

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031323\  
 Data File : VX034443.D  
 Acq On : 13 Mar 2023 19:20  
 Operator : JC/MD  
 Sample : 01879-20  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 14 02:29:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 13 10:29:32 2023  
 Response via : Initial Calibration

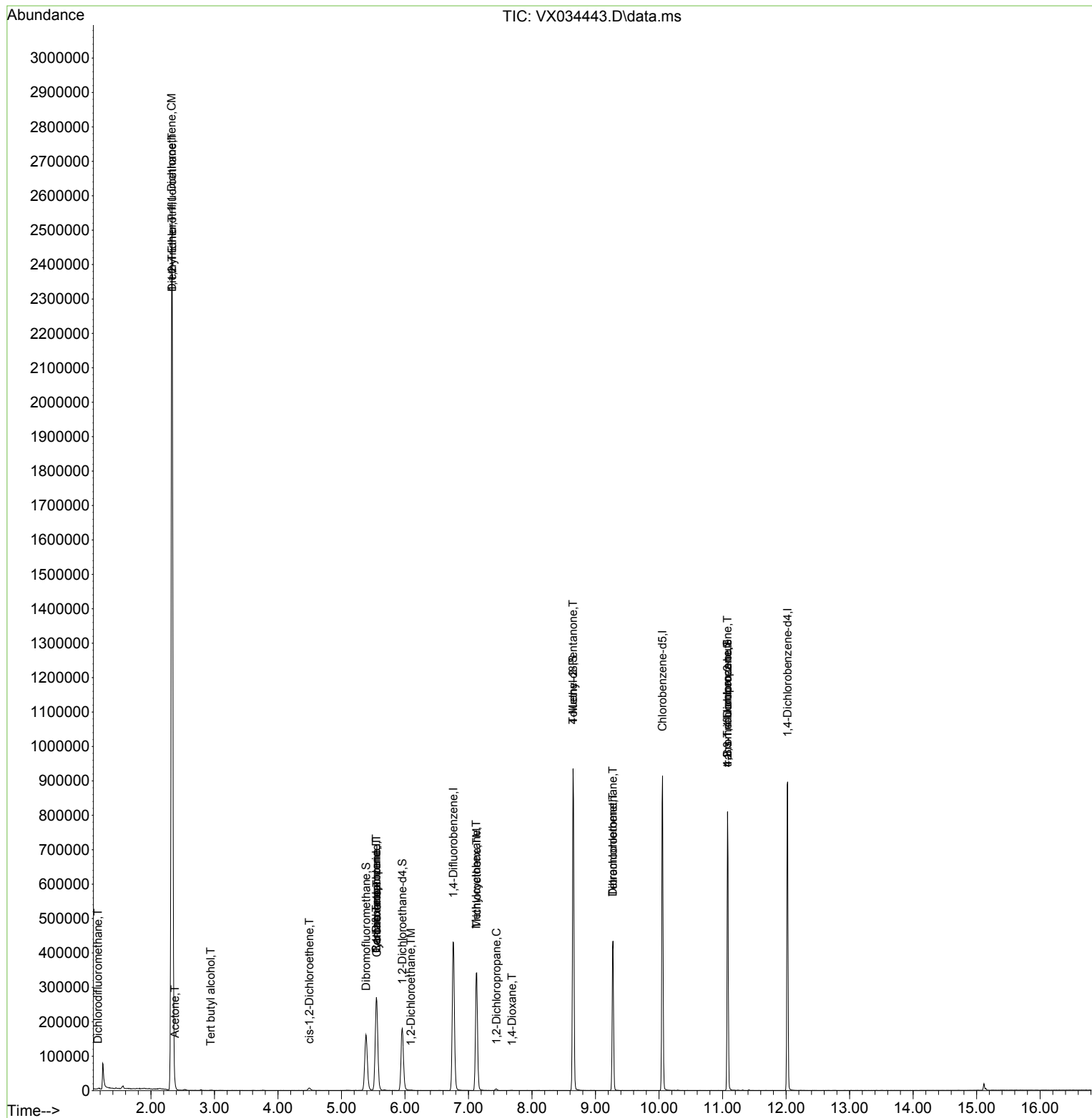
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 260693   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 446741   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 406232   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 185753   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 172021   | 45.358    | ug/l   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 90.720%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 139420   | 47.267    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 94.540%  |
| 50) Toluene-d8                | 8.647  | 98    | 537198   | 48.787    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 97.580%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 207319   | 46.614    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 93.220%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166  | 85    | 647      | 0.266     | ug/l   | 95       |
| 3) Chloromethane              | 1.288  | 50    | 287      | Below Cal | #      | 42       |
| 8) Diethyl Ether              | 2.331  | 74    | 900      | 0.496     | ug/l # | 12       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 1014649  | 350.144   | ug/l   | 100      |
| 11) Tert butyl alcohol        | 2.940  | 59    | 450      | 0.570     | ug/l # | 87       |
| 12) 1,1-Dichloroethene        | 2.325  | 96    | 6420     | 2.250     | ug/l # | 69       |
| 16) Acetone                   | 2.379  | 43    | 1287     | 0.720     | ug/l # | 46       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 4730     | 1.296     | ug/l   | 87       |
| 31) Cyclohexane               | 5.556  | 56    | 5924     | 1.114     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 20440    | 4.512     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 25571    | 5.674     | ug/l # | 16       |
| 39) Methylcyclohexane         | 7.122  | 83    | 1726     | 0.318     | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 6.092  | 62    | 1110     | 0.228     | ug/l   | 88       |
| 44) Trichloroethene           | 7.129  | 130   | 136260   | 39.570    | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.439  | 63    | 2073     | 0.599     | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.683  | 88    | 612      | 7.226     | ug/l # | 32       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 2479     | 0.510     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 76700    | 22.458    | ug/l # | 10       |
| 64) Tetrachloroethene         | 9.275  | 164   | 80510    | 29.504    | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 107382   | 25.177    | ug/l # | 35       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 107382   | 68.111    | ug/l # | 8        |
| -----                         |        |       |          |           |        |          |

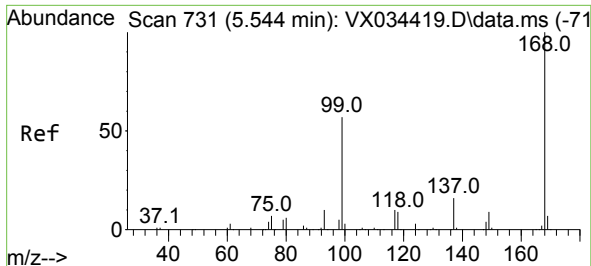
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 13 10:29:32 2023  
Response via : Initial Calibration

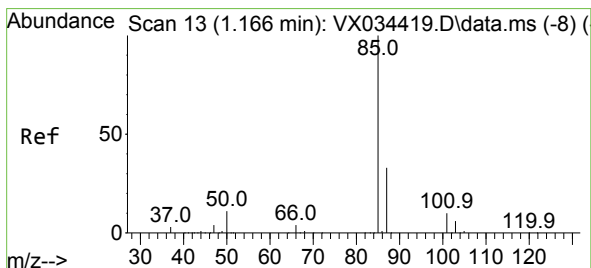
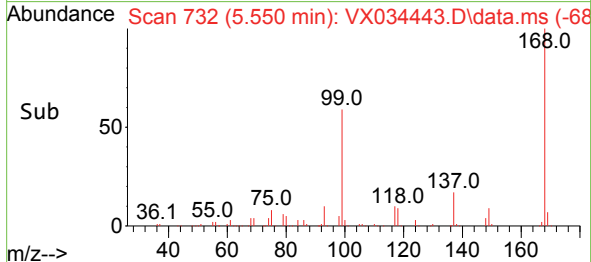
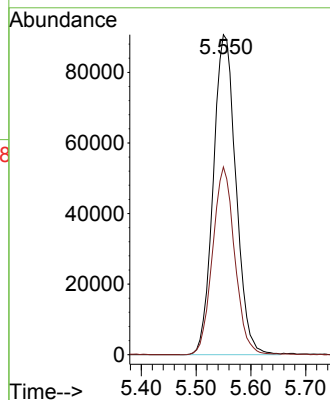
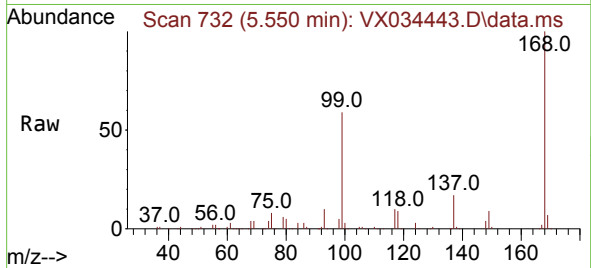




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

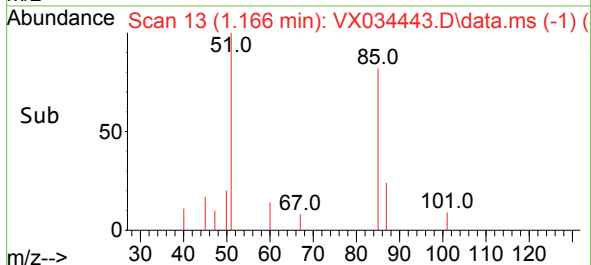
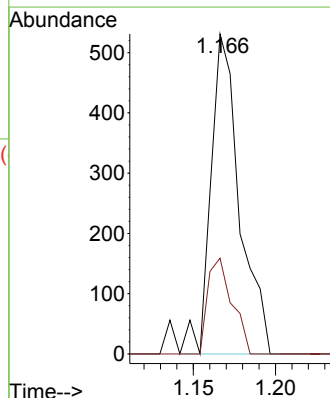
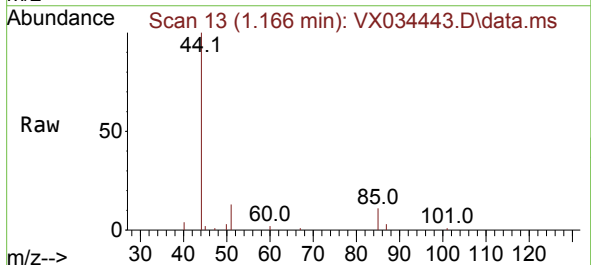
Instrument :  
MSVOA\_X  
ClientSampleId :

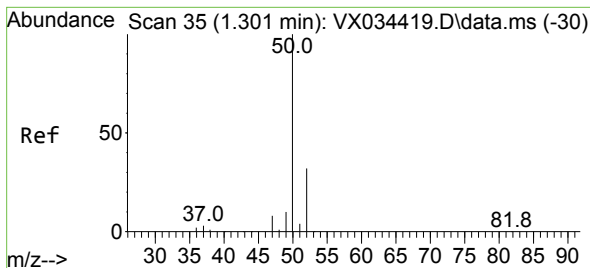
Tgt Ion:168 Resp: 260693  
Ion Ratio Lower Upper  
168 100  
99 58.7 45.7 68.5



#2  
Dichlorodifluoromethane  
Concen: 0.266 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Tgt Ion: 85 Resp: 647  
Ion Ratio Lower Upper  
85 100  
87 29.9 16.4 49.1





#3

Chloromethane

Concen: Below Cal

RT: 1.288 min Scan# 31

Delta R.T. -0.013 min

Lab File: VX034443.D

Acq: 13 Mar 2023 19:20

Instrument :

MSVOA\_X

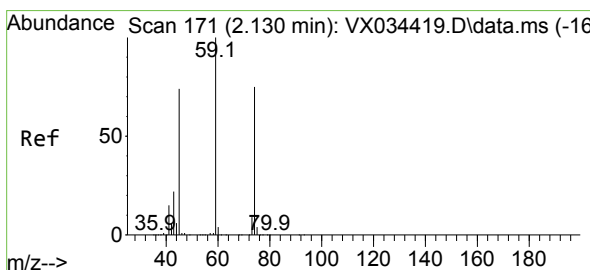
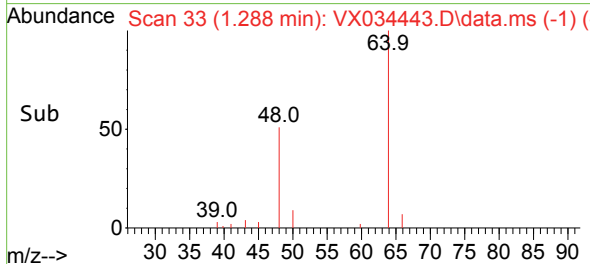
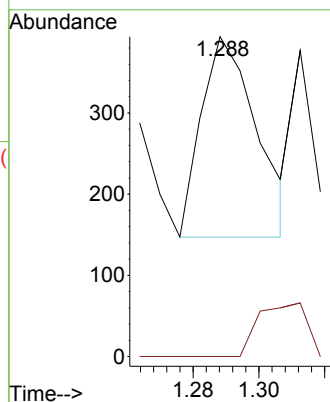
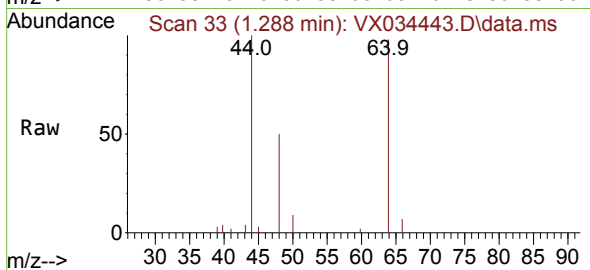
ClientSampleId :

Tgt Ion: 50 Resp: 287

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



#8

Diethyl Ether

Concen: 0.496 ug/l

RT: 2.331 min Scan# 204

Delta R.T. 0.201 min

Lab File: VX034443.D

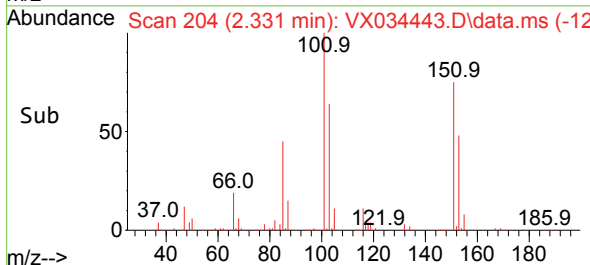
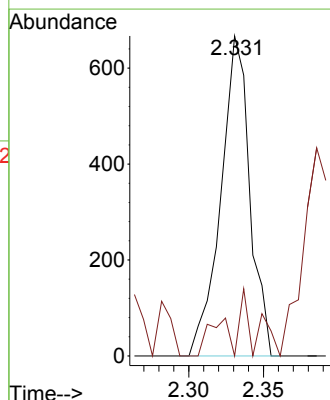
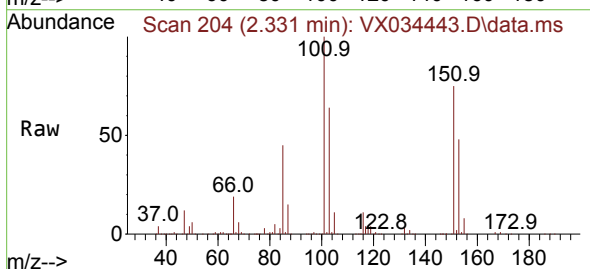
Acq: 13 Mar 2023 19:20

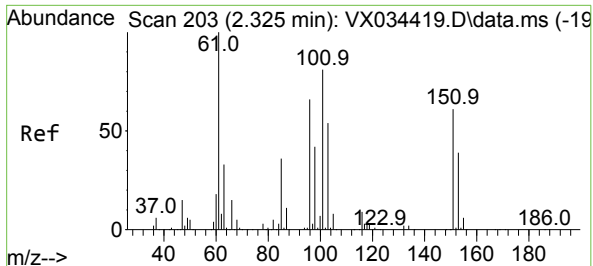
Tgt Ion: 74 Resp: 900

Ion Ratio Lower Upper

74 100

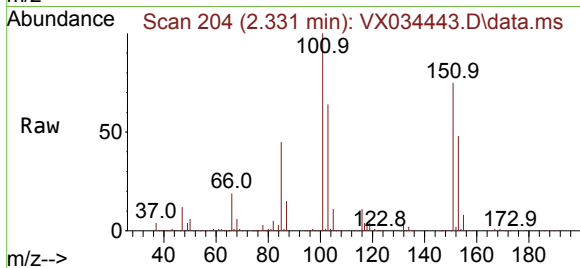
45 11.3 49.8 149.3#



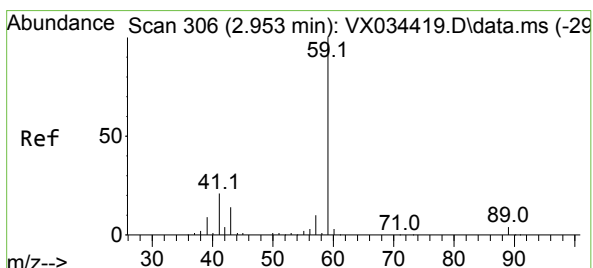
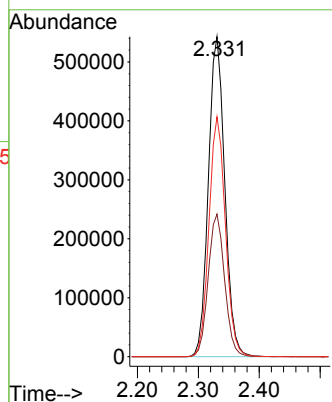
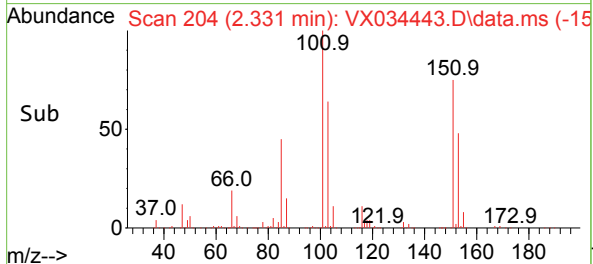


#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 350.144 ug/l  
RT: 2.331 min Scan# 203  
Delta R.T. 0.006 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Instrument :  
MSVOA\_X  
ClientSampleId :

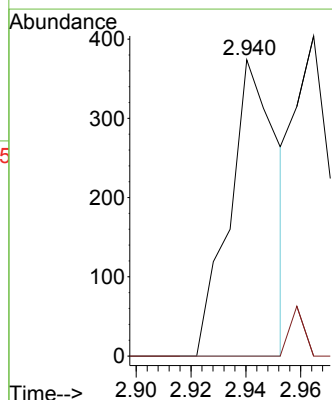
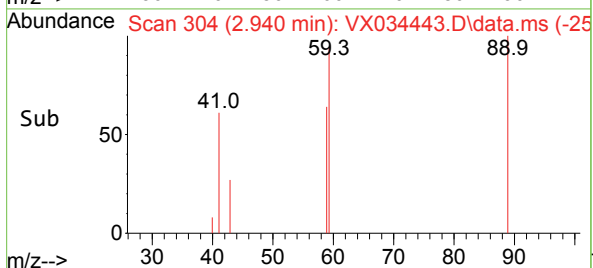
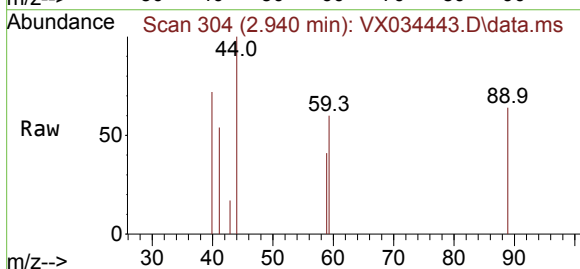


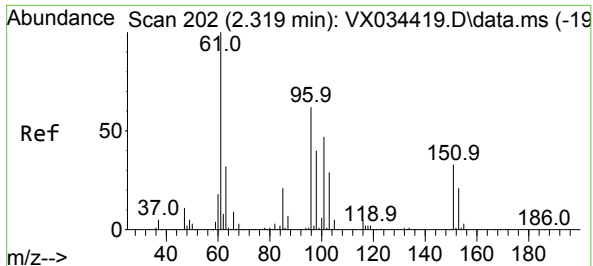
Tgt Ion:101 Resp: 1014649  
Ion Ratio Lower Upper  
101 100  
85 44.8 35.4 53.2  
151 75.4 60.2 90.4



#11  
Tert butyl alcohol  
Concen: 0.570 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.012 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Tgt Ion: 59 Resp: 450  
Ion Ratio Lower Upper  
59 100  
57 5.1 8.1 12.1#





#12

1,1-Dichloroethene

Concen: 2.250 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX034443.D

Acq: 13 Mar 2023 19:20

Instrument :

MSVOA\_X

ClientSampleId :

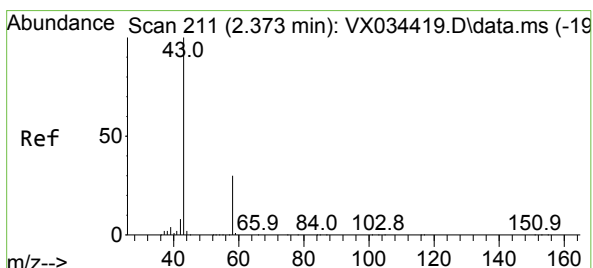
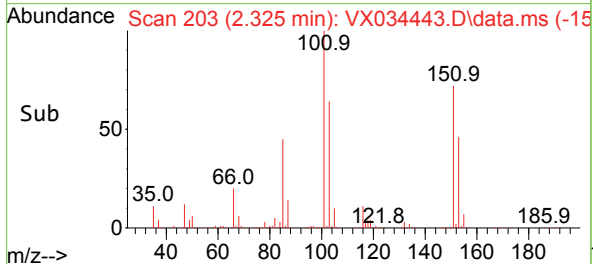
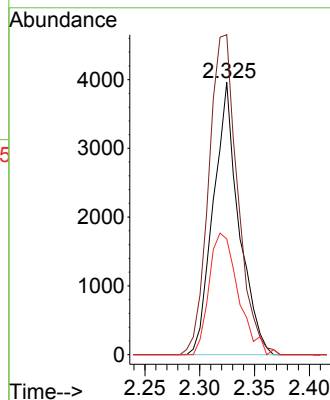
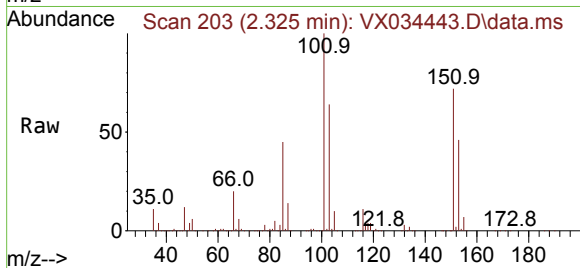
Tgt Ion: 96 Resp: 6420

Ion Ratio Lower Upper

96 100

61 117.5 128.8 193.2#

98 42.5 51.4 77.0#



#16

Acetone

Concen: 0.720 ug/l

RT: 2.379 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX034443.D

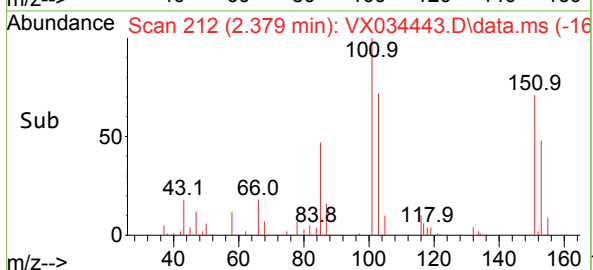
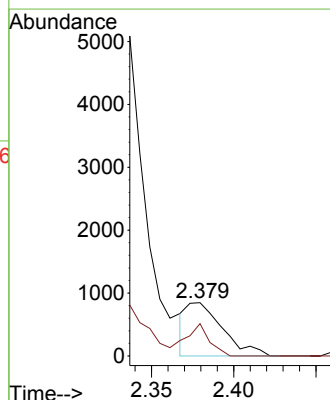
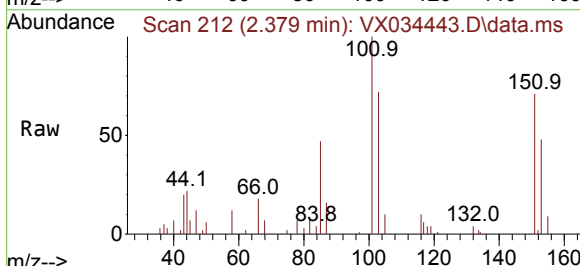
Acq: 13 Mar 2023 19:20

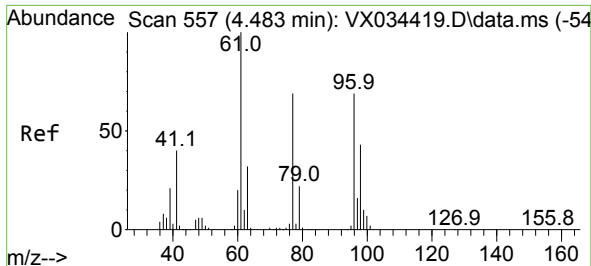
Tgt Ion: 43 Resp: 1287

Ion Ratio Lower Upper

43 100

58 60.6 24.7 37.1#





#27

cis-1,2-Dichloroethene

Concen: 1.296 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX034443.D

Acq: 13 Mar 2023 19:20

Instrument :

MSVOA\_X

ClientSampleId :

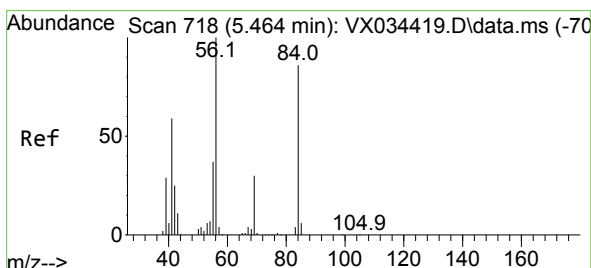
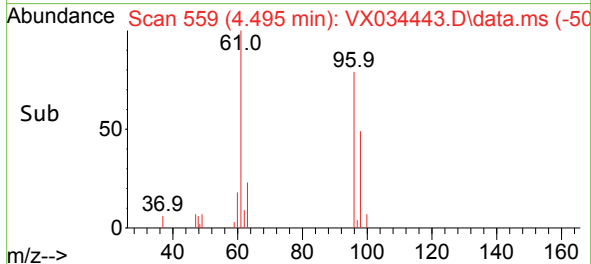
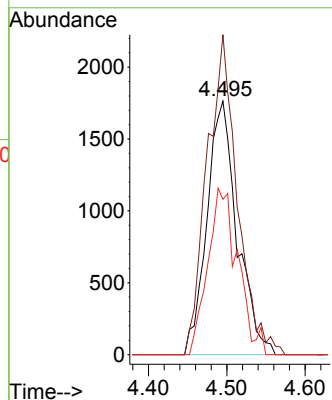
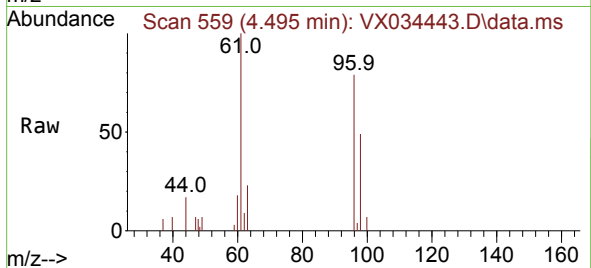
Tgt Ion: 96 Resp: 4730

Ion Ratio Lower Upper

96 100

61 126.8 0.0 300.4

98 65.3 0.0 129.0



#31

Cyclohexane

Concen: 1.114 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.091 min

Lab File: VX034443.D

Acq: 13 Mar 2023 19:20

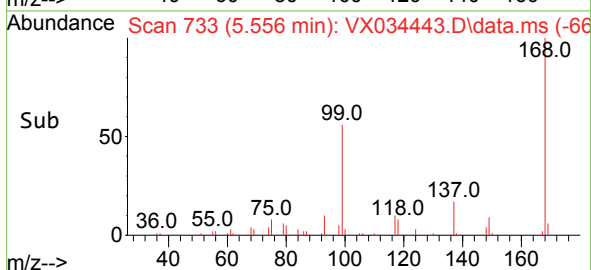
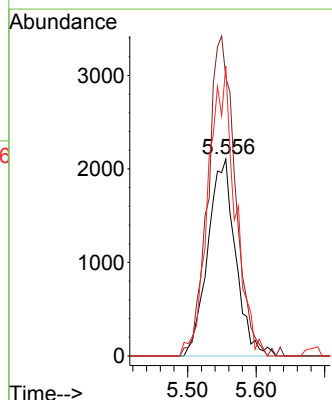
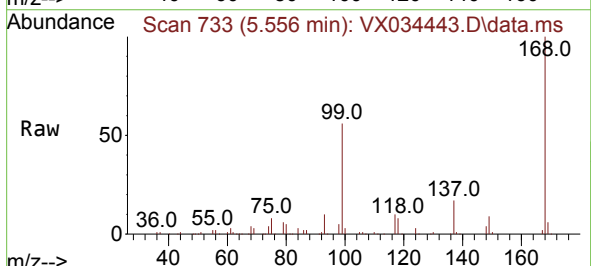
Tgt Ion: 56 Resp: 5924

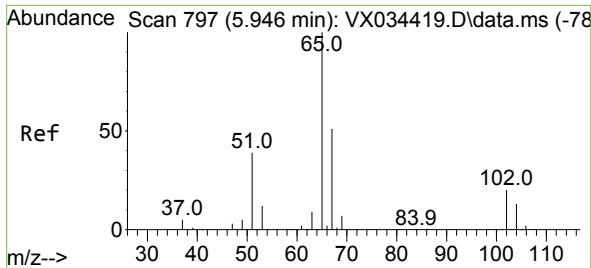
Ion Ratio Lower Upper

56 100

69 141.6 23.7 35.5#

84 147.2 68.5 102.7#

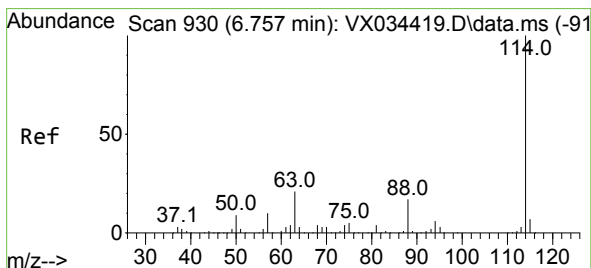
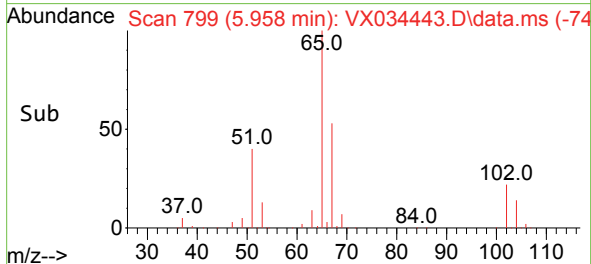
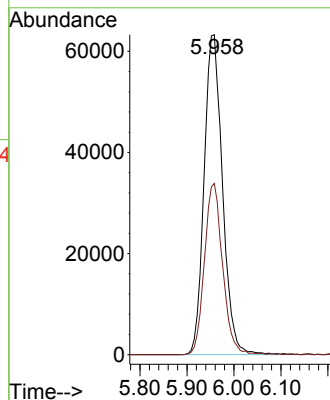
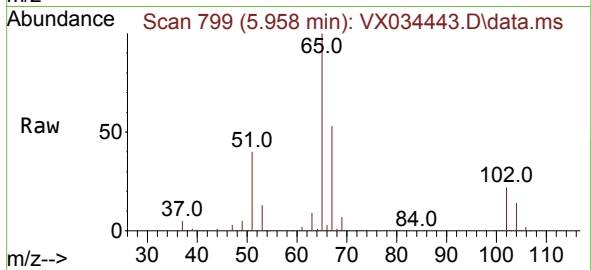




#33  
1,2-Dichloroethane-d4  
Concen: 45.358 ug/l  
RT: 5.958 min Scan# 797  
Delta R.T. 0.012 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

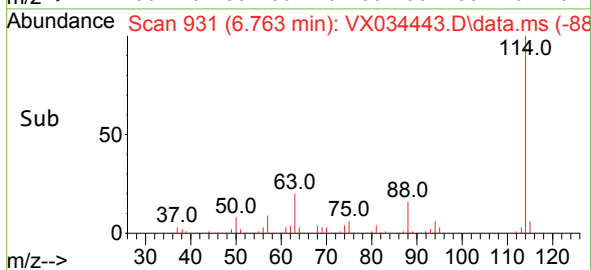
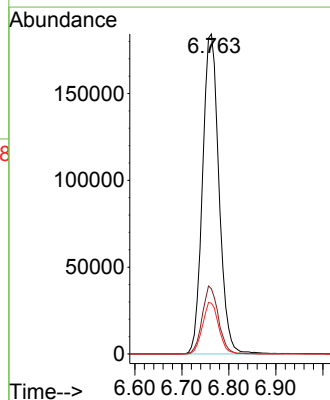
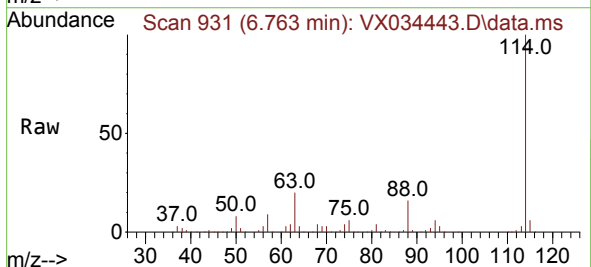
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 65 Resp: 172021  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 104.0

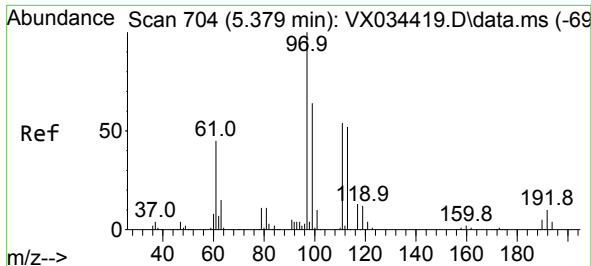


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. 0.006 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Tgt Ion: 114 Resp: 446741  
Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 42.2  
88 15.8 0.0 33.2







#35

Dibromofluoromethane

Concen: 47.267 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX034443.D

Acq: 13 Mar 2023 19:20

Instrument :

MSVOA\_X

ClientSampleId :

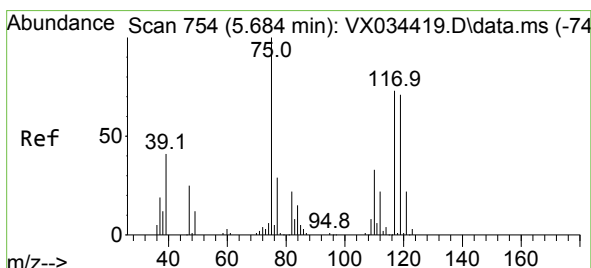
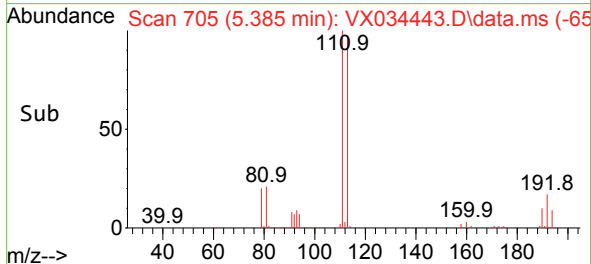
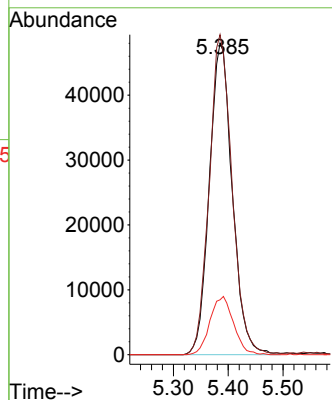
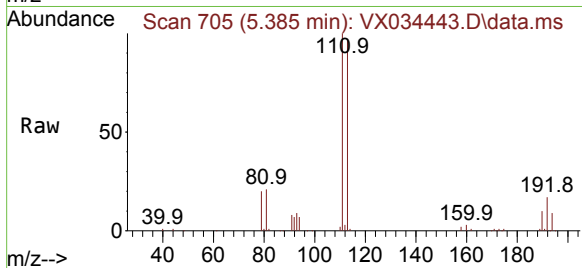
Tgt Ion:113 Resp: 139420

Ion Ratio Lower Upper

113 100

111 102.5 83.7 125.5

192 19.2 15.4 23.2



#36

1,1-Dichloropropene

Concen: 4.512 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.134 min

Lab File: VX034443.D

Acq: 13 Mar 2023 19:20

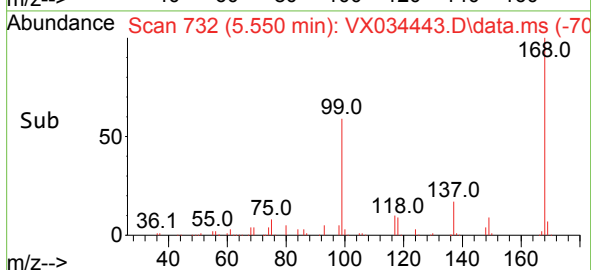
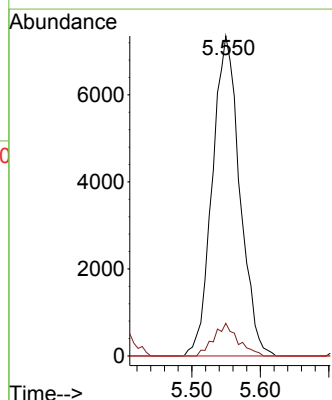
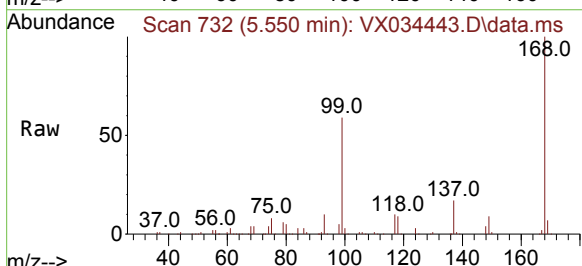
Tgt Ion: 75 Resp: 20440

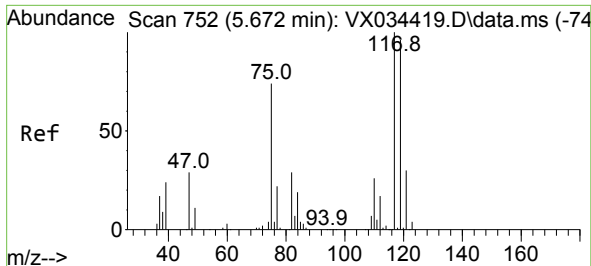
Ion Ratio Lower Upper

75 100

110 9.0 17.5 52.5#

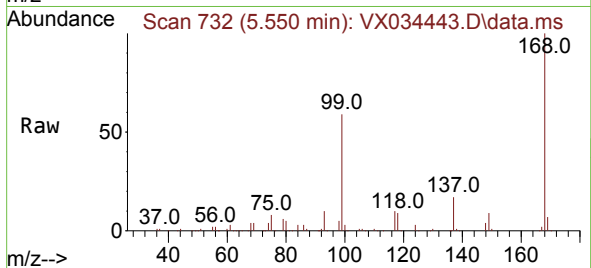
77 0.0 24.3 36.5#



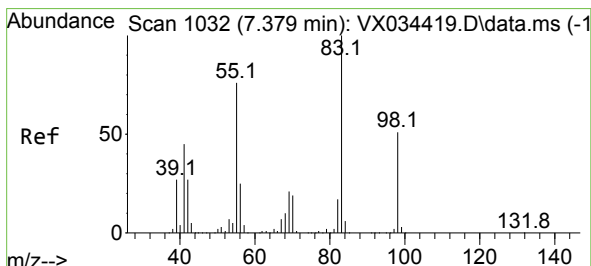
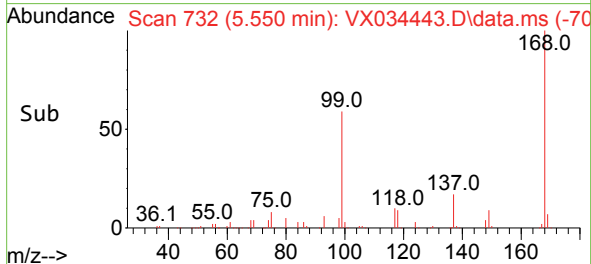
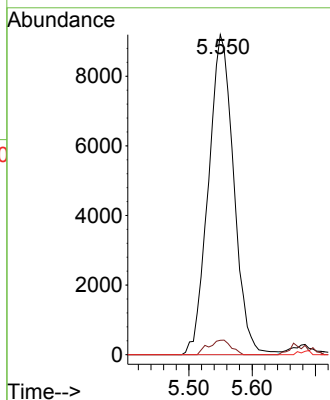


#38  
Carbon Tetrachloride  
Concen: 5.674 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Instrument :  
MSVOA\_X  
ClientSampleId :

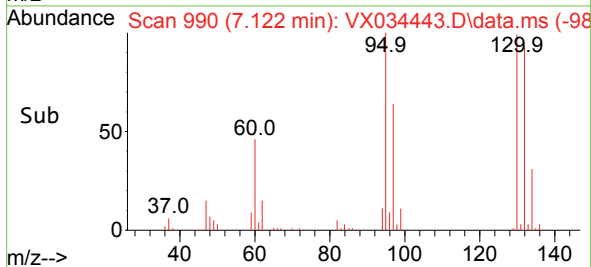
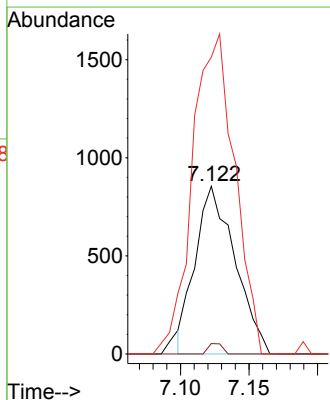
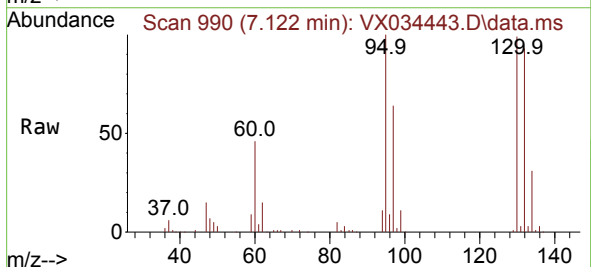


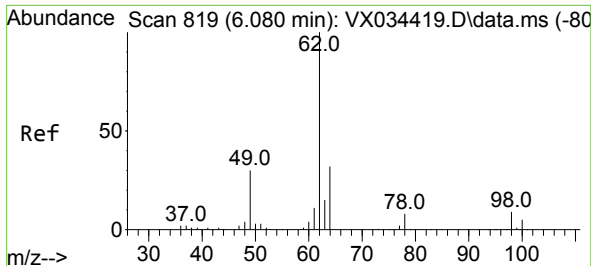
Tgt Ion:117 Resp: 25571  
Ion Ratio Lower Upper  
117 100  
119 4.5 76.6 114.8#  
121 0.0 23.8 35.6#



#39  
Methylcyclohexane  
Concen: 0.318 ug/l  
RT: 7.122 min Scan# 990  
Delta R.T. -0.256 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Tgt Ion: 83 Resp: 1726  
Ion Ratio Lower Upper  
83 100  
55 6.2 60.5 90.7#  
98 177.0 40.4 60.6#





#42

1,2-Dichloroethane

Concen: 0.228 ug/l

RT: 6.092 min Scan# 819

Delta R.T. 0.012 min

Lab File: VX034443.D

Acq: 13 Mar 2023 19:20

Instrument :

MSVOA\_X

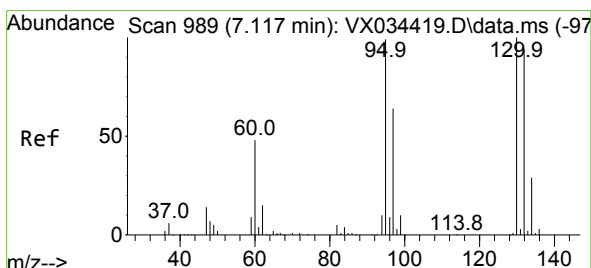
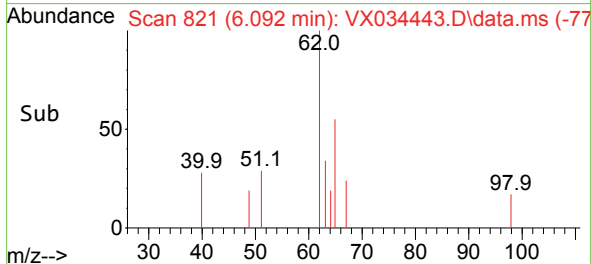
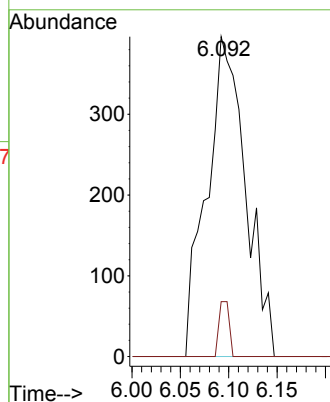
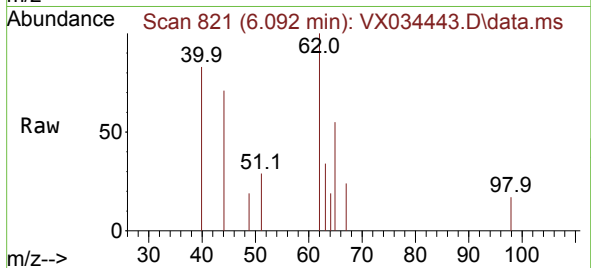
ClientSampleId :

Tgt Ion: 62 Resp: 1110

Ion Ratio Lower Upper

62 100

98 4.5 0.0 18.0



#44

Trichloroethene

Concen: 39.570 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.012 min

Lab File: VX034443.D

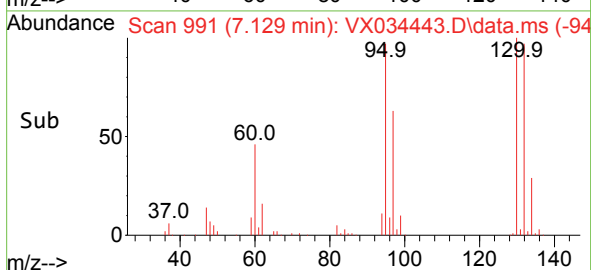
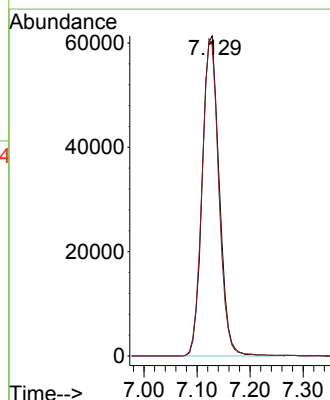
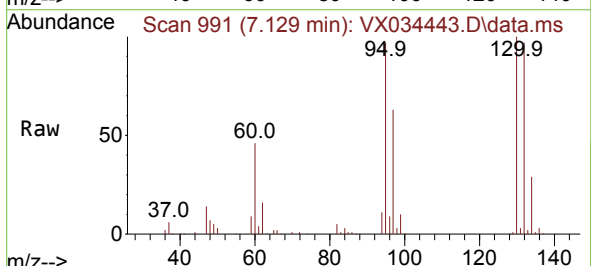
Acq: 13 Mar 2023 19:20

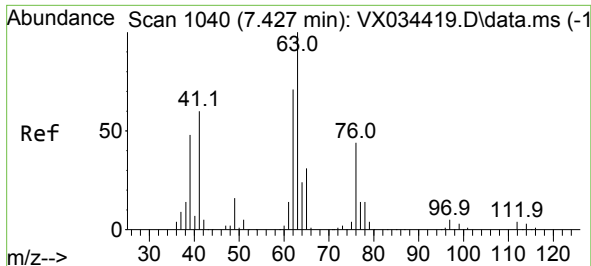
Tgt Ion:130 Resp: 136260

Ion Ratio Lower Upper

130 100

95 97.2 0.0 198.4

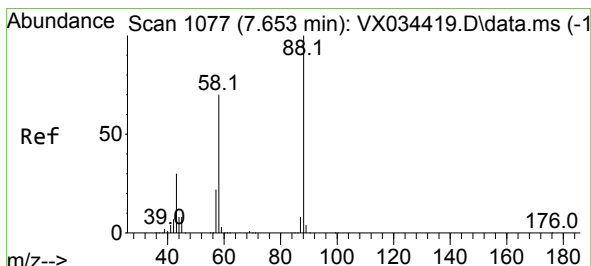
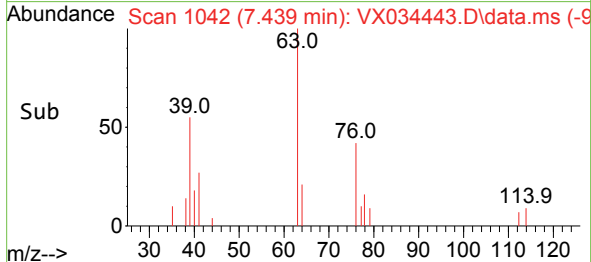
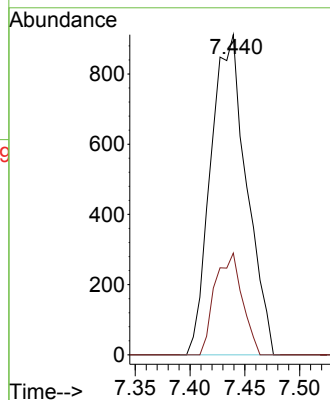
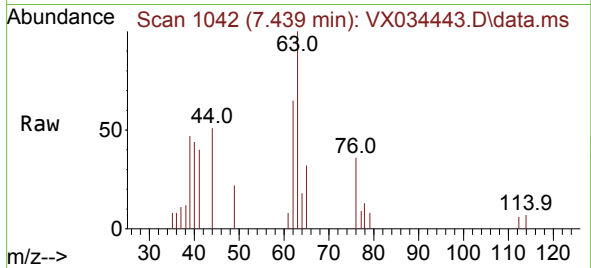




#45  
1,2-Dichloropropane  
Concen: 0.599 ug/l  
RT: 7.439 min Scan# 1042  
Delta R.T. 0.012 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

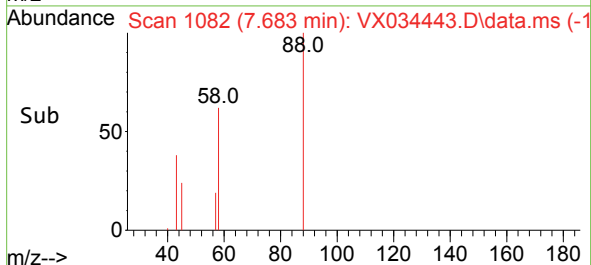
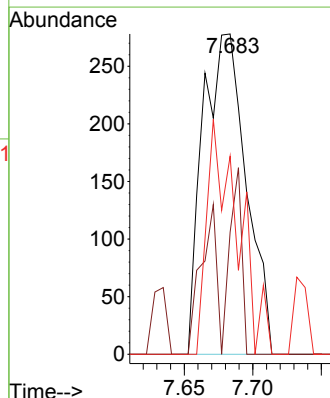
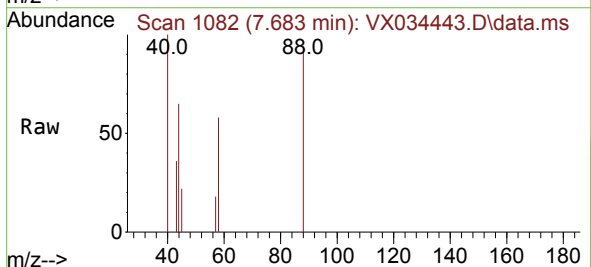
Instrument :  
MSVOA\_X  
ClientSampleId :

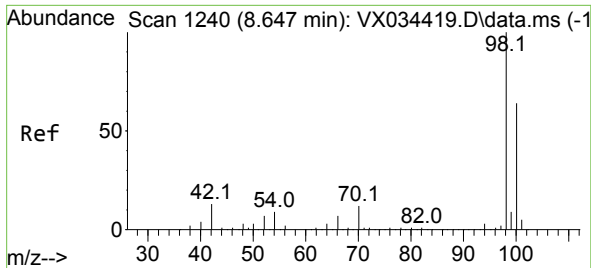
Tgt Ion: 63 Resp: 2073  
Ion Ratio Lower Upper  
63 100  
65 31.8 24.6 37.0



#49  
1,4-Dioxane  
Concen: 7.226 ug/l  
RT: 7.683 min Scan# 1082  
Delta R.T. 0.030 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Tgt Ion: 88 Resp: 612  
Ion Ratio Lower Upper  
88 100  
43 16.0 27.7 41.5#  
58 0.0 56.8 85.2#

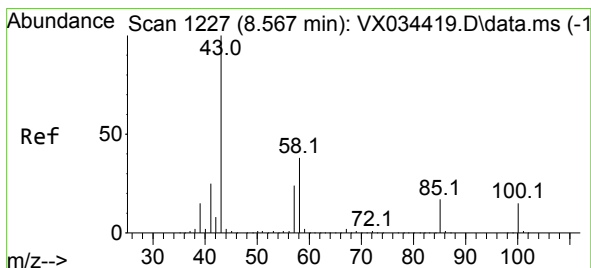
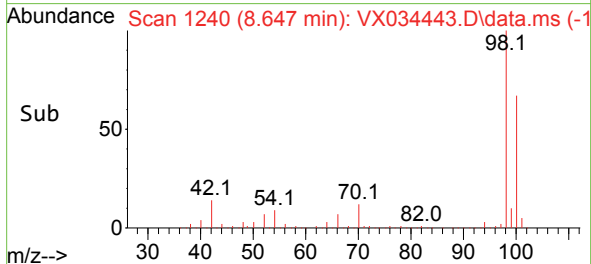
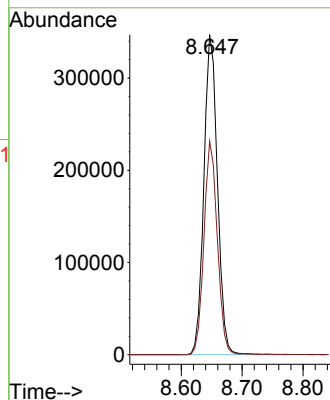
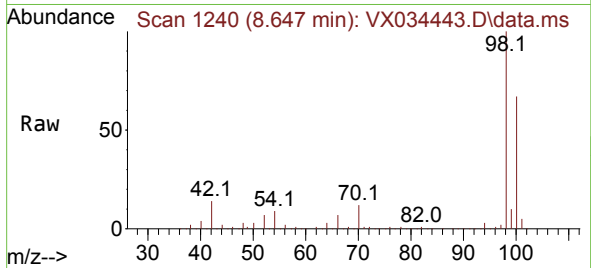




#50  
Toluene-d8  
Concen: 48.787 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

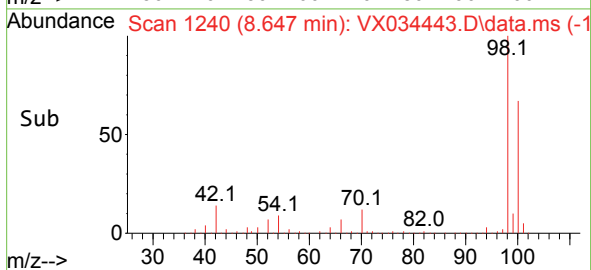
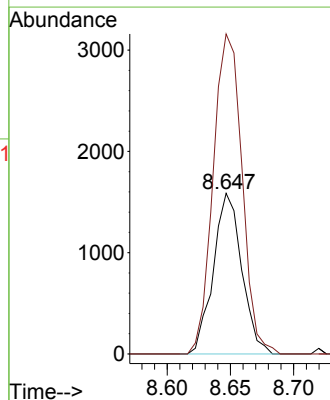
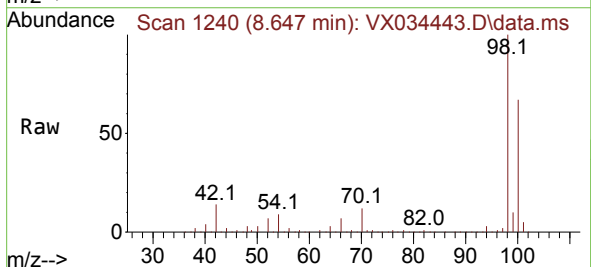
Instrument :  
MSVOA\_X  
ClientSampleId :

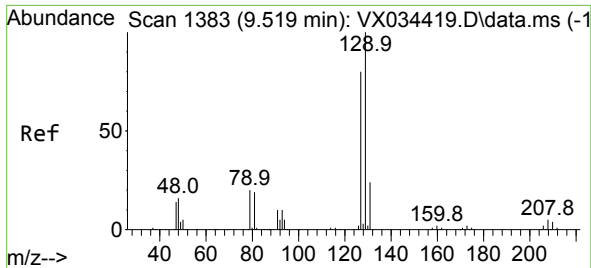
Tgt Ion: 98 Resp: 537198  
Ion Ratio Lower Upper  
98 100  
100 66.0 52.5 78.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.510 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.079 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Tgt Ion: 43 Resp: 2479  
Ion Ratio Lower Upper  
43 100  
58 202.1 30.6 46.0#

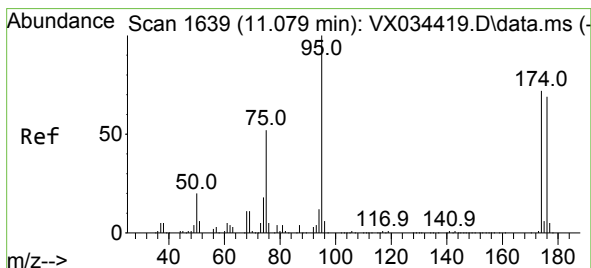
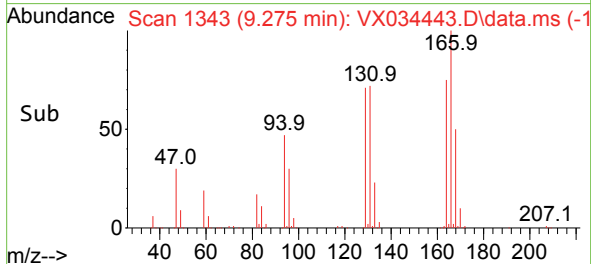
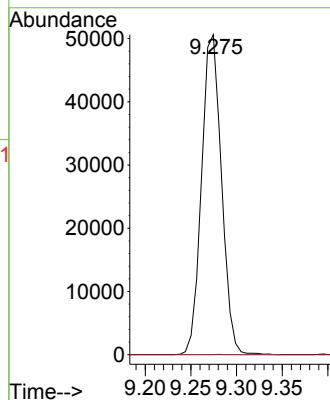
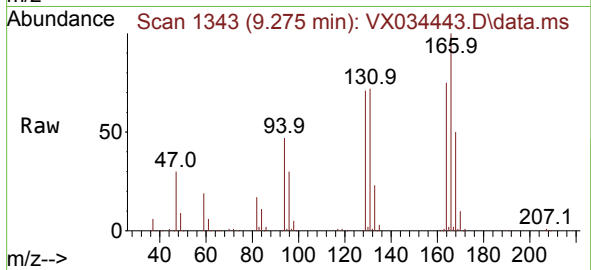




#60  
Dibromochloromethane  
Concen: 22.458 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

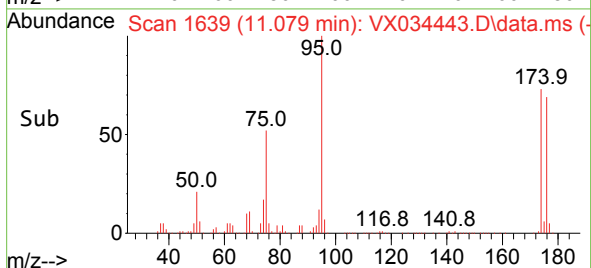
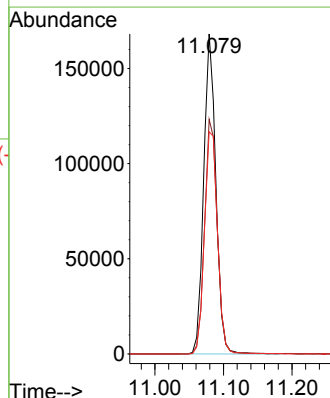
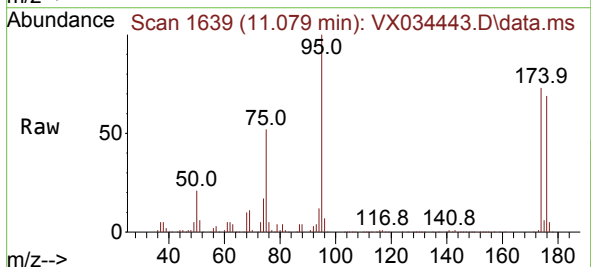
Instrument :  
MSVOA\_X  
ClientSampleId :

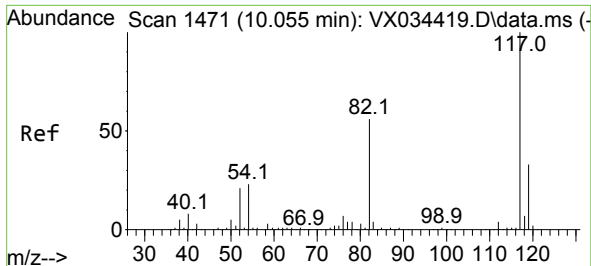
Tgt Ion:129 Resp: 76700  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 117.0#



#62  
4-Bromofluorobenzene  
Concen: 46.614 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

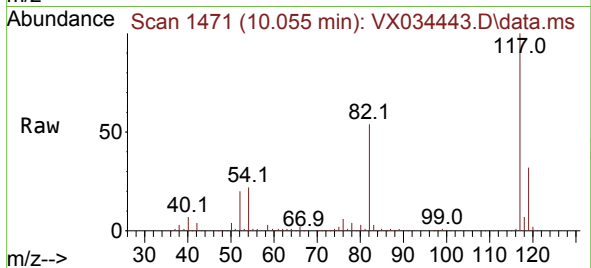
Tgt Ion: 95 Resp: 207319  
Ion Ratio Lower Upper  
95 100  
174 76.6 0.0 147.4  
176 74.8 0.0 140.6



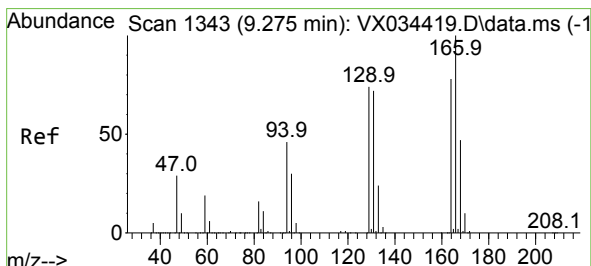
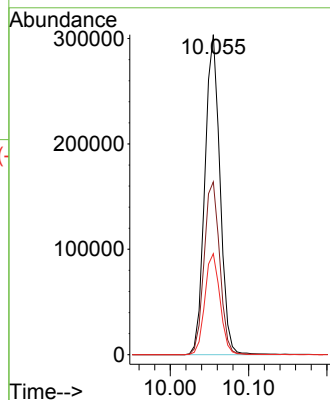
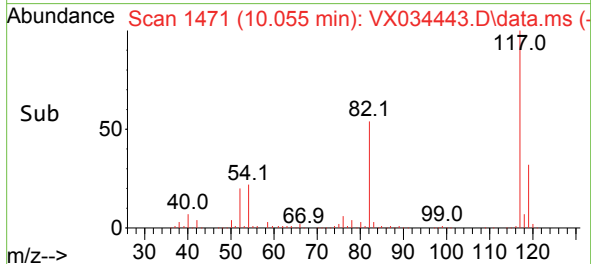


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

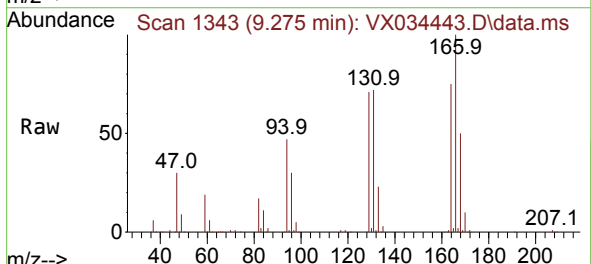
Instrument :  
MSVOA\_X  
ClientSampleId :



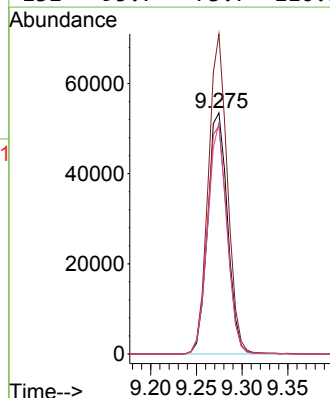
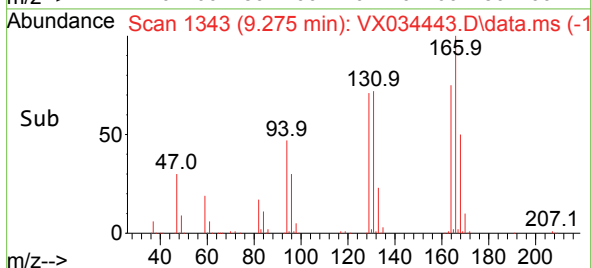
Tgt Ion:117 Resp: 406232  
Ion Ratio Lower Upper  
117 100  
82 54.0 45.0 67.4  
119 31.6 26.0 39.0

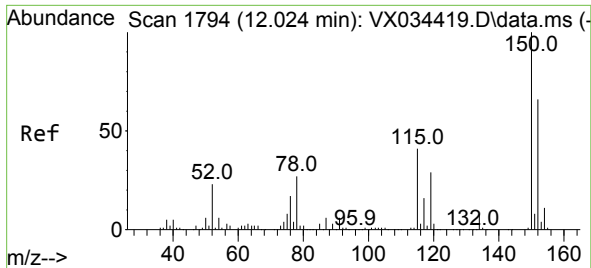


#64  
Tetrachloroethene  
Concen: 29.504 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20



Tgt Ion:164 Resp: 80510  
Ion Ratio Lower Upper  
164 100  
166 132.7 102.7 154.1  
129 94.6 75.6 113.4  
131 95.7 73.7 110.5

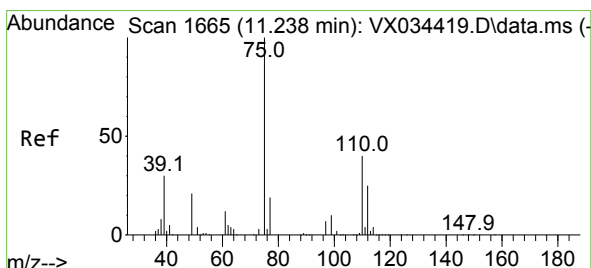
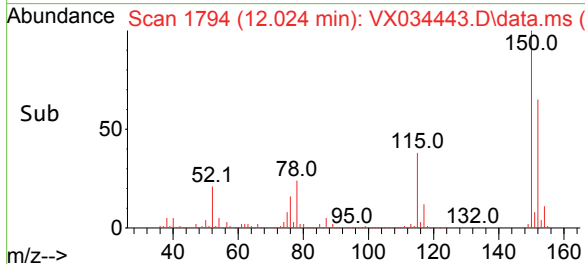
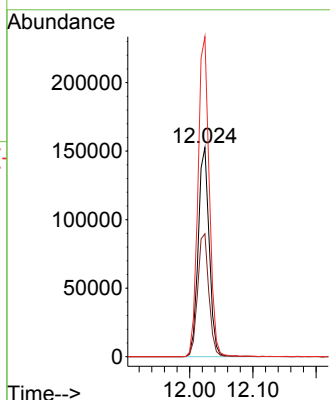
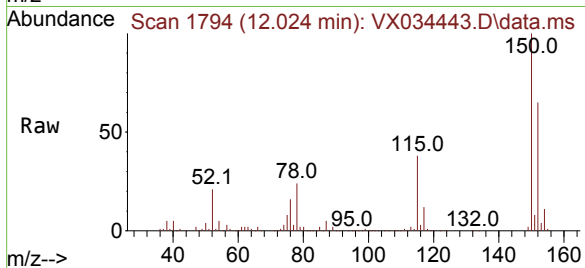




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX034443.D  
 Acq: 13 Mar 2023 19:20

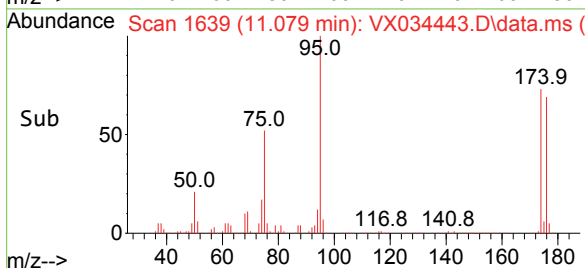
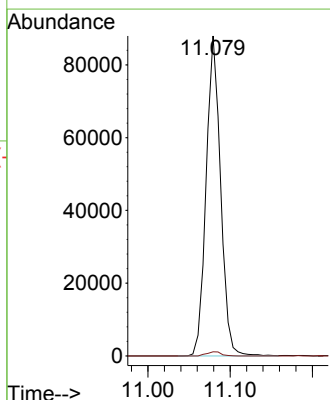
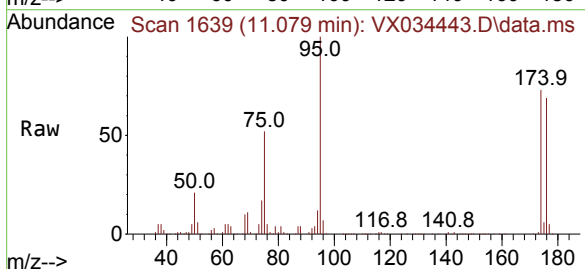
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion:152 Resp: 185753  
 Ion Ratio Lower Upper  
 152 100  
 115 59.7 45.0 135.0  
 150 156.7 0.0 352.4

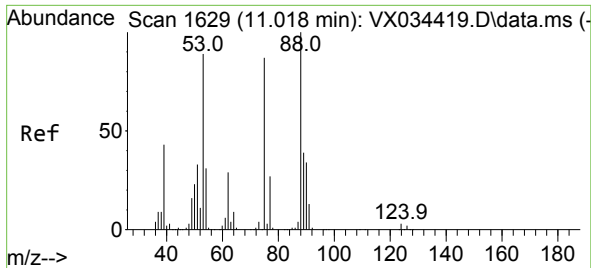


#76  
 1,2,3-Trichloropropane  
 Concen: 25.177 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX034443.D  
 Acq: 13 Mar 2023 19:20

Tgt Ion: 75 Resp: 107382  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 21.6 64.8#

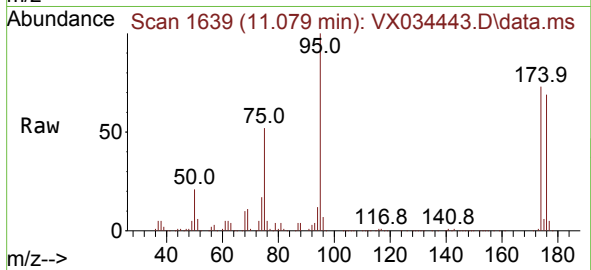






#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.111 ug/l  
RT: 11.079 min Scan# 10  
Delta R.T. 0.061 min  
Lab File: VX034443.D  
Acq: 13 Mar 2023 19:20

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 107382  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.6 124.0#  
89 0.0 36.9 55.3#

