

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN031524\  
 Data File : BN030414.D  
 Acq On : 15 Mar 2024 11:34  
 Operator : MA/JU  
 Sample : P1601-03  
 Misc : SFAM-SIM-MDL-SOIL-01  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-QT1-2024-01

Quant Time: Mar 15 12:03:45 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN031524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 15 01:04:41 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/15/2024  
 Supervised By :mohammad ahmed 03/16/2024

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.603  | 152  | 1718     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.385 | 136  | 3777     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.256 | 164  | 2283     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.018 | 188  | 4124     | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.220 | 240  | 4213     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.427 | 264  | 4869     | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.155  | 96   | 899      | 0.429 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.991 | 152  | 1766     | 0.338 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.053 | 212  | 5316     | 0.410 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.189  | 88   | 176m     | 0.077 | ng/ul  |          |
| 5) Naphthalene              | 10.435 | 128  | 670      | 0.066 | ng/ul# | 70       |
| 7) 2-Methylnaphthalene      | 12.063 | 142  | 363      | 0.061 | ng/ul# | 100      |
| 8) 1-Methylnaphthalene      | 12.283 | 142  | 421      | 0.066 | ng/ul# | 29       |
| 10) Acenaphthylene          | 13.978 | 152  | 759      | 0.070 | ng/ul# | 80       |
| 11) Acenaphthene            | 14.321 | 153  | 575      | 0.072 | ng/ul  | 94       |
| 12) Fluorene                | 15.324 | 166  | 597      | 0.068 | ng/ul# | 89       |
| 14) Pentachlorophenol       | 16.676 | 266  | 91m      | 0.077 | ng/ul  |          |
| 15) Phenanthrene            | 17.060 | 178  | 874      | 0.072 | ng/ul# | 78       |
| 16) Anthracene              | 17.158 | 178  | 737      | 0.066 | ng/ul# | 70       |
| 19) Fluoranthene            | 19.085 | 202  | 1143     | 0.069 | ng/ul# | 82       |
| 20) Pyrene                  | 19.448 | 202  | 1259     | 0.071 | ng/ul# | 83       |
| 21) Benzo(a)anthracene      | 21.208 | 228  | 855      | 0.061 | ng/ul# | 88       |
| 22) Chrysene                | 21.258 | 228  | 1076     | 0.066 | ng/ul# | 91       |
| 24) Benzo(b)fluoranthene    | 22.772 | 252  | 1045     | 0.064 | ng/ul# | 29       |
| 25) Benzo(k)fluoranthene    | 22.818 | 252  | 1254     | 0.063 | ng/ul# | 25       |
| 26) Benzo(a)pyrene          | 23.336 | 252  | 1190     | 0.069 | ng/ul# | 12       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.659 | 276  | 1451     | 0.064 | ng/ul# | 69       |
| 28) Dibenzo(a,h)anthracene  | 25.683 | 278  | 1110     | 0.064 | ng/ul# | 10       |
| 29) Benzo(g,h,i)perylene    | 26.317 | 276  | 1356     | 0.067 | ng/ul# | 75       |
| -----                       |        |      |          |       |        |          |

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

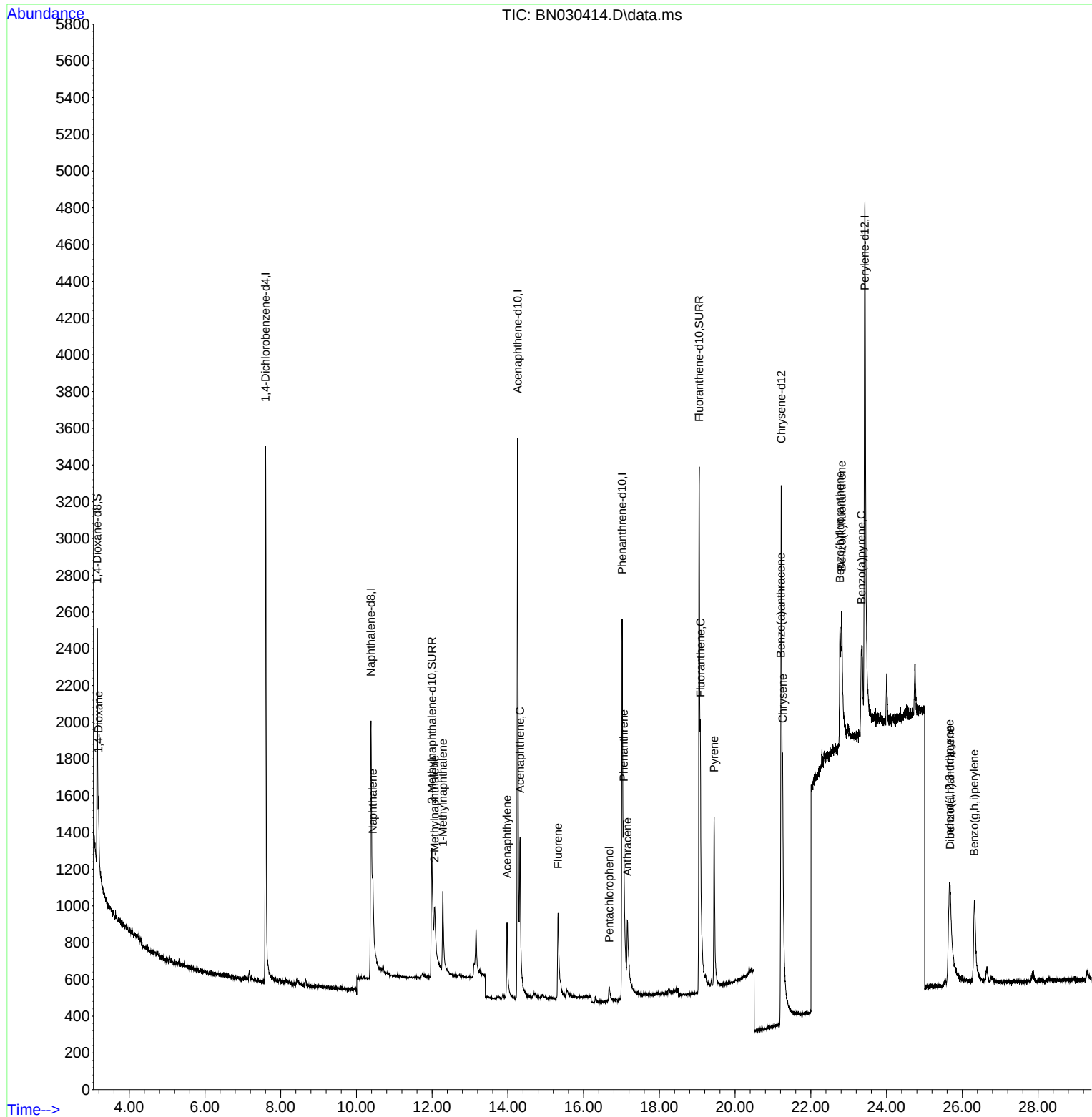
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN031524\  
Data File : BN030414.D  
Acq On : 15 Mar 2024 11:34  
Operator : MA/JU  
Sample : P1601-03  
Misc : SFAM-SIM-MDL-SOIL-01  
ALS Vial : 5 Sample Multiplier: 1

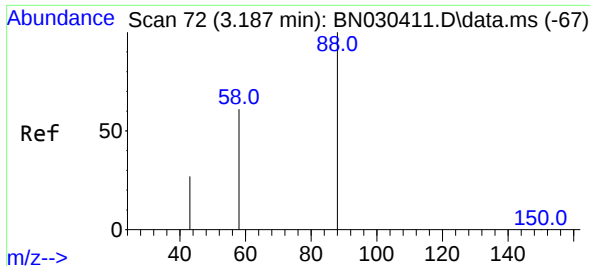
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01

Quant Time: Mar 15 12:03:45 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN031524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 15 01:04:41 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

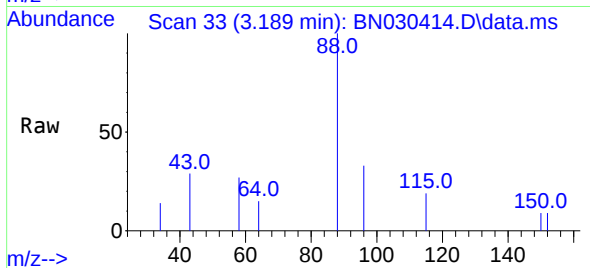
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024





#2  
1,4-Dioxane  
Concen: 0.077 ng/ul m  
RT: 3.189 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

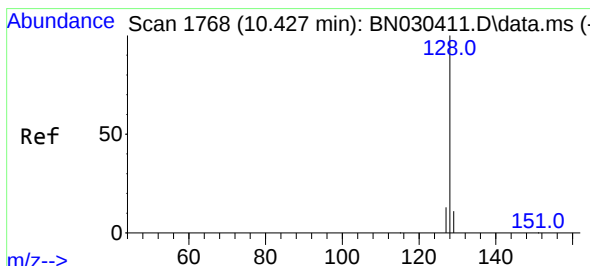
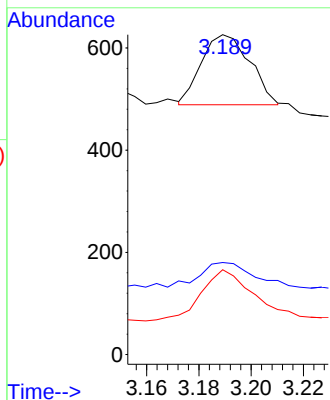
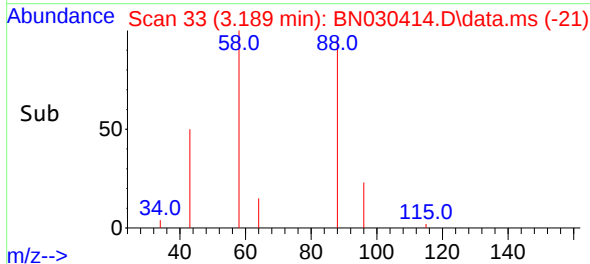
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion: 88 Resp: 170  
Ion Ratio Lower Upper  
88 100  
43 28.8 24.7 37.1  
58 26.5 36.6 54.8

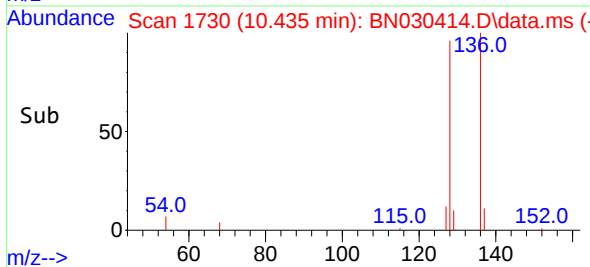
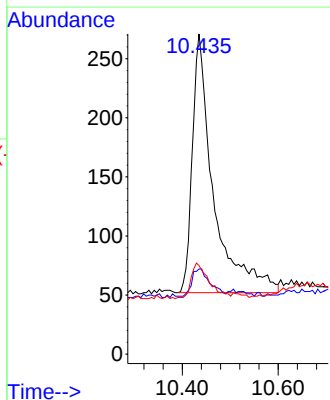
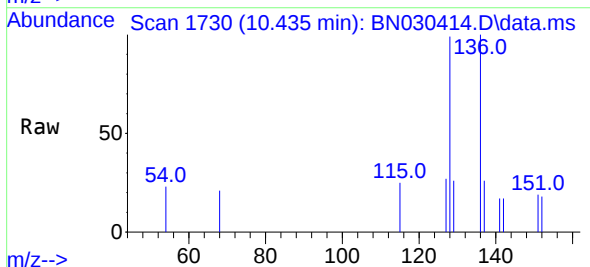
Manual Integrations  
APPROVED

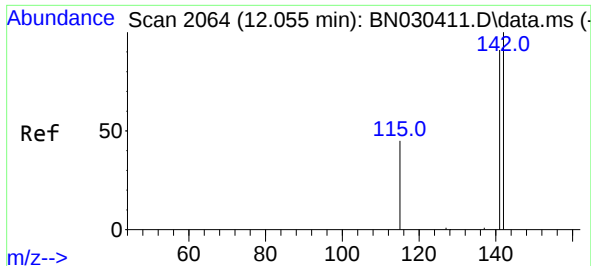
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#5  
Naphthalene  
Concen: 0.066 ng/ul  
RT: 10.435 min Scan# 1730  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

Tgt Ion:128 Resp: 670  
Ion Ratio Lower Upper  
128 100  
129 26.6 10.5 15.7#  
127 27.7 13.0 19.4#





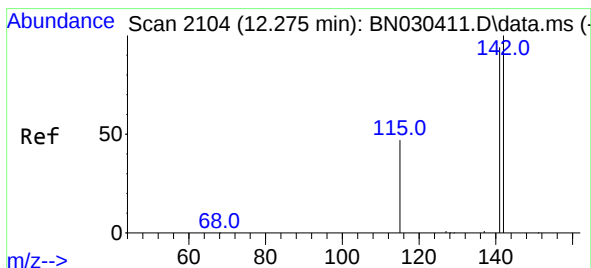
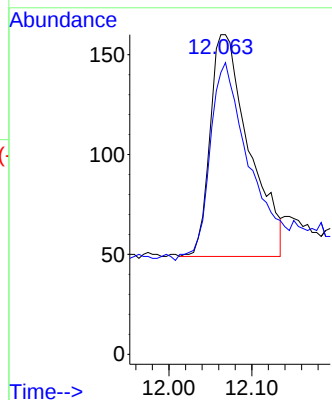
#7  
2-Methylnaphthalene  
Concen: 0.061 ng/ul  
RT: 12.063 min Scan# 2064  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01

Tgt Ion:142 Resp: 361  
Ion Ratio Lower Upper  
142 100  
141 89.3 0.0 0.0

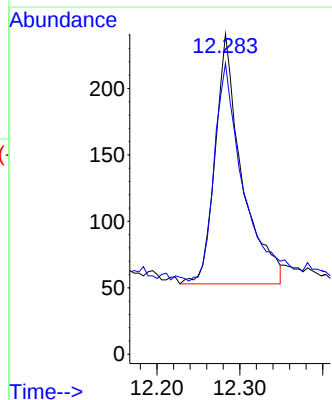
Manual Integrations  
APPROVED

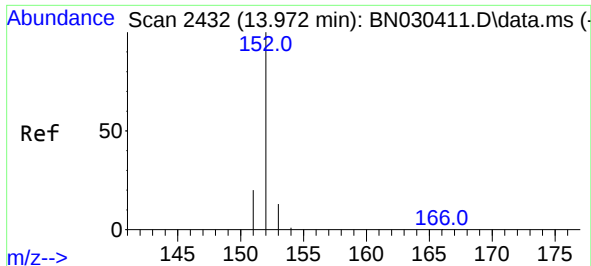
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#8  
1-Methylnaphthalene  
Concen: 0.066 ng/ul  
RT: 12.283 min Scan# 2066  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

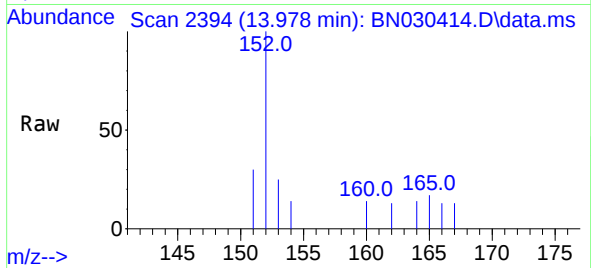
Tgt Ion:142 Resp: 421  
Ion Ratio Lower Upper  
142 100  
141 91.7 0.2 0.2





#10  
Acenaphthylene  
Concen: 0.070 ng/u1  
RT: 13.978 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

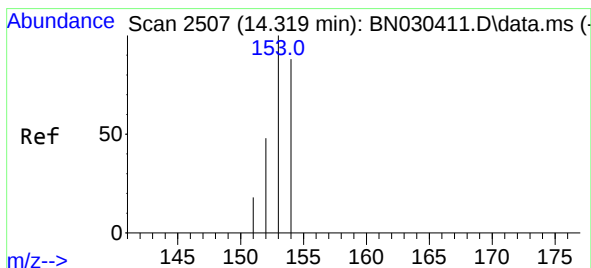
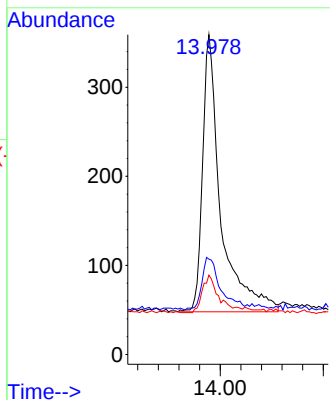
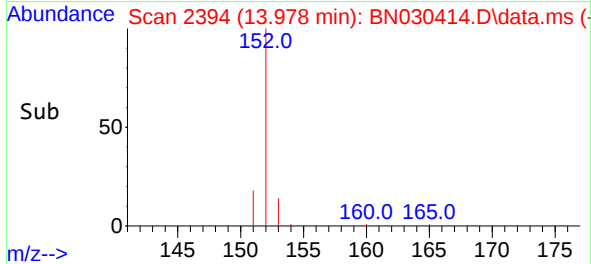
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion:152 Resp: 759  
Ion Ratio Lower Upper  
152 100  
151 29.8 17.1 25.7  
153 24.8 12.2 18.2

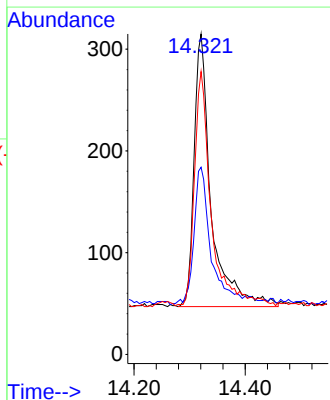
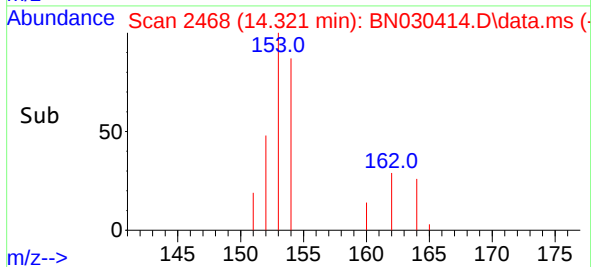
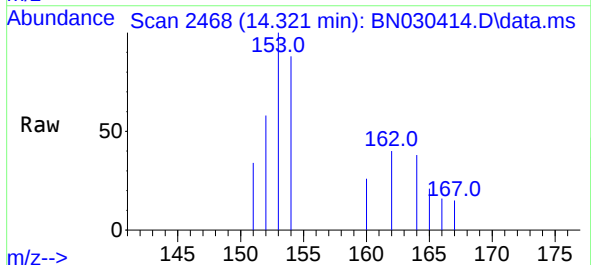
Manual Integrations  
APPROVED

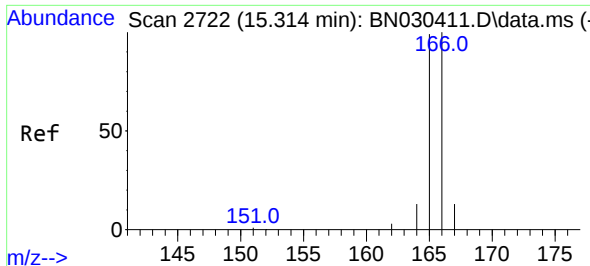
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#11  
Acenaphthene  
Concen: 0.072 ng/u1  
RT: 14.321 min Scan# 2468  
Delta R.T. 0.002 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

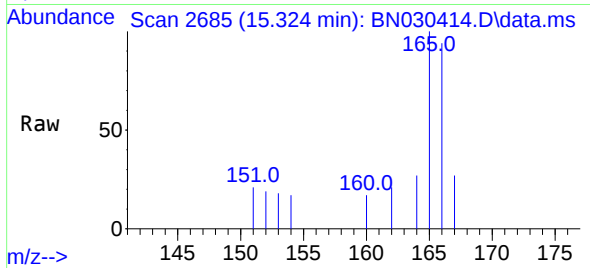
Tgt Ion:153 Resp: 575  
Ion Ratio Lower Upper  
153 100  
152 58.4 40.2 60.2  
154 88.3 69.0 103.4





#12  
Fluorene  
Concen: 0.068 ng/ul  
RT: 15.324 min Scan# 2087  
Delta R.T. 0.006 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

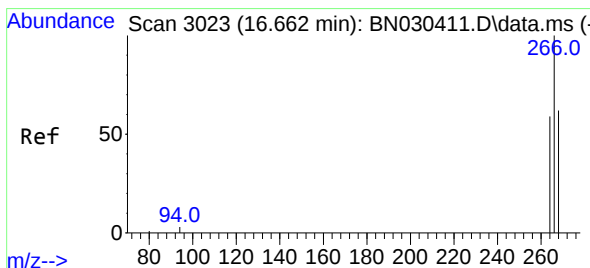
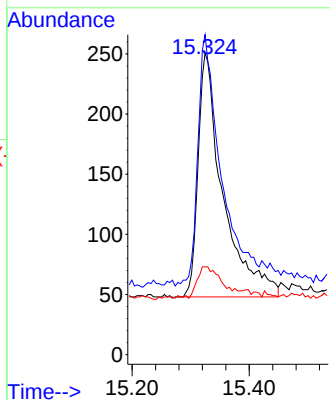
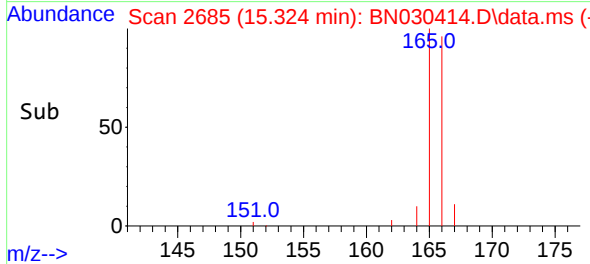
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion:166 Resp: 59  
Ion Ratio Lower Upper  
166 100  
165 106.0 78.5 117.7  
167 29.1 12.7 19.1

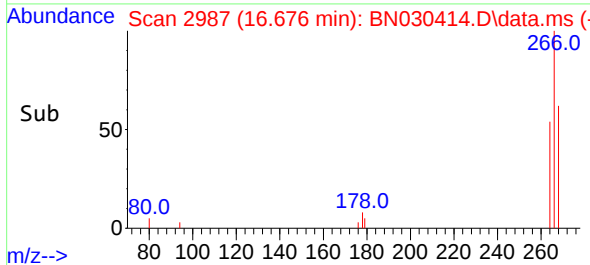
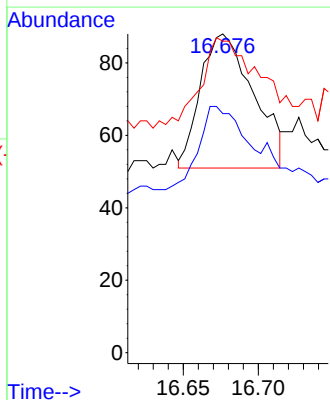
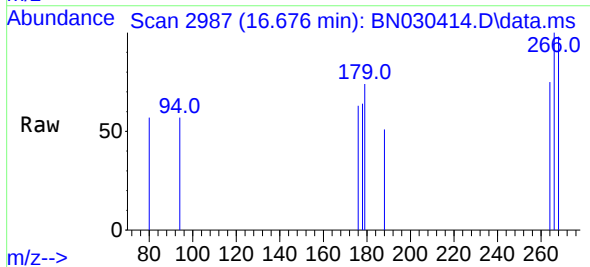
Manual Integrations  
APPROVED

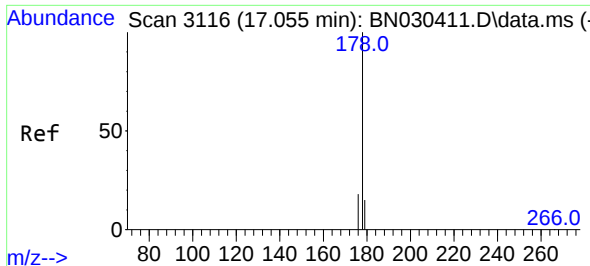
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#14  
Pentachlorophenol  
Concen: 0.077 ng/ul m  
RT: 16.676 min Scan# 2987  
Delta R.T. 0.010 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

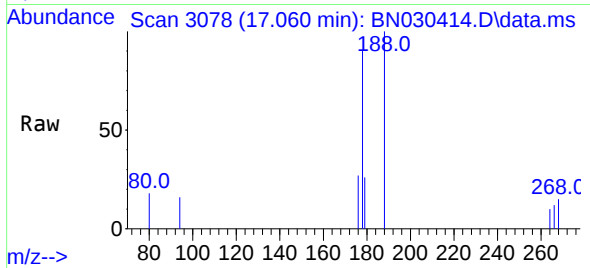
Tgt Ion:266 Resp: 91  
Ion Ratio Lower Upper  
266 100  
264 70.3 0.0 0.0#  
268 82.4 0.0 0.0#





#15  
Phenanthrene  
Concen: 0.072 ng/u1  
RT: 17.060 min Scan# 3100  
Delta R.T. 0.006 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

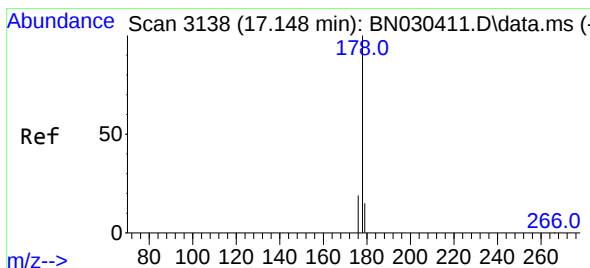
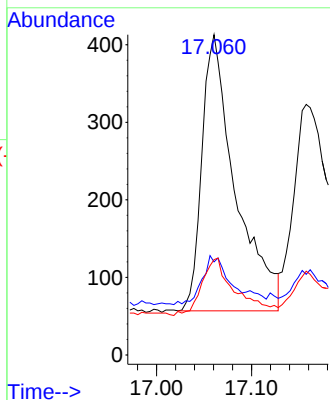
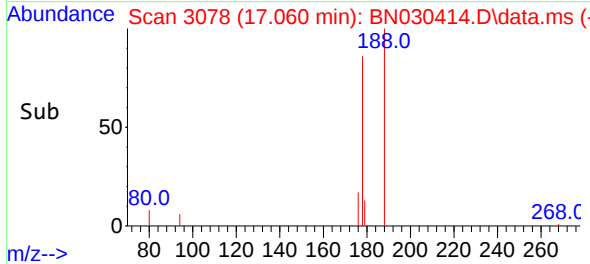
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion:178 Resp: 874  
Ion Ratio Lower Upper  
178 100  
179 29.1 14.2 21.4#  
176 29.8 16.8 25.2#

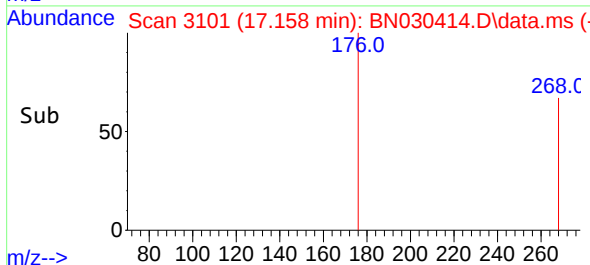
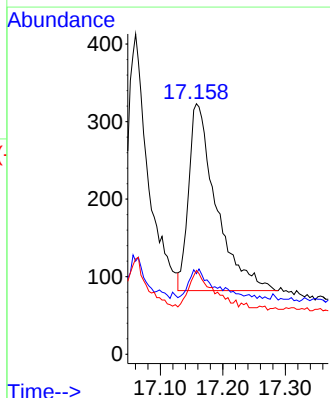
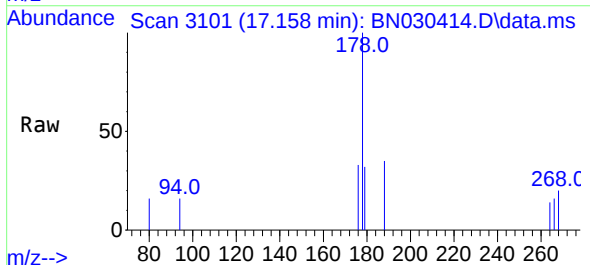
Manual Integrations  
APPROVED

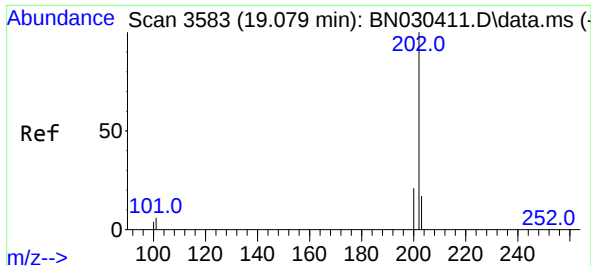
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#16  
Anthracene  
Concen: 0.066 ng/u1  
RT: 17.158 min Scan# 3101  
Delta R.T. 0.006 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

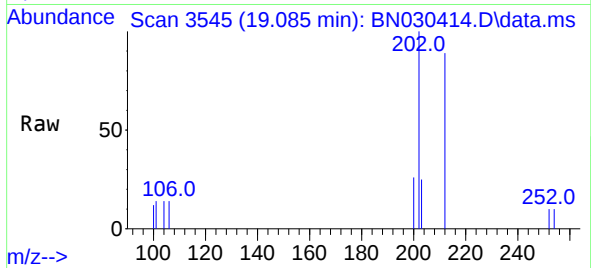
Tgt Ion:178 Resp: 737  
Ion Ratio Lower Upper  
178 100  
179 32.2 14.4 21.6#  
176 33.4 16.5 24.7#





#19  
Fluoranthene  
Concen: 0.069 ng/u1  
RT: 19.085 min Scan# 3545  
Delta R.T. 0.006 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

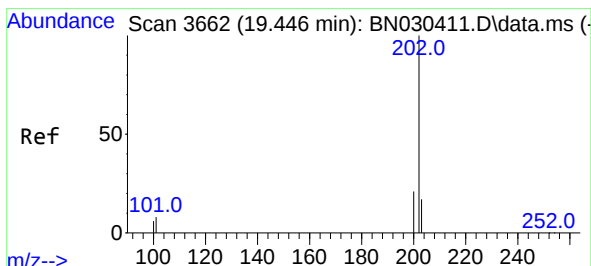
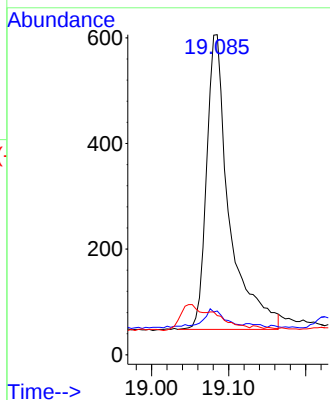
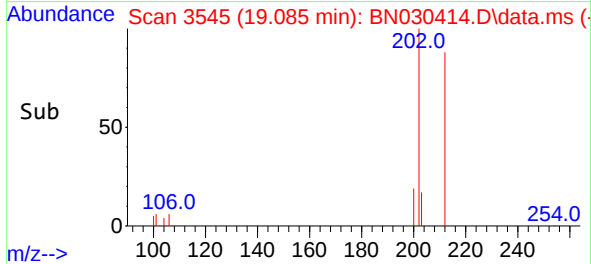
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion:202 Resp: 114  
Ion Ratio Lower Upper  
202 100  
101 13.7 5.8 8.8#  
100 12.2 5.2 7.8#

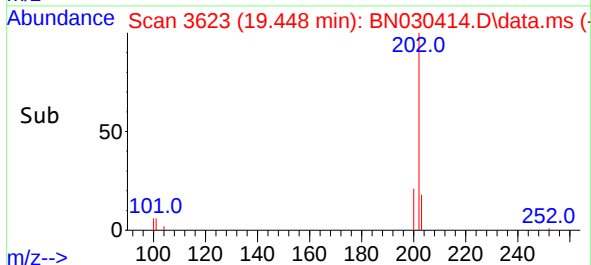
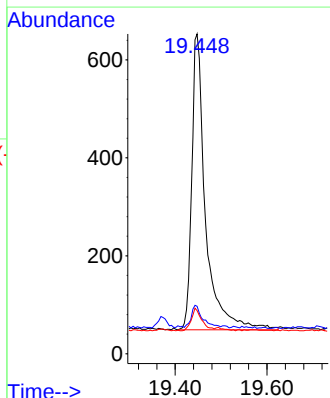
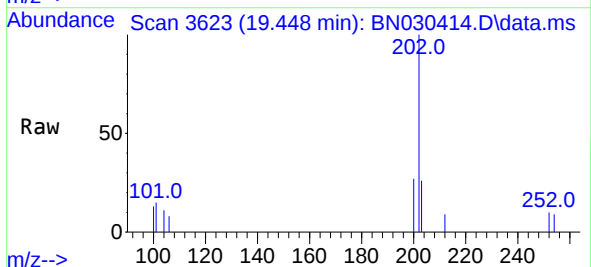
Manual Integrations  
APPROVED

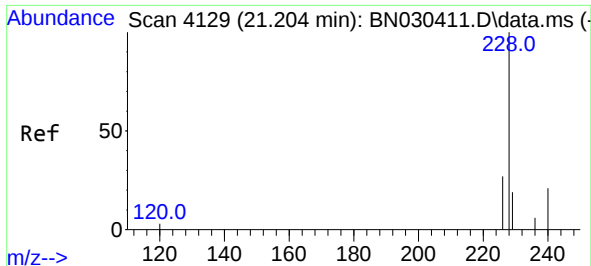
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#20  
Pyrene  
Concen: 0.071 ng/u1  
RT: 19.448 min Scan# 3623  
Delta R.T. 0.006 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

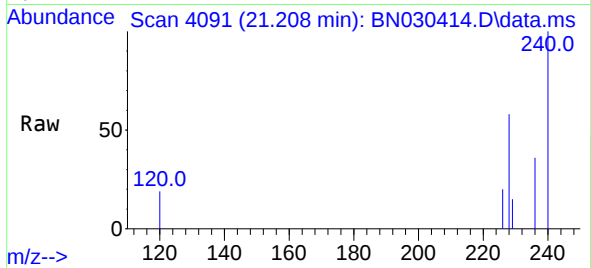
Tgt Ion:202 Resp: 1259  
Ion Ratio Lower Upper  
202 100  
101 14.9 7.0 10.6#  
100 13.5 6.2 9.4#





#21  
Benzo(a)anthracene  
Concen: 0.061 ng/u1  
RT: 21.208 min Scan# 4108  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

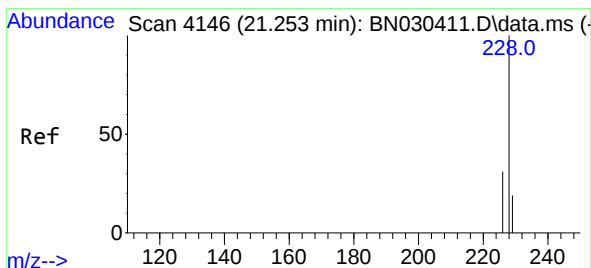
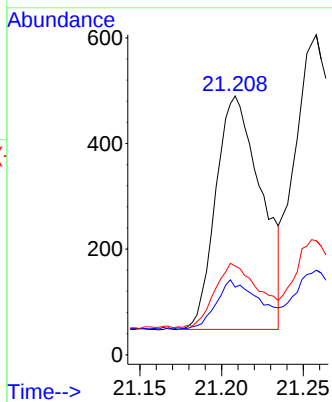
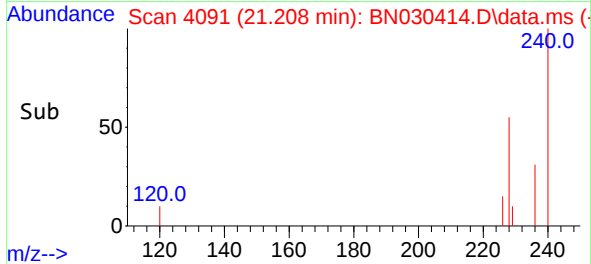
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion:228 Resp: 85  
Ion Ratio Lower Upper  
228 100  
229 26.1 16.4 24.6  
226 34.3 22.7 34.1

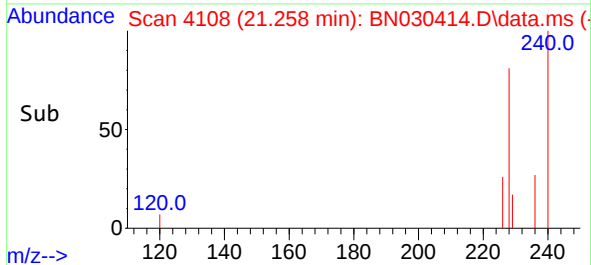
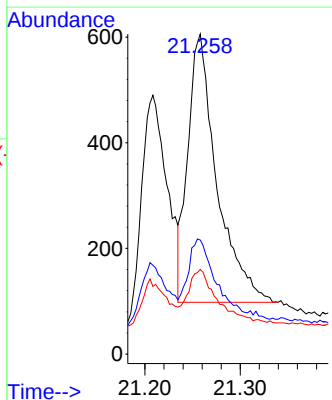
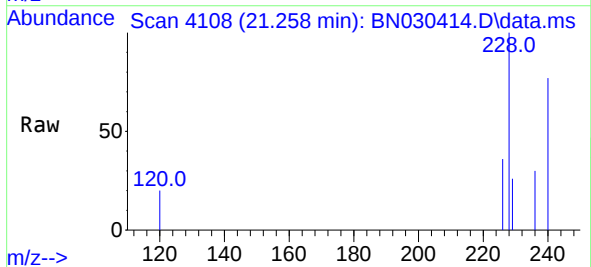
Manual Integrations  
APPROVED

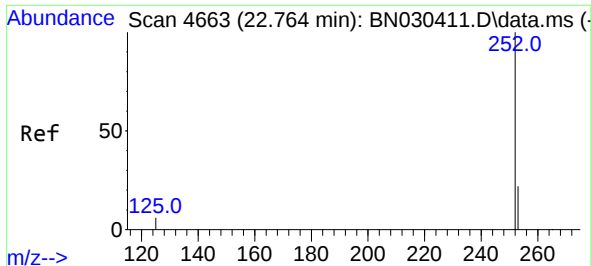
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#22  
Chrysene  
Concen: 0.066 ng/u1  
RT: 21.258 min Scan# 4108  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

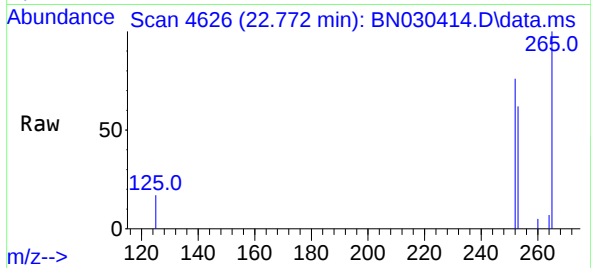
Tgt Ion:228 Resp: 1076  
Ion Ratio Lower Upper  
228 100  
226 35.6 25.6 38.4  
229 26.4 16.6 25.0





#24  
Benzo(b)fluoranthene  
Concen: 0.064 ng/ul  
RT: 22.772 min Scan# 4626  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

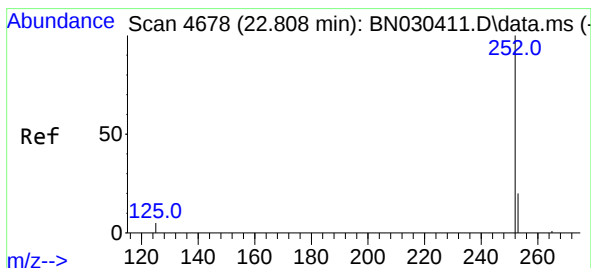
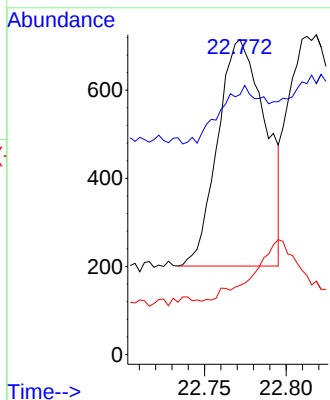
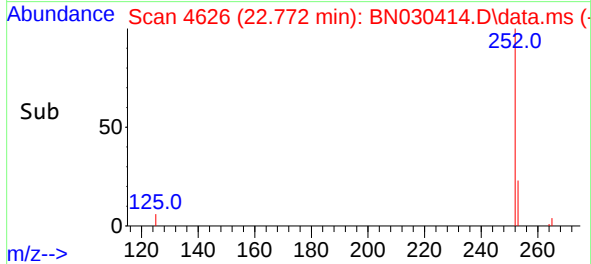
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



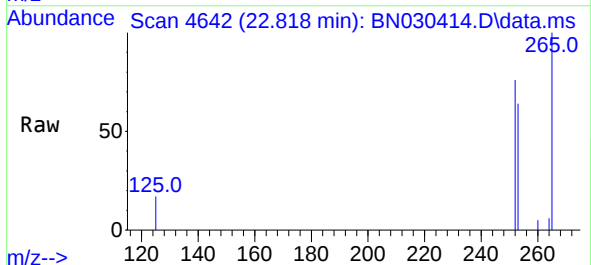
Tgt Ion:252 Resp: 1045  
Ion Ratio Lower Upper  
252 100  
253 82.5 0.0 71.4#  
125 22.0 0.0 18.6#

Manual Integrations  
APPROVED

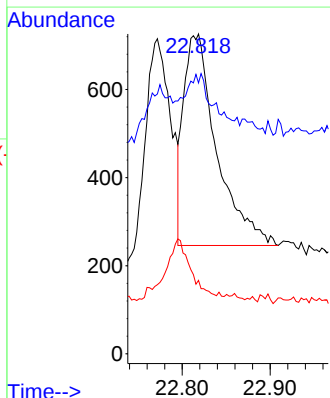
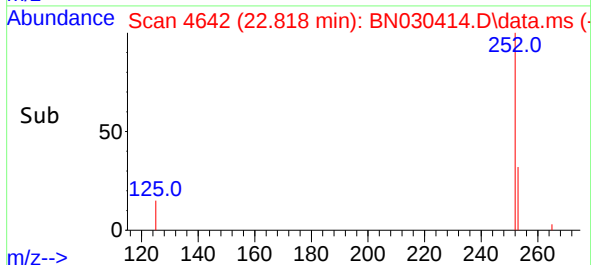
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024

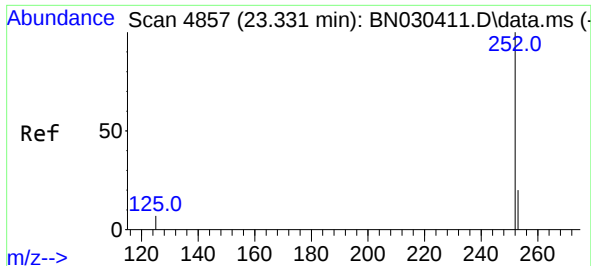


#25  
Benzo(k)fluoranthene  
Concen: 0.063 ng/ul  
RT: 22.818 min Scan# 4642  
Delta R.T. 0.010 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34



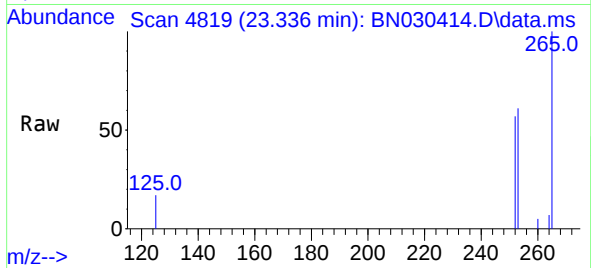
Tgt Ion:252 Resp: 1254  
Ion Ratio Lower Upper  
252 100  
253 84.7 27.7 41.5#  
125 23.0 8.0 12.0#





#26  
Benzo(a)pyrene  
Concen: 0.069 ng/ul  
RT: 23.336 min Scan# 4857  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

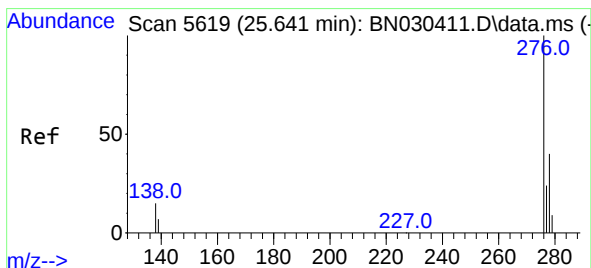
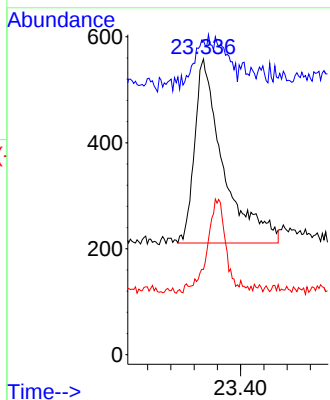
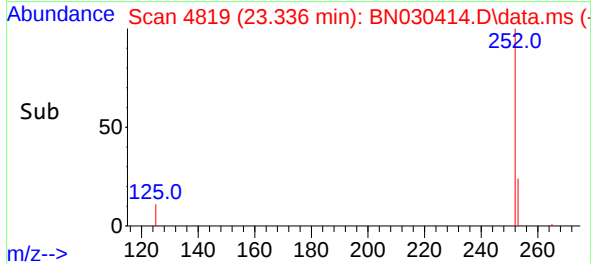
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion:252 Resp: 1190  
Ion Ratio Lower Upper  
252 100  
253 106.3 34.4 51.6  
125 28.9 9.0 13.4

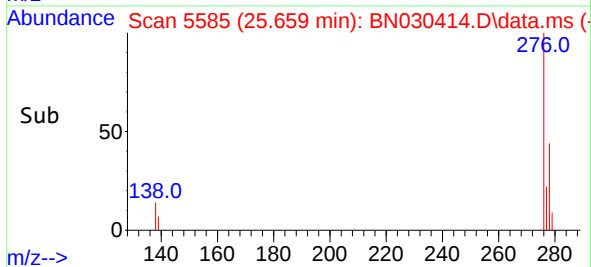
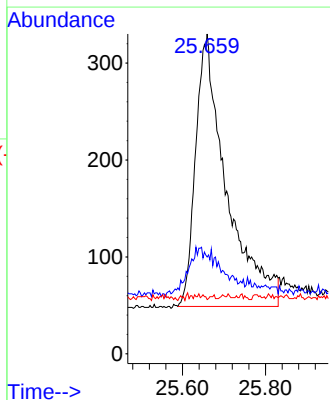
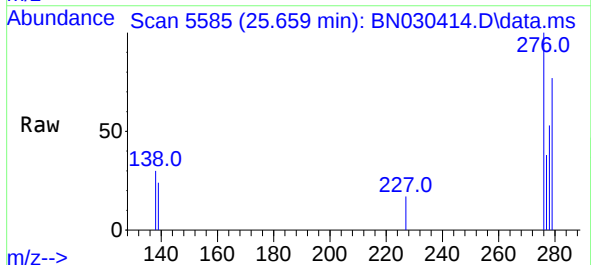
Manual Integrations  
APPROVED

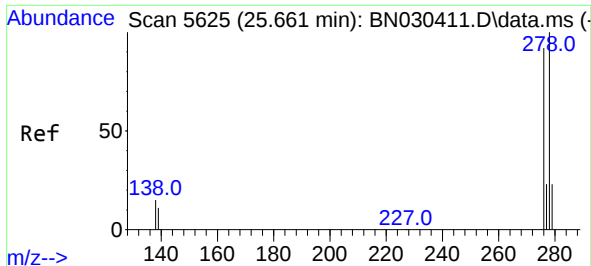
Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.064 ng/ul  
RT: 25.659 min Scan# 5585  
Delta R.T. 0.022 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

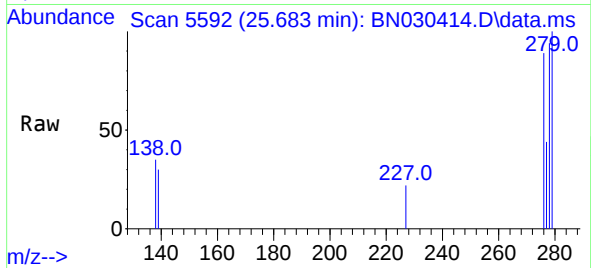
Tgt Ion:276 Resp: 1451  
Ion Ratio Lower Upper  
276 100  
138 0.0 9.8 14.6#  
227 0.1 0.0 0.0#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.064 ng/ul  
RT: 25.683 min Scan# 5592  
Delta R.T. 0.022 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

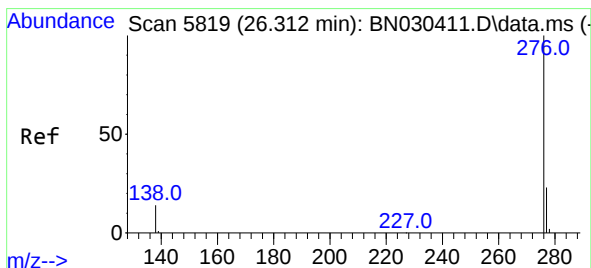
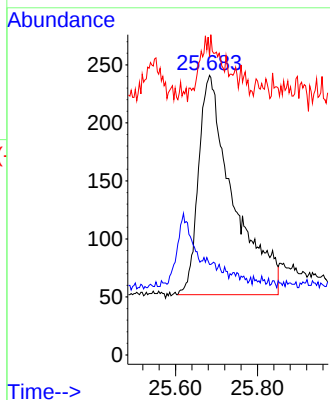
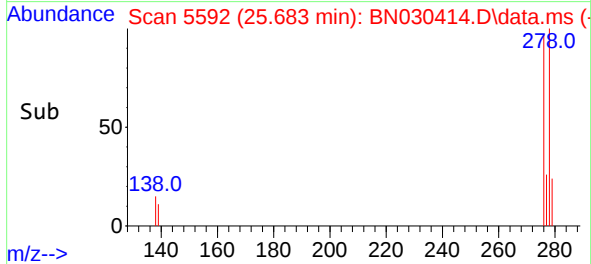
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT1-2024-01



Tgt Ion:278 Resp: 1110  
Ion Ratio Lower Upper  
278 100  
139 32.4 12.2 18.2  
279 106.6 31.8 47.6

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/15/2024  
Supervised By :mohammad ahmed 03/16/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.067 ng/ul  
RT: 26.317 min Scan# 5781  
Delta R.T. 0.008 min  
Lab File: BN030414.D  
Acq: 15 Mar 2024 11:34

Tgt Ion:276 Resp: 1356  
Ion Ratio Lower Upper  
276 100  
138 28.8 13.4 20.2#  
277 37.6 20.6 31.0#

