

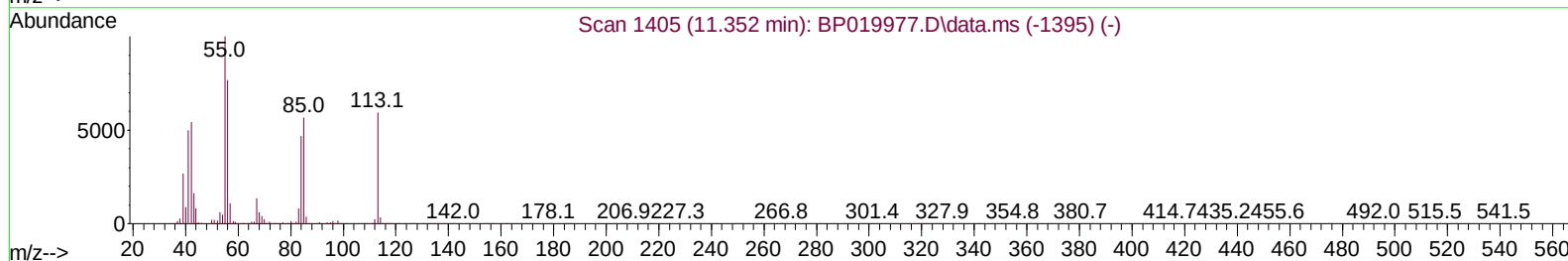
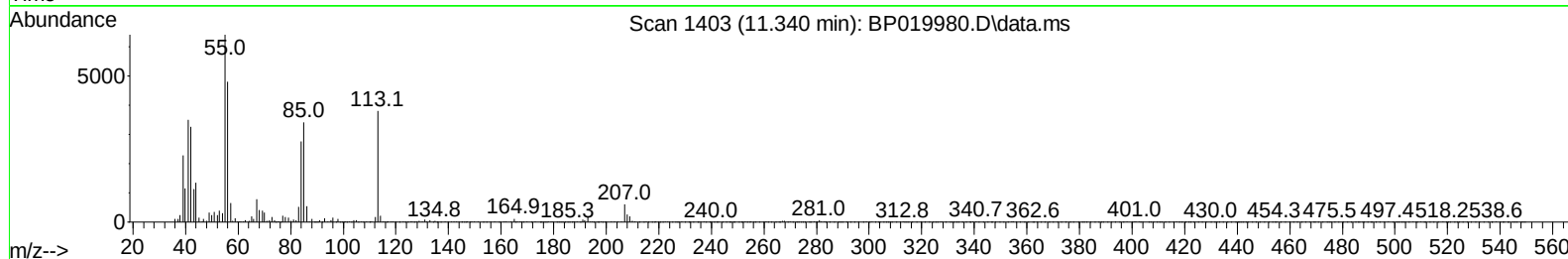
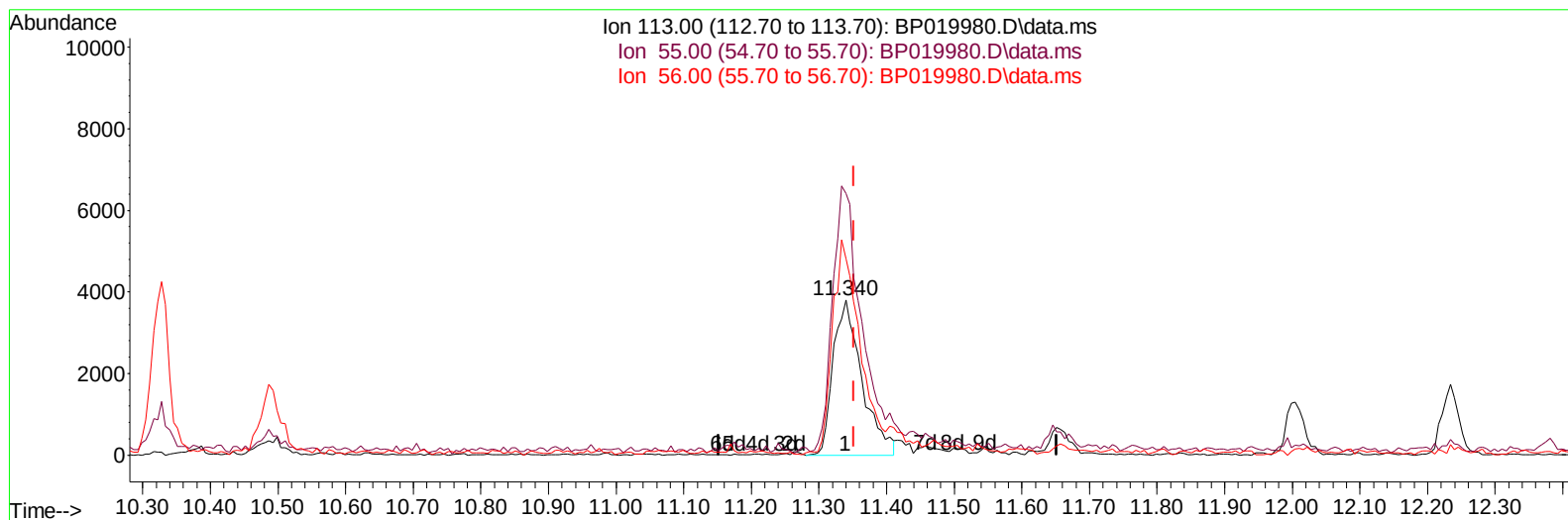
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
 Data File : BP019980.D  
 Acq On : 25 Mar 2024 13:00  
 Operator : MA/JU  
 Sample : P1601-03  
 Misc : SFAM-MDL-SOIL-01  
 ALS Vial : 5 Sample Multiplier: 1

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

Manual IntegrationsAPPROVED

Quant Time: Mar 25 13:29:15 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Mar 25 10:46:59 2024  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 03/26/2024  
 Supervised By :mohammad ahmed 03/27/2024



TIC: BP019980.D\data.ms

**(34) Caprolactam**

11.340min (-0.012) 4.13 ng/ul

response 11222

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 186.90 | 168.57 |
| 56.00  | 143.30 | 126.44 |
| 0.00   | 0.00   | 0.00   |

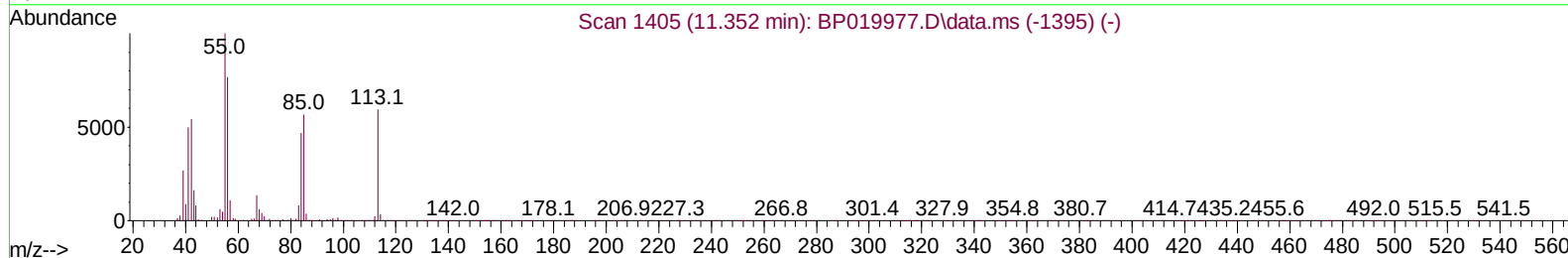
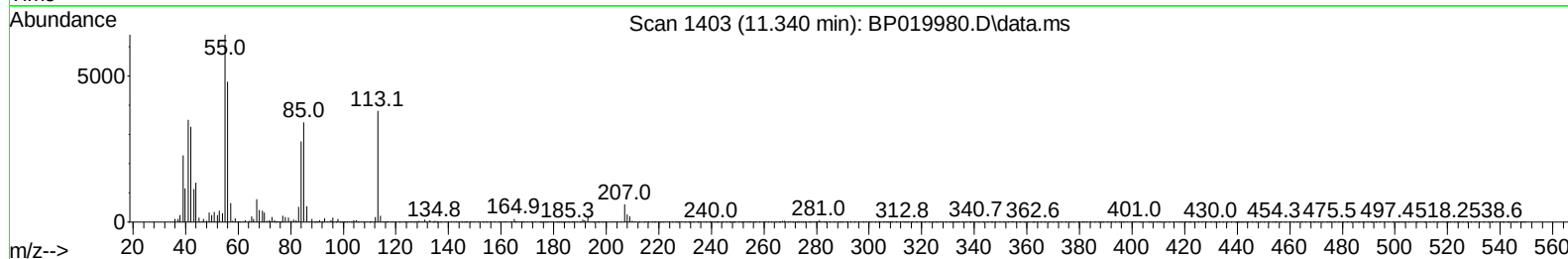
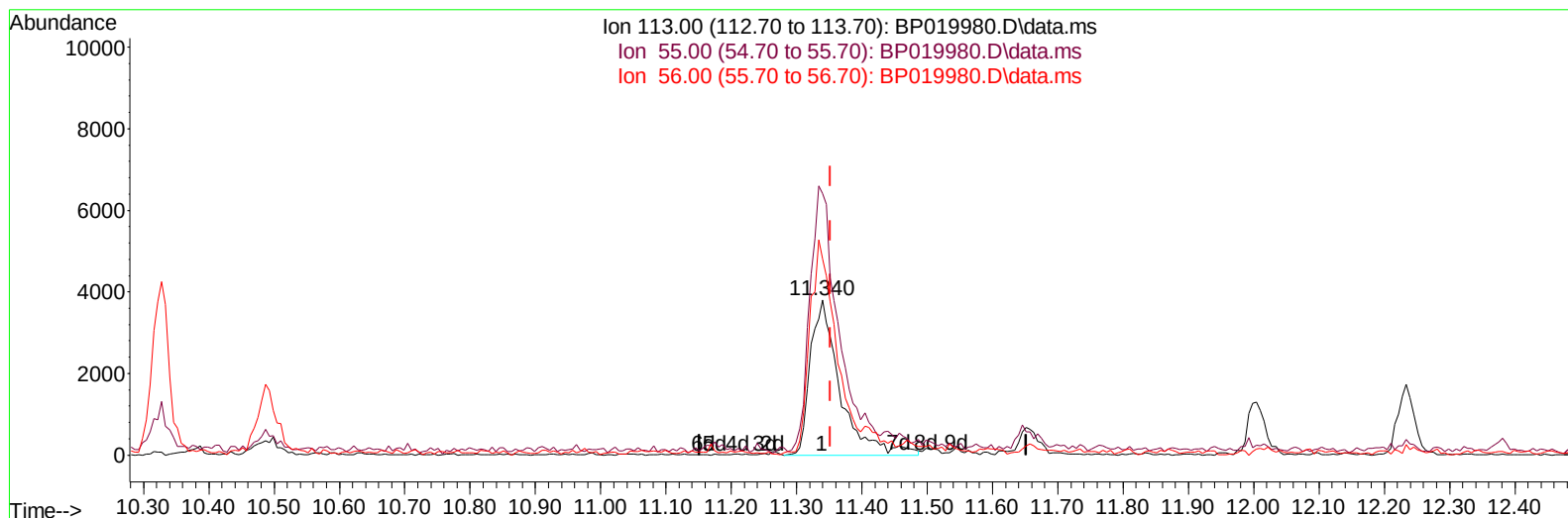
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
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TIC: BP019980.D\data.ms

## (34) Caprolactam

11.340min (-0.012) 4.47 ng/ul m

response 12145

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 186.90 | 168.57 |
| 56.00  | 143.30 | 126.44 |
| 0.00   | 0.00   | 0.00   |

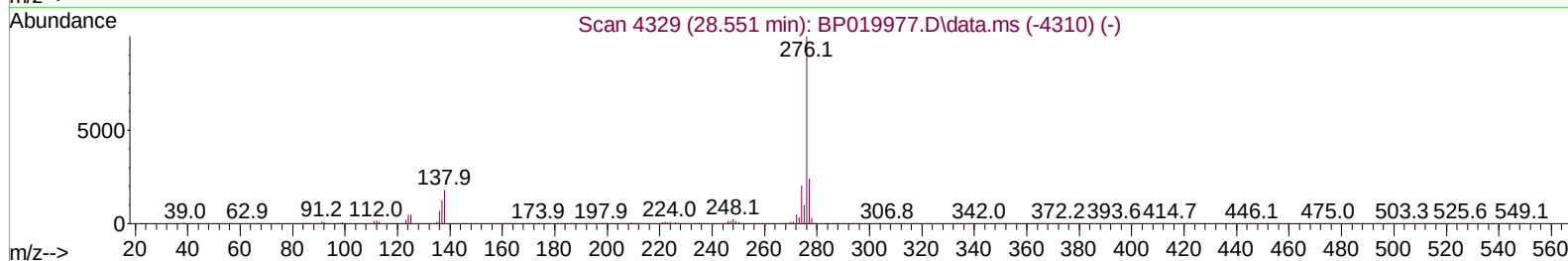
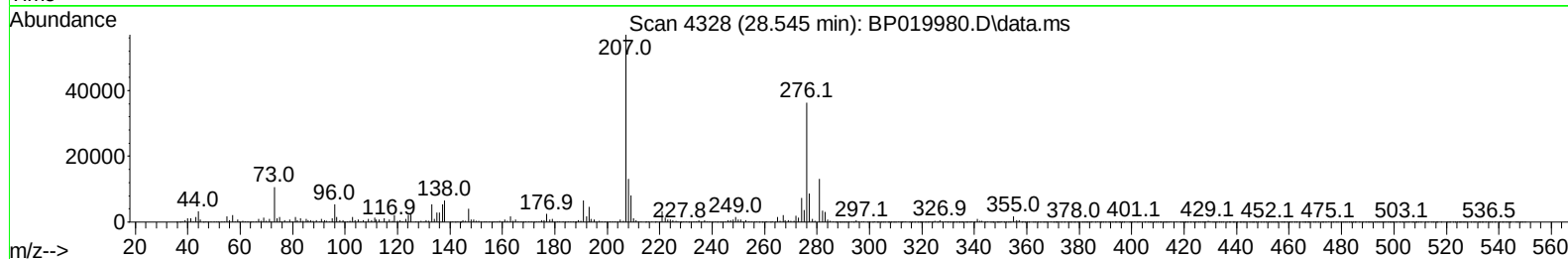
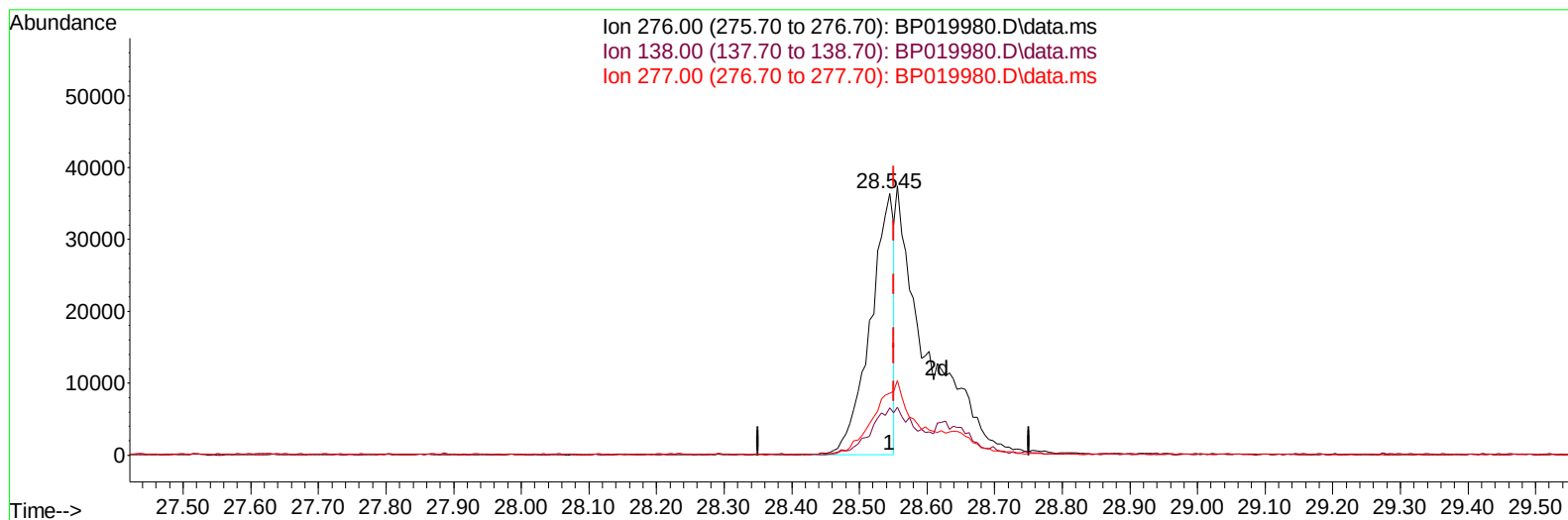
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
 Data File : BP019980.D  
 Acq On : 25 Mar 2024 13:00  
 Operator : MA/JU  
 Sample : P1601-03  
 Misc : SFAM-MDL-SOIL-01  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
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TIC: BP019980.D\data.ms

## (94) Indeno(1,2,3-cd)pyrene

28.545min (-0.006) 1.75 ng/u1

response 87919

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 16.40  | 18.18  |
| 277.00 | 24.40  | 23.70  |
| 0.00   | 0.00   | 0.00   |

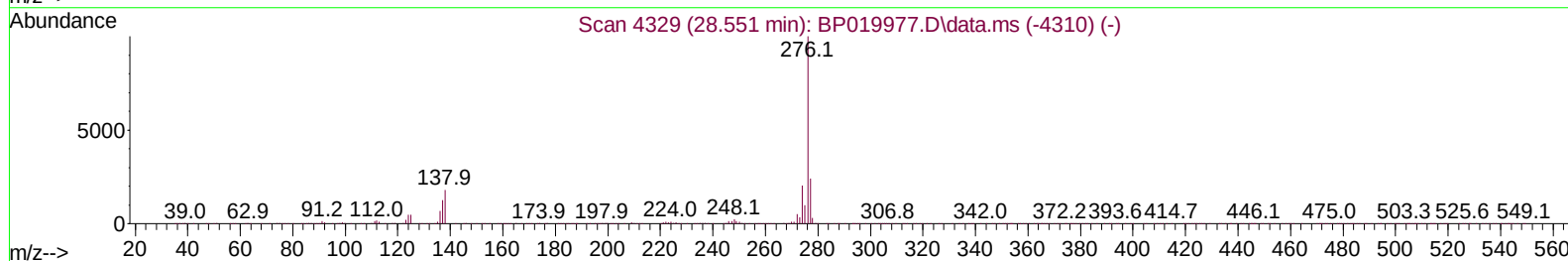
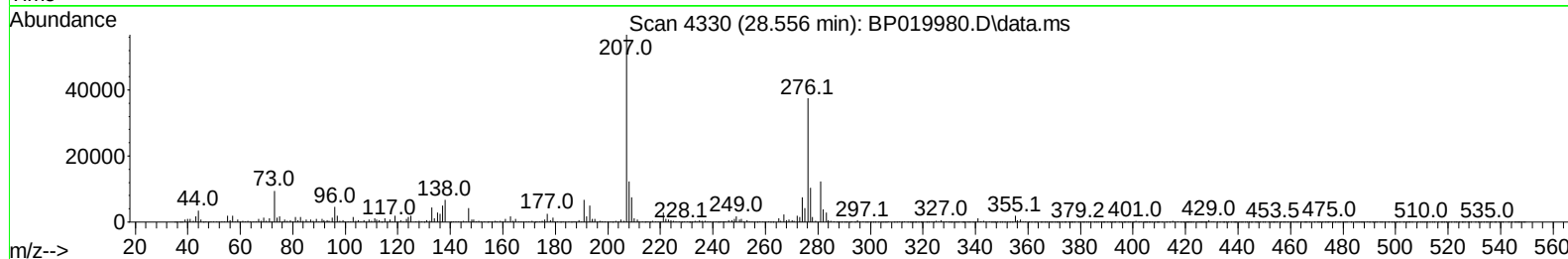
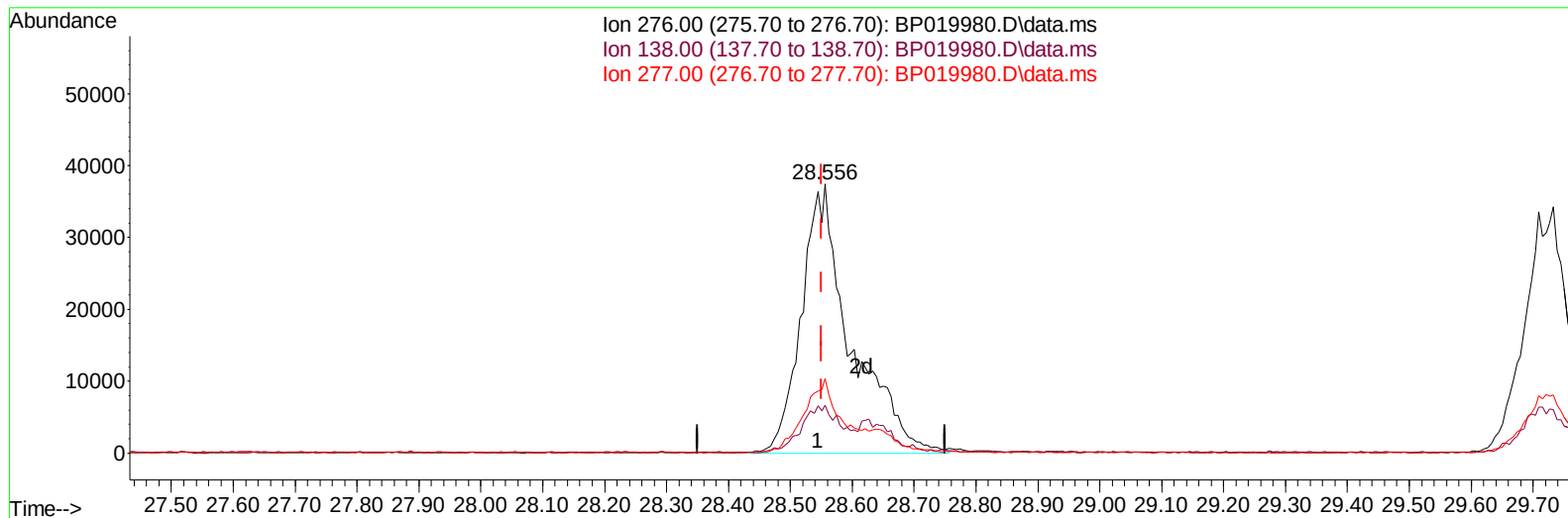
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Acq On : 25 Mar 2024 13:00  
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Instrument :  
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Manual IntegrationsAPPROVED

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TIC: BP019980.D\data.ms

(94) Indeno(1,2,3-cd)pyrene

28.556min (+ 0.006) 4.11 ng/u l m

response 206423

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 16.40  | 17.92  |
| 277.00 | 24.40  | 27.62  |
| 0.00   | 0.00   | 0.00   |

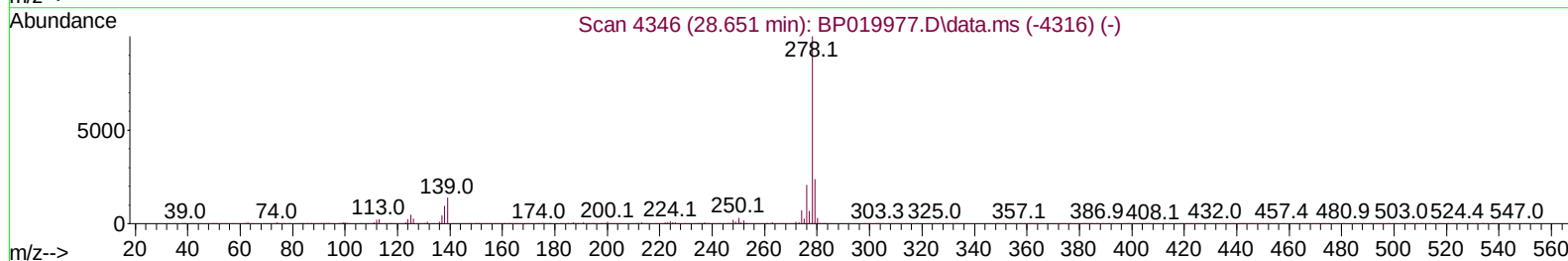
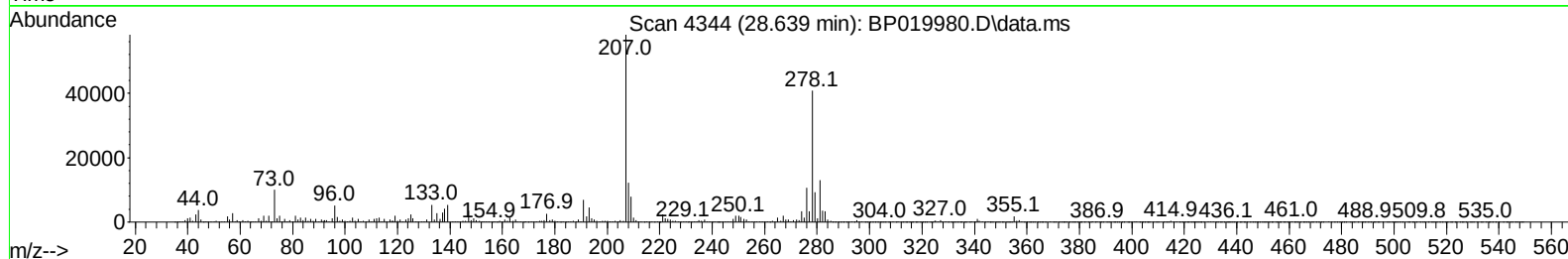
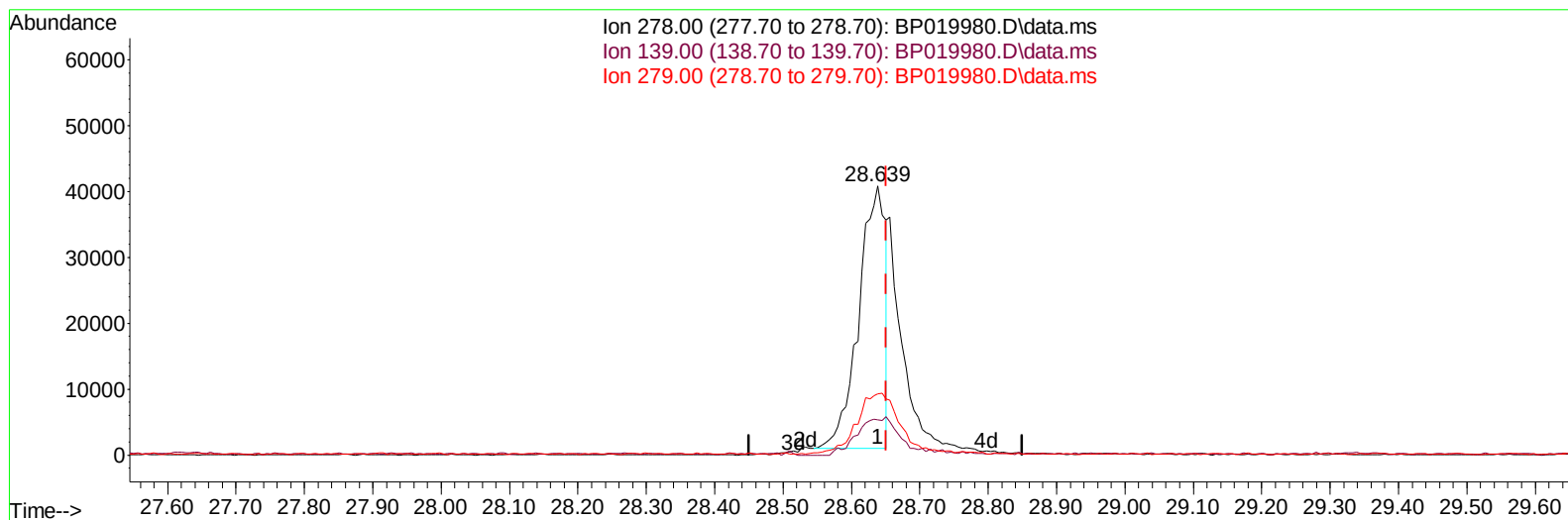
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
 Data File : BP019980.D  
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 Operator : MA/JU  
 Sample : P1601-03  
 Misc : SFAM-MDL-SOIL-01  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
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TIC: BP019980.D\data.ms

## (95) Dibenzo(a,h)anthracene

28.639min (-0.012) 2.63 ng/u1

response 107492

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 14.30  | 13.18  |
| 279.00 | 24.60  | 22.75  |
| 0.00   | 0.00   | 0.00   |

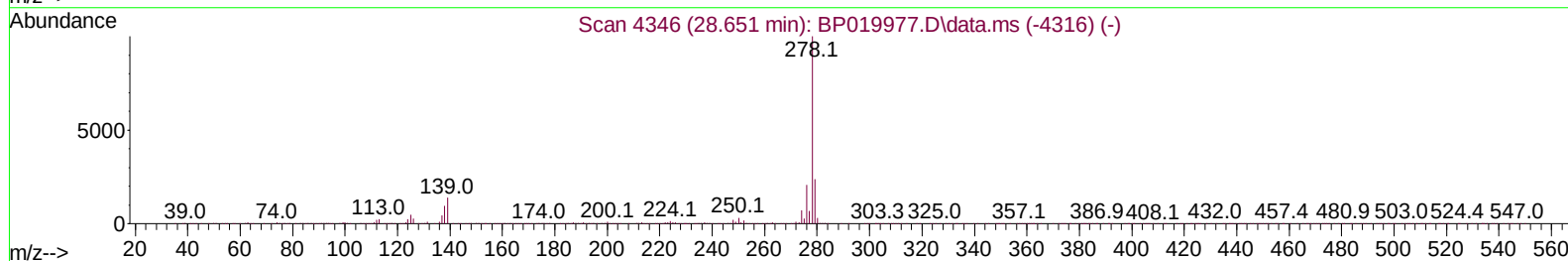
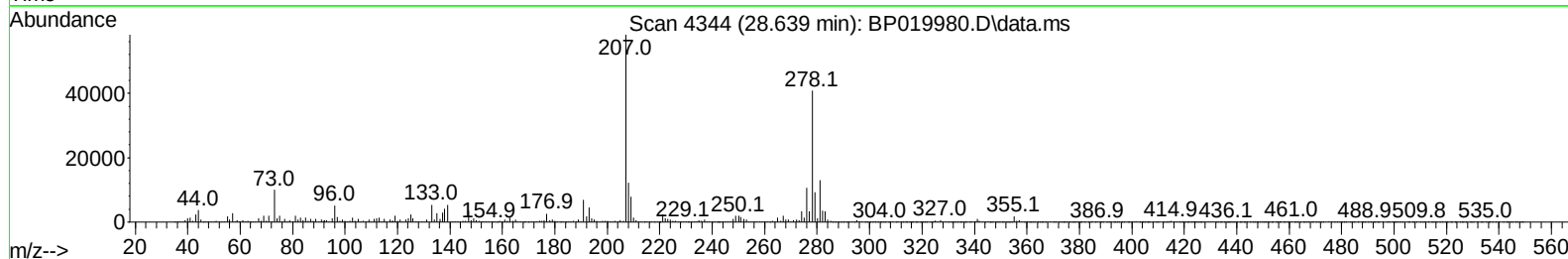
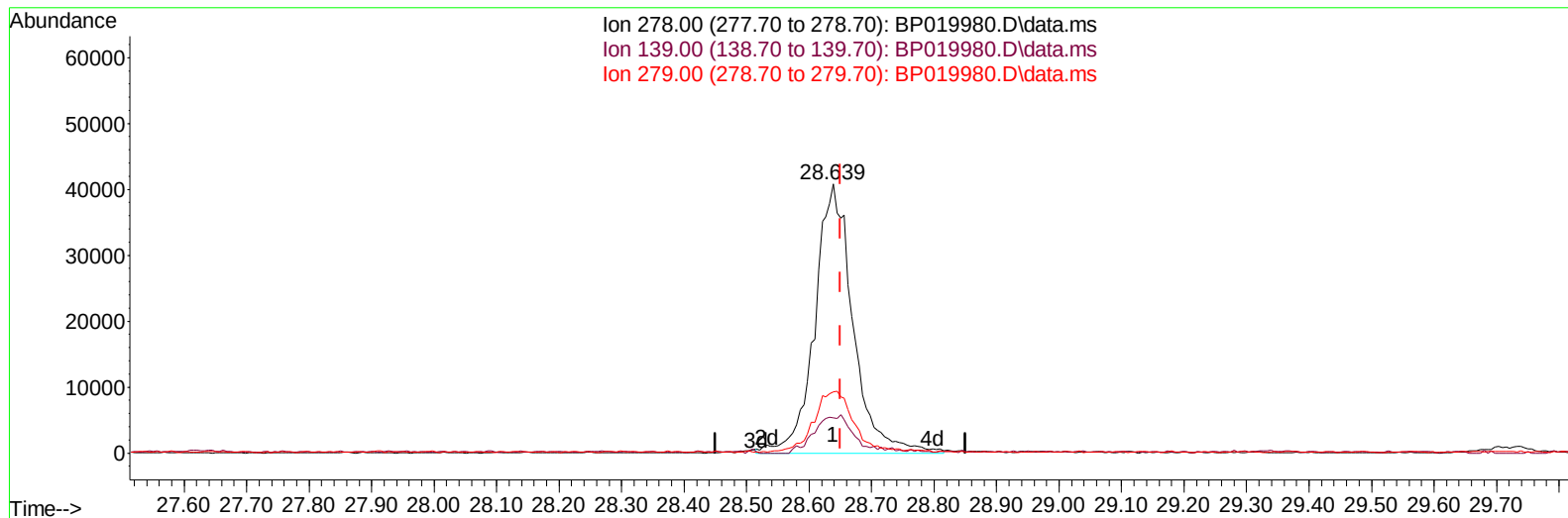
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
Data File : BP019980.D  
Acq On : 25 Mar 2024 13:00  
Operator : MA/JU  
Sample : P1601-03  
Misc : SFAM-MDL-SOIL-01  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
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## Manual IntegrationsAPPROVED

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Quant Title : SVOA CALIBRATION  
QLast Update : Mon Mar 25 10:46:59 2024  
Response via : Initial Calibration



TIC: BP019980.D\data.ms

**(95) Dibenzo(a,h)anthracene**

28.639min (-0.012) 4.25 ng/ul m

response 173505

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 14.30  | 13.18  |
| 279.00 | 24.60  | 22.75  |
| 0.00   | 0.00   | 0.00   |

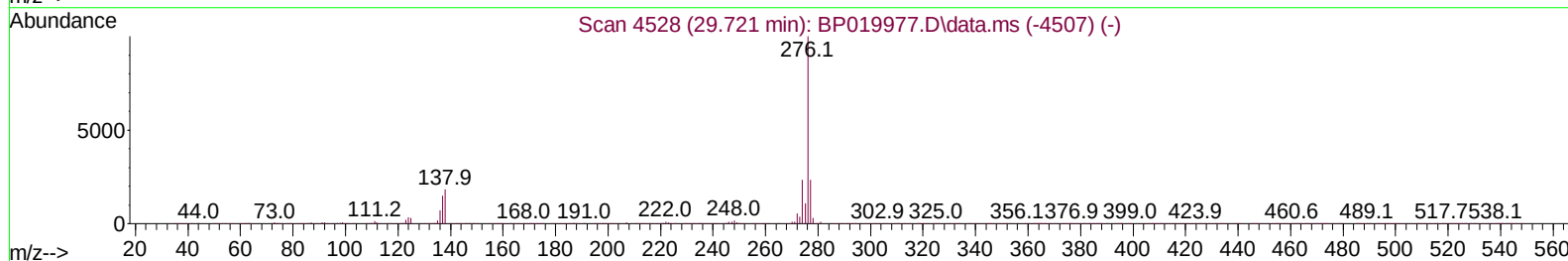
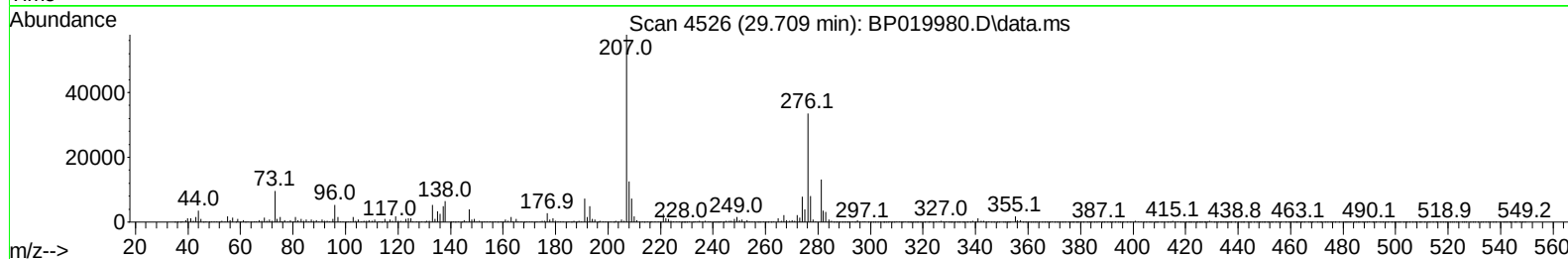
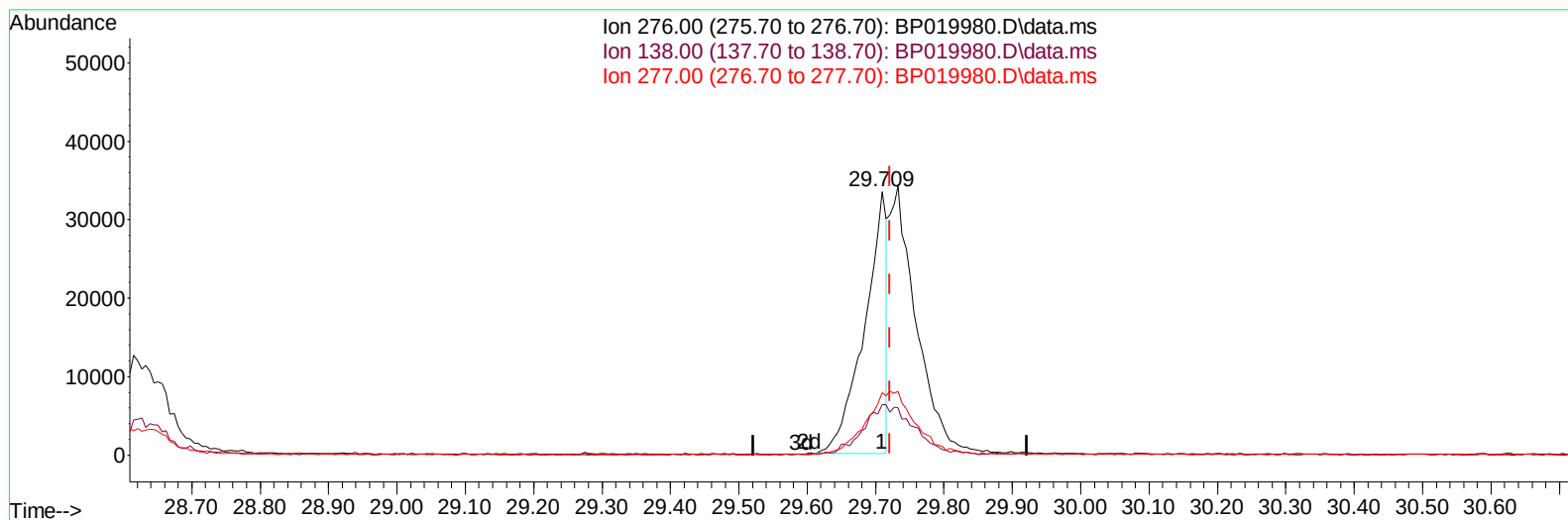
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
Data File : BP019980.D  
Acq On : 25 Mar 2024 13:00  
Operator : MA/JU  
Sample : P1601-03  
Misc : SFAM-MDL-SOIL-01  
ALS Vial : 5 Sample Multiplier: 1

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

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TIC: BP019980.D\data.ms

**(96) Benzo(g,h,i)perylene**

29.709min (-0.012) 1.85 ng/u1

response 75077

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.40  | 19.14  |
| 277.00 | 23.50  | 23.68  |
| 0.00   | 0.00   | 0.00   |

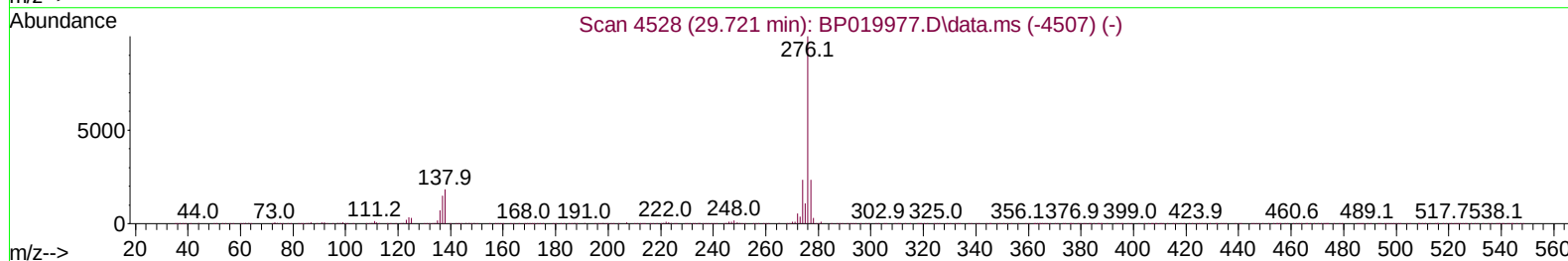
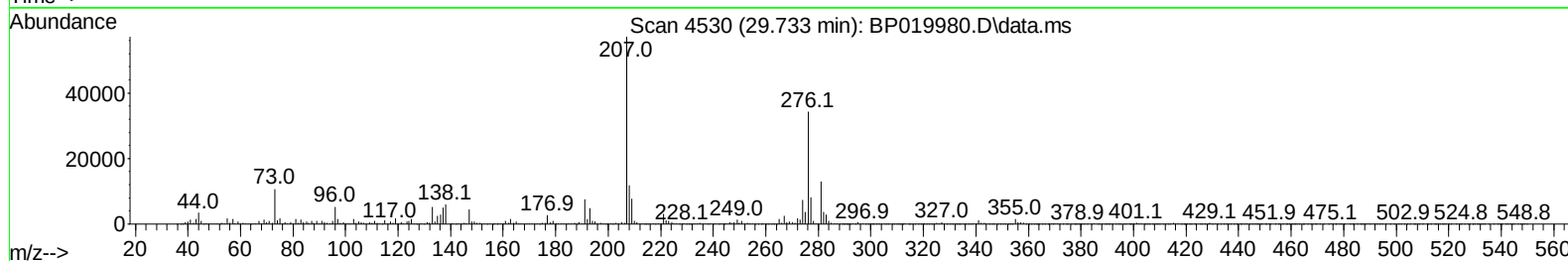
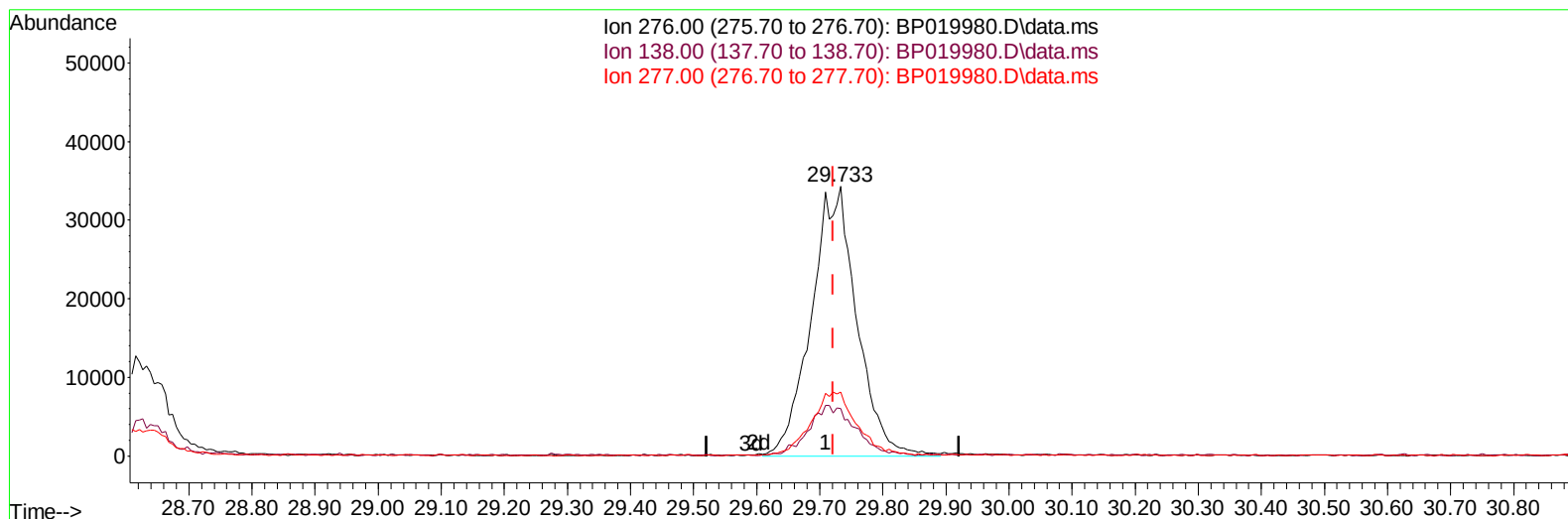
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
Data File : BP019980.D  
Acq On : 25 Mar 2024 13:00  
Operator : MA/JU  
Sample : P1601-03  
Misc : SFAM-MDL-SOIL-01  
ALS Vial : 5 Sample Multiplier: 1

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

## Manual IntegrationsAPPROVED

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TIC: BP019980.D\data.ms

## (96) Benzo(g,h,i)perylene

29.733min (+ 0.012) 4.23 ng/u1 m

response 171538

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.40  | 17.64  |
| 277.00 | 23.50  | 23.64  |
| 0.00   | 0.00   | 0.00   |



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## Manual IntegrationsAPPROVED

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Quant Time: Mar 25 13:33:48 2024  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Mar 25 10:46:59 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.581  | 152  | 135174   | 20.000 | ng/uL  | -0.04    |
| 20) Naphthalene-d8            | 10.328 | 136  | 570807   | 20.000 | ng/uL  | -0.04    |
| 38) Acenaphthene-d10          | 14.228 | 164  | 370979   | 20.000 | ng/uL  | -0.02    |
| 64) Phenanthrene-d10          | 17.075 | 188  | 760637   | 20.000 | ng/uL  | 0.00     |
| 79) Chrysene-d12              | 21.533 | 240  | 639639   | 20.000 | ng/uL  | -0.01    |
| 88) Perylene-d12              | 24.833 | 264  | 702670   | 20.000 | ng/uL  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.222  | 96   | 15638    | 5.069  | ng/uL  | -0.02    |
| 4) Pyridine-d5                | 3.611  | 84   | 223026   | 23.941 | ng/uL  | -0.03    |
| 7) Phenol-d5                  | 6.763  | 99   | 262200   | 22.999 | ng/uL  | -0.04    |
| 9) Bis-(2-Chloroethyl)eth...  | 6.922  | 67   | 173336   | 23.337 | ng/uL  | -0.05    |
| 11) 2-Chlorophenol-d4         | 7.110  | 132  | 189873   | 23.191 | ng/uL  | -0.04    |
| 15) 4-Methylphenol-d8         | 8.269  | 113  | 203243   | 23.043 | ng/uL  | -0.04    |
| 21) Nitrobenzene-d5           | 8.728  | 128  | 97710    | 22.333 | ng/uL  | -0.03    |
| 24) 2-Nitrophenol-d4          | 9.428  | 143  | 108834   | 22.233 | ng/uL  | -0.04    |
| 28) 2,4-Dichlorophenol-d3     | 9.963  | 165  | 192863   | 21.573 | ng/uL  | -0.04    |
| 31) 4-Chloroaniline-d4        | 10.487 | 131  | 261139   | 22.407 | ng/uL  | -0.03    |
| 46) Dimethylphthalate-d6      | 13.645 | 166  | 583721   | 22.442 | ng/uL  | 0.00     |
| 49) Acenaphthylene-d8         | 13.922 | 160  | 681603   | 22.433 | ng/uL  | -0.01    |
| 54) 4-Nitrophenol-d4          | 14.469 | 143  | 76738    | 18.767 | ng/uL  | -0.01    |
| 60) Fluorene-d10              | 15.257 | 176  | 495031   | 22.342 | ng/uL  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.410 | 200  | 85689    | 18.820 | ng/uL  | -0.01    |
| 73) Anthracene-d10            | 17.169 | 188  | 709450   | 21.070 | ng/uL  | 0.00     |
| 81) Pyrene-d10                | 19.563 | 212  | 813396   | 21.674 | ng/uL  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.580 | 264  | 759145   | 22.488 | ng/uL  | -0.03    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.258  | 88   | 4049     | 1.150  | ng/uL# | 87       |
| 5) Pyridine                   | 3.634  | 79   | 41615    | 4.383  | ng/uL# | 71       |
| 6) Benzaldehyde               | 6.758  | 77   | 35000    | 6.209  | ng/uL  | 96       |
| 8) Phenol                     | 6.793  | 94   | 52186    | 4.378  | ng/uL  | 95       |
| 10) Bis(2-Chloroethyl)ether   | 7.016  | 93   | 43039    | 4.459  | ng/uL  | 98       |
| 12) 2-Chlorophenol            | 7.146  | 128  | 37865    | 4.388  | ng/uL  | 98       |
| 13) 2-Methylphenol            | 8.016  | 108  | 36899    | 4.295  | ng/uL  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.081  | 45   | 61578    | 4.639  | ng/uL  | 96       |
| 16) Acetophenone              | 8.399  | 105  | 66531    | 4.676  | ng/uL  | 95       |
| 17) N-Nitroso-di-n-propyla... | 8.381  | 70   | 37322    | 4.703  | ng/uL  | 98       |
| 18) 4-Methylphenol            | 8.340  | 108  | 40155    | 4.342  | ng/uL  | 97       |
| 19) Hexachloroethane          | 8.616  | 117  | 17597    | 4.391  | ng/uL  | 98       |
| 22) Nitrobenzene              | 8.763  | 77   | 54408    | 4.366  | ng/uL  | 98       |
| 23) Isophorone                | 9.281  | 82   | 101107   | 4.352  | ng/uL  | 97       |
| 25) 2-Nitrophenol             | 9.463  | 139  | 21096    | 4.134  | ng/uL  | 98       |
| 26) 2,4-Dimethylphenol        | 9.528  | 107  | 36519    | 3.278  | ng/uL  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 9.757  | 93   | 57583    | 4.239  | ng/uL  | 98       |
| 29) 2,4-Dichlorophenol        | 9.999  | 162  | 35579    | 4.068  | ng/uL  | 96       |
| 30) Naphthalene               | 10.381 | 128  | 126599   | 4.323  | ng/uL  | 98       |
| 32) 4-Chloroaniline           | 10.510 | 127  | 49384    | 4.318  | ng/uL  | 98       |
| 33) Hexachlorobutadiene       | 10.634 | 225  | 28150    | 4.084  | ng/uL  | 98       |
| 34) Caprolactam               | 11.340 | 113  | 12145m   | 4.468  | ng/uL  |          |
| 35) 4-Chloro-3-methylphenol   | 11.651 | 107  | 42029    | 4.326  | ng/uL  | 97       |

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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 36) 2-Methylnaphthalene       | 11.998 | 142  | 85757    | 4.398 | ng/ul  | 99       |
| 37) 1-Methylnaphthalene       | 12.234 | 142  | 87469    | 4.486 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.375 | 216  | 50192    | 4.092 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 12.334 | 237  | 36739    | 5.293 | ng/ul  | 99       |
| 41) 2,4,6-Trichlorophenol     | 12.640 | 196  | 30601    | 4.061 | ng/ul  | 96       |
| 42) 2,4,5-Trichlorophenol     | 12.728 | 196  | 26990    | 3.463 | ng/ul  | 96       |
| 43) 1,1'-Biphenyl             | 13.045 | 154  | 114053   | 4.245 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.087 | 162  | 92454    | 4.267 | ng/ul  | 98       |
| 45) 2-Nitroaniline            | 13.316 | 65   | 27290    | 3.999 | ng/ul  | 92       |
| 47) Dimethylphthalate         | 13.687 | 163  | 113785   | 4.334 | ng/ul  | 100      |
| 48) 2,6-Dinitrotoluene        | 13.828 | 165  | 20854    | 3.912 | ng/ul  | 91       |
| 50) Acenaphthylene            | 13.951 | 152  | 145781   | 4.290 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.157 | 138  | 17695    | 3.605 | ng/ul  | 89       |
| 52) Acenaphthene              | 14.298 | 153  | 96865    | 4.291 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.404 | 184  | 11436    | 3.770 | ng/ul# | 84       |
| 55) 4-Nitrophenol             | 14.487 | 109  | 14424    | 3.844 | ng/ul  | 89       |
| 56) Dibenzofuran              | 14.639 | 168  | 132884   | 4.335 | ng/ul  | 96       |
| 57) 2,4-Dinitrotoluene        | 14.645 | 165  | 30201    | 4.144 | ng/ul  | 100      |
| 58) 2,3,4,6-Tetrachlorophenol | 14.881 | 232  | 27834    | 4.165 | ng/ul  | 96       |
| 59) Diethylphthalate          | 15.098 | 149  | 109220   | 4.195 | ng/ul  | 98       |
| 61) Fluorene                  | 15.310 | 166  | 109027   | 4.361 | ng/ul  | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.310 | 204  | 57469    | 4.291 | ng/ul  | 99       |
| 63) 4-Nitroaniline            | 15.369 | 138  | 16015    | 3.820 | ng/ul  | 96       |
| 66) 4,6-Dinitro-2-methylph... | 15.428 | 198  | 19727    | 4.083 | ng/ul# | 87       |
| 67) N-Nitrosodiphenylamine    | 15.539 | 169  | 90704    | 4.317 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.234 | 248  | 33641    | 4.075 | ng/ul  | 93       |
| 69) Hexachlorobenzene         | 16.351 | 284  | 37556    | 4.097 | ng/ul  | 95       |
| 70) Atrazine                  | 16.539 | 200  | 33600    | 4.174 | ng/ul  | 96       |
| 71) Pentachlorophenol         | 16.722 | 266  | 20809    | 3.872 | ng/ul  | 93       |
| 72) Phenanthrene              | 17.116 | 178  | 164978   | 4.195 | ng/ul  | 99       |
| 74) Anthracene                | 17.198 | 178  | 159511   | 3.995 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 12.998 | 216  | 48454    | 3.907 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 14.551 | 250  | 50274    | 4.377 | ng/uL  | 97       |
| 77) Carbazole                 | 17.510 | 167  | 139860   | 4.096 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.092 | 149  | 164330   | 3.854 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.216 | 202  | 182337   | 4.136 | ng/ul  | 100      |
| 82) Pyrene                    | 19.592 | 202  | 192270   | 4.197 | ng/ul  | 97       |
| 83) Butylbenzylphthalate      | 20.574 | 149  | 69489    | 3.735 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 21.463 | 252  | 53268    | 3.916 | ng/ul  | 96       |
| 85) Benzo(a)anthracene        | 21.516 | 228  | 180086   | 4.068 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.469 | 149  | 103790   | 3.818 | ng/ul  | 98       |
| 87) Chrysene                  | 21.580 | 228  | 171716   | 4.173 | ng/ul  | 97       |
| 89) Di-n-octyl phthalate      | 22.727 | 149  | 179100   | 4.019 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.780 | 252  | 168844   | 4.098 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 23.845 | 252  | 176838   | 4.224 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 24.651 | 252  | 167337   | 4.199 | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.556 | 276  | 206423m  | 4.113 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.639 | 278  | 173505m  | 4.250 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.733 | 276  | 171538m  | 4.231 | ng/ul  |          |

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

**Instrument :**

BNA\_P

**ClientSampleId :**

MDL-SOIL-QT1-2024-01

**Manual IntegrationsAPPROVED**

Reviewed By :Jagrut Upadhyay 03/26/2024  
Supervised By :mohammad ahmed 03/27/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032524\  
 Data File : BP019980.D  
 Acq On : 25 Mar 2024 13:00  
 Operator : MA/JU  
 Sample : P1601-03  
 Misc : SFAM-MDL-SOIL-01  
 ALS Vial : 5 Sample Multiplier: 1

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

## Manual IntegrationsAPPROVED

Reviewed By :Jagrut Upadhyay 03/26/2024  
 Supervised By :mohammad ahmed 03/27/2024

Quant Time: Mar 25 13:33:48 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Mar 25 10:46:59 2024  
 Response via : Initial Calibration

