

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052523\  
 Data File : VX035880.D  
 Acq On : 26 May 2023 03:12  
 Operator : JC/MD  
 Sample : 02906-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OF-1

Quant Time: May 26 09:22:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X052323W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue May 23 11:36:37 2023  
 Response via : Initial Calibration

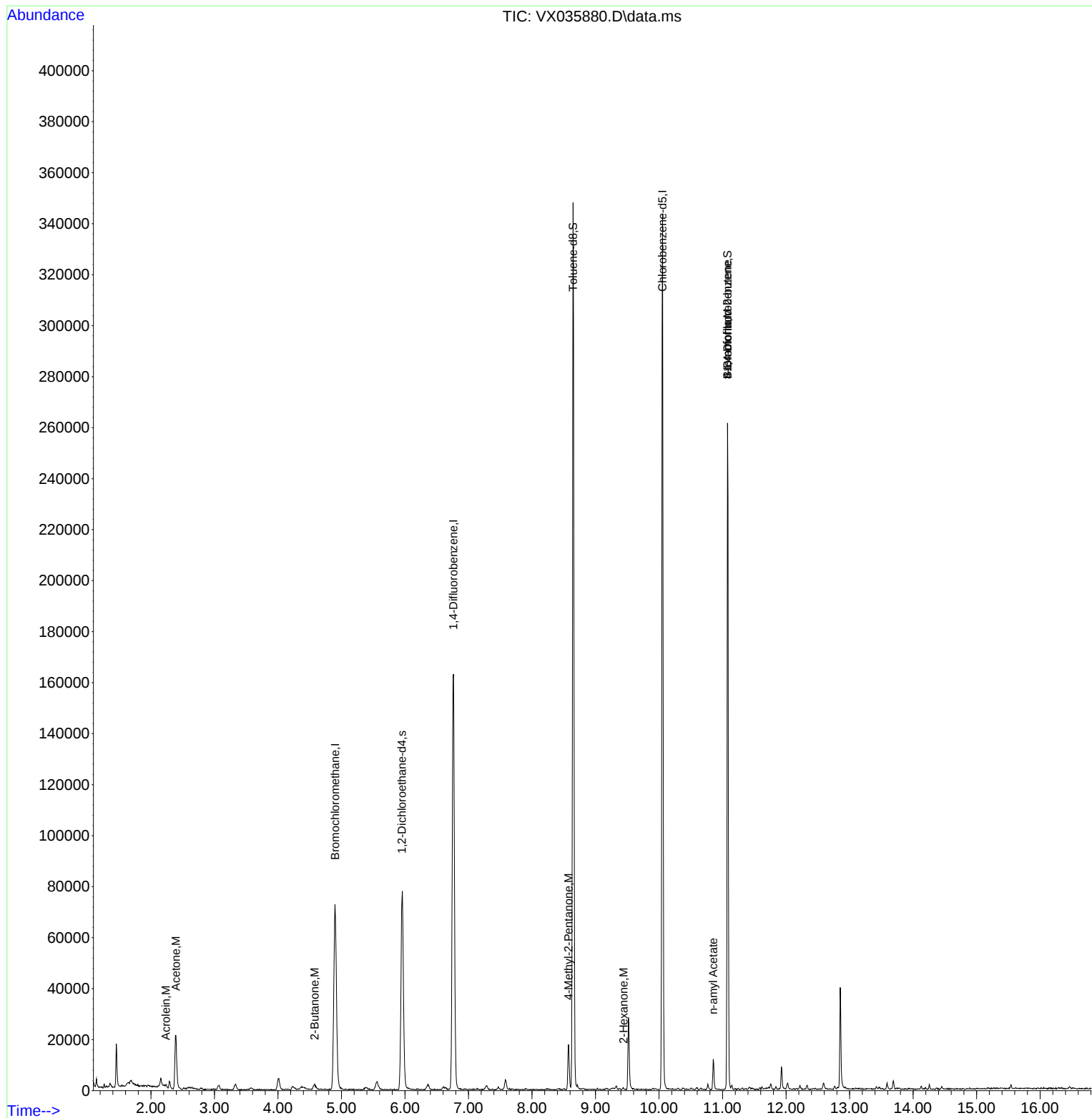
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.897  | 128   | 28357    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 163513   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 144849   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65    | 74779    | 31.738   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 105.800% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 66204    | 27.238   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 90.800%  |
| 63) Toluene-d8              | 8.646  | 98    | 196950   | 30.756   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 102.533% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 13) Acrolein                | 2.233  | 56    | 716      | 2.255    | ug/l # | 66       |
| 15) Acetone                 | 2.392  | 58    | 8193     | 27.204   | ug/l   | 95       |
| 30) 2-Butanone              | 4.574  | 43    | 3399     | 2.280    | ug/l # | 87       |
| 47) n-amyl Acetate          | 10.853 | 43    | 1835     | 0.471    | ug/l # | 1        |
| 56) Bromoform               | 11.079 | 173   | 606      | 0.545    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.573  | 43    | 10687    | 3.798    | ug/l   | 97       |
| 59) 2-Hexanone              | 9.439  | 43    | 570      | 0.269    | ug/l # | 69       |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 35693    | 47.574   | ug/l # | 4        |
| -----                       |        |       |          |          |        |          |

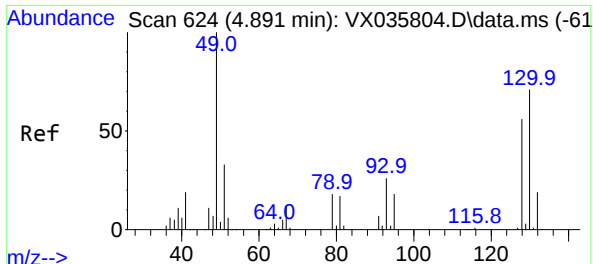
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
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Quant Time: May 26 09:22:54 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X052323W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue May 23 11:36:37 2023  
Response via : Initial Calibration

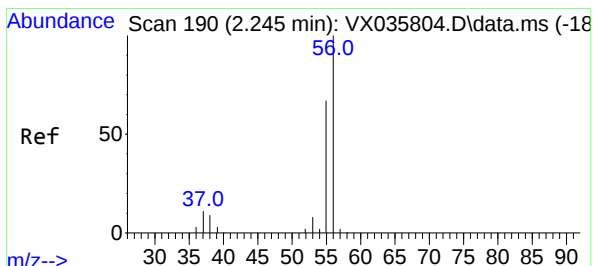
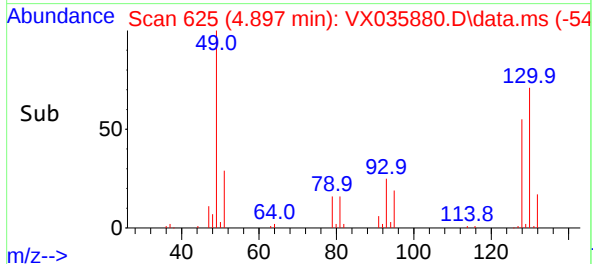
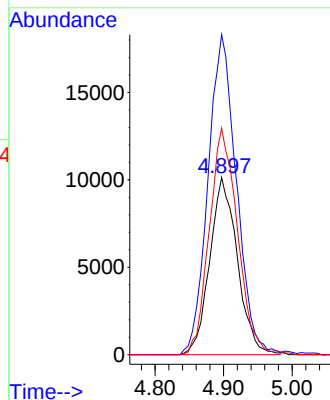
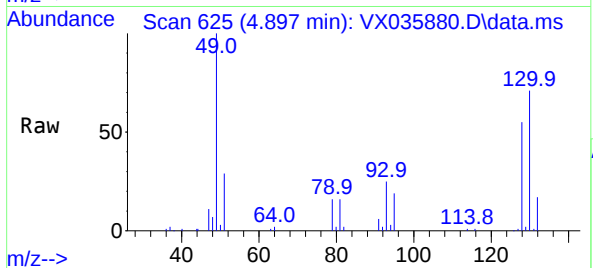




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.897 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

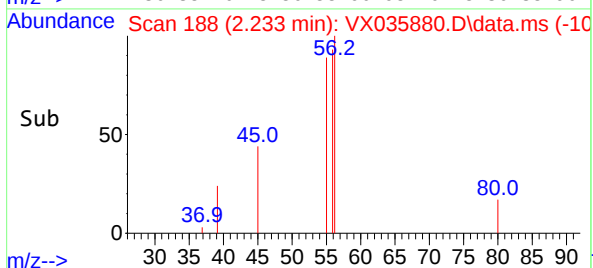
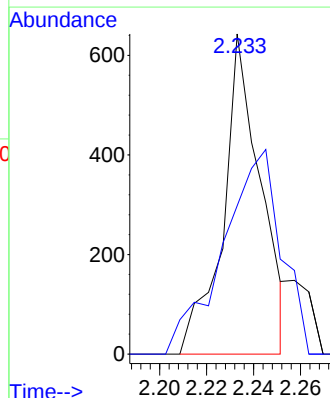
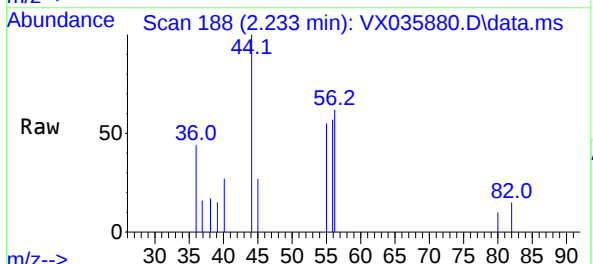
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-1

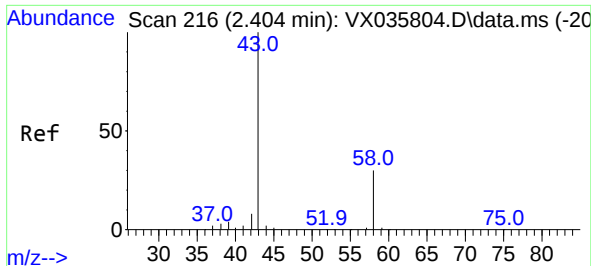
Tgt Ion:128 Resp: 28357  
Ion Ratio Lower Upper  
128 100  
49 185.1 0.0 428.8  
130 130.2 0.0 310.8



#13  
Acrolein  
Concen: 2.255 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.012 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

Tgt Ion: 56 Resp: 716  
Ion Ratio Lower Upper  
56 100  
55 98.7 56.6 85.0#

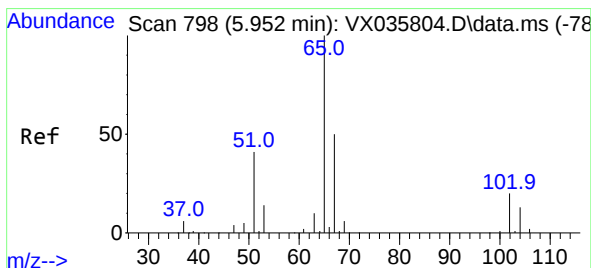
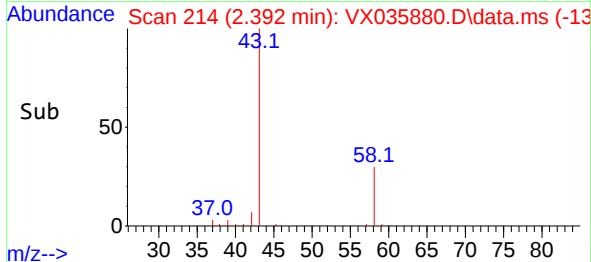
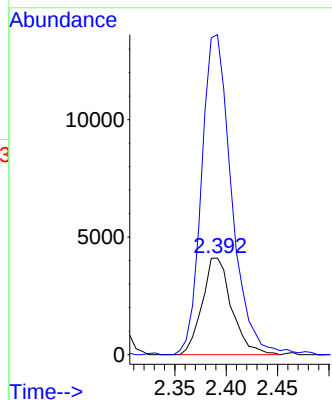
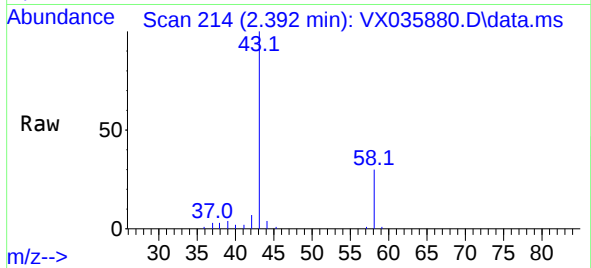




#15  
Acetone  
Concen: 27.204 ug/l  
RT: 2.392 min Scan# 216  
Delta R.T. -0.012 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

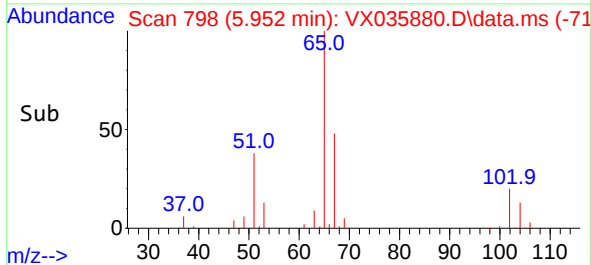
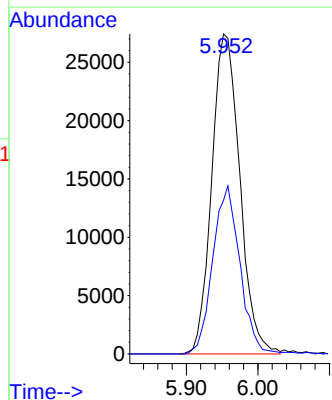
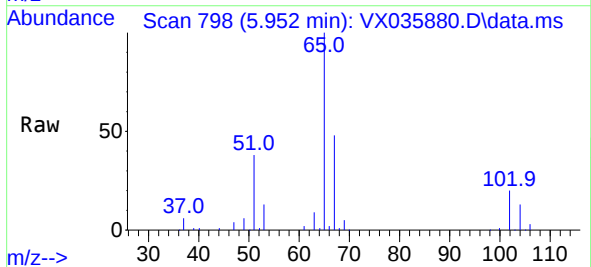
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-1

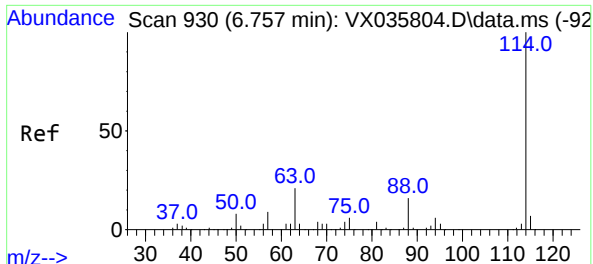
Tgt Ion: 58 Resp: 8193  
Ion Ratio Lower Upper  
58 100  
43 327.0 270.8 406.2



#27  
1,2-Dichloroethane-d4  
Concen: 31.738 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

Tgt Ion: 65 Resp: 74779  
Ion Ratio Lower Upper  
65 100  
67 50.5 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX035880.D

Acq: 26 May 2023 03:12

Instrument :

MSVOA\_X

ClientSampleId :

OF-1

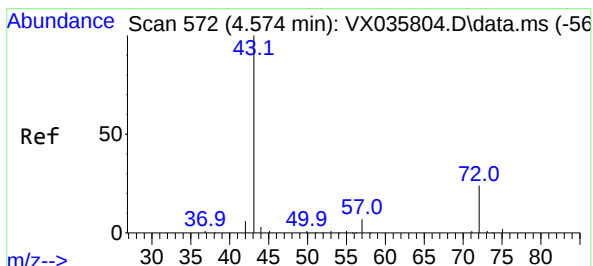
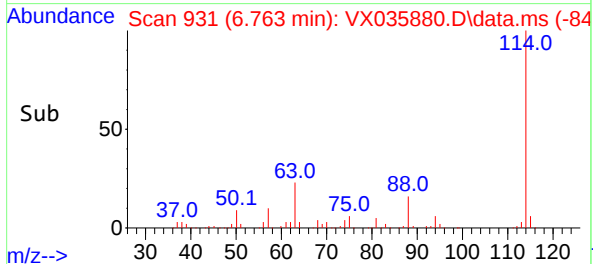
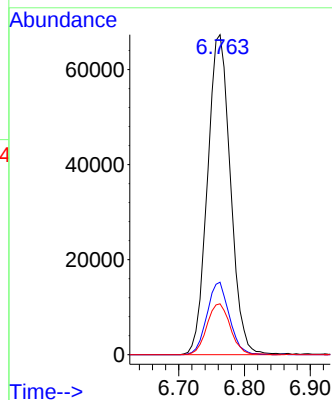
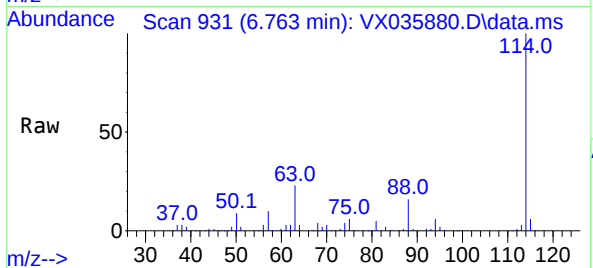
Tgt Ion:114 Resp: 163513

Ion Ratio Lower Upper

114 100

63 22.0 18.0 27.0

88 16.1 13.3 19.9



#30

2-Butanone

Concen: 2.280 ug/l

RT: 4.574 min Scan# 572

Delta R.T. -0.000 min

Lab File: VX035880.D

Acq: 26 May 2023 03:12

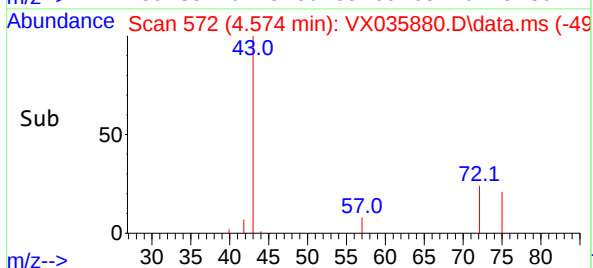
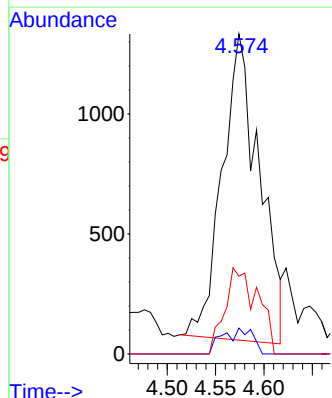
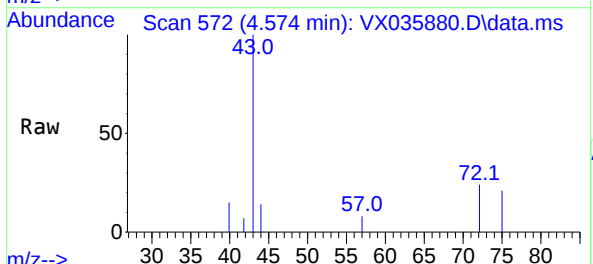
Tgt Ion: 43 Resp: 3399

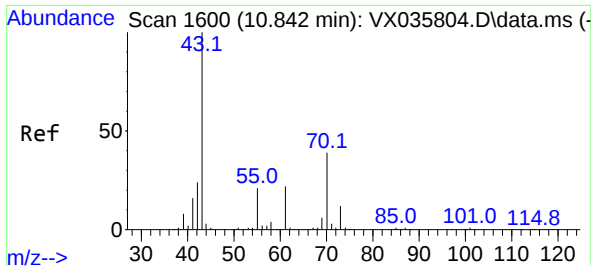
Ion Ratio Lower Upper

43 100

57 3.7 6.3 9.5#

72 17.8 19.6 29.4#





#47

n-amyl acetate

Concen: 0.471 ug/l

RT: 10.853 min Scan# 1602

Delta R.T. 0.012 min

Lab File: VX035880.D

Acq: 26 May 2023 03:12

Instrument :

MSVOA\_X

ClientSampleId :

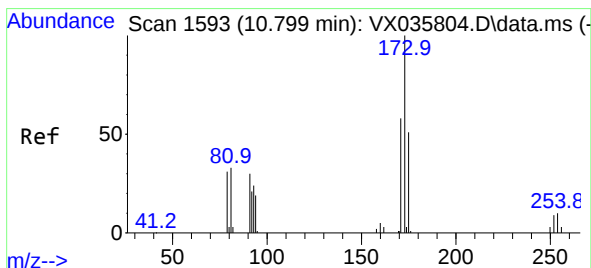
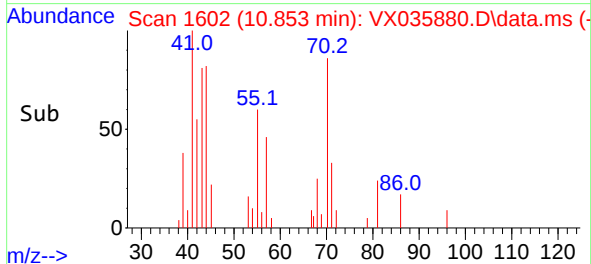
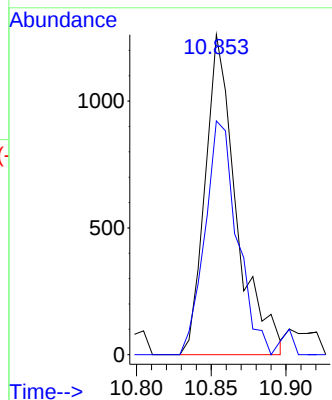
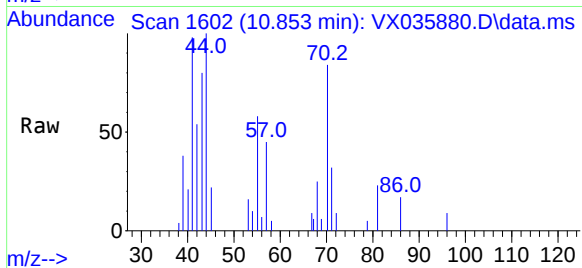
OF-1

Tgt Ion: 43 Resp: 1835

Ion Ratio Lower Upper

43 100

55 75.4 18.6 28.0#



#56

Bromoform

Concen: 0.545 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX035880.D

Acq: 26 May 2023 03:12

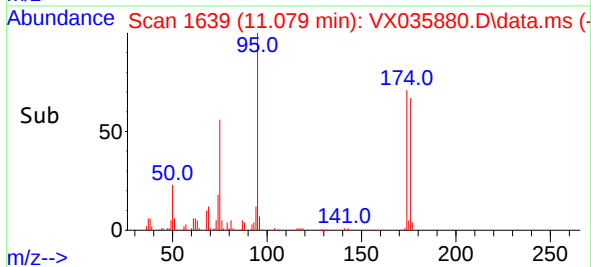
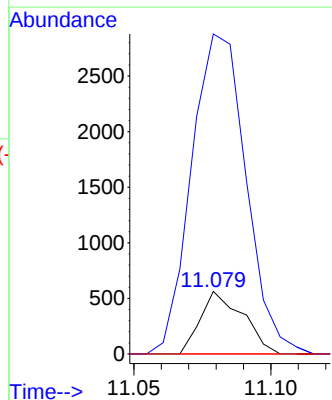
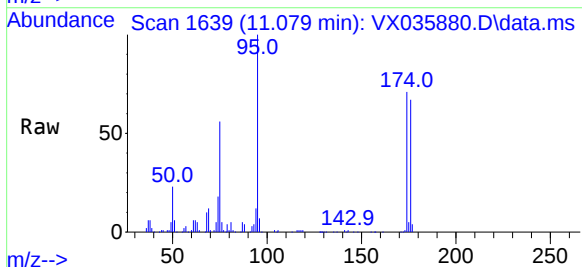
Tgt Ion: 173 Resp: 606

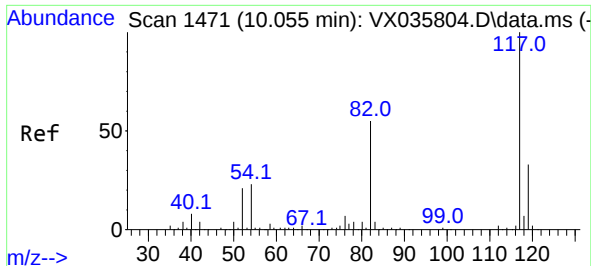
Ion Ratio Lower Upper

173 100

175 658.4 37.0 55.4#

254 0.0 6.7 10.1#

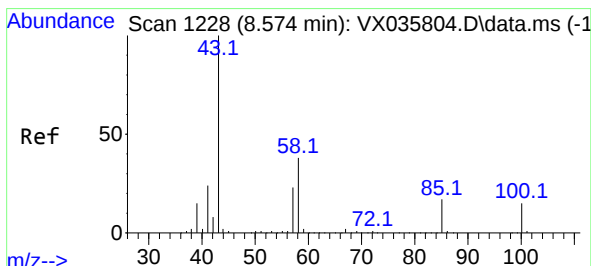
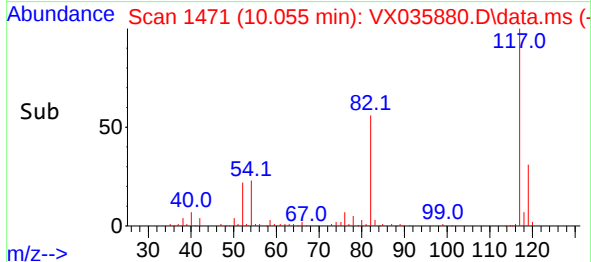
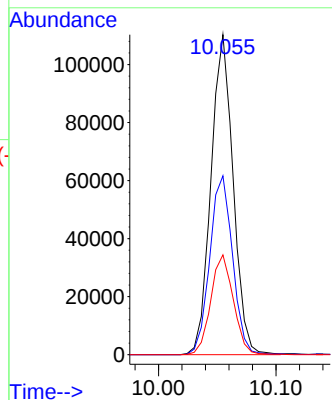
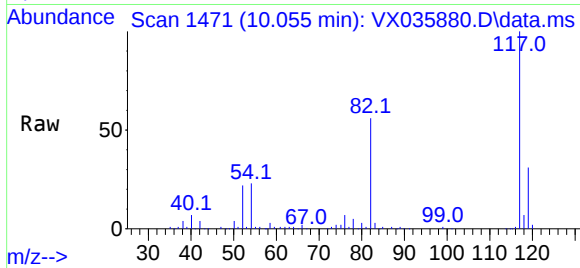




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

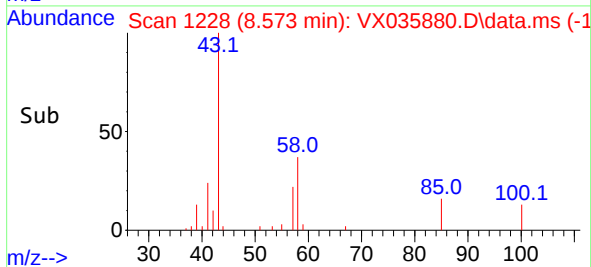
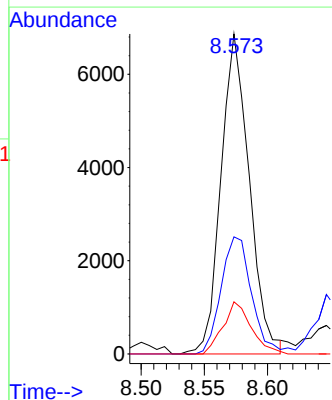
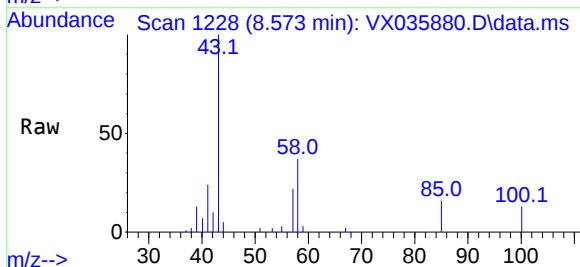
Instrument :  
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ClientSampleId :  
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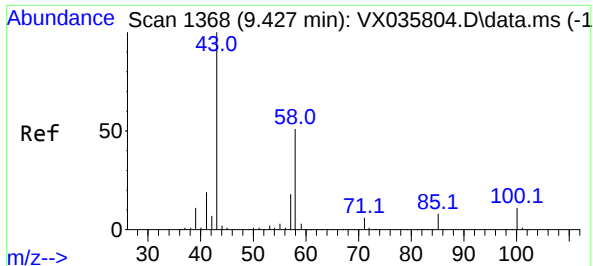
Tgt Ion: 117 Resp: 144849  
Ion Ratio Lower Upper  
117 100  
82 57.6 45.8 68.8  
119 31.8 25.4 38.0



#58  
4-Methyl-2-Pentanone  
Concen: 3.798 ug/l  
RT: 8.573 min Scan# 1228  
Delta R.T. -0.000 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

Tgt Ion: 43 Resp: 10687  
Ion Ratio Lower Upper  
43 100  
58 39.9 29.9 44.9  
85 16.3 13.2 19.8

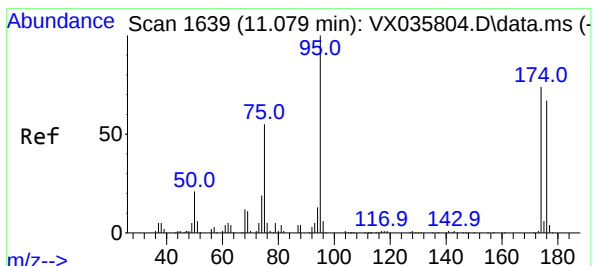
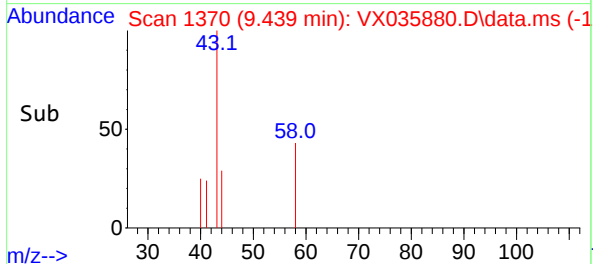
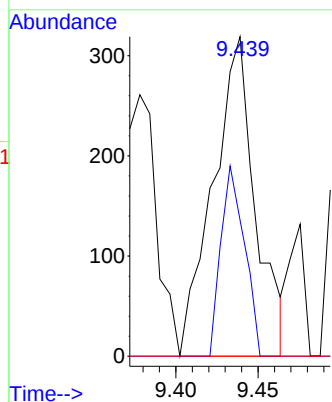
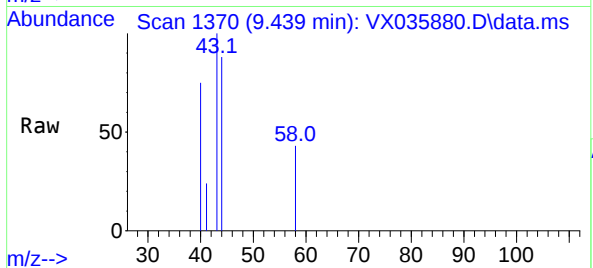




#59  
2-Hexanone  
Concen: 0.269 ug/l  
RT: 9.439 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

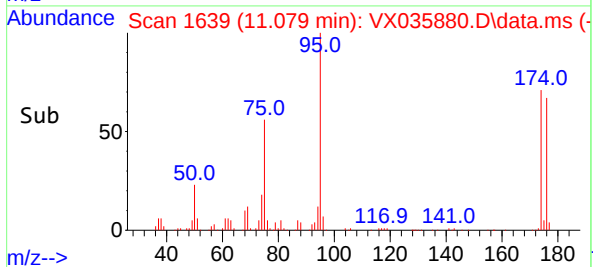
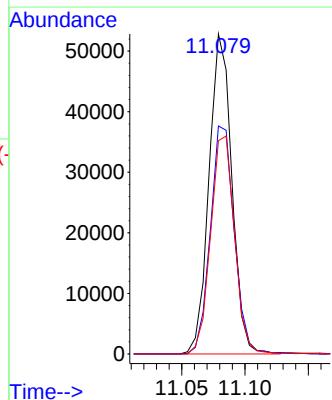
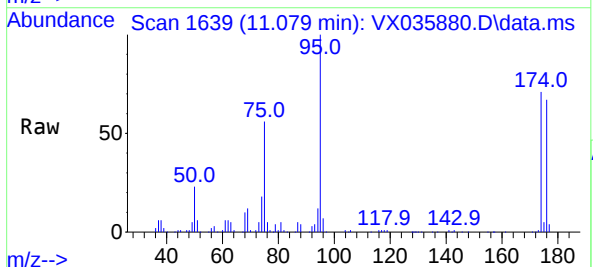
Instrument :  
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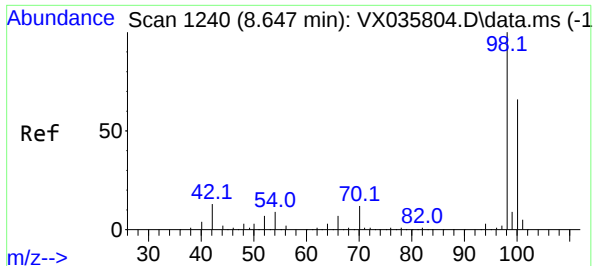
Tgt Ion: 43 Resp: 570  
Ion Ratio Lower Upper  
43 100  
58 33.2 41.7 62.5#  
57 0.0 14.7 22.1#



#60  
4-Bromofluorobenzene  
Concen: 27.238 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

Tgt Ion: 95 Resp: 66204  
Ion Ratio Lower Upper  
95 100  
174 74.8 0.2 0.4#  
176 71.3 0.2 0.2#

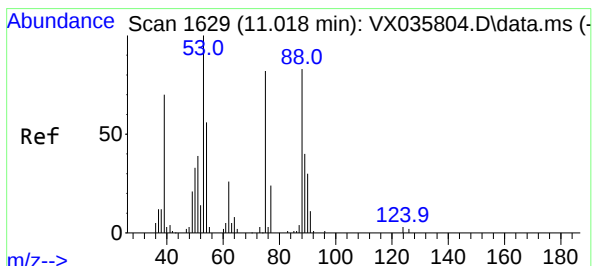
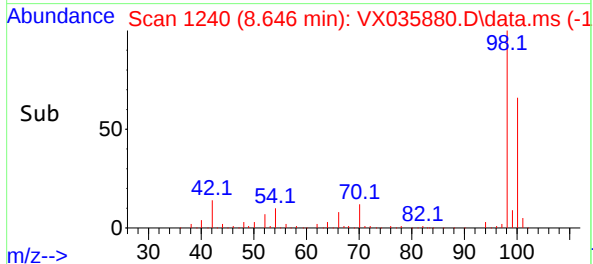
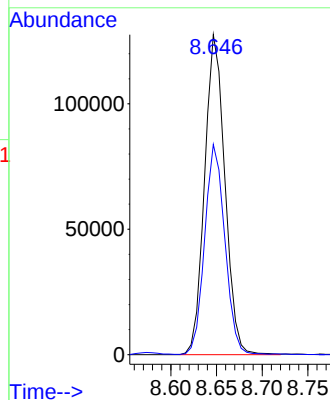
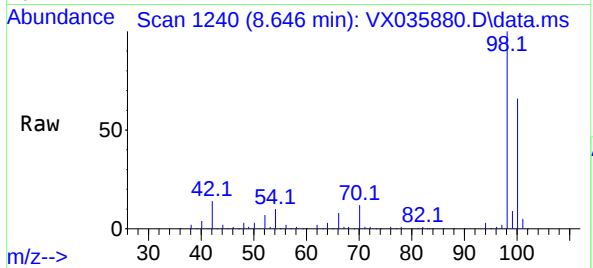




#63  
Toluene-d8  
Concen: 30.756 ug/l  
RT: 8.646 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Tgt Ion: 98 Resp: 196950  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.1 78.1



#77  
t-1,4-Dichloro-2-butene  
Concen: 47.574 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX035880.D  
Acq: 26 May 2023 03:12

Tgt Ion: 75 Resp: 35693  
Ion Ratio Lower Upper  
75 100  
53 0.0 58.2 174.6#  
89 0.0 20.6 61.8#

