

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052623\  
 Data File : VU054296.D  
 Acq On : 26 May 2023 19:23  
 Operator : JC/MD  
 Sample : 02936-17 40X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 29BR-20230524

Quant Time: May 30 00:05:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 26 06:40:51 2023  
 Response via : Initial Calibration

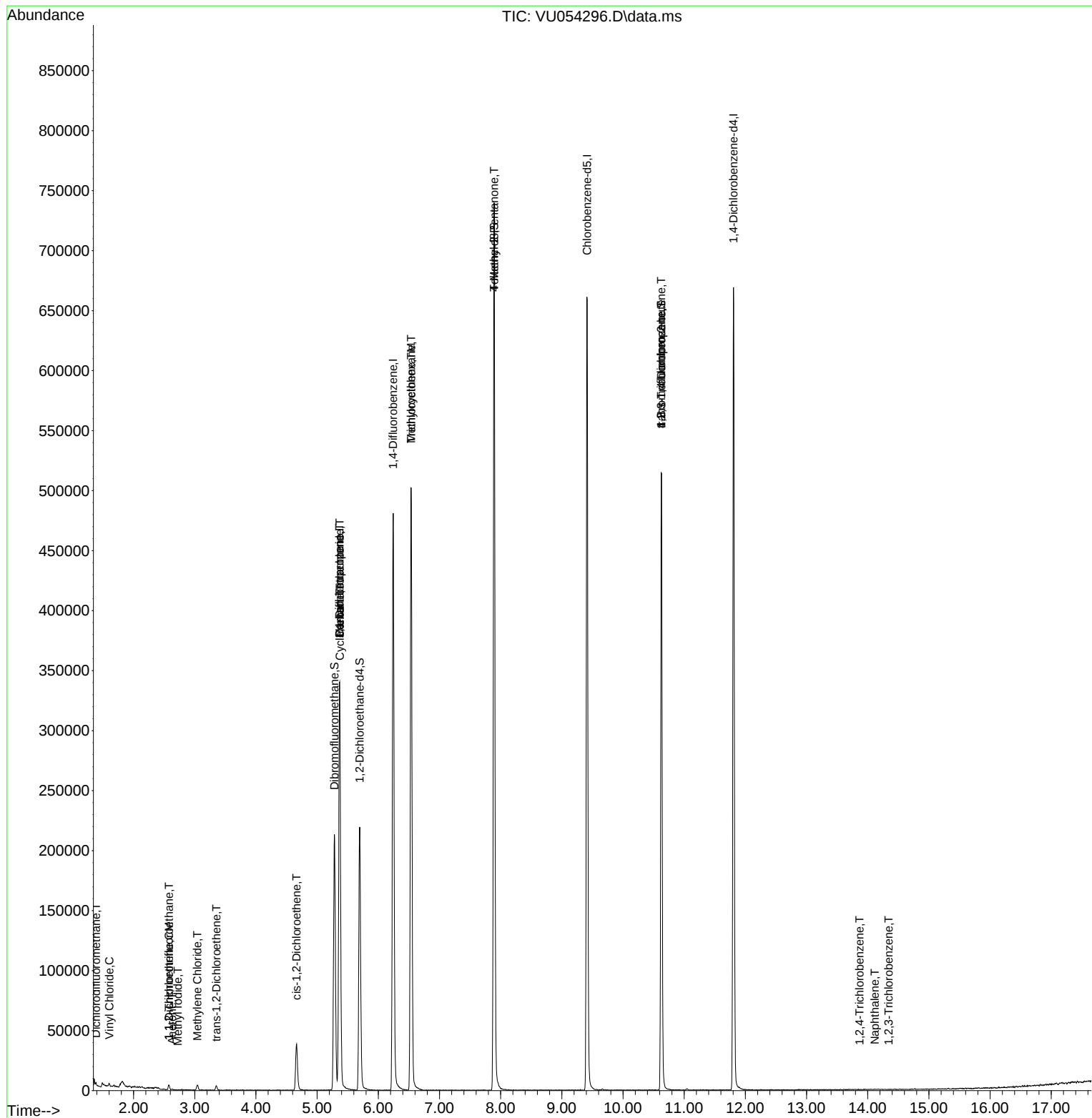
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.369     | 168   | 248269   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.243     | 114   | 400603   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 9.414     | 117   | 376671   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.806    | 152   | 186526   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.697     | 65    | 165643   | 50.896   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery | = 101.800% |          |
| 35) Dibromofluoromethane      | 5.282     | 113   | 136558   | 52.934   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery | = 105.860% |          |
| 50) Toluene-d8                | 7.893     | 98    | 495567   | 50.503   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery | = 101.000% |          |
| 62) 4-Bromofluorobenzene      | 10.626    | 95    | 172707   | 45.392   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery | = 90.780%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.385     | 85    | 1645     | 0.594    | ug/l       | 83       |
| 4) Vinyl Chloride             | 1.604     | 62    | 1743     | 0.503    | ug/l       | 91       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.578     | 101   | 1088     | 0.422    | ug/l       | 92       |
| 10) Methyl Iodide             | 2.723     | 142   | 64       | 2.351    | ug/l #     | 43       |
| 12) 1,1-Dichloroethene        | 2.578     | 96    | 636      | 0.238    | ug/l       | 90       |
| 16) Acetone                   | 2.629     | 43    | 663      | 0.355    | ug/l #     | 88       |
| 20) Methylene Chloride        | 3.041     | 84    | 2335     | 0.694    | ug/l       | 85       |
| 21) trans-1,2-Dichloroethene  | 3.356     | 96    | 1534     | 0.537    | ug/l #     | 88       |
| 27) cis-1,2-Dichloroethene    | 4.665     | 96    | 21222    | 6.672    | ug/l       | 95       |
| 31) Cyclohexane               | 5.372     | 56    | 4626     | 1.007    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.366     | 75    | 18165    | 4.483    | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 5.369     | 117   | 24242    | 5.845    | ug/l #     | 16       |
| 39) Methylcyclohexane         | 6.536     | 83    | 2161     | 0.471    | ug/l #     | 1        |
| 44) Trichloroethene           | 6.536     | 130   | 175220   | 54.233   | ug/l       | 93       |
| 51) 4-Methyl-2-Pentanone      | 7.893     | 43    | 1848     | 0.407    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 10.626    | 75    | 87929    | 16.152   | ug/l #     | 45       |
| 81) trans-1,4-Dichloro-2-b... | 10.626    | 75    | 87929    | 61.505   | ug/l #     | 15       |
| 93) 1,2,4-Trichlorobenzene    | 13.867    | 180   | 68       | 1.659    | ug/l #     | 74       |
| 95) Naphthalene               | 14.114    | 128   | 68       | 1.996    | ug/l #     | 69       |
| 96) 1,2,3-Trichlorobenzene    | 14.343    | 180   | 63       | 1.269    | ug/l #     | 12       |
| -----                         |           |       |          |          |            |          |

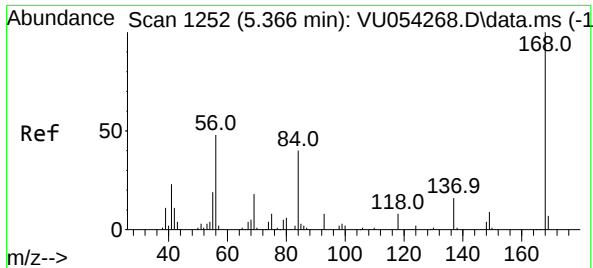
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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29BR-20230524

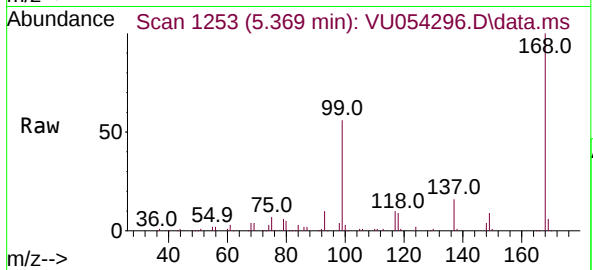
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052523W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 26 06:40:51 2023  
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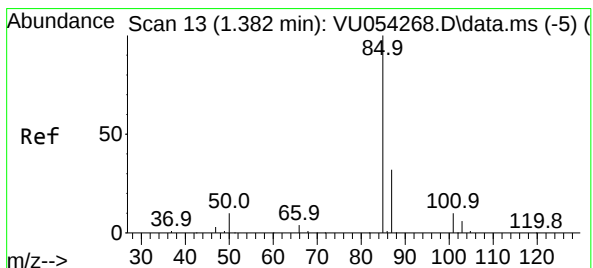
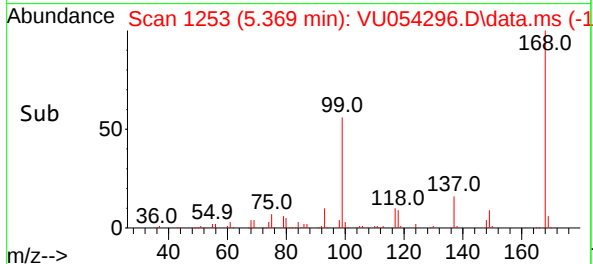
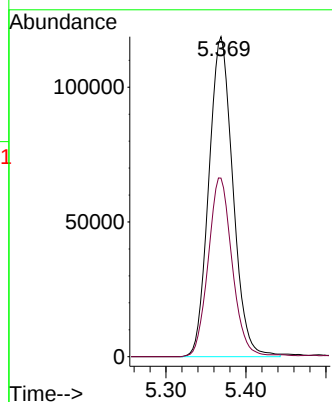


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.369 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Instrument :  
MSVOA\_U  
ClientSampleId :  
29BR-20230524

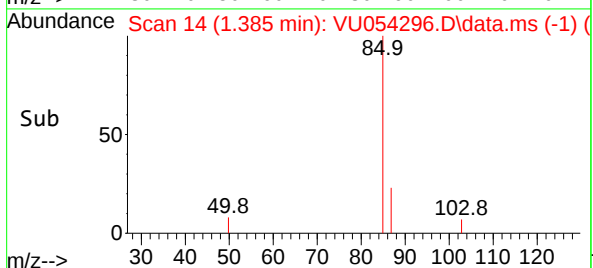
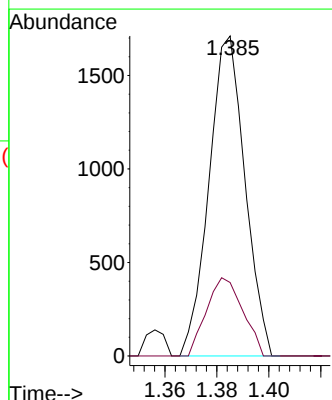
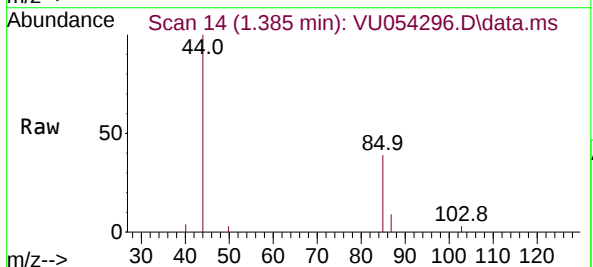


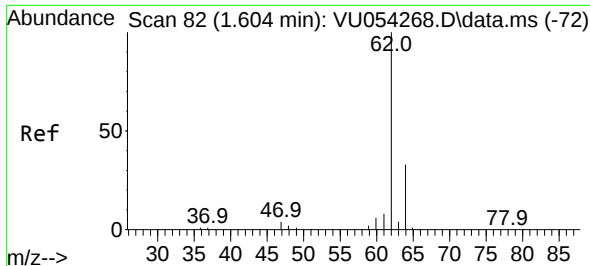
Tgt Ion:168 Resp: 248269  
Ion Ratio Lower Upper  
168 100  
99 55.8 39.3 58.9



#2  
Dichlorodifluoromethane  
Concen: 0.594 ug/l  
RT: 1.385 min Scan# 14  
Delta R.T. 0.003 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion: 85 Resp: 1645  
Ion Ratio Lower Upper  
85 100  
87 23.0 16.4 49.2

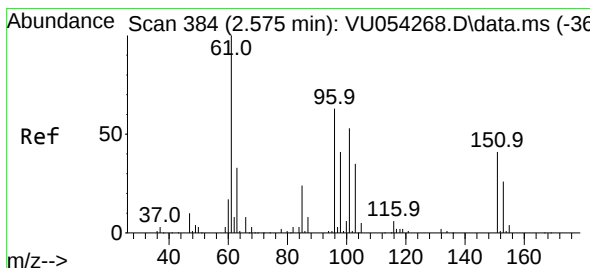
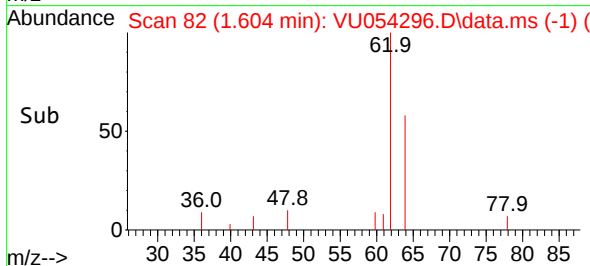
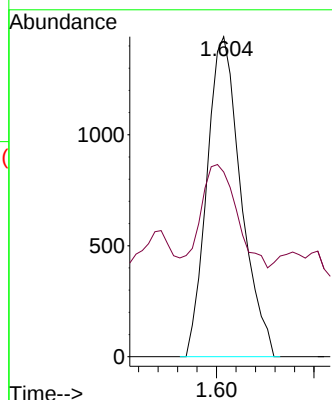
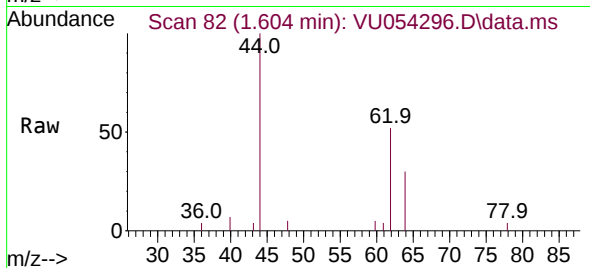




#4  
 Vinyl Chloride  
 Concen: 0.503 ug/l  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU054296.D  
 Acq: 26 May 2023 19:23

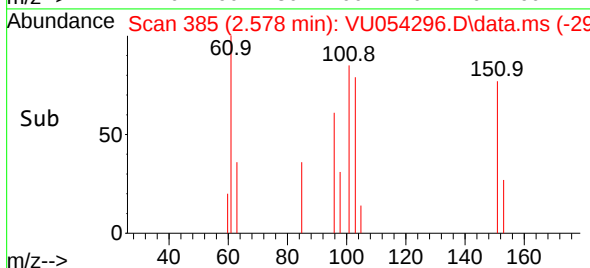
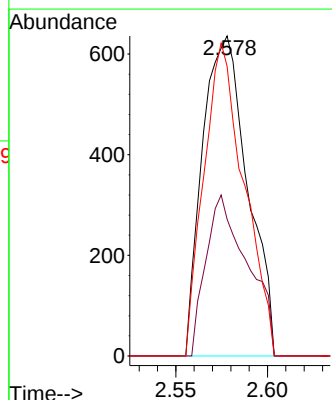
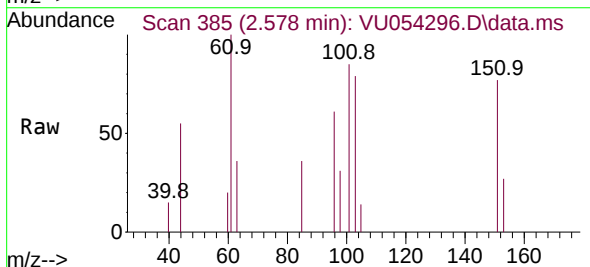
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 29BR-20230524

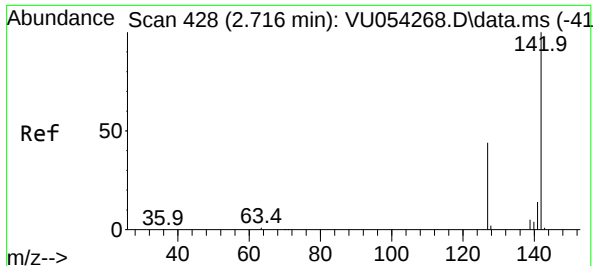
Tgt Ion: 62 Resp: 1743  
 Ion Ratio Lower Upper  
 62 100  
 64 26.8 25.3 37.9



#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.422 ug/l  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.003 min  
 Lab File: VU054296.D  
 Acq: 26 May 2023 19:23

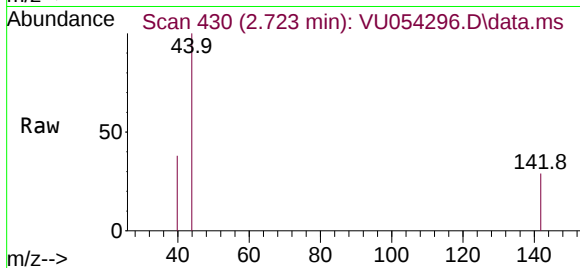
Tgt Ion: 101 Resp: 1088  
 Ion Ratio Lower Upper  
 101 100  
 85 46.6 33.9 50.9  
 151 87.1 64.0 96.0



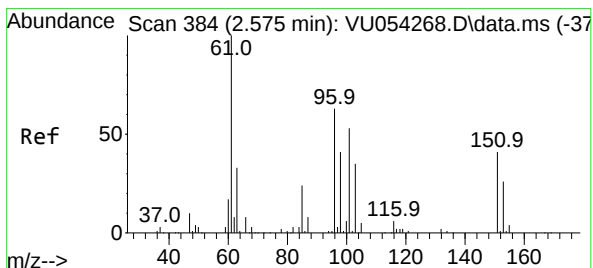
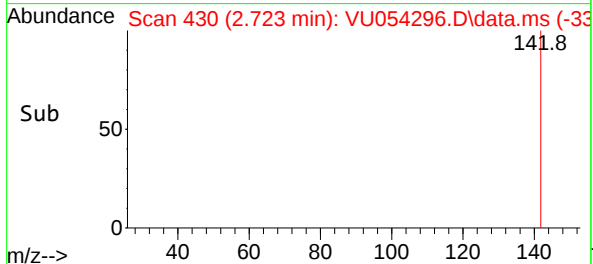
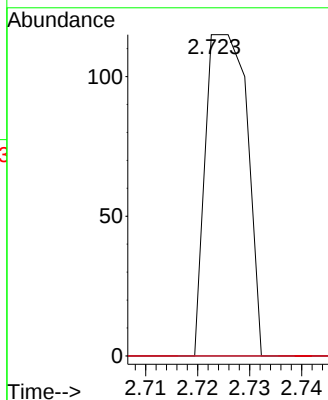


#10  
Methyl Iodide  
Concen: 2.351 ug/l  
RT: 2.723 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Instrument :  
MSVOA\_U  
ClientSampleId :  
29BR-20230524

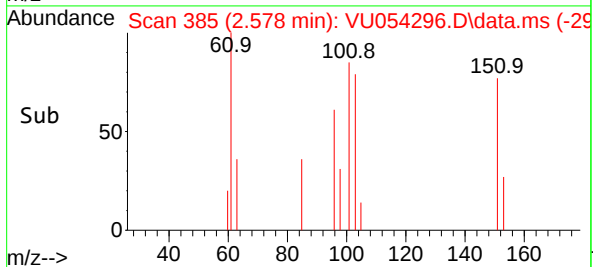
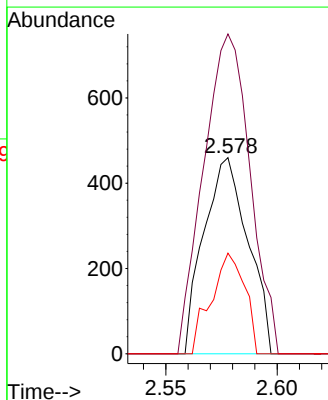
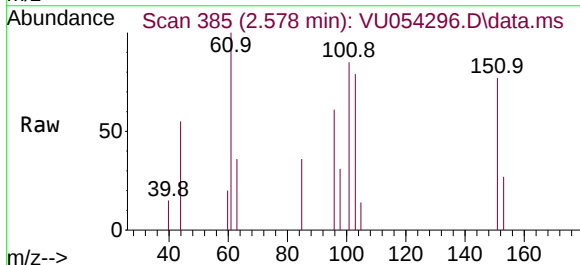


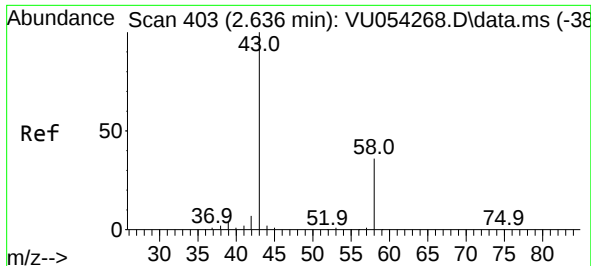
Tgt Ion:142 Resp: 64  
Ion Ratio Lower Upper  
142 100  
127 0.0 32.5 48.7#  
141 0.0 11.4 17.0#



#12  
1,1-Dichloroethene  
Concen: 0.238 ug/l  
RT: 2.578 min Scan# 385  
Delta R.T. 0.003 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion: 96 Resp: 636  
Ion Ratio Lower Upper  
96 100  
61 163.0 122.2 183.2  
98 51.3 50.7 76.1

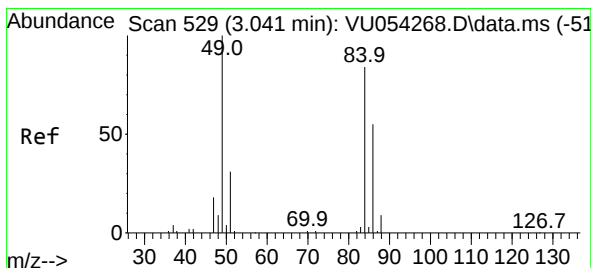
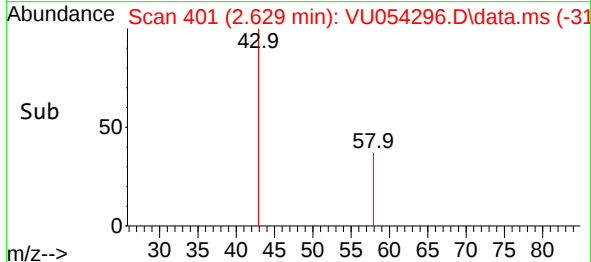
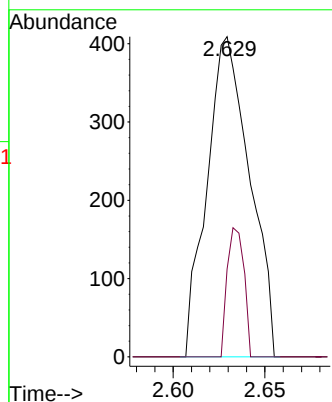
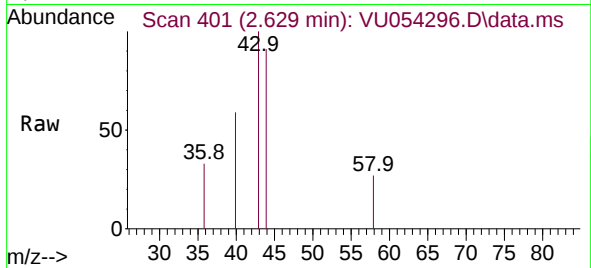




#16  
Acetone  
Concen: 0.355 ug/l  
RT: 2.629 min Scan# 403  
Delta R.T. -0.007 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

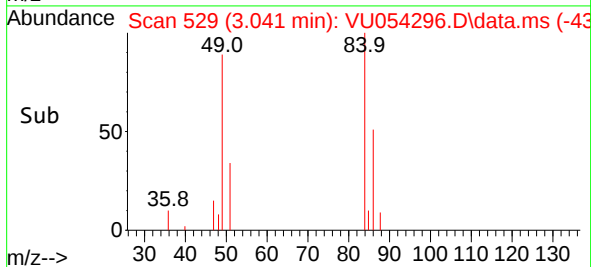
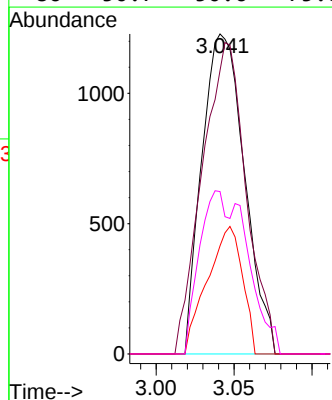
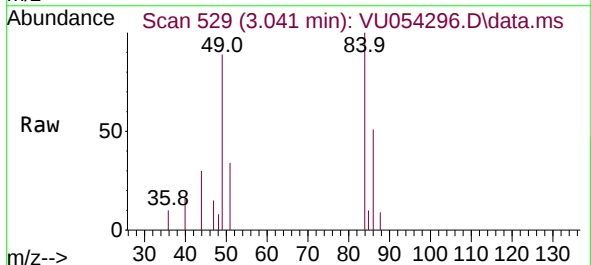
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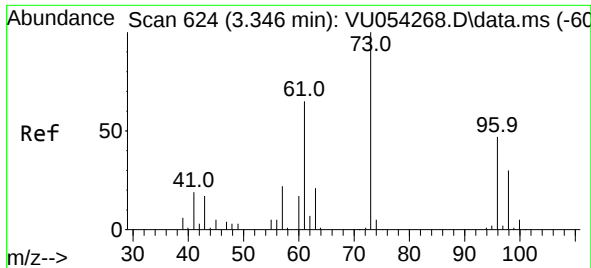
Tgt Ion: 43 Resp: 663  
Ion Ratio Lower Upper  
43 100  
58 27.4 27.5 41.3#



#20  
Methylene Chloride  
Concen: 0.694 ug/l  
RT: 3.041 min Scan# 529  
Delta R.T. -0.000 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion: 84 Resp: 2335  
Ion Ratio Lower Upper  
84 100  
49 88.6 86.6 129.8  
51 33.8 26.6 40.0  
86 50.7 50.6 75.8

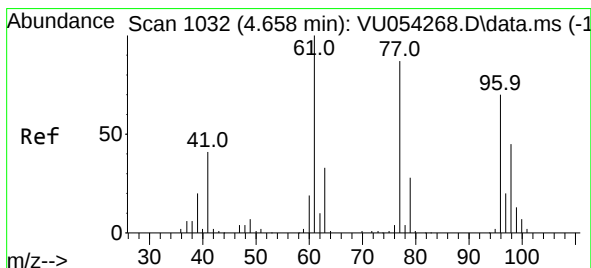
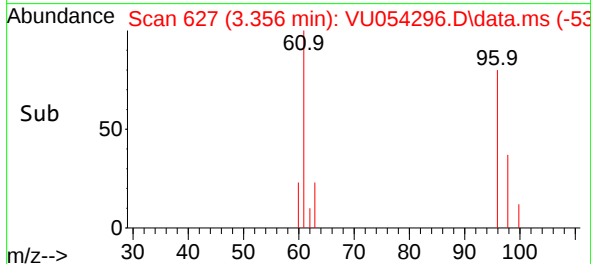
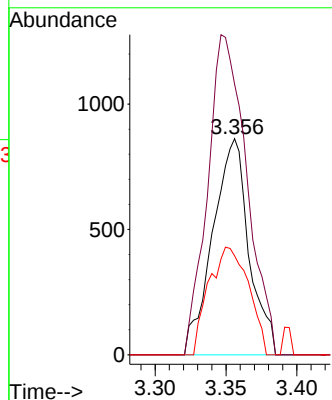
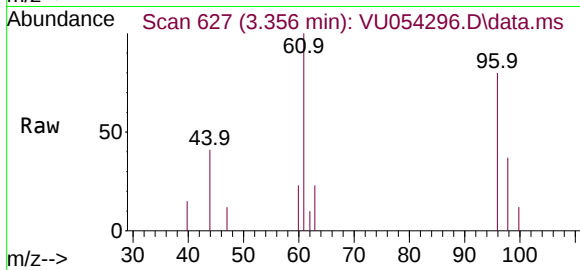




#21  
trans-1,2-Dichloroethene  
Concen: 0.537 ug/l  
RT: 3.356 min Scan# 61  
Delta R.T. 0.010 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

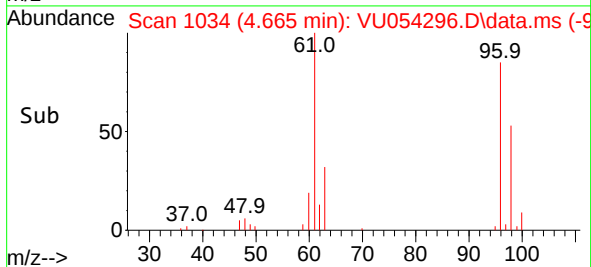
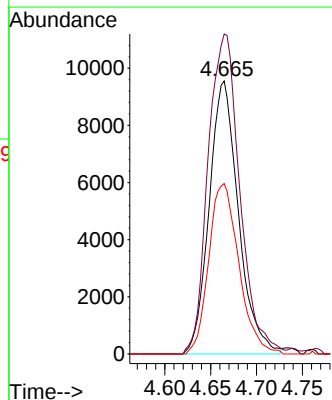
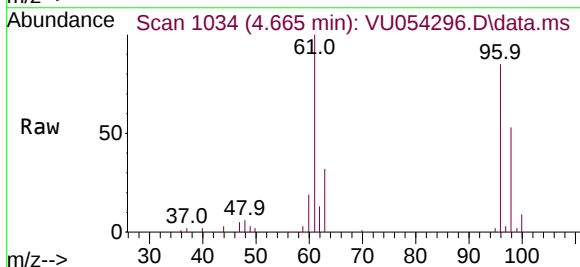
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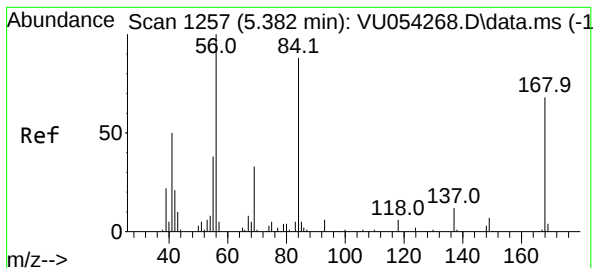
Tgt Ion: 96 Resp: 1534  
Ion Ratio Lower Upper  
96 100  
61 125.2 106.1 159.1  
98 45.8 50.8 76.2#



#27  
cis-1,2-Dichloroethene  
Concen: 6.672 ug/l  
RT: 4.665 min Scan# 1034  
Delta R.T. 0.007 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion: 96 Resp: 21222  
Ion Ratio Lower Upper  
96 100  
61 126.9 0.0 271.6  
98 64.2 0.0 128.2





#31

Cyclohexane

Concen: 1.007 ug/l

RT: 5.372 min Scan# 1

Delta R.T. -0.010 min

Lab File: VU054296.D

Acq: 26 May 2023 19:23

Instrument :

MSVOA\_U

ClientSampleId :

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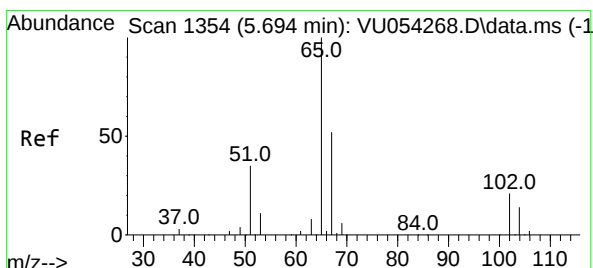
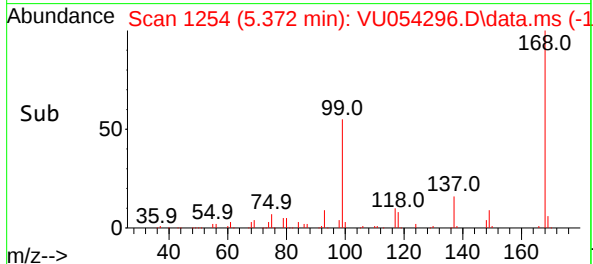
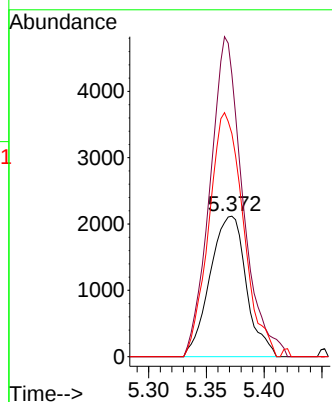
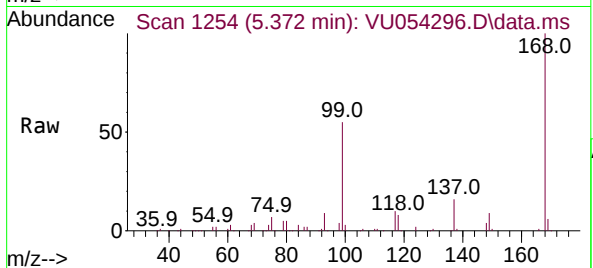
Tgt Ion: 56 Resp: 4626

Ion Ratio Lower Upper

56 100

69 201.0 27.8 41.8#

84 158.9 74.2 111.4#



#33

1,2-Dichloroethane-d4

Concen: 50.896 ug/l

RT: 5.697 min Scan# 1355

Delta R.T. 0.003 min

Lab File: VU054296.D

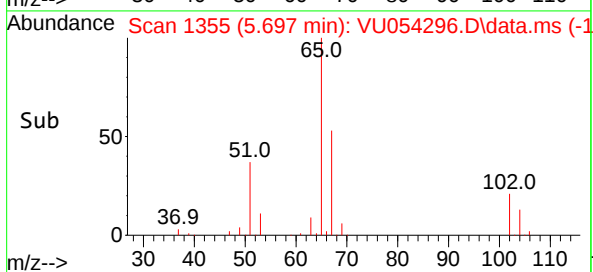
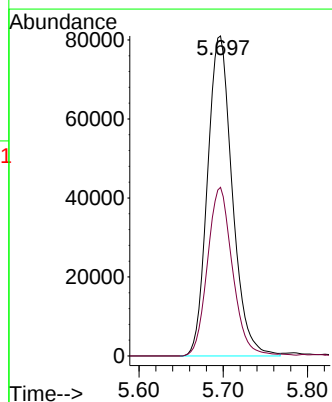
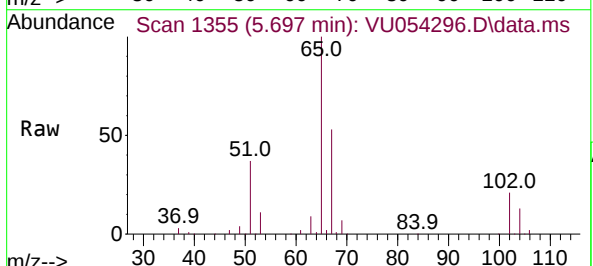
Acq: 26 May 2023 19:23

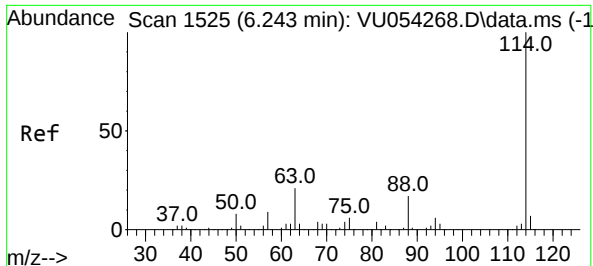
Tgt Ion: 65 Resp: 165643

Ion Ratio Lower Upper

65 100

67 53.3 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054296.D

Acq: 26 May 2023 19:23

Instrument :

MSVOA\_U

ClientSampleId :

29BR-20230524

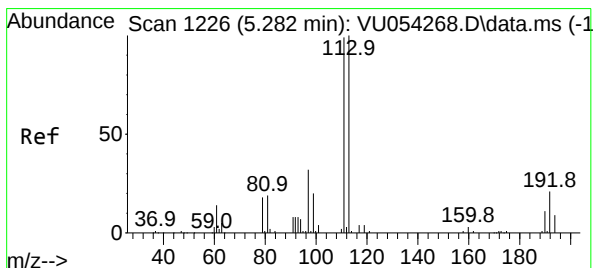
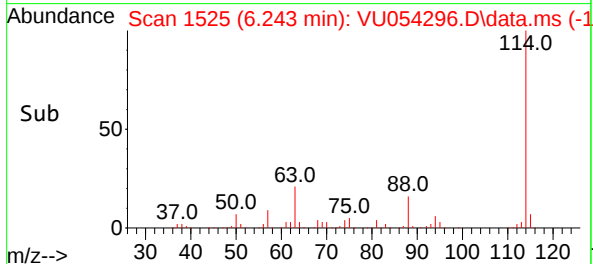
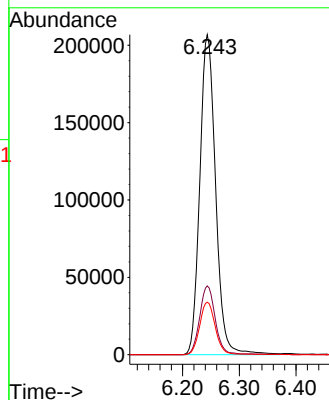
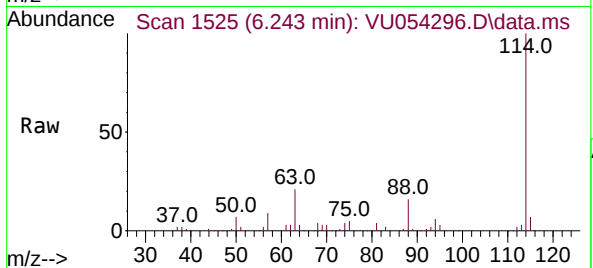
Tgt Ion:114 Resp: 400603

Ion Ratio Lower Upper

114 100

63 21.5 0.0 37.8

88 16.4 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.934 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054296.D

Acq: 26 May 2023 19:23

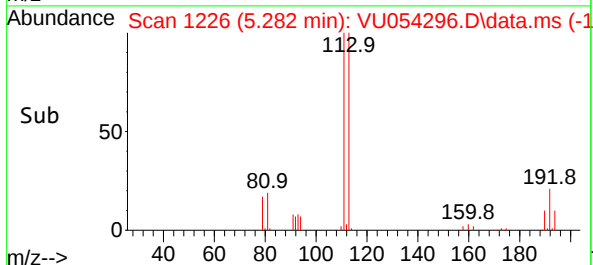
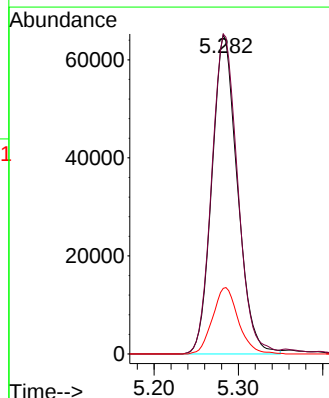
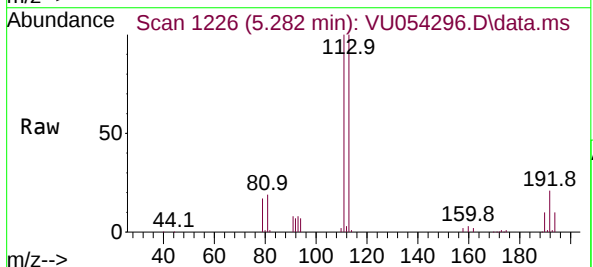
Tgt Ion:113 Resp: 136558

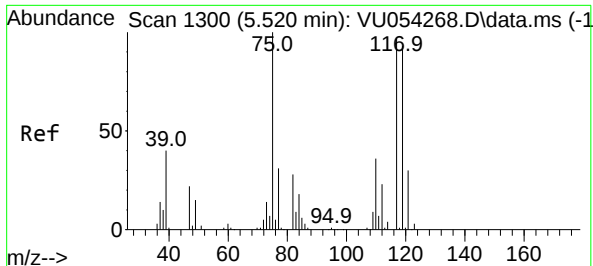
Ion Ratio Lower Upper

113 100

111 102.1 82.1 123.1

192 21.1 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.483 ug/l

RT: 5.366 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU054296.D

Acq: 26 May 2023 19:23

Instrument :

MSVOA\_U

ClientSampleId :

29BR-20230524

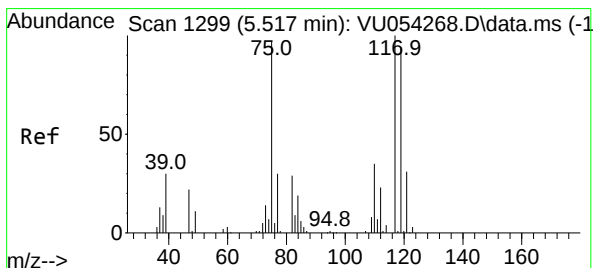
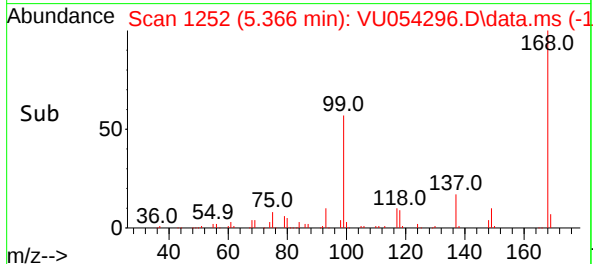
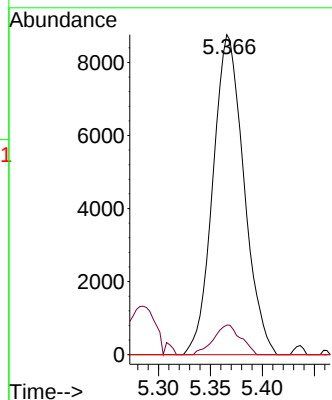
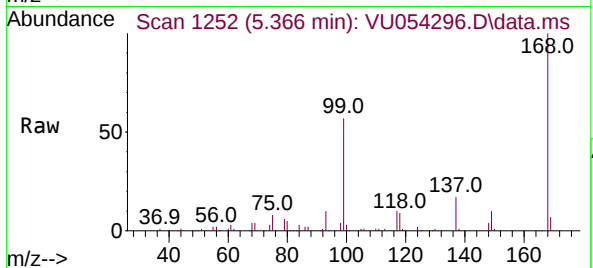
Tgt Ion: 75 Resp: 18165

Ion Ratio Lower Upper

75 100

110 8.2 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.845 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054296.D

Acq: 26 May 2023 19:23

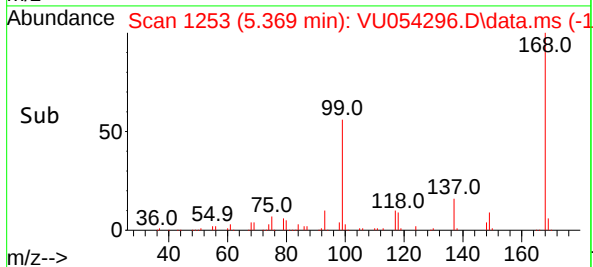
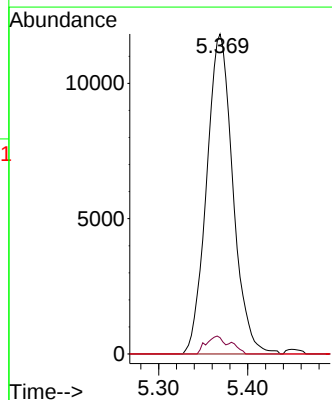
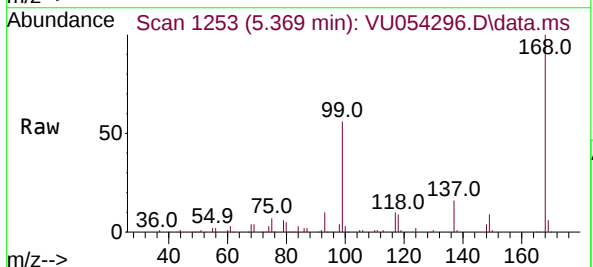
Tgt Ion: 117 Resp: 24242

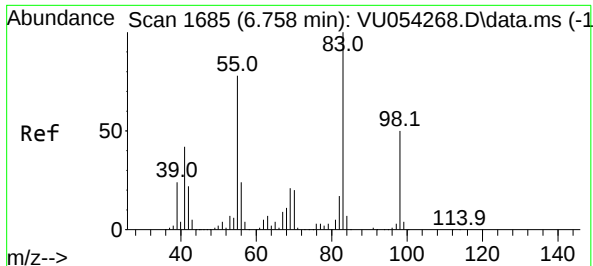
Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

121 0.0 24.7 37.1#





#39

Methylcyclohexane

Concen: 0.471 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. -0.222 min

Lab File: VU054296.D

Acq: 26 May 2023 19:23

Instrument :

MSVOA\_U

ClientSampleId :

29BR-20230524

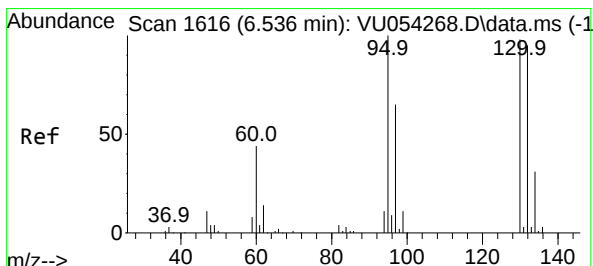
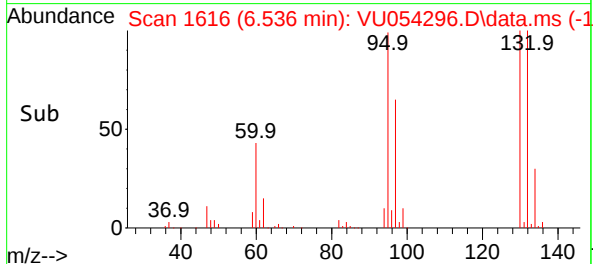
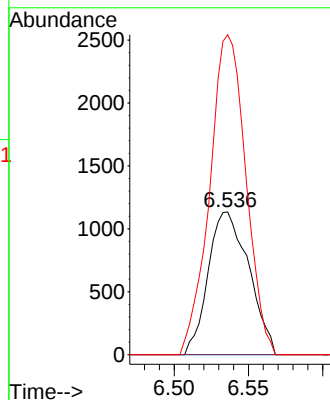
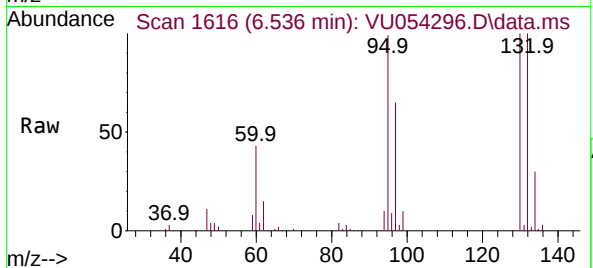
Tgt Ion: 83 Resp: 2161

Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 224.3 37.3 55.9#



#44

Trichloroethene

Concen: 54.233 ug/l

RT: 6.536 min Scan# 1616

Delta R.T. -0.000 min

Lab File: VU054296.D

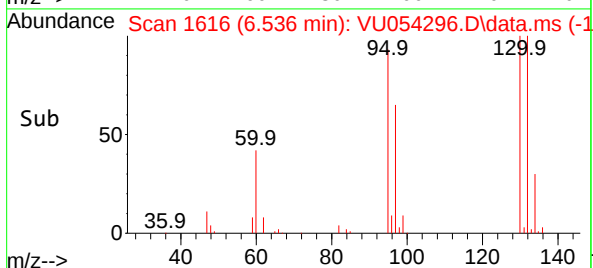
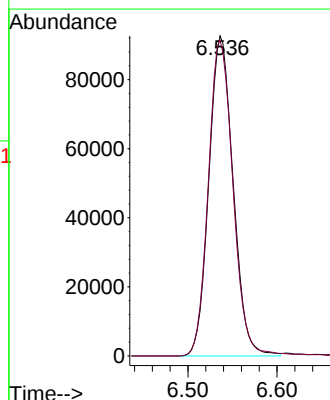
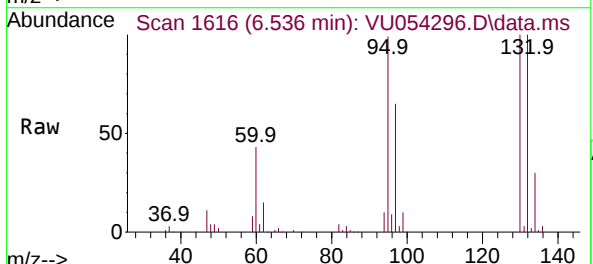
Acq: 26 May 2023 19:23

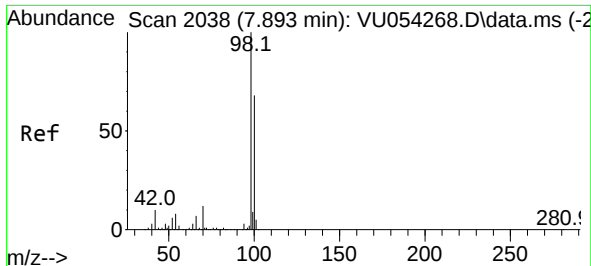
Tgt Ion:130 Resp: 175220

Ion Ratio Lower Upper

130 100

95 98.7 0.0 184.6

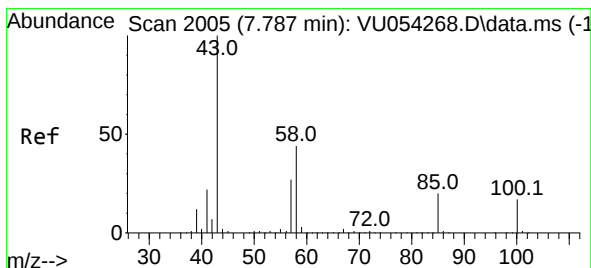
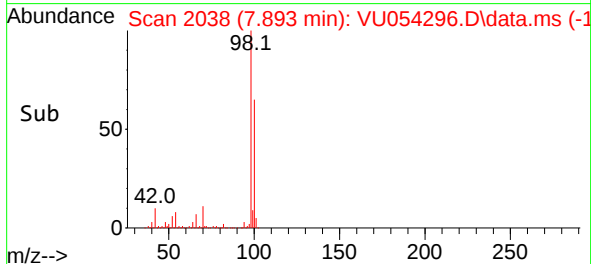
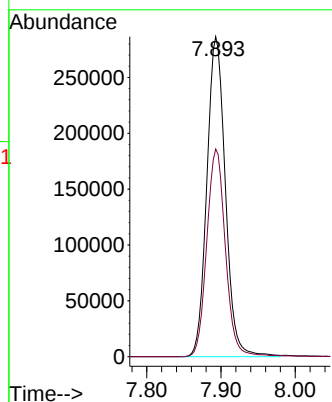
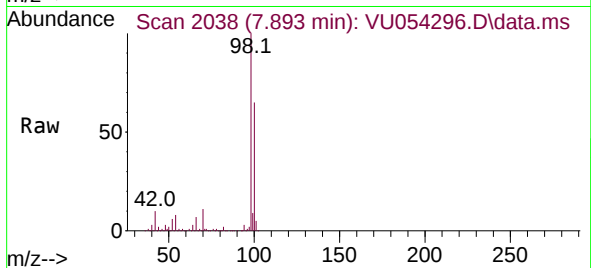




#50  
Toluene-d8  
Concen: 50.503 ug/l  
RT: 7.893 min Scan# 2038  
Delta R.T. -0.000 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

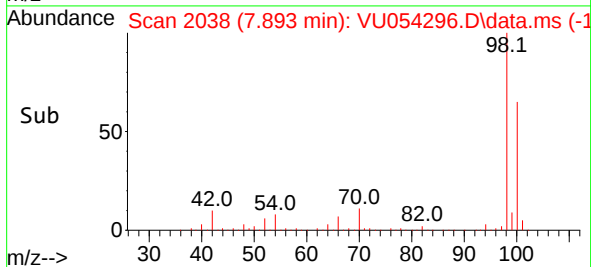
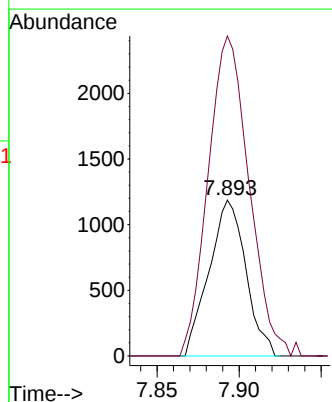
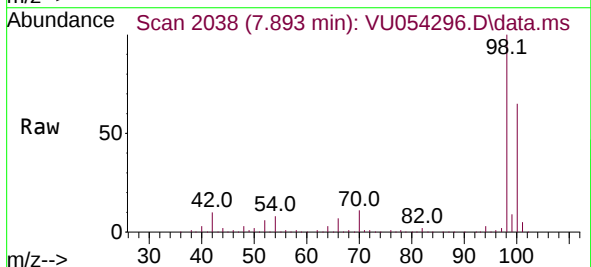
Instrument :  
MSVOA\_U  
ClientSampleId :  
29BR-20230524

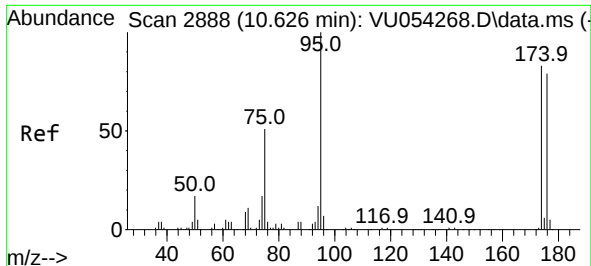
Tgt Ion: 98 Resp: 495567  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.407 ug/l  
RT: 7.893 min Scan# 2038  
Delta R.T. 0.106 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion: 43 Resp: 1848  
Ion Ratio Lower Upper  
43 100  
58 228.8 34.7 52.1#

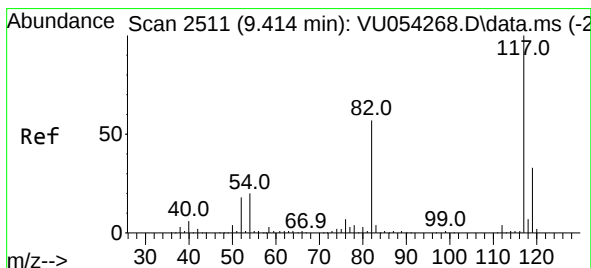
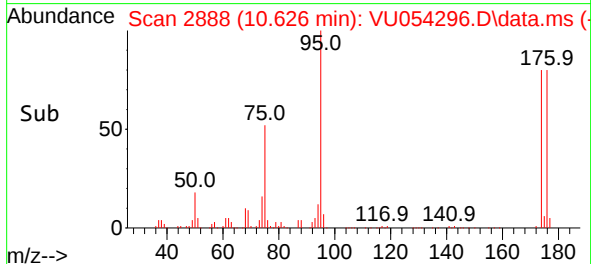
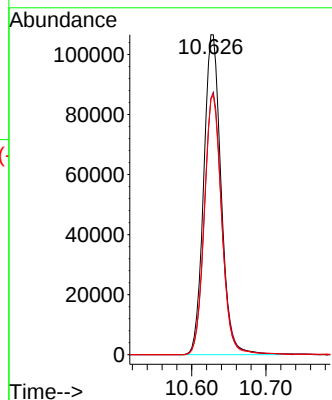
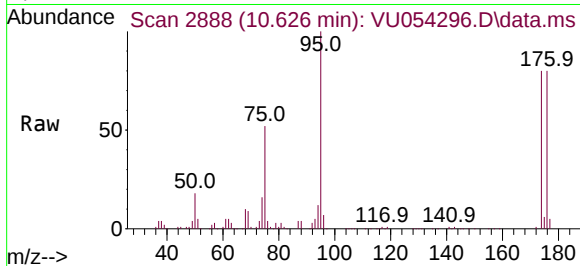




#62  
4-Bromofluorobenzene  
Concen: 45.392 ug/l  
RT: 10.626 min Scan# 2888  
Delta R.T. -0.000 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

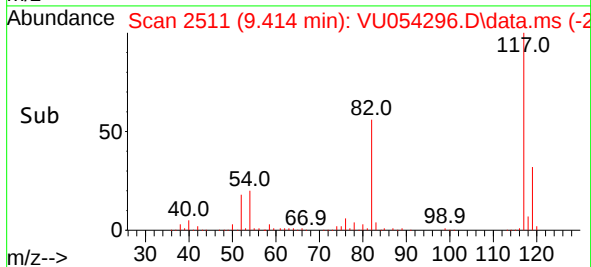
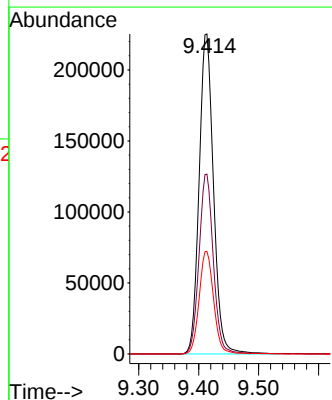
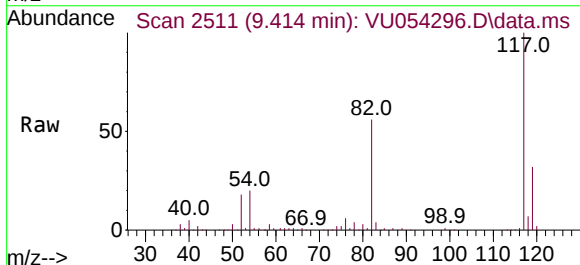
Instrument :  
MSVOA\_U  
ClientSampleId :  
29BR-20230524

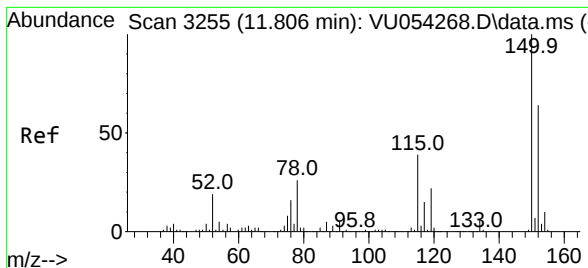
Tgt Ion: 95 Resp: 172707  
Ion Ratio Lower Upper  
95 100  
174 82.1 0.0 182.0  
176 81.3 0.0 177.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.414 min Scan# 2511  
Delta R.T. -0.000 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion: 117 Resp: 376671  
Ion Ratio Lower Upper  
117 100  
82 56.2 41.7 62.5  
119 32.1 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.806 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU054296.D

Acq: 26 May 2023 19:23

Instrument :

MSVOA\_U

ClientSampleId :

29BR-20230524

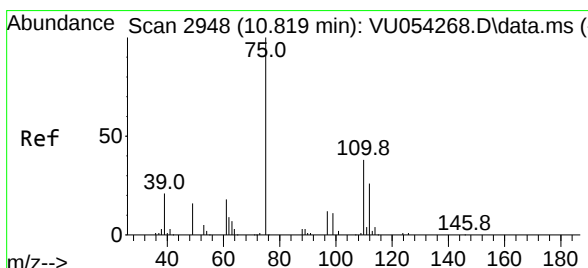
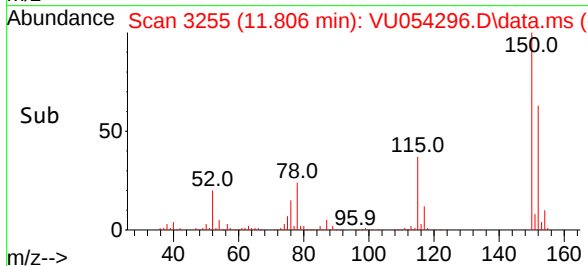
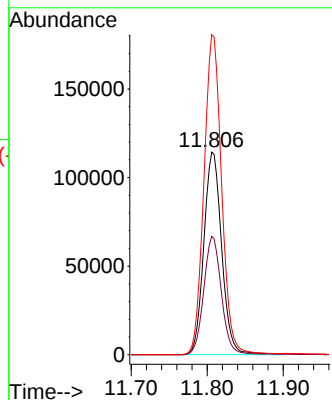
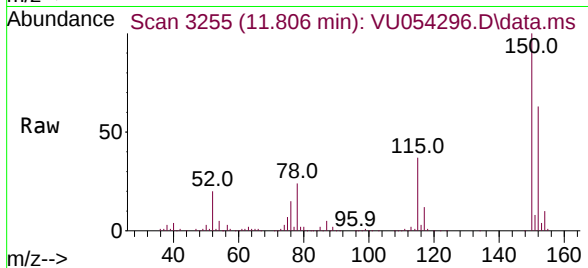
Tgt Ion:152 Resp: 186526

Ion Ratio Lower Upper

152 100

115 57.5 37.0 110.9

150 156.8 0.0 342.2



#76

1,2,3-Trichloropropane

Concen: 16.152 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054296.D

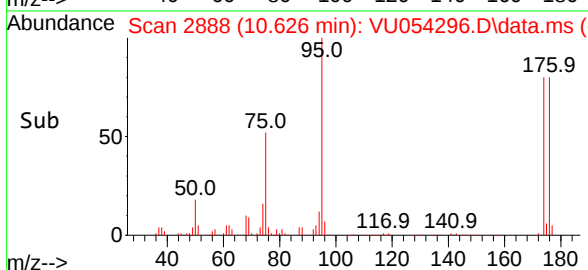
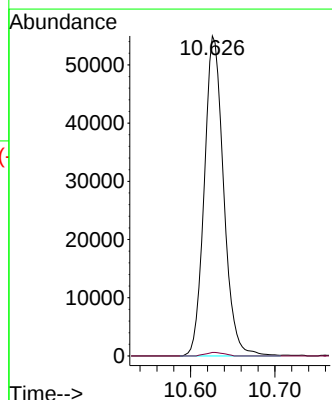
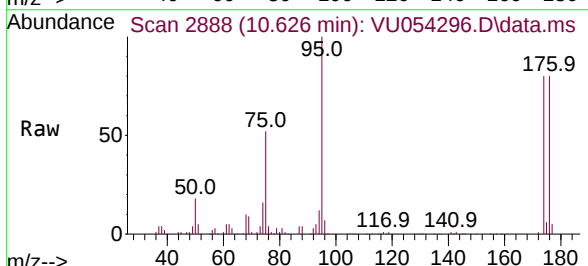
Acq: 26 May 2023 19:23

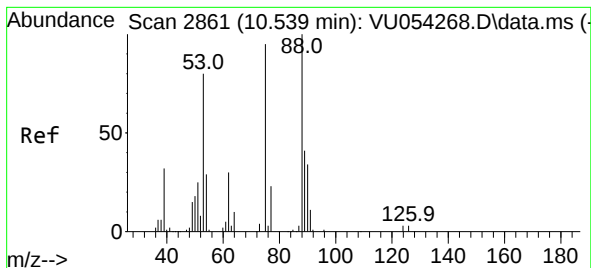
Tgt Ion: 75 Resp: 87929

Ion Ratio Lower Upper

75 100

77 1.1 15.8 47.3#

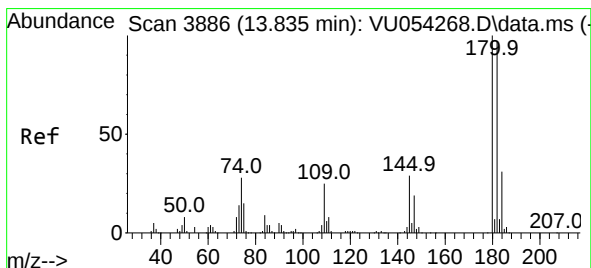
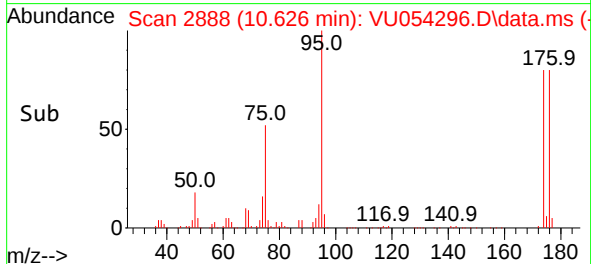
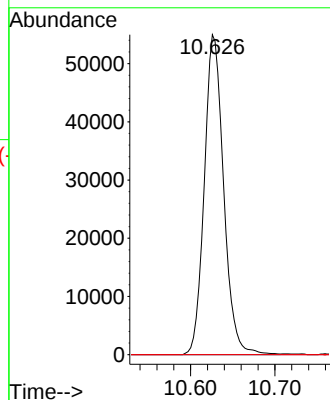
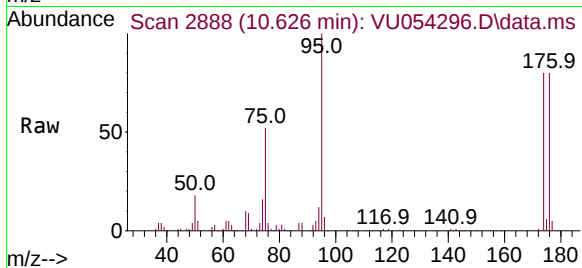




#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.505 ug/l  
RT: 10.626 min Scan# 21  
Delta R.T. 0.087 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

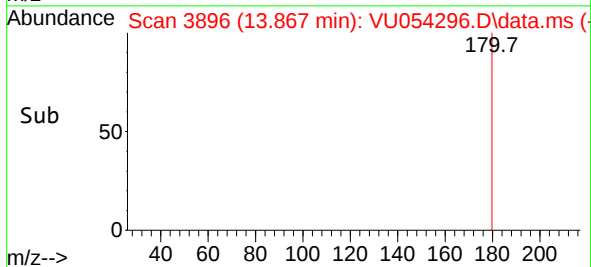
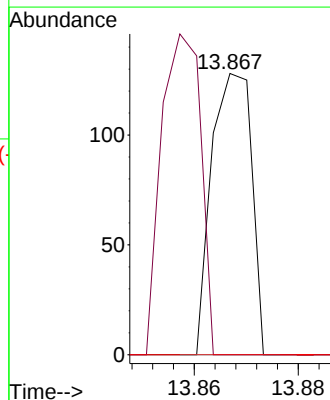
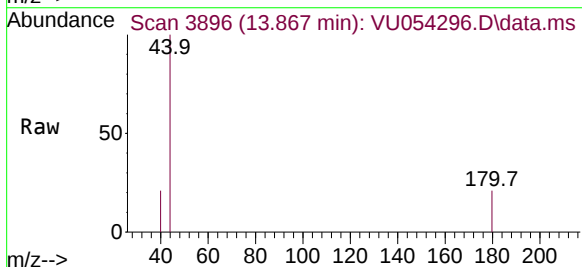
Instrument :  
MSVOA\_U  
ClientSampleId :  
29BR-20230524

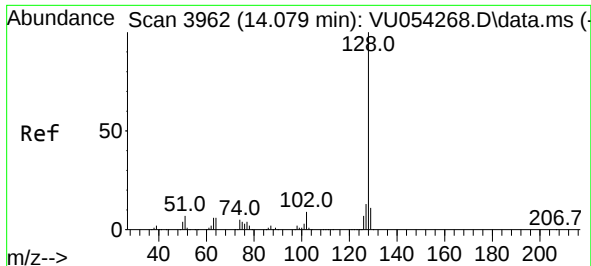
Tgt Ion: 75 Resp: 87929  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.2 103.8#  
89 0.0 37.0 55.6#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.659 ug/l  
RT: 13.867 min Scan# 3896  
Delta R.T. 0.032 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion:180 Resp: 68  
Ion Ratio Lower Upper  
180 100  
182 113.2 47.9 143.6  
145 0.0 14.0 41.9#

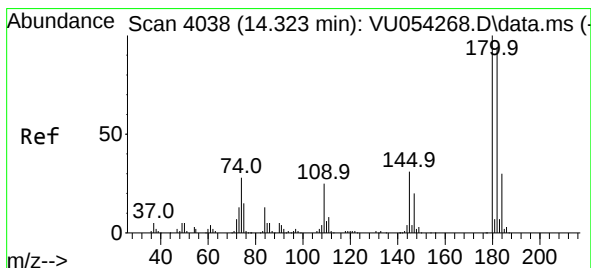
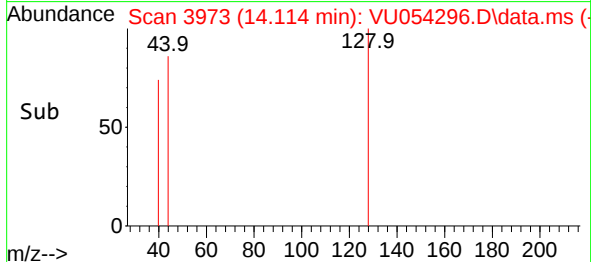
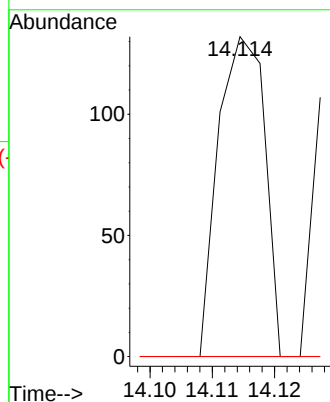
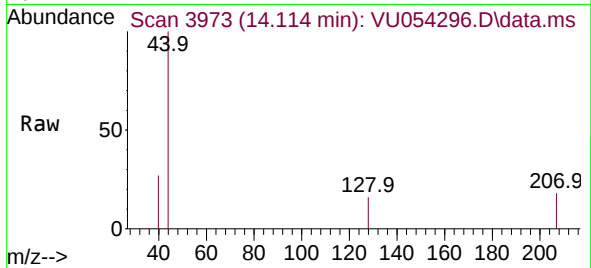




#95  
Naphthalene  
Concen: 1.996 ug/l  
RT: 14.114 min Scan# 3962  
Delta R.T. 0.035 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Instrument :  
MSVOA\_U  
ClientSampleId :  
29BR-20230524

Tgt Ion:128 Resp: 68  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 1.269 ug/l  
RT: 14.343 min Scan# 4044  
Delta R.T. 0.020 min  
Lab File: VU054296.D  
Acq: 26 May 2023 19:23

Tgt Ion:180 Resp: 63  
Ion Ratio Lower Upper  
180 100  
182 0.0 48.4 145.0#  
145 0.0 14.8 44.4#

