

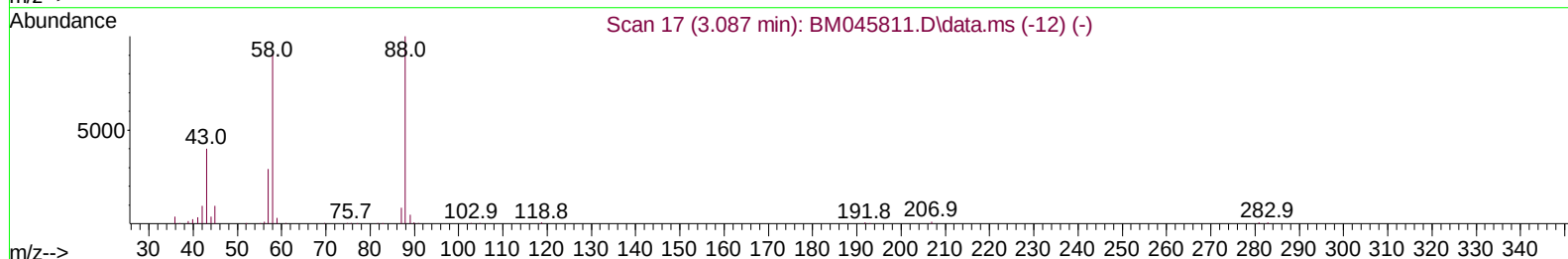
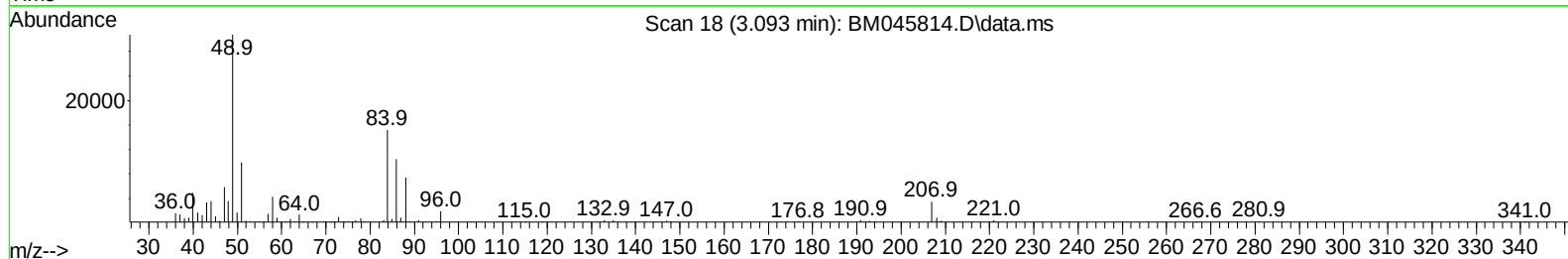
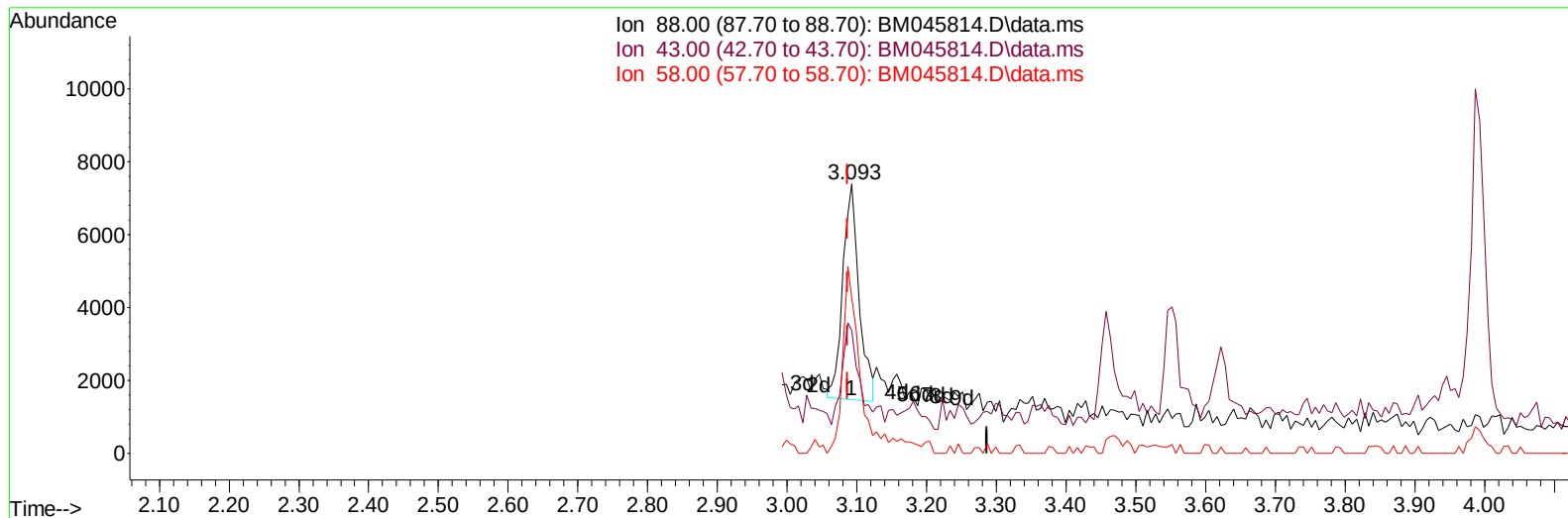
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
Data File : BM045814.D  
Acq On : 04 Jun 2024 13:09  
Operator : MA/JU  
Sample : P2409-04  
Misc : SFAM-SOIL-MDL-02  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT2-2024-04

Manual IntegrationsAPPROVED

Quant Time: Jun 04 13:41:18 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 31 13:01:11 2024  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/07/2024



TIC: BM045814.D\data.ms

(2) 1,4-Dioxane

3.093min (+ 0.006) 1.27 ng/uL

response 9525

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 88.00 | 100.00 | 100.00 |
| 43.00 | 43.90  | 45.71  |
| 58.00 | 84.30  | 57.58# |
| 0.00  | 0.00   | 0.00   |

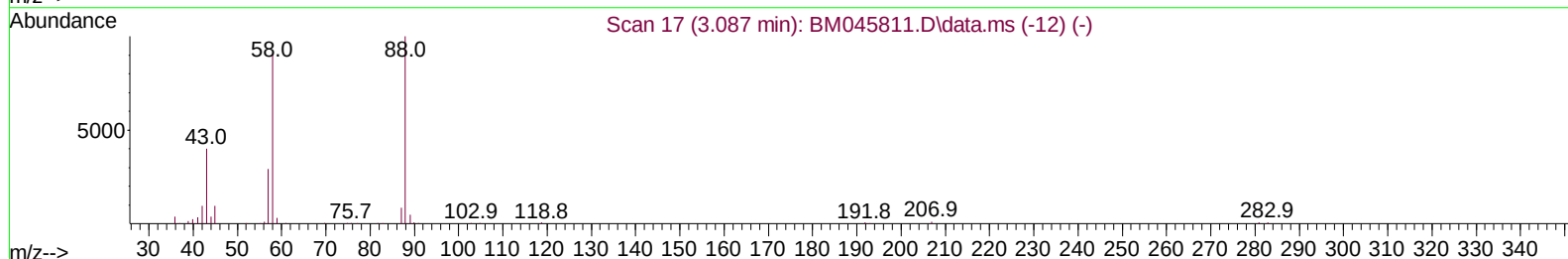
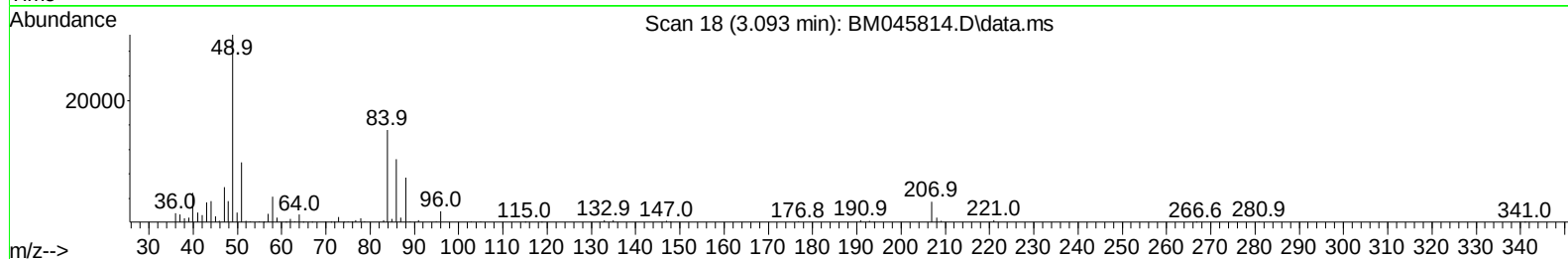
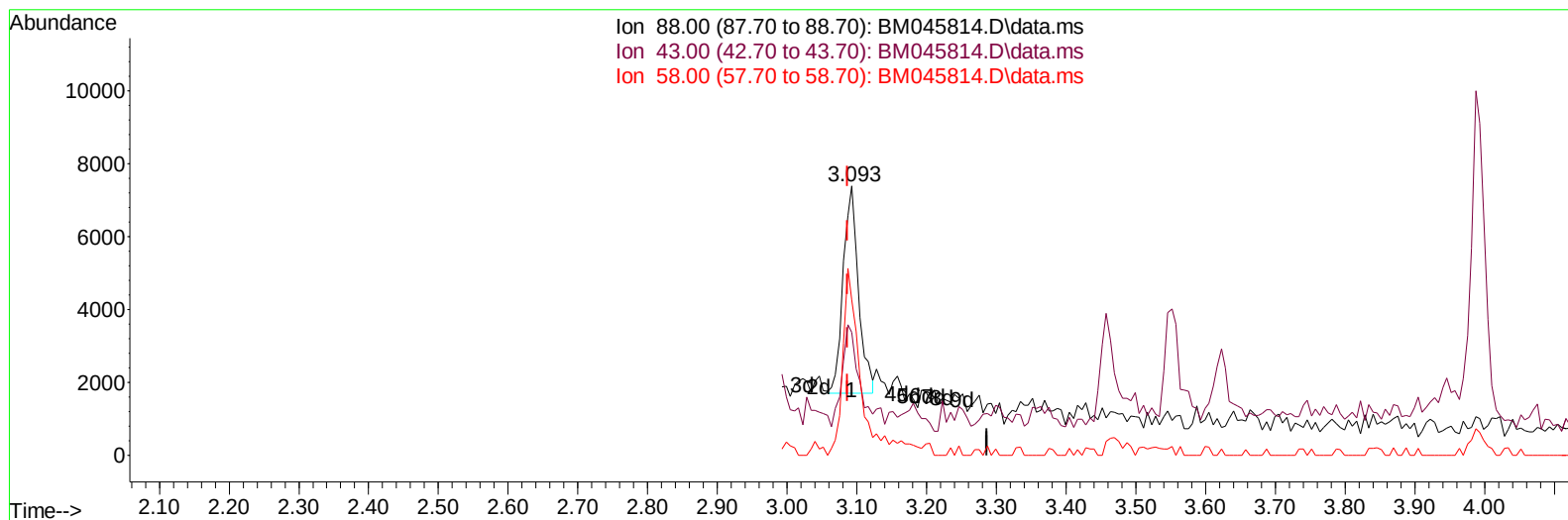
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
Data File : BM045814.D  
Acq On : 04 Jun 2024 13:09  
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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT2-2024-04

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/07/2024

Quant Time: Jun 04 13:41:18 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 31 13:01:11 2024  
Response via : Initial Calibration



TIC: BM045814.D\data.ms

## (2) 1,4-Dioxane

3.093min (+ 0.006) 1.15 ng/uL m

response 8630

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 88.00 | 100.00 | 100.00 |
| 43.00 | 43.90  | 45.71  |
| 58.00 | 84.30  | 57.58# |
| 0.00  | 0.00   | 0.00   |

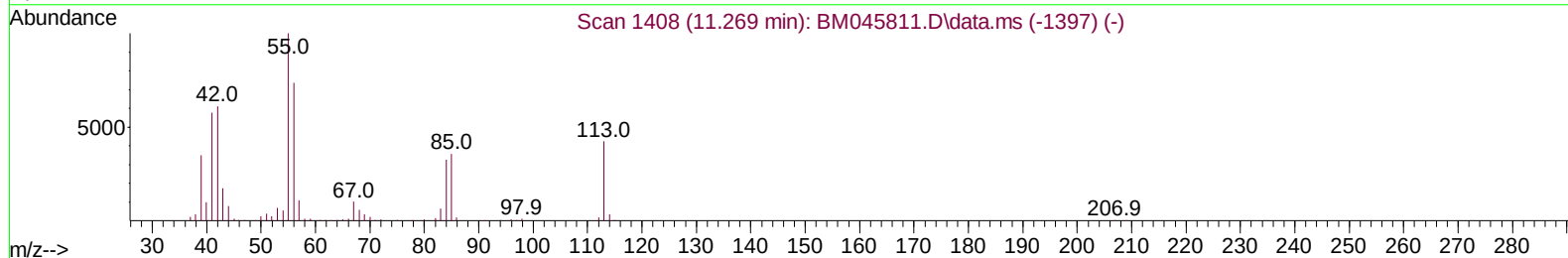
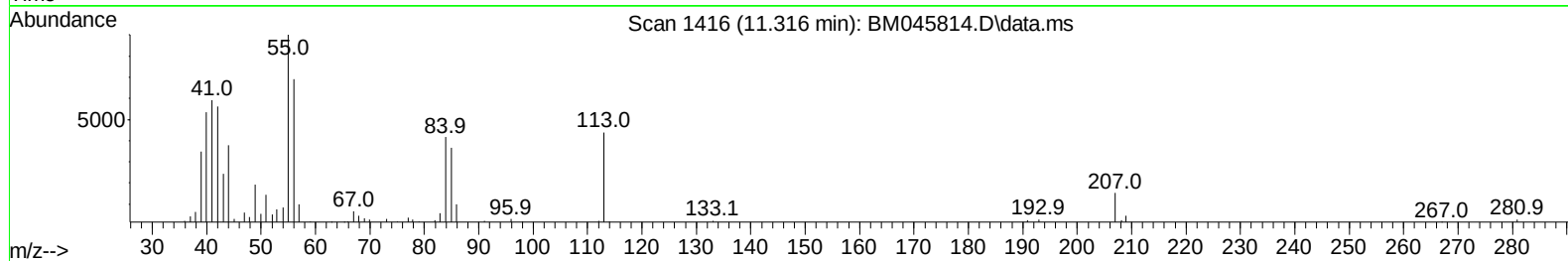
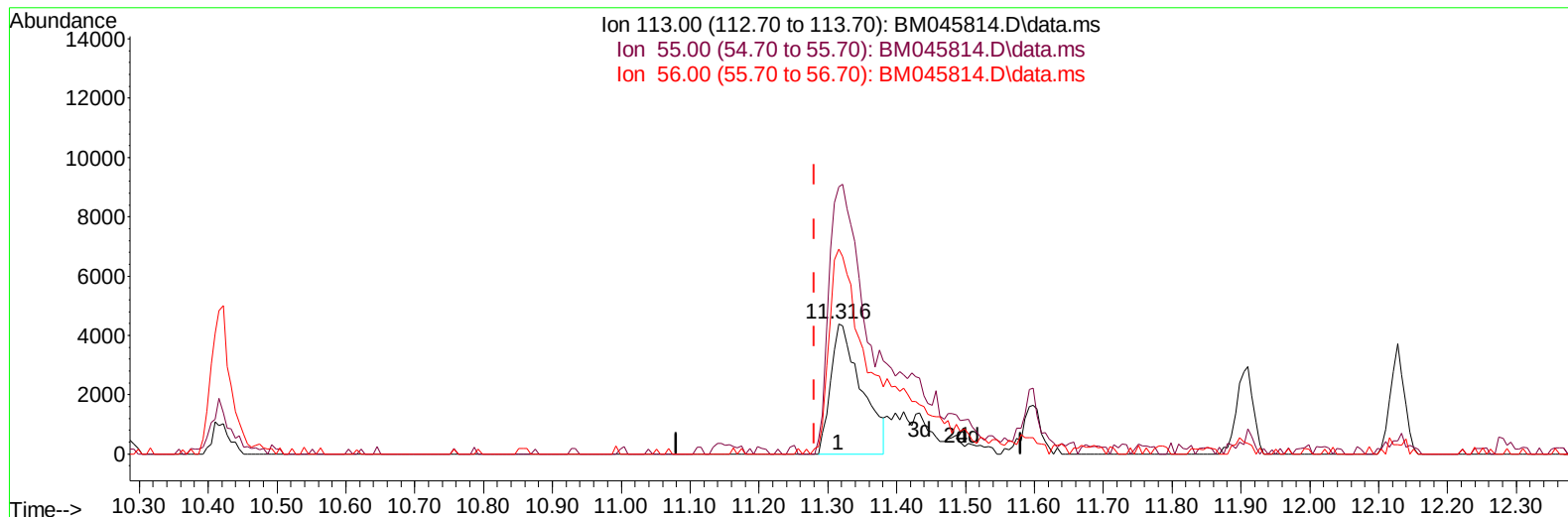
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
Data File : BM045814.D  
Acq On : 04 Jun 2024 13:09  
Operator : MA/JU  
Sample : P2409-04  
Misc : SFAM-SOIL-MDL-02  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT2-2024-04

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/07/2024

Quant Time: Jun 04 13:41:18 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 31 13:01:11 2024  
Response via : Initial Calibration



TIC: BM045814.D\data.ms

## (34) Caprolactam

11.316min (+ 0.035) 3.05 ng/ul

response 13519

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 224.40 | 205.24 |
| 56.00  | 162.60 | 157.33 |
| 0.00   | 0.00   | 0.00   |

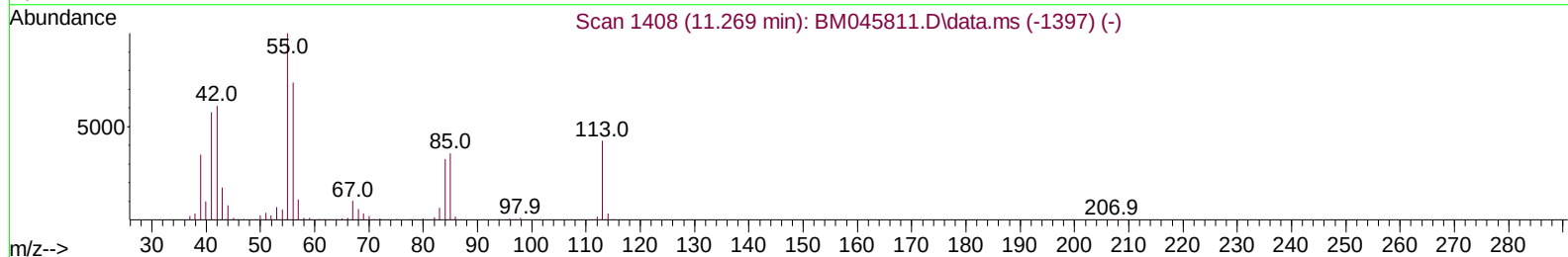
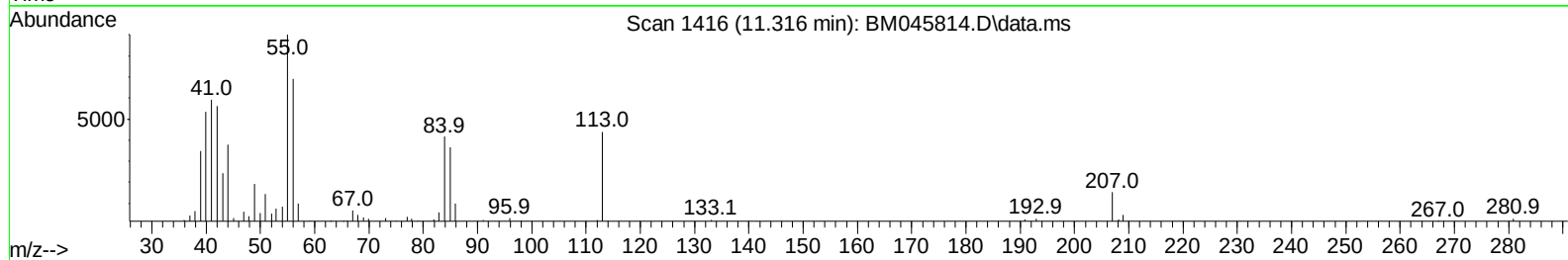
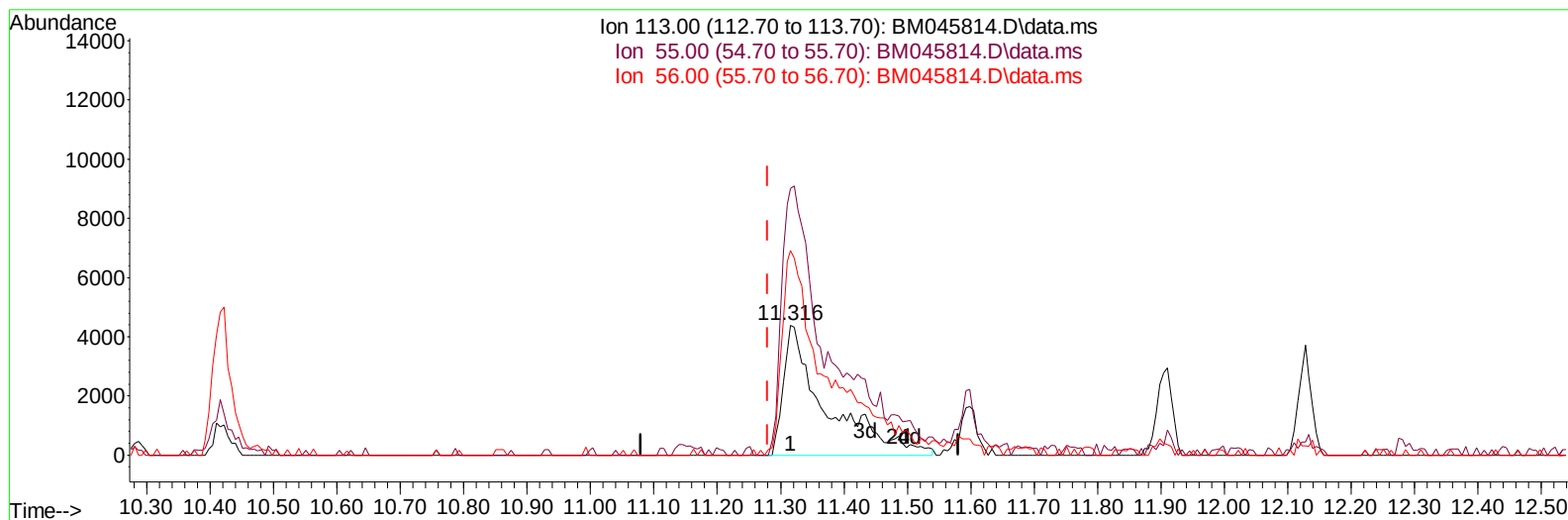
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045814.D  
 Acq On : 04 Jun 2024 13:09  
 Operator : MA/JU  
 Sample : P2409-04  
 Misc : SFAM-SOIL-MDL-02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT2-2024-04

Manual IntegrationsAPPROVED

Quant Time: Jun 04 13:41:18 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/07/2024



TIC: BM045814.D\data.ms

**(34) Caprolactam**

11.316min (+ 0.035) 4.60 ng/ul m

response 20407

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 224.40 | 205.24 |
| 56.00  | 162.60 | 157.33 |
| 0.00   | 0.00   | 0.00   |

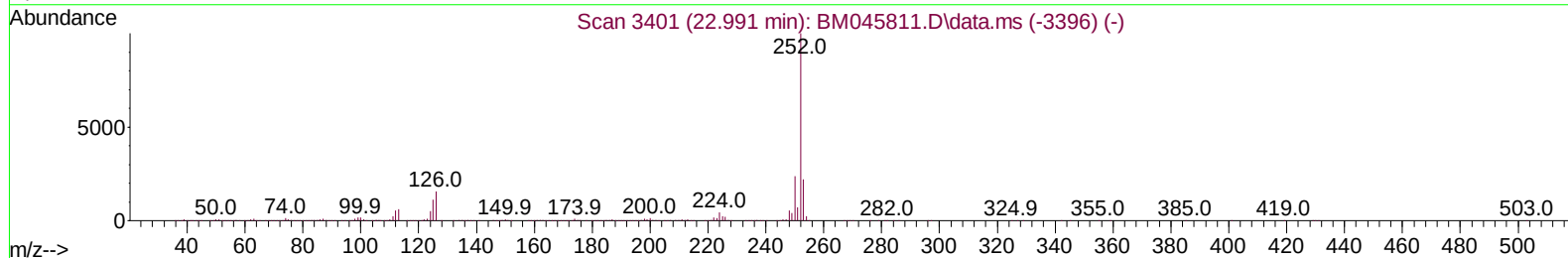
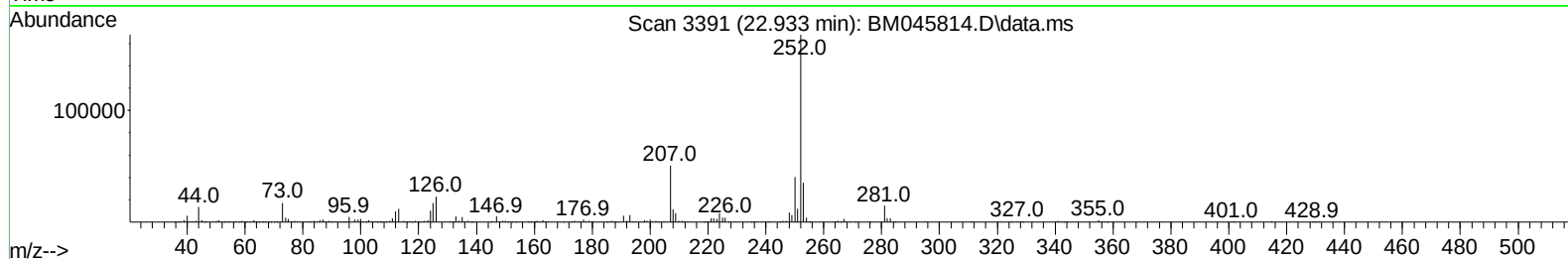
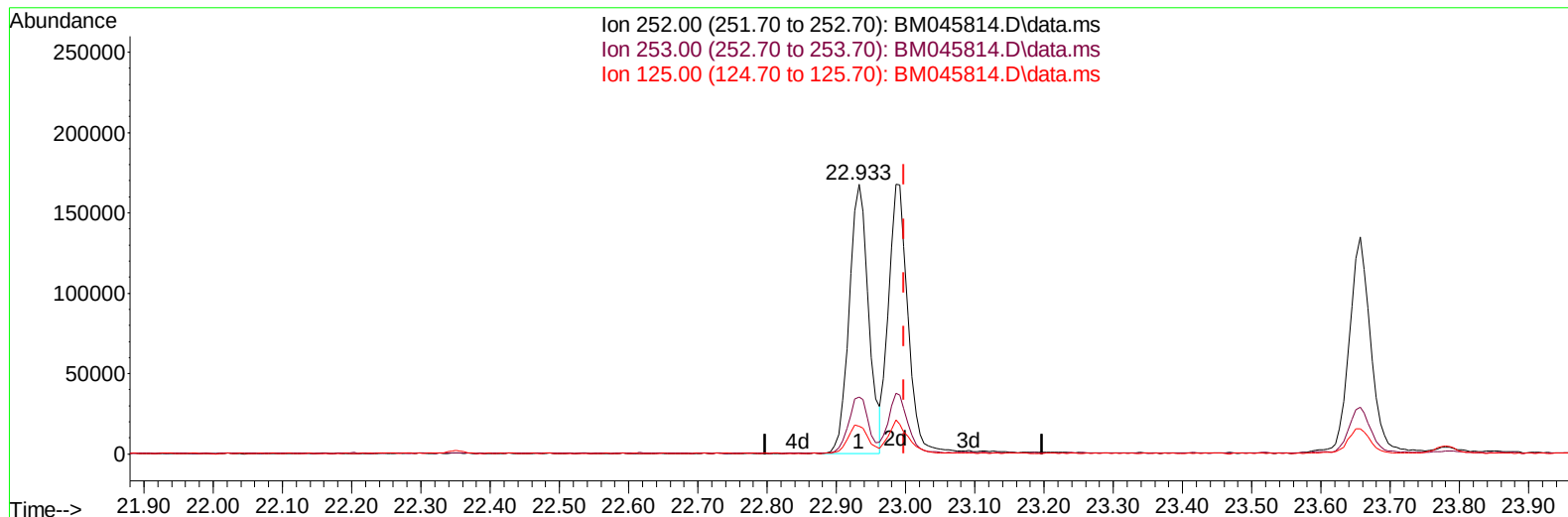
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045814.D  
 Acq On : 04 Jun 2024 13:09  
 Operator : MA/JU  
 Sample : P2409-04  
 Misc : SFAM-SOIL-MDL-02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT2-2024-04

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/07/2024

Quant Time: Jun 04 13:41:18 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration



TIC: BM045814.D\data.ms

## (91) Benzo(k)fluoranthene

22.933min (-0.065) 4.74 ng/u1

response 324508

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 21.00  | 21.03  |
| 125.00 | 10.30  | 10.22  |
| 0.00   | 0.00   | 0.00   |

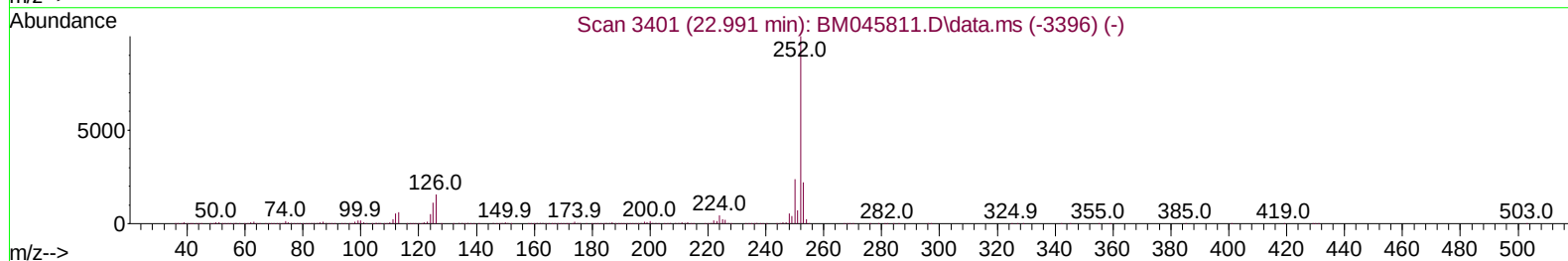
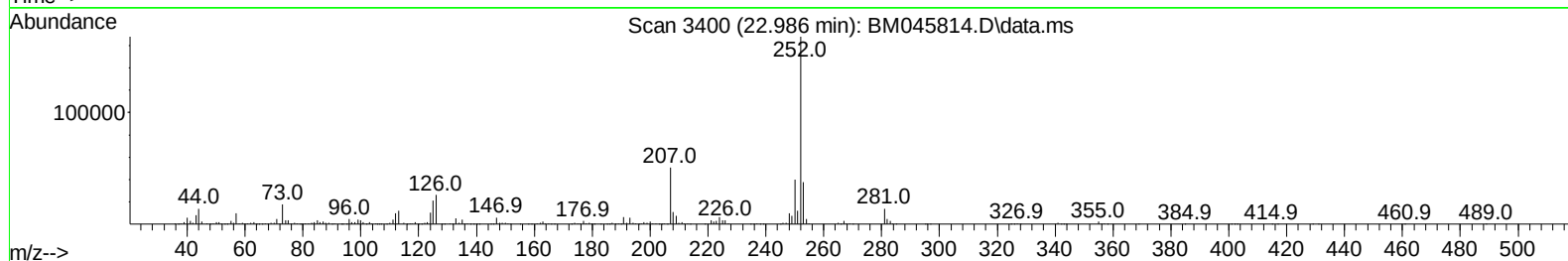
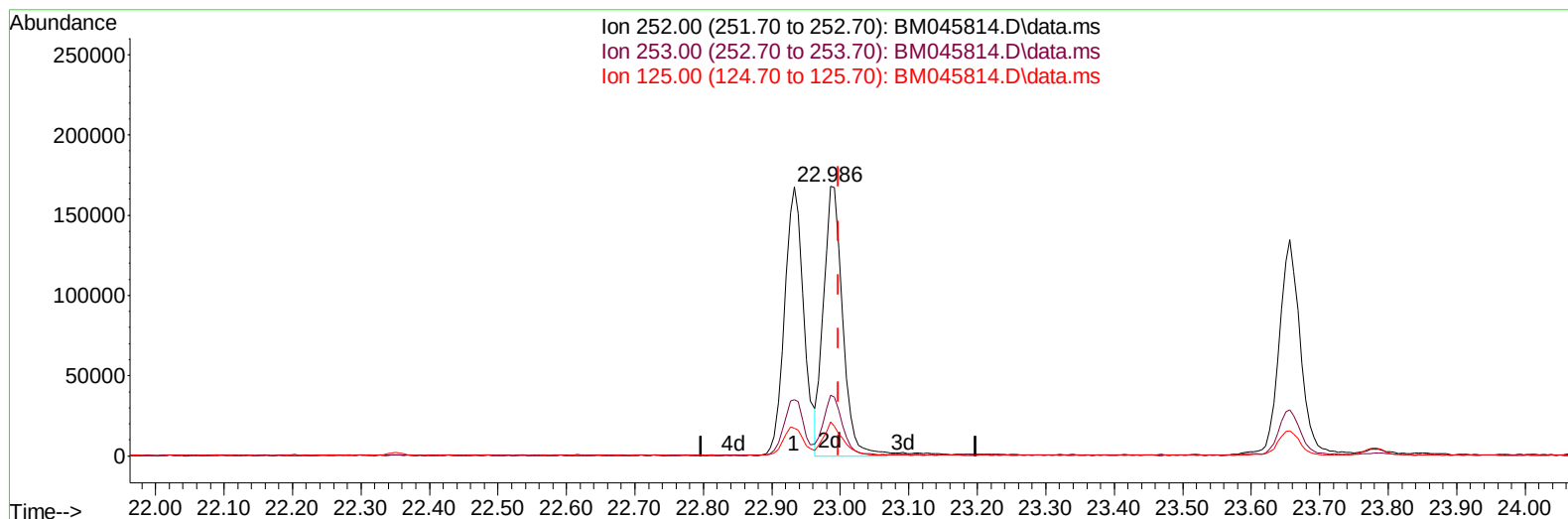
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045814.D  
 Acq On : 04 Jun 2024 13:09  
 Operator : MA/JU  
 Sample : P2409-04  
 Misc : SFAM-SOIL-MDL-02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT2-2024-04

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/07/2024

Quant Time: Jun 04 13:41:18 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration



TIC: BM045814.D\data.ms

## (91) Benzo(k)fluoranthene

22.986min (-0.012) 4.78 ng/ul m

response 326974

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 21.00  | 22.48  |
| 125.00 | 10.30  | 12.56# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045814.D  
 Acq On : 04 Jun 2024 13:09  
 Operator : MA/JU  
 Sample : P2409-04  
 Misc : SFAM-SOIL-MDL-02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT2-2024-04

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
 Supervised By :mohammad ahmed 06/07/2024

Quant Time: Jun 04 13:43:24 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.463  | 152  | 262685   | 20.000 | ng/uI  | 0.00     |
| 20) Naphthalene-d8            | 10.234 | 136  | 1064269  | 20.000 | ng/uI  | 0.00     |
| 38) Acenaphthene-d10          | 14.110 | 164  | 642690   | 20.000 | ng/uI  | 0.00     |
| 64) Phenanthrene-d10          | 16.857 | 188  | 1296039  | 20.000 | ng/uI  | 0.00     |
| 79) Chrysene-d12              | 21.068 | 240  | 1103094  | 20.000 | ng/uI  | 0.00     |
| 88) Perylene-d12              | 23.786 | 264  | 1140478  | 20.000 | ng/uI  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.052  | 96   | 33142    | 4.892  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.463  | 84   | 417863   | 23.953 | ng/uI  | 0.00     |
| 7) Phenol-d5                  | 6.716  | 99   | 556561   | 24.940 | ng/uI  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.828  | 67   | 406743   | 25.383 | ng/uI  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.028  | 132  | 419091   | 25.142 | ng/uI  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.234  | 113  | 393733   | 23.354 | ng/uI  | 0.00     |
| 21) Nitrobenzene-d5           | 8.628  | 128  | 209876   | 25.222 | ng/uI  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.340  | 143  | 209492   | 24.875 | ng/uI  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.892  | 165  | 370133   | 23.437 | ng/uI  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.416 | 131  | 507792   | 23.232 | ng/uI  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.557 | 166  | 1124241  | 25.268 | ng/uI  | 0.00     |
| 49) Acenaphthylene-d8         | 13.798 | 160  | 1253900  | 24.269 | ng/uI  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.404 | 143  | 186753   | 19.449 | ng/uI  | 0.00     |
| 60) Fluorene-d10              | 15.104 | 176  | 959617   | 25.281 | ng/uI  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.245 | 200  | 127331   | 19.239 | ng/uI  | 0.00     |
| 73) Anthracene-d10            | 16.951 | 188  | 1239357  | 21.997 | ng/uI  | 0.00     |
| 81) Pyrene-d10                | 19.251 | 212  | 1578578  | 23.011 | ng/uI  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.603 | 264  | 1333361  | 25.015 | ng/uI  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.093  | 88   | 8630m    | 1.151  | ng/uL  |          |
| 5) Pyridine                   | 3.487  | 79   | 79760    | 4.452  | ng/uI# | 36       |
| 6) Benzaldehyde               | 6.640  | 77   | 73624    | 7.014  | ng/uI  | 95       |
| 8) Phenol                     | 6.746  | 94   | 108288   | 4.679  | ng/uI  | 97       |
| 10) Bis(2-Chloroethyl)ether   | 6.922  | 93   | 91314    | 4.727  | ng/uI  | 99       |
| 12) 2-Chlorophenol            | 7.057  | 128  | 82320    | 4.688  | ng/uI  | 99       |
| 13) 2-Methylphenol            | 7.969  | 108  | 69111    | 4.078  | ng/uI  | 100      |
| 14) 2,2'-oxybis(1-Chloropr... | 8.010  | 45   | 189382   | 4.977  | ng/uI  | 100      |
| 16) Acetophenone              | 8.310  | 105  | 135784   | 4.832  | ng/uI  | 95       |
| 17) N-Nitroso-di-n-propyla... | 8.298  | 70   | 72188    | 4.649  | ng/uI  | 95       |
| 18) 4-Methylphenol            | 8.298  | 108  | 79661    | 4.543  | ng/uI  | 100      |
| 19) Hexachloroethane          | 8.534  | 117  | 38829    | 4.604  | ng/uI  | 94       |
| 22) Nitrobenzene              | 8.669  | 77   | 116431   | 5.000  | ng/uI  | 99       |
| 23) Isophorone                | 9.222  | 82   | 184937   | 4.494  | ng/uI  | 99       |
| 25) 2-Nitrophenol             | 9.375  | 139  | 41437    | 4.501  | ng/uI  | 96       |
| 26) 2,4-Dimethylphenol        | 9.481  | 107  | 40001    | 2.142  | ng/uI  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 9.698  | 93   | 115807   | 4.636  | ng/uI  | 98       |
| 29) 2,4-Dichlorophenol        | 9.916  | 162  | 72309    | 4.596  | ng/uI  | 93       |
| 30) Naphthalene               | 10.281 | 128  | 271937   | 4.792  | ng/uI  | 100      |
| 32) 4-Chloroaniline           | 10.439 | 127  | 96879    | 4.534  | ng/uI  | 94       |
| 33) Hexachlorobutadiene       | 10.581 | 225  | 48948    | 4.541  | ng/uI  | 99       |
| 34) Caprolactam               | 11.316 | 113  | 20407m   | 4.605  | ng/uI  |          |
| 35) 4-Chloro-3-methylphenol   | 11.598 | 107  | 74420    | 4.360  | ng/uI  | 96       |

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 Sample : P2409-04  
 Misc : SFAM-SOIL-MDL-02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT2-2024-04

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 06/04/2024  
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Quant Time: Jun 04 13:43:24 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 36) 2-Methylnaphthalene       | 11.904 | 142  | 178448   | 4.748 | ng/ul  | 95       |
| 37) 1-Methylnaphthalene       | 12.128 | 142  | 179890   | 4.787 | ng/ul  | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.275 | 216  | 90000    | 4.676 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.269 | 237  | 70554    | 6.040 | ng/ul  | 100      |
| 41) 2,4,6-Trichlorophenol     | 12.551 | 196  | 42274    | 3.775 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 12.633 | 196  | 48901    | 4.024 | ng/ul  | 100      |
| 43) 1,1'-Biphenyl             | 12.945 | 154  | 227696   | 4.775 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 12.975 | 162  | 174891   | 4.680 | ng/ul  | 98       |
| 45) 2-Nitroaniline            | 13.222 | 65   | 52703    | 4.130 | ng/ul  | 94       |
| 47) Dimethylphthalate         | 13.610 | 163  | 216228   | 4.786 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 13.710 | 165  | 35615    | 4.098 | ng/ul# | 80       |
| 50) Acenaphthylene            | 13.827 | 152  | 283771   | 4.746 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.063 | 138  | 31418    | 3.937 | ng/ul  | 98       |
| 52) Acenaphthene              | 14.174 | 153  | 189259   | 4.743 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.245 | 184  | 21918    | 5.539 | ng/ul  | 94       |
| 55) 4-Nitrophenol             | 14.416 | 109  | 40968    | 5.171 | ng/ul  | 91       |
| 56) Dibenzofuran              | 14.516 | 168  | 261029   | 4.851 | ng/ul  | 98       |
| 57) 2,4-Dinitrotoluene        | 14.504 | 165  | 54547    | 4.536 | ng/ul# | 77       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.763 | 232  | 38792    | 4.225 | ng/ul# | 94       |
| 59) Diethylphthalate          | 14.980 | 149  | 215973   | 4.774 | ng/ul  | 99       |
| 61) Fluorene                  | 15.163 | 166  | 212793   | 4.908 | ng/ul  | 100      |
| 62) 4-Chlorophenyl-phenyle... | 15.169 | 204  | 101202   | 4.702 | ng/ul  | 98       |
| 63) 4-Nitroaniline            | 15.239 | 138  | 35098    | 5.296 | ng/ul# | 52       |
| 66) 4,6-Dinitro-2-methylph... | 15.257 | 198  | 32156    | 4.427 | ng/ul# | 75       |
| 67) N-Nitrosodiphenylamine    | 15.392 | 169  | 160329   | 4.365 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.057 | 248  | 59412    | 4.397 | ng/ul  | 94       |
| 69) Hexachlorobenzene         | 16.163 | 284  | 67108    | 4.491 | ng/ul  | 97       |
| 70) Atrazine                  | 16.368 | 200  | 60657    | 5.448 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.527 | 266  | 54069    | 7.131 | ng/ul  | 95       |
| 72) Phenanthrene              | 16.898 | 178  | 323713   | 4.740 | ng/ul  | 98       |
| 74) Anthracene                | 16.986 | 178  | 285180   | 4.181 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 12.898 | 216  | 83724    | 4.165 | ng/uL  | 97       |
| 76) Pentachlorobenzene        | 14.427 | 250  | 87741    | 4.667 | ng/uL  | 98       |
| 77) Carbazole                 | 17.274 | 167  | 273766   | 4.704 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 17.851 | 149  | 341307   | 4.459 | ng/ul  | 99       |
| 80) Fluoranthene              | 18.915 | 202  | 356631   | 4.288 | ng/ul  | 98       |
| 82) Pyrene                    | 19.280 | 202  | 373968   | 4.377 | ng/ul  | 98       |
| 83) Butylbenzylphthalate      | 20.215 | 149  | 136507   | 3.920 | ng/ul  | 94       |
| 84) 3,3'-Dichlorobenzidine    | 20.998 | 252  | 72310    | 3.319 | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 21.045 | 228  | 340059   | 4.465 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.003 | 149  | 209354   | 4.046 | ng/ul  | 99       |
| 87) Chrysene                  | 21.103 | 228  | 316579   | 4.493 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.033 | 149  | 329761   | 3.781 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 22.933 | 252  | 324508   | 4.630 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 22.986 | 252  | 326974m  | 4.776 | ng/ul  |          |
| 93) Benzo(a)pyrene            | 23.656 | 252  | 289811   | 4.706 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.780 | 276  | 317070   | 4.714 | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.832 | 278  | 245094   | 4.607 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 27.709 | 276  | 284093   | 4.796 | ng/ul  | 98       |

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



**Instrument :**

BNA\_M

**ClientSampleId :**

MDL-SOIL-QT2-2024-04

**Manual IntegrationsAPPROVED**

Reviewed By :Jagrut Upadhyay 06/04/2024  
Supervised By :mohammad ahmed 06/07/2024

