

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080824\  
 Data File : VD079674.D  
 Acq On : 08 Aug 2024 18:31  
 Operator : RP/MD  
 Sample : P3460-01  
 Misc : 5.02G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 09 01:11:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072924S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:50:47 2024  
 Response via : Initial Calibration

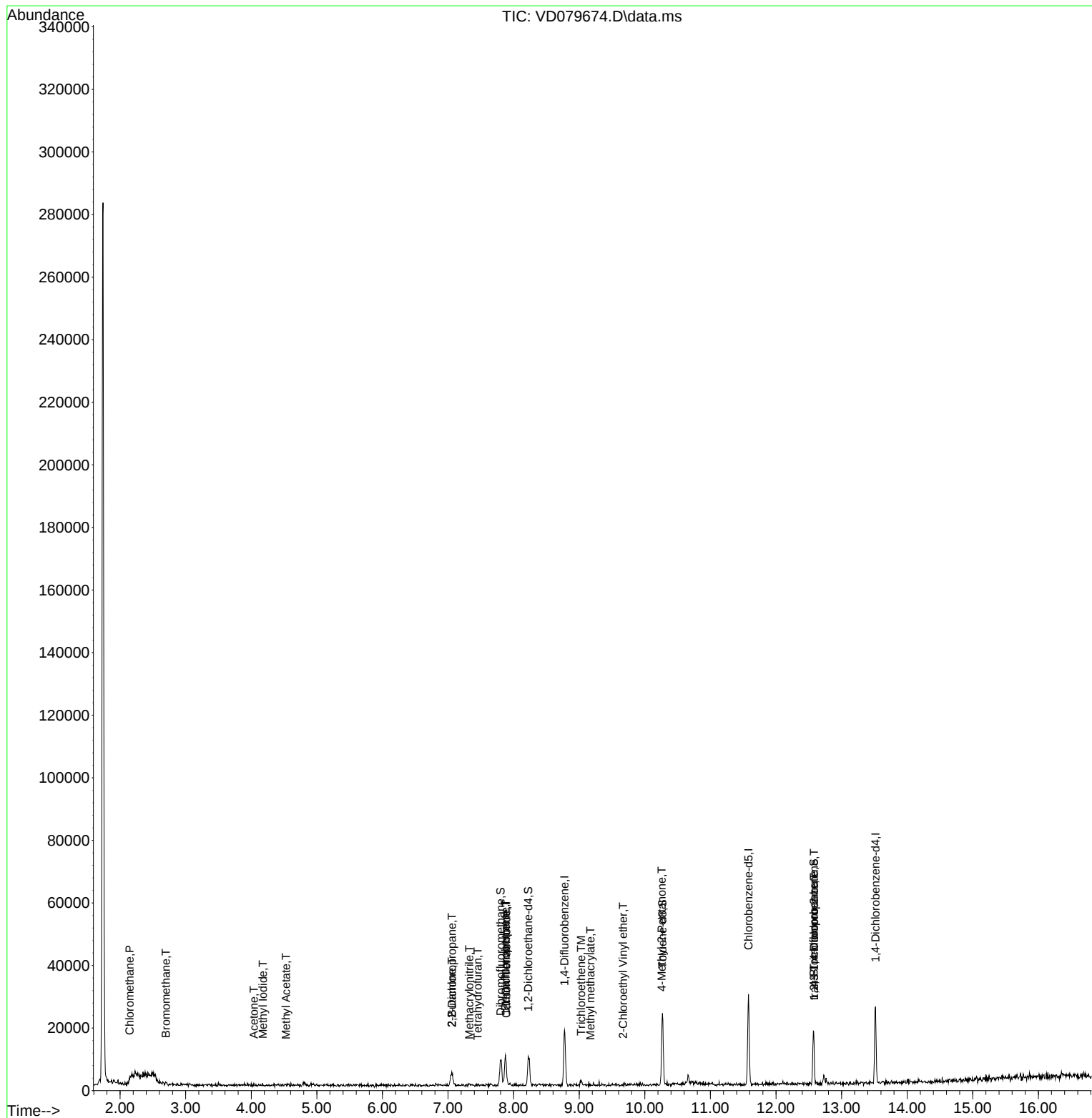
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 7536     | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775  | 114   | 16288    | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 16748    | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 6973     | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.222  | 65    | 7630     | 99.662    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 199.320%# |          |
| 35) Dibromofluoromethane      | 7.799  | 113   | 6263     | 56.810    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 113.620%  |          |
| 50) Toluene-d8                | 10.269 | 98    | 17055    | 39.837    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 79.680%   |          |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 5019     | 40.512    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 81.020%   |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 3) Chloromethane              | 2.146  | 50    | 321      | 2.950     | ug/l #      | 40       |
| 5) Bromomethane               | 2.699  | 94    | 584      | 4.769     | ug/l #      | 71       |
| 10) Methyl Iodide             | 4.175  | 142   | 162      | 2.324     | ug/l #      | 56       |
| 16) Acetone                   | 4.040  | 43    | 55       | 3.697     | ug/l #      | 37       |
| 18) Methyl Acetate            | 4.528  | 43    | 86       | 1.862     | ug/l #      | 40       |
| 20) Methylene Chloride        | 4.799  | 84    | 441      | Below Cal | #           | 62       |
| 25) 2-Butanone                | 7.058  | 43    | 60       | 2.844     | ug/l #      | 42       |
| 26) 2,2-Dichloropropane       | 7.058  | 77    | 221      | 1.704     | ug/l #      | 50       |
| 29) Tetrahydrofuran           | 7.452  | 42    | 108      | 8.262     | ug/l #      | 21       |
| 36) 1,1-Dichloropropene       | 7.881  | 75    | 586      | 3.894     | ug/l #      | 39       |
| 38) Carbon Tetrachloride      | 7.887  | 117   | 674      | 4.261     | ug/l #      | 13       |
| 41) Methacrylonitrile         | 7.322  | 41    | 54       | 1.591     | ug/l #      | 12       |
| 44) Trichloroethene           | 9.028  | 130   | 595      | 5.001     | ug/l        | 72       |
| 48) Methyl methacrylate       | 9.169  | 41    | 62       | 1.195     | ug/l #      | 2        |
| 51) 4-Methyl-2-Pentanone      | 10.257 | 43    | 68       | 1.149     | ug/l #      | 1        |
| 58) 2-Chloroethyl Vinyl ether | 9.669  | 63    | 58       | 1.250     | ug/l #      | 42       |
| 76) 1,2,3-Trichloropropane    | 12.581 | 75    | 2594     | 42.559    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.581 | 75    | 2594     | 81.171    | ug/l #      | 19       |
| -----                         |        |       |          |           |             |          |

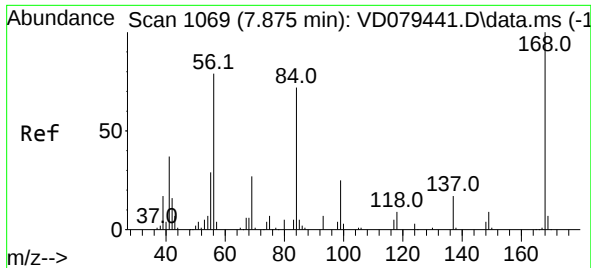
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:50:47 2024  
Response via : Initial Calibration

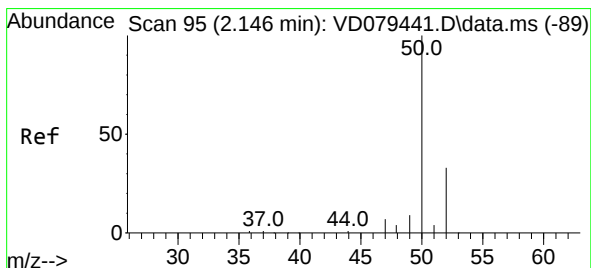
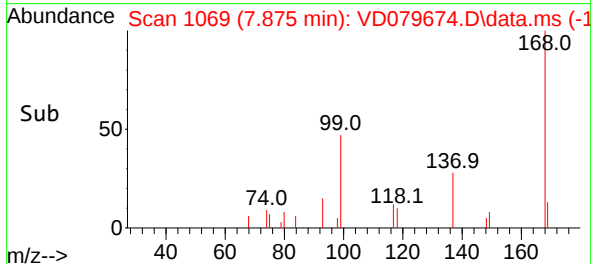
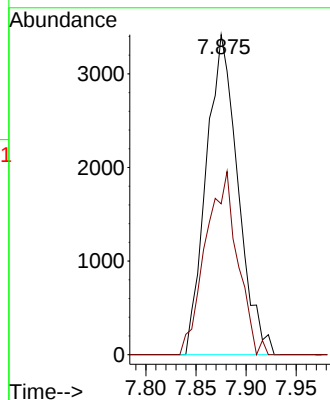
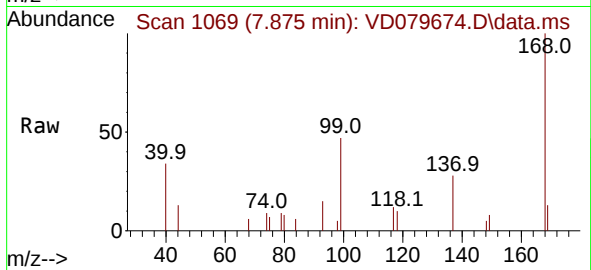




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

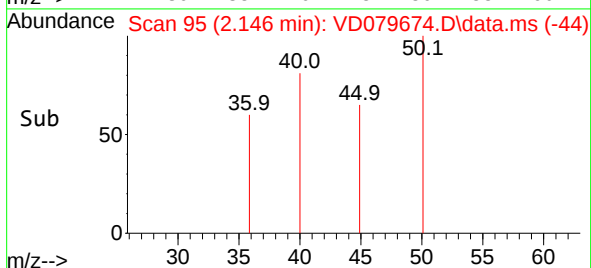
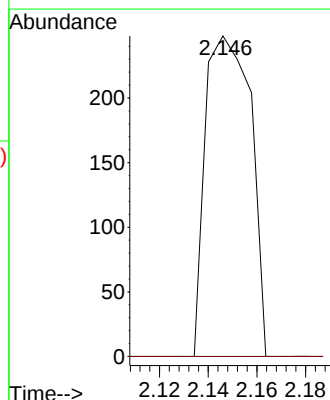
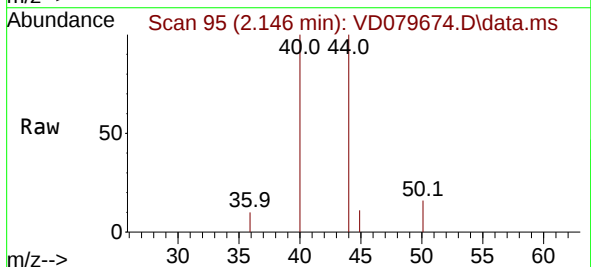
Instrument :  
MSVOA\_D  
ClientSampleId :

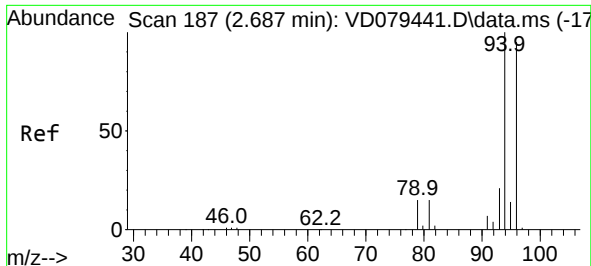
Tgt Ion:168 Resp: 7536  
Ion Ratio Lower Upper  
168 100  
99 47.2 41.1 61.7



#3  
Chloromethane  
Concen: 2.950 ug/l  
RT: 2.146 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

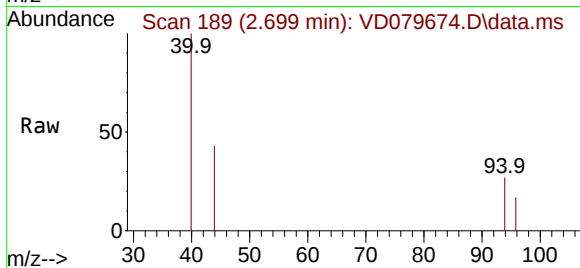
Tgt Ion: 50 Resp: 321  
Ion Ratio Lower Upper  
50 100  
52 0.0 28.2 42.2#



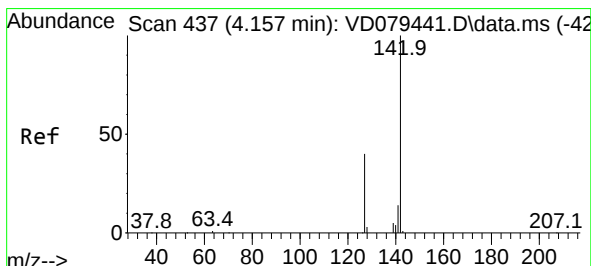
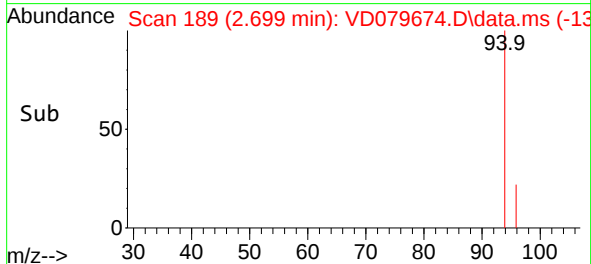
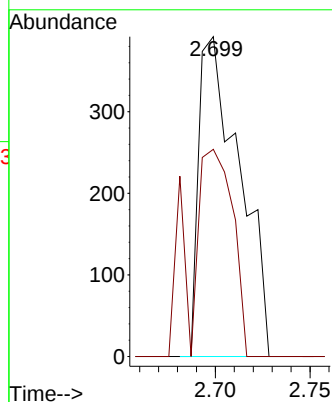


#5  
Bromomethane  
Concen: 4.769 ug/l  
RT: 2.699 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

Instrument :  
MSVOA\_D  
ClientSampleId :

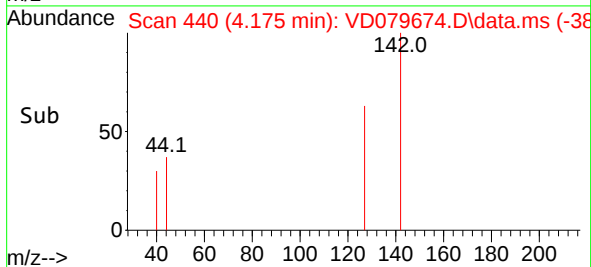
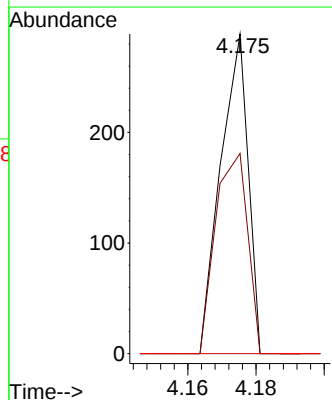
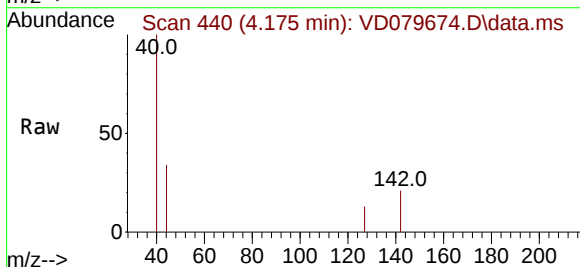


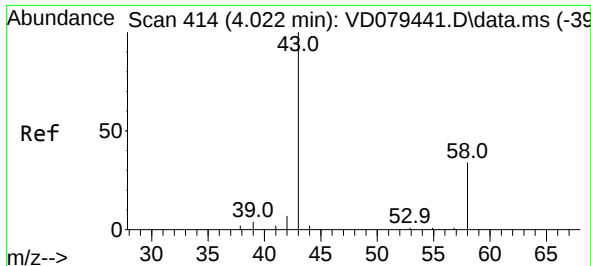
Tgt Ion: 94 Resp: 584  
Ion Ratio Lower Upper  
94 100  
96 67.3 76.9 115.3#



#10  
Methyl Iodide  
Concen: 2.324 ug/l  
RT: 4.175 min Scan# 440  
Delta R.T. 0.023 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

Tgt Ion:142 Resp: 162  
Ion Ratio Lower Upper  
142 100  
127 72.8 34.2 51.4#  
141 0.0 11.7 17.5#

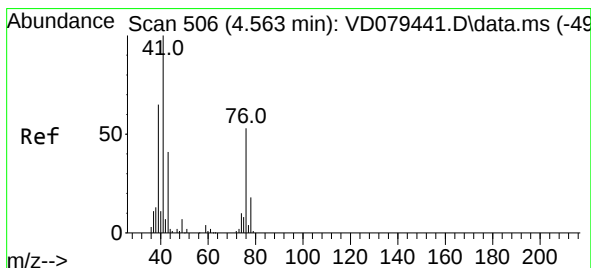
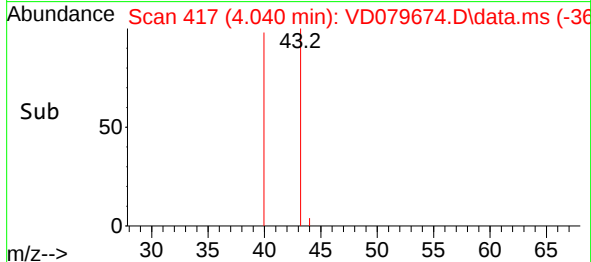
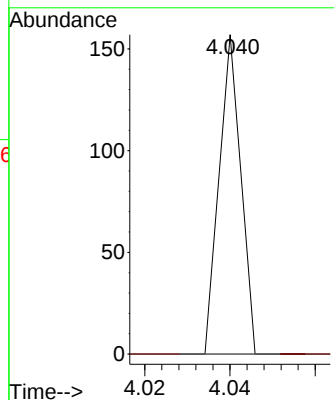
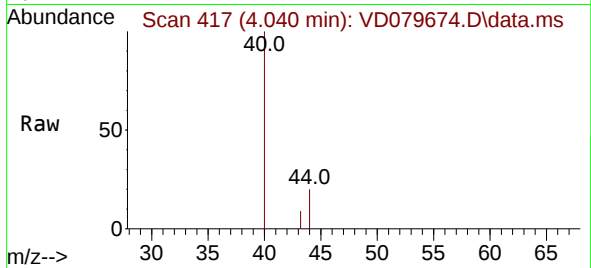




#16  
Acetone  
Concen: 3.697 ug/l  
RT: 4.040 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

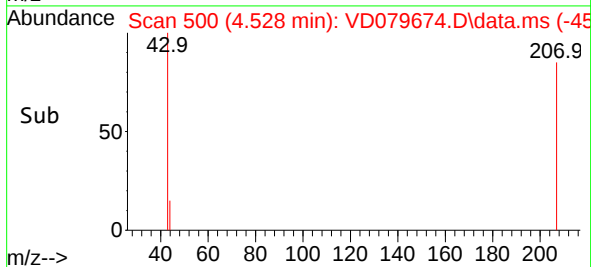
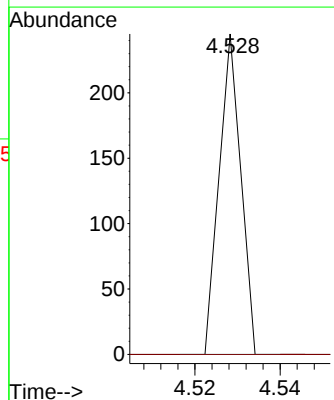
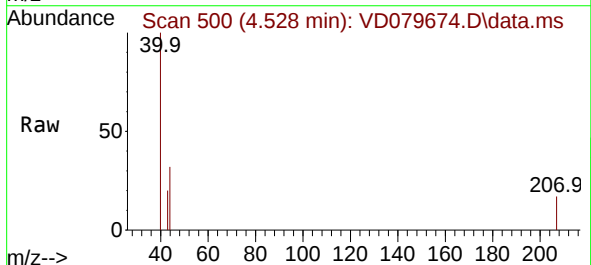
Instrument :  
MSVOA\_D  
ClientSampleId :

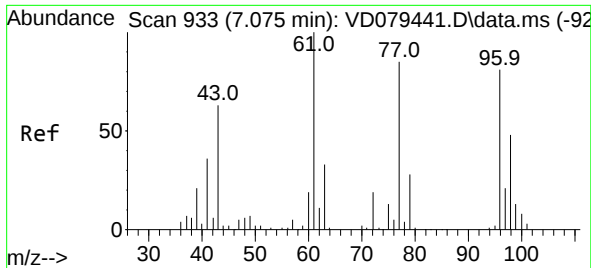
Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#



#18  
Methyl Acetate  
Concen: 1.862 ug/l  
RT: 4.528 min Scan# 500  
Delta R.T. -0.041 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

Tgt Ion: 43 Resp: 86  
Ion Ratio Lower Upper  
43 100  
74 0.0 28.1 42.1#

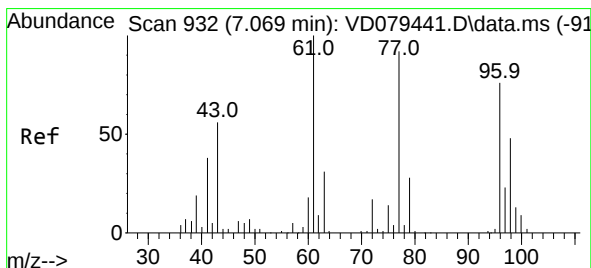
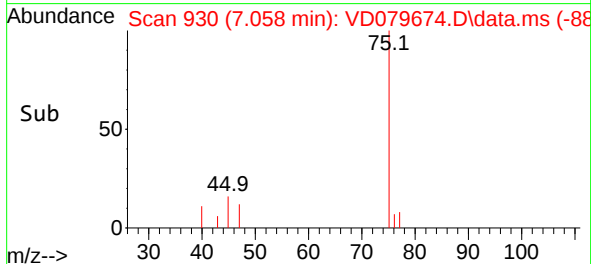
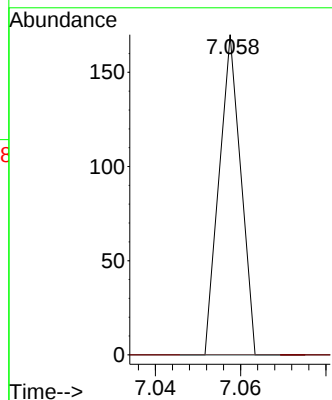
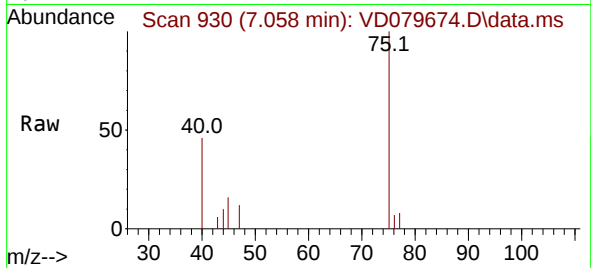




#25  
2-Butanone  
Concen: 2.844 ug/l  
RT: 7.058 min Scan# 91  
Delta R.T. -0.035 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

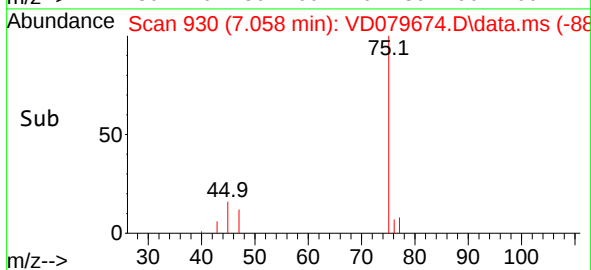
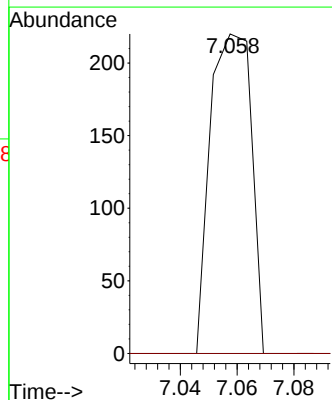
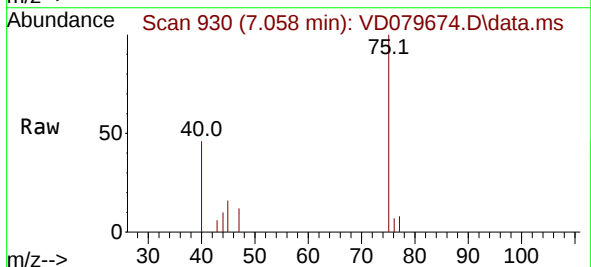
Instrument :  
MSVOA\_D  
ClientSampleId :

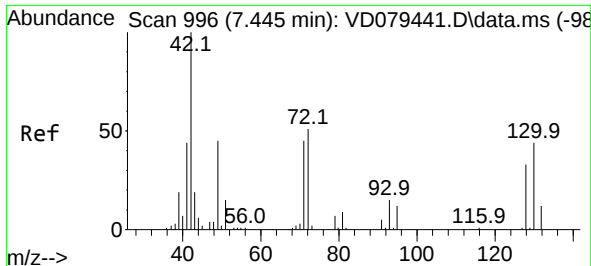
Tgt Ion: 43 Resp: 60  
Ion Ratio Lower Upper  
43 100  
72 0.0 26.4 39.6#



#26  
2,2-Dichloropropane  
Concen: 1.704 ug/l  
RT: 7.058 min Scan# 930  
Delta R.T. -0.024 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

Tgt Ion: 77 Resp: 221  
Ion Ratio Lower Upper  
77 100  
97 0.0 12.4 37.2#





#29

Tetrahydrofuran

Concen: 8.262 ug/l

RT: 7.452 min Scan# 996

Delta R.T. 0.006 min

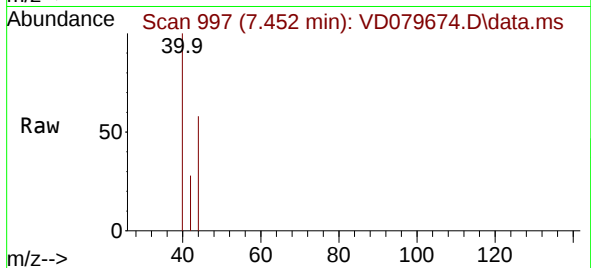
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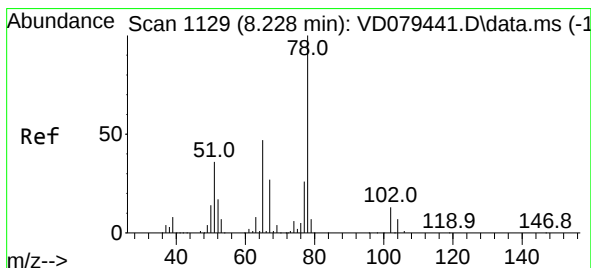
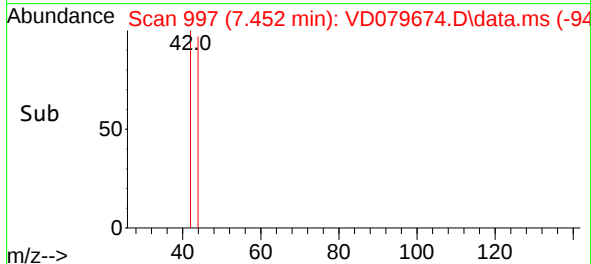
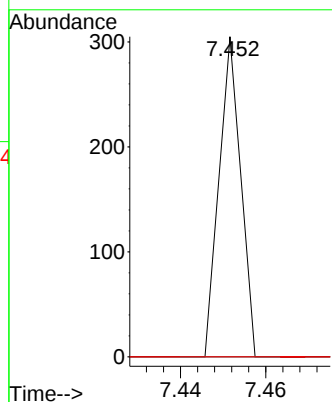
Instrument :

MSVOA\_D

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 108   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 49.4  | 74.0# |
| 71       | 0.0   | 45.0  | 67.6# |



#33

1,2-Dichloroethane-d4

Concen: 99.662 ug/l

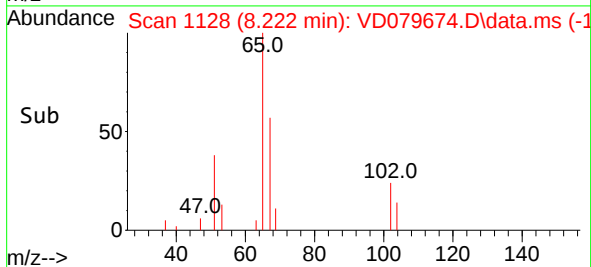
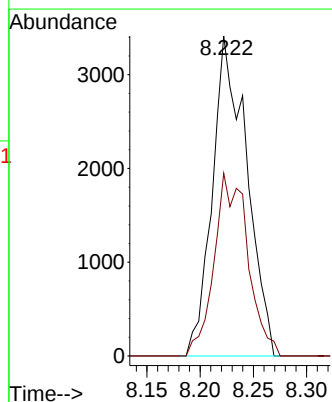
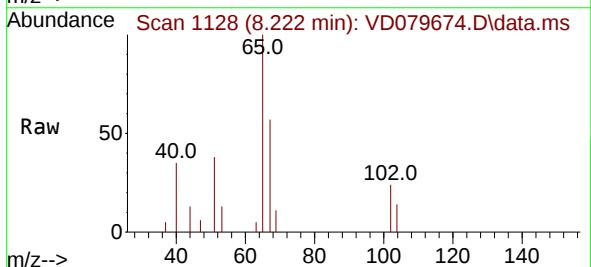
RT: 8.222 min Scan# 1128

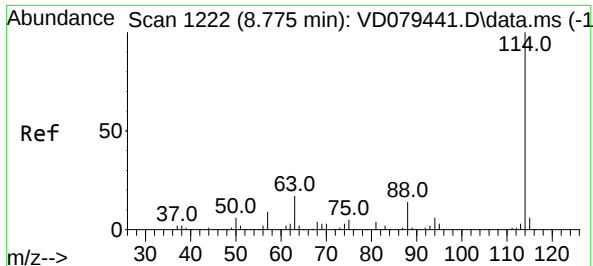
Delta R.T. -0.006 min

Lab File: VD079674.D

Acq: 08 Aug 2024 18:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 7630  |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 56.0  | 0.0   | 111.0 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD079674.D

Acq: 08 Aug 2024 18:31

Instrument :

MSVOA\_D

ClientSampleId :

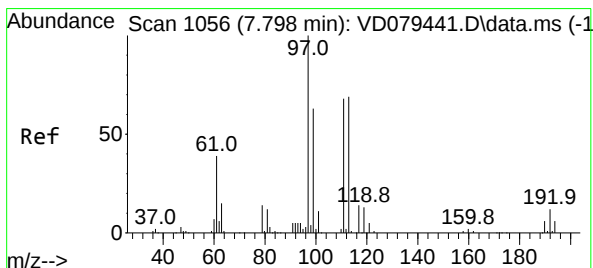
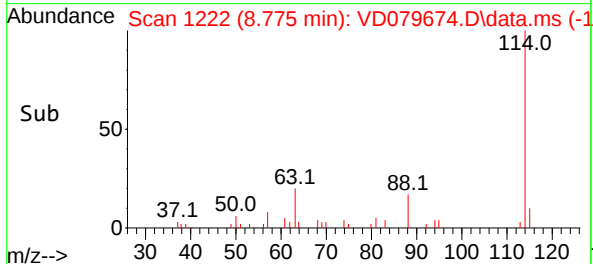
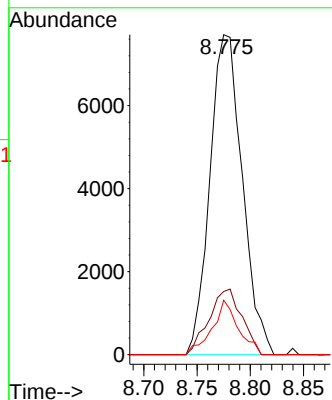
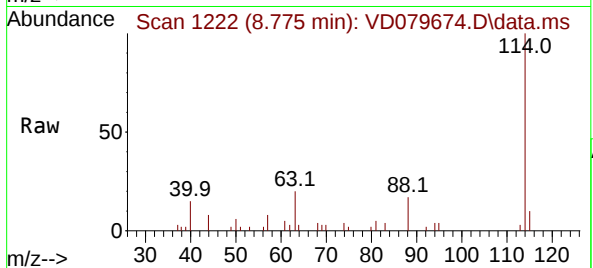
Tgt Ion:114 Resp: 16288

Ion Ratio Lower Upper

114 100

63 19.7 0.0 34.0

88 17.0 0.0 27.2



#35

Dibromofluoromethane

Concen: 56.810 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD079674.D

Acq: 08 Aug 2024 18:31

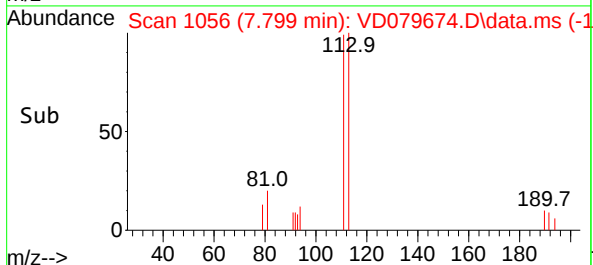
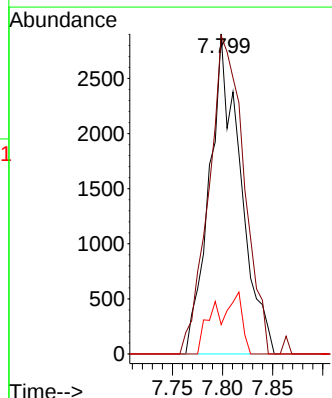
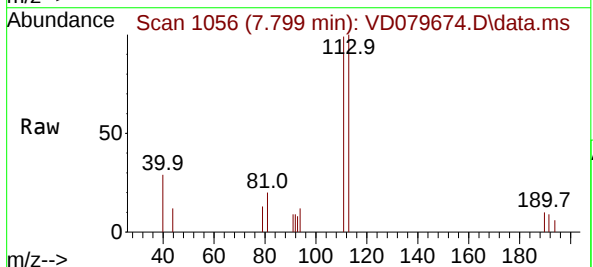
Tgt Ion:113 Resp: 6263

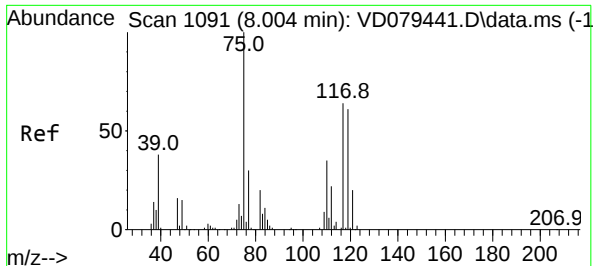
Ion Ratio Lower Upper

113 100

111 112.4 84.0 126.0

192 7.6 15.4 23.0#





#36

1,1-Dichloropropene

Concen: 3.894 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.129 min

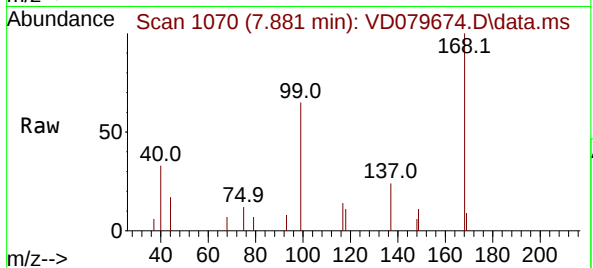
Lab File: VD079674.D

Acq: 08 Aug 2024 18:31

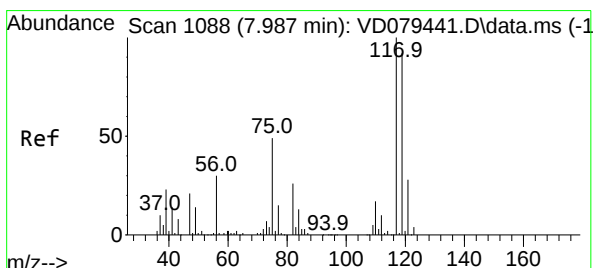
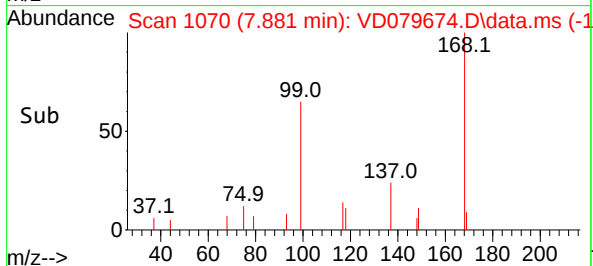
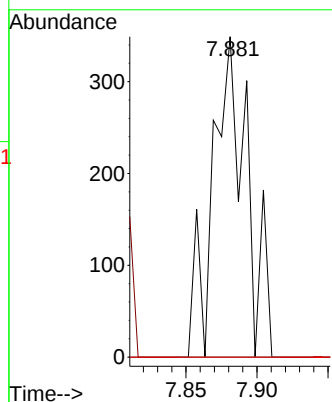
Instrument :

MSVOA\_D

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 586      |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 0.0 19.6 58.7# |
| 77          | 0.0 26.1 39.1# |



#38

Carbon Tetrachloride

Concen: 4.261 ug/l

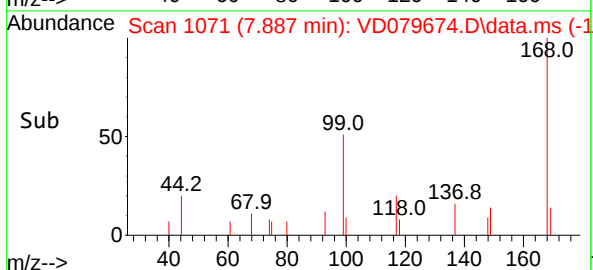
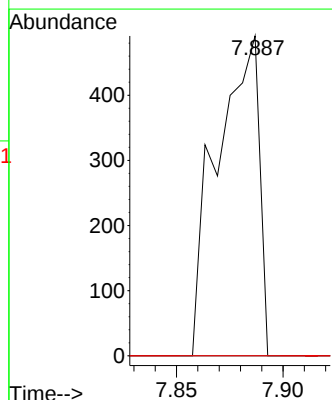
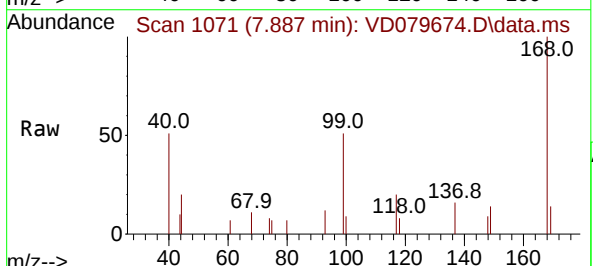
RT: 7.887 min Scan# 1071

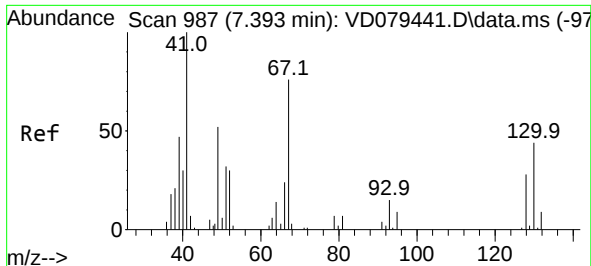
Delta R.T. -0.100 min

Lab File: VD079674.D

Acq: 08 Aug 2024 18:31

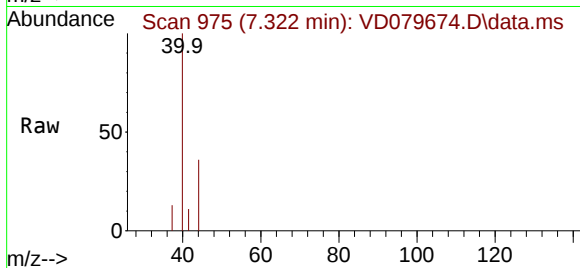
|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 674       |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 0.0 75.4 113.0# |
| 121          | 0.0 25.0 37.4#  |



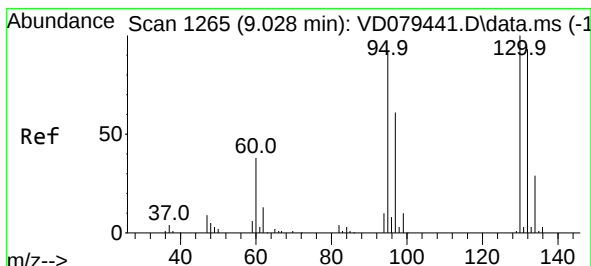
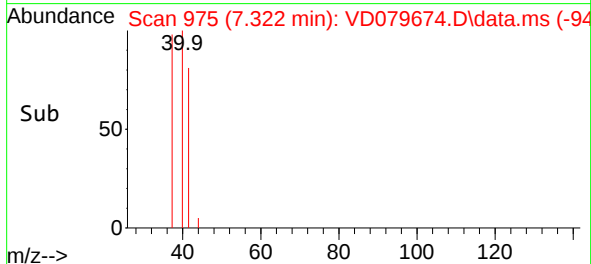
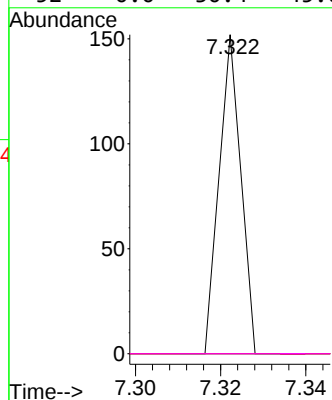


#41  
Methacrylonitrile  
Concen: 1.591 ug/l  
RT: 7.322 min Scan# 91  
Delta R.T. -0.094 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

Instrument :  
MSVOA\_D  
ClientSampleId :

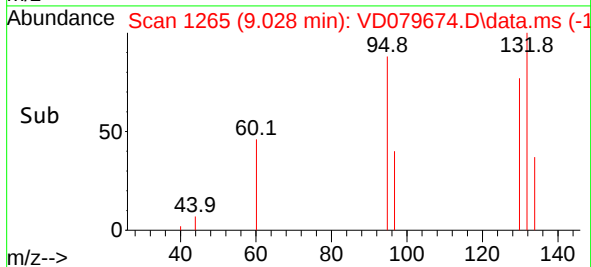
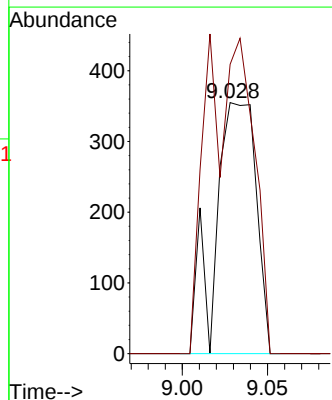
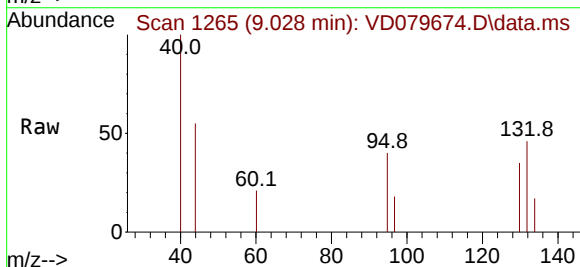


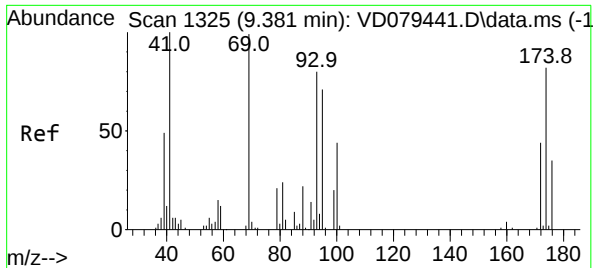
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 54    |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 0.0      | 41.4 62.0#  |
| 67 0.0      | 85.8 128.6# |
| 52 0.0      | 30.4 45.6#  |



#44  
Trichloroethene  
Concen: 5.001 ug/l  
RT: 9.028 min Scan# 1265  
Delta R.T. -0.000 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:130 | Resp: | 595   |       |
| Ion         | Ratio | Lower | Upper |
| 130         | 100   |       |       |
| 95          | 115.2 | 0.0   | 177.8 |

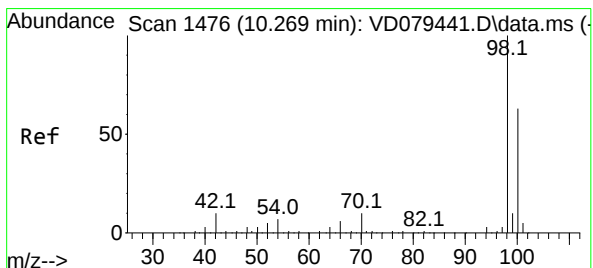
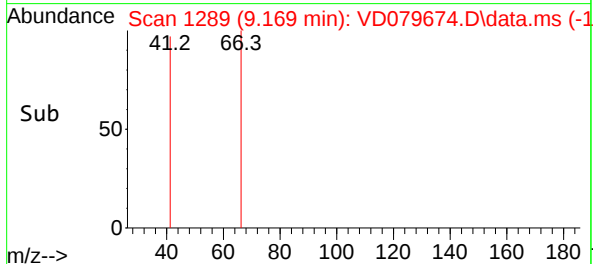
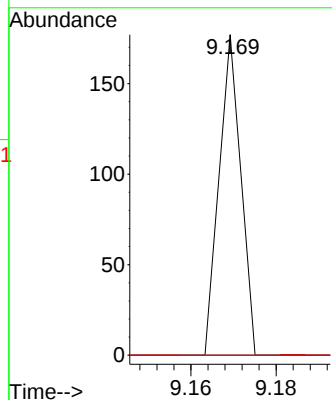
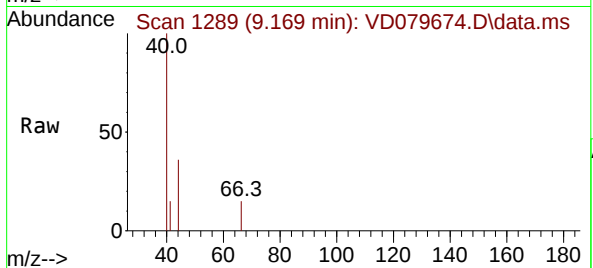




#48  
Methyl methacrylate  
Concen: 1.195 ug/l  
RT: 9.169 min Scan# 1289  
Delta R.T. -0.212 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

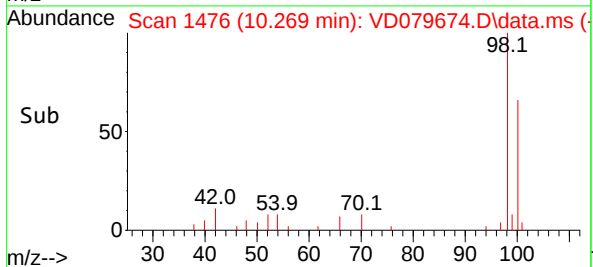
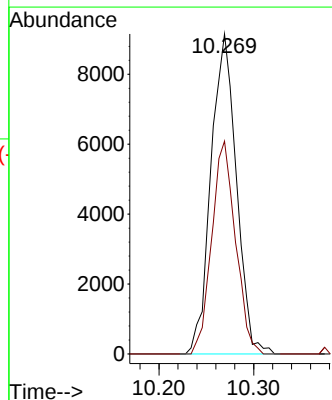
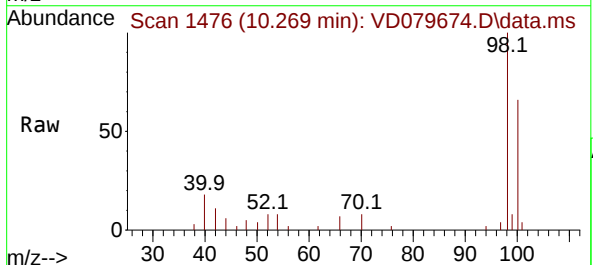
Instrument :  
MSVOA\_D  
ClientSampleId :

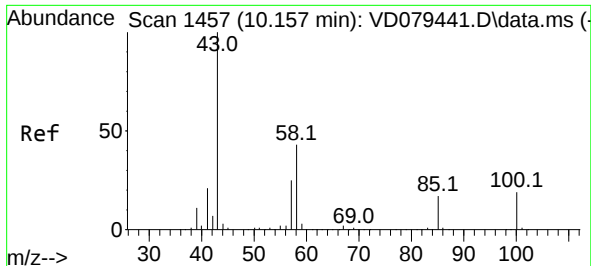
Tgt Ion: 41 Resp: 62  
Ion Ratio Lower Upper  
41 100  
69 0.0 96.7 145.1#  
39 0.0 43.8 65.6#



#50  
Toluene-d8  
Concen: 39.837 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.006 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

Tgt Ion: 98 Resp: 17055  
Ion Ratio Lower Upper  
98 100  
100 62.3 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 1.149 ug/l

RT: 10.257 min Scan# 1457

Delta R.T. 0.100 min

Lab File: VD079674.D

Acq: 08 Aug 2024 18:31

Instrument :

MSVOA\_D

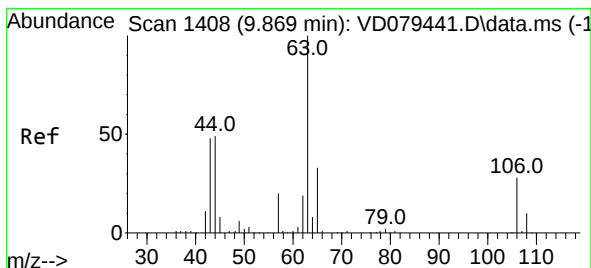
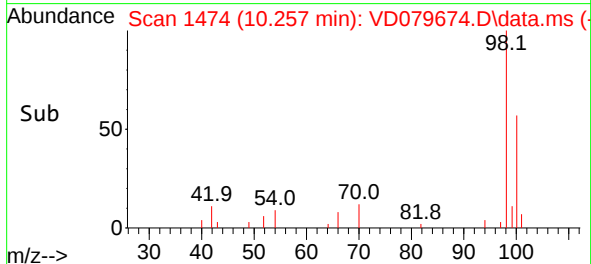
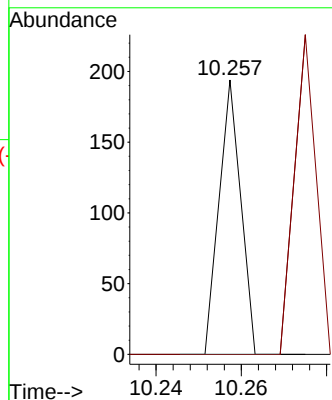
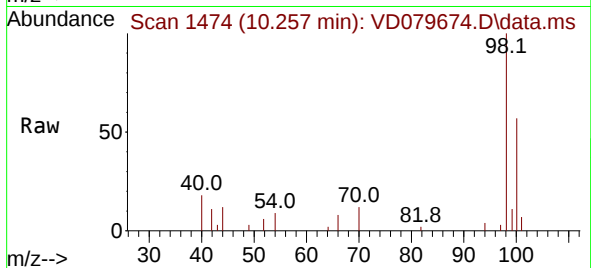
ClientSampleId :

Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

58 117.6 36.6 55.0#



#58

2-Chloroethyl Vinyl ether

Concen: 1.250 ug/l

RT: 9.669 min Scan# 1374

Delta R.T. -0.200 min

Lab File: VD079674.D

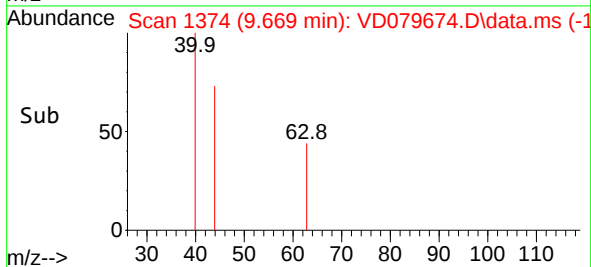
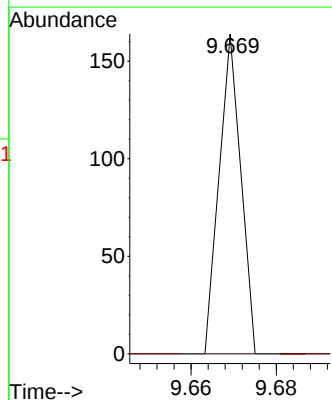
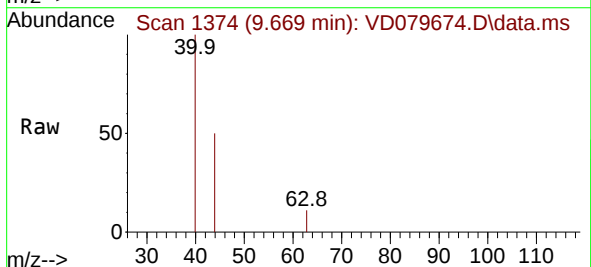
Acq: 08 Aug 2024 18:31

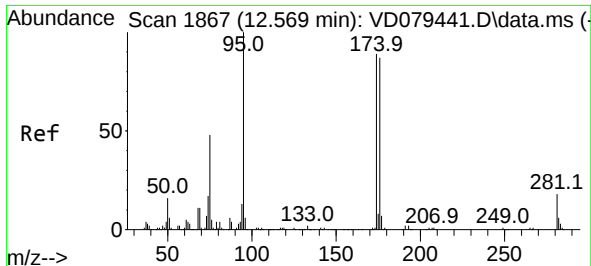
Tgt Ion: 63 Resp: 58

Ion Ratio Lower Upper

63 100

106 0.0 26.4 39.6#

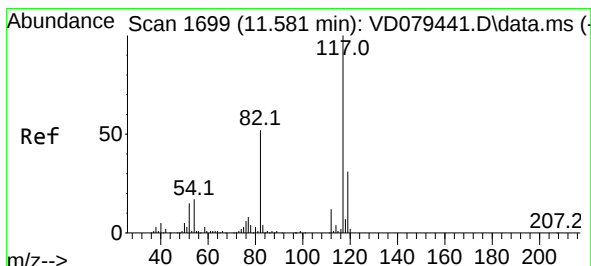
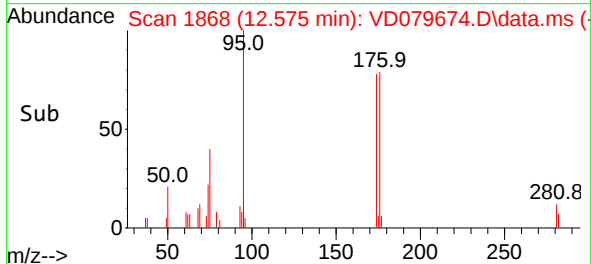
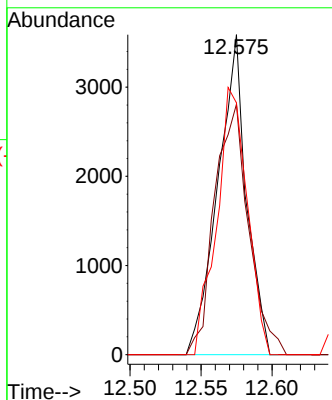
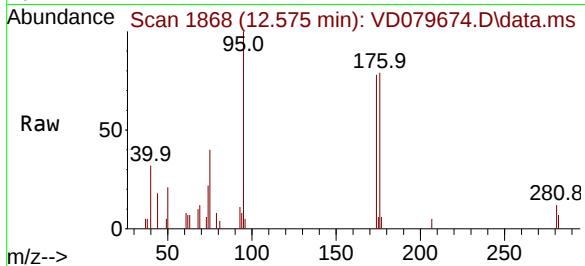




#62  
4-Bromofluorobenzene  
Concen: 40.512 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.006 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

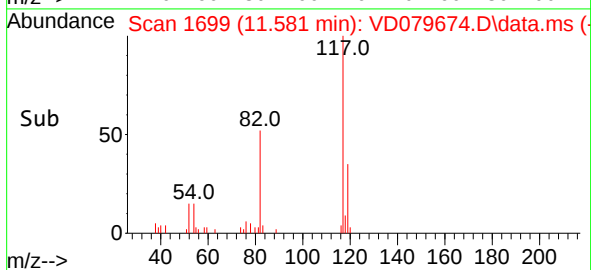
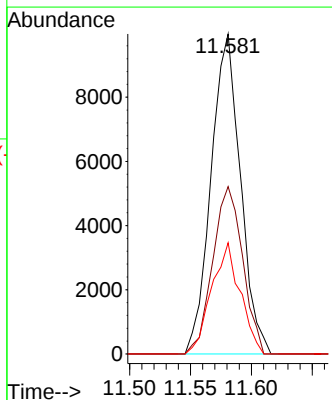
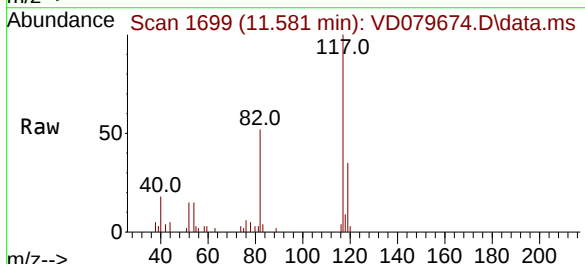
Instrument :  
MSVOA\_D  
ClientSampleId :

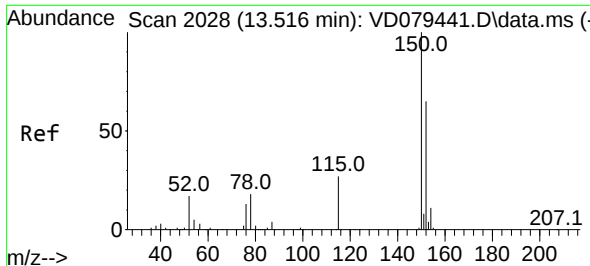
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 5019  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 93.4  | 0.0   | 195.4 |
| 176      | 89.7  | 0.0   | 192.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

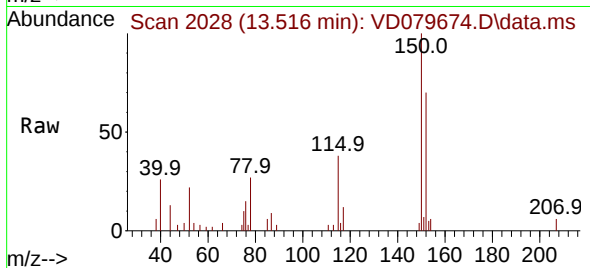
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 16748 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 52.3  | 39.8  | 59.6  |
| 119      | 34.7  | 25.7  | 38.5  |



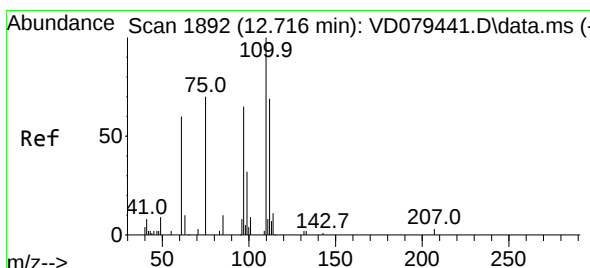
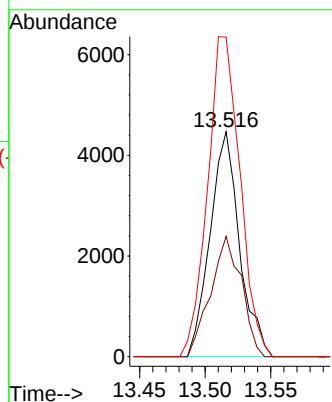
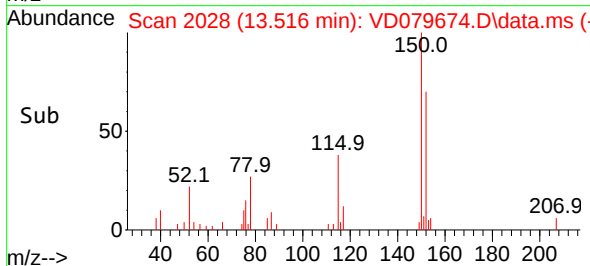


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

Instrument :  
MSVOA\_D  
ClientSampleId :

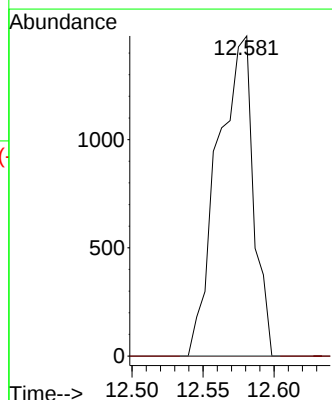
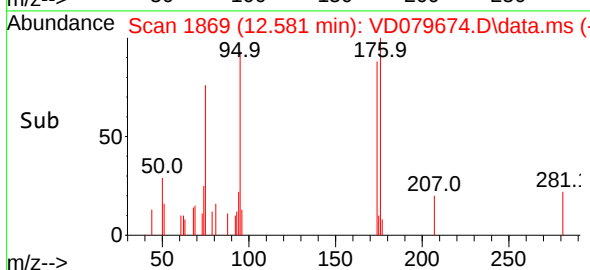
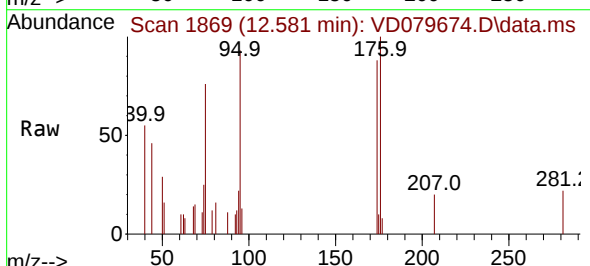


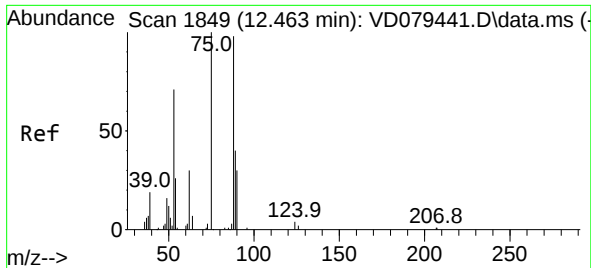
Tgt Ion:152 Resp: 6973  
Ion Ratio Lower Upper  
152 100  
115 56.0 26.5 79.5  
150 157.1 0.0 341.6



#76  
1,2,3-Trichloropropane  
Concen: 42.559 ug/l  
RT: 12.581 min Scan# 1869  
Delta R.T. -0.141 min  
Lab File: VD079674.D  
Acq: 08 Aug 2024 18:31

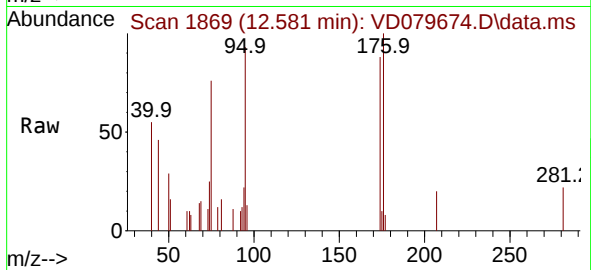
Tgt Ion: 75 Resp: 2594  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 81.171 ug/l  
 RT: 12.581 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VD079674.D  
 Acq: 08 Aug 2024 18:31

Instrument :  
 MSVOA\_D  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 2594  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.0   | 61.4  | 92.2# |
| 89       | 0.0   | 35.4  | 53.0# |

