

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031922\  
 Data File : VN071389.D  
 Acq On : 19 Mar 2022 11:30  
 Operator : JC\MD  
 Sample : VN0319WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0319WBL01

Quant Time: Mar 21 05:49:07 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

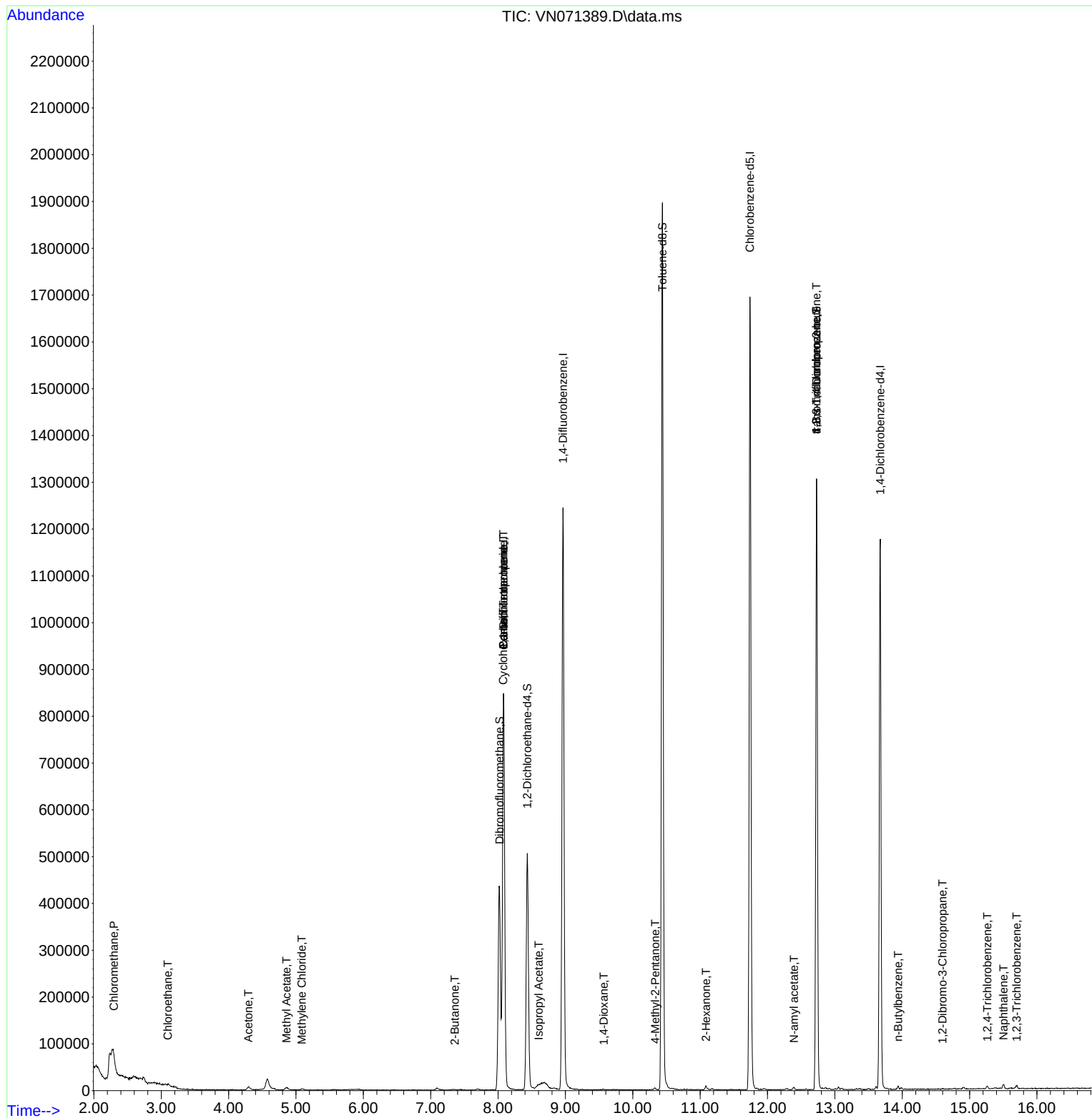
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.081  | 168   | 648693   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963  | 114   | 1081153  | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739 | 117   | 982394   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.674 | 152   | 324807   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.433  | 65    | 420643   | 47.313    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 94.620%  |
| 35) Dibromofluoromethane      | 8.022  | 113   | 324081   | 47.502    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 95.000%  |
| 50) Toluene-d8                | 10.439 | 98    | 1293700  | 47.096    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 94.200%  |
| 62) 4-Bromofluorobenzene      | 12.727 | 95    | 457118   | 49.143    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 98.280%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.299  | 50    | 3836     | 0.368     | ug/l # | 81       |
| 5) Bromomethane               | 2.810  | 94    | 53       | Below Cal | #      | 3        |
| 6) Chloroethane               | 3.098  | 64    | 6286     | 1.191     | ug/l # | 53       |
| 16) Acetone                   | 4.293  | 43    | 10953    | 2.532     | ug/l   | 95       |
| 18) Methyl Acetate            | 4.857  | 43    | 11400    | 1.442     | ug/l # | 76       |
| 20) Methylene Chloride        | 5.087  | 84    | 1128     | 0.523     | ug/l # | 83       |
| 25) 2-Butanone                | 7.357  | 43    | 2597     | 0.373     | ug/l # | 79       |
| 31) Cyclohexane               | 8.075  | 56    | 14684    | 1.034     | ug/l # | 31       |
| 36) 1,1-Dichloropropene       | 8.081  | 75    | 51719    | 4.731     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.081  | 117   | 64637    | 6.113     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.604  | 43    | 11738    | 0.522     | ug/l # | 55       |
| 49) 1,4-Dioxane               | 9.569  | 88    | 79       | 0.436     | ug/l # | 68       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43    | 3611     | 0.259     | ug/l # | 85       |
| 59) 2-Hexanone                | 11.086 | 43    | 7407     | 0.778     | ug/l   | 91       |
| 74) N-amyl acetate            | 12.392 | 43    | 3475     | 0.295     | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83    | 1061     | Below Cal | #      | 70       |
| 76) 1,2,3-Trichloropropane    | 12.727 | 75    | 236263   | 28.816    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727 | 75    | 236263   | 78.631    | ug/l # | 5        |
| 89) n-Butylbenzene            | 13.939 | 91    | 3795     | 0.214     | ug/l   | 92       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75    | 429      | 0.235     | ug/l # | 47       |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180   | 2698     | 3.466     | ug/l   | 90       |
| 95) Naphthalene               | 15.504 | 128   | 8640     | 5.589     | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180   | 3111     | 3.309     | ug/l   | 92       |
| -----                         |        |       |          |           |        |          |

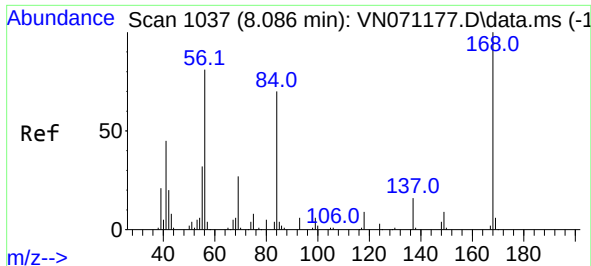
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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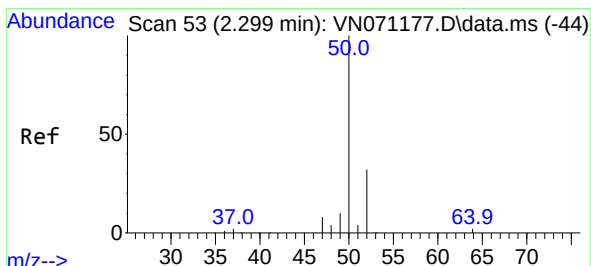
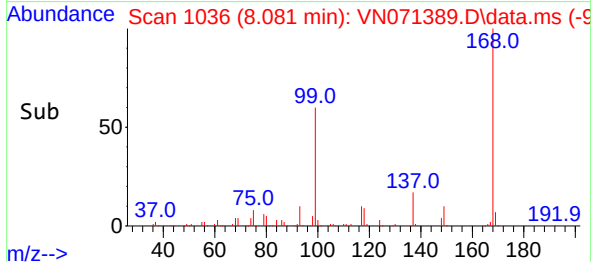
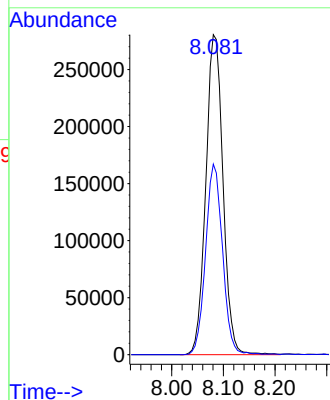
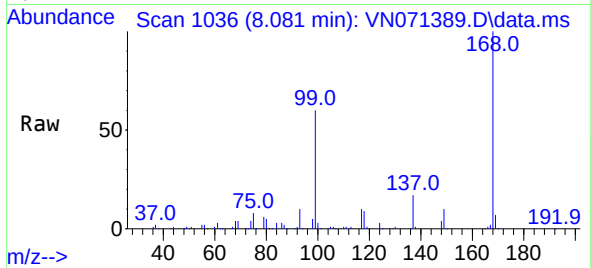




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.081 min Scan# 10  
Delta R.T. -0.005 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

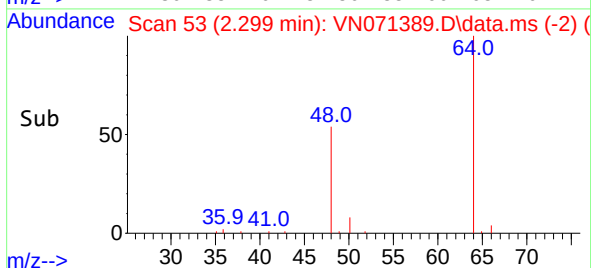
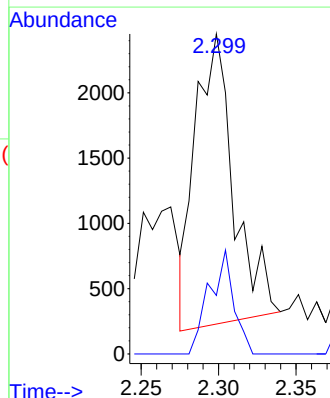
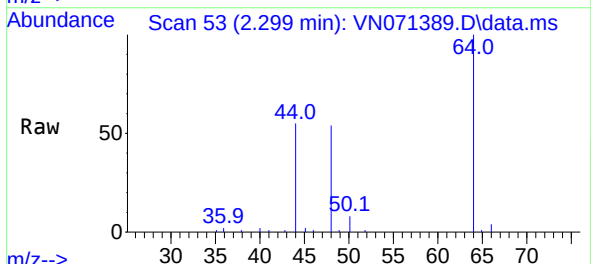
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

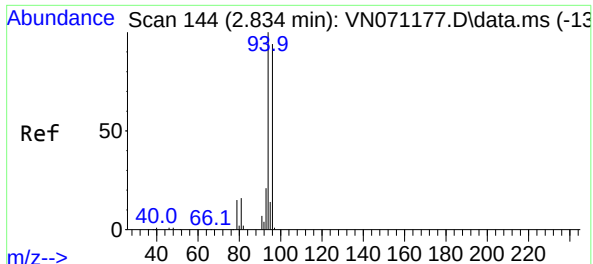
Tgt Ion:168 Resp: 648693  
Ion Ratio Lower Upper  
168 100  
99 59.6 41.3 61.9



#3  
Chloromethane  
Concen: 0.368 ug/l  
RT: 2.299 min Scan# 53  
Delta R.T. -0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 50 Resp: 3836  
Ion Ratio Lower Upper  
50 100  
52 21.1 25.4 38.0#

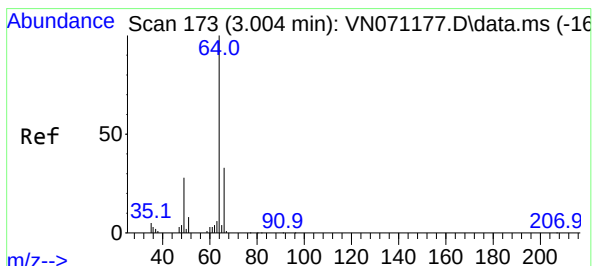
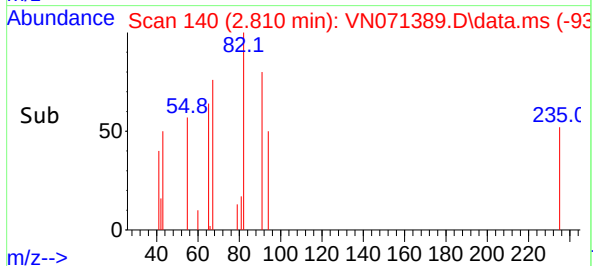
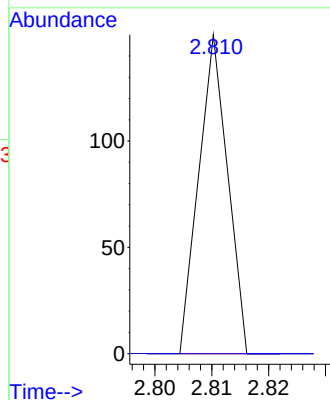
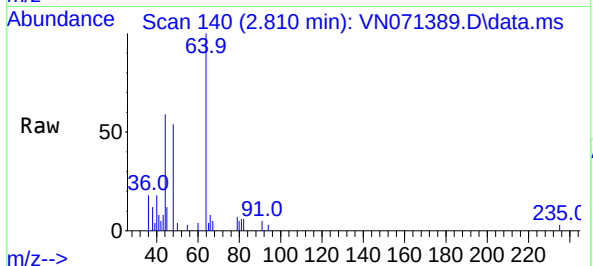




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.810 min Scan# 144  
Delta R.T. -0.024 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

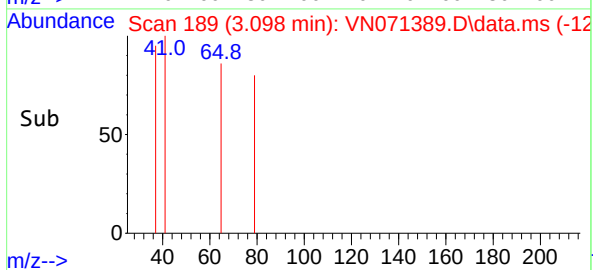
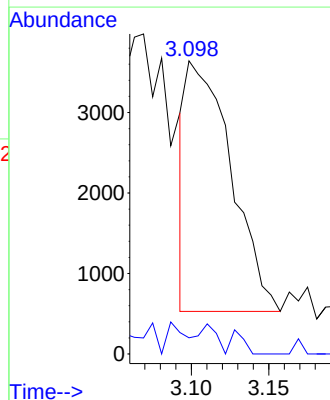
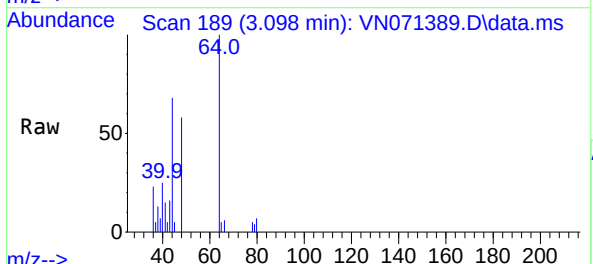
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

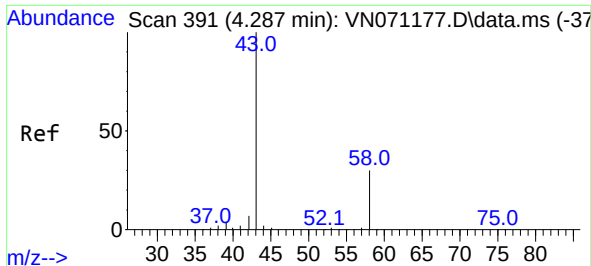
Tgt Ion: 94 Resp: 53  
Ion Ratio Lower Upper  
94 100  
96 0.0 73.8 110.8#



#6  
Chloroethane  
Concen: 1.191 ug/l  
RT: 3.098 min Scan# 189  
Delta R.T. 0.094 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 64 Resp: 6286  
Ion Ratio Lower Upper  
64 100  
66 6.5 26.3 39.5#

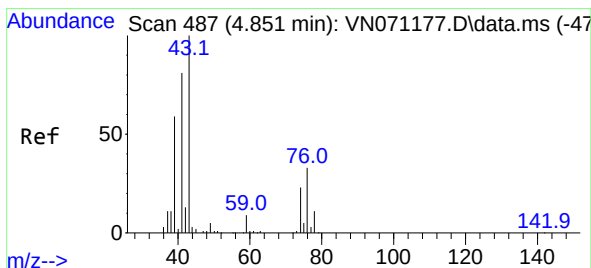
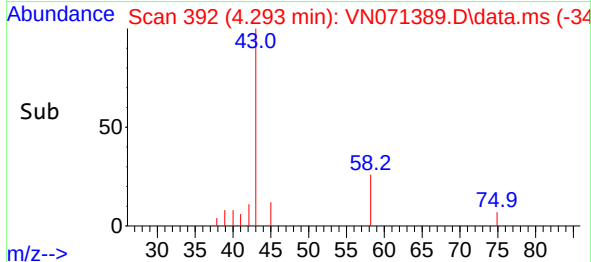
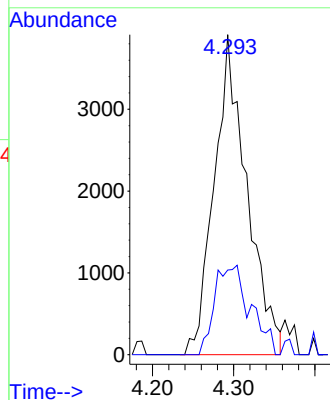
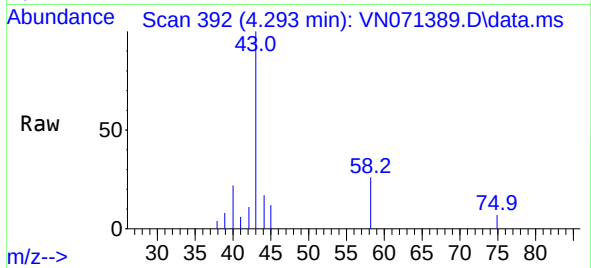




#16  
Acetone  
Concen: 2.532 ug/l  
RT: 4.293 min Scan# 391  
Delta R.T. 0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

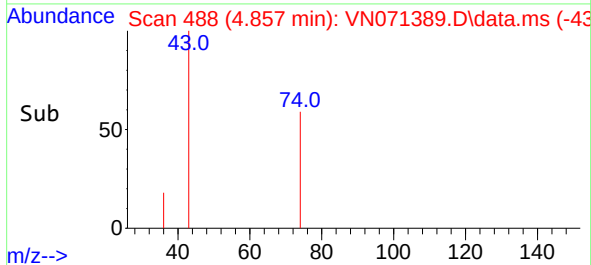
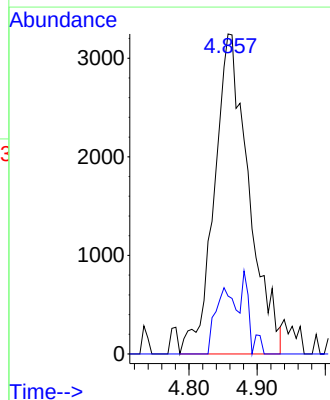
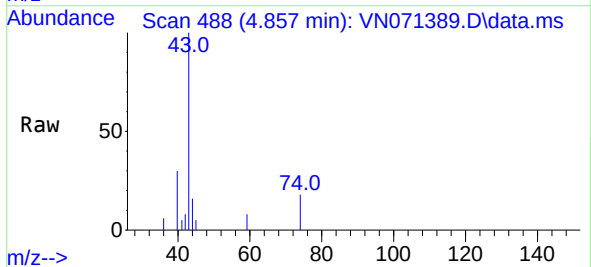
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

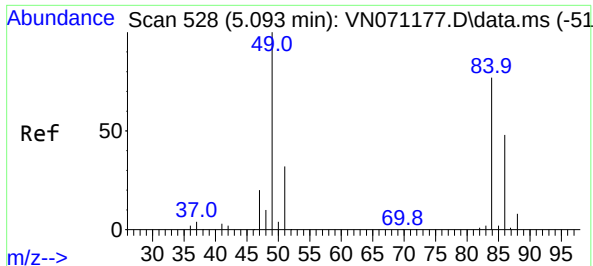
Tgt Ion: 43 Resp: 10953  
Ion Ratio Lower Upper  
43 100  
58 26.5 23.1 34.7



#18  
Methyl Acetate  
Concen: 1.442 ug/l  
RT: 4.857 min Scan# 488  
Delta R.T. 0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

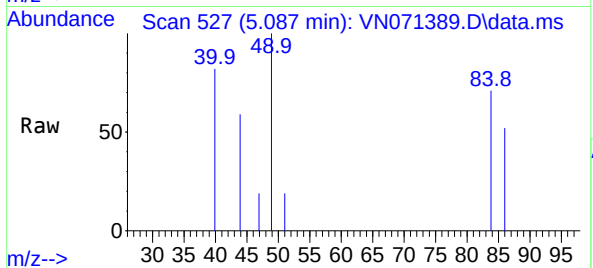
Tgt Ion: 43 Resp: 11400  
Ion Ratio Lower Upper  
43 100  
74 12.5 19.4 29.2#





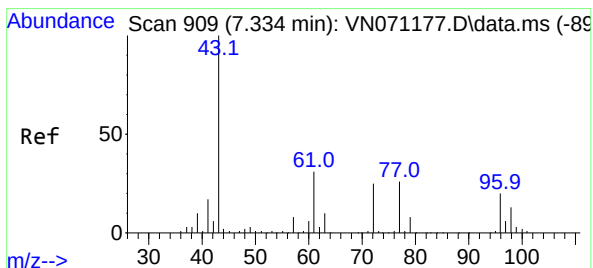
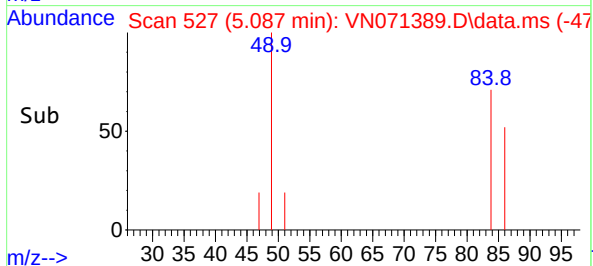
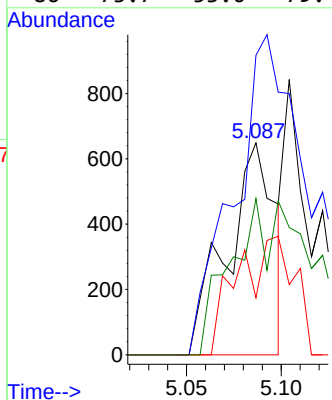
#20  
Methylene Chloride  
Concen: 0.523 ug/l  
RT: 5.087 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01



Tgt Ion: 84 Resp: 1128

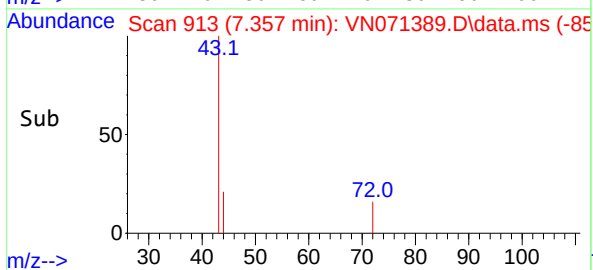
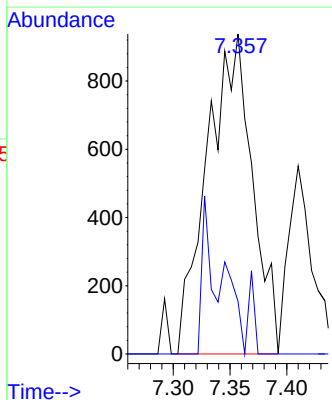
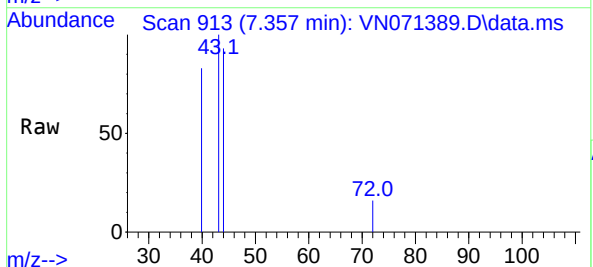
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 141.3 | 93.5  | 140.3# |
| 51  | 27.0  | 29.4  | 44.2#  |
| 86  | 73.7  | 53.0  | 79.4   |

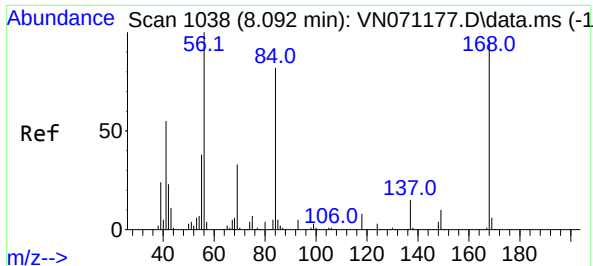


#25  
2-Butanone  
Concen: 0.373 ug/l  
RT: 7.357 min Scan# 913  
Delta R.T. 0.023 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 43 Resp: 2597

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 16.4  | 21.7  | 32.5# |





#31

Cyclohexane

Concen: 1.034 ug/l

RT: 8.075 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN071389.D

Acq: 19 Mar 2022 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0319WBL01

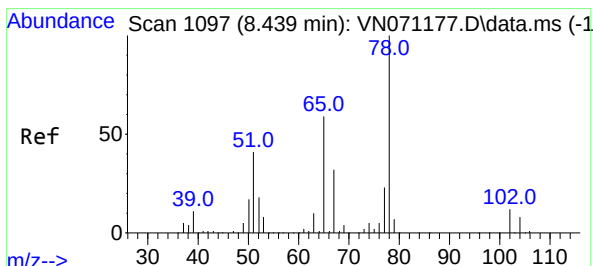
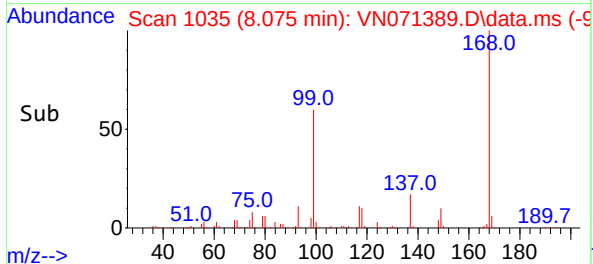
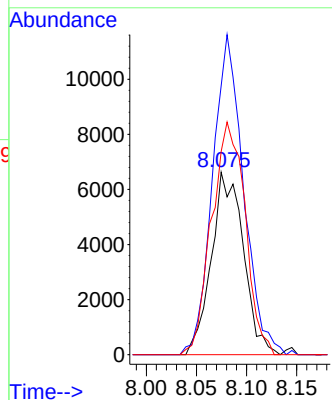
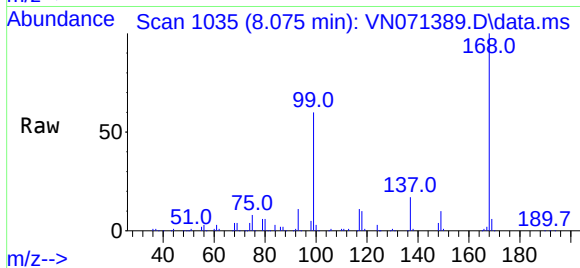
Tgt Ion: 56 Resp: 14684

Ion Ratio Lower Upper

56 100

69 147.4 27.1 40.7#

84 111.4 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 47.313 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071389.D

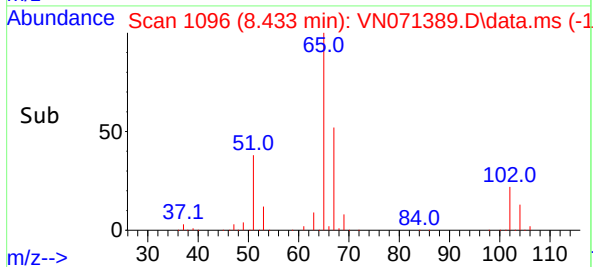
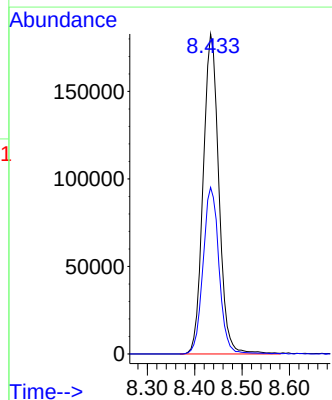
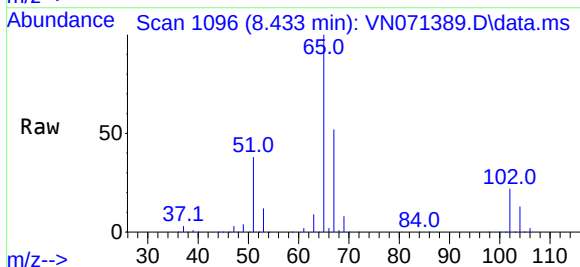
Acq: 19 Mar 2022 11:30

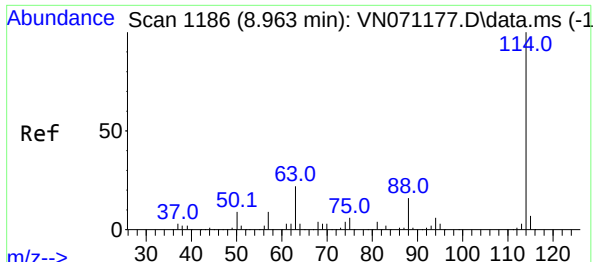
Tgt Ion: 65 Resp: 420643

Ion Ratio Lower Upper

65 100

67 52.7 0.0 103.0

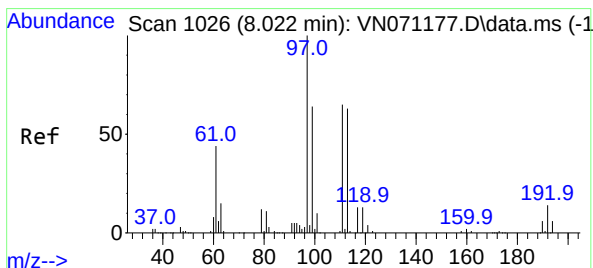
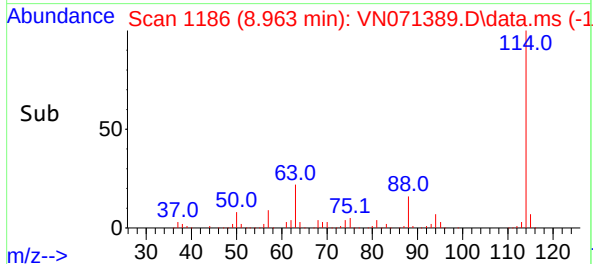
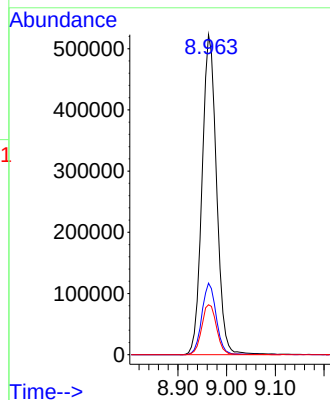
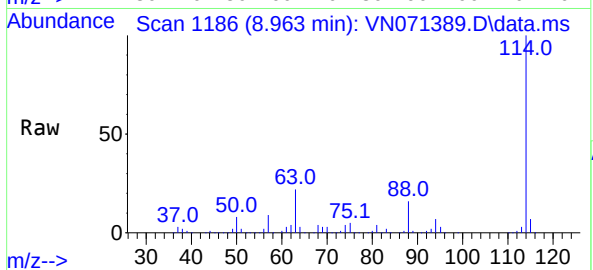




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. -0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

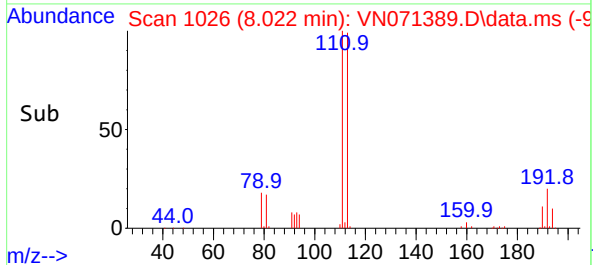
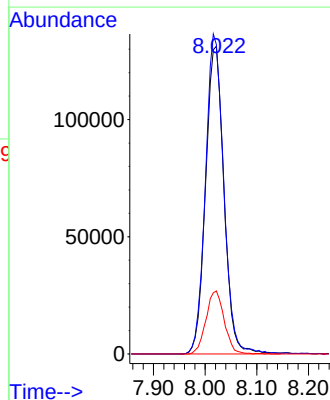
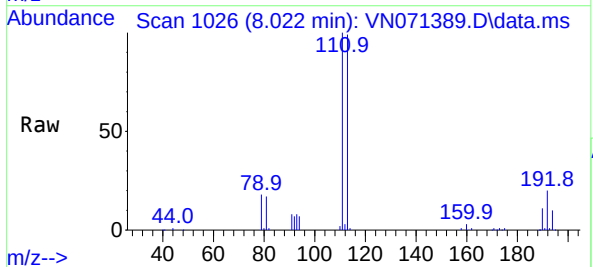
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

Tgt Ion:114 Resp: 1081153  
Ion Ratio Lower Upper  
114 100  
63 22.4 0.0 37.8  
88 15.6 0.0 27.4

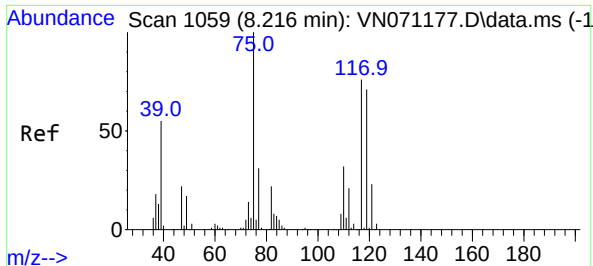


#35  
Dibromofluoromethane  
Concen: 47.502 ug/l  
RT: 8.022 min Scan# 1026  
Delta R.T. -0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion:113 Resp: 324081  
Ion Ratio Lower Upper  
113 100  
111 103.6 82.2 123.2  
192 20.3 16.9 25.3







#36

1,1-Dichloropropene

Concen: 4.731 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071389.D

Acq: 19 Mar 2022 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0319WBL01

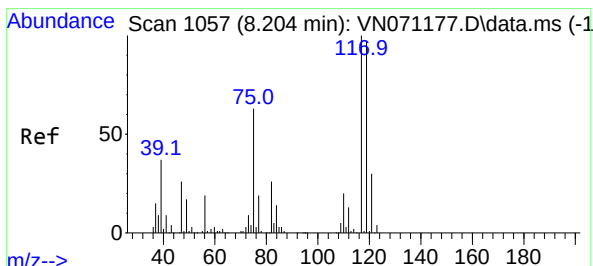
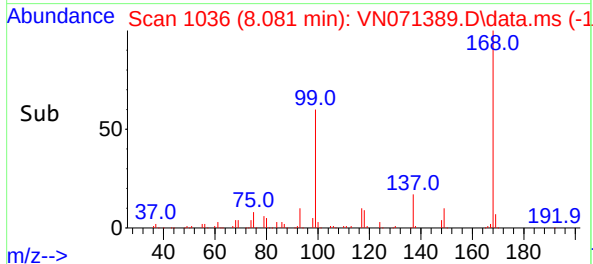
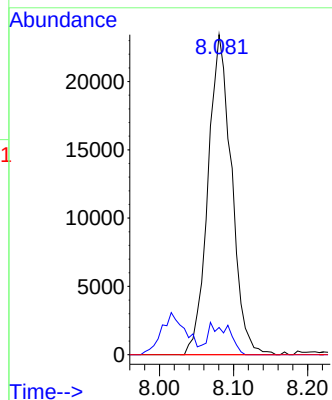
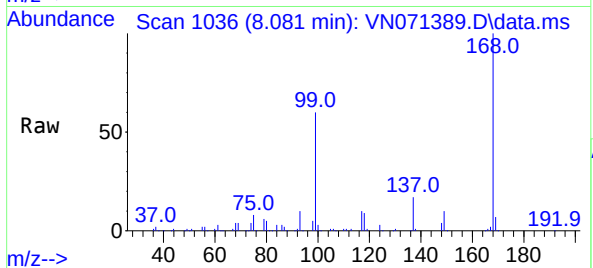
Tgt Ion: 75 Resp: 51719

Ion Ratio Lower Upper

75 100

110 9.3 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.113 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.124 min

Lab File: VN071389.D

Acq: 19 Mar 2022 11:30

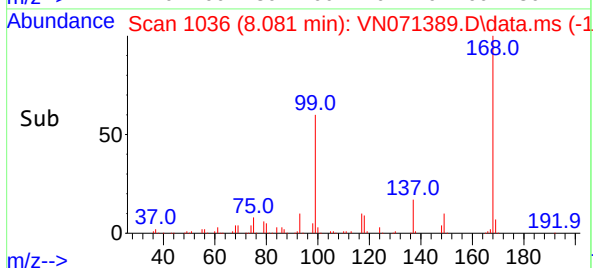
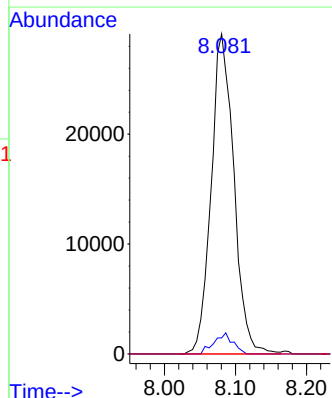
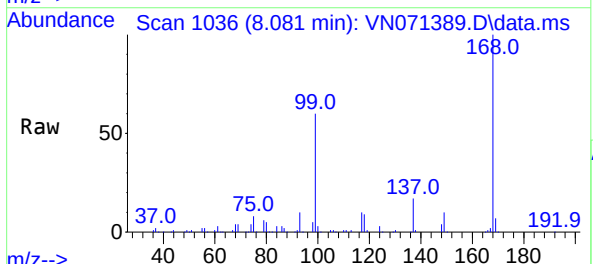
Tgt Ion: 117 Resp: 64637

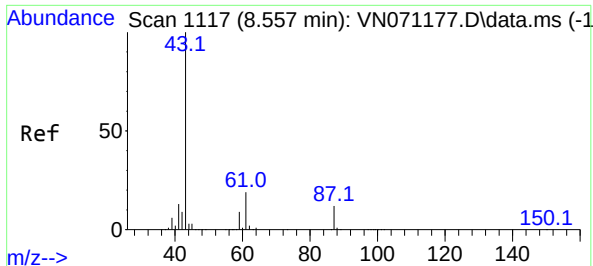
Ion Ratio Lower Upper

117 100

119 5.0 76.1 114.1#

121 0.0 24.2 36.2#

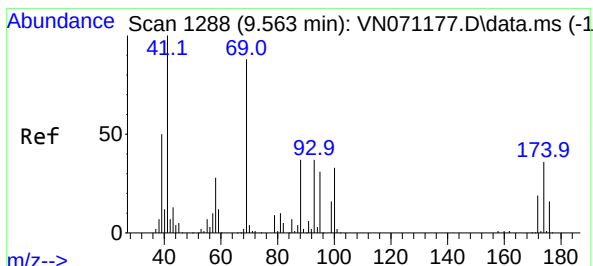
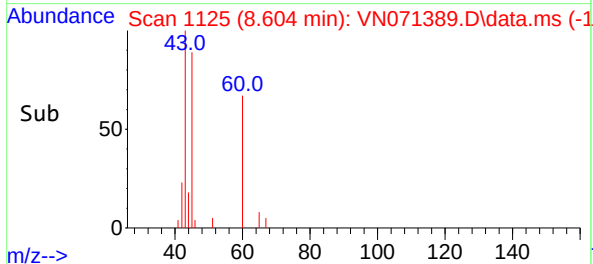
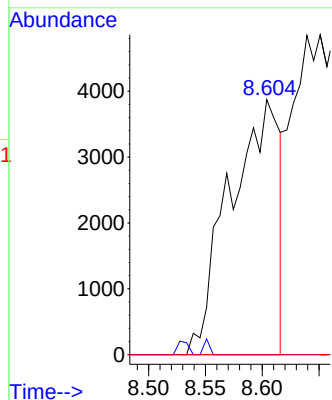
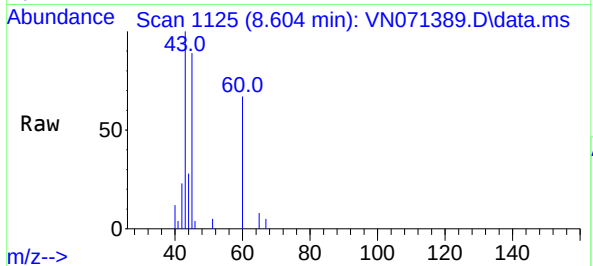




#43  
Isopropyl Acetate  
Concen: 0.522 ug/l  
RT: 8.604 min Scan# 1117  
Delta R.T. 0.047 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

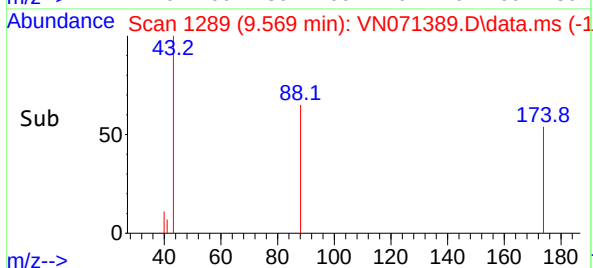
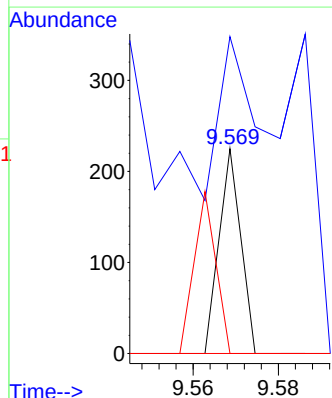
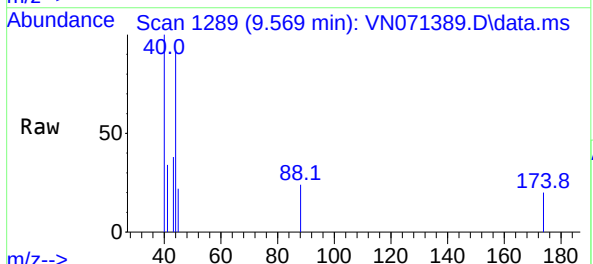
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

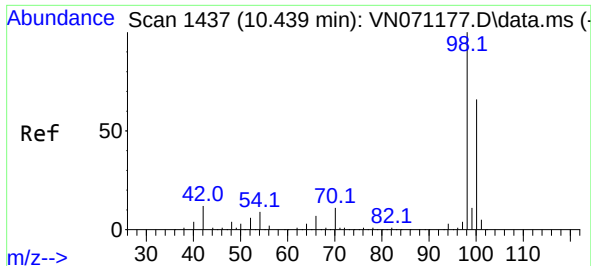
Tgt Ion: 43 Resp: 11738  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 11.2 16.8#



#49  
1,4-Dioxane  
Concen: 0.436 ug/l  
RT: 9.569 min Scan# 1289  
Delta R.T. 0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 88 Resp: 79  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.4 35.2#  
58 79.7 50.6 75.8#

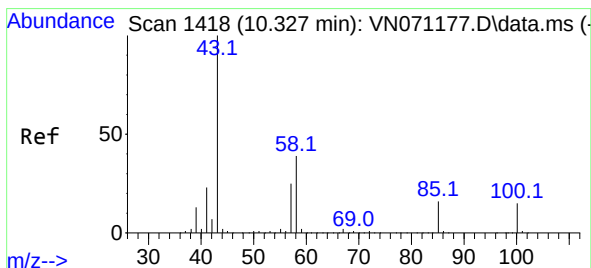
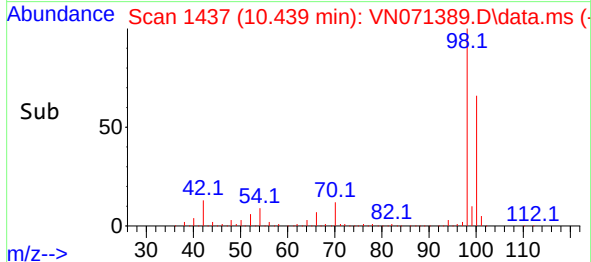
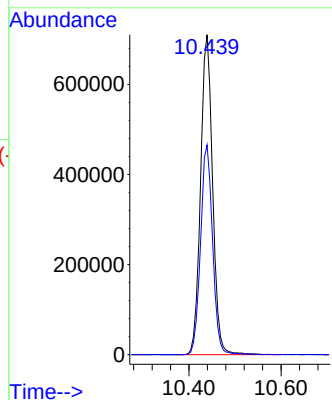
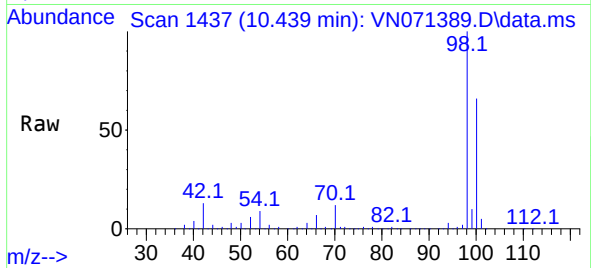




#50  
Toluene-d8  
Concen: 47.096 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

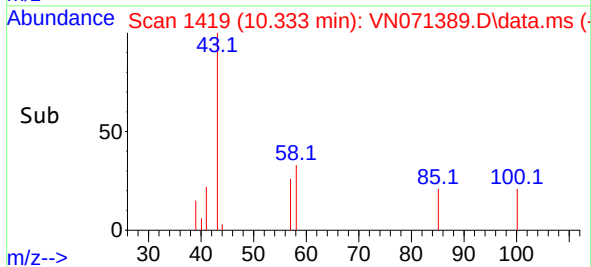
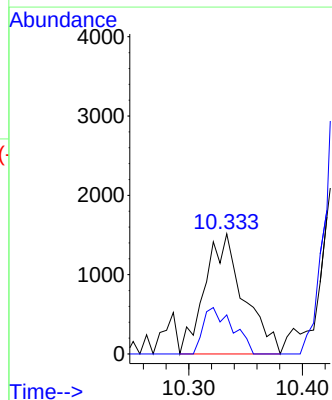
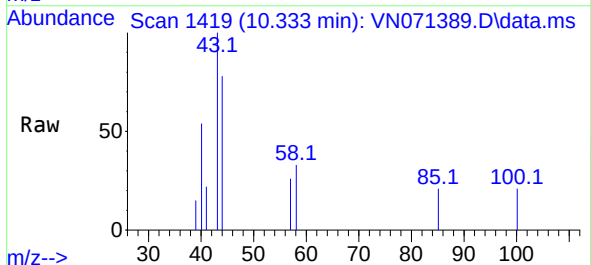
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

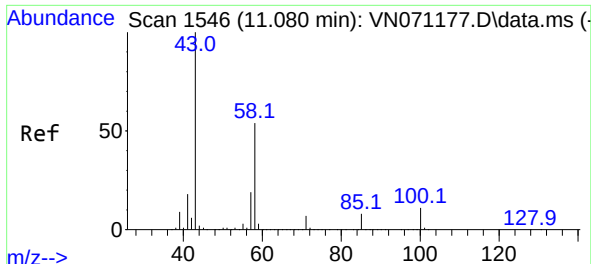
Tgt Ion: 98 Resp: 1293700  
Ion Ratio Lower Upper  
98 100  
100 65.6 50.4 75.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.259 ug/l  
RT: 10.333 min Scan# 1419  
Delta R.T. 0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 43 Resp: 3611  
Ion Ratio Lower Upper  
43 100  
58 29.2 30.4 45.6#

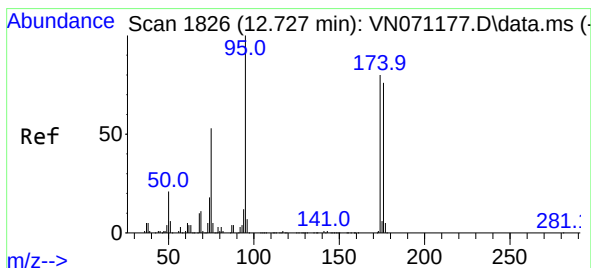
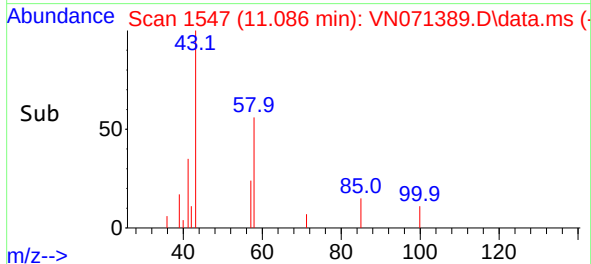
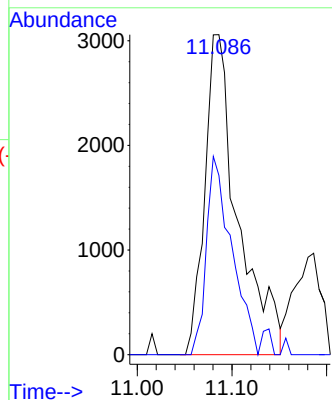
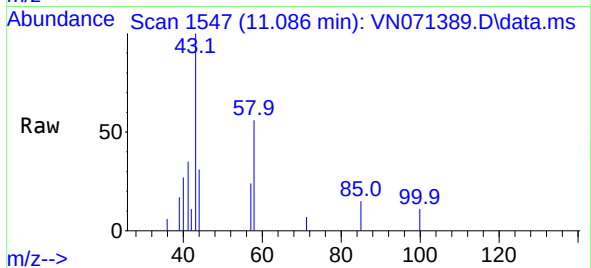




#59  
2-Hexanone  
Concen: 0.778 ug/l  
RT: 11.086 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

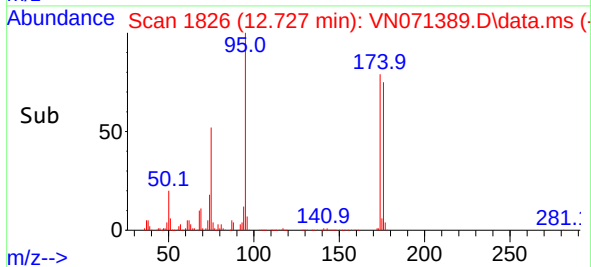
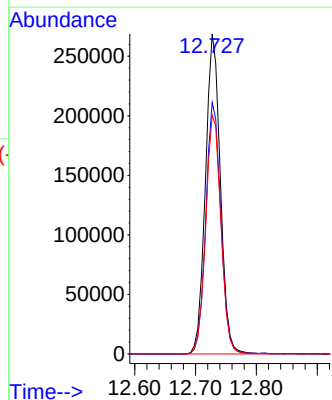
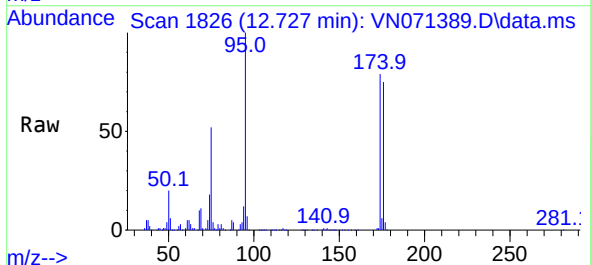
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

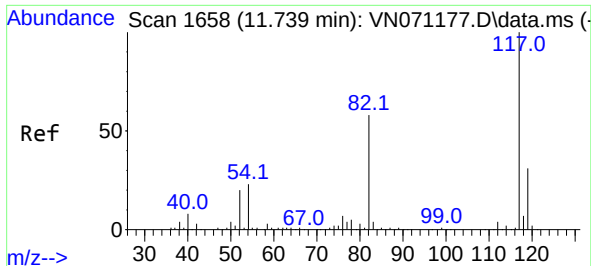
Tgt Ion: 43 Resp: 7407  
Ion Ratio Lower Upper  
43 100  
58 47.4 26.9 80.7



#62  
4-Bromofluorobenzene  
Concen: 49.143 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 95 Resp: 457118  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 187.2  
176 75.9 0.0 181.4

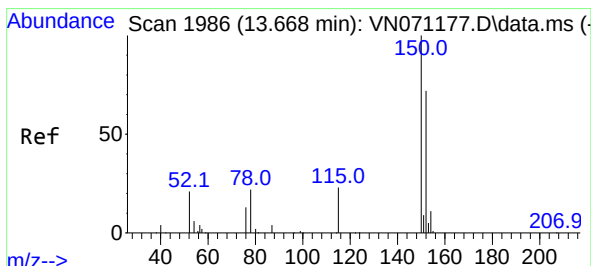
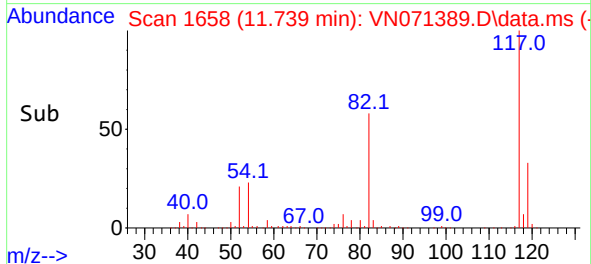
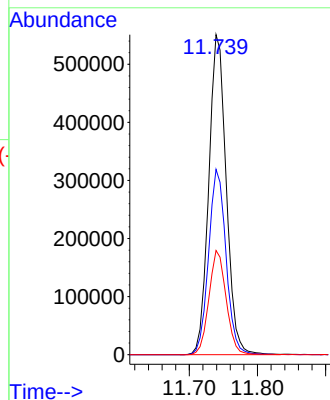
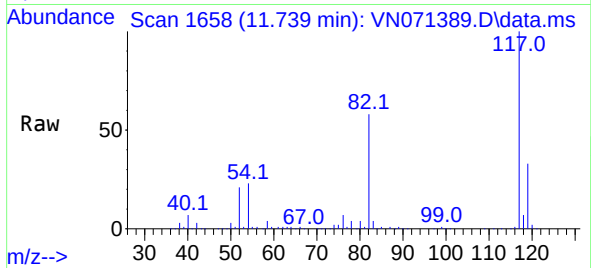




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

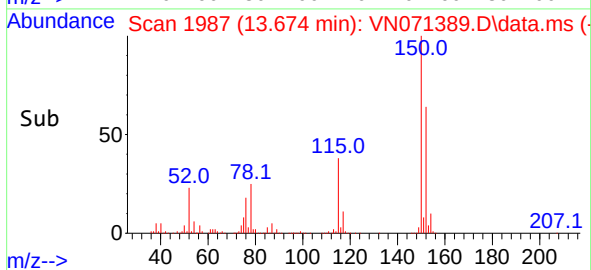
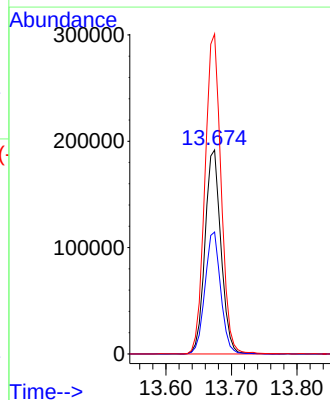
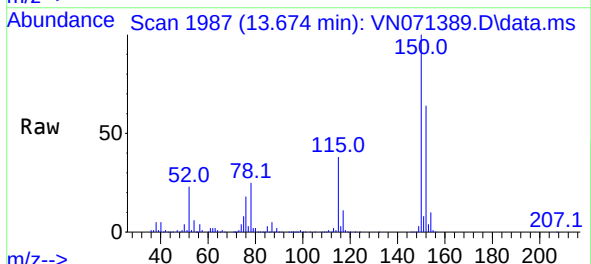
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

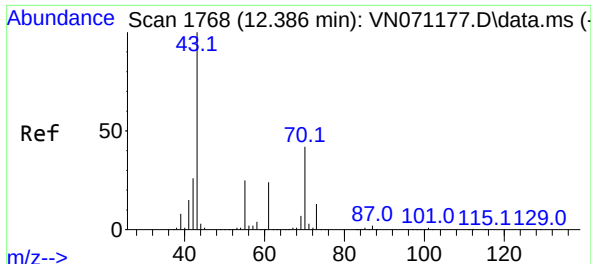
Tgt Ion:117 Resp: 982394  
Ion Ratio Lower Upper  
117 100  
82 57.9 42.4 63.6  
119 32.6 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.674 min Scan# 1987  
Delta R.T. 0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion:152 Resp: 324807  
Ion Ratio Lower Upper  
152 100  
115 59.0 27.5 82.5  
150 158.8 0.0 344.4



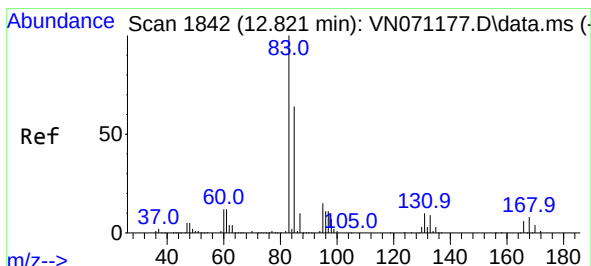
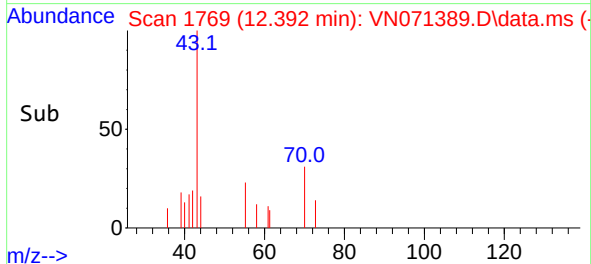
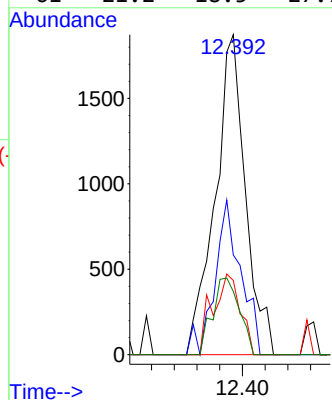
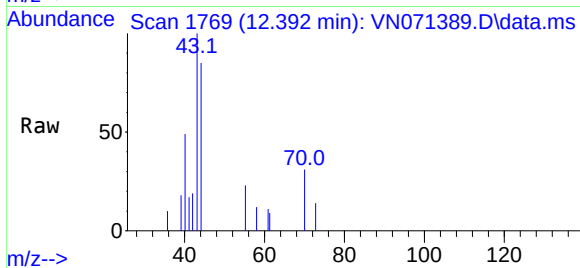


#74  
N-amy1 acetate  
Concen: 0.295 ug/l  
RT: 12.392 min Scan# 1769  
Delta R.T. 0.006 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

Tgt Ion: 43 Resp: 3475

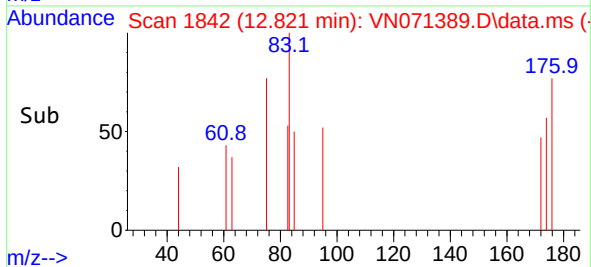
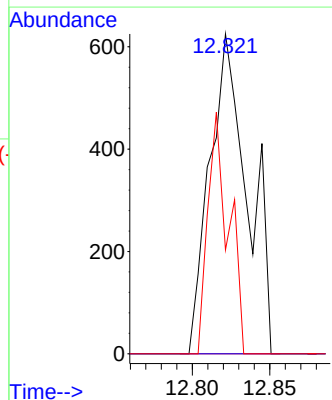
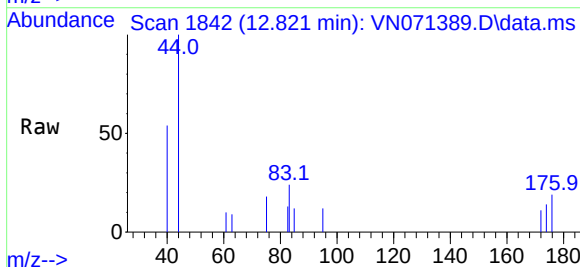
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 70  | 41.2  | 33.4  | 50.0  |
| 55  | 22.8  | 19.3  | 28.9  |
| 61  | 21.2  | 18.5  | 27.7  |

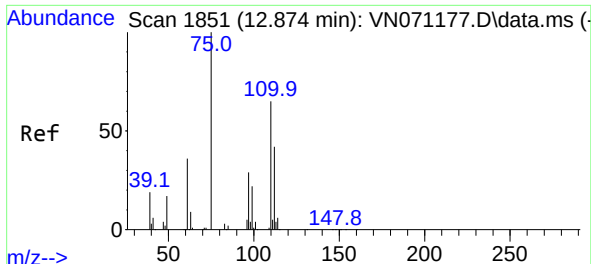


#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.821 min Scan# 1842  
Delta R.T. 0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 83 Resp: 1061

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 0.0   | 5.5   | 16.5  |
| 85  | 41.5  | 32.4  | 97.2  |

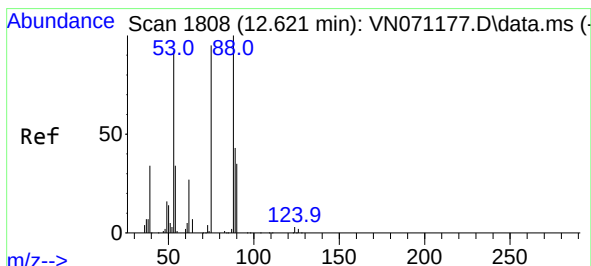
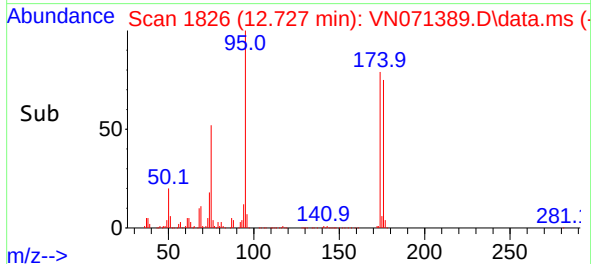
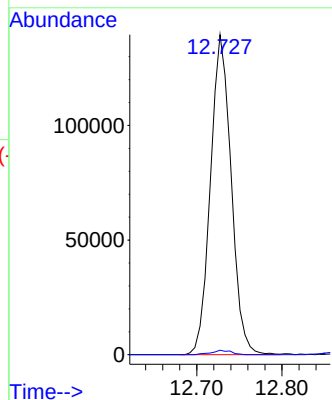
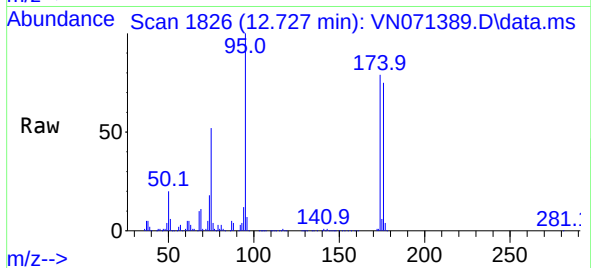




#76  
1,2,3-Trichloropropane  
Concen: 28.816 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.147 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

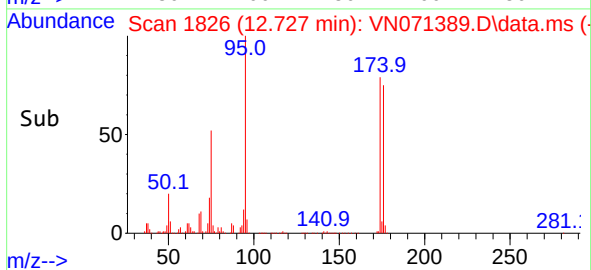
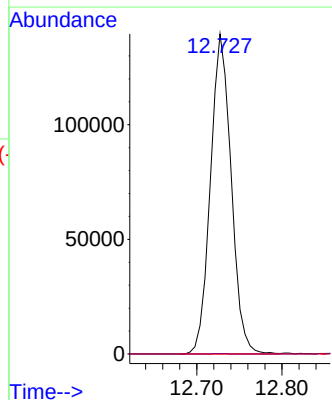
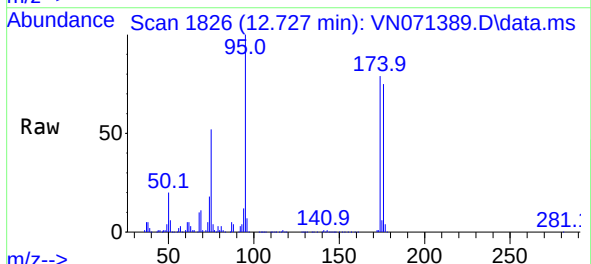
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

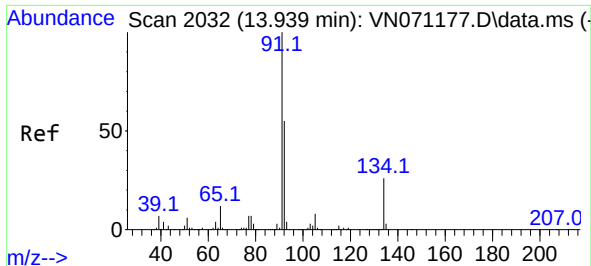
Tgt Ion: 75 Resp: 236263  
Ion Ratio Lower Upper  
75 100  
77 1.3 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.631 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.106 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 75 Resp: 236263  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#



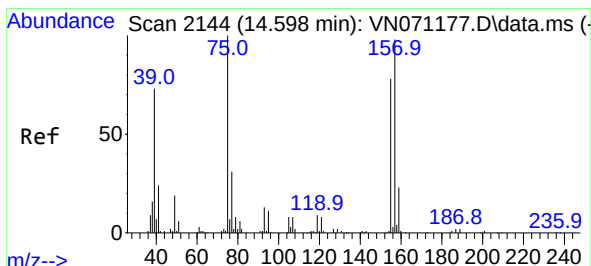
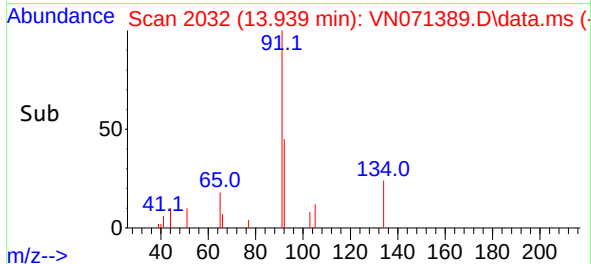
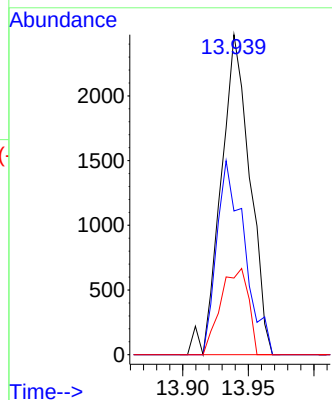
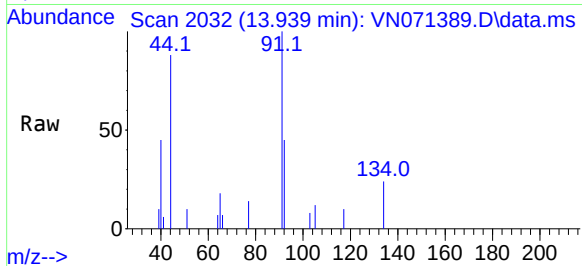


#89  
n-Butylbenzene  
Concen: 0.214 ug/l  
RT: 13.939 min Scan# 2032  
Delta R.T. -0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

Tgt Ion: 91 Resp: 3795

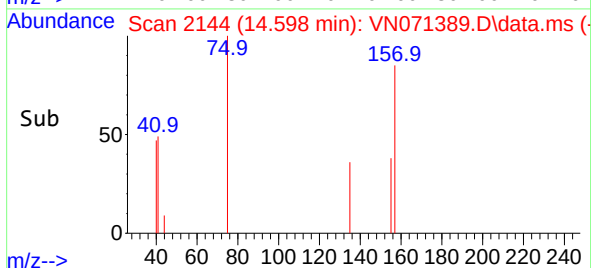
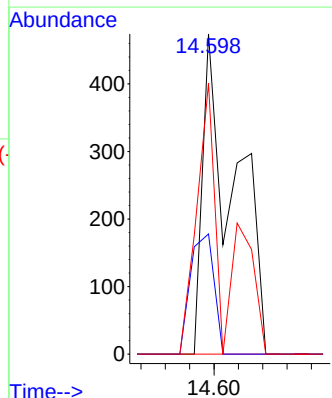
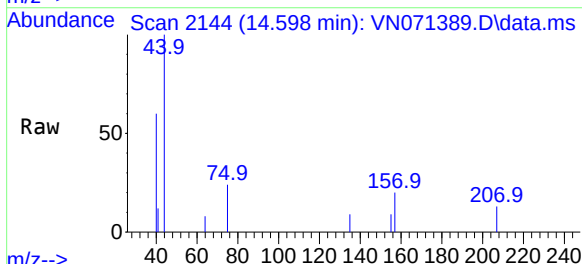
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 58.0  | 25.4  | 76.0  |
| 134 | 25.9  | 13.6  | 40.8  |



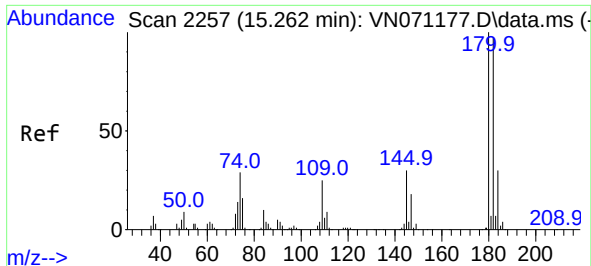
#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.235 ug/l  
RT: 14.598 min Scan# 2144  
Delta R.T. -0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

Tgt Ion: 75 Resp: 429

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 155 | 27.7  | 46.9  | 140.7# |
| 157 | 76.2  | 60.6  | 181.7  |



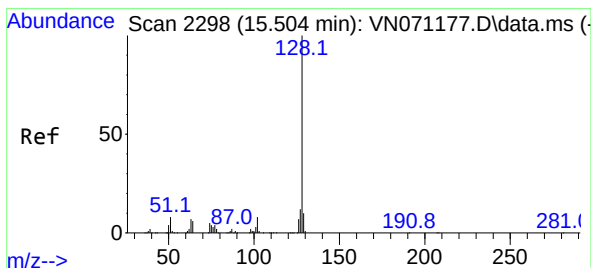
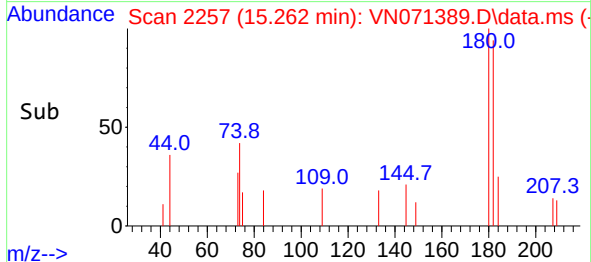
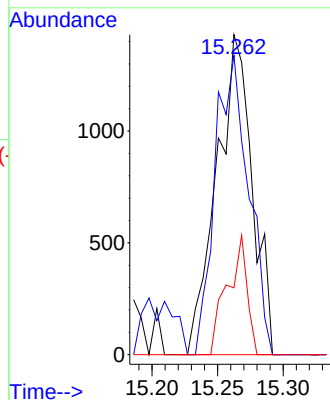
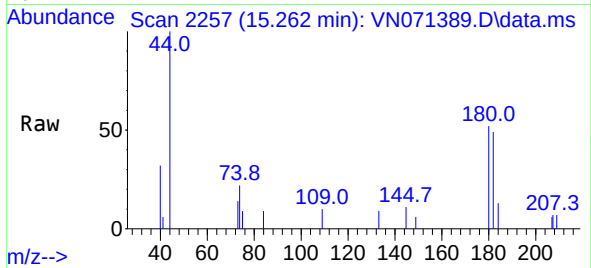




#93  
1,2,4-Trichlorobenzene  
Concen: 3.466 ug/l  
RT: 15.262 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

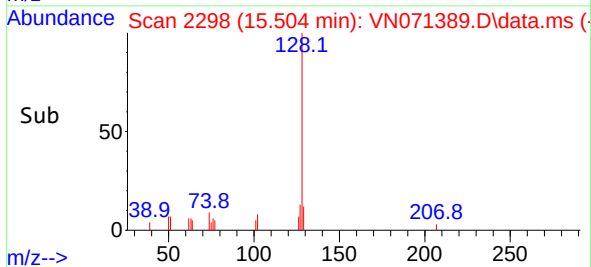
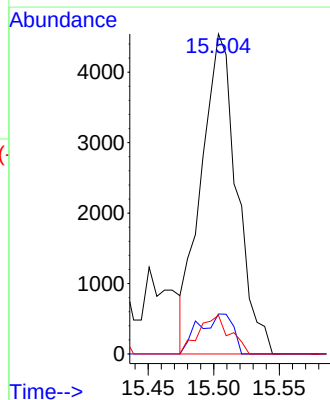
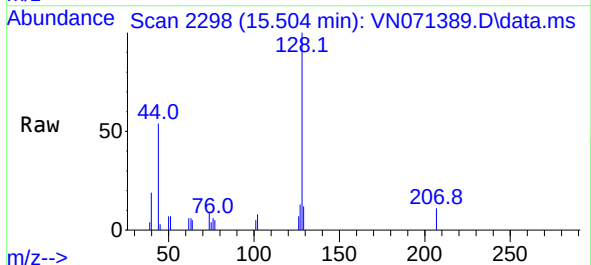
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319WBL01

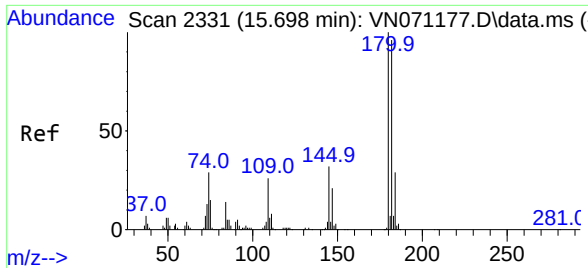
Tgt Ion:180 Resp: 2698  
Ion Ratio Lower Upper  
180 100  
182 88.3 48.3 144.9  
145 20.8 14.5 43.5



#95  
Naphthalene  
Concen: 5.589 ug/l  
RT: 15.504 min Scan# 2298  
Delta R.T. -0.000 min  
Lab File: VN071389.D  
Acq: 19 Mar 2022 11:30

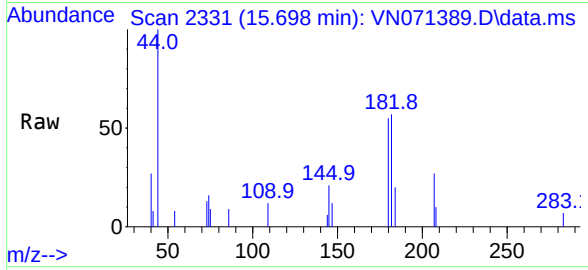
Tgt Ion:128 Resp: 8640  
Ion Ratio Lower Upper  
128 100  
127 11.8 10.5 15.7  
129 10.5 8.7 13.1





#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.309 ug/l  
 RT: 15.698 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN071389.D  
 Acq: 19 Mar 2022 11:30

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0319WBL01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 3111  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 85.5  | 47.4  | 142.2 |
| 145      | 28.8  | 15.0  | 45.1  |

