

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022024\  
 Data File : VD078484.D  
 Acq On : 20 Feb 2024 15:37  
 Operator : RP/MD  
 Sample : P1523-06RE  
 Misc : 5.05G/5ml/MSVOA\_D/SOIL/B  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20240766-AMENDED-COMP-39N-N-3-01

Quant Time: Feb 21 05:24:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 14 01:16:20 2024  
 Response via : Initial Calibration

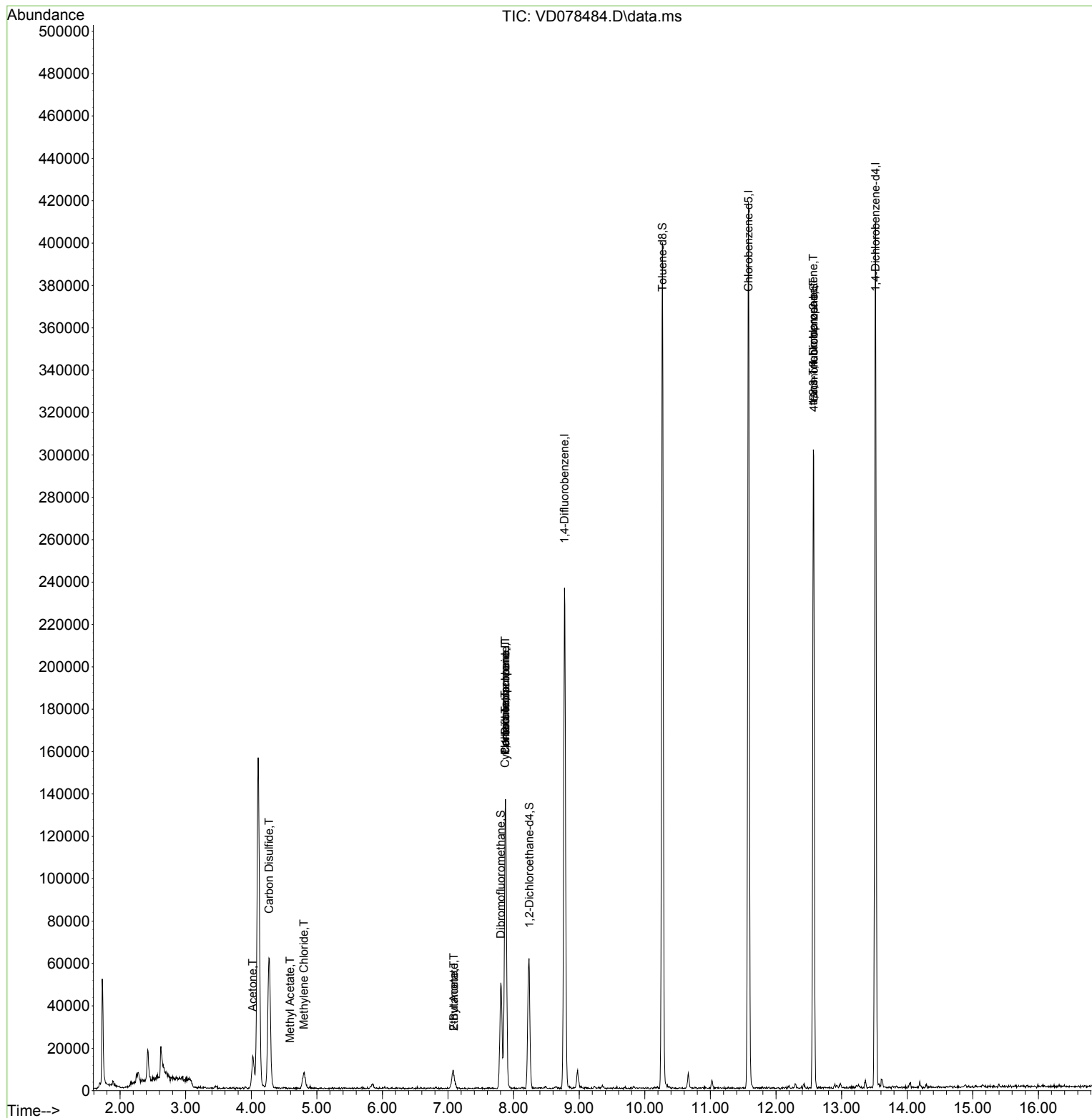
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.875          | 168  | 106658     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775          | 114  | 211236     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581         | 117  | 244694     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516         | 152  | 108997     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.240          | 65   | 48901      | 42.403    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 84.800%   |        |          |
| 35) Dibromofluoromethane      | 7.805          | 113  | 36182      | 26.965    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 53.940%#  |        |          |
| 50) Toluene-d8                | 10.269         | 98   | 274870     | 51.209    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = | 102.420%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.575         | 95   | 92269      | 59.071    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = | 118.140%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 16) Acetone                   | 4.022          | 43   | 25461      | 98.424    | ug/l   | 90       |
| 17) Carbon Disulfide          | 4.269          | 76   | 131539     | 33.621    | ug/l   | 96       |
| 18) Methyl Acetate            | 4.593          | 43   | 77         | 4.026     | ug/l # | 42       |
| 20) Methylene Chloride        | 4.805          | 84   | 6447       | 1.967     | ug/l   | 95       |
| 23) Vinyl Acetate             | 6.310          | 43   | 58         | Below Cal | #      | 63       |
| 25) 2-Butanone                | 7.087          | 43   | 6045       | 5.324     | ug/l # | 84       |
| 31) Cyclohexane               | 7.869          | 56   | 2728       | 1.398     | ug/l # | 61       |
| 36) 1,1-Dichloropropene       | 7.875          | 75   | 9592       | 4.602     | ug/l # | 44       |
| 37) Ethyl Acetate             | 7.087          | 43   | 6045       | 8.273     | ug/l # | 65       |
| 38) Carbon Tetrachloride      | 7.875          | 117  | 9971       | 4.830     | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.569         | 75   | 47967      | 51.837    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.569         | 75   | 47967      | 107.614   | ug/l # | 17       |
| -----                         |                |      |            |           |        |          |

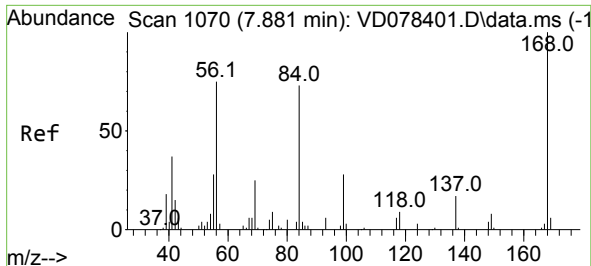
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Feb 14 01:16:20 2024  
Response via : Initial Calibration

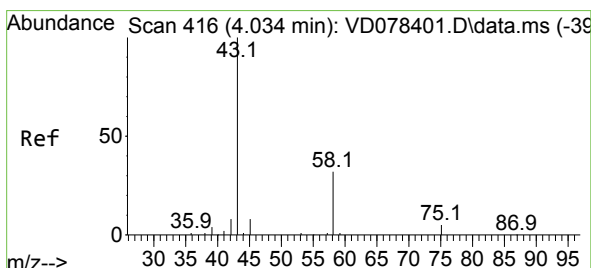
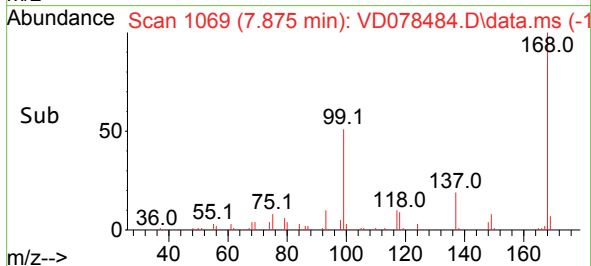
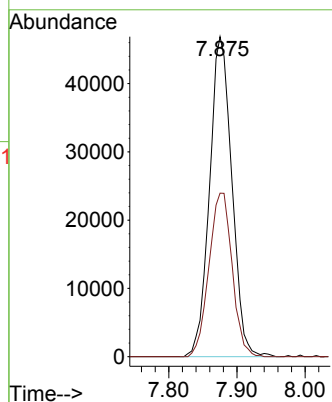
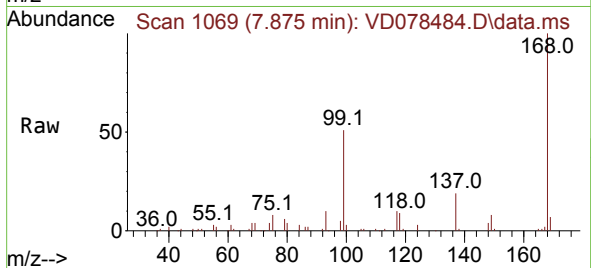




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

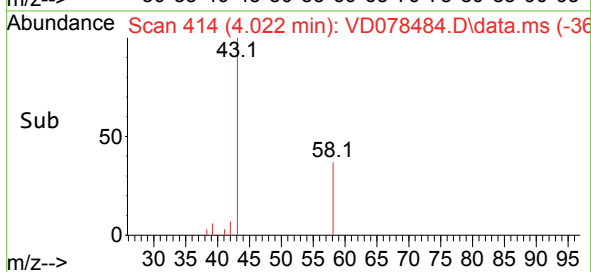
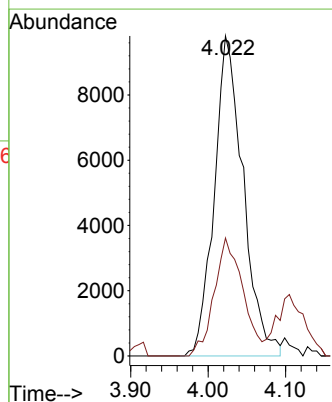
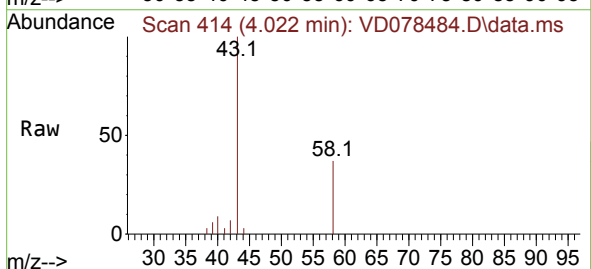
Instrument :  
MSVOA\_D  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

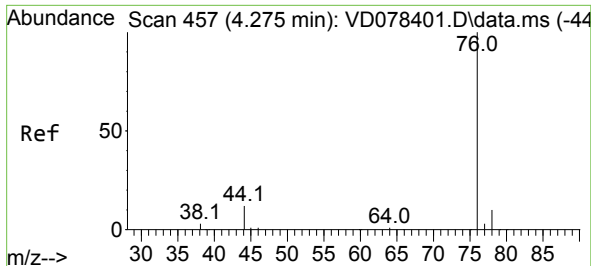
Tgt Ion:168 Resp: 106658  
Ion Ratio Lower Upper  
168 100  
99 51.1 36.7 55.1



#16  
Acetone  
Concen: 98.424 ug/l  
RT: 4.022 min Scan# 414  
Delta R.T. -0.012 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

Tgt Ion: 43 Resp: 25461  
Ion Ratio Lower Upper  
43 100  
58 36.8 34.7 52.1

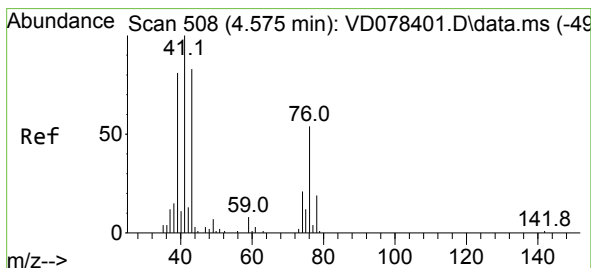
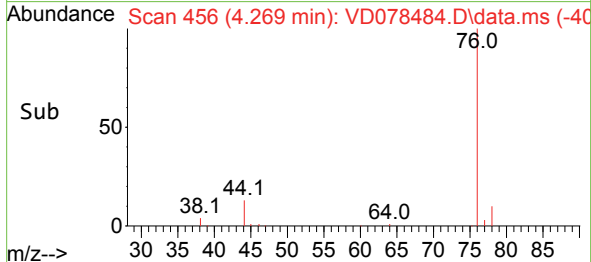
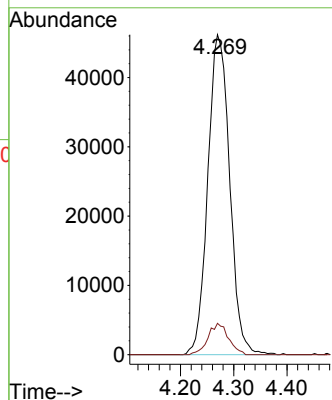
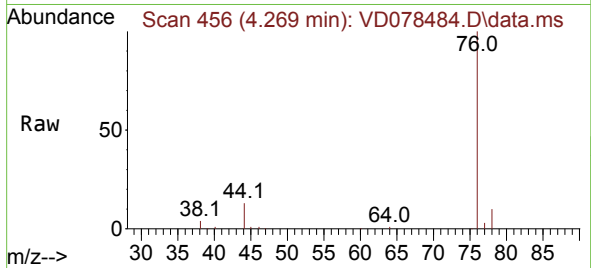




#17  
Carbon Disulfide  
Concen: 33.621 ug/l  
RT: 4.269 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

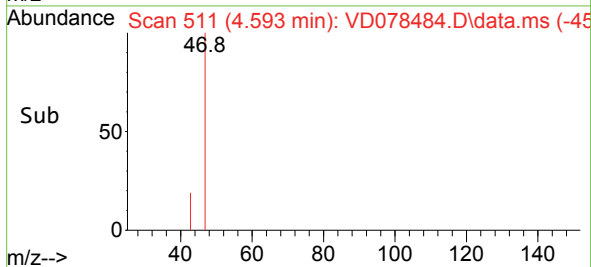
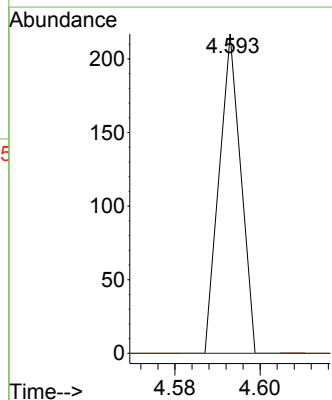
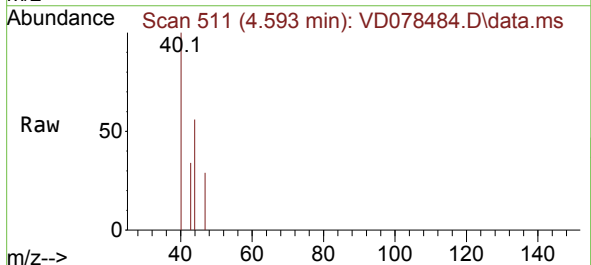
Instrument : MSVOA\_D  
ClientSampleId : 20240766-AMENDED-COMP-39N-N-3-01

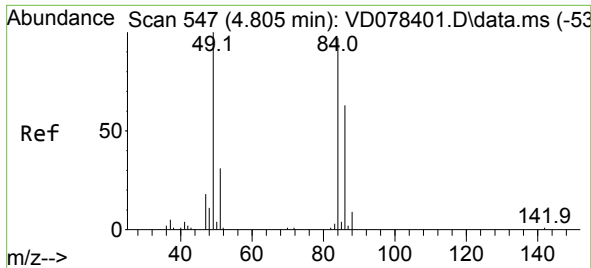
Tgt Ion: 76 Resp: 131539  
Ion Ratio Lower Upper  
76 100  
78 9.8 6.8 10.2



#18  
Methyl Acetate  
Concen: 4.026 ug/l  
RT: 4.593 min Scan# 511  
Delta R.T. 0.018 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

Tgt Ion: 43 Resp: 77  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.4 39.6#

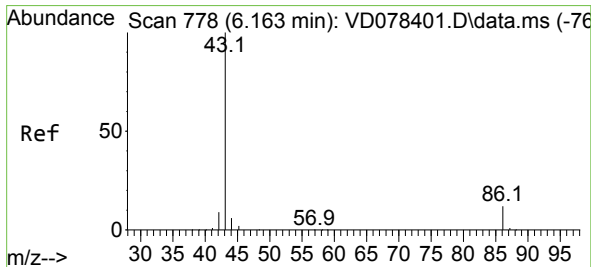
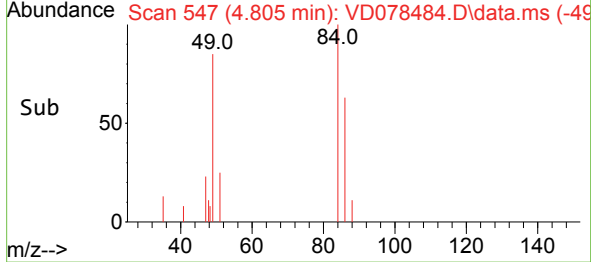
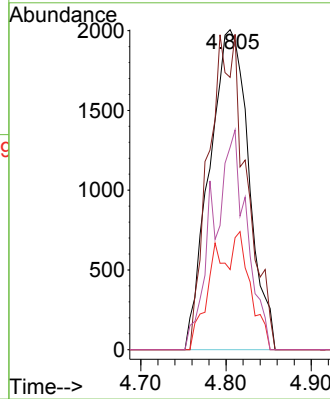
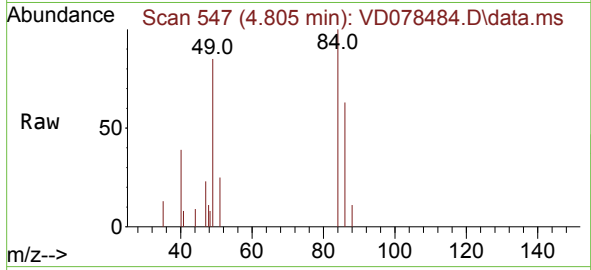




#20  
Methylene Chloride  
Concen: 1.967 ug/l  
RT: 4.805 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

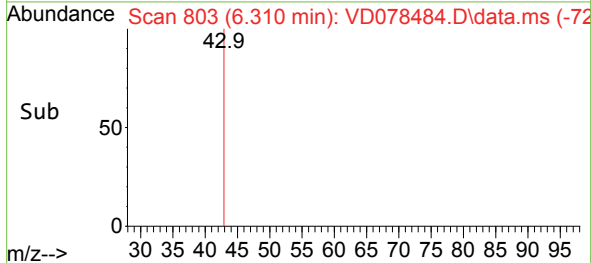
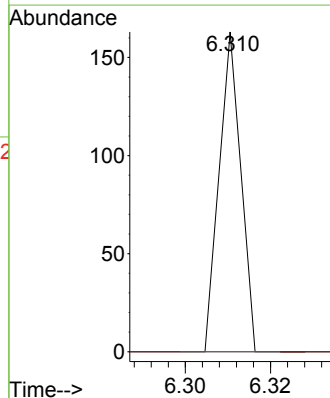
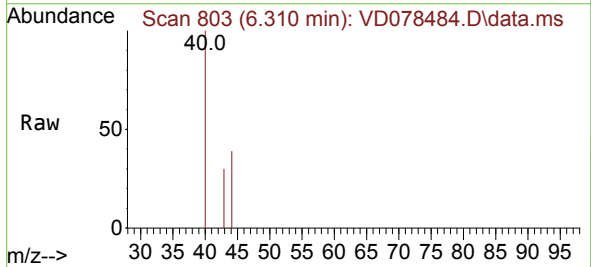
Instrument :  
MSVOA\_D  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

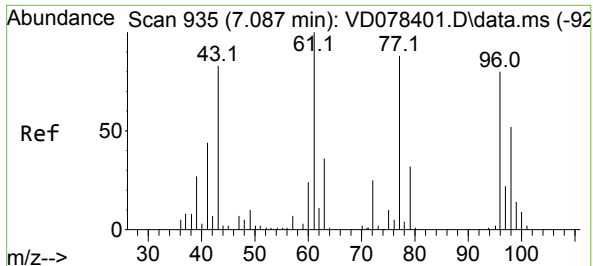
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 6447  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 85.1  | 71.4  | 107.2 |
| 51       | 25.1  | 24.5  | 36.7  |
| 86       | 63.3  | 48.7  | 73.1  |



#23  
Vinyl Acetate  
Concen: Below Cal  
RT: 6.310 min Scan# 803  
Delta R.T. 0.147 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 58    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 12.5  | 18.7# |





#25

2-Butanone

Concen: 5.324 ug/l

RT: 7.087 min Scan# 91

Delta R.T. -0.000 min

Lab File: VD078484.D

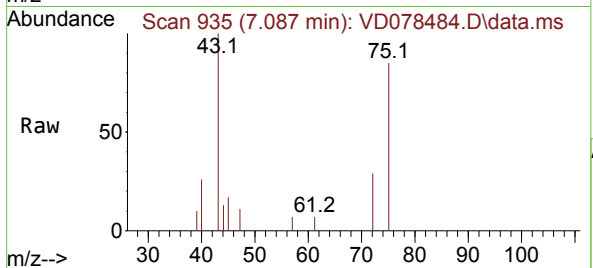
Acq: 20 Feb 2024 15:37

Instrument :

MSVOA\_D

ClientSampleId :

20240766-AMENDED-COMP-39N-N-3-01

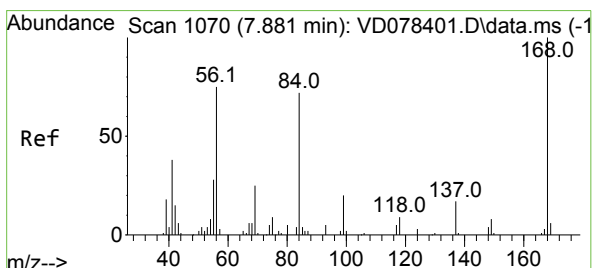
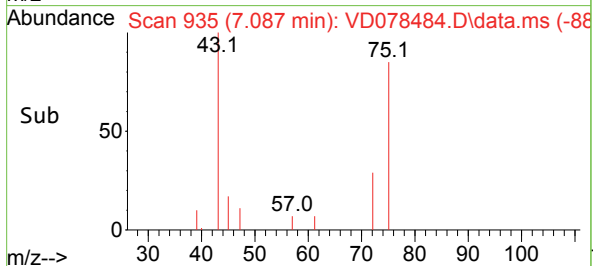
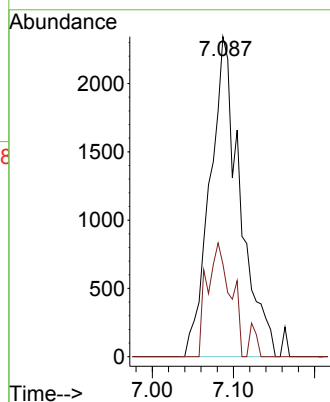


Tgt Ion: 43 Resp: 6045

Ion Ratio Lower Upper

43 100

72 28.9 30.7 46.1#



#31

Cyclohexane

Concen: 1.398 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.012 min

Lab File: VD078484.D

Acq: 20 Feb 2024 15:37

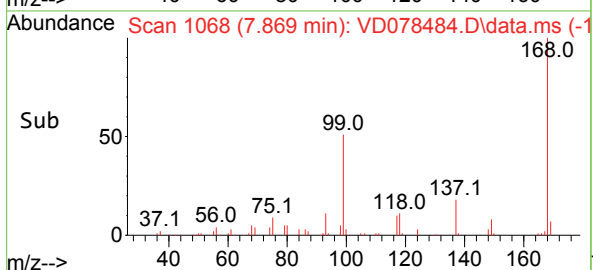
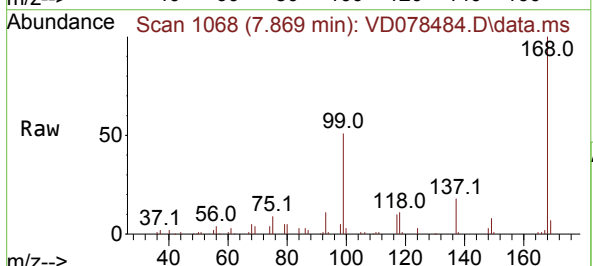
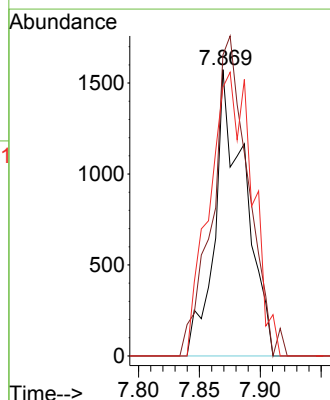
Tgt Ion: 56 Resp: 2728

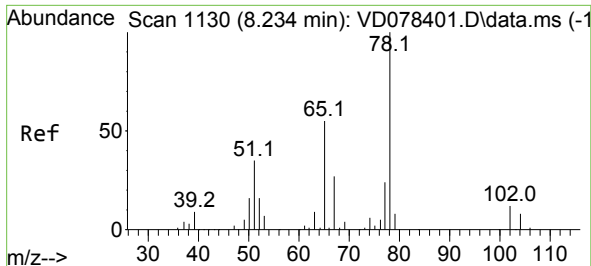
Ion Ratio Lower Upper

56 100

69 105.1 28.6 43.0#

84 93.8 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 42.403 ug/l

RT: 8.240 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD078484.D

Acq: 20 Feb 2024 15:37

Instrument :

MSVOA\_D

ClientSampleId :

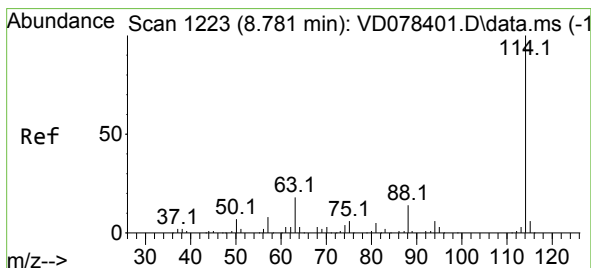
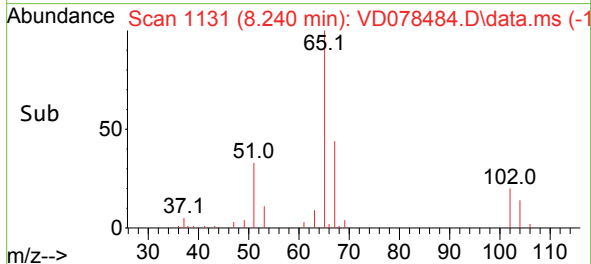
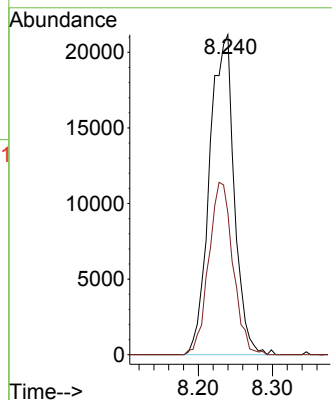
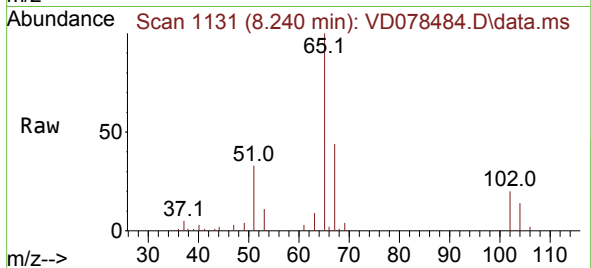
20240766-AMENDED-COMP-39N-N-3-01

Tgt Ion: 65 Resp: 48901

Ion Ratio Lower Upper

65 100

67 52.9 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD078484.D

Acq: 20 Feb 2024 15:37

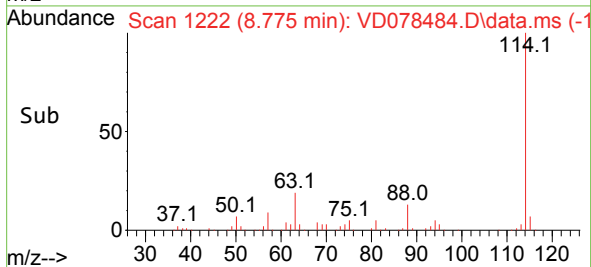
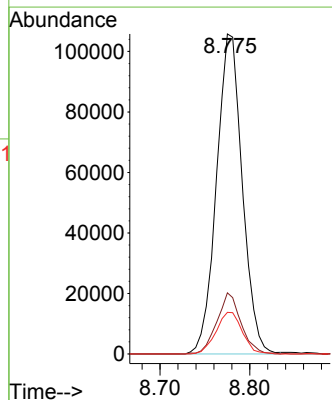
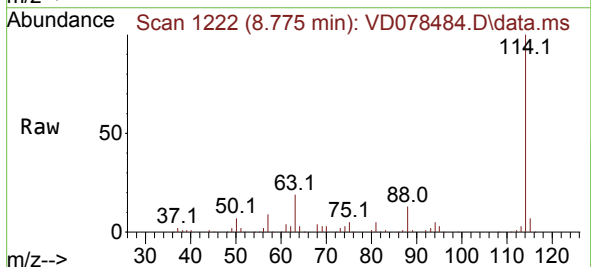
Tgt Ion: 114 Resp: 211236

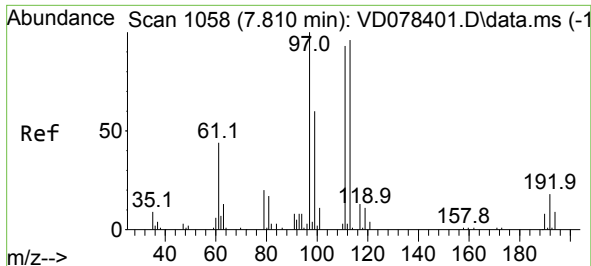
Ion Ratio Lower Upper

114 100

63 19.1 0.0 33.4

88 13.0 0.0 26.2





#35

Dibromofluoromethane

Concen: 26.965 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078484.D

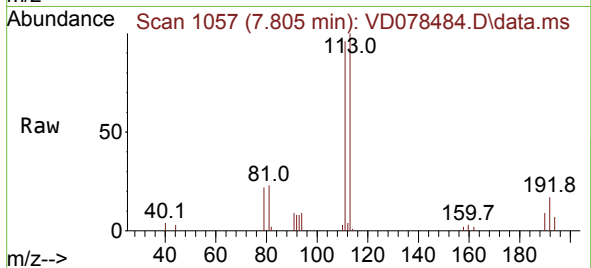
Acq: 20 Feb 2024 15:37

Instrument :

MSVOA\_D

ClientSampleId :

20240766-AMENDED-COMP-39N-N-3-01



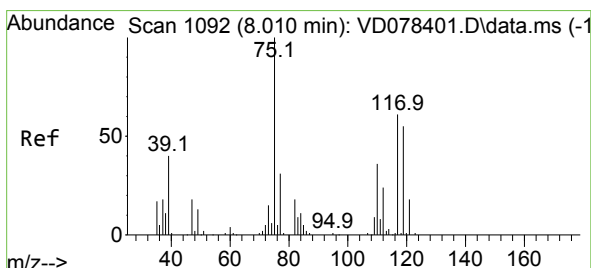
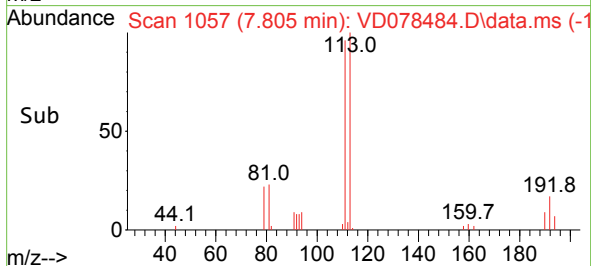
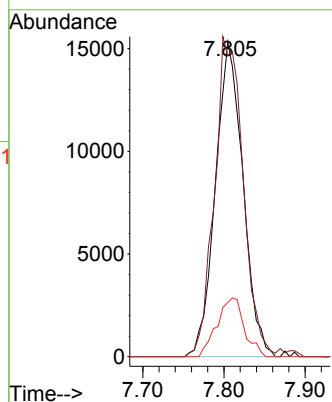
Tgt Ion:113 Resp: 36182

Ion Ratio Lower Upper

113 100

111 105.0 84.7 127.1

192 18.5 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.602 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD078484.D

Acq: 20 Feb 2024 15:37

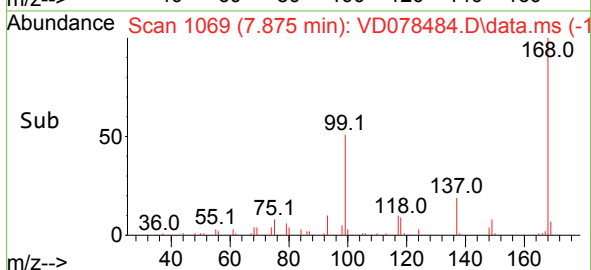
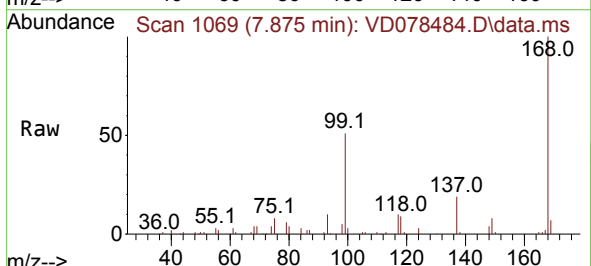
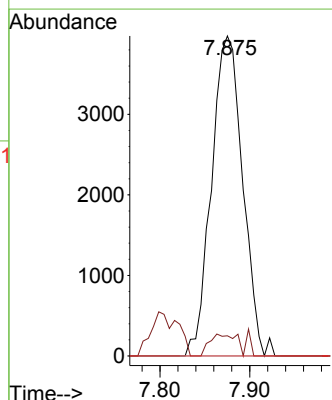
Tgt Ion: 75 Resp: 9592

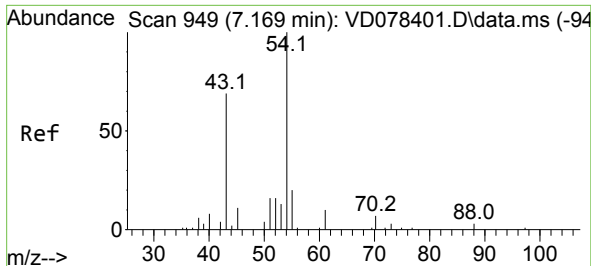
Ion Ratio Lower Upper

75 100

110 5.9 19.9 59.6#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 8.273 ug/l

RT: 7.087 min Scan# 91

Delta R.T. -0.082 min

Lab File: VD078484.D

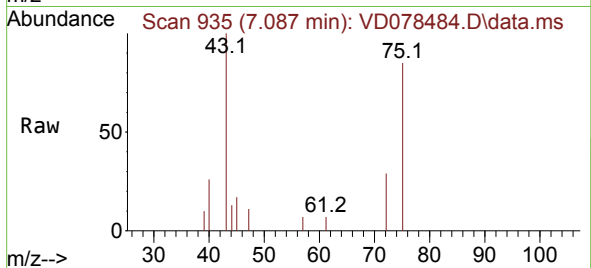
Acq: 20 Feb 2024 15:37

Instrument :

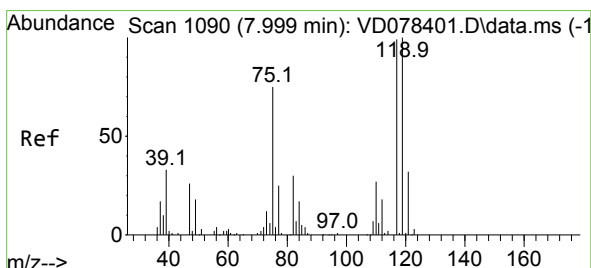
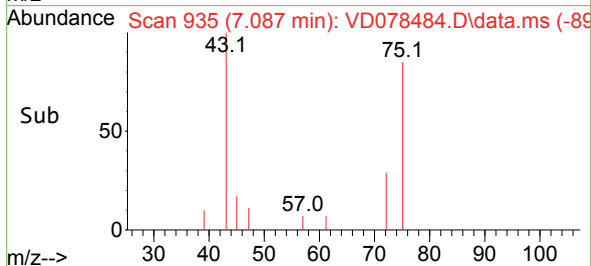
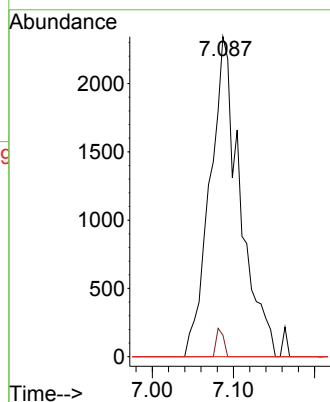
MSVOA\_D

ClientSampleId :

20240766-AMENDED-COMP-39N-N-3-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 6045  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 2.2   | 14.9  | 22.3# |
| 70       | 0.0   | 10.0  | 15.0# |



#38

Carbon Tetrachloride

Concen: 4.830 ug/l

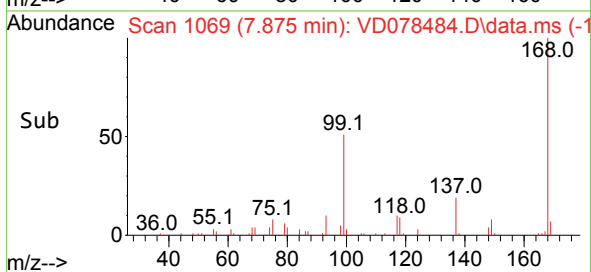
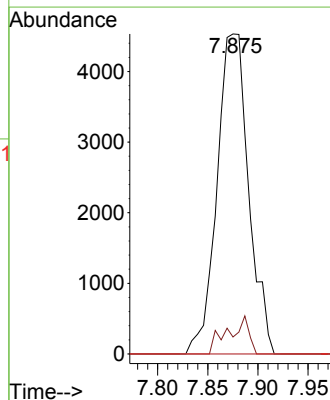
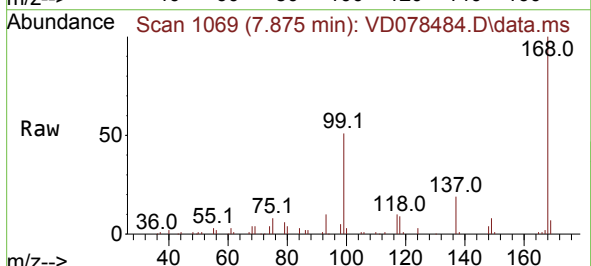
RT: 7.875 min Scan# 1069

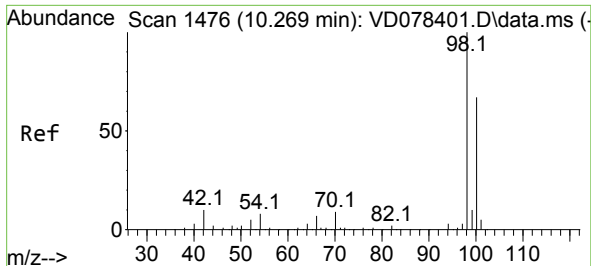
Delta R.T. -0.124 min

Lab File: VD078484.D

Acq: 20 Feb 2024 15:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 9971   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.3   | 78.0  | 117.0# |
| 121      | 0.0   | 24.2  | 36.2#  |

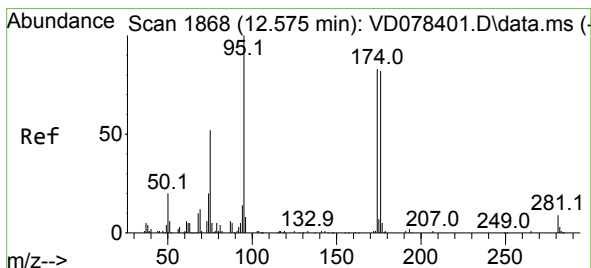
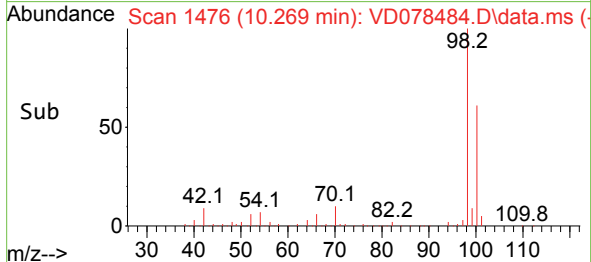
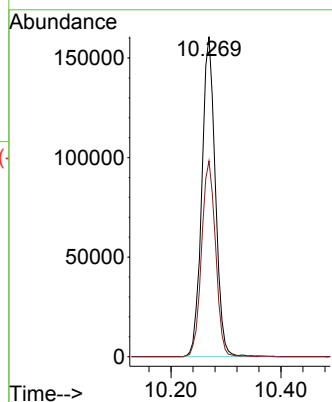
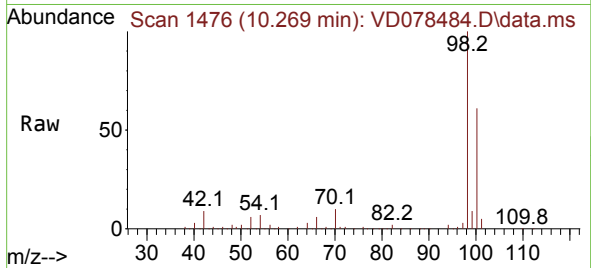




#50  
Toluene-d8  
Concen: 51.209 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

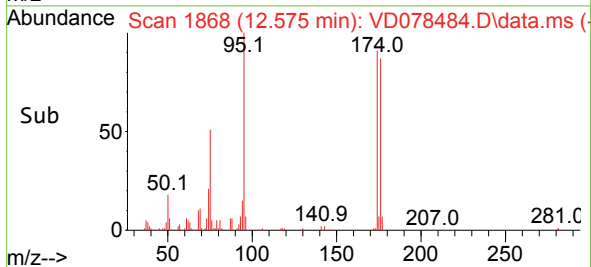
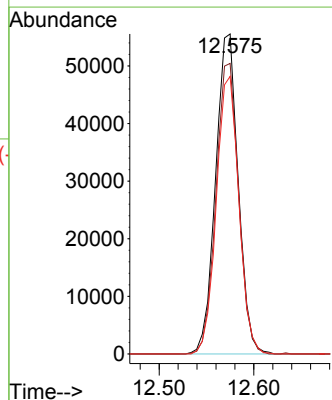
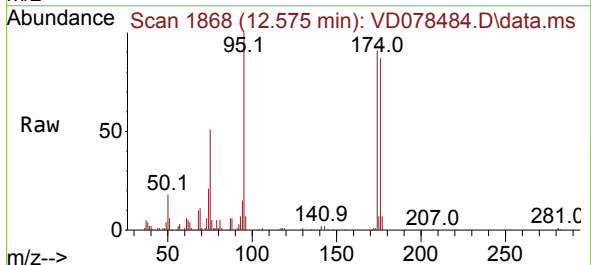
Instrument :  
MSVOA\_D  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

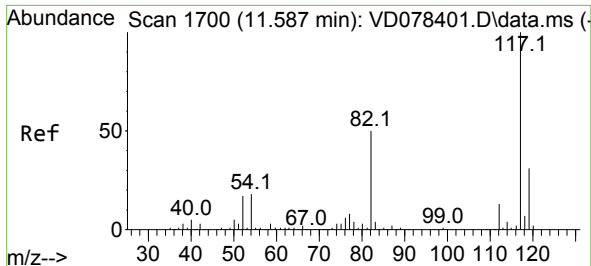
Tgt Ion: 98 Resp: 274870  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 59.071 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.000 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

Tgt Ion: 95 Resp: 92269  
Ion Ratio Lower Upper  
95 100  
174 90.8 0.0 201.8  
176 86.4 0.0 191.8

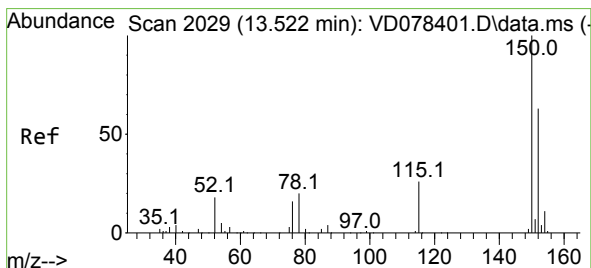
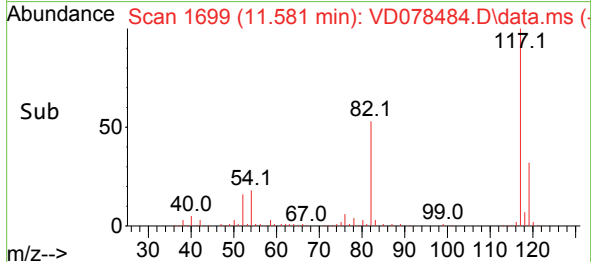
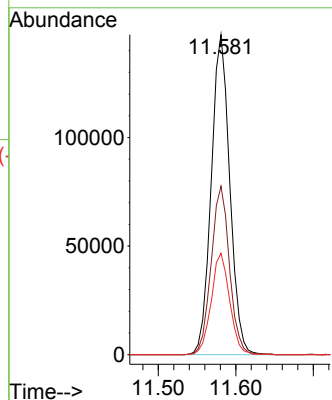
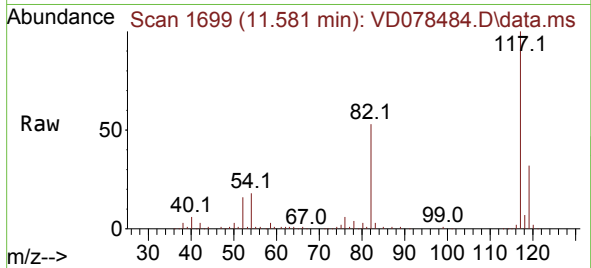




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

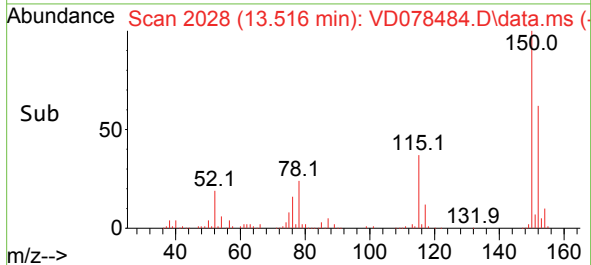
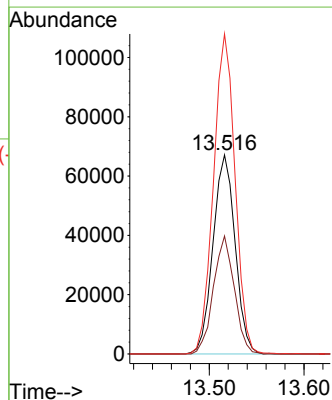
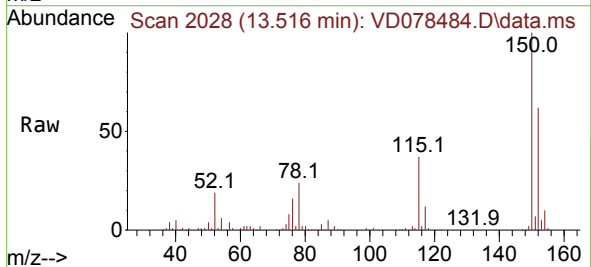
Instrument :  
MSVOA\_D  
ClientSampleId :  
20240766-AMENDED-COMP-39N-N-3-01

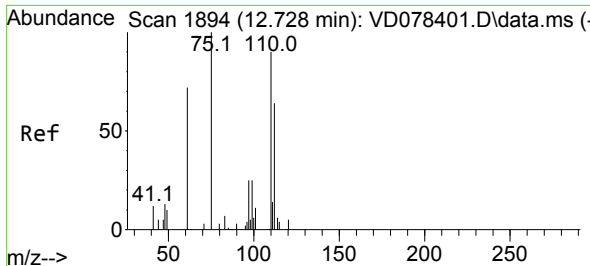
Tgt Ion:117 Resp: 244694  
Ion Ratio Lower Upper  
117 100  
82 52.7 38.3 57.5  
119 31.7 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.006 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

Tgt Ion:152 Resp: 108997  
Ion Ratio Lower Upper  
152 100  
115 56.0 27.1 81.3  
150 156.8 0.0 353.6

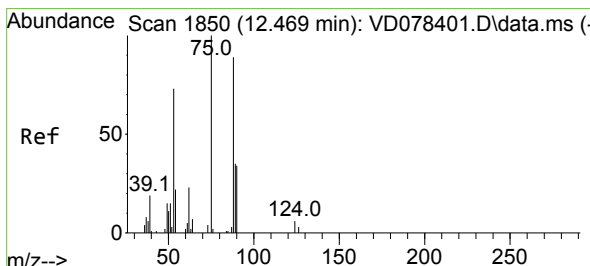
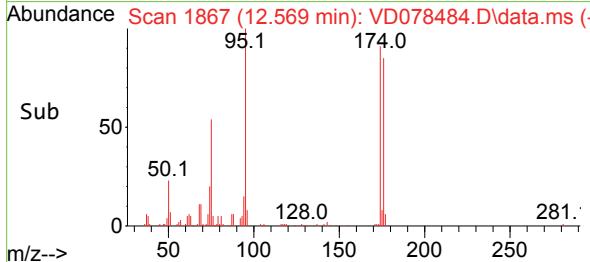
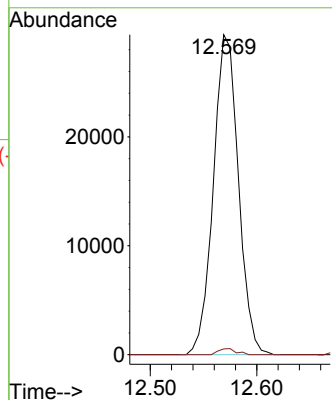
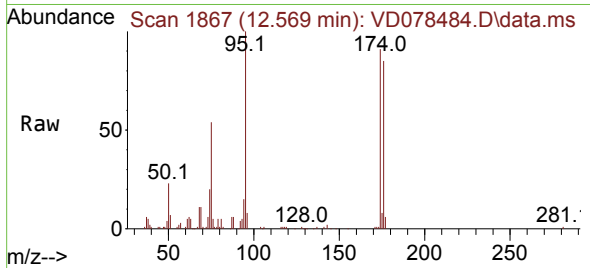




#76  
1,2,3-Trichloropropane  
Concen: 51.837 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.159 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

Instrument : MSVOA\_D  
ClientSampleId : 20240766-AMENDED-COMP-39N-N-3-01

Tgt Ion: 75 Resp: 47967  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 107.614 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.100 min  
Lab File: VD078484.D  
Acq: 20 Feb 2024 15:37

Tgt Ion: 75 Resp: 47967  
Ion Ratio Lower Upper  
75 100  
53 0.0 63.0 94.4#  
89 0.0 37.9 56.9#

