

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032122\  
 Data File : BM034293.D  
 Acq On : 21 Mar 2022 18:16  
 Operator : CG/JU  
 Sample : M4068-02  
 Misc : LOQ-SOIL-10ppm  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2021

Quant Time: Mar 22 04:10:12 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 16 02:38:26 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.942  | 152  | 176052   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.754 | 136  | 728743   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.583 | 164  | 495371   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.324 | 188  | 1052427  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.494 | 240  | 1102467  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.906 | 264  | 1067867  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.495  | 112  | 1259282  | 128.320 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.101  | 99   | 1795431  | 127.782 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.107  | 82   | 1240065  | 82.848  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.071 | 330  | 904819   | 135.513 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.213 | 172  | 2953670  | 81.478  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.942 | 244  | 5081102  | 80.084  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.354  | 88   | 39424    | 8.879   | ng    | 95       |
| 3) Pyridine                   | 3.766  | 79   | 100448   | 8.360   | ng    | 97       |
| 4) n-Nitrosodimethylamine     | 3.666  | 42   | 54089    | 9.481   | ng    | 95       |
| 6) Aniline                    | 7.266  | 93   | 162076   | 10.094  | ng    | 95       |
| 8) 2-Chlorophenol             | 7.507  | 128  | 106221   | 9.254   | ng    | 98       |
| 9) Benzaldehyde               | 7.072  | 77   | 98630m   | 13.029  | ng    |          |
| 10) Phenol                    | 7.125  | 94   | 130779   | 9.358   | ng    | 95       |
| 11) bis(2-Chloroethyl)ether   | 7.360  | 93   | 108564   | 9.465   | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 7.836  | 146  | 122698   | 9.424   | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.983  | 146  | 124124   | 9.312   | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 8.301  | 146  | 118412   | 9.113   | ng    | 99       |
| 15) Benzyl Alcohol            | 8.183  | 79   | 100267   | 8.967   | ng    | 95       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.478  | 45   | 151537   | 9.627   | ng    | 100      |
| 17) 2-Methylphenol            | 8.383  | 107  | 87236    | 8.913   | ng    | 97       |
| 18) Hexachloroethane          | 9.036  | 117  | 46379    | 9.434   | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 8.754  | 70   | 97269    | 9.571   | ng    | 99       |
| 20) 3+4-Methylphenols         | 8.713  | 107  | 118951   | 8.788   | ng    | 98       |
| 22) Acetophenone              | 8.766  | 105  | 177234   | 9.477   | ng    | 97       |
| 24) Nitrobenzene              | 9.148  | 77   | 139558   | 9.987   | ng    | 99       |
| 25) Isophorone                | 9.677  | 82   | 253996   | 10.141  | ng    | 98       |
| 26) 2-Nitrophenol             | 9.866  | 139  | 52954    | 8.545   | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 9.925  | 122  | 94993    | 9.789   | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 10.160 | 93   | 150286   | 9.372   | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.401 | 162  | 99689    | 8.842   | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 10.619 | 180  | 117933   | 9.202   | ng    | 98       |
| 31) Naphthalene               | 10.807 | 128  | 358542   | 9.444   | ng    | 99       |
| 32) Benzoic acid              | 10.013 | 122  | 73797    | 9.196   | ng    | 99       |
| 33) 4-Chloroaniline           | 10.913 | 127  | 136980   | 9.146   | ng    | 99       |
| 34) Hexachlorobutadiene       | 11.101 | 225  | 73782    | 9.089   | ng    | 97       |
| 35) Caprolactam               | 11.666 | 113  | 35509    | 9.060   | ng    | 97       |
| 36) 4-Chloro-3-methylphenol   | 12.036 | 107  | 116184   | 8.992   | ng    | 96       |
| 37) 2-Methylnaphthalene       | 12.418 | 142  | 255848   | 9.444   | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.636 | 142  | 248746   | 9.386   | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.783 | 216  | 139300   | 9.318   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.771 | 237  | 92648    | 10.703  | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 13.018 | 196  | 86039    | 8.336   | ng    | 100      |

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 Sample : M4068-02  
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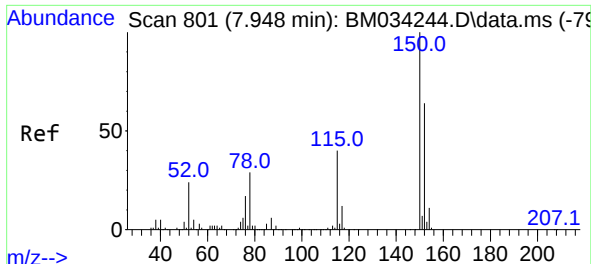
Manual Integrations  
 APPROVED

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

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.089 | 196  | 93725    | 8.460  | ng    | 98       |
| 46) 1,1'-Biphenyl             | 13.424 | 154  | 354508   | 9.386  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.465 | 162  | 264837   | 9.135  | ng    | 98       |
| 48) 2-Nitroaniline            | 13.660 | 65   | 73989    | 8.347  | ng    | 99       |
| 49) Acenaphthylene            | 14.307 | 152  | 443118   | 9.806  | ng    | 99       |
| 50) Dimethylphthalate         | 14.036 | 163  | 355525   | 9.430  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.148 | 165  | 73180    | 9.463  | ng    | 94       |
| 52) Acenaphthene              | 14.648 | 154  | 282086   | 9.268  | ng    | 99       |
| 53) 3-Nitroaniline            | 14.477 | 138  | 65933    | 8.498  | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 14.683 | 184  | 39012    | 9.004  | ng    | 95       |
| 55) Dibenzofuran              | 14.977 | 168  | 419055   | 9.238  | ng    | 99       |
| 56) 4-Nitrophenol             | 14.777 | 139  | 66829    | 10.625 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 14.936 | 165  | 96636    | 9.245  | ng    | 98       |
| 58) Fluorene                  | 15.624 | 166  | 341664   | 9.278  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.207 | 232  | 88756    | 8.885  | ng    | 99       |
| 60) Diethylphthalate          | 15.395 | 149  | 369044   | 9.541  | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 15.624 | 204  | 171129   | 9.102  | ng    | 100      |
| 62) 4-Nitroaniline            | 15.636 | 138  | 60268m   | 8.075  | ng    |          |
| 63) Azobenzene                | 15.912 | 77   | 350228   | 9.389  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.695 | 198  | 61869    | 9.041  | ng    | 94       |
| 66) n-Nitrosodiphenylamine    | 15.830 | 169  | 301924   | 9.030  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.512 | 248  | 107361   | 8.874  | ng    | 100      |
| 68) Hexachlorobenzene         | 16.636 | 284  | 125269   | 9.283  | ng    | 96       |
| 69) Atrazine                  | 16.777 | 200  | 111336   | 10.102 | ng    | 98       |
| 70) Pentachlorophenol         | 16.971 | 266  | 87365    | 10.124 | ng    | 94       |
| 71) Phenanthrene              | 17.365 | 178  | 555453   | 9.424  | ng    | 99       |
| 72) Anthracene                | 17.453 | 178  | 534443   | 9.316  | ng    | 99       |
| 73) Carbazole                 | 17.724 | 167  | 467627   | 8.741  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.289 | 149  | 619809   | 9.319  | ng    | 99       |
| 75) Fluoranthene              | 19.377 | 202  | 642976   | 9.732  | ng    | 99       |
| 77) Benzidine                 | 19.559 | 184  | 167641m  | 10.376 | ng    |          |
| 78) Pyrene                    | 19.736 | 202  | 672310   | 8.655  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.630 | 149  | 274631   | 8.360  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.477 | 228  | 656091   | 9.429  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.412 | 252  | 201238   | 8.659  | ng    | 98       |
| 83) Chrysene                  | 21.530 | 228  | 638505   | 8.986  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.406 | 149  | 425583   | 8.773  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.335 | 149  | 695042   | 9.026  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 26.418 | 276  | 557943   | 8.122  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 23.171 | 252  | 619798   | 9.706  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.218 | 252  | 651343   | 9.629  | ng    | 100      |
| 90) Benzo(a)pyrene            | 23.800 | 252  | 565044   | 10.438 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 26.435 | 278  | 471201   | 8.460  | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 27.188 | 276  | 507322   | 8.800  | ng    | 99       |

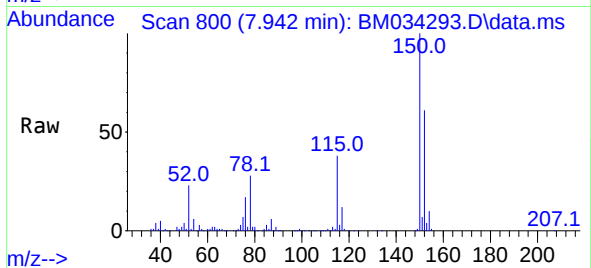
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.942 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

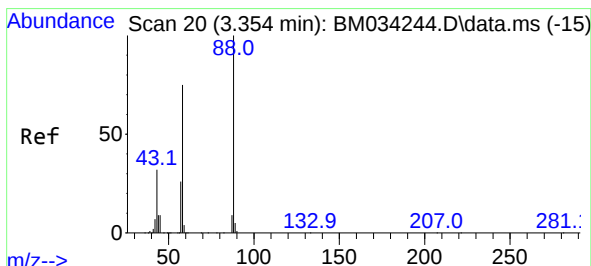
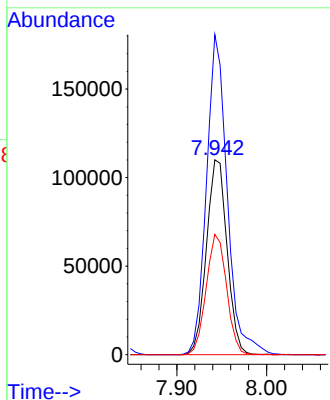
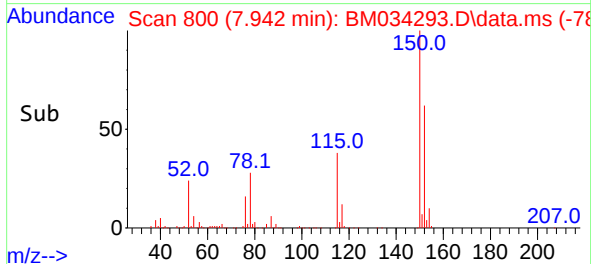
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:152 Resp: 176052  
Ion Ratio Lower Upper  
152 100  
150 164.2 125.4 188.2  
115 61.7 50.1 75.1

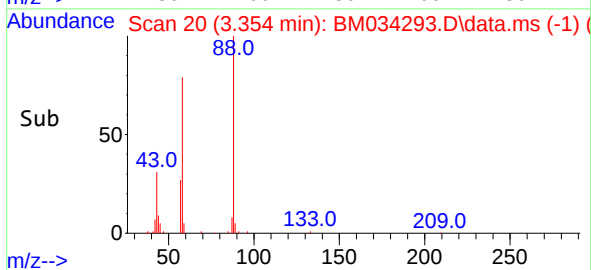
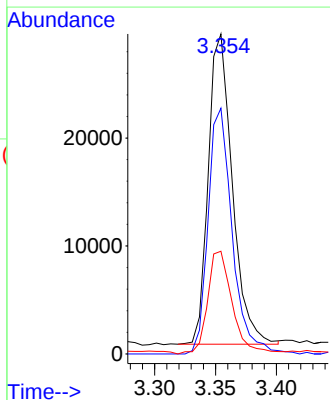
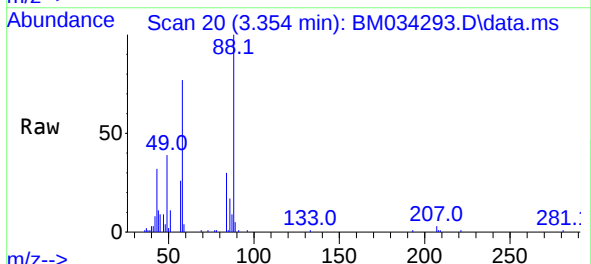
Manual Integrations  
APPROVED

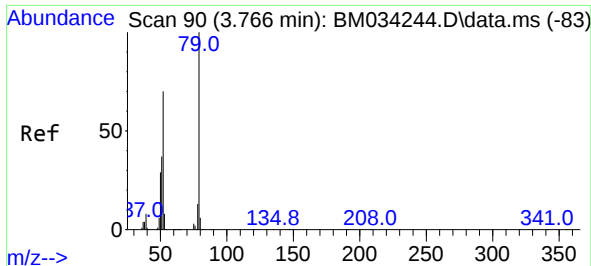
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#2  
1,4-Dioxane  
Concen: 8.879 ng  
RT: 3.354 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

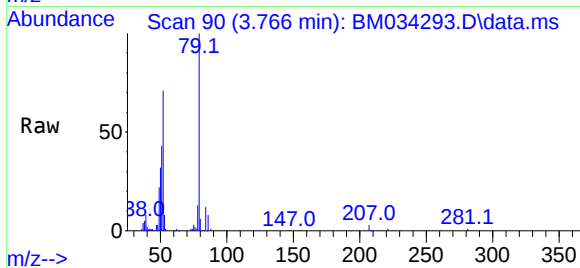
Tgt Ion: 88 Resp: 39424  
Ion Ratio Lower Upper  
88 100  
58 79.9 60.4 90.6  
43 34.2 25.4 38.0





#3  
Pyridine  
Concen: 8.360 ng  
RT: 3.766 min Scan# 90  
Delta R.T. -0.000 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

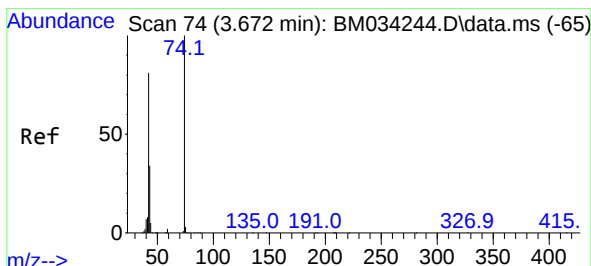
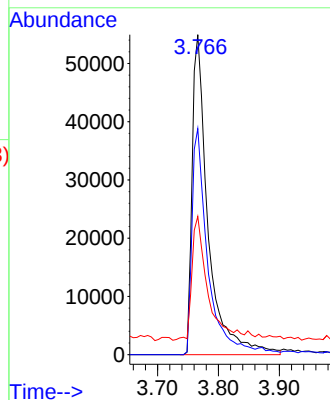
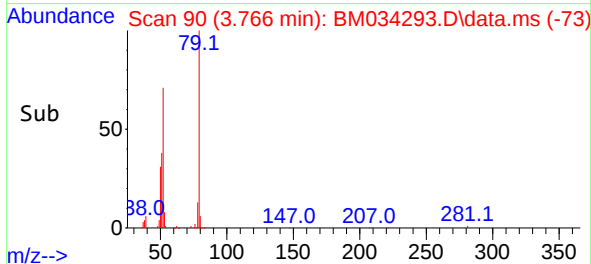
Instrument : BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



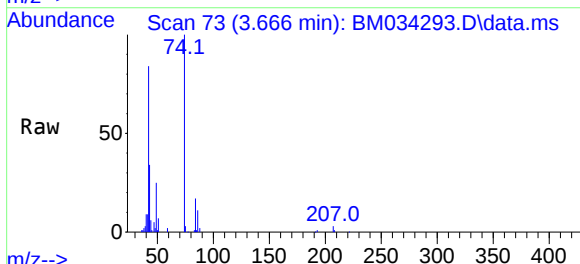
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Ion Ratio Lower Upper  
79 100  
52 70.7 56.1 84.1  
51 43.2 30.4 45.6

Manual Integrations  
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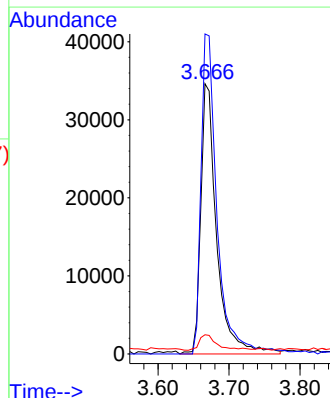
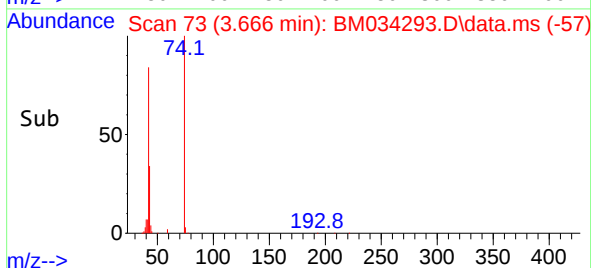
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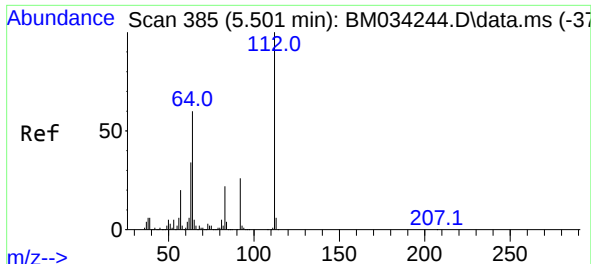


#4  
n-Nitrosodimethylamine  
Concen: 9.481 ng  
RT: 3.666 min Scan# 73  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



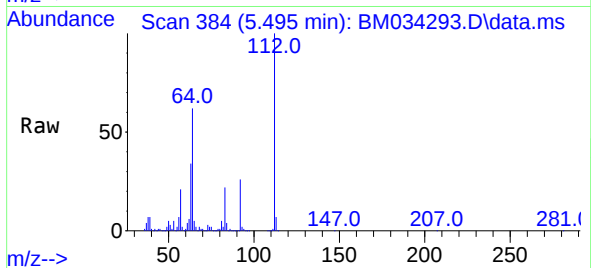
Tgt Ion: 42 Resp: 54089  
Ion Ratio Lower Upper  
42 100  
74 118.4 99.3 148.9  
44 7.1 5.0 7.6





#5  
2-Fluorophenol  
Concen: 128.320 ng  
RT: 5.495 min Scan# 384  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

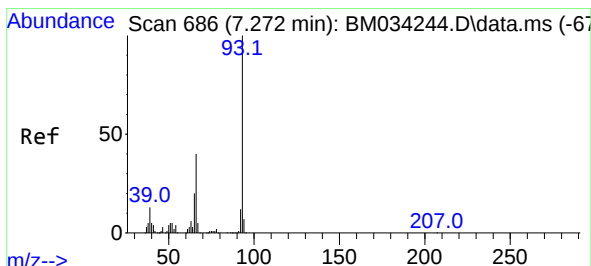
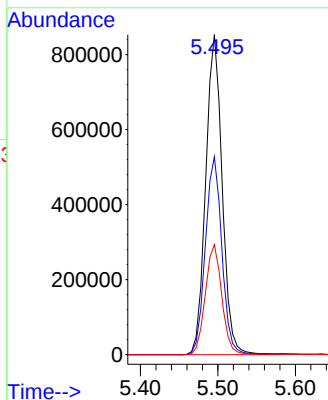
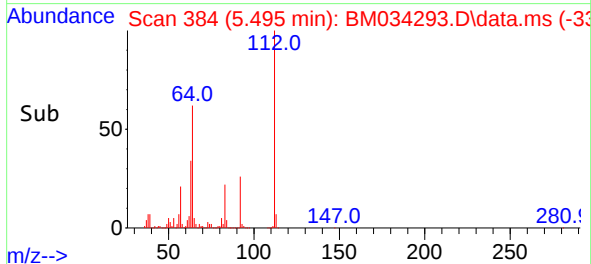
Instrument :  
BNA\_M  
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Tgt Ion:112 Resp: 125928  
Ion Ratio Lower Upper  
112 100  
64 61.9 47.9 71.9  
63 34.4 27.1 40.7

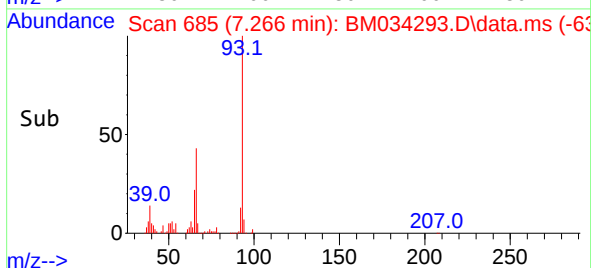
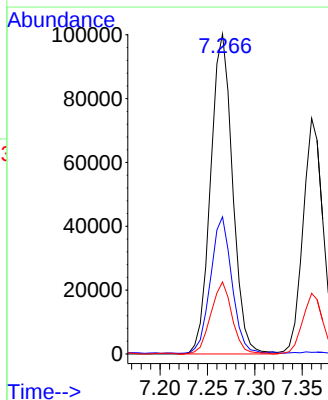
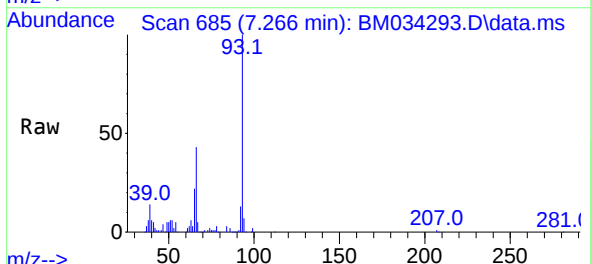
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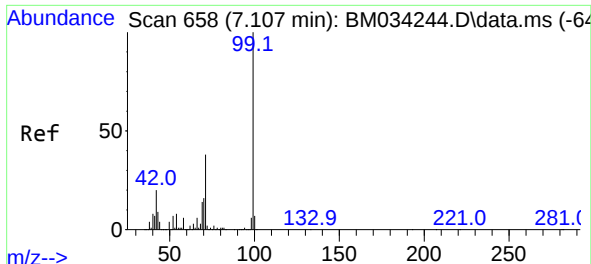
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#6  
Aniline  
Concen: 10.094 ng  
RT: 7.266 min Scan# 685  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

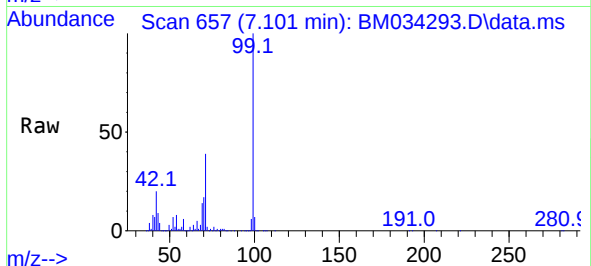
Tgt Ion: 93 Resp: 162076  
Ion Ratio Lower Upper  
93 100  
66 42.9 31.9 47.9  
65 22.5 16.2 24.4





#7  
Phenol-d6  
Concen: 127.782 ng  
RT: 7.101 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

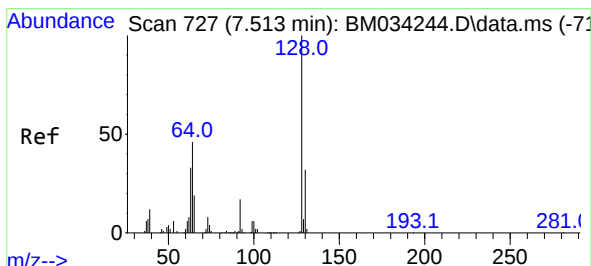
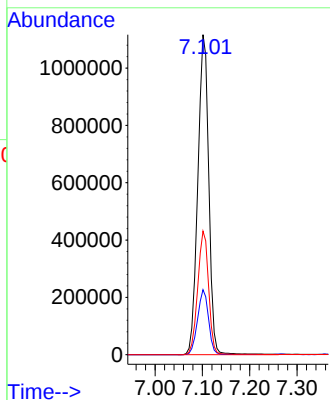
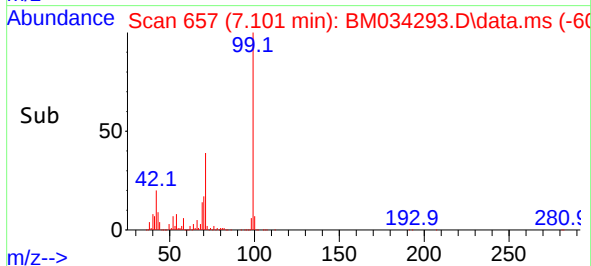
Instrument :  
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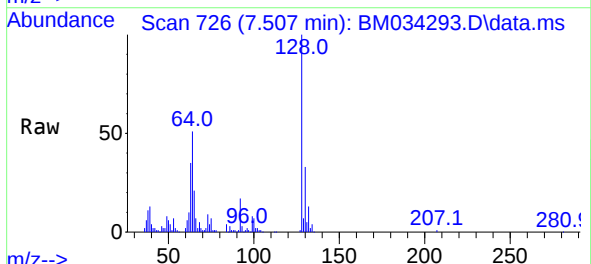
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Ion Ratio Lower Upper  
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42 20.3 15.6 23.4  
71 38.6 30.6 46.0

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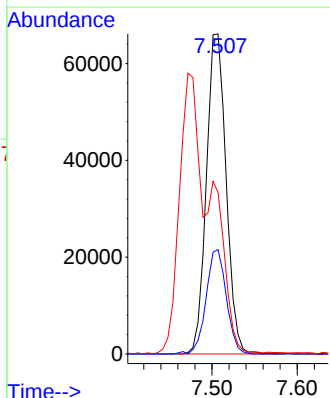
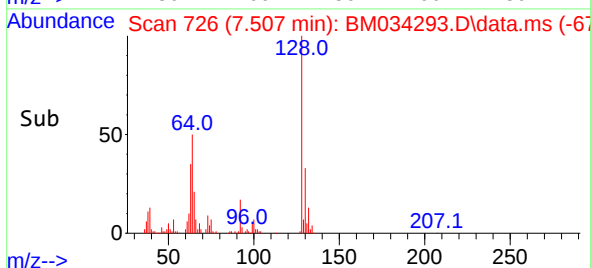
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

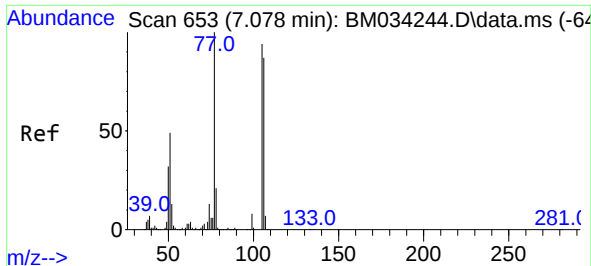


#8  
2-Chlorophenol  
Concen: 9.254 ng  
RT: 7.507 min Scan# 726  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



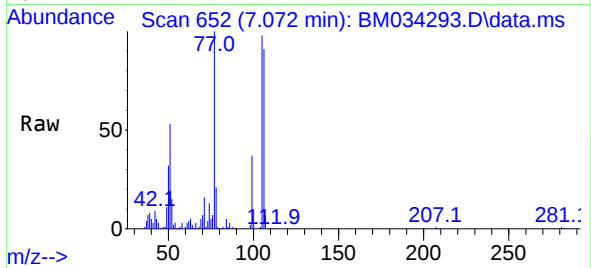
Tgt Ion:128 Resp: 106221  
Ion Ratio Lower Upper  
128 100  
130 32.6 12.3 52.3  
64 50.5 28.1 68.1





#9  
Benzaldehyde  
Concen: 13.029 ng m  
RT: 7.072 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

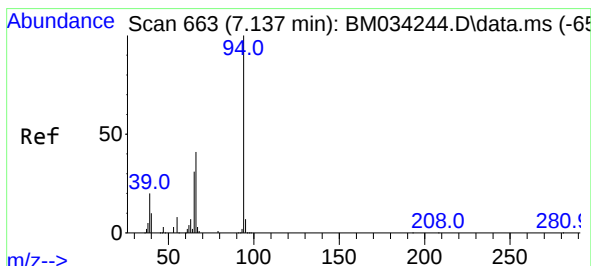
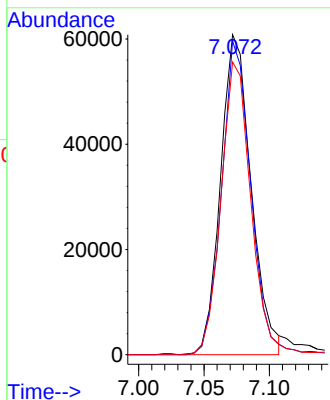
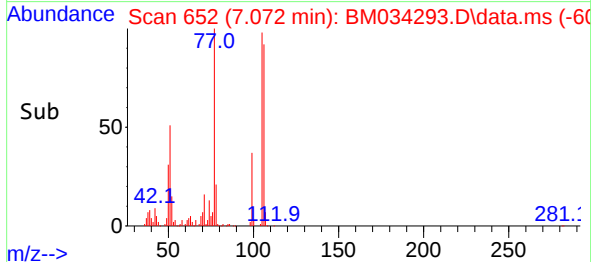
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



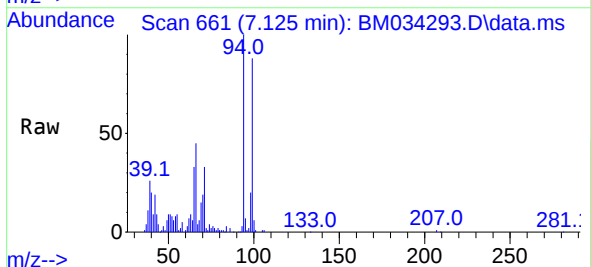
Tgt Ion: 77 Resp: 98630  
Ion Ratio Lower Upper  
77 100  
105 98.0 73.9 113.9  
106 91.5 67.2 107.2

Manual Integrations  
APPROVED

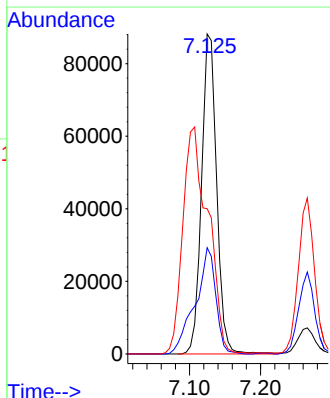
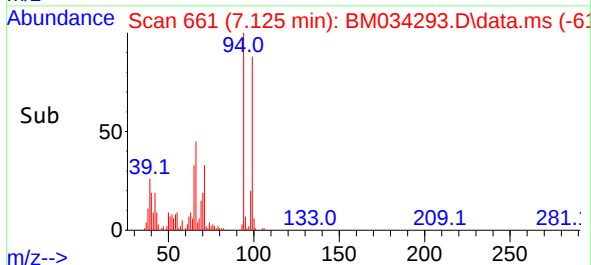
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

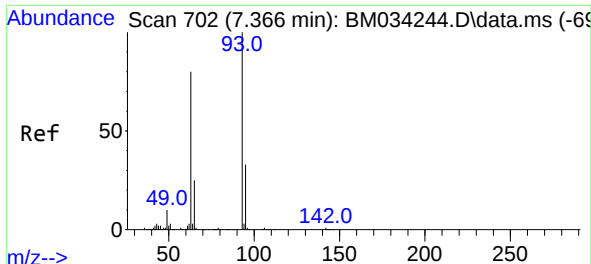


#10  
Phenol  
Concen: 9.358 ng  
RT: 7.125 min Scan# 661  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



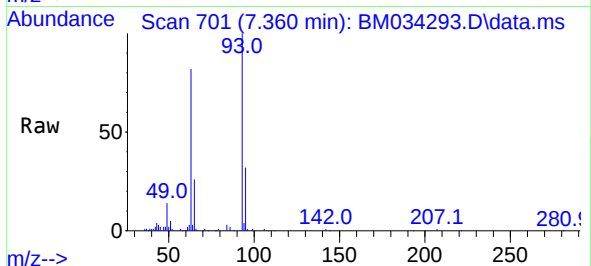
Tgt Ion: 94 Resp: 130779  
Ion Ratio Lower Upper  
94 100  
65 33.2 10.9 50.9  
66 45.4 22.0 62.0





#11  
bis(2-Chloroethyl)ether  
Concen: 9.465 ng  
RT: 7.360 min Scan# 702  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

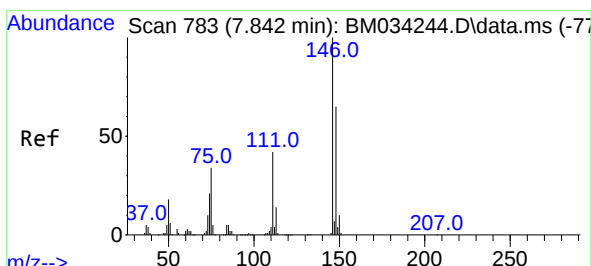
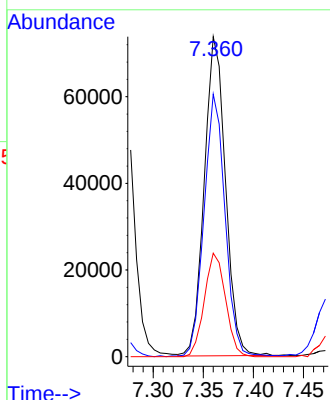
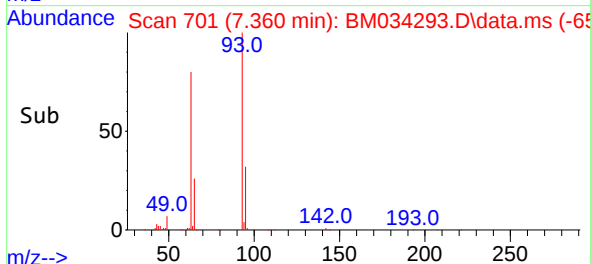
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion: 93 Resp: 108564  
Ion Ratio Lower Upper  
93 100  
63 82.1 59.6 99.6  
95 32.4 12.6 52.6

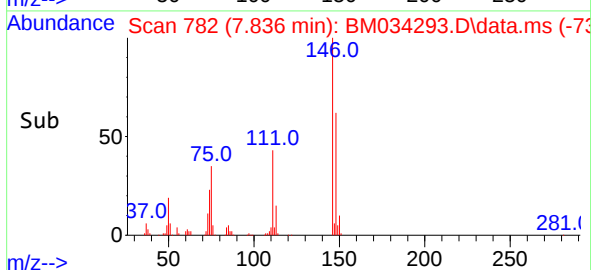
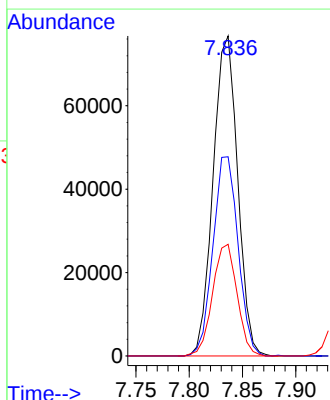
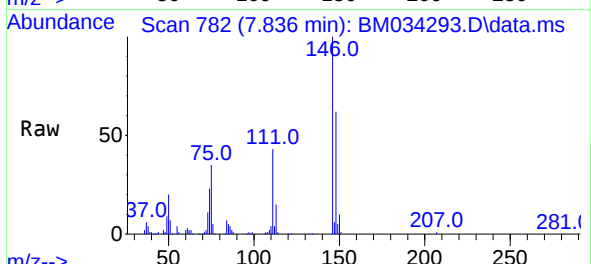
Manual Integrations  
APPROVED

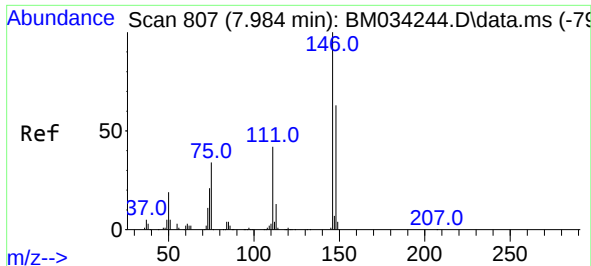
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#12  
1,3-Dichlorobenzene  
Concen: 9.424 ng  
RT: 7.836 min Scan# 782  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

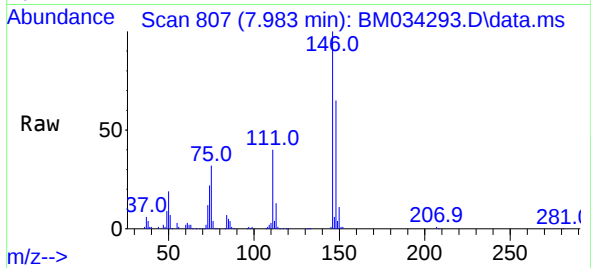
Tgt Ion:146 Resp: 122698  
Ion Ratio Lower Upper  
146 100  
148 62.3 51.8 77.8  
75 34.9 27.1 40.7





#13  
1,4-Dichlorobenzene  
Concen: 9.312 ng  
RT: 7.983 min Scan# 807  
Delta R.T. -0.000 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

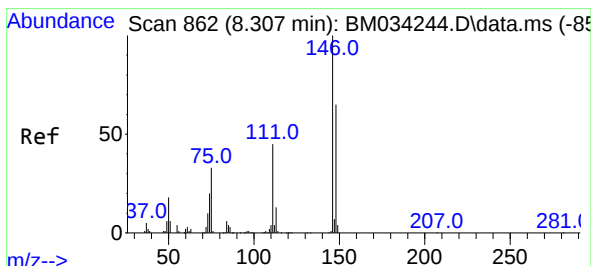
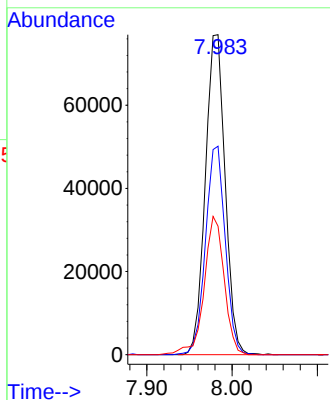
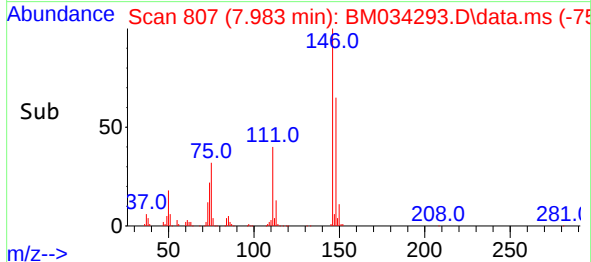
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



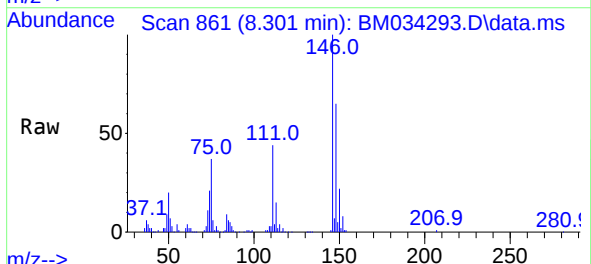
Tgt Ion:146 Resp: 124124  
Ion Ratio Lower Upper  
146 100  
148 65.1 50.6 76.0  
111 40.2 34.0 51.0

Manual Integrations  
APPROVED

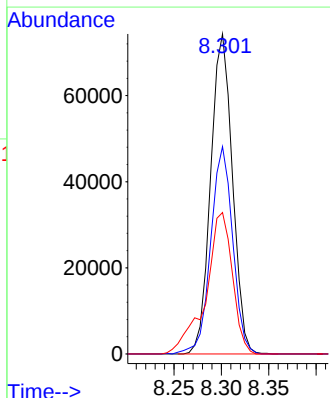
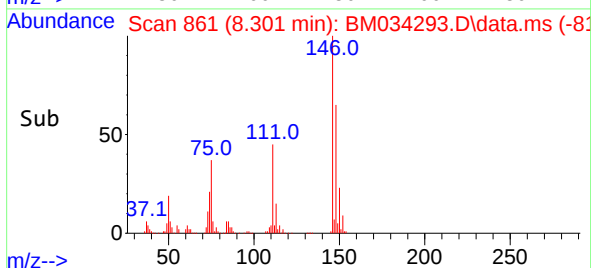
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

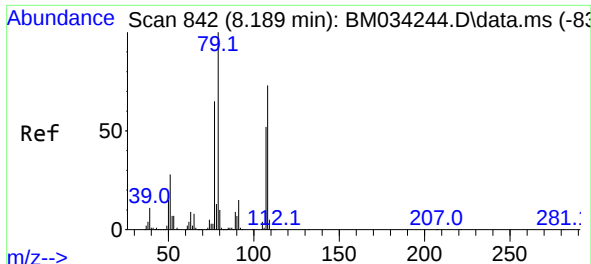


#14  
1,2-Dichlorobenzene  
Concen: 9.113 ng  
RT: 8.301 min Scan# 861  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



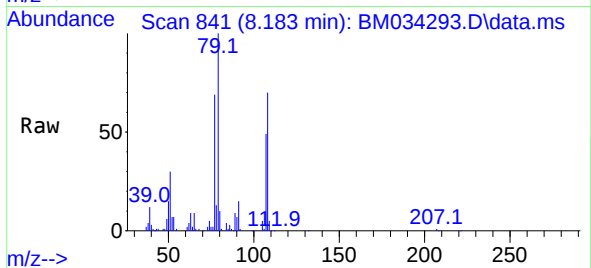
Tgt Ion:146 Resp: 118412  
Ion Ratio Lower Upper  
146 100  
148 64.8 52.2 78.4  
111 44.2 35.8 53.8





#15  
Benzyl Alcohol  
Concen: 8.967 ng  
RT: 8.183 min Scan# 842  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

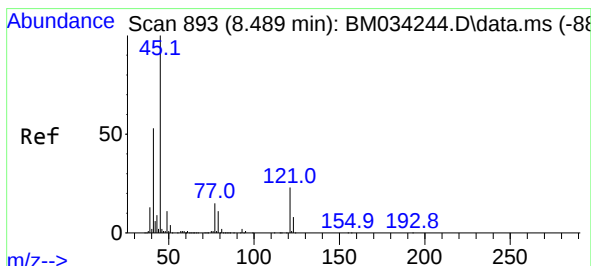
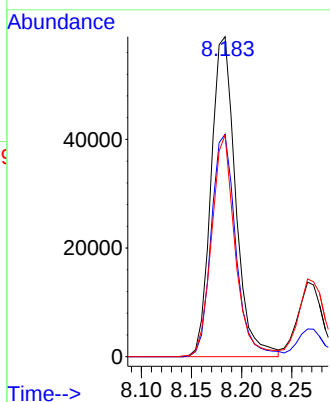
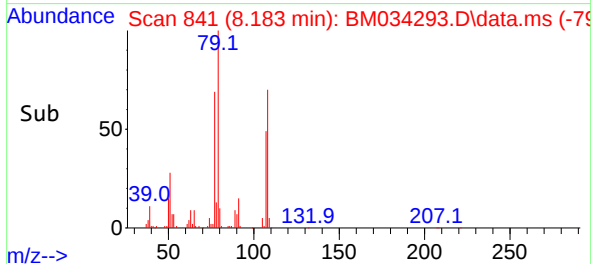
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion: 79 Resp: 10026  
Ion Ratio Lower Upper  
79 100  
108 69.5 58.1 87.1  
77 69.3 51.8 77.6

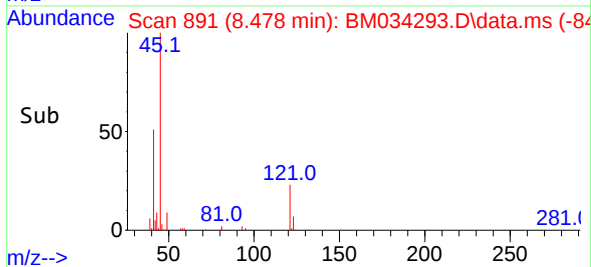
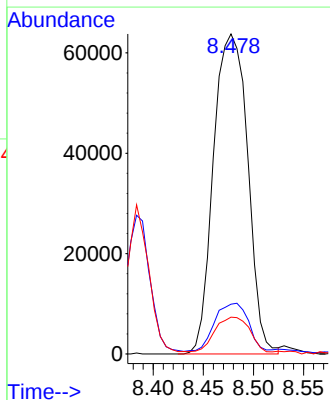
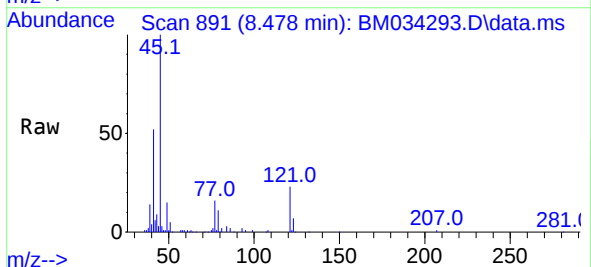
Manual Integrations  
APPROVED

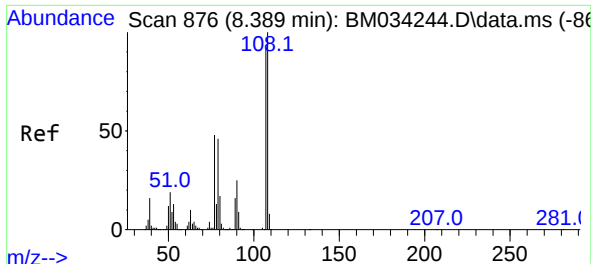
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 9.627 ng  
RT: 8.478 min Scan# 891  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

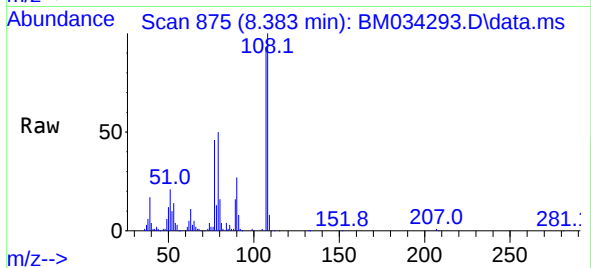
Tgt Ion: 45 Resp: 151537  
Ion Ratio Lower Upper  
45 100  
77 15.6 0.0 35.7  
79 11.5 0.0 31.7





#17  
2-Methylphenol  
Concen: 8.913 ng  
RT: 8.383 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

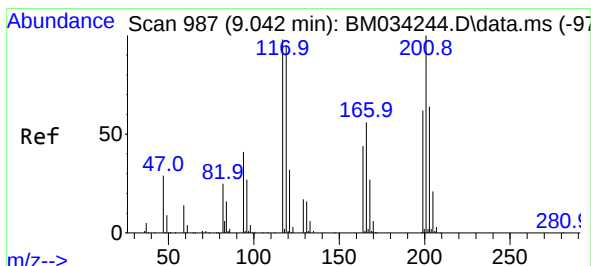
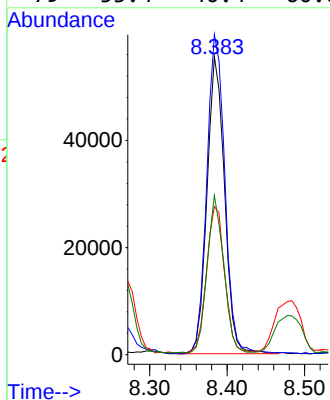
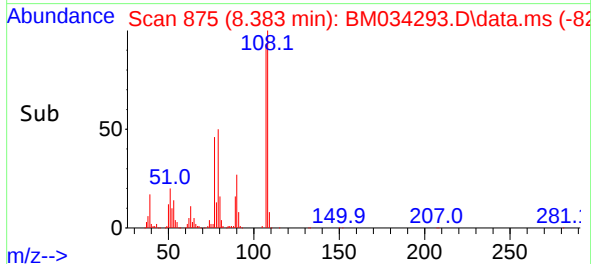


Tgt Ion:107 Resp: 87230

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 107 | 100   |       |       |
| 108 | 107.3 | 87.3  | 130.9 |
| 77  | 49.7  | 41.6  | 62.4  |
| 79  | 53.4  | 40.4  | 60.6  |

Manual Integrations  
APPROVED

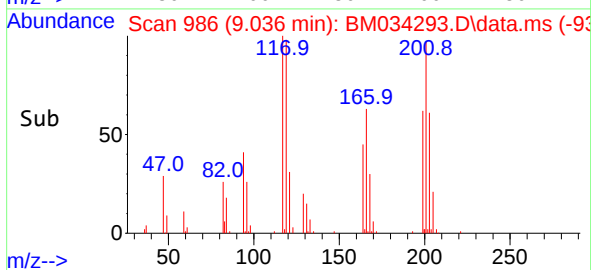
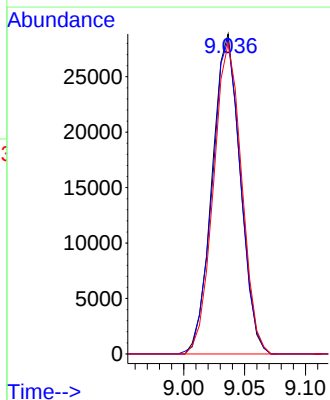
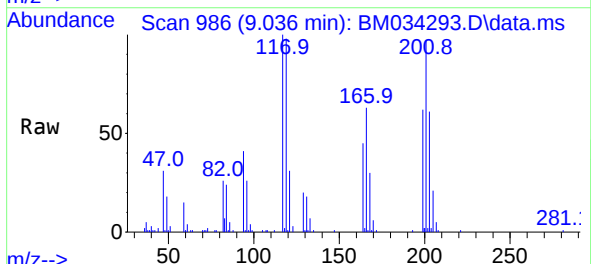
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

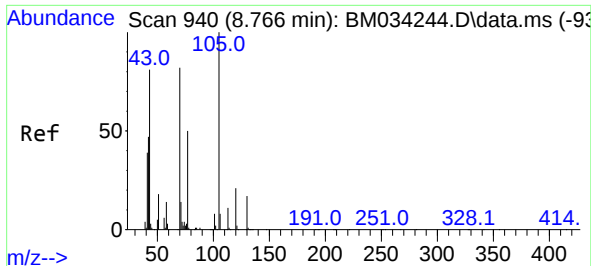


#18  
Hexachloroethane  
Concen: 9.434 ng  
RT: 9.036 min Scan# 986  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Tgt Ion:117 Resp: 46379

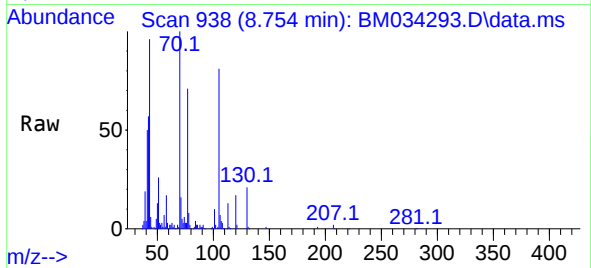
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 98.3  | 77.4  | 116.0 |
| 201 | 97.1  | 81.6  | 122.4 |





#19  
n-Nitroso-di-n-propylamine  
Concen: 9.571 ng  
RT: 8.754 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

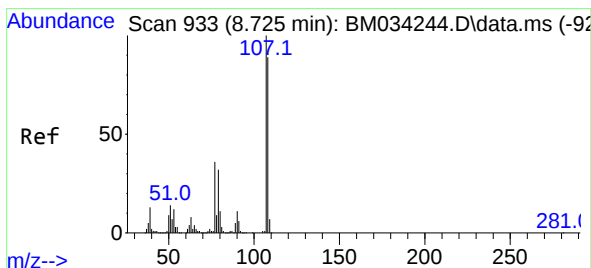
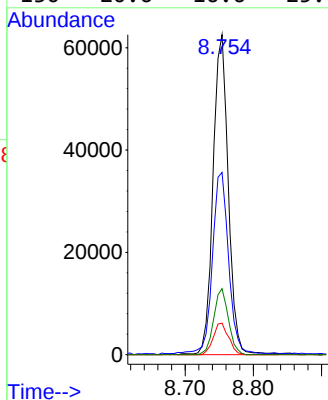
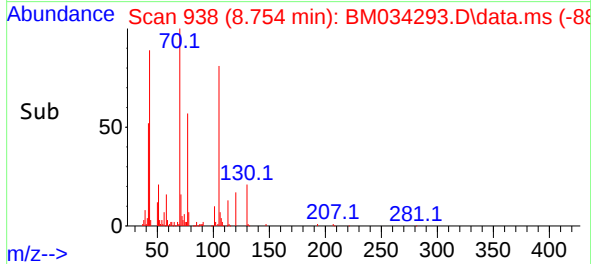
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



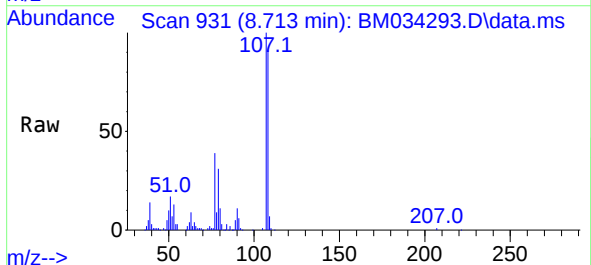
Tgt Ion: 70 Resp: 97269  
Ion Ratio Lower Upper  
70 100  
42 57.0 46.7 70.1  
101 9.9 7.8 11.6  
130 20.6 16.6 25.0

Manual Integrations  
APPROVED

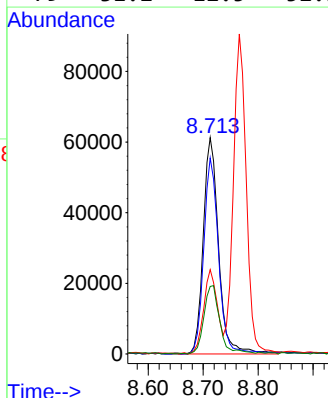
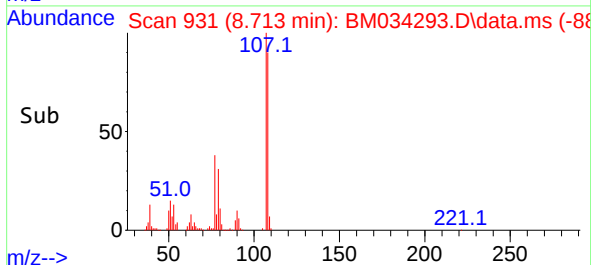
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

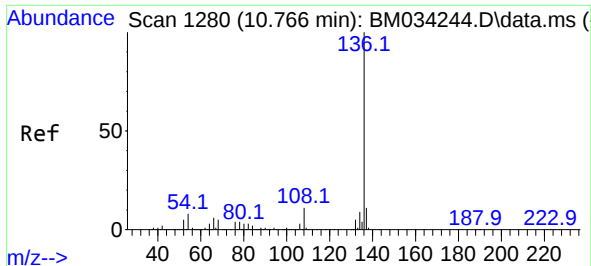


#20  
3+4-Methylphenols  
Concen: 8.788 ng  
RT: 8.713 min Scan# 931  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



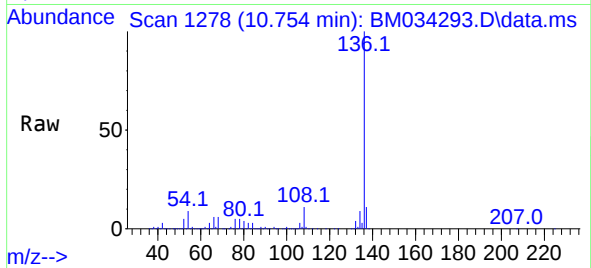
Tgt Ion:107 Resp: 118951  
Ion Ratio Lower Upper  
107 100  
108 90.6 69.2 109.2  
77 39.0 16.5 56.5  
79 31.2 12.5 52.5





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.754 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

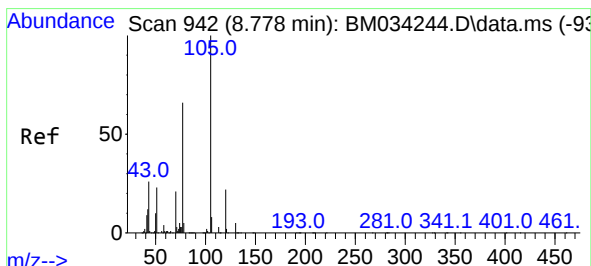
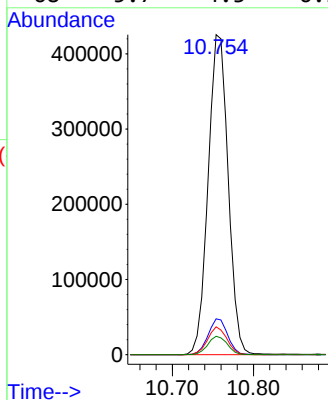
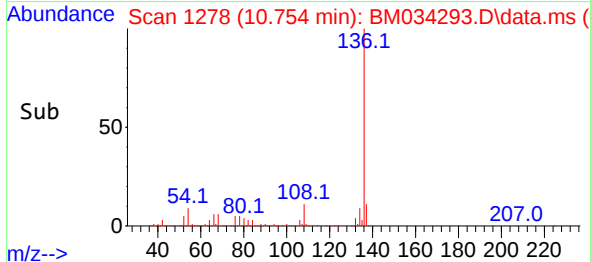
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:136 Resp: 72874  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.6 13.0  
54 8.7 6.2 9.4  
68 5.7 4.3 6.5

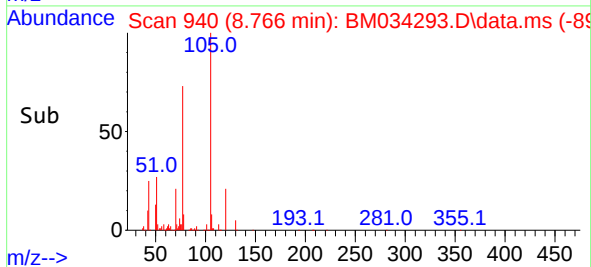
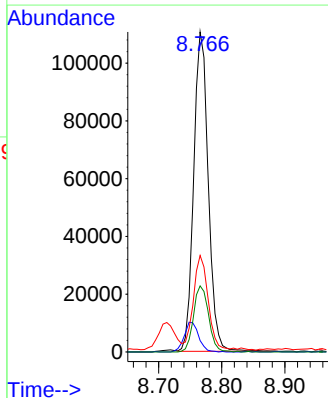
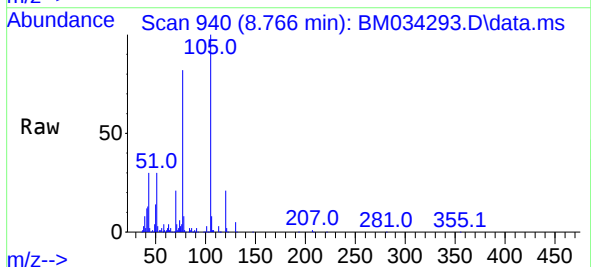
Manual Integrations  
APPROVED

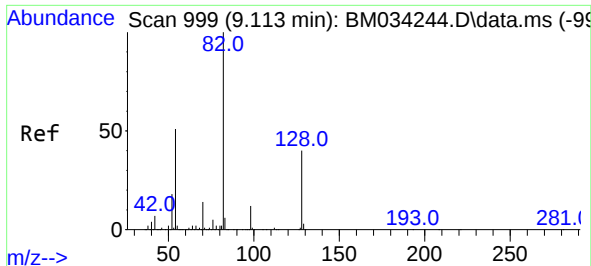
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#22  
Acetophenone  
Concen: 9.477 ng  
RT: 8.766 min Scan# 940  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

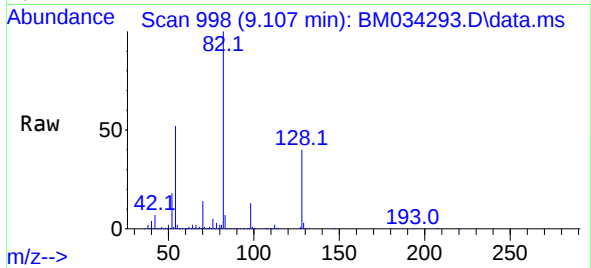
Tgt Ion:105 Resp: 177234  
Ion Ratio Lower Upper  
105 100  
71 3.5 3.0 4.4  
51 30.1 22.6 33.8  
120 20.7 17.5 26.3





#23  
Nitrobenzene-d5  
Concen: 82.848 ng  
RT: 9.107 min Scan# 999  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

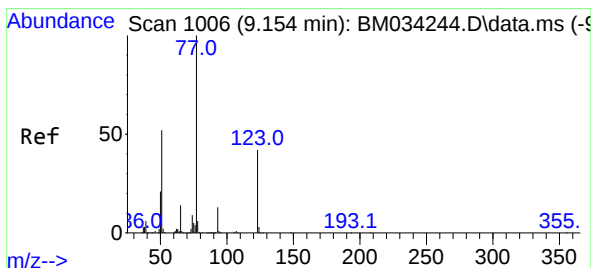
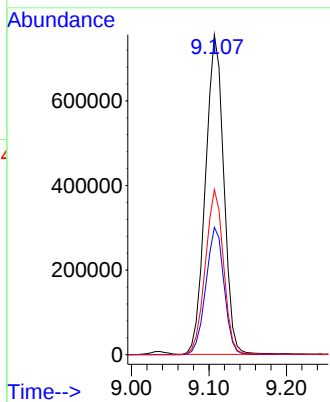
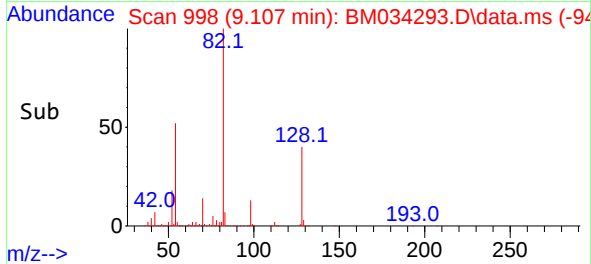
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



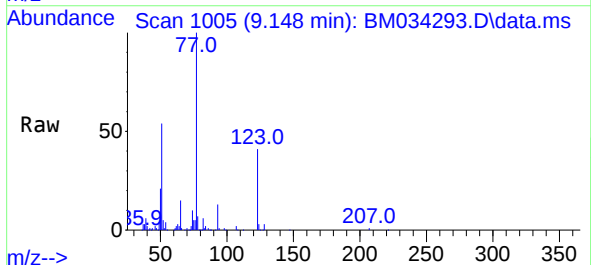
Tgt Ion: 82 Resp: 1240065  
Ion Ratio Lower Upper  
82 100  
128 39.8 31.9 47.9  
54 51.6 40.6 61.0

Manual Integrations  
APPROVED

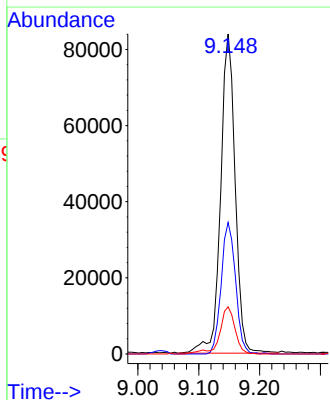
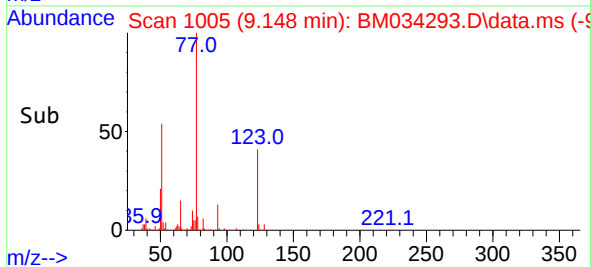
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

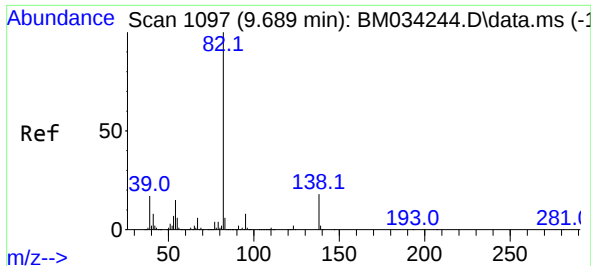


#24  
Nitrobenzene  
Concen: 9.987 ng  
RT: 9.148 min Scan# 1005  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



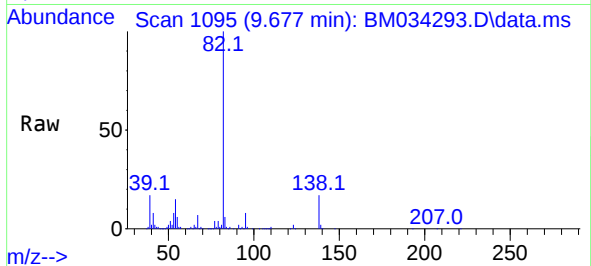
Tgt Ion: 77 Resp: 139558  
Ion Ratio Lower Upper  
77 100  
123 41.1 33.3 49.9  
65 14.7 11.0 16.4





#25  
Isophorone  
Concen: 10.141 ng  
RT: 9.677 min Scan# 1097  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

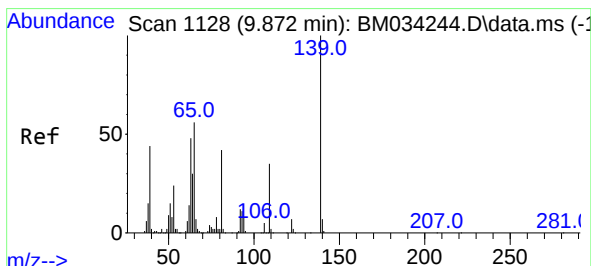
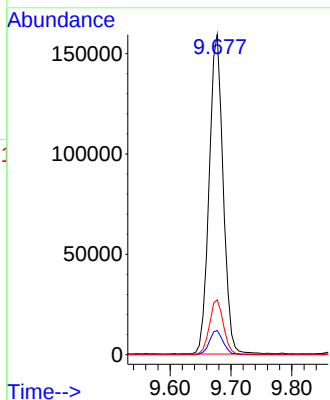
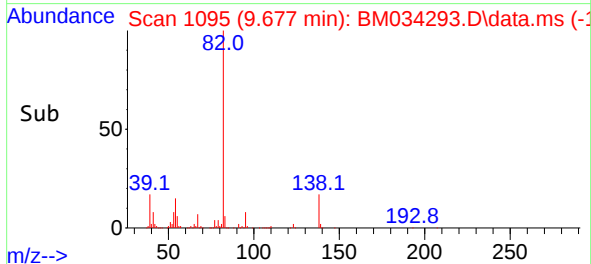
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion: 82 Resp: 253990  
Ion Ratio Lower Upper  
82 100  
95 7.5 6.6 9.8  
138 17.2 14.4 21.6

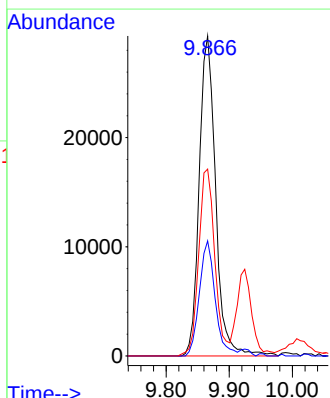
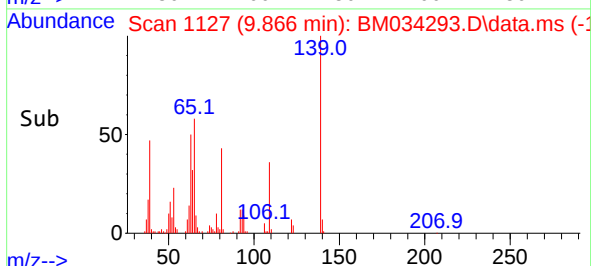
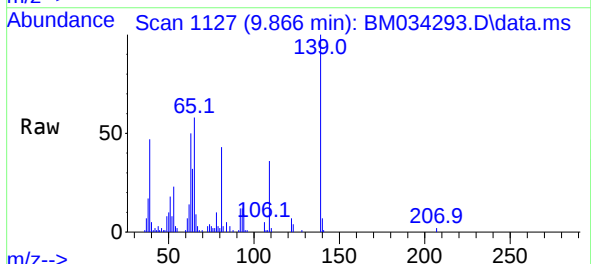
Manual Integrations  
APPROVED

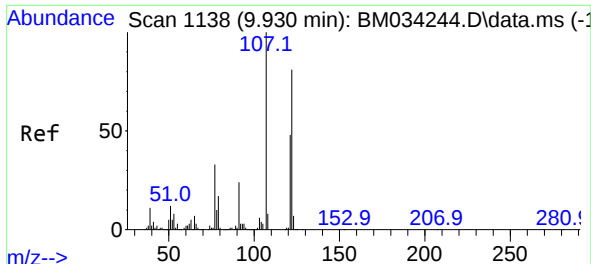
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#26  
2-Nitrophenol  
Concen: 8.545 ng  
RT: 9.866 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Tgt Ion:139 Resp: 52954  
Ion Ratio Lower Upper  
139 100  
109 35.9 28.1 42.1  
65 58.4 44.6 67.0





#27

2,4-Dimethylphenol

Concen: 9.789 ng

RT: 9.925 min Scan# 1137

Delta R.T. -0.006 min

Lab File: BM034293.D

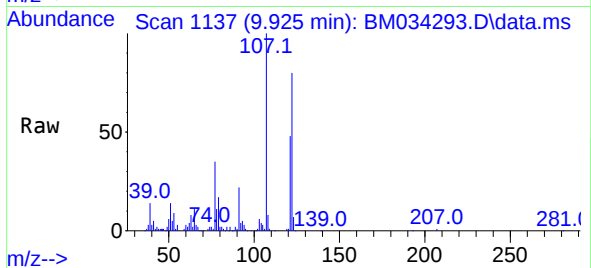
Acq: 21 Mar 2022 18:16

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2021



Tgt Ion:122 Resp: 9499

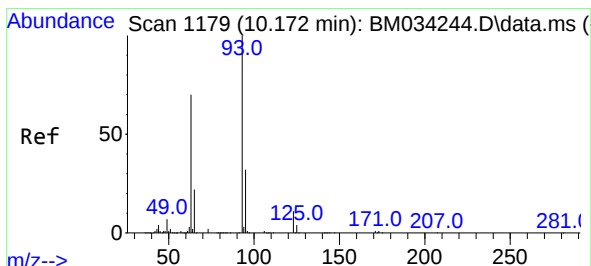
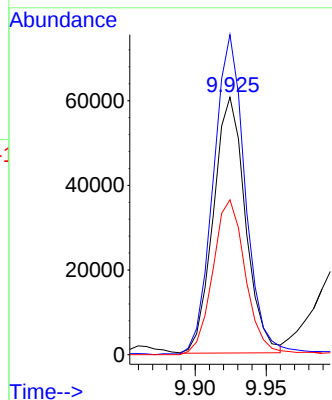
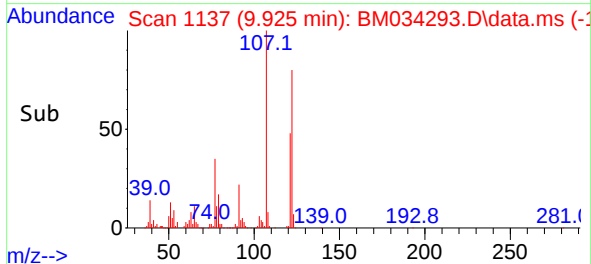
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 122 | 100   |       |       |
| 107 | 124.3 | 99.0  | 148.6 |
| 121 | 60.2  | 47.7  | 71.5  |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/22/2022

Supervised By :Jagrut Upadhyay 03/22/2022



#28

bis(2-Chloroethoxy)methane

Concen: 9.372 ng

RT: 10.160 min Scan# 1177

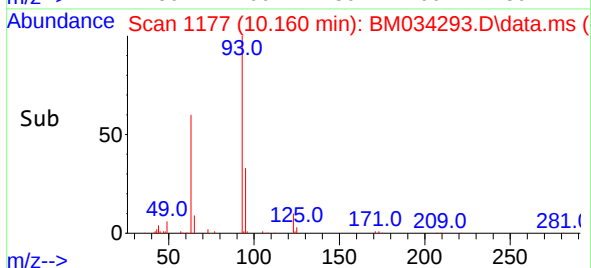
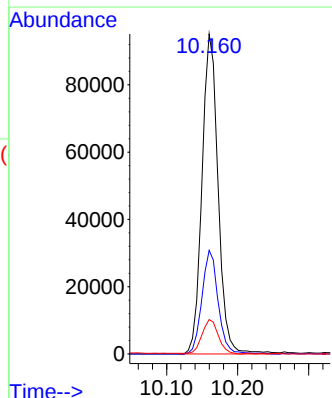
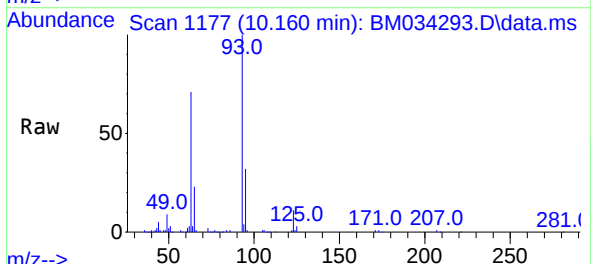
Delta R.T. -0.012 min

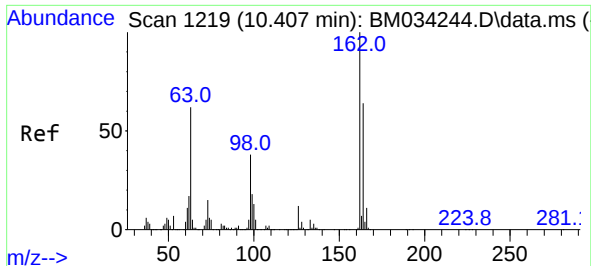
Lab File: BM034293.D

Acq: 21 Mar 2022 18:16

Tgt Ion: 93 Resp: 150286

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 95  | 32.4  | 26.0  | 39.0  |
| 123 | 10.8  | 9.0   | 13.4  |





#29

2,4-Dichlorophenol

Concen: 8.842 ng

RT: 10.401 min Scan# 1218

Delta R.T. -0.006 min

Lab File: BM034293.D

Acq: 21 Mar 2022 18:16

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2021

Tgt Ion:162 Resp: 99689

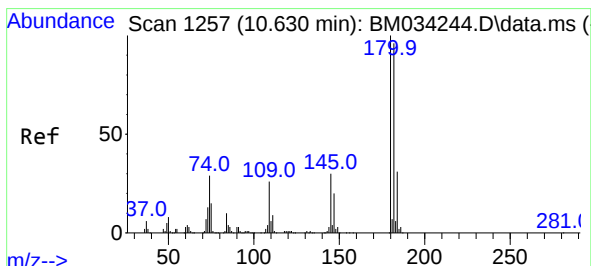
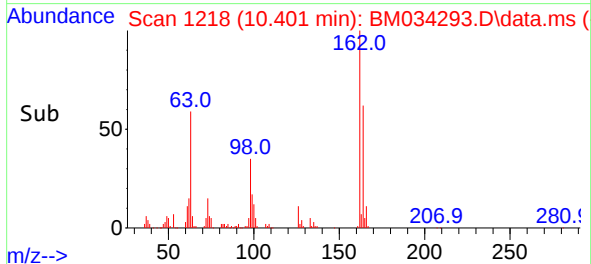
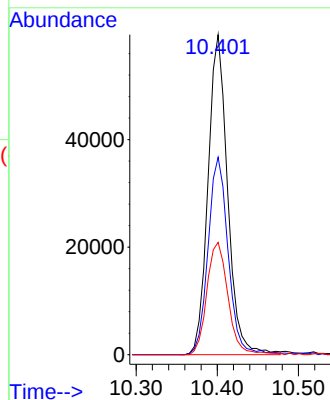
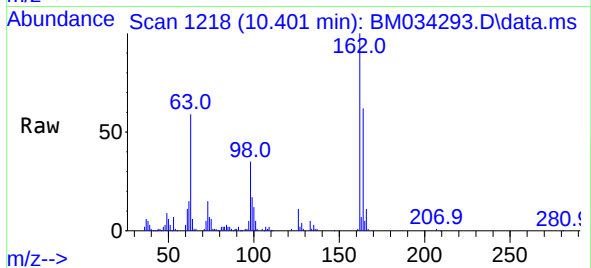
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 162 | 100   |       |       |
| 164 | 61.7  | 43.9  | 83.9  |
| 98  | 35.1  | 17.6  | 57.6  |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/22/2022

Supervised By :Jagrut Upadhyay 03/22/2022



#30

1,2,4-Trichlorobenzene

Concen: 9.202 ng

RT: 10.619 min Scan# 1255

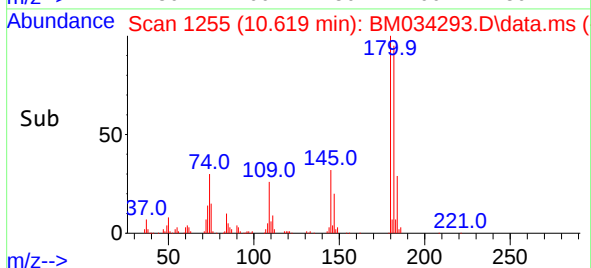
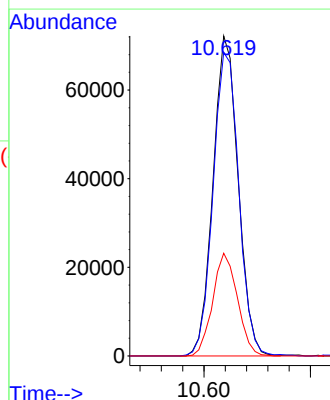
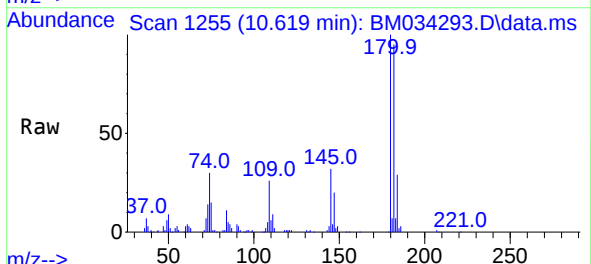
Delta R.T. -0.012 min

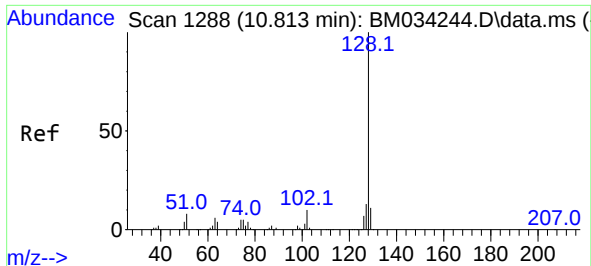
Lab File: BM034293.D

Acq: 21 Mar 2022 18:16

Tgt Ion:180 Resp: 117933

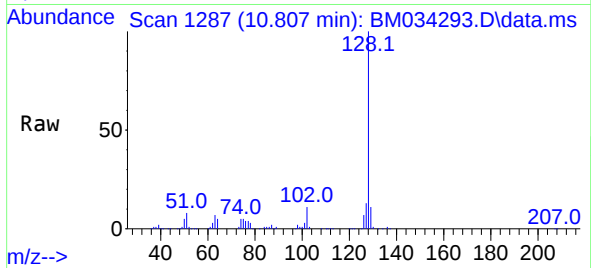
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.8  | 77.0  | 115.4 |
| 145 | 32.1  | 23.7  | 35.5  |





#31  
Naphthalene  
Concen: 9.444 ng  
RT: 10.807 min Scan# 11152  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

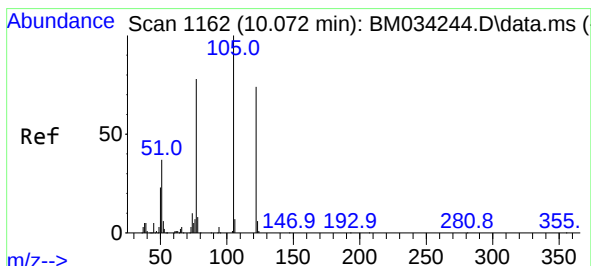
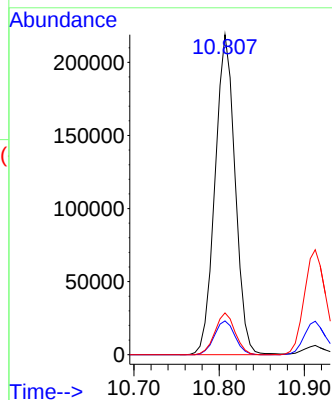
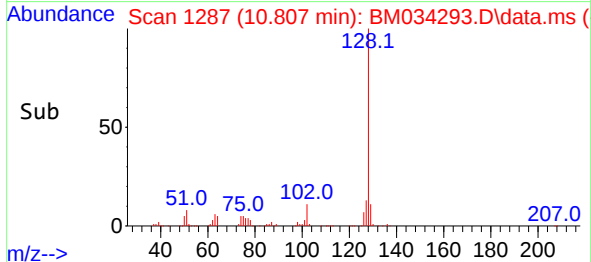
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



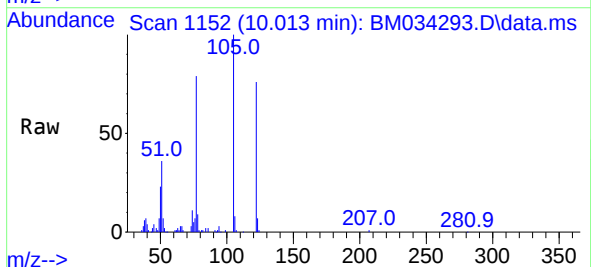
Tgt Ion:128 Resp: 35854  
Ion Ratio Lower Upper  
128 100  
129 10.5 8.8 13.2  
127 13.0 10.2 15.4

Manual Integrations  
APPROVED

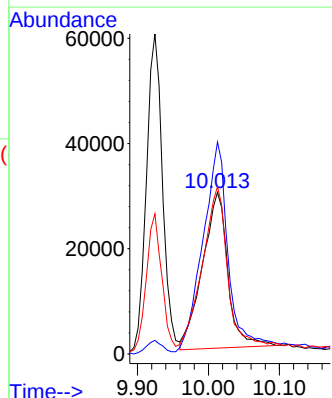
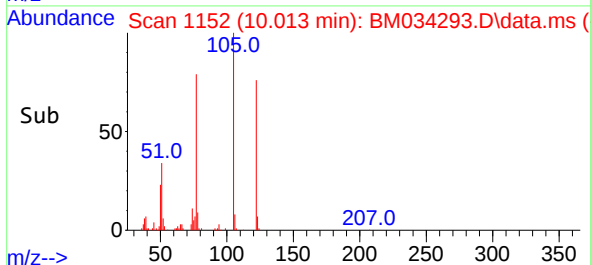
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

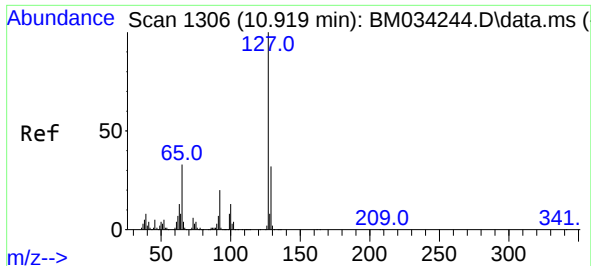


#32  
Benzoic acid  
Concen: 9.196 ng  
RT: 10.013 min Scan# 1152  
Delta R.T. -0.059 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



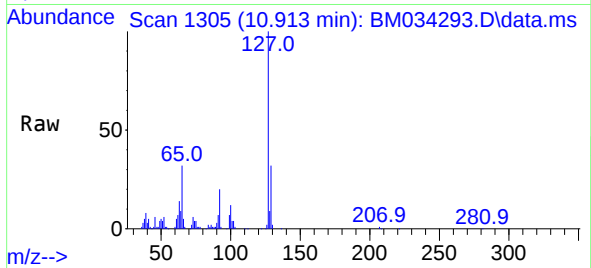
Tgt Ion:122 Resp: 73797  
Ion Ratio Lower Upper  
122 100  
105 131.3 109.6 149.6  
77 103.8 83.1 123.1





#33  
4-Chloroaniline  
Concen: 9.146 ng  
RT: 10.913 min Scan# 1305  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

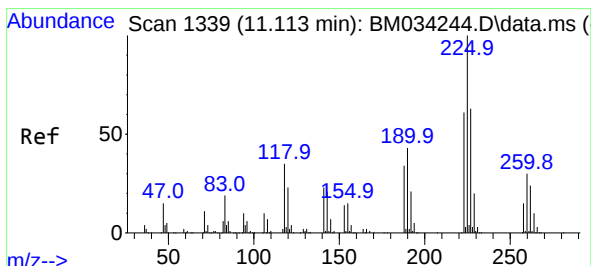
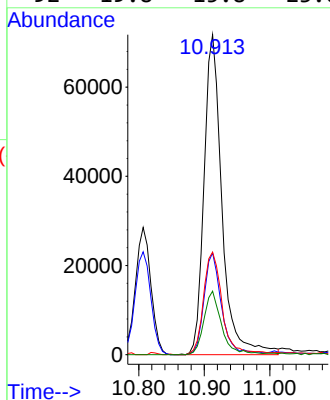
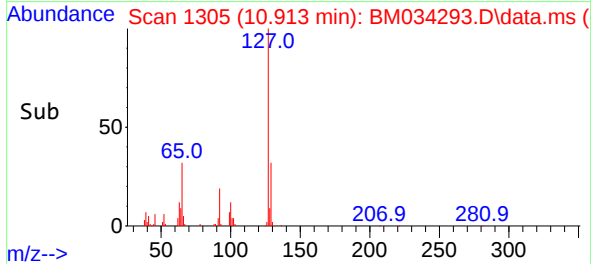
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:127 Resp: 136980  
Ion Ratio Lower Upper  
127 100  
129 31.8 25.4 38.2  
65 32.1 26.2 39.2  
92 19.8 15.8 23.6

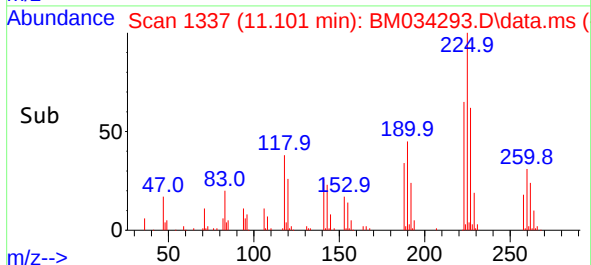
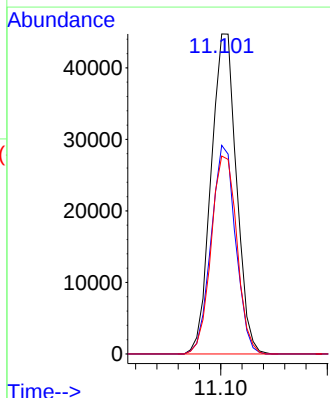
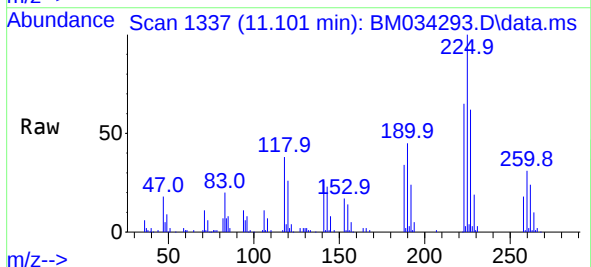
Manual Integrations  
APPROVED

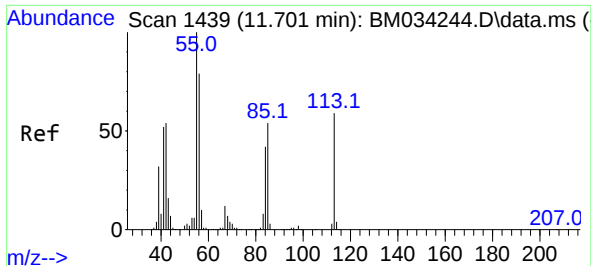
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#34  
Hexachlorobutadiene  
Concen: 9.089 ng  
RT: 11.101 min Scan# 1337  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

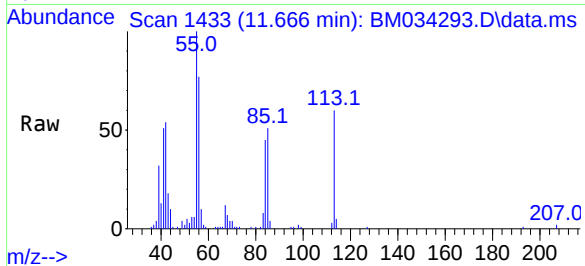
Tgt Ion:225 Resp: 73782  
Ion Ratio Lower Upper  
225 100  
223 65.2 49.0 73.4  
227 61.9 50.2 75.2





#35  
Caprolactam  
Concen: 9.060 ng  
RT: 11.666 min Scan# 1433  
Delta R.T. -0.035 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

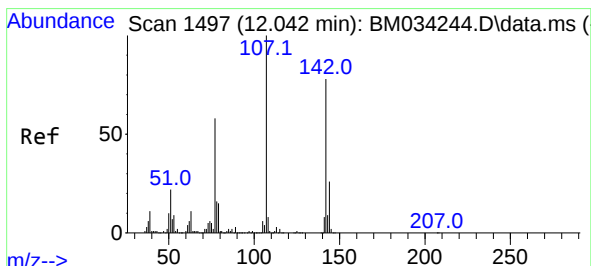
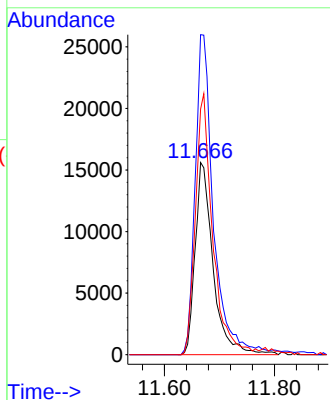
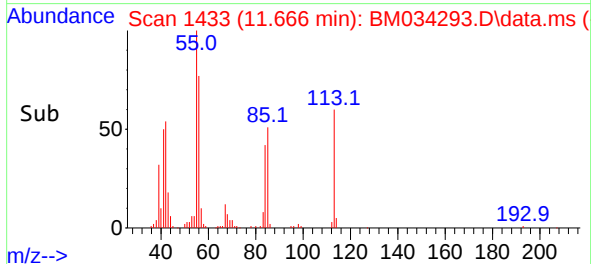
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



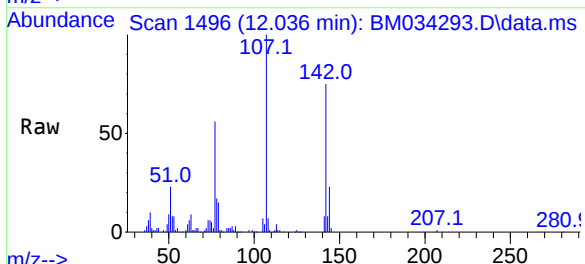
Tgt Ion:113 Resp: 35509  
Ion Ratio Lower Upper  
113 100  
55 166.5 148.9 188.9  
56 127.8 113.3 153.3

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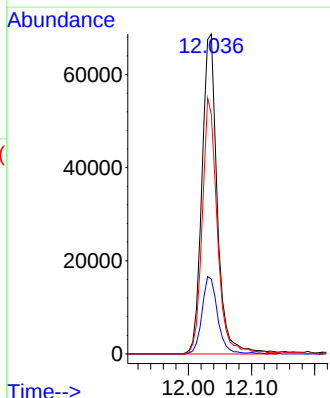
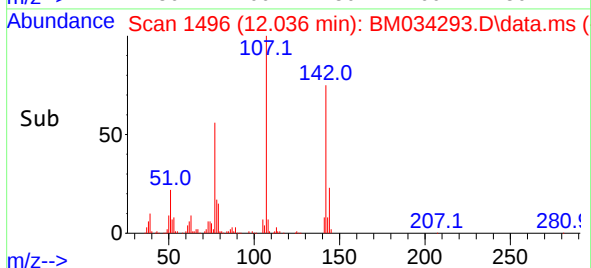
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

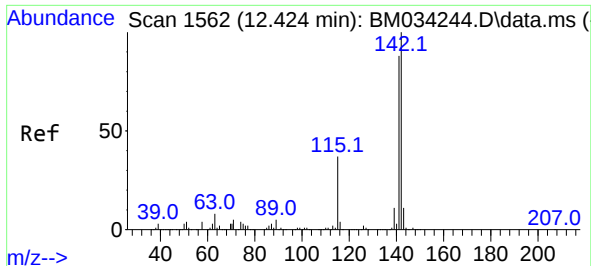


#36  
4-Chloro-3-methylphenol  
Concen: 8.992 ng  
RT: 12.036 min Scan# 1496  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



Tgt Ion:107 Resp: 116184  
Ion Ratio Lower Upper  
107 100  
144 23.4 20.8 31.2  
142 74.9 62.7 94.1





#37

2-Methylnaphthalene

Concen: 9.444 ng

RT: 12.418 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM034293.D

Acq: 21 Mar 2022 18:16

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT4-2021

Tgt Ion:142 Resp: 25584

Ion Ratio Lower Upper

142 100

141 86.2 70.1 105.1

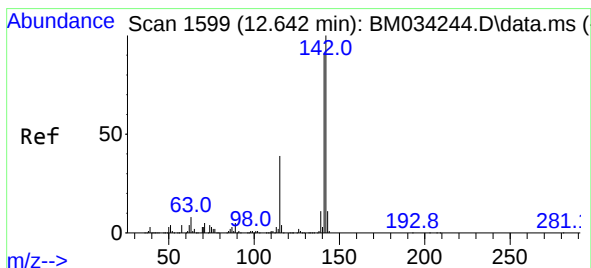
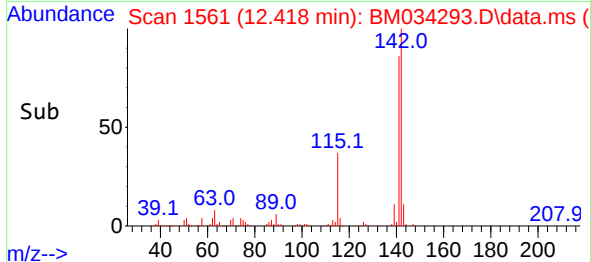
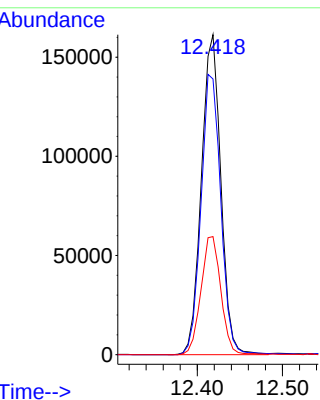
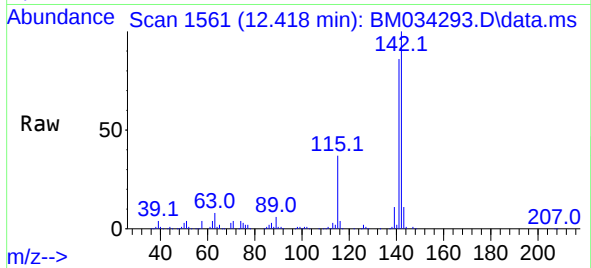
115 36.9 29.9 44.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/22/2022

Supervised By :Jagrut Upadhyay 03/22/2022



#38

1-Methylnaphthalene

Concen: 9.386 ng

RT: 12.636 min Scan# 1598

Delta R.T. -0.006 min

Lab File: BM034293.D

Acq: 21 Mar 2022 18:16

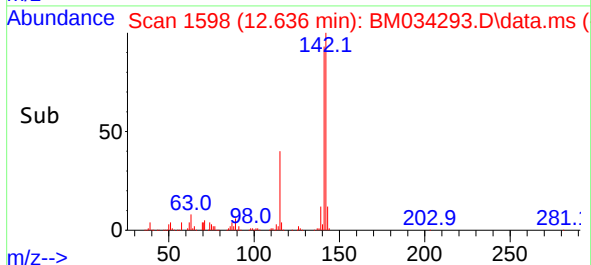
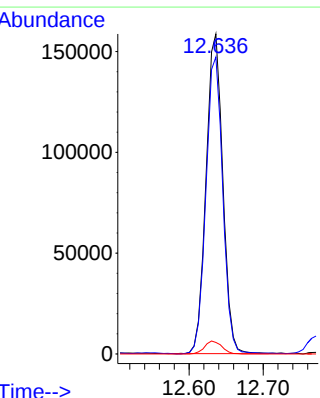
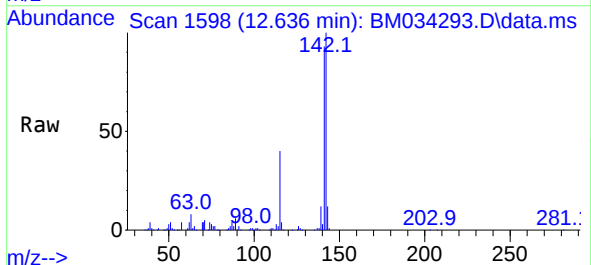
Tgt Ion:142 Resp: 248746

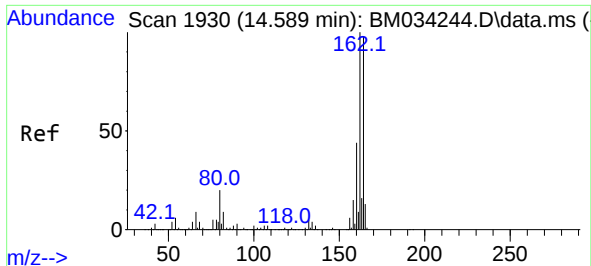
Ion Ratio Lower Upper

142 100

141 92.8 73.0 109.6

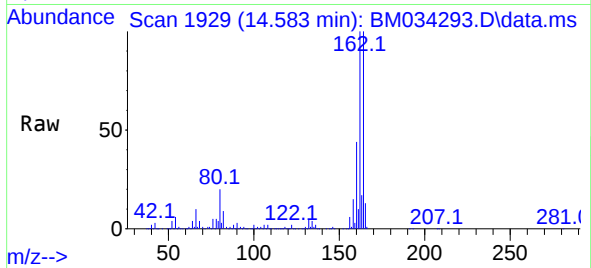
116 3.6 3.2 4.8





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.583 min Scan# 1930  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

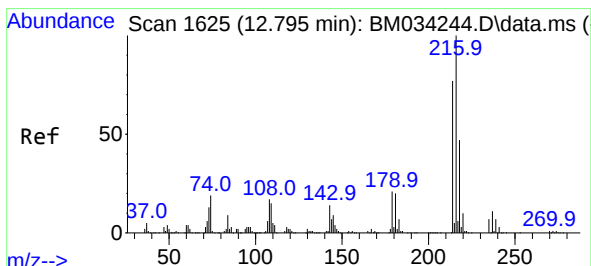
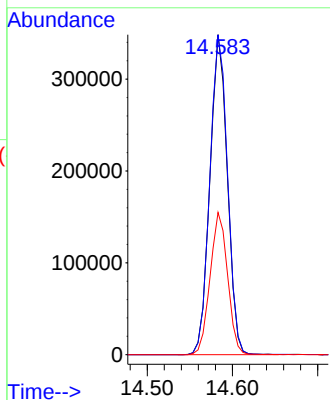
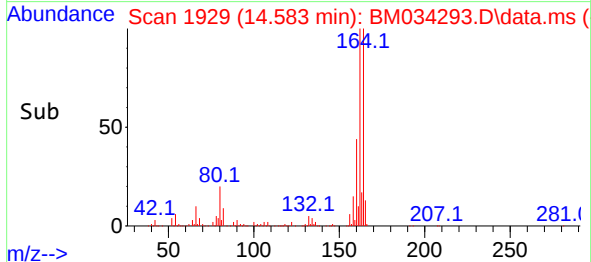
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



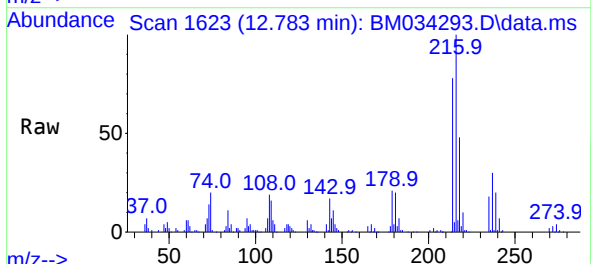
Tgt Ion:164 Resp: 49537  
Ion Ratio Lower Upper  
164 100  
162 99.9 81.6 122.4  
160 44.5 35.6 53.4

Manual Integrations  
APPROVED

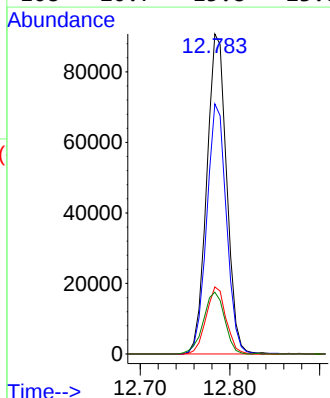
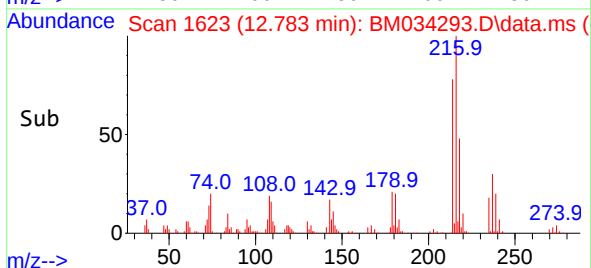
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

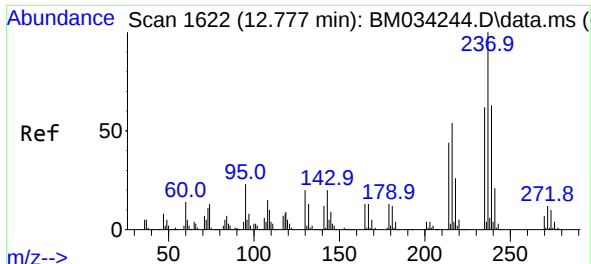


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 9.318 ng  
RT: 12.783 min Scan# 1623  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



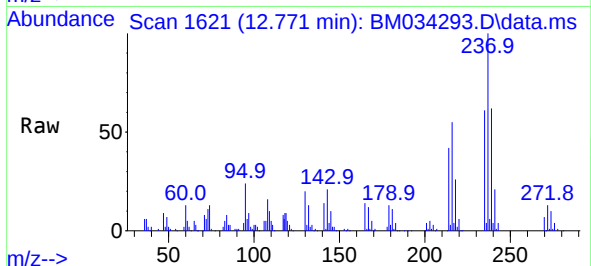
Tgt Ion:216 Resp: 139300  
Ion Ratio Lower Upper  
216 100  
214 77.3 62.7 94.1  
179 21.0 17.2 25.8  
108 20.7 15.8 23.8





#41  
Hexachlorocyclopentadiene  
Concen: 10.703 ng  
RT: 12.771 min Scan# 1622  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

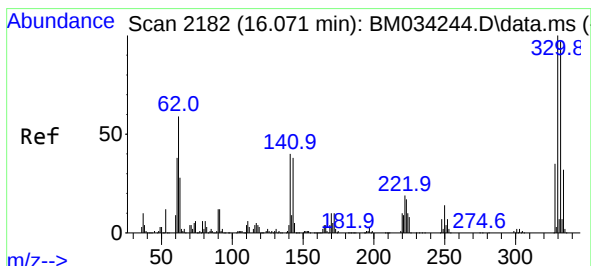
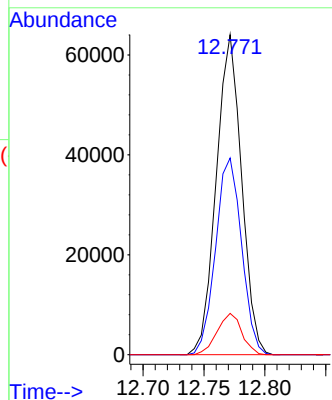
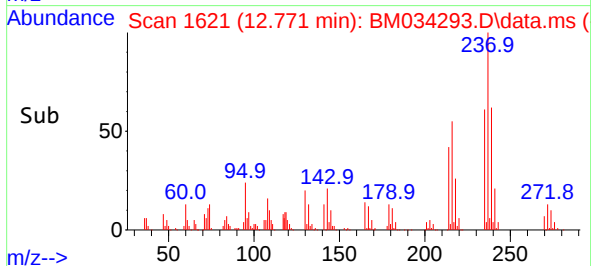
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



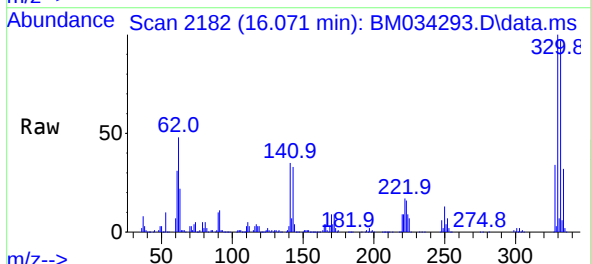
Tgt Ion:237 Resp: 92648  
Ion Ratio Lower Upper  
237 100  
235 61.4 42.1 82.1  
272 12.9 0.0 32.3

Manual Integrations  
APPROVED

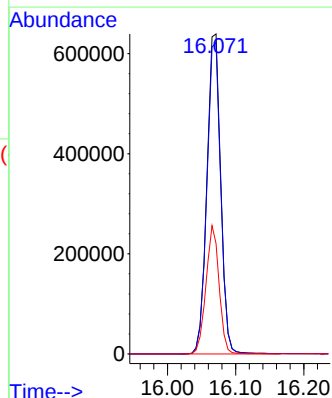
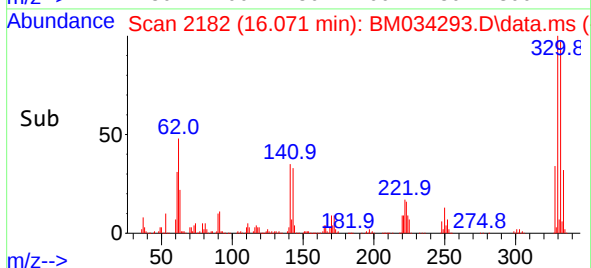
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

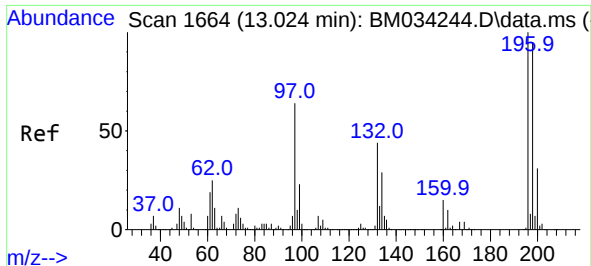


#42  
2,4,6-Tribromophenol  
Concen: 135.513 ng  
RT: 16.071 min Scan# 2182  
Delta R.T. -0.000 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



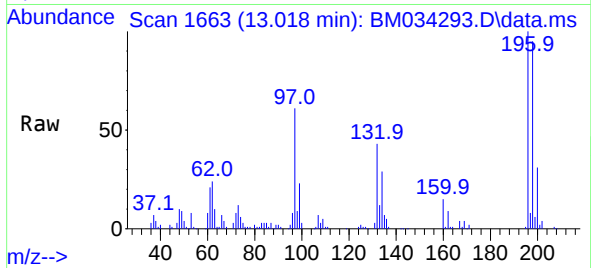
Tgt Ion:330 Resp: 904819  
Ion Ratio Lower Upper  
330 100  
332 97.0 78.2 117.4  
141 38.1 30.6 45.8





#43  
2,4,6-Trichlorophenol  
Concen: 8.336 ng  
RT: 13.018 min Scan# 1663  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

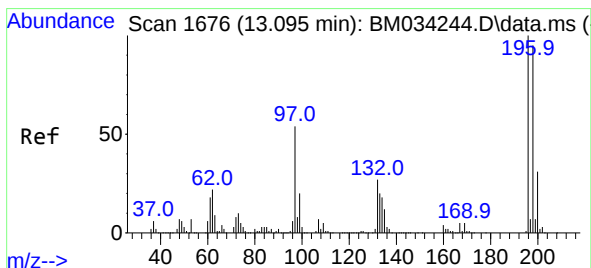
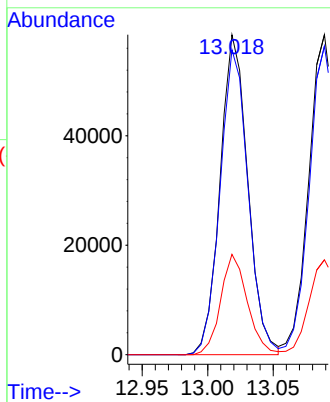
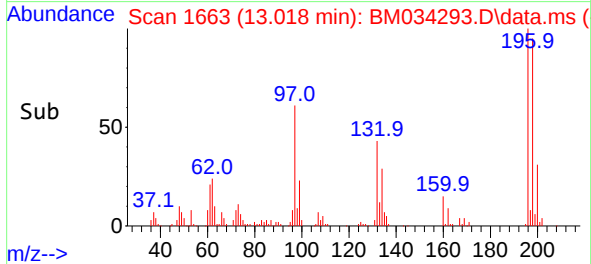
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



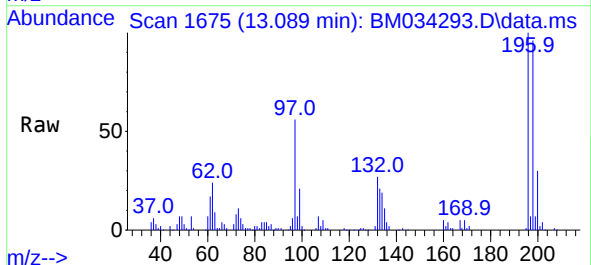
Tgt Ion:196 Resp: 86039  
Ion Ratio Lower Upper  
196 100  
198 95.4 76.1 114.1  
200 31.4 24.9 37.3

Manual Integrations  
APPROVED

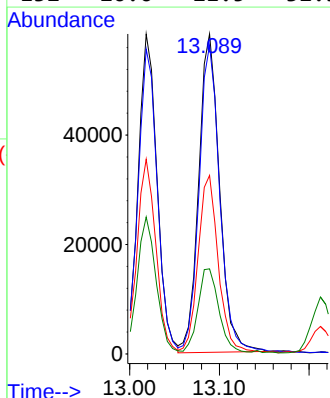
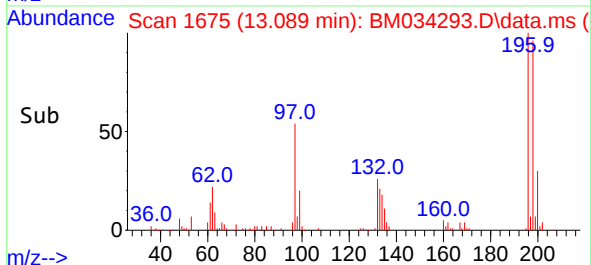
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

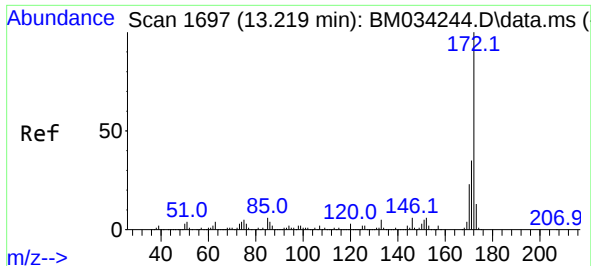


#44  
2,4,5-Trichlorophenol  
Concen: 8.460 ng  
RT: 13.089 min Scan# 1675  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



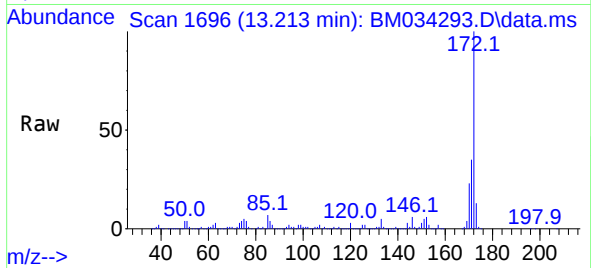
Tgt Ion:196 Resp: 93725  
Ion Ratio Lower Upper  
196 100  
198 96.5 75.9 113.9  
97 55.8 43.2 64.8  
132 26.6 21.5 32.3





#45  
2-Fluorobiphenyl  
Concen: 81.478 ng  
RT: 13.213 min Scan# 1696  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

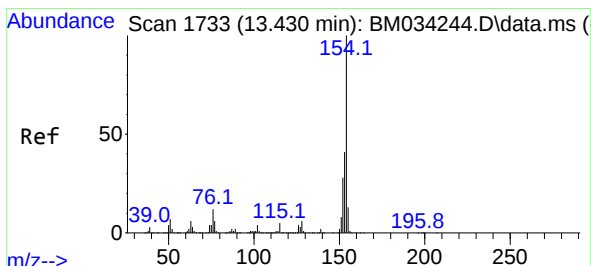
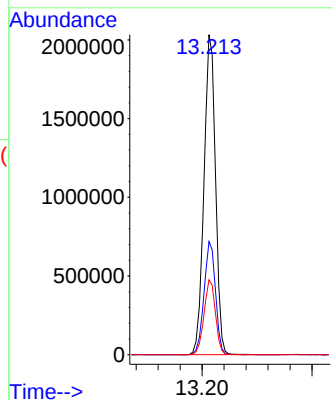
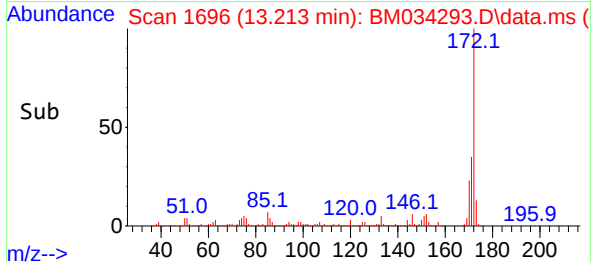
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:172 Resp: 2953670  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.0 42.0  
170 23.4 18.6 28.0

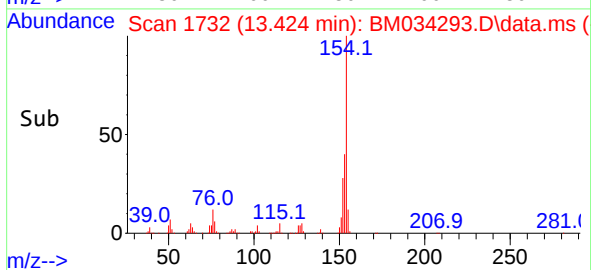
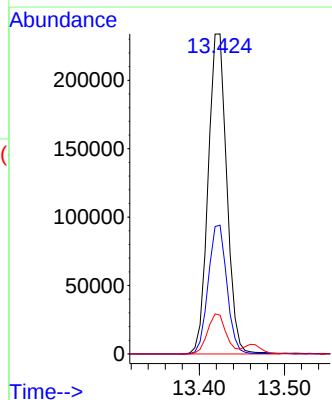
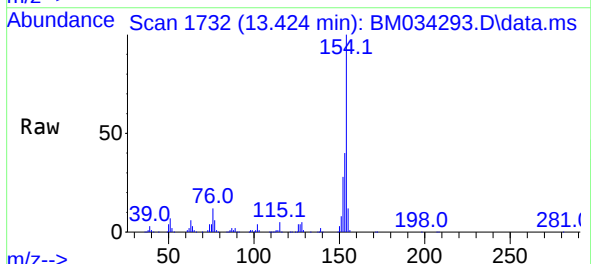
Manual Integrations  
APPROVED

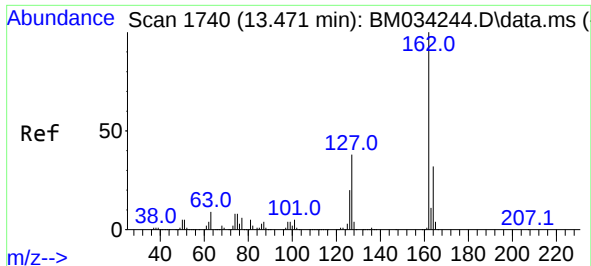
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#46  
1,1'-Biphenyl  
Concen: 9.386 ng  
RT: 13.424 min Scan# 1732  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Tgt Ion:154 Resp: 354508  
Ion Ratio Lower Upper  
154 100  
153 40.3 21.0 61.0  
76 12.1 0.0 32.1





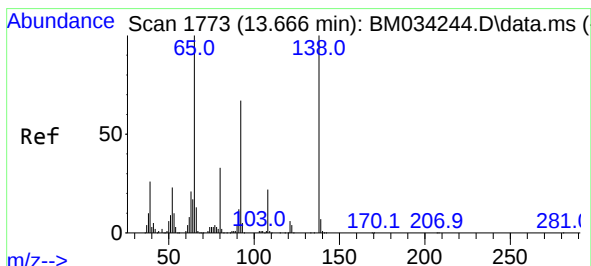
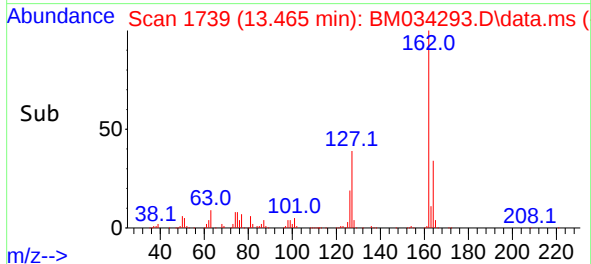
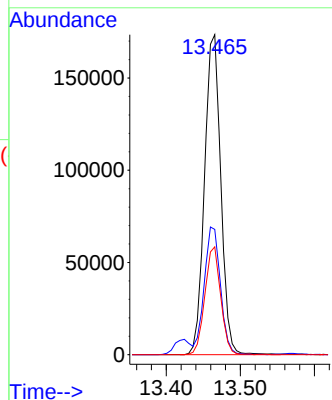
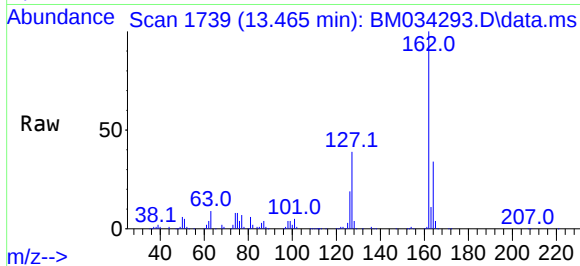
#47  
2-Chloronaphthalene  
Concen: 9.135 ng  
RT: 13.465 min Scan# 1739  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Tgt Ion:162 Resp: 26483  
Ion Ratio Lower Upper  
162 100  
127 39.2 30.4 45.6  
164 33.7 25.8 38.8

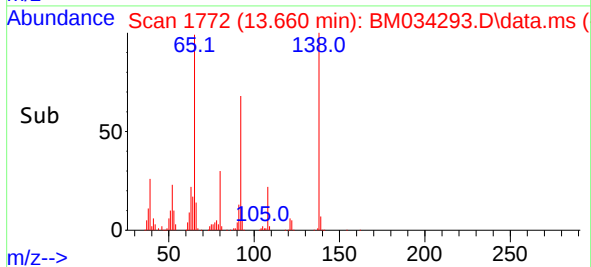
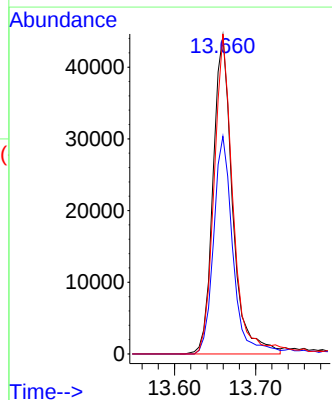
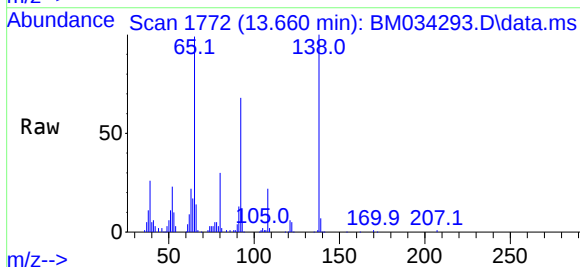
Manual Integrations  
APPROVED

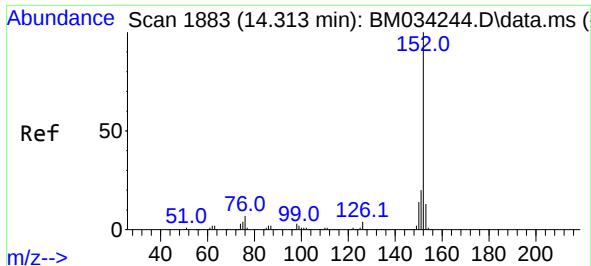
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#48  
2-Nitroaniline  
Concen: 8.347 ng  
RT: 13.660 min Scan# 1772  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

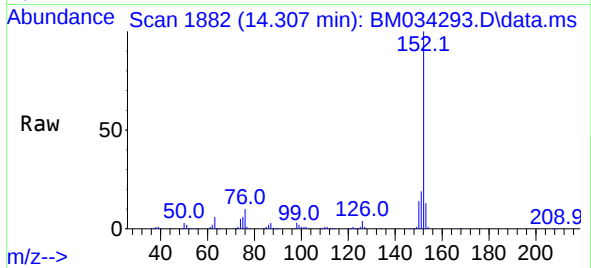
Tgt Ion: 65 Resp: 73989  
Ion Ratio Lower Upper  
65 100  
92 68.4 53.8 80.8  
138 100.5 79.9 119.9





#49  
Acenaphthylene  
Concen: 9.806 ng  
RT: 14.307 min Scan# 1882  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

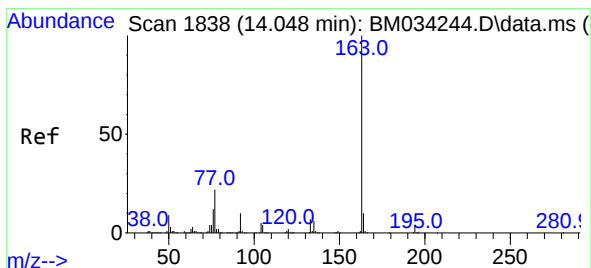
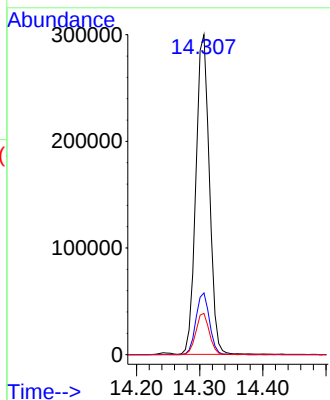
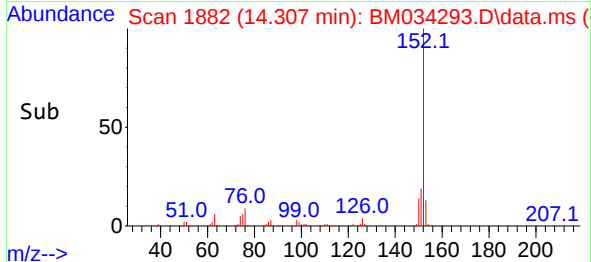
Instrument : BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



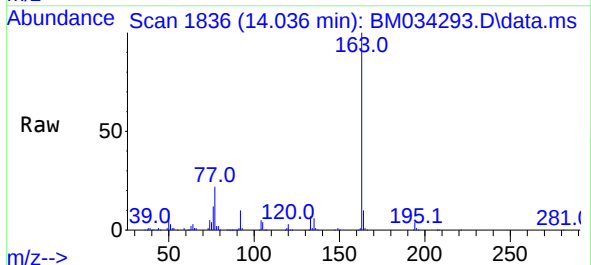
Tgt Ion:152 Resp: 443118  
Ion Ratio Lower Upper  
152 100  
151 19.3 15.9 23.9  
153 12.9 10.6 16.0

Manual Integrations  
APPROVED

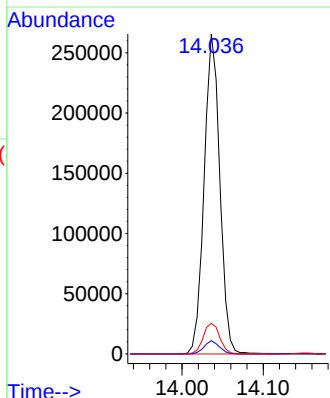
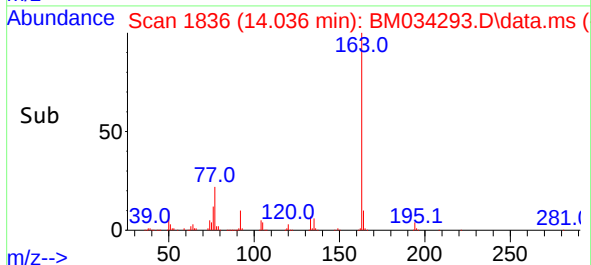
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

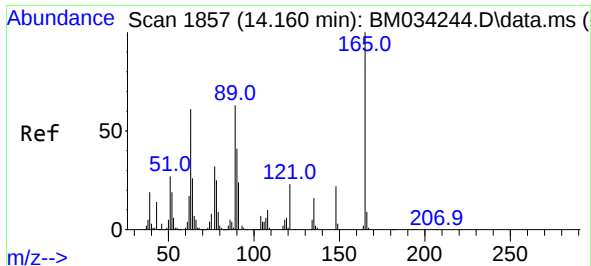


#50  
Dimethylphthalate  
Concen: 9.430 ng  
RT: 14.036 min Scan# 1836  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



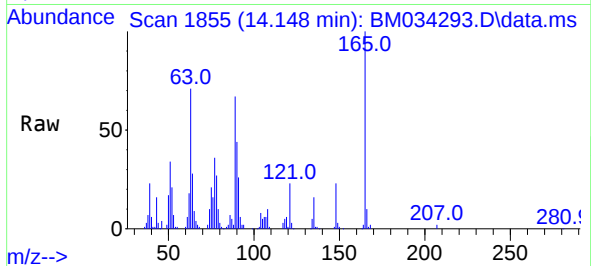
Tgt Ion:163 Resp: 355525  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.3 4.9  
164 9.5 8.1 12.1





#51  
2,6-Dinitrotoluene  
Concen: 9.463 ng  
RT: 14.148 min Scan# 1855  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

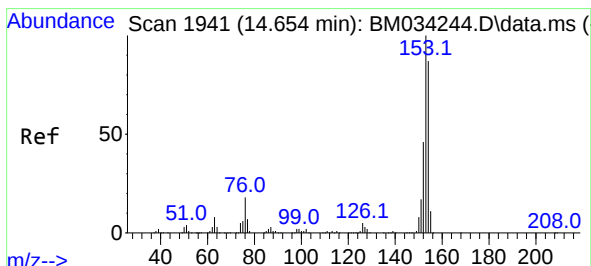
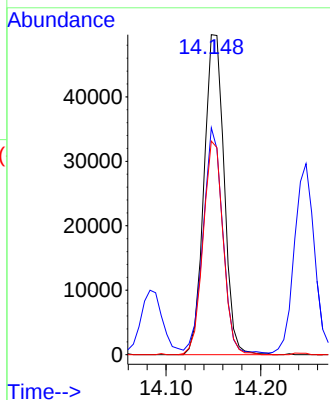
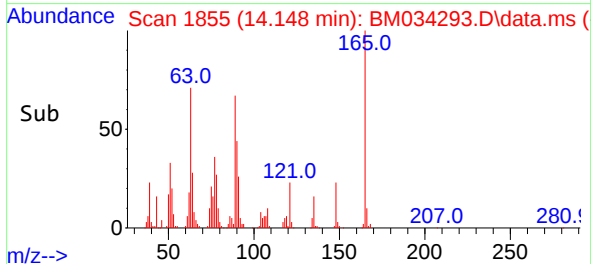
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



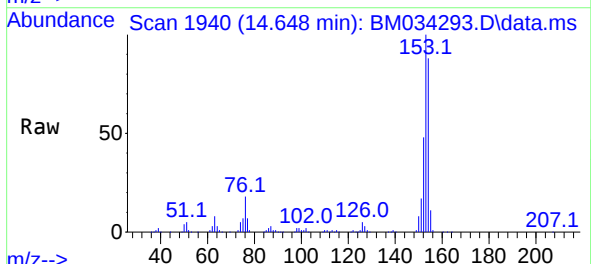
Tgt Ion:165 Resp: 73180  
Ion Ratio Lower Upper  
165 100  
63 70.9 51.9 77.9  
89 66.8 50.6 76.0

Manual Integrations  
APPROVED

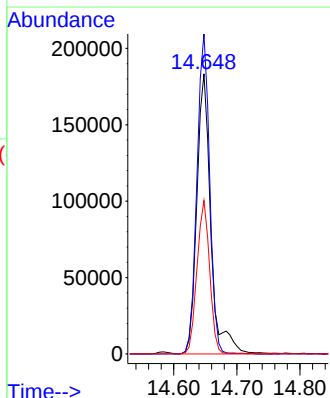
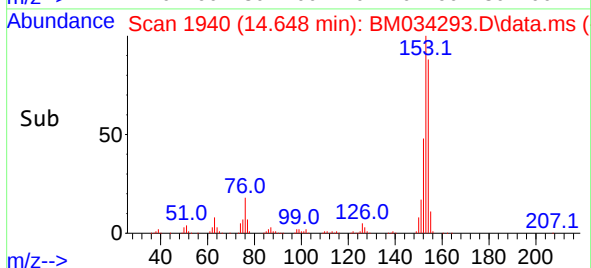
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

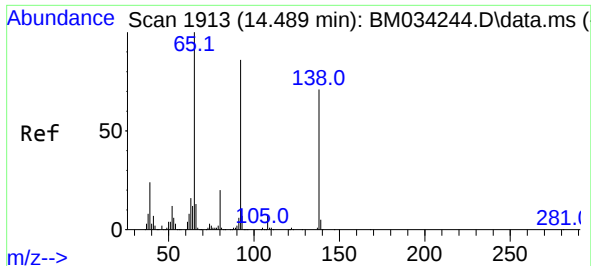


#52  
Acenaphthene  
Concen: 9.268 ng  
RT: 14.648 min Scan# 1940  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



Tgt Ion:154 Resp: 282086  
Ion Ratio Lower Upper  
154 100  
153 114.2 91.8 137.8  
152 54.8 42.6 64.0





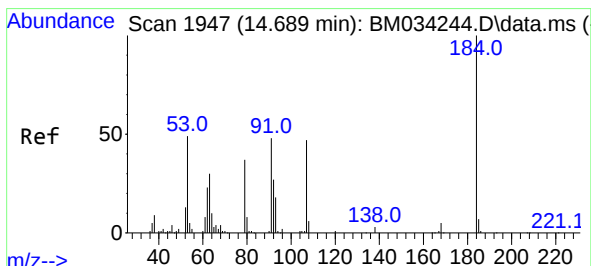
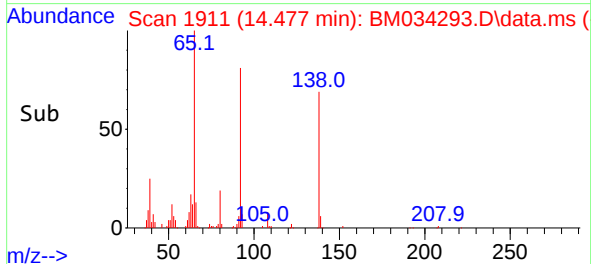
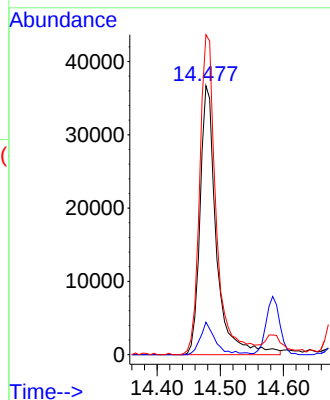
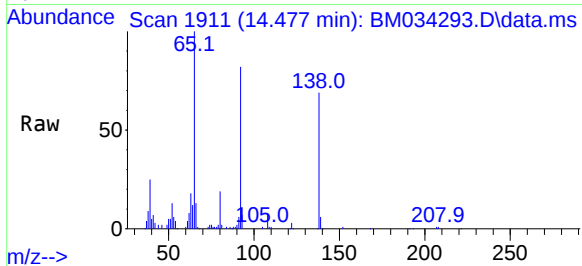
#53  
3-Nitroaniline  
Concen: 8.498 ng  
RT: 14.477 min Scan# 1913  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Tgt Ion:138 Resp: 6593  
Ion Ratio Lower Upper  
138 100  
108 12.1 8.3 12.5  
92 119.0 97.6 146.4

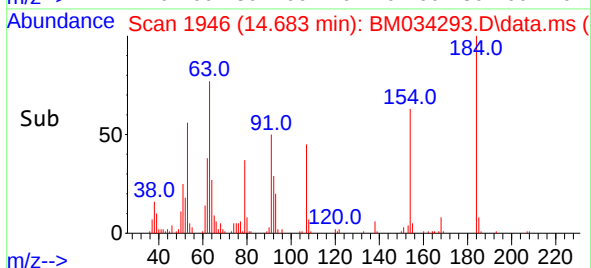
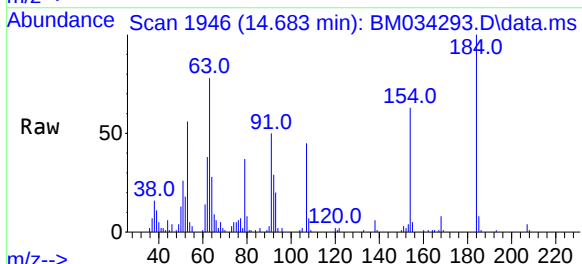
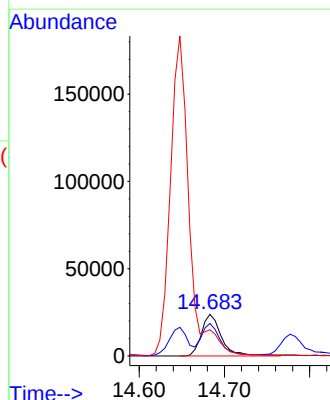
Manual Integrations  
APPROVED

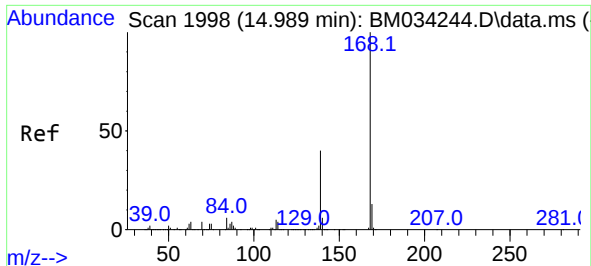
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#54  
2,4-Dinitrophenol  
Concen: 9.004 ng  
RT: 14.683 min Scan# 1946  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

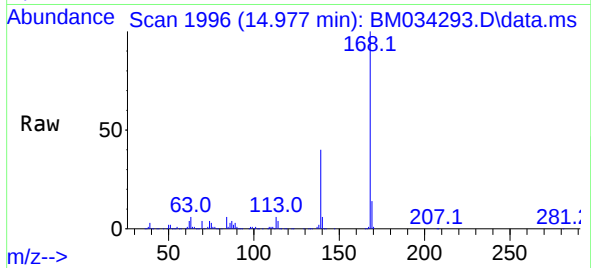
Tgt Ion:184 Resp: 39012  
Ion Ratio Lower Upper  
184 100  
63 78.0 58.3 87.5  
154 63.0 52.6 78.8





#55  
Dibenzofuran  
Concen: 9.238 ng  
RT: 14.977 min Scan# 1998  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

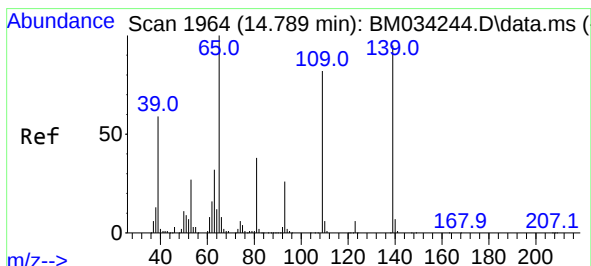
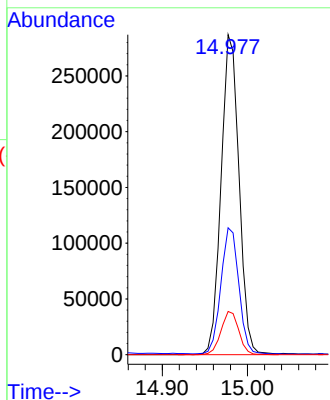
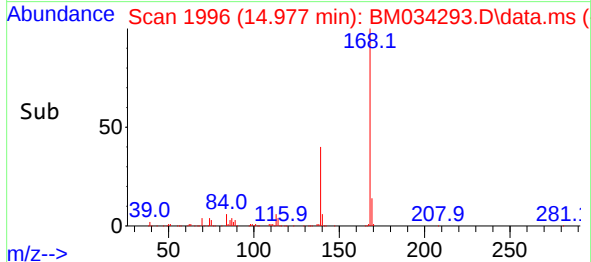
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



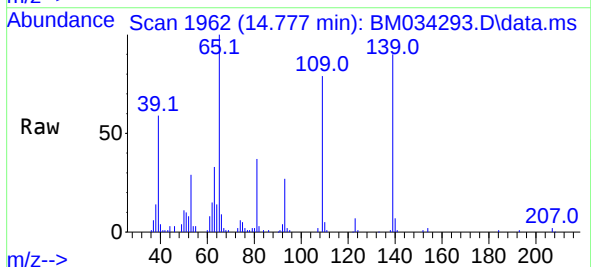
Tgt Ion:168 Resp: 41905  
Ion Ratio Lower Upper  
168 100  
139 39.6 32.4 48.6  
169 13.5 10.8 16.2

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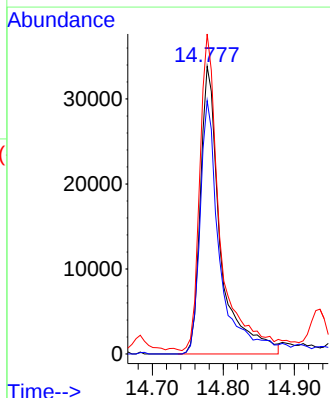
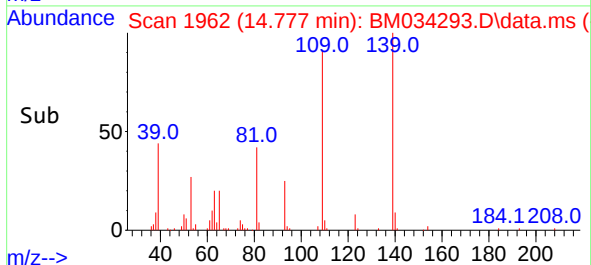
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

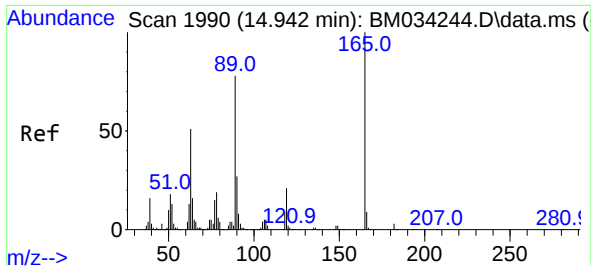


#56  
4-Nitrophenol  
Concen: 10.625 ng  
RT: 14.777 min Scan# 1962  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



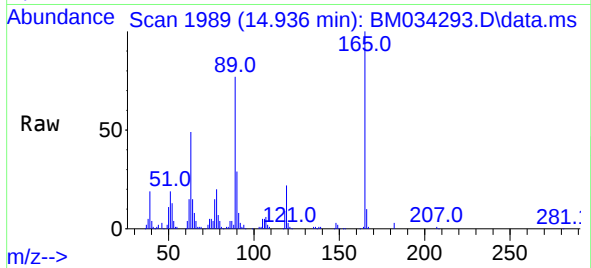
Tgt Ion:139 Resp: 66829  
Ion Ratio Lower Upper  
139 100  
109 88.1 66.3 106.3  
65 111.3 85.5 125.5





#57  
2,4-Dinitrotoluene  
Concen: 9.245 ng  
RT: 14.936 min Scan# 1990  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

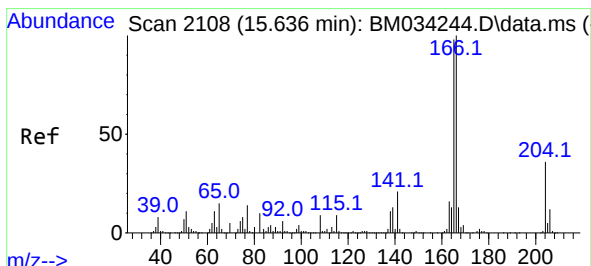
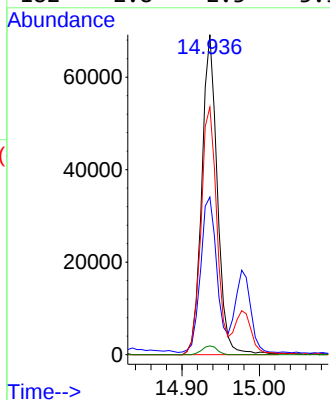
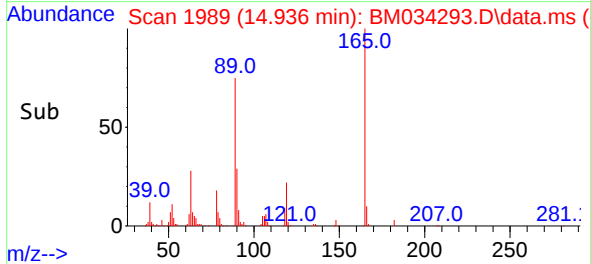
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:165 Resp: 96630  
Ion Ratio Lower Upper  
165 100  
63 49.3 40.6 61.0  
89 77.4 62.7 94.1  
182 2.8 2.3 3.5

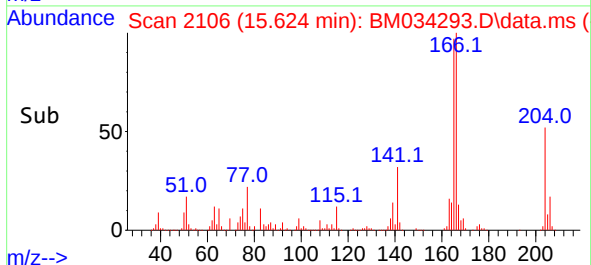
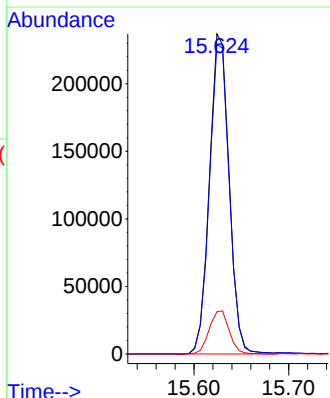
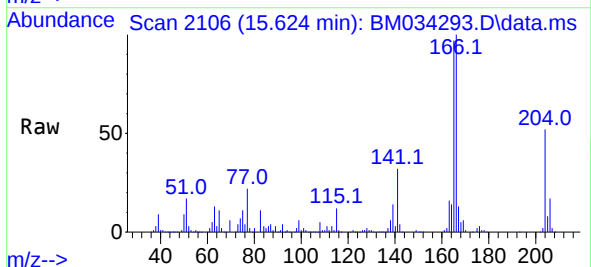
Manual Integrations  
APPROVED

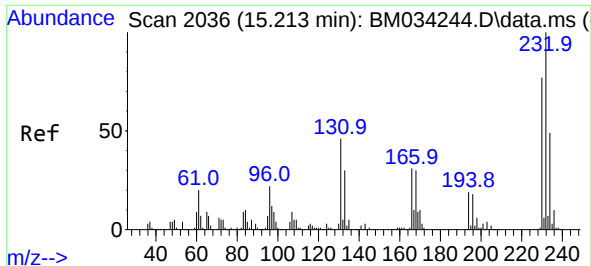
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#58  
Fluorene  
Concen: 9.278 ng  
RT: 15.624 min Scan# 2106  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

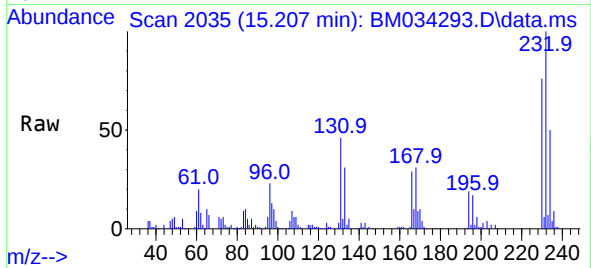
Tgt Ion:166 Resp: 341664  
Ion Ratio Lower Upper  
166 100  
165 96.8 78.0 117.0  
167 13.2 10.5 15.7





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 8.885 ng  
RT: 15.207 min Scan# 2035  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

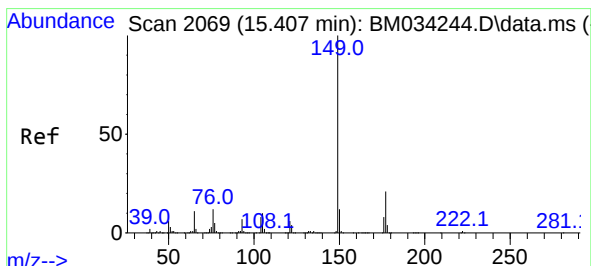
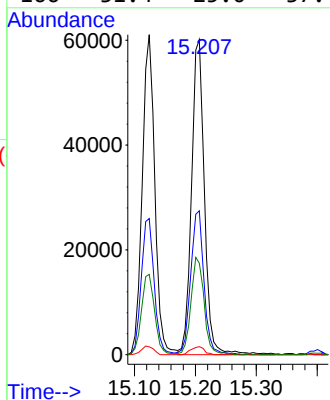
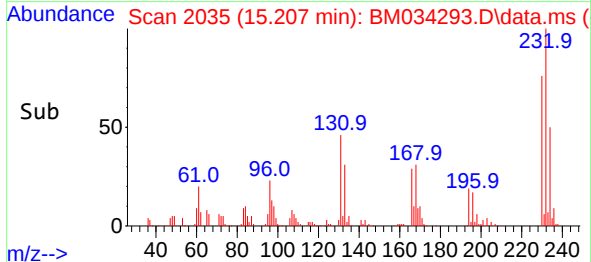
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



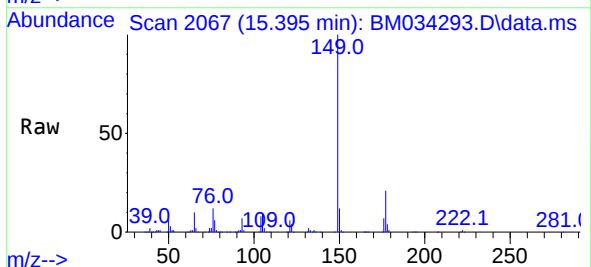
Tgt Ion:232 Resp: 88750  
Ion Ratio Lower Upper  
232 100  
131 47.0 38.0 57.0  
130 2.7 2.2 3.2  
166 31.4 25.0 37.4

Manual Integrations  
APPROVED

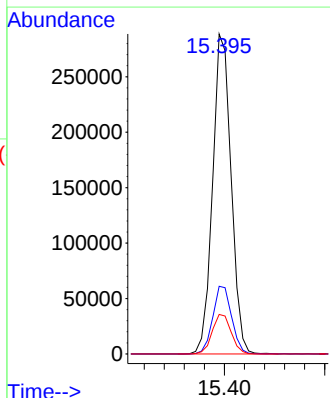
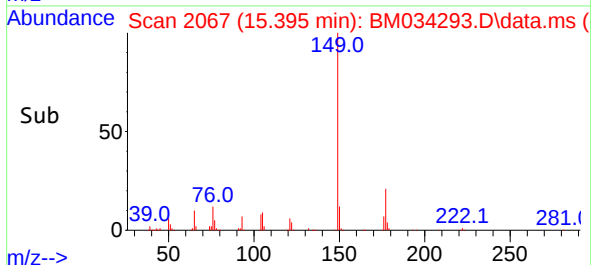
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

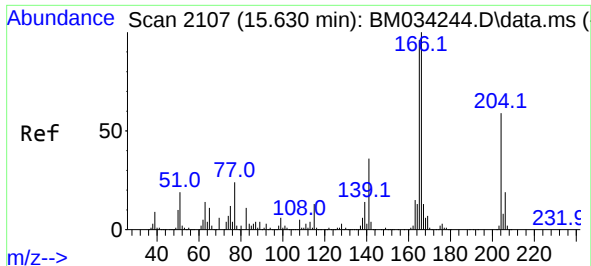


#60  
Diethylphthalate  
Concen: 9.541 ng  
RT: 15.395 min Scan# 2067  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



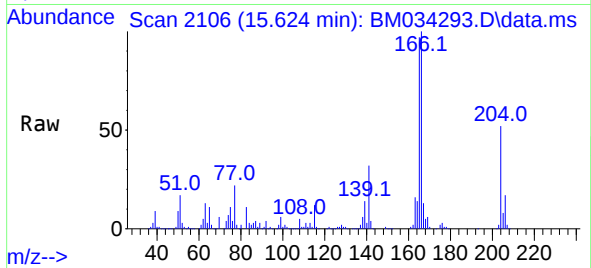
Tgt Ion:149 Resp: 369044  
Ion Ratio Lower Upper  
149 100  
177 21.1 17.1 25.7  
150 12.3 9.9 14.9





#61  
4-Chlorophenyl-phenylether  
Concen: 9.102 ng  
RT: 15.624 min Scan# 2108  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

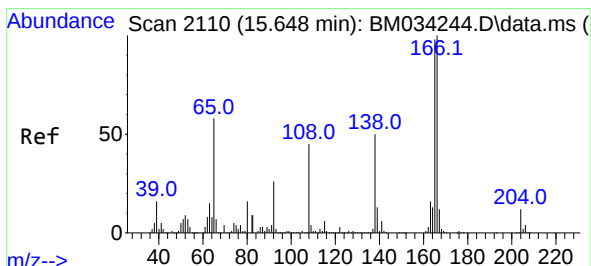
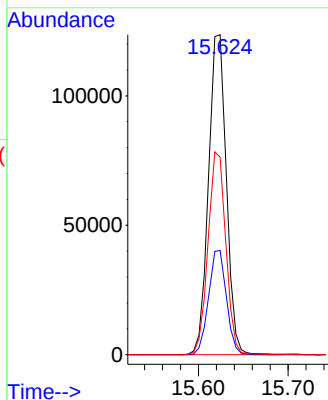
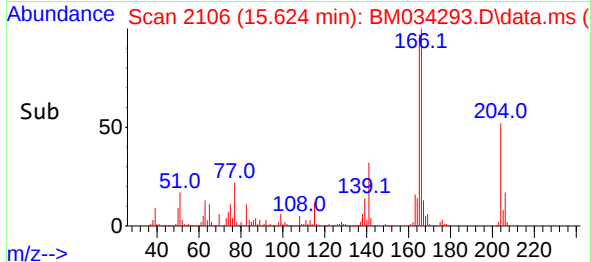
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



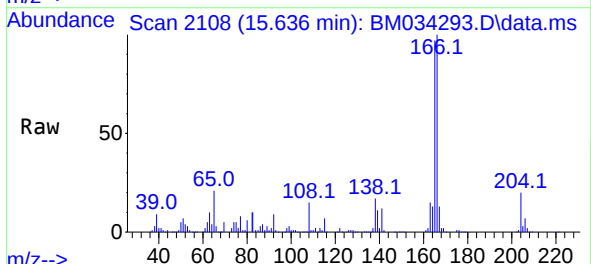
Tgt Ion:204 Resp: 171129  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.4 39.6  
141 61.7 49.4 74.2

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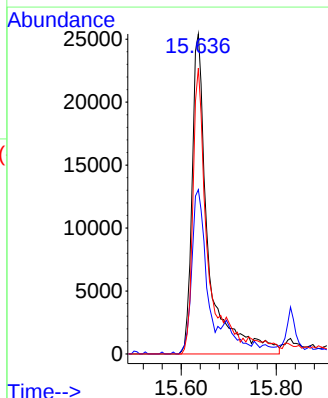
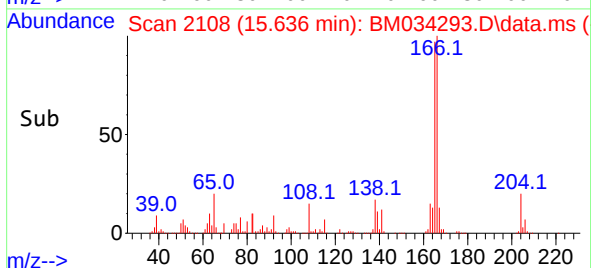
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

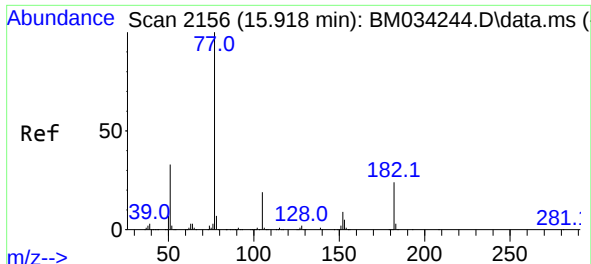


#62  
4-Nitroaniline  
Concen: 8.075 ng m  
RT: 15.636 min Scan# 2108  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



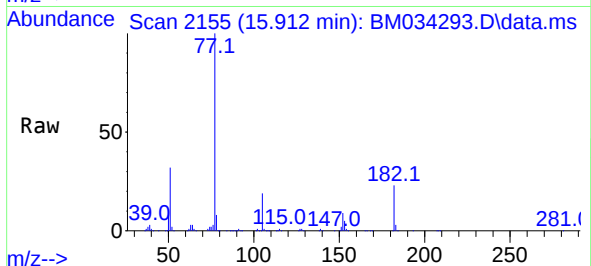
Tgt Ion:138 Resp: 60268  
Ion Ratio Lower Upper  
138 100  
92 51.4 32.6 72.6  
108 89.3 69.8 109.8





#63  
Azobenzene  
Concen: 9.389 ng  
RT: 15.912 min Scan# 2156  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

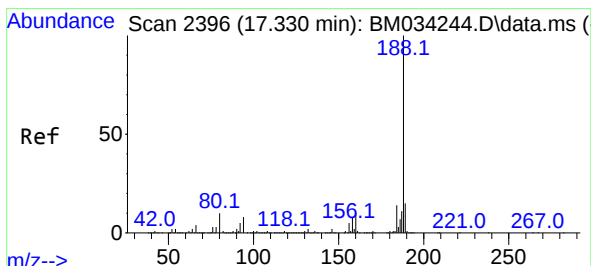
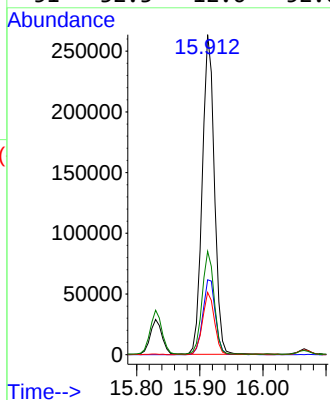
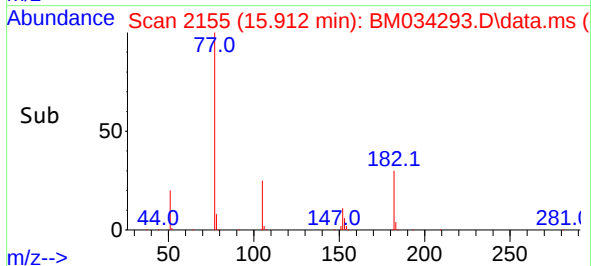
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion: 77 Resp: 350228  
Ion Ratio Lower Upper  
77 100  
182 23.4 4.4 44.4  
105 19.5 0.0 38.7  
51 32.3 12.6 52.6

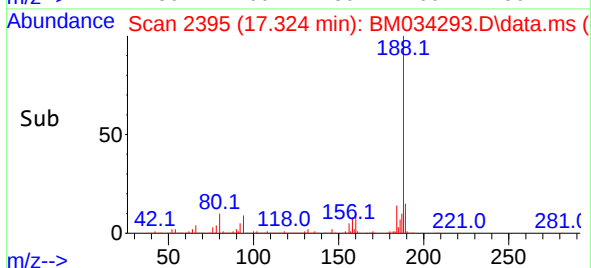
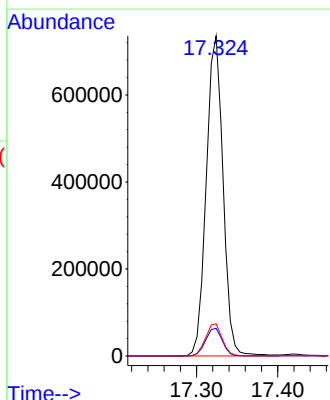
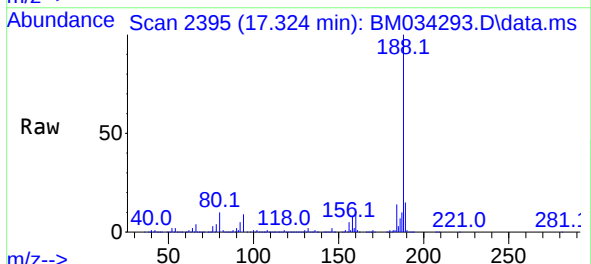
Manual Integrations  
APPROVED

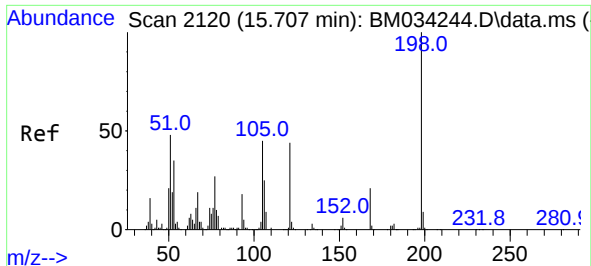
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.324 min Scan# 2395  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

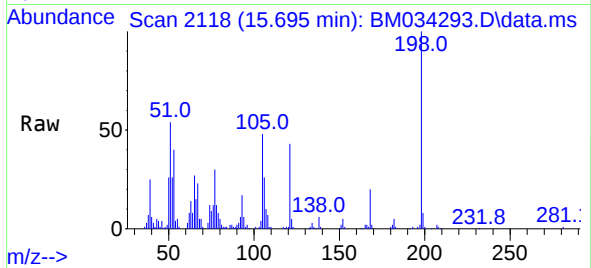
Tgt Ion:188 Resp: 1052427  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.6 9.8  
80 10.1 7.8 11.8





#65  
4,6-Dinitro-2-methylphenol  
Concen: 9.041 ng  
RT: 15.695 min Scan# 2118  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

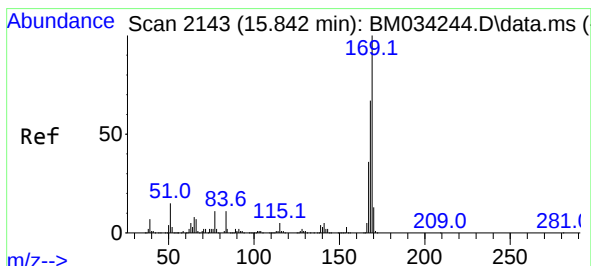
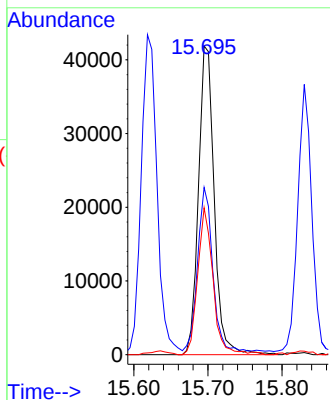
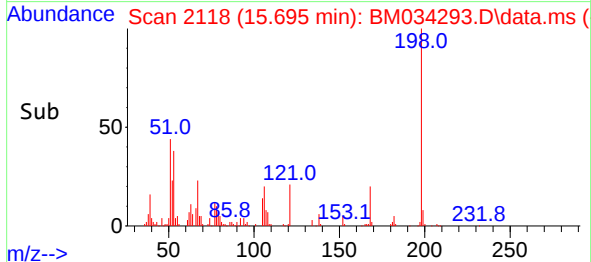
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:198 Resp: 61869  
Ion Ratio Lower Upper  
198 100  
51 54.1 29.0 69.0  
105 47.6 25.3 65.3

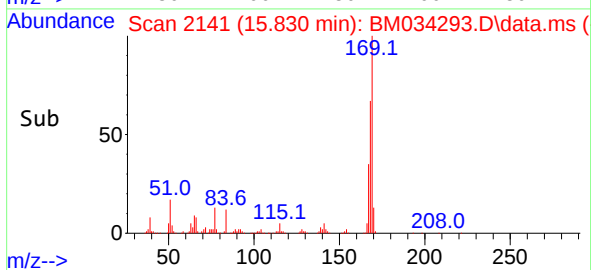
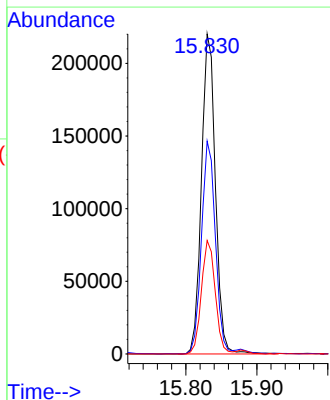
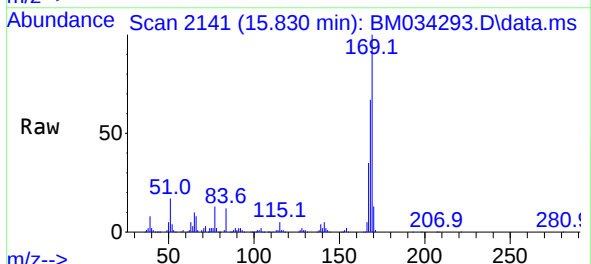
Manual Integrations  
APPROVED

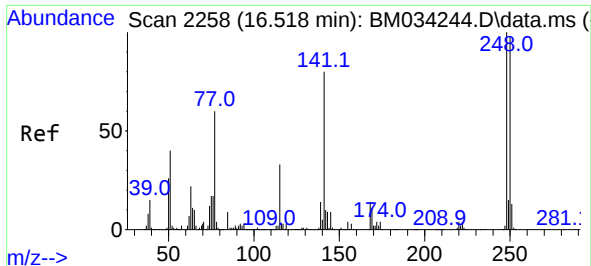
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#66  
n-Nitrosodiphenylamine  
Concen: 9.030 ng  
RT: 15.830 min Scan# 2141  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

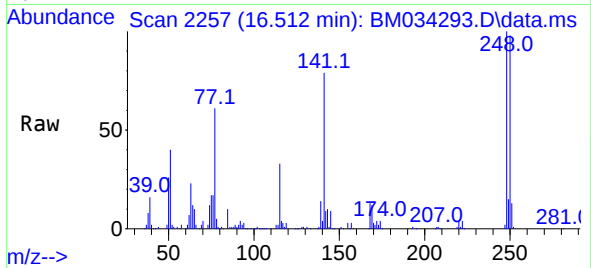
Tgt Ion:169 Resp: 301924  
Ion Ratio Lower Upper  
169 100  
168 66.5 53.9 80.9  
167 35.5 29.0 43.4





#67  
4-Bromophenyl-phenylether  
Concen: 8.874 ng  
RT: 16.512 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

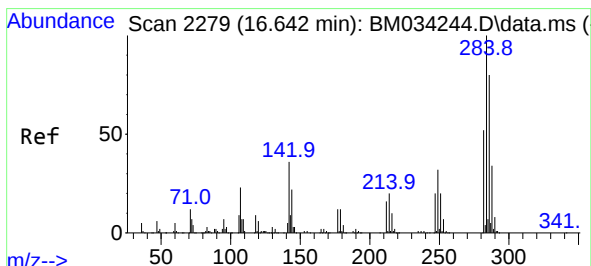
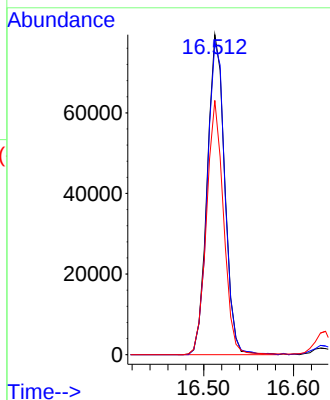
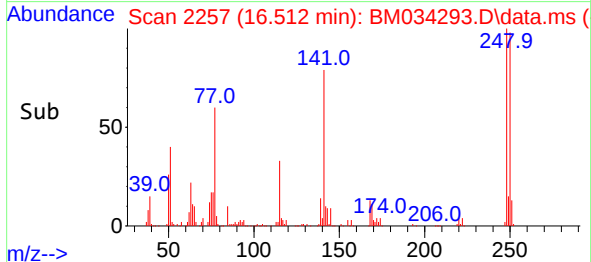
Instrument :  
BNA\_M  
ClientSampleId :  
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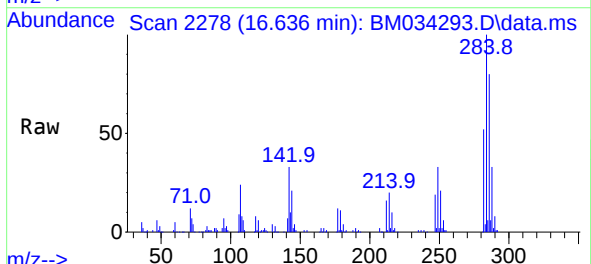
Tgt Ion:248 Resp: 10736  
Ion Ratio Lower Upper  
248 100  
250 97.6 78.0 117.0  
141 79.5 63.8 95.6

Manual Integrations  
APPROVED

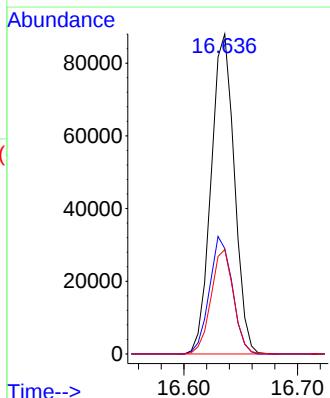
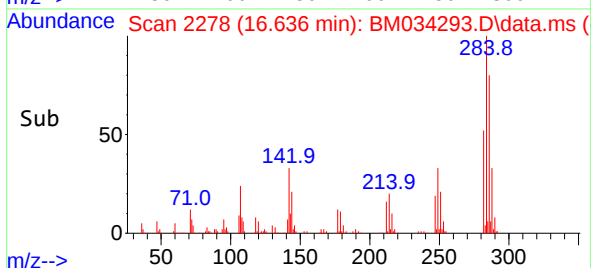
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

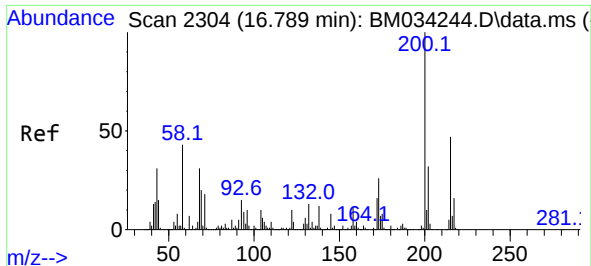


#68  
Hexachlorobenzene  
Concen: 9.283 ng  
RT: 16.636 min Scan# 2278  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



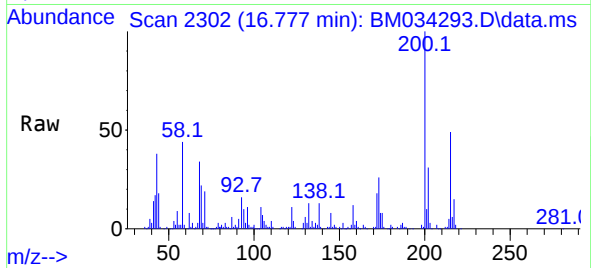
Tgt Ion:284 Resp: 125269  
Ion Ratio Lower Upper  
284 100  
142 33.0 28.9 43.3  
249 32.6 25.4 38.0





#69  
Atrazine  
Concen: 10.102 ng  
RT: 16.777 min Scan# 21133  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

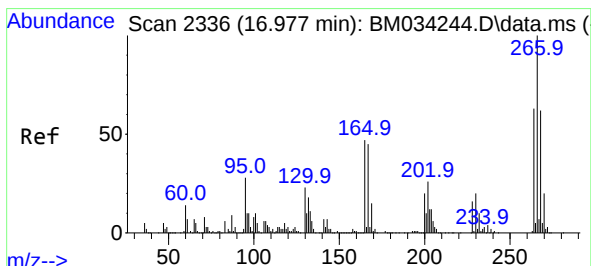
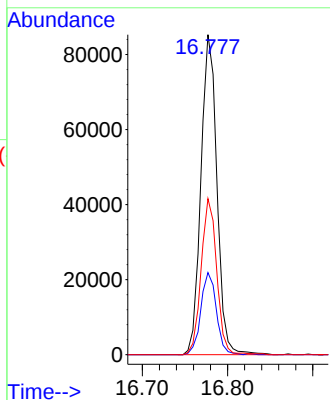
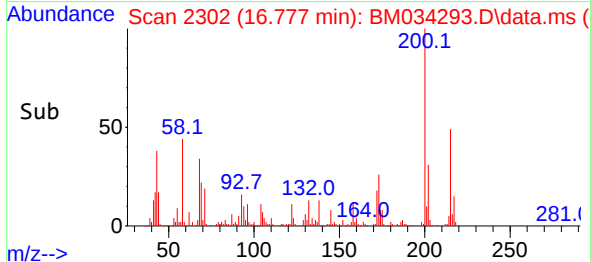
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



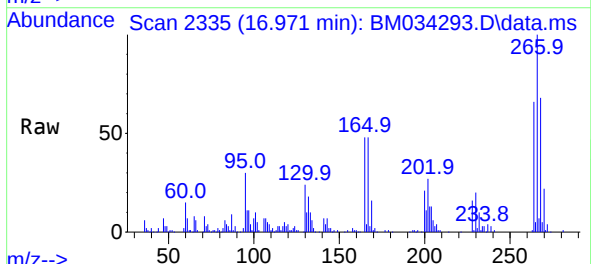
Tgt Ion:200 Resp: 11133  
Ion Ratio Lower Upper  
200 100  
173 25.7 6.1 46.1  
215 48.7 27.4 67.4

Manual Integrations  
APPROVED

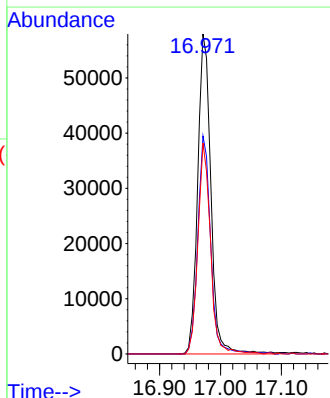
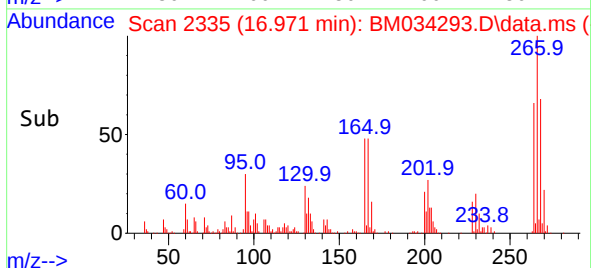
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

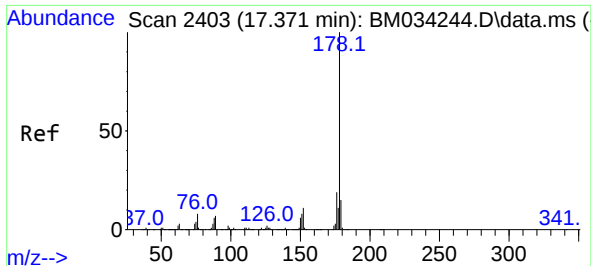


#70  
Pentachlorophenol  
Concen: 10.124 ng  
RT: 16.971 min Scan# 2335  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



Tgt Ion:266 Resp: 87365  
Ion Ratio Lower Upper  
266 100  
268 68.1 49.8 74.8  
264 65.9 50.3 75.5





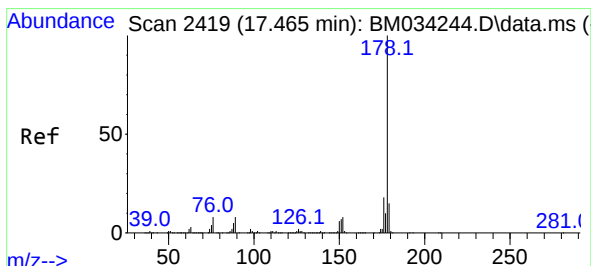
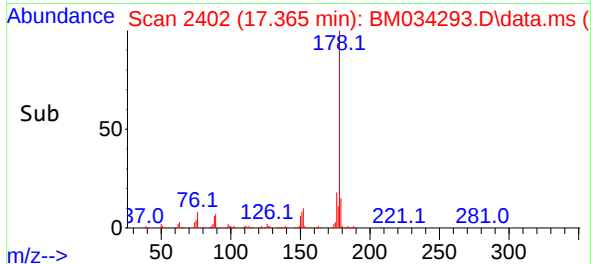
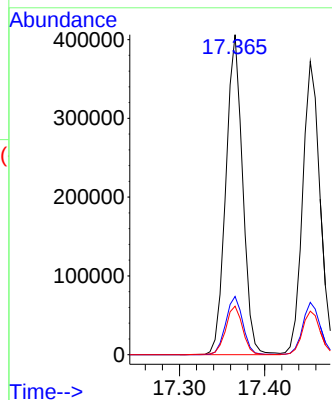
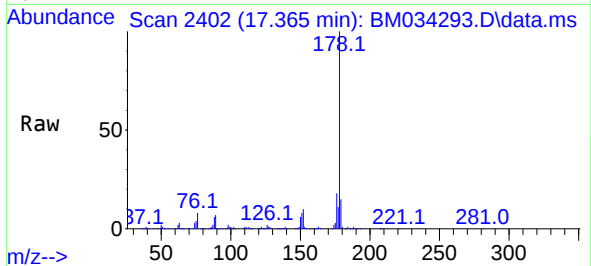
#71  
Phenanthrene  
Concen: 9.424 ng  
RT: 17.365 min Scan# 2402  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Tgt Ion:178 Resp: 55545  
Ion Ratio Lower Upper  
178 100  
176 18.2 15.1 22.7  
179 15.1 12.2 18.4

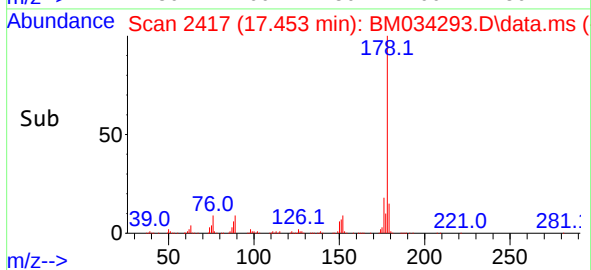
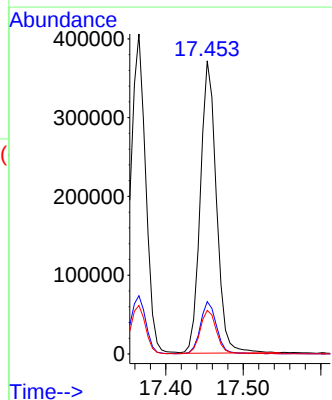
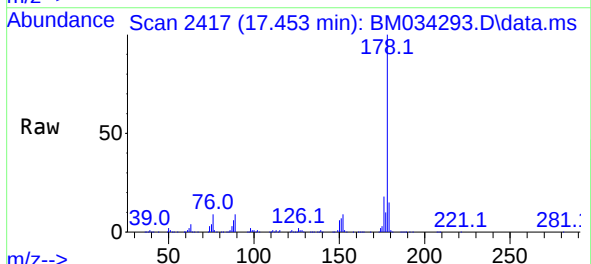
Manual Integrations  
APPROVED

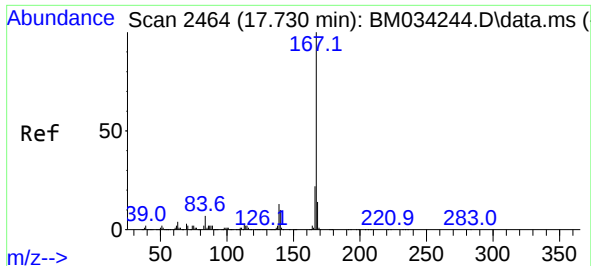
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#72  
Anthracene  
Concen: 9.316 ng  
RT: 17.453 min Scan# 2417  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

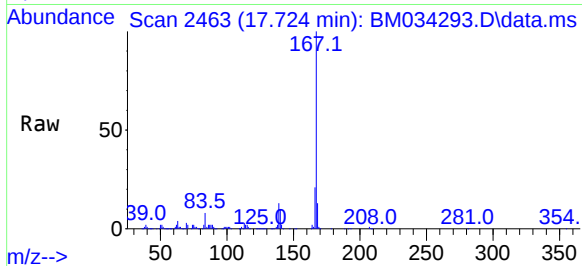
Tgt Ion:178 Resp: 534443  
Ion Ratio Lower Upper  
178 100  
176 17.9 14.6 22.0  
179 14.8 12.2 18.2





#73  
Carbazole  
Concen: 8.741 ng  
RT: 17.724 min Scan# 2463  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

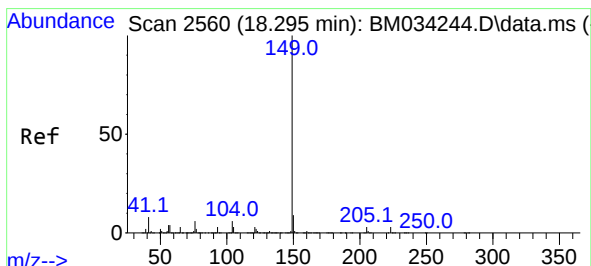
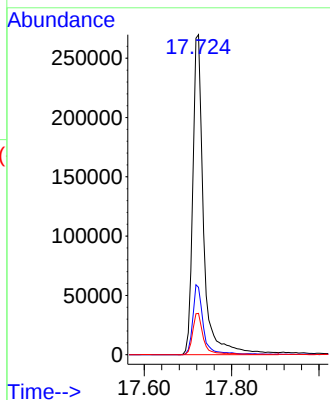
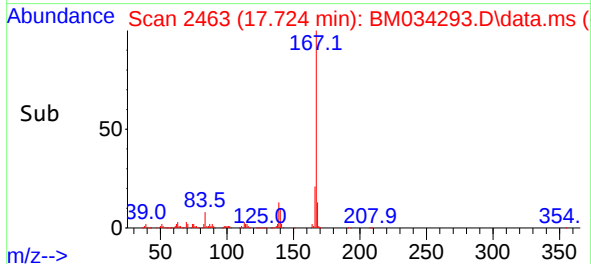
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



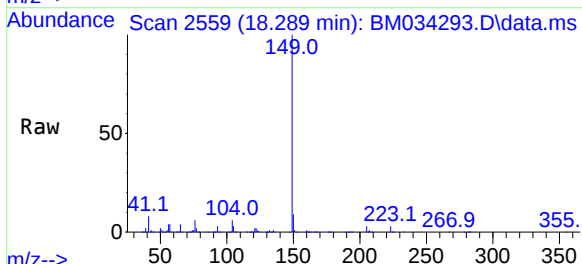
Tgt Ion:167 Resp: 46762  
Ion Ratio Lower Upper  
167 100  
166 21.0 17.4 26.2  
139 12.9 10.4 15.6

Manual Integrations  
APPROVED

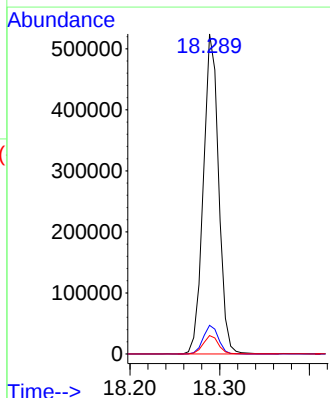
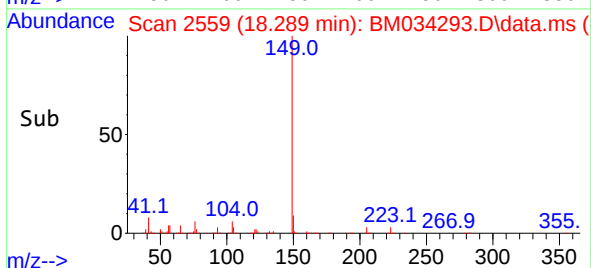
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

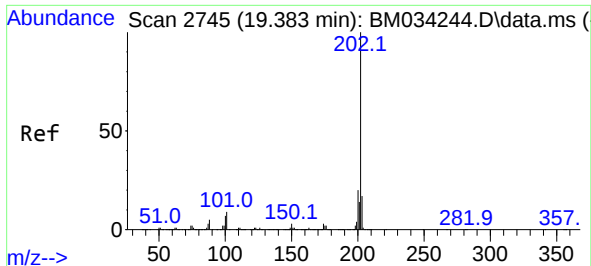


#74  
Di-n-butylphthalate  
Concen: 9.319 ng  
RT: 18.289 min Scan# 2559  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



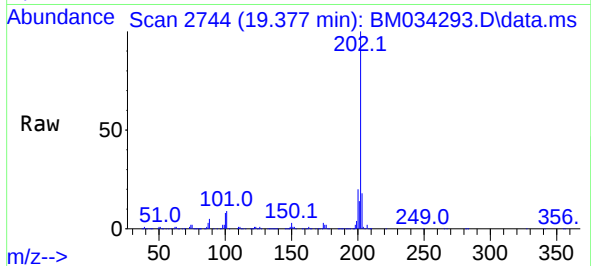
Tgt Ion:149 Resp: 619809  
Ion Ratio Lower Upper  
149 100  
150 9.0 7.6 11.4  
104 5.7 4.7 7.1





#75  
Fluoranthene  
Concen: 9.732 ng  
RT: 19.377 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

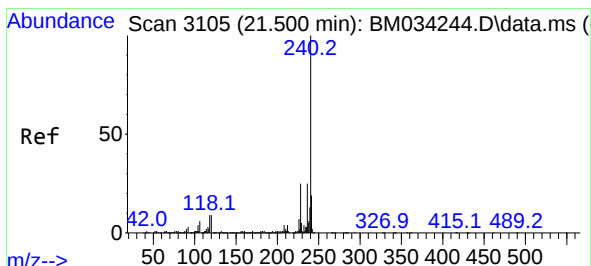
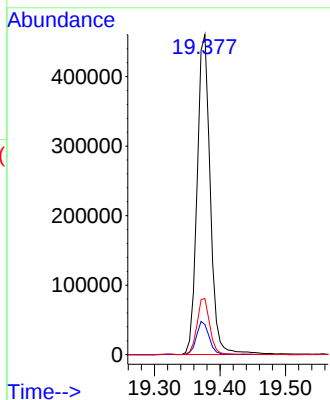
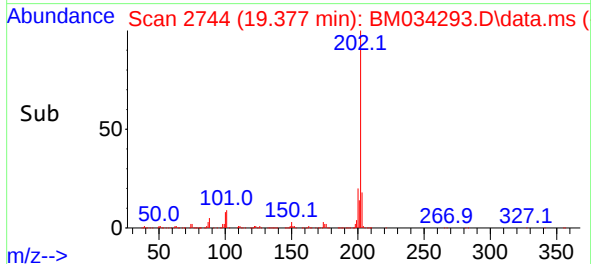
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



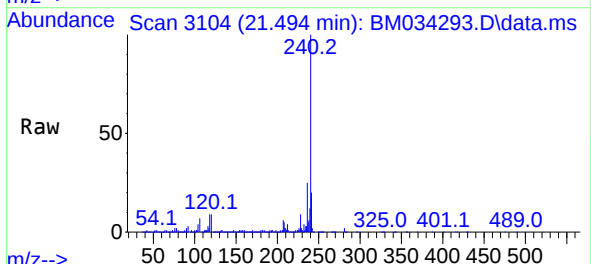
Tgt Ion:202 Resp: 642970  
Ion Ratio Lower Upper  
202 100  
101 9.4 0.0 29.4  
203 17.5 0.0 37.1

Manual Integrations  
APPROVED

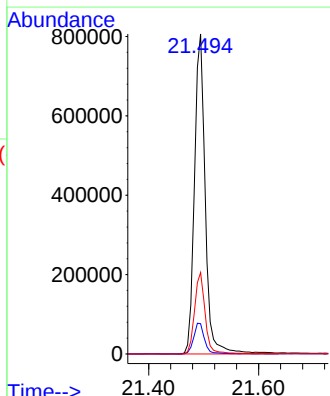
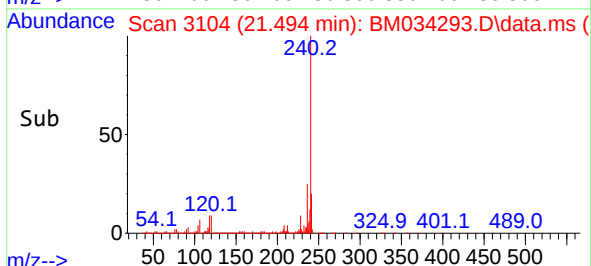
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

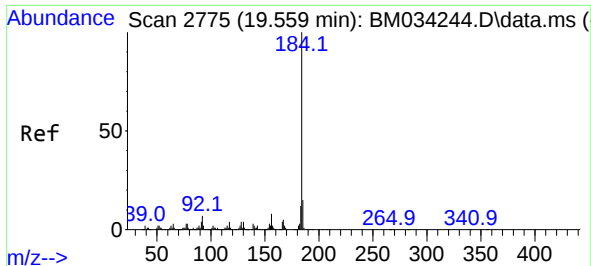


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.494 min Scan# 3104  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



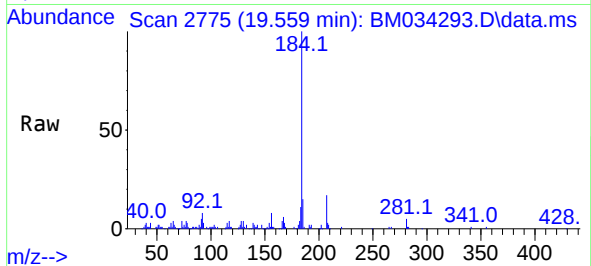
Tgt Ion:240 Resp: 1102467  
Ion Ratio Lower Upper  
240 100  
120 9.5 7.3 10.9  
236 25.5 20.2 30.2





#77  
Benzidine  
Concen: 10.376 ng m  
RT: 19.559 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

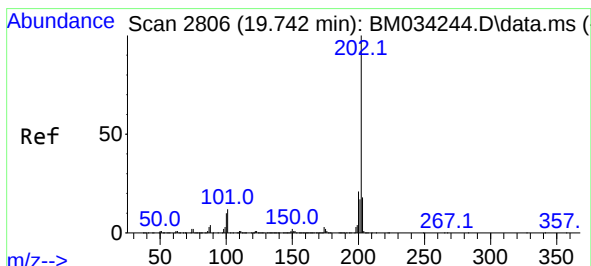
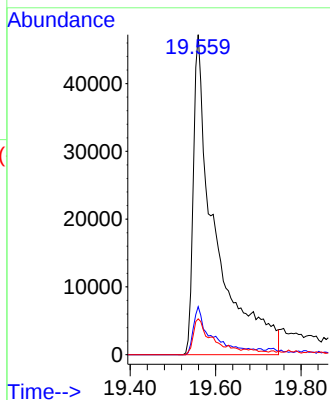
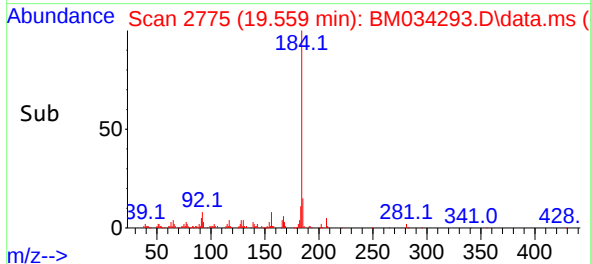
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



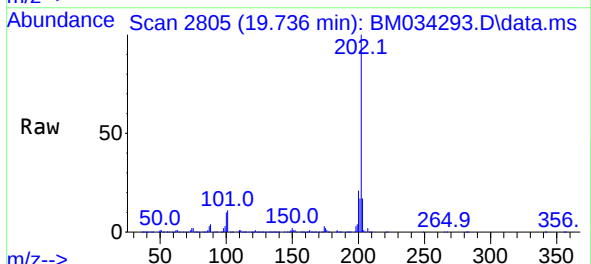
Tgt Ion:184 Resp: 16764  
Ion Ratio Lower Upper  
184 100  
185 15.0 11.7 17.5  
183 11.2 9.8 14.6

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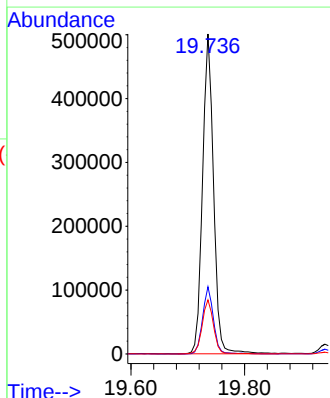
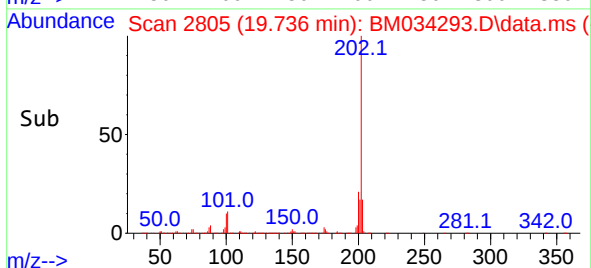
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022

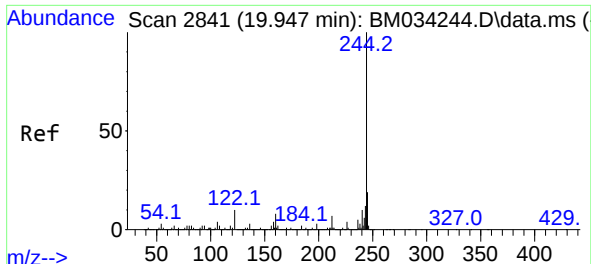


#78  
Pyrene  
Concen: 8.655 ng  
RT: 19.736 min Scan# 2805  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16



Tgt Ion:202 Resp: 672310  
Ion Ratio Lower Upper  
202 100  
200 21.0 16.6 24.8  
203 16.9 14.1 21.1





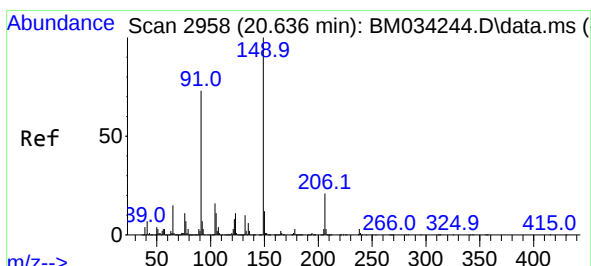
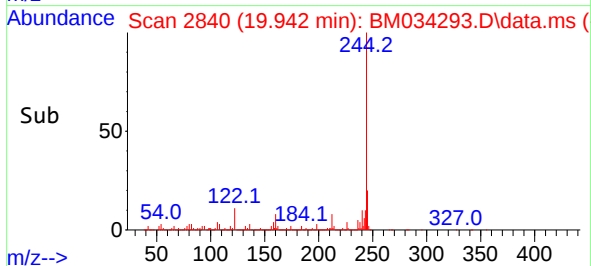
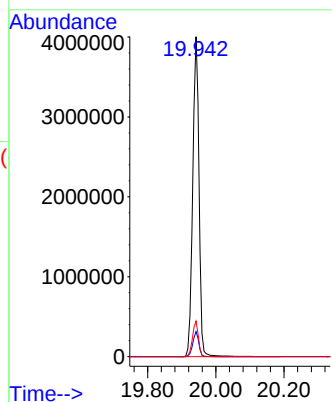
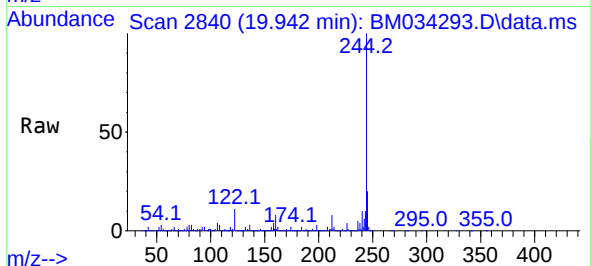
#79  
 Terphenyl-d14  
 Concen: 80.084 ng  
 RT: 19.942 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BM034293.D  
 Acq: 21 Mar 2022 18:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2021

Tgt Ion:244 Resp: 508110  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 5.9 8.9  
 122 11.1 7.8 11.8

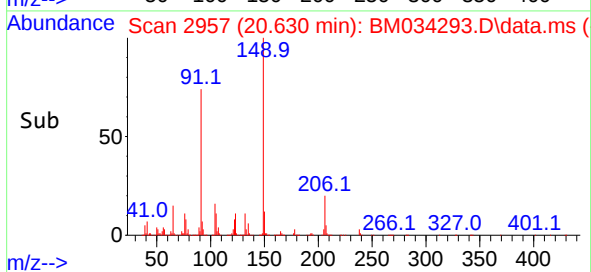
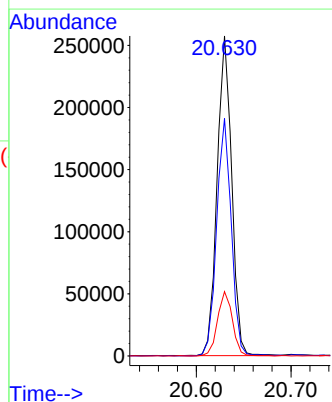
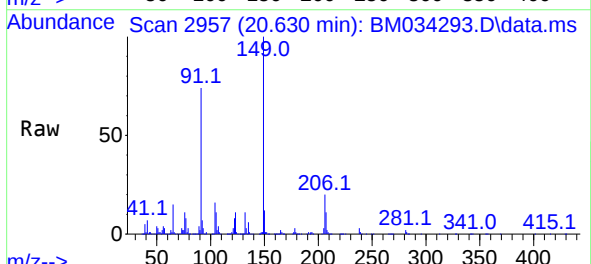
Manual Integrations  
 APPROVED

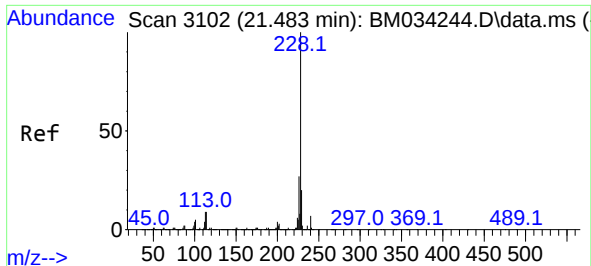
Reviewed By :Christian Giraldo 03/22/2022  
 Supervised By :Jagrut Upadhyay 03/22/2022



#80  
 Butylbenzylphthalate  
 Concen: 8.360 ng  
 RT: 20.630 min Scan# 2957  
 Delta R.T. -0.006 min  
 Lab File: BM034293.D  
 Acq: 21 Mar 2022 18:16

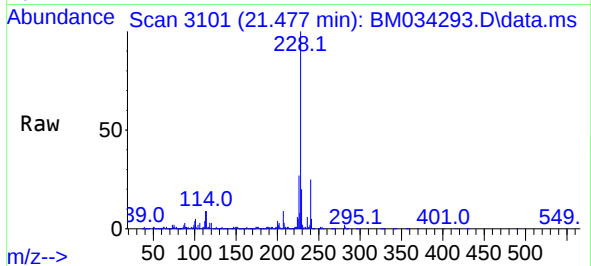
Tgt Ion:149 Resp: 274631  
 Ion Ratio Lower Upper  
 149 100  
 91 74.2 58.5 87.7  
 206 20.1 16.9 25.3





#81  
Benzo(a)anthracene  
Concen: 9.429 ng  
RT: 21.477 min Scan# 3102  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

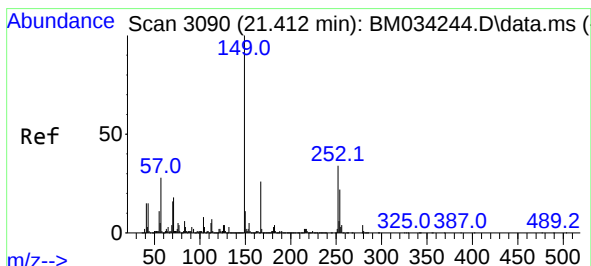
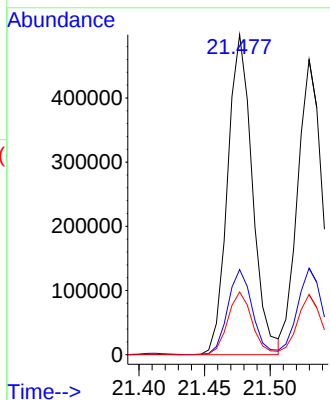
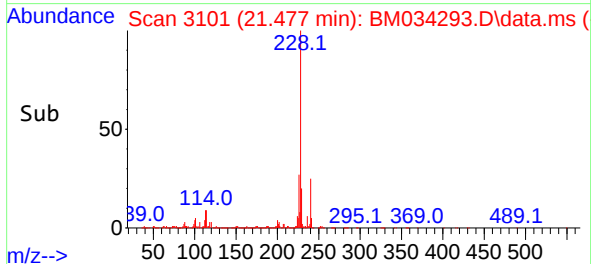
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:228 Resp: 65609  
Ion Ratio Lower Upper  
228 100  
226 26.6 21.6 32.4  
229 19.6 15.8 23.6

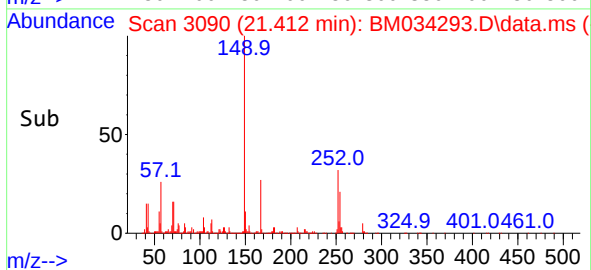
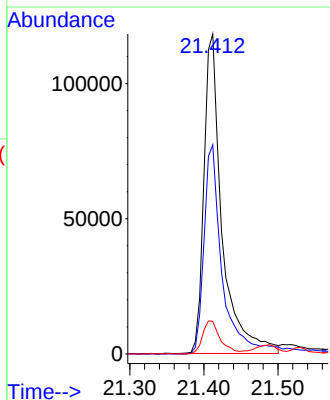
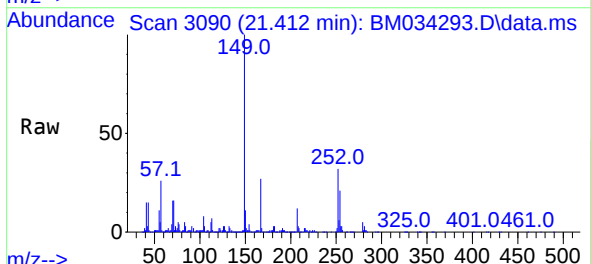
Manual Integrations  
APPROVED

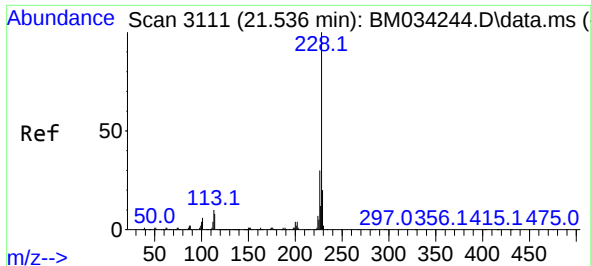
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#82  
3,3'-Dichlorobenzidine  
Concen: 8.659 ng  
RT: 21.412 min Scan# 3090  
Delta R.T. -0.000 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

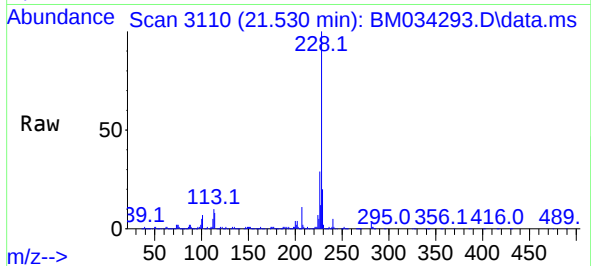
Tgt Ion:252 Resp: 201238  
Ion Ratio Lower Upper  
252 100  
254 65.4 50.9 76.3  
126 10.2 8.6 12.8





#83  
Chrysene  
Concen: 8.986 ng  
RT: 21.530 min Scan# 3111  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

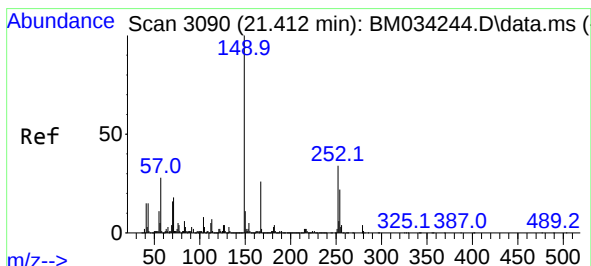
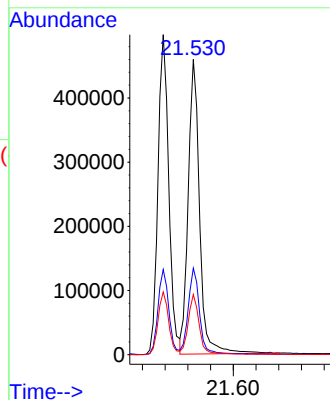
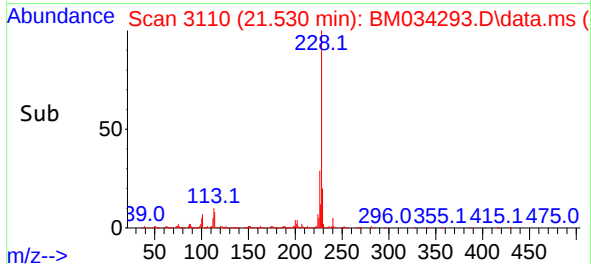
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:228 Resp: 63850  
Ion Ratio Lower Upper  
228 100  
226 29.3 23.8 35.6  
229 20.4 15.6 23.4

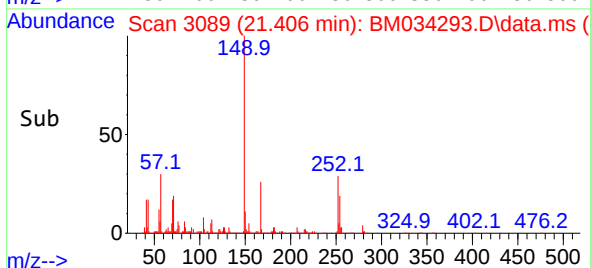
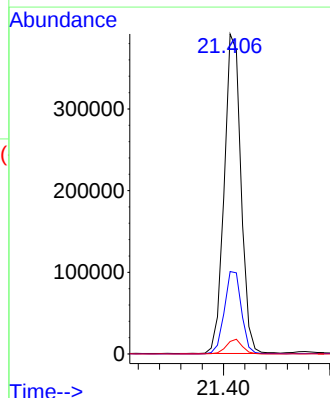
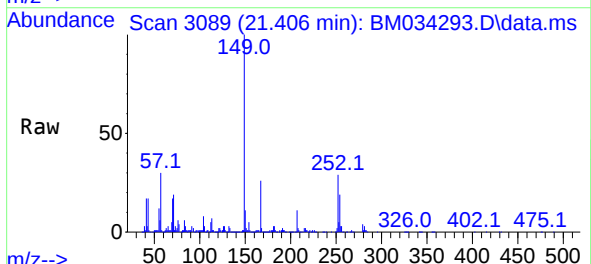
Manual Integrations  
APPROVED

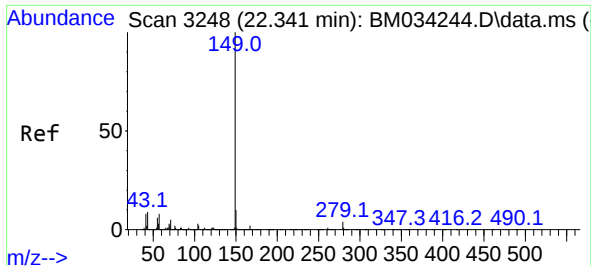
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 8.773 ng  
RT: 21.406 min Scan# 3089  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

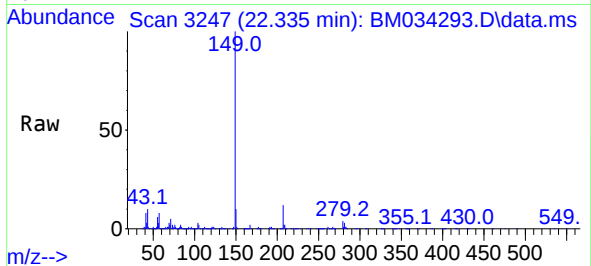
Tgt Ion:149 Resp: 425583  
Ion Ratio Lower Upper  
149 100  
167 25.8 21.2 31.8  
279 3.9 3.4 5.2





#85  
Di-n-octyl phthalate  
Concen: 9.026 ng  
RT: 22.335 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

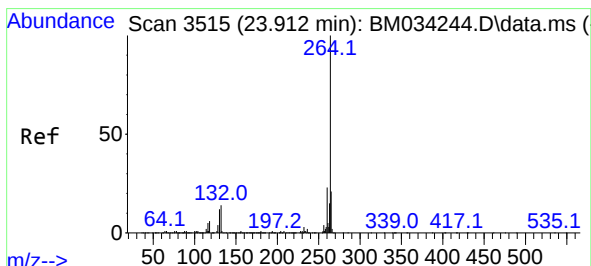
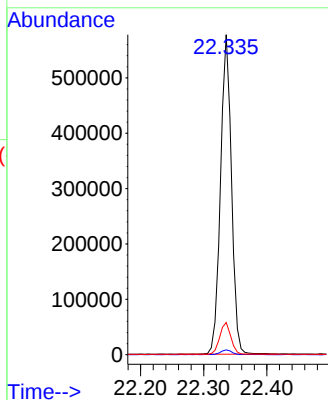
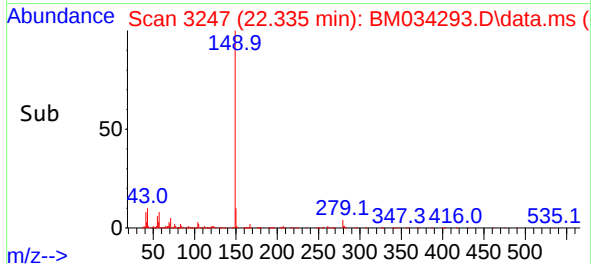
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021



Tgt Ion:149 Resp: 69504  
Ion Ratio Lower Upper  
149 100  
167 1.6 1.2 1.8  
43 10.3 7.8 11.8

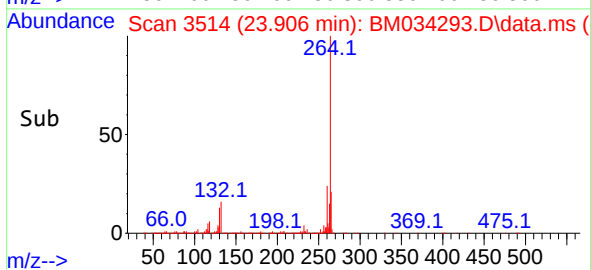
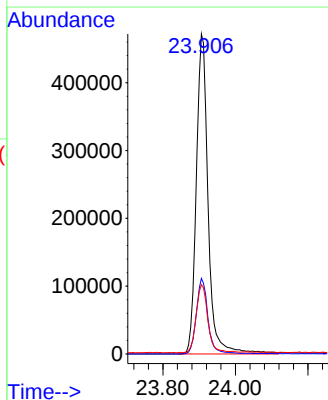
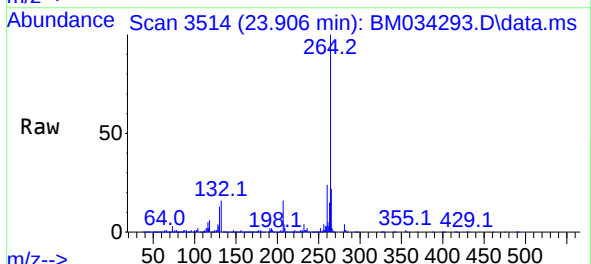
Manual Integrations  
APPROVED

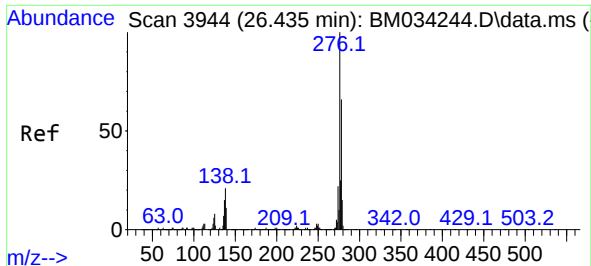
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.906 min Scan# 3514  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Tgt Ion:264 Resp: 1067867  
Ion Ratio Lower Upper  
264 100  
260 23.6 18.6 28.0  
265 21.6 17.6 26.4





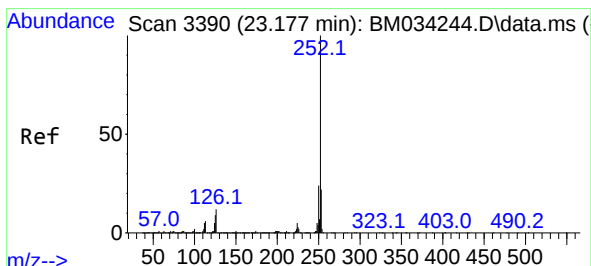
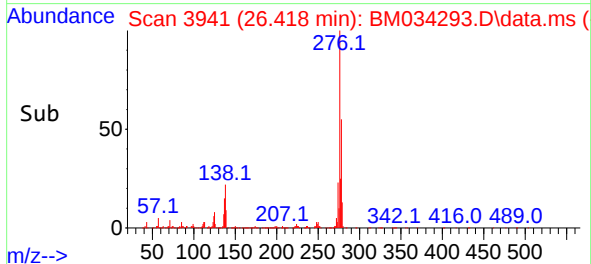
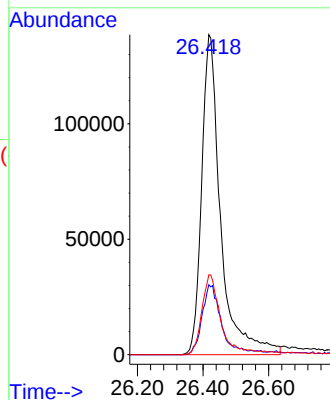
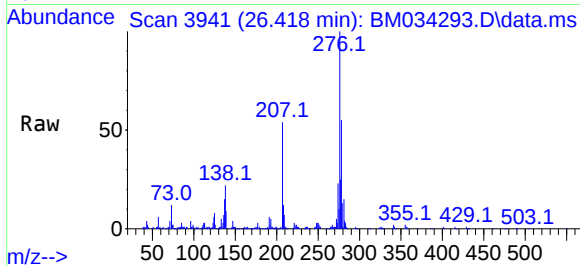
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 8.122 ng  
RT: 26.418 min Scan# 3941  
Delta R.T. -0.018 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Tgt Ion:276 Resp: 55794  
Ion Ratio Lower Upper  
276 100  
138 21.9 16.6 25.0  
277 25.2 19.8 29.6

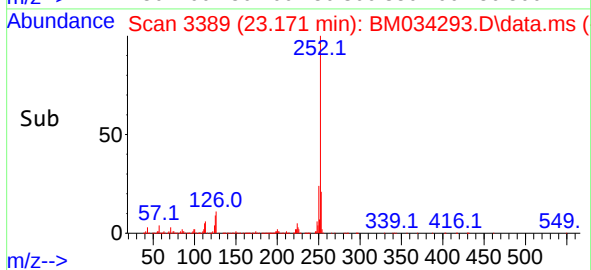
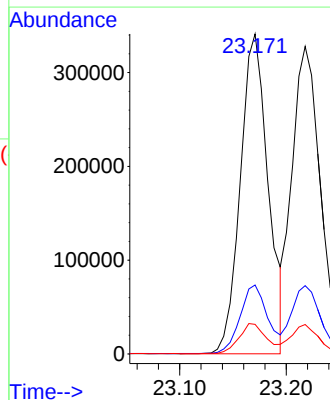
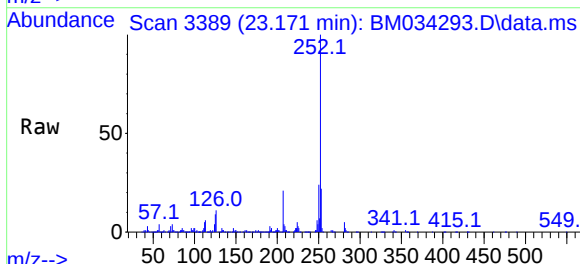
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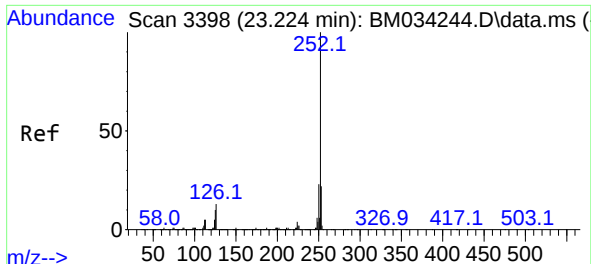
Reviewed By :Christian Giraldo 03/22/2022  
Supervised By :Jagrut Upadhyay 03/22/2022



#88  
Benzo(b)fluoranthene  
Concen: 9.706 ng  
RT: 23.171 min Scan# 3389  
Delta R.T. -0.006 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Tgt Ion:252 Resp: 619798  
Ion Ratio Lower Upper  
252 100  
253 21.5 17.8 26.8  
125 9.3 7.2 10.8





#89

Benzo(k)fluoranthene

Concen: 9.629 ng

RT: 23.218 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM034293.D

Acq: 21 Mar 2022 18:16

Instrument :

BNA\_M

ClientSampleId :

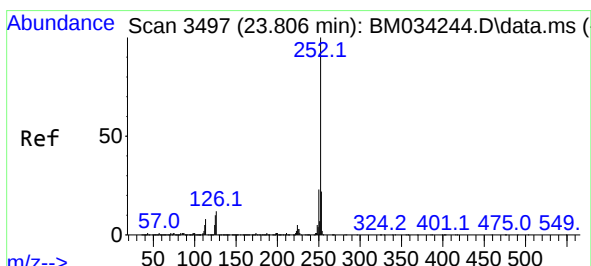
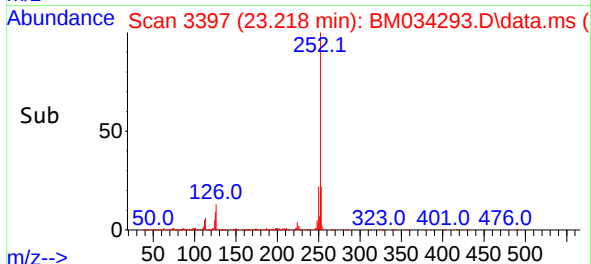
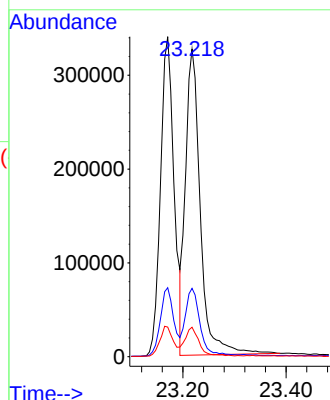
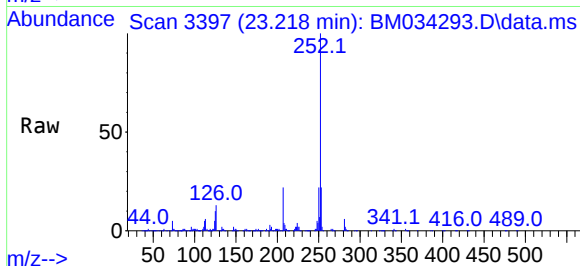
LOQ-SOIL-02-QT4-2021

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 65134 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.2  | 17.6  | 26.4  |
| 125       | 9.6   | 7.5   | 11.3  |

Manual Integrations

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



#90

Benzo(a)pyrene

Concen: 10.438 ng

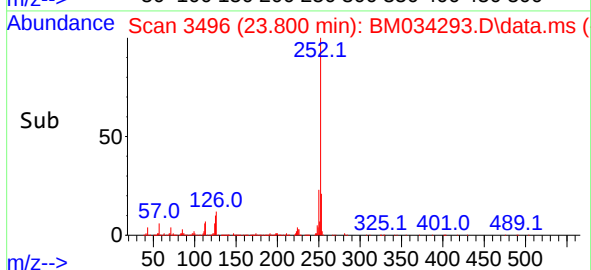
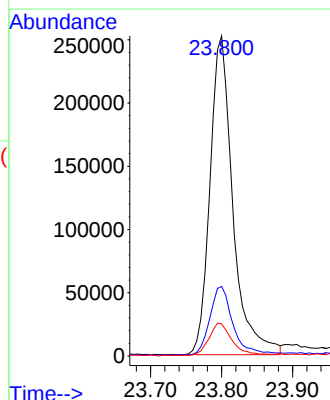
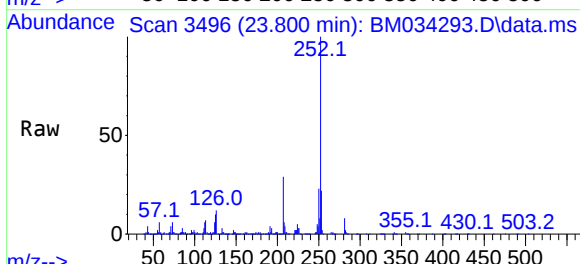
RT: 23.800 min Scan# 3496

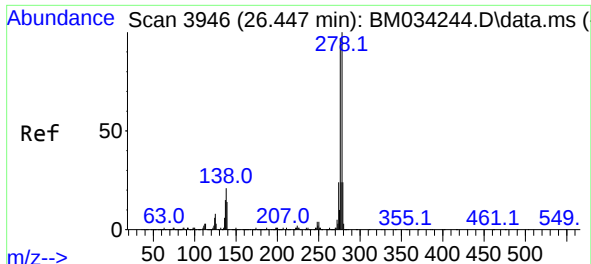
Delta R.T. -0.006 min

Lab File: BM034293.D

Acq: 21 Mar 2022 18:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 565044 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.7  | 17.5  | 26.3   |
| 125       | 10.0  | 7.8   | 11.6   |





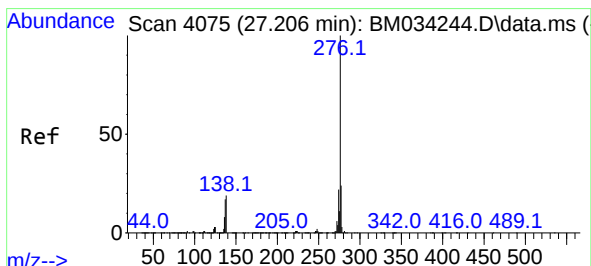
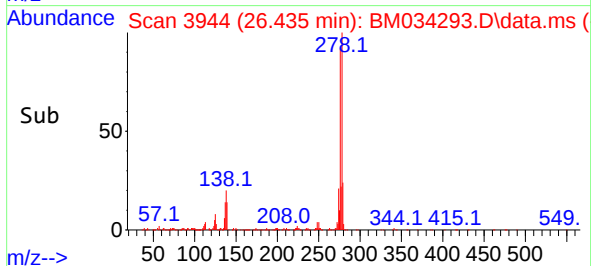
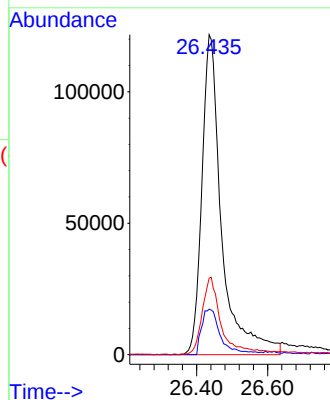
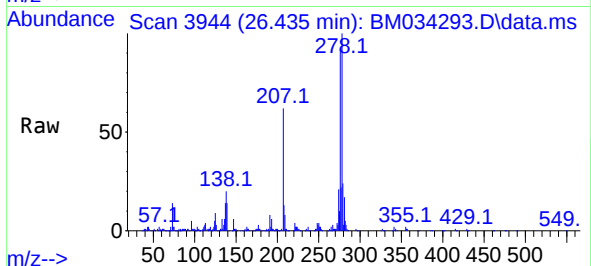
#91  
Dibenzo(a,h)anthracene  
Concen: 8.460 ng  
RT: 26.435 min Scan# 3946  
Delta R.T. -0.012 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT4-2021

Tgt Ion:278 Resp: 47120  
Ion Ratio Lower Upper  
278 100  
139 14.2 11.2 16.8  
279 23.9 19.2 28.8

Manual Integrations  
APPROVED

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



#92  
Benzo(g,h,i)perylene  
Concen: 8.800 ng  
RT: 27.188 min Scan# 4072  
Delta R.T. -0.018 min  
Lab File: BM034293.D  
Acq: 21 Mar 2022 18:16

Tgt Ion:276 Resp: 507322  
Ion Ratio Lower Upper  
276 100  
277 22.9 19.0 28.4  
138 19.3 15.6 23.4

