

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101623\  
 Data File : VX038310.D  
 Acq On : 16 Oct 2023 17:41  
 Operator : JC/MD  
 Sample : 04899-09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 17 01:26:00 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      | 5.556  | 168  | 146049   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 256666   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 258811   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 132839   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 5.958  | 65    | 109438   | 46.587   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 93.180%  |
| 35) Dibromofluoromethane    | 5.385  | 113   | 86897    | 46.986   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 93.980%  |
| 50) Toluene-d8              | 8.647  | 98    | 320252   | 45.315   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 90.640%# |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 121934   | 45.511   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 91.020%  |

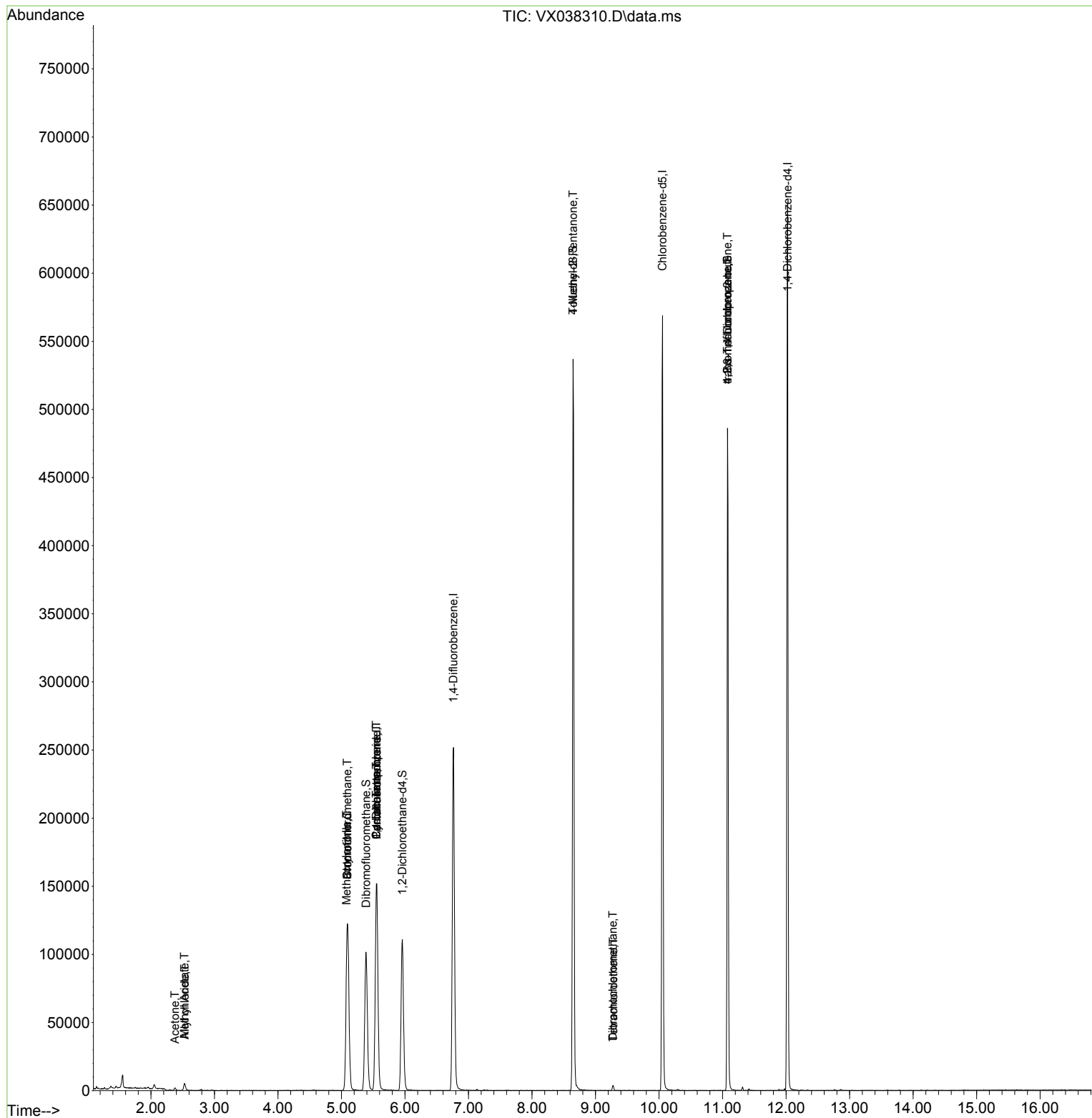
| Target Compounds              |        |     |        |           | Qvalue    |
|-------------------------------|--------|-----|--------|-----------|-----------|
| 5) Bromomethane               | 1.605  | 94  | 69     | Below Cal | # 3       |
| 6) Chloroethane               | 1.666  | 64  | 56     | Below Cal | # 43      |
| 11) Tert butyl alcohol        | 2.947  | 59  | 76     | Below Cal | # 78      |
| 14) Allyl chloride            | 2.532  | 41  | 631    | 0.264     | ug/l # 41 |
| 16) Acetone                   | 2.380  | 43  | 1914   | 1.952     | ug/l # 99 |
| 18) Methyl Acetate            | 2.526  | 43  | 1678   | 0.399     | ug/l # 53 |
| 28) Bromochloromethane        | 5.092  | 49  | 12230  | 8.912     | ug/l # 16 |
| 30) Chloroform                | 5.092  | 83  | 149767 | 45.052    | ug/l 100  |
| 31) Cyclohexane               | 5.550  | 56  | 3344   | 1.314     | ug/l # 41 |
| 36) 1,1-Dichloropropene       | 5.550  | 75  | 11914  | 4.672     | ug/l # 51 |
| 38) Carbon Tetrachloride      | 5.550  | 117 | 15390  | 6.134     | ug/l # 15 |
| 41) Methacrylonitrile         | 5.080  | 41  | 587    | 0.390     | ug/l # 25 |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43  | 1497   | 0.480     | ug/l # 1  |
| 60) Dibromochloromethane      | 9.275  | 129 | 620    | 0.319     | ug/l # 11 |
| 64) Tetrachloroethene         | 9.281  | 164 | 452    | 0.270     | ug/l # 76 |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 67494  | 22.350    | ug/l # 39 |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 67494  | 64.028    | ug/l # 5  |

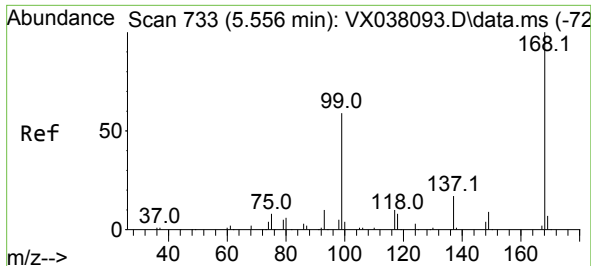
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101623\  
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Sample : 04899-09  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

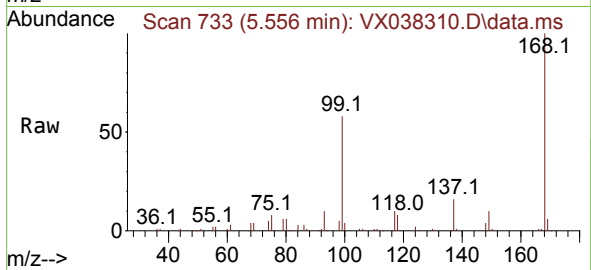
Quant Time: Oct 17 01:26:00 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration



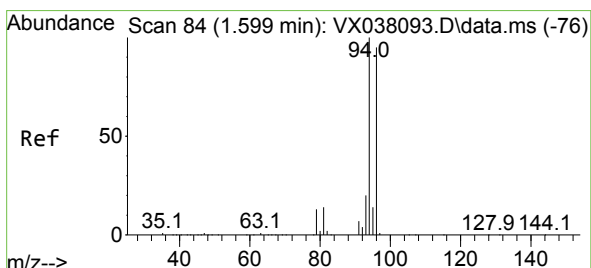
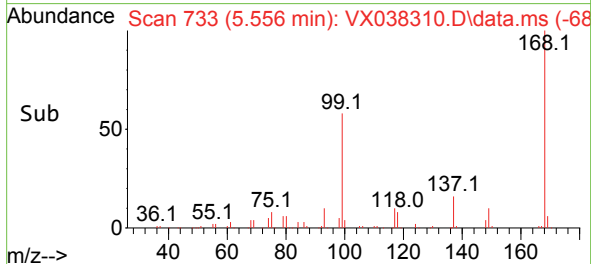
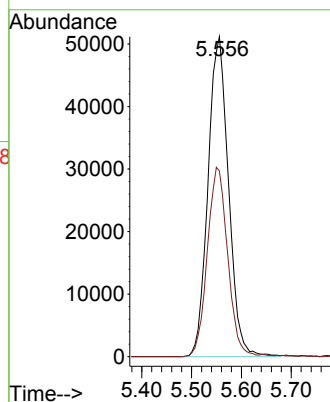


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

Instrument :  
MSVOA\_X  
ClientSampleId :

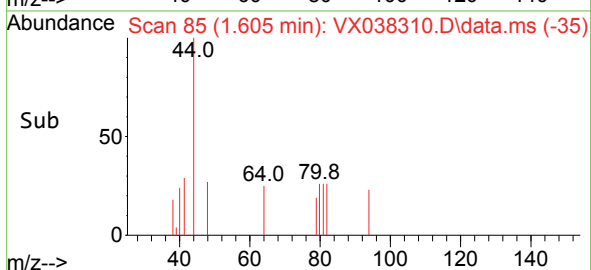
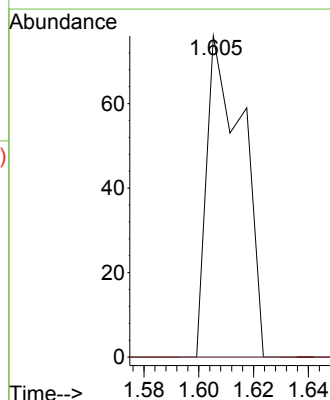
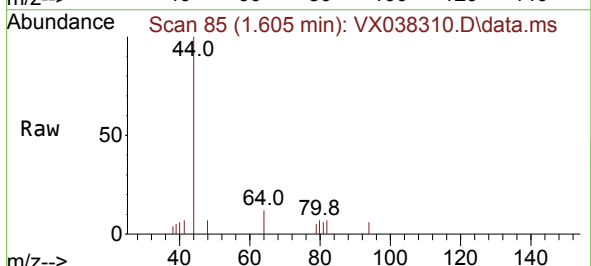


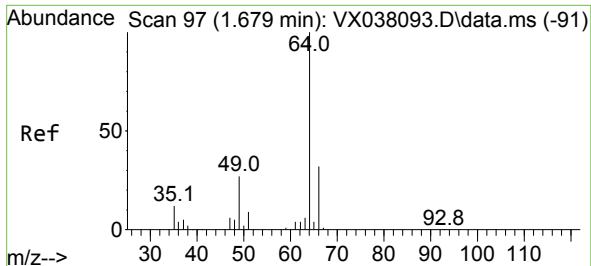
Tgt Ion:168 Resp: 146049  
Ion Ratio Lower Upper  
168 100  
99 58.1 56.6 85.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

Tgt Ion: 94 Resp: 69  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#

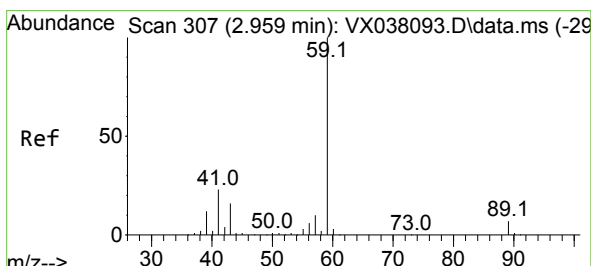
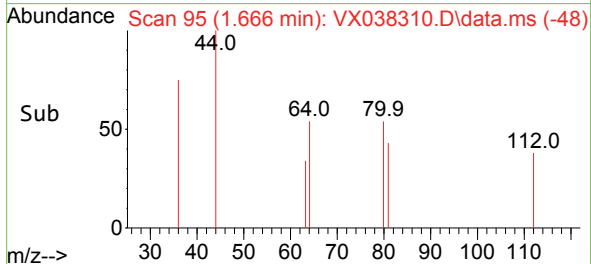
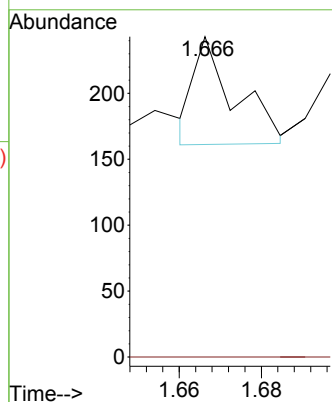
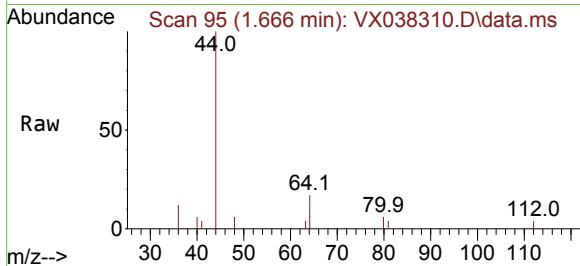




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.666 min Scan# 91  
Delta R.T. -0.013 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

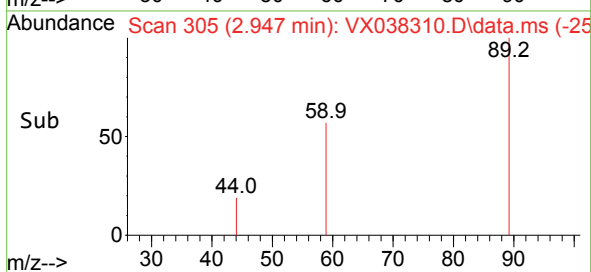
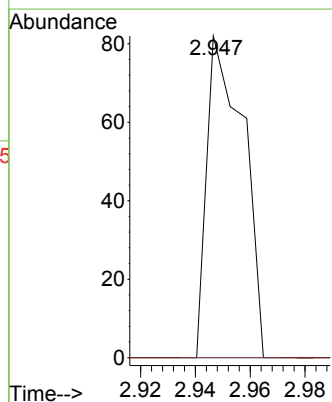
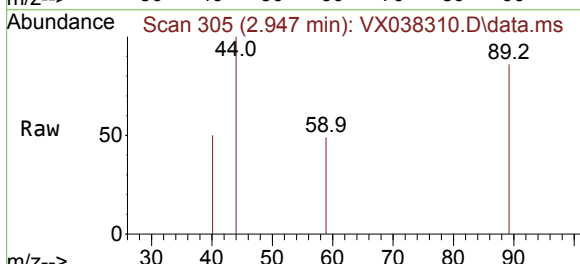
Instrument :  
MSVOA\_X  
ClientSampleId :

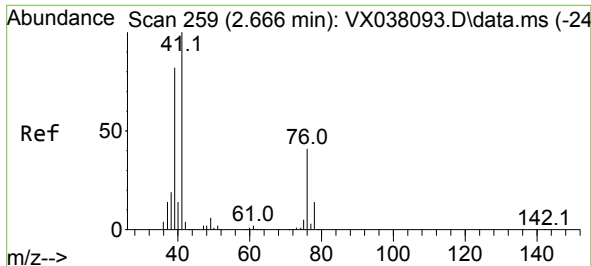
Tgt Ion: 64 Resp: 56  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 305  
Delta R.T. -0.012 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

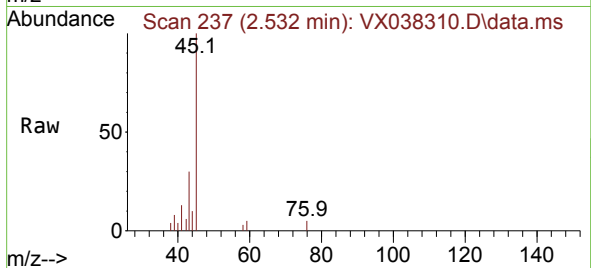
Tgt Ion: 59 Resp: 76  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



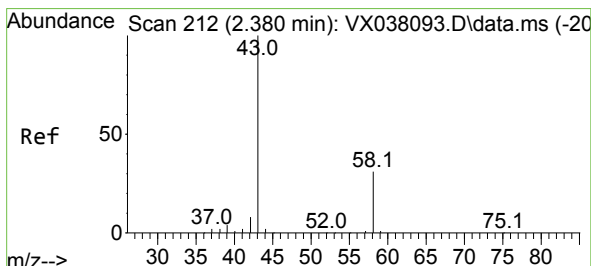
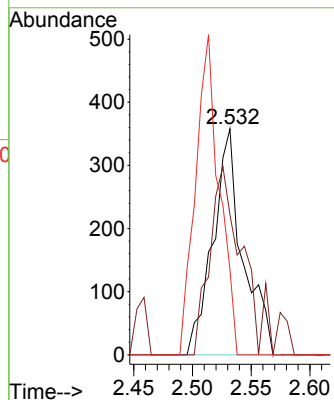
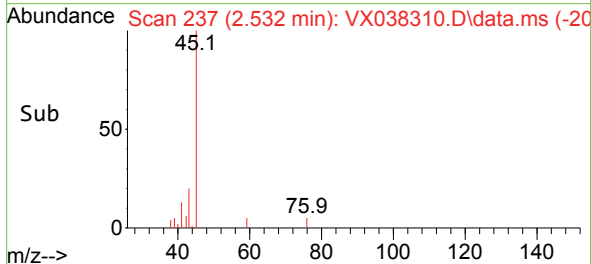


#14  
 Allyl chloride  
 Concen: 0.264 ug/l  
 RT: 2.532 min Scan# 21  
 Delta R.T. -0.128 min  
 Lab File: VX038310.D  
 Acq: 16 Oct 2023 17:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :

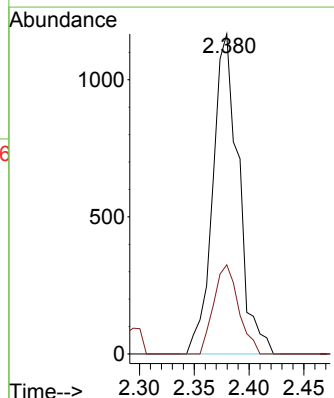
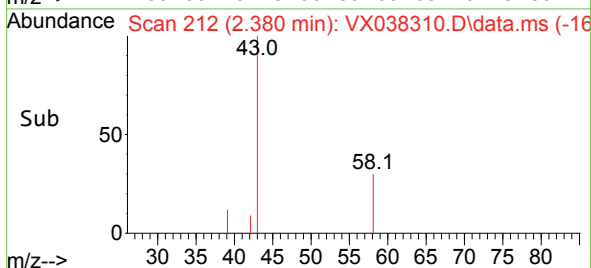
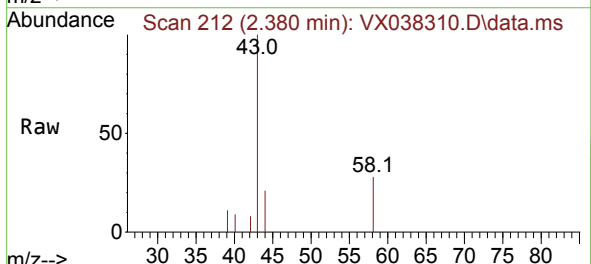


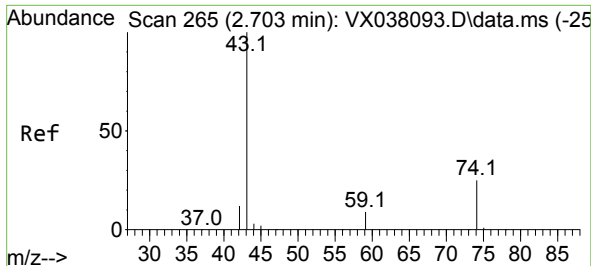
Tgt Ion: 41 Resp: 631  
 Ion Ratio Lower Upper  
 41 100  
 39 84.9 55.8 83.6#  
 76 112.8 24.3 36.5#



#16  
 Acetone  
 Concen: 1.952 ug/l  
 RT: 2.380 min Scan# 212  
 Delta R.T. -0.000 min  
 Lab File: VX038310.D  
 Acq: 16 Oct 2023 17:41

Tgt Ion: 43 Resp: 1914  
 Ion Ratio Lower Upper  
 43 100  
 58 27.8 21.9 32.9

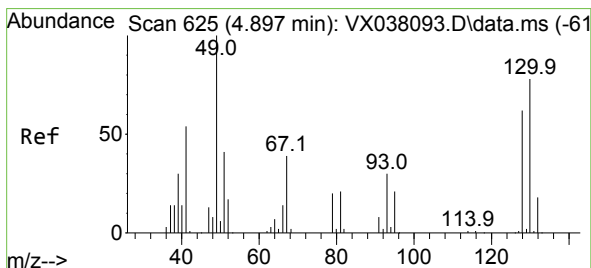
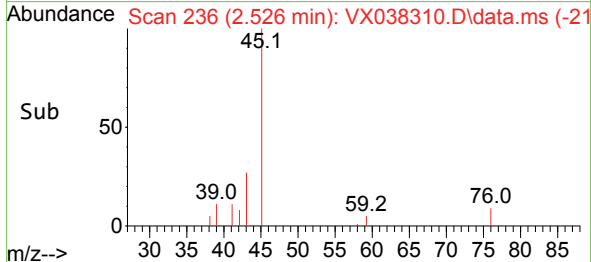
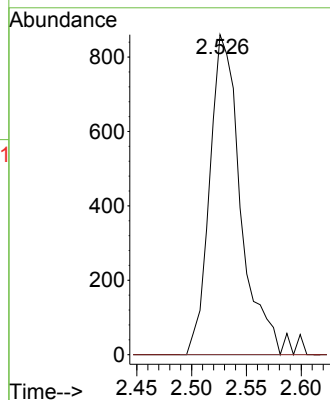
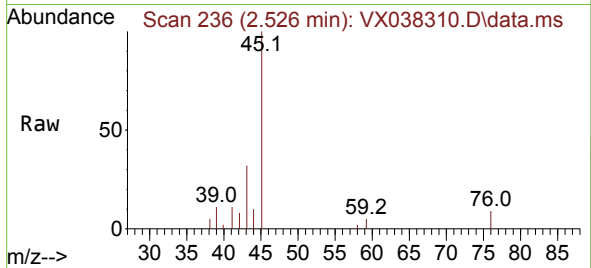




#18  
Methyl Acetate  
Concen: 0.399 ug/l  
RT: 2.526 min Scan# 21  
Delta R.T. -0.177 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

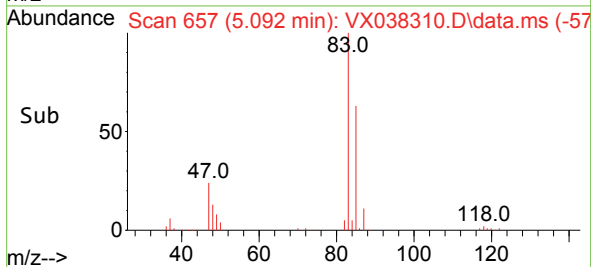
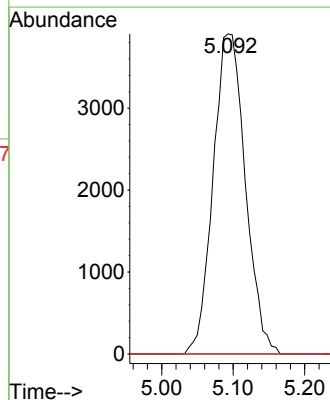
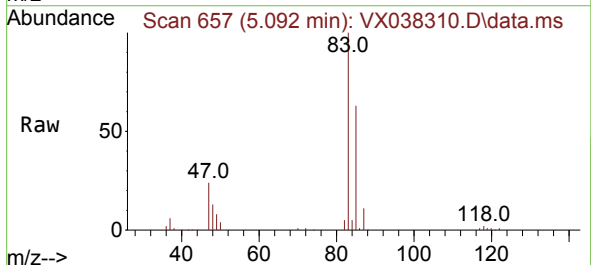
Instrument :  
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ClientSampleId :

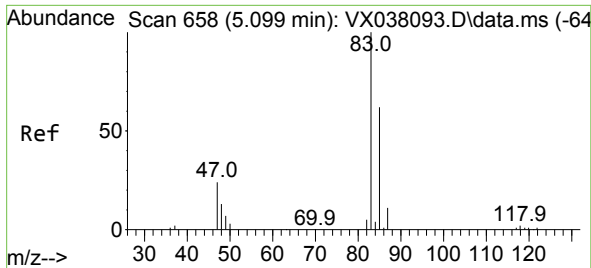
Tgt Ion: 43 Resp: 1678  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.8 26.8#



#28  
Bromochloromethane  
Concen: 8.912 ug/l  
RT: 5.092 min Scan# 657  
Delta R.T. 0.195 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

Tgt Ion: 49 Resp: 12230  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.8  
130 0.0 57.5 86.3#

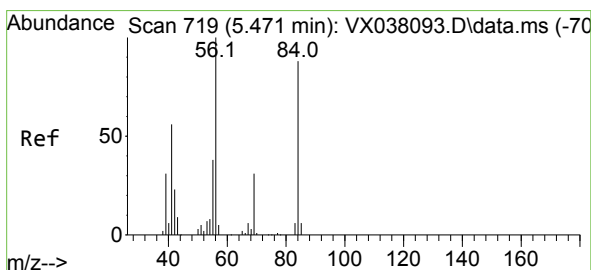
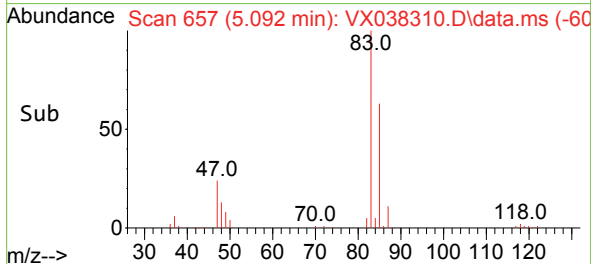
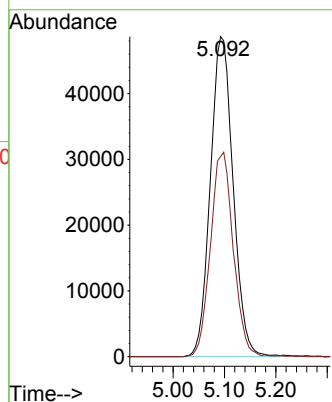
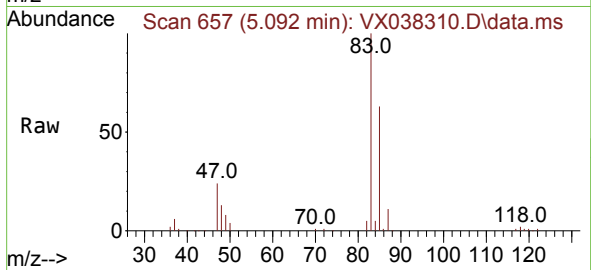




#30  
Chloroform  
Concen: 45.052 ug/l  
RT: 5.092 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

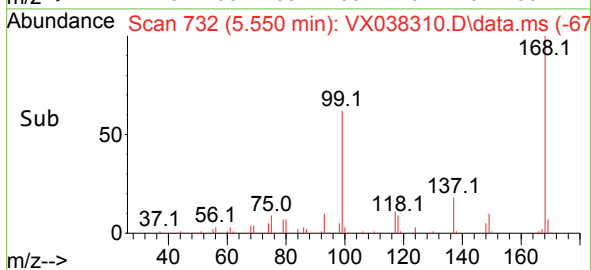
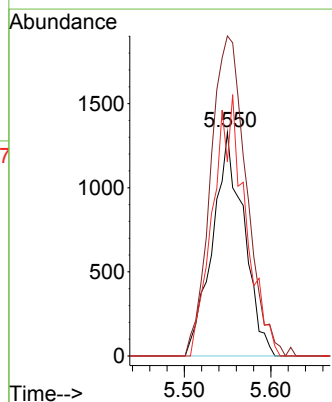
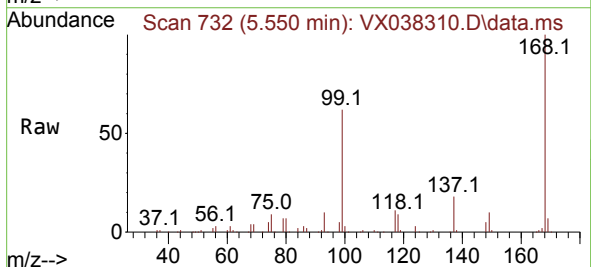
Instrument :  
MSVOA\_X  
ClientSampleId :

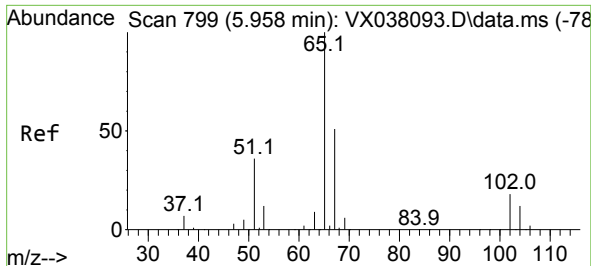
Tgt Ion: 83 Resp: 149767  
Ion Ratio Lower Upper  
83 100  
85 62.6 50.3 75.5



#31  
Cyclohexane  
Concen: 1.314 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.079 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

Tgt Ion: 56 Resp: 3344  
Ion Ratio Lower Upper  
56 100  
69 143.1 23.4 35.2#  
84 86.8 65.9 98.9

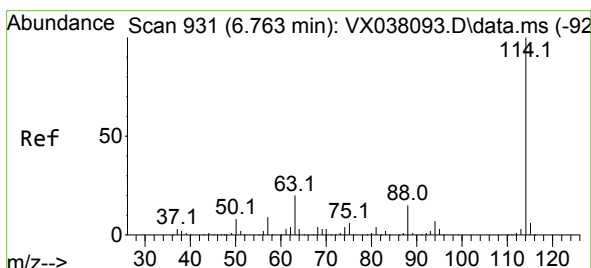
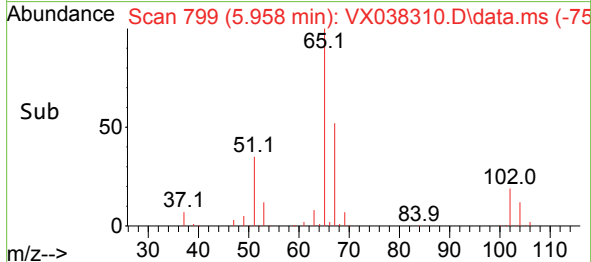
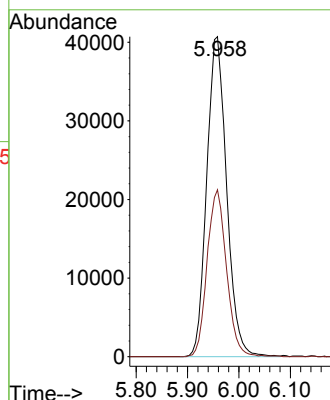
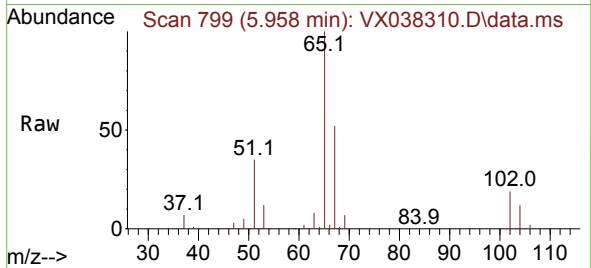




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.587 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX038310.D  
 Acq: 16 Oct 2023 17:41

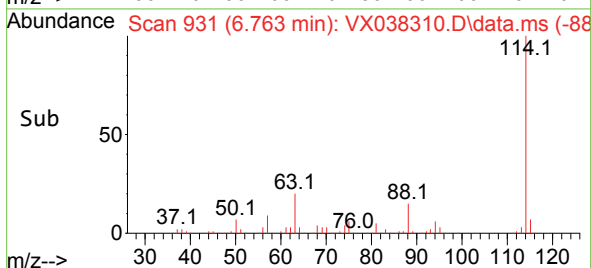
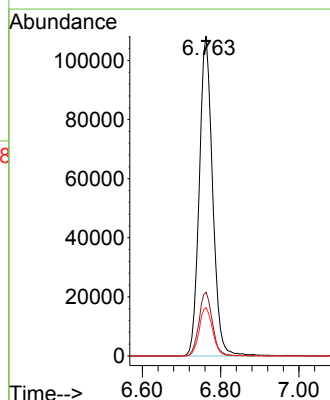
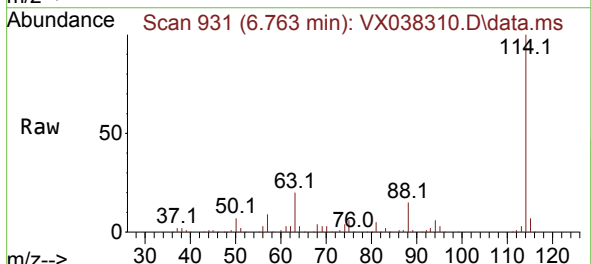
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 65 Resp: 109438  
 Ion Ratio Lower Upper  
 65 100  
 67 51.0 0.0 100.2

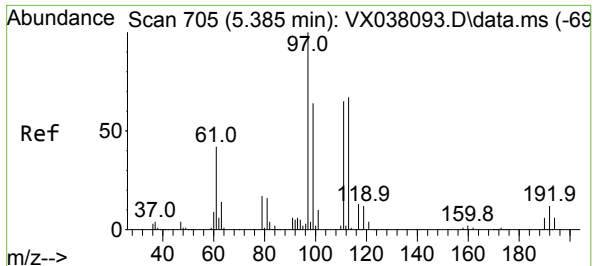


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX038310.D  
 Acq: 16 Oct 2023 17:41

Tgt Ion:114 Resp: 256666  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 45.0  
 88 15.1 0.0 36.6

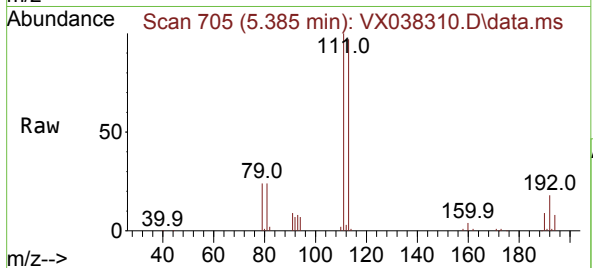




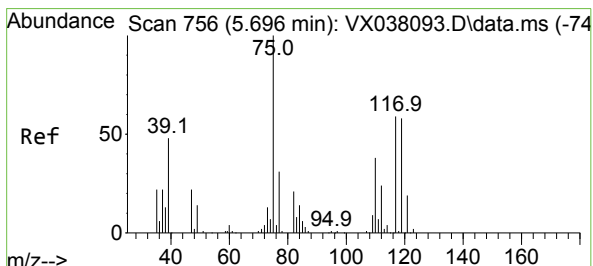
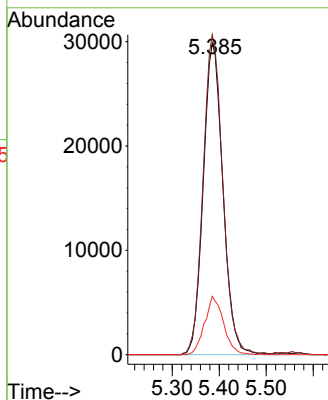
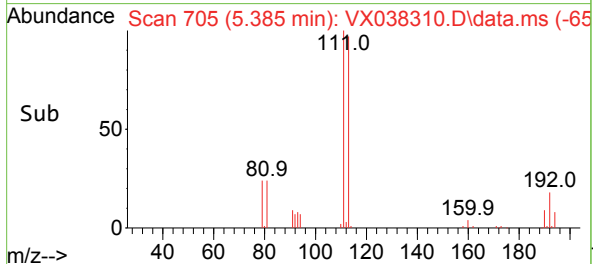


#35  
Dibromofluoromethane  
Concen: 46.986 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

Instrument :  
MSVOA\_X  
ClientSampleId :

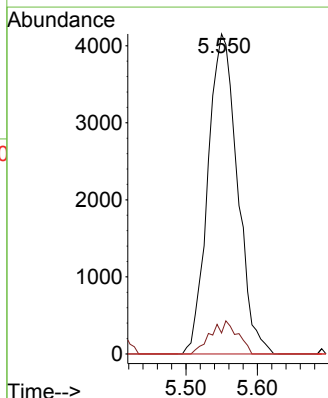
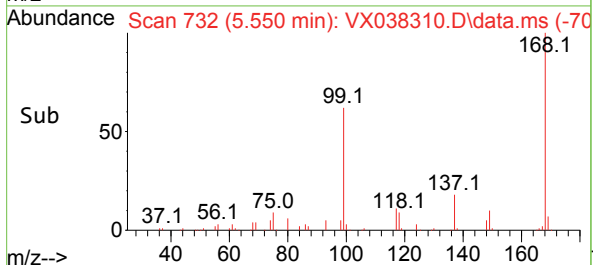
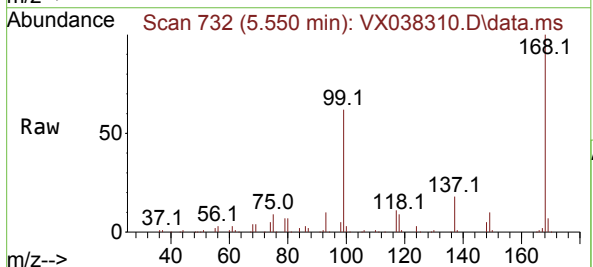


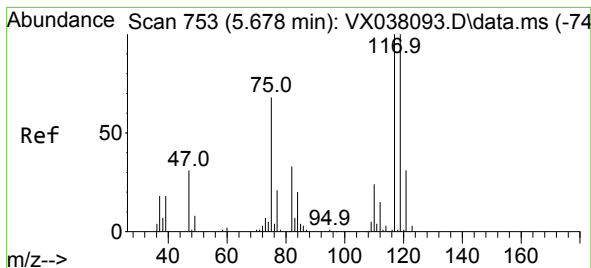
Tgt Ion:113 Resp: 86897  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.9 124.3  
192 18.0 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.672 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

Tgt Ion: 75 Resp: 11914  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.0 50.9#  
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.134 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.128 min

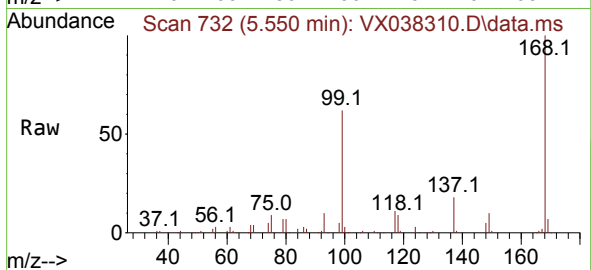
Lab File: VX038310.D

Acq: 16 Oct 2023 17:41

Instrument :

MSVOA\_X

ClientSampleId :



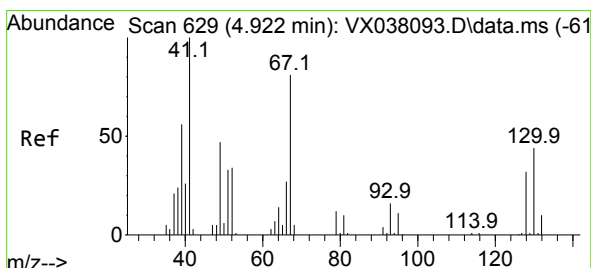
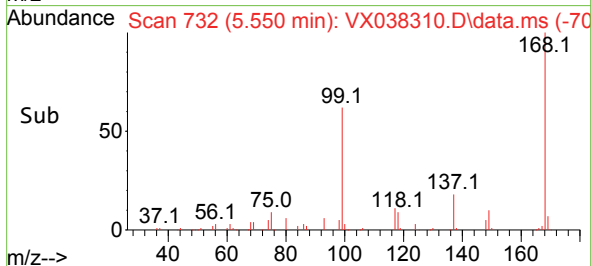
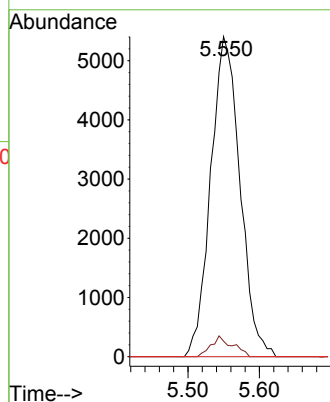
Tgt Ion:117 Resp: 15390

Ion Ratio Lower Upper

117 100

119 4.8 78.2 117.2#

121 0.0 24.4 36.6#



#41

Methacrylonitrile

Concen: 0.390 ug/l

RT: 5.080 min Scan# 655

Delta R.T. 0.158 min

Lab File: VX038310.D

Acq: 16 Oct 2023 17:41

Tgt Ion: 41 Resp: 587

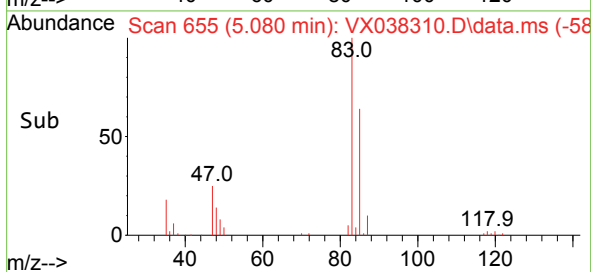
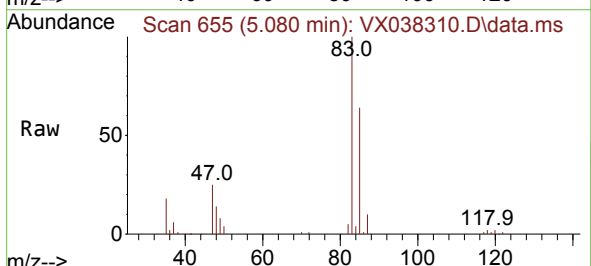
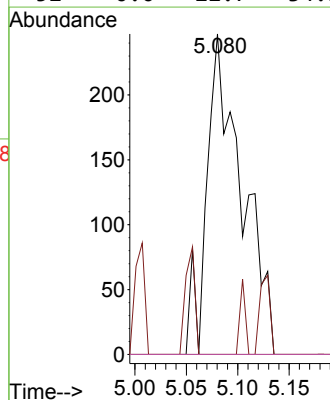
Ion Ratio Lower Upper

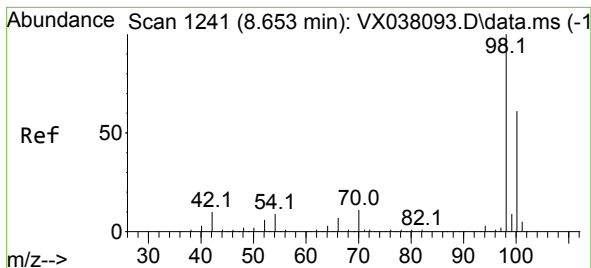
41 100

39 0.0 45.2 67.8#

67 0.0 52.6 78.8#

52 0.0 22.7 34.1#





#50

Toluene-d8

Concen: 45.315 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX038310.D

Acq: 16 Oct 2023 17:41

Instrument :

MSVOA\_X

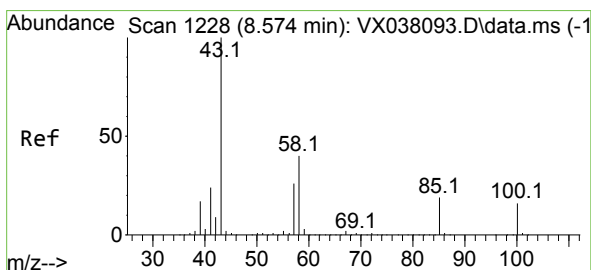
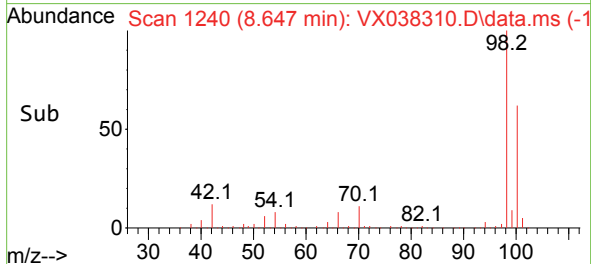
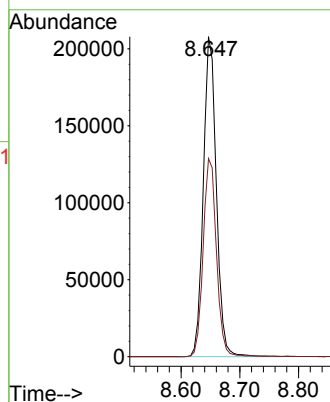
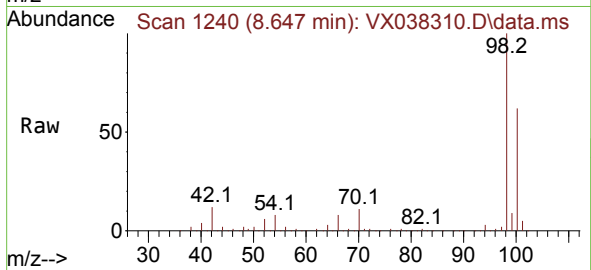
ClientSampleId :

Tgt Ion: 98 Resp: 320252

Ion Ratio Lower Upper

98 100

100 63.3 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.480 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX038310.D

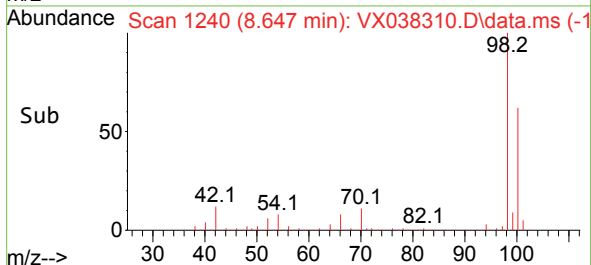
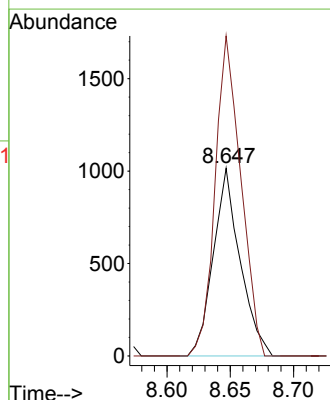
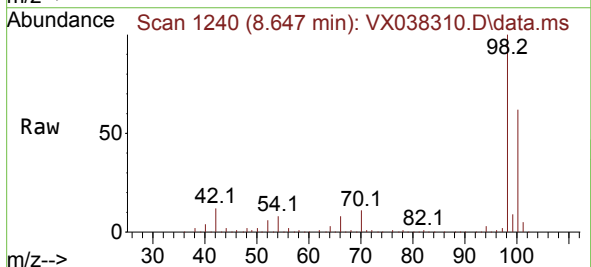
Acq: 16 Oct 2023 17:41

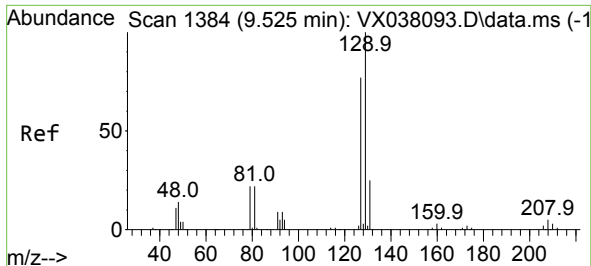
Tgt Ion: 43 Resp: 1497

Ion Ratio Lower Upper

43 100

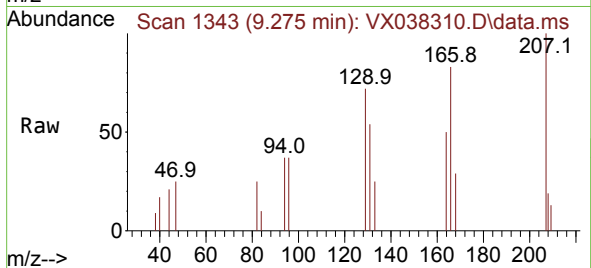
58 163.5 30.4 45.6#



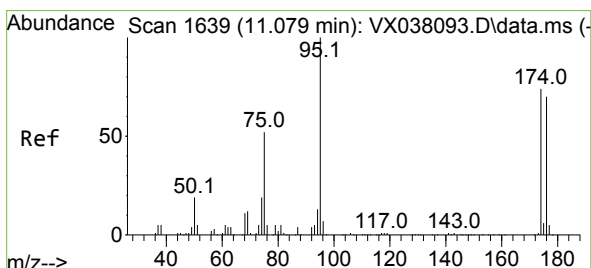
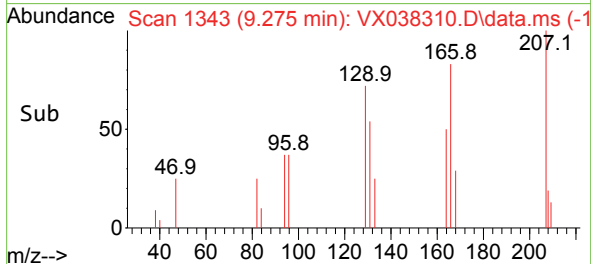
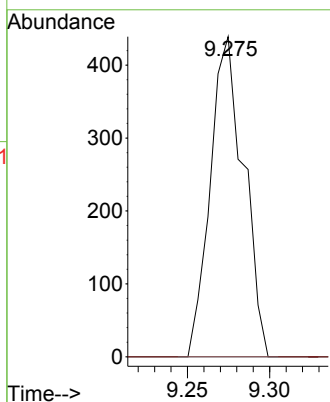


#60  
Dibromochloromethane  
Concen: 0.319 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

Instrument :  
MSVOA\_X  
ClientSampleId :

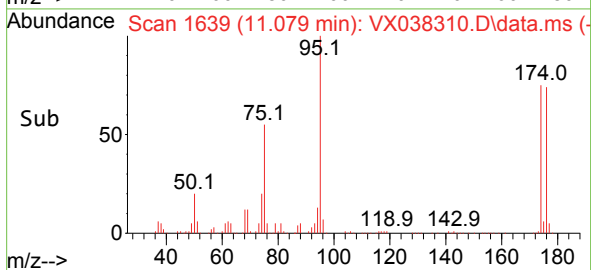
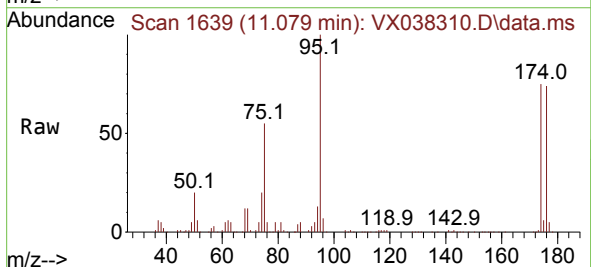
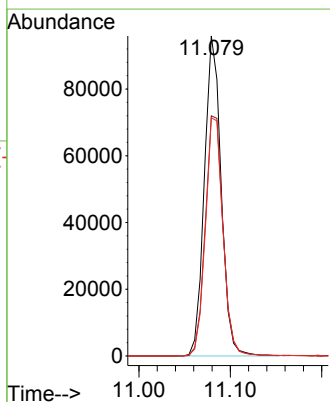


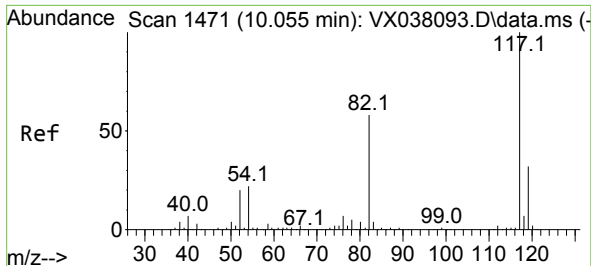
Tgt Ion:129 Resp: 620  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 45.511 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

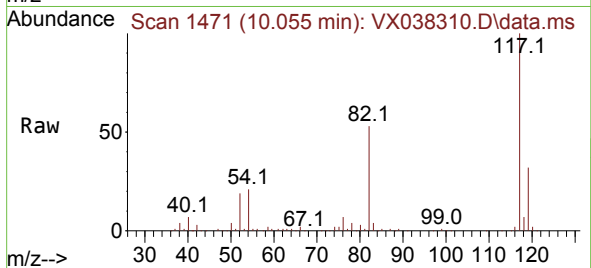
Tgt Ion: 95 Resp: 121934  
Ion Ratio Lower Upper  
95 100  
174 79.5 0.0 135.6  
176 77.9 0.0 131.0



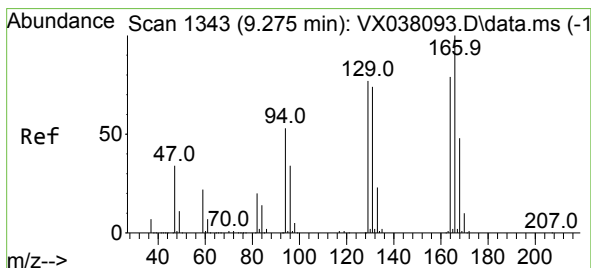
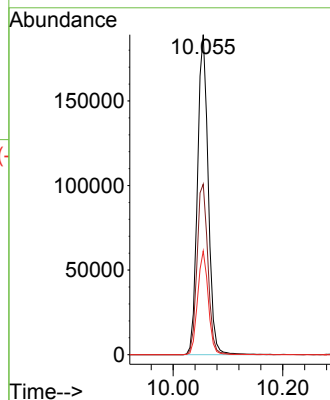
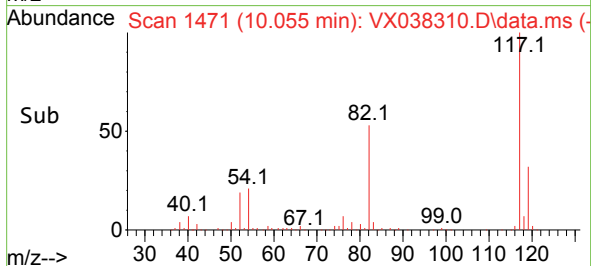


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41

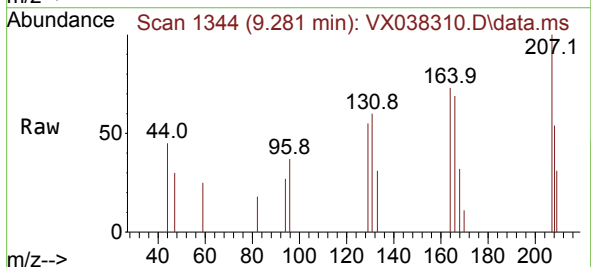
Instrument :  
MSVOA\_X  
ClientSampleId :



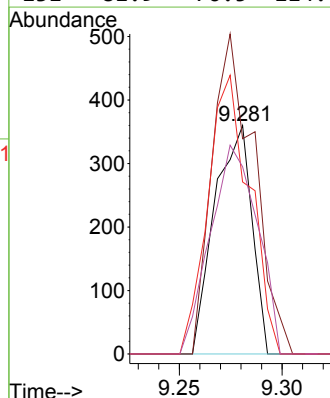
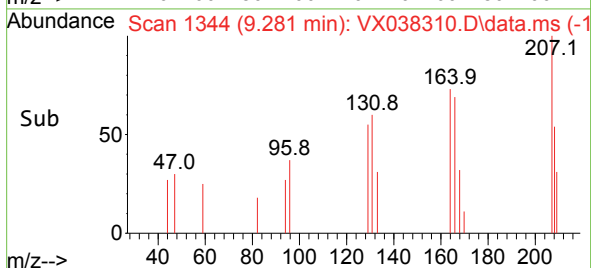
Tgt Ion:117 Resp: 258811  
Ion Ratio Lower Upper  
117 100  
82 53.3 46.2 69.4  
119 32.4 25.5 38.3

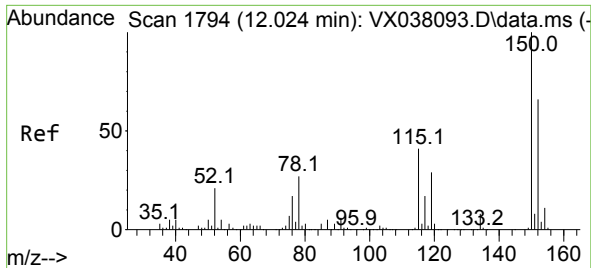


#64  
Tetrachloroethene  
Concen: 0.270 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. 0.006 min  
Lab File: VX038310.D  
Acq: 16 Oct 2023 17:41



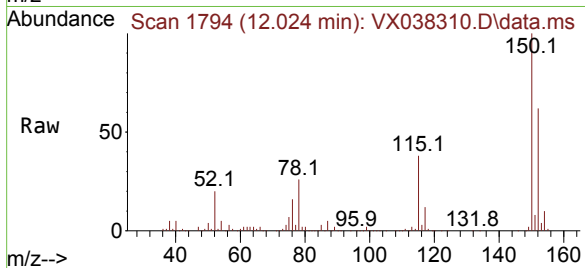
Tgt Ion:164 Resp: 452  
Ion Ratio Lower Upper  
164 100  
166 94.2 102.7 154.1#  
129 75.3 80.4 120.6#  
131 81.9 76.5 114.7



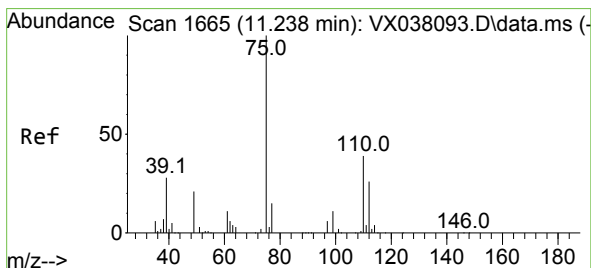
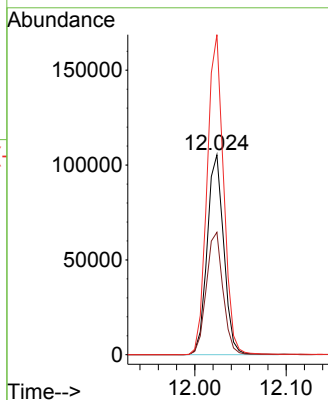
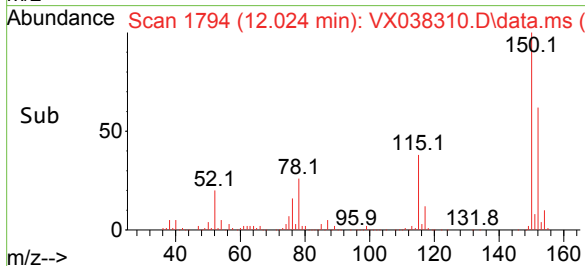


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1  
 Delta R.T. 0.000 min  
 Lab File: VX038310.D  
 Acq: 16 Oct 2023 17:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :

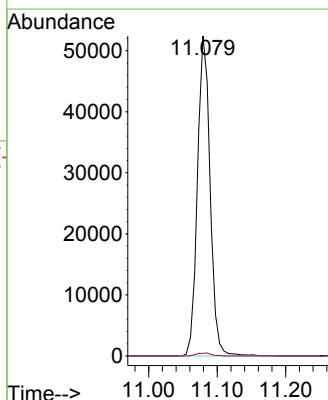
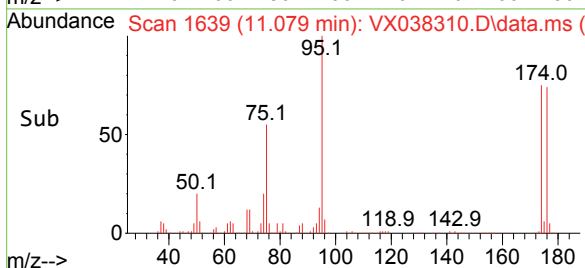
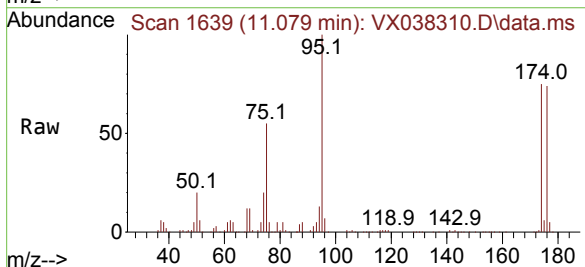


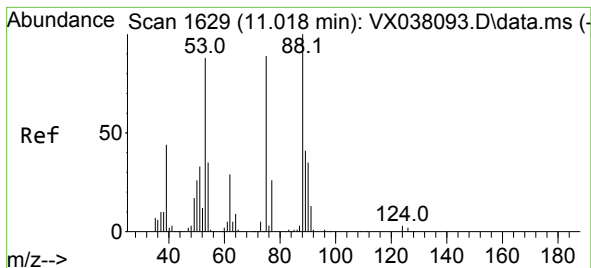
Tgt Ion:152 Resp: 132839  
 Ion Ratio Lower Upper  
 152 100  
 115 61.8 43.3 129.9  
 150 159.4 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 22.350 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX038310.D  
 Acq: 16 Oct 2023 17:41

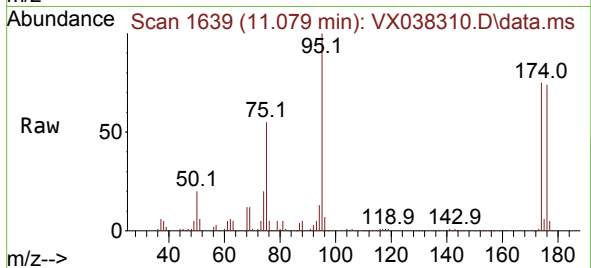
Tgt Ion: 75 Resp: 67494  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.028 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038310.D  
 Acq: 16 Oct 2023 17:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 67494  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

