

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122123\  
 Data File : VD078032.D  
 Acq On : 21 Dec 2023 18:06  
 Operator : RP/MD  
 Sample : 05877-03  
 Misc : 5.79G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 22 05:27:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 14:48:10 2023  
 Response via : Initial Calibration

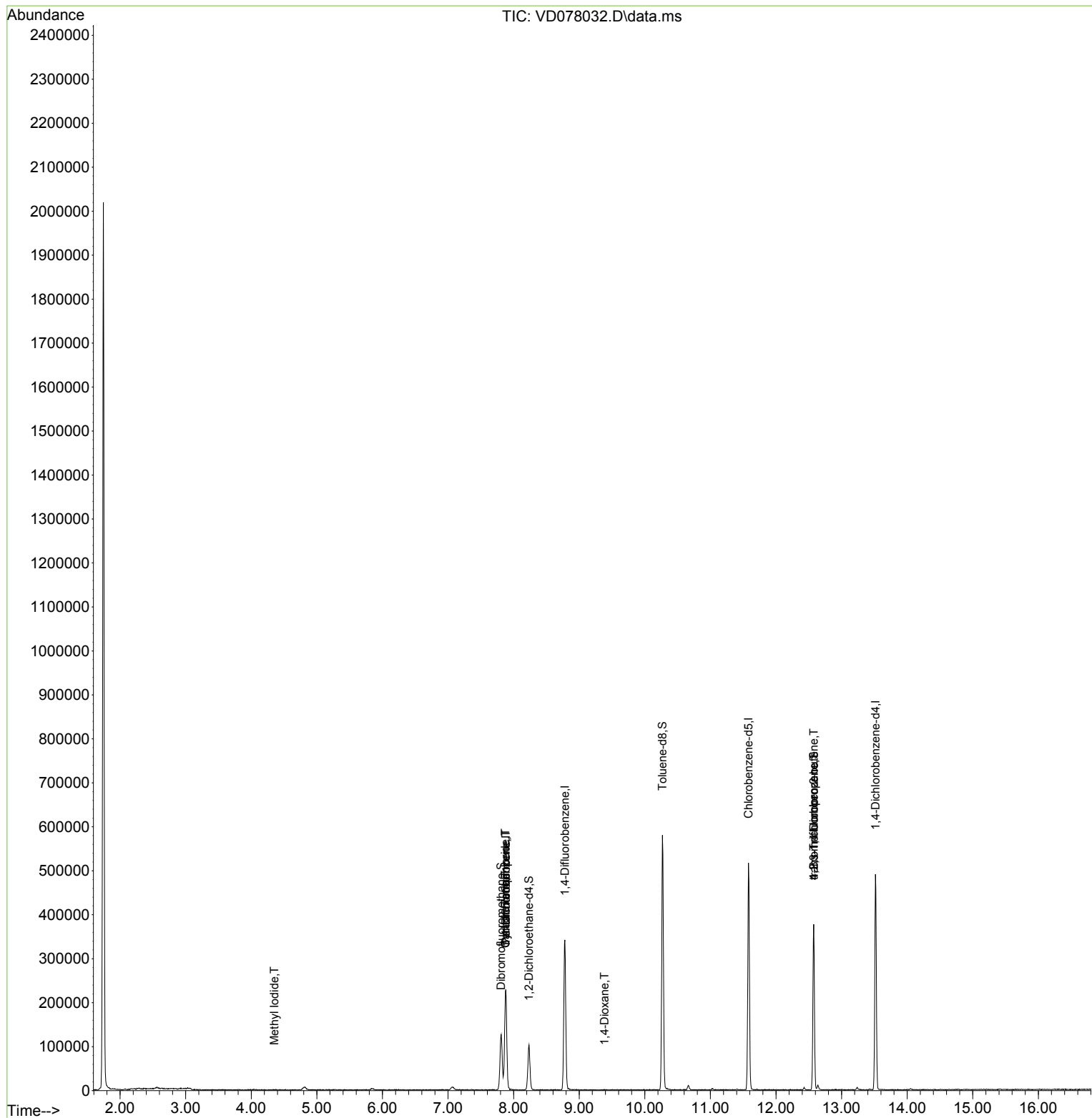
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.881  | 168   | 174609   | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 307015   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 298599   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 127978   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 76821    | 37.337    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 74.680%  |
| 35) Dibromofluoromethane      | 7.810  | 113   | 93204    | 43.340    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 86.680%  |
| 50) Toluene-d8                | 10.269 | 98    | 404993   | 47.020    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 94.040%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 108754   | 42.233    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 84.460%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 10) Methyl Iodide             | 4.352  | 142   | 58       | 6.768     | ug/l   | # 46     |
| 11) Tert butyl alcohol        | 5.052  | 59    | 181      | Below Cal | #      | 26       |
| 16) Acetone                   | 4.040  | 43    | 1305     | Below Cal |        | 89       |
| 20) Methylene Chloride        | 4.811  | 84    | 3286     | Below Cal | #      | 91       |
| 25) 2-Butanone                | 7.069  | 43    | 91       | Below Cal | #      | 37       |
| 31) Cyclohexane               | 7.875  | 56    | 4533     | 1.239     | ug/l   | # 55     |
| 36) 1,1-Dichloropropene       | 7.881  | 75    | 14911    | 4.335     | ug/l   | # 46     |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 17772    | 5.182     | ug/l   | # 14     |
| 49) 1,4-Dioxane               | 9.387  | 88    | 61       | 4.892     | ug/l   | # 1      |
| 65) Chlorobenzene             | 11.604 | 112   | 58       | Below Cal | #      | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 58997    | 53.079    | ug/l   | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 58997    | 107.542   | ug/l   | # 17     |
| 88) 1,4-Dichlorobenzene       | 13.522 | 146   | 116      | Below Cal | #      | 1        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.392 | 75    | 54       | Below Cal | #      | 1        |
| -----                         |        |       |          |           |        |          |

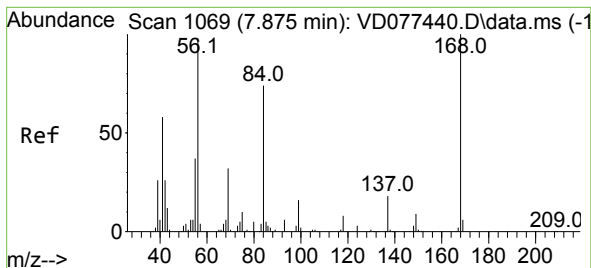
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122123\  
Data File : VD078032.D  
Acq On : 21 Dec 2023 18:06  
Operator : RP/MD  
Sample : 05877-03  
Misc : 5.79G/5.0ml/MSVOA\_D/SOIL/A  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 22 05:27:40 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 14 14:48:10 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD078032.D

Acq: 21 Dec 2023 18:06

Instrument :

MSVOA\_D

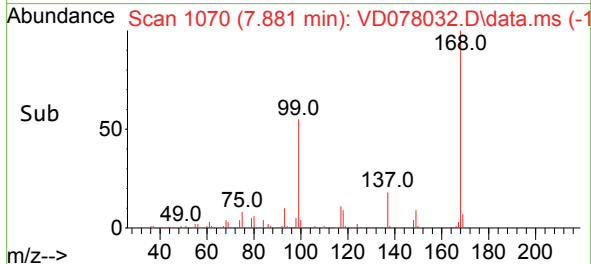
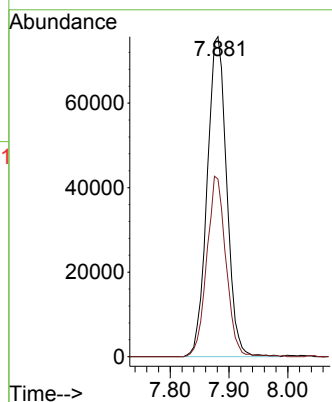
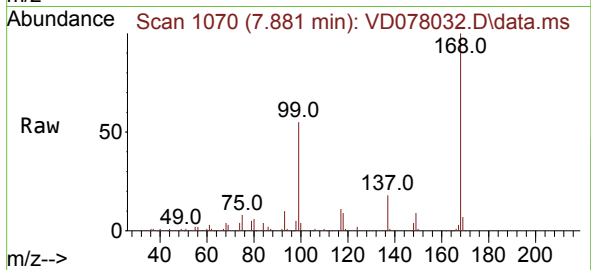
ClientSampleId :

Tgt Ion:168 Resp: 174609

Ion Ratio Lower Upper

168 100

99 55.5 36.7 55.1#



#10

Methyl Iodide

Concen: 6.768 ug/l

RT: 4.352 min Scan# 470

Delta R.T. 0.183 min

Lab File: VD078032.D

Acq: 21 Dec 2023 18:06

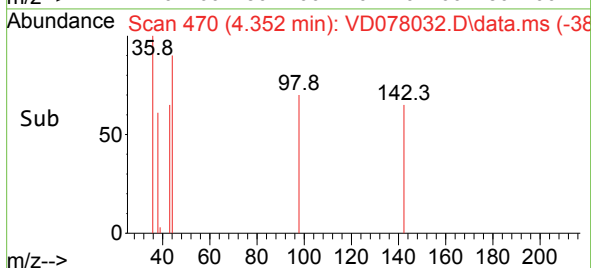
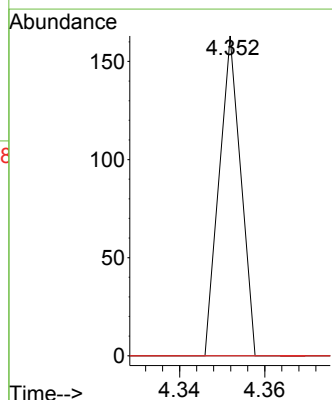
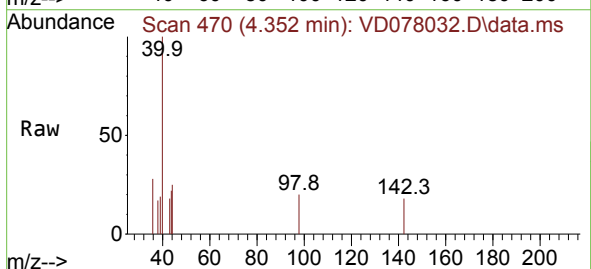
Tgt Ion:142 Resp: 58

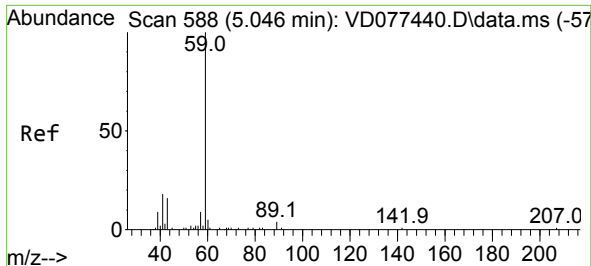
Ion Ratio Lower Upper

142 100

127 0.0 29.4 44.0#

141 0.0 11.1 16.7#

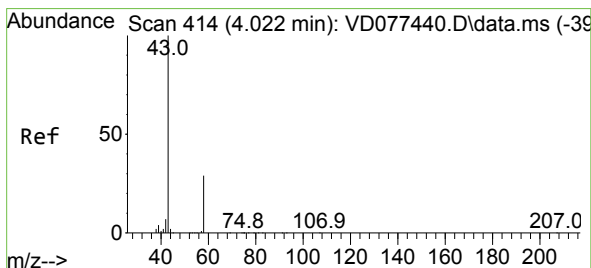
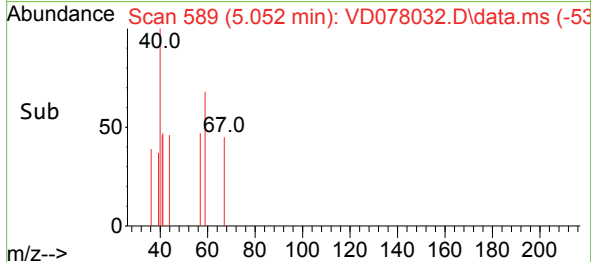
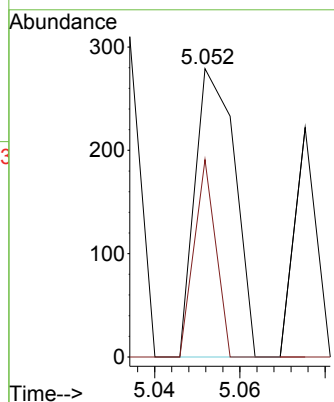
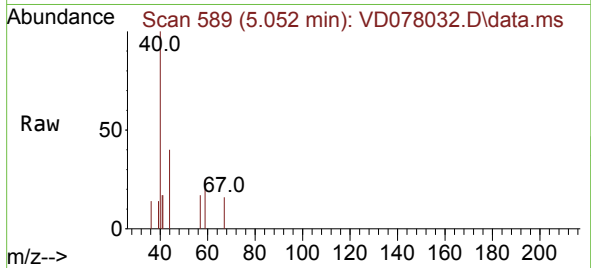




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.052 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

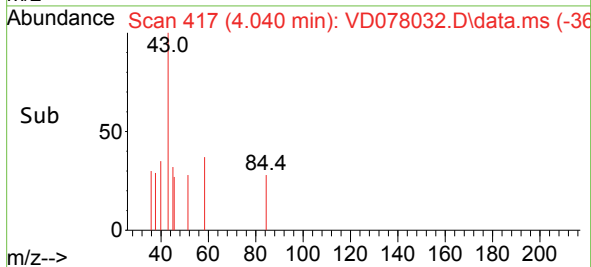
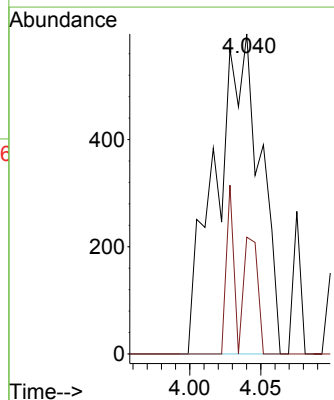
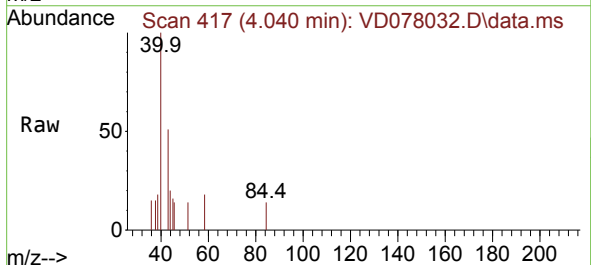
Instrument :  
MSVOA\_D  
ClientSampleId :

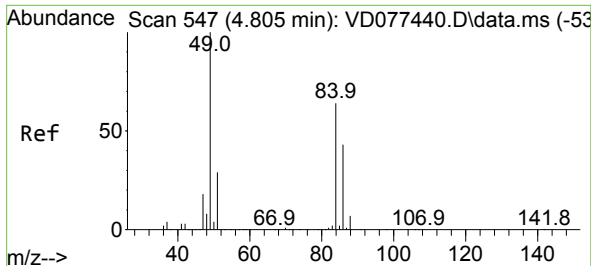
Tgt Ion: 59 Resp: 181  
Ion Ratio Lower Upper  
59 100  
57 37.0 7.8 11.8#



#16  
Acetone  
Concen: Below Cal  
RT: 4.040 min Scan# 417  
Delta R.T. 0.018 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

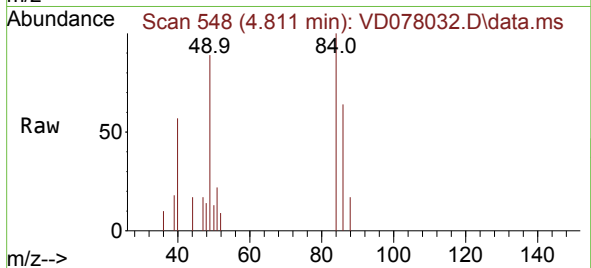
Tgt Ion: 43 Resp: 1305  
Ion Ratio Lower Upper  
43 100  
58 36.5 34.7 52.1



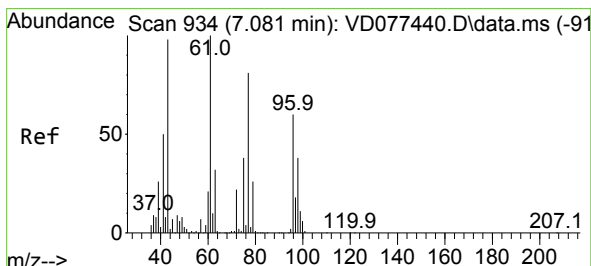
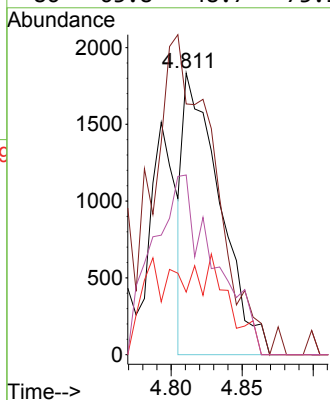
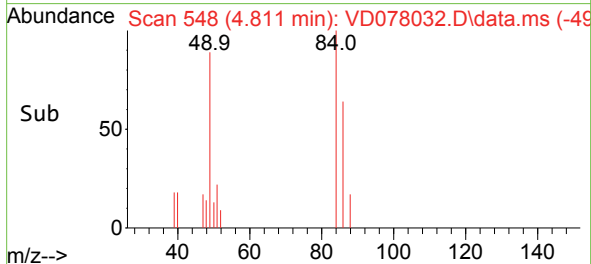


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.811 min Scan# 54  
Delta R.T. 0.006 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

Instrument :  
MSVOA\_D  
ClientSampleId :

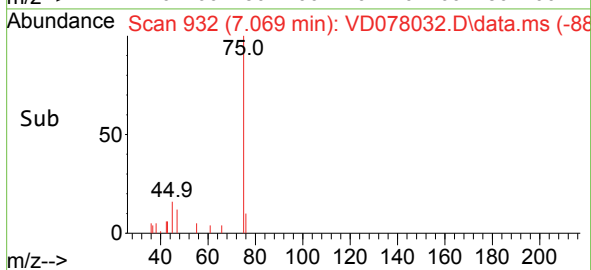
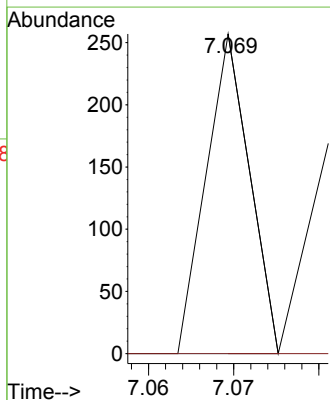
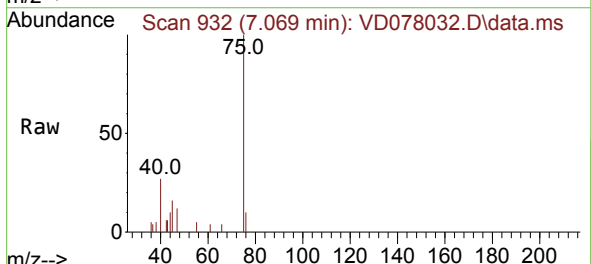


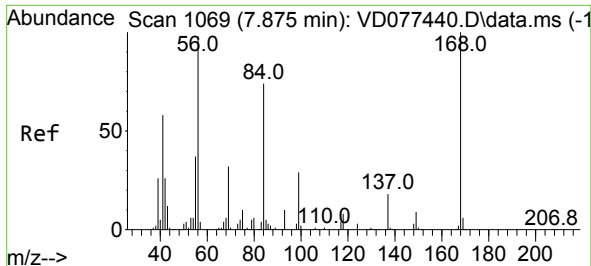
Tgt Ion: 84 Resp: 3286  
Ion Ratio Lower Upper  
84 100  
49 79.2 71.4 107.2  
51 22.2 24.5 36.7#  
86 63.8 48.7 73.1



#25  
2-Butanone  
Concen: Below Cal  
RT: 7.069 min Scan# 932  
Delta R.T. -0.012 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

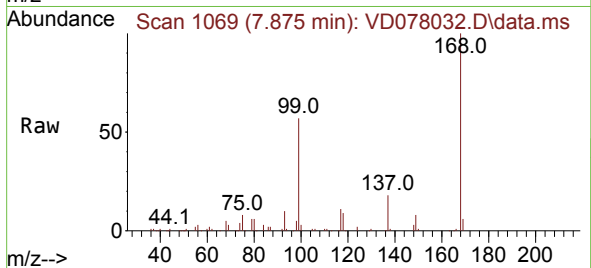
Tgt Ion: 43 Resp: 91  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.7 46.1#



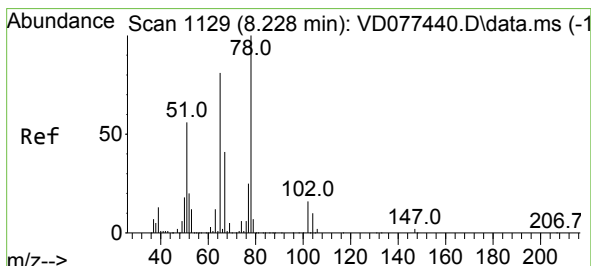
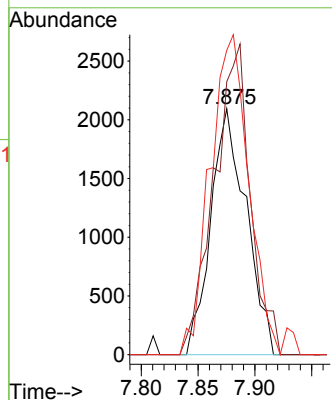
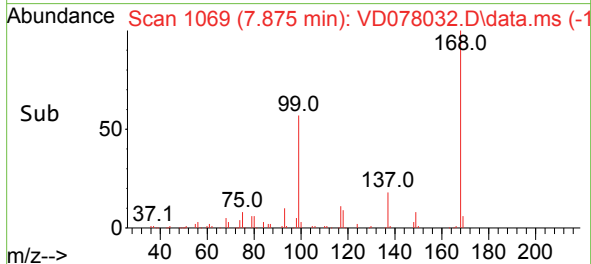


#31  
Cyclohexane  
Concen: 1.239 ug/l  
RT: 7.875 min Scan# 110  
Delta R.T. 0.000 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

Instrument :  
MSVOA\_D  
ClientSampleId :

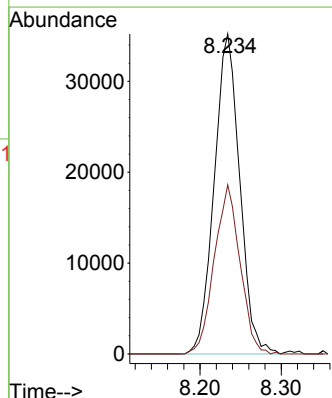
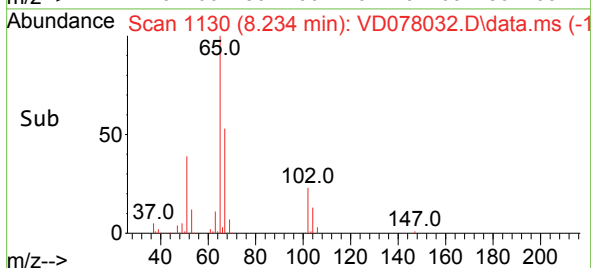
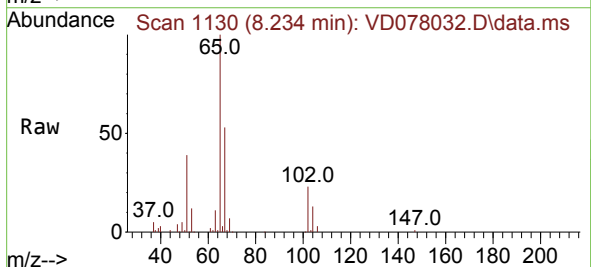


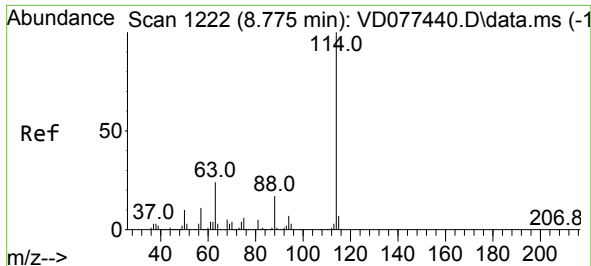
Tgt Ion: 56 Resp: 4533  
Ion Ratio Lower Upper  
56 100  
69 111.0 28.6 43.0#  
84 123.7 84.8 127.2



#33  
1,2-Dichloroethane-d4  
Concen: 37.337 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

Tgt Ion: 65 Resp: 76821  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD078032.D

Acq: 21 Dec 2023 18:06

Instrument :

MSVOA\_D

ClientSampleId :

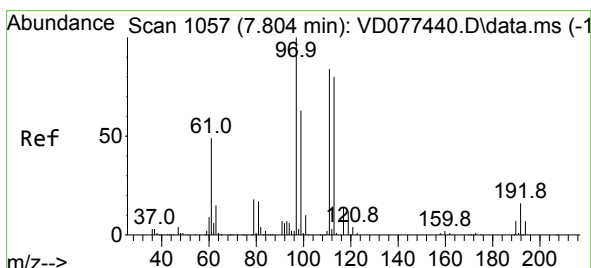
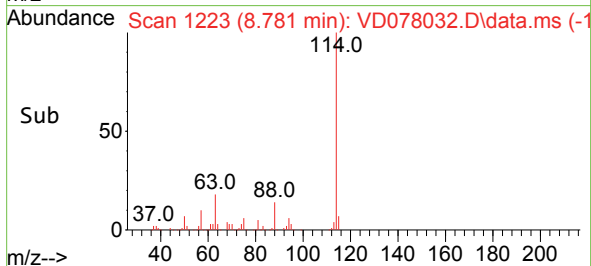
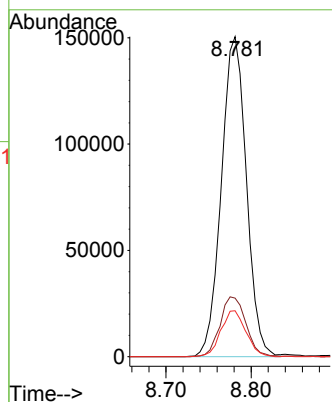
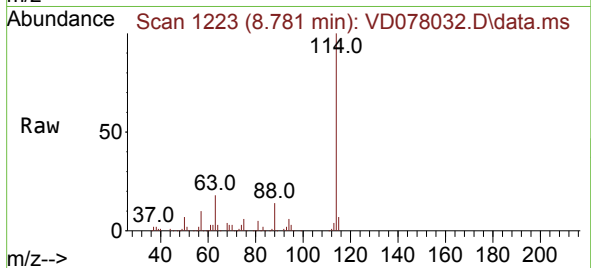
Tgt Ion:114 Resp: 307015

Ion Ratio Lower Upper

114 100

63 18.3 0.0 33.4

88 14.3 0.0 26.2



#35

Dibromofluoromethane

Concen: 43.340 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD078032.D

Acq: 21 Dec 2023 18:06

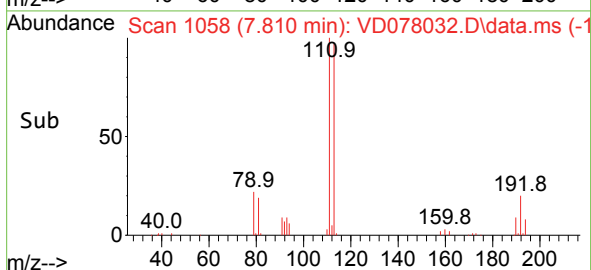
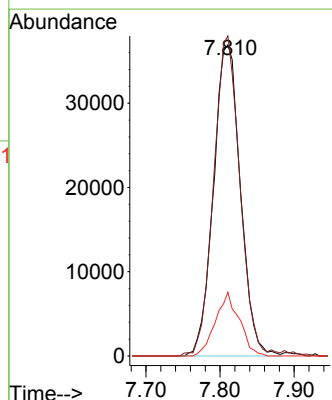
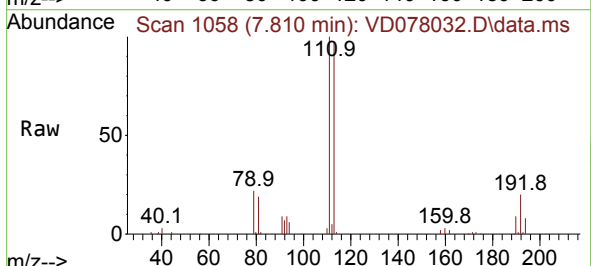
Tgt Ion:113 Resp: 93204

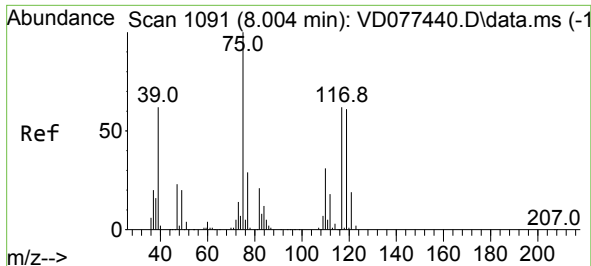
Ion Ratio Lower Upper

113 100

111 100.2 84.7 127.1

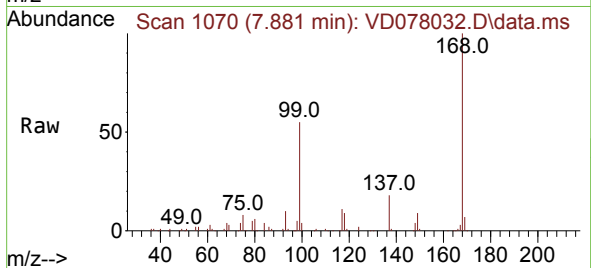
192 18.1 16.8 25.2



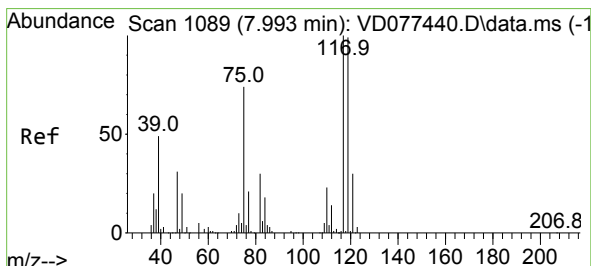
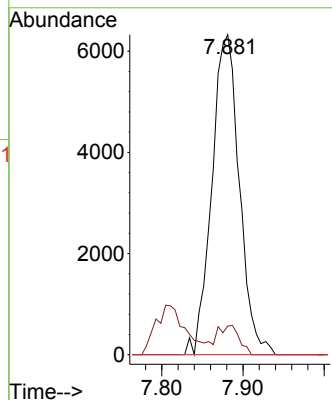
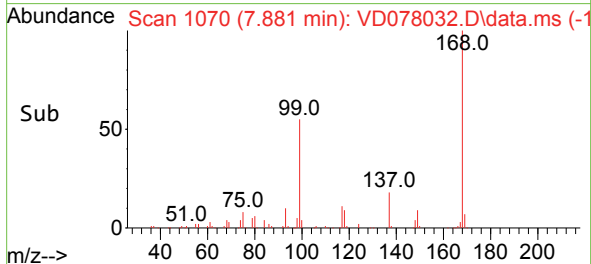


#36  
 1,1-Dichloropropene  
 Concen: 4.335 ug/l  
 RT: 7.881 min Scan# 1069  
 Delta R.T. -0.123 min  
 Lab File: VD078032.D  
 Acq: 21 Dec 2023 18:06

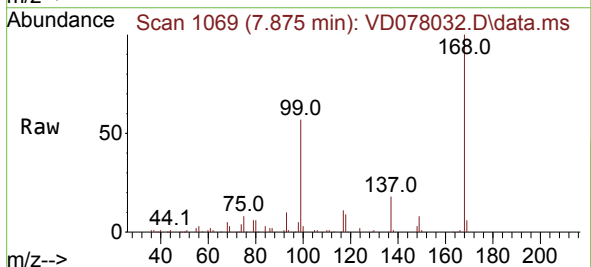
Instrument :  
 MSVOA\_D  
 ClientSampleId :



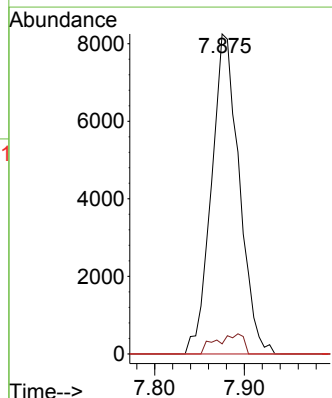
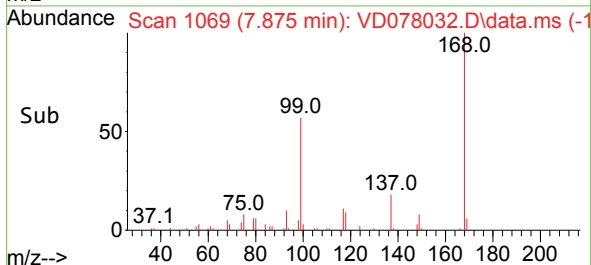
Tgt Ion: 75 Resp: 14911  
 Ion Ratio Lower Upper  
 75 100  
 110 7.9 19.9 59.6#  
 77 0.0 24.7 37.1#

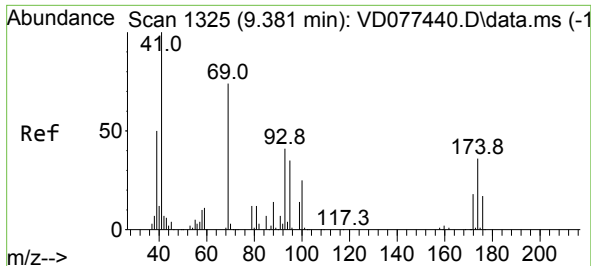


#38  
 Carbon Tetrachloride  
 Concen: 5.182 ug/l  
 RT: 7.875 min Scan# 1069  
 Delta R.T. -0.118 min  
 Lab File: VD078032.D  
 Acq: 21 Dec 2023 18:06



Tgt Ion: 117 Resp: 17772  
 Ion Ratio Lower Upper  
 117 100  
 119 3.1 78.0 117.0#  
 121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 4.892 ug/l

RT: 9.387 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD078032.D

Acq: 21 Dec 2023 18:06

Instrument :

MSVOA\_D

ClientSampleId :

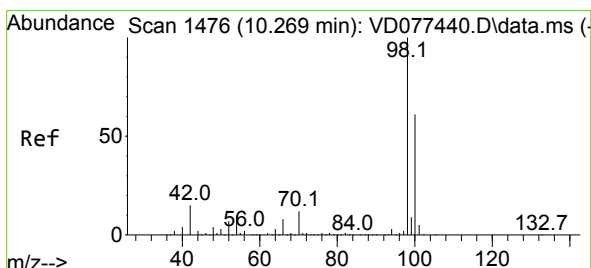
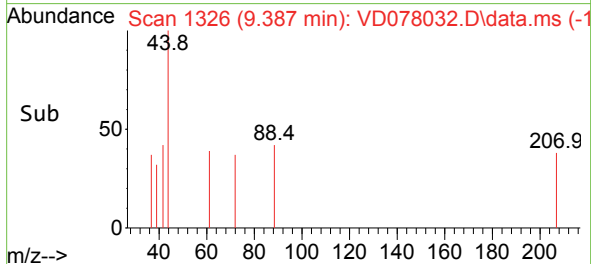
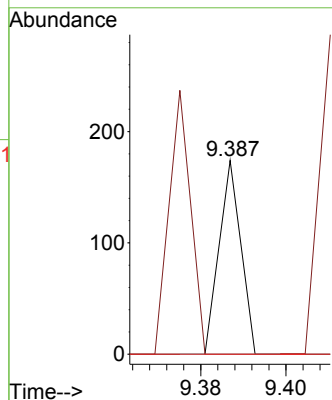
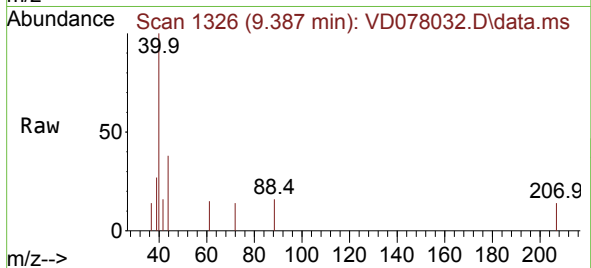
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 137.7 19.0 28.6#

58 0.0 43.5 65.3#



#50

Toluene-d8

Concen: 47.020 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD078032.D

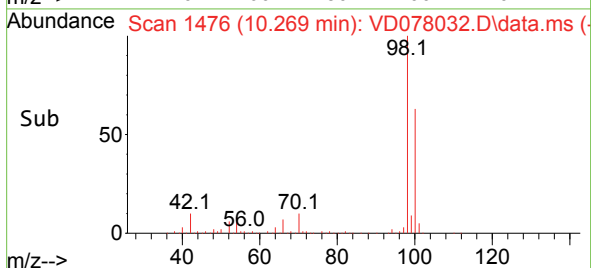
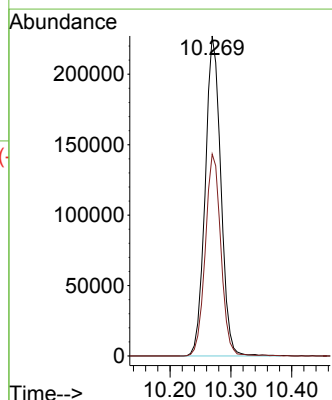
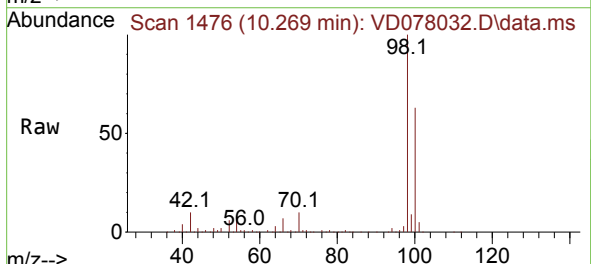
Acq: 21 Dec 2023 18:06

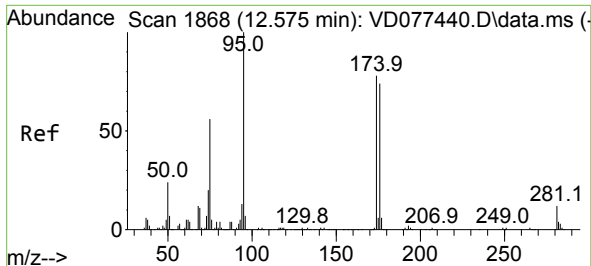
Tgt Ion: 98 Resp: 404993

Ion Ratio Lower Upper

98 100

100 62.8 50.3 75.5

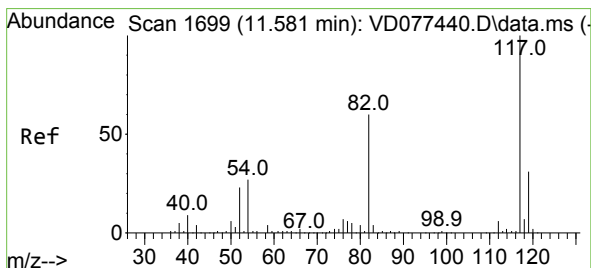
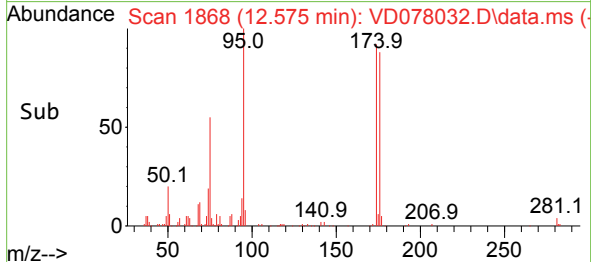
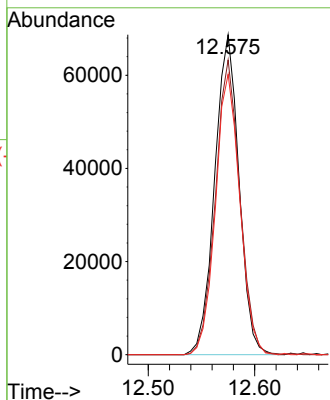
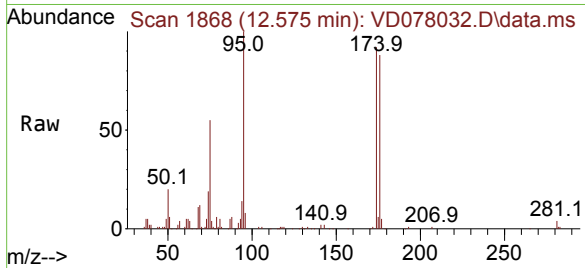




#62  
4-Bromofluorobenzene  
Concen: 42.233 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

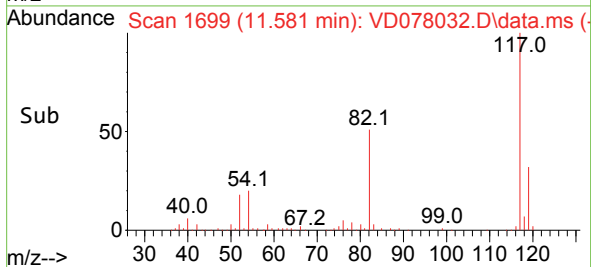
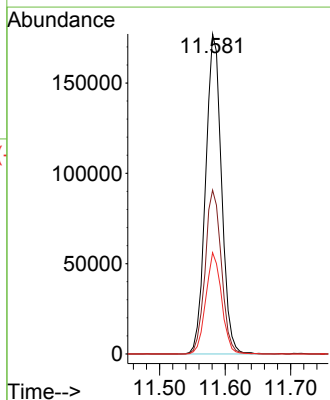
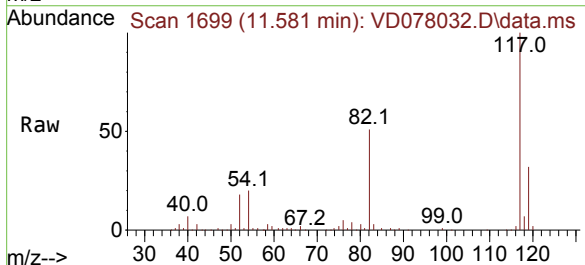
Instrument :  
MSVOA\_D  
ClientSampleId :

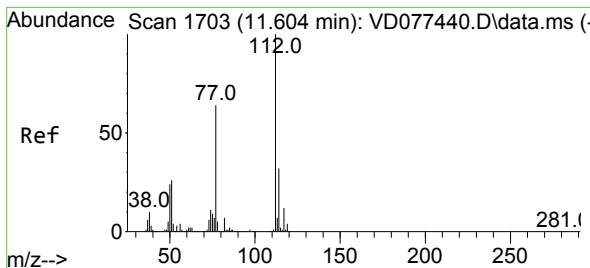
Tgt Ion: 95 Resp: 108754  
Ion Ratio Lower Upper  
95 100  
174 92.6 0.0 201.8  
176 87.8 0.0 191.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

Tgt Ion: 117 Resp: 298599  
Ion Ratio Lower Upper  
117 100  
82 51.2 38.3 57.5  
119 31.7 25.0 37.4





#65

Chlorobenzene

Concen: Below Cal

RT: 11.604 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD078032.D

Acq: 21 Dec 2023 18:06

Instrument :

MSVOA\_D

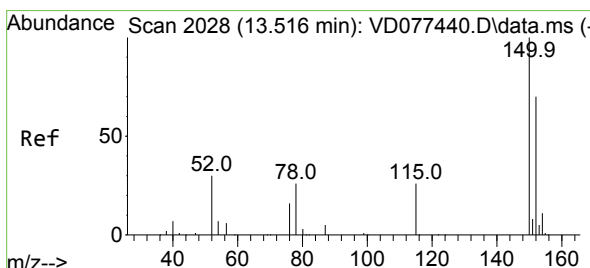
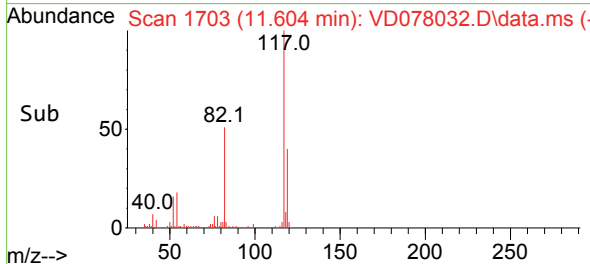
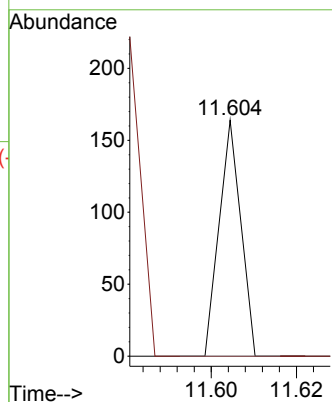
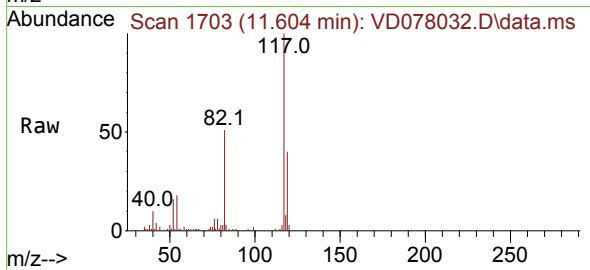
ClientSampleId :

Tgt Ion:112 Resp: 58

Ion Ratio Lower Upper

112 100

114 167.7 25.1 37.7#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. 0.000 min

Lab File: VD078032.D

Acq: 21 Dec 2023 18:06

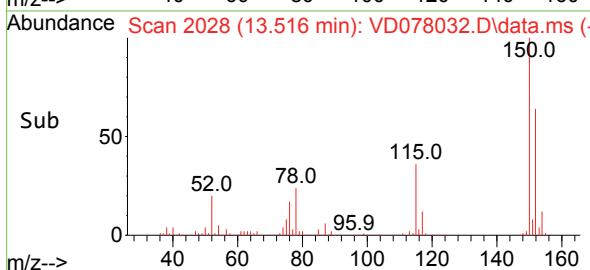
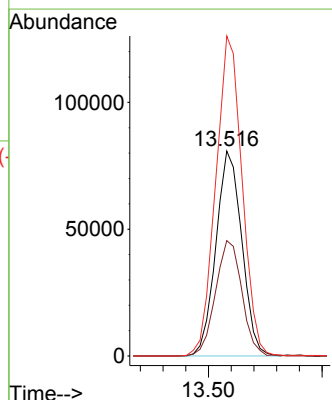
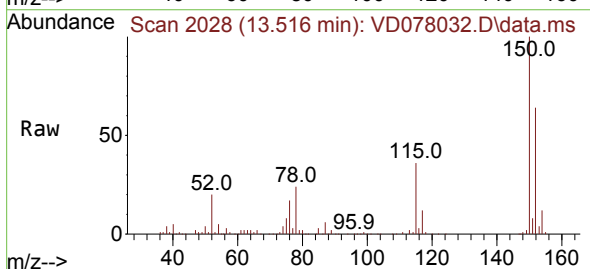
Tgt Ion:152 Resp: 127978

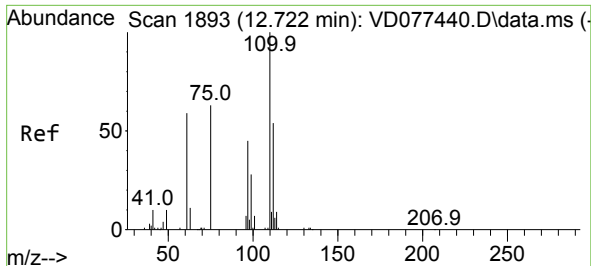
Ion Ratio Lower Upper

152 100

115 57.5 27.1 81.3

150 158.9 0.0 353.6

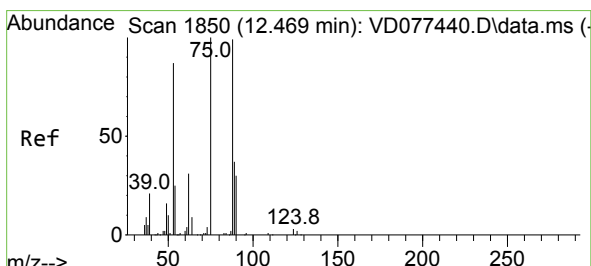
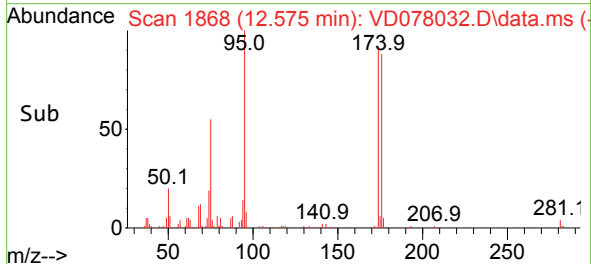
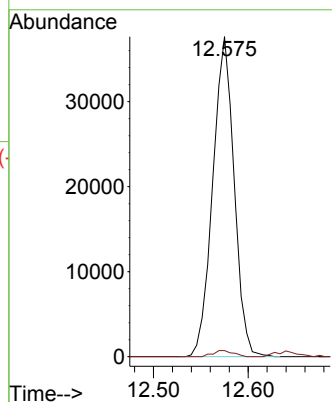
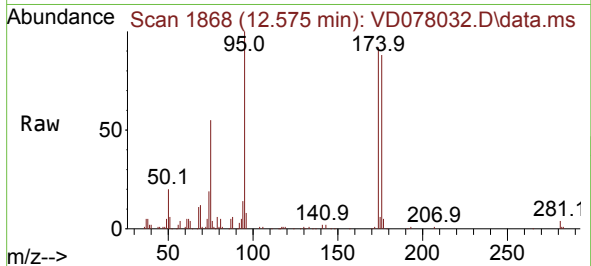




#76  
1,2,3-Trichloropropane  
Concen: 53.079 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.147 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

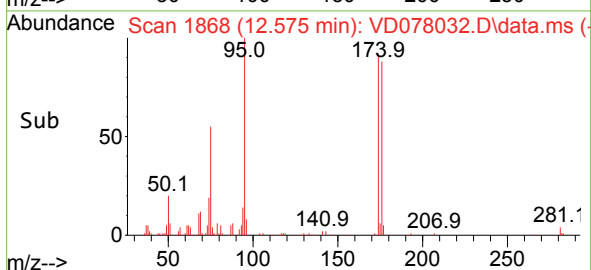
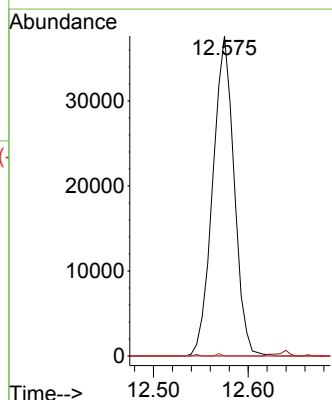
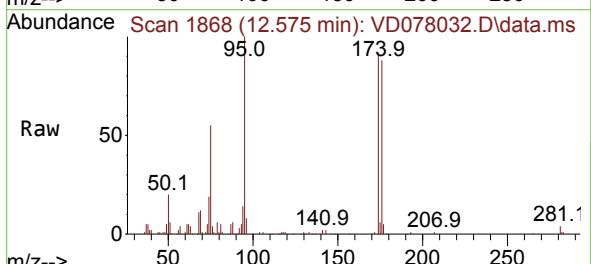
Instrument :  
MSVOA\_D  
ClientSampleId :

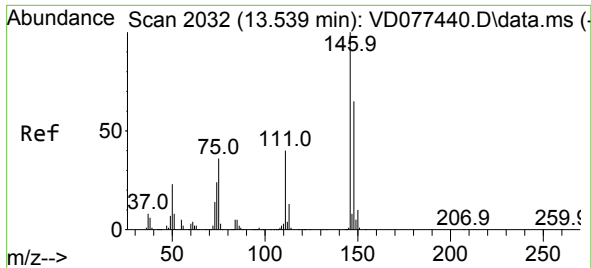
Tgt Ion: 75 Resp: 58997  
Ion Ratio Lower Upper  
75 100  
77 1.9 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 107.542 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD078032.D  
Acq: 21 Dec 2023 18:06

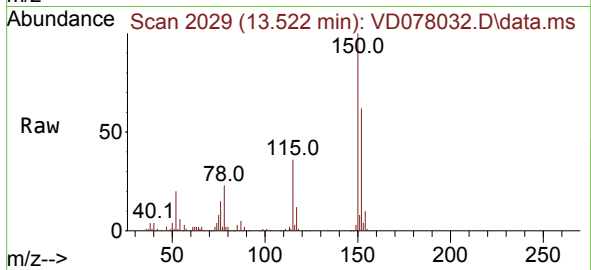
Tgt Ion: 75 Resp: 58997  
Ion Ratio Lower Upper  
75 100  
53 0.0 63.0 94.4#  
89 0.2 37.9 56.9#





#88  
 1,4-Dichlorobenzene  
 Concen: Below Cal  
 RT: 13.522 min Scan# 2032  
 Delta R.T. -0.017 min  
 Lab File: VD078032.D  
 Acq: 21 Dec 2023 18:06

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion:146 Resp: 116  
 Ion Ratio Lower Upper  
 146 100  
 111 1382.8 17.4 52.3#  
 148 499.1 31.7 95.1#

