

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051425\  
 Data File : VD080323.D  
 Acq On : 14 May 2025 15:35  
 Operator : RP/MD  
 Sample : Q2024-01  
 Misc : 5.06G/10ml/MSVOA\_D/SOIL/A  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PL-02-051325

Quant Time: May 15 03:36:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050625S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 07 08:57:11 2025  
 Response via : Initial Calibration

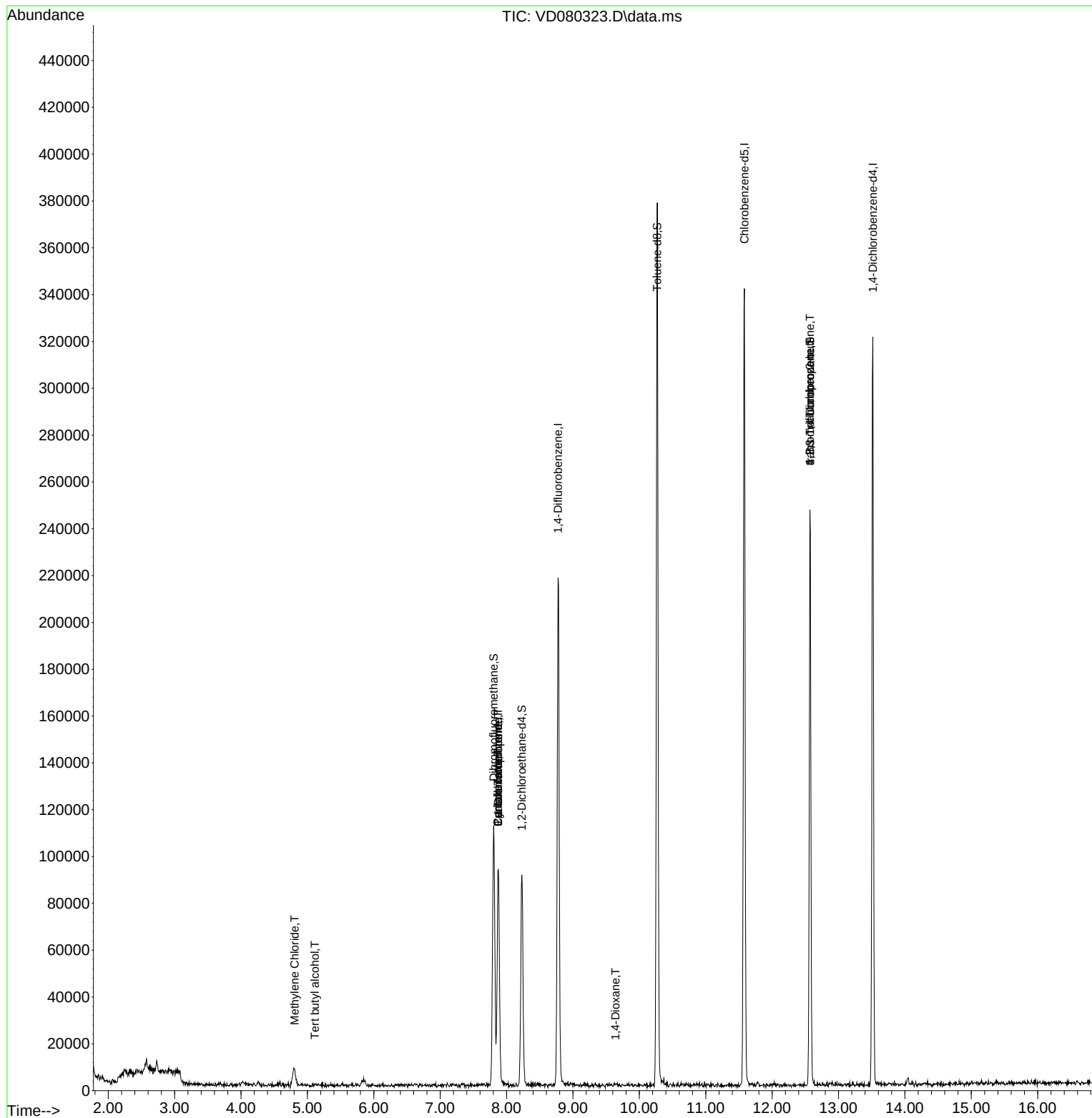
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.870  | 168   | 71358    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.776  | 114   | 186552   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.582 | 117   | 192977   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.517 | 152   | 85243    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.229  | 65    | 72552    | 78.623    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 157.240% |          |
| 35) Dibromofluoromethane      | 7.805  | 113   | 79256    | 63.388    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 126.780% |          |
| 50) Toluene-d8                | 10.270 | 98    | 256341   | 52.033    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 104.060% |          |
| 62) 4-Bromofluorobenzene      | 12.570 | 95    | 74596    | 47.175    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 94.360%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 2.112  | 85    | 54       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.153  | 50    | 389      | Below Cal | #          | 39       |
| 11) Tert butyl alcohol        | 5.111  | 59    | 125      | 2.232     | ug/l #     | 82       |
| 16) Acetone                   | 4.035  | 43    | 2640     | Below Cal | #          | 82       |
| 20) Methylene Chloride        | 4.806  | 84    | 5605     | 2.015     | ug/l #     | 90       |
| 31) Cyclohexane               | 7.870  | 56    | 1845     | 1.231     | ug/l #     | 63       |
| 36) 1,1-Dichloropropene       | 7.876  | 75    | 6431     | 3.441     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.870  | 117   | 6962     | 3.572     | ug/l #     | 21       |
| 49) 1,4-Dioxane               | 9.641  | 88    | 62       | 6.378     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.570 | 75    | 38080    | 46.286    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.570 | 75    | 38080    | 87.859    | ug/l #     | 15       |
| -----                         |        |       |          |           |            |          |

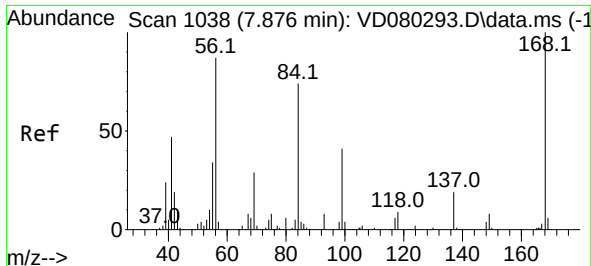
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 07 08:57:11 2025  
Response via : Initial Calibration

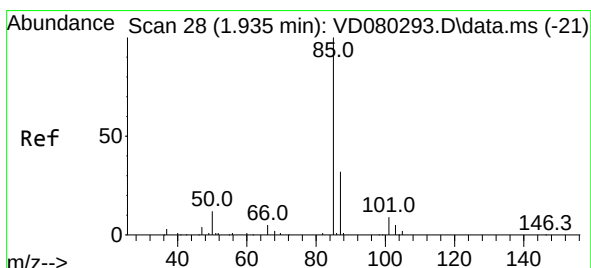
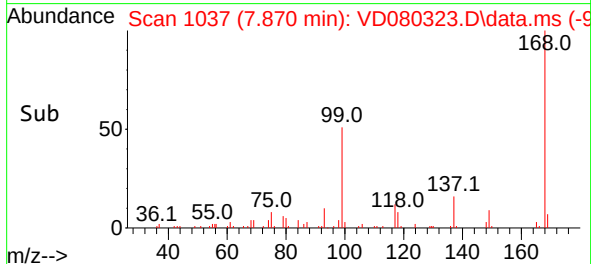
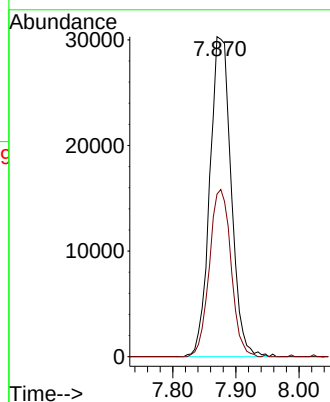
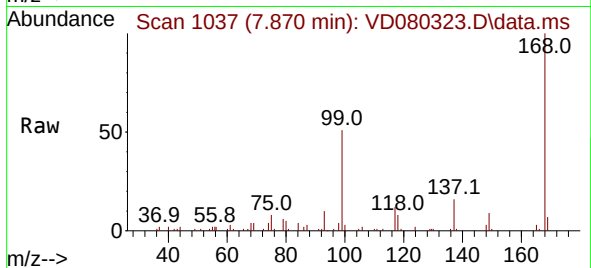




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.870 min Scan# 1037  
Delta R.T. -0.005 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

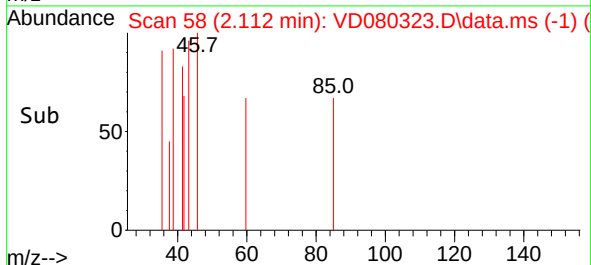
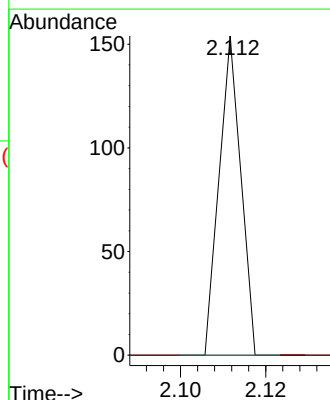
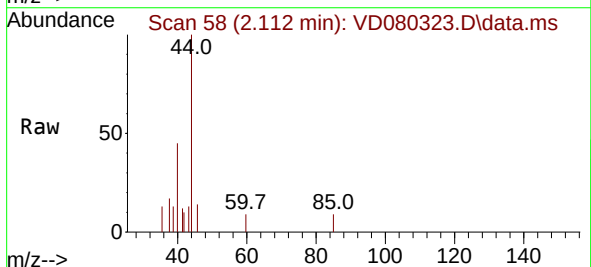
Instrument :  
MSVOA\_D  
ClientSampleId :  
PL-02-051325

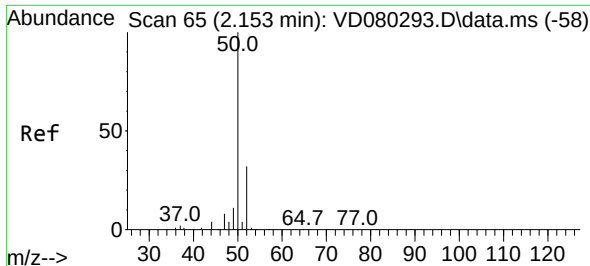
Tgt Ion:168 Resp: 71358  
Ion Ratio Lower Upper  
168 100  
99 50.8 46.0 69.0



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 2.112 min Scan# 58  
Delta R.T. 0.178 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

Tgt Ion: 85 Resp: 54  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#

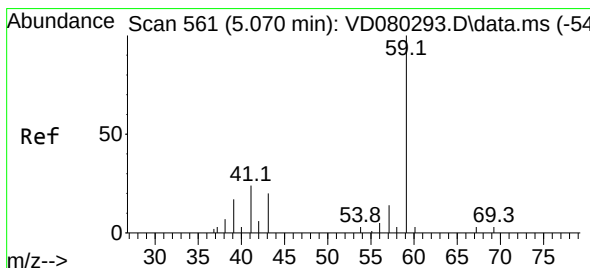
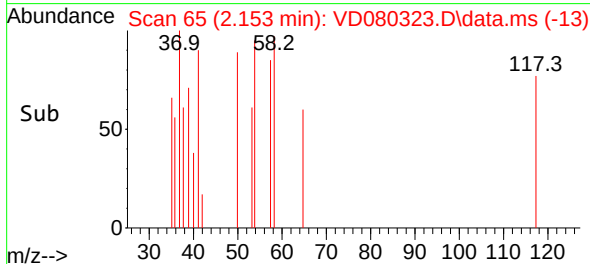
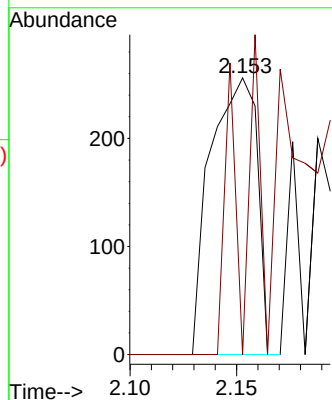
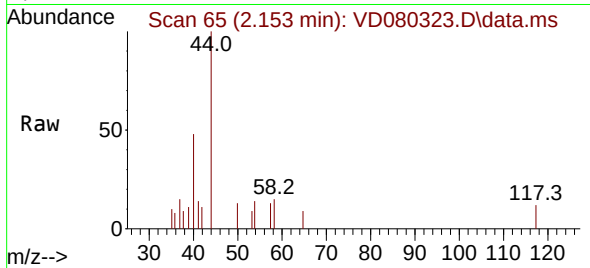




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.153 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

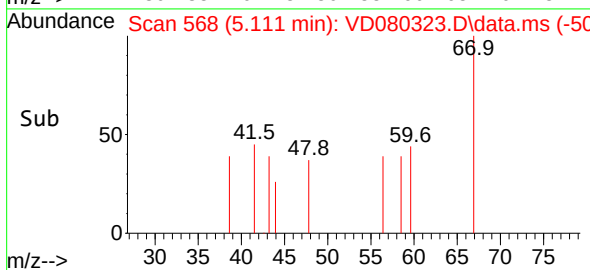
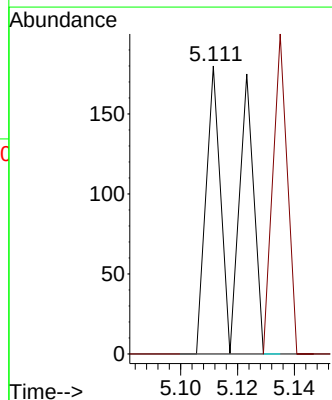
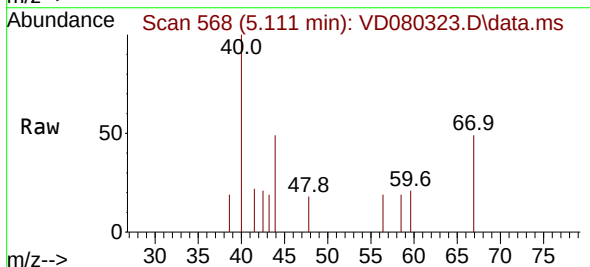
Instrument :  
MSVOA\_D  
ClientSampleId :  
PL-02-051325

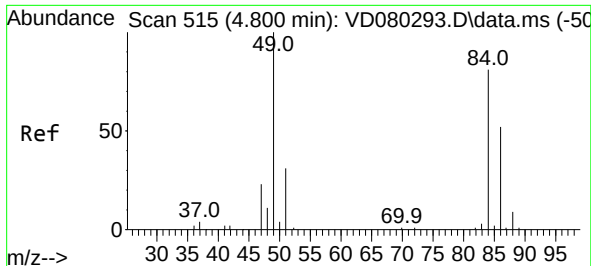
Tgt Ion: 50 Resp: 389  
Ion Ratio Lower Upper  
50 100  
52 0.0 28.8 43.2#



#11  
Tert butyl alcohol  
Concen: 2.232 ug/l  
RT: 5.111 min Scan# 568  
Delta R.T. 0.053 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

Tgt Ion: 59 Resp: 125  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.8 7.2#

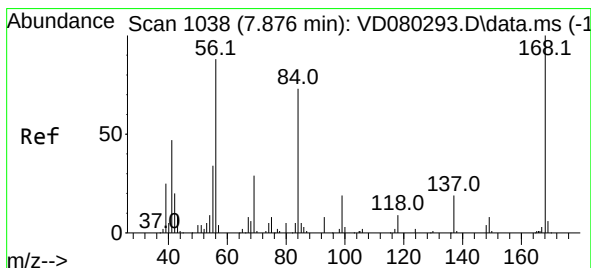
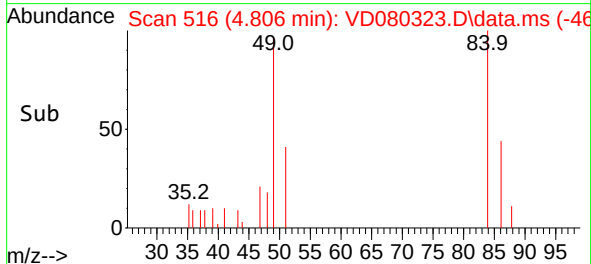
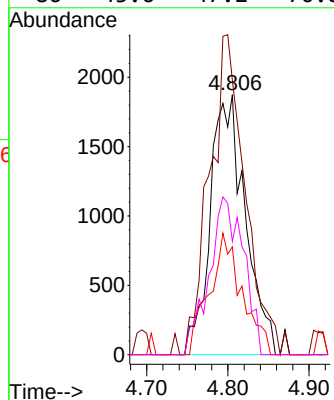
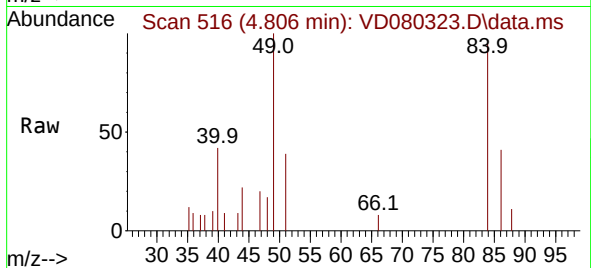




#20  
Methylene Chloride  
Concen: 2.015 ug/l  
RT: 4.806 min Scan# 515  
Delta R.T. 0.001 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

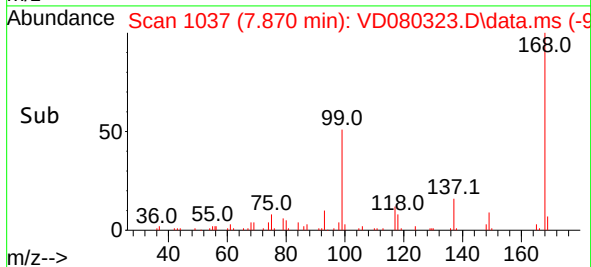
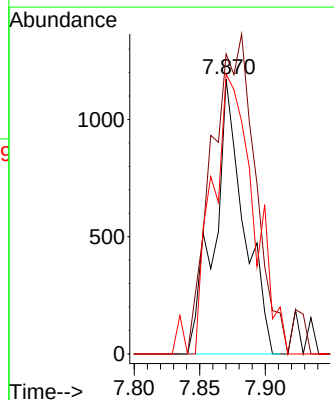
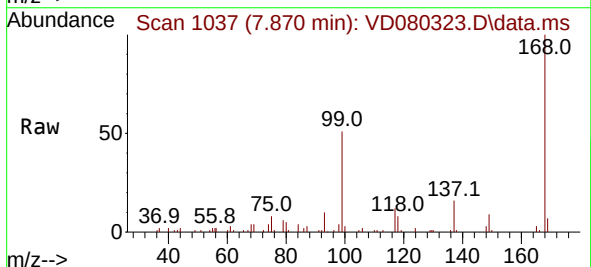
Instrument :  
MSVOA\_D  
ClientSampleId :  
PL-02-051325

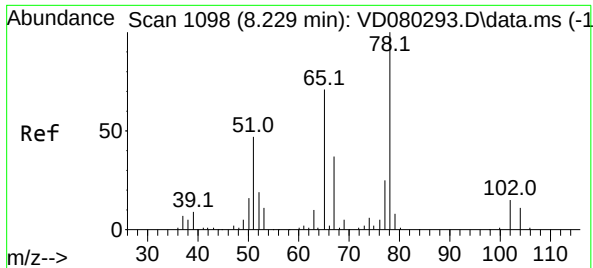
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5605  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 105.5 | 86.5  | 129.7 |
| 51       | 41.5  | 26.9  | 40.3# |
| 86       | 43.6  | 47.2  | 70.8# |



#31  
Cyclohexane  
Concen: 1.231 ug/l  
RT: 7.870 min Scan# 1037  
Delta R.T. -0.011 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 1845  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 109.2 | 27.3  | 40.9# |
| 84       | 87.8  | 70.2  | 105.4 |





#33

1,2-Dichloroethane-d4

Concen: 78.623 ug/l

RT: 8.229 min Scan# 1109

Delta R.T. 0.001 min

Lab File: VD080323.D

Acq: 14 May 2025 15:35

Instrument :

MSVOA\_D

ClientSampleId :

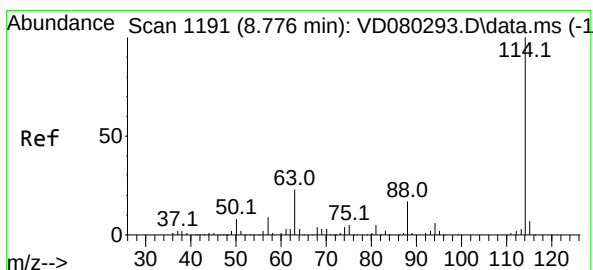
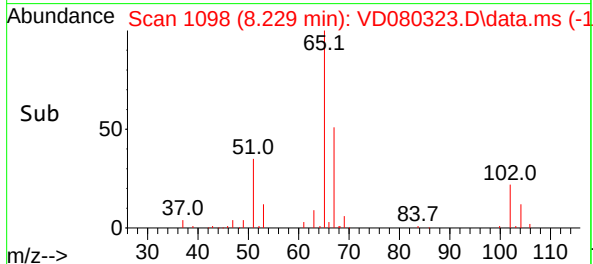
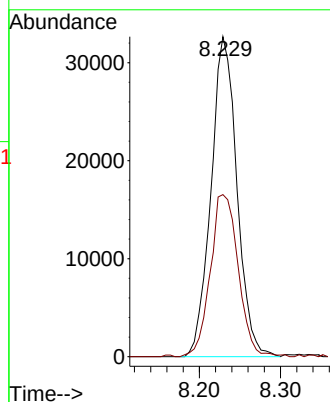
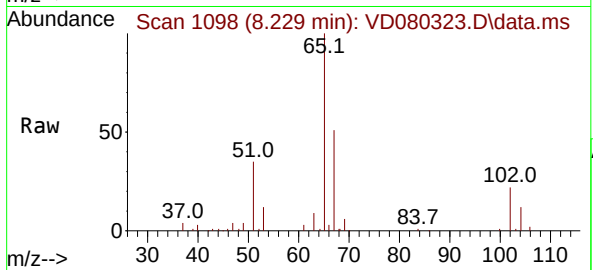
PL-02-051325

Tgt Ion: 65 Resp: 72552

Ion Ratio Lower Upper

65 100

67 54.4 0.0 109.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.776 min Scan# 1191

Delta R.T. 0.001 min

Lab File: VD080323.D

Acq: 14 May 2025 15:35

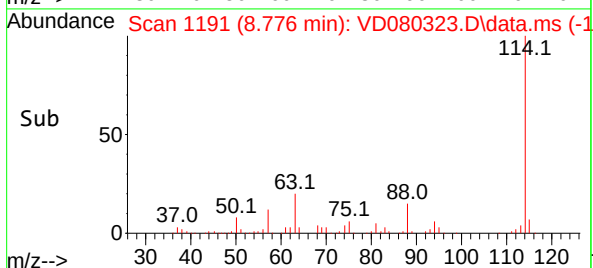
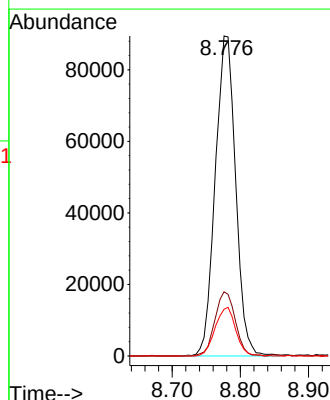
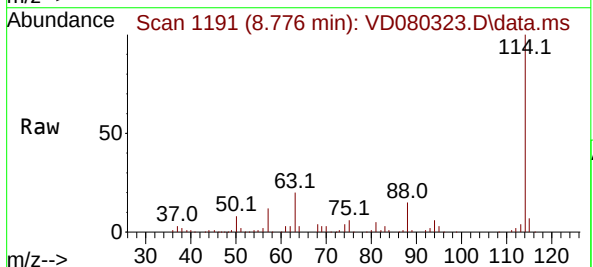
Tgt Ion: 114 Resp: 186552

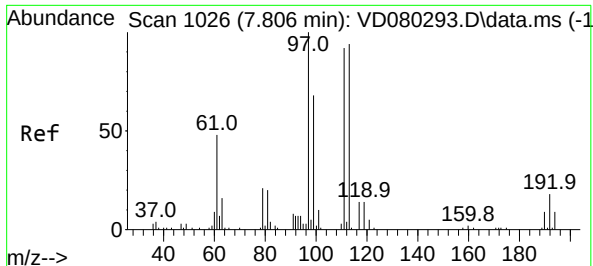
Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.8

88 14.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 63.388 ug/l

RT: 7.805 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VD080323.D

Acq: 14 May 2025 15:35

Instrument :

MSVOA\_D

ClientSampleId :

PL-02-051325

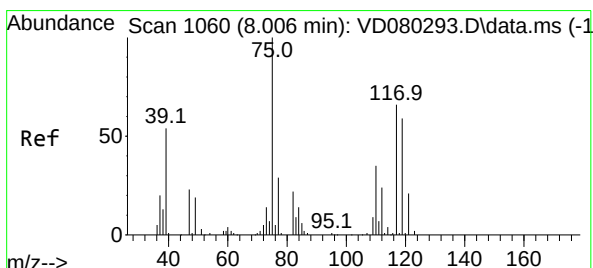
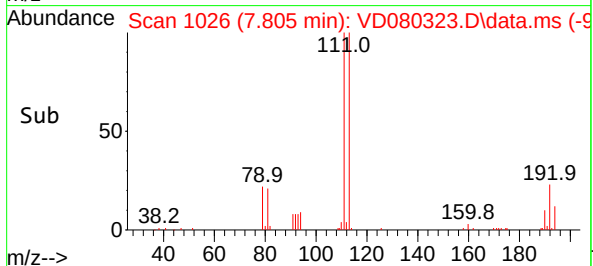
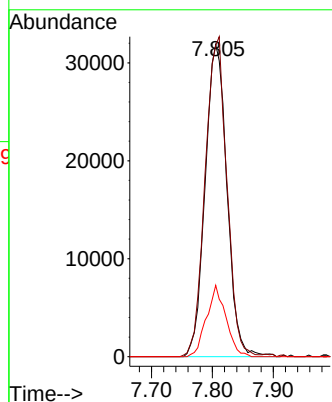
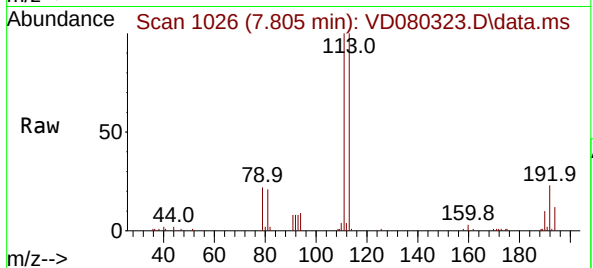
Tgt Ion:113 Resp: 79256

Ion Ratio Lower Upper

113 100

111 102.1 82.5 123.7

192 20.4 16.6 25.0



#36

1,1-Dichloropropene

Concen: 3.441 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.129 min

Lab File: VD080323.D

Acq: 14 May 2025 15:35

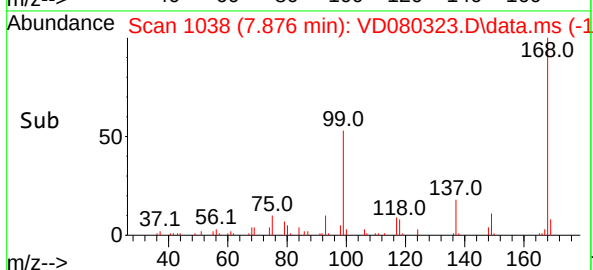
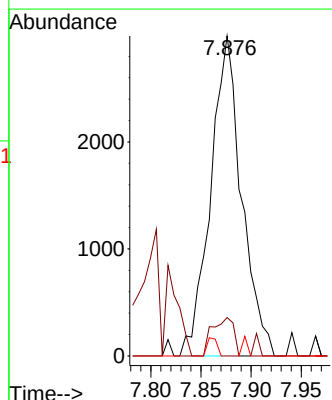
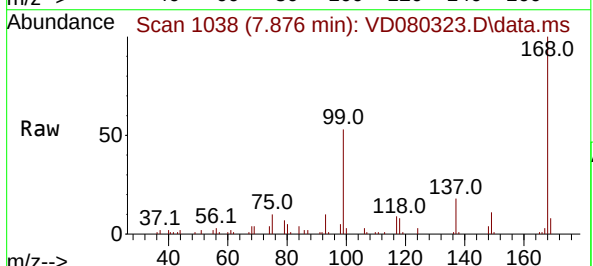
Tgt Ion: 75 Resp: 6431

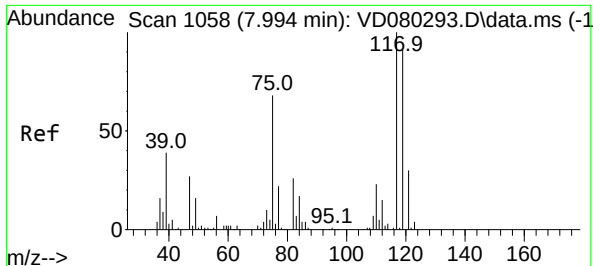
Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.0#

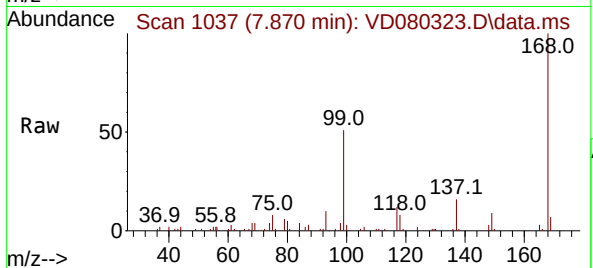
77 1.8 25.6 38.4#



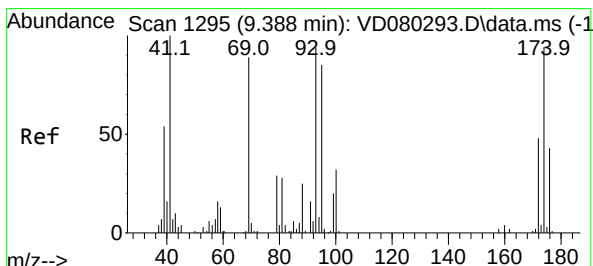
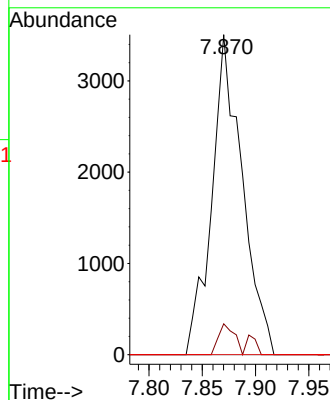
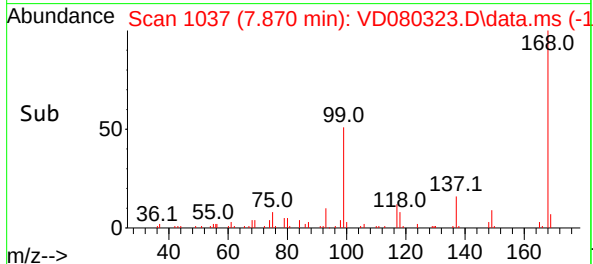


#38  
Carbon Tetrachloride  
Concen: 3.572 ug/l  
RT: 7.870 min Scan# 1058  
Delta R.T. -0.117 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

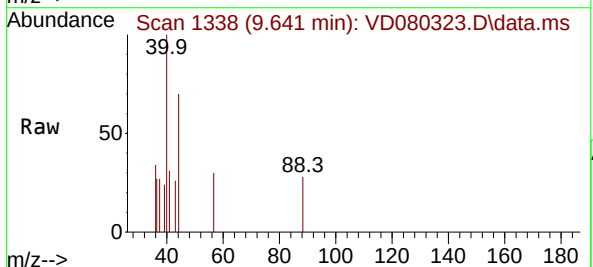
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MSVOA\_D  
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PL-02-051325



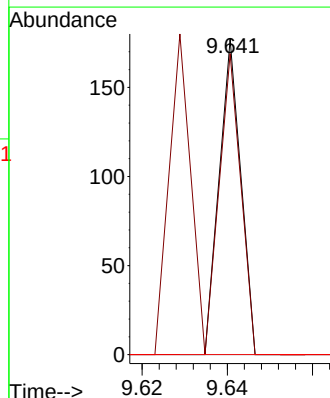
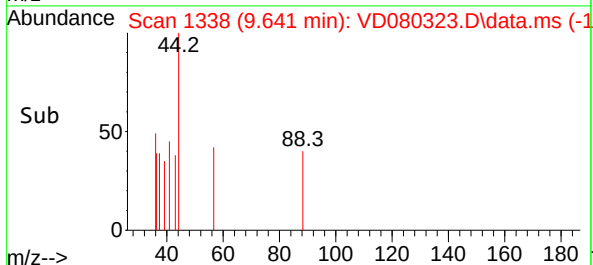
Tgt Ion:117 Resp: 6962  
Ion Ratio Lower Upper  
117 100  
119 9.7 73.4 110.0#  
121 0.0 24.5 36.7#



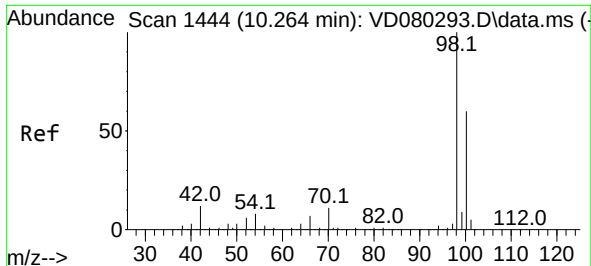
#49  
1,4-Dioxane  
Concen: 6.378 ug/l  
RT: 9.641 min Scan# 1338  
Delta R.T. 0.254 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35



Tgt Ion: 88 Resp: 62  
Ion Ratio Lower Upper  
88 100  
43 198.4 29.1 43.7#  
58 0.0 59.9 89.9#



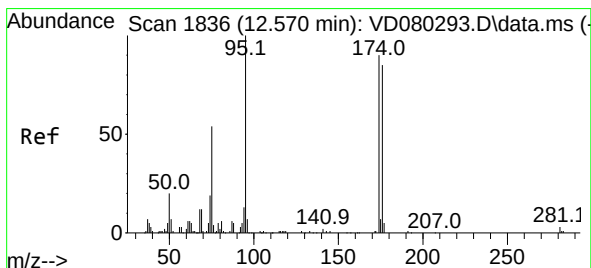
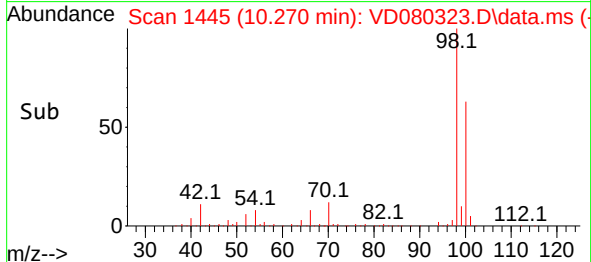
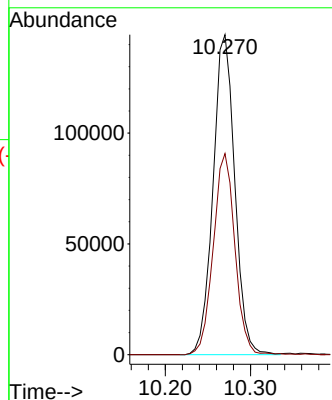
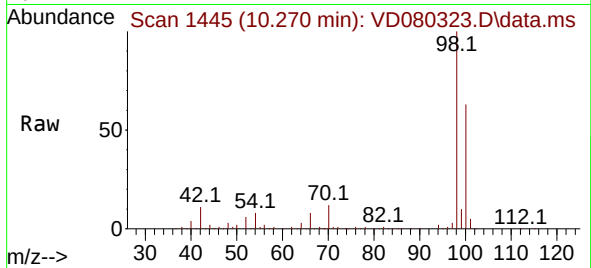




#50  
Toluene-d8  
Concen: 52.033 ug/l  
RT: 10.270 min Scan# 1444  
Delta R.T. 0.001 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

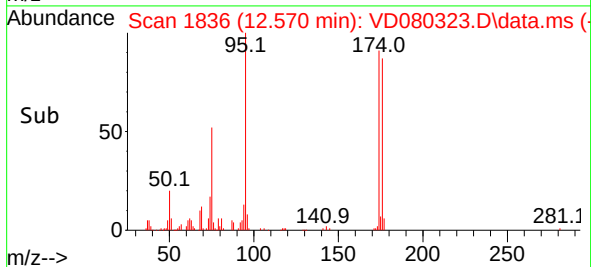
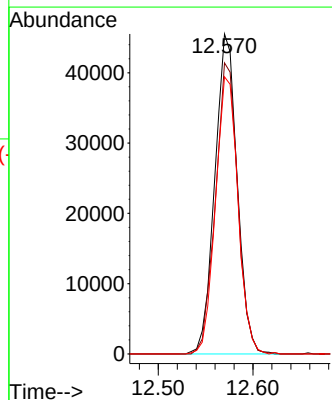
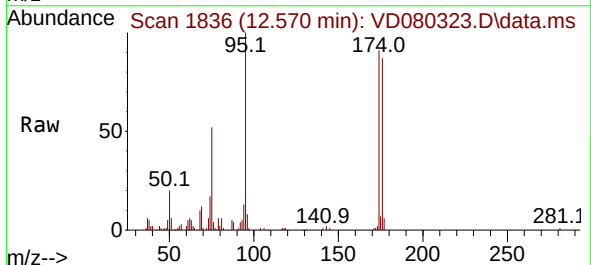
Instrument :  
MSVOA\_D  
ClientSampleId :  
PL-02-051325

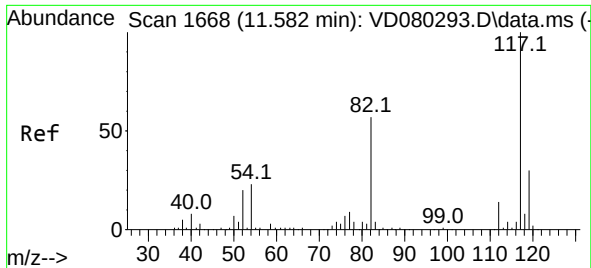
Tgt Ion: 98 Resp: 256341  
Ion Ratio Lower Upper  
98 100  
100 62.6 50.2 75.4



#62  
4-Bromofluorobenzene  
Concen: 47.175 ug/l  
RT: 12.570 min Scan# 1836  
Delta R.T. 0.001 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

Tgt Ion: 95 Resp: 74596  
Ion Ratio Lower Upper  
95 100  
174 90.9 0.0 173.4  
176 87.1 0.0 166.6

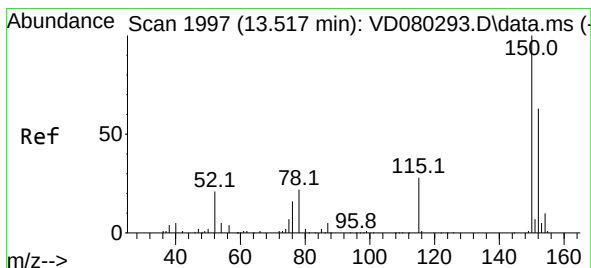
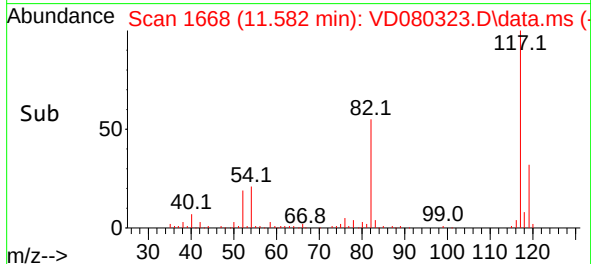
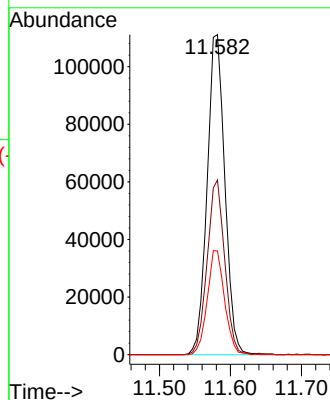
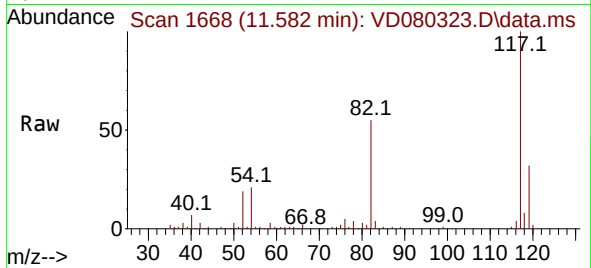




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.582 min Scan# 117  
Delta R.T. 0.001 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

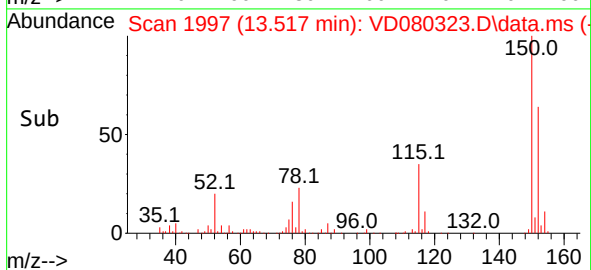
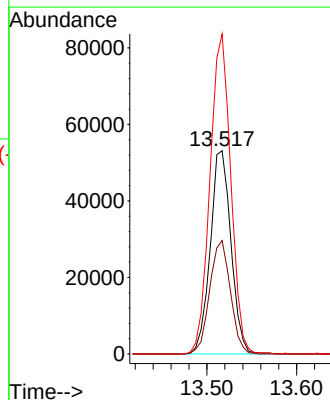
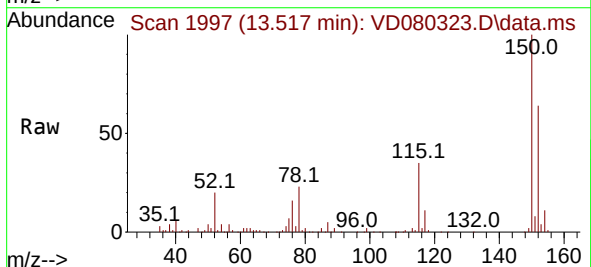
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MSVOA\_D  
ClientSampleId :  
PL-02-051325

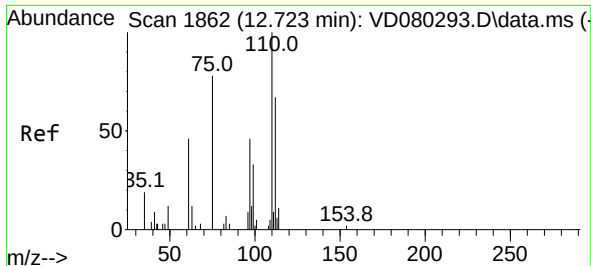
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 192977 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.6  | 45.8  | 68.6   |
| 119      | 32.4  | 26.2  | 39.2   |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.517 min Scan# 1997  
Delta R.T. 0.001 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 85243 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 55.8  | 28.9  | 86.8  |
| 150      | 157.7 | 0.0   | 354.8 |

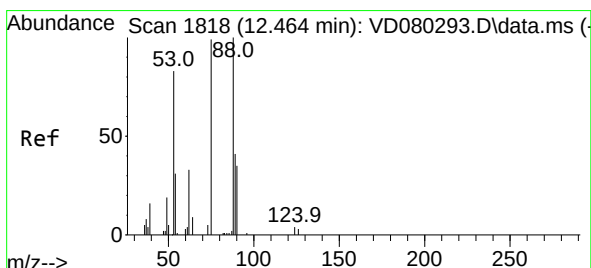
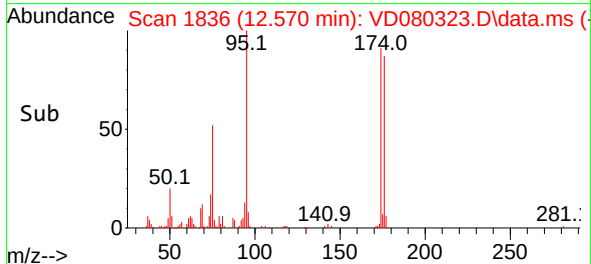
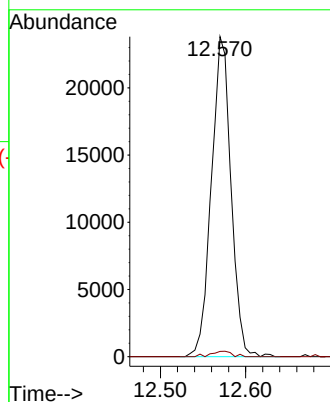
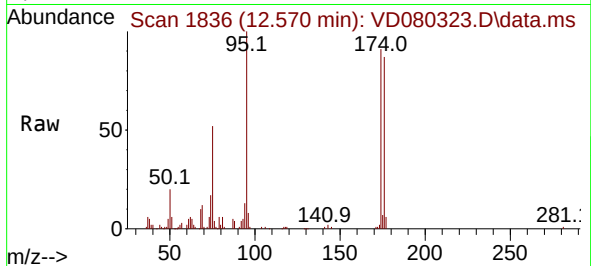




#76  
1,2,3-Trichloropropane  
Concen: 46.286 ug/l  
RT: 12.570 min Scan# 1836  
Delta R.T. -0.152 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

Instrument :  
MSVOA\_D  
ClientSampleId :  
PL-02-051325

Tgt Ion: 75 Resp: 38080  
Ion Ratio Lower Upper  
75 100  
77 1.8 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.859 ug/l  
RT: 12.570 min Scan# 1836  
Delta R.T. 0.101 min  
Lab File: VD080323.D  
Acq: 14 May 2025 15:35

Tgt Ion: 75 Resp: 38080  
Ion Ratio Lower Upper  
75 100  
53 0.5 68.7 103.1#  
89 0.0 36.1 54.1#

