

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031822\  
 Data File : VN071374.D  
 Acq On : 18 Mar 2022 15:54  
 Operator : JC\MD  
 Sample : N2009-06 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 19 07:08:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 Response via : Initial Calibration

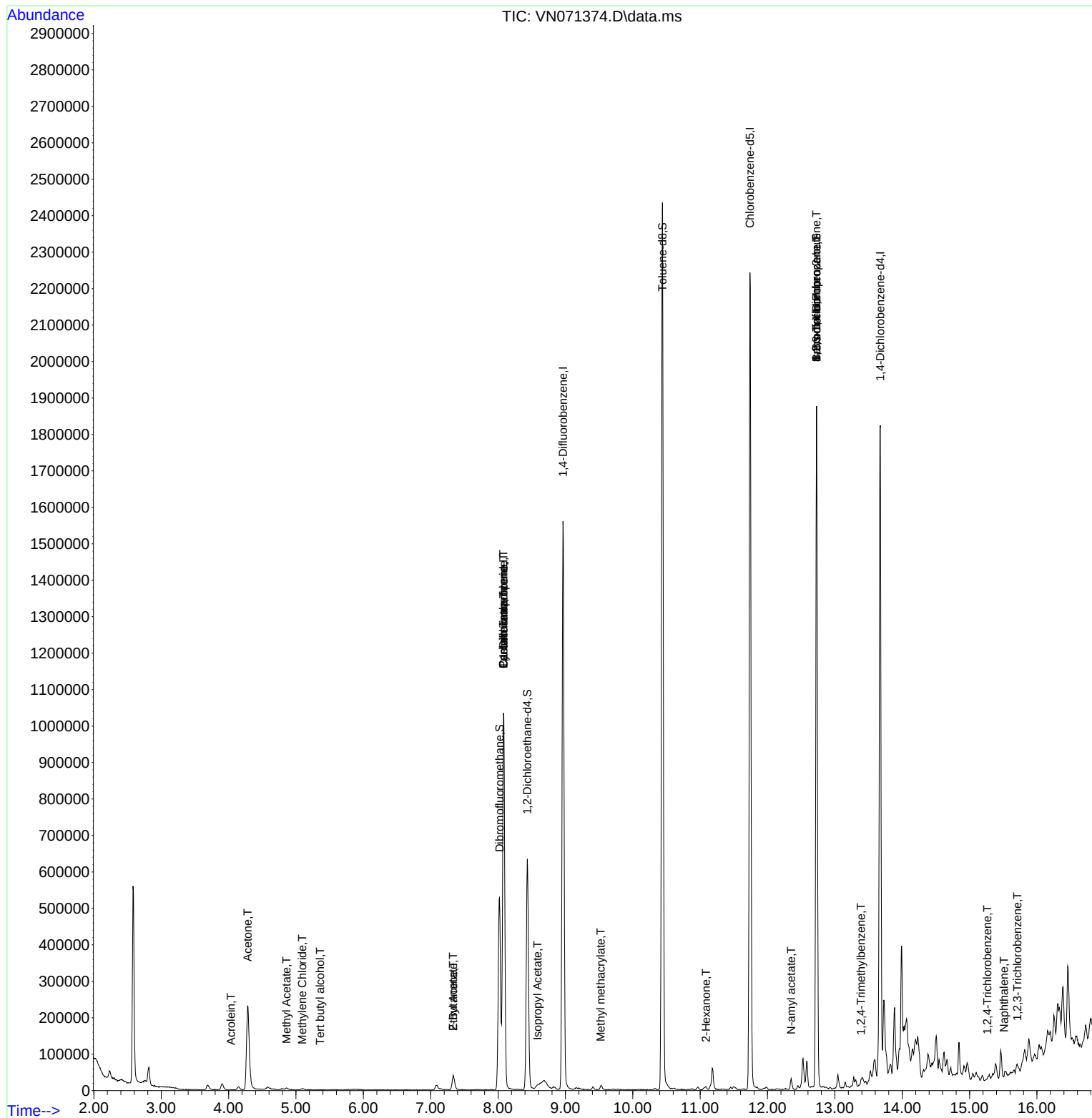
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.081  | 168   | 799543   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963  | 114   | 1343412  | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739 | 117   | 1297572  | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.674 | 152   | 495423   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.433  | 65    | 516264   | 47.113    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 94.220%  |
| 35) Dibromofluoromethane      | 8.022  | 113   | 395191   | 46.617    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 93.240%  |
| 50) Toluene-d8                | 10.439 | 98    | 1661355  | 48.674    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 97.340%  |
| 62) 4-Bromofluorobenzene      | 12.727 | 95    | 641279   | 55.483    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 110.960% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.840  | 94    | 679      | Below Cal | #      | 78       |
| 11) Tert butyl alcohol        | 5.357  | 59    | 770      | 0.358     | ug/l # | 71       |
| 13) Acrolein                  | 4.034  | 56    | 496      | 0.218     | ug/l # | 55       |
| 16) Acetone                   | 4.281  | 43    | 433448   | 81.294    | ug/l   | 99       |
| 18) Methyl Acetate            | 4.857  | 43    | 10200    | 1.176     | ug/l   | 93       |
| 20) Methylene Chloride        | 5.092  | 84    | 2930     | 0.680     | ug/l # | 92       |
| 25) 2-Butanone                | 7.334  | 43    | 70244    | 8.178     | ug/l   | 92       |
| 31) Cyclohexane               | 8.081  | 56    | 17042    | 0.974     | ug/l # | 12       |
| 36) 1,1-Dichloropropene       | 8.081  | 75    | 62473    | 4.599     | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.334  | 43    | 70244    | 3.758     | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 8.081  | 117   | 77682    | 5.913     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.586  | 43    | 11569    | 0.414     | ug/l # | 55       |
| 48) Methyl methacrylate       | 9.522  | 41    | 4241     | 0.327     | ug/l # | 30       |
| 59) 2-Hexanone                | 11.086 | 43    | 8381     | 0.708     | ug/l   | 71       |
| 71) Bromoform                 | 12.727 | 173   | 3734     | 0.481     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.351 | 43    | 20657    | 1.150     | ug/l # | 49       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83    | 201      | Below Cal | #      | 1        |
| 76) 1,2,3-Trichloropropane    | 12.727 | 75    | 330288   | 26.161    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727 | 75    | 330288   | 72.068    | ug/l # | 5        |
| 84) 1,2,4-Trimethylbenzene    | 13.386 | 105   | 7773     | 0.218     | ug/l # | 31       |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180   | 557      | 3.054     | ug/l   | 78       |
| 95) Naphthalene               | 15.509 | 128   | 2777     | 5.177     | ug/l # | 88       |
| 96) 1,2,3-Trichlorobenzene    | 15.709 | 180   | 885      | 2.839     | ug/l # | 18       |
| -----                         |        |       |          |           |        |          |

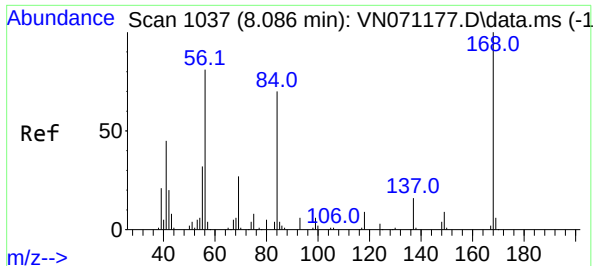
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Mar 08 06:52:46 2022  
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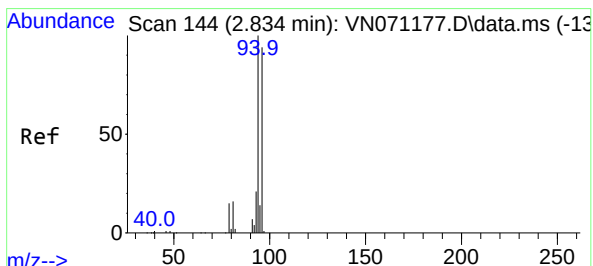
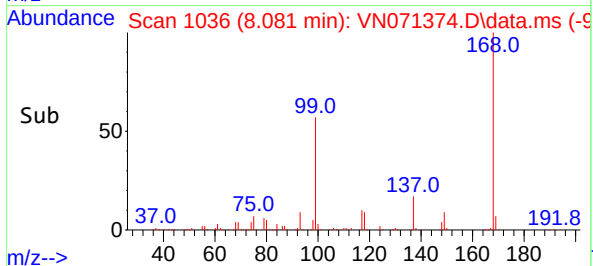
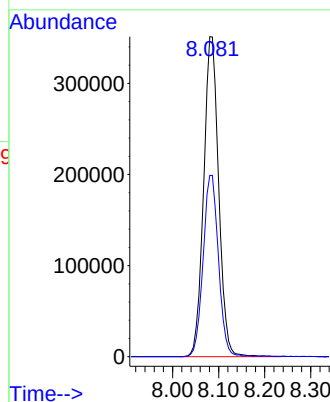
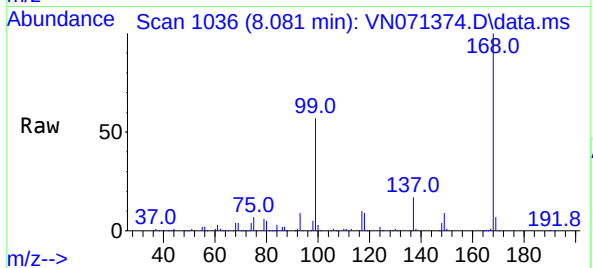




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.081 min Scan# 10  
Delta R.T. -0.005 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

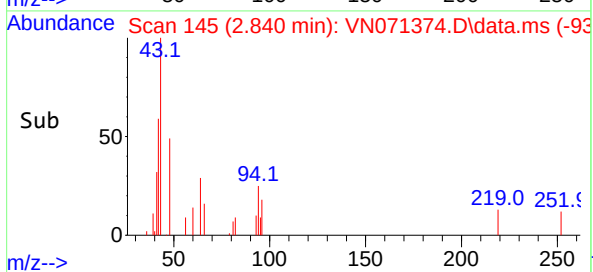
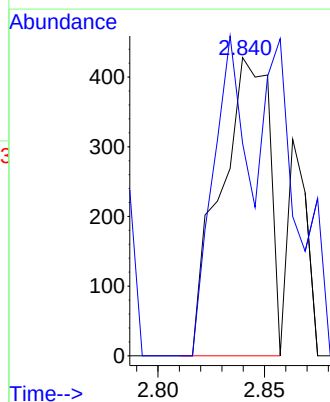
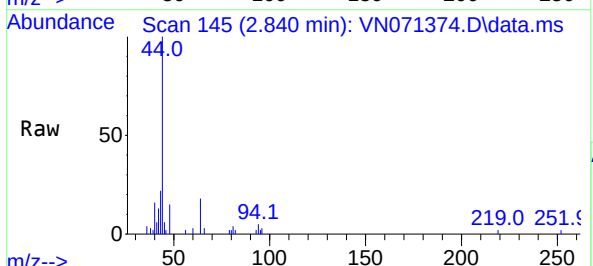
Instrument :  
MSVOA\_N  
ClientSampleId :

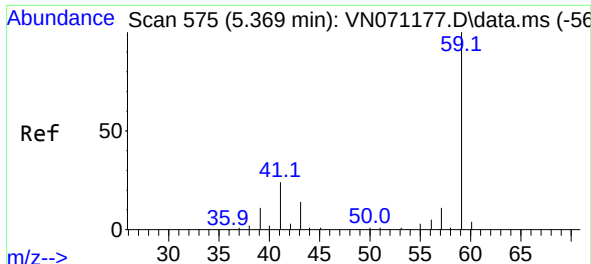
Tgt Ion:168 Resp: 799543  
Ion Ratio Lower Upper  
168 100  
99 56.6 41.3 61.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.840 min Scan# 145  
Delta R.T. 0.006 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion: 94 Resp: 679  
Ion Ratio Lower Upper  
94 100  
96 71.3 73.8 110.8#





#11

Tert butyl alcohol

Concen: 0.358 ug/l

RT: 5.357 min Scan# 51

Delta R.T. -0.012 min

Lab File: VN071374.D

Acq: 18 Mar 2022 15:54

Instrument :

MSVOA\_N

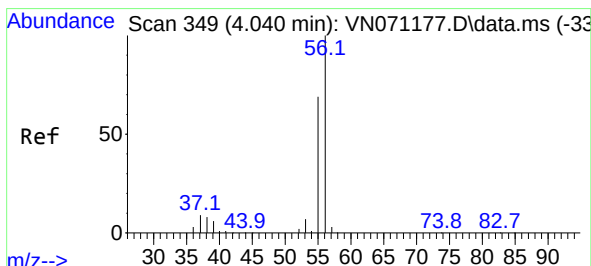
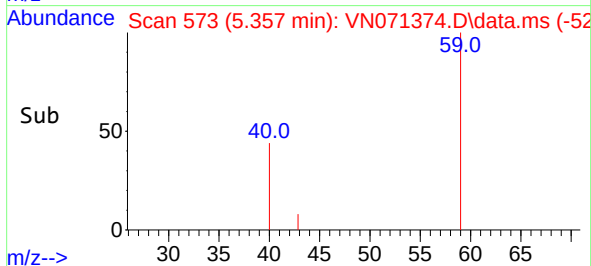
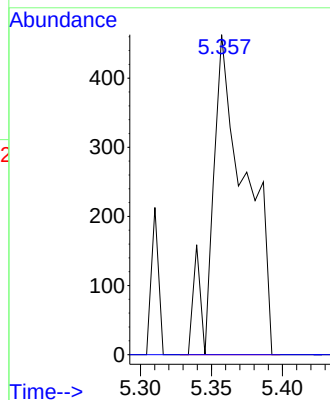
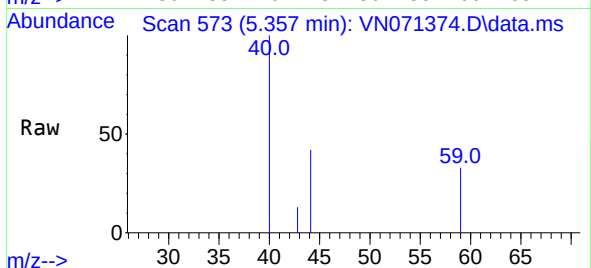
ClientSampleId :

Tgt Ion: 59 Resp: 770

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#13

Acrolein

Concen: 0.218 ug/l

RT: 4.034 min Scan# 348

Delta R.T. -0.006 min

Lab File: VN071374.D

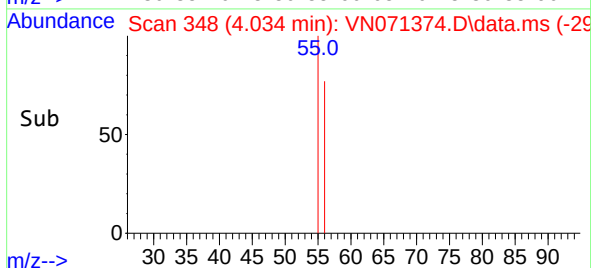
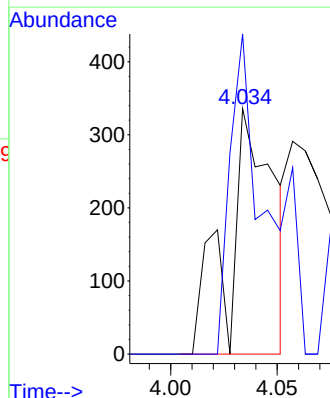
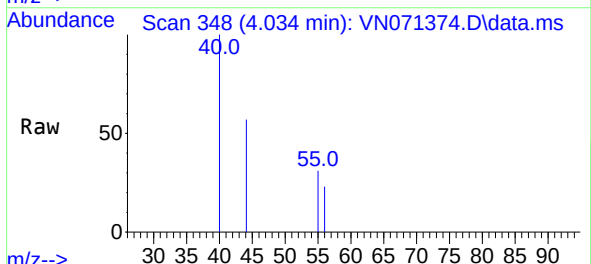
Acq: 18 Mar 2022 15:54

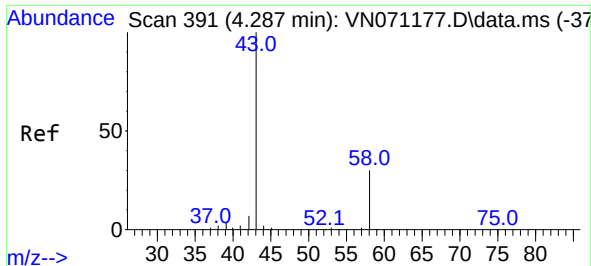
Tgt Ion: 56 Resp: 496

Ion Ratio Lower Upper

56 100

55 108.1 56.6 85.0#

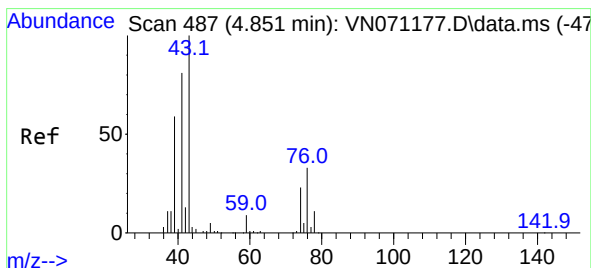
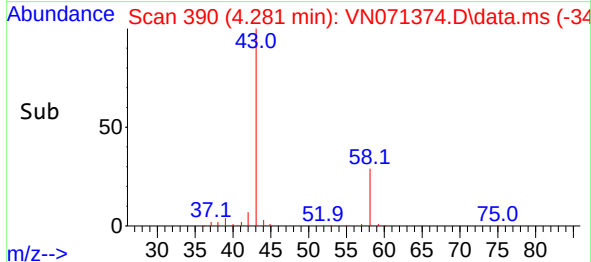
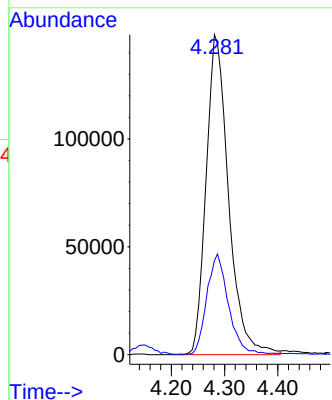
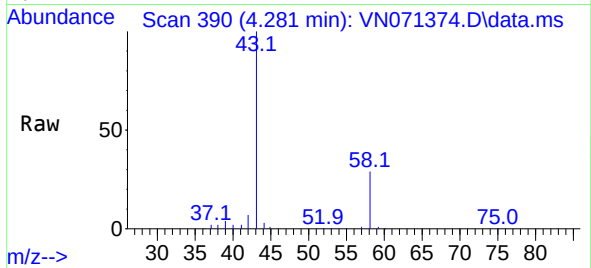




#16  
Acetone  
Concen: 81.294 ug/l  
RT: 4.281 min Scan# 391  
Delta R.T. -0.006 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

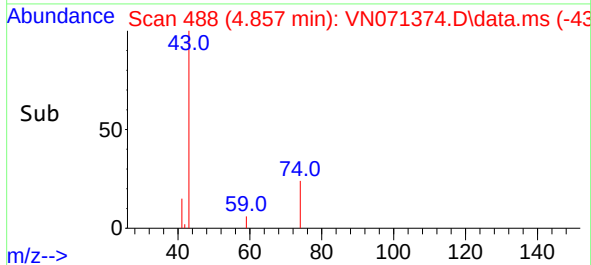
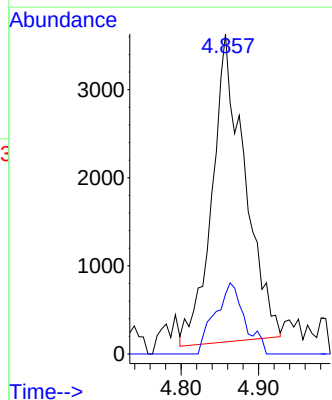
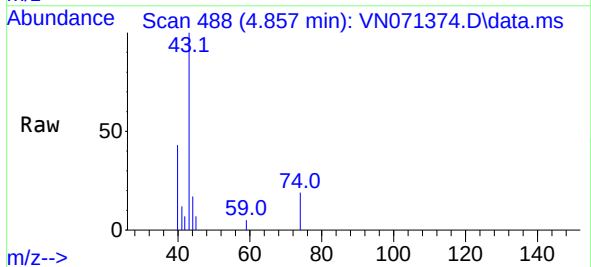
Instrument :  
MSVOA\_N  
ClientSampleId :

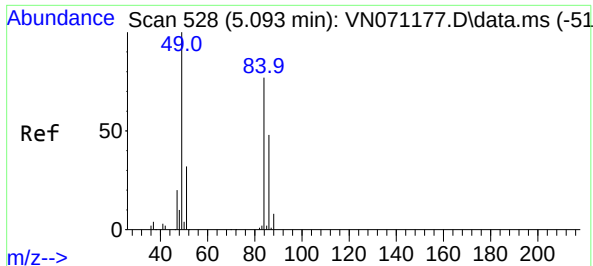
Tgt Ion: 43 Resp: 433448  
Ion Ratio Lower Upper  
43 100  
58 29.2 23.1 34.7



#18  
Methyl Acetate  
Concen: 1.176 ug/l  
RT: 4.857 min Scan# 488  
Delta R.T. 0.006 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

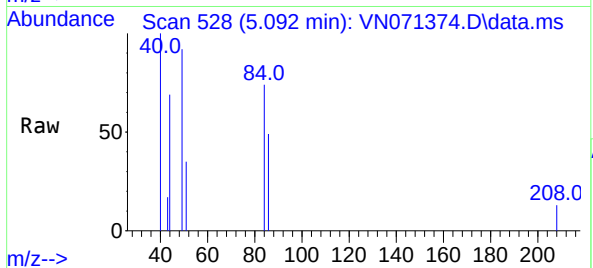
Tgt Ion: 43 Resp: 10200  
Ion Ratio Lower Upper  
43 100  
74 21.0 19.4 29.2



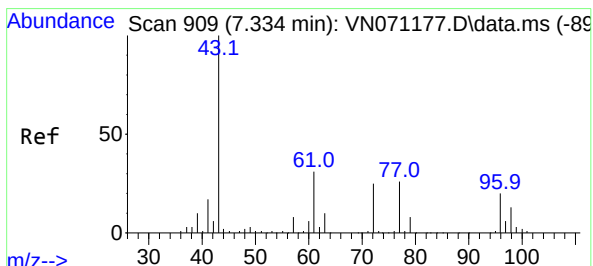
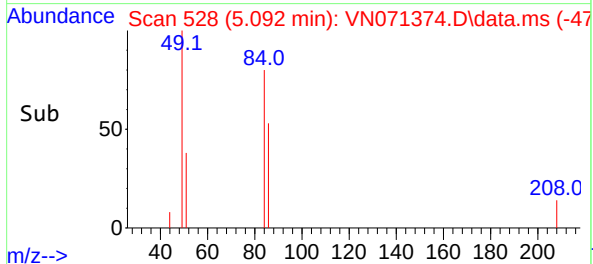
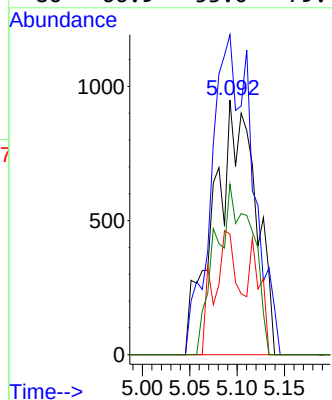


#20  
Methylene Chloride  
Concen: 0.680 ug/l  
RT: 5.092 min Scan# 51  
Delta R.T. -0.001 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Instrument :  
MSVOA\_N  
ClientSampleId :

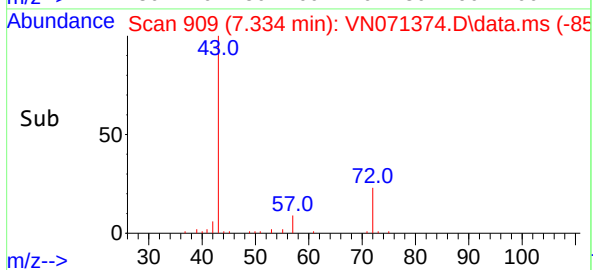
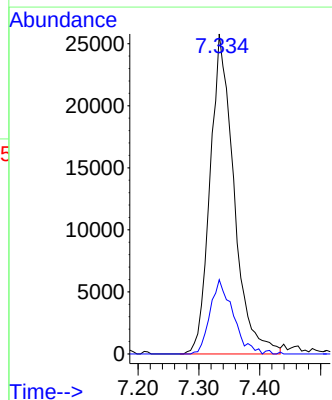
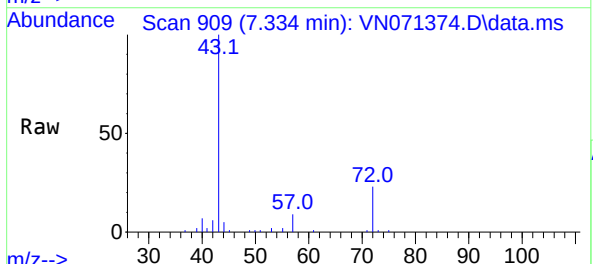


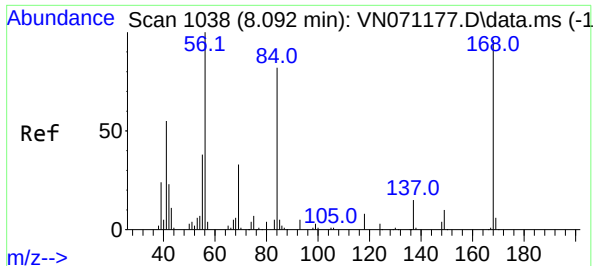
Tgt Ion: 84 Resp: 2930  
Ion Ratio Lower Upper  
84 100  
49 125.7 93.5 140.3  
51 47.3 29.4 44.2#  
86 66.9 53.0 79.4



#25  
2-Butanone  
Concen: 8.178 ug/l  
RT: 7.334 min Scan# 909  
Delta R.T. -0.000 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion: 43 Resp: 70244  
Ion Ratio Lower Upper  
43 100  
72 23.2 21.7 32.5





#31

Cyclohexane

Concen: 0.974 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071374.D

Acq: 18 Mar 2022 15:54

Instrument :

MSVOA\_N

ClientSampleId :

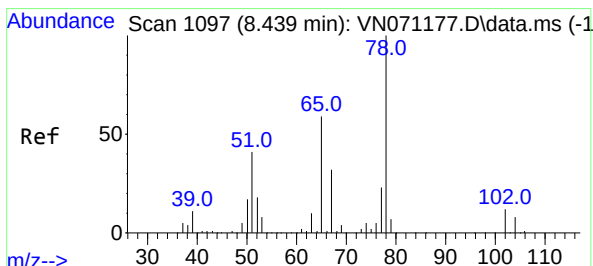
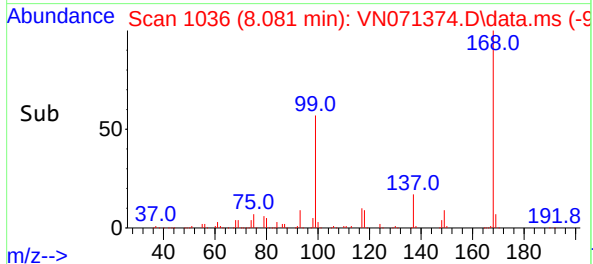
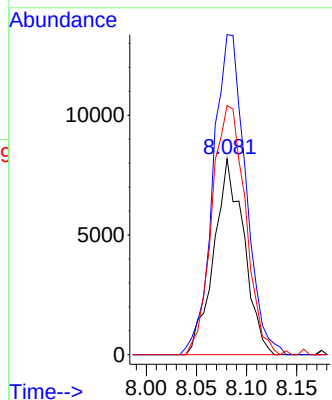
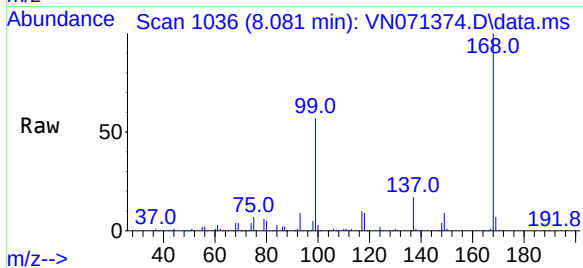
Tgt Ion: 56 Resp: 17042

Ion Ratio Lower Upper

56 100

69 163.3 27.1 40.7#

84 127.2 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 47.113 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071374.D

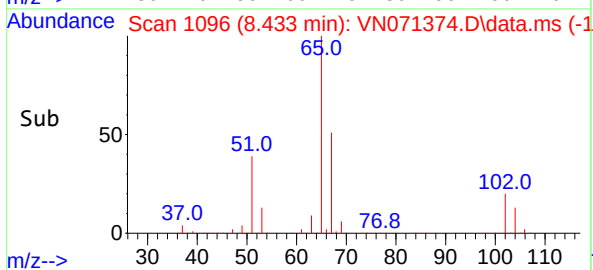
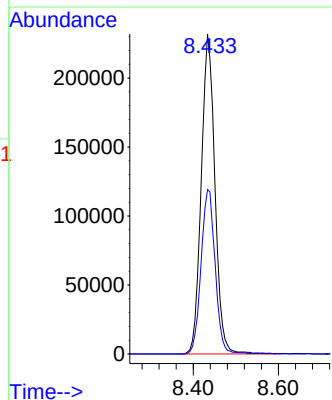
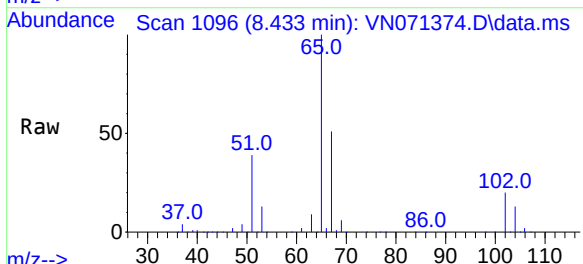
Acq: 18 Mar 2022 15:54

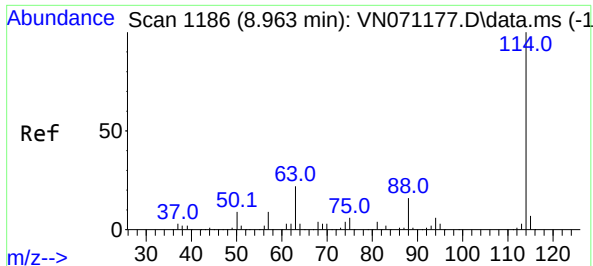
Tgt Ion: 65 Resp: 516264

Ion Ratio Lower Upper

65 100

67 52.9 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071374.D

Acq: 18 Mar 2022 15:54

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ClientSampleId :

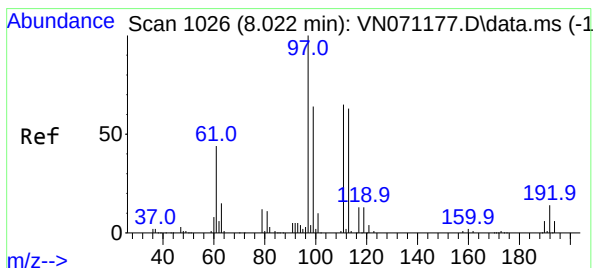
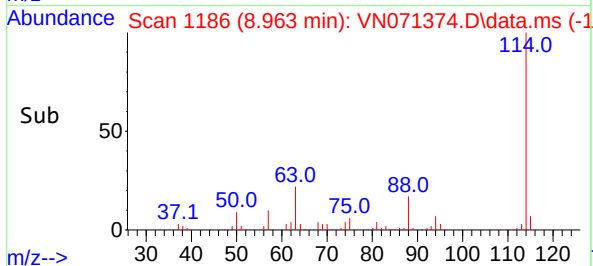
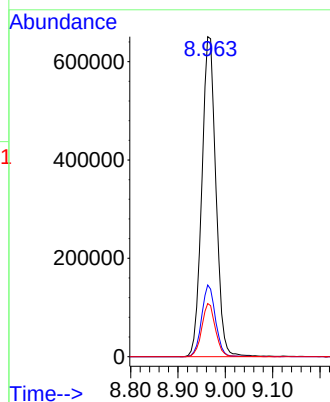
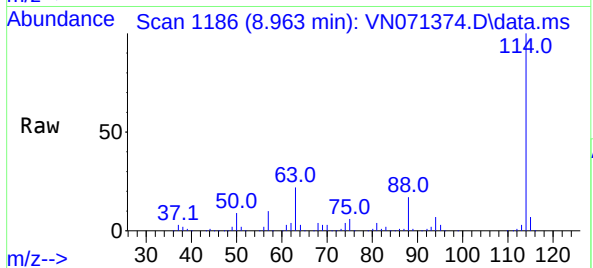
Tgt Ion:114 Resp: 1343412

Ion Ratio Lower Upper

114 100

63 22.4 0.0 37.8

88 16.6 0.0 27.4



#35

Dibromofluoromethane

Concen: 46.617 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. -0.000 min

Lab File: VN071374.D

Acq: 18 Mar 2022 15:54

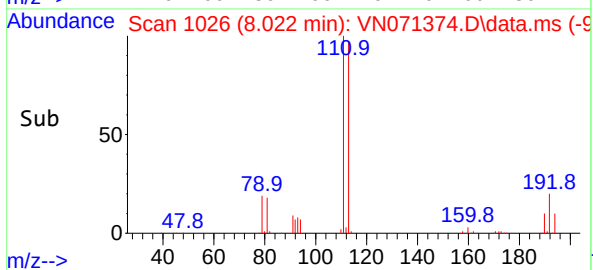
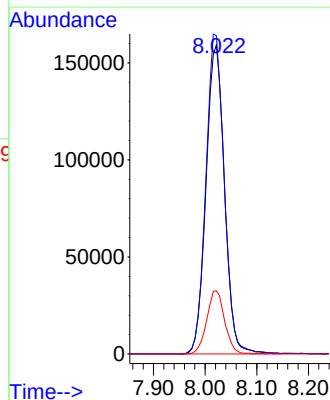
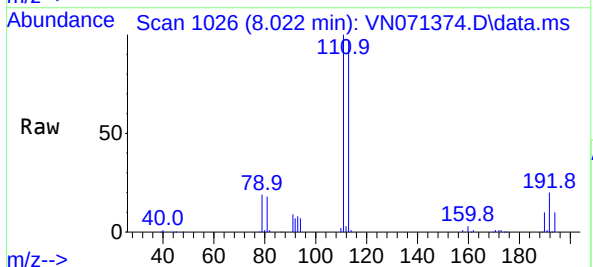
Tgt Ion:113 Resp: 395191

Ion Ratio Lower Upper

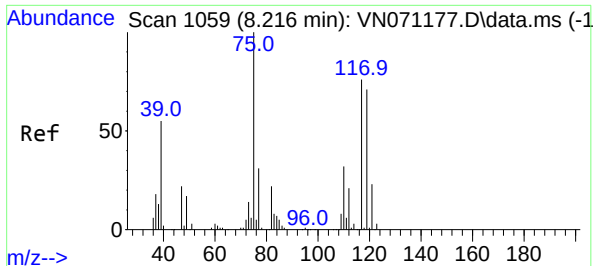
113 100

111 103.4 82.2 123.2

192 19.8 16.9 25.3



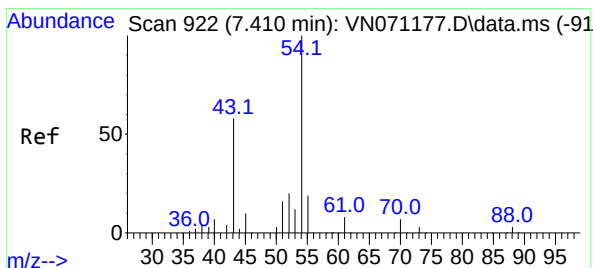
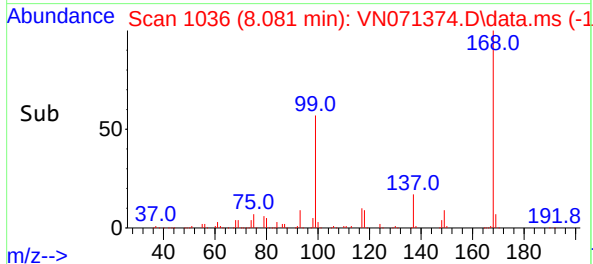
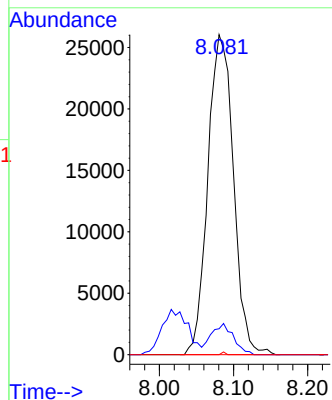
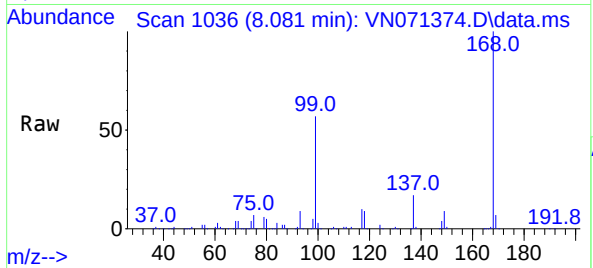




#36  
1,1-Dichloropropene  
Concen: 4.599 ug/l  
RT: 8.081 min Scan# 1059  
Delta R.T. -0.135 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

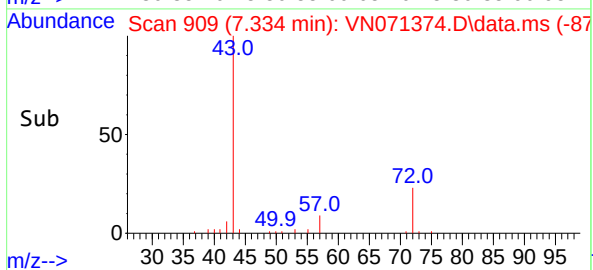
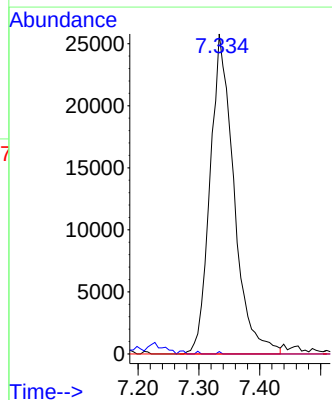
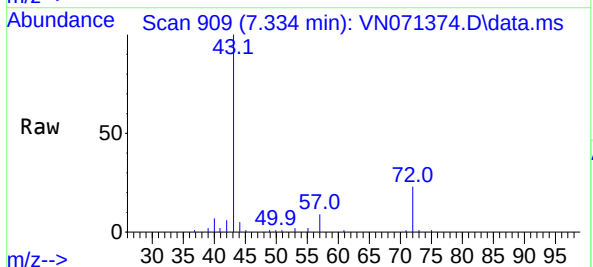
Instrument :  
MSVOA\_N  
ClientSampleId :

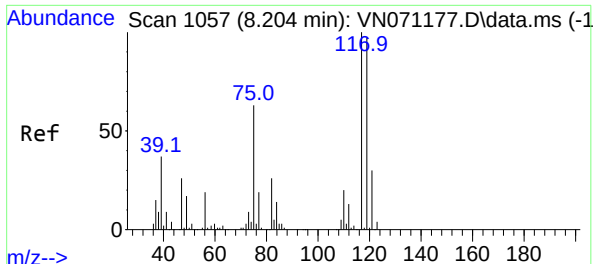
Tgt Ion: 75 Resp: 62473  
Ion Ratio Lower Upper  
75 100  
110 8.5 18.4 55.2#  
77 0.1 24.4 36.6#



#37  
Ethyl Acetate  
Concen: 3.758 ug/l  
RT: 7.334 min Scan# 909  
Delta R.T. -0.076 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

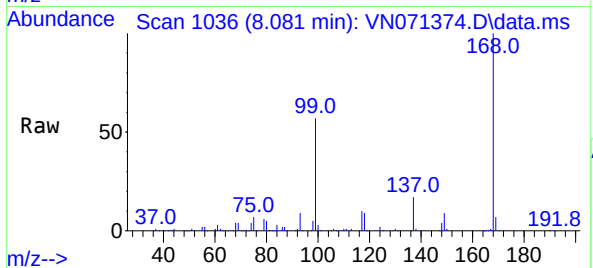
Tgt Ion: 43 Resp: 70244  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.5 17.3#  
70 0.0 7.9 11.9#



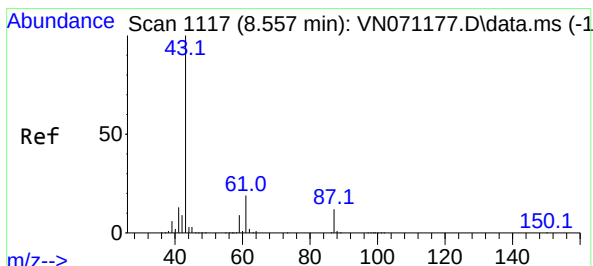
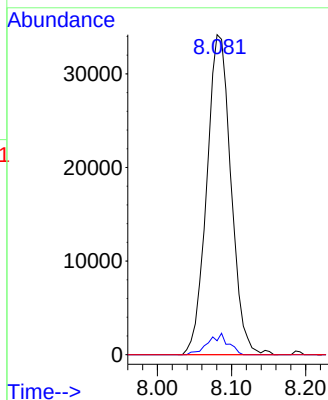
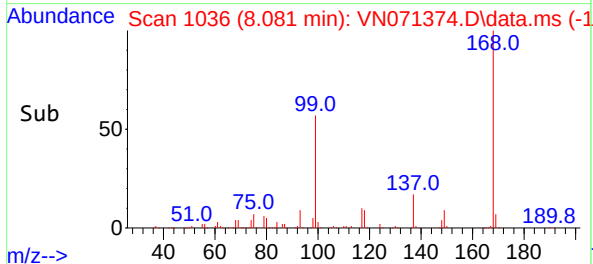


#38  
Carbon Tetrachloride  
Concen: 5.913 ug/l  
RT: 8.081 min Scan# 1107  
Delta R.T. -0.124 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

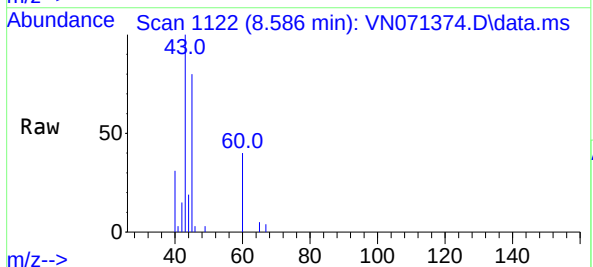
Instrument :  
MSVOA\_N  
ClientSampleId :



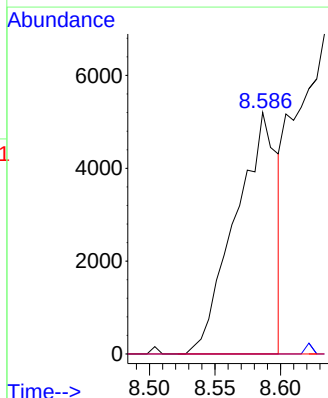
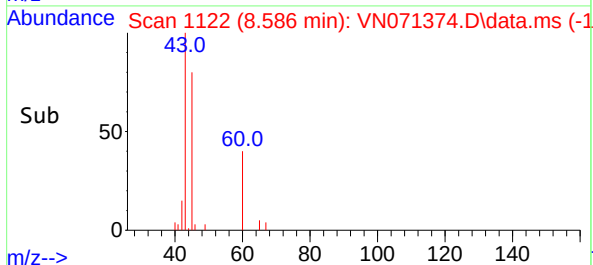
Tgt Ion:117 Resp: 77682  
Ion Ratio Lower Upper  
117 100  
119 4.3 76.1 114.1#  
121 0.0 24.2 36.2#

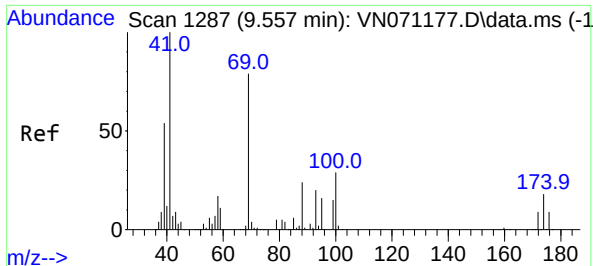


#43  
Isopropyl Acetate  
Concen: 0.414 ug/l  
RT: 8.586 min Scan# 1122  
Delta R.T. 0.029 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54



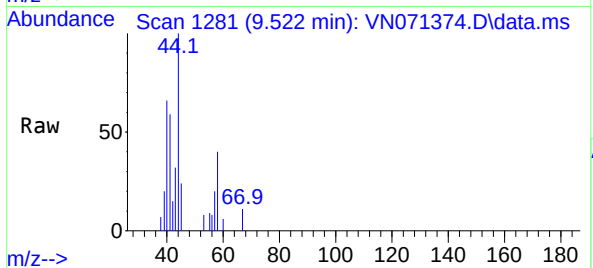
Tgt Ion: 43 Resp: 11569  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 11.2 16.8#



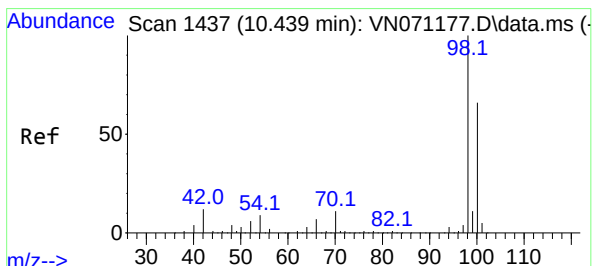
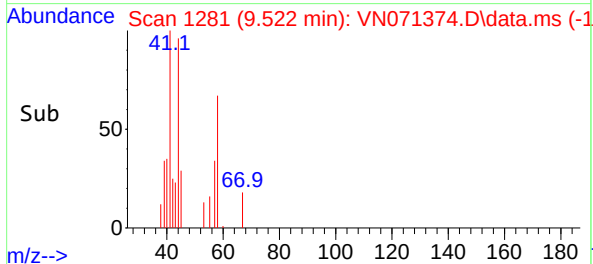
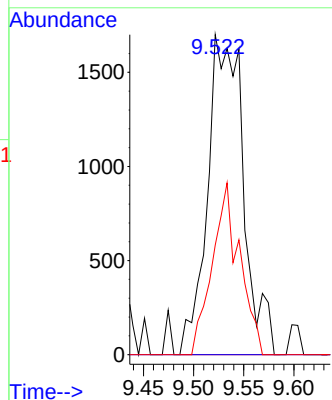


#48  
Methyl methacrylate  
Concen: 0.327 ug/l  
RT: 9.522 min Scan# 11  
Delta R.T. -0.035 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Instrument :  
MSVOA\_N  
ClientSampleId :

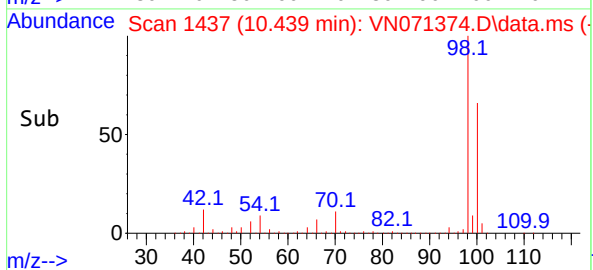
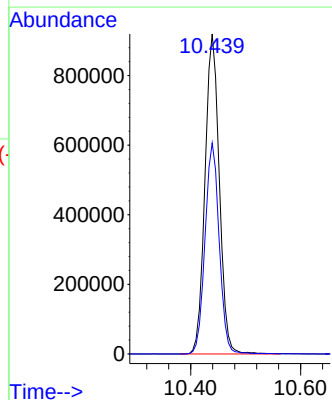
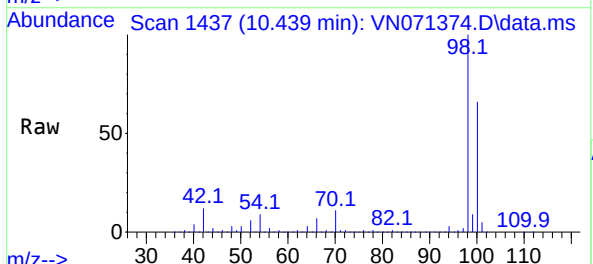


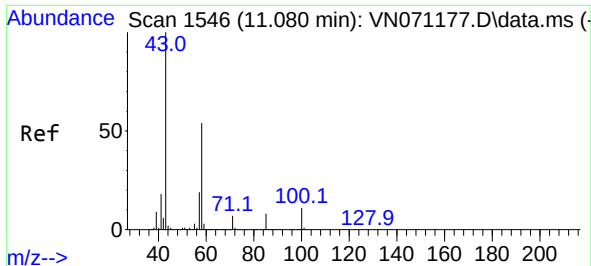
Tgt Ion: 41 Resp: 4241  
Ion Ratio Lower Upper  
41 100  
69 0.0 72.4 108.6#  
39 41.0 58.4 87.6#



#50  
Toluene-d8  
Concen: 48.674 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion: 98 Resp: 1661355  
Ion Ratio Lower Upper  
98 100  
100 65.2 50.4 75.6

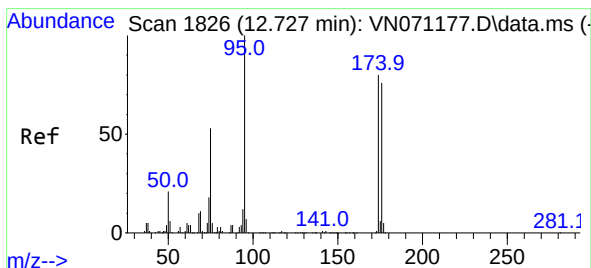
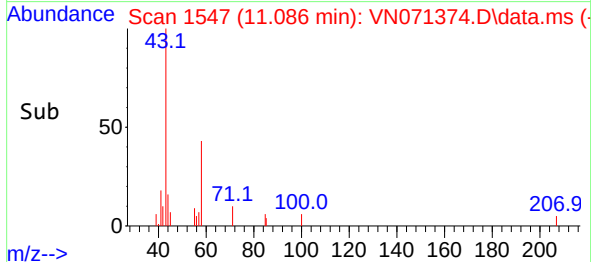
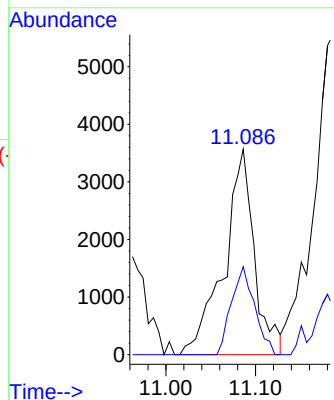
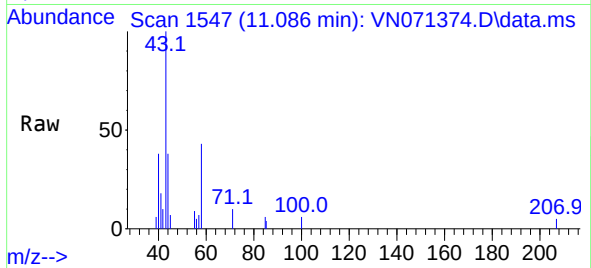




#59  
2-Hexanone  
Concen: 0.708 ug/l  
RT: 11.086 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

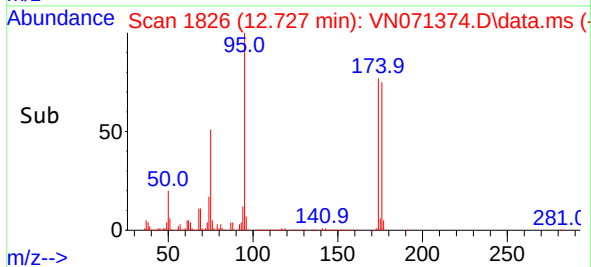
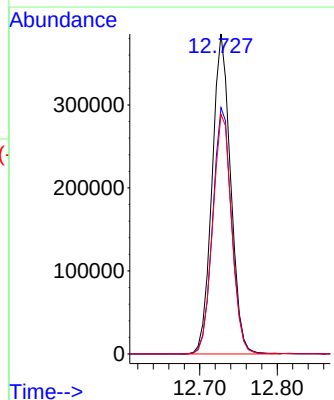
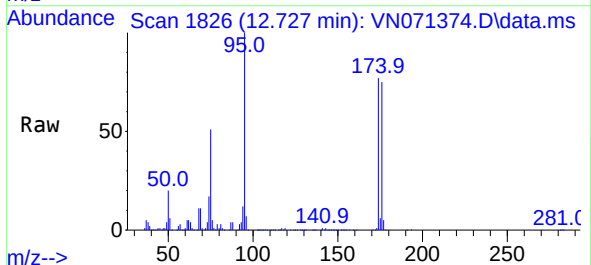
Instrument :  
MSVOA\_N  
ClientSampleId :

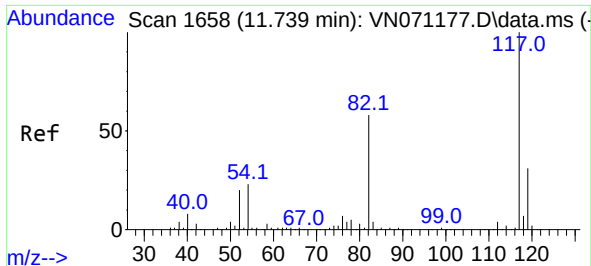
Tgt Ion: 43 Resp: 8381  
Ion Ratio Lower Upper  
43 100  
58 32.8 26.9 80.7



#62  
4-Bromofluorobenzene  
Concen: 55.483 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion: 95 Resp: 641279  
Ion Ratio Lower Upper  
95 100  
174 78.4 0.0 187.2  
176 76.2 0.0 181.4

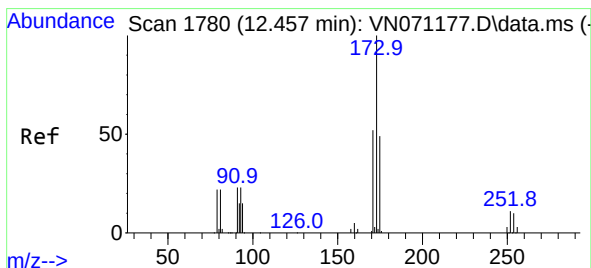
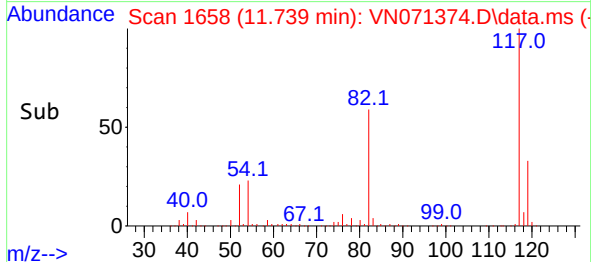
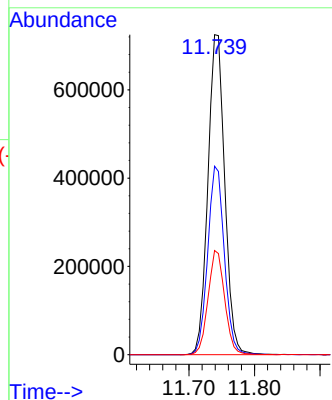
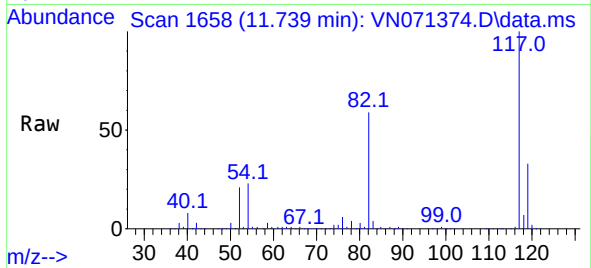




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

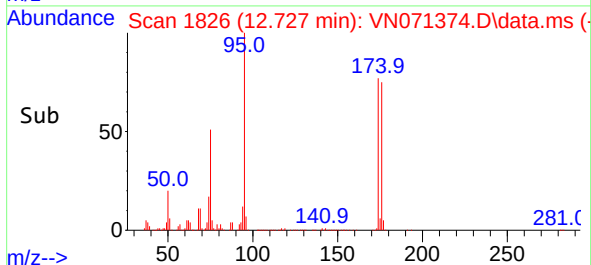
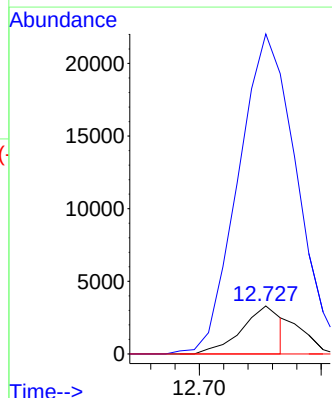
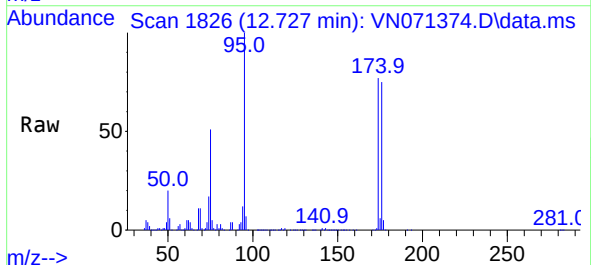
Instrument :  
MSVOA\_N  
ClientSampleId :

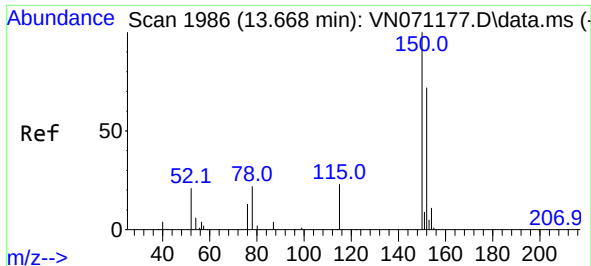
Tgt Ion:117 Resp: 1297572  
Ion Ratio Lower Upper  
117 100  
82 58.9 42.4 63.6  
119 32.5 25.4 38.2



#71  
Bromoform  
Concen: 0.481 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.270 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion:173 Resp: 3734  
Ion Ratio Lower Upper  
173 100  
175 749.7 24.2 72.6#  
254 0.0 0.0 0.0

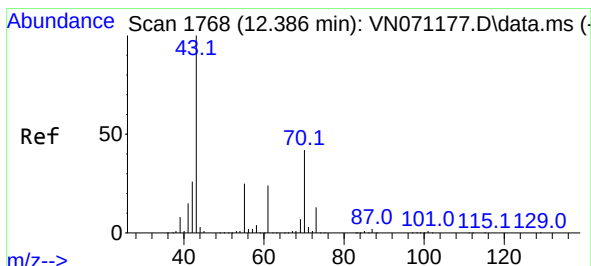
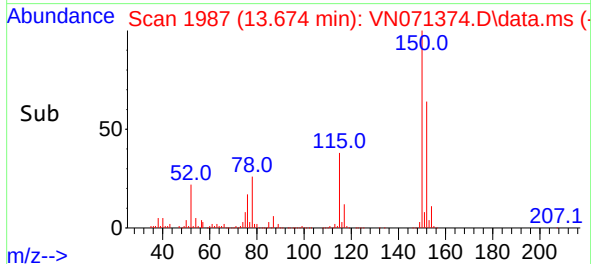
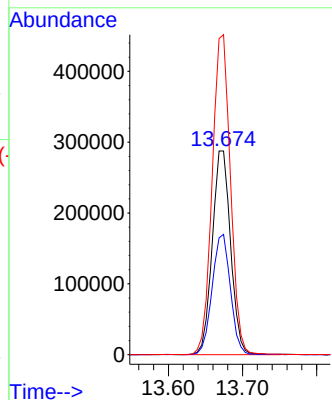
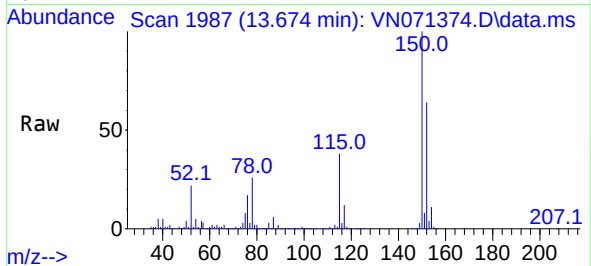




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.674 min Scan# 1986  
Delta R.T. 0.006 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

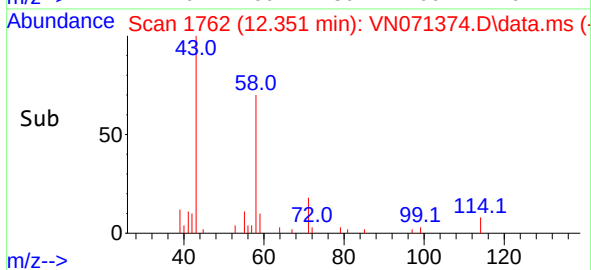
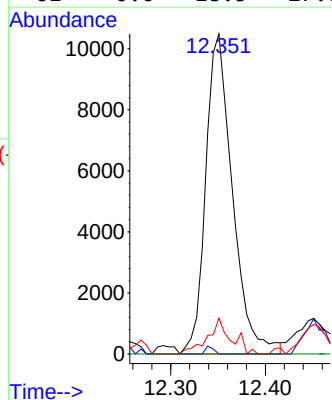
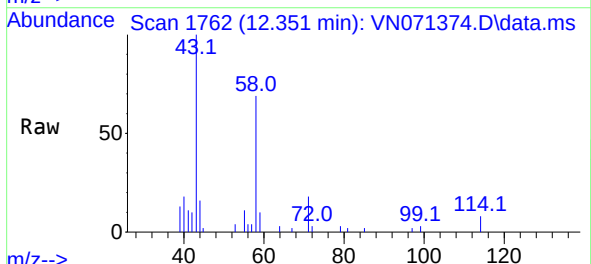
Instrument :  
MSVOA\_N  
ClientSampleId :

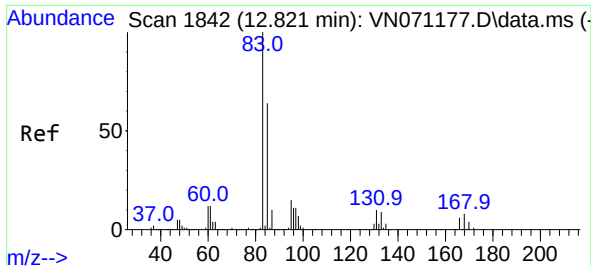
Tgt Ion:152 Resp: 495423  
Ion Ratio Lower Upper  
152 100  
115 58.9 27.5 82.5  
150 156.2 0.0 344.4



#74  
N-ethyl acetate  
Concen: 1.150 ug/l  
RT: 12.351 min Scan# 1762  
Delta R.T. -0.035 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion: 43 Resp: 20657  
Ion Ratio Lower Upper  
43 100  
70 0.7 33.4 50.0#  
55 9.6 19.3 28.9#  
61 0.0 18.5 27.7#

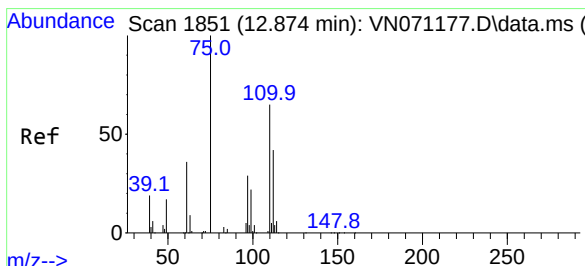
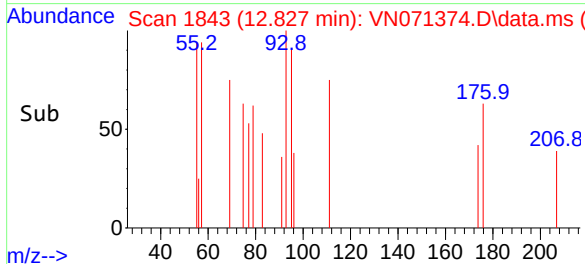
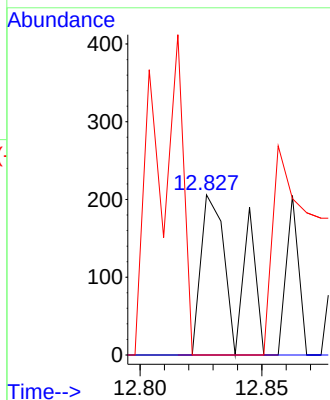
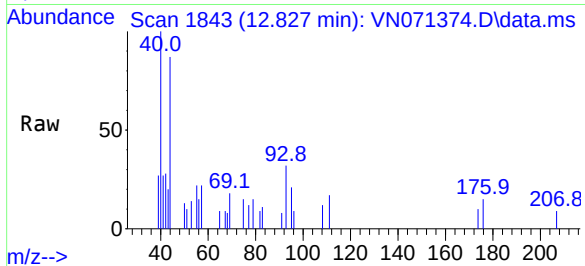




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.827 min Scan# 1842  
Delta R.T. 0.006 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

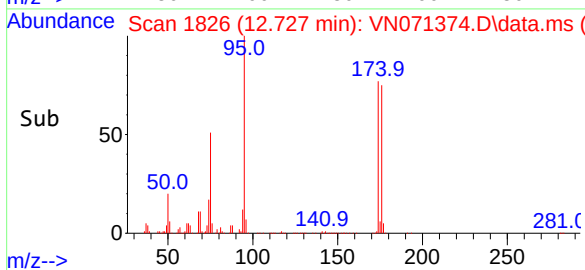
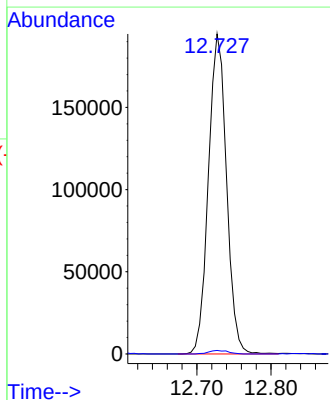
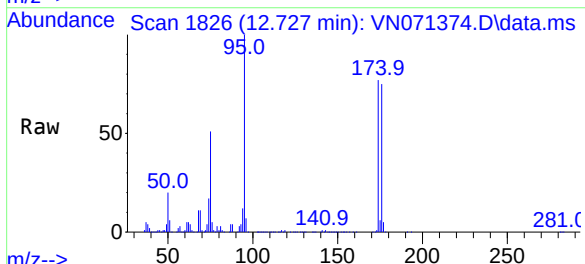
Instrument :  
MSVOA\_N  
ClientSampleId :

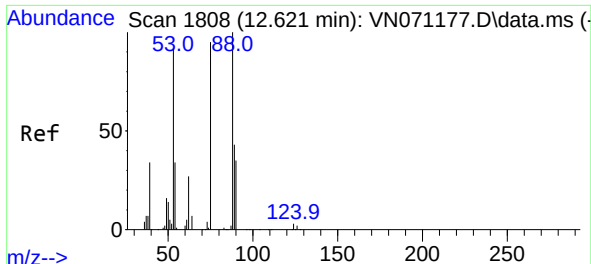
Tgt Ion: 83 Resp: 201  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.5 16.5#  
85 163.2 32.4 97.2#



#76  
1,2,3-Trichloropropane  
Concen: 26.161 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.147 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion: 75 Resp: 330288  
Ion Ratio Lower Upper  
75 100  
77 1.2 82.6 247.8#

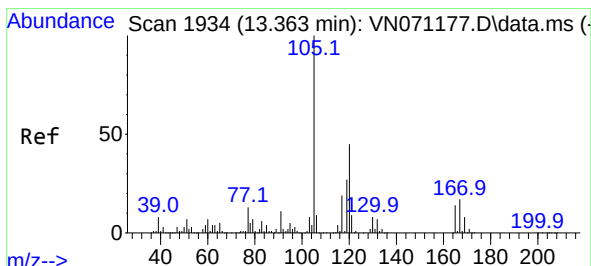
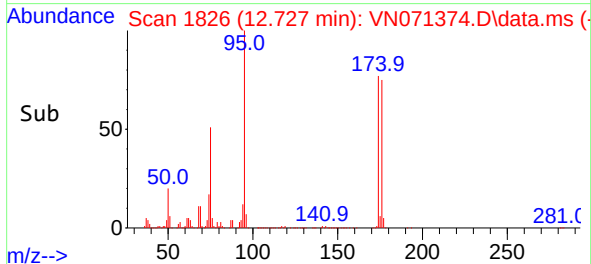
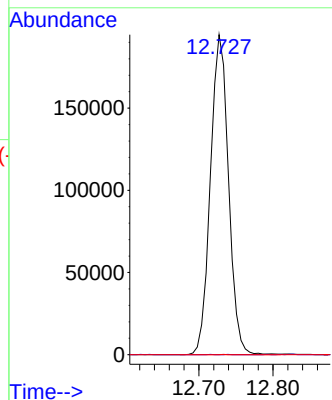
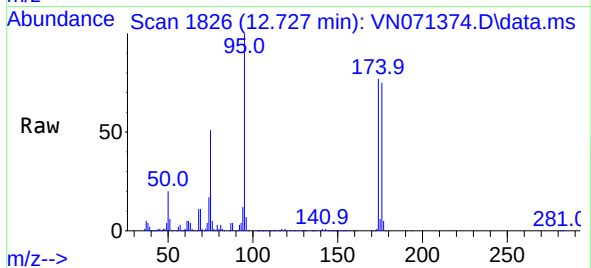




#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.068 ug/l  
RT: 12.727 min Scan# 1808  
Delta R.T. 0.106 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

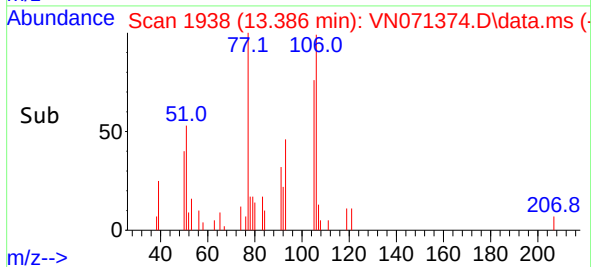
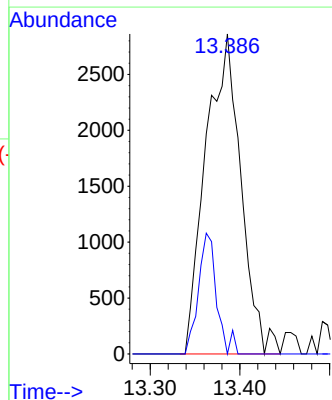
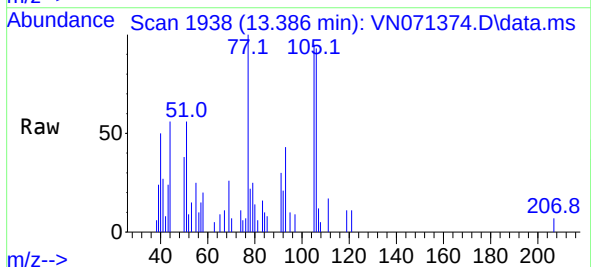
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 330288  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#

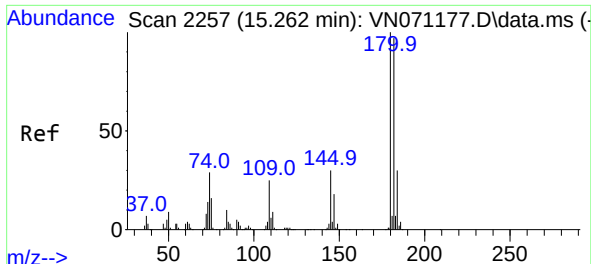


#84  
1,2,4-Trimethylbenzene  
Concen: 0.218 ug/l  
RT: 13.386 min Scan# 1938  
Delta R.T. 0.023 min  
Lab File: VN071374.D  
Acq: 18 Mar 2022 15:54

Tgt Ion: 105 Resp: 7773  
Ion Ratio Lower Upper  
105 100  
120 0.0 22.8 68.4#







#93

1,2,4-Trichlorobenzene

Concen: 3.054 ug/l

RT: 15.262 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VN071374.D

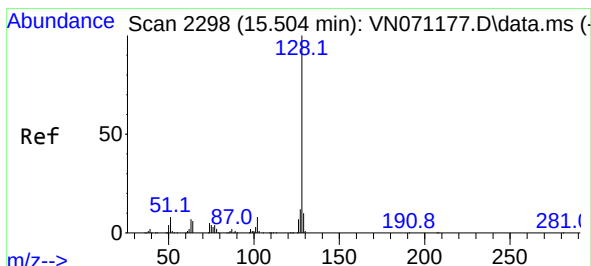
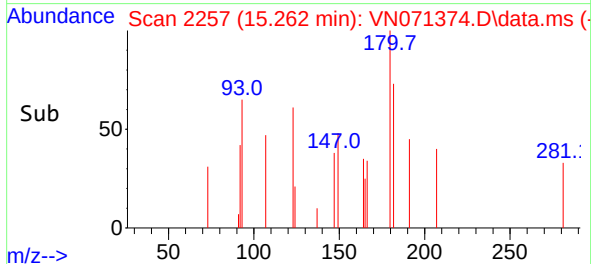
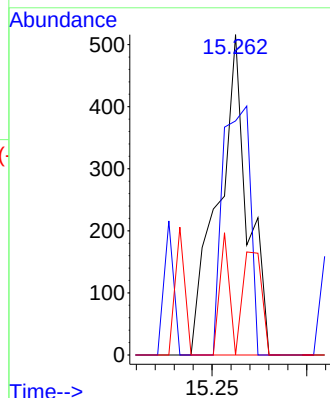
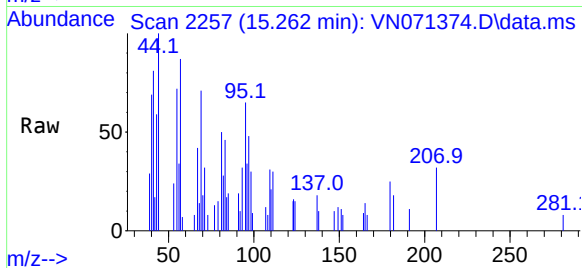
Acq: 18 Mar 2022 15:54

Instrument :

MSVOA\_N

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 557        |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 72.5  | 48.3 144.9 |
| 145         | 20.8  | 14.5 43.5  |



#95

Naphthalene

Concen: 5.177 ug/l

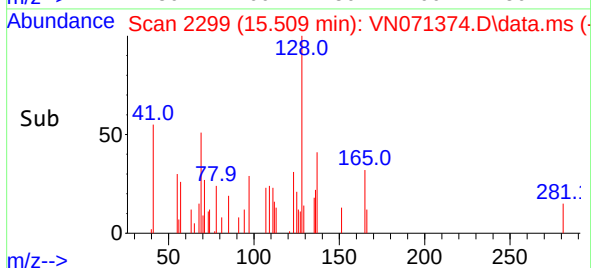
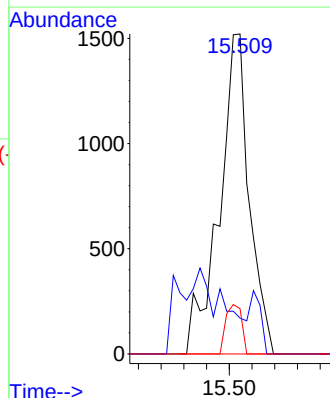
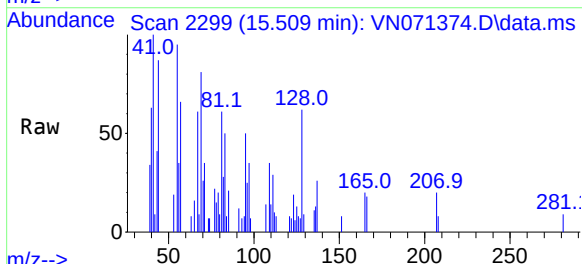
RT: 15.509 min Scan# 2299

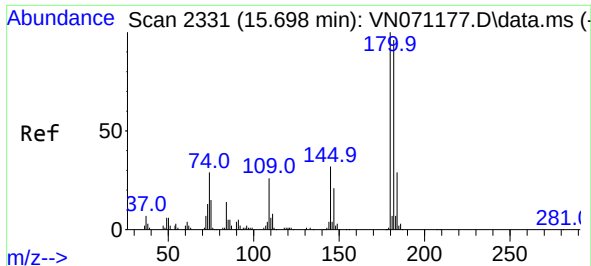
Delta R.T. 0.005 min

Lab File: VN071374.D

Acq: 18 Mar 2022 15:54

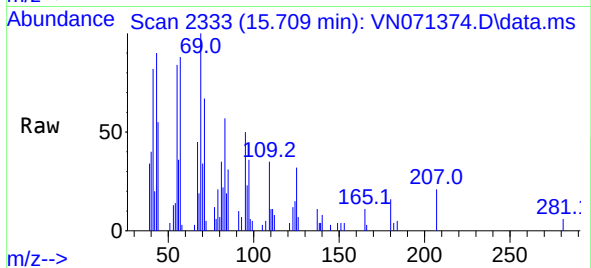
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 2777       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 6.8   | 10.5 15.7# |
| 129         | 8.1   | 8.7 13.1#  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.839 ug/l  
 RT: 15.709 min Scan# 21  
 Delta R.T. 0.011 min  
 Lab File: VN071374.D  
 Acq: 18 Mar 2022 15:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 885  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 47.4 142.2#  
 145 12.8 15.0 45.1#

