

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
 Data File : BF122891.D  
 Acq On : 30 Dec 2020 21:40  
 Operator : JU/CG  
 Sample : L5242-09DL 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-5(454+26)DL

Manual Integrations  
 APPROVED

mohammad  
 12/31/2020 10:46:14 AM

Quant Time: Dec 31 00:59:24 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   | 6.822  | 152  | 109474   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.104  | 136  | 392635   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.863  | 164  | 188990   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.351 | 188  | 336007   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.998 | 240  | 353727   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12            | 15.462 | 264  | 377599   | 20.00 | ng    | 0.02     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.440  | 112  | 103791   | 15.01 | ng    | 0.00     |
| 7) Phenol-d6                | 6.457  | 99   | 112748   | 12.29 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.381  | 82   | 64330    | 8.21  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.651 | 330  | 33520    | 13.55 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.181  | 172  | 141142   | 10.10 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.933 | 244  | 170727   | 8.45  | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 49) Acenaphthylene          | 9.722  | 152  | 42015    | 2.19  | ng    | 99       |
| 71) Phenanthrene            | 11.375 | 178  | 192553   | 9.64  | ng    | 98       |
| 72) Anthracene              | 11.422 | 178  | 85885    | 4.34  | ng    | 97       |
| 73) Carbazole               | 11.580 | 167  | 78353    | 4.36  | ng    | 96       |
| 75) Fluoranthene            | 12.569 | 202  | 793124   | 37.88 | ng    | 98       |
| 78) Pyrene                  | 12.798 | 202  | 664128   | 24.28 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.986 | 228  | 216947   | 9.18  | ng    | 95       |
| 83) Chrysene                | 14.021 | 228  | 472398   | 20.08 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.921 | 276  | 103254   | 4.17  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.039 | 252  | 562413m  | 21.23 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.063 | 252  | 134955m  | 5.57  | ng    |          |
| 90) Benzo(a)pyrene          | 15.398 | 252  | 138953   | 6.00  | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 17.362 | 276  | 86104    | 4.39  | ng    | 99       |
| -----                       |        |      |          |       |       |          |

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

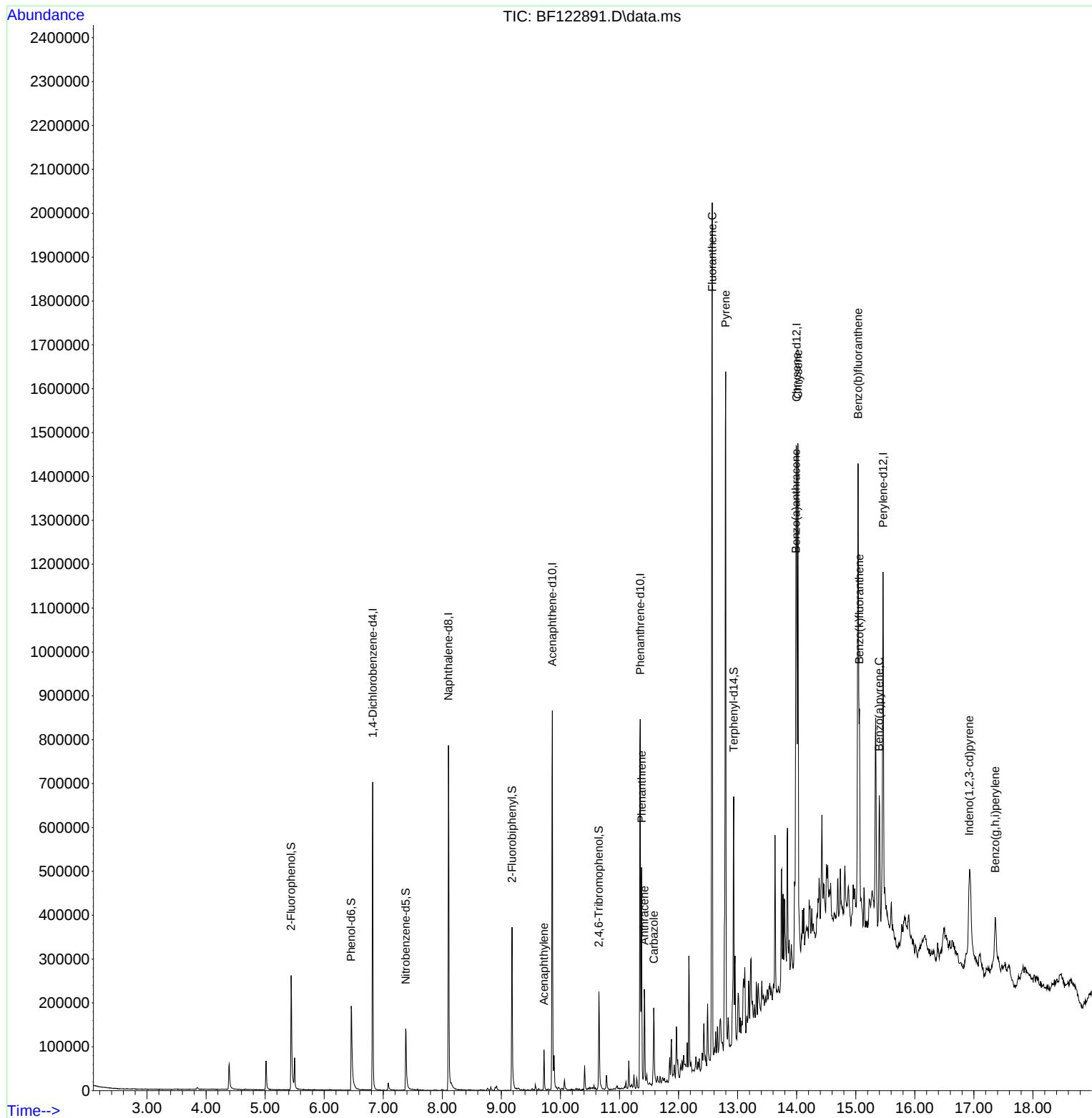
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
Data File : BF122891.D  
Acq On : 30 Dec 2020 21:40  
Operator : JU/CG  
Sample : L5242-09DL 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL

Manual Integrations  
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Quant Time: Dec 31 00:59:24 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





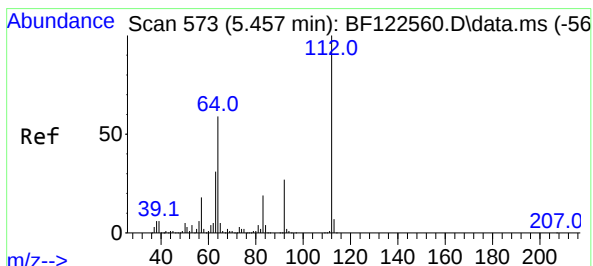
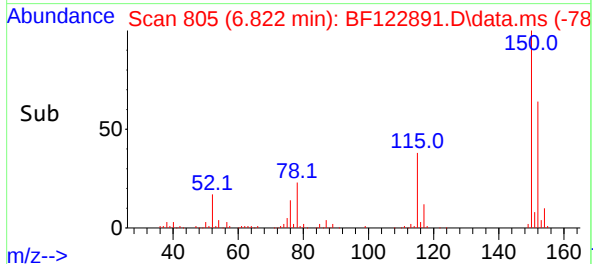
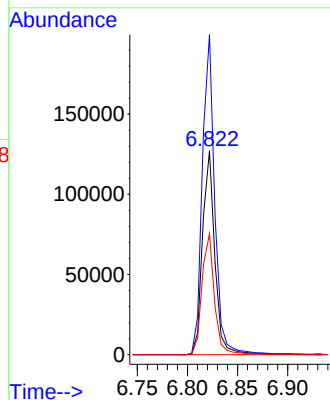
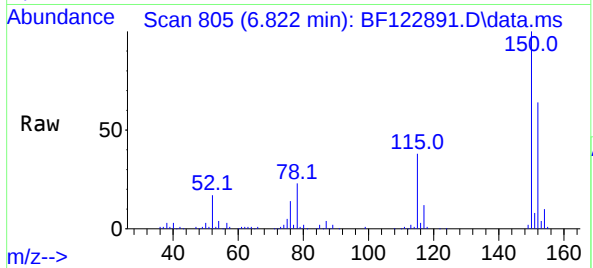
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.822 min Scan# 805  
Delta R.T. -0.000 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion:152 Resp: 109474  
Ion Ratio Lower Upper  
152 100  
150 156.9 125.8 188.6  
115 59.2 49.3 73.9

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL

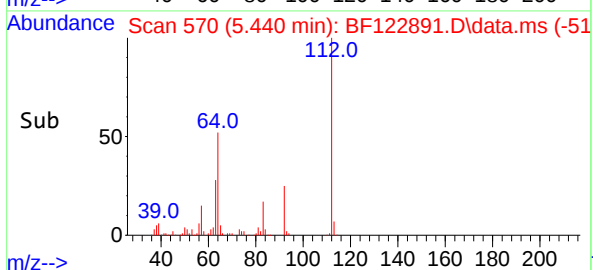
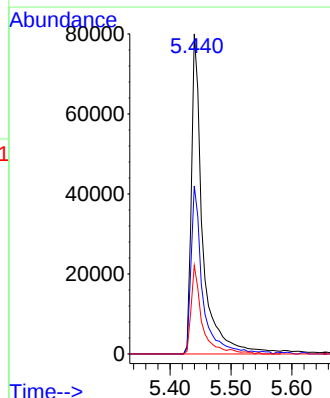
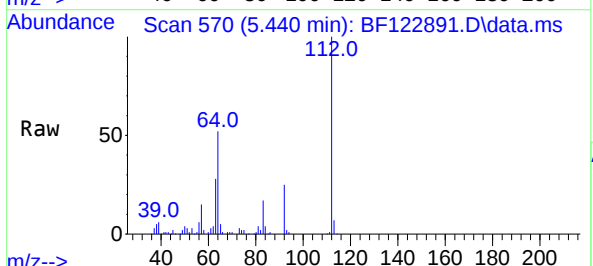
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#5  
2-Fluorophenol  
Concen: 15.01 ng  
RT: 5.440 min Scan# 570  
Delta R.T. 0.006 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion:112 Resp: 103791  
Ion Ratio Lower Upper  
112 100  
64 52.5 46.9 70.3  
63 27.7 24.5 36.7





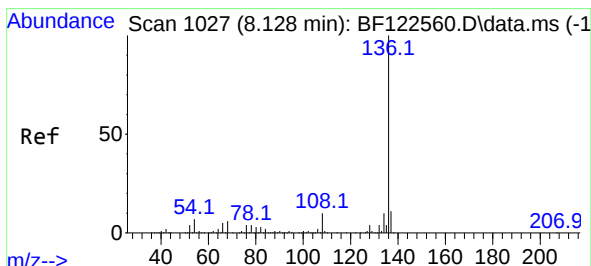
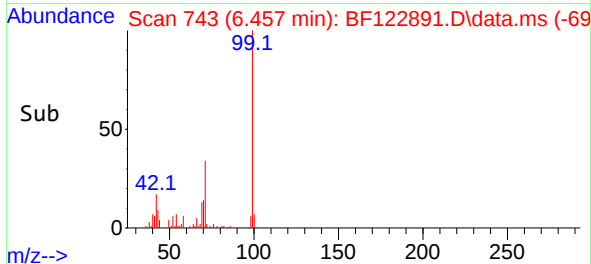
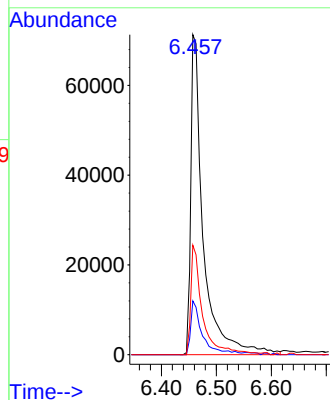
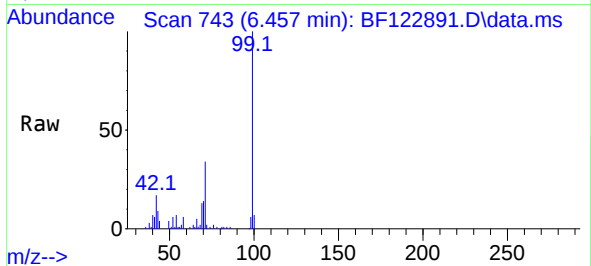
#7  
Phenol-d6  
Concen: 12.29 ng  
RT: 6.457 min Scan# 743  
Delta R.T. -0.000 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 112748 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 16.8  | 13.8  | 20.6   |
| 71       | 34.2  | 26.9  | 40.3   |

Instrument :  
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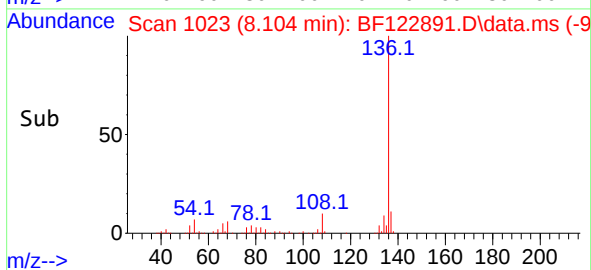
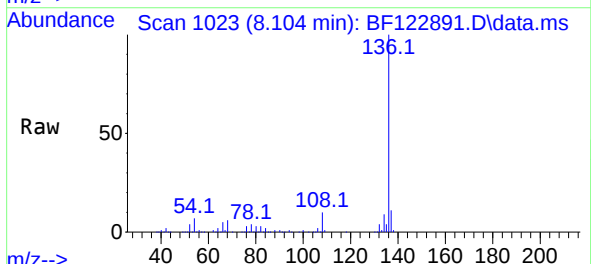
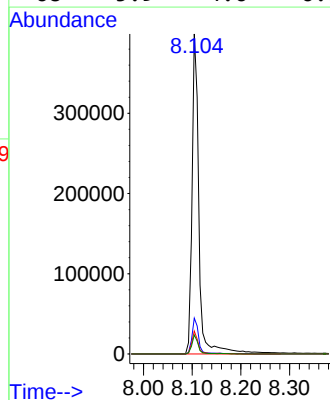
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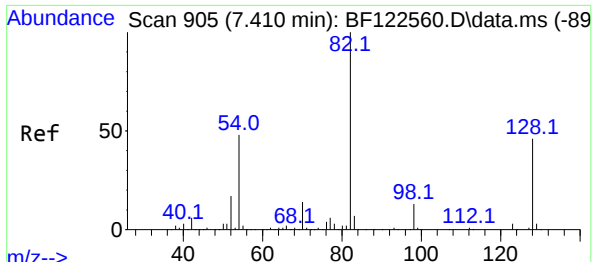
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#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 392635 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.8   | 13.2   |
| 54       | 7.2   | 5.5   | 8.3    |
| 68       | 5.9   | 4.6   | 6.8    |





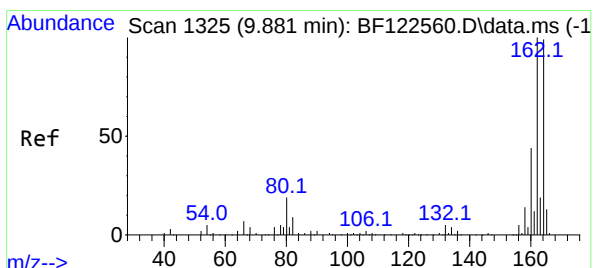
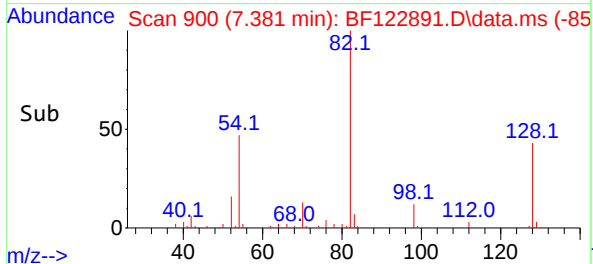
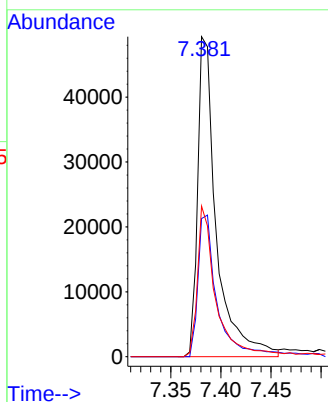
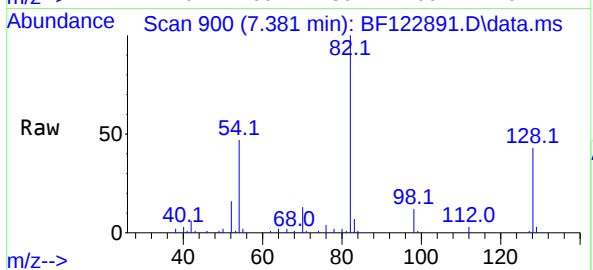
#23  
Nitrobenzene-d5  
Concen: 8.21 ng  
RT: 7.381 min Scan# 900  
Delta R.T. -0.012 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion: 82 Resp: 64330  
Ion Ratio Lower Upper  
82 100  
128 43.1 37.0 55.4  
54 47.0 38.4 57.6

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL

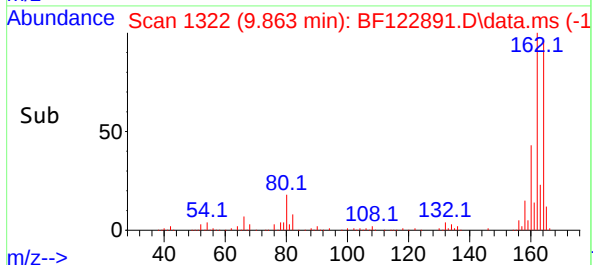
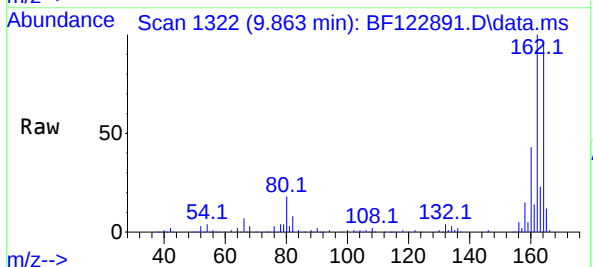
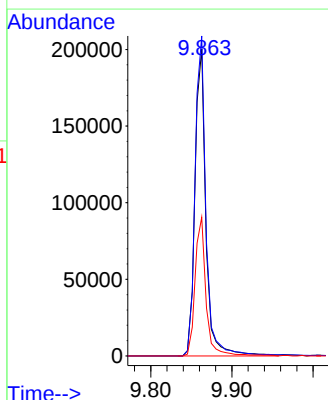
Manual Integrations  
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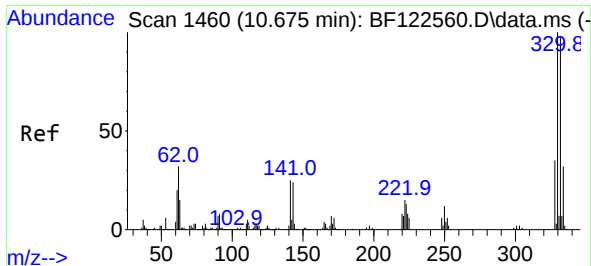
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#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.863 min Scan# 1322  
Delta R.T. -0.000 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

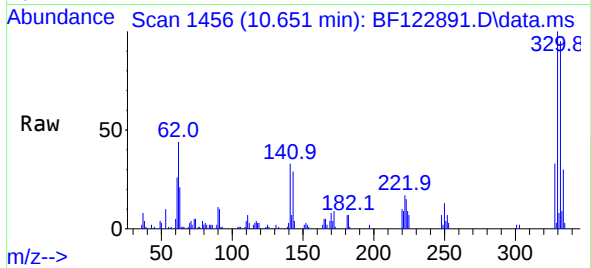
Tgt Ion:164 Resp: 188990  
Ion Ratio Lower Upper  
164 100  
162 104.2 80.8 121.2  
160 45.2 35.4 53.0





#42  
2,4,6-Tribromophenol  
Concen: 13.55 ng  
RT: 10.651 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

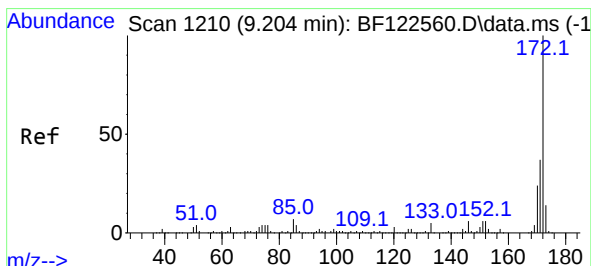
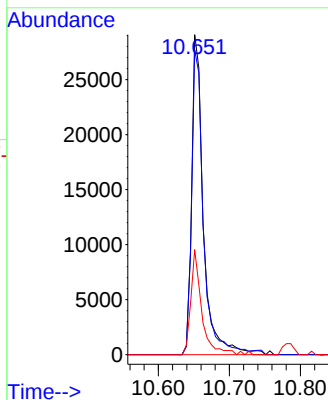
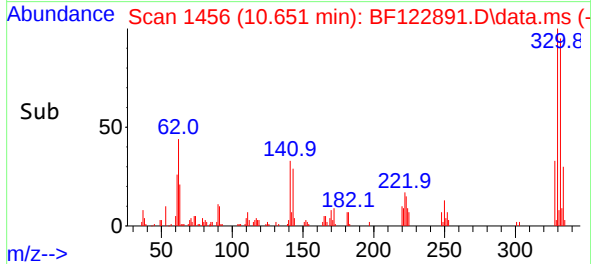
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL



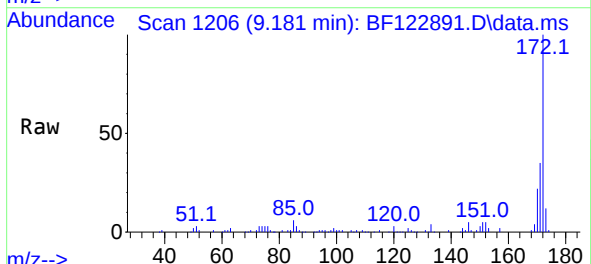
Tgt Ion: 330 Resp: 33520  
Ion Ratio Lower Upper  
330 100  
332 96.9 77.5 116.3  
141 30.4 23.8 35.8

Manual Integrations  
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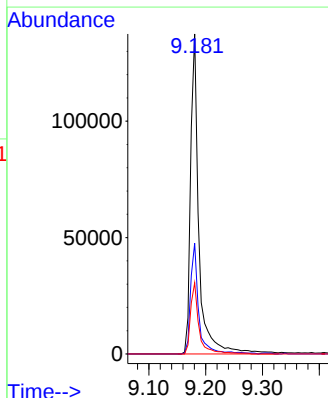
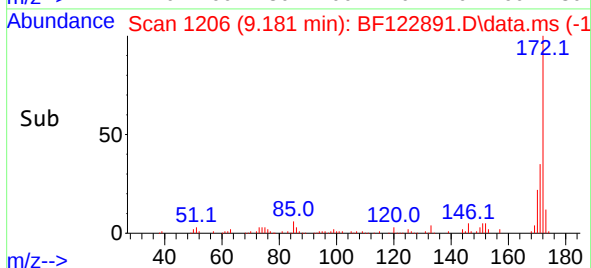
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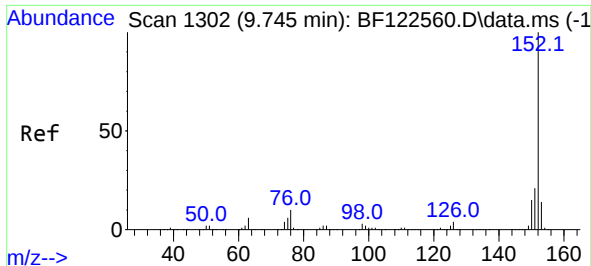


#45  
2-Fluorobiphenyl  
Concen: 10.10 ng  
RT: 9.181 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40



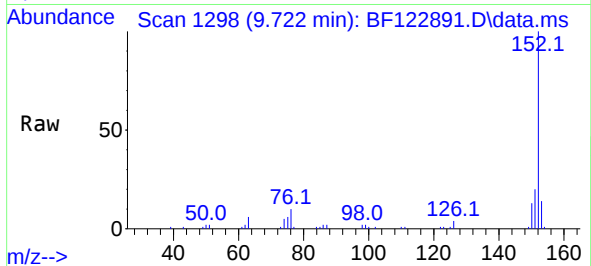
Tgt Ion: 172 Resp: 141142  
Ion Ratio Lower Upper  
172 100  
171 34.6 29.6 44.4  
170 22.3 19.5 29.3





#49  
Acenaphthylene  
Concen: 2.19 ng  
RT: 9.722 min Scan# 1298  
Delta R.T. -0.000 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

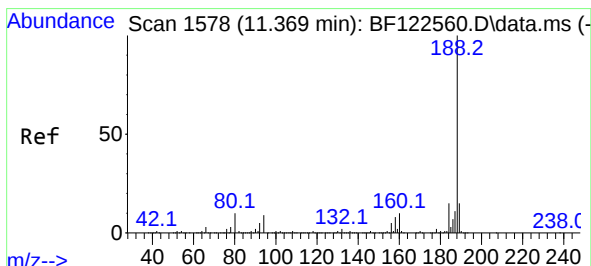
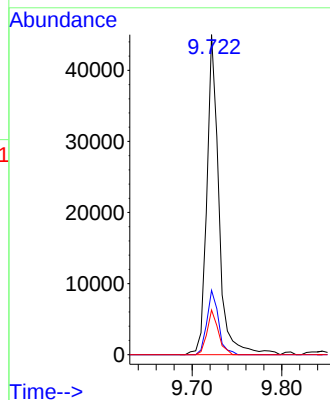
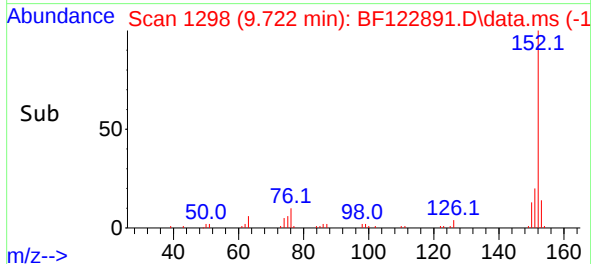
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL



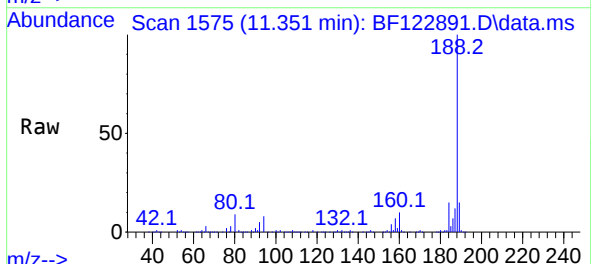
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Ion Ratio Lower Upper  
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153 14.0 10.9 16.3

Manual Integrations  
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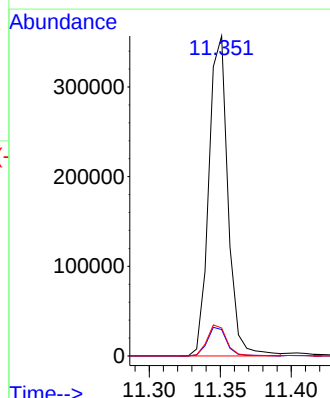
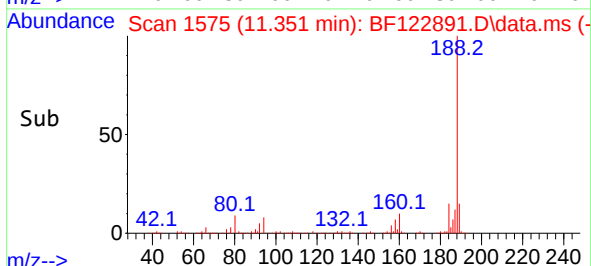
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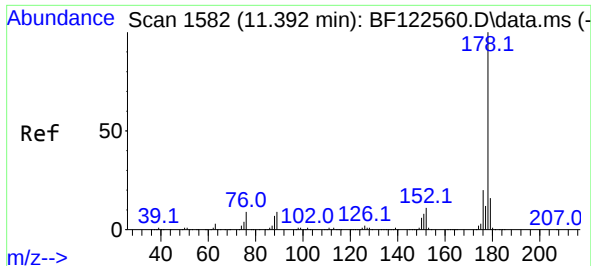


#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.351 min Scan# 1575  
Delta R.T. 0.006 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40



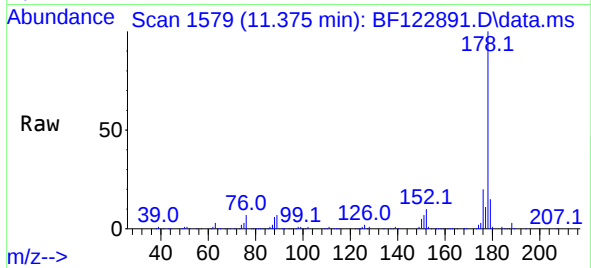
Tgt Ion:188 Resp: 336007  
Ion Ratio Lower Upper  
188 100  
94 8.3 7.4 11.2  
80 8.7 8.2 12.4





#71  
Phenanthrene  
Concen: 9.64 ng  
RT: 11.375 min Scan# 1579  
Delta R.T. 0.006 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

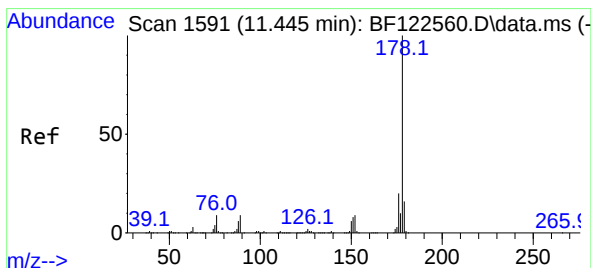
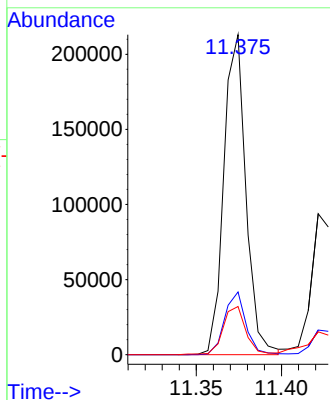
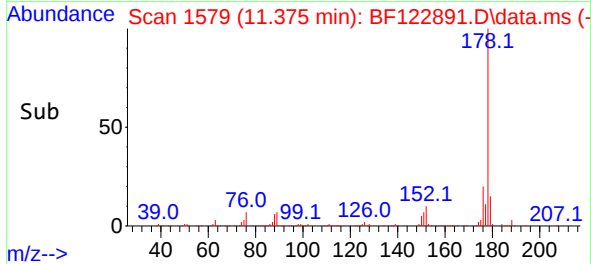
Instrument :  
BNA\_F  
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SAMPLE-5(454+26)DL



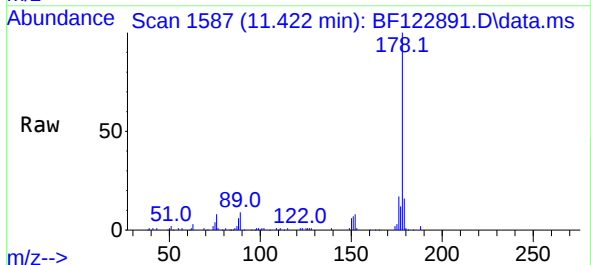
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Ion Ratio Lower Upper  
178 100  
176 19.6 16.2 24.2  
179 15.0 12.7 19.1

Manual Integrations  
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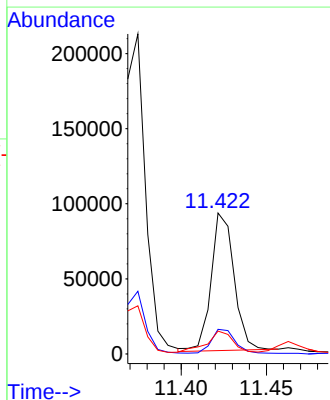
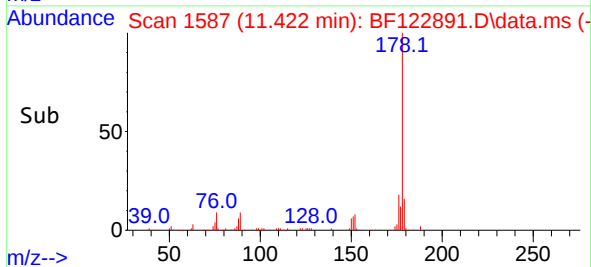
mohammad  
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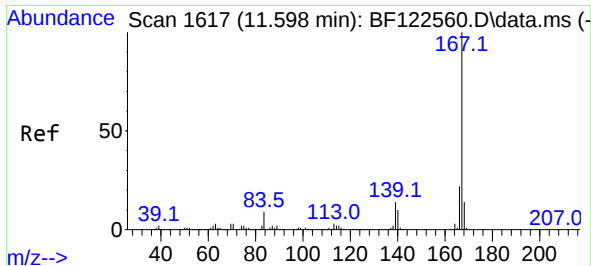


#72  
Anthracene  
Concen: 4.34 ng  
RT: 11.422 min Scan# 1587  
Delta R.T. -0.000 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40



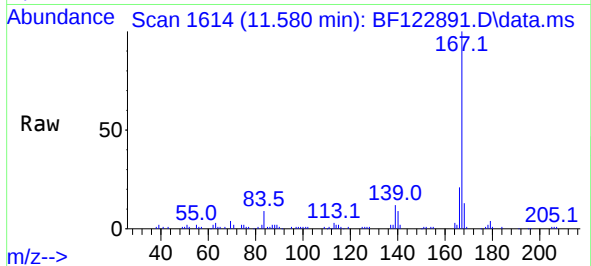
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Ion Ratio Lower Upper  
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176 17.5 15.6 23.4  
179 16.2 12.8 19.2





#73  
 Carbazole  
 Concen: 4.36 ng  
 RT: 11.580 min Scan# 1614  
 Delta R.T. 0.006 min  
 Lab File: BF122891.D  
 Acq: 30 Dec 2020 21:40

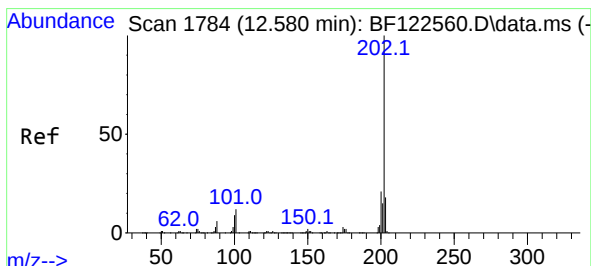
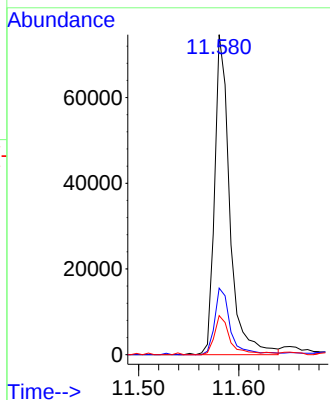
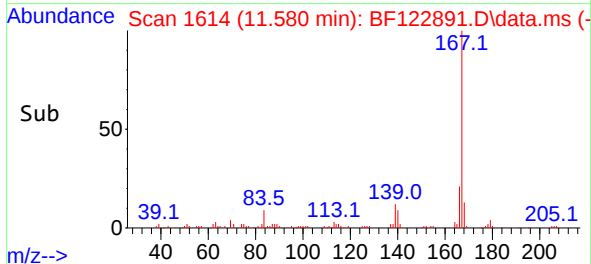
Instrument :  
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 ClientSampleId :  
 SAMPLE-5(454+26)DL



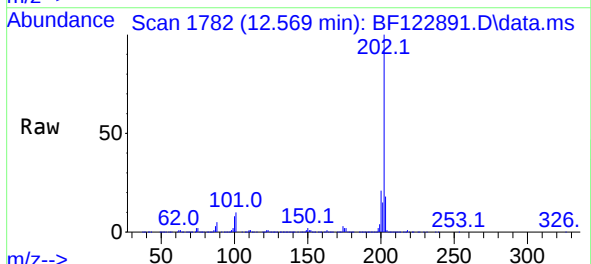
Tgt Ion:167 Resp: 78353  
 Ion Ratio Lower Upper  
 167 100  
 166 20.8 18.0 27.0  
 139 12.2 10.9 16.3

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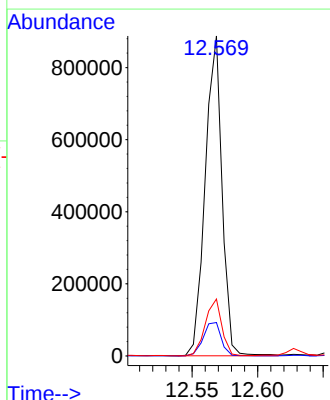
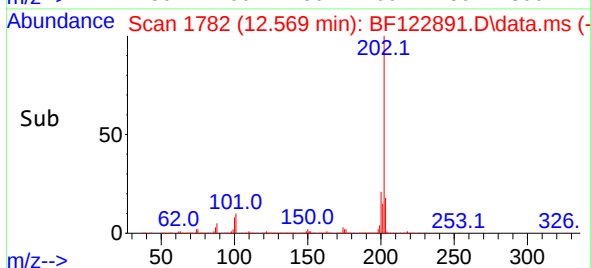
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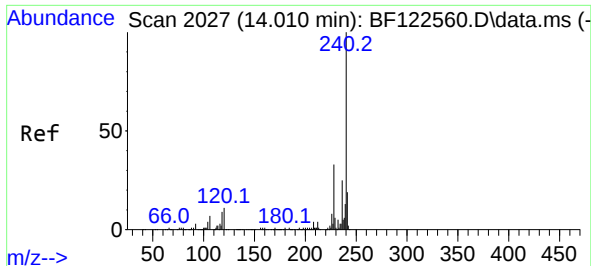


#75  
 Fluoranthene  
 Concen: 37.88 ng  
 RT: 12.569 min Scan# 1782  
 Delta R.T. 0.012 min  
 Lab File: BF122891.D  
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Tgt Ion:202 Resp: 793124  
 Ion Ratio Lower Upper  
 202 100  
 101 10.5 0.0 32.2  
 203 17.8 0.0 38.1





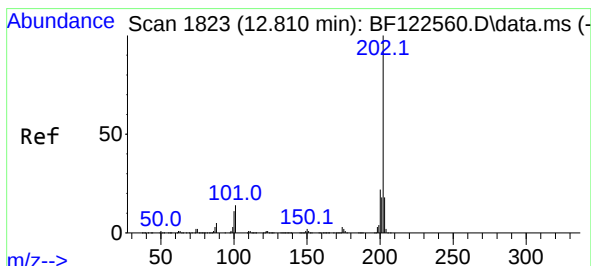
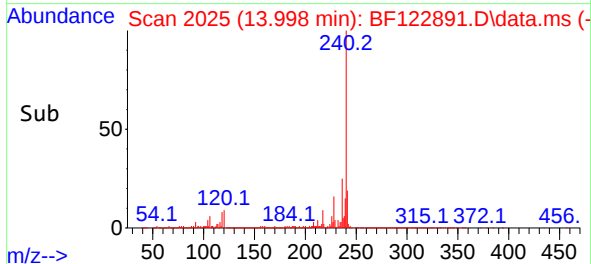
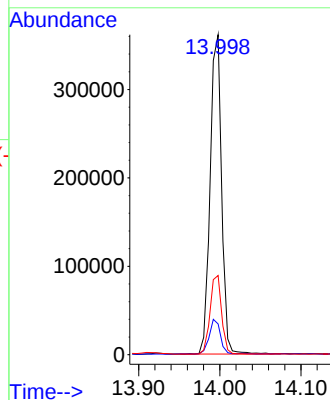
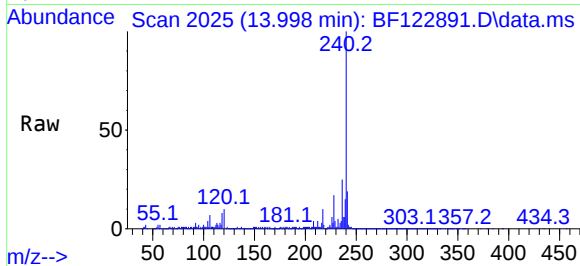
#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. 0.012 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion:240 Resp: 353727  
Ion Ratio Lower Upper  
240 100  
120 9.6 8.6 12.8  
236 24.7 20.3 30.5

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL

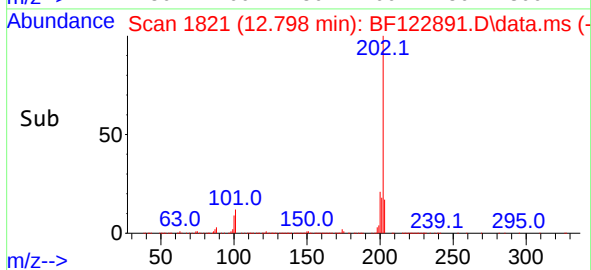
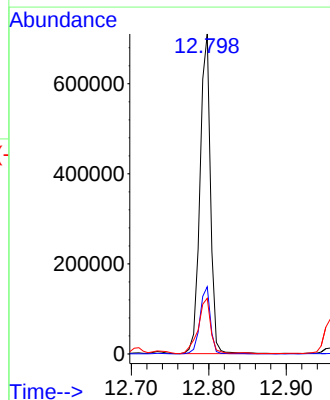
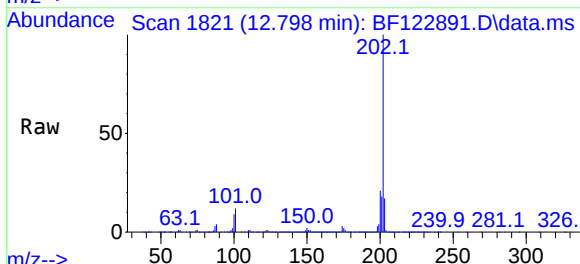
Manual Integrations  
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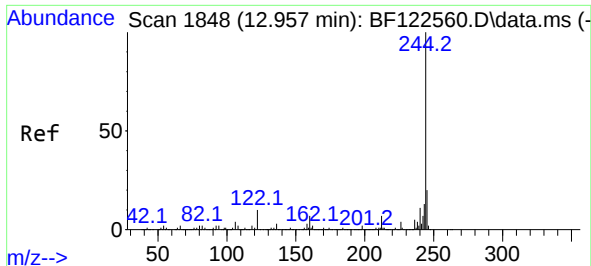
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#78  
Pyrene  
Concen: 24.28 ng  
RT: 12.798 min Scan# 1821  
Delta R.T. 0.012 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion:202 Resp: 664128  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.6 26.4  
203 17.4 14.6 21.8





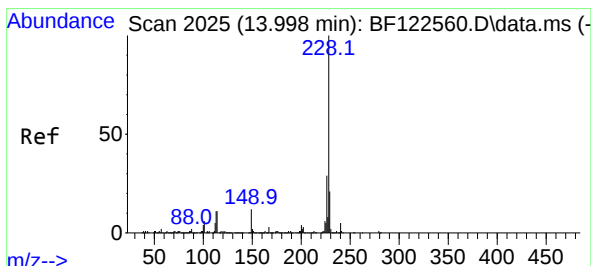
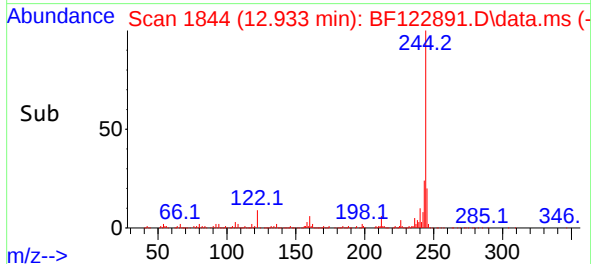
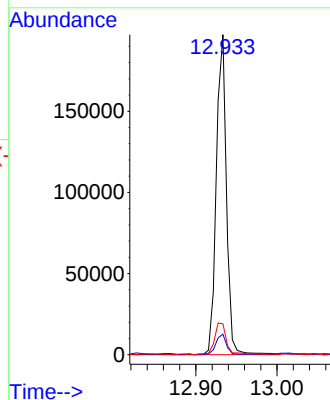
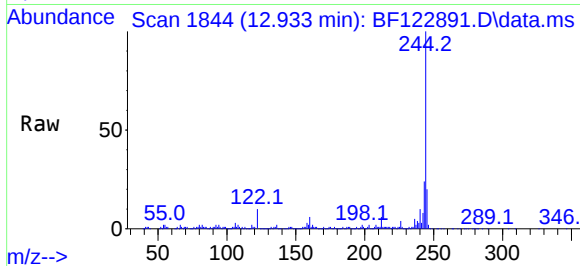
#79  
Terphenyl-d14  
Concen: 8.45 ng  
RT: 12.933 min Scan# 1844  
Delta R.T. -0.000 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL

Tgt Ion:244 Resp: 170727  
Ion Ratio Lower Upper  
244 100  
212 6.4 5.7 8.5  
122 9.6 8.3 12.5

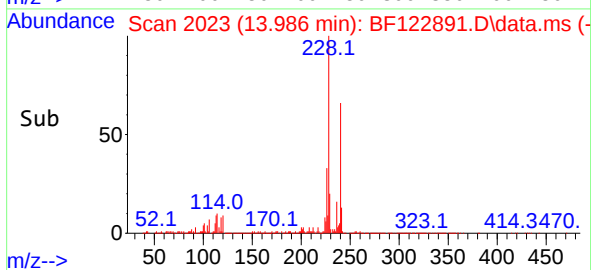
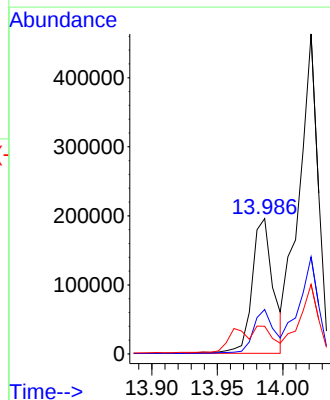
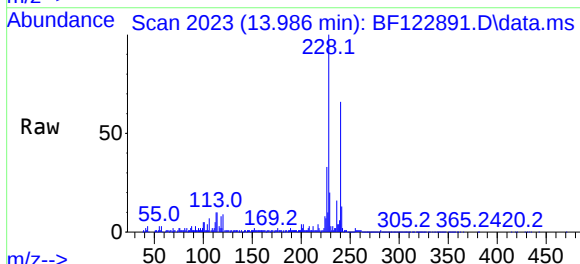
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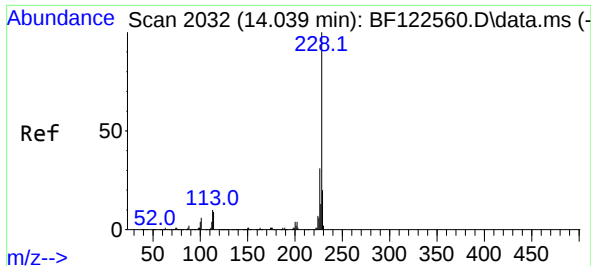
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#81  
Benzo(a)anthracene  
Concen: 9.18 ng  
RT: 13.986 min Scan# 2023  
Delta R.T. 0.012 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion:228 Resp: 216947  
Ion Ratio Lower Upper  
228 100  
226 32.9 23.0 34.4  
229 20.5 16.6 24.8





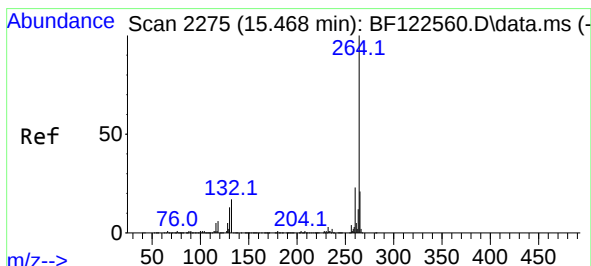
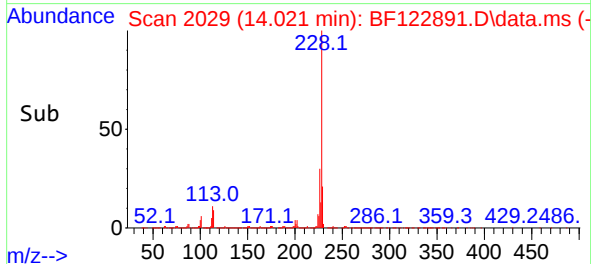
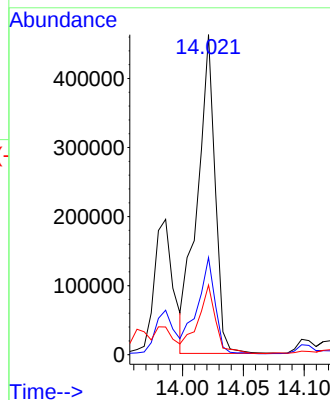
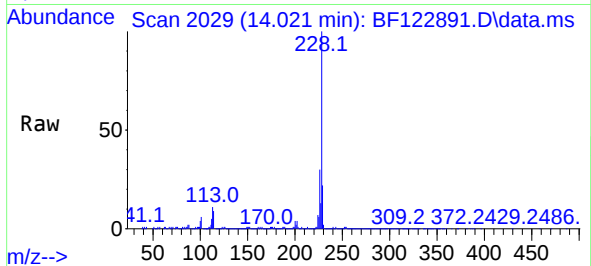
#83  
Chrysene  
Concen: 20.08 ng  
RT: 14.021 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion:228 Resp: 472398  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.6 36.8  
229 21.7 15.8 23.6

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL

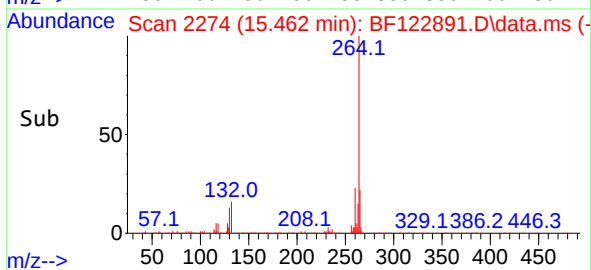
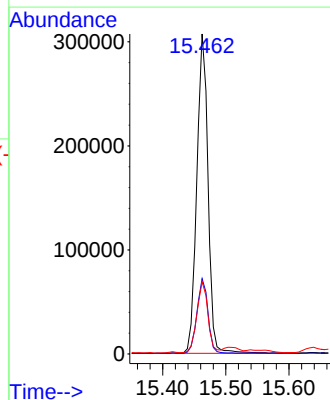
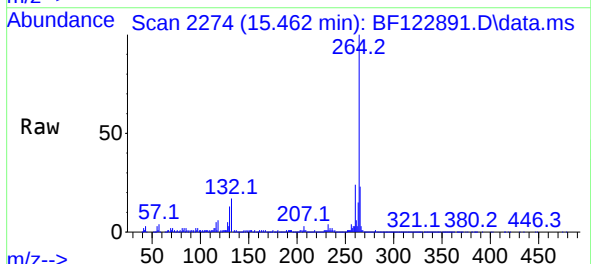
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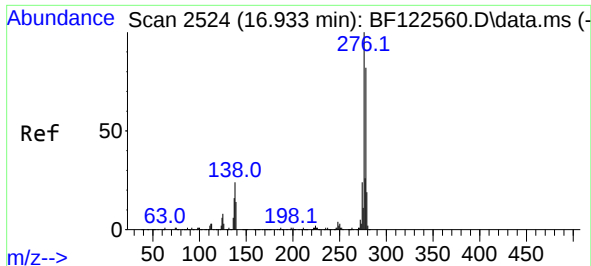
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.462 min Scan# 2274  
Delta R.T. 0.023 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

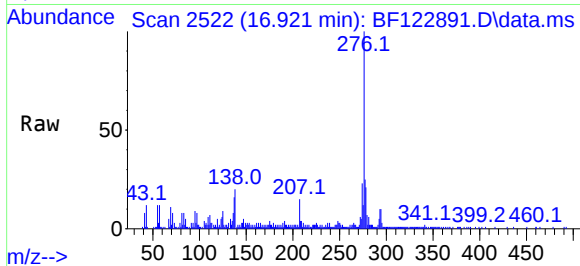
Tgt Ion:264 Resp: 377599  
Ion Ratio Lower Upper  
264 100  
260 23.5 18.6 28.0  
265 22.6 17.0 25.6





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.17 ng  
RT: 16.921 min Scan# 2522  
Delta R.T. 0.029 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

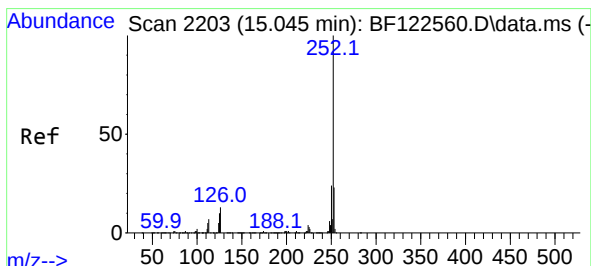
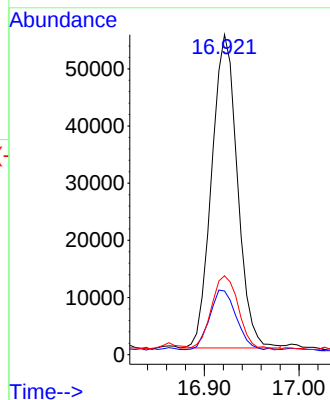
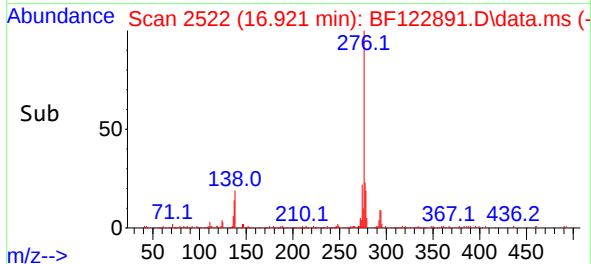
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL



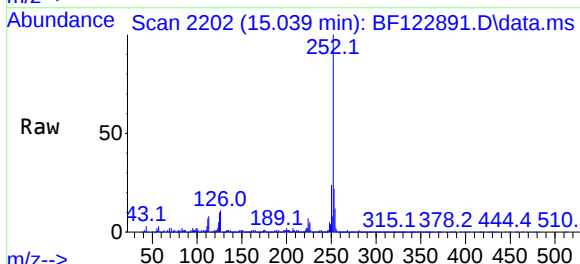
Tgt Ion:276 Resp: 103254  
Ion Ratio Lower Upper  
276 100  
138 20.4 18.7 28.1  
277 25.5 20.2 30.4

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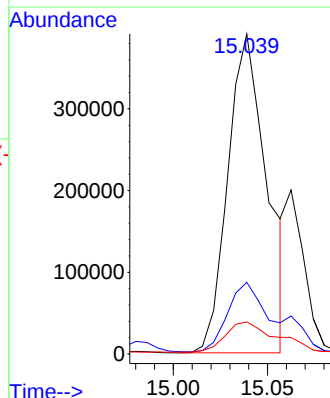
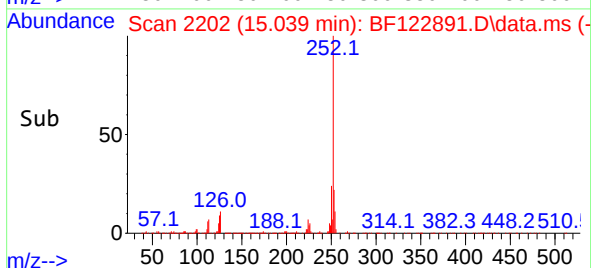
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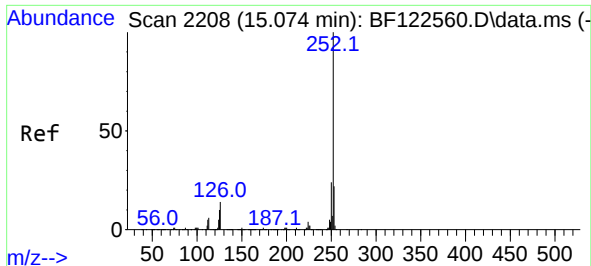


#88  
Benzo(b)fluoranthene  
Concen: 21.23 ng m  
RT: 15.039 min Scan# 2202  
Delta R.T. 0.018 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40



Tgt Ion:252 Resp: 562413  
Ion Ratio Lower Upper  
252 100  
253 22.4 18.3 27.5  
125 10.0 8.1 12.1





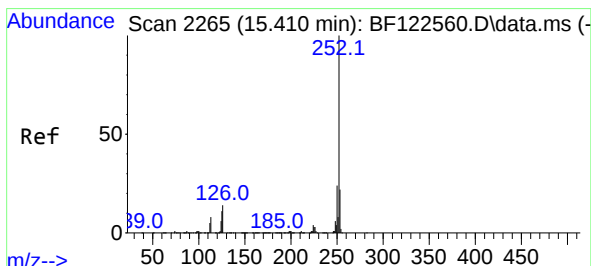
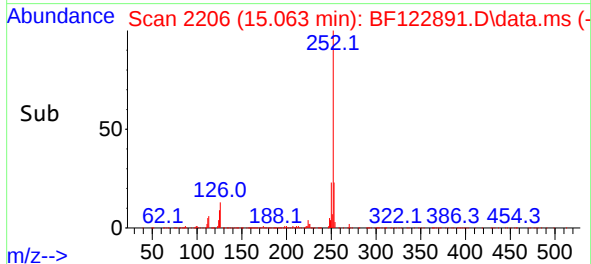
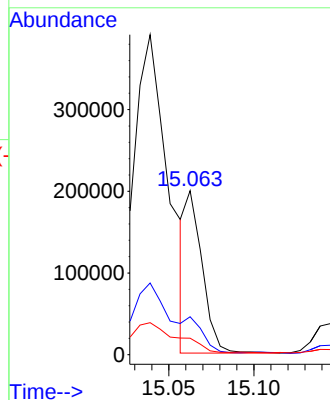
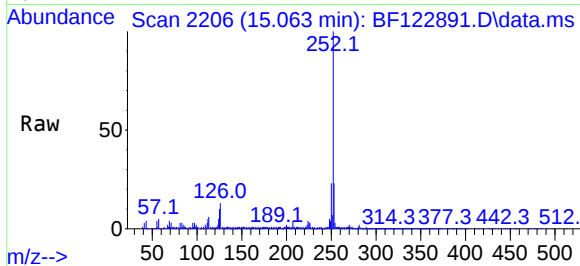
#89  
Benzo(k)fluoranthene  
Concen: 5.57 ng m  
RT: 15.063 min Scan# 2206  
Delta R.T. 0.012 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Tgt Ion:252 Resp: 134955  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.8 26.8  
125 10.0 8.4 12.6

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL

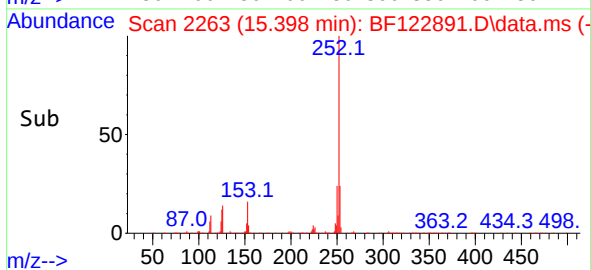
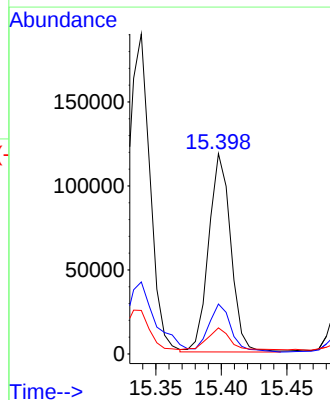
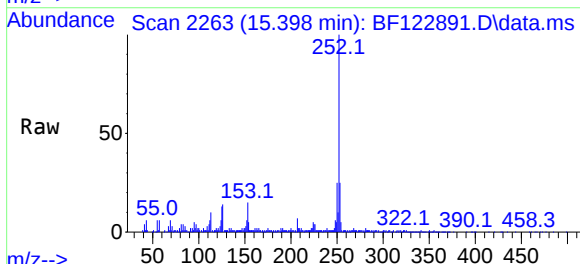
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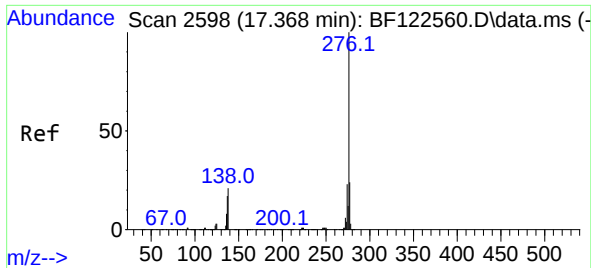
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#90  
Benzo(a)pyrene  
Concen: 6.00 ng  
RT: 15.398 min Scan# 2263  
Delta R.T. 0.018 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

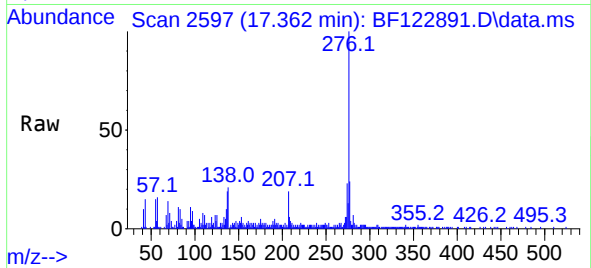
Tgt Ion:252 Resp: 138953  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.5 26.3  
125 13.0 8.6 12.8#





#92  
Benzo(g,h,i)perylene  
Concen: 4.39 ng  
RT: 17.362 min Scan# 2597  
Delta R.T. 0.035 min  
Lab File: BF122891.D  
Acq: 30 Dec 2020 21:40

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 86104 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.3  | 19.3  | 28.9  |
| 138      | 21.3  | 16.6  | 24.8  |

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