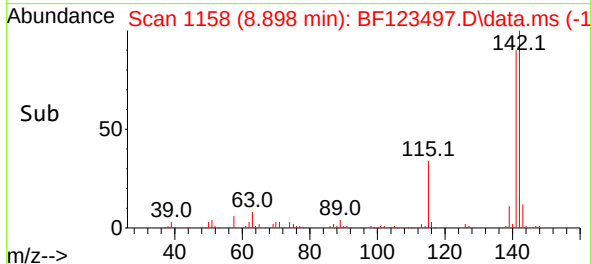
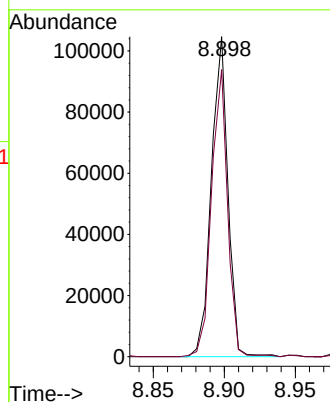
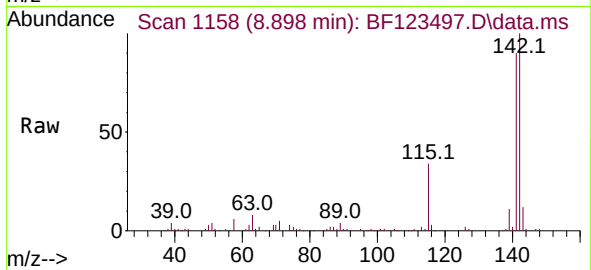




#37  
2-Methylnaphthalene  
Concen: 2.38 ng  
RT: 8.898 min Scan# 1158  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

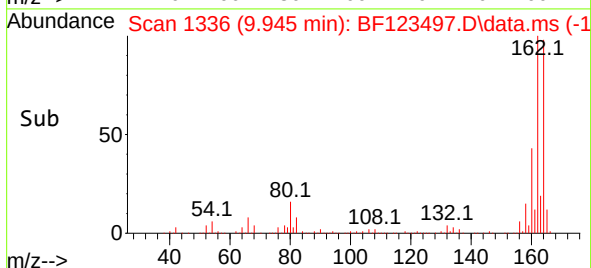
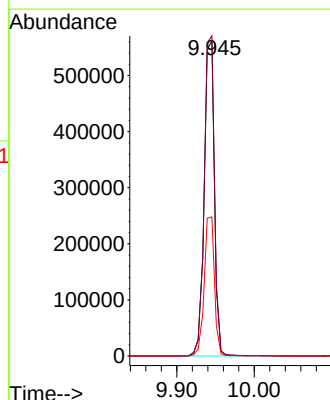
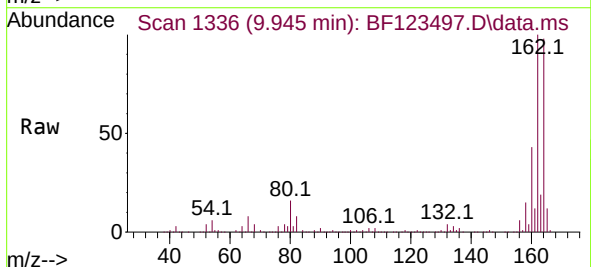
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

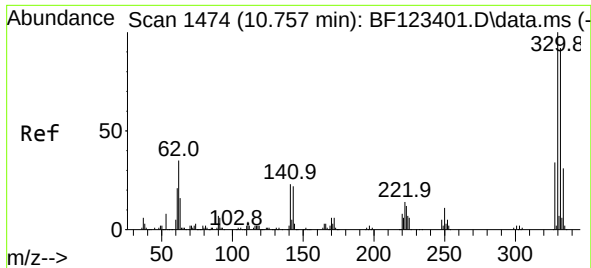
Tgt Ion:142 Resp: 84738  
Ion Ratio Lower Upper  
142 100  
141 89.7 70.6 106.0



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.945 min Scan# 1336  
Delta R.T. 0.000 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:164 Resp: 514781  
Ion Ratio Lower Upper  
164 100  
162 101.6 80.8 121.2  
160 44.2 35.4 53.0

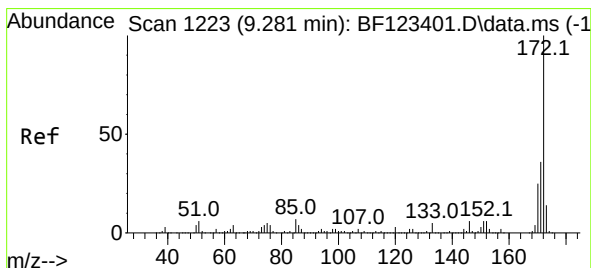
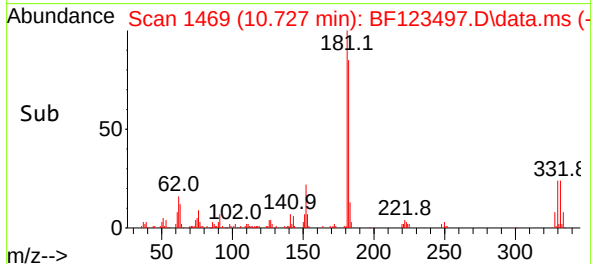
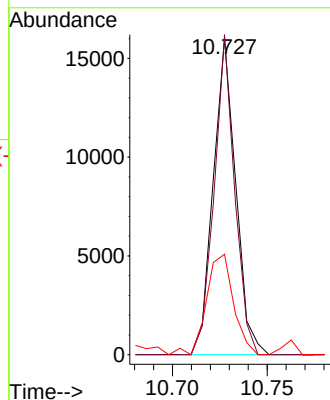
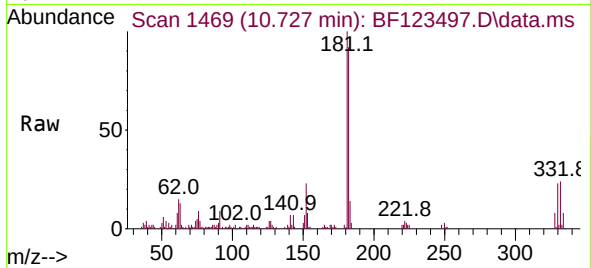




#42  
2,4,6-Tribromophenol  
Concen: 2.30 ng  
RT: 10.727 min Scan# 1469  
Delta R.T. -0.012 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

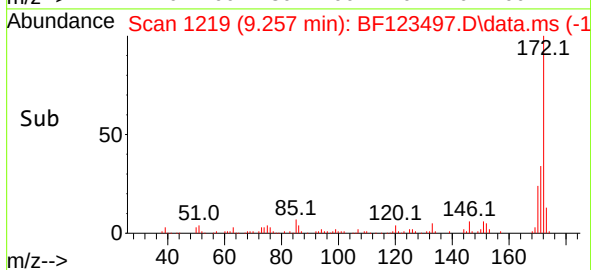
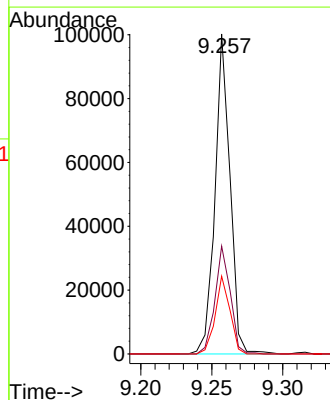
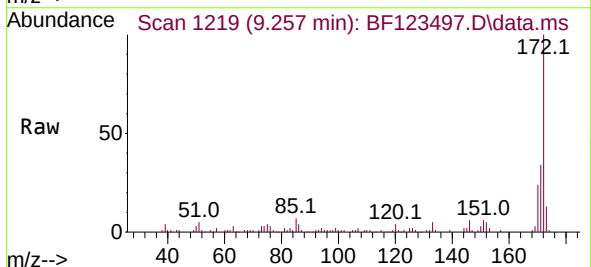
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

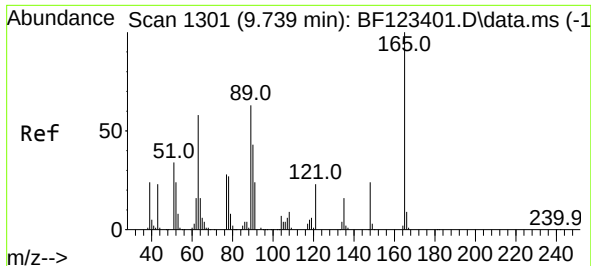
Tgt Ion: 330 Resp: 13214  
Ion Ratio Lower Upper  
330 100  
332 92.3 77.5 116.3  
141 38.3 23.8 35.8#



#45  
2-Fluorobiphenyl  
Concen: 2.04 ng  
RT: 9.257 min Scan# 1219  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion: 172 Resp: 73483  
Ion Ratio Lower Upper  
172 100  
171 33.7 29.6 44.4  
170 24.3 19.5 29.3

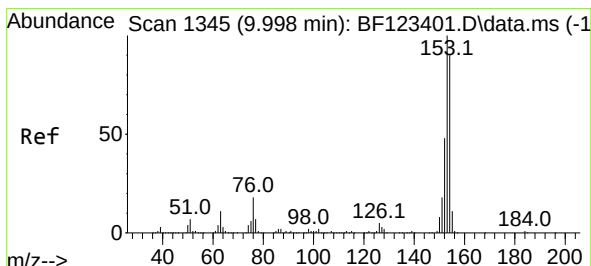
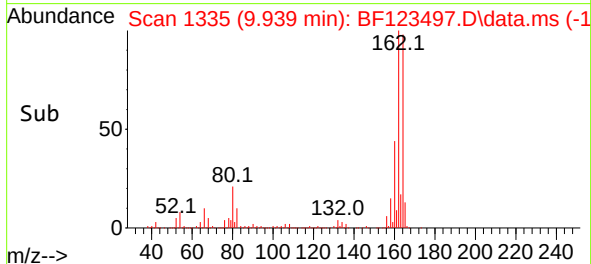
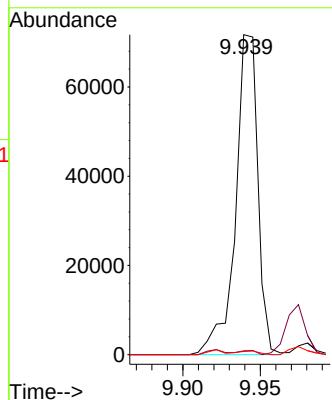
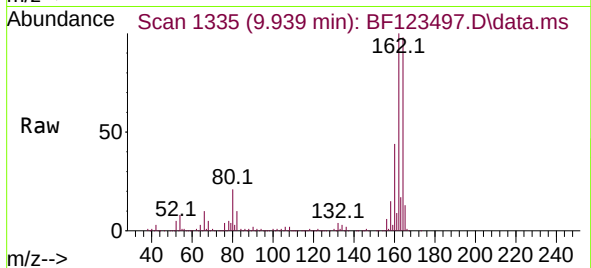




#51  
2,6-Dinitrotoluene  
Concen: 9.40 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. 0.212 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

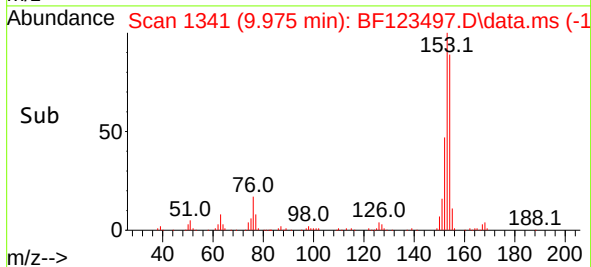
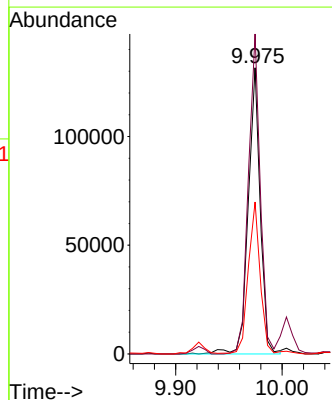
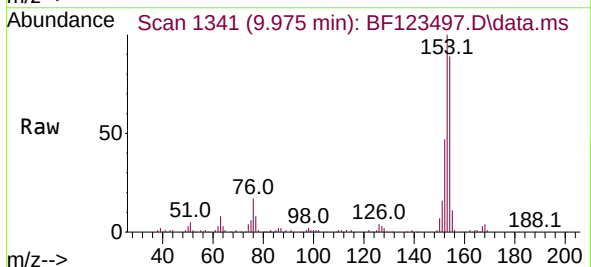
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

Tgt Ion:165 Resp: 71779  
Ion Ratio Lower Upper  
165 100  
63 1.2 36.6 55.0#  
89 1.0 39.4 59.0#

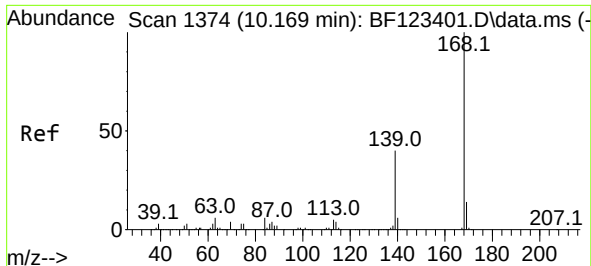


#52  
Acenaphthene  
Concen: 3.26 ng  
RT: 9.975 min Scan# 1341  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:154 Resp: 102873  
Ion Ratio Lower Upper  
154 100  
153 111.8 89.0 133.6  
152 53.1 42.7 64.1



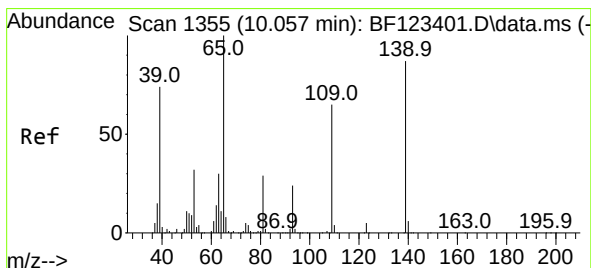
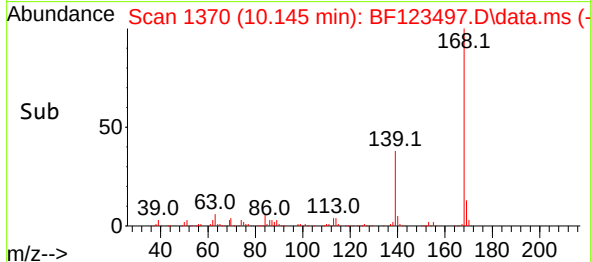
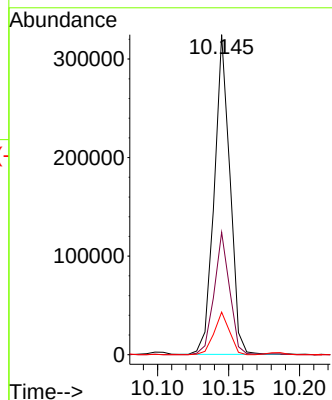
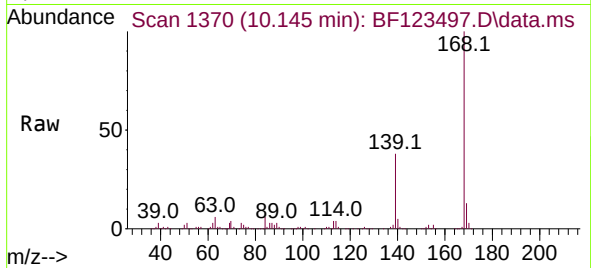




#55  
Dibenzenofuran  
Concen: 5.46 ng  
RT: 10.145 min Scan# 1370  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

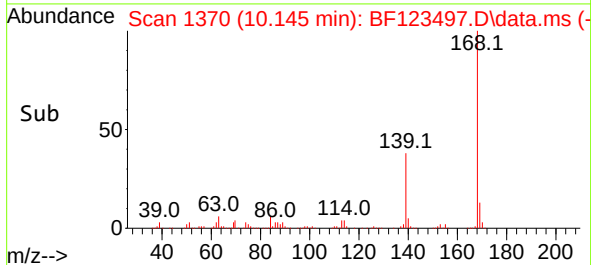
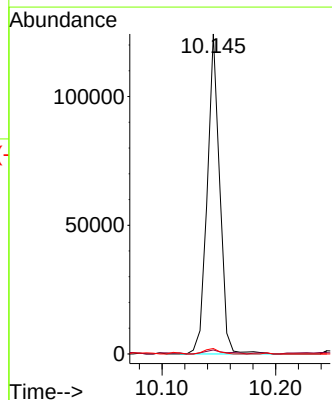
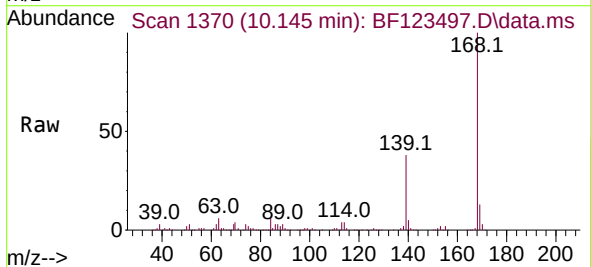
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

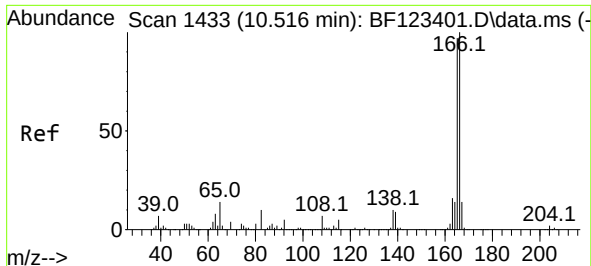
|             |                |
|-------------|----------------|
| Tgt Ion:168 | Resp: 247943   |
| Ion Ratio   | Lower Upper    |
| 168         | 100            |
| 139         | 38.3 31.3 46.9 |
| 169         | 13.3 11.2 16.8 |



#56  
4-Nitrophenol  
Concen: 14.55 ng  
RT: 10.145 min Scan# 1370  
Delta R.T. 0.100 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

|             |                |
|-------------|----------------|
| Tgt Ion:139 | Resp: 94626    |
| Ion Ratio   | Lower Upper    |
| 139         | 100            |
| 109         | 1.3 45.1 85.1# |
| 65          | 1.7 59.2 99.2# |

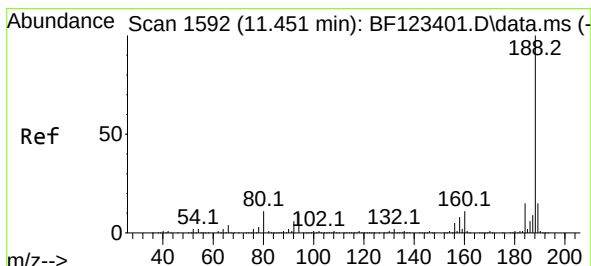
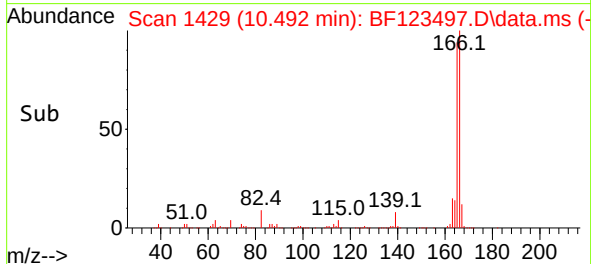
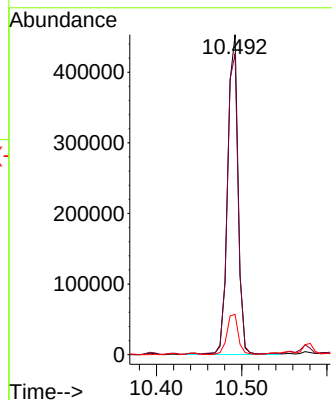
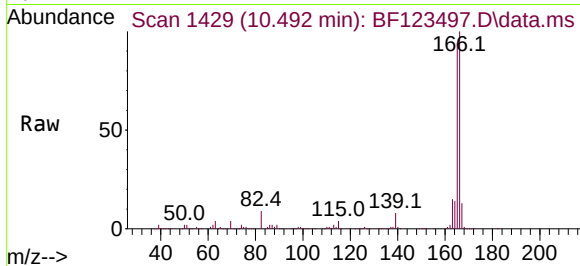




#58  
Fluorene  
Concen: 11.24 ng  
RT: 10.492 min Scan# 1429  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

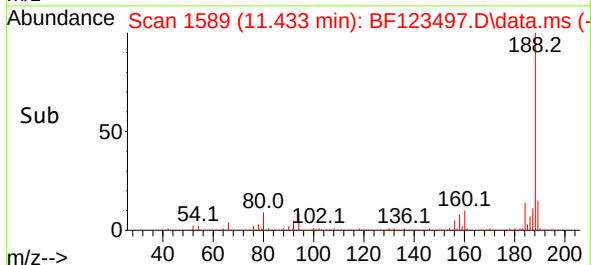
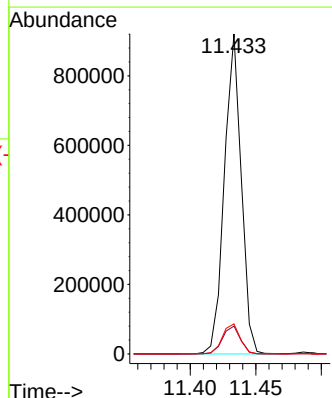
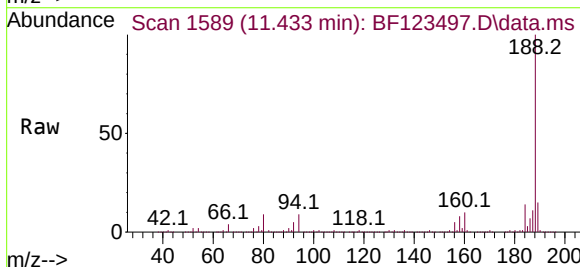
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

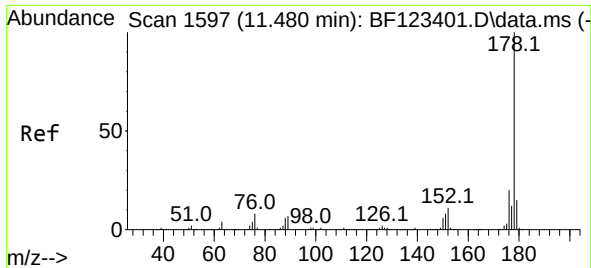
Tgt Ion:166 Resp: 385387  
Ion Ratio Lower Upper  
166 100  
165 94.0 79.4 119.0  
167 12.6 10.9 16.3



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.433 min Scan# 1589  
Delta R.T. 0.000 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:188 Resp: 821539  
Ion Ratio Lower Upper  
188 100  
94 8.7 7.4 11.2  
80 9.4 8.2 12.4

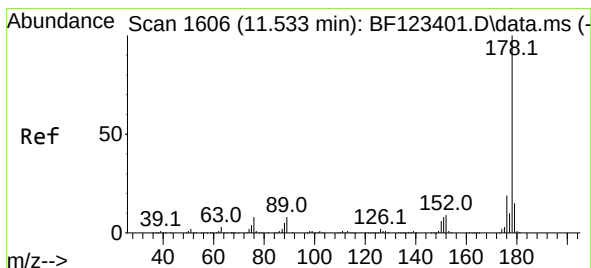
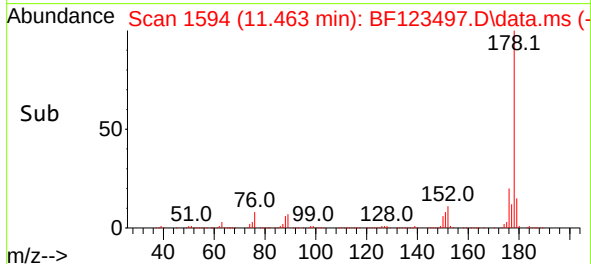
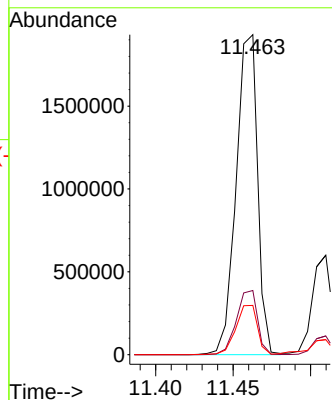
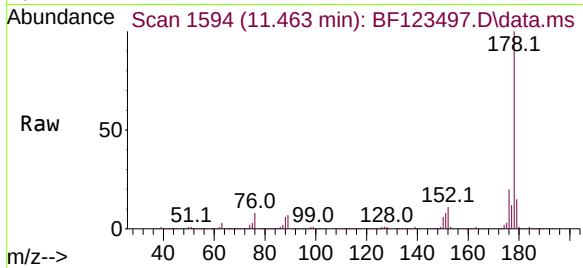




#71  
Phenanthrene  
Concen: 41.01 ng  
RT: 11.463 min Scan# 1594  
Delta R.T. 0.000 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

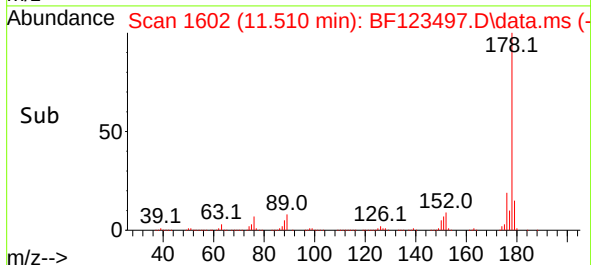
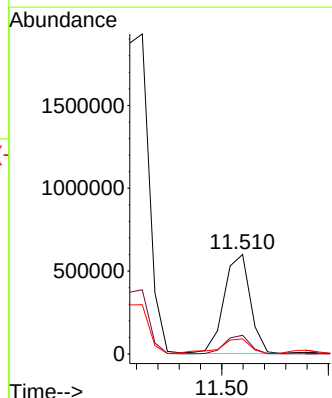
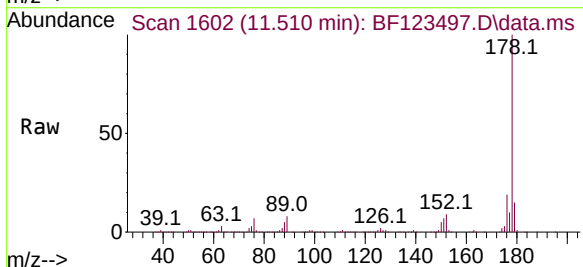
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

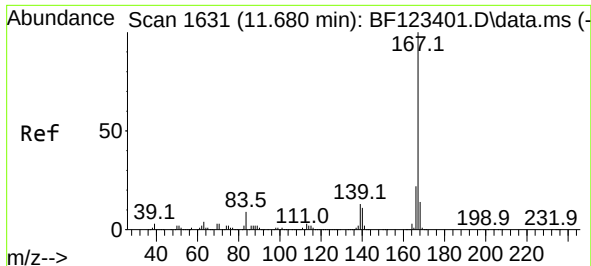
Tgt Ion:178 Resp: 1862276  
Ion Ratio Lower Upper  
178 100  
176 20.0 16.2 24.2  
179 15.4 12.7 19.1



#72  
Anthracene  
Concen: 11.25 ng  
RT: 11.510 min Scan# 1602  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:178 Resp: 513969  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.6 23.4  
179 15.0 12.8 19.2

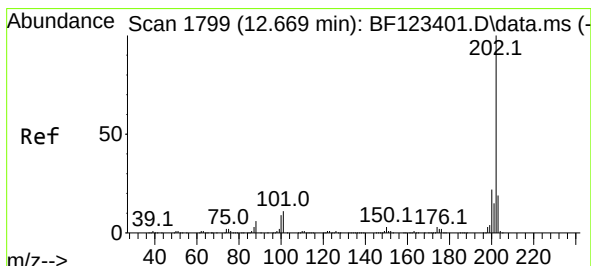
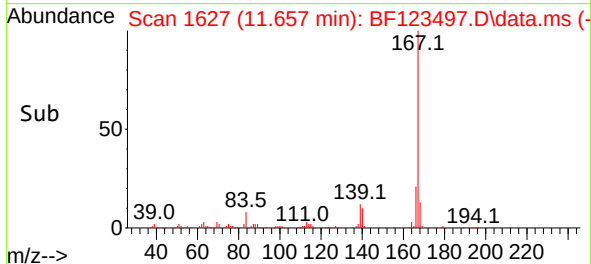
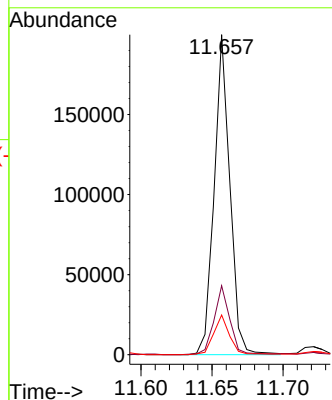
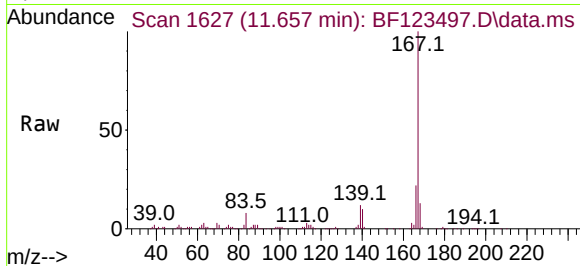




#73  
Carbazole  
Concen: 3.56 ng  
RT: 11.657 min Scan# 1627  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

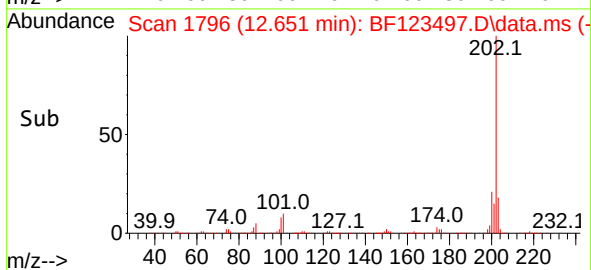
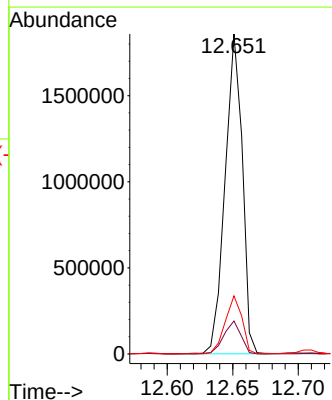
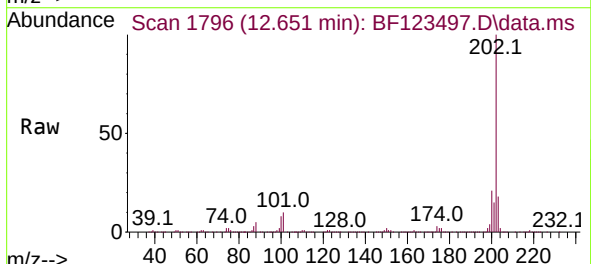
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

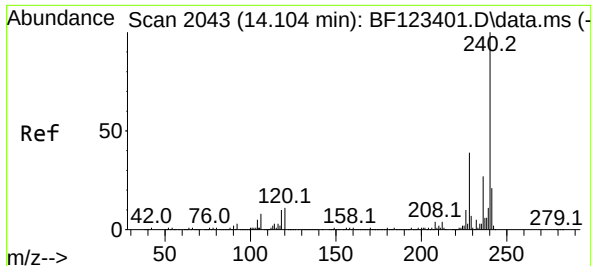
Tgt Ion:167 Resp: 153455  
Ion Ratio Lower Upper  
167 100  
166 21.5 18.0 27.0  
139 12.4 10.9 16.3



#75  
Fluoranthene  
Concen: 34.40 ng  
RT: 12.651 min Scan# 1796  
Delta R.T. 0.000 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:202 Resp: 1691526  
Ion Ratio Lower Upper  
202 100  
101 10.3 0.0 32.2  
203 18.2 0.0 38.1

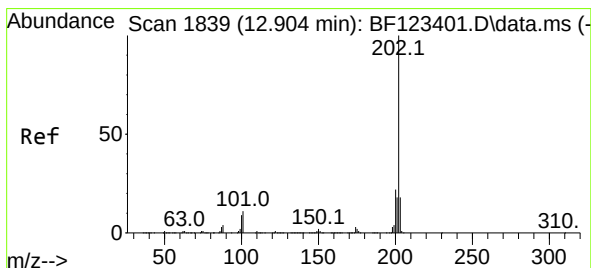
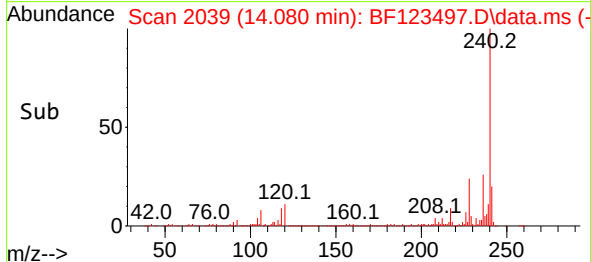
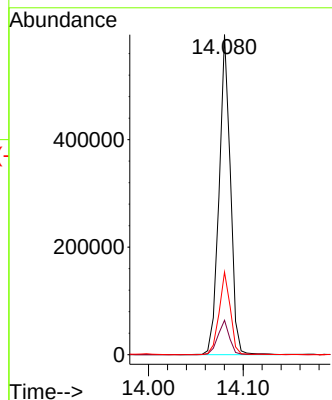
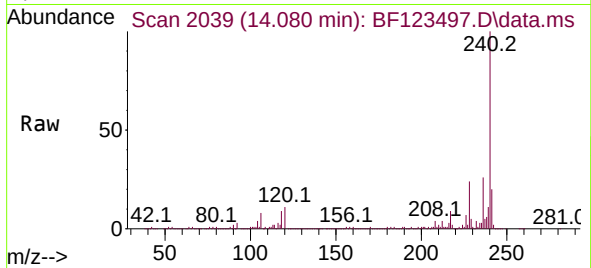




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.080 min Scan# 2039  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

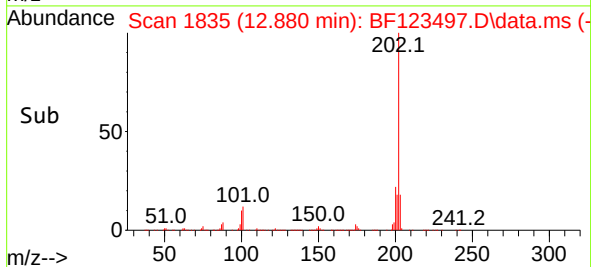
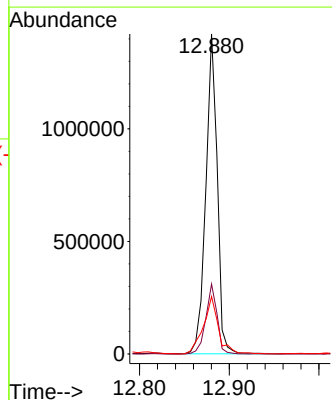
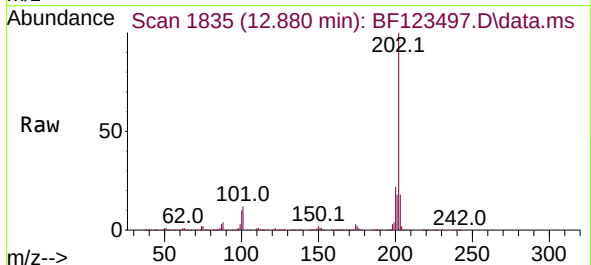
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

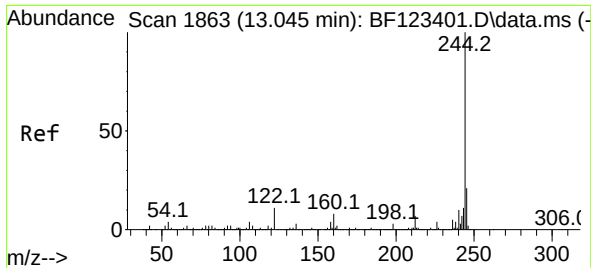
Tgt Ion:240 Resp: 493057  
Ion Ratio Lower Upper  
240 100  
120 10.7 8.6 12.8  
236 25.8 20.3 30.5



#78  
Pyrene  
Concen: 29.50 ng  
RT: 12.880 min Scan# 1835  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:202 Resp: 1254553  
Ion Ratio Lower Upper  
202 100  
200 21.8 17.6 26.4  
203 18.0 14.6 21.8

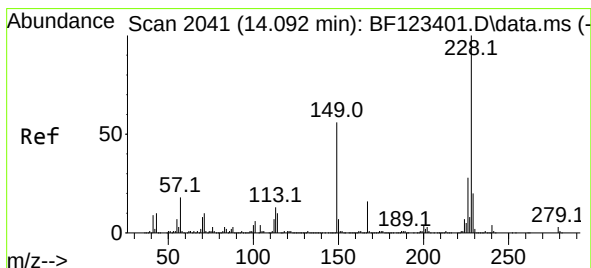
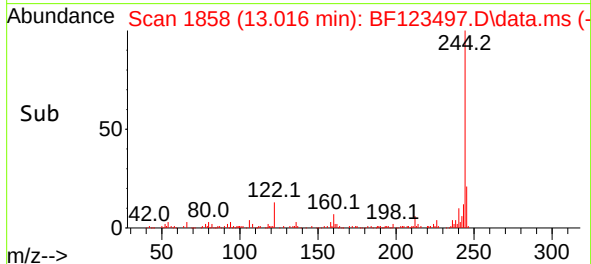
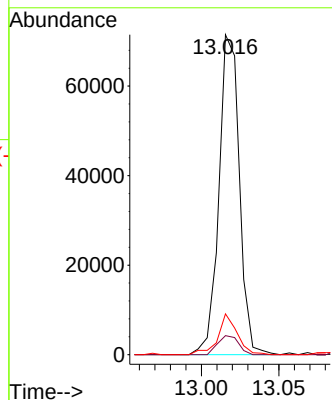
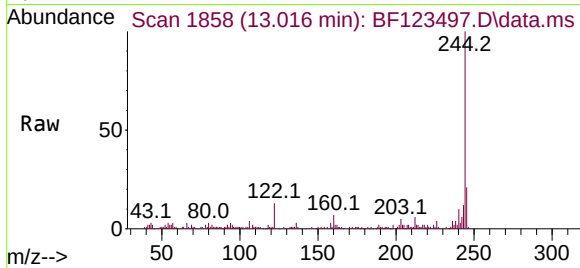




#79  
 Terphenyl-d14  
 Concen: 2.26 ng  
 RT: 13.016 min Scan# 1858  
 Delta R.T. -0.012 min  
 Lab File: BF123497.D  
 Acq: 26 Mar 2021 21:08

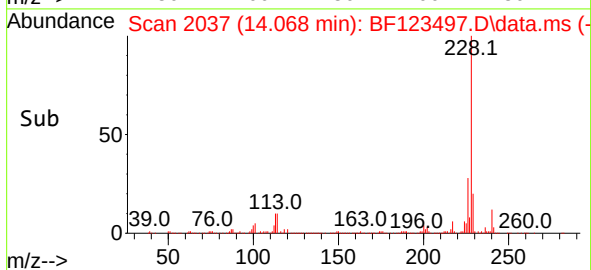
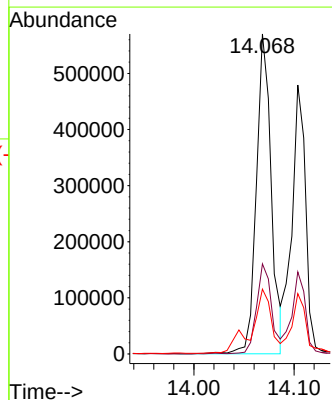
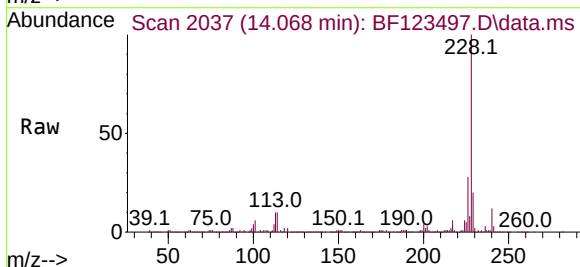
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-032421DL

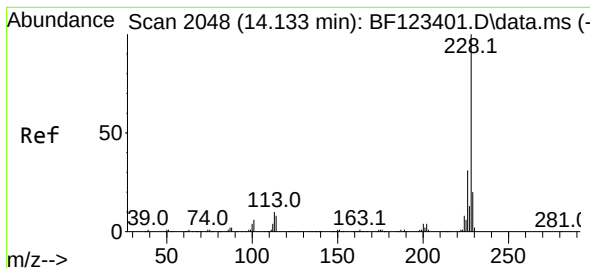
Tgt Ion:244 Resp: 65623  
 Ion Ratio Lower Upper  
 244 100  
 212 6.0 5.7 8.5  
 122 12.8 8.3 12.5#



#81  
 Benzo(a)anthracene  
 Concen: 18.18 ng  
 RT: 14.068 min Scan# 2037  
 Delta R.T. -0.006 min  
 Lab File: BF123497.D  
 Acq: 26 Mar 2021 21:08

Tgt Ion:228 Resp: 586700  
 Ion Ratio Lower Upper  
 228 100  
 226 28.2 23.0 34.4  
 229 20.2 16.6 24.8





#83

Chrysene

Concen: 13.72 ng

RT: 14.104 min Scan# 2043

Delta R.T. -0.012 min

Lab File: BF123497.D

Acq: 26 Mar 2021 21:08

Instrument :

BNA\_F

ClientSampleId :

SU-04-032421DL

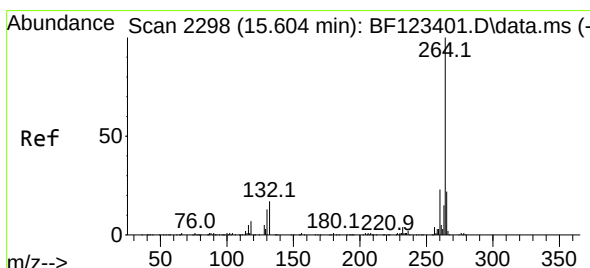
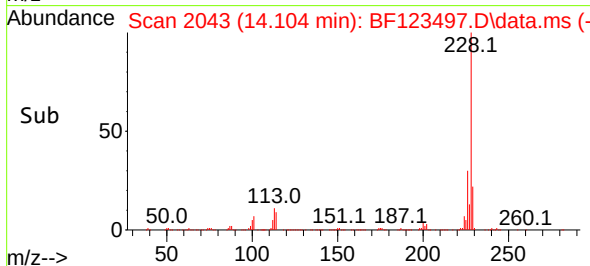
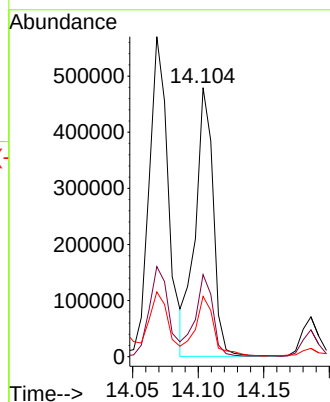
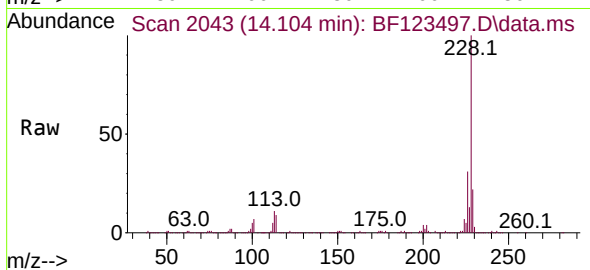
Tgt Ion:228 Resp: 457013

Ion Ratio Lower Upper

228 100

226 30.5 24.6 36.8

229 22.4 15.8 23.6



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.580 min Scan# 2294

Delta R.T. 0.000 min

Lab File: BF123497.D

Acq: 26 Mar 2021 21:08

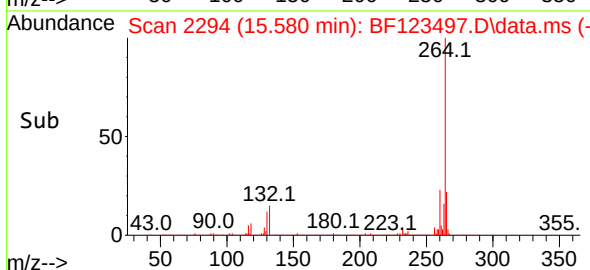
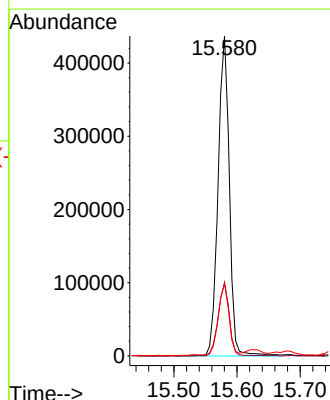
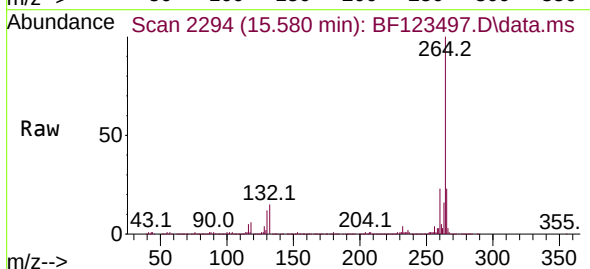
Tgt Ion:264 Resp: 541113

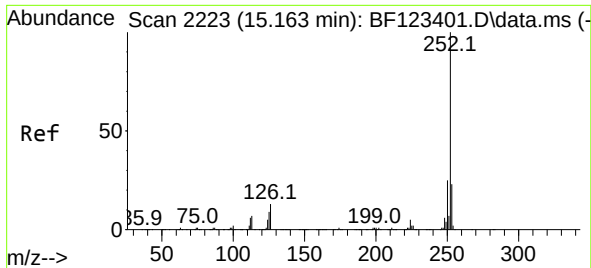
Ion Ratio Lower Upper

264 100

260 23.0 18.6 28.0

265 22.5 17.0 25.6

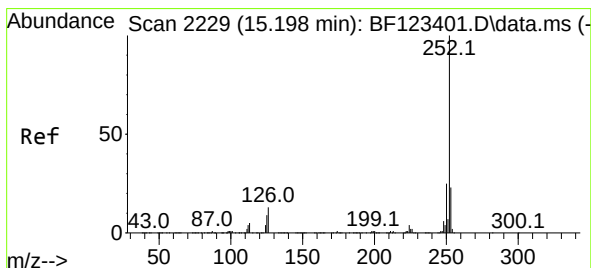
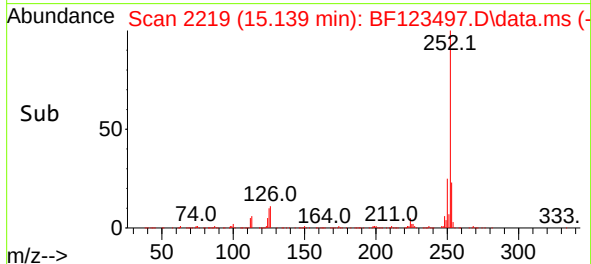
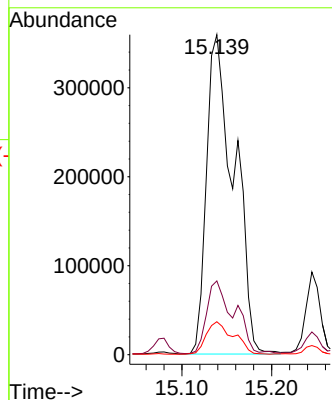
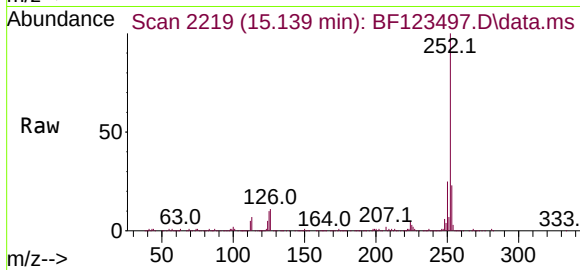




#88  
Benzo(b)fluoranthene  
Concen: 20.62 ng  
RT: 15.139 min Scan# 2219  
Delta R.T. -0.006 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

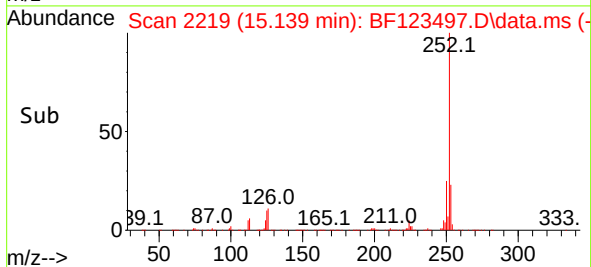
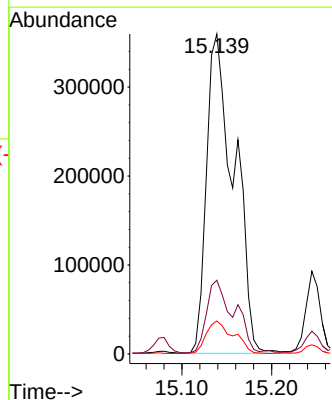
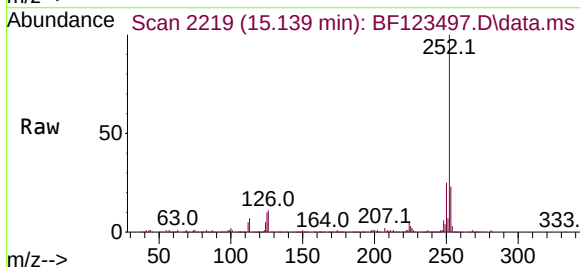
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

Tgt Ion:252 Resp: 769632  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.3 27.5  
125 10.3 8.1 12.1

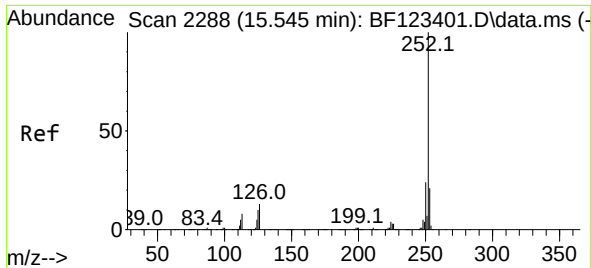


#89  
Benzo(k)fluoranthene  
Concen: 21.81 ng  
RT: 15.139 min Scan# 2219  
Delta R.T. -0.035 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:252 Resp: 769632  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.8 26.8  
125 10.3 8.4 12.6



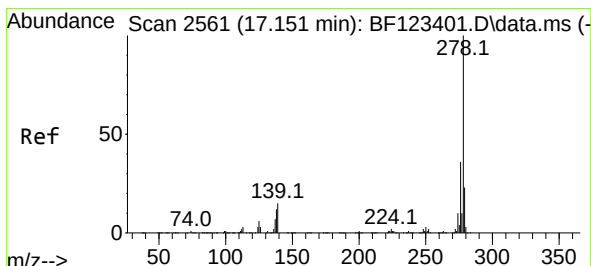
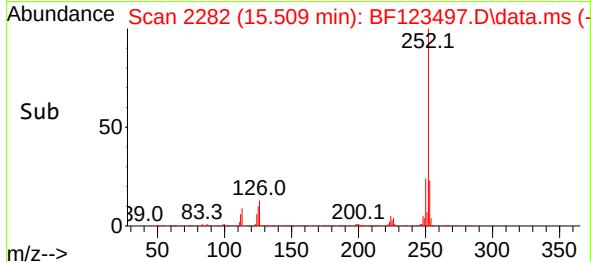
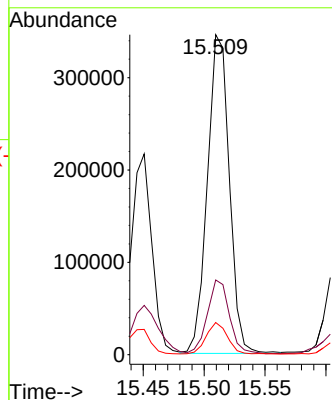
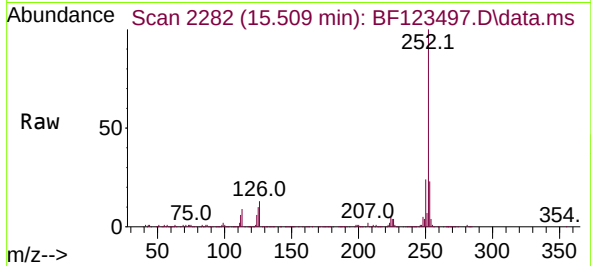




#90  
Benzo(a)pyrene  
Concen: 13.42 ng  
RT: 15.509 min Scan# 2282  
Delta R.T. -0.012 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

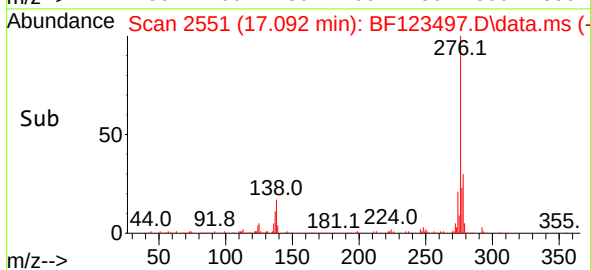
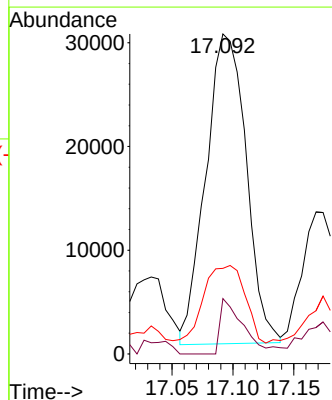
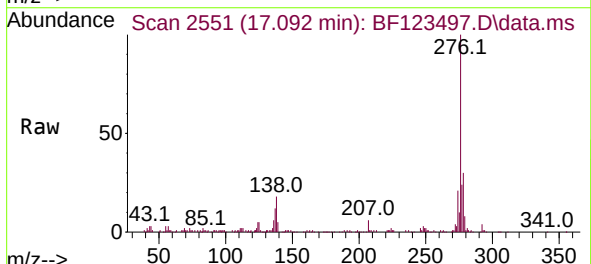
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-032421DL

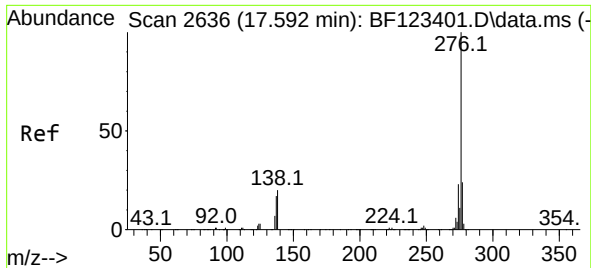
Tgt Ion:252 Resp: 432414  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.5 26.3  
125 10.0 8.6 12.8



#91  
Dibenzo(a,h)anthracene  
Concen: 2.41 ng  
RT: 17.092 min Scan# 2551  
Delta R.T. -0.029 min  
Lab File: BF123497.D  
Acq: 26 Mar 2021 21:08

Tgt Ion:278 Resp: 68730  
Ion Ratio Lower Upper  
278 100  
139 17.3 12.0 18.0  
279 26.7 19.4 29.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 7.57 ng  
 RT: 17.539 min Scan# 2627  
 Delta R.T. -0.018 min  
 Lab File: BF123497.D  
 Acq: 26 Mar 2021 21:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-032421DL

Tgt Ion:276 Resp: 216330  
 Ion Ratio Lower Upper  
 276 100  
 277 23.2 19.3 28.9  
 138 19.0 16.6 24.8

