

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020823\  
 Data File : VN076585.D  
 Acq On : 08 Feb 2023 17:22  
 Operator : JC\MD  
 Sample : 01418-14  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 JPP-22-020223

Quant Time: Feb 09 00:51:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 09:04:43 2023  
 Response via : Initial Calibration

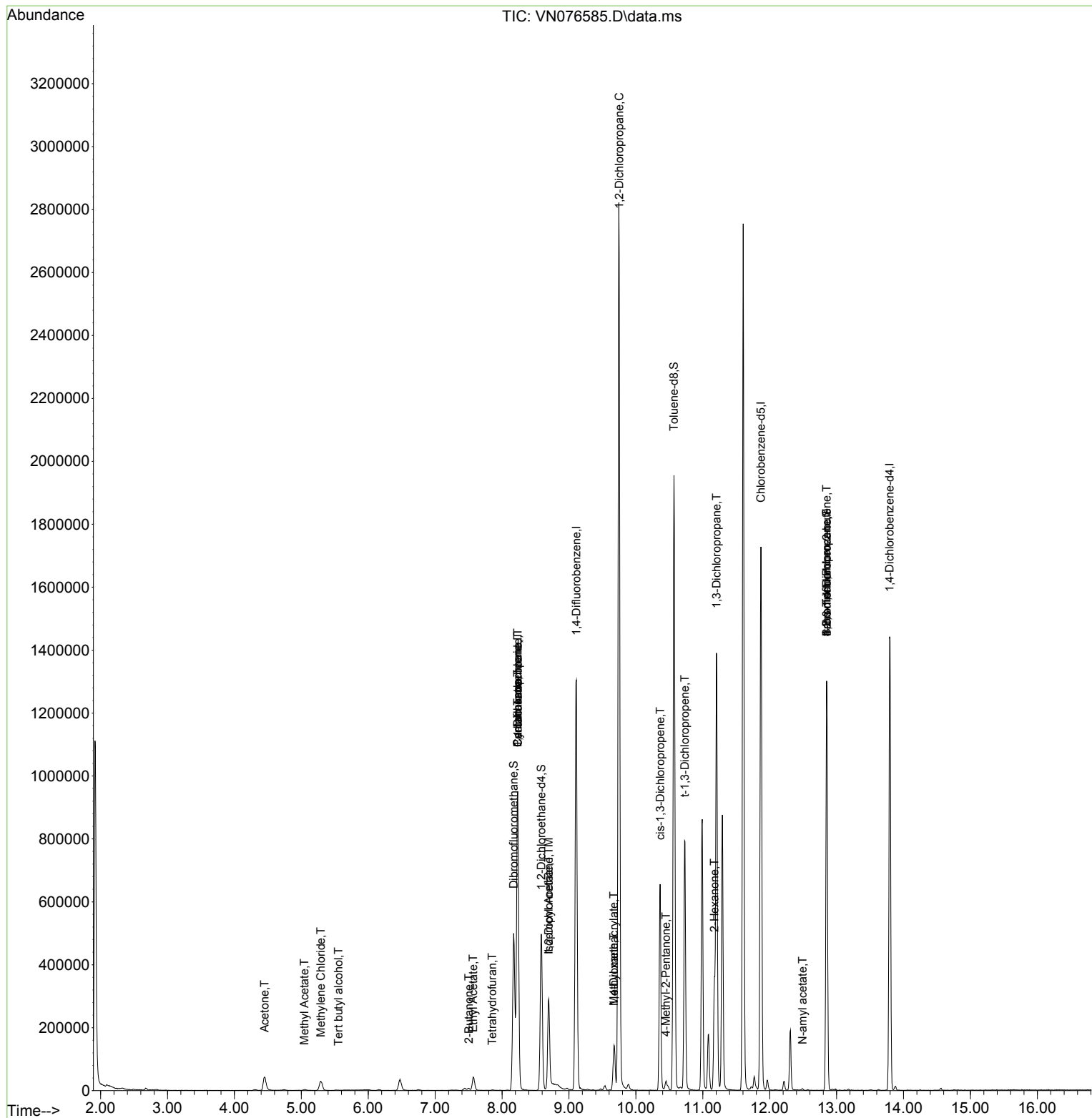
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.233  | 168   | 722596   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.110  | 114   | 1232416  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.869 | 117   | 1077085  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.792 | 152   | 419968   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.586  | 65    | 407357   | 47.763   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 95.520%  |
| 35) Dibromofluoromethane      | 8.175  | 113   | 368634   | 48.118   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 96.240%  |
| 50) Toluene-d8                | 10.569 | 98    | 1421823  | 49.333   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 98.660%  |
| 62) 4-Bromofluorobenzene      | 12.851 | 95    | 477630   | 47.041   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 94.080%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 5.557  | 59    | 778      | 0.700    | ug/l # | 72       |
| 16) Acetone                   | 4.451  | 43    | 83172    | 29.579   | ug/l   | 94       |
| 18) Methyl Acetate            | 5.045  | 43    | 6268     | 0.705    | ug/l # | 85       |
| 20) Methylene Chloride        | 5.293  | 84    | 26797    | 3.091    | ug/l   | 96       |
| 25) 2-Butanone                | 7.504  | 43    | 11117    | 2.751    | ug/l   | 95       |
| 29) Tetrahydrofuran           | 7.851  | 42    | 1082     | 0.417    | ug/l # | 83       |
| 31) Cyclohexane               | 8.233  | 56    | 12242    | 0.908    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.233  | 75    | 52979    | 4.843    | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.569  | 43    | 63347    | 7.730    | ug/l   | 96       |
| 38) Carbon Tetrachloride      | 8.233  | 117   | 74074    | 6.298    | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 8.698  | 62    | 2907     | 0.269    | ug/l # | 71       |
| 43) Isopropyl Acetate         | 8.698  | 43    | 332389   | 24.375   | ug/l # | 88       |
| 45) 1,2-Dichloropropane       | 9.751  | 63    | 3875     | 0.487    | ug/l # | 42       |
| 48) Methyl methacrylate       | 9.669  | 41    | 8429     | 1.257    | ug/l # | 32       |
| 49) 1,4-Dioxane               | 9.669  | 88    | 76       | 0.530    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.451 | 43    | 25820    | 3.150    | ug/l # | 79       |
| 53) t-1,3-Dichloropropene     | 10.733 | 75    | 2557     | 0.229    | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 10.363 | 75    | 133686   | 10.503   | ug/l # | 59       |
| 57) 1,3-Dichloropropane       | 11.204 | 76    | 16112    | 1.188    | ug/l # | 42       |
| 59) 2-Hexanone                | 11.174 | 43    | 276463   | 47.317   | ug/l # | 18       |
| 71) Bromoform                 | 12.851 | 173   | 2319     | 0.403    | ug/l # | 1        |
| 74) N-amyl acetate            | 12.492 | 43    | 3558     | 0.371    | ug/l # | 37       |
| 76) 1,2,3-Trichloropropane    | 12.851 | 75    | 232983   | 29.734   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.851 | 75    | 232983   | 91.303   | ug/l # | 10       |

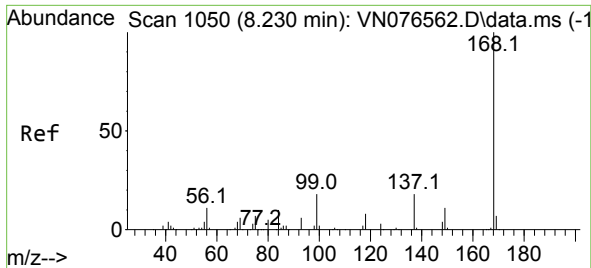
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Feb 08 09:04:43 2023  
Response via : Initial Calibration

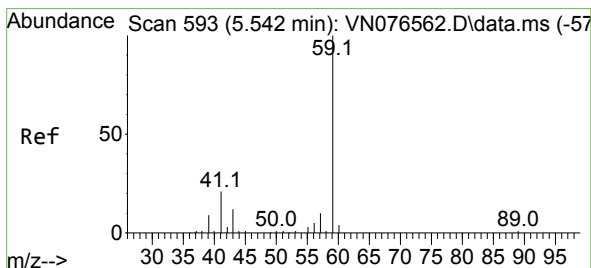
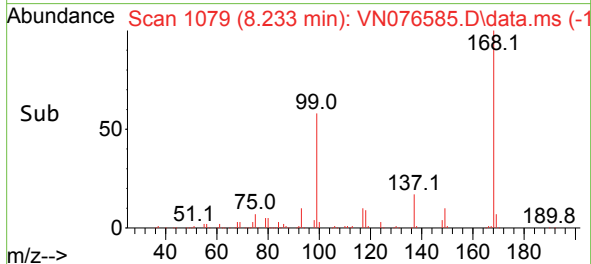
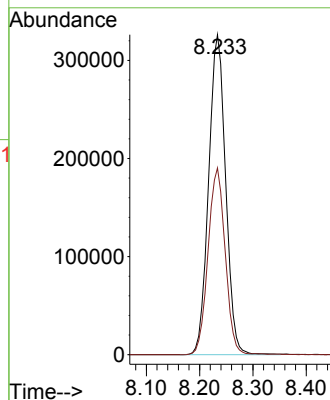
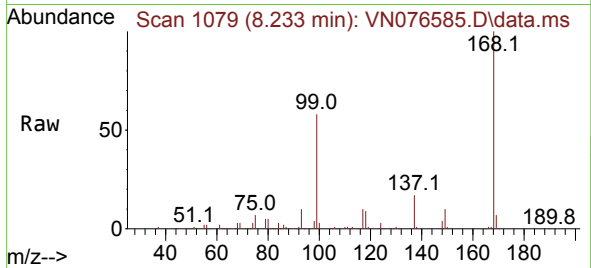




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.233 min Scan# 1  
Delta R.T. 0.003 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

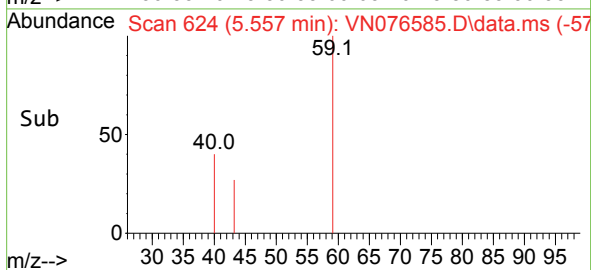
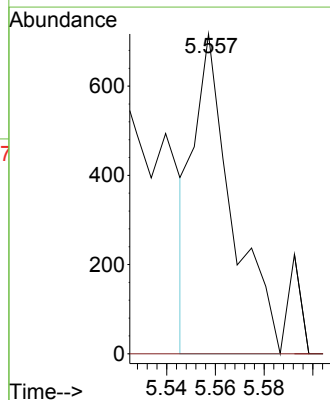
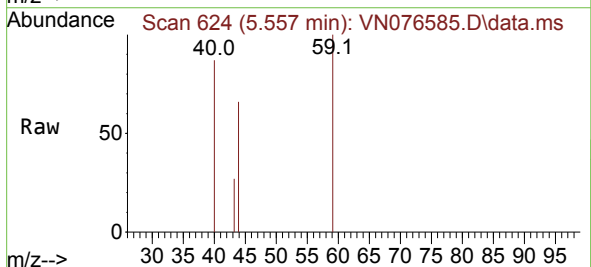
Instrument :  
MSVOA\_N  
ClientSampleId :  
JPP-22-020223

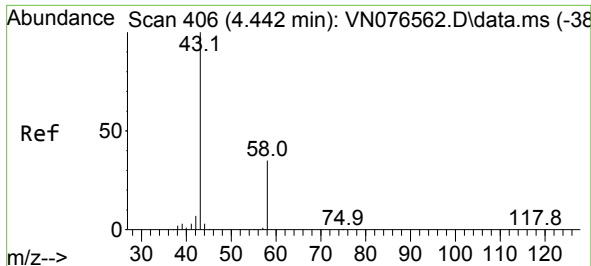
Tgt Ion:168 Resp: 722596  
Ion Ratio Lower Upper  
168 100  
99 58.3 47.8 71.8



#11  
Tert butyl alcohol  
Concen: 0.700 ug/l  
RT: 5.557 min Scan# 624  
Delta R.T. 0.015 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Tgt Ion: 59 Resp: 778  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#





#16

Acetone

Concen: 29.579 ug/l

RT: 4.451 min Scan# 41

Delta R.T. 0.009 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

Instrument :

MSVOA\_N

ClientSampleId :

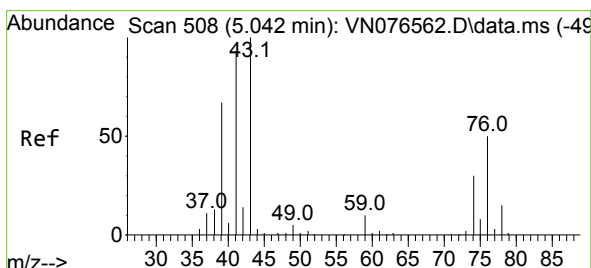
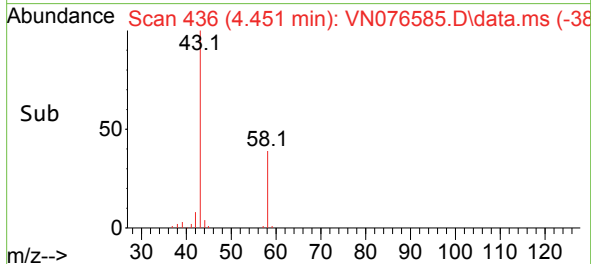
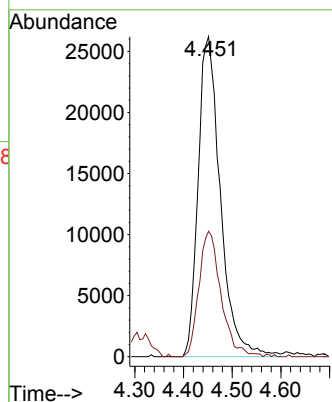
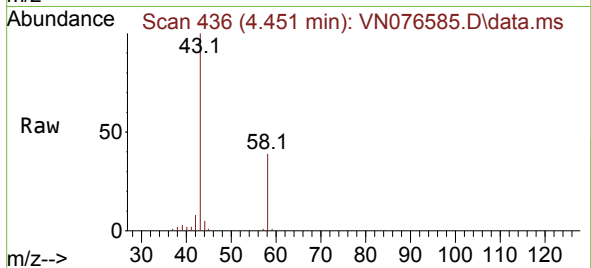
JPP-22-020223

Tgt Ion: 43 Resp: 83172

Ion Ratio Lower Upper

43 100

58 39.2 28.4 42.6



#18

Methyl Acetate

Concen: 0.705 ug/l

RT: 5.045 min Scan# 537

Delta R.T. 0.003 min

Lab File: VN076585.D

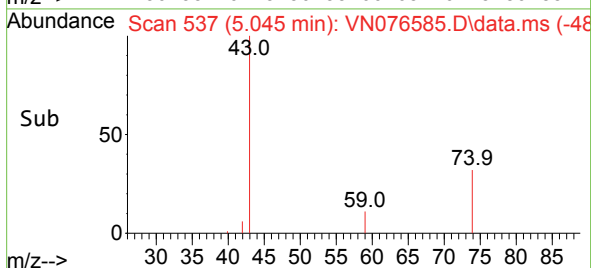
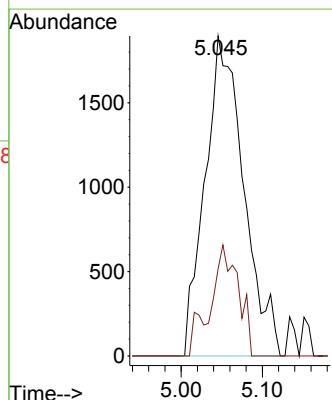
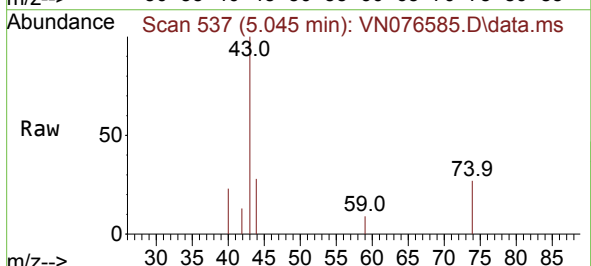
Acq: 08 Feb 2023 17:22

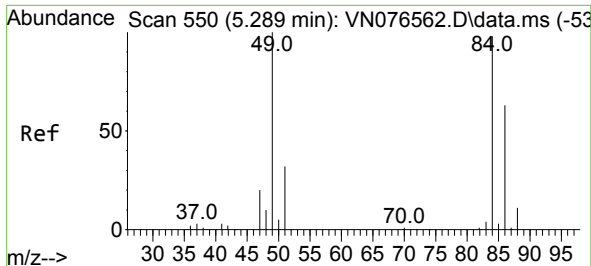
Tgt Ion: 43 Resp: 6268

Ion Ratio Lower Upper

43 100

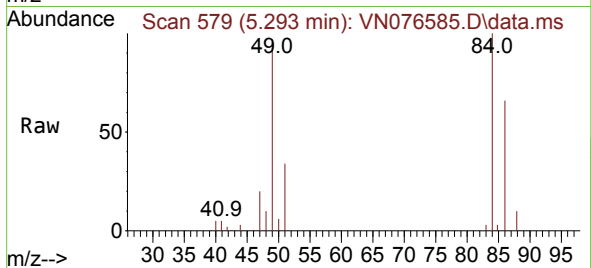
74 21.5 23.9 35.9#



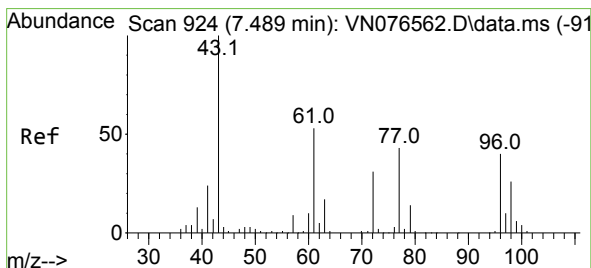
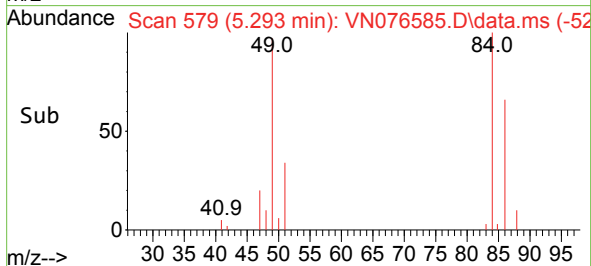
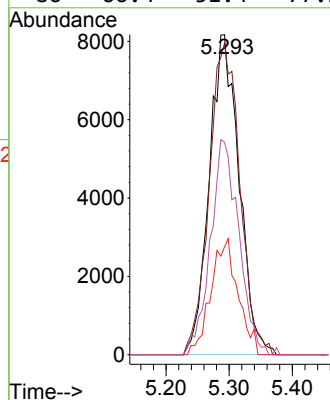


#20  
Methylene Chloride  
Concen: 3.091 ug/l  
RT: 5.293 min Scan# 51  
Delta R.T. 0.004 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
JPP-22-020223

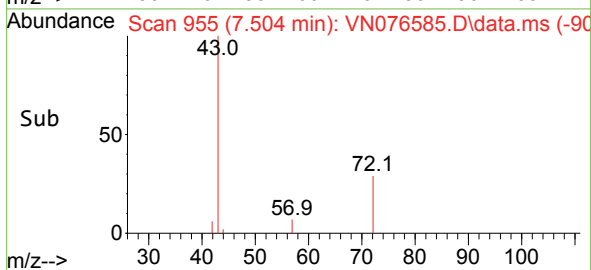
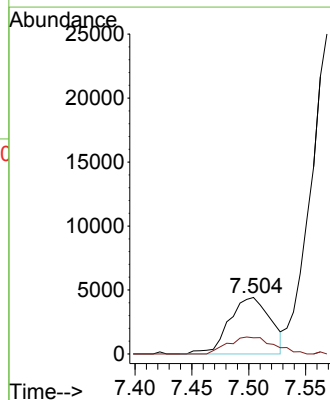
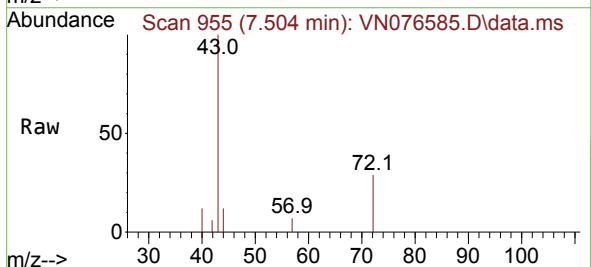


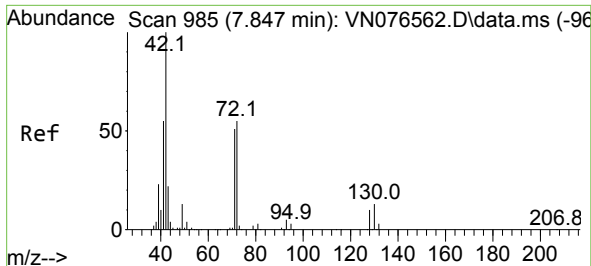
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 26797 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 97.3     | 82.0 123.0  |
| 51 33.7     | 26.0 39.0   |
| 86 66.4     | 51.4 77.2   |



#25  
2-Butanone  
Concen: 2.751 ug/l  
RT: 7.504 min Scan# 955  
Delta R.T. 0.015 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 11117 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 72 28.6     | 25.1 37.7   |





#29

Tetrahydrofuran

Concen: 0.417 ug/l

RT: 7.851 min Scan# 1082

Delta R.T. 0.004 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

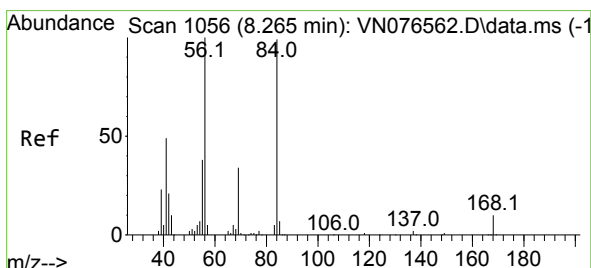
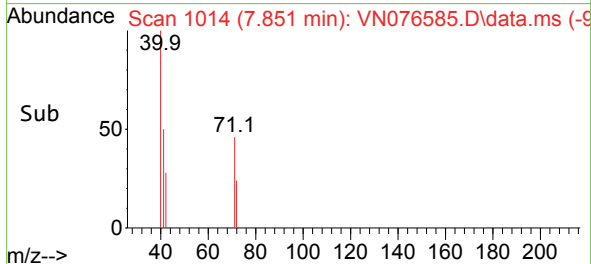
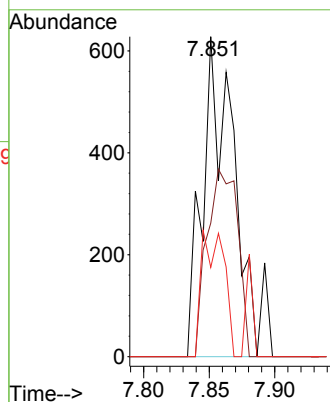
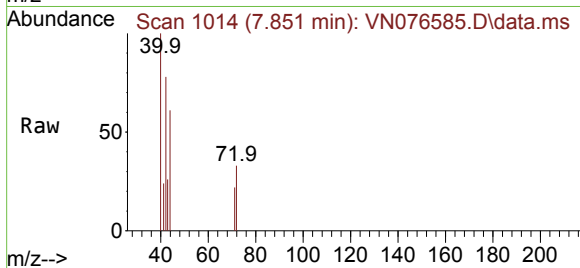
Instrument :

MSVOA\_N

ClientSampleId :

JPP-22-020223

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1082  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 55.5  | 42.9  | 64.3  |
| 71       | 27.4  | 39.9  | 59.9  |



#31

Cyclohexane

Concen: 0.908 ug/l

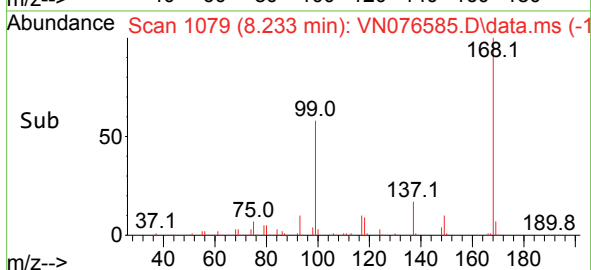
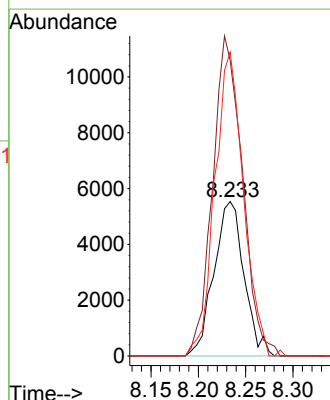
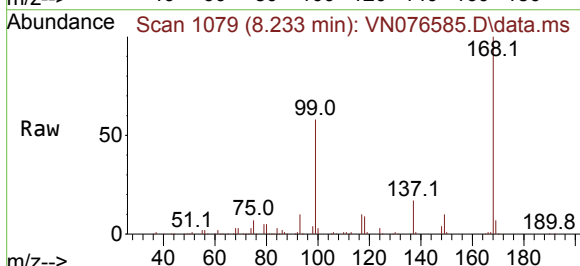
RT: 8.233 min Scan# 1079

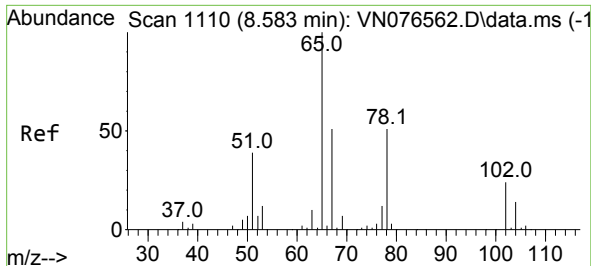
Delta R.T. -0.032 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 12242 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 191.6 | 27.0  | 40.4  |
| 84       | 196.8 | 79.5  | 119.3 |





#33

1,2-Dichloroethane-d4

Concen: 47.763 ug/l

RT: 8.586 min Scan# 1110

Delta R.T. 0.003 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

Instrument :

MSVOA\_N

ClientSampleId :

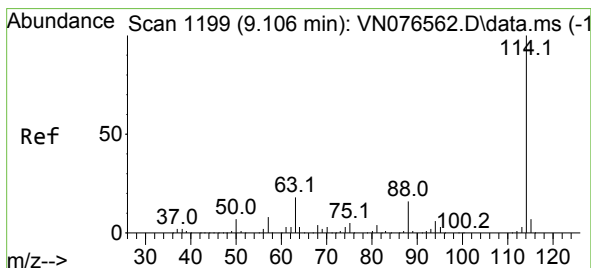
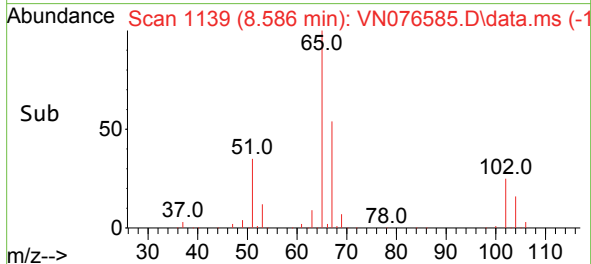
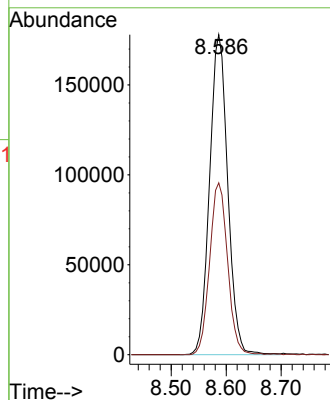
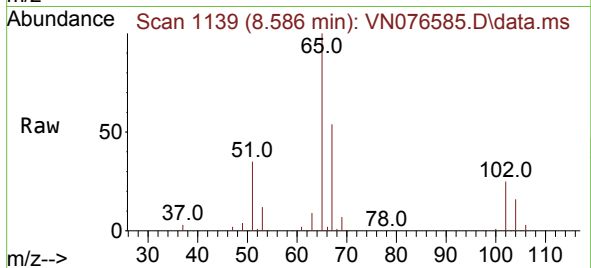
JPP-22-020223

Tgt Ion: 65 Resp: 407357

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.110 min Scan# 1228

Delta R.T. 0.004 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

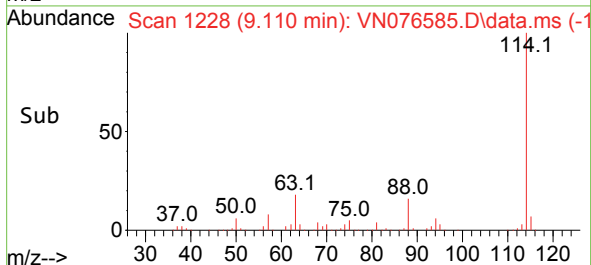
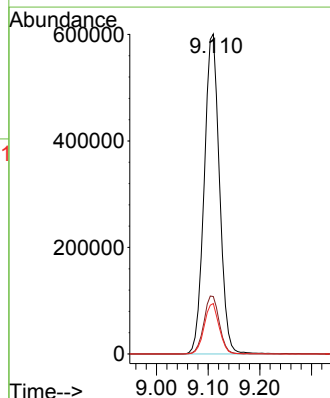
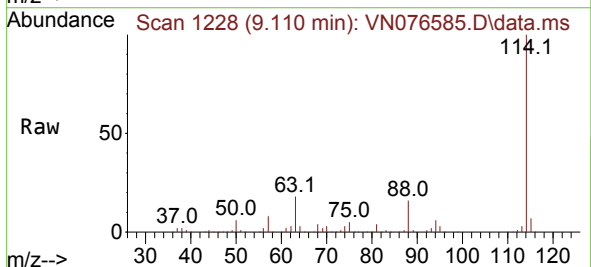
Tgt Ion: 114 Resp: 1232416

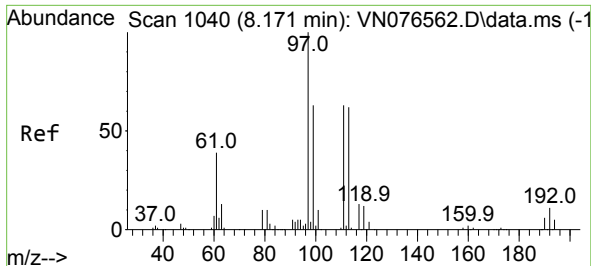
Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.6

88 15.8 0.0 32.0





#35

Dibromofluoromethane

Concen: 48.118 ug/l

RT: 8.175 min Scan# 1040

Delta R.T. 0.004 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

Instrument :

MSVOA\_N

ClientSampleId :

JPP-22-020223

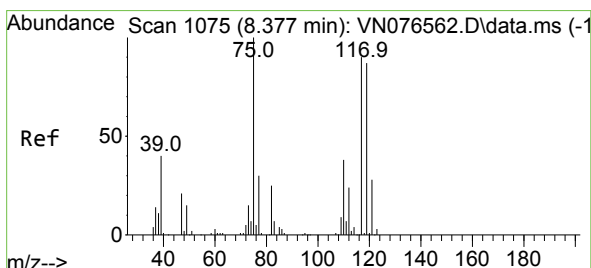
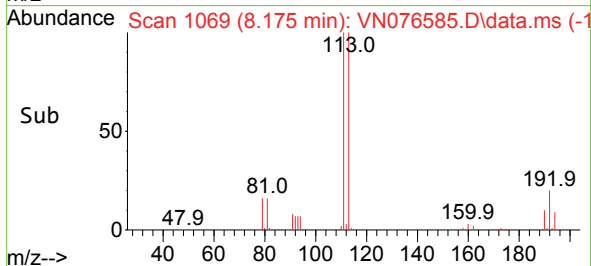
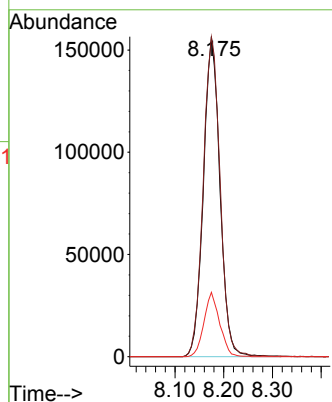
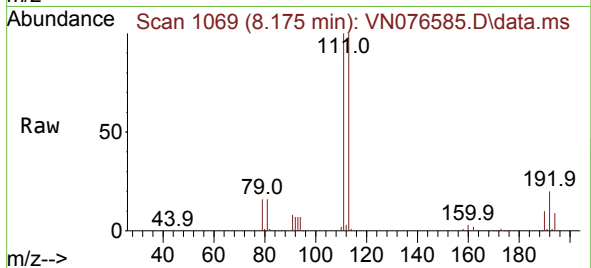
Tgt Ion:113 Resp: 368634

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

192 19.1 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.843 ug/l

RT: 8.233 min Scan# 1079

Delta R.T. -0.144 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

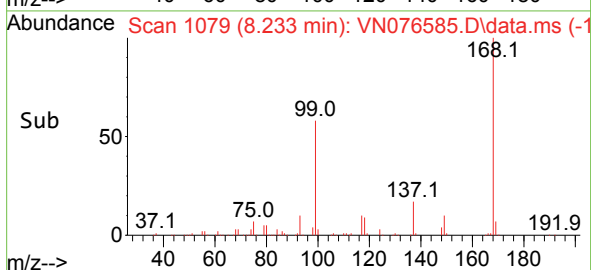
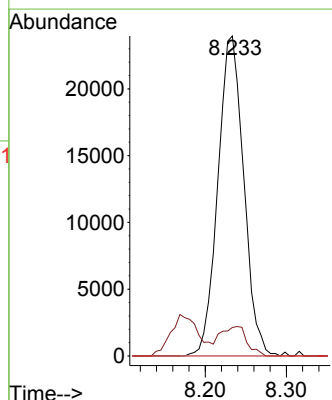
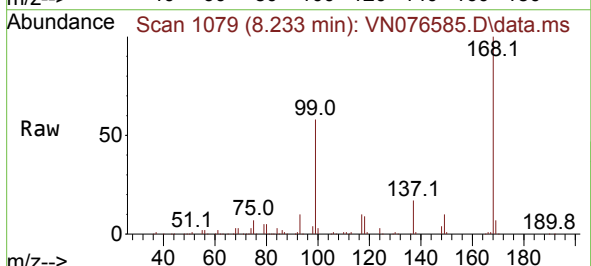
Tgt Ion: 75 Resp: 52979

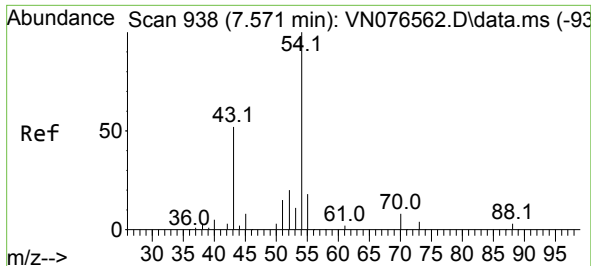
Ion Ratio Lower Upper

75 100

110 9.4 18.6 55.6#

77 0.0 25.1 37.7#

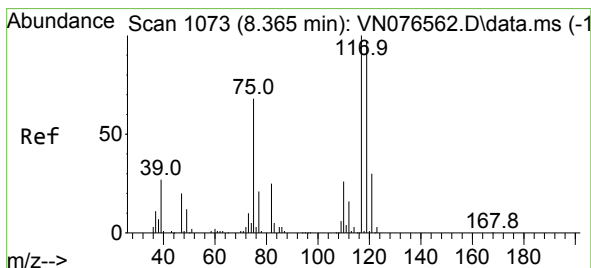
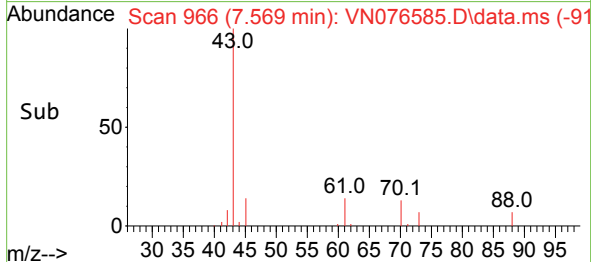
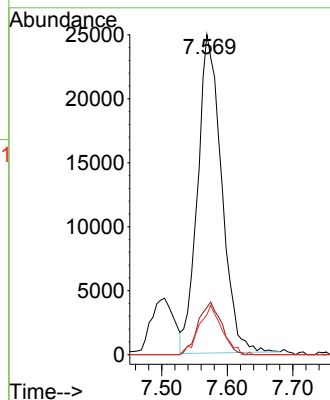
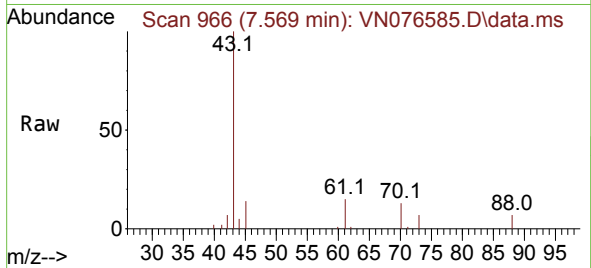




#37  
Ethyl Acetate  
Concen: 7.730 ug/l  
RT: 7.569 min Scan# 91  
Delta R.T. -0.002 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

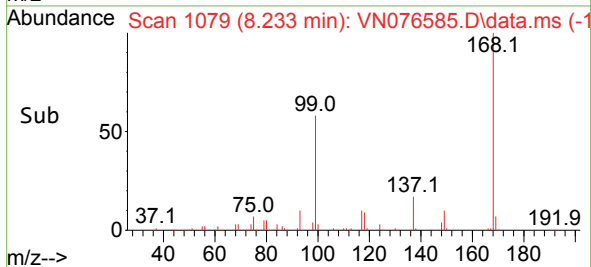
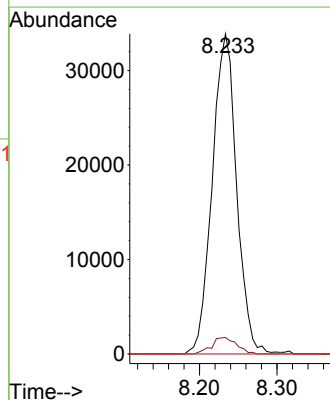
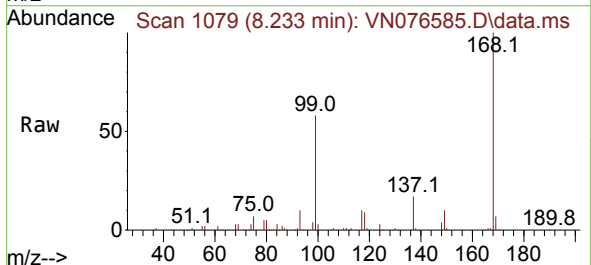
Instrument :  
MSVOA\_N  
ClientSampleId :  
JPP-22-020223

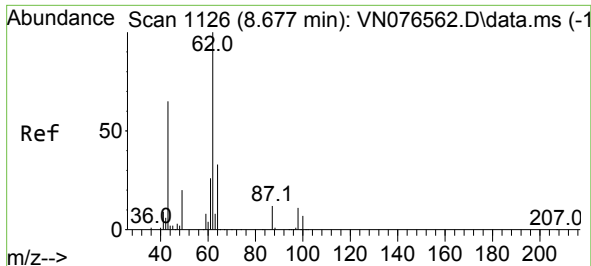
Tgt Ion: 43 Resp: 63347  
Ion Ratio Lower Upper  
43 100  
61 16.2 11.8 17.6  
70 14.7 10.4 15.6



#38  
Carbon Tetrachloride  
Concen: 6.298 ug/l  
RT: 8.233 min Scan# 1079  
Delta R.T. -0.132 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Tgt Ion: 117 Resp: 74074  
Ion Ratio Lower Upper  
117 100  
119 5.1 77.2 115.8#  
121 0.0 23.9 35.9#





#42

1,2-Dichloroethane

Concen: 0.269 ug/l

RT: 8.698 min Scan# 1158

Delta R.T. 0.021 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

Instrument :

MSVOA\_N

ClientSampleId :

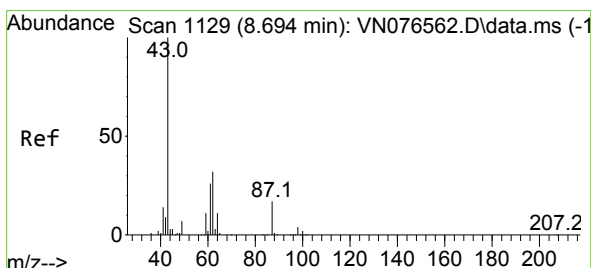
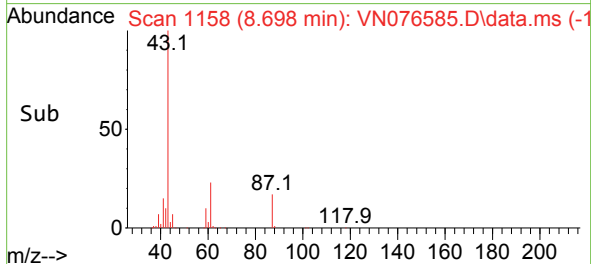
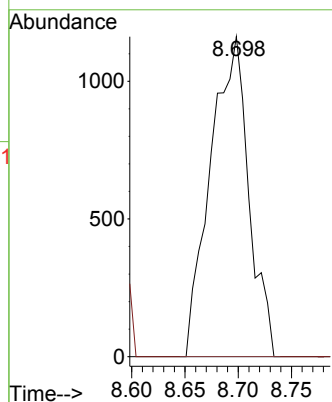
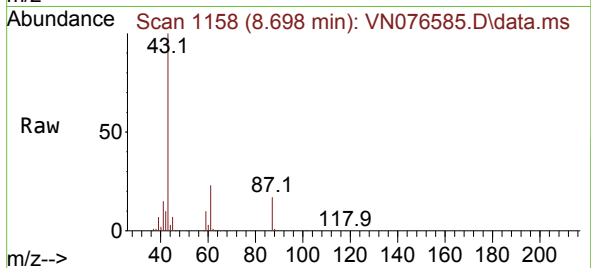
JPP-22-020223

Tgt Ion: 62 Resp: 2907

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.6



#43

Isopropyl Acetate

Concen: 24.375 ug/l

RT: 8.698 min Scan# 1158

Delta R.T. 0.004 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

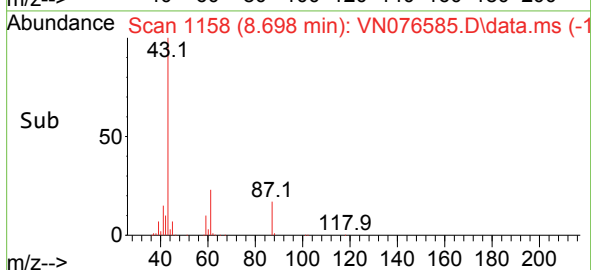
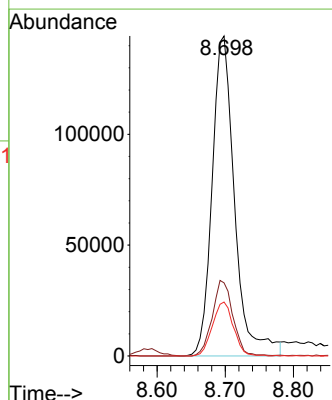
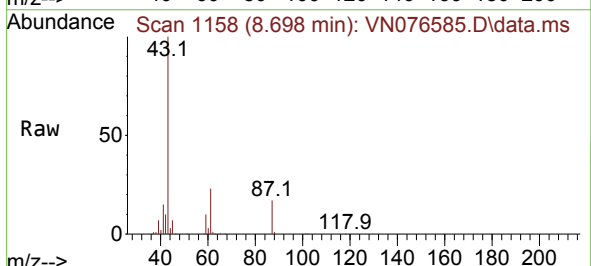
Tgt Ion: 43 Resp: 332389

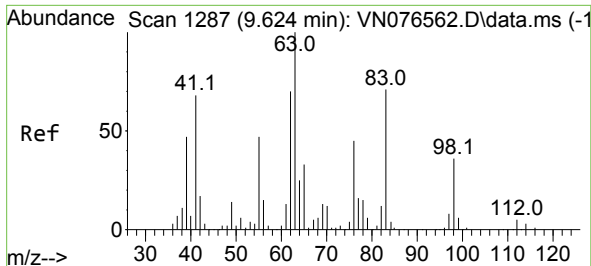
Ion Ratio Lower Upper

43 100

61 21.5 24.5 36.7#

87 15.7 13.6 20.4

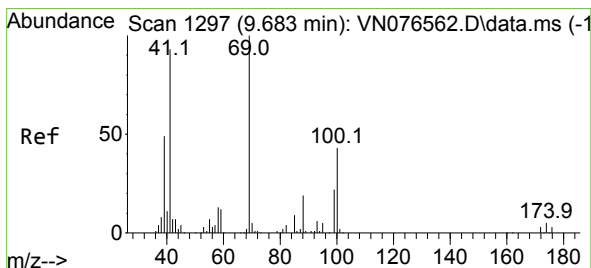
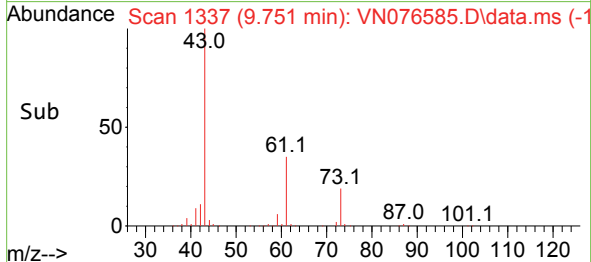
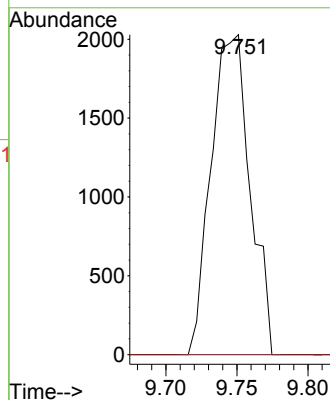
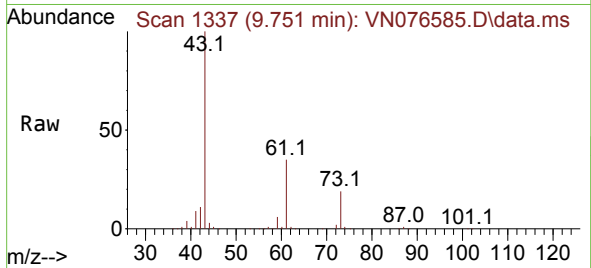




#45  
1,2-Dichloropropane  
Concen: 0.487 ug/l  
RT: 9.751 min Scan# 11  
Delta R.T. 0.127 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

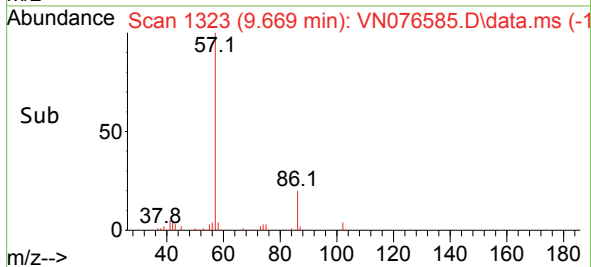
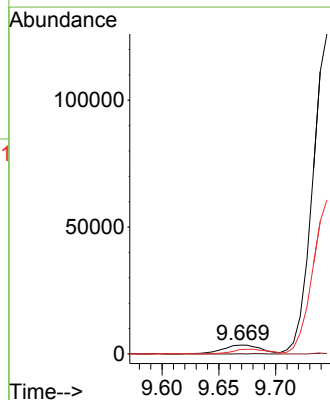
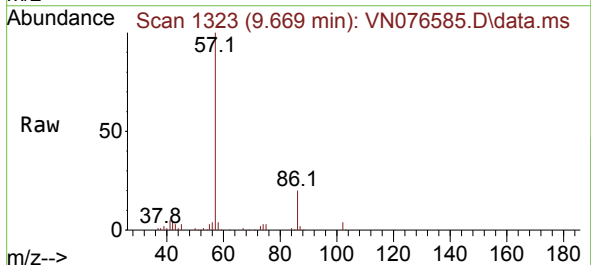
Instrument :  
MSVOA\_N  
ClientSampleId :  
JPP-22-020223

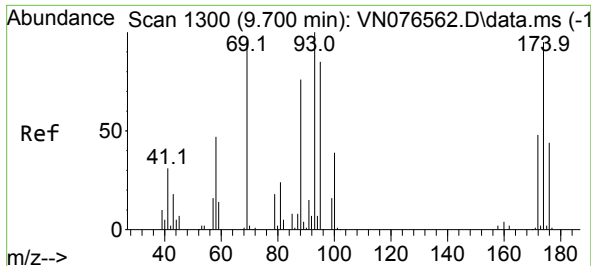
Tgt Ion: 63 Resp: 3875  
Ion Ratio Lower Upper  
63 100  
65 0.0 26.0 39.0#



#48  
Methyl methacrylate  
Concen: 1.257 ug/l  
RT: 9.669 min Scan# 1323  
Delta R.T. -0.014 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Tgt Ion: 41 Resp: 8429  
Ion Ratio Lower Upper  
41 100  
69 2.2 83.0 124.4#  
39 49.2 43.8 65.8





#49

1,4-Dioxane

Concen: 0.530 ug/l

RT: 9.669 min Scan# 11

Delta R.T. -0.031 min

Lab File: VN076585.D

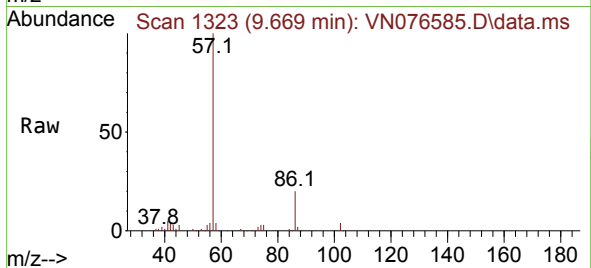
Acq: 08 Feb 2023 17:22

Instrument :

MSVOA\_N

ClientSampleId :

JPP-22-020223



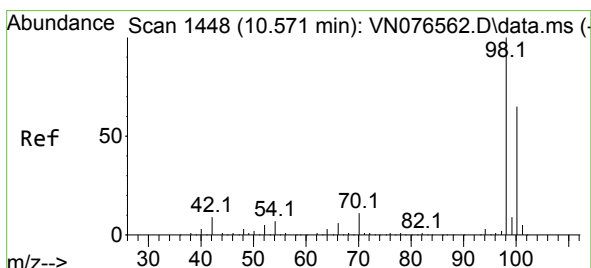
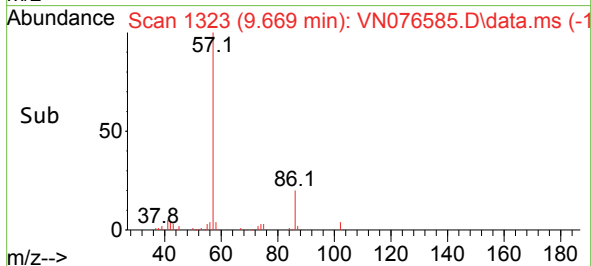
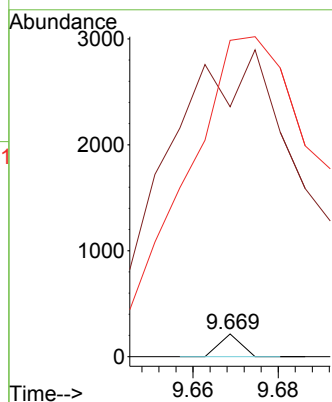
Tgt Ion: 88 Resp: 76

Ion Ratio Lower Upper

88 100

43 0.0 16.7 25.1#

58 9346.1 51.7 77.5#



#50

Toluene-d8

Concen: 49.333 ug/l

RT: 10.569 min Scan# 1476

Delta R.T. -0.002 min

Lab File: VN076585.D

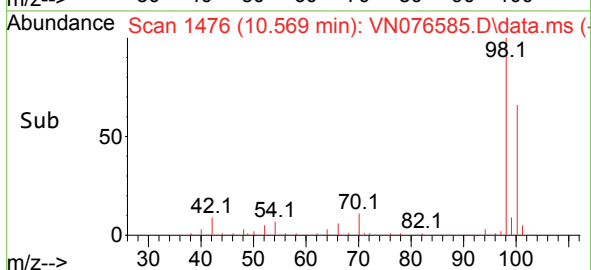
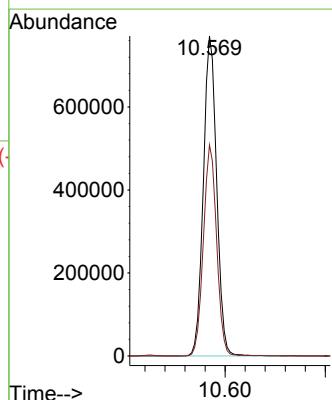
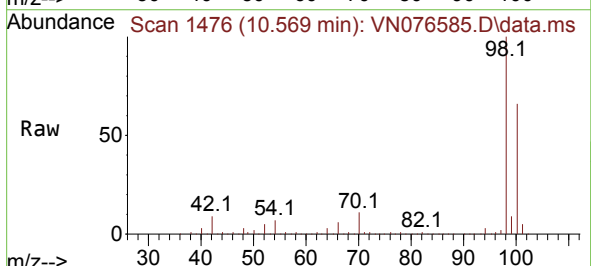
Acq: 08 Feb 2023 17:22

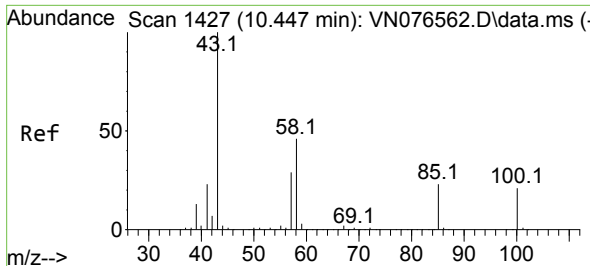
Tgt Ion: 98 Resp: 1421823

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 3.150 ug/l

RT: 10.451 min Scan# 1427

Delta R.T. 0.004 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

Instrument :

MSVOA\_N

ClientSampleId :

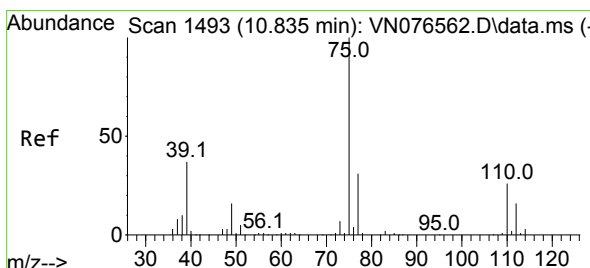
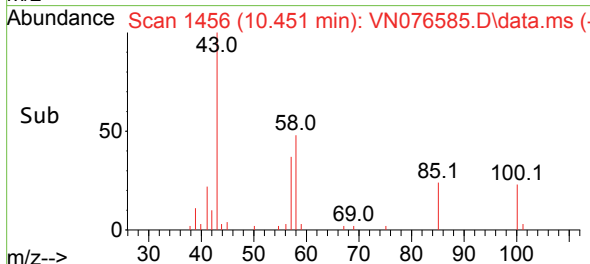
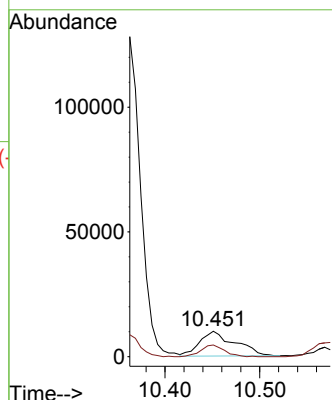
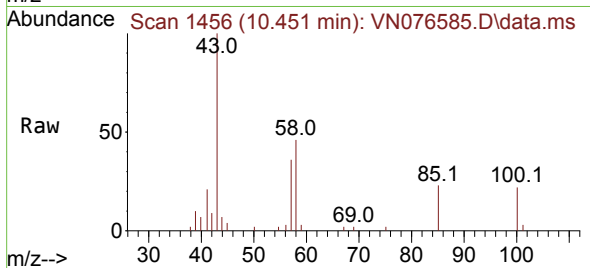
JPP-22-020223

Tgt Ion: 43 Resp: 25820

Ion Ratio Lower Upper

43 100

58 31.5 36.4 54.6#



#53

t-1,3-Dichloropropene

Concen: 0.229 ug/l

RT: 10.733 min Scan# 1504

Delta R.T. -0.102 min

Lab File: VN076585.D

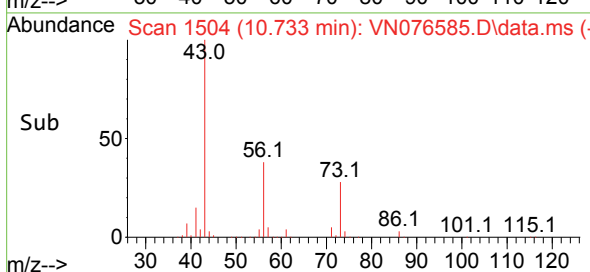
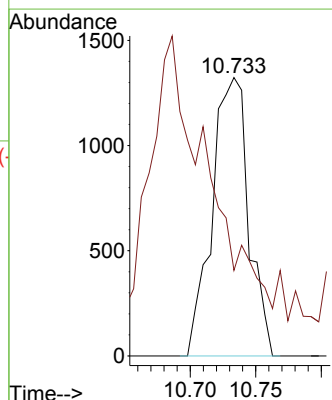
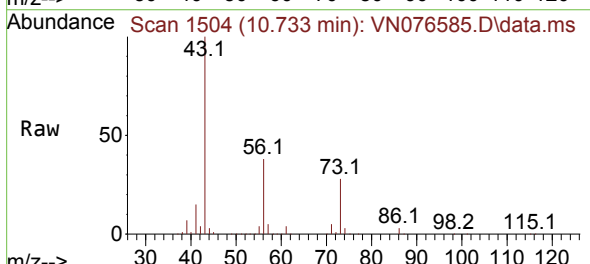
Acq: 08 Feb 2023 17:22

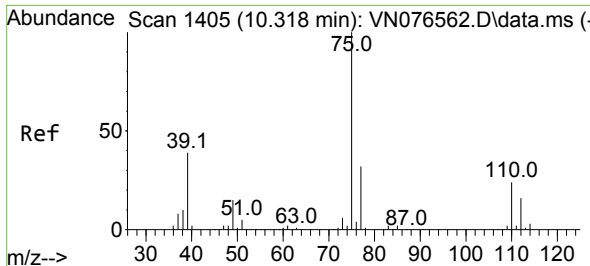
Tgt Ion: 75 Resp: 2557

Ion Ratio Lower Upper

75 100

77 0.1 24.5 36.7#

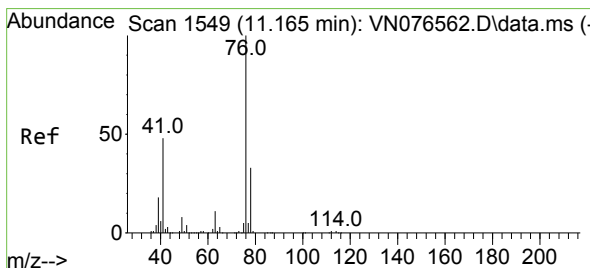
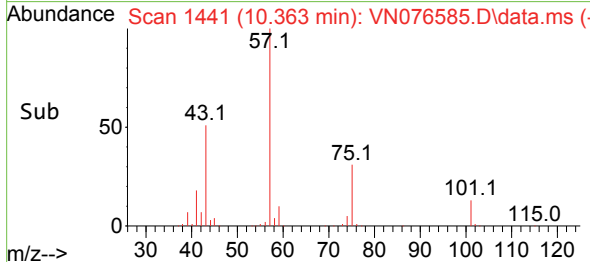
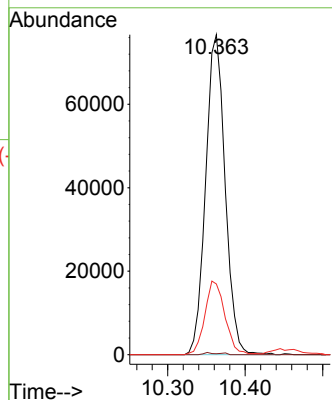
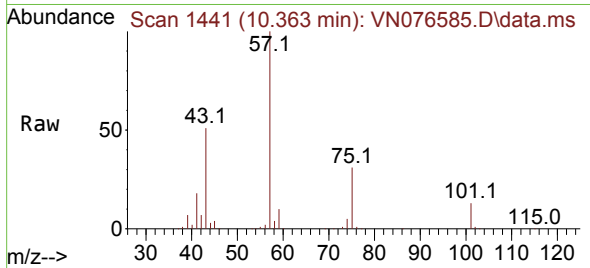




#54  
 cis-1,3-Dichloropropene  
 Concen: 10.503 ug/l  
 RT: 10.363 min Scan# 1405  
 Delta R.T. 0.045 min  
 Lab File: VN076585.D  
 Acq: 08 Feb 2023 17:22

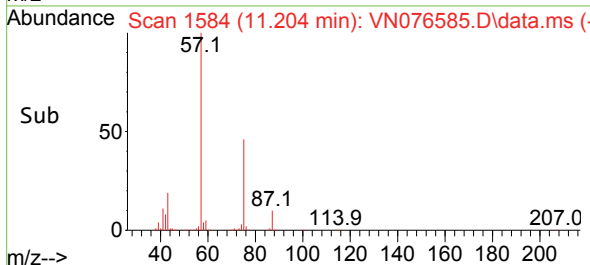
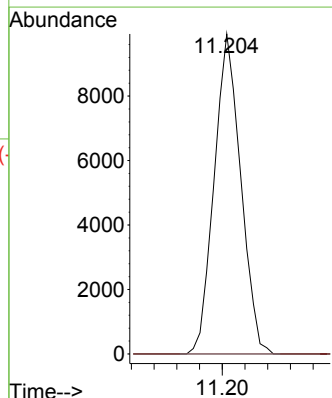
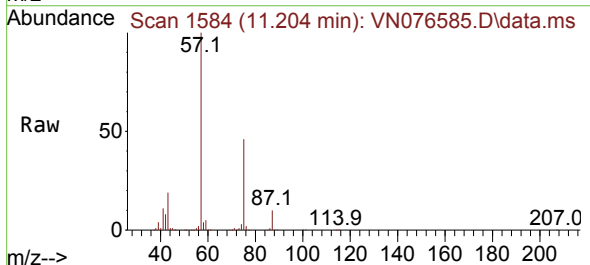
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 JPP-22-020223

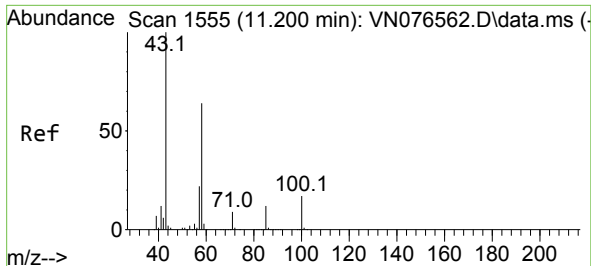
Tgt Ion: 75 Resp: 133686  
 Ion Ratio Lower Upper  
 75 100  
 77 0.3 25.4 38.0#  
 39 22.1 31.1 46.7#



#57  
 1,3-Dichloropropane  
 Concen: 1.188 ug/l  
 RT: 11.204 min Scan# 1584  
 Delta R.T. 0.039 min  
 Lab File: VN076585.D  
 Acq: 08 Feb 2023 17:22

Tgt Ion: 76 Resp: 16112  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.2 39.4#

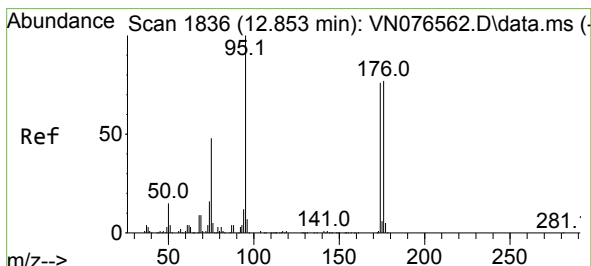
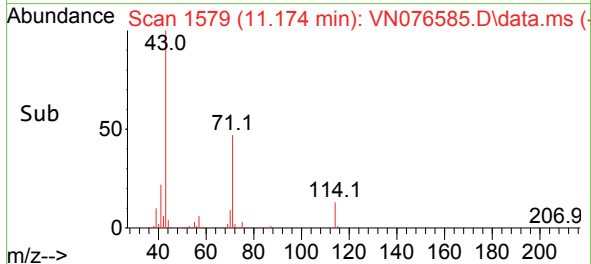
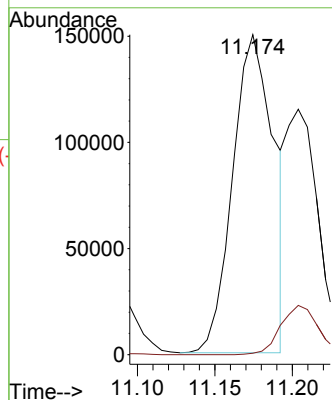
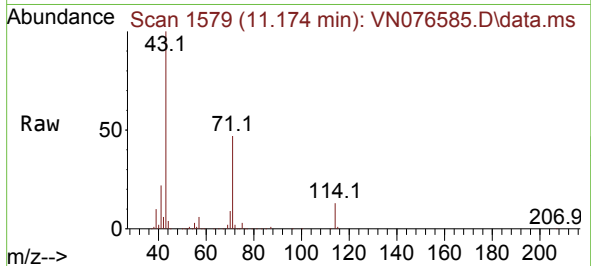




#59  
2-Hexanone  
Concen: 47.317 ug/l  
RT: 11.174 min Scan# 11174  
Delta R.T. -0.026 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

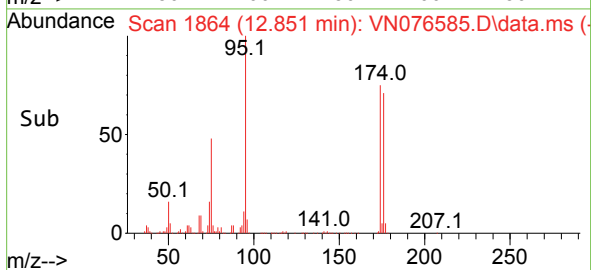
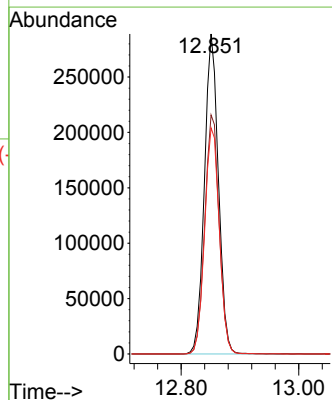
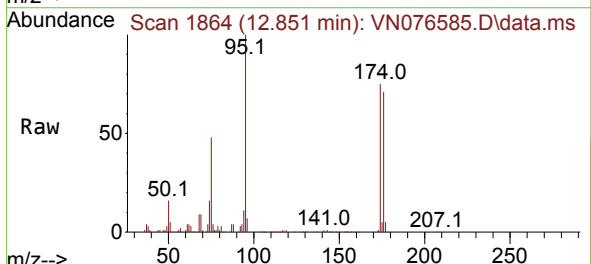
Instrument :  
MSVOA\_N  
ClientSampleId :  
JPP-22-020223

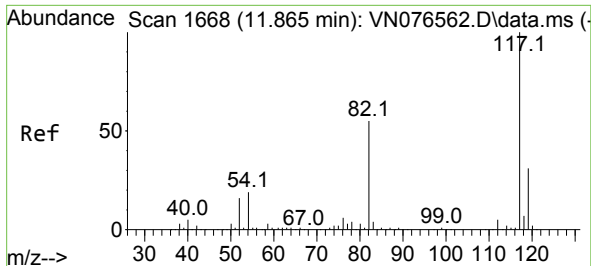
Tgt Ion: 43 Resp: 276463  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.8 95.4#



#62  
4-Bromofluorobenzene  
Concen: 47.041 ug/l  
RT: 12.851 min Scan# 1864  
Delta R.T. -0.002 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Tgt Ion: 95 Resp: 477630  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 154.0  
176 74.0 0.0 152.0

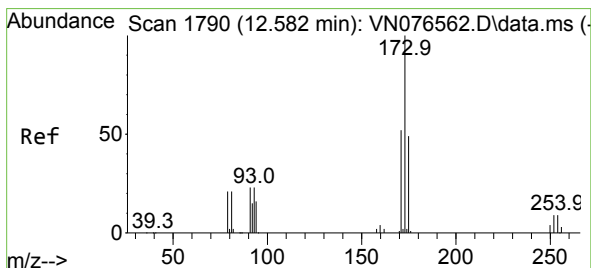
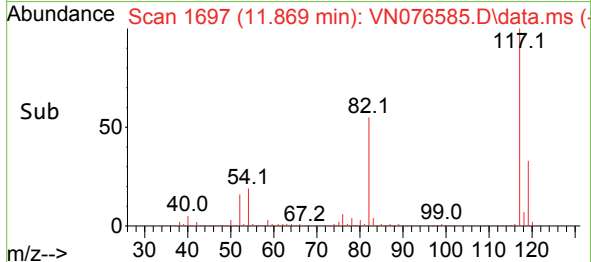
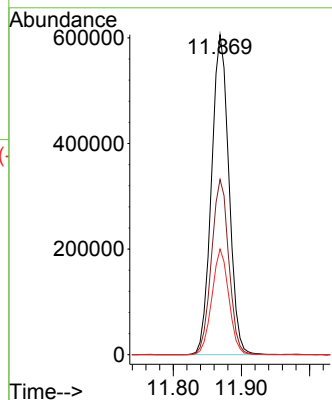
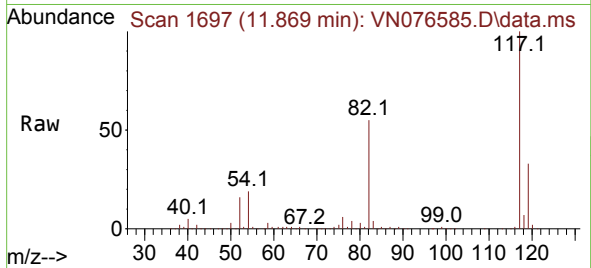




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.869 min Scan# 1177  
Delta R.T. 0.004 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

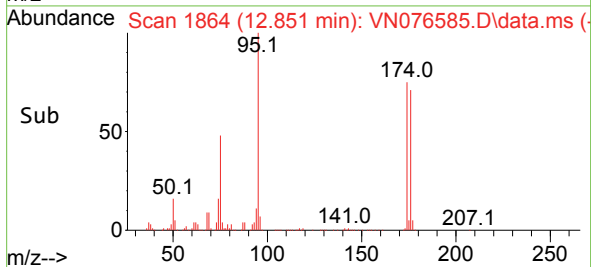
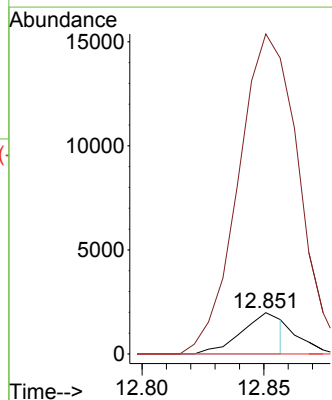
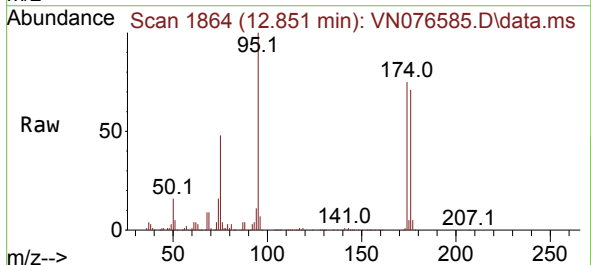
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MSVOA\_N  
ClientSampleId :  
JPP-22-020223

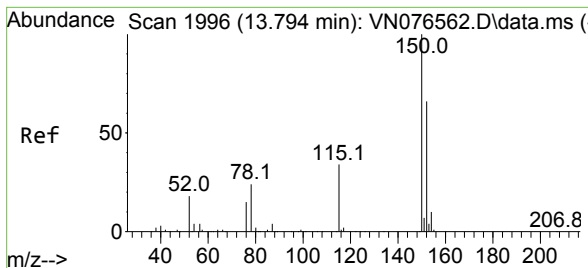
Tgt Ion:117 Resp: 1077085  
Ion Ratio Lower Upper  
117 100  
82 54.8 44.2 66.4  
119 33.0 25.1 37.7



#71  
Bromoform  
Concen: 0.403 ug/l  
RT: 12.851 min Scan# 1864  
Delta R.T. 0.269 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Tgt Ion:173 Resp: 2319  
Ion Ratio Lower Upper  
173 100  
175 858.1 24.8 74.3#  
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.792 min Scan# 20

Delta R.T. -0.002 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

Instrument :

MSVOA\_N

ClientSampleId :

JPP-22-020223

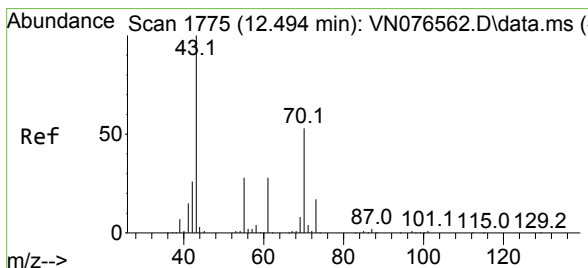
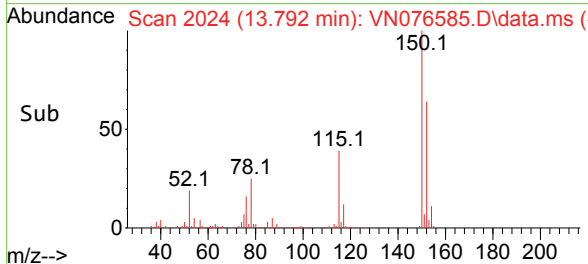
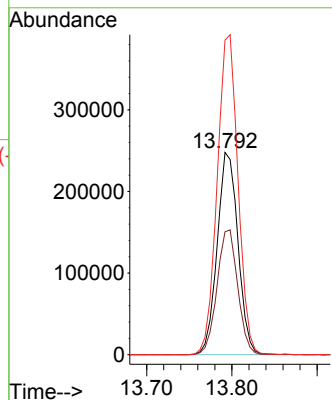
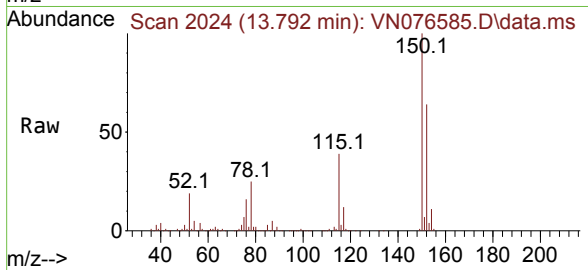
Tgt Ion:152 Resp: 419968

Ion Ratio Lower Upper

152 100

115 61.6 30.8 92.3

150 158.3 0.0 348.8



#74

N-ethyl acetate

Concen: 0.371 ug/l

RT: 12.492 min Scan# 1803

Delta R.T. -0.002 min

Lab File: VN076585.D

Acq: 08 Feb 2023 17:22

Tgt Ion: 43 Resp: 3558

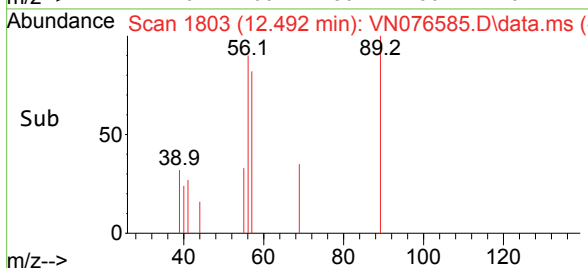
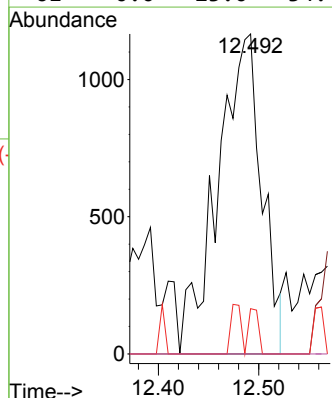
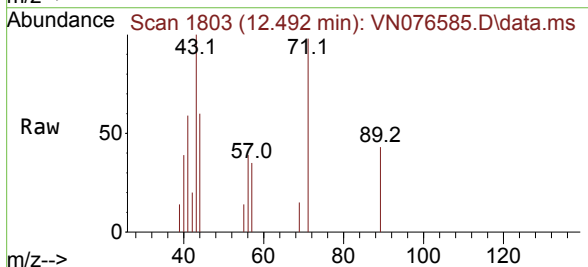
Ion Ratio Lower Upper

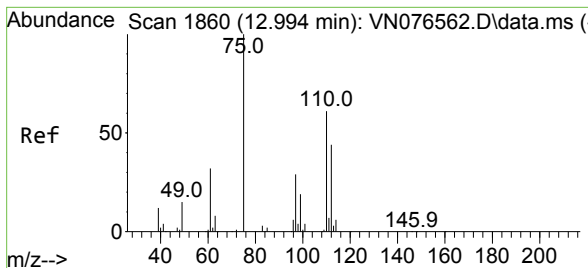
43 100

70 0.0 43.1 64.7#

55 3.2 22.4 33.6#

61 0.0 23.0 34.4#

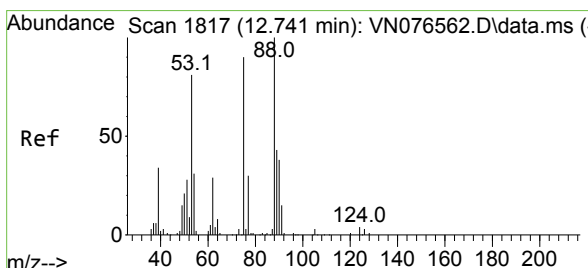
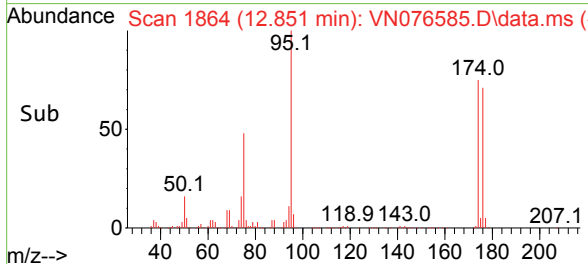
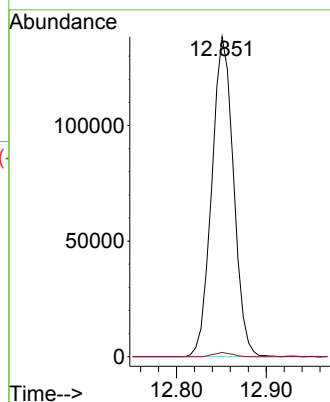
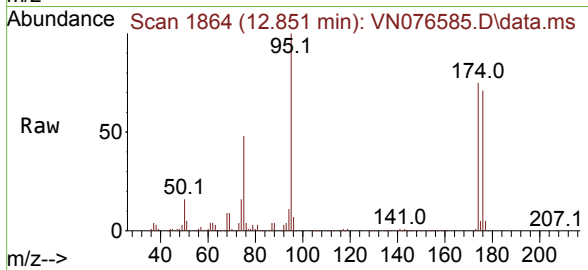




#76  
1,2,3-Trichloropropane  
Concen: 29.734 ug/l  
RT: 12.851 min Scan# 1864  
Delta R.T. -0.143 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
JPP-22-020223

Tgt Ion: 75 Resp: 232983  
Ion Ratio Lower Upper  
75 100  
77 1.1 87.5 262.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 91.303 ug/l  
RT: 12.851 min Scan# 1864  
Delta R.T. 0.110 min  
Lab File: VN076585.D  
Acq: 08 Feb 2023 17:22

Tgt Ion: 75 Resp: 232983  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.1 115.7#  
89 0.0 41.5 62.3#

