

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100721\  
 Data File : BN016838.D  
 Acq On : 08 Oct 2021 11:08  
 Operator : CG/JU  
 Sample : M4045-08  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S-842-R-SO-1-1.5-100121

Manual Integrations  
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Quant Time: Oct 08 12:20:16 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN100721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 08 01:39:08 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.615  | 152  | 19661    | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.381 | 136  | 90097    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.243 | 164  | 48565    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.993 | 188  | 94634    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.217 | 240  | 97490    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.454 | 264  | 107744   | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.245  | 112  | 17048    | 0.347 | ng    | 0.02     |
| 5) Phenol-d6                  | 6.803  | 99   | 17944    | 0.321 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.759  | 82   | 19382    | 0.307 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.976 | 152  | 47130    | 0.351 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.753 | 330  | 7273     | 0.289 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.873 | 172  | 59849    | 0.305 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.043 | 212  | 98943    | 0.376 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.654 | 244  | 77307    | 0.364 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 9) Naphthalene                | 10.432 | 128  | 9680     | 0.039 | ng    | 97       |
| 12) 2-Methylnaphthalene       | 12.052 | 142  | 7304     | 0.047 | ng    | 99       |
| 17) Acenaphthene              | 14.307 | 154  | 3220     | 0.023 | ng    | 94       |
| 25) Phenanthrene              | 17.042 | 178  | 69213    | 0.246 | ng    | 100      |
| 26) Anthracene                | 17.127 | 178  | 10079    | 0.040 | ng    | # 93     |
| 28) Fluoranthene              | 19.073 | 202  | 149768   | 0.474 | ng    | 100      |
| 30) Pyrene                    | 19.435 | 202  | 126483   | 0.422 | ng    | # 96     |
| 32) Benzo(a)anthracene        | 21.195 | 228  | 64053    | 0.212 | ng    | 98       |
| 33) Chrysene                  | 21.249 | 228  | 66317    | 0.216 | ng    | 96       |
| 34) Bis(2-ethylhexyl)phtha... | 21.142 | 149  | 42793    | 0.279 | ng    | 92       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.713 | 276  | 44549    | 0.109 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.783 | 252  | 88808    | 0.260 | ng    | # 95     |
| 38) Benzo(k)fluoranthene      | 22.824 | 252  | 34817m   | 0.105 | ng    |          |
| 39) Benzo(a)pyrene            | 23.354 | 252  | 54563    | 0.175 | ng    | 94       |
| 41) Benzo(g,h,i)perylene      | 26.404 | 276  | 46452    | 0.131 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

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

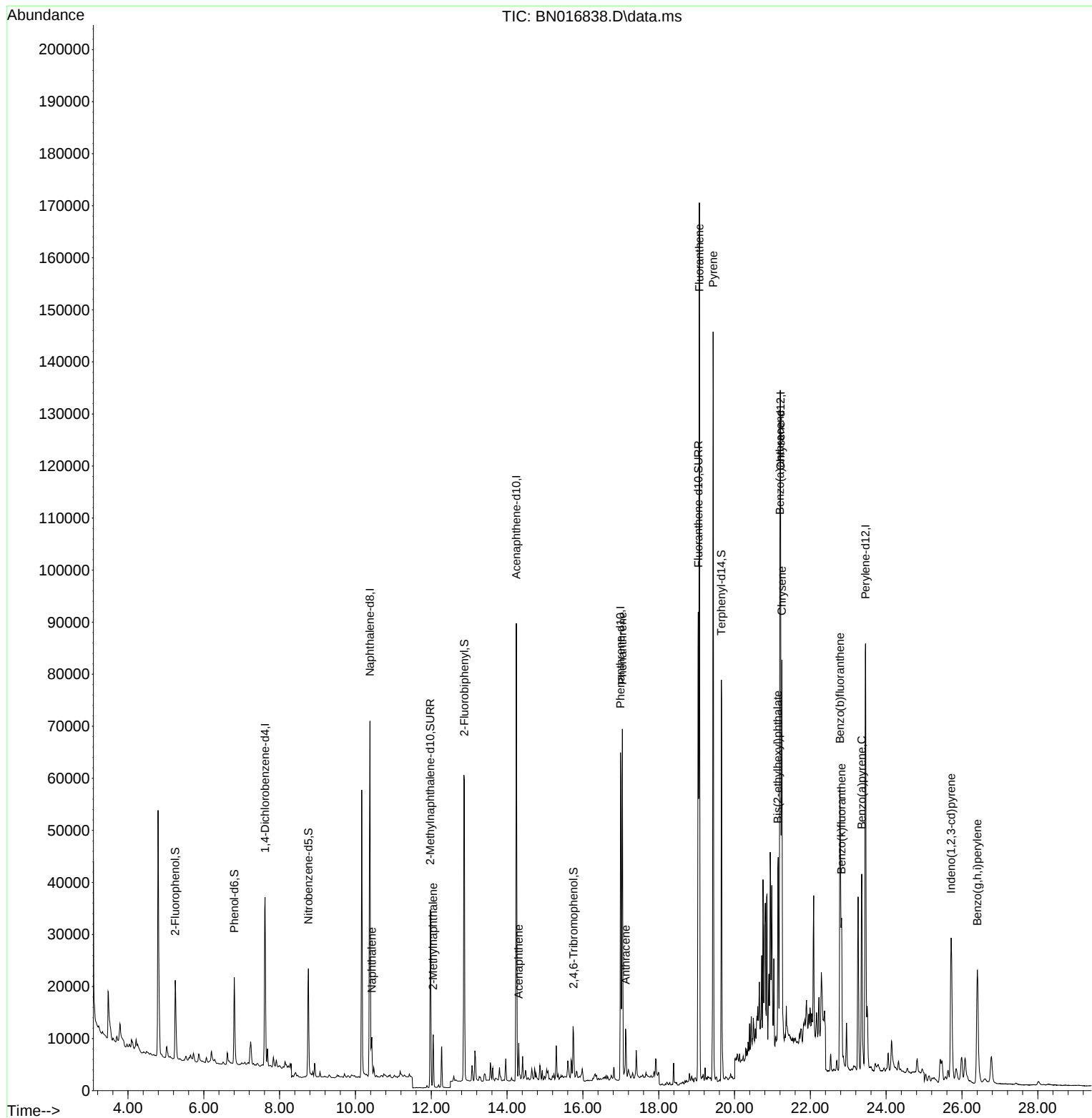
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100721\  
Data File : BN016838.D  
Acq On : 08 Oct 2021 11:08  
Operator : CG/JU  
Sample : M4045-08  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121

Manual Integrations  
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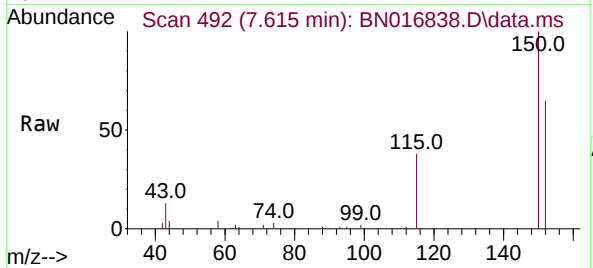
Quant Time: Oct 08 12:20:16 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN100721.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 08 01:39:08 2021  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.615 min Scan# 492  
Delta R.T. 0.001 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

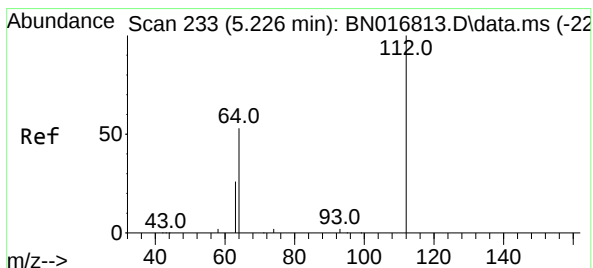
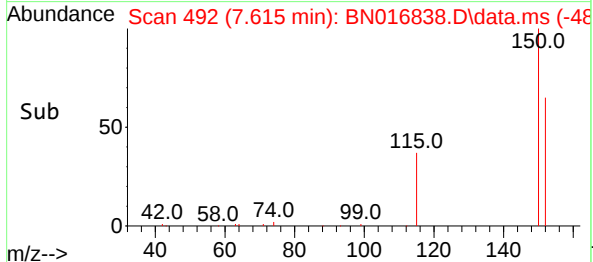
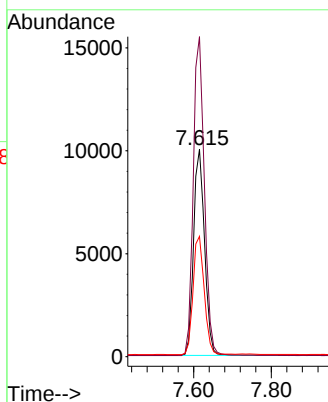
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121



Tgt Ion:152 Resp: 19661  
Ion Ratio Lower Upper  
152 100  
150 154.3 123.3 184.9  
115 58.0 47.0 70.6

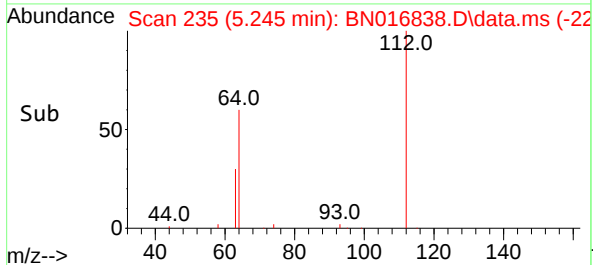
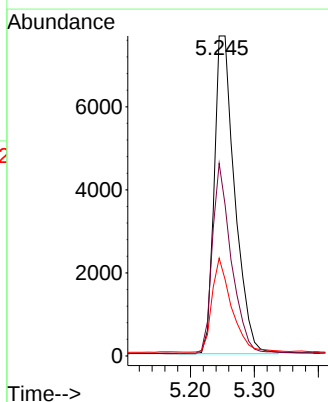
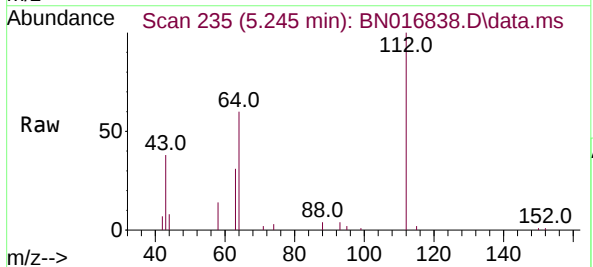
Manual Integrations  
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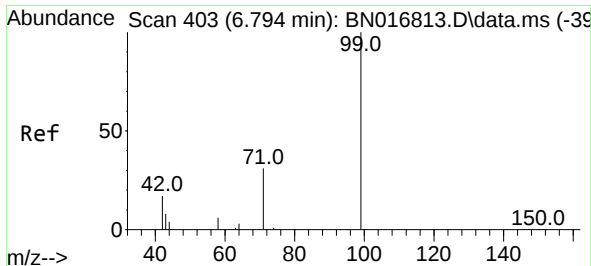
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#4  
2-Fluorophenol  
Concen: 0.347 ng  
RT: 5.245 min Scan# 235  
Delta R.T. 0.019 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

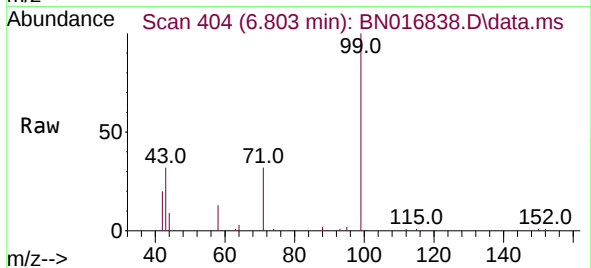
Tgt Ion:112 Resp: 17048  
Ion Ratio Lower Upper  
112 100  
64 55.0 42.9 64.3  
63 28.2 21.5 32.3





#5  
Phenol-d6  
Concen: 0.321 ng  
RT: 6.803 min Scan# 404  
Delta R.T. 0.009 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

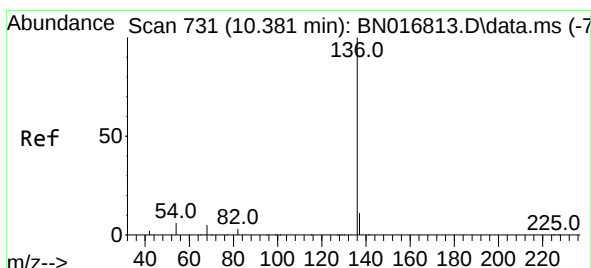
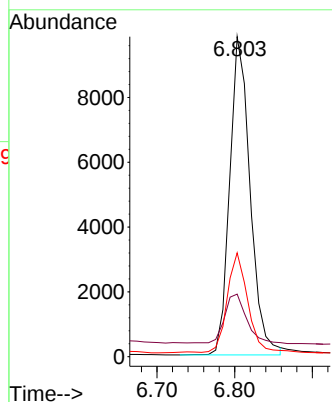
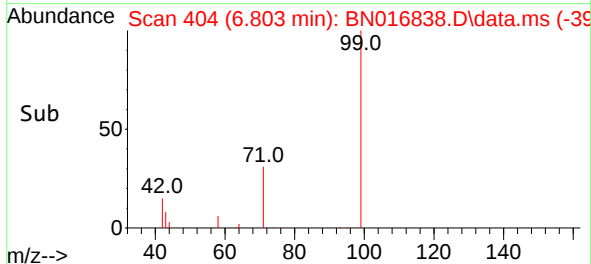
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121



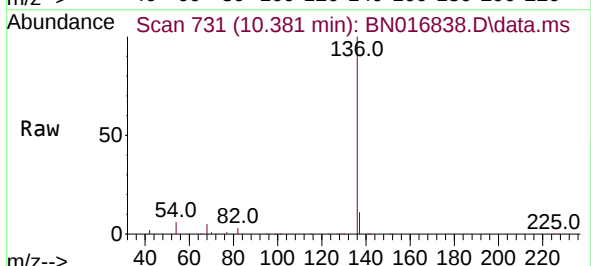
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Ion Ratio Lower Upper  
99 100  
42 15.9 13.4 20.2  
71 31.7 24.0 36.0

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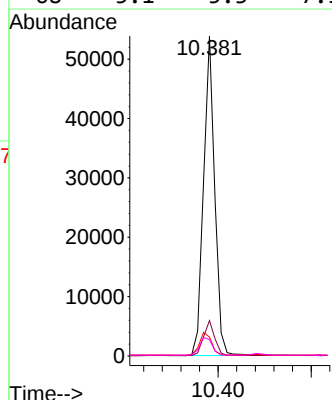
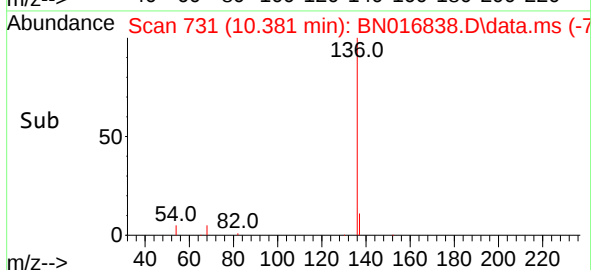
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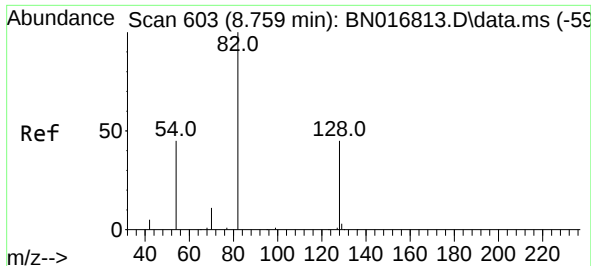


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.381 min Scan# 731  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



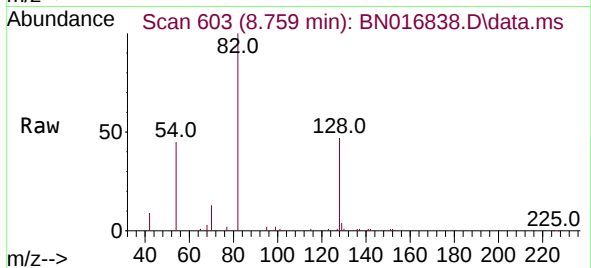
Tgt Ion: 136 Resp: 90097  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 5.9 6.5 9.7#  
68 5.1 5.3 7.9#





#8  
Nitrobenzene-d5  
Concen: 0.307 ng  
RT: 8.759 min Scan# 603  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

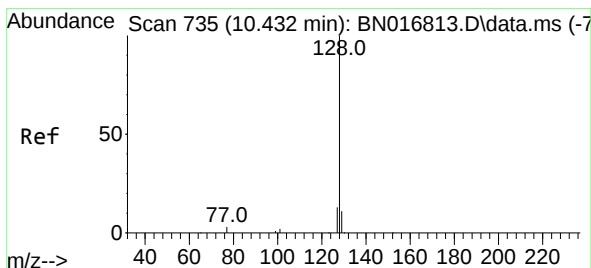
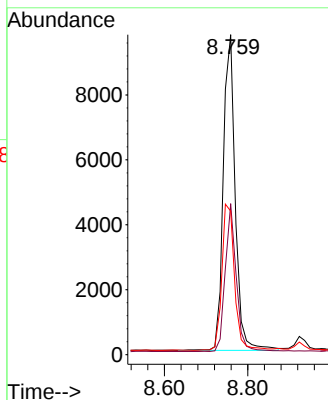
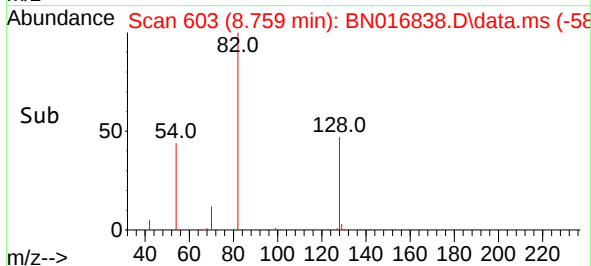
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121



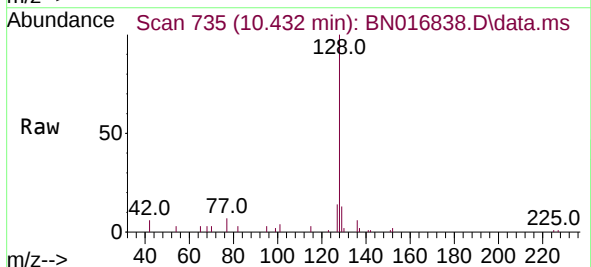
| Tgt Ion: | 82    | Resp: | 19382 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.2  | 33.8  | 50.6  |
| 54       | 44.9  | 38.5  | 57.7  |

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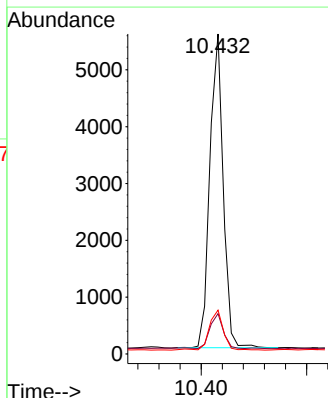
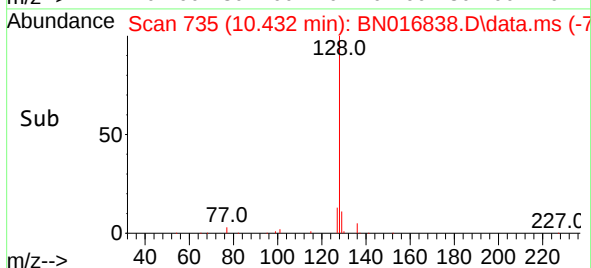
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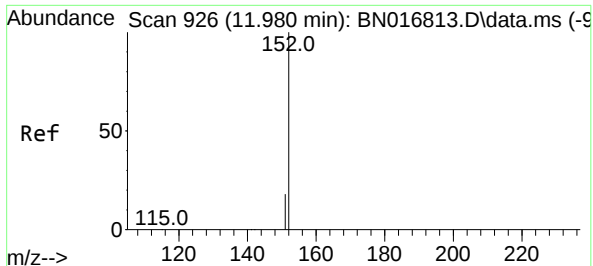


#9  
Naphthalene  
Concen: 0.039 ng  
RT: 10.432 min Scan# 735  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



| Tgt Ion: | 128   | Resp: | 9680  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.6  | 8.7   | 13.1  |
| 127      | 13.7  | 10.3  | 15.5  |





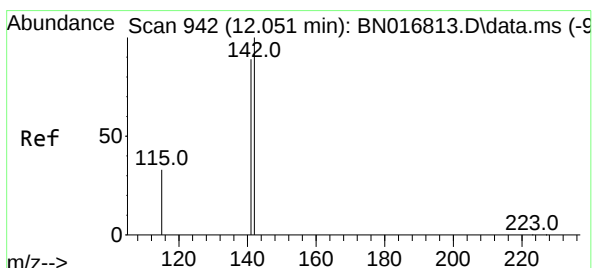
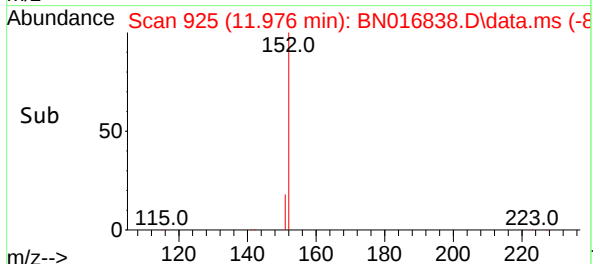
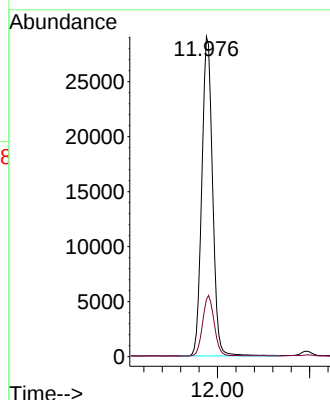
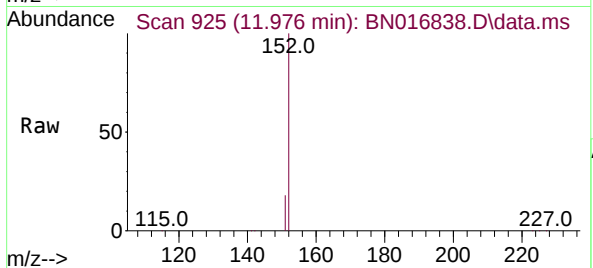
#11  
2-Methylnaphthalene-d10  
Concen: 0.351 ng  
RT: 11.976 min Scan# 925  
Delta R.T. -0.004 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

Tgt Ion:152 Resp: 47130  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.2 24.4

Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121

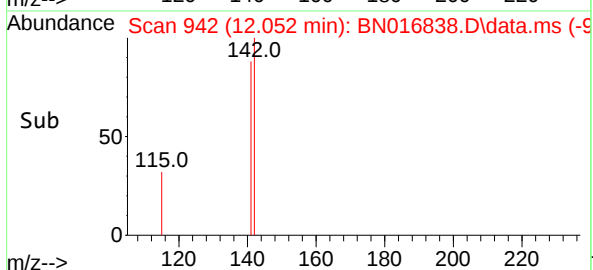
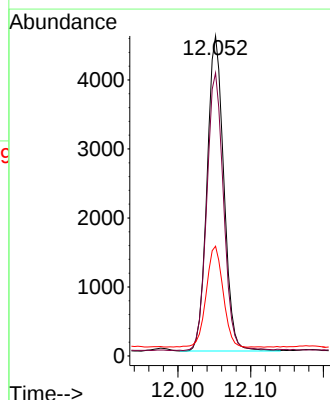
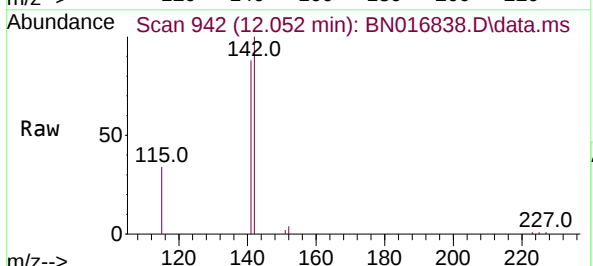
Manual Integrations  
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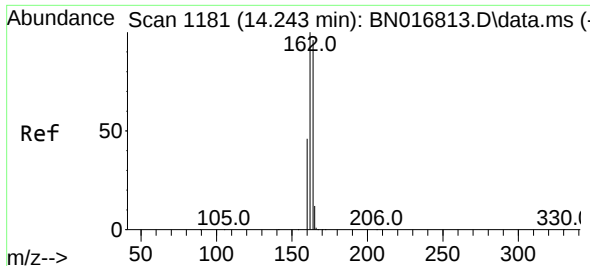
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#12  
2-Methylnaphthalene  
Concen: 0.047 ng  
RT: 12.052 min Scan# 942  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

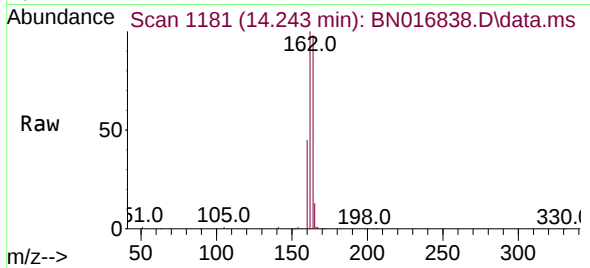
Tgt Ion:142 Resp: 7304  
Ion Ratio Lower Upper  
142 100  
141 88.5 70.6 106.0  
115 34.3 26.1 39.1





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.243 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

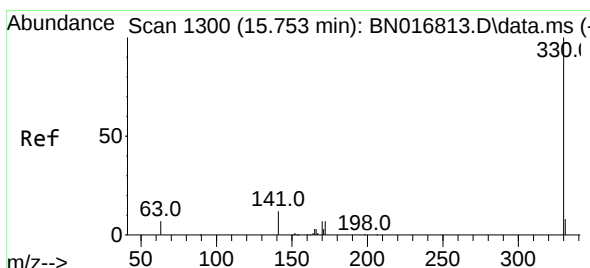
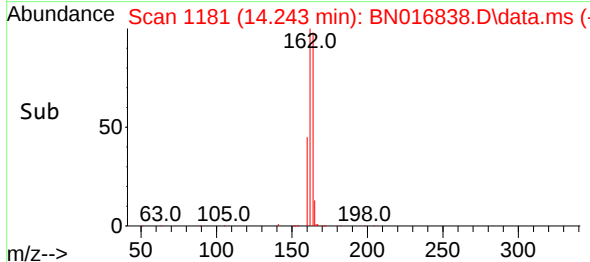
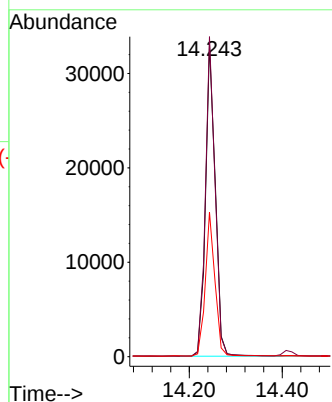
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121



Tgt Ion:164 Resp: 48565  
Ion Ratio Lower Upper  
164 100  
162 102.4 82.6 124.0  
160 46.3 38.2 57.2

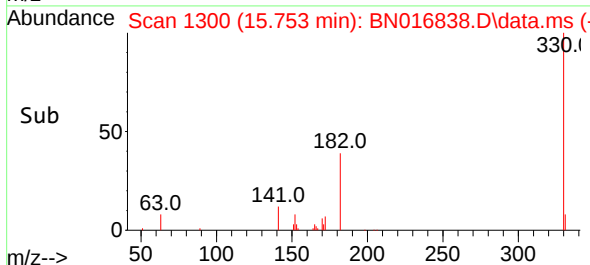
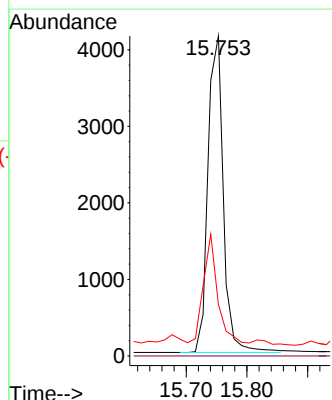
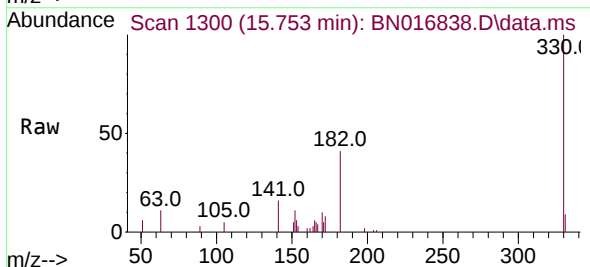
Manual Integrations  
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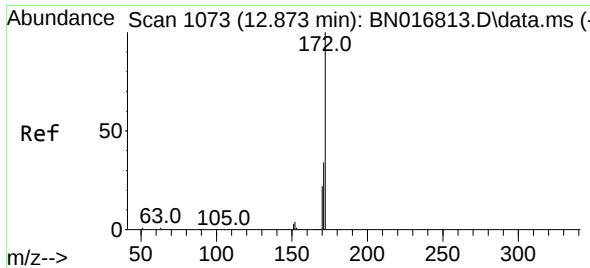
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10/11/2021 2:09:57 PM



#14  
2,4,6-Tribromophenol  
Concen: 0.289 ng  
RT: 15.753 min Scan# 1300  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

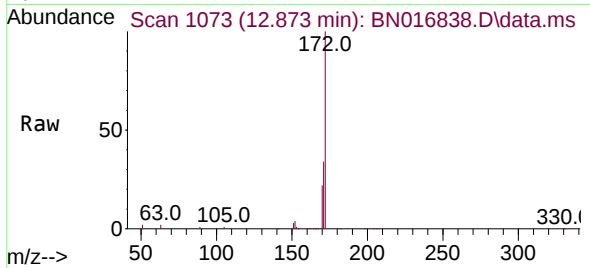
Tgt Ion:330 Resp: 7273  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 31.5 24.2 36.2





#15  
2-Fluorobiphenyl  
Concen: 0.305 ng  
RT: 12.873 min Scan# 1073  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

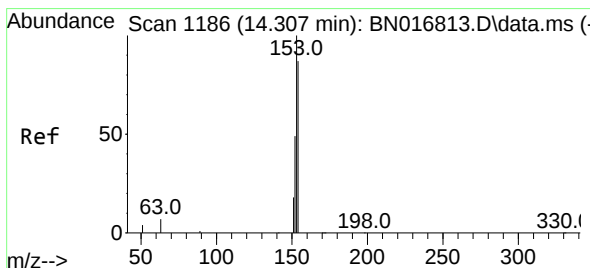
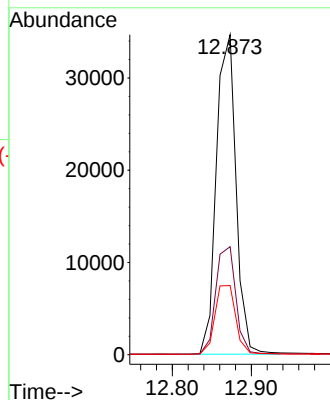
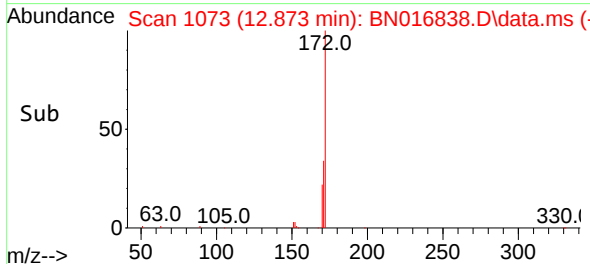
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121



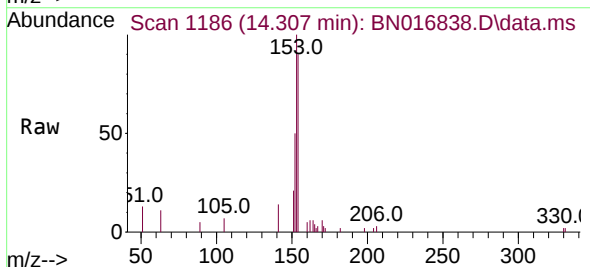
Tgt Ion:172 Resp: 59849  
Ion Ratio Lower Upper  
172 100  
171 33.8 26.9 40.3  
170 21.6 17.4 26.0

Manual Integrations  
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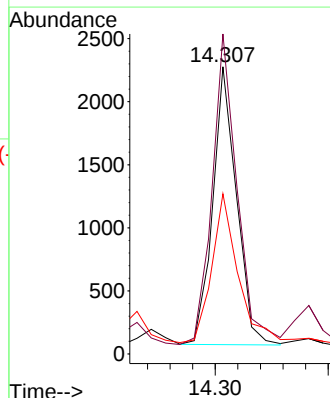
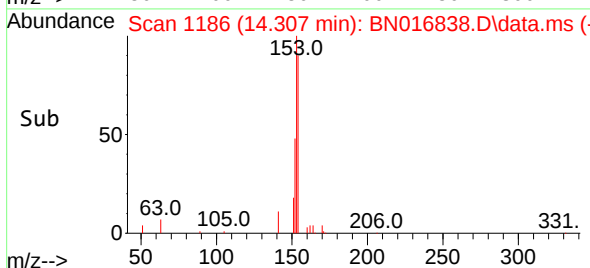
mohammad  
10/11/2021 2:09:57 PM

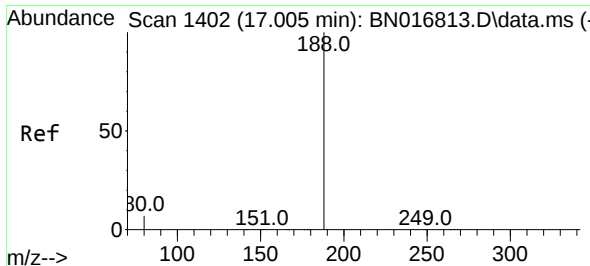


#17  
Acenaphthene  
Concen: 0.023 ng  
RT: 14.307 min Scan# 1186  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



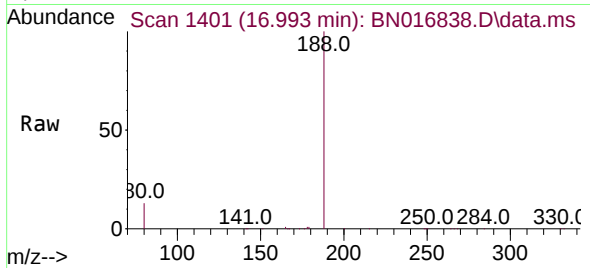
Tgt Ion:154 Resp: 3220  
Ion Ratio Lower Upper  
154 100  
153 117.3 90.1 135.1  
152 61.8 43.6 65.4





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.993 min Scan# 1401  
Delta R.T. -0.012 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

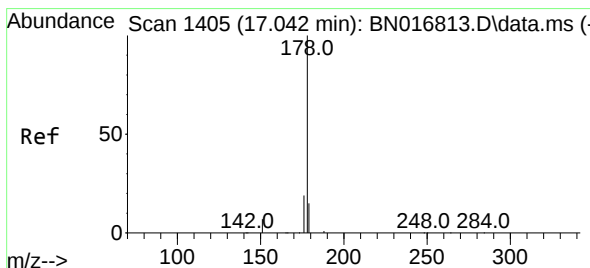
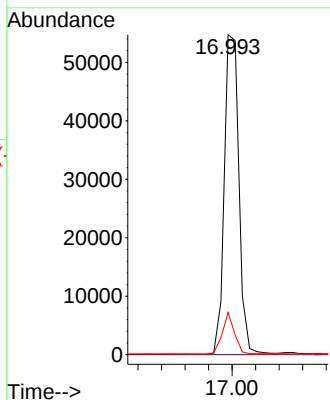
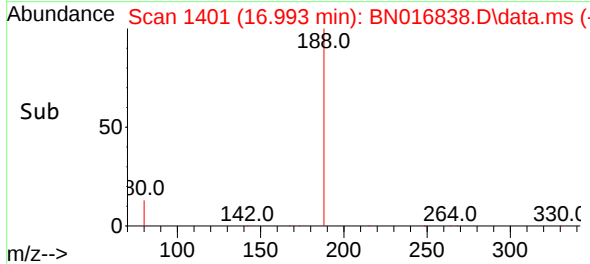
Instrument :  
BNA\_N  
ClientSampleId :  
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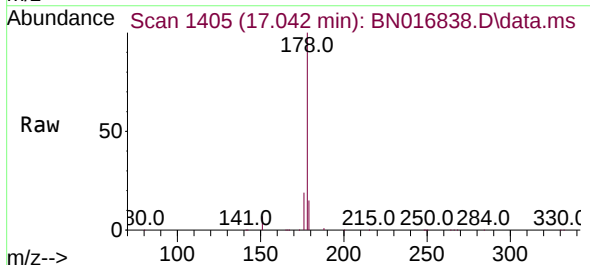
Tgt Ion:188 Resp: 94634  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.2 5.8 8.8#

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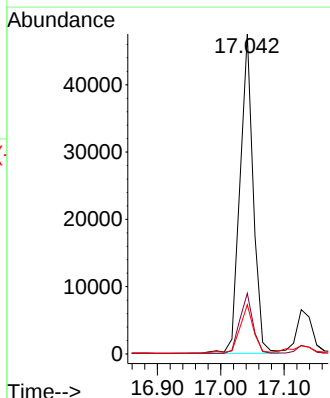
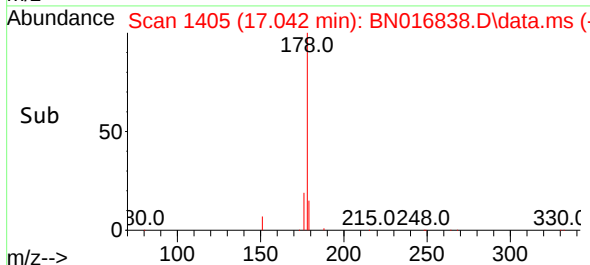
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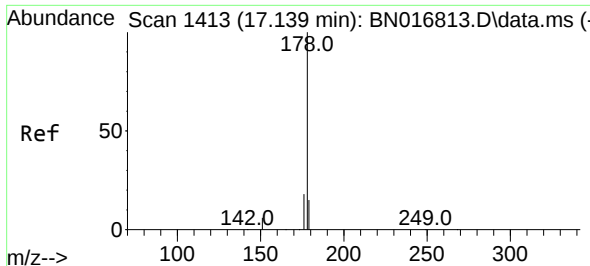


#25  
Phenanthrene  
Concen: 0.246 ng  
RT: 17.042 min Scan# 1405  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

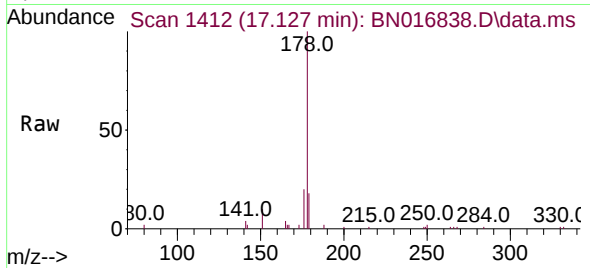


Tgt Ion:178 Resp: 69213  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.6  
179 15.9 12.4 18.6

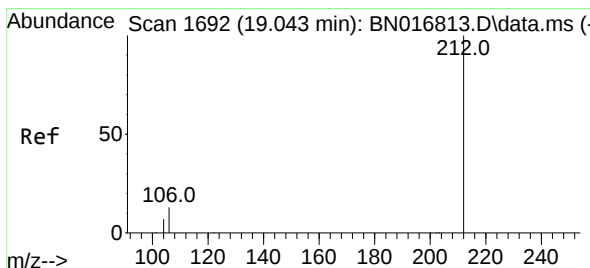
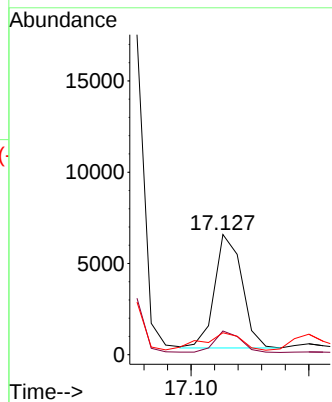
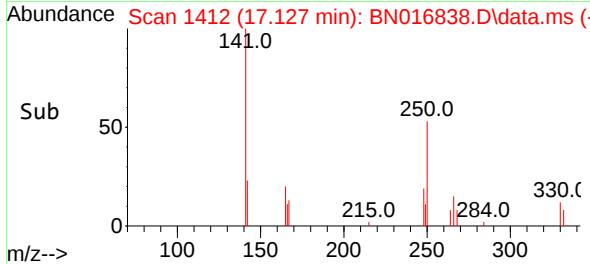




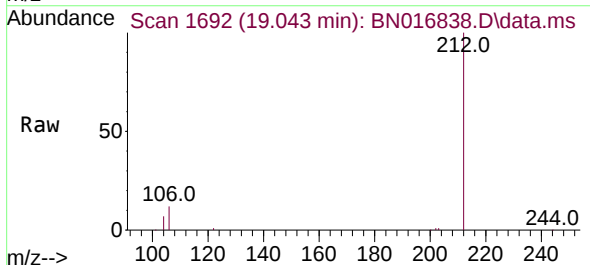
#26  
 Anthracene  
 Concen: 0.040 ng  
 RT: 17.127 min Scan# 1412  
 Delta R.T. -0.012 min  
 Lab File: BN016838.D  
 Acq: 08 Oct 2021 11:08



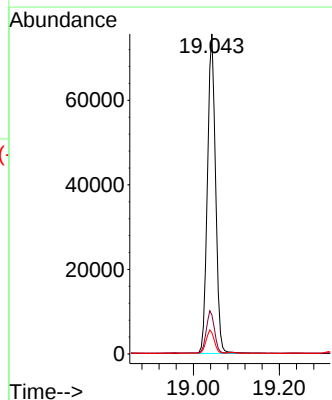
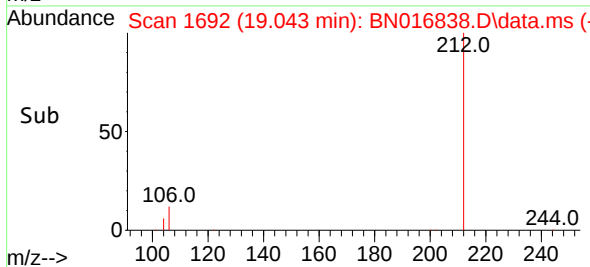
Tgt Ion:178 Resp: 10079  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 14.5 21.7  
 179 21.3 12.2 18.4#



#27  
 Fluoranthene-d10  
 Concen: 0.376 ng  
 RT: 19.043 min Scan# 1692  
 Delta R.T. 0.000 min  
 Lab File: BN016838.D  
 Acq: 08 Oct 2021 11:08



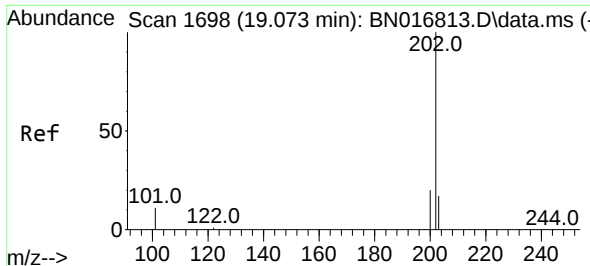
Tgt Ion:212 Resp: 98943  
 Ion Ratio Lower Upper  
 212 100  
 106 13.3 10.6 16.0  
 104 7.2 5.8 8.8



Instrument :  
 BNA\_N  
 ClientSampleId :  
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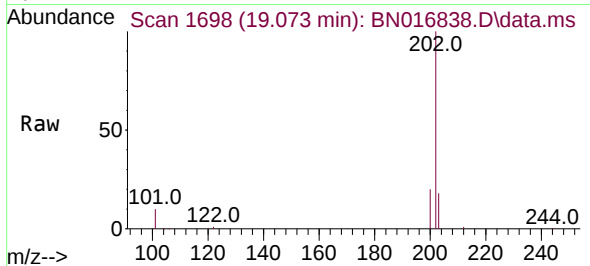
Manual Integrations  
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#28  
Fluoranthene  
Concen: 0.474 ng  
RT: 19.073 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

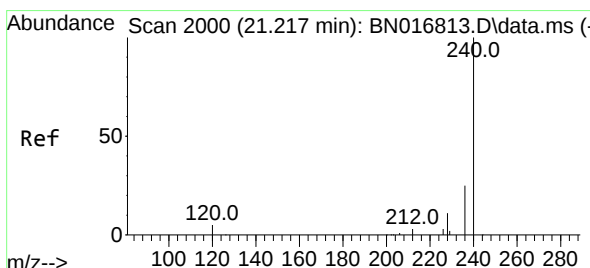
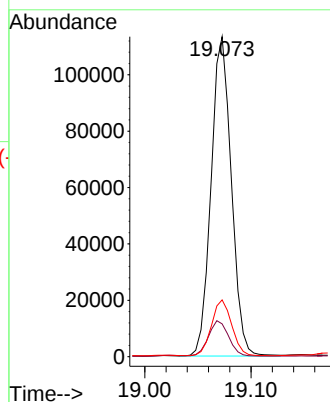
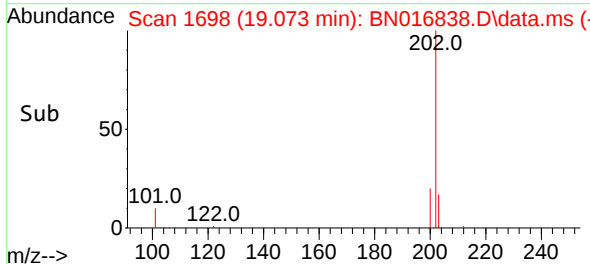
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121



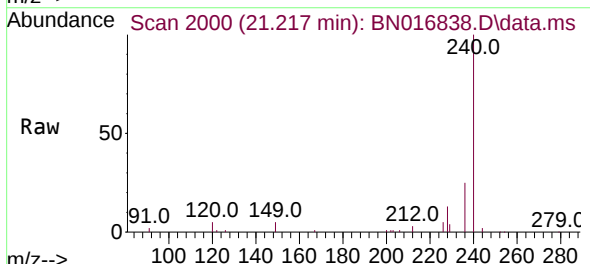
Tgt Ion:202 Resp: 149768  
Ion Ratio Lower Upper  
202 100  
101 11.0 8.9 13.3  
203 17.3 13.8 20.8

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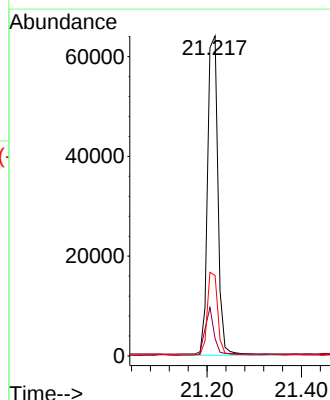
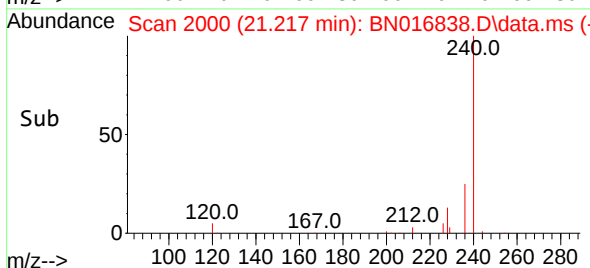
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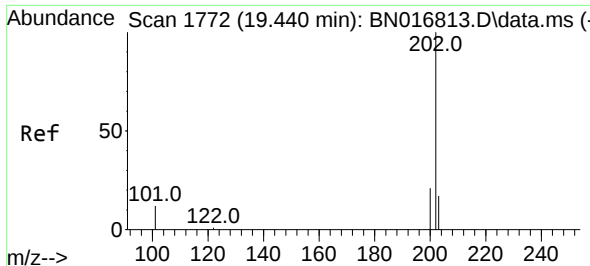


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.217 min Scan# 2000  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
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Tgt Ion:240 Resp: 97490  
Ion Ratio Lower Upper  
240 100  
120 5.4 6.6 10.0#  
236 25.1 20.7 31.1





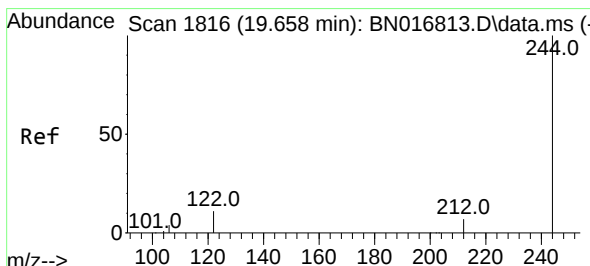
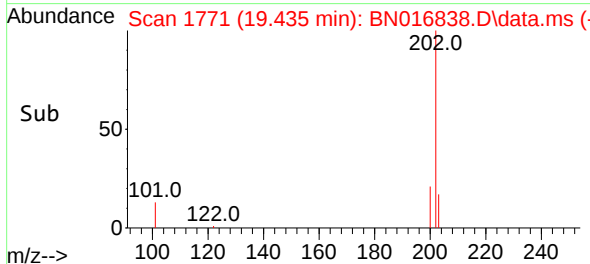
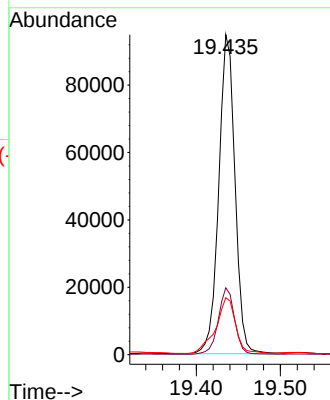
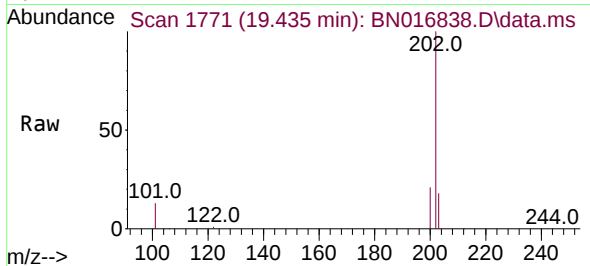
#30  
 Pyrene  
 Concen: 0.422 ng  
 RT: 19.435 min Scan# 1771  
 Delta R.T. -0.005 min  
 Lab File: BN016838.D  
 Acq: 08 Oct 2021 11:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 126483 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.7  | 16.5  | 24.7   |
| 203       | 21.3  | 13.9  | 20.9#  |

Instrument :  
 BNA\_N  
 ClientSampleId :  
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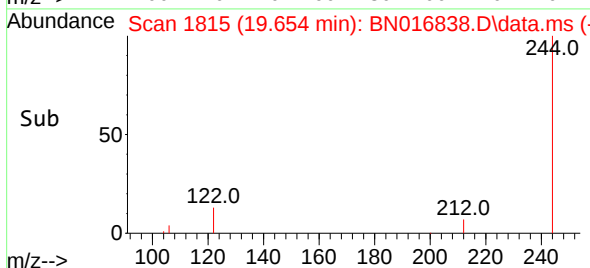
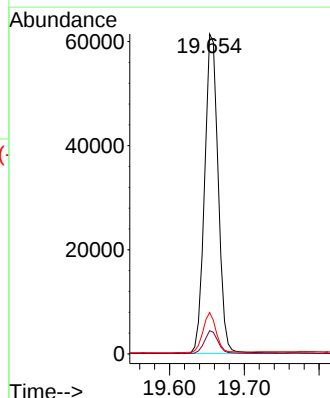
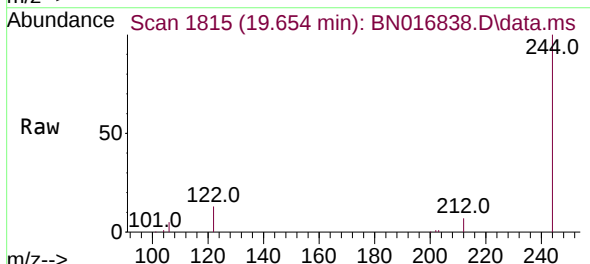
Manual Integrations  
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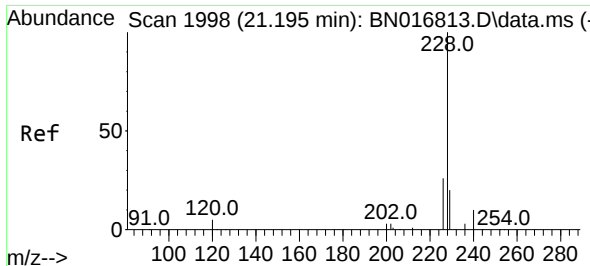
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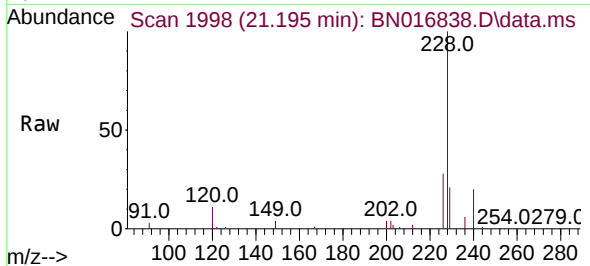
#31  
 Terphenyl-d14  
 Concen: 0.364 ng  
 RT: 19.654 min Scan# 1815  
 Delta R.T. -0.005 min  
 Lab File: BN016838.D  
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 77307 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 7.3   | 5.8   | 8.6   |
| 122       | 13.0  | 8.9   | 13.3  |

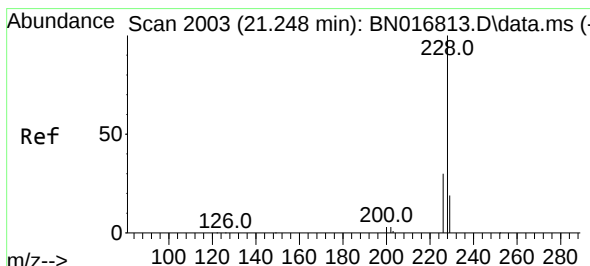
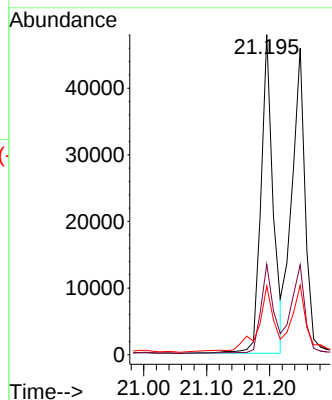
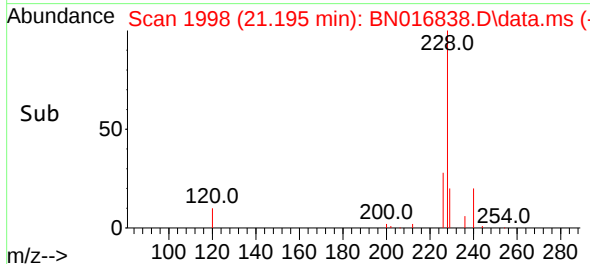




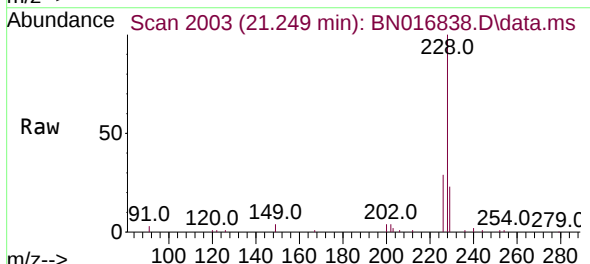
#32  
Benzo(a)anthracene  
Concen: 0.212 ng  
RT: 21.195 min Scan# 1998  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



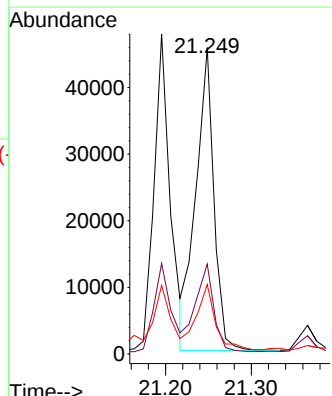
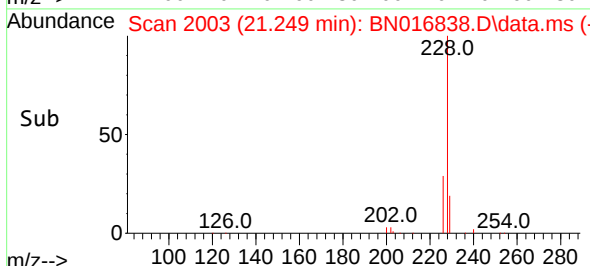
Tgt Ion:228 Resp: 64053  
Ion Ratio Lower Upper  
228 100  
226 28.3 22.3 33.5  
229 21.5 15.4 23.0



#33  
Chrysene  
Concen: 0.216 ng  
RT: 21.249 min Scan# 2003  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



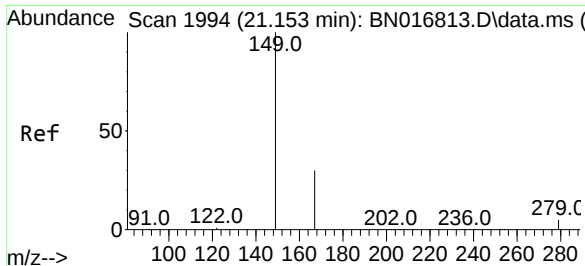
Tgt Ion:228 Resp: 66317  
Ion Ratio Lower Upper  
228 100  
226 29.4 24.2 36.4  
229 22.7 15.4 23.0



Instrument :  
BNA\_N  
ClientSampleId :  
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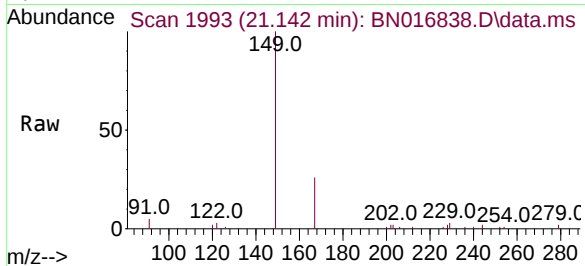
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#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.279 ng  
RT: 21.142 min Scan# 1993  
Delta R.T. -0.011 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

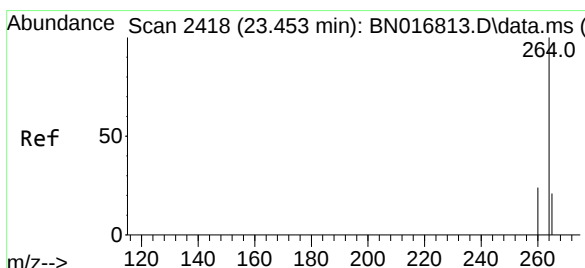
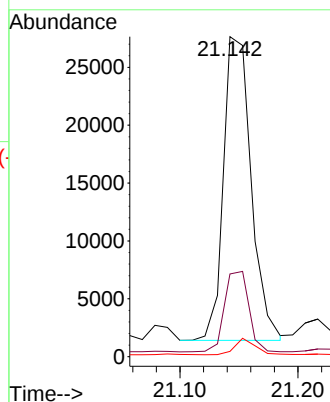
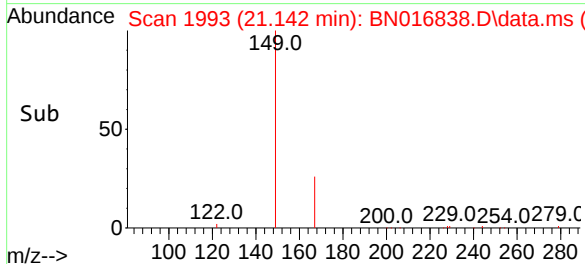
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121



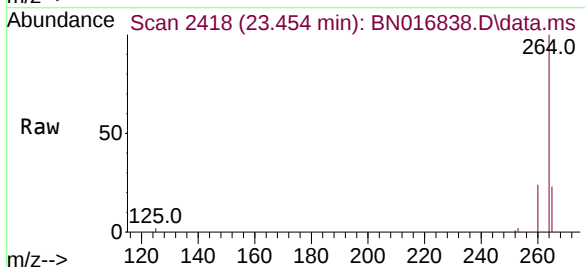
Tgt Ion:149 Resp: 42793  
Ion Ratio Lower Upper  
149 100  
167 23.2 22.2 33.4  
279 4.0 3.4 5.2

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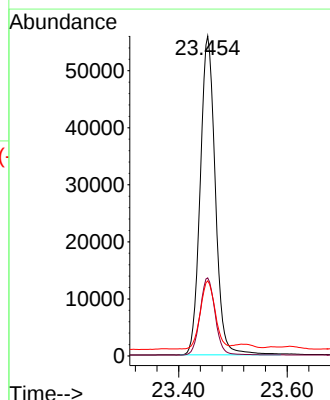
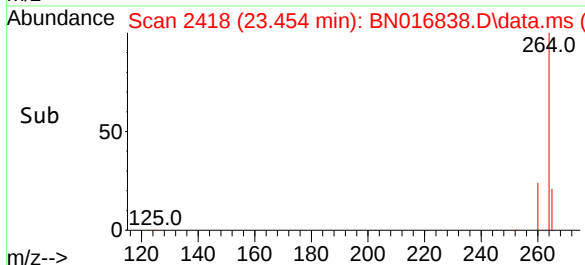
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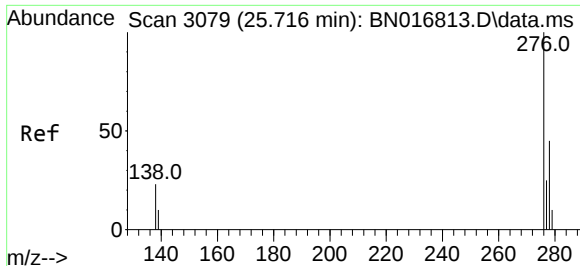


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.454 min Scan# 2418  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

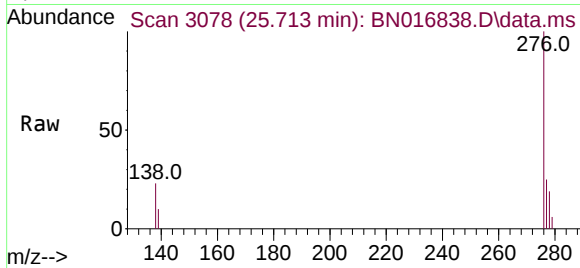


Tgt Ion:264 Resp: 107744  
Ion Ratio Lower Upper  
264 100  
260 24.4 19.8 29.6  
265 23.5 20.3 30.5

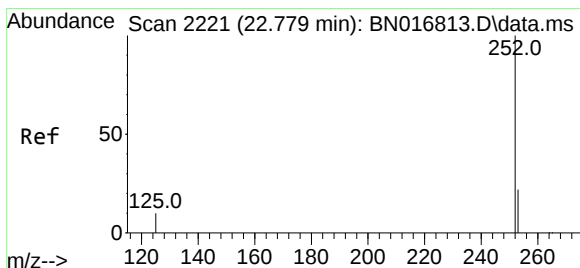
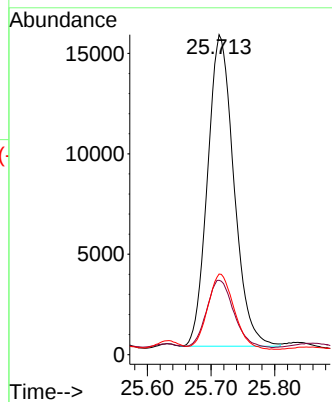
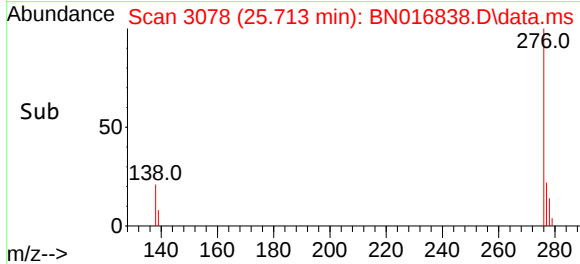




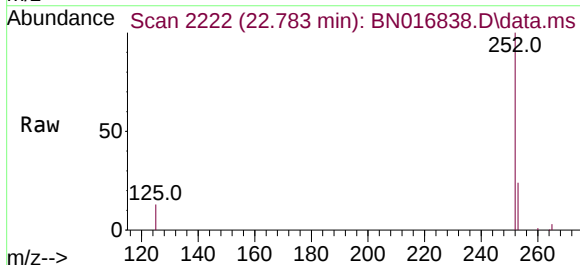
#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.109 ng  
RT: 25.713 min Scan# 3078  
Delta R.T. -0.003 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



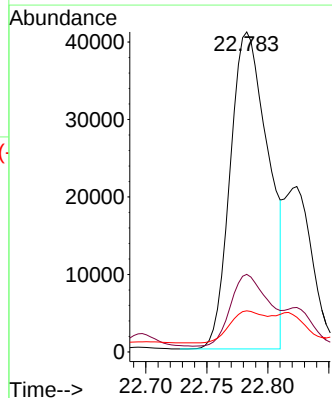
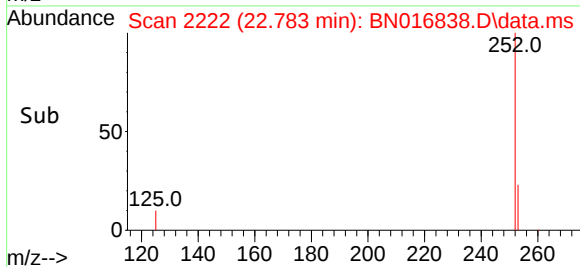
Tgt Ion:276 Resp: 44549  
Ion Ratio Lower Upper  
276 100  
138 22.2 19.2 28.8  
277 24.3 20.0 30.0



#37  
Benzo(b)fluoranthene  
Concen: 0.260 ng  
RT: 22.783 min Scan# 2222  
Delta R.T. 0.004 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



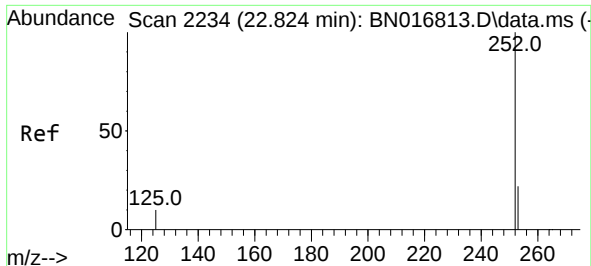
Tgt Ion:252 Resp: 88808  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.8 26.8  
125 12.9 8.3 12.5#



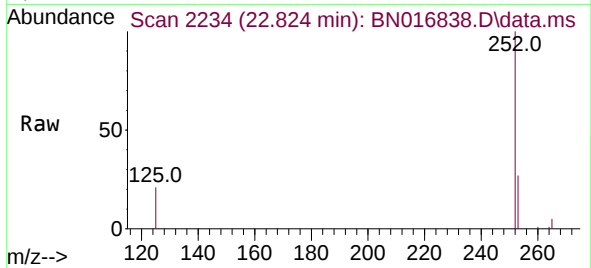
Instrument :  
BNA\_N  
ClientSampleId :  
S-842-R-SO-1-1.5-100121

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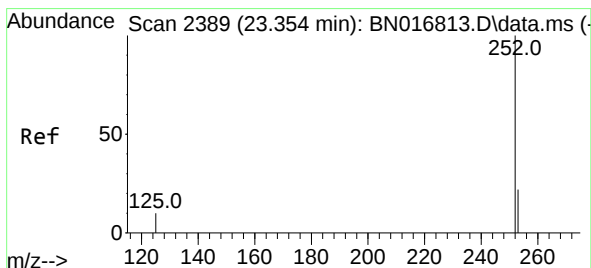
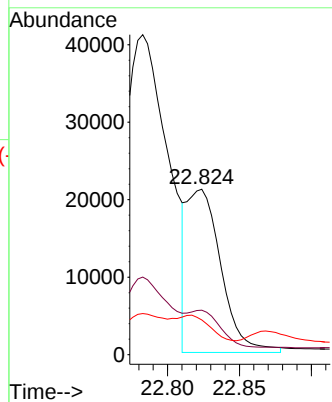
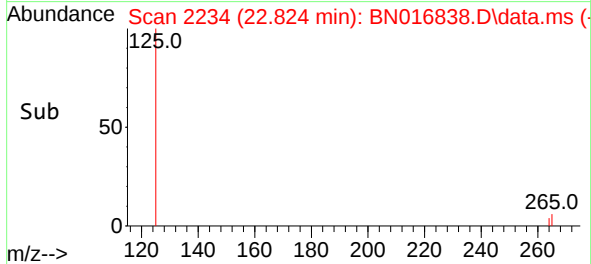
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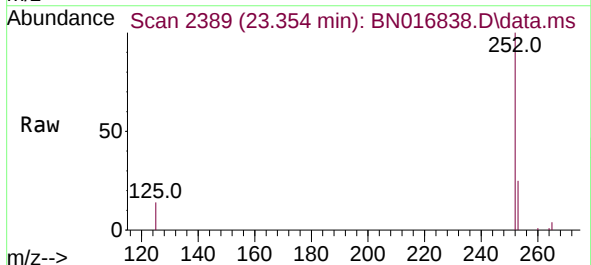
#38  
Benzo(k)fluoranthene  
Concen: 0.105 ng m  
RT: 22.824 min Scan# 2234  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



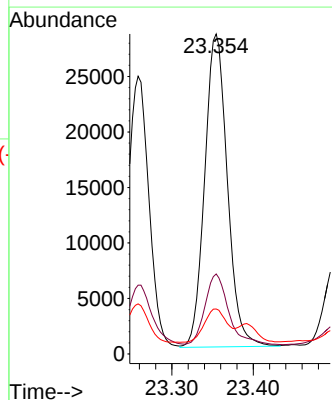
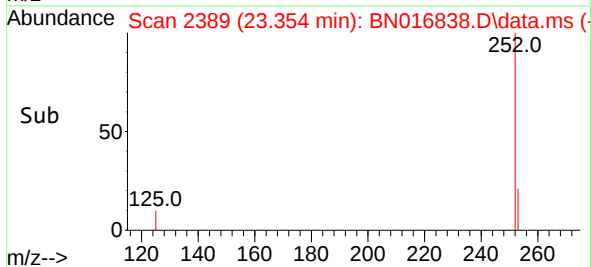
Tgt Ion:252 Resp: 34817  
Ion Ratio Lower Upper  
252 100  
253 26.9 17.8 26.8#  
125 20.9 8.5 12.7#



#39  
Benzo(a)pyrene  
Concen: 0.175 ng  
RT: 23.354 min Scan# 2389  
Delta R.T. 0.000 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08



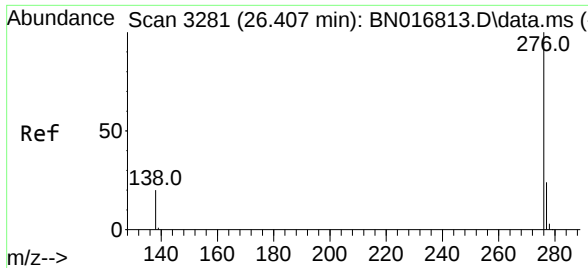
Tgt Ion:252 Resp: 54563  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.9 26.9  
125 14.1 9.4 14.2



Instrument :  
BNA\_N  
ClientSampleId :  
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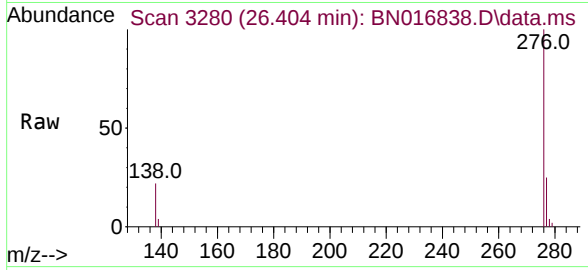
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#41  
Benzo(g,h,i)perylene  
Concen: 0.131 ng  
RT: 26.404 min Scan# 3280  
Delta R.T. -0.003 min  
Lab File: BN016838.D  
Acq: 08 Oct 2021 11:08

Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion: 276 Resp: 46452  
Ion Ratio Lower Upper  
276 100  
277 24.5 19.0 28.4  
138 22.4 17.0 25.6

Manual Integrations  
APPROVED

mohammad  
10/11/2021 2:09:57 PM

