

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102522\  
 Data File : VX032388.D  
 Acq On : 26 Oct 2022 00:56  
 Operator : JC/MD  
 Sample : N5267-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP1-1024

Quant Time: Oct 27 14:21:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X101922W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 22 04:56:40 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 128699     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 206512     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 185031     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 85977      | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 83082      | 49.624    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 99.240%   |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 65907      | 45.863    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 91.720%   |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 245106     | 47.382    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 94.760%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 84751      | 44.741    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 89.480%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 1.270          | 50   | 421        | Below Cal | #      | 44       |
| 6) Chloroethane               | 1.624          | 64   | 24         | 1.971     | ug/l # | 41       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 804        | Below Cal | #      | 74       |
| 16) Acetone                   | 2.380          | 43   | 16228      | 29.868    | ug/l   | 98       |
| 18) Methyl Acetate            | 2.709          | 43   | 1158       | 0.628     | ug/l # | 78       |
| 20) Methylene Chloride        | 2.794          | 84   | 7294       | 5.228     | ug/l   | 90       |
| 25) 2-Butanone                | 4.568          | 43   | 1213       | 1.430     | ug/l   | 96       |
| 29) Tetrahydrofuran           | 5.025          | 42   | 364        | 0.664     | ug/l # | 56       |
| 31) Cyclohexane               | 5.544          | 56   | 2975       | 1.554     | ug/l # | 19       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 9663       | 5.227     | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.721          | 43   | 11749      | 6.491     | ug/l   | 97       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 13036      | 6.680     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 55580      | 19.565    | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.799          | 41   | 41192      | 29.076    | ug/l # | 42       |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 49927      | 28.038    | ug/l # | 49       |
| 53) t-1,3-Dichloropropene     | 8.952          | 75   | 222        | 1.921     | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 21877      | 10.543    | ug/l # | 67       |
| 56) Ethyl methacrylate        | 9.250          | 69   | 494        | 0.243     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 1976       | 0.865     | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 28082      | 21.135    | ug/l # | 53       |
| 74) N-amyl acetate            | 10.817         | 43   | 580        | 0.256     | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 46513      | 27.303    | ug/l # | 44       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 46513      | 83.803    | ug/l # | 6        |
| -----                         |                |      |            |           |        |          |

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

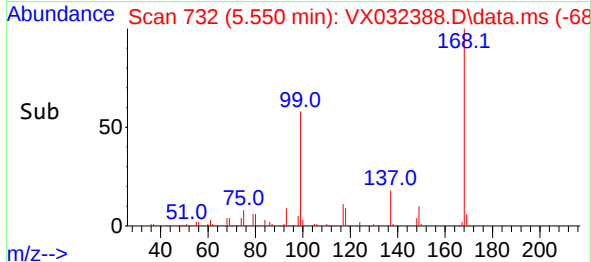
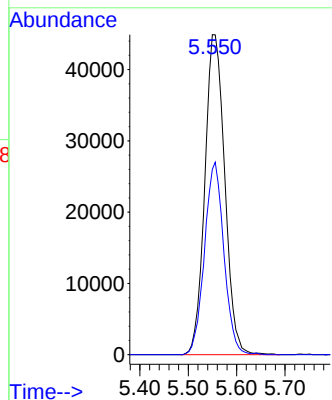
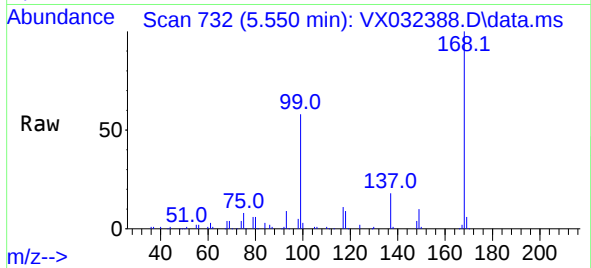




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

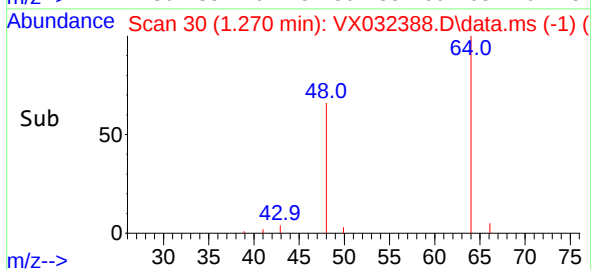
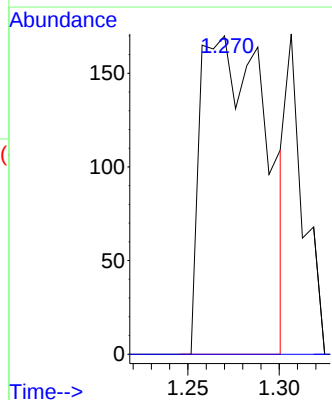
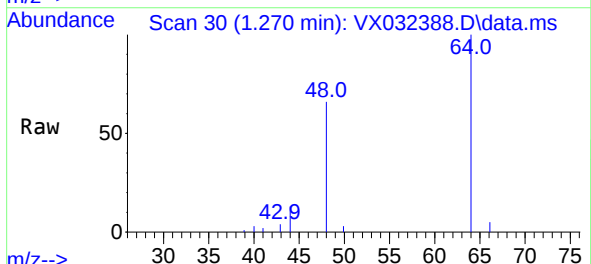
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

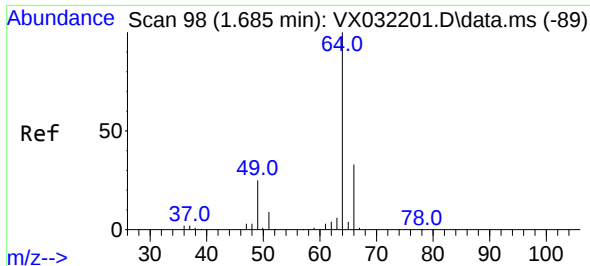
Tgt Ion:168 Resp: 128699  
Ion Ratio Lower Upper  
168 100  
99 58.0 44.8 67.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.270 min Scan# 30  
Delta R.T. -0.025 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 50 Resp: 421  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.7 37.1#

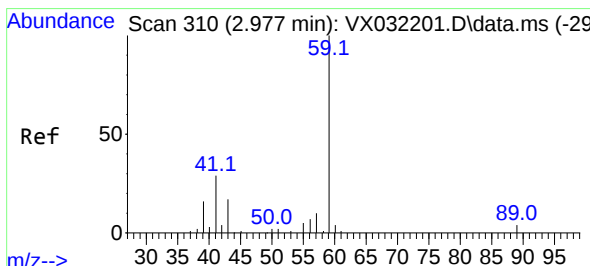
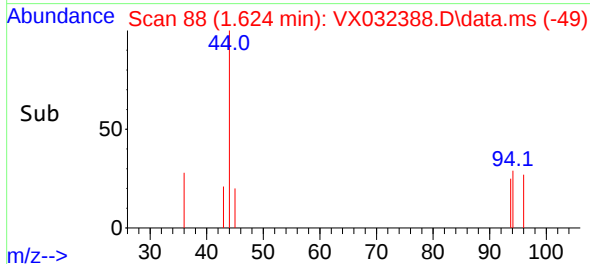
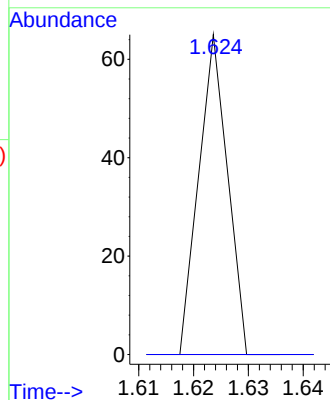
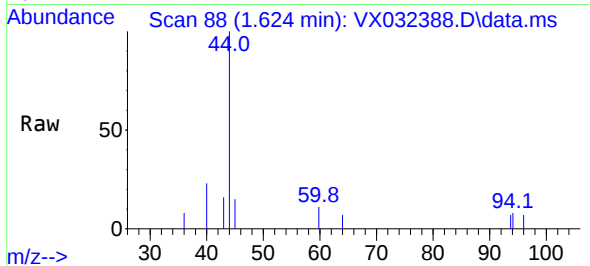




#6  
Chloroethane  
Concen: 1.971 ug/l  
RT: 1.624 min Scan# 81  
Delta R.T. -0.061 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

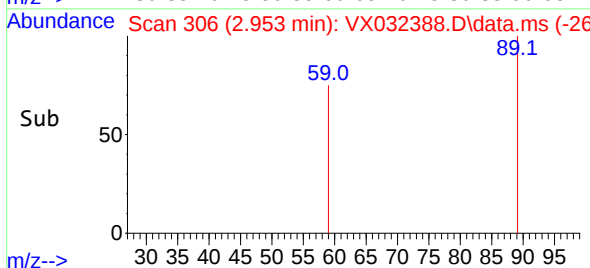
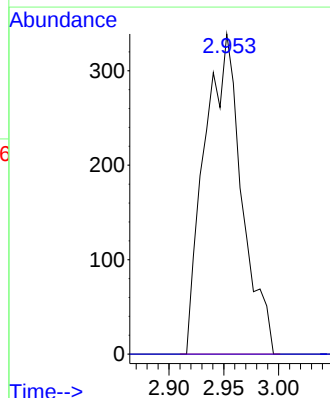
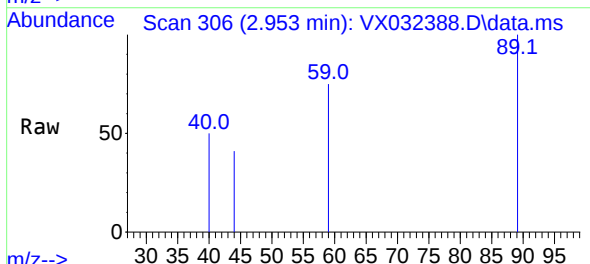
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

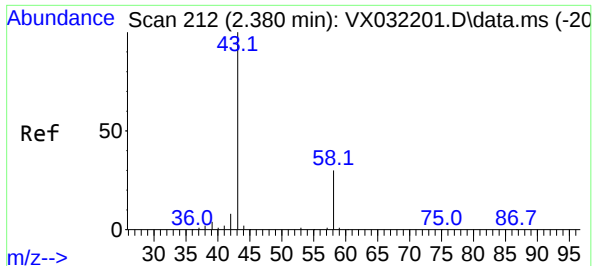
Tgt Ion: 64 Resp: 24  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.6 39.8#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.953 min Scan# 306  
Delta R.T. -0.024 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 59 Resp: 804  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.5 11.3#

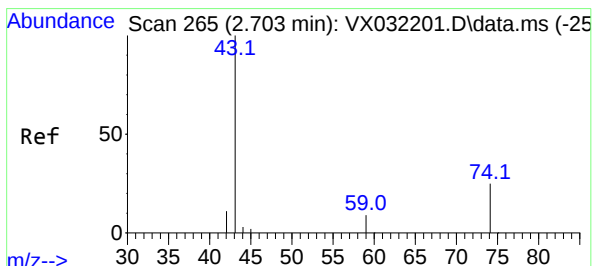
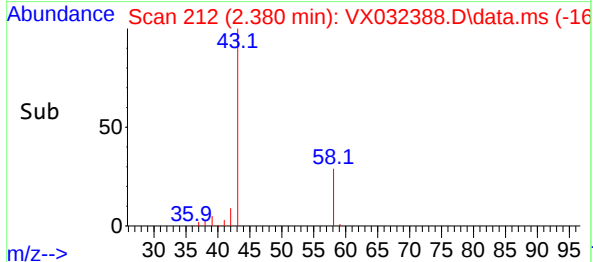
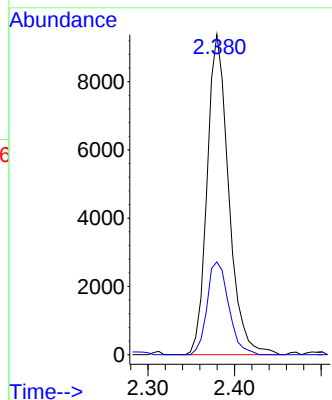
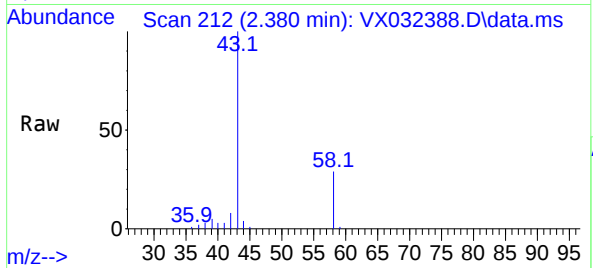




#16  
Acetone  
Concen: 29.868 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

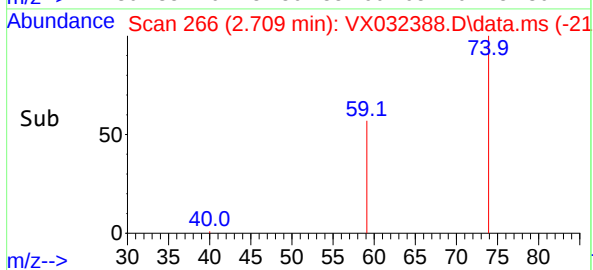
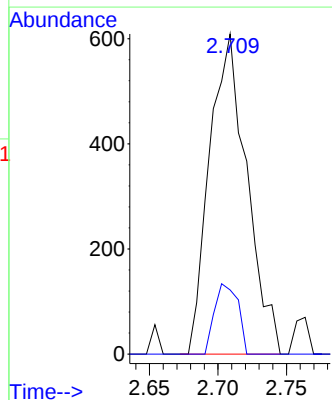
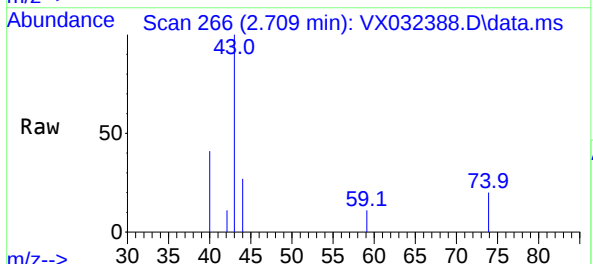
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

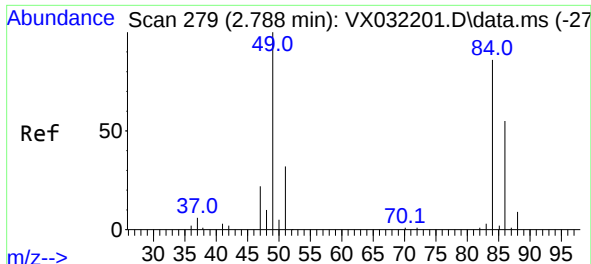
Tgt Ion: 43 Resp: 16228  
Ion Ratio Lower Upper  
43 100  
58 29.0 24.2 36.2



#18  
Methyl Acetate  
Concen: 0.628 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 43 Resp: 1158  
Ion Ratio Lower Upper  
43 100  
74 13.7 19.8 29.8#



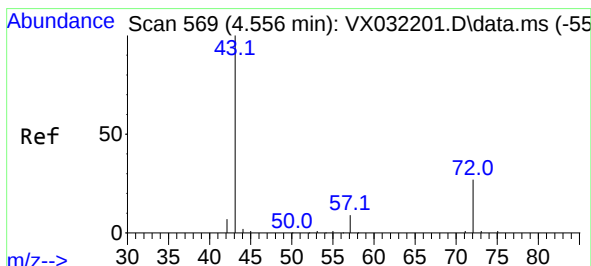
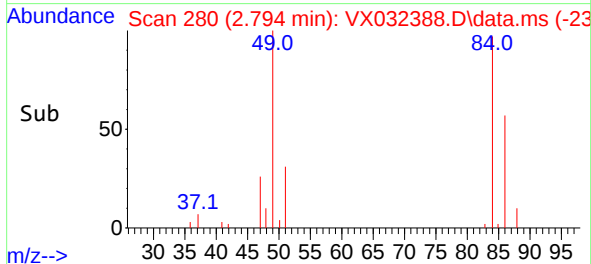
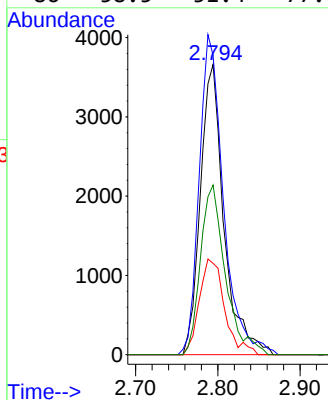
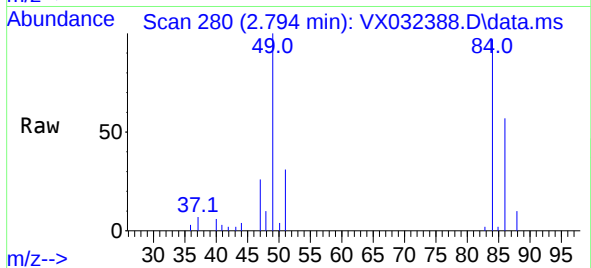


#20  
Methylene Chloride  
Concen: 5.228 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

Tgt Ion: 84 Resp: 7294

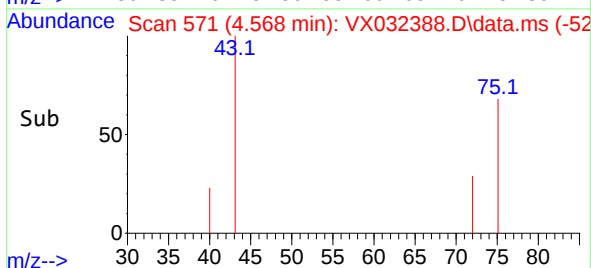
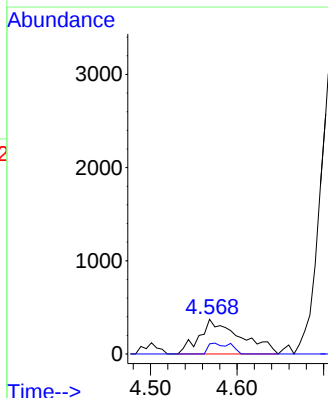
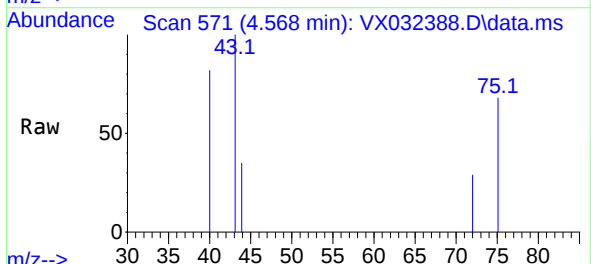
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 103.1 | 92.6  | 139.0 |
| 51  | 31.5  | 29.2  | 43.8  |
| 86  | 58.5  | 51.4  | 77.0  |

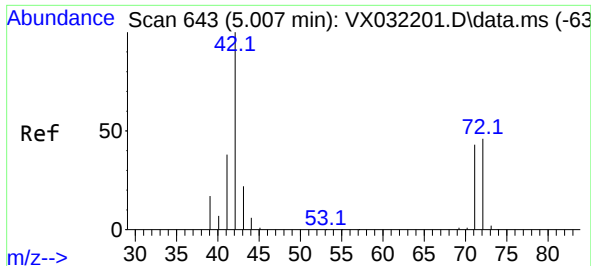


#25  
2-Butanone  
Concen: 1.430 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 43 Resp: 1213

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 29.0  | 21.7  | 32.5  |





#29

Tetrahydrofuran

Concen: 0.664 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX032388.D

Acq: 26 Oct 2022 00:56

Instrument :

MSVOA\_X

ClientSampleId :

TP1-1024

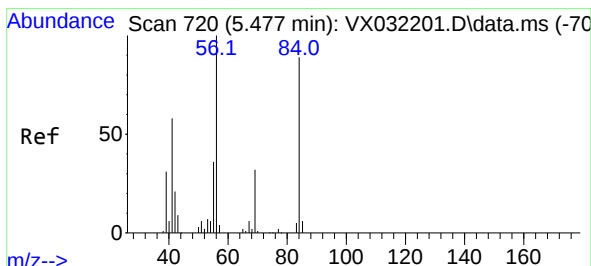
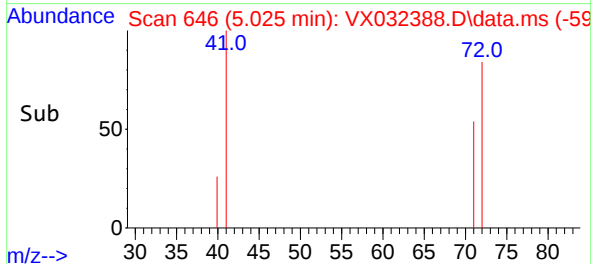
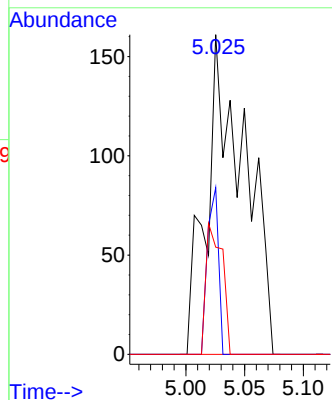
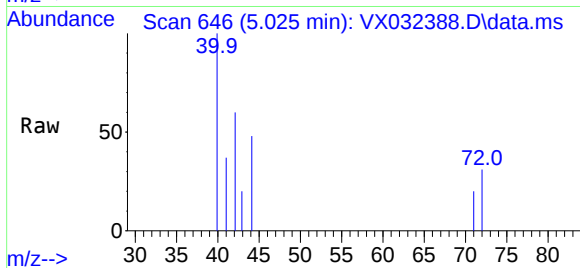
Tgt Ion: 42 Resp: 364

Ion Ratio Lower Upper

42 100

72 15.1 37.5 56.3#

71 17.3 34.7 52.1#



#31

Cyclohexane

Concen: 1.554 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.067 min

Lab File: VX032388.D

Acq: 26 Oct 2022 00:56

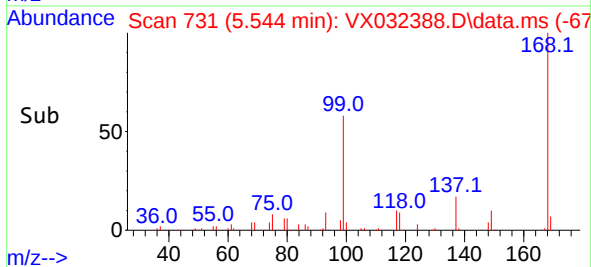
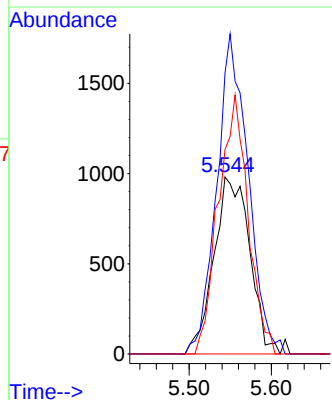
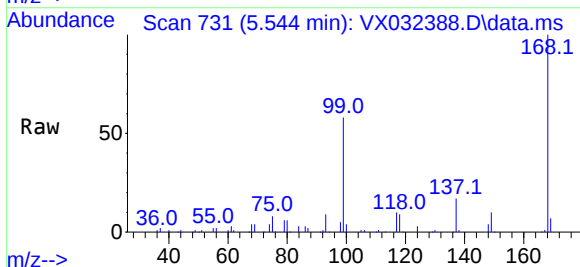
Tgt Ion: 56 Resp: 2975

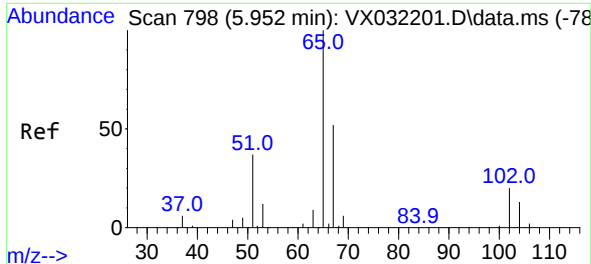
Ion Ratio Lower Upper

56 100

69 158.6 25.4 38.0#

84 115.5 71.2 106.8#

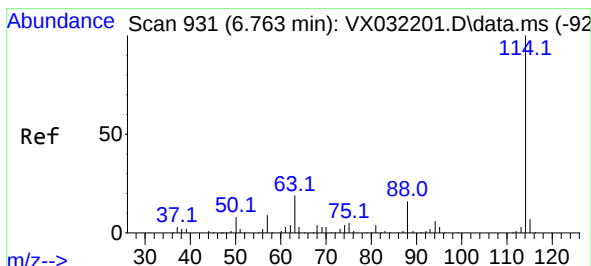
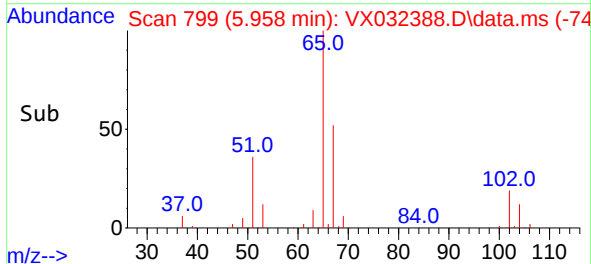
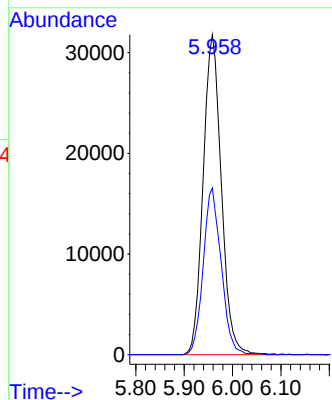
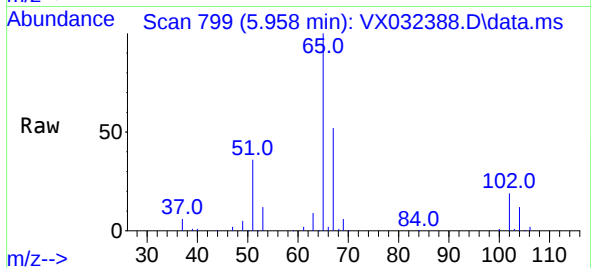




#33  
1,2-Dichloroethane-d4  
Concen: 49.624 ug/l  
RT: 5.958 min Scan# 798  
Delta R.T. 0.006 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

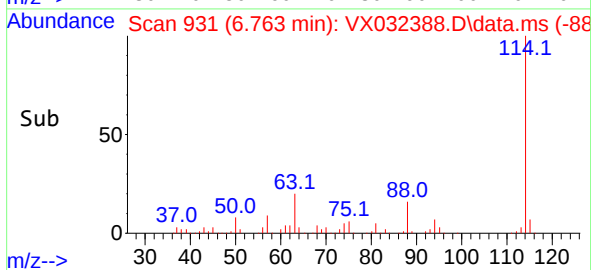
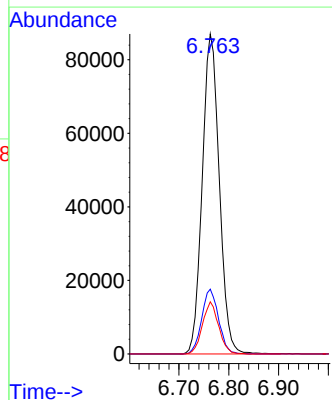
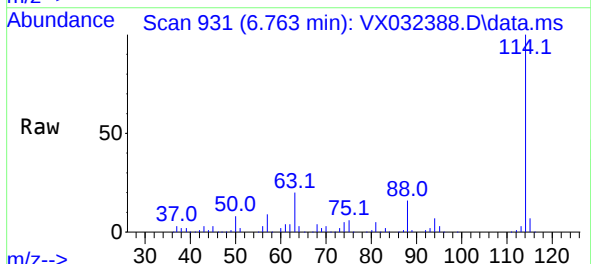
Instrument :  
MSVOA\_X  
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TP1-1024

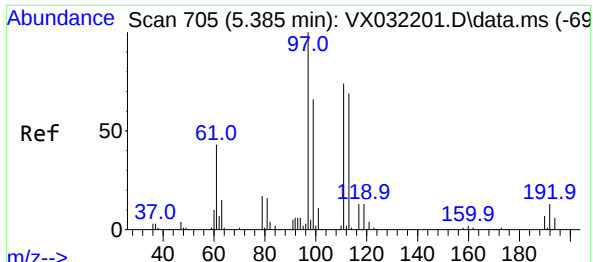
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Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 103.6



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. -0.000 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 114 Resp: 206512  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 38.6  
88 16.3 0.0 32.6

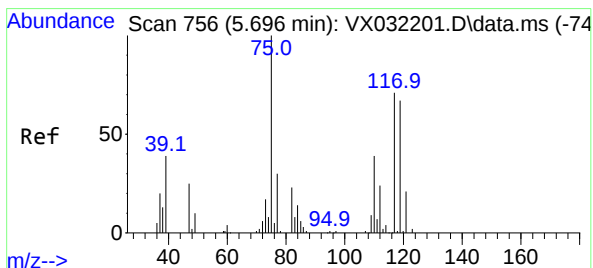
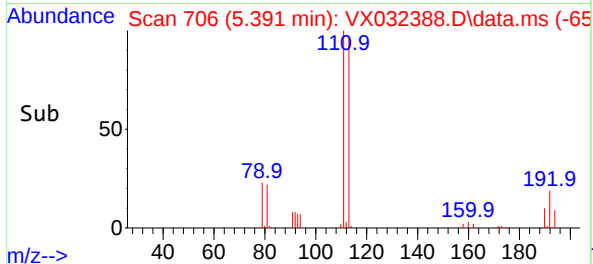
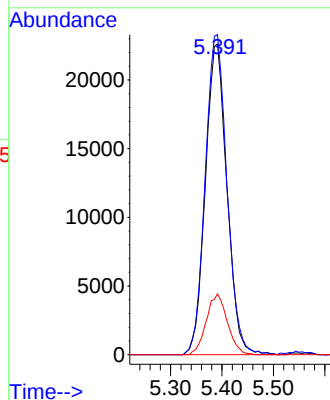
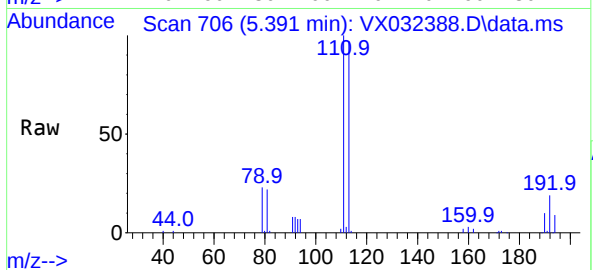




#35  
Dibromofluoromethane  
Concen: 45.863 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

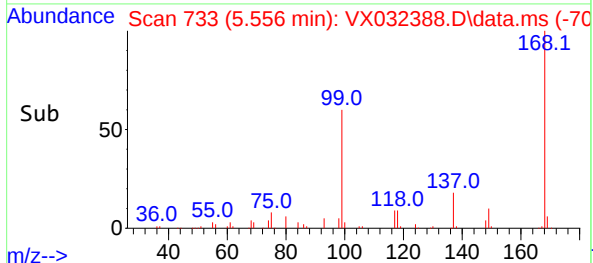
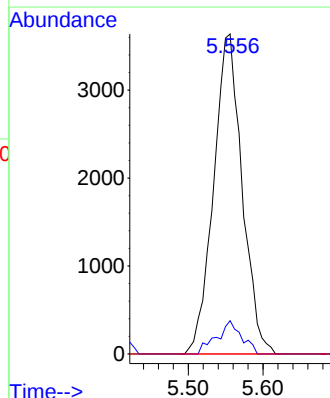
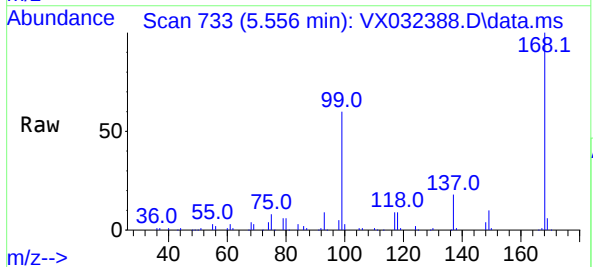
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

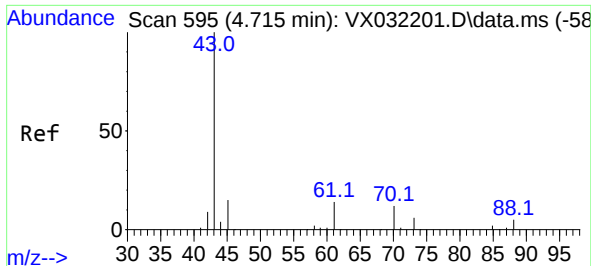
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Ion Ratio Lower Upper  
113 100  
111 104.0 82.8 124.2  
192 19.1 15.5 23.3



#36  
1,1-Dichloropropene  
Concen: 5.227 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 75 Resp: 9663  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.4 55.0#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 6.491 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX032388.D

Acq: 26 Oct 2022 00:56

Instrument :

MSVOA\_X

ClientSampleId :

TP1-1024

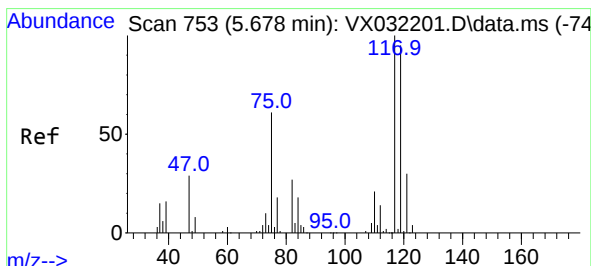
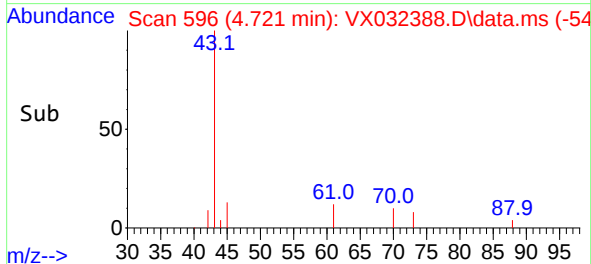
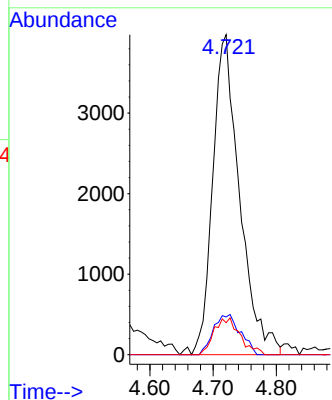
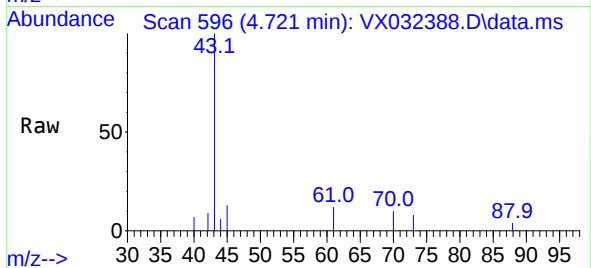
Tgt Ion: 43 Resp: 11749

Ion Ratio Lower Upper

43 100

61 12.5 11.4 17.2

70 11.1 8.8 13.2



#38

Carbon Tetrachloride

Concen: 6.680 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX032388.D

Acq: 26 Oct 2022 00:56

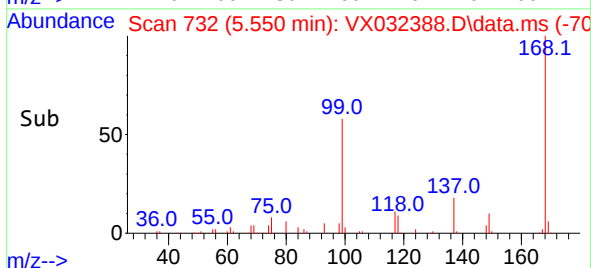
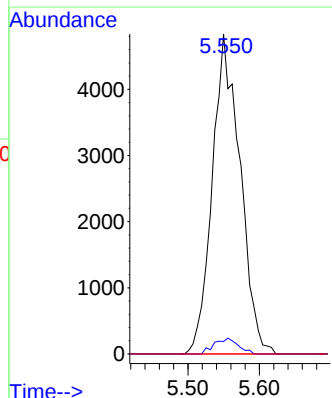
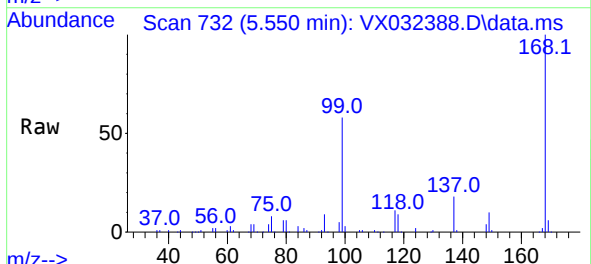
Tgt Ion: 117 Resp: 13036

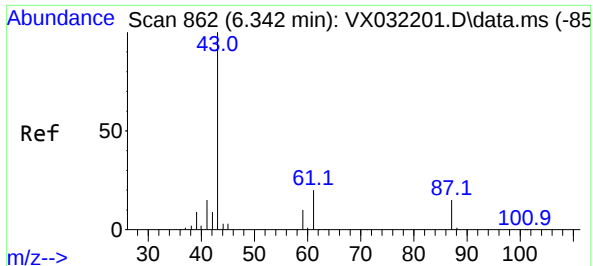
Ion Ratio Lower Upper

117 100

119 3.9 75.4 113.0#

121 0.0 23.9 35.9#

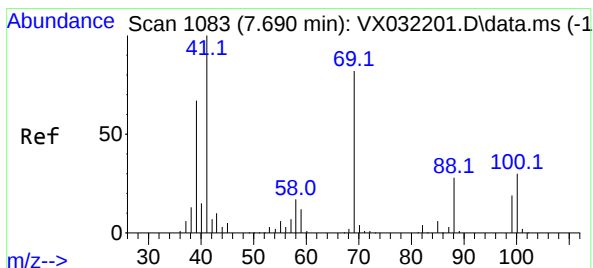
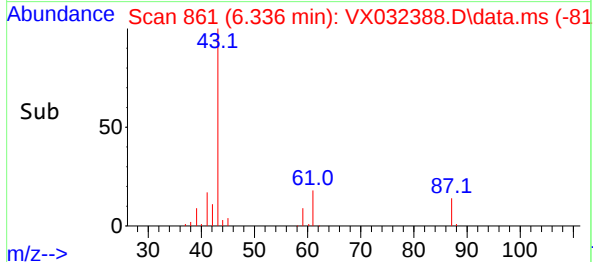
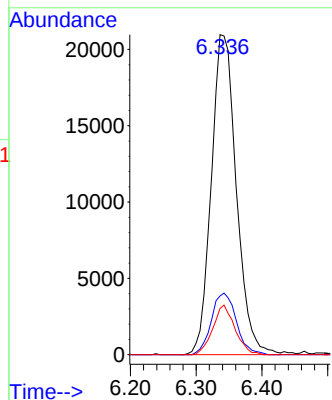
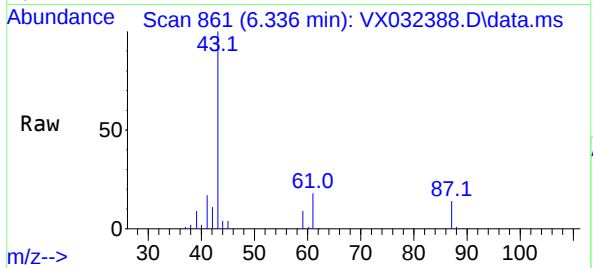




#43  
Isopropyl Acetate  
Concen: 19.565 ug/l  
RT: 6.336 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

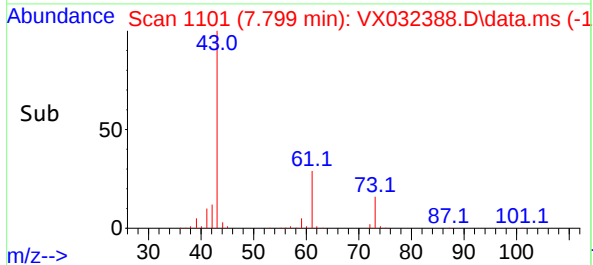
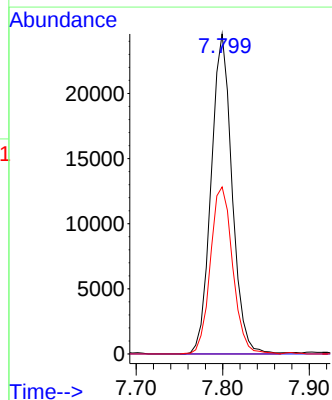
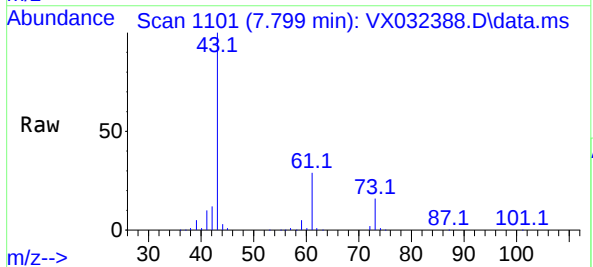
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

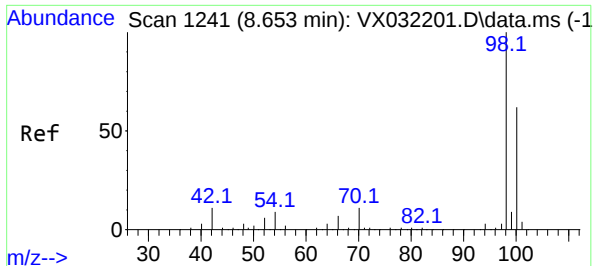
Tgt Ion: 43 Resp: 55580  
Ion Ratio Lower Upper  
43 100  
61 19.2 15.5 23.3  
87 13.7 11.0 16.6



#48  
Methyl methacrylate  
Concen: 29.076 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.109 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 41 Resp: 41192  
Ion Ratio Lower Upper  
41 100  
69 0.0 67.3 100.9#  
39 55.7 53.8 80.8

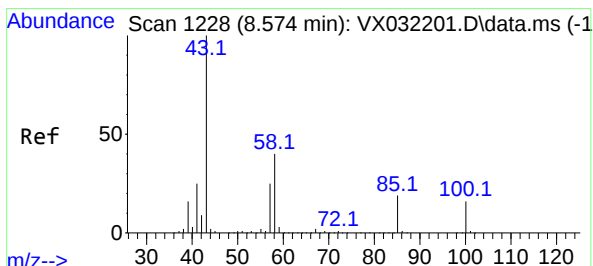
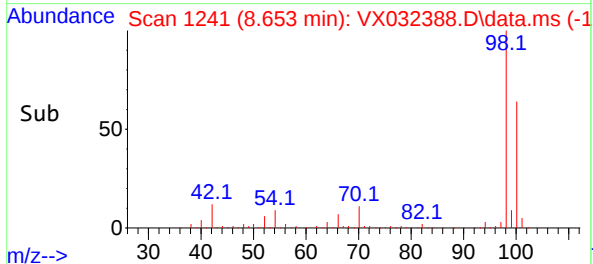
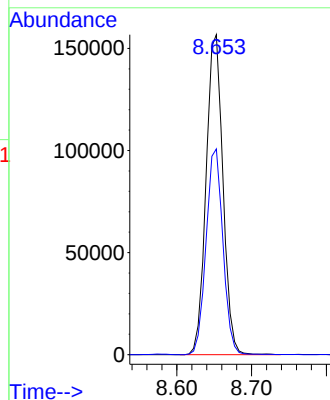
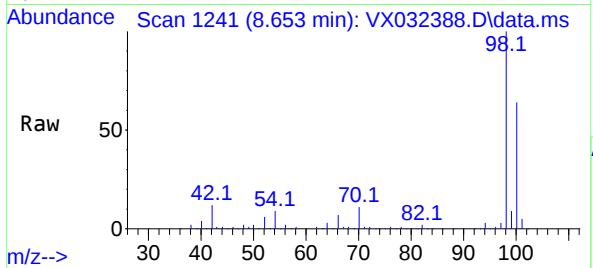




#50  
Toluene-d8  
Concen: 47.382 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

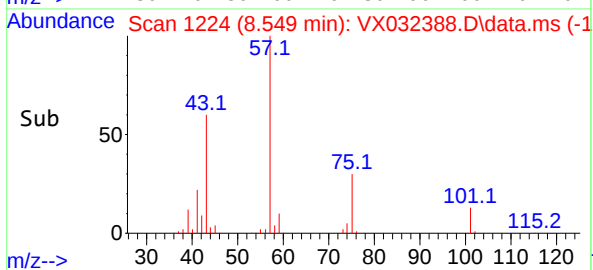
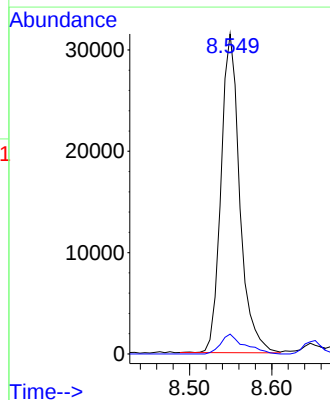
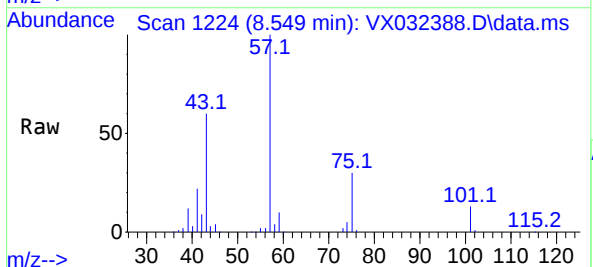
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

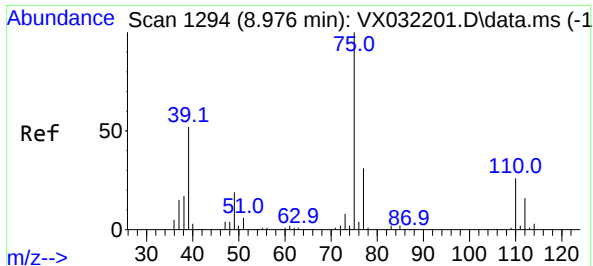
Tgt Ion: 98 Resp: 245106  
Ion Ratio Lower Upper  
98 100  
100 64.3 50.7 76.1



#51  
4-Methyl-2-Pentanone  
Concen: 28.038 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.025 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 43 Resp: 49927  
Ion Ratio Lower Upper  
43 100  
58 7.8 31.0 46.4#





#53

t-1,3-Dichloropropene

Concen: 1.921 ug/l

RT: 8.952 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX032388.D

Acq: 26 Oct 2022 00:56

Instrument :

MSVOA\_X

ClientSampleId :

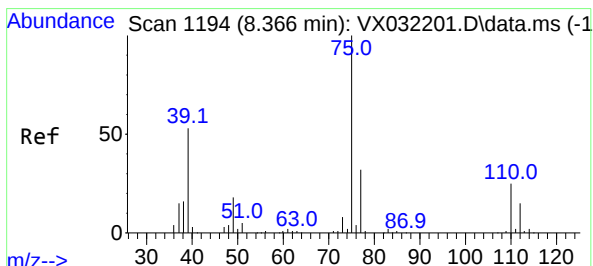
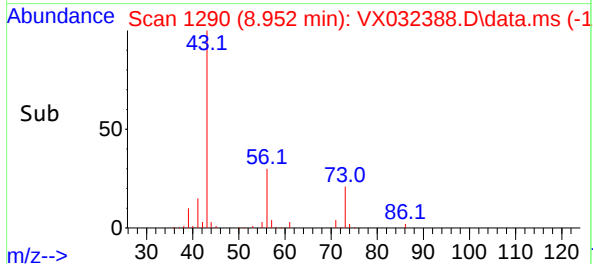
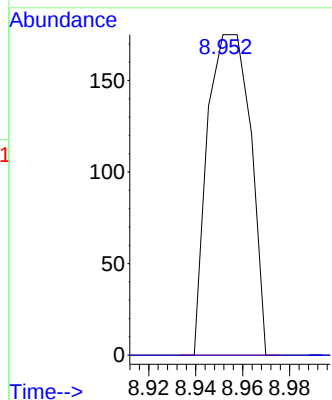
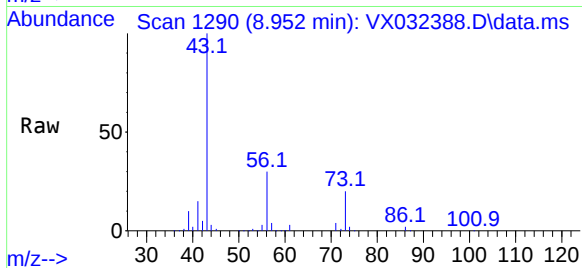
TP1-1024

Tgt Ion: 75 Resp: 222

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#



#54

cis-1,3-Dichloropropene

Concen: 10.543 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX032388.D

Acq: 26 Oct 2022 00:56

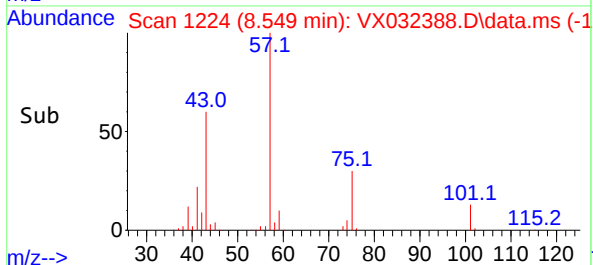
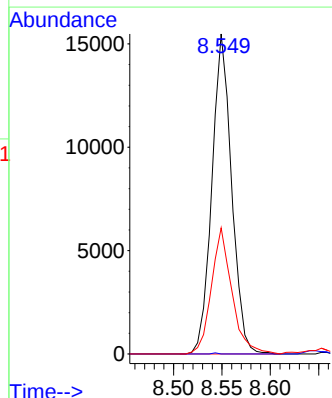
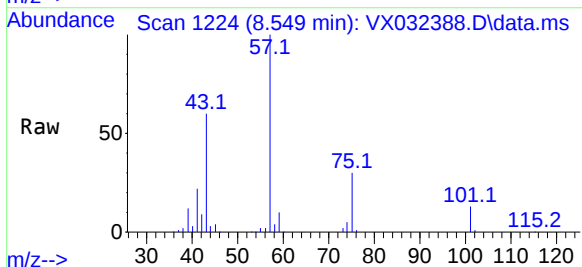
Tgt Ion: 75 Resp: 21877

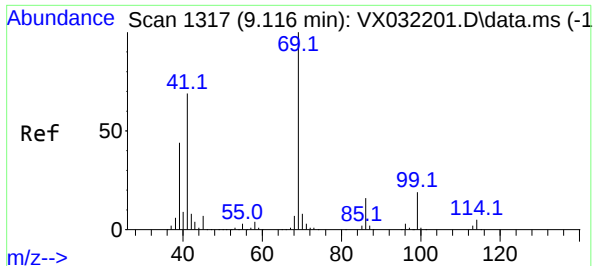
Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

39 39.4 42.4 63.6#





#56

Ethyl methacrylate

Concen: 0.243 ug/l

RT: 9.250 min Scan# 11

Delta R.T. 0.134 min

Lab File: VX032388.D

Acq: 26 Oct 2022 00:56

Instrument :

MSVOA\_X

ClientSampleId :

TP1-1024

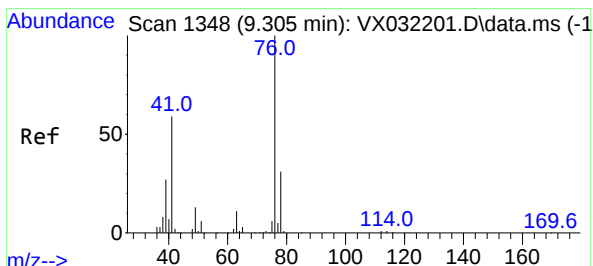
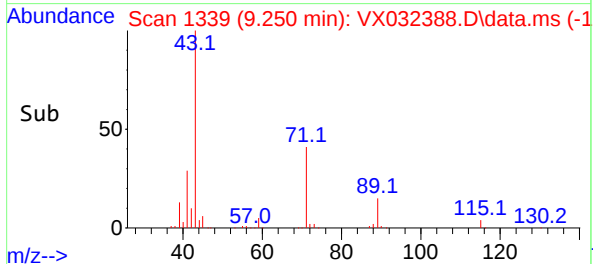
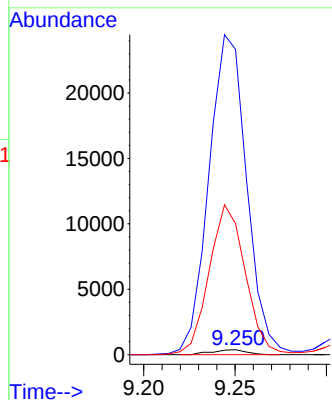
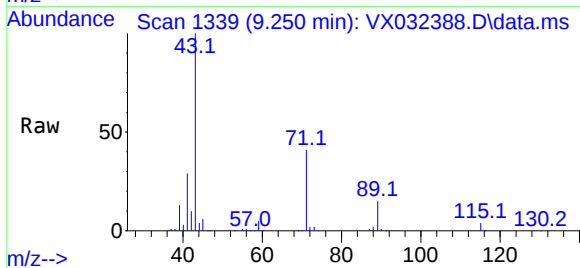
Tgt Ion: 69 Resp: 494

Ion Ratio Lower Upper

69 100

41 7161.5 54.5 81.7#

39 3205.1 35.7 53.5#



#57

1,3-Dichloropropane

Concen: 0.865 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX032388.D

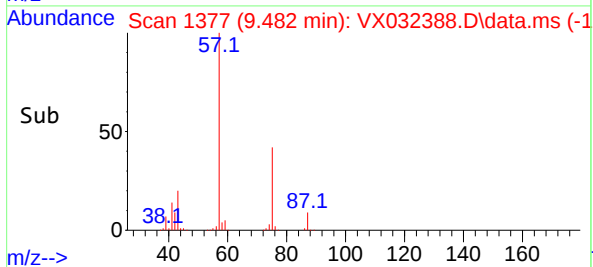
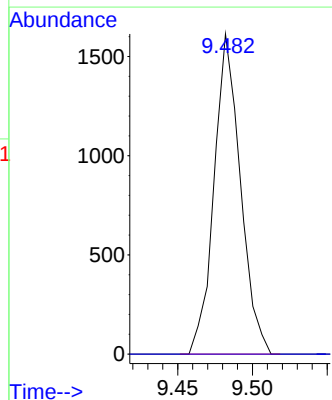
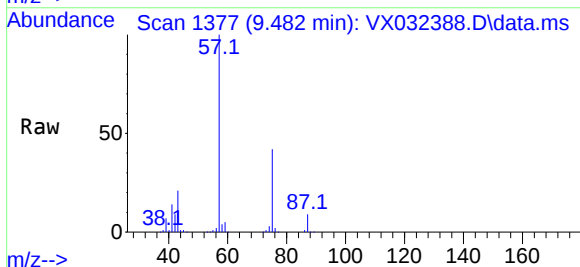
Acq: 26 Oct 2022 00:56

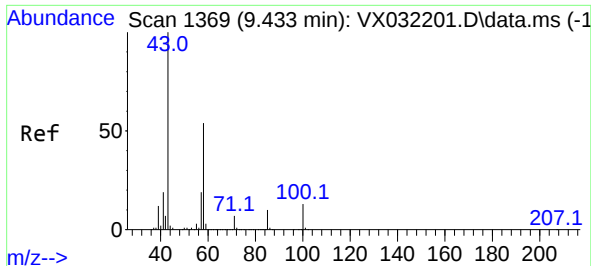
Tgt Ion: 76 Resp: 1976

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#

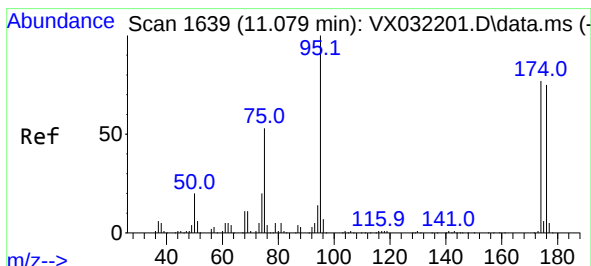
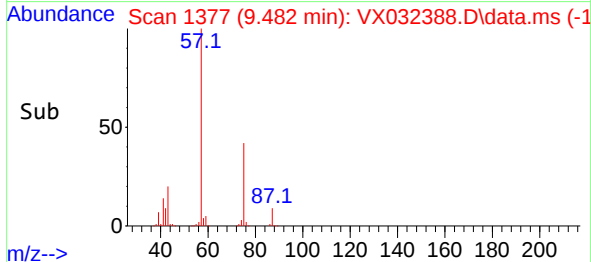
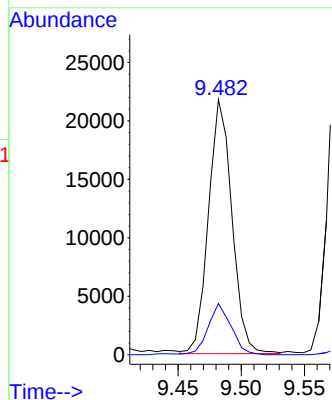
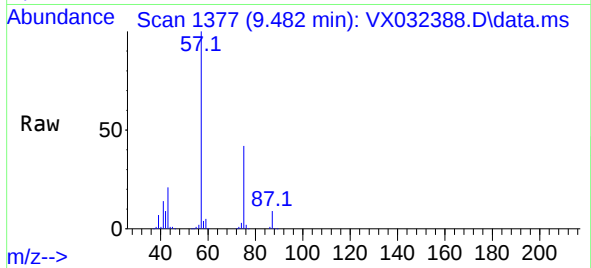




#59  
2-Hexanone  
Concen: 21.135 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.049 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

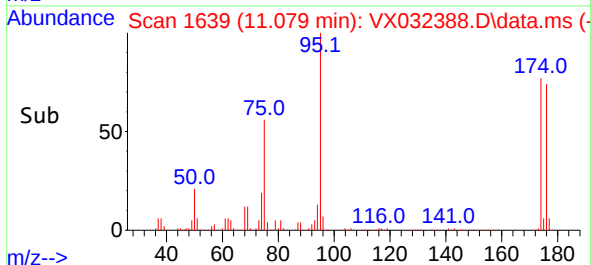
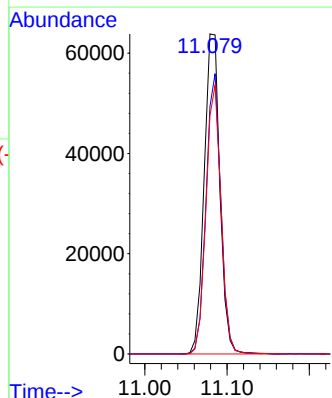
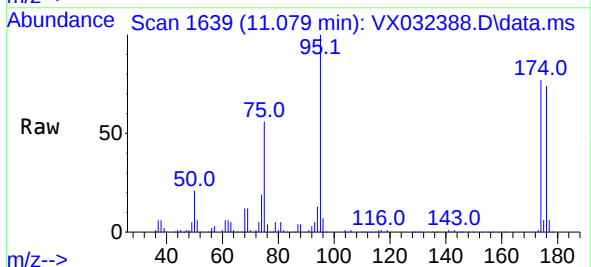
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

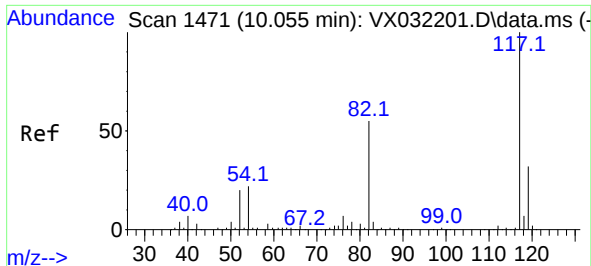
Tgt Ion: 43 Resp: 28082  
Ion Ratio Lower Upper  
43 100  
58 20.0 26.7 80.1#



#62  
4-Bromofluorobenzene  
Concen: 44.741 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion: 95 Resp: 84751  
Ion Ratio Lower Upper  
95 100  
174 82.7 0.0 166.8  
176 80.3 0.0 161.4

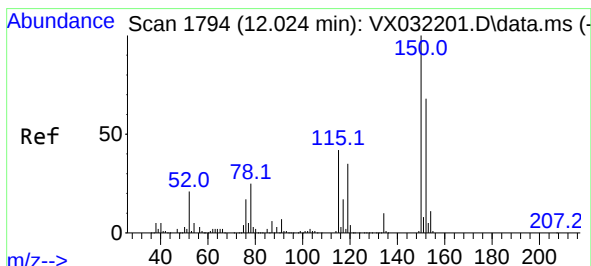
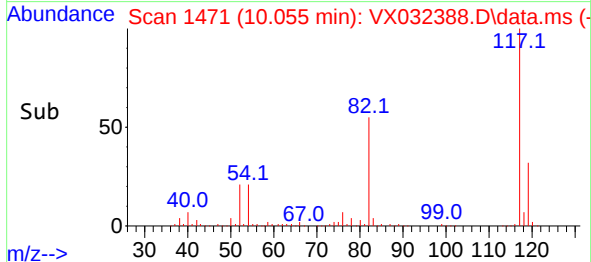
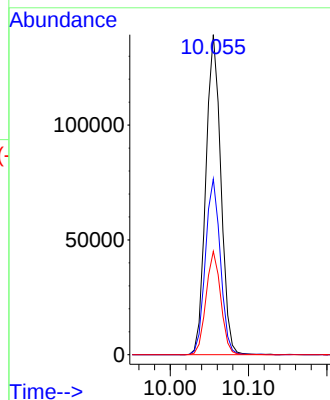
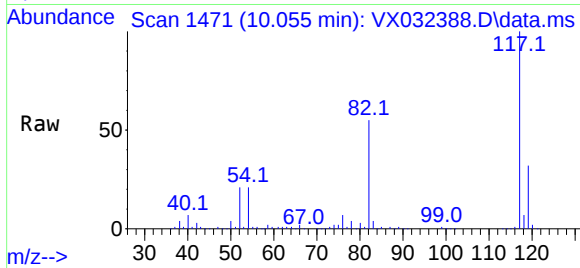




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

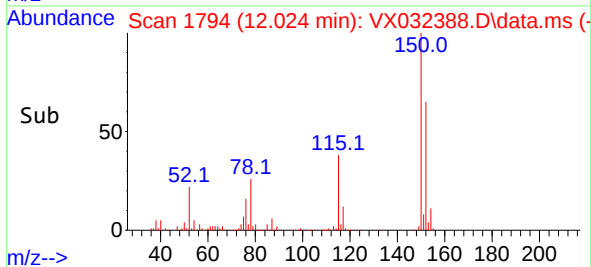
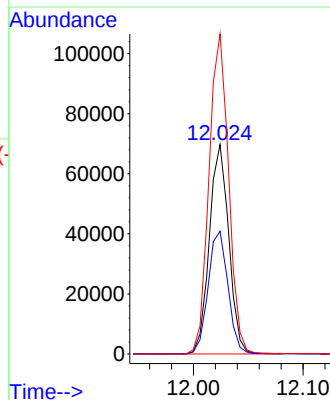
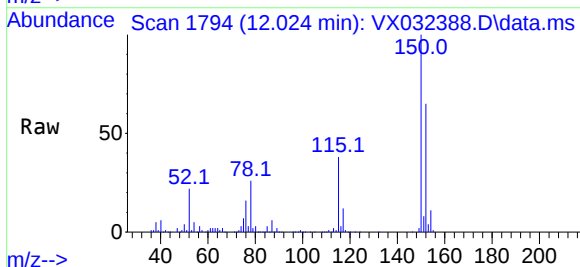
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

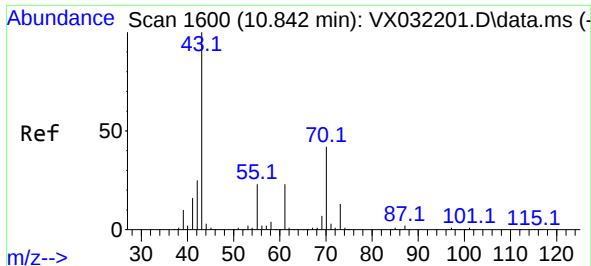
Tgt Ion:117 Resp: 185031  
Ion Ratio Lower Upper  
117 100  
82 54.9 44.2 66.4  
119 32.3 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

Tgt Ion:152 Resp: 85977  
Ion Ratio Lower Upper  
152 100  
115 59.9 43.1 129.4  
150 154.2 0.0 348.6

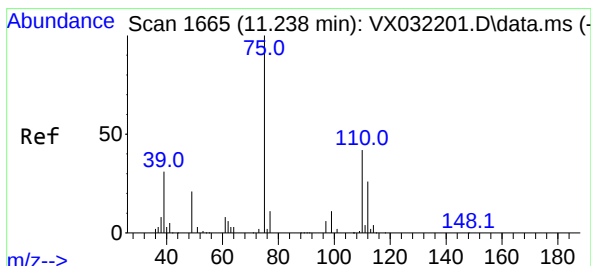
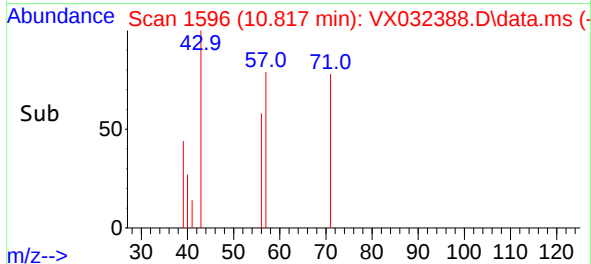
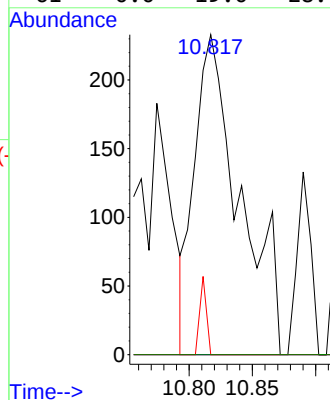
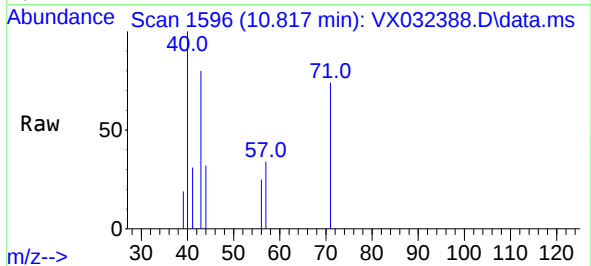




#74  
N-amy1 acetate  
Concen: 0.256 ug/l  
RT: 10.817 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

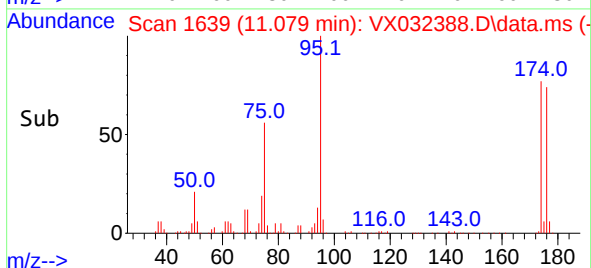
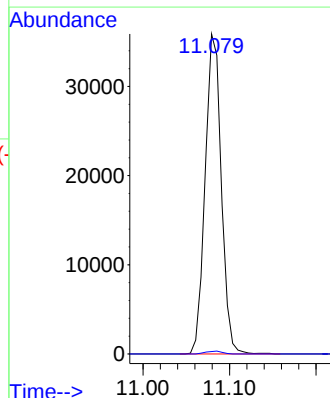
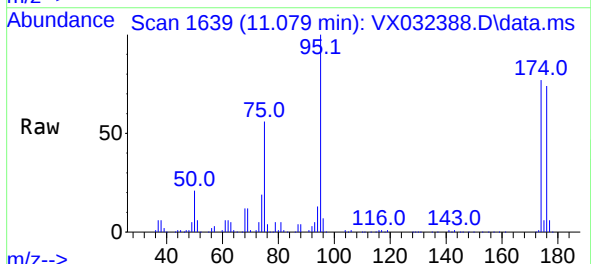
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP1-1024

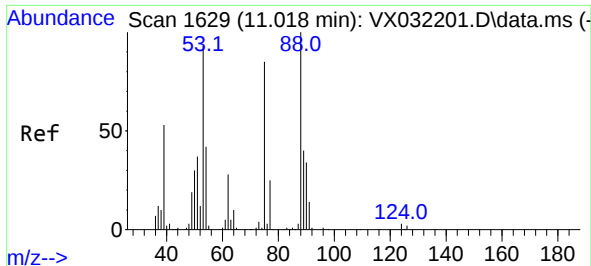
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 580   |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 33.9 50.9#  |
| 55 3.6      | 19.1 28.7#  |
| 61 0.0      | 19.0 28.4#  |



#76  
1,2,3-Trichloropropane  
Concen: 27.303 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX032388.D  
Acq: 26 Oct 2022 00:56

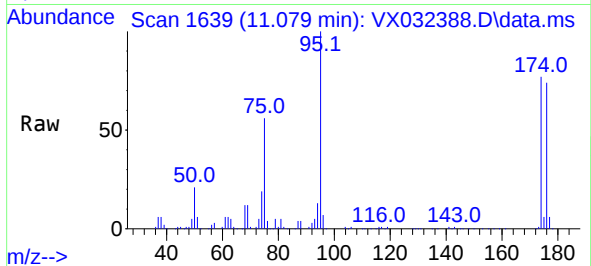
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 46513 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 0.9      | 16.0 47.9#  |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 83.803 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX032388.D  
 Acq: 26 Oct 2022 00:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP1-1024



Tgt Ion: 75 Resp: 46513  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 87.8 131.8#  
 89 0.0 37.8 56.8#

