

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121821\  
 Data File : VX025894.D  
 Acq On : 17 Dec 2021 18:38  
 Operator : JC/MD  
 Sample : PB141495ZHE#02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 19 02:34:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 14 07:02:11 2021  
 Response via : Initial Calibration

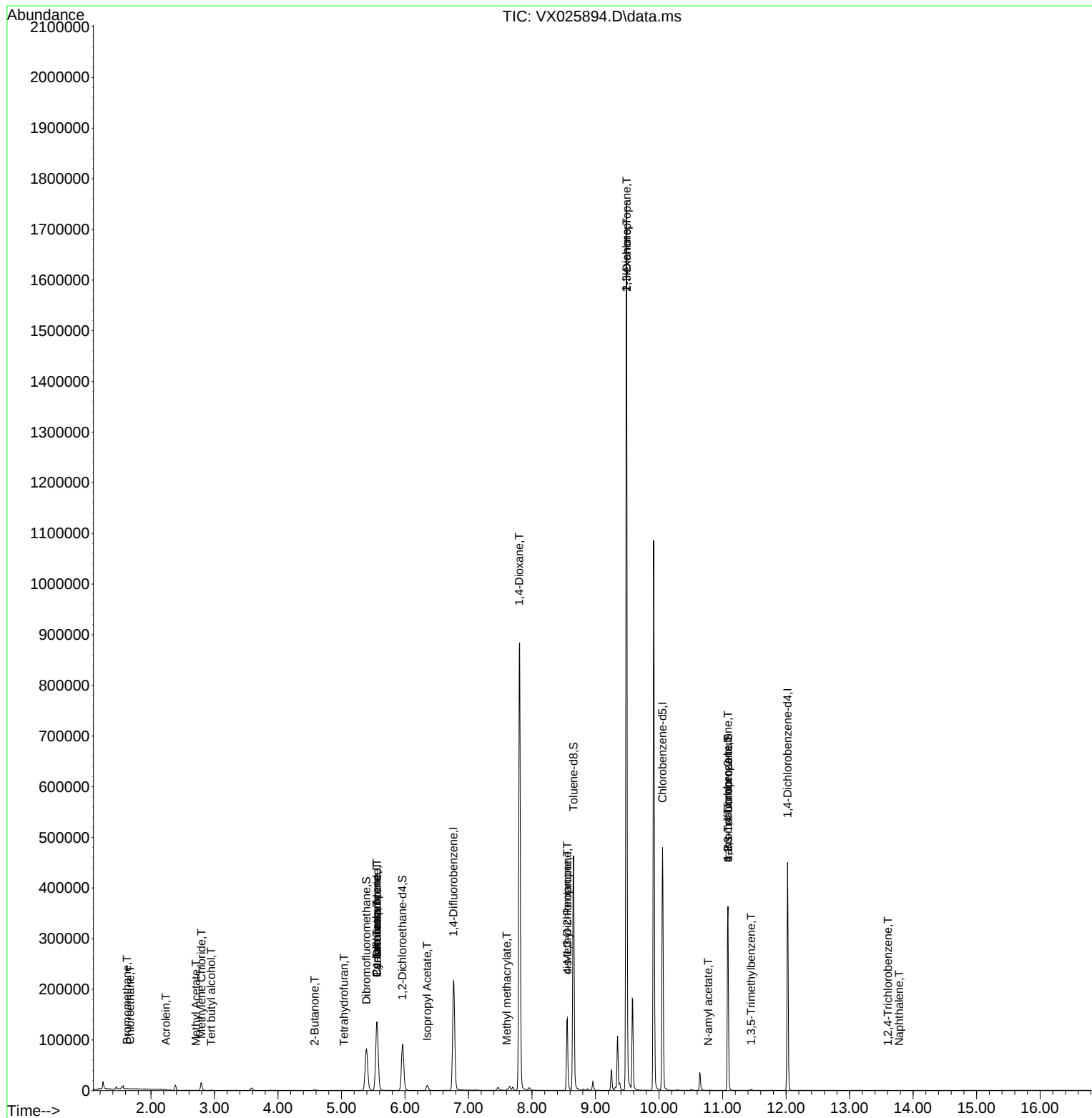
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 122580              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 219135              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 214778              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 88187               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 89267               | 50.613    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 101.220% |           |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 70684               | 46.251    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 92.500%  |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 273285              | 49.079    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 98.160%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 95163               | 44.990    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 89.980%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 1.624          | 94   | 378                 | 0.349     | ug/l   | 87       |
| 6) Chloroethane               | 1.672          | 64   | 265                 | 0.241     | ug/l   | 93       |
| 11) Tert butyl alcohol        | 2.947          | 59   | 497                 | 1.405     | ug/l # | 73       |
| 13) Acrolein                  | 2.233          | 56   | 104                 | 0.430     | ug/l # | 81       |
| 16) Acetone                   | 2.380          | 43   | 11060               | Below Cal |        | 100      |
| 18) Methyl Acetate            | 2.709          | 43   | 771                 | 0.287     | ug/l # | 51       |
| 20) Methylene Chloride        | 2.794          | 84   | 6485                | 1.975     | ug/l   | 97       |
| 25) 2-Butanone                | 4.574          | 43   | 2039                | 1.719     | ug/l # | 89       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 355                 | 0.471     | ug/l # | 48       |
| 31) Cyclohexane               | 5.556          | 56   | 3078                | 1.435     | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 10496               | 5.064     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 13142               | 5.450     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.348          | 43   | 13223               | 3.564     | ug/l # | 94       |
| 48) Methyl methacrylate       | 7.604          | 41   | 4154                | 2.378     | ug/l # | 12       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 93                  | 2.438     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 50588               | 20.831    | ug/l # | 49       |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 22588               | 9.058     | ug/l # | 66       |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 15154               | 5.469     | ug/l # | 42       |
| 59) 2-Hexanone                | 9.488          | 43   | 205212              | 111.528   | ug/l # | 51       |
| 74) N-amyl acetate            | 10.774         | 43   | 515                 | 0.200     | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 49392               | 24.445    | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 1196                | 0.225     | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 49392               | 75.787    | ug/l # | 10       |
| 93) 1,2,4-Trichlorobenzene    | 13.603         | 180  | 20                  | 3.381     | ug/l # | 13       |
| 95) Naphthalene               | 13.780         | 128  | 196                 | 2.442     | ug/l # | 69       |
| -----                         |                |      |                     |           |        |          |

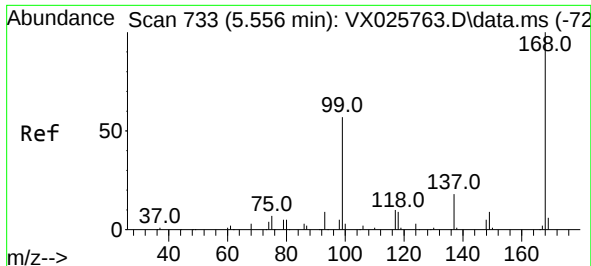
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121821\  
Data File : VX025894.D  
Acq On : 17 Dec 2021 18:38  
Operator : JC/MD  
Sample : PB141495ZHE#02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

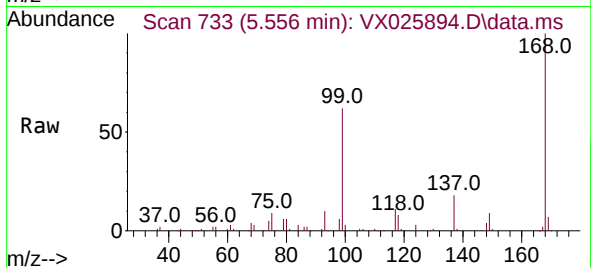
Quant Time: Dec 19 02:34:19 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121321W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 14 07:02:11 2021  
Response via : Initial Calibration



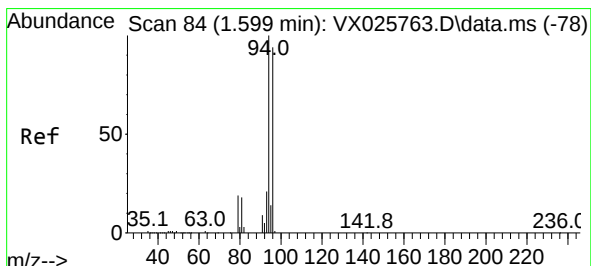
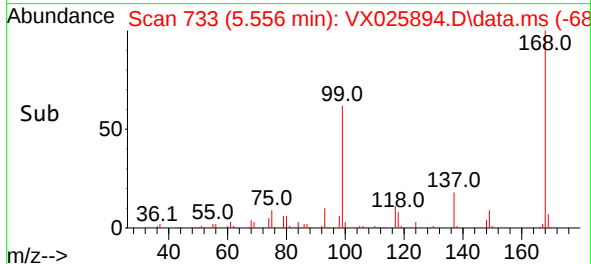
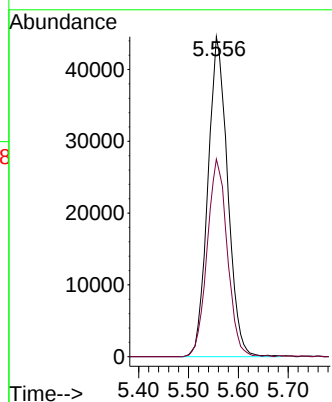


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Instrument :  
MSVOA\_X  
ClientSampleId :

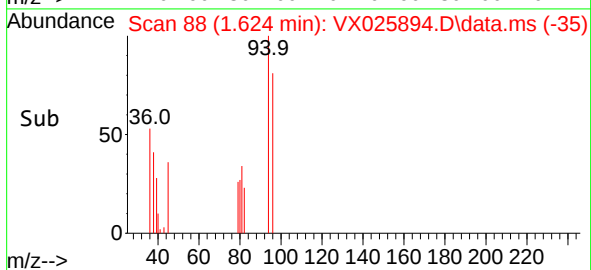
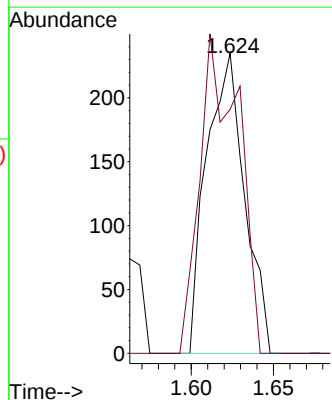
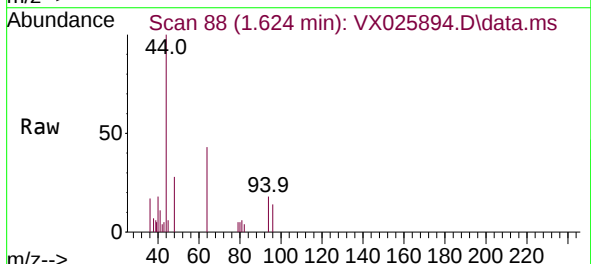


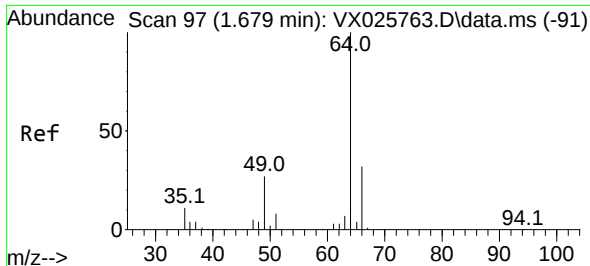
Tgt Ion:168 Resp: 122580  
Ion Ratio Lower Upper  
168 100  
99 61.7 45.8 68.8



#5  
Bromomethane  
Concen: 0.349 ug/l  
RT: 1.624 min Scan# 88  
Delta R.T. 0.024 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 94 Resp: 378  
Ion Ratio Lower Upper  
94 100  
96 81.3 75.0 112.4

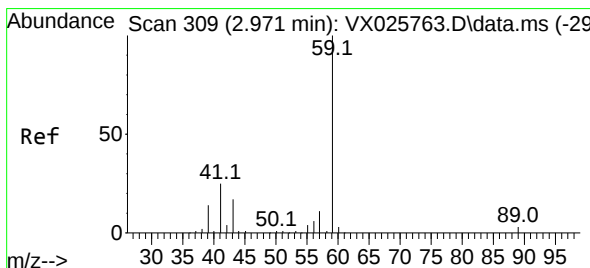
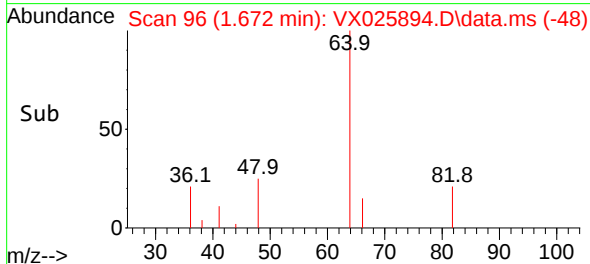
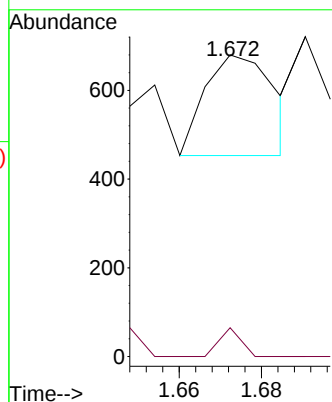
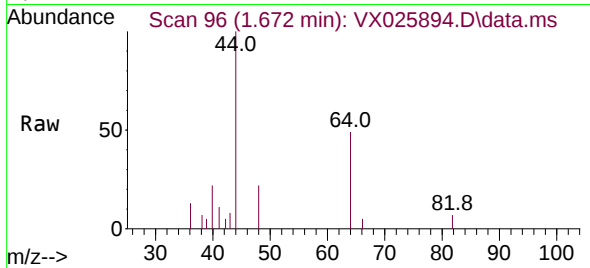




#6  
Chloroethane  
Concen: 0.241 ug/l  
RT: 1.672 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

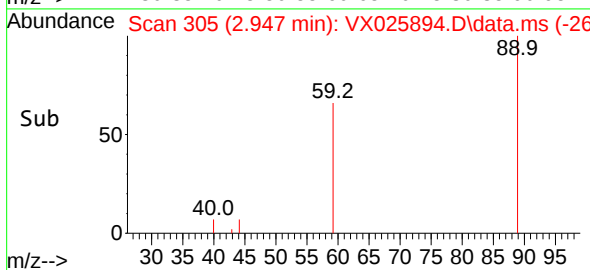
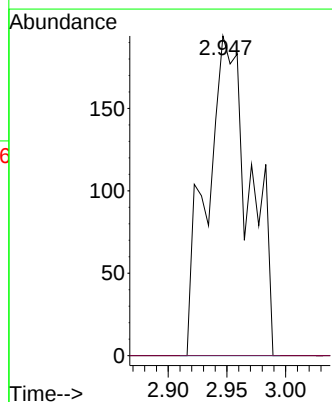
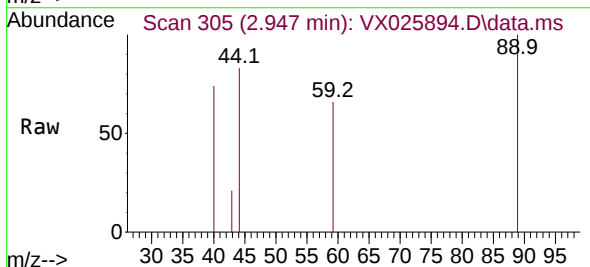
Instrument :  
MSVOA\_X  
ClientSampleId :

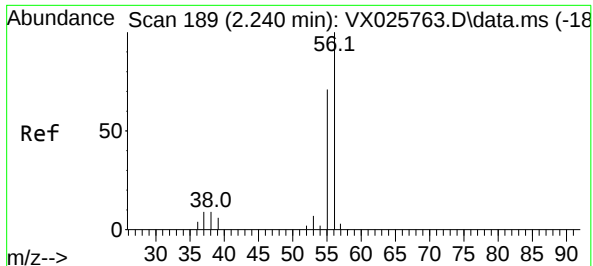
Tgt Ion: 64 Resp: 265  
Ion Ratio Lower Upper  
64 100  
66 28.6 25.9 38.9



#11  
Tert butyl alcohol  
Concen: 1.405 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.025 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 59 Resp: 497  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

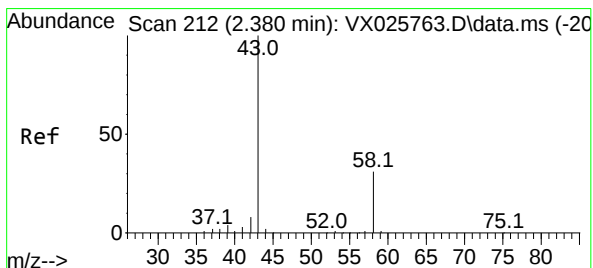
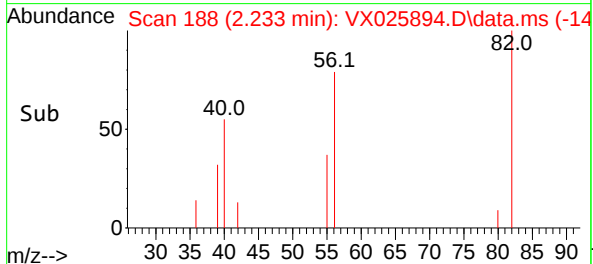
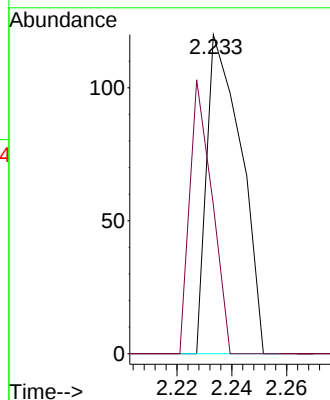
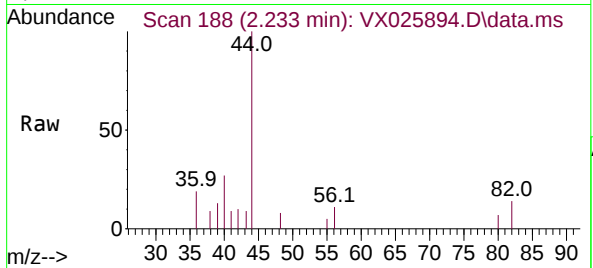




#13  
Acrolein  
Concen: 0.430 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

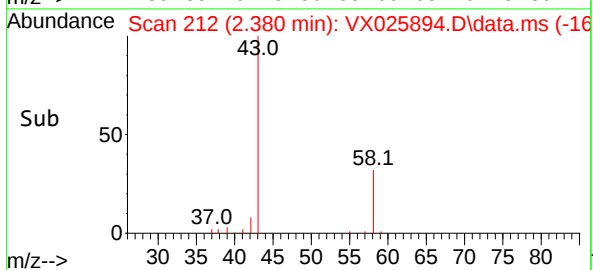
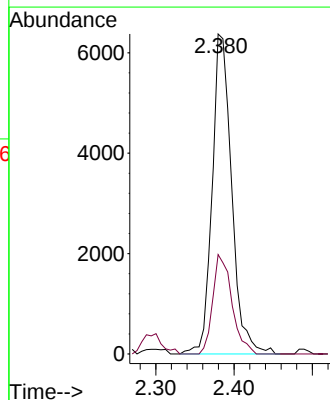
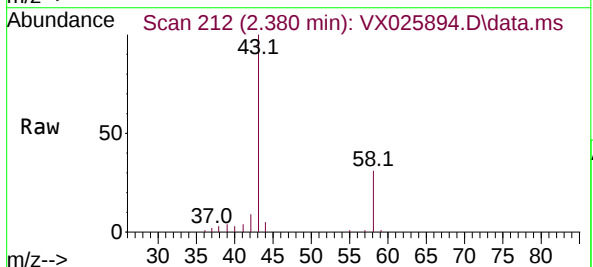
Instrument :  
MSVOA\_X  
ClientSampleId :

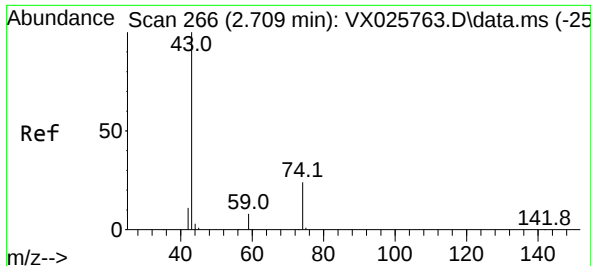
Tgt Ion: 56 Resp: 104  
Ion Ratio Lower Upper  
56 100  
55 55.8 57.4 86.2#



#16  
Acetone  
Concen: Below Cal  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 43 Resp: 11060  
Ion Ratio Lower Upper  
43 100  
58 31.1 24.8 37.2

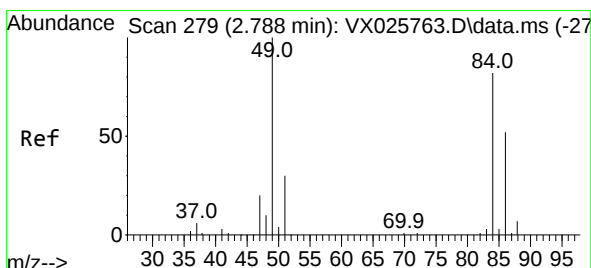
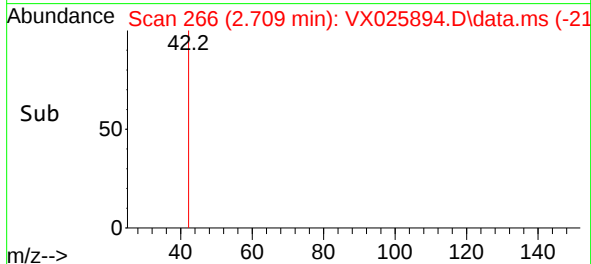
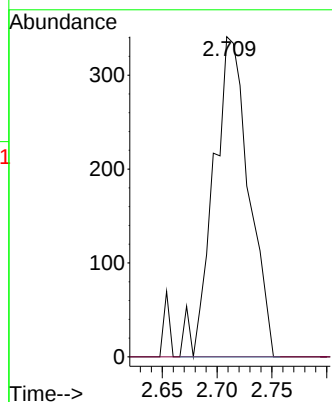
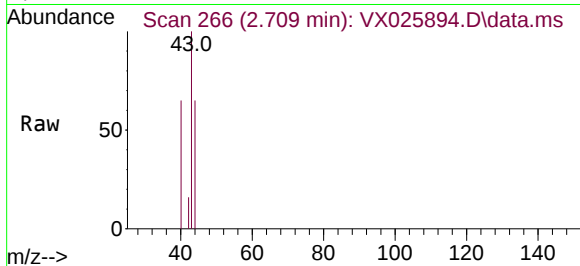




#18  
Methyl Acetate  
Concen: 0.287 ug/l  
RT: 2.709 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

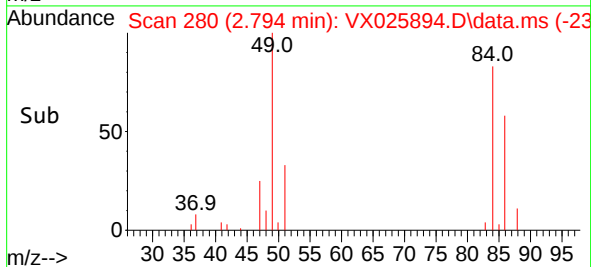
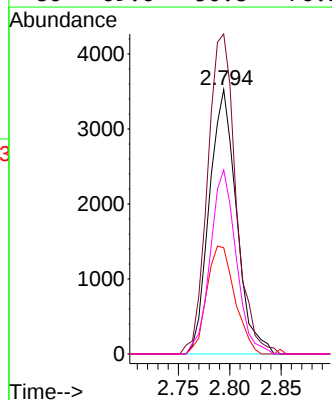
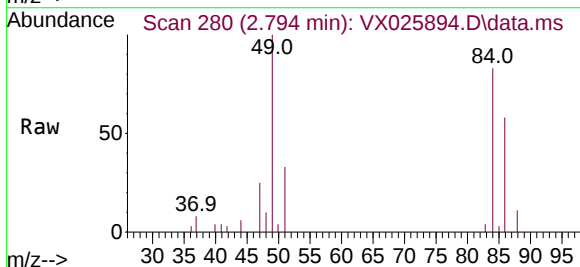
Instrument :  
MSVOA\_X  
ClientSampleId :

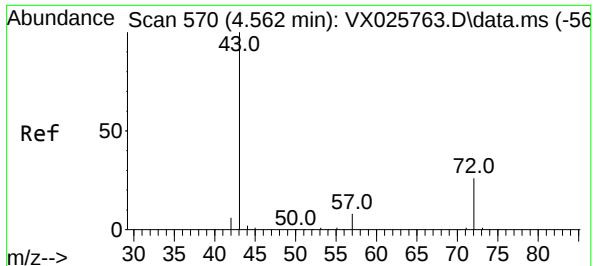
Tgt Ion: 43 Resp: 771  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.1 28.7#



#20  
Methylene Chloride  
Concen: 1.975 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 84 Resp: 6485  
Ion Ratio Lower Upper  
84 100  
49 121.0 97.1 145.7  
51 40.1 29.3 43.9  
86 69.6 50.8 76.2





#25

2-Butanone

Concen: 1.719 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX025894.D

Acq: 17 Dec 2021 18:38

Instrument :

MSVOA\_X

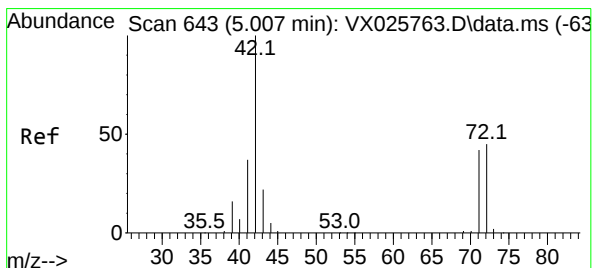
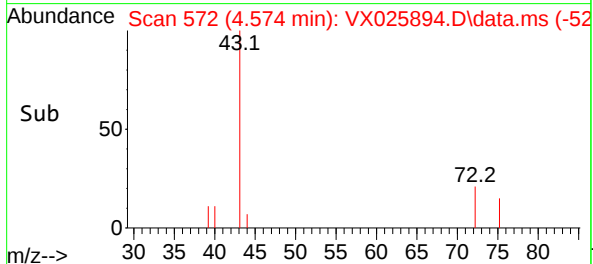
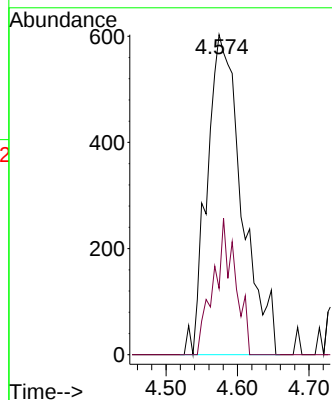
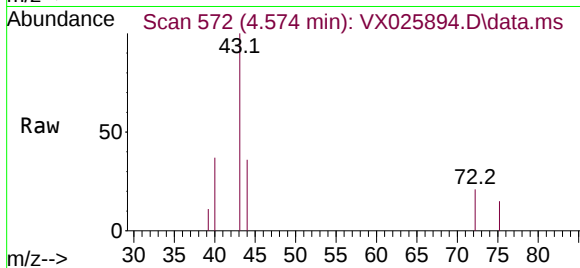
ClientSampleId :

Tgt Ion: 43 Resp: 2039

Ion Ratio Lower Upper

43 100

72 20.7 21.0 31.4#



#29

Tetrahydrofuran

Concen: 0.471 ug/l

RT: 5.038 min Scan# 648

Delta R.T. 0.030 min

Lab File: VX025894.D

Acq: 17 Dec 2021 18:38

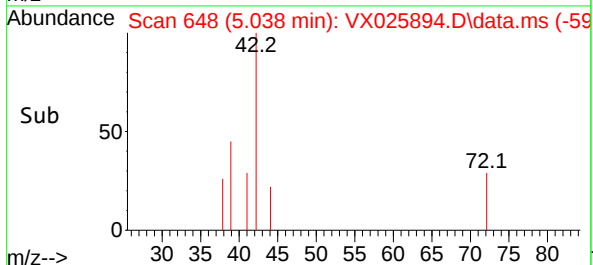
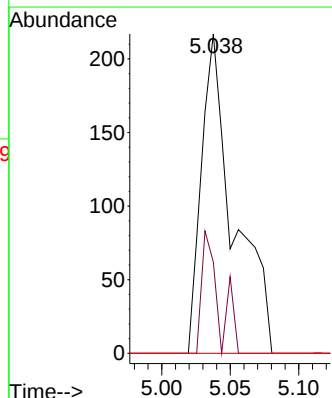
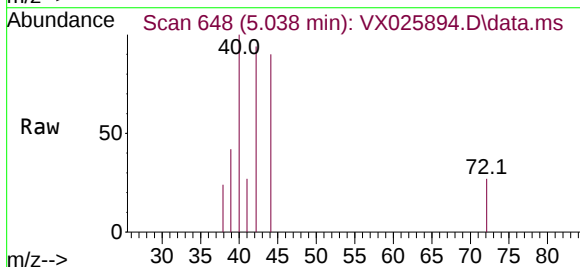
Tgt Ion: 42 Resp: 355

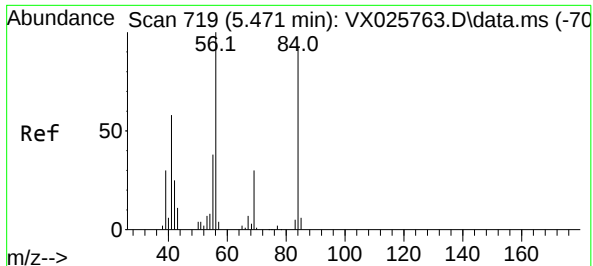
Ion Ratio Lower Upper

42 100

72 20.3 37.0 55.6#

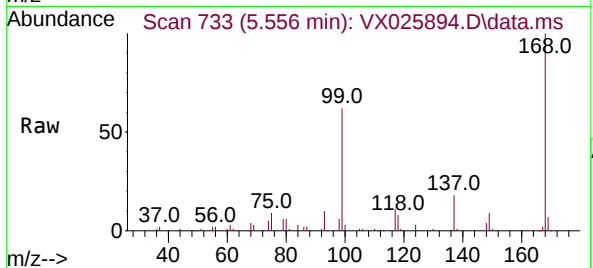
71 0.0 34.1 51.1#



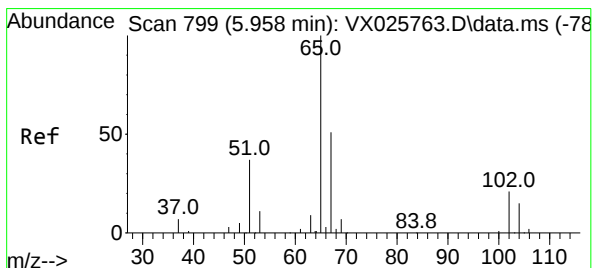
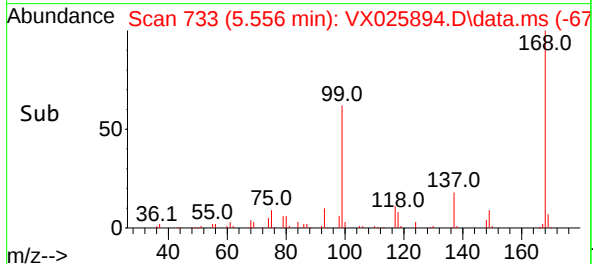
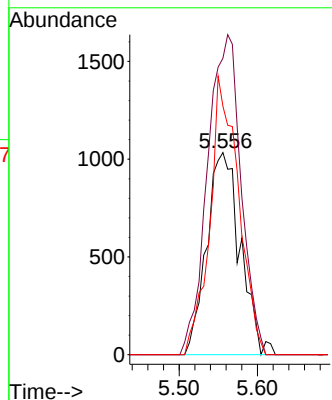


#31  
Cyclohexane  
Concen: 1.435 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Instrument :  
MSVOA\_X  
ClientSampleId :

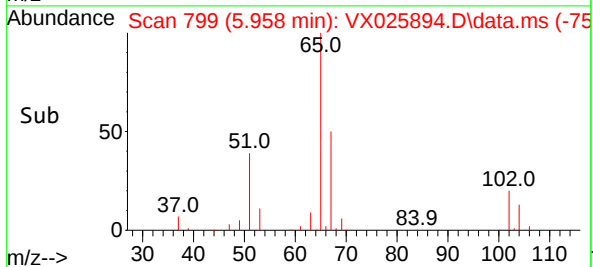
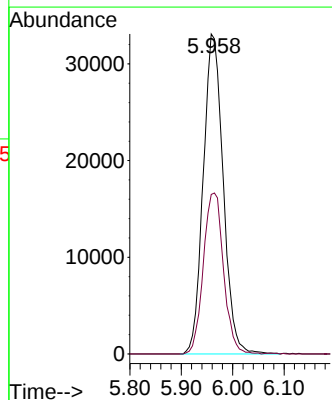
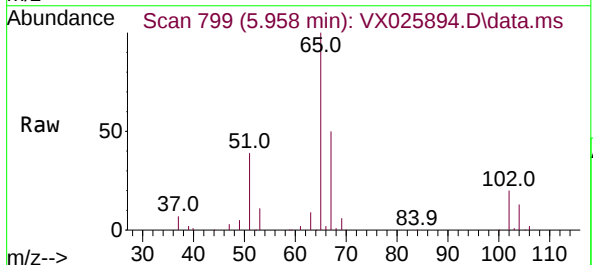


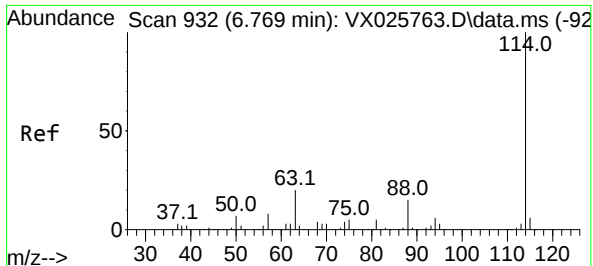
Tgt Ion: 56 Resp: 3078  
Ion Ratio Lower Upper  
56 100  
69 146.7 23.9 35.9#  
84 122.9 73.2 109.8#



#33  
1,2-Dichloroethane-d4  
Concen: 50.613 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 65 Resp: 89267  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 103.4

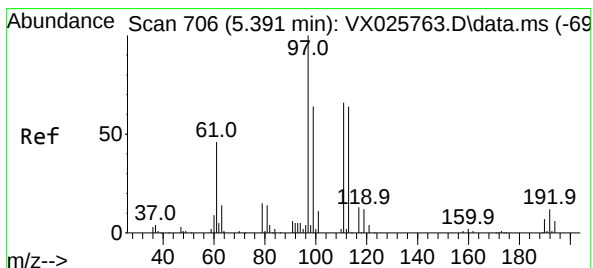
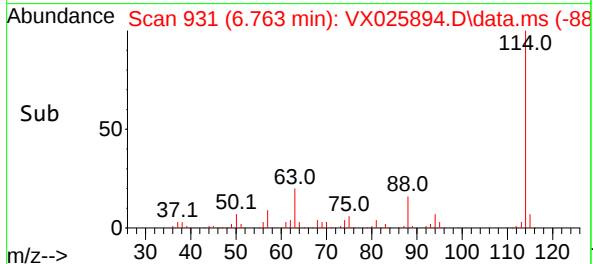
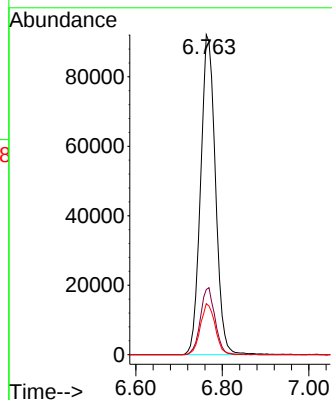
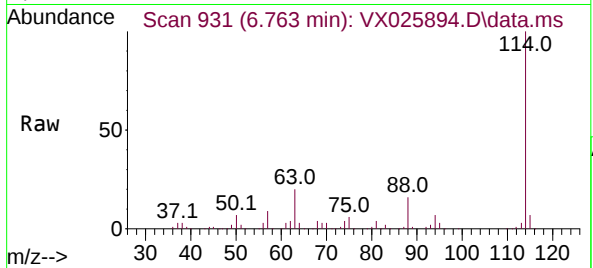




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 91  
 Delta R.T. -0.006 min  
 Lab File: VX025894.D  
 Acq: 17 Dec 2021 18:38

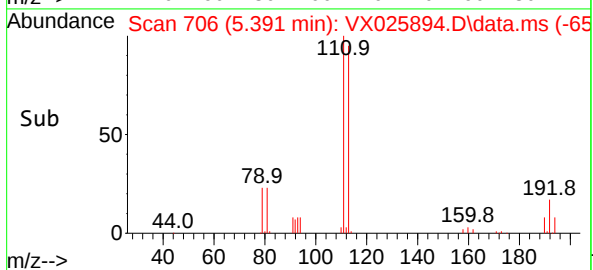
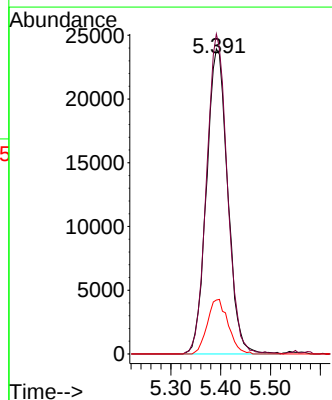
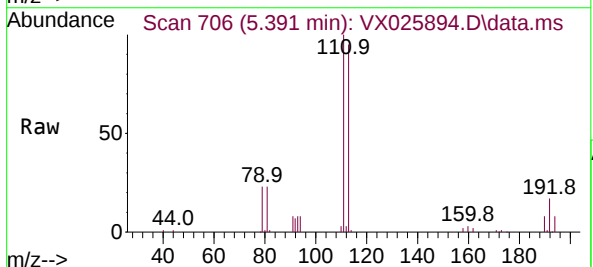
Instrument :  
 MSVOA\_X  
 ClientSampleId :

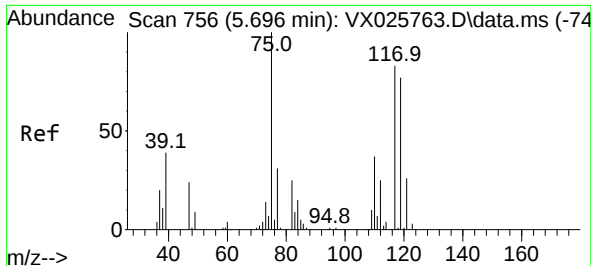
Tgt Ion:114 Resp: 219135  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 40.0  
 88 16.0 0.0 30.6



#35  
 Dibromofluoromethane  
 Concen: 46.251 ug/l  
 RT: 5.391 min Scan# 706  
 Delta R.T. -0.000 min  
 Lab File: VX025894.D  
 Acq: 17 Dec 2021 18:38

Tgt Ion:113 Resp: 70684  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 81.8 122.8  
 192 17.6 15.0 22.4





#36

1,1-Dichloropropene

Concen: 5.064 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX025894.D

Acq: 17 Dec 2021 18:38

Instrument :

MSVOA\_X

ClientSampleId :

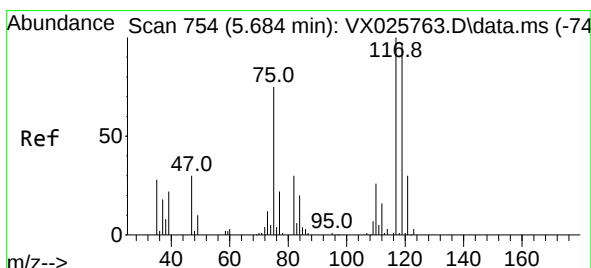
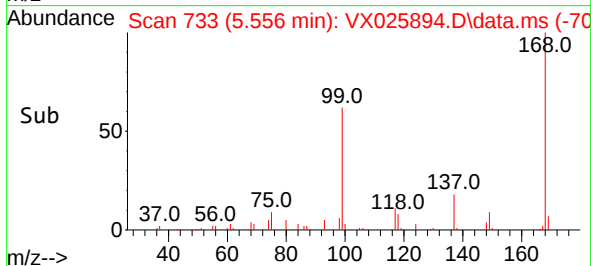
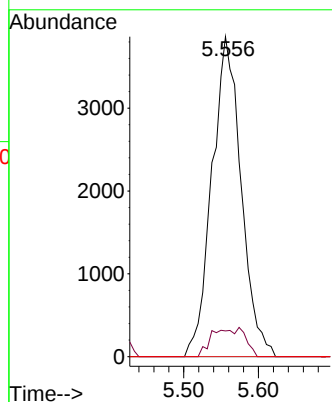
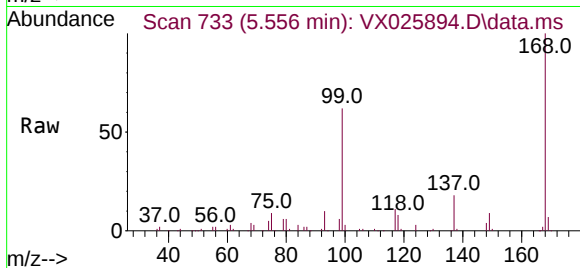
Tgt Ion: 75 Resp: 10496

Ion Ratio Lower Upper

75 100

110 10.2 18.2 54.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.450 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.128 min

Lab File: VX025894.D

Acq: 17 Dec 2021 18:38

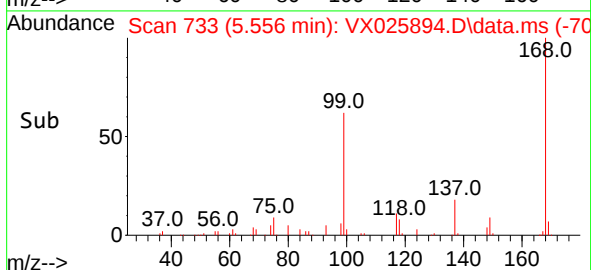
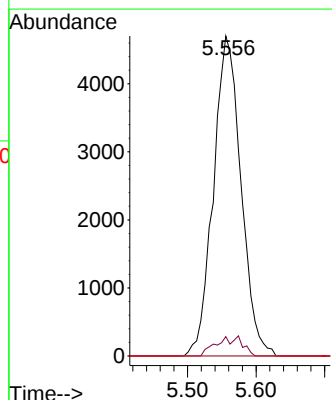
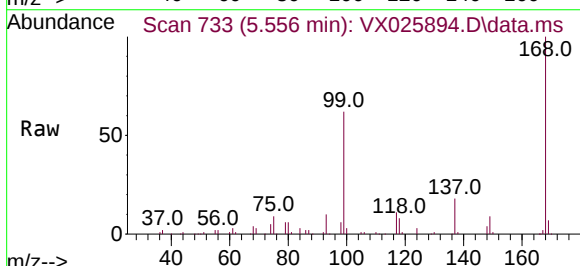
Tgt Ion: 117 Resp: 13142

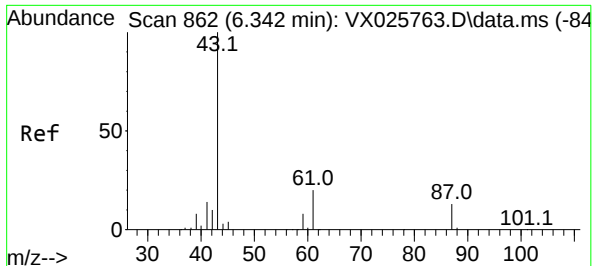
Ion Ratio Lower Upper

117 100

119 6.0 77.2 115.8#

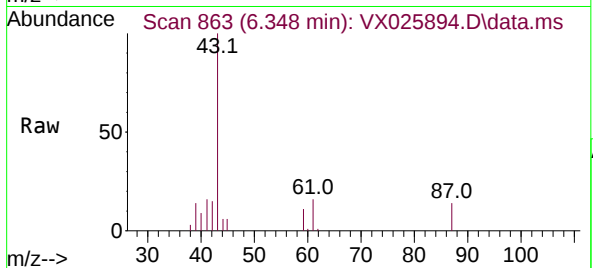
121 0.0 23.8 35.8#



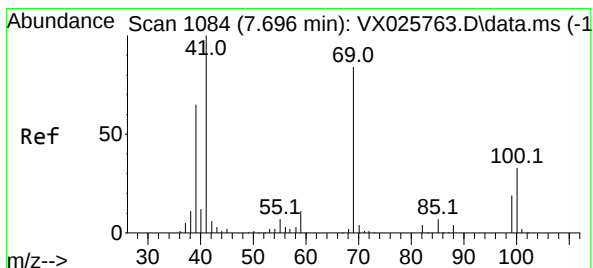
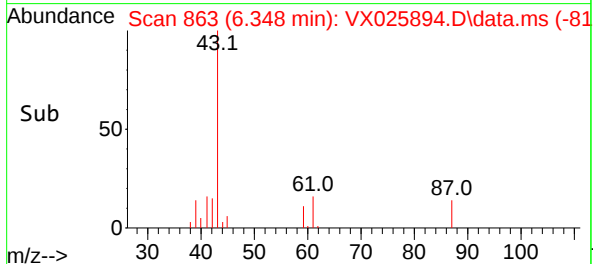
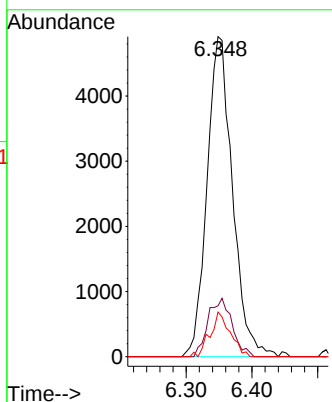


#43  
Isopropyl Acetate  
Concen: 3.564 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.006 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Instrument :  
MSVOA\_X  
ClientSampleId :

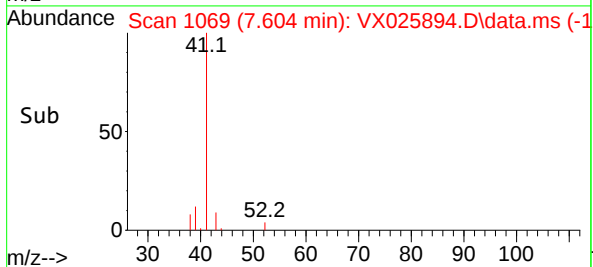
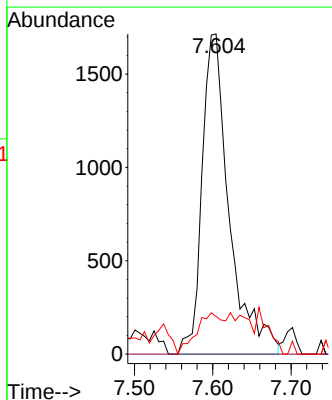
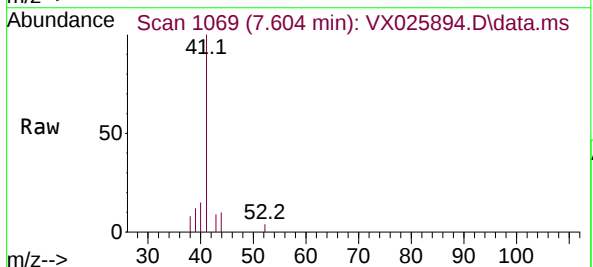


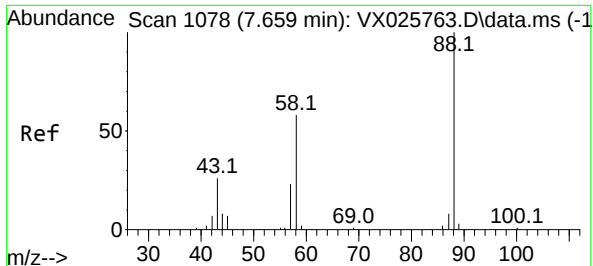
Tgt Ion: 43 Resp: 13223  
Ion Ratio Lower Upper  
43 100  
61 17.2 15.7 23.5  
87 11.0 11.2 16.8#



#48  
Methyl methacrylate  
Concen: 2.378 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.092 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 41 Resp: 4154  
Ion Ratio Lower Upper  
41 100  
69 0.0 67.3 100.9#  
39 0.0 50.2 75.2#





#49

1,4-Dioxane

Concen: 2.438 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX025894.D

Acq: 17 Dec 2021 18:38

Instrument :

MSVOA\_X

ClientSampleId :

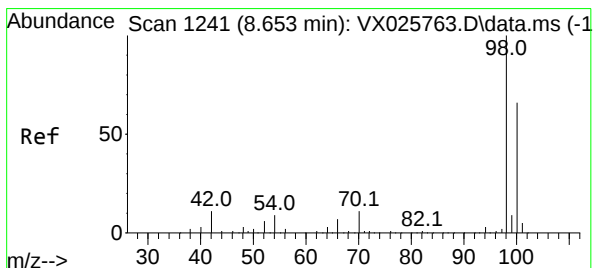
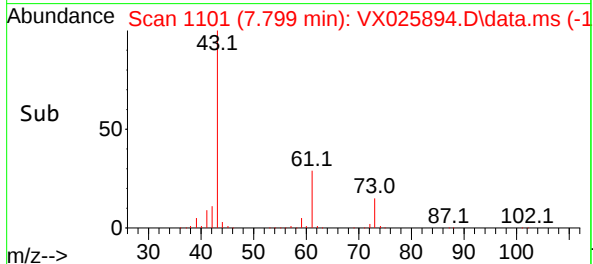
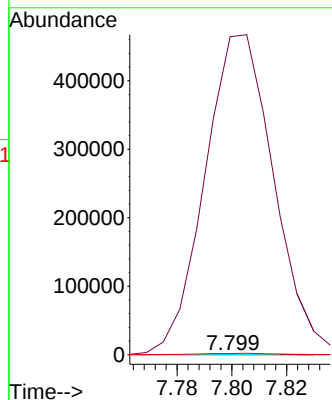
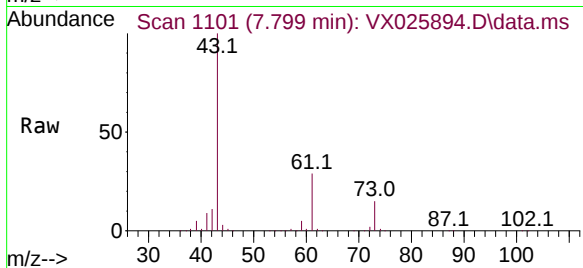
Tgt Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 890676.3 25.3 37.9#

58 4019.4 51.8 77.6#



#50

Toluene-d8

Concen: 49.079 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX025894.D

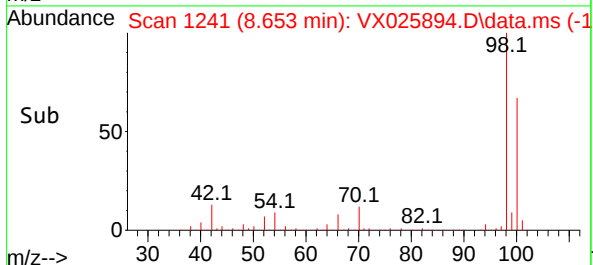
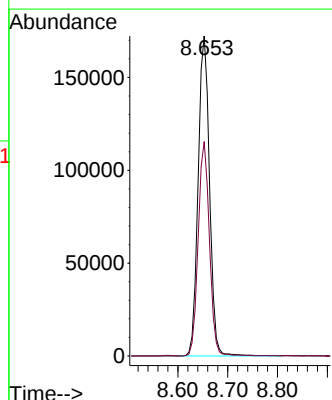
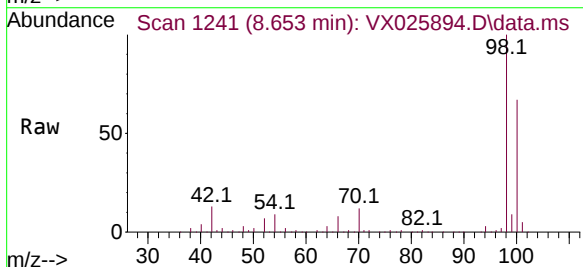
Acq: 17 Dec 2021 18:38

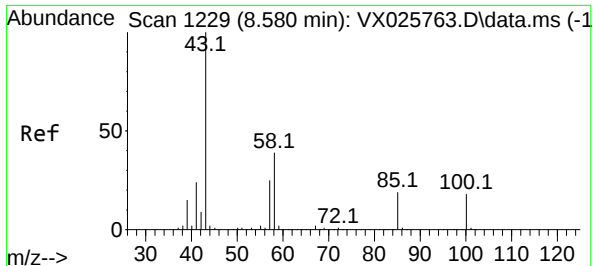
Tgt Ion: 98 Resp: 273285

Ion Ratio Lower Upper

98 100

100 66.1 52.6 78.8

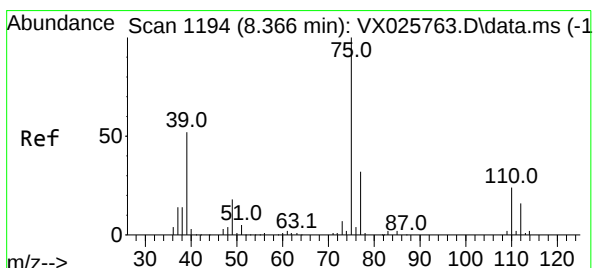
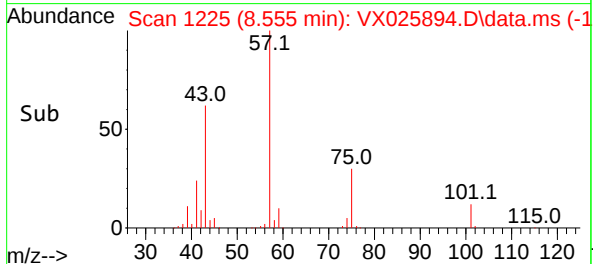
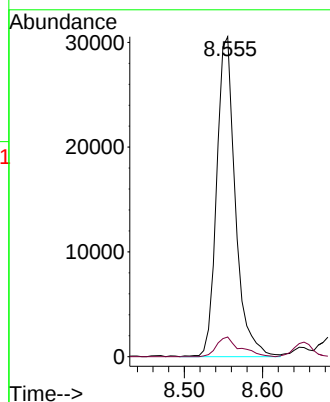
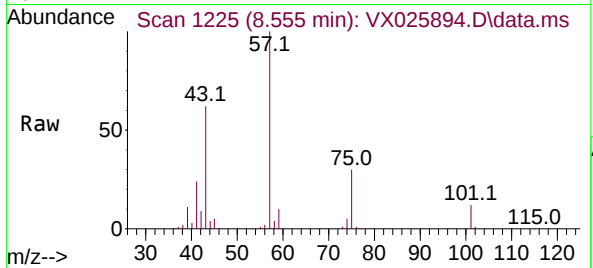




#51  
4-Methyl-2-Pentanone  
Concen: 20.831 ug/l  
RT: 8.555 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

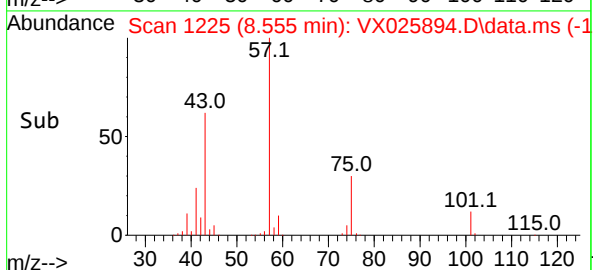
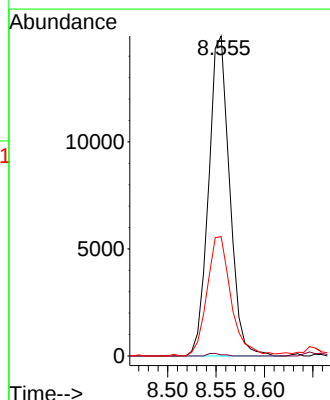
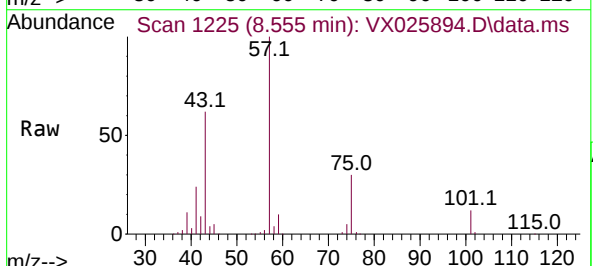
Instrument :  
MSVOA\_X  
ClientSampleId :

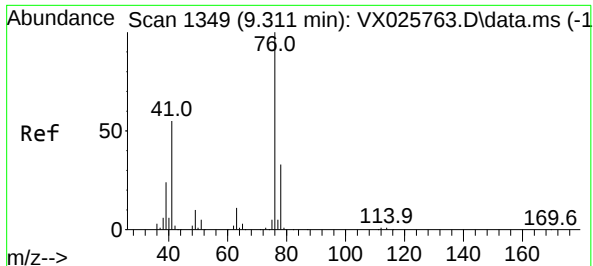
Tgt Ion: 43 Resp: 50588  
Ion Ratio Lower Upper  
43 100  
58 7.7 30.8 46.2#



#54  
cis-1,3-Dichloropropene  
Concen: 9.058 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.189 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 75 Resp: 22588  
Ion Ratio Lower Upper  
75 100  
77 0.4 25.3 37.9#  
39 37.3 41.4 62.0#





#57

1,3-Dichloropropane

Concen: 5.469 ug/l

RT: 9.488 min Scan# 1378

Delta R.T. 0.177 min

Lab File: VX025894.D

Acq: 17 Dec 2021 18:38

Instrument :

MSVOA\_X

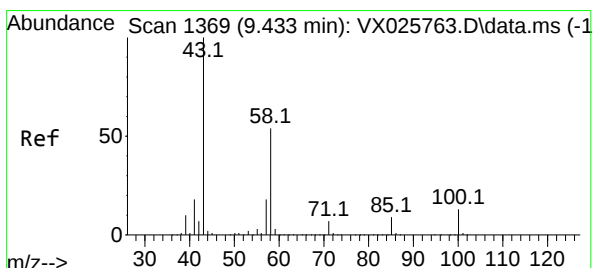
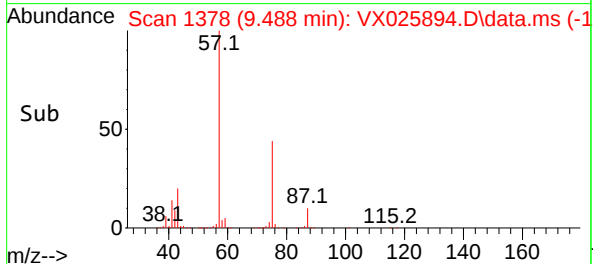
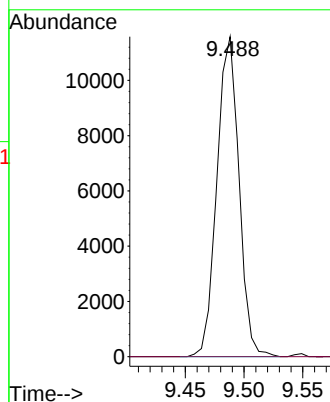
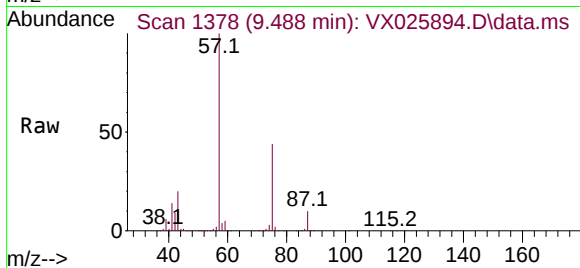
ClientSampleId :

Tgt Ion: 76 Resp: 15154

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 111.528 ug/l

RT: 9.488 min Scan# 1378

Delta R.T. 0.055 min

Lab File: VX025894.D

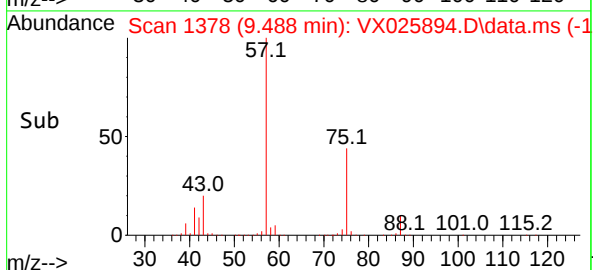
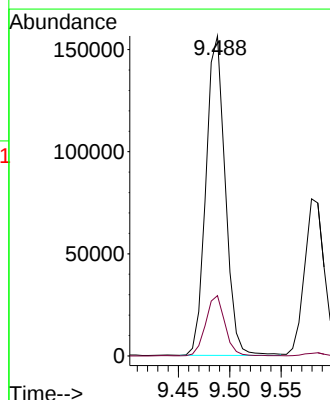
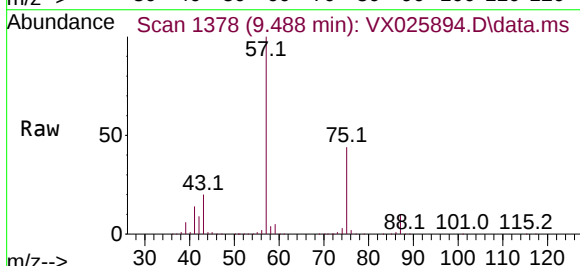
Acq: 17 Dec 2021 18:38

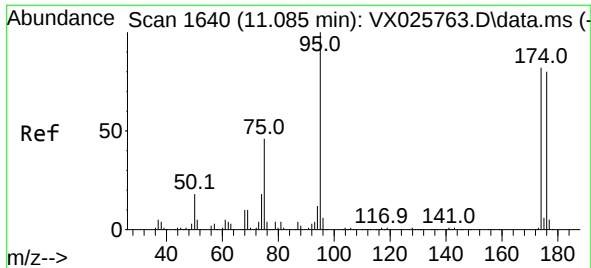
Tgt Ion: 43 Resp: 205212

Ion Ratio Lower Upper

43 100

58 18.8 26.9 80.6#

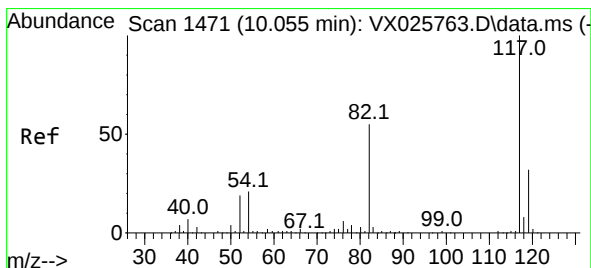
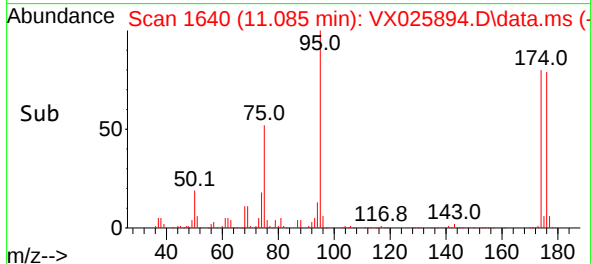
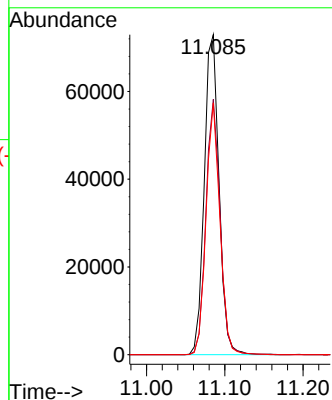
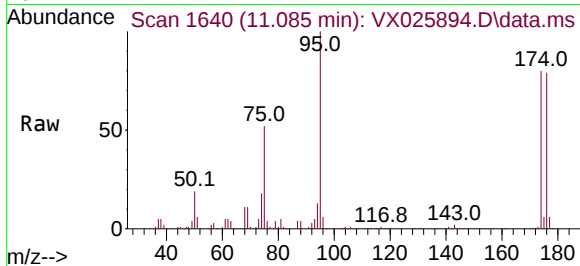




#62  
4-Bromofluorobenzene  
Concen: 44.990 ug/l  
RT: 11.085 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

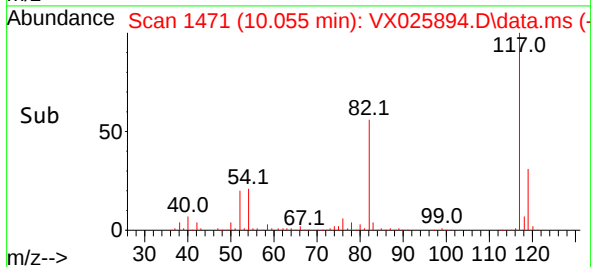
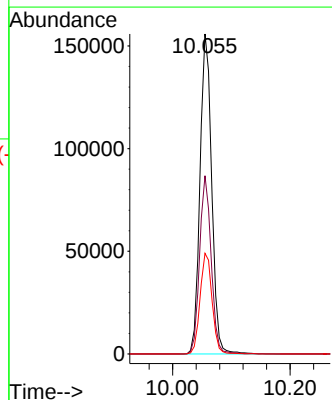
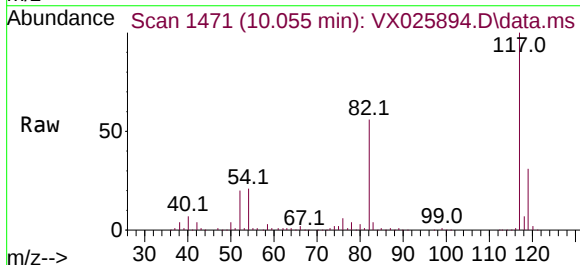
Instrument :  
MSVOA\_X  
ClientSampleId :

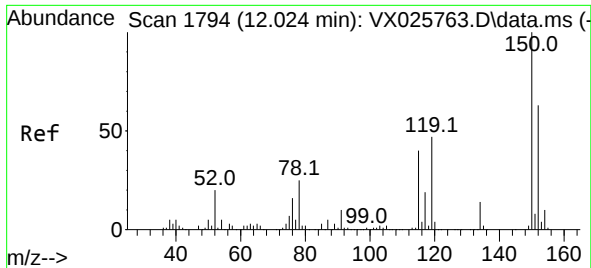
Tgt Ion: 95 Resp: 95163  
Ion Ratio Lower Upper  
95 100  
174 76.8 0.0 157.4  
176 74.0 0.0 154.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

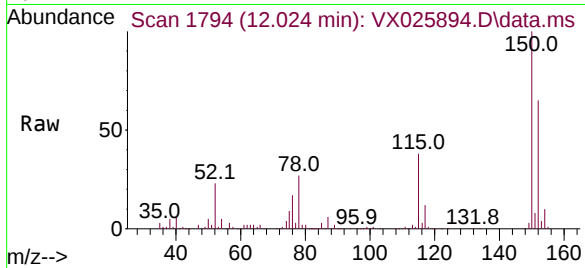
Tgt Ion: 117 Resp: 214778  
Ion Ratio Lower Upper  
117 100  
82 55.7 43.8 65.6  
119 31.5 25.2 37.8



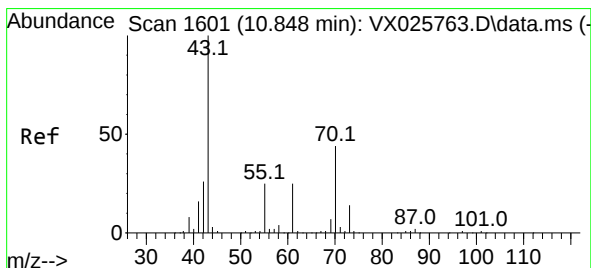
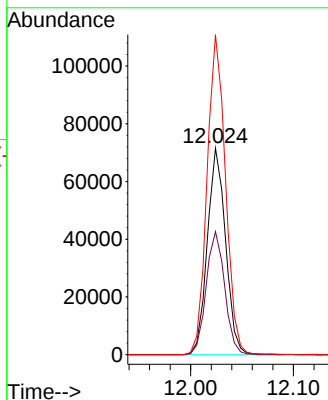
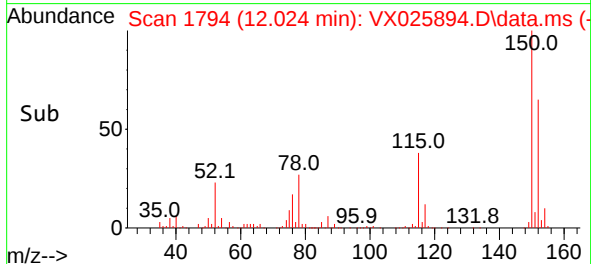


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

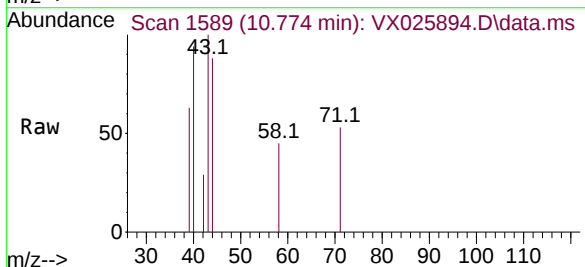
Instrument :  
MSVOA\_X  
ClientSampleId :



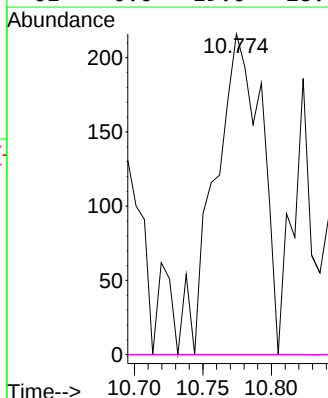
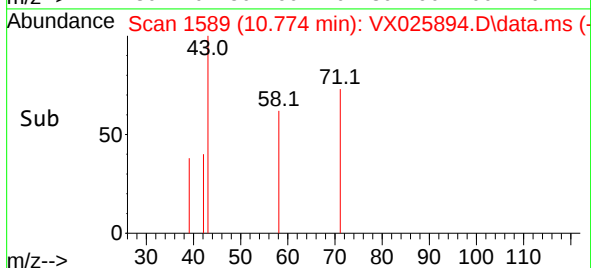
Tgt Ion:152 Resp: 88187  
Ion Ratio Lower Upper  
152 100  
115 60.4 41.3 123.9  
150 156.6 0.0 351.8

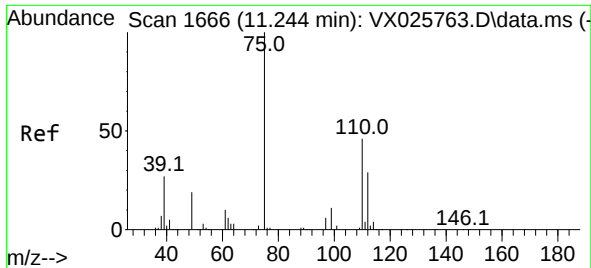


#74  
N-ethyl acetate  
Concen: 0.200 ug/l  
RT: 10.774 min Scan# 1589  
Delta R.T. -0.073 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38



Tgt Ion: 43 Resp: 515  
Ion Ratio Lower Upper  
43 100  
70 0.0 34.1 51.1#  
55 0.0 19.2 28.8#  
61 0.0 19.0 28.4#

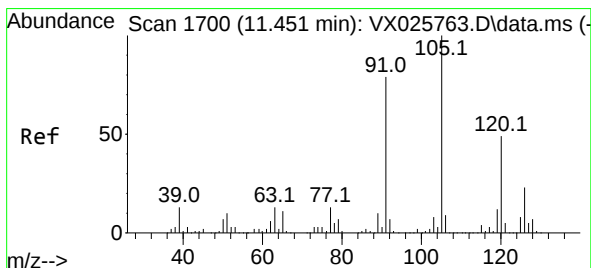
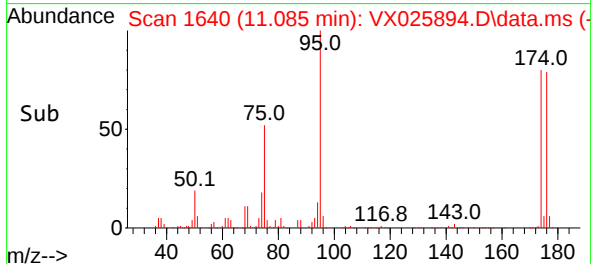
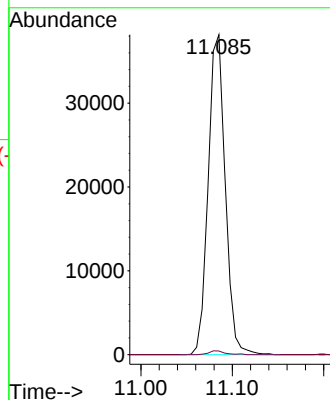
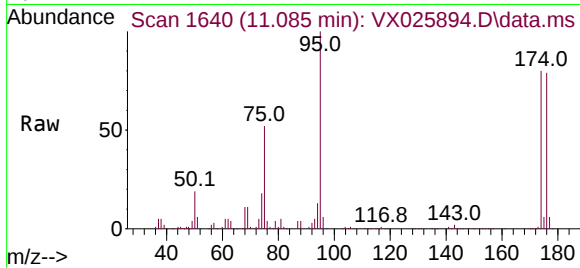




#76  
1,2,3-Trichloropropane  
Concen: 24.445 ug/l  
RT: 11.085 min Scan# 11  
Delta R.T. -0.159 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

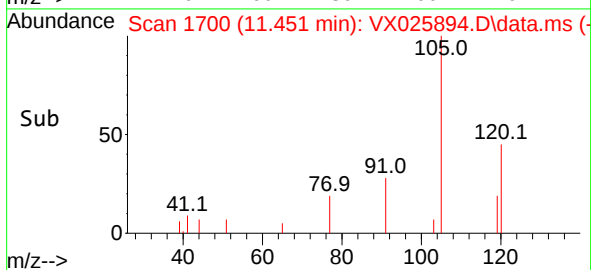
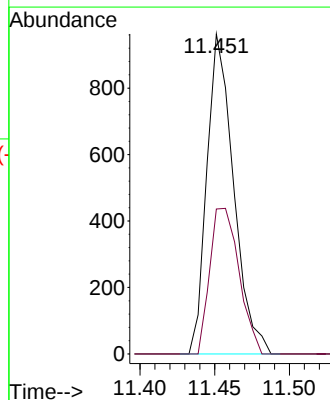
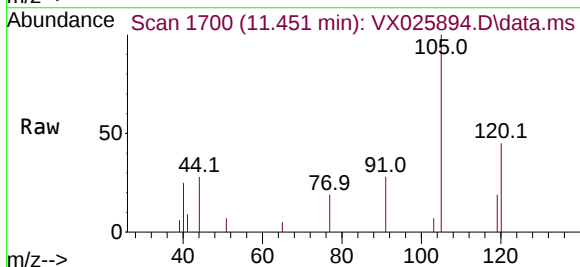
Instrument :  
MSVOA\_X  
ClientSampleId :

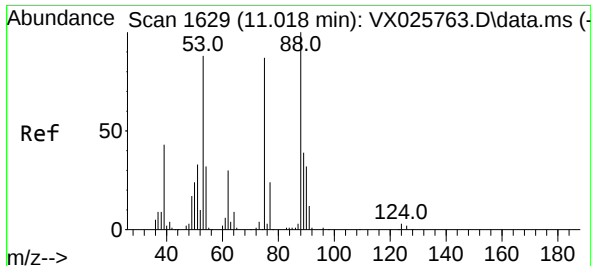
Tgt Ion: 75 Resp: 49392  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.0 57.0#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.225 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX025894.D  
Acq: 17 Dec 2021 18:38

Tgt Ion: 105 Resp: 1196  
Ion Ratio Lower Upper  
105 100  
120 49.7 24.9 74.7

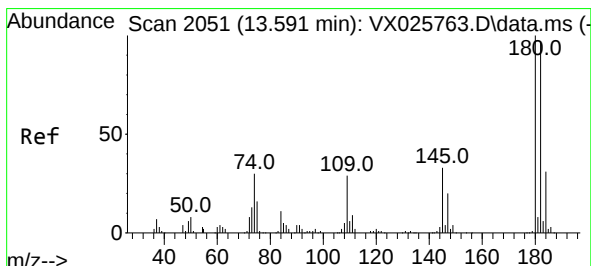
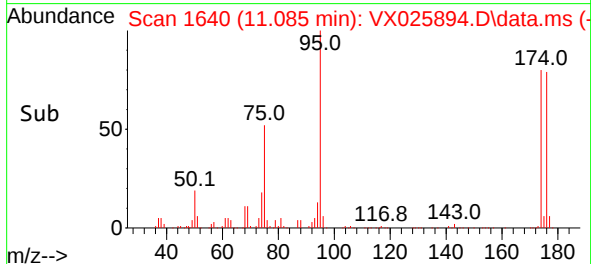
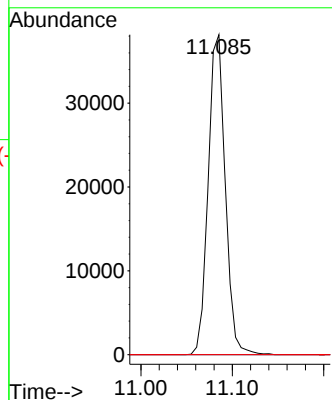
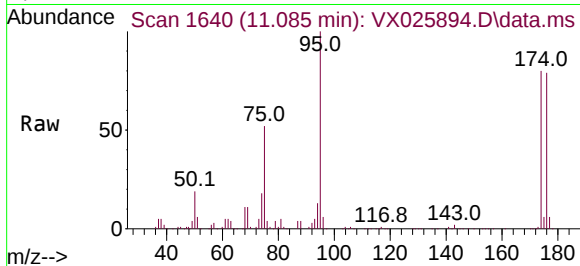




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 75.787 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.067 min  
 Lab File: VX025894.D  
 Acq: 17 Dec 2021 18:38

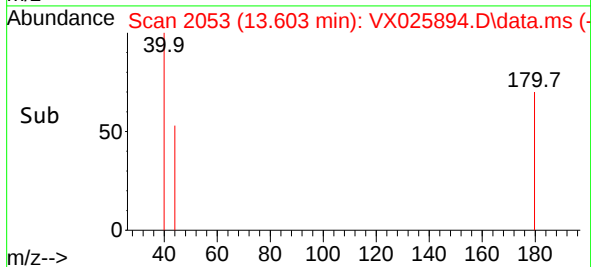
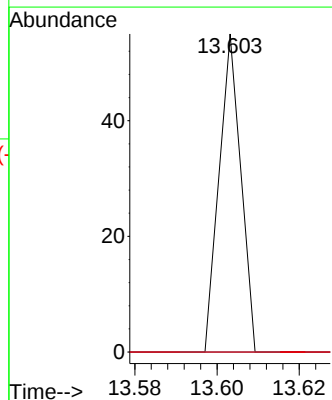
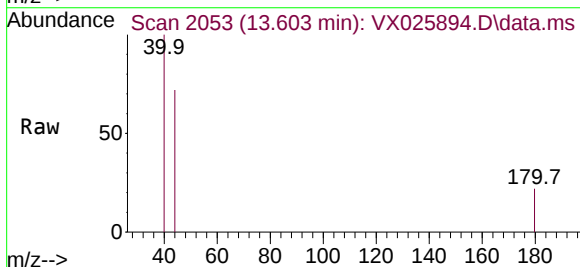
Instrument :  
 MSVOA\_X  
 ClientSampleId :

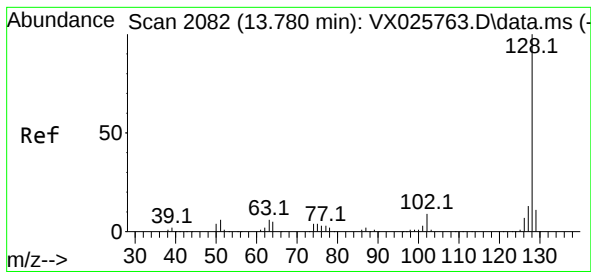
Tgt Ion: 75 Resp: 49392  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.5 119.3#  
 89 0.0 38.3 57.5#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.381 ug/l  
 RT: 13.603 min Scan# 2053  
 Delta R.T. 0.012 min  
 Lab File: VX025894.D  
 Acq: 17 Dec 2021 18:38

Tgt Ion:180 Resp: 20  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 47.2 141.6#  
 145 0.0 16.3 48.9#





#95

Naphthalene

Concen: 2.442 ug/l

RT: 13.780 min Scan# 20

Delta R.T. -0.000 min

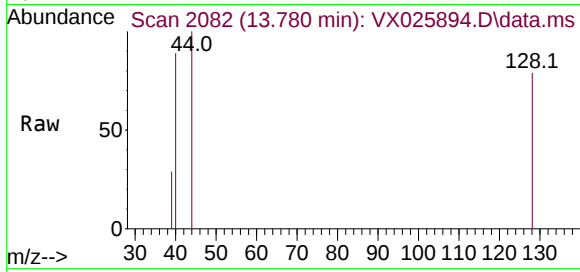
Lab File: VX025894.D

Acq: 17 Dec 2021 18:38

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion:128 Resp: 196

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.8 13.2#

