

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100121\  
 Data File : VN068793.D  
 Acq On : 1 Oct 2021 19:24  
 Operator : JC/MD  
 Sample : M4040-05  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 02 04:02:52 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

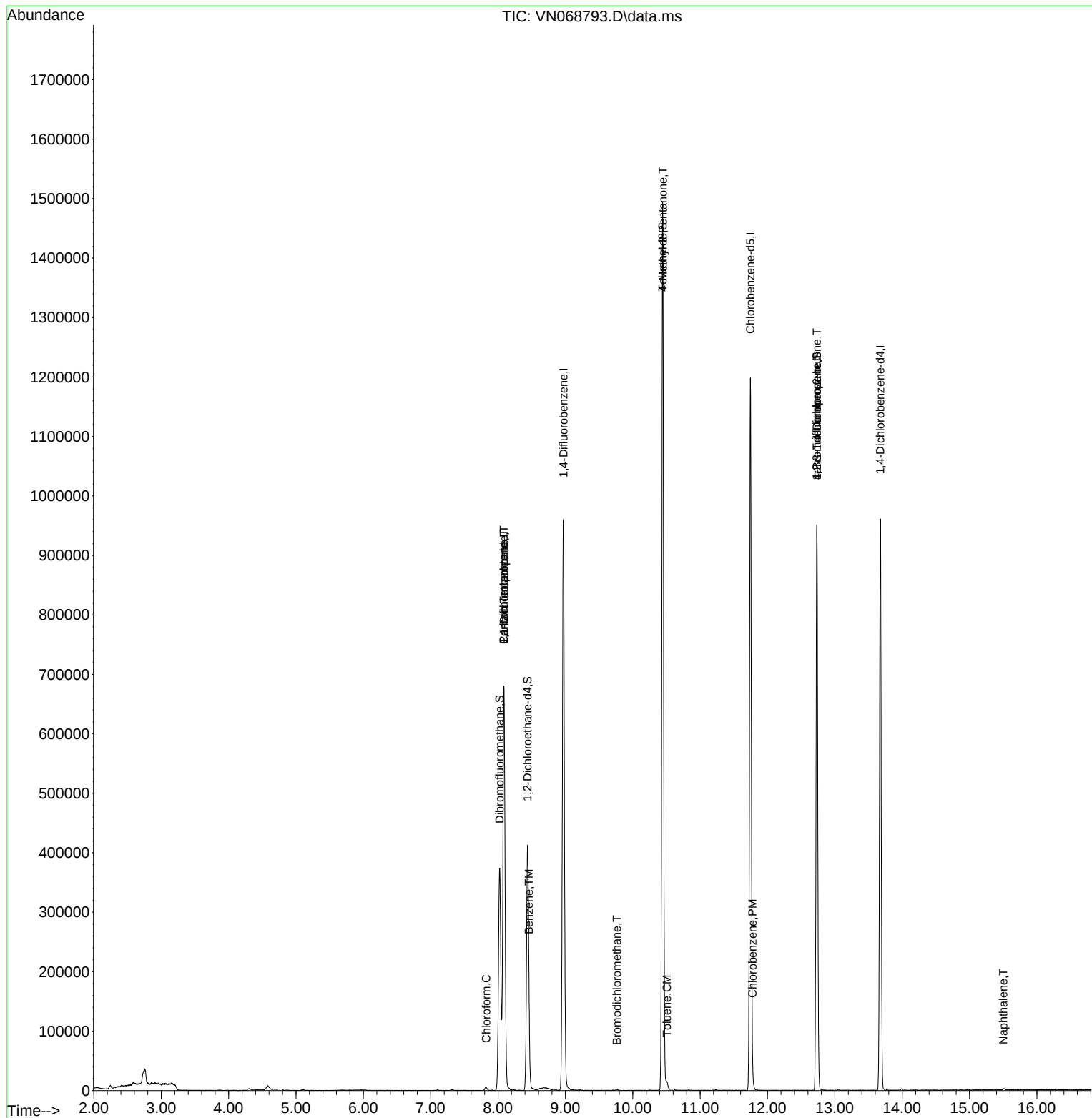
| Compound                      | R.T.   | T. QIon | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|---------|----------|-----------|------------|----------|
| -----                         |        |         |          |           |            |          |
| Internal Standards            |        |         |          |           |            |          |
| 1) Pentafluorobenzene         | 8.088  | 168     | 478694   | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.971  | 114     | 827680   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.746 | 117     | 685632   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675 | 152     | 242895   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |         |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65      | 341416   | 51.189    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range   | 61 - 141 | Recovery  | = 102.380% |          |
| 35) Dibromofluoromethane      | 8.024  | 113     | 268332   | 52.179    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range   | 69 - 133 | Recovery  | = 104.360% |          |
| 50) Toluene-d8                | 10.443 | 98      | 1018175  | 54.182    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range   | 65 - 126 | Recovery  | = 108.360% |          |
| 62) 4-Bromofluorobenzene      | 12.733 | 95      | 300929   | 46.086    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range   | 58 - 135 | Recovery  | = 92.180%  |          |
| Target Compounds              |        |         |          |           |            |          |
|                               |        |         |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.301  | 50      | 1003     | Below Cal | #          | 83       |
| 5) Bromomethane               | 2.866  | 94      | 341      | Below Cal | #          | 43       |
| 6) Chloroethane               | 3.057  | 64      | 241      | Below Cal |            | 89       |
| 13) Acrolein                  | 4.057  | 56      | 24       | Below Cal | #          | 14       |
| 16) Acetone                   | 4.285  | 43      | 1587     | Below Cal |            | 94       |
| 17) Carbon Disulfide          | 4.529  | 76      | 174      | Below Cal | #          | 74       |
| 30) Chloroform                | 7.823  | 83      | 5197     | 0.440     | ug/l       | 93       |
| 31) Cyclohexane               | 8.086  | 56      | 12949    | Below Cal | #          | 32       |
| 36) 1,1-Dichloropropene       | 8.088  | 75      | 40884    | 5.252     | ug/l       | # 52     |
| 38) Carbon Tetrachloride      | 8.088  | 117     | 51556    | 5.575     | ug/l       | # 17     |
| 40) Benzene                   | 8.458  | 78      | 7733     | 0.326     | ug/l       | 99       |
| 47) Bromodichloromethane      | 9.764  | 83      | 1977     | 0.210     | ug/l       | # 93     |
| 51) 4-Methyl-2-Pentanone      | 10.446 | 43      | 5105     | 0.621     | ug/l       | # 1      |
| 52) Toluene                   | 10.507 | 92      | 3213     | 0.203     | ug/l       | 89       |
| 65) Chlorobenzene             | 11.776 | 112     | 3867     | 0.247     | ug/l       | # 86     |
| 76) 1,2,3-Trichloropropane    | 12.733 | 75      | 176283   | 32.635    | ug/l       | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.733 | 75      | 176283   | 94.869    | ug/l       | # 6      |
| 95) Naphthalene               | 15.501 | 128     | 1396     | 1.565     | ug/l       | # 81     |
| -----                         |        |         |          |           |            |          |

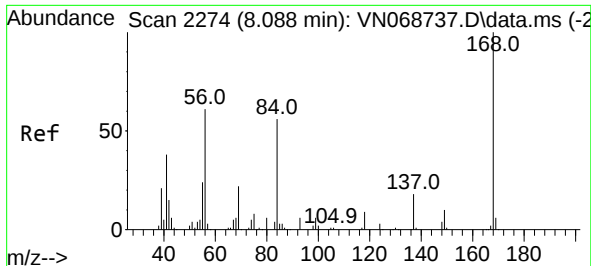
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M4040-05  
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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 02 04:02:52 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

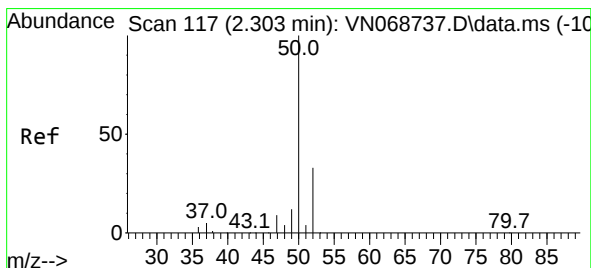
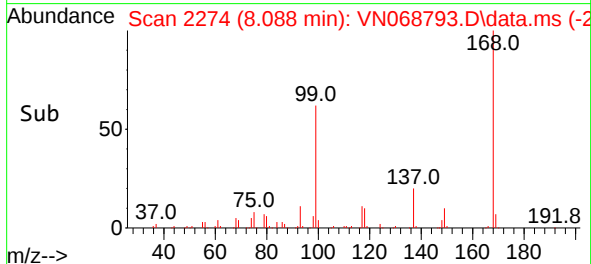
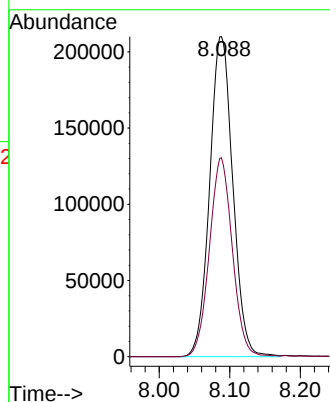
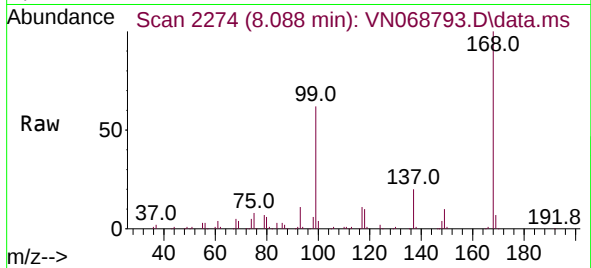




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.000 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

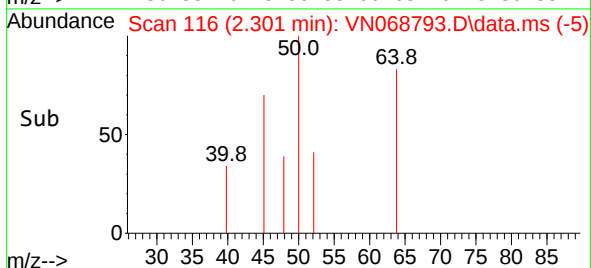
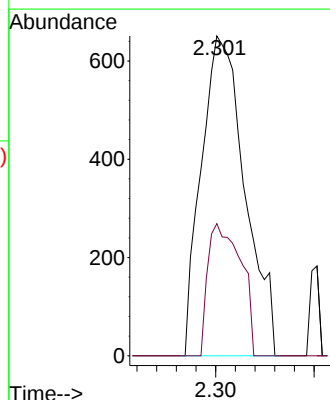
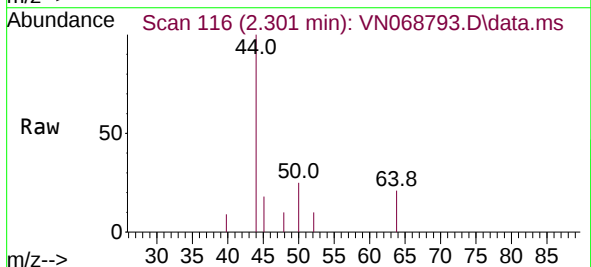
Instrument :  
MSVOA\_N  
ClientSampled :

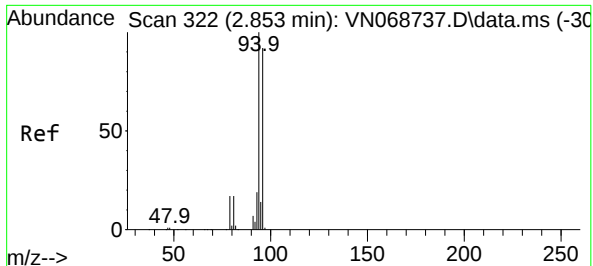
Tgt Ion:168 Resp: 478694  
Ion Ratio Lower Upper  
168 100  
99 62.2 62.9 94.3#



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.301 min Scan# 116  
Delta R.T. -0.002 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 50 Resp: 1003  
Ion Ratio Lower Upper  
50 100  
52 41.3 25.6 38.4#

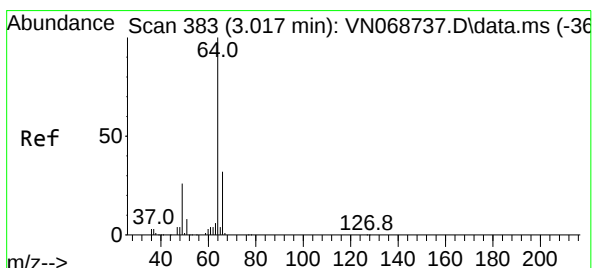
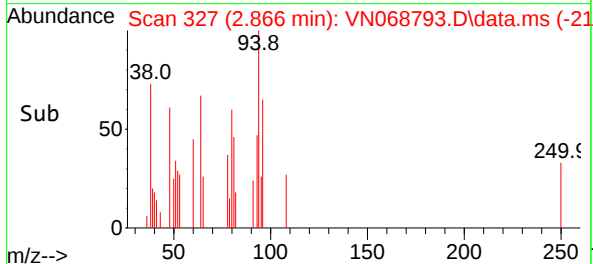
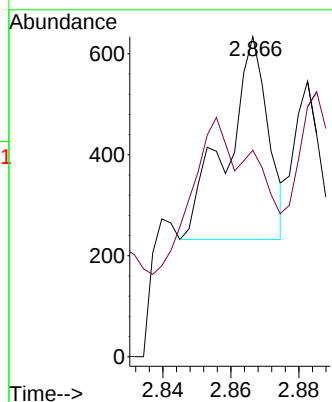
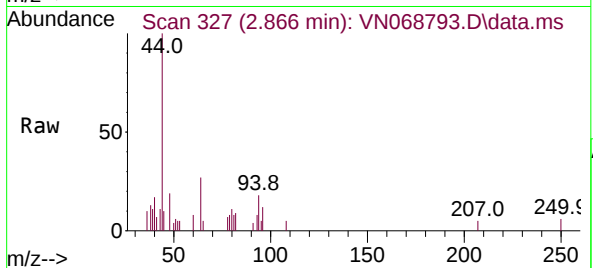




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.866 min Scan# 327  
Delta R.T. 0.013 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

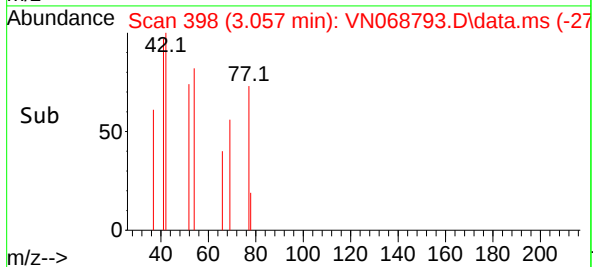
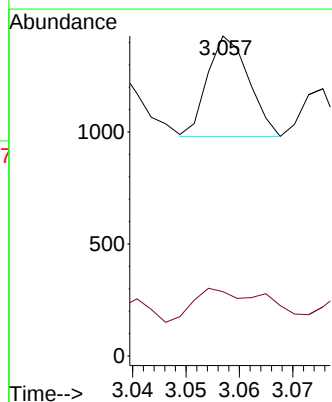
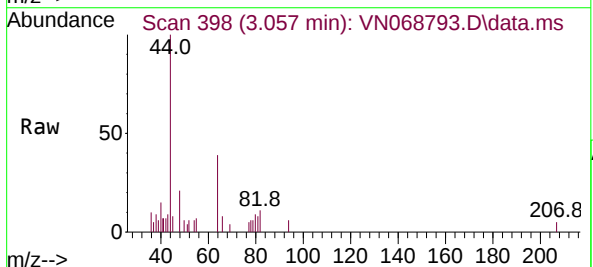
Instrument :  
MSVOA\_N  
ClientSampled :

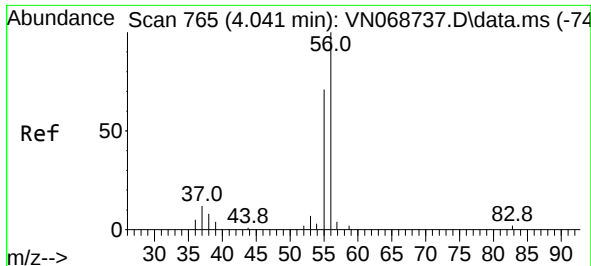
Tgt Ion: 94 Resp: 341  
Ion Ratio Lower Upper  
94 100  
96 37.8 73.7 110.5#



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.057 min Scan# 398  
Delta R.T. 0.040 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 64 Resp: 241  
Ion Ratio Lower Upper  
64 100  
66 24.7 24.7 37.1

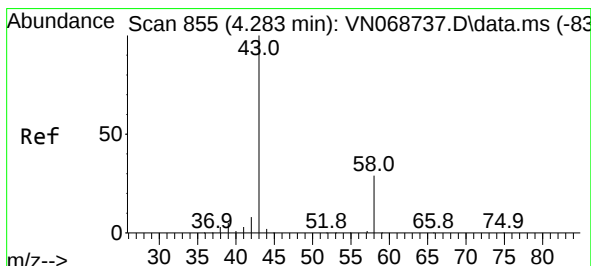
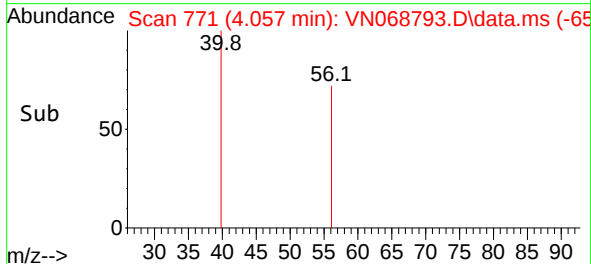
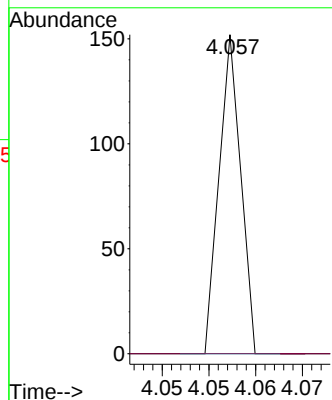
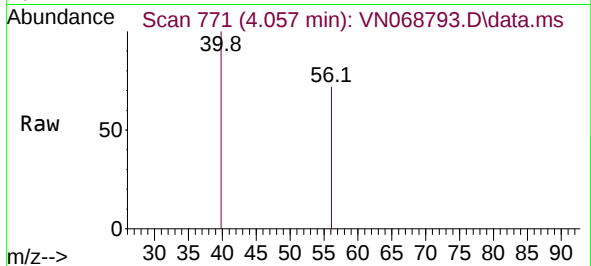




#13  
Acrolein  
Concen: Below Cal  
RT: 4.057 min Scan# 771  
Delta R.T. 0.016 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

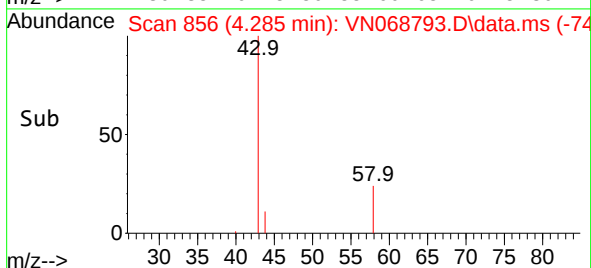
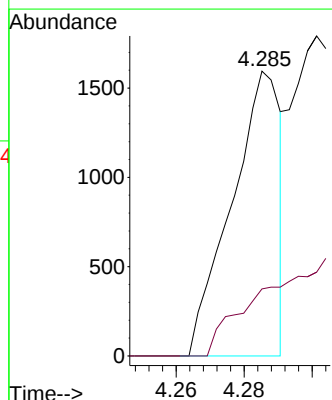
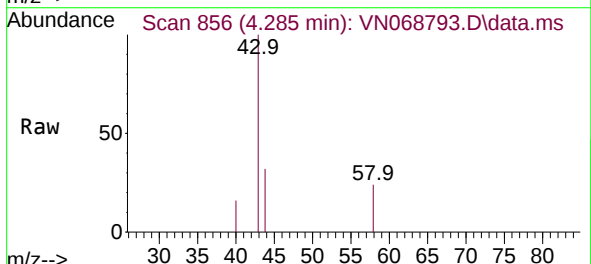
Instrument :  
MSVOA\_N  
ClientSampled :

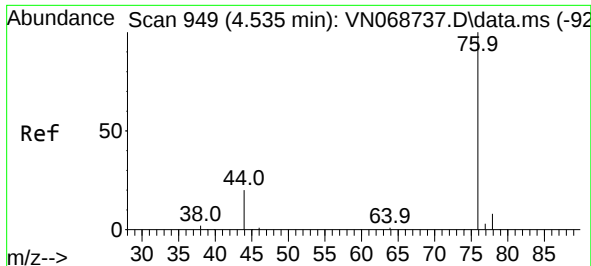
Tgt Ion: 56 Resp: 24  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.4 86.0#



#16  
Acetone  
Concen: Below Cal  
RT: 4.285 min Scan# 856  
Delta R.T. 0.002 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 43 Resp: 1587  
Ion Ratio Lower Upper  
43 100  
58 23.5 21.2 31.8

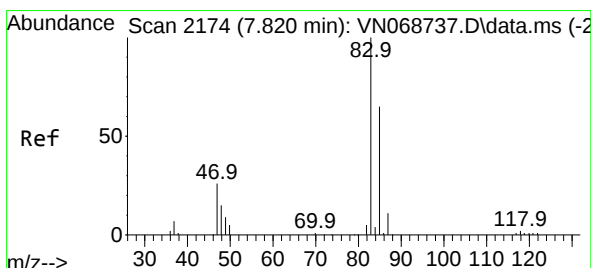
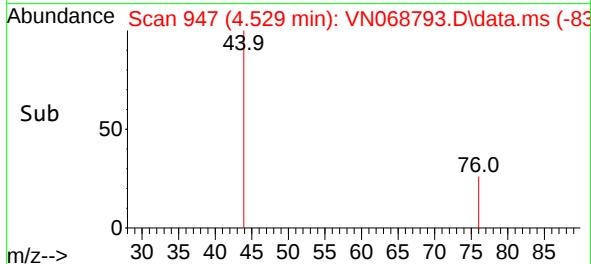
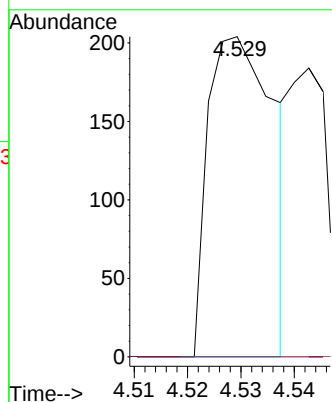
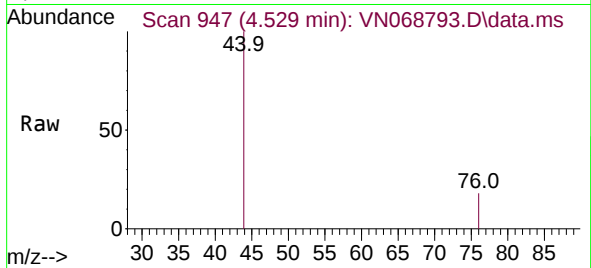




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.529 min Scan# 947  
Delta R.T. -0.006 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

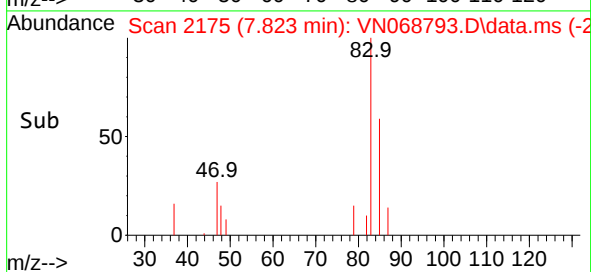
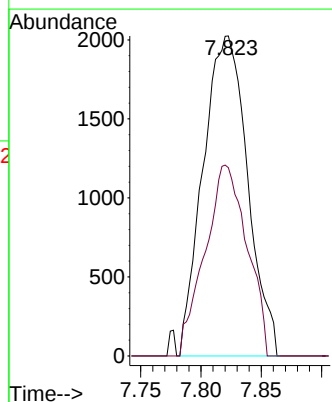
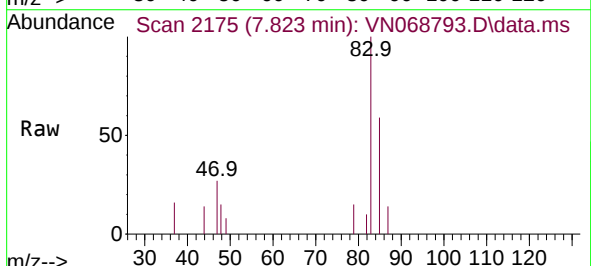
Instrument :  
MSVOA\_N  
ClientSampled :

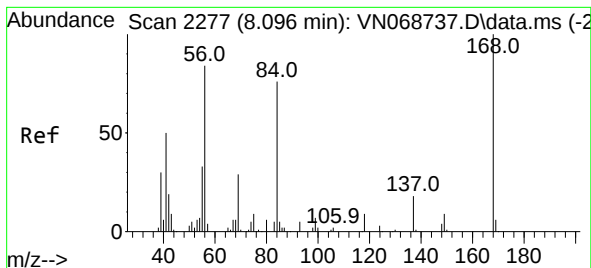
Tgt Ion: 76 Resp: 174  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.7 11.5#



#30  
Chloroform  
Concen: 0.440 ug/l  
RT: 7.823 min Scan# 2175  
Delta R.T. 0.003 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 83 Resp: 5197  
Ion Ratio Lower Upper  
83 100  
85 58.9 51.5 77.3

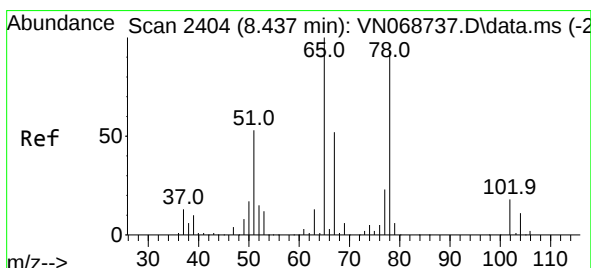
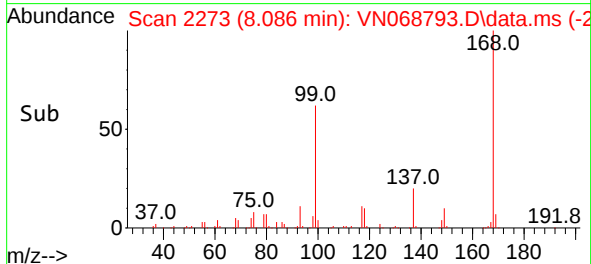
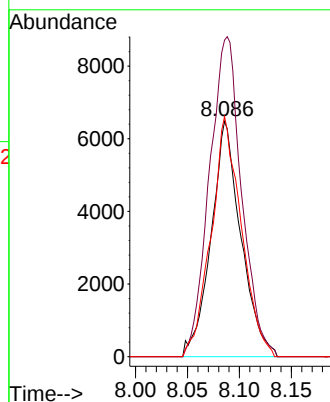
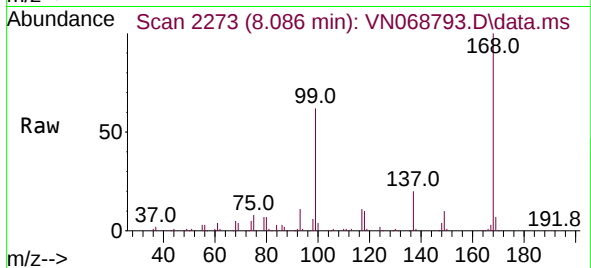




#31  
Cyclohexane  
Concen: Below Cal  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.010 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

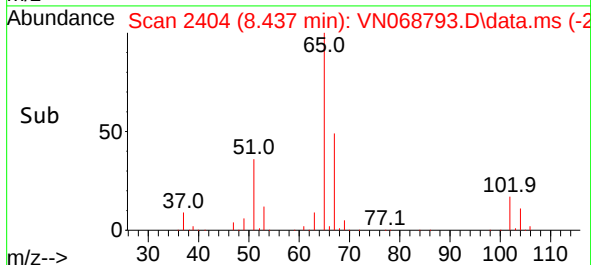
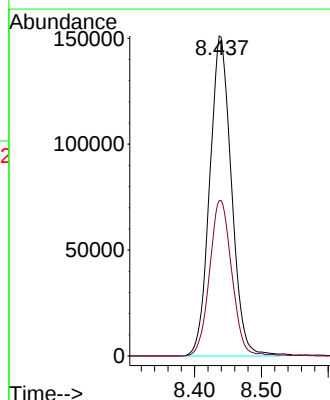
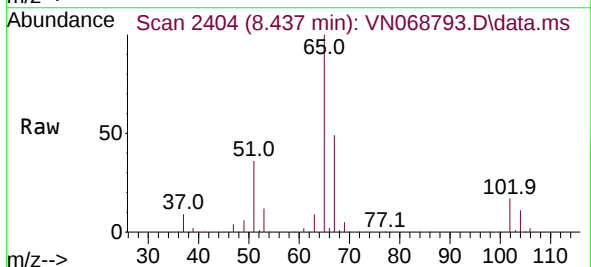
Instrument :  
MSVOA\_N  
ClientSampled :

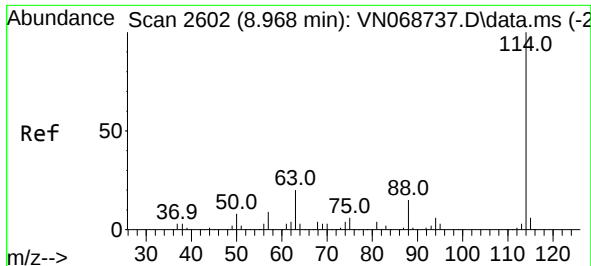
Tgt Ion: 56 Resp: 12949  
Ion Ratio Lower Upper  
56 100  
69 134.4 27.3 40.9#  
84 102.0 64.9 97.3#



#33  
1,2-Dichloroethane-d4  
Concen: 51.189 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. -0.000 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 65 Resp: 341416  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 98.6

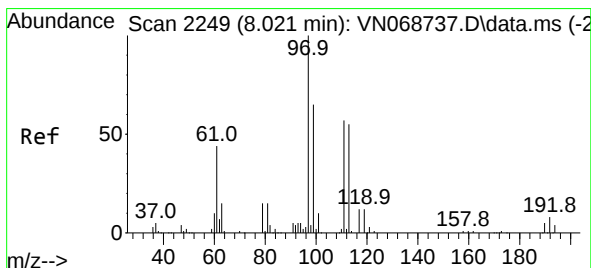
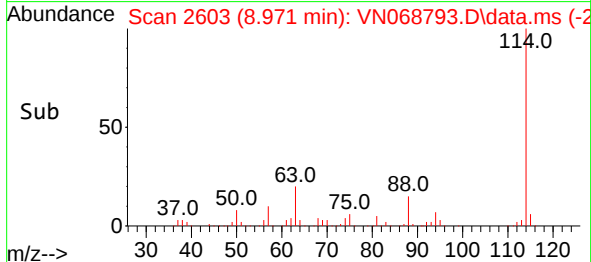
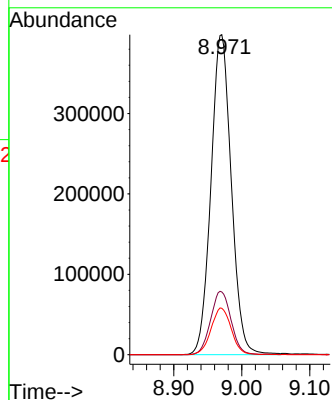
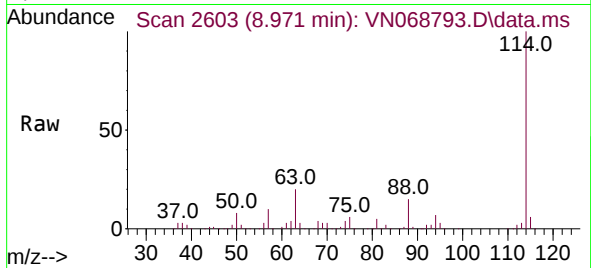




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

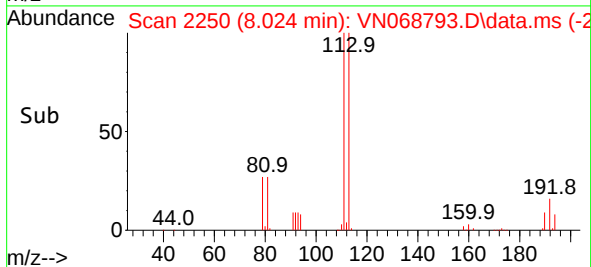
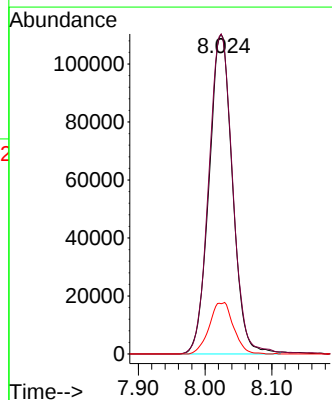
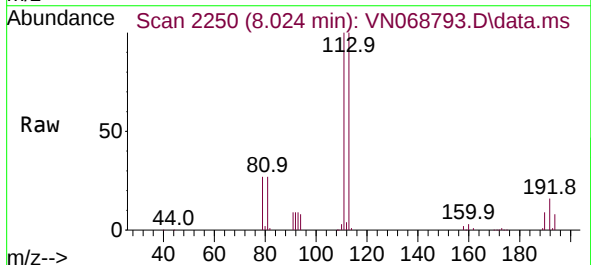
Instrument :  
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ClientSampled :

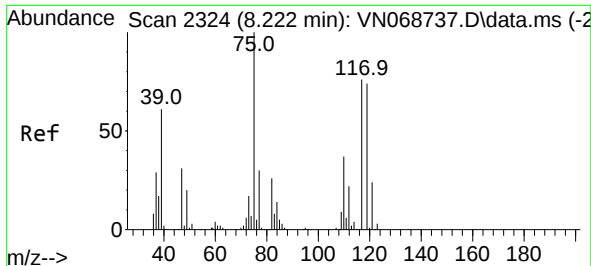
Tgt Ion:114 Resp: 827680  
Ion Ratio Lower Upper  
114 100  
63 19.6 0.0 49.0  
88 14.5 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 52.179 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion:113 Resp: 268332  
Ion Ratio Lower Upper  
113 100  
111 102.2 83.8 125.8  
192 16.6 13.4 20.0

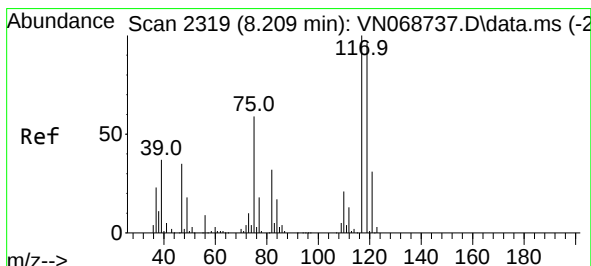
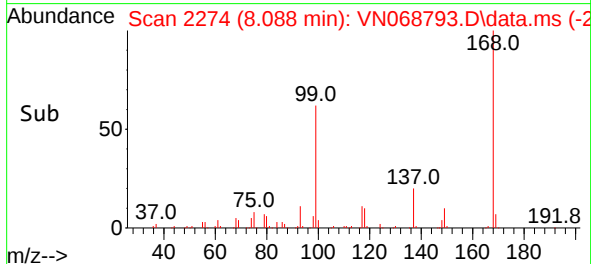
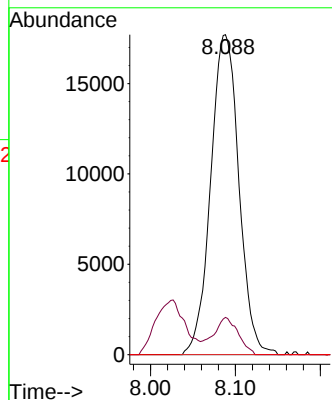
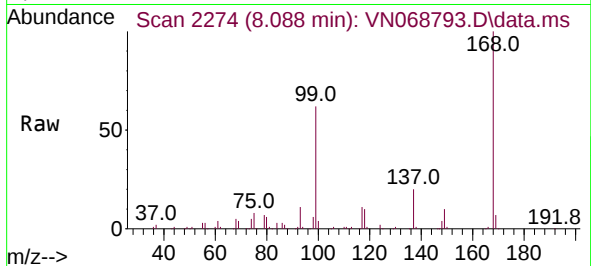




#36  
1,1-Dichloropropene  
Concen: 5.252 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

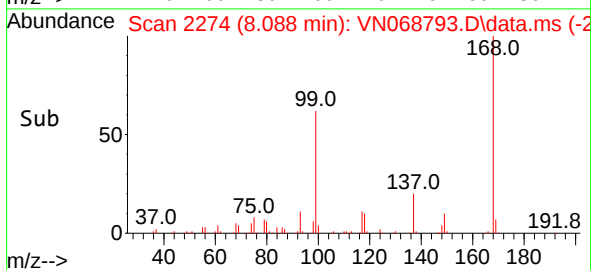
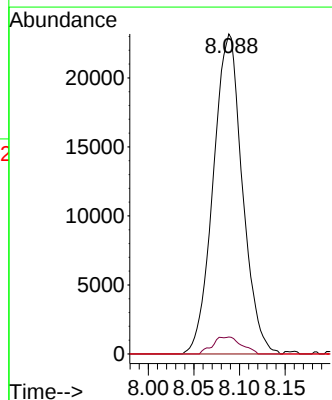
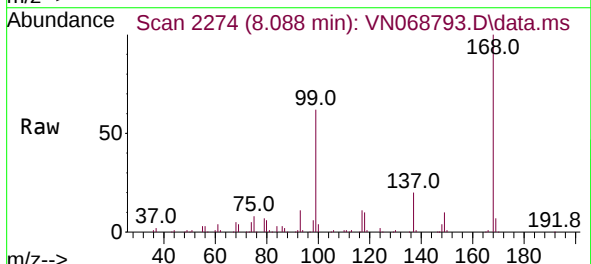
Instrument :  
MSVOA\_N  
ClientSampled :

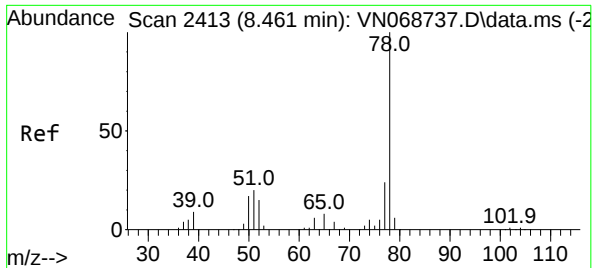
Tgt Ion: 75 Resp: 40884  
Ion Ratio Lower Upper  
75 100  
110 9.5 15.7 47.0#  
77 0.0 24.6 37.0#



#38  
Carbon Tetrachloride  
Concen: 5.575 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.121 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 117 Resp: 51556  
Ion Ratio Lower Upper  
117 100  
119 5.3 75.4 113.2#  
121 0.0 23.5 35.3#

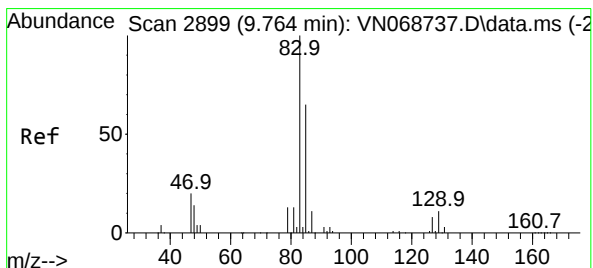
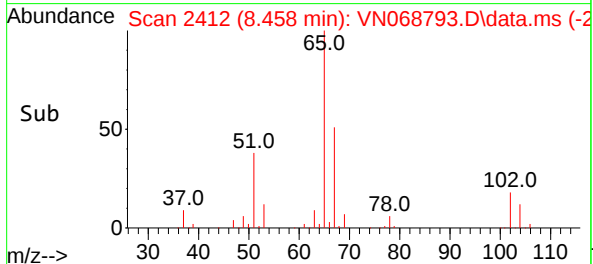
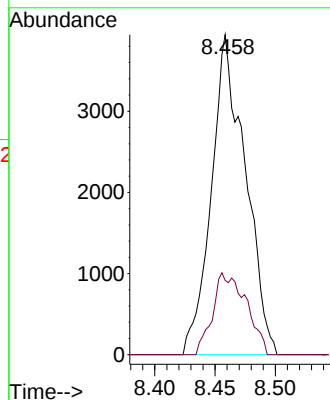
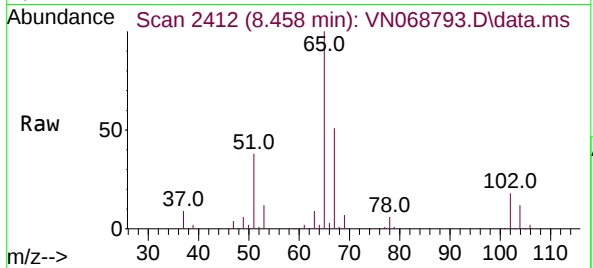




#40  
Benzene  
Concen: 0.326 ug/l  
RT: 8.458 min Scan# 2412  
Delta R.T. -0.003 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

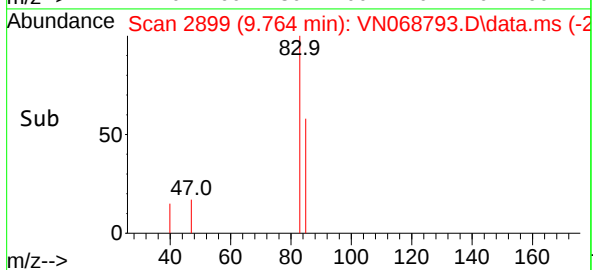
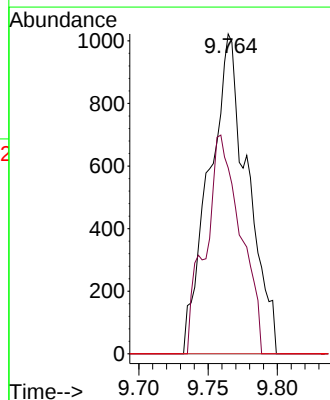
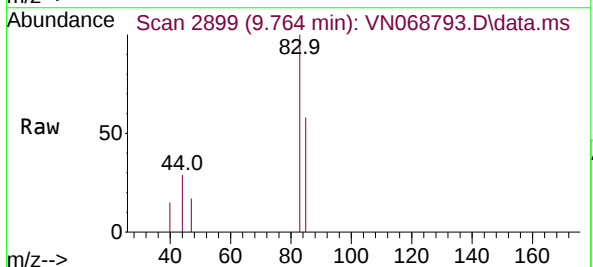
Instrument :  
MSVOA\_N  
ClientSampled :

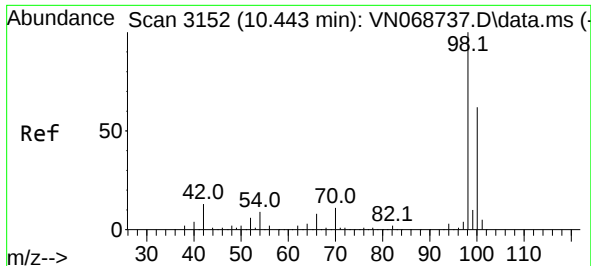
Tgt Ion: 78 Resp: 7733  
Ion Ratio Lower Upper  
78 100  
77 23.2 18.9 28.3



#47  
Bromodichloromethane  
Concen: 0.210 ug/l  
RT: 9.764 min Scan# 2899  
Delta R.T. 0.000 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 83 Resp: 1977  
Ion Ratio Lower Upper  
83 100  
85 58.1 49.9 74.9  
127 0.0 6.1 9.1#

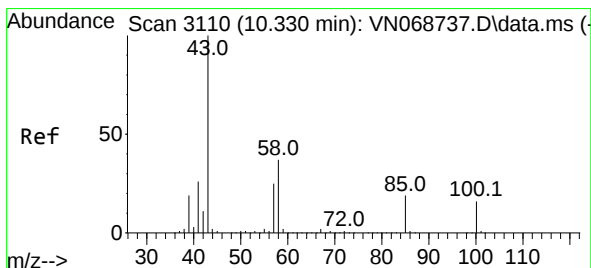
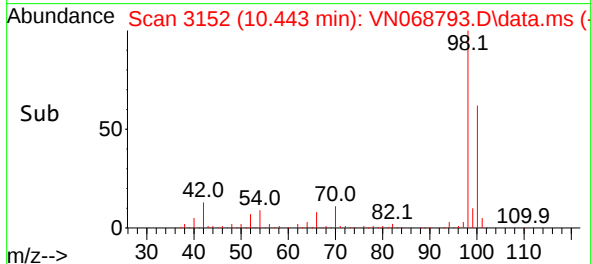
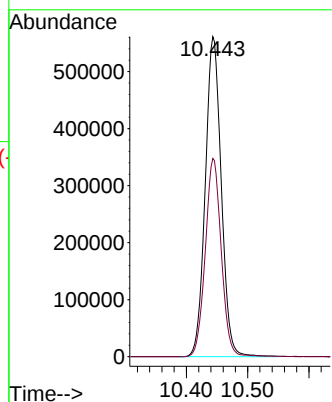
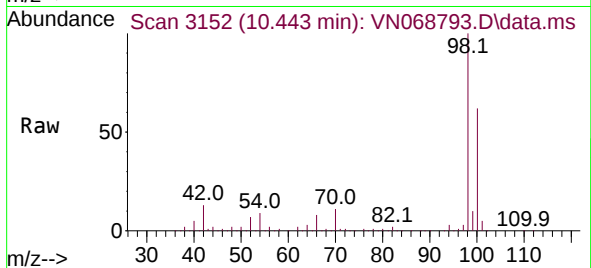




#50  
Toluene-d8  
Concen: 54.182 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

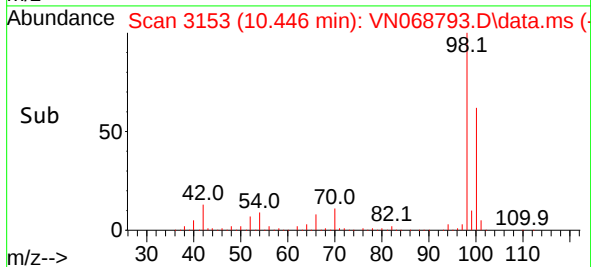
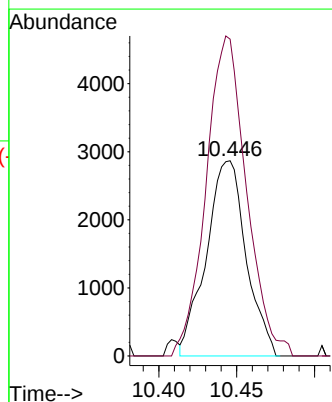
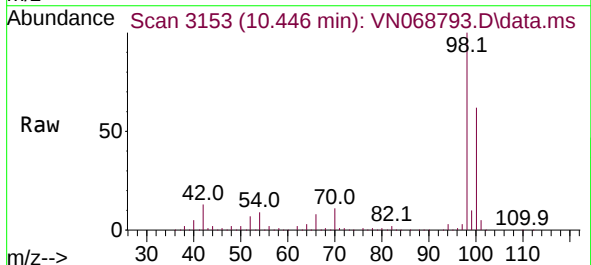
Instrument :  
MSVOA\_N  
ClientSampled :

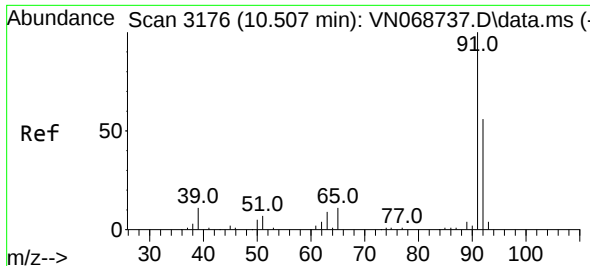
Tgt Ion: 98 Resp: 1018175  
Ion Ratio Lower Upper  
98 100  
100 61.9 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.621 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.116 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 43 Resp: 5105  
Ion Ratio Lower Upper  
43 100  
58 165.9 28.6 43.0#

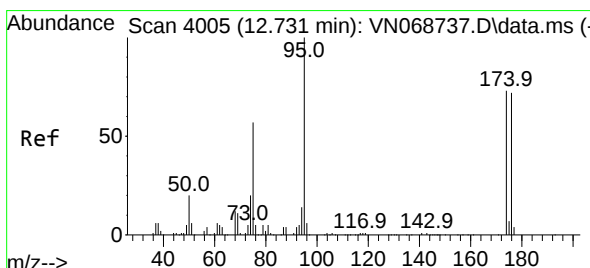
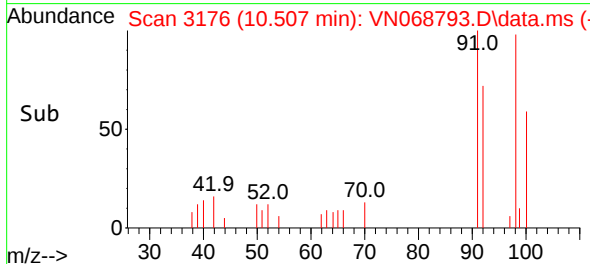
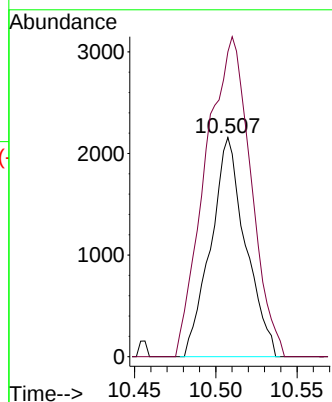
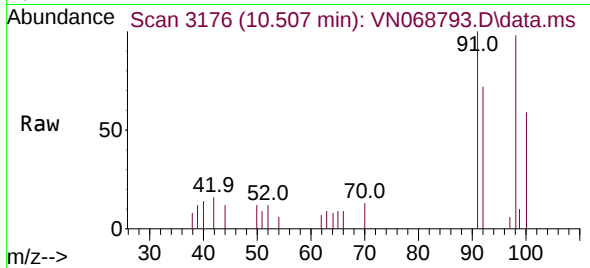




#52  
Toluene  
Concen: 0.203 ug/l  
RT: 10.507 min Scan# 3176  
Delta R.T. 0.000 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

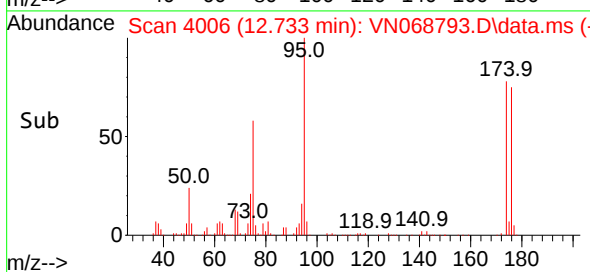
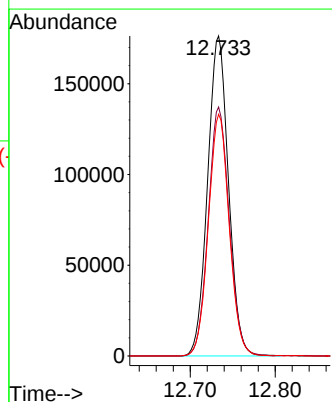
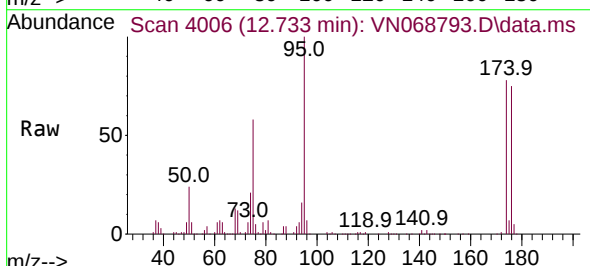
Instrument :  
MSVOA\_N  
ClientSampled :

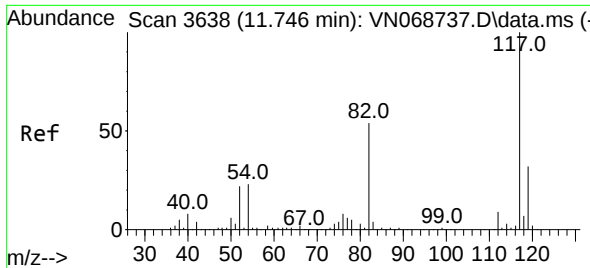
Tgt Ion: 92 Resp: 3213  
Ion Ratio Lower Upper  
92 100  
91 190.4 139.6 209.4



#62  
4-Bromofluorobenzene  
Concen: 46.086 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.002 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 95 Resp: 300929  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 122.0  
176 75.5 0.0 117.6

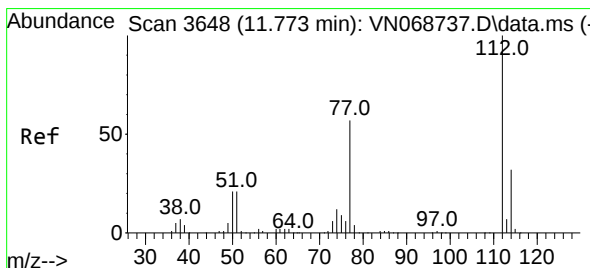
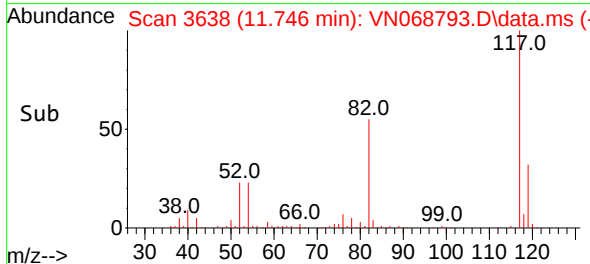
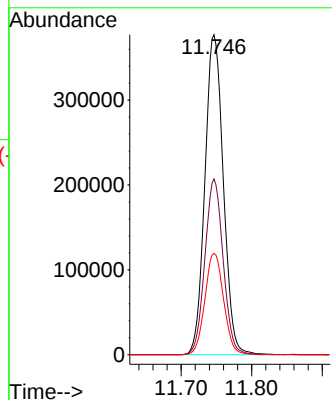
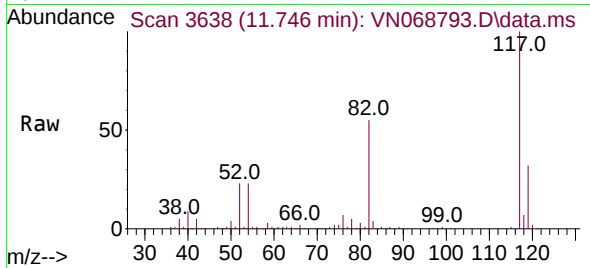




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

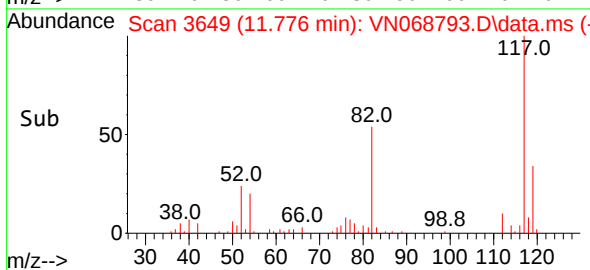
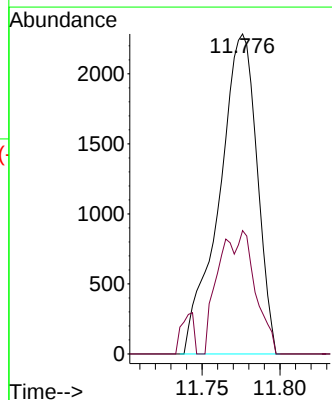
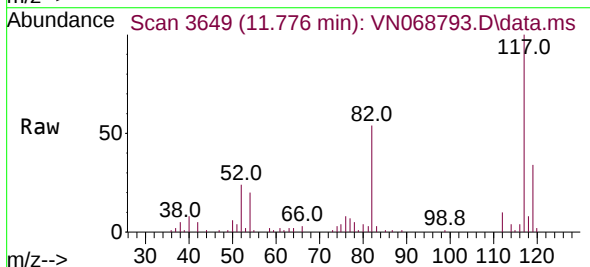
Instrument :  
MSVOA\_N  
ClientSampled :

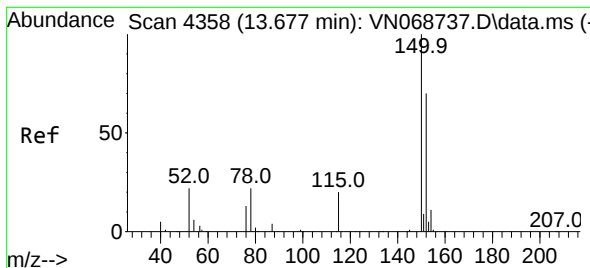
Tgt Ion:117 Resp: 685632  
Ion Ratio Lower Upper  
117 100  
82 54.9 53.1 79.7  
119 31.7 25.5 38.3



#65  
Chlorobenzene  
Concen: 0.247 ug/l  
RT: 11.776 min Scan# 3649  
Delta R.T. 0.003 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion:112 Resp: 3867  
Ion Ratio Lower Upper  
112 100  
114 38.6 24.6 37.0#



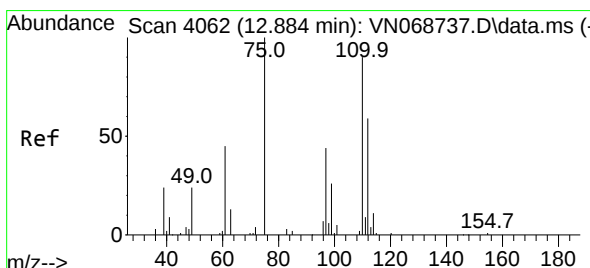
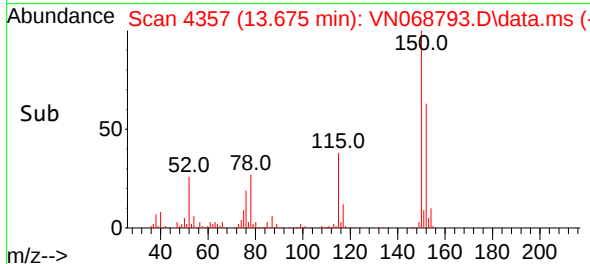
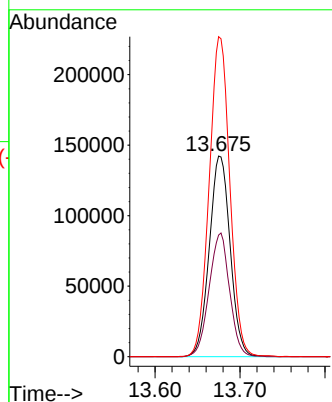
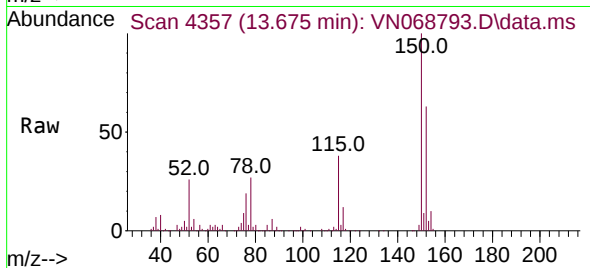


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. -0.002 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Instrument :  
MSVOA\_N  
ClientSampled :

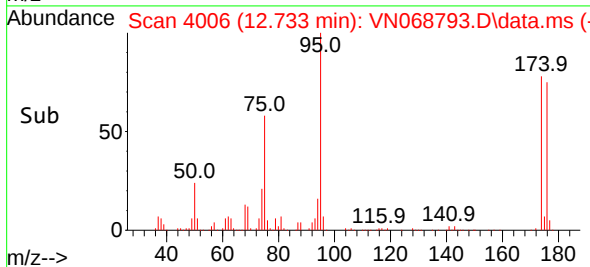
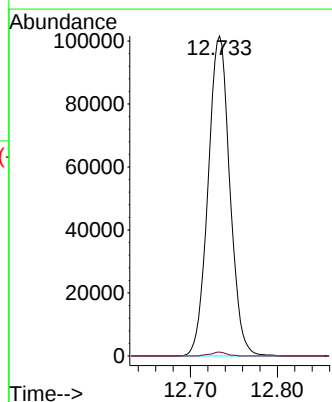
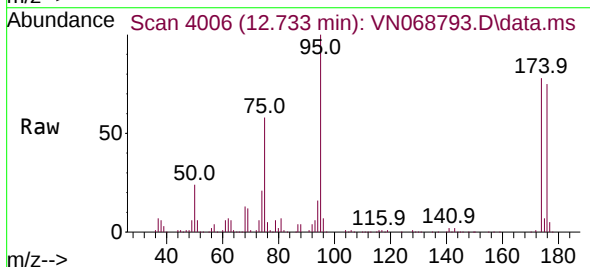
Tgt Ion:152 Resp: 242895  
Ion Ratio Lower Upper  
152 100  
115 60.3 36.1 108.5  
150 157.2 0.0 351.8

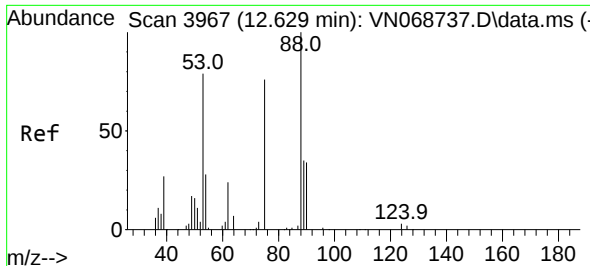


#76

1,2,3-Trichloropropane  
Concen: 32.635 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.151 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion: 75 Resp: 176283  
Ion Ratio Lower Upper  
75 100  
77 0.9 0.0 0.0#

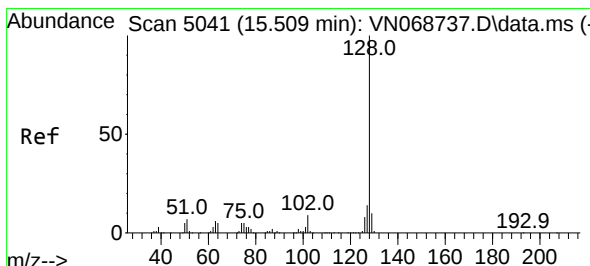
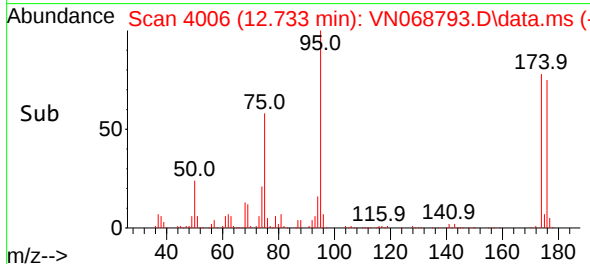
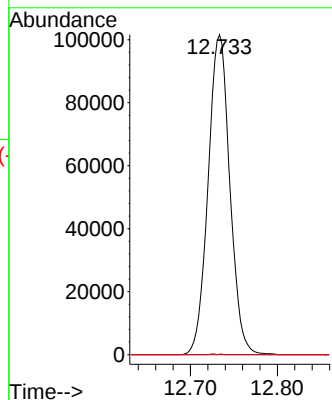
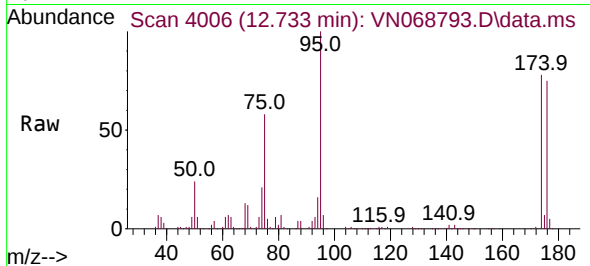




#81  
trans-1,4-Dichloro-2-butene  
Concen: 94.869 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.104 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 75 Resp: 176283  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#



#95  
Naphthalene  
Concen: 1.565 ug/l  
RT: 15.501 min Scan# 5038  
Delta R.T. -0.008 min  
Lab File: VN068793.D  
Acq: 1 Oct 2021 19:24

Tgt Ion:128 Resp: 1396  
Ion Ratio Lower Upper  
128 100  
127 8.5 10.6 15.8#  
129 0.0 8.6 12.8#

