

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032822\  
 Data File : BN019206.D  
 Acq On : 28 Mar 2022 21:46  
 Operator : CG/JU  
 Sample : N2107-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SS2

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/29/2022  
 Supervised By : Jagrut Upadhyay 03/29/2022

Quant Time: Mar 29 06:24:44 2022  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN032522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 25 19:03:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.840  | 152  | 3745     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.648 | 136  | 9394     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.484 | 164  | 5856     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.225 | 188  | 11316    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.413 | 240  | 8557     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.782 | 264  | 7233     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.399  | 112  | 2468     | 0.279 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.009  | 99   | 2315     | 0.229 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.014  | 82   | 1709m    | 0.235 | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10   | 12.246 | 152  | 4933     | 0.328 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.984 | 330  | 91       | 0.032 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 13.116 | 172  | 6614     | 0.269 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.257 | 212  | 12173    | 0.368 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.855 | 244  | 6445     | 0.337 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 9) Naphthalene                | 10.701 | 128  | 544      | 0.021 | ng    | # 53     |
| 17) Acenaphthene              | 14.549 | 154  | 492      | 0.026 | ng    | 96       |
| 18) Fluorene                  | 15.543 | 166  | 681      | 0.028 | ng    | 93       |
| 25) Phenanthrene              | 17.267 | 178  | 8446     | 0.233 | ng    | 99       |
| 26) Anthracene                | 17.369 | 178  | 1856     | 0.062 | ng    | # 93     |
| 28) Fluoranthene              | 19.286 | 202  | 11755    | 0.287 | ng    | 100      |
| 30) Pyrene                    | 19.649 | 202  | 9421     | 0.233 | ng    | 97       |
| 32) Benzo(a)anthracene        | 21.395 | 228  | 3269     | 0.119 | ng    | 95       |
| 33) Chrysene                  | 21.449 | 228  | 3574m    | 0.101 | ng    |          |
| 34) Bis(2-ethylhexyl)phtha... | 21.324 | 149  | 1666     | 0.100 | ng    | # 96     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.226 | 276  | 1828m    | 0.063 | ng    |          |
| 37) Benzo(b)fluoranthene      | 23.071 | 252  | 3628     | 0.132 | ng    | # 59     |
| 38) Benzo(k)fluoranthene      | 23.100 | 252  | 2030m    | 0.058 | ng    |          |
| 39) Benzo(a)pyrene            | 23.676 | 252  | 2171     | 0.092 | ng    | # 46     |
| 41) Benzo(g,h,i)perylene      | 26.971 | 276  | 1859     | 0.062 | ng    | # 80     |
| -----                         |        |      |          |       |       |          |

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

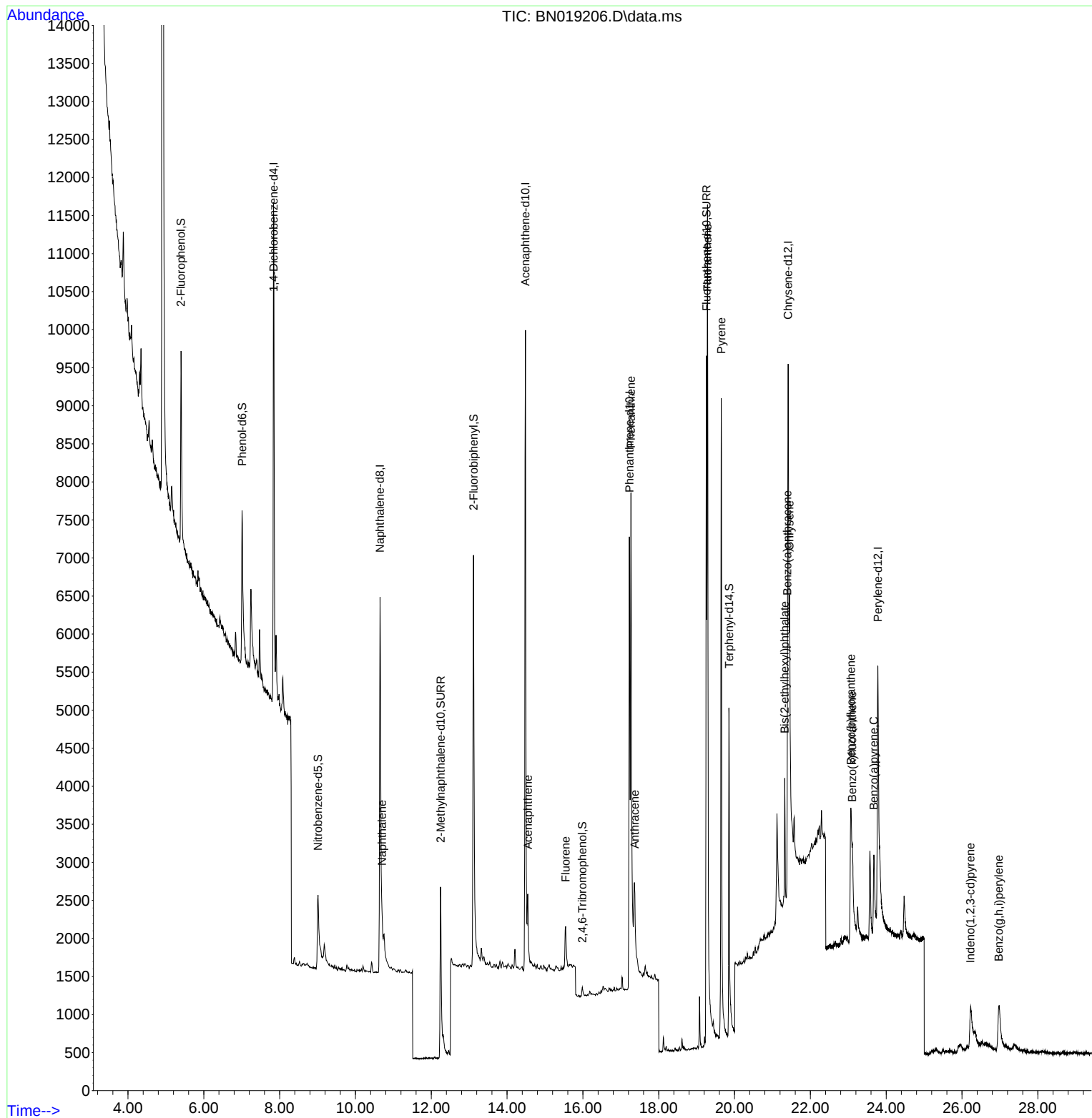
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032822\  
Data File : BN019206.D  
Acq On : 28 Mar 2022 21:46  
Operator : CG/JU  
Sample : N2107-02  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

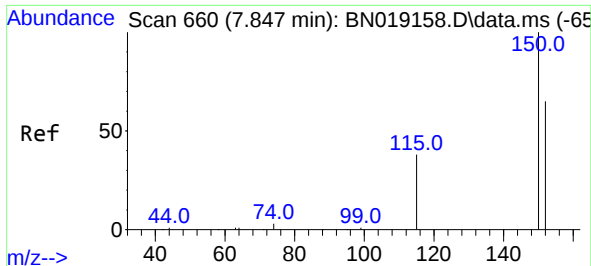
Instrument :  
BNA\_N  
ClientSampleId :  
SS2

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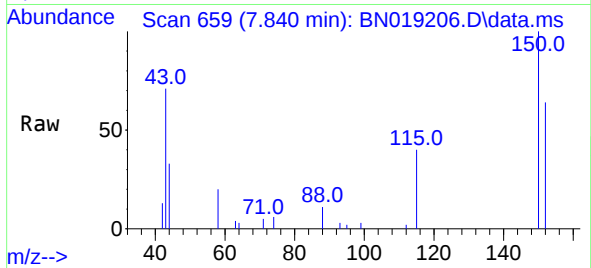
Quant Time: Mar 29 06:24:44 2022  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN032522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 25 19:03:12 2022  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.840 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

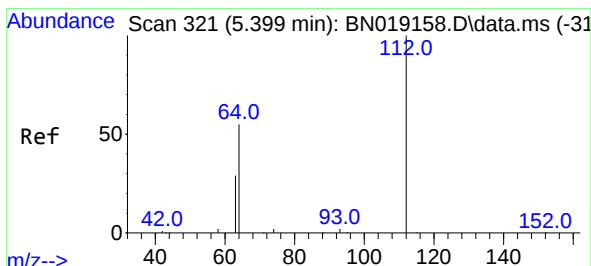
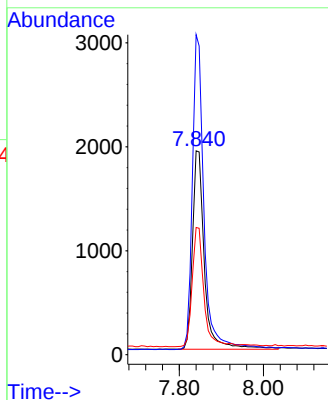
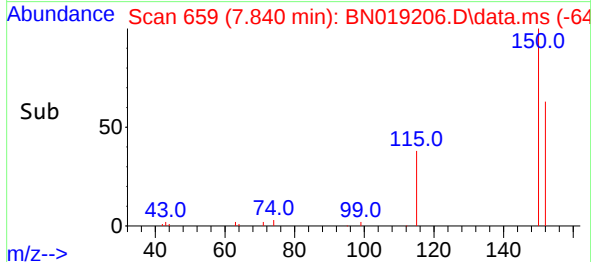
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



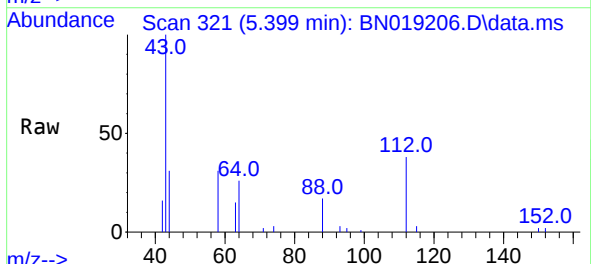
Tgt Ion:152 Resp: 374  
Ion Ratio Lower Upper  
152 100  
150 157.0 123.9 185.9  
115 62.4 48.2 72.4

Manual Integrations  
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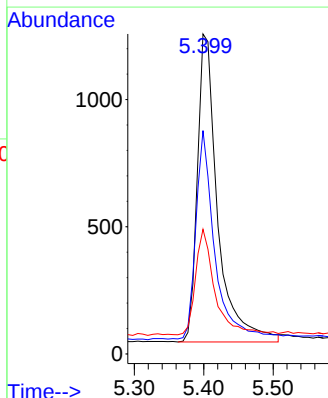
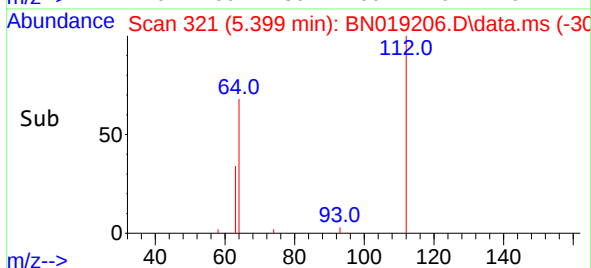
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

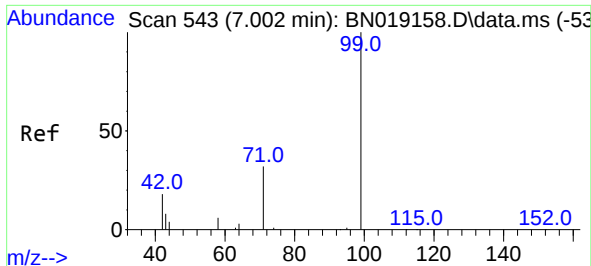


#4  
2-Fluorophenol  
Concen: 0.279 ng  
RT: 5.399 min Scan# 321  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



Tgt Ion:112 Resp: 2468  
Ion Ratio Lower Upper  
112 100  
64 63.0 47.8 71.8  
63 32.8 25.7 38.5





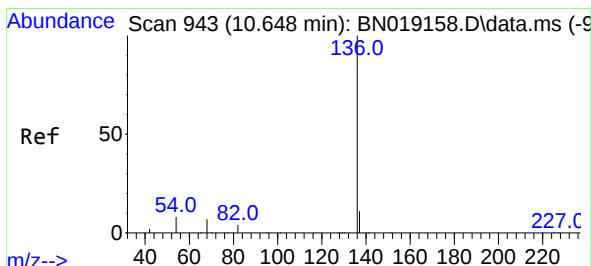
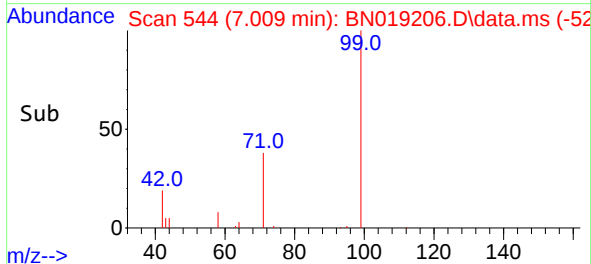
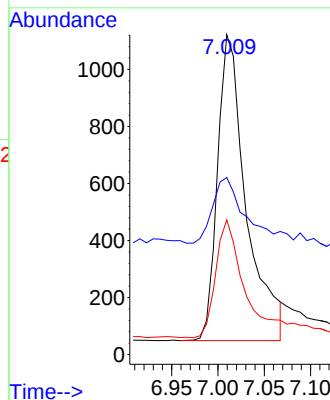
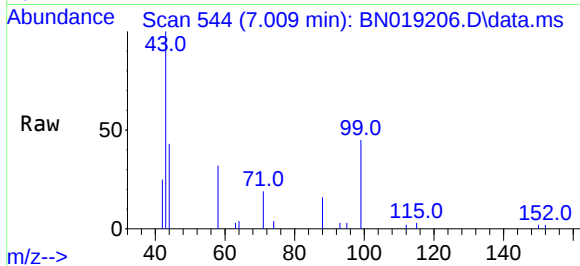
#5  
Phenol-d6  
Concen: 0.229 ng  
RT: 7.009 min Scan# 543  
Delta R.T. 0.007 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

Instrument :  
BNA\_N  
ClientSampleId :  
SS2

Tgt Ion: 99 Resp: 231  
Ion Ratio Lower Upper  
99 100  
42 23.2 16.2 24.4  
71 37.9 27.7 41.5

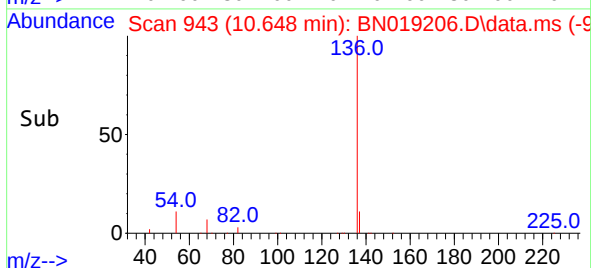
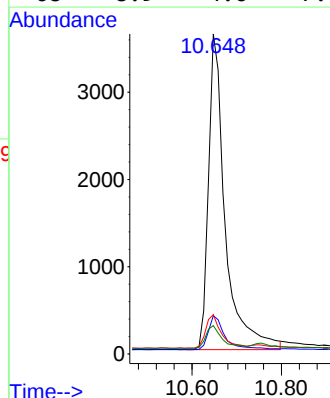
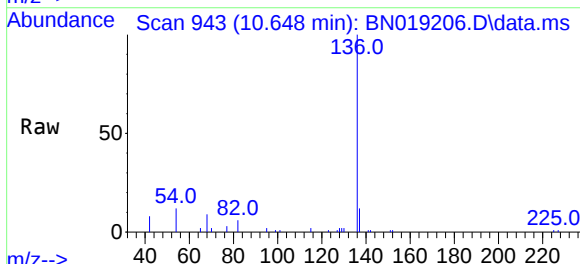
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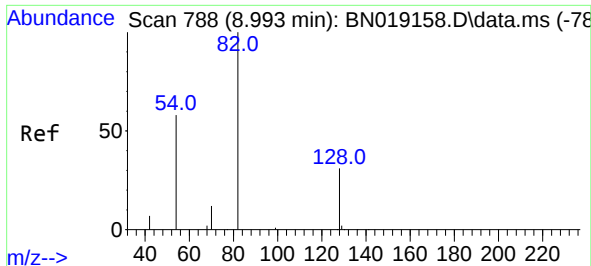
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.648 min Scan# 943  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

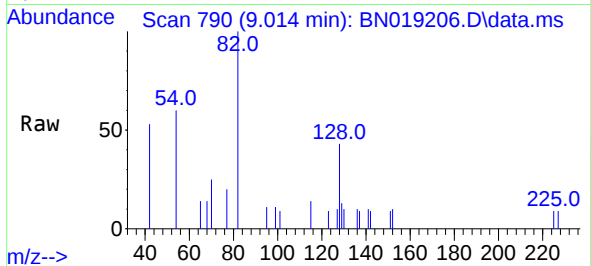
Tgt Ion:136 Resp: 9394  
Ion Ratio Lower Upper  
136 100  
137 11.9 9.0 13.4  
54 12.3 5.8 8.6#  
68 8.9 4.6 7.0#





#8  
Nitrobenzene-d5  
Concen: 0.235 ng m  
RT: 9.014 min Scan# 790  
Delta R.T. 0.021 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

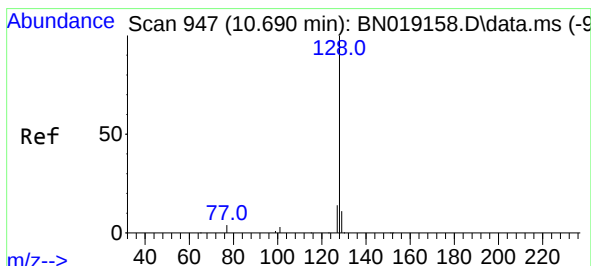
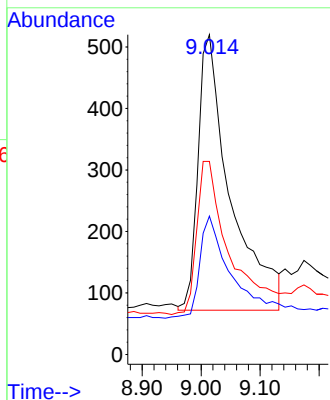
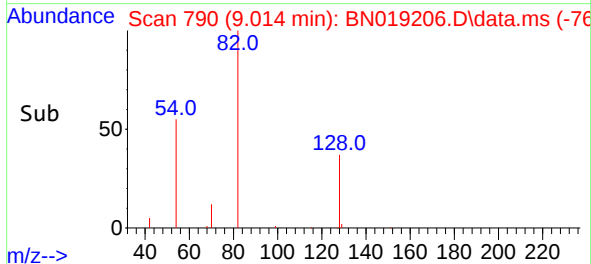
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



Tgt Ion: 82 Resp: 1709  
Ion Ratio Lower Upper  
82 100  
128 43.3 33.0 49.6  
54 60.4 42.5 63.7

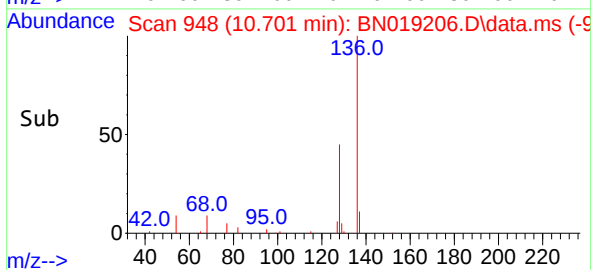
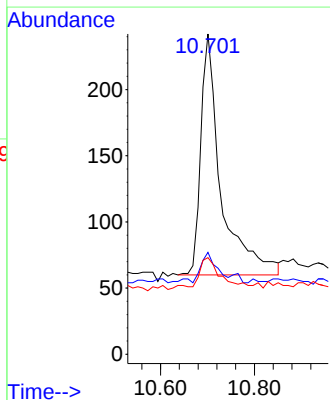
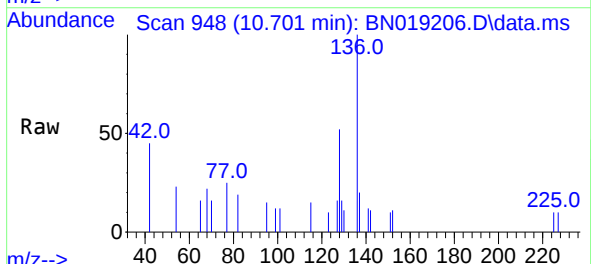
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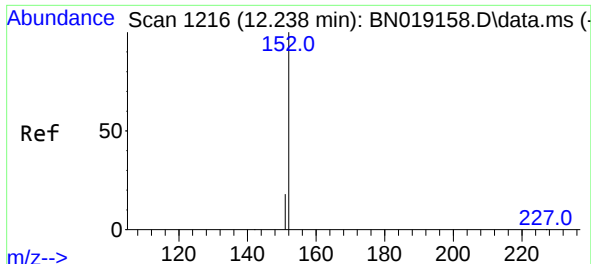
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022



#9  
Naphthalene  
Concen: 0.021 ng  
RT: 10.701 min Scan# 948  
Delta R.T. 0.011 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

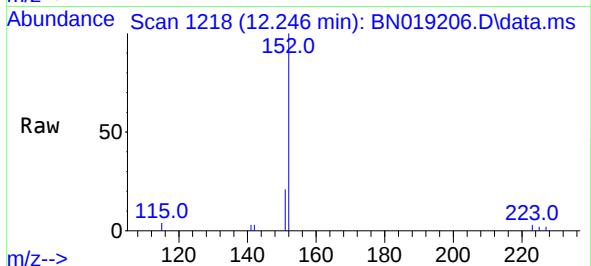
Tgt Ion:128 Resp: 544  
Ion Ratio Lower Upper  
128 100  
129 31.8 9.0 13.4#  
127 30.2 10.7 16.1#





#11  
2-Methylnaphthalene-d10  
Concen: 0.328 ng  
RT: 12.246 min Scan# 1216  
Delta R.T. 0.008 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

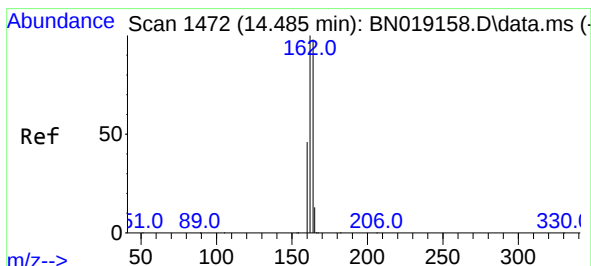
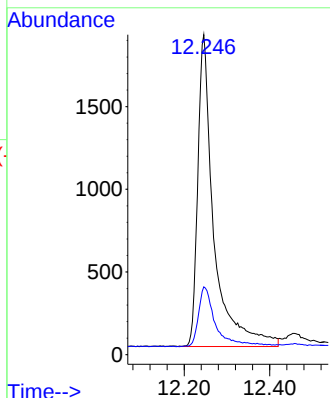
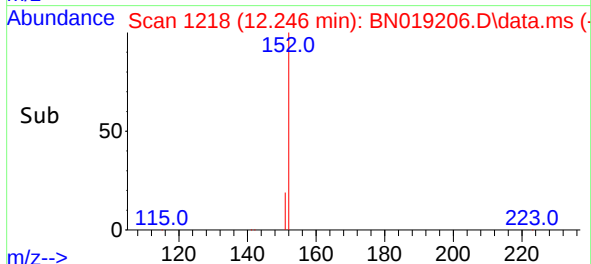
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



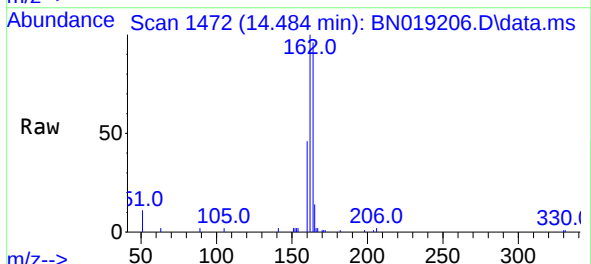
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Ion Ratio Lower Upper  
152 100  
151 19.3 16.5 24.7

Manual Integrations  
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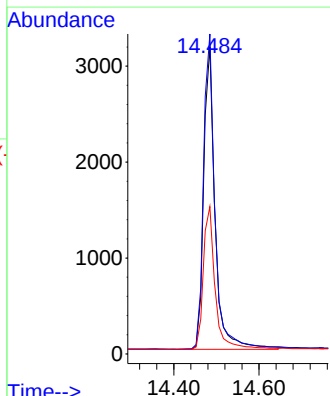
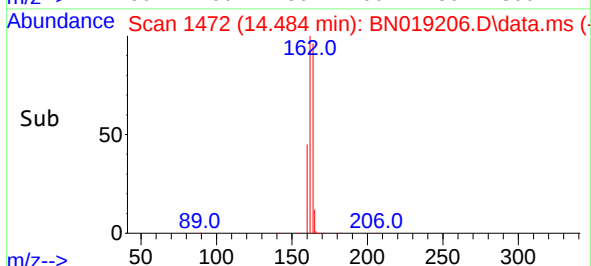
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

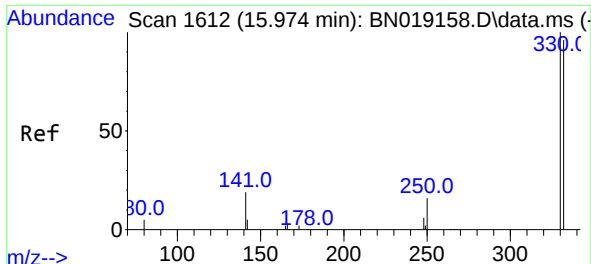


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.484 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



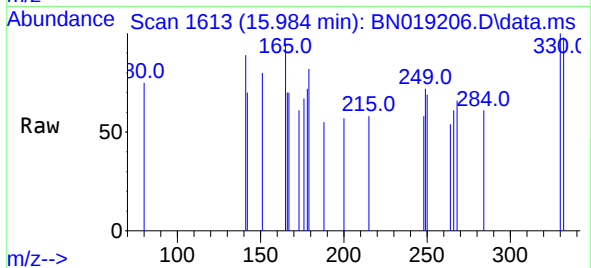
Tgt Ion:164 Resp: 5856  
Ion Ratio Lower Upper  
164 100  
162 104.2 85.2 127.8  
160 48.0 41.5 62.3





#14  
2,4,6-Tribromophenol  
Concen: 0.032 ng  
RT: 15.984 min Scan# 1613  
Delta R.T. 0.010 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

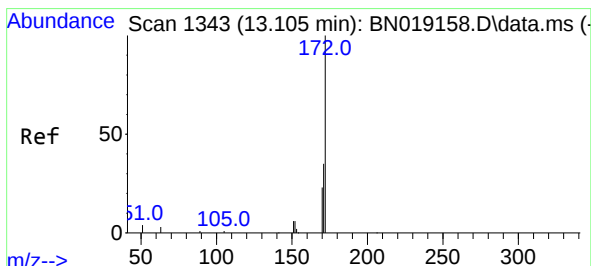
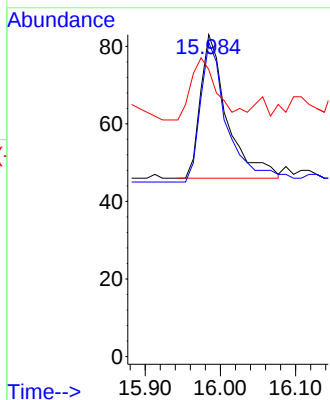
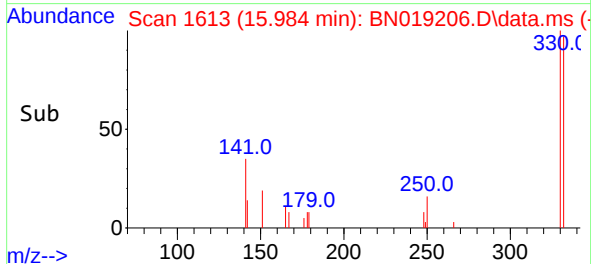
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



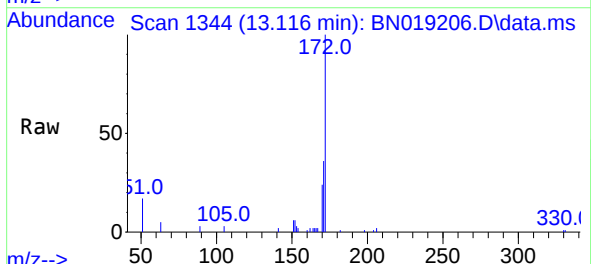
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Ion Ratio Lower Upper  
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332 97.8 76.8 115.2  
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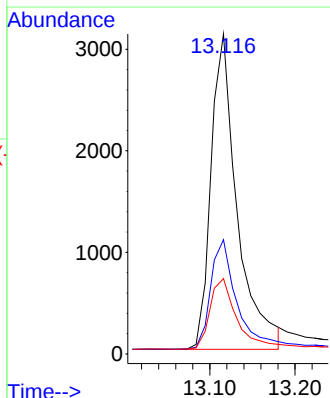
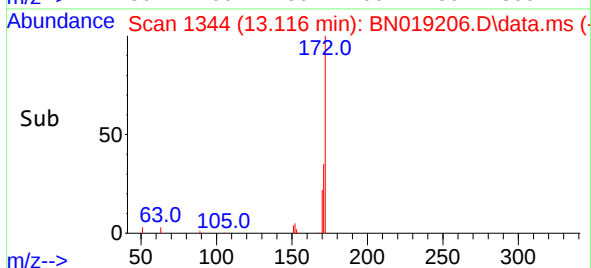
Reviewed By : Christian Giraldo 03/29/2022  
Supervised By : Jagrut Upadhyay 03/29/2022

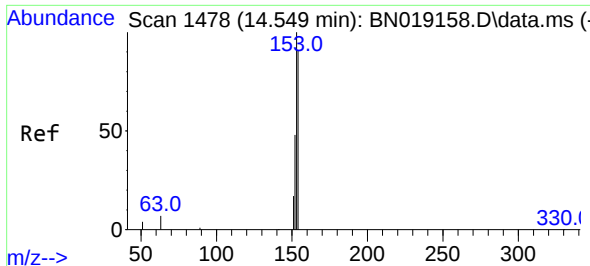


#15  
2-Fluorobiphenyl  
Concen: 0.269 ng  
RT: 13.116 min Scan# 1344  
Delta R.T. 0.011 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



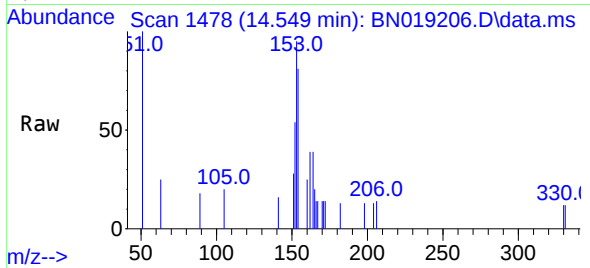
Tgt Ion: 172 Resp: 6614  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.2 42.2  
170 23.5 18.7 28.1





#17  
Acenaphthene  
Concen: 0.026 ng  
RT: 14.549 min Scan# 1478  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

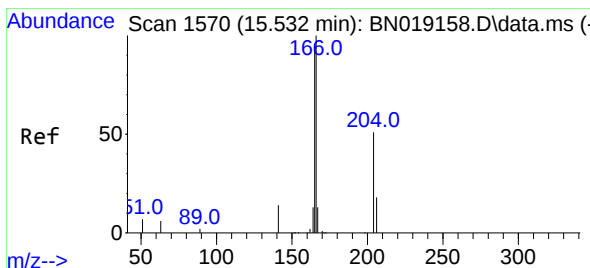
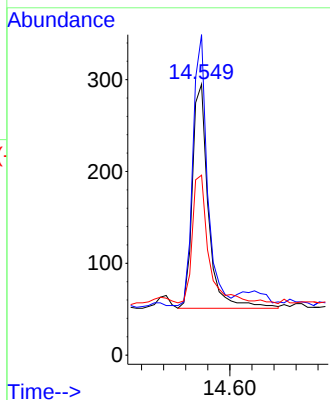
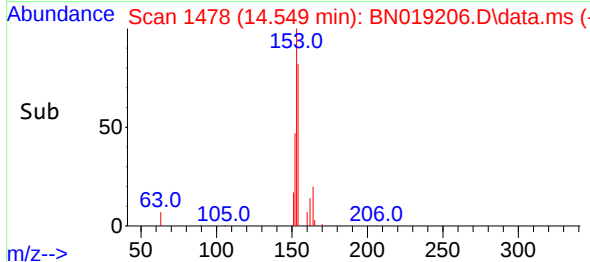
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



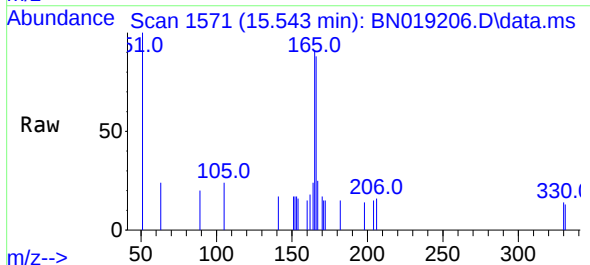
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Ion Ratio Lower Upper  
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153 108.3 89.7 134.5  
152 59.3 44.7 67.1

Manual Integrations  
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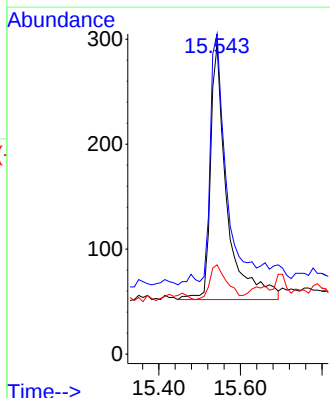
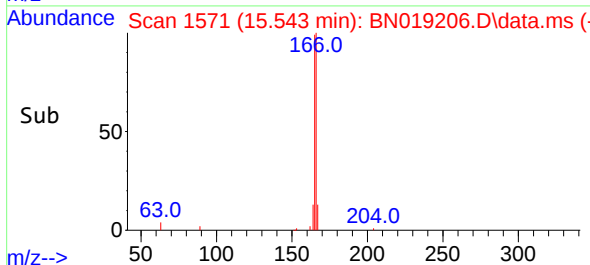
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

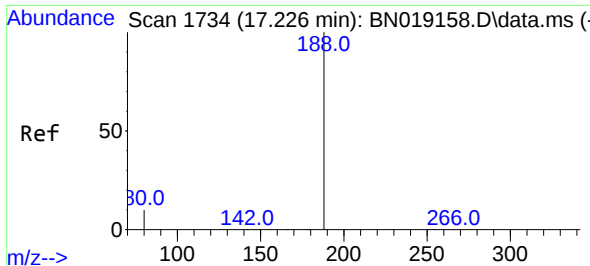


#18  
Fluorene  
Concen: 0.028 ng  
RT: 15.543 min Scan# 1571  
Delta R.T. 0.011 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



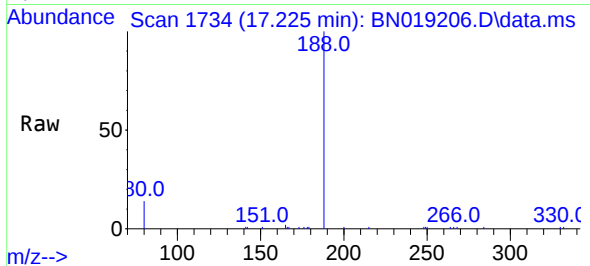
Tgt Ion:166 Resp: 681  
Ion Ratio Lower Upper  
166 100  
165 91.5 79.2 118.8  
167 14.5 10.7 16.1





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.225 min Scan# 1734  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

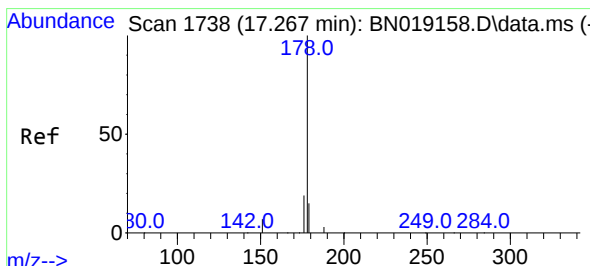
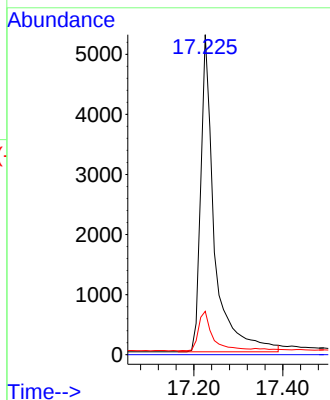
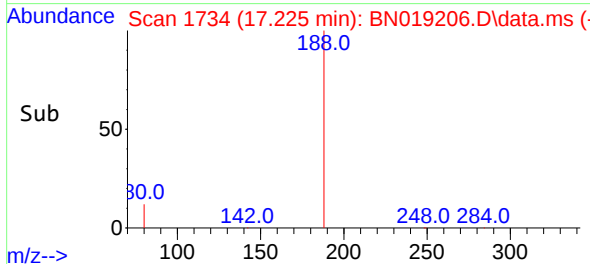
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



Tgt Ion:188 Resp: 11310  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.6 11.8 17.8

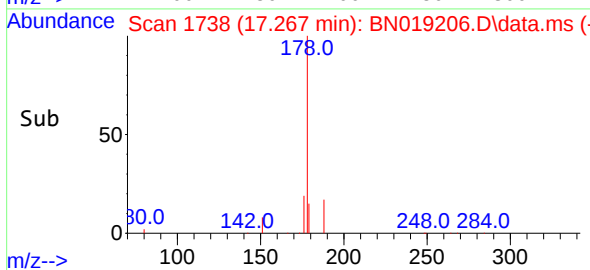
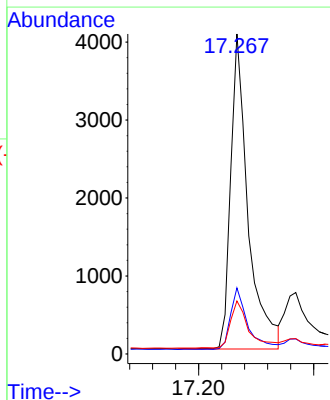
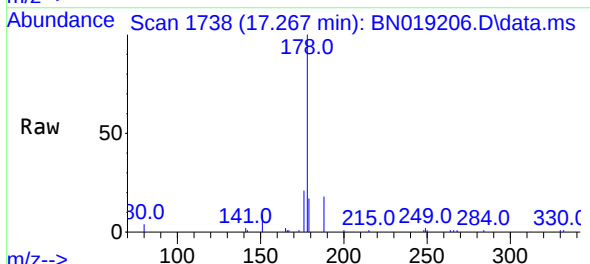
Manual Integrations  
APPROVED

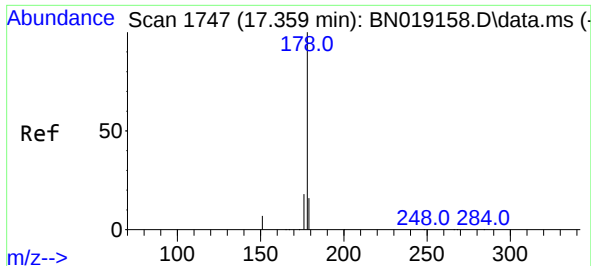
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022



#25  
Phenanthrene  
Concen: 0.233 ng  
RT: 17.267 min Scan# 1738  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

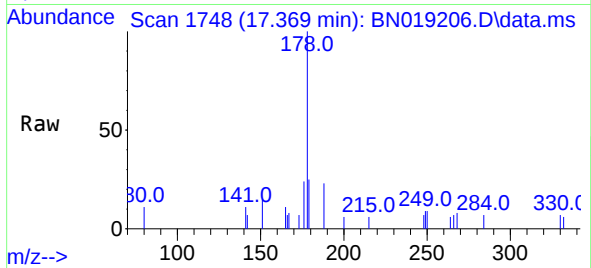
Tgt Ion:178 Resp: 8446  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.0  
179 16.2 12.2 18.2





#26  
 Anthracene  
 Concen: 0.062 ng  
 RT: 17.369 min Scan# 11  
 Delta R.T. 0.010 min  
 Lab File: BN019206.D  
 Acq: 28 Mar 2022 21:46

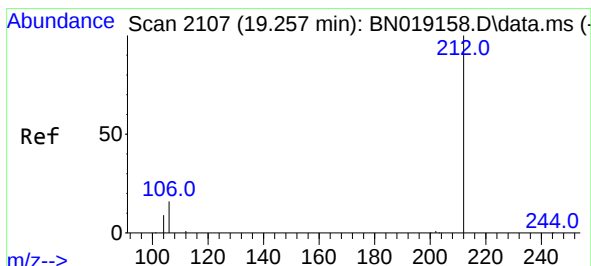
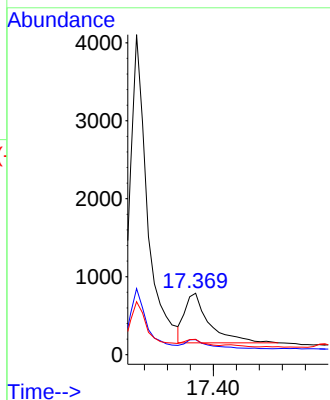
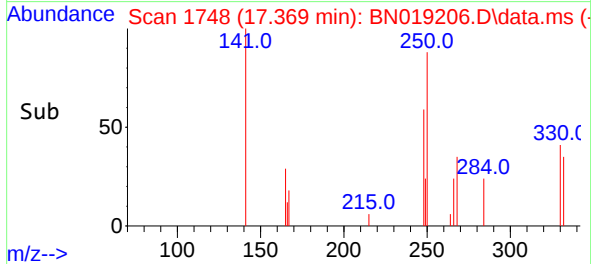
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SS2



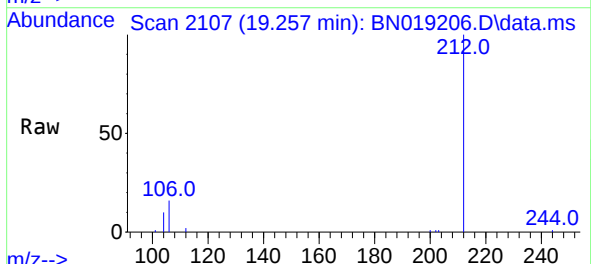
Tgt Ion:178 Resp: 1850  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 14.8 22.2  
 179 8.6 12.2 18.4

Manual Integrations  
 APPROVED

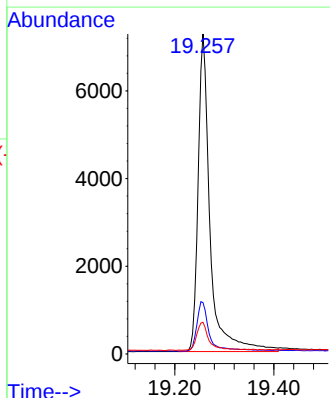
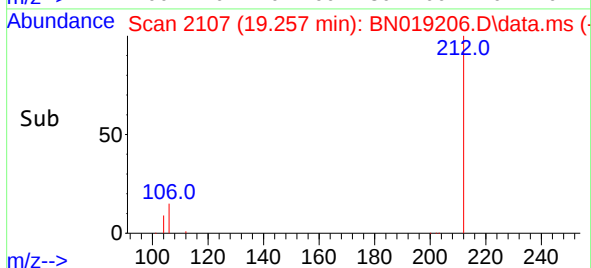
Reviewed By :Christian Giraldo 03/29/2022  
 Supervised By :Jagrut Upadhyay 03/29/2022

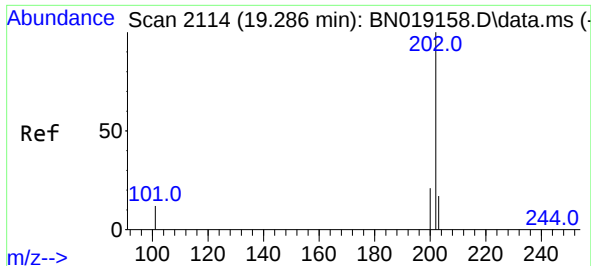


#27  
 Fluoranthene-d10  
 Concen: 0.368 ng  
 RT: 19.257 min Scan# 2107  
 Delta R.T. -0.000 min  
 Lab File: BN019206.D  
 Acq: 28 Mar 2022 21:46



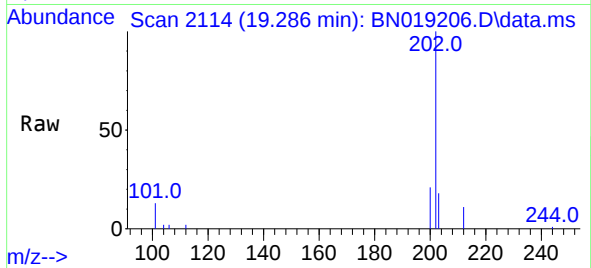
Tgt Ion:212 Resp: 12173  
 Ion Ratio Lower Upper  
 212 100  
 106 16.2 12.7 19.1  
 104 9.1 7.1 10.7





#28  
Fluoranthene  
Concen: 0.287 ng  
RT: 19.286 min Scan# 2114  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

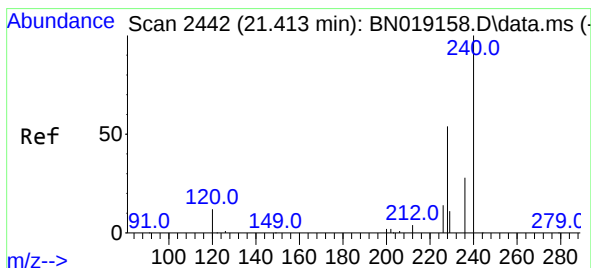
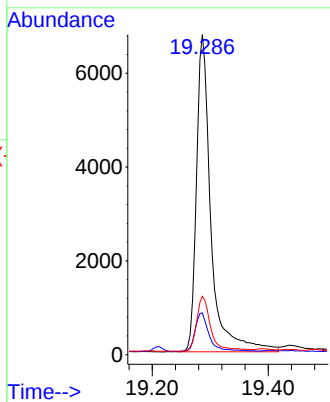
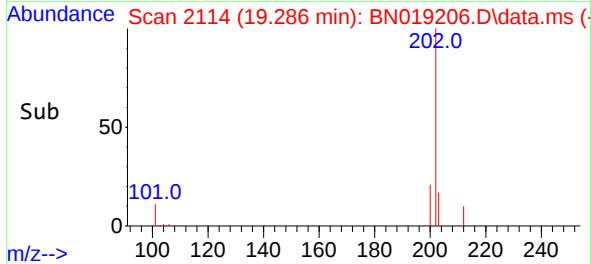
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



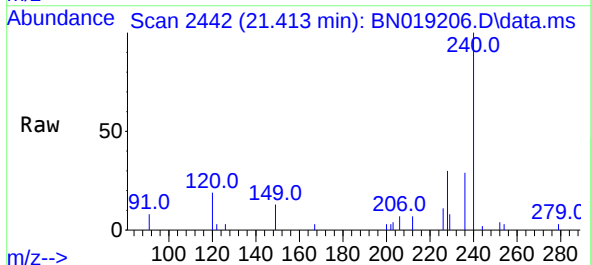
Tgt Ion:202 Resp: 1175  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.8 14.6  
203 17.0 13.7 20.5

Manual Integrations  
APPROVED

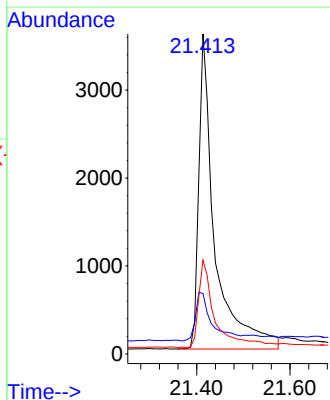
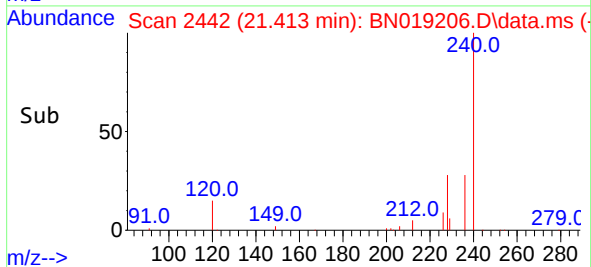
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

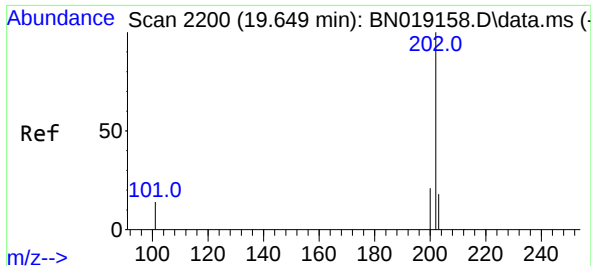


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.413 min Scan# 2442  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



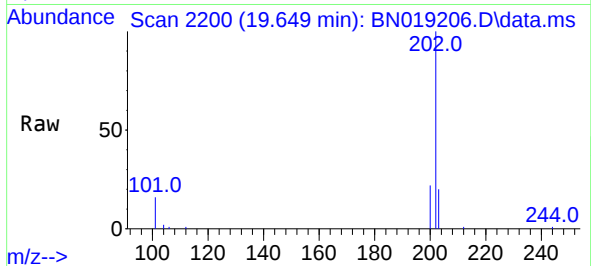
Tgt Ion:240 Resp: 8557  
Ion Ratio Lower Upper  
240 100  
120 18.9 8.5 12.7#  
236 29.3 22.4 33.6





#30  
Pyrene  
Concen: 0.233 ng  
RT: 19.649 min Scan# 2199  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

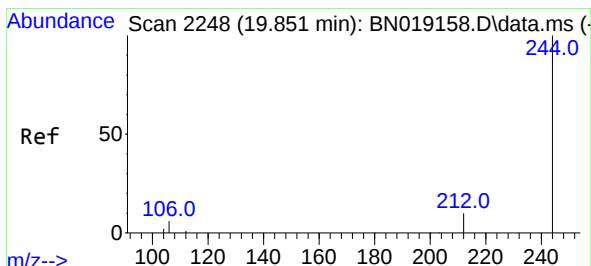
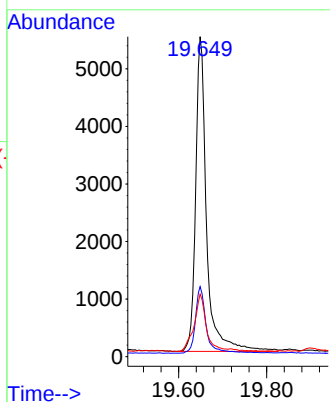
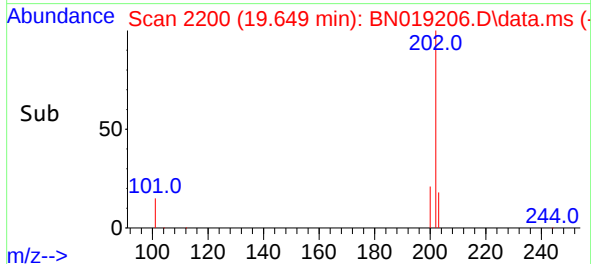
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



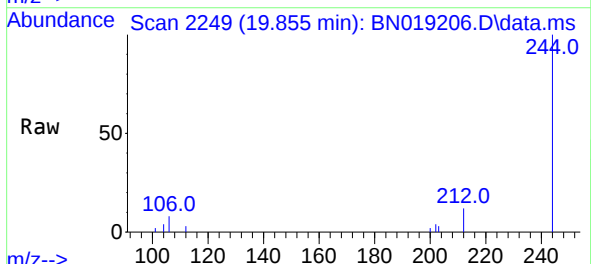
Tgt Ion:202 Resp: 942  
Ion Ratio Lower Upper  
202 100  
200 20.5 16.9 25.3  
203 20.3 14.2 21.2

Manual Integrations  
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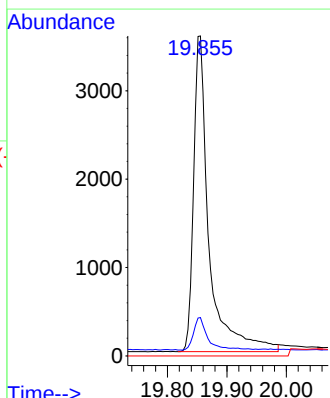
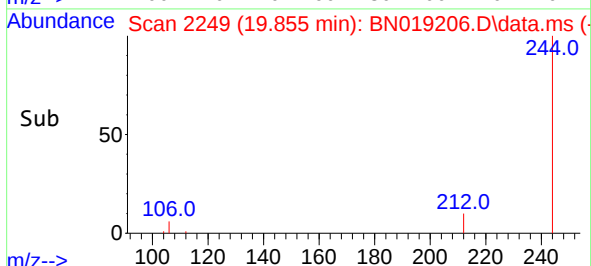
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

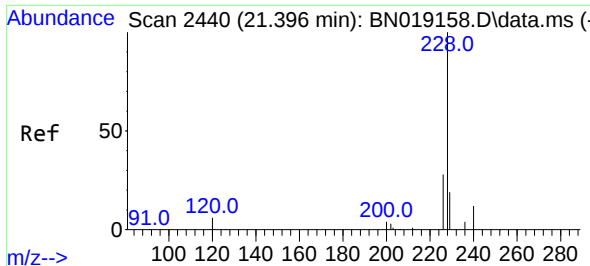


#31  
Terphenyl-d14  
Concen: 0.337 ng  
RT: 19.855 min Scan# 2249  
Delta R.T. 0.004 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



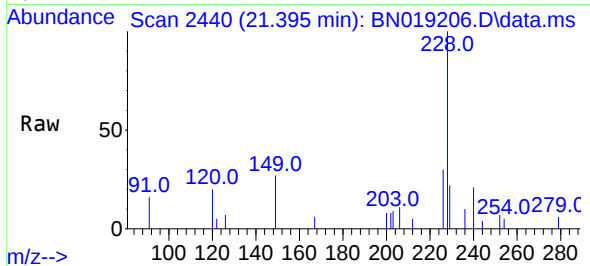
Tgt Ion:244 Resp: 6445  
Ion Ratio Lower Upper  
244 100  
212 12.0 8.2 12.4  
122 0.0 0.0 0.0





#32  
Benzo(a)anthracene  
Concen: 0.119 ng  
RT: 21.395 min Scan# 2440  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

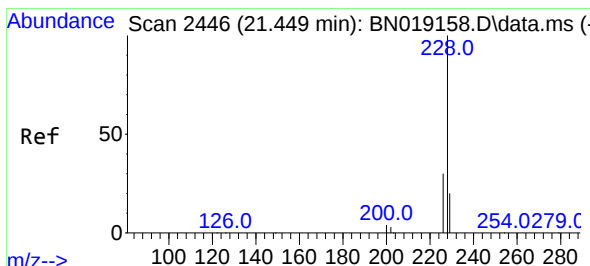
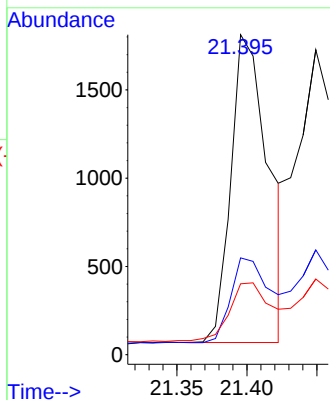
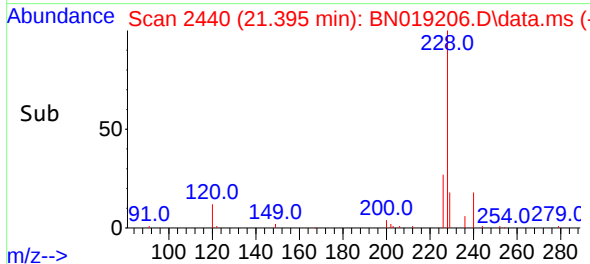
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



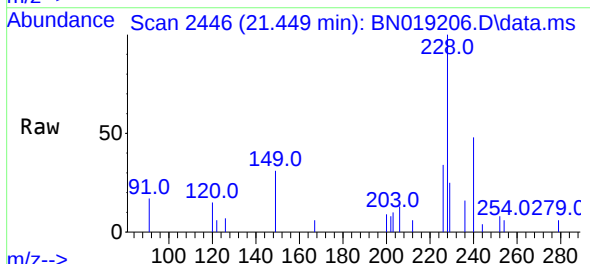
Tgt Ion:228 Resp: 3269  
Ion Ratio Lower Upper  
228 100  
226 30.3 21.9 32.9  
229 22.2 16.0 24.0

Manual Integrations  
APPROVED

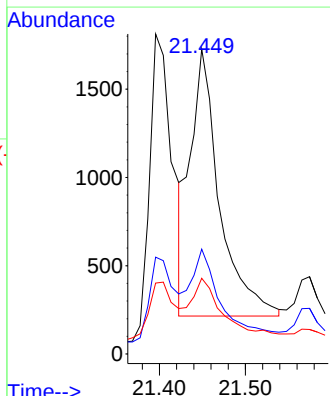
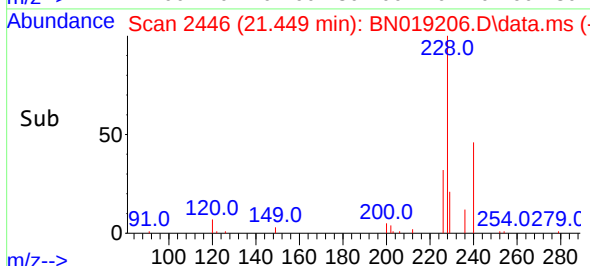
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

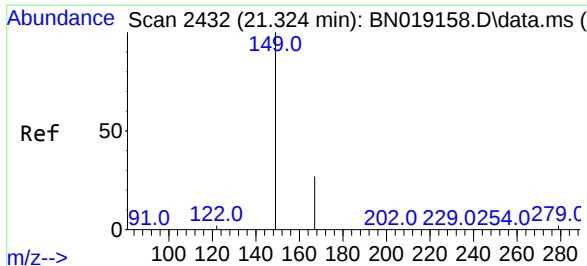


#33  
Chrysene  
Concen: 0.101 ng m  
RT: 21.449 min Scan# 2446  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



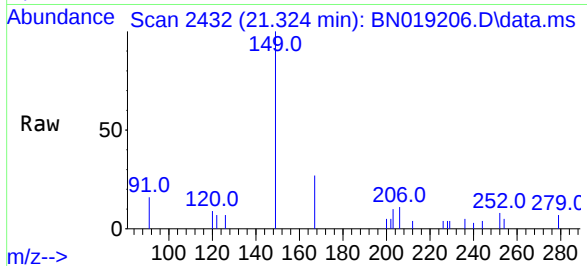
Tgt Ion:228 Resp: 3574  
Ion Ratio Lower Upper  
228 100  
226 34.4 24.0 36.0  
229 24.8 15.9 23.9#





#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.100 ng  
RT: 21.324 min Scan# 2432  
Delta R.T. -0.000 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

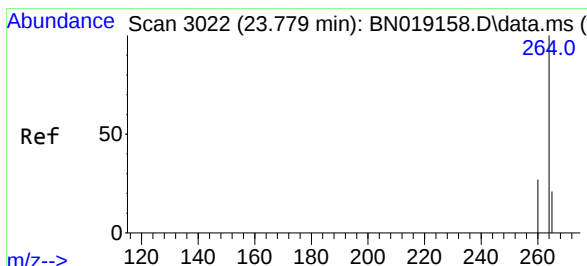
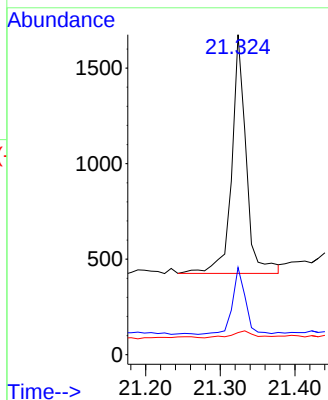
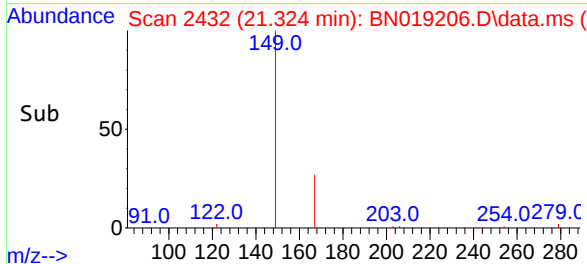
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



Tgt Ion:149 Resp: 1660  
Ion Ratio Lower Upper  
149 100  
167 25.1 21.8 32.8  
279 4.6 2.0 3.0

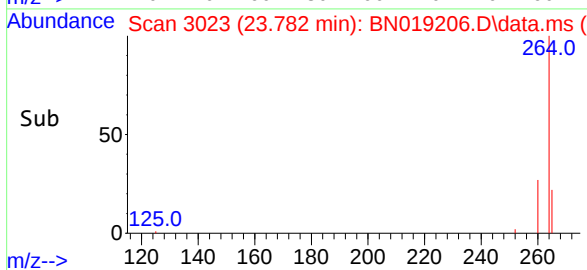
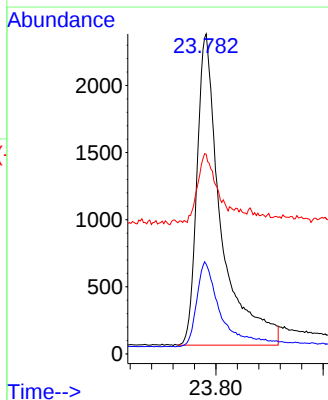
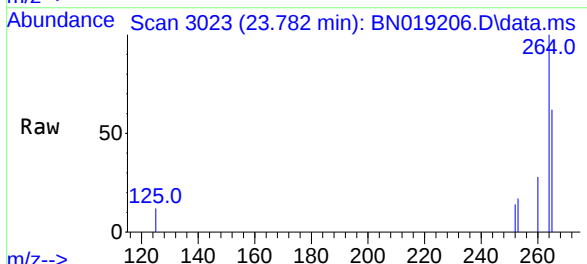
Manual Integrations  
APPROVED

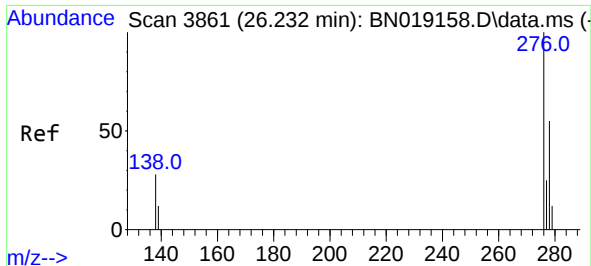
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.782 min Scan# 3023  
Delta R.T. 0.003 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

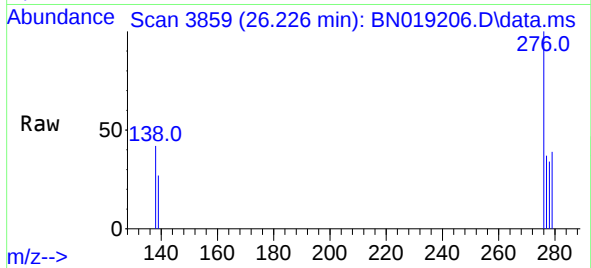
Tgt Ion:264 Resp: 7233  
Ion Ratio Lower Upper  
264 100  
260 28.0 22.4 33.6  
265 62.4 25.3 37.9





#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.063 ng m  
RT: 26.226 min Scan# 3861  
Delta R.T. -0.006 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

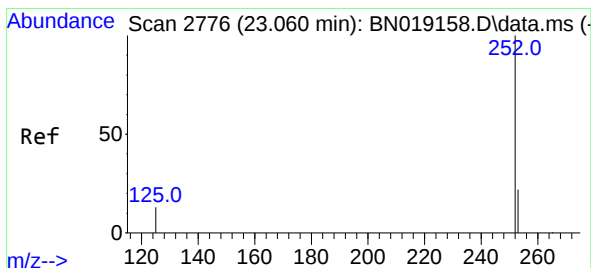
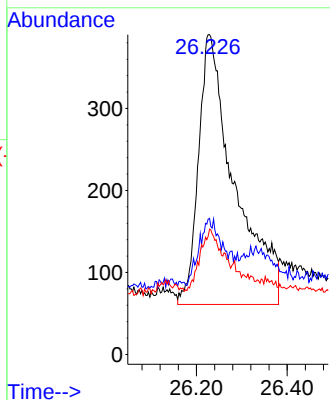
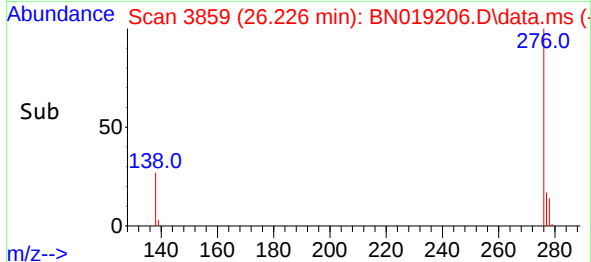
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



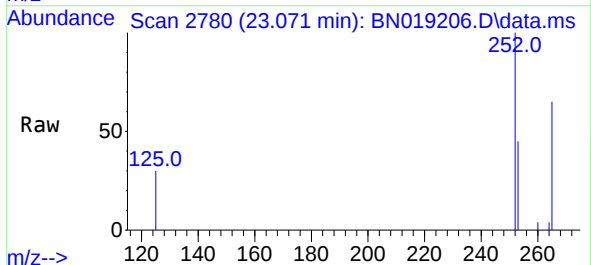
Tgt Ion:276 Resp: 1828  
Ion Ratio Lower Upper  
276 100  
138 8.8 24.5 36.7#  
277 11.9 19.8 29.8#

Manual Integrations  
APPROVED

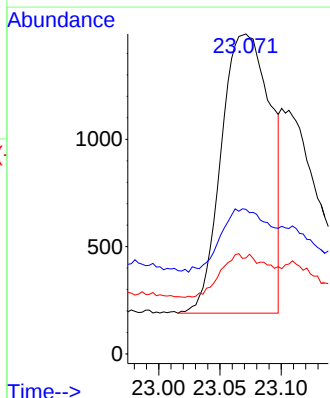
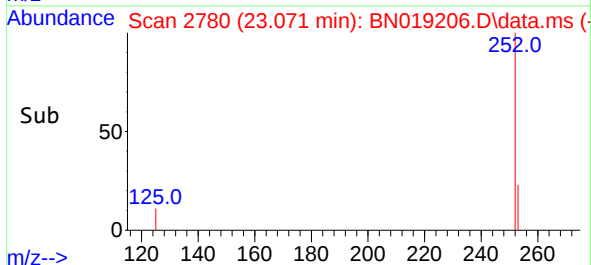
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

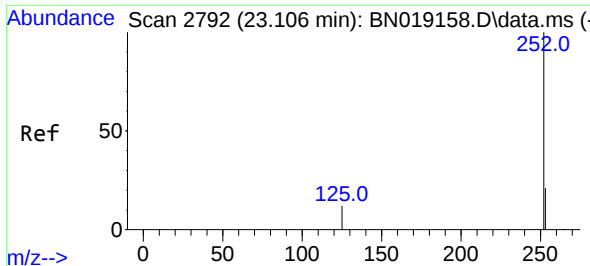


#37  
Benzo(b)fluoranthene  
Concen: 0.132 ng  
RT: 23.071 min Scan# 2780  
Delta R.T. 0.012 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



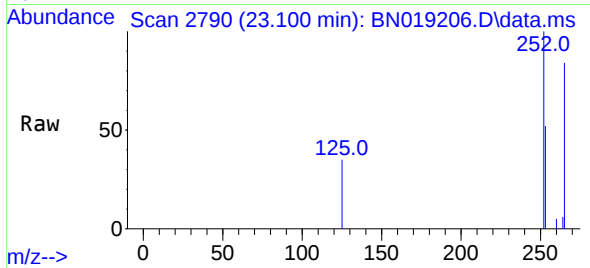
Tgt Ion:252 Resp: 3628  
Ion Ratio Lower Upper  
252 100  
253 45.2 18.9 28.3#  
125 30.0 12.1 18.1#





#38  
Benzo(k)fluoranthene  
Concen: 0.058 ng m  
RT: 23.100 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

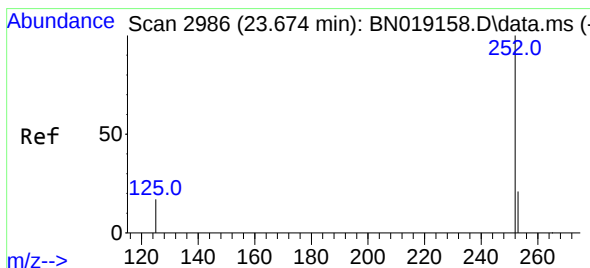
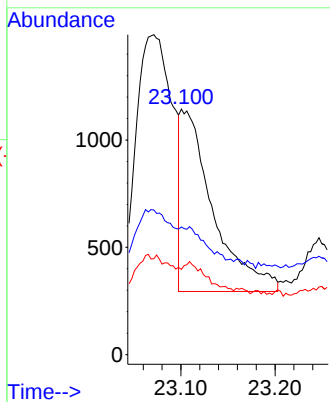
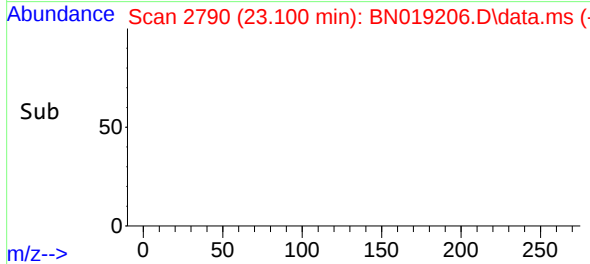
Instrument :  
BNA\_N  
ClientSampleId :  
SS2



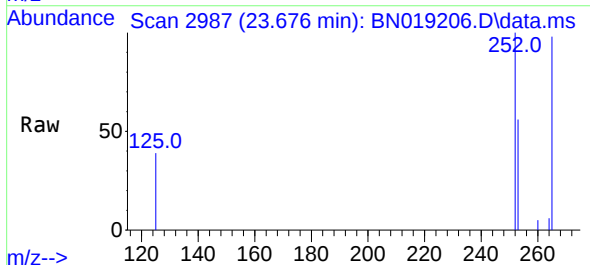
Tgt Ion:252 Resp: 2030  
Ion Ratio Lower Upper  
252 100  
253 52.0 18.9 28.3#  
125 34.7 10.3 15.5#

Manual Integrations  
APPROVED

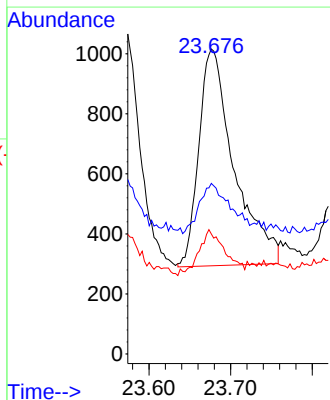
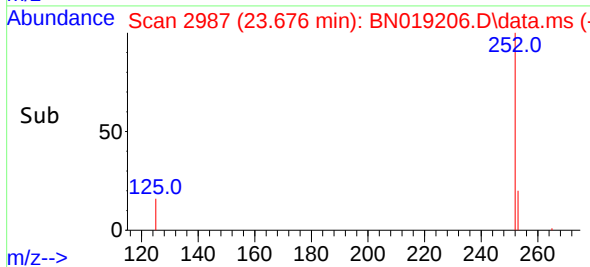
Reviewed By :Christian Giraldo 03/29/2022  
Supervised By :Jagrut Upadhyay 03/29/2022

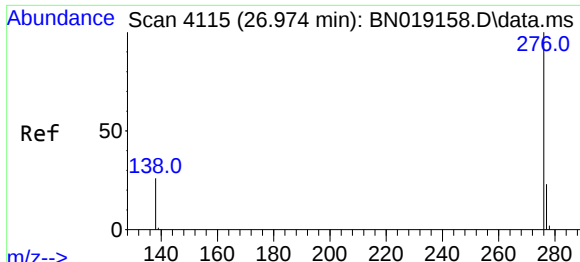


#39  
Benzo(a)pyrene  
Concen: 0.092 ng  
RT: 23.676 min Scan# 2987  
Delta R.T. 0.003 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46



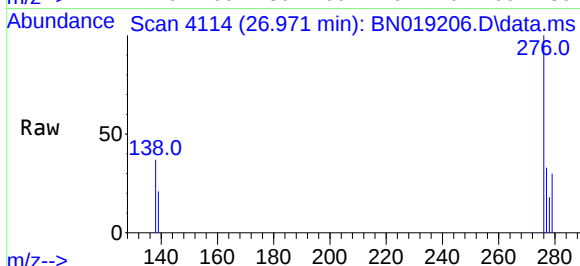
Tgt Ion:252 Resp: 2171  
Ion Ratio Lower Upper  
252 100  
253 55.9 20.1 30.1#  
125 39.4 15.2 22.8#





#41  
Benzo(g,h,i)perylene  
Concen: 0.062 ng  
RT: 26.971 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: BN019206.D  
Acq: 28 Mar 2022 21:46

Instrument :  
BNA\_N  
ClientSampleId :  
SS2



Tgt Ion: 276 Resp: 185

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 32.9  | 19.4  | 29.0  |
| 138 | 37.4  | 21.0  | 31.6  |

Manual Integrations  
APPROVED

Reviewed By : Christian Giraldo 03/29/2022  
Supervised By : Jagrut Upadhyay 03/29/2022

