

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111021\  
 Data File : VU045693.D  
 Acq On : 10 Nov 2021 17:17  
 Operator : SY/MD  
 Sample : M4540-05  
 Misc : 5.09g/10mL/100uL/5.00mL/MSVOA\_U/MEOH  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TP-3

Quant Time: Nov 10 17:53:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

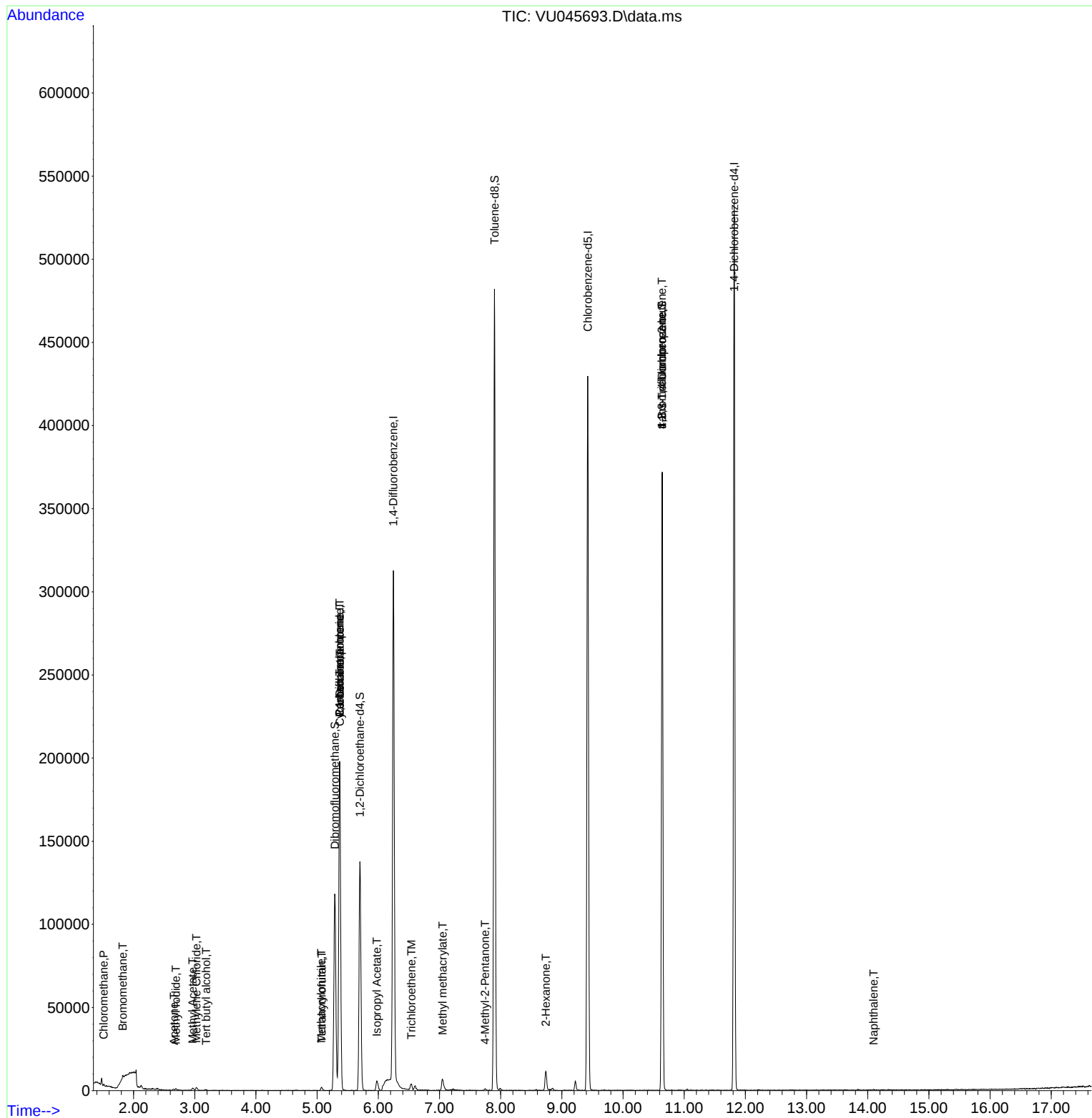
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.369          | 168  | 132790              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.247          | 114  | 250792              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.423          | 117  | 251650              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.819         | 152  | 132765              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.700          | 65   | 107394              | 54.003 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 108.000% |        |        |          |
| 35) Dibromofluoromethane      | 5.288          | 113  | 80602               | 48.138 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 96.280%  |        |        |          |
| 50) Toluene-d8                | 7.899          | 98   | 320810              | 51.525 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 103.060% |        |        |          |
| 62) 4-Bromofluorobenzene      | 10.639         | 95   | 128013              | 51.273 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 102.540% |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 3) Chloromethane              | 1.514          | 50   | 629                 | 0.319  | ug/l   | 96       |
| 5) Bromomethane               | 1.822          | 94   | 639                 | 0.597  | ug/l   | 85       |
| 10) Methyl Iodide             | 2.691          | 142  | 1064                | 0.549  | ug/l # | 82       |
| 11) Tert butyl alcohol        | 3.186          | 59   | 163                 | 0.414  | ug/l # | 72       |
| 16) Acetone                   | 2.662          | 43   | 894                 | 0.883  | ug/l # | 42       |
| 18) Methyl Acetate            | 2.964          | 43   | 2287                | 0.663  | ug/l # | 73       |
| 20) Methylene Chloride        | 3.025          | 84   | 973                 | 0.553  | ug/l   | 89       |
| 29) Tetrahydrofuran           | 5.076          | 42   | 1338                | 1.558  | ug/l # | 79       |
| 31) Cyclohexane               | 5.372          | 56   | 2875                | 0.991  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.369          | 75   | 12455               | 5.093  | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 5.369          | 117  | 14581               | 5.914  | ug/l # | 15       |
| 41) Methacrylonitrile         | 5.070          | 41   | 624                 | 0.420  | ug/l # | 39       |
| 43) Isopropyl Acetate         | 5.977          | 43   | 2643                | 0.615  | ug/l # | 59       |
| 44) Trichloroethene           | 6.539          | 130  | 1097                | 0.633  | ug/l   | 94       |
| 48) Methyl methacrylate       | 7.050          | 41   | 792                 | 0.400  | ug/l # | 24       |
| 51) 4-Methyl-2-Pentanone      | 7.745          | 43   | 654                 | 0.231  | ug/l # | 33       |
| 59) 2-Hexanone                | 8.739          | 43   | 2283                | 8.433  | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 10.639         | 75   | 67895               | 16.863 | ug/l # | 42       |
| 81) trans-1,4-Dichloro-2-b... | 10.639         | 75   | 67895               | 54.929 | ug/l # | 12       |
| 95) Naphthalene               | 14.095         | 128  | 410                 | 1.066  | ug/l # | 69       |
| -----                         |                |      |                     |        |        |          |

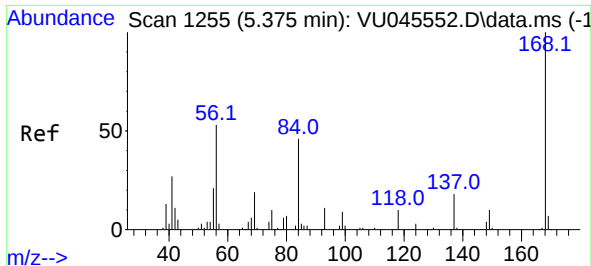
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111021\  
Data File : VU045693.D  
Acq On : 10 Nov 2021 17:17  
Operator : SY/MD  
Sample : M4540-05  
Misc : 5.09g/10mL/100uL/5.00mL/MSVOA\_U/MEOH  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

Quant Time: Nov 10 17:53:35 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 05 13:35:16 2021  
Response via : Initial Calibration

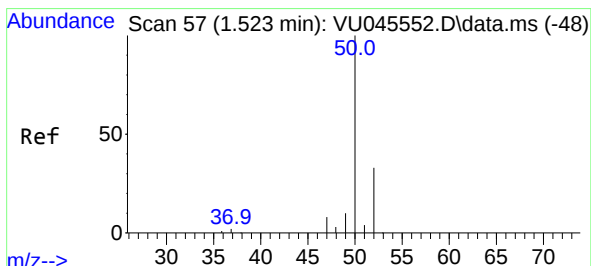
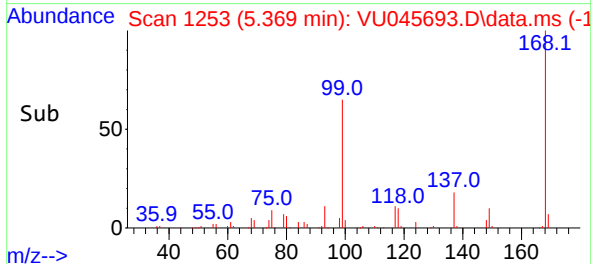
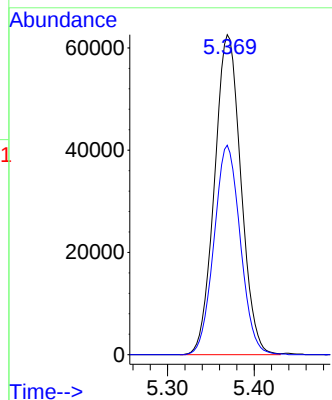
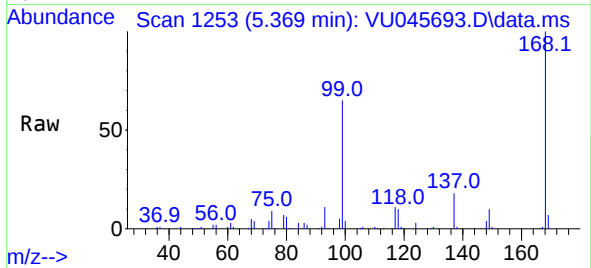




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.369 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

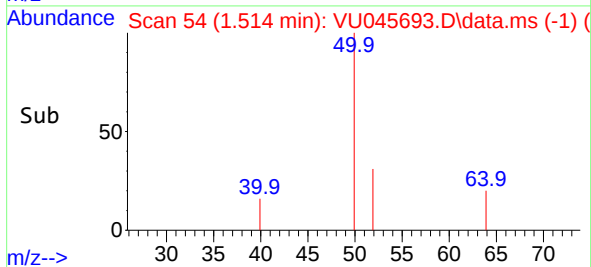
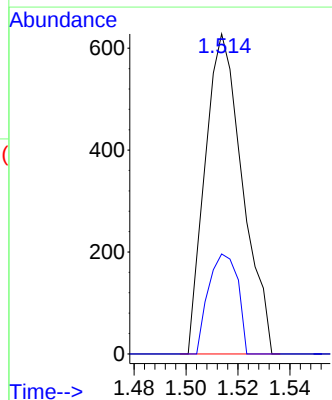
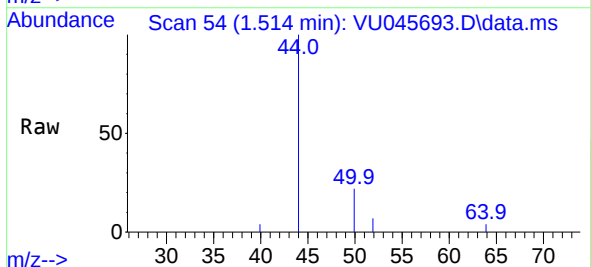
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

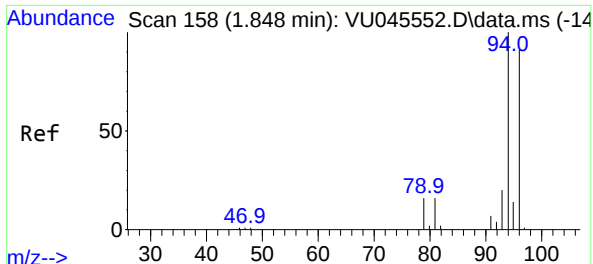
Tgt Ion:168 Resp: 132790  
Ion Ratio Lower Upper  
168 100  
99 65.4 51.0 76.6



#3  
Chloromethane  
Concen: 0.319 ug/l  
RT: 1.514 min Scan# 54  
Delta R.T. -0.010 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 50 Resp: 629  
Ion Ratio Lower Upper  
50 100  
52 31.2 26.6 40.0

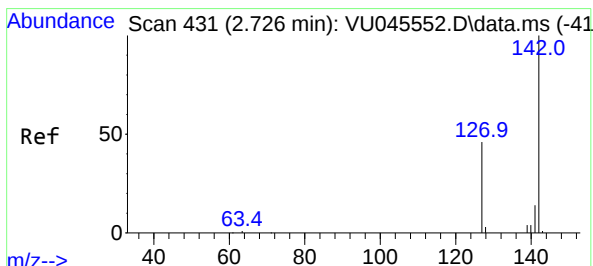
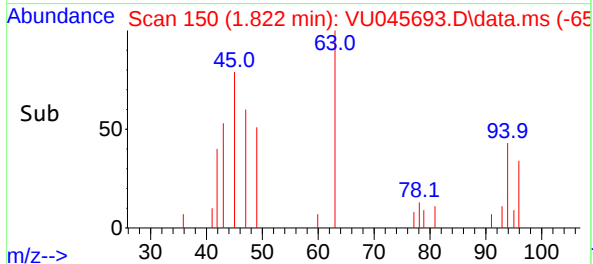
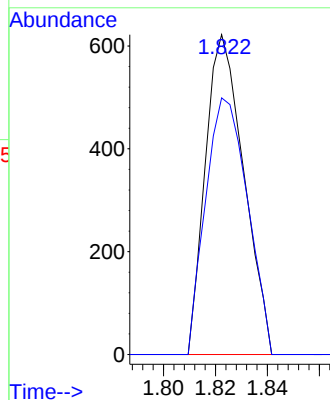
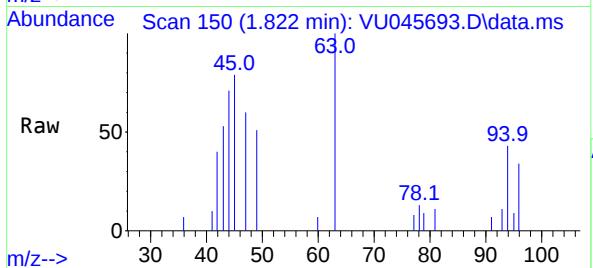




#5  
Bromomethane  
Concen: 0.597 ug/l  
RT: 1.822 min Scan# 11  
Delta R.T. -0.026 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

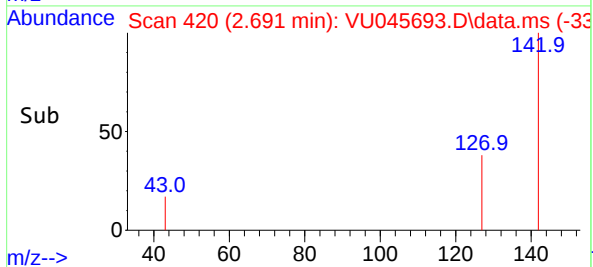
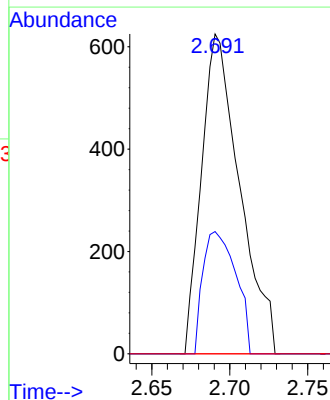
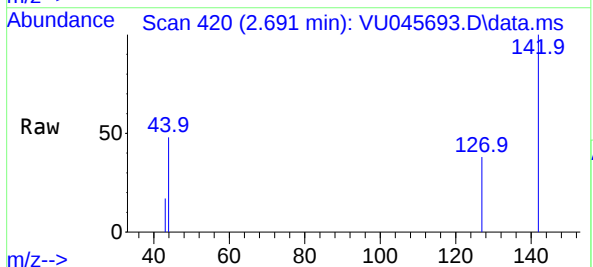
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

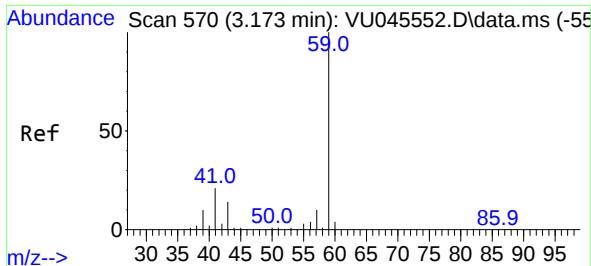
Tgt Ion: 94 Resp: 639  
Ion Ratio Lower Upper  
94 100  
96 80.2 75.4 113.2



#10  
Methyl Iodide  
Concen: 0.549 ug/l  
RT: 2.691 min Scan# 420  
Delta R.T. -0.035 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 142 Resp: 1064  
Ion Ratio Lower Upper  
142 100  
127 32.9 32.2 48.2  
141 0.0 11.3 16.9#

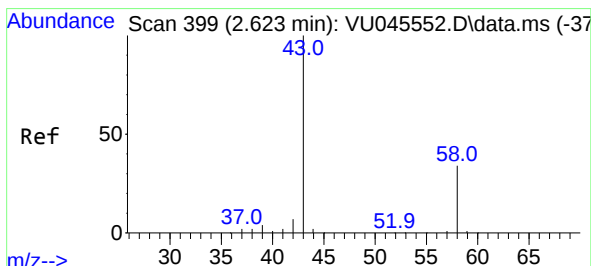
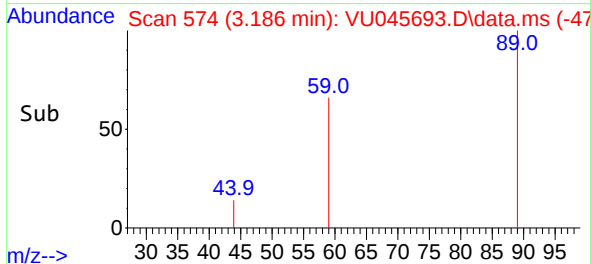
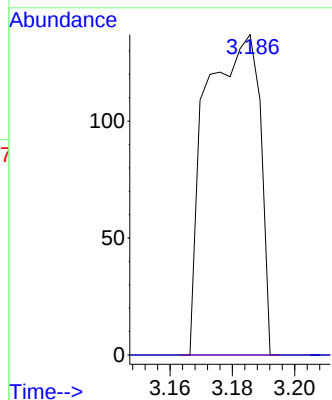
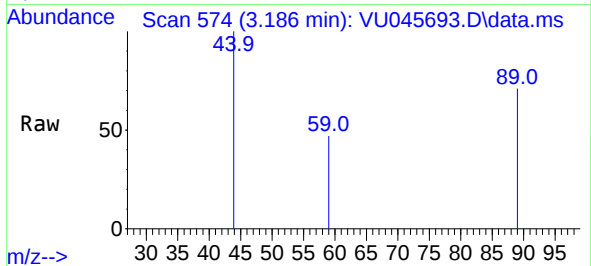




#11  
Tert butyl alcohol  
Concen: 0.414 ug/l  
RT: 3.186 min Scan# 51  
Delta R.T. 0.013 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

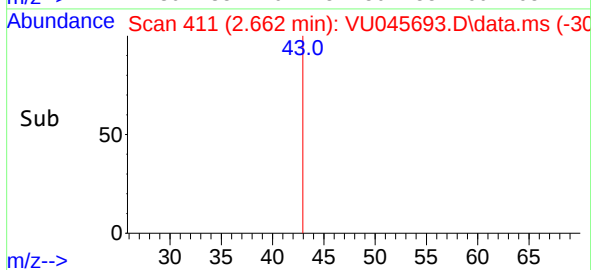
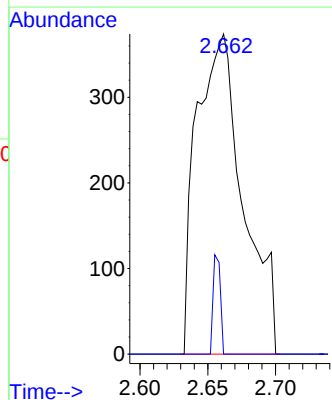
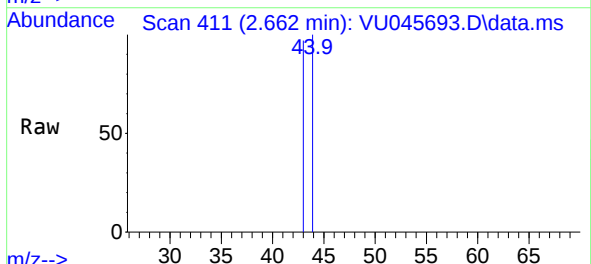
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

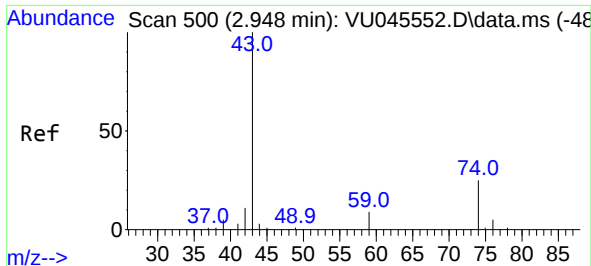
Tgt Ion: 59 Resp: 163  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#16  
Acetone  
Concen: 0.883 ug/l  
RT: 2.662 min Scan# 411  
Delta R.T. 0.039 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 43 Resp: 894  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 39.2#

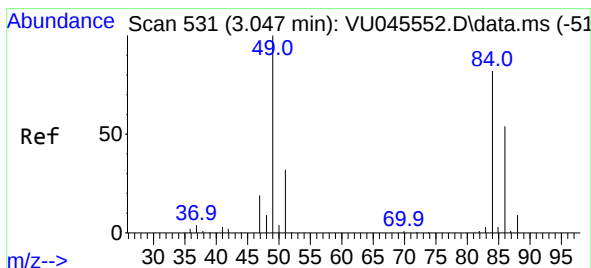
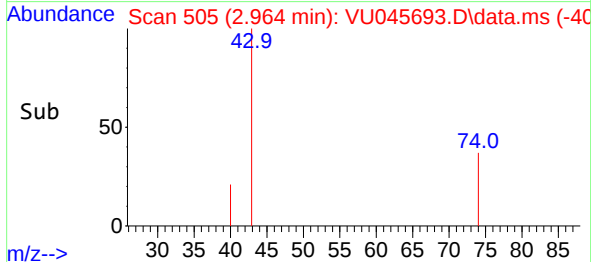
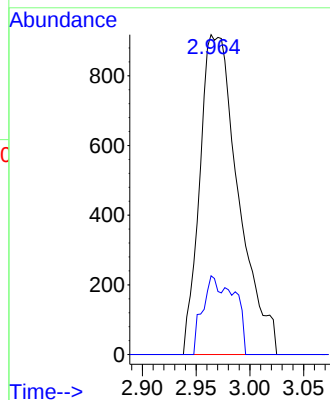
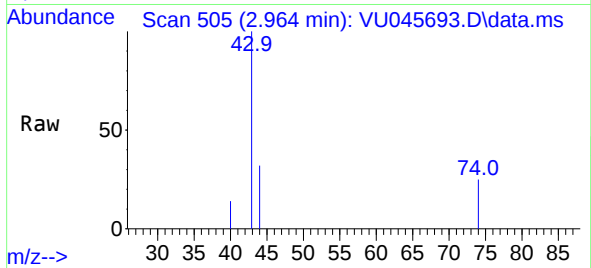




#18  
Methyl Acetate  
Concen: 0.663 ug/l  
RT: 2.964 min Scan# 500  
Delta R.T. 0.016 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

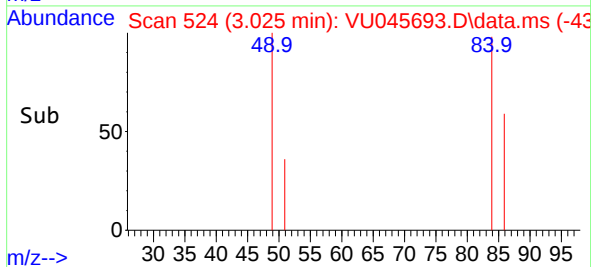
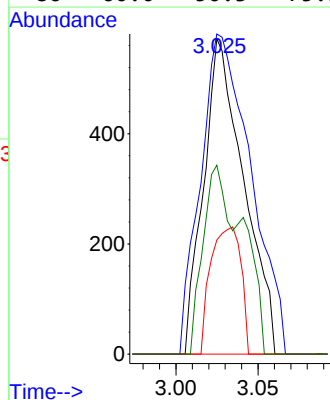
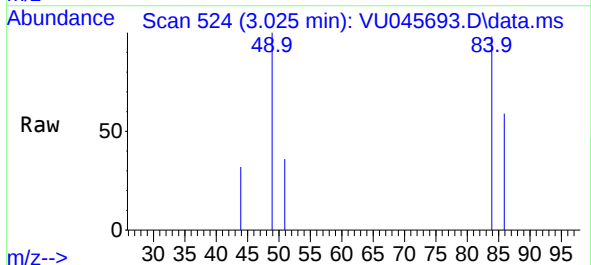
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

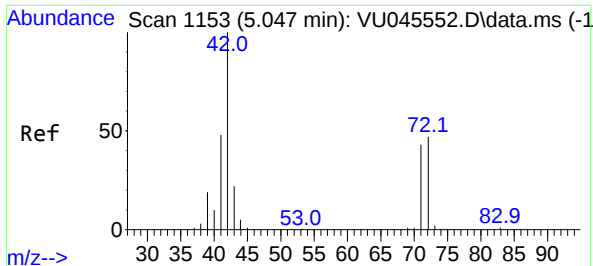
Tgt Ion: 43 Resp: 2287  
Ion Ratio Lower Upper  
43 100  
74 11.4 20.2 30.2#



#20  
Methylene Chloride  
Concen: 0.553 ug/l  
RT: 3.025 min Scan# 524  
Delta R.T. -0.022 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 84 Resp: 973  
Ion Ratio Lower Upper  
84 100  
49 101.6 96.4 144.6  
51 36.2 30.5 45.7  
86 60.0 50.3 75.5





#29

Tetrahydrofuran

Concen: 1.558 ug/l

RT: 5.076 min Scan# 1153

Delta R.T. 0.029 min

Lab File: VU045693.D

Acq: 10 Nov 2021 17:17

Instrument :

MSVOA\_U

ClientSampleId :

TP-3

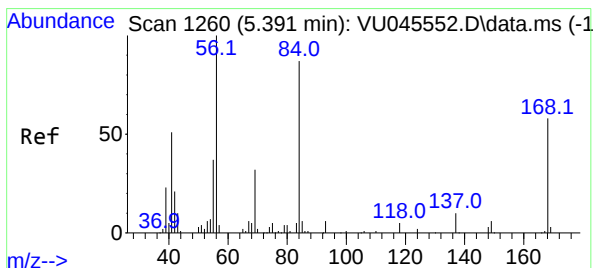
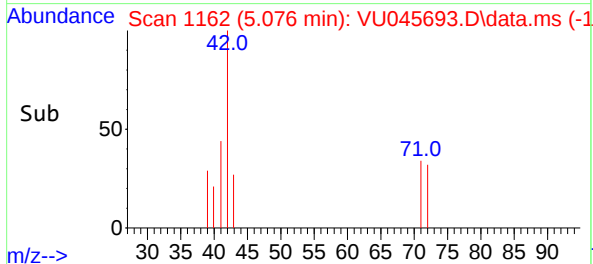
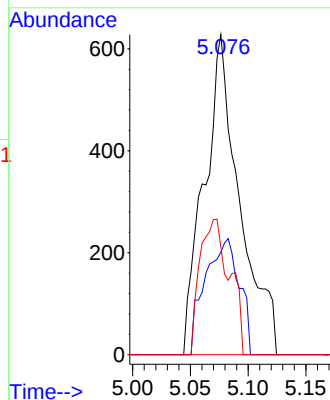
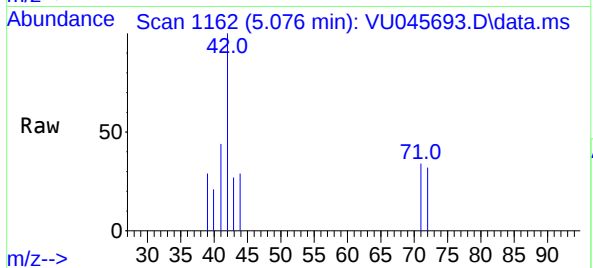
Tgt Ion: 42 Resp: 1338

Ion Ratio Lower Upper

42 100

72 34.8 38.2 57.4#

71 29.0 35.4 53.2#



#31

Cyclohexane

Concen: 0.991 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.019 min

Lab File: VU045693.D

Acq: 10 Nov 2021 17:17

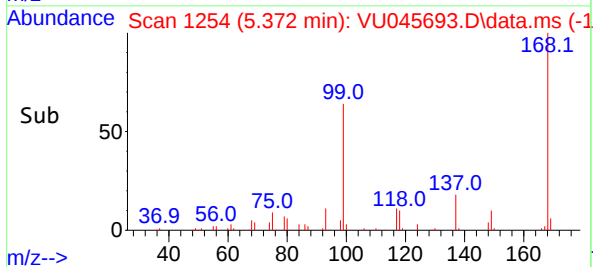
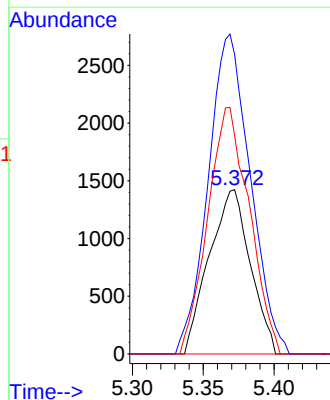
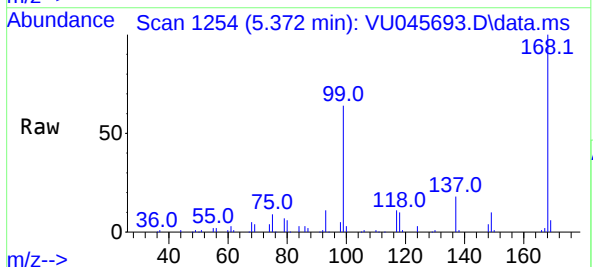
Tgt Ion: 56 Resp: 2875

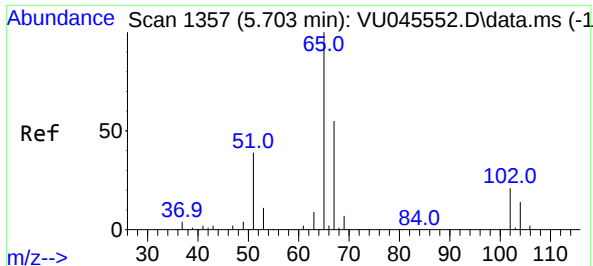
Ion Ratio Lower Upper

56 100

69 173.7 26.4 39.6#

84 133.0 68.4 102.6#

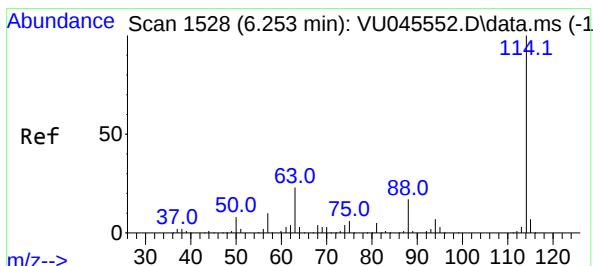
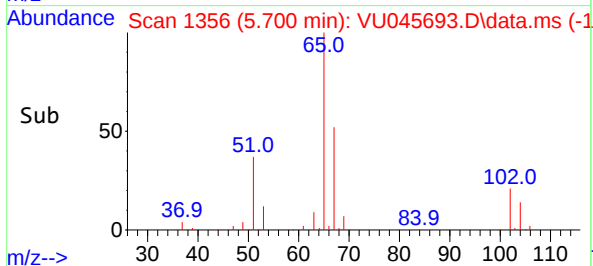
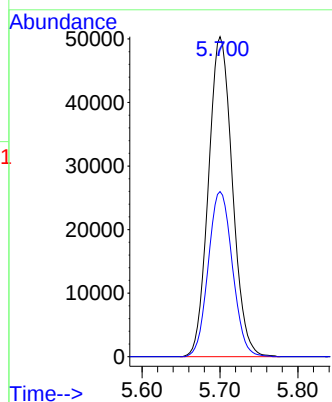
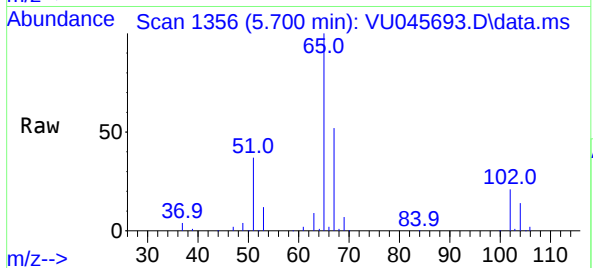




#33  
1,2-Dichloroethane-d4  
Concen: 54.003 ug/l  
RT: 5.700 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

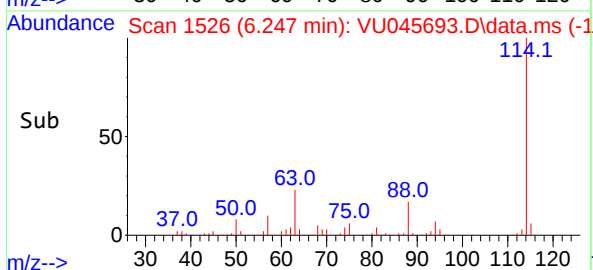
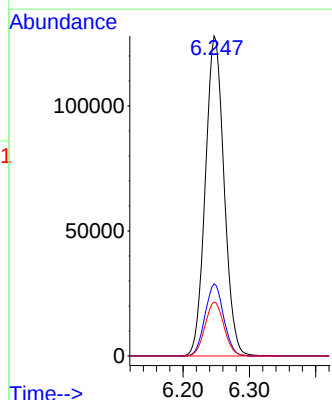
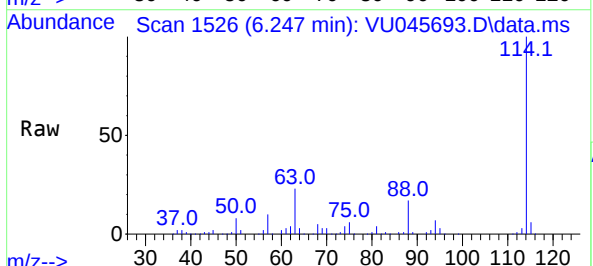
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

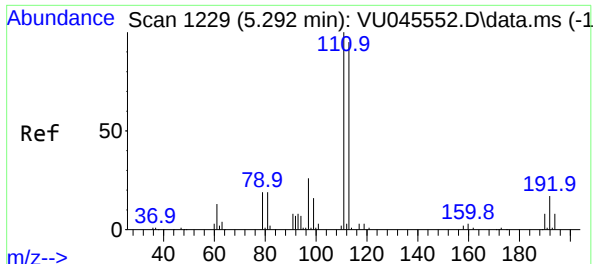
Tgt Ion: 65 Resp: 107394  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 105.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.247 min Scan# 1526  
Delta R.T. -0.006 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 114 Resp: 250792  
Ion Ratio Lower Upper  
114 100  
63 22.6 0.0 45.6  
88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 48.138 ug/l

RT: 5.288 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU045693.D

Acq: 10 Nov 2021 17:17

Instrument :

MSVOA\_U

ClientSampleId :

TP-3

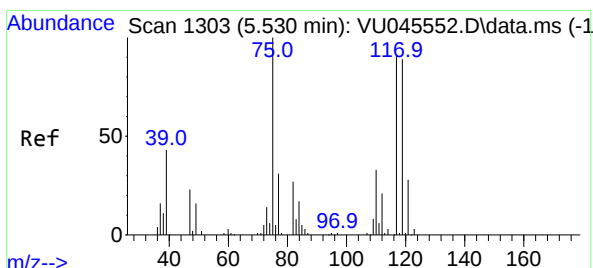
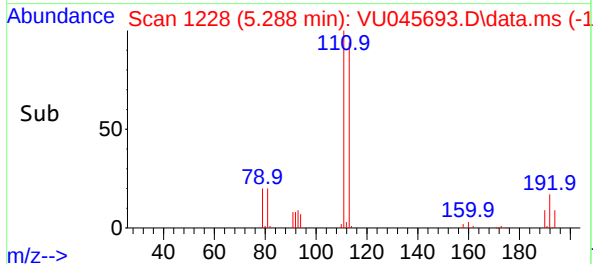
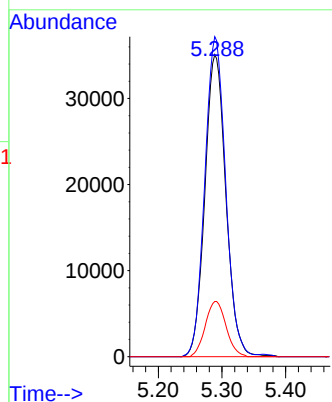
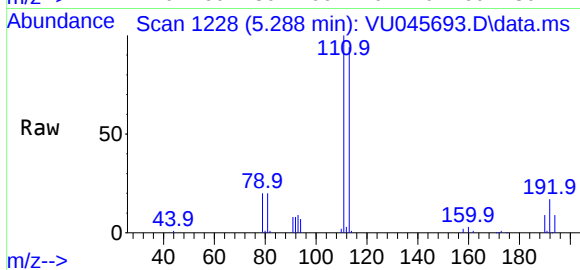
Tgt Ion:113 Resp: 80602

Ion Ratio Lower Upper

113 100

111 104.9 82.8 124.2

192 18.1 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.093 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.161 min

Lab File: VU045693.D

Acq: 10 Nov 2021 17:17

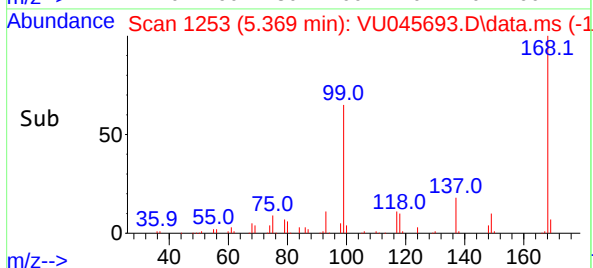
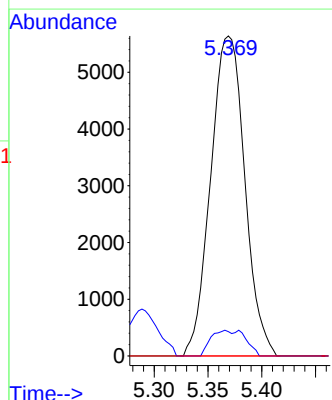
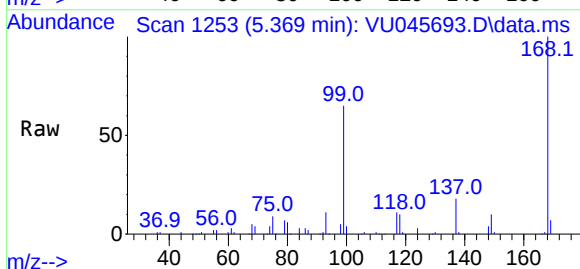
Tgt Ion: 75 Resp: 12455

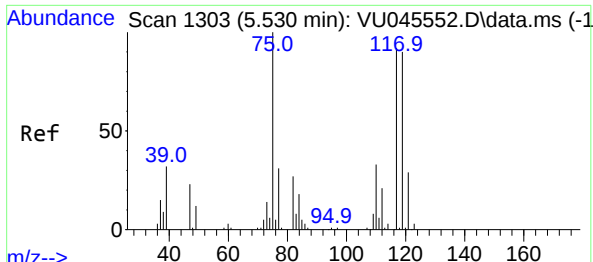
Ion Ratio Lower Upper

75 100

110 4.9 16.7 50.0#

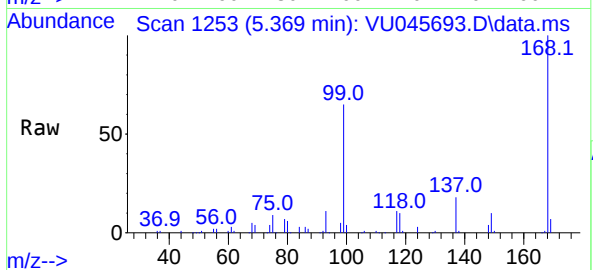
77 0.0 25.0 37.4#



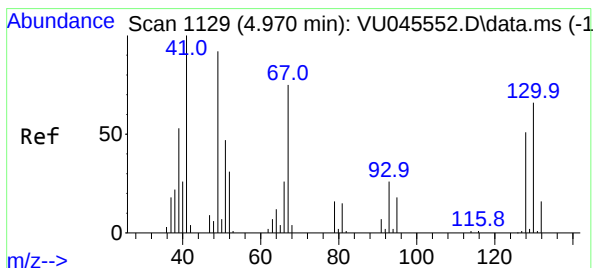
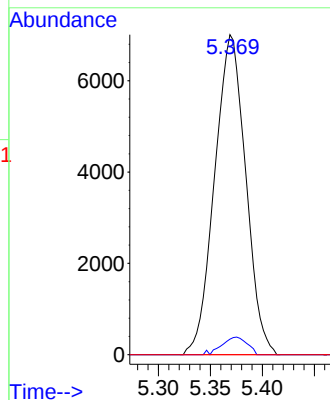
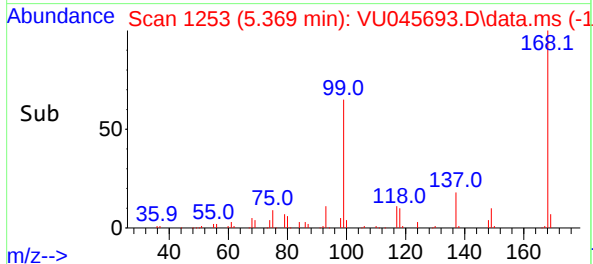


#38  
Carbon Tetrachloride  
Concen: 5.914 ug/l  
RT: 5.369 min Scan# 1160  
Delta R.T. -0.161 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

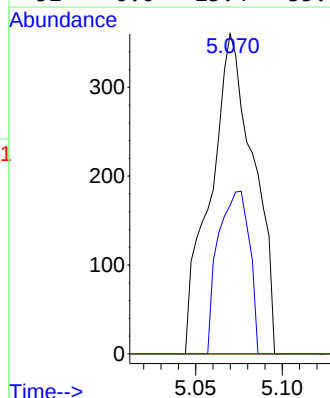
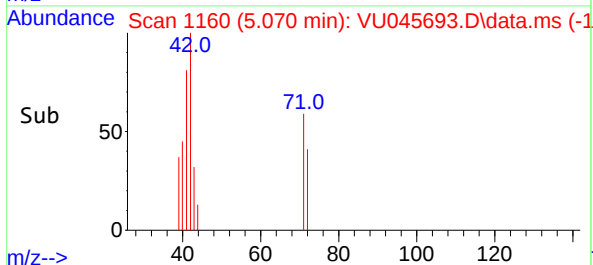
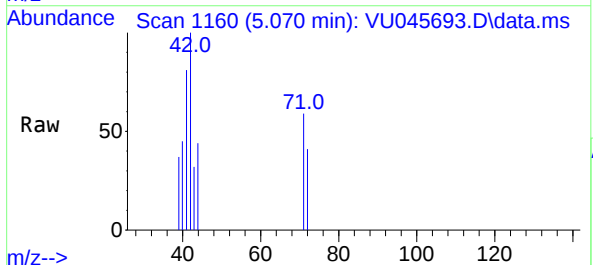


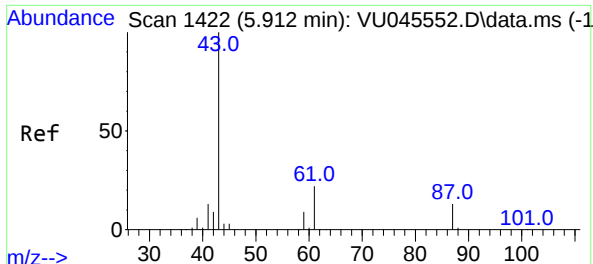
Tgt Ion:117 Resp: 14581  
Ion Ratio Lower Upper  
117 100  
119 4.9 77.4 116.0#  
121 0.0 24.8 37.2#



#41  
Methacrylonitrile  
Concen: 0.420 ug/l  
RT: 5.070 min Scan# 1160  
Delta R.T. 0.100 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 41 Resp: 624  
Ion Ratio Lower Upper  
41 100  
39 36.5 43.4 65.0#  
67 0.0 61.0 91.4#  
52 0.0 23.4 35.0#

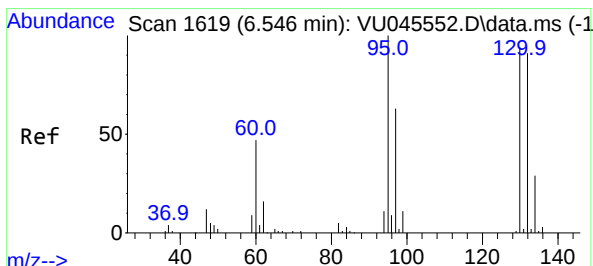
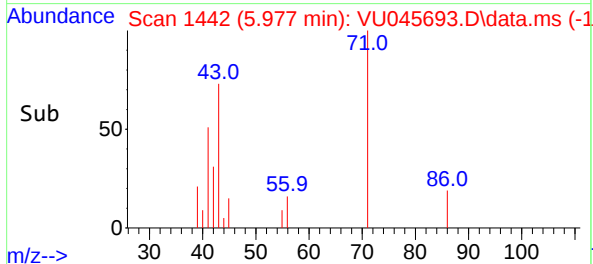
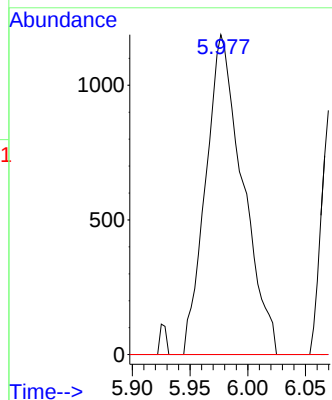
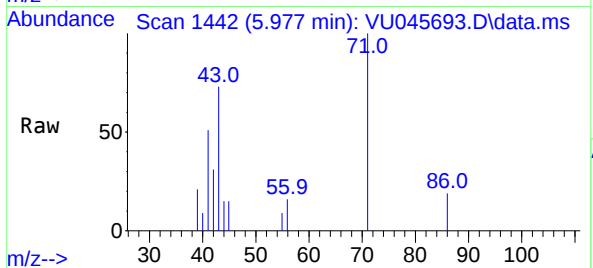




#43  
Isopropyl Acetate  
Concen: 0.615 ug/l  
RT: 5.977 min Scan# 1422  
Delta R.T. 0.064 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

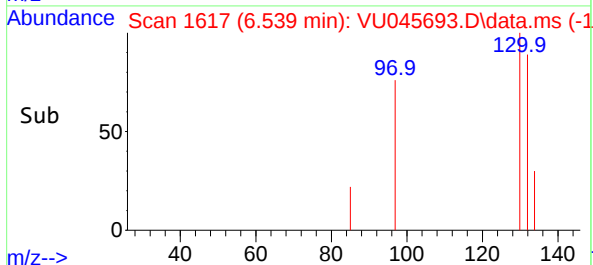
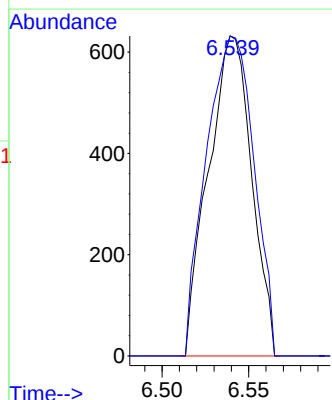
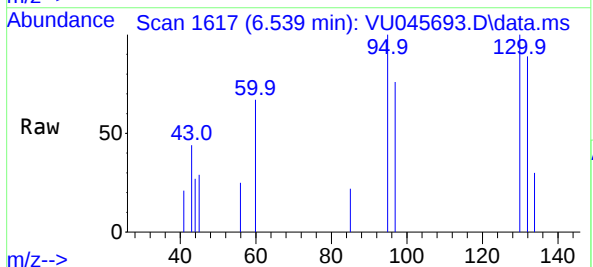
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

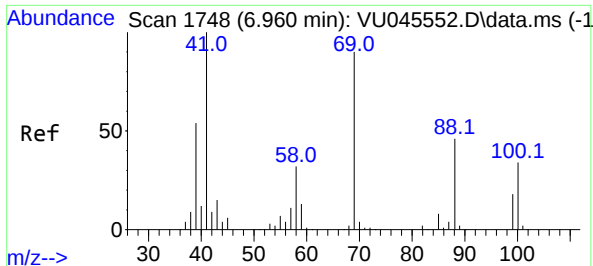
Tgt Ion: 43 Resp: 2643  
Ion Ratio Lower Upper  
43 100  
61 0.0 16.9 25.3#  
87 0.0 11.0 16.4#



#44  
Trichloroethene  
Concen: 0.633 ug/l  
RT: 6.539 min Scan# 1617  
Delta R.T. -0.006 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 130 Resp: 1097  
Ion Ratio Lower Upper  
130 100  
95 100.0 0.0 211.4

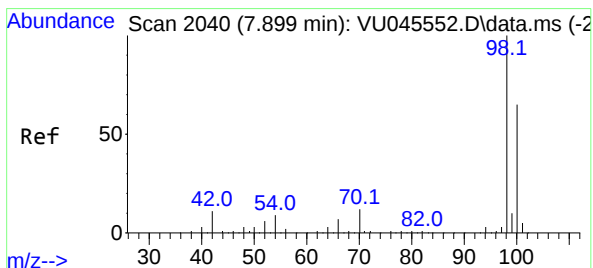
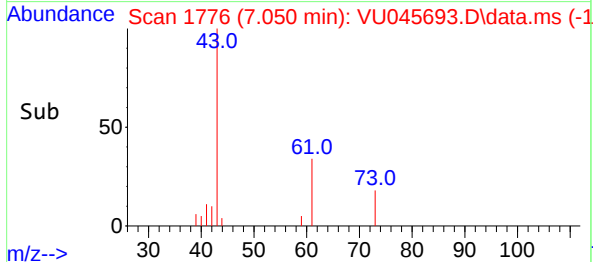
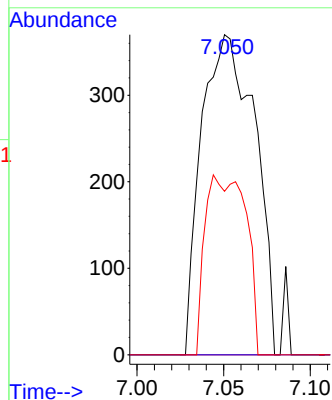
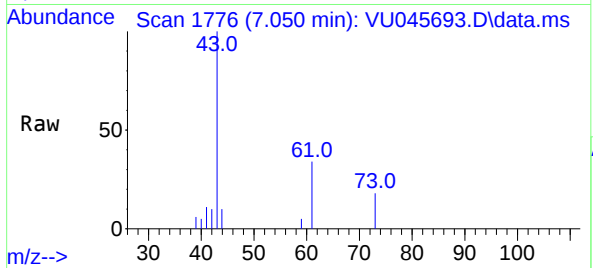




#48  
Methyl methacrylate  
Concen: 0.400 ug/l  
RT: 7.050 min Scan# 1776  
Delta R.T. 0.090 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

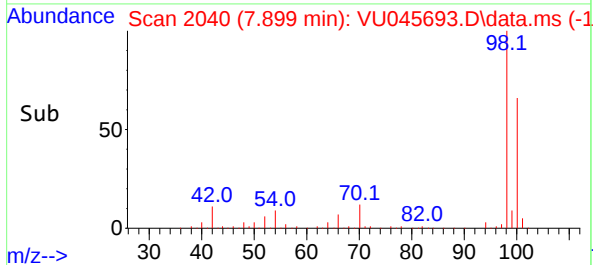
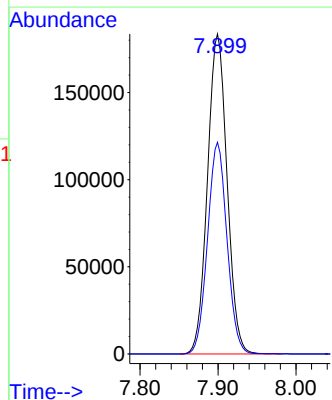
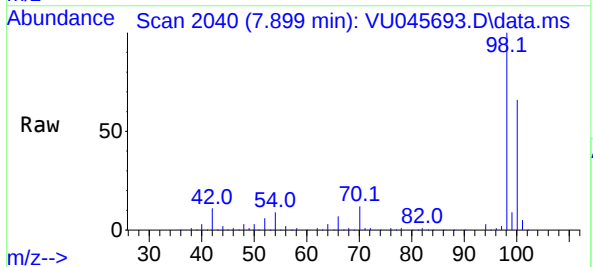
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

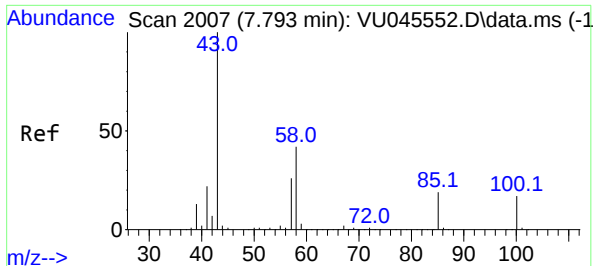
Tgt Ion: 41 Resp: 792  
Ion Ratio Lower Upper  
41 100  
69 0.0 70.2 105.2#  
39 21.8 43.9 65.9#



#50  
Toluene-d8  
Concen: 51.525 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. 0.000 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 98 Resp: 320810  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.231 ug/l

RT: 7.745 min Scan# 11

Delta R.T. -0.048 min

Lab File: VU045693.D

Acq: 10 Nov 2021 17:17

Instrument :

MSVOA\_U

ClientSampleId :

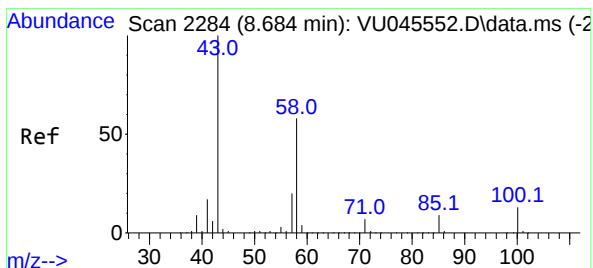
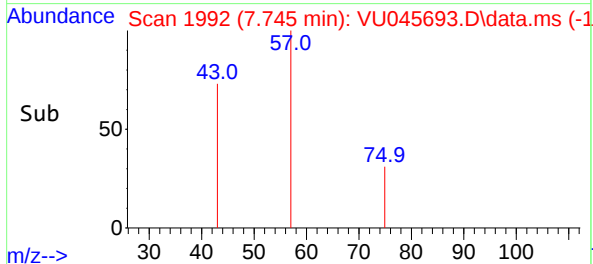
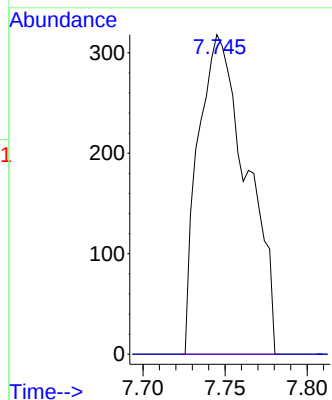
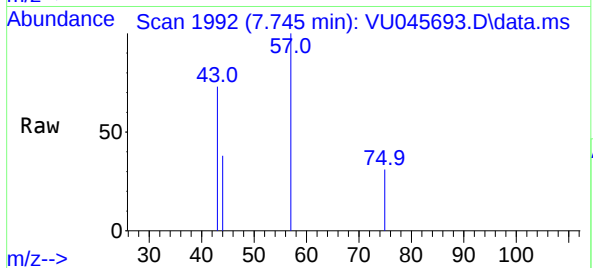
TP-3

Tgt Ion: 43 Resp: 654

Ion Ratio Lower Upper

43 100

58 0.0 33.8 50.8#



#59

2-Hexanone

Concen: 8.433 ug/l

RT: 8.739 min Scan# 2301

Delta R.T. 0.055 min

Lab File: VU045693.D

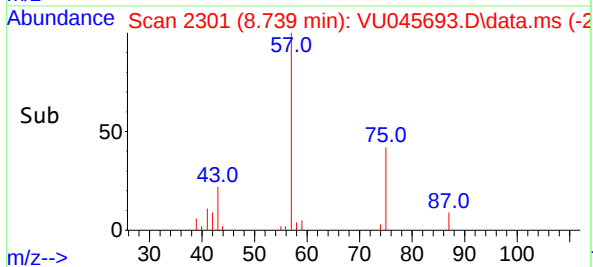
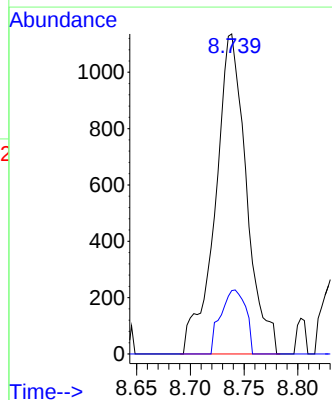
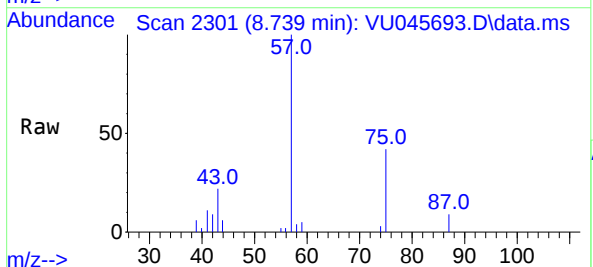
Acq: 10 Nov 2021 17:17

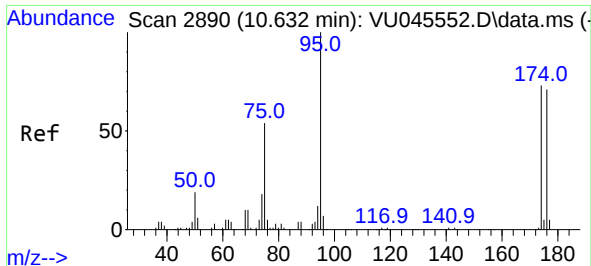
Tgt Ion: 43 Resp: 2283

Ion Ratio Lower Upper

43 100

58 16.1 29.5 88.6#

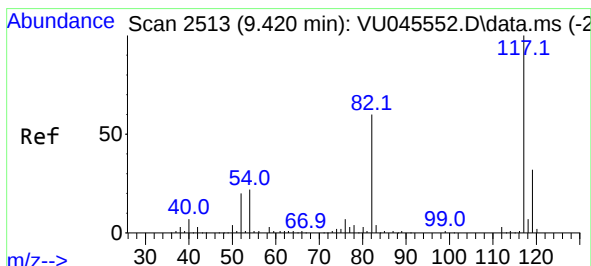
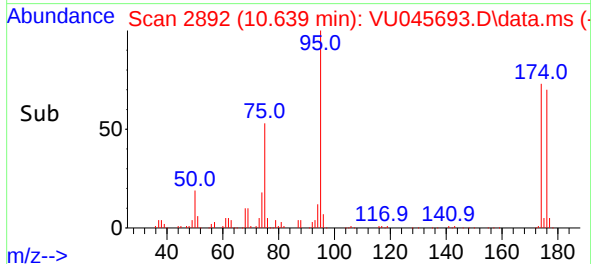
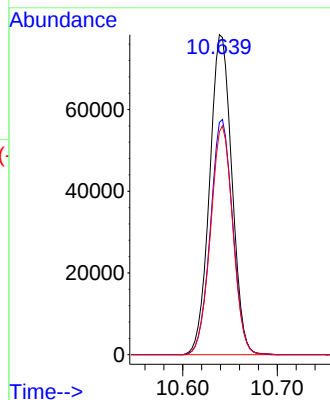
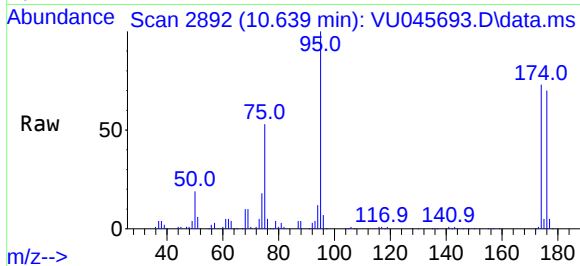




#62  
4-Bromofluorobenzene  
Concen: 51.273 ug/l  
RT: 10.639 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

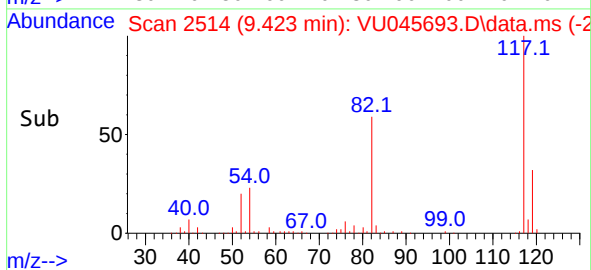
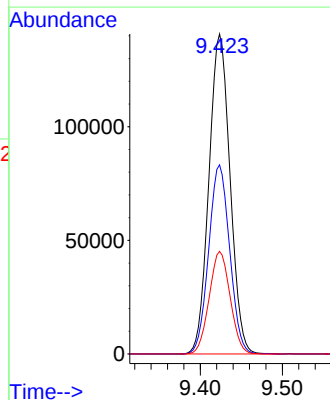
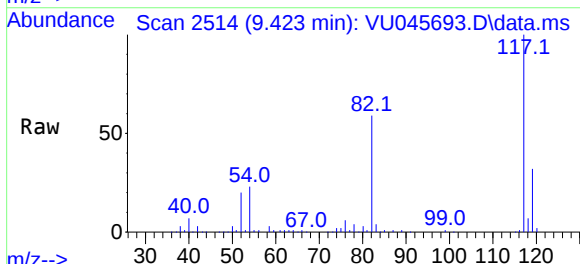
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

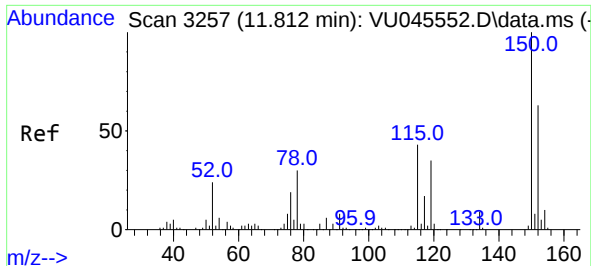
Tgt Ion: 95 Resp: 128013  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 141.8  
176 71.4 0.0 138.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.423 min Scan# 2514  
Delta R.T. 0.003 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 117 Resp: 251650  
Ion Ratio Lower Upper  
117 100  
82 59.1 47.8 71.8  
119 32.1 25.8 38.8

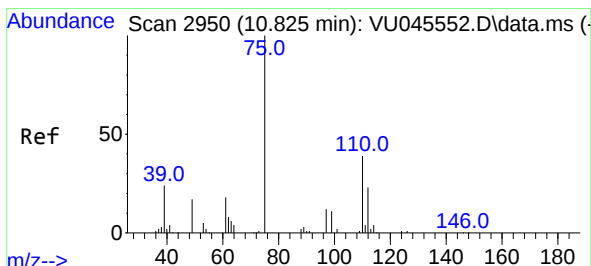
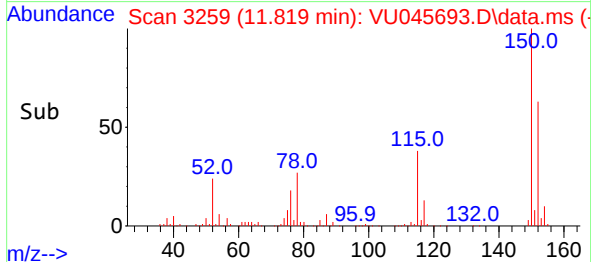
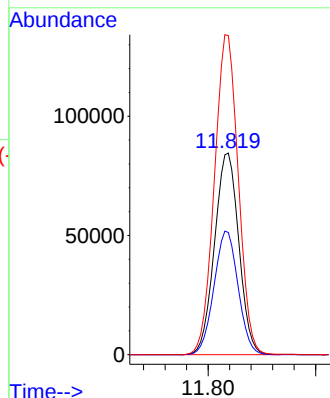
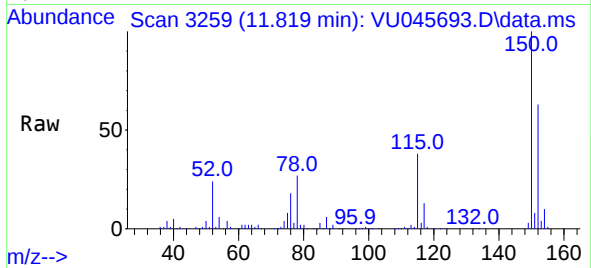




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.819 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

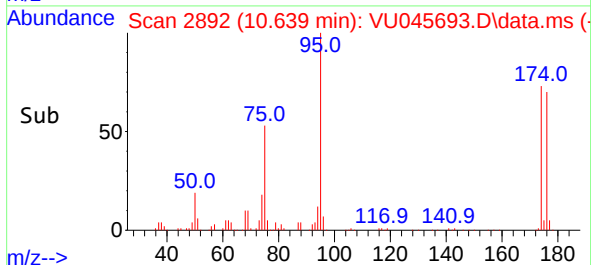
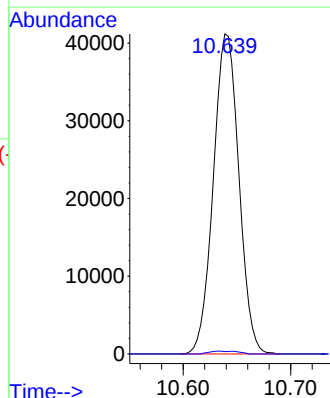
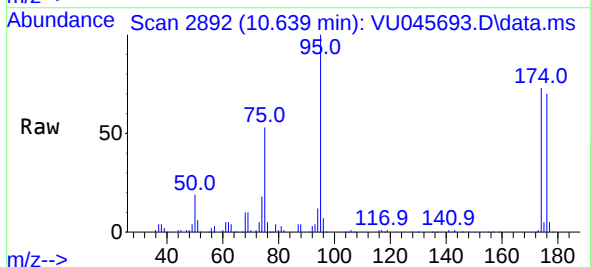
Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

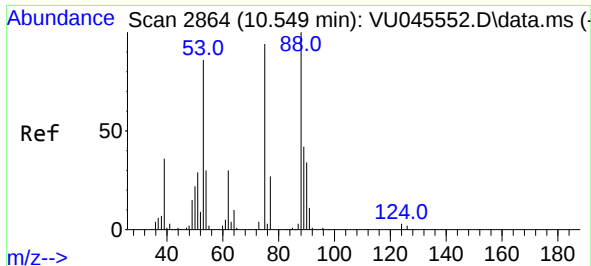
Tgt Ion:152 Resp: 132765  
Ion Ratio Lower Upper  
152 100  
115 60.8 42.7 128.1  
150 156.1 0.0 346.8



#76  
1,2,3-Trichloropropane  
Concen: 16.863 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.186 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion: 75 Resp: 67895  
Ion Ratio Lower Upper  
75 100  
77 0.6 17.1 51.3#

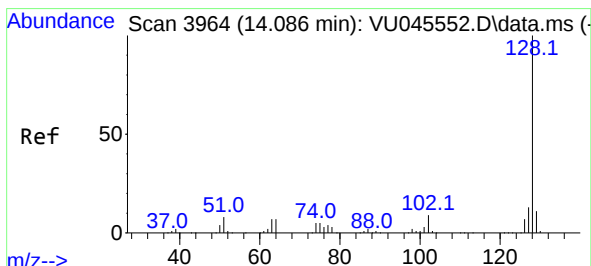
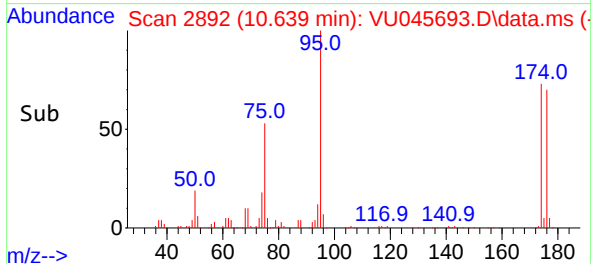
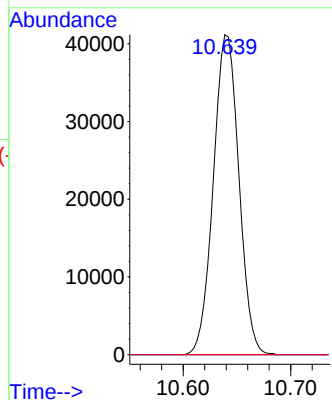
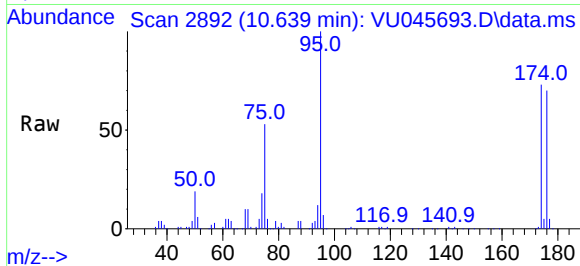




#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.929 ug/l  
RT: 10.639 min Scan# 21  
Delta R.T. 0.090 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Instrument :  
MSVOA\_U  
ClientSampleId :  
TP-3

Tgt Ion: 75 Resp: 67895  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#



#95  
Naphthalene  
Concen: 1.066 ug/l  
RT: 14.095 min Scan# 3967  
Delta R.T. 0.009 min  
Lab File: VU045693.D  
Acq: 10 Nov 2021 17:17

Tgt Ion:128 Resp: 410  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 0.0 8.6 13.0#

