

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101023\  
 Data File : VX038204.D  
 Acq On : 10 Oct 2023 16:19  
 Operator : JC/MD  
 Sample : 04782-11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 11 01:39:48 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

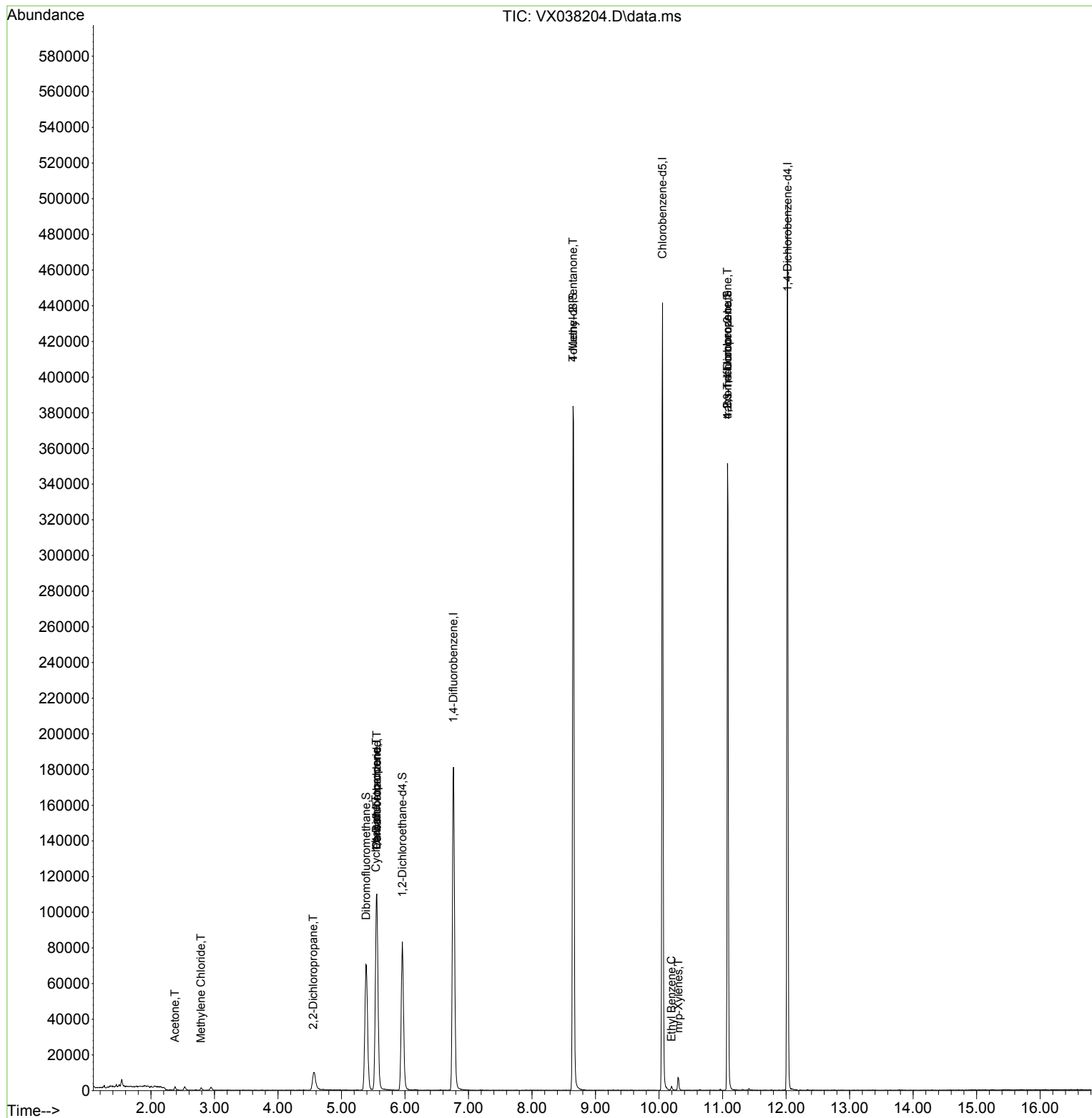
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 104423     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 185019     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 189283     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 98770      | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 77167      | 45.944    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 91.880%   |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 61447      | 46.091    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.180%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 237320     | 46.584    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 93.160%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 89487      | 46.334    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 92.660%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 5) Bromomethane               | 1.544          | 94   | 105        | Below Cal | #      | 3        |
| 6) Chloroethane               | 1.691          | 64   | 370        | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 1209       | Below Cal | #      | 78       |
| 16) Acetone                   | 2.379          | 43   | 1980       | 2.825     | ug/l # | 85       |
| 20) Methylene Chloride        | 2.788          | 84   | 559        | 0.424     | ug/l   | 86       |
| 26) 2,2-Dichloropropane       | 4.556          | 77   | 412        | 0.243     | ug/l # | 54       |
| 31) Cyclohexane               | 5.544          | 56   | 2584       | 1.420     | ug/l # | 43       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 8973       | 4.881     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 10647      | 5.887     | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 8.647          | 43   | 980        | 0.436     | ug/l # | 1        |
| 67) Ethyl Benzene             | 10.195         | 91   | 1427       | 0.202     | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.305         | 106  | 1812       | 0.663     | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 49750      | 22.156    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 49750      | 63.510    | ug/l # | 5        |
| -----                         |                |      |            |           |        |          |

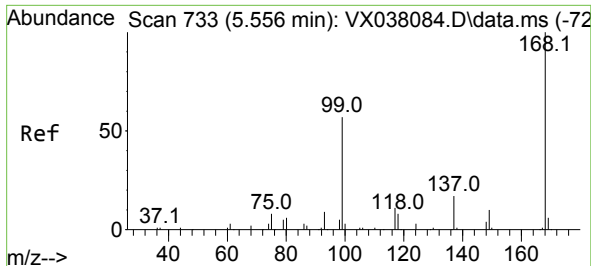
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101023\  
Data File : VX038204.D  
Acq On : 10 Oct 2023 16:19  
Operator : JC/MD  
Sample : 04782-11  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

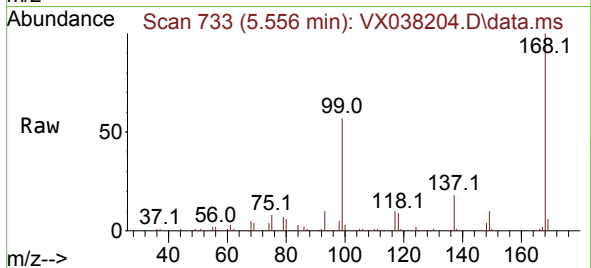
Quant Time: Oct 11 01:39:48 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration



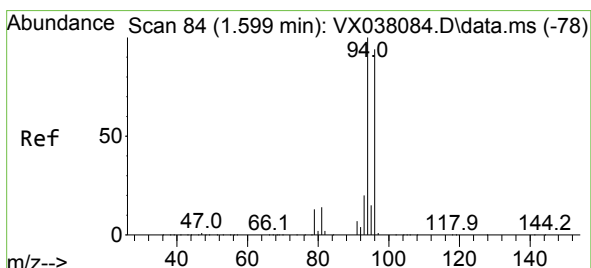
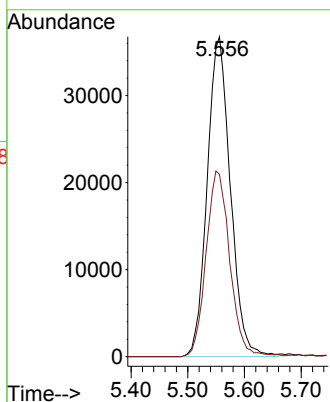
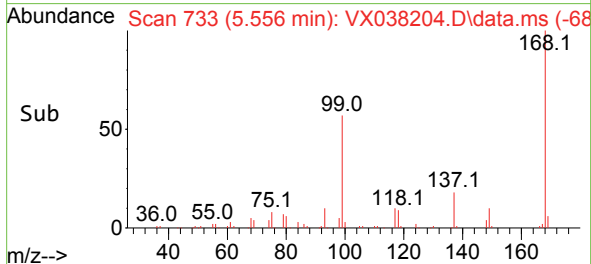


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

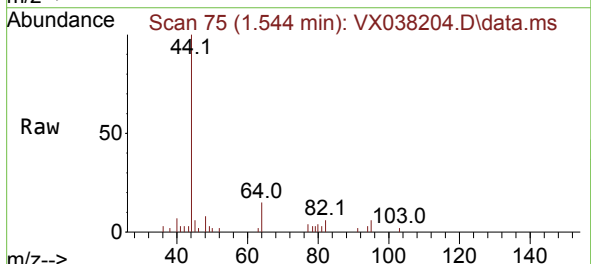
Instrument :  
MSVOA\_X  
ClientSampleId :



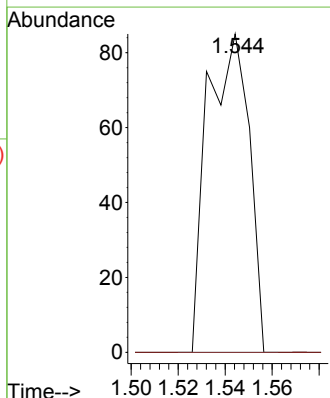
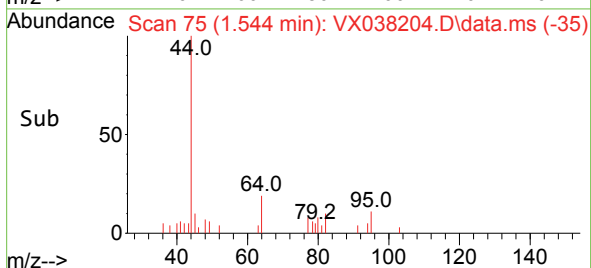
Tgt Ion:168 Resp: 104423  
Ion Ratio Lower Upper  
168 100  
99 57.0 56.6 85.0

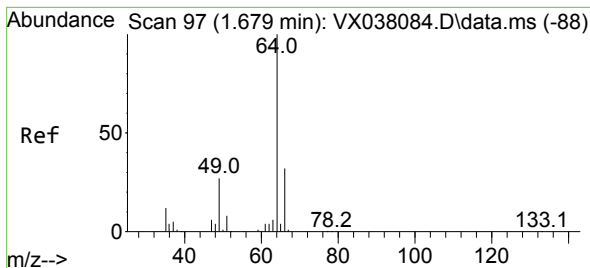


#5  
Bromomethane  
Concen: Below Cal  
RT: 1.544 min Scan# 75  
Delta R.T. -0.055 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19



Tgt Ion: 94 Resp: 105  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#





#6

Chloroethane

Concen: Below Cal

RT: 1.691 min Scan# 91

Delta R.T. 0.012 min

Lab File: VX038204.D

Acq: 10 Oct 2023 16:19

Instrument :

MSVOA\_X

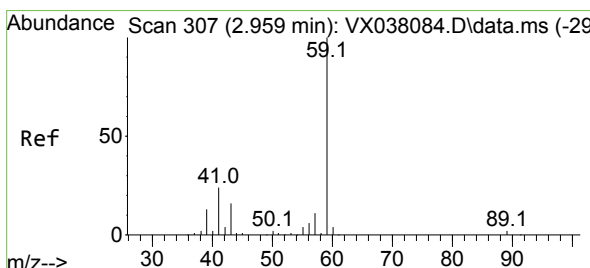
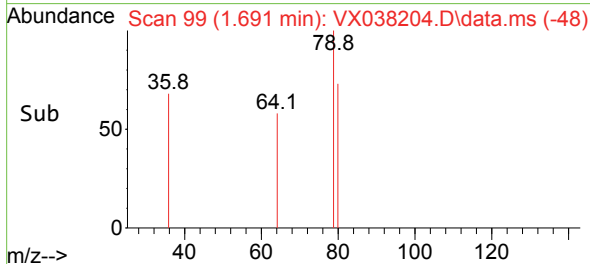
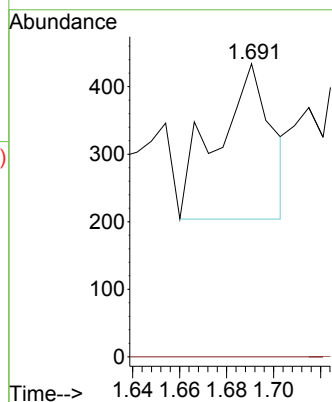
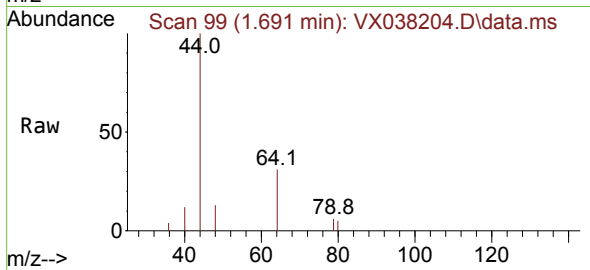
ClientSampleId :

Tgt Ion: 64 Resp: 370

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.953 min Scan# 306

Delta R.T. -0.006 min

Lab File: VX038204.D

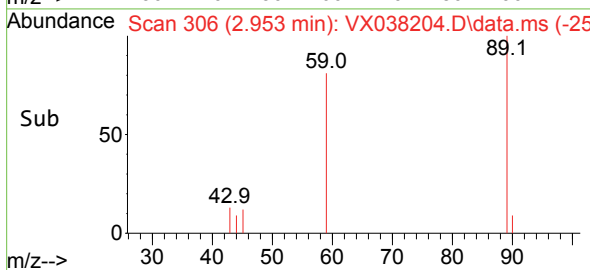
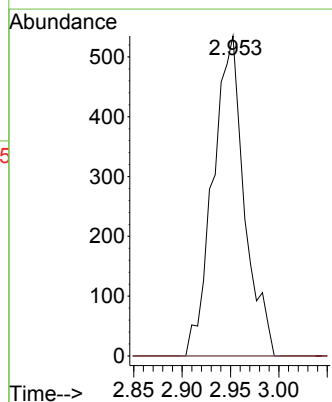
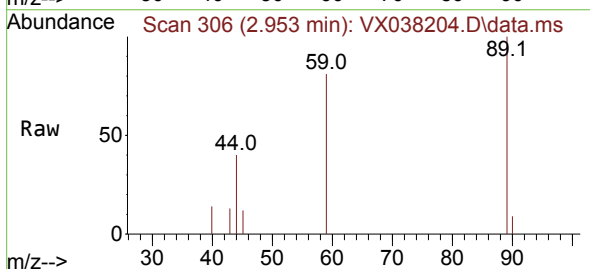
Acq: 10 Oct 2023 16:19

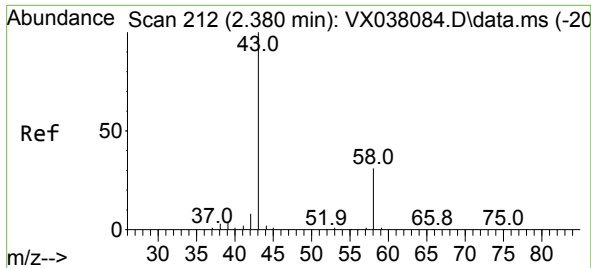
Tgt Ion: 59 Resp: 1209

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#

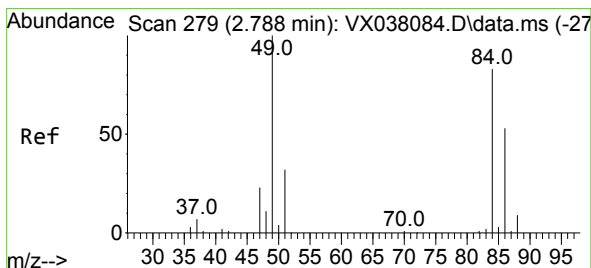
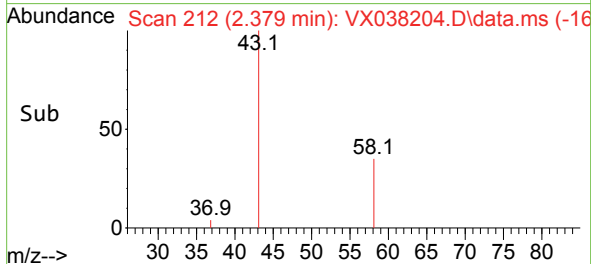
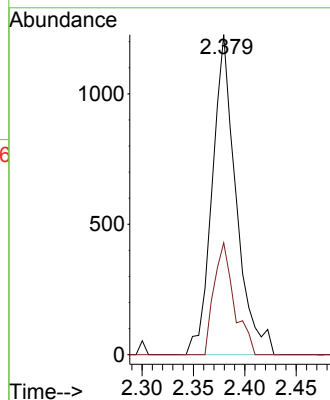
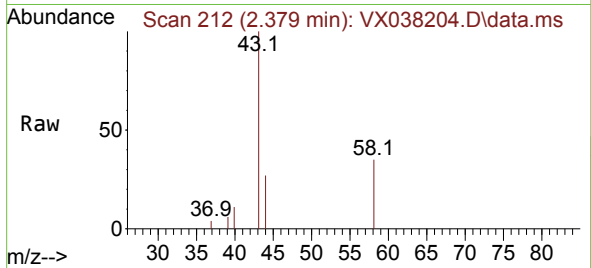




#16  
Acetone  
Concen: 2.825 ug/l  
RT: 2.379 min Scan# 212  
Delta R.T. -0.001 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

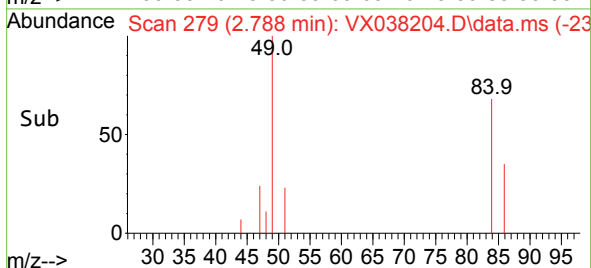
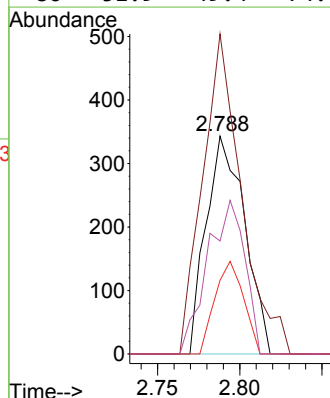
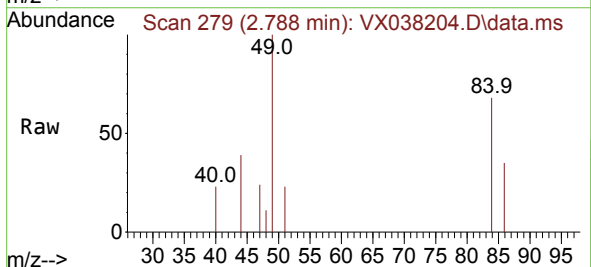
Instrument :  
MSVOA\_X  
ClientSampleId :

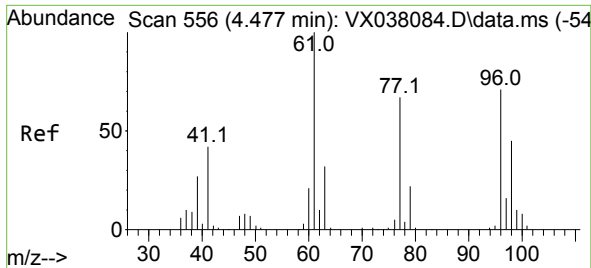
Tgt Ion: 43 Resp: 1980  
Ion Ratio Lower Upper  
43 100  
58 35.0 21.9 32.9#



#20  
Methylene Chloride  
Concen: 0.424 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

Tgt Ion: 84 Resp: 559  
Ion Ratio Lower Upper  
84 100  
49 146.9 103.6 155.4  
51 33.8 33.8 50.6  
86 51.9 49.4 74.0

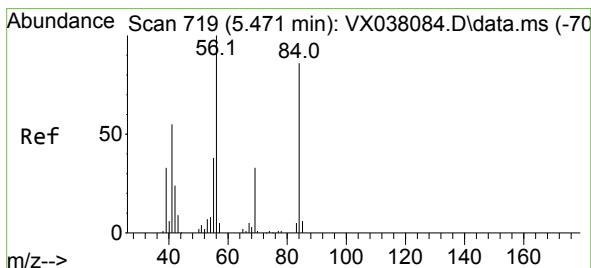
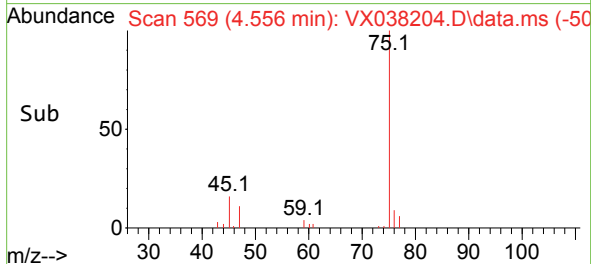
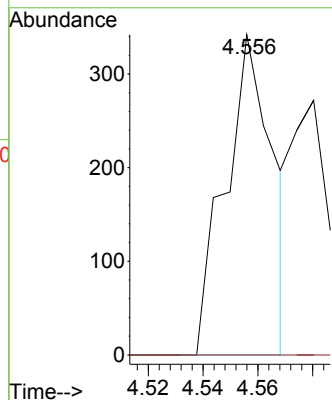
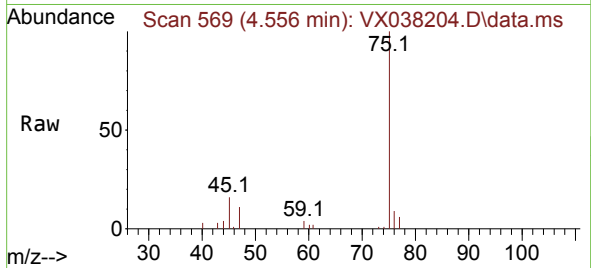




#26  
2,2-Dichloropropane  
Concen: 0.243 ug/l  
RT: 4.556 min Scan# 509  
Delta R.T. 0.079 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

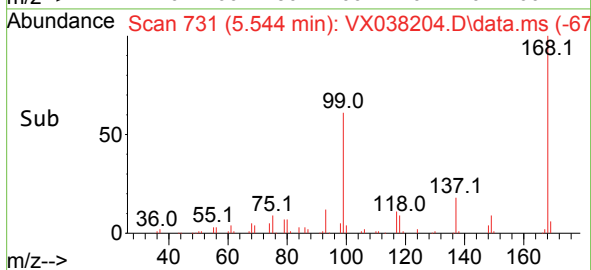
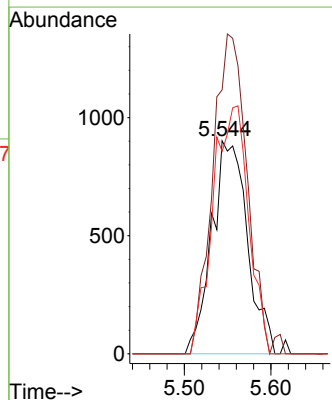
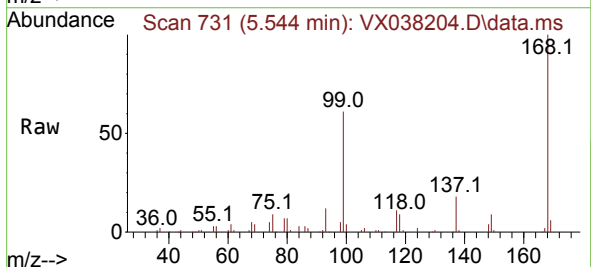
Instrument :  
MSVOA\_X  
ClientSampleId :

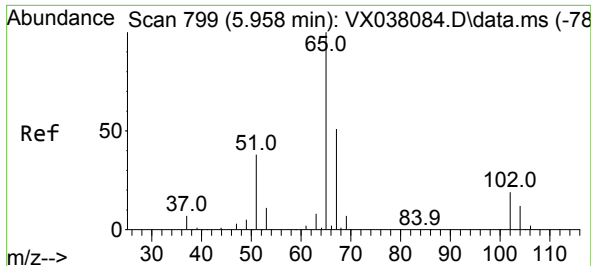
Tgt Ion: 77 Resp: 412  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.8 32.3#



#31  
Cyclohexane  
Concen: 1.420 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.073 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

Tgt Ion: 56 Resp: 2584  
Ion Ratio Lower Upper  
56 100  
69 123.9 23.4 35.2#  
84 95.0 65.9 98.9

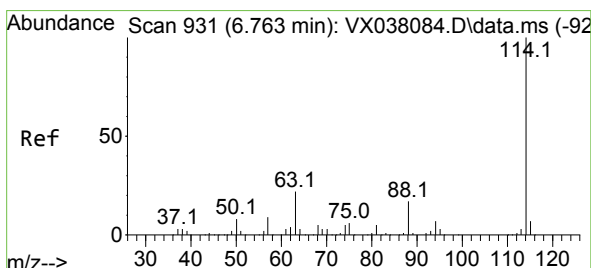
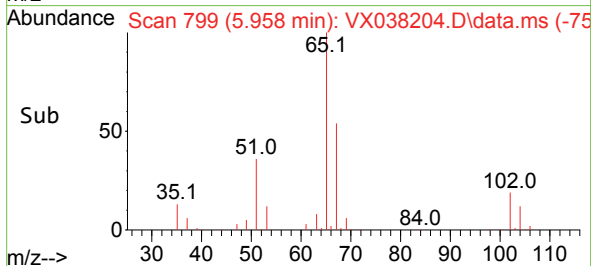
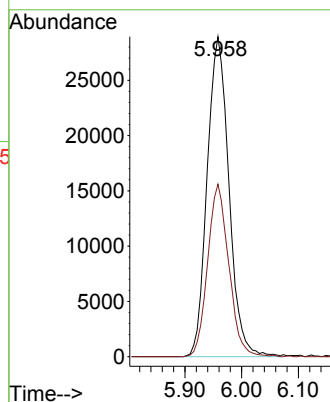
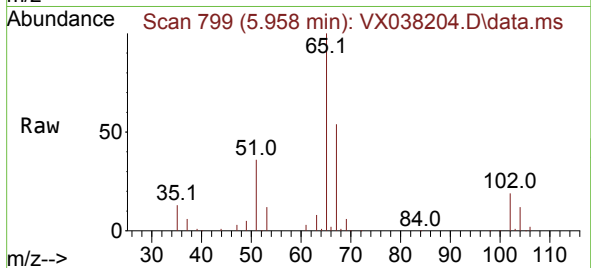




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.944 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX038204.D  
 Acq: 10 Oct 2023 16:19

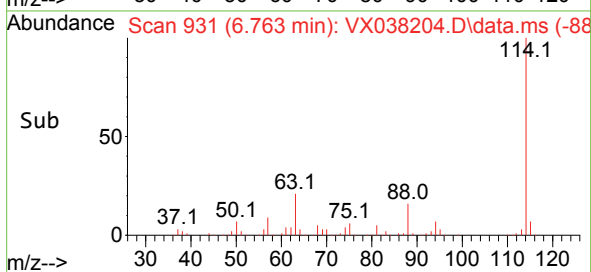
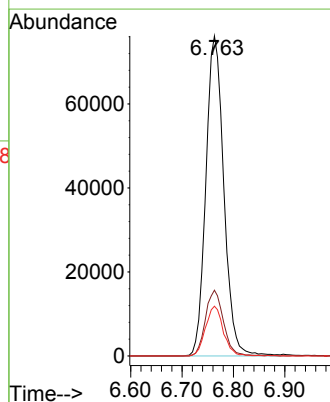
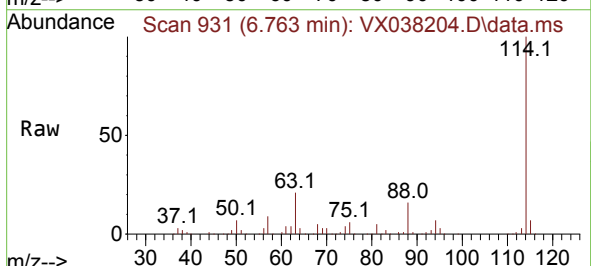
Instrument :  
 MSVOA\_X  
 ClientSampleId :

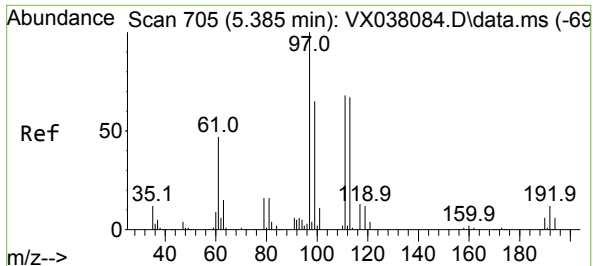
Tgt Ion: 65 Resp: 77167  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX038204.D  
 Acq: 10 Oct 2023 16:19

Tgt Ion:114 Resp: 185019  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 0.0 45.0  
 88 15.6 0.0 36.6

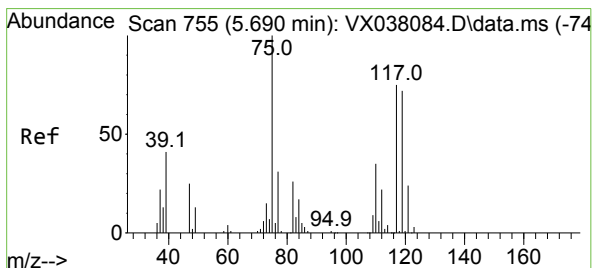
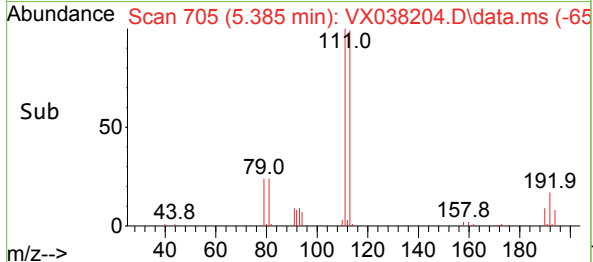
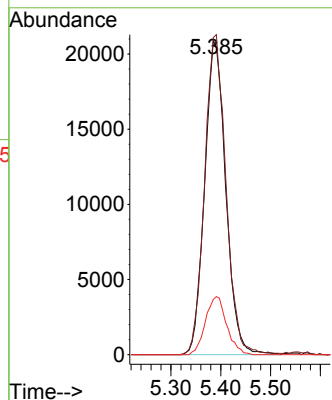
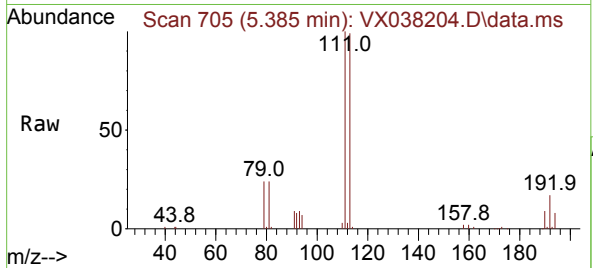




#35  
Dibromofluoromethane  
Concen: 46.091 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

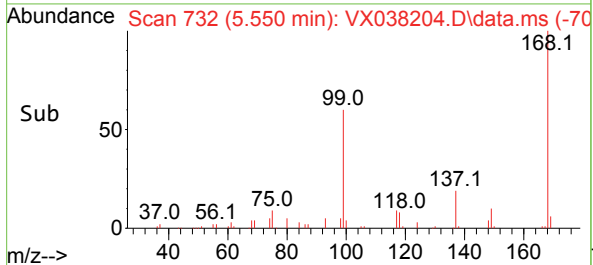
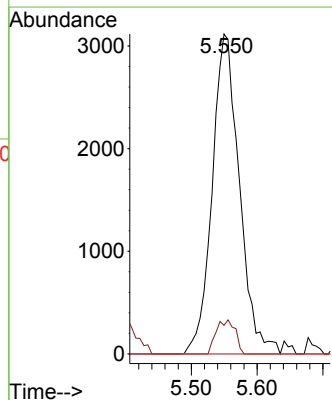
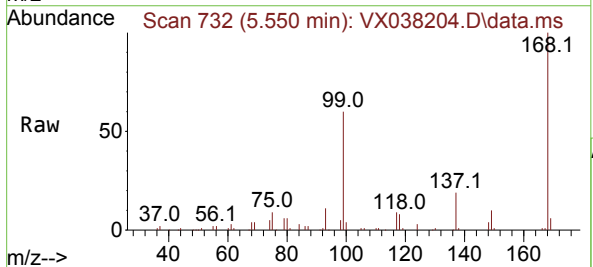
Instrument :  
MSVOA\_X  
ClientSampleId :

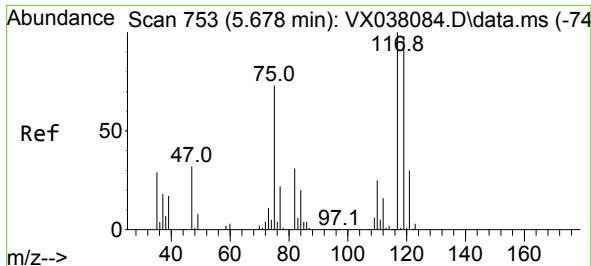
Tgt Ion:113 Resp: 61447  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.9 124.3  
192 18.6 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.881 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

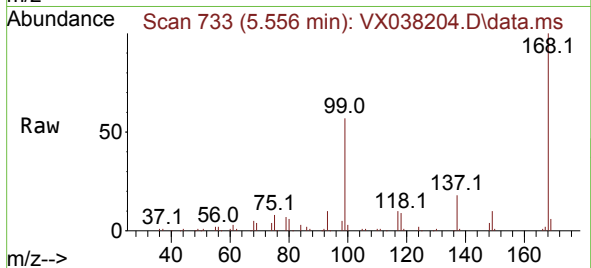
Tgt Ion: 75 Resp: 8973  
Ion Ratio Lower Upper  
75 100  
110 7.4 17.0 50.9#  
77 0.0 24.7 37.1#



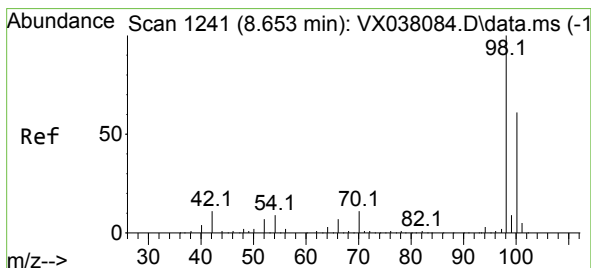
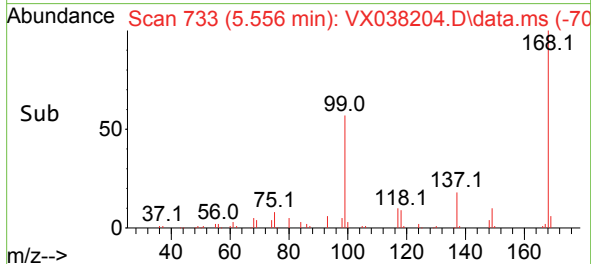
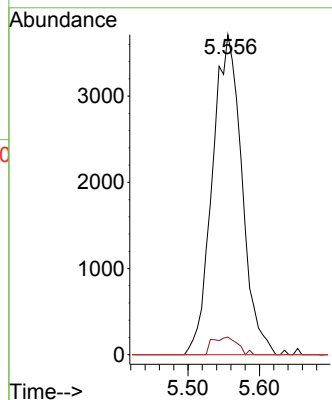


#38  
Carbon Tetrachloride  
Concen: 5.887 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

Instrument :  
MSVOA\_X  
ClientSampleId :

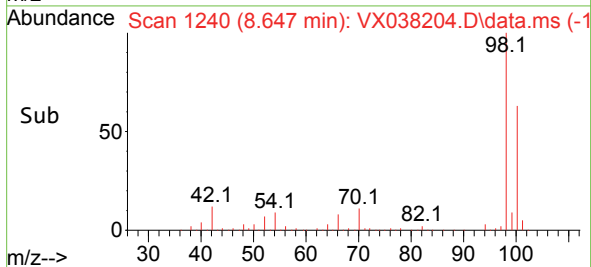
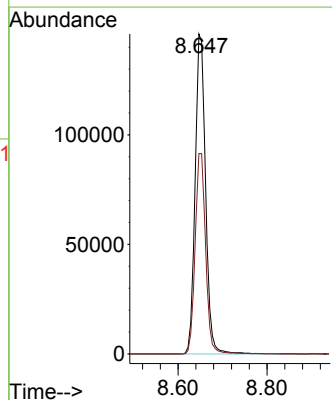
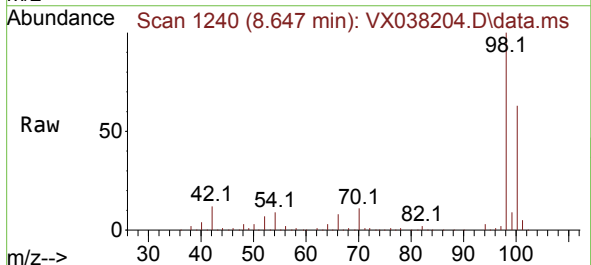


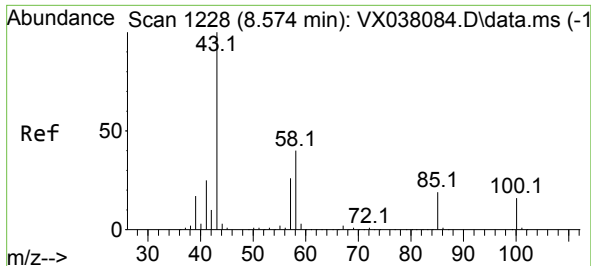
Tgt Ion:117 Resp: 10647  
Ion Ratio Lower Upper  
117 100  
119 5.5 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 46.584 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

Tgt Ion: 98 Resp: 237320  
Ion Ratio Lower Upper  
98 100  
100 63.0 53.1 79.7

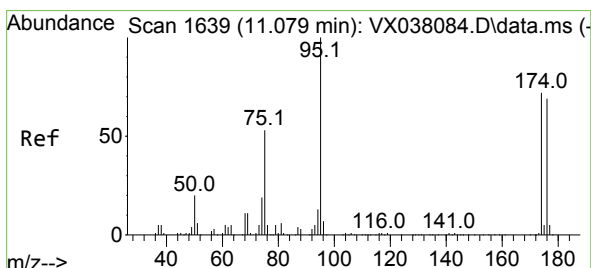
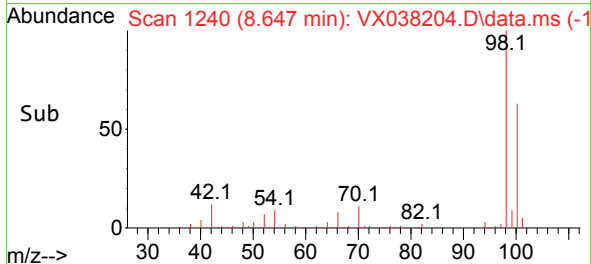
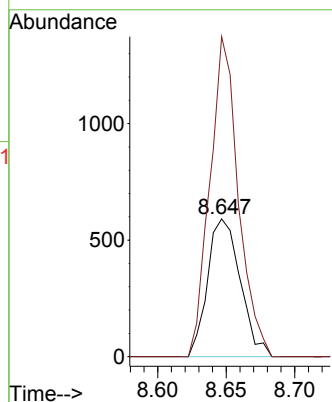
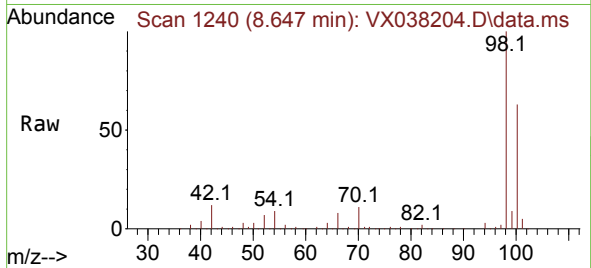




#51  
4-Methyl-2-Pentanone  
Concen: 0.436 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

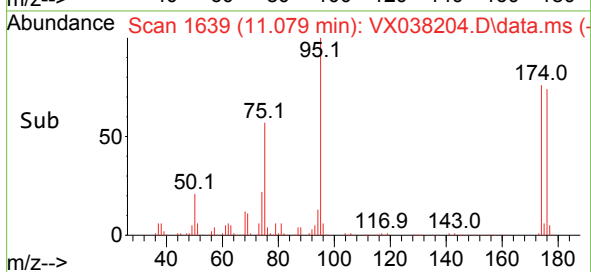
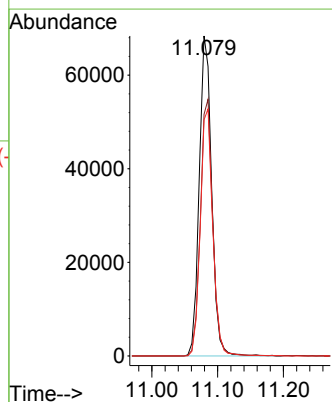
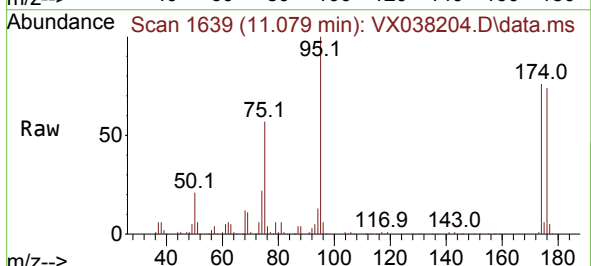
Instrument :  
MSVOA\_X  
ClientSampleId :

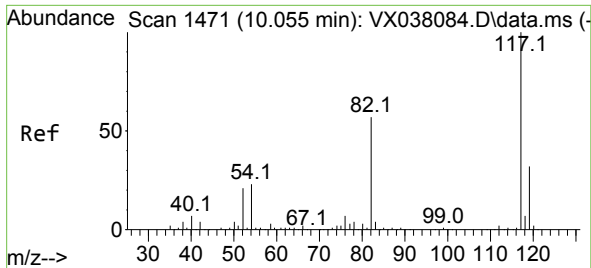
Tgt Ion: 43 Resp: 980  
Ion Ratio Lower Upper  
43 100  
58 202.9 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 46.334 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

Tgt Ion: 95 Resp: 89487  
Ion Ratio Lower Upper  
95 100  
174 80.1 0.0 135.6  
176 77.6 0.0 131.0

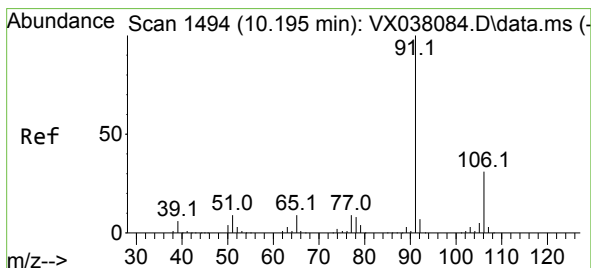
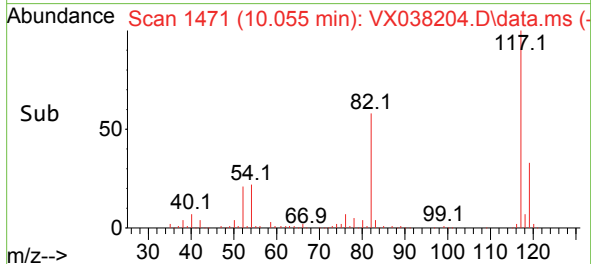
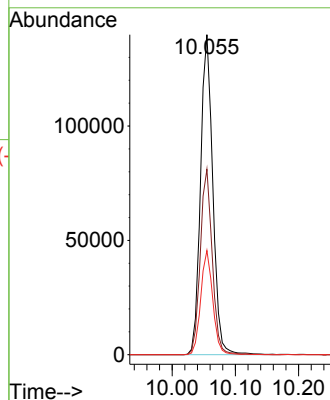
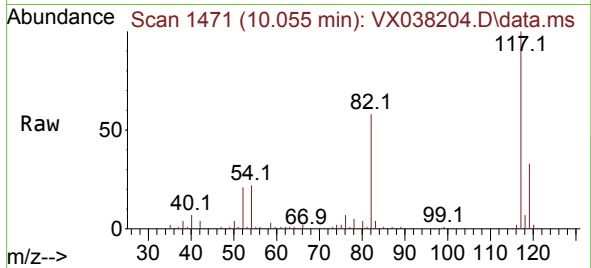




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

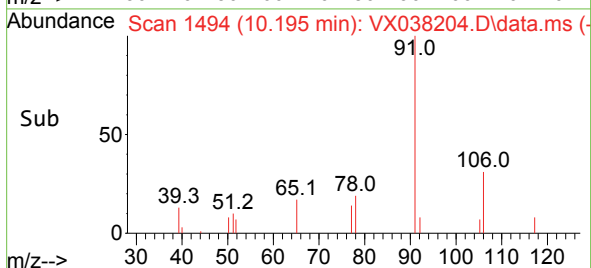
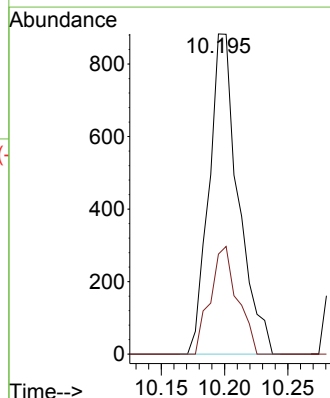
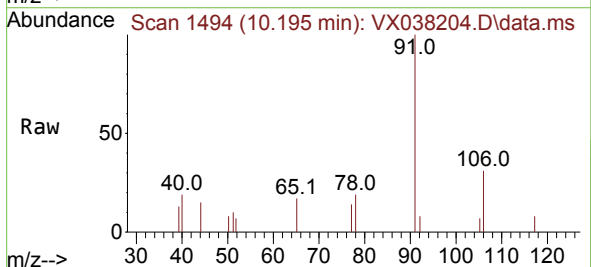
Instrument :  
MSVOA\_X  
ClientSampleId :

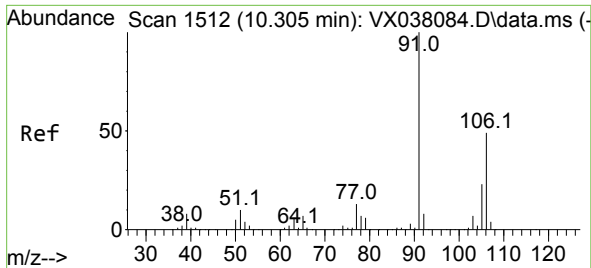
Tgt Ion:117 Resp: 189283  
Ion Ratio Lower Upper  
117 100  
82 57.9 46.2 69.4  
119 32.6 25.5 38.3



#67  
Ethyl Benzene  
Concen: 0.202 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

Tgt Ion: 91 Resp: 1427  
Ion Ratio Lower Upper  
91 100  
106 31.3 24.9 37.3

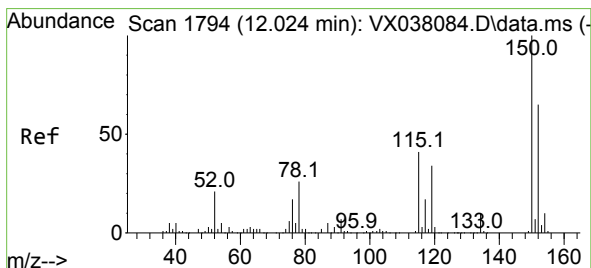
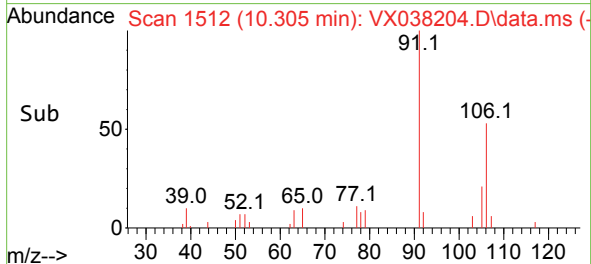
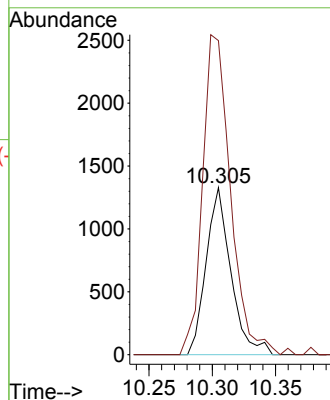
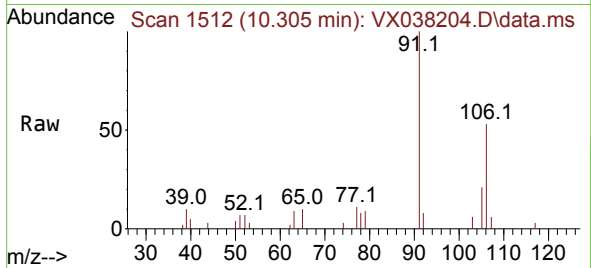




#68  
m/p-Xylenes  
Concen: 0.663 ug/l  
RT: 10.305 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

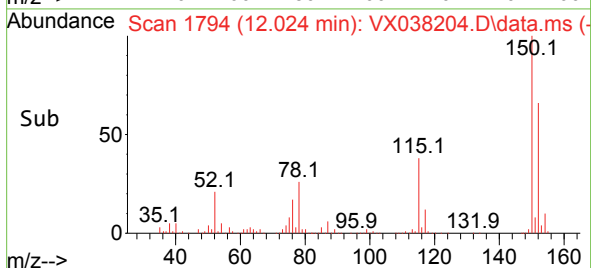
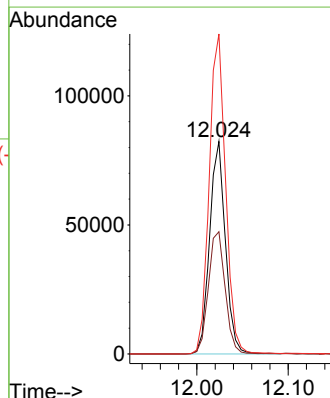
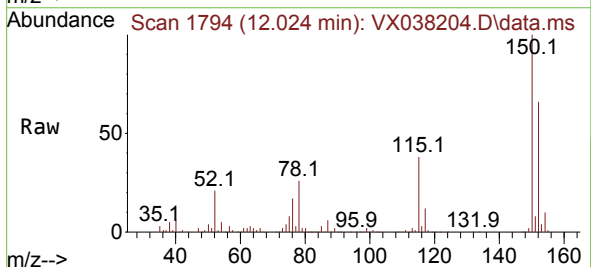
Instrument :  
MSVOA\_X  
ClientSampleId :

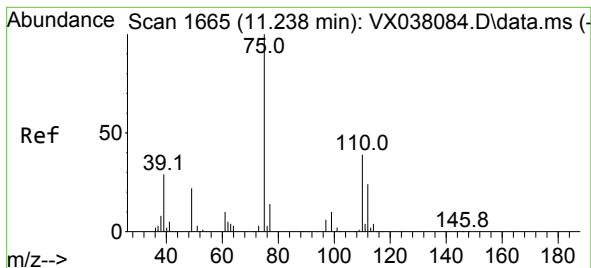
Tgt Ion:106 Resp: 1812  
Ion Ratio Lower Upper  
106 100  
91 216.4 165.5 248.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX038204.D  
Acq: 10 Oct 2023 16:19

Tgt Ion:152 Resp: 98770  
Ion Ratio Lower Upper  
152 100  
115 61.2 43.3 129.9  
150 156.0 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 22.156 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX038204.D

Acq: 10 Oct 2023 16:19

Instrument :

MSVOA\_X

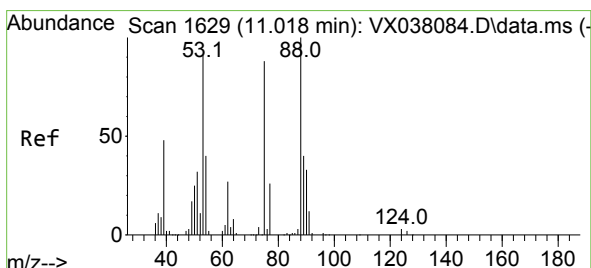
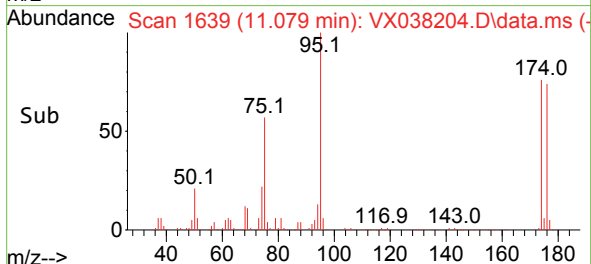
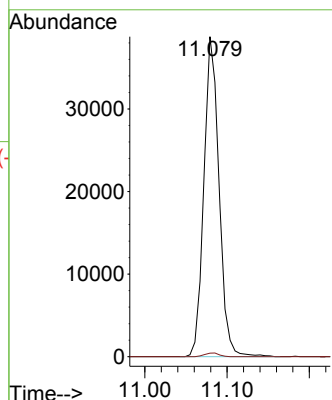
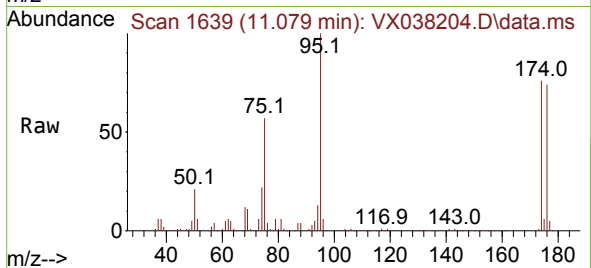
ClientSampleId :

Tgt Ion: 75 Resp: 49750

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.510 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038204.D

Acq: 10 Oct 2023 16:19

Tgt Ion: 75 Resp: 49750

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

