

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081921\  
 Data File : VN068224.D  
 Acq On : 19 Aug 2021 18:18  
 Operator : JC/MD  
 Sample : PB138556ZHE#03  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 20 01:55:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 13:09:49 2021  
 Response via : Initial Calibration

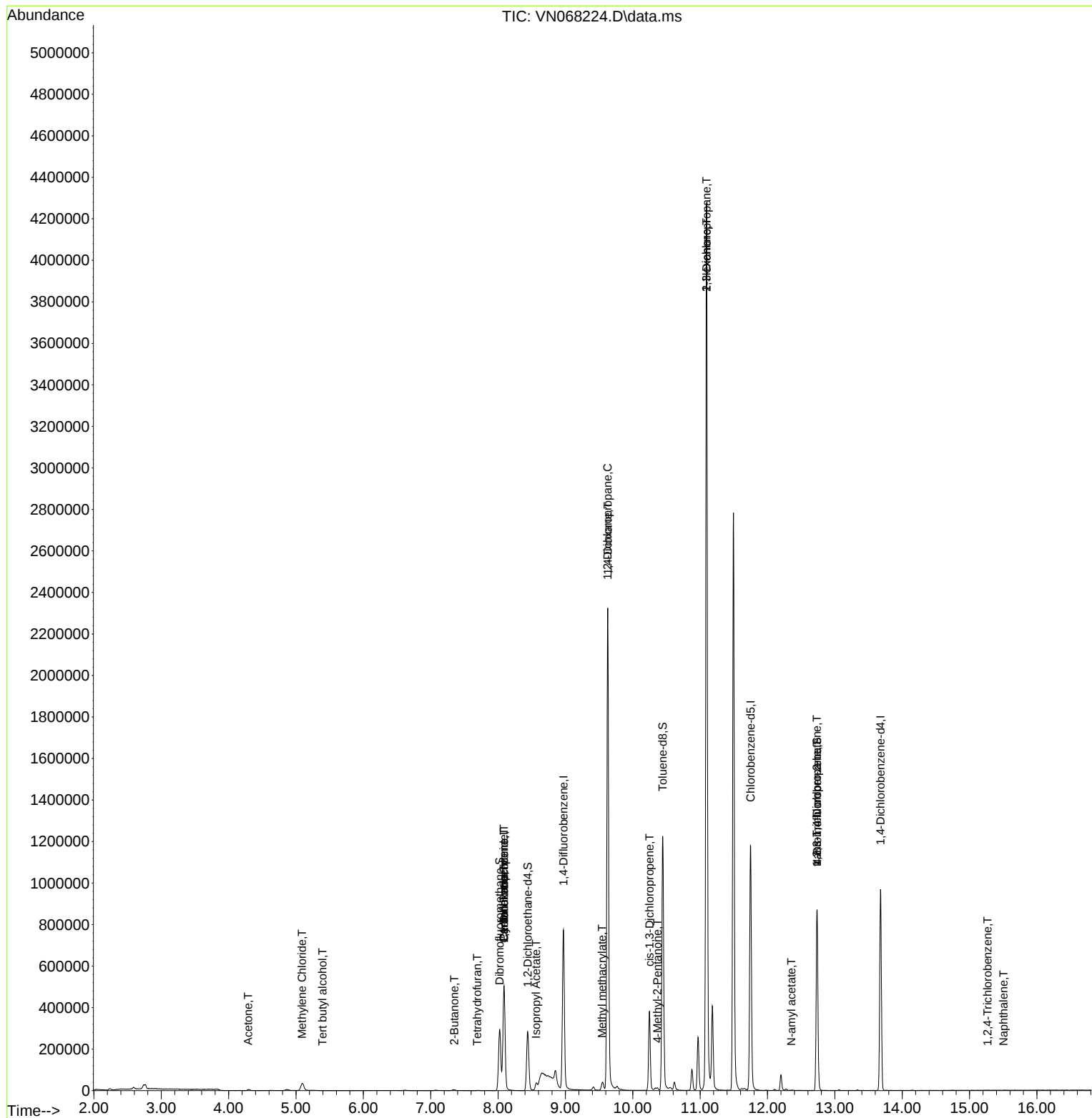
| Compound                      | R.T.           | QIon | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------|------------|--------|----------|
| -----                         |                |      |          |            |        |          |
| Internal Standards            |                |      |          |            |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 415792   | 50.000     | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.971          | 114  | 734370   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.749         | 117  | 776409   | 50.000     | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.678         | 152  | 290121   | 50.000     | ug/l   | 0.00     |
|                               |                |      |          |            |        |          |
| System Monitoring Compounds   |                |      |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 240641   | 54.204     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery | = 108.400% |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 215644   | 46.772     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery | = 93.540%  |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 905319   | 51.533     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery | = 103.060% |        |          |
| 62) 4-Bromofluorobenzene      | 12.736         | 95   | 298561   | 51.051     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery | = 102.100% |        |          |
|                               |                |      |          |            |        |          |
| Target Compounds              |                |      |          |            |        | Qvalue   |
| 5) Bromomethane               | 2.867          | 94   | 1115     | Below Cal  | #      | 60       |
| 6) Chloroethane               | 3.092          | 64   | 326      | Below Cal  | #      | 44       |
| 11) Tert butyl alcohol        | 5.393          | 59   | 351      | 0.634      | ug/l # | 71       |
| 13) Acrolein                  | 4.036          | 56   | 86       | Below Cal  | #      | 52       |
| 16) Acetone                   | 4.288          | 43   | 10382    | 8.010      | ug/l   | 95       |
| 20) Methylene Chloride        | 5.090          | 84   | 29976    | 6.509      | ug/l # | 78       |
| 25) 2-Butanone                | 7.351          | 43   | 5330     | 2.639      | ug/l   | 98       |
| 29) Tetrahydrofuran           | 7.691          | 42   | 328      | 0.254      | ug/l # | 48       |
| 31) Cyclohexane               | 8.088          | 56   | 7178     | 1.228      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.086          | 75   | 28055    | 4.673      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 38889    | 5.617      | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.566          | 43   | 42110    | 5.140      | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.625          | 63   | 3090     | 0.717      | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.545          | 41   | 8599     | 2.519      | ug/l # | 12       |
| 49) 1,4-Dioxane               | 9.630          | 88   | 330      | 3.999      | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.365         | 43   | 7480     | 1.486      | ug/l # | 39       |
| 54) cis-1,3-Dichloropropene   | 10.247         | 75   | 74476    | 10.712     | ug/l # | 58       |
| 57) 1,3-Dichloropropane       | 11.095         | 76   | 48748    | 6.341      | ug/l # | 43       |
| 59) 2-Hexanone                | 11.095         | 43   | 588020   | 168.283    | ug/l # | 58       |
| 74) N-amyl acetate            | 12.355         | 43   | 1150     | 0.214      | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 12.733         | 75   | 150155   | 31.139     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.733         | 75   | 150155   | 102.016    | ug/l # | 6        |
| 93) 1,2,4-Trichlorobenzene    | 15.268         | 180  | 74       | 2.699      | ug/l # | 65       |
| 95) Naphthalene               | 15.504         | 128  | 636      | 3.396      | ug/l # | 69       |
| -----                         |                |      |          |            |        |          |

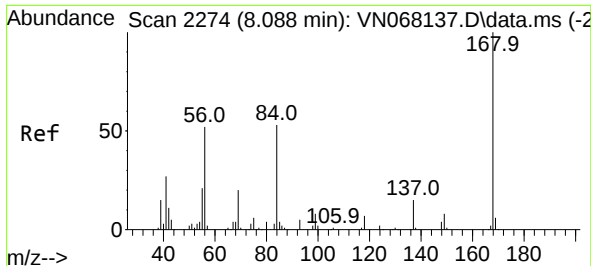
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081921\  
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Sample : PB138556ZHE#03  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Aug 20 01:55:34 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081721W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 17 13:09:49 2021  
Response via : Initial Calibration

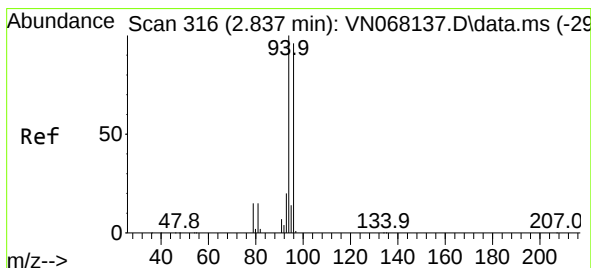
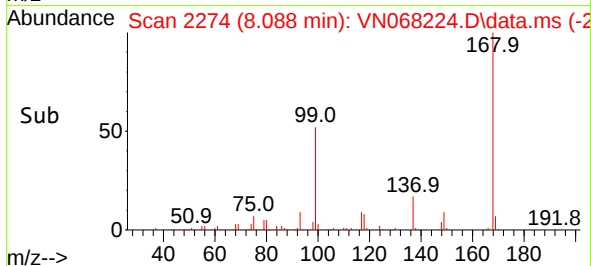
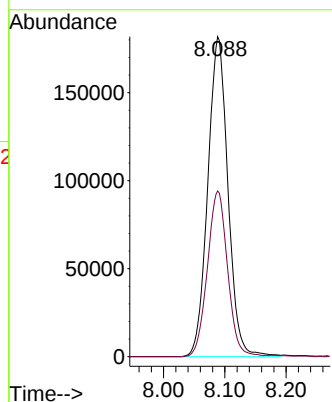
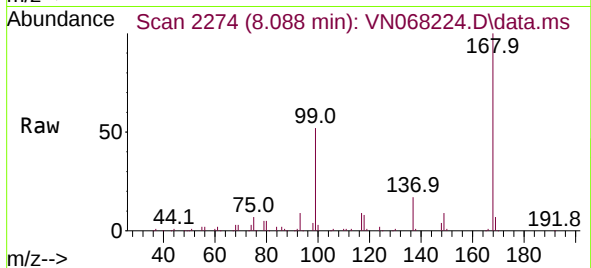




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.000 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

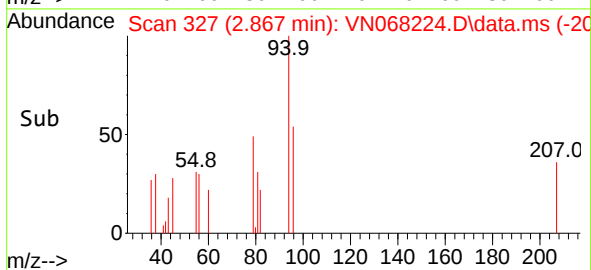
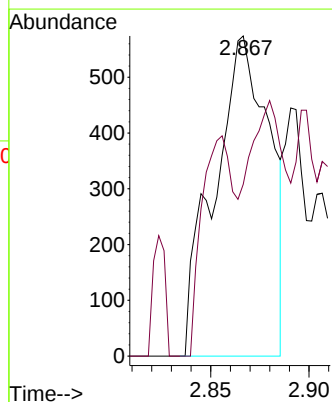
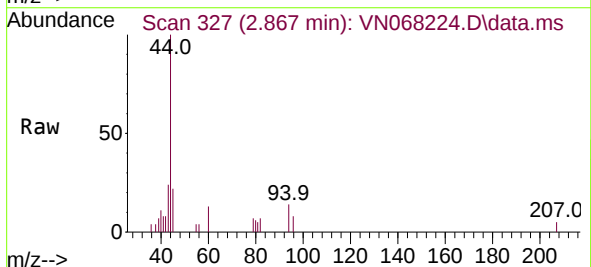
Instrument :  
MSVOA\_N  
ClientSampled :

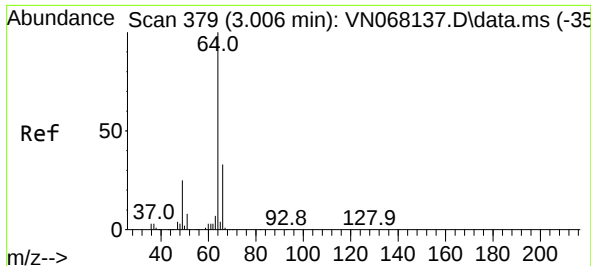
Tgt Ion:168 Resp: 415792  
Ion Ratio Lower Upper  
168 100  
99 51.8 62.9 94.3#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.867 min Scan# 327  
Delta R.T. 0.030 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 94 Resp: 1115  
Ion Ratio Lower Upper  
94 100  
96 53.7 73.7 110.5#

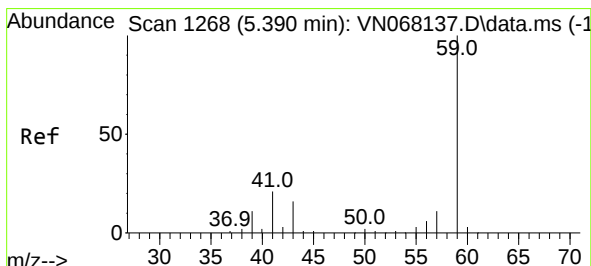
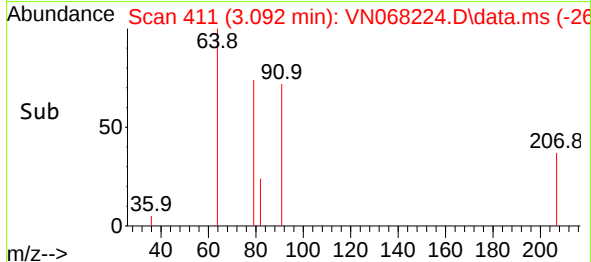
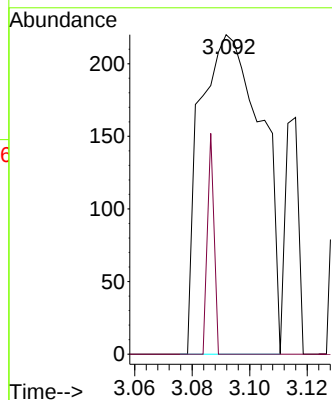
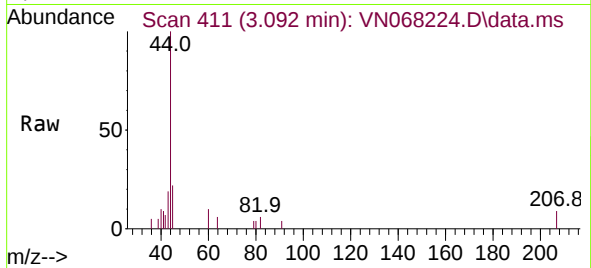




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.092 min Scan# 411  
Delta R.T. 0.086 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

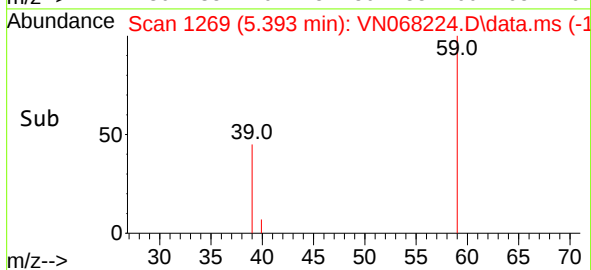
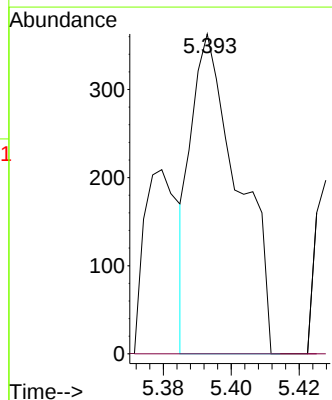
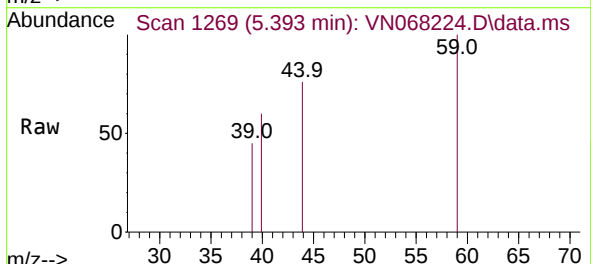
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 64 Resp: 326  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.7 37.1#



#11  
Tert butyl alcohol  
Concen: 0.634 ug/l  
RT: 5.393 min Scan# 1269  
Delta R.T. 0.003 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 59 Resp: 351  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#

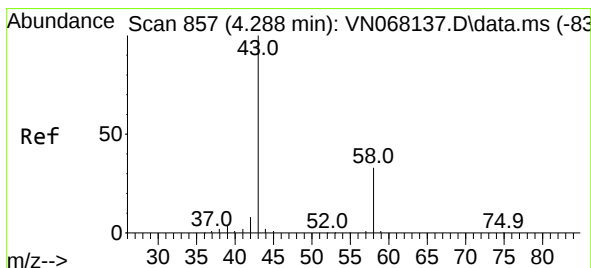
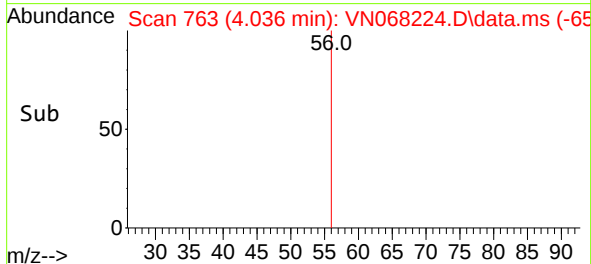
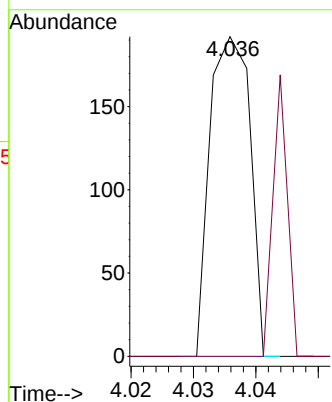
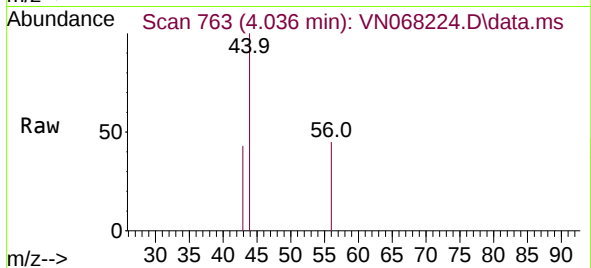




#13  
Acrolein  
Concen: Below Cal  
RT: 4.036 min Scan# 763  
Delta R.T. -0.003 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

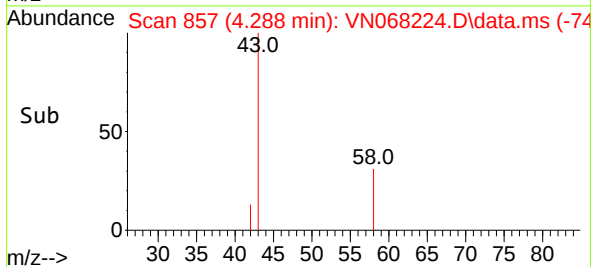
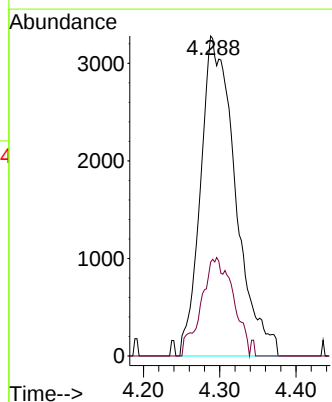
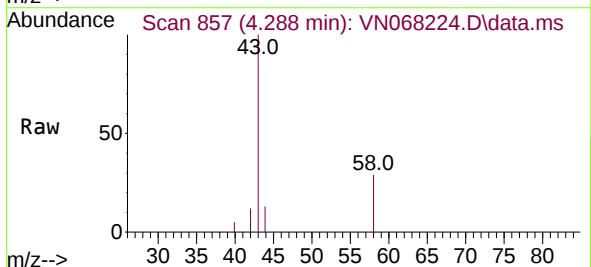
Instrument :  
MSVOA\_N  
ClientSampled :

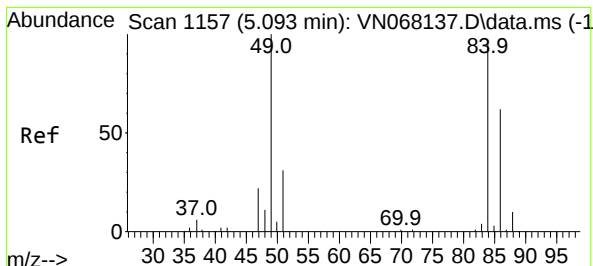
Tgt Ion: 56 Resp: 86  
Ion Ratio Lower Upper  
56 100  
55 31.4 57.4 86.0#



#16  
Acetone  
Concen: 8.010 ug/l  
RT: 4.288 min Scan# 857  
Delta R.T. -0.000 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 43 Resp: 10382  
Ion Ratio Lower Upper  
43 100  
58 29.3 21.2 31.8





#20

Methylene Chloride

Concen: 6.509 ug/l

RT: 5.090 min Scan# 1156

Delta R.T. -0.003 min

Lab File: VN068224.D

Acq: 19 Aug 2021 18:18

Tgt Ion: 84 Resp: 29976

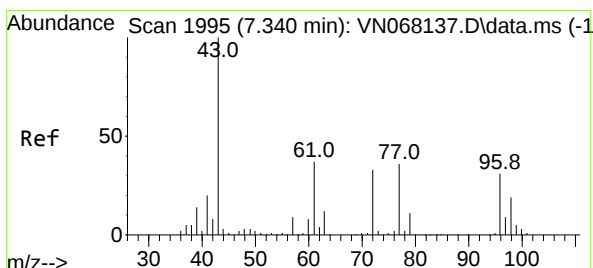
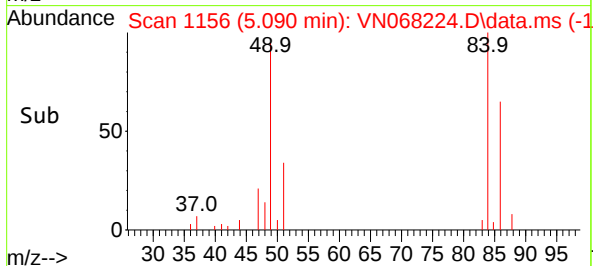
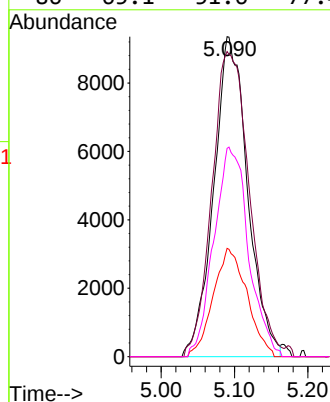
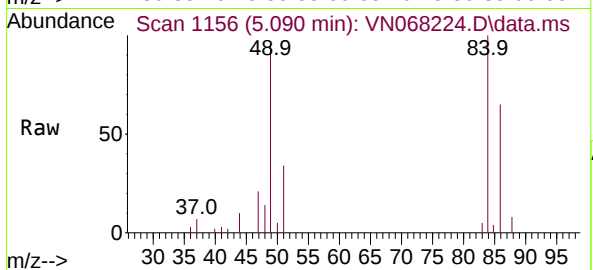
Ion Ratio Lower Upper

84 100

49 95.3 110.9 166.3#

51 33.8 32.6 49.0

86 65.1 51.6 77.4



#25

2-Butanone

Concen: 2.639 ug/l

RT: 7.351 min Scan# 1999

Delta R.T. 0.011 min

Lab File: VN068224.D

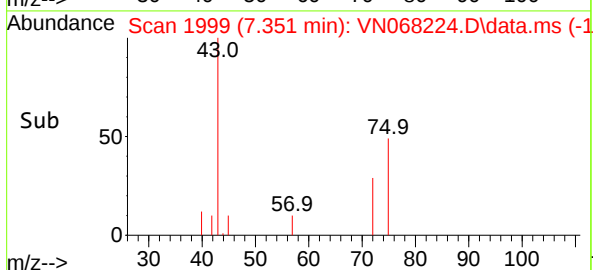
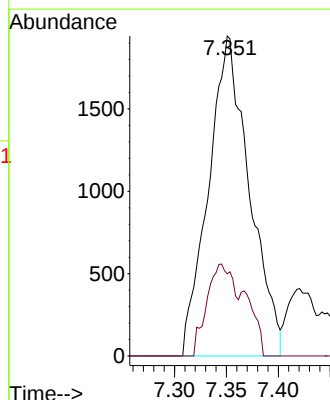
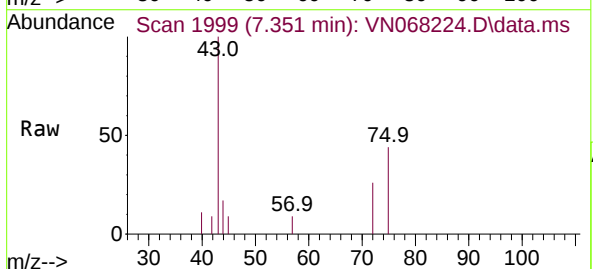
Acq: 19 Aug 2021 18:18

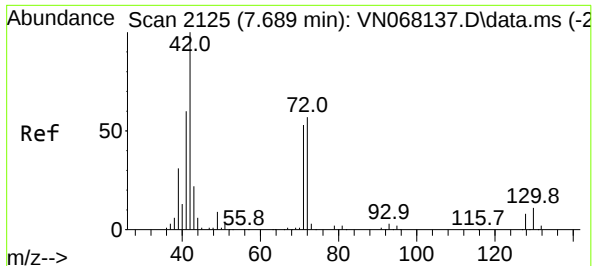
Tgt Ion: 43 Resp: 5330

Ion Ratio Lower Upper

43 100

72 25.7 19.7 29.5





#29

Tetrahydrofuran

Concen: 0.254 ug/l

RT: 7.691 min Scan# 2126

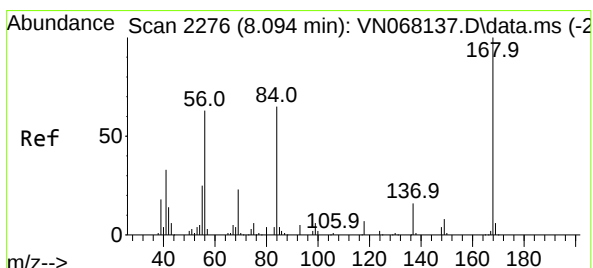
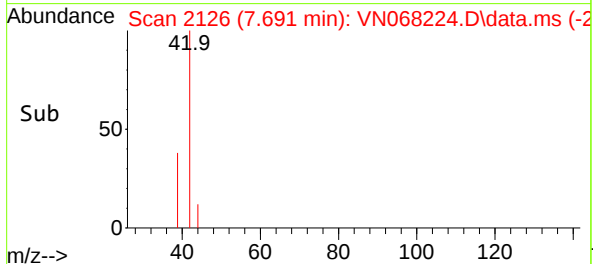
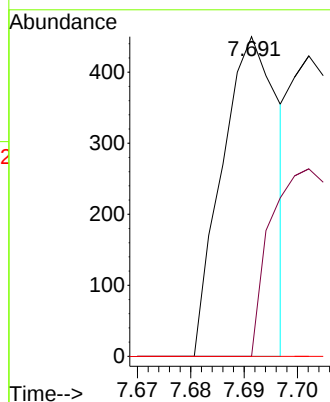
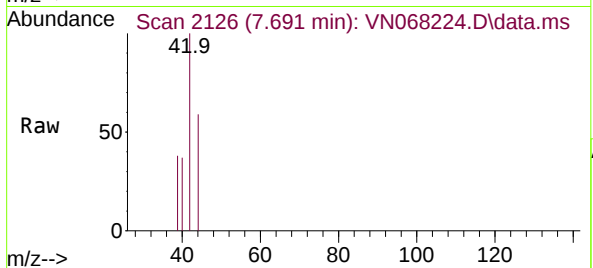
Delta R.T. 0.002 min

Lab File: VN068224.D

Acq: 19 Aug 2021 18:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 328   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 66.2  | 32.8  | 49.2# |
| 71       | 0.0   | 31.2  | 46.8# |

Instrument :  
MSVOA\_N  
ClientSampled :



#31

Cyclohexane

Concen: 1.228 ug/l

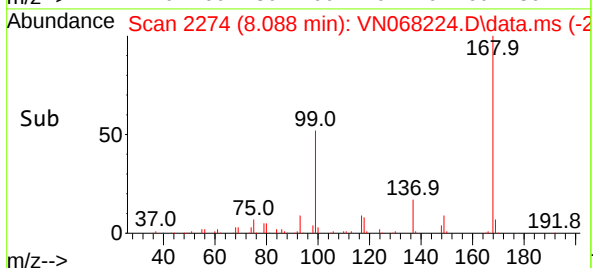
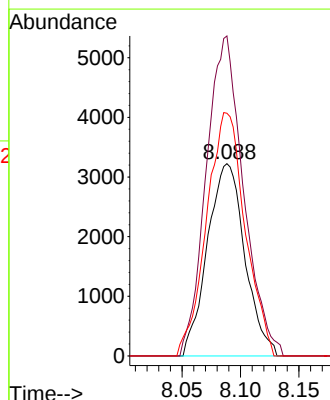
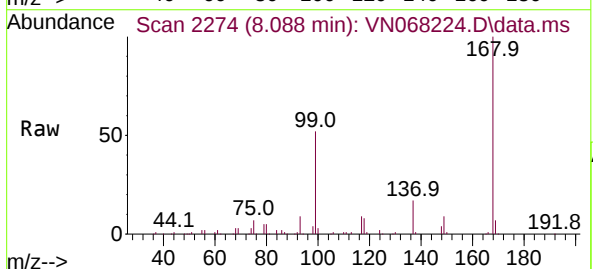
RT: 8.088 min Scan# 2274

Delta R.T. -0.006 min

Lab File: VN068224.D

Acq: 19 Aug 2021 18:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 7178  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 166.4 | 27.3  | 40.9# |
| 84       | 126.2 | 64.9  | 97.3# |

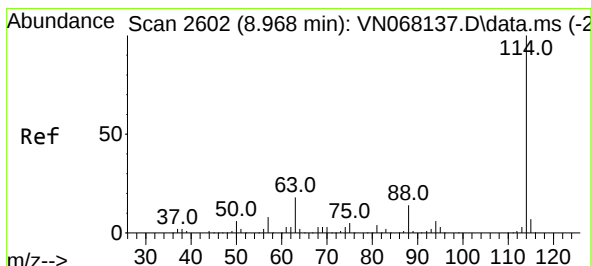
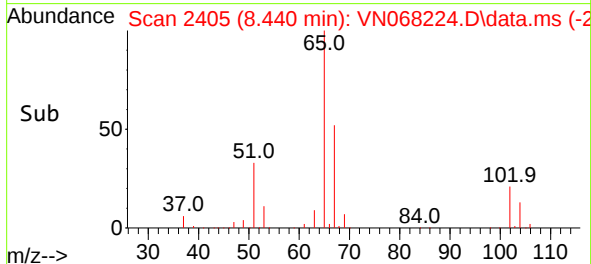
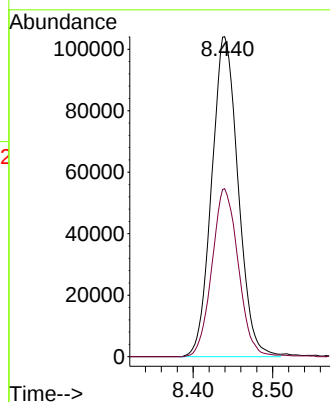
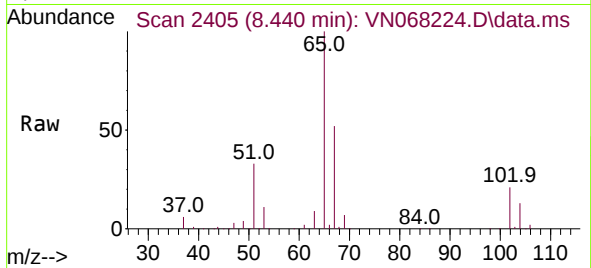




#33  
1,2-Dichloroethane-d4  
Concen: 54.204 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

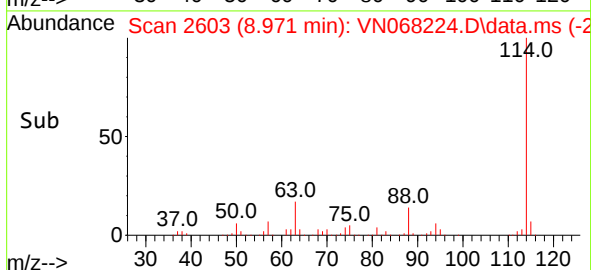
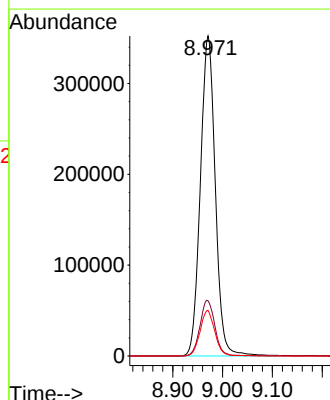
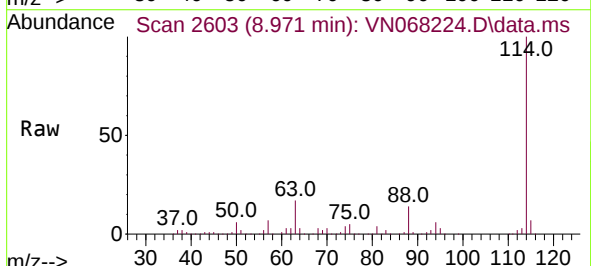
Instrument :  
MSVOA\_N  
ClientSampled :

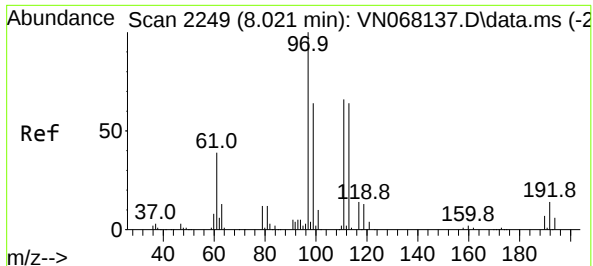
Tgt Ion: 65 Resp: 240641  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 98.6



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 114 Resp: 734370  
Ion Ratio Lower Upper  
114 100  
63 17.3 0.0 49.0  
88 14.2 0.0 36.6

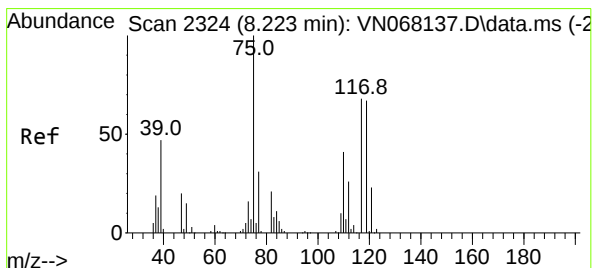
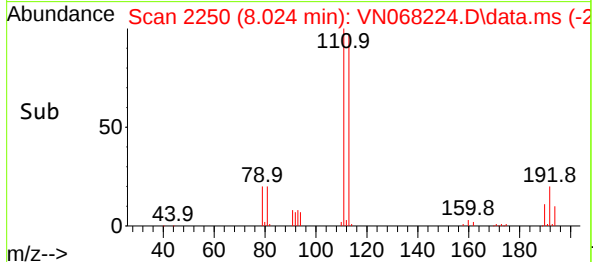
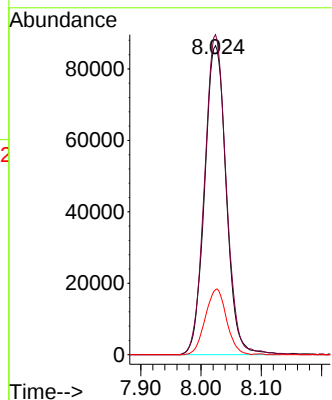
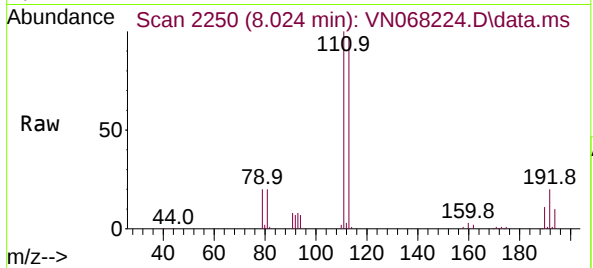




#35  
Dibromofluoromethane  
Concen: 46.772 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

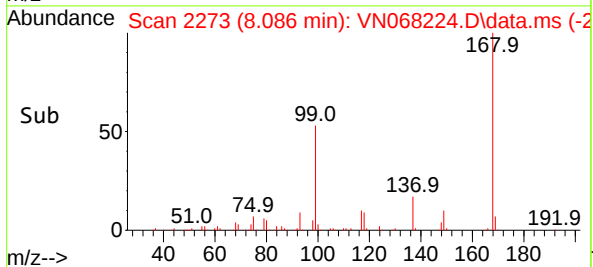
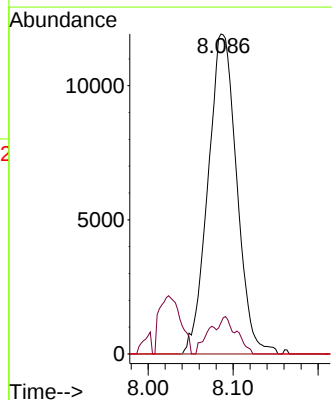
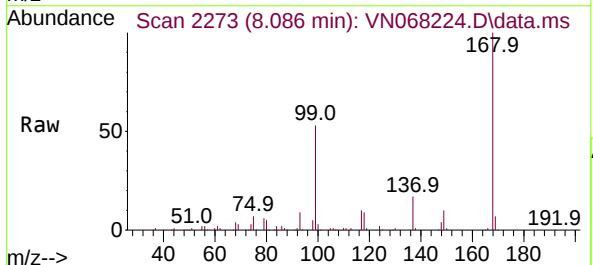
Instrument :  
MSVOA\_N  
ClientSampled :

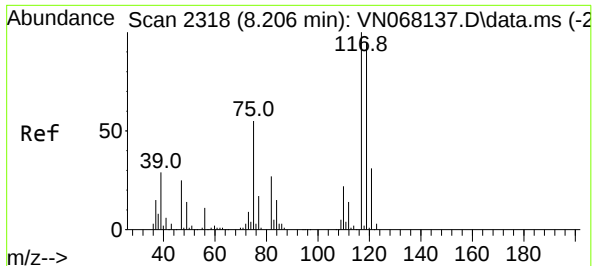
Tgt Ion:113 Resp: 215644  
Ion Ratio Lower Upper  
113 100  
111 102.8 83.8 125.8  
192 20.9 13.4 20.0#



#36  
1,1-Dichloropropene  
Concen: 4.673 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

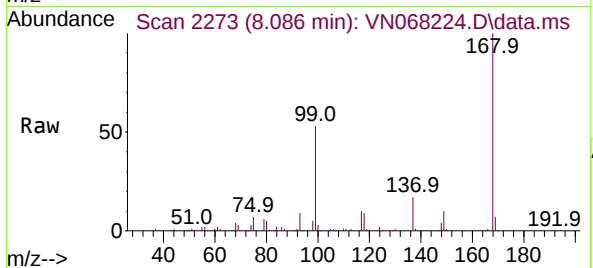
Tgt Ion: 75 Resp: 28055  
Ion Ratio Lower Upper  
75 100  
110 6.9 15.7 47.0#  
77 0.0 24.6 37.0#



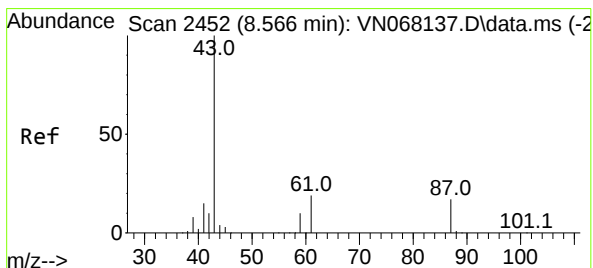
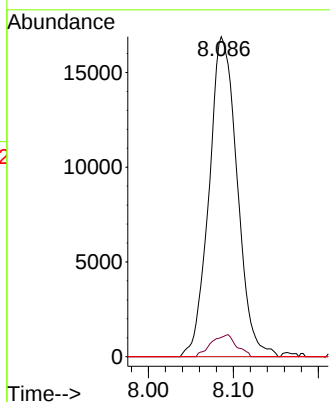
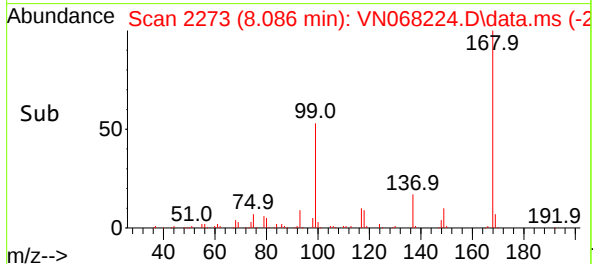


#38  
Carbon Tetrachloride  
Concen: 5.617 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.120 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

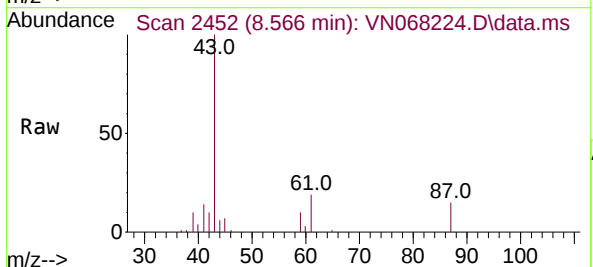
Instrument :  
MSVOA\_N  
ClientSampled :



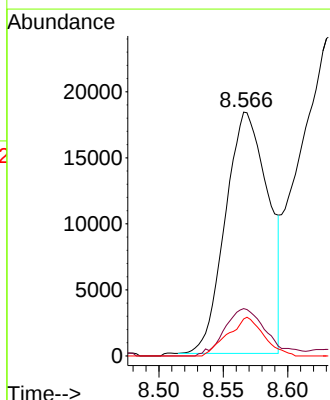
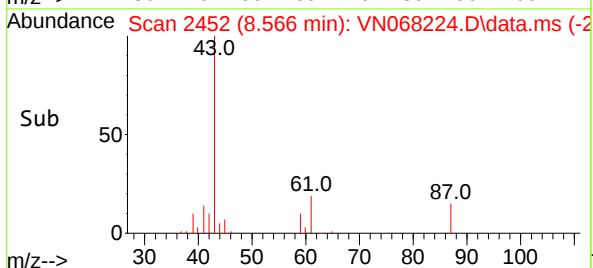
Tgt Ion:117 Resp: 38889  
Ion Ratio Lower Upper  
117 100  
119 6.0 75.4 113.2#  
121 0.0 23.5 35.3#

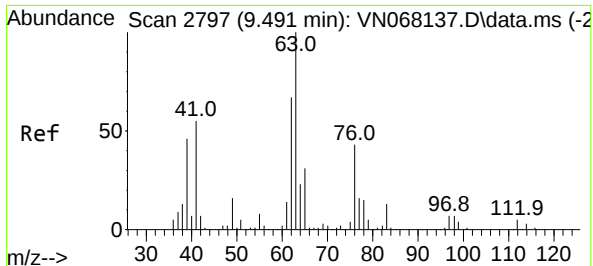


#43  
Isopropyl Acetate  
Concen: 5.140 ug/l  
RT: 8.566 min Scan# 2452  
Delta R.T. -0.000 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18



Tgt Ion: 43 Resp: 42110  
Ion Ratio Lower Upper  
43 100  
61 19.3 19.0 28.4  
87 13.4 9.5 14.3

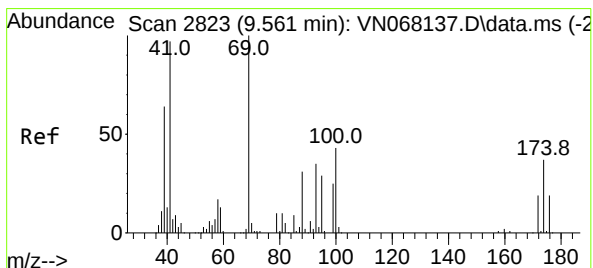
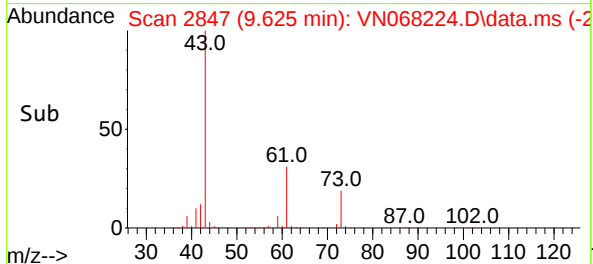
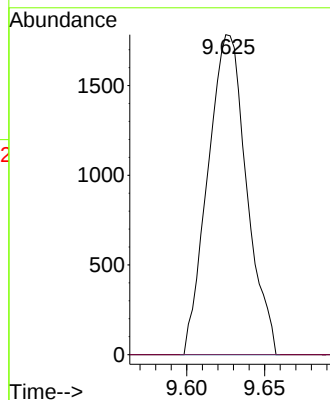
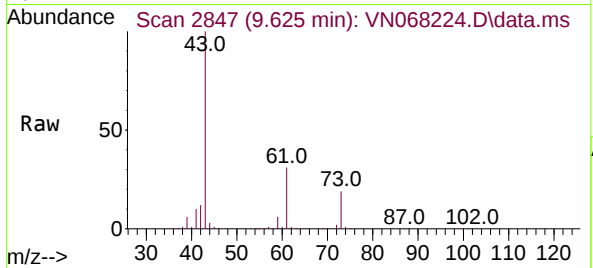




#45  
1,2-Dichloropropane  
Concen: 0.717 ug/l  
RT: 9.625 min Scan# 2847  
Delta R.T. 0.134 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

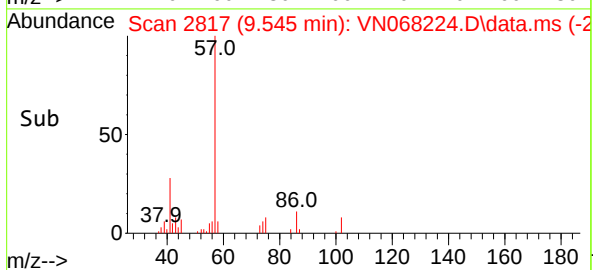
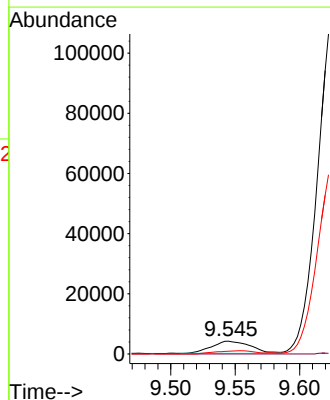
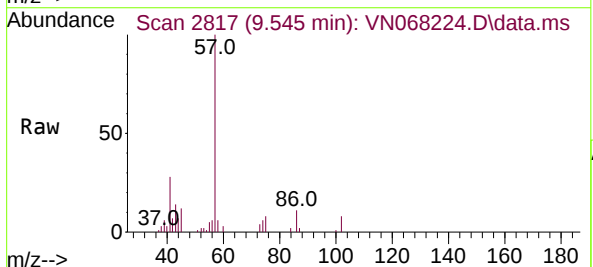
Instrument :  
MSVOA\_N  
ClientSampled :

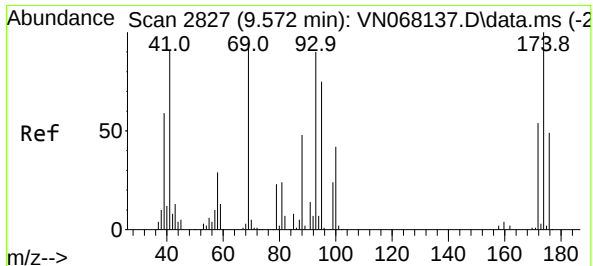
Tgt Ion: 63 Resp: 3090  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.3 36.5#



#48  
Methyl methacrylate  
Concen: 2.519 ug/l  
RT: 9.545 min Scan# 2817  
Delta R.T. -0.016 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 41 Resp: 8599  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.6 96.8#  
39 0.0 53.3 79.9#





#49

1,4-Dioxane

Concen: 3.999 ug/l

RT: 9.630 min Scan# 2849

Delta R.T. 0.058 min

Lab File: VN068224.D

Acq: 19 Aug 2021 18:18

Instrument :

MSVOA\_N

ClientSampled :

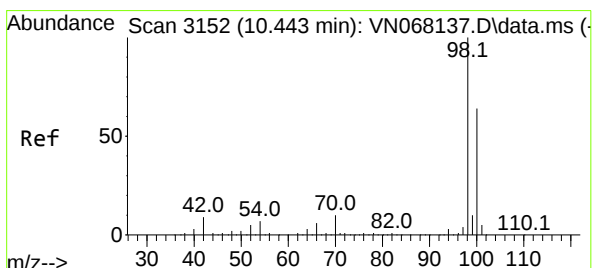
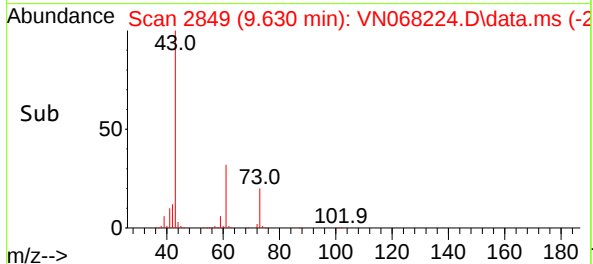
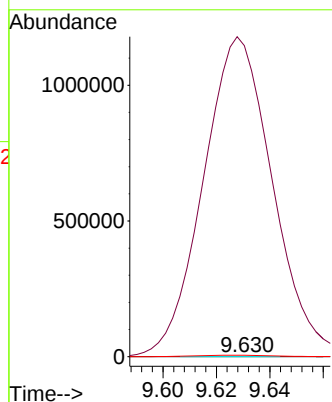
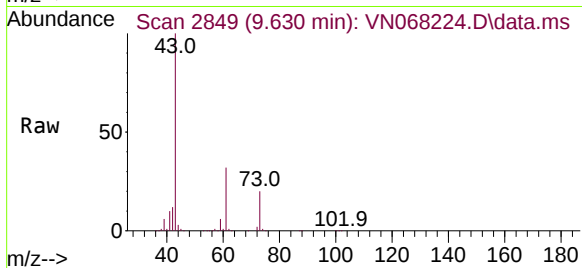
Tgt Ion: 88 Resp: 330

Ion Ratio Lower Upper

88 100

43 658842.4 28.8 43.2#

58 3411.5 60.4 90.6#



#50

Toluene-d8

Concen: 51.533 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN068224.D

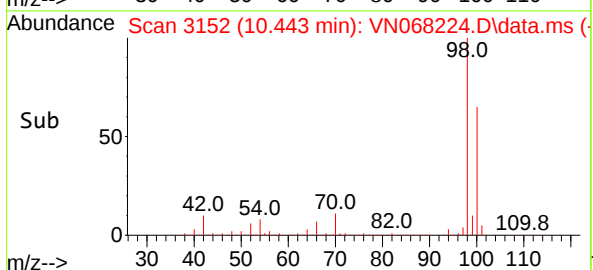
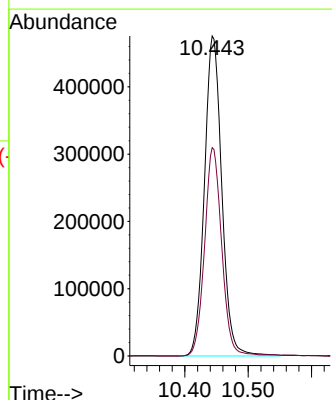
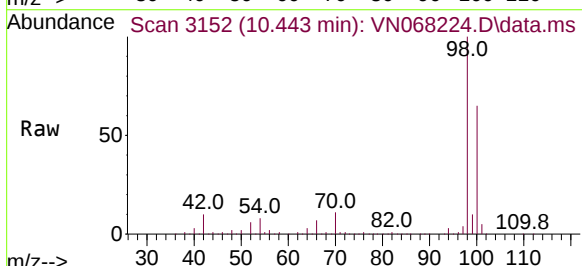
Acq: 19 Aug 2021 18:18

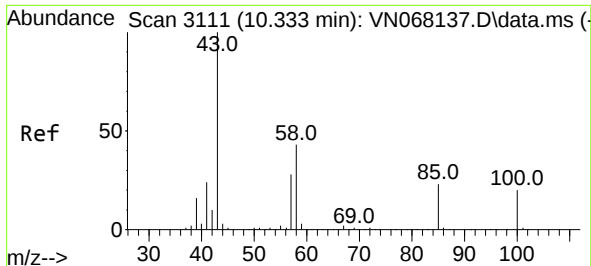
Tgt Ion: 98 Resp: 905319

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5

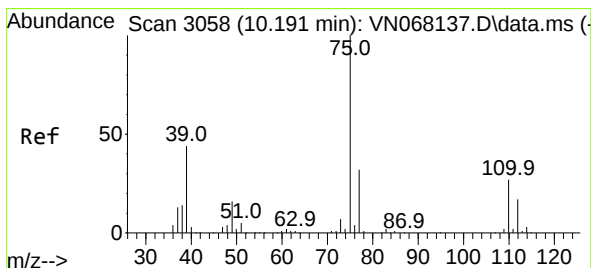
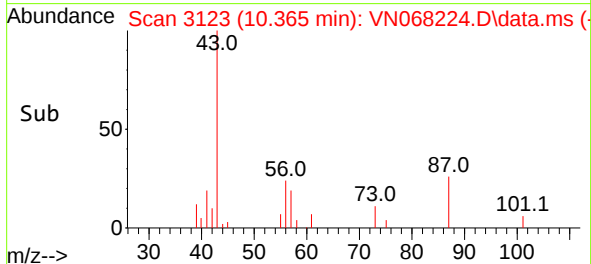
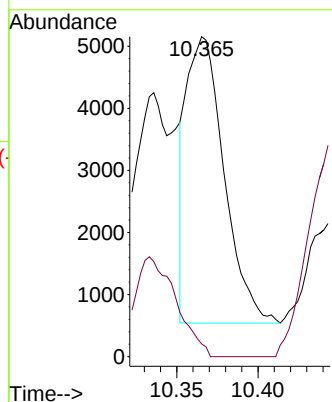
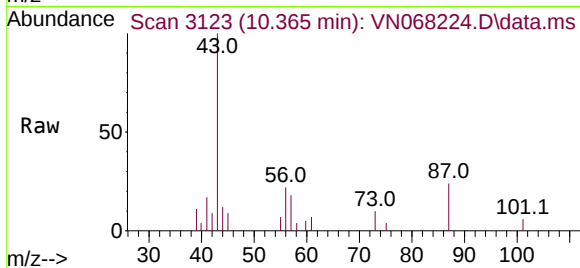




#51  
4-Methyl-2-Pentanone  
Concen: 1.486 ug/l  
RT: 10.365 min Scan# 3123  
Delta R.T. 0.032 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

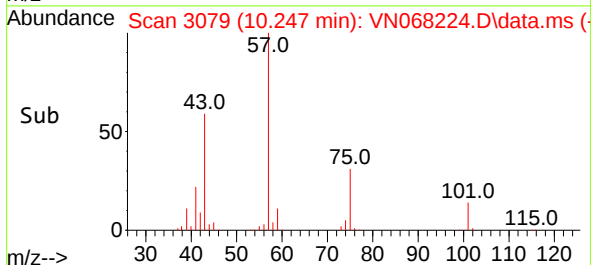
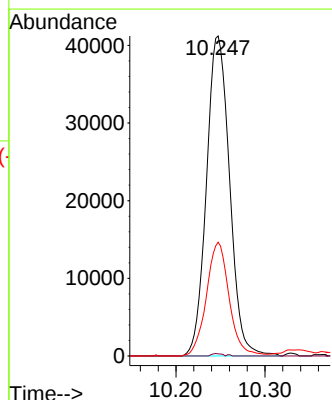
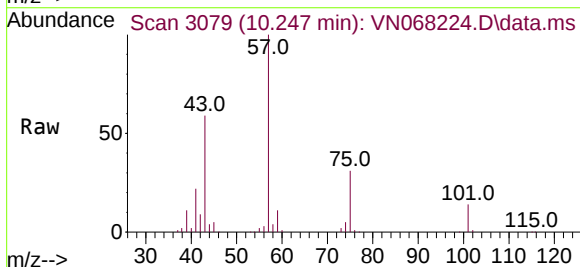
Instrument :  
MSVOA\_N  
ClientSampled :

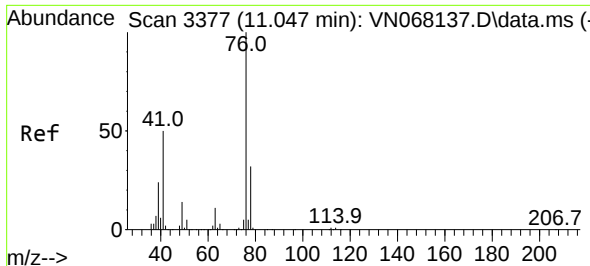
Tgt Ion: 43 Resp: 7480  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 43.0#



#54  
cis-1,3-Dichloropropene  
Concen: 10.712 ug/l  
RT: 10.247 min Scan# 3079  
Delta R.T. 0.056 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 75 Resp: 74476  
Ion Ratio Lower Upper  
75 100  
77 0.7 24.6 37.0#  
39 35.6 50.7 76.1#

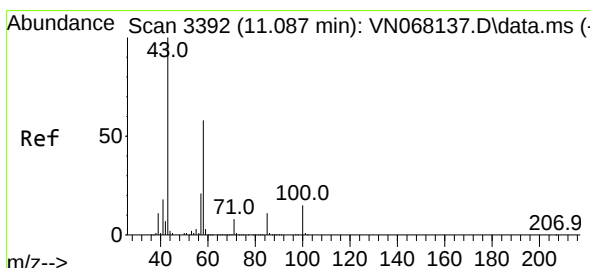
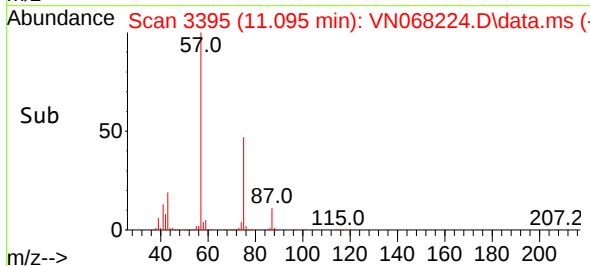
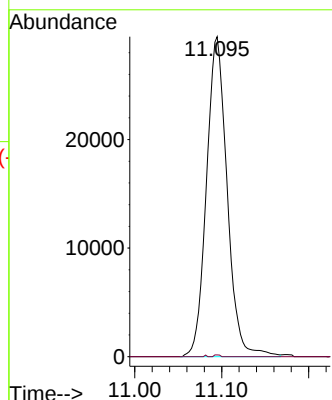
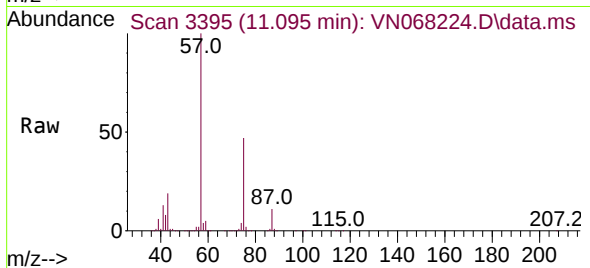




#57  
1,3-Dichloropropane  
Concen: 6.341 ug/l  
RT: 11.095 min Scan# 3395  
Delta R.T. 0.048 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

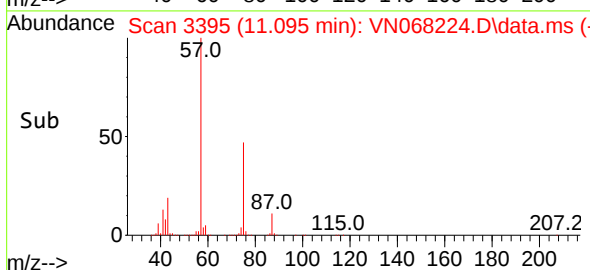
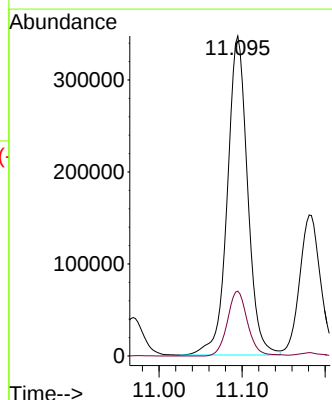
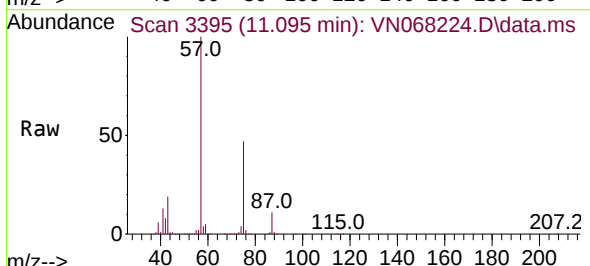
Instrument :  
MSVOA\_N  
ClientSampled :

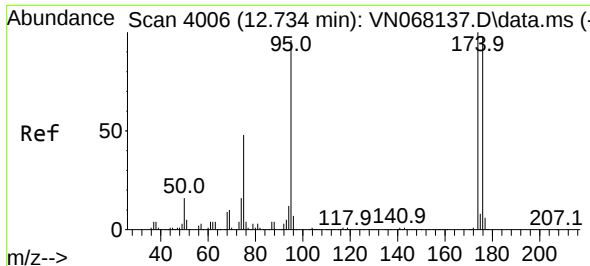
Tgt Ion: 76 Resp: 48748  
Ion Ratio Lower Upper  
76 100  
78 0.2 25.7 38.5#



#59  
2-Hexanone  
Concen: 168.283 ug/l  
RT: 11.095 min Scan# 3395  
Delta R.T. 0.008 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 43 Resp: 588020  
Ion Ratio Lower Upper  
43 100  
58 20.3 24.7 74.1#

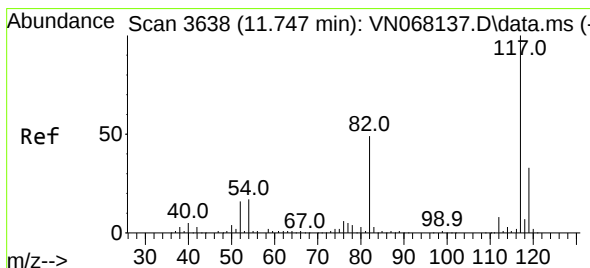
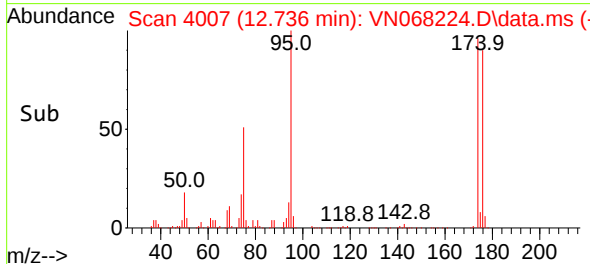
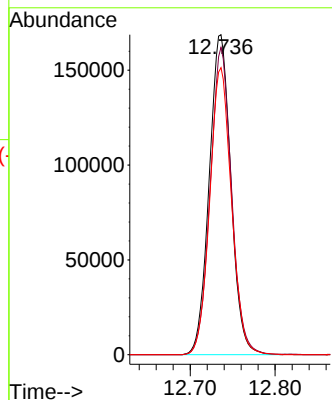
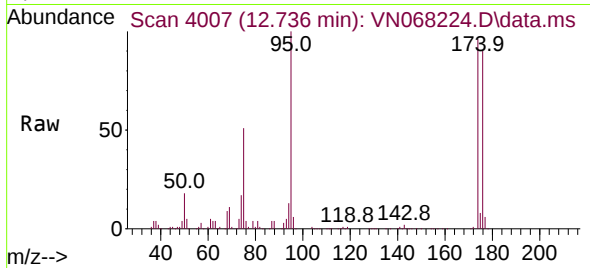




#62  
4-Bromofluorobenzene  
Concen: 51.051 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. 0.002 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

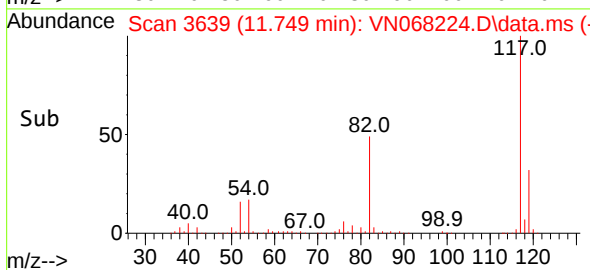
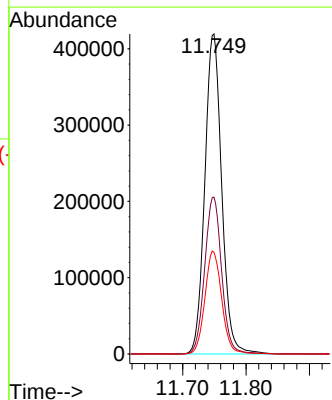
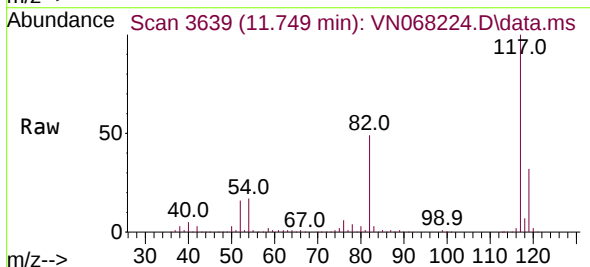
Instrument :  
MSVOA\_N  
ClientSampled :

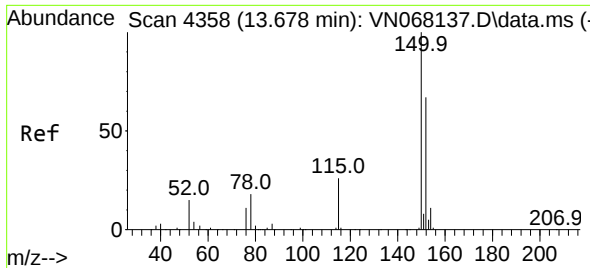
Tgt Ion: 95 Resp: 298561  
Ion Ratio Lower Upper  
95 100  
174 94.6 0.0 122.0  
176 90.0 0.0 117.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.002 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 117 Resp: 776409  
Ion Ratio Lower Upper  
117 100  
82 49.0 53.1 79.7#  
119 31.8 25.5 38.3

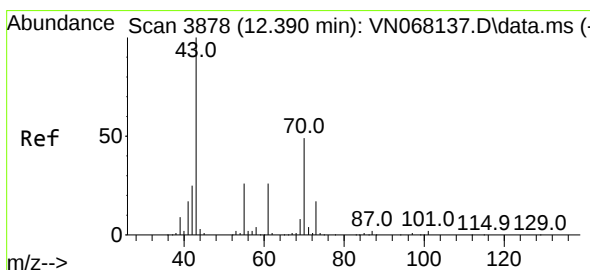
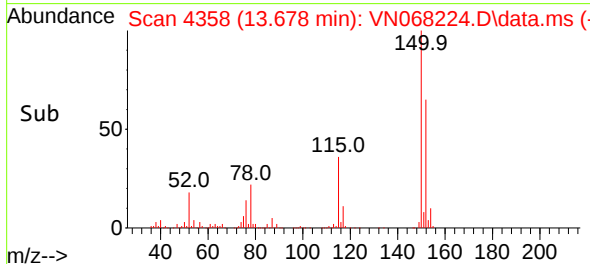
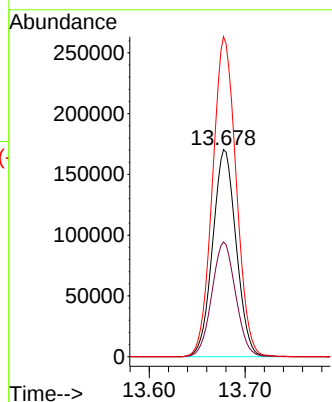
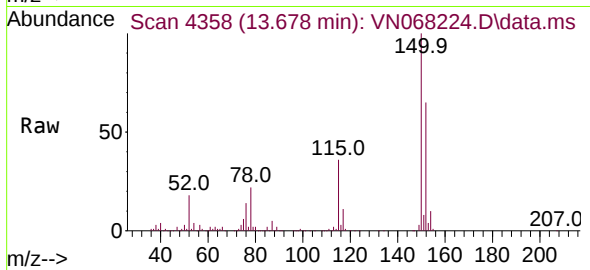




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. -0.000 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

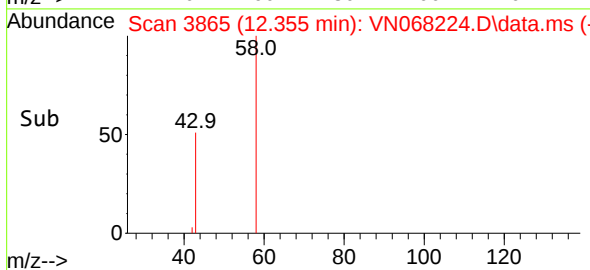
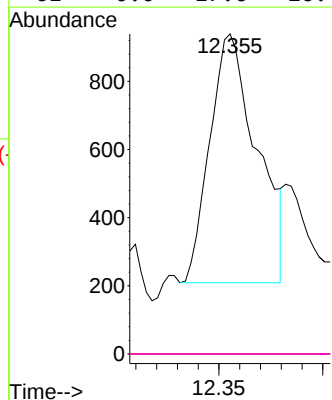
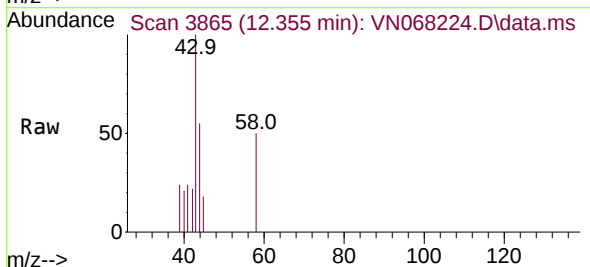
Instrument :  
MSVOA\_N  
ClientSampleId :

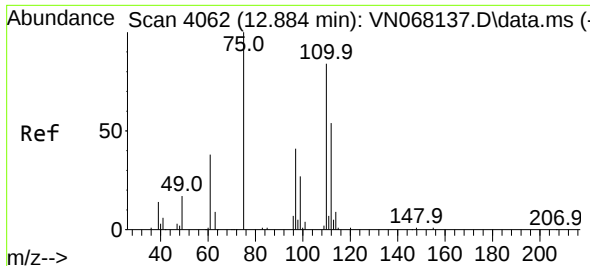
Tgt Ion:152 Resp: 290121  
Ion Ratio Lower Upper  
152 100  
115 56.0 36.1 108.5  
150 155.6 0.0 351.8



#74  
N-ethyl acetate  
Concen: 0.214 ug/l  
RT: 12.355 min Scan# 3865  
Delta R.T. -0.035 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 43 Resp: 1150  
Ion Ratio Lower Upper  
43 100  
70 0.0 29.4 44.2#  
55 0.0 17.0 25.4#  
61 0.0 17.6 26.4#

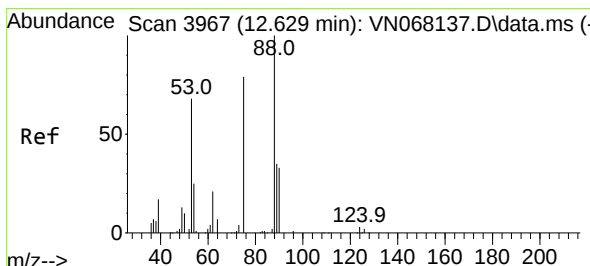
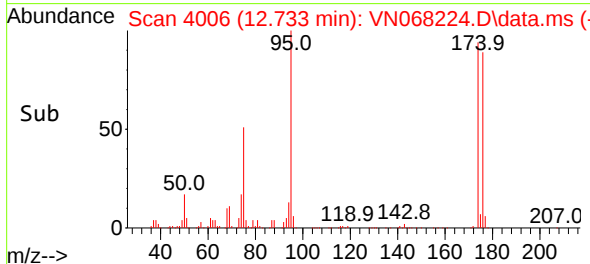
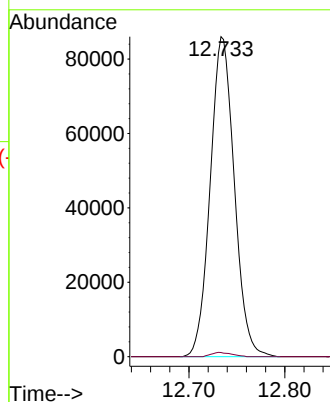
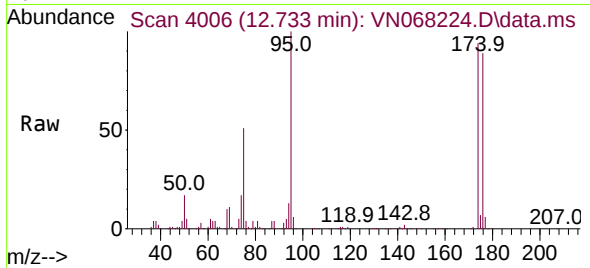




#76  
1,2,3-Trichloropropane  
Concen: 31.139 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.151 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

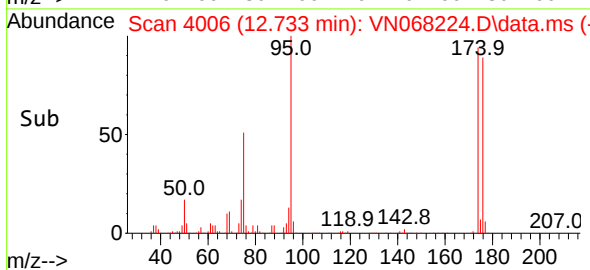
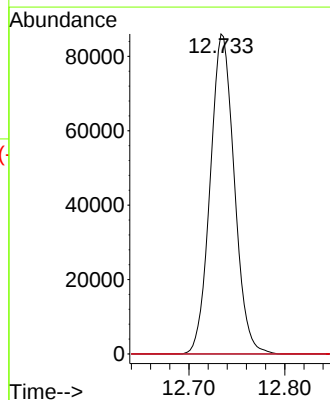
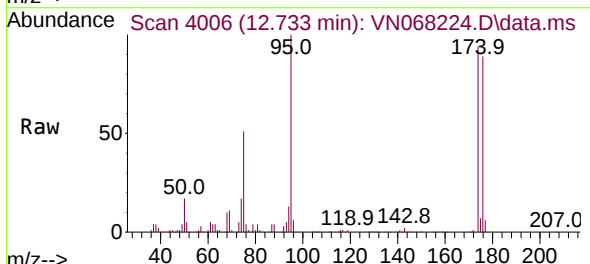
Instrument :  
MSVOA\_N  
ClientSampled :

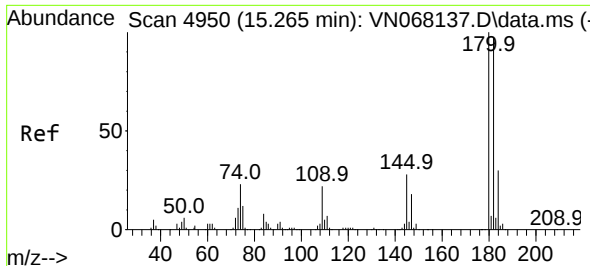
Tgt Ion: 75 Resp: 150155  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 102.016 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.104 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion: 75 Resp: 150155  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#

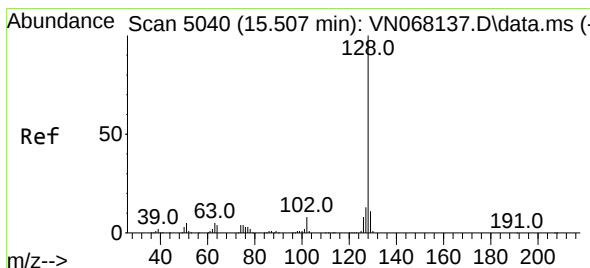
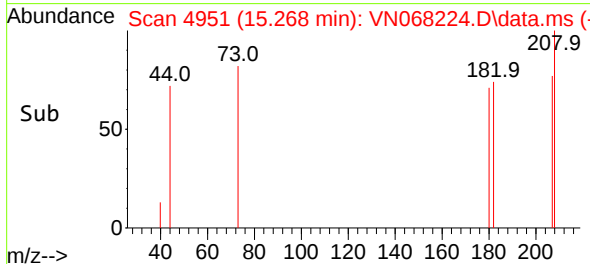
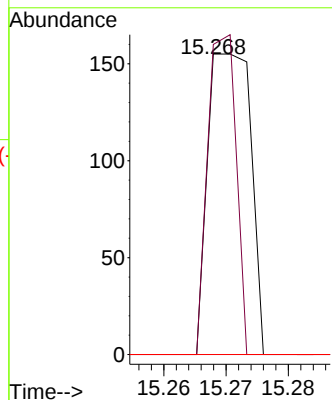
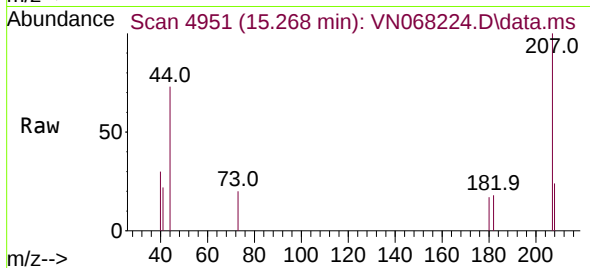




#93  
1,2,4-Trichlorobenzene  
Concen: 2.699 ug/l  
RT: 15.268 min Scan# 4951  
Delta R.T. 0.003 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:180 Resp: 74  
Ion Ratio Lower Upper  
180 100  
182 70.3 47.5 142.5  
145 0.0 17.2 51.6#



#95  
Naphthalene  
Concen: 3.396 ug/l  
RT: 15.504 min Scan# 5039  
Delta R.T. -0.003 min  
Lab File: VN068224.D  
Acq: 19 Aug 2021 18:18

Tgt Ion:128 Resp: 636  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 0.0 8.6 12.8#

