

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031623\  
 Data File : VX034538.D  
 Acq On : 16 Mar 2023 12:16  
 Operator : JC/MD  
 Sample : PB151426TB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB151426TB

Quant Time: Mar 17 06:23:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 13 10:29:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 264067   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 456208   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 457560   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 193173   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 184499   | 48.026    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 96.060%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 141705   | 47.045    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 94.100%  |
| 50) Toluene-d8                | 8.647  | 98    | 557953   | 49.621    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 99.240%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 253947   | 55.913    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 111.820% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.307  | 50    | 477      | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 17965    | 22.456    | ug/l # | 79       |
| 16) Acetone                   | 2.373  | 43    | 79139    | 43.733    | ug/l   | 99       |
| 18) Methyl Acetate            | 2.703  | 43    | 3796     | 0.642     | ug/l   | 95       |
| 20) Methylene Chloride        | 2.788  | 84    | 10889    | 3.100     | ug/l   | 97       |
| 25) 2-Butanone                | 4.562  | 43    | 8693     | 3.357     | ug/l   | 99       |
| 29) Tetrahydrofuran           | 5.019  | 42    | 1160     | 0.726     | ug/l # | 76       |
| 31) Cyclohexane               | 5.544  | 56    | 6400     | 1.188     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 22679    | 4.902     | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.708  | 43    | 68685    | 13.590    | ug/l   | 99       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 26625    | 5.785     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 283894   | 33.157    | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.793  | 41    | 234752   | 57.007    | ug/l # | 47       |
| 49) 1,4-Dioxane               | 7.659  | 88    | 25       | 0.289     | ug/l # | 23       |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 222909   | 44.878    | ug/l # | 50       |
| 53) t-1,3-Dichloropropene     | 8.951  | 75    | 1808     | 0.345     | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 94720    | 16.713    | ug/l # | 58       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 13074    | 2.212     | ug/l # | 42       |
| 58) 2-Chloroethyl Vinyl ether | 8.250  | 63    | 2382     | 0.847     | ug/l   | 97       |
| 59) 2-Hexanone                | 9.482  | 43    | 193705   | 50.450    | ug/l # | 51       |
| 74) N-amyl acetate            | 10.640 | 43    | 79491    | 11.116    | ug/l # | 53       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 139293   | 31.404    | ug/l # | 35       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 139293   | 84.958    | ug/l # | 8        |

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

Quant Time: Mar 17 06:23:00 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 13 10:29:32 2023  
Response via : Initial Calibration

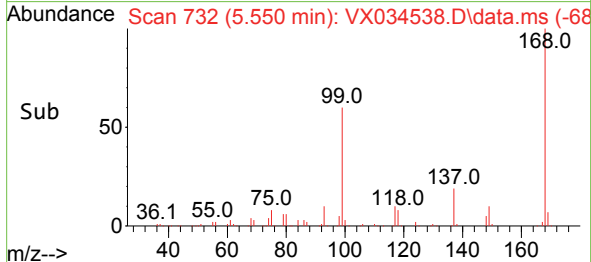
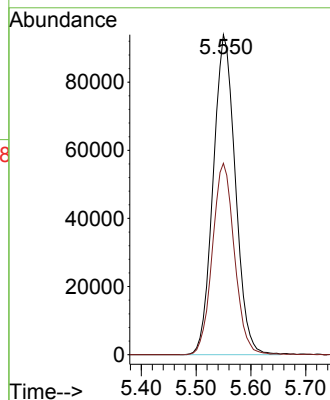
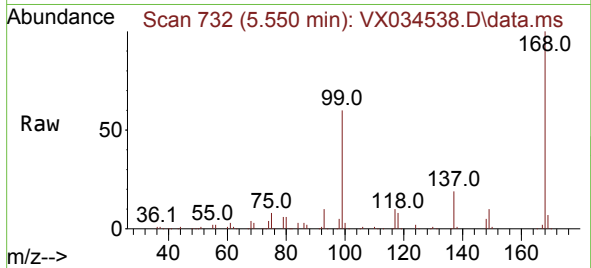




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

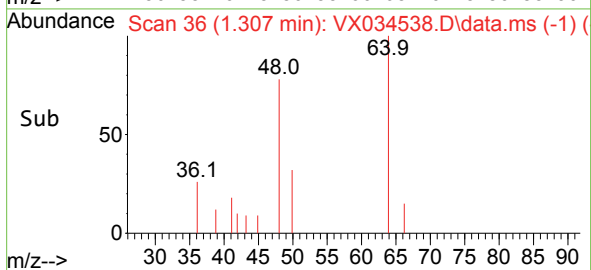
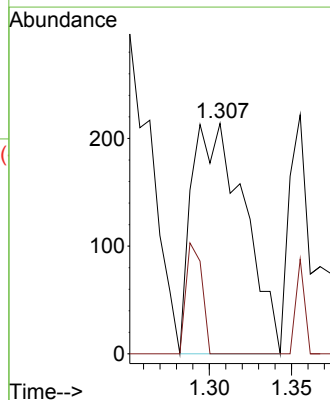
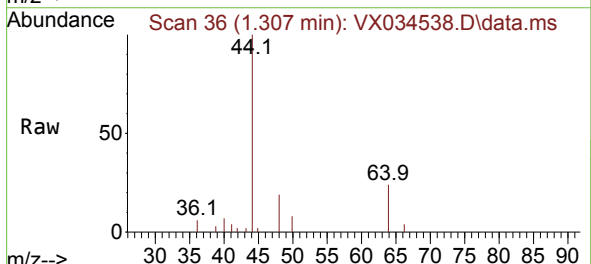
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

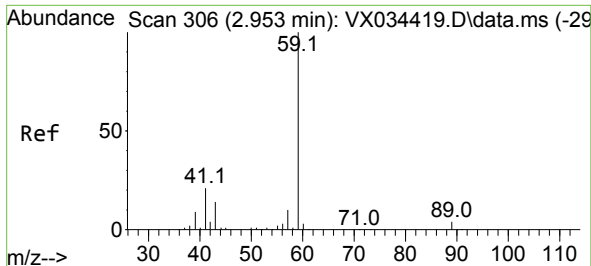
Tgt Ion:168 Resp: 264067  
Ion Ratio Lower Upper  
168 100  
99 59.8 45.7 68.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.307 min Scan# 36  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 50 Resp: 477  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.9 38.9#





#11

Tert butyl alcohol

Concen: 22.456 ug/l

RT: 2.940 min Scan# 306

Delta R.T. -0.012 min

Lab File: VX034538.D

Acq: 16 Mar 2023 12:16

Instrument :

MSVOA\_X

ClientSampleId :

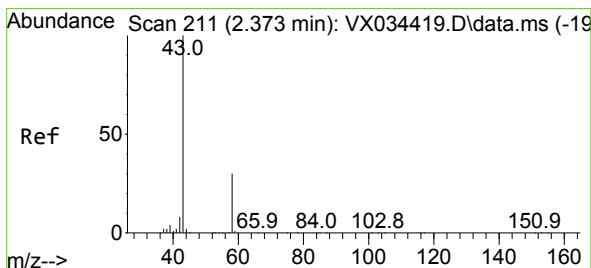
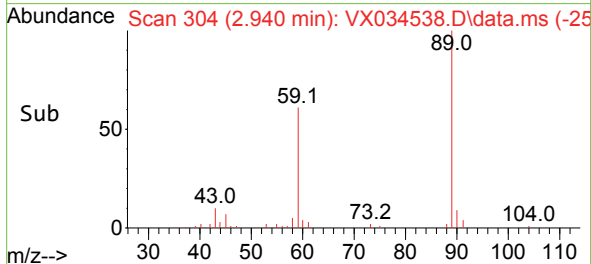
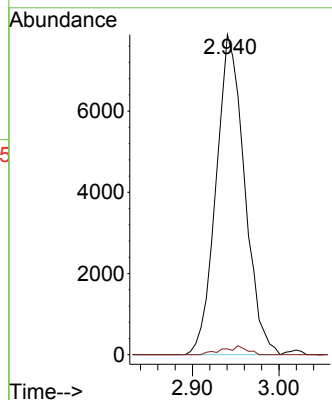
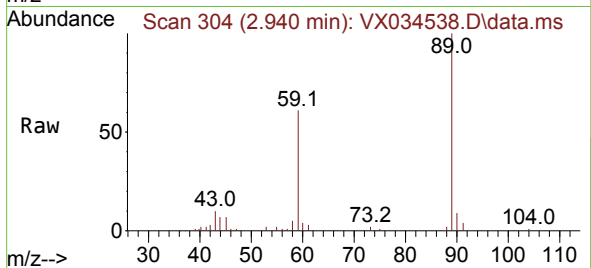
PB151426TB

Tgt Ion: 59 Resp: 17965

Ion Ratio Lower Upper

59 100

57 2.3 8.1 12.1#



#16

Acetone

Concen: 43.733 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX034538.D

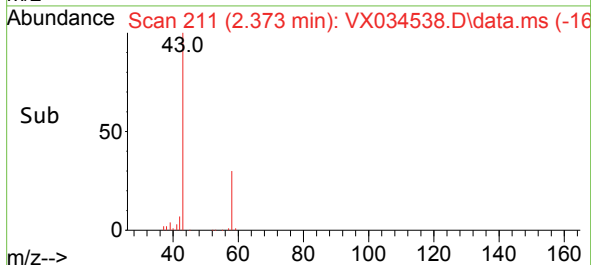
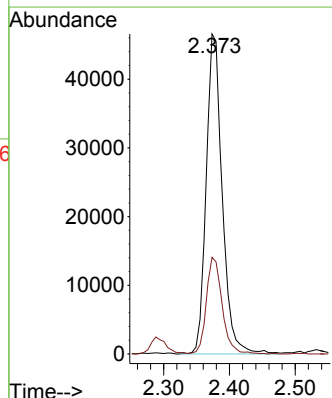
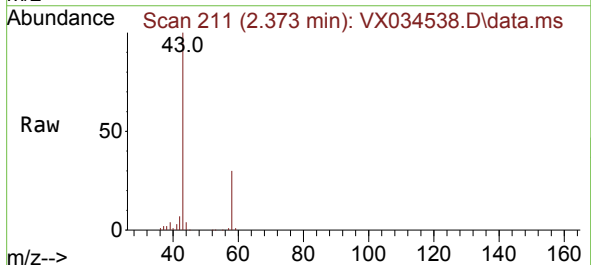
Acq: 16 Mar 2023 12:16

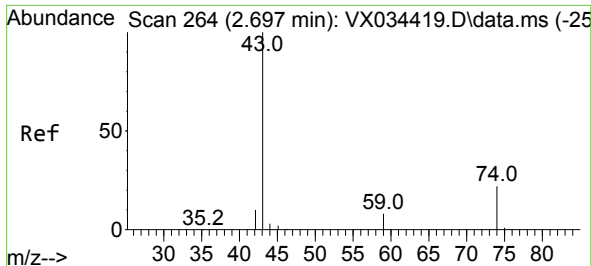
Tgt Ion: 43 Resp: 79139

Ion Ratio Lower Upper

43 100

58 30.2 24.7 37.1

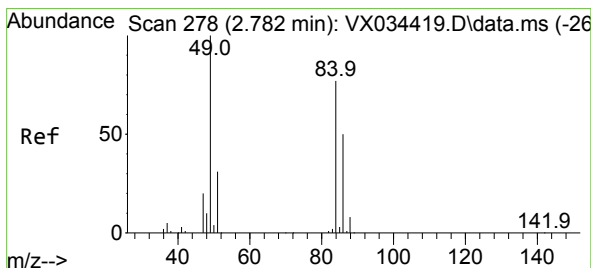
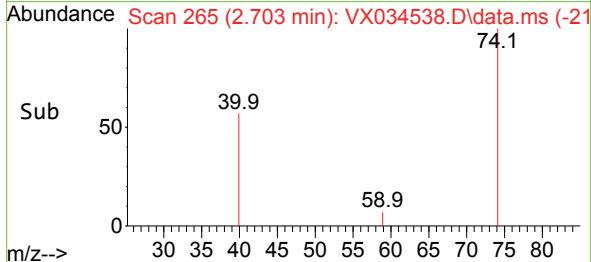
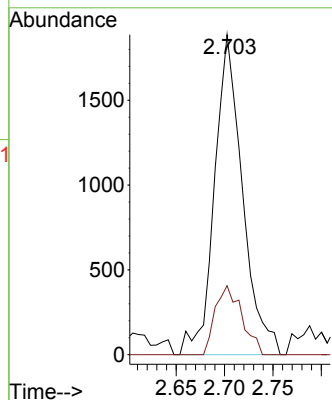
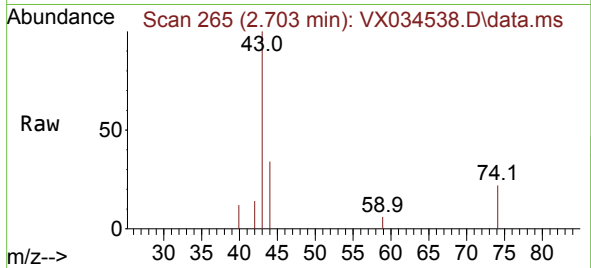




#18  
Methyl Acetate  
Concen: 0.642 ug/l  
RT: 2.703 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

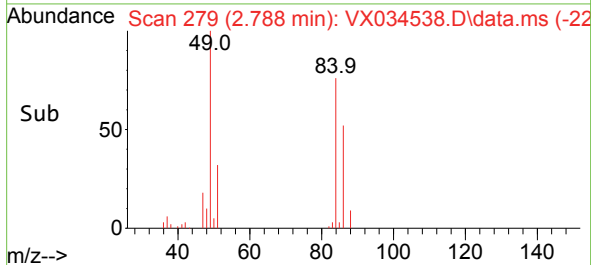
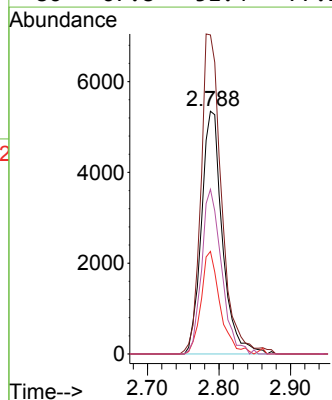
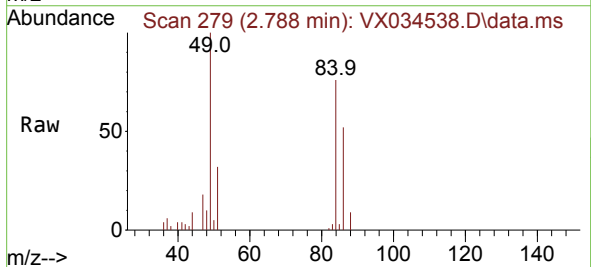
Instrument :  
MSVOA\_X  
ClientSampleId :  
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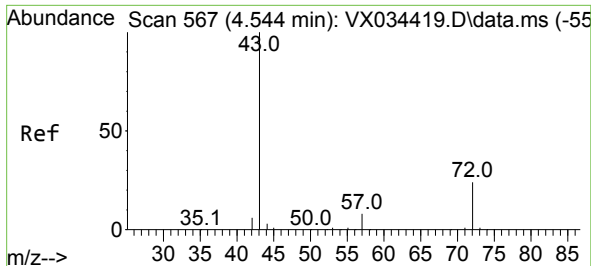
Tgt Ion: 43 Resp: 3796  
Ion Ratio Lower Upper  
43 100  
74 20.4 18.3 27.5



#20  
Methylene Chloride  
Concen: 3.100 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 84 Resp: 10889  
Ion Ratio Lower Upper  
84 100  
49 131.4 103.8 155.8  
51 42.2 31.8 47.8  
86 67.8 51.4 77.2

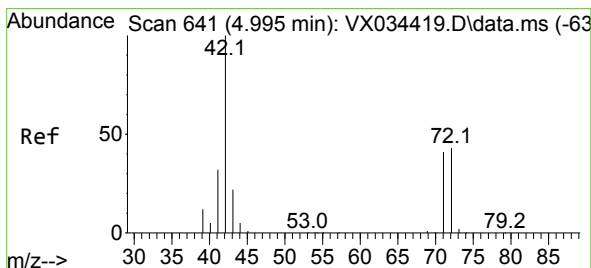
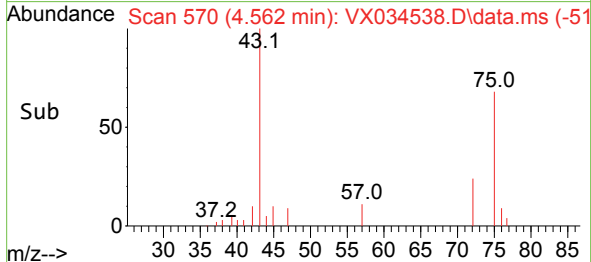
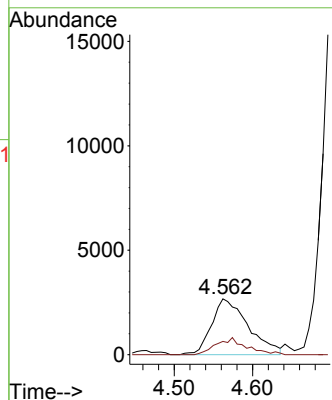
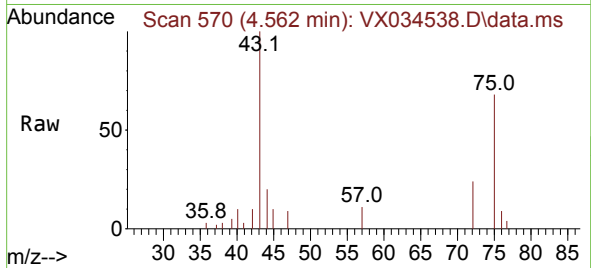




#25  
2-Butanone  
Concen: 3.357 ug/l  
RT: 4.562 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

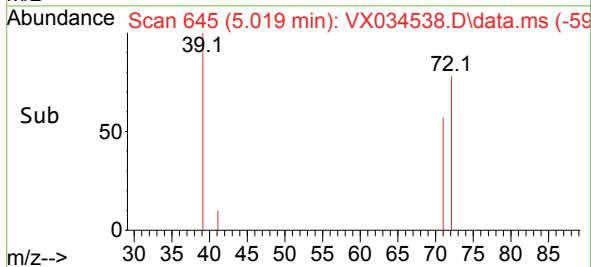
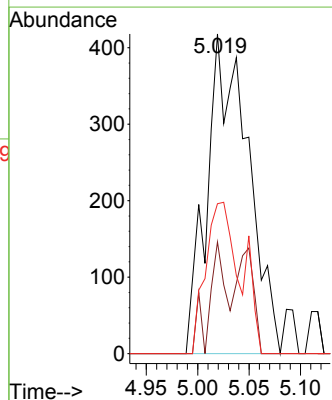
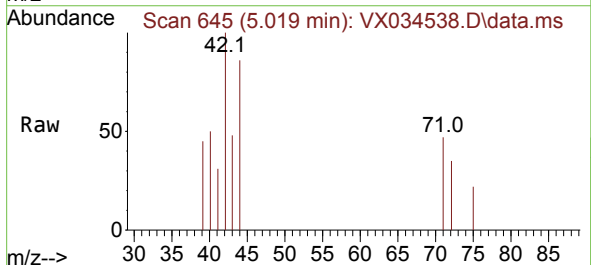
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

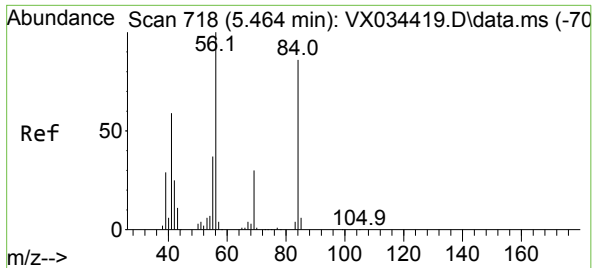
Tgt Ion: 43 Resp: 8693  
Ion Ratio Lower Upper  
43 100  
72 23.6 19.3 28.9



#29  
Tetrahydrofuran  
Concen: 0.726 ug/l  
RT: 5.019 min Scan# 645  
Delta R.T. 0.024 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 42 Resp: 1160  
Ion Ratio Lower Upper  
42 100  
72 14.4 34.5 51.7#  
71 40.5 32.1 48.1

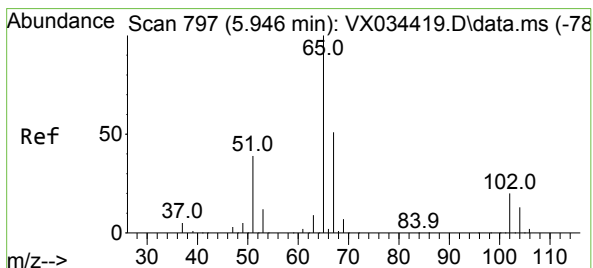
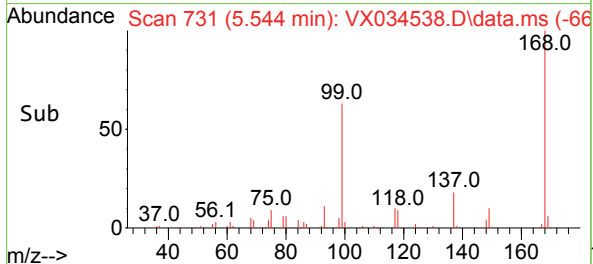
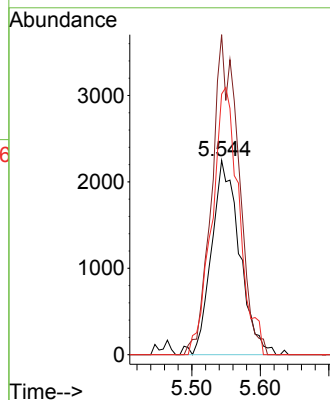
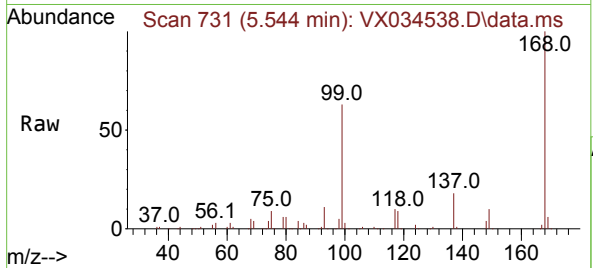




#31  
Cyclohexane  
Concen: 1.188 ug/l  
RT: 5.544 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

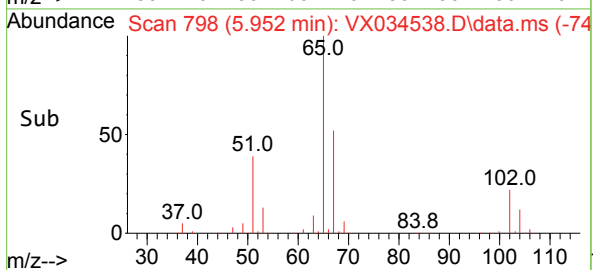
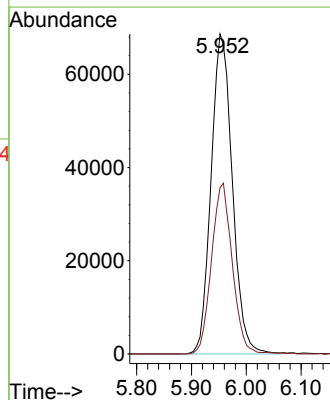
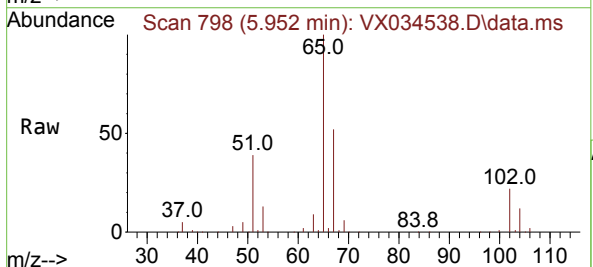
Instrument :  
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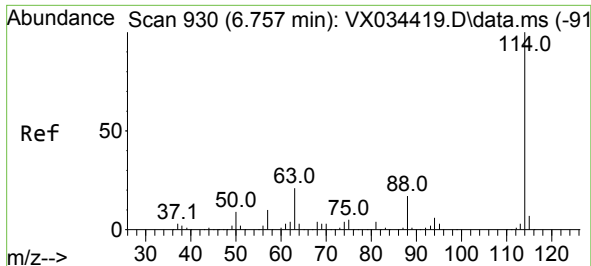
Tgt Ion: 56 Resp: 6400  
Ion Ratio Lower Upper  
56 100  
69 164.8 23.7 35.5#  
84 134.3 68.5 102.7#



#33  
1,2-Dichloroethane-d4  
Concen: 48.026 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 65 Resp: 184499  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 104.0

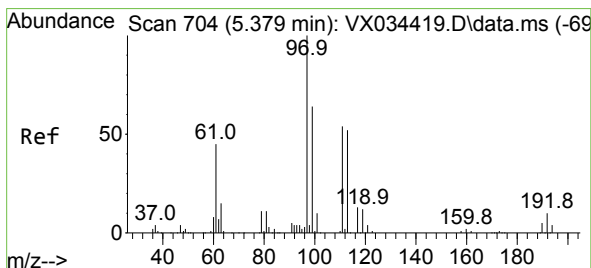
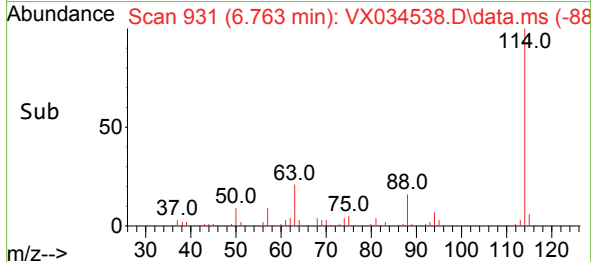
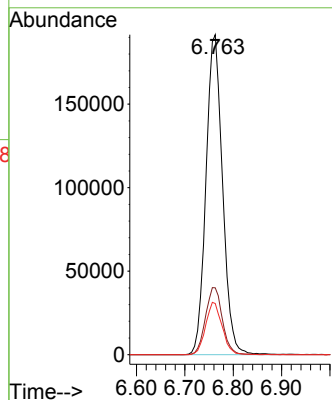
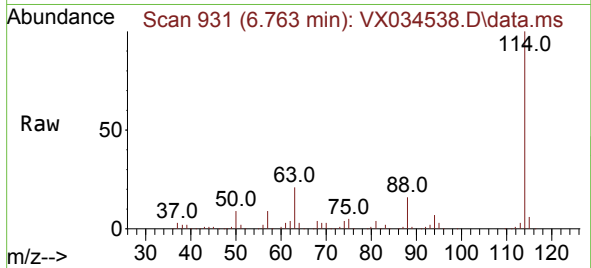




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

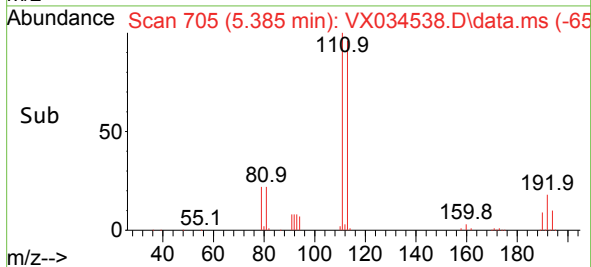
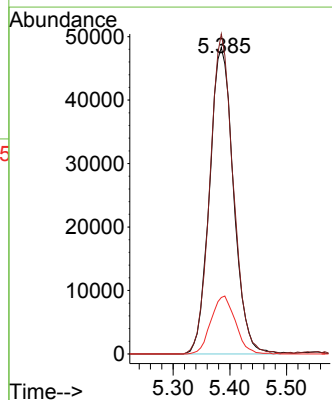
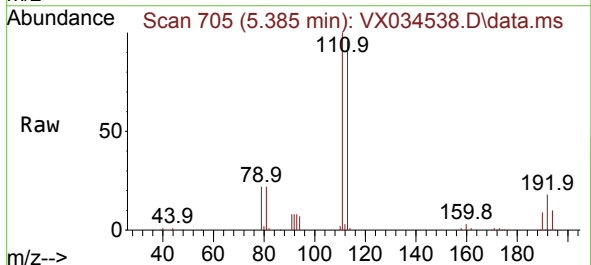
Instrument :  
MSVOA\_X  
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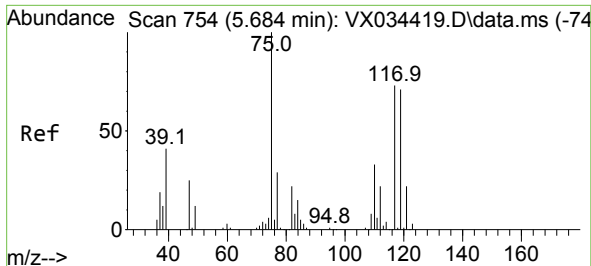
Tgt Ion:114 Resp: 456208  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 42.2  
88 16.0 0.0 33.2



#35  
Dibromofluoromethane  
Concen: 47.045 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

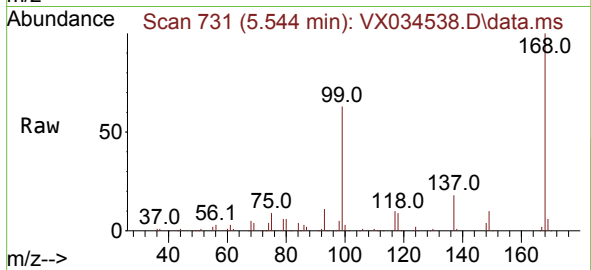
Tgt Ion:113 Resp: 141705  
Ion Ratio Lower Upper  
113 100  
111 101.7 83.7 125.5  
192 19.3 15.4 23.2



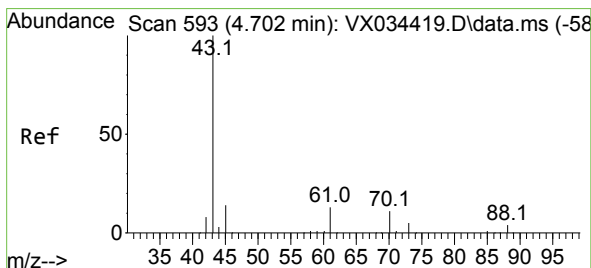
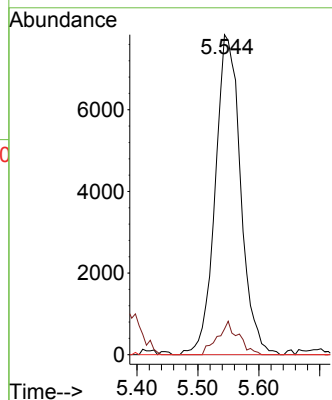
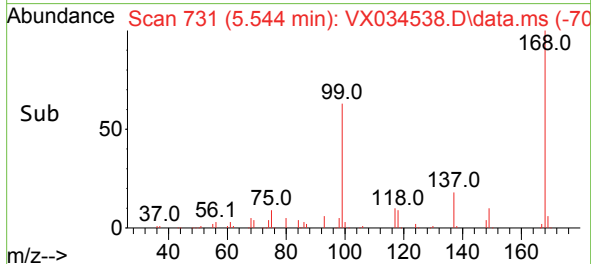


#36  
1,1-Dichloropropene  
Concen: 4.902 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

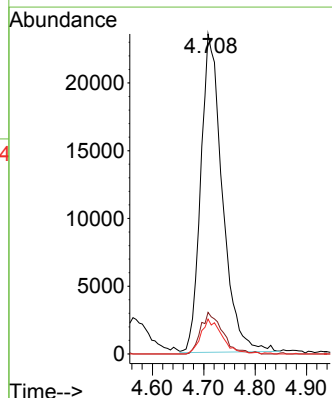
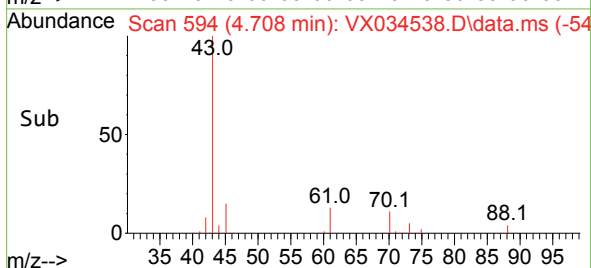
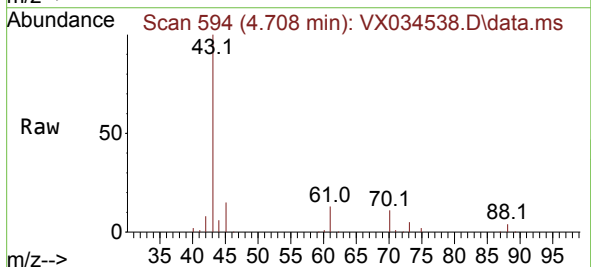


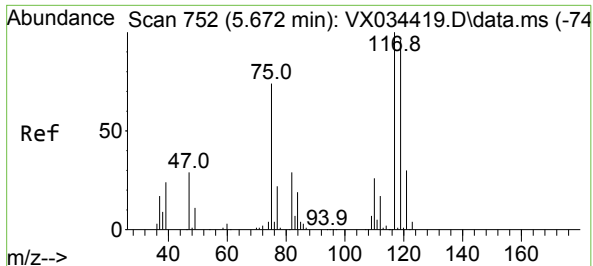
Tgt Ion: 75 Resp: 22679  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.5 52.5#  
77 0.0 24.3 36.5#



#37  
Ethyl Acetate  
Concen: 13.590 ug/l  
RT: 4.708 min Scan# 594  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

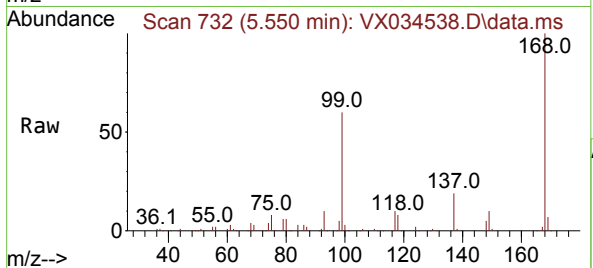
Tgt Ion: 43 Resp: 68685  
Ion Ratio Lower Upper  
43 100  
61 13.2 10.2 15.4  
70 10.7 8.2 12.4



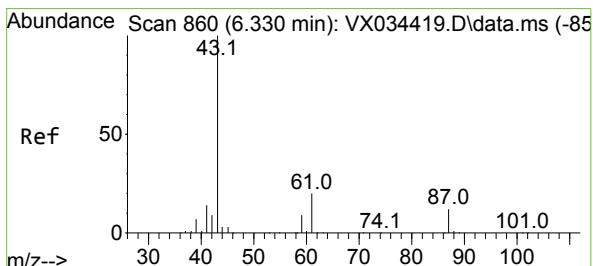
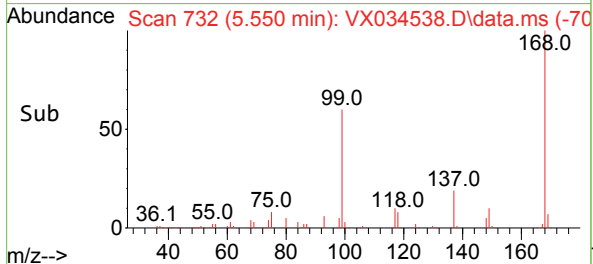
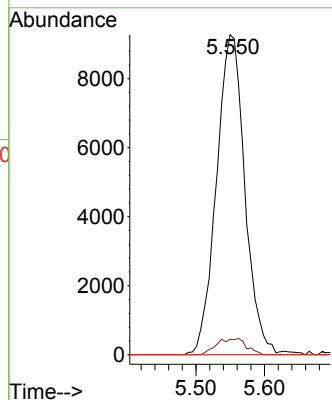


#38  
Carbon Tetrachloride  
Concen: 5.785 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

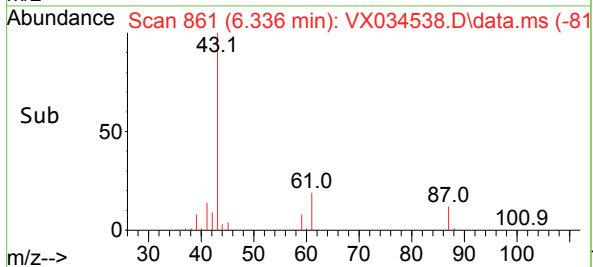
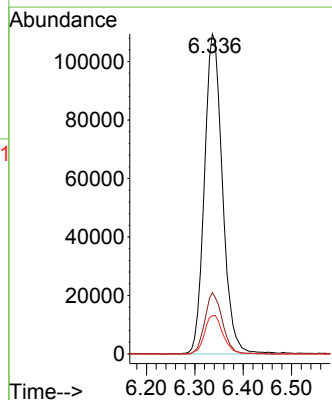
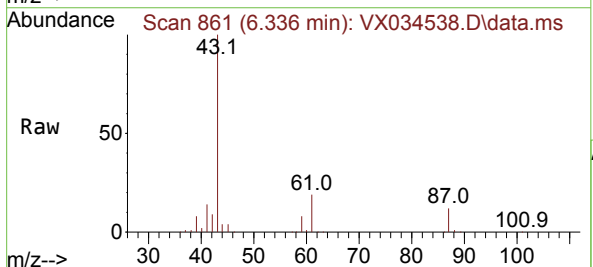


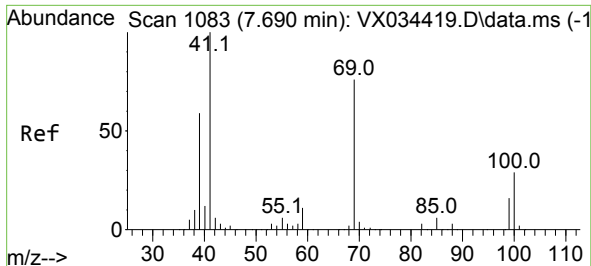
Tgt Ion:117 Resp: 26625  
Ion Ratio Lower Upper  
117 100  
119 4.8 76.6 114.8#  
121 0.0 23.8 35.6#



#43  
Isopropyl Acetate  
Concen: 33.157 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 43 Resp: 283894  
Ion Ratio Lower Upper  
43 100  
61 18.7 15.2 22.8  
87 12.3 9.8 14.8

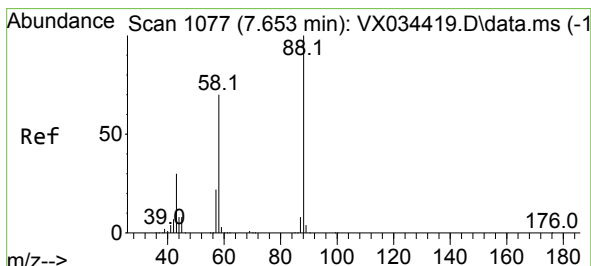
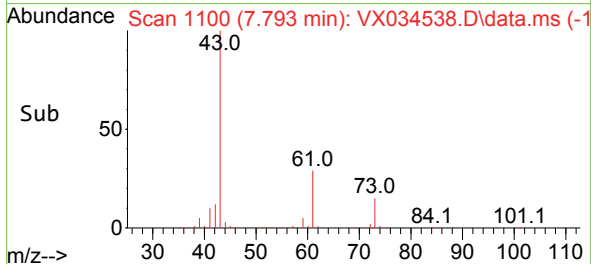
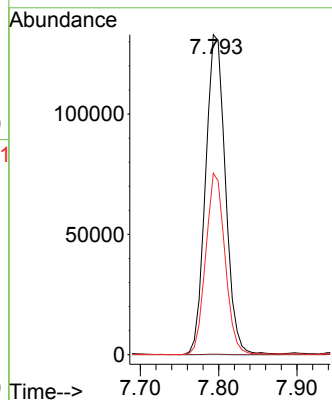
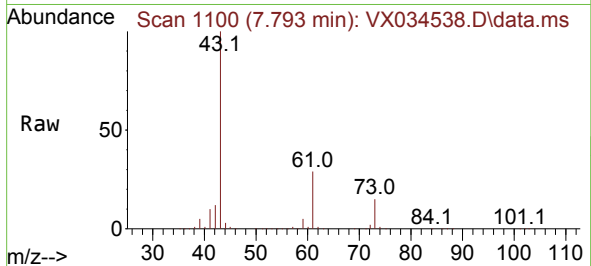




#48  
Methyl methacrylate  
Concen: 57.007 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.104 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

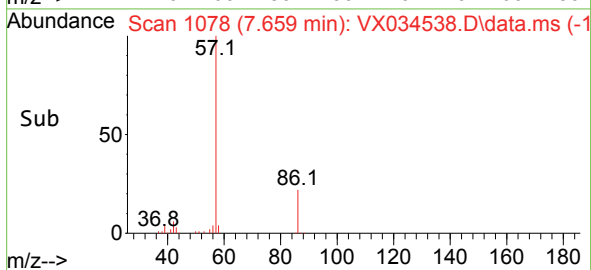
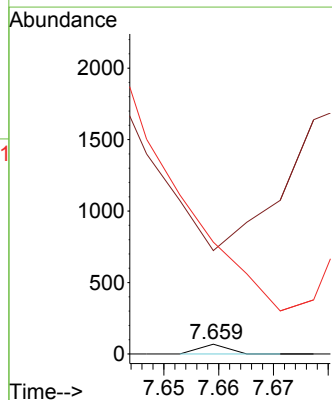
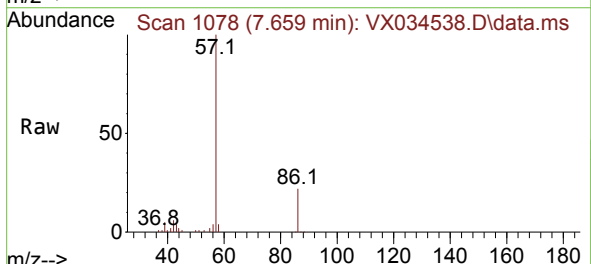
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

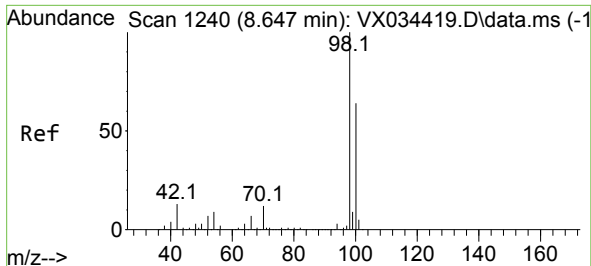
Tgt Ion: 41 Resp: 234752  
Ion Ratio Lower Upper  
41 100  
69 0.2 62.2 93.4#  
39 55.1 47.7 71.5



#49  
1,4-Dioxane  
Concen: 0.289 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. 0.006 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 88 Resp: 25  
Ion Ratio Lower Upper  
88 100  
43 0.0 27.7 41.5#  
58 0.0 56.8 85.2#

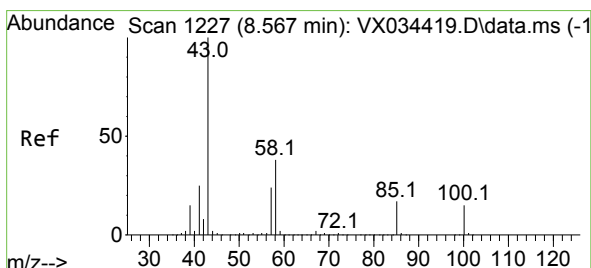
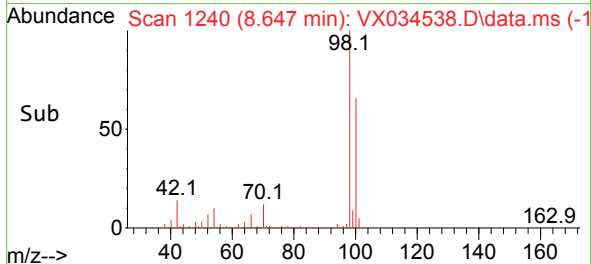
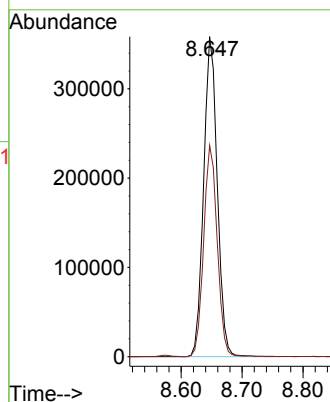
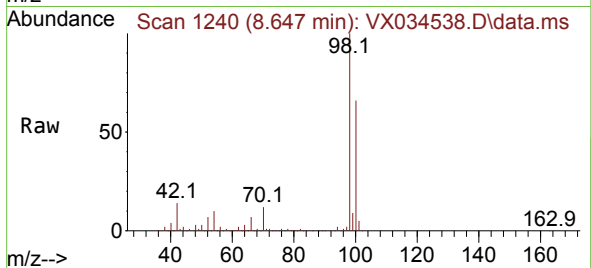




#50  
Toluene-d8  
Concen: 49.621 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

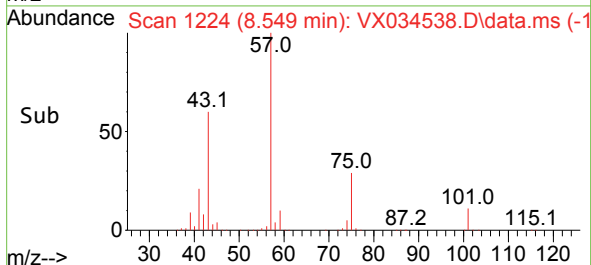
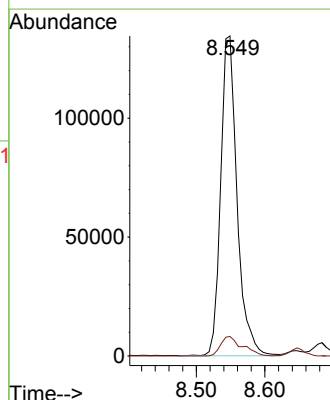
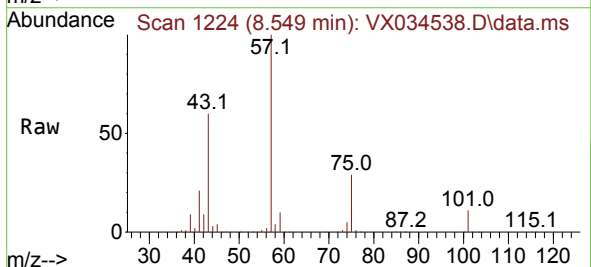
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

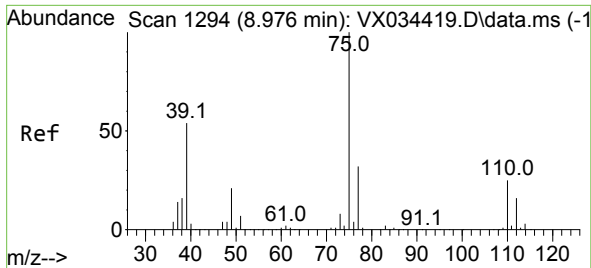
Tgt Ion: 98 Resp: 557953  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.5 78.7



#51  
4-Methyl-2-Pentanone  
Concen: 44.878 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.018 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 43 Resp: 222909  
Ion Ratio Lower Upper  
43 100  
58 8.0 30.6 46.0#

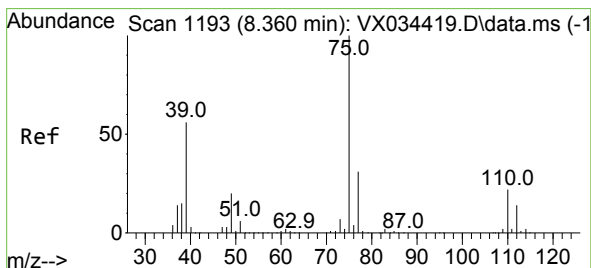
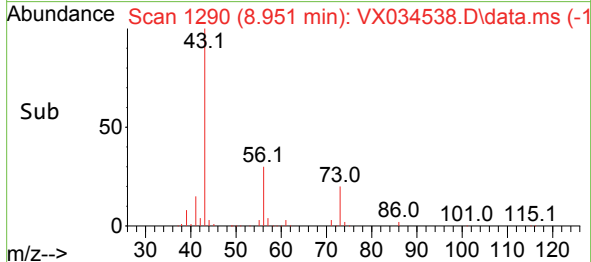
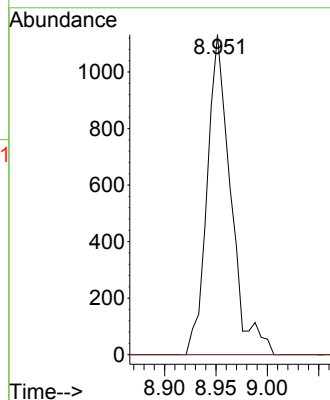
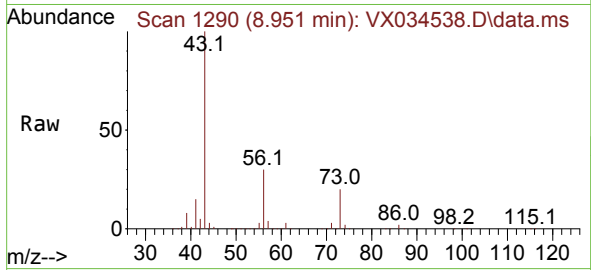




#53  
 t-1,3-Dichloropropene  
 Concen: 0.345 ug/l  
 RT: 8.951 min Scan# 11  
 Delta R.T. -0.024 min  
 Lab File: VX034538.D  
 Acq: 16 Mar 2023 12:16

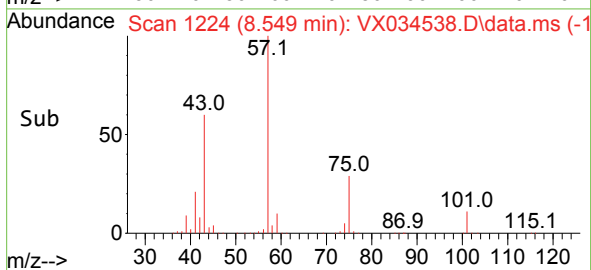
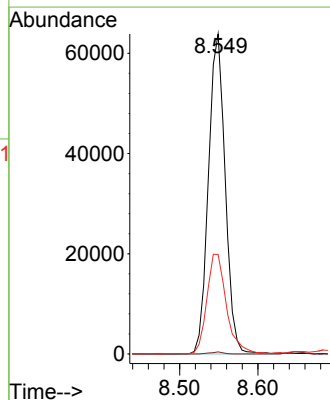
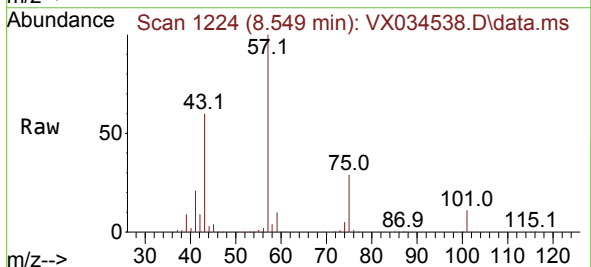
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB151426TB

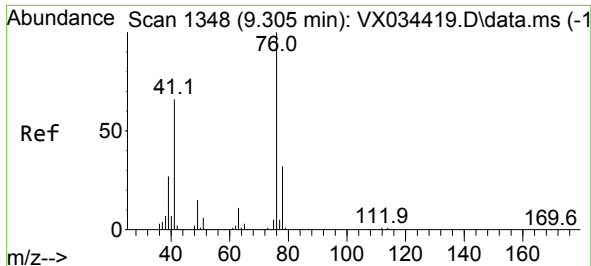
Tgt Ion: 75 Resp: 1808  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.4 38.2#



#54  
 cis-1,3-Dichloropropene  
 Concen: 16.713 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.189 min  
 Lab File: VX034538.D  
 Acq: 16 Mar 2023 12:16

Tgt Ion: 75 Resp: 94720  
 Ion Ratio Lower Upper  
 75 100  
 77 0.7 25.0 37.4#  
 39 31.0 44.6 66.8#





#57

1,3-Dichloropropane

Concen: 2.212 ug/l

RT: 9.482 min Scan# 1177

Delta R.T. 0.177 min

Lab File: VX034538.D

Acq: 16 Mar 2023 12:16

Instrument :

MSVOA\_X

ClientSampleId :

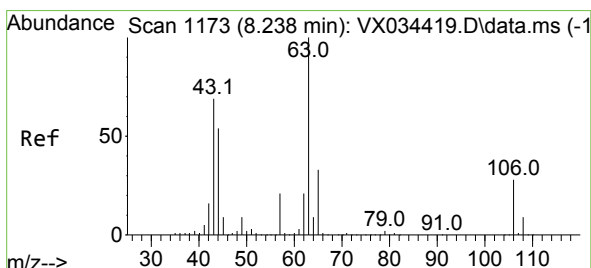
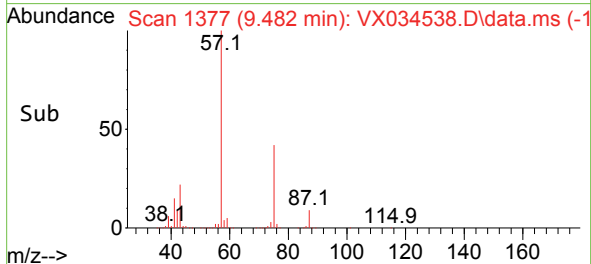
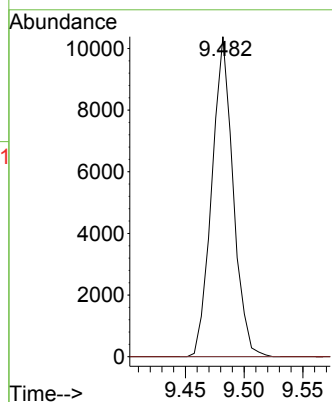
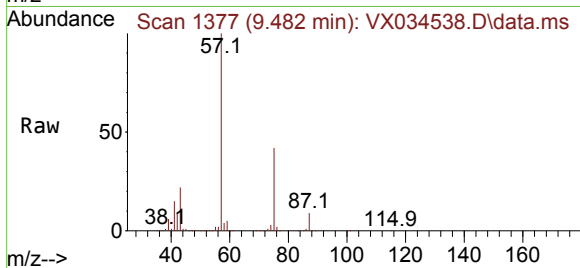
PB151426TB

Tgt Ion: 76 Resp: 13074

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#58

2-Chloroethyl Vinyl ether

Concen: 0.847 ug/l

RT: 8.250 min Scan# 1175

Delta R.T. 0.012 min

Lab File: VX034538.D

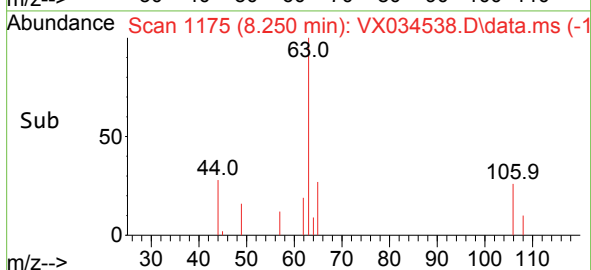
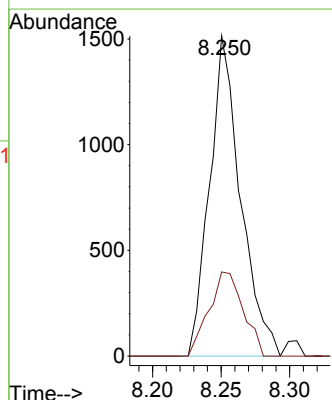
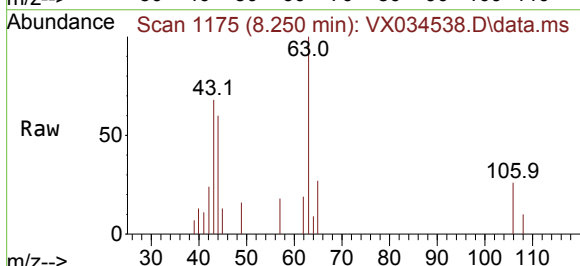
Acq: 16 Mar 2023 12:16

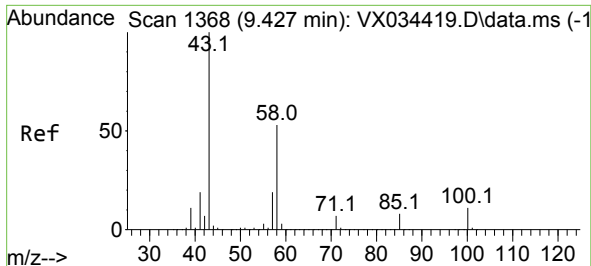
Tgt Ion: 63 Resp: 2382

Ion Ratio Lower Upper

63 100

106 29.0 22.2 33.2

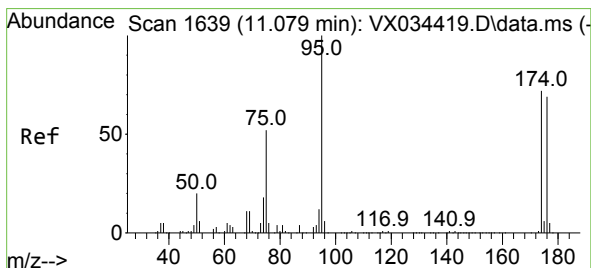
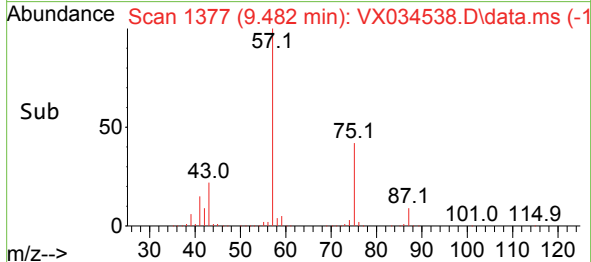
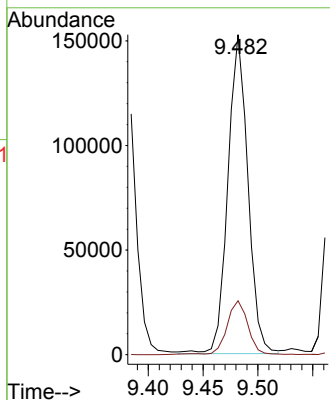
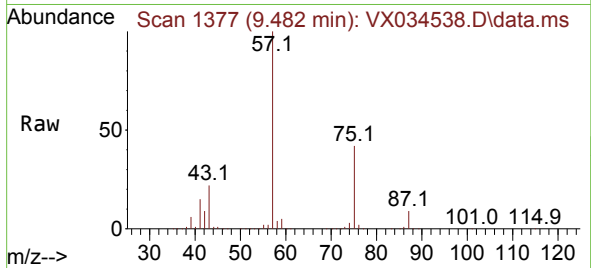




#59  
2-Hexanone  
Concen: 50.450 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.055 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

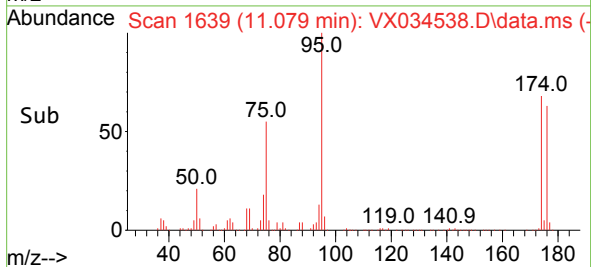
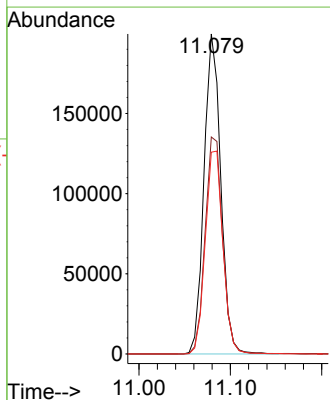
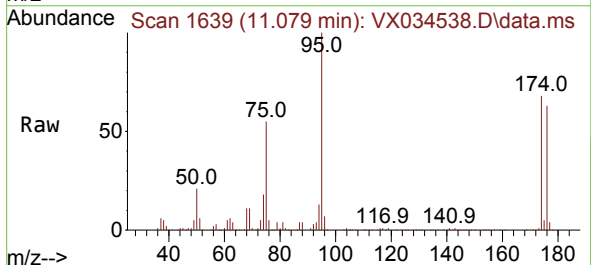
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

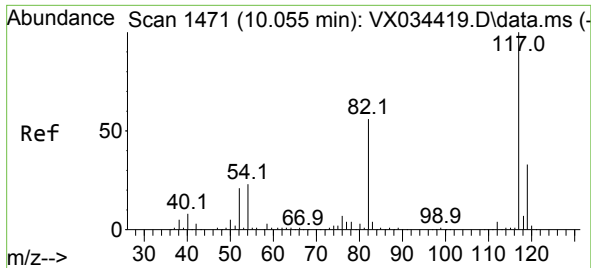
Tgt Ion: 43 Resp: 193705  
Ion Ratio Lower Upper  
43 100  
58 18.0 26.3 78.9#



#62  
4-Bromofluorobenzene  
Concen: 55.913 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion: 95 Resp: 253947  
Ion Ratio Lower Upper  
95 100  
174 71.0 0.0 147.4  
176 67.1 0.0 140.6

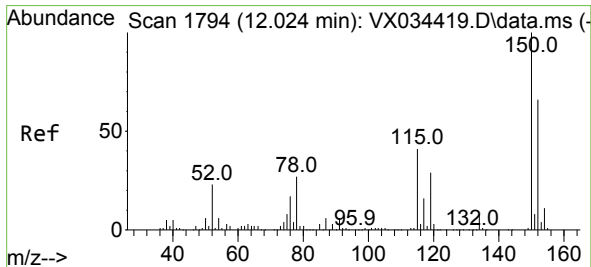
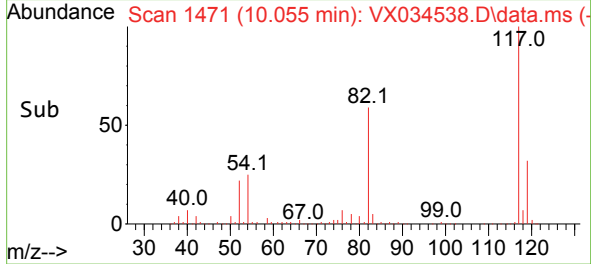
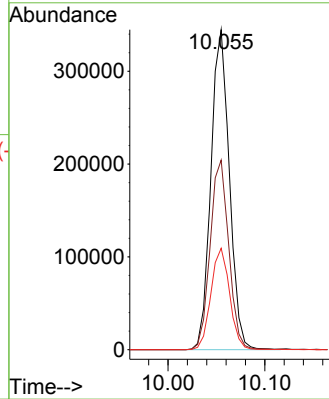
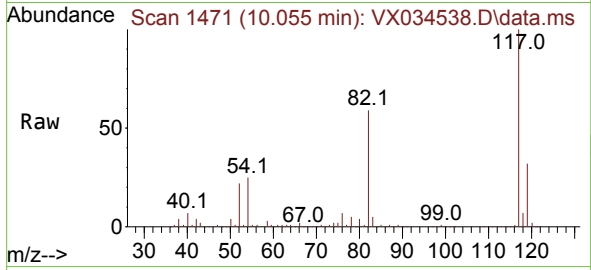




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

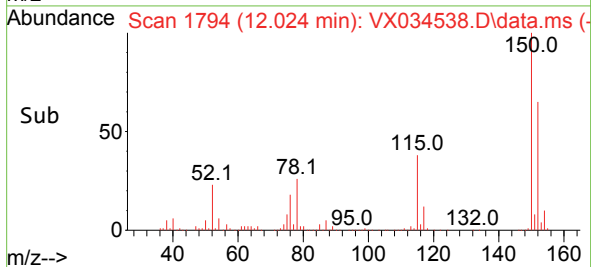
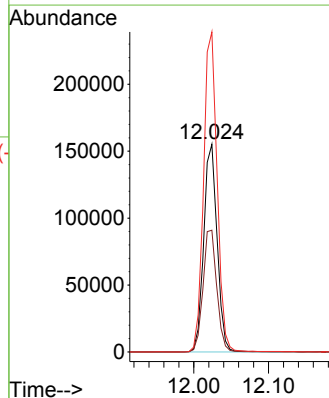
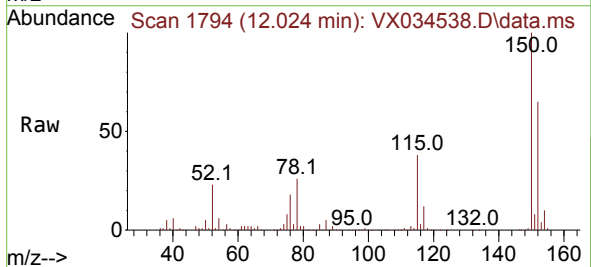
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB151426TB

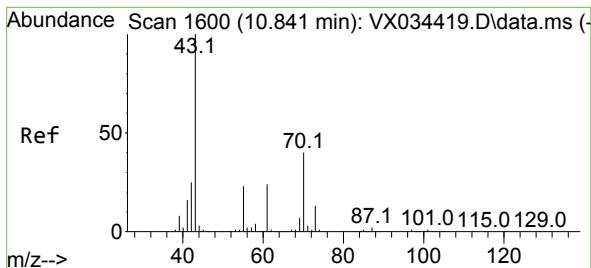
Tgt Ion:117 Resp: 457560  
Ion Ratio Lower Upper  
117 100  
82 59.2 45.0 67.4  
119 31.7 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX034538.D  
Acq: 16 Mar 2023 12:16

Tgt Ion:152 Resp: 193173  
Ion Ratio Lower Upper  
152 100  
115 60.3 45.0 135.0  
150 156.0 0.0 352.4





#74

N-amy1 acetate

Concen: 11.116 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

Lab File: VX034538.D

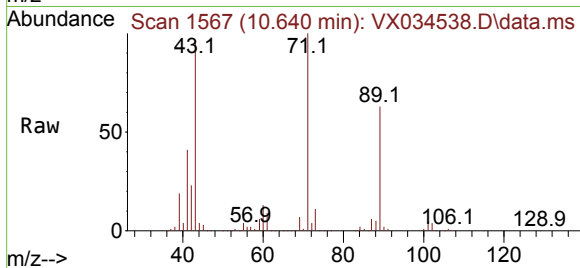
Acq: 16 Mar 2023 12:16

Instrument :

MSVOA\_X

ClientSampleId :

PB151426TB



Tgt Ion: 43 Resp: 79491

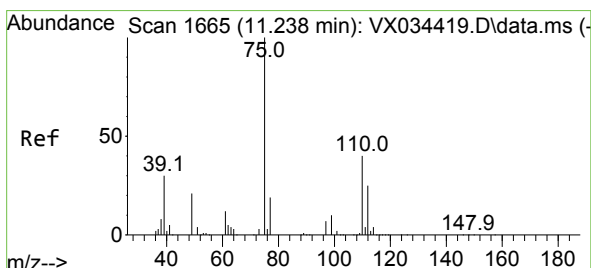
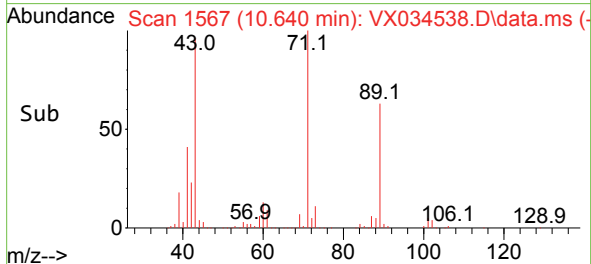
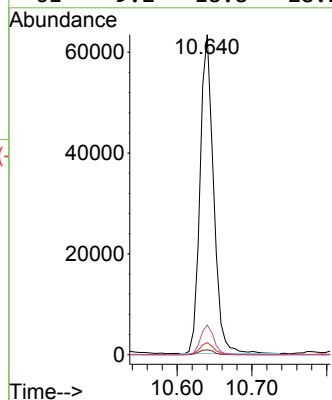
Ion Ratio Lower Upper

43 100

70 1.7 32.1 48.1#

55 4.1 18.3 27.5#

61 9.2 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 31.404 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX034538.D

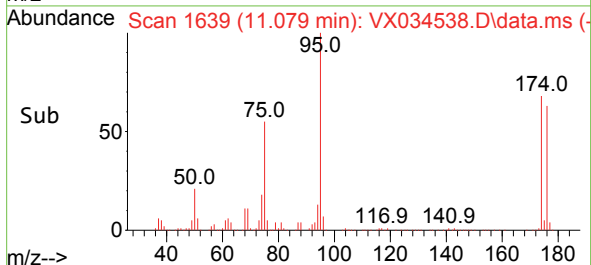
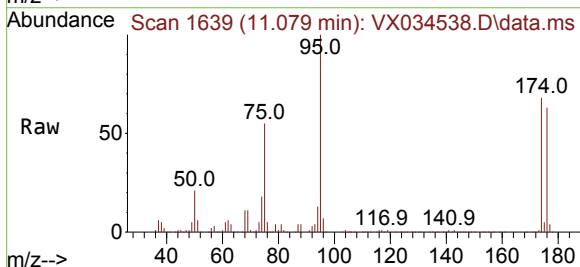
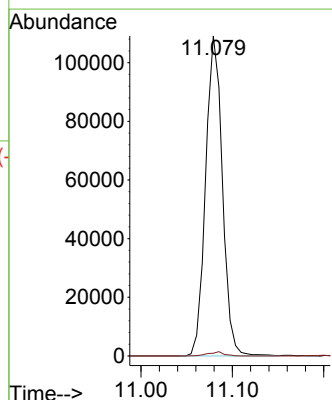
Acq: 16 Mar 2023 12:16

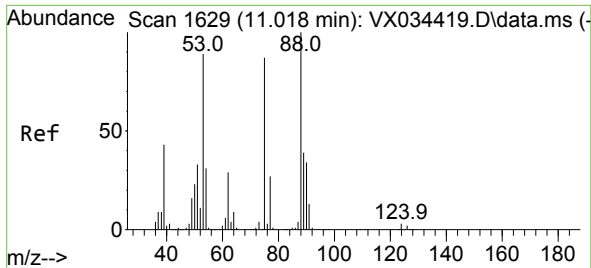
Tgt Ion: 75 Resp: 139293

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 84.958 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX034538.D  
 Acq: 16 Mar 2023 12:16

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB151426TB

Tgt Ion: 75 Resp: 139293  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 82.6 124.0#  
 89 0.0 36.9 55.3#

