

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072623\  
 Data File : VD076811.D  
 Acq On : 26 Jul 2023 17:43  
 Operator : KP/SY  
 Sample : 03769-06  
 Misc : 5.05G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 27 04:25:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.875  | 168  | 161258   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.775  | 114  | 342913   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.581 | 117  | 326654   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.516 | 152  | 140822   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.228  | 65    | 96976    | 60.377   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 120.760% |      |
| 35) Dibromofluoromethane    | 7.804  | 113   | 115785   | 53.731   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 107.460% |      |
| 50) Toluene-d8              | 10.269 | 98    | 426436   | 55.318   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 110.640% |      |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 123825   | 49.653   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | = 99.300%  |      |

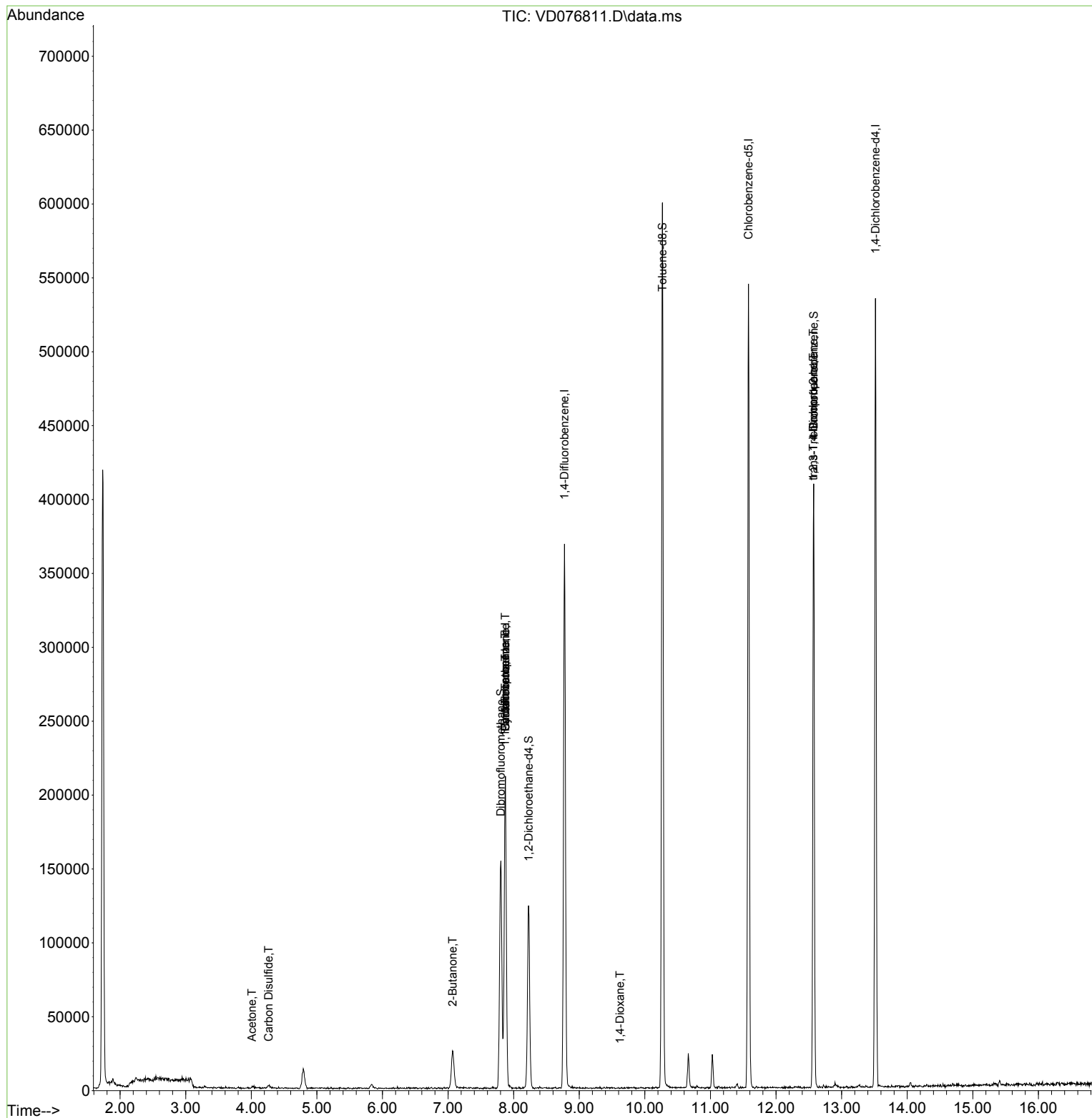
|                               |        |     |        |           |        |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| Target Compounds              |        |     | Qvalue |           |        |     |
| 16) Acetone                   | 4.011  | 43  | 755    | 1.968     | ug/l # | 78  |
| 17) Carbon Disulfide          | 4.263  | 76  | 3840   | 1.032     | ug/l # | 76  |
| 20) Methylene Chloride        | 4.781  | 84  | 10108  | Below Cal | #      | 87  |
| 25) 2-Butanone                | 7.069  | 43  | 1217   | 2.371     | ug/l # | 37  |
| 31) Cyclohexane               | 7.875  | 56  | 3585   | 1.517     | ug/l # | 11  |
| 36) 1,1-Dichloropropene       | 7.869  | 75  | 13280  | 4.716     | ug/l # | 48  |
| 38) Carbon Tetrachloride      | 7.875  | 117 | 15634  | 5.798     | ug/l # | 15  |
| 49) 1,4-Dioxane               | 9.622  | 88  | 58     | 3.372     | ug/l # | 33  |
| 76) 1,2,3-Trichloropropane    | 12.569 | 75  | 63173  | 47.172    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75  | 63173  | 100.394   | ug/l # | 17  |

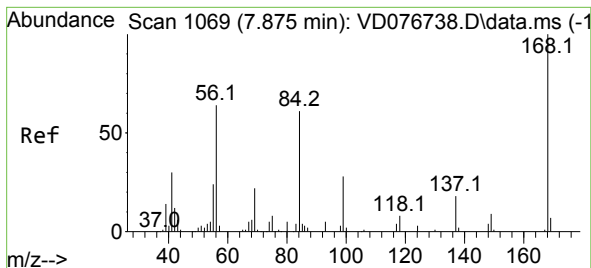
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 17 08:07:52 2023  
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: VD076811.D

Acq: 26 Jul 2023 17:43

Instrument :

MSVOA\_D

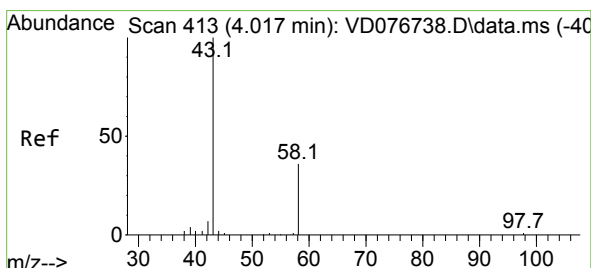
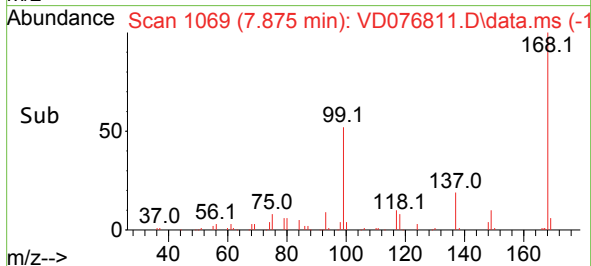
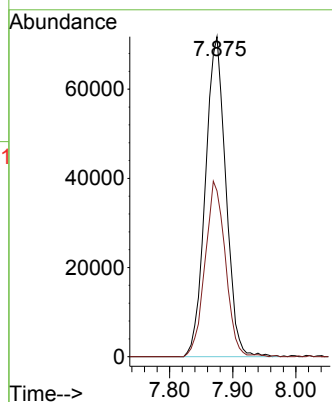
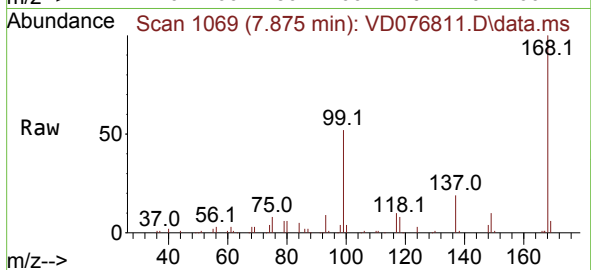
ClientSampleId :

Tgt Ion:168 Resp: 161258

Ion Ratio Lower Upper

168 100

99 51.8 36.7 55.1



#16

Acetone

Concen: 1.968 ug/l

RT: 4.011 min Scan# 412

Delta R.T. -0.006 min

Lab File: VD076811.D

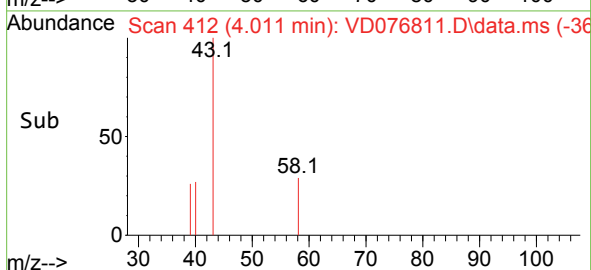
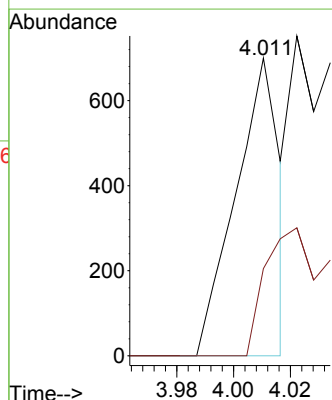
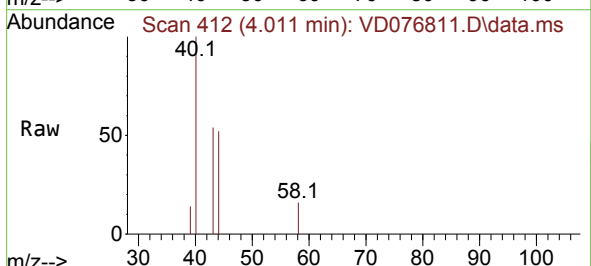
Acq: 26 Jul 2023 17:43

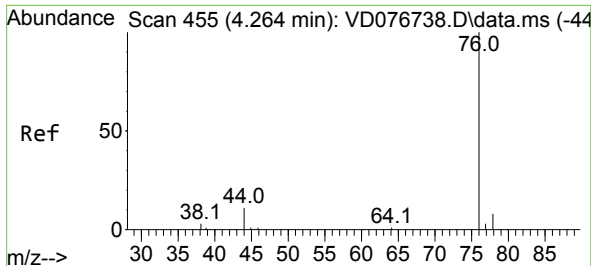
Tgt Ion: 43 Resp: 755

Ion Ratio Lower Upper

43 100

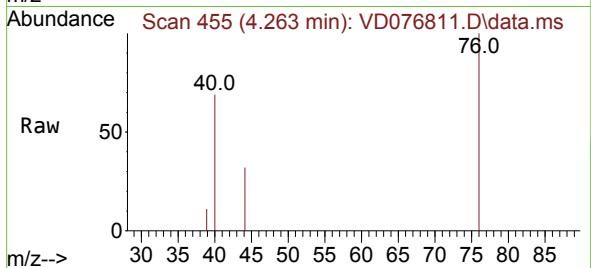
58 29.3 34.7 52.1#



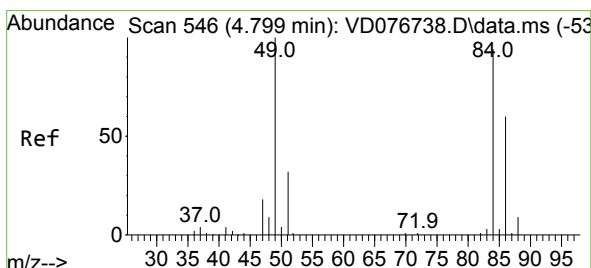
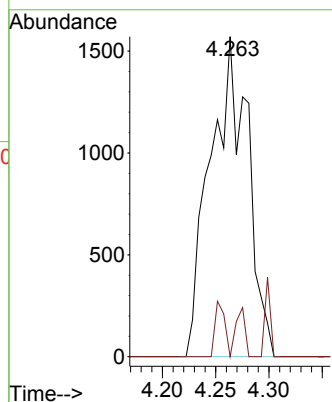
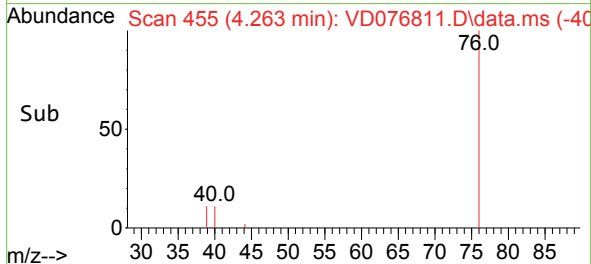


#17  
Carbon Disulfide  
Concen: 1.032 ug/l  
RT: 4.263 min Scan# 411  
Delta R.T. -0.001 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

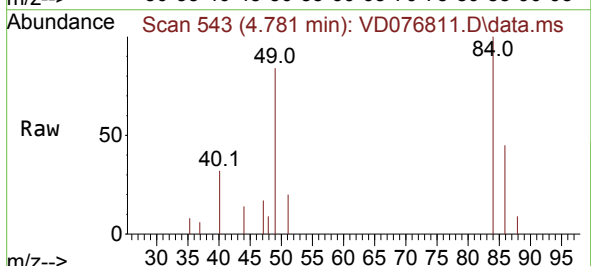
Instrument :  
MSVOA\_D  
ClientSampleId :



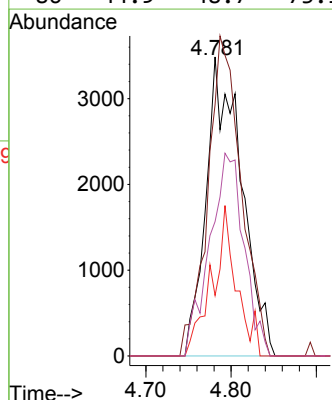
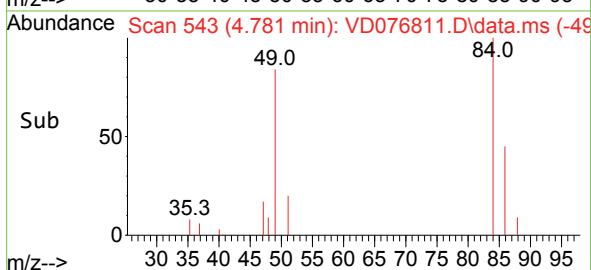
Tgt Ion: 76 Resp: 3840  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.8 10.2#

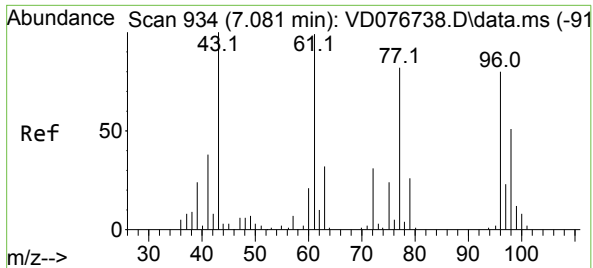


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.781 min Scan# 543  
Delta R.T. -0.018 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43



Tgt Ion: 84 Resp: 10108  
Ion Ratio Lower Upper  
84 100  
49 84.0 71.4 107.2  
51 20.2 24.5 36.7#  
86 44.9 48.7 73.1#





#25

2-Butanone

Concen: 2.371 ug/l

RT: 7.069 min Scan# 91

Delta R.T. -0.012 min

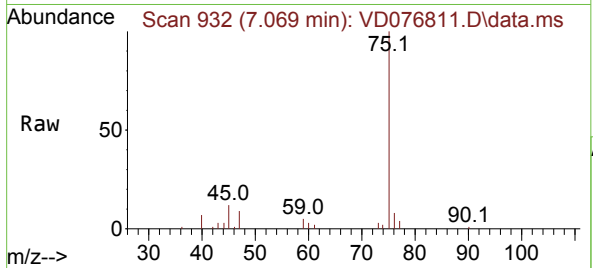
Lab File: VD076811.D

Acq: 26 Jul 2023 17:43

Instrument :

MSVOA\_D

ClientSampleId :

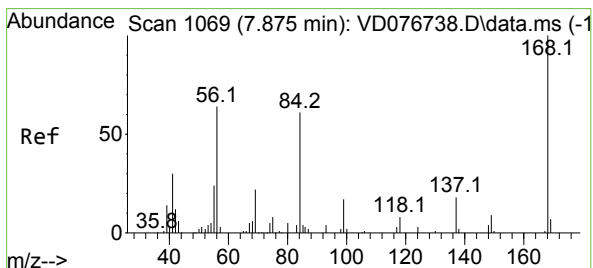
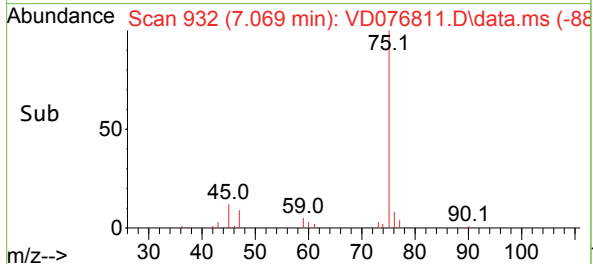
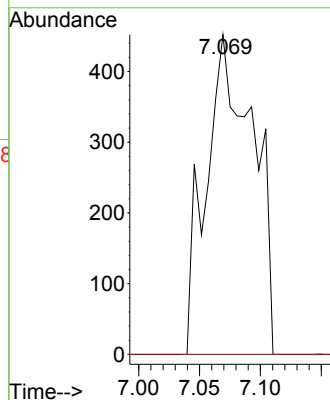


Tgt Ion: 43 Resp: 1217

Ion Ratio Lower Upper

43 100

72 0.0 30.7 46.1#



#31

Cyclohexane

Concen: 1.517 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD076811.D

Acq: 26 Jul 2023 17:43

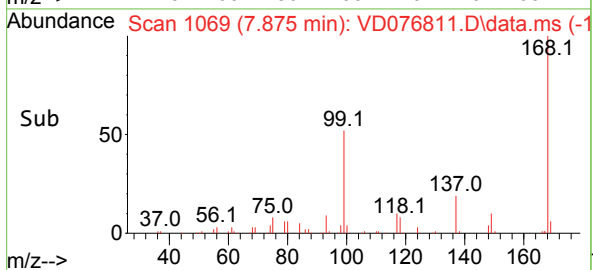
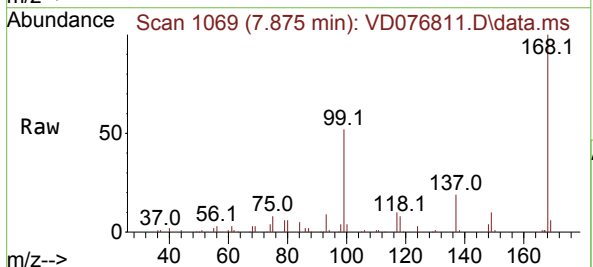
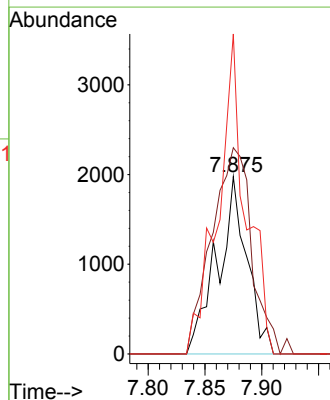
Tgt Ion: 56 Resp: 3585

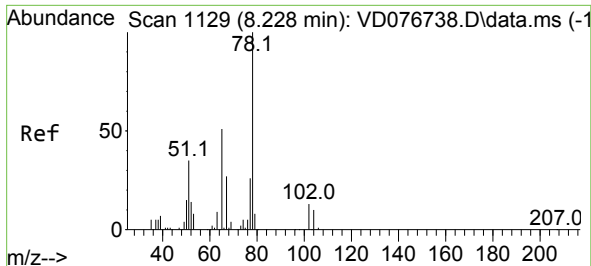
Ion Ratio Lower Upper

56 100

69 116.3 28.6 43.0#

84 180.5 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 60.377 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD076811.D

Acq: 26 Jul 2023 17:43

Instrument :

MSVOA\_D

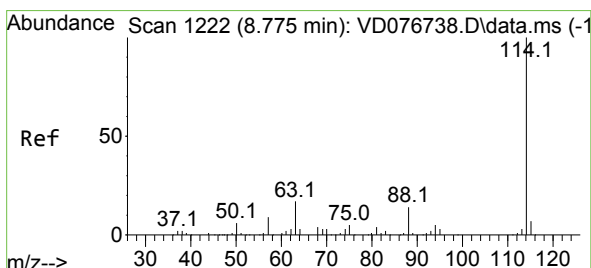
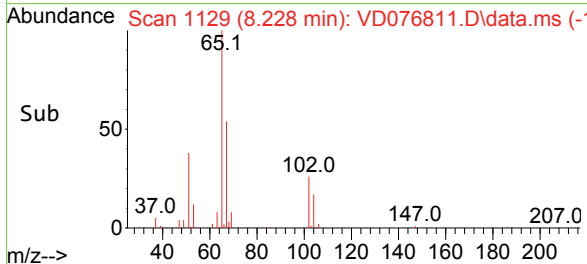
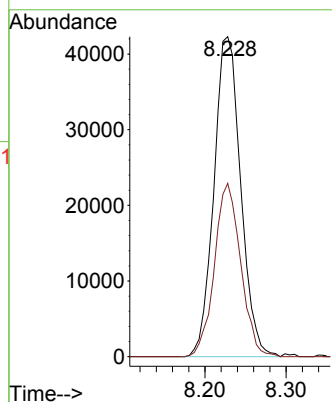
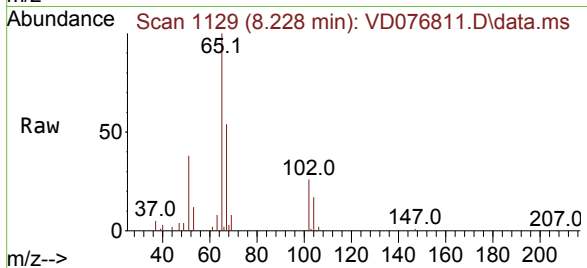
ClientSampleId :

Tgt Ion: 65 Resp: 96976

Ion Ratio Lower Upper

65 100

67 53.1 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD076811.D

Acq: 26 Jul 2023 17:43

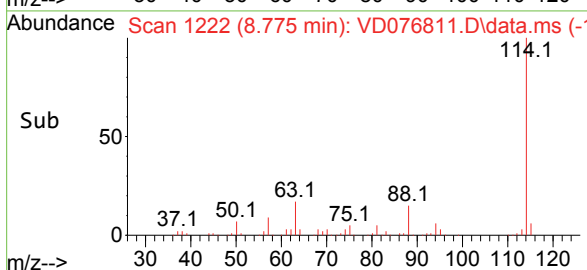
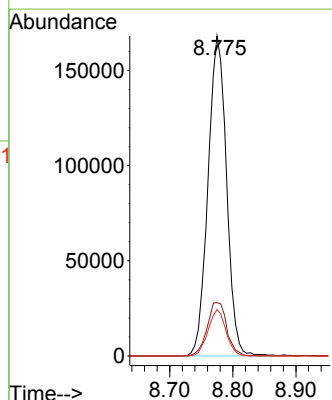
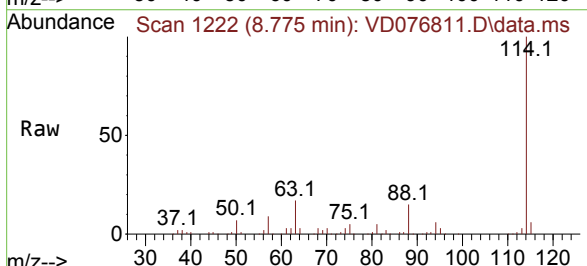
Tgt Ion: 114 Resp: 342913

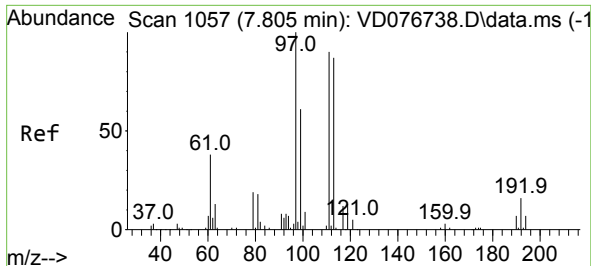
Ion Ratio Lower Upper

114 100

63 16.6 0.0 33.4

88 14.5 0.0 26.2





#35

Dibromofluoromethane

Concen: 53.731 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.001 min

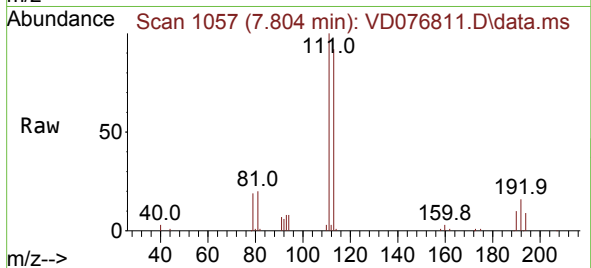
Lab File: VD076811.D

Acq: 26 Jul 2023 17:43

Instrument :

MSVOA\_D

ClientSampleId :



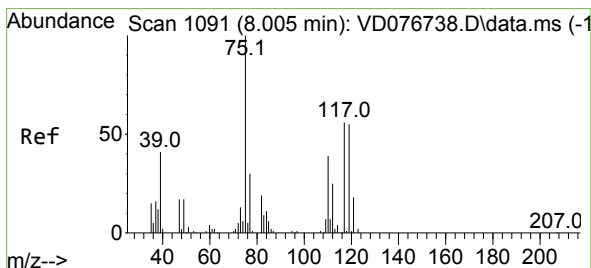
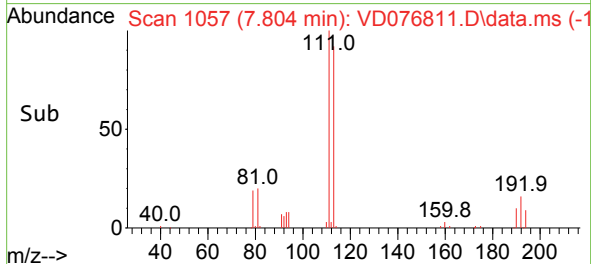
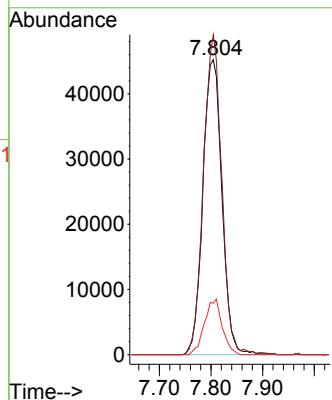
Tgt Ion:113 Resp: 115785

Ion Ratio Lower Upper

113 100

111 104.2 84.7 127.1

192 17.5 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.716 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.136 min

Lab File: VD076811.D

Acq: 26 Jul 2023 17:43

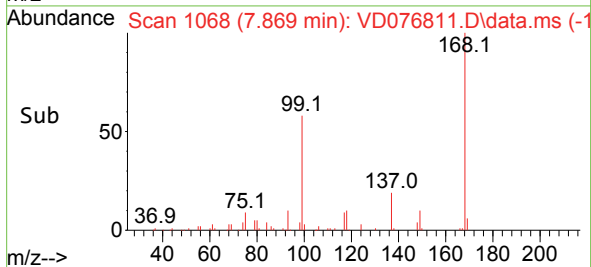
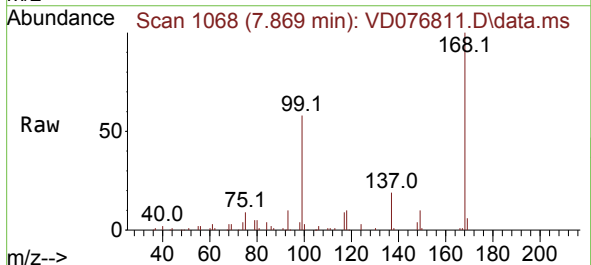
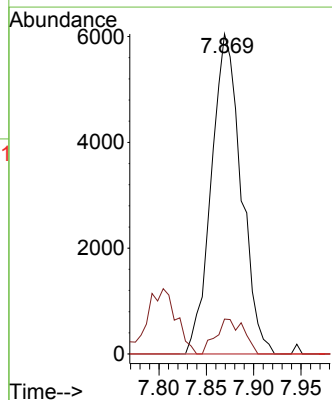
Tgt Ion: 75 Resp: 13280

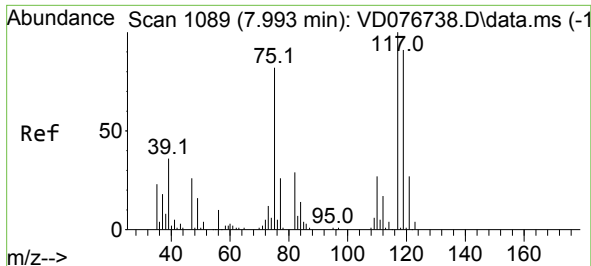
Ion Ratio Lower Upper

75 100

110 10.1 19.9 59.6#

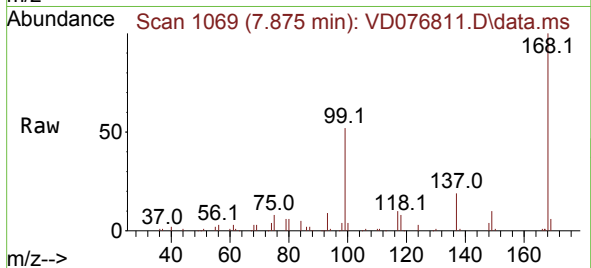
77 0.0 24.7 37.1#



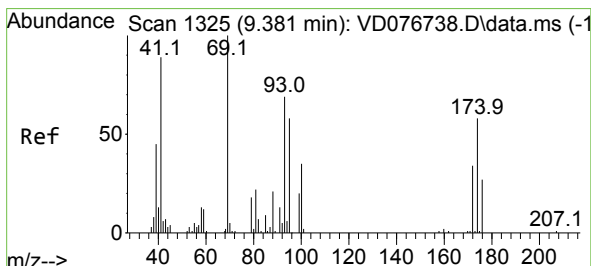
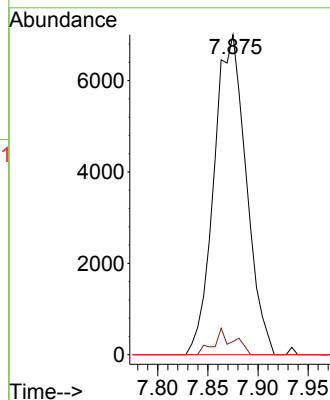
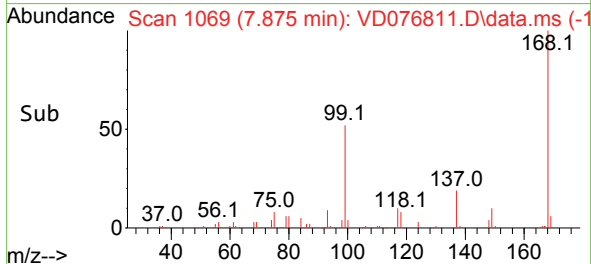


#38  
Carbon Tetrachloride  
Concen: 5.798 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.118 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

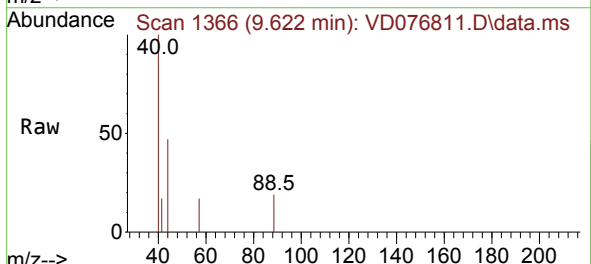
Instrument :  
MSVOA\_D  
ClientSampleId :



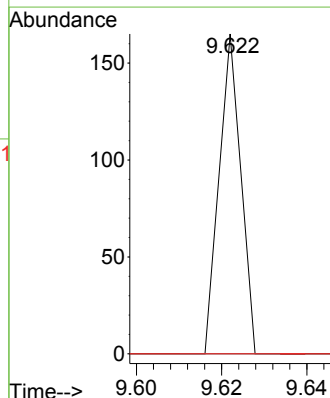
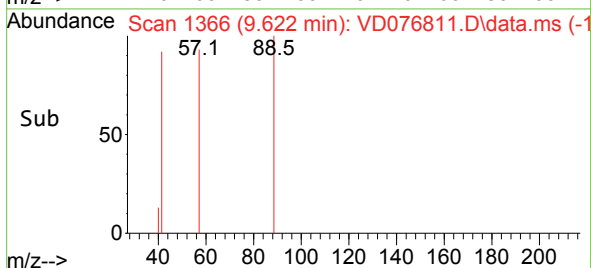
Tgt Ion:117 Resp: 15634  
Ion Ratio Lower Upper  
117 100  
119 4.1 78.0 117.0#  
121 0.0 24.2 36.2#



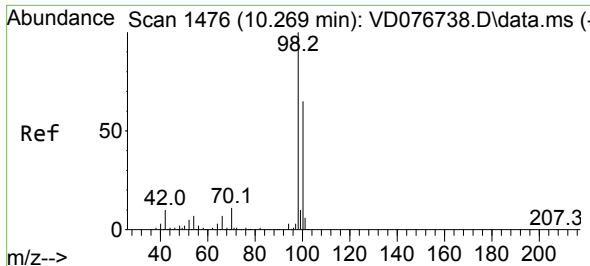
#49  
1,4-Dioxane  
Concen: 3.372 ug/l  
RT: 9.622 min Scan# 1366  
Delta R.T. 0.241 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43



Tgt Ion: 88 Resp: 58  
Ion Ratio Lower Upper  
88 100  
43 0.0 19.0 28.6#  
58 0.0 43.5 65.3#



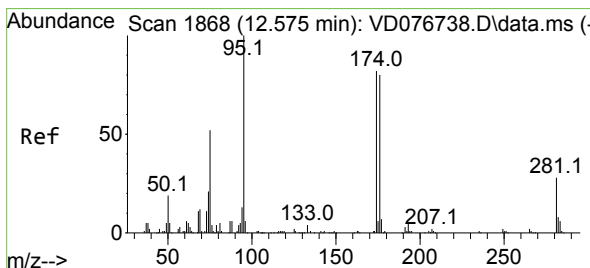
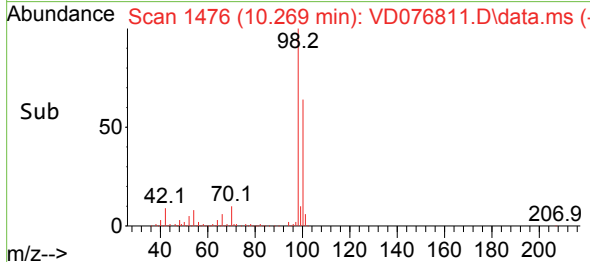
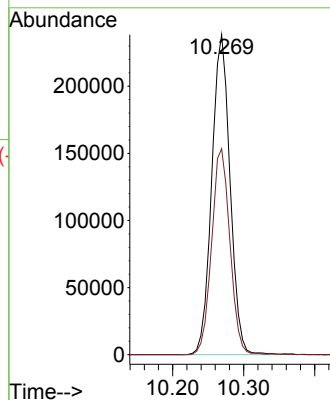
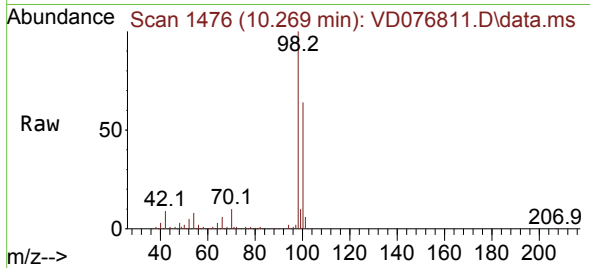




#50  
Toluene-d8  
Concen: 55.318 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

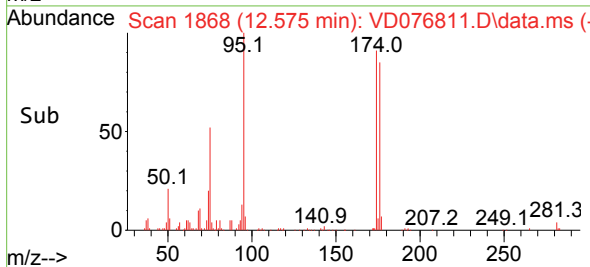
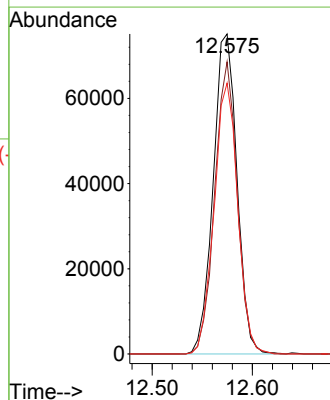
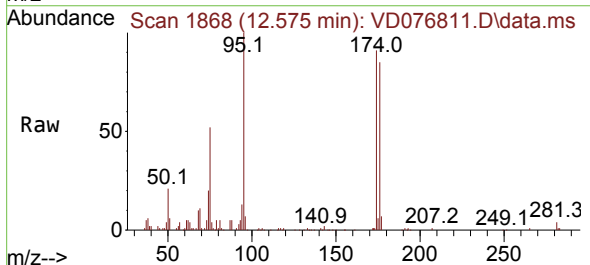
Instrument :  
MSVOA\_D  
ClientSampleId :

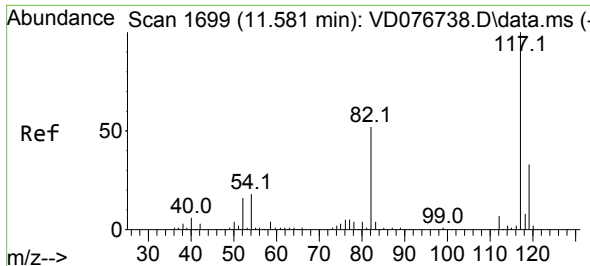
Tgt Ion: 98 Resp: 426436  
Ion Ratio Lower Upper  
98 100  
100 64.3 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 49.653 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

Tgt Ion: 95 Resp: 123825  
Ion Ratio Lower Upper  
95 100  
174 86.3 0.0 201.8  
176 84.1 0.0 191.8

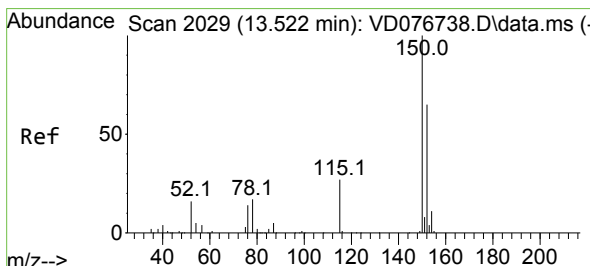
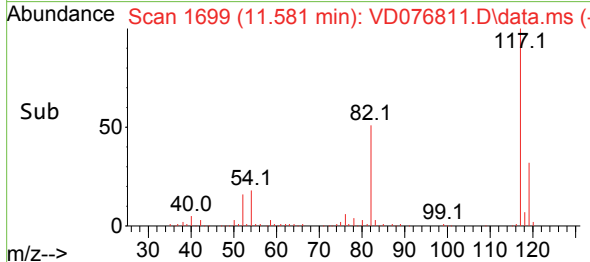
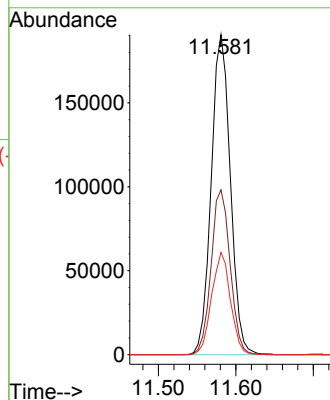
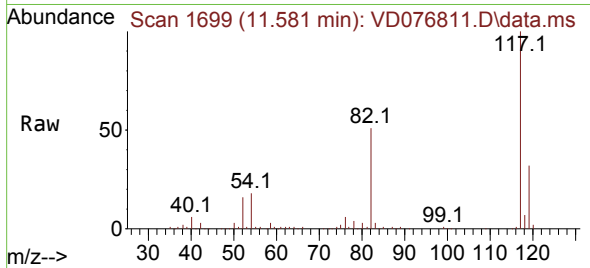




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

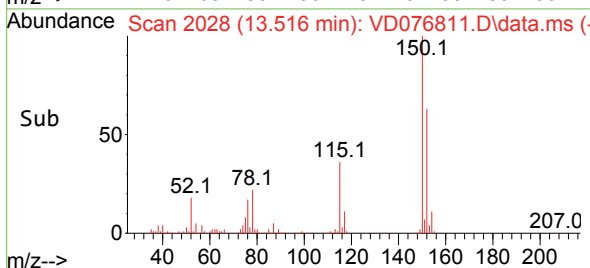
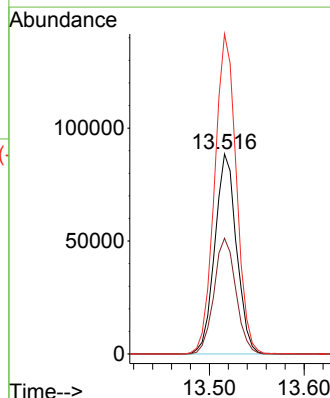
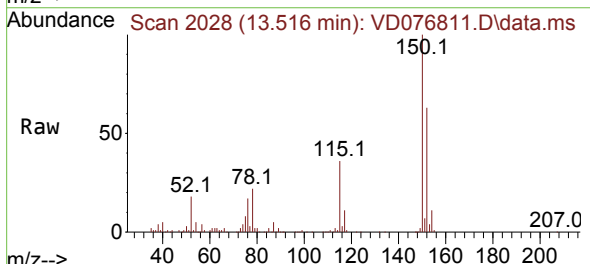
Instrument :  
MSVOA\_D  
ClientSampleId :

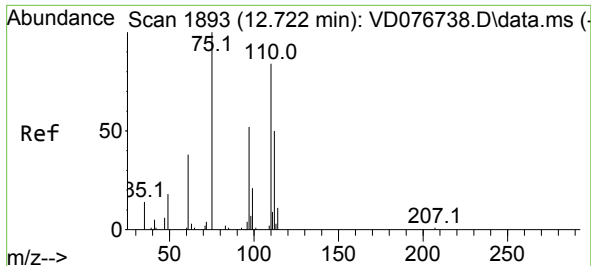
Tgt Ion:117 Resp: 326654  
Ion Ratio Lower Upper  
117 100  
82 51.5 38.3 57.5  
119 32.0 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.006 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

Tgt Ion:152 Resp: 140822  
Ion Ratio Lower Upper  
152 100  
115 58.4 27.1 81.3  
150 160.2 0.0 353.6

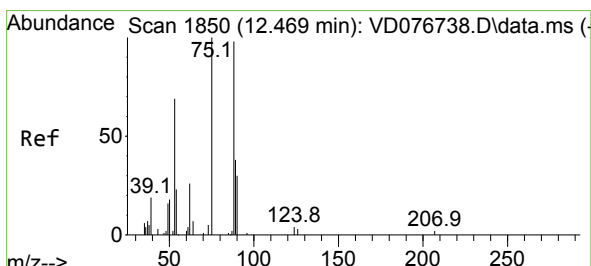
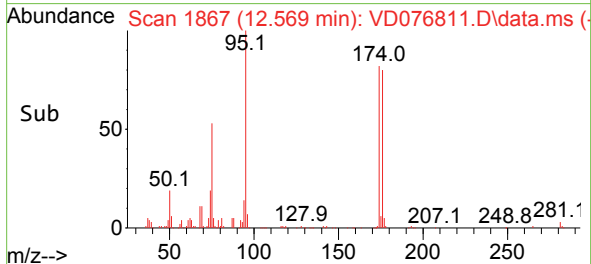
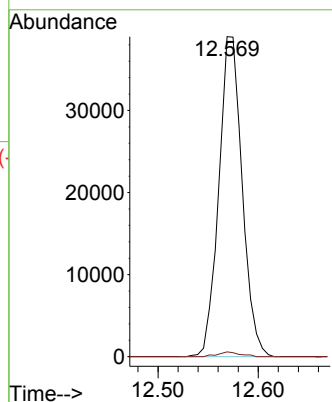
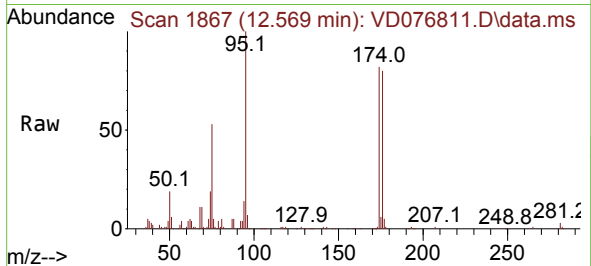




#76  
1,2,3-Trichloropropane  
Concen: 47.172 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.153 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 63173  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 100.394 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.100 min  
Lab File: VD076811.D  
Acq: 26 Jul 2023 17:43

Tgt Ion: 75 Resp: 63173  
Ion Ratio Lower Upper  
75 100  
53 0.0 63.0 94.4#  
89 0.0 37.9 56.9#

