

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041822\  
 Data File : VD072599.D  
 Acq On : 18 Apr 2022 15:58  
 Operator : VA/SY  
 Sample : N2426-05  
 Misc : 4.89G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PX-5

Quant Time: Apr 19 02:51:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.973  | 168  | 332363   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 657694   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 641707   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 287939   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 224126   | 55.745   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 111.480% |
| 35) Dibromofluoromethane    | 7.909  | 113   | 227224   | 44.456   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 88.920%  |
| 50) Toluene-d8              | 10.332 | 98    | 778568   | 43.821   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 87.640%  |
| 62) 4-Bromofluorobenzene    | 12.620 | 95    | 278321   | 40.111   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 80.220%  |

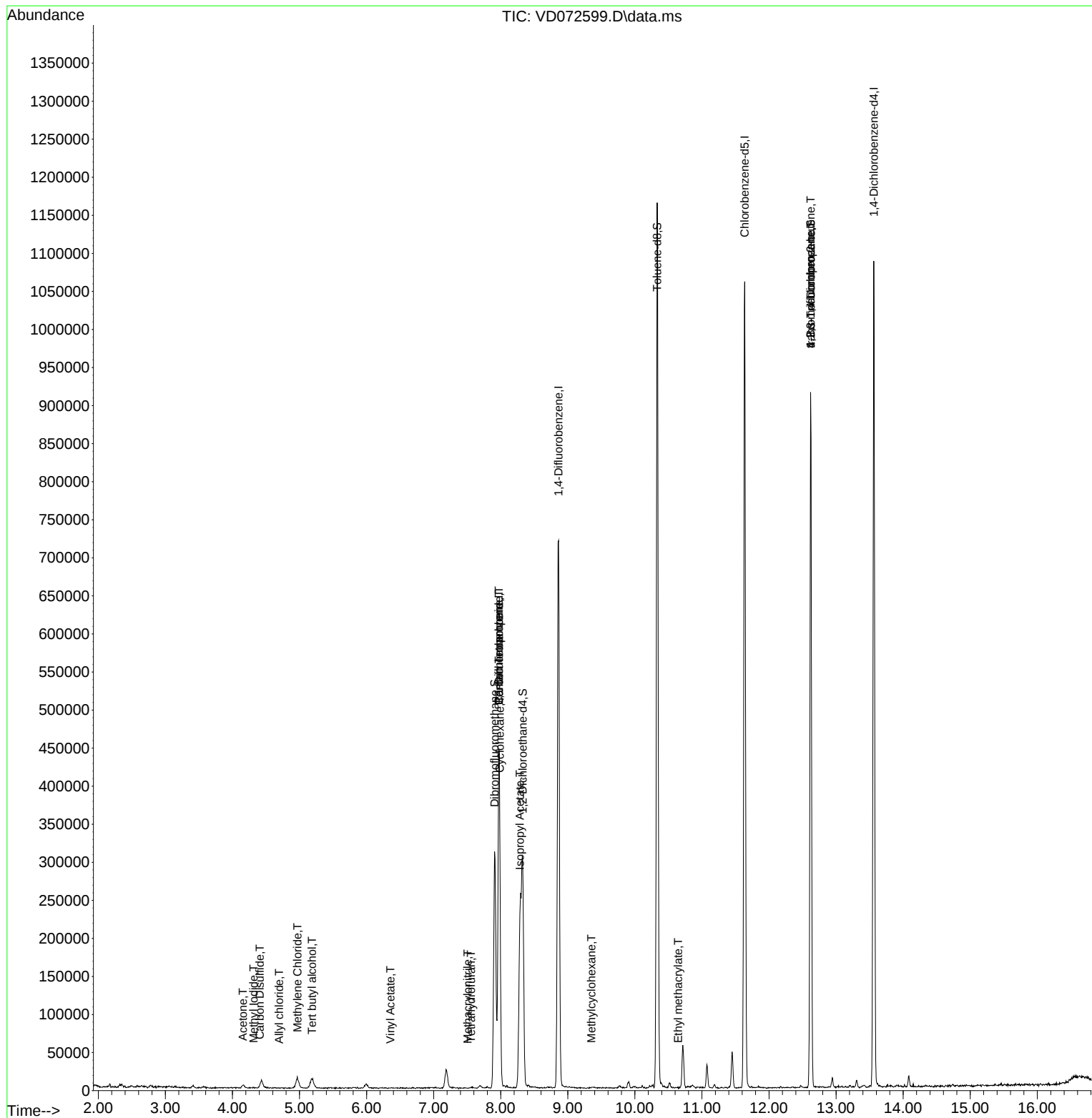
| Target Compounds              |        |     |        |         | Qvalue |     |
|-------------------------------|--------|-----|--------|---------|--------|-----|
| 10) Methyl Iodide             | 4.315  | 142 | 677    | 3.907   | ug/l # | 67  |
| 11) Tert butyl alcohol        | 5.185  | 59  | 12597  | 59.329  | ug/l # | 75  |
| 14) Allyl chloride            | 4.697  | 41  | 171    | 1.159   | ug/l # | 22  |
| 16) Acetone                   | 4.156  | 43  | 7453   | 9.941   | ug/l   | 90  |
| 17) Carbon Disulfide          | 4.409  | 76  | 2074   | 3.923   | ug/l # | 74  |
| 20) Methylene Chloride        | 4.968  | 84  | 10606  | 2.376   | ug/l # | 65  |
| 23) Vinyl Acetate             | 6.356  | 43  | 147    | 6.311   | ug/l # | 75  |
| 29) Tetrahydrofuran           | 7.556  | 42  | 776    | 1.240   | ug/l # | 76  |
| 31) Cyclohexane               | 7.985  | 56  | 6867   | 1.306   | ug/l # | 23  |
| 36) 1,1-Dichloropropene       | 7.973  | 75  | 27475  | 5.236   | ug/l # | 53  |
| 38) Carbon Tetrachloride      | 7.973  | 117 | 35030  | 4.975   | ug/l # | 16  |
| 39) Methylcyclohexane         | 9.350  | 83  | 96     | 2.889   | ug/l # | 29  |
| 41) Methacrylonitrile         | 7.509  | 41  | 78     | 1.706   | ug/l # | 27  |
| 43) Isopropyl Acetate         | 8.285  | 43  | 5680   | 1.093   | ug/l # | 1   |
| 56) Ethyl methacrylate        | 10.644 | 69  | 171    | 1.225   | ug/l # | 52  |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75  | 141181 | 44.956  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75  | 141181 | 110.313 | ug/l # | 7   |

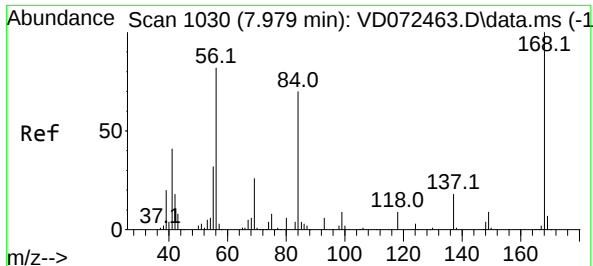
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041822\  
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MSVOA\_D  
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PX-5

Quant Time: Apr 19 02:51:10 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 30 02:44:36 2022  
Response via : Initial Calibration

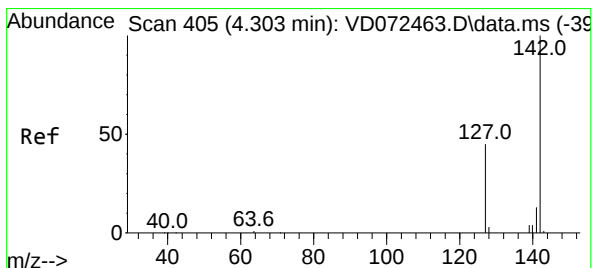
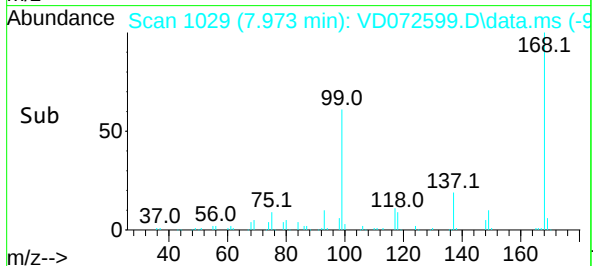
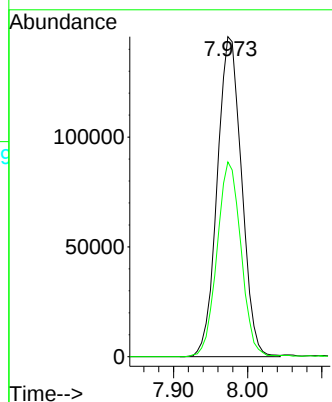
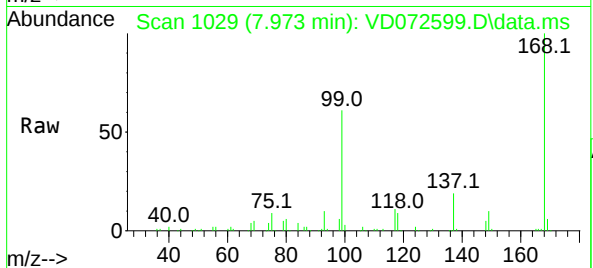




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

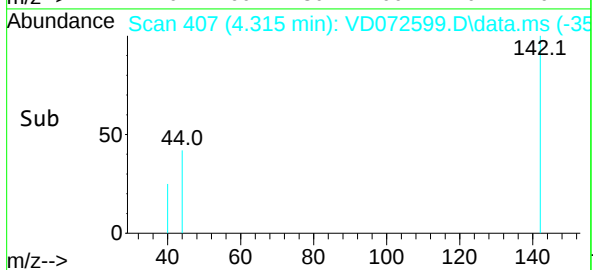
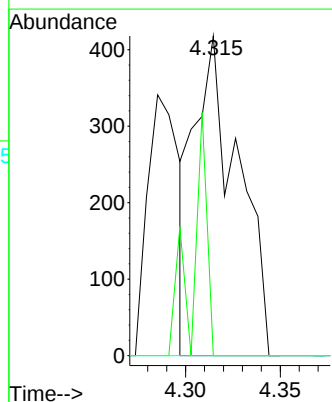
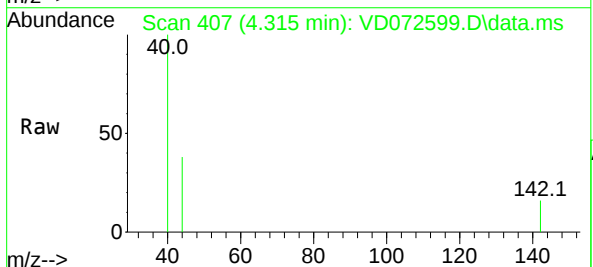
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

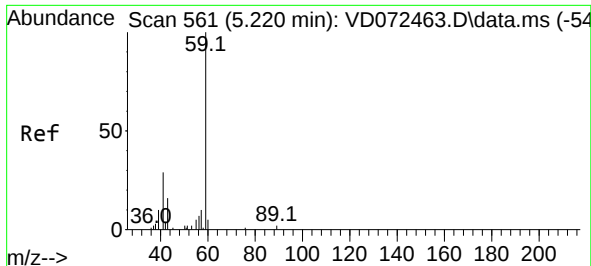
Tgt Ion:168 Resp: 332363  
Ion Ratio Lower Upper  
168 100  
99 60.9 49.8 74.6



#10  
Methyl Iodide  
Concen: 3.907 ug/l  
RT: 4.315 min Scan# 407  
Delta R.T. 0.012 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

Tgt Ion:142 Resp: 677  
Ion Ratio Lower Upper  
142 100  
127 25.4 37.3 55.9#  
141 0.0 11.7 17.5#

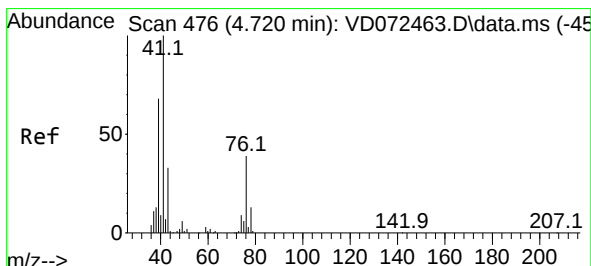
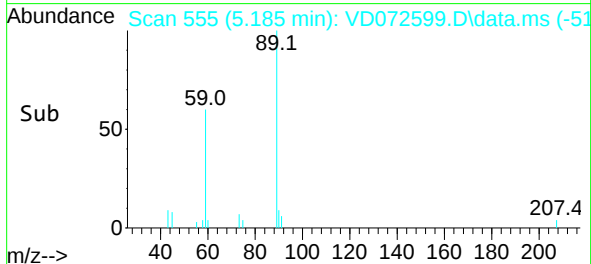
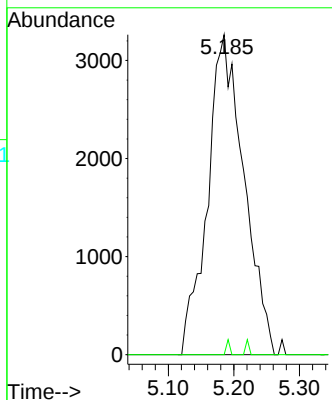
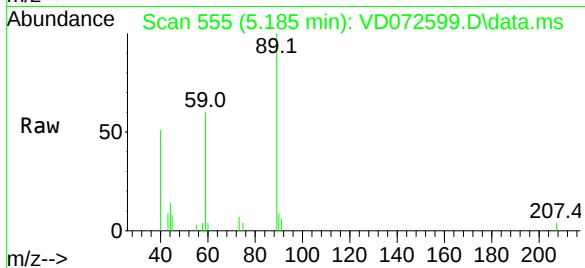




#11  
Tert butyl alcohol  
Concen: 59.329 ug/l  
RT: 5.185 min Scan# 511  
Delta R.T. -0.035 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

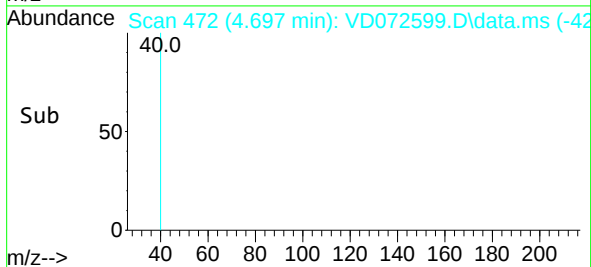
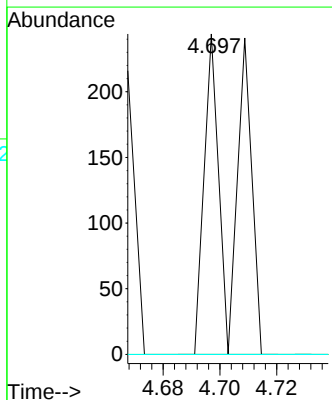
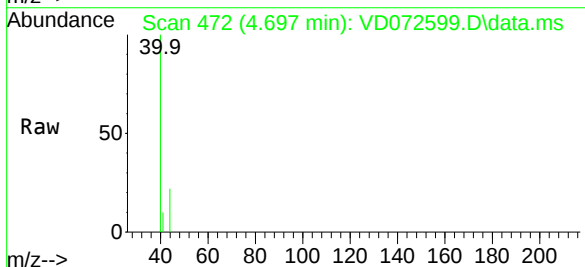
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

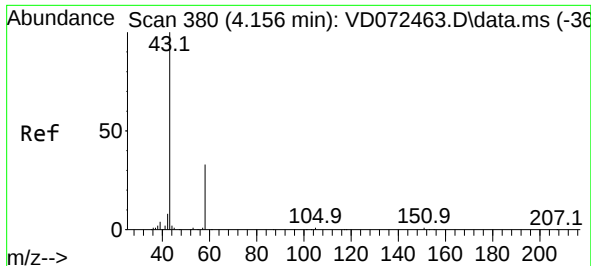
Tgt Ion: 59 Resp: 12597  
Ion Ratio Lower Upper  
59 100  
57 0.4 7.8 11.6#



#14  
Allyl chloride  
Concen: 1.159 ug/l  
RT: 4.697 min Scan# 472  
Delta R.T. -0.023 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

Tgt Ion: 41 Resp: 171  
Ion Ratio Lower Upper  
41 100  
39 0.0 59.3 88.9#  
76 0.0 25.7 38.5#

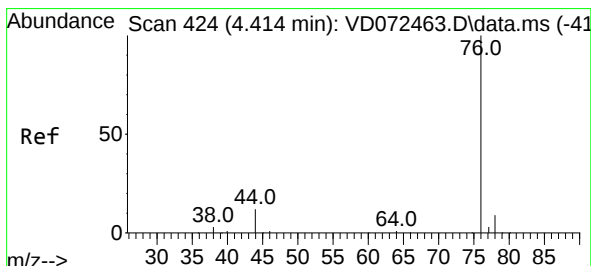
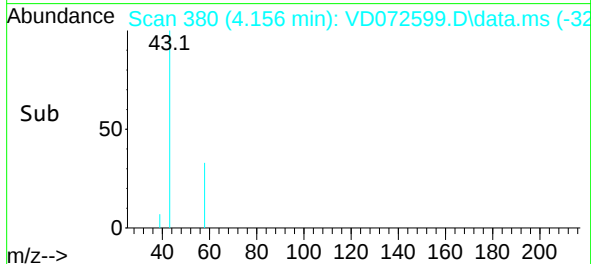
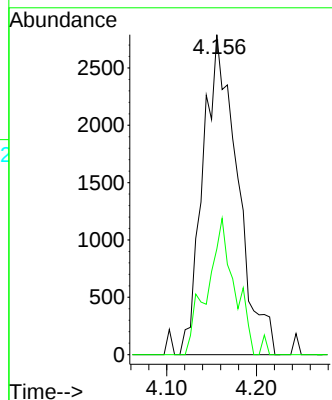
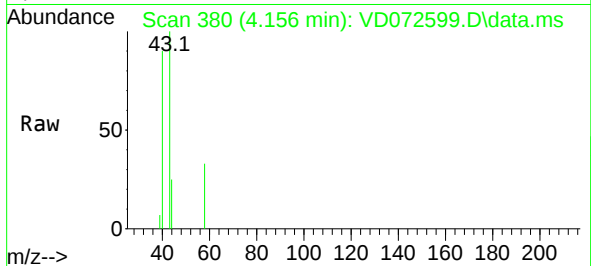




#16  
Acetone  
Concen: 9.941 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. 0.000 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

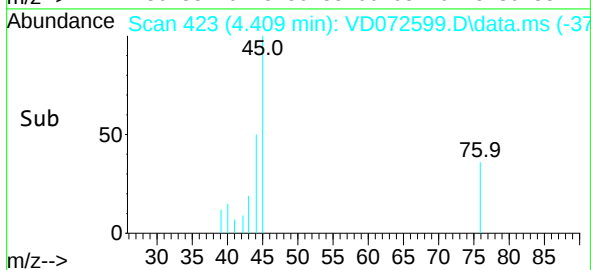
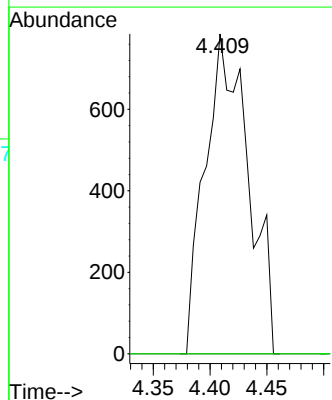
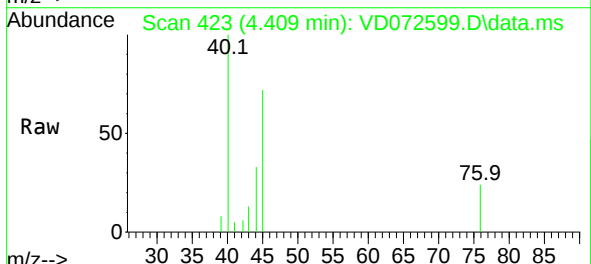
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

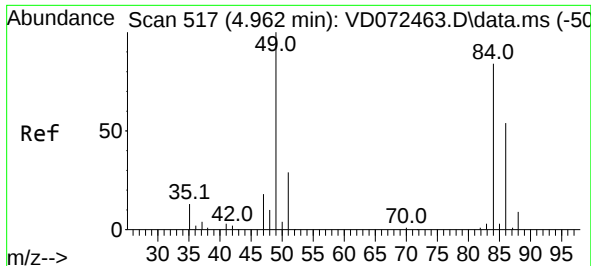
Tgt Ion: 43 Resp: 7453  
Ion Ratio Lower Upper  
43 100  
58 33.0 22.1 33.1



#17  
Carbon Disulfide  
Concen: 3.923 ug/l  
RT: 4.409 min Scan# 423  
Delta R.T. -0.005 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

Tgt Ion: 76 Resp: 2074  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#





#20

Methylene Chloride

Concen: 2.376 ug/l

RT: 4.968 min Scan# 517

Delta R.T. 0.006 min

Lab File: VD072599.D

Acq: 18 Apr 2022 15:58

Instrument :

MSVOA\_D

ClientSampleId :

PX-5

Tgt Ion: 84 Resp: 10606

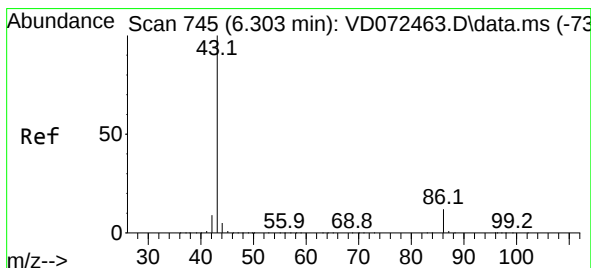
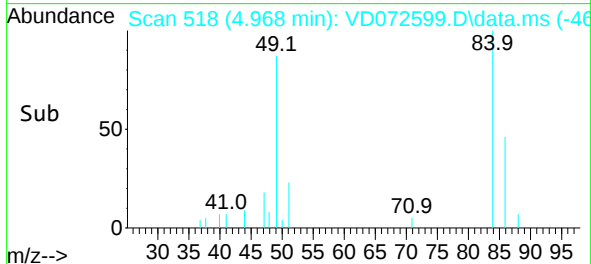
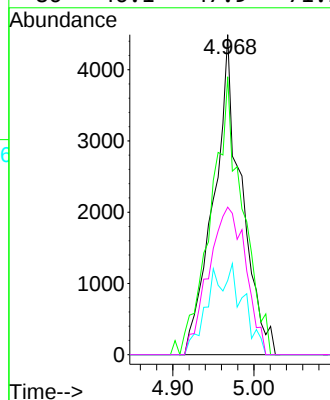
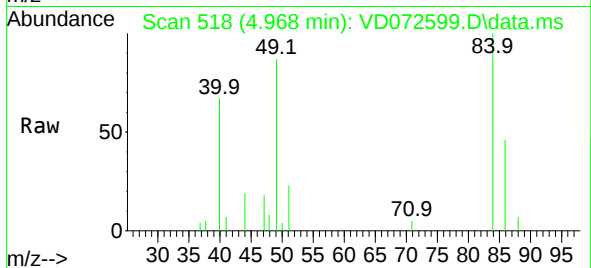
Ion Ratio Lower Upper

84 100

49 86.9 112.8 169.2#

51 23.2 32.6 48.8#

86 46.1 47.9 71.9#



#23

Vinyl Acetate

Concen: 6.311 ug/l

RT: 6.356 min Scan# 754

Delta R.T. 0.053 min

Lab File: VD072599.D

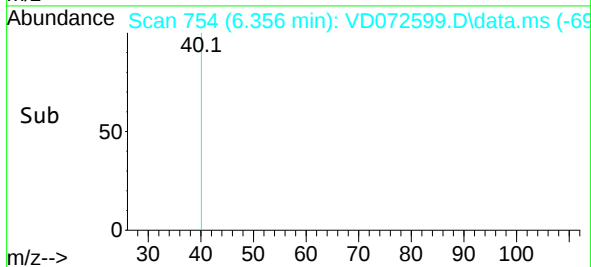
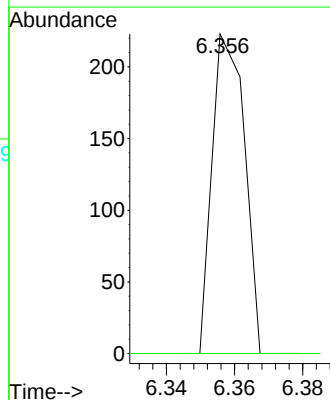
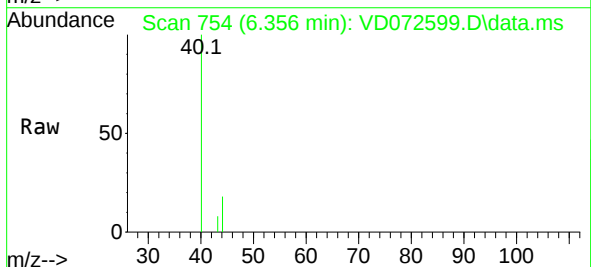
Acq: 18 Apr 2022 15:58

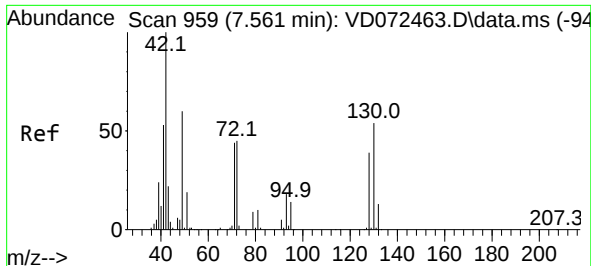
Tgt Ion: 43 Resp: 147

Ion Ratio Lower Upper

43 100

86 0.0 7.1 10.7#





#29

Tetrahydrofuran

Concen: 1.240 ug/l

RT: 7.556 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD072599.D

Acq: 18 Apr 2022 15:58

Instrument :

MSVOA\_D

ClientSampleId :

PX-5

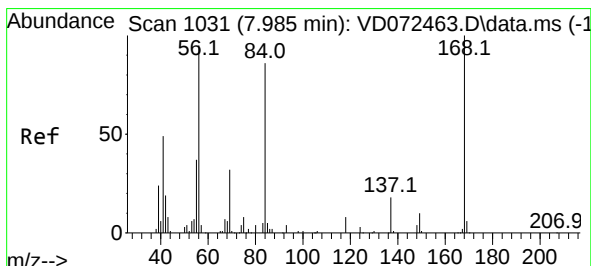
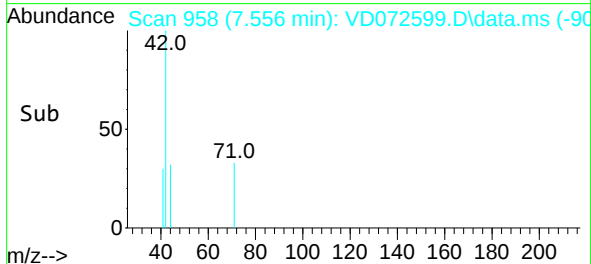
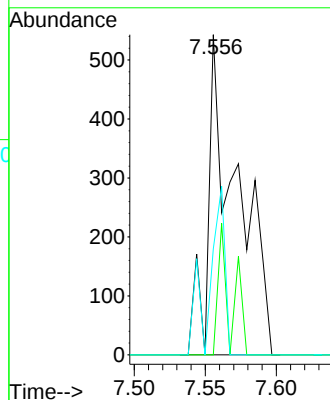
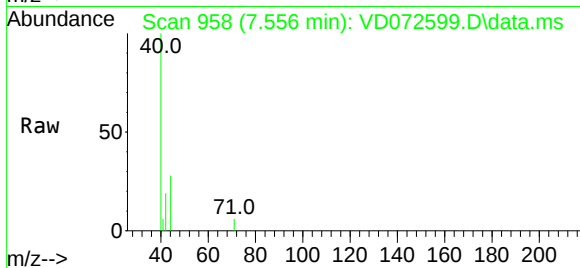
Tgt Ion: 42 Resp: 776

Ion Ratio Lower Upper

42 100

72 17.8 30.7 46.1#

71 28.6 28.6 43.0#



#31

Cyclohexane

Concen: 1.306 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VD072599.D

Acq: 18 Apr 2022 15:58

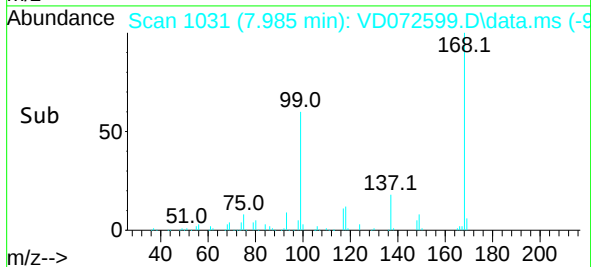
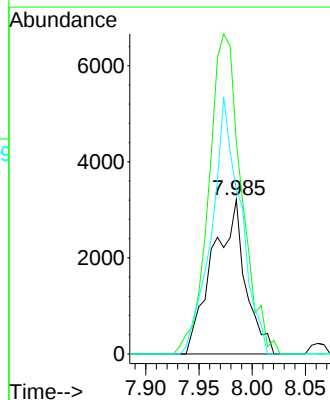
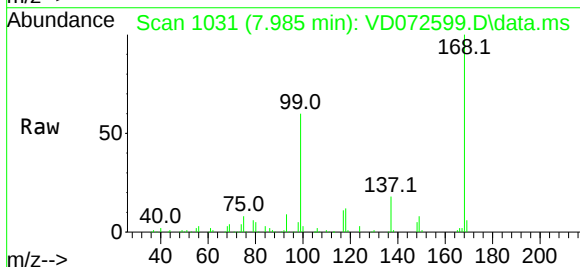
Tgt Ion: 56 Resp: 6867

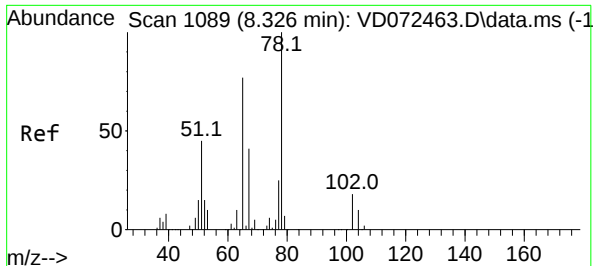
Ion Ratio Lower Upper

56 100

69 137.0 25.4 38.2#

84 106.3 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 55.745 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD072599.D

Acq: 18 Apr 2022 15:58

Instrument :

MSVOA\_D

ClientSampleId :

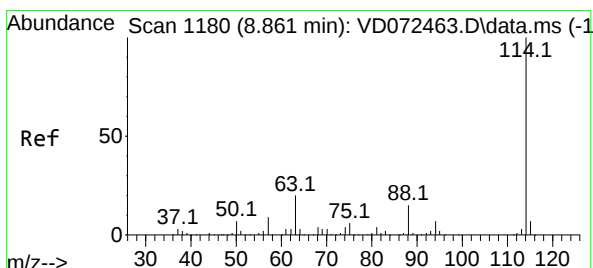
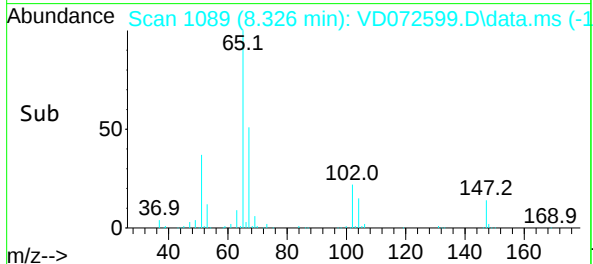
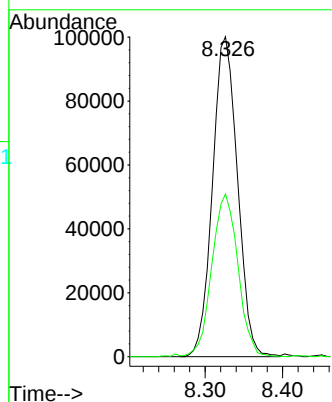
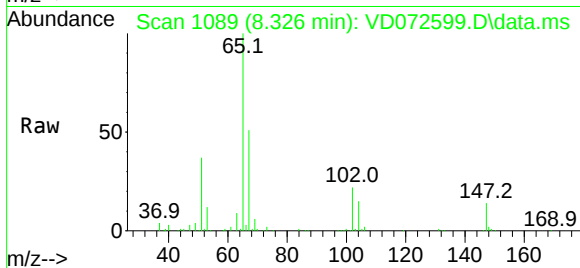
PX-5

Tgt Ion: 65 Resp: 224126

Ion Ratio Lower Upper

65 100

67 53.2 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072599.D

Acq: 18 Apr 2022 15:58

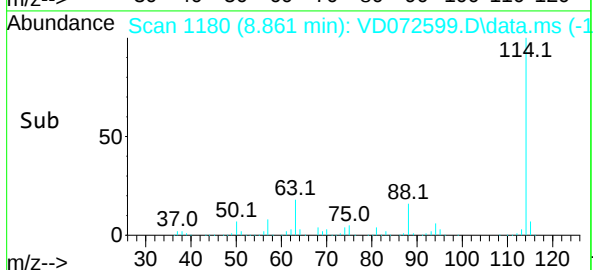
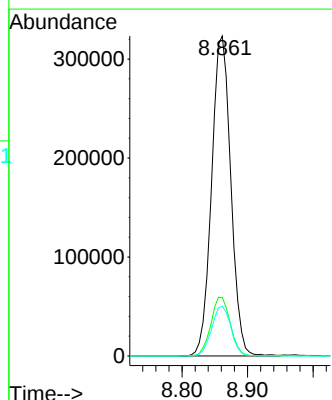
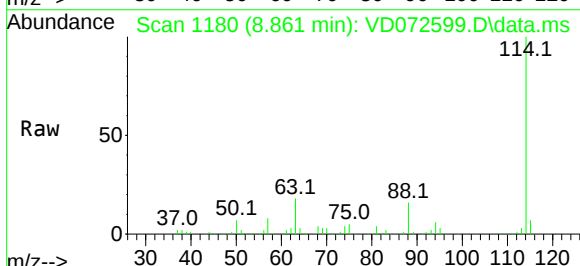
Tgt Ion: 114 Resp: 657694

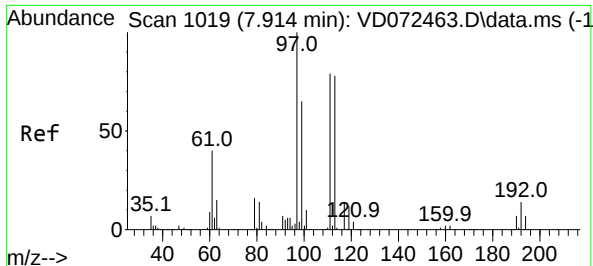
Ion Ratio Lower Upper

114 100

63 18.3 0.0 46.6

88 15.6 0.0 33.2

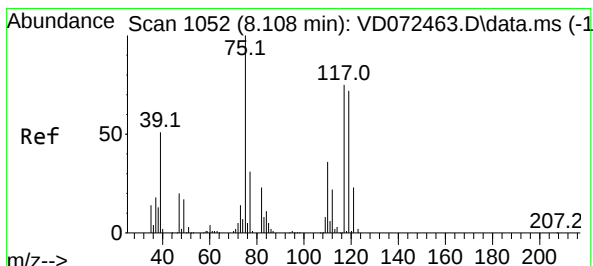
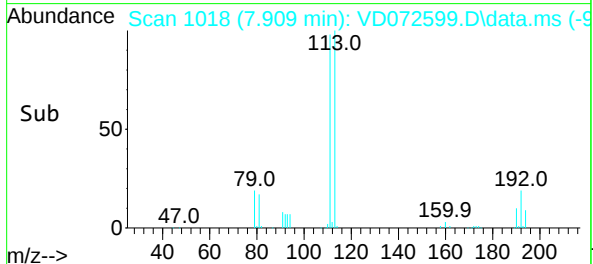
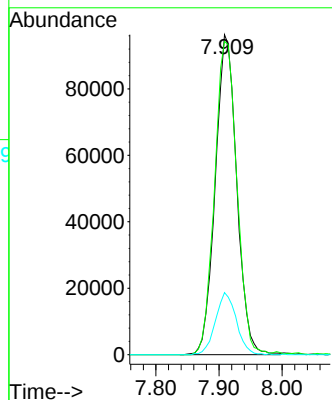
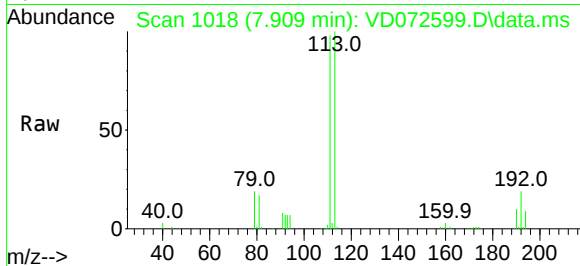




#35  
Dibromofluoromethane  
Concen: 44.456 ug/l  
RT: 7.909 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

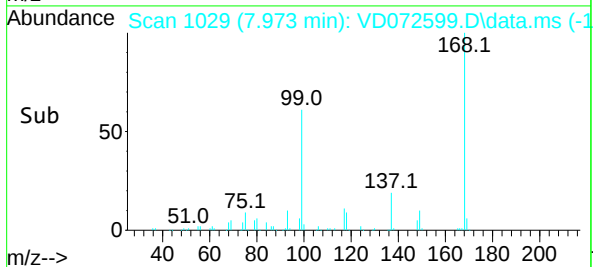
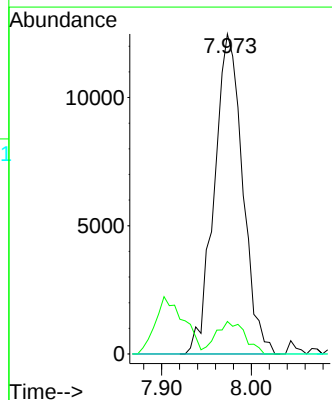
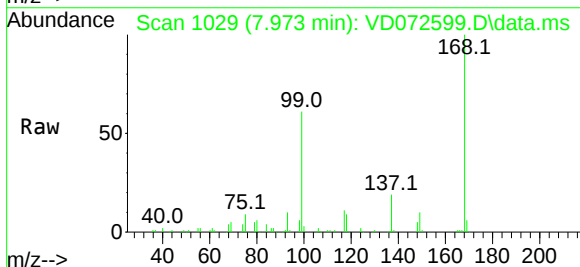
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

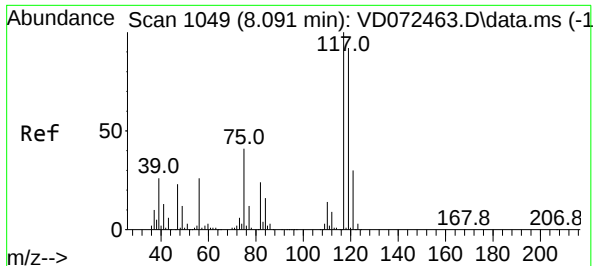
Tgt Ion:113 Resp: 227224  
Ion Ratio Lower Upper  
113 100  
111 101.9 83.8 125.6  
192 18.9 14.6 21.8



#36  
1,1-Dichloropropene  
Concen: 5.236 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

Tgt Ion: 75 Resp: 27475  
Ion Ratio Lower Upper  
75 100  
110 10.4 16.4 49.1#  
77 0.0 24.2 36.2#

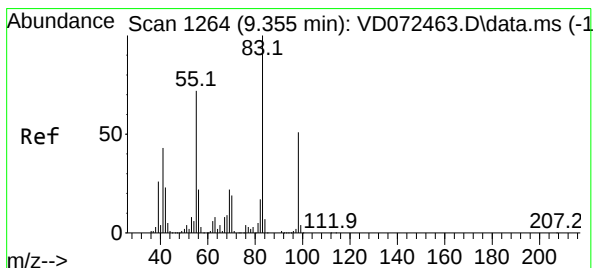
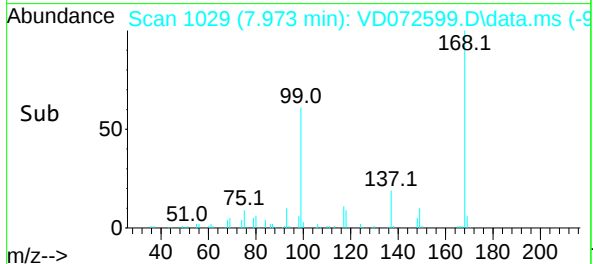
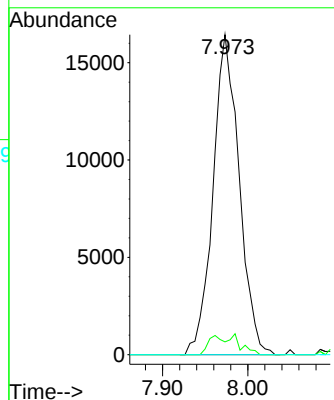
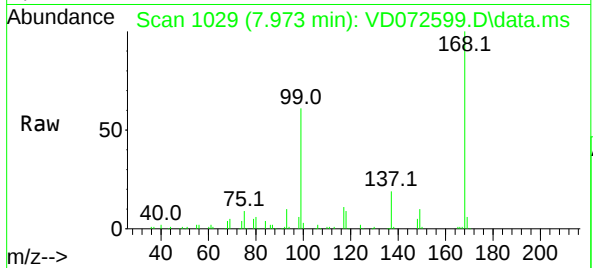




#38  
Carbon Tetrachloride  
Concen: 4.975 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.117 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

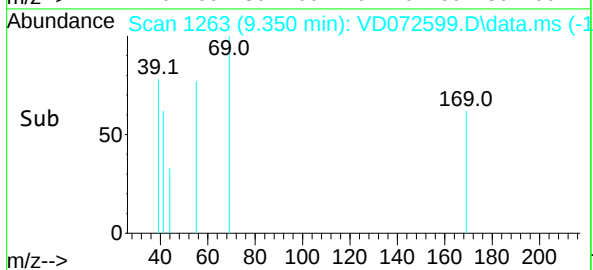
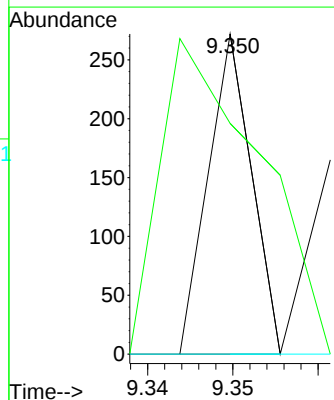
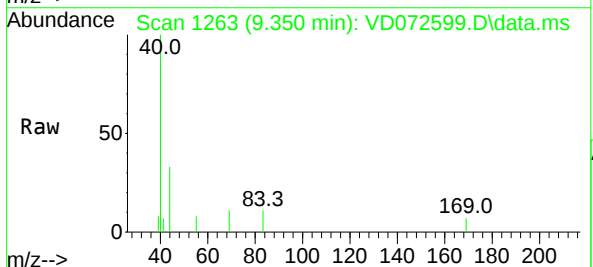
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

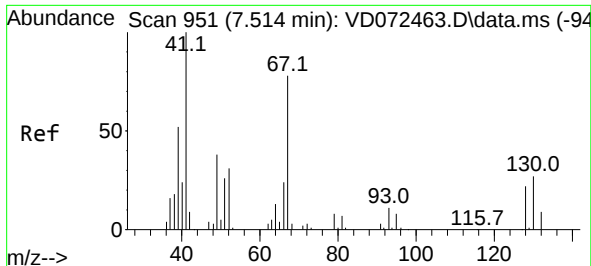
Tgt Ion:117 Resp: 35030  
Ion Ratio Lower Upper  
117 100  
119 4.0 75.8 113.6#  
121 0.0 24.5 36.7#



#39  
Methylcyclohexane  
Concen: 2.889 ug/l  
RT: 9.350 min Scan# 1263  
Delta R.T. -0.005 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

Tgt Ion: 83 Resp: 96  
Ion Ratio Lower Upper  
83 100  
55 16.2 63.2 94.8#  
98 0.0 38.2 57.4#

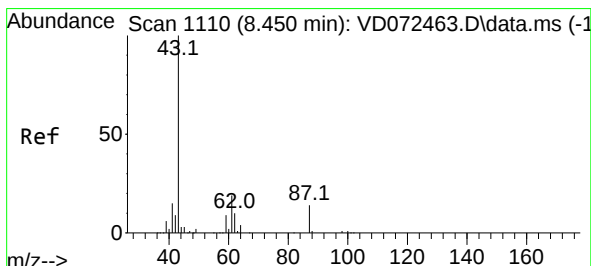
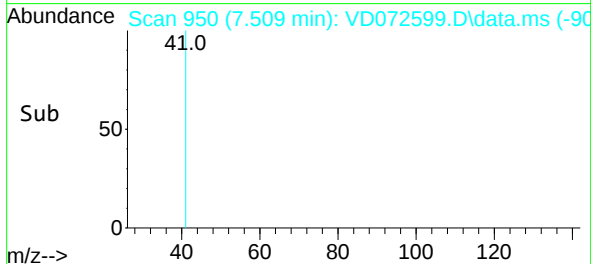
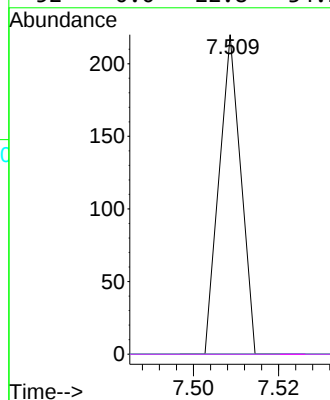
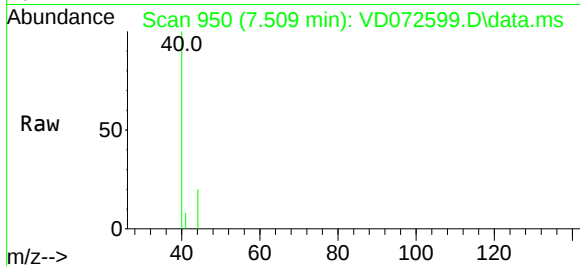




#41  
Methacrylonitrile  
Concen: 1.706 ug/l  
RT: 7.509 min Scan# 91  
Delta R.T. -0.005 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

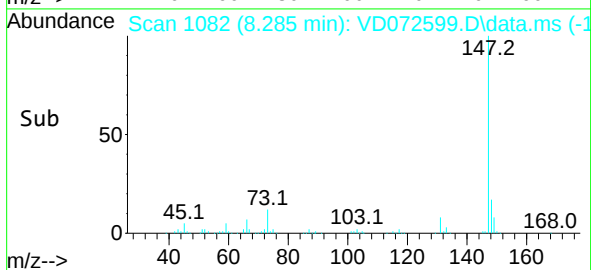
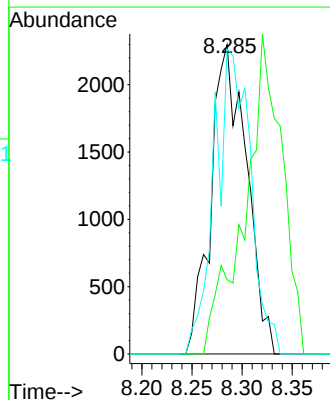
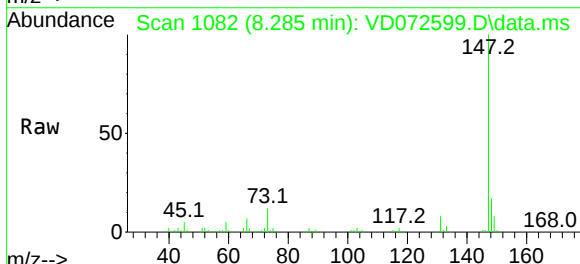
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

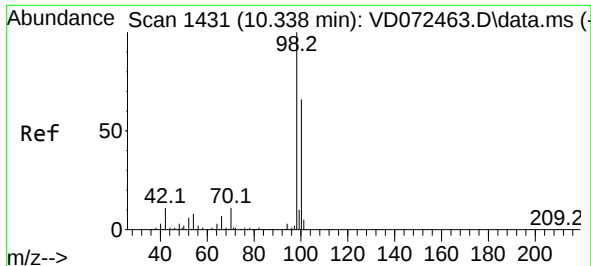
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 78    |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 0.0      | 44.6 67.0#  |
| 67 0.0      | 48.2 72.4#  |
| 52 0.0      | 22.8 34.2#  |



#43  
Isopropyl Acetate  
Concen: 1.093 ug/l  
RT: 8.285 min Scan# 1082  
Delta R.T. -0.165 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

|             |       |       |  |
|-------------|-------|-------|--|
| Tgt Ion: 43 | Resp: | 5680  |  |
| Ion Ratio   | Lower | Upper |  |
| 43 100      |       |       |  |
| 61 0.0      | 22.4  | 33.6# |  |
| 87 99.5     | 8.7   | 13.1# |  |

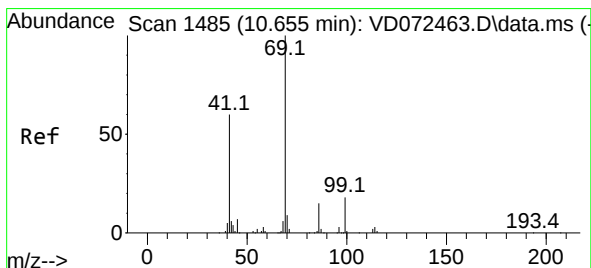
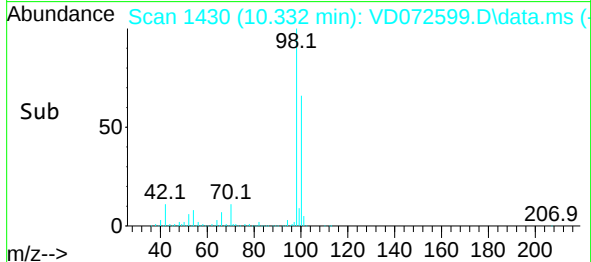
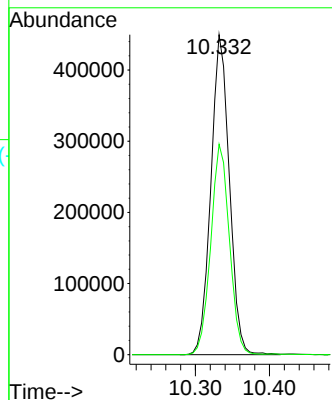
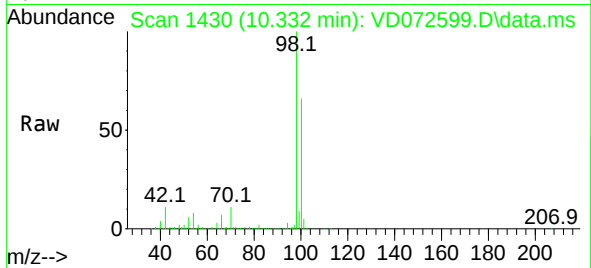




#50  
Toluene-d8  
Concen: 43.821 ug/l  
RT: 10.332 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

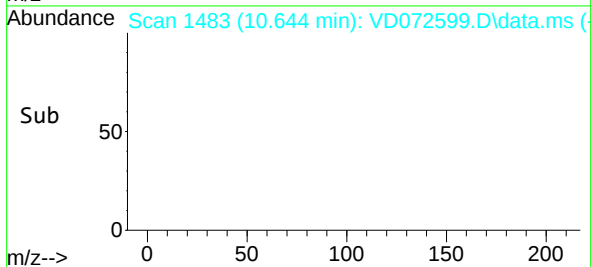
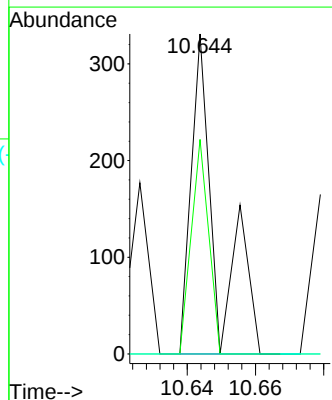
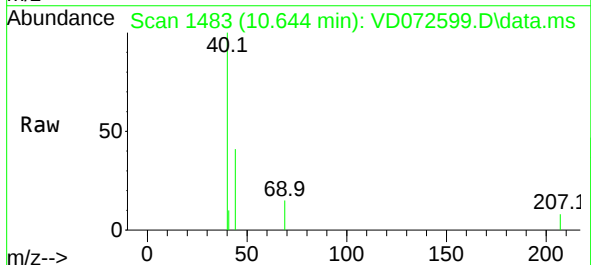
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

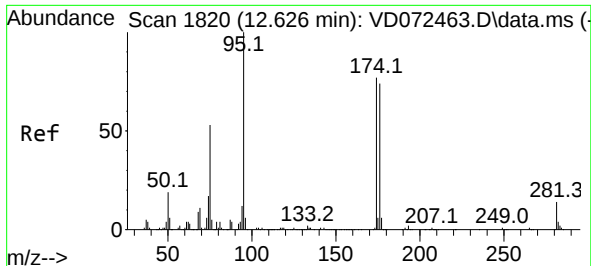
Tgt Ion: 98 Resp: 778568  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.4 78.6



#56  
Ethyl methacrylate  
Concen: 1.225 ug/l  
RT: 10.644 min Scan# 1483  
Delta R.T. -0.011 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

Tgt Ion: 69 Resp: 171  
Ion Ratio Lower Upper  
69 100  
41 45.6 63.0 94.6#  
39 0.0 33.8 50.8#

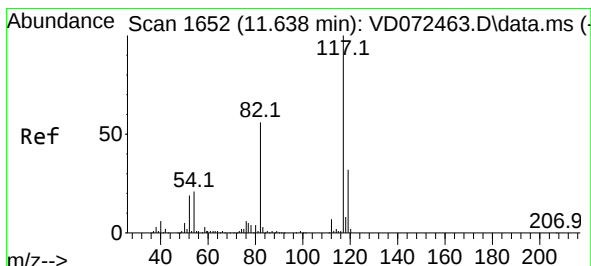
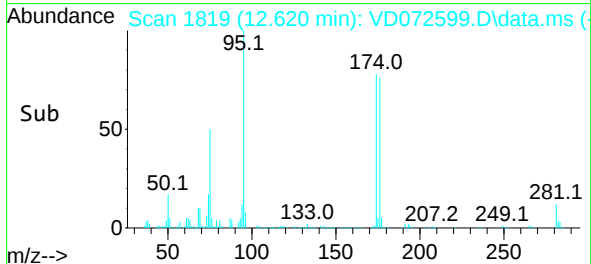
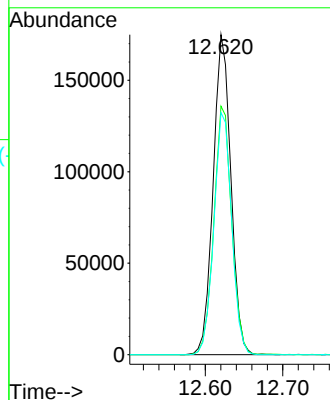
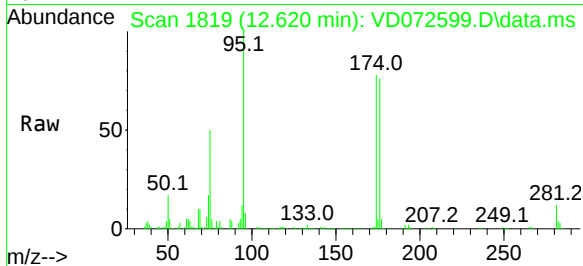




#62  
4-Bromofluorobenzene  
Concen: 40.111 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

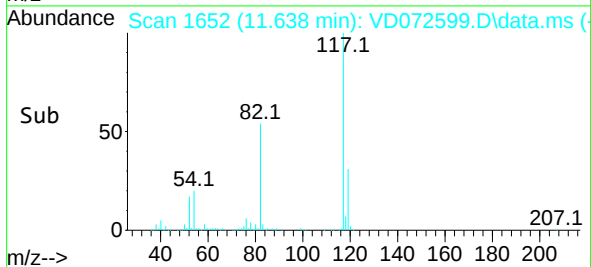
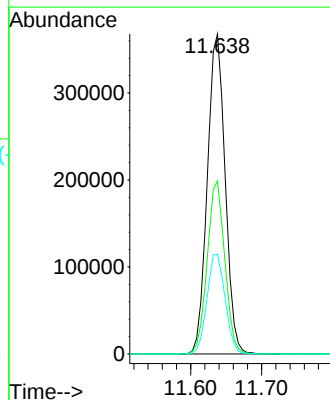
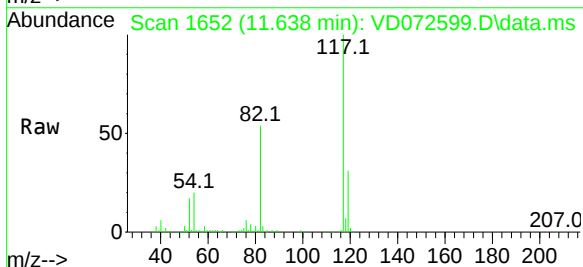
Instrument :  
MSVOA\_D  
ClientSampleId :  
PX-5

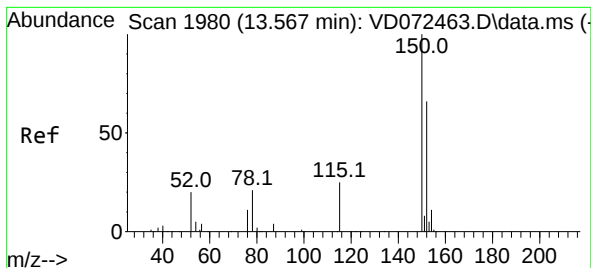
Tgt Ion: 95 Resp: 278321  
Ion Ratio Lower Upper  
95 100  
174 78.4 0.0 152.8  
176 75.9 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072599.D  
Acq: 18 Apr 2022 15:58

Tgt Ion: 117 Resp: 641707  
Ion Ratio Lower Upper  
117 100  
82 54.1 45.3 67.9  
119 31.2 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1980

Delta R.T. -0.006 min

Lab File: VD072599.D

Acq: 18 Apr 2022 15:58

Instrument :

MSVOA\_D

ClientSampleId :

PX-5

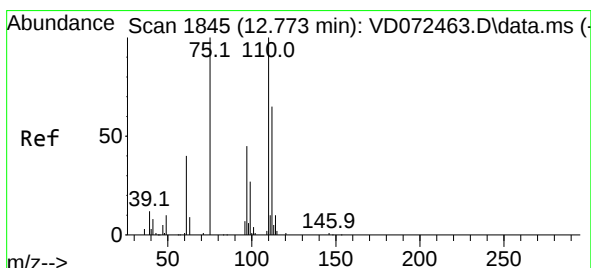
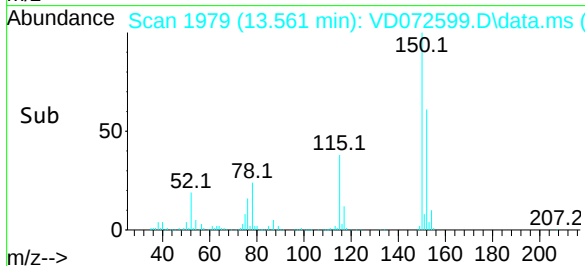
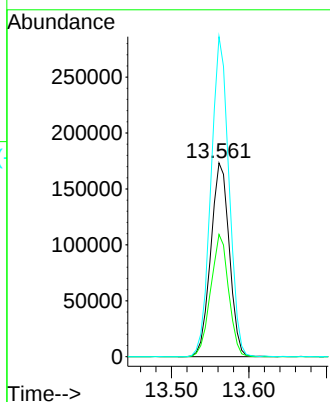
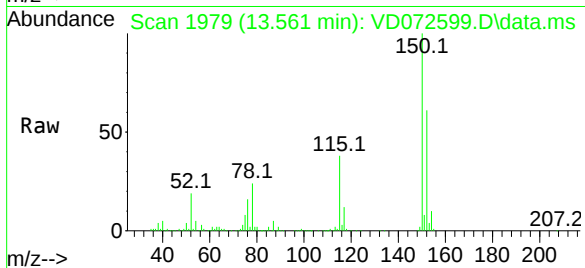
Tgt Ion:152 Resp: 287939

Ion Ratio Lower Upper

152 100

115 61.0 31.3 93.8

150 160.2 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 44.956 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.153 min

Lab File: VD072599.D

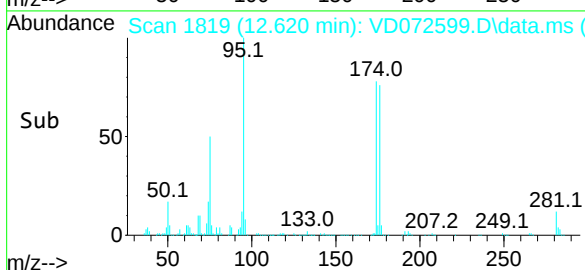
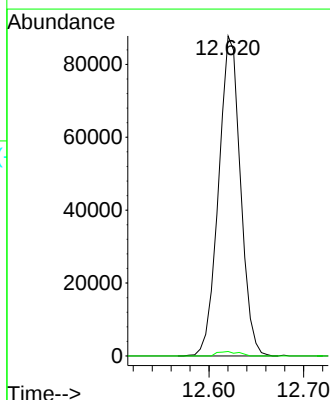
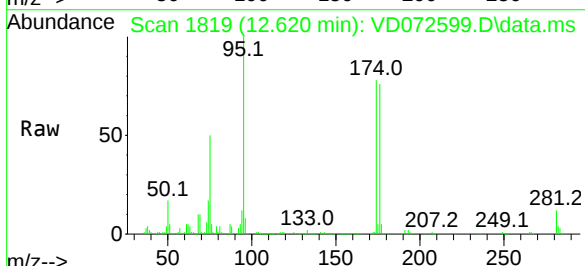
Acq: 18 Apr 2022 15:58

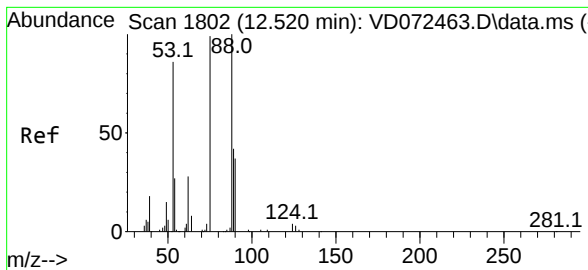
Tgt Ion: 75 Resp: 141181

Ion Ratio Lower Upper

75 100

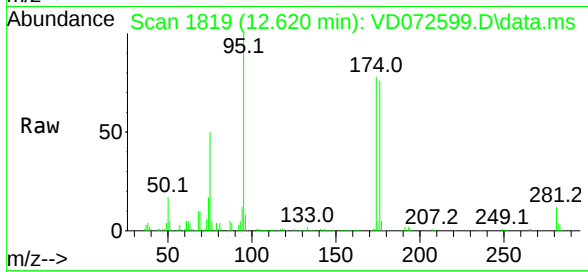
77 1.4 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 110.313 ug/l  
 RT: 12.620 min Scan# 11  
 Delta R.T. 0.100 min  
 Lab File: VD072599.D  
 Acq: 18 Apr 2022 15:58

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PX-5



Tgt Ion: 75 Resp: 141181  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 86.5 129.7#  
 89 0.0 33.9 50.9#

