

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061021\  
 Data File : BF124243.D  
 Acq On : 10 Jun 2021 20:55  
 Operator : JU/CG  
 Sample : M2644-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 329

Manual Integrations  
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Quant Time: Jun 11 01:26:07 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF060321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 10 01:53:56 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.846  | 152  | 31739    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.128  | 136  | 126146   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.886  | 164  | 72426    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.375 | 188  | 119827   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 14.022 | 240  | 82405    | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.498 | 264  | 83881    | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.475  | 112  | 126630   | 60.059 | ng    | 0.00     |
| 7) Phenol-d6                | 6.487  | 99   | 163437   | 57.669 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.410  | 82   | 121679   | 38.257 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.675 | 330  | 57297    | 55.840 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.204  | 172  | 230560   | 40.059 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.957 | 244  | 187637   | 31.262 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 50) Dimethylphthalate       | 9.598  | 163  | 41197    | 6.875  | ng    | 98       |
| 52) Acenaphthene            | 9.916  | 154  | 9590     | 2.030  | ng    | 90       |
| 58) Fluorene                | 10.434 | 166  | 12458    | 2.195  | ng    | # 89     |
| 71) Phenanthrene            | 11.398 | 178  | 157432   | 21.032 | ng    | 97       |
| 72) Anthracene              | 11.451 | 178  | 45296m   | 6.009  | ng    |          |
| 73) Carbazole               | 11.604 | 167  | 13612    | 2.072  | ng    | # 84     |
| 75) Fluoranthene            | 12.592 | 202  | 440864   | 56.109 | ng    | 97       |
| 78) Pyrene                  | 12.822 | 202  | 390484   | 49.347 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.010 | 228  | 159672   | 26.598 | ng    | 97       |
| 83) Chrysene                | 14.045 | 228  | 199829   | 34.501 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.974 | 276  | 51069    | 10.990 | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 15.069 | 252  | 234591m  | 36.003 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.092 | 252  | 59653m   | 9.671  | ng    |          |
| 90) Benzo(a)pyrene          | 15.439 | 252  | 116559   | 20.595 | ng    | 96       |
| 91) Dibenzo(a,h)anthracene  | 16.980 | 278  | 14703    | 6.428  | ng    | # 67     |
| 92) Benzo(g,h,i)perylene    | 17.427 | 276  | 40815    | 10.198 | ng    | # 88     |
| -----                       |        |      |          |        |       |          |

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

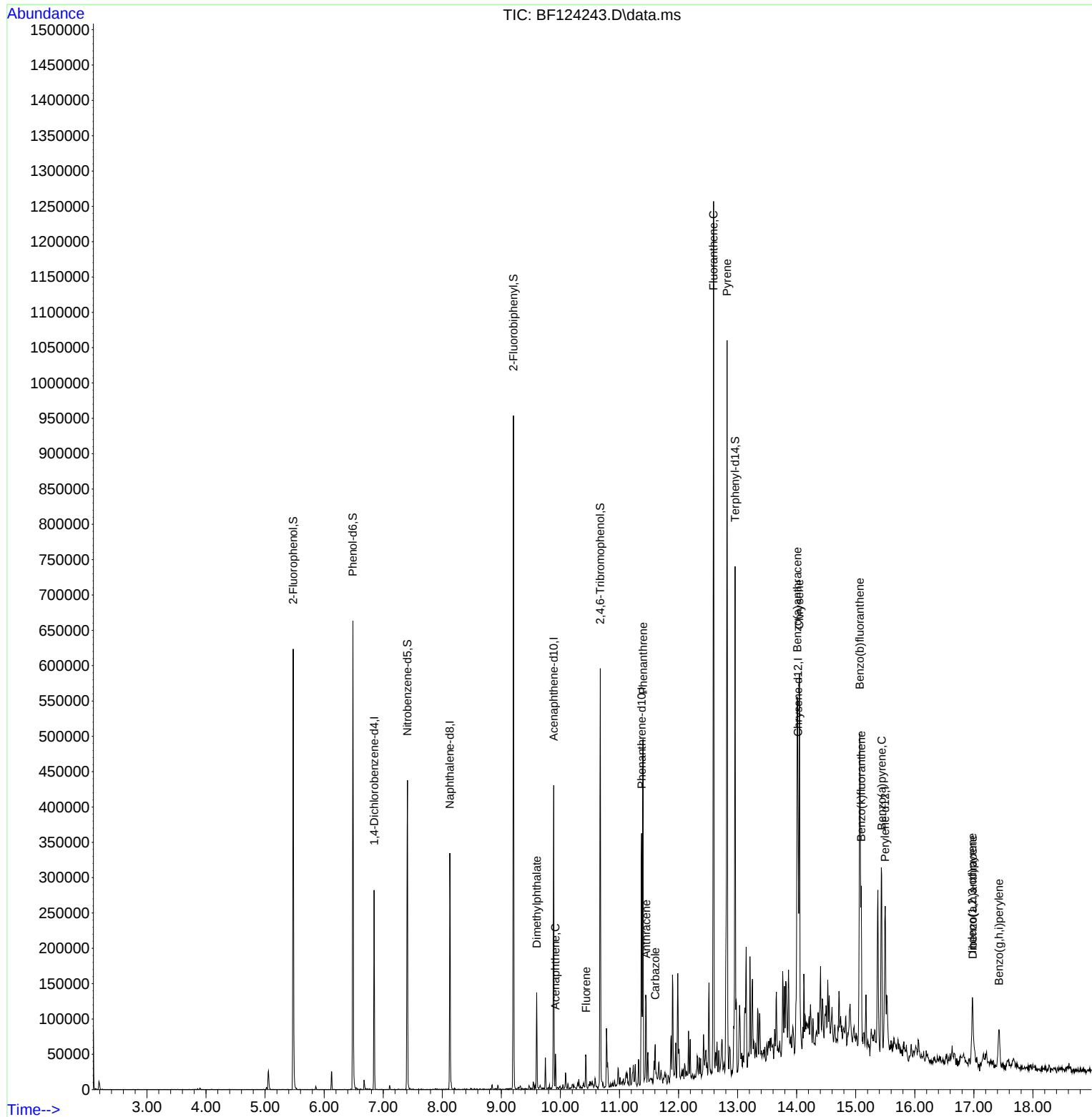
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061021\  
Data File : BF124243.D  
Acq On : 10 Jun 2021 20:55  
Operator : JU/CG  
Sample : M2644-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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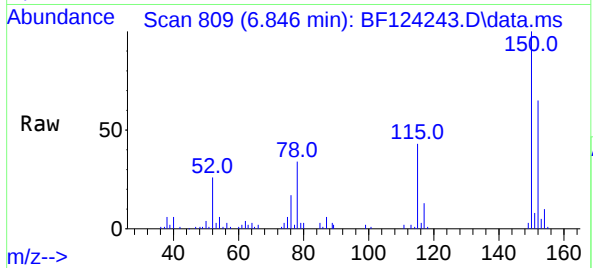
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Quant Time: Jun 11 01:26:07 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF060321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 10 01:53:56 2021  
Response via : Initial Calibration

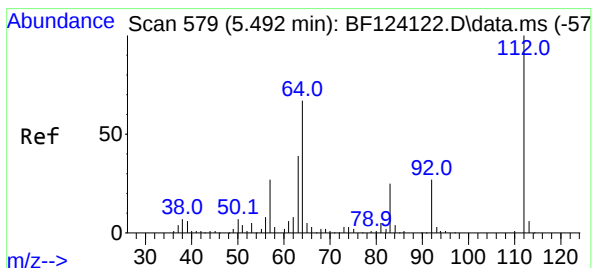
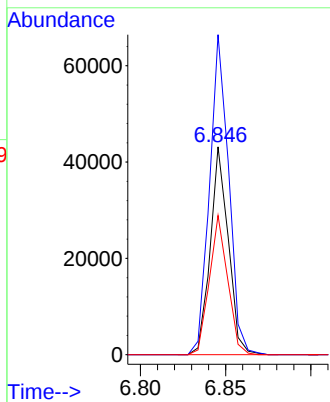
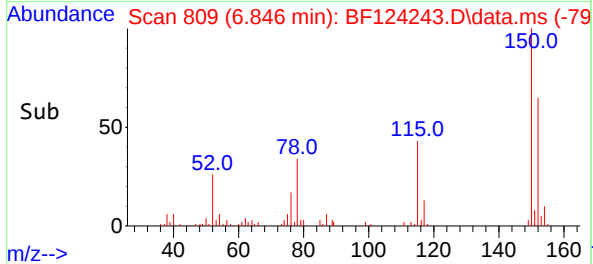




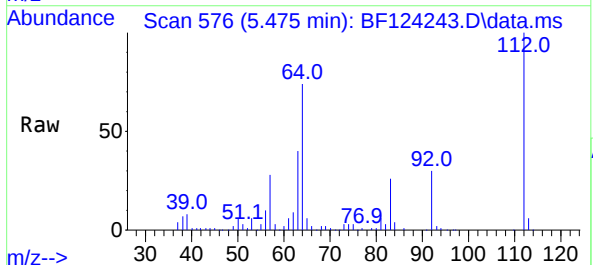
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.846 min Scan# 809  
Delta R.T. -0.005 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



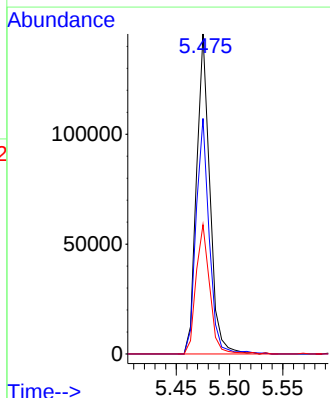
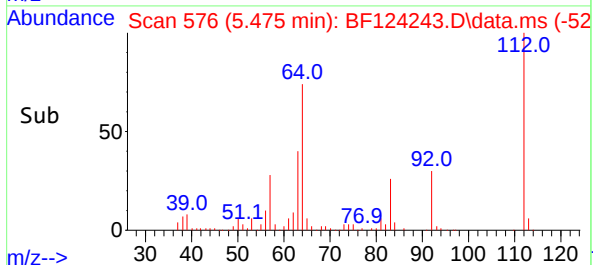
Tgt Ion:152 Resp: 31739  
Ion Ratio Lower Upper  
152 100  
150 153.9 127.0 190.6  
115 67.0 54.3 81.5



#5  
2-Fluorophenol  
Concen: 60.059 ng  
RT: 5.475 min Scan# 576  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



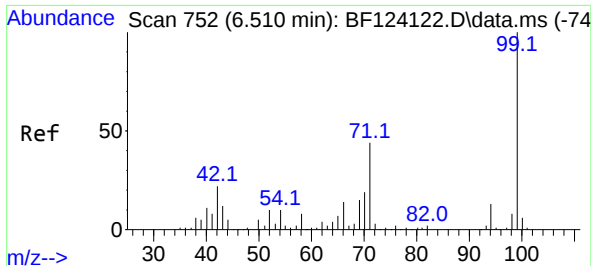
Tgt Ion:112 Resp: 126630  
Ion Ratio Lower Upper  
112 100  
64 73.6 61.4 92.0  
63 40.4 33.0 49.4



Instrument :  
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ClientSampleId :  
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#7  
Phenol-d6  
Concen: 57.669 ng  
RT: 6.487 min Scan# 748  
Delta R.T. -0.011 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

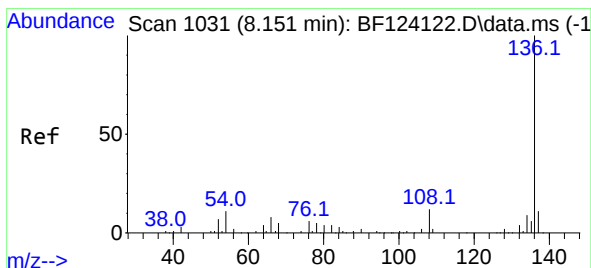
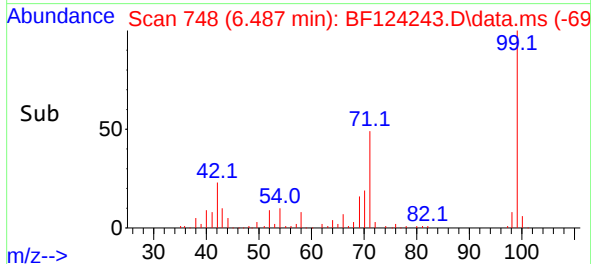
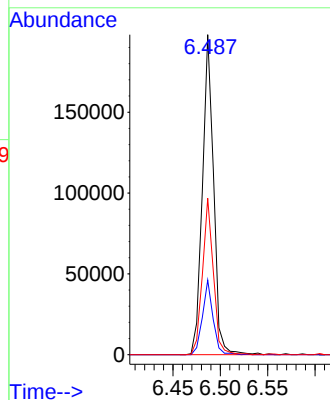
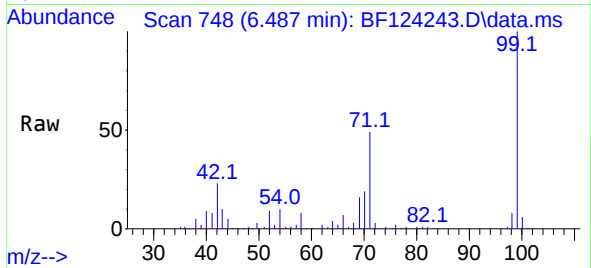
Tgt Ion: 99 Resp: 163437

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 23.3  | 19.8  | 29.8  |
| 71  | 48.9  | 31.1  | 46.7# |

Instrument :  
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ClientSampleId :  
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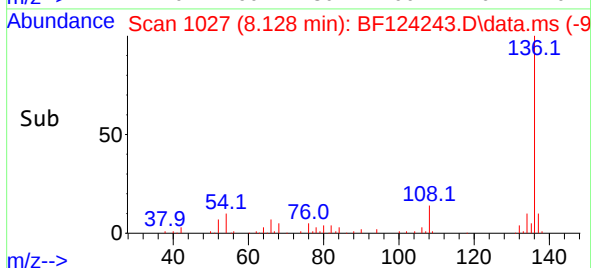
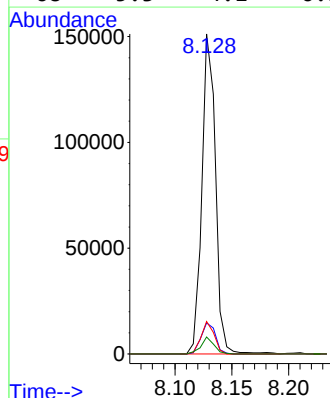
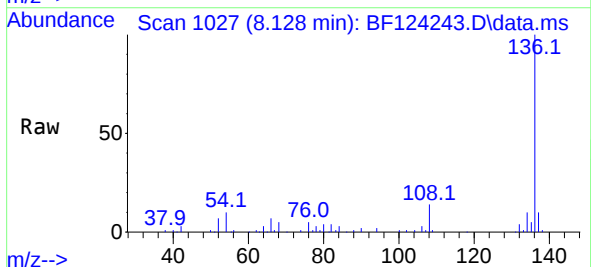
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.128 min Scan# 1027  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

Tgt Ion: 136 Resp: 126146

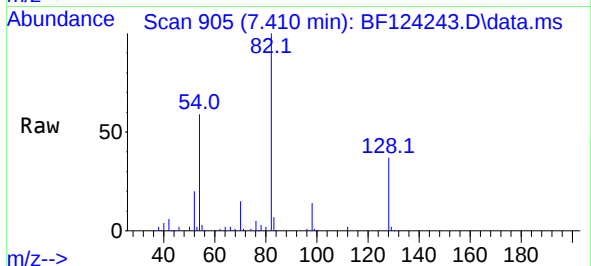
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 9.7   | 8.7   | 13.1  |
| 54  | 10.2  | 9.8   | 14.6  |
| 68  | 5.3   | 4.1   | 6.1   |





#23  
Nitrobenzene-d5  
Concen: 38.257 ng  
RT: 7.410 min Scan# 905  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

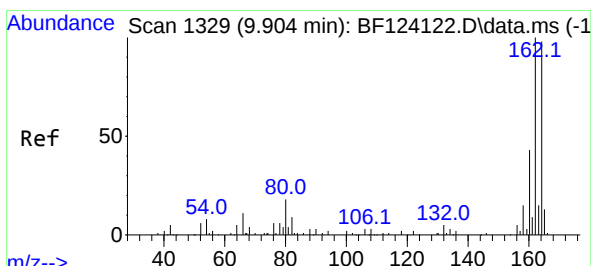
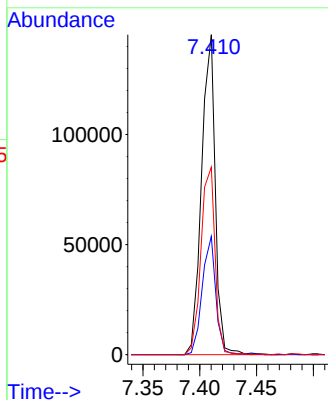
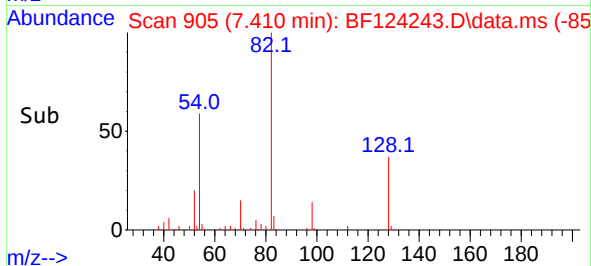
Instrument :  
BNA\_F  
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329



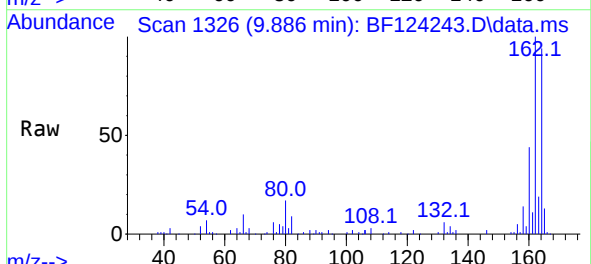
Tgt Ion: 82 Resp: 121679  
Ion Ratio Lower Upper  
82 100  
128 37.0 29.4 44.2  
54 58.6 54.1 81.1

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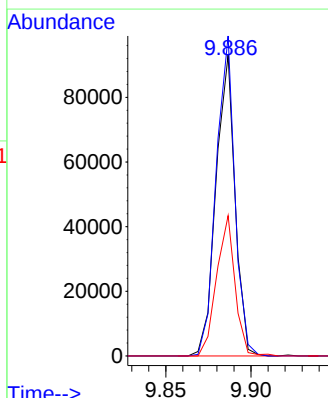
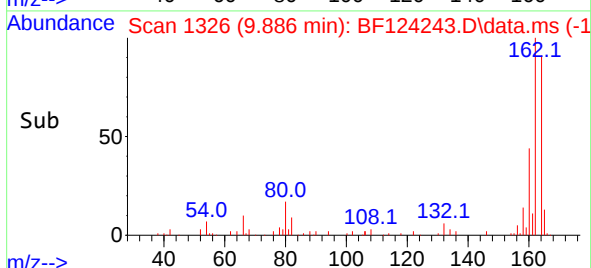
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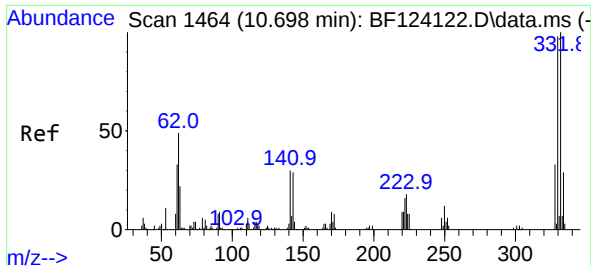


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.886 min Scan# 1326  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

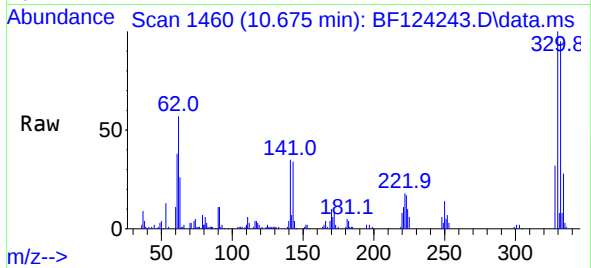


Tgt Ion: 164 Resp: 72426  
Ion Ratio Lower Upper  
164 100  
162 106.3 80.7 121.1  
160 46.6 37.3 55.9

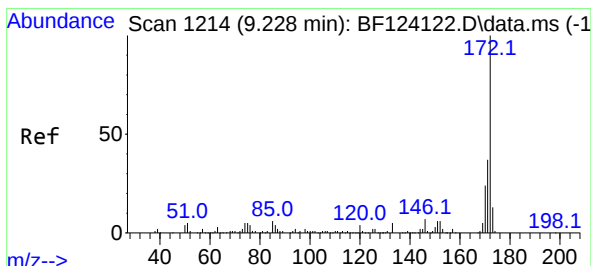
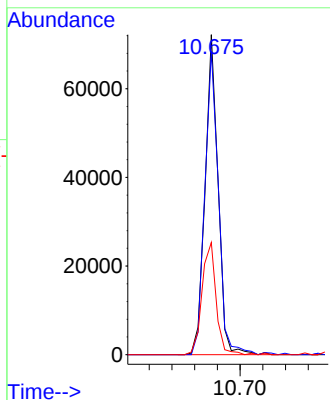
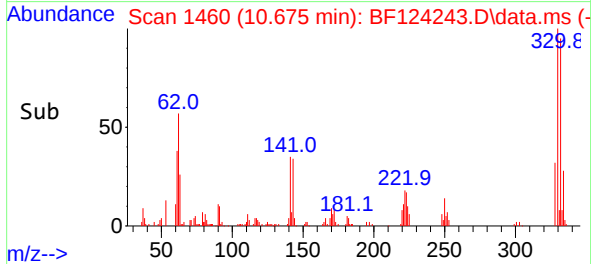




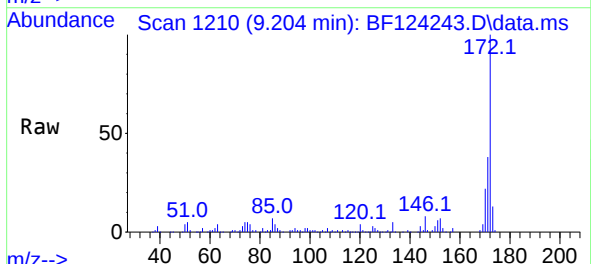
#42  
2,4,6-Tribromophenol  
Concen: 55.840 ng  
RT: 10.675 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



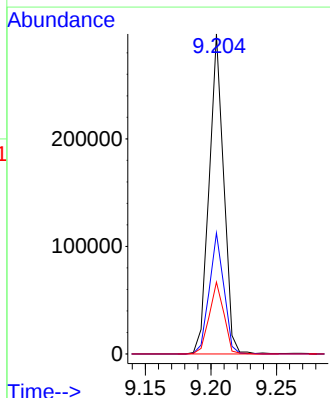
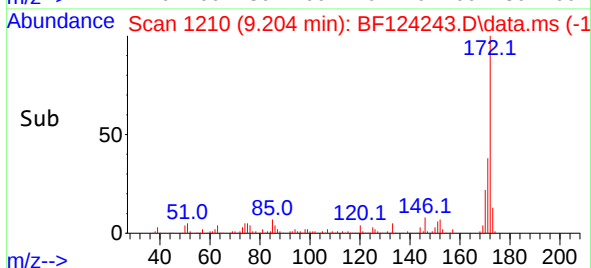
Tgt Ion: 330 Resp: 57297  
Ion Ratio Lower Upper  
330 100  
332 99.7 77.1 115.7  
141 38.0 27.9 41.9



#45  
2-Fluorobiphenyl  
Concen: 40.059 ng  
RT: 9.204 min Scan# 1210  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



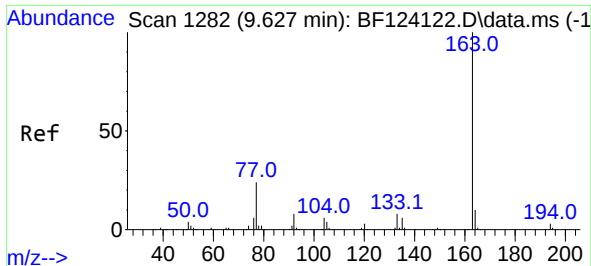
Tgt Ion: 172 Resp: 230560  
Ion Ratio Lower Upper  
172 100  
171 37.8 28.1 42.1  
170 22.5 19.2 28.8



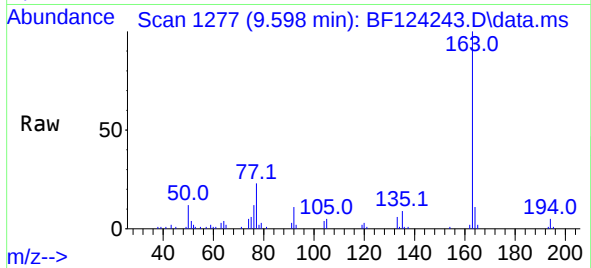
Instrument :  
BNA\_F  
ClientSampled :  
329

Manual Integrations  
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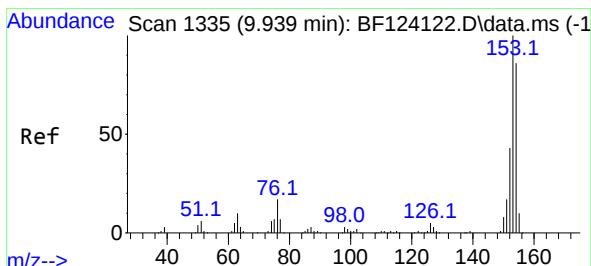
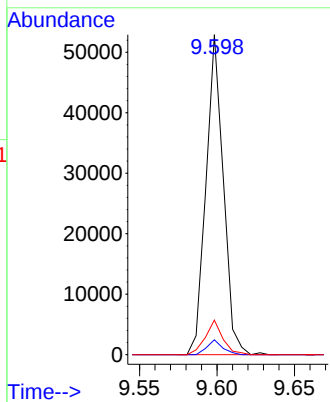
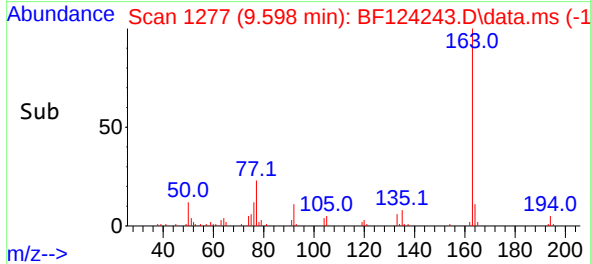
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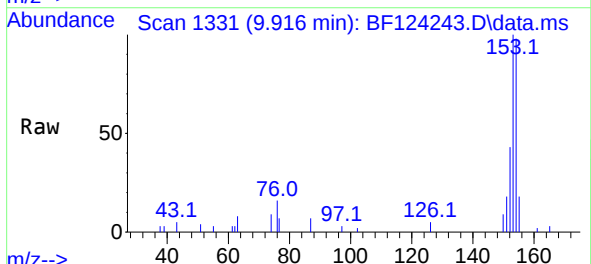
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Dimethylphthalate  
Concen: 6.875 ng  
RT: 9.598 min Scan# 1277  
Delta R.T. -0.017 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



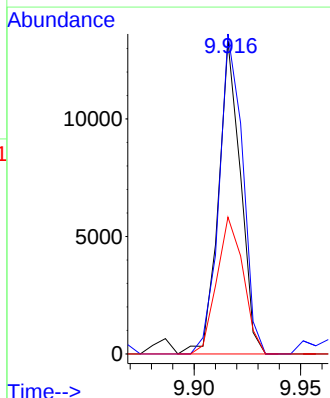
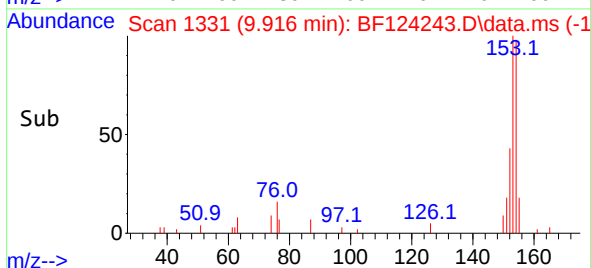
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Ion Ratio Lower Upper  
163 100  
194 4.7 3.1 4.7  
164 10.8 8.2 12.2



#52  
Acenaphthene  
Concen: 2.030 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. -0.011 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



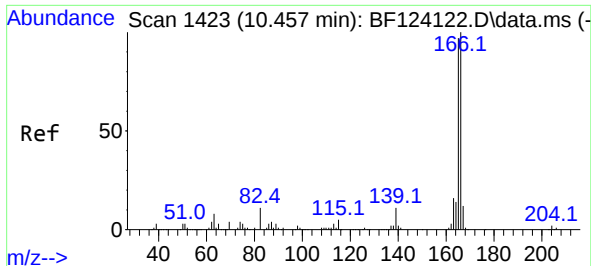
Tgt Ion:154 Resp: 9590  
Ion Ratio Lower Upper  
154 100  
153 102.3 88.1 132.1  
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Instrument :  
BNA\_F  
ClientSampled :  
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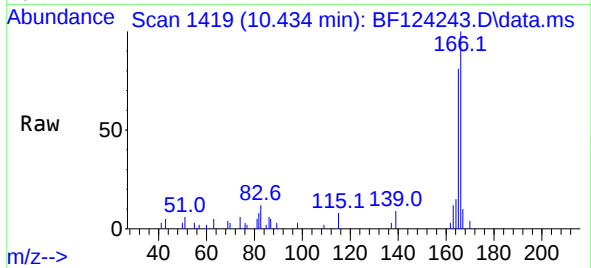
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#58  
Fluorene  
Concen: 2.195 ng  
RT: 10.434 min Scan# 1419  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

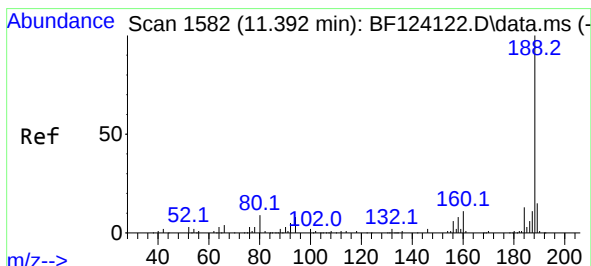
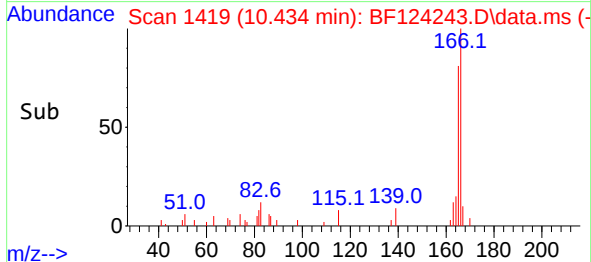
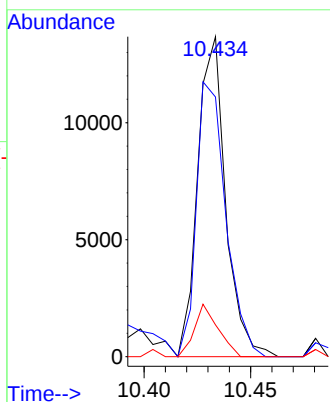
Instrument :  
BNA\_F  
ClientSampled :  
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Tgt Ion:166 Resp: 12458  
Ion Ratio Lower Upper  
166 100  
165 81.1 73.5 110.3  
167 9.9 10.7 16.1#

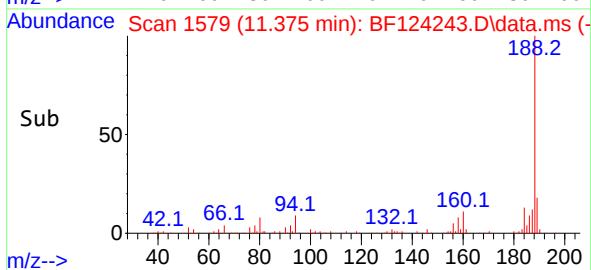
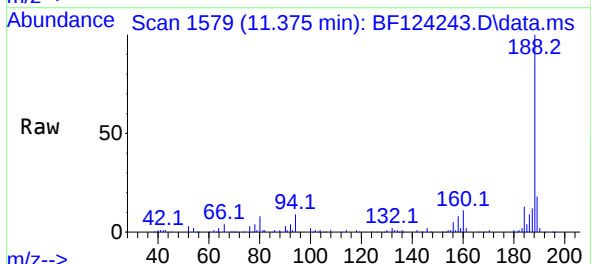
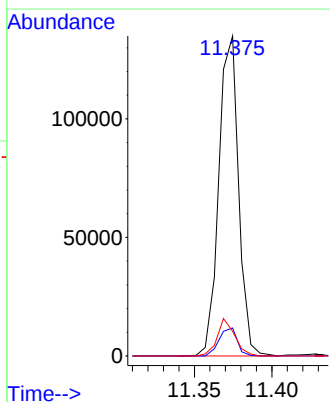
Manual Integrations  
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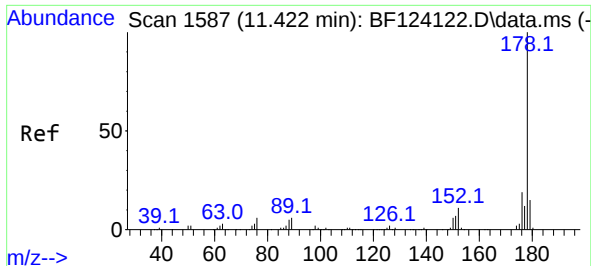
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.375 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

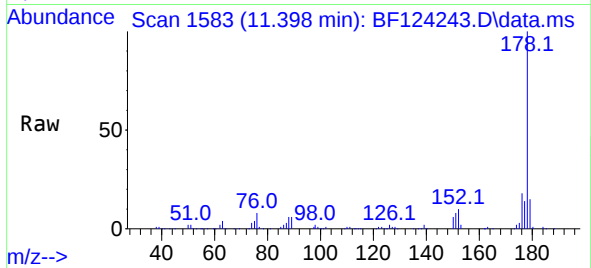
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Ion Ratio Lower Upper  
188 100  
94 8.7 6.9 10.3  
80 7.7 8.2 12.2#





#71  
Phenanthrene  
Concen: 21.032 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

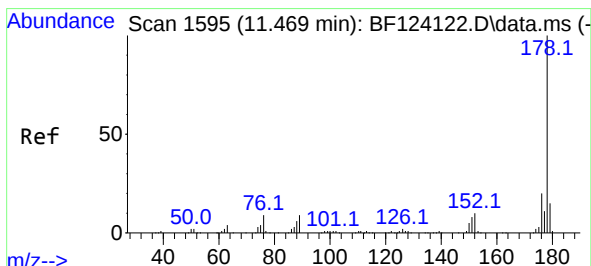
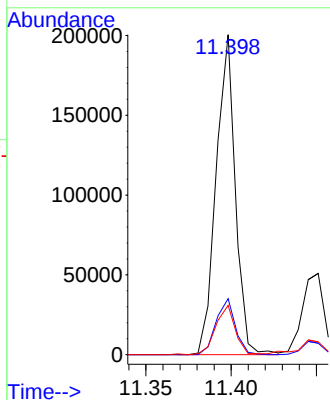
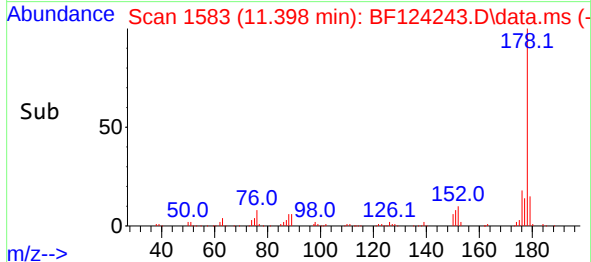
Instrument :  
BNA\_F  
ClientSampled :  
329



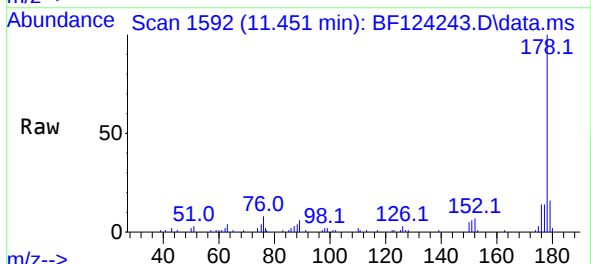
Tgt Ion:178 Resp: 157432  
Ion Ratio Lower Upper  
178 100  
176 17.5 15.6 23.4  
179 15.4 12.5 18.7

Manual Integrations  
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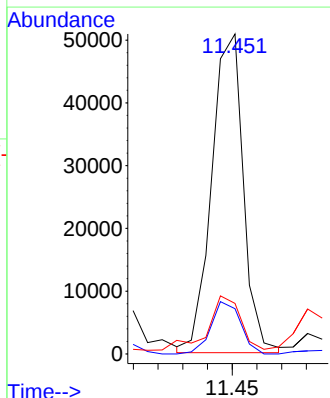
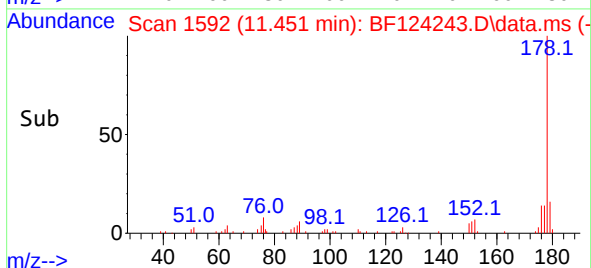
mohammad  
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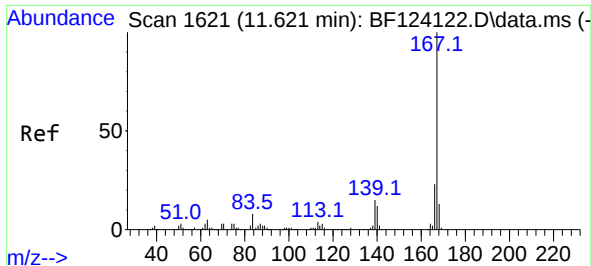


#72  
Anthracene  
Concen: 6.009 ng m  
RT: 11.451 min Scan# 1592  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



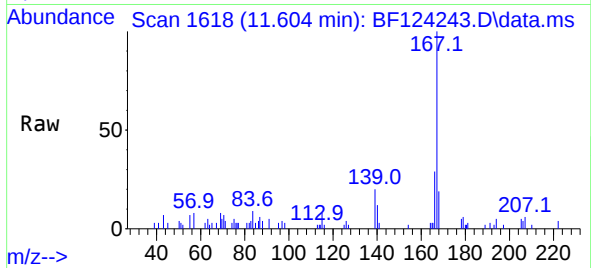
Tgt Ion:178 Resp: 45296  
Ion Ratio Lower Upper  
178 100  
176 14.2 15.4 23.0#  
179 15.8 12.6 18.8





#73  
Carbazole  
Concen: 2.072 ng  
RT: 11.604 min Scan# 1618  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

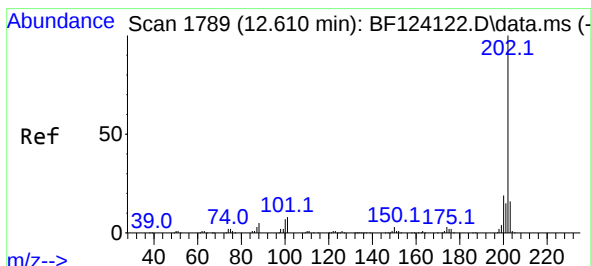
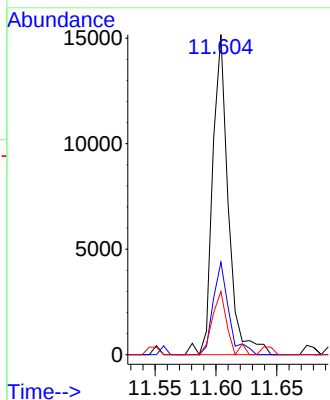
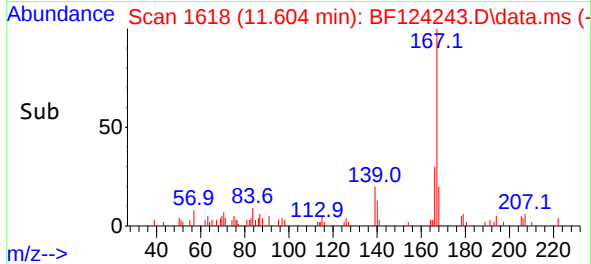
Instrument :  
BNA\_F  
ClientSampled :  
329



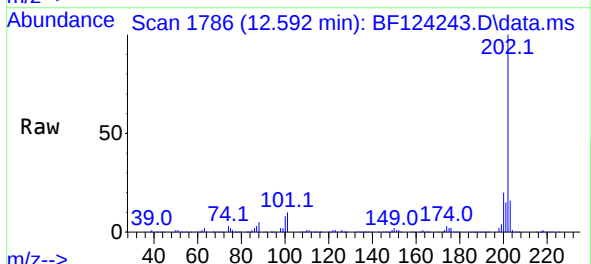
Tgt Ion:167 Resp: 13612  
Ion Ratio Lower Upper  
167 100  
166 28.9 17.0 25.6#  
139 19.8 10.4 15.6#

Manual Integrations  
APPROVED

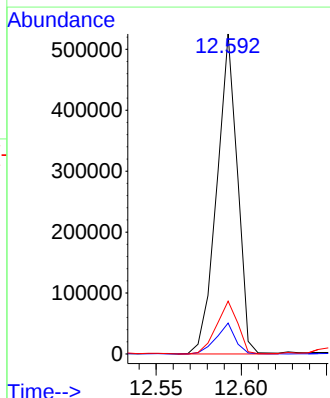
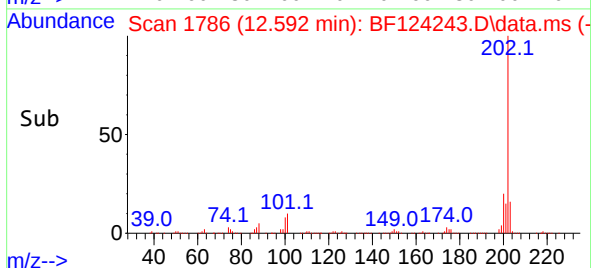
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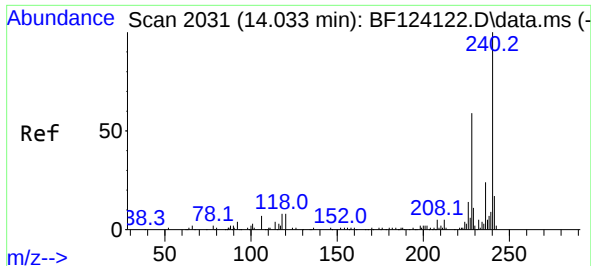


#75  
Fluoranthene  
Concen: 56.109 ng  
RT: 12.592 min Scan# 1786  
Delta R.T. 0.000 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

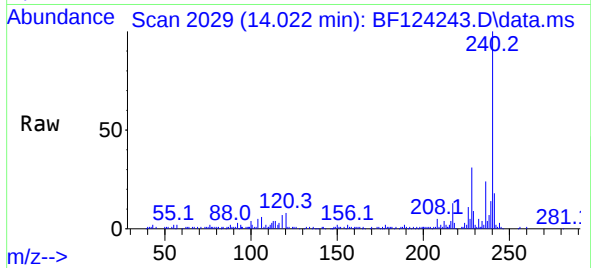


Tgt Ion:202 Resp: 440864  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 30.9  
203 16.5 0.0 37.5

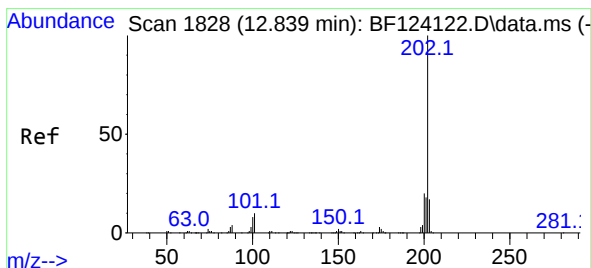
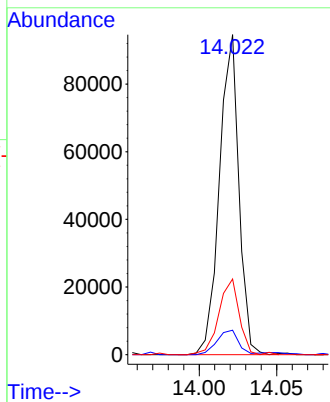
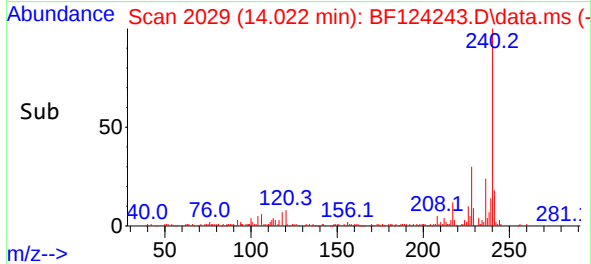




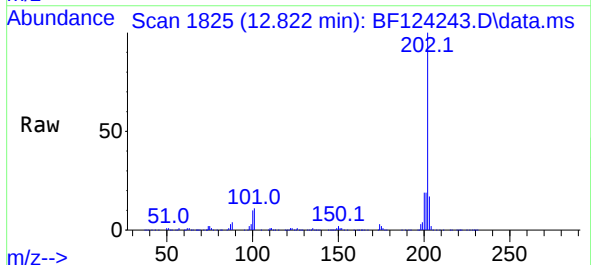
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.022 min Scan# 2029  
Delta R.T. 0.000 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



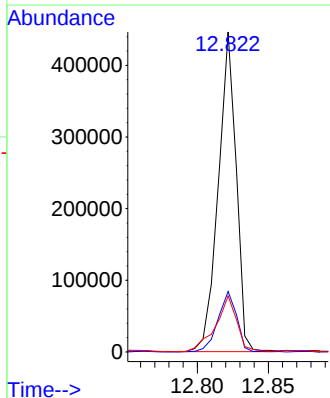
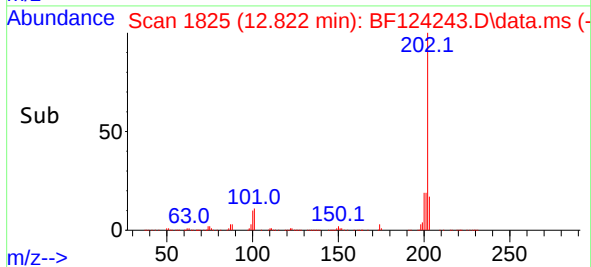
Tgt Ion:240 Resp: 82405  
Ion Ratio Lower Upper  
240 100  
120 7.6 7.2 10.8  
236 23.7 19.0 28.4



#78  
Pyrene  
Concen: 49.347 ng  
RT: 12.822 min Scan# 1825  
Delta R.T. 0.000 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



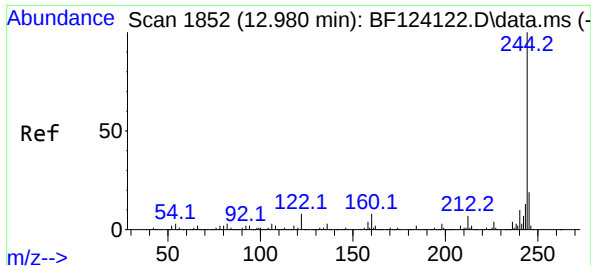
Tgt Ion:202 Resp: 390484  
Ion Ratio Lower Upper  
202 100  
200 18.9 16.1 24.1  
203 17.5 14.8 22.2



Instrument :  
BNA\_F  
ClientSampled :  
329

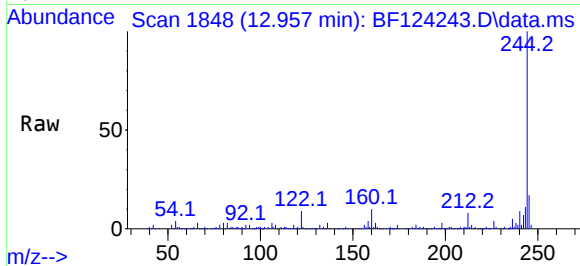
Manual Integrations  
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#79  
Terphenyl-d14  
Concen: 31.262 ng  
RT: 12.957 min Scan# 1848  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

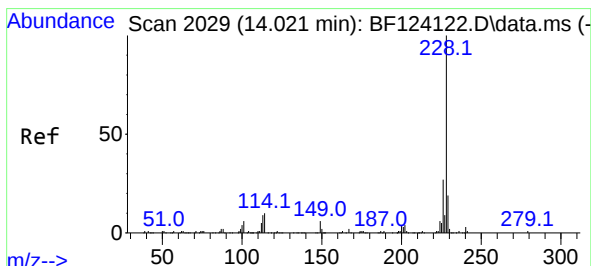
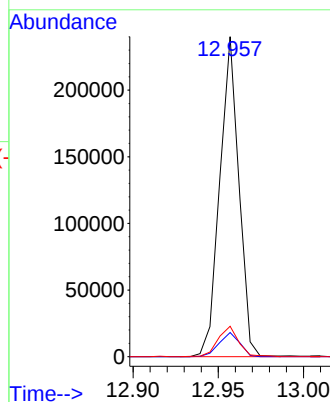
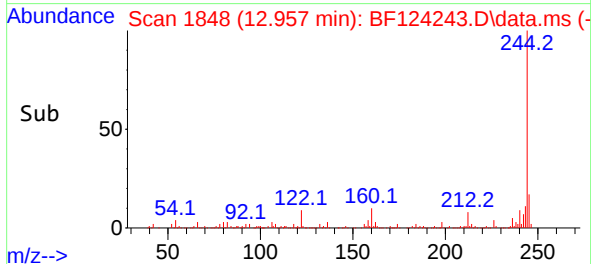
Instrument :  
BNA\_F  
ClientSampled :  
329



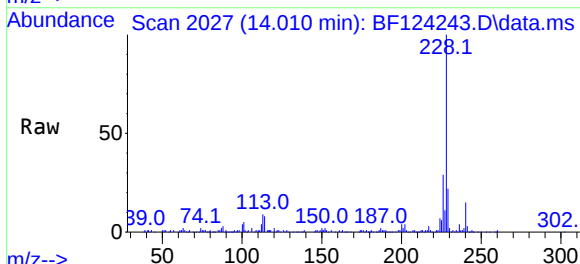
Tgt Ion:244 Resp: 187637  
Ion Ratio Lower Upper  
244 100  
212 7.5 5.7 8.5  
122 9.5 9.7 14.5#

Manual Integrations  
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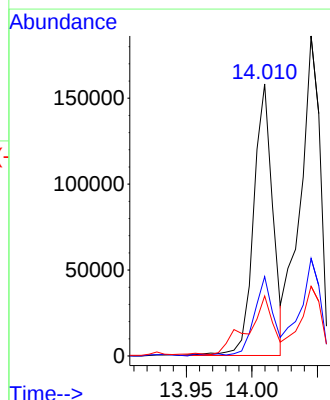
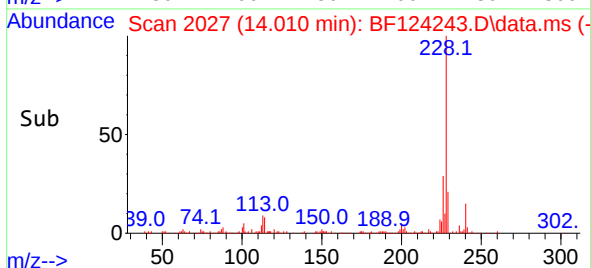
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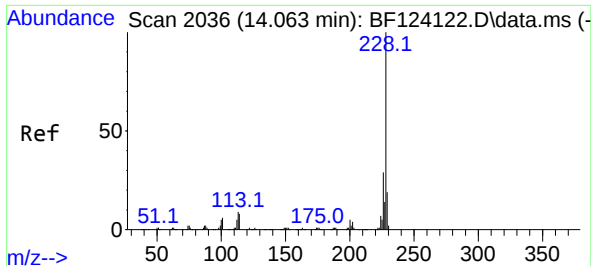


#81  
Benzo(a)anthracene  
Concen: 26.598 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. 0.000 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

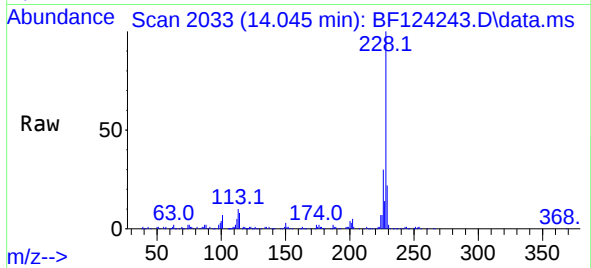


Tgt Ion:228 Resp: 159672  
Ion Ratio Lower Upper  
228 100  
226 29.2 22.4 33.6  
229 22.0 16.0 24.0

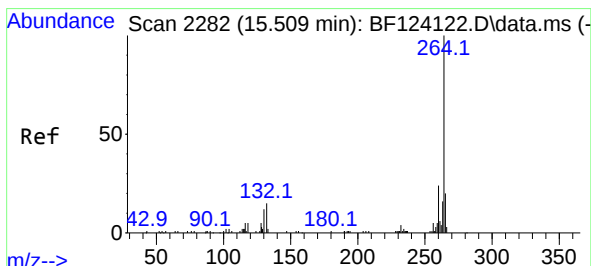
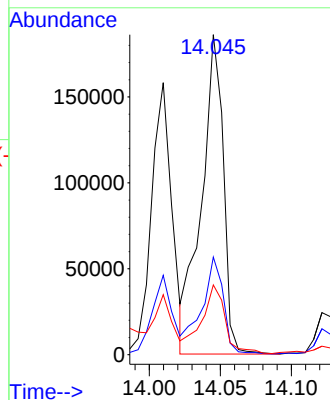
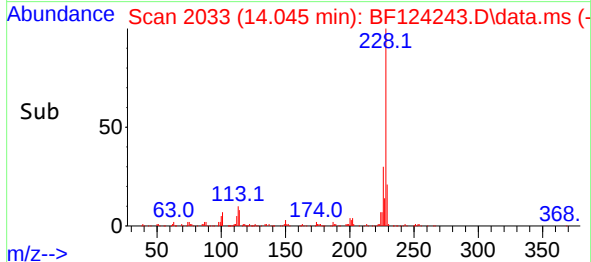




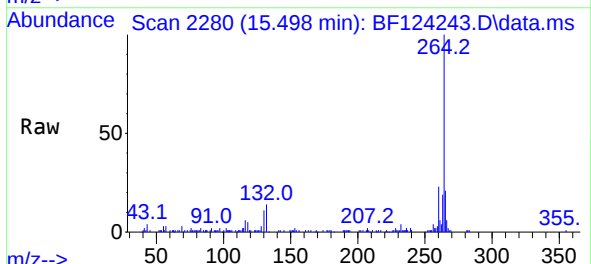
#83  
Chrysene  
Concen: 34.501 ng  
RT: 14.045 min Scan# 2033  
Delta R.T. 0.000 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



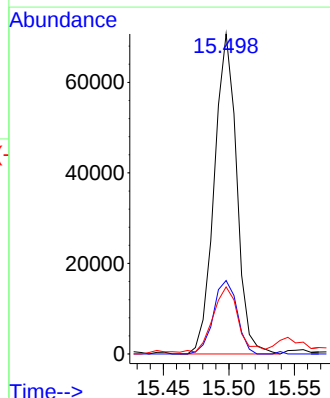
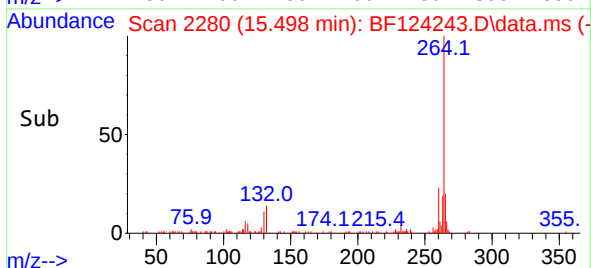
Tgt Ion:228 Resp: 199829  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.3 36.5  
229 21.8 16.2 24.2



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.498 min Scan# 2280  
Delta R.T. 0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



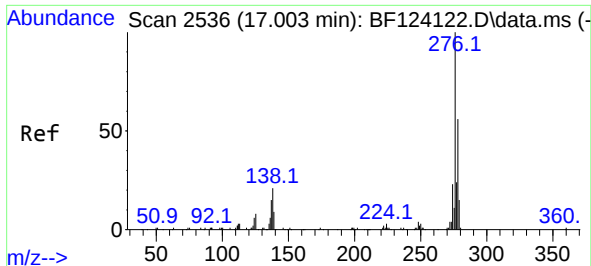
Tgt Ion:264 Resp: 83881  
Ion Ratio Lower Upper  
264 100  
260 23.0 18.7 28.1  
265 20.9 17.8 26.8



Instrument :  
BNA\_F  
ClientSampled :  
329

Manual Integrations  
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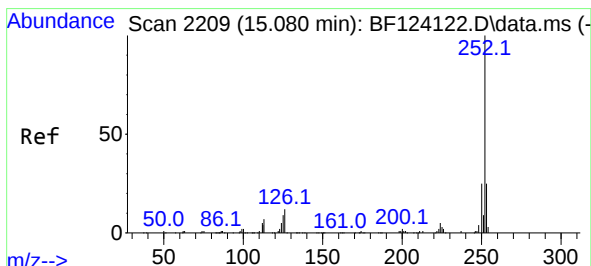
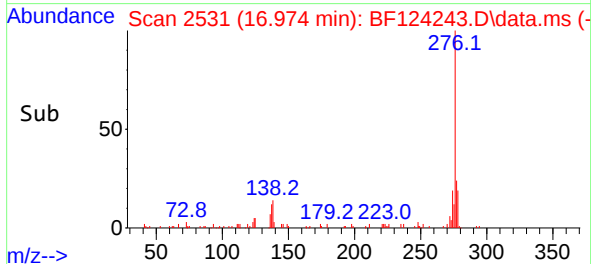
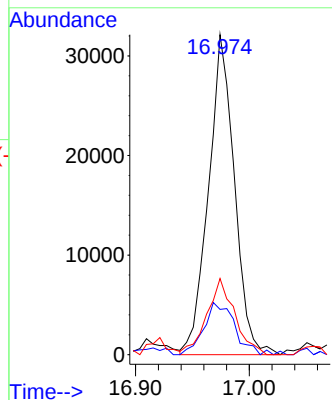
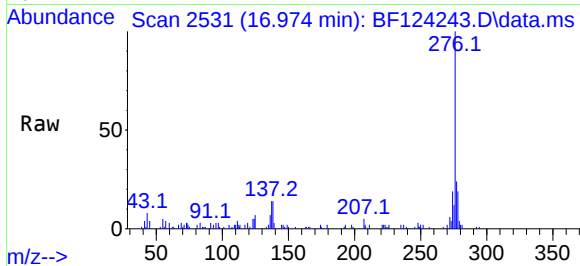
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 10.990 ng  
RT: 16.974 min Scan# 2531  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 51069 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.6  | 16.2  | 24.2  |
| 277       | 25.6  | 20.1  | 30.1  |

Instrument :  
BNA\_F  
ClientSampleId :  
329

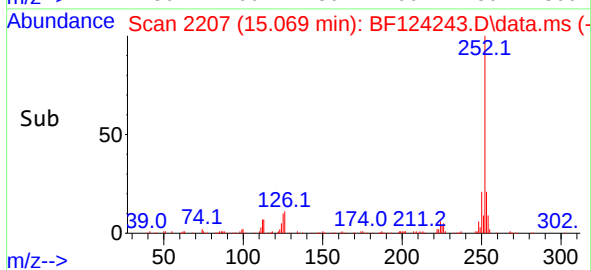
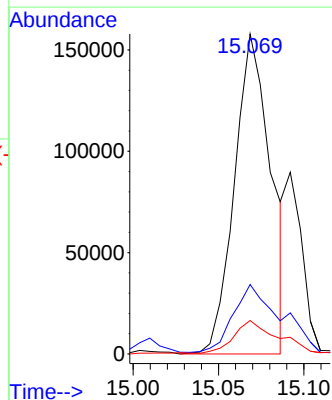
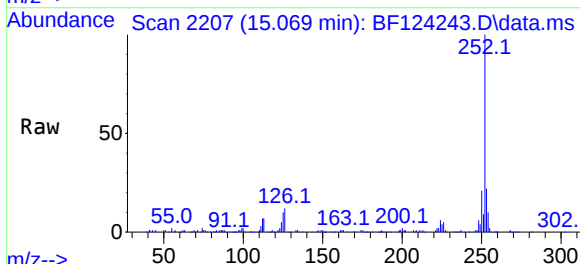
Manual Integrations  
APPROVED

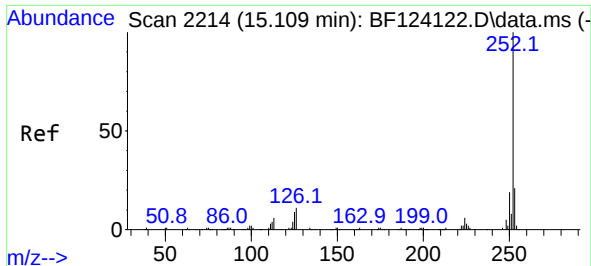
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6/11/2021 2:10:55 PM



#88  
Benzo(b)fluoranthene  
Concen: 36.003 ng m  
RT: 15.069 min Scan# 2207  
Delta R.T. 0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 234591 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.7  | 18.1  | 27.1   |
| 125       | 10.4  | 6.2   | 9.4#   |





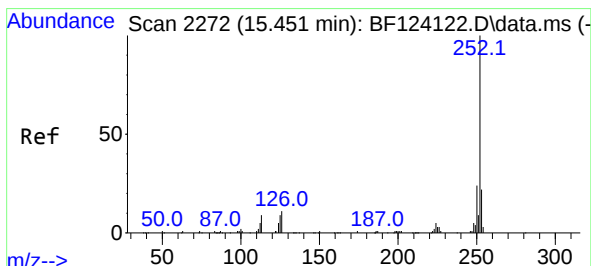
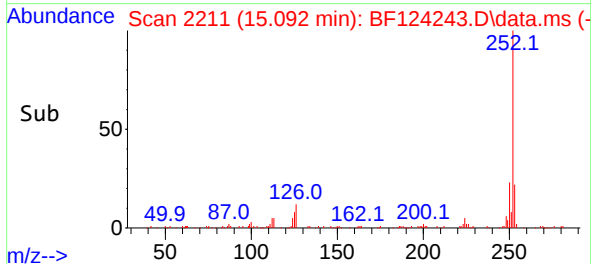
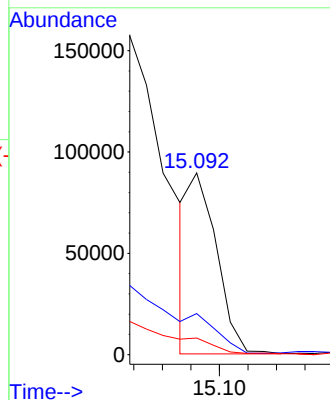
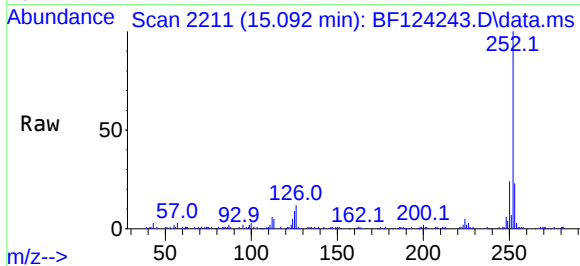
#89  
Benzo(k)fluoranthene  
Concen: 9.671 ng m  
RT: 15.092 min Scan# 2211  
Delta R.T. 0.000 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

Tgt Ion:252 Resp: 59653  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.9 26.9  
125 9.2 7.0 10.6

Instrument :  
BNA\_F  
ClientSampled :  
329

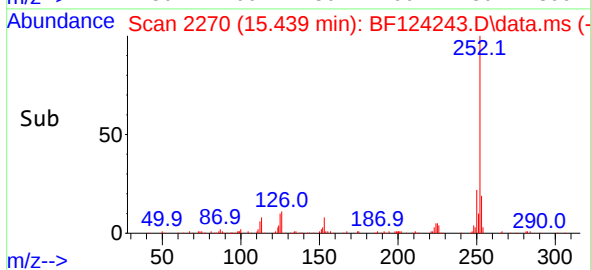
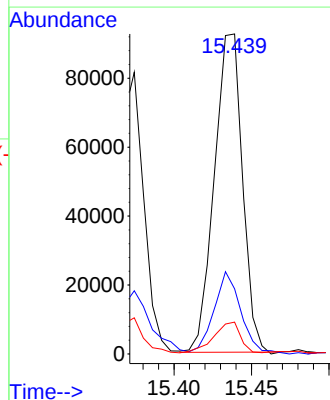
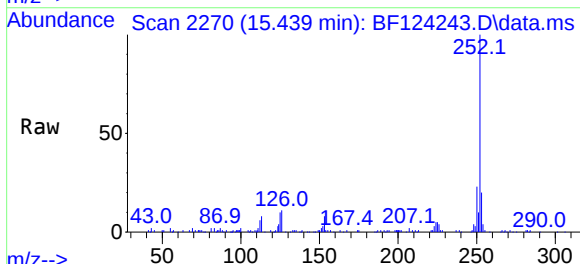
Manual Integrations  
APPROVED

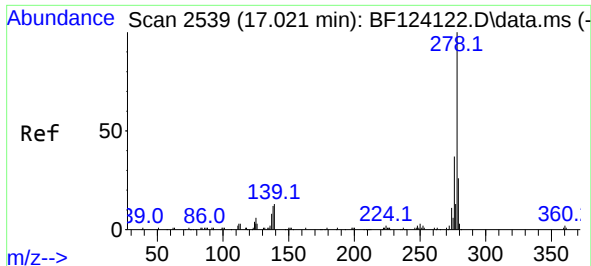
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6/11/2021 2:10:55 PM



#90  
Benzo(a)pyrene  
Concen: 20.595 ng  
RT: 15.439 min Scan# 2270  
Delta R.T. 0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

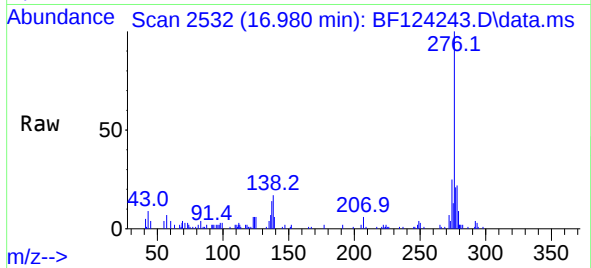
Tgt Ion:252 Resp: 116559  
Ion Ratio Lower Upper  
252 100  
253 20.4 18.4 27.6  
125 9.9 8.0 12.0





#91  
Dibenzo(a,h)anthracene  
Concen: 6.428 ng  
RT: 16.980 min Scan# 2532  
Delta R.T. -0.011 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55

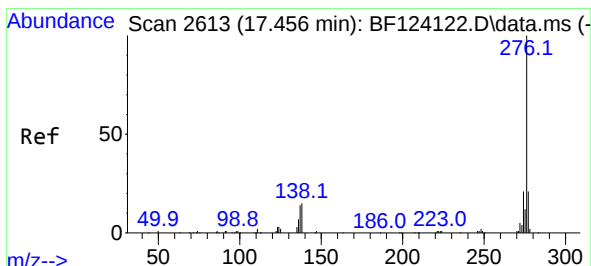
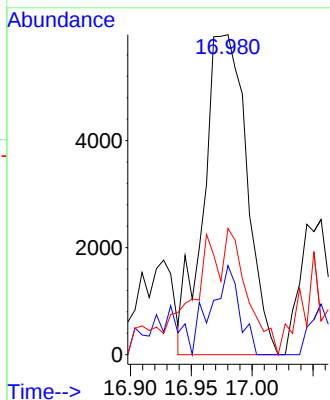
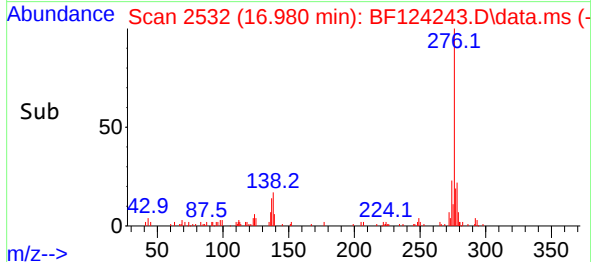
Instrument :  
BNA\_F  
ClientSampled :  
329



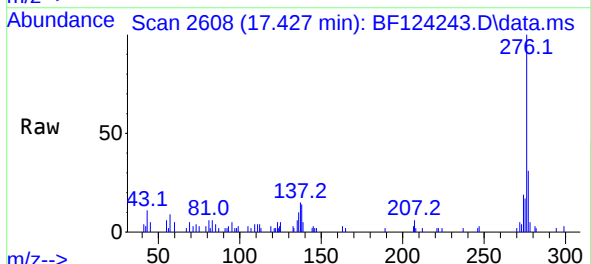
Tgt Ion:278 Resp: 14703  
Ion Ratio Lower Upper  
278 100  
139 27.9 10.2 15.2#  
279 39.4 19.4 29.0#

Manual Integrations  
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#92  
Benzo(g,h,i)perylene  
Concen: 10.198 ng  
RT: 17.427 min Scan# 2608  
Delta R.T. -0.006 min  
Lab File: BF124243.D  
Acq: 10 Jun 2021 20:55



Tgt Ion:276 Resp: 40815  
Ion Ratio Lower Upper  
276 100  
277 30.6 18.2 27.2#  
138 14.5 13.8 20.6

