

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102721\  
 Data File : VN069208.D  
 Acq On : 27 Oct 2021 1:35  
 Operator : JC/MD  
 Sample : M4337-22  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 27 09:26:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

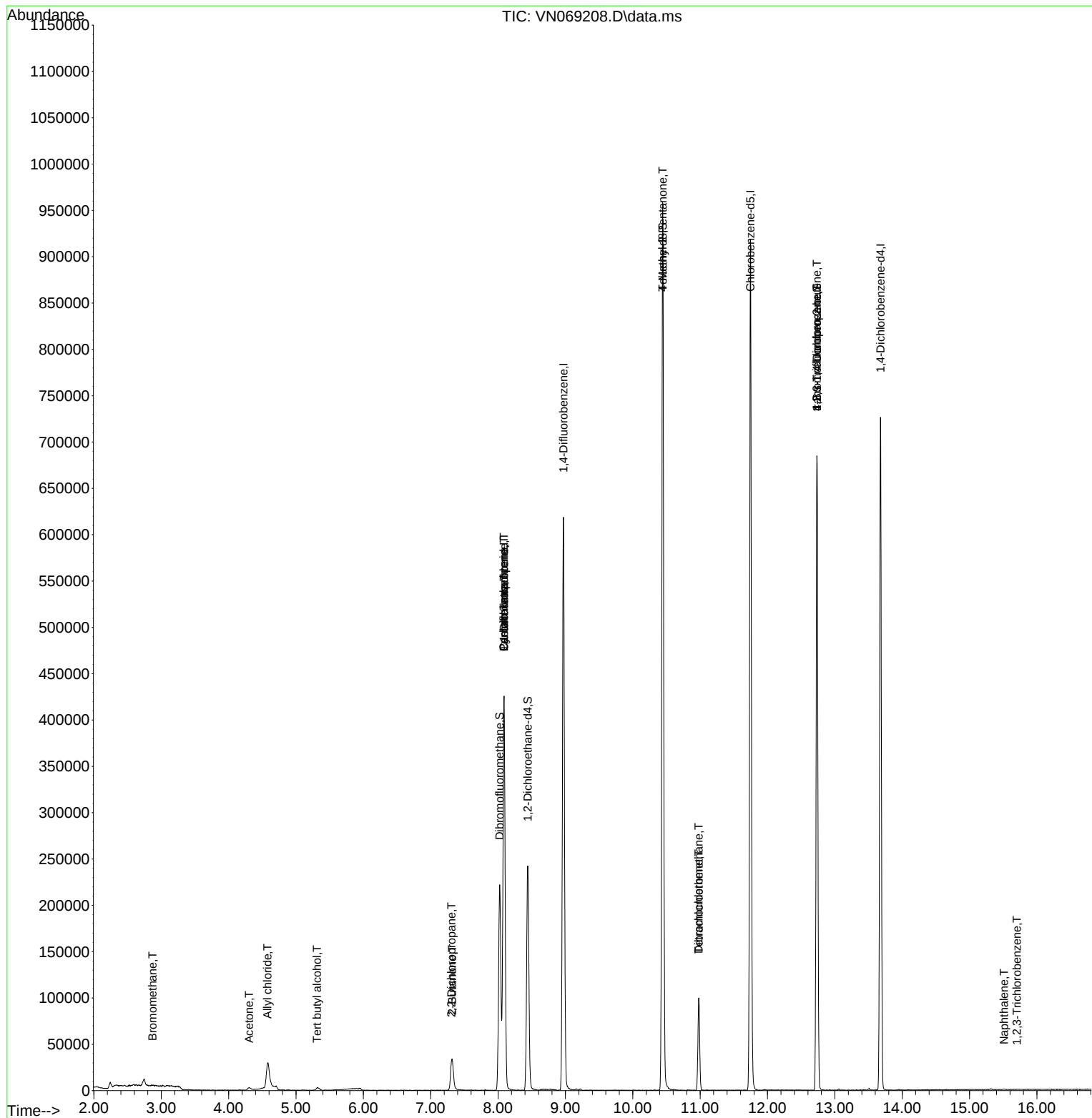
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.088     | 168   | 318970   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971     | 114   | 553523   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.747    | 117   | 538105   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678    | 152   | 193975   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.440     | 65    | 210868   | 50.141   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 61 - 141 | Recovery | = 100.280% |          |
| 35) Dibromofluoromethane      | 8.024     | 113   | 163005   | 50.616   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 69 - 133 | Recovery | = 101.240% |          |
| 50) Toluene-d8                | 10.443    | 98    | 694872   | 53.927   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 126 | Recovery | = 107.860% |          |
| 62) 4-Bromofluorobenzene      | 12.734    | 95    | 246587   | 50.722   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 135 | Recovery | = 101.440% |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 2.869     | 94    | 546      | 0.251    | ug/l       | 85       |
| 11) Tert butyl alcohol        | 5.313     | 59    | 1403     | 1.826    | ug/l #     | 72       |
| 14) Allyl chloride            | 4.578     | 41    | 3396     | 0.615    | ug/l #     | 27       |
| 16) Acetone                   | 4.301     | 43    | 5601     | 3.569    | ug/l       | 93       |
| 25) 2-Butanone                | 7.319     | 43    | 1277     | 0.538    | ug/l #     | 48       |
| 26) 2,2-Dichloropropane       | 7.308     | 77    | 2523     | 0.424    | ug/l #     | 53       |
| 31) Cyclohexane               | 8.088     | 56    | 7487     | 1.145    | ug/l #     | 6        |
| 36) 1,1-Dichloropropene       | 8.088     | 75    | 26086    | 5.517    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 8.088     | 117   | 33275    | 6.408    | ug/l #     | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.443    | 43    | 3174     | 0.635    | ug/l #     | 1        |
| 60) Dibromochloromethane      | 10.980    | 129   | 22811    | 5.534    | ug/l #     | 10       |
| 64) Tetrachloroethene         | 10.980    | 164   | 22980    | 6.629    | ug/l       | 97       |
| 76) 1,2,3-Trichloropropane    | 12.734    | 75    | 129800   | 31.450   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.734    | 75    | 129800   | 75.241   | ug/l #     | 12       |
| 95) Naphthalene               | 15.512    | 128   | 908      | 3.905    | ug/l #     | 69       |
| 96) 1,2,3-Trichlorobenzene    | 15.702    | 180   | 144      | 2.558    | ug/l #     | 12       |
| -----                         |           |       |          |          |            |          |

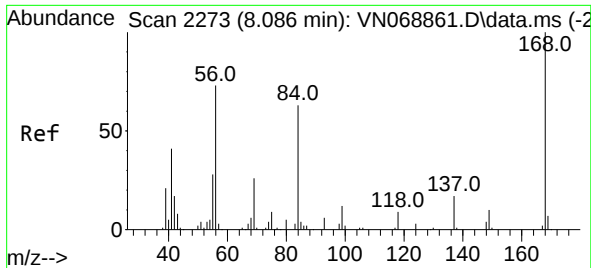
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102721\  
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Sample : M4337-22  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 27 09:26:36 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

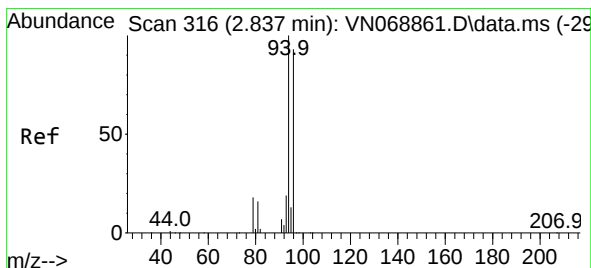
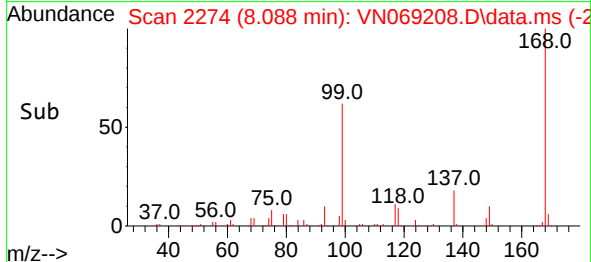
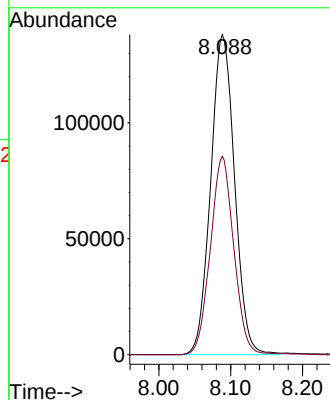
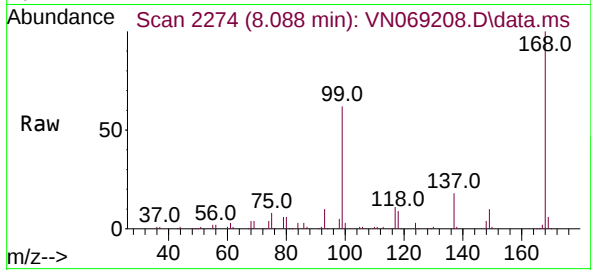




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

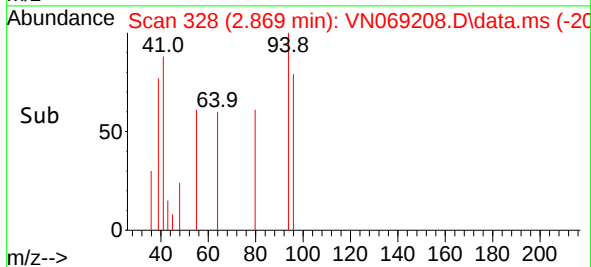
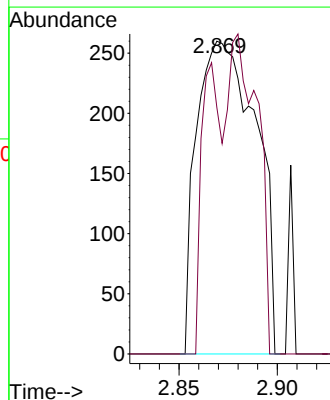
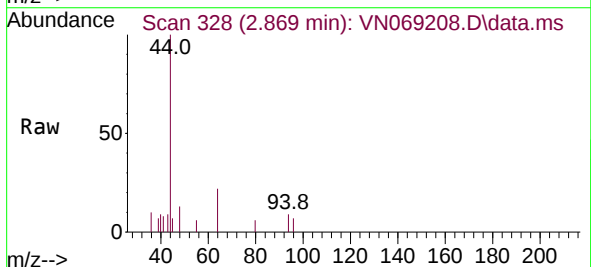
Instrument :  
MSVOA\_N  
ClientSampled :

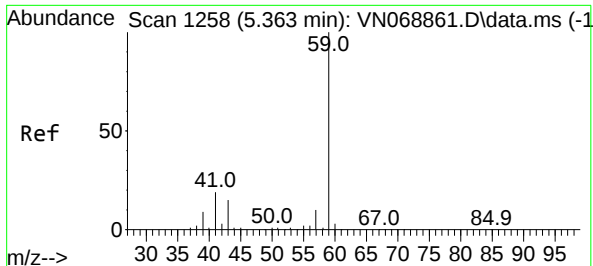
Tgt Ion:168 Resp: 318970  
Ion Ratio Lower Upper  
168 100  
99 62.0 48.9 73.3



#5  
Bromomethane  
Concen: 0.251 ug/l  
RT: 2.869 min Scan# 328  
Delta R.T. 0.032 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 94 Resp: 546  
Ion Ratio Lower Upper  
94 100  
96 78.8 74.2 111.4

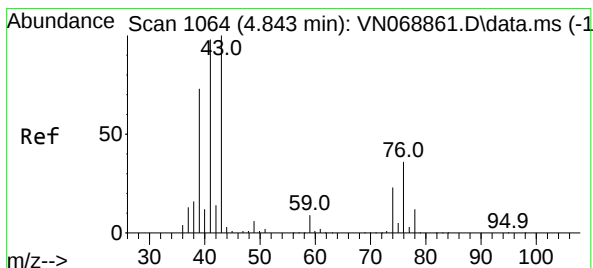
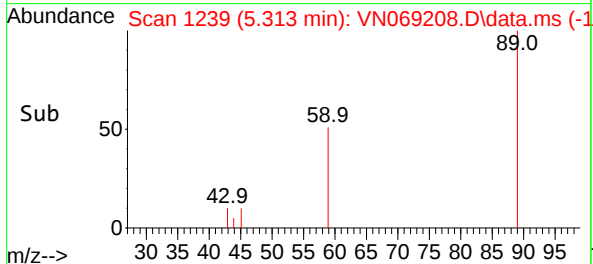
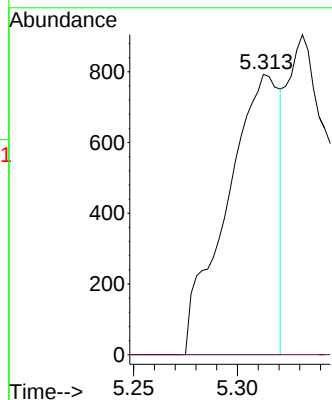
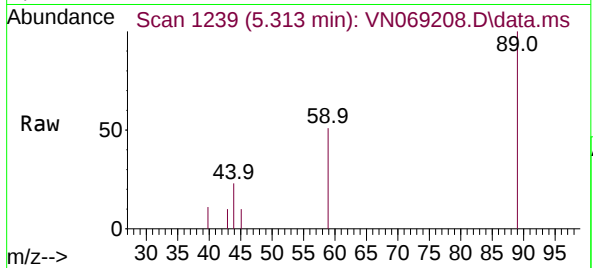




#11  
Tert butyl alcohol  
Concen: 1.826 ug/l  
RT: 5.313 min Scan# 1239  
Delta R.T. -0.051 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

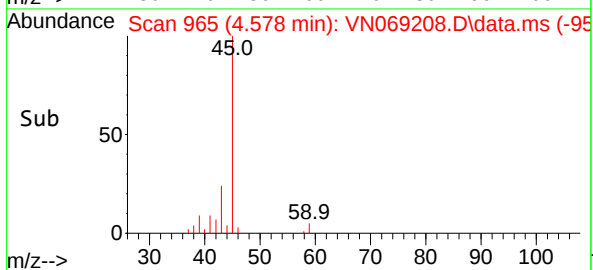
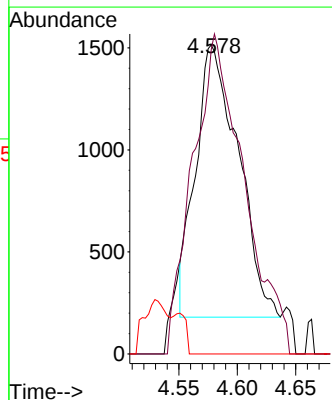
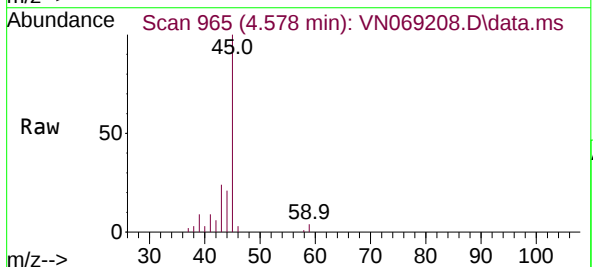
Instrument :  
MSVOA\_N  
ClientSampled :

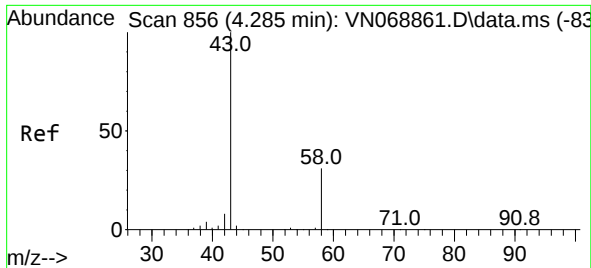
Tgt Ion: 59 Resp: 1403  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#14  
Allyl chloride  
Concen: 0.615 ug/l  
RT: 4.578 min Scan# 965  
Delta R.T. -0.265 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 41 Resp: 3396  
Ion Ratio Lower Upper  
41 100  
39 134.3 55.6 83.4#  
76 0.0 26.4 39.6#

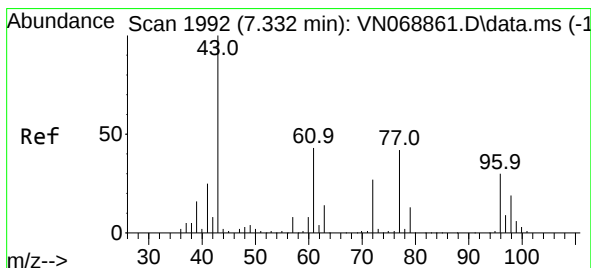
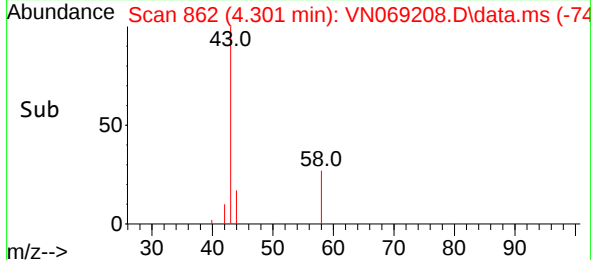
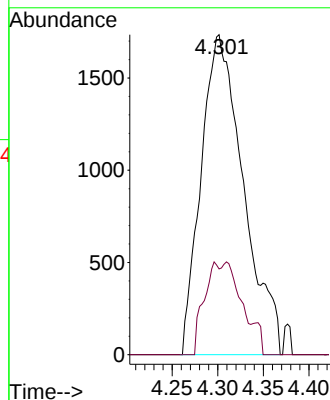
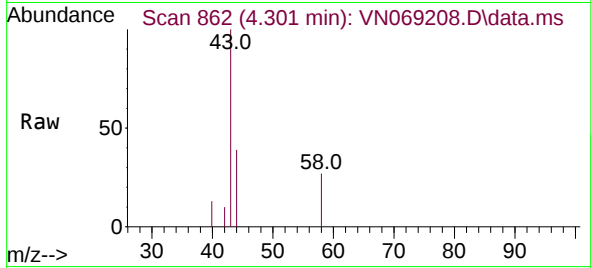




#16  
Acetone  
Concen: 3.569 ug/l  
RT: 4.301 min Scan# 862  
Delta R.T. 0.016 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

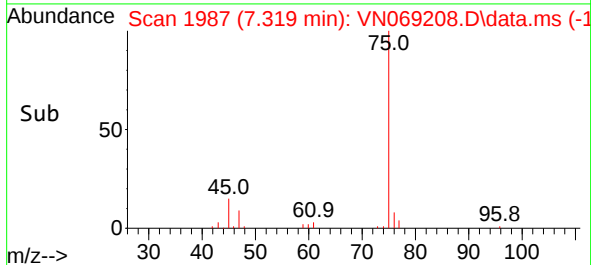
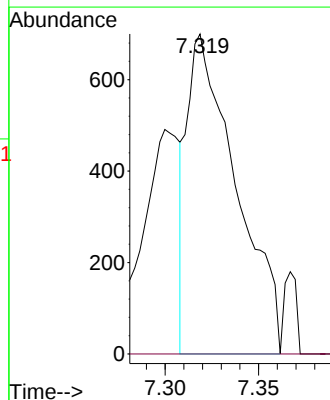
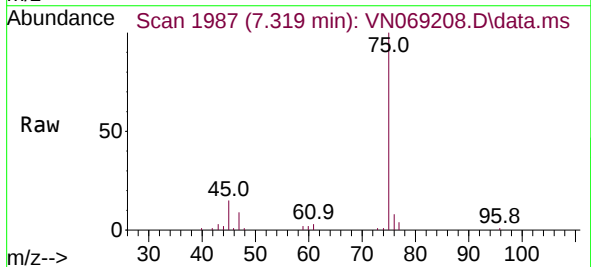
Instrument :  
MSVOA\_N  
ClientSampled :

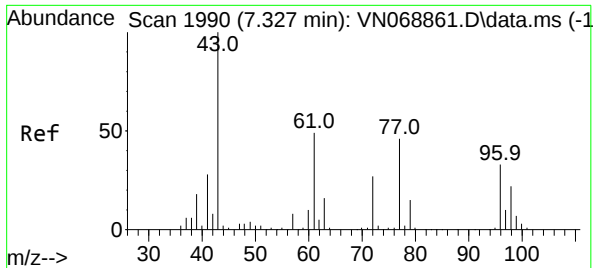
Tgt Ion: 43 Resp: 5601  
Ion Ratio Lower Upper  
43 100  
58 26.8 24.5 36.7



#25  
2-Butanone  
Concen: 0.538 ug/l  
RT: 7.319 min Scan# 1987  
Delta R.T. -0.013 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 43 Resp: 1277  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.2 31.8#

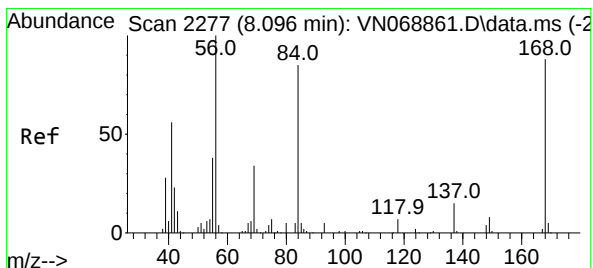
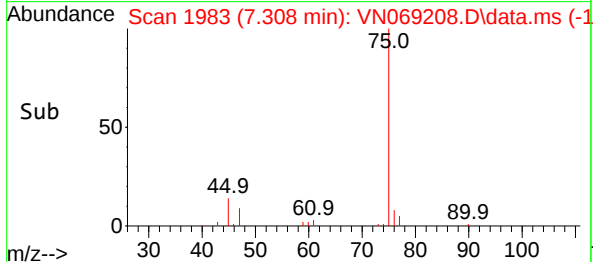
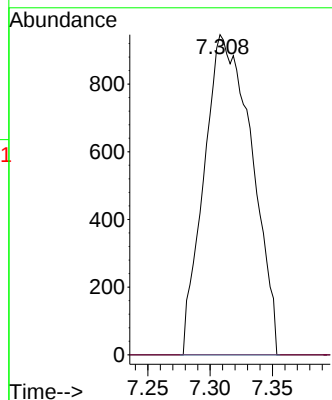
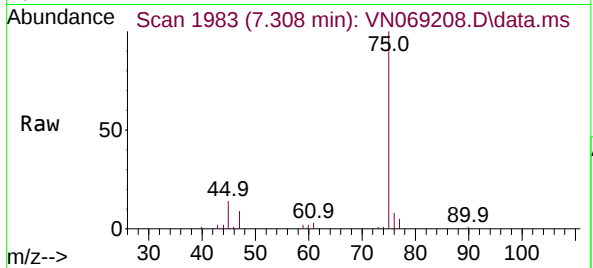




#26  
2,2-Dichloropropane  
Concen: 0.424 ug/l  
RT: 7.308 min Scan# 1983  
Delta R.T. -0.019 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

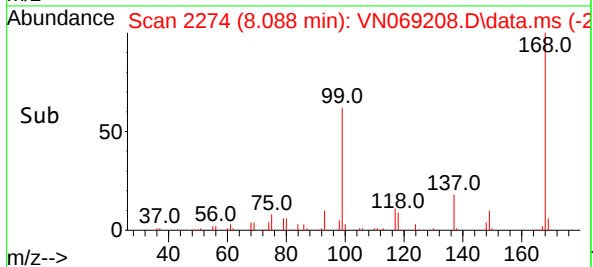
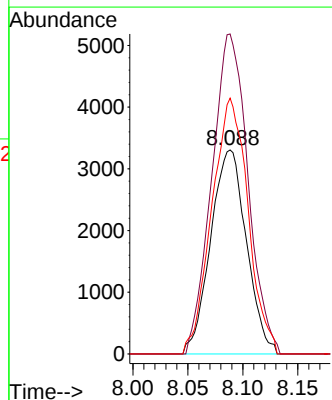
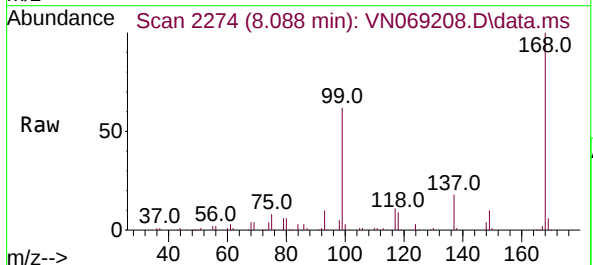
Instrument :  
MSVOA\_N  
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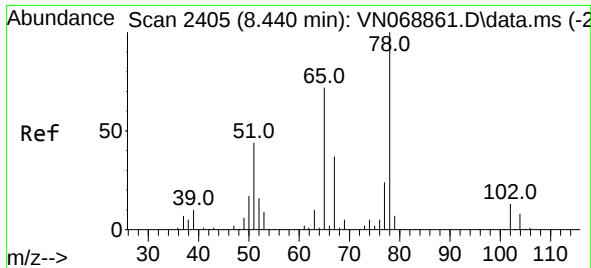
Tgt Ion: 77 Resp: 2523  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.2 33.6#



#31  
Cyclohexane  
Concen: 1.145 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.008 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 56 Resp: 7487  
Ion Ratio Lower Upper  
56 100  
69 156.9 26.9 40.3#  
84 125.5 67.6 101.4#

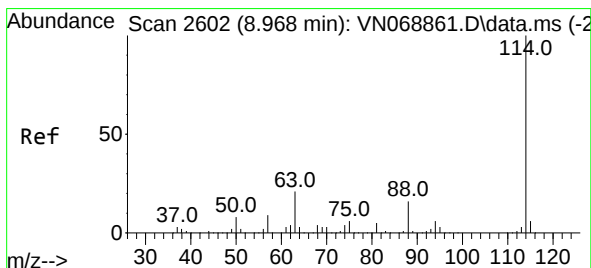
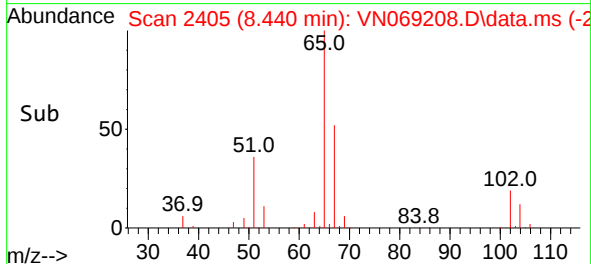
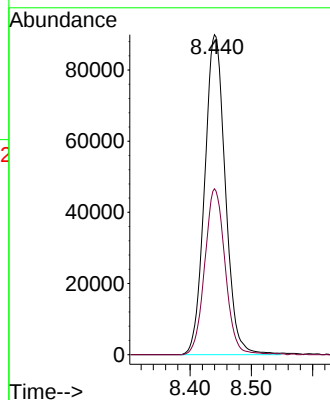
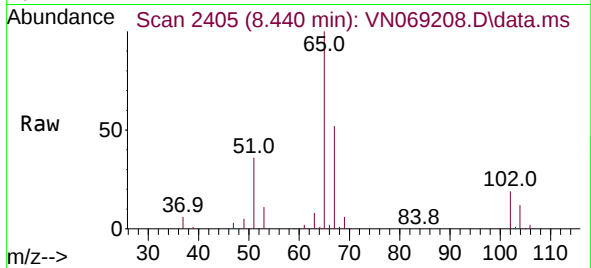




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.141 ug/l  
 RT: 8.440 min Scan# 2405  
 Delta R.T. 0.000 min  
 Lab File: VN069208.D  
 Acq: 27 Oct 2021 1:35

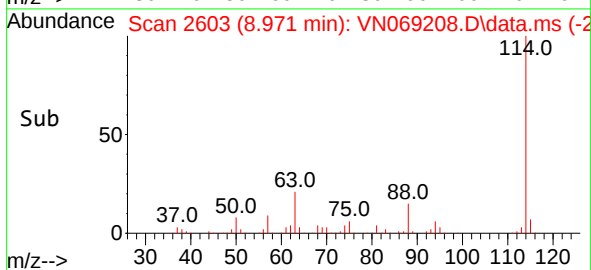
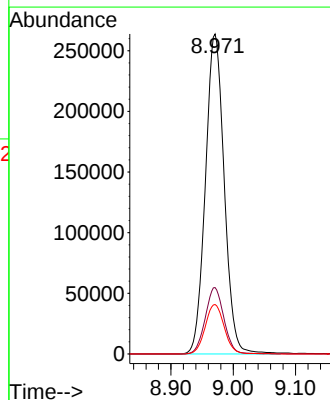
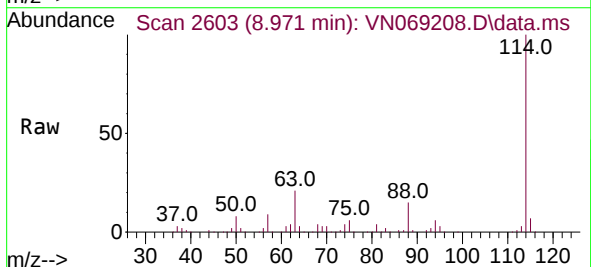
Instrument :  
 MSVOA\_N  
 ClientSampled :

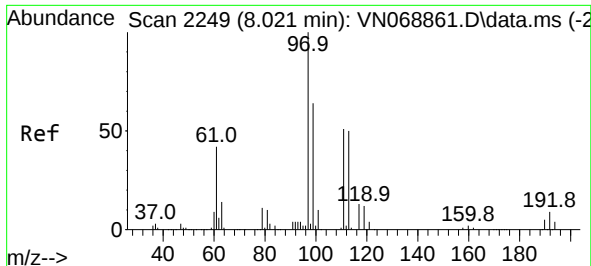
Tgt Ion: 65 Resp: 210868  
 Ion Ratio Lower Upper  
 65 100  
 67 51.2 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.971 min Scan# 2603  
 Delta R.T. 0.003 min  
 Lab File: VN069208.D  
 Acq: 27 Oct 2021 1:35

Tgt Ion: 114 Resp: 553523  
 Ion Ratio Lower Upper  
 114 100  
 63 20.8 0.0 42.6  
 88 15.4 0.0 32.0

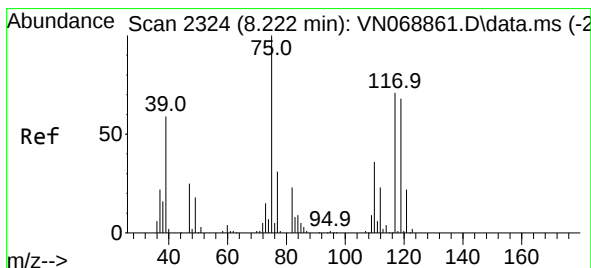
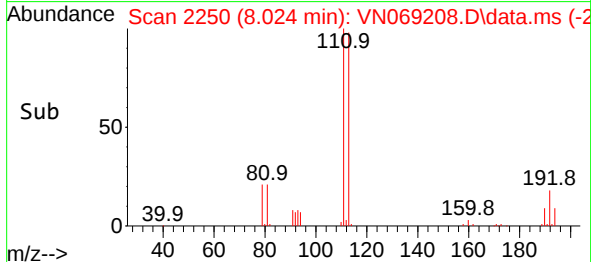
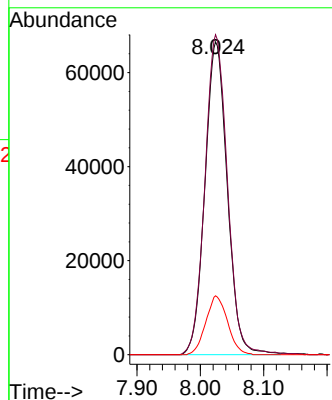
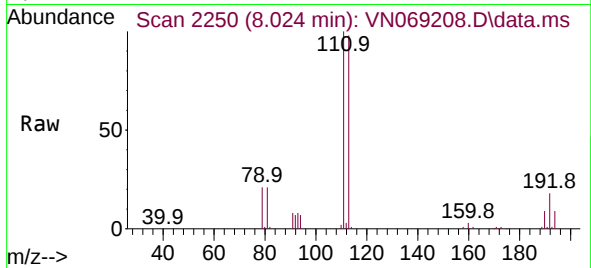




#35  
Dibromofluoromethane  
Concen: 50.616 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

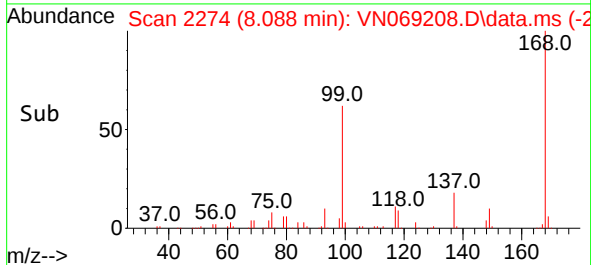
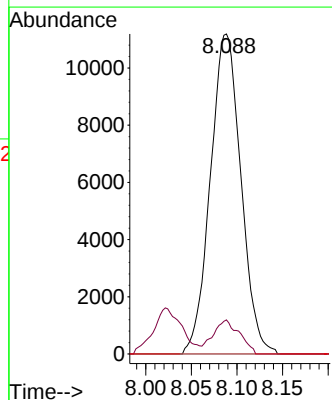
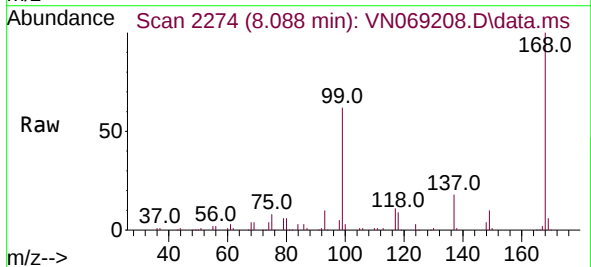
Instrument :  
MSVOA\_N  
ClientSampled :

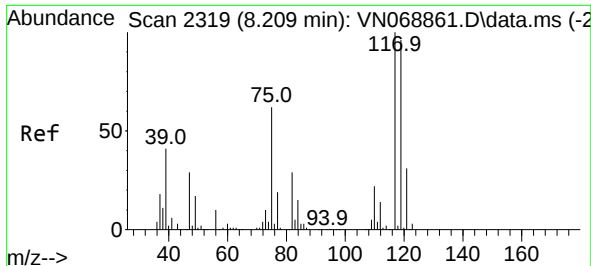
Tgt Ion:113 Resp: 163005  
Ion Ratio Lower Upper  
113 100  
111 103.0 83.2 124.8  
192 18.3 15.0 22.4



#36  
1,1-Dichloropropene  
Concen: 5.517 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

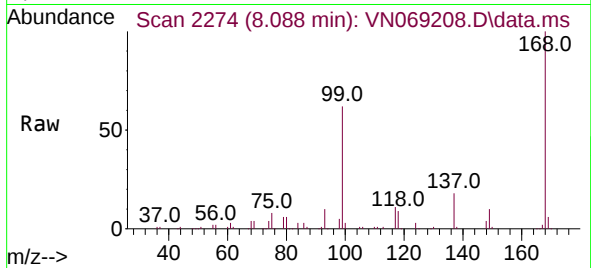
Tgt Ion: 75 Resp: 26086  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.9 53.8#  
77 0.0 24.7 37.1#



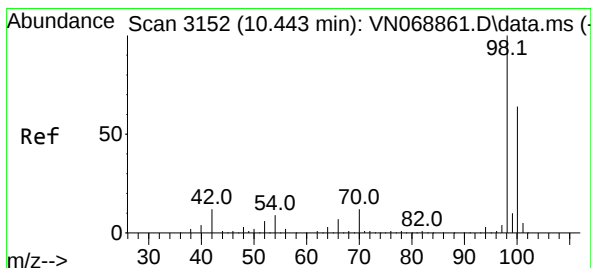
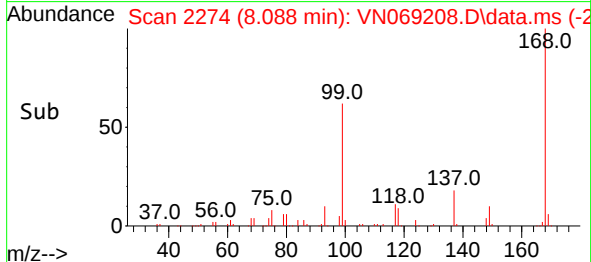
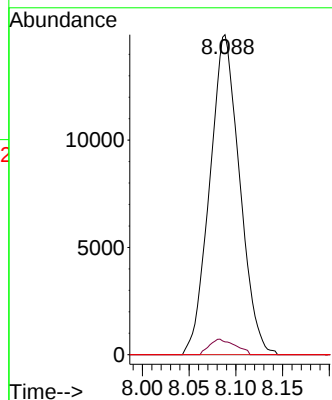


#38  
Carbon Tetrachloride  
Concen: 6.408 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.121 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Instrument :  
MSVOA\_N  
ClientSampled :

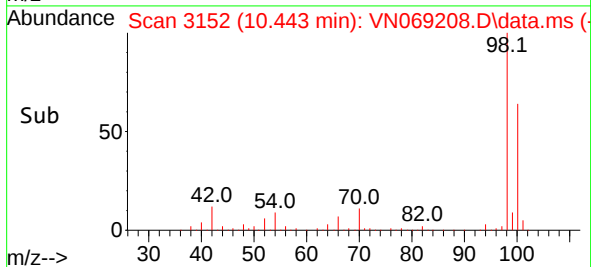
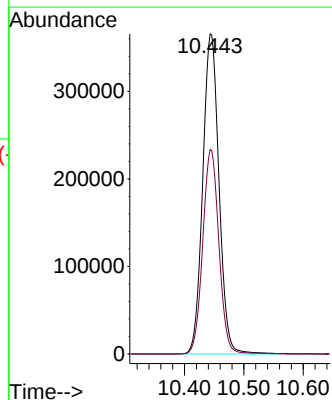
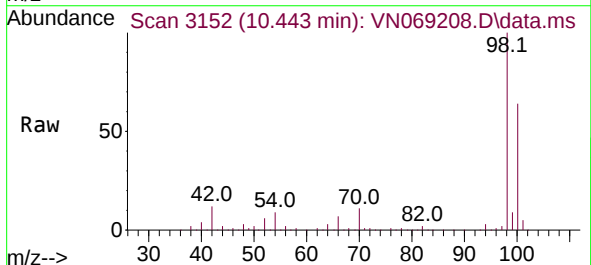


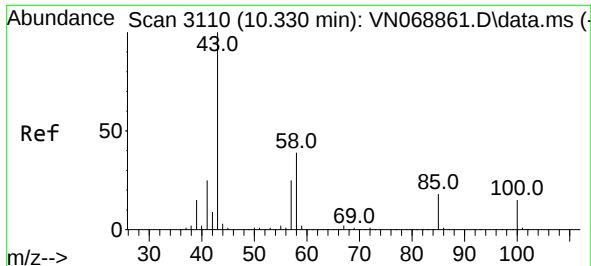
Tgt Ion:117 Resp: 33275  
Ion Ratio Lower Upper  
117 100  
119 4.0 76.9 115.3#  
121 0.0 24.6 37.0#



#50  
Toluene-d8  
Concen: 53.927 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 98 Resp: 694872  
Ion Ratio Lower Upper  
98 100  
100 63.4 51.5 77.3

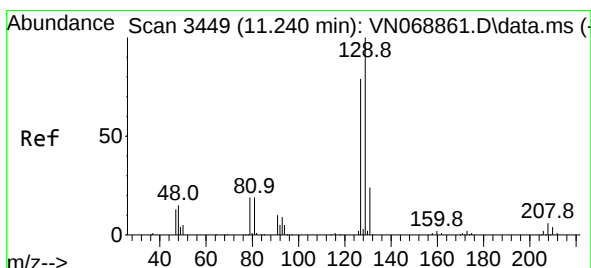
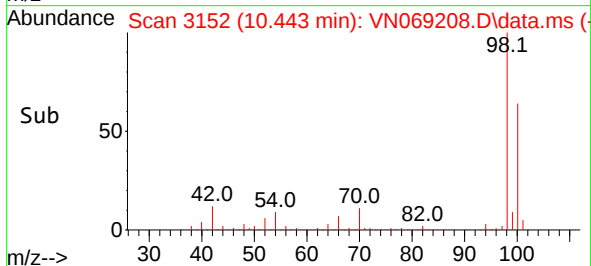
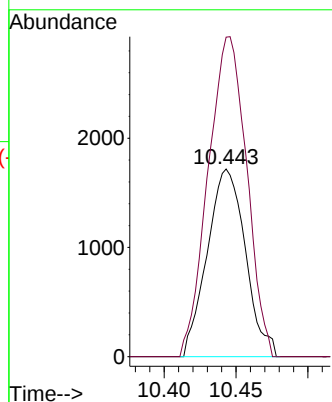
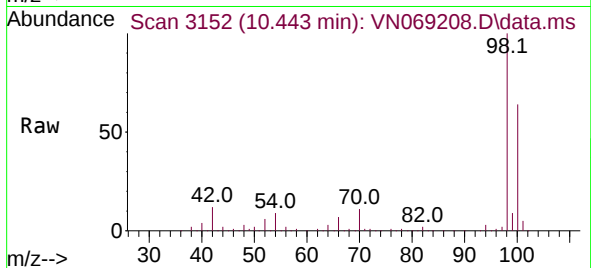




#51  
4-Methyl-2-Pentanone  
Concen: 0.635 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.113 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

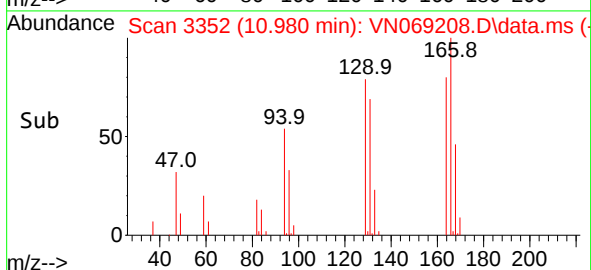
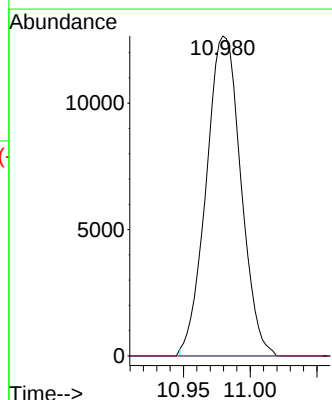
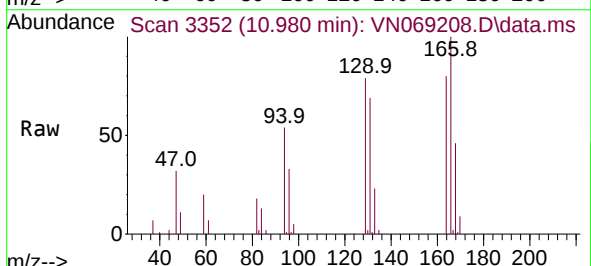
Instrument :  
MSVOA\_N  
ClientSampled :

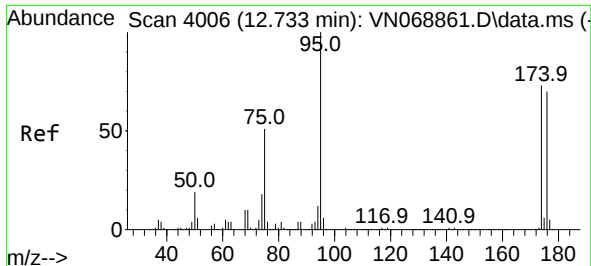
Tgt Ion: 43 Resp: 3174  
Ion Ratio Lower Upper  
43 100  
58 172.1 31.0 46.4#



#60  
Dibromochloromethane  
Concen: 5.534 ug/l  
RT: 10.980 min Scan# 3352  
Delta R.T. -0.260 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 129 Resp: 22811  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.1 117.2#

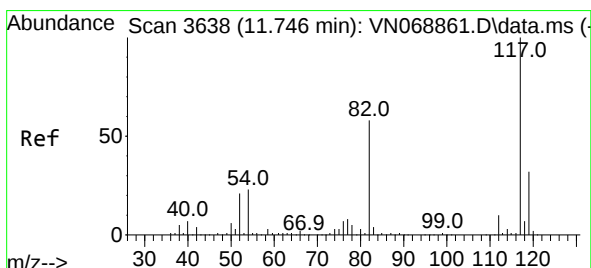
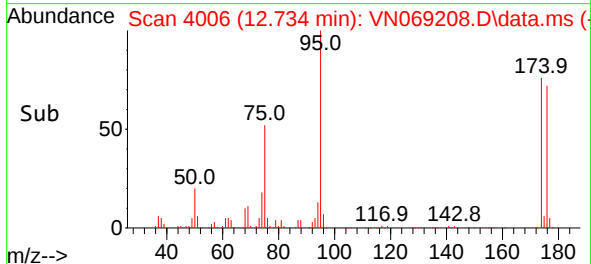
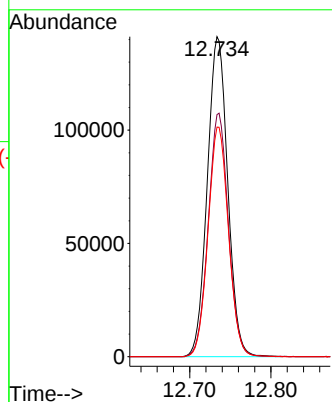
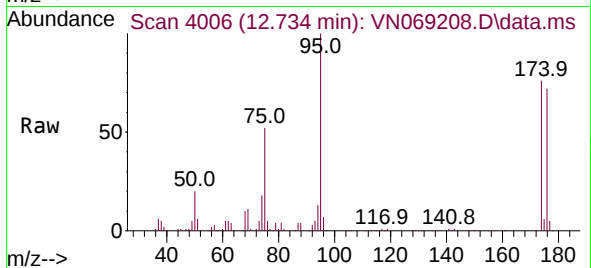




#62  
4-Bromofluorobenzene  
Concen: 50.722 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

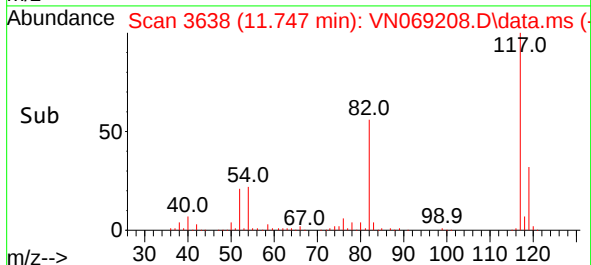
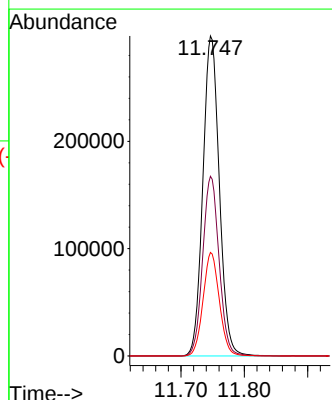
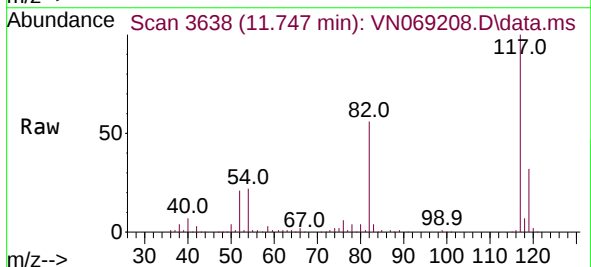
Instrument :  
MSVOA\_N  
ClientSampled :

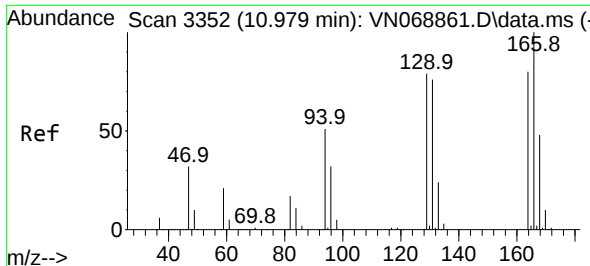
Tgt Ion: 95 Resp: 246587  
Ion Ratio Lower Upper  
95 100  
174 75.3 0.0 144.8  
176 71.9 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 117 Resp: 538105  
Ion Ratio Lower Upper  
117 100  
82 56.1 46.4 69.6  
119 32.4 26.0 39.0

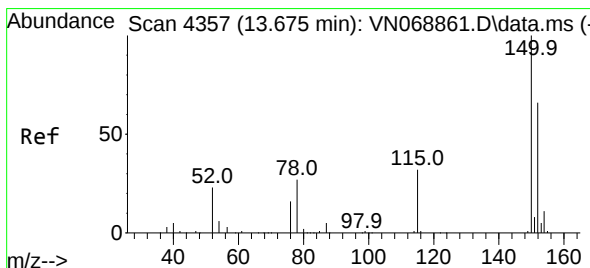
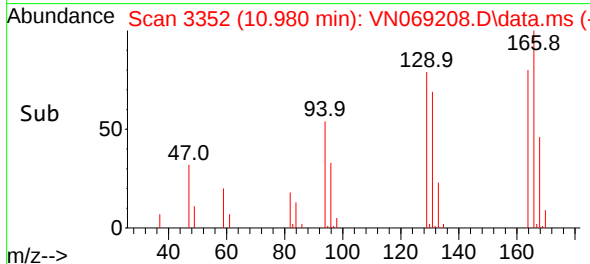
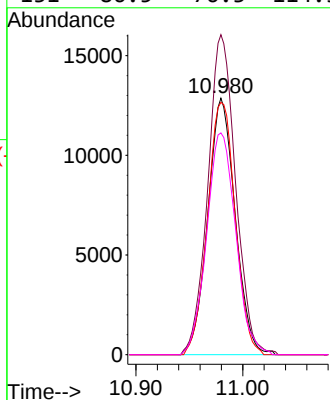
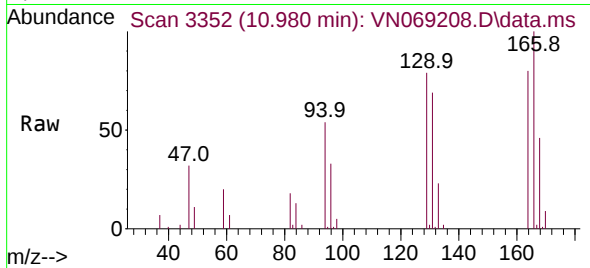




#64  
Tetrachloroethene  
Concen: 6.629 ug/l  
RT: 10.980 min Scan# 3352  
Delta R.T. 0.000 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

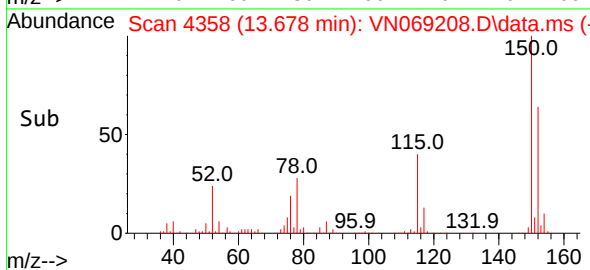
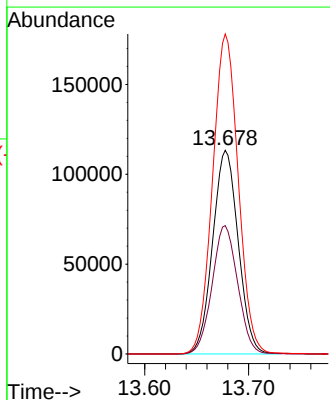
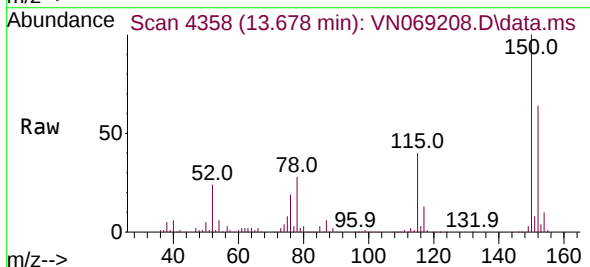
Instrument :  
MSVOA\_N  
ClientSampled :

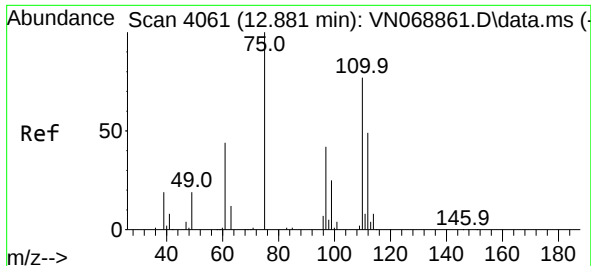
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:164 | Resp: | 22980      |
| Ion Ratio   | Lower | Upper      |
| 164         | 100   |            |
| 166         | 124.8 | 99.8 149.8 |
| 129         | 98.4  | 79.2 118.8 |
| 131         | 86.5  | 76.3 114.5 |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 193975    |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 115         | 63.0  | 31.4 94.3 |
| 150         | 157.6 | 0.0 351.0 |

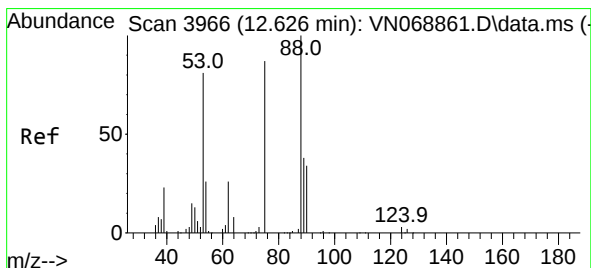
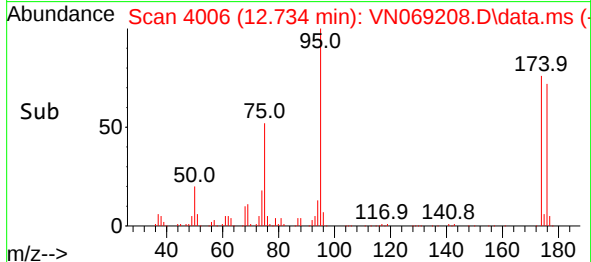
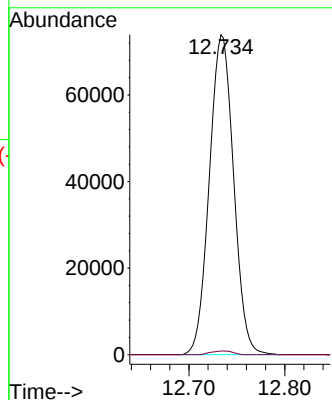
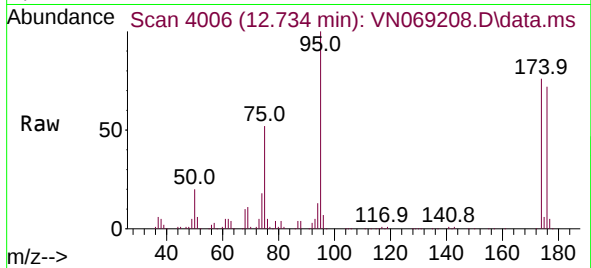




#76  
1,2,3-Trichloropropane  
Concen: 31.450 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.147 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

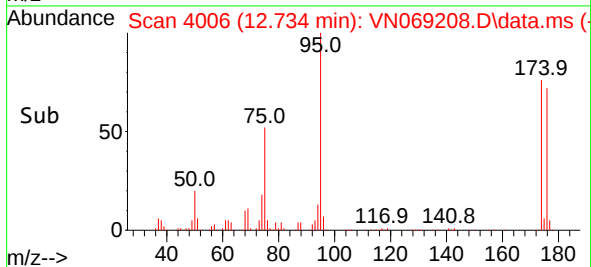
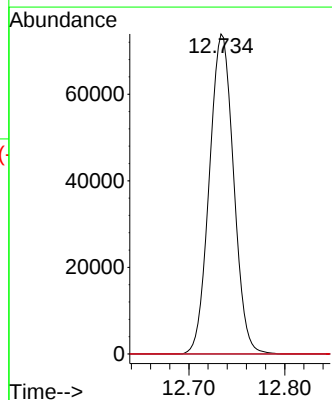
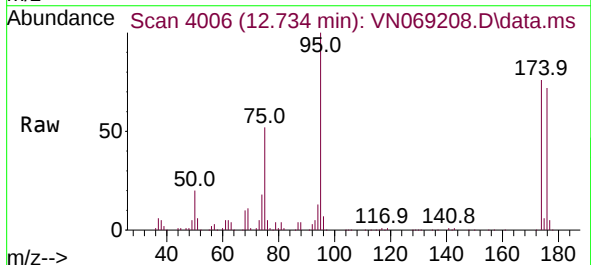
Instrument :  
MSVOA\_N  
ClientSampled :

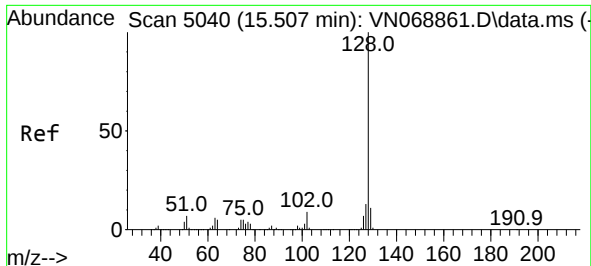
Tgt Ion: 75 Resp: 129800  
Ion Ratio Lower Upper  
75 100  
77 1.0 96.2 288.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.241 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion: 75 Resp: 129800  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#

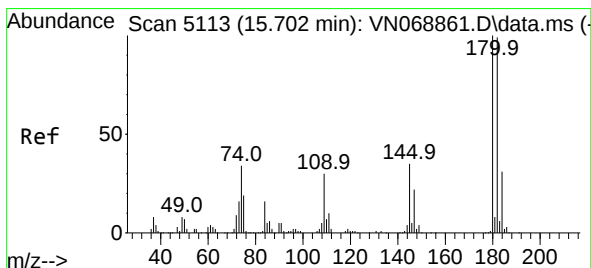
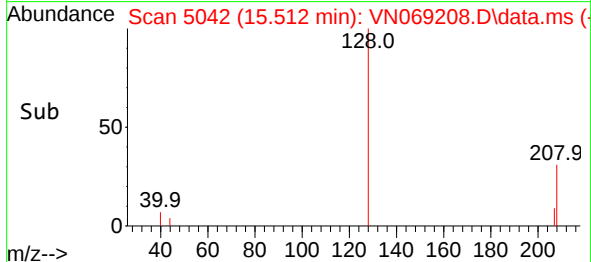
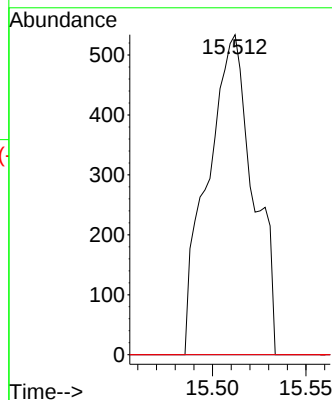
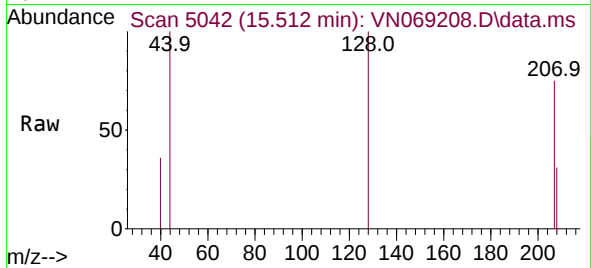




#95  
Naphthalene  
Concen: 3.905 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.005 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:128 Resp: 908  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.9 13.3#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.558 ug/l  
RT: 15.702 min Scan# 5113  
Delta R.T. 0.000 min  
Lab File: VN069208.D  
Acq: 27 Oct 2021 1:35

Tgt Ion:180 Resp: 144  
Ion Ratio Lower Upper  
180 100  
182 0.0 48.1 144.3#  
145 0.0 17.4 52.2#

