

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051625\  
 Data File : VD080372.D  
 Acq On : 16 May 2025 15:33  
 Operator : RP/MD  
 Sample : Q2021-02  
 Misc : 5.26G/5ml/MSVOA\_D/SOIL/A  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VOC

Quant Time: May 17 01:20:51 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

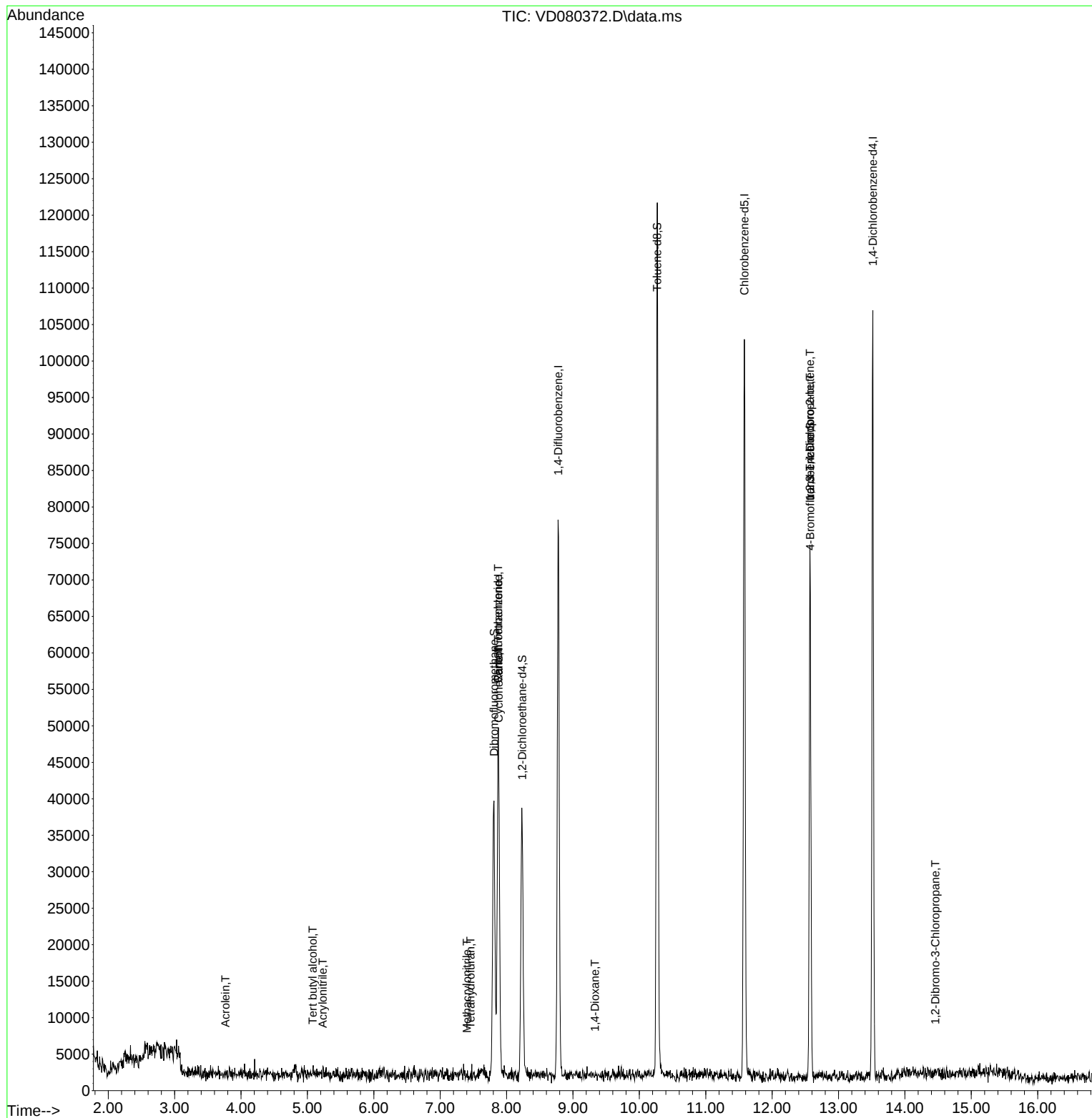
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.876  | 168   | 34765    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.776  | 114   | 63747    | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 60599    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.517 | 152   | 26581    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.235  | 65    | 29008    | 64.524    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 129.040% |          |
| 35) Dibromofluoromethane      | 7.811  | 113   | 26200    | 61.322    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 122.640% |          |
| 50) Toluene-d8                | 10.270 | 98    | 81694    | 48.528    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 97.060%  |          |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 21452    | 39.702    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 79.400%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 2.023  | 85    | 61       | Below Cal | #          | 43       |
| 3) Chloromethane              | 2.152  | 50    | 221      | Below Cal | #          | 39       |
| 11) Tert butyl alcohol        | 5.082  | 59    | 57       | 2.089     | ug/l #     | 1        |
| 13) Acrolein                  | 3.764  | 56    | 60       | 1.250     | ug/l #     | 55       |
| 15) Acrylonitrile             | 5.229  | 53    | 138      | 1.342     | ug/l #     | 70       |
| 16) Acetone                   | 4.052  | 43    | 1016     | Below Cal | #          | 43       |
| 20) Methylene Chloride        | 4.799  | 84    | 405      | Below Cal | #          | 36       |
| 29) Tetrahydrofuran           | 7.458  | 42    | 139      | 1.723     | ug/l #     | 32       |
| 31) Cyclohexane               | 7.882  | 56    | 1210     | 1.657     | ug/l #     | 39       |
| 38) Carbon Tetrachloride      | 7.876  | 117   | 3725     | 5.594     | ug/l #     | 23       |
| 41) Methacrylonitrile         | 7.405  | 41    | 198      | 1.072     | ug/l #     | 53       |
| 49) 1,4-Dioxane               | 9.329  | 88    | 59       | 17.763    | ug/l #     | 21       |
| 76) 1,2,3-Trichloropropane    | 12.570 | 75    | 11001    | 42.882    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.570 | 75    | 11001    | 81.397    | ug/l #     | 15       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.458 | 75    | 68       | 1.125     | ug/l #     | 2        |
| -----                         |        |       |          |           |            |          |

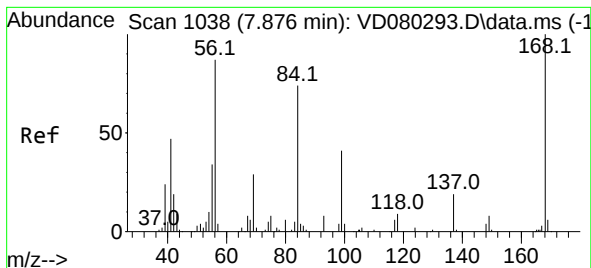
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051625\  
Data File : VD080372.D  
Acq On : 16 May 2025 15:33  
Operator : RP/MD  
Sample : Q2021-02  
Misc : 5.26G/5ml/MSVOA\_D/SOIL/A  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

Quant Time: May 17 01:20:51 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

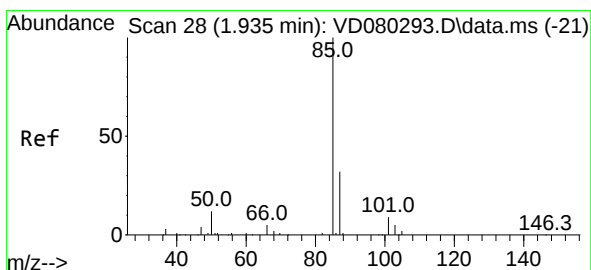
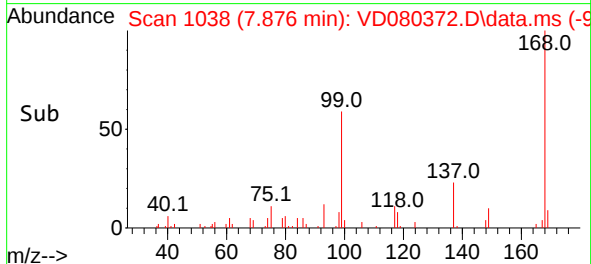
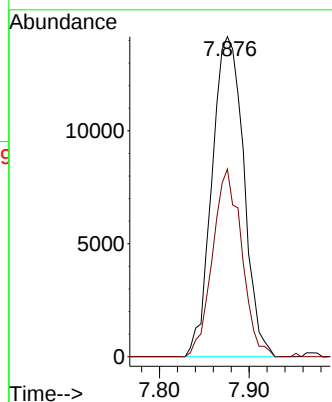
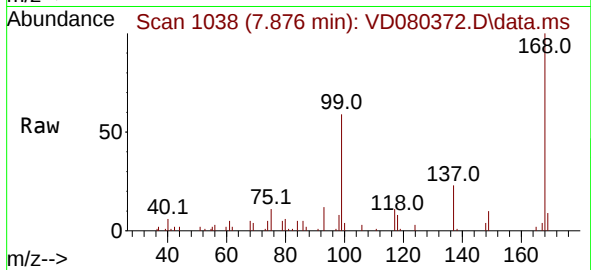




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.876 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

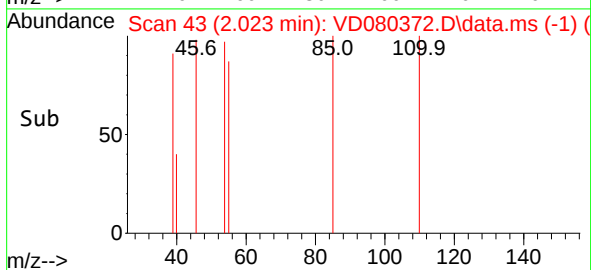
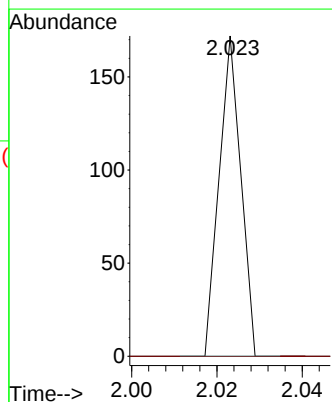
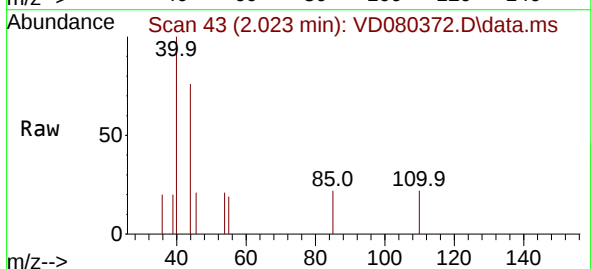
Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

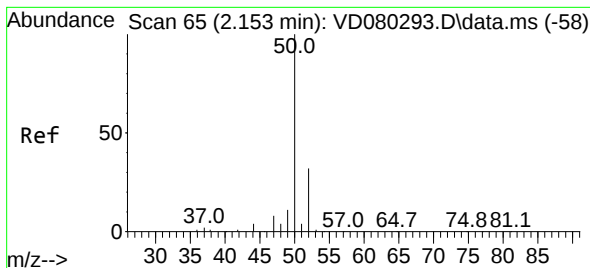
Tgt Ion:168 Resp: 34765  
Ion Ratio Lower Upper  
168 100  
99 58.6 46.0 69.0



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 2.023 min Scan# 43  
Delta R.T. 0.089 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

Tgt Ion: 85 Resp: 61  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.1 48.2#





#3

Chloromethane

Concen: Below Cal

RT: 2.152 min Scan# 61

Delta R.T. 0.006 min

Lab File: VD080372.D

Acq: 16 May 2025 15:33

Instrument :

MSVOA\_D

ClientSampleId :

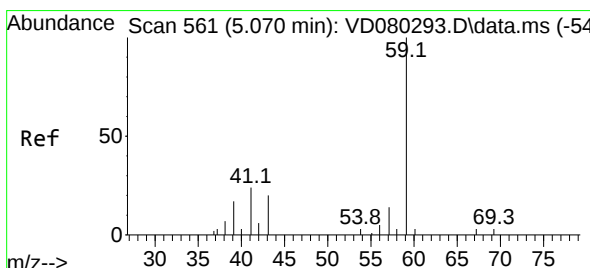
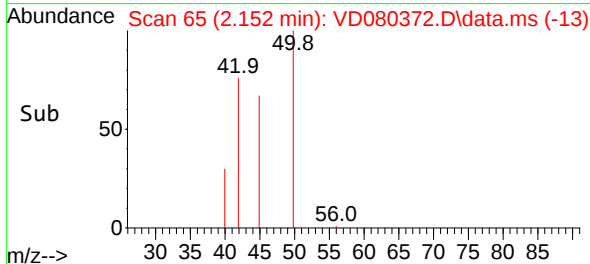
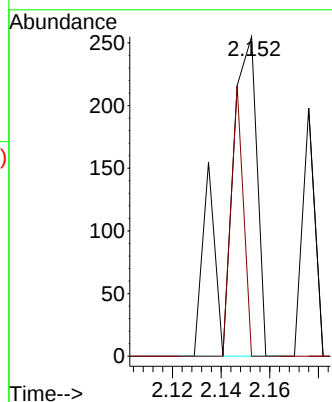
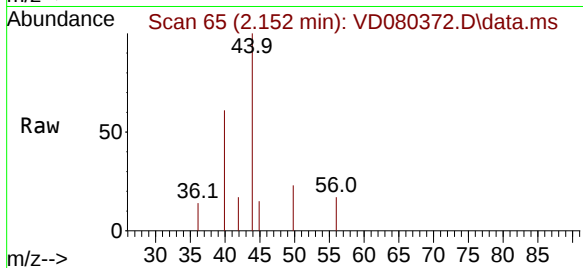
VOC

Tgt Ion: 50 Resp: 221

Ion Ratio Lower Upper

50 100

52 0.0 28.8 43.2#



#11

Tert butyl alcohol

Concen: 2.089 ug/l

RT: 5.082 min Scan# 563

Delta R.T. 0.024 min

Lab File: VD080372.D

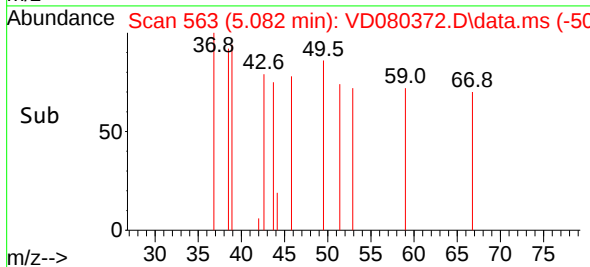
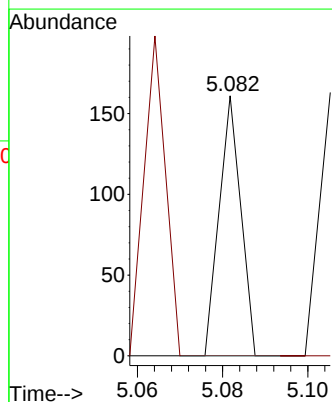
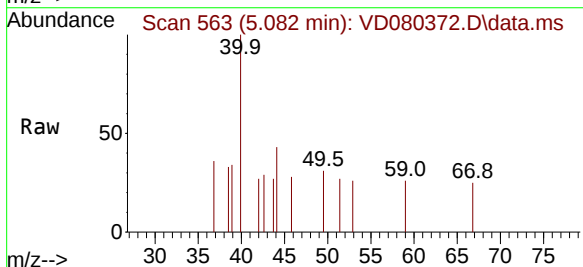
Acq: 16 May 2025 15:33

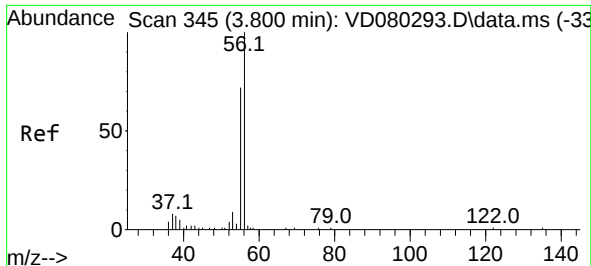
Tgt Ion: 59 Resp: 57

Ion Ratio Lower Upper

59 100

57 122.8 4.8 7.2#





#13

Acrolein

Concen: 1.250 ug/l

RT: 3.764 min Scan# 31

Delta R.T. -0.029 min

Lab File: VD080372.D

Acq: 16 May 2025 15:33

Instrument :

MSVOA\_D

ClientSampleId :

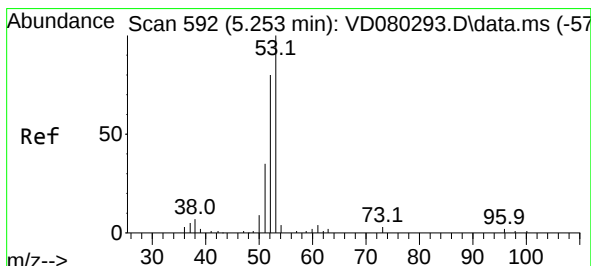
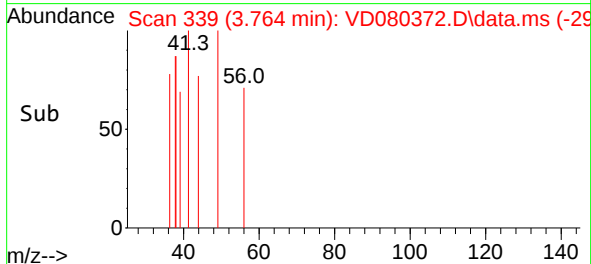
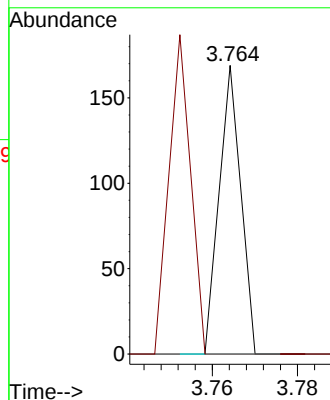
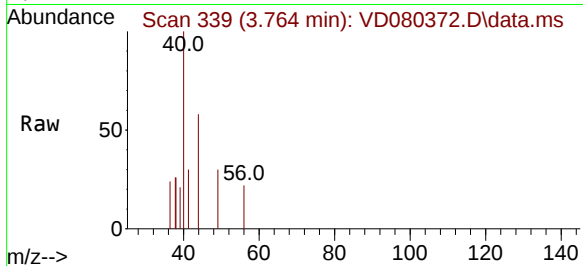
VOC

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 110.0 58.2 87.2#



#15

Acrylonitrile

Concen: 1.342 ug/l

RT: 5.229 min Scan# 588

Delta R.T. -0.023 min

Lab File: VD080372.D

Acq: 16 May 2025 15:33

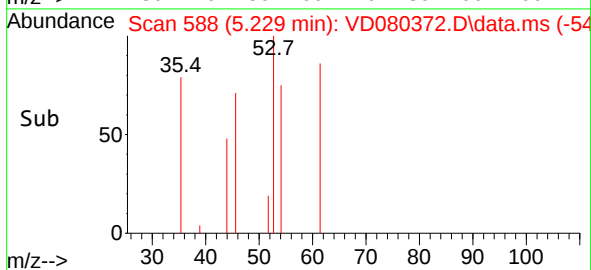
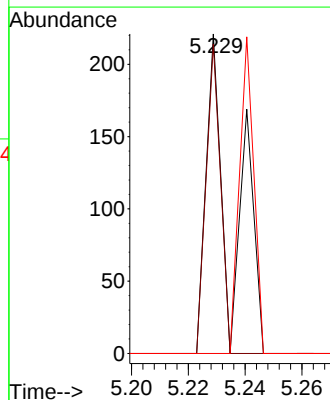
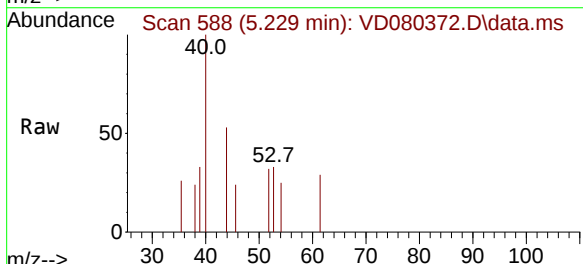
Tgt Ion: 53 Resp: 138

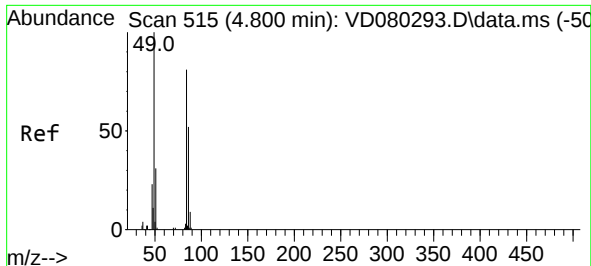
Ion Ratio Lower Upper

53 100

52 55.1 66.2 99.4#

51 55.8 30.3 45.5#

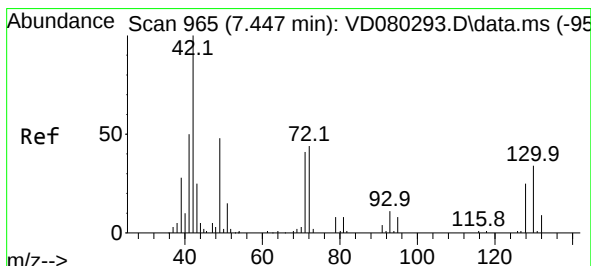
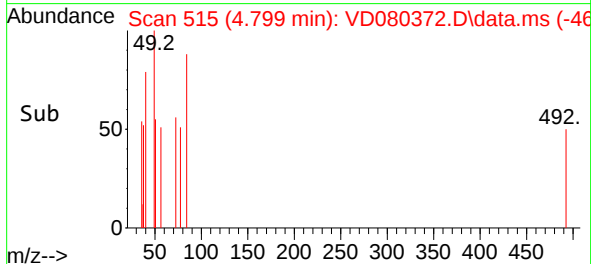
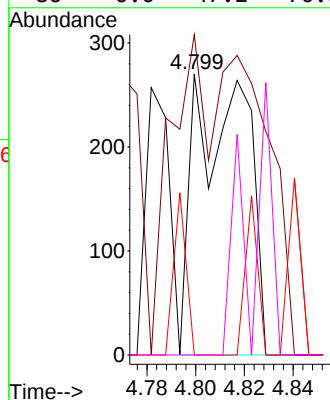
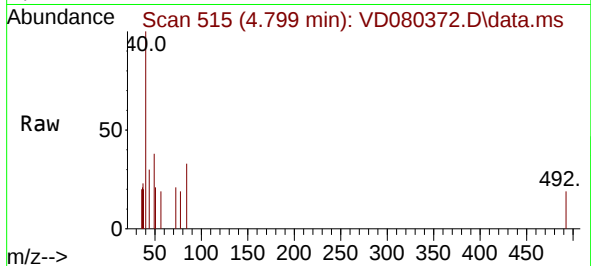




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.799 min Scan# 515  
Delta R.T. -0.006 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

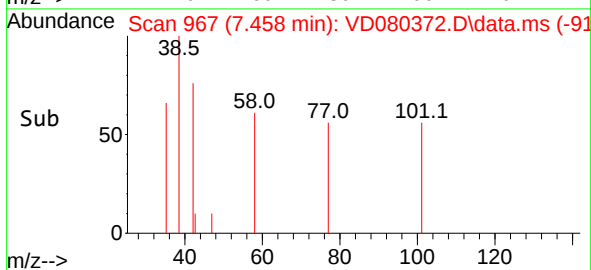
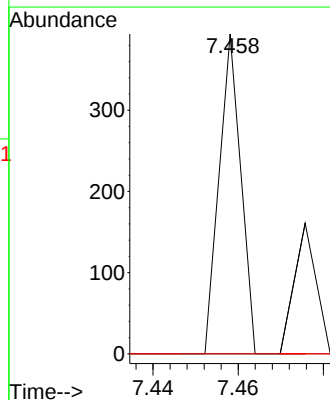
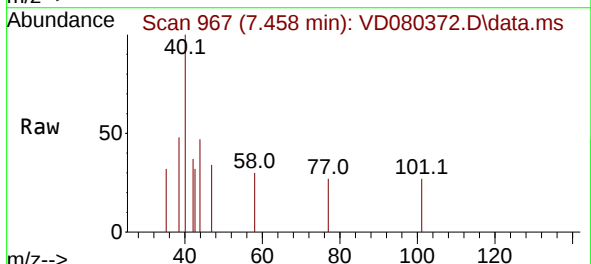
Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

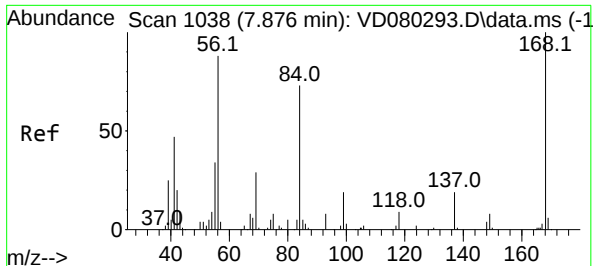
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 405    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 47.8  | 86.5  | 129.7# |
| 51       | 0.0   | 26.9  | 40.3#  |
| 86       | 0.0   | 47.2  | 70.8#  |



#29  
Tetrahydrofuran  
Concen: 1.723 ug/l  
RT: 7.458 min Scan# 967  
Delta R.T. 0.012 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 139   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 36.7  | 55.1# |
| 71       | 0.0   | 34.4  | 51.6# |

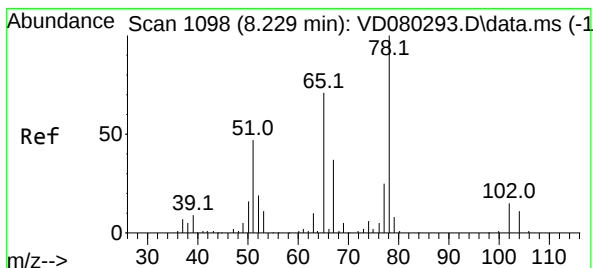
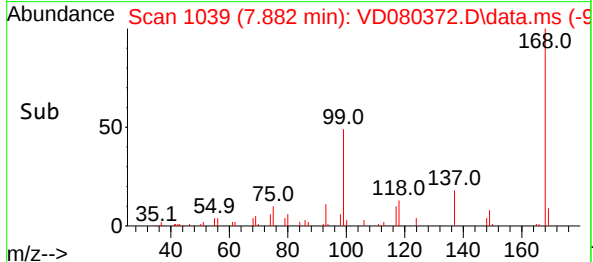
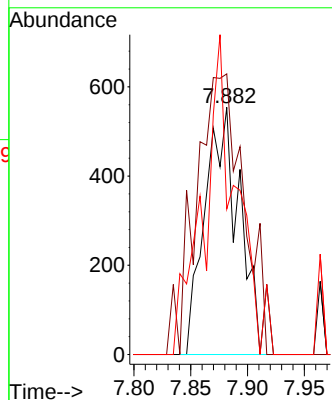
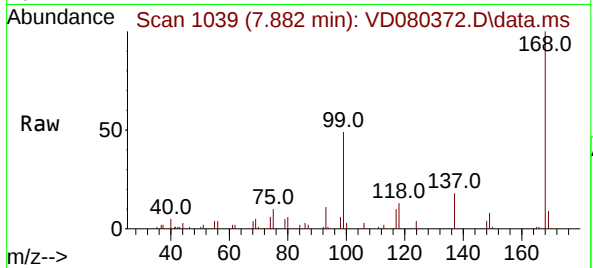




#31  
Cyclohexane  
Concen: 1.657 ug/l  
RT: 7.882 min Scan# 1038  
Delta R.T. 0.001 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

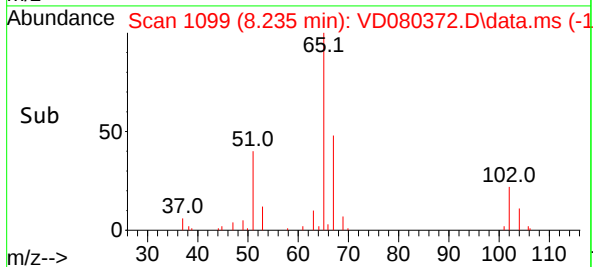
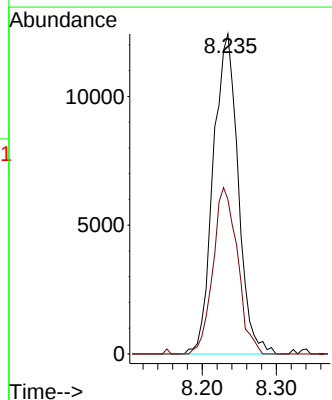
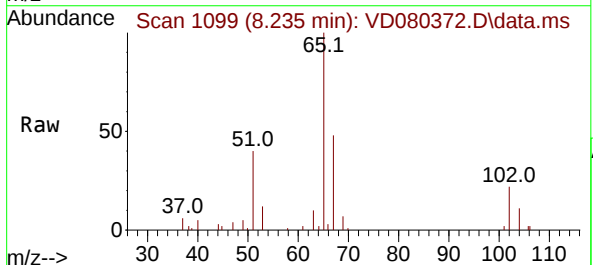
Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

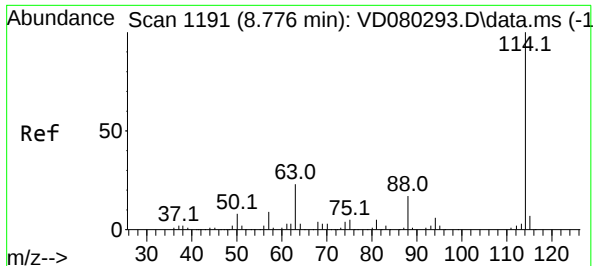
Tgt Ion: 56 Resp: 1210  
Ion Ratio Lower Upper  
56 100  
69 113.5 27.3 40.9#  
84 58.8 70.2 105.4#



#33  
1,2-Dichloroethane-d4  
Concen: 64.524 ug/l  
RT: 8.235 min Scan# 1099  
Delta R.T. 0.007 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

Tgt Ion: 65 Resp: 29008  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 109.2

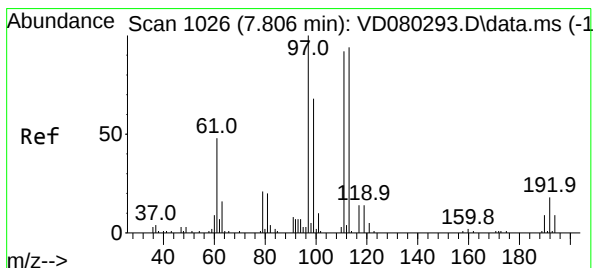
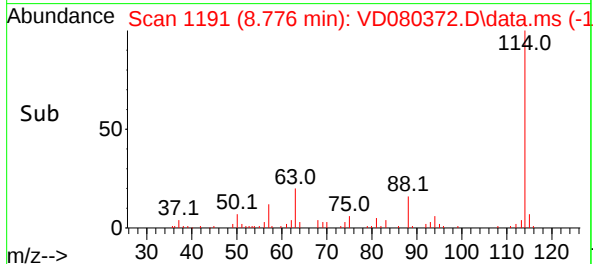
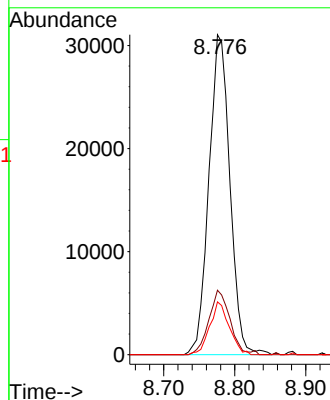
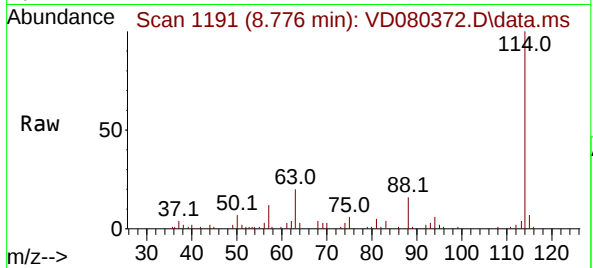




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.776 min Scan# 1191  
Delta R.T. 0.001 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

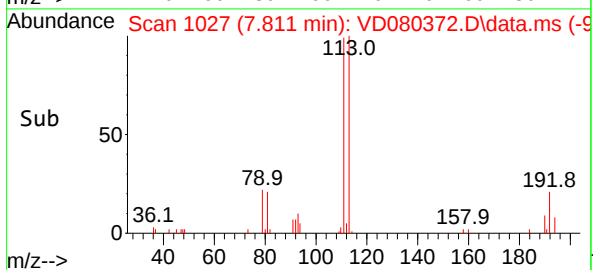
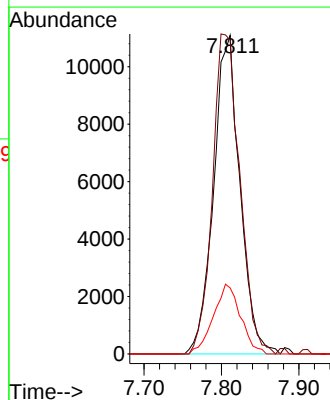
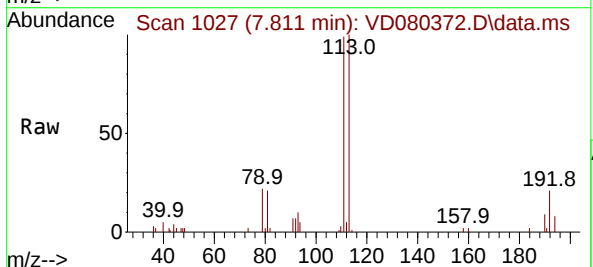
Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

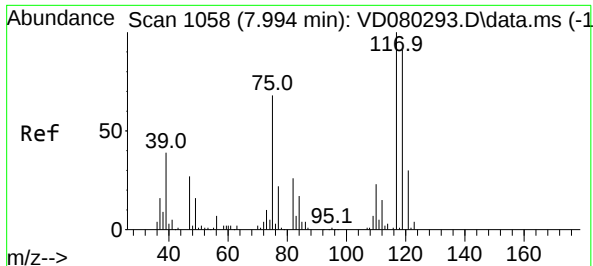
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:114 | Resp: | 63747    |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 20.2  | 0.0 38.8 |
| 88          | 16.5  | 0.0 30.6 |



#35  
Dibromofluoromethane  
Concen: 61.322 ug/l  
RT: 7.811 min Scan# 1027  
Delta R.T. 0.006 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

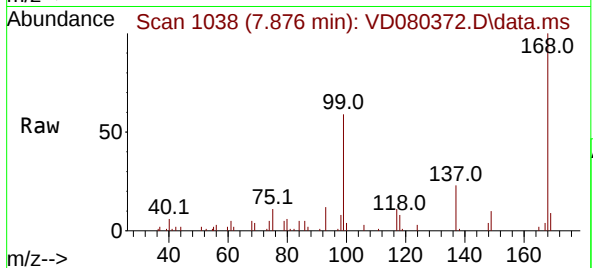
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 26200      |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 103.9 | 82.5 123.7 |
| 192         | 22.6  | 16.6 25.0  |



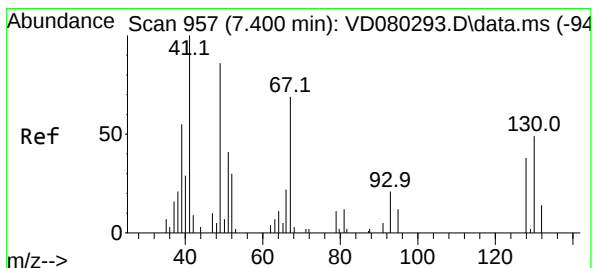
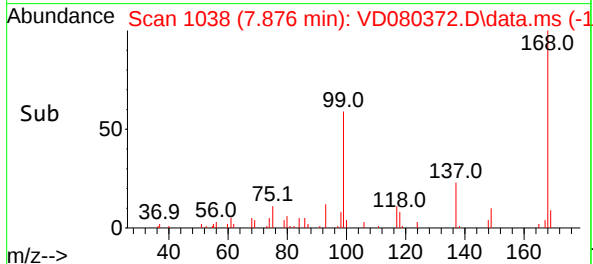
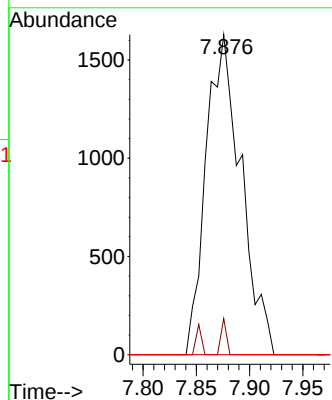


#38  
Carbon Tetrachloride  
Concen: 5.594 ug/l  
RT: 7.876 min Scan# 1058  
Delta R.T. -0.111 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

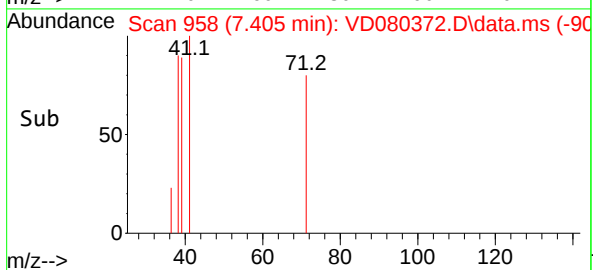
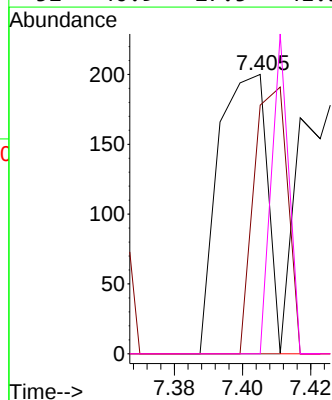
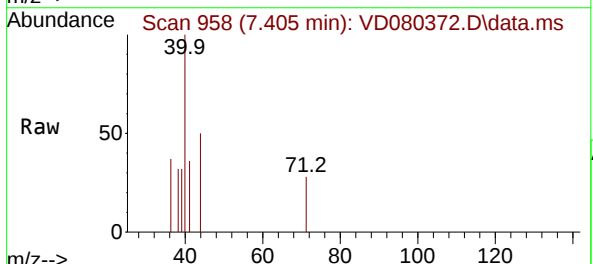


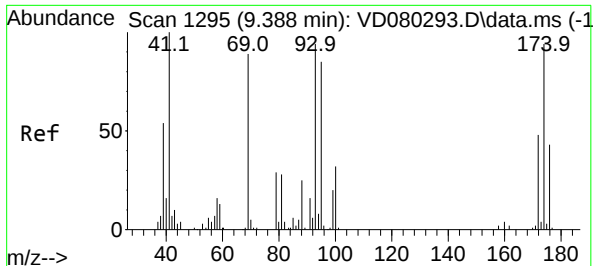
Tgt Ion: 117 Resp: 3725  
Ion Ratio Lower Upper  
117 100  
119 11.3 73.4 110.0#  
121 0.0 24.5 36.7#



#41  
Methacrylonitrile  
Concen: 1.072 ug/l  
RT: 7.405 min Scan# 958  
Delta R.T. 0.006 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

Tgt Ion: 41 Resp: 198  
Ion Ratio Lower Upper  
41 100  
39 65.7 47.8 71.8  
67 0.0 64.9 97.3#  
52 40.9 27.5 41.3





#49

1,4-Dioxane

Concen: 17.763 ug/l

RT: 9.329 min Scan# 1285

Delta R.T. -0.058 min

Lab File: VD080372.D

Acq: 16 May 2025 15:33

Instrument :

MSVOA\_D

ClientSampleId :

VOC

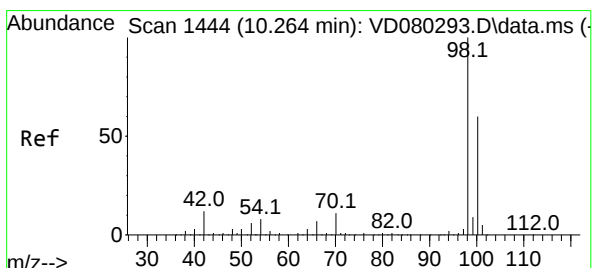
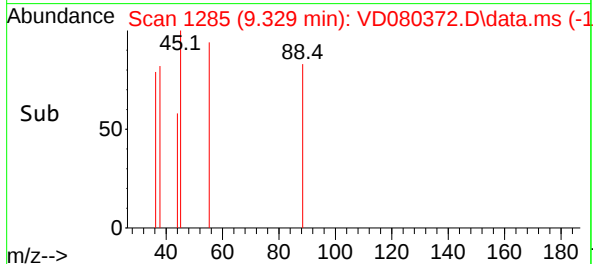
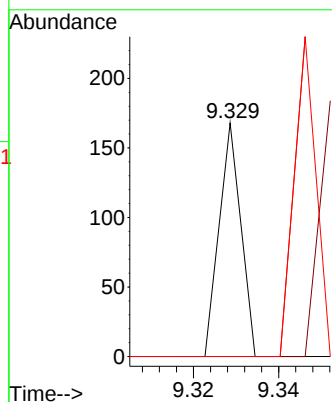
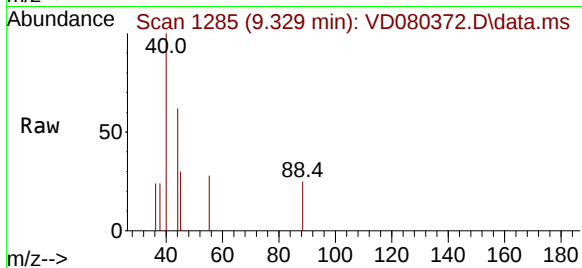
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 0.0 29.1 43.7#

58 0.0 59.9 89.9#



#50

Toluene-d8

Concen: 48.528 ug/l

RT: 10.270 min Scan# 1445

Delta R.T. 0.001 min

Lab File: VD080372.D

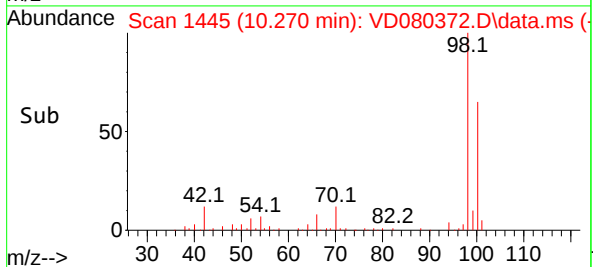
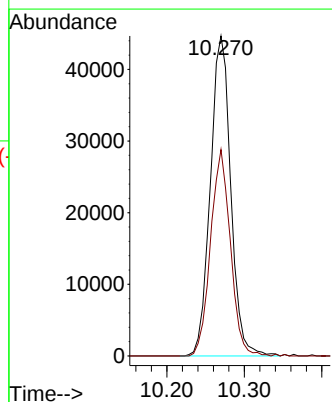
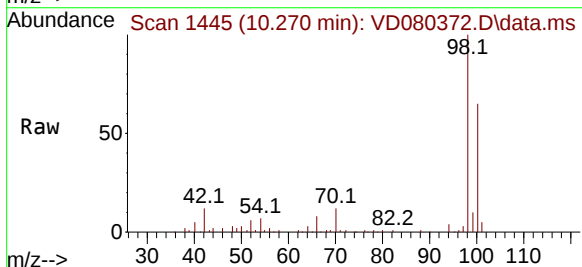
Acq: 16 May 2025 15:33

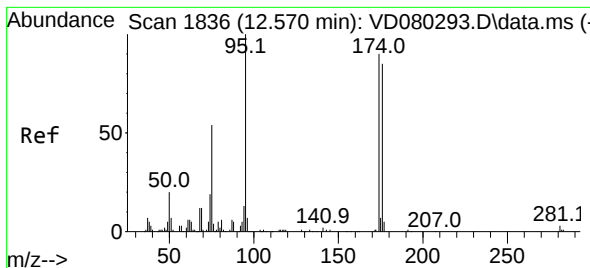
Tgt Ion: 98 Resp: 81694

Ion Ratio Lower Upper

98 100

100 62.6 50.2 75.4

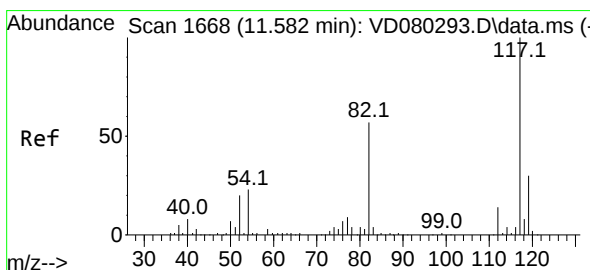
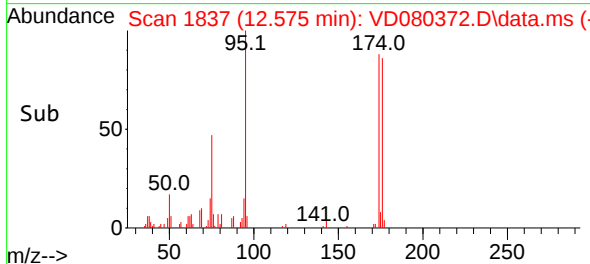
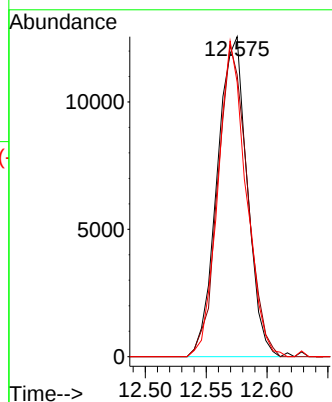
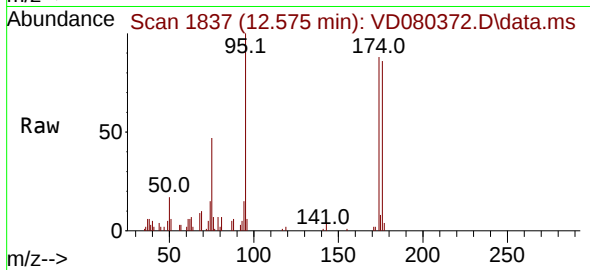




#62  
4-Bromofluorobenzene  
Concen: 39.702 ug/l  
RT: 12.575 min Scan# 1837  
Delta R.T. 0.006 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

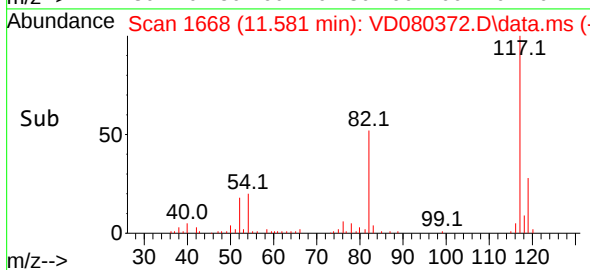
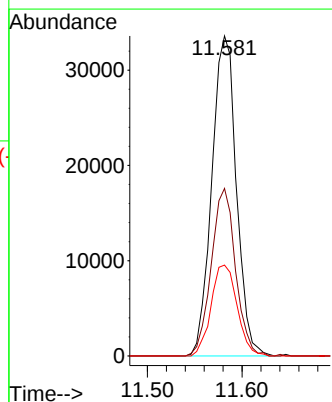
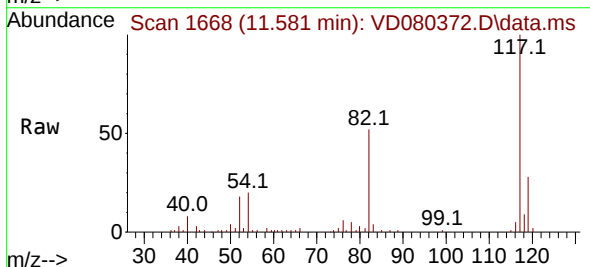
Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

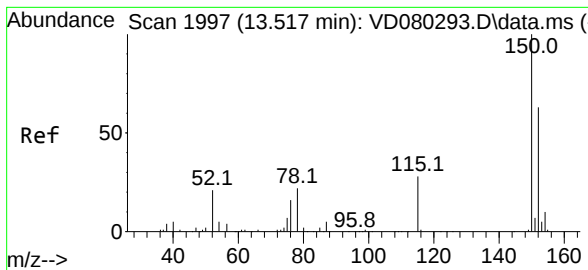
Tgt Ion: 95 Resp: 21452  
Ion Ratio Lower Upper  
95 100  
174 96.1 0.0 173.4  
176 93.2 0.0 166.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1668  
Delta R.T. 0.000 min  
Lab File: VD080372.D  
Acq: 16 May 2025 15:33

Tgt Ion: 117 Resp: 60599  
Ion Ratio Lower Upper  
117 100  
82 52.4 45.8 68.6  
119 28.4 26.2 39.2

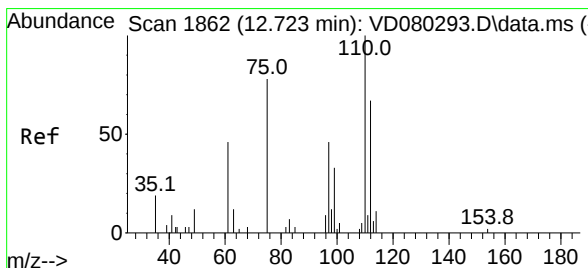
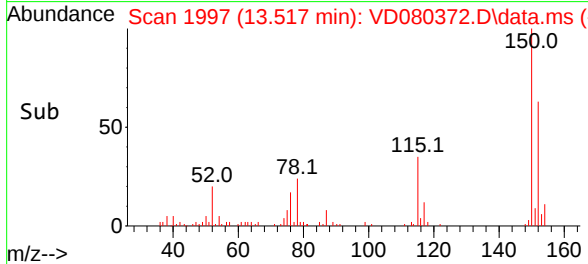
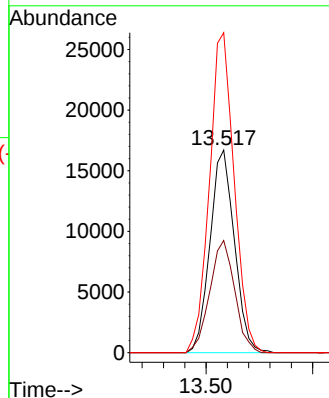
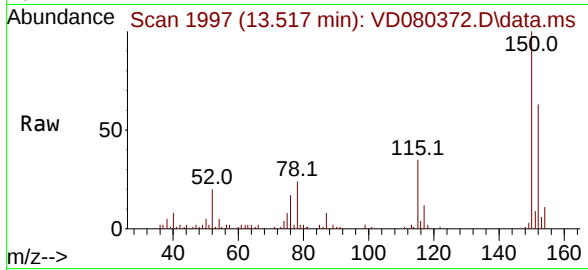




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.517 min Scan# 1997  
 Delta R.T. 0.001 min  
 Lab File: VD080372.D  
 Acq: 16 May 2025 15:33

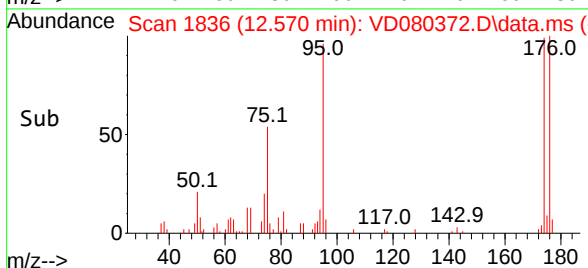
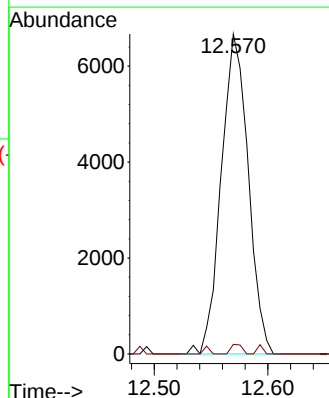
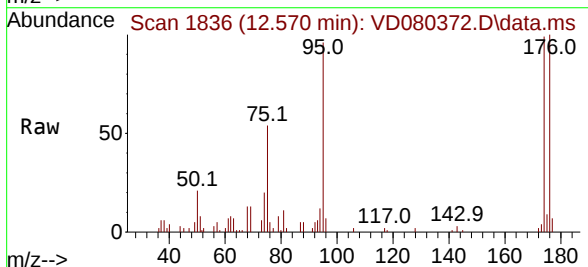
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VOC

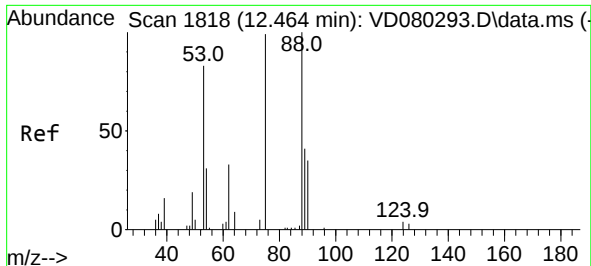
Tgt Ion:152 Resp: 26581  
 Ion Ratio Lower Upper  
 152 100  
 115 56.5 28.9 86.8  
 150 159.9 0.0 354.8



#76  
 1,2,3-Trichloropropane  
 Concen: 42.882 ug/l  
 RT: 12.570 min Scan# 1836  
 Delta R.T. -0.152 min  
 Lab File: VD080372.D  
 Acq: 16 May 2025 15:33

Tgt Ion: 75 Resp: 11001  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#

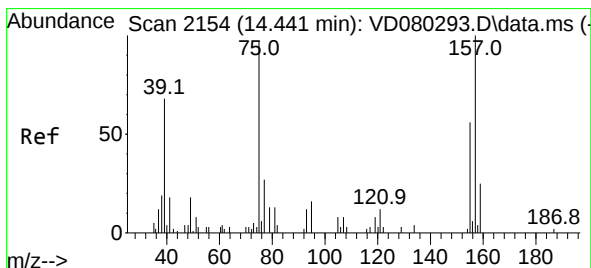
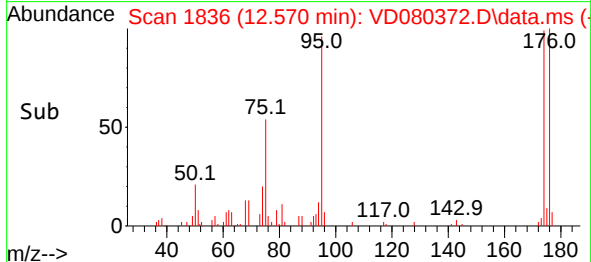
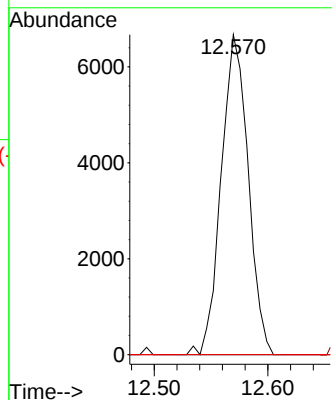
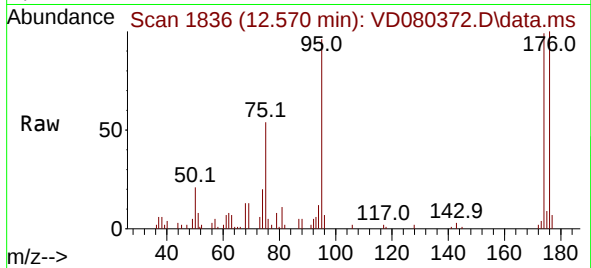




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 81.397 ug/l  
 RT: 12.570 min Scan# 11  
 Delta R.T. 0.101 min  
 Lab File: VD080372.D  
 Acq: 16 May 2025 15:33

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VOC

Tgt Ion: 75 Resp: 11001  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 68.7 103.1#  
 89 0.0 36.1 54.1#



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.125 ug/l  
 RT: 14.458 min Scan# 2157  
 Delta R.T. 0.018 min  
 Lab File: VD080372.D  
 Acq: 16 May 2025 15:33

Tgt Ion: 75 Resp: 68  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 40.6 122.0#  
 157 0.0 53.3 159.9#

