

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060324\  
 Data File : VN082446.D  
 Acq On : 03 Jun 2024 20:05  
 Operator : JC\MD  
 Sample : P2683-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

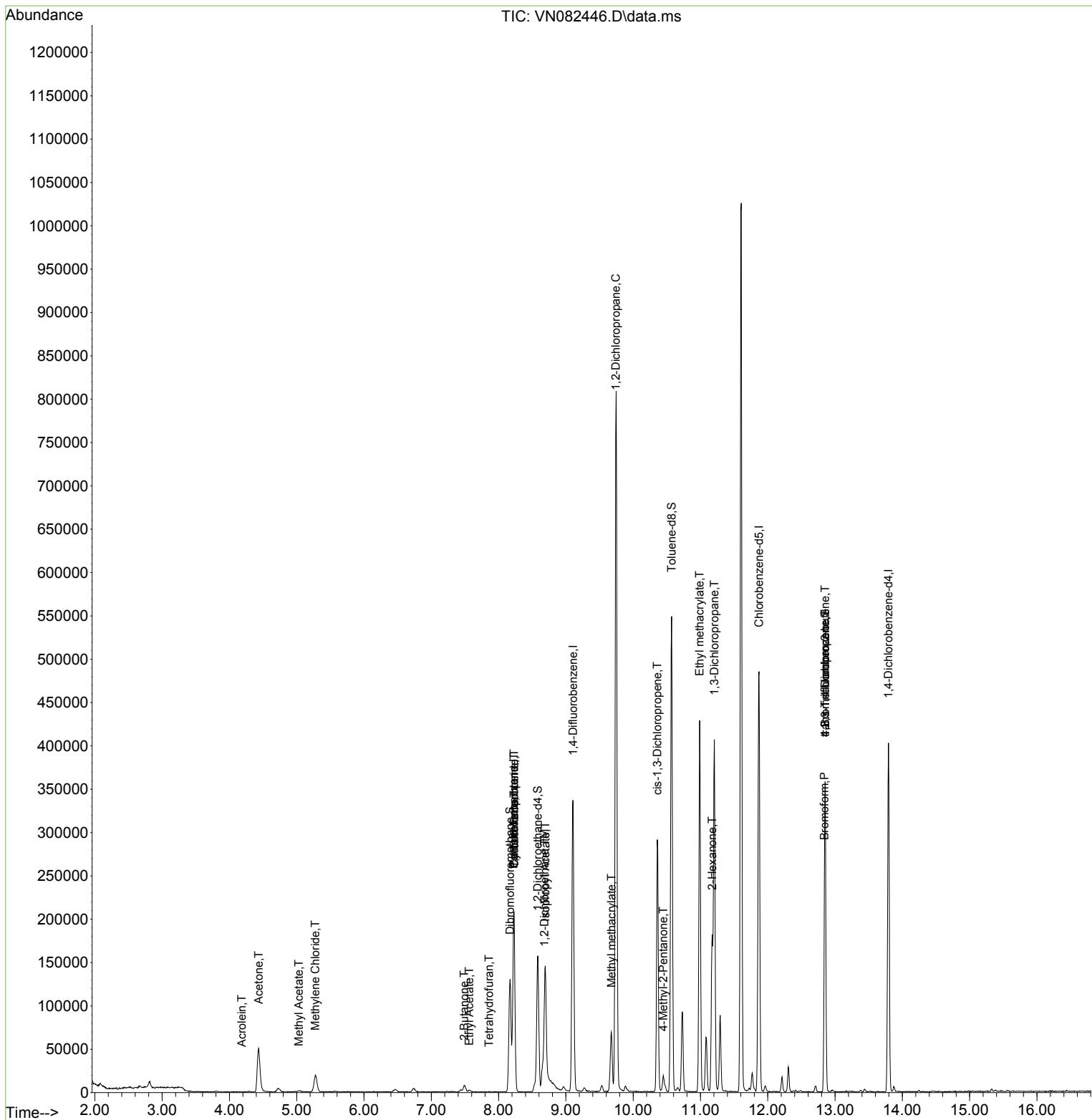
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 04 00:35:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 144336              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 265461              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 260687              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 102187              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 126633              | 55.563  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 111.120% |         |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 90982               | 55.715  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 111.420% |         |        |          |
| 50) Toluene-d8                | 10.570         | 98   | 350394              | 55.967  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 111.940% |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 113459              | 50.773  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 64 - 133 |      | Recovery = 101.540% |         |        |          |
| Target Compounds              |                |      |                     |         |        |          |
|                               |                |      |                     |         | Qvalue |          |
| 13) Acrolein                  | 4.183          | 56   | 154                 | 0.568   | ug/l # | 15       |
| 16) Acetone                   | 4.436          | 43   | 97297               | 104.069 | ug/l   | 90       |
| 18) Methyl Acetate            | 5.030          | 43   | 1758                | 0.755   | ug/l # | 55       |
| 20) Methylene Chloride        | 5.277          | 84   | 14435               | 7.652   | ug/l # | 85       |
| 25) 2-Butanone                | 7.488          | 43   | 14101               | 9.948   | ug/l # | 83       |
| 29) Tetrahydrofuran           | 7.859          | 42   | 267                 | 0.293   | ug/l # | 44       |
| 31) Cyclohexane               | 8.229          | 56   | 4398                | 1.208   | ug/l # | 59       |
| 36) 1,1-Dichloropropene       | 8.229          | 75   | 13749               | 5.020   | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.565          | 43   | 3471                | 1.132   | ug/l # | 75       |
| 38) Carbon Tetrachloride      | 8.229          | 117  | 15666               | 5.643   | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 8.682          | 62   | 732                 | 0.233   | ug/l # | 73       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 222070              | 40.889  | ug/l # | 72       |
| 45) 1,2-Dichloropropane       | 9.741          | 63   | 862                 | 0.409   | ug/l # | 45       |
| 48) Methyl methacrylate       | 9.676          | 41   | 4276                | 1.652   | ug/l # | 33       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 18312               | 5.934   | ug/l # | 73       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 45121               | 14.112  | ug/l # | 72       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 1538                | 0.509   | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206         | 76   | 3749                | 1.126   | ug/l # | 42       |
| 59) 2-Hexanone                | 11.176         | 43   | 208816              | 92.421  | ug/l # | 23       |
| 71) Bromoform                 | 12.841         | 173  | 1041                | 1.381   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 65902               | 30.641  | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 65902               | 71.668  | ug/l # | 12       |
| -----                         |                |      |                     |         |        |          |

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

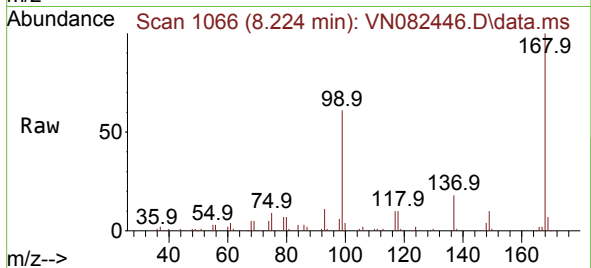
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 16 05:21:06 2024  
Response via : Initial Calibration



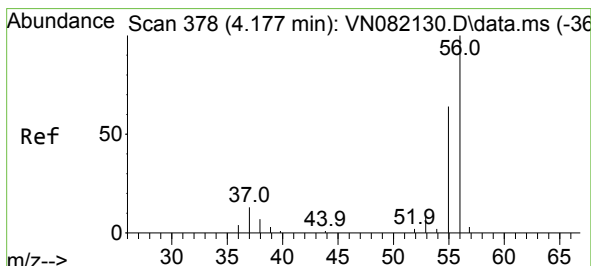
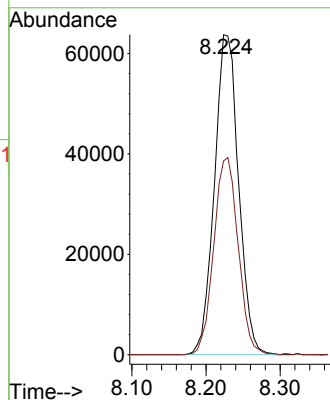
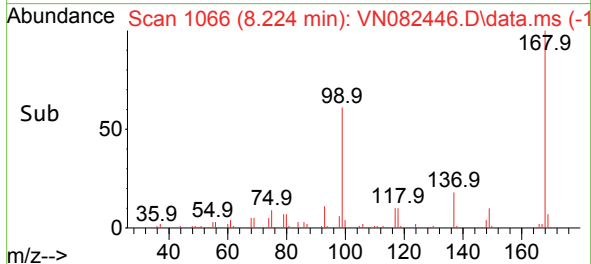


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Instrument :  
MSVOA\_N  
ClientSampleId :

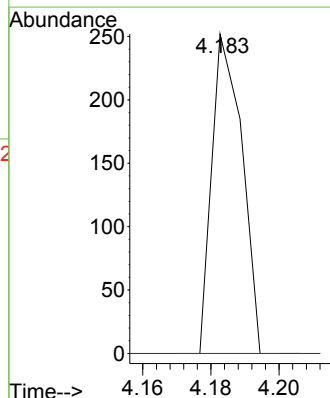
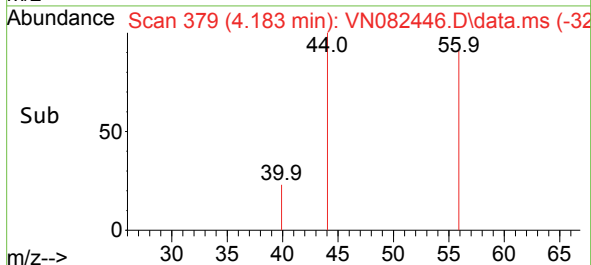
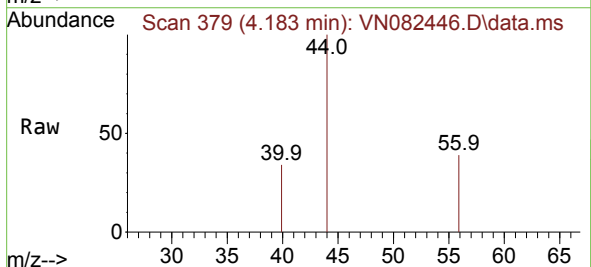


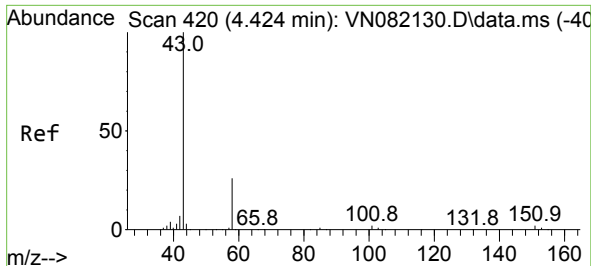
Tgt Ion:168 Resp: 144336  
Ion Ratio Lower Upper  
168 100  
99 60.5 48.2 72.4



#13  
Acrolein  
Concen: 0.568 ug/l  
RT: 4.183 min Scan# 379  
Delta R.T. 0.006 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Tgt Ion: 56 Resp: 154  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.8 83.8#

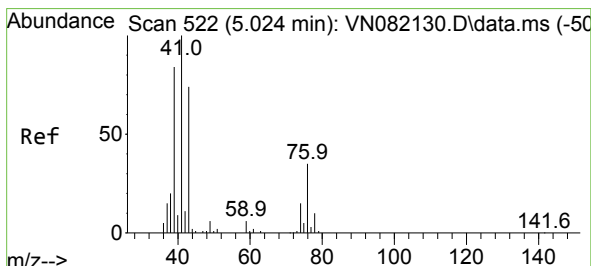
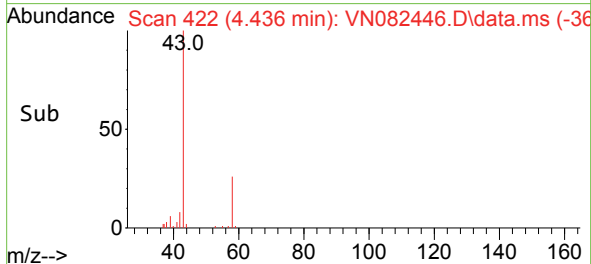
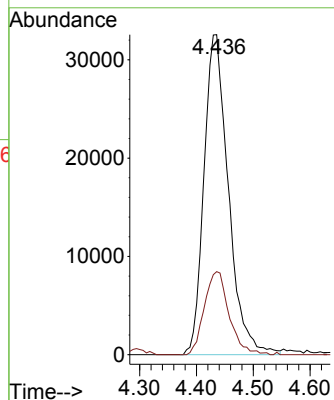
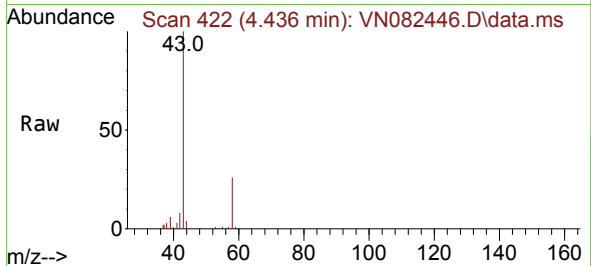




#16  
Acetone  
Concen: 104.069 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

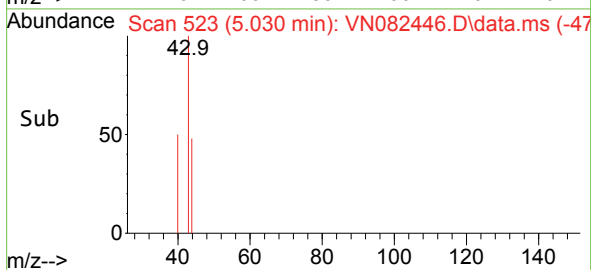
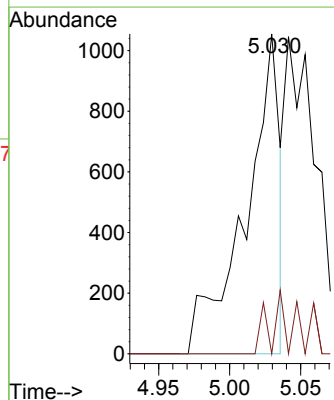
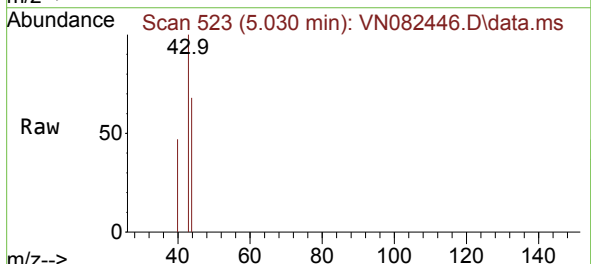
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 43 Resp: 97297  
Ion Ratio Lower Upper  
43 100  
58 26.0 25.2 37.8



#18  
Methyl Acetate  
Concen: 0.755 ug/l  
RT: 5.030 min Scan# 523  
Delta R.T. 0.006 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

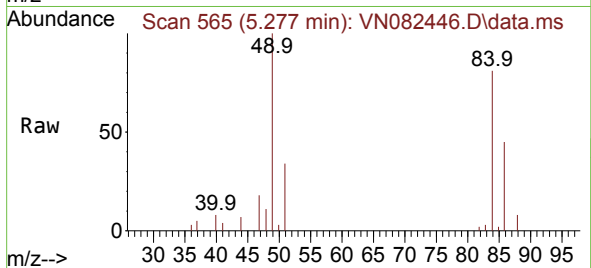
Tgt Ion: 43 Resp: 1758  
Ion Ratio Lower Upper  
43 100  
74 4.2 22.2 33.2#



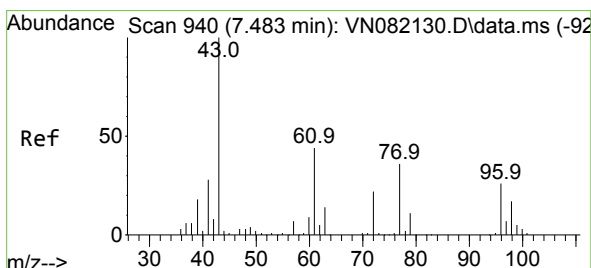
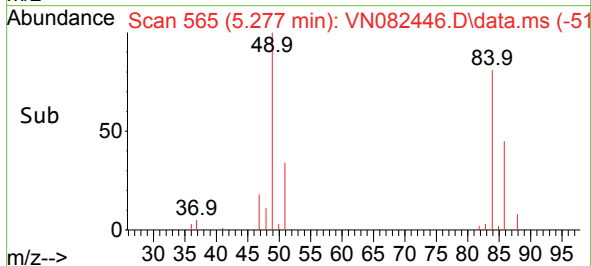
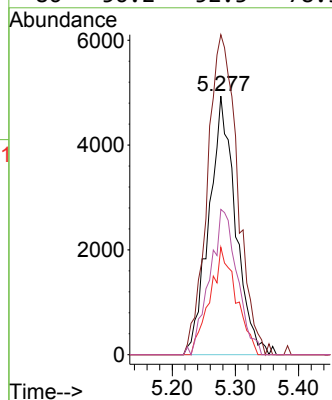


#20  
Methylene Chloride  
Concen: 7.652 ug/l  
RT: 5.277 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Instrument :  
MSVOA\_N  
ClientSampleId :

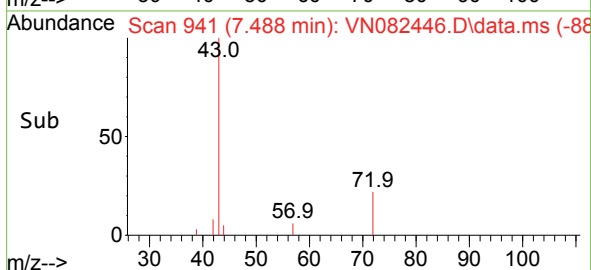
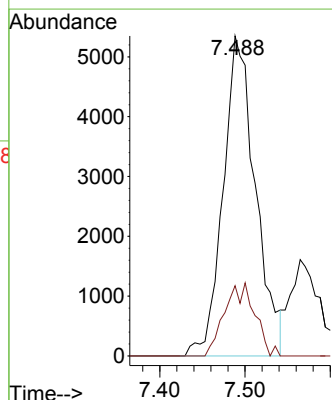
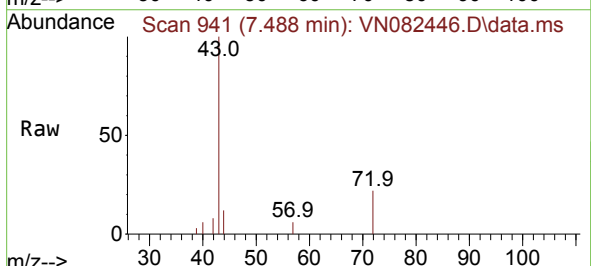


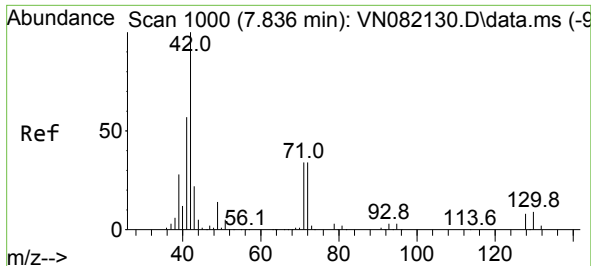
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 14435 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 123.8    | 84.9 127.3  |
| 51 41.5     | 27.0 40.6#  |
| 86 56.2     | 52.3 78.5   |



#25  
2-Butanone  
Concen: 9.948 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 14101 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 72 21.9     | 25.3 37.9#  |





#29

Tetrahydrofuran

Concen: 0.293 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.023 min

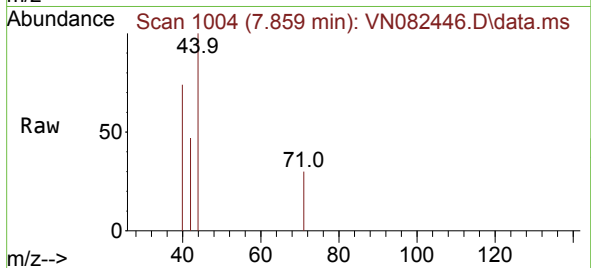
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Acq: 03 Jun 2024 20:05

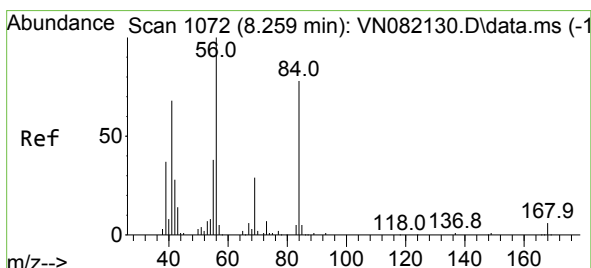
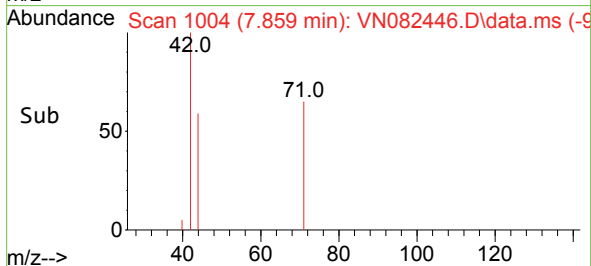
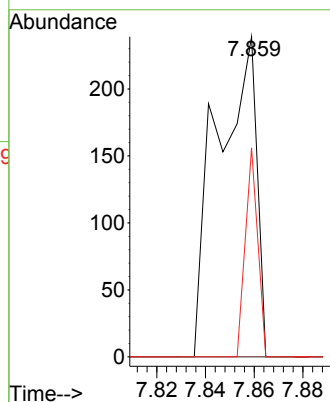
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 267   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 39.3  | 58.9# |
| 71       | 20.6  | 37.4  | 56.0# |



#31

Cyclohexane

Concen: 1.208 ug/l

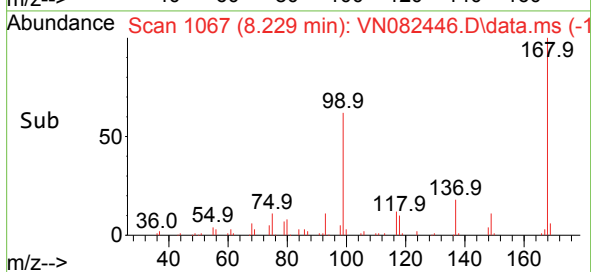
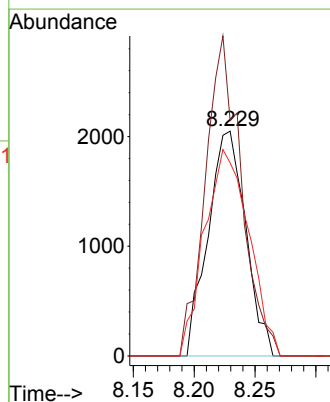
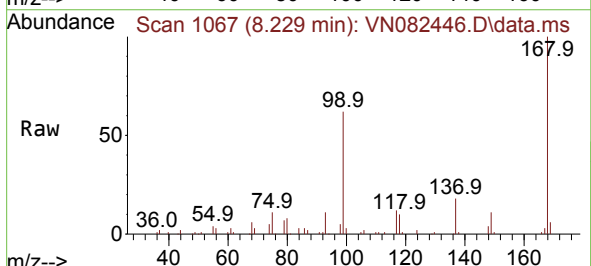
RT: 8.229 min Scan# 1067

Delta R.T. -0.030 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 4398  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 104.7 | 24.4  | 36.6# |
| 84       | 85.9  | 77.0  | 115.4 |





#33

1,2-Dichloroethane-d4

Concen: 55.563 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

Instrument :

MSVOA\_N

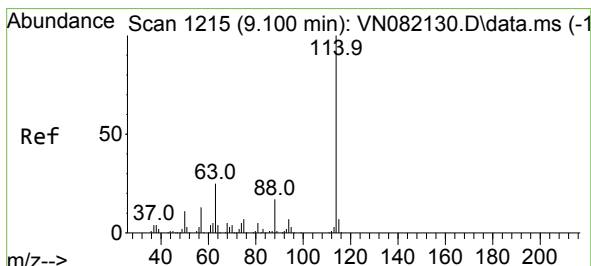
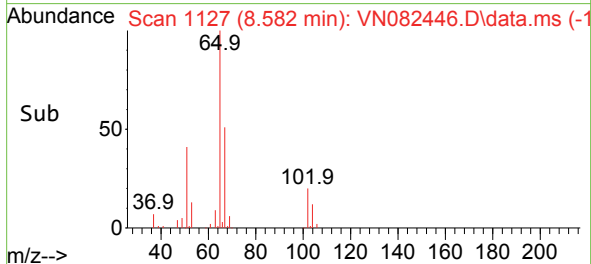
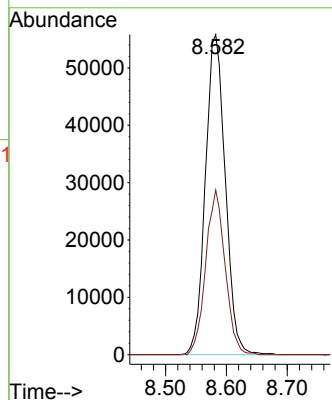
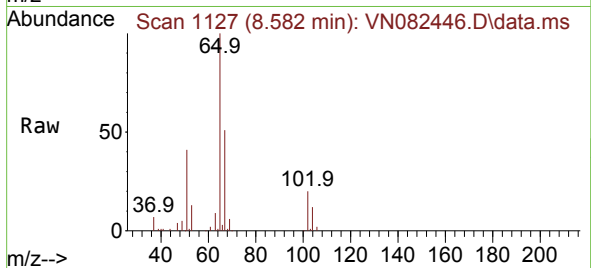
ClientSampleId :

Tgt Ion: 65 Resp: 126633

Ion Ratio Lower Upper

65 100

67 50.2 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

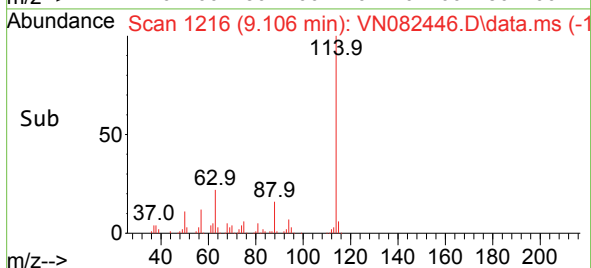
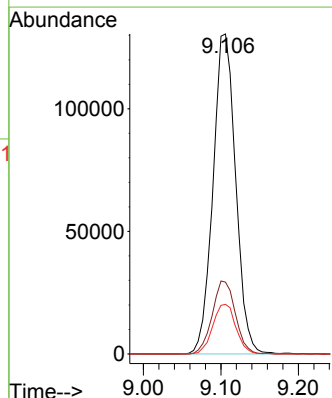
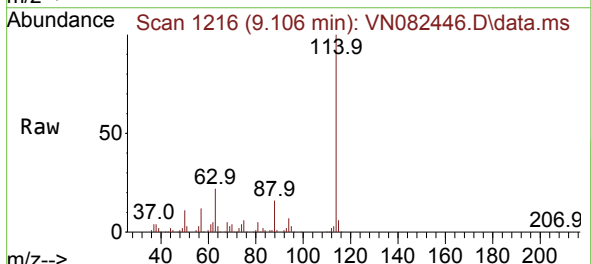
Tgt Ion: 114 Resp: 265461

Ion Ratio Lower Upper

114 100

63 22.4 0.0 41.0

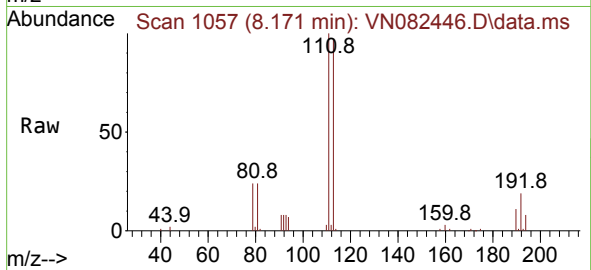
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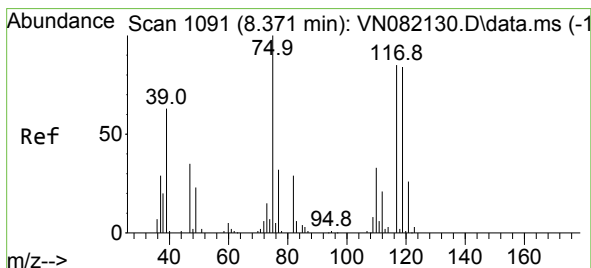
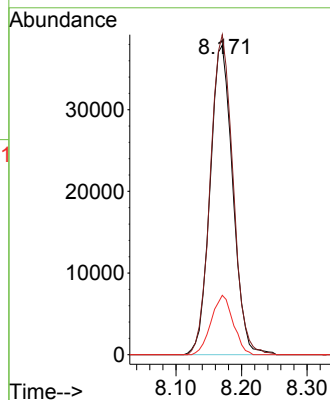
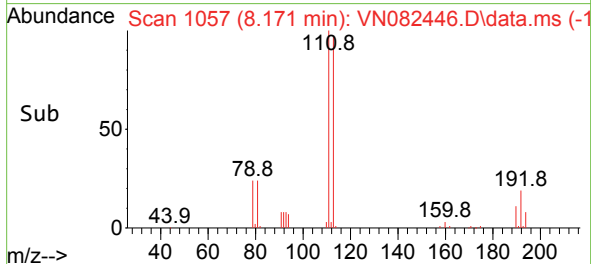


#35  
 Dibromofluoromethane  
 Concen: 55.715 ug/l  
 RT: 8.171 min Scan# 1056  
 Delta R.T. 0.006 min  
 Lab File: VN082446.D  
 Acq: 03 Jun 2024 20:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :

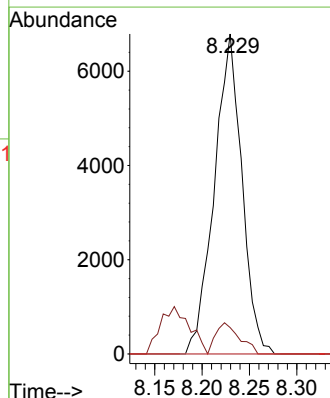
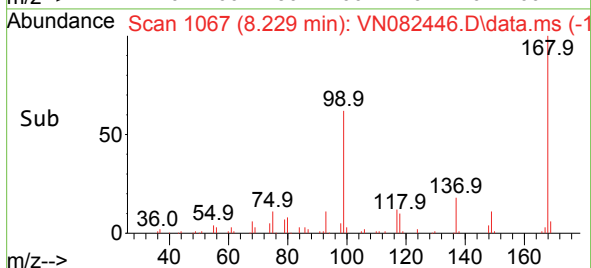
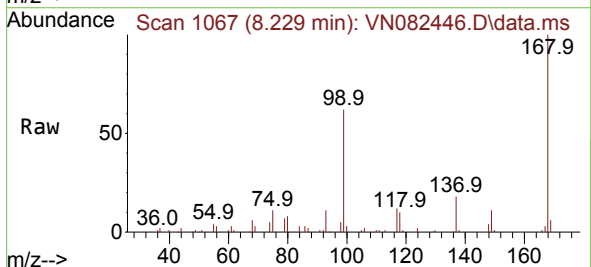


Tgt Ion:113 Resp: 90982  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 83.4 125.2  
 192 18.6 14.0 21.0



#36  
 1,1-Dichloropropene  
 Concen: 5.020 ug/l  
 RT: 8.229 min Scan# 1067  
 Delta R.T. -0.141 min  
 Lab File: VN082446.D  
 Acq: 03 Jun 2024 20:05

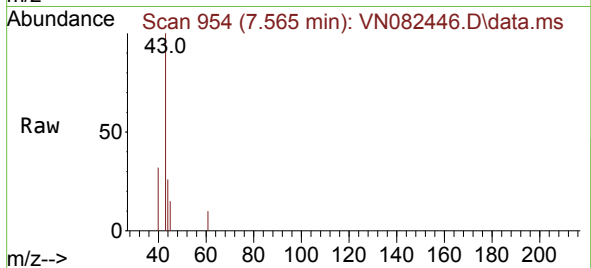
Tgt Ion: 75 Resp: 13749  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 17.8 53.5#  
 77 0.0 25.0 37.4#



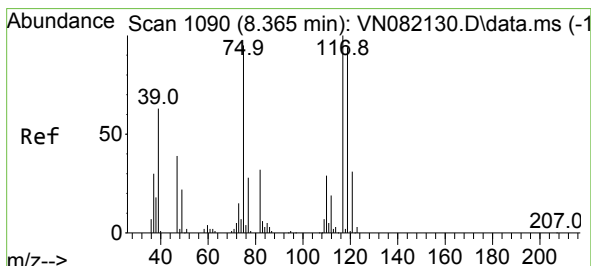
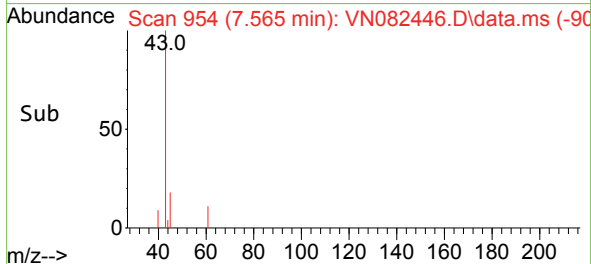
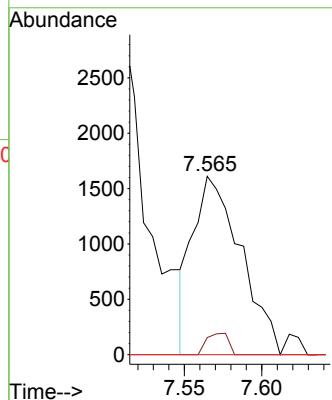


#37  
Ethyl Acetate  
Concen: 1.132 ug/l  
RT: 7.565 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Instrument :  
MSVOA\_N  
ClientSampleId :

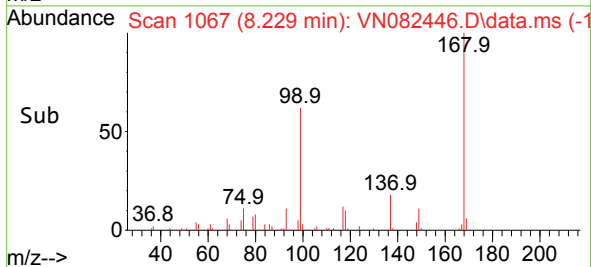
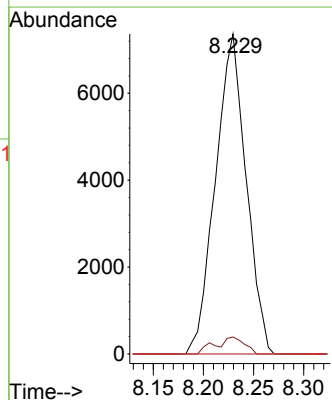
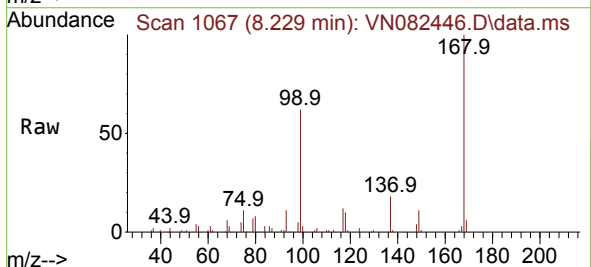


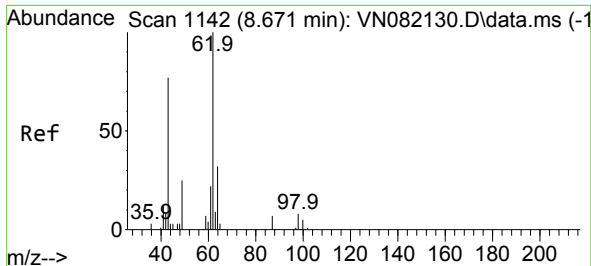
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Ion Ratio Lower Upper  
43 100  
61 5.4 11.3 16.9#  
70 0.0 8.7 13.1#



#38  
Carbon Tetrachloride  
Concen: 5.643 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.135 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Tgt Ion: 117 Resp: 15666  
Ion Ratio Lower Upper  
117 100  
119 5.3 76.5 114.7#  
121 0.0 23.9 35.9#





#42

1,2-Dichloroethane

Concen: 0.233 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

Instrument :

MSVOA\_N

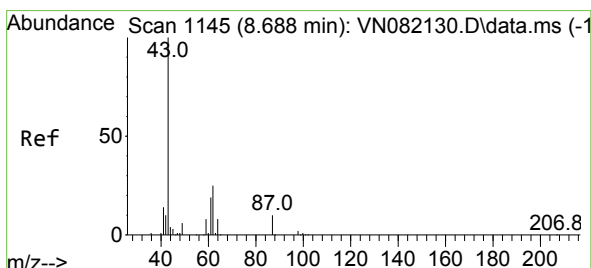
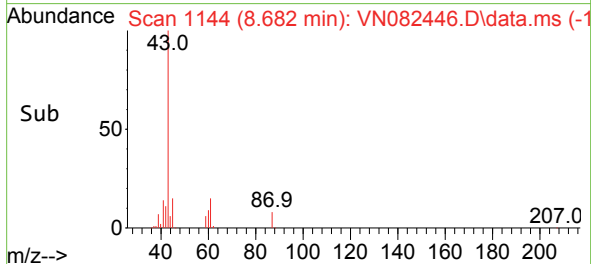
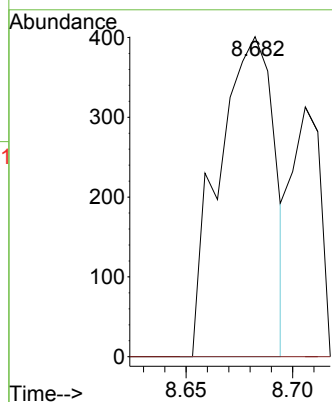
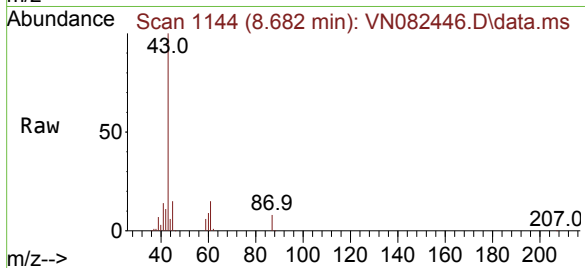
ClientSampleId :

Tgt Ion: 62 Resp: 732

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 40.889 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

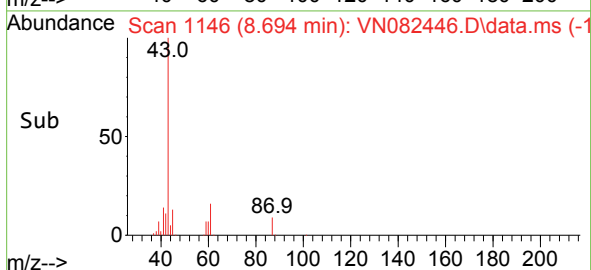
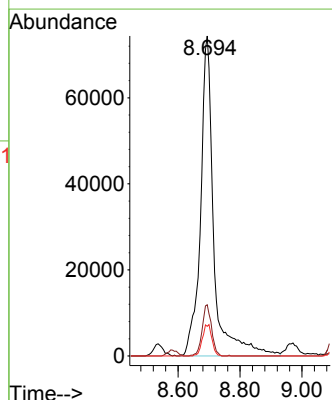
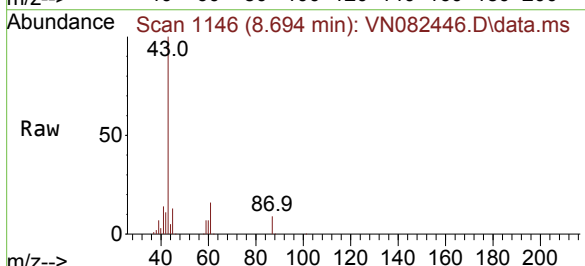
Tgt Ion: 43 Resp: 222070

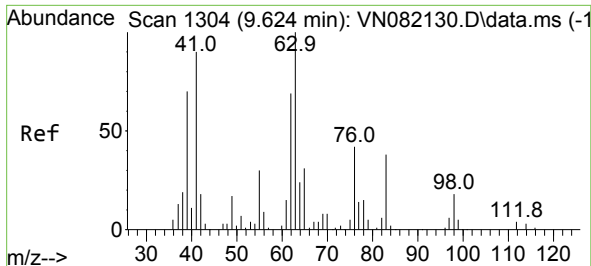
Ion Ratio Lower Upper

43 100

61 11.3 22.8 34.2#

87 7.0 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.409 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

Instrument :

MSVOA\_N

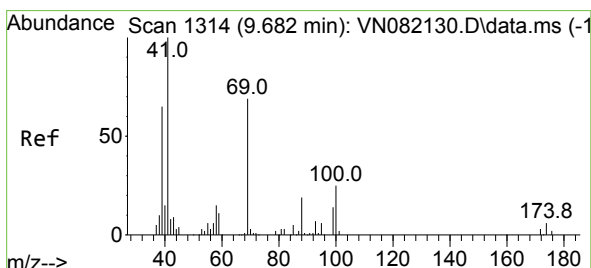
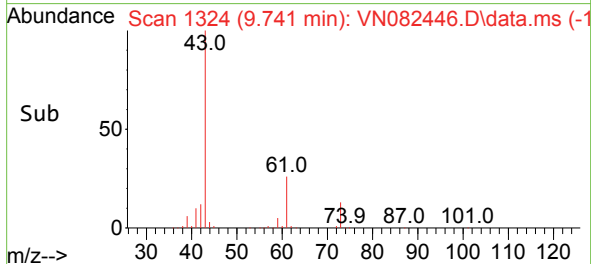
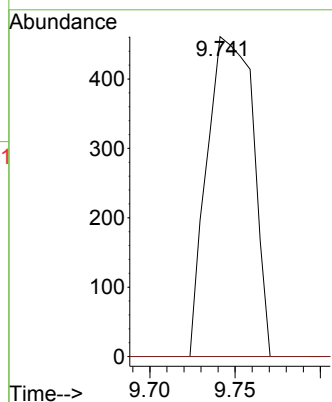
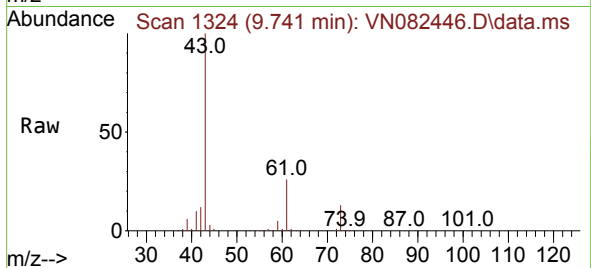
ClientSampleId :

Tgt Ion: 63 Resp: 862

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



#48

Methyl methacrylate

Concen: 1.652 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.006 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

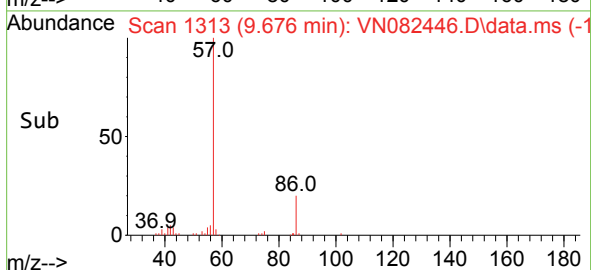
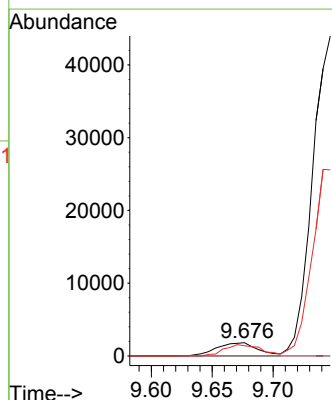
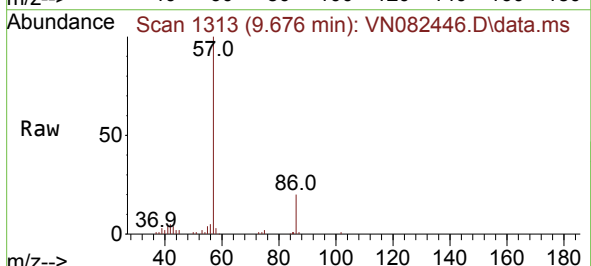
Tgt Ion: 41 Resp: 4276

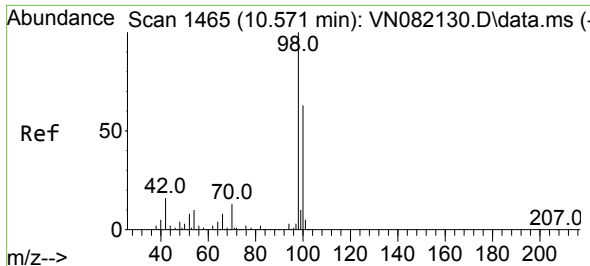
Ion Ratio Lower Upper

41 100

69 0.0 77.9 116.9#

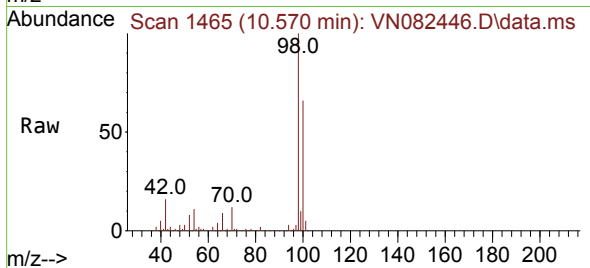
39 77.8 50.9 76.3#



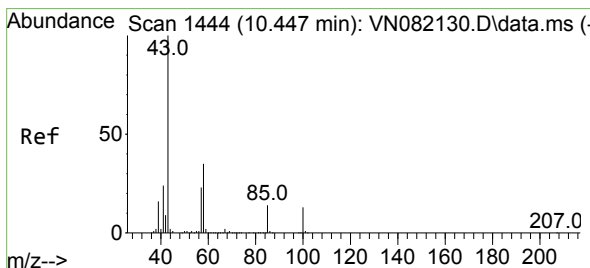
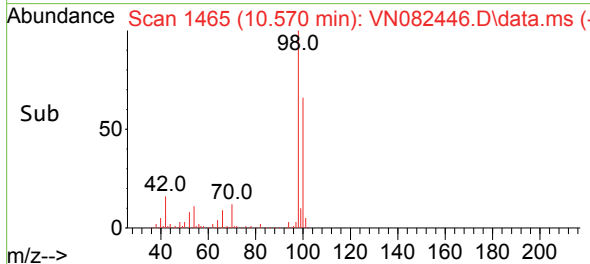
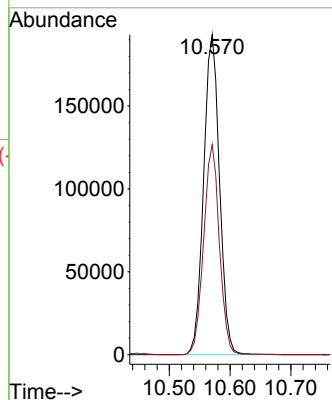


#50  
Toluene-d8  
Concen: 55.967 ug/l  
RT: 10.570 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Instrument :  
MSVOA\_N  
ClientSampleId :

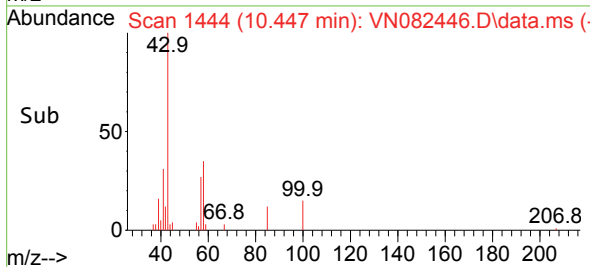
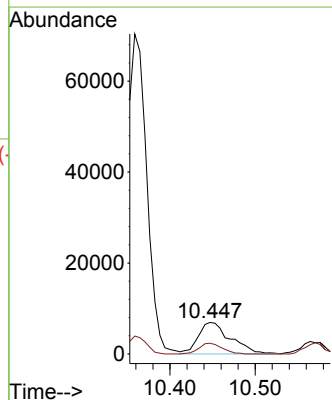
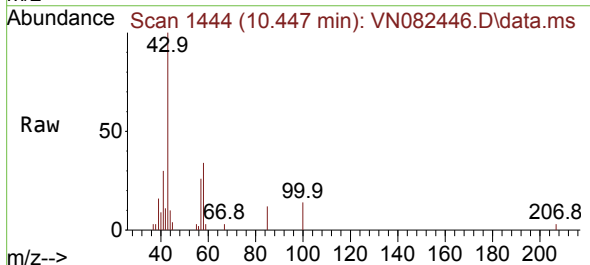


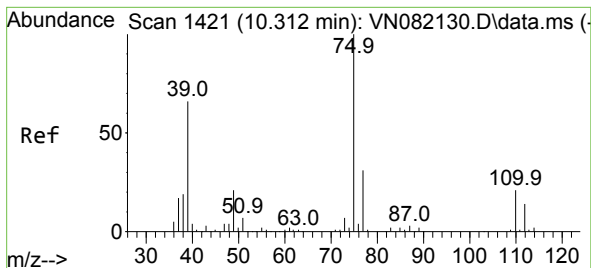
Tgt Ion: 98 Resp: 350394  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 5.934 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Tgt Ion: 43 Resp: 18312  
Ion Ratio Lower Upper  
43 100  
58 24.4 33.2 49.8#

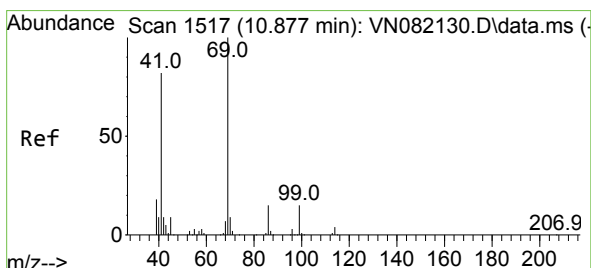
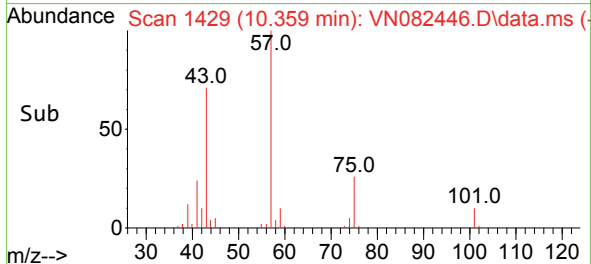
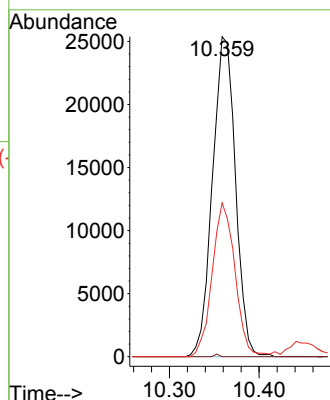
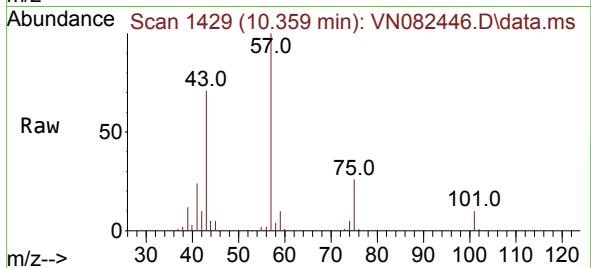




#54  
 cis-1,3-Dichloropropene  
 Concen: 14.112 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.047 min  
 Lab File: VN082446.D  
 Acq: 03 Jun 2024 20:05

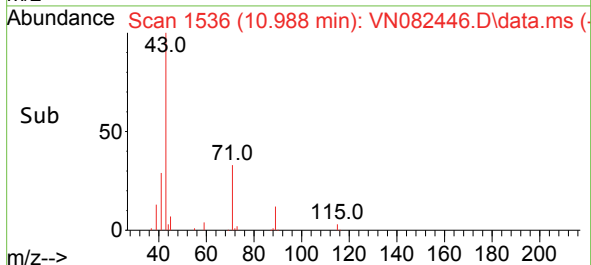
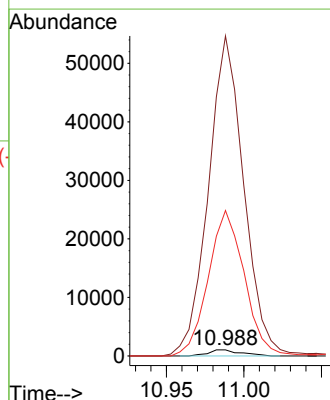
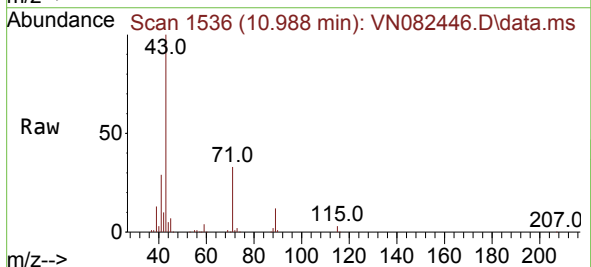
Instrument :  
 MSVOA\_N  
 ClientSampleId :

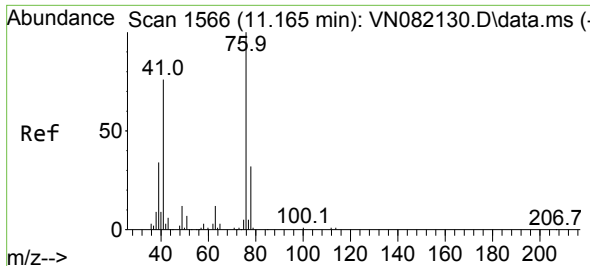
Tgt Ion: 75 Resp: 45121  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.0 37.4#  
 39 48.1 34.8 52.2



#56  
 Ethyl methacrylate  
 Concen: 0.509 ug/l  
 RT: 10.988 min Scan# 1536  
 Delta R.T. 0.112 min  
 Lab File: VN082446.D  
 Acq: 03 Jun 2024 20:05

Tgt Ion: 69 Resp: 1538  
 Ion Ratio Lower Upper  
 69 100  
 41 5657.5 46.6 70.0#  
 39 2624.9 26.5 39.7#





#57

1,3-Dichloropropane

Concen: 1.126 ug/l

RT: 11.206 min Scan# 1

Delta R.T. 0.041 min

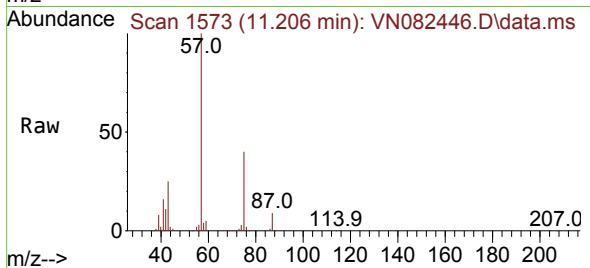
Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

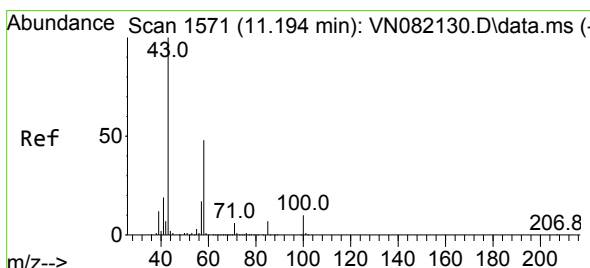
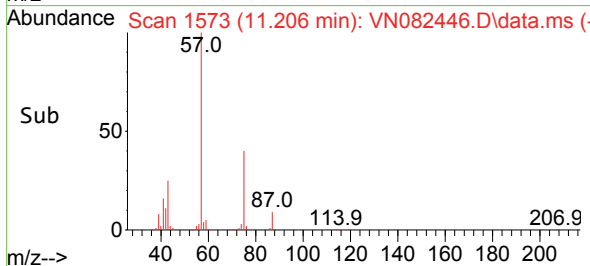
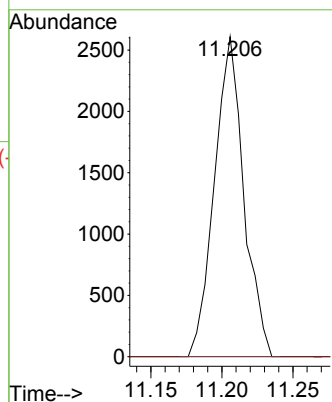


Tgt Ion: 76 Resp: 3749

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 92.421 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.018 min

Lab File: VN082446.D

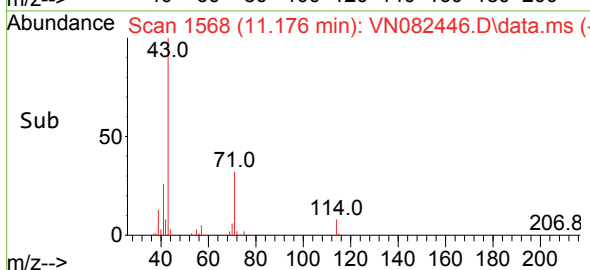
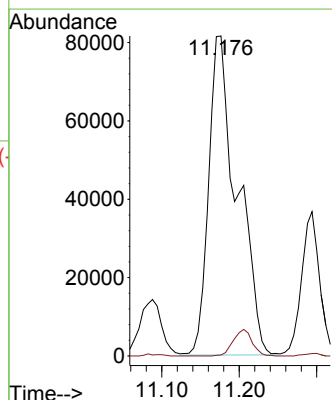
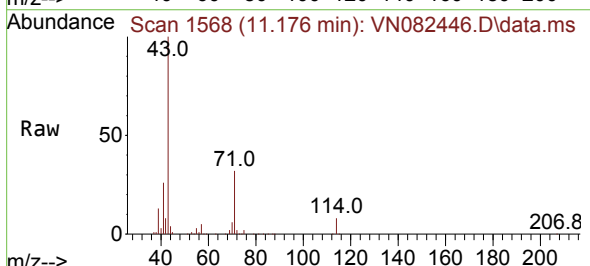
Acq: 03 Jun 2024 20:05

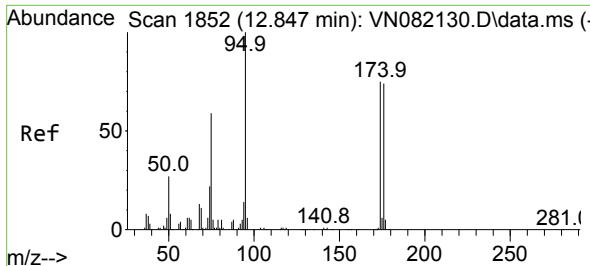
Tgt Ion: 43 Resp: 208816

Ion Ratio Lower Upper

43 100

58 0.0 28.3 84.9#

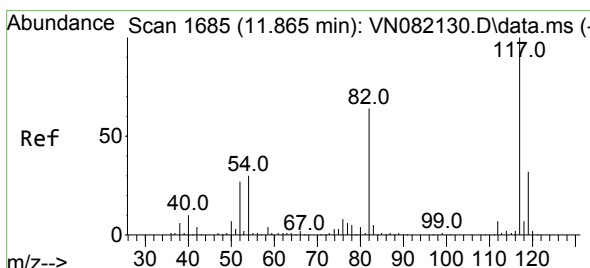
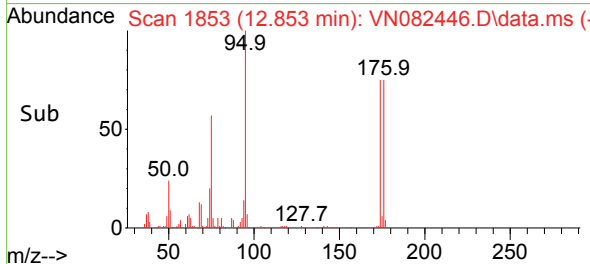
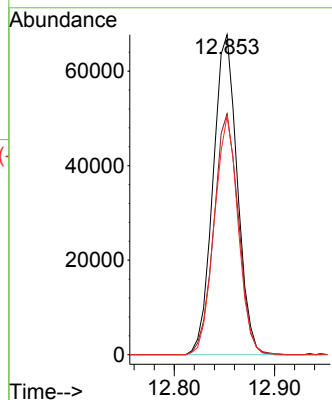
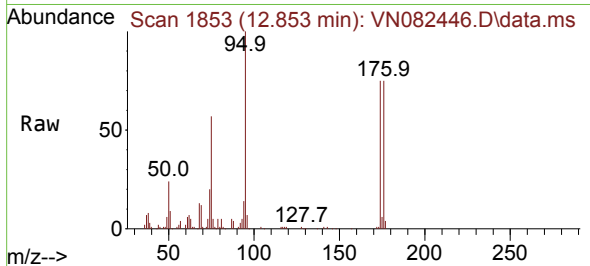




#62  
4-Bromofluorobenzene  
Concen: 50.773 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

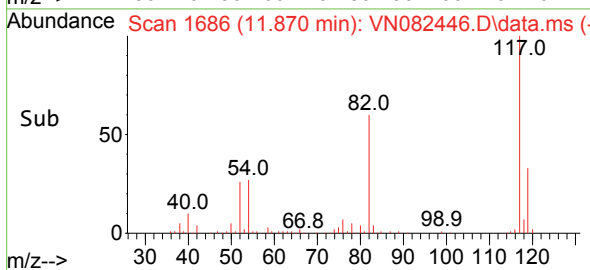
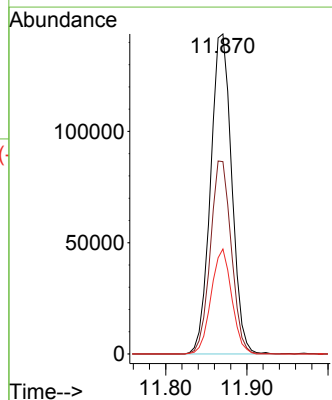
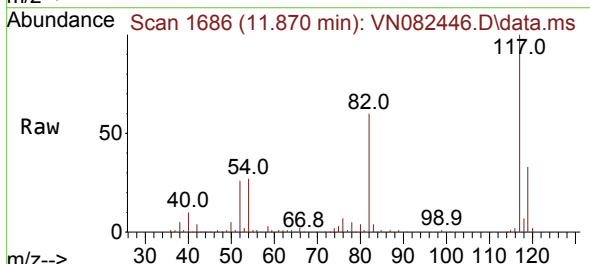
Instrument :  
MSVOA\_N  
ClientSampleId :

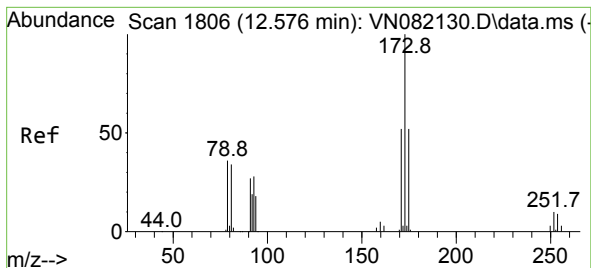
Tgt Ion: 95 Resp: 113459  
Ion Ratio Lower Upper  
95 100  
174 76.7 0.0 160.6  
176 73.3 0.0 152.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN082446.D  
Acq: 03 Jun 2024 20:05

Tgt Ion: 117 Resp: 260687  
Ion Ratio Lower Upper  
117 100  
82 60.1 44.6 66.8  
119 32.8 25.9 38.9





#71

Bromoform

Concen: 1.381 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

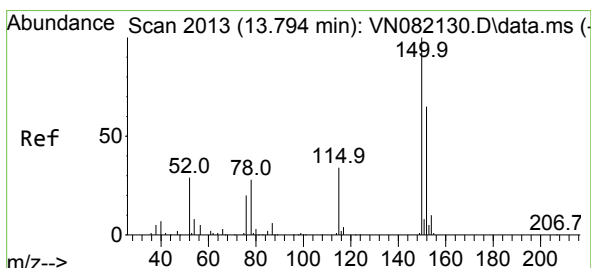
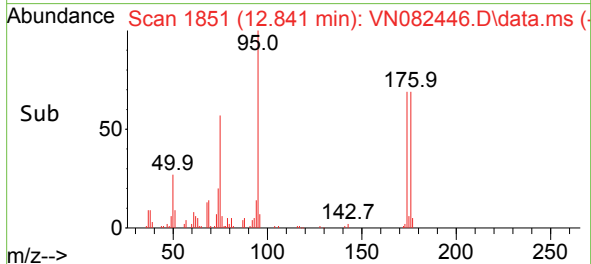
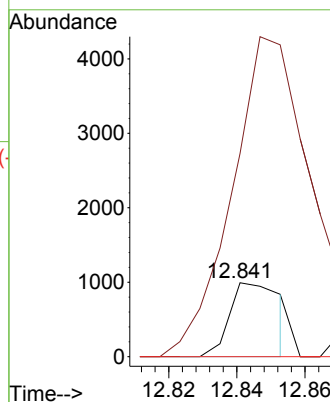
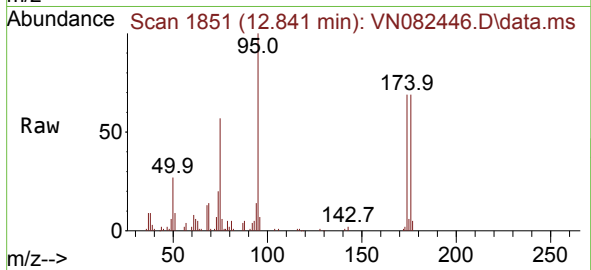
Tgt Ion:173 Resp: 1041

Ion Ratio Lower Upper

173 100

175 458.6 24.6 74.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

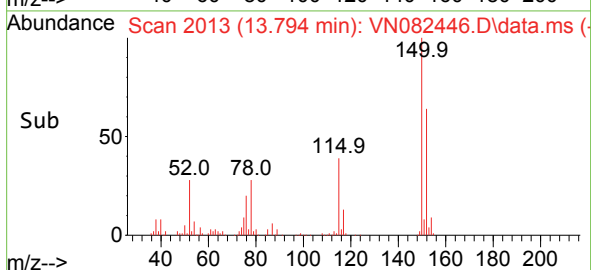
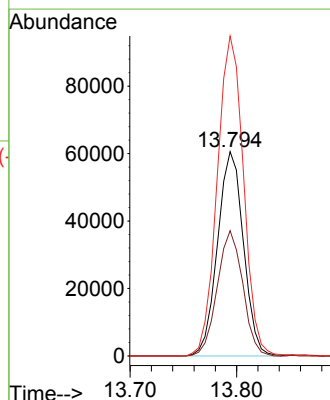
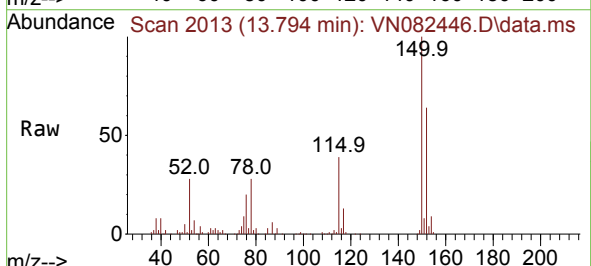
Tgt Ion:152 Resp: 102187

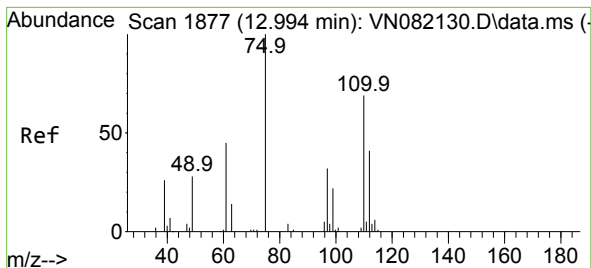
Ion Ratio Lower Upper

152 100

115 60.3 30.4 91.3

150 158.8 0.0 353.2





#76

1,2,3-Trichloropropane

Concen: 30.641 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

Instrument :

MSVOA\_N

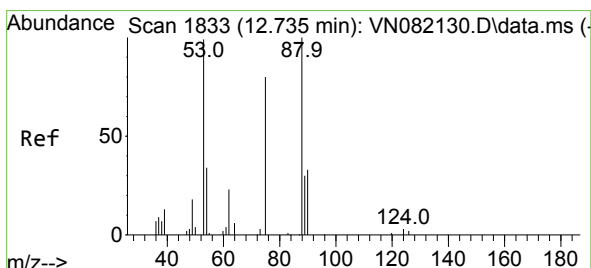
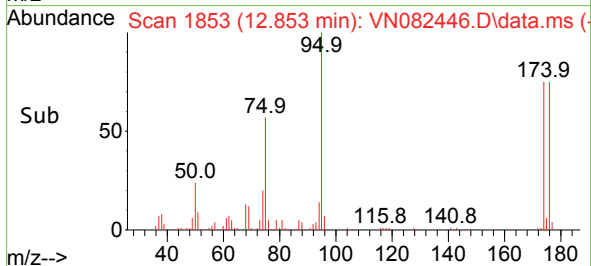
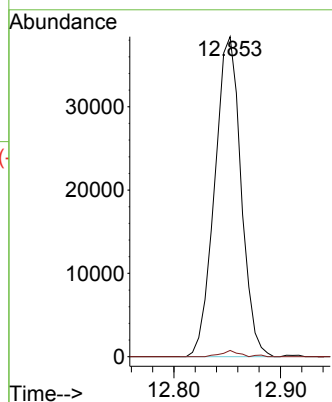
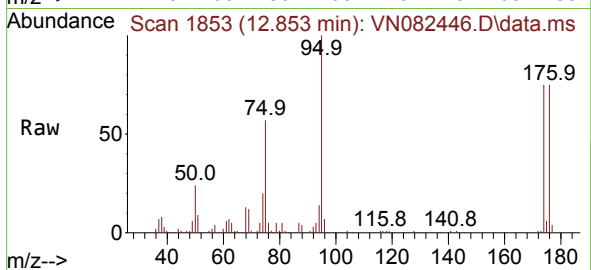
ClientSampleId :

Tgt Ion: 75 Resp: 65902

Ion Ratio Lower Upper

75 100

77 1.2 90.5 271.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.668 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.117 min

Lab File: VN082446.D

Acq: 03 Jun 2024 20:05

Tgt Ion: 75 Resp: 65902

Ion Ratio Lower Upper

75 100

53 0.0 72.9 109.3#

89 0.0 39.1 58.7#

