

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101420\  
 Data File : BF121981.D  
 Acq On : 15 Oct 2020 5:59  
 Operator : JU/CG  
 Sample : L4390-03  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BG-3

Manual Integrations  
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 10/15/2020 10:47:46 AM

Quant Time: Oct 15 06:37:02 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF101220.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 12 16:22:33 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.739  | 152  | 106028   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.028  | 136  | 399305   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.775  | 164  | 186111   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.263 | 188  | 292776   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12            | 13.910 | 240  | 225284   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.345 | 264  | 210127   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.363  | 112  | 552128   | 76.86 | ng    | 0.00     |
| 7) Phenol-d6                | 6.387  | 99   | 710963   | 76.88 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.310  | 82   | 489922   | 62.92 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.569 | 330  | 148326   | 64.43 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.098  | 172  | 797416   | 63.04 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.845 | 244  | 549621   | 46.49 | ng    | -0.02    |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 50) Dimethylphthalate       | 9.498  | 163  | 103807   | 7.63  | ng    | 99       |
| 52) Acenaphthene            | 9.810  | 154  | 58254    | 5.42  | ng    | 99       |
| 55) Dibenzofuran            | 9.986  | 168  | 36601    | 2.33  | ng    | 95       |
| 58) Fluorene                | 10.322 | 166  | 61889    | 4.89  | ng    | 97       |
| 71) Phenanthrene            | 11.286 | 178  | 846565   | 52.74 | ng    | 99       |
| 72) Anthracene              | 11.339 | 178  | 120720   | 7.25  | ng    | 98       |
| 73) Carbazole               | 11.498 | 167  | 110491   | 7.46  | ng    | 96       |
| 75) Fluoranthene            | 12.480 | 202  | 1491580  | 86.66 | ng    | 99       |
| 78) Pyrene                  | 12.710 | 202  | 1241882  | 72.34 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.898 | 228  | 600009   | 40.64 | ng    | 97       |
| 83) Chrysene                | 13.933 | 228  | 710812   | 49.05 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.756 | 276  | 341560   | 25.04 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 14.933 | 252  | 886669m  | 62.43 | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.957 | 252  | 257292m  | 19.07 | ng    |          |
| 90) Benzo(a)pyrene          | 15.286 | 252  | 529502   | 43.16 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 16.762 | 278  | 80020m   | 7.12  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.186 | 276  | 332146   | 29.54 | ng    | 99       |
| -----                       |        |      |          |       |       |          |

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

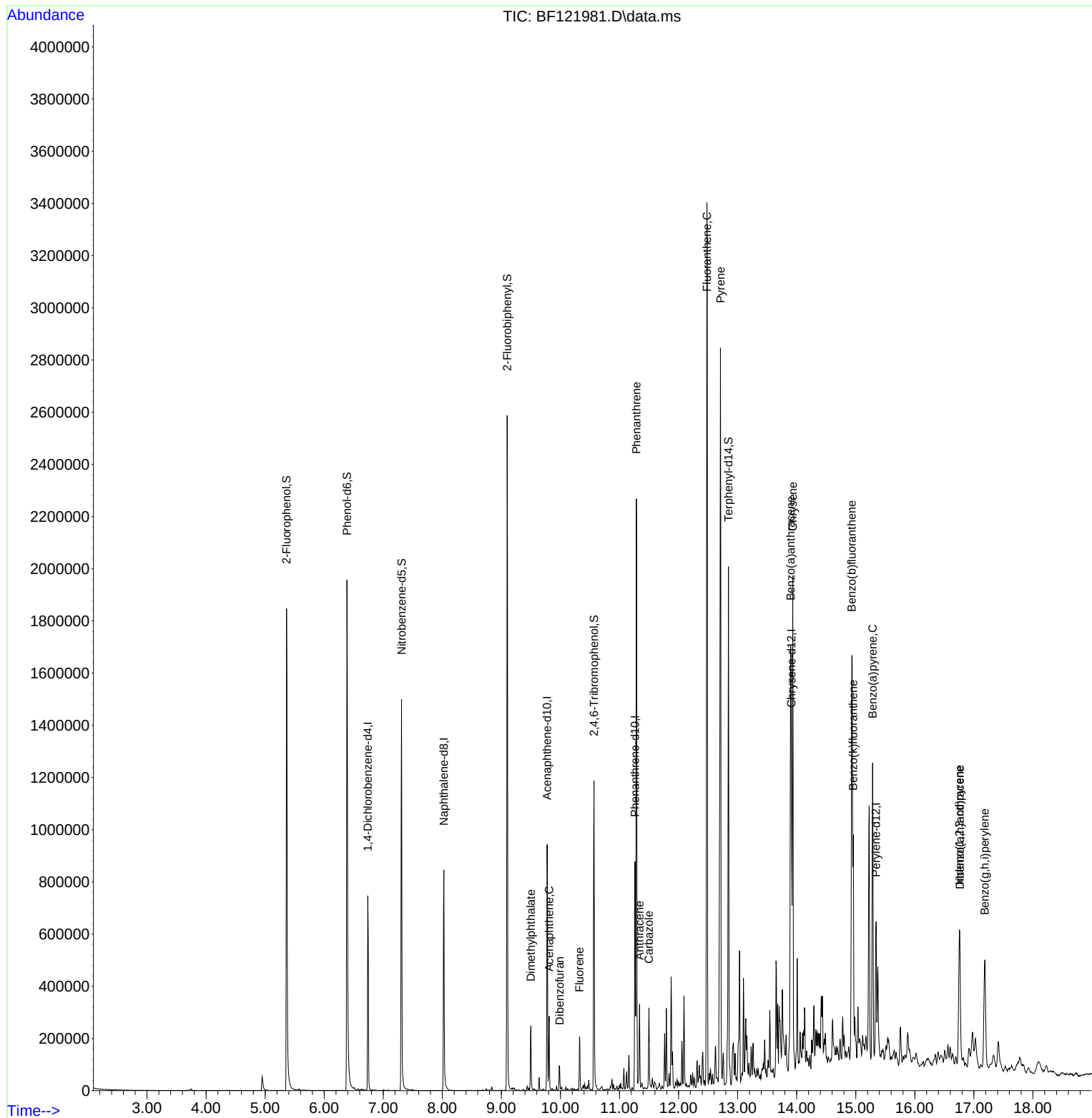
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101420\  
Data File : BF121981.D  
Acq On : 15 Oct 2020 5:59  
Operator : JU/CG  
Sample : L4390-03  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

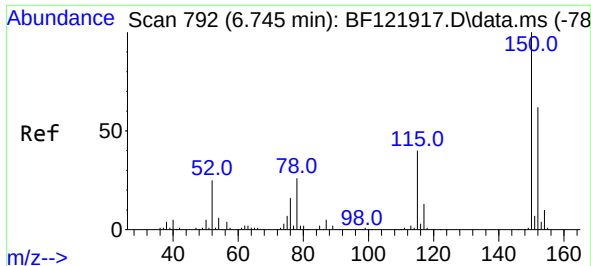
Instrument :  
BNA\_F  
ClientSampleId :  
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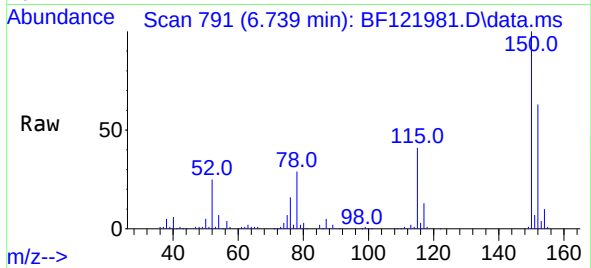
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Quant Time: Oct 15 06:37:02 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF101220.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 12 16:22:33 2020  
Response via : Initial Calibration

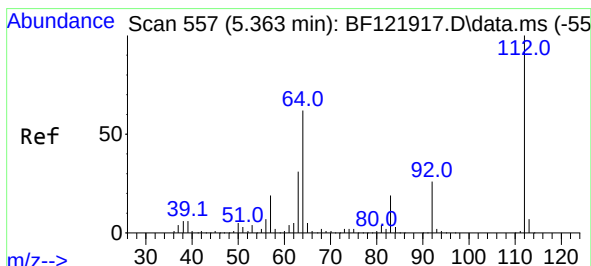
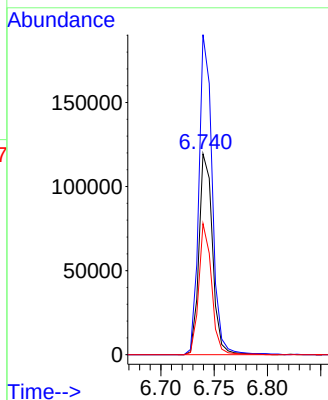
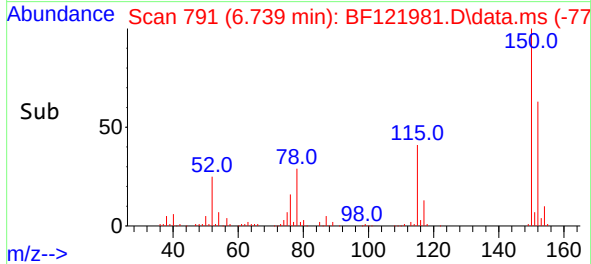




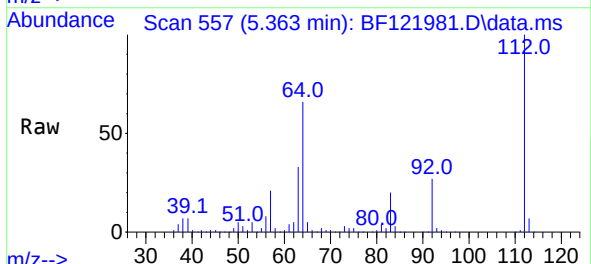
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.739 min Scan# 791  
Delta R.T. -0.006 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



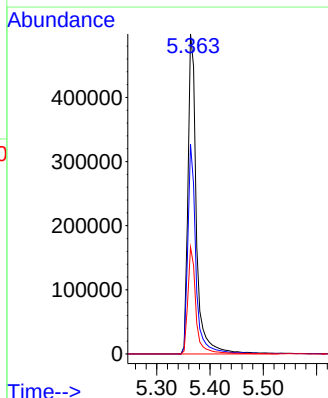
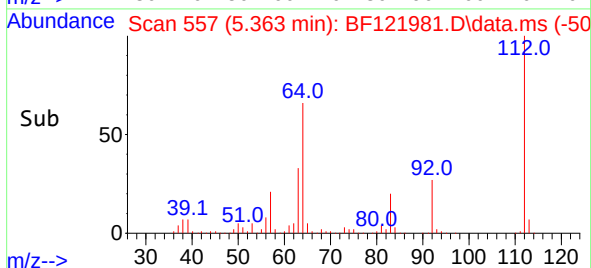
Tgt Ion:152 Resp: 106028  
Ion Ratio Lower Upper  
152 100  
150 159.3 125.3 187.9  
115 65.3 51.9 77.9



#5  
2-Fluorophenol  
Concen: 76.86 ng  
RT: 5.363 min Scan# 557  
Delta R.T. 0.000 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



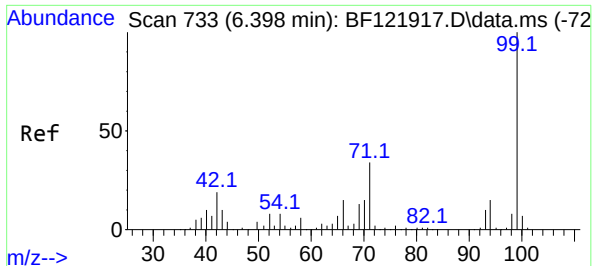
Tgt Ion:112 Resp: 552128  
Ion Ratio Lower Upper  
112 100  
64 65.5 50.4 75.6  
63 33.4 25.8 38.6



Instrument :  
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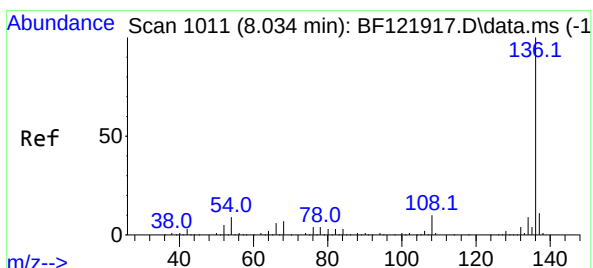
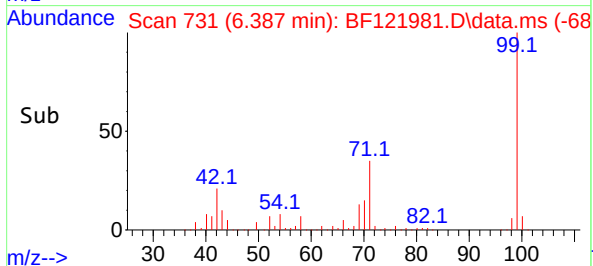
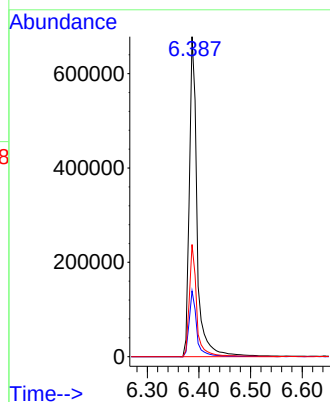
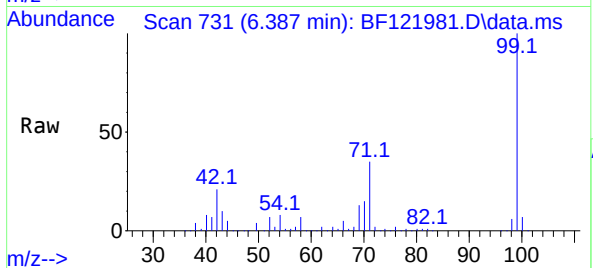
#7  
Phenol-d6  
Concen: 76.88 ng  
RT: 6.387 min Scan# 731  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion: 99 Resp: 710963  
Ion Ratio Lower Upper  
99 100  
42 20.5 15.9 23.9  
71 35.0 27.1 40.7

Instrument :  
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ClientSampled :  
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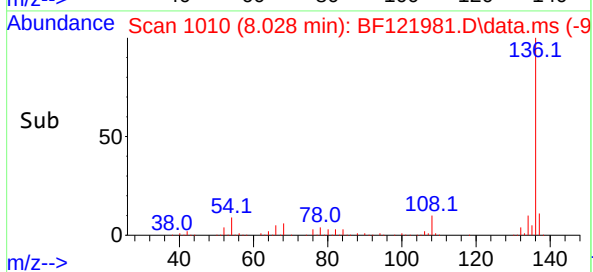
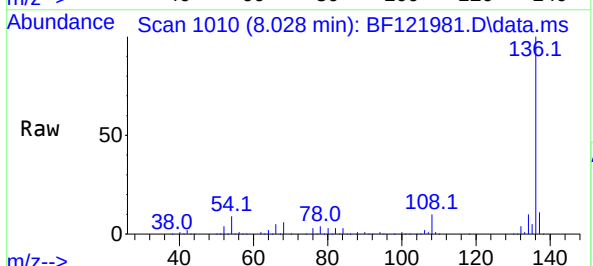
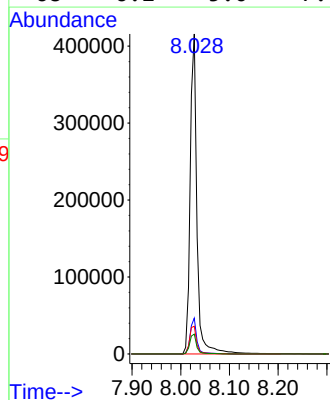
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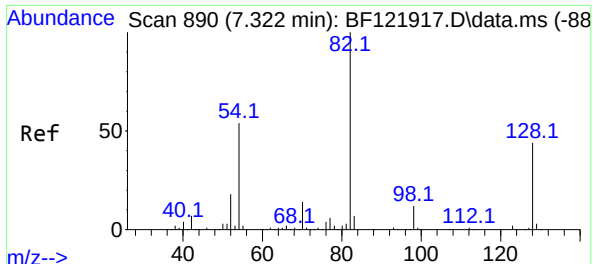
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#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.028 min Scan# 1010  
Delta R.T. -0.006 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion: 136 Resp: 399305  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.6 13.0  
54 8.7 7.1 10.7  
68 6.2 5.0 7.4





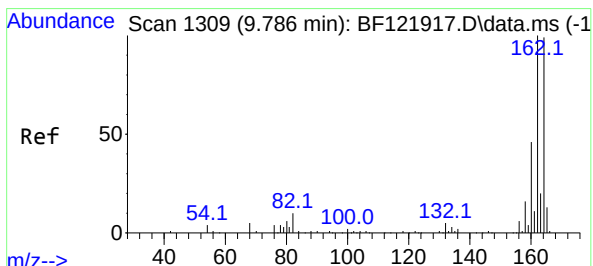
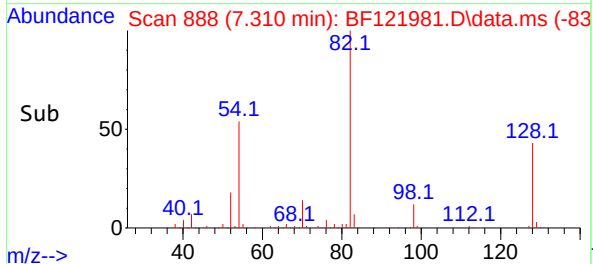
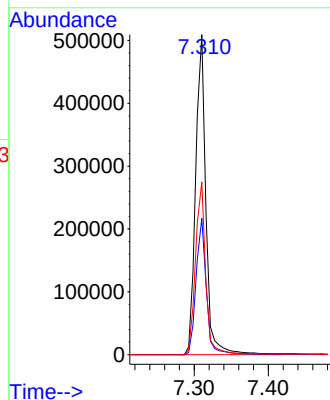
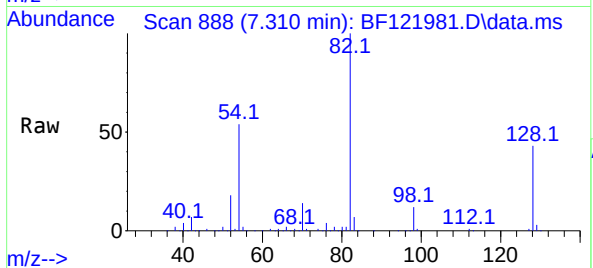
#23  
Nitrobenzene-d5  
Concen: 62.92 ng  
RT: 7.310 min Scan# 888  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion: 82 Resp: 489922  
Ion Ratio Lower Upper  
82 100  
128 42.6 35.0 52.4  
54 54.0 43.9 65.9

Instrument :  
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ClientSampled :  
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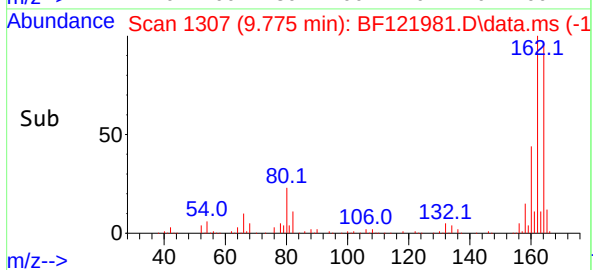
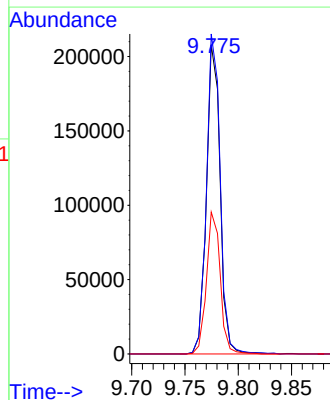
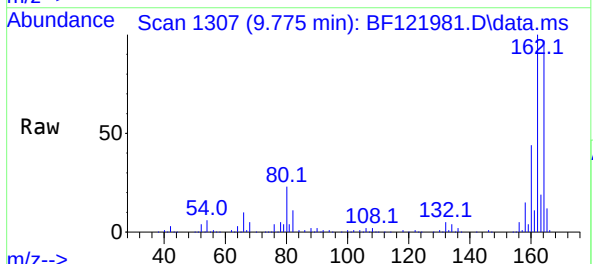
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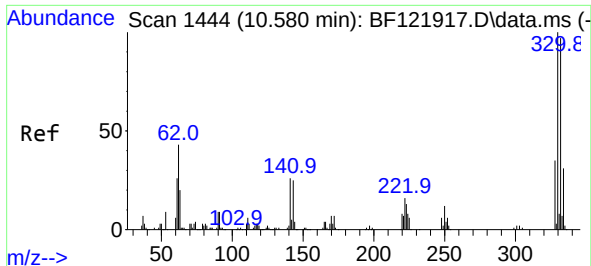
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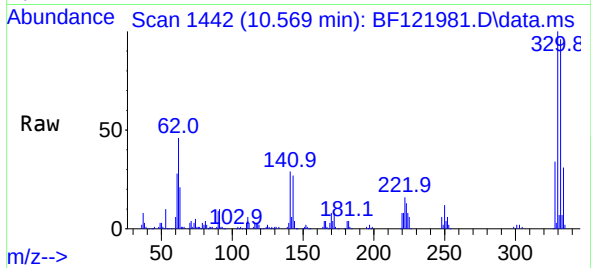
#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.775 min Scan# 1307  
Delta R.T. -0.011 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion:164 Resp: 186111  
Ion Ratio Lower Upper  
164 100  
162 103.5 83.2 124.8  
160 45.9 37.5 56.3

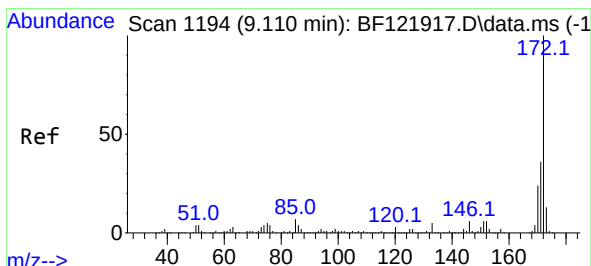
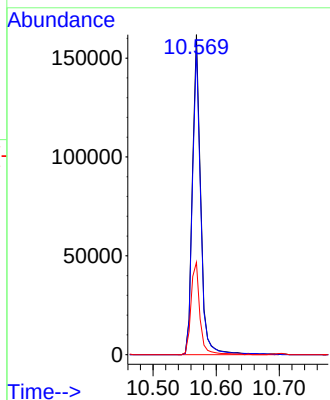
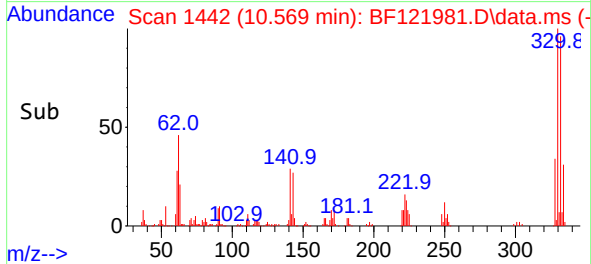




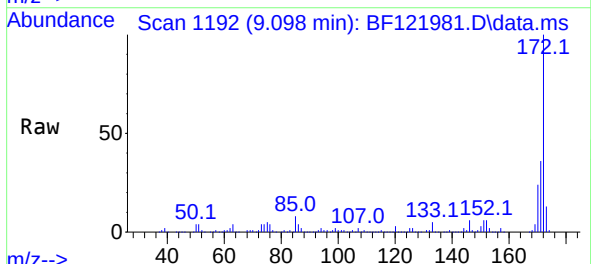
#42  
2,4,6-Tribromophenol  
Concen: 64.43 ng  
RT: 10.569 min Scan# 1442  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



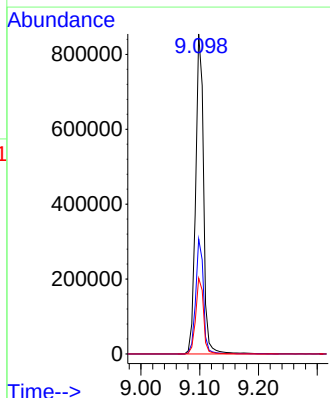
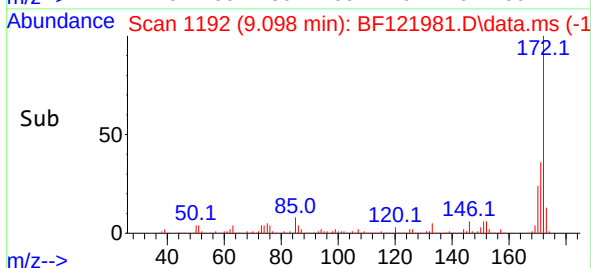
Tgt Ion: 330 Resp: 148326  
Ion Ratio Lower Upper  
330 100  
332 95.9 77.3 115.9  
141 31.0 22.3 33.5



#45  
2-Fluorobiphenyl  
Concen: 63.04 ng  
RT: 9.098 min Scan# 1192  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



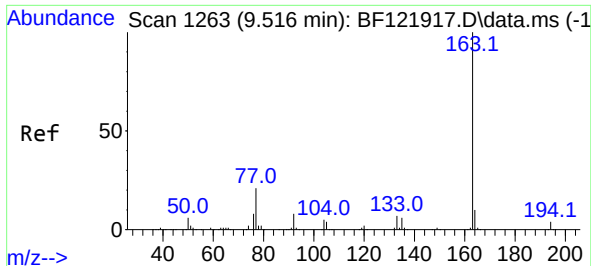
Tgt Ion: 172 Resp: 797416  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.1 43.7  
170 23.7 19.8 29.6



Instrument :  
BNA\_F  
ClientSampled :  
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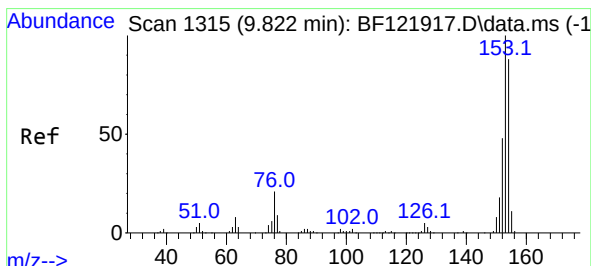
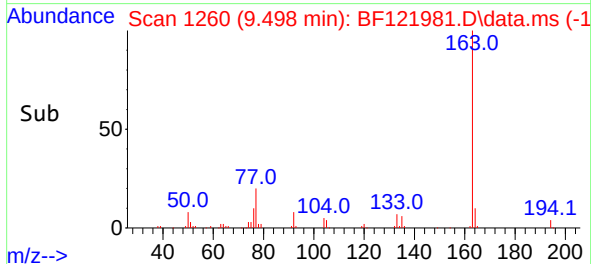
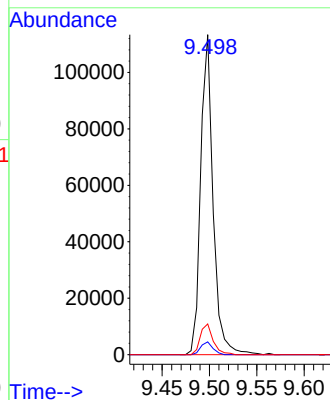
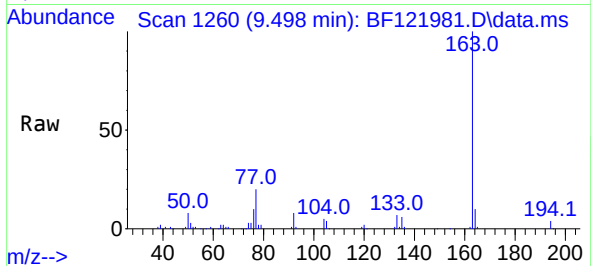
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Dimethylphthalate  
Concen: 7.63 ng  
RT: 9.498 min Scan# 1260  
Delta R.T. -0.018 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion:163 Resp: 103807  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.3 4.9  
164 9.6 8.2 12.4

Instrument :  
BNA\_F  
ClientSampled :  
BG-3

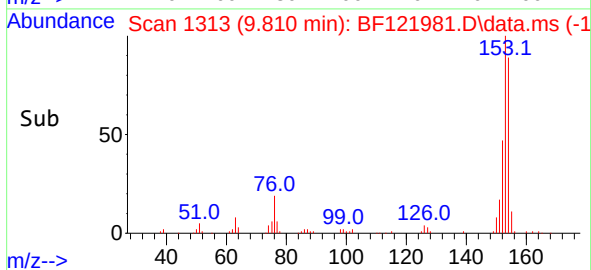
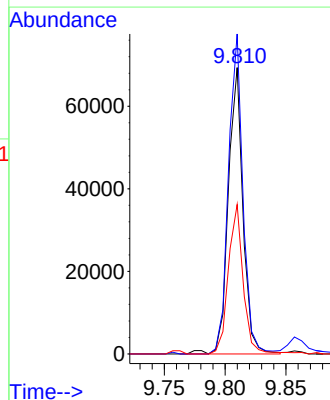
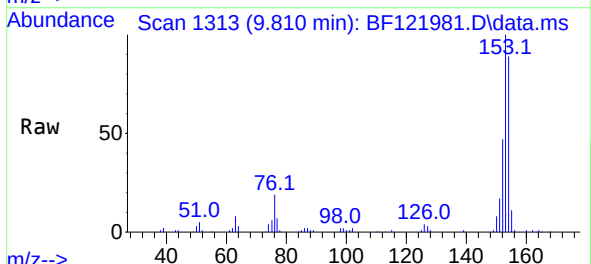
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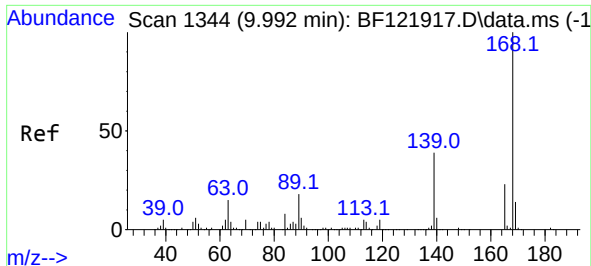
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#52  
Acenaphthene  
Concen: 5.42 ng  
RT: 9.810 min Scan# 1313  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion:154 Resp: 58254  
Ion Ratio Lower Upper  
154 100  
153 111.7 89.8 134.8  
152 52.2 43.2 64.8





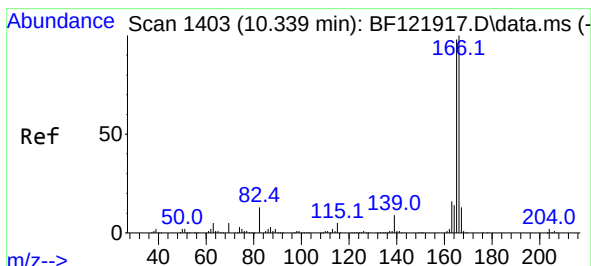
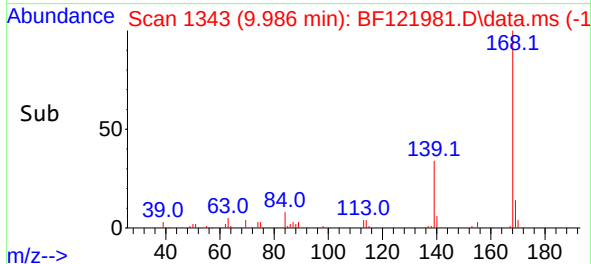
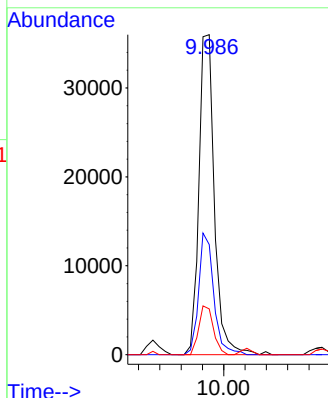
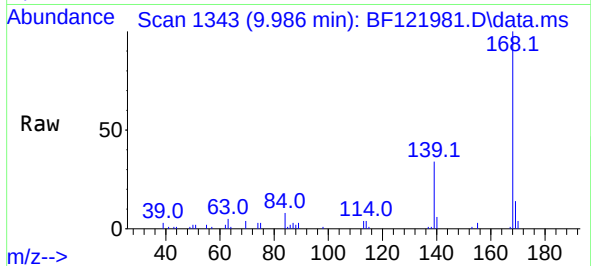
#55  
Dibenzenofuran  
Concen: 2.33 ng  
RT: 9.986 min Scan# 1343  
Delta R.T. -0.006 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 36601 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 34.4  | 31.0  | 46.6  |
| 169       | 14.3  | 11.3  | 16.9  |

Instrument :  
BNA\_F  
ClientSampled :  
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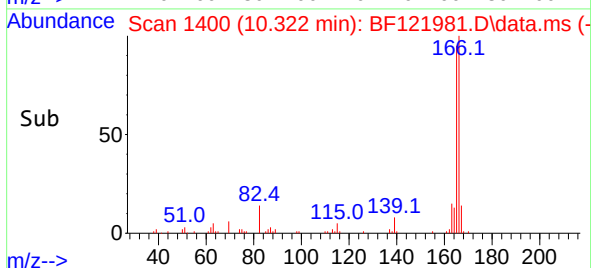
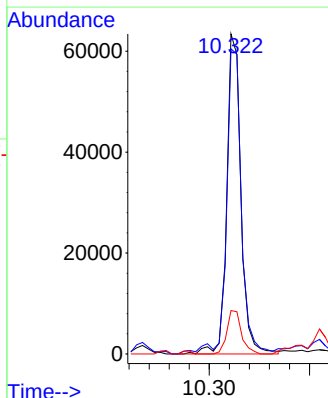
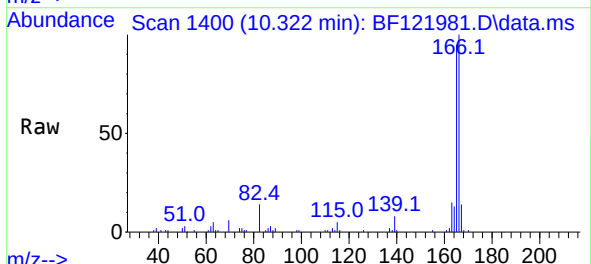
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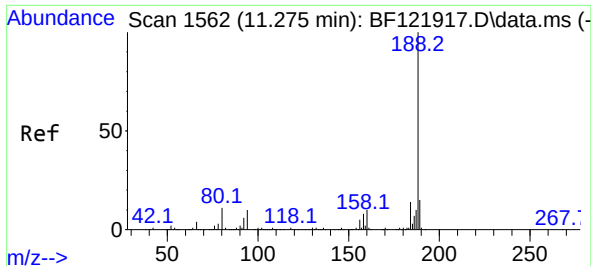


#58  
Fluorene  
Concen: 4.89 ng  
RT: 10.322 min Scan# 1400  
Delta R.T. -0.018 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 61889 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 95.4  | 79.1  | 118.7 |
| 167       | 13.5  | 11.0  | 16.6  |

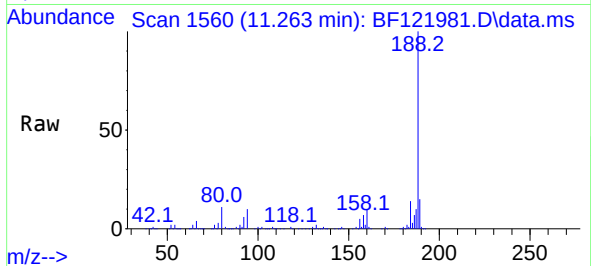






#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.263 min Scan# 1560  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

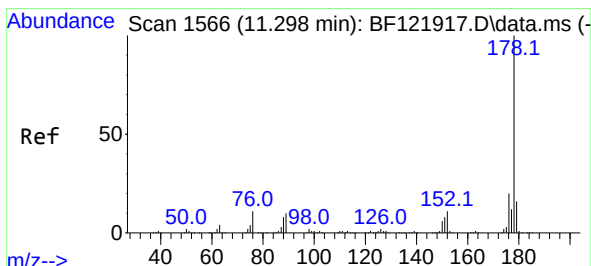
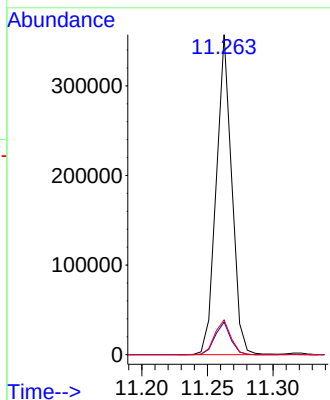
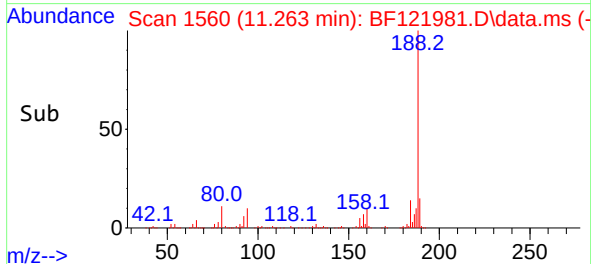
Instrument :  
BNA\_F  
ClientSampled :  
BG-3



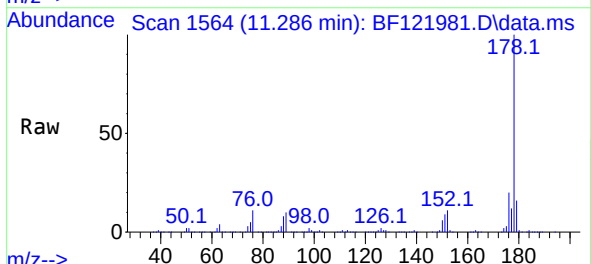
Tgt Ion:188 Resp: 292776  
Ion Ratio Lower Upper  
188 100  
94 10.2 8.3 12.5  
80 10.8 9.1 13.7

Manual Integrations  
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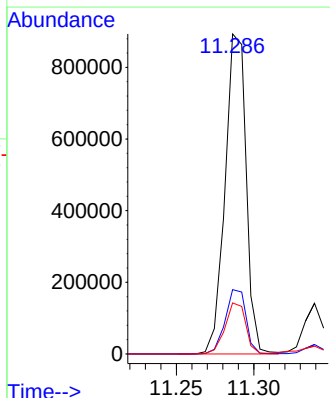
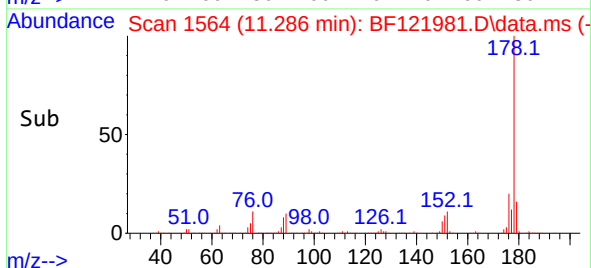
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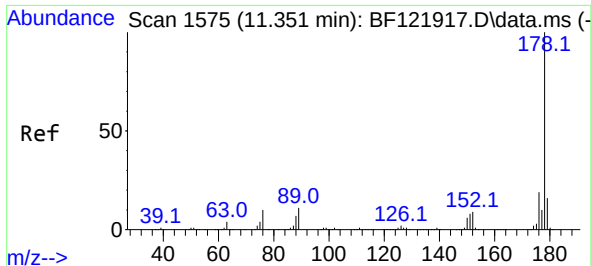


#71  
Phenanthrene  
Concen: 52.74 ng  
RT: 11.286 min Scan# 1564  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



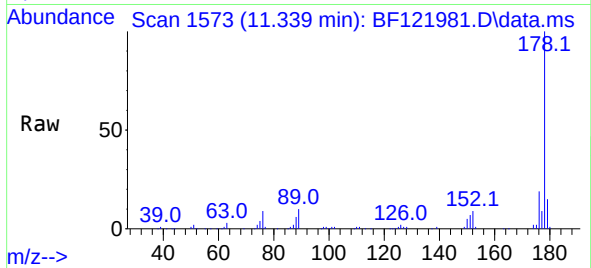
Tgt Ion:178 Resp: 846565  
Ion Ratio Lower Upper  
178 100  
176 20.1 15.9 23.9  
179 16.0 12.2 18.4





#72  
 Anthracene  
 Concen: 7.25 ng  
 RT: 11.339 min Scan# 1573  
 Delta R.T. -0.012 min  
 Lab File: BF121981.D  
 Acq: 15 Oct 2020 5:59

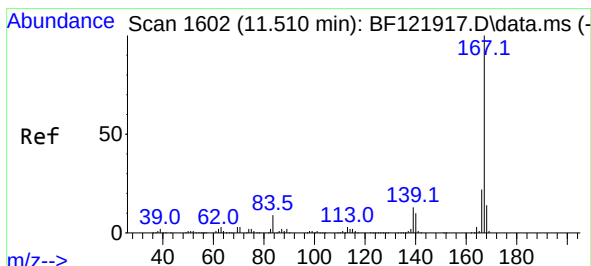
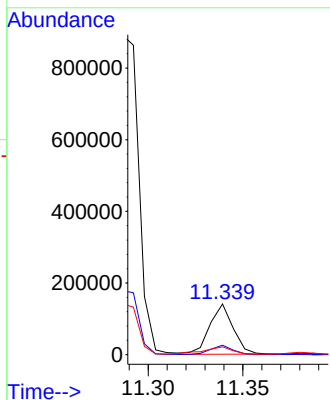
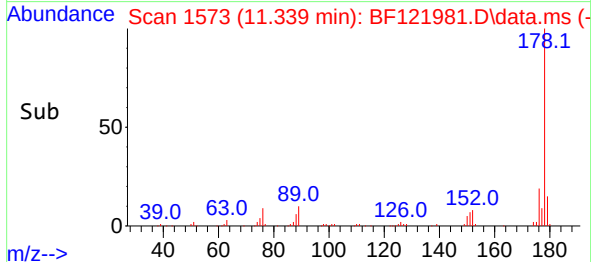
Instrument :  
 BNA\_F  
 ClientSampled :  
 BG-3



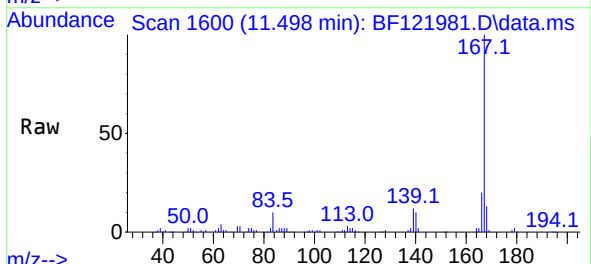
Tgt Ion:178 Resp: 120720  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.7 23.5  
 179 15.3 12.7 19.1

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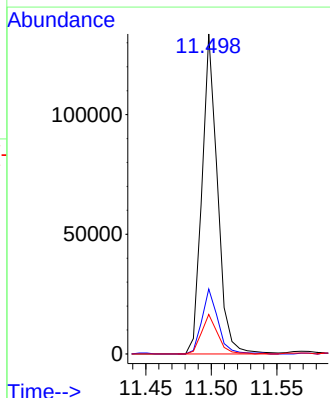
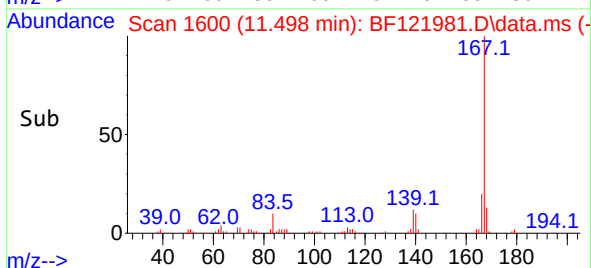
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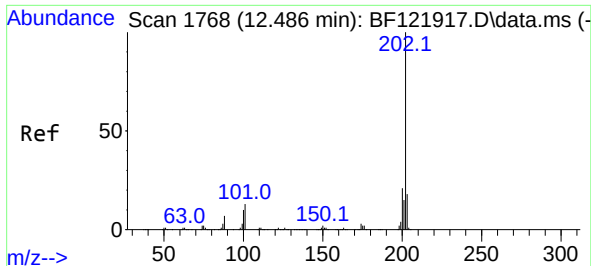


#73  
 Carbazole  
 Concen: 7.46 ng  
 RT: 11.498 min Scan# 1600  
 Delta R.T. -0.012 min  
 Lab File: BF121981.D  
 Acq: 15 Oct 2020 5:59



Tgt Ion:167 Resp: 110491  
 Ion Ratio Lower Upper  
 167 100  
 166 20.3 17.8 26.6  
 139 12.4 10.8 16.2





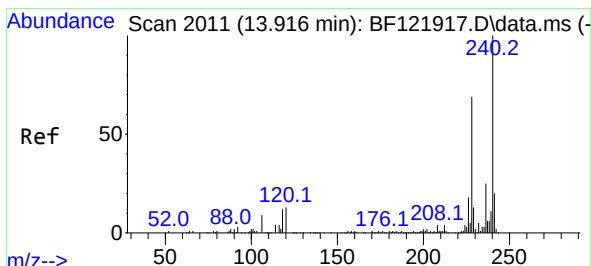
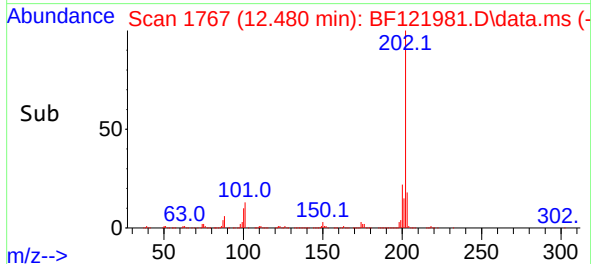
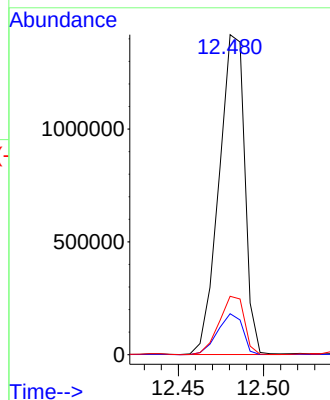
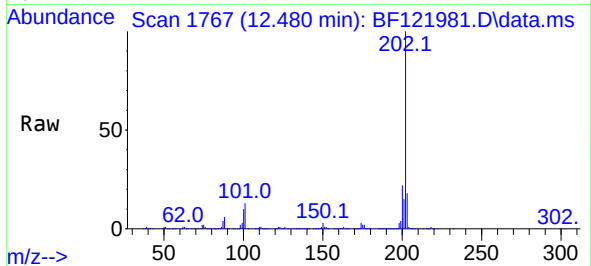
#75  
Fluoranthene  
Concen: 86.66 ng  
RT: 12.480 min Scan# 1767  
Delta R.T. -0.006 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion:202 Resp: 1491580  
Ion Ratio Lower Upper  
202 100  
101 12.8 0.0 33.4  
203 18.3 0.0 37.9

Instrument :  
BNA\_F  
ClientSampled :  
BG-3

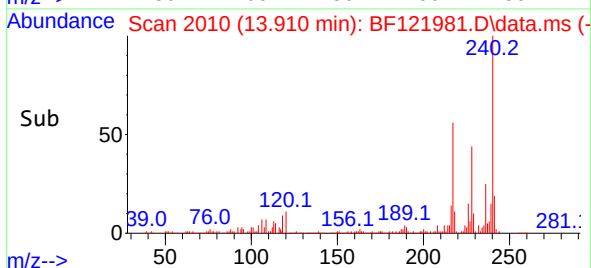
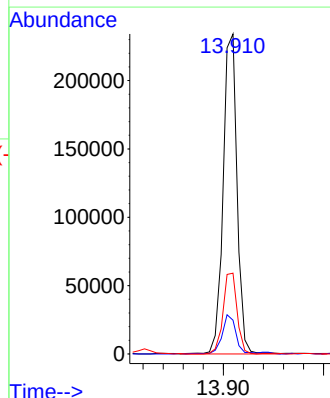
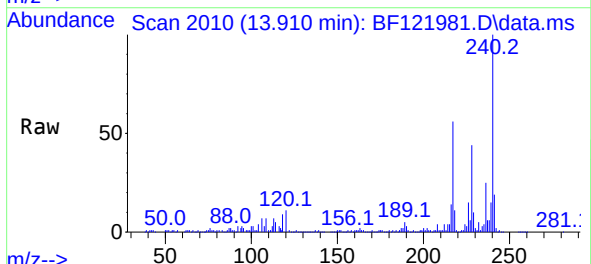
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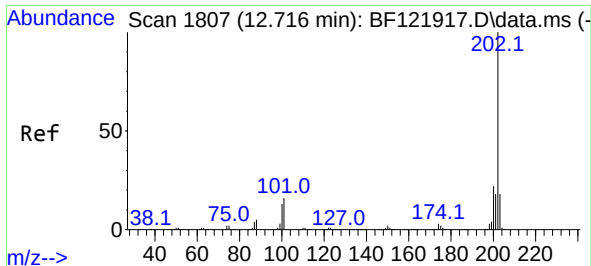
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#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.910 min Scan# 2010  
Delta R.T. -0.006 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

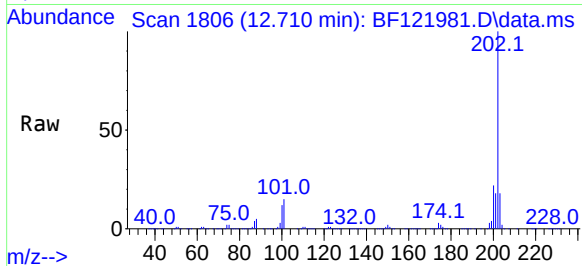
Tgt Ion:240 Resp: 225284  
Ion Ratio Lower Upper  
240 100  
120 10.5 9.2 13.8  
236 25.3 20.9 31.3





#78  
Pyrene  
Concen: 72.34 ng  
RT: 12.710 min Scan# 1806  
Delta R.T. -0.006 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

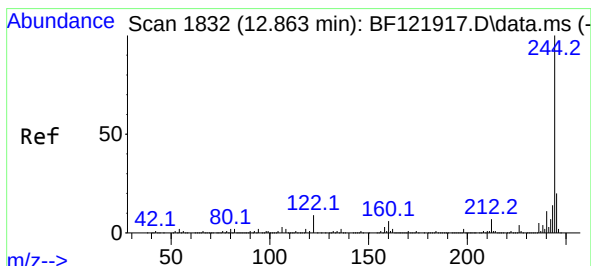
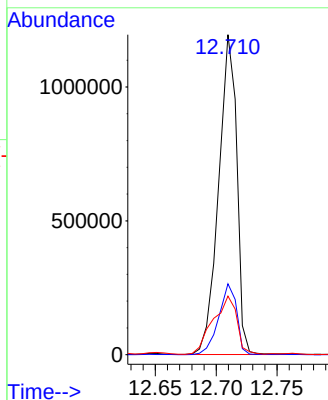
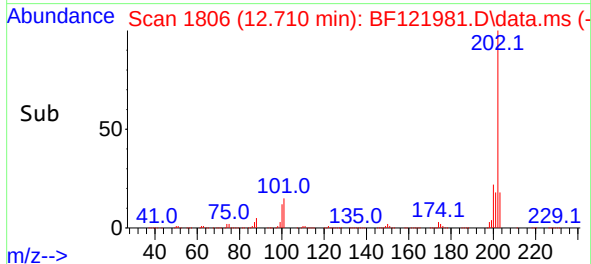
Instrument :  
BNA\_F  
ClientSampled :  
BG-3



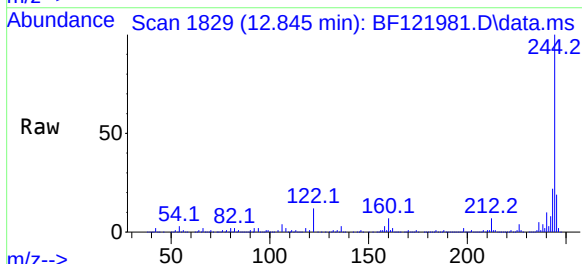
Tgt Ion:202 Resp: 1241882  
Ion Ratio Lower Upper  
202 100  
200 22.2 17.4 26.2  
203 18.3 14.6 21.8

Manual Integrations  
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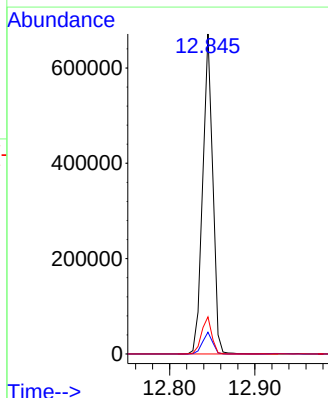
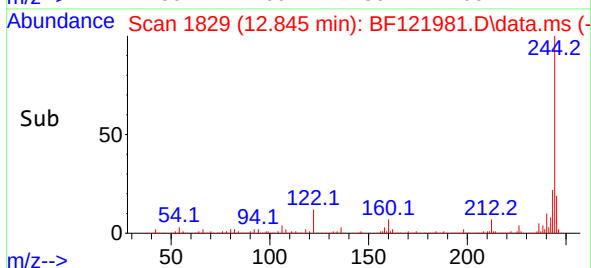
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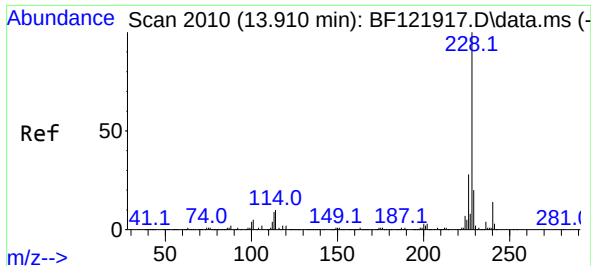


#79  
Terphenyl-d14  
Concen: 46.49 ng  
RT: 12.845 min Scan# 1829  
Delta R.T. -0.018 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



Tgt Ion:244 Resp: 549621  
Ion Ratio Lower Upper  
244 100  
212 6.8 5.4 8.2  
122 11.6 8.1 12.1





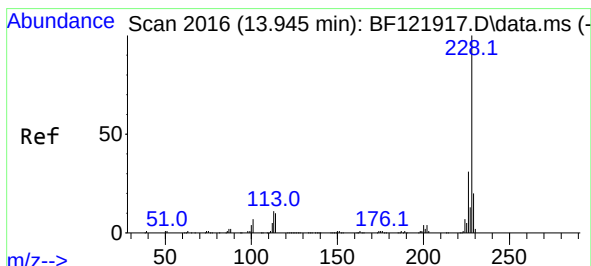
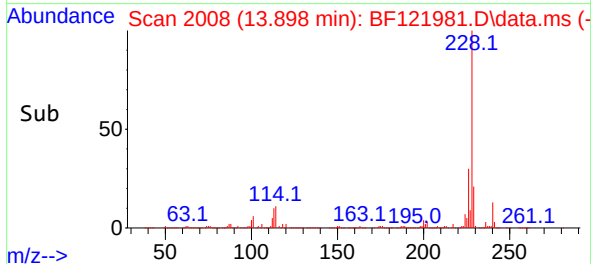
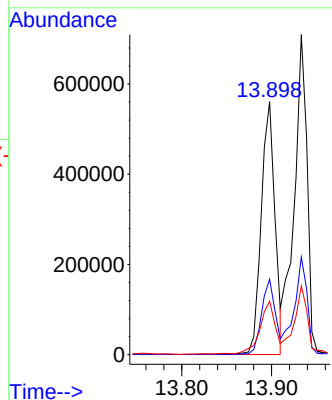
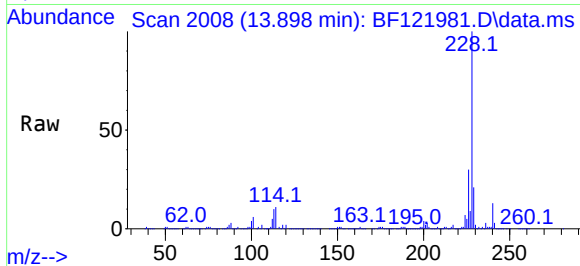
#81  
Benzo(a)anthracene  
Concen: 40.64 ng  
RT: 13.898 min Scan# 2008  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Instrument :  
BNA\_F  
ClientSampled :  
BG-3

Tgt Ion:228 Resp: 600009  
Ion Ratio Lower Upper  
228 100  
226 29.8 22.3 33.5  
229 21.1 16.2 24.4

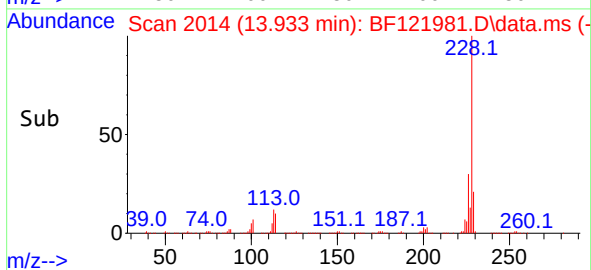
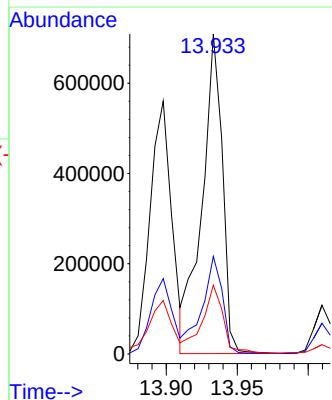
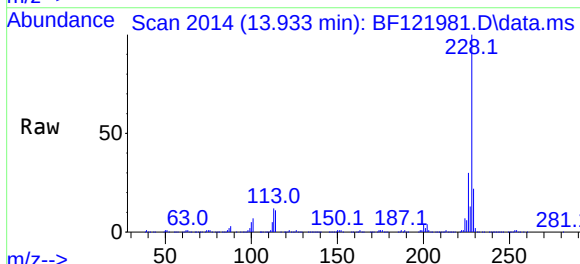
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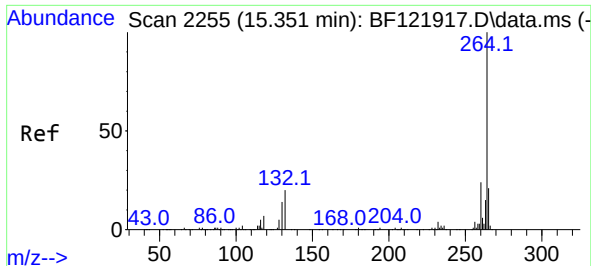
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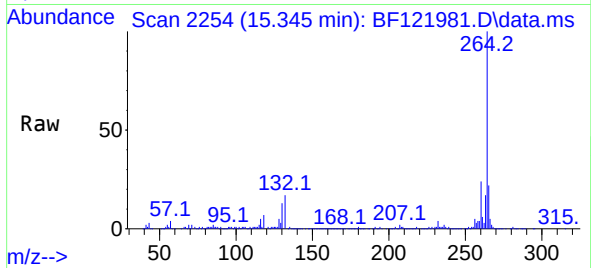
#83  
Chrysene  
Concen: 49.05 ng  
RT: 13.933 min Scan# 2014  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

Tgt Ion:228 Resp: 710812  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.6 37.0  
229 21.5 15.9 23.9

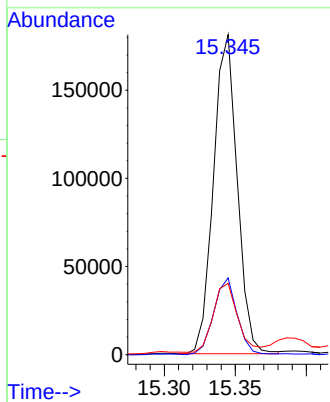
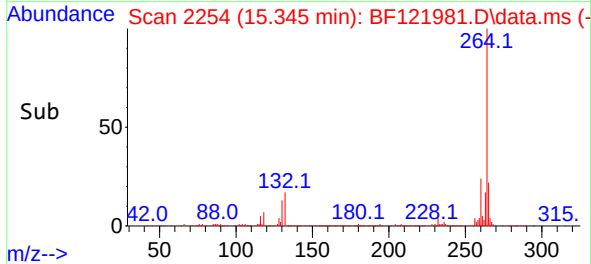




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.345 min Scan# 2254  
Delta R.T. -0.006 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



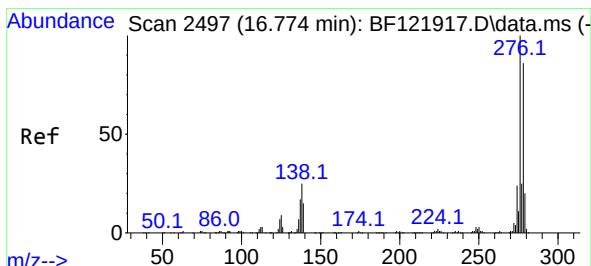
Tgt Ion:264 Resp: 210127  
Ion Ratio Lower Upper  
264 100  
260 24.0 18.7 28.1  
265 22.3 17.3 25.9



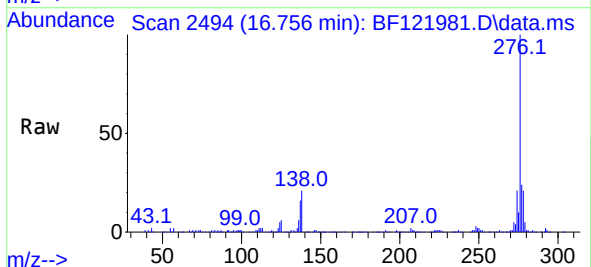
Instrument :  
BNA\_F  
ClientSampled :  
BG-3

Manual Integrations  
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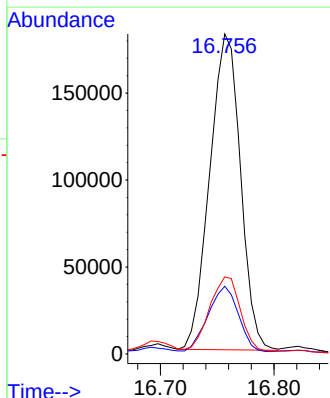
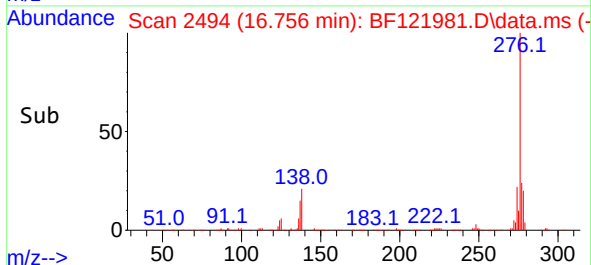
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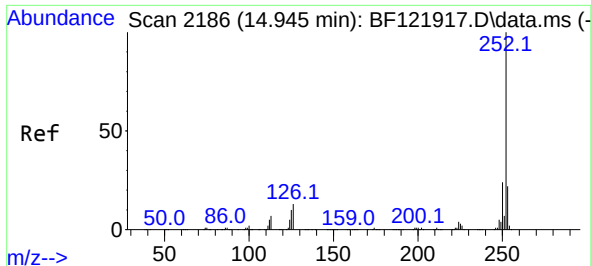


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 25.04 ng  
RT: 16.756 min Scan# 2494  
Delta R.T. -0.018 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

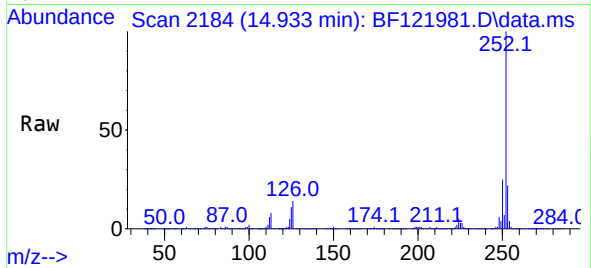


Tgt Ion:276 Resp: 341560  
Ion Ratio Lower Upper  
276 100  
138 21.3 19.9 29.9  
277 24.4 20.4 30.6

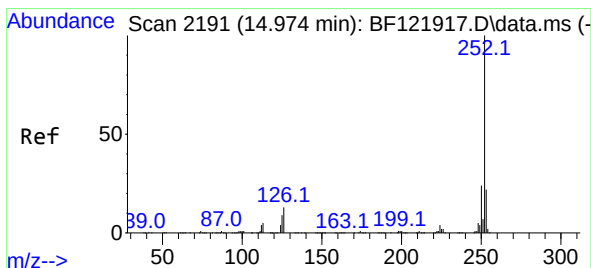
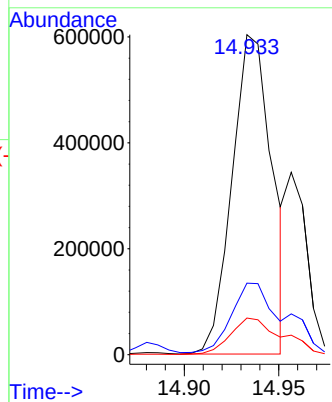
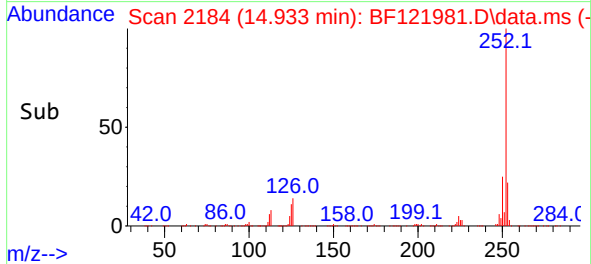




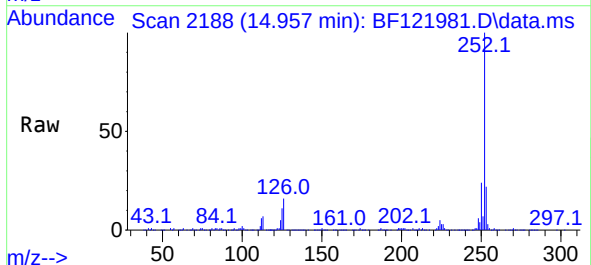
#88  
Benzo(b)fluoranthene  
Concen: 62.43 ng m  
RT: 14.933 min Scan# 2184  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



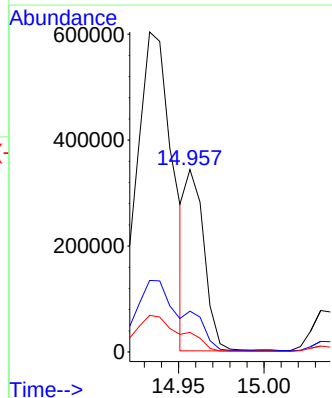
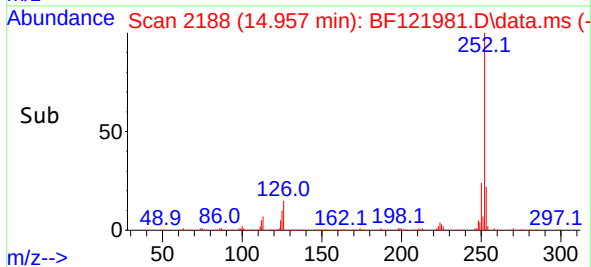
Tgt Ion:252 Resp: 886669  
Ion Ratio Lower Upper  
252 100  
253 22.4 18.2 27.2  
125 11.4 8.0 12.0



#89  
Benzo(k)fluoranthene  
Concen: 19.07 ng m  
RT: 14.957 min Scan# 2188  
Delta R.T. -0.018 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



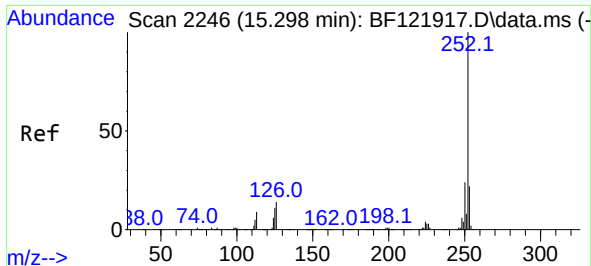
Tgt Ion:252 Resp: 257292  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.8 26.6  
125 10.7 7.7 11.5



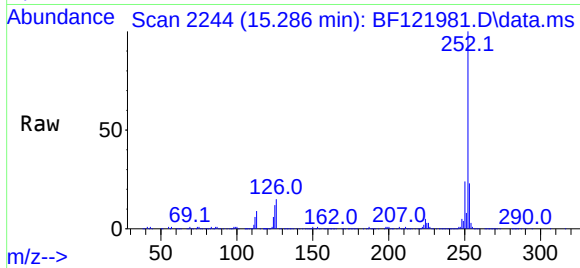
Instrument :  
BNA\_F  
ClientSampled :  
BG-3

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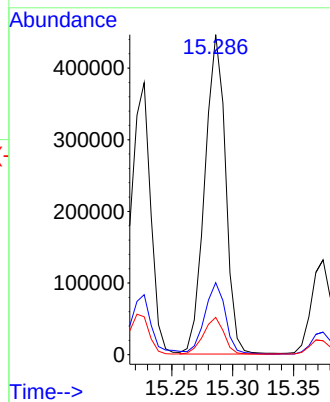
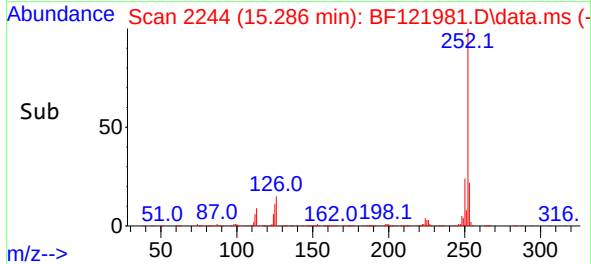
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#90  
Benzo(a)pyrene  
Concen: 43.16 ng  
RT: 15.286 min Scan# 2244  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



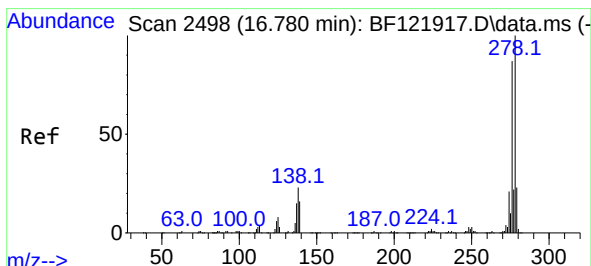
Tgt Ion:252 Resp: 529502  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.3 25.9  
125 11.6 8.6 13.0



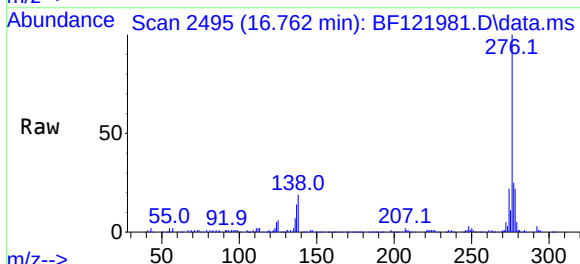
Instrument :  
BNA\_F  
ClientSampled :  
BG-3

Manual Integrations  
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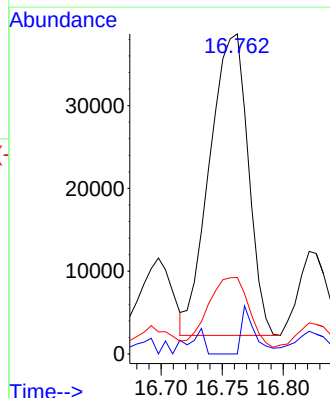
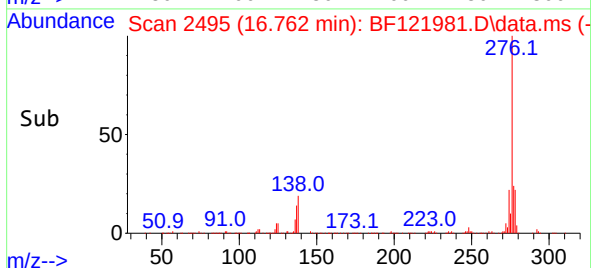
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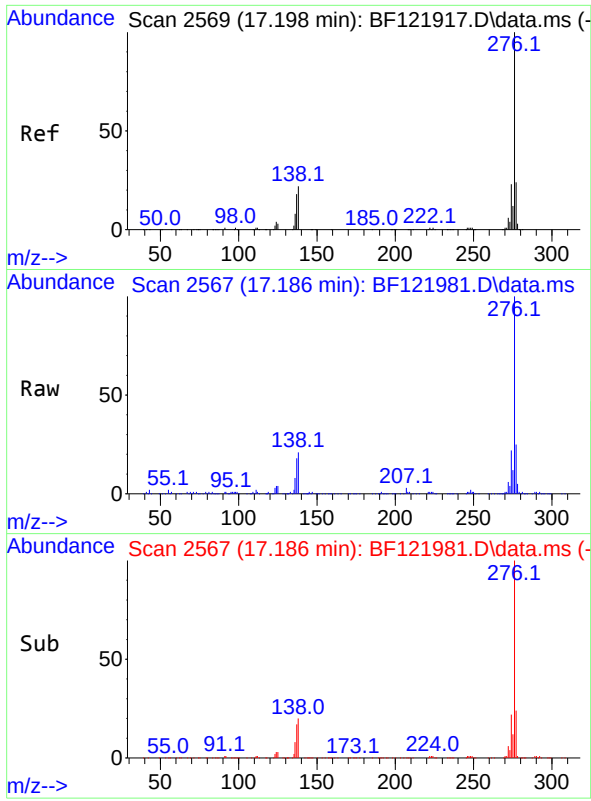
#91  
Dibenzo(a,h)anthracene  
Concen: 7.12 ng m  
RT: 16.762 min Scan# 2495  
Delta R.T. -0.018 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59



Tgt Ion:278 Resp: 80020  
Ion Ratio Lower Upper  
278 100  
139 0.0 13.0 19.4#  
279 23.9 19.0 28.4

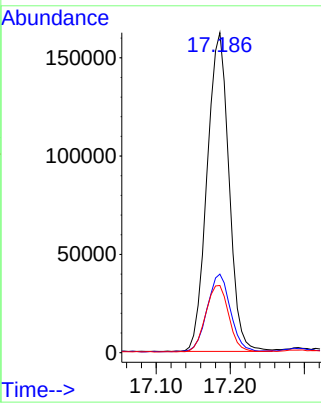






#92  
Benzo(g,h,i)perylene  
Concen: 29.54 ng  
RT: 17.186 min Scan# 2567  
Delta R.T. -0.012 min  
Lab File: BF121981.D  
Acq: 15 Oct 2020 5:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 332146 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.6  | 19.4  | 29.2   |
| 138       | 21.0  | 17.8  | 26.6   |



Instrument :  
BNA\_F  
ClientSampleId :  
BG-3

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