

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092921\  
 Data File : VN068747.D  
 Acq On : 29 Sep 2021 18:40  
 Operator : JC/MD  
 Sample : M3986-03  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 29 23:42:40 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092921W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 29 23:31:35 2021  
 Response via : Initial Calibration

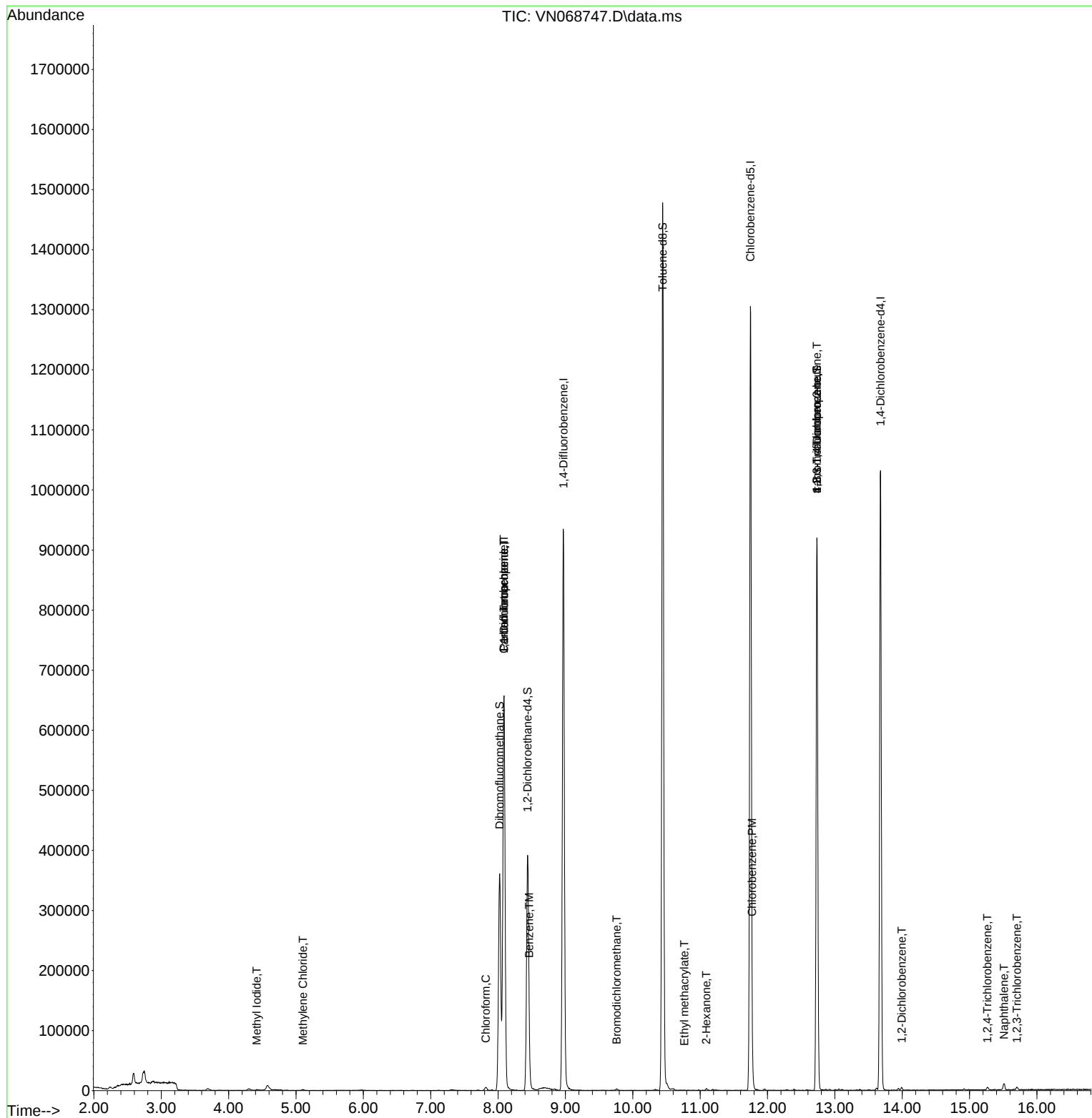
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 479836     | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.971          | 114  | 823877     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.747         | 117  | 739597     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678         | 152  | 262844     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437          | 65   | 326155     | 48.784    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 97.560%   |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 254761     | 49.768    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 99.540%   |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 1019933    | 54.526    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 109.060%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.734         | 95   | 291905     | 44.910    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 89.820%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.303          | 50   | 1200       | Below Cal | #      | 53       |
| 5) Bromomethane               | 2.880          | 94   | 3228       | Below Cal |        | 97       |
| 6) Chloroethane               | 3.052          | 64   | 312        | Below Cal | #      | 71       |
| 10) Methyl Iodide             | 4.417          | 142  | 411        | 1.434     | ug/l # | 33       |
| 13) Acrolein                  | 4.052          | 56   | 52         | Below Cal | #      | 72       |
| 16) Acetone                   | 4.299          | 43   | 3005       | Below Cal |        | 95       |
| 17) Carbon Disulfide          | 4.532          | 76   | 774        | Below Cal | #      | 74       |
| 20) Methylene Chloride        | 5.103          | 84   | 1331       | 0.229     | ug/l # | 72       |
| 30) Chloroform                | 7.818          | 83   | 5007       | 0.423     | ug/l   | 93       |
| 31) Cyclohexane               | 8.088          | 56   | 12855      | Below Cal | #      | 32       |
| 36) 1,1-Dichloropropene       | 8.086          | 75   | 42069      | 5.429     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 53126      | 5.772     | ug/l # | 16       |
| 40) Benzene                   | 8.461          | 78   | 7471       | 0.317     | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.762          | 83   | 2141       | 0.228     | ug/l # | 95       |
| 56) Ethyl methacrylate        | 10.765         | 69   | 194        | 1.843     | ug/l # | 52       |
| 59) 2-Hexanone                | 11.092         | 43   | 2294       | 0.407     | ug/l # | 58       |
| 65) Chlorobenzene             | 11.771         | 112  | 6083       | 0.361     | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane    | 12.734         | 75   | 172604     | 29.528    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.734         | 75   | 172604     | 85.839    | ug/l # | 6        |
| 91) 1,2-Dichlorobenzene       | 13.994         | 146  | 2183       | 0.228     | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.265         | 180  | 1720       | 0.397     | ug/l # | 50       |
| 95) Naphthalene               | 15.512         | 128  | 9679       | 2.206     | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene    | 15.703         | 180  | 1826       | 0.439     | ug/l   | 78       |
| -----                         |                |      |            |           |        |          |

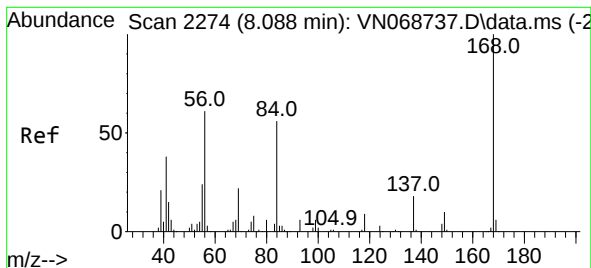
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092921\  
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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampled :

Quant Time: Sep 29 23:42:40 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N092921W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 29 23:31:35 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.000 min

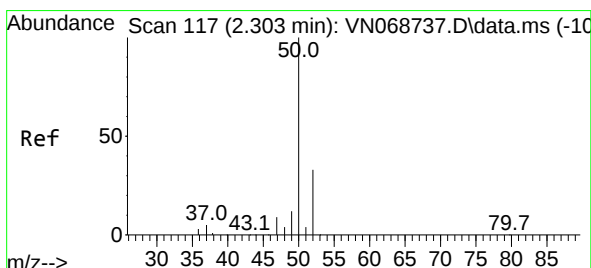
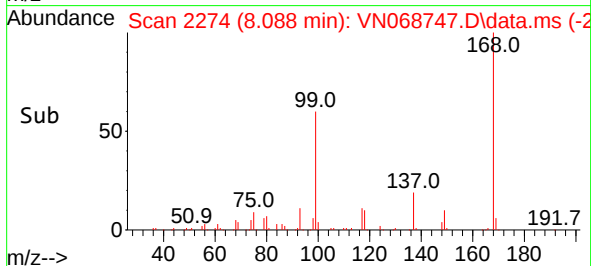
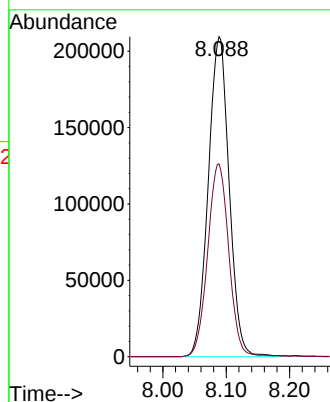
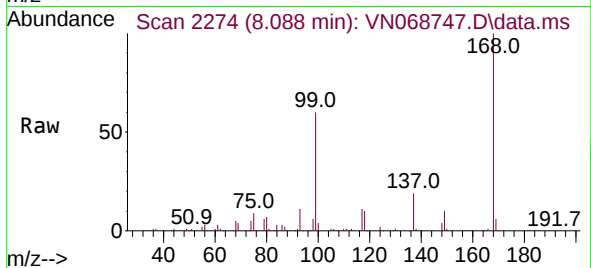
Lab File: VN068747.D

Acq: 29 Sep 2021 18:40

Tgt Ion:168 Resp: 479836

Ion Ratio Lower Upper

168 100  
99 60.3 62.9 94.3#



#3

Chloromethane

Concen: Below Cal

RT: 2.303 min Scan# 117

Delta R.T. 0.000 min

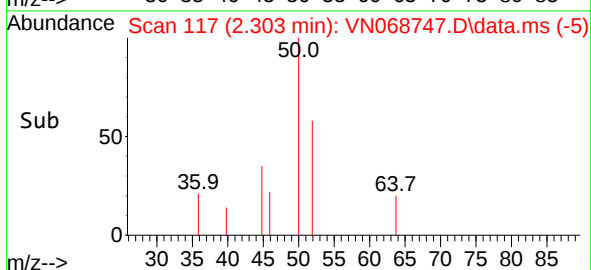
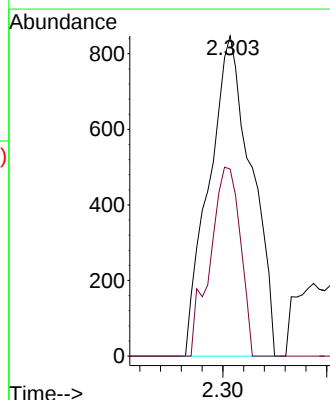
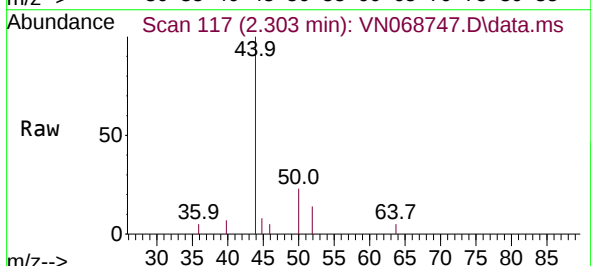
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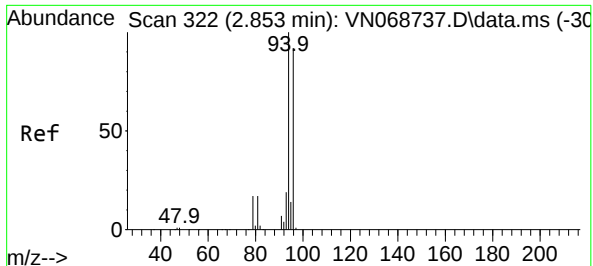
Acq: 29 Sep 2021 18:40

Tgt Ion: 50 Resp: 1200

Ion Ratio Lower Upper

50 100  
52 58.4 25.6 38.4#

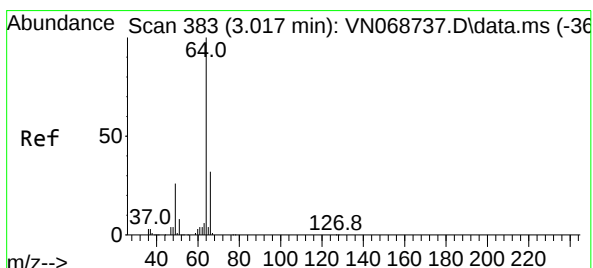
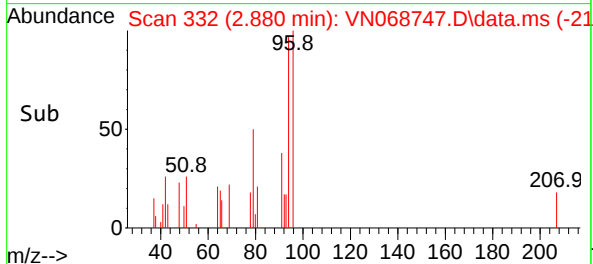
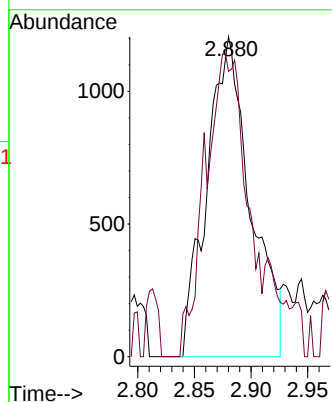
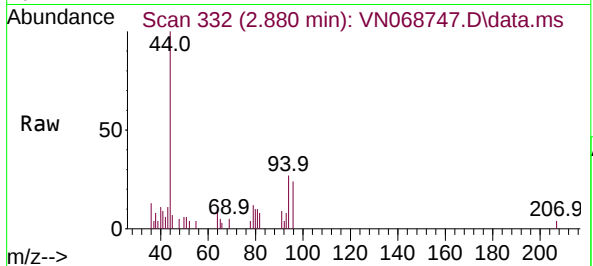




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.880 min Scan# 332  
Delta R.T. 0.027 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

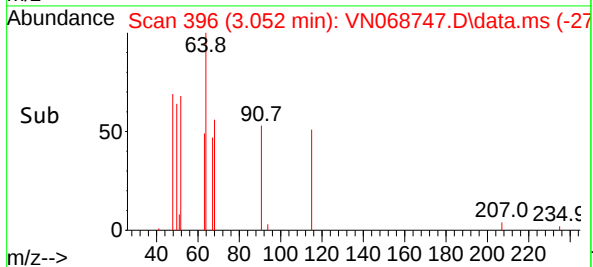
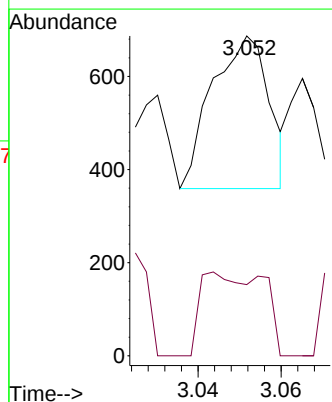
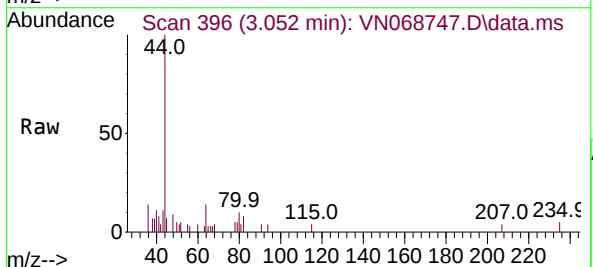
Instrument :  
MSVOA\_N  
ClientSampled :

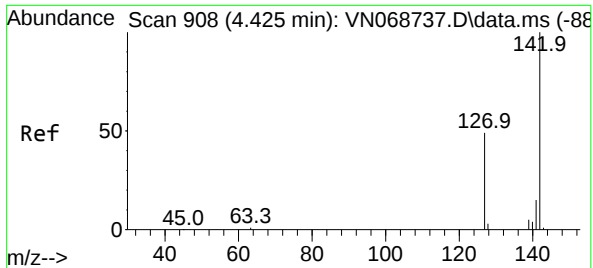
Tgt Ion: 94 Resp: 3228  
Ion Ratio Lower Upper  
94 100  
96 89.1 73.7 110.5



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.052 min Scan# 396  
Delta R.T. 0.035 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 64 Resp: 312  
Ion Ratio Lower Upper  
64 100  
66 46.6 24.7 37.1#

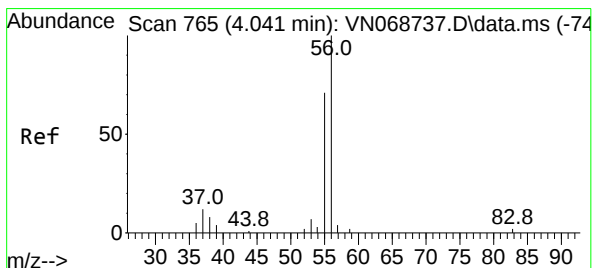
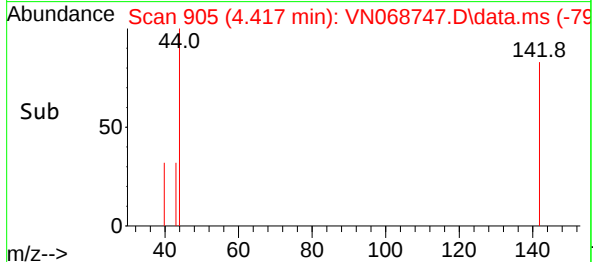
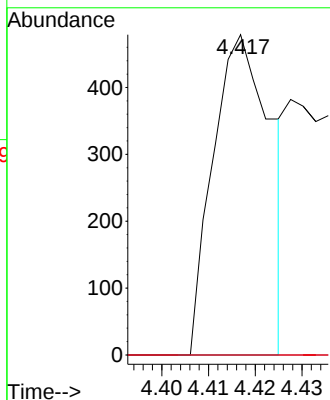
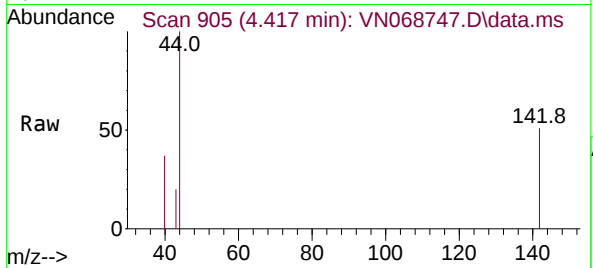




#10  
Methyl Iodide  
Concen: 1.434 ug/l  
RT: 4.417 min Scan# 905  
Delta R.T. -0.008 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

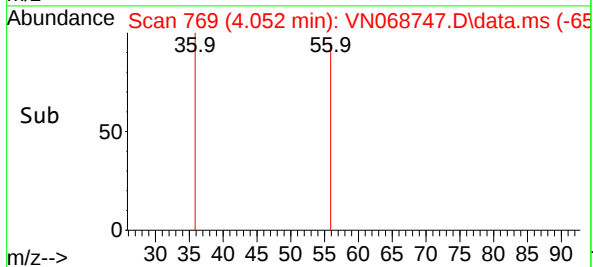
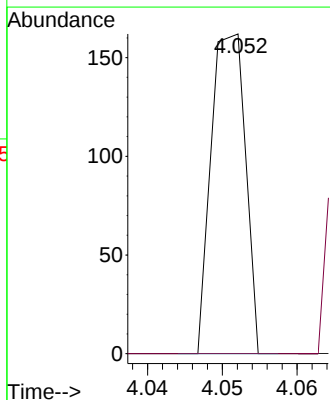
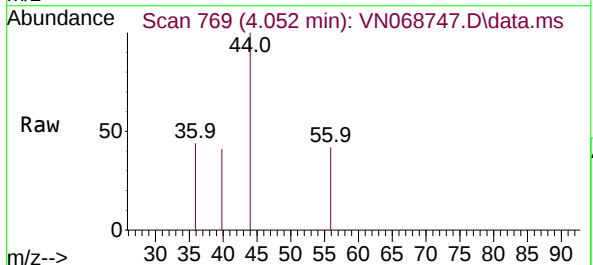
Instrument :  
MSVOA\_N  
ClientSampled :

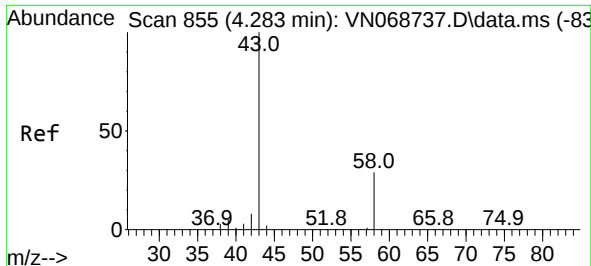
Tgt Ion:142 Resp: 411  
Ion Ratio Lower Upper  
142 100  
127 0.0 43.1 64.7#  
141 0.0 11.4 17.0#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.052 min Scan# 769  
Delta R.T. 0.011 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 56 Resp: 52  
Ion Ratio Lower Upper  
56 100  
55 48.1 57.4 86.0#

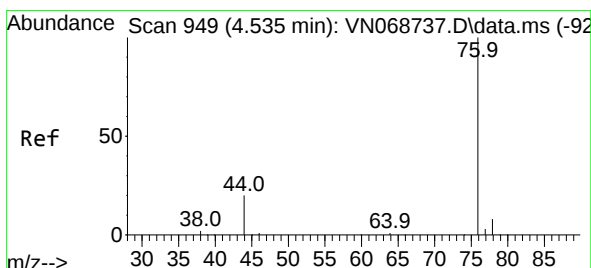
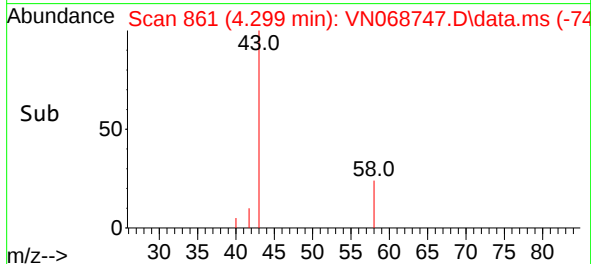
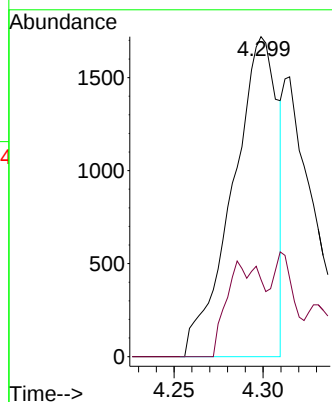
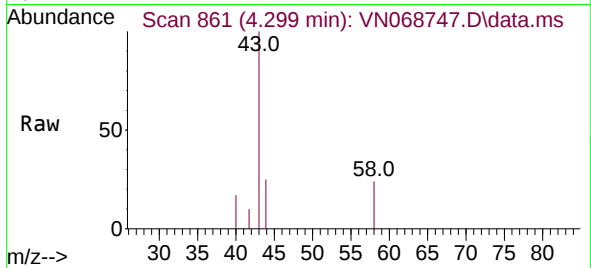




#16  
Acetone  
Concen: Below Cal  
RT: 4.299 min Scan# 861  
Delta R.T. 0.016 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

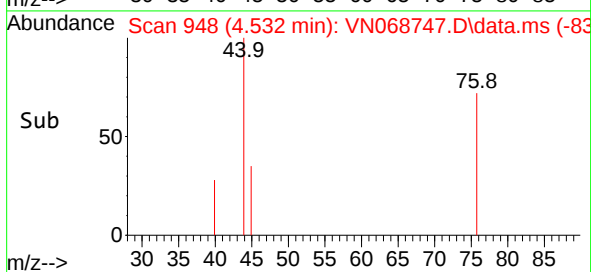
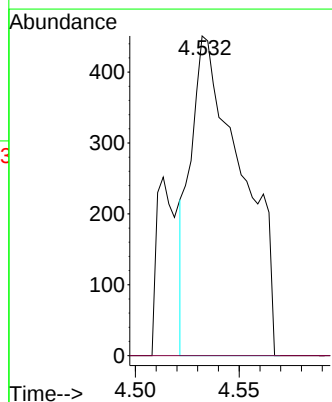
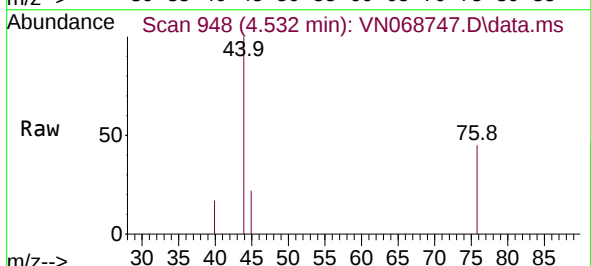
Instrument :  
MSVOA\_N  
ClientSampled :

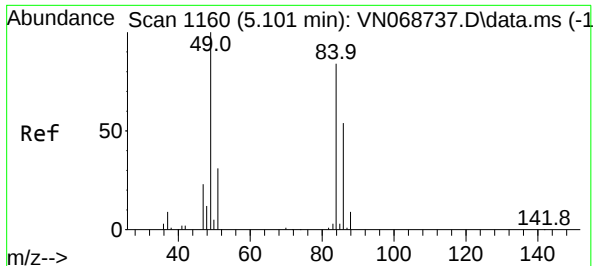
Tgt Ion: 43 Resp: 3005  
Ion Ratio Lower Upper  
43 100  
58 24.1 21.2 31.8



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.532 min Scan# 948  
Delta R.T. -0.003 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

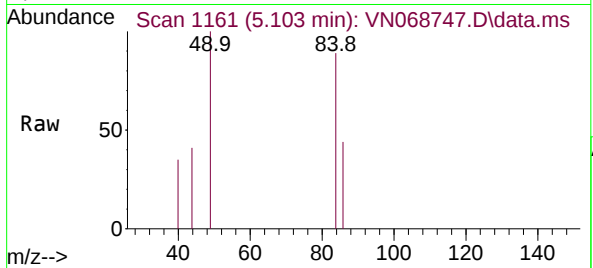
Tgt Ion: 76 Resp: 774  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.7 11.5#



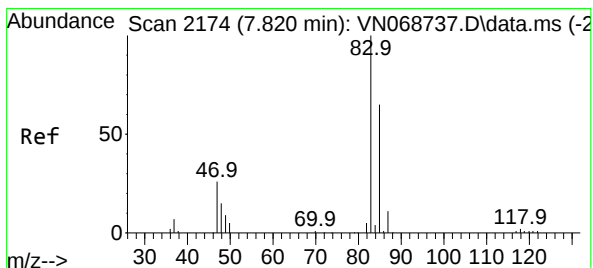
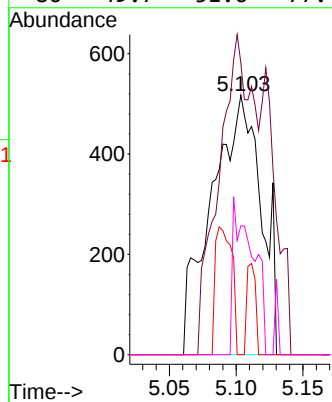
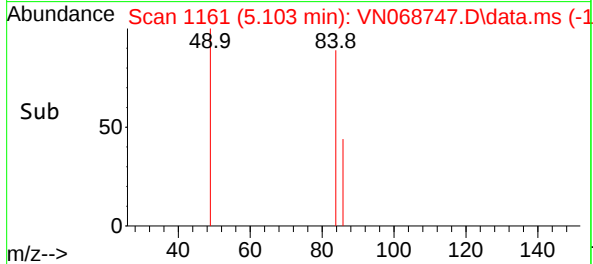


#20  
Methylene Chloride  
Concen: 0.229 ug/l  
RT: 5.103 min Scan# 1161  
Delta R.T. 0.002 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

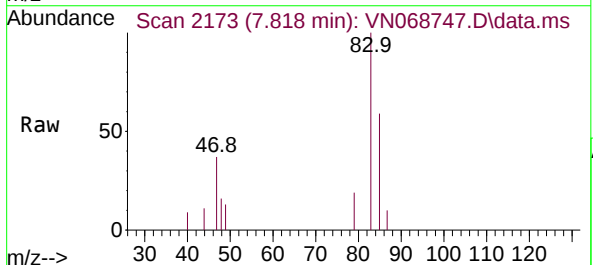
Instrument :  
MSVOA\_N  
ClientSampled :



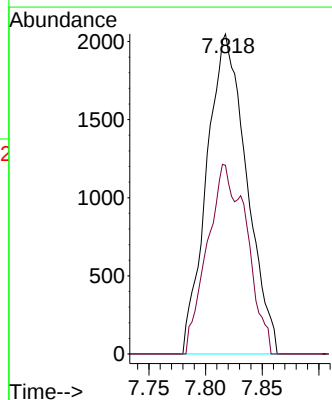
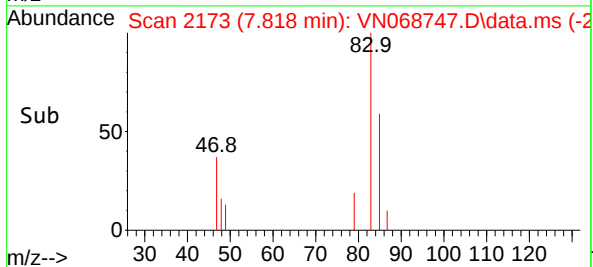
Tgt Ion: 84 Resp: 1331  
Ion Ratio Lower Upper  
84 100  
49 112.6 110.9 166.3  
51 0.0 32.6 49.0#  
86 49.7 51.6 77.4#

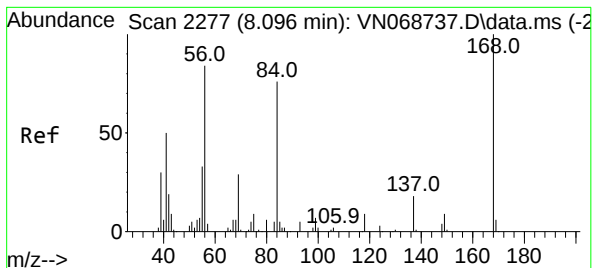


#30  
Chloroform  
Concen: 0.423 ug/l  
RT: 7.818 min Scan# 2173  
Delta R.T. -0.002 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40



Tgt Ion: 83 Resp: 5007  
Ion Ratio Lower Upper  
83 100  
85 58.9 51.5 77.3

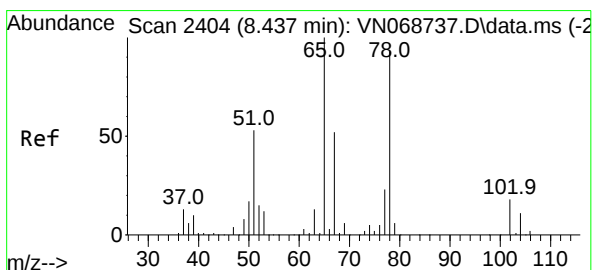
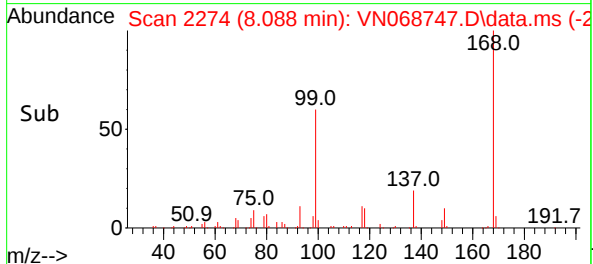
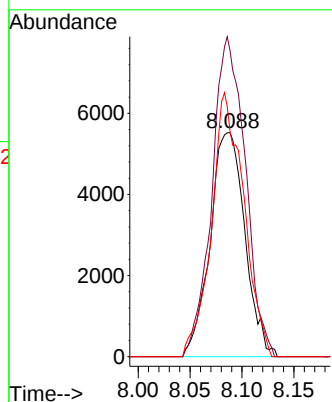
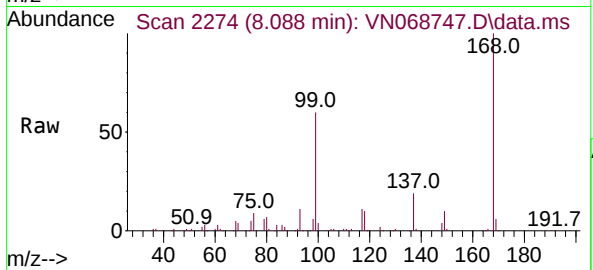




#31  
Cyclohexane  
Concen: Below Cal  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.008 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

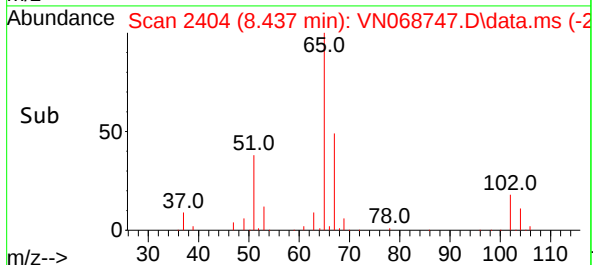
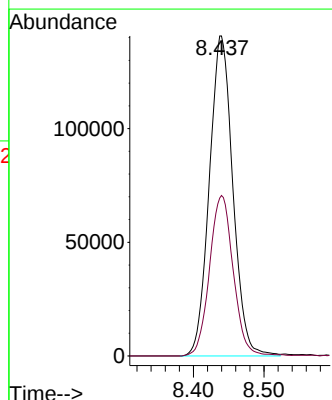
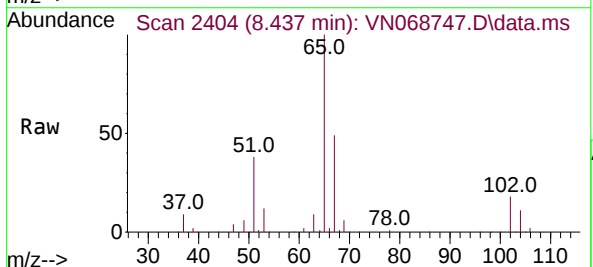
Instrument :  
MSVOA\_N  
ClientSampled :

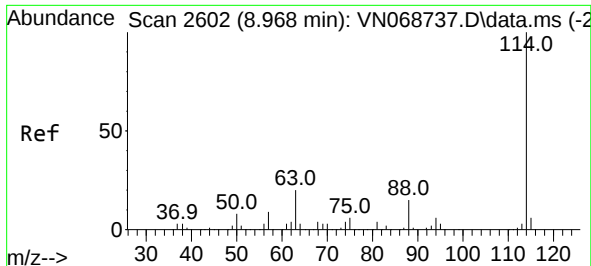
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Ion Ratio Lower Upper  
56 100  
69 136.4 27.3 40.9#  
84 100.3 64.9 97.3#



#33  
1,2-Dichloroethane-d4  
Concen: 48.784 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. 0.000 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 65 Resp: 326155  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 98.6

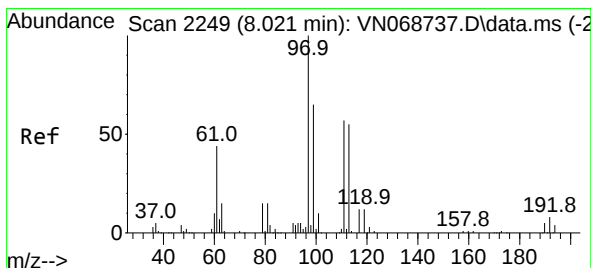
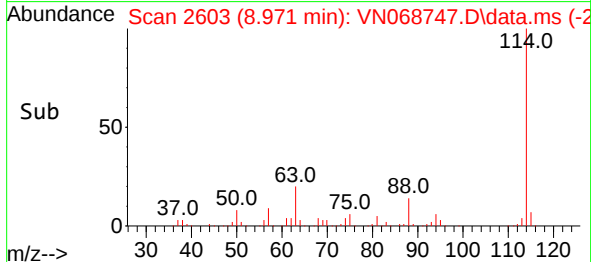
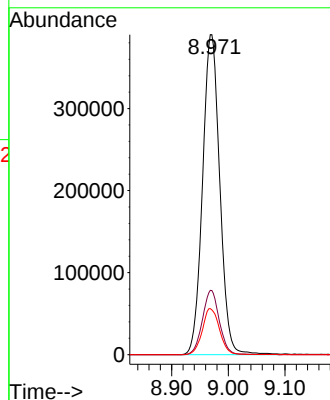
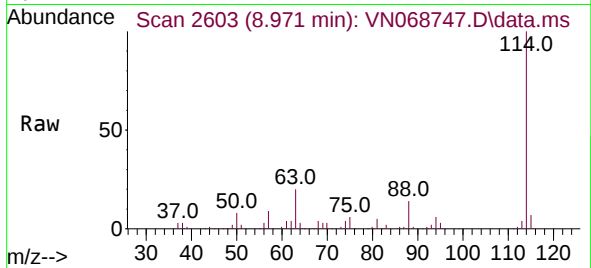




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

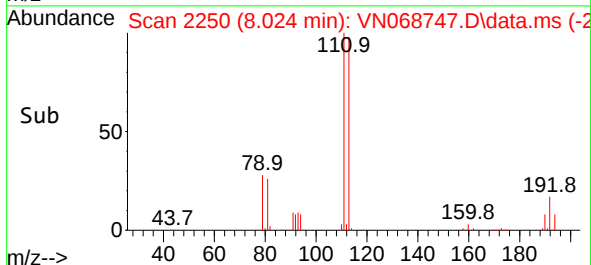
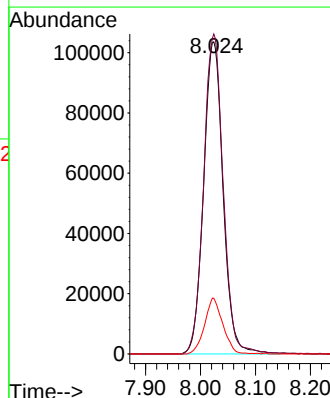
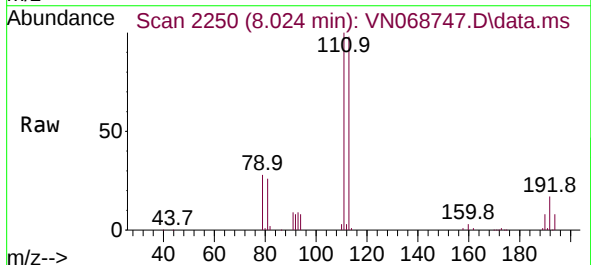
Instrument :  
MSVOA\_N  
ClientSampled :

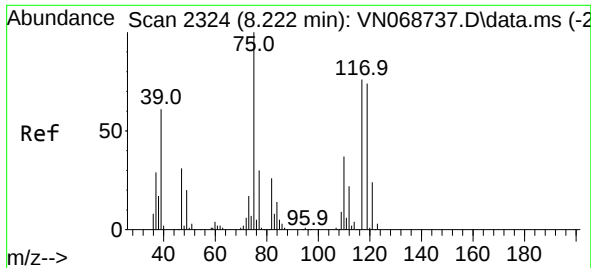
Tgt Ion:114 Resp: 823877  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 49.0  
88 14.0 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 49.768 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion:113 Resp: 254761  
Ion Ratio Lower Upper  
113 100  
111 103.0 83.8 125.8  
192 16.7 13.4 20.0

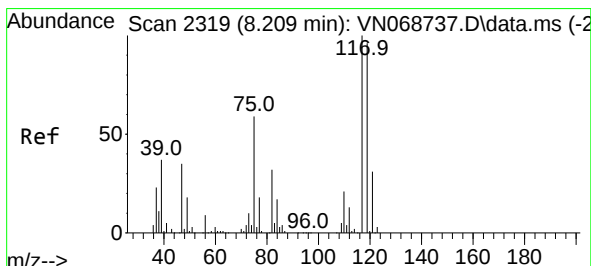
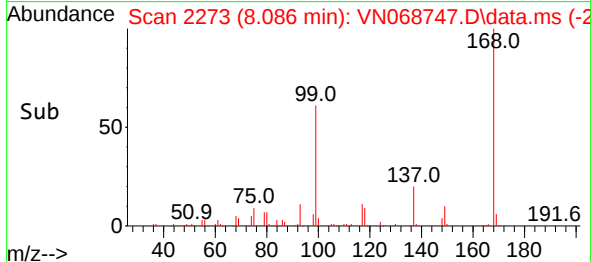
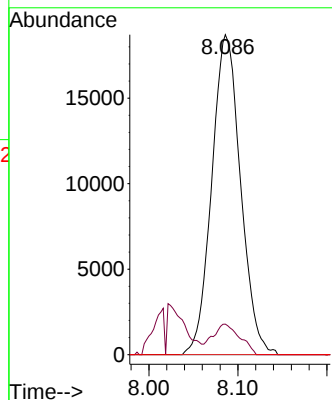
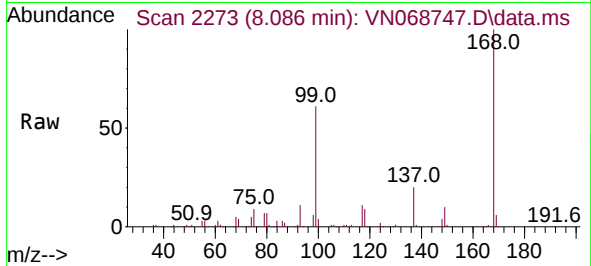




#36  
1,1-Dichloropropene  
Concen: 5.429 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.136 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

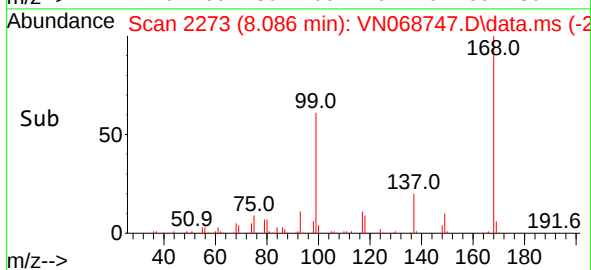
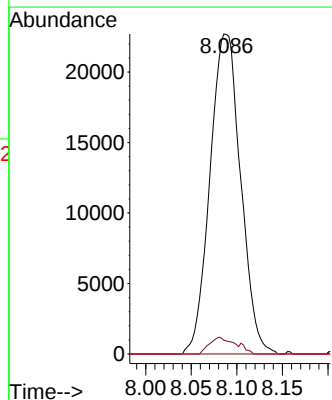
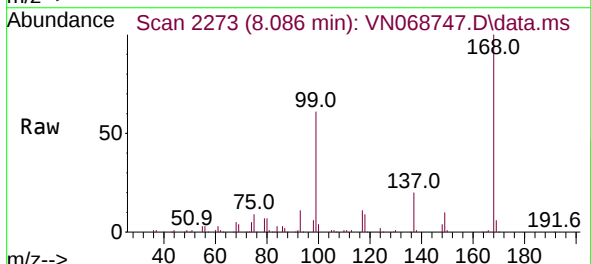
Instrument :  
MSVOA\_N  
ClientSampled :

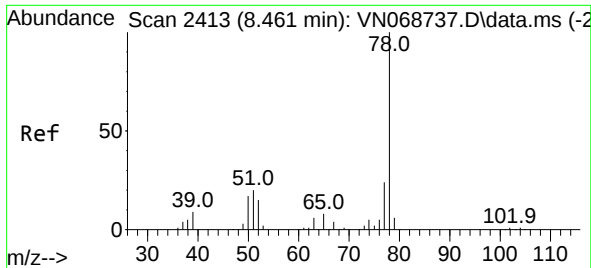
Tgt Ion: 75 Resp: 42069  
Ion Ratio Lower Upper  
75 100  
110 9.0 15.7 47.0#  
77 0.0 24.6 37.0#



#38  
Carbon Tetrachloride  
Concen: 5.772 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.123 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 117 Resp: 53126  
Ion Ratio Lower Upper  
117 100  
119 4.3 75.4 113.2#  
121 0.0 23.5 35.3#

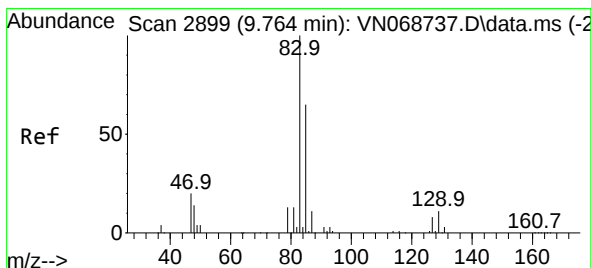
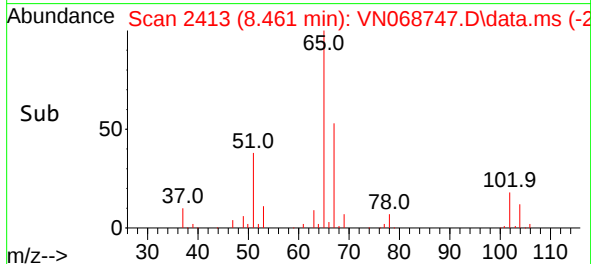
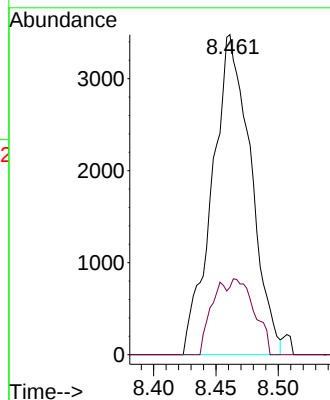
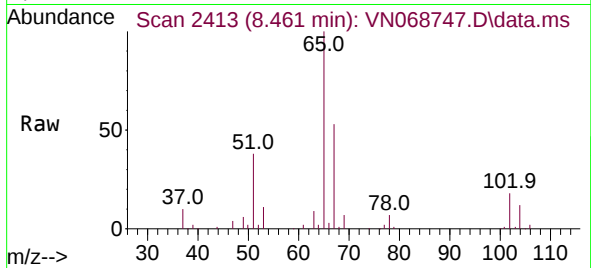




#40  
Benzene  
Concen: 0.317 ug/l  
RT: 8.461 min Scan# 2413  
Delta R.T. 0.000 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

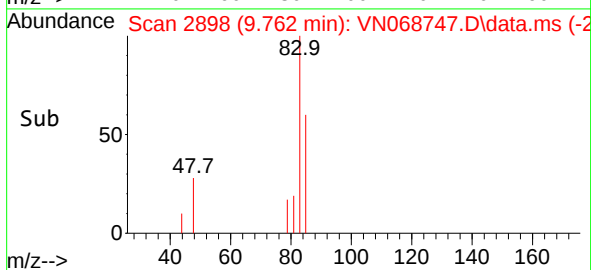
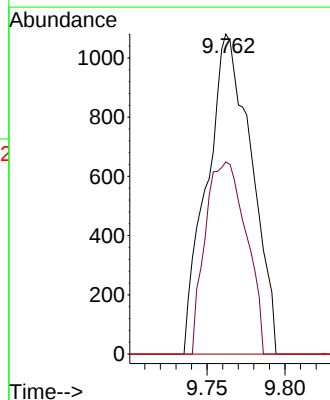
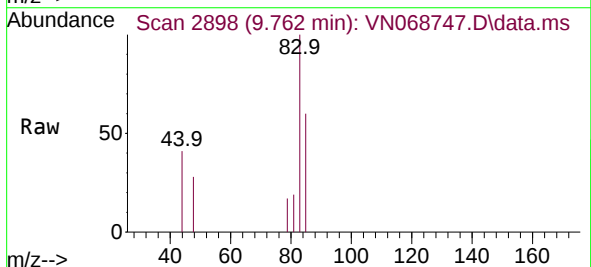
Instrument :  
MSVOA\_N  
ClientSampled :

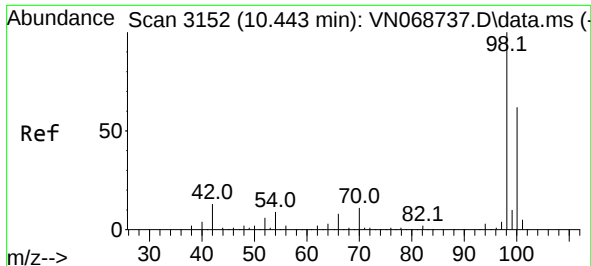
Tgt Ion: 78 Resp: 7471  
Ion Ratio Lower Upper  
78 100  
77 21.1 18.9 28.3



#47  
Bromodichloromethane  
Concen: 0.228 ug/l  
RT: 9.762 min Scan# 2898  
Delta R.T. -0.002 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 83 Resp: 2141  
Ion Ratio Lower Upper  
83 100  
85 60.0 49.9 74.9  
127 0.0 6.1 9.1#

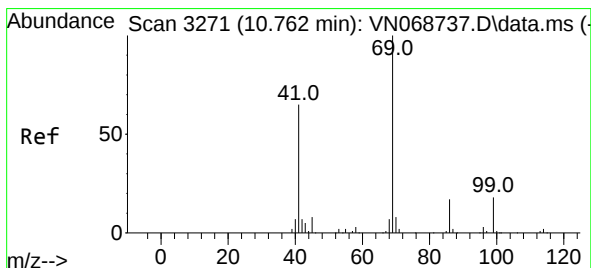
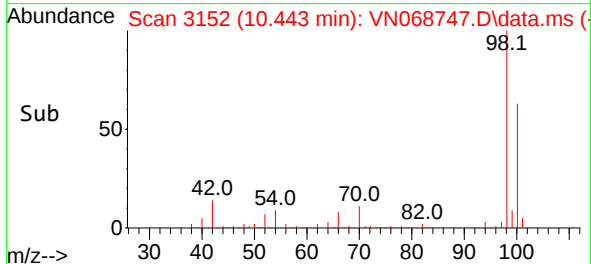
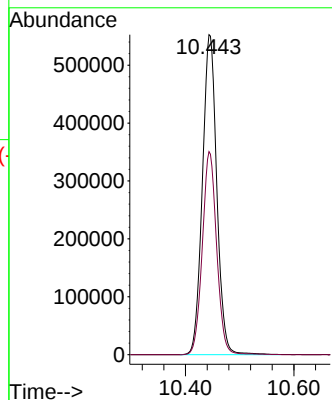
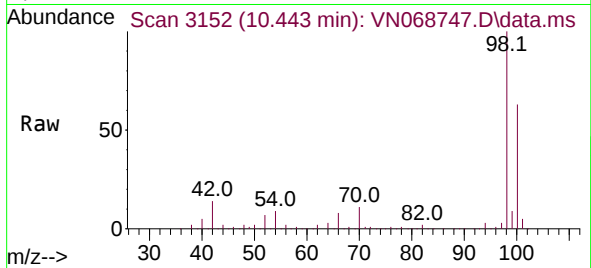




#50  
Toluene-d8  
Concen: 54.526 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

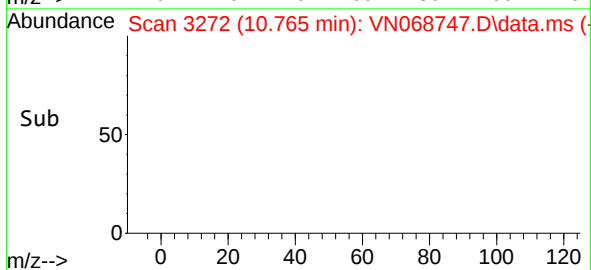
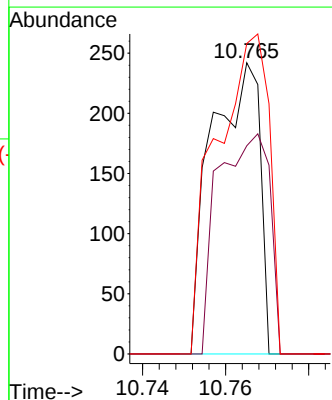
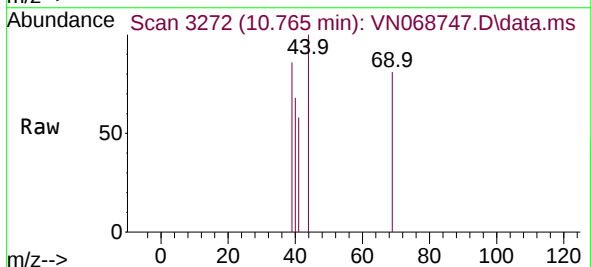
Instrument :  
MSVOA\_N  
ClientSampleId :

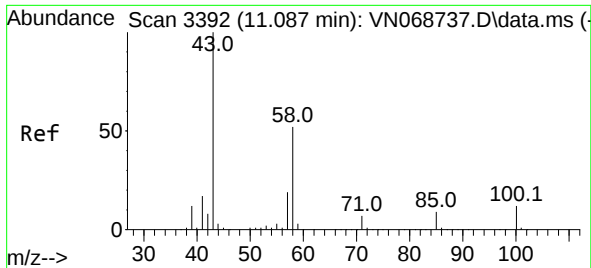
Tgt Ion: 98 Resp: 1019933  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.7 77.5



#56  
Ethyl methacrylate  
Concen: 1.843 ug/l  
RT: 10.765 min Scan# 3272  
Delta R.T. 0.003 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 69 Resp: 194  
Ion Ratio Lower Upper  
69 100  
41 81.4 58.6 88.0  
39 120.6 38.3 57.5#

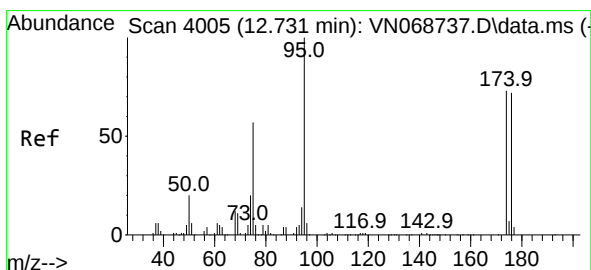
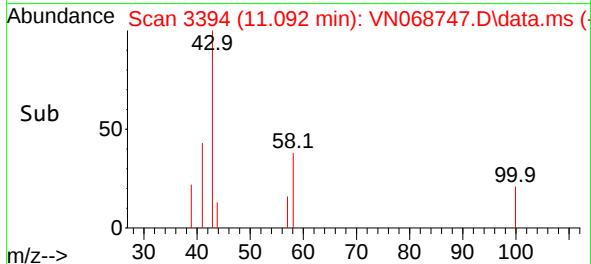
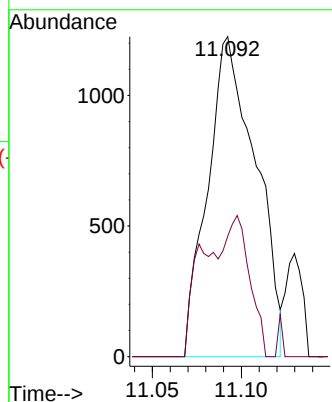
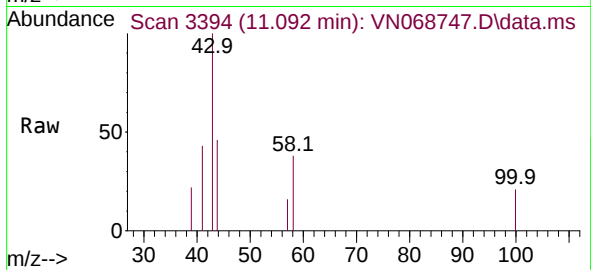




#59  
2-Hexanone  
Concen: 0.407 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.005 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

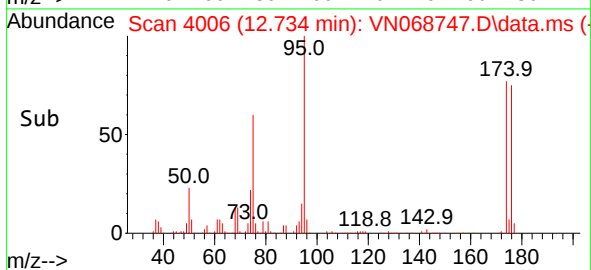
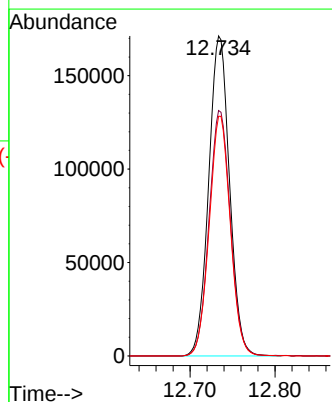
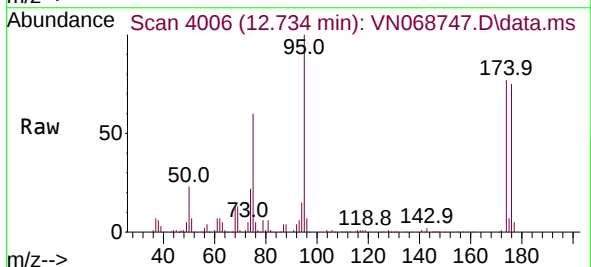
Instrument :  
MSVOA\_N  
ClientSampled :

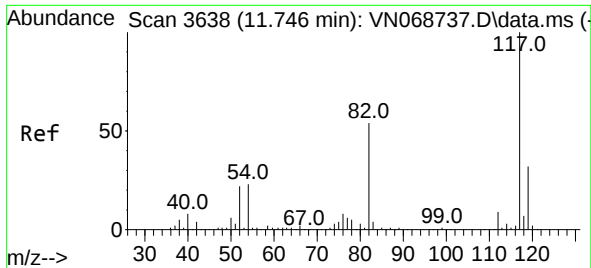
Tgt Ion: 43 Resp: 2294  
Ion Ratio Lower Upper  
43 100  
58 20.7 24.7 74.1#



#62  
4-Bromofluorobenzene  
Concen: 44.910 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.003 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 95 Resp: 291905  
Ion Ratio Lower Upper  
95 100  
174 78.5 0.0 122.0  
176 75.7 0.0 117.6

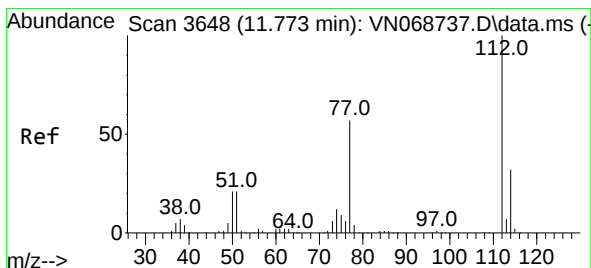
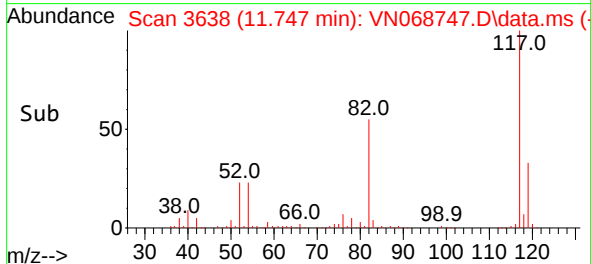
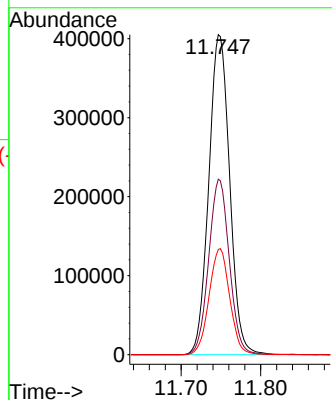
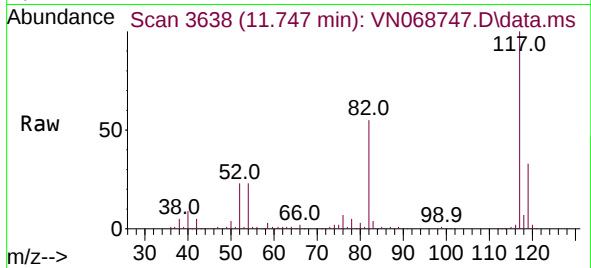




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.001 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

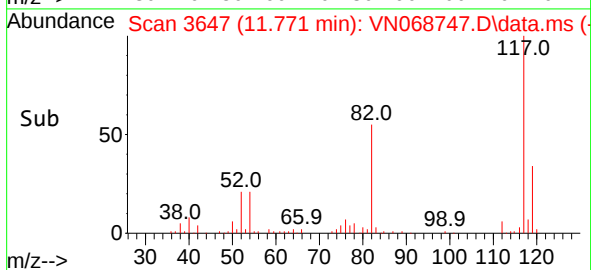
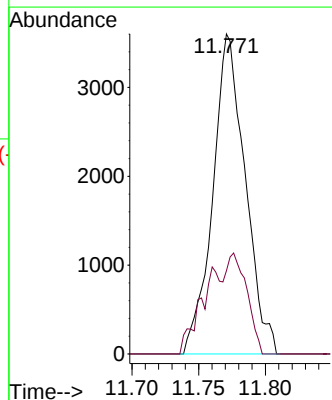
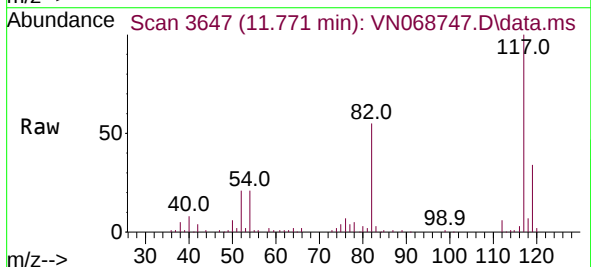
Instrument :  
MSVOA\_N  
ClientSampled :

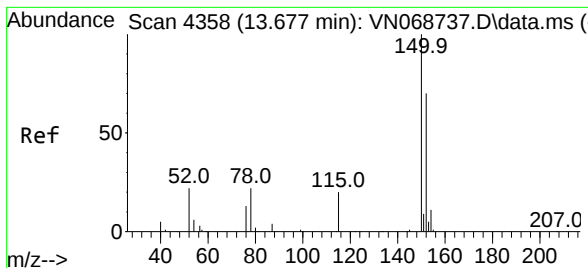
Tgt Ion:117 Resp: 739597  
Ion Ratio Lower Upper  
117 100  
82 54.9 53.1 79.7  
119 32.9 25.5 38.3



#65  
Chlorobenzene  
Concen: 0.361 ug/l  
RT: 11.771 min Scan# 3647  
Delta R.T. -0.002 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion:112 Resp: 6083  
Ion Ratio Lower Upper  
112 100  
114 26.0 24.6 37.0

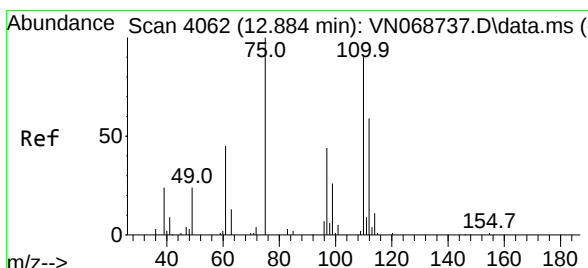
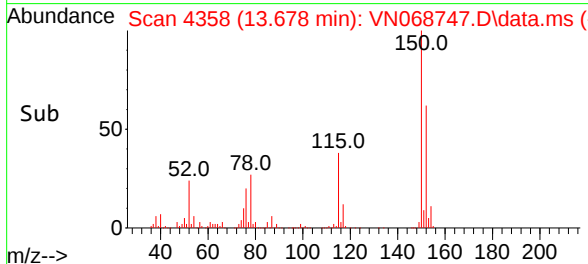
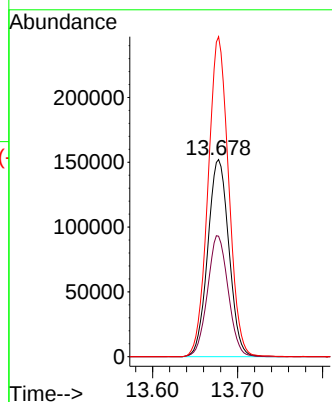
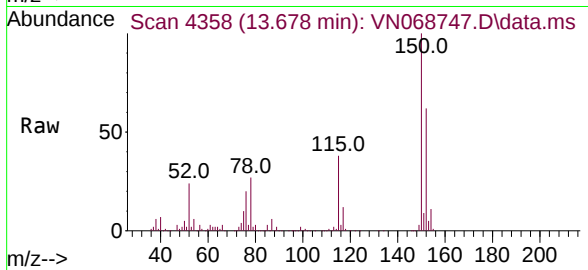




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.678 min Scan# 4358  
 Delta R.T. 0.001 min  
 Lab File: VN068747.D  
 Acq: 29 Sep 2021 18:40

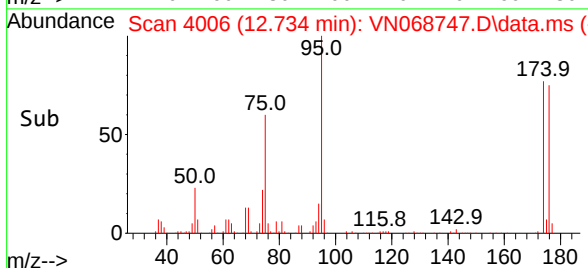
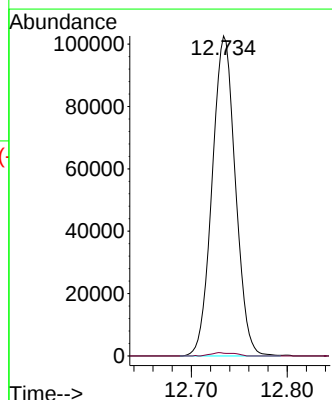
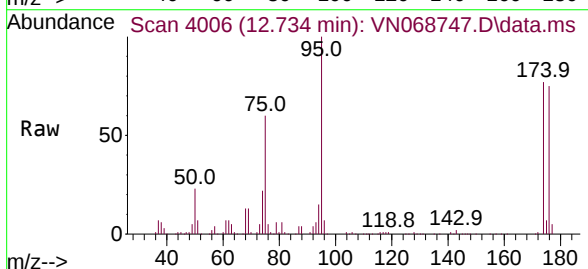
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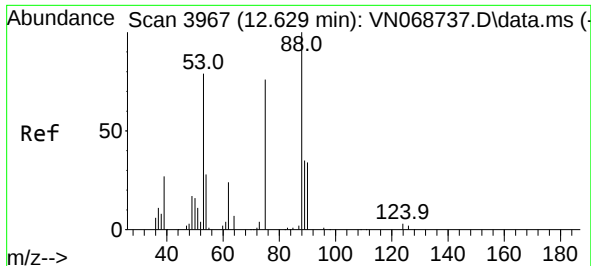
Tgt Ion:152 Resp: 262844  
 Ion Ratio Lower Upper  
 152 100  
 115 60.1 36.1 108.5  
 150 158.2 0.0 351.8



#76  
 1,2,3-Trichloropropane  
 Concen: 29.528 ug/l  
 RT: 12.734 min Scan# 4006  
 Delta R.T. -0.150 min  
 Lab File: VN068747.D  
 Acq: 29 Sep 2021 18:40

Tgt Ion: 75 Resp: 172604  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#

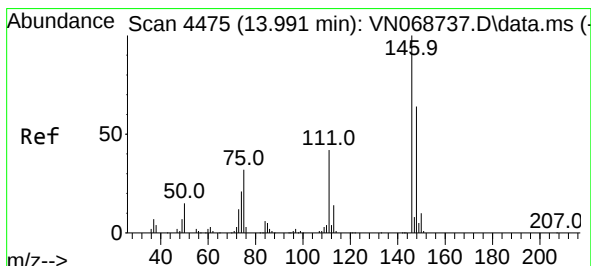
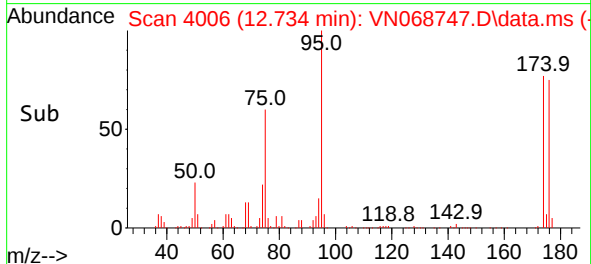
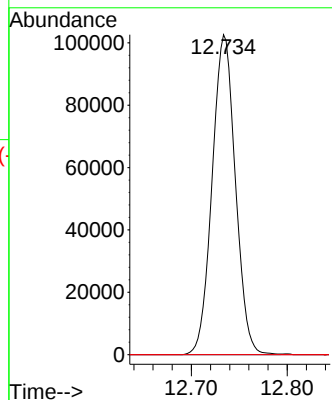
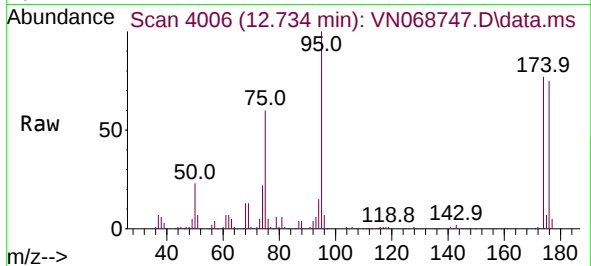




#81  
trans-1,4-Dichloro-2-butene  
Concen: 85.839 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

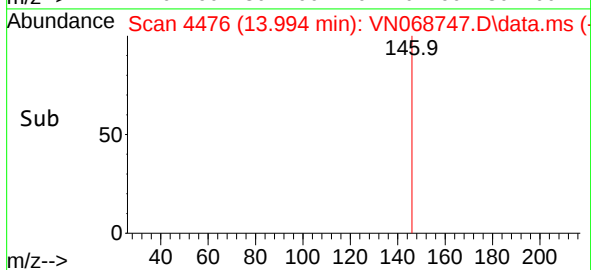
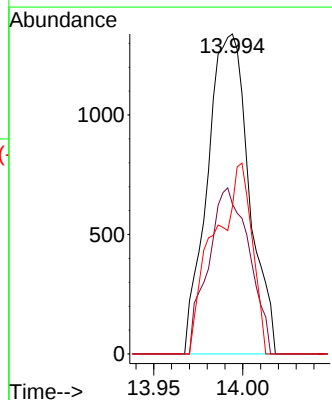
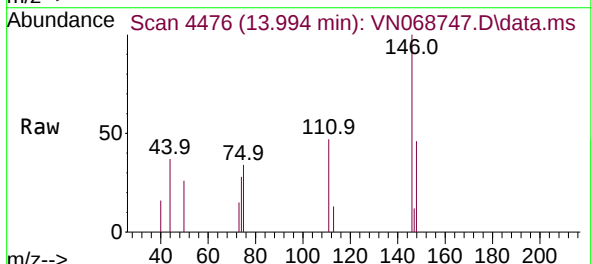
Instrument :  
MSVOA\_N  
ClientSampled :

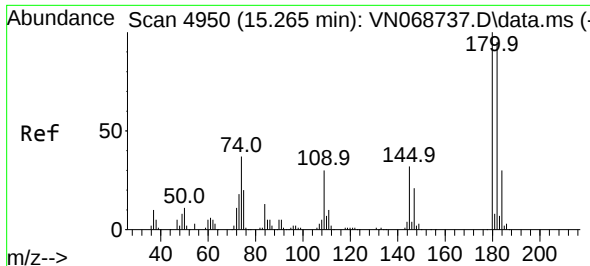
Tgt Ion: 75 Resp: 172604  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#



#91  
1,2-Dichlorobenzene  
Concen: 0.228 ug/l  
RT: 13.994 min Scan# 4476  
Delta R.T. 0.003 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

Tgt Ion: 146 Resp: 2183  
Ion Ratio Lower Upper  
146 100  
111 50.9 24.9 74.6  
148 54.1 31.6 95.0

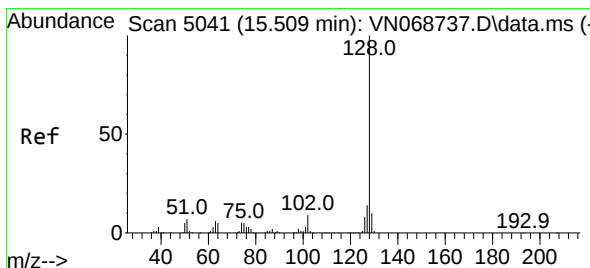
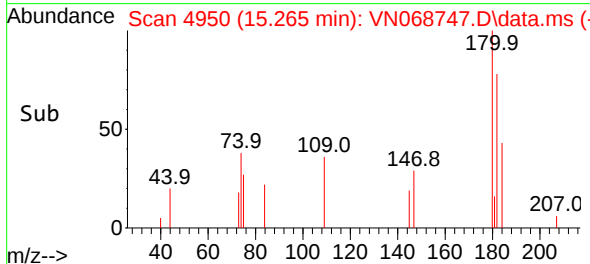
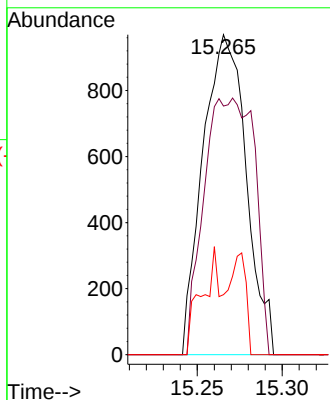
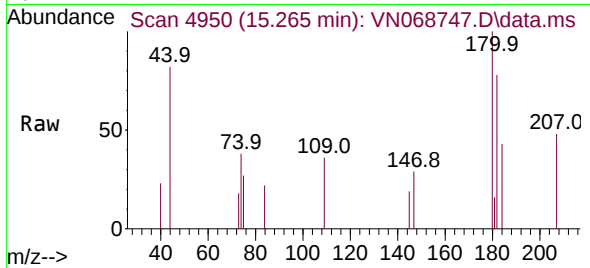




#93  
1,2,4-Trichlorobenzene  
Concen: 0.397 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

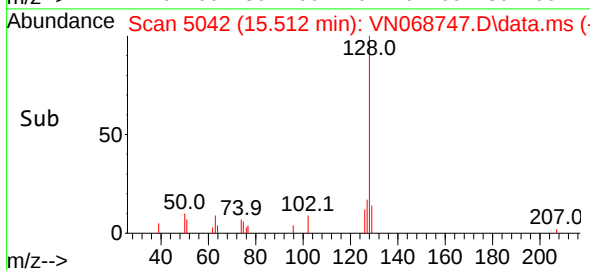
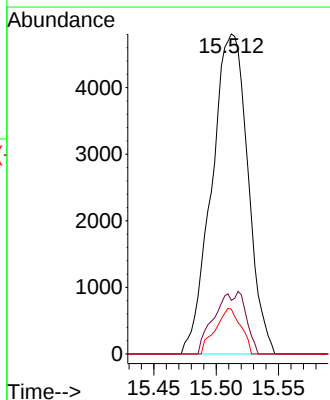
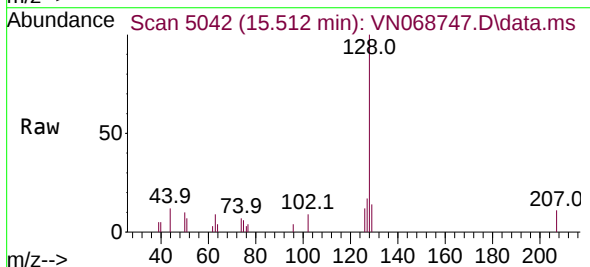
Instrument :  
MSVOA\_N  
ClientSampled :

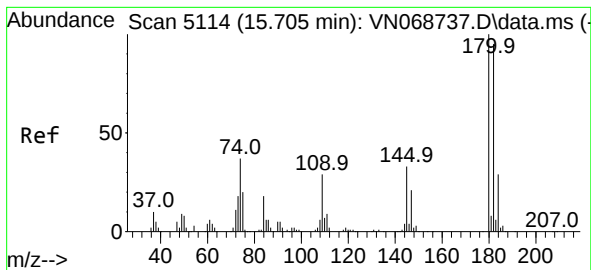
Tgt Ion:180 Resp: 1720  
Ion Ratio Lower Upper  
180 100  
182 40.8 47.5 142.5#  
145 14.6 17.2 51.6#



#95  
Naphthalene  
Concen: 2.206 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.003 min  
Lab File: VN068747.D  
Acq: 29 Sep 2021 18:40

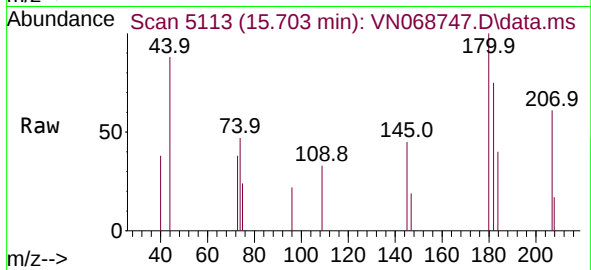
Tgt Ion:128 Resp: 9679  
Ion Ratio Lower Upper  
128 100  
127 10.0 10.6 15.8#  
129 10.0 8.6 12.8





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.439 ug/l  
 RT: 15.703 min Scan# 5113  
 Delta R.T. -0.002 min  
 Lab File: VN068747.D  
 Acq: 29 Sep 2021 18:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1826  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 65.4  | 47.8  | 143.3 |
| 145      | 36.6  | 18.2  | 54.6  |

