

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060222\  
 Data File : VU048838.D  
 Acq On : 03 Jun 2022 05:36  
 Operator : SY/MD  
 Sample : N3165-02 50X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 49BR-20220531

Quant Time: Jun 03 06:57:23 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052622W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 27 06:42:31 2022  
 Response via : Initial Calibration

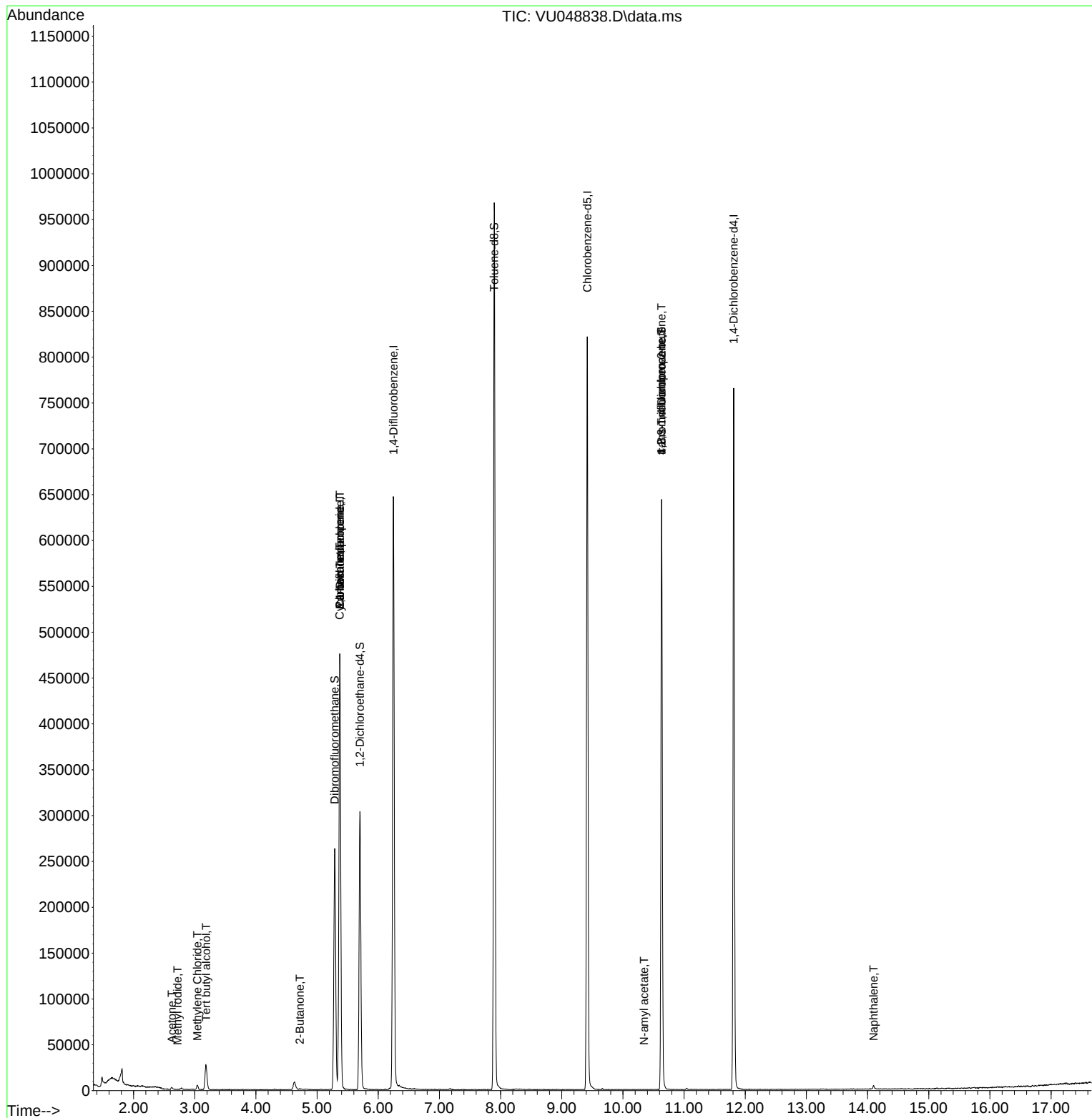
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.372          | 168  | 318061     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.250          | 114  | 520980     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417          | 117  | 456488     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812         | 152  | 201972     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.700          | 65   | 226615     | 47.442    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.880%   |        |          |
| 35) Dibromofluoromethane      | 5.288          | 113  | 171931     | 46.258    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.520%   |        |          |
| 50) Toluene-d8                | 7.896          | 98   | 631650     | 47.409    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 94.820%   |        |          |
| 62) 4-Bromofluorobenzene      | 10.632         | 95   | 216284     | 42.924    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 85.840%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 5) Bromomethane               | 1.838          | 94   | 355        | Below Cal | #      | 49       |
| 6) Chloroethane               | 1.954          | 64   | 221        | Below Cal | #      | 43       |
| 10) Methyl Iodide             | 2.719          | 142  | 46         | 3.013     | ug/l # | 37       |
| 11) Tert butyl alcohol        | 3.186          | 59   | 16775      | 13.852    | ug/l # | 28       |
| 13) Acrolein                  | 2.401          | 56   | 20         | Below Cal | #      | 67       |
| 16) Acetone                   | 2.626          | 43   | 2556       | 1.050     | ug/l # | 87       |
| 20) Methylene Chloride        | 3.041          | 84   | 2187       | 0.528     | ug/l   | 95       |
| 25) 2-Butanone                | 4.716          | 43   | 1436       | 0.411     | ug/l   | 90       |
| 31) Cyclohexane               | 5.369          | 56   | 6687       | 1.111     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.372          | 75   | 25666      | 4.731     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.372          | 117  | 32921      | 5.290     | ug/l # | 17       |
| 74) N-amyl acetate            | 10.346         | 43   | 50         | 2.474     | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane    | 10.632         | 75   | 111549     | 17.130    | ug/l # | 47       |
| 81) trans-1,4-Dichloro-2-b... | 10.632         | 75   | 111549     | 62.195    | ug/l # | 13       |
| 95) Naphthalene               | 14.098         | 128  | 3938       | 2.768     | ug/l # | 94       |
| -----                         |                |      |            |           |        |          |

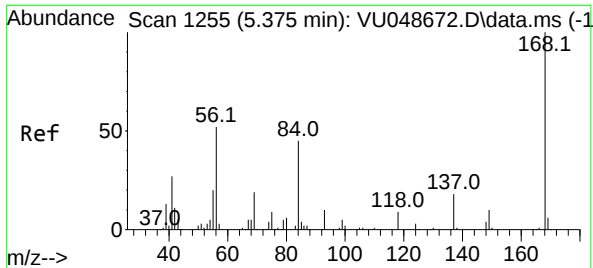
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri May 27 06:42:31 2022  
Response via : Initial Calibration

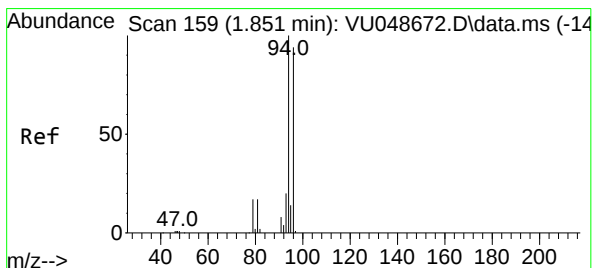
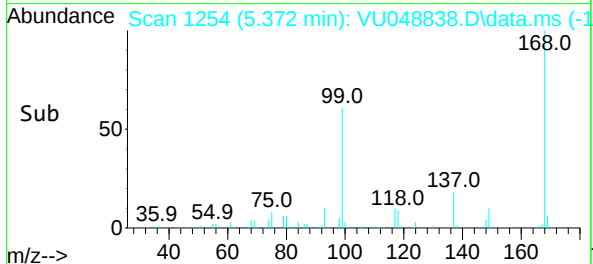
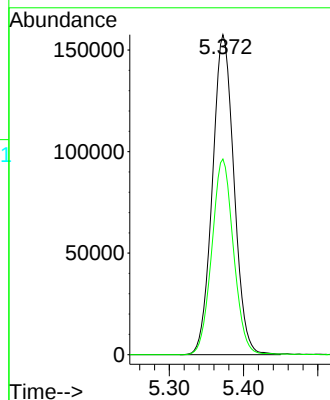
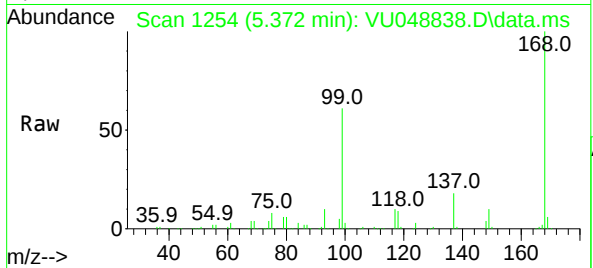




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.372 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

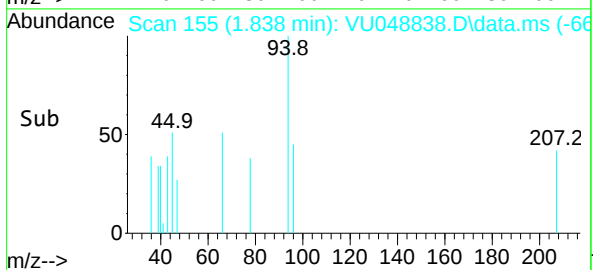
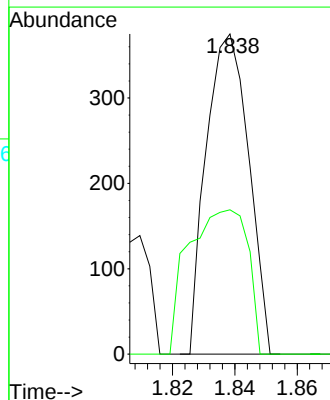
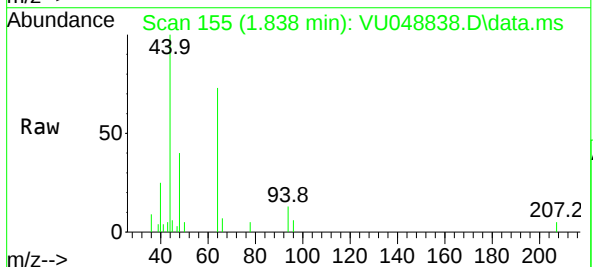
Instrument :  
MSVOA\_U  
ClientSampleId :  
49BR-20220531

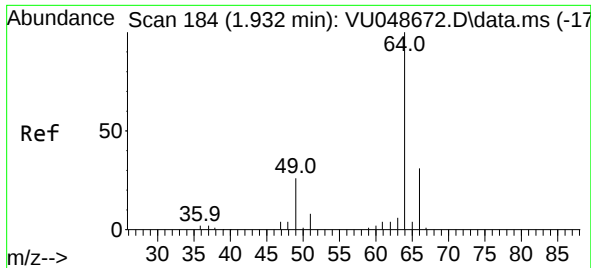
Tgt Ion:168 Resp: 318061  
Ion Ratio Lower Upper  
168 100  
99 61.1 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.838 min Scan# 155  
Delta R.T. -0.013 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

Tgt Ion: 94 Resp: 355  
Ion Ratio Lower Upper  
94 100  
96 45.1 75.1 112.7#

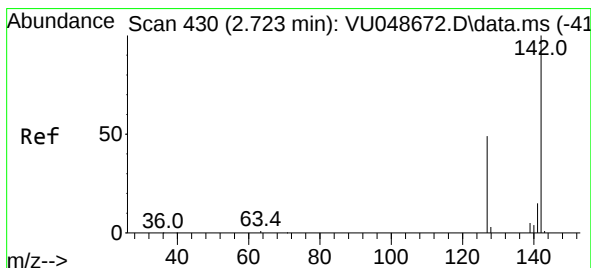
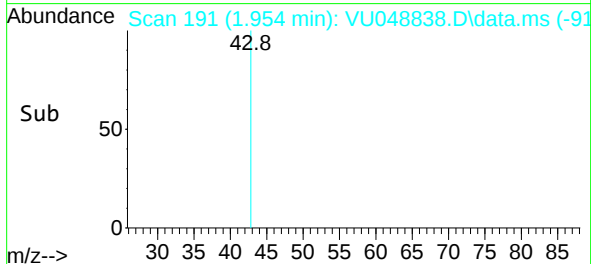
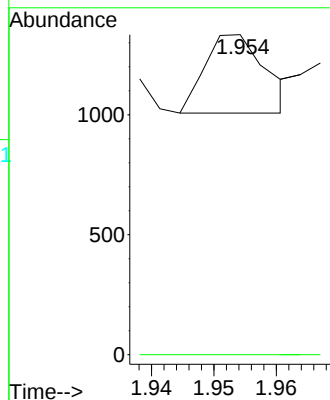
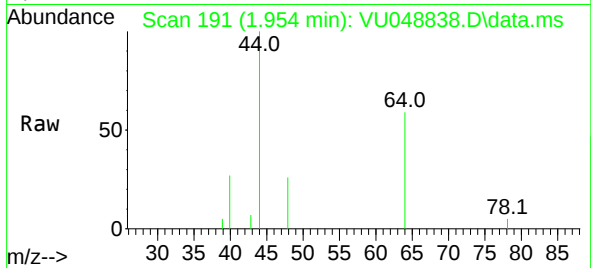




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.954 min Scan# 191  
Delta R.T. 0.022 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

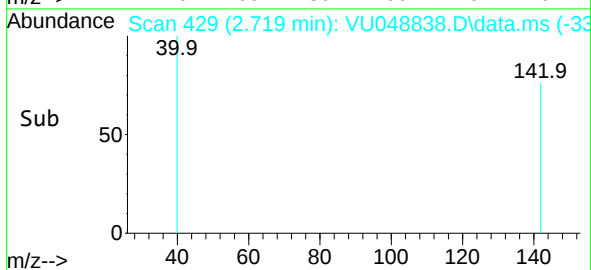
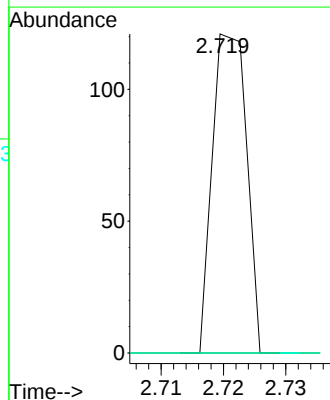
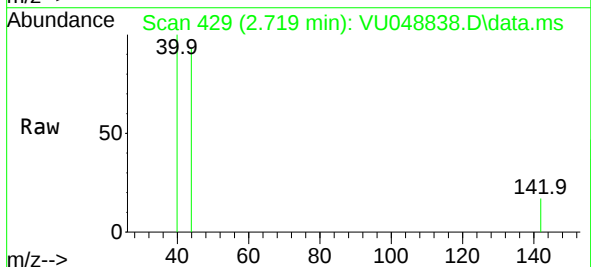
Instrument :  
MSVOA\_U  
ClientSampleId :  
49BR-20220531

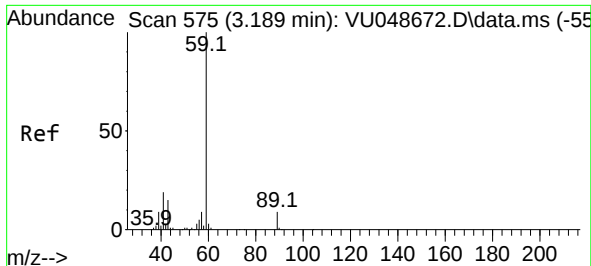
Tgt Ion: 64 Resp: 221  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.2 37.8#



#10  
Methyl Iodide  
Concen: 3.013 ug/l  
RT: 2.719 min Scan# 429  
Delta R.T. -0.004 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

Tgt Ion:142 Resp: 46  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.4 57.6#  
141 0.0 11.5 17.3#

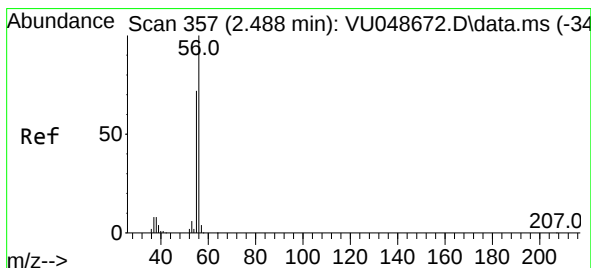
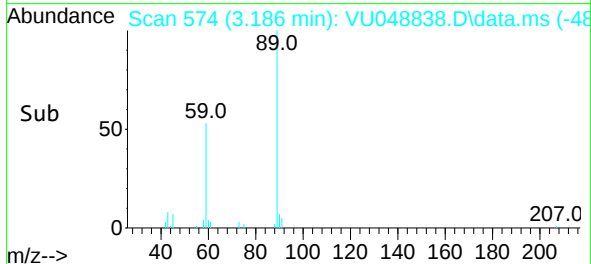
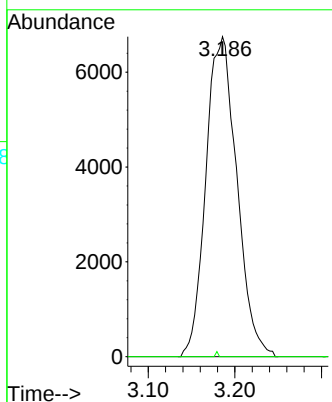
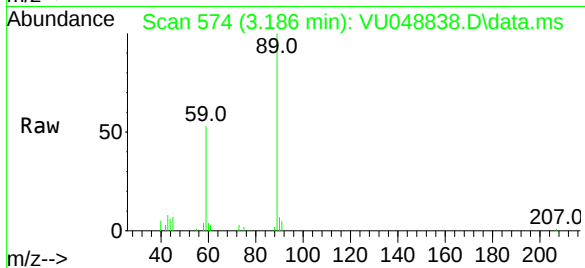




#11  
Tert butyl alcohol  
Concen: 13.852 ug/l  
RT: 3.186 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

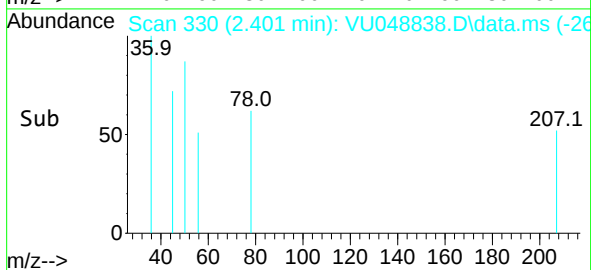
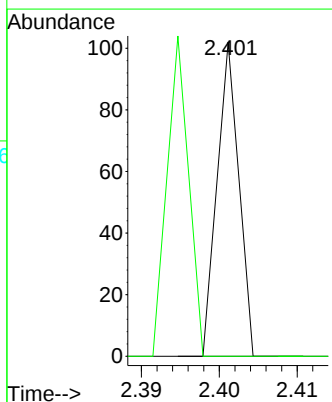
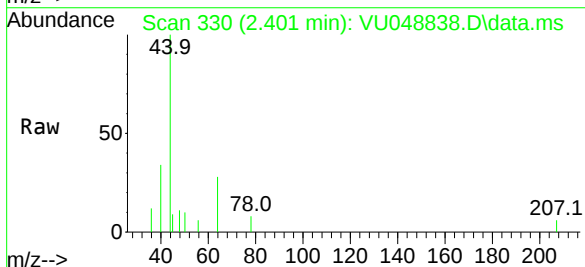
Instrument :  
MSVOA\_U  
ClientSampleId :  
49BR-20220531

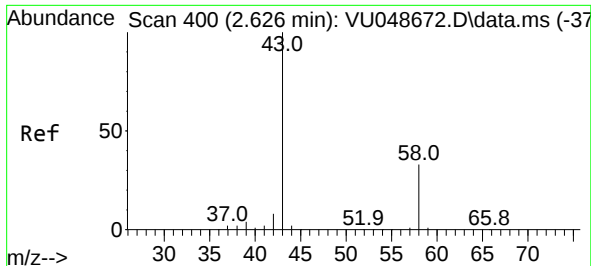
Tgt Ion: 59 Resp: 16775  
Ion Ratio Lower Upper  
59 100  
57 0.1 39.7 59.5#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.401 min Scan# 330  
Delta R.T. -0.087 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

Tgt Ion: 56 Resp: 20  
Ion Ratio Lower Upper  
56 100  
55 100.0 57.7 86.5#

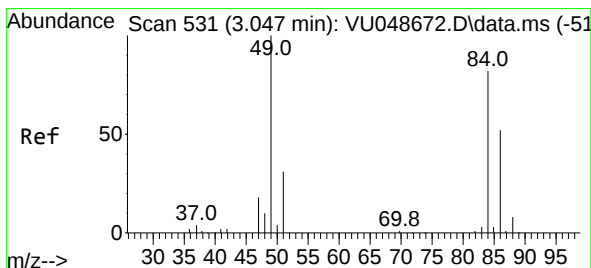
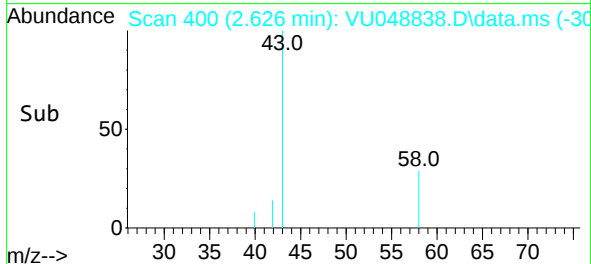
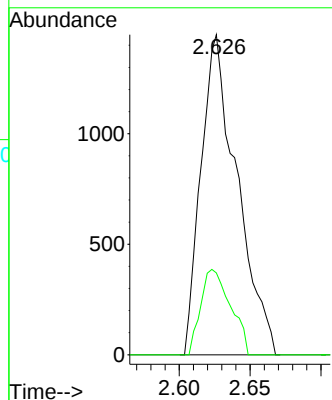
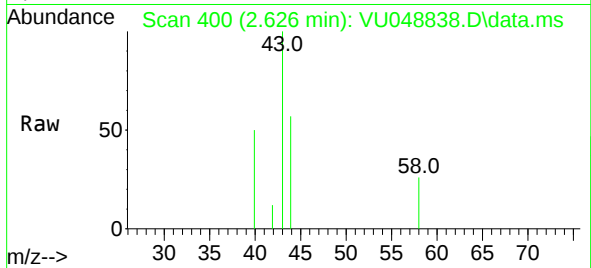




#16  
Acetone  
Concen: 1.050 ug/l  
RT: 2.626 min Scan# 40  
Delta R.T. -0.000 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

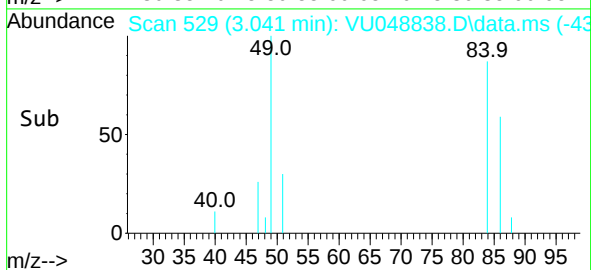
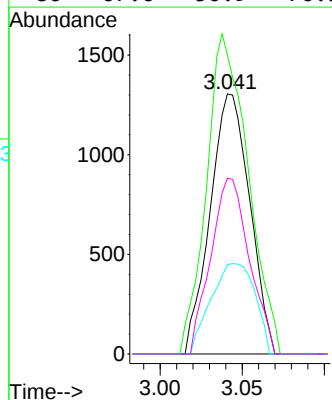
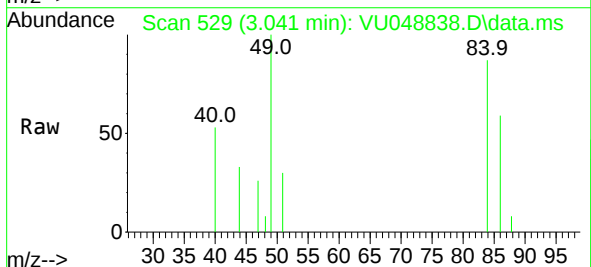
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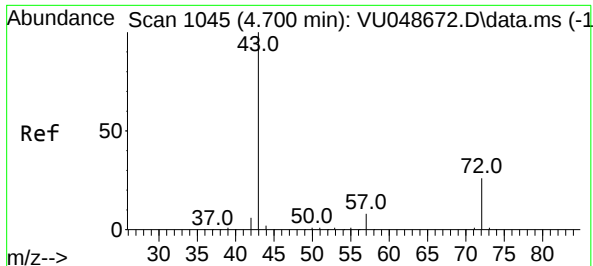
Tgt Ion: 43 Resp: 2556  
Ion Ratio Lower Upper  
43 100  
58 25.6 26.3 39.5#



#20  
Methylene Chloride  
Concen: 0.528 ug/l  
RT: 3.041 min Scan# 529  
Delta R.T. -0.006 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

Tgt Ion: 84 Resp: 2187  
Ion Ratio Lower Upper  
84 100  
49 115.0 97.0 145.4  
51 34.3 29.8 44.8  
86 67.6 50.9 76.3





#25

2-Butanone

Concen: 0.411 ug/l

RT: 4.716 min Scan# 1

Delta R.T. 0.016 min

Lab File: VU048838.D

Acq: 03 Jun 2022 05:36

Instrument :

MSVOA\_U

ClientSampleId :

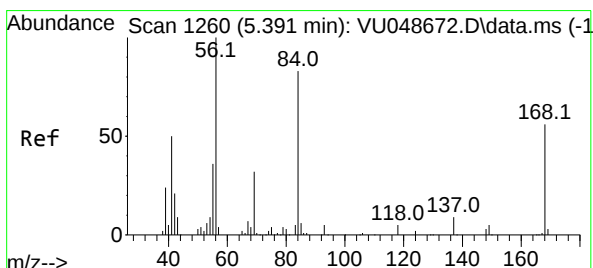
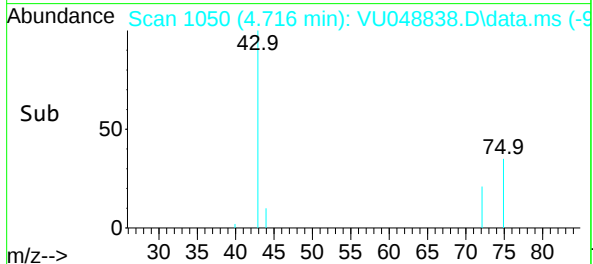
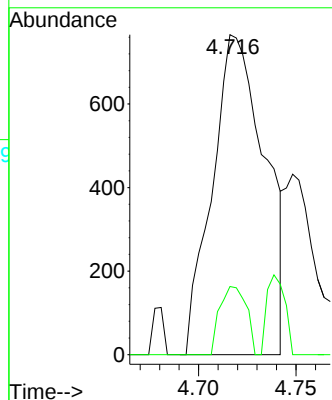
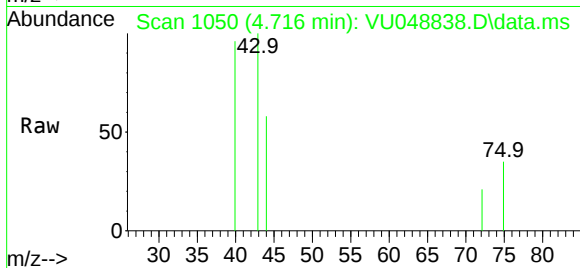
49BR-20220531

Tgt Ion: 43 Resp: 1436

Ion Ratio Lower Upper

43 100

72 21.3 21.1 31.7



#31

Cyclohexane

Concen: 1.111 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.023 min

Lab File: VU048838.D

Acq: 03 Jun 2022 05:36

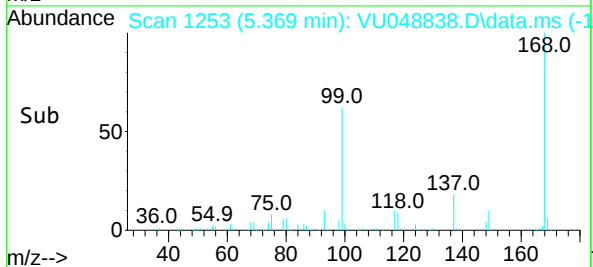
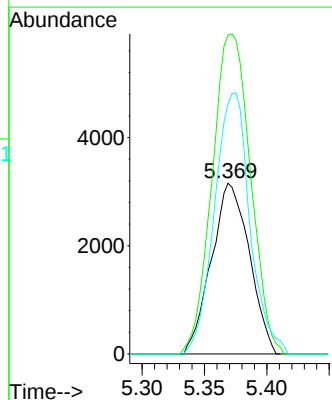
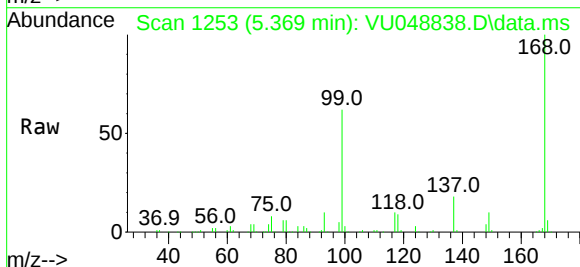
Tgt Ion: 56 Resp: 6687

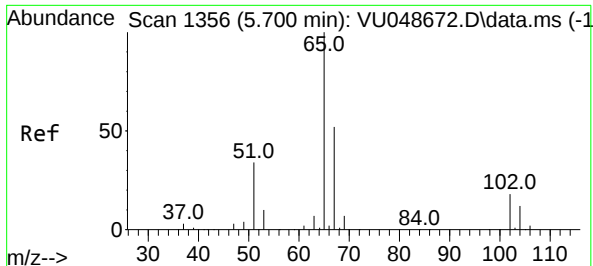
Ion Ratio Lower Upper

56 100

69 186.9 25.6 38.4#

84 146.7 66.2 99.4#





#33

1,2-Dichloroethane-d4

Concen: 47.442 ug/l

RT: 5.700 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU048838.D

Acq: 03 Jun 2022 05:36

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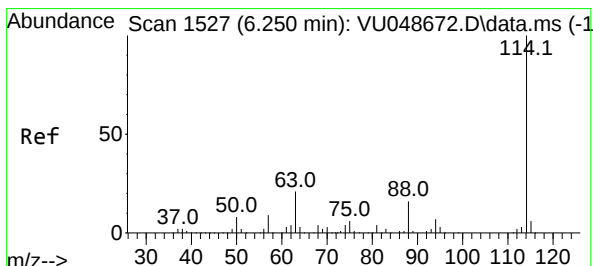
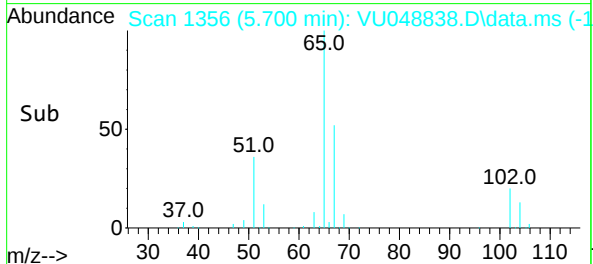
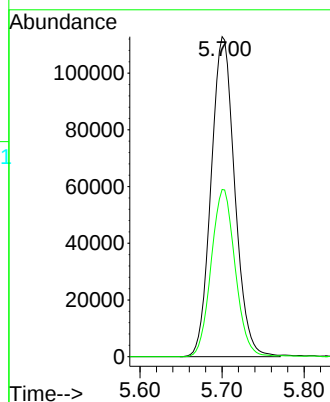
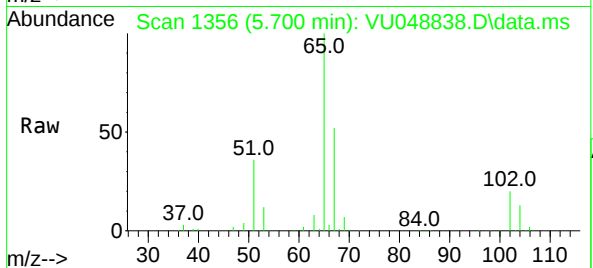
49BR-20220531

Tgt Ion: 65 Resp: 226615

Ion Ratio Lower Upper

65 100

67 52.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. -0.000 min

Lab File: VU048838.D

Acq: 03 Jun 2022 05:36

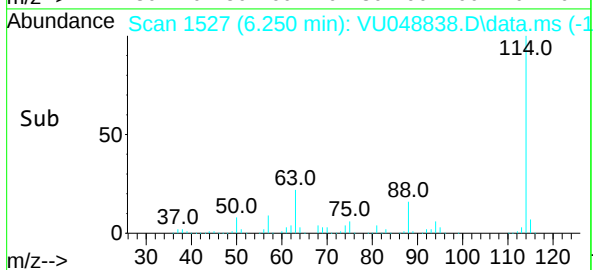
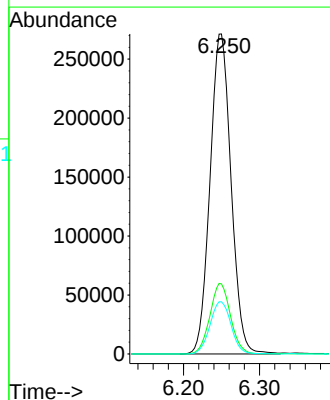
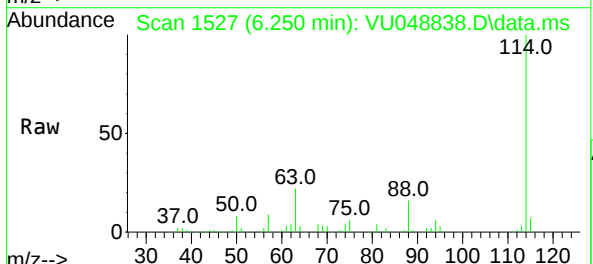
Tgt Ion: 114 Resp: 520980

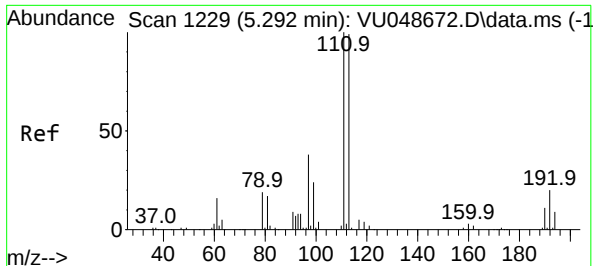
Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.6

88 16.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 46.258 ug/l

RT: 5.288 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU048838.D

Acq: 03 Jun 2022 05:36

Instrument :

MSVOA\_U

ClientSampleId :

49BR-20220531

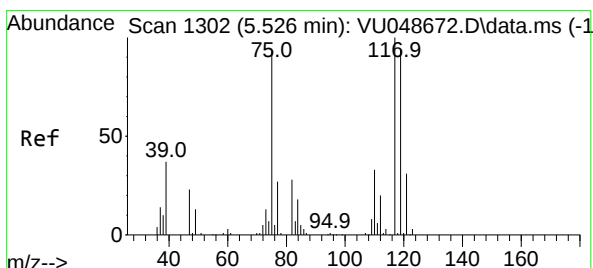
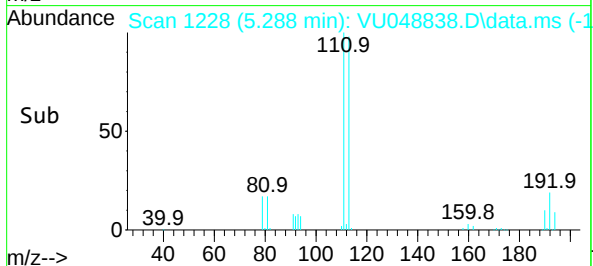
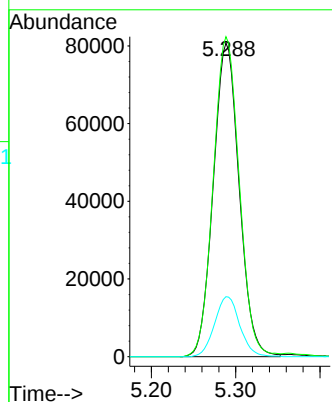
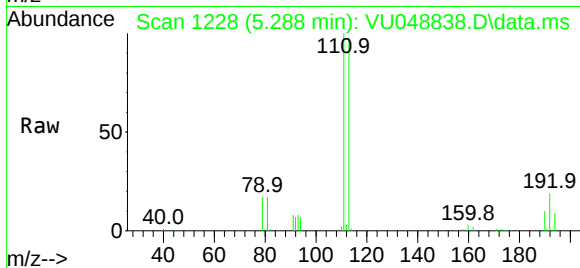
Tgt Ion:113 Resp: 171931

Ion Ratio Lower Upper

113 100

111 102.5 80.7 121.1

192 18.7 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.731 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.154 min

Lab File: VU048838.D

Acq: 03 Jun 2022 05:36

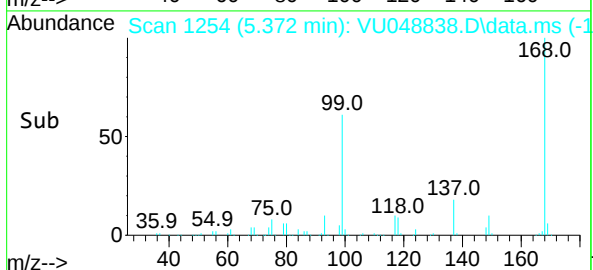
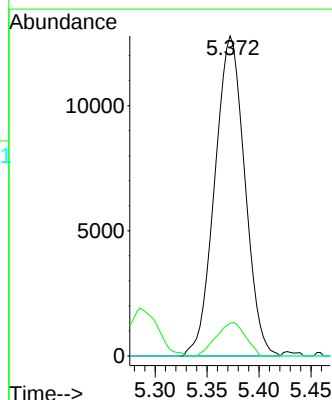
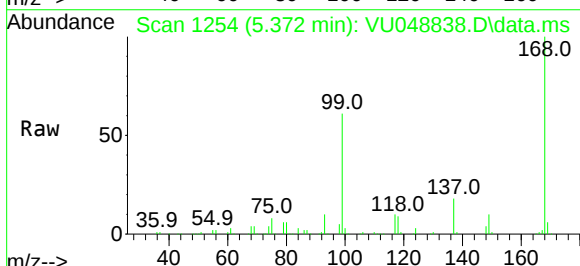
Tgt Ion: 75 Resp: 25666

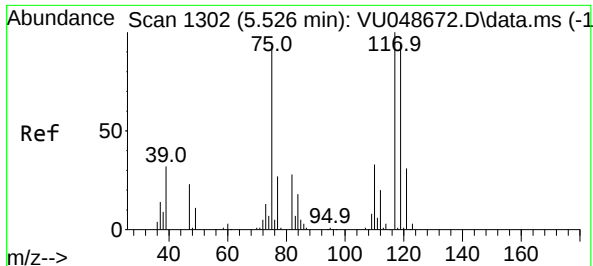
Ion Ratio Lower Upper

75 100

110 10.1 17.4 52.3#

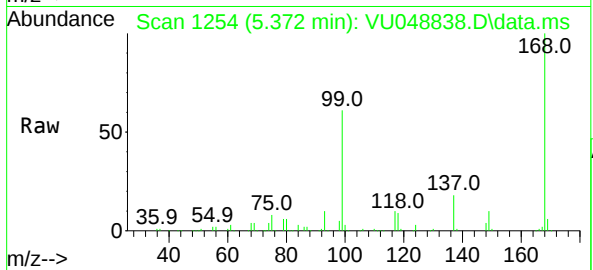
77 0.0 24.8 37.2#



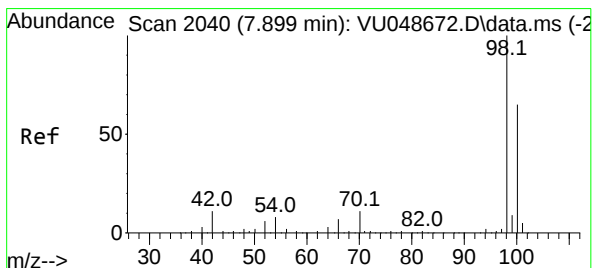
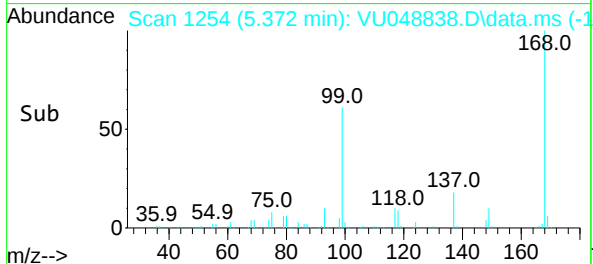
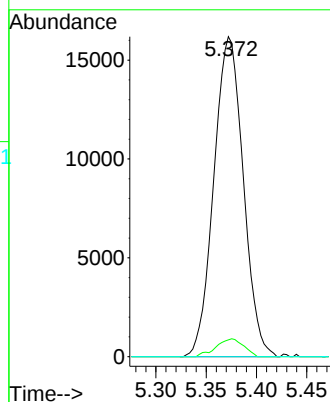


#38  
Carbon Tetrachloride  
Concen: 5.290 ug/l  
RT: 5.372 min Scan# 117  
Delta R.T. -0.154 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
49BR-20220531

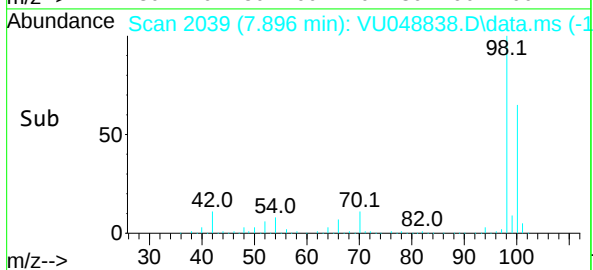
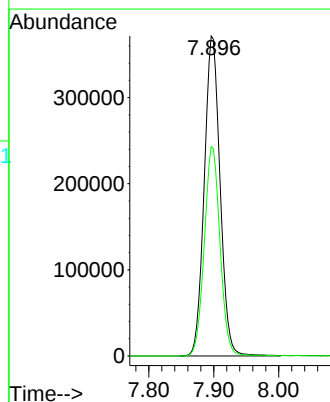
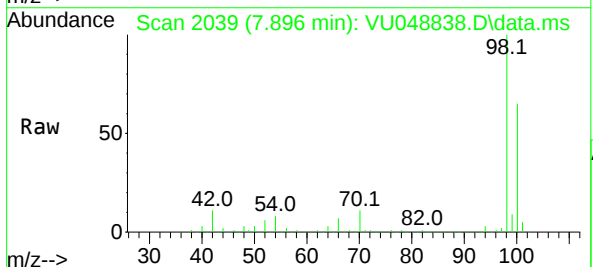


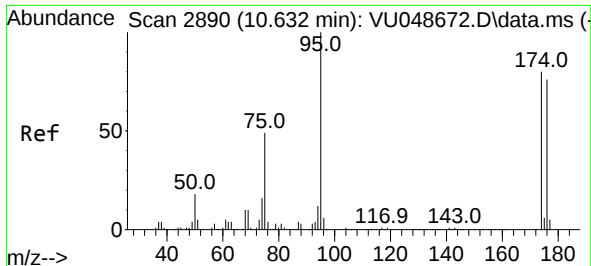
Tgt Ion:117 Resp: 32921  
Ion Ratio Lower Upper  
117 100  
119 5.2 75.4 113.2#  
121 0.0 24.6 36.8#



#50  
Toluene-d8  
Concen: 47.409 ug/l  
RT: 7.896 min Scan# 2039  
Delta R.T. -0.003 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

Tgt Ion: 98 Resp: 631650  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.2 78.4

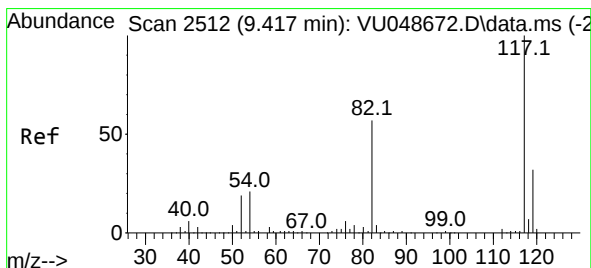
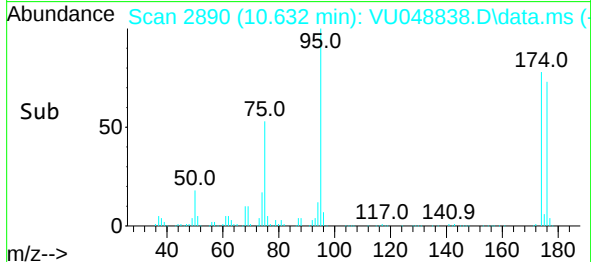
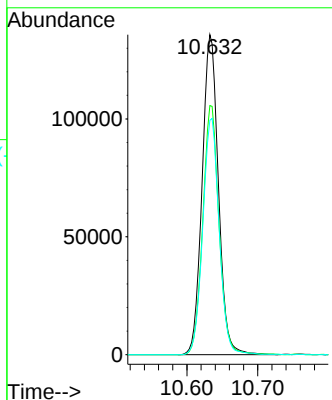
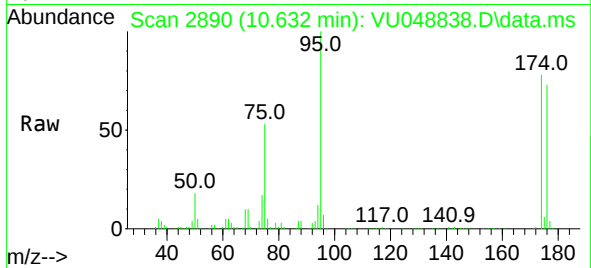




#62  
4-Bromofluorobenzene  
Concen: 42.924 ug/l  
RT: 10.632 min Scan# 216284  
Delta R.T. -0.000 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

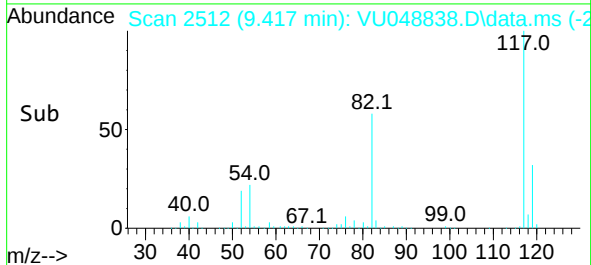
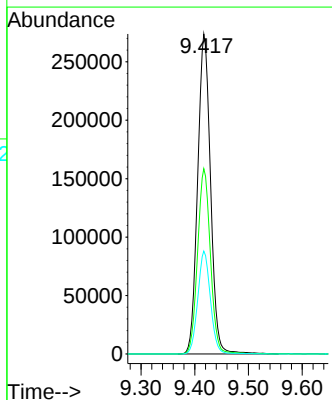
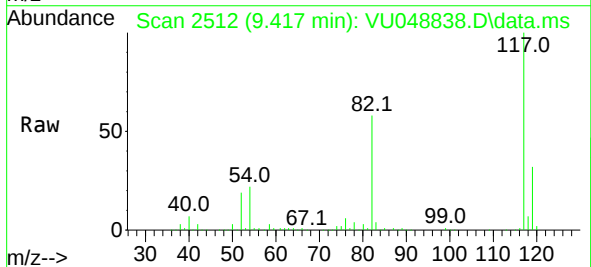
Instrument : MSVOA\_U  
ClientSampleId : 49BR-20220531

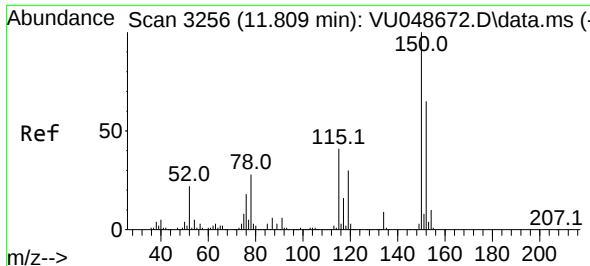
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 216284 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 77.8  | 0.0   | 159.4  |
| 176      | 74.4  | 0.0   | 152.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.417 min Scan# 2512  
Delta R.T. -0.000 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 456488 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 57.9  | 45.3  | 67.9   |
| 119      | 32.1  | 25.4  | 38.2   |

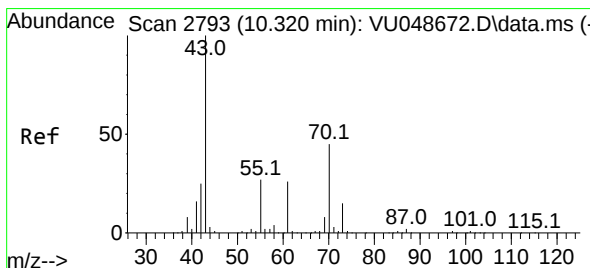
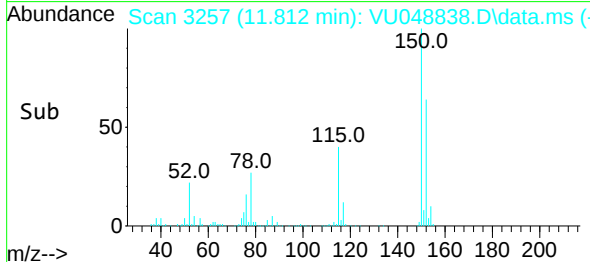
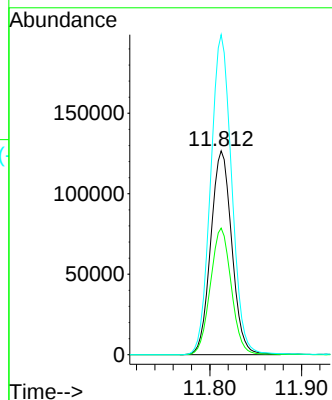
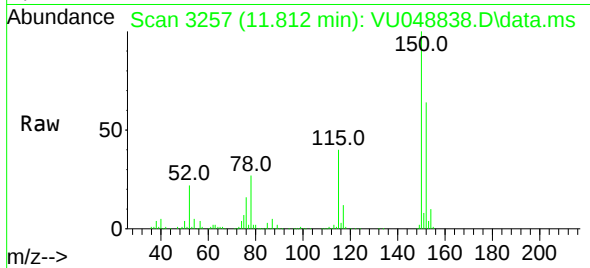




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.812 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

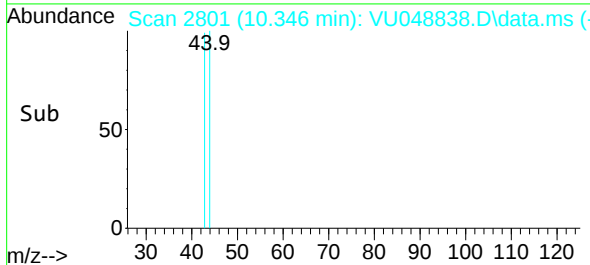
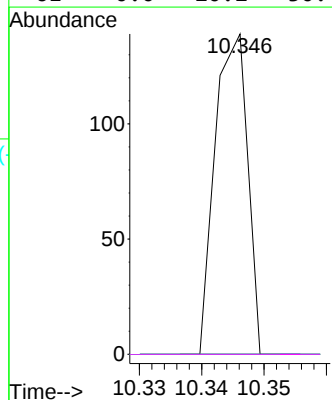
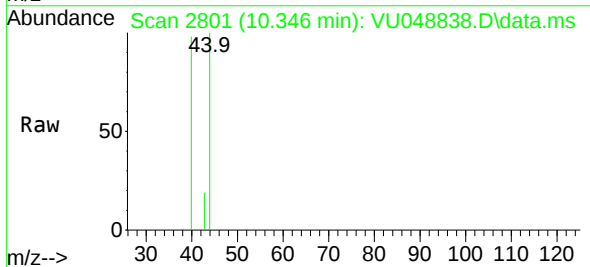
Instrument :  
MSVOA\_U  
ClientSampleId :  
49BR-20220531

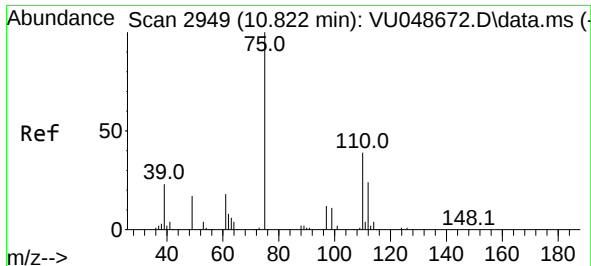
Tgt Ion:152 Resp: 201972  
Ion Ratio Lower Upper  
152 100  
115 61.6 41.8 125.4  
150 157.3 0.0 341.0



#74  
N-ethyl acetate  
Concen: 2.474 ug/l  
RT: 10.346 min Scan# 2801  
Delta R.T. 0.026 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

Tgt Ion: 43 Resp: 50  
Ion Ratio Lower Upper  
43 100  
70 0.0 35.8 53.6#  
55 0.0 21.1 31.7#  
61 0.0 20.2 30.4#

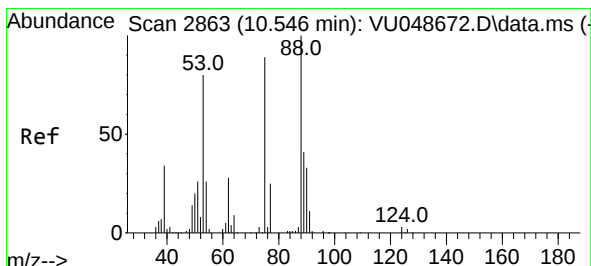
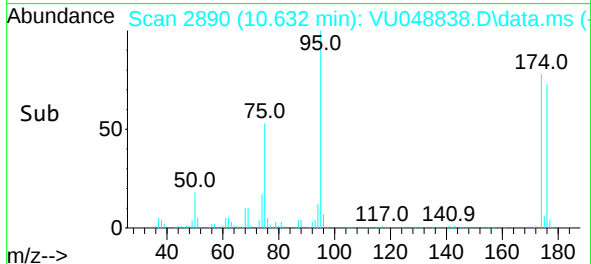
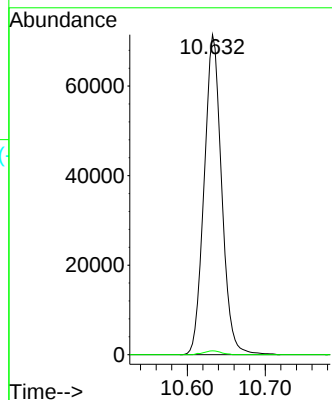
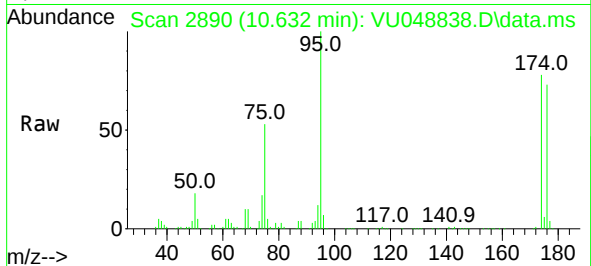




#76  
1,2,3-Trichloropropane  
Concen: 17.130 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. -0.190 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

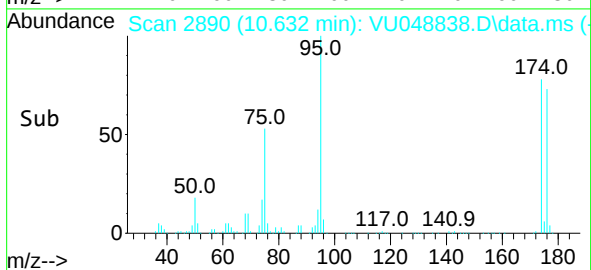
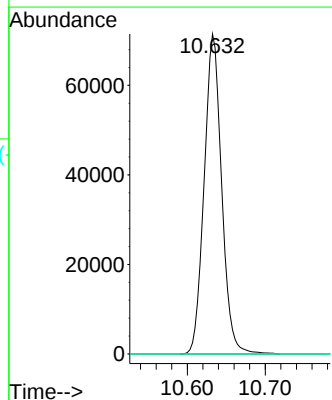
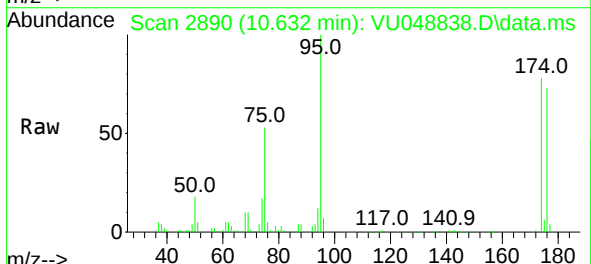
Instrument :  
MSVOA\_U  
ClientSampleId :  
49BR-20220531

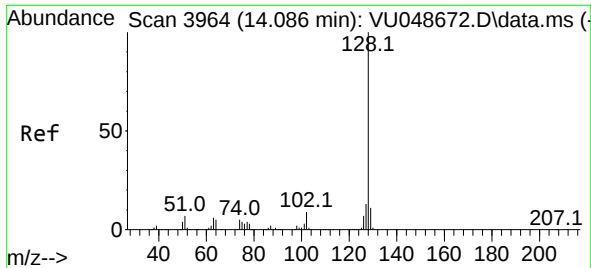
Tgt Ion: 75 Resp: 111549  
Ion Ratio Lower Upper  
75 100  
77 1.2 14.8 44.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.195 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. 0.087 min  
Lab File: VU048838.D  
Acq: 03 Jun 2022 05:36

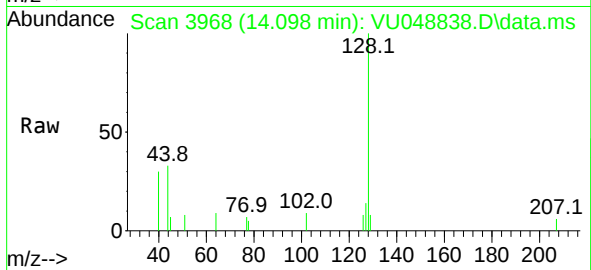
Tgt Ion: 75 Resp: 111549  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.5 108.7#  
89 0.0 37.0 55.4#





#95  
 Naphthalene  
 Concen: 2.768 ug/l  
 RT: 14.098 min Scan# 3968  
 Delta R.T. 0.012 min  
 Lab File: VU048838.D  
 Acq: 03 Jun 2022 05:36

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 49BR-20220531



Tgt Ion:128 Resp: 3938  
 Ion Ratio Lower Upper  
 128 100  
 127 11.3 10.2 15.4  
 129 8.0 8.7 13.1#

