

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU110821\  
 Data File : VU045640.D  
 Acq On : 09 Nov 2021 01:31  
 Operator : SY/MD  
 Sample : M4504-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RW8-MW01S-20211102

Quant Time: Nov 09 11:15:40 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

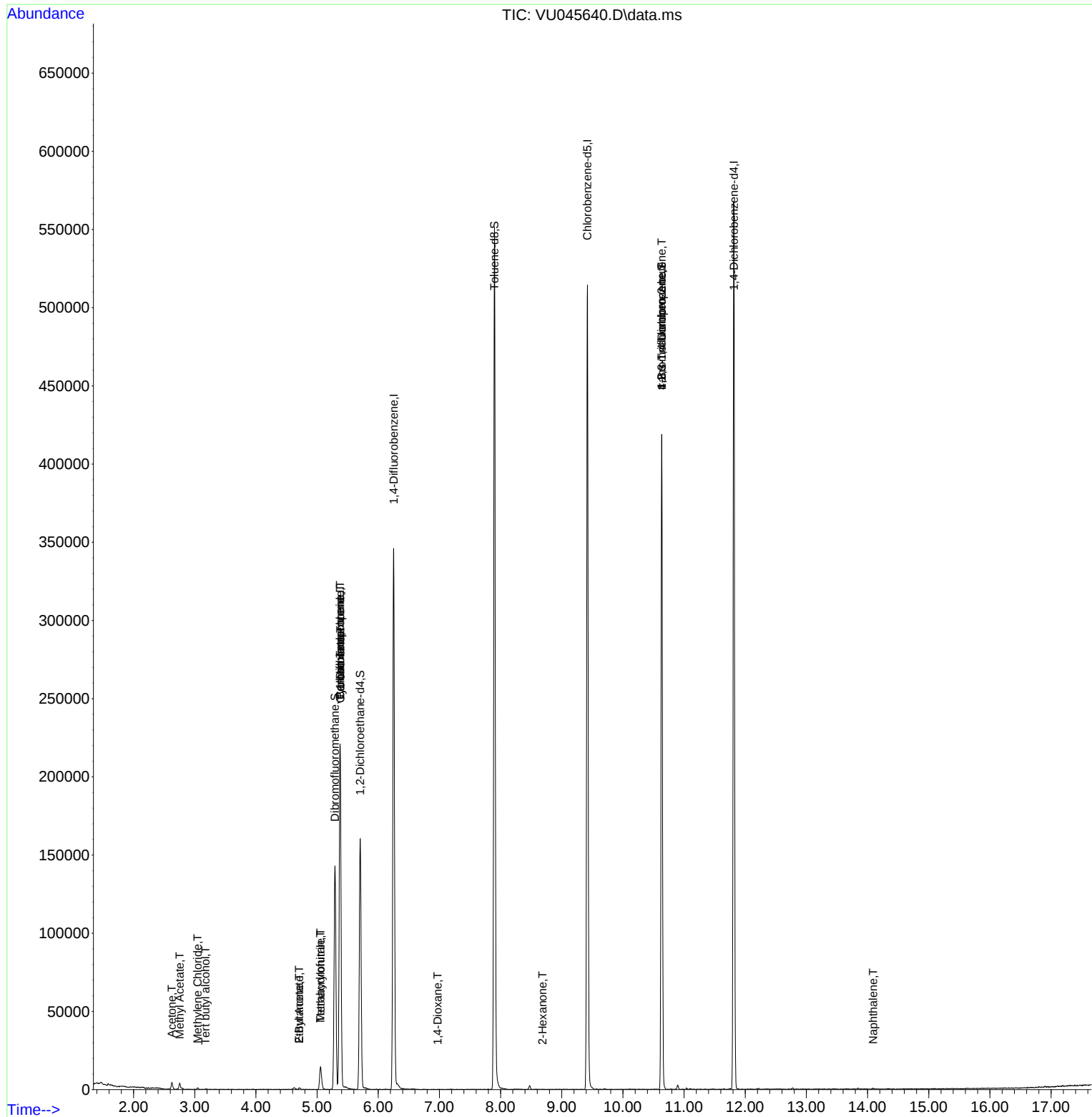
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.375  | 168            | 149065   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.253  | 114            | 281858   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.420  | 117            | 280284   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.815 | 152            | 140960   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65             | 119504   | 53.531     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | = 107.060% |        |          |
| 35) Dibromofluoromethane      | 5.292  | 113            | 93060    | 49.452     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 98.900%  |        |          |
| 50) Toluene-d8                | 7.899  | 98             | 365048   | 52.168     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | = 104.340% |        |          |
| 62) 4-Bromofluorobenzene      | 10.635 | 95             | 139900   | 49.858     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 99.720%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            |        | Qvalue   |
| 11) Tert butyl alcohol        | 3.176  | 59             | 132      | 0.299      | ug/l # | 72       |
| 16) Acetone                   | 2.626  | 43             | 5195     | 4.571      | ug/l   | 89       |
| 18) Methyl Acetate            | 2.755  | 43             | 1088     | 0.281      | ug/l # | 50       |
| 20) Methylene Chloride        | 3.047  | 84             | 442      | 0.224      | ug/l # | 83       |
| 25) 2-Butanone                | 4.706  | 43             | 733      | 0.465      | ug/l # | 89       |
| 29) Tetrahydrofuran           | 5.054  | 42             | 10316    | 10.700     | ug/l   | 98       |
| 31) Cyclohexane               | 5.378  | 56             | 3506     | 1.076      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.375  | 75             | 12763    | 4.644      | ug/l # | 46       |
| 37) Ethyl Acetate             | 4.706  | 43             | 733      | 0.232      | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 5.375  | 117            | 15992    | 5.772      | ug/l # | 15       |
| 41) Methacrylonitrile         | 5.057  | 41             | 5858     | 3.511      | ug/l # | 42       |
| 49) 1,4-Dioxane               | 6.970  | 88             | 20       | 0.350      | ug/l # | 13       |
| 59) 2-Hexanone                | 8.687  | 43             | 108      | 7.573      | ug/l # | 21       |
| 76) 1,2,3-Trichloropropane    | 10.635 | 75             | 73442    | 17.181     | ug/l # | 42       |
| 81) trans-1,4-Dichloro-2-b... | 10.635 | 75             | 73442    | 55.906     | ug/l # | 12       |
| 95) Naphthalene               | 14.092 | 128            | 720      | 1.091      | ug/l # | 69       |
| -----                         |        |                |          |            |        |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU110821\  
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Acq On : 09 Nov 2021 01:31  
Operator : SY/MD  
Sample : M4504-02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
RW8-MW01S-20211102

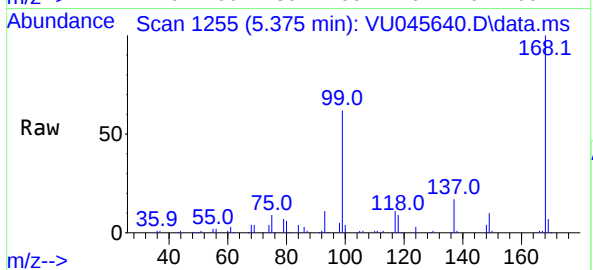
Quant Time: Nov 09 11:15:40 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 05 13:35:16 2021  
Response via : Initial Calibration



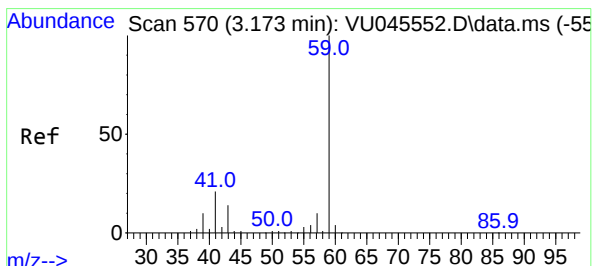
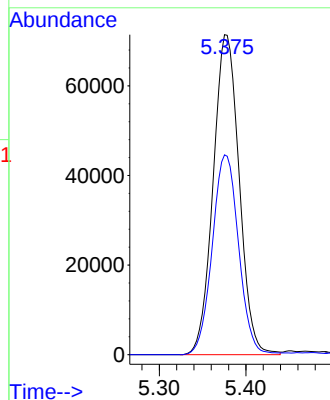
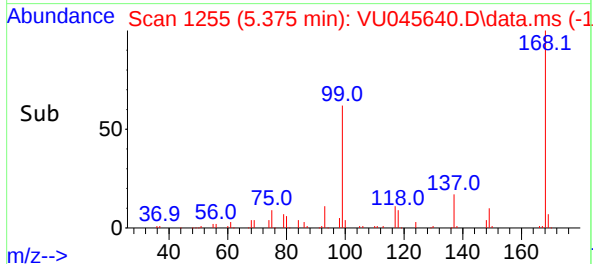


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.375 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
RW8-MW01S-20211102

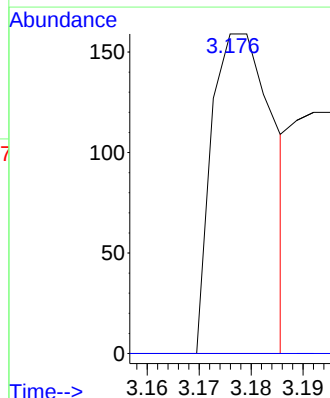
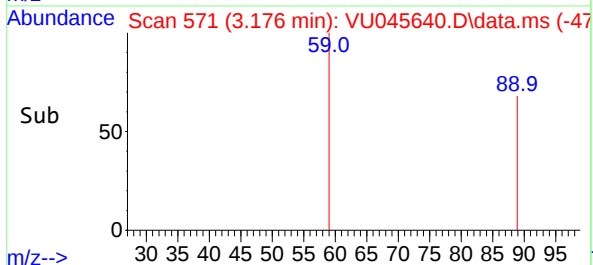
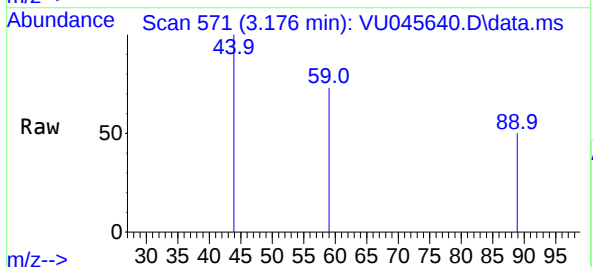


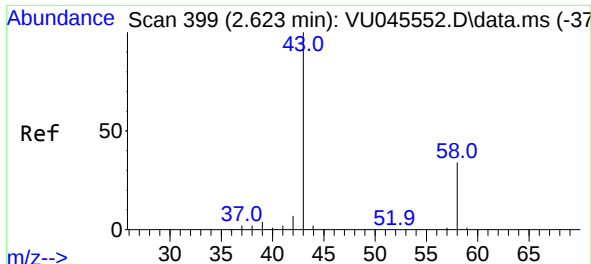
Tgt Ion:168 Resp: 149065  
Ion Ratio Lower Upper  
168 100  
99 62.5 51.0 76.6



#11  
Tert butyl alcohol  
Concen: 0.299 ug/l  
RT: 3.176 min Scan# 571  
Delta R.T. 0.003 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 59 Resp: 132  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

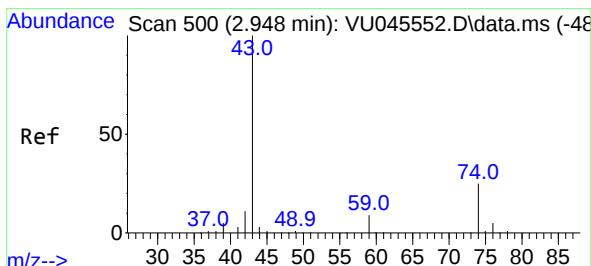
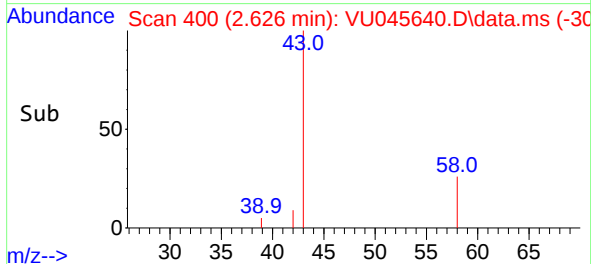
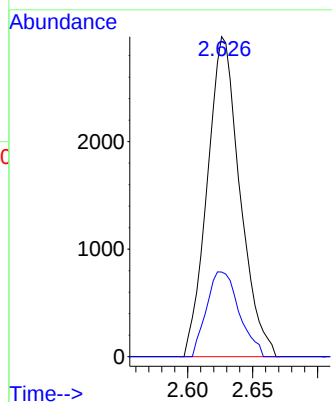
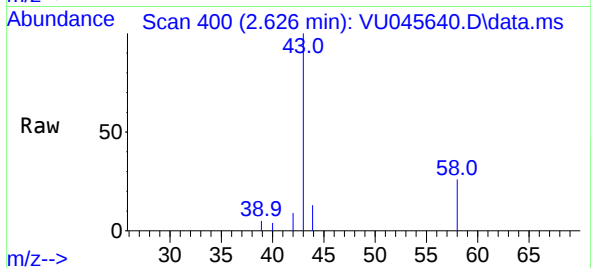




#16  
Acetone  
Concen: 4.571 ug/l  
RT: 2.626 min Scan# 40  
Delta R.T. 0.003 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

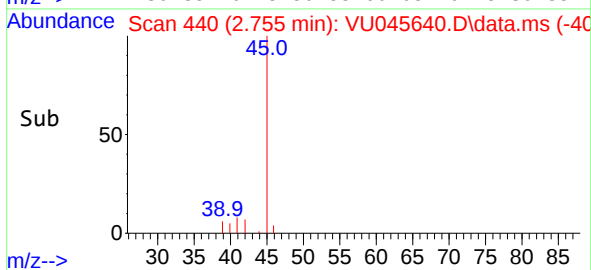
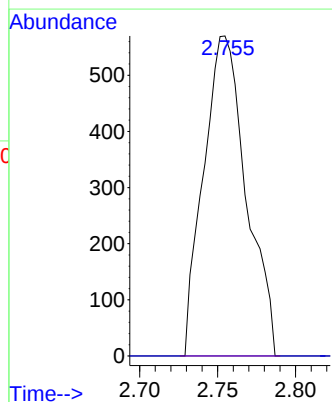
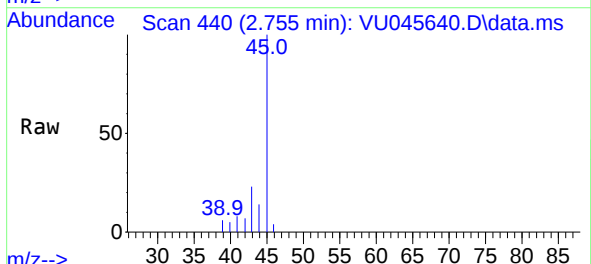
Instrument :  
MSVOA\_U  
ClientSampleId :  
RW8-MW01S-20211102

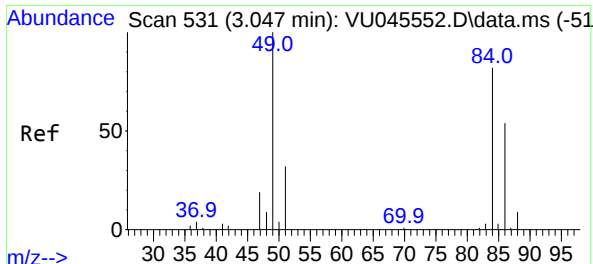
Tgt Ion: 43 Resp: 5195  
Ion Ratio Lower Upper  
43 100  
58 26.4 26.2 39.2



#18  
Methyl Acetate  
Concen: 0.281 ug/l  
RT: 2.755 min Scan# 440  
Delta R.T. -0.193 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 43 Resp: 1088  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.2#





#20

Methylene Chloride

Concen: 0.224 ug/l

RT: 3.047 min Scan# 51

Delta R.T. -0.000 min

Lab File: VU045640.D

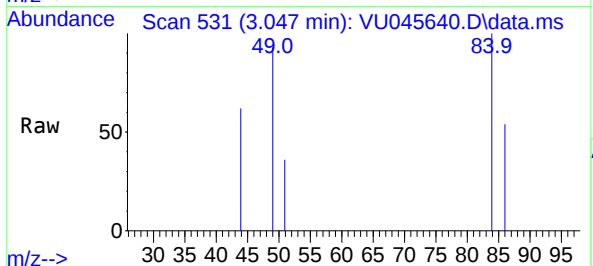
Acq: 09 Nov 2021 01:31

Instrument :

MSVOA\_U

ClientSampleId :

RW8-MW01S-20211102



Tgt Ion: 84 Resp: 442

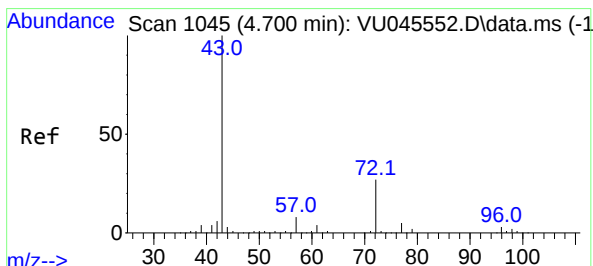
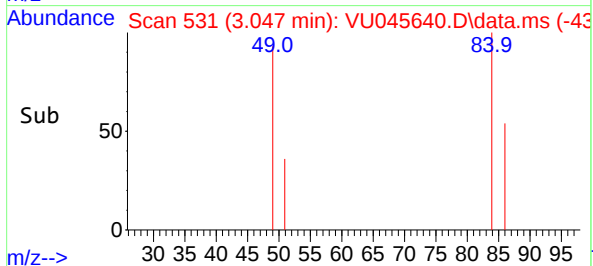
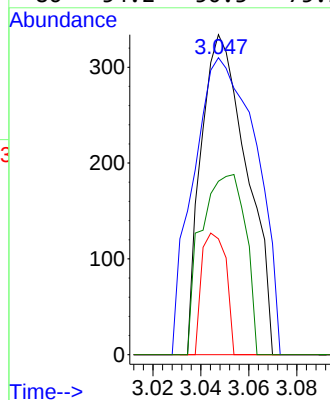
Ion Ratio Lower Upper

84 100

49 92.8 96.4 144.6#

51 36.2 30.5 45.7

86 54.2 50.3 75.5



#25

2-Butanone

Concen: 0.465 ug/l

RT: 4.706 min Scan# 1047

Delta R.T. 0.006 min

Lab File: VU045640.D

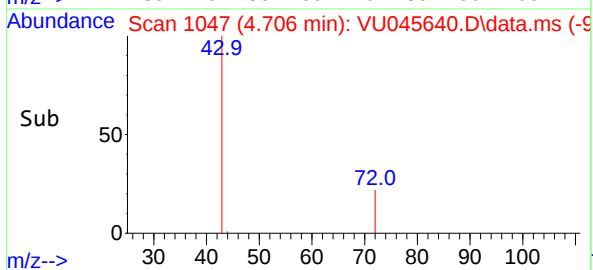
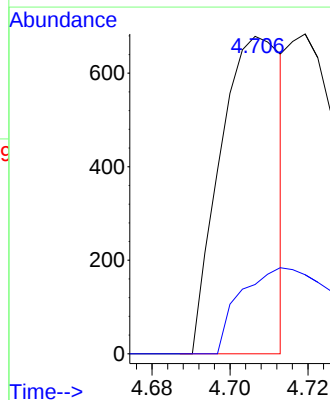
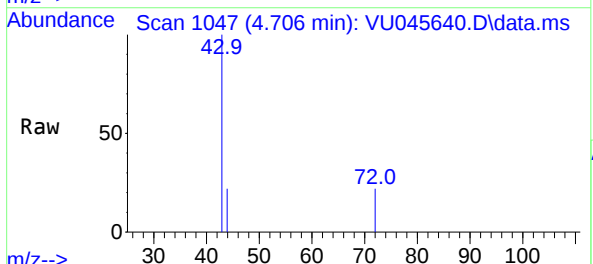
Acq: 09 Nov 2021 01:31

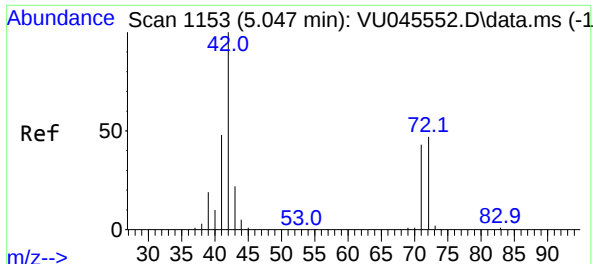
Tgt Ion: 43 Resp: 733

Ion Ratio Lower Upper

43 100

72 21.8 22.0 33.0#

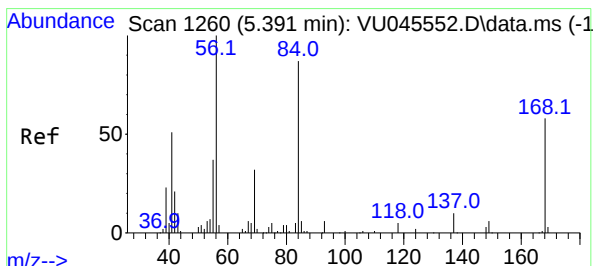
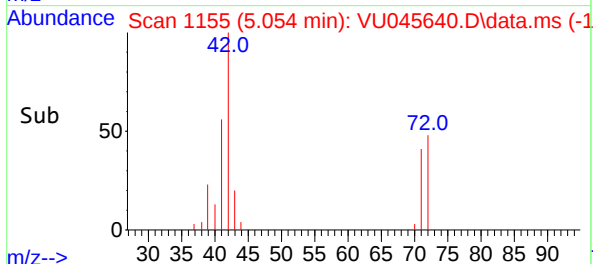
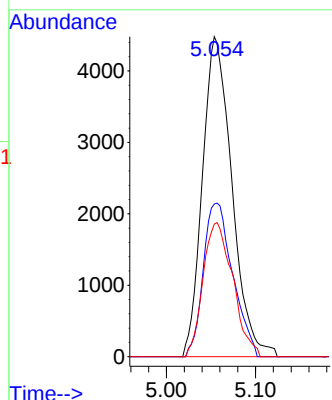
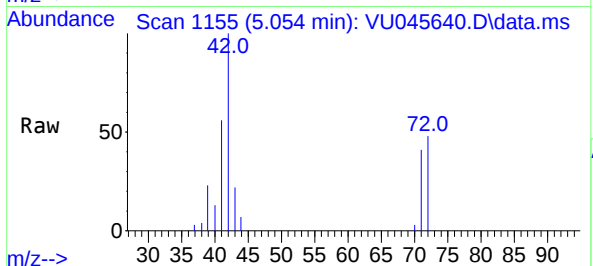




#29  
Tetrahydrofuran  
Concen: 10.700 ug/l  
RT: 5.054 min Scan# 1153  
Delta R.T. 0.006 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

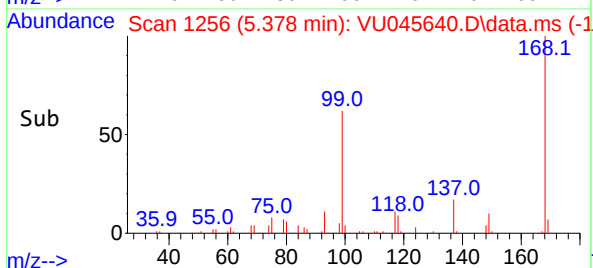
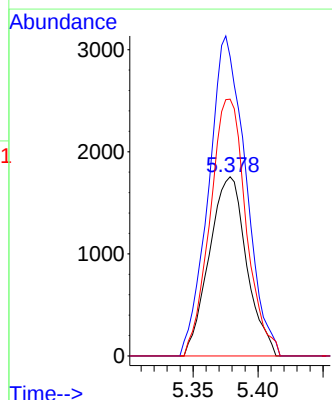
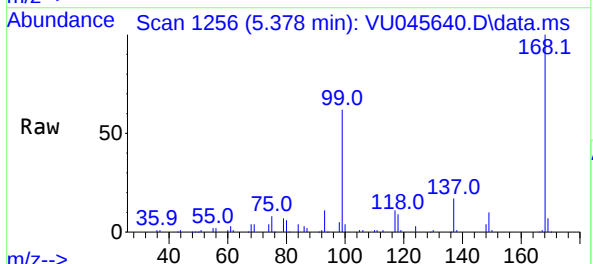
Instrument :  
MSVOA\_U  
ClientSampleId :  
RW8-MW01S-20211102

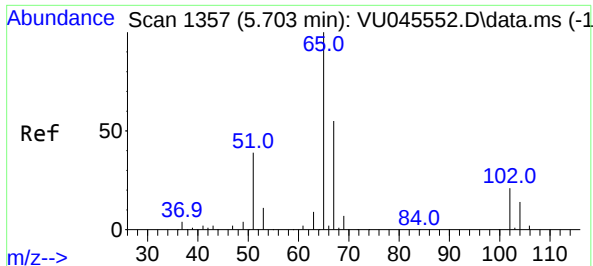
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 10316 |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 47.9  | 38.2  | 57.4  |
| 71       | 42.2  | 35.4  | 53.2  |



#31  
Cyclohexane  
Concen: 1.076 ug/l  
RT: 5.378 min Scan# 1256  
Delta R.T. -0.013 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3506   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 167.0 | 26.4  | 39.6#  |
| 84       | 143.3 | 68.4  | 102.6# |

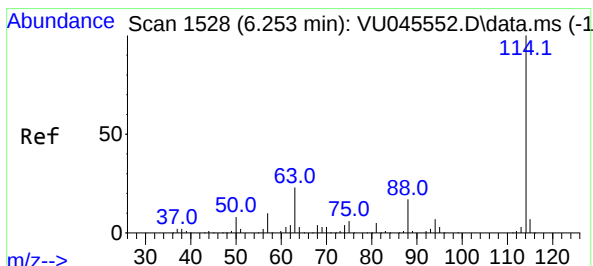
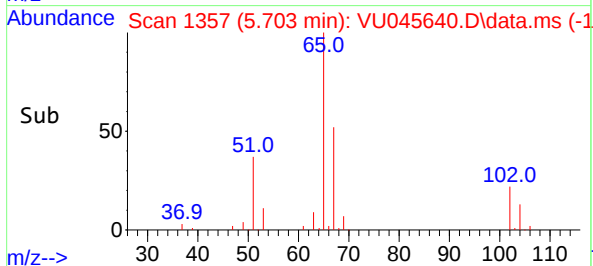
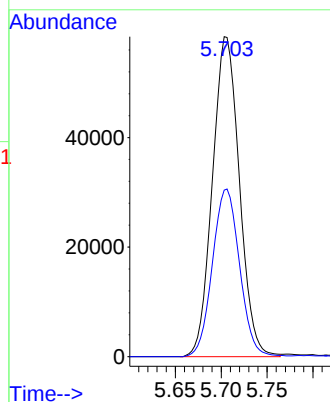
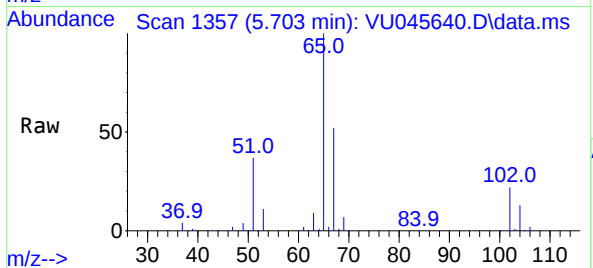




#33  
1,2-Dichloroethane-d4  
Concen: 53.531 ug/l  
RT: 5.703 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

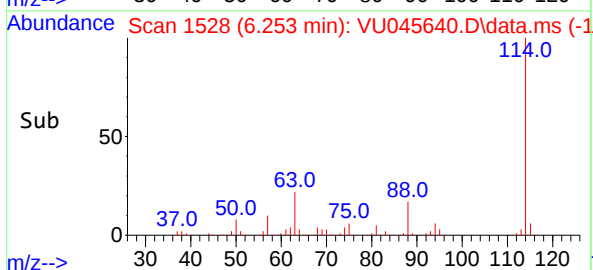
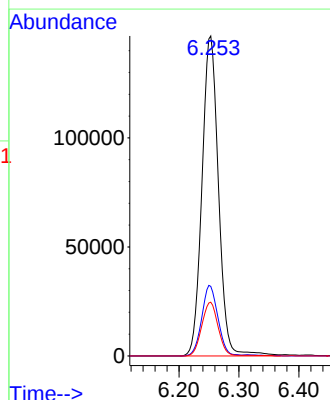
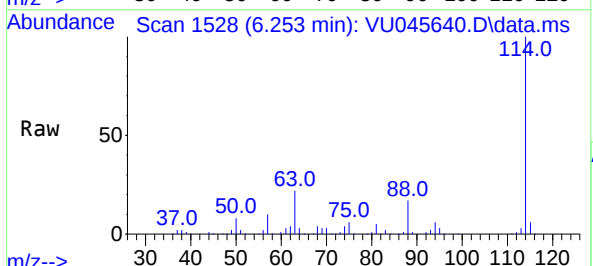
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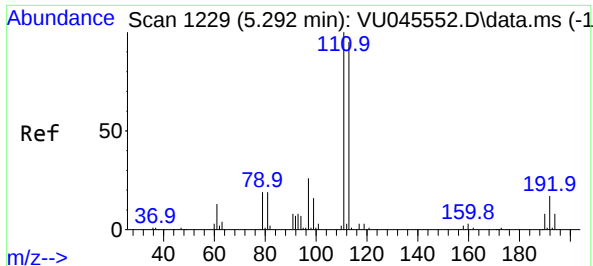
Tgt Ion: 65 Resp: 119504  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 105.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.253 min Scan# 1528  
Delta R.T. -0.000 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 114 Resp: 281858  
Ion Ratio Lower Upper  
114 100  
63 21.8 0.0 45.6  
88 16.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 49.452 ug/l

RT: 5.292 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045640.D

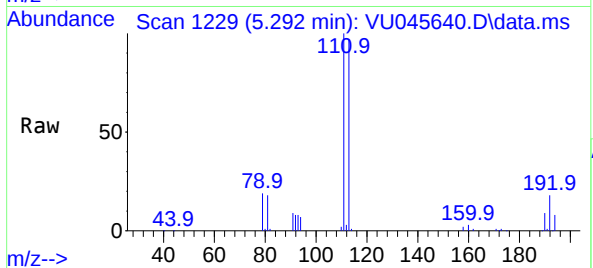
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Instrument :

MSVOA\_U

ClientSampleId :

RW8-MW01S-20211102



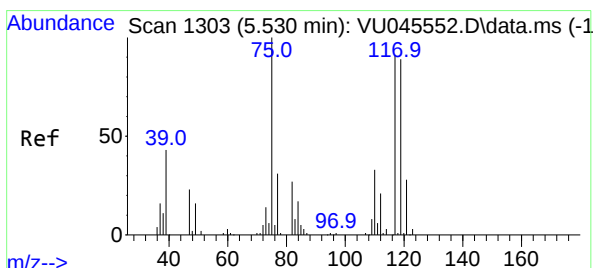
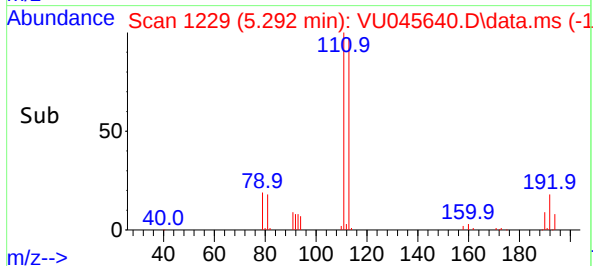
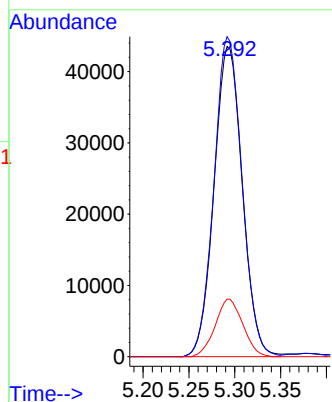
Tgt Ion:113 Resp: 93060

Ion Ratio Lower Upper

113 100

111 102.8 82.8 124.2

192 18.2 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.644 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.154 min

Lab File: VU045640.D

Acq: 09 Nov 2021 01:31

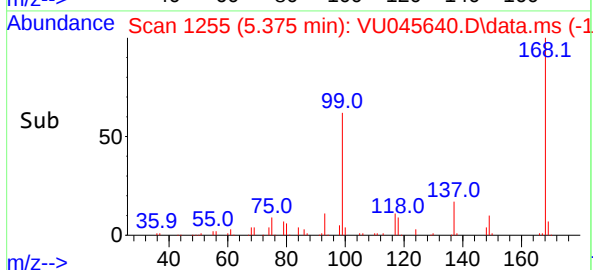
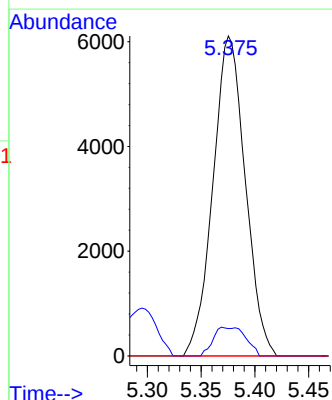
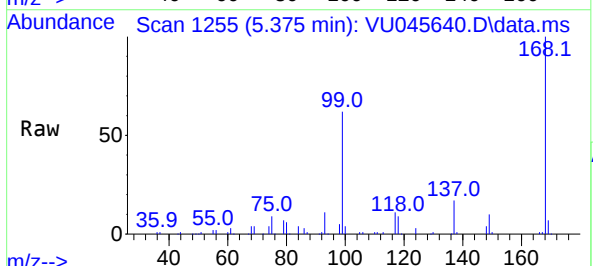
Tgt Ion: 75 Resp: 12763

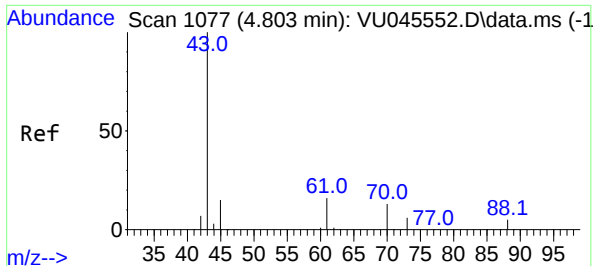
Ion Ratio Lower Upper

75 100

110 4.5 16.7 50.0#

77 0.0 25.0 37.4#

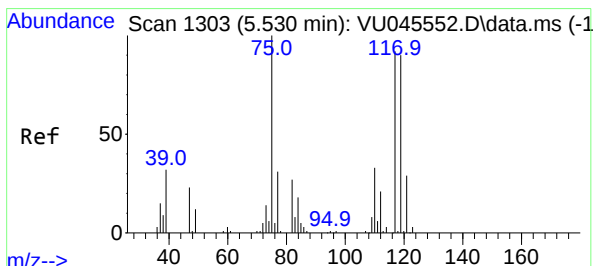
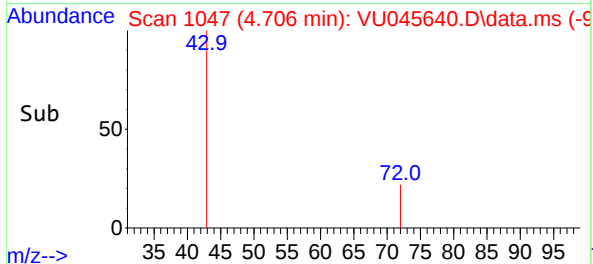
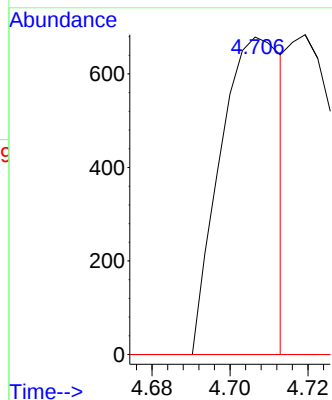
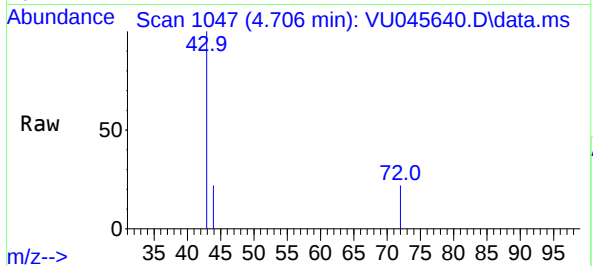




#37  
Ethyl Acetate  
Concen: 0.232 ug/l  
RT: 4.706 min Scan# 1077  
Delta R.T. -0.097 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

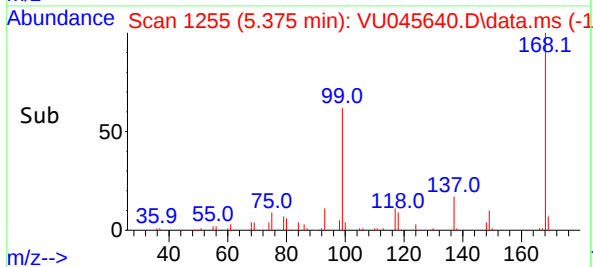
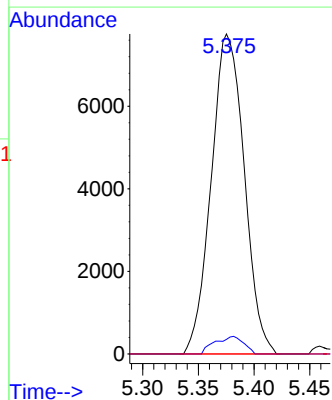
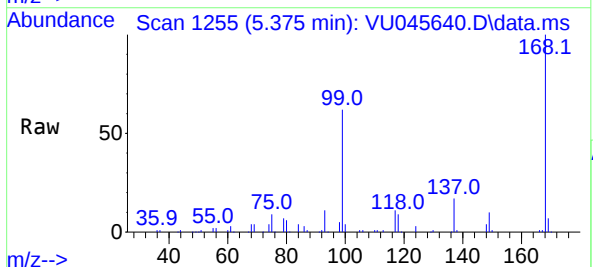
Instrument :  
MSVOA\_U  
ClientSampleId :  
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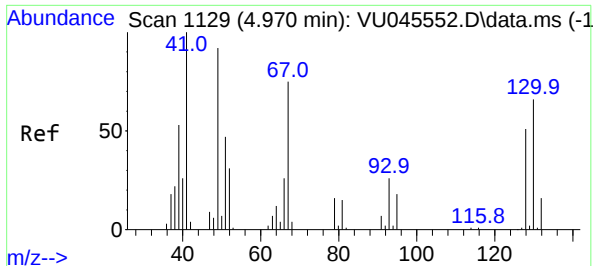
Tgt Ion: 43 Resp: 733  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.6 17.4#  
70 0.0 9.1 13.7#



#38  
Carbon Tetrachloride  
Concen: 5.772 ug/l  
RT: 5.375 min Scan# 1255  
Delta R.T. -0.154 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 117 Resp: 15992  
Ion Ratio Lower Upper  
117 100  
119 4.5 77.4 116.0#  
121 0.0 24.8 37.2#



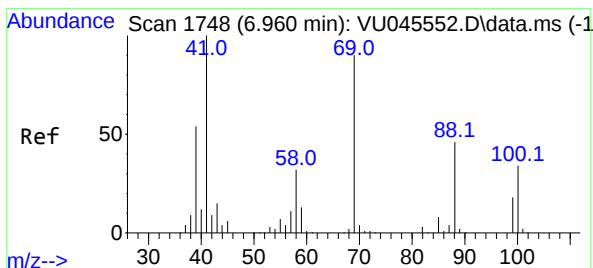
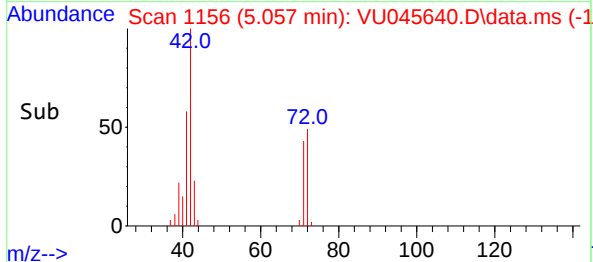
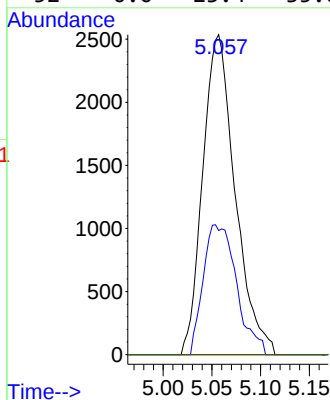
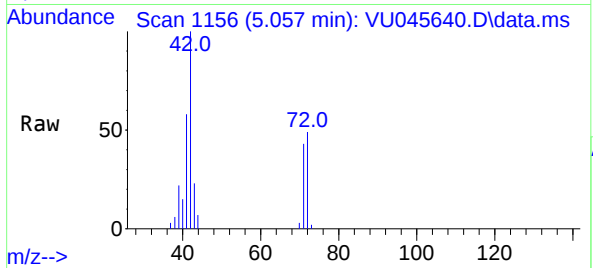


#41  
Methacrylonitrile  
Concen: 3.511 ug/l  
RT: 5.057 min Scan# 11  
Delta R.T. 0.087 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
RW8-MW01S-20211102

Tgt Ion: 41 Resp: 5858

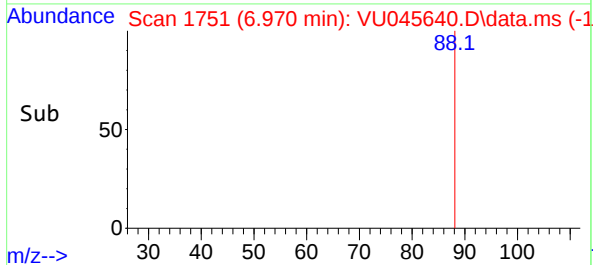
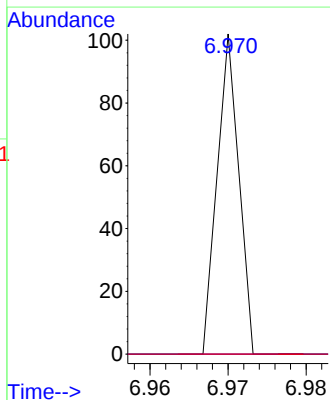
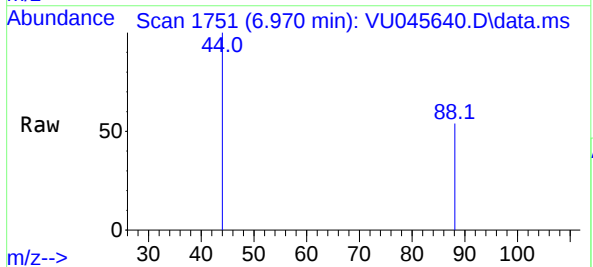
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 41.7  | 43.4  | 65.0# |
| 67  | 0.0   | 61.0  | 91.4# |
| 52  | 0.0   | 23.4  | 35.0# |

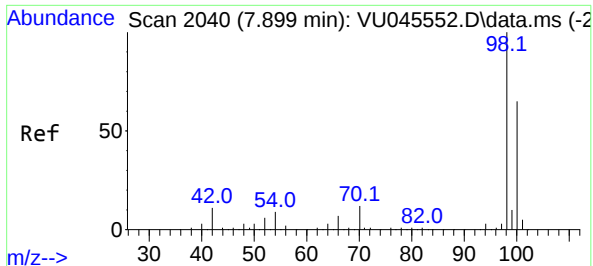


#49  
1,4-Dioxane  
Concen: 0.350 ug/l  
RT: 6.970 min Scan# 1751  
Delta R.T. 0.010 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 88 Resp: 20

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 0.0   | 0.0   | 0.0   |
| 58  | 0.0   | 58.7  | 88.1# |

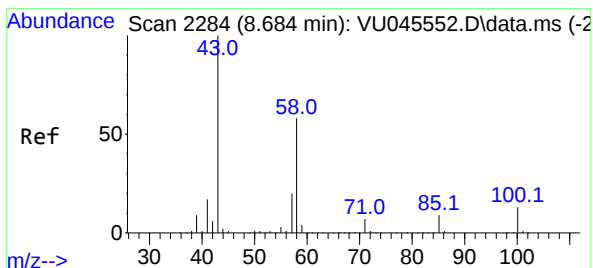
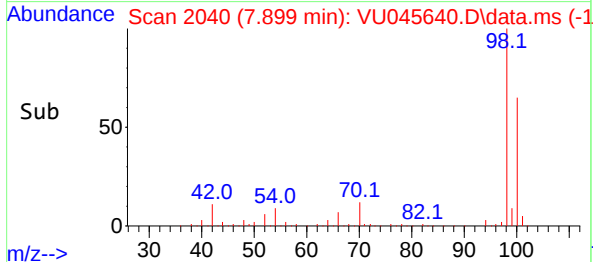
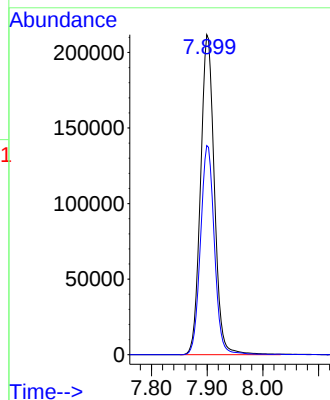
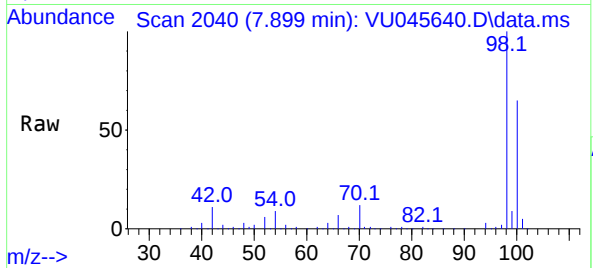




#50  
Toluene-d8  
Concen: 52.168 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. -0.000 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

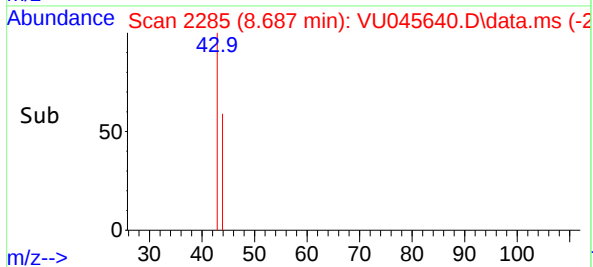
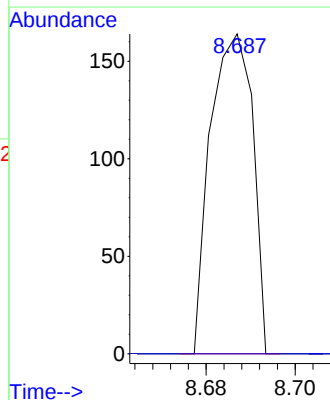
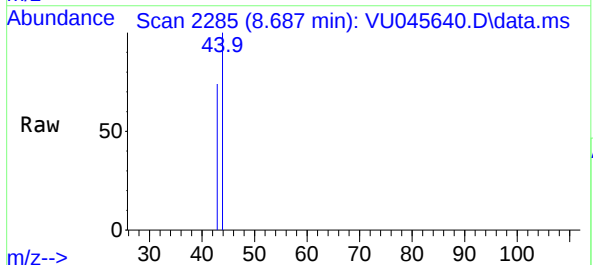
Instrument :  
MSVOA\_U  
ClientSampleId :  
RW8-MW01S-20211102

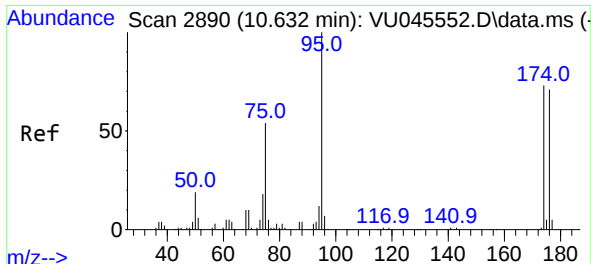
Tgt Ion: 98 Resp: 365048  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.5 78.7



#59  
2-Hexanone  
Concen: 7.573 ug/l  
RT: 8.687 min Scan# 2285  
Delta R.T. 0.003 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 43 Resp: 108  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.5 88.6#

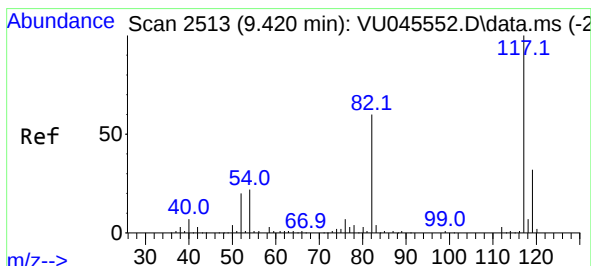
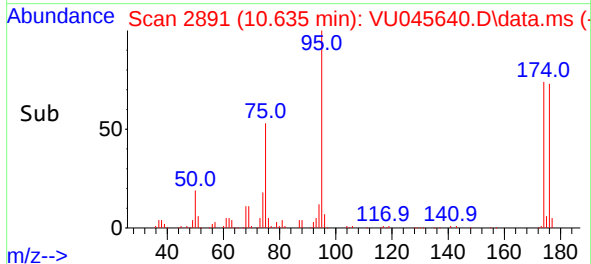
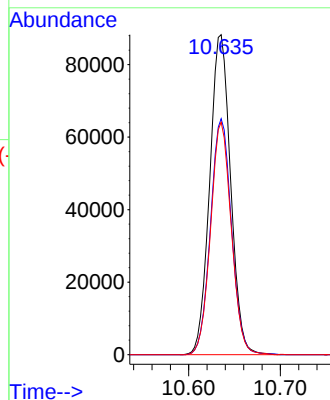
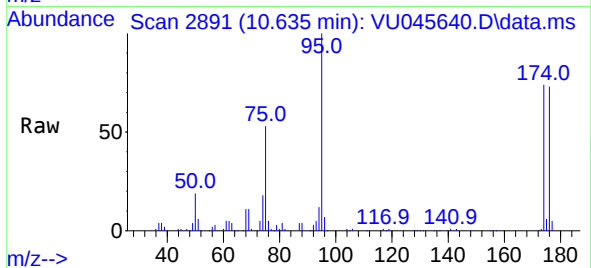




#62  
4-Bromofluorobenzene  
Concen: 49.858 ug/l  
RT: 10.635 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

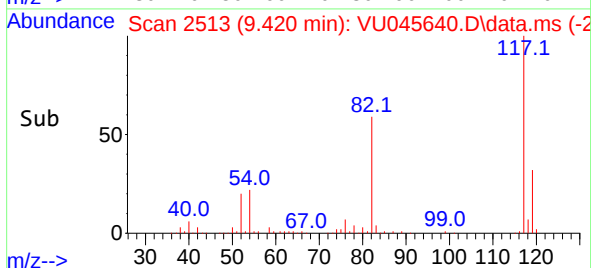
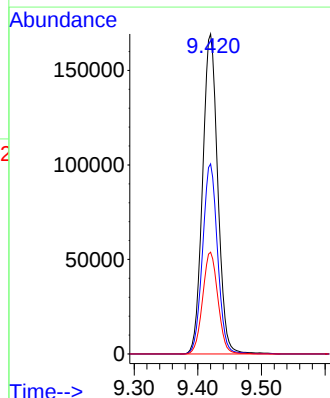
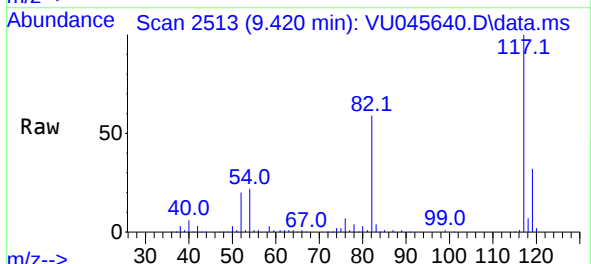
Instrument :  
MSVOA\_U  
ClientSampleId :  
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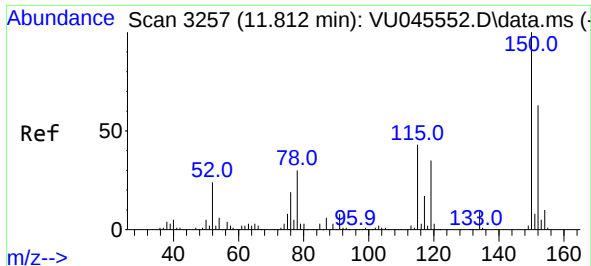
Tgt Ion: 95 Resp: 139900  
Ion Ratio Lower Upper  
95 100  
174 74.1 0.0 141.8  
176 71.9 0.0 138.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.420 min Scan# 2513  
Delta R.T. 0.000 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 117 Resp: 280284  
Ion Ratio Lower Upper  
117 100  
82 59.4 47.8 71.8  
119 31.8 25.8 38.8

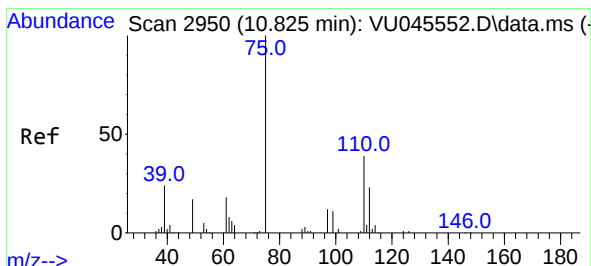
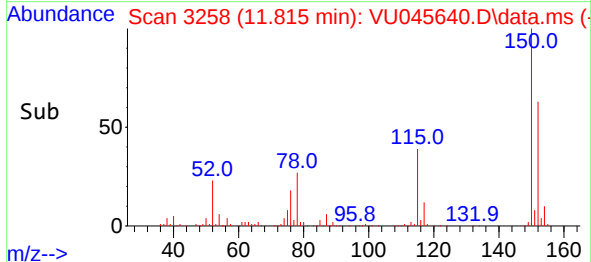
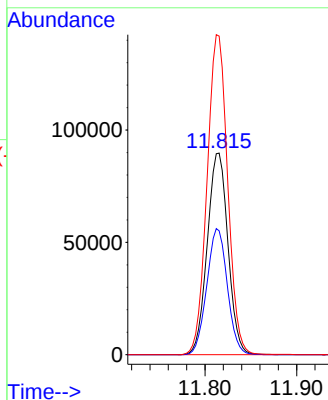
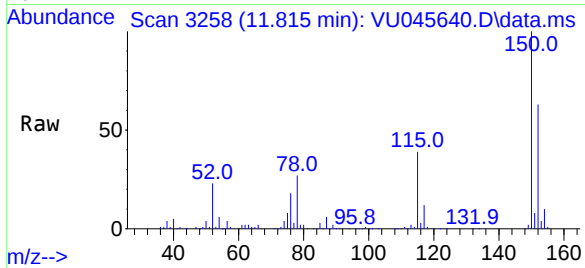




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.815 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

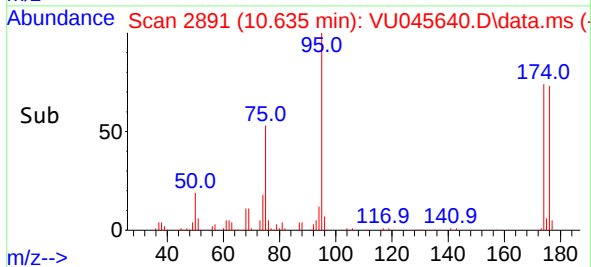
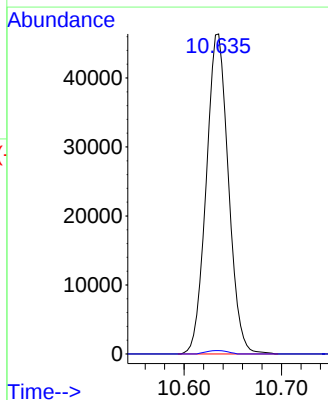
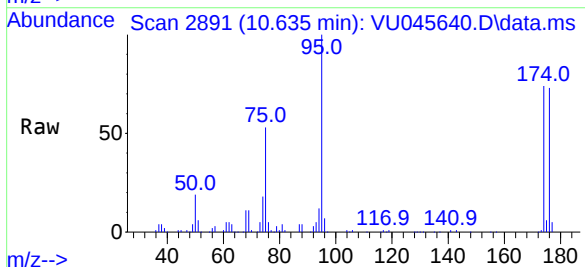
Instrument :  
MSVOA\_U  
ClientSampleId :  
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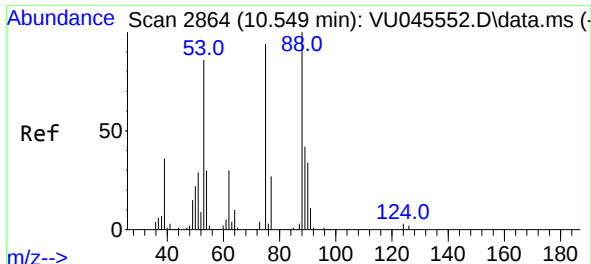
Tgt Ion:152 Resp: 140960  
Ion Ratio Lower Upper  
152 100  
115 62.0 42.7 128.1  
150 157.6 0.0 346.8



#76  
1,2,3-Trichloropropane  
Concen: 17.181 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. -0.190 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion: 75 Resp: 73442  
Ion Ratio Lower Upper  
75 100  
77 1.0 17.1 51.3#

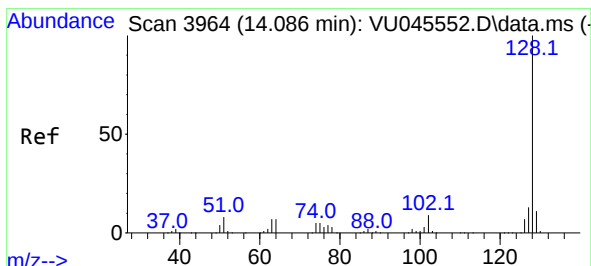
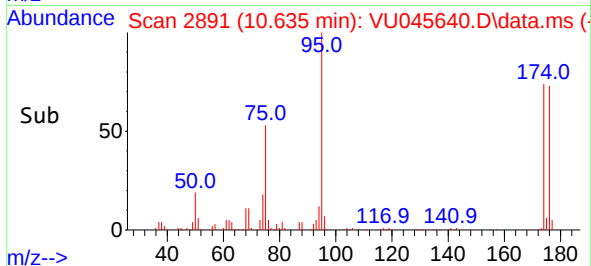
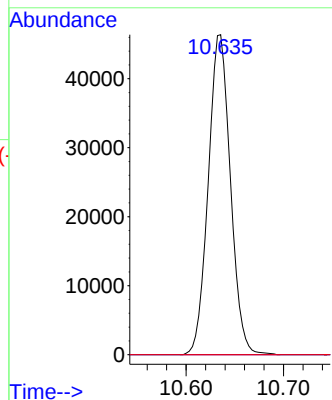
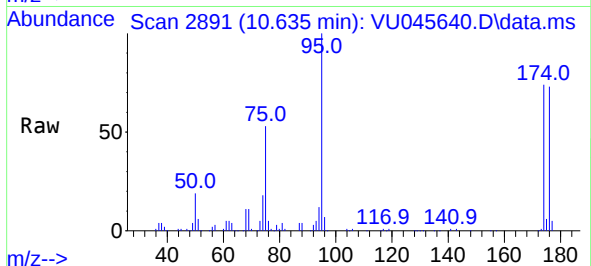




#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.906 ug/l  
RT: 10.635 min Scan# 2864  
Delta R.T. 0.086 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
RW8-MW01S-20211102

Tgt Ion: 75 Resp: 73442  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#



#95  
Naphthalene  
Concen: 1.091 ug/l  
RT: 14.092 min Scan# 3966  
Delta R.T. 0.006 min  
Lab File: VU045640.D  
Acq: 09 Nov 2021 01:31

Tgt Ion:128 Resp: 720  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 0.0 8.6 13.0#

