

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051425\  
 Data File : VD080329.D  
 Acq On : 14 May 2025 18:22  
 Operator : RP/MD  
 Sample : Q2020-03  
 Misc : 6.17G/10ml/MSVOA\_D/SOIL/A  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-A-VOC

Quant Time: May 15 03:38:23 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

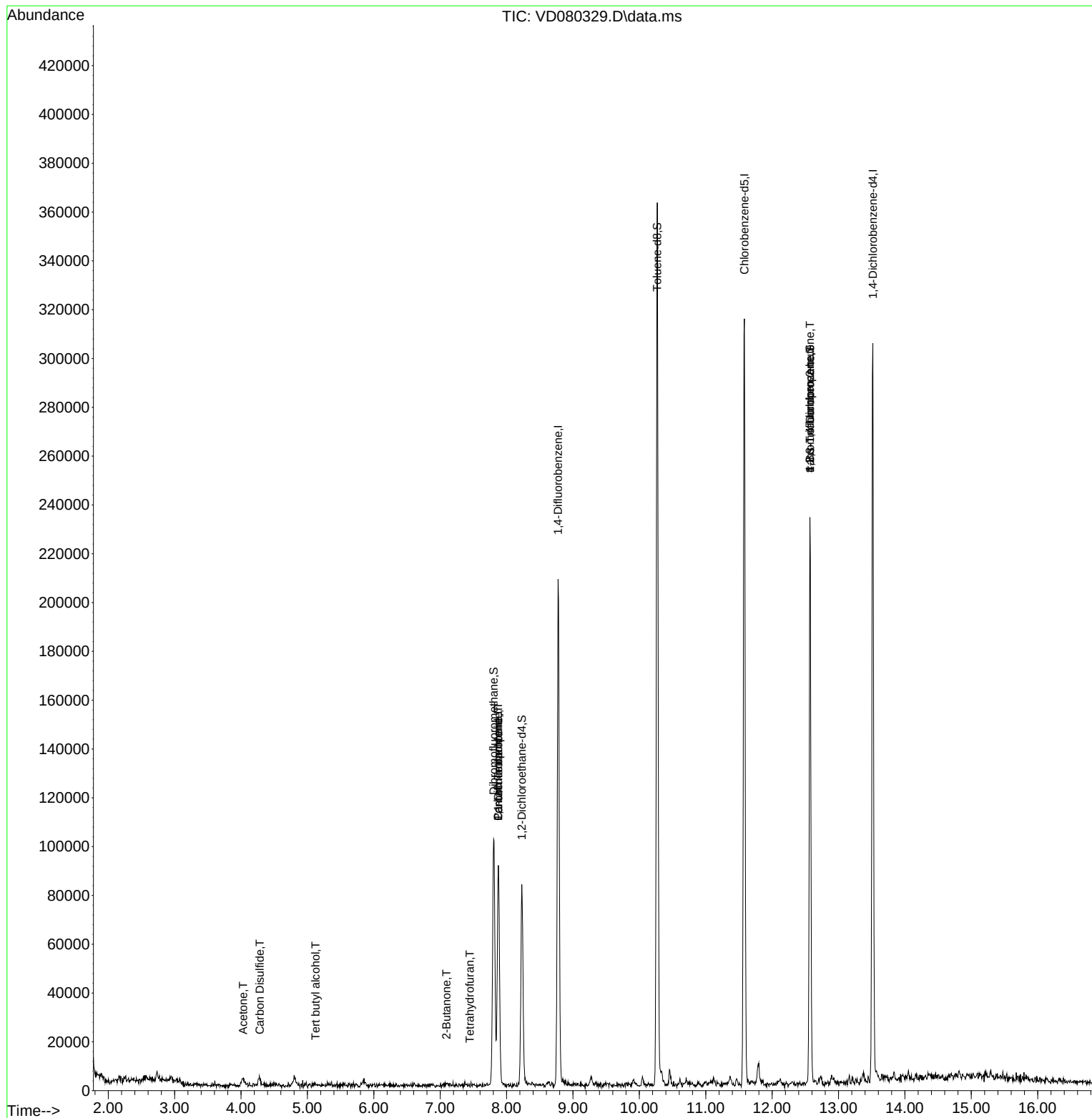
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.876  | 168   | 68787    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.776  | 114   | 176424   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.582 | 117   | 179783   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.517 | 152   | 82597    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.229  | 65    | 65309    | 73.419    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 146.840% |          |
| 35) Dibromofluoromethane      | 7.806  | 113   | 72112    | 60.985    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 121.960% |          |
| 50) Toluene-d8                | 10.270 | 98    | 246801   | 52.973    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 105.940% |          |
| 62) 4-Bromofluorobenzene      | 12.570 | 95    | 70513    | 47.153    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 94.300%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.859  | 85    | 58       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.165  | 50    | 482      | Below Cal | #          | 39       |
| 11) Tert butyl alcohol        | 5.123  | 59    | 56       | 1.037     | ug/l #     | 82       |
| 16) Acetone                   | 4.029  | 43    | 5946     | 26.550    | ug/l       | 95       |
| 17) Carbon Disulfide          | 4.282  | 76    | 5724     | 1.979     | ug/l #     | 81       |
| 20) Methylene Chloride        | 4.800  | 84    | 2371     | Below Cal | #          | 79       |
| 25) 2-Butanone                | 7.094  | 43    | 940      | 3.841     | ug/l #     | 1        |
| 29) Tetrahydrofuran           | 7.447  | 42    | 288      | 1.805     | ug/l #     | 51       |
| 36) 1,1-Dichloropropene       | 7.876  | 75    | 5703     | 3.227     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.876  | 117   | 6980     | 3.787     | ug/l #     | 18       |
| 76) 1,2,3-Trichloropropane    | 12.570 | 75    | 37154    | 46.607    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.570 | 75    | 37154    | 88.469    | ug/l #     | 15       |
| -----                         |        |       |          |           |            |          |

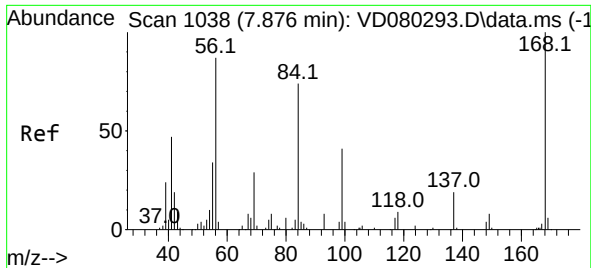
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051425\  
Data File : VD080329.D  
Acq On : 14 May 2025 18:22  
Operator : RP/MD  
Sample : Q2020-03  
Misc : 6.17G/10ml/MSVOA\_D/SOIL/A  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-A-VOC

Quant Time: May 15 03:38:23 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

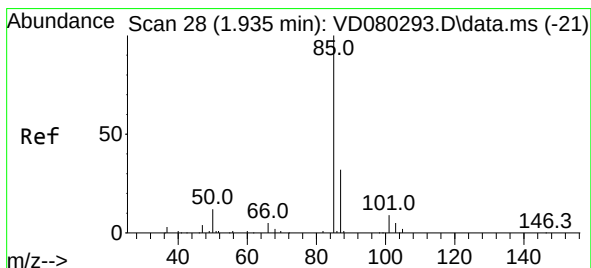
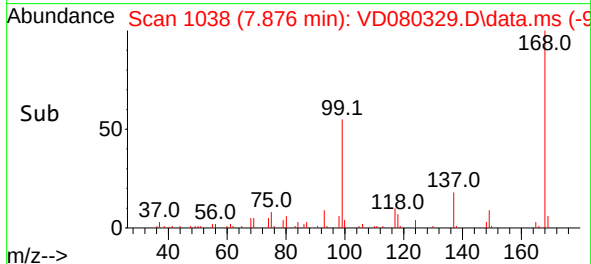
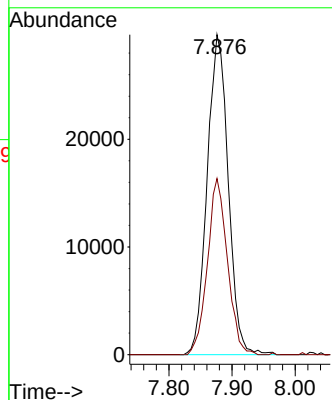
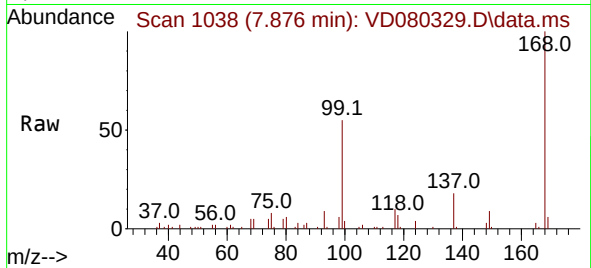




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.876 min Scan# 10  
Delta R.T. 0.001 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

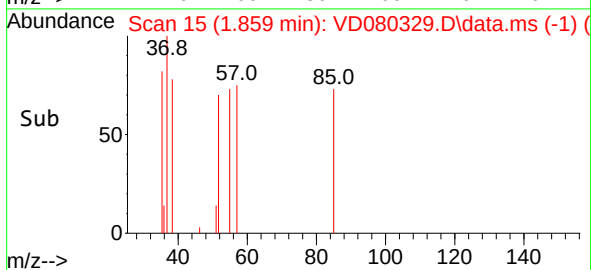
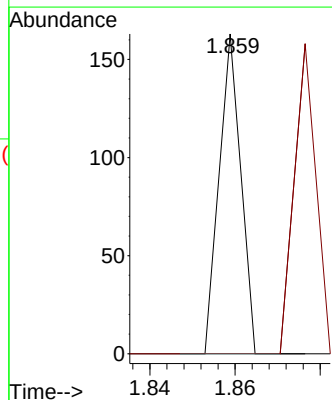
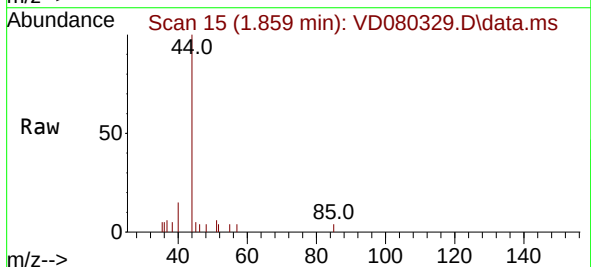
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-A-VOC

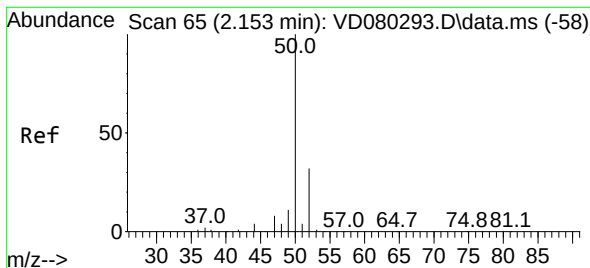
Tgt Ion:168 Resp: 68787  
Ion Ratio Lower Upper  
168 100  
99 55.0 46.0 69.0



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.859 min Scan# 15  
Delta R.T. -0.075 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

Tgt Ion: 85 Resp: 58  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#





#3

Chloromethane

Concen: Below Cal

RT: 2.165 min Scan# 61

Delta R.T. 0.019 min

Lab File: VD080329.D

Acq: 14 May 2025 18:22

Instrument :

MSVOA\_D

ClientSampleId :

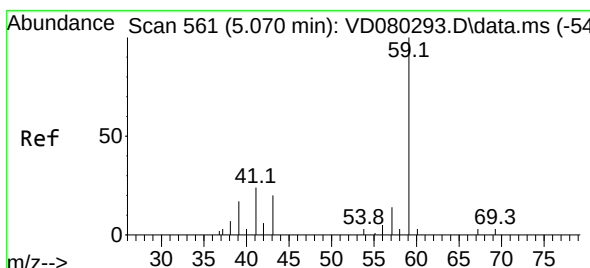
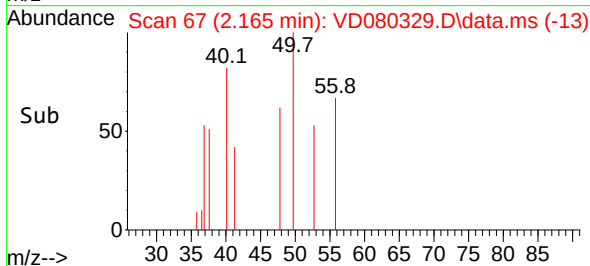
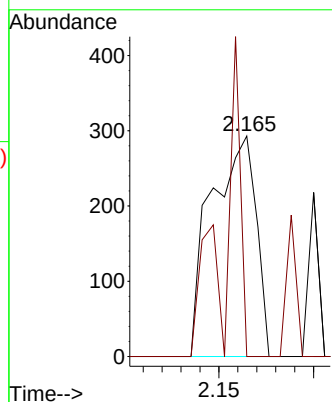
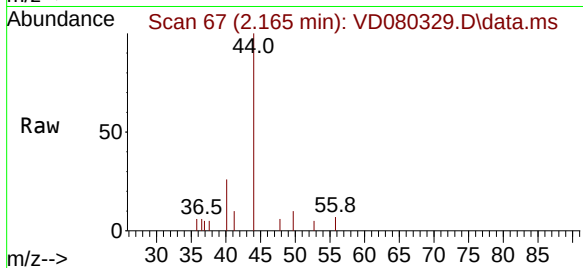
TP-A-VOC

Tgt Ion: 50 Resp: 482

Ion Ratio Lower Upper

50 100

52 0.0 28.8 43.2#



#11

Tert butyl alcohol

Concen: 1.037 ug/l

RT: 5.123 min Scan# 570

Delta R.T. 0.065 min

Lab File: VD080329.D

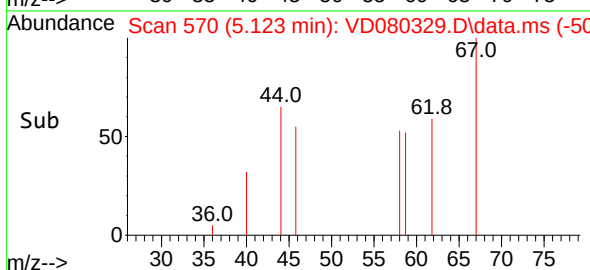
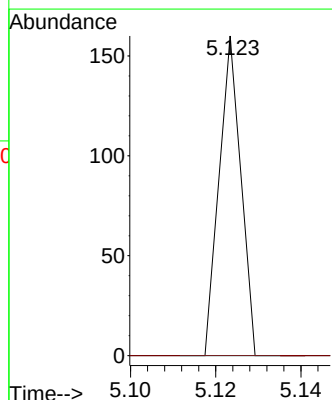
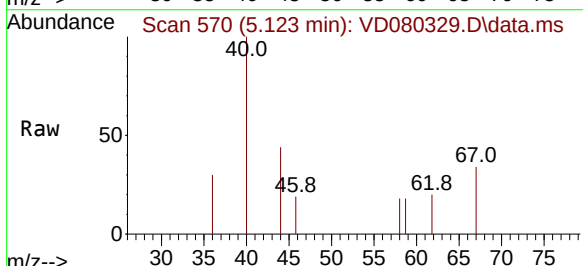
Acq: 14 May 2025 18:22

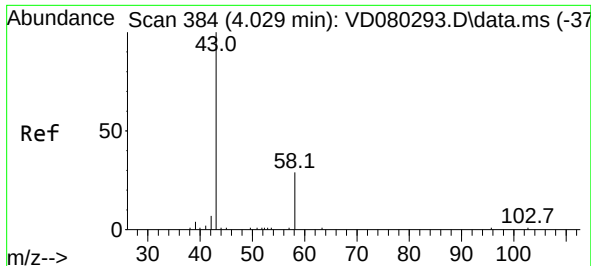
Tgt Ion: 59 Resp: 56

Ion Ratio Lower Upper

59 100

57 0.0 4.8 7.2#





#16

Acetone

Concen: 26.550 ug/l

RT: 4.029 min Scan# 384

Delta R.T. 0.006 min

Lab File: VD080329.D

Acq: 14 May 2025 18:22

Instrument :

MSVOA\_D

ClientSampleId :

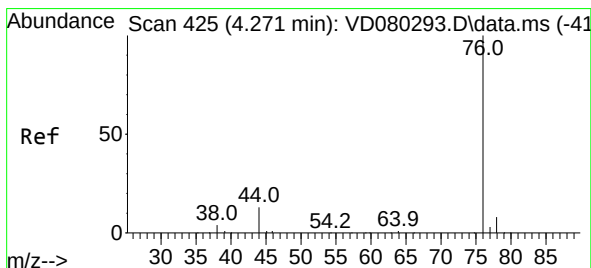
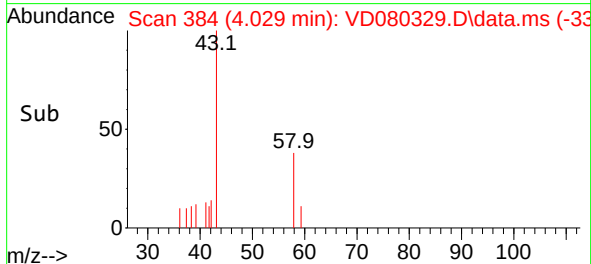
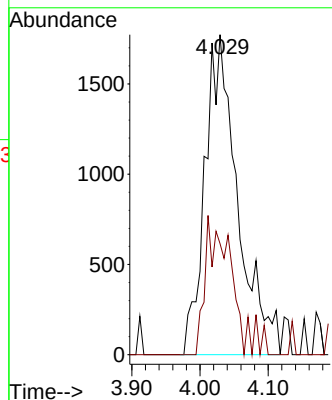
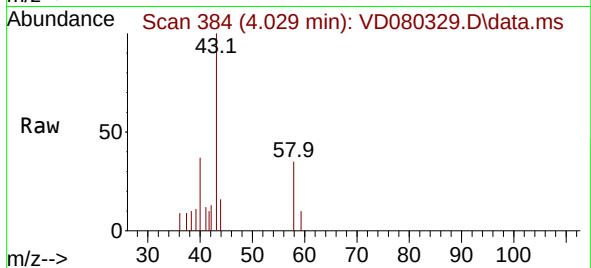
TP-A-VOC

Tgt Ion: 43 Resp: 5946

Ion Ratio Lower Upper

43 100

58 34.7 25.4 38.2



#17

Carbon Disulfide

Concen: 1.979 ug/l

RT: 4.282 min Scan# 427

Delta R.T. 0.012 min

Lab File: VD080329.D

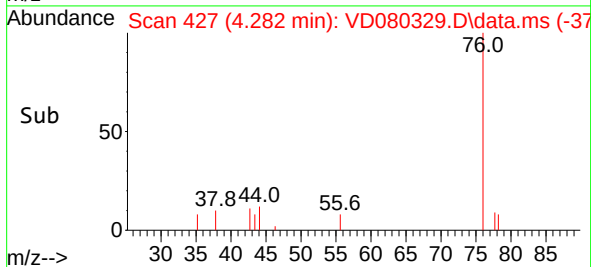
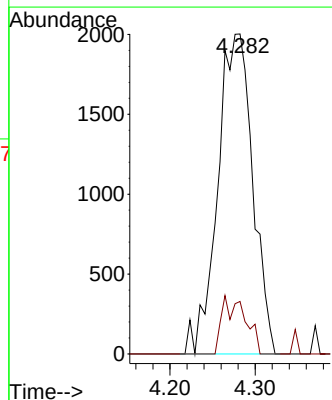
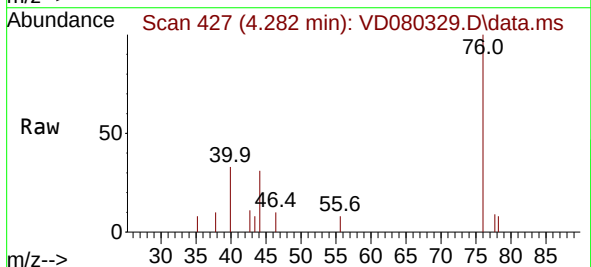
Acq: 14 May 2025 18:22

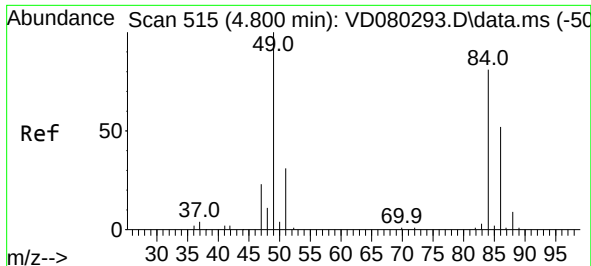
Tgt Ion: 76 Resp: 5724

Ion Ratio Lower Upper

76 100

78 16.4 7.5 11.3#

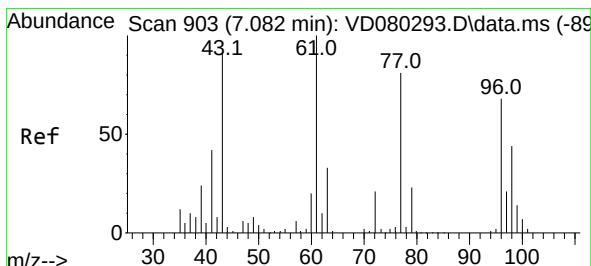
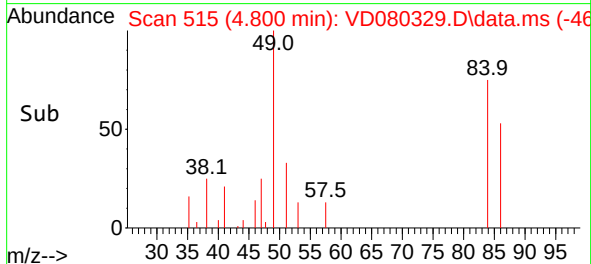
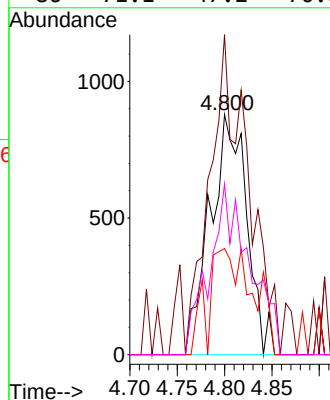
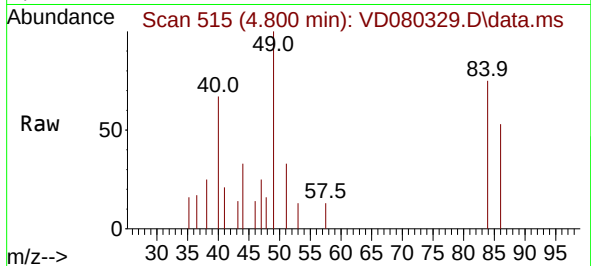




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.800 min Scan# 515  
Delta R.T. -0.005 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

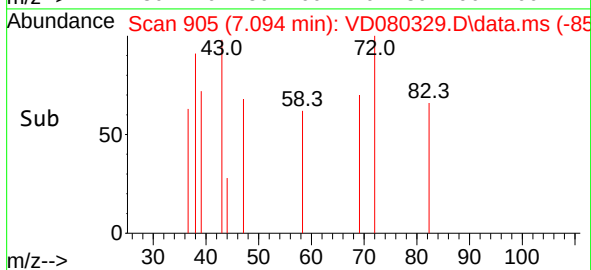
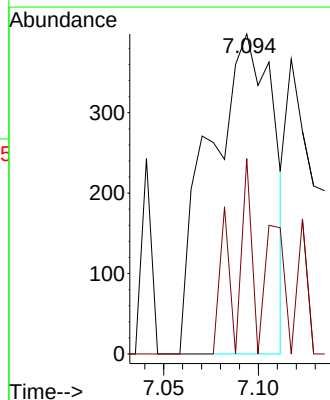
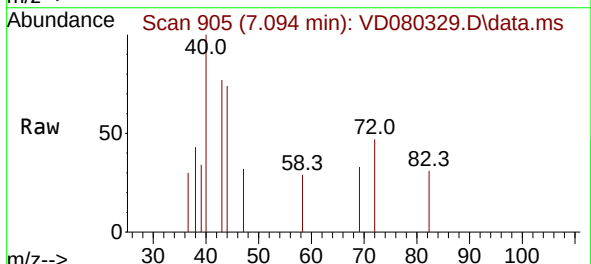
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-A-VOC

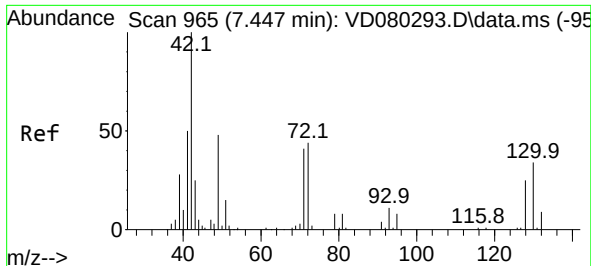
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2371   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 133.2 | 86.5  | 129.7# |
| 51       | 44.1  | 26.9  | 40.3#  |
| 86       | 71.1  | 47.2  | 70.8#  |



#25  
2-Butanone  
Concen: 3.841 ug/l  
RT: 7.094 min Scan# 905  
Delta R.T. 0.007 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 940   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 142.1 | 22.3  | 33.5# |





#29

Tetrahydrofuran

Concen: 1.805 ug/l

RT: 7.447 min Scan# 90

Delta R.T. 0.001 min

Lab File: VD080329.D

Acq: 14 May 2025 18:22

Instrument :

MSVOA\_D

ClientSampleId :

TP-A-VOC

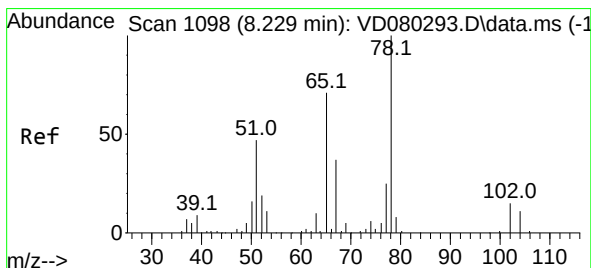
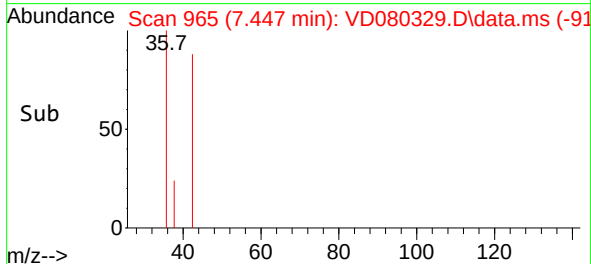
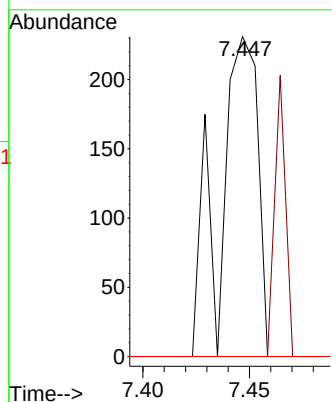
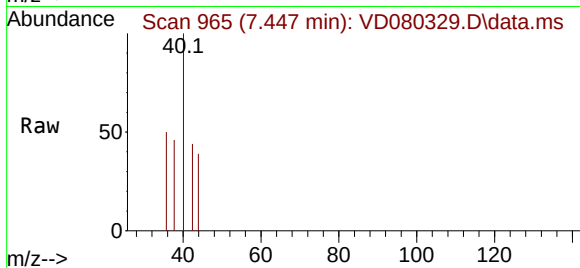
Tgt Ion: 42 Resp: 288

Ion Ratio Lower Upper

42 100

72 25.0 36.7 55.1#

71 0.0 34.4 51.6#



#33

1,2-Dichloroethane-d4

Concen: 73.419 ug/l

RT: 8.229 min Scan# 1098

Delta R.T. 0.001 min

Lab File: VD080329.D

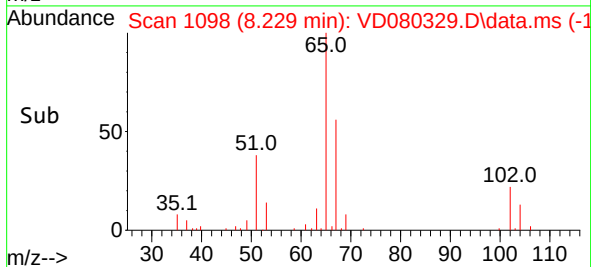
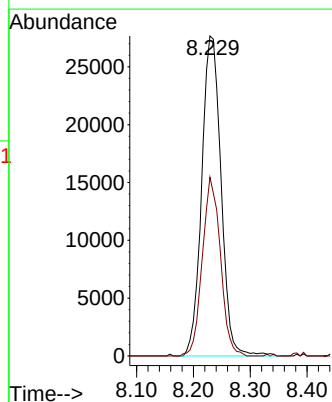
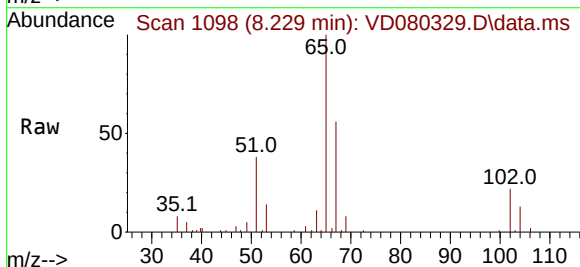
Acq: 14 May 2025 18:22

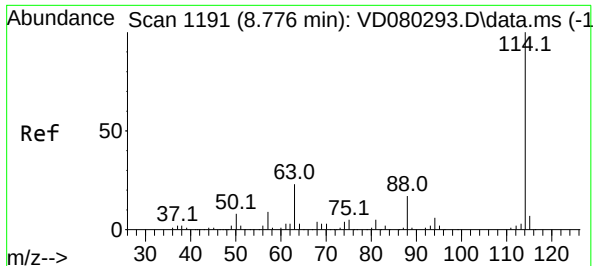
Tgt Ion: 65 Resp: 65309

Ion Ratio Lower Upper

65 100

67 52.2 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: VD080329.D

Acq: 14 May 2025 18:22

Instrument :

MSVOA\_D

ClientSampleId :

TP-A-VOC

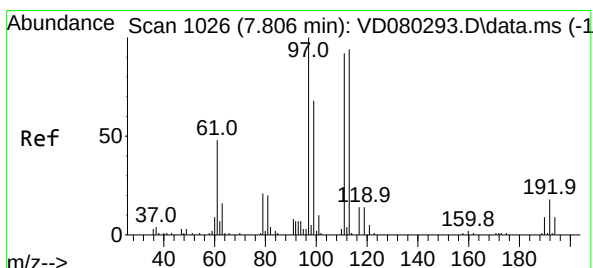
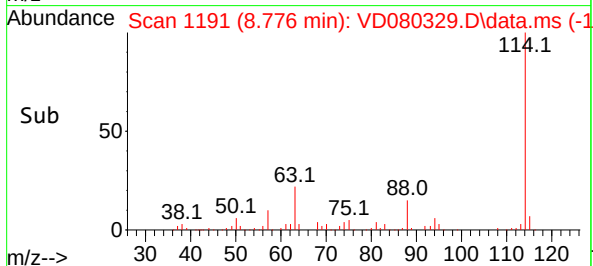
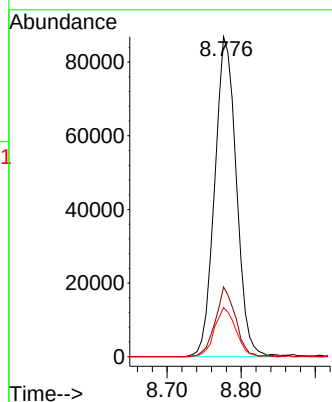
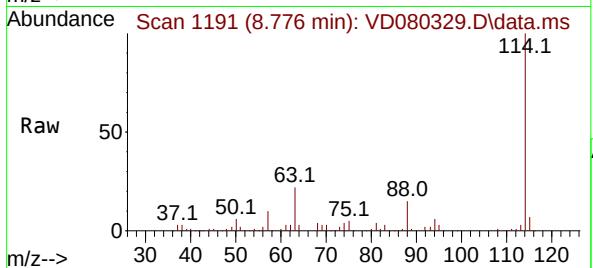
Tgt Ion:114 Resp: 176424

Ion Ratio Lower Upper

114 100

63 21.8 0.0 38.8

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 60.985 ug/l

RT: 7.806 min Scan# 1026

Delta R.T. 0.001 min

Lab File: VD080329.D

Acq: 14 May 2025 18:22

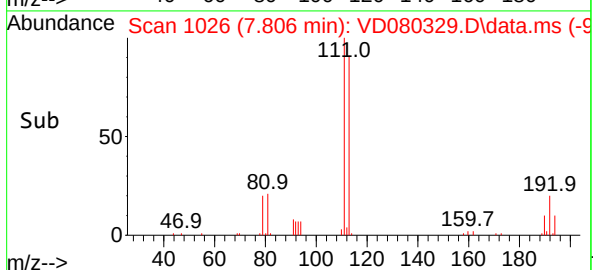
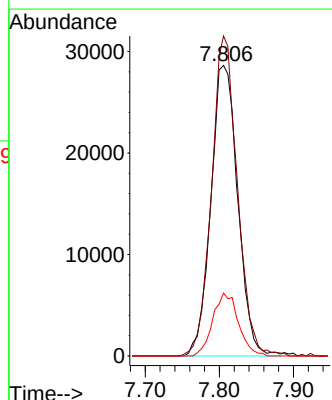
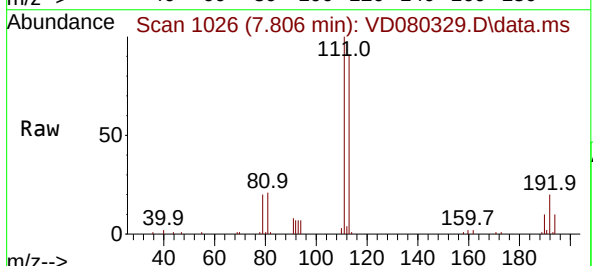
Tgt Ion:113 Resp: 72112

Ion Ratio Lower Upper

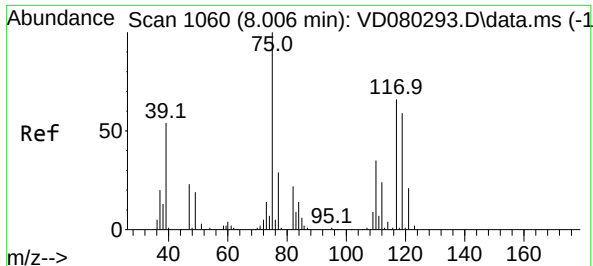
113 100

111 105.5 82.5 123.7

192 20.6 16.6 25.0







#36

1,1-Dichloropropene

Concen: 3.227 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.129 min

Lab File: VD080329.D

Acq: 14 May 2025 18:22

Instrument :

MSVOA\_D

ClientSampleId :

TP-A-VOC

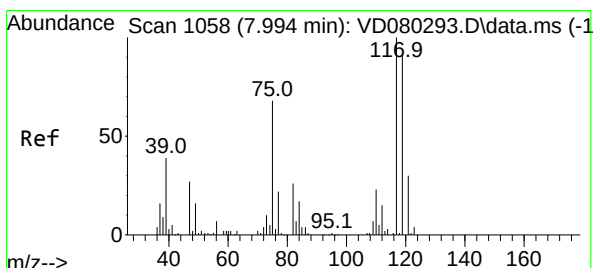
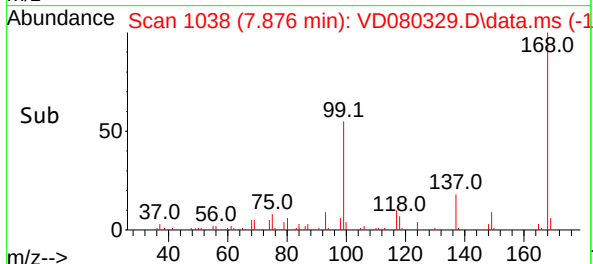
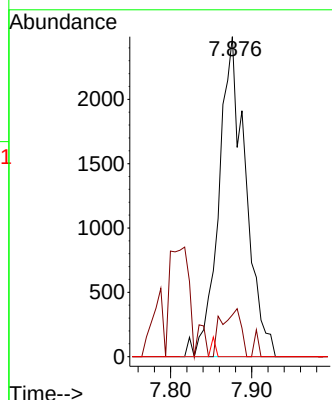
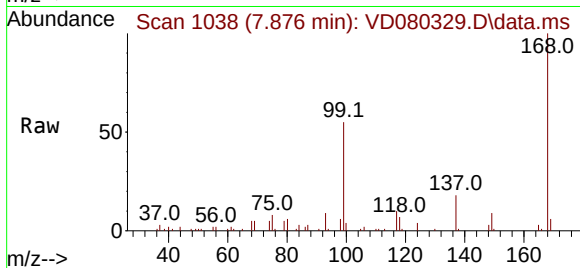
Tgt Ion: 75 Resp: 5703

Ion Ratio Lower Upper

75 100

110 10.9 18.4 55.0#

77 0.0 25.6 38.4#



#38

Carbon Tetrachloride

Concen: 3.787 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.111 min

Lab File: VD080329.D

Acq: 14 May 2025 18:22

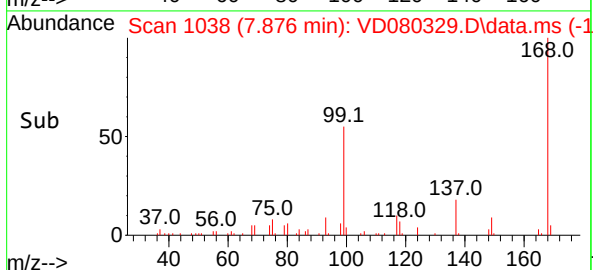
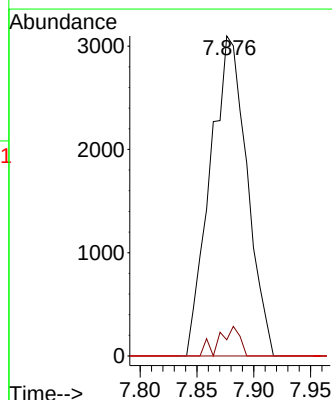
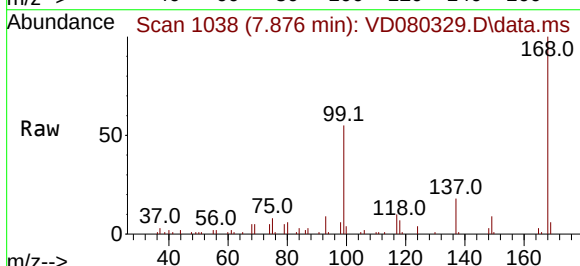
Tgt Ion: 117 Resp: 6980

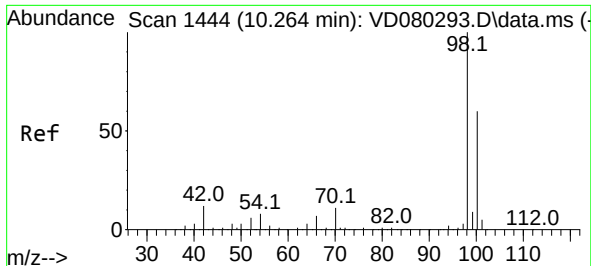
Ion Ratio Lower Upper

117 100

119 5.1 73.4 110.0#

121 0.0 24.5 36.7#

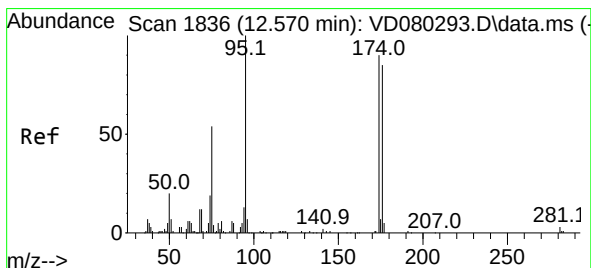
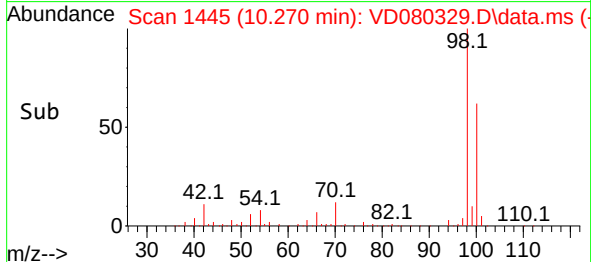
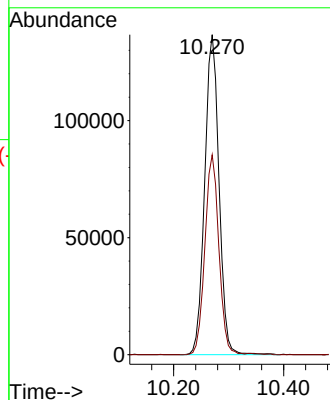
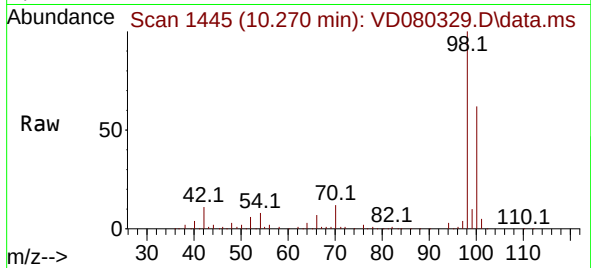




#50  
Toluene-d8  
Concen: 52.973 ug/l  
RT: 10.270 min Scan# 1444  
Delta R.T. 0.001 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

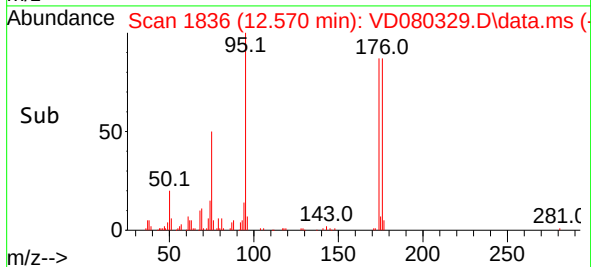
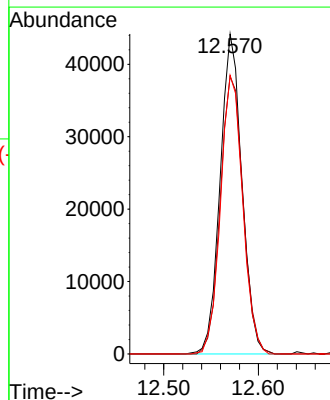
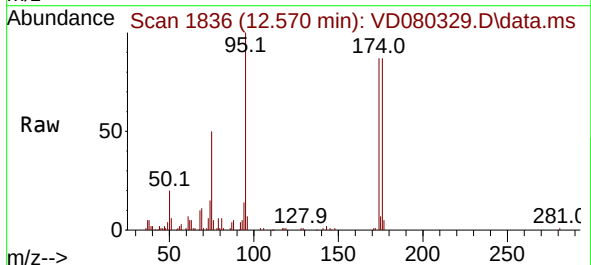
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-A-VOC

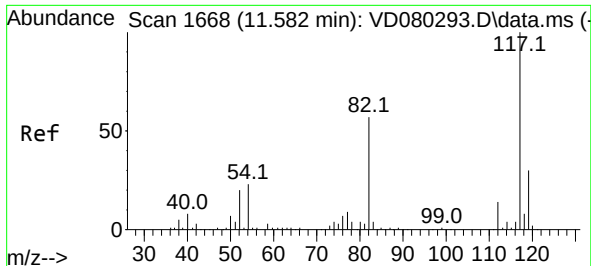
Tgt Ion: 98 Resp: 246801  
Ion Ratio Lower Upper  
98 100  
100 61.0 50.2 75.4



#62  
4-Bromofluorobenzene  
Concen: 47.153 ug/l  
RT: 12.570 min Scan# 1836  
Delta R.T. 0.001 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

Tgt Ion: 95 Resp: 70513  
Ion Ratio Lower Upper  
95 100  
174 91.1 0.0 173.4  
176 88.6 0.0 166.6

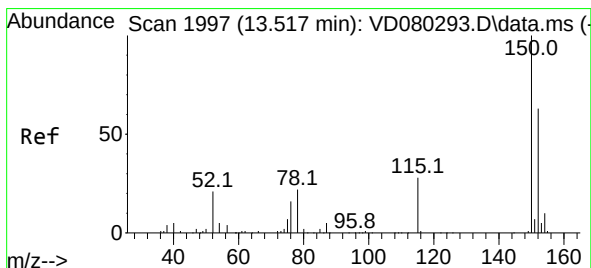
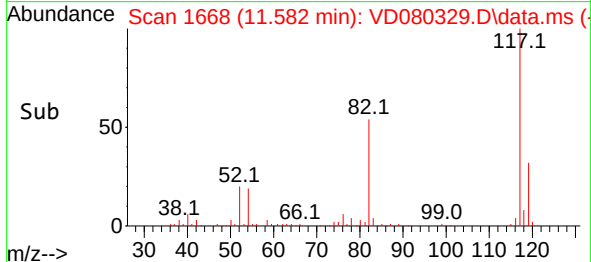
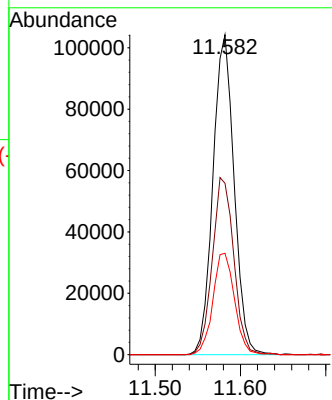
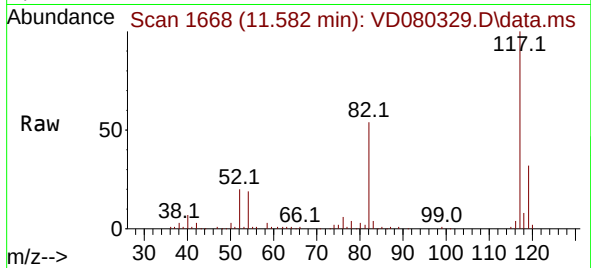




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.582 min Scan# 1  
Delta R.T. 0.001 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

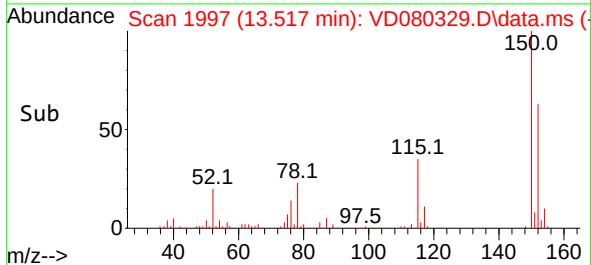
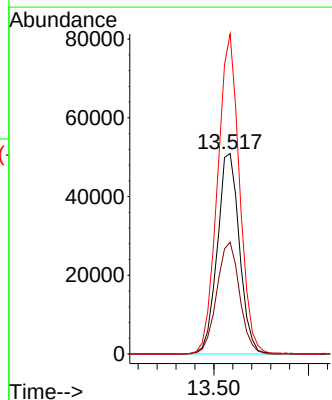
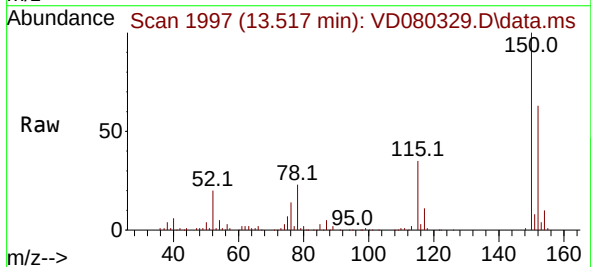
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-A-VOC

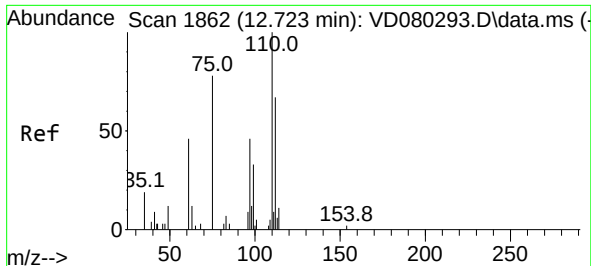
Tgt Ion:117 Resp: 179783  
Ion Ratio Lower Upper  
117 100  
82 53.5 45.8 68.6  
119 31.7 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.517 min Scan# 1997  
Delta R.T. 0.001 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

Tgt Ion:152 Resp: 82597  
Ion Ratio Lower Upper  
152 100  
115 57.7 28.9 86.8  
150 158.4 0.0 354.8

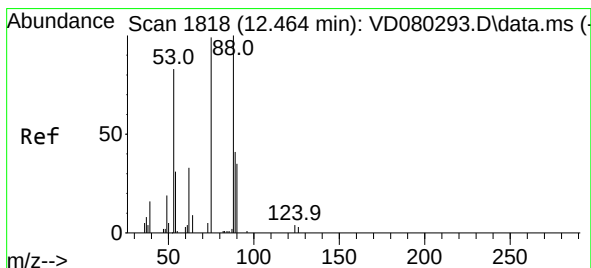
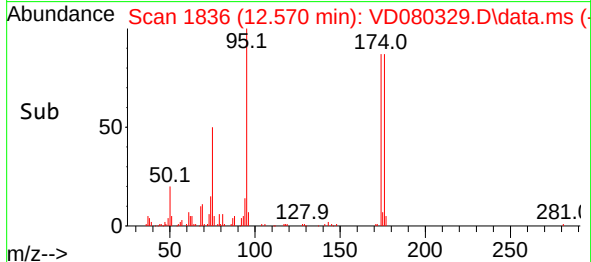
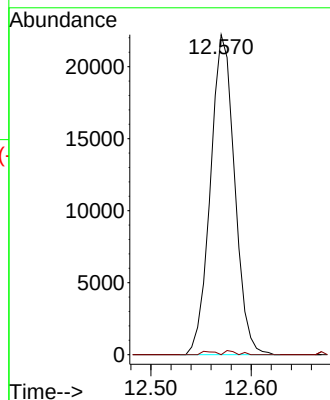
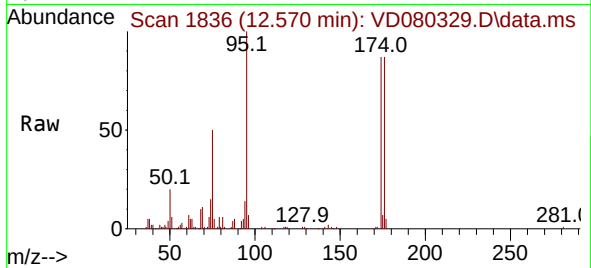




#76  
1,2,3-Trichloropropane  
Concen: 46.607 ug/l  
RT: 12.570 min Scan# 1836  
Delta R.T. -0.152 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-A-VOC

Tgt Ion: 75 Resp: 37154  
Ion Ratio Lower Upper  
75 100  
77 0.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.469 ug/l  
RT: 12.570 min Scan# 1836  
Delta R.T. 0.101 min  
Lab File: VD080329.D  
Acq: 14 May 2025 18:22

Tgt Ion: 75 Resp: 37154  
Ion Ratio Lower Upper  
75 100  
53 0.2 68.7 103.1#  
89 0.0 36.1 54.1#

