

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032122\  
 Data File : BN019031.D  
 Acq On : 21 Mar 2022 20:19  
 Operator : CG/JU  
 Sample : N2007-03 10X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP3

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/22/2022  
 Supervised By : Jagrut Upadhyay 03/23/2022

Quant Time: Mar 22 02:32:29 2022  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN031722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 17 13:18:23 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.854  | 152  | 7611     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.658 | 136  | 21230    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.495 | 164  | 12316    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.225 | 188  | 19764    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.422 | 240  | 12508    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.787 | 264  | 12420    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.413  | 112  | 291      | 0.017 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.024  | 99   | 225      | 0.013 | ng    | 0.01     |
| 8) Nitrobenzene-d5            | 9.014  | 82   | 149      | 0.010 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.253 | 152  | 451      | 0.013 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.984 | 330  | 85       | 0.014 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.127 | 172  | 708      | 0.014 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.261 | 212  | 713      | 0.012 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.860 | 244  | 574      | 0.019 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 25) Phenanthrene              | 17.277 | 178  | 3334     | 0.054 | ng    | 99       |
| 28) Fluoranthene              | 19.295 | 202  | 9690     | 0.134 | ng    | 99       |
| 30) Pyrene                    | 19.653 | 202  | 9313     | 0.149 | ng    | # 93     |
| 32) Benzo(a)anthracene        | 21.404 | 228  | 3722     | 0.097 | ng    | # 66     |
| 33) Chrysene                  | 21.458 | 228  | 4856     | 0.093 | ng    | # 70     |
| 34) Bis(2-ethylhexyl)phtha... | 21.333 | 149  | 2243     | 0.088 | ng    | # 94     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.235 | 276  | 3030     | 0.068 | ng    | # 90     |
| 37) Benzo(b)fluoranthene      | 23.068 | 252  | 6233     | 0.138 | ng    | # 28     |
| 38) Benzo(k)fluoranthene      | 23.109 | 252  | 2467m    | 0.040 | ng    |          |
| 39) Benzo(a)pyrene            | 23.682 | 252  | 3521     | 0.085 | ng    | # 35     |
| 41) Benzo(g,h,i)perylene      | 26.983 | 276  | 5475     | 0.124 | ng    | # 73     |
| -----                         |        |      |          |       |       |          |

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

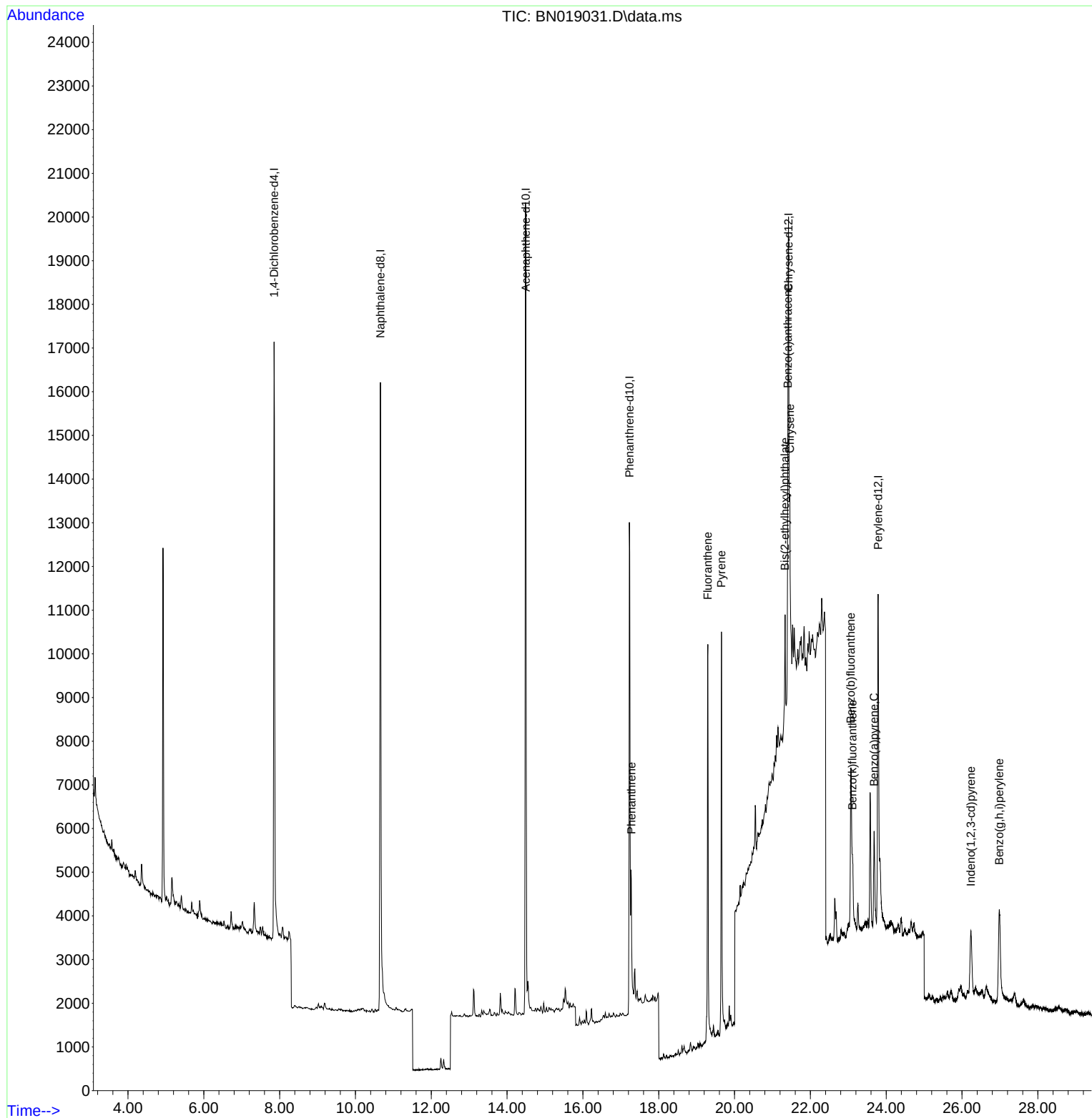
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032122\  
Data File : BN019031.D  
Acq On : 21 Mar 2022 20:19  
Operator : CG/JU  
Sample : N2007-03 10X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

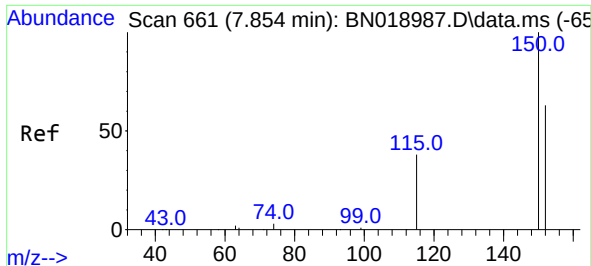
Instrument :  
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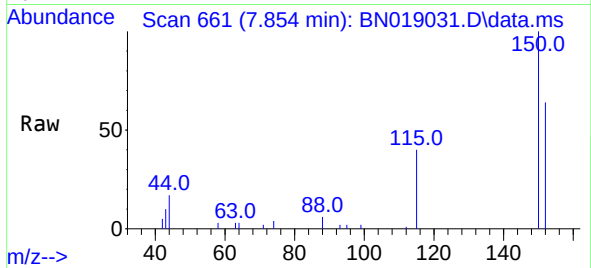
Quant Time: Mar 22 02:32:29 2022  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-SIM-BN031722.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 17 13:18:23 2022  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.854 min Scan# 661  
Delta R.T. 0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

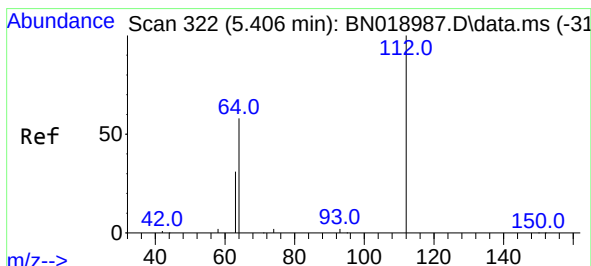
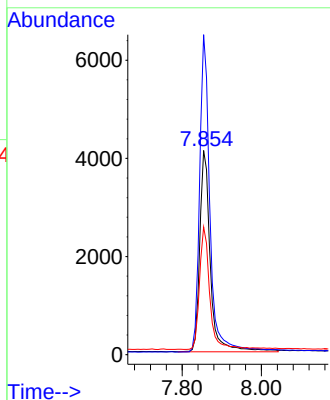
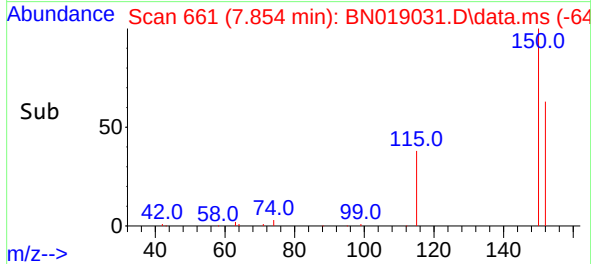
Instrument :  
BNA\_N  
ClientSampleId :  
SP3



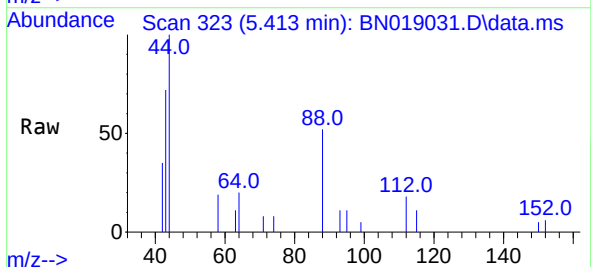
Tgt Ion:152 Resp: 761  
Ion Ratio Lower Upper  
152 100  
150 156.8 123.9 185.9  
115 62.5 48.2 72.4

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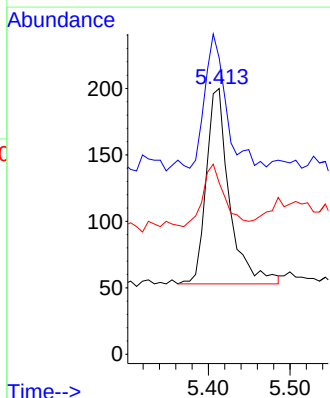
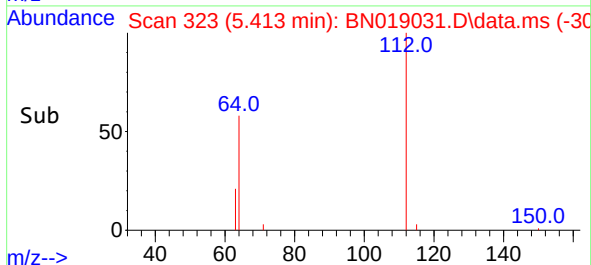
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

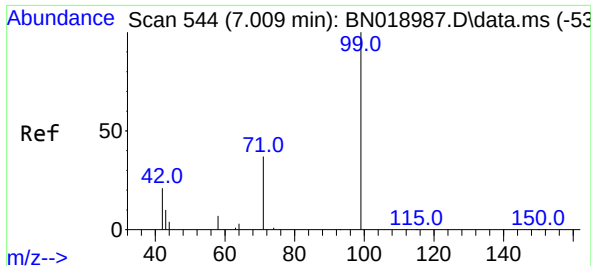


#4  
2-Fluorophenol  
Concen: 0.017 ng  
RT: 5.413 min Scan# 323  
Delta R.T. 0.007 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19



Tgt Ion:112 Resp: 291  
Ion Ratio Lower Upper  
112 100  
64 64.9 47.8 71.8  
63 29.9 25.7 38.5





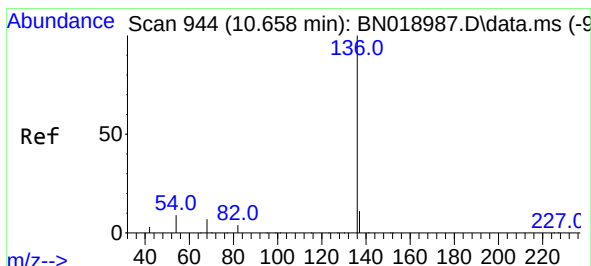
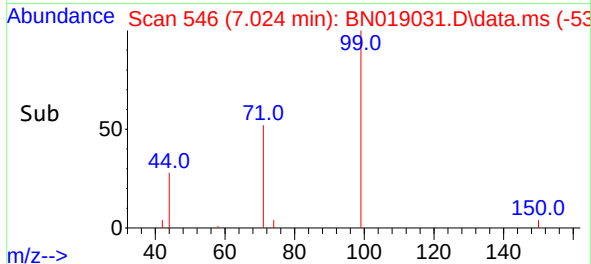
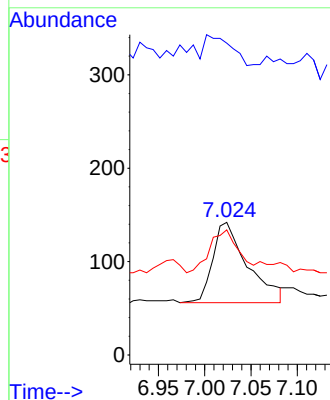
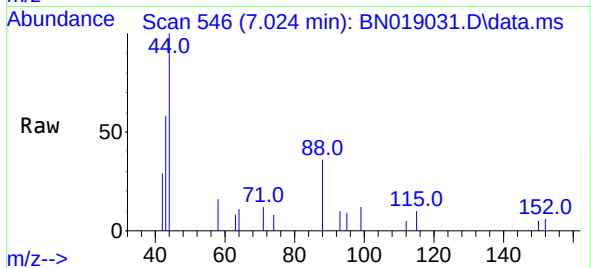
#5  
Phenol-d6  
Concen: 0.013 ng  
RT: 7.024 min Scan# 544  
Delta R.T. 0.014 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

Instrument :  
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Tgt Ion: 99 Resp: 225  
Ion Ratio Lower Upper  
99 100  
42 0.0 16.2 24.4  
71 43.6 27.7 41.5

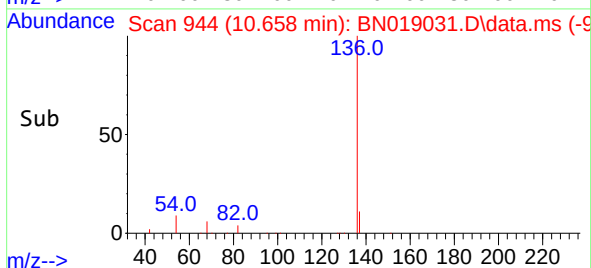
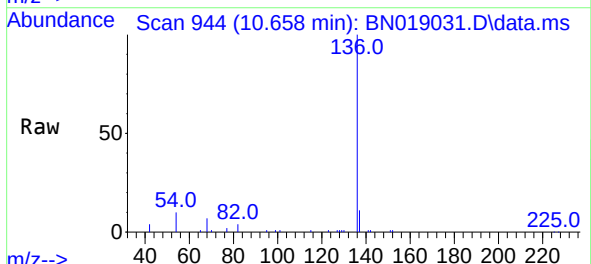
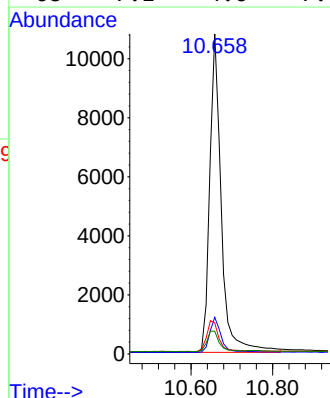
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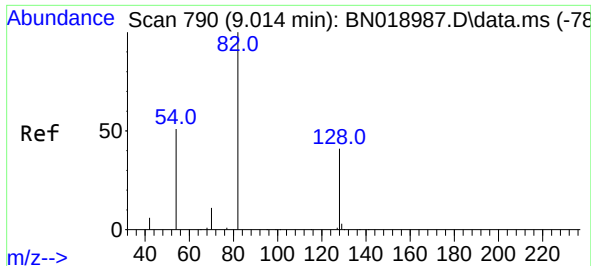
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.658 min Scan# 944  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

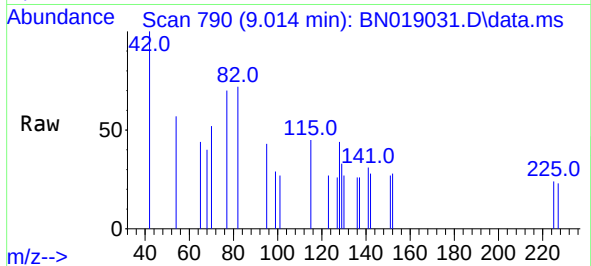
Tgt Ion:136 Resp: 21230  
Ion Ratio Lower Upper  
136 100  
137 11.5 9.0 13.4  
54 9.7 5.8 8.6  
68 7.1 4.6 7.0





#8  
Nitrobenzene-d5  
Concen: 0.010 ng  
RT: 9.014 min Scan# 790  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

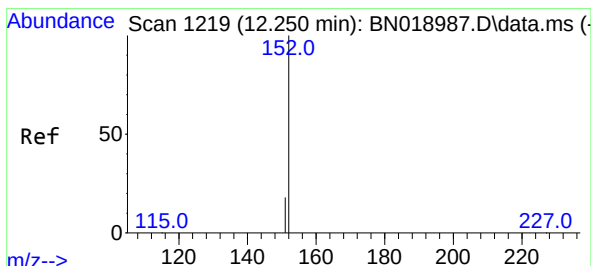
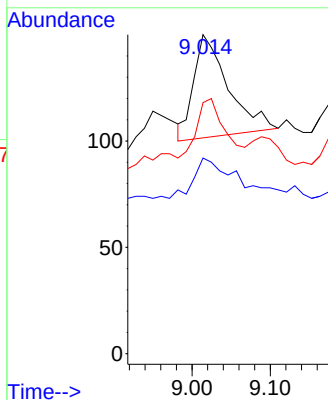
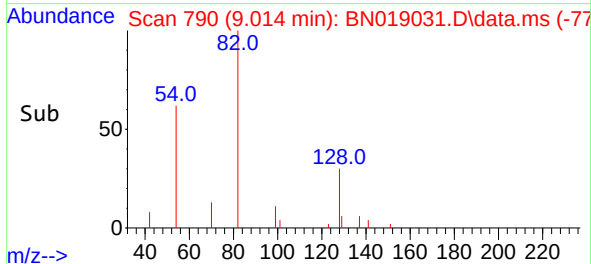
Instrument :  
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Tgt Ion: 82 Resp: 149  
Ion Ratio Lower Upper  
82 100  
128 61.3 33.0 49.6  
54 78.7 42.5 63.7

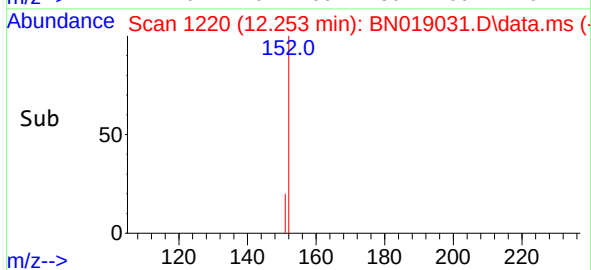
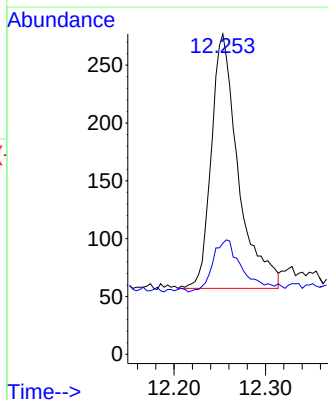
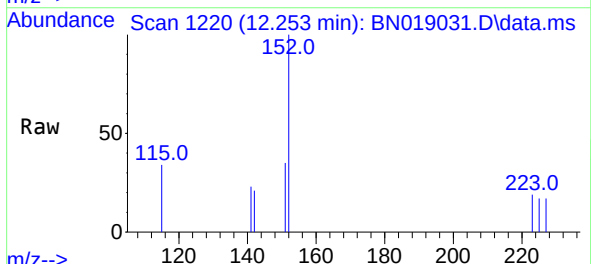
Manual Integrations  
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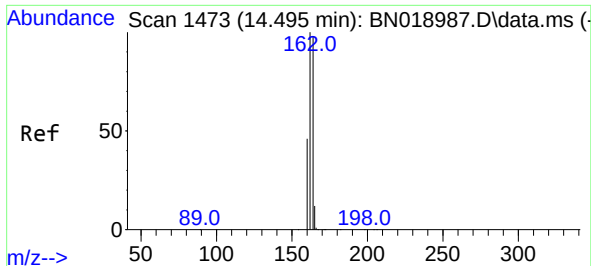
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#11  
2-Methylnaphthalene-d10  
Concen: 0.013 ng  
RT: 12.253 min Scan# 1220  
Delta R.T. 0.004 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

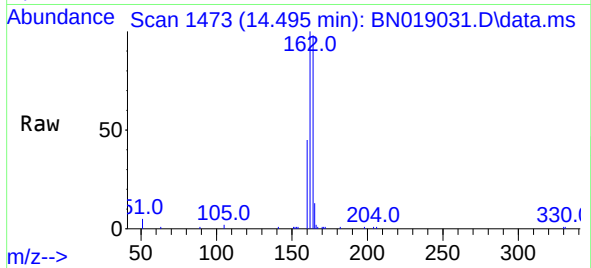
Tgt Ion:152 Resp: 451  
Ion Ratio Lower Upper  
152 100  
151 23.1 16.5 24.7





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.495 min Scan# 1473  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

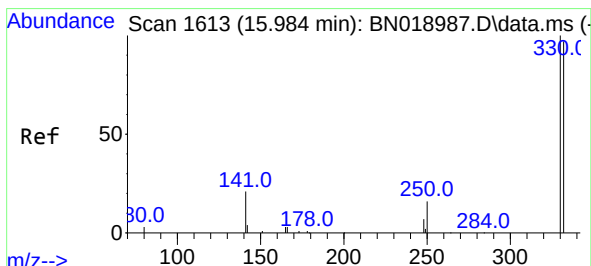
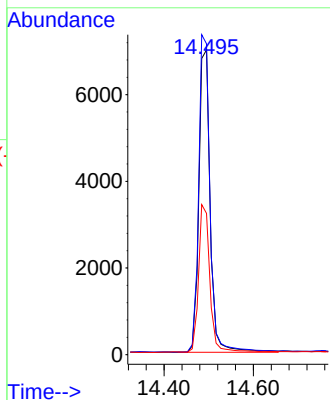
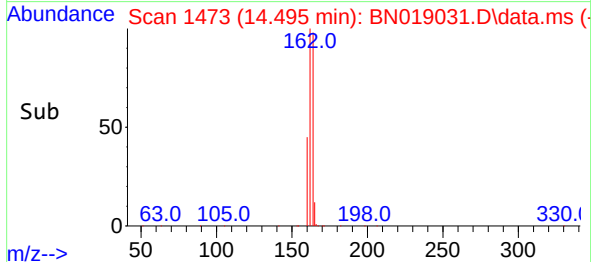
Instrument :  
BNA\_N  
ClientSampleId :  
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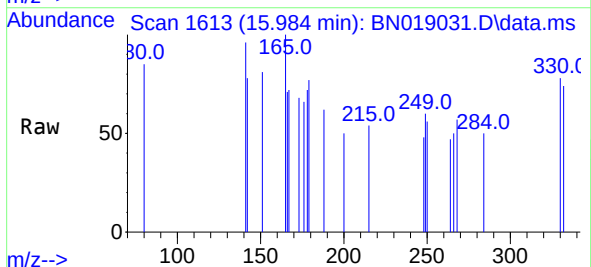
Tgt Ion:164 Resp: 12310  
Ion Ratio Lower Upper  
164 100  
162 102.0 85.2 127.8  
160 46.4 41.5 62.3

Manual Integrations  
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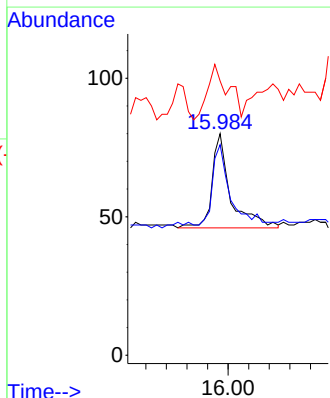
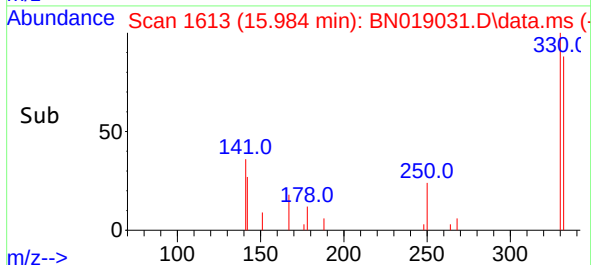
Reviewed By :Christian Giraldo 03/22/2022  
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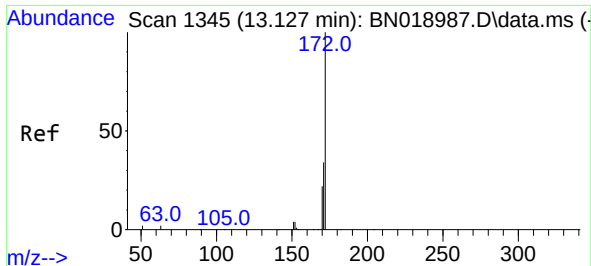


#14  
2,4,6-Tribromophenol  
Concen: 0.014 ng  
RT: 15.984 min Scan# 1613  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19



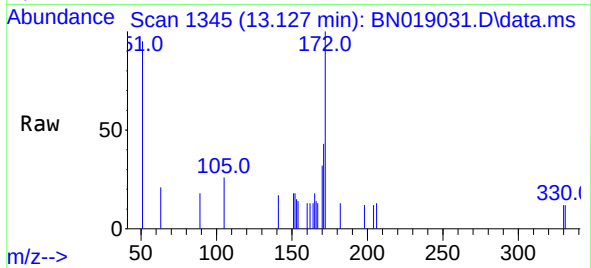
Tgt Ion:330 Resp: 85  
Ion Ratio Lower Upper  
330 100  
332 78.8 76.8 115.2  
141 64.7 32.2 48.2#





#15  
2-Fluorobiphenyl  
Concen: 0.014 ng  
RT: 13.127 min Scan# 1345  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

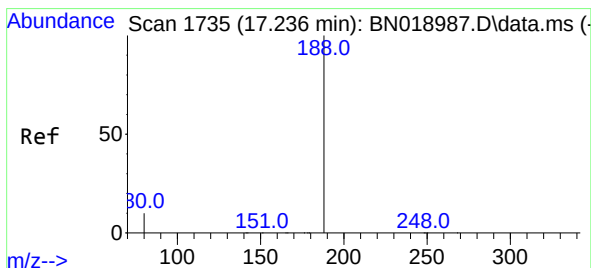
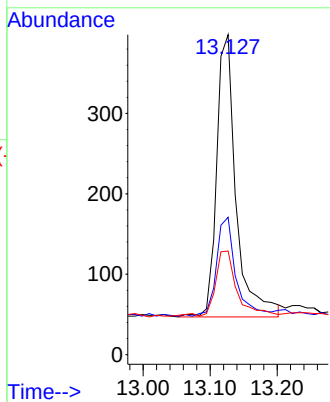
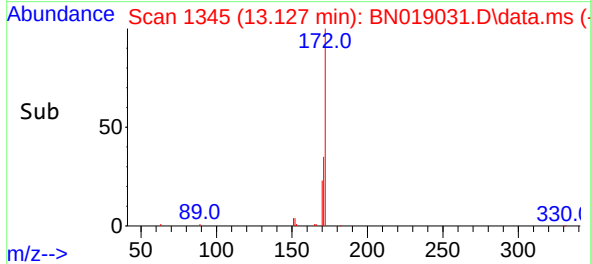
Instrument :  
BNA\_N  
ClientSampleId :  
SP3



Tgt Ion:172 Resp: 708  
Ion Ratio Lower Upper  
172 100  
171 43.0 28.2 42.2  
170 32.4 18.7 28.1

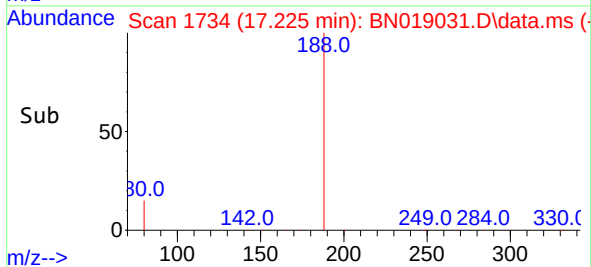
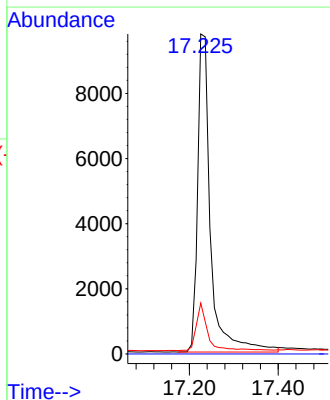
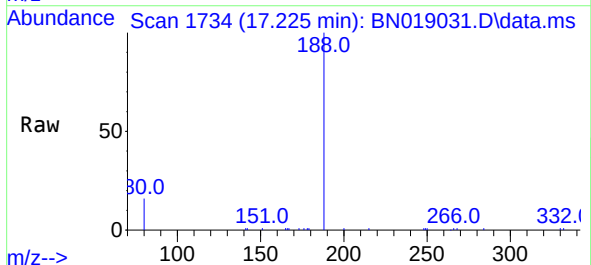
Manual Integrations  
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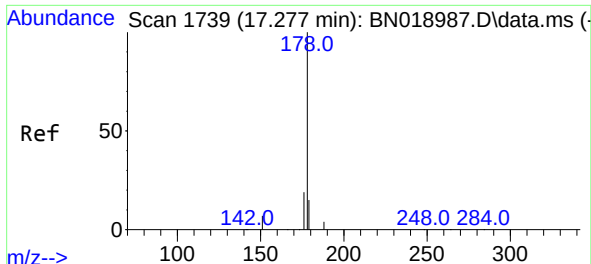
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.225 min Scan# 1734  
Delta R.T. -0.011 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

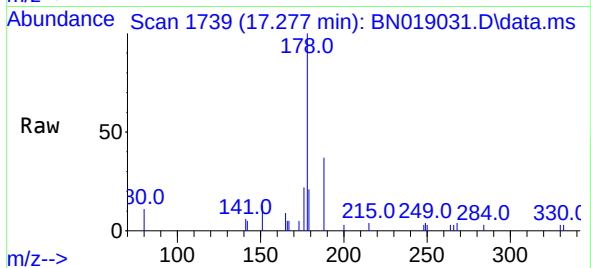
Tgt Ion:188 Resp: 19764  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 15.9 11.8 17.8





#25  
Phenanthrene  
Concen: 0.054 ng  
RT: 17.277 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

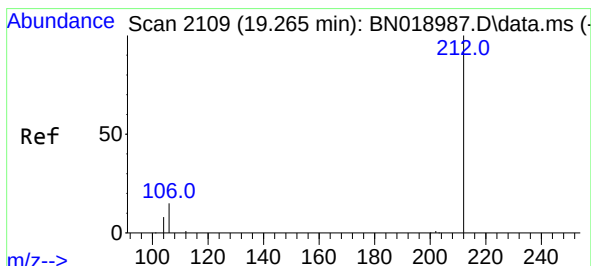
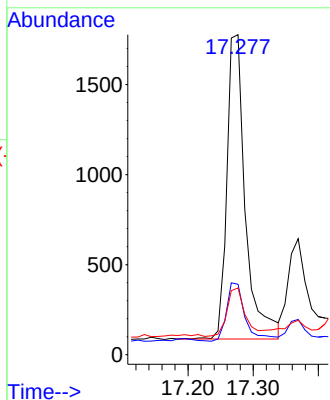
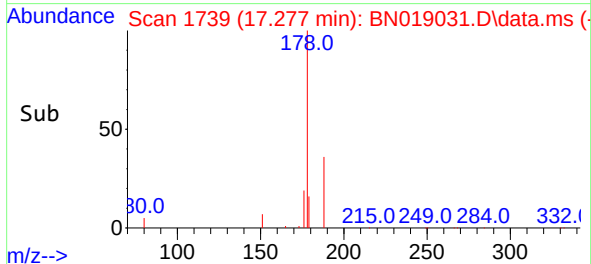
Instrument :  
BNA\_N  
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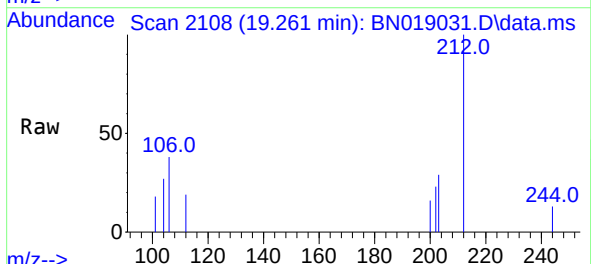
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176 19.6 15.4 23.0  
179 16.0 12.2 18.2

Manual Integrations  
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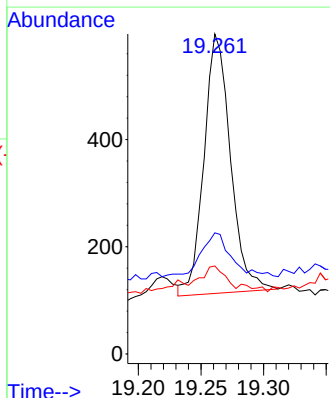
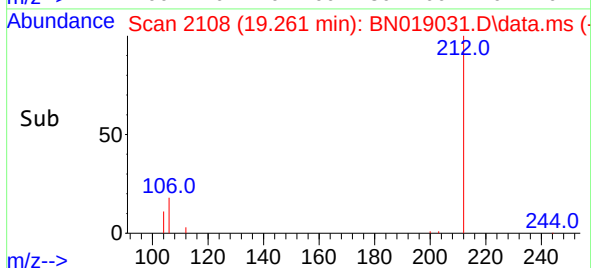
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



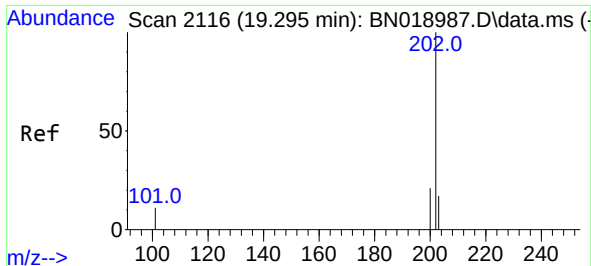
#27  
Fluoranthene-d10  
Concen: 0.012 ng  
RT: 19.261 min Scan# 2108  
Delta R.T. -0.004 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19



Tgt Ion:212 Resp: 713  
Ion Ratio Lower Upper  
212 100  
106 21.7 12.7 19.1#  
104 7.9 7.1 10.7

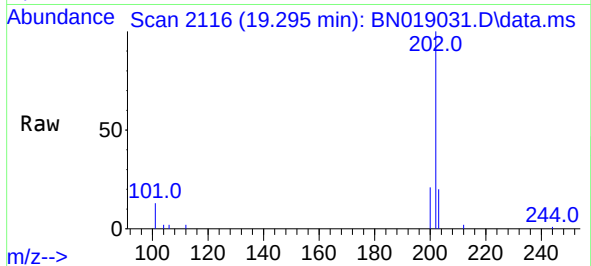






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Fluoranthene  
Concen: 0.134 ng  
RT: 19.295 min Scan# 2116  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

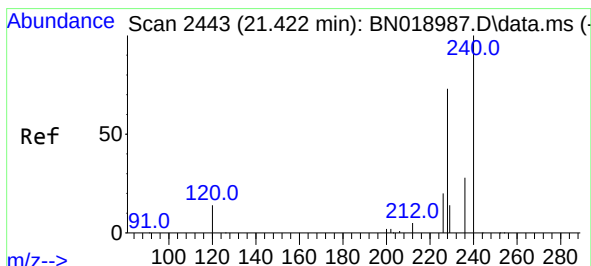
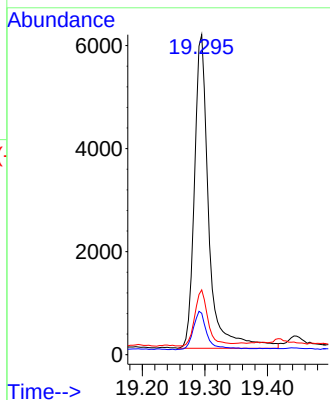
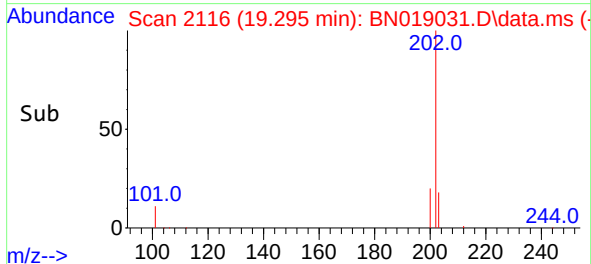
Instrument :  
BNA\_N  
ClientSampleId :  
SP3



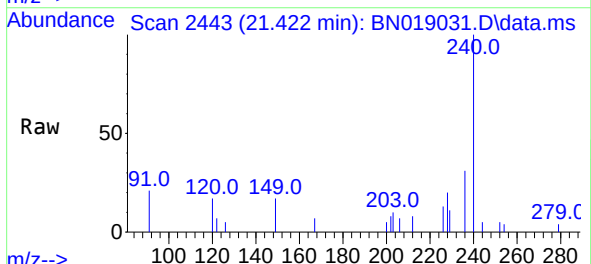
Tgt Ion:202 Resp: 9690  
Ion Ratio Lower Upper  
202 100  
101 12.2 9.8 14.6  
203 16.6 13.7 20.5

Manual Integrations  
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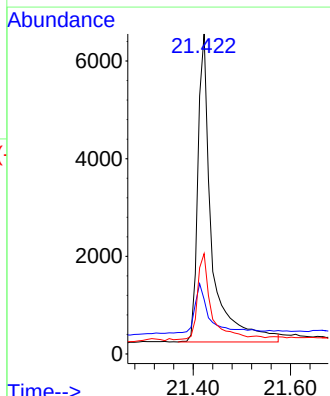
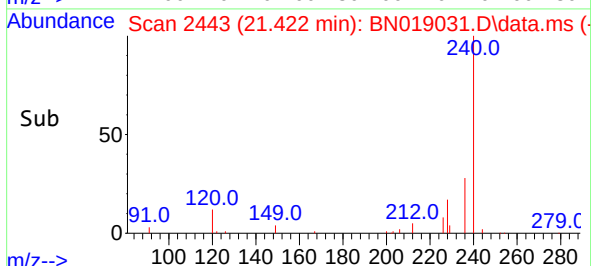
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

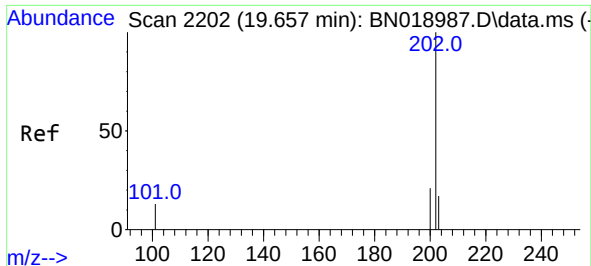


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.422 min Scan# 2443  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19



Tgt Ion:240 Resp: 12508  
Ion Ratio Lower Upper  
240 100  
120 17.0 8.5 12.7#  
236 31.4 22.4 33.6





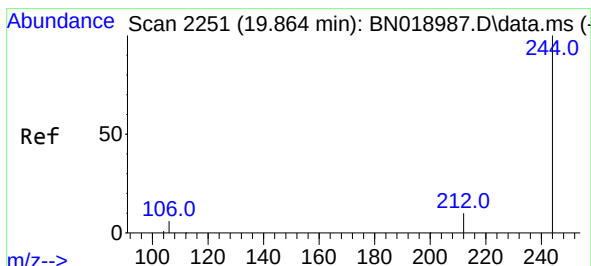
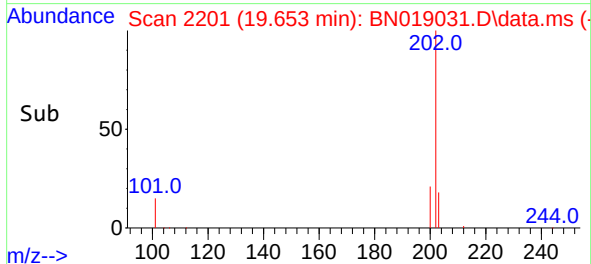
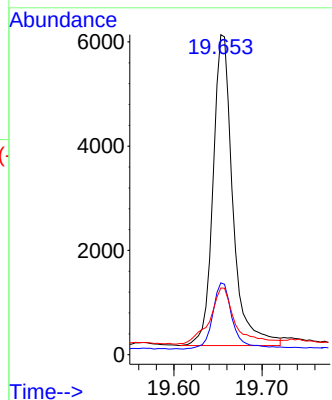
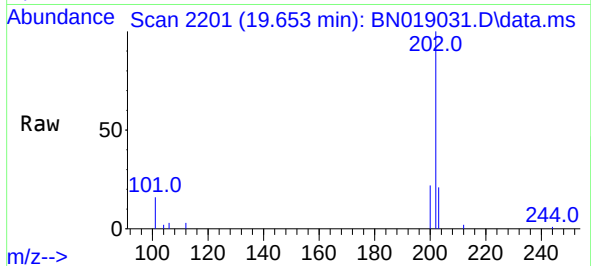
#30  
Pyrene  
Concen: 0.149 ng  
RT: 19.653 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

Instrument :  
BNA\_N  
ClientSampleId :  
SP3

Tgt Ion:202 Resp: 931  
Ion Ratio Lower Upper  
202 100  
200 21.7 16.9 25.3  
203 23.3 14.2 21.2

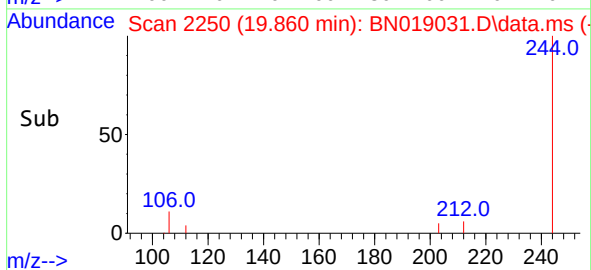
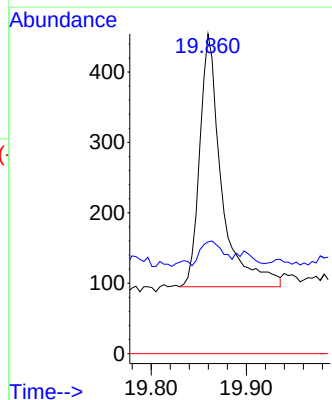
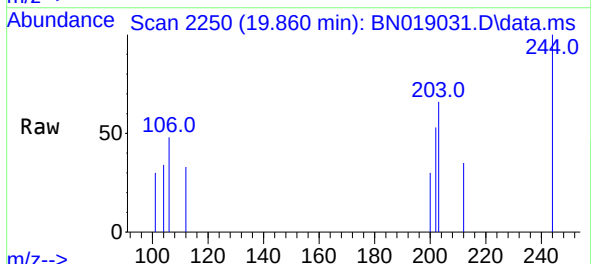
Manual Integrations  
APPROVED

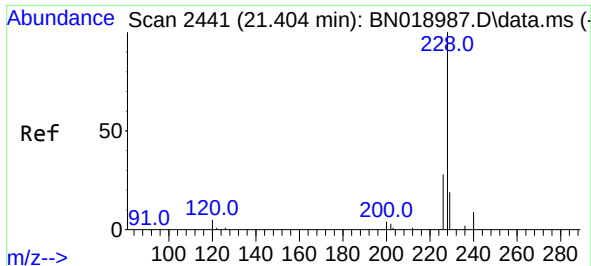
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#31  
Terphenyl-d14  
Concen: 0.019 ng  
RT: 19.860 min Scan# 2250  
Delta R.T. -0.004 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

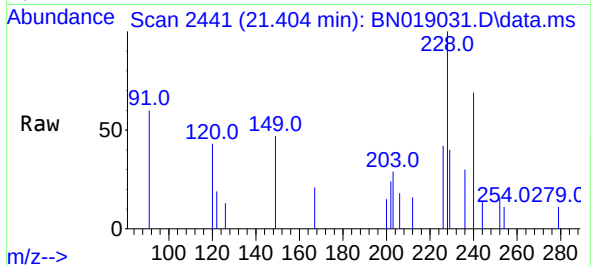
Tgt Ion:244 Resp: 574  
Ion Ratio Lower Upper  
244 100  
212 35.0 8.2 12.4#  
122 0.0 0.0 0.0





#32  
Benzo(a)anthracene  
Concen: 0.097 ng  
RT: 21.404 min Scan# 2441  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

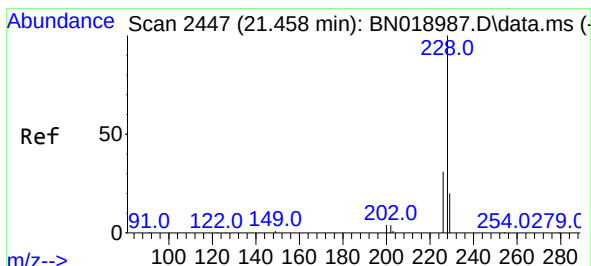
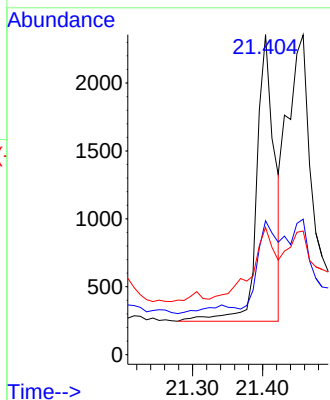
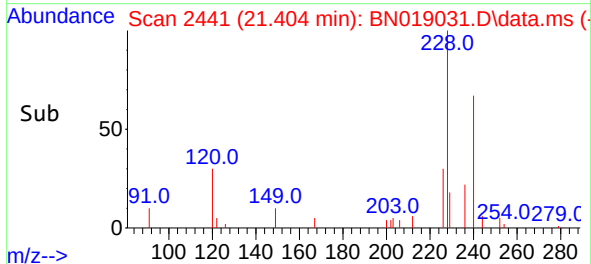
Instrument :  
BNA\_N  
ClientSampleId :  
SP3



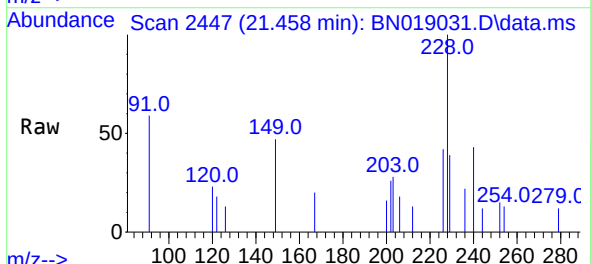
Tgt Ion:228 Resp: 372  
Ion Ratio Lower Upper  
228 100  
226 41.9 21.9 32.9#  
229 39.8 16.0 24.0#

Manual Integrations  
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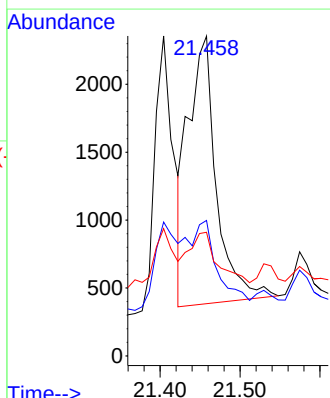
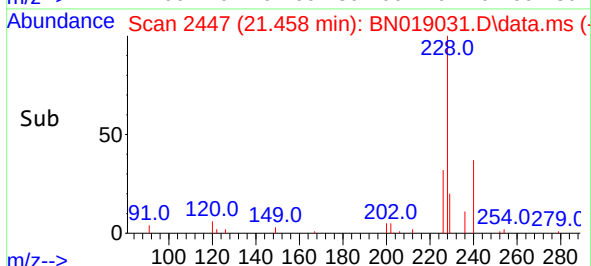
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

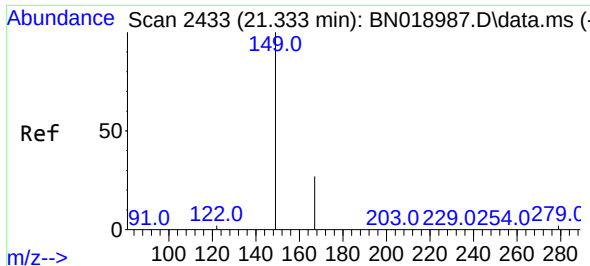


#33  
Chrysene  
Concen: 0.093 ng  
RT: 21.458 min Scan# 2447  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19



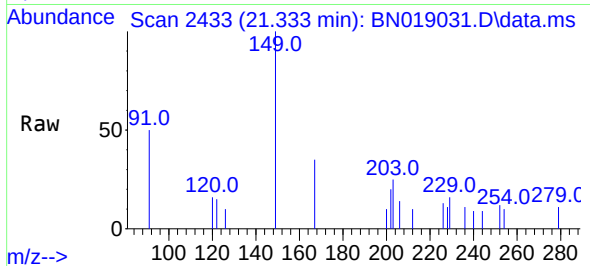
Tgt Ion:228 Resp: 4856  
Ion Ratio Lower Upper  
228 100  
226 42.4 24.0 36.0#  
229 38.6 15.9 23.9#





#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.088 ng  
RT: 21.333 min Scan# 2433  
Delta R.T. -0.000 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

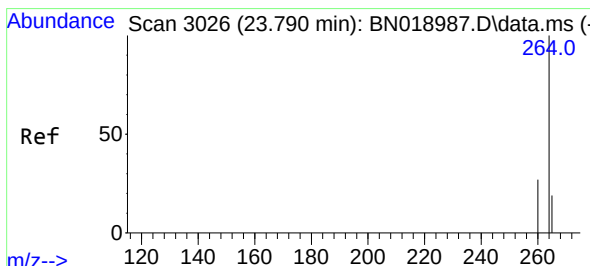
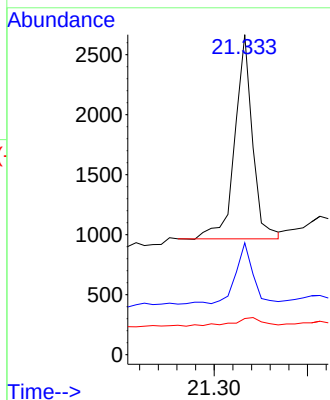
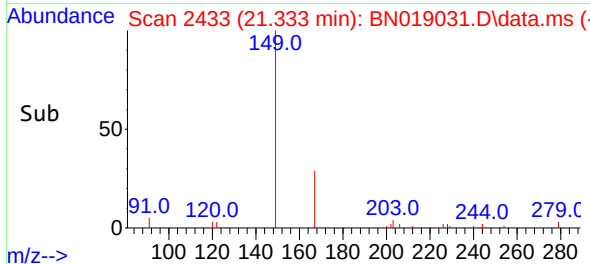
Instrument :  
BNA\_N  
ClientSampleId :  
SP3



Tgt Ion:149 Resp: 224  
Ion Ratio Lower Upper  
149 100  
167 30.0 21.8 32.8  
279 7.1 2.0 3.0

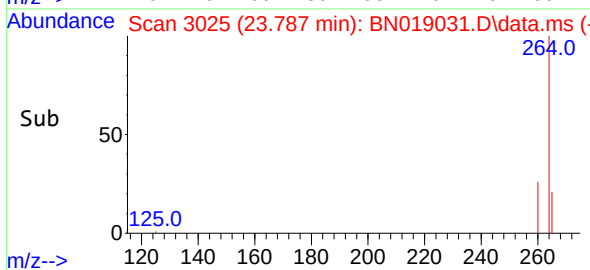
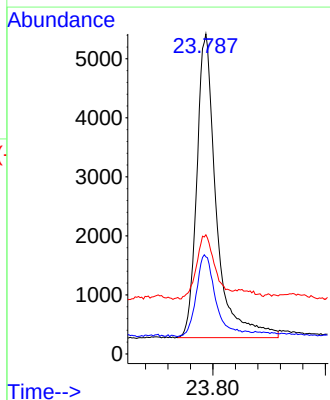
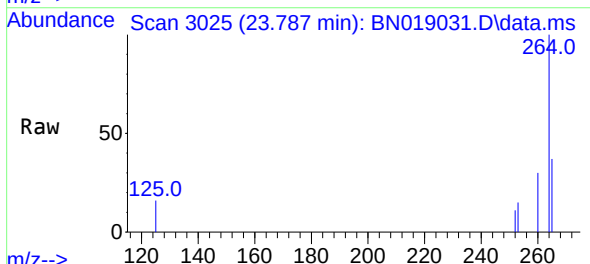
Manual Integrations  
APPROVED

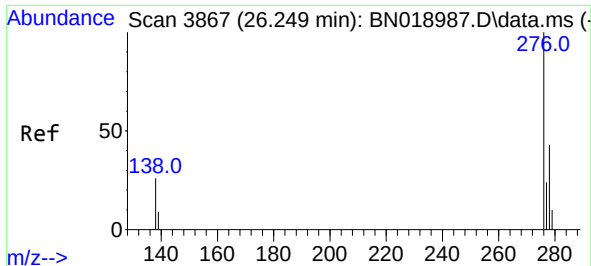
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.787 min Scan# 3025  
Delta R.T. -0.003 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

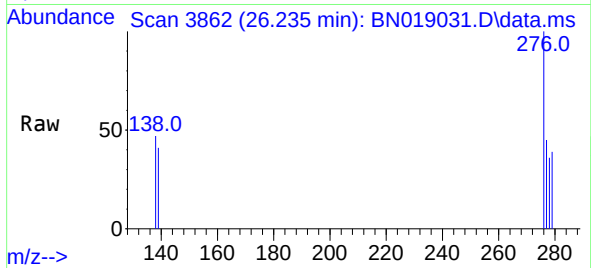
Tgt Ion:264 Resp: 12420  
Ion Ratio Lower Upper  
264 100  
260 30.3 22.4 33.6  
265 37.3 25.3 37.9





#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.068 ng  
RT: 26.235 min Scan# 3862  
Delta R.T. -0.015 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

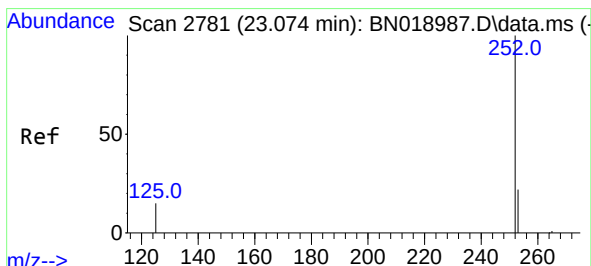
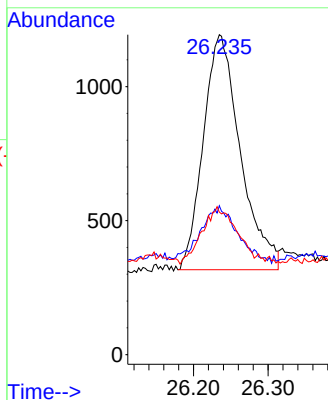
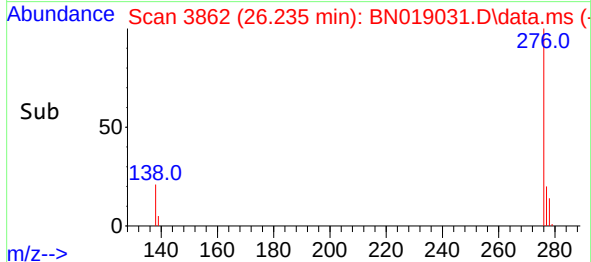
Instrument :  
BNA\_N  
ClientSampleId :  
SP3



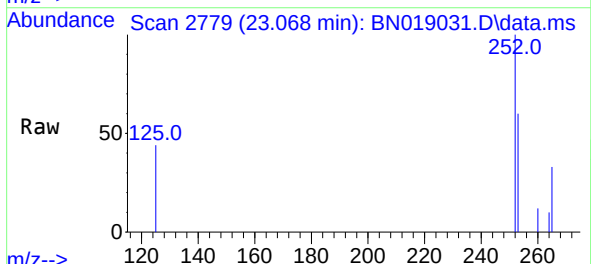
Tgt Ion:276 Resp: 3030  
Ion Ratio Lower Upper  
276 100  
138 22.1 24.5 36.7#  
277 22.7 19.8 29.8#

Manual Integrations  
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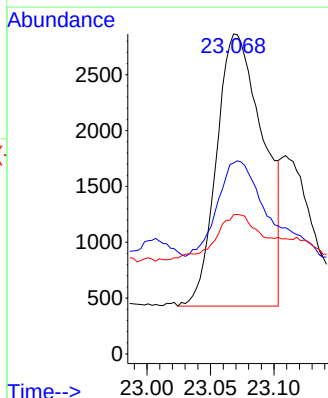
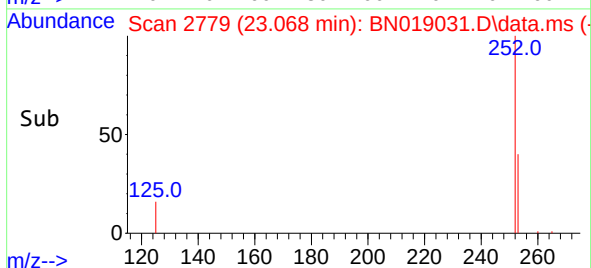
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022

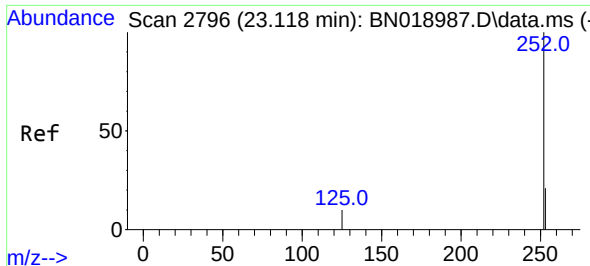


#37  
Benzo(b)fluoranthene  
Concen: 0.138 ng  
RT: 23.068 min Scan# 2779  
Delta R.T. -0.006 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19



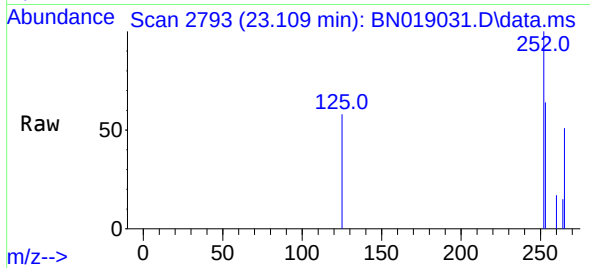
Tgt Ion:252 Resp: 6233  
Ion Ratio Lower Upper  
252 100  
253 59.7 18.9 28.3#  
125 43.5 12.1 18.1#





#38  
Benzo(k)fluoranthene  
Concen: 0.040 ng m  
RT: 23.109 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

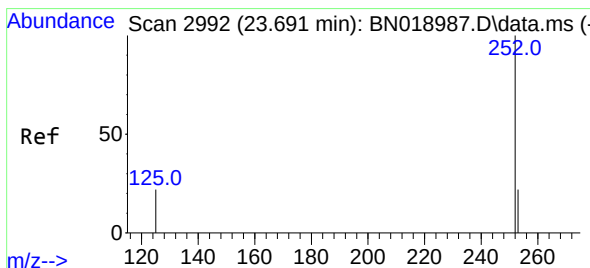
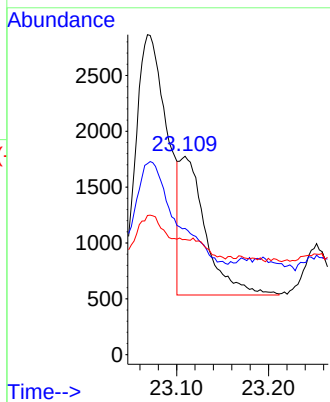
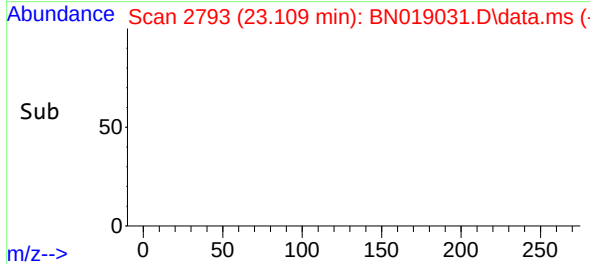
Instrument :  
BNA\_N  
ClientSampleId :  
SP3



Tgt Ion:252 Resp: 246  
Ion Ratio Lower Upper  
252 100  
253 63.6 18.9 28.3#  
125 58.0 10.3 15.5#

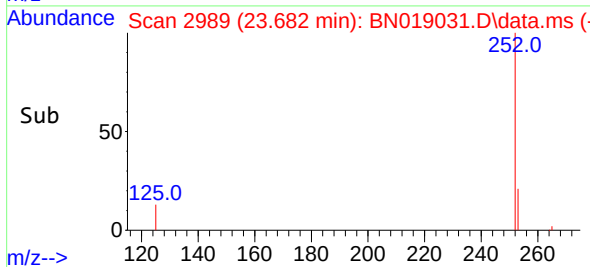
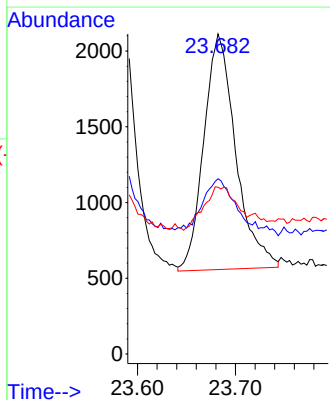
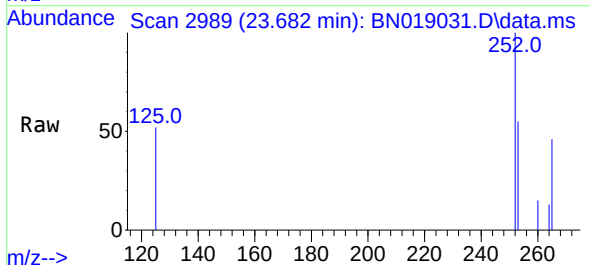
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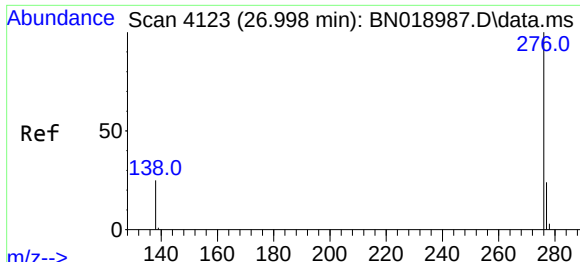
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/23/2022



#39  
Benzo(a)pyrene  
Concen: 0.085 ng  
RT: 23.682 min Scan# 2989  
Delta R.T. -0.009 min  
Lab File: BN019031.D  
Acq: 21 Mar 2022 20:19

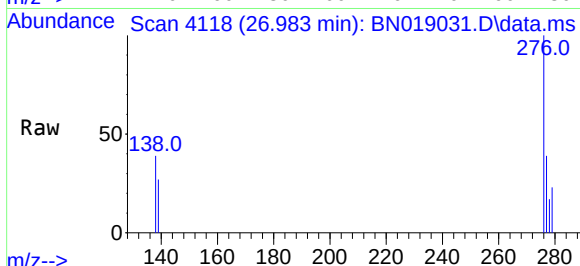
Tgt Ion:252 Resp: 3521  
Ion Ratio Lower Upper  
252 100  
253 54.8 20.1 30.1#  
125 52.1 15.2 22.8#





#41  
 Benzo(g,h,i)perylene  
 Concen: 0.124 ng  
 RT: 26.983 min Scan# 41  
 Delta R.T. -0.015 min  
 Lab File: BN019031.D  
 Acq: 21 Mar 2022 20:19

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP3



Tgt Ion: 276 Resp: 547

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 39.1  | 19.4  | 29.0  |
| 138 | 38.6  | 21.0  | 31.6  |

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/22/2022  
 Supervised By : Jagrut Upadhyay 03/23/2022

