

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102023\  
 Data File : VX038412.D  
 Acq On : 20 Oct 2023 18:58  
 Operator : JC/MD  
 Sample : 04987-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANAG

Quant Time: Oct 21 01:49:44 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

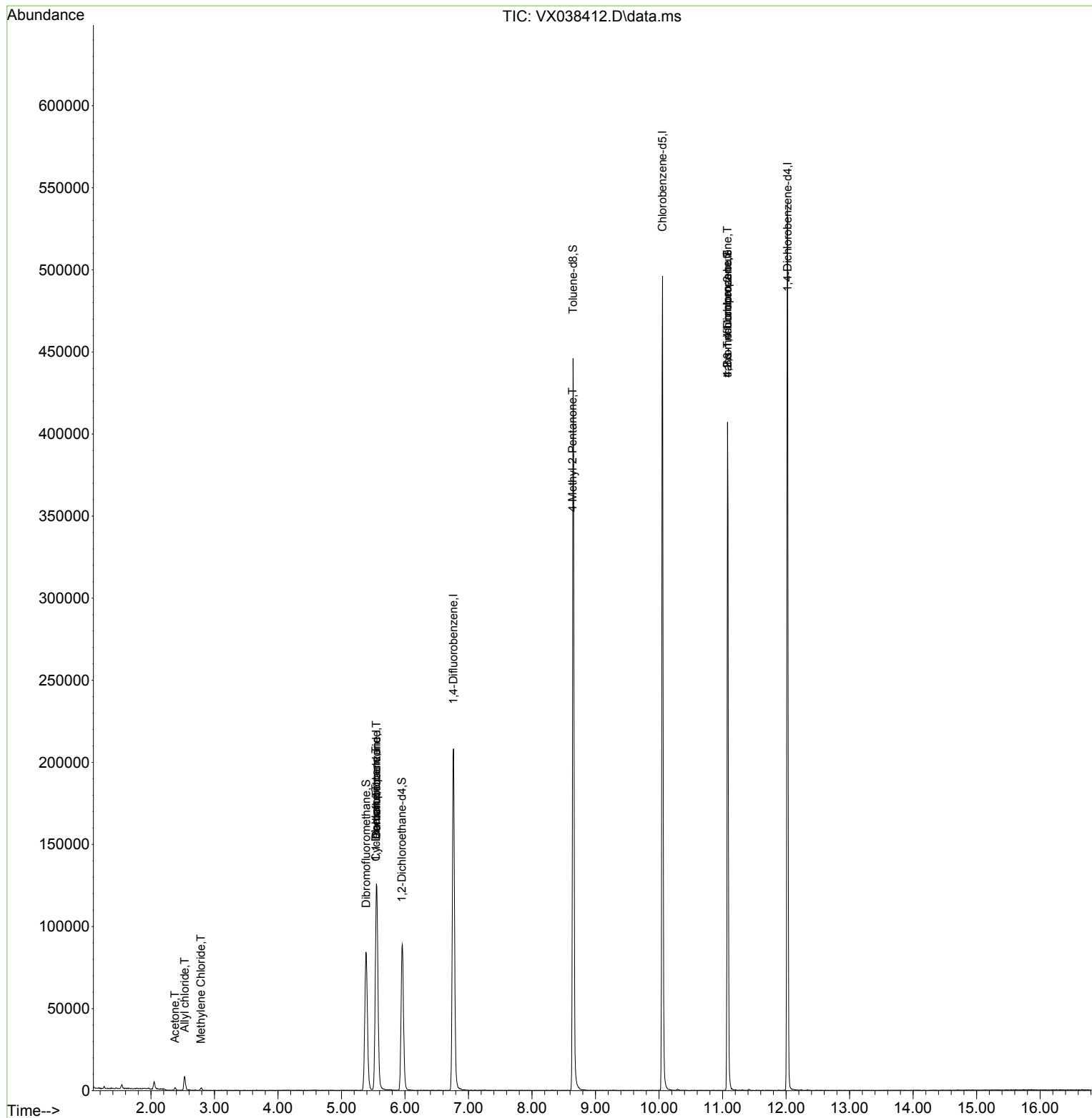
| Compound                      | R.T.   | QIon           | Response | Conc      | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|----------|----------|
| -----                         |        |                |          |           |          |          |
| Internal Standards            |        |                |          |           |          |          |
| 1) Pentafluorobenzene         | 5.550  | 168            | 122727   | 50.000    | ug/l     | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114            | 219049   | 50.000    | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117            | 219492   | 50.000    | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 113751   | 50.000    | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |           |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65             | 87150    | 44.149    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | =         | 88.300%  |          |
| 35) Dibromofluoromethane      | 5.385  | 113            | 71603    | 45.365    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | =         | 90.720%  |          |
| 50) Toluene-d8                | 8.647  | 98             | 269842   | 44.739    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | =         | 89.480%# |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 102547   | 44.848    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | =         | 89.700%  |          |
| Target Compounds              |        |                |          |           |          |          |
|                               |        |                |          |           |          | Qvalue   |
| 5) Bromomethane               | 1.642  | 94             | 26       | Below Cal | #        | 3        |
| 6) Chloroethane               | 1.679  | 64             | 76       | Below Cal | #        | 43       |
| 14) Allyl chloride            | 2.532  | 41             | 809      | 0.403     | ug/l #   | 48       |
| 16) Acetone                   | 2.380  | 43             | 1644     | 1.996     | ug/l     | 96       |
| 20) Methylene Chloride        | 2.788  | 84             | 744      | 0.480     | ug/l #   | 78       |
| 31) Cyclohexane               | 5.544  | 56             | 2934     | 1.372     | ug/l #   | 30       |
| 36) 1,1-Dichloropropene       | 5.544  | 75             | 10169    | 4.672     | ug/l #   | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117            | 12723    | 5.942     | ug/l #   | 15       |
| 51) 4-Methyl-2-Pentanone      | 8.641  | 43             | 1120     | 0.421     | ug/l #   | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 56411    | 21.814    | ug/l #   | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 56411    | 62.591    | ug/l #   | 5        |
| -----                         |        |                |          |           |          |          |

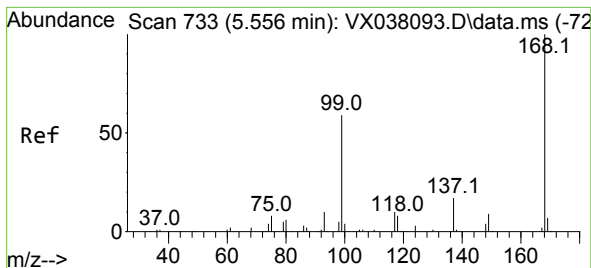
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX038412.D

Acq: 20 Oct 2023 18:58

Instrument :

MSVOA\_X

ClientSampleId :

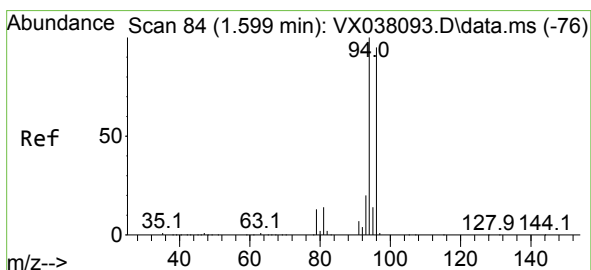
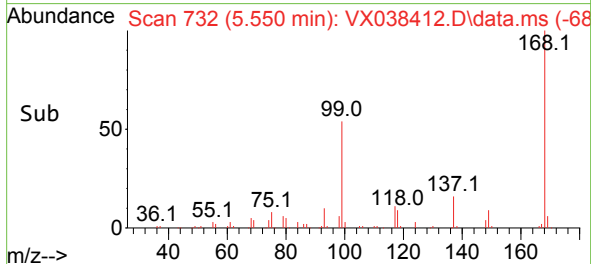
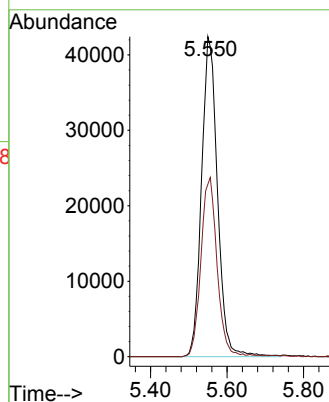
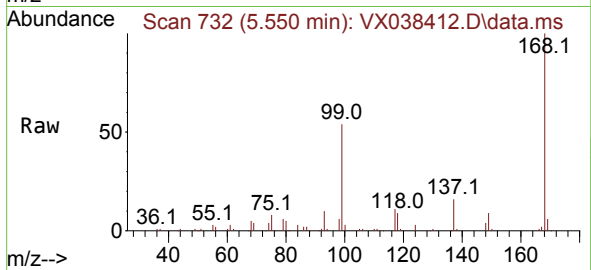
STORAGE-BLANK-SAMPLE-MANAG

Tgt Ion:168 Resp: 122727

Ion Ratio Lower Upper

168 100

99 53.9 56.6 85.0#



#5

Bromomethane

Concen: Below Cal

RT: 1.642 min Scan# 91

Delta R.T. 0.043 min

Lab File: VX038412.D

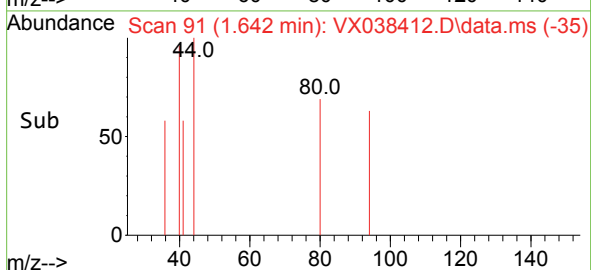
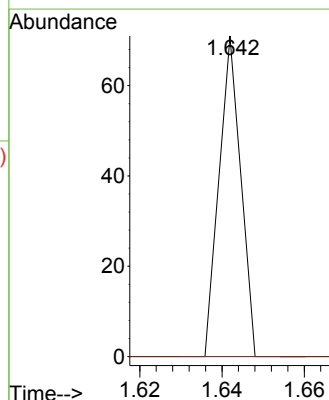
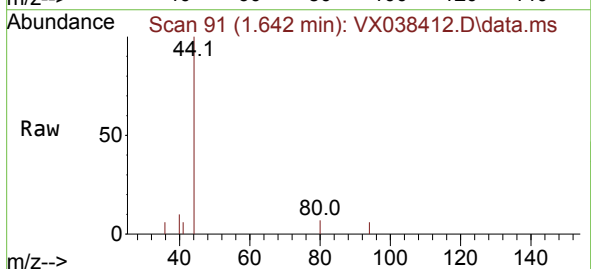
Acq: 20 Oct 2023 18:58

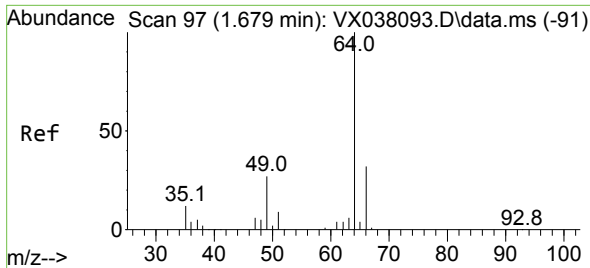
Tgt Ion: 94 Resp: 26

Ion Ratio Lower Upper

94 100

96 0.0 74.6 111.8#

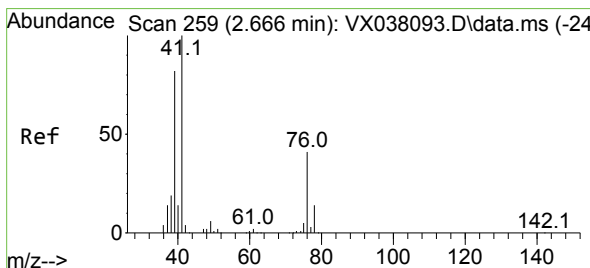
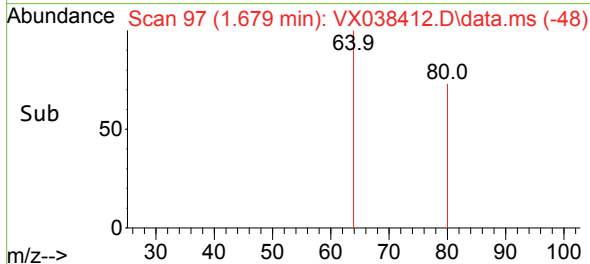
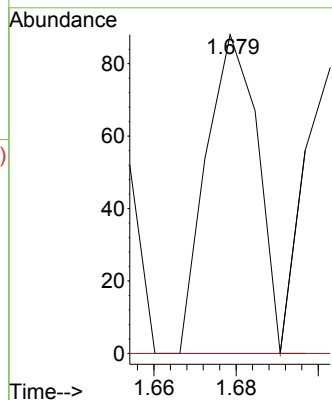
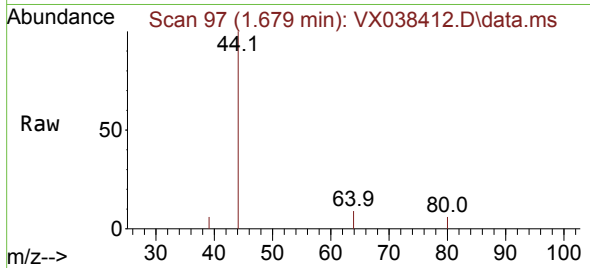




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.679 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

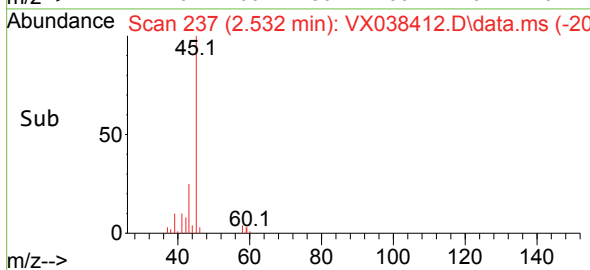
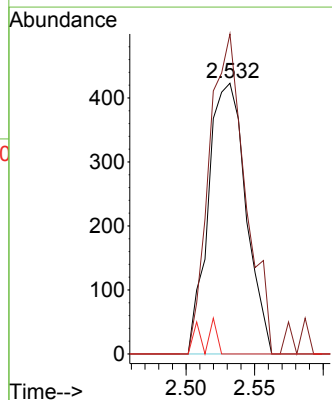
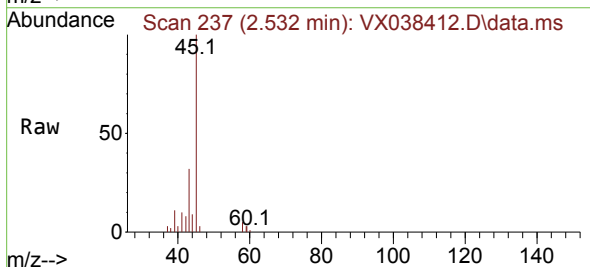
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANAG

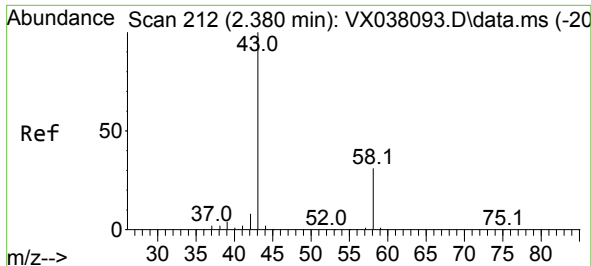
Tgt Ion: 64 Resp: 76  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#14  
Allyl chloride  
Concen: 0.403 ug/l  
RT: 2.532 min Scan# 237  
Delta R.T. -0.128 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

Tgt Ion: 41 Resp: 809  
Ion Ratio Lower Upper  
41 100  
39 113.6 55.8 83.6#  
76 4.8 24.3 36.5#





#16

Acetone

Concen: 1.996 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX038412.D

Acq: 20 Oct 2023 18:58

Instrument :

MSVOA\_X

ClientSampleId :

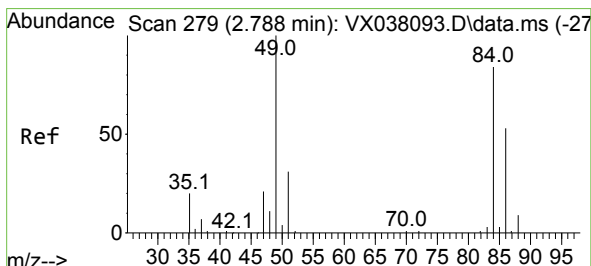
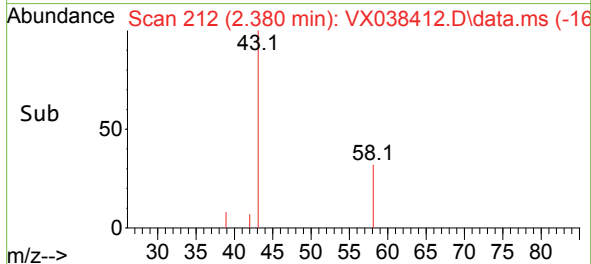
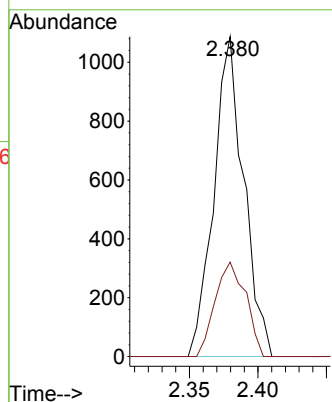
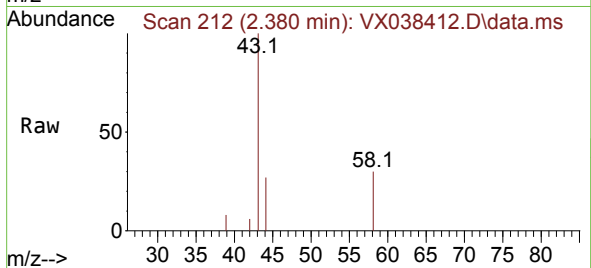
STORAGE-BLANK-SAMPLE-MANAG

Tgt Ion: 43 Resp: 1644

Ion Ratio Lower Upper

43 100

58 29.5 21.9 32.9



#20

Methylene Chloride

Concen: 0.480 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX038412.D

Acq: 20 Oct 2023 18:58

Tgt Ion: 84 Resp: 744

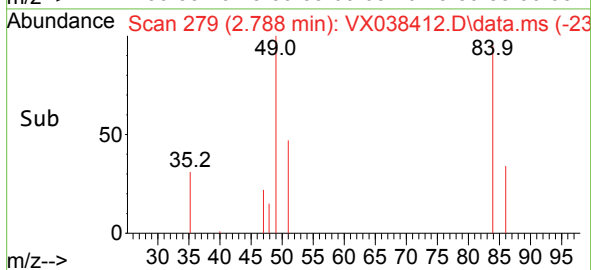
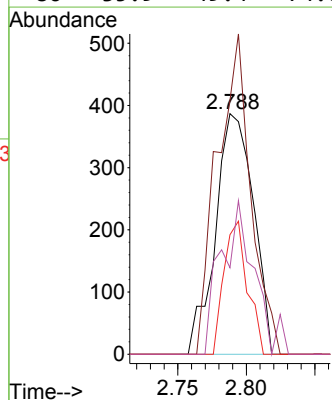
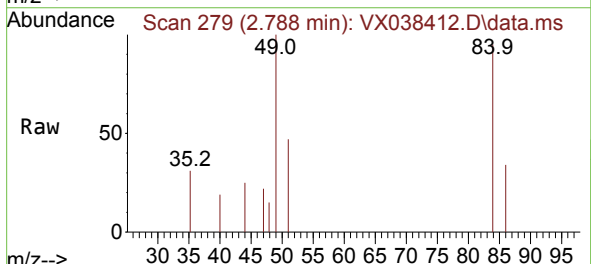
Ion Ratio Lower Upper

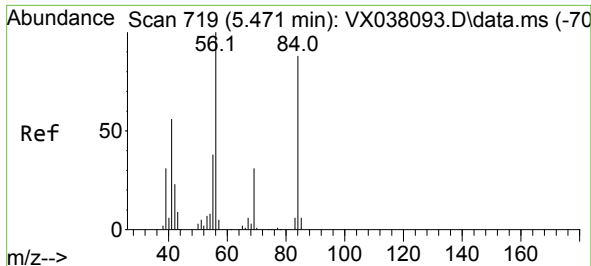
84 100

49 105.4 103.6 155.4

51 49.6 33.8 50.6

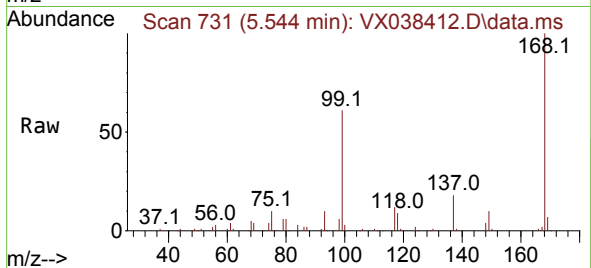
86 35.9 49.4 74.0#



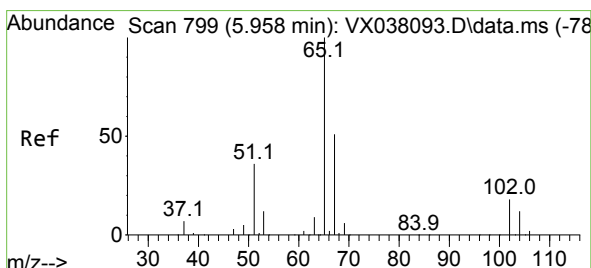
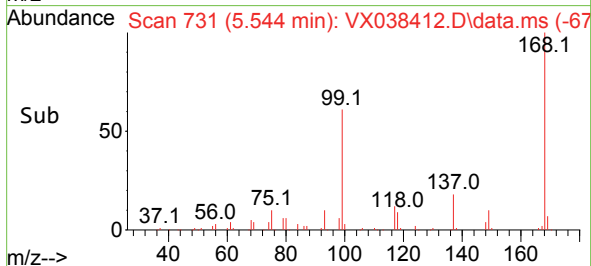
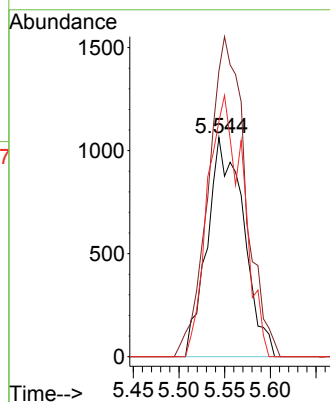


#31  
Cyclohexane  
Concen: 1.372 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANAG

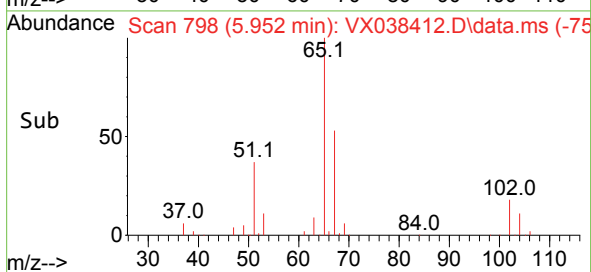
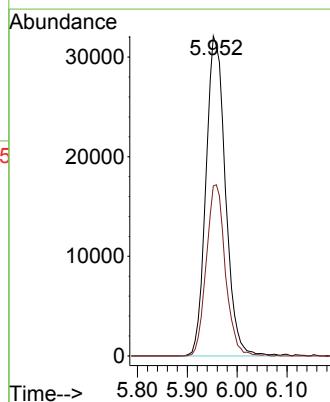
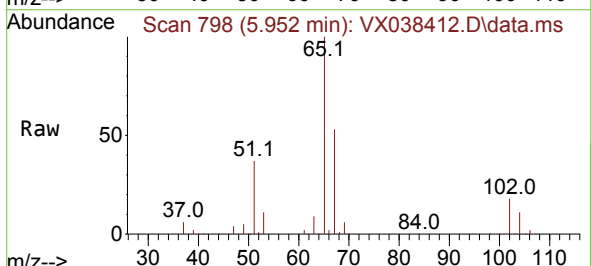


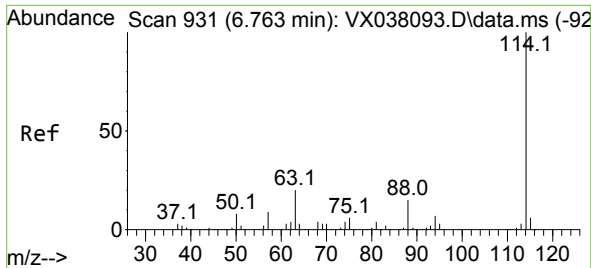
Tgt Ion: 56 Resp: 2934  
Ion Ratio Lower Upper  
56 100  
69 130.3 23.4 35.2#  
84 107.2 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 44.149 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

Tgt Ion: 65 Resp: 87150  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 100.2

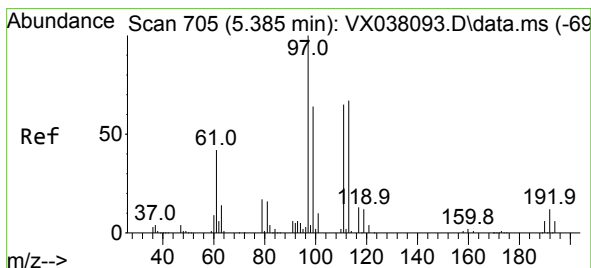
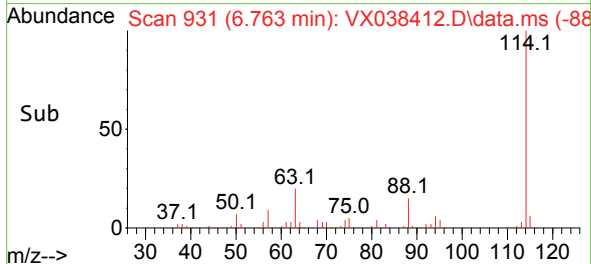
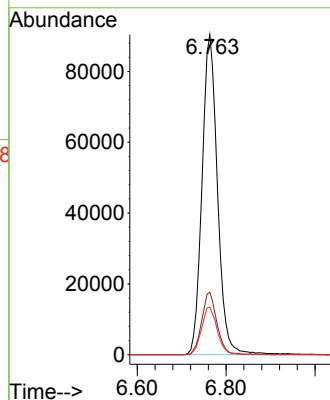
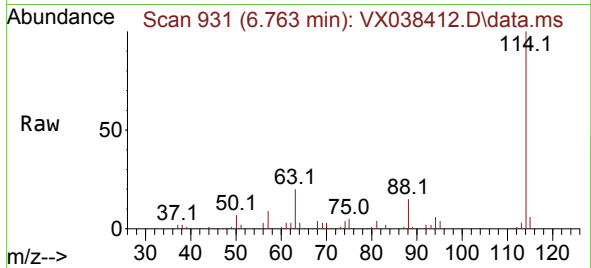




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

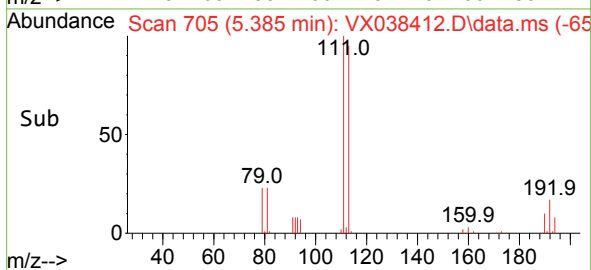
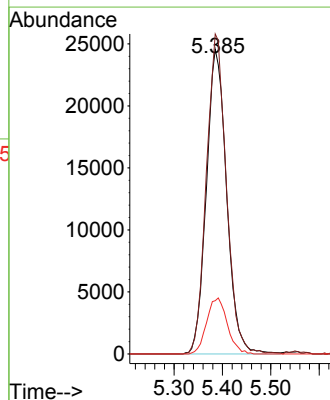
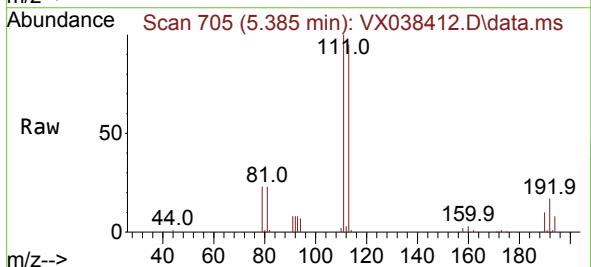
Instrument :  
MSVOA\_X  
ClientSampleId :  
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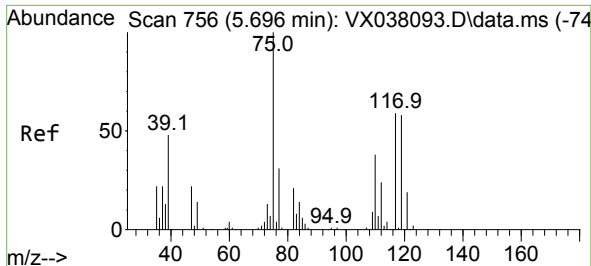
Tgt Ion:114 Resp: 219049  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 45.0  
88 14.9 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 45.365 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

Tgt Ion:113 Resp: 71603  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.9 124.3  
192 18.7 13.3 19.9

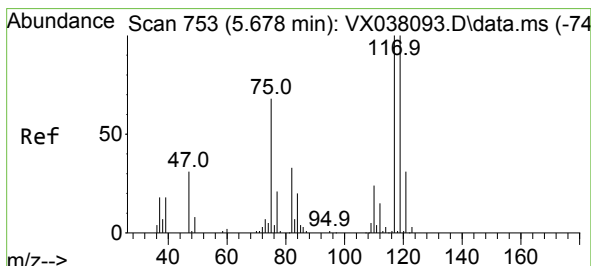
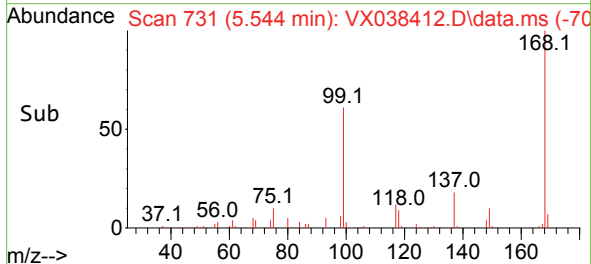
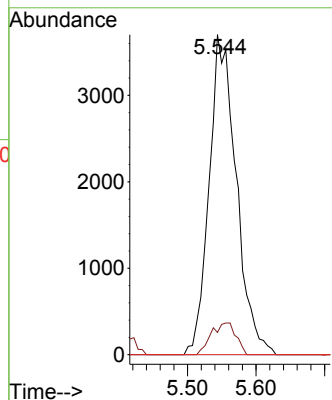
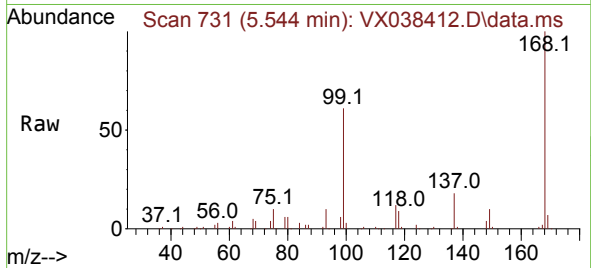




#36  
1,1-Dichloropropene  
Concen: 4.672 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

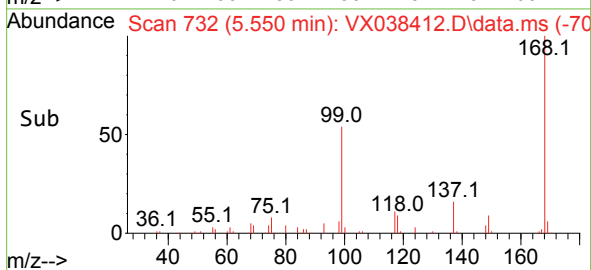
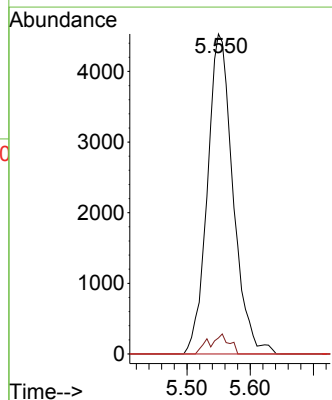
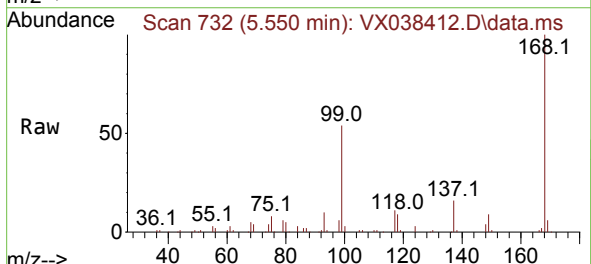
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Tgt Ion: 75 Resp: 10169  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.0 50.9#  
77 0.0 24.7 37.1#

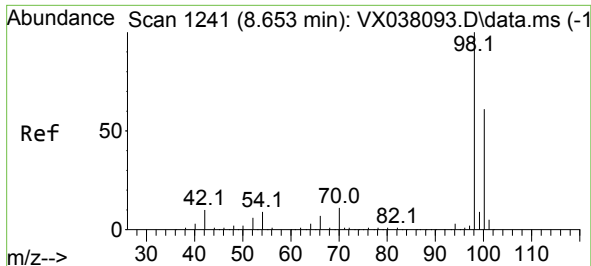


#38  
Carbon Tetrachloride  
Concen: 5.942 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

Tgt Ion: 117 Resp: 12723  
Ion Ratio Lower Upper  
117 100  
119 5.0 78.2 117.2#  
121 0.0 24.4 36.6#



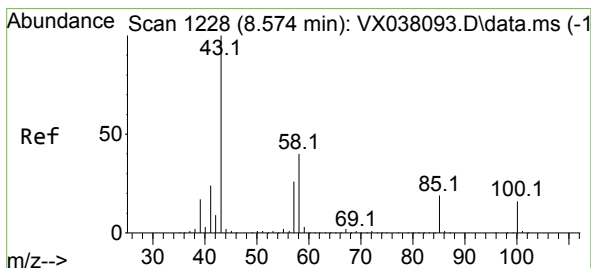
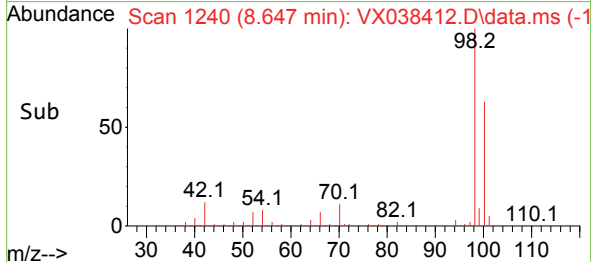
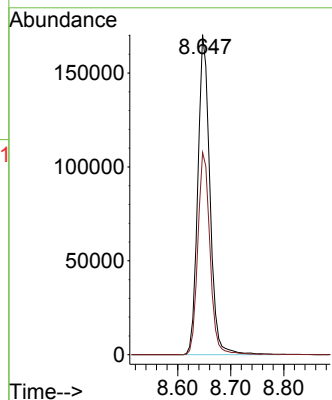
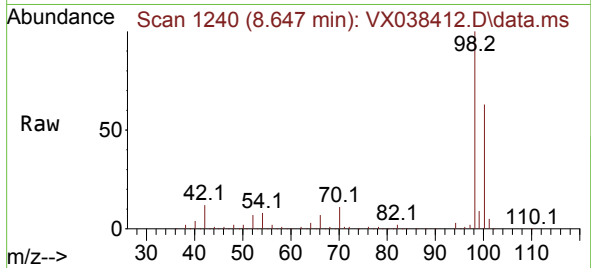




#50  
Toluene-d8  
Concen: 44.739 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

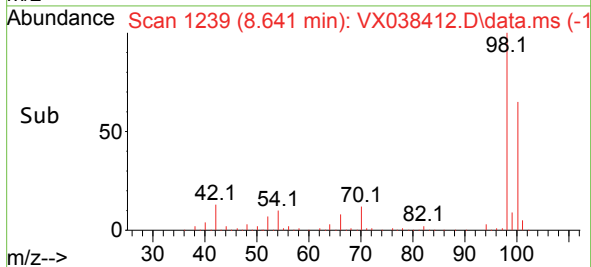
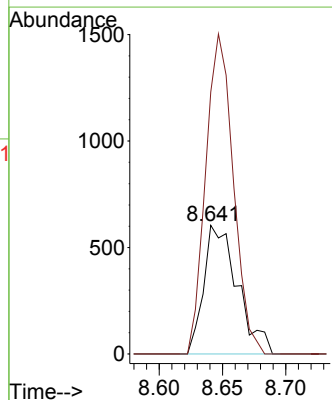
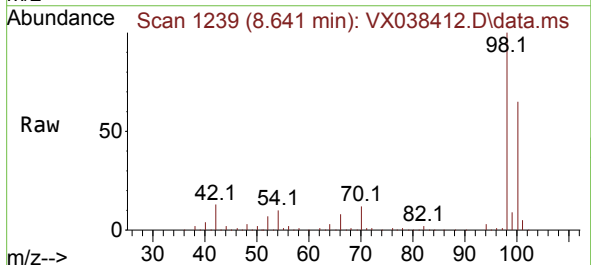
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANAG

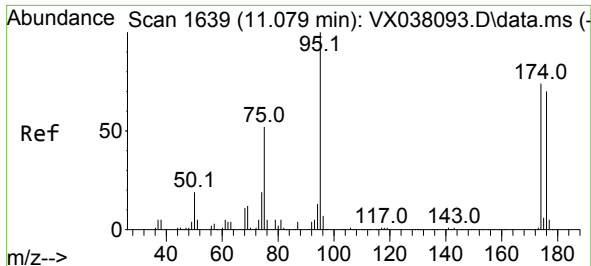
Tgt Ion: 98 Resp: 269842  
Ion Ratio Lower Upper  
98 100  
100 63.7 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.421 ug/l  
RT: 8.641 min Scan# 1239  
Delta R.T. 0.067 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

Tgt Ion: 43 Resp: 1120  
Ion Ratio Lower Upper  
43 100  
58 204.3 30.4 45.6#

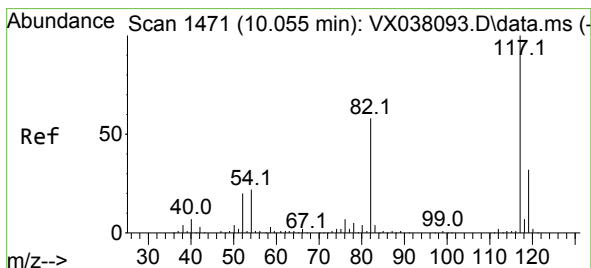
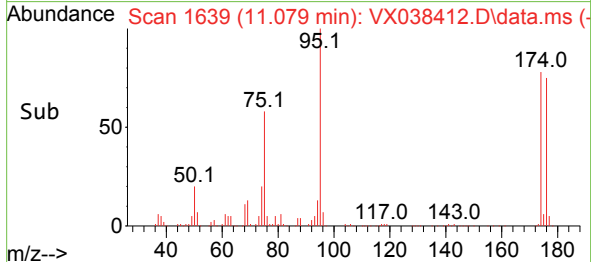
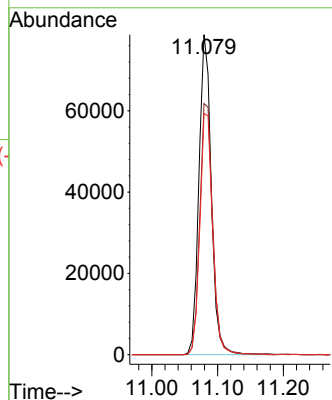
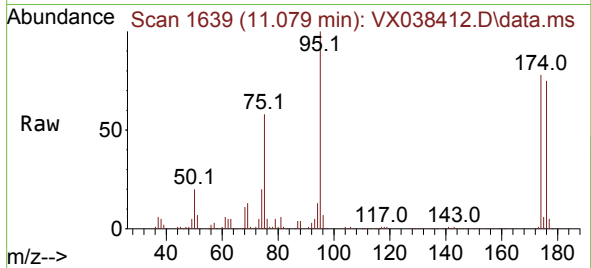




#62  
4-Bromofluorobenzene  
Concen: 44.848 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

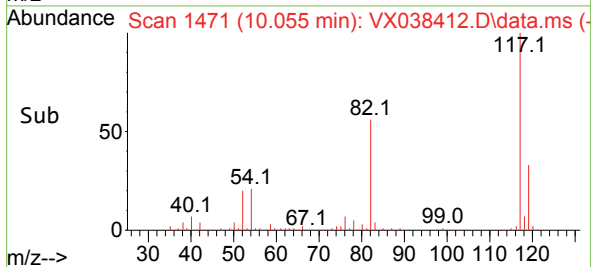
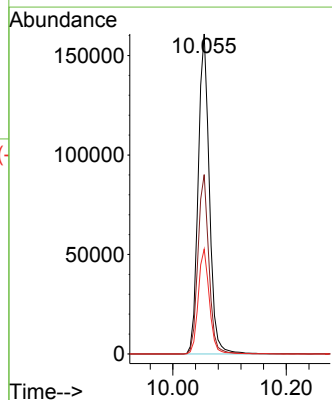
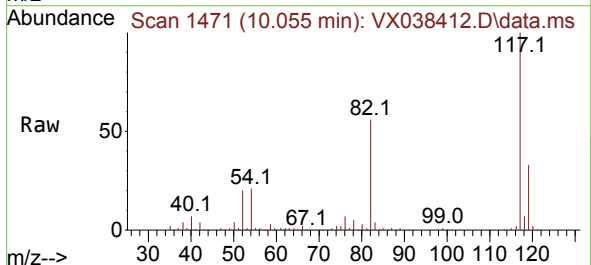
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANAG

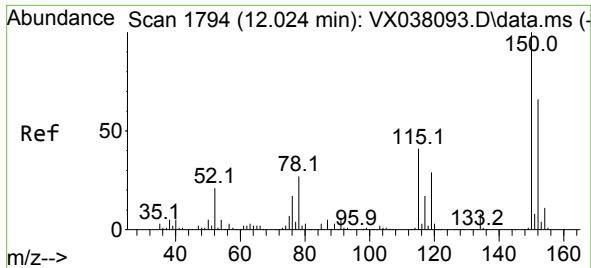
Tgt Ion: 95 Resp: 102547  
Ion Ratio Lower Upper  
95 100  
174 82.6 0.0 135.6  
176 78.6 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038412.D  
Acq: 20 Oct 2023 18:58

Tgt Ion: 117 Resp: 219492  
Ion Ratio Lower Upper  
117 100  
82 56.0 46.2 69.4  
119 32.7 25.5 38.3

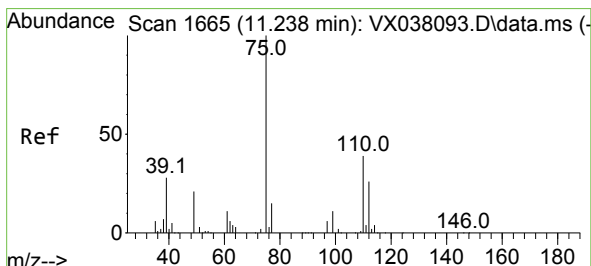
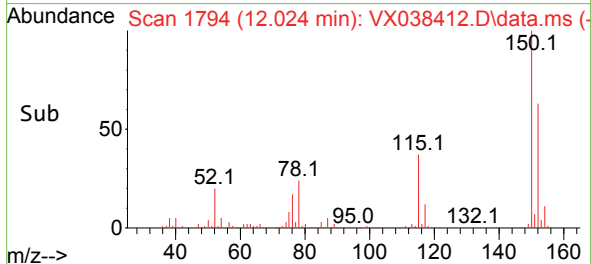
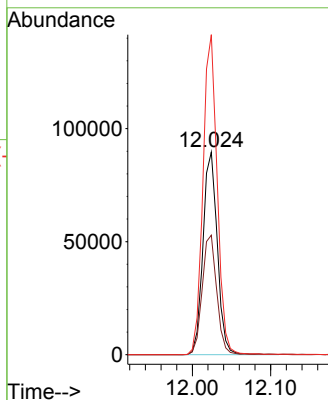
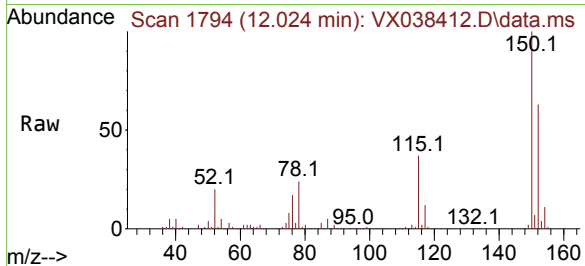




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX038412.D  
 Acq: 20 Oct 2023 18:58

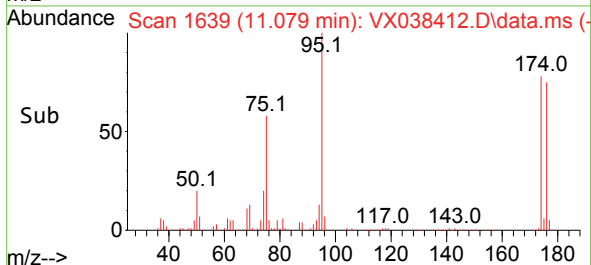
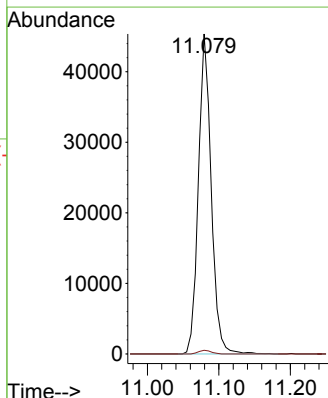
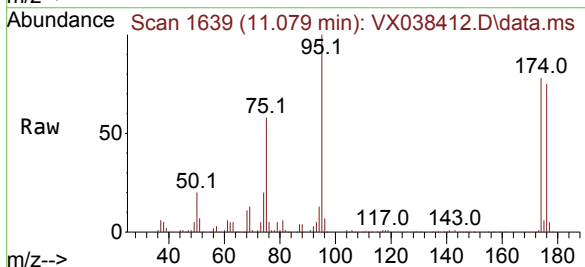
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANAG

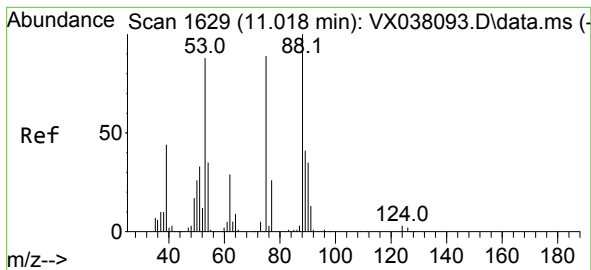
Tgt Ion:152 Resp: 113751  
 Ion Ratio Lower Upper  
 152 100  
 115 60.0 43.3 129.9  
 150 156.9 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 21.814 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX038412.D  
 Acq: 20 Oct 2023 18:58

Tgt Ion: 75 Resp: 56411  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 62.591 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038412.D  
 Acq: 20 Oct 2023 18:58

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANAG

Tgt Ion: 75 Resp: 56411  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

