

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021423\  
 Data File : VD075334.D  
 Acq On : 14 Feb 2023 10:59  
 Operator : KP/SY  
 Sample : VD0214SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0214SBL01

Quant Time: Feb 15 03:28:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 04:26:58 2023  
 Response via : Initial Calibration

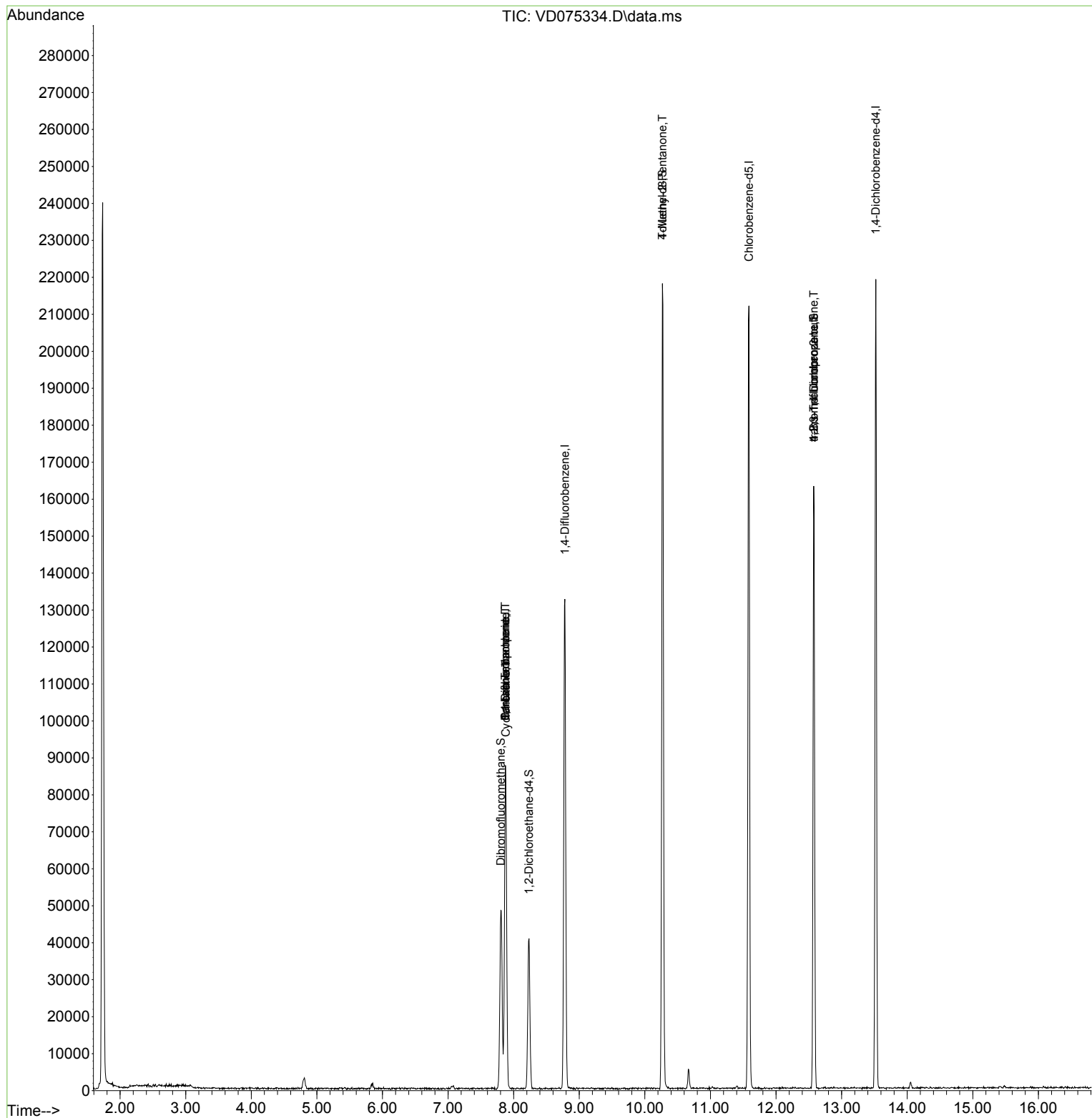
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 64957    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 113312   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.587 | 117   | 115620   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 55148    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 32365    | 42.492    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 84.980%  |
| 35) Dibromofluoromethane      | 7.804  | 113   | 36222    | 45.589    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 91.180%  |
| 50) Toluene-d8                | 10.269 | 98    | 142593   | 47.323    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 94.640%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 49338    | 49.658    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 99.320%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.146  | 50    | 216      | Below Cal | #      | 41       |
| 20) Methylene Chloride        | 4.810  | 84    | 1956     | Below Cal | #      | 88       |
| 31) Cyclohexane               | 7.881  | 56    | 1933     | 1.429     | ug/l # | 64       |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 5616     | 4.537     | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 7050     | 6.147     | ug/l # | 19       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43    | 786      | 1.507     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 27405    | 43.750    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 27405    | 138.157   | ug/l # | 14       |
| -----                         |        |       |          |           |        |          |

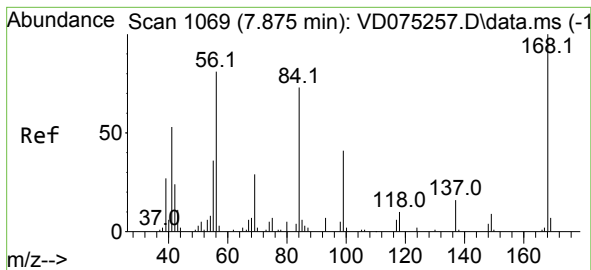
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD075334.D

Acq: 14 Feb 2023 10:59

Instrument :

MSVOA\_D

ClientSampleId :

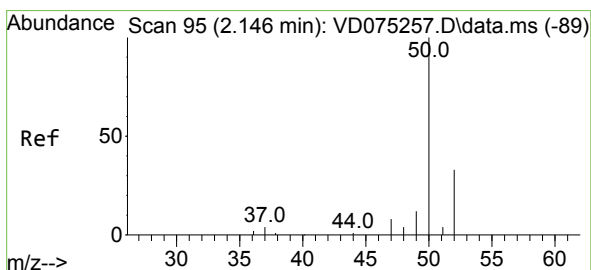
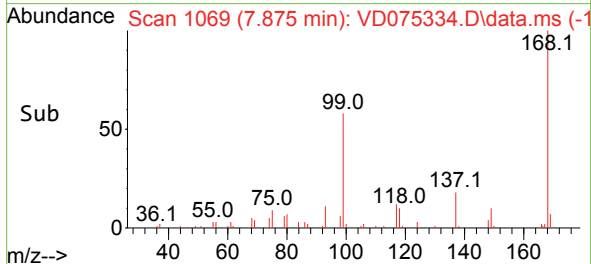
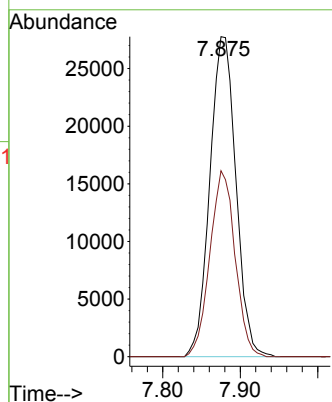
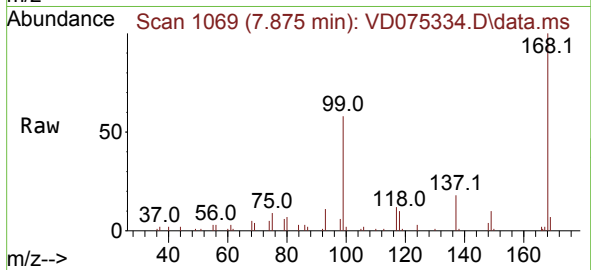
VD0214SBL01

Tgt Ion:168 Resp: 64957

Ion Ratio Lower Upper

168 100

99 58.1 45.2 67.8



#3

Chloromethane

Concen: Below Cal

RT: 2.146 min Scan# 95

Delta R.T. -0.000 min

Lab File: VD075334.D

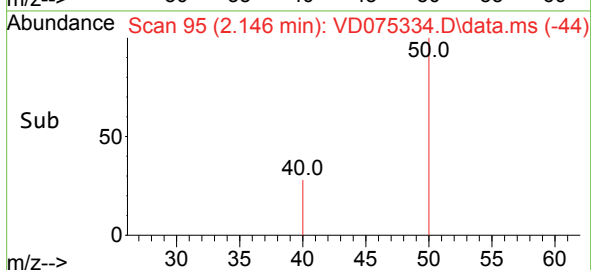
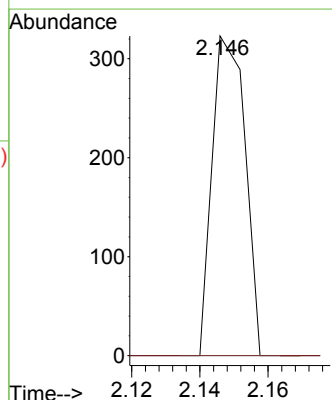
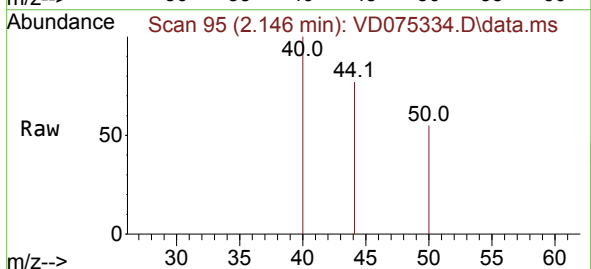
Acq: 14 Feb 2023 10:59

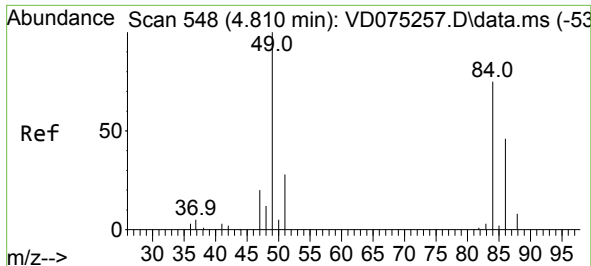
Tgt Ion: 50 Resp: 216

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#

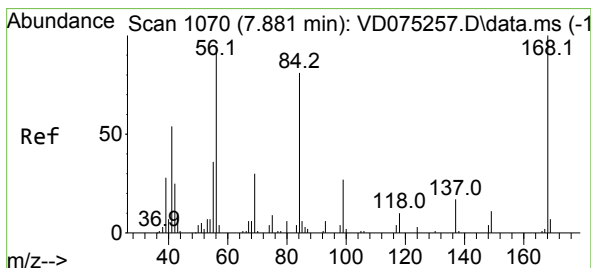
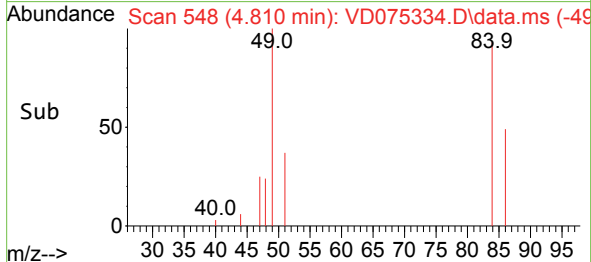
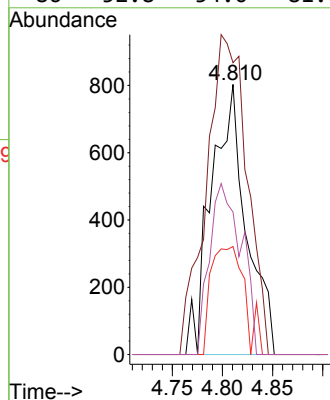
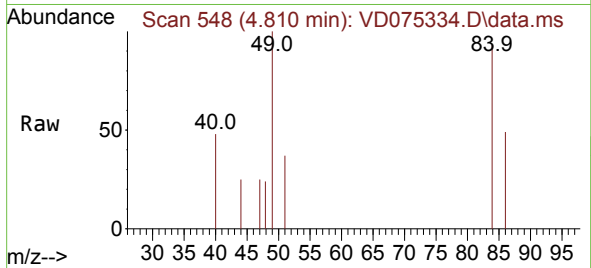




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.810 min Scan# 54  
Delta R.T. 0.000 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

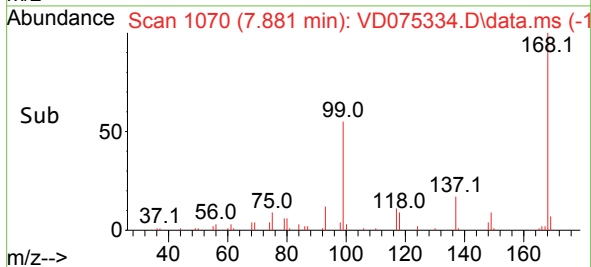
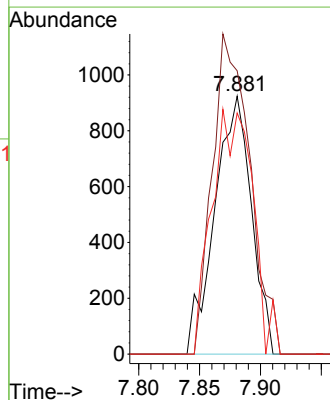
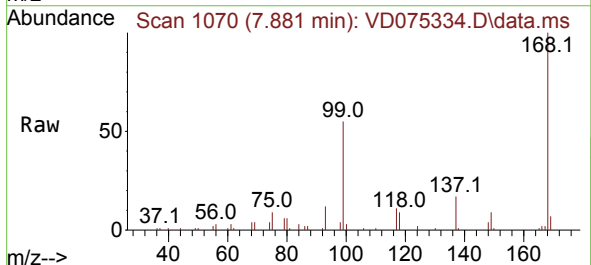
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0214SBL01

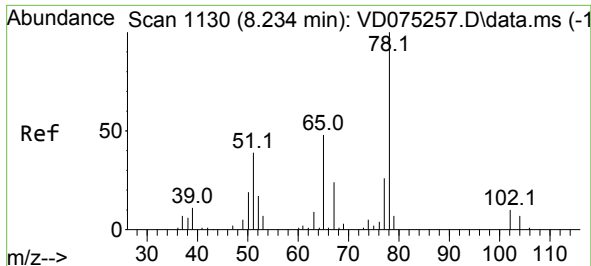
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1956  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 108.1 | 97.0  | 145.6 |
| 51       | 40.0  | 30.9  | 46.3  |
| 86       | 52.8  | 54.0  | 81.0# |



#31  
Cyclohexane  
Concen: 1.429 ug/l  
RT: 7.881 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 1933  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 109.8 | 26.6  | 40.0# |
| 84       | 93.5  | 74.1  | 111.1 |





#33

1,2-Dichloroethane-d4

Concen: 42.492 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VD075334.D

Acq: 14 Feb 2023 10:59

Instrument :

MSVOA\_D

ClientSampleId :

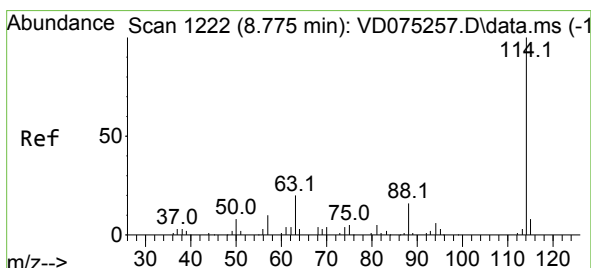
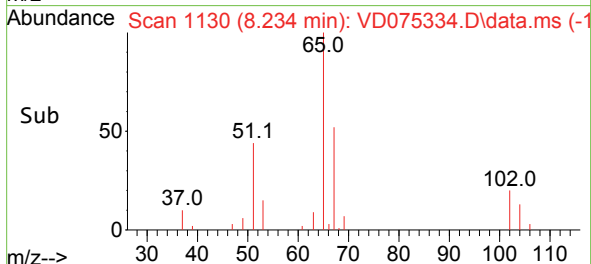
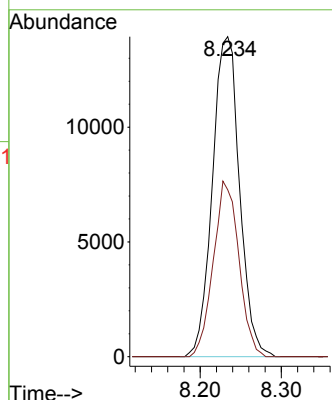
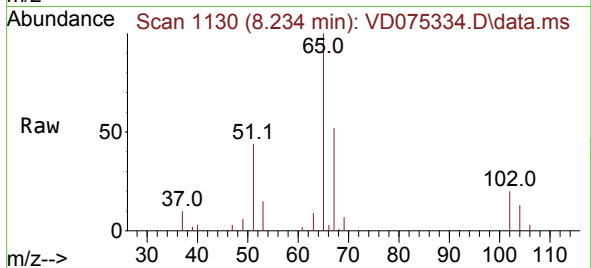
VD0214SBL01

Tgt Ion: 65 Resp: 32365

Ion Ratio Lower Upper

65 100

67 51.7 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD075334.D

Acq: 14 Feb 2023 10:59

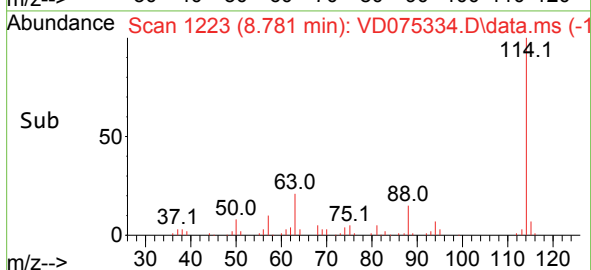
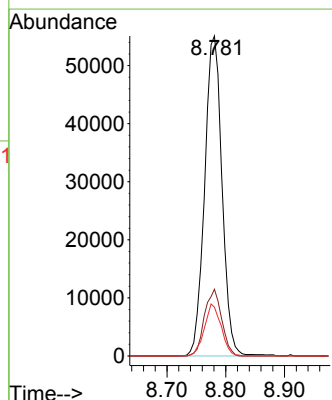
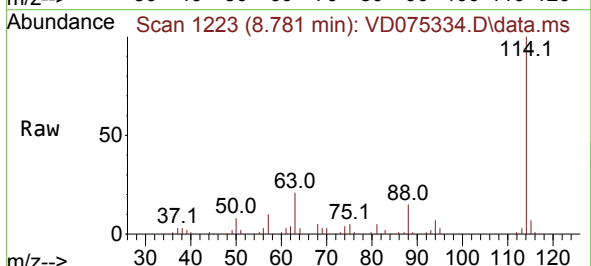
Tgt Ion: 114 Resp: 113312

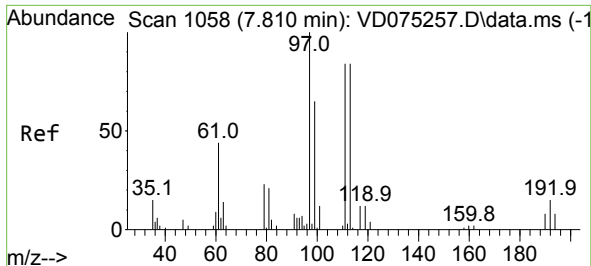
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.2

88 15.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 45.589 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD075334.D

Acq: 14 Feb 2023 10:59

Instrument :

MSVOA\_D

ClientSampleId :

VD0214SBL01

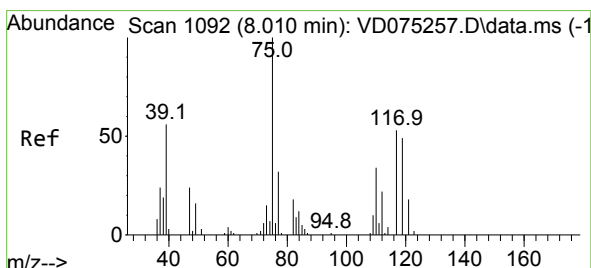
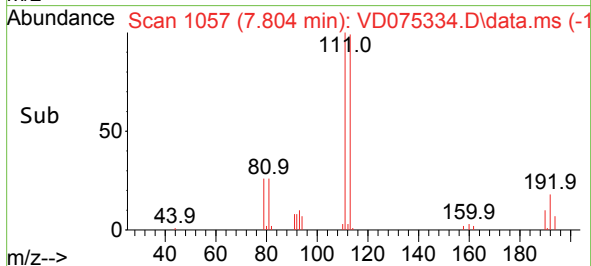
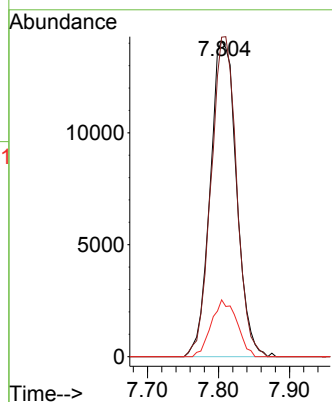
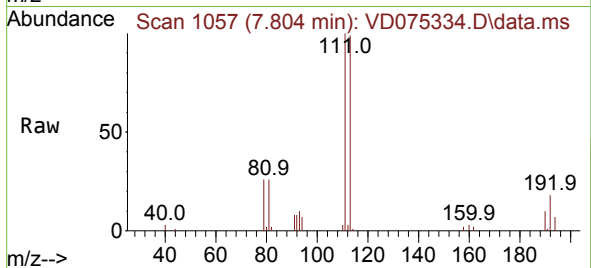
Tgt Ion:113 Resp: 36222

Ion Ratio Lower Upper

113 100

111 98.2 80.1 120.1

192 17.5 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.537 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD075334.D

Acq: 14 Feb 2023 10:59

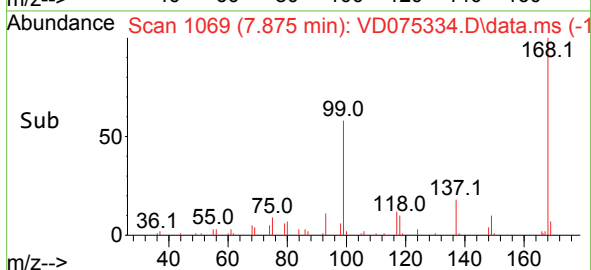
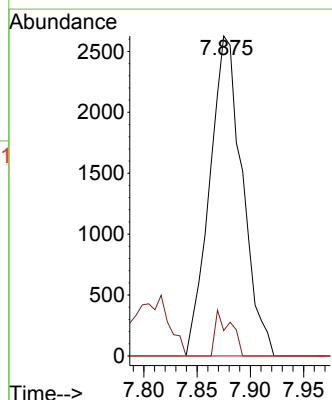
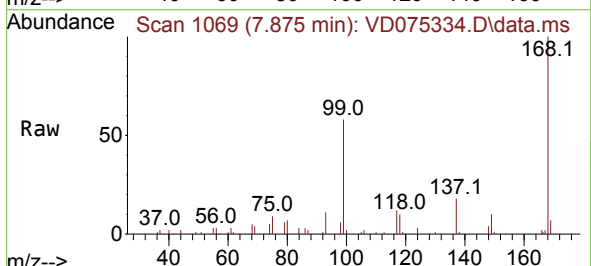
Tgt Ion: 75 Resp: 5616

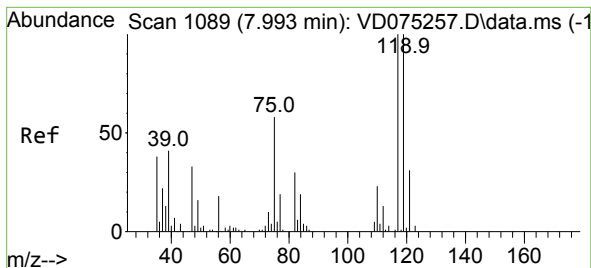
Ion Ratio Lower Upper

75 100

110 6.7 18.1 54.4#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.147 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

Lab File: VD075334.D

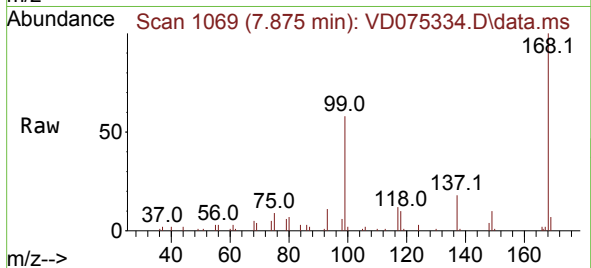
Acq: 14 Feb 2023 10:59

Instrument :

MSVOA\_D

ClientSampleId :

VD0214SBL01



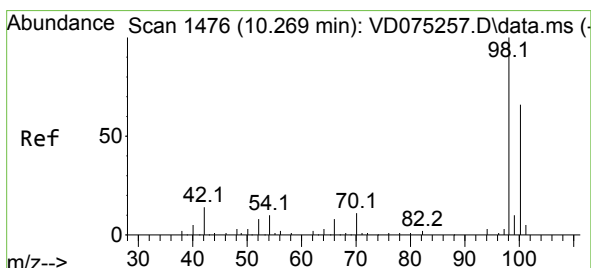
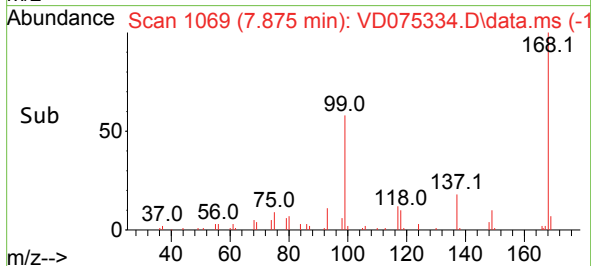
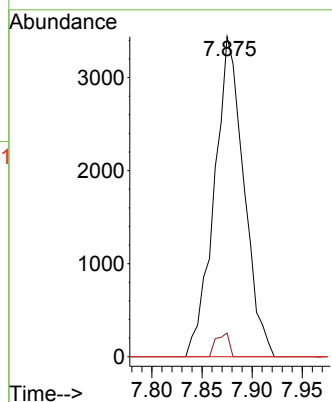
Tgt Ion:117 Resp: 7050

Ion Ratio Lower Upper

117 100

119 7.4 73.6 110.4#

121 0.0 25.4 38.0#



#50

Toluene-d8

Concen: 47.323 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD075334.D

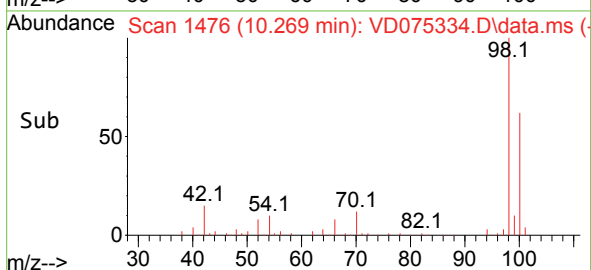
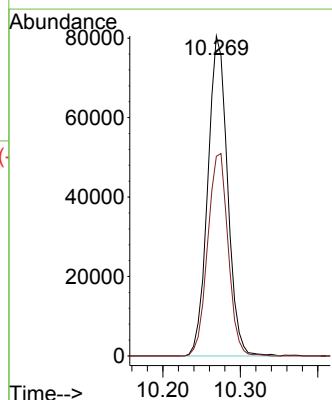
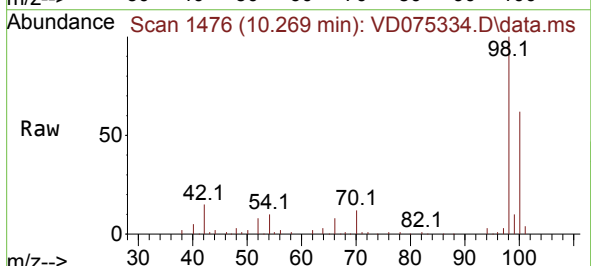
Acq: 14 Feb 2023 10:59

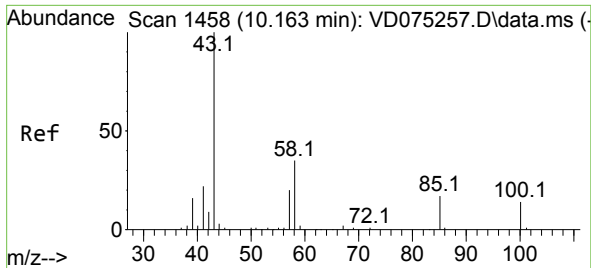
Tgt Ion: 98 Resp: 142593

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1

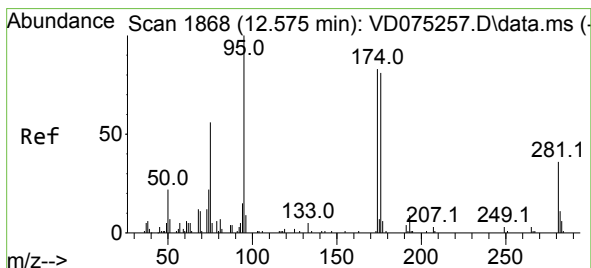
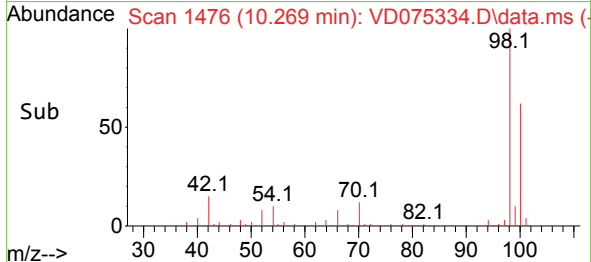
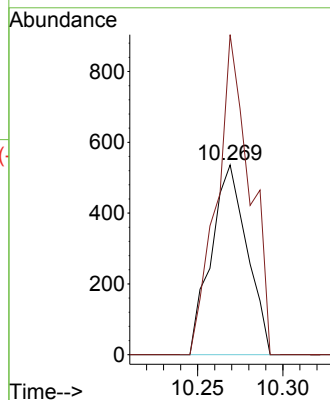
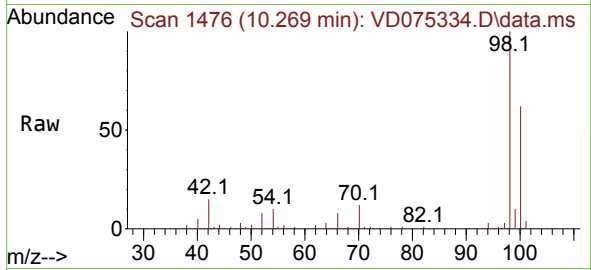




#51  
4-Methyl-2-Pentanone  
Concen: 1.507 ug/l  
RT: 10.269 min Scan# 1458  
Delta R.T. 0.106 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

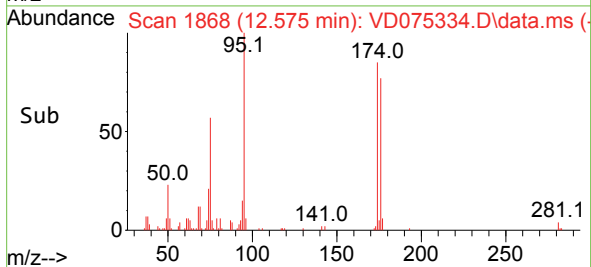
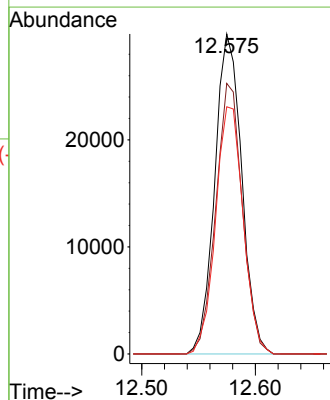
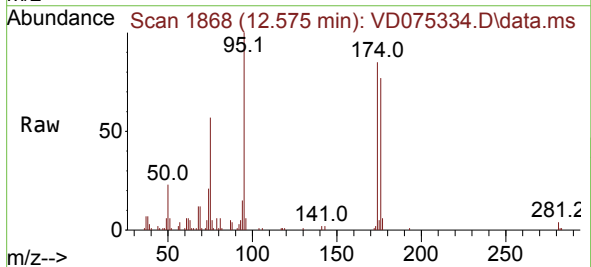
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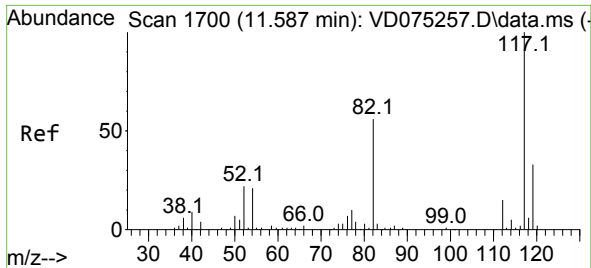
Tgt Ion: 43 Resp: 786  
Ion Ratio Lower Upper  
43 100  
58 155.5 31.4 47.0#



#62  
4-Bromofluorobenzene  
Concen: 49.658 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

Tgt Ion: 95 Resp: 49338  
Ion Ratio Lower Upper  
95 100  
174 83.5 0.0 161.2  
176 79.1 0.0 160.2

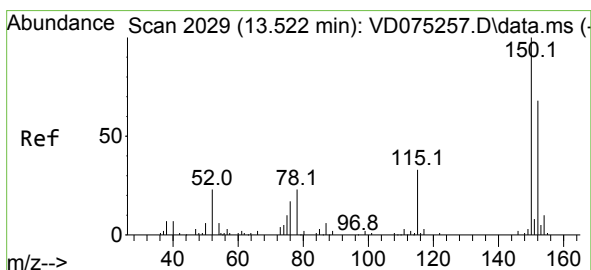
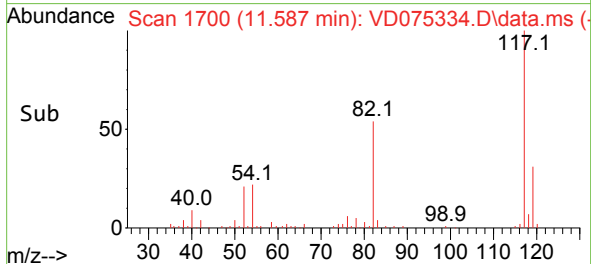
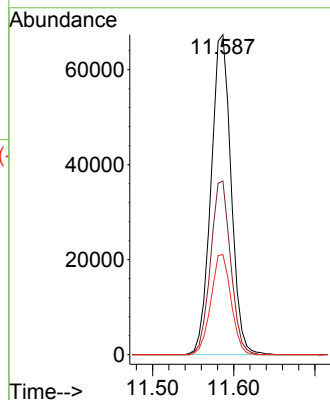
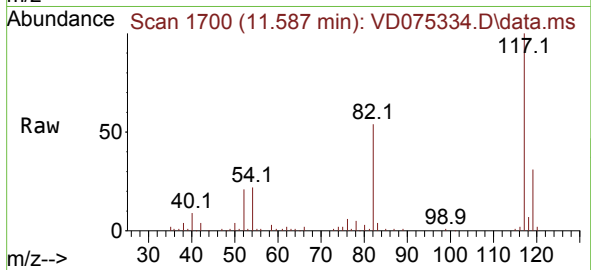




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.587 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

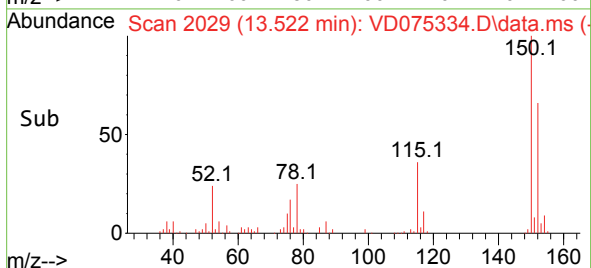
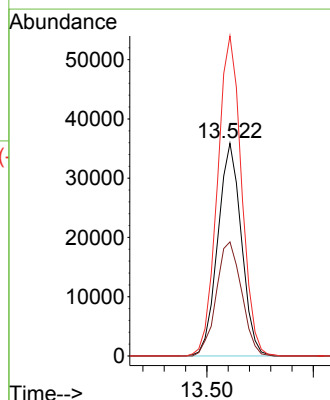
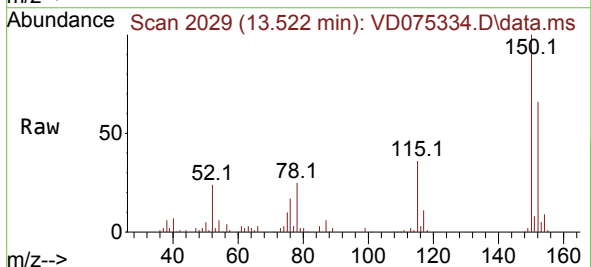
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0214SBL01

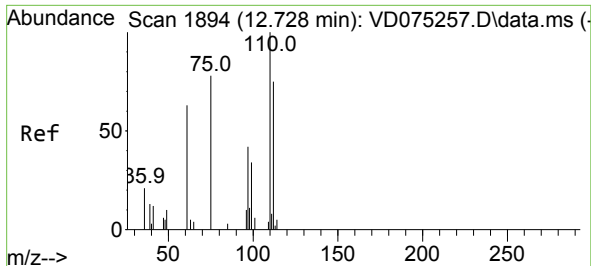
Tgt Ion:117 Resp: 115620  
Ion Ratio Lower Upper  
117 100  
82 54.2 39.6 59.4  
119 31.3 24.6 37.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2029  
Delta R.T. -0.000 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

Tgt Ion:152 Resp: 55148  
Ion Ratio Lower Upper  
152 100  
115 57.5 28.8 86.4  
150 153.5 0.0 348.6

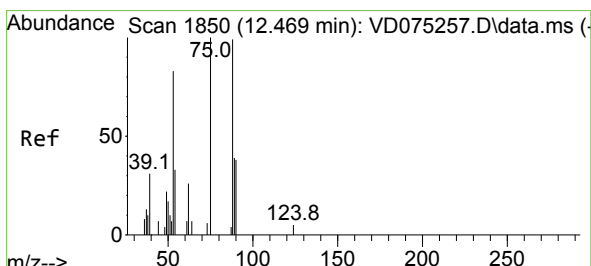
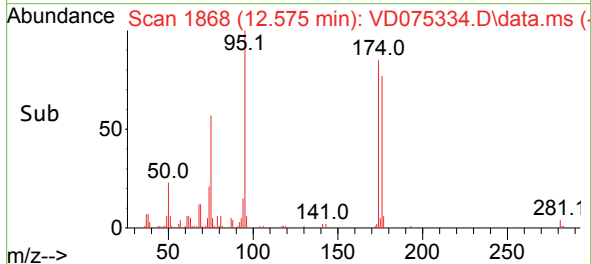
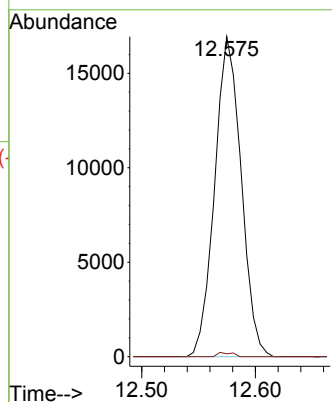
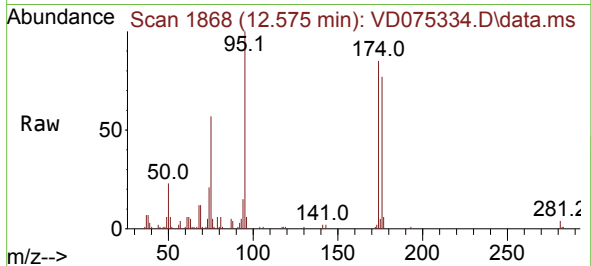




#76  
1,2,3-Trichloropropane  
Concen: 43.750 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0214SBL01

Tgt Ion: 75 Resp: 27405  
Ion Ratio Lower Upper  
75 100  
77 0.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 138.157 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD075334.D  
Acq: 14 Feb 2023 10:59

Tgt Ion: 75 Resp: 27405  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.5 105.7#  
89 0.0 34.6 52.0#

