

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080922\  
 Data File : VD074009.D  
 Acq On : 10 Aug 2022 01:55  
 Operator : VA/SY  
 Sample : N4046-11  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 10 04:48:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D080922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 10 01:05:43 2022  
 Response via : Initial Calibration

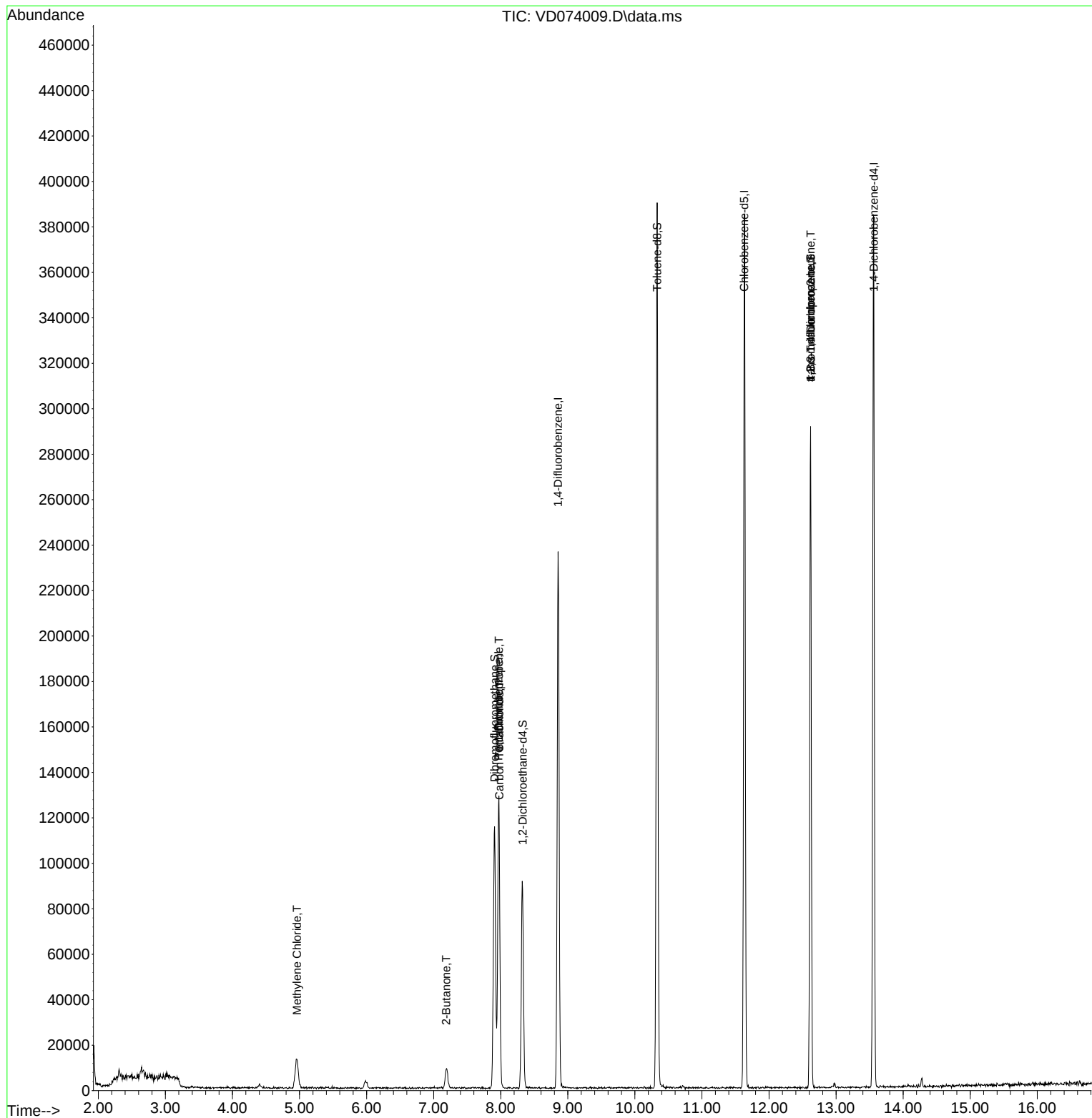
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.967  | 168   | 90624    | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856  | 114   | 200490   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 214137   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 100381   | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 72530    | 90.273    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 180.540%# |          |
| 35) Dibromofluoromethane      | 7.909  | 113   | 80155    | 65.447    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 130.900%  |          |
| 50) Toluene-d8                | 10.332 | 98    | 255445   | 70.606    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 141.220%# |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 89757    | 57.726    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 115.460%  |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 117      | Below Cal | #           | 43       |
| 3) Chloromethane              | 2.215  | 50    | 364      | Below Cal | #           | 40       |
| 5) Bromomethane               | 2.779  | 94    | 662      | Below Cal | #           | 48       |
| 11) Tert butyl alcohol        | 5.191  | 59    | 58       | Below Cal | #           | 74       |
| 17) Carbon Disulfide          | 4.403  | 76    | 3275     | Below Cal | #           | 73       |
| 18) Methyl Acetate            | 4.644  | 43    | 54       | Below Cal | #           | 49       |
| 20) Methylene Chloride        | 4.962  | 84    | 9598     | 3.588     | ug/l        | 93       |
| 25) 2-Butanone                | 7.185  | 43    | 503      | 1.980     | ug/l #      | 46       |
| 31) Cyclohexane               | 7.962  | 56    | 2591     | Below Cal | #           | 61       |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 7632     | 4.427     | ug/l #      | 50       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 9599     | 4.730     | ug/l #      | 17       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 51258    | 67.370    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 51258    | 144.797   | ug/l #      | 13       |
| -----                         |        |       |          |           |             |          |

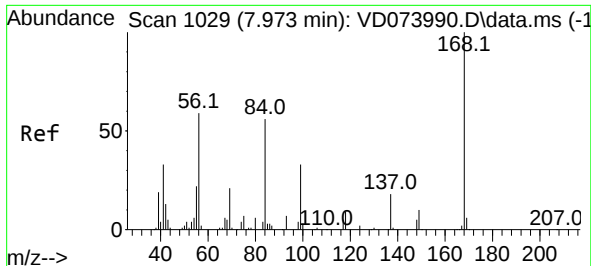
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080922\  
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MSVOA\_D  
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Quant Time: Aug 10 04:48:34 2022  
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Quant Title : SW846 8260  
QLast Update : Wed Aug 10 01:05:43 2022  
Response via : Initial Calibration

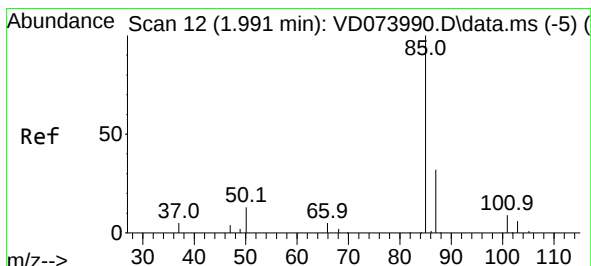
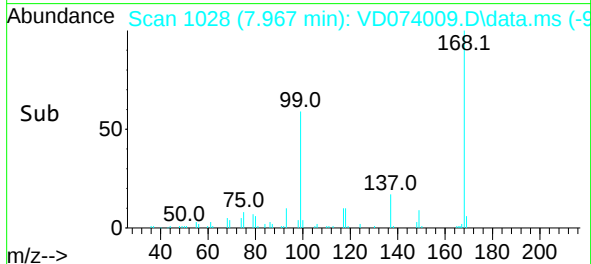
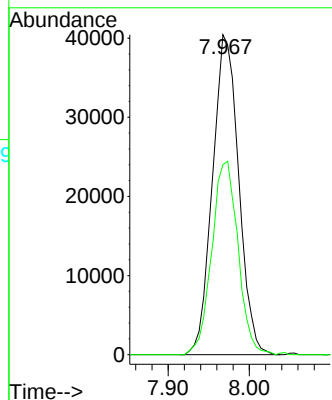
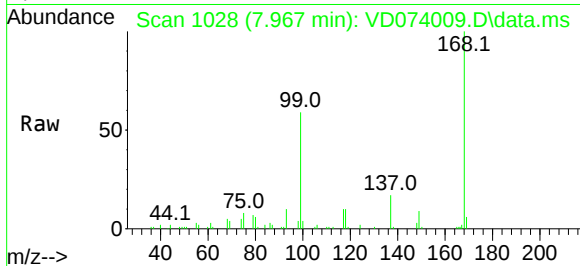




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.967 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

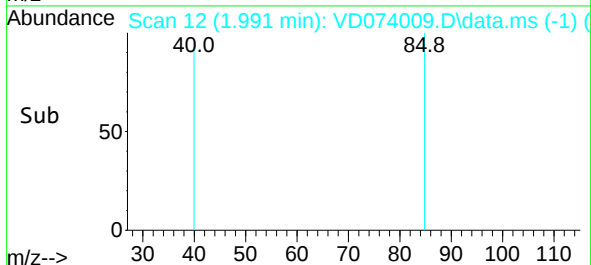
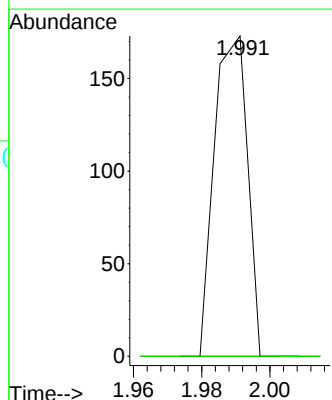
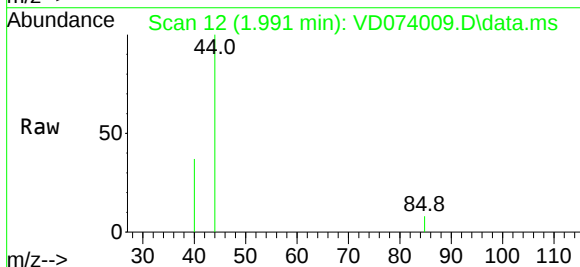
Instrument :  
MSVOA\_D  
ClientSampleId :

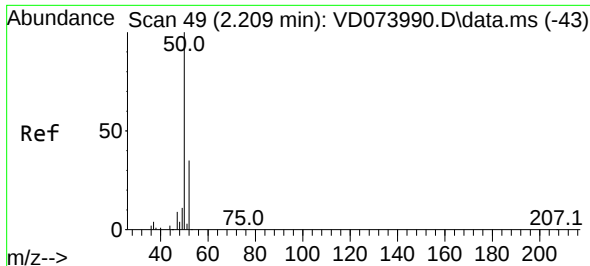
Tgt Ion:168 Resp: 90624  
Ion Ratio Lower Upper  
168 100  
99 59.4 48.3 72.5



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.991 min Scan# 12  
Delta R.T. 0.000 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Tgt Ion: 85 Resp: 117  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.0 47.9#

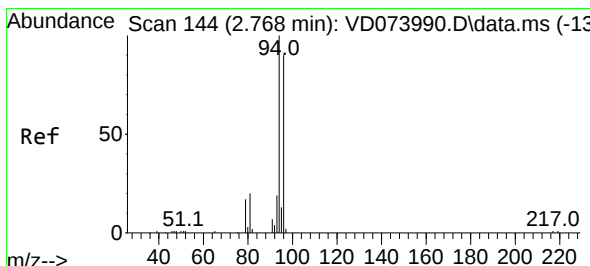
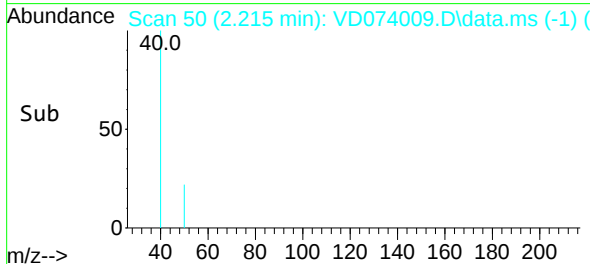
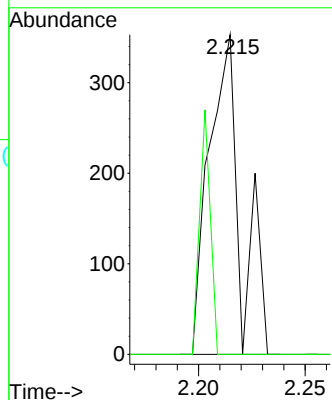
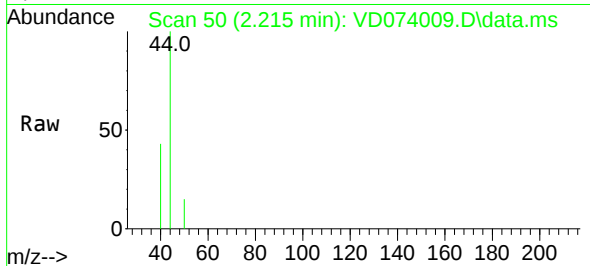




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.215 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

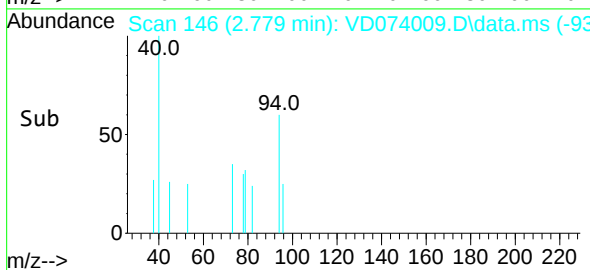
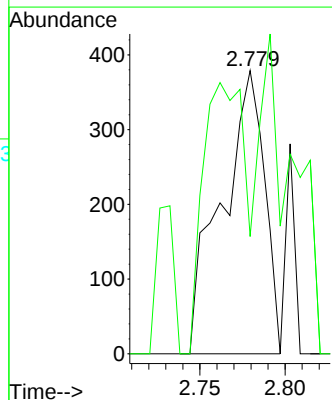
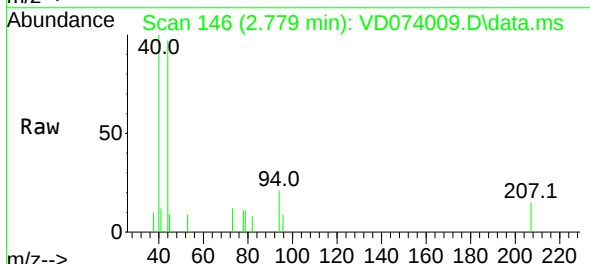
Instrument :  
MSVOA\_D  
ClientSampleId :

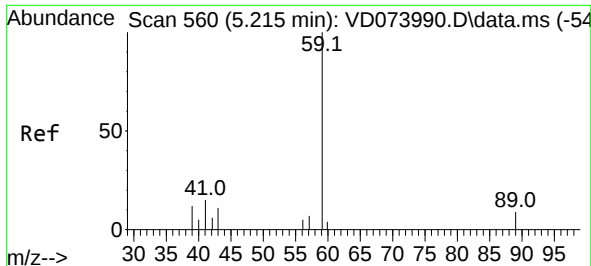
Tgt Ion: 50 Resp: 364  
Ion Ratio Lower Upper  
50 100  
52 0.0 28.1 42.1#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.011 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

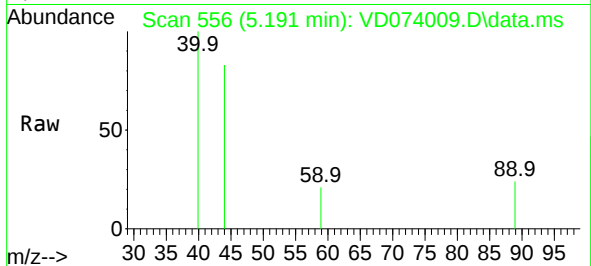
Tgt Ion: 94 Resp: 662  
Ion Ratio Lower Upper  
94 100  
96 41.4 72.0 108.0#



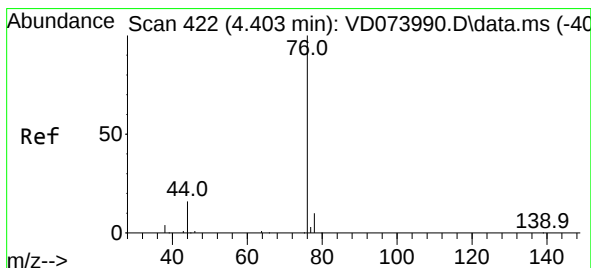
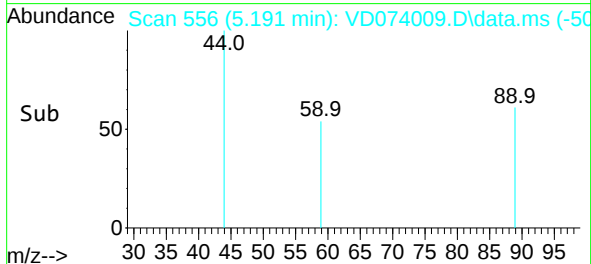
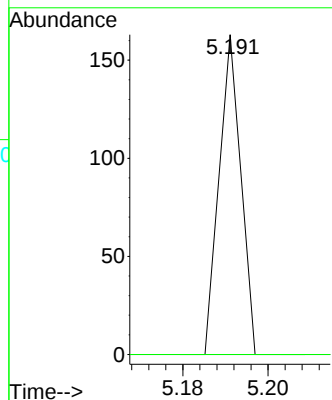


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.191 min Scan# 51  
Delta R.T. -0.024 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Instrument :  
MSVOA\_D  
ClientSampleId :

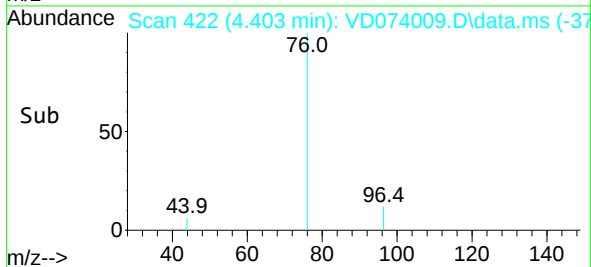
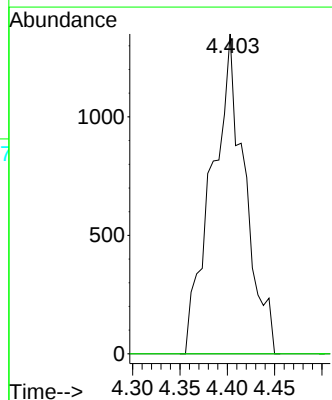
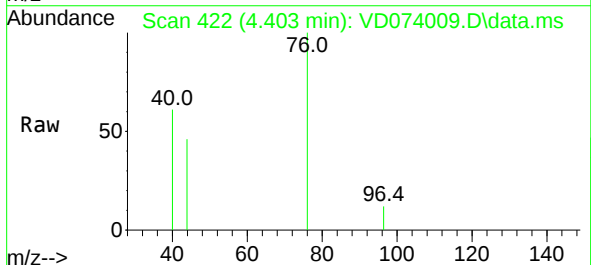


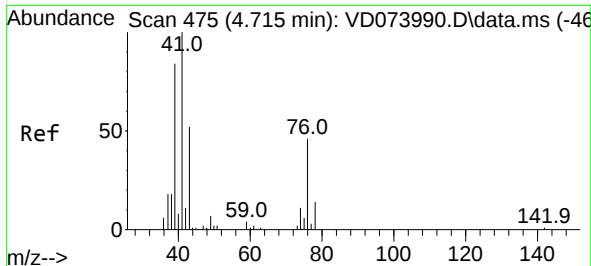
Tgt Ion: 59 Resp: 58  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.403 min Scan# 422  
Delta R.T. -0.000 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

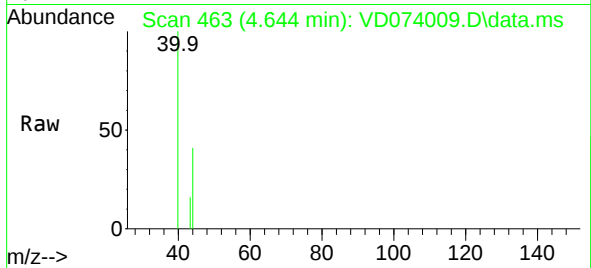
Tgt Ion: 76 Resp: 3275  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.9 11.9#



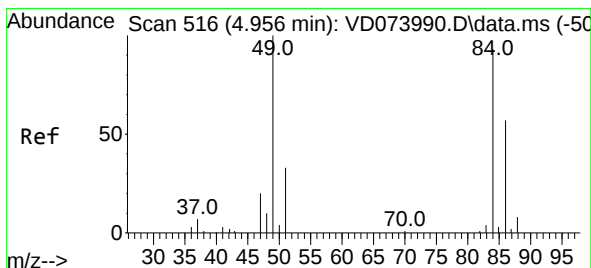
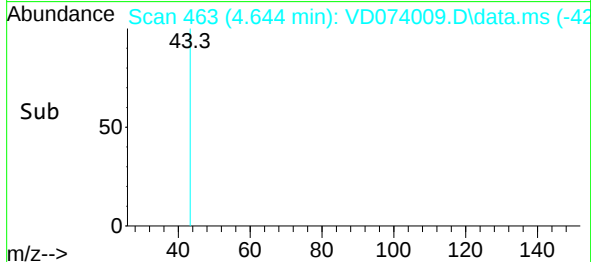
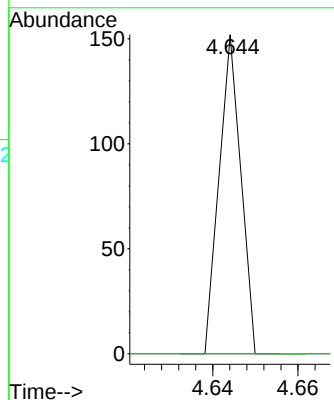


#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.644 min Scan# 41  
Delta R.T. -0.071 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Instrument :  
MSVOA\_D  
ClientSampleId :

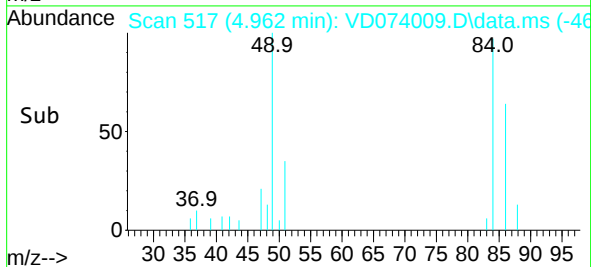
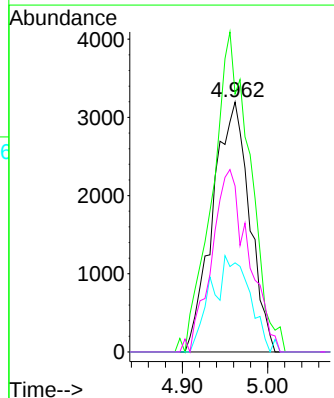
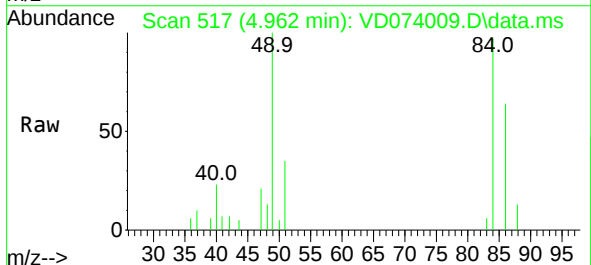


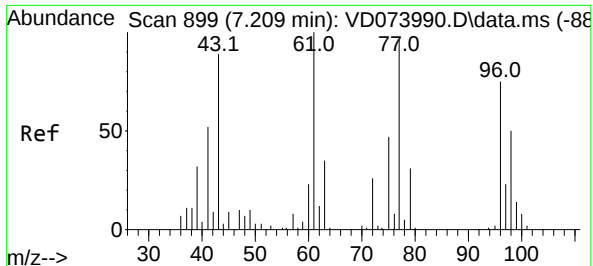
Tgt Ion: 43 Resp: 54  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.4#



#20  
Methylene Chloride  
Concen: 3.588 ug/l  
RT: 4.962 min Scan# 517  
Delta R.T. 0.006 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Tgt Ion: 84 Resp: 9598  
Ion Ratio Lower Upper  
84 100  
49 97.8 85.8 128.6  
51 35.6 28.0 42.0  
86 66.4 49.0 73.4





#25

2-Butanone

Concen: 1.980 ug/l

RT: 7.185 min Scan# 899

Delta R.T. -0.024 min

Lab File: VD074009.D

Acq: 10 Aug 2022 01:55

Instrument :

MSVOA\_D

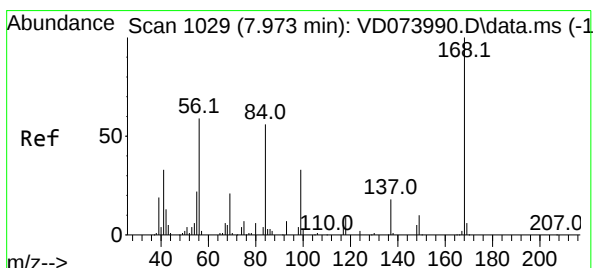
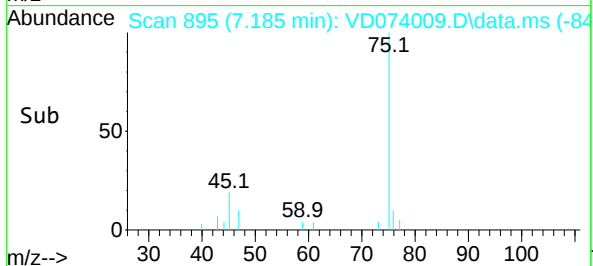
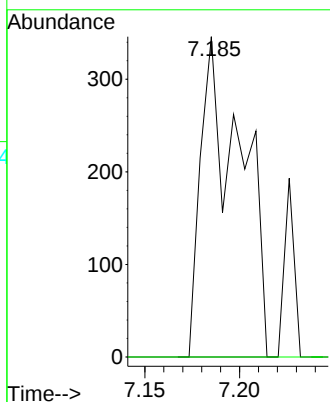
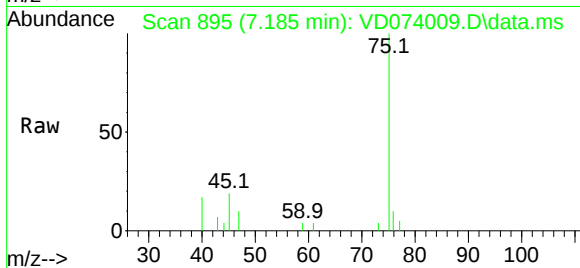
ClientSampleId :

Tgt Ion: 43 Resp: 503

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.962 min Scan# 1027

Delta R.T. -0.011 min

Lab File: VD074009.D

Acq: 10 Aug 2022 01:55

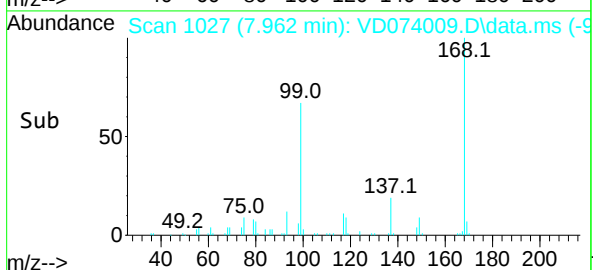
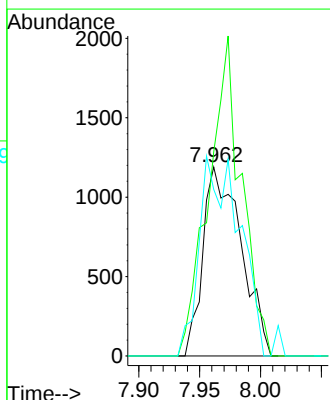
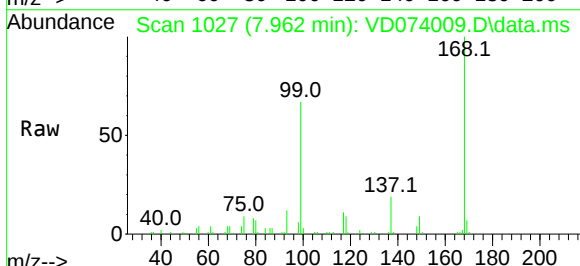
Tgt Ion: 56 Resp: 2591

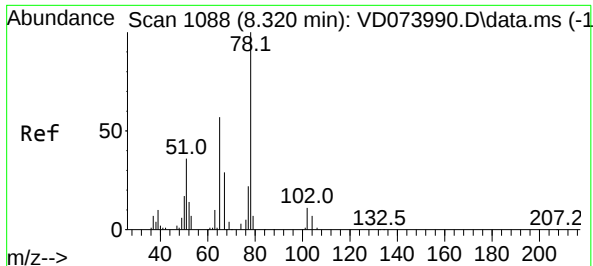
Ion Ratio Lower Upper

56 100

69 107.9 27.9 41.9#

84 88.2 75.8 113.6





#33

1,2-Dichloroethane-d4

Concen: 90.273 ug/l

RT: 8.326 min Scan# 1108

Delta R.T. 0.006 min

Lab File: VD074009.D

Acq: 10 Aug 2022 01:55

Instrument :

MSVOA\_D

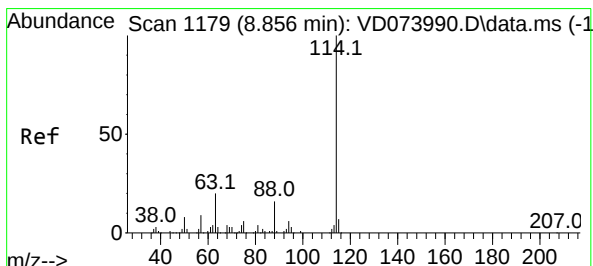
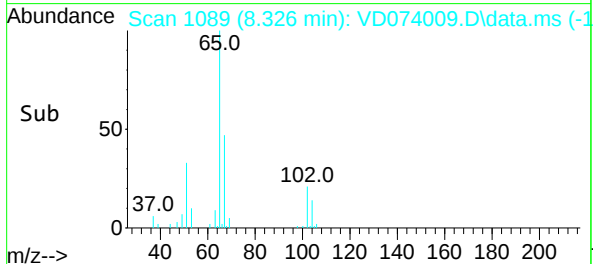
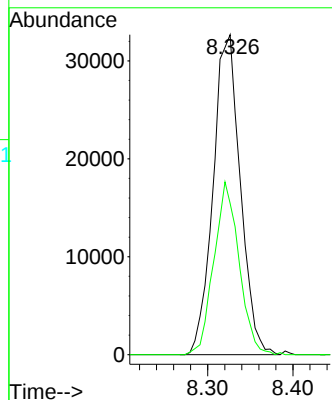
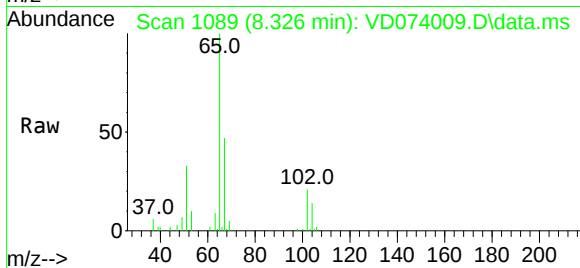
ClientSampleId :

Tgt Ion: 65 Resp: 72530

Ion Ratio Lower Upper

65 100

67 50.0 0.0 113.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. -0.000 min

Lab File: VD074009.D

Acq: 10 Aug 2022 01:55

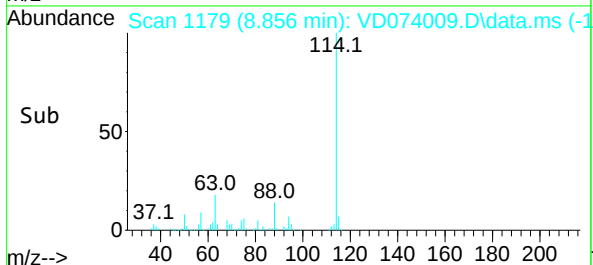
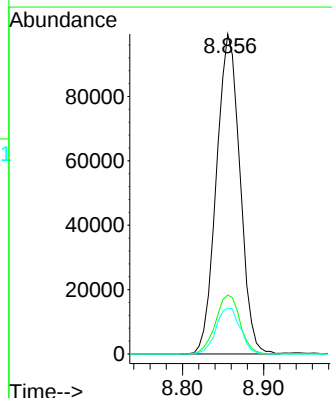
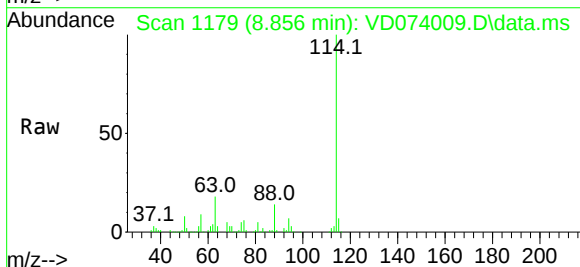
Tgt Ion: 114 Resp: 200490

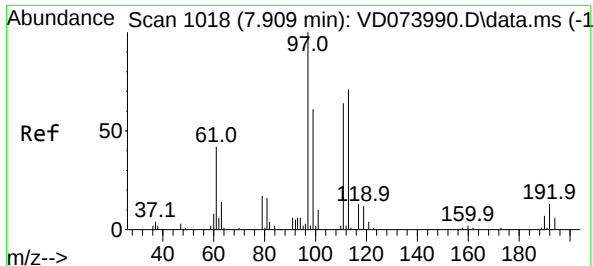
Ion Ratio Lower Upper

114 100

63 18.4 0.0 41.0

88 14.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 65.447 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.000 min

Lab File: VD074009.D

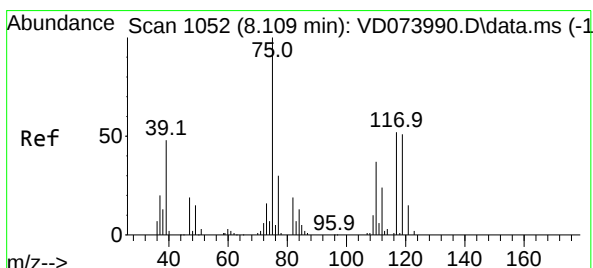
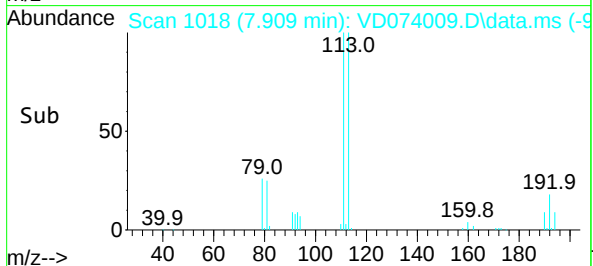
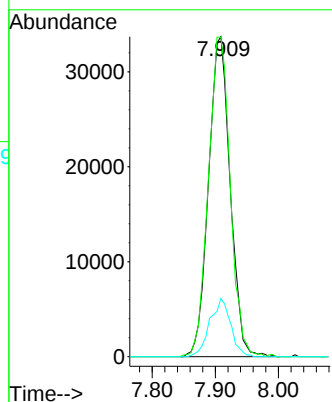
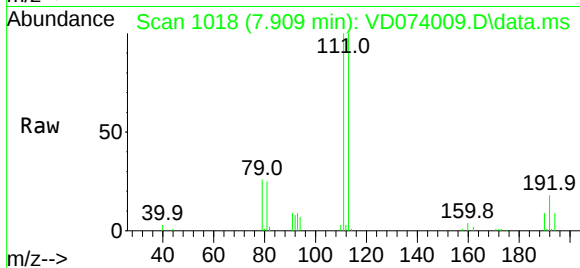
Acq: 10 Aug 2022 01:55

Instrument :

MSVOA\_D

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 80155       |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 101.0 | 80.0 120.0  |
| 192         | 17.5  | 14.2 21.4   |



#36

1,1-Dichloropropene

Concen: 4.427 ug/l

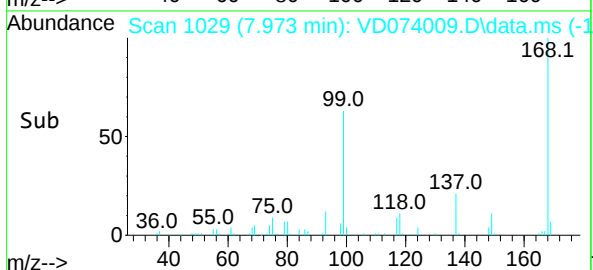
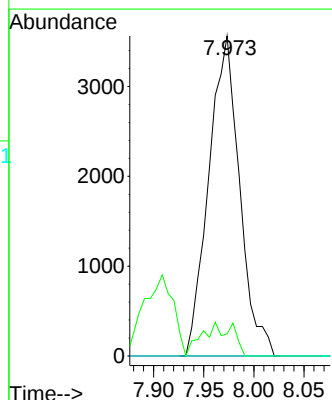
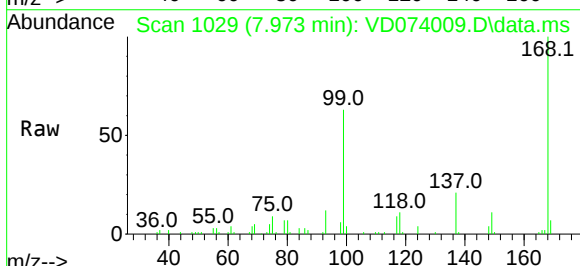
RT: 7.973 min Scan# 1029

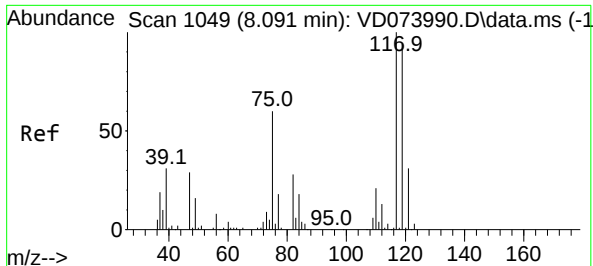
Delta R.T. -0.135 min

Lab File: VD074009.D

Acq: 10 Aug 2022 01:55

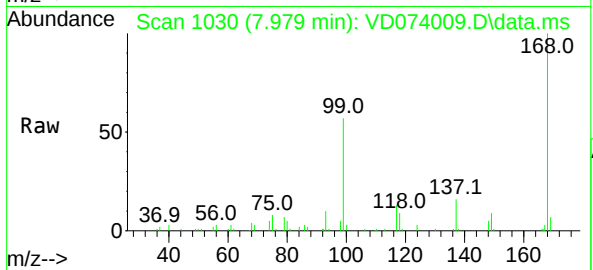
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 7632        |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 110         | 10.2  | 18.4 55.4#  |
| 77          | 0.0   | 24.6 36.8#  |



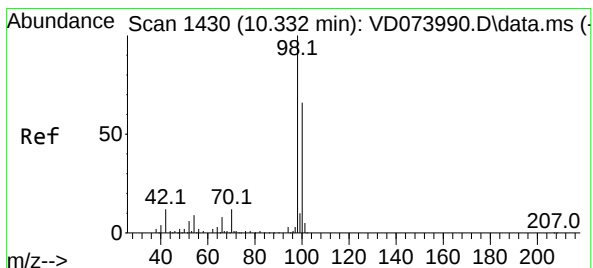
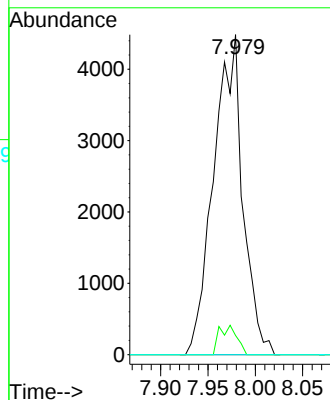
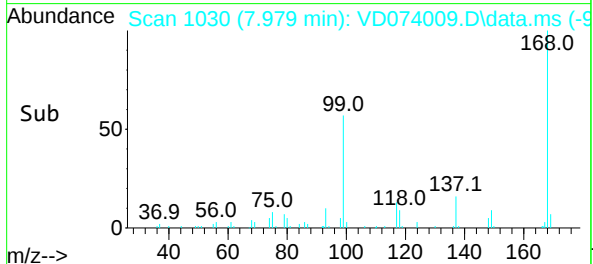


#38  
Carbon Tetrachloride  
Concen: 4.730 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.112 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Instrument :  
MSVOA\_D  
ClientSampleId :

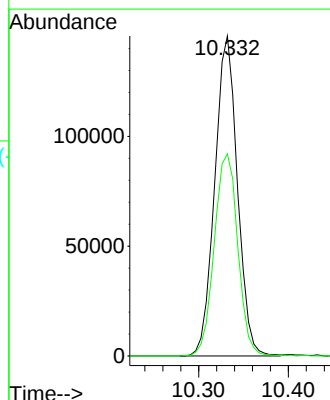
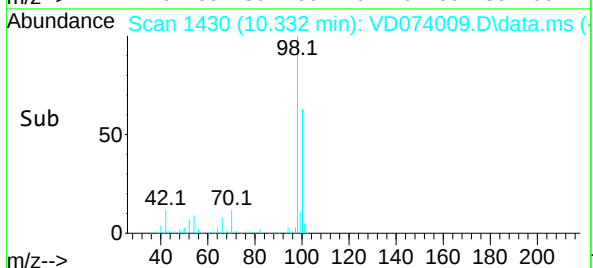
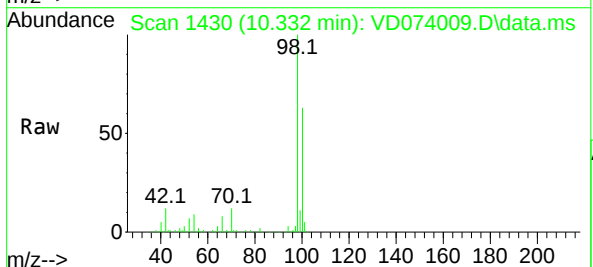


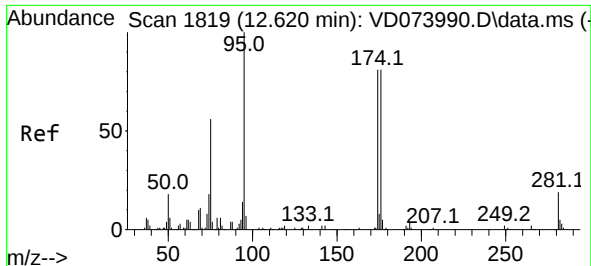
Tgt Ion:117 Resp: 9599  
Ion Ratio Lower Upper  
117 100  
119 6.0 75.4 113.2#  
121 0.0 25.2 37.8#



#50  
Toluene-d8  
Concen: 70.606 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Tgt Ion: 98 Resp: 255445  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.3 76.9

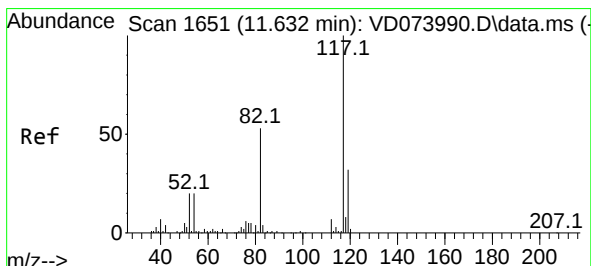
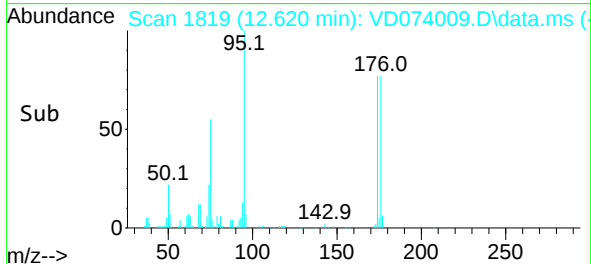
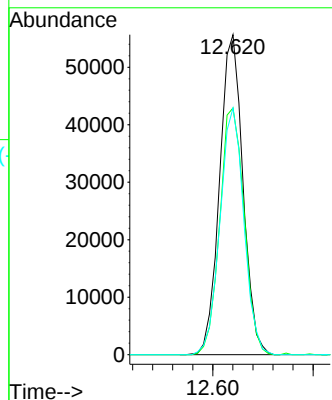
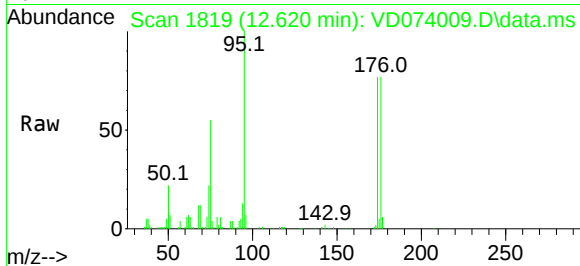




#62  
4-Bromofluorobenzene  
Concen: 57.726 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

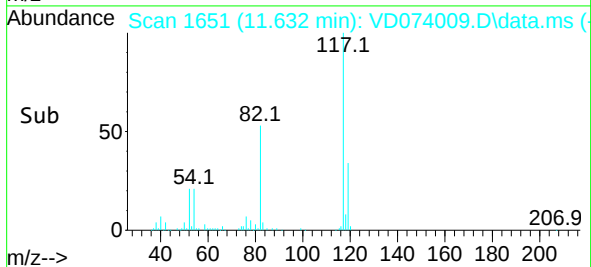
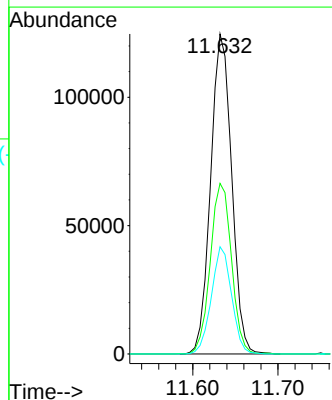
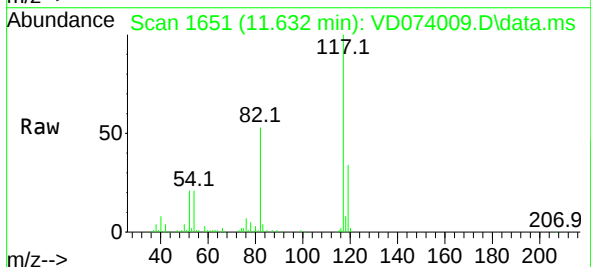
Instrument :  
MSVOA\_D  
ClientSampleId :

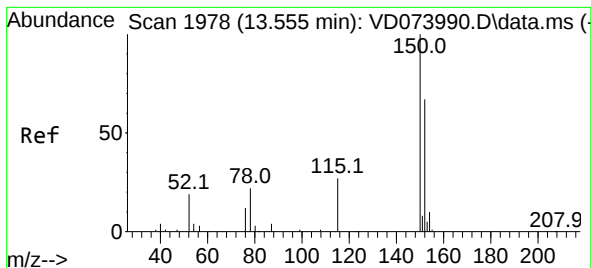
Tgt Ion: 95 Resp: 89757  
Ion Ratio Lower Upper  
95 100  
174 80.7 0.0 162.6  
176 78.5 0.0 160.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. 0.000 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Tgt Ion: 117 Resp: 214137  
Ion Ratio Lower Upper  
117 100  
82 53.3 42.7 64.1  
119 33.5 25.8 38.8

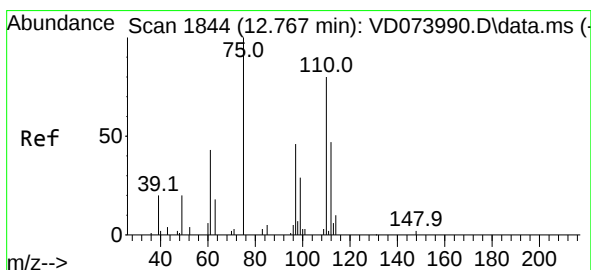
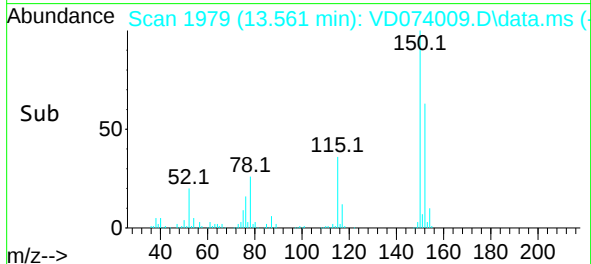
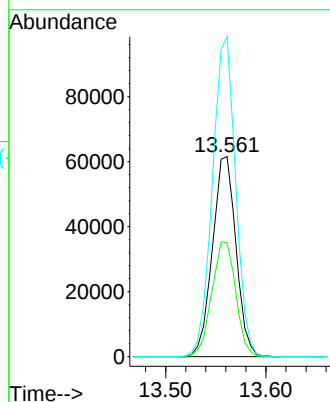
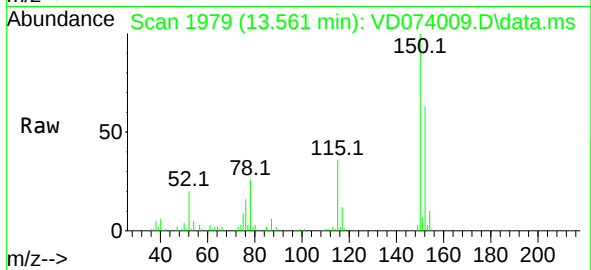




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

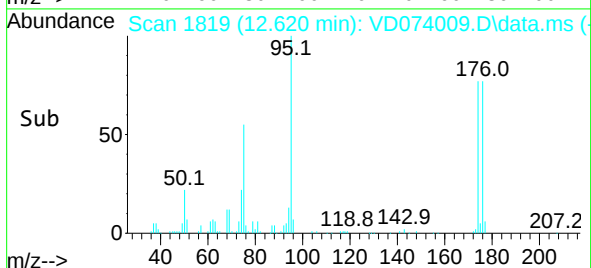
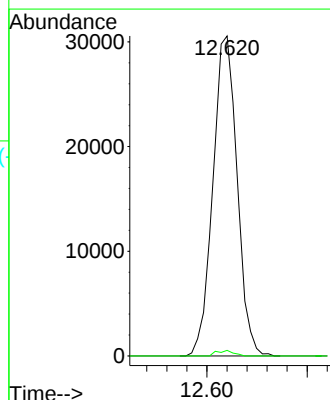
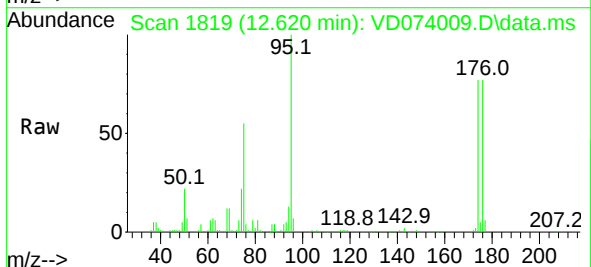
Instrument :  
MSVOA\_D  
ClientSampleId :

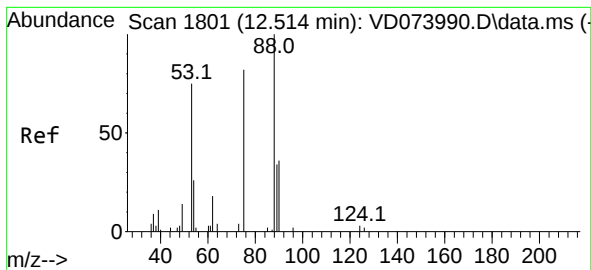
Tgt Ion:152 Resp: 100381  
Ion Ratio Lower Upper  
152 100  
115 58.3 29.9 89.8  
150 157.3 0.0 342.8



#76  
1,2,3-Trichloropropane  
Concen: 67.370 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

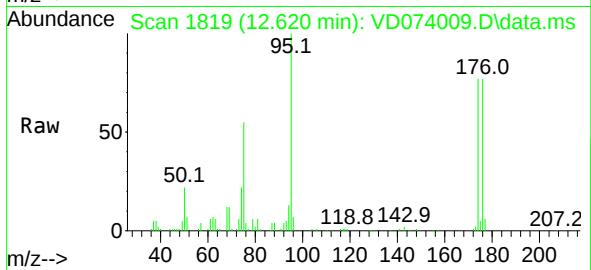
Tgt Ion: 75 Resp: 51258  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 144.797 ug/l  
RT: 12.620 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VD074009.D  
Acq: 10 Aug 2022 01:55

Instrument :  
MSVOA\_D  
ClientSampleId :



| Tgt Ion: | 75    | Resp: | 51258  |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 71.3  | 106.9# |
| 89       | 0.1   | 38.3  | 57.5#  |

