

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102721\  
 Data File : VN069228.D  
 Acq On : 27 Oct 2021 19:18  
 Operator : JC/MD  
 Sample : M4338-09  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 28 05:22:49 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

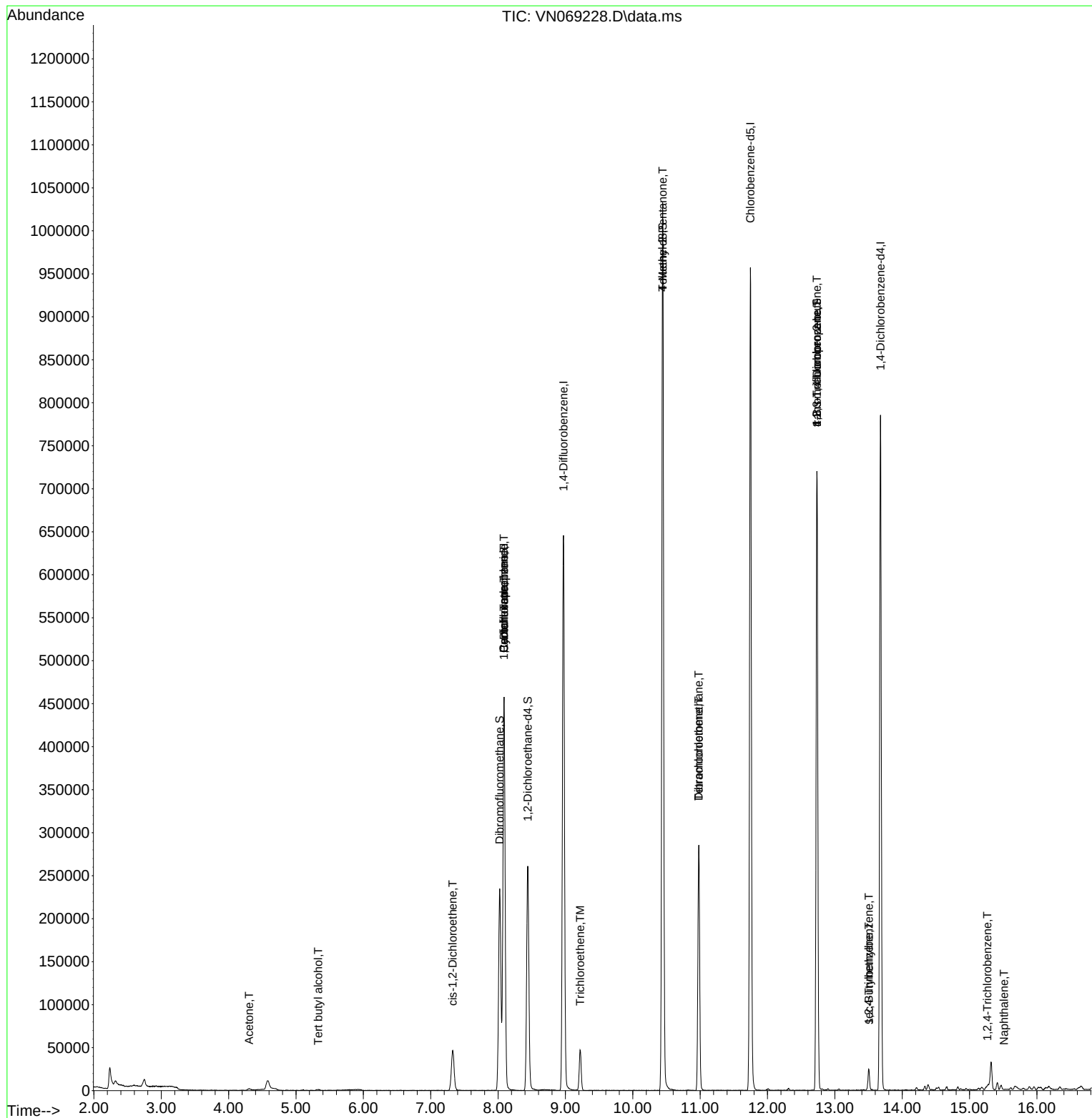
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 337463              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971          | 114  | 591487              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.746         | 117  | 564696              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677         | 152  | 208987              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 222913              | 50.100 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 100.200% |        |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 172756              | 50.200 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 100.400% |        |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 735225              | 53.396 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 106.800% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.733         | 95   | 258457              | 49.751 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 99.500%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 11) Tert butyl alcohol        | 5.331          | 59   | 732                 | 0.900  | ug/l # | 72       |
| 16) Acetone                   | 4.301          | 43   | 3523                | 2.122  | ug/l # | 87       |
| 27) cis-1,2-Dichloroethene    | 7.327          | 96   | 25319               | 5.946  | ug/l   | 91       |
| 31) Cyclohexane               | 8.088          | 56   | 7848                | 1.134  | ug/l # | 9        |
| 36) 1,1-Dichloropropene       | 8.086          | 75   | 27595               | 5.462  | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.088          | 117  | 36548               | 6.587  | ug/l # | 16       |
| 44) Trichloroethene           | 9.217          | 130  | 17052               | 4.429  | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.443         | 43   | 3225                | 0.604  | ug/l # | 1        |
| 60) Dibromochloromethane      | 10.979         | 129  | 65845               | 14.948 | ug/l # | 10       |
| 64) Tetrachloroethene         | 10.979         | 164  | 63743               | 17.523 | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.733         | 75   | 136494              | 30.696 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733         | 75   | 136494              | 73.438 | ug/l # | 12       |
| 84) 1,2,4-Trimethylbenzene    | 13.503         | 105  | 17523               | 1.255  | ug/l # | 32       |
| 85) sec-Butylbenzene          | 13.503         | 105  | 17523               | 1.003  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.265         | 180  | 411                 | 2.712  | ug/l # | 1        |
| 95) Naphthalene               | 15.512         | 128  | 217                 | 3.832  | ug/l # | 69       |
| -----                         |                |      |                     |        |        |          |

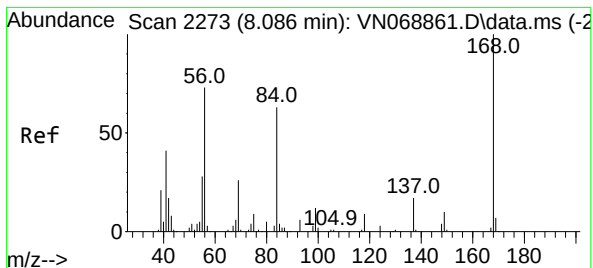
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN069228.D

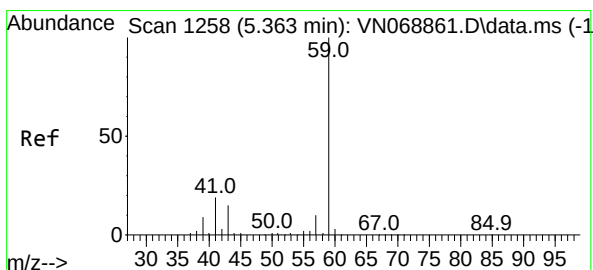
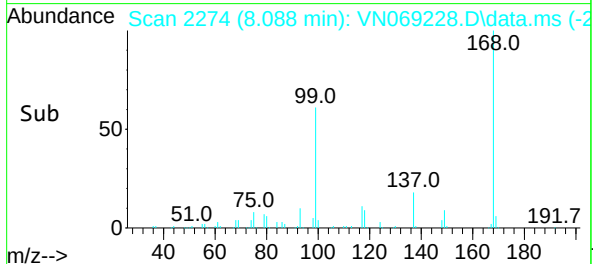
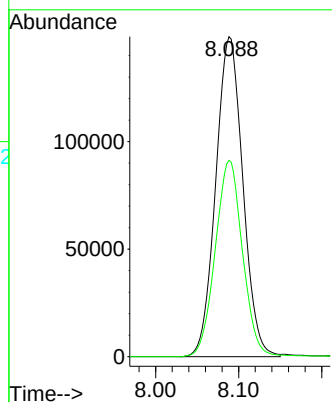
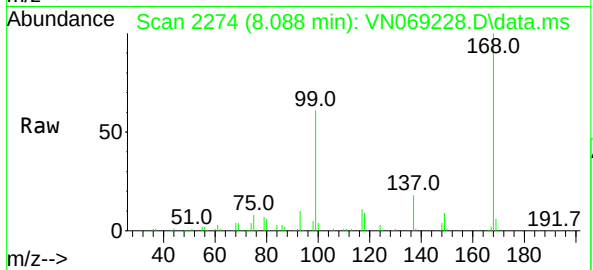
Acq: 27 Oct 2021 19:18

Tgt Ion:168 Resp: 337463

Ion Ratio Lower Upper

168 100

99 61.3 48.9 73.3



#11

Tert butyl alcohol

Concen: 0.900 ug/l

RT: 5.331 min Scan# 1246

Delta R.T. -0.032 min

Lab File: VN069228.D

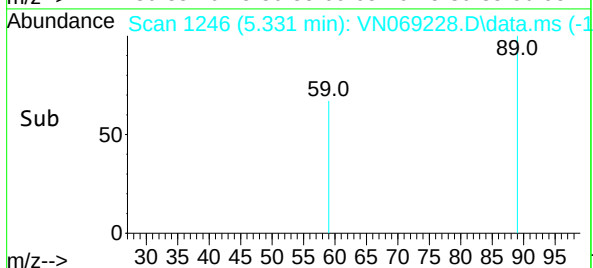
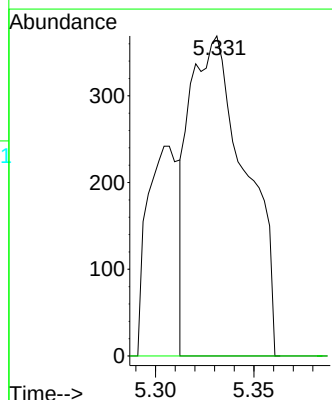
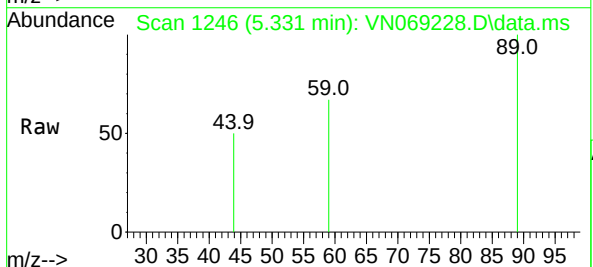
Acq: 27 Oct 2021 19:18

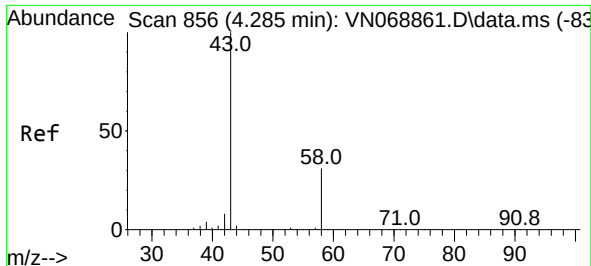
Tgt Ion: 59 Resp: 732

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#

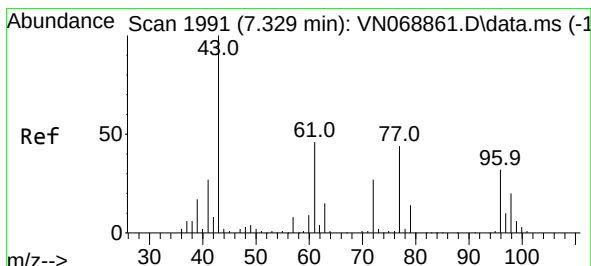
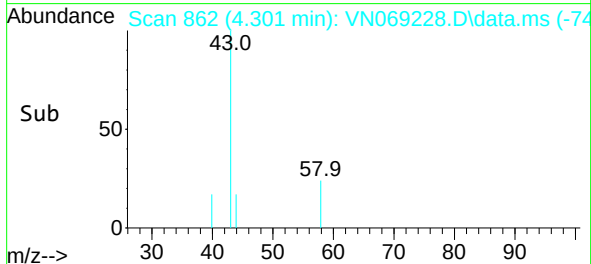
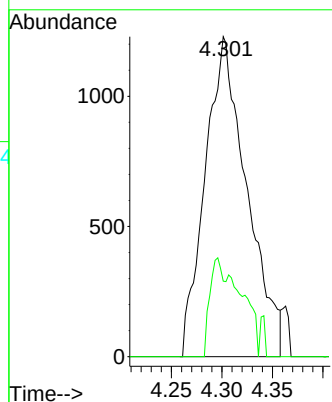
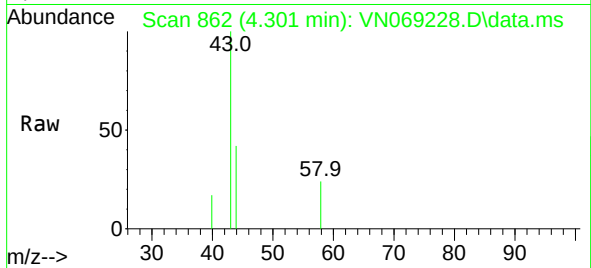




#16  
Acetone  
Concen: 2.122 ug/l  
RT: 4.301 min Scan# 862  
Delta R.T. 0.016 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

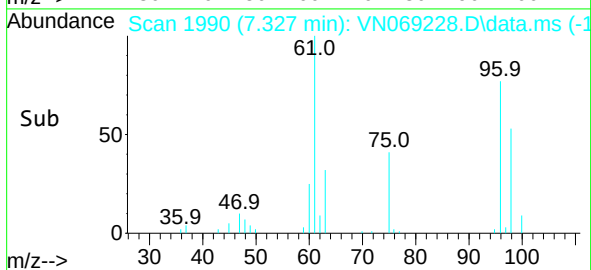
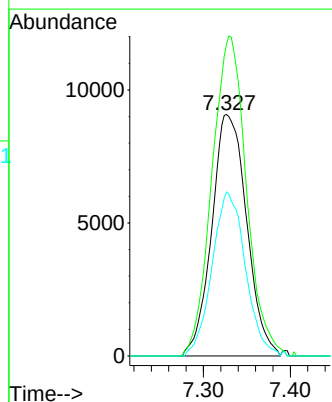
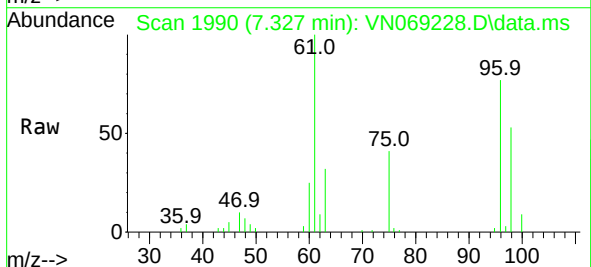
Instrument :  
MSVOA\_N  
ClientSampled :

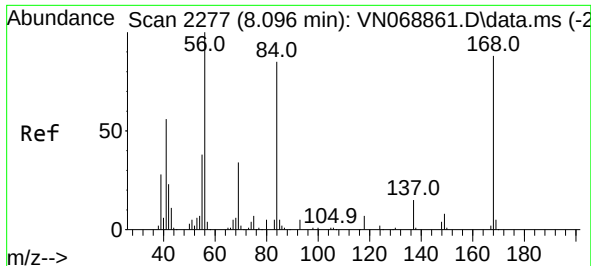
Tgt Ion: 43 Resp: 3523  
Ion Ratio Lower Upper  
43 100  
58 23.6 24.5 36.7#



#27  
cis-1,2-Dichloroethene  
Concen: 5.946 ug/l  
RT: 7.327 min Scan# 1990  
Delta R.T. -0.003 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion: 96 Resp: 25319  
Ion Ratio Lower Upper  
96 100  
61 130.5 0.0 290.6  
98 64.6 0.0 127.2

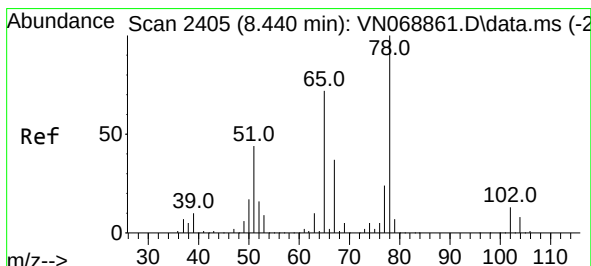
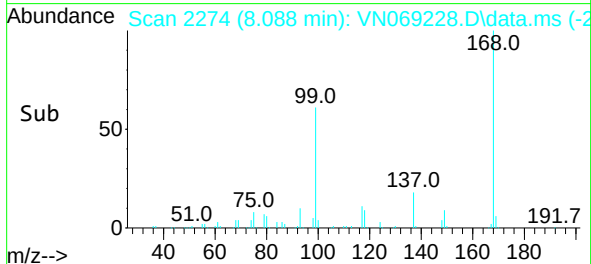
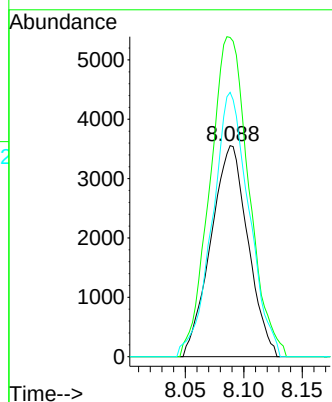
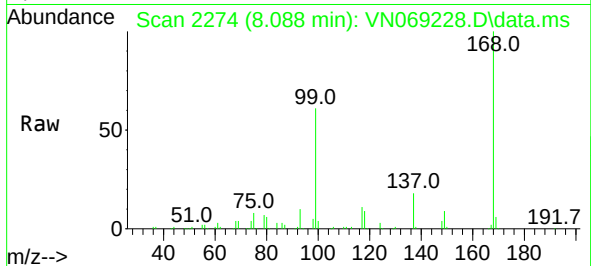




#31  
Cyclohexane  
Concen: 1.134 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.008 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

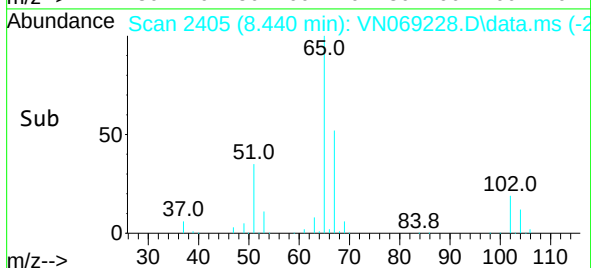
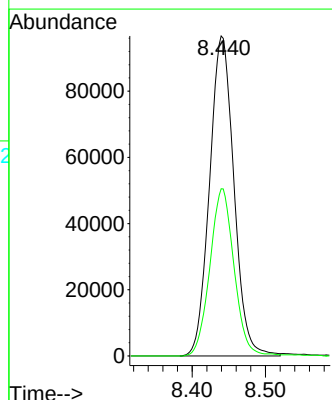
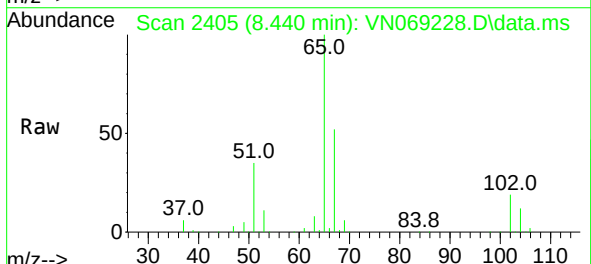
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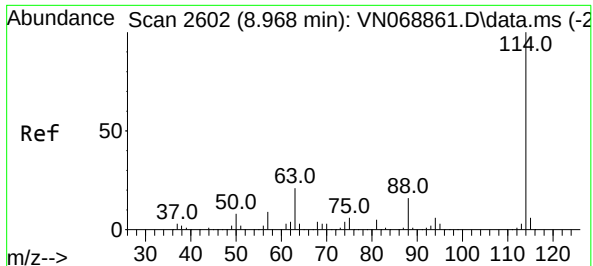
Tgt Ion: 56 Resp: 7848  
Ion Ratio Lower Upper  
56 100  
69 151.2 26.9 40.3#  
84 125.2 67.6 101.4#



#33  
1,2-Dichloroethane-d4  
Concen: 50.100 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion: 65 Resp: 222913  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 103.8

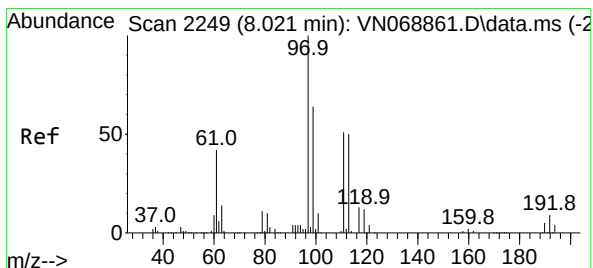
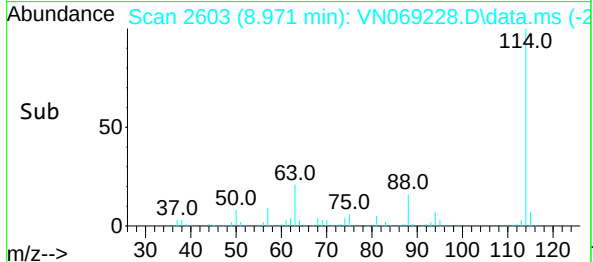
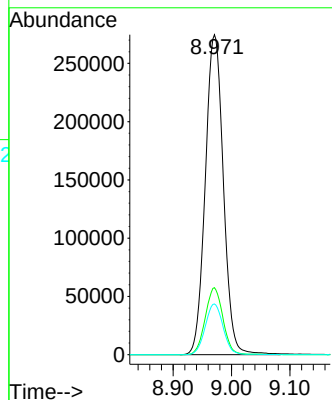
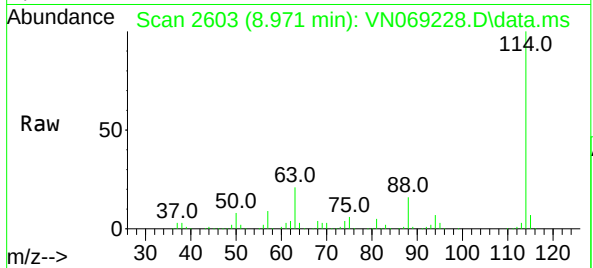




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

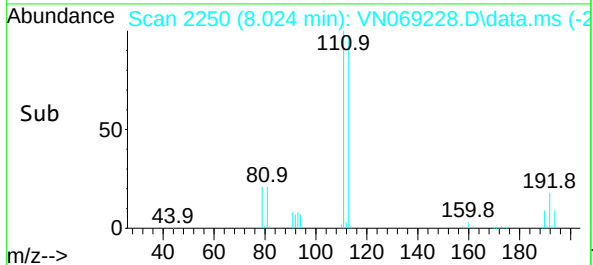
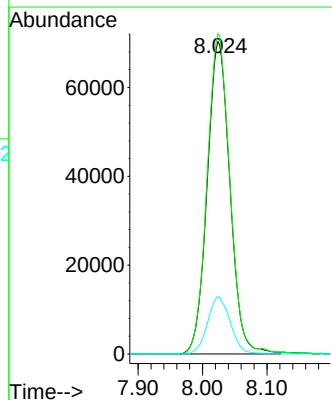
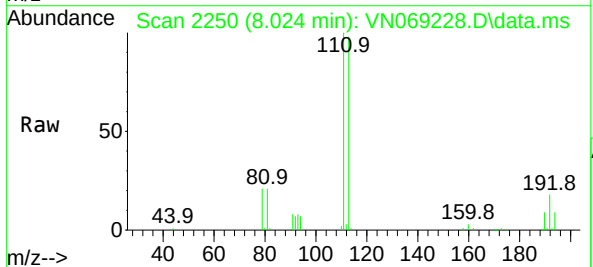
Instrument :  
MSVOA\_N  
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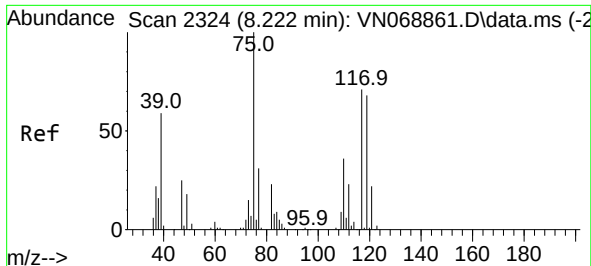
Tgt Ion:114 Resp: 591487  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 42.6  
88 15.9 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 50.200 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion:113 Resp: 172756  
Ion Ratio Lower Upper  
113 100  
111 101.6 83.2 124.8  
192 18.3 15.0 22.4

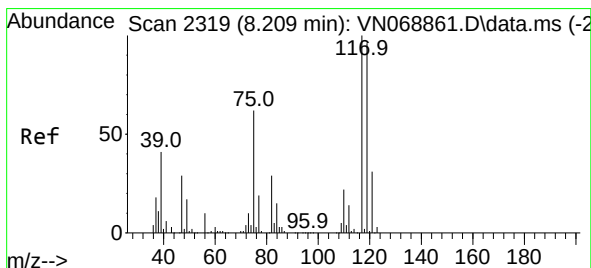
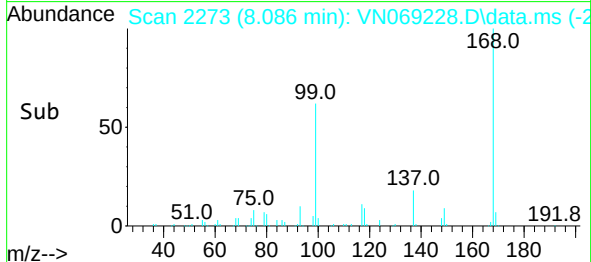
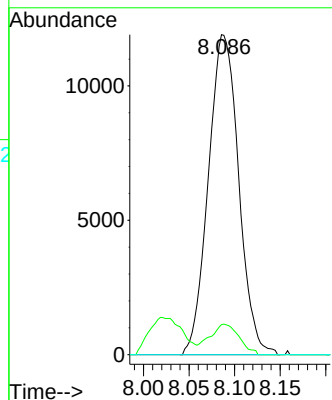
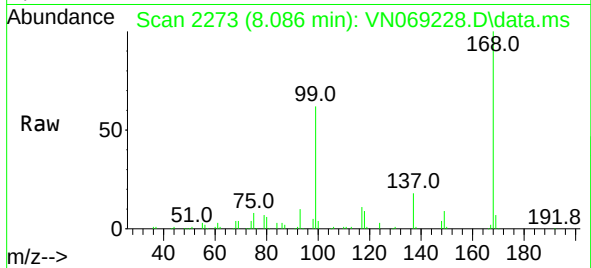




#36  
1,1-Dichloropropene  
Concen: 5.462 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

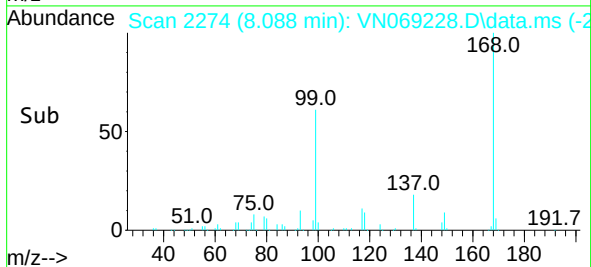
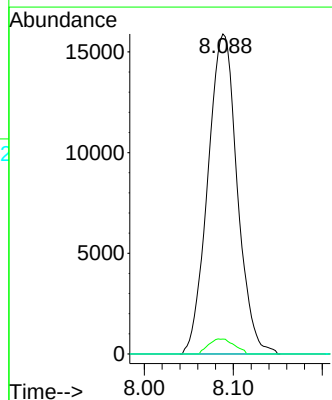
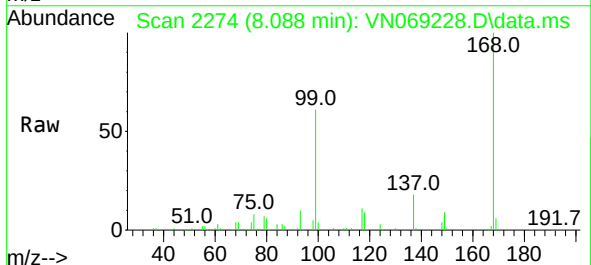
Instrument :  
MSVOA\_N  
ClientSampled :

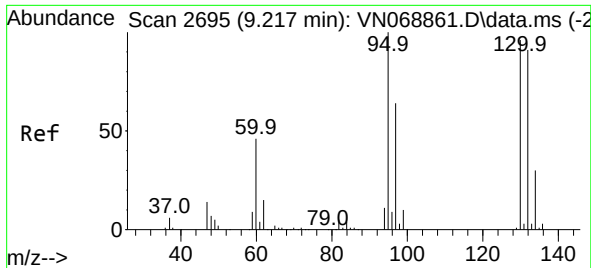
Tgt Ion: 75 Resp: 27595  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.9 53.8#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.587 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.121 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion: 117 Resp: 36548  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.9 115.3#  
121 0.0 24.6 37.0#

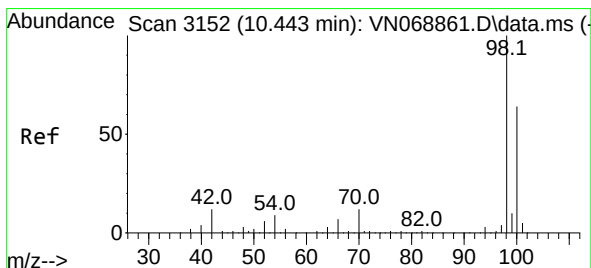
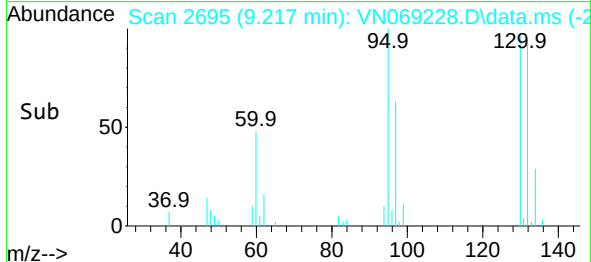
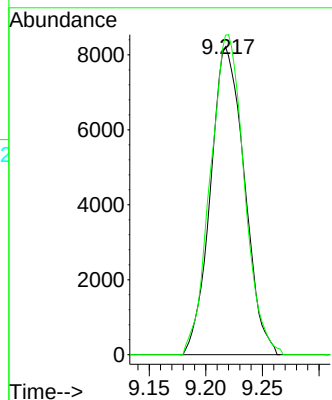
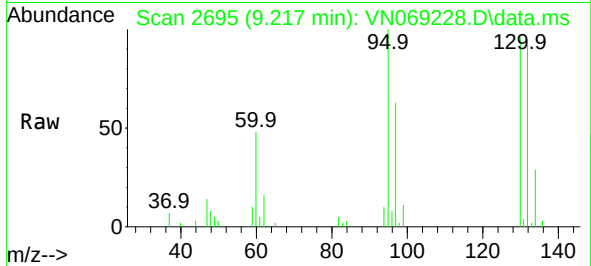




#44  
Trichloroethene  
Concen: 4.429 ug/l  
RT: 9.217 min Scan# 2695  
Delta R.T. -0.000 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

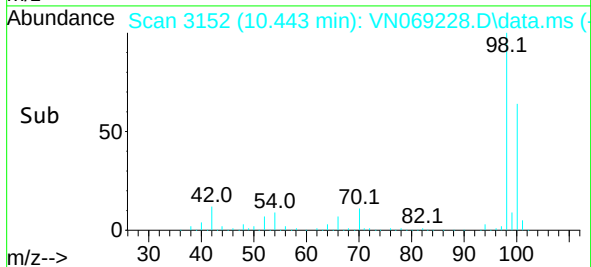
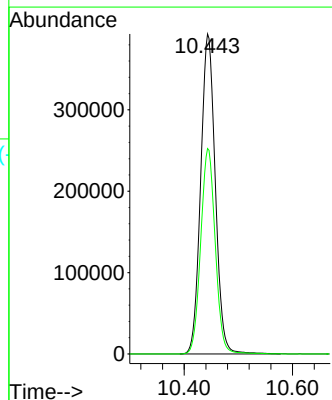
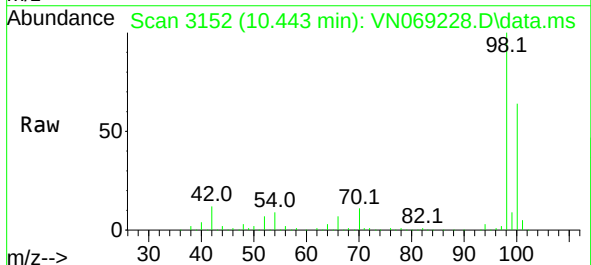
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:130 Resp: 17052  
Ion Ratio Lower Upper  
130 100  
95 103.8 0.0 208.0

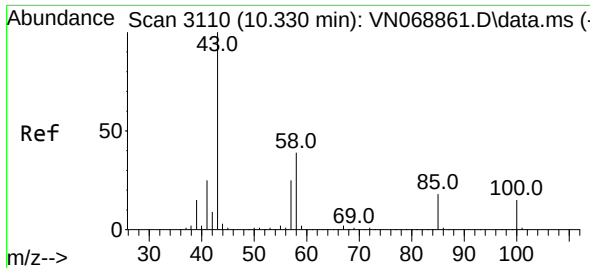


#50  
Toluene-d8  
Concen: 53.396 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion: 98 Resp: 735225  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.5 77.3



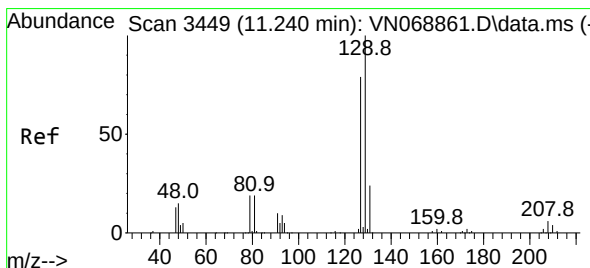
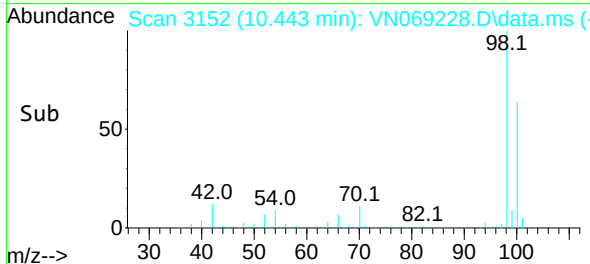
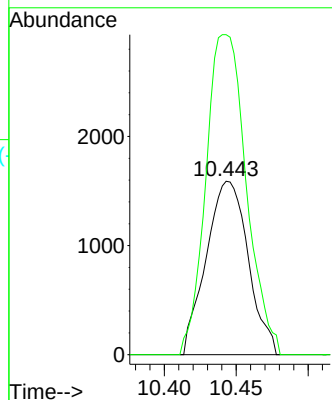
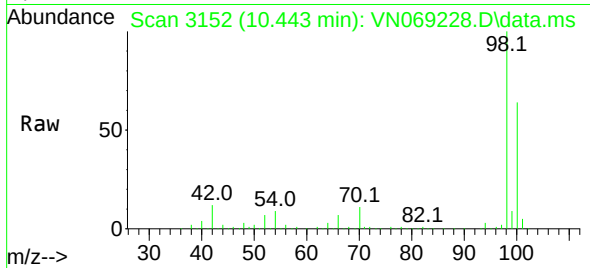




#51  
4-Methyl-2-Pentanone  
Concen: 0.604 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.113 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

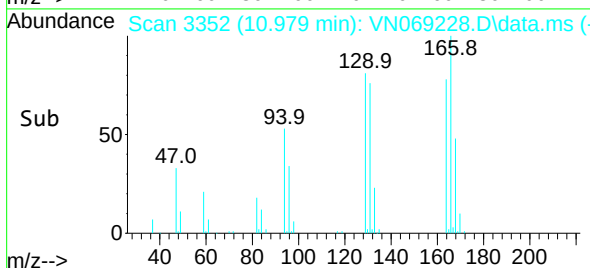
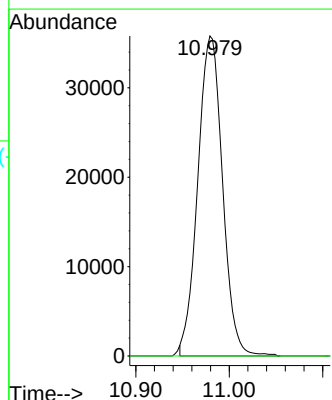
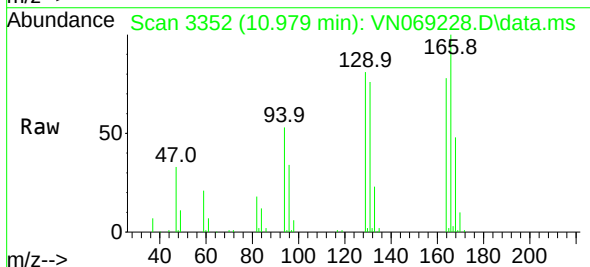
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MSVOA\_N  
ClientSampled :

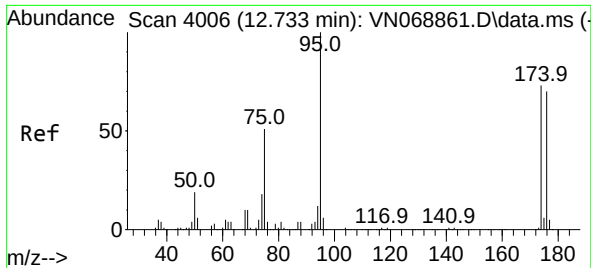
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Ion Ratio Lower Upper  
43 100  
58 177.7 31.0 46.4#



#60  
Dibromochloromethane  
Concen: 14.948 ug/l  
RT: 10.979 min Scan# 3352  
Delta R.T. -0.260 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion: 129 Resp: 65845  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.1 117.2#

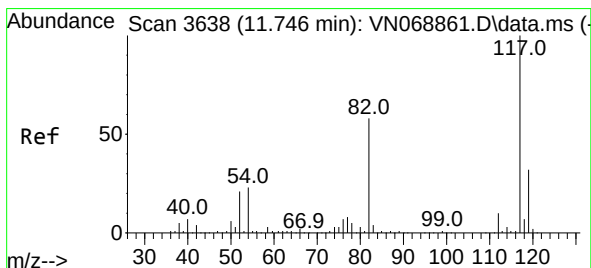
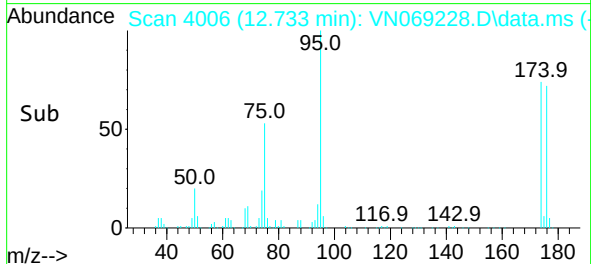
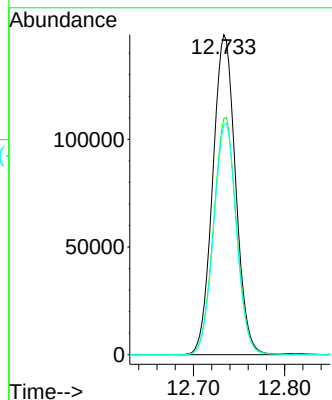
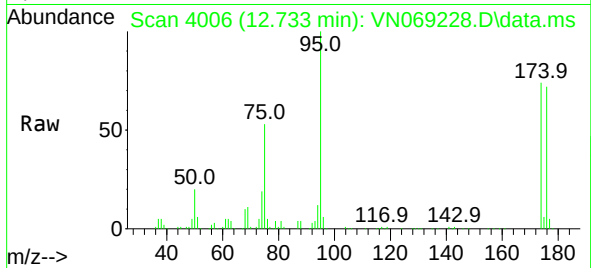




#62  
4-Bromofluorobenzene  
Concen: 49.751 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

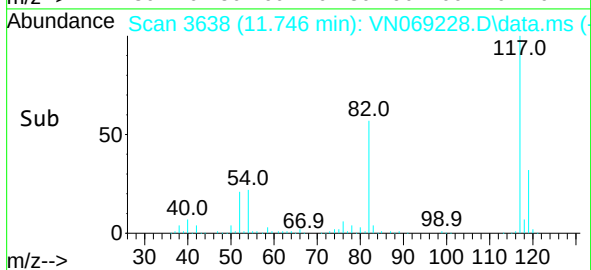
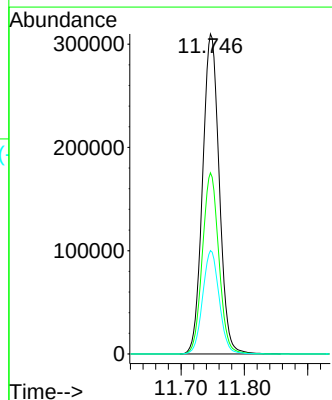
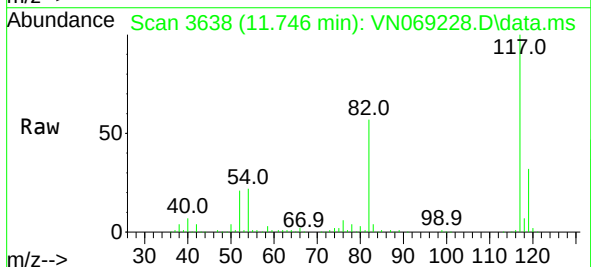
Instrument :  
MSVOA\_N  
ClientSampleId :

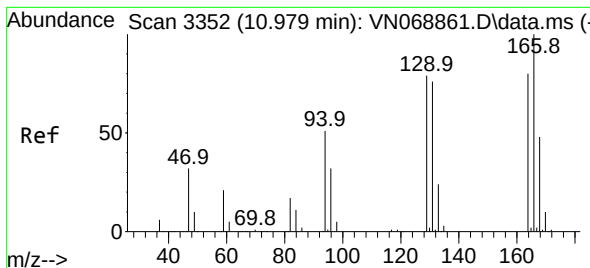
Tgt Ion: 95 Resp: 258457  
Ion Ratio Lower Upper  
95 100  
174 74.4 0.0 144.8  
176 72.4 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion: 117 Resp: 564696  
Ion Ratio Lower Upper  
117 100  
82 56.6 46.4 69.6  
119 32.3 26.0 39.0





#64

Tetrachloroethene

Concen: 17.523 ug/l

RT: 10.979 min Scan# 3352

Delta R.T. -0.000 min

Lab File: VN069228.D

Acq: 27 Oct 2021 19:18

Tgt Ion:164 Resp: 63743

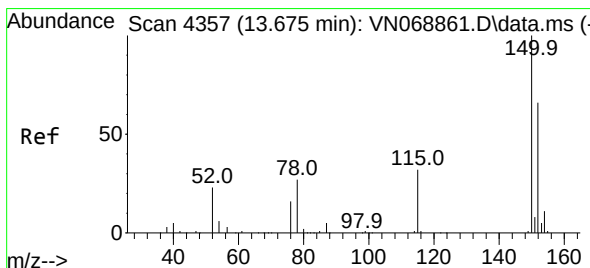
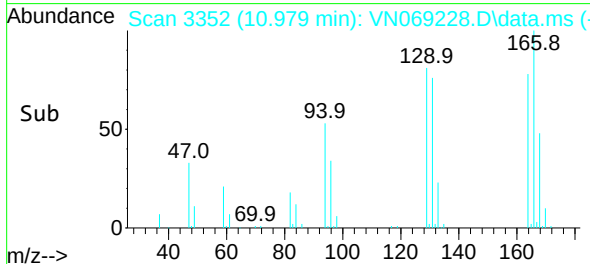
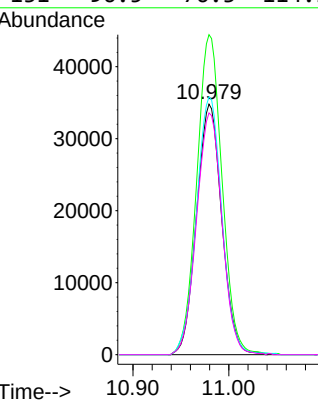
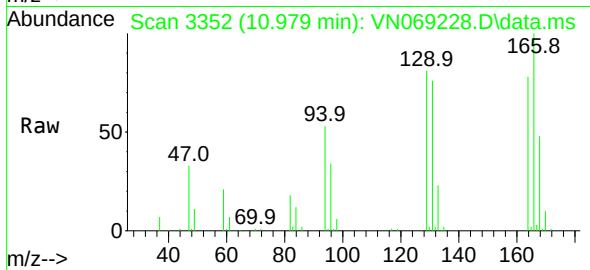
Ion Ratio Lower Upper

164 100

166 127.7 99.8 149.8

129 102.9 79.2 118.8

131 96.5 76.3 114.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 4358

Delta R.T. 0.003 min

Lab File: VN069228.D

Acq: 27 Oct 2021 19:18

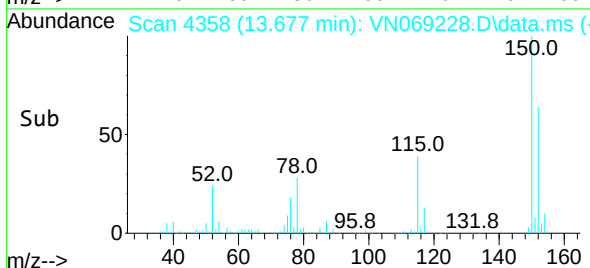
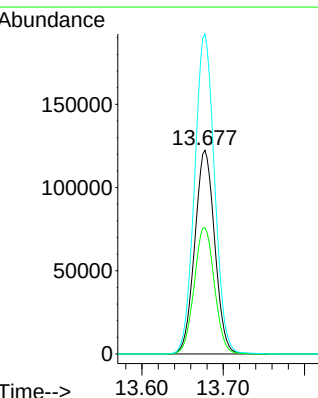
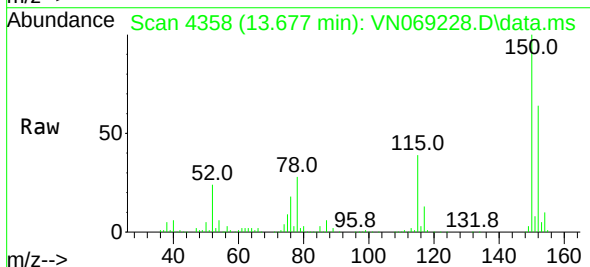
Tgt Ion:152 Resp: 208987

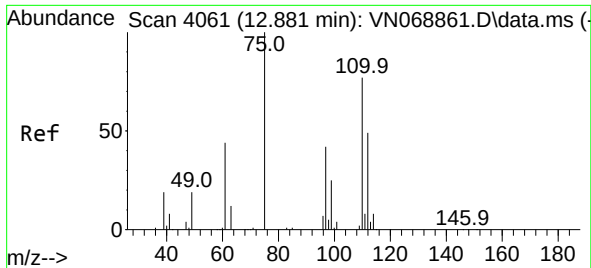
Ion Ratio Lower Upper

152 100

115 62.9 31.4 94.3

150 157.3 0.0 351.0

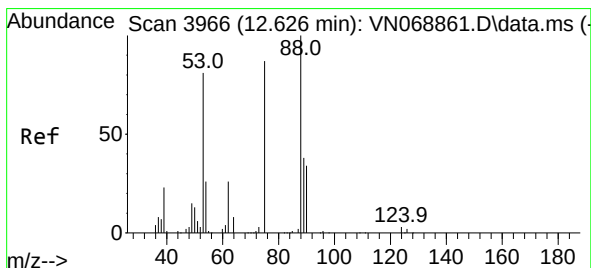
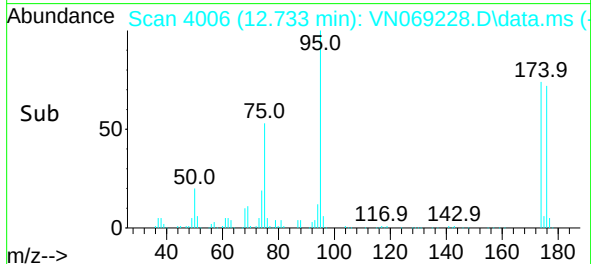
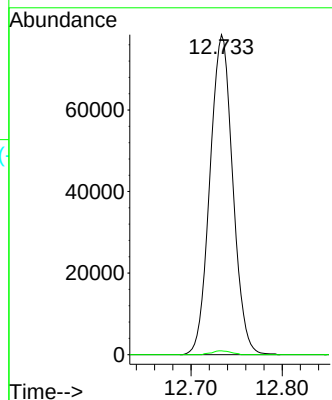
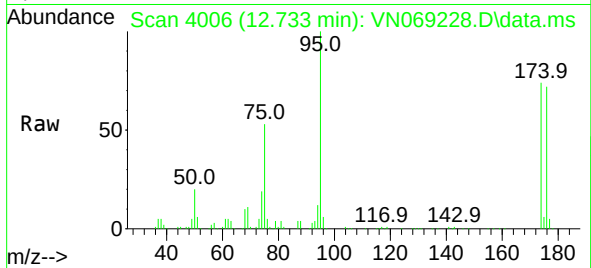




#76  
1,2,3-Trichloropropane  
Concen: 30.696 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.148 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

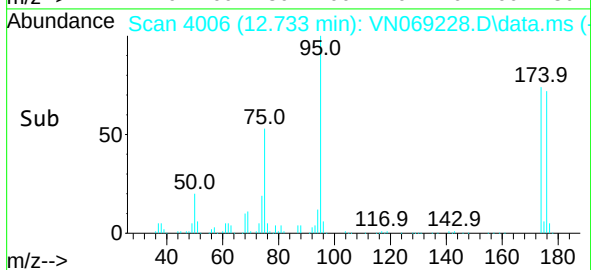
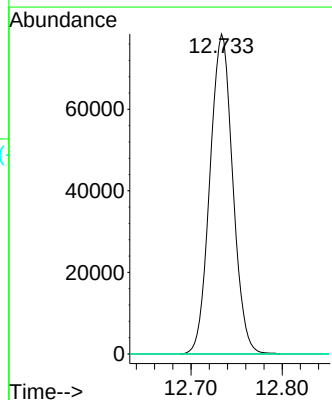
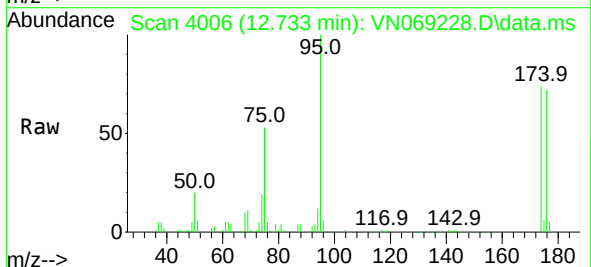
Instrument :  
MSVOA\_N  
ClientSampled :

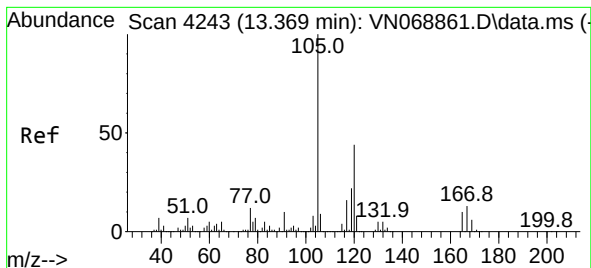
Tgt Ion: 75 Resp: 136494  
Ion Ratio Lower Upper  
75 100  
77 1.0 96.2 288.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.438 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion: 75 Resp: 136494  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#





#84

1,2,4-Trimethylbenzene

Concen: 1.255 ug/l

RT: 13.503 min Scan# 4293

Delta R.T. 0.134 min

Lab File: VN069228.D

Acq: 27 Oct 2021 19:18

Tgt Ion:105 Resp: 17523

Ion Ratio Lower Upper

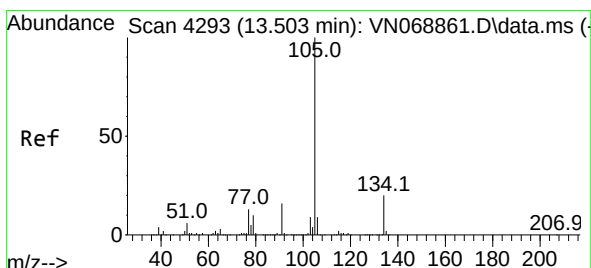
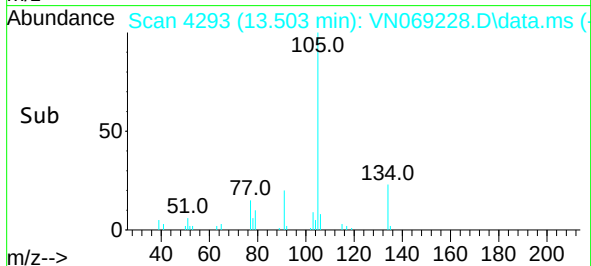
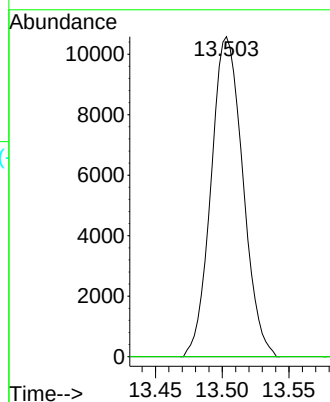
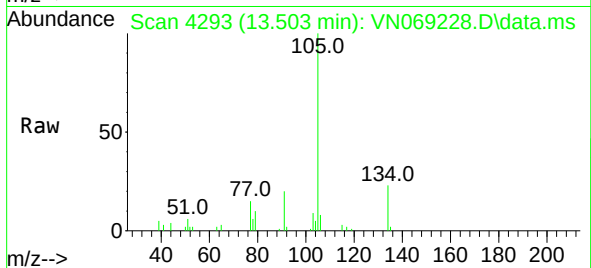
105 100

120 0.0 21.9 65.5#

Instrument :

MSVOA\_N

ClientSampled :



#85

sec-Butylbenzene

Concen: 1.003 ug/l

RT: 13.503 min Scan# 4293

Delta R.T. -0.000 min

Lab File: VN069228.D

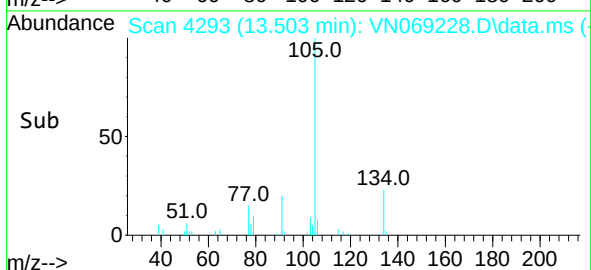
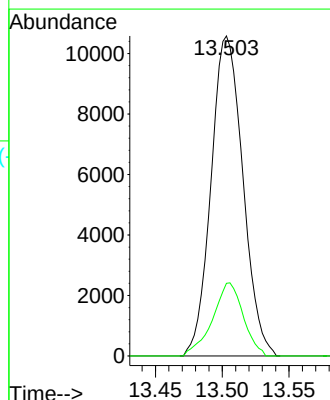
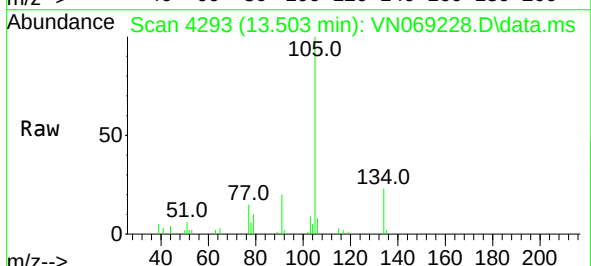
Acq: 27 Oct 2021 19:18

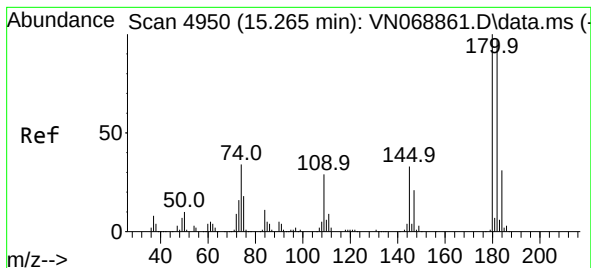
Tgt Ion:105 Resp: 17523

Ion Ratio Lower Upper

105 100

134 22.1 9.8 29.4

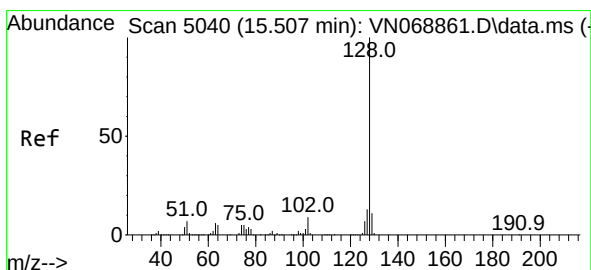
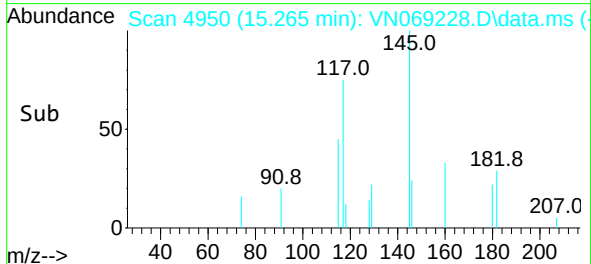
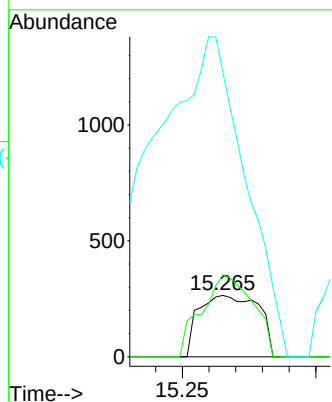
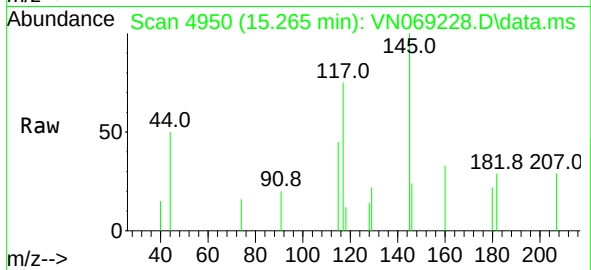




#93  
1,2,4-Trichlorobenzene  
Concen: 2.712 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:180 Resp: 411  
Ion Ratio Lower Upper  
180 100  
182 114.8 47.9 143.7  
145 845.7 16.4 49.2#



#95  
Naphthalene  
Concen: 3.832 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.005 min  
Lab File: VN069228.D  
Acq: 27 Oct 2021 19:18

Tgt Ion:128 Resp: 217  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.9 13.3#

