

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110123\  
 Data File : VD077473.D  
 Acq On : 01 Nov 2023 11:16  
 Operator : JC/SY  
 Sample : VD1101SBL01  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 02 00:52:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 04:19:17 2023  
 Response via : Initial Calibration

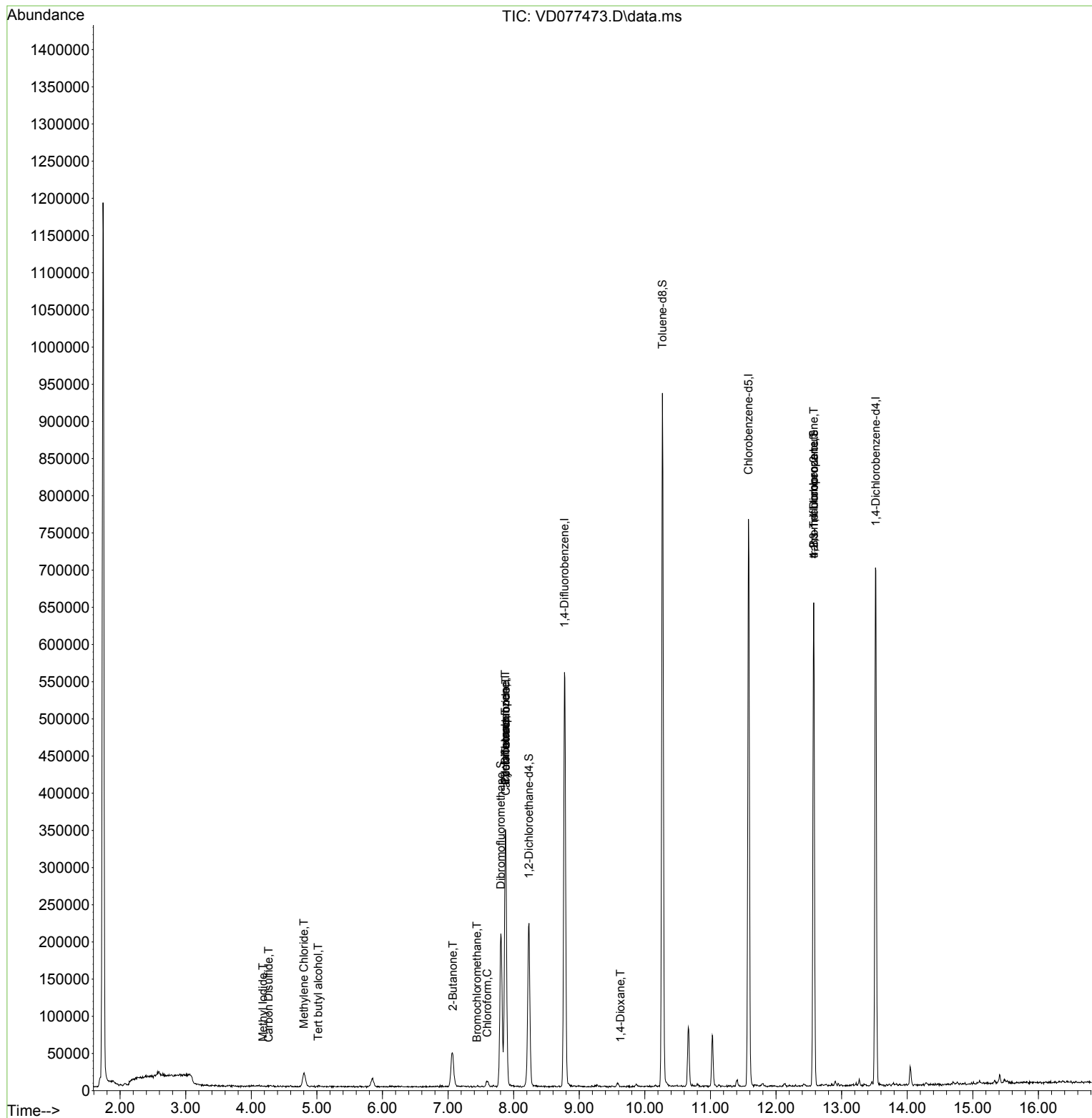
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 252473   | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.775  | 114   | 457360   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 398108   | 50.000   | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 175885   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 171666   | 48.084   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | =      | 96.160%  |
| 35) Dibromofluoromethane      | 7.804  | 113   | 150026   | 47.460   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | =      | 94.920%  |
| 50) Toluene-d8                | 10.269 | 98    | 602388   | 49.060   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | =      | 98.120%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 187793   | 45.410   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | =      | 90.820%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) Methyl Iodide             | 4.175  | 142   | 439      | 3.270    | ug/l # | 63       |
| 11) Tert butyl alcohol        | 5.022  | 59    | 660      | 2.334    | ug/l # | 50       |
| 17) Carbon Disulfide          | 4.263  | 76    | 412      | 3.805    | ug/l # | 76       |
| 20) Methylene Chloride        | 4.805  | 84    | 12560    | 1.176    | ug/l # | 67       |
| 25) 2-Butanone                | 7.075  | 43    | 4260     | 3.381    | ug/l # | 74       |
| 28) Bromochloromethane        | 7.440  | 49    | 133      | 2.148    | ug/l # | 1        |
| 30) Chloroform                | 7.599  | 83    | 7106     | 1.134    | ug/l   | 97       |
| 31) Cyclohexane               | 7.875  | 56    | 7710     | 1.381    | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 23859    | 5.091    | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.881  | 117   | 26217    | 5.936    | ug/l # | 14       |
| 49) 1,4-Dioxane               | 9.628  | 88    | 55       | 2.703    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 108805   | 50.827   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 108805   | 98.179   | ug/l # | 17       |
| -----                         |        |       |          |          |        |          |

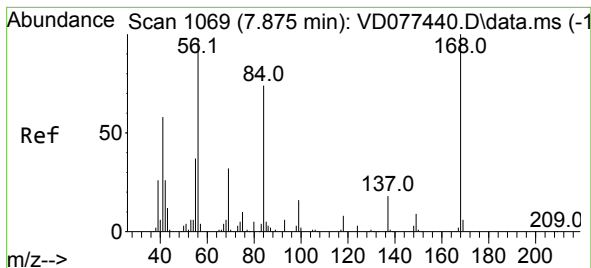
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Nov 02 00:52:48 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 31 04:19:17 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD077473.D

Acq: 01 Nov 2023 11:16

Instrument :

MSVOA\_D

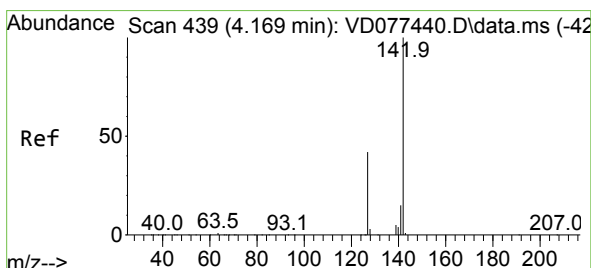
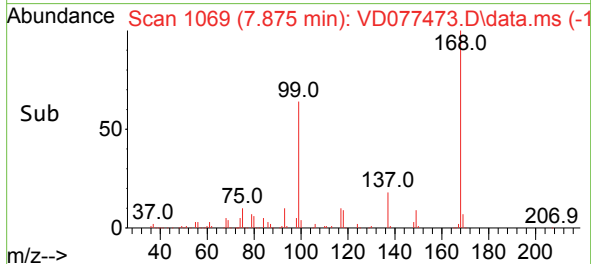
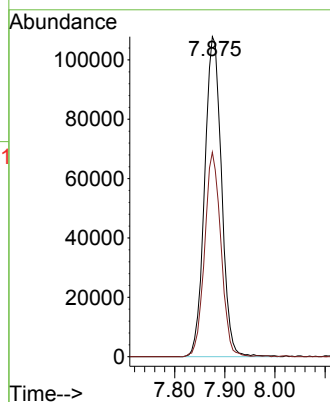
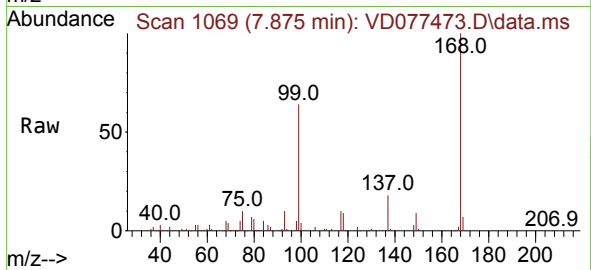
ClientSampleId :

Tgt Ion:168 Resp: 252473

Ion Ratio Lower Upper

168 100

99 63.9 36.7 55.1#



#10

Methyl Iodide

Concen: 3.270 ug/l

RT: 4.175 min Scan# 440

Delta R.T. 0.006 min

Lab File: VD077473.D

Acq: 01 Nov 2023 11:16

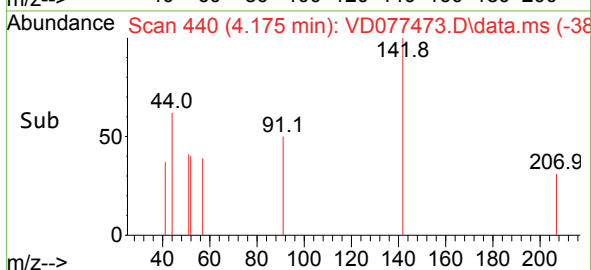
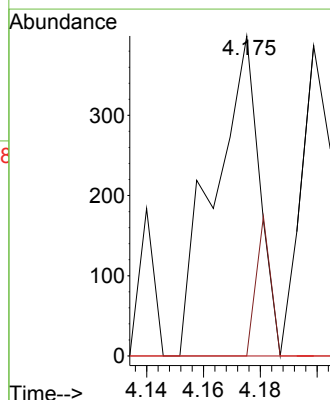
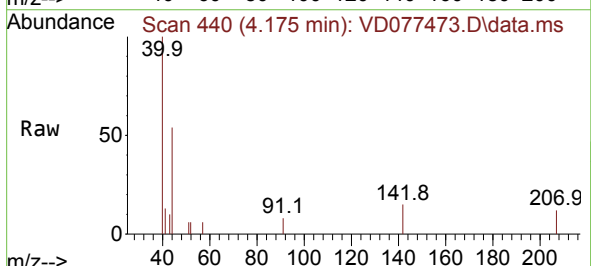
Tgt Ion:142 Resp: 439

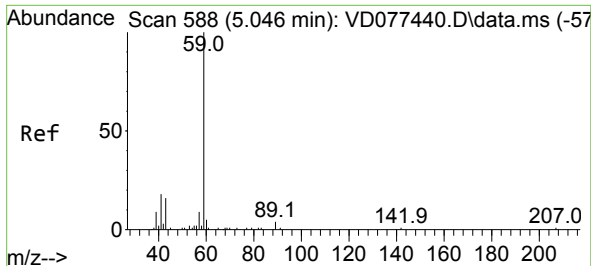
Ion Ratio Lower Upper

142 100

127 13.9 29.4 44.0#

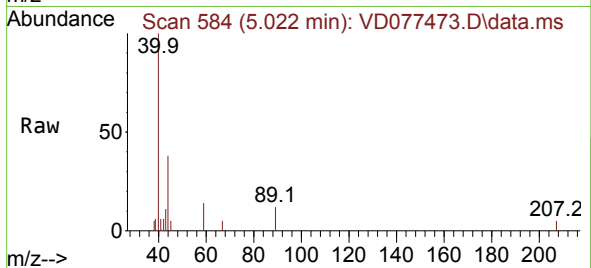
141 0.0 11.1 16.7#



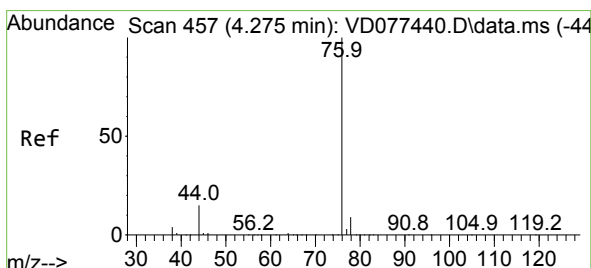
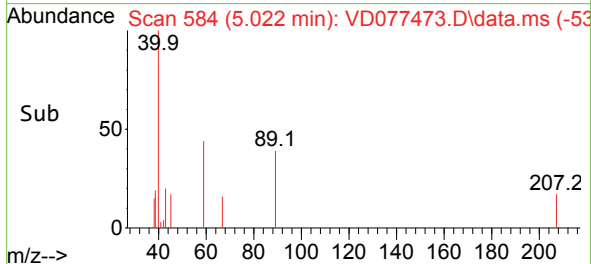
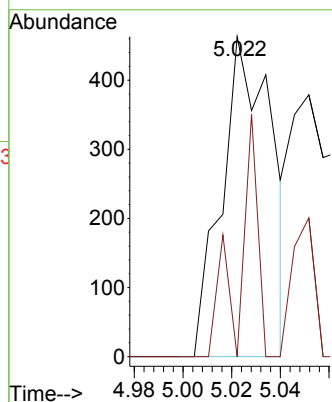


#11  
Tert butyl alcohol  
Concen: 2.334 ug/l  
RT: 5.022 min Scan# 51  
Delta R.T. -0.024 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

Instrument :  
MSVOA\_D  
ClientSampleId :

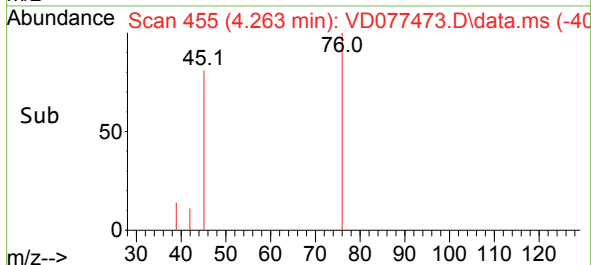
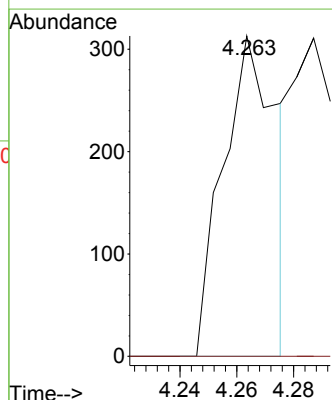
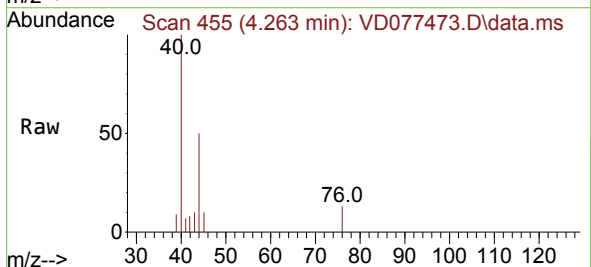


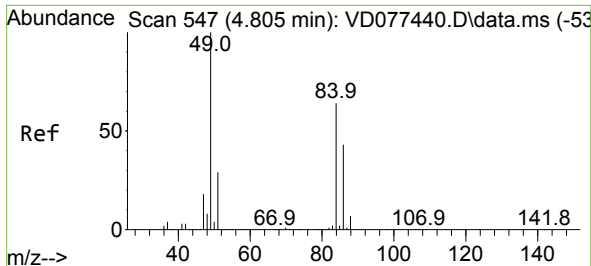
Tgt Ion: 59 Resp: 660  
Ion Ratio Lower Upper  
59 100  
57 28.2 7.8 11.8#



#17  
Carbon Disulfide  
Concen: 3.805 ug/l  
RT: 4.263 min Scan# 455  
Delta R.T. -0.012 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

Tgt Ion: 76 Resp: 412  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.8 10.2#

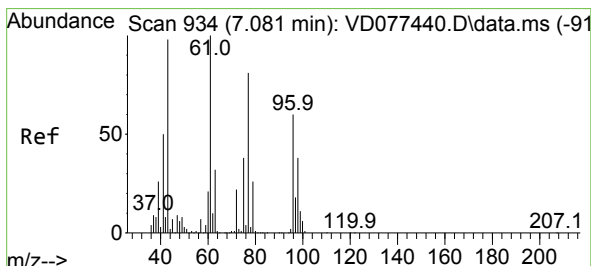
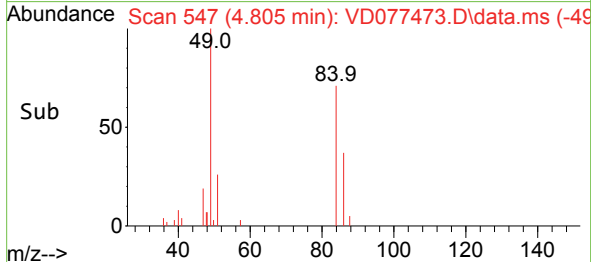
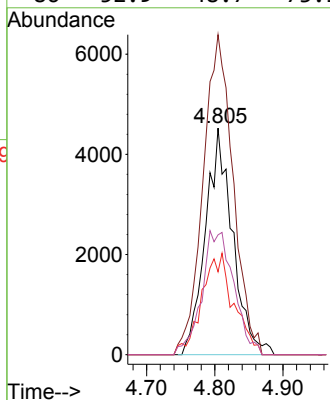
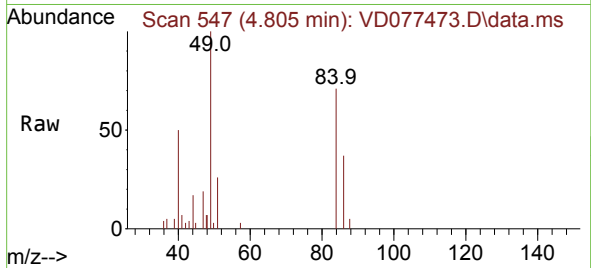




#20  
Methylene Chloride  
Concen: 1.176 ug/l  
RT: 4.805 min Scan# 547  
Delta R.T. -0.000 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

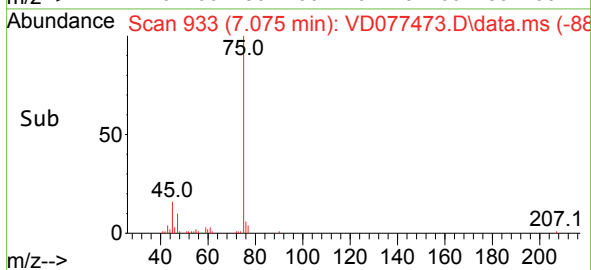
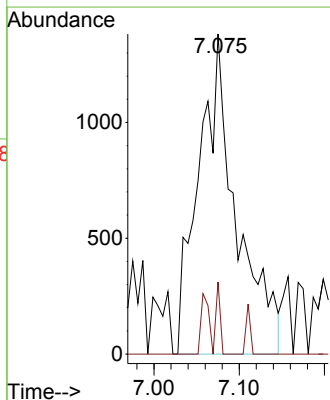
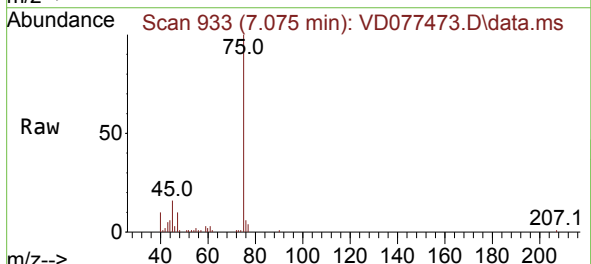
Instrument :  
MSVOA\_D  
ClientSampleId :

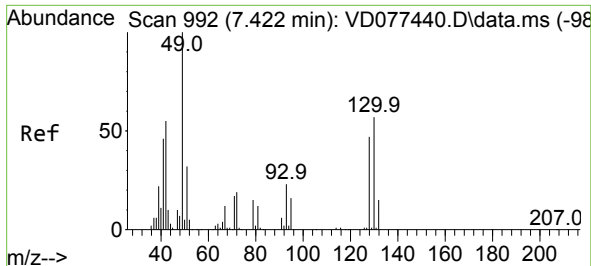
Tgt Ion: 84 Resp: 12560  
Ion Ratio Lower Upper  
84 100  
49 141.2 71.4 107.2#  
51 36.6 24.5 36.7  
86 52.9 48.7 73.1



#25  
2-Butanone  
Concen: 3.381 ug/l  
RT: 7.075 min Scan# 933  
Delta R.T. -0.006 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

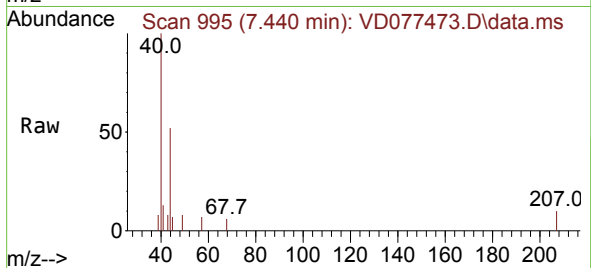
Tgt Ion: 43 Resp: 4260  
Ion Ratio Lower Upper  
43 100  
72 22.5 30.7 46.1#



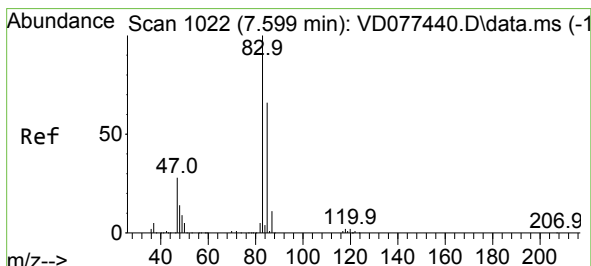
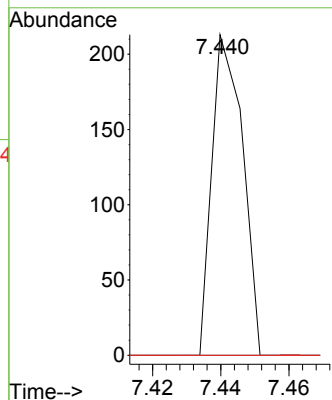
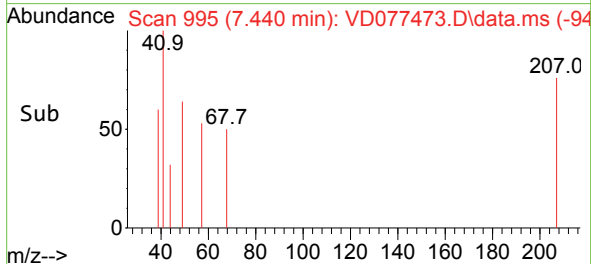


#28  
Bromochloromethane  
Concen: 2.148 ug/l  
RT: 7.440 min Scan# 995  
Delta R.T. 0.018 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

Instrument :  
MSVOA\_D  
ClientSampleId :

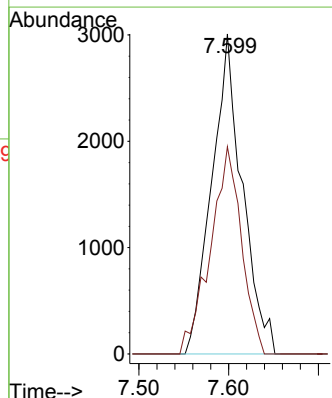
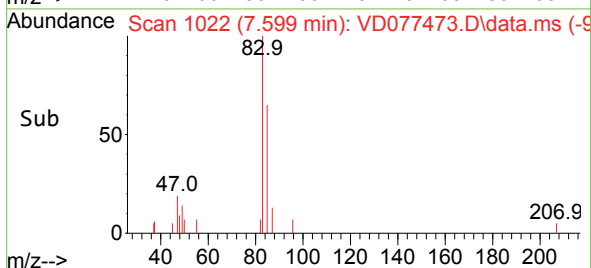
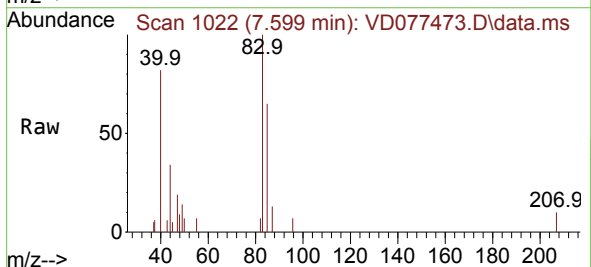


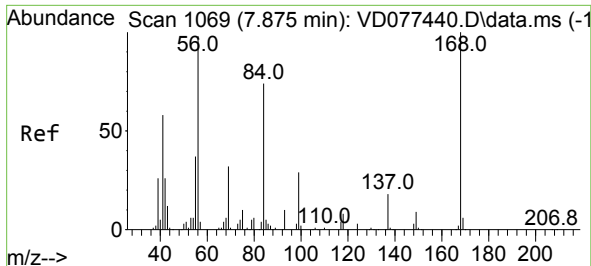
Tgt Ion: 49 Resp: 133  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 6.0  
130 0.0 83.2 124.8#



#30  
Chloroform  
Concen: 1.134 ug/l  
RT: 7.599 min Scan# 1022  
Delta R.T. 0.000 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

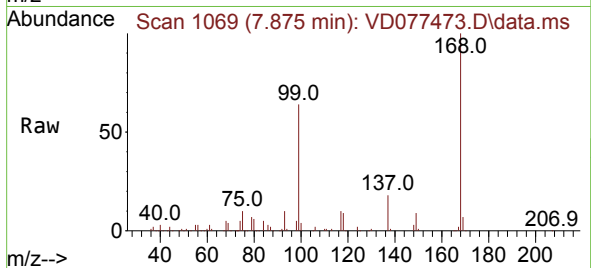
Tgt Ion: 83 Resp: 7106  
Ion Ratio Lower Upper  
83 100  
85 64.8 53.4 80.2



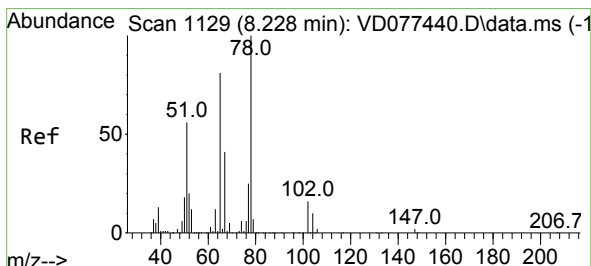
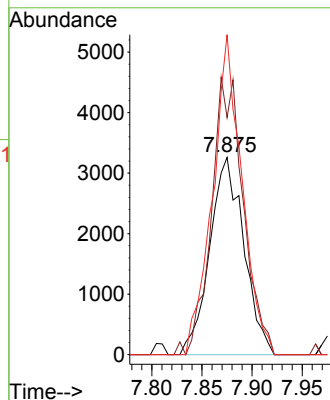
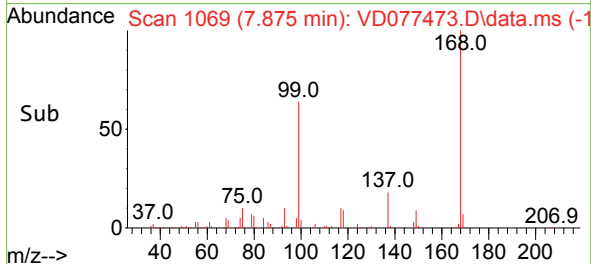


#31  
Cyclohexane  
Concen: 1.381 ug/l  
RT: 7.875 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

Instrument :  
MSVOA\_D  
ClientSampleId :

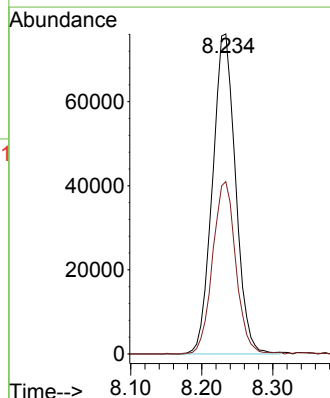
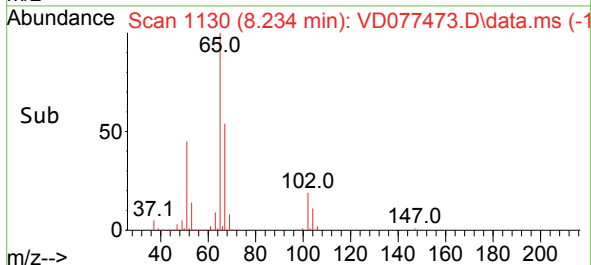
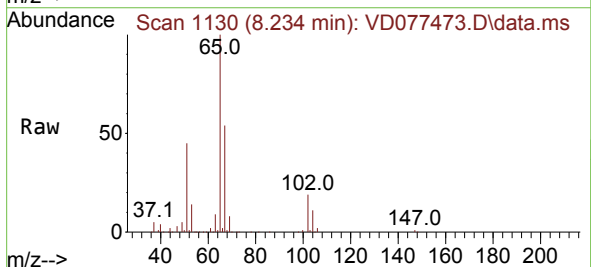


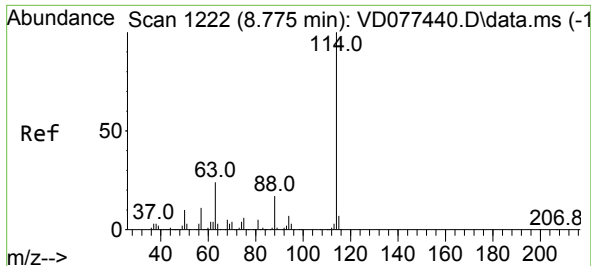
Tgt Ion: 56 Resp: 7710  
Ion Ratio Lower Upper  
56 100  
69 120.2 28.6 43.0#  
84 162.2 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 48.084 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

Tgt Ion: 65 Resp: 171666  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 115.0

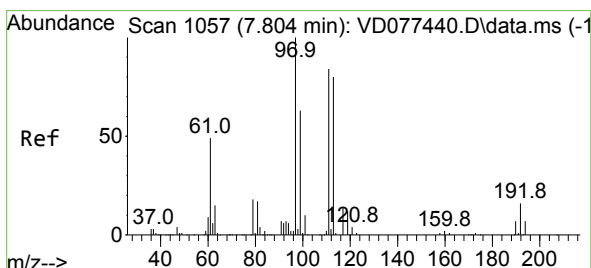
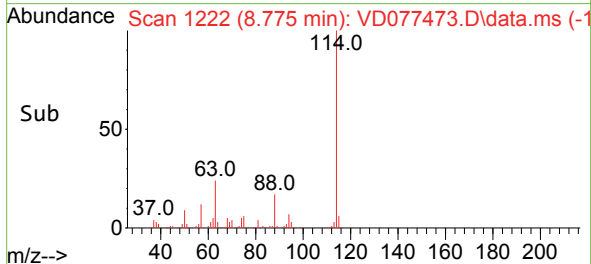
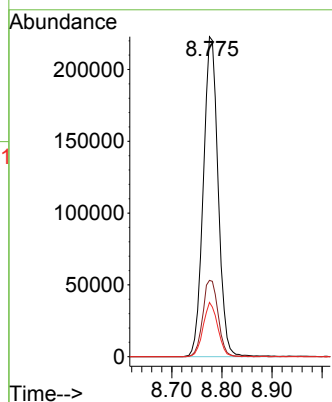
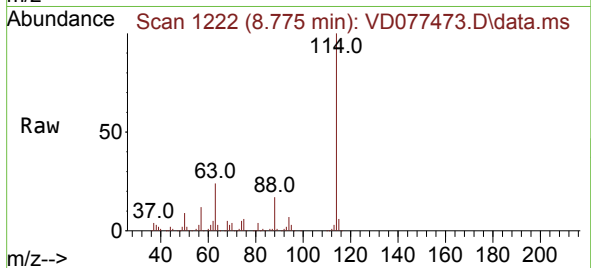




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.775 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

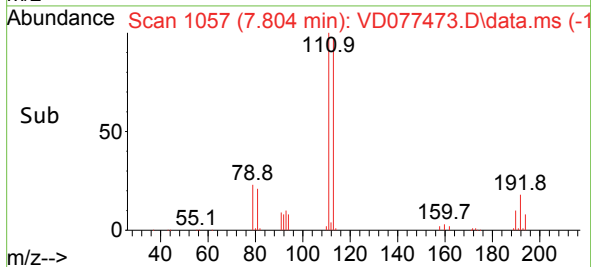
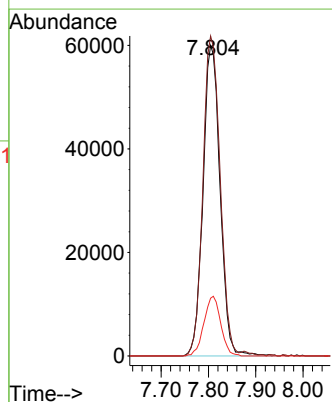
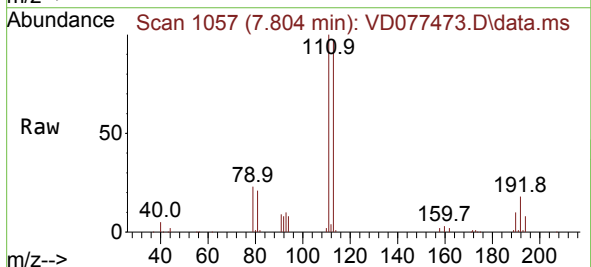
Instrument :  
MSVOA\_D  
ClientSampleId :

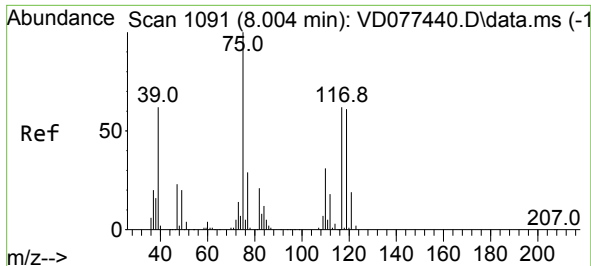
Tgt Ion:114 Resp: 457360  
Ion Ratio Lower Upper  
114 100  
63 23.9 0.0 33.4  
88 16.9 0.0 26.2



#35  
Dibromofluoromethane  
Concen: 47.460 ug/l  
RT: 7.804 min Scan# 1057  
Delta R.T. 0.000 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

Tgt Ion:113 Resp: 150026  
Ion Ratio Lower Upper  
113 100  
111 104.0 84.7 127.1  
192 19.0 16.8 25.2





#36

1,1-Dichloropropene

Concen: 5.091 ug/l

RT: 7.875 min Scan# 1091

Delta R.T. -0.129 min

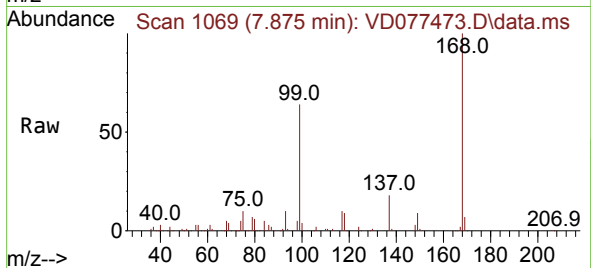
Lab File: VD077473.D

Acq: 01 Nov 2023 11:16

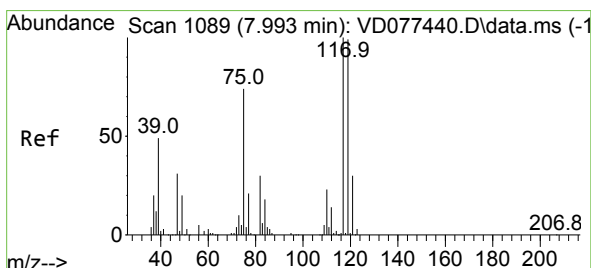
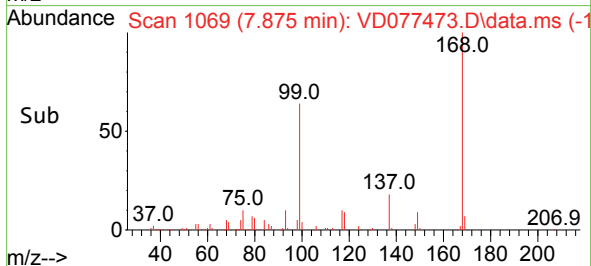
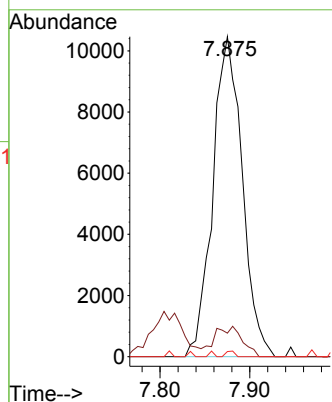
Instrument :

MSVOA\_D

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 23859    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 8.9 19.9 59.6# |
| 77          | 0.5 24.7 37.1# |



#38

Carbon Tetrachloride

Concen: 5.936 ug/l

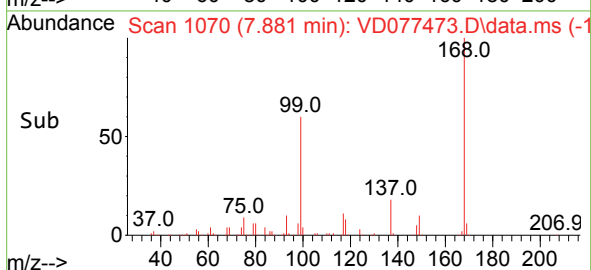
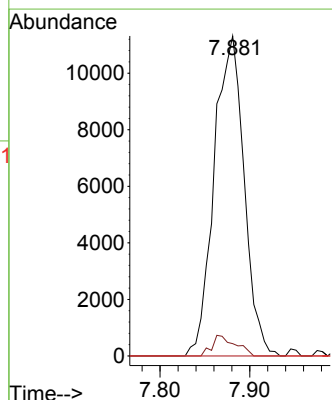
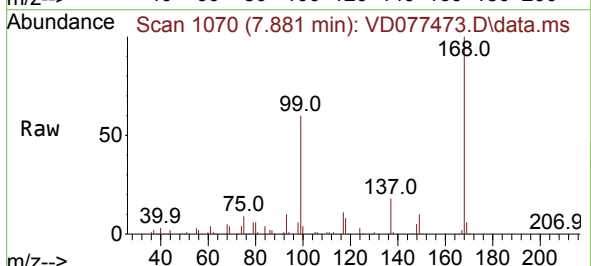
RT: 7.881 min Scan# 1070

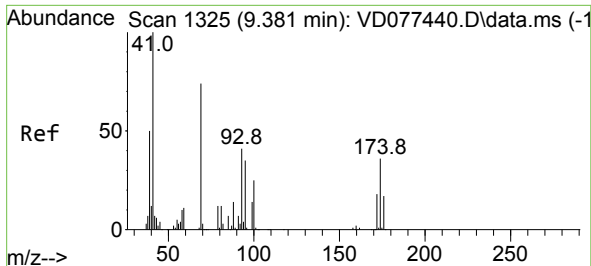
Delta R.T. -0.112 min

Lab File: VD077473.D

Acq: 01 Nov 2023 11:16

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 26217     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 3.8 78.0 117.0# |
| 121          | 0.0 24.2 36.2#  |





#49

1,4-Dioxane

Concen: 2.703 ug/l

RT: 9.628 min Scan# 11

Delta R.T. 0.247 min

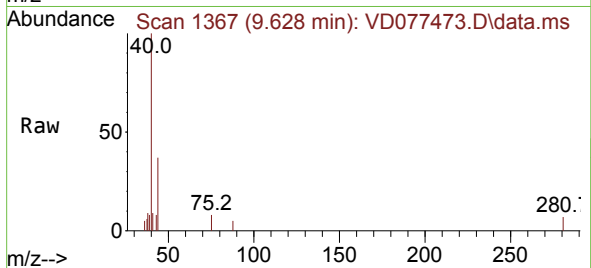
Lab File: VD077473.D

Acq: 01 Nov 2023 11:16

Instrument :

MSVOA\_D

ClientSampleId :



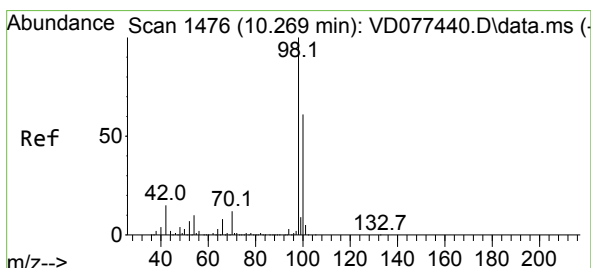
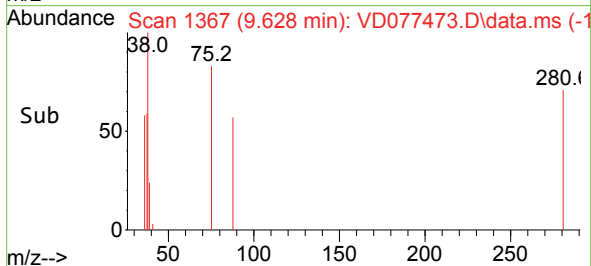
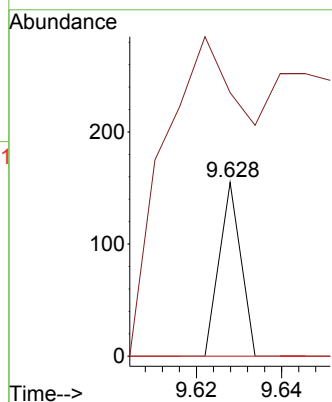
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 721.8 19.0 28.6#

58 0.0 43.5 65.3#



#50

Toluene-d8

Concen: 49.060 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077473.D

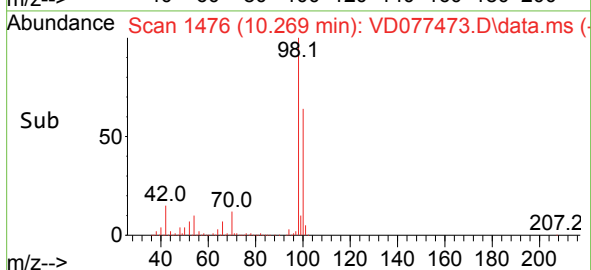
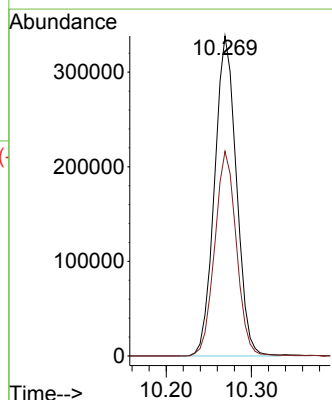
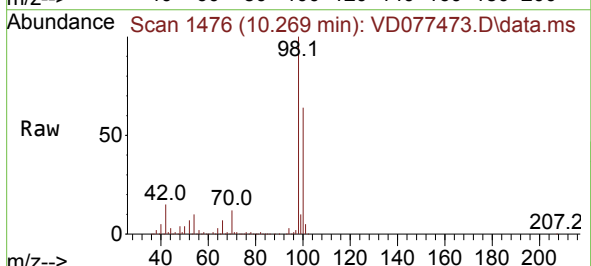
Acq: 01 Nov 2023 11:16

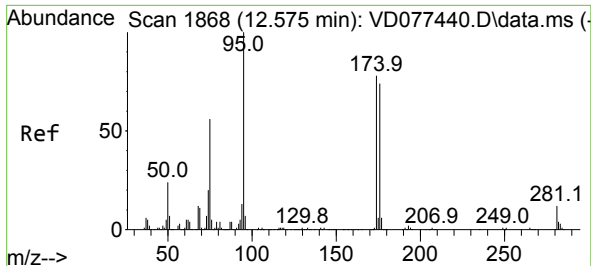
Tgt Ion: 98 Resp: 602388

Ion Ratio Lower Upper

98 100

100 63.4 50.3 75.5

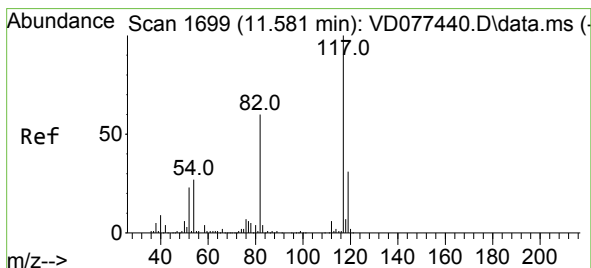
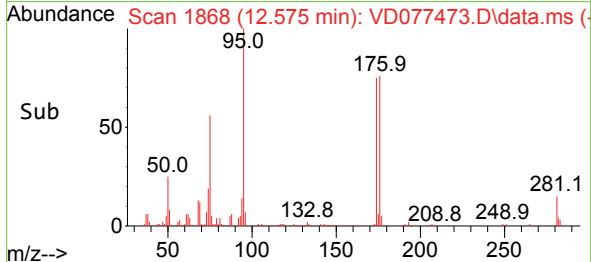
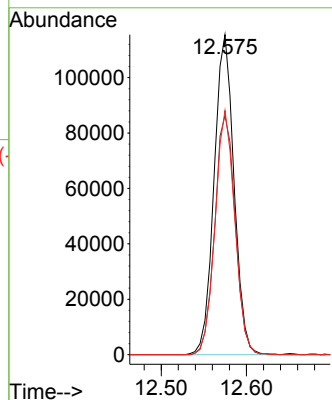
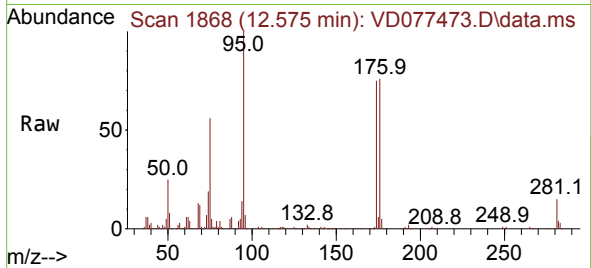




#62  
4-Bromofluorobenzene  
Concen: 45.410 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.000 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

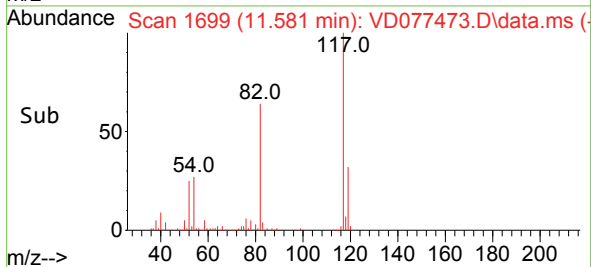
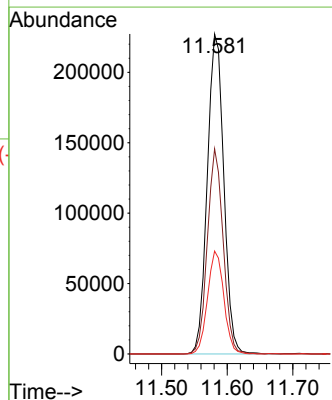
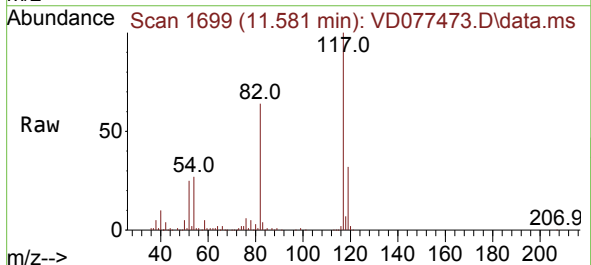
Instrument :  
MSVOA\_D  
ClientSampleId :

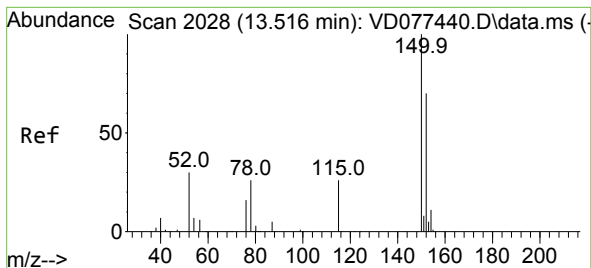
Tgt Ion: 95 Resp: 187793  
Ion Ratio Lower Upper  
95 100  
174 76.8 0.0 201.8  
176 75.6 0.0 191.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: VD077473.D  
Acq: 01 Nov 2023 11:16

Tgt Ion: 117 Resp: 398108  
Ion Ratio Lower Upper  
117 100  
82 64.1 38.3 57.5#  
119 32.2 25.0 37.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.522 min Scan# 20

Delta R.T. 0.006 min

Lab File: VD077473.D

Acq: 01 Nov 2023 11:16

Instrument :

MSVOA\_D

ClientSampleId :

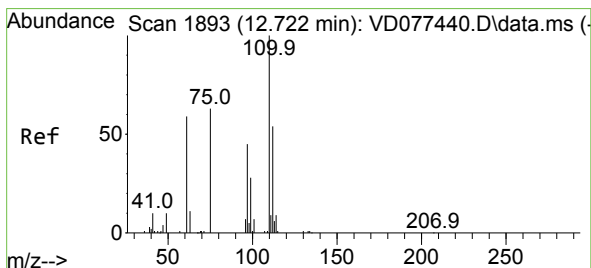
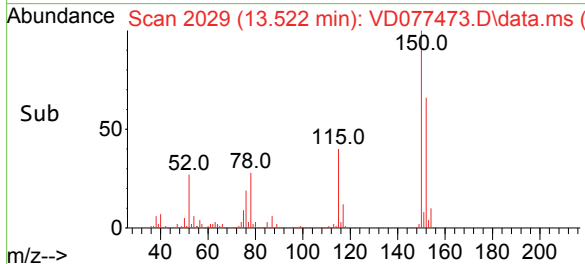
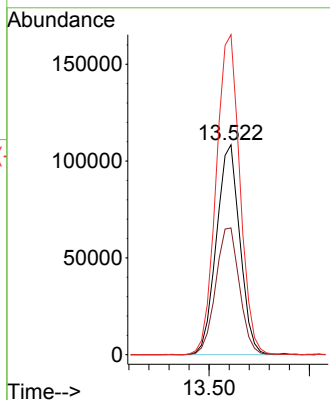
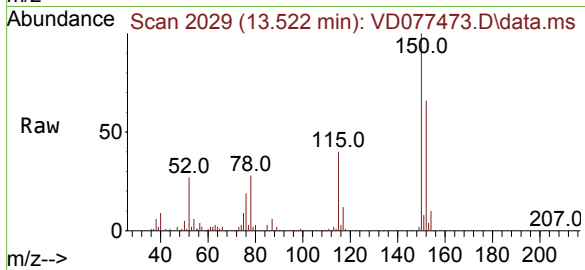
Tgt Ion:152 Resp: 175885

Ion Ratio Lower Upper

152 100

115 61.5 27.1 81.3

150 154.5 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 50.827 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.147 min

Lab File: VD077473.D

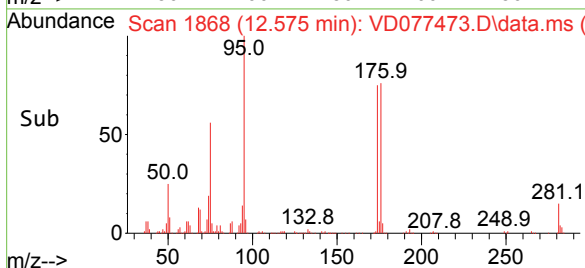
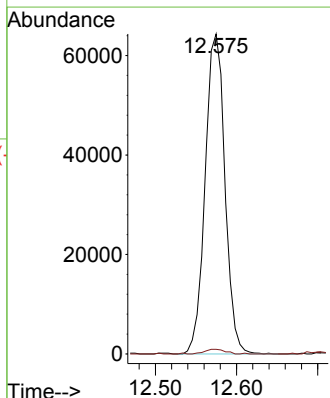
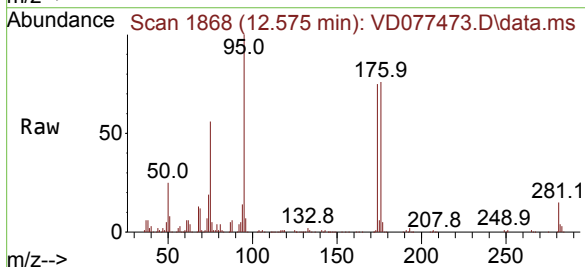
Acq: 01 Nov 2023 11:16

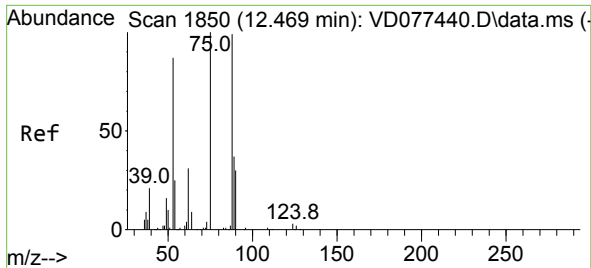
Tgt Ion: 75 Resp: 108805

Ion Ratio Lower Upper

75 100

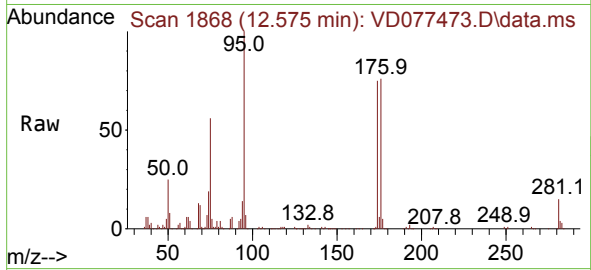
77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 98.179 ug/l  
 RT: 12.575 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD077473.D  
 Acq: 01 Nov 2023 11:16

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 108805  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 63.0 94.4#  
 89 0.3 37.9 56.9#

