

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU051221\  
 Data File : VU043681.D  
 Acq On : 12 May 2021 16:39  
 Operator : SY/MD  
 Sample : M2322-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

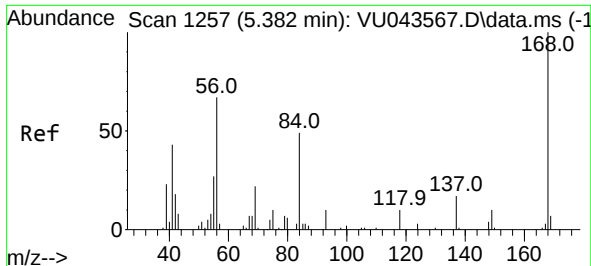
Quant Time: May 13 01:33:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U050621W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 11 09:51:45 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|-------|---------|----------|
| -----                         |        |      |          |       |         |          |
| Internal Standards            |        |      |          |       |         |          |
| 1) Pentafluorobenzene         | 5.382  | 168  | 118519   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.256  | 114  | 213505   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 9.423  | 117  | 211741   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.819 | 152  | 94813    | 50.00 | ug/l    | 0.00     |
|                               |        |      |          |       |         |          |
| System Monitoring Compounds   |        |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4     | 5.710  | 65   | 125094   | 51.03 | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 102.06% |          |
| 35) Dibromofluoromethane      | 5.298  | 113  | 86399    | 49.03 | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 98.06%  |          |
| 50) Toluene-d8                | 7.906  | 98   | 305190   | 51.47 | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 102.94% |          |
| 62) 4-Bromofluorobenzene      | 10.639 | 95   | 105527   | 45.67 | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 91.34%  |          |
|                               |        |      |          |       |         |          |
| Target Compounds              |        |      |          |       | Qvalue  |          |
| 3) Chloromethane              | 1.523  | 50   | 877      | 0.72  | ug/l #  | 82       |
| 8) Diethyl Ether              | 2.382  | 74   | 210      | 0.23  | ug/l #  | 1        |
| 11) Tert butyl alcohol        | 3.192  | 59   | 6234     | 9.68  | ug/l #  | 73       |
| 13) Acrolein                  | 2.488  | 56   | 244      | 6.88  | ug/l    | 88       |
| 14) Allyl chloride            | 3.051  | 41   | 2772     | 0.81  | ug/l #  | 25       |
| 16) Acetone                   | 2.629  | 43   | 24938    | 18.73 | ug/l    | 95       |
| 20) Methylene Chloride        | 3.054  | 84   | 56391    | 30.09 | ug/l    | 98       |
| 31) Cyclohexane               | 5.385  | 56   | 3360     | 1.17  | ug/l #  | 15       |
| 36) 1,1-Dichloropropene       | 5.382  | 75   | 11273    | 4.65  | ug/l #  | 50       |
| 38) Carbon Tetrachloride      | 5.382  | 117  | 12579    | 5.12  | ug/l #  | 17       |
| 51) 4-Methyl-2-Pentanone      | 7.800  | 43   | 205      | 19.22 | ug/l #  | 41       |
| 52) Toluene                   | 7.976  | 92   | 37415    | 8.91  | ug/l    | 98       |
| 53) t-1,3-Dichloropropene     | 7.973  | 75   | 474      | 2.39  | ug/l #  | 1        |
| 59) 2-Hexanone                | 8.697  | 43   | 81       | 20.73 | ug/l #  | 30       |
| 67) Ethyl Benzene             | 9.420  | 91   | 530      | 1.51  | ug/l #  | 45       |
| 74) N-amyl acetate            | 10.349 | 43   | 111      | 2.54  | ug/l #  | 25       |
| 76) 1,2,3-Trichloropropane    | 10.639 | 75   | 61132    | 20.28 | ug/l #  | 43       |
| 81) trans-1,4-Dichloro-2-b... | 10.639 | 75   | 61132    | 66.04 | ug/l #  | 3        |
| 84) 1,2,4-Trimethylbenzene    | 11.481 | 105  | 494      | 1.19  | ug/l #  | 33       |
| 85) sec-Butylbenzene          | 11.481 | 105  | 494      | 1.40  | ug/l #  | 59       |
| 95) Naphthalene               | 14.092 | 128  | 386      | 1.57  | ug/l #  | 69       |
| -----                         |        |      |          |       |         |          |

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

Quant Time: May 13 01:33:49 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U050621W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 11 09:51:45 2021  
Response via : Initial Calibration

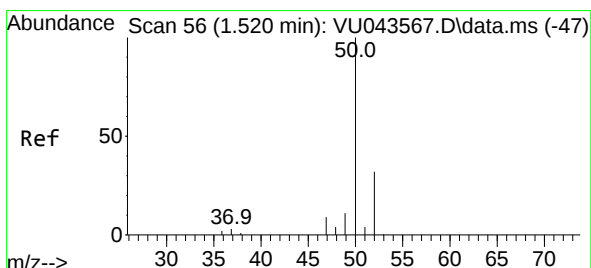
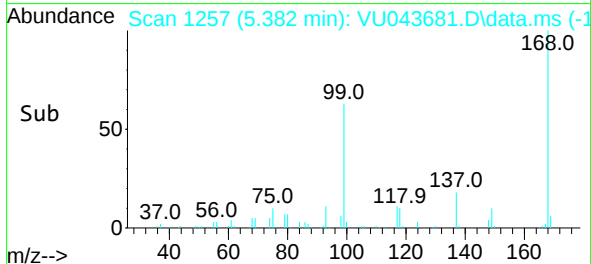
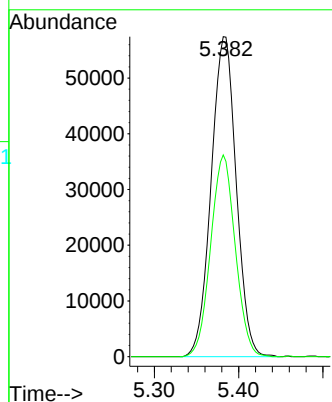
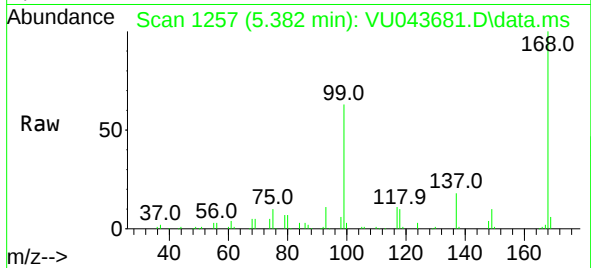




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

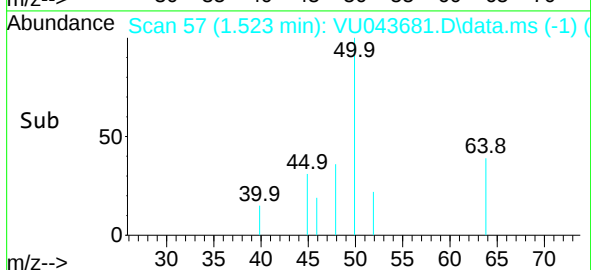
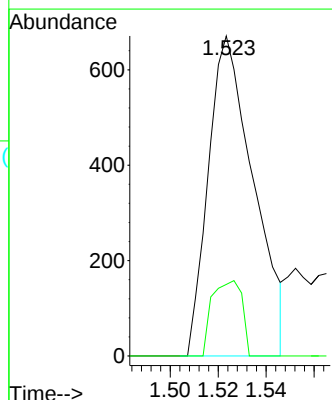
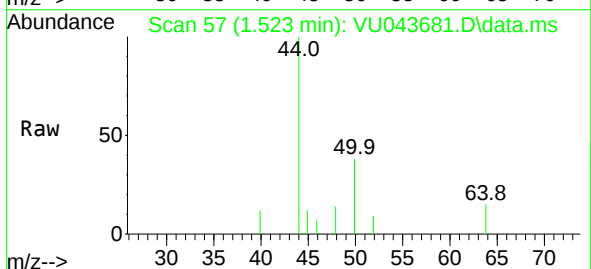
Instrument :  
MSVOA\_U  
ClientSampleId :

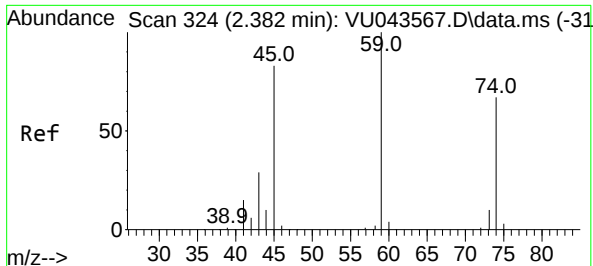
Tgt Ion:168 Resp: 118519  
Ion Ratio Lower Upper  
168 100  
99 63.0 49.0 73.6



#3  
Chloromethane  
Concen: 0.72 ug/l  
RT: 1.523 min Scan# 57  
Delta R.T. 0.003 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

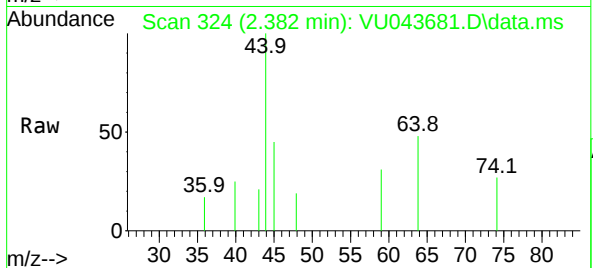
Tgt Ion: 50 Resp: 877  
Ion Ratio Lower Upper  
50 100  
52 22.4 25.9 38.9#



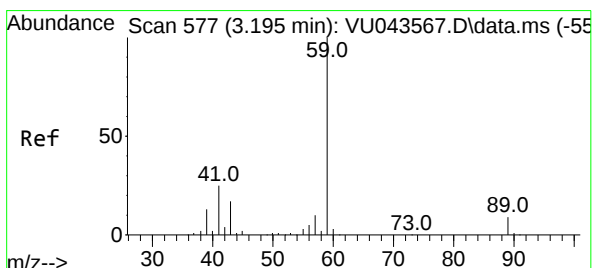
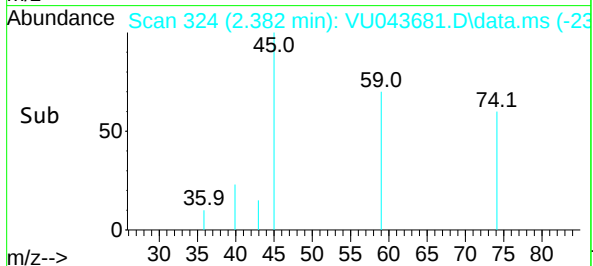
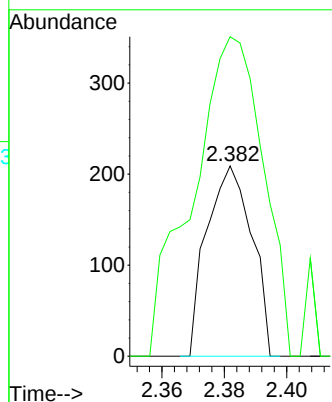


#8  
Diethyl Ether  
Concen: 0.23 ug/l  
RT: 2.382 min Scan# 324  
Delta R.T. 0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Instrument :  
MSVOA\_U  
ClientSampled :

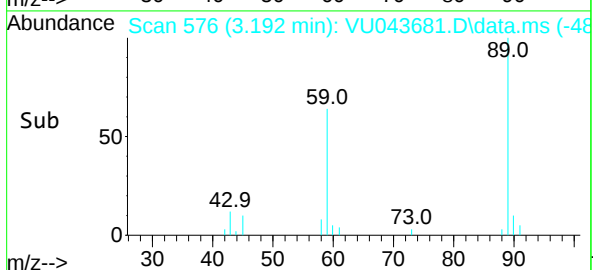
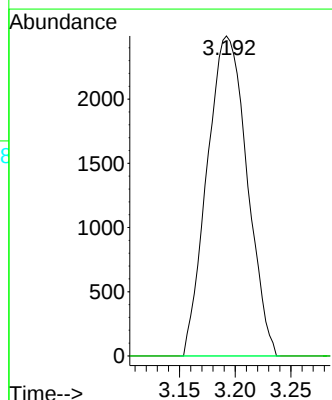
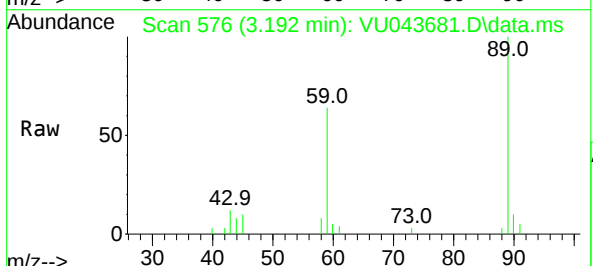


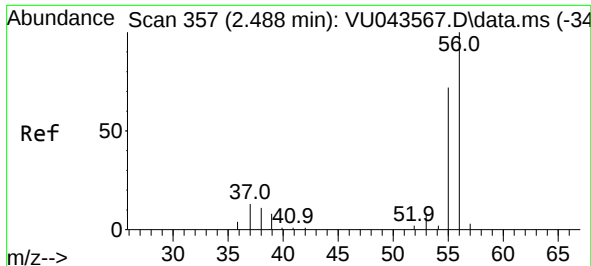
Tgt Ion: 74 Resp: 210  
Ion Ratio Lower Upper  
74 100  
45 262.9 62.6 187.8#



#11  
Tert butyl alcohol  
Concen: 9.68 ug/l  
RT: 3.192 min Scan# 576  
Delta R.T. -0.003 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

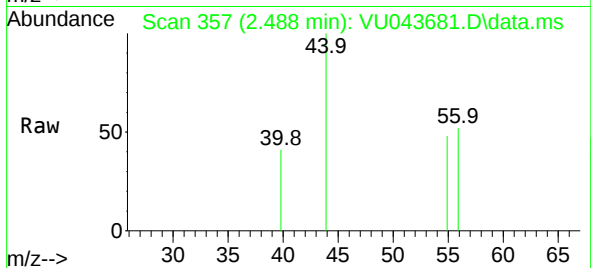
Tgt Ion: 59 Resp: 6234  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#



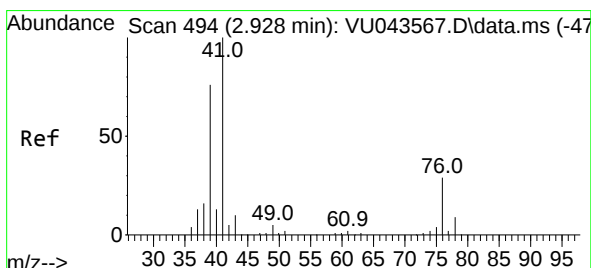
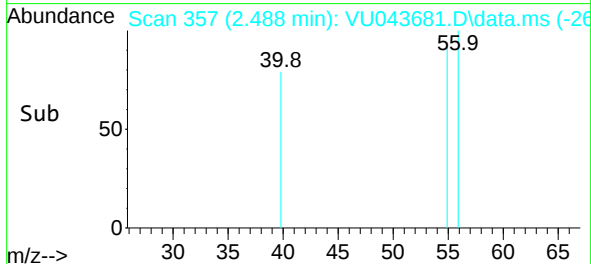
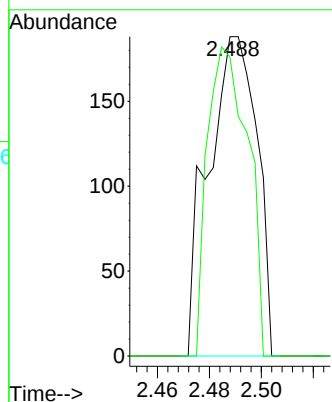


#13  
Acrolein  
Concen: 6.88 ug/l  
RT: 2.488 min Scan# 357  
Delta R.T. -0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Instrument :  
MSVOA\_U  
ClientSampled :

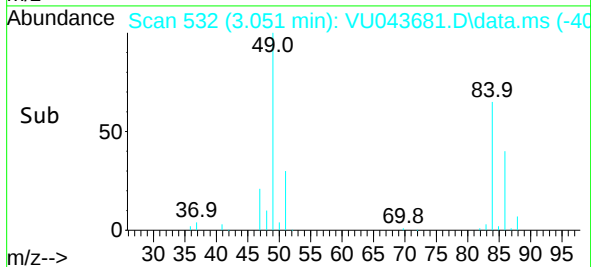
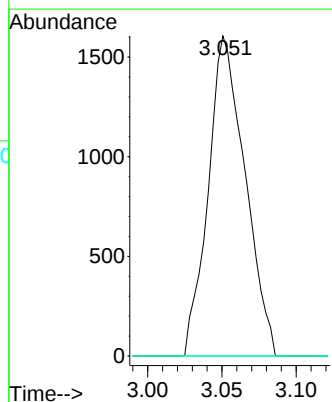
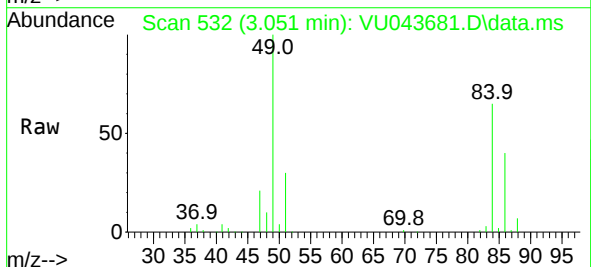


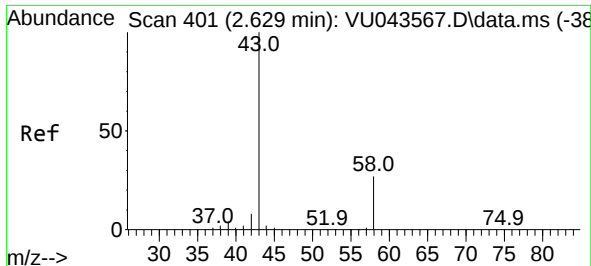
Tgt Ion: 56 Resp: 244  
Ion Ratio Lower Upper  
56 100  
55 80.7 56.9 85.3



#14  
Allyl chloride  
Concen: 0.81 ug/l  
RT: 3.051 min Scan# 532  
Delta R.T. 0.122 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

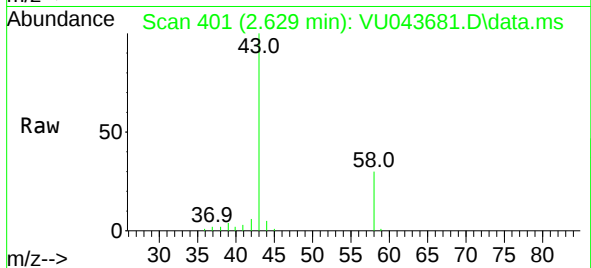
Tgt Ion: 41 Resp: 2772  
Ion Ratio Lower Upper  
41 100  
39 0.0 54.5 81.7#  
76 0.0 19.9 29.9#



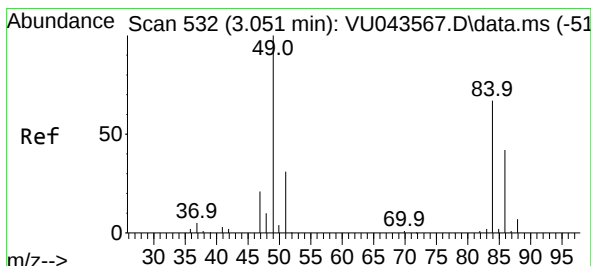
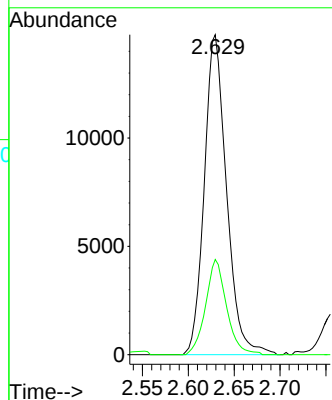
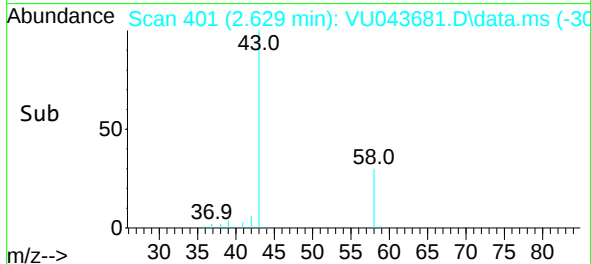


#16  
Acetone  
Concen: 18.73 ug/l  
RT: 2.629 min Scan# 401  
Delta R.T. 0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

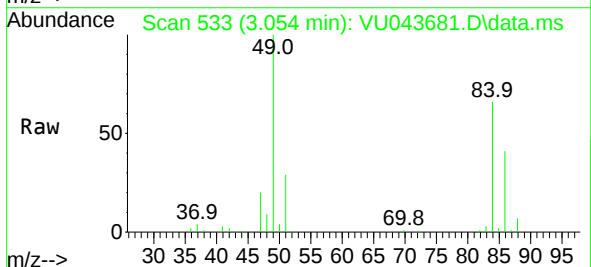
Instrument :  
MSVOA\_U  
ClientSampled :



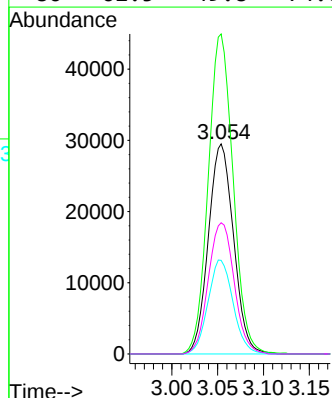
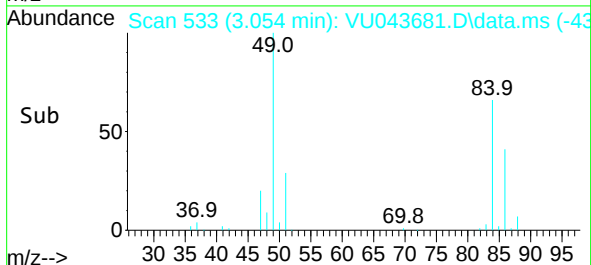
Tgt Ion: 43 Resp: 24938  
Ion Ratio Lower Upper  
43 100  
58 29.7 21.7 32.5

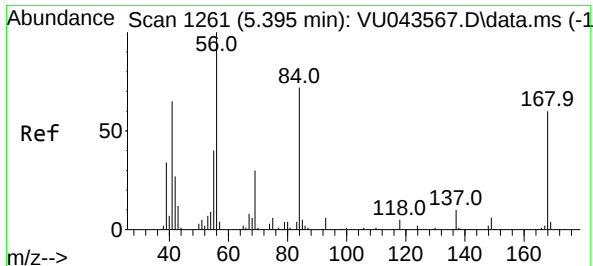


#20  
Methylene Chloride  
Concen: 30.09 ug/l  
RT: 3.054 min Scan# 533  
Delta R.T. 0.003 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39



Tgt Ion: 84 Resp: 56391  
Ion Ratio Lower Upper  
84 100  
49 152.4 119.0 178.4  
51 44.5 36.8 55.2  
86 62.5 49.8 74.6

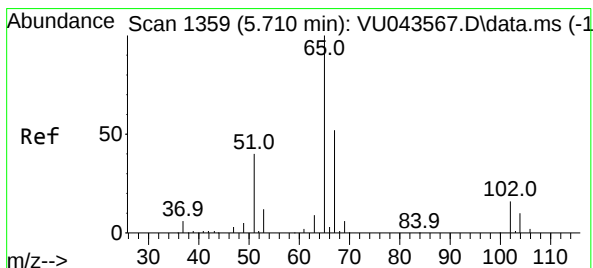
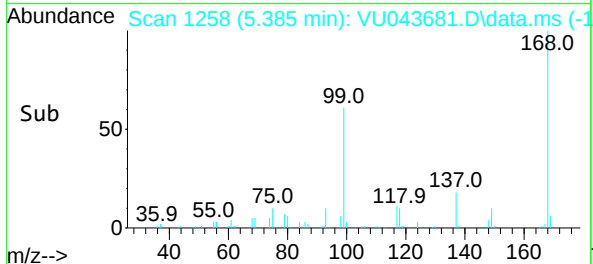
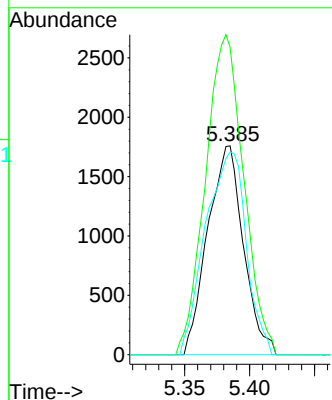
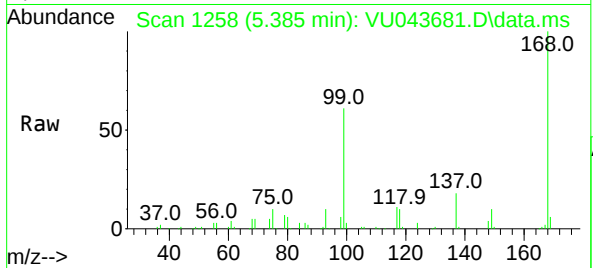




#31  
Cyclohexane  
Concen: 1.17 ug/l  
RT: 5.385 min Scan# 1258  
Delta R.T. -0.010 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

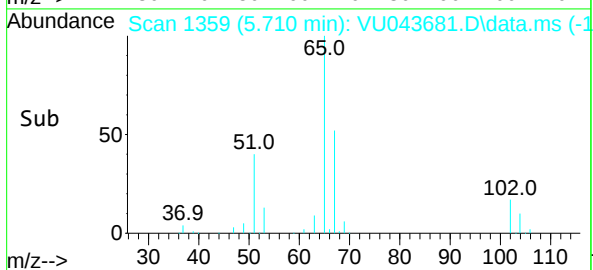
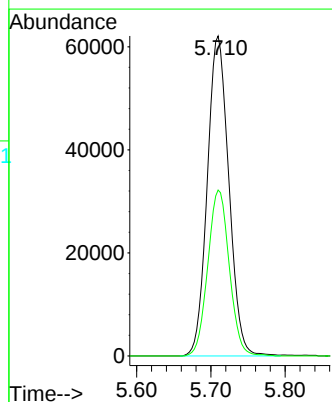
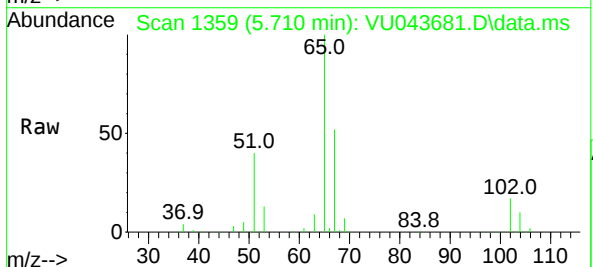
Instrument :  
MSVOA\_U  
ClientSampled :

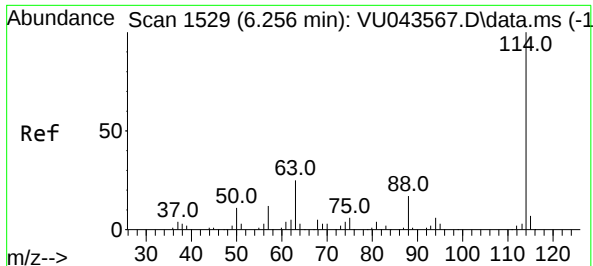
Tgt Ion: 56 Resp: 3360  
Ion Ratio Lower Upper  
56 100  
69 147.2 23.9 35.9#  
84 97.0 57.7 86.5#



#33  
1,2-Dichloroethane-d4  
Concen: 51.03 ug/l  
RT: 5.710 min Scan# 1359  
Delta R.T. -0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion: 65 Resp: 125094  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.256 min Scan# 1529

Delta R.T. 0.000 min

Lab File: VU043681.D

Acq: 12 May 2021 16:39

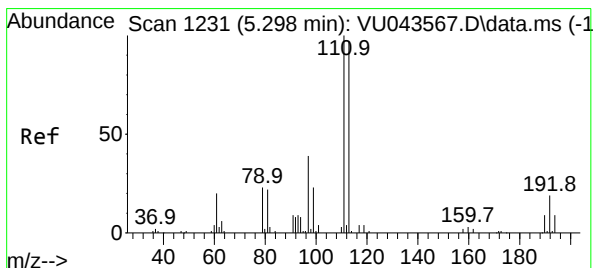
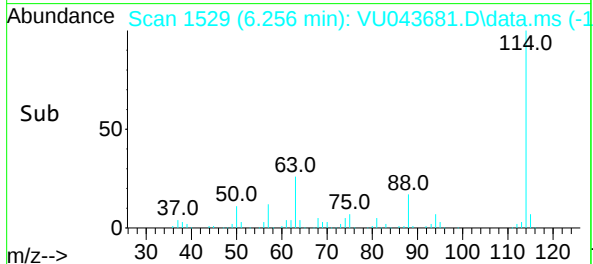
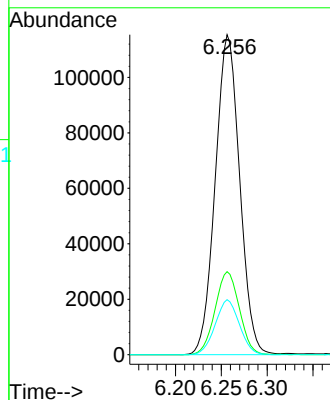
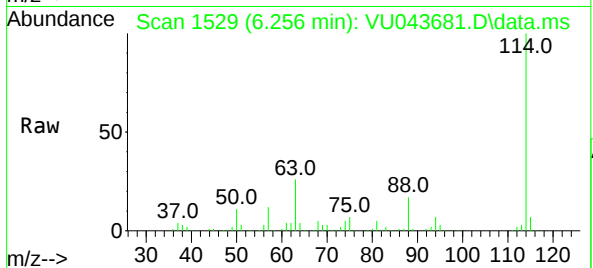
Tgt Ion:114 Resp: 213505

Ion Ratio Lower Upper

114 100

63 25.9 0.0 50.2

88 17.2 0.0 33.8



#35

Dibromofluoromethane

Concen: 49.03 ug/l

RT: 5.298 min Scan# 1231

Delta R.T. 0.000 min

Lab File: VU043681.D

Acq: 12 May 2021 16:39

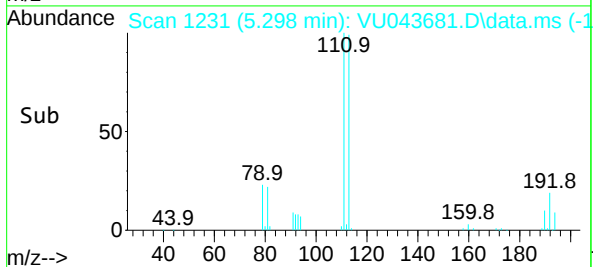
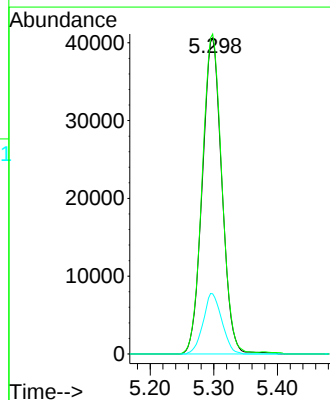
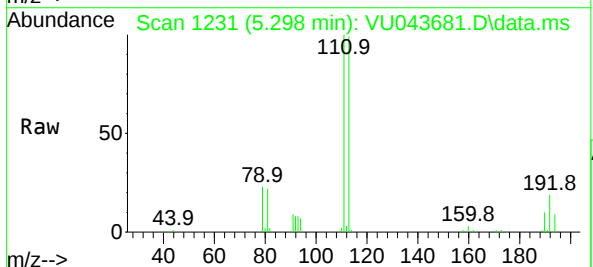
Tgt Ion:113 Resp: 86399

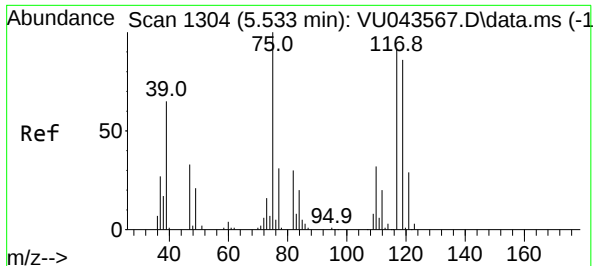
Ion Ratio Lower Upper

113 100

111 101.8 82.3 123.5

192 18.3 15.8 23.6





#36

1,1-Dichloropropene

Concen: 4.65 ug/l

RT: 5.382 min Scan# 1257

Delta R.T. -0.151 min

Lab File: VU043681.D

Acq: 12 May 2021 16:39

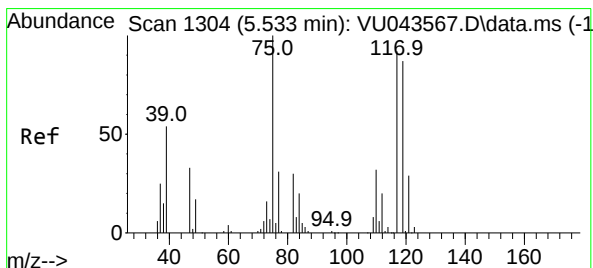
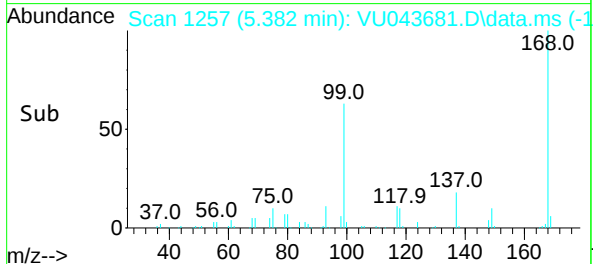
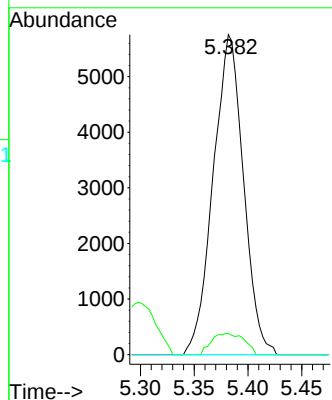
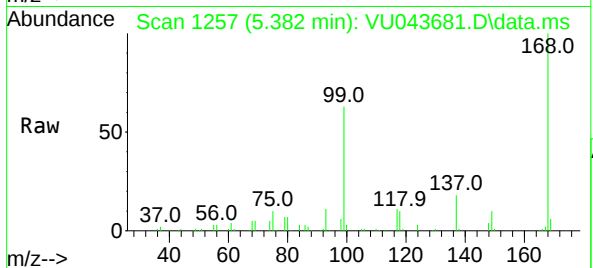
Tgt Ion: 75 Resp: 11273

Ion Ratio Lower Upper

75 100

110 7.1 16.2 48.5#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 5.382 min Scan# 1257

Delta R.T. -0.151 min

Lab File: VU043681.D

Acq: 12 May 2021 16:39

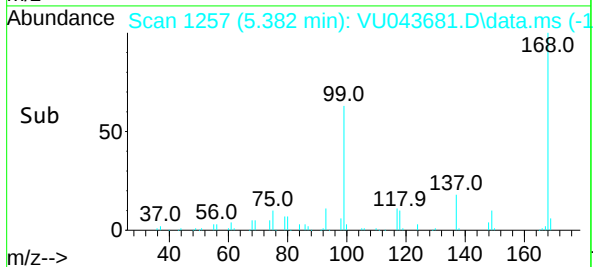
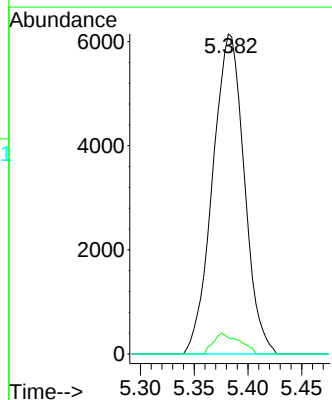
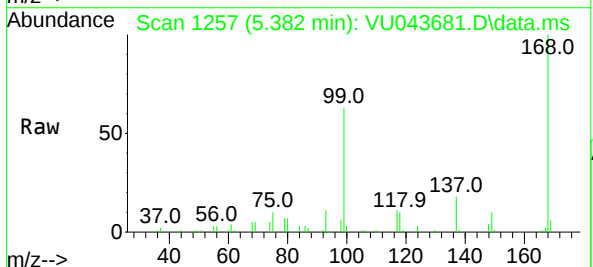
Tgt Ion: 117 Resp: 12579

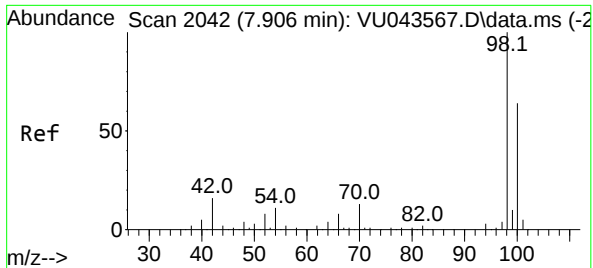
Ion Ratio Lower Upper

117 100

119 5.1 75.4 113.0#

121 0.0 25.2 37.8#

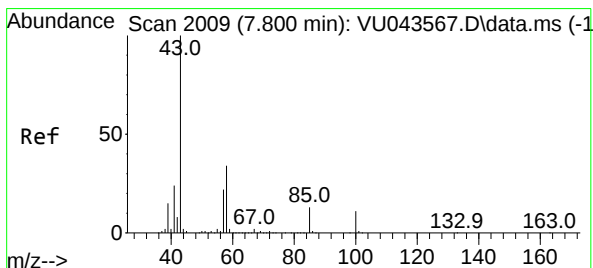
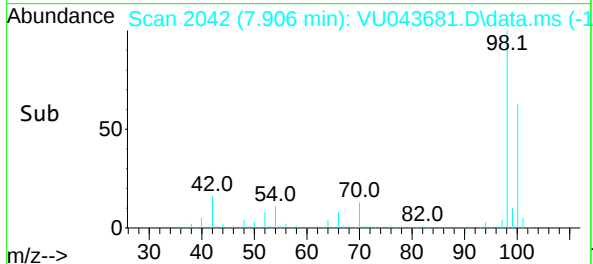
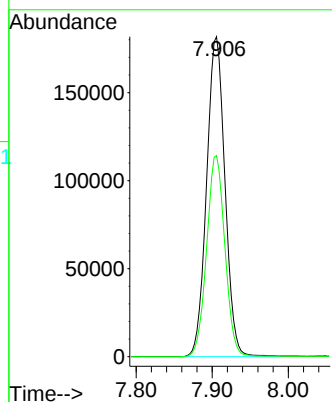
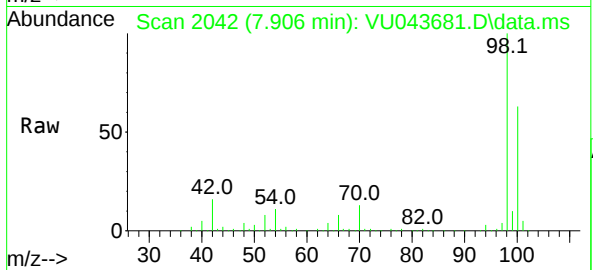




#50  
Toluene-d8  
Concen: 51.47 ug/l  
RT: 7.906 min Scan# 2042  
Delta R.T. -0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

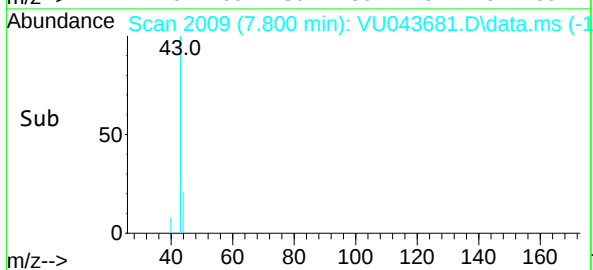
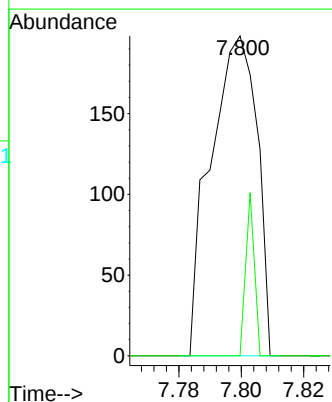
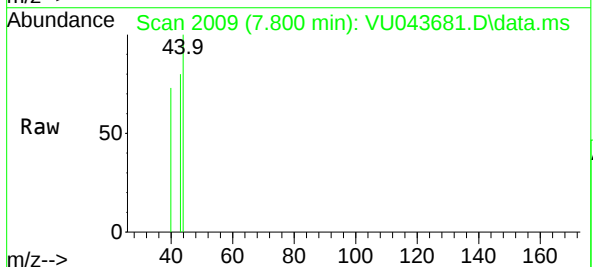
Instrument :  
MSVOA\_U  
ClientSampled :

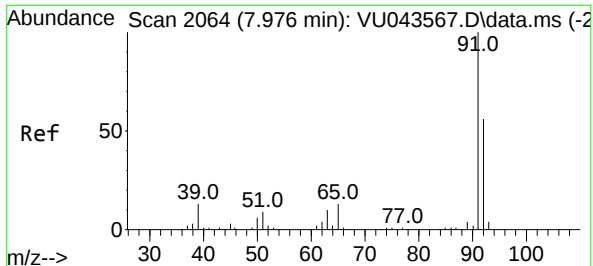
Tgt Ion: 98 Resp: 305190  
Ion Ratio Lower Upper  
98 100  
100 62.5 50.5 75.7



#51  
4-Methyl-2-Pentanone  
Concen: 19.22 ug/l  
RT: 7.800 min Scan# 2009  
Delta R.T. -0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion: 43 Resp: 205  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.2 40.8#

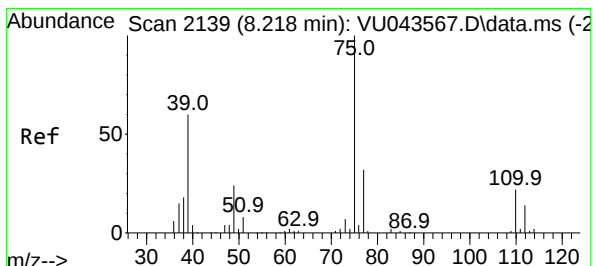
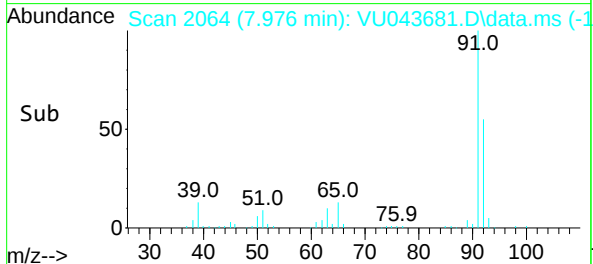
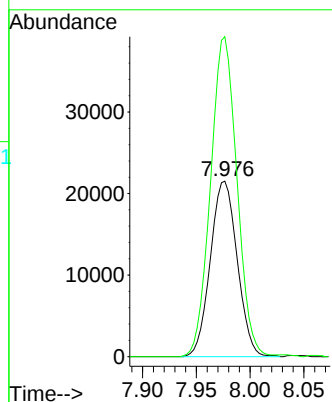
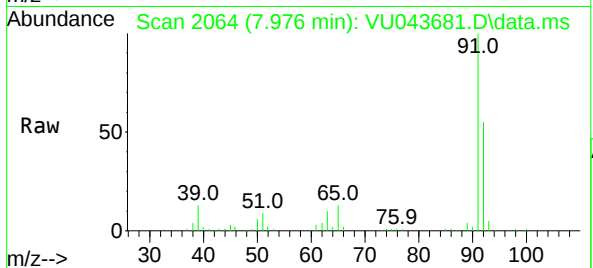




#52  
Toluene  
Concen: 8.91 ug/l  
RT: 7.976 min Scan# 2064  
Delta R.T. 0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

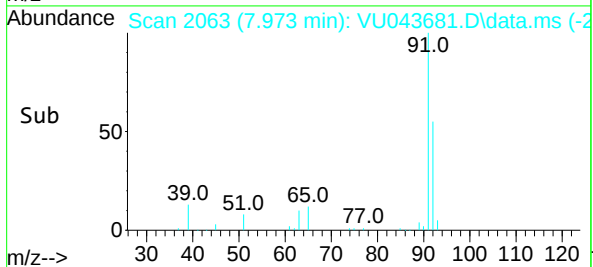
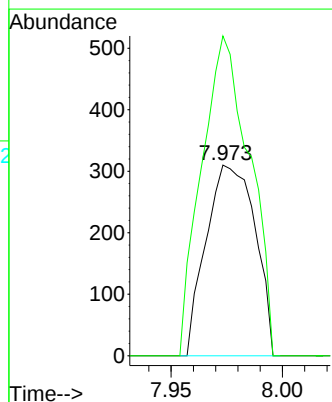
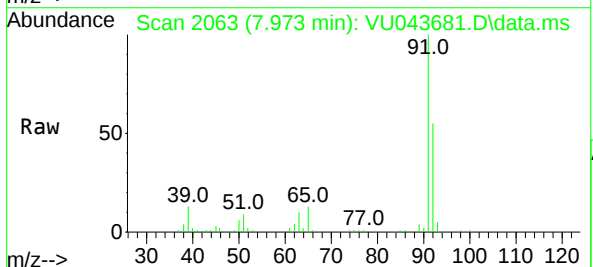
Instrument :  
MSVOA\_U  
ClientSampled :

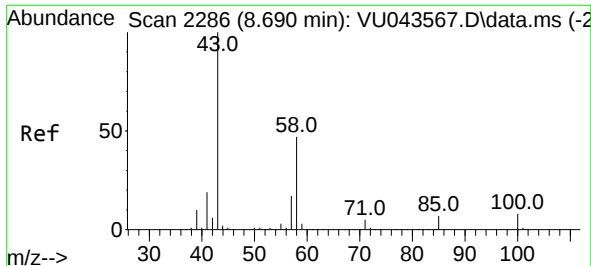
Tgt Ion: 92 Resp: 37415  
Ion Ratio Lower Upper  
92 100  
91 179.0 140.9 211.3



#53  
t-1,3-Dichloropropene  
Concen: 2.39 ug/l  
RT: 7.973 min Scan# 2063  
Delta R.T. -0.245 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion: 75 Resp: 474  
Ion Ratio Lower Upper  
75 100  
77 167.7 25.5 38.3#

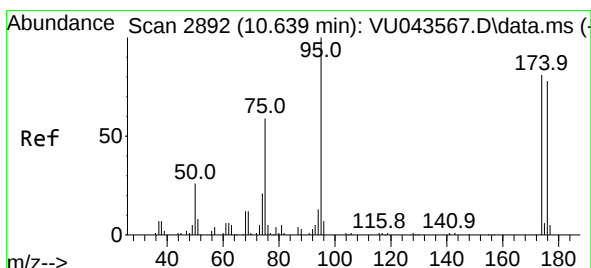
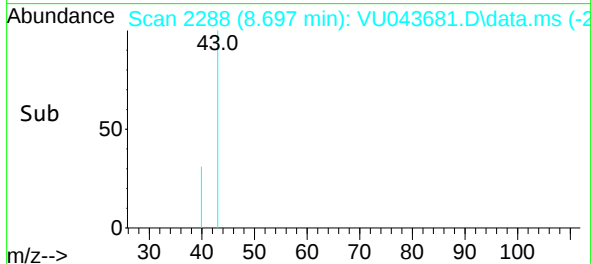
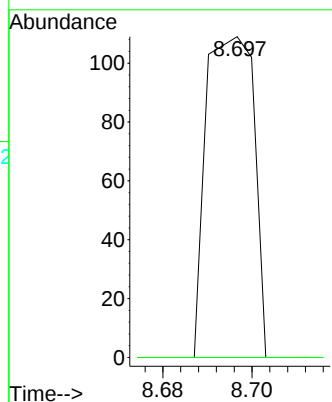
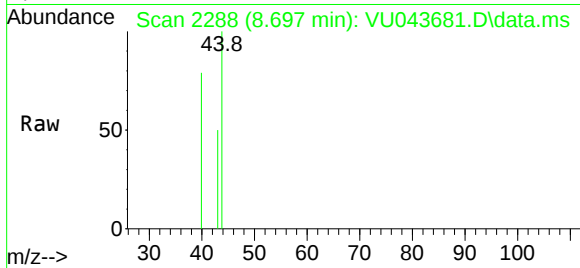




#59  
2-Hexanone  
Concen: 20.73 ug/l  
RT: 8.697 min Scan# 2288  
Delta R.T. 0.007 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

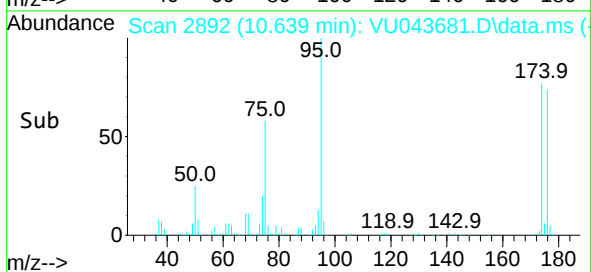
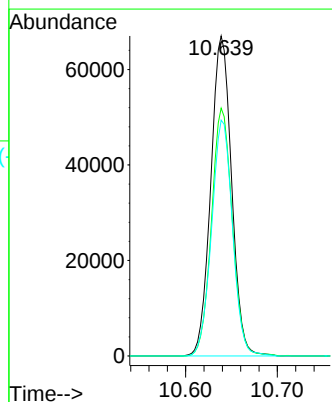
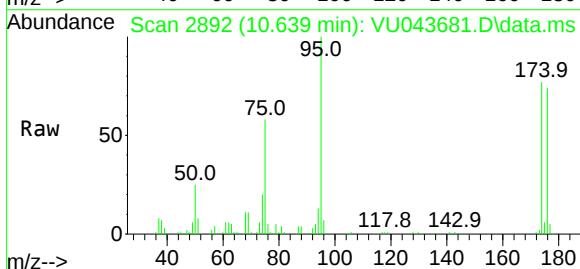
Instrument :  
MSVOA\_U  
ClientSampled :

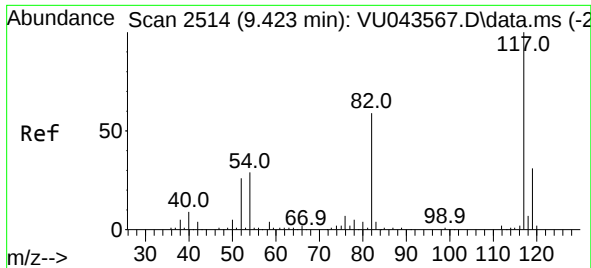
Tgt Ion: 43 Resp: 81  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.4 70.2#



#62  
4-Bromofluorobenzene  
Concen: 45.67 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion: 95 Resp: 105527  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 158.8  
176 74.1 0.0 155.6

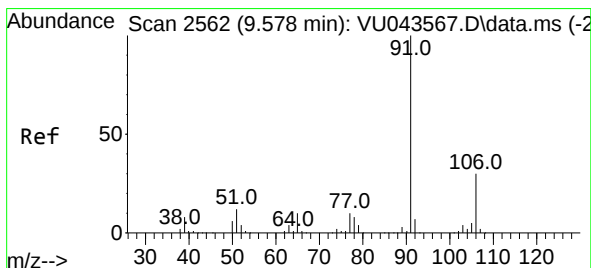
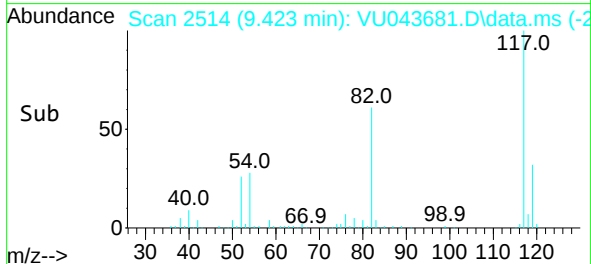
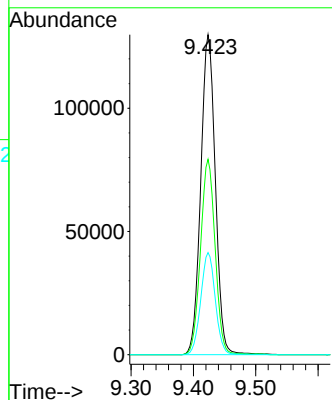
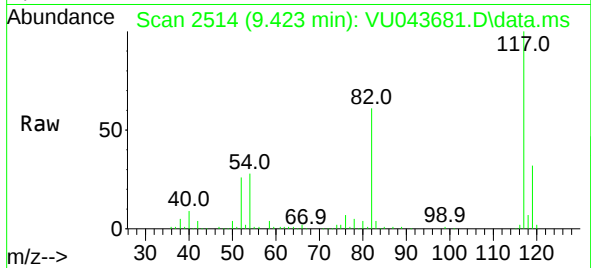




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.423 min Scan# 2514  
Delta R.T. 0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

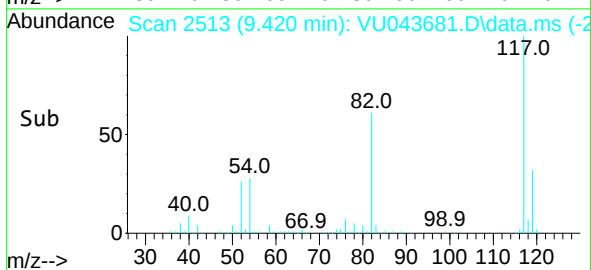
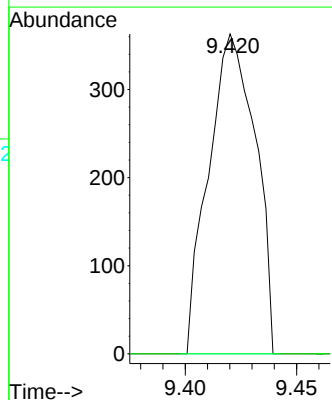
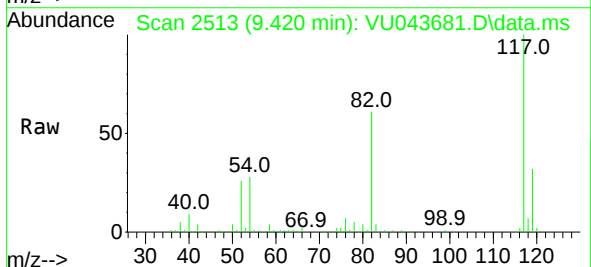
Instrument :  
MSVOA\_U  
ClientSampled :

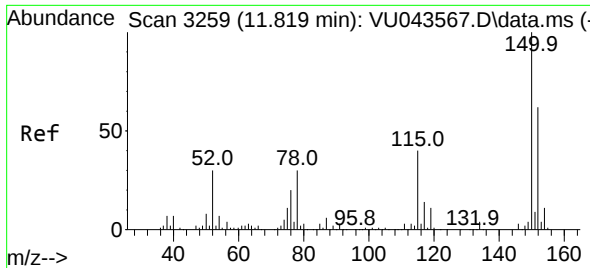
Tgt Ion:117 Resp: 211741  
Ion Ratio Lower Upper  
117 100  
82 61.1 47.5 71.3  
119 31.9 24.7 37.1



#67  
Ethyl Benzene  
Concen: 1.51 ug/l  
RT: 9.420 min Scan# 2513  
Delta R.T. -0.158 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion: 91 Resp: 530  
Ion Ratio Lower Upper  
91 100  
106 0.0 24.0 36.0#

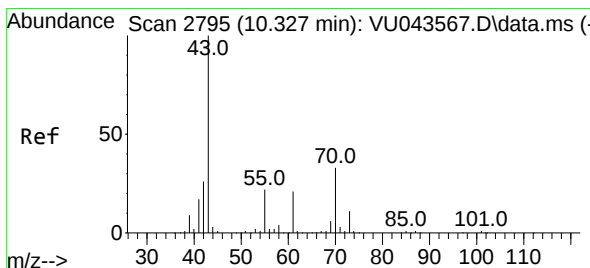
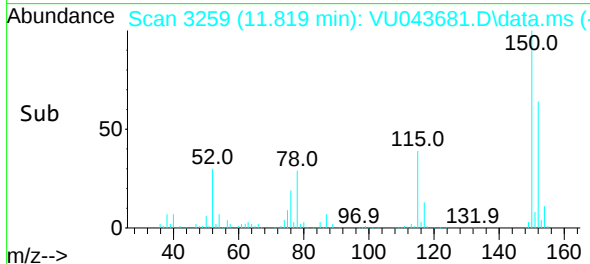
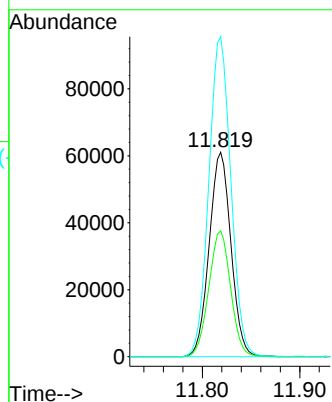
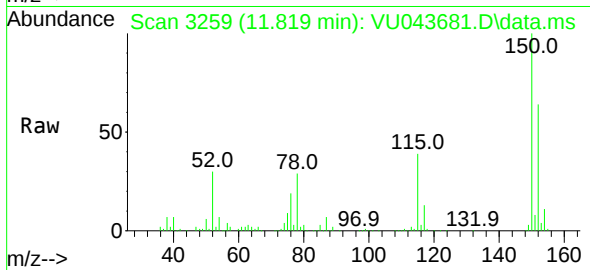




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.819 min Scan# 3259  
Delta R.T. -0.000 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

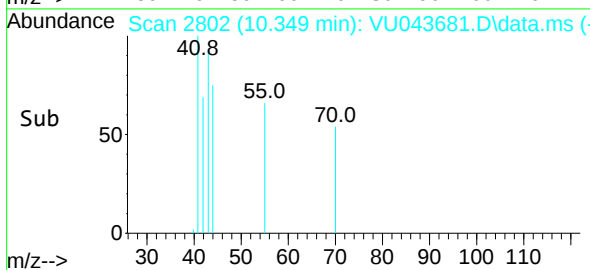
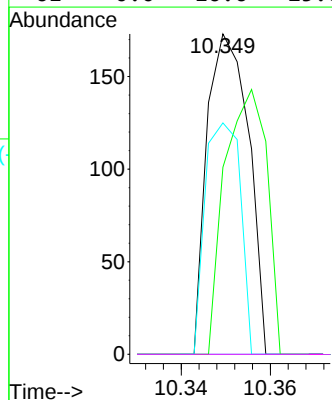
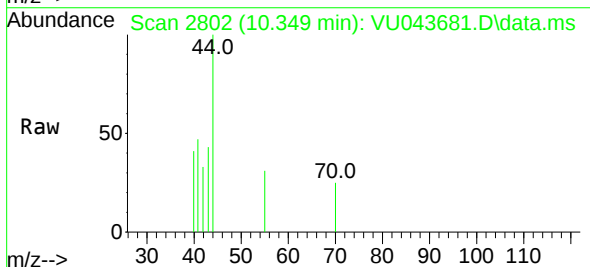
Instrument :  
MSVOA\_U  
ClientSampleId :

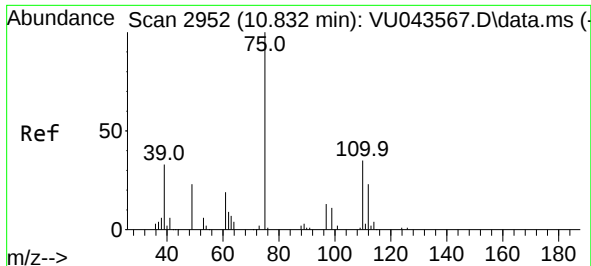
Tgt Ion:152 Resp: 94813  
Ion Ratio Lower Upper  
152 100  
115 61.7 46.1 138.3  
150 158.2 0.0 361.0



#74  
N-ethyl acetate  
Concen: 2.54 ug/l  
RT: 10.349 min Scan# 2802  
Delta R.T. 0.022 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion: 43 Resp: 111  
Ion Ratio Lower Upper  
43 100  
70 84.7 26.4 39.6#  
55 61.3 18.0 27.0#  
61 0.0 16.6 25.0#

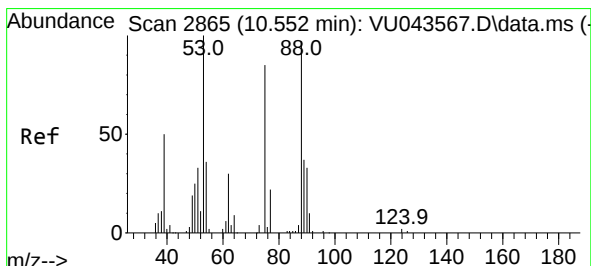
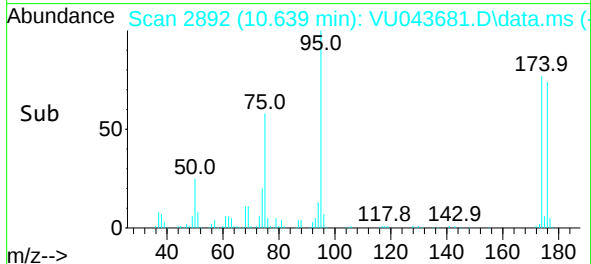
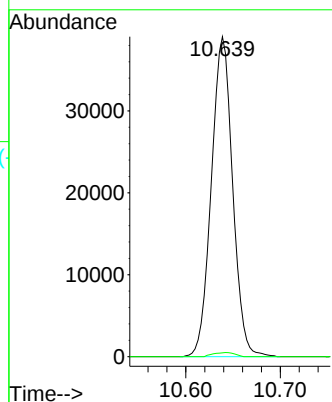
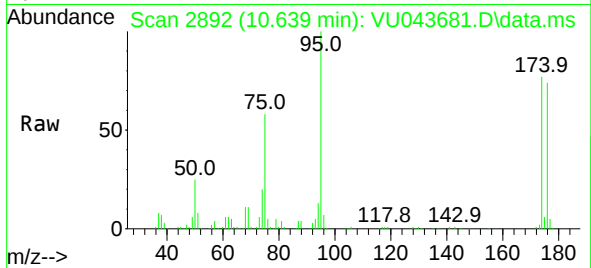




#76  
1,2,3-Trichloropropane  
Concen: 20.28 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.193 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

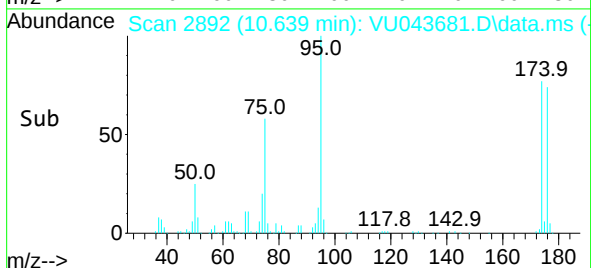
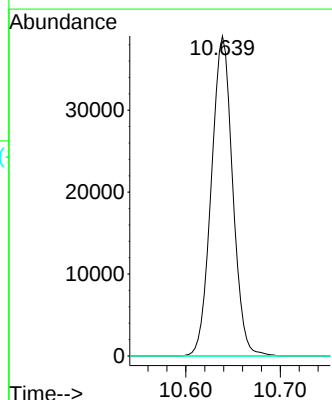
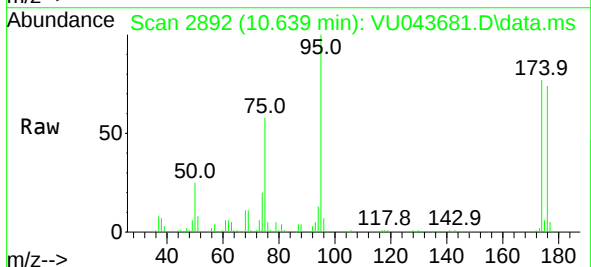
Instrument :  
MSVOA\_U  
ClientSampled :

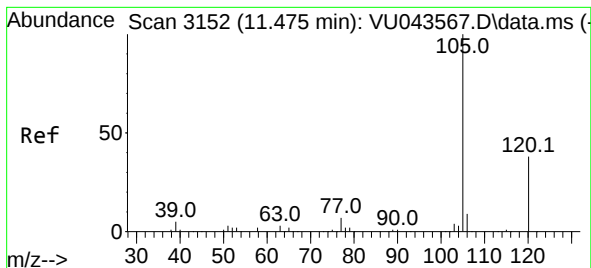
Tgt Ion: 75 Resp: 61132  
Ion Ratio Lower Upper  
75 100  
77 1.3 17.1 51.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.04 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. 0.087 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion: 75 Resp: 61132  
Ion Ratio Lower Upper  
75 100  
53 0.0 95.8 143.8#  
89 0.0 36.1 54.1#

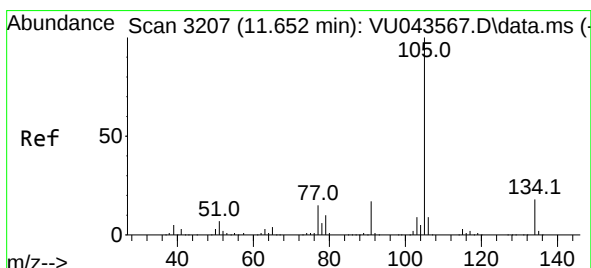
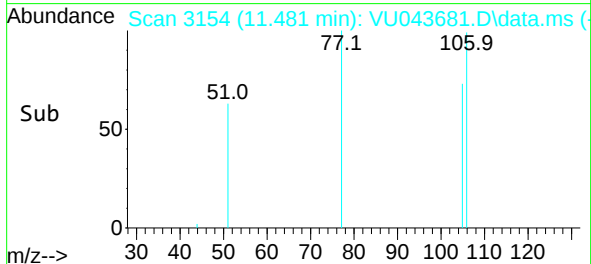
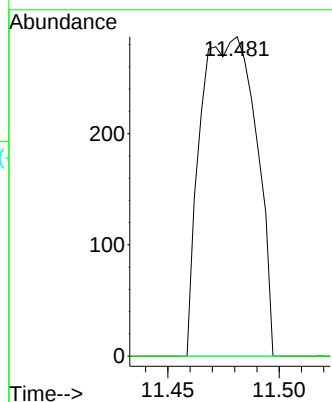
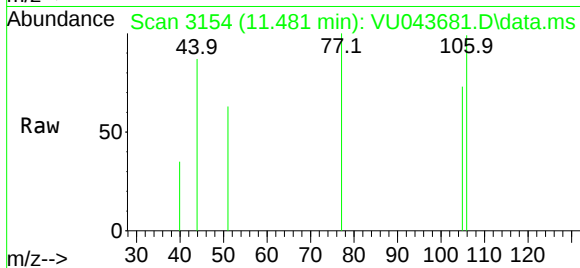




#84  
1,2,4-Trimethylbenzene  
Concen: 1.19 ug/l  
RT: 11.481 min Scan# 3154  
Delta R.T. 0.006 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

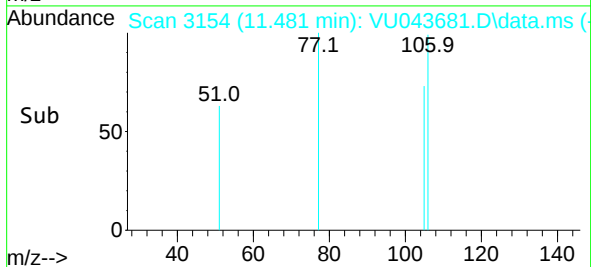
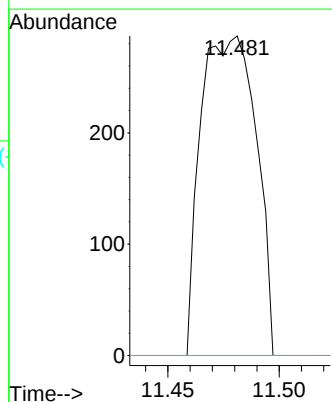
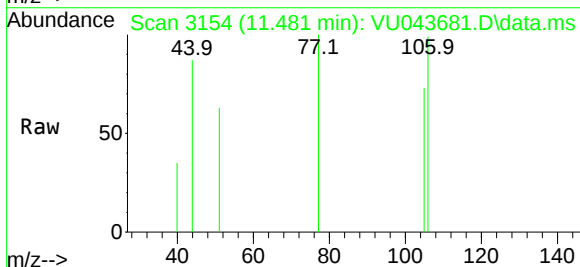
Instrument :  
MSVOA\_U  
ClientSampled :

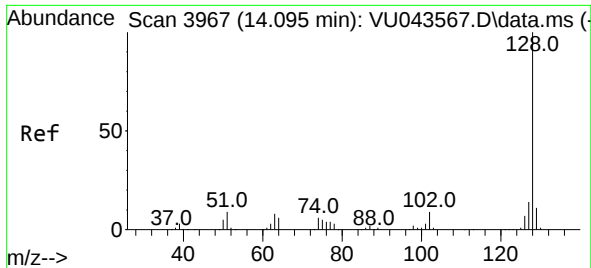
Tgt Ion:105 Resp: 494  
Ion Ratio Lower Upper  
105 100  
120 0.0 21.4 64.2#



#85  
sec-Butylbenzene  
Concen: 1.40 ug/l  
RT: 11.481 min Scan# 3154  
Delta R.T. -0.171 min  
Lab File: VU043681.D  
Acq: 12 May 2021 16:39

Tgt Ion:105 Resp: 494  
Ion Ratio Lower Upper  
105 100  
134 0.0 9.2 27.6#





#95

Naphthalene

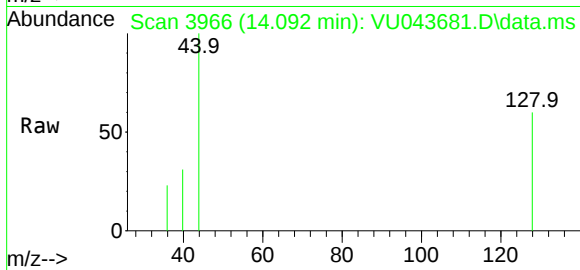
Concen: 1.57 ug/l

RT: 14.092 min Scan# 3966

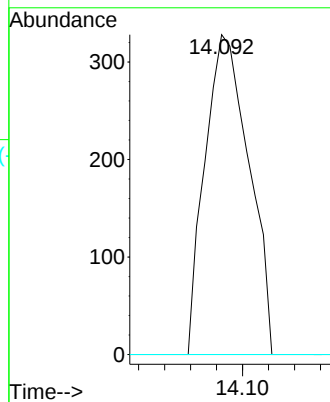
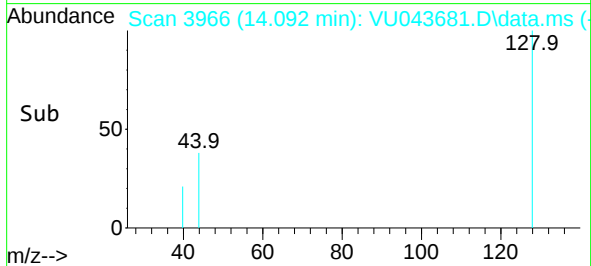
Delta R.T. -0.003 min

Lab File: VU043681.D

Acq: 12 May 2021 16:39



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 386   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.7  | 16.1# |
| 129      | 0.0   | 8.6   | 12.8# |



Instrument :  
MSVOA\_U  
ClientSampleId :