

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091421\  
 Data File : BF125493.D  
 Acq On : 15 Sep 2021 1:27  
 Operator : JU/CG  
 Sample : M3725-01 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-01-091321

Manual Integrations  
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Quant Time: Sep 15 01:55:35 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 14 17:17:24 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.875  | 152  | 142178   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.157  | 136  | 531346   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.916  | 164  | 238499   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.404 | 188  | 348016   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.051 | 240  | 300487   | 20.000 | ng    | #-0.01   |
| 86) Perylene-d12            | 15.539 | 264  | 279897   | 20.000 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.493  | 112  | 150217   | 15.992 | ng    | -0.01    |
| 7) Phenol-d6                | 6.504  | 99   | 203315   | 16.736 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.434  | 82   | 133873   | 12.684 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.704 | 330  | 33528    | 14.083 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.228  | 172  | 253494   | 14.814 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.992 | 244  | 206948   | 10.972 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid            | 7.916  | 122  | 61381    | 11.249 | ng    | # 82     |
| 52) Acenaphthene            | 9.945  | 154  | 42198    | 2.990  | ng    | 98       |
| 58) Fluorene                | 10.463 | 166  | 36838    | 2.453  | ng    | 99       |
| 71) Phenanthrene            | 11.427 | 178  | 444588   | 23.185 | ng    | 98       |
| 72) Anthracene              | 11.480 | 178  | 98622    | 5.218  | ng    | 99       |
| 73) Carbazole               | 11.639 | 167  | 42668    | 2.470  | ng    | 97       |
| 75) Fluoranthene            | 12.622 | 202  | 444219   | 23.347 | ng    | 98       |
| 78) Pyrene                  | 12.851 | 202  | 391738   | 15.198 | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.039 | 228  | 214386   | 9.902  | ng    | 99       |
| 83) Chrysene                | 14.074 | 228  | 181525   | 8.478  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.033 | 276  | 63043    | 3.126  | ng    | # 89     |
| 88) Benzo(b)fluoranthene    | 15.104 | 252  | 220235m  | 10.770 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.127 | 252  | 59574m   | 3.122  | ng    |          |
| 90) Benzo(a)pyrene          | 15.474 | 252  | 143674   | 7.954  | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 17.492 | 276  | 57973m   | 3.449  | ng    |          |
| -----                       |        |      |          |        |       |          |

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

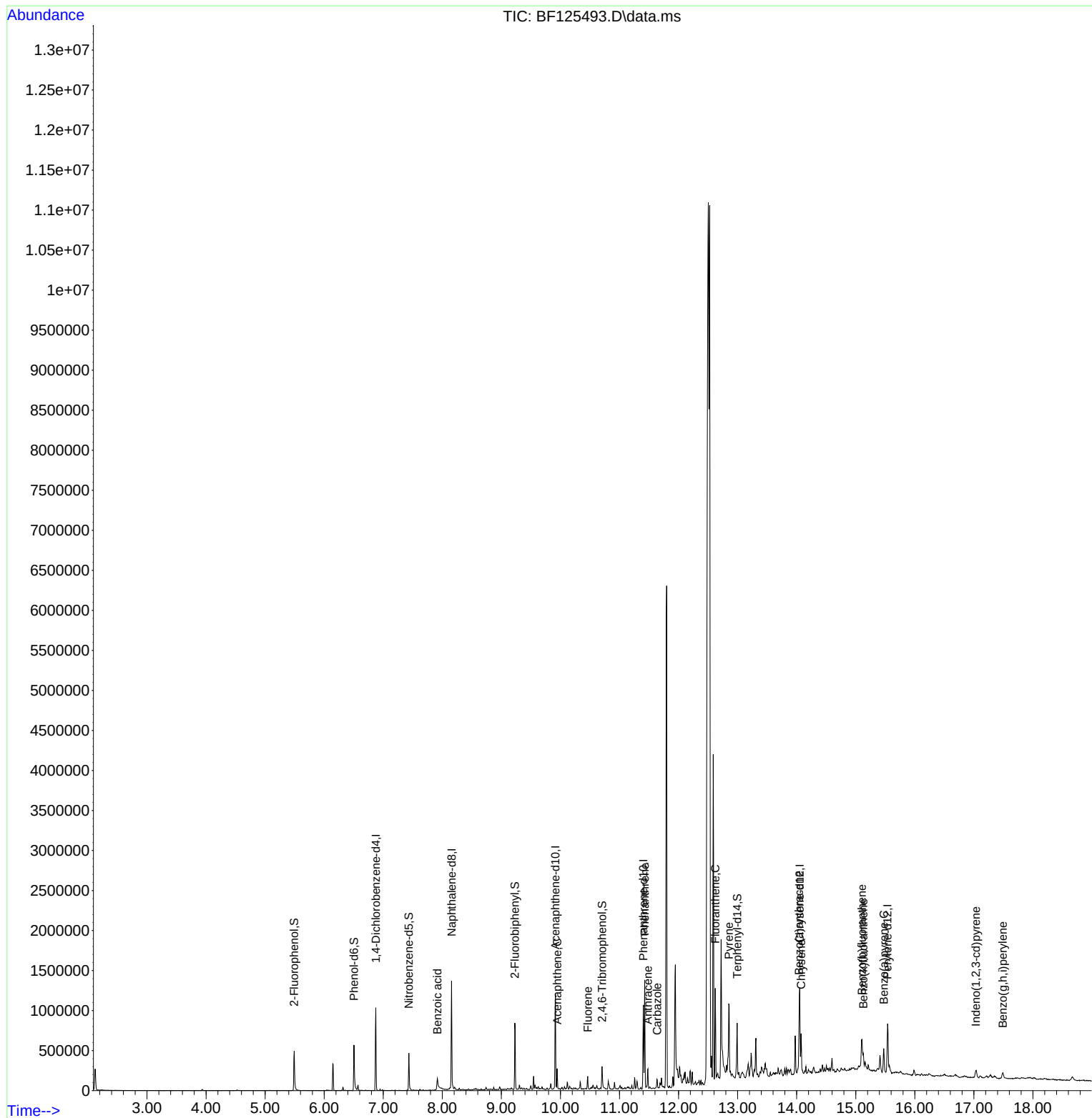
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091421\  
Data File : BF125493.D  
Acq On : 15 Sep 2021 1:27  
Operator : JU/CG  
Sample : M3725-01 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

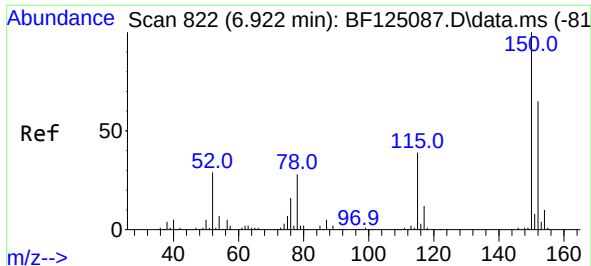
Instrument :  
BNA\_F  
ClientSampleId :  
HR-01-091321

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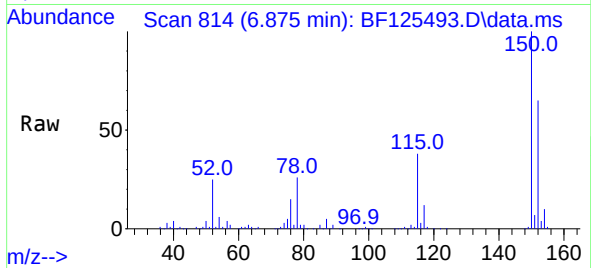
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Quant Time: Sep 15 01:55:35 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 14 17:17:24 2021  
Response via : Initial Calibration

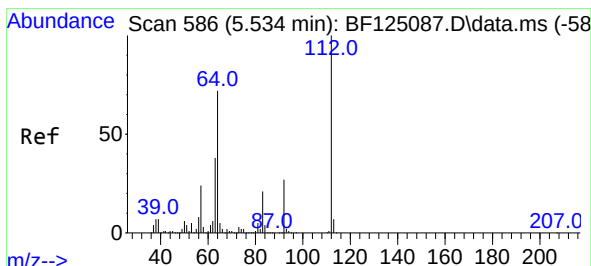
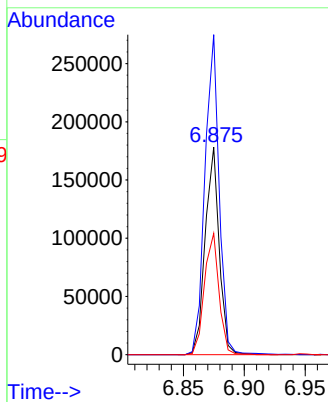
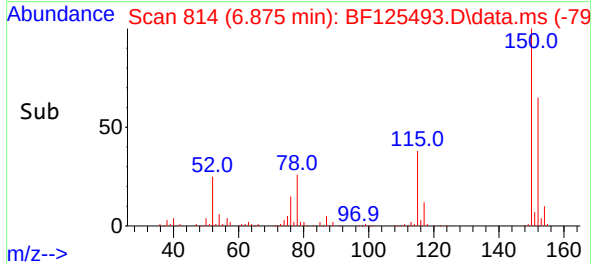




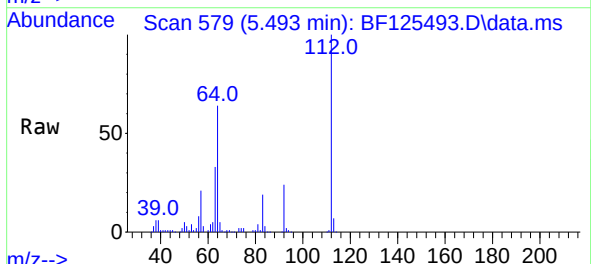
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27



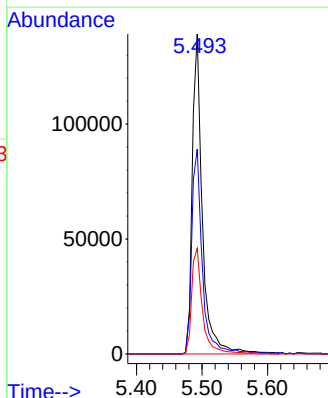
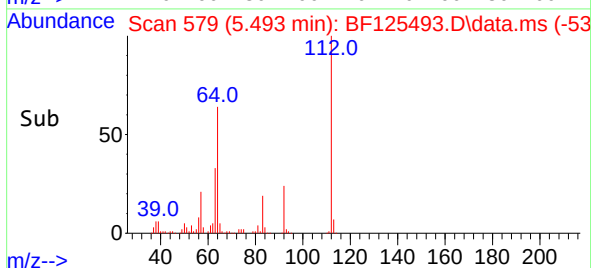
Tgt Ion:152 Resp: 142178  
Ion Ratio Lower Upper  
152 100  
150 154.2 117.6 176.4  
115 58.4 47.1 70.7



#5  
2-Fluorophenol  
Concen: 15.992 ng  
RT: 5.493 min Scan# 579  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27



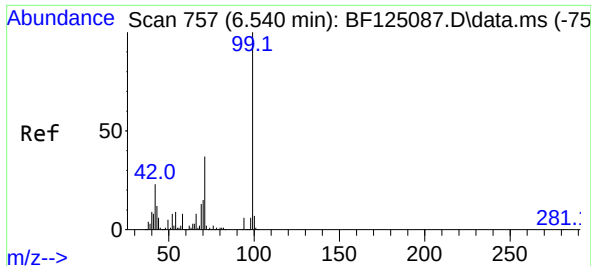
Tgt Ion:112 Resp: 150217  
Ion Ratio Lower Upper  
112 100  
64 64.0 44.2 66.2  
63 33.0 26.2 39.2



Instrument :  
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ClientSampleId :  
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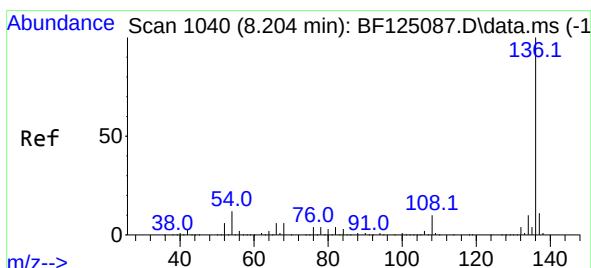
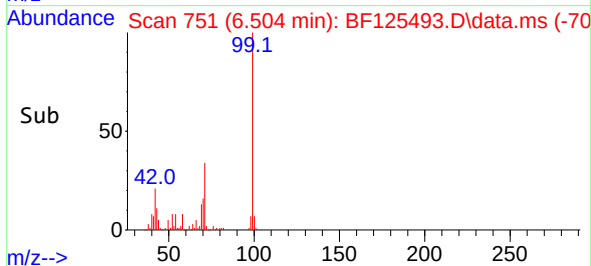
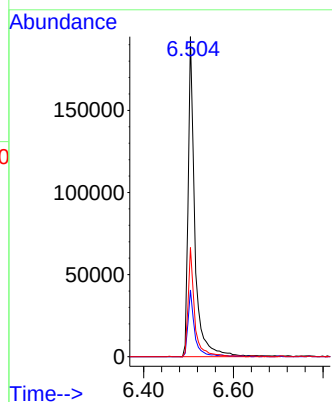
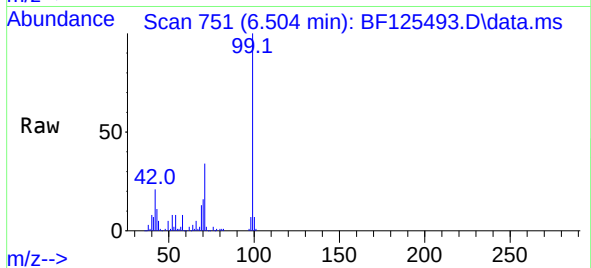
#7  
Phenol-d6  
Concen: 16.736 ng  
RT: 6.504 min Scan# 751  
Delta R.T. -0.018 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion: 99 Resp: 203315  
Ion Ratio Lower Upper  
99 100  
42 20.8 23.5 35.3#  
71 34.1 25.6 38.4

Instrument :  
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ClientSampleId :  
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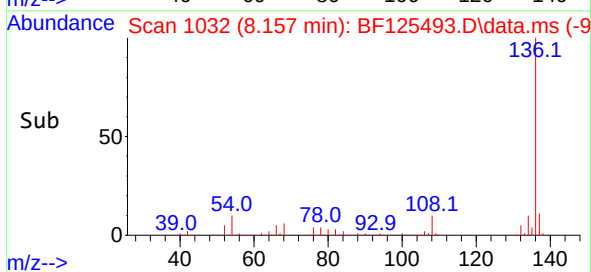
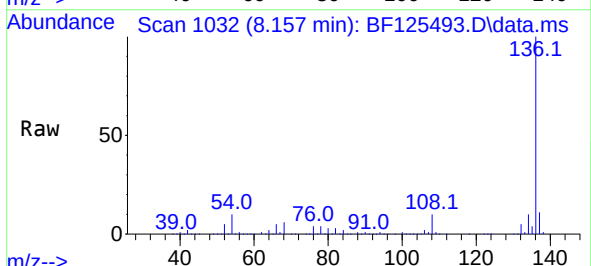
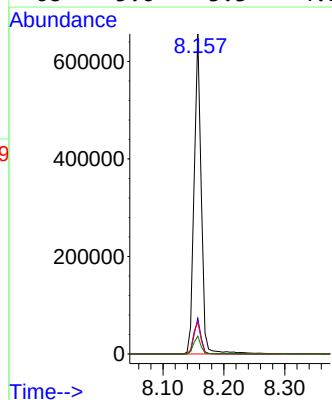
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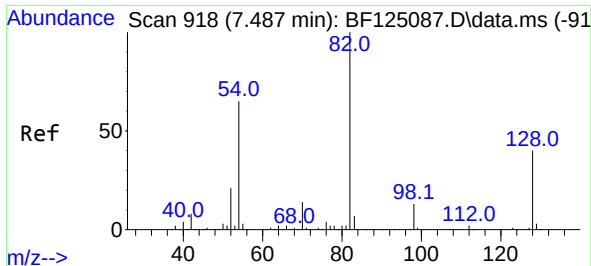
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1032  
Delta R.T. -0.006 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion: 136 Resp: 531346  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.8 14.6  
54 10.0 6.4 9.6#  
68 5.6 3.3 4.9#





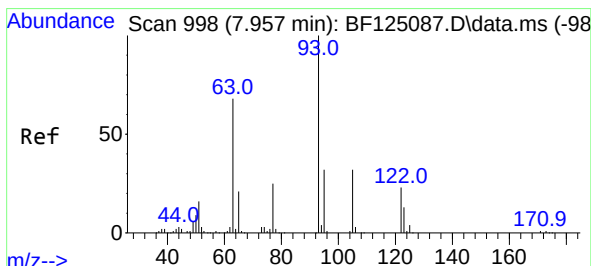
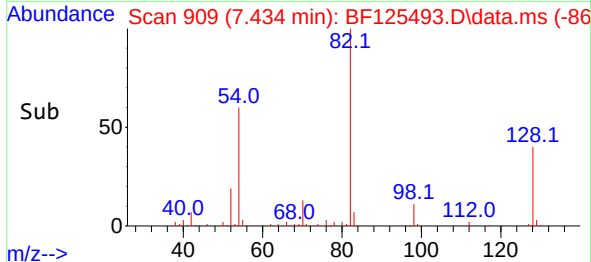
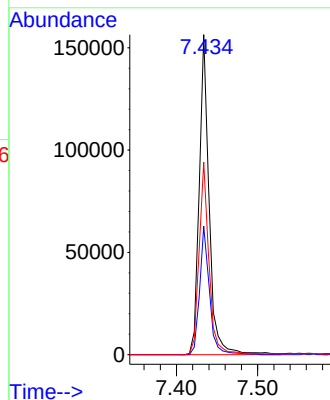
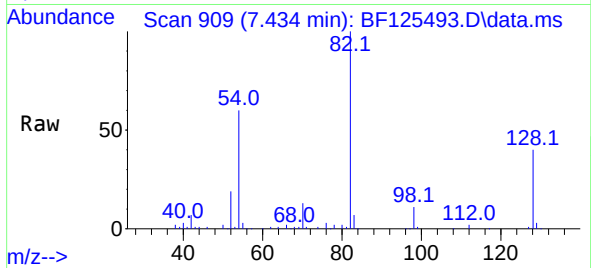
#23  
Nitrobenzene-d5  
Concen: 12.684 ng  
RT: 7.434 min Scan# 909  
Delta R.T. -0.018 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion: 82 Resp: 133873  
Ion Ratio Lower Upper  
82 100  
128 40.2 40.6 60.8#  
54 60.2 49.6 74.4

Instrument :  
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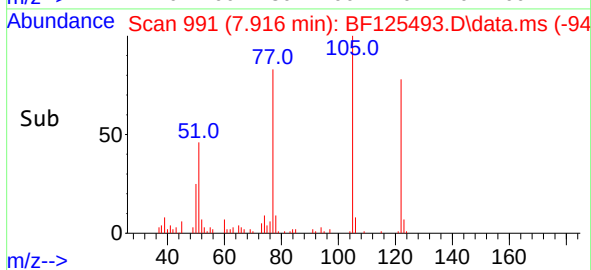
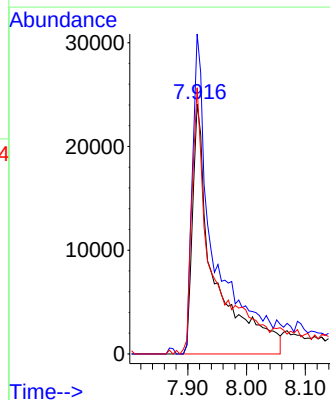
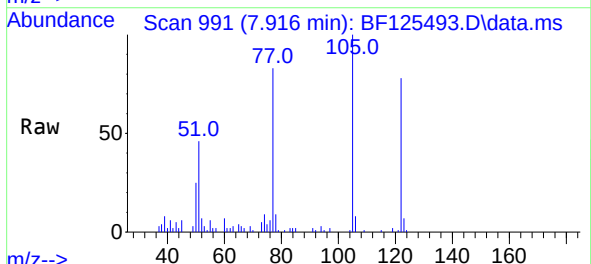
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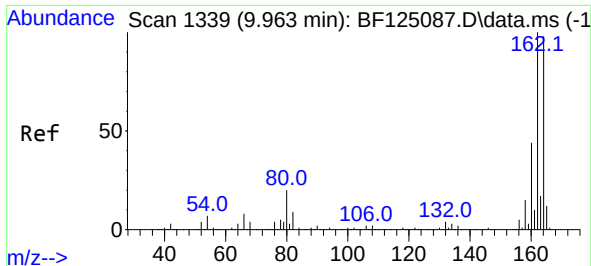
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#32  
Benzoic acid  
Concen: 11.249 ng  
RT: 7.916 min Scan# 991  
Delta R.T. -0.047 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

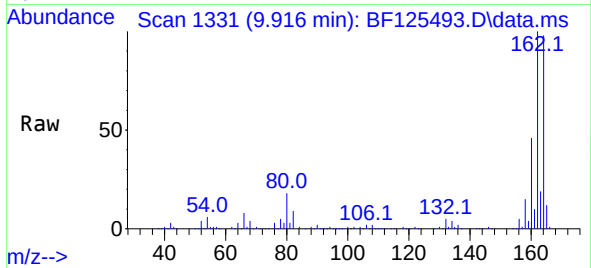
Tgt Ion:122 Resp: 61381  
Ion Ratio Lower Upper  
122 100  
105 128.0 97.6 137.6  
77 106.5 59.6 99.6#





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. -0.006 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

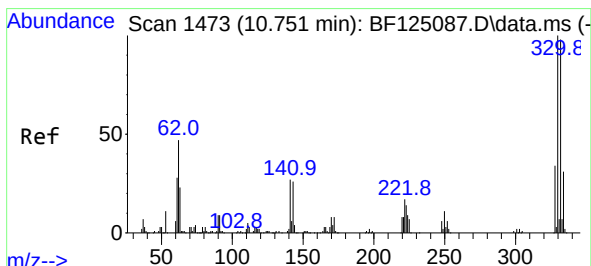
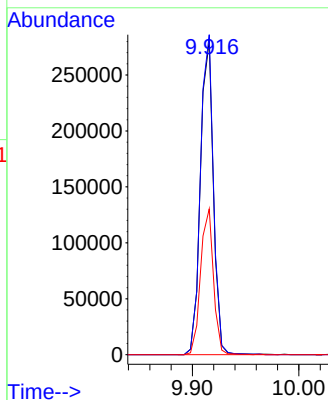
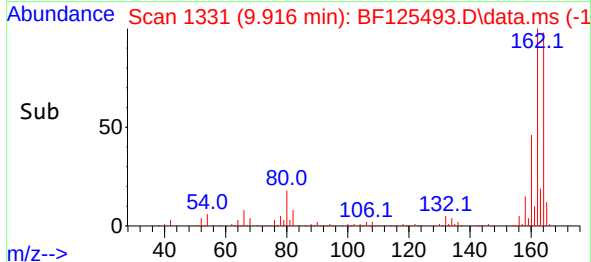
Instrument :  
BNA\_F  
ClientSampleId :  
HR-01-091321



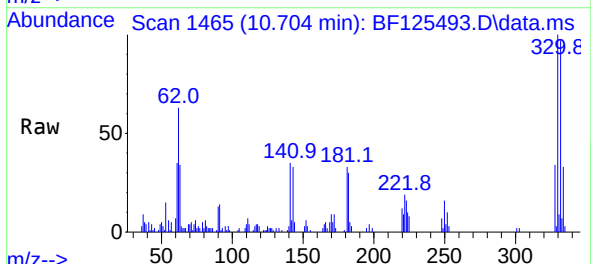
Tgt Ion:164 Resp: 238499  
Ion Ratio Lower Upper  
164 100  
162 102.1 81.3 121.9  
160 46.5 38.0 57.0

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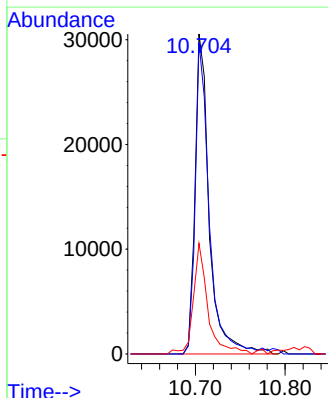
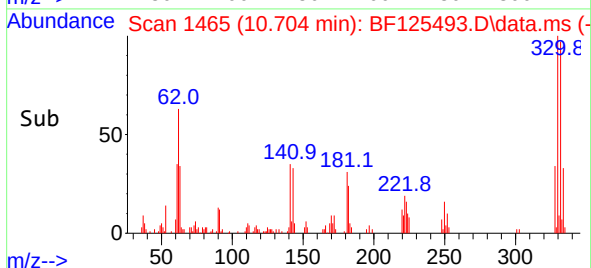
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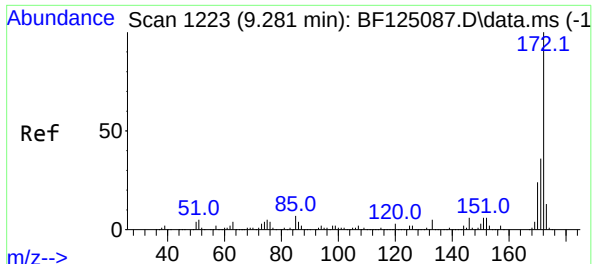


#42  
2,4,6-Tribromophenol  
Concen: 14.083 ng  
RT: 10.704 min Scan# 1465  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27



Tgt Ion:330 Resp: 33528  
Ion Ratio Lower Upper  
330 100  
332 95.7 76.2 114.4  
141 35.3 44.6 66.8#





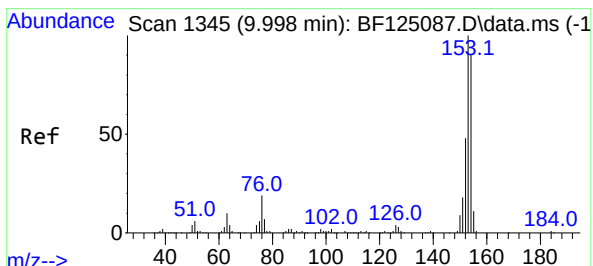
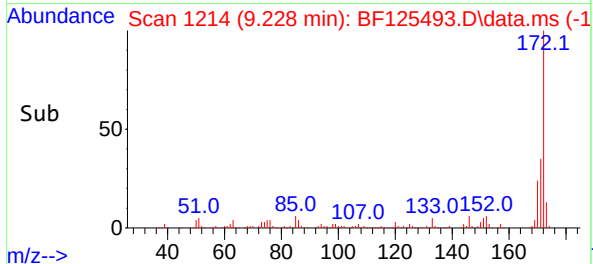
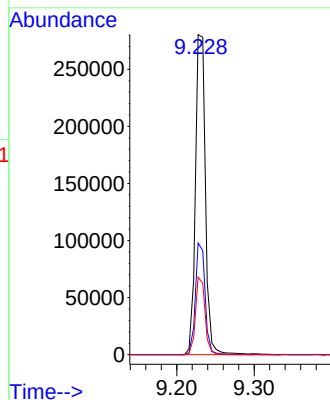
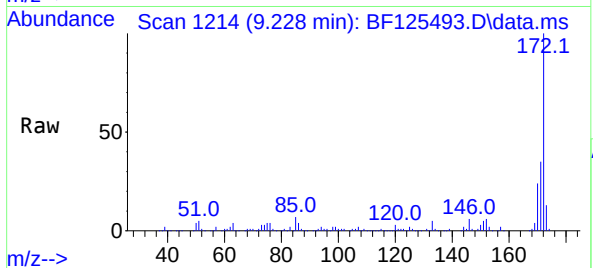
#45  
2-Fluorobiphenyl  
Concen: 14.814 ng  
RT: 9.228 min Scan# 1214  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Instrument :  
BNA\_F  
ClientSampleId :  
HR-01-091321

Tgt Ion:172 Resp: 253494  
Ion Ratio Lower Upper  
172 100  
171 34.9 26.5 39.7  
170 24.2 18.8 28.2

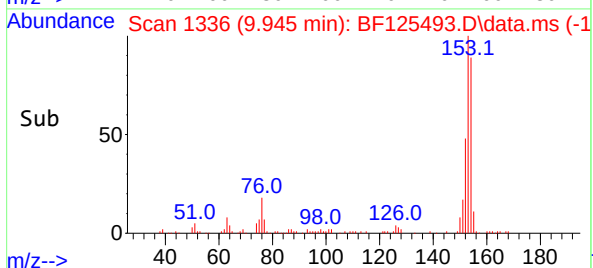
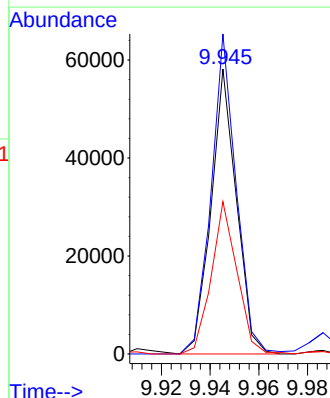
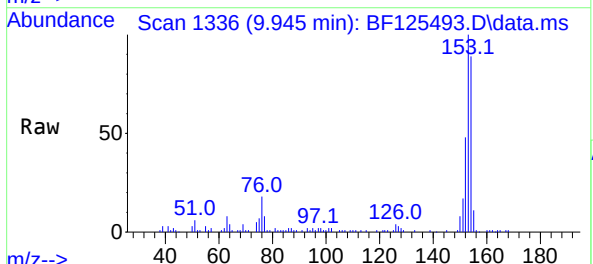
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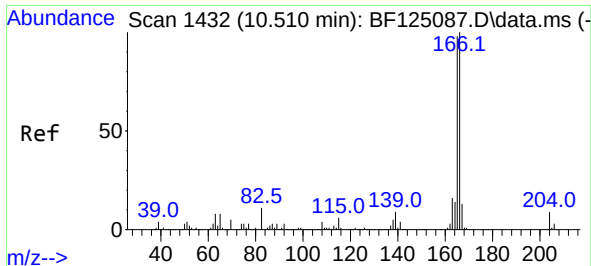
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#52  
Acenaphthene  
Concen: 2.990 ng  
RT: 9.945 min Scan# 1336  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

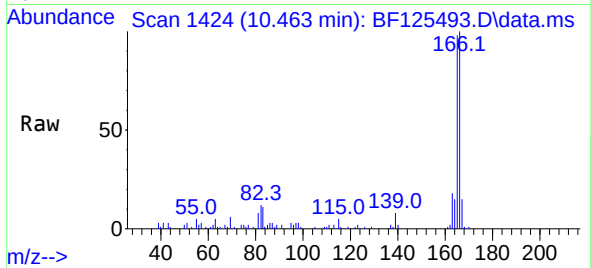
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Ion Ratio Lower Upper  
154 100  
153 112.3 89.4 134.2  
152 53.5 40.5 60.7





#58  
Fluorene  
Concen: 2.453 ng  
RT: 10.463 min Scan# 1424  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

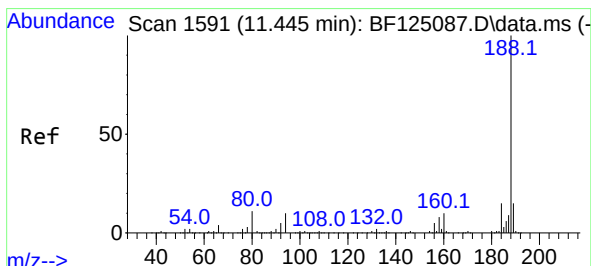
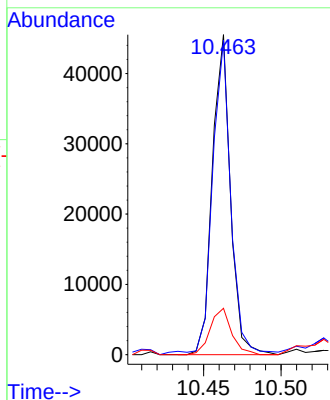
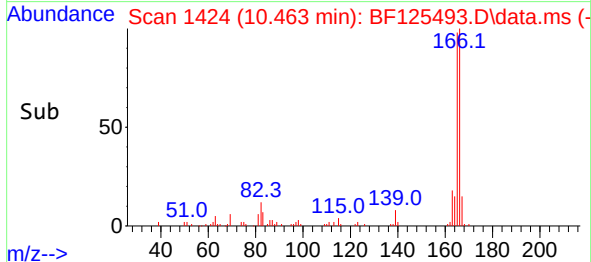
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BNA\_F  
ClientSampled :  
HR-01-091321



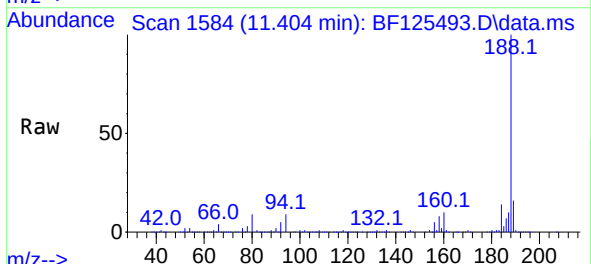
Tgt Ion:166 Resp: 36838  
Ion Ratio Lower Upper  
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165 98.3 78.1 117.1  
167 14.5 11.1 16.7

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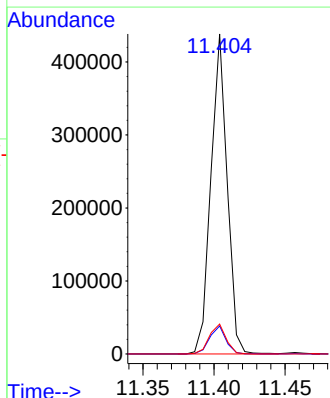
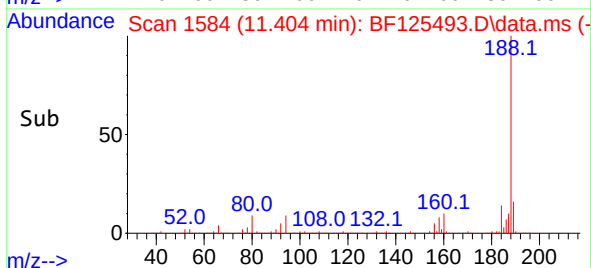
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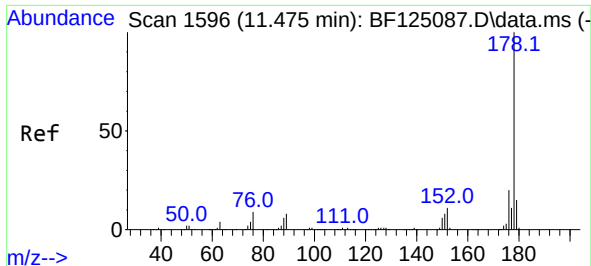
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.404 min Scan# 1584  
Delta R.T. -0.006 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27



Tgt Ion:188 Resp: 348016  
Ion Ratio Lower Upper  
188 100  
94 8.8 6.7 10.1  
80 9.4 7.5 11.3







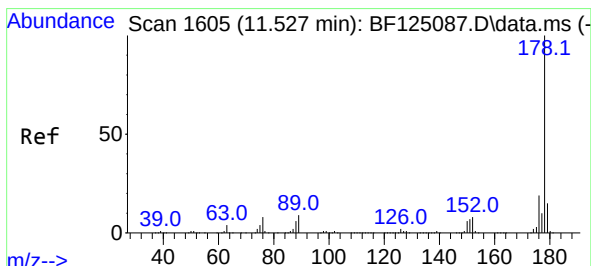
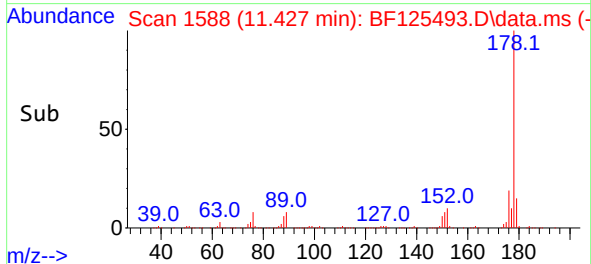
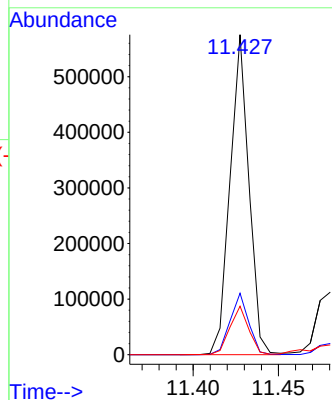
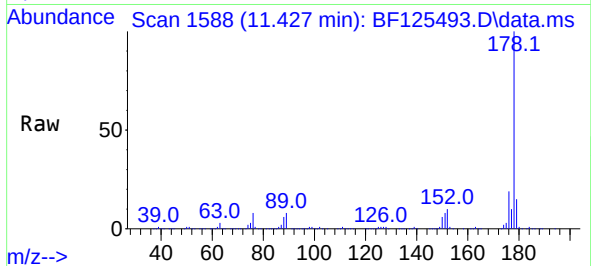
#71  
Phenanthrene  
Concen: 23.185 ng  
RT: 11.427 min Scan# 1588  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion:178 Resp: 444588  
Ion Ratio Lower Upper  
178 100  
176 19.2 14.7 22.1  
179 15.1 11.5 17.3

Instrument :  
BNA\_F  
ClientSampleId :  
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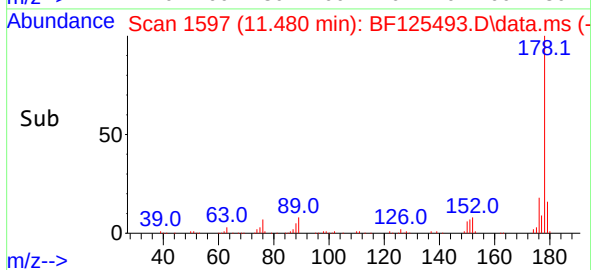
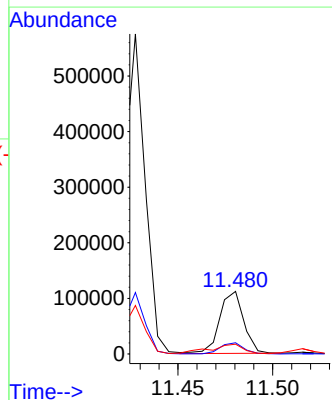
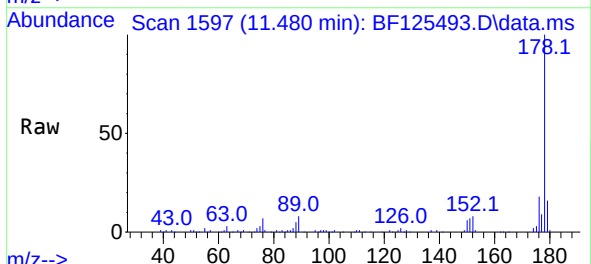
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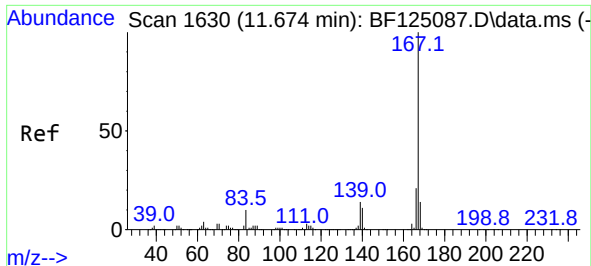
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#72  
Anthracene  
Concen: 5.218 ng  
RT: 11.480 min Scan# 1597  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

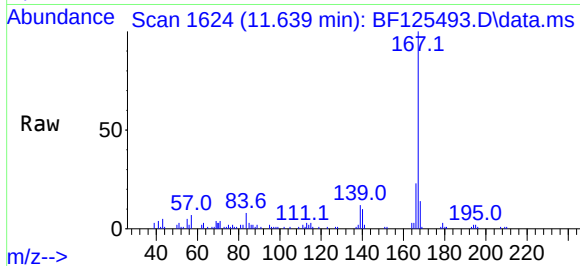
Tgt Ion:178 Resp: 98622  
Ion Ratio Lower Upper  
178 100  
176 18.0 14.3 21.5  
179 15.7 12.2 18.4





#73  
 Carbazole  
 Concen: 2.470 ng  
 RT: 11.639 min Scan# 1624  
 Delta R.T. -0.006 min  
 Lab File: BF125493.D  
 Acq: 15 Sep 2021 1:27

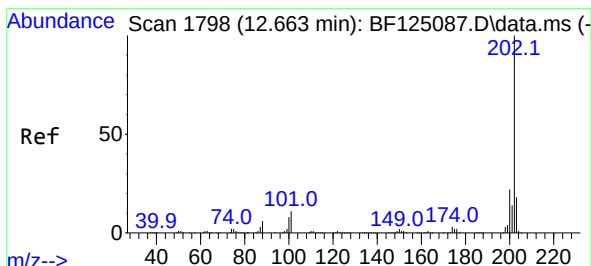
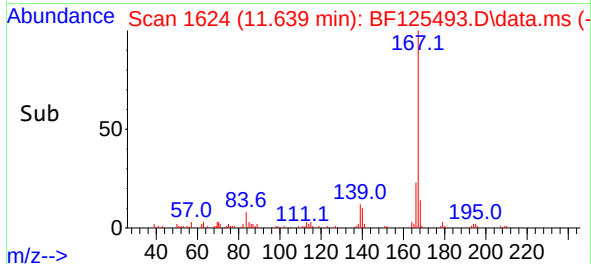
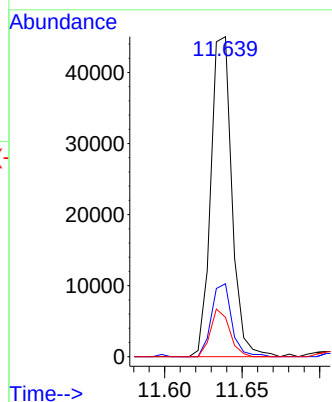
Instrument :  
 BNA\_F  
 ClientSampled :  
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Tgt Ion:167 Resp: 42668  
 Ion Ratio Lower Upper  
 167 100  
 166 22.8 17.4 26.0  
 139 12.3 11.0 16.4

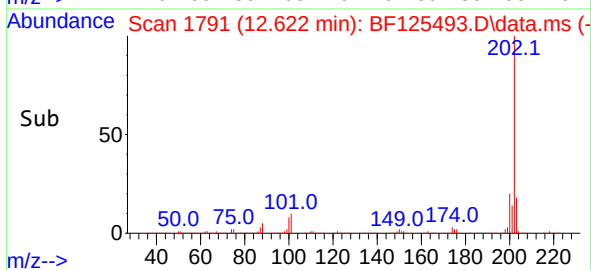
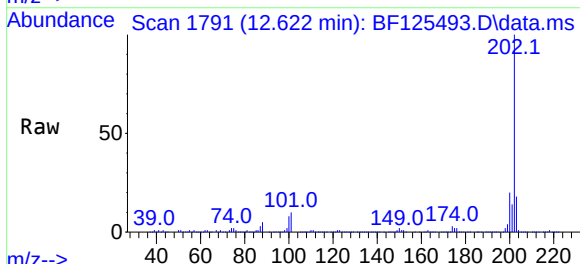
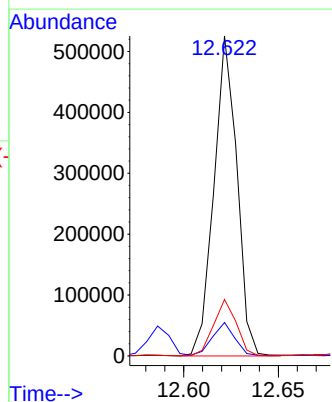
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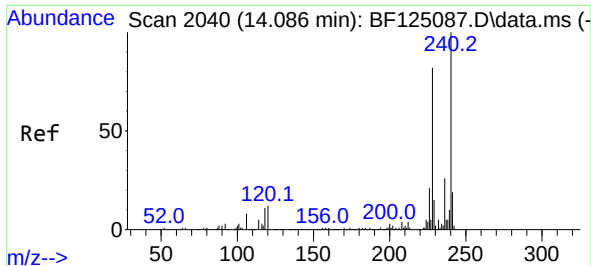
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#75  
 Fluoranthene  
 Concen: 23.347 ng  
 RT: 12.622 min Scan# 1791  
 Delta R.T. -0.006 min  
 Lab File: BF125493.D  
 Acq: 15 Sep 2021 1:27

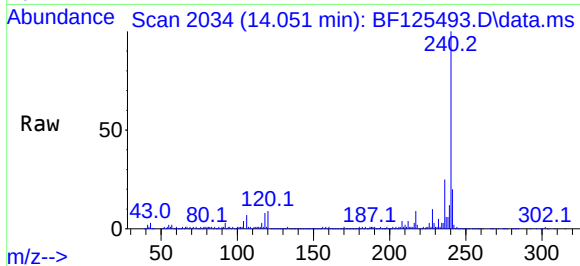
Tgt Ion:202 Resp: 444219  
 Ion Ratio Lower Upper  
 202 100  
 101 10.4 0.0 30.7  
 203 17.7 0.0 36.3





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.051 min Scan# 2034  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

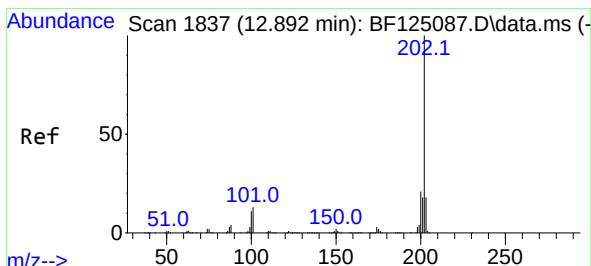
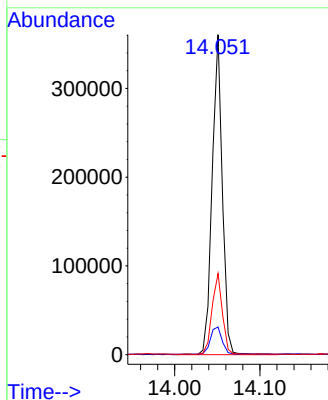
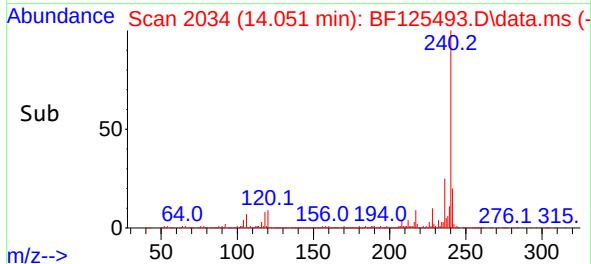
Instrument :  
BNA\_F  
ClientSampleId :  
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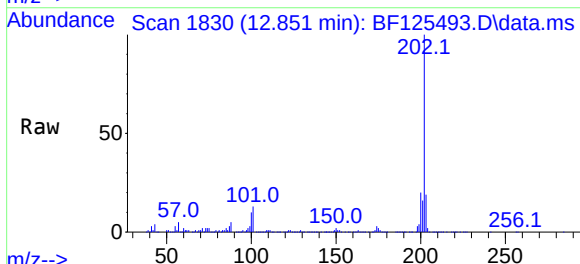
Tgt Ion:240 Resp: 300487  
Ion Ratio Lower Upper  
240 100  
120 8.7 10.8 16.2#  
236 25.4 21.6 32.4

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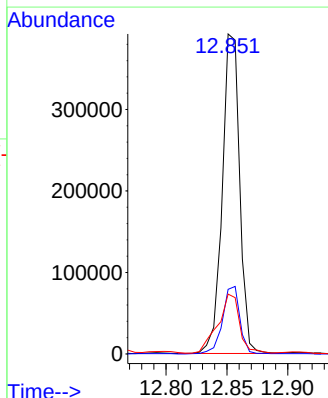
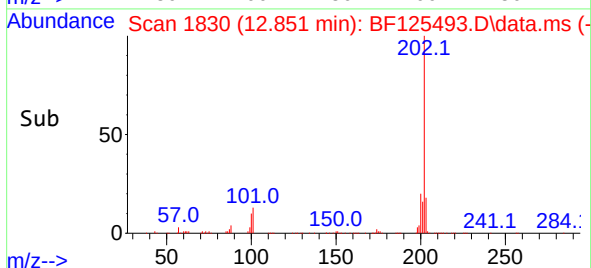
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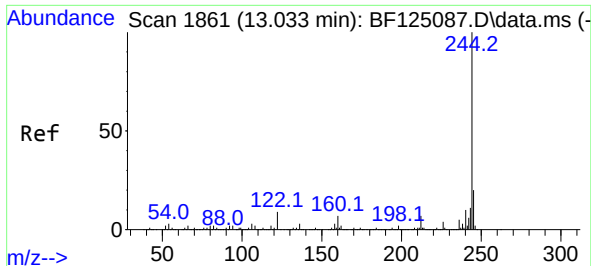


#78  
Pyrene  
Concen: 15.198 ng  
RT: 12.851 min Scan# 1830  
Delta R.T. -0.006 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27



Tgt Ion:202 Resp: 391738  
Ion Ratio Lower Upper  
202 100  
200 20.2 15.3 22.9  
203 18.7 13.4 20.0





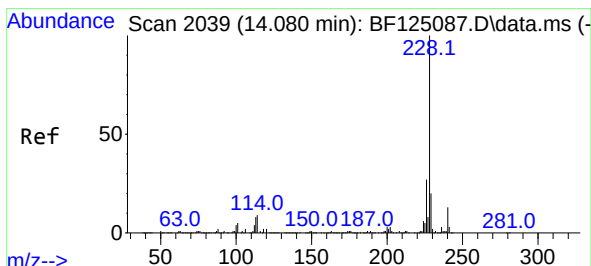
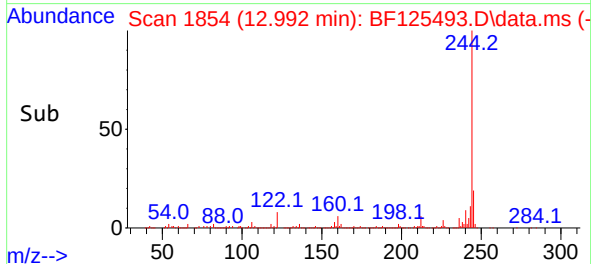
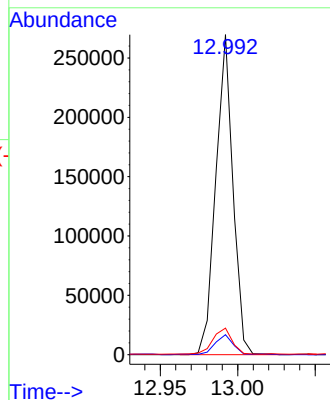
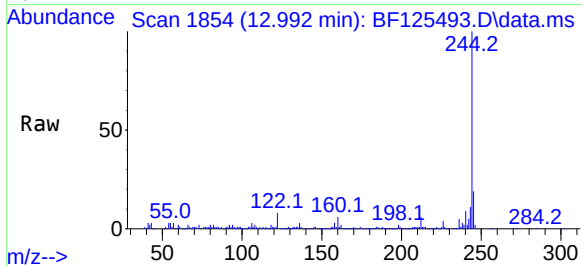
#79  
 Terphenyl-d14  
 Concen: 10.972 ng  
 RT: 12.992 min Scan# 1854  
 Delta R.T. -0.006 min  
 Lab File: BF125493.D  
 Acq: 15 Sep 2021 1:27

Tgt Ion:244 Resp: 206948  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 5.9 8.9  
 122 8.3 9.0 13.4#

Instrument :  
 BNA\_F  
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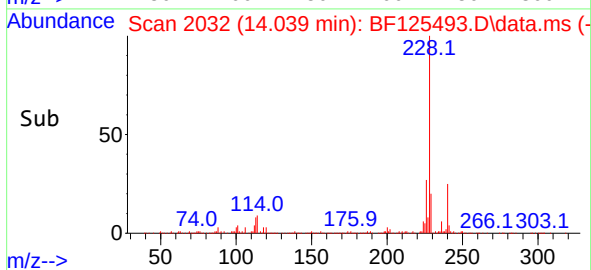
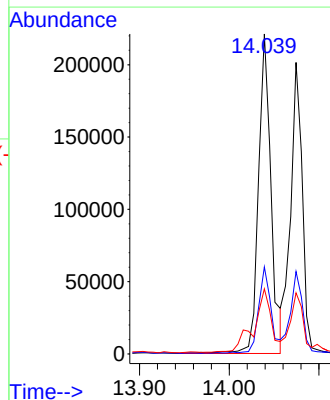
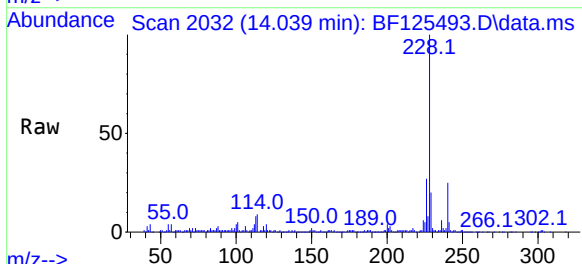
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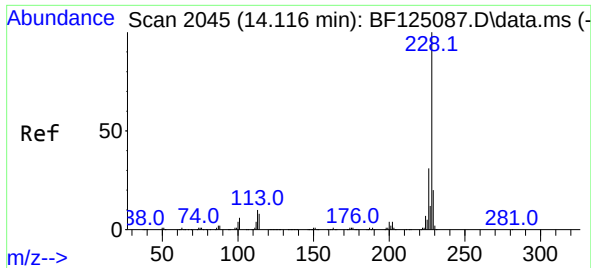
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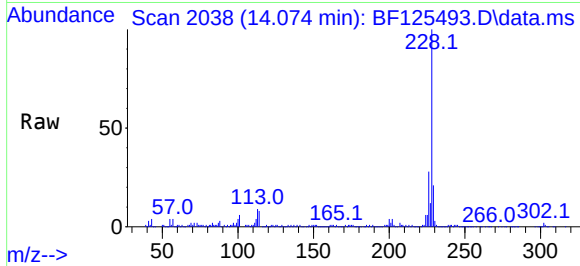
#81  
 Benzo(a)anthracene  
 Concen: 9.902 ng  
 RT: 14.039 min Scan# 2032  
 Delta R.T. -0.012 min  
 Lab File: BF125493.D  
 Acq: 15 Sep 2021 1:27

Tgt Ion:228 Resp: 214386  
 Ion Ratio Lower Upper  
 228 100  
 226 27.2 21.6 32.4  
 229 20.4 15.6 23.4

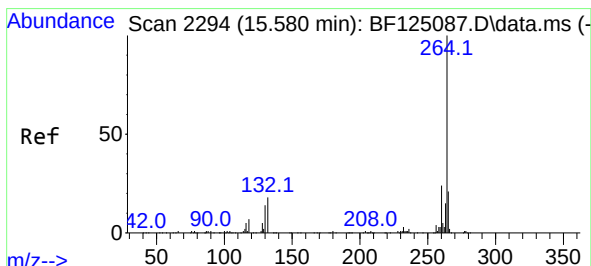
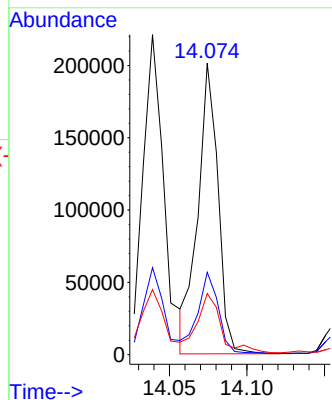
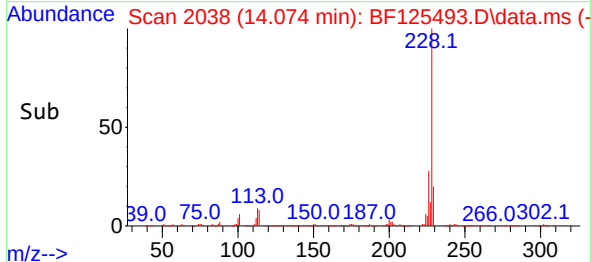




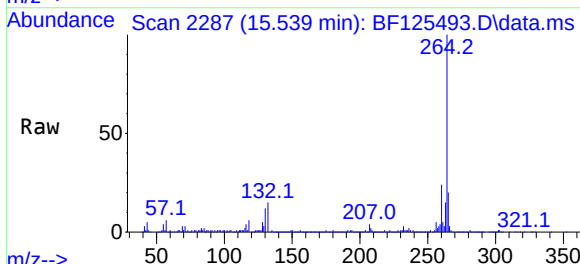
#83  
Chrysene  
Concen: 8.478 ng  
RT: 14.074 min Scan# 2038  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27



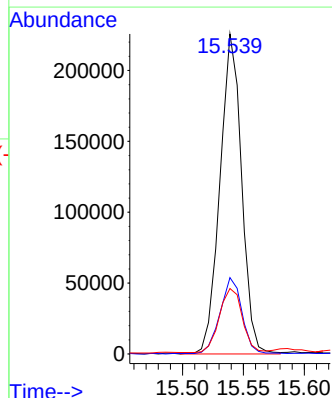
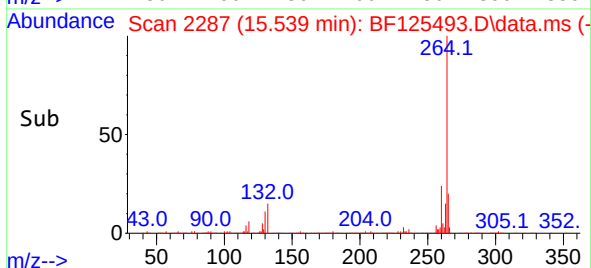
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 181525 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 28.3  | 22.6  | 34.0   |
| 229       | 21.0  | 15.9  | 23.9   |



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.539 min Scan# 2287  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27



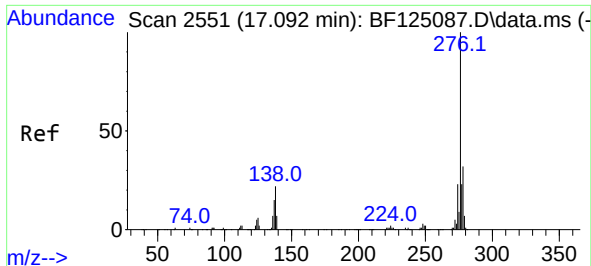
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 279897 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.9  | 19.6  | 29.4   |
| 265       | 20.5  | 17.2  | 25.8   |



Instrument :  
BNA\_F  
ClientSampleId :  
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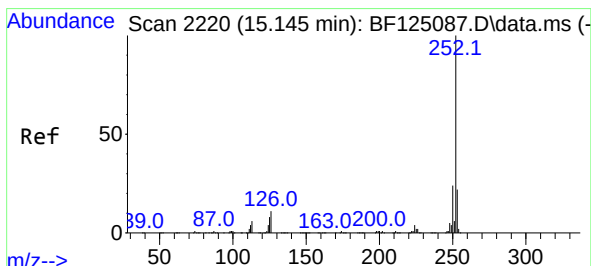
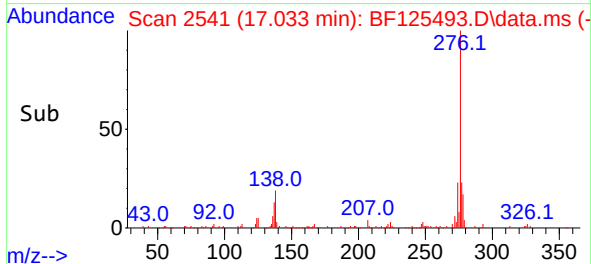
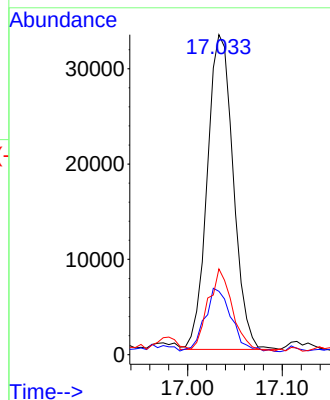
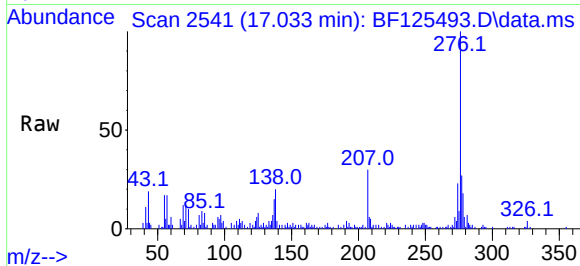
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.126 ng  
RT: 17.033 min Scan# 2541  
Delta R.T. -0.029 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion: 276 Resp: 63043  
Ion Ratio Lower Upper  
276 100  
138 20.6 24.1 36.1#  
277 24.4 18.8 28.2

Instrument :  
BNA\_F  
ClientSampleId :  
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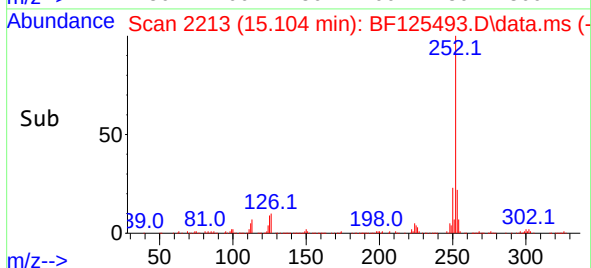
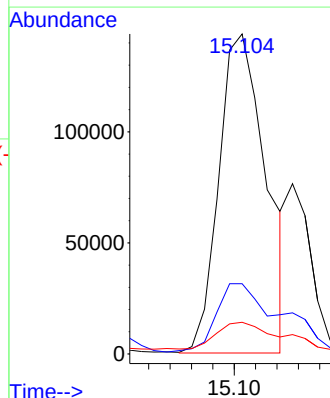
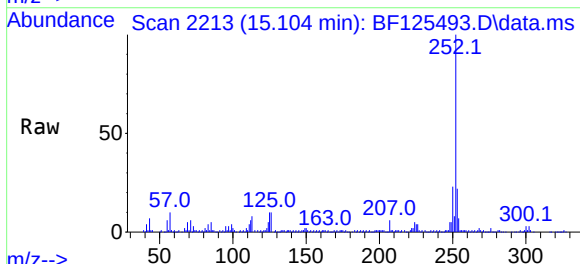
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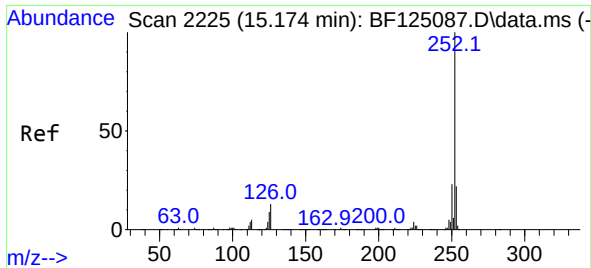
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#88  
Benzo(b)fluoranthene  
Concen: 10.770 ng m  
RT: 15.104 min Scan# 2213  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion: 252 Resp: 220235  
Ion Ratio Lower Upper  
252 100  
253 22.0 16.8 25.2  
125 9.9 9.8 14.8





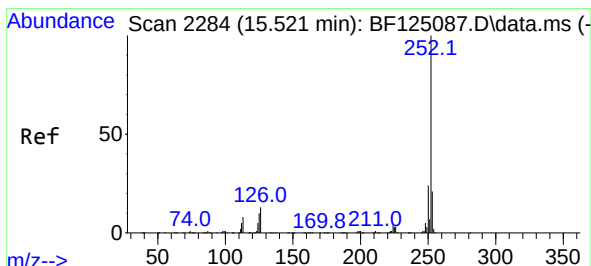
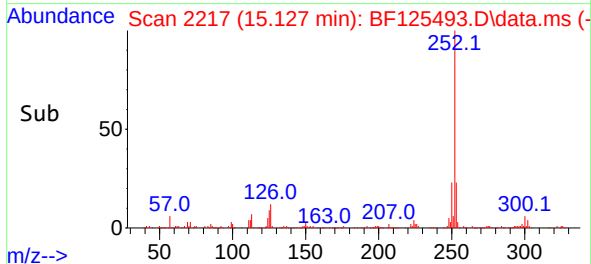
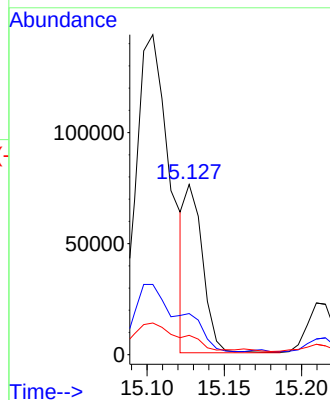
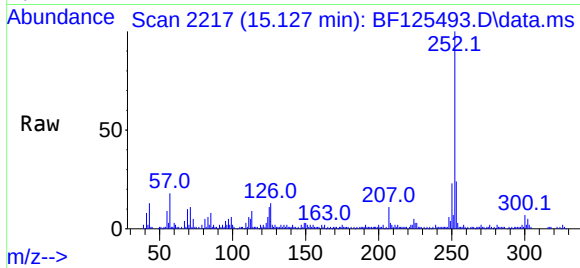
#89  
Benzo(k)fluoranthene  
Concen: 3.122 ng m  
RT: 15.127 min Scan# 2217  
Delta R.T. -0.018 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion: 252 Resp: 59574  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.8 26.8  
125 11.4 7.2 10.8#

Instrument :  
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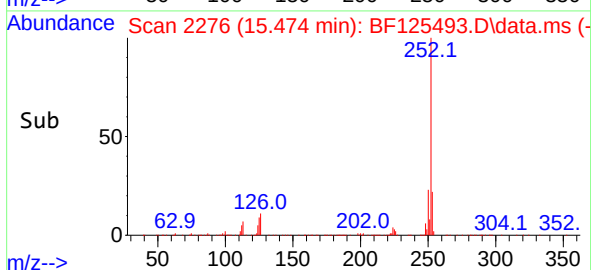
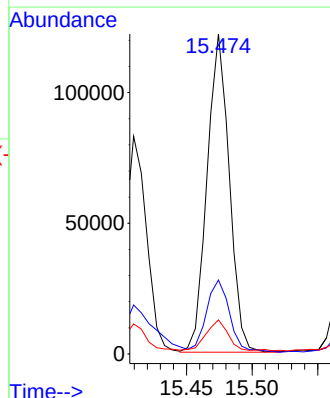
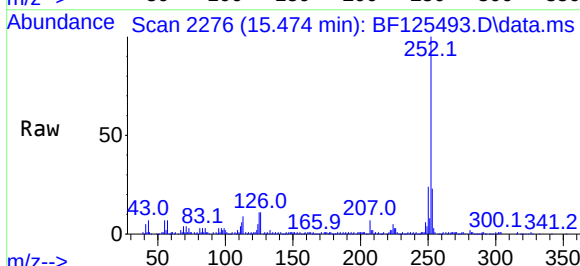
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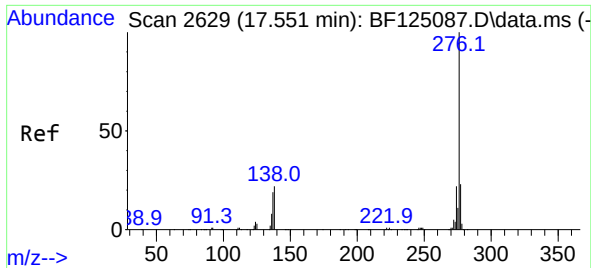
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#90  
Benzo(a)pyrene  
Concen: 7.954 ng  
RT: 15.474 min Scan# 2276  
Delta R.T. -0.012 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

Tgt Ion: 252 Resp: 143674  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.4 27.6  
125 10.7 9.9 14.9





#92  
Benzo(g,h,i)perylene  
Concen: 3.449 ng m  
RT: 17.492 min Scan# 2619  
Delta R.T. -0.029 min  
Lab File: BF125493.D  
Acq: 15 Sep 2021 1:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.9  | 22.0  | 33.0  |
| 138     | 20.5  | 22.2  | 33.4# |

Instrument :  
BNA\_F  
ClientSampleId :  
HR-01-091321

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