

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX013122\  
 Data File : VX026682.D  
 Acq On : 31 Jan 2022 15:54  
 Operator : JC/MD  
 Sample : PB142369ZHE#05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

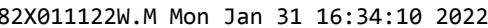
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB142369ZHE#05

Quant Time: Jan 31 16:33:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 11 14:45:13 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 131728   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 223910   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 202413   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 84587    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 85300    | 46.355   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 92.720%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 70001    | 48.412   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 96.820%  |
| 50) Toluene-d8                | 8.653  | 98    | 264036   | 50.673   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 101.340% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 94516    | 51.063   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 102.120% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) Methyl Iodide             | 2.465  | 142   | 36       | 4.466    | ug/l # | 37       |
| 16) Acetone                   | 2.392  | 43    | 11926    | 12.709   | ug/l   | 98       |
| 18) Methyl Acetate            | 2.715  | 43    | 886      | 0.475    | ug/l   | 91       |
| 20) Methylene Chloride        | 2.794  | 84    | 1220     | 0.787    | ug/l   | 92       |
| 25) 2-Butanone                | 4.574  | 43    | 2579     | 2.113    | ug/l   | 95       |
| 31) Cyclohexane               | 5.550  | 56    | 2468     | 0.909    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 10071    | 4.412    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.574  | 43    | 2579     | 1.117    | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 13397    | 5.706    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 11774    | 3.157    | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.604  | 41    | 3265     | 1.766    | ug/l # | 16       |
| 49) 1,4-Dioxane               | 7.805  | 88    | 47       | 1.549    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 43741    | 19.771   | ug/l # | 51       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 20597    | 8.549    | ug/l # | 57       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 12301    | 4.699    | ug/l # | 43       |
| 59) 2-Hexanone                | 9.482  | 43    | 167622   | 98.993   | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 47380    | 25.440   | ug/l # | 40       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105   | 1146     | 0.200    | ug/l   | 92       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 47380    | 77.240   | ug/l # | 3        |
| -----                         |        |       |          |          |        |          |

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

Quant Time: Jan 31 16:33:58 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 11 14:45:13 2022  
Response via : Initial Calibration

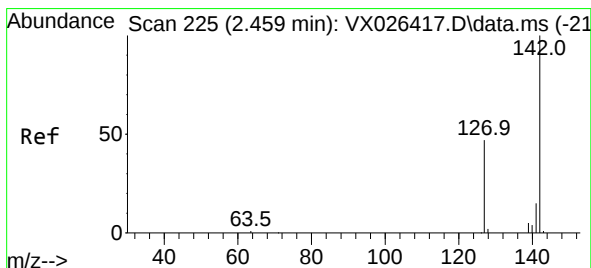
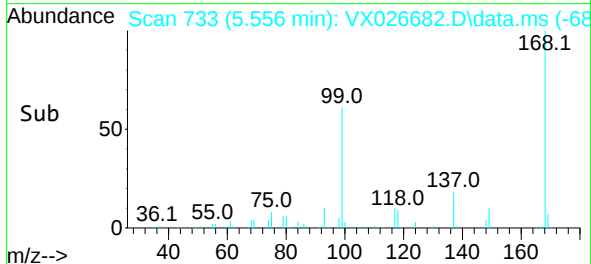
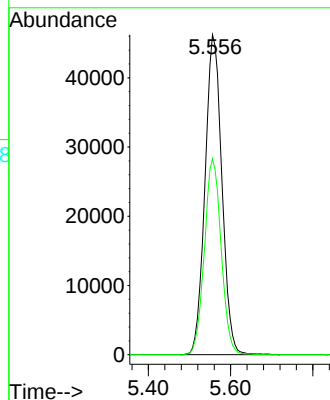
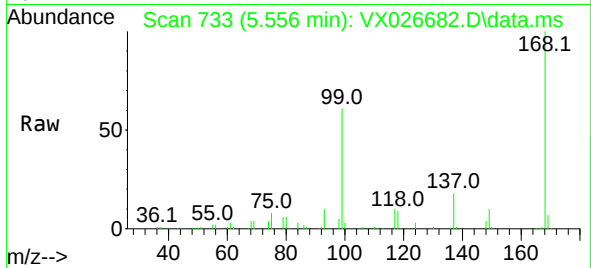




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

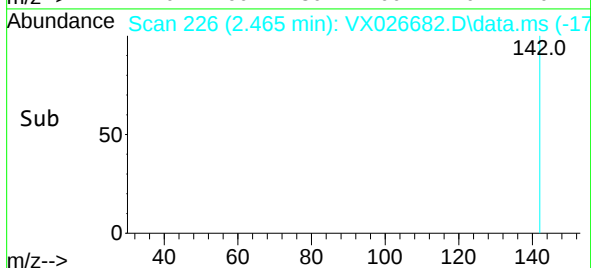
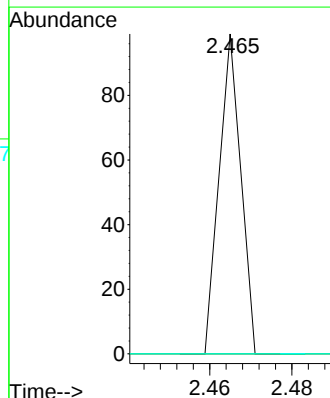
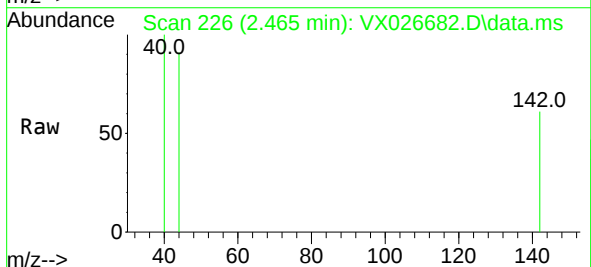
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

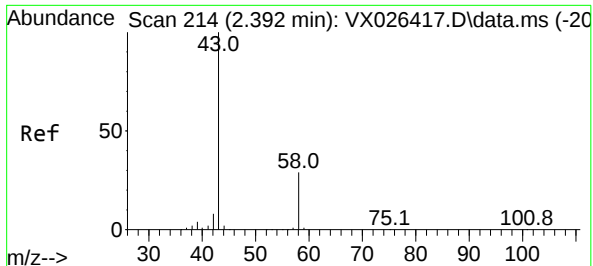
Tgt Ion:168 Resp: 131728  
Ion Ratio Lower Upper  
168 100  
99 61.3 50.3 75.5



#10  
Methyl Iodide  
Concen: 4.466 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.006 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion:142 Resp: 36  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.1 57.1#  
141 0.0 11.2 16.8#

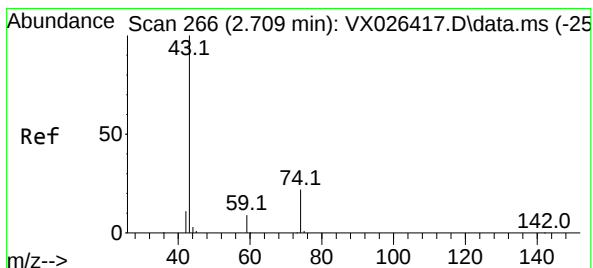
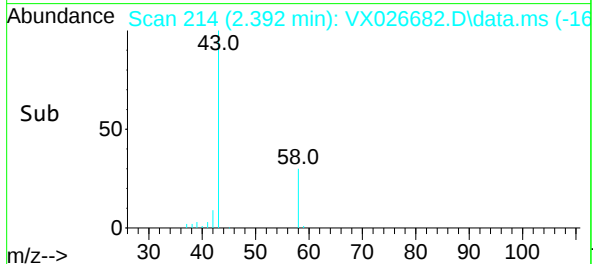
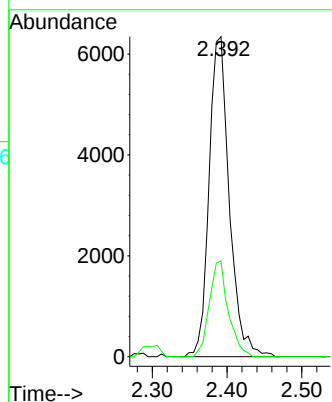
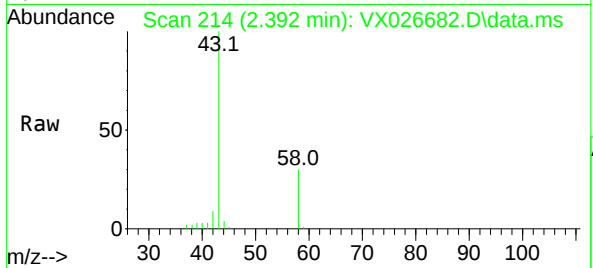




#16  
Acetone  
Concen: 12.709 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

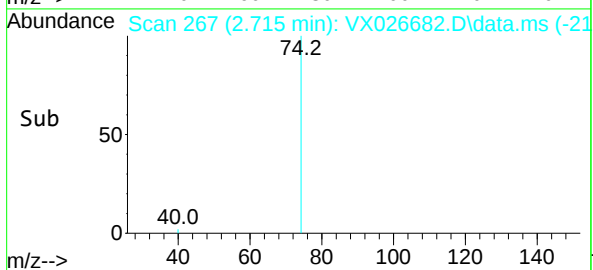
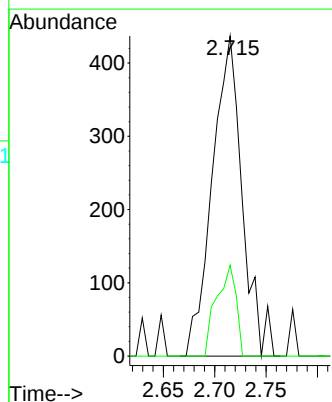
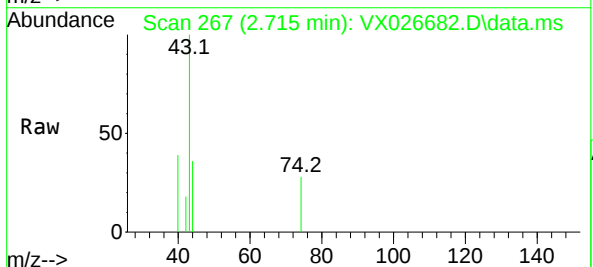
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

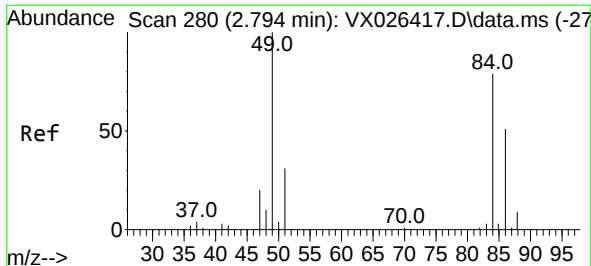
Tgt Ion: 43 Resp: 11926  
Ion Ratio Lower Upper  
43 100  
58 29.9 23.0 34.6



#18  
Methyl Acetate  
Concen: 0.475 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

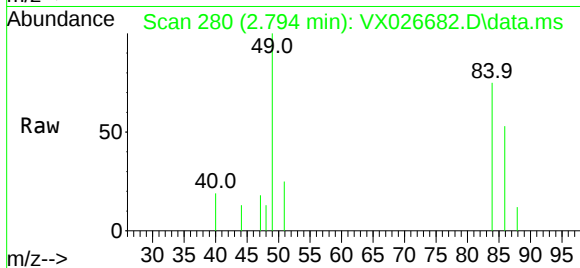
Tgt Ion: 43 Resp: 886  
Ion Ratio Lower Upper  
43 100  
74 18.4 18.3 27.5



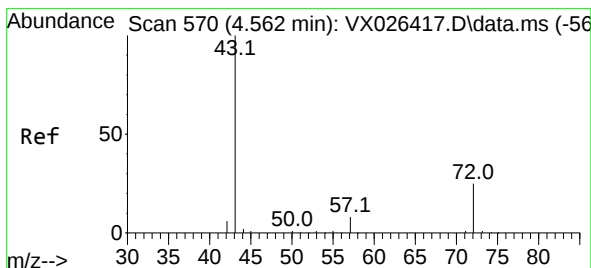
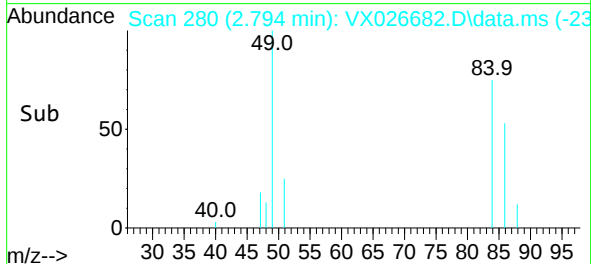
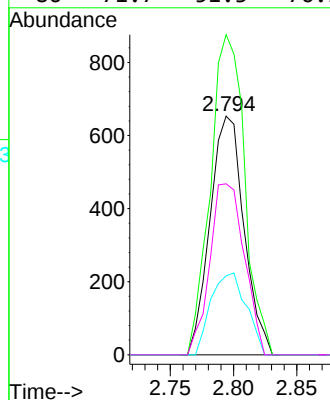


#20  
Methylene Chloride  
Concen: 0.787 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

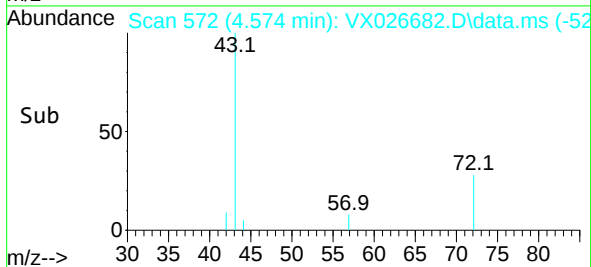
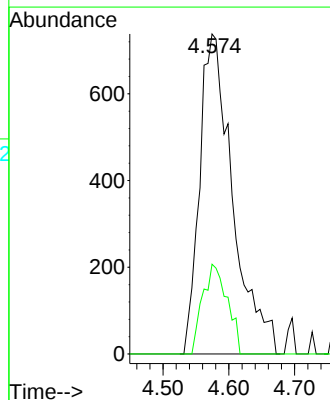
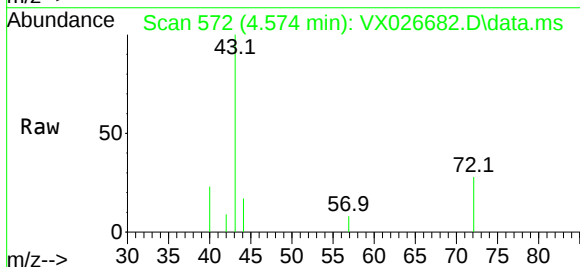


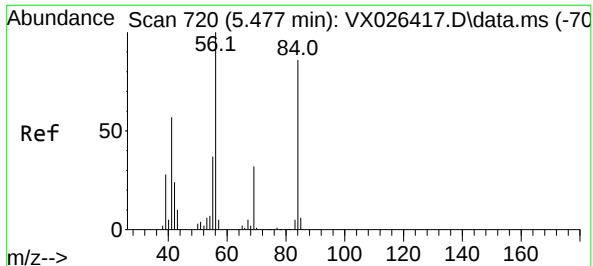
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1220  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 134.2 | 101.5 | 152.3 |
| 51       | 33.1  | 31.2  | 46.8  |
| 86       | 71.7  | 51.3  | 76.9  |



#25  
2-Butanone  
Concen: 2.113 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.012 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2579  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 28.0  | 20.4  | 30.6  |

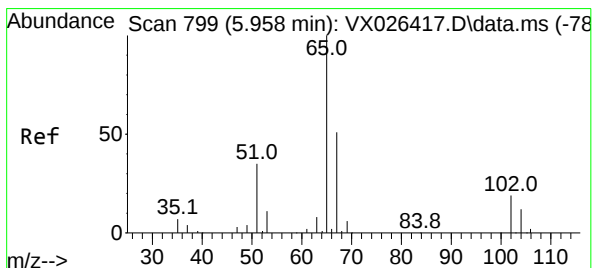
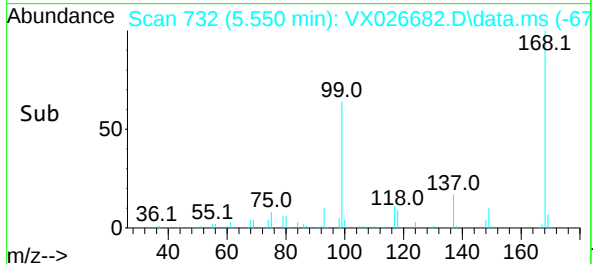
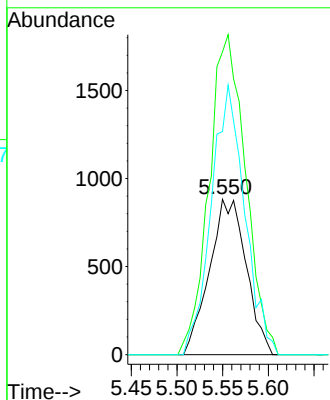
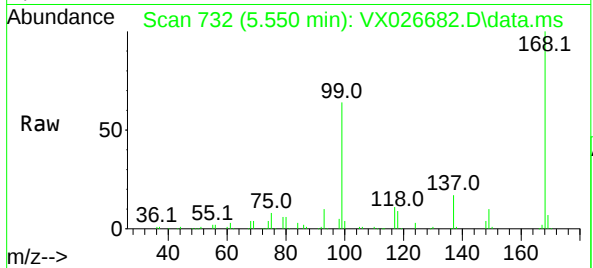




#31  
Cyclohexane  
Concen: 0.909 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.073 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

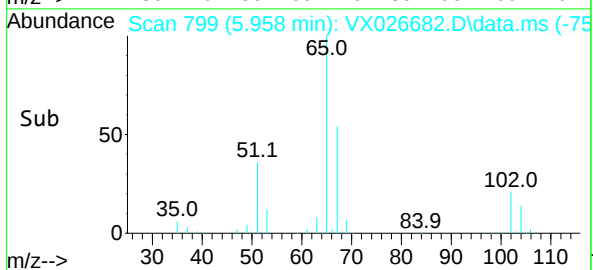
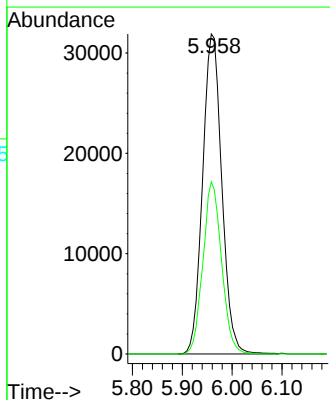
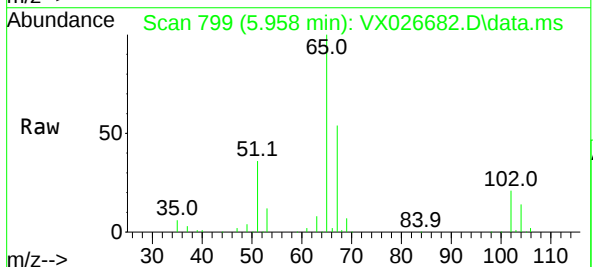
Instrument :  
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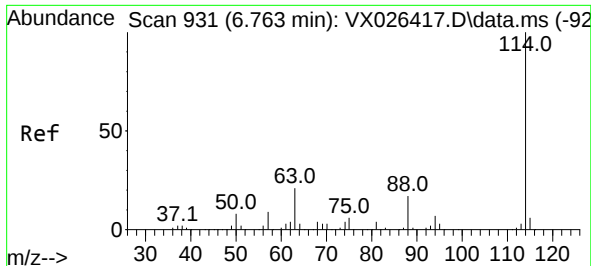
Tgt Ion: 56 Resp: 2468  
Ion Ratio Lower Upper  
56 100  
69 195.0 25.8 38.6#  
84 143.7 68.9 103.3#



#33  
1,2-Dichloroethane-d4  
Concen: 46.355 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion: 65 Resp: 85300  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 100.8

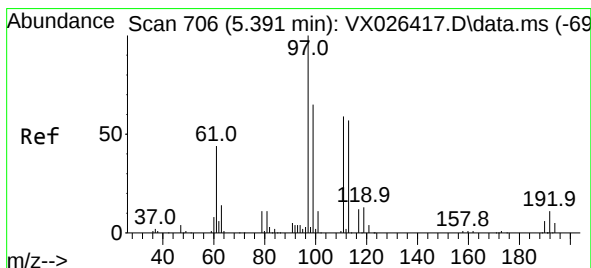
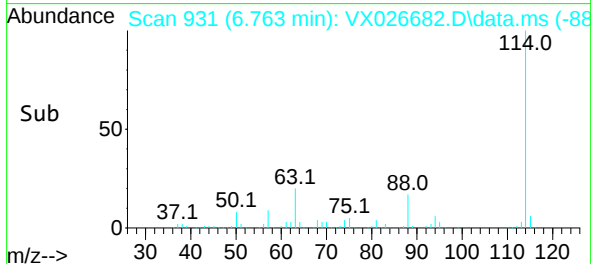
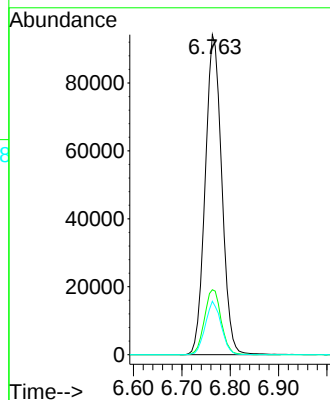
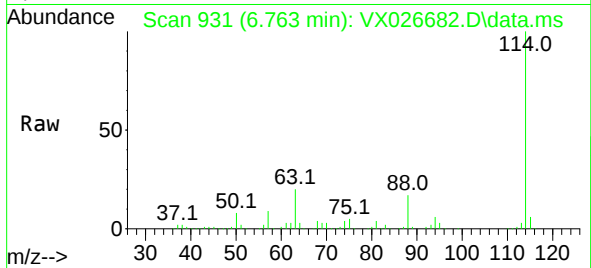




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

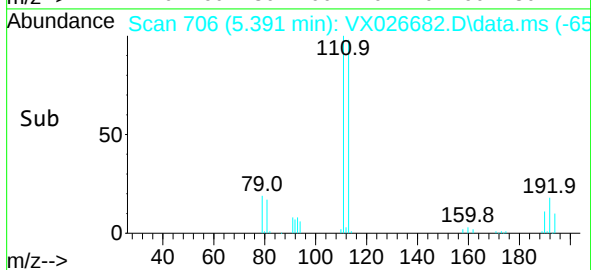
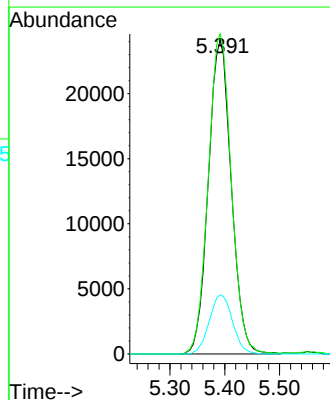
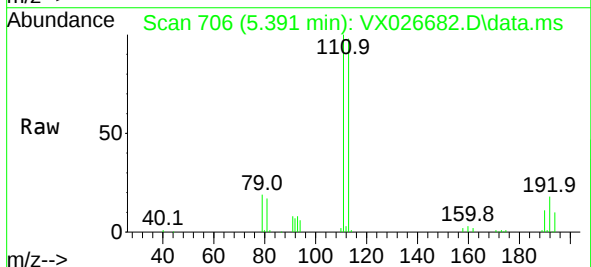
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

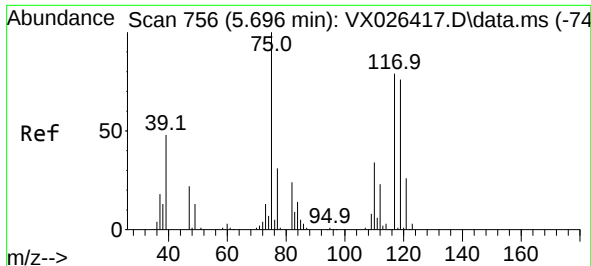
Tgt Ion:114 Resp: 223910  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 42.8  
88 16.7 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 48.412 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion:113 Resp: 70001  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.2 121.8  
192 19.0 15.0 22.4

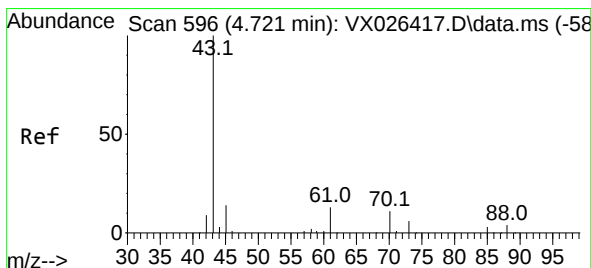
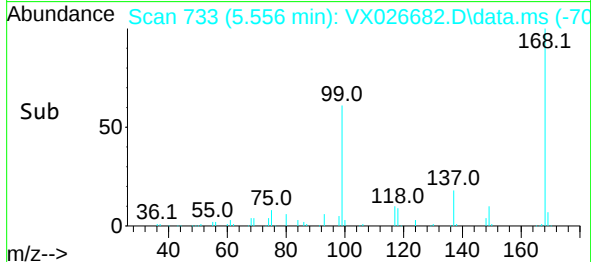
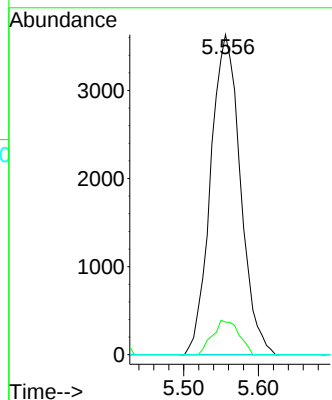
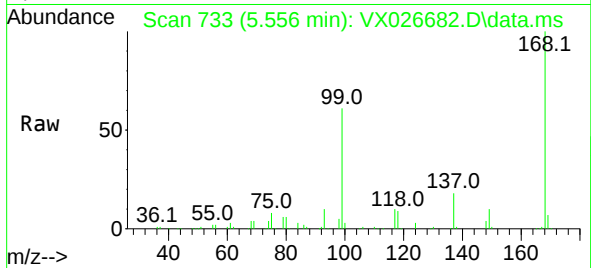




#36  
1,1-Dichloropropene  
Concen: 4.412 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

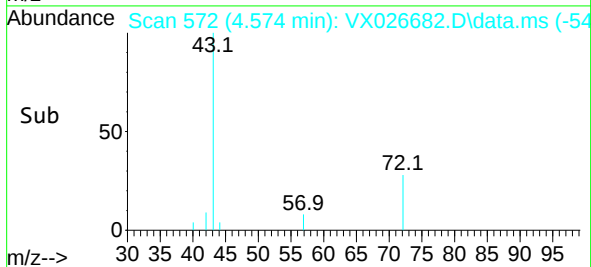
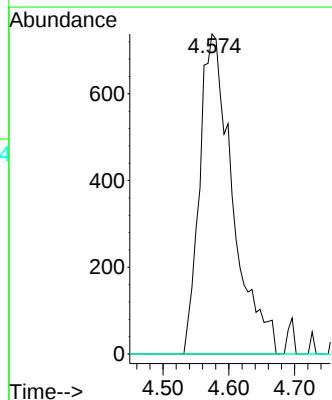
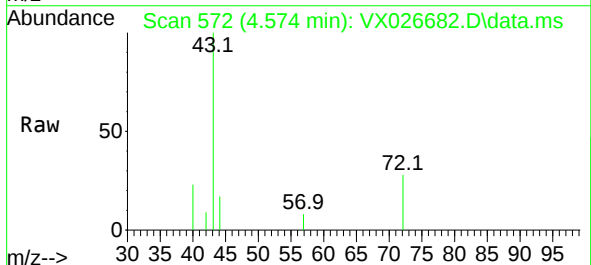
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

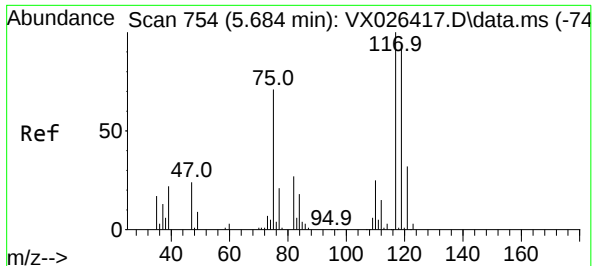
Tgt Ion: 75 Resp: 10071  
Ion Ratio Lower Upper  
75 100  
110 9.5 17.2 51.6#  
77 0.0 24.6 36.8#



#37  
Ethyl Acetate  
Concen: 1.117 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. -0.146 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

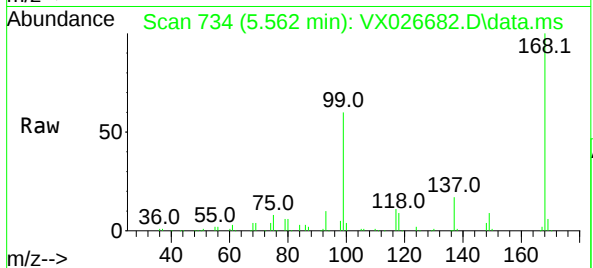
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Ion Ratio Lower Upper  
43 100  
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70 0.0 8.5 12.7#



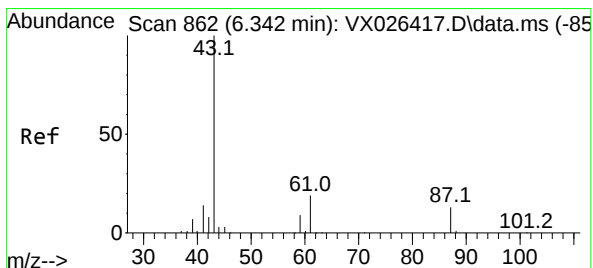
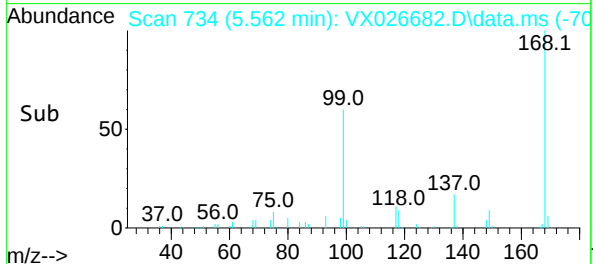
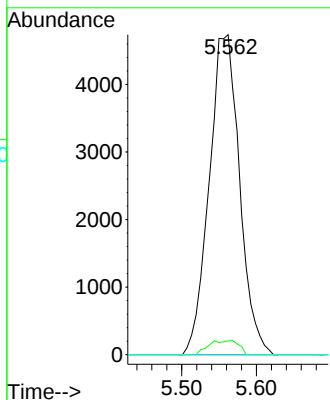


#38  
Carbon Tetrachloride  
Concen: 5.706 ug/l  
RT: 5.562 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

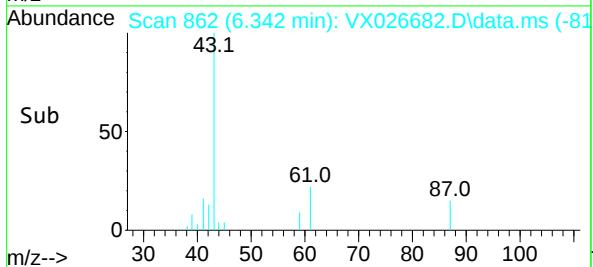
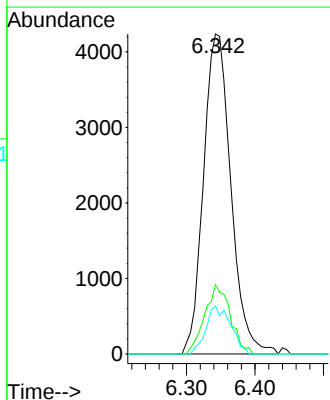
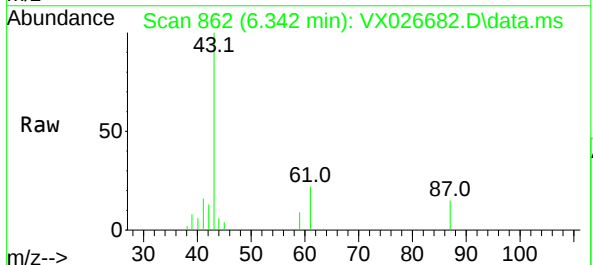


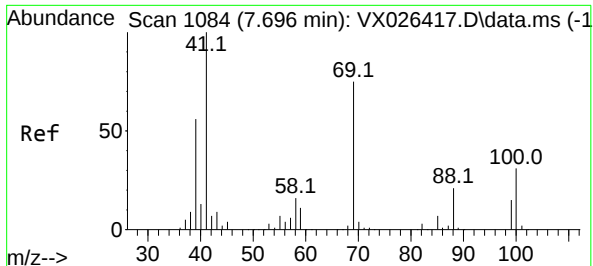
Tgt Ion:117 Resp: 13397  
Ion Ratio Lower Upper  
117 100  
119 4.3 74.7 112.1#  
121 0.0 25.4 38.0#



#43  
Isopropyl Acetate  
Concen: 3.157 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion: 43 Resp: 11774  
Ion Ratio Lower Upper  
43 100  
61 20.1 15.4 23.0  
87 13.5 10.2 15.2

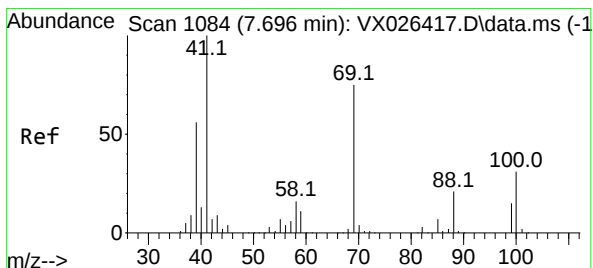
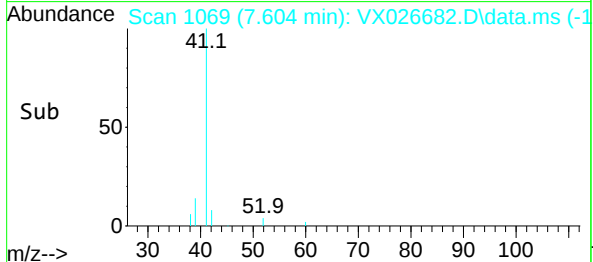
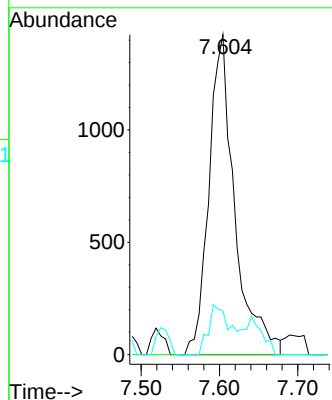
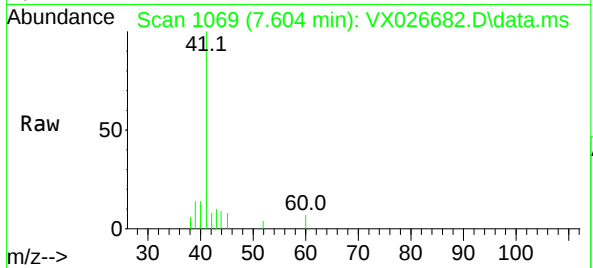




#48  
Methyl methacrylate  
Concen: 1.766 ug/l  
RT: 7.604 min Scan# 1102  
Delta R.T. -0.091 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

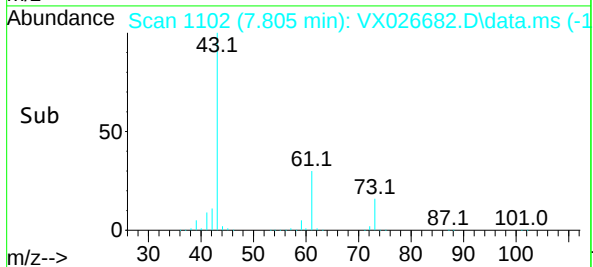
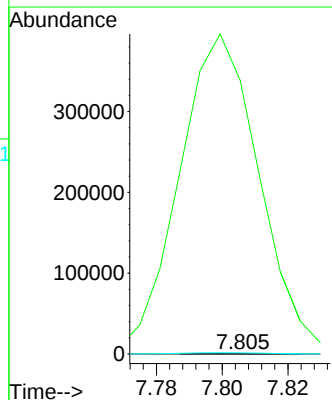
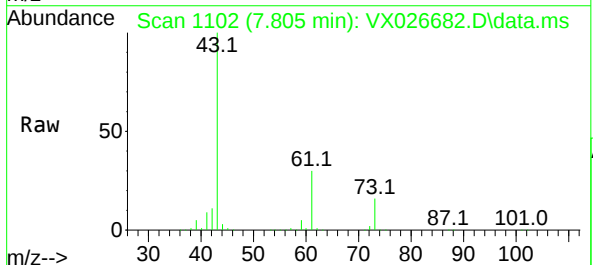
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

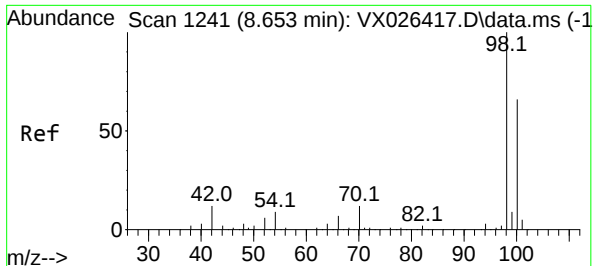
Tgt Ion: 41 Resp: 3265  
Ion Ratio Lower Upper  
41 100  
69 0.0 62.2 93.4#  
39 0.0 45.4 68.0#



#49  
1,4-Dioxane  
Concen: 1.549 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.110 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion: 88 Resp: 47  
Ion Ratio Lower Upper  
88 100  
43 1441361.7 29.9 44.9#  
58 5810.6 57.8 86.6#

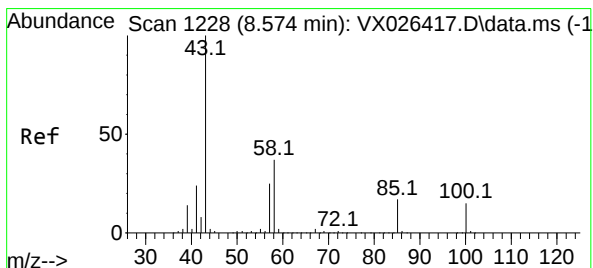
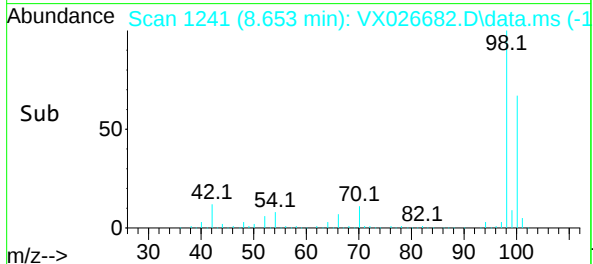
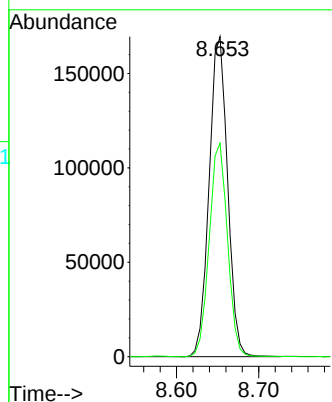
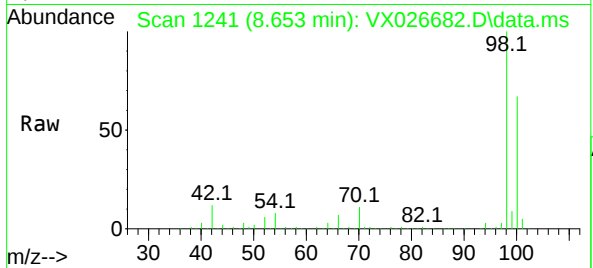




#50  
Toluene-d8  
Concen: 50.673 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

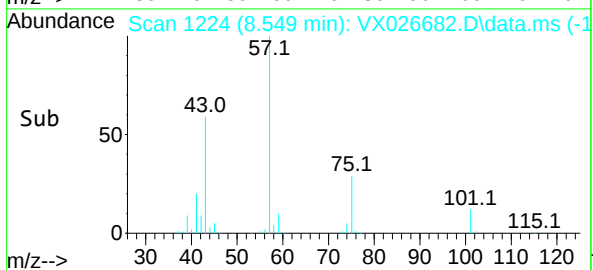
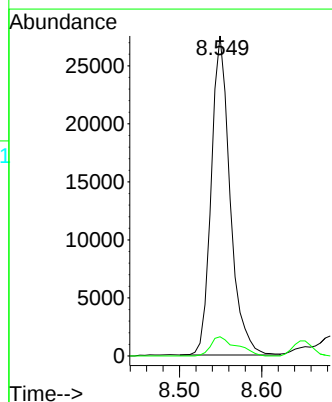
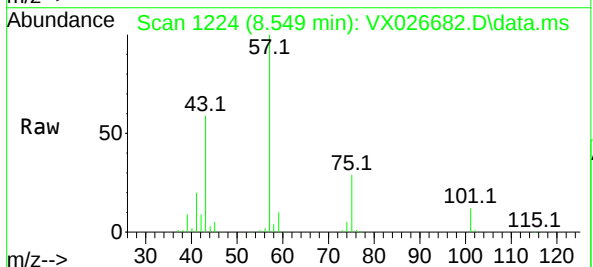
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

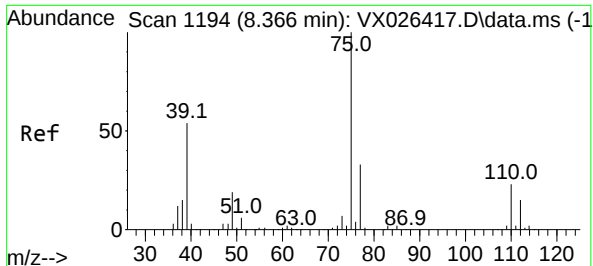
Tgt Ion: 98 Resp: 264036  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.2 79.8



#51  
4-Methyl-2-Pentanone  
Concen: 19.771 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion: 43 Resp: 43741  
Ion Ratio Lower Upper  
43 100  
58 8.3 30.5 45.7#

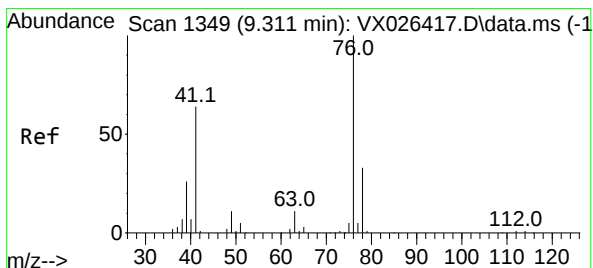
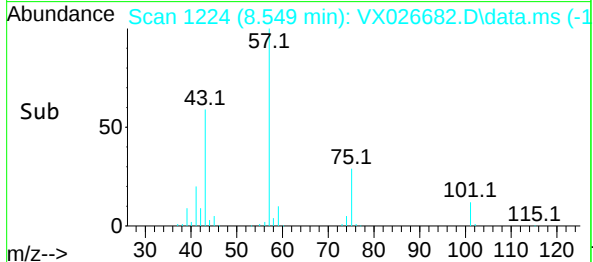
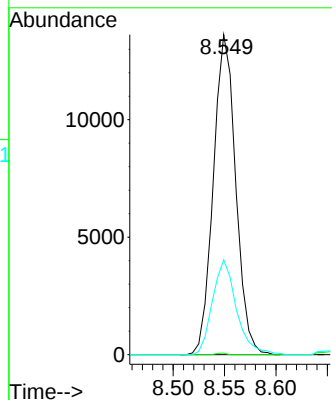
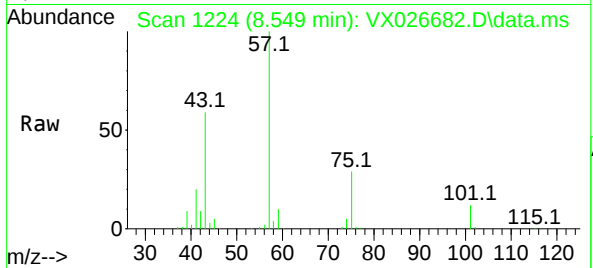




#54  
 cis-1,3-Dichloropropene  
 Concen: 8.549 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX026682.D  
 Acq: 31 Jan 2022 15:54

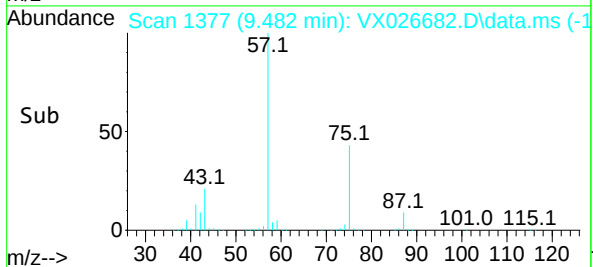
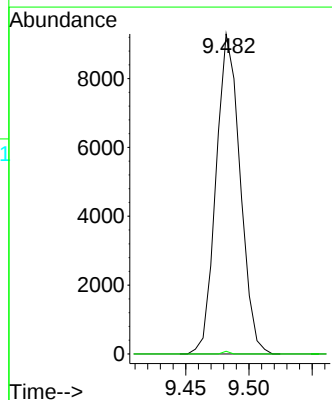
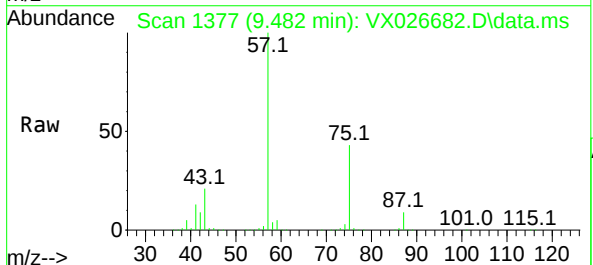
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB142369ZHE#05

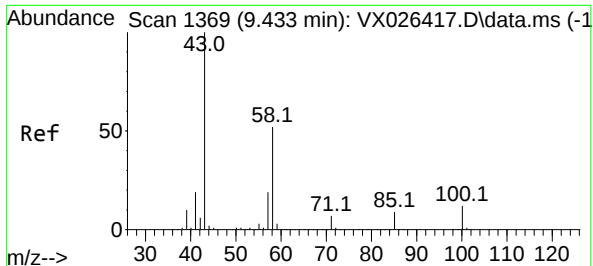
Tgt Ion: 75 Resp: 20597  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 26.2 39.2#  
 39 29.7 43.5 65.3#



#57  
 1,3-Dichloropropane  
 Concen: 4.699 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.171 min  
 Lab File: VX026682.D  
 Acq: 31 Jan 2022 15:54

Tgt Ion: 76 Resp: 12301  
 Ion Ratio Lower Upper  
 76 100  
 78 0.2 25.7 38.5#





#59

2-Hexanone

Concen: 98.993 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX026682.D

Acq: 31 Jan 2022 15:54

Instrument :

MSVOA\_X

ClientSampleId :

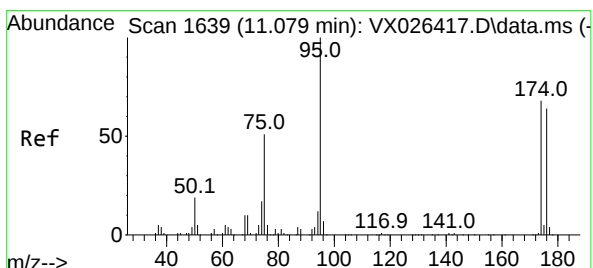
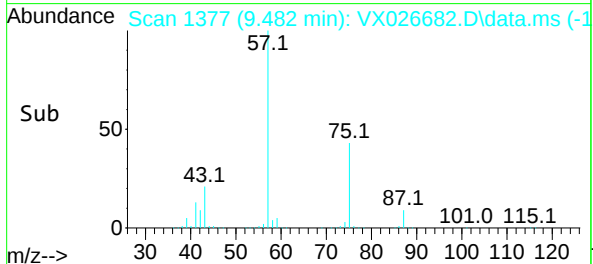
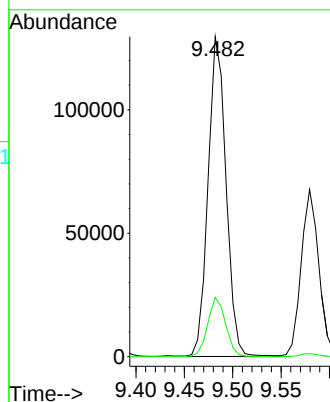
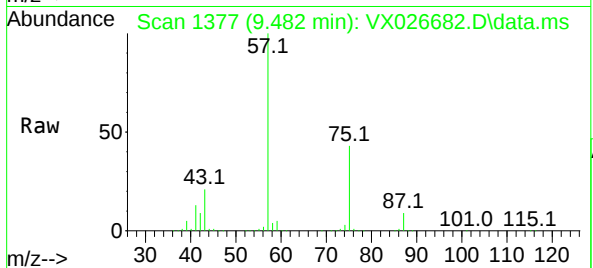
PB142369ZHE#05

Tgt Ion: 43 Resp: 167622

Ion Ratio Lower Upper

43 100

58 18.6 26.4 79.2#



#62

4-Bromofluorobenzene

Concen: 51.063 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX026682.D

Acq: 31 Jan 2022 15:54

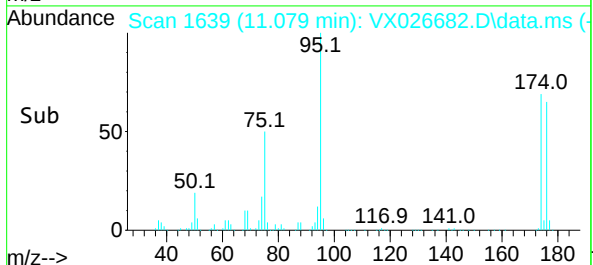
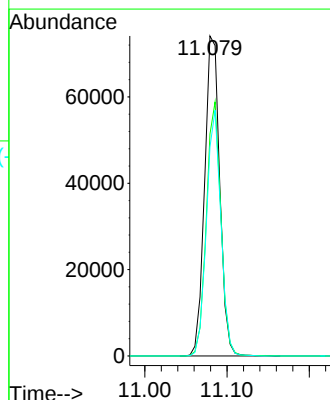
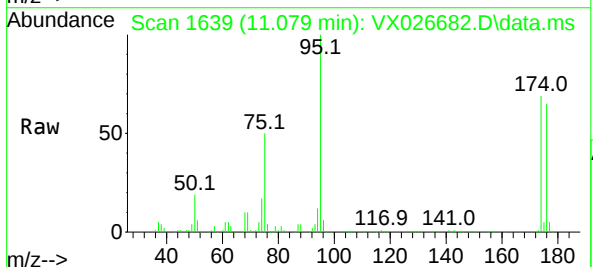
Tgt Ion: 95 Resp: 94516

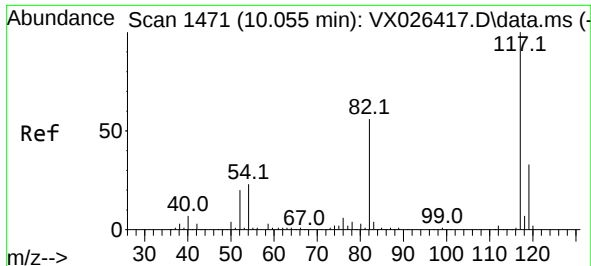
Ion Ratio Lower Upper

95 100

174 76.4 0.0 148.6

176 73.5 0.0 141.4

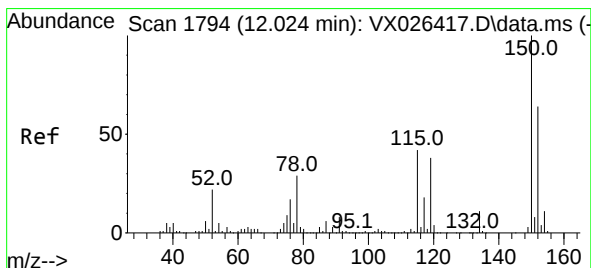
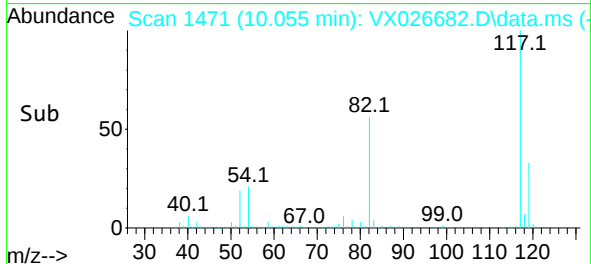
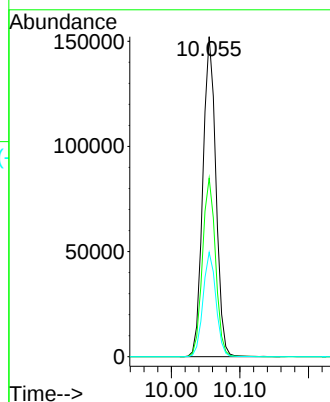
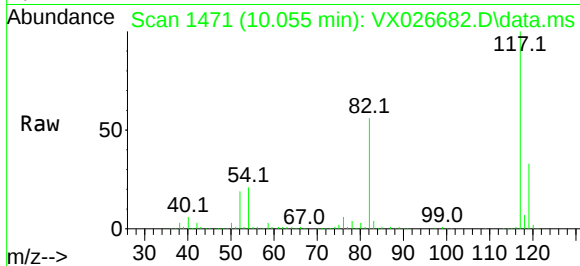




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

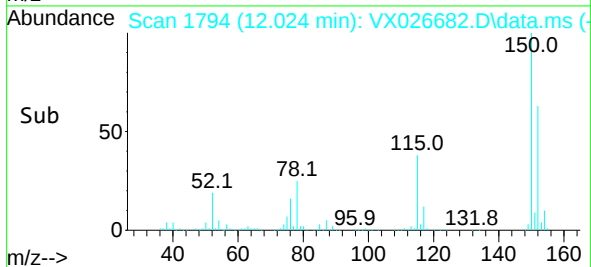
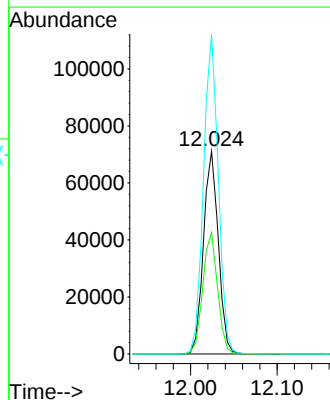
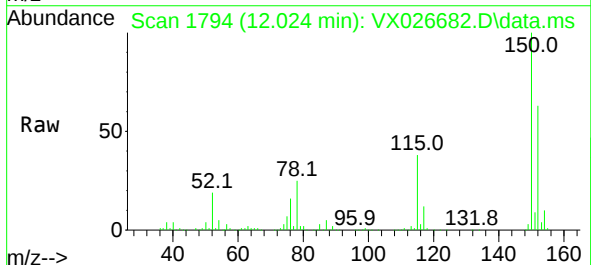
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

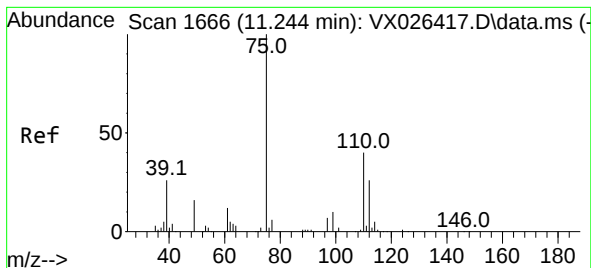
Tgt Ion:117 Resp: 202413  
Ion Ratio Lower Upper  
117 100  
82 55.8 45.2 67.8  
119 32.6 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion:152 Resp: 84587  
Ion Ratio Lower Upper  
152 100  
115 59.8 44.2 132.6  
150 157.7 0.0 348.2

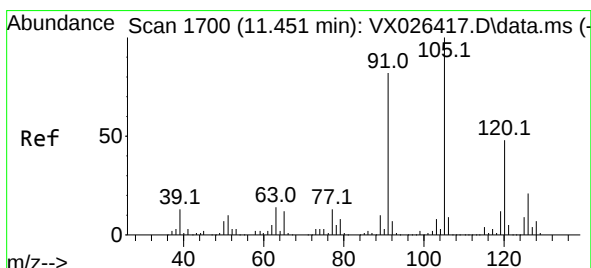
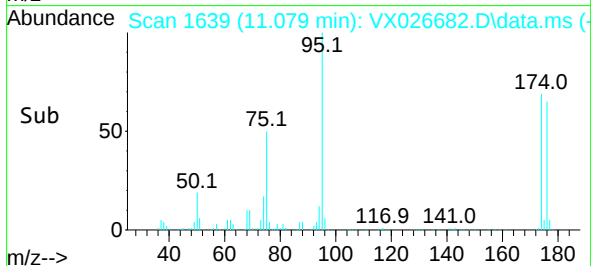
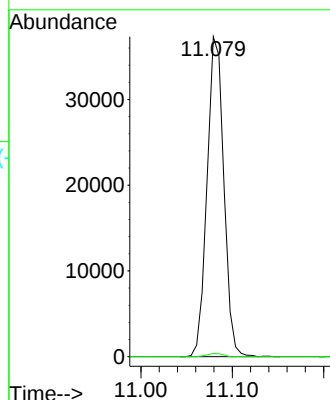
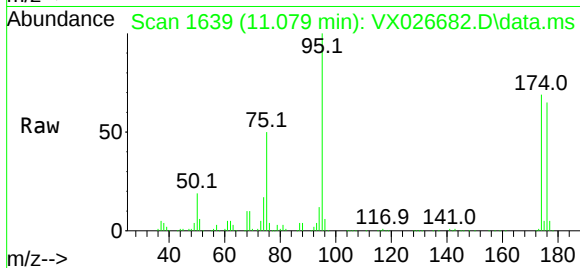




#76  
1,2,3-Trichloropropane  
Concen: 25.440 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.165 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

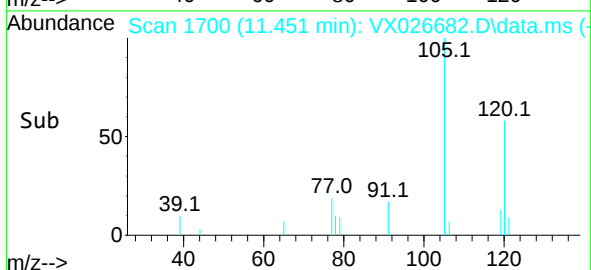
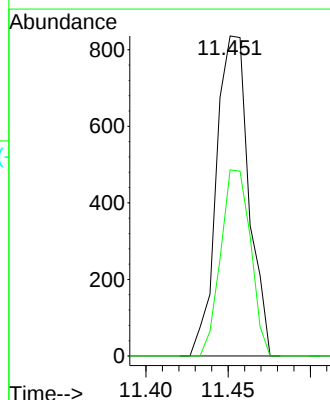
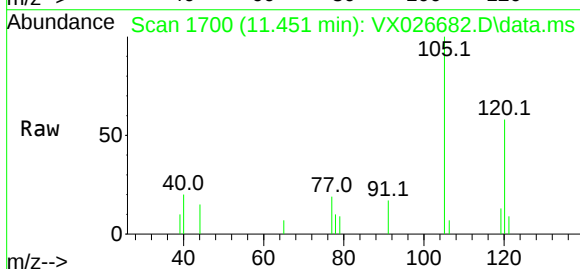
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142369ZHE#05

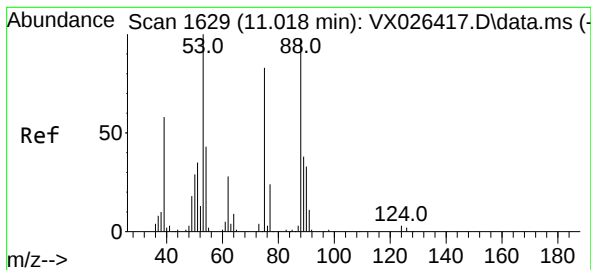
Tgt Ion: 75 Resp: 47380  
Ion Ratio Lower Upper  
75 100  
77 0.9 18.3 54.8#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.200 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX026682.D  
Acq: 31 Jan 2022 15:54

Tgt Ion: 105 Resp: 1146  
Ion Ratio Lower Upper  
105 100  
120 53.5 24.0 72.0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 77.240 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX026682.D  
 Acq: 31 Jan 2022 15:54

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB142369ZHE#05

Tgt Ion: 75 Resp: 47380  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 94.0 141.0#  
 89 0.0 37.0 55.4#

