

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD060922\  
 Data File : VD073517.D  
 Acq On : 09 Jun 2022 19:46  
 Operator : VA/SY  
 Sample : VIBLK  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jun 10 06:14:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 10 05:32:19 2022  
 Response via : Initial Calibration

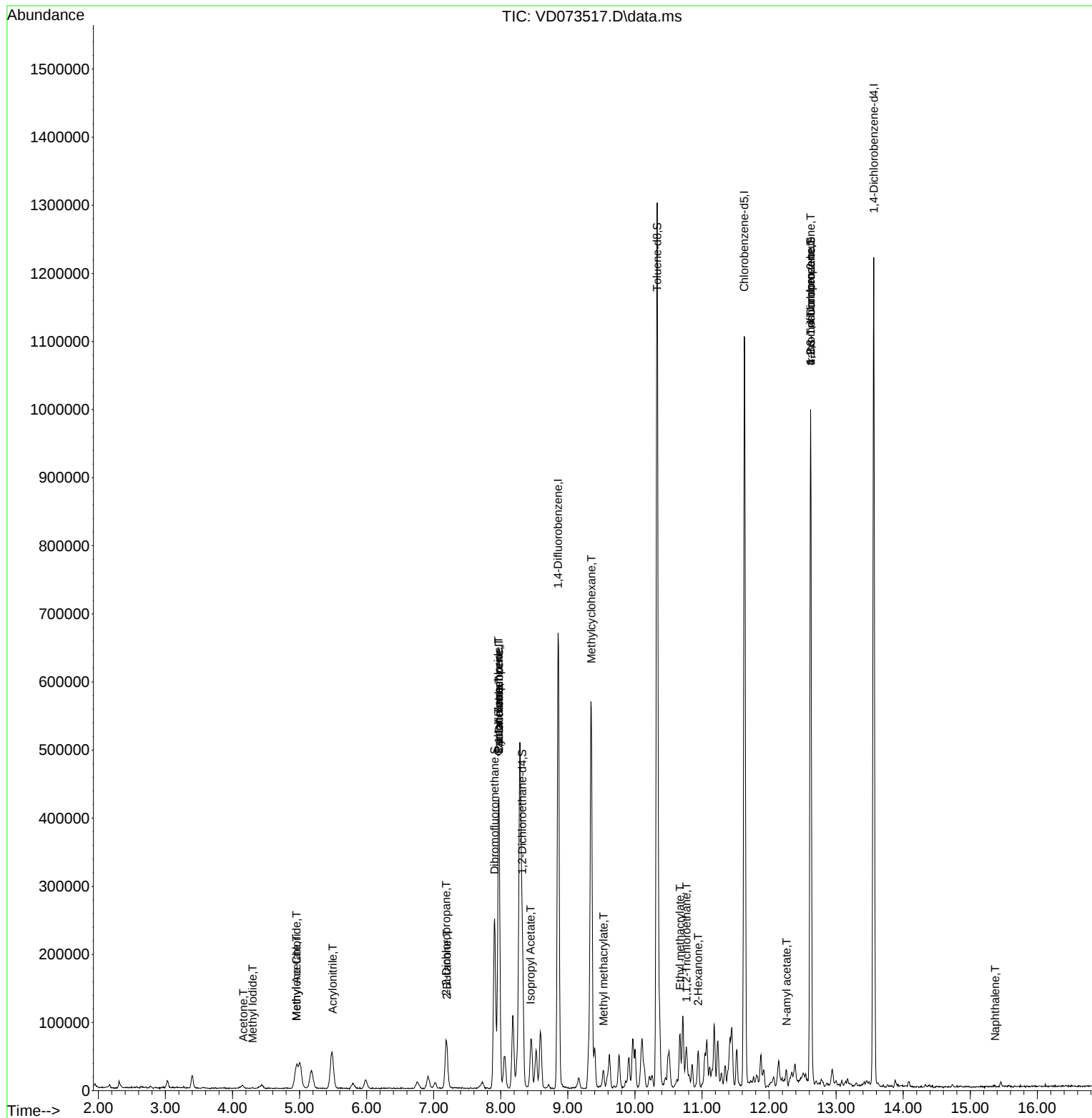
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 303975   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855  | 114   | 582609   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 670690   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 331652   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.320  | 65    | 152213   | 46.662    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 93.320%  |
| 35) Dibromofluoromethane      | 7.908  | 113   | 181174   | 48.359    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 96.720%  |
| 50) Toluene-d8                | 10.332 | 98    | 768202   | 54.234    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 108.460% |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 328930   | 63.967    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 127.940% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 10) Methyl Iodide             | 4.303  | 142   | 1335     | 4.499     | ug/l # | 48       |
| 11) Tert butyl alcohol        | 5.173  | 59    | 23946    | Below Cal | #      | 74       |
| 15) Acrylonitrile             | 5.497  | 53    | 2975     | 4.238     | ug/l # | 34       |
| 16) Acetone                   | 4.162  | 43    | 5306     | 9.238     | ug/l # | 86       |
| 18) Methyl Acetate            | 4.956  | 43    | 11255    | 8.130     | ug/l # | 55       |
| 20) Methylene Chloride        | 4.956  | 84    | 20100    | 2.480     | ug/l # | 83       |
| 25) 2-Butanone                | 7.197  | 43    | 5181     | 6.130     | ug/l # | 80       |
| 26) 2,2-Dichloropropane       | 7.185  | 77    | 5735     | 1.047     | ug/l # | 54       |
| 31) Cyclohexane               | 7.973  | 56    | 18486    | 3.364     | ug/l # | 33       |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 23697    | 4.211     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.967  | 117   | 31129    | 5.288     | ug/l # | 17       |
| 39) Methylcyclohexane         | 9.349  | 83    | 233529   | 35.614    | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.444  | 43    | 12244    | 2.800     | ug/l # | 54       |
| 48) Methyl methacrylate       | 9.532  | 41    | 5293     | 2.443     | ug/l # | 23       |
| 55) 1,1,2-Trichloroethane     | 10.767 | 97    | 20269    | 6.222     | ug/l # | 20       |
| 56) Ethyl methacrylate        | 10.673 | 69    | 8359     | 2.240     | ug/l # | 33       |
| 59) 2-Hexanone                | 10.944 | 43    | 20039    | 13.224    | ug/l # | 32       |
| 74) N-amyl acetate            | 12.261 | 43    | 5478     | 1.071     | ug/l # | 77       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 161281   | 50.058    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 161281   | 117.495   | ug/l # | 7        |
| 95) Naphthalene               | 15.373 | 128   | 304      | 4.227     | ug/l # | 70       |

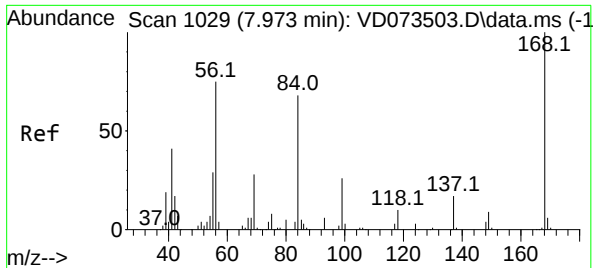
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD060922\  
Data File : VD073517.D  
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Sample : VIBLK  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

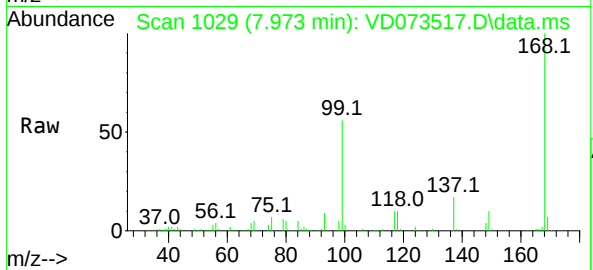
Quant Time: Jun 10 06:14:56 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 10 05:32:19 2022  
Response via : Initial Calibration



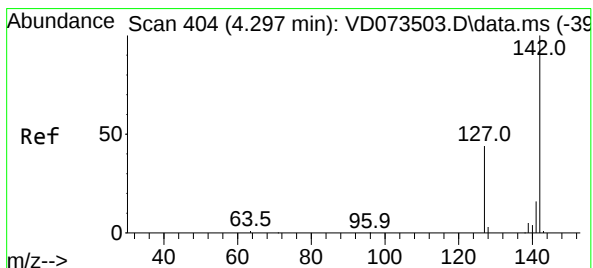
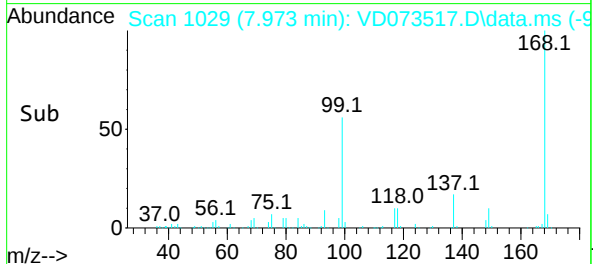
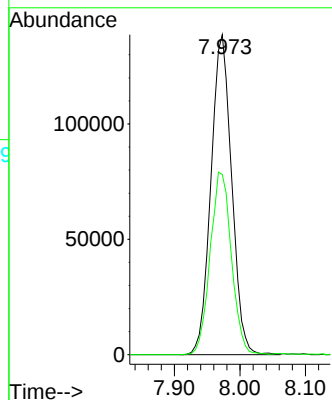


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Instrument :  
MSVOA\_D  
ClientSampleId :

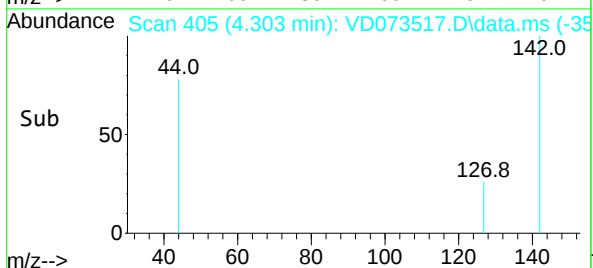
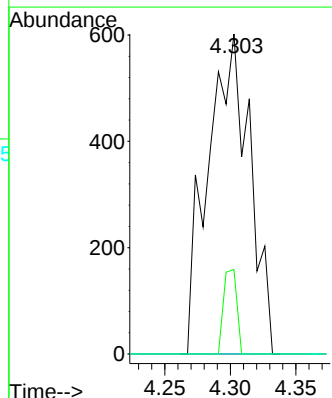
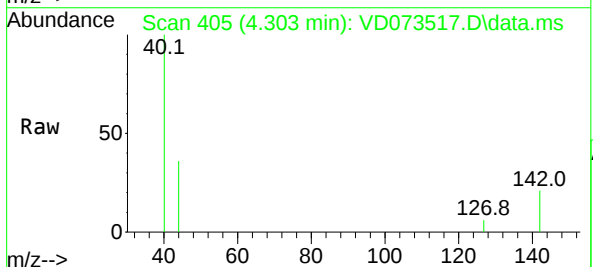


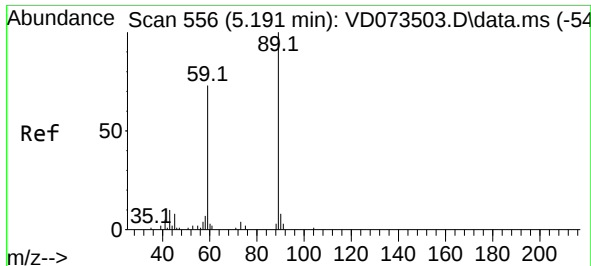
Tgt Ion:168 Resp: 303975  
Ion Ratio Lower Upper  
168 100  
99 56.3 49.8 74.6



#10  
Methyl Iodide  
Concen: 4.499 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. 0.006 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

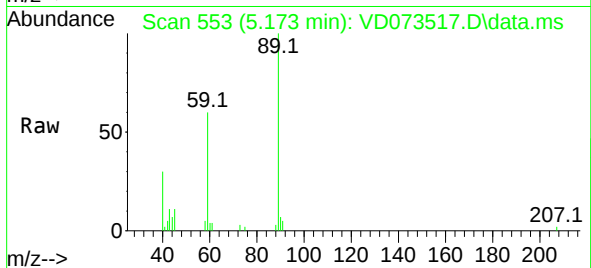
Tgt Ion:142 Resp: 1335  
Ion Ratio Lower Upper  
142 100  
127 8.2 37.3 55.9#  
141 0.0 11.7 17.5#



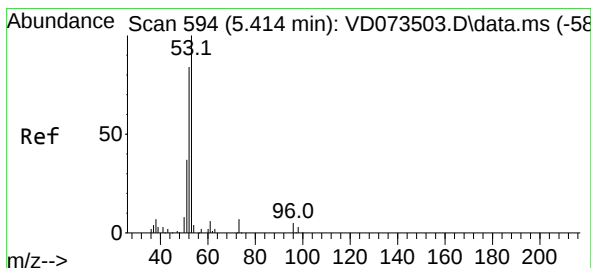
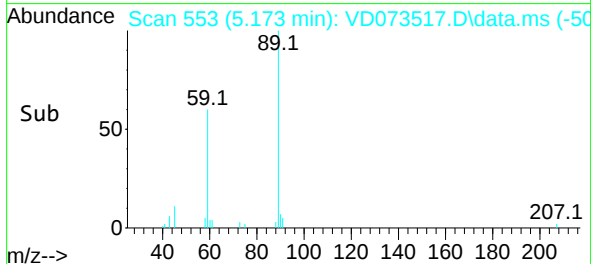
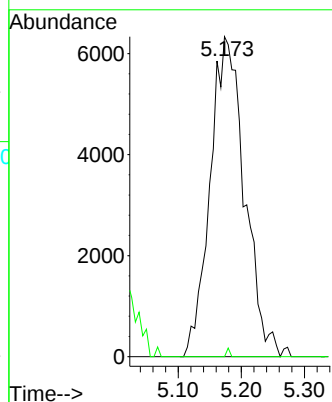


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.173 min Scan# 51  
Delta R.T. -0.018 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Instrument :  
MSVOA\_D  
ClientSampleId :

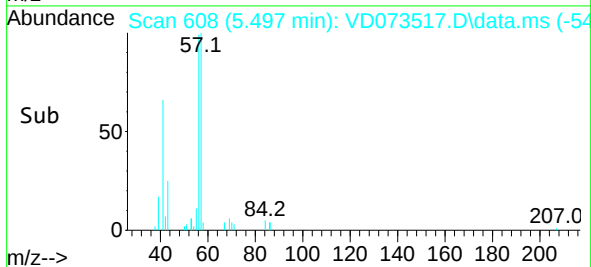
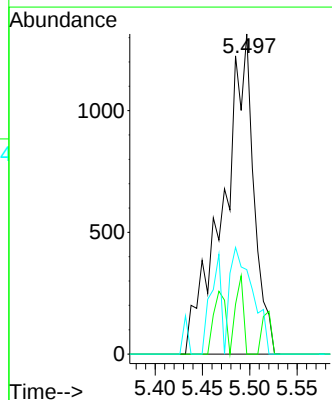
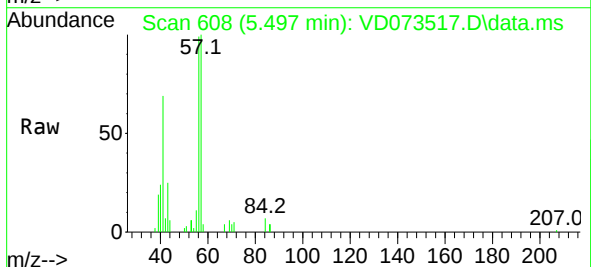


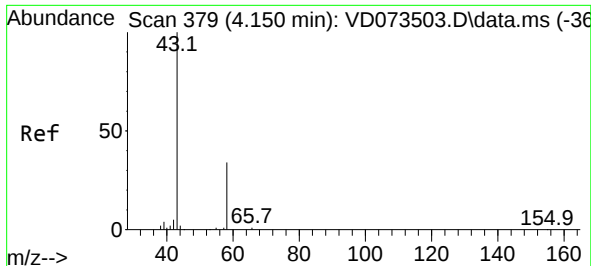
Tgt Ion: 59 Resp: 23946  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#15  
Acrylonitrile  
Concen: 4.238 ug/l  
RT: 5.497 min Scan# 608  
Delta R.T. 0.083 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

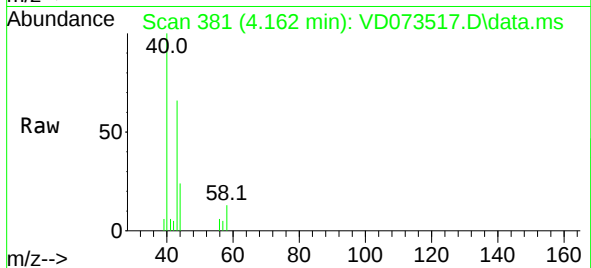
Tgt Ion: 53 Resp: 2975  
Ion Ratio Lower Upper  
53 100  
52 6.3 67.2 100.8#  
51 24.8 30.3 45.5#



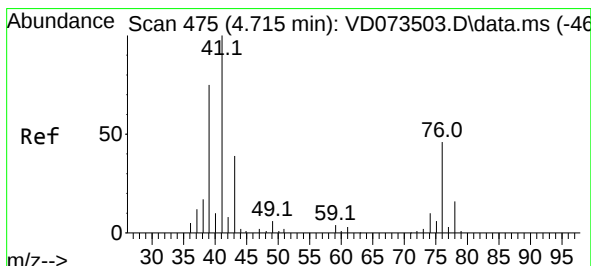
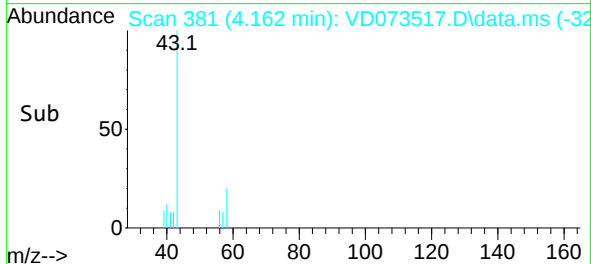
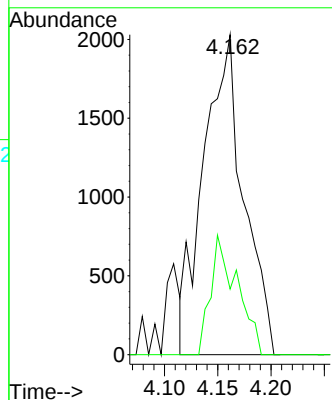


#16  
Acetone  
Concen: 9.238 ug/l  
RT: 4.162 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Instrument :  
MSVOA\_D  
ClientSampleId :

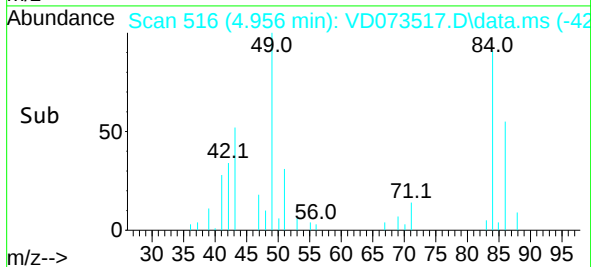
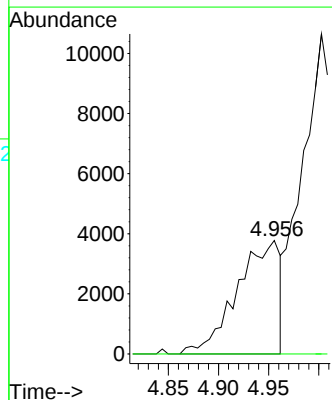
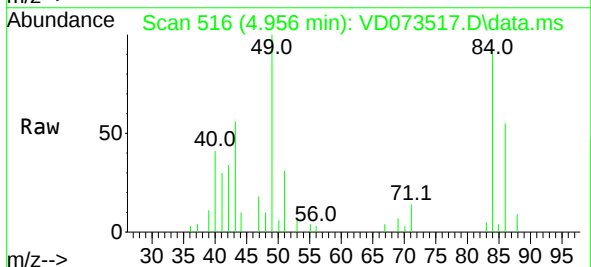


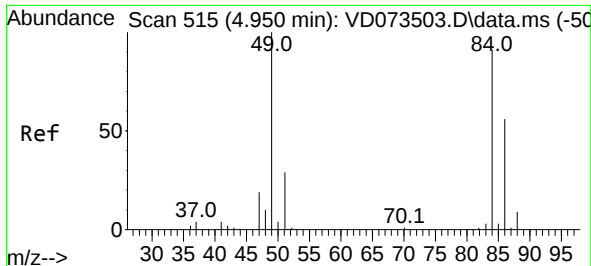
Tgt Ion: 43 Resp: 5306  
Ion Ratio Lower Upper  
43 100  
58 20.5 22.1 33.1#



#18  
Methyl Acetate  
Concen: 8.130 ug/l  
RT: 4.956 min Scan# 516  
Delta R.T. 0.241 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

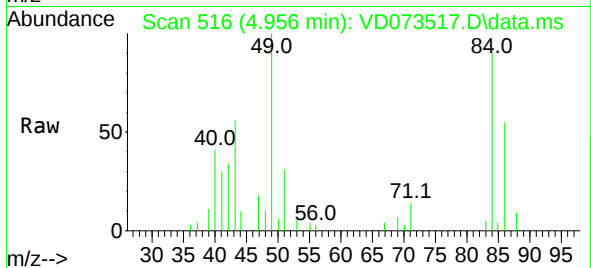
Tgt Ion: 43 Resp: 11255  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.7 25.1#



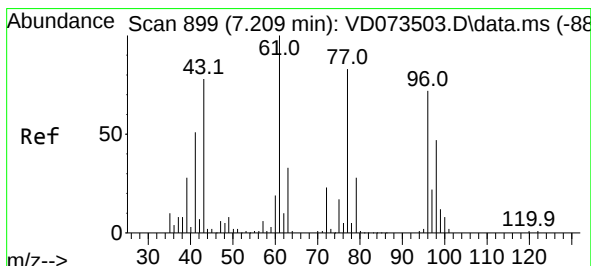
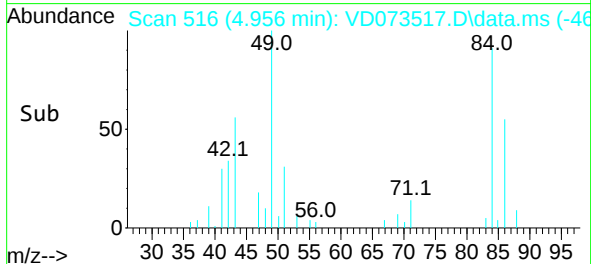
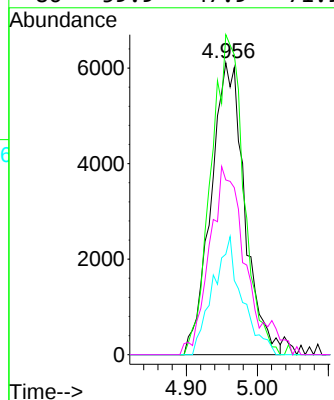


#20  
Methylene Chloride  
Concen: 2.480 ug/l  
RT: 4.956 min Scan# 515  
Delta R.T. 0.006 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Instrument :  
MSVOA\_D  
ClientSampleId :

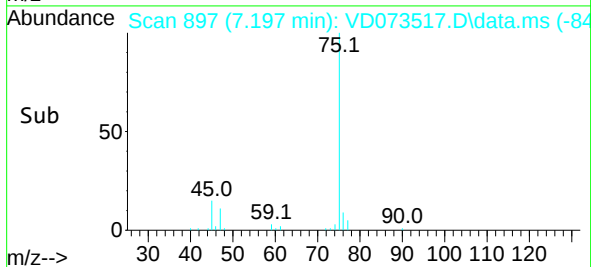
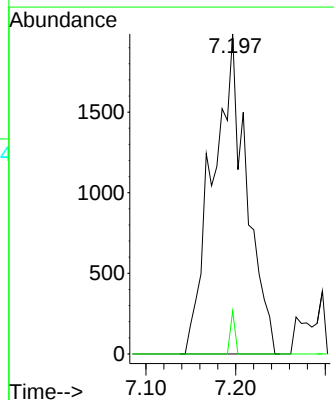
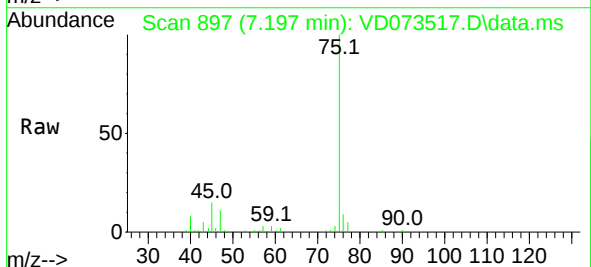


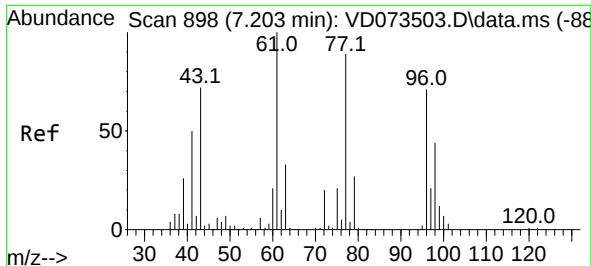
Tgt Ion: 84 Resp: 20100  
Ion Ratio Lower Upper  
84 100  
49 109.6 112.8 169.2#  
51 34.5 32.6 48.8  
86 59.9 47.9 71.9



#25  
2-Butanone  
Concen: 6.130 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.012 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

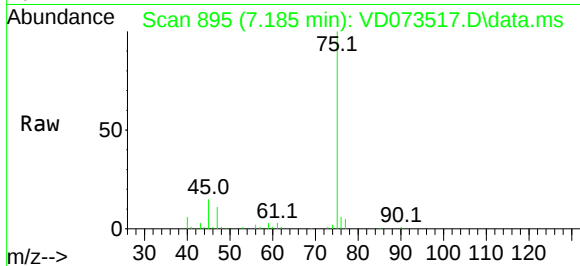
Tgt Ion: 43 Resp: 5181  
Ion Ratio Lower Upper  
43 100  
72 13.5 18.6 27.8#



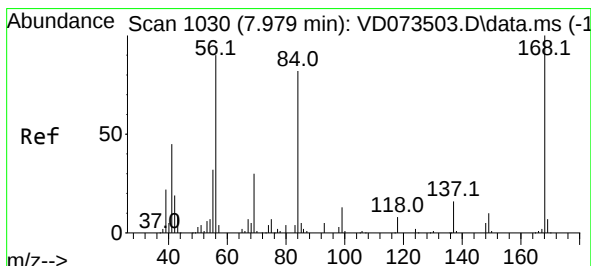
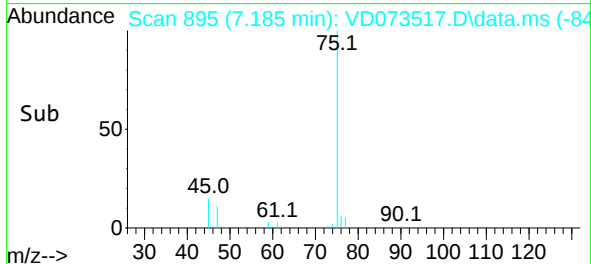
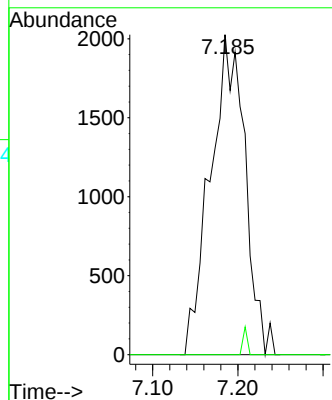


#26  
2,2-Dichloropropane  
Concen: 1.047 ug/l  
RT: 7.185 min Scan# 895  
Delta R.T. -0.018 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Instrument :  
MSVOA\_D  
ClientSampleId :

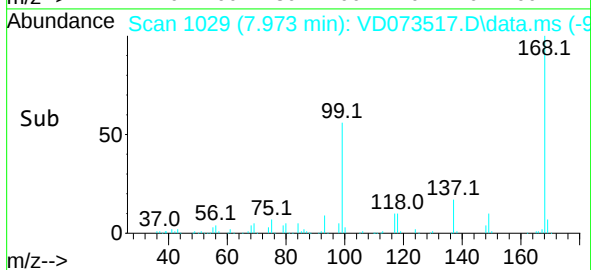
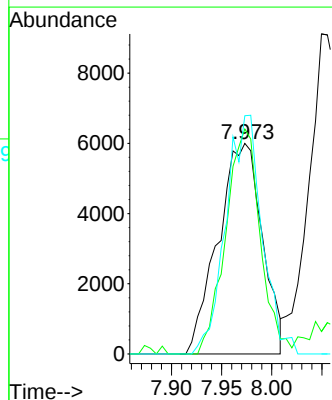
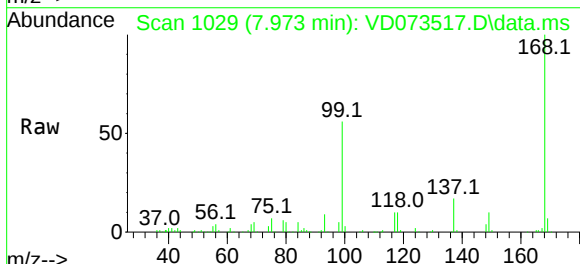


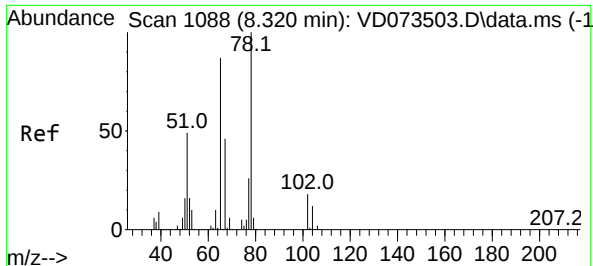
Tgt Ion: 77 Resp: 5735  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.8 32.4#



#31  
Cyclohexane  
Concen: 3.364 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Tgt Ion: 56 Resp: 18486  
Ion Ratio Lower Upper  
56 100  
69 106.9 25.4 38.2#  
84 113.2 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 46.662 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD073517.D

Acq: 09 Jun 2022 19:46

Instrument :

MSVOA\_D

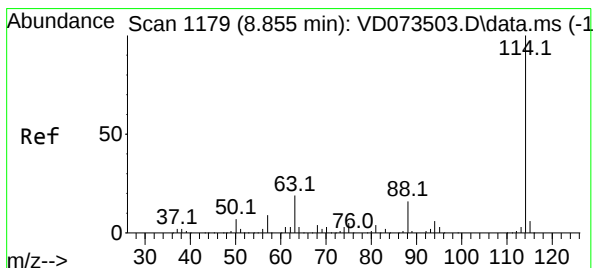
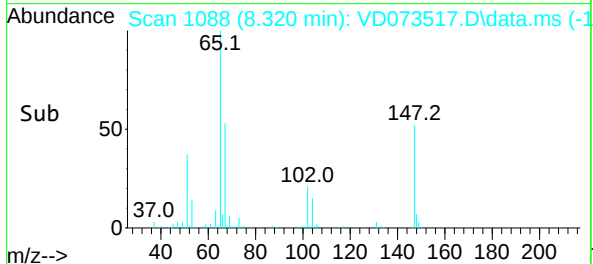
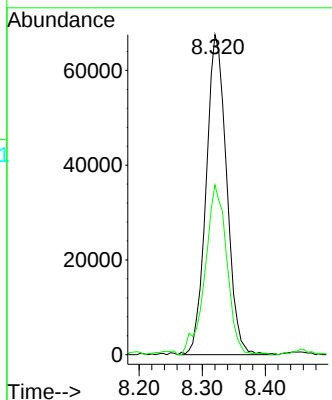
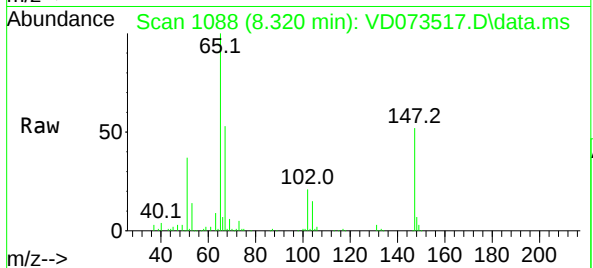
ClientSampleId :

Tgt Ion: 65 Resp: 152213

Ion Ratio Lower Upper

65 100

67 56.0 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073517.D

Acq: 09 Jun 2022 19:46

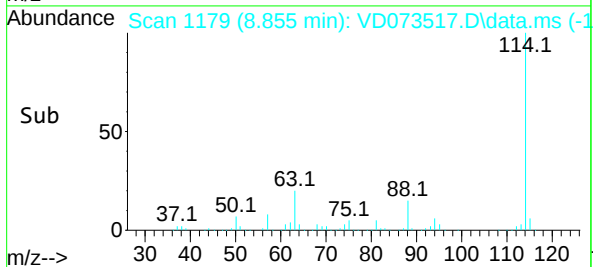
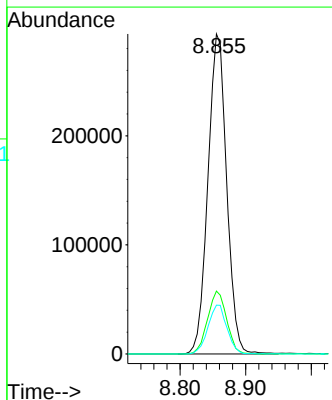
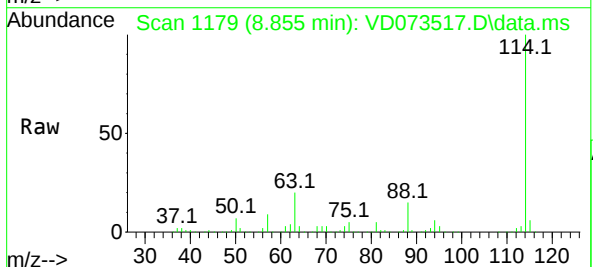
Tgt Ion: 114 Resp: 582609

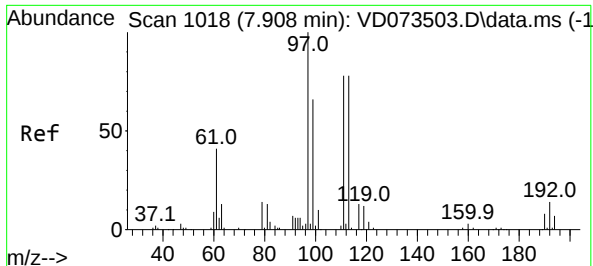
Ion Ratio Lower Upper

114 100

63 19.6 0.0 46.6

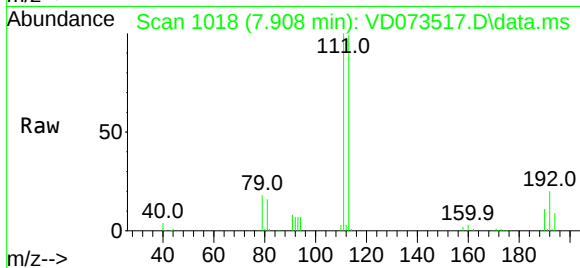
88 15.2 0.0 33.2



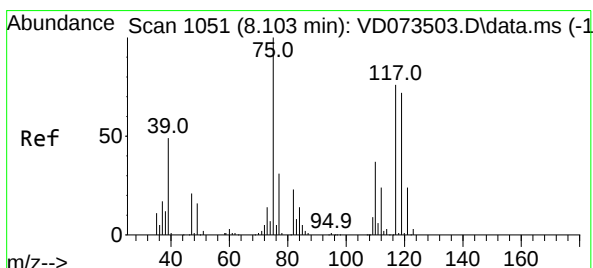
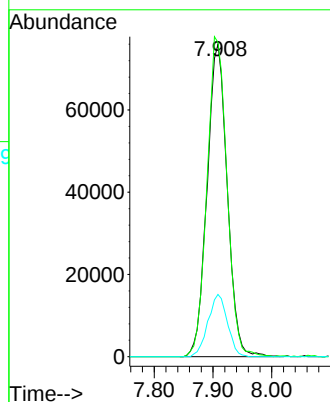
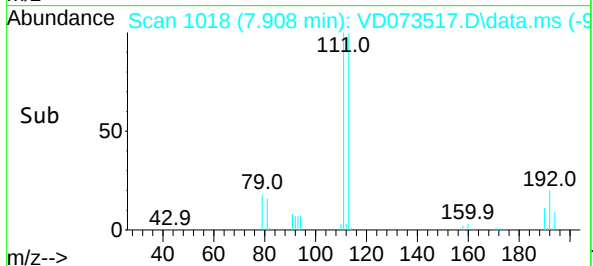


#35  
Dibromofluoromethane  
Concen: 48.359 ug/l  
RT: 7.908 min Scan# 1018  
Delta R.T. 0.000 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

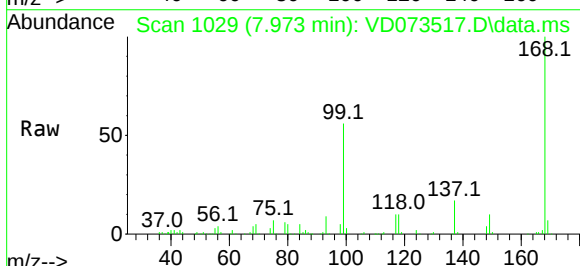
Instrument :  
MSVOA\_D  
ClientSampleId :



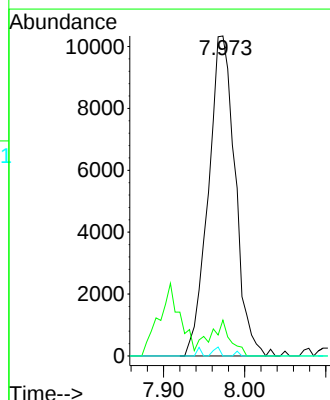
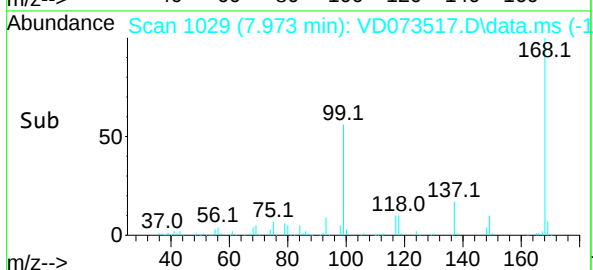
Tgt Ion:113 Resp: 181174  
Ion Ratio Lower Upper  
113 100  
111 101.6 83.8 125.6  
192 19.2 14.6 21.8

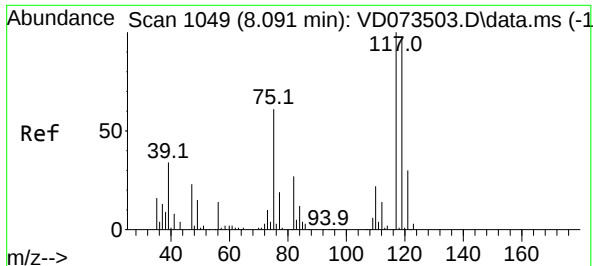


#36  
1,1-Dichloropropene  
Concen: 4.211 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.130 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46



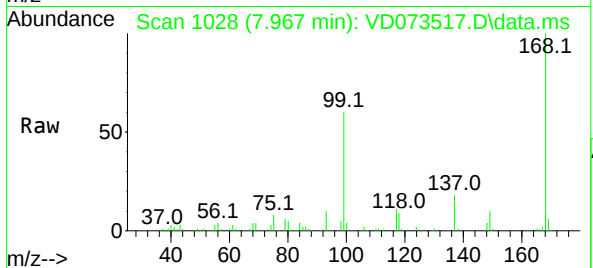
Tgt Ion: 75 Resp: 23697  
Ion Ratio Lower Upper  
75 100  
110 8.1 16.4 49.1#  
77 0.7 24.2 36.2#



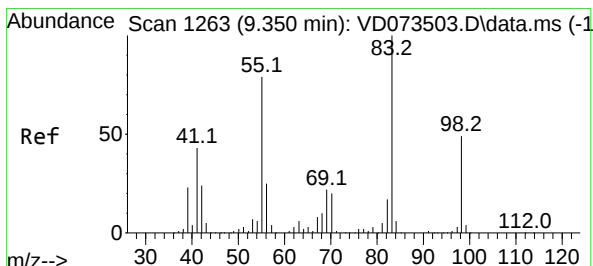
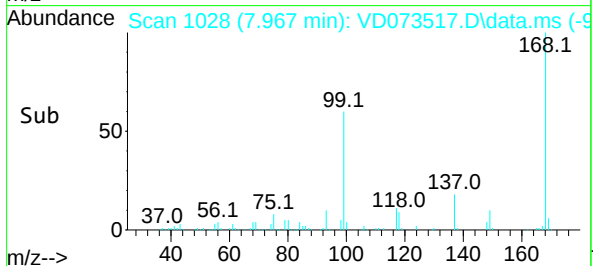
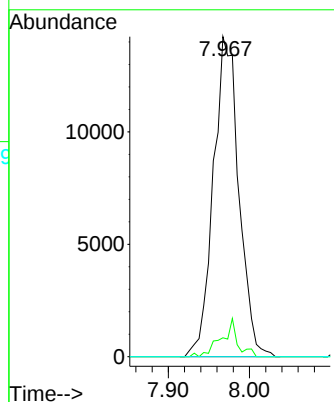


#38  
Carbon Tetrachloride  
Concen: 5.288 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.124 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Instrument :  
MSVOA\_D  
ClientSampleId :

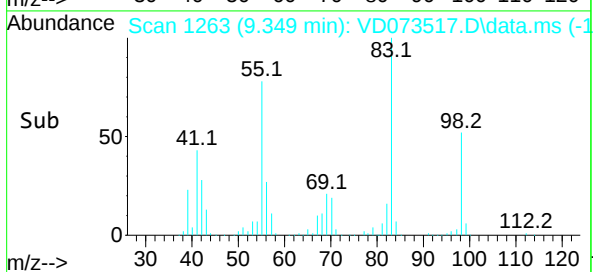
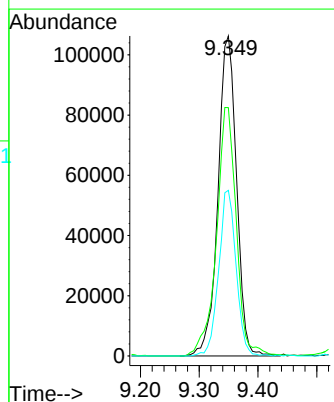
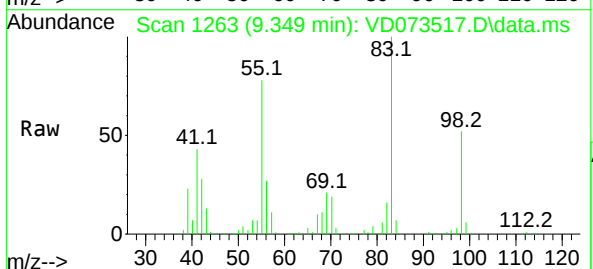


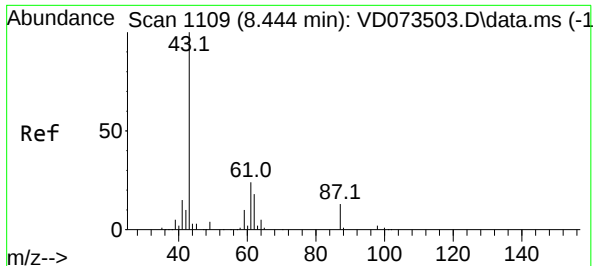
Tgt Ion:117 Resp: 31129  
Ion Ratio Lower Upper  
117 100  
119 5.9 75.8 113.6#  
121 0.0 24.5 36.7#



#39  
Methylcyclohexane  
Concen: 35.614 ug/l  
RT: 9.349 min Scan# 1263  
Delta R.T. -0.001 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Tgt Ion: 83 Resp: 233529  
Ion Ratio Lower Upper  
83 100  
55 77.6 63.2 94.8  
98 51.8 38.2 57.4

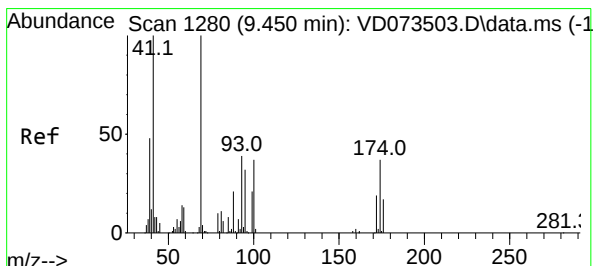
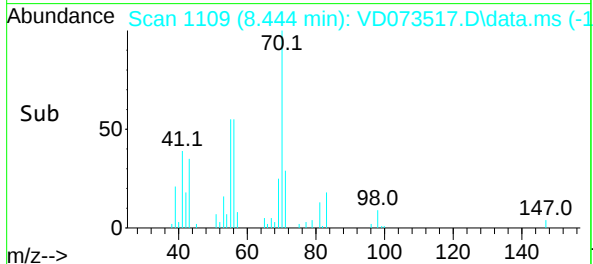
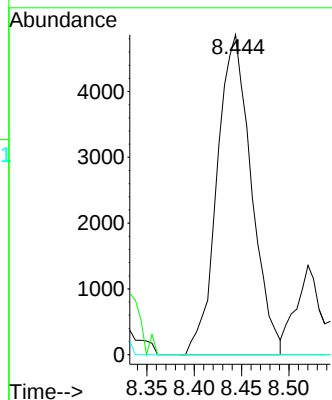
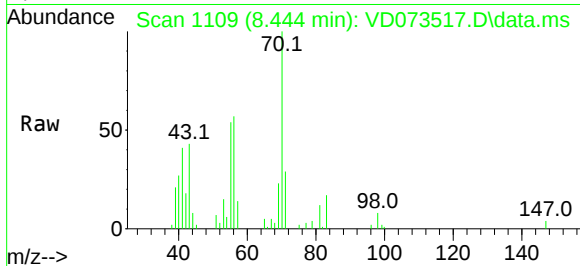




#43  
Isopropyl Acetate  
Concen: 2.800 ug/l  
RT: 8.444 min Scan# 1109  
Delta R.T. -0.000 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

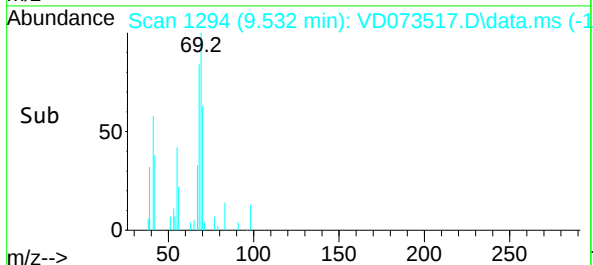
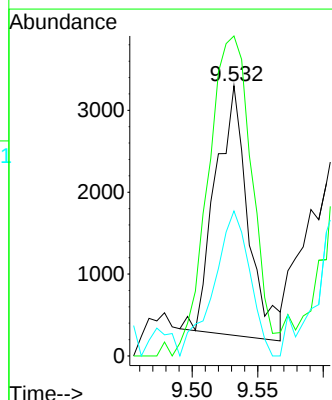
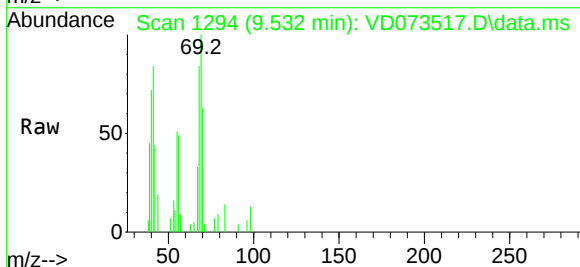
Instrument :  
MSVOA\_D  
ClientSampleId :

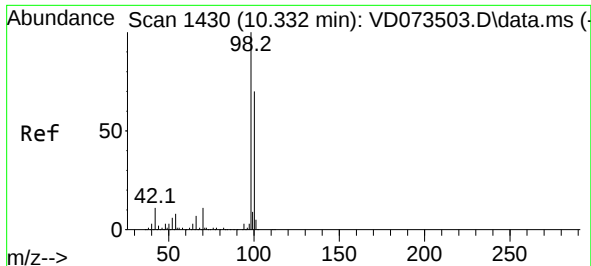
Tgt Ion: 43 Resp: 12244  
Ion Ratio Lower Upper  
43 100  
61 0.0 22.4 33.6#  
87 0.0 8.7 13.1#



#48  
Methyl methacrylate  
Concen: 2.443 ug/l  
RT: 9.532 min Scan# 1294  
Delta R.T. 0.082 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Tgt Ion: 41 Resp: 5293  
Ion Ratio Lower Upper  
41 100  
69 173.0 56.7 85.1#  
39 63.5 42.7 64.1

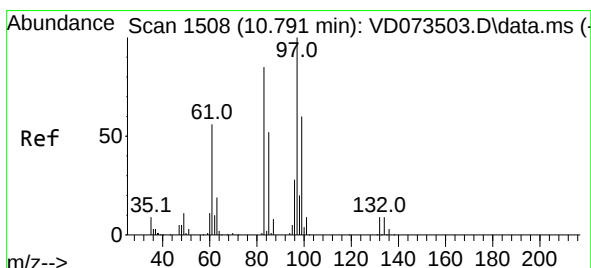
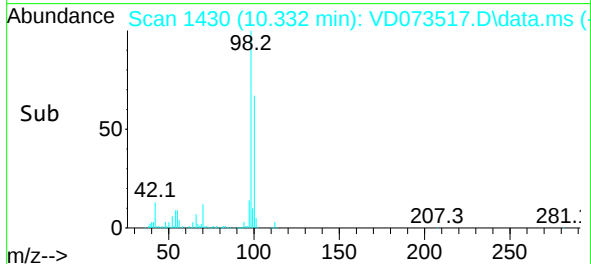
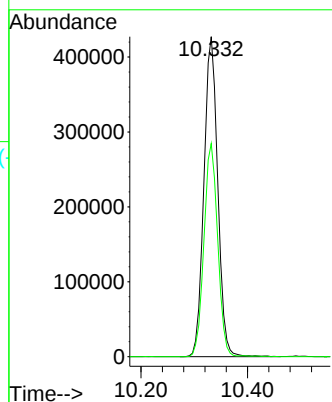
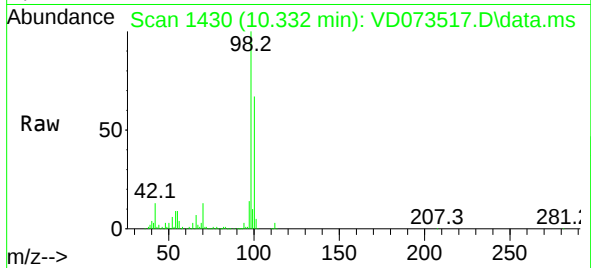




#50  
Toluene-d8  
Concen: 54.234 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

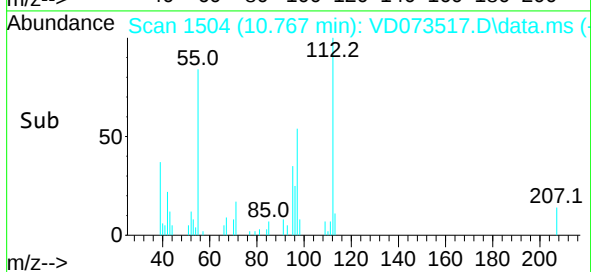
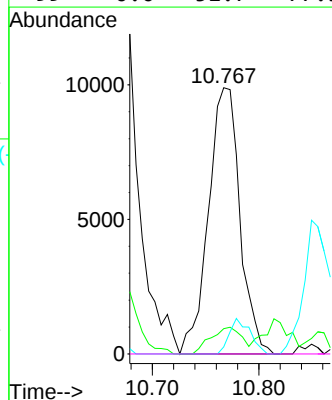
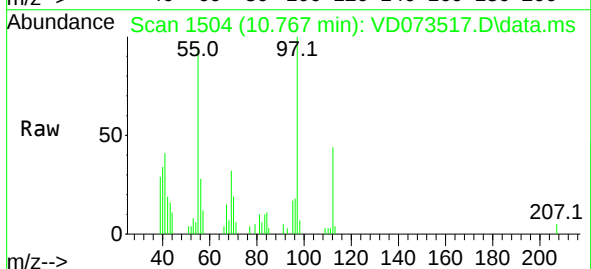
Instrument :  
MSVOA\_D  
ClientSampleId :

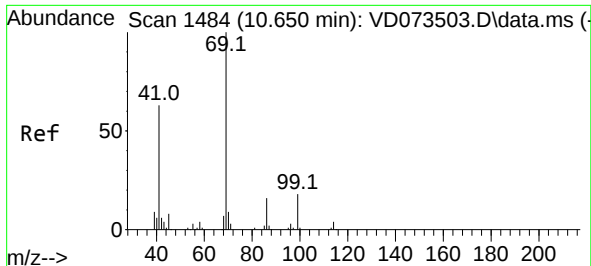
Tgt Ion: 98 Resp: 768202  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.4 78.6



#55  
1,1,2-Trichloroethane  
Concen: 6.222 ug/l  
RT: 10.767 min Scan# 1504  
Delta R.T. -0.024 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Tgt Ion: 97 Resp: 20269  
Ion Ratio Lower Upper  
97 100  
83 9.5 69.0 103.4#  
85 2.7 42.6 63.8#  
99 0.0 51.7 77.5#

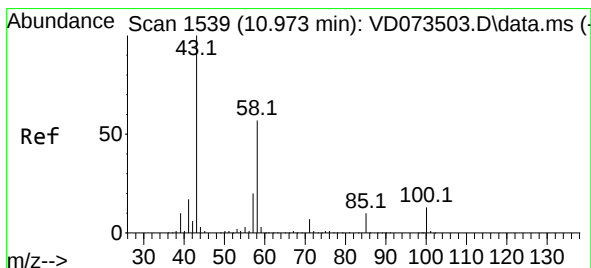
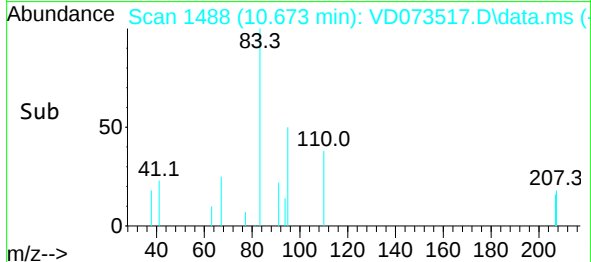
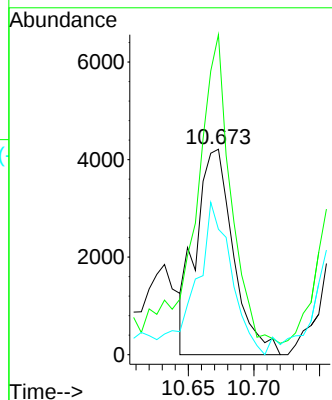
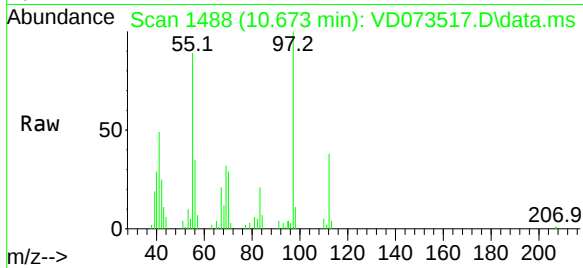




#56  
Ethyl methacrylate  
Concen: 2.240 ug/l  
RT: 10.673 min Scan# 1488  
Delta R.T. 0.023 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

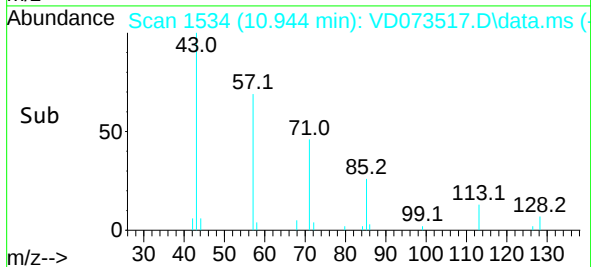
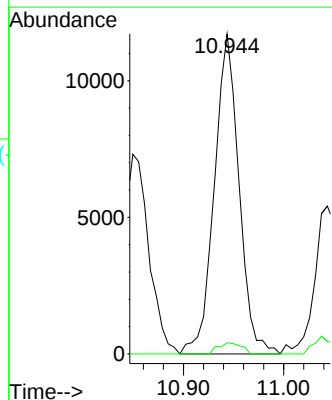
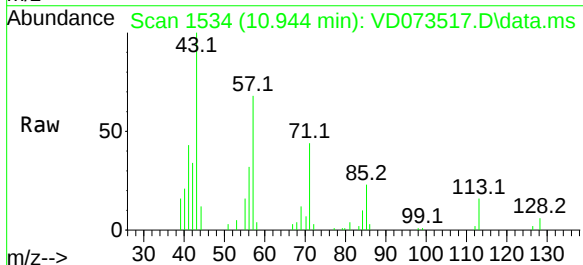
Instrument :  
MSVOA\_D  
ClientSampleId :

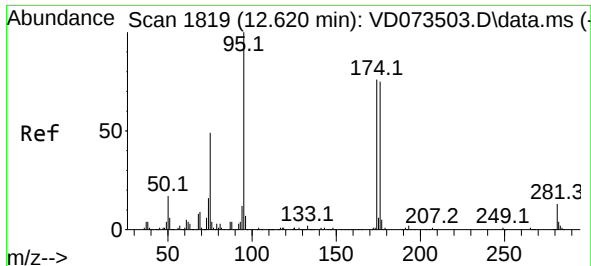
Tgt Ion: 69 Resp: 8359  
Ion Ratio Lower Upper  
69 100  
41 149.0 63.0 94.6#  
39 69.8 33.8 50.8#



#59  
2-Hexanone  
Concen: 13.224 ug/l  
RT: 10.944 min Scan# 1534  
Delta R.T. -0.030 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

Tgt Ion: 43 Resp: 20039  
Ion Ratio Lower Upper  
43 100  
58 3.3 25.3 75.9#

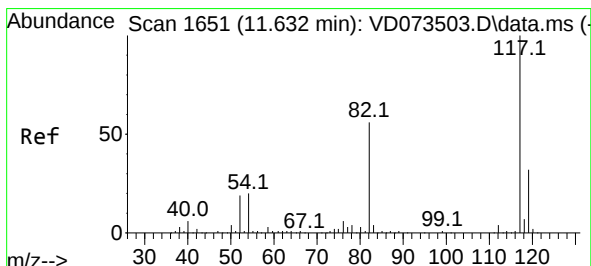
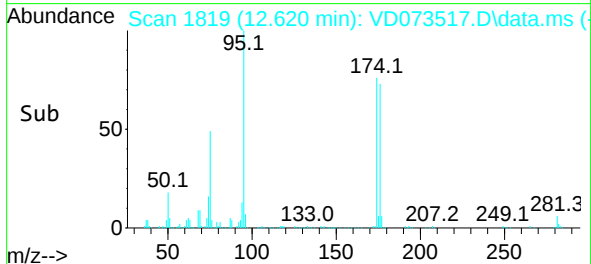
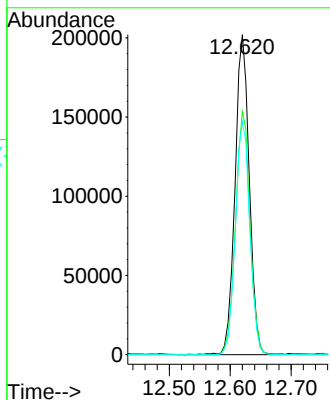
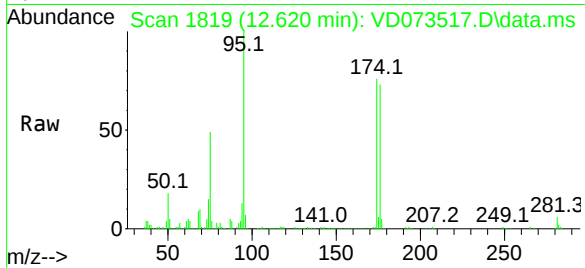




#62  
4-Bromofluorobenzene  
Concen: 63.967 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

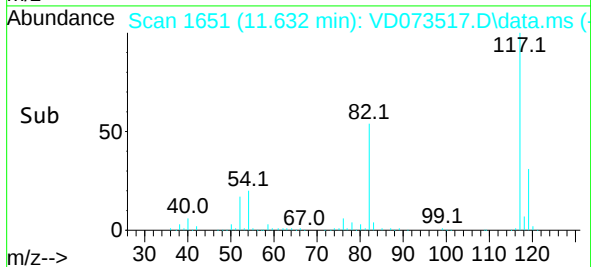
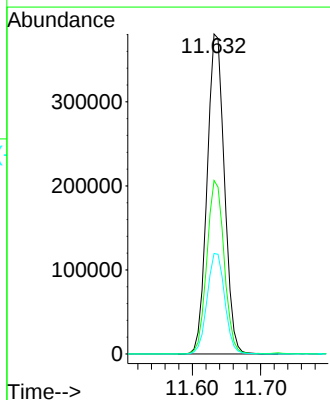
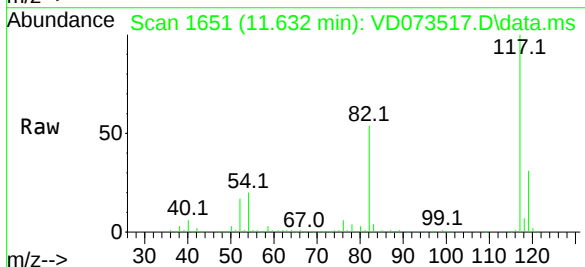
Instrument :  
MSVOA\_D  
ClientSampleId :

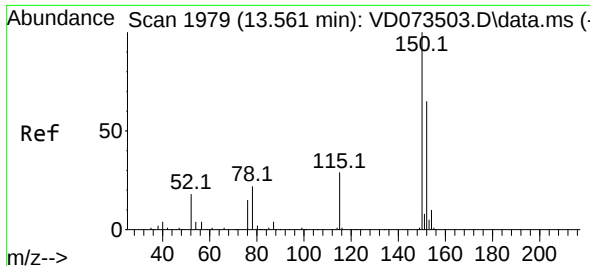
Tgt Ion: 95 Resp: 328930  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 152.8  
176 73.7 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

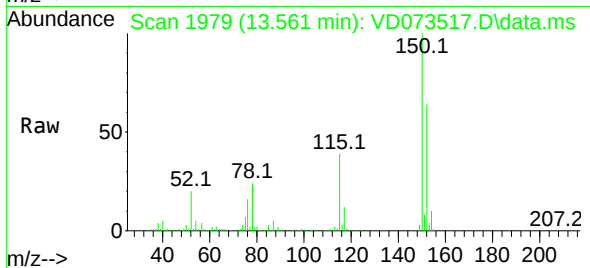
Tgt Ion: 117 Resp: 670690  
Ion Ratio Lower Upper  
117 100  
82 54.1 45.3 67.9  
119 31.4 26.6 40.0



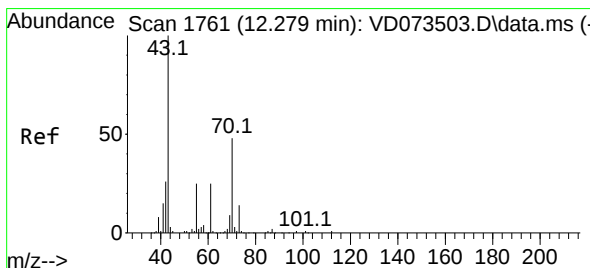
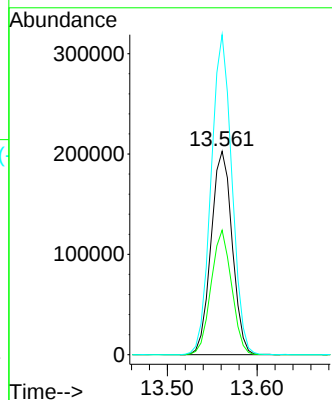
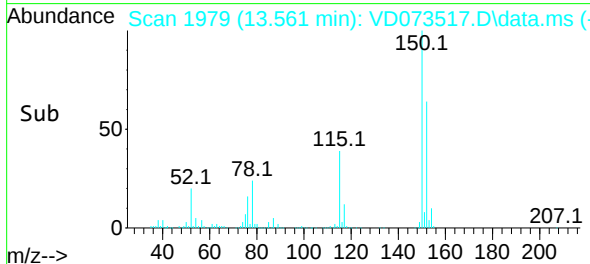


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1799  
Delta R.T. 0.000 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

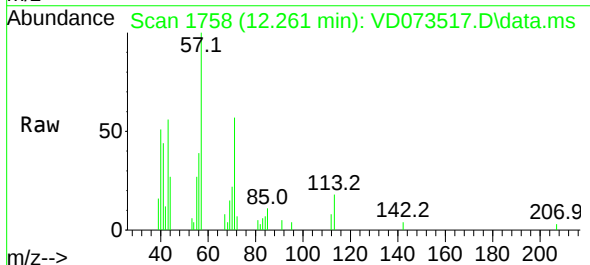
Instrument :  
MSVOA\_D  
ClientSampleId :



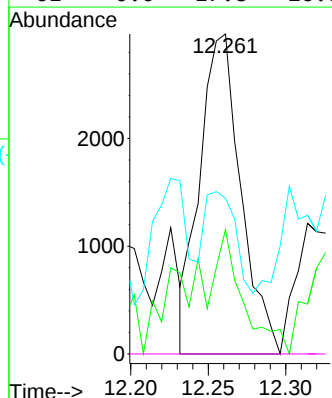
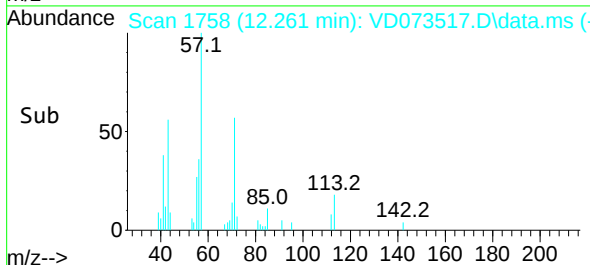
Tgt Ion:152 Resp: 331652  
Ion Ratio Lower Upper  
152 100  
115 59.5 31.3 93.8  
150 154.6 0.0 348.6

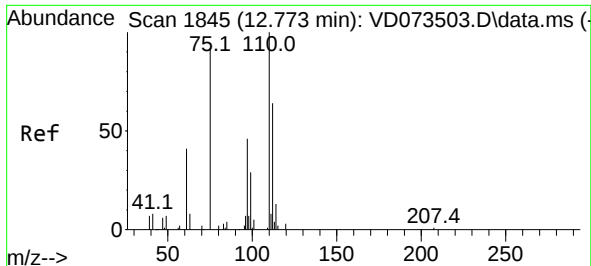


#74  
N-ethyl acetate  
Concen: 1.071 ug/l  
RT: 12.261 min Scan# 1758  
Delta R.T. -0.018 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46



Tgt Ion: 43 Resp: 5478  
Ion Ratio Lower Upper  
43 100  
70 26.0 31.3 46.9#  
55 22.9 20.0 30.0  
61 0.0 17.8 26.8#

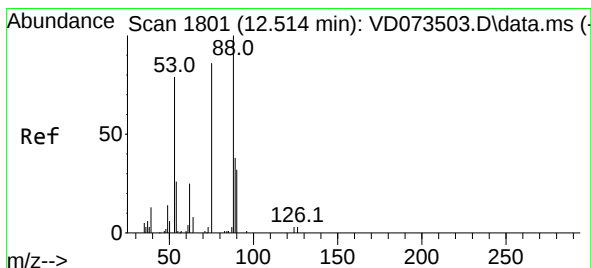
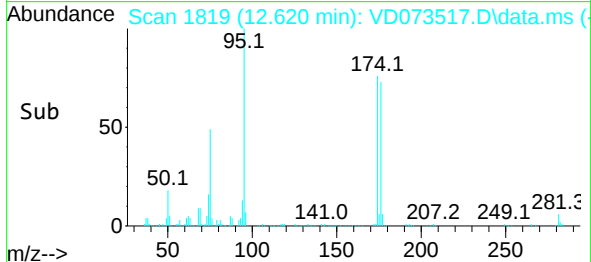
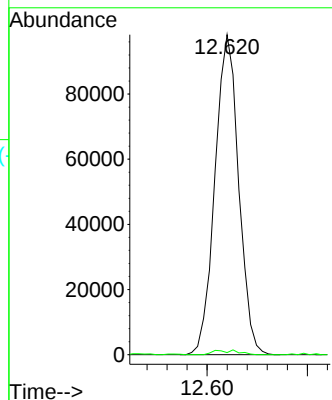
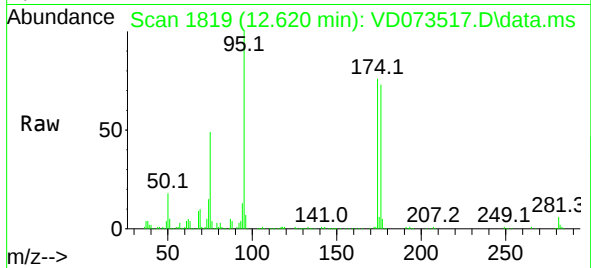




#76  
1,2,3-Trichloropropane  
Concen: 50.058 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

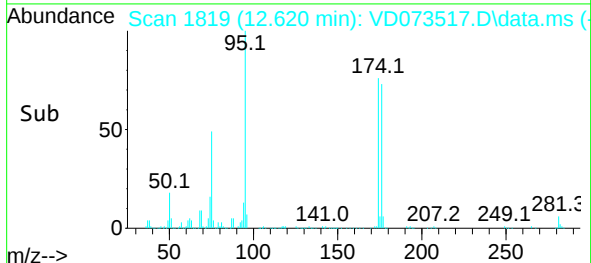
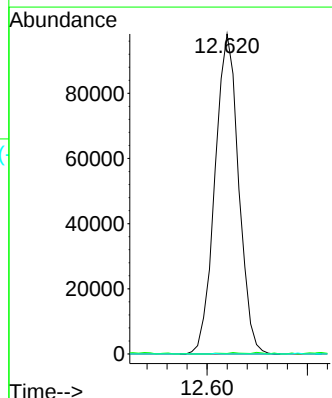
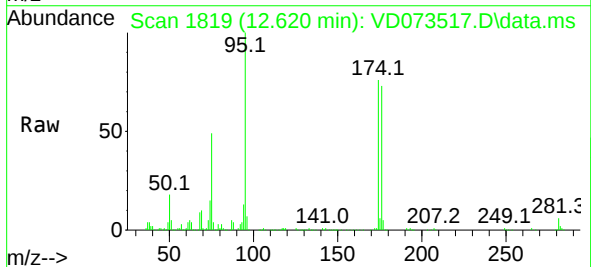
Instrument :  
MSVOA\_D  
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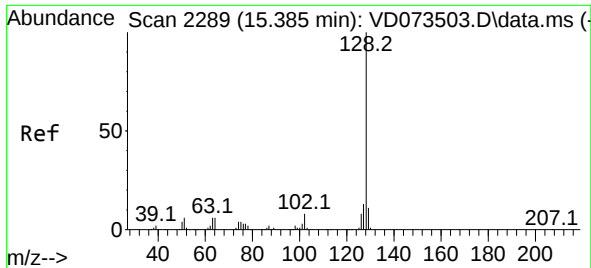
Tgt Ion: 75 Resp: 161281  
Ion Ratio Lower Upper  
75 100  
77 0.8 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 117.495 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073517.D  
Acq: 09 Jun 2022 19:46

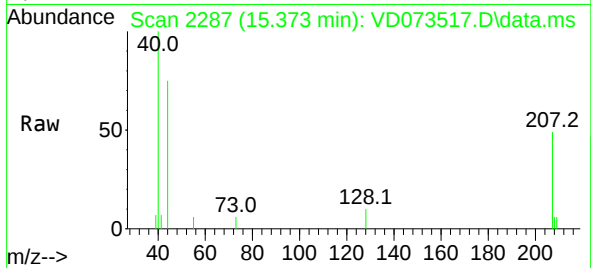
Tgt Ion: 75 Resp: 161281  
Ion Ratio Lower Upper  
75 100  
53 0.4 86.5 129.7#  
89 0.0 33.9 50.9#





#95  
 Naphthalene  
 Concen: 4.227 ug/l  
 RT: 15.373 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: VD073517.D  
 Acq: 09 Jun 2022 19:46

Instrument : MSVOA\_D  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 304   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.3  | 15.5# |
| 129      | 0.0   | 8.4   | 12.6# |

