

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081222\  
 Data File : VD074068.D  
 Acq On : 12 Aug 2022 17:47  
 Operator : VA/SY  
 Sample : N4153-01  
 Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 12 23:48:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081022S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 10 14:55:58 2022  
 Response via : Initial Calibration

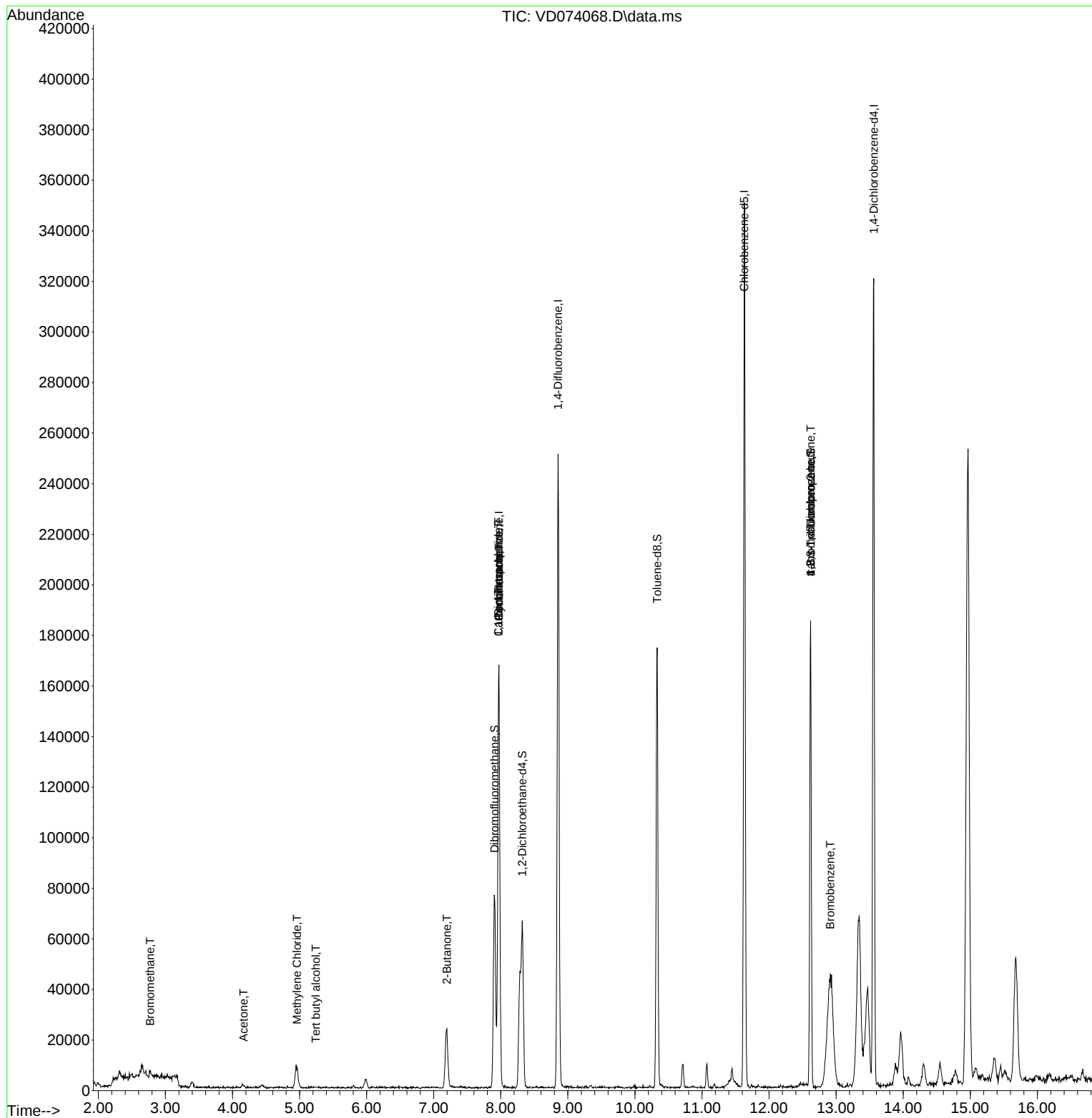
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 115591   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855  | 114   | 209981   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 194302   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 86008    | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.320  | 65    | 47689    | 52.717    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 105.440% |          |
| 35) Dibromofluoromethane      | 7.908  | 113   | 54686    | 39.211    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 78.420%  |          |
| 50) Toluene-d8                | 10.332 | 98    | 118804   | 30.334    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 60.660%  |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 55650    | 32.447    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 64.900%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 884      | Below Cal |            | 98       |
| 3) Chloromethane              | 2.220  | 50    | 796      | Below Cal | #          | 86       |
| 5) Bromomethane               | 2.773  | 94    | 1755     | 1.035     | ug/l #     | 76       |
| 11) Tert butyl alcohol        | 5.244  | 59    | 141      | 9.700     | ug/l #     | 74       |
| 16) Acetone                   | 4.167  | 43    | 2017     | 10.905    | ug/l #     | 83       |
| 18) Methyl Acetate            | 4.491  | 43    | 92       | Below Cal | #          | 49       |
| 20) Methylene Chloride        | 4.961  | 84    | 6471     | 2.408     | ug/l #     | 94       |
| 25) 2-Butanone                | 7.197  | 43    | 1033     | 3.571     | ug/l #     | 46       |
| 31) Cyclohexane               | 7.973  | 56    | 3145     | 1.550     | ug/l #     | 54       |
| 36) 1,1-Dichloropropene       | 7.967  | 75    | 10248    | 4.829     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.967  | 117   | 12910    | 5.396     | ug/l #     | 17       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 30620    | 38.993    | ug/l #     | 100      |
| 77) Bromobenzene              | 12.914 | 156   | 61204    | 42.856    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 30620    | 104.072   | ug/l #     | 13       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.526 | 75    | 92       | Below Cal | #          | 1        |
| -----                         |        |       |          |           |            |          |

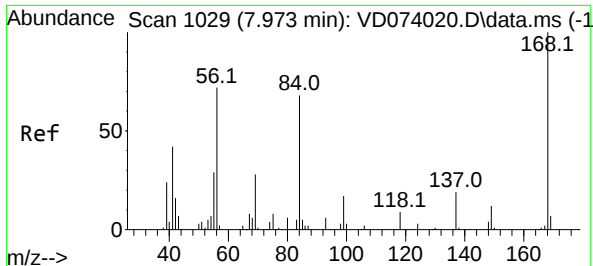
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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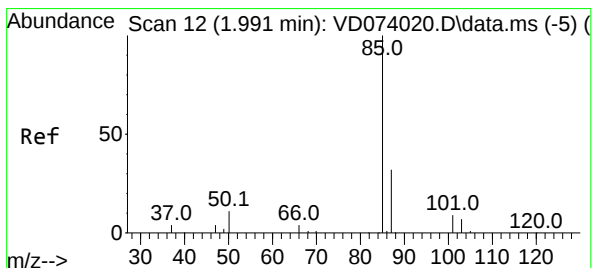
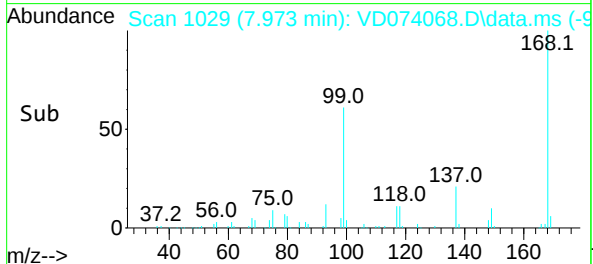
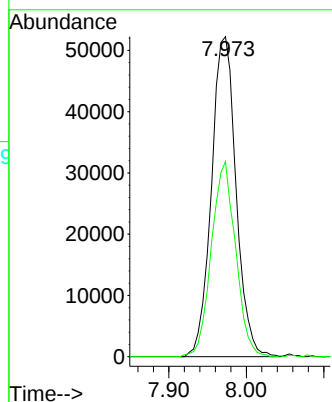
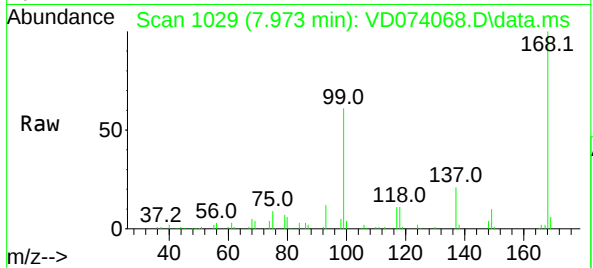




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

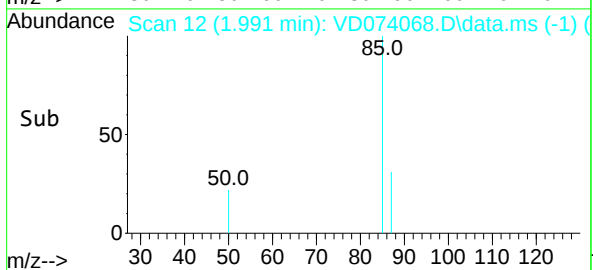
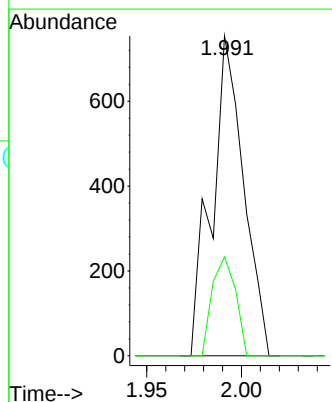
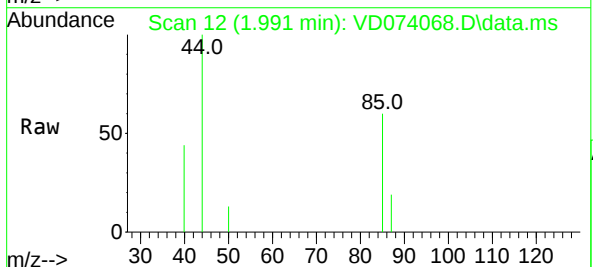
Instrument :  
MSVOA\_D  
ClientSampleId :

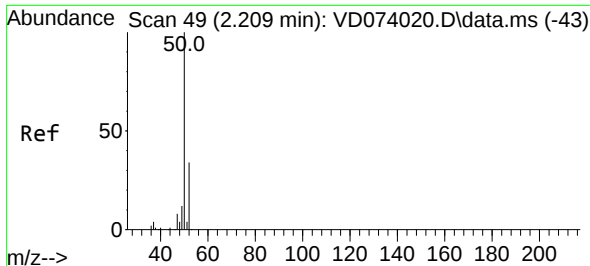
Tgt Ion:168 Resp: 115591  
Ion Ratio Lower Upper  
168 100  
99 61.0 48.3 72.5



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.991 min Scan# 12  
Delta R.T. 0.000 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

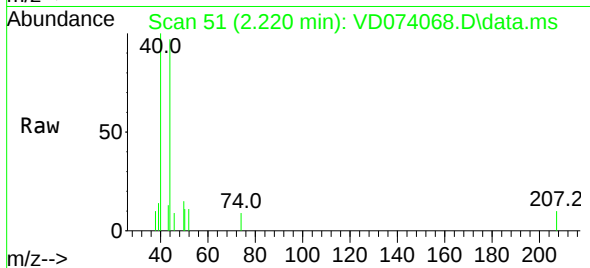
Tgt Ion: 85 Resp: 884  
Ion Ratio Lower Upper  
85 100  
87 30.9 16.0 47.9



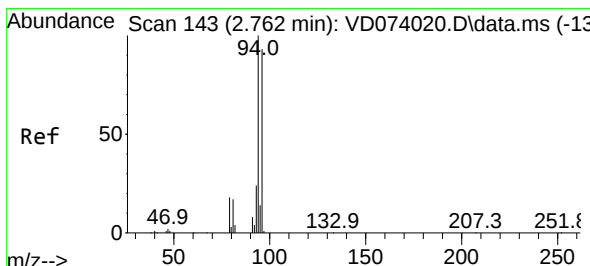
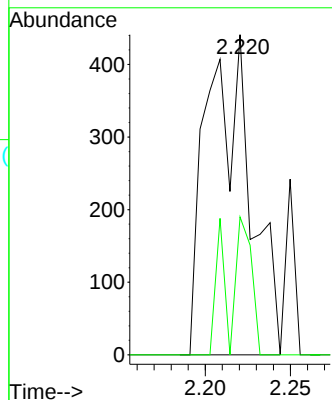
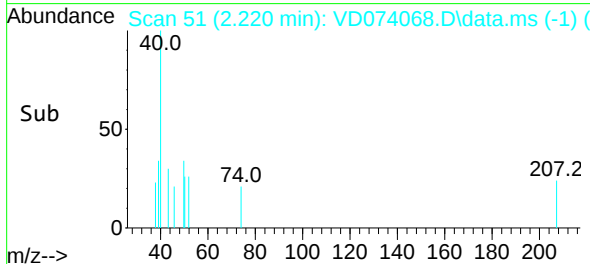


#3  
Chloromethane  
Concen: Below Cal  
RT: 2.220 min Scan# 51  
Delta R.T. 0.011 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

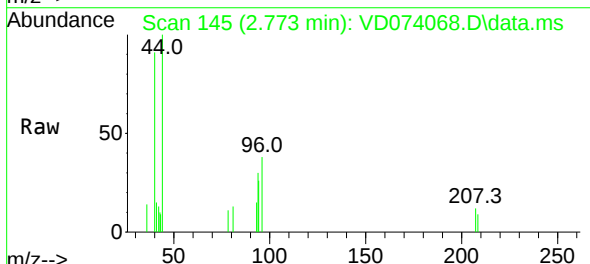
Instrument :  
MSVOA\_D  
ClientSampleId :



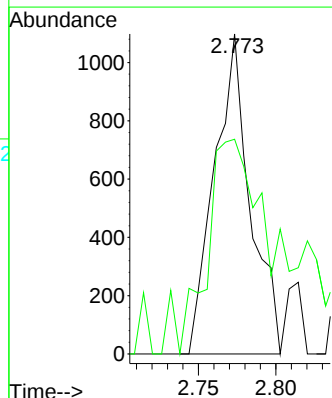
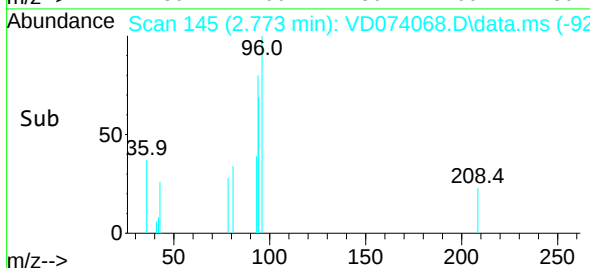
Tgt Ion: 50 Resp: 796  
Ion Ratio Lower Upper  
50 100  
52 43.1 28.1 42.1#

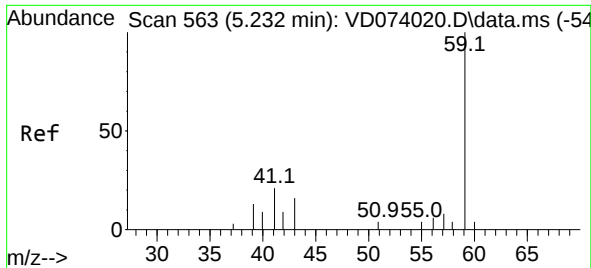


#5  
Bromomethane  
Concen: 1.035 ug/l  
RT: 2.773 min Scan# 145  
Delta R.T. 0.011 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47



Tgt Ion: 94 Resp: 1755  
Ion Ratio Lower Upper  
94 100  
96 67.1 72.0 108.0#





#11

Tert butyl alcohol

Concen: 9.700 ug/l

RT: 5.244 min Scan# 5

Delta R.T. 0.012 min

Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

Instrument :

MSVOA\_D

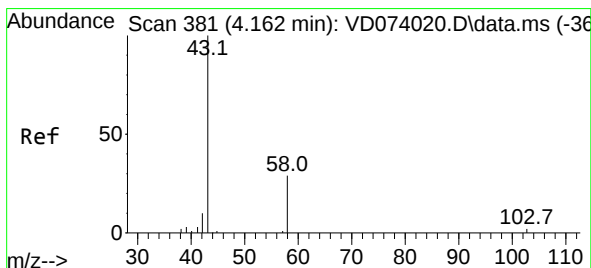
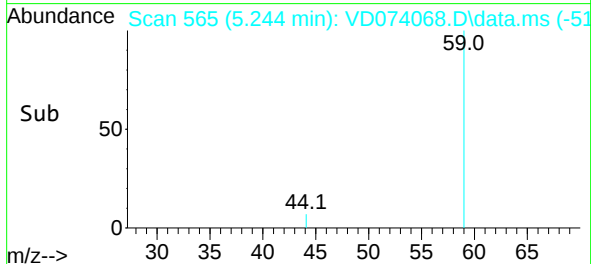
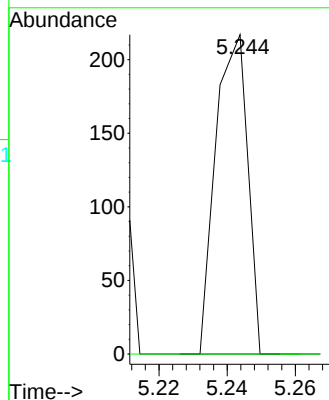
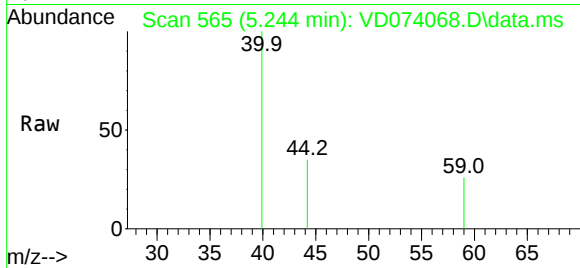
ClientSampleId :

Tgt Ion: 59 Resp: 141

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#16

Acetone

Concen: 10.905 ug/l

RT: 4.167 min Scan# 382

Delta R.T. 0.005 min

Lab File: VD074068.D

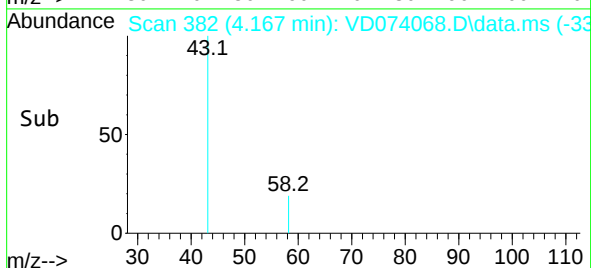
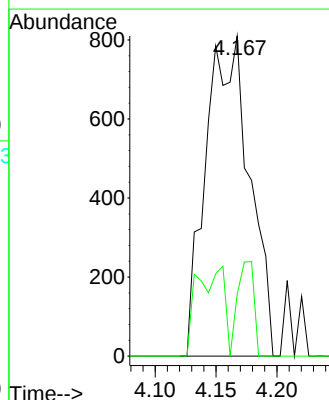
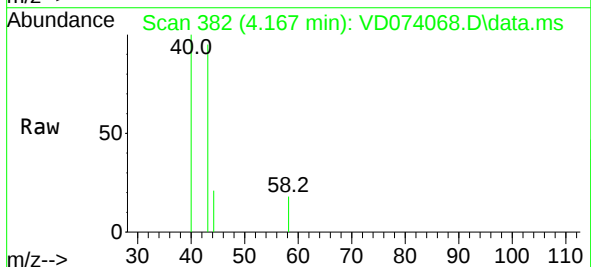
Acq: 12 Aug 2022 17:47

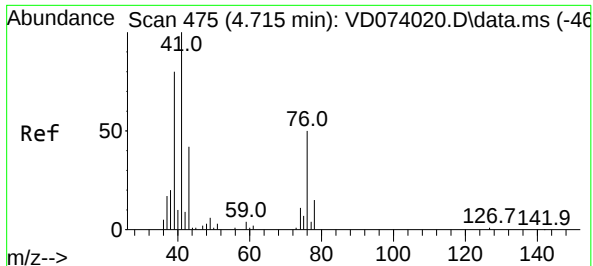
Tgt Ion: 43 Resp: 2017

Ion Ratio Lower Upper

43 100

58 19.3 22.8 34.2#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.491 min Scan# 41

Delta R.T. -0.224 min

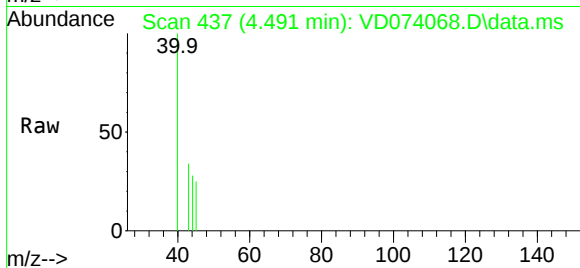
Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

Instrument :

MSVOA\_D

ClientSampleId :

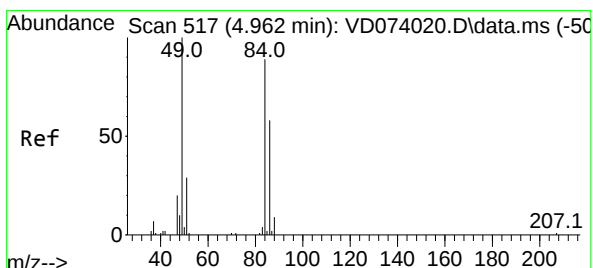
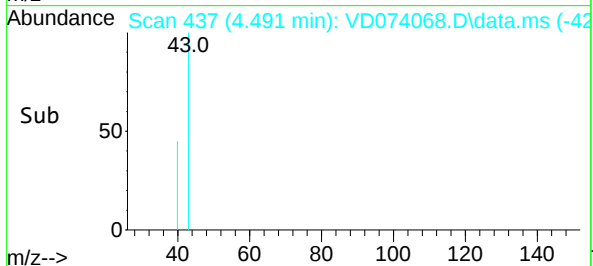
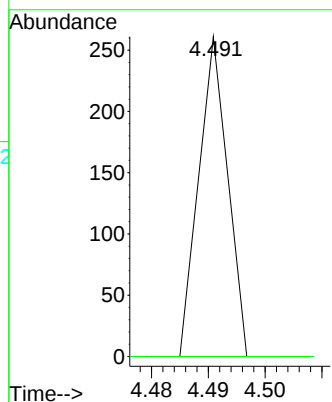


Tgt Ion: 43 Resp: 92

Ion Ratio Lower Upper

43 100

74 0.0 21.0 31.4#



#20

Methylene Chloride

Concen: 2.408 ug/l

RT: 4.961 min Scan# 517

Delta R.T. -0.001 min

Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

Tgt Ion: 84 Resp: 6471

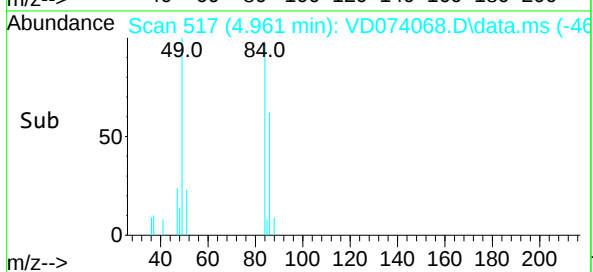
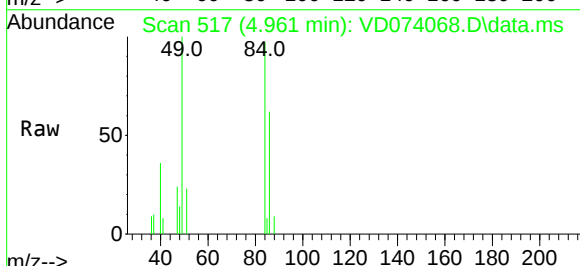
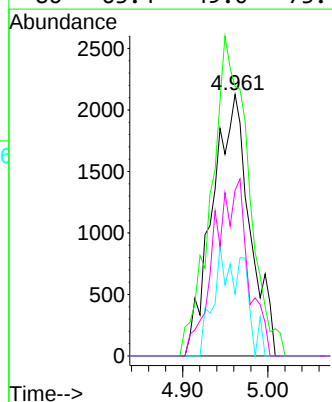
Ion Ratio Lower Upper

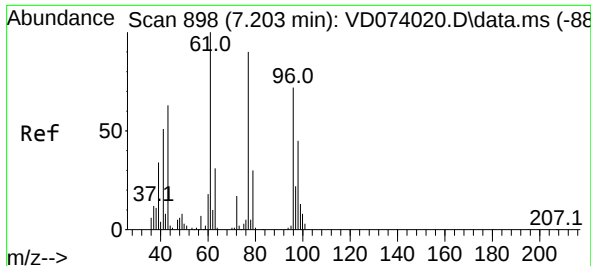
84 100

49 103.0 85.8 128.6

51 23.8 28.0 42.0#

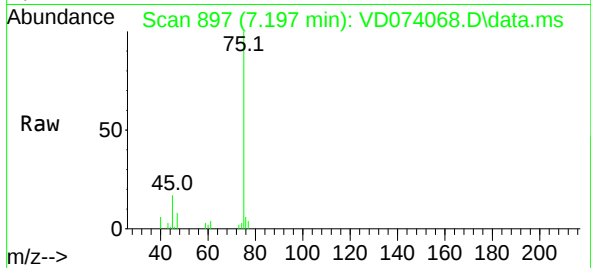
86 63.4 49.0 73.4



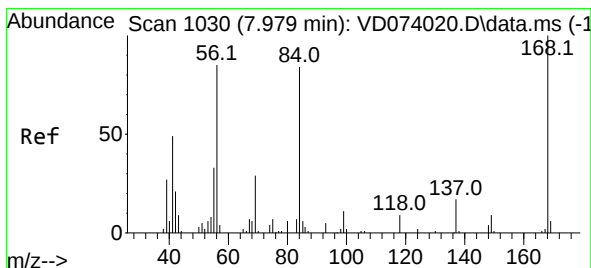
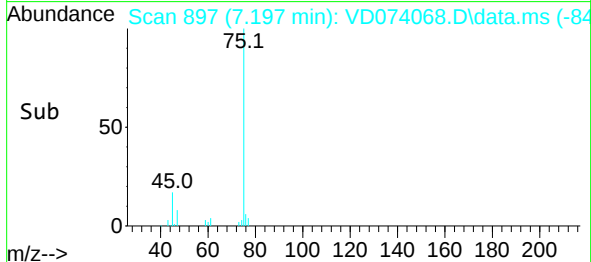
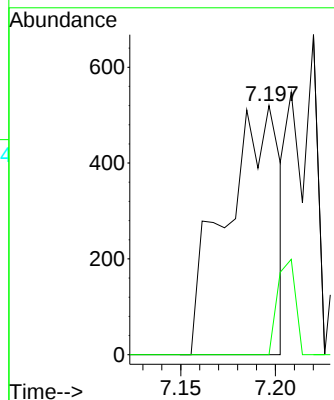


#25  
2-Butanone  
Concen: 3.571 ug/l  
RT: 7.197 min Scan# 89  
Delta R.T. -0.006 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

Instrument :  
MSVOA\_D  
ClientSampleId :

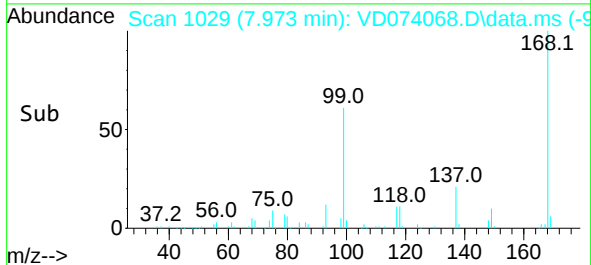
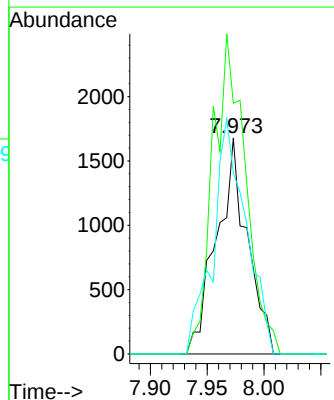
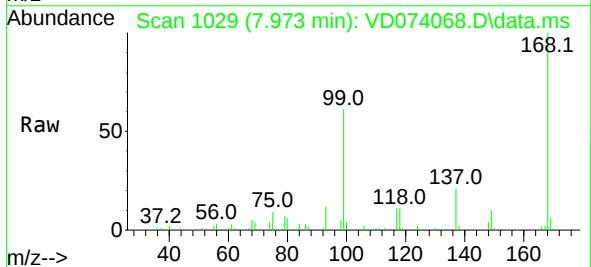


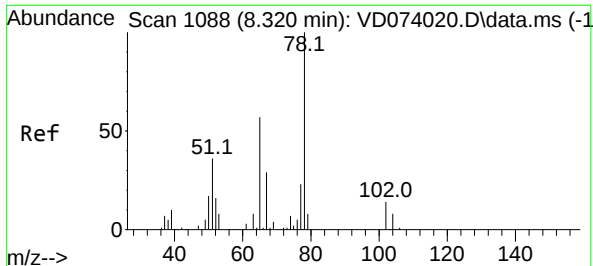
Tgt Ion: 43 Resp: 1033  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.0 34.6#



#31  
Cyclohexane  
Concen: 1.550 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

Tgt Ion: 56 Resp: 3145  
Ion Ratio Lower Upper  
56 100  
69 116.2 27.9 41.9#  
84 83.9 75.8 113.6





#33

1,2-Dichloroethane-d4

Concen: 52.717 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

Instrument :

MSVOA\_D

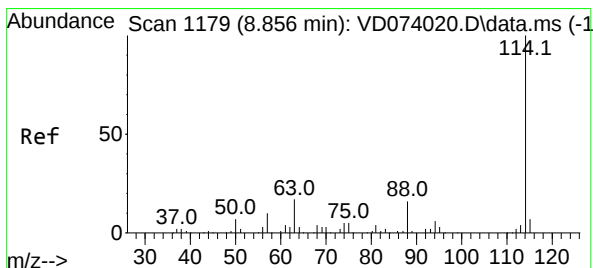
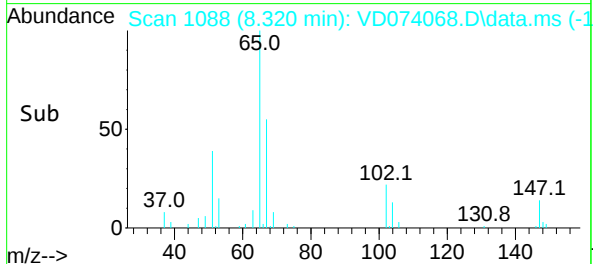
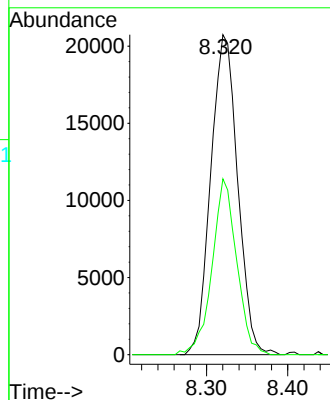
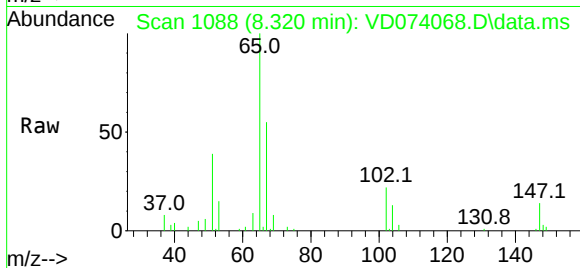
ClientSampleId :

Tgt Ion: 65 Resp: 47689

Ion Ratio Lower Upper

65 100

67 50.4 0.0 113.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. -0.000 min

Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

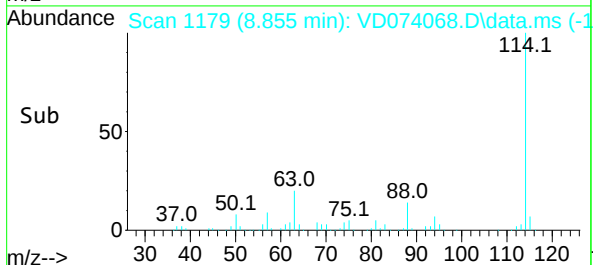
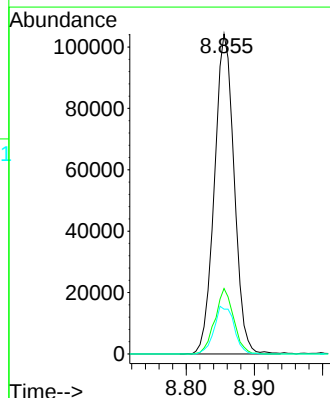
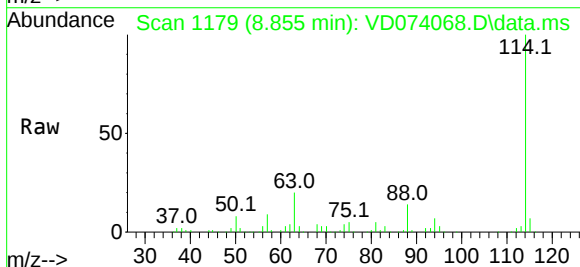
Tgt Ion: 114 Resp: 209981

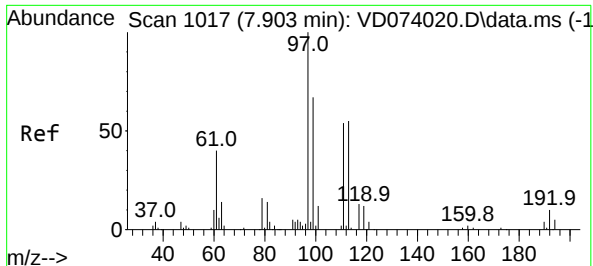
Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.0

88 14.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 39.211 ug/l

RT: 7.908 min Scan# 1017

Delta R.T. 0.005 min

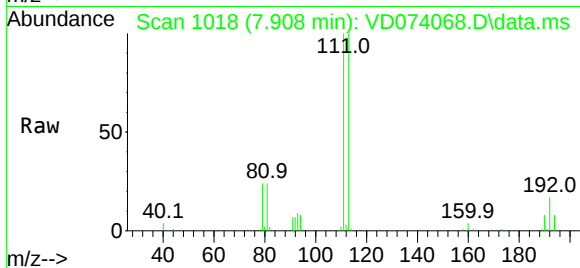
Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

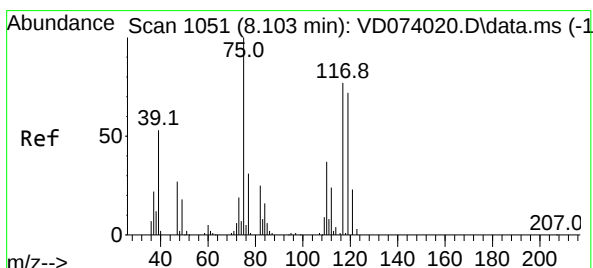
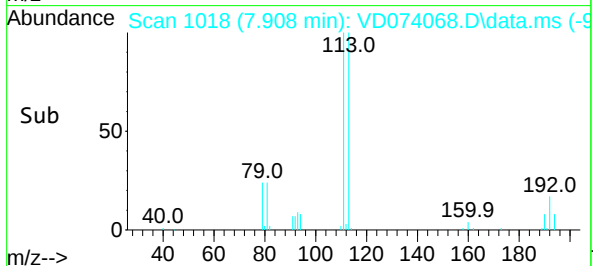
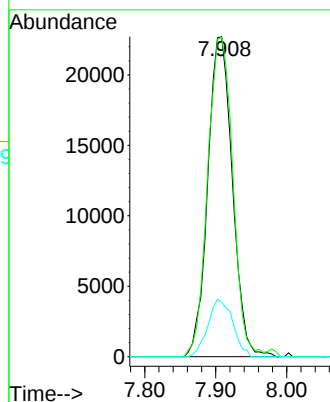
Instrument :

MSVOA\_D

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 54686 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 101.8 | 80.0  | 120.0 |
| 192       | 18.1  | 14.2  | 21.4  |



#36

1,1-Dichloropropene

Concen: 4.829 ug/l

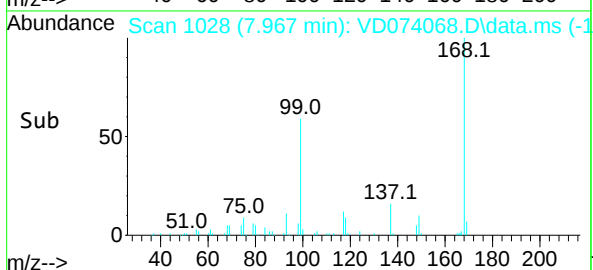
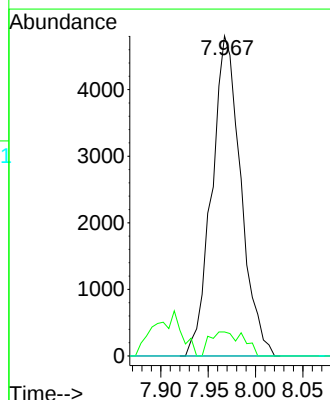
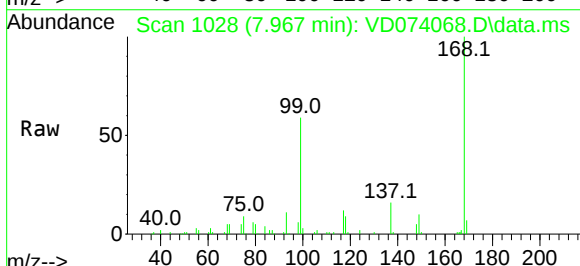
RT: 7.967 min Scan# 1028

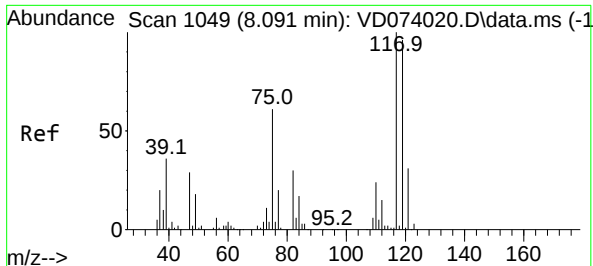
Delta R.T. -0.136 min

Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

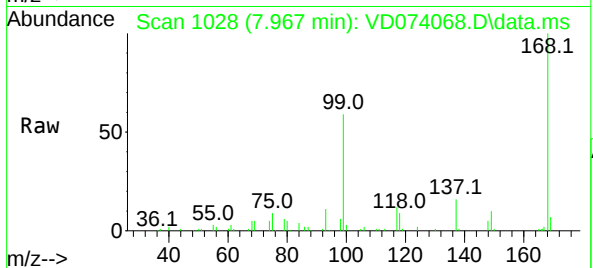
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 10248 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.9   | 18.4  | 55.4# |
| 77        | 0.0   | 24.6  | 36.8# |



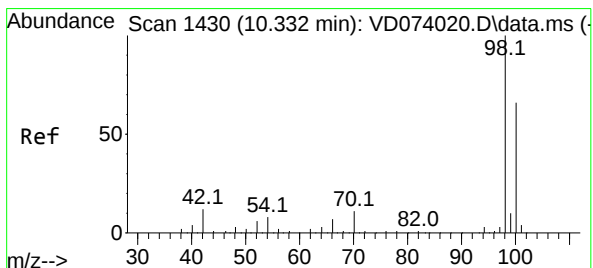
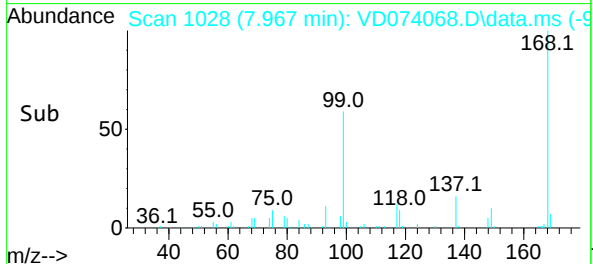
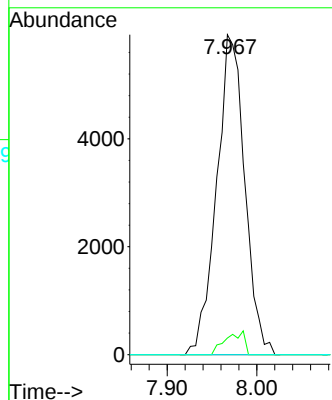


#38  
Carbon Tetrachloride  
Concen: 5.396 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.124 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

Instrument :  
MSVOA\_D  
ClientSampleId :

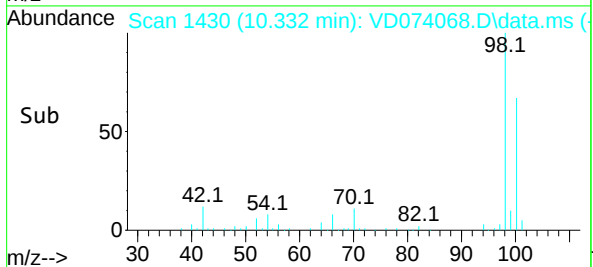
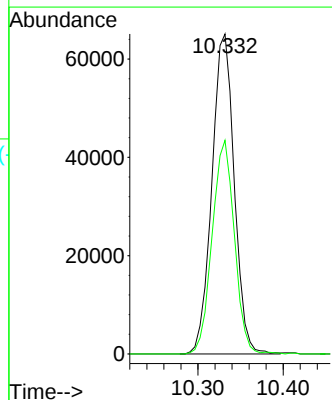
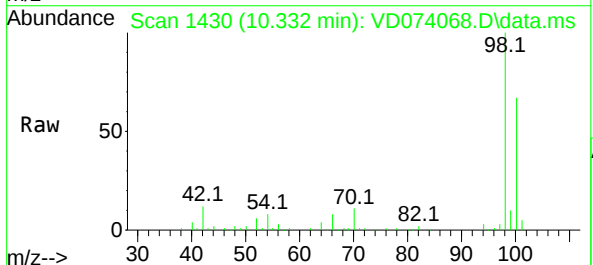


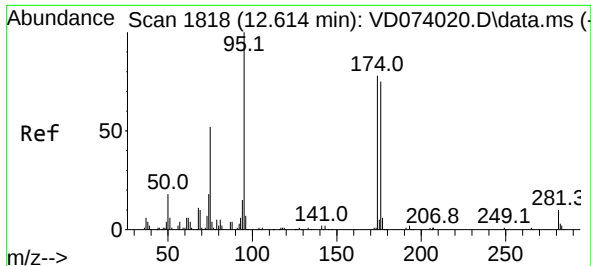
Tgt Ion:117 Resp: 12910  
Ion Ratio Lower Upper  
117 100  
119 5.2 75.4 113.2#  
121 0.0 25.2 37.8#



#50  
Toluene-d8  
Concen: 30.334 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

Tgt Ion: 98 Resp: 118804  
Ion Ratio Lower Upper  
98 100  
100 66.4 51.3 76.9

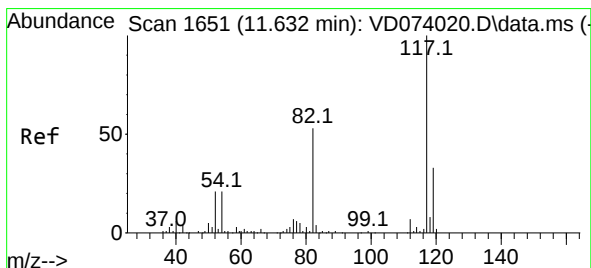
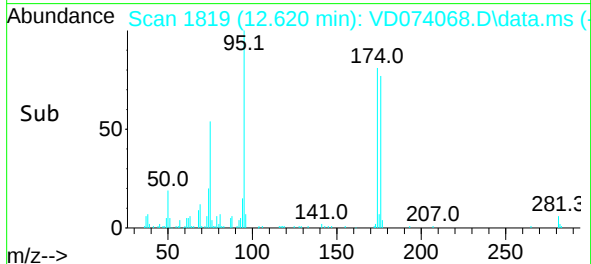
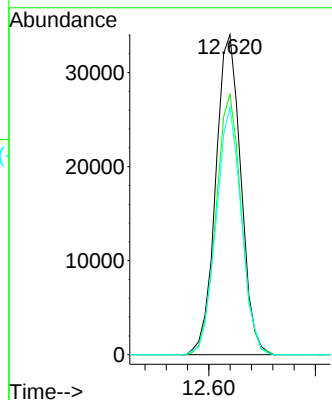
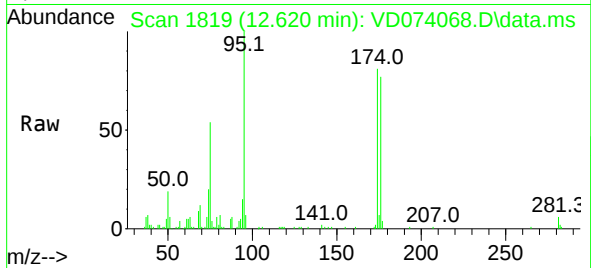




#62  
4-Bromofluorobenzene  
Concen: 32.447 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

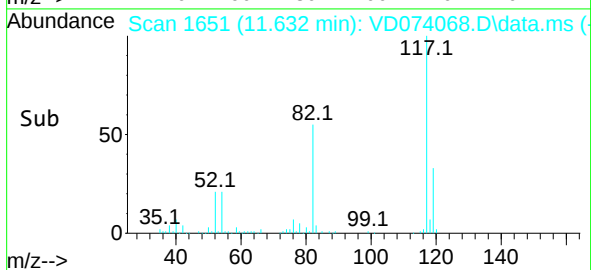
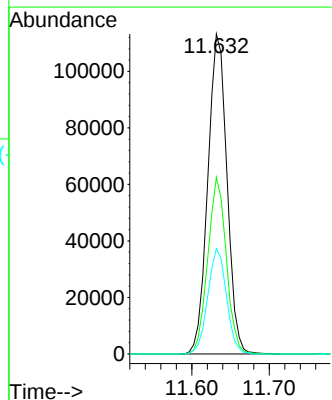
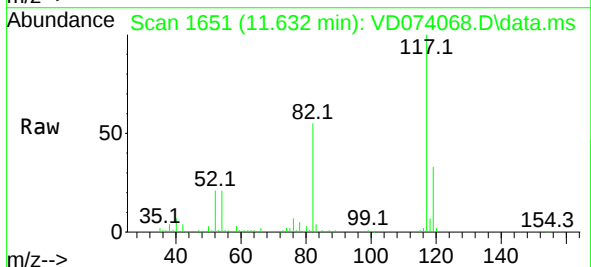
Instrument :  
MSVOA\_D  
ClientSampleId :

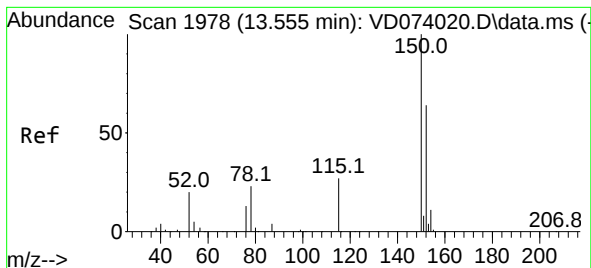
Tgt Ion: 95 Resp: 55650  
Ion Ratio Lower Upper  
95 100  
174 81.9 0.0 162.6  
176 77.6 0.0 160.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

Tgt Ion: 117 Resp: 194302  
Ion Ratio Lower Upper  
117 100  
82 55.2 42.7 64.1  
119 32.9 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1978

Delta R.T. 0.006 min

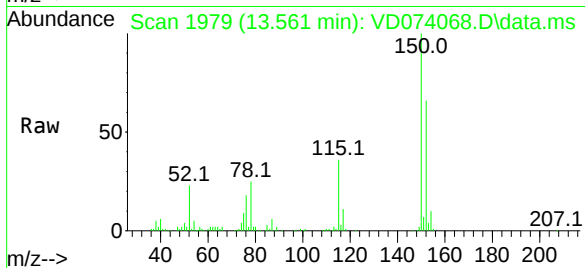
Lab File: VD074068.D

Acq: 12 Aug 2022 17:47

Instrument :

MSVOA\_D

ClientSampleId :



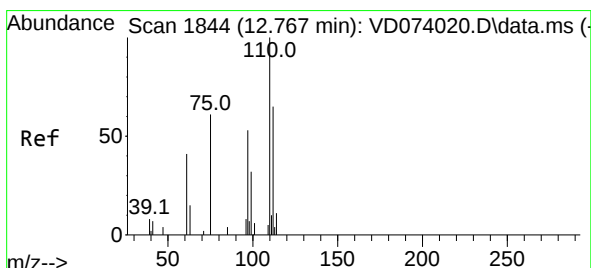
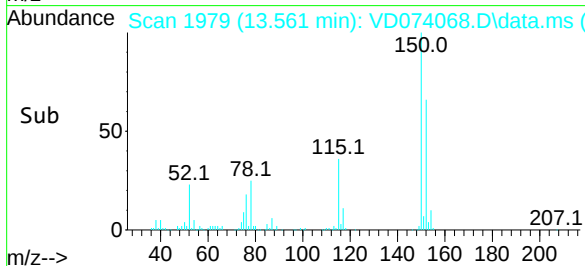
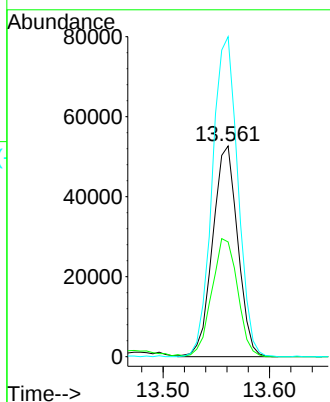
Tgt Ion:152 Resp: 86008

Ion Ratio Lower Upper

152 100

115 57.6 29.9 89.8

150 154.9 0.0 342.8



#76

1,2,3-Trichloropropane

Concen: 38.993 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.147 min

Lab File: VD074068.D

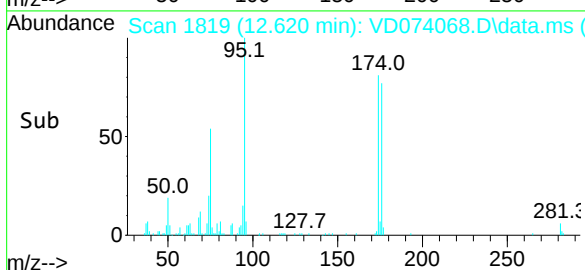
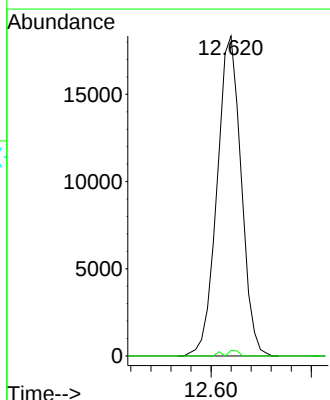
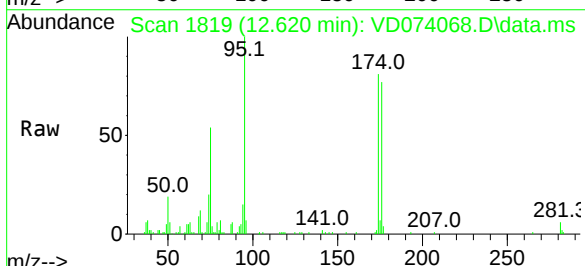
Acq: 12 Aug 2022 17:47

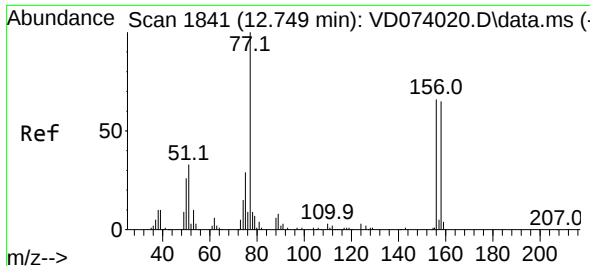
Tgt Ion: 75 Resp: 30620

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

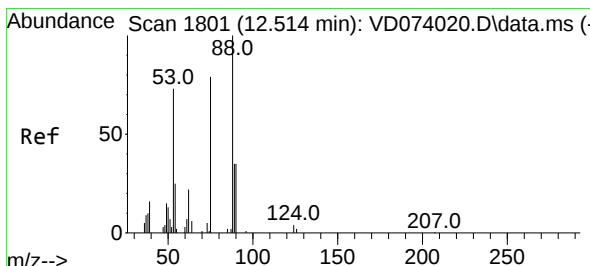
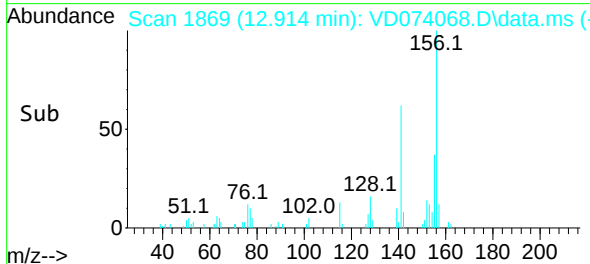
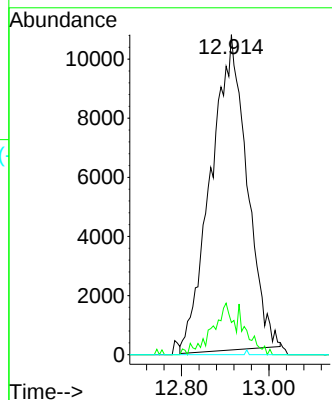
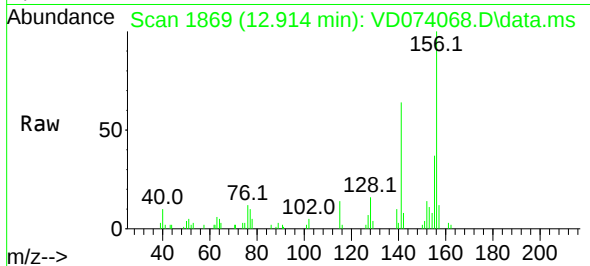




#77  
Bromobenzene  
Concen: 42.856 ug/l  
RT: 12.914 min Scan# 1869  
Delta R.T. 0.165 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

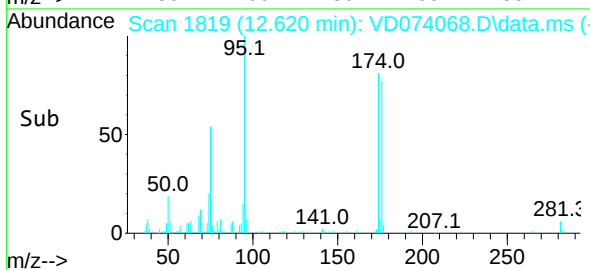
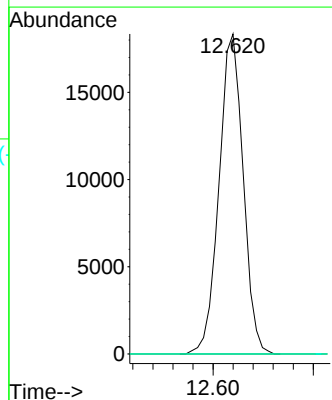
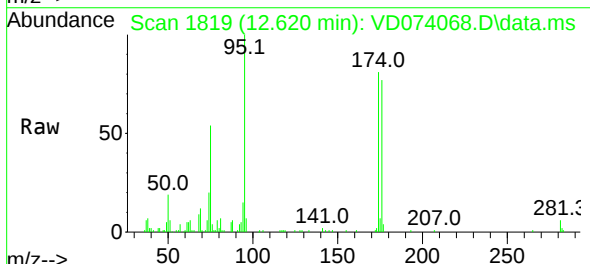
Instrument :  
MSVOA\_D  
ClientSampleId :

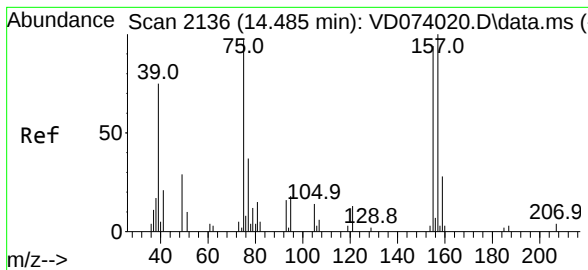
Tgt Ion:156 Resp: 61204  
Ion Ratio Lower Upper  
156 100  
77 6.9 87.5 262.4#  
158 0.0 49.6 149.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 104.072 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD074068.D  
Acq: 12 Aug 2022 17:47

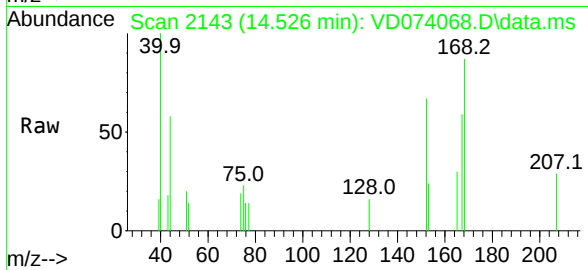
Tgt Ion: 75 Resp: 30620  
Ion Ratio Lower Upper  
75 100  
53 0.0 71.3 106.9#  
89 0.0 38.3 57.5#





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: Below Cal  
 RT: 14.526 min Scan# 21  
 Delta R.T. 0.041 min  
 Lab File: VD074068.D  
 Acq: 12 Aug 2022 17:47

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 92  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 41.5 124.6#  
 157 0.0 55.2 165.6#

