

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121620\  
 Data File : BF122753.D  
 Acq On : 16 Dec 2020 16:45  
 Operator : JU/CG  
 Sample : L5092-01 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-02-12142020

Manual Integrations  
 APPROVED

mohammad  
 12/17/2020 11:38:31 AM

Quant Time: Dec 17 01:12:45 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 15 18:14:23 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.816  | 152  | 207079   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.104  | 136  | 758075   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.857  | 164  | 390499   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.345 | 188  | 642358   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.986 | 240  | 464893   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.445 | 264  | 477423   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.428  | 112  | 495249   | 37.86 | ng    | 0.00     |
| 7) Phenol-d6                | 6.445  | 99   | 630369   | 36.34 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.375  | 82   | 374119   | 24.73 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.645 | 330  | 176434   | 34.52 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.180  | 172  | 696202   | 24.11 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.927 | 244  | 603976   | 22.74 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 8.122  | 128  | 109123   | 2.61  | ng    | 97       |
| 37) 2-Methylnaphthalene     | 8.816  | 142  | 61103m   | 2.21  | ng    |          |
| 38) 1-Methylnaphthalene     | 8.916  | 142  | 80161    | 3.06  | ng    | # 98     |
| 50) Dimethylphthalate       | 9.569  | 163  | 103455   | 3.32  | ng    | # 90     |
| 71) Phenanthrene            | 11.363 | 178  | 237307   | 6.22  | ng    | 98       |
| 72) Anthracene              | 11.416 | 178  | 88630    | 2.34  | ng    | 99       |
| 75) Fluoranthene            | 12.557 | 202  | 301928   | 7.54  | ng    | 100      |
| 78) Pyrene                  | 12.786 | 202  | 498745   | 13.88 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.974 | 228  | 173812   | 5.59  | ng    | 94       |
| 83) Chrysene                | 14.009 | 228  | 183026   | 5.92  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.886 | 276  | 80182    | 2.56  | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 15.021 | 252  | 190044m  | 5.67  | ng    |          |
| 90) Benzo(a)pyrene          | 15.380 | 252  | 159234   | 5.43  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 17.321 | 276  | 99262    | 4.00  | ng    | 96       |
| -----                       |        |      |          |       |       |          |

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

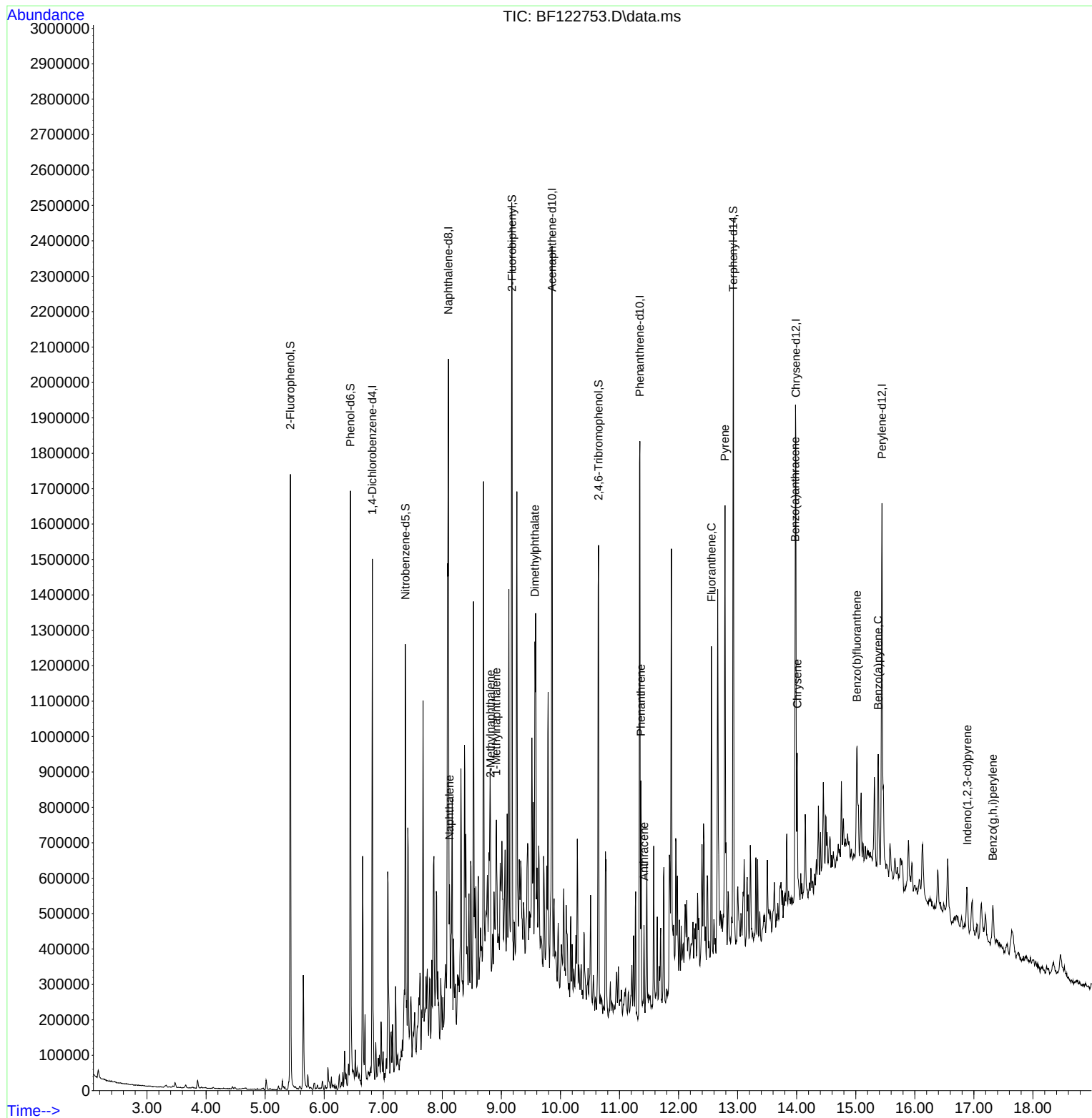
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121620\  
Data File : BF122753.D  
Acq On : 16 Dec 2020 16:45  
Operator : JU/CG  
Sample : L5092-01 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

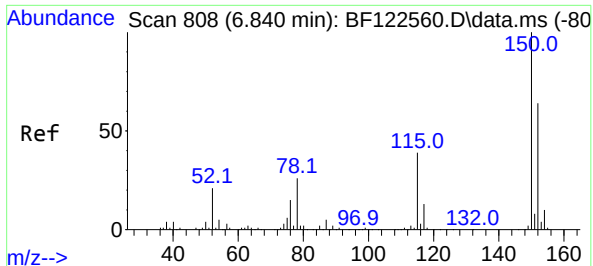
Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020

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Quant Time: Dec 17 01:12:45 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 15 18:14:23 2020  
Response via : Initial Calibration





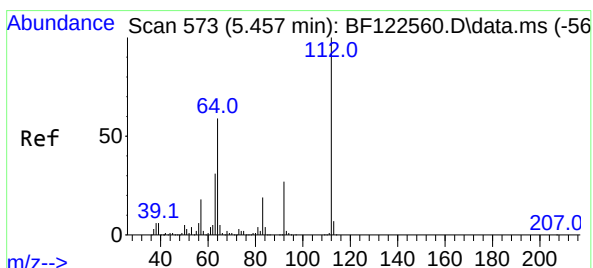
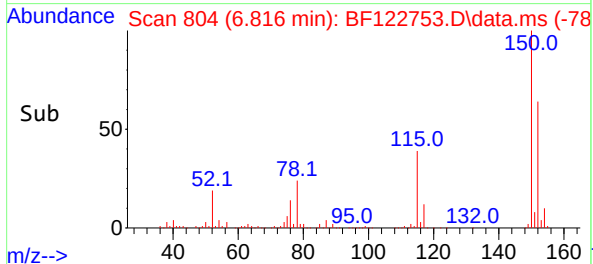
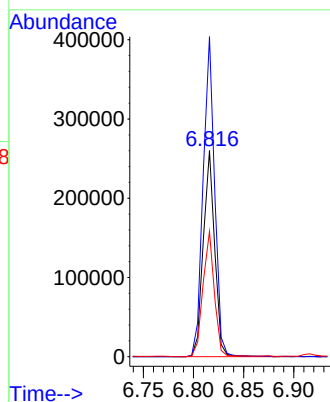
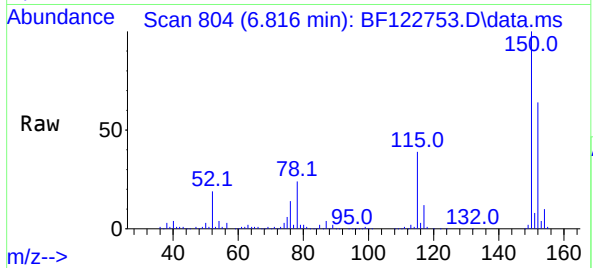
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.816 min Scan# 804  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion:152 Resp: 207079  
Ion Ratio Lower Upper  
152 100  
150 155.3 125.8 188.6  
115 60.8 49.3 73.9

Instrument :  
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ClientSampleId :  
HR-02-12142020

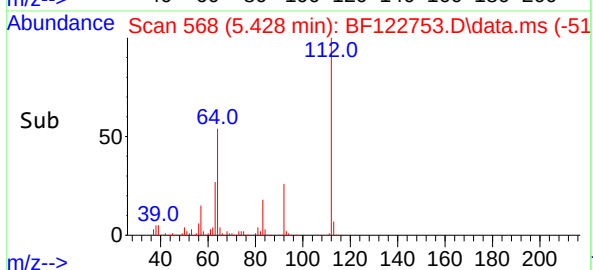
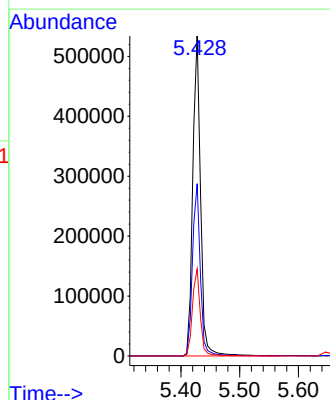
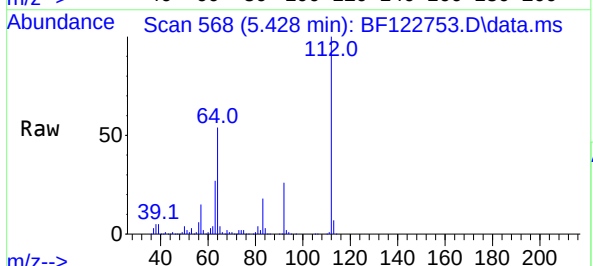
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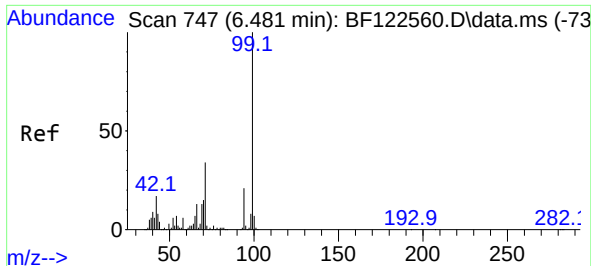
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#5  
2-Fluorophenol  
Concen: 37.86 ng  
RT: 5.428 min Scan# 568  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion:112 Resp: 495249  
Ion Ratio Lower Upper  
112 100  
64 53.9 46.9 70.3  
63 27.2 24.5 36.7





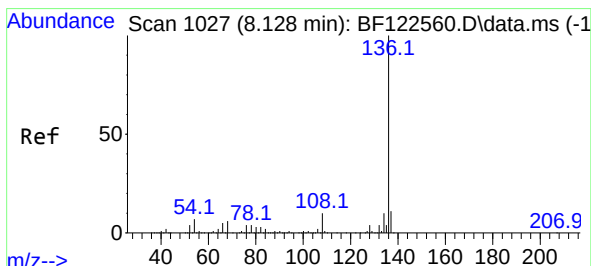
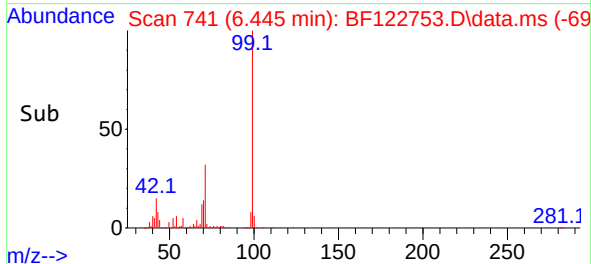
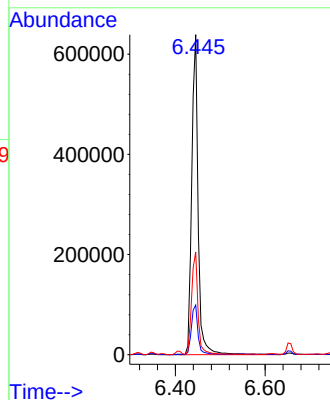
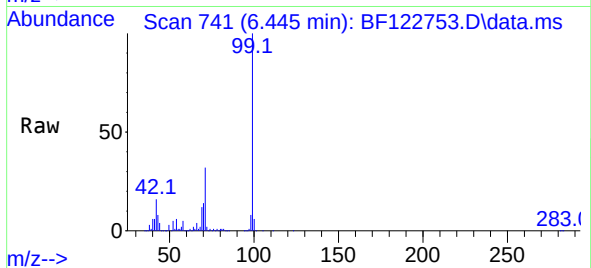
#7  
Phenol-d6  
Concen: 36.34 ng  
RT: 6.445 min Scan# 741  
Delta R.T. -0.012 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion: 99 Resp: 630369  
Ion Ratio Lower Upper  
99 100  
42 15.5 13.8 20.6  
71 32.1 26.9 40.3

Instrument :  
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HR-02-12142020

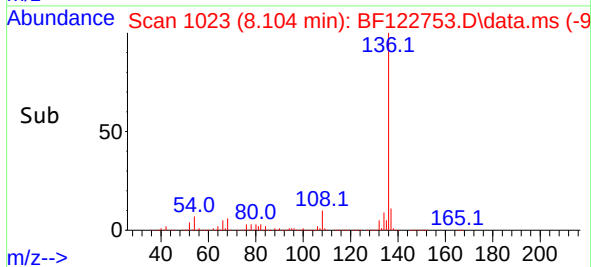
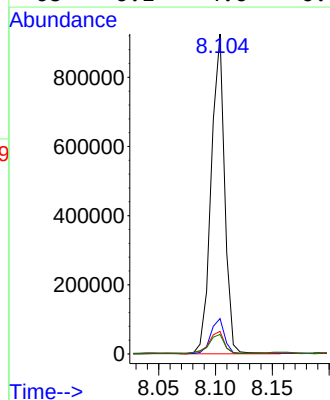
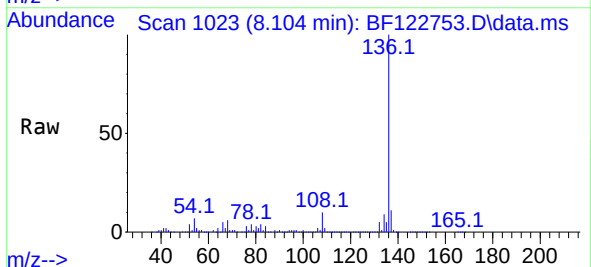
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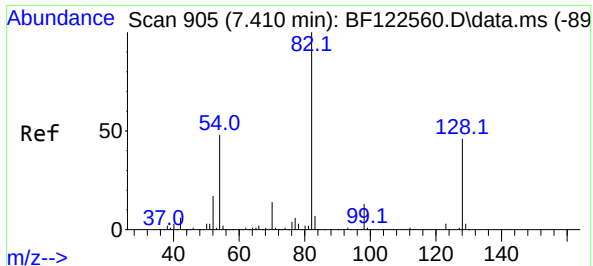
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#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion: 136 Resp: 758075  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.8 13.2  
54 7.0 5.5 8.3  
68 6.1 4.6 6.8





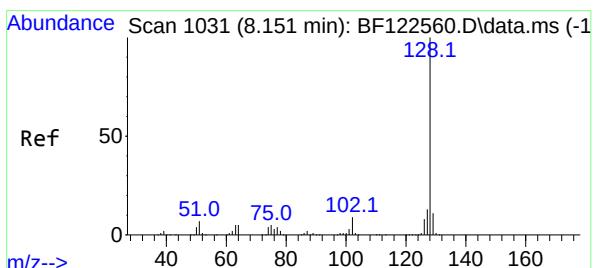
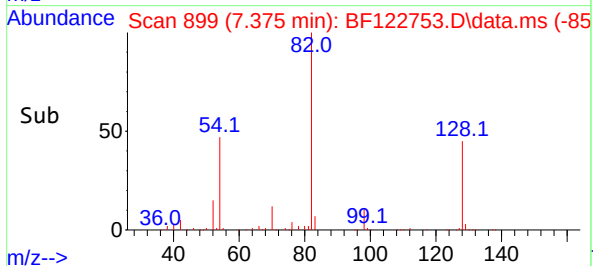
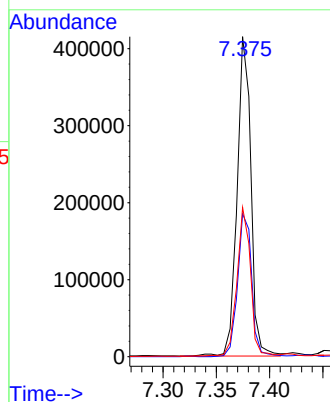
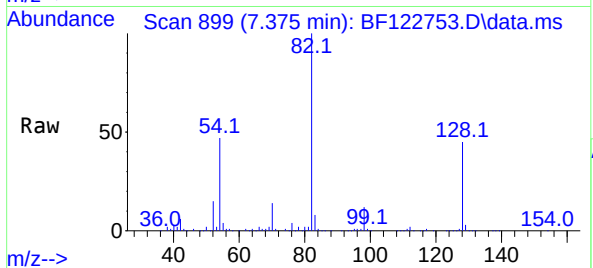
#23  
Nitrobenzene-d5  
Concen: 24.73 ng  
RT: 7.375 min Scan# 899  
Delta R.T. -0.018 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion: 82 Resp: 374119  
Ion Ratio Lower Upper  
82 100  
128 44.7 37.0 55.4  
54 46.7 38.4 57.6

Instrument :  
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HR-02-12142020

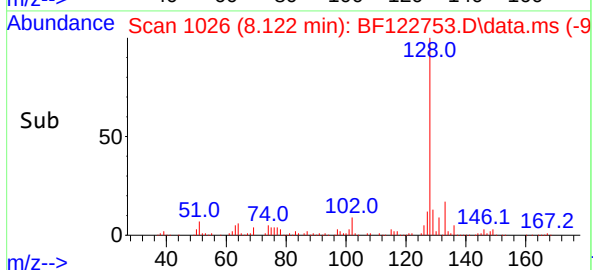
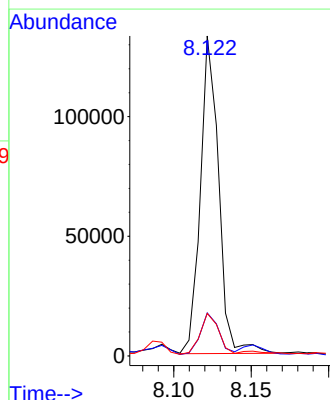
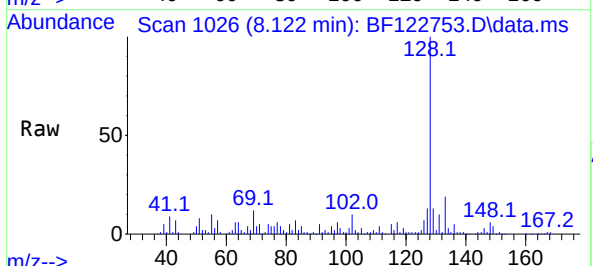
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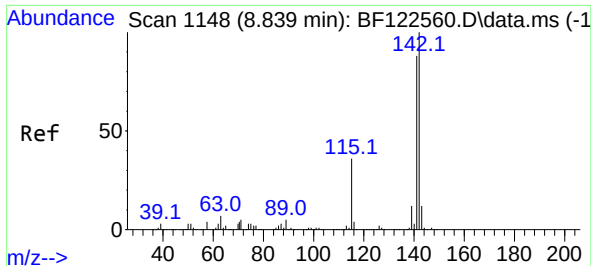
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#31  
Naphthalene  
Concen: 2.61 ng  
RT: 8.122 min Scan# 1026  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion: 128 Resp: 109123  
Ion Ratio Lower Upper  
128 100  
129 13.5 9.0 13.6  
127 13.3 10.7 16.1





#37

2-Methylnaphthalene

Concen: 2.21 ng m

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF122753.D

Acq: 16 Dec 2020 16:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 61103 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 87.6  | 70.6  | 106.0 |
| 115       | 68.4  | 28.7  | 43.1# |

Instrument :

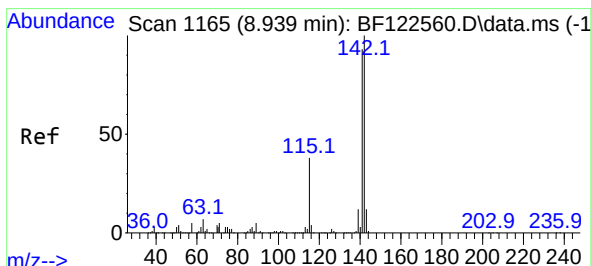
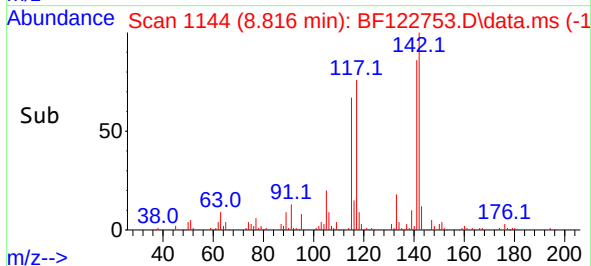
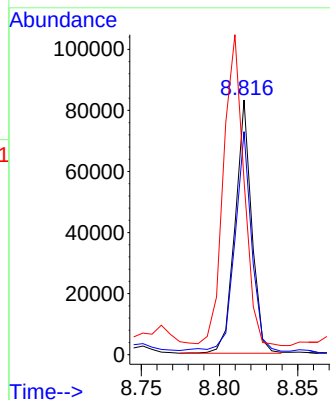
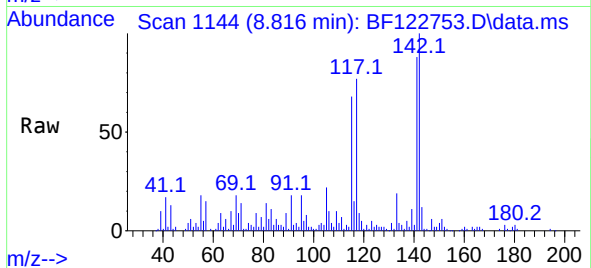
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ClientSampleId :

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#38

1-Methylnaphthalene

Concen: 3.06 ng

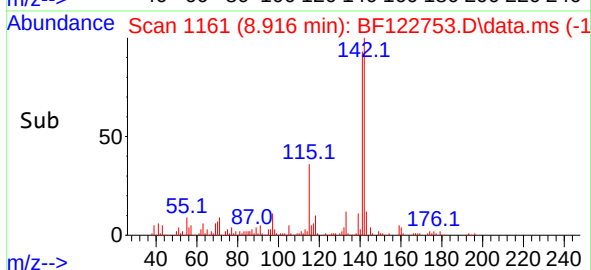
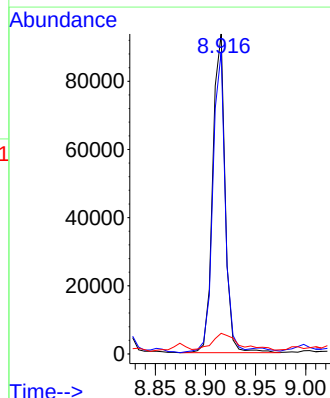
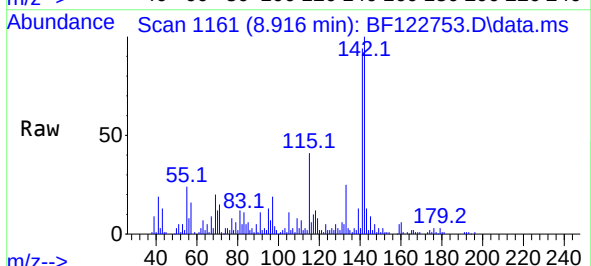
RT: 8.916 min Scan# 1161

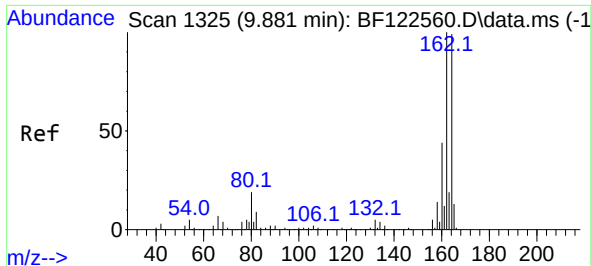
Delta R.T. -0.006 min

Lab File: BF122753.D

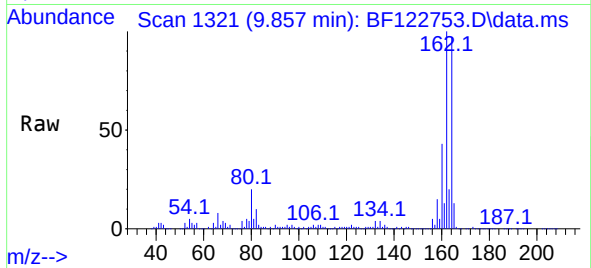
Acq: 16 Dec 2020 16:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 80161 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 94.3  | 74.5  | 111.7 |
| 116       | 6.4   | 3.2   | 4.8#  |

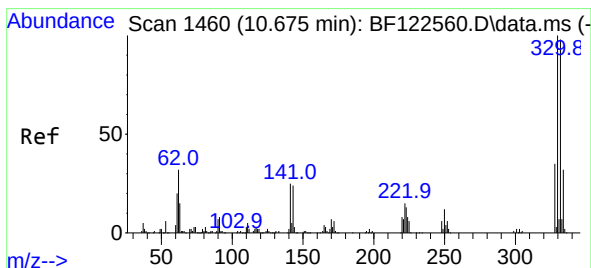
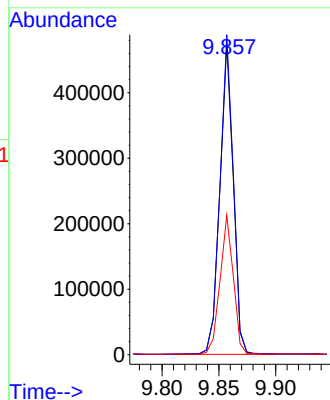
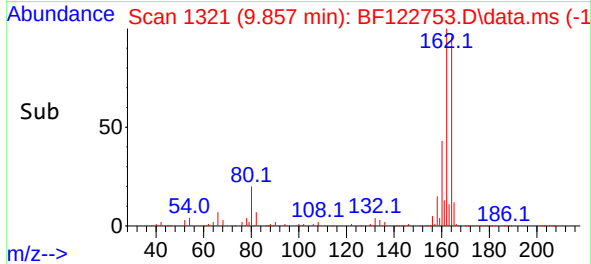




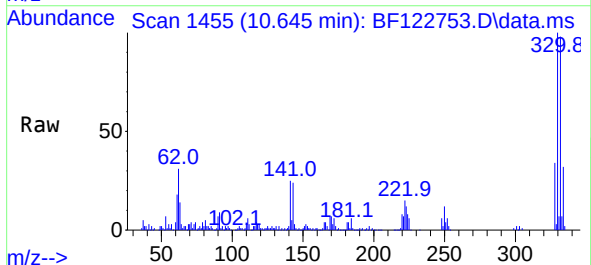
#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.857 min Scan# 1321  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45



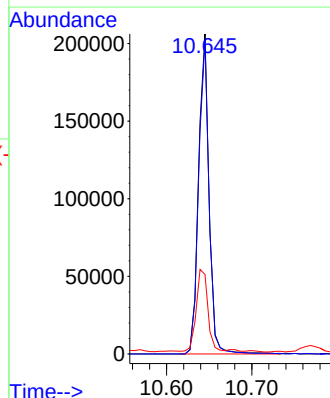
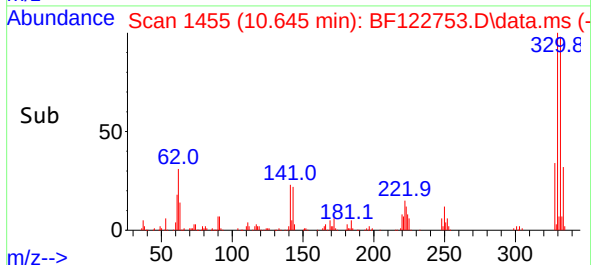
Tgt Ion:164 Resp: 390499  
Ion Ratio Lower Upper  
164 100  
162 103.1 80.8 121.2  
160 44.8 35.4 53.0



#42  
2,4,6-Tribromophenol  
Concen: 34.52 ng  
RT: 10.645 min Scan# 1455  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45



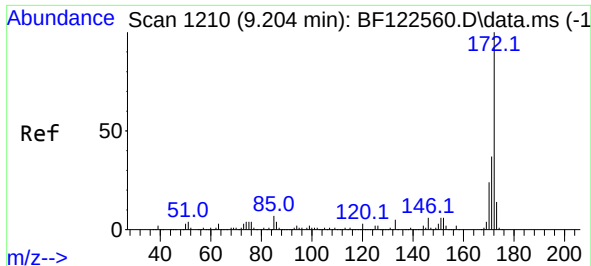
Tgt Ion:330 Resp: 176434  
Ion Ratio Lower Upper  
330 100  
332 97.1 77.5 116.3  
141 27.9 23.8 35.8



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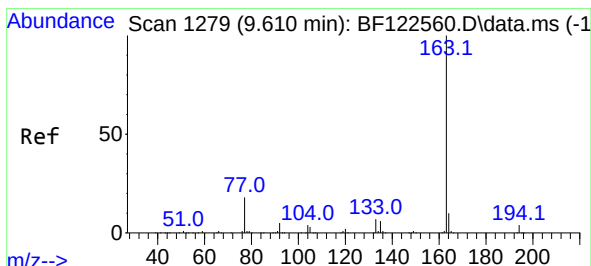
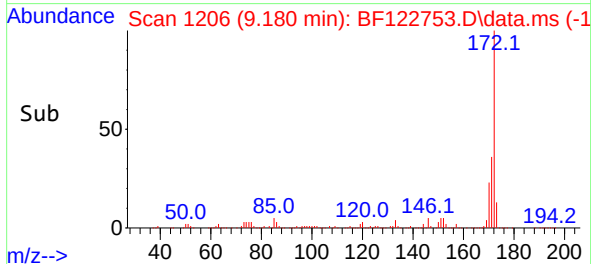
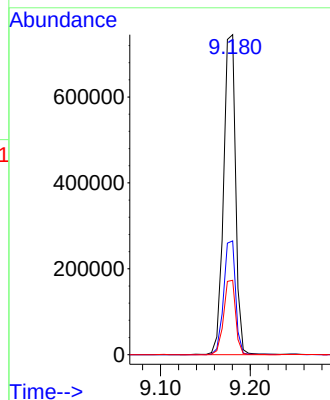
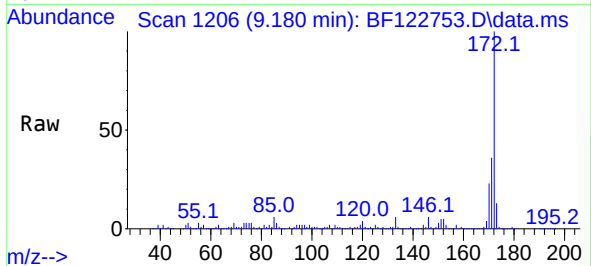
#45  
2-Fluorobiphenyl  
Concen: 24.11 ng  
RT: 9.180 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion:172 Resp: 696202  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.6 44.4  
170 23.2 19.5 29.3

Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020

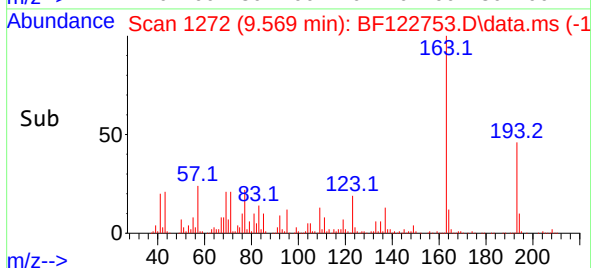
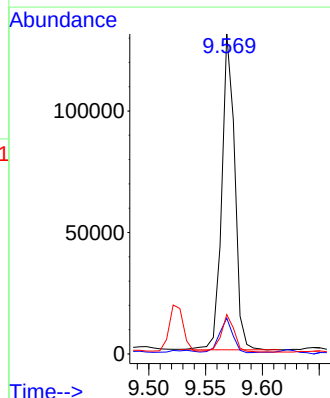
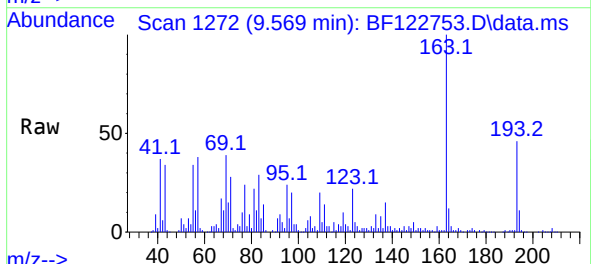
Manual Integrations  
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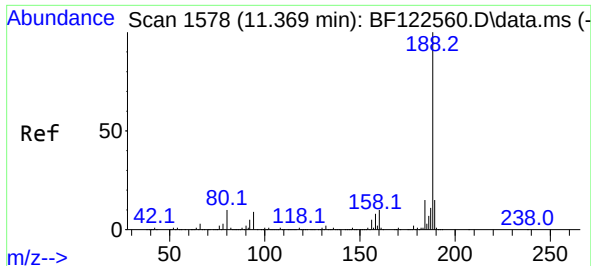


#50  
Dimethylphthalate  
Concen: 3.32 ng  
RT: 9.569 min Scan# 1272  
Delta R.T. -0.018 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion:163 Resp: 103455  
Ion Ratio Lower Upper  
163 100  
194 11.2 3.4 5.0#  
164 12.3 8.1 12.1#

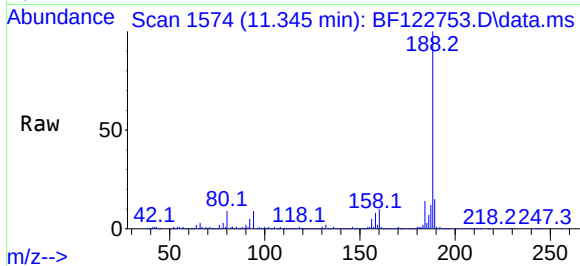






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Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.345 min Scan# 1574  
Delta R.T. -0.000 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

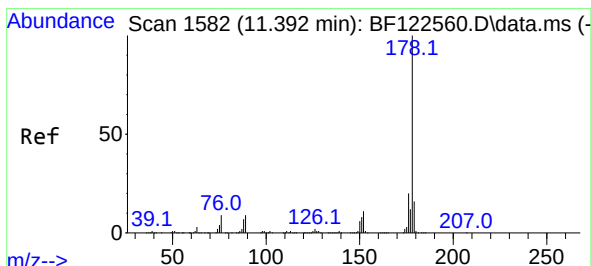
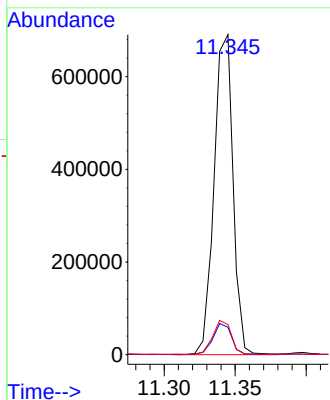
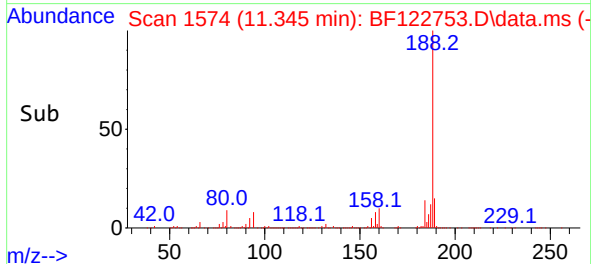
Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020



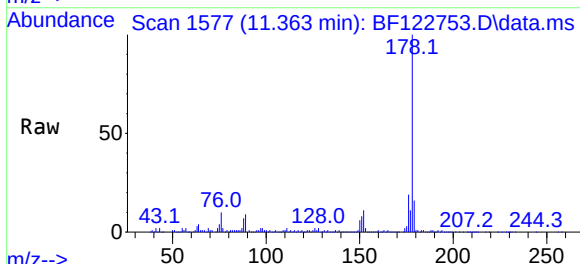
Tgt Ion:188 Resp: 642358  
Ion Ratio Lower Upper  
188 100  
94 8.6 7.4 11.2  
80 9.4 8.2 12.4

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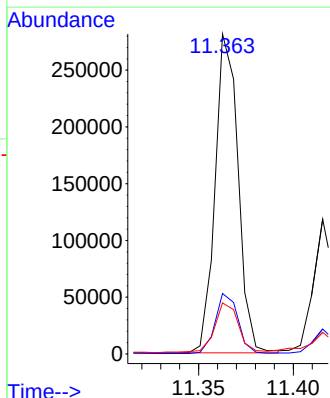
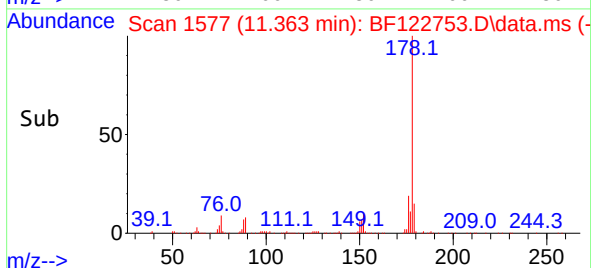
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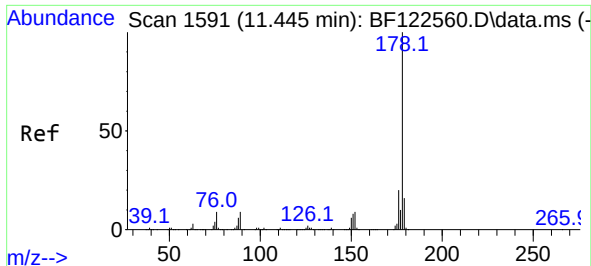


#71  
Phenanthrene  
Concen: 6.22 ng  
RT: 11.363 min Scan# 1577  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45



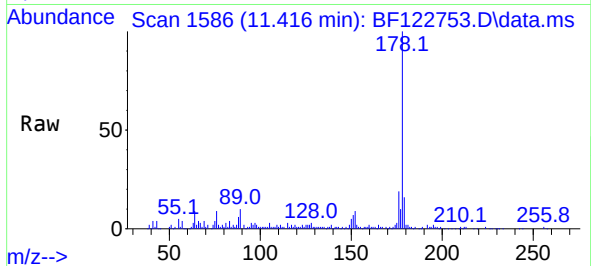
Tgt Ion:178 Resp: 237307  
Ion Ratio Lower Upper  
178 100  
176 18.9 16.2 24.2  
179 15.9 12.7 19.1





#72  
 Anthracene  
 Concen: 2.34 ng  
 RT: 11.416 min Scan# 1586  
 Delta R.T. -0.006 min  
 Lab File: BF122753.D  
 Acq: 16 Dec 2020 16:45

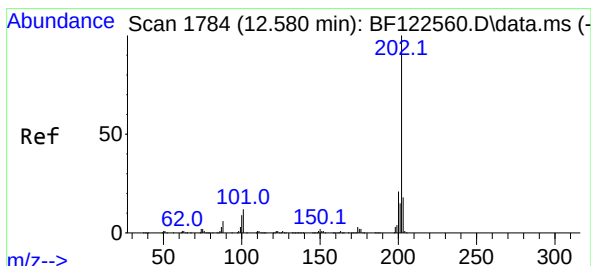
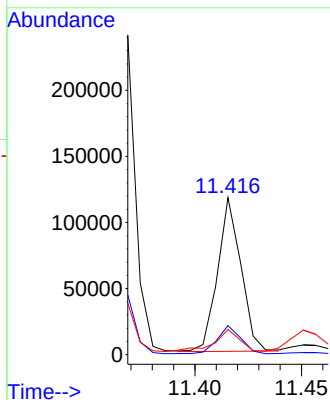
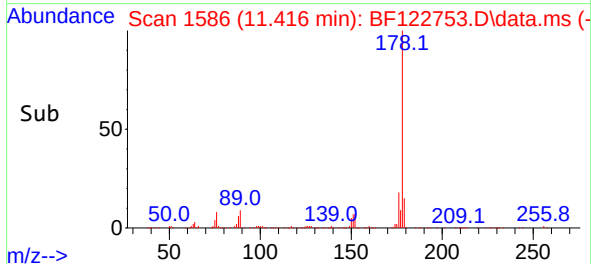
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-02-12142020



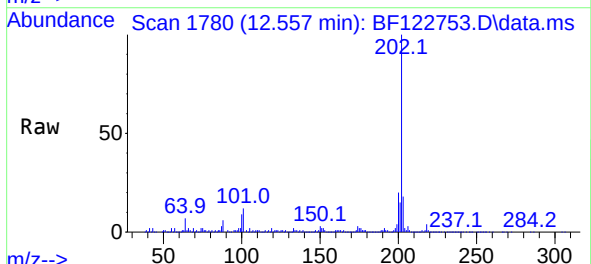
Tgt Ion:178 Resp: 88630  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 15.6 23.4  
 179 16.1 12.8 19.2

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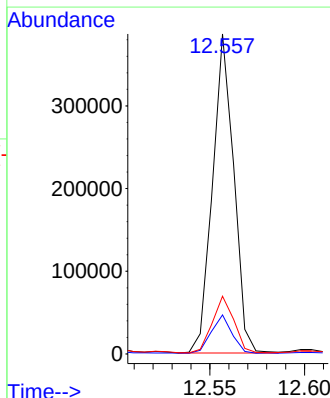
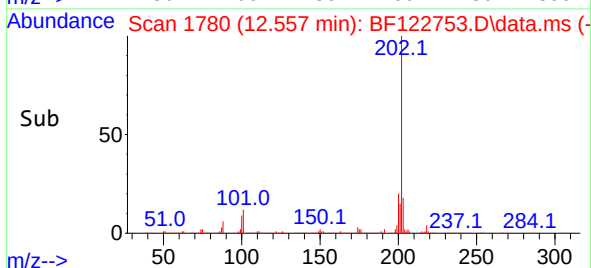
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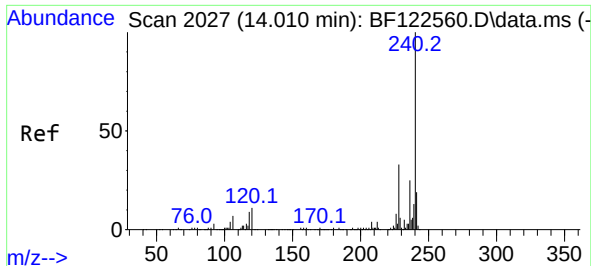


#75  
 Fluoranthene  
 Concen: 7.54 ng  
 RT: 12.557 min Scan# 1780  
 Delta R.T. -0.000 min  
 Lab File: BF122753.D  
 Acq: 16 Dec 2020 16:45

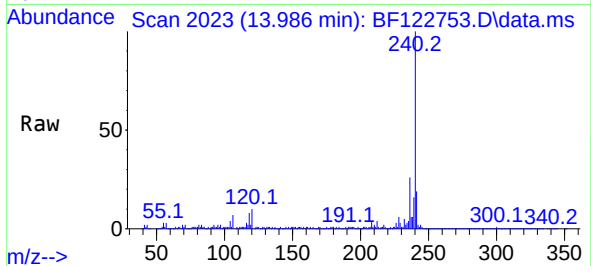


Tgt Ion:202 Resp: 301928  
 Ion Ratio Lower Upper  
 202 100  
 101 12.2 0.0 32.2  
 203 18.0 0.0 38.1

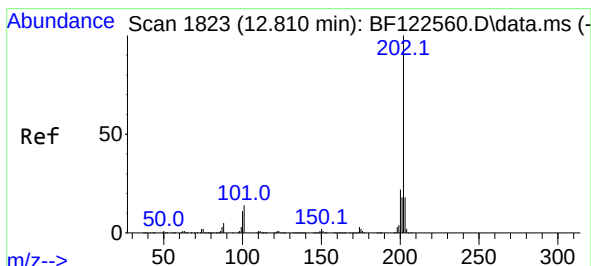
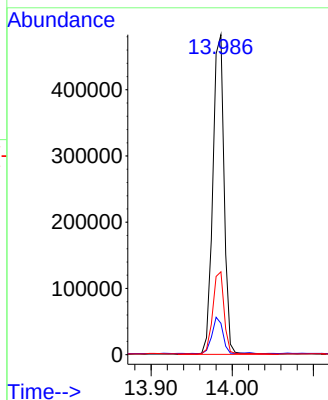
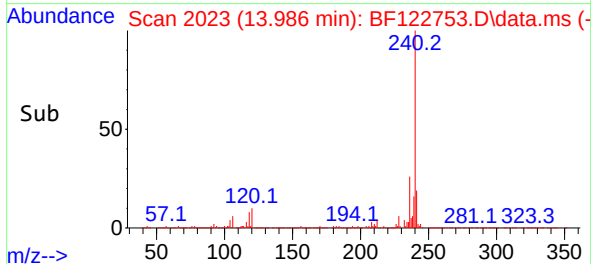




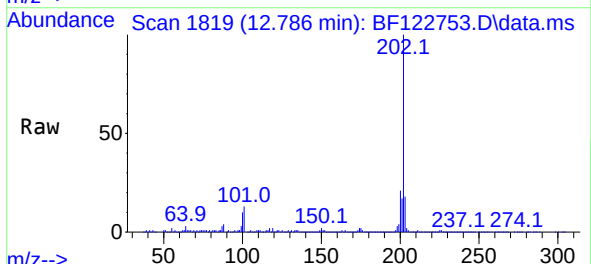
#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.986 min Scan# 2023  
Delta R.T. -0.000 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45



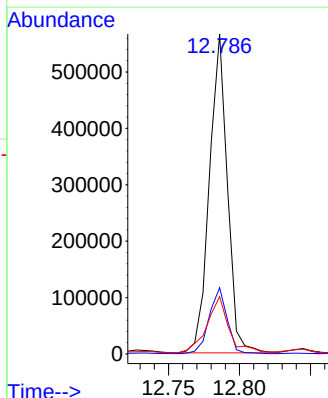
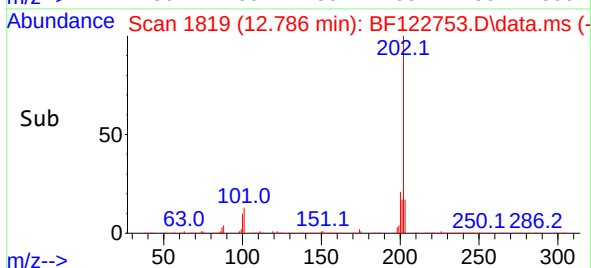
Tgt Ion:240 Resp: 464893  
Ion Ratio Lower Upper  
240 100  
120 9.8 8.6 12.8  
236 25.9 20.3 30.5



#78  
Pyrene  
Concen: 13.88 ng  
RT: 12.786 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45



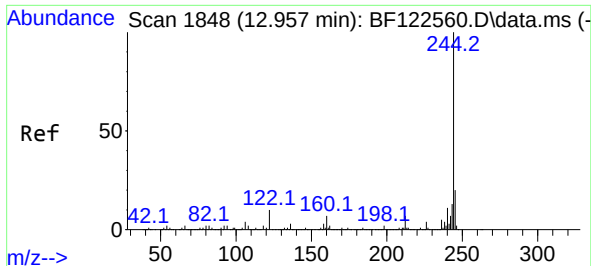
Tgt Ion:202 Resp: 498745  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.6 26.4  
203 17.9 14.6 21.8



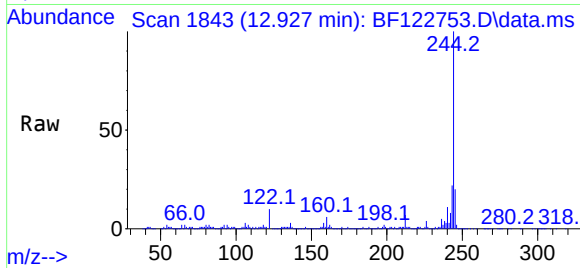
Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020

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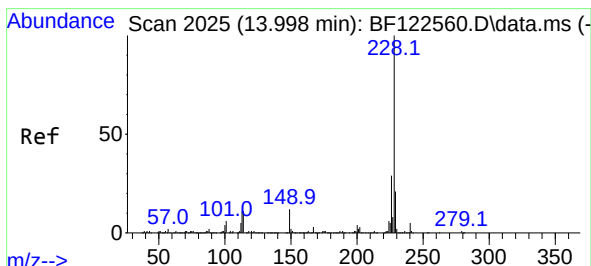
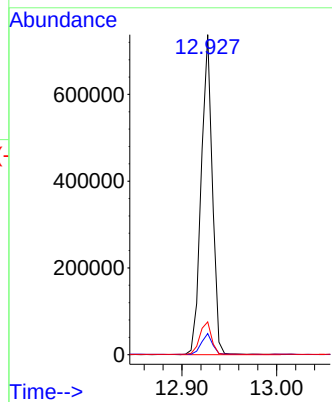
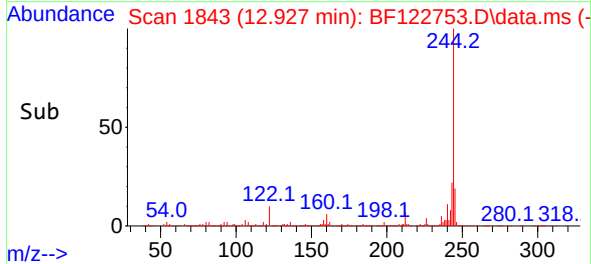
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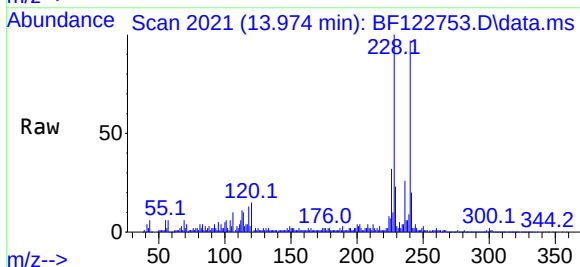
#79  
Terphenyl-d14  
Concen: 22.74 ng  
RT: 12.927 min Scan# 1843  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45



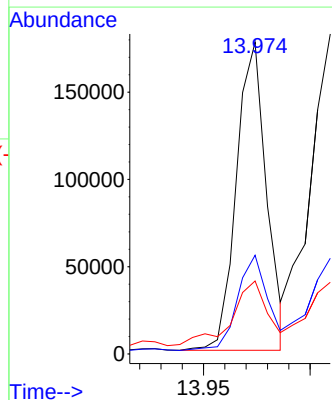
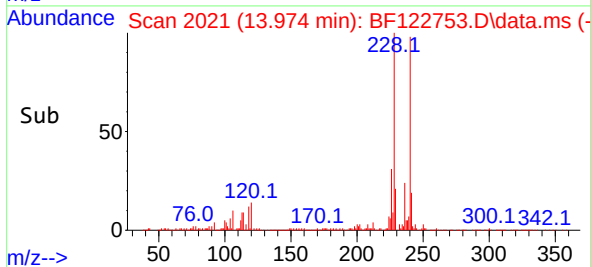
Tgt Ion:244 Resp: 603976  
Ion Ratio Lower Upper  
244 100  
212 6.6 5.7 8.5  
122 10.2 8.3 12.5



#81  
Benzo(a)anthracene  
Concen: 5.59 ng  
RT: 13.974 min Scan# 2021  
Delta R.T. -0.000 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45



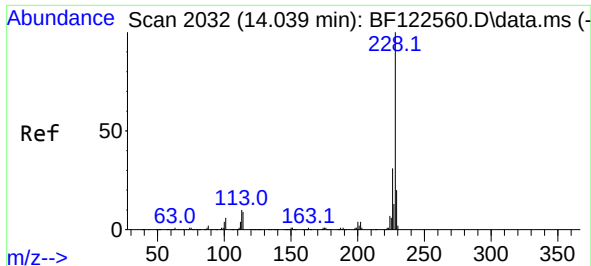
Tgt Ion:228 Resp: 173812  
Ion Ratio Lower Upper  
228 100  
226 31.7 23.0 34.4  
229 23.4 16.6 24.8



Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020

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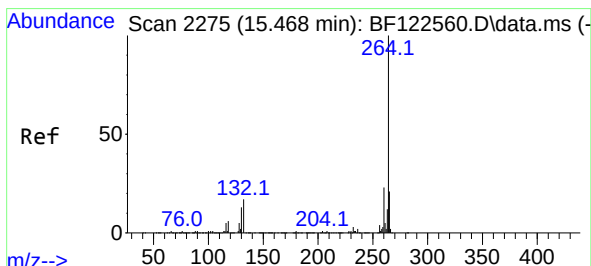
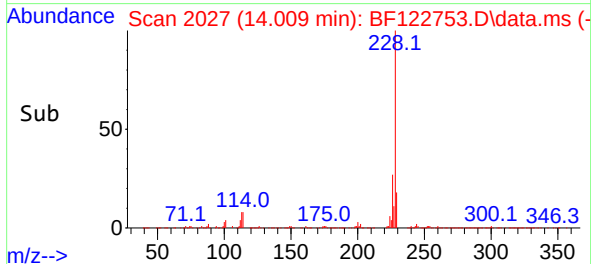
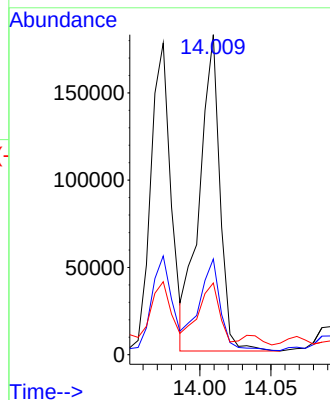
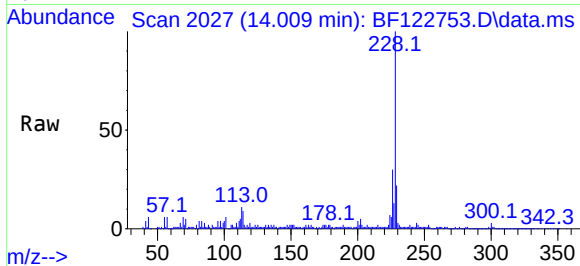
#83  
Chrysene  
Concen: 5.92 ng  
RT: 14.009 min Scan# 2027  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 183026 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.9  | 24.6  | 36.8   |
| 229       | 22.4  | 15.8  | 23.6   |

Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020

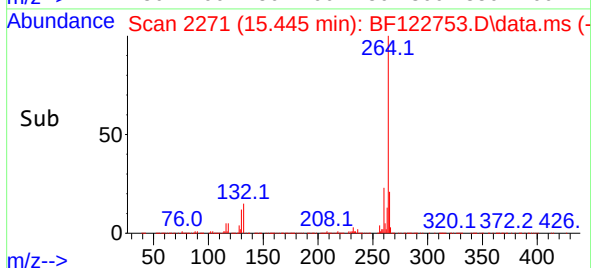
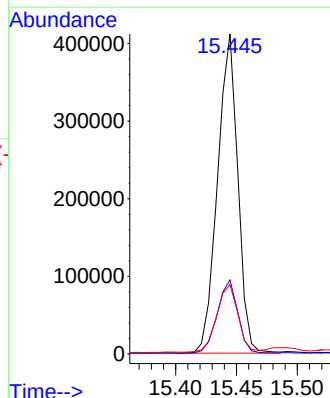
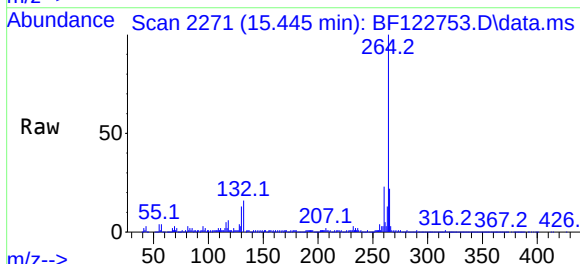
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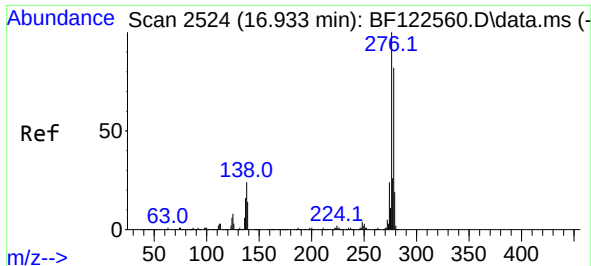
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12/17/2020 11:38:31 AM



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.445 min Scan# 2271  
Delta R.T. 0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 477423 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.2  | 18.6  | 28.0   |
| 265       | 21.7  | 17.0  | 25.6   |





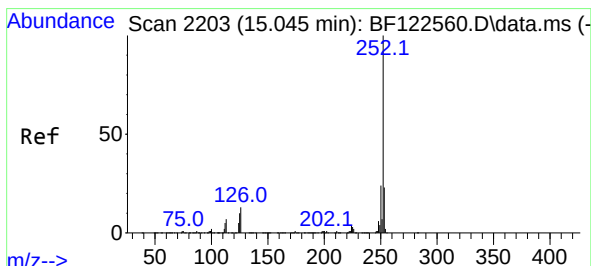
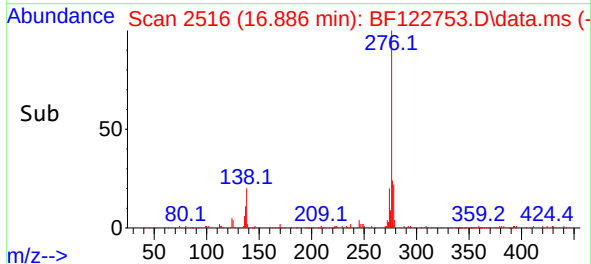
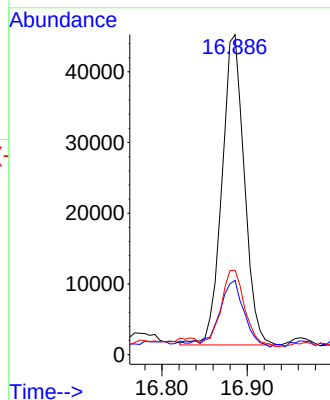
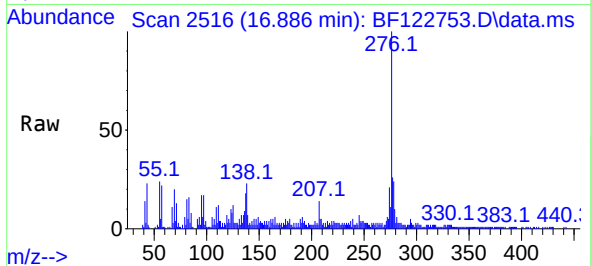
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.56 ng  
RT: 16.886 min Scan# 2516  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion: 276 Resp: 80182  
Ion Ratio Lower Upper  
276 100  
138 23.8 18.7 28.1  
277 26.1 20.2 30.4

Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020

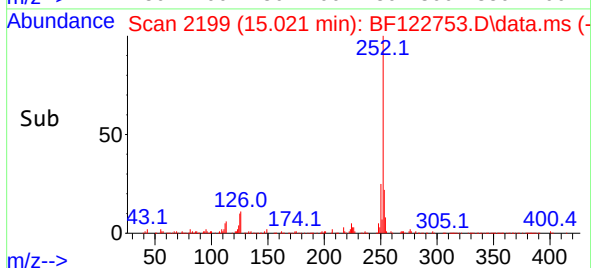
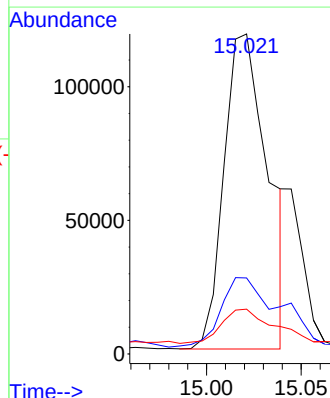
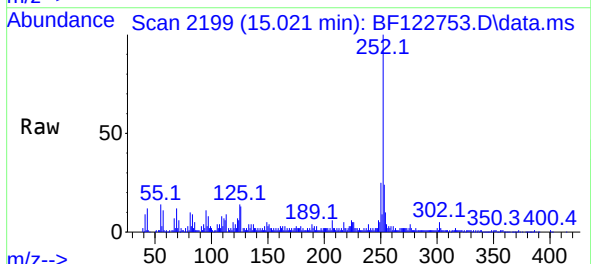
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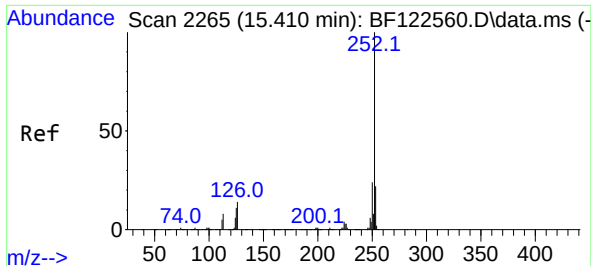
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12/17/2020 11:38:31 AM



#88  
Benzo(b)fluoranthene  
Concen: 5.67 ng m  
RT: 15.021 min Scan# 2199  
Delta R.T. -0.000 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

Tgt Ion: 252 Resp: 190044  
Ion Ratio Lower Upper  
252 100  
253 23.8 18.3 27.5  
125 14.0 8.1 12.1#





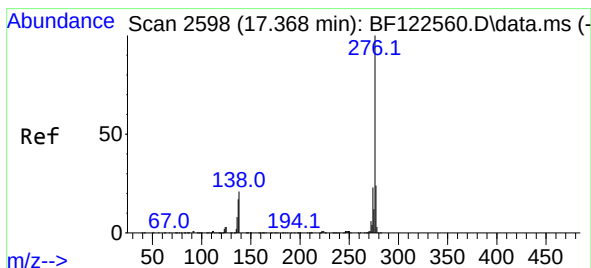
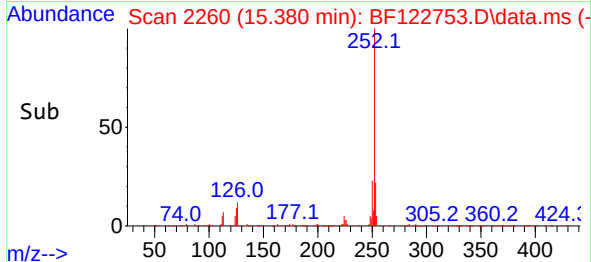
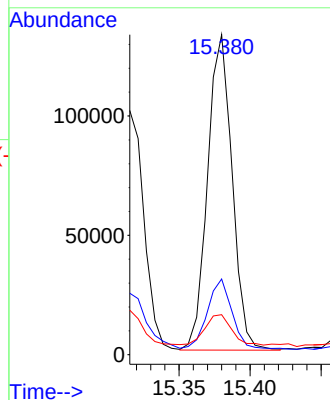
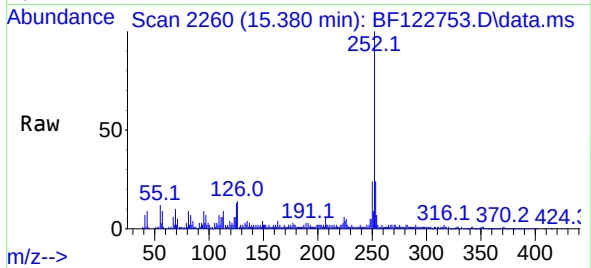
#90  
Benzo(a)pyrene  
Concen: 5.43 ng  
RT: 15.380 min Scan# 2260  
Delta R.T. -0.000 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 159234 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.6  | 17.5  | 26.3   |
| 125       | 12.5  | 8.6   | 12.8   |

Instrument :  
BNA\_F  
ClientSampleId :  
HR-02-12142020

Manual Integrations  
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12/17/2020 11:38:31 AM



#92  
Benzo(g,h,i)perylene  
Concen: 4.00 ng  
RT: 17.321 min Scan# 2590  
Delta R.T. -0.006 min  
Lab File: BF122753.D  
Acq: 16 Dec 2020 16:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 99262 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.2  | 19.3  | 28.9  |
| 138       | 23.4  | 16.6  | 24.8  |

