

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120922\  
 Data File : BN023108.D  
 Acq On : 09 Dec 2022 15:47  
 Operator : CG/JU  
 Sample : N4955-02  
 Misc : LOQ-SOIL-0.2ppm  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2022

Quant Time: Dec 10 03:24:33 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN120822.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 10 03:22:51 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/10/2022  
 Supervised By :Jagrut Upadhyay 12/13/2022

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.020  | 152  | 6988     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.840 | 136  | 20570    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.666 | 164  | 10623    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.402 | 188  | 22938    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.589 | 240  | 18554    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 24.056 | 264  | 16716    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.558  | 112  | 4079     | 0.313 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.168  | 99   | 5046     | 0.305 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.185  | 82   | 3637     | 0.268 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.423 | 152  | 13381    | 0.384 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.148 | 330  | 1092     | 0.283 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.287 | 172  | 12300    | 0.290 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.435 | 212  | 24492    | 0.456 | ng    | 0.00     |
| 31) Terphenyl-d14             | 20.031 | 244  | 8239     | 0.274 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.398  | 88   | 1499     | 0.217 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.738  | 42   | 1262     | 0.186 | ng    | 99       |
| 6) bis(2-Chloroethyl)ether    | 7.435  | 93   | 4261     | 0.227 | ng    | 100      |
| 9) Naphthalene                | 10.893 | 128  | 10936    | 0.209 | ng    | 99       |
| 10) Hexachlorobutadiene       | 11.181 | 225  | 2195     | 0.220 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.117 | 142  | 1544     | 0.198 | ng    | # 91     |
| 16) Acenaphthylene            | 14.388 | 152  | 8380     | 0.196 | ng    | 100      |
| 17) Acenaphthene              | 14.730 | 154  | 6340     | 0.202 | ng    | 98       |
| 18) Fluorene                  | 15.703 | 166  | 6894     | 0.196 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.776 | 198  | 462      | 0.141 | ng    | # 67     |
| 21) 4-Bromophenyl-phenylether | 16.595 | 248  | 2522     | 0.206 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.719 | 284  | 3386     | 0.211 | ng    | 98       |
| 23) Atrazine                  | 16.868 | 200  | 1584     | 0.184 | ng    | 95       |
| 24) Pentachlorophenol         | 17.054 | 266  | 868      | 0.156 | ng    | 99       |
| 25) Phenanthrene              | 17.452 | 178  | 13380    | 0.196 | ng    | 100      |
| 26) Anthracene                | 17.538 | 178  | 10467    | 0.192 | ng    | 100      |
| 28) Fluoranthene              | 19.469 | 202  | 14243    | 0.195 | ng    | 99       |
| 30) Pyrene                    | 19.831 | 202  | 13838    | 0.204 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.580 | 228  | 11301    | 0.189 | ng    | 99       |
| 33) Chrysene                  | 21.634 | 228  | 13837    | 0.206 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.500 | 149  | 5211     | 0.206 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.626 | 276  | 16391    | 0.219 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 23.302 | 252  | 14384m   | 0.208 | ng    |          |
| 38) Benzo(k)fluoranthene      | 23.349 | 252  | 13607    | 0.193 | ng    | 94       |
| 39) Benzo(a)pyrene            | 23.945 | 252  | 13047    | 0.251 | ng    | # 78     |
| 40) Dibenzo(a,h)anthracene    | 26.649 | 278  | 13119    | 0.218 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 27.415 | 276  | 12636    | 0.197 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

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

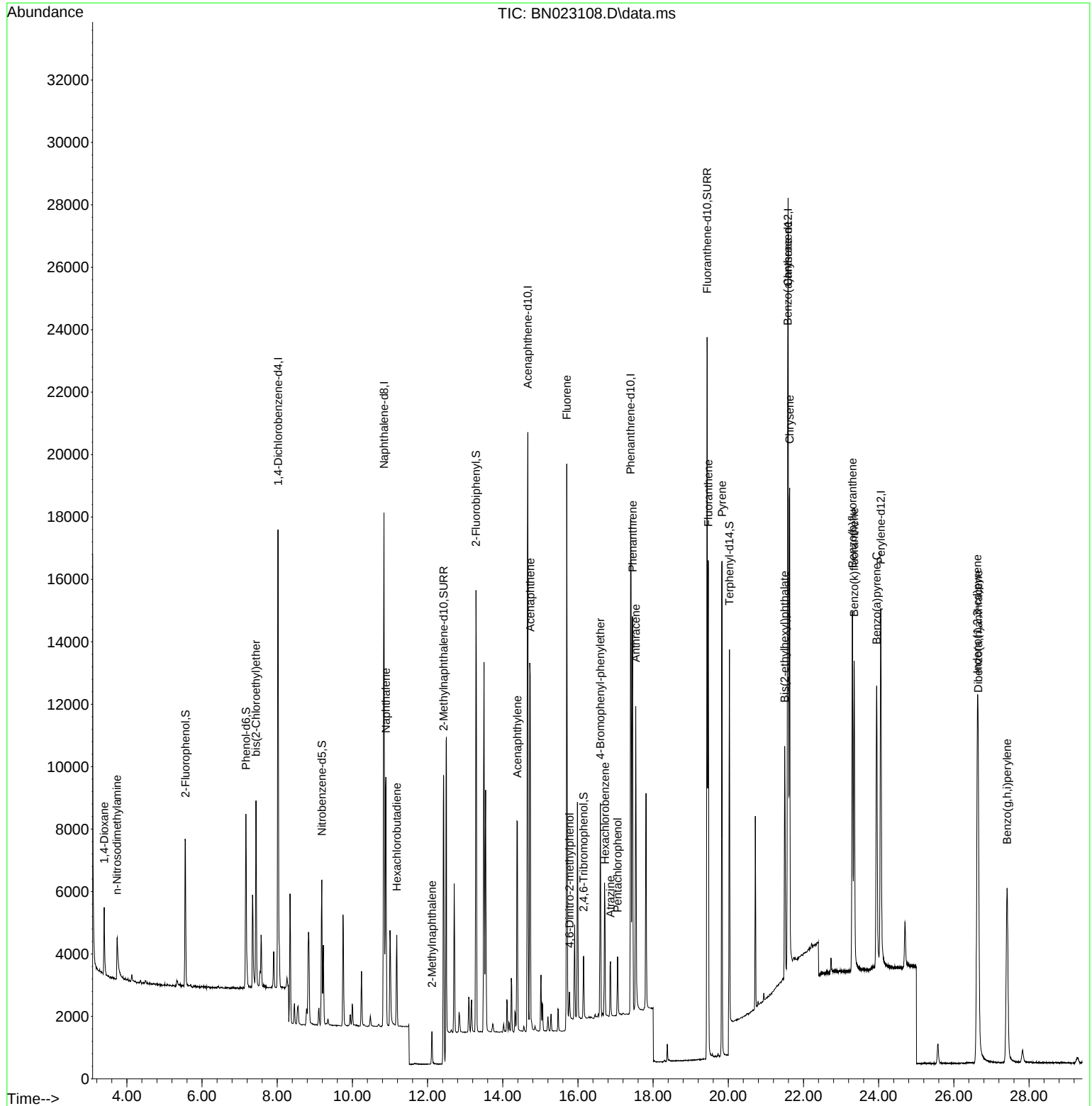
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120922\  
Data File : BN023108.D  
Acq On : 09 Dec 2022 15:47  
Operator : CG/JU  
Sample : N4955-02  
Misc : LOQ-SOIL-0.2ppm  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022

Quant Time: Dec 10 03:24:33 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN120822.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 10 03:22:51 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

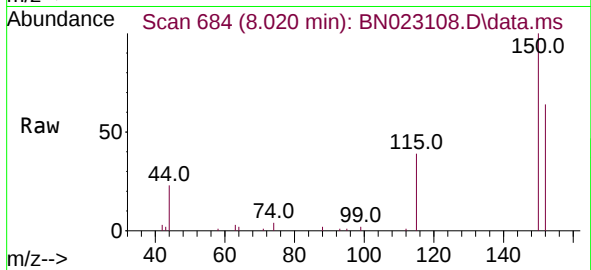
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 8.020 min Scan# 684  
 Delta R.T. 0.000 min  
 Lab File: BN023108.D  
 Acq: 09 Dec 2022 15:47

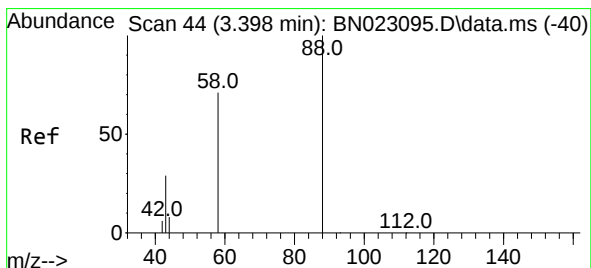
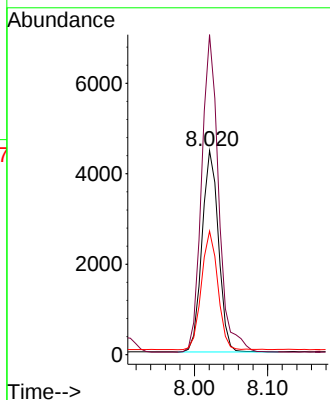
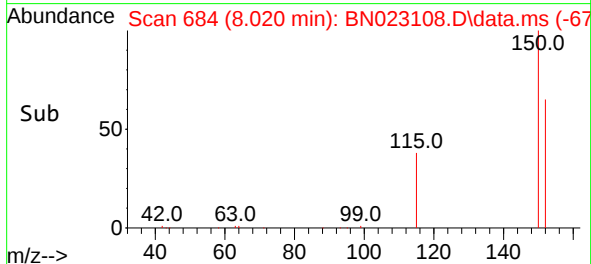
Instrument :  
 BNA\_N  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2022



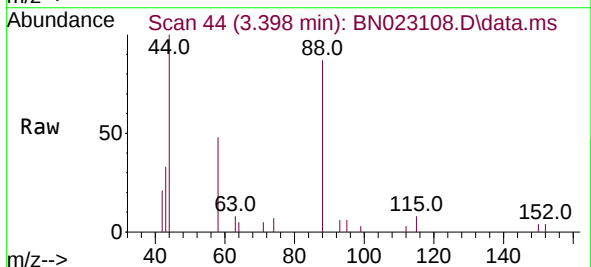
Tgt Ion: 152 Resp: 6988  
 Ion Ratio Lower Upper  
 152 100  
 150 156.9 125.6 188.4  
 115 60.5 49.0 73.4

Manual Integrations  
 APPROVED

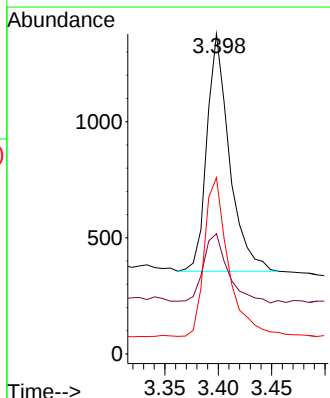
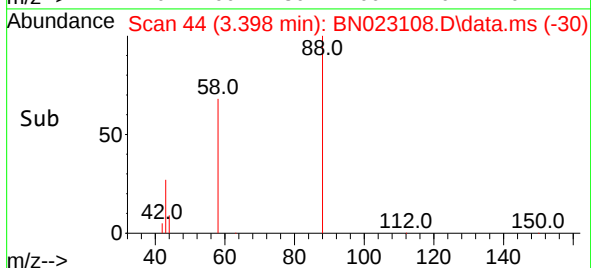
Reviewed By :Christian Giraldo 12/10/2022  
 Supervised By :Jagrut Upadhyay 12/13/2022



#2  
 1,4-Dioxane  
 Concen: 0.217 ng  
 RT: 3.398 min Scan# 44  
 Delta R.T. 0.000 min  
 Lab File: BN023108.D  
 Acq: 09 Dec 2022 15:47



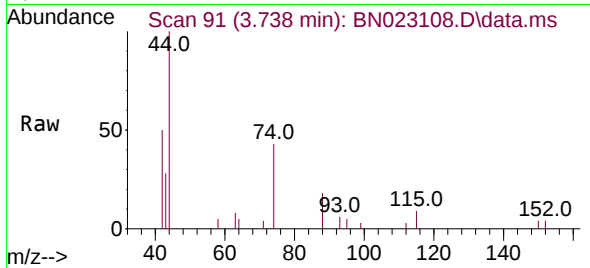
Tgt Ion: 88 Resp: 1499  
 Ion Ratio Lower Upper  
 88 100  
 43 32.2 23.3 34.9  
 58 71.4 58.0 87.0





#3  
n-Nitrosodimethylamine  
Concen: 0.186 ng  
RT: 3.738 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

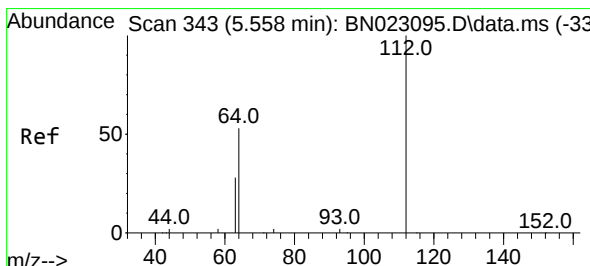
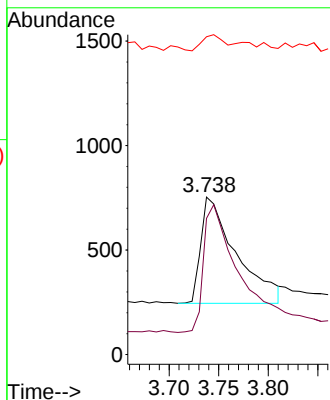
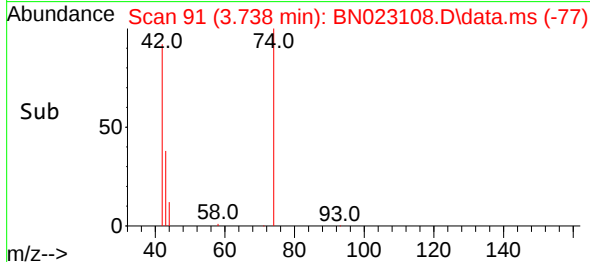
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion: 42 Resp: 1262  
Ion Ratio Lower Upper  
42 100  
74 121.1 95.8 143.6  
44 10.1 8.4 12.6

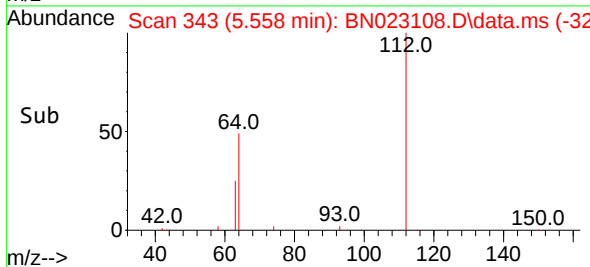
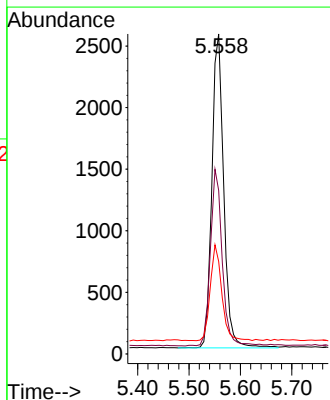
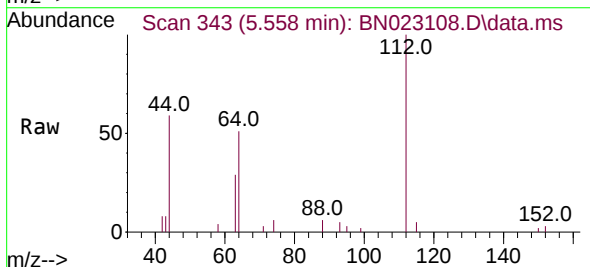
Manual Integrations  
APPROVED

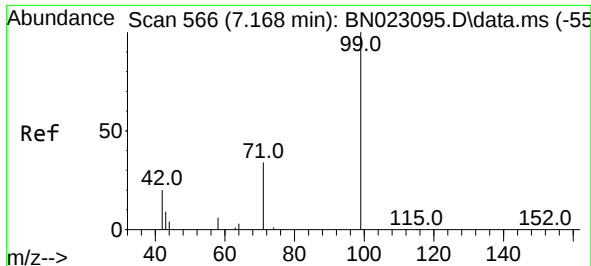
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#4  
2-Fluorophenol  
Concen: 0.313 ng  
RT: 5.558 min Scan# 343  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

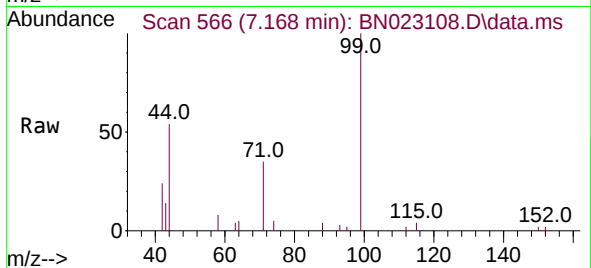
Tgt Ion:112 Resp: 4079  
Ion Ratio Lower Upper  
112 100  
64 56.7 44.4 66.6  
63 29.7 23.7 35.5





#5  
Phenol-d6  
Concen: 0.305 ng  
RT: 7.168 min Scan# 566  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

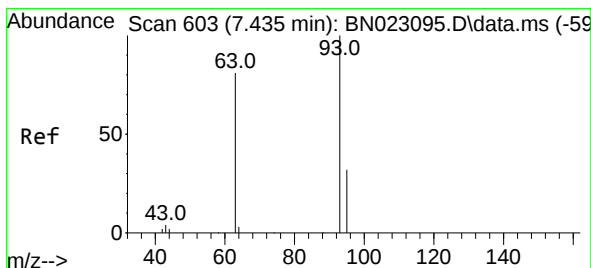
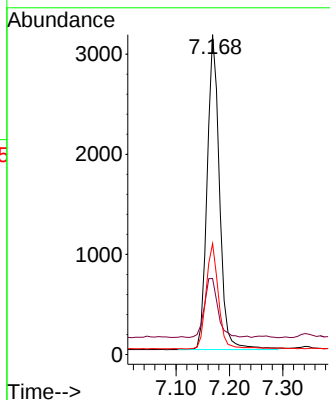
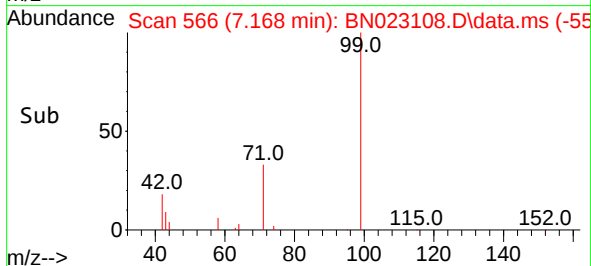
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion: 99 Resp: 5046  
Ion Ratio Lower Upper  
99 100  
42 20.6 16.3 24.5  
71 33.5 26.5 39.7

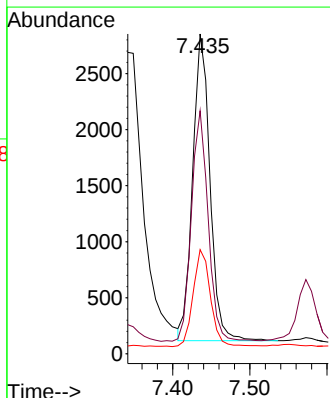
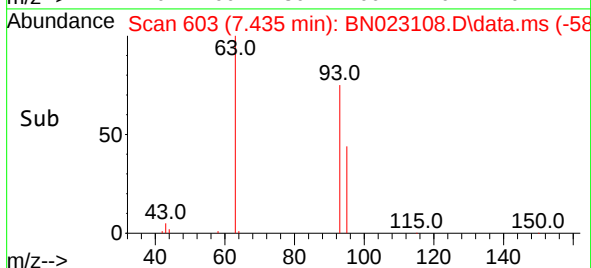
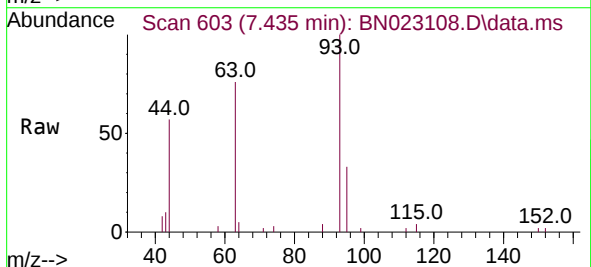
Manual Integrations  
APPROVED

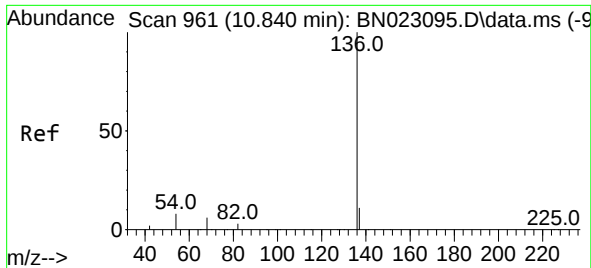
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#6  
bis(2-Chloroethyl)ether  
Concen: 0.227 ng  
RT: 7.435 min Scan# 603  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

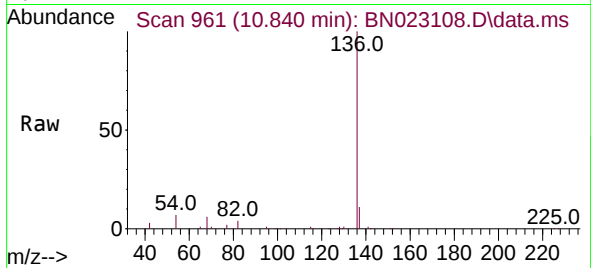
Tgt Ion: 93 Resp: 4261  
Ion Ratio Lower Upper  
93 100  
63 72.8 58.1 87.1  
95 31.9 25.2 37.8





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.840 min Scan# 961  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

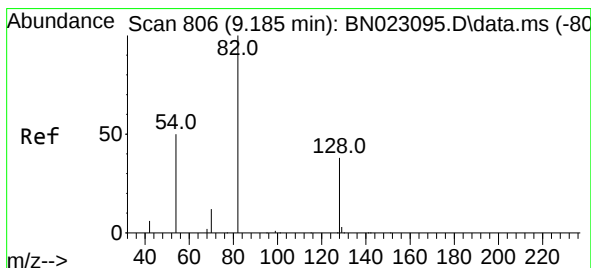
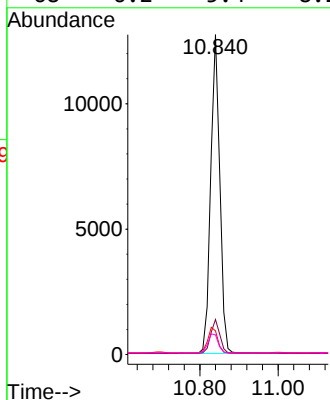
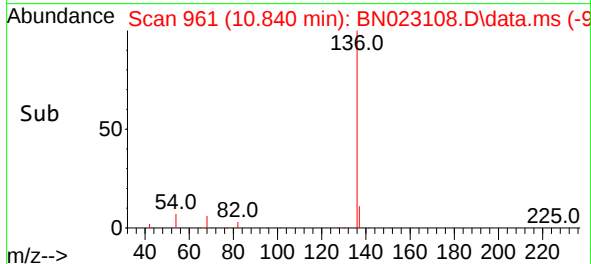
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.0  | 9.0   | 13.4  |
| 54      | 7.4   | 6.5   | 9.7   |
| 68      | 6.2   | 5.4   | 8.2   |

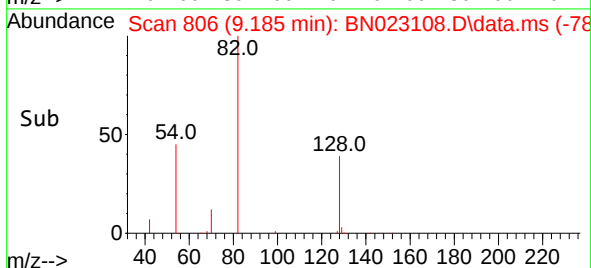
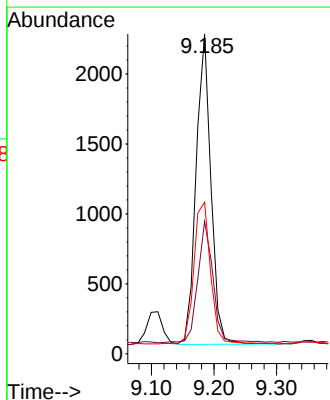
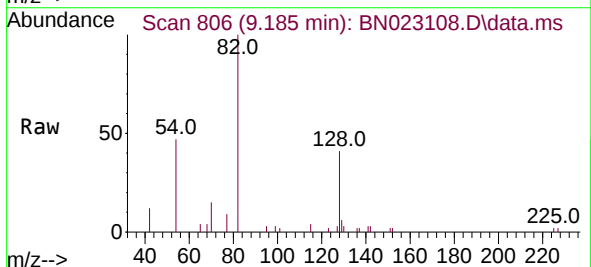
Manual Integrations  
APPROVED

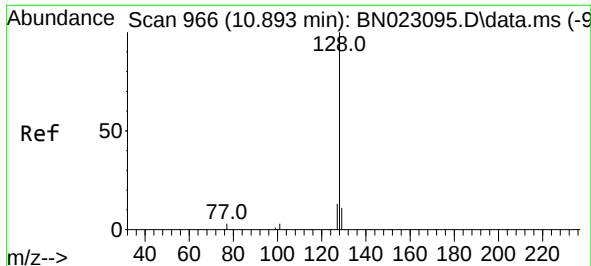
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#8  
Nitrobenzene-d5  
Concen: 0.268 ng  
RT: 9.185 min Scan# 806  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

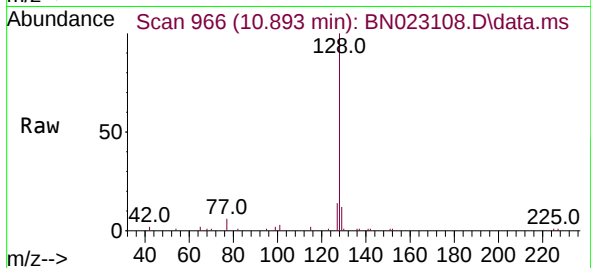
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.4  | 31.4  | 47.2  |
| 54      | 47.4  | 41.0  | 61.4  |





#9  
Naphthalene  
Concen: 0.209 ng  
RT: 10.893 min Scan# 966  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

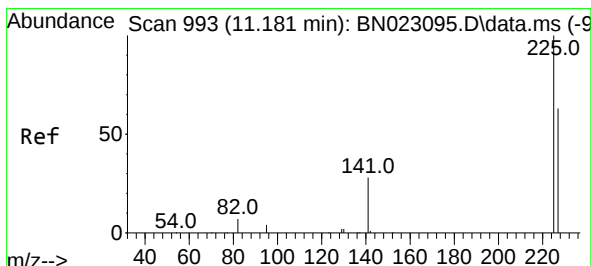
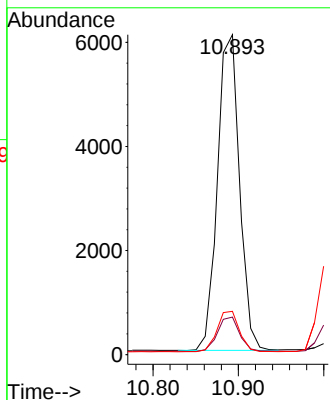
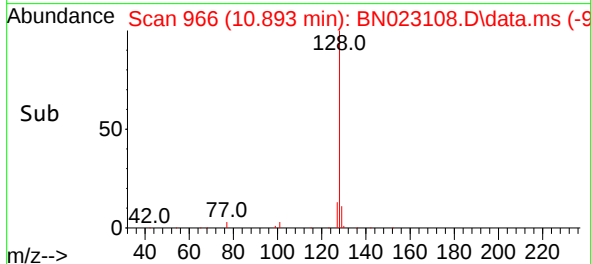
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion:128 Resp: 10936  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.0 13.6  
127 13.5 10.5 15.7

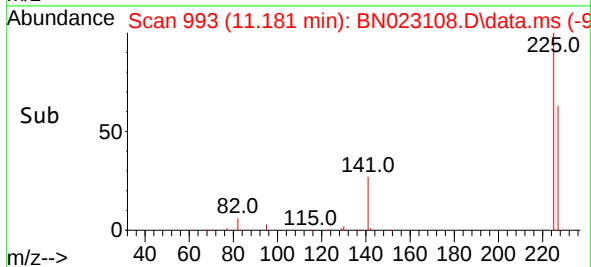
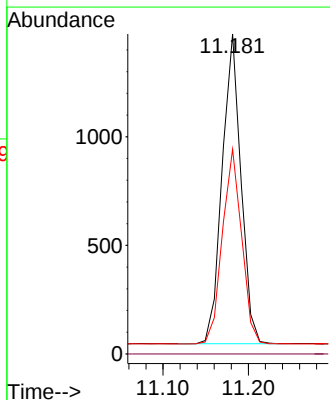
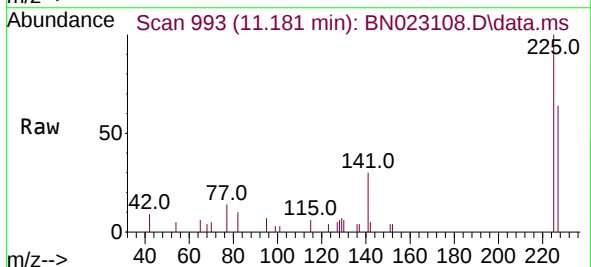
Manual Integrations  
APPROVED

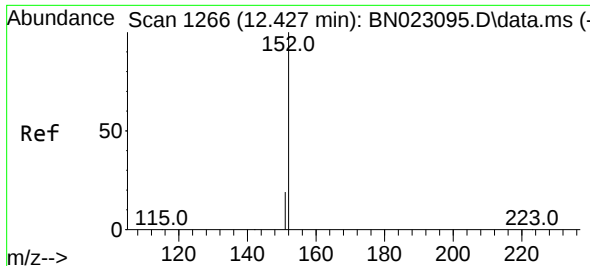
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#10  
Hexachlorobutadiene  
Concen: 0.220 ng  
RT: 11.181 min Scan# 993  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

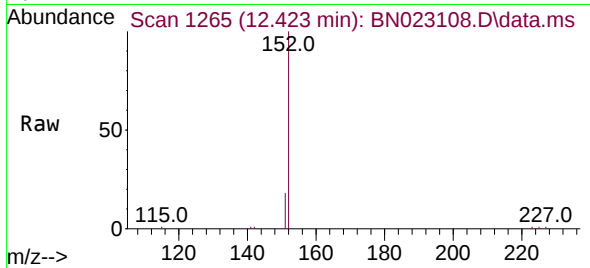
Tgt Ion:225 Resp: 2195  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.3 51.1 76.7





#11  
2-Methylnaphthalene-d10  
Concen: 0.384 ng  
RT: 12.423 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

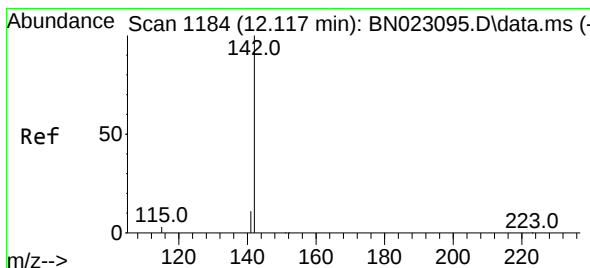
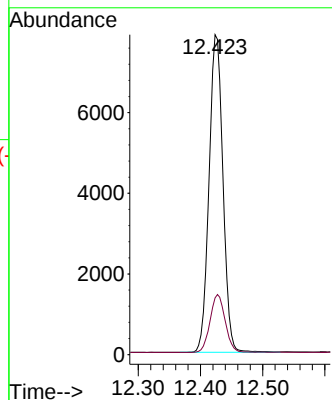
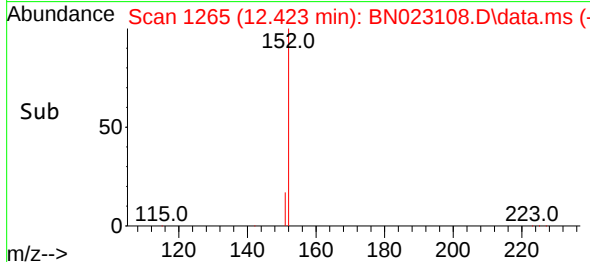
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion:152 Resp: 1338  
Ion Ratio Lower Upper  
152 100  
151 18.1 15.1 22.7

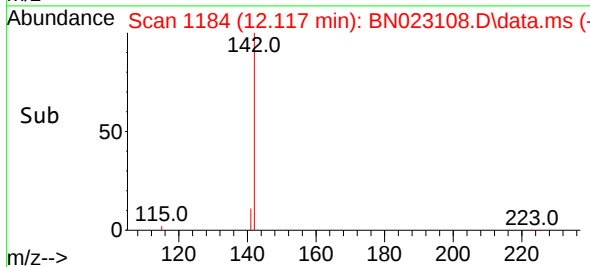
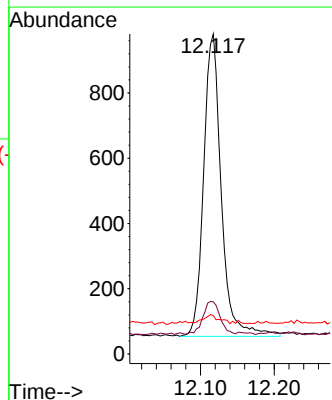
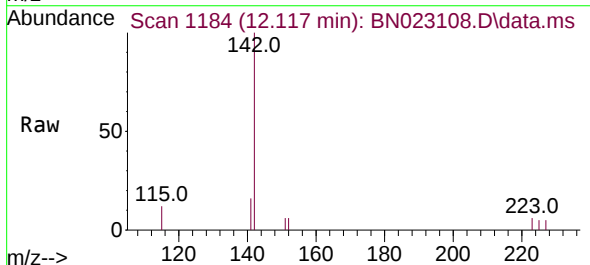
Manual Integrations  
APPROVED

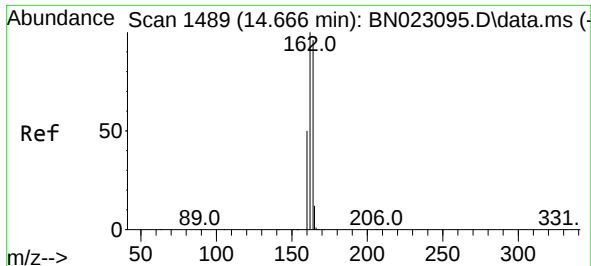
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#12  
2-Methylnaphthalene  
Concen: 0.198 ng  
RT: 12.117 min Scan# 1184  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

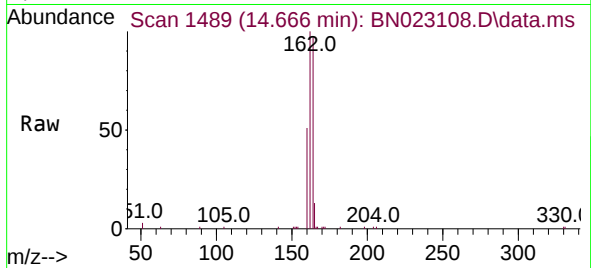
Tgt Ion:142 Resp: 1544  
Ion Ratio Lower Upper  
142 100  
141 16.3 10.9 16.3  
115 12.0 5.7 8.5#





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.666 min Scan# 1489  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

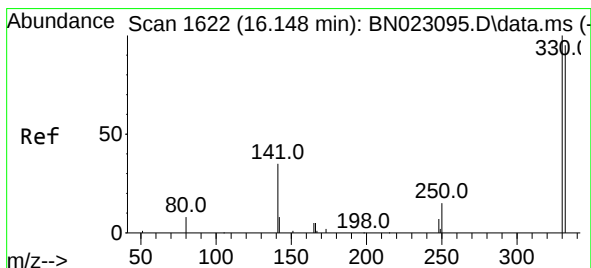
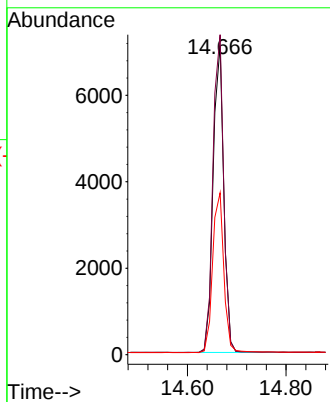
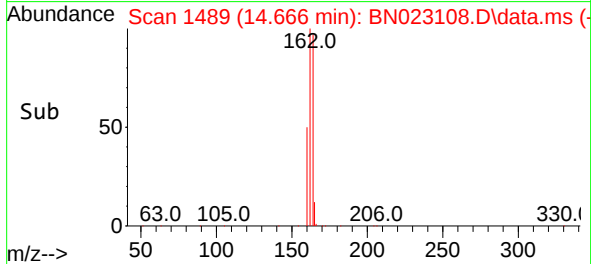
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



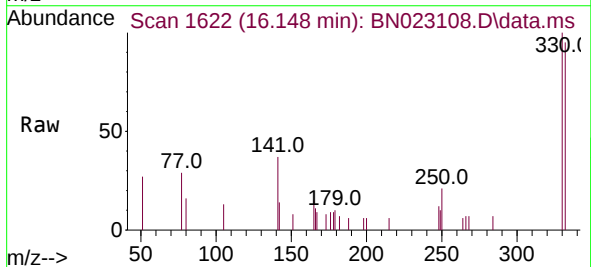
Tgt Ion:164 Resp: 10623  
Ion Ratio Lower Upper  
164 100  
162 103.4 83.4 125.0  
160 52.3 41.8 62.8

Manual Integrations  
APPROVED

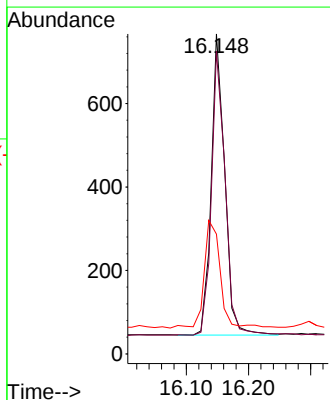
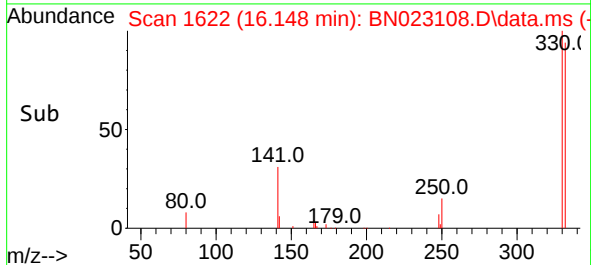
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022

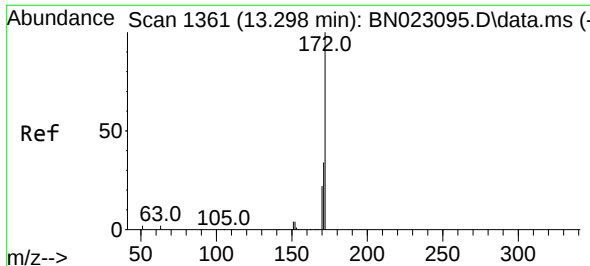


#14  
2,4,6-Tribromophenol  
Concen: 0.283 ng  
RT: 16.148 min Scan# 1622  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47



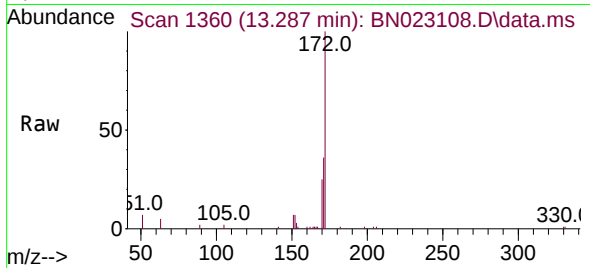
Tgt Ion:330 Resp: 1092  
Ion Ratio Lower Upper  
330 100  
332 95.5 77.3 115.9  
141 42.6 33.5 50.3





#15  
2-Fluorobiphenyl  
Concen: 0.290 ng  
RT: 13.287 min Scan# 1360  
Delta R.T. -0.011 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

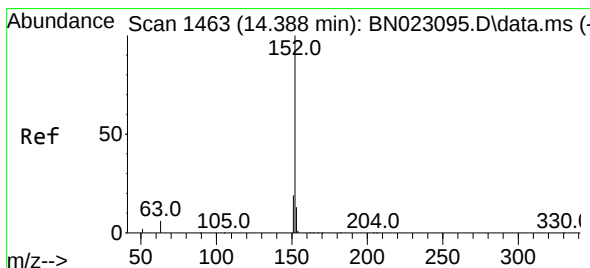
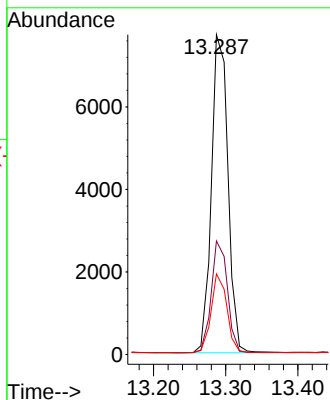
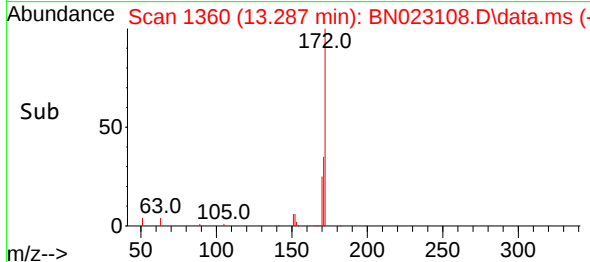
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion:172 Resp: 12300  
Ion Ratio Lower Upper  
172 100  
171 35.5 27.4 41.0  
170 25.2 17.9 26.9

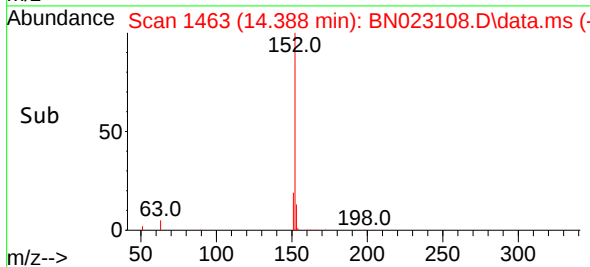
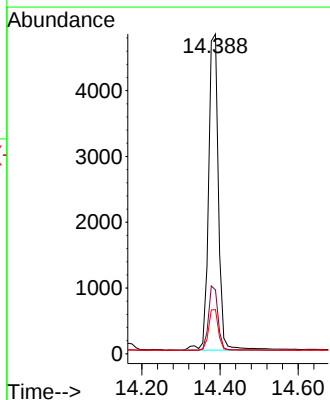
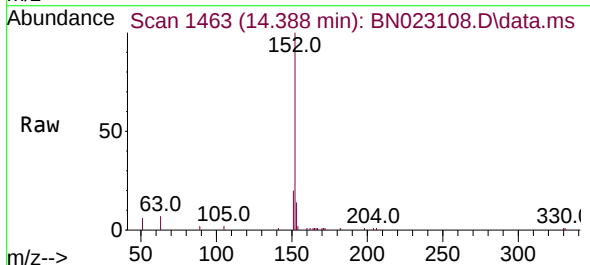
Manual Integrations  
APPROVED

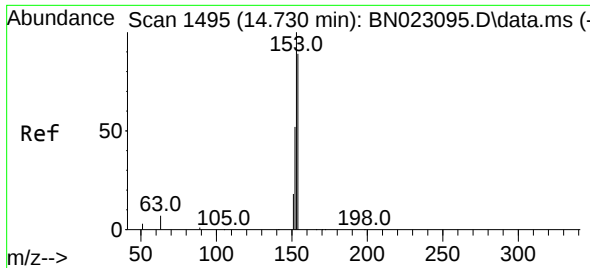
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#16  
Acenaphthylene  
Concen: 0.196 ng  
RT: 14.388 min Scan# 1463  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

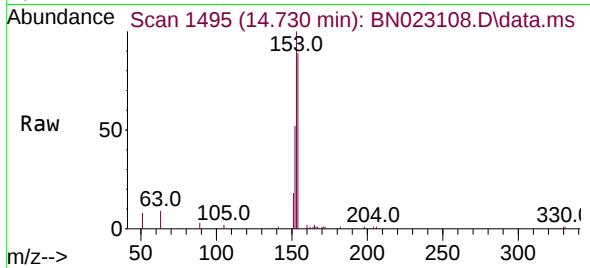
Tgt Ion:152 Resp: 8380  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.4 23.2  
153 12.8 10.3 15.5





#17  
Acenaphthene  
Concen: 0.202 ng  
RT: 14.730 min Scan# 1495  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

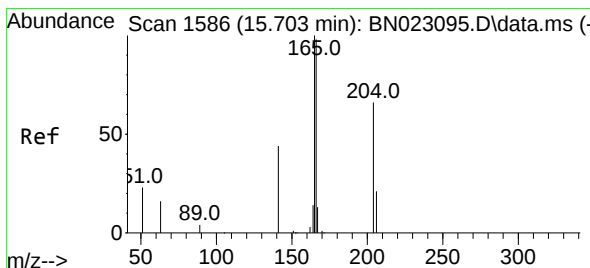
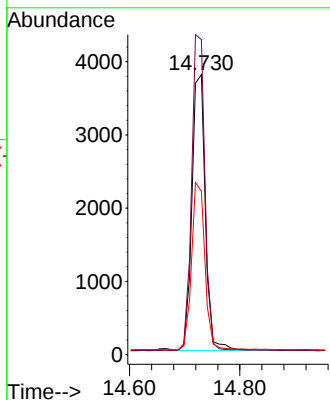
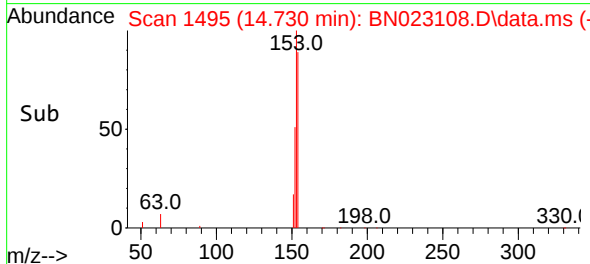
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



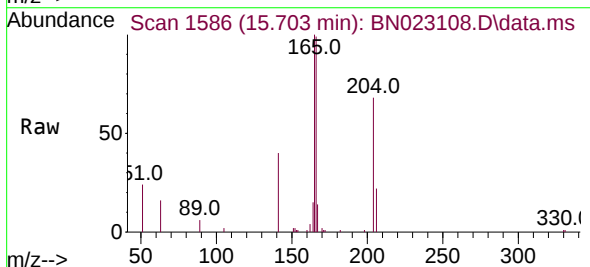
Tgt Ion:154 Resp: 6340  
Ion Ratio Lower Upper  
154 100  
153 113.4 88.6 132.8  
152 60.6 48.1 72.1

Manual Integrations  
APPROVED

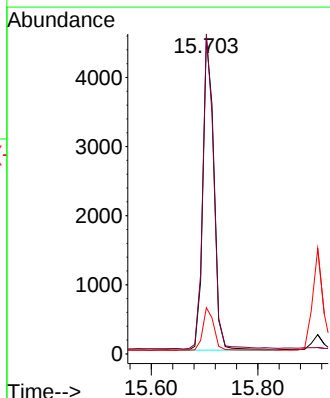
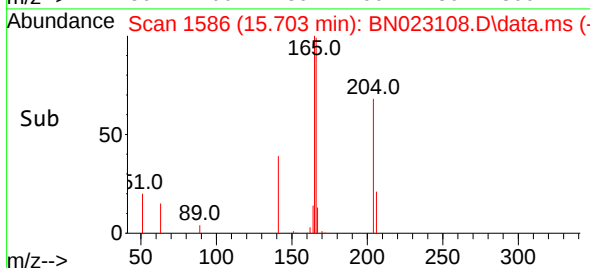
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022

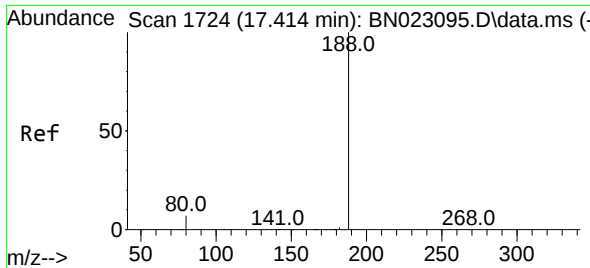


#18  
Fluorene  
Concen: 0.196 ng  
RT: 15.703 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47



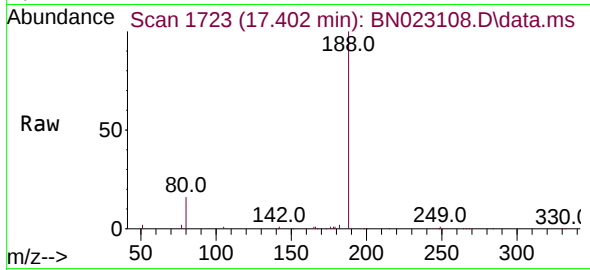
Tgt Ion:166 Resp: 6894  
Ion Ratio Lower Upper  
166 100  
165 100.4 79.8 119.6  
167 13.1 10.6 16.0





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.402 min Scan# 1723  
Delta R.T. -0.012 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

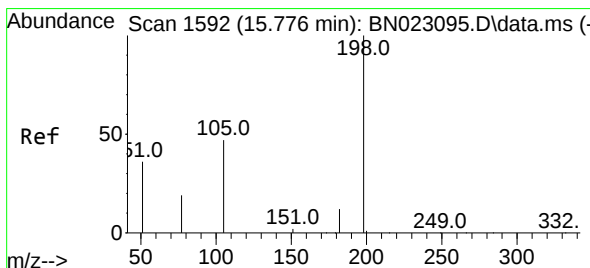
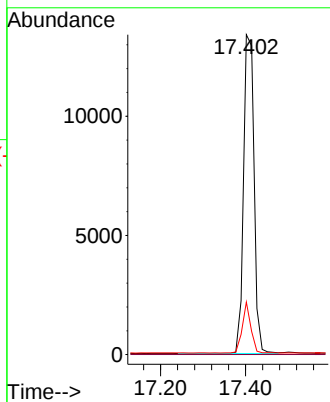
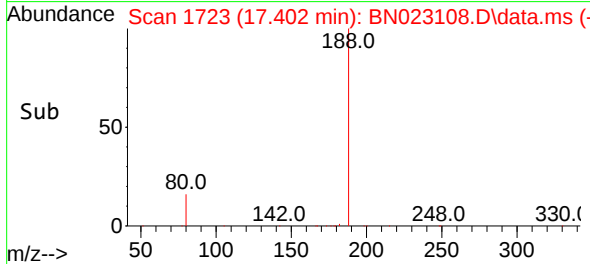
Instrument : BNA\_N  
ClientSampleId : LOQ-SOIL-02-QT4-2022



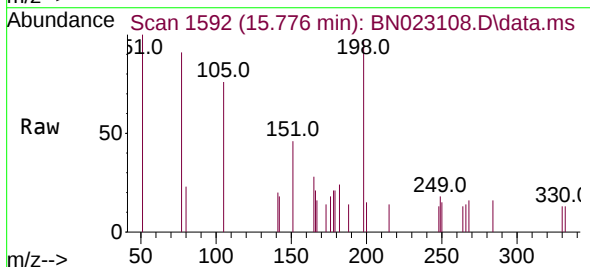
Tgt Ion:188 Resp: 22938  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 16.4 6.1 9.1

Manual Integrations  
APPROVED

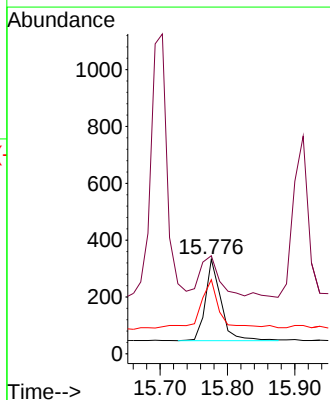
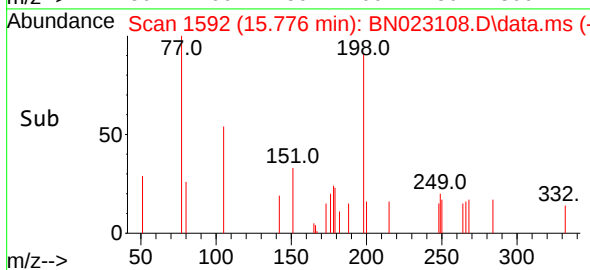
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022

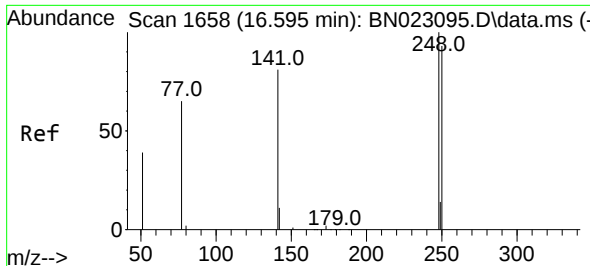


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.141 ng  
RT: 15.776 min Scan# 1592  
Delta R.T. -0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47



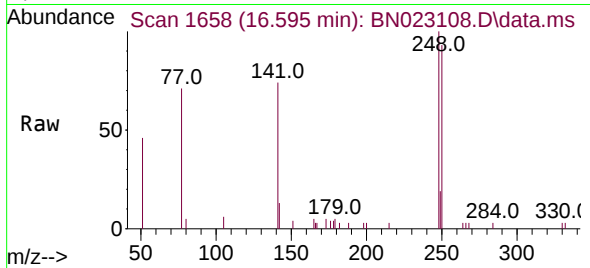
Tgt Ion:198 Resp: 462  
Ion Ratio Lower Upper  
198 100  
51 103.6 57.0 85.4#  
105 78.4 47.2 70.8#





#21  
4-Bromophenyl-phenylether  
Concen: 0.206 ng  
RT: 16.595 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

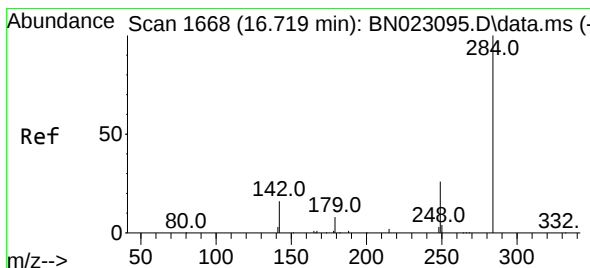
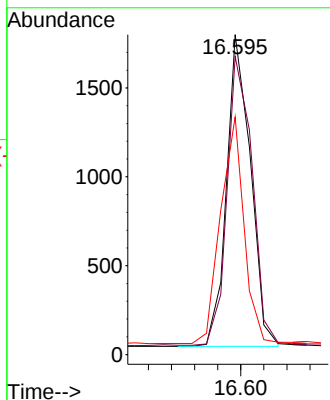
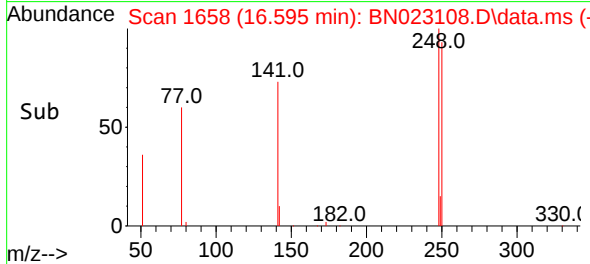
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion:248 Resp: 2522  
Ion Ratio Lower Upper  
248 100  
250 93.2 74.3 111.5  
141 74.3 65.0 97.6

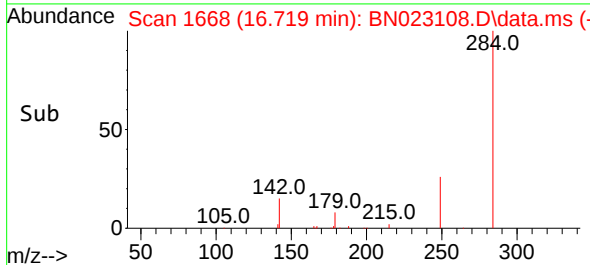
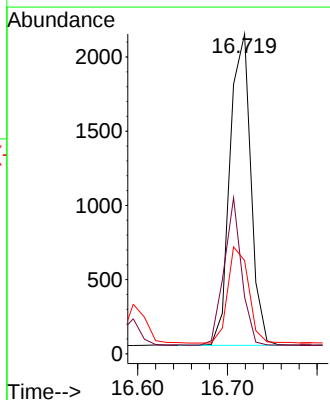
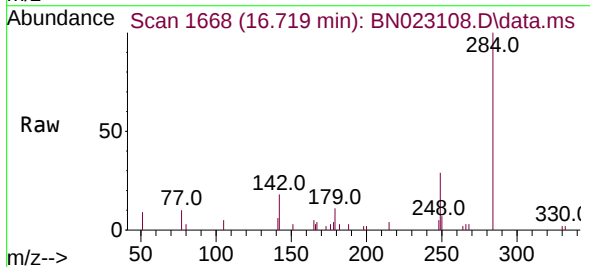
Manual Integrations  
APPROVED

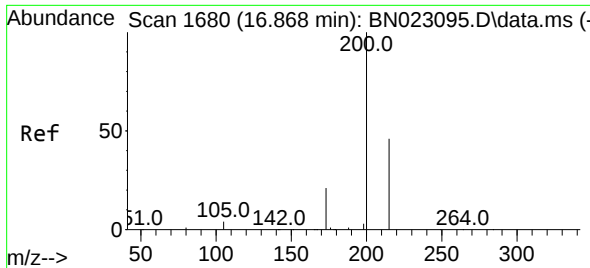
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#22  
Hexachlorobenzene  
Concen: 0.211 ng  
RT: 16.719 min Scan# 1668  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

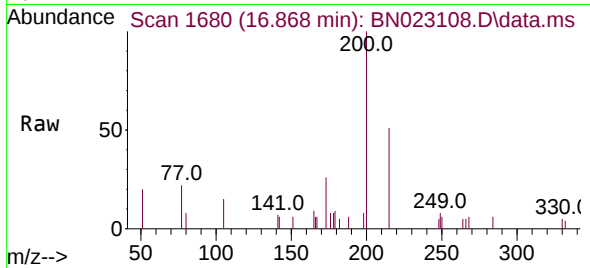
Tgt Ion:284 Resp: 3386  
Ion Ratio Lower Upper  
284 100  
142 40.0 31.0 46.4  
249 31.0 24.4 36.6





#23  
Atrazine  
Concen: 0.184 ng  
RT: 16.868 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

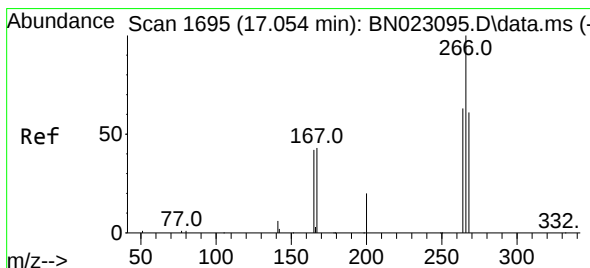
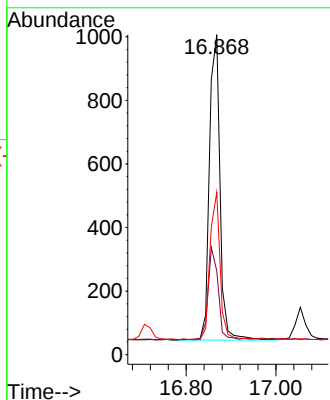
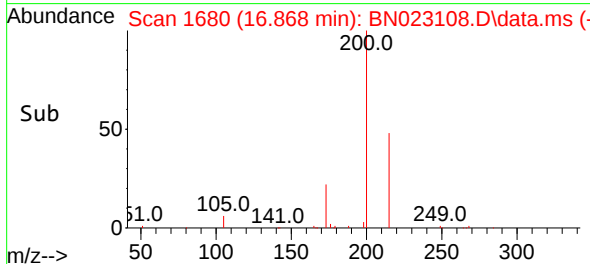
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



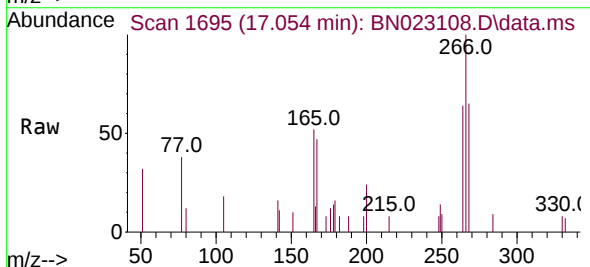
Tgt Ion:200 Resp: 1584  
Ion Ratio Lower Upper  
200 100  
173 26.1 18.2 27.4  
215 50.7 38.0 57.0

Manual Integrations  
APPROVED

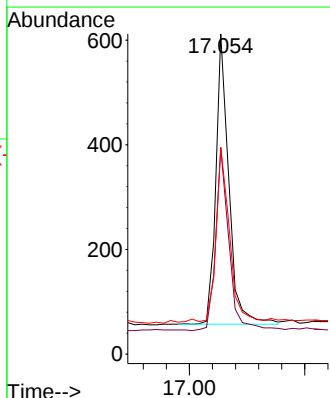
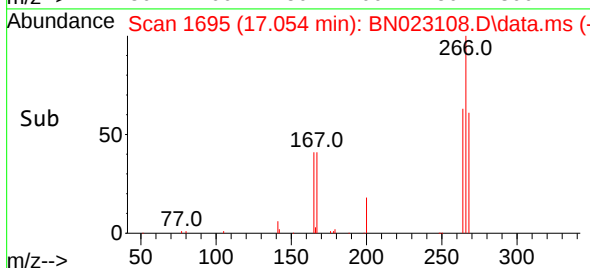
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022

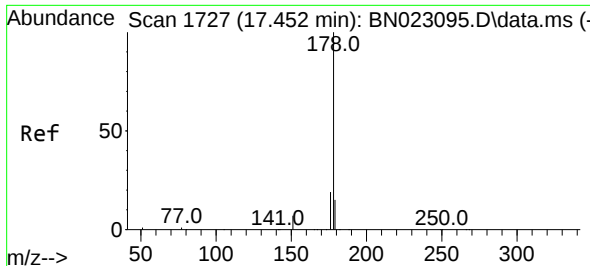


#24  
Pentachlorophenol  
Concen: 0.156 ng  
RT: 17.054 min Scan# 1695  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47



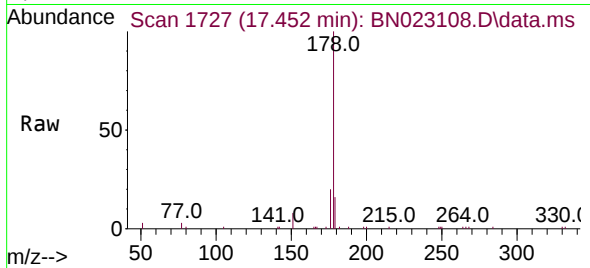
Tgt Ion:266 Resp: 868  
Ion Ratio Lower Upper  
266 100  
264 64.3 50.1 75.1  
268 62.3 49.7 74.5





#25  
Phenanthrene  
Concen: 0.196 ng  
RT: 17.452 min Scan# 1727  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

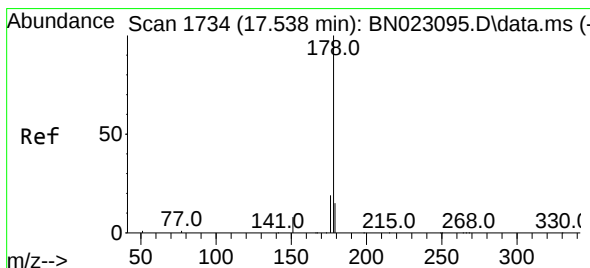
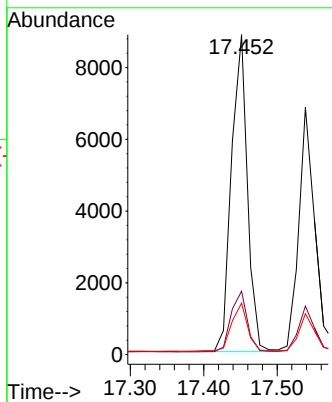
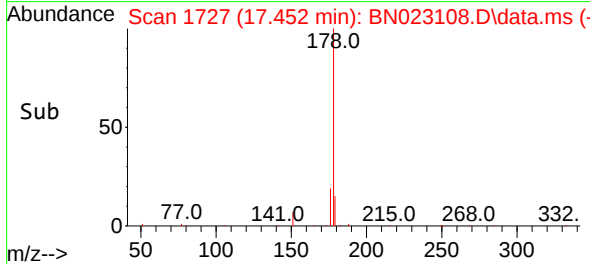
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



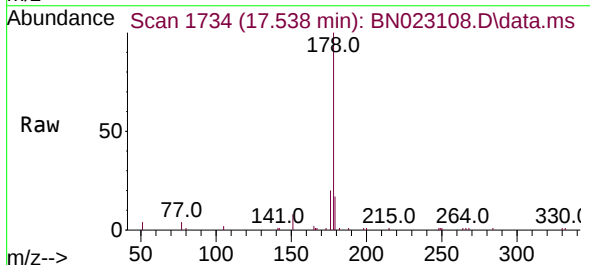
Tgt Ion:178 Resp: 13380  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.2  
179 15.2 12.2 18.2

Manual Integrations  
APPROVED

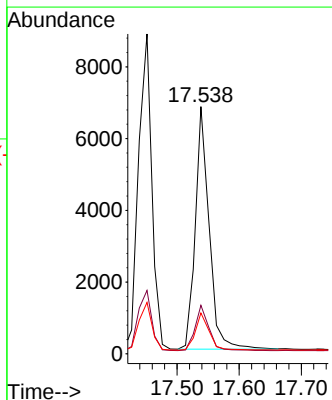
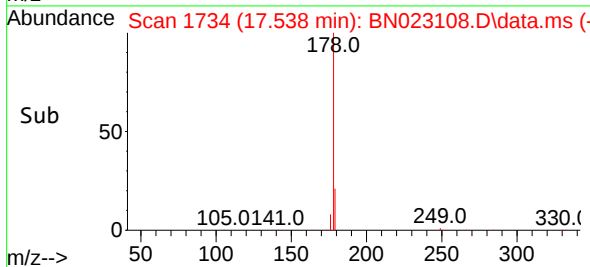
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022

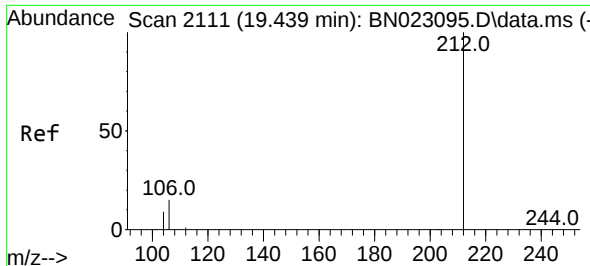


#26  
Anthracene  
Concen: 0.192 ng  
RT: 17.538 min Scan# 1734  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47



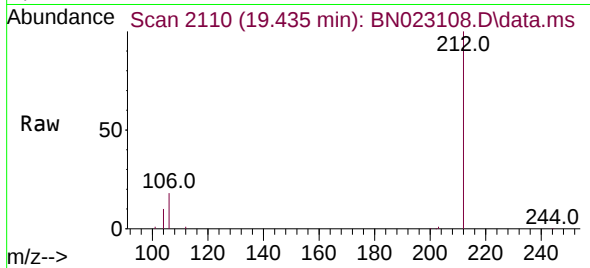
Tgt Ion:178 Resp: 10467  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.1 22.7  
179 15.4 12.2 18.4





#27  
Fluoranthene-d10  
Concen: 0.456 ng  
RT: 19.435 min Scan# 2111  
Delta R.T. -0.004 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

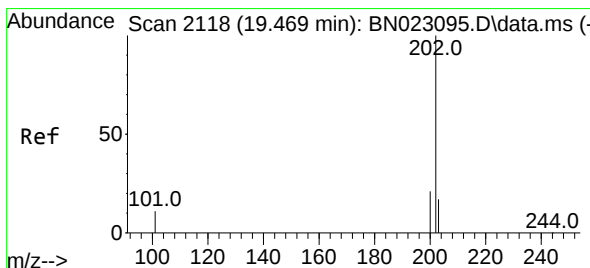
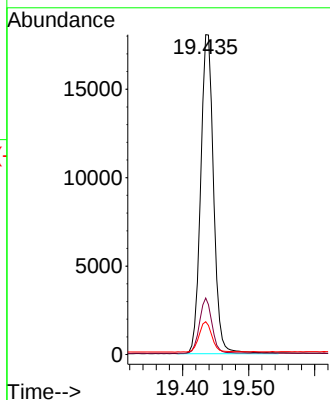
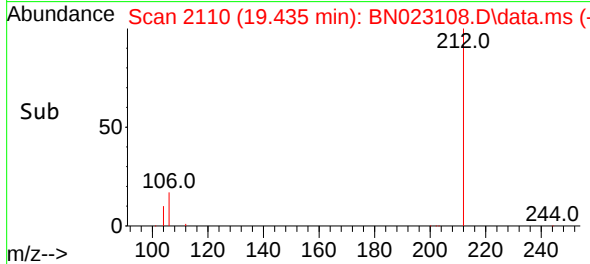
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



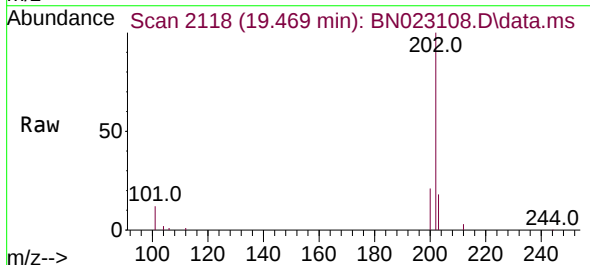
Tgt Ion:212 Resp: 24492  
Ion Ratio Lower Upper  
212 100  
106 16.7 13.0 19.4  
104 9.5 7.5 11.3

Manual Integrations  
APPROVED

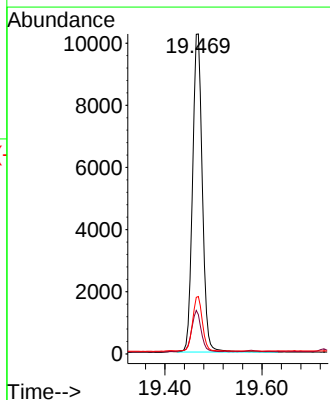
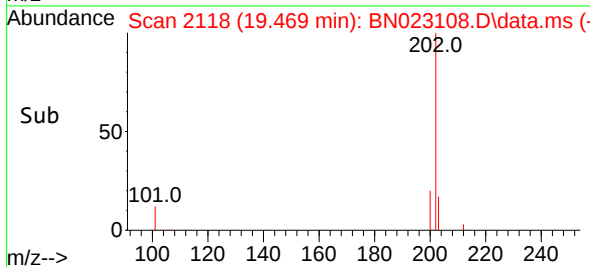
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022

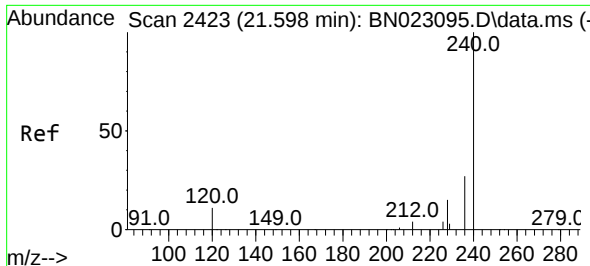


#28  
Fluoranthene  
Concen: 0.195 ng  
RT: 19.469 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47



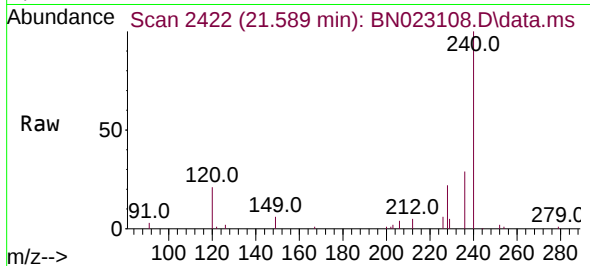
Tgt Ion:202 Resp: 14243  
Ion Ratio Lower Upper  
202 100  
101 13.1 9.7 14.5  
203 17.1 13.8 20.6





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.589 min Scan# 2423  
Delta R.T. -0.009 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

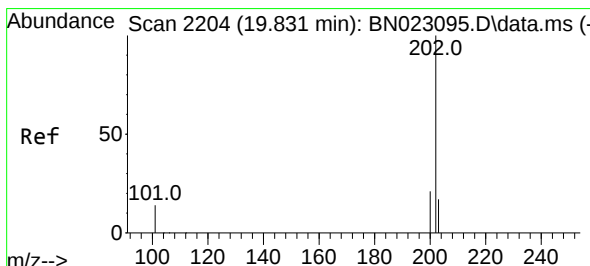
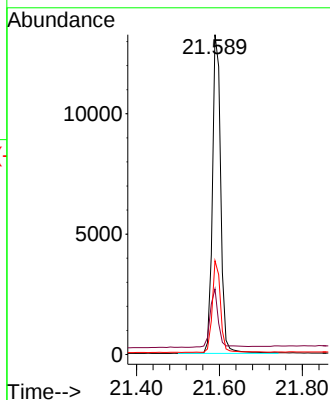
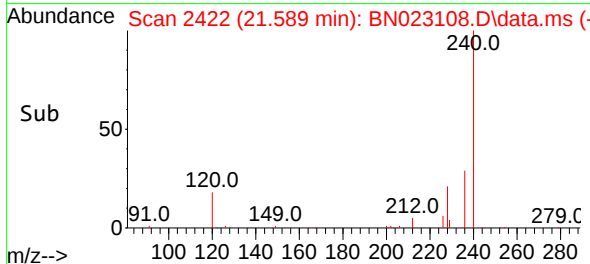
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion:240 Resp: 18554  
Ion Ratio Lower Upper  
240 100  
120 20.5 10.1 15.1  
236 29.3 22.2 33.4

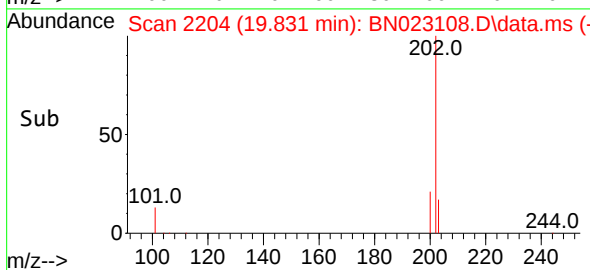
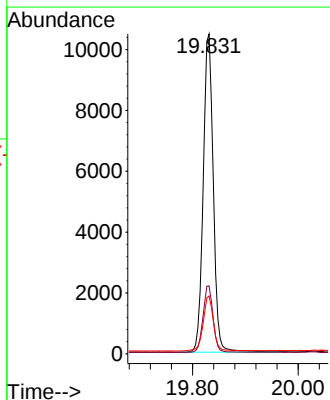
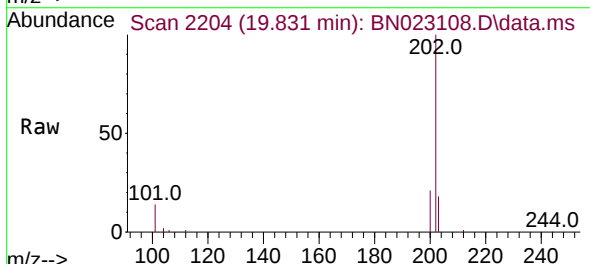
Manual Integrations  
APPROVED

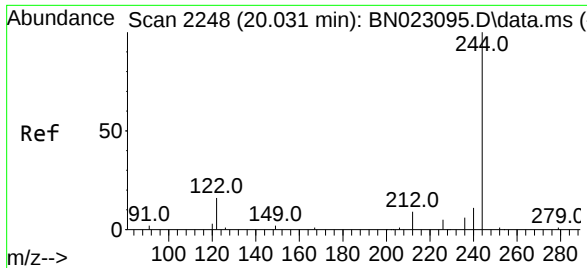
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#30  
Pyrene  
Concen: 0.204 ng  
RT: 19.831 min Scan# 2204  
Delta R.T. 0.000 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

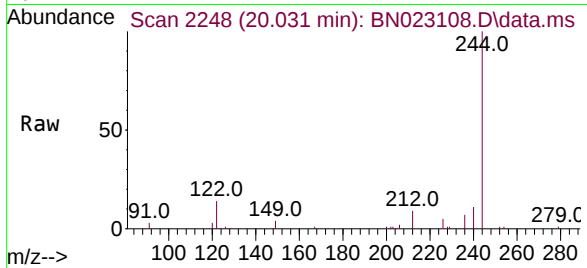
Tgt Ion:202 Resp: 13838  
Ion Ratio Lower Upper  
202 100  
200 21.0 16.9 25.3  
203 17.7 14.2 21.4





#31  
 Terphenyl-d14  
 Concen: 0.274 ng  
 RT: 20.031 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN023108.D  
 Acq: 09 Dec 2022 15:47

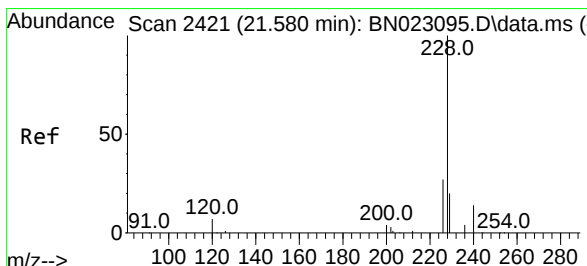
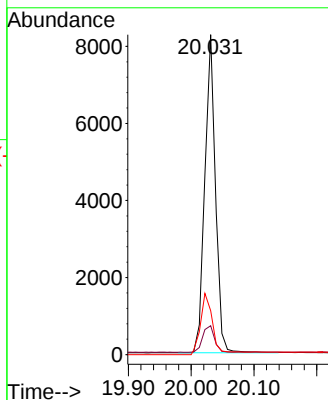
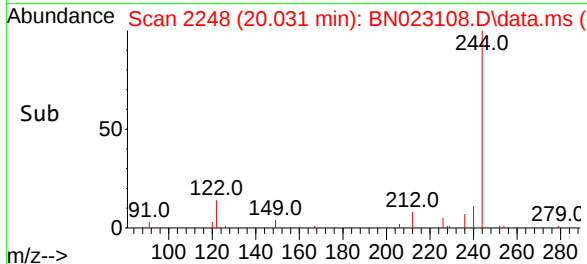
Instrument :  
 BNA\_N  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2022



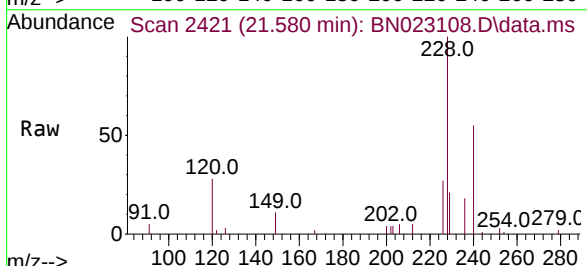
Tgt Ion:244 Resp: 8239  
 Ion Ratio Lower Upper  
 244 100  
 212 9.0 7.6 11.4  
 122 13.7 12.6 18.8

Manual Integrations  
 APPROVED

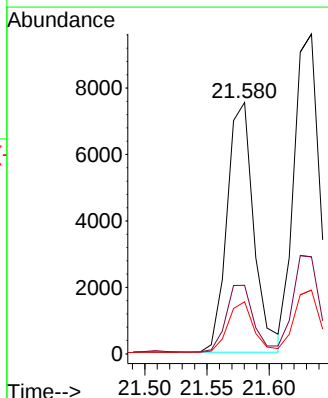
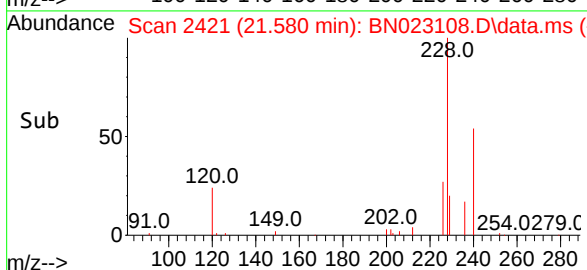
Reviewed By :Christian Giraldo 12/10/2022  
 Supervised By :Jagrut Upadhyay 12/13/2022

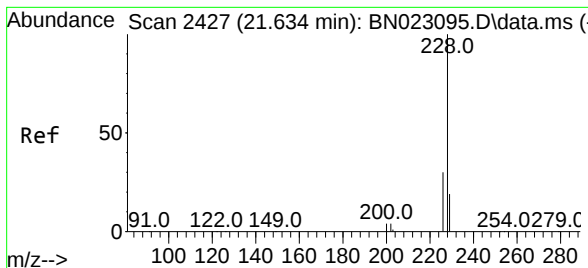


#32  
 Benzo(a)anthracene  
 Concen: 0.189 ng  
 RT: 21.580 min Scan# 2421  
 Delta R.T. 0.000 min  
 Lab File: BN023108.D  
 Acq: 09 Dec 2022 15:47



Tgt Ion:228 Resp: 11301  
 Ion Ratio Lower Upper  
 228 100  
 226 27.2 22.0 33.0  
 229 20.7 15.8 23.8





#33

Chrysene

Concen: 0.206 ng

RT: 21.634 min Scan# 2427

Delta R.T. 0.000 min

Lab File: BN023108.D

Acq: 09 Dec 2022 15:47

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT4-2022

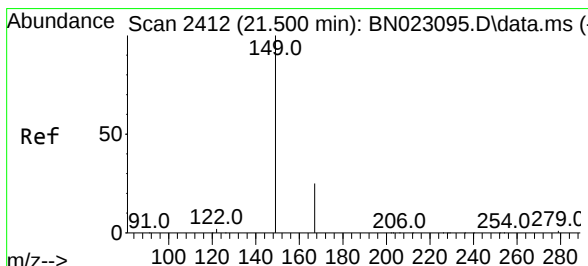
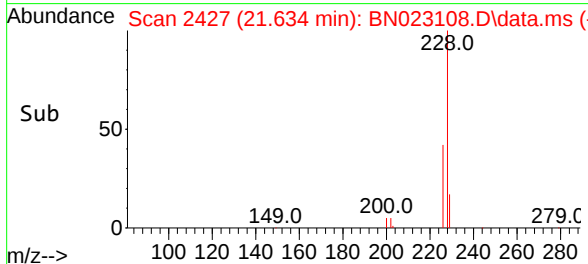
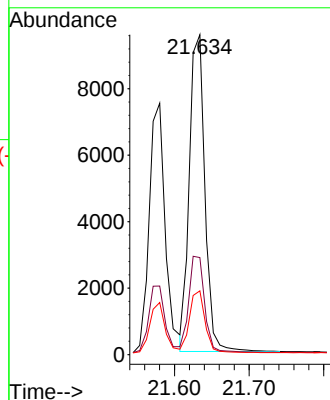
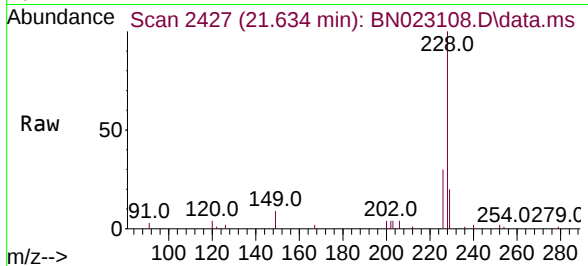
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 1383 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 30.3  | 24.4  | 36.6 |
| 229       | 19.9  | 15.6  | 23.4 |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/10/2022

Supervised By :Jagrut Upadhyay 12/13/2022



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.206 ng

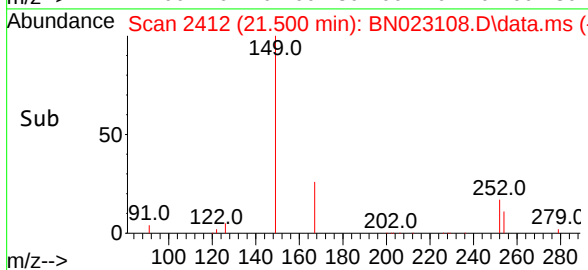
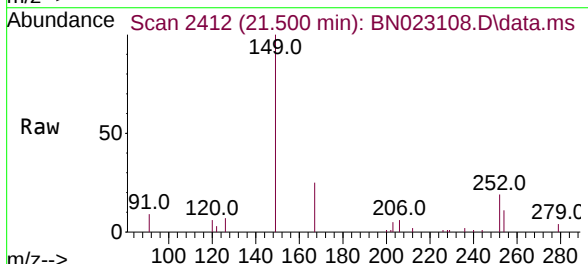
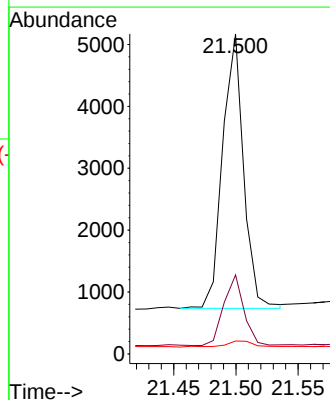
RT: 21.500 min Scan# 2412

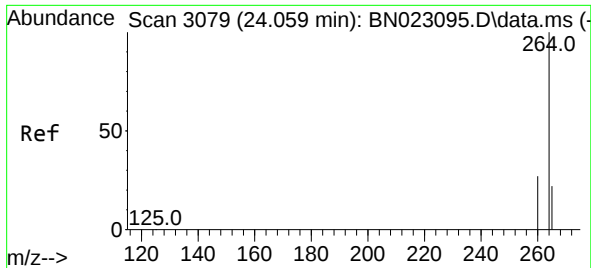
Delta R.T. 0.000 min

Lab File: BN023108.D

Acq: 09 Dec 2022 15:47

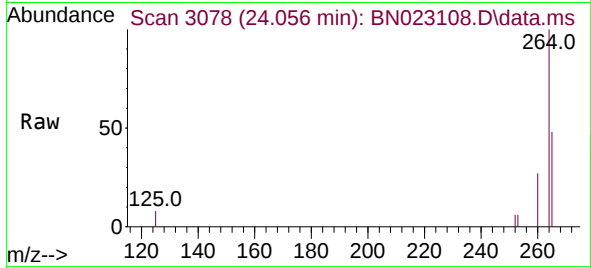
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 5211 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 24.7  | 20.2  | 30.2 |
| 279       | 3.3   | 2.3   | 3.5  |





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.056 min Scan# 3078  
Delta R.T. -0.003 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

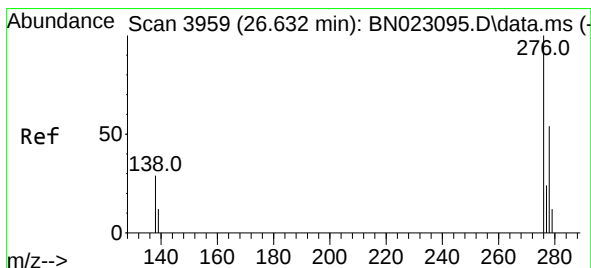
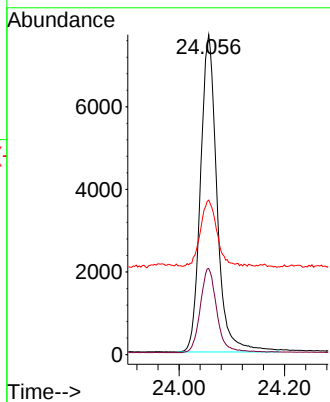
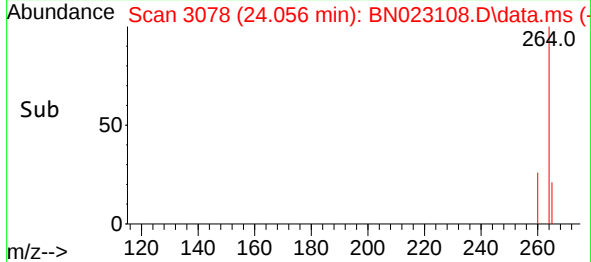
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT4-2022



Tgt Ion:264 Resp: 16716  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.7 32.5  
265 48.3 43.2 64.8

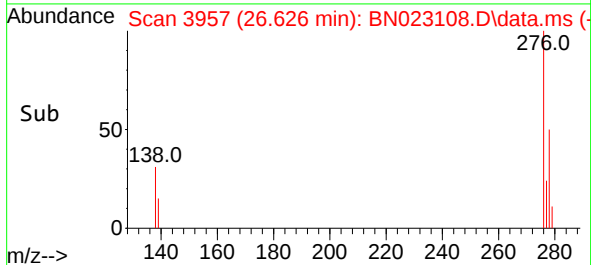
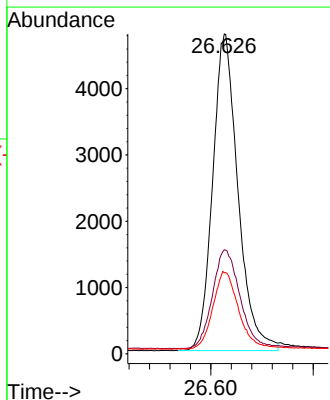
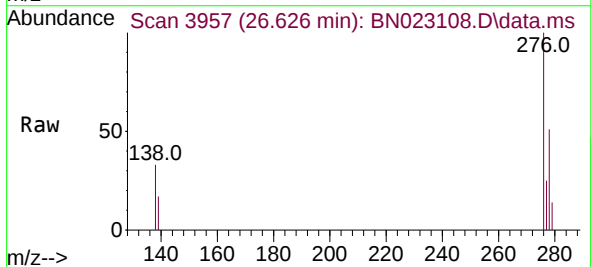
Manual Integrations  
APPROVED

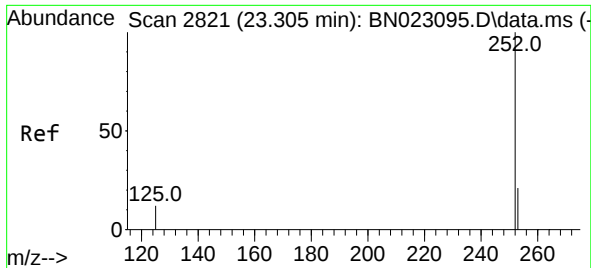
Reviewed By :Christian Giraldo 12/10/2022  
Supervised By :Jagrut Upadhyay 12/13/2022



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.219 ng  
RT: 26.626 min Scan# 3957  
Delta R.T. -0.006 min  
Lab File: BN023108.D  
Acq: 09 Dec 2022 15:47

Tgt Ion:276 Resp: 16391  
Ion Ratio Lower Upper  
276 100  
138 34.6 25.0 37.6  
277 24.8 19.8 29.8





#37

Benzo(b)fluoranthene

Concen: 0.208 ng m

RT: 23.302 min Scan# 2821

Delta R.T. -0.003 min

Lab File: BN023108.D

Acq: 09 Dec 2022 15:47

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT4-2022

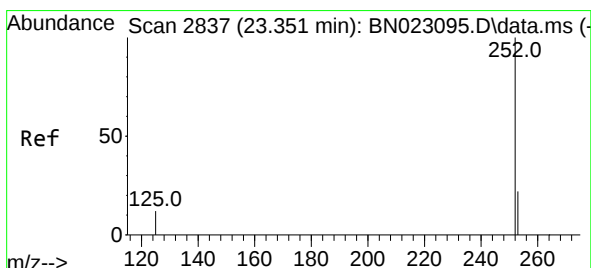
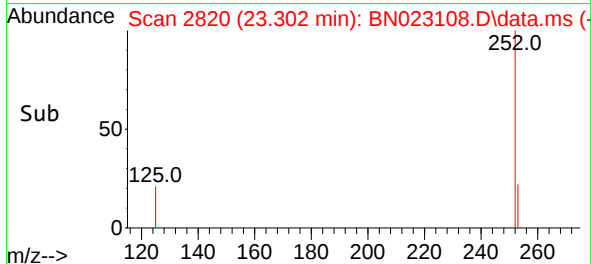
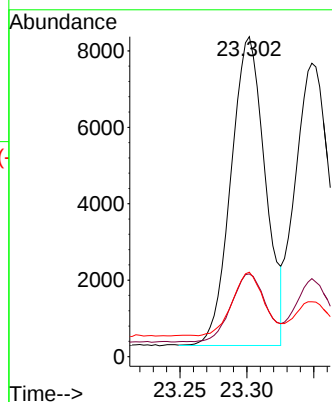
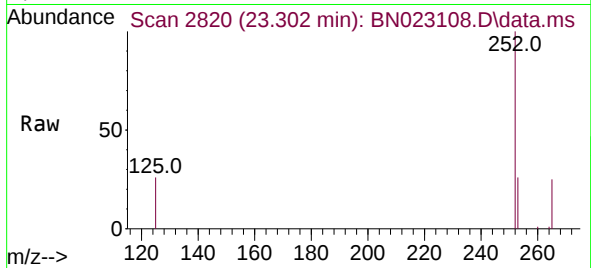
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 14384     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.8  | 19.0 28.4 |
| 125         | 26.4  | 12.8 19.2 |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/10/2022

Supervised By :Jagrut Upadhyay 12/13/2022



#38

Benzo(k)fluoranthene

Concen: 0.193 ng

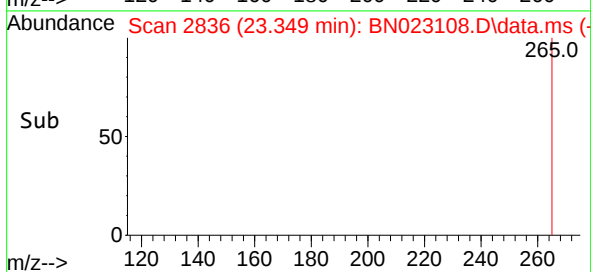
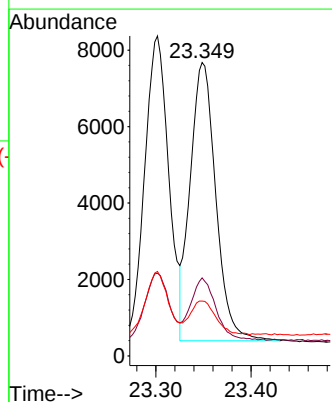
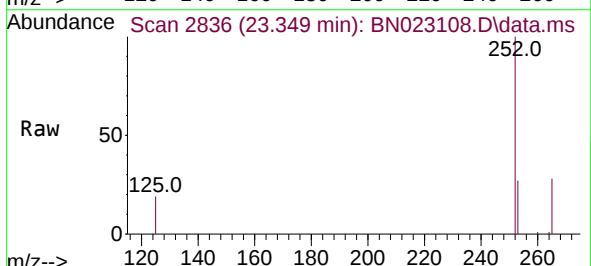
RT: 23.349 min Scan# 2836

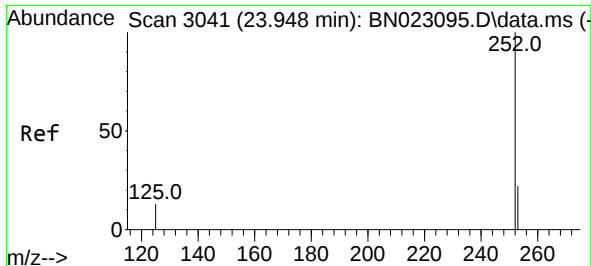
Delta R.T. -0.003 min

Lab File: BN023108.D

Acq: 09 Dec 2022 15:47

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 13607     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 26.6  | 19.1 28.7 |
| 125         | 18.7  | 12.5 18.7 |





#39

Benzo(a)pyrene

Concen: 0.251 ng

RT: 23.945 min Scan# 3041

Delta R.T. -0.003 min

Lab File: BN023108.D

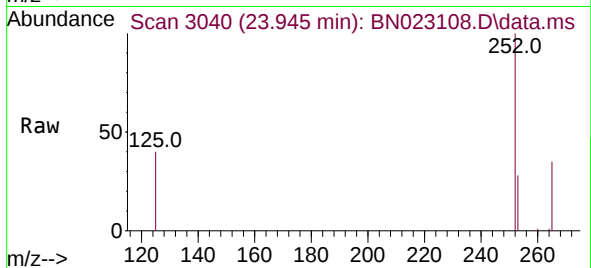
Acq: 09 Dec 2022 15:47

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT4-2022



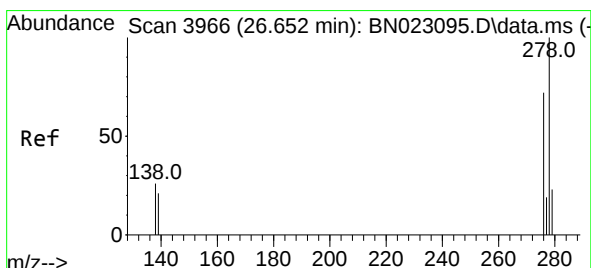
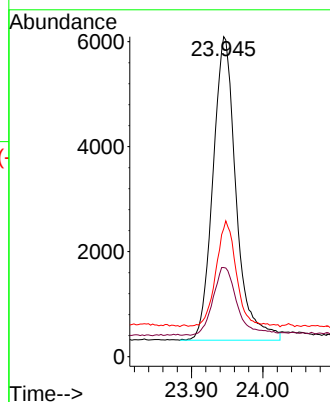
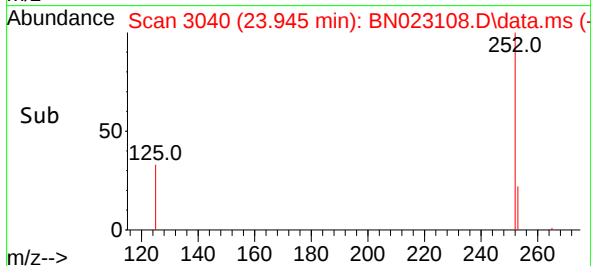
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 1304      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 27.8  | 20.6 30.8 |
| 125         | 40.0  | 15.8 23.8 |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/10/2022

Supervised By :Jagrut Upadhyay 12/13/2022



#40

Dibenzo(a,h)anthracene

Concen: 0.218 ng

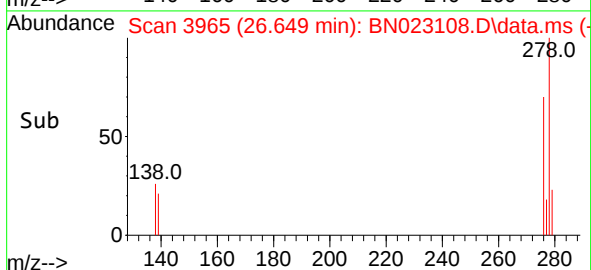
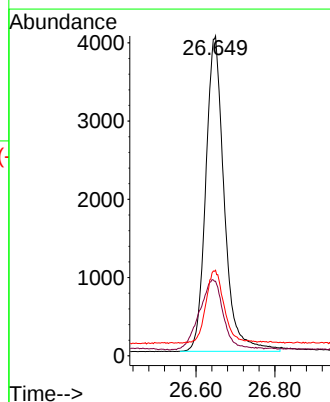
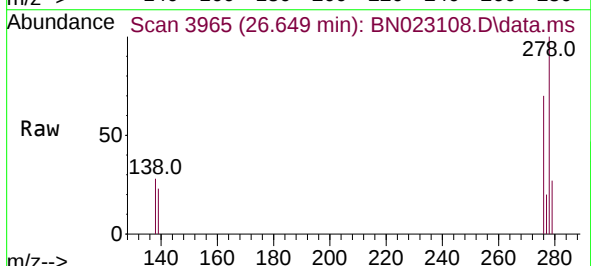
RT: 26.649 min Scan# 3965

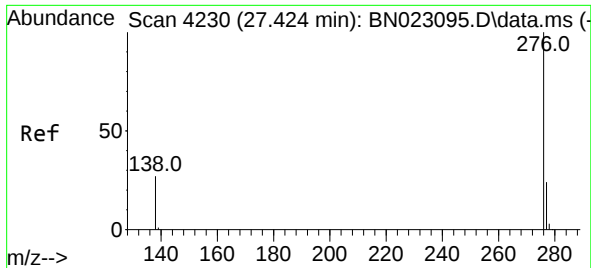
Delta R.T. -0.003 min

Lab File: BN023108.D

Acq: 09 Dec 2022 15:47

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 13119     |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 23.3  | 17.5 26.3 |
| 279         | 26.8  | 20.5 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.197 ng

RT: 27.415 min Scan# 41

Delta R.T. -0.009 min

Lab File: BN023108.D

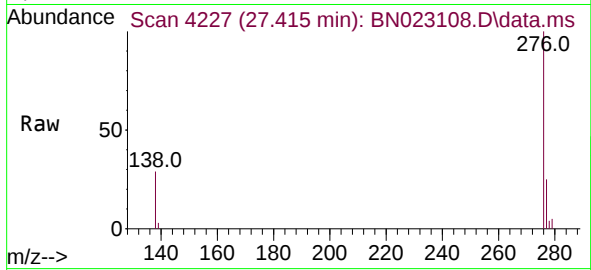
Acq: 09 Dec 2022 15:47

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT4-2022



Tgt Ion:276 Resp: 12636

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

138 29.2 22.2 33.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/10/2022

Supervised By :Jagrut Upadhyay 12/13/2022

