

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101623\  
 Data File : VX038313.D  
 Acq On : 16 Oct 2023 18:50  
 Operator : JC/MD  
 Sample : 04899-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 17 01:27:15 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

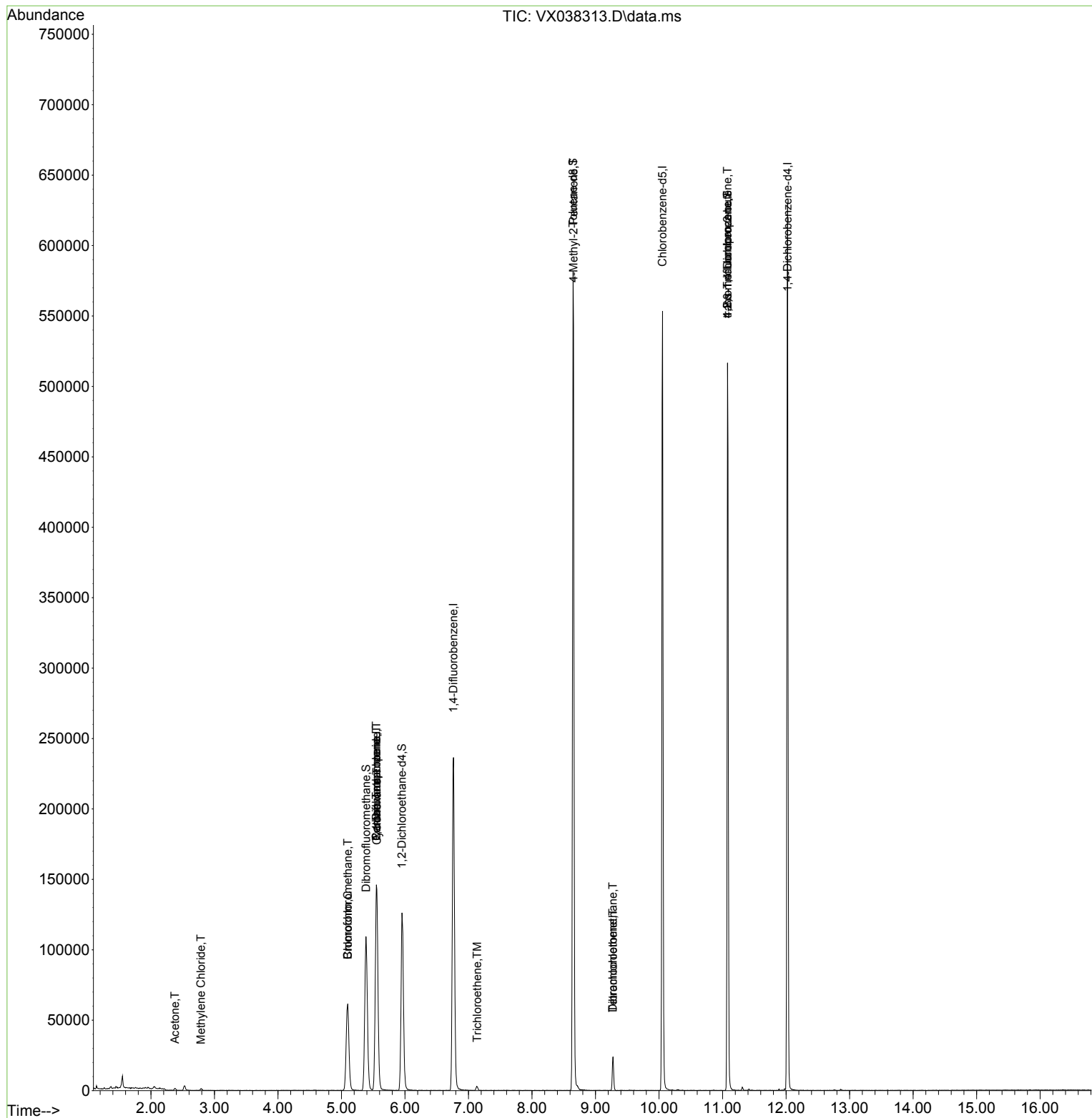
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 140095   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 241631   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 243013   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 126469   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 118327   | 52.512    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | = 105.020% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 91696    | 52.665    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 105.340% |          |
| 50) Toluene-d8                | 8.647  | 98    | 346730   | 52.115    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | = 104.220% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 129675   | 51.412    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 102.820% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 1.611  | 94    | 45       | Below Cal | #          | 40       |
| 6) Chloroethane               | 1.666  | 64    | 108      | Below Cal | #          | 43       |
| 16) Acetone                   | 2.379  | 43    | 1587     | 1.688     | ug/l #     | 88       |
| 20) Methylene Chloride        | 2.788  | 84    | 519      | 0.293     | ug/l #     | 70       |
| 28) Bromochloromethane        | 5.098  | 49    | 6035     | 4.585     | ug/l #     | 16       |
| 30) Chloroform                | 5.098  | 83    | 75089    | 23.548    | ug/l       | 97       |
| 31) Cyclohexane               | 5.556  | 56    | 3302     | 1.353     | ug/l #     | 21       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11409    | 4.752     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 14463    | 6.123     | ug/l #     | 16       |
| 44) Trichloroethene           | 7.135  | 130   | 1245     | 0.709     | ug/l       | 74       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1454     | 0.495     | ug/l #     | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 4026     | 2.199     | ug/l #     | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 4079     | 2.593     | ug/l       | 97       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 71877    | 25.000    | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 71877    | 71.142    | ug/l #     | 5        |
| -----                         |        |       |          |           |            |          |

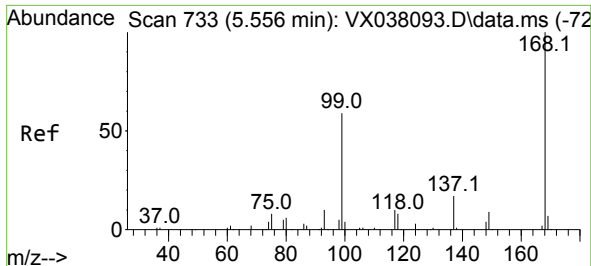
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101623\  
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Sample : 04899-12  
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Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Oct 17 01:27:15 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration

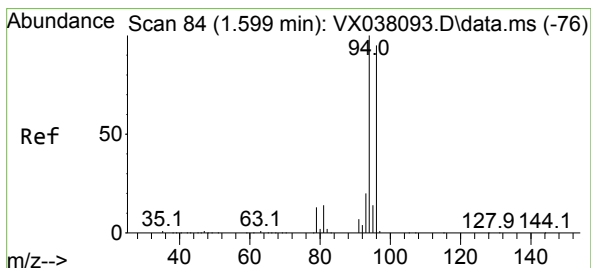
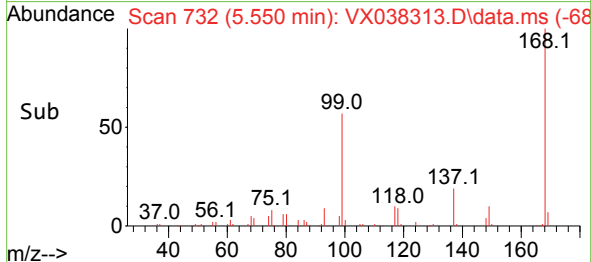
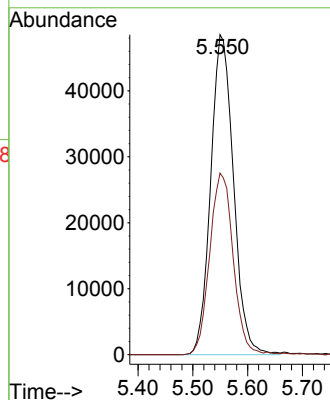
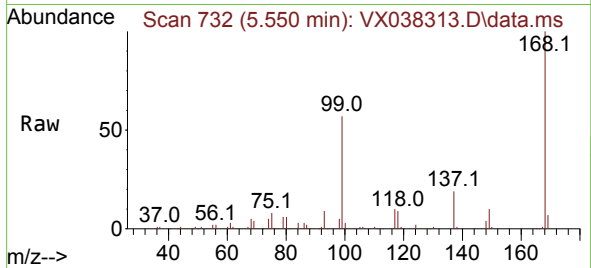




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

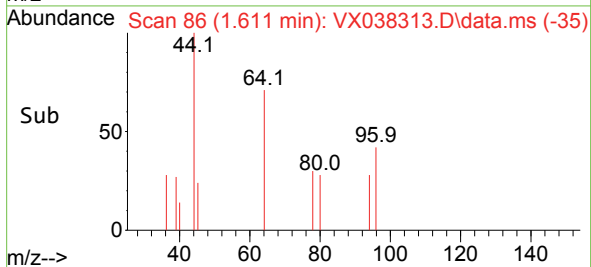
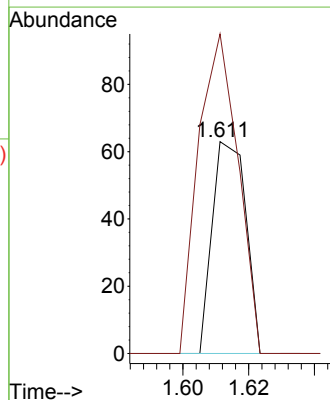
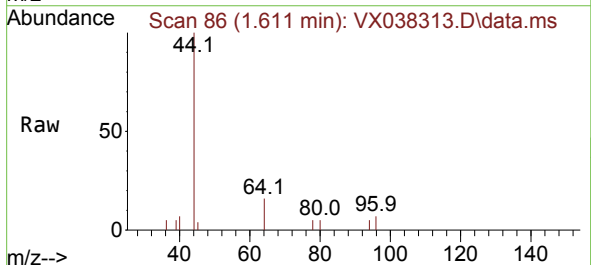
Instrument :  
MSVOA\_X  
ClientSampleId :

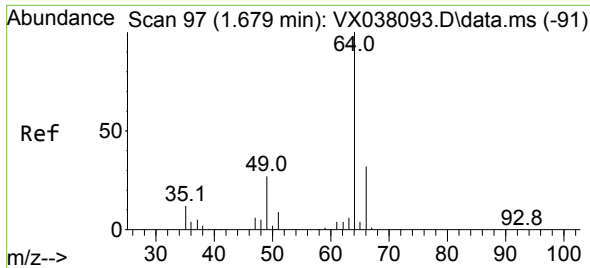
Tgt Ion:168 Resp: 140095  
Ion Ratio Lower Upper  
168 100  
99 56.8 56.6 85.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Tgt Ion: 94 Resp: 45  
Ion Ratio Lower Upper  
94 100  
96 150.8 74.6 111.8#

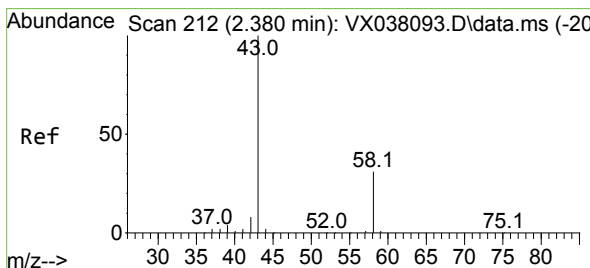
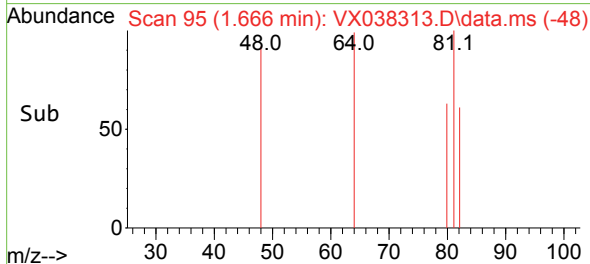
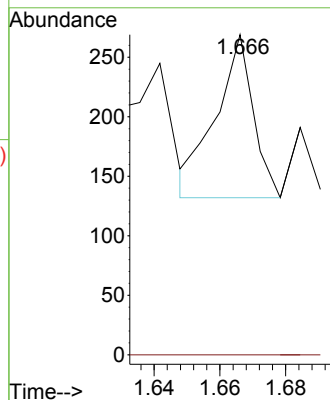
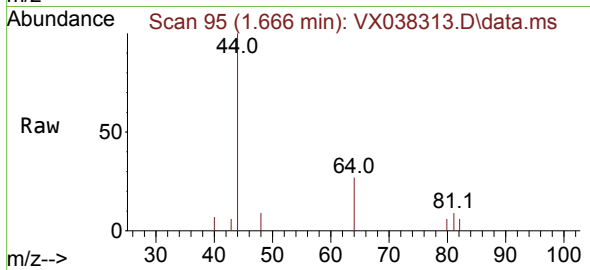




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.666 min Scan# 91  
Delta R.T. -0.013 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

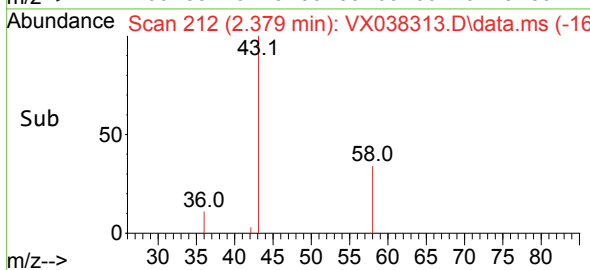
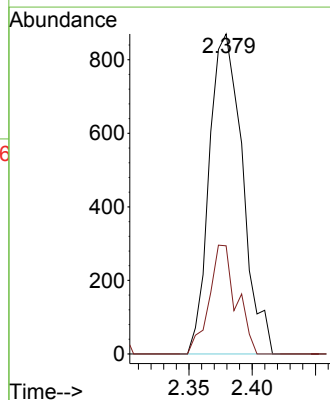
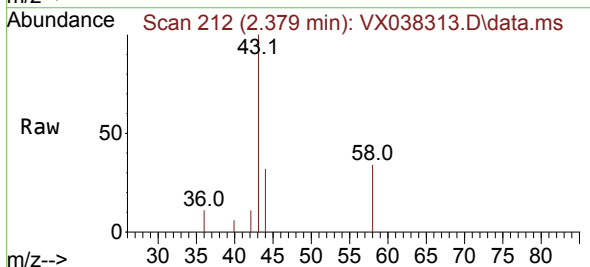
Instrument :  
MSVOA\_X  
ClientSampleId :

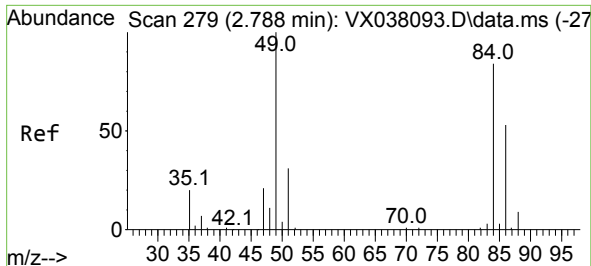
Tgt Ion: 64 Resp: 108  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#16  
Acetone  
Concen: 1.688 ug/l  
RT: 2.379 min Scan# 212  
Delta R.T. -0.001 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Tgt Ion: 43 Resp: 1587  
Ion Ratio Lower Upper  
43 100  
58 33.8 21.9 32.9#





#20

Methylene Chloride

Concen: 0.293 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

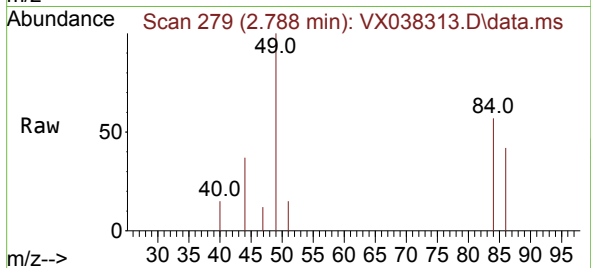
Lab File: VX038313.D

Acq: 16 Oct 2023 18:50

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 519

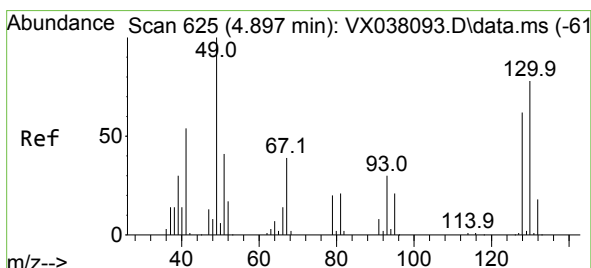
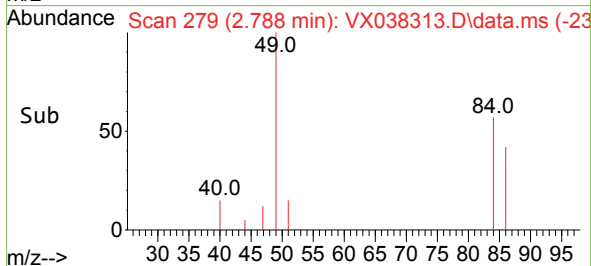
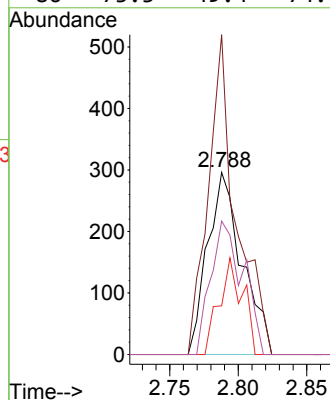
Ion Ratio Lower Upper

84 100

49 175.7 103.6 155.4#

51 26.7 33.8 50.6#

86 73.3 49.4 74.0



#28

Bromochloromethane

Concen: 4.585 ug/l

RT: 5.098 min Scan# 658

Delta R.T. 0.201 min

Lab File: VX038313.D

Acq: 16 Oct 2023 18:50

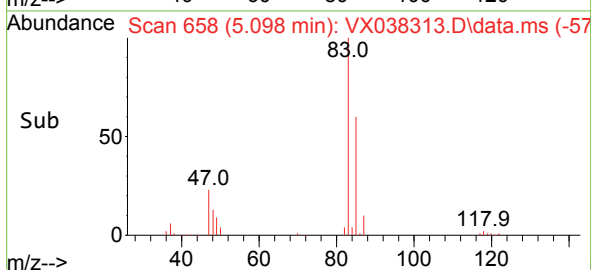
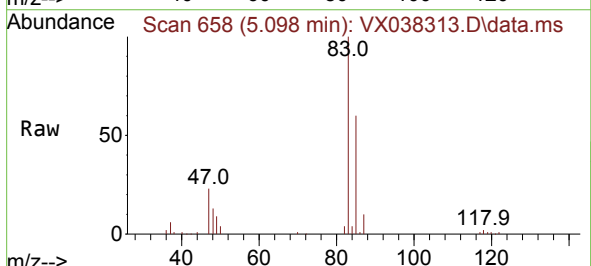
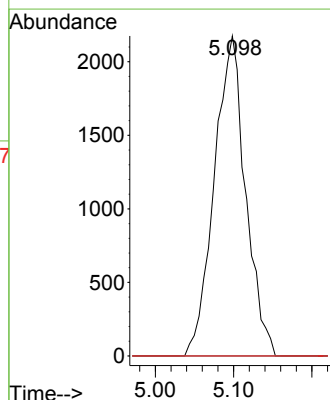
Tgt Ion: 49 Resp: 6035

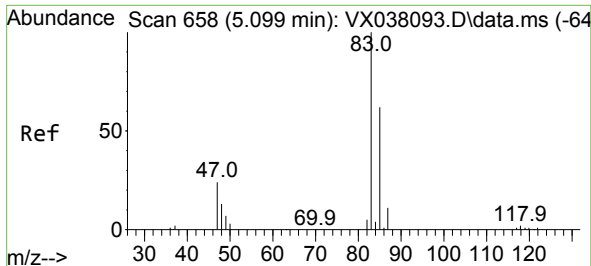
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 57.5 86.3#

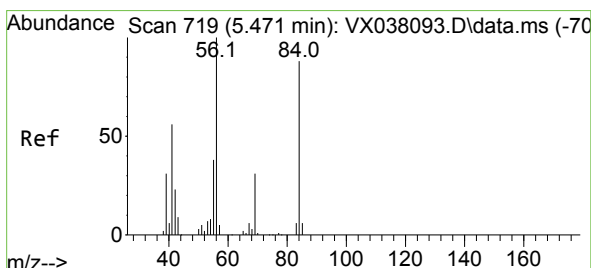
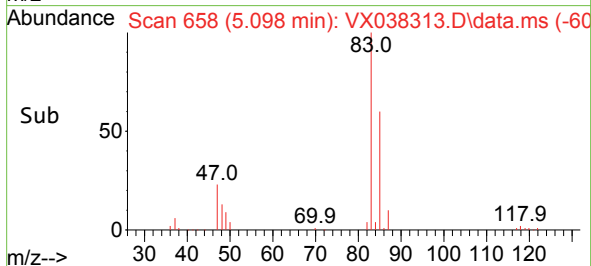
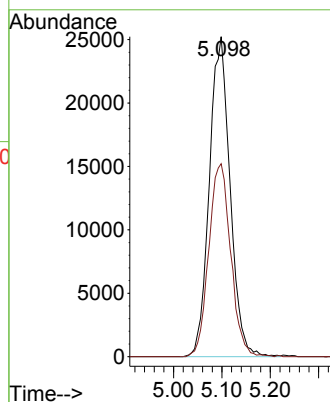
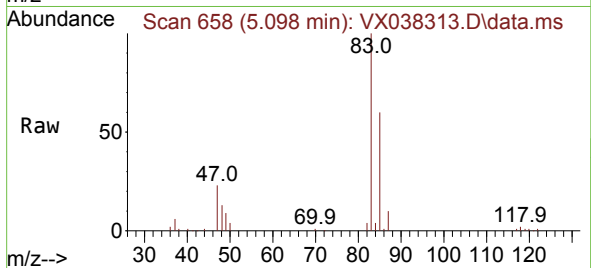




#30  
Chloroform  
Concen: 23.548 ug/l  
RT: 5.098 min Scan# 61  
Delta R.T. 0.005 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

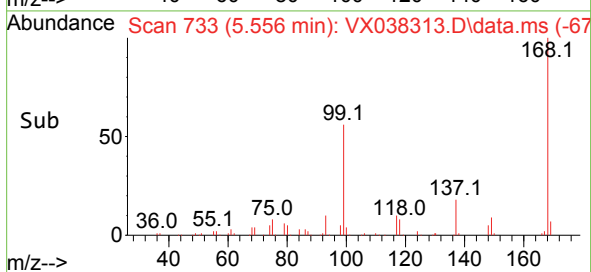
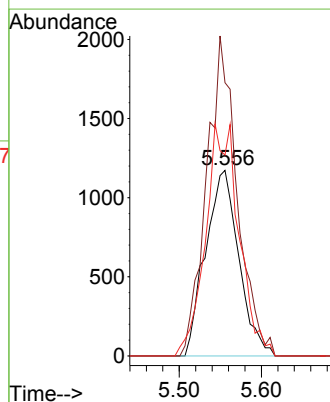
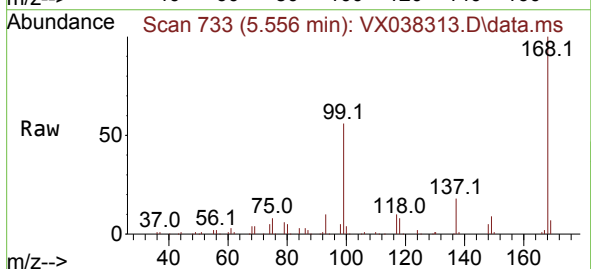
Instrument :  
MSVOA\_X  
ClientSampleId :

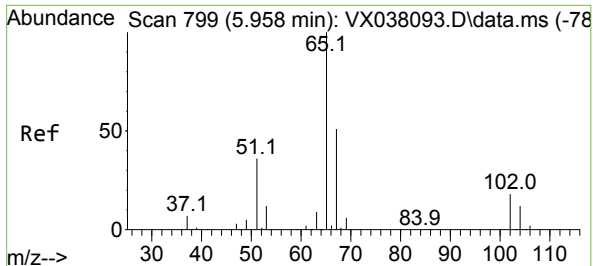
Tgt Ion: 83 Resp: 75089  
Ion Ratio Lower Upper  
83 100  
85 60.3 50.3 75.5



#31  
Cyclohexane  
Concen: 1.353 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Tgt Ion: 56 Resp: 3302  
Ion Ratio Lower Upper  
56 100  
69 147.2 23.4 35.2#  
84 108.3 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 52.512 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038313.D

Acq: 16 Oct 2023 18:50

Instrument :

MSVOA\_X

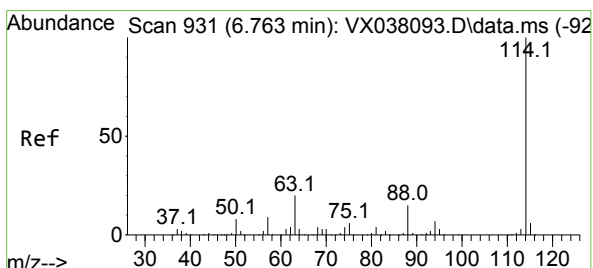
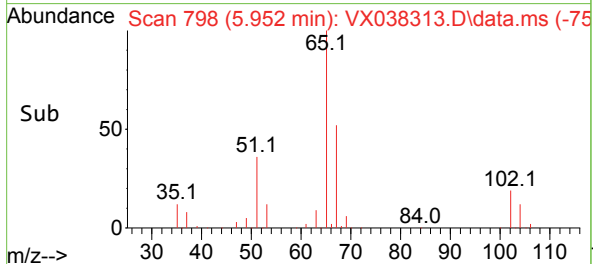
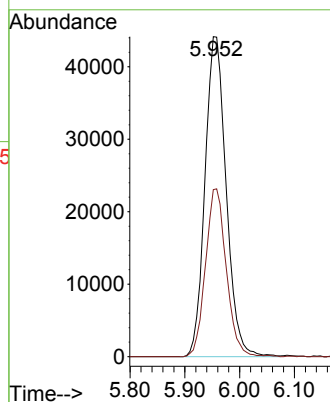
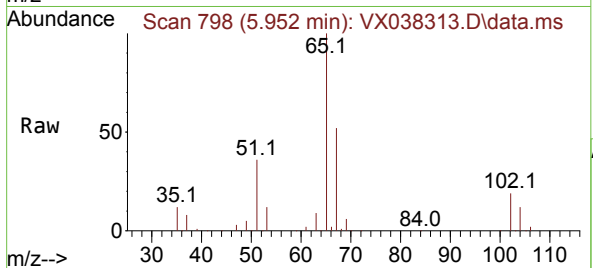
ClientSampleId :

Tgt Ion: 65 Resp: 118327

Ion Ratio Lower Upper

65 100

67 51.5 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX038313.D

Acq: 16 Oct 2023 18:50

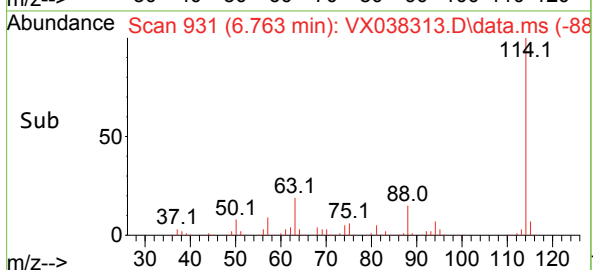
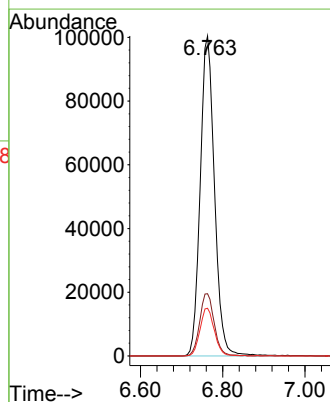
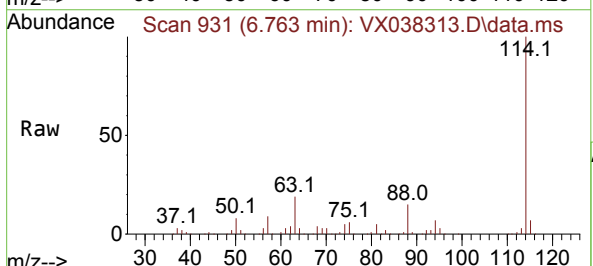
Tgt Ion:114 Resp: 241631

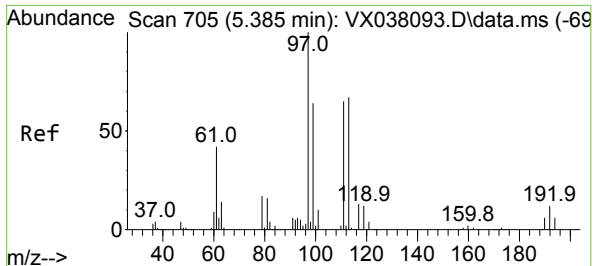
Ion Ratio Lower Upper

114 100

63 19.4 0.0 45.0

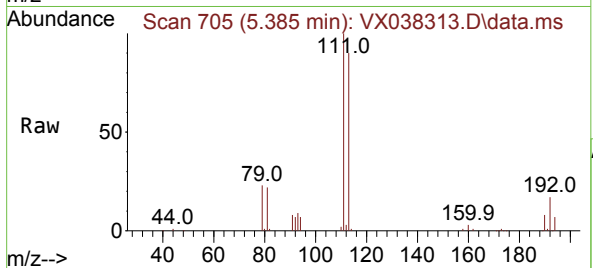
88 14.9 0.0 36.6



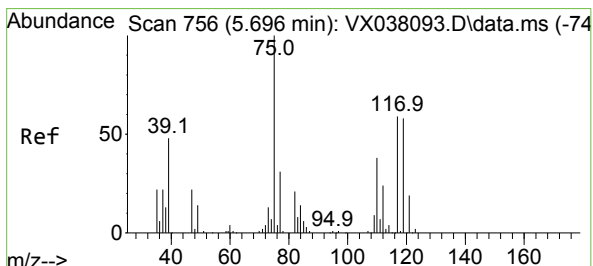
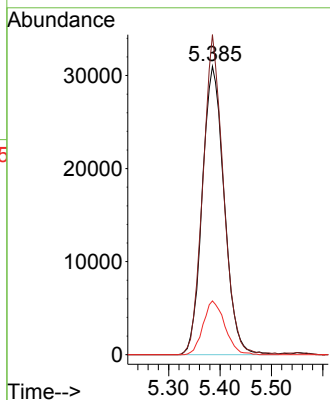
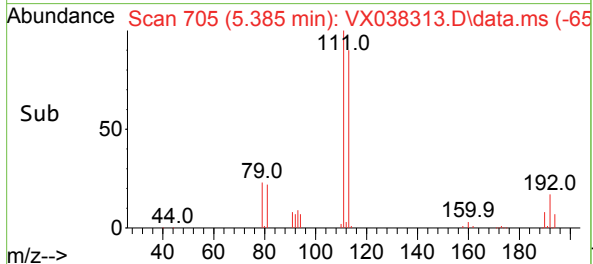


#35  
Dibromofluoromethane  
Concen: 52.665 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Instrument :  
MSVOA\_X  
ClientSampleId :

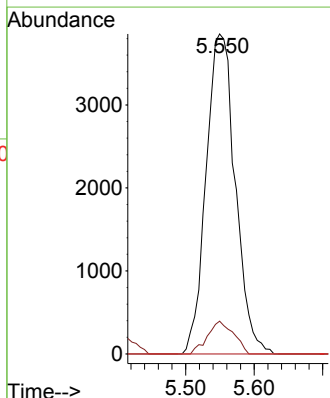
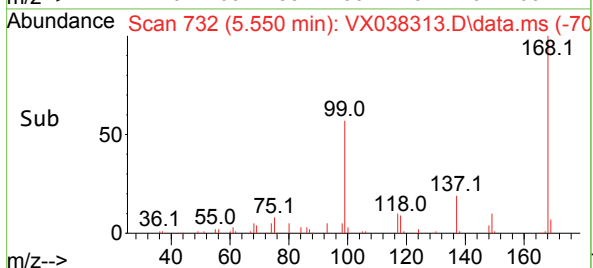
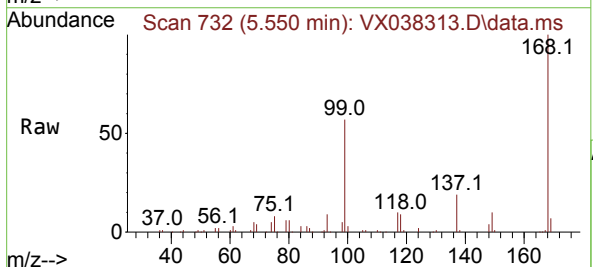


Tgt Ion:113 Resp: 91696  
Ion Ratio Lower Upper  
113 100  
111 103.8 82.9 124.3  
192 18.5 13.3 19.9

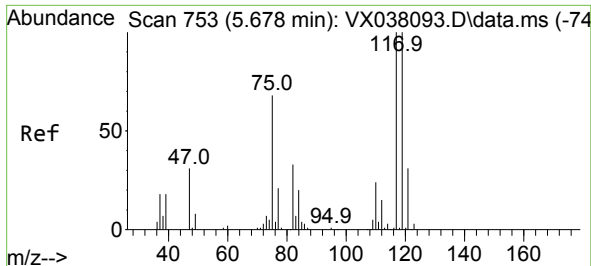


#36  
1,1-Dichloropropene  
Concen: 4.752 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Tgt Ion: 75 Resp: 11409  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.0 50.9#  
77 0.0 24.7 37.1#

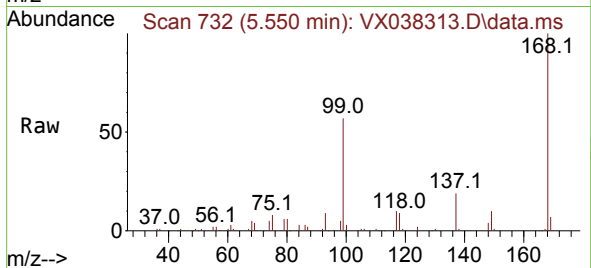




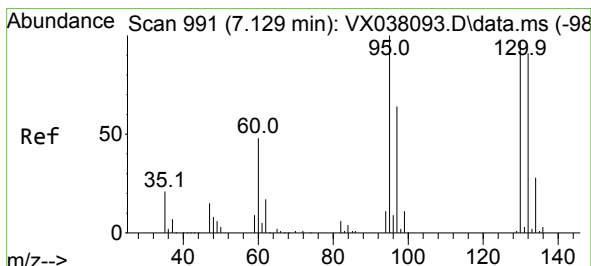
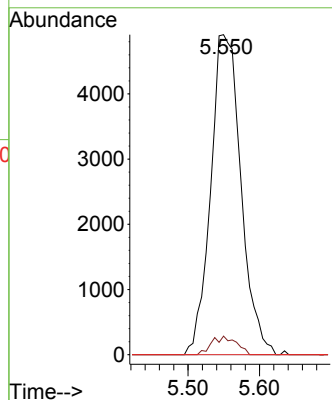
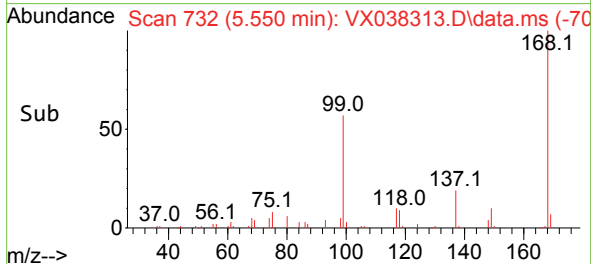


#38  
Carbon Tetrachloride  
Concen: 6.123 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Instrument :  
MSVOA\_X  
ClientSampleId :

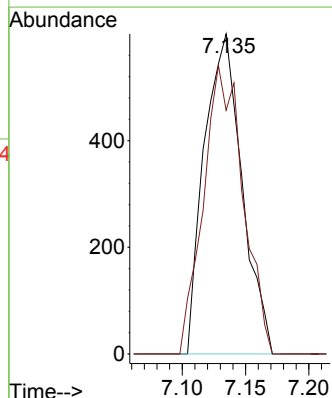
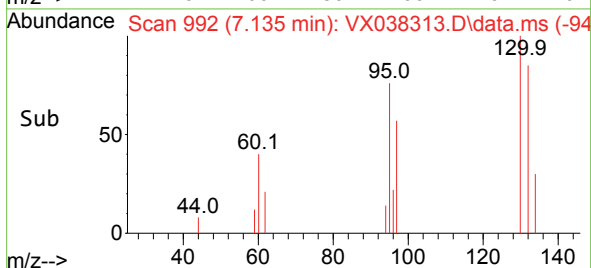
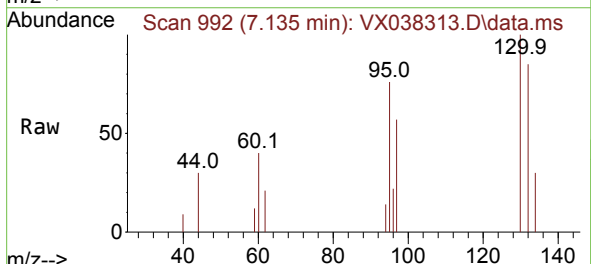


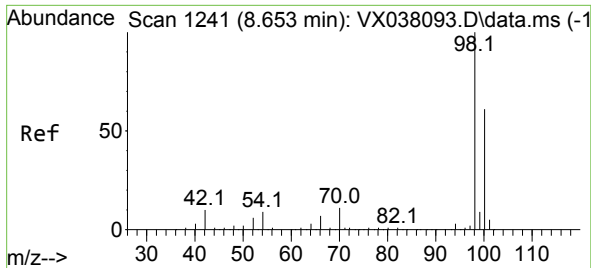
Tgt Ion:117 Resp: 14463  
Ion Ratio Lower Upper  
117 100  
119 5.8 78.2 117.2#  
121 0.0 24.4 36.6#



#44  
Trichloroethene  
Concen: 0.709 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. 0.006 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Tgt Ion:130 Resp: 1245  
Ion Ratio Lower Upper  
130 100  
95 76.2 0.0 204.4

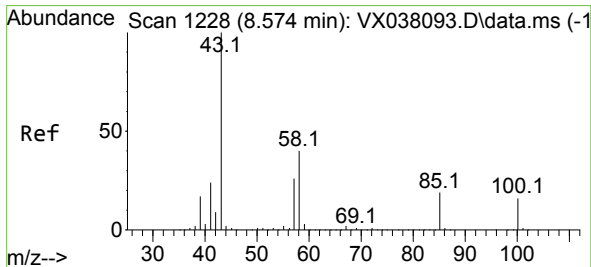
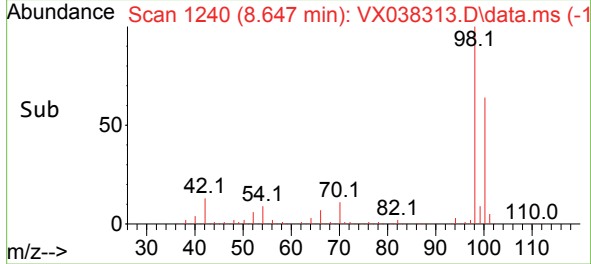
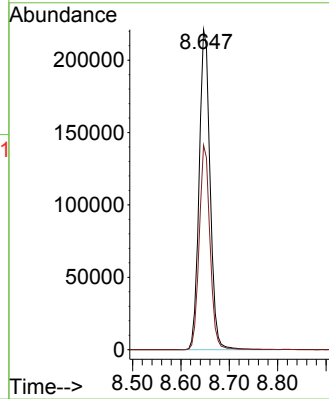
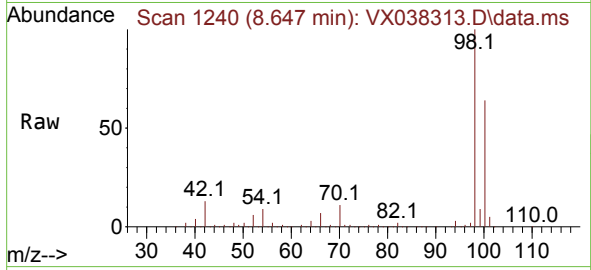




#50  
Toluene-d8  
Concen: 52.115 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

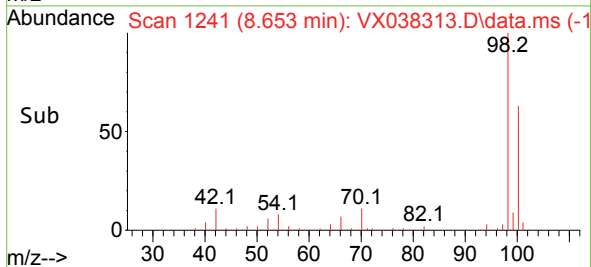
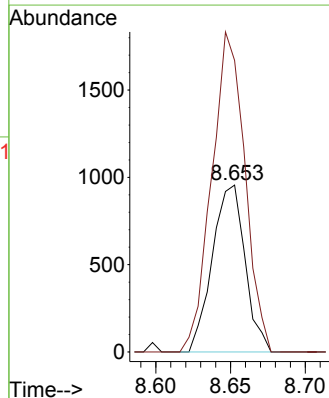
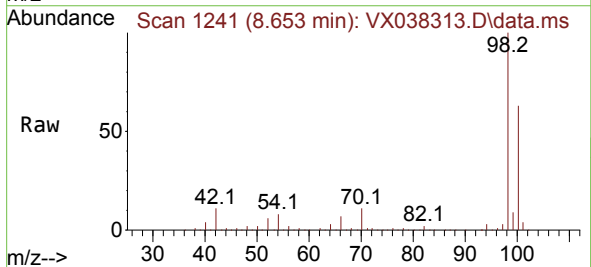
Instrument :  
MSVOA\_X  
ClientSampleId :

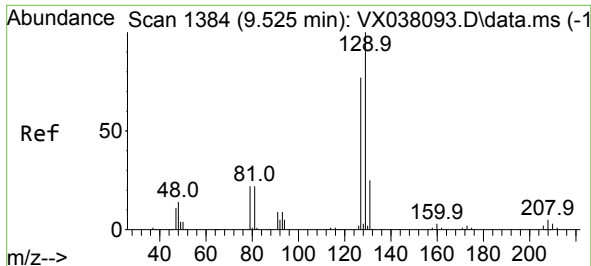
Tgt Ion: 98 Resp: 346730  
Ion Ratio Lower Upper  
98 100  
100 63.0 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.495 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.079 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Tgt Ion: 43 Resp: 1454  
Ion Ratio Lower Upper  
43 100  
58 194.6 30.4 45.6#

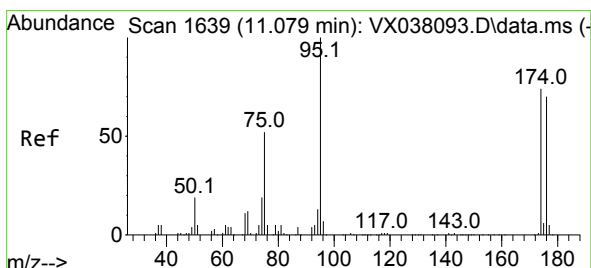
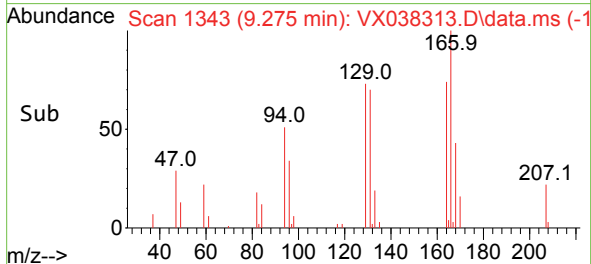
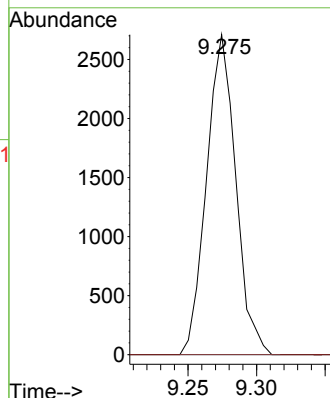
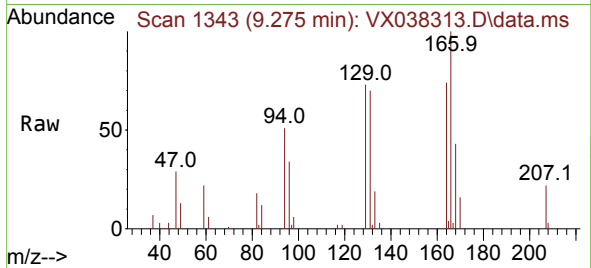




#60  
Dibromochloromethane  
Concen: 2.199 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

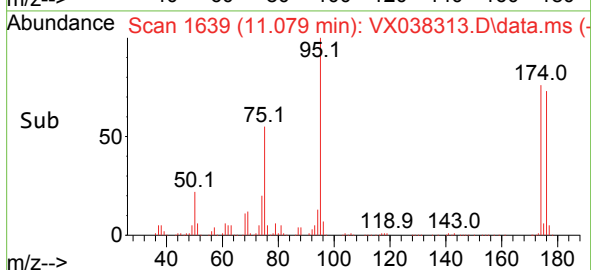
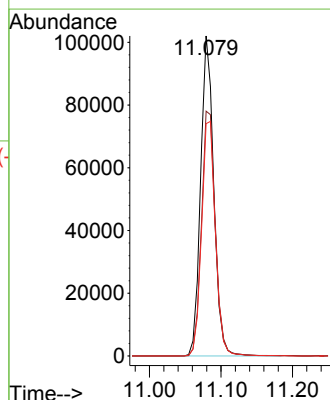
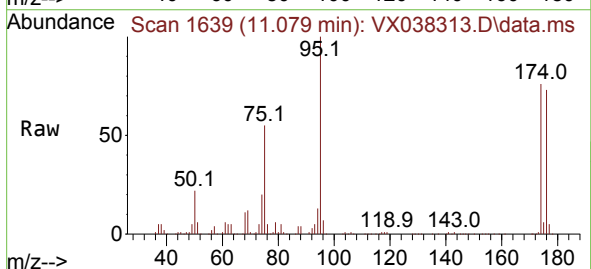
Instrument :  
MSVOA\_X  
ClientSampleId :

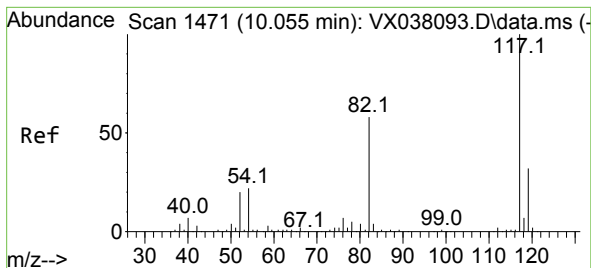
Tgt Ion:129 Resp: 4026  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 51.412 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038313.D  
Acq: 16 Oct 2023 18:50

Tgt Ion: 95 Resp: 129675  
Ion Ratio Lower Upper  
95 100  
174 81.3 0.0 135.6  
176 77.4 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX038313.D

Acq: 16 Oct 2023 18:50

Instrument :

MSVOA\_X

ClientSampleId :

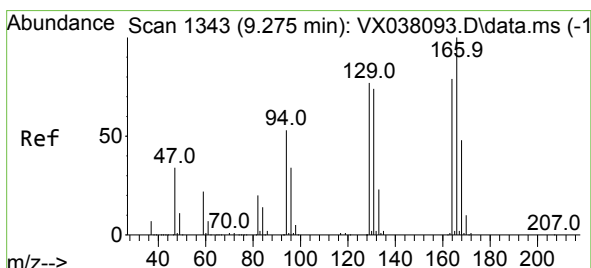
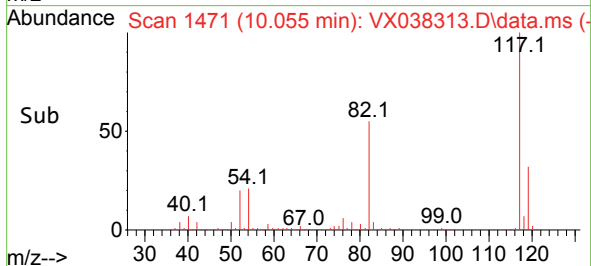
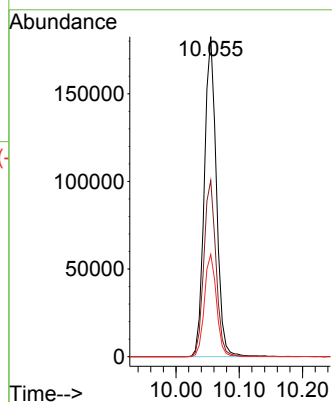
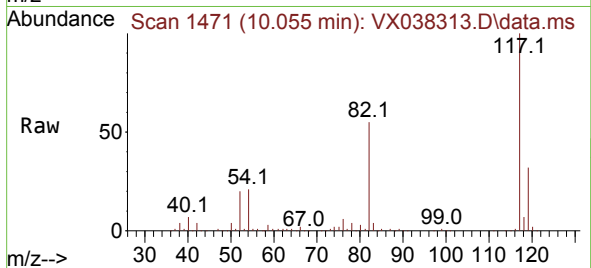
Tgt Ion:117 Resp: 243013

Ion Ratio Lower Upper

117 100

82 55.1 46.2 69.4

119 31.9 25.5 38.3



#64

Tetrachloroethene

Concen: 2.593 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX038313.D

Acq: 16 Oct 2023 18:50

Tgt Ion:164 Resp: 4079

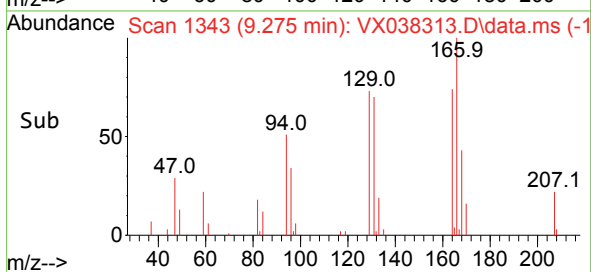
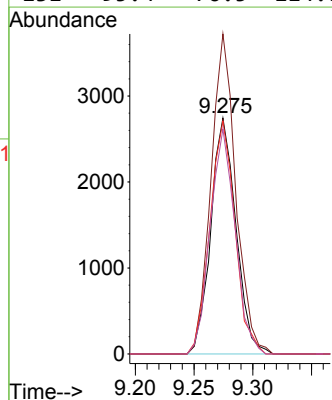
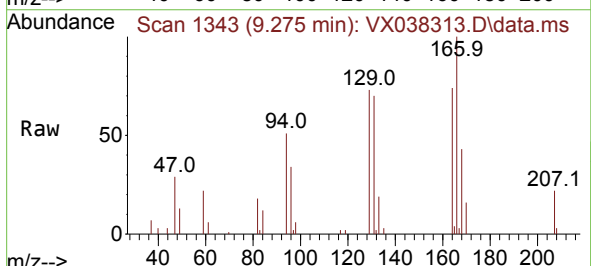
Ion Ratio Lower Upper

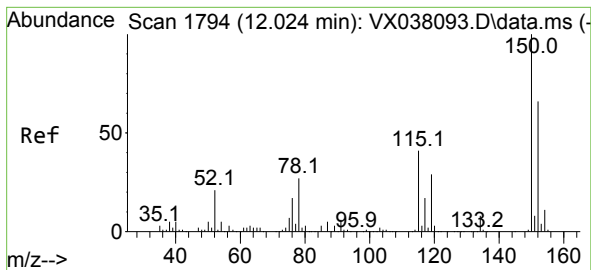
164 100

166 135.6 102.7 154.1

129 98.8 80.4 120.6

131 95.4 76.5 114.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038313.D

Acq: 16 Oct 2023 18:50

Instrument :

MSVOA\_X

ClientSampleId :

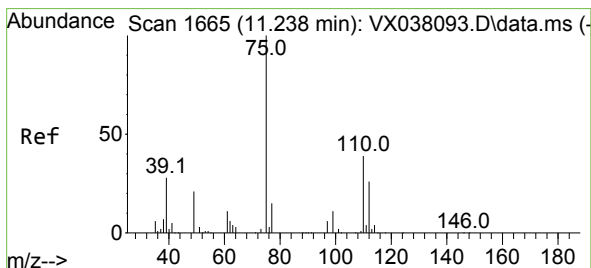
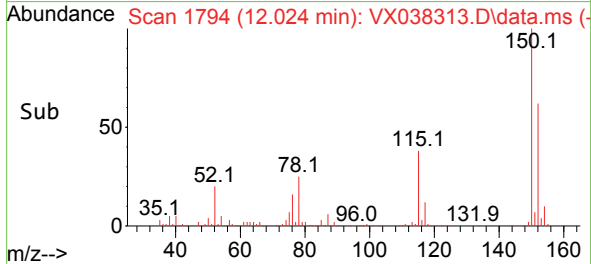
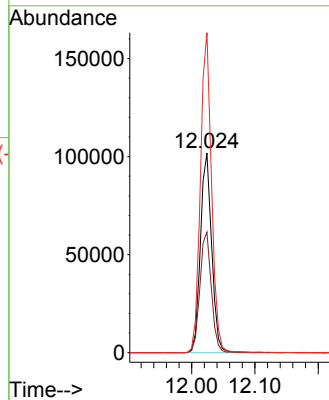
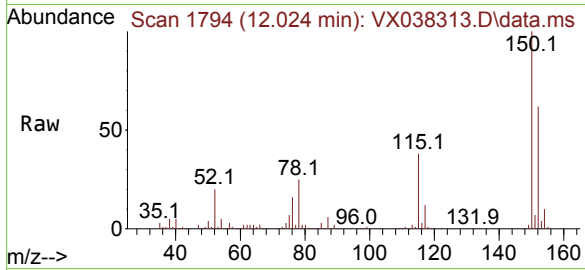
Tgt Ion:152 Resp: 126469

Ion Ratio Lower Upper

152 100

115 61.2 43.3 129.9

150 158.0 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 25.000 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038313.D

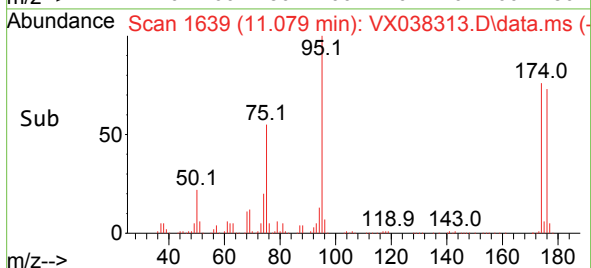
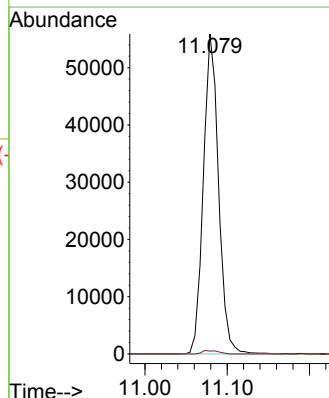
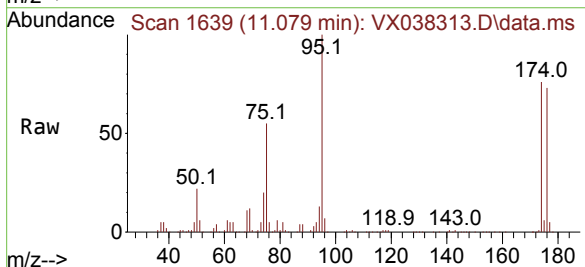
Acq: 16 Oct 2023 18:50

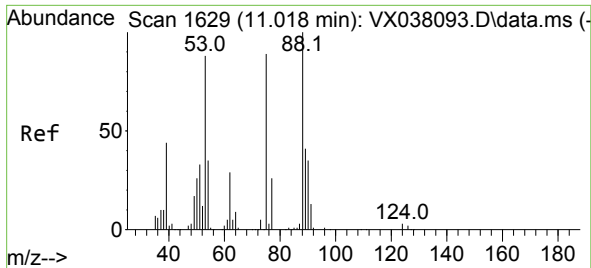
Tgt Ion: 75 Resp: 71877

Ion Ratio Lower Upper

75 100

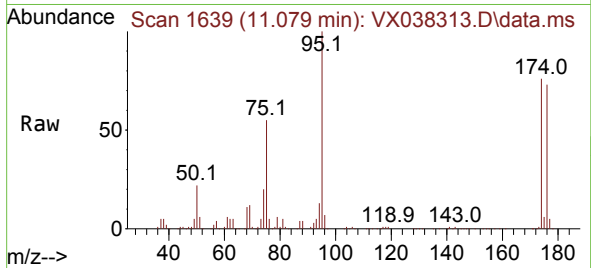
77 1.2 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.142 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038313.D  
 Acq: 16 Oct 2023 18:50

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 71877  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

