

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111722\  
 Data File : VD074973.D  
 Acq On : 17 Nov 2022 16:50  
 Operator : VA/SY  
 Sample : N5642-13RE  
 Misc : 6.58G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 LEFT-SIDE-FLATS-33RE

Quant Time: Nov 17 22:36:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 14 00:51:58 2022  
 Response via : Initial Calibration

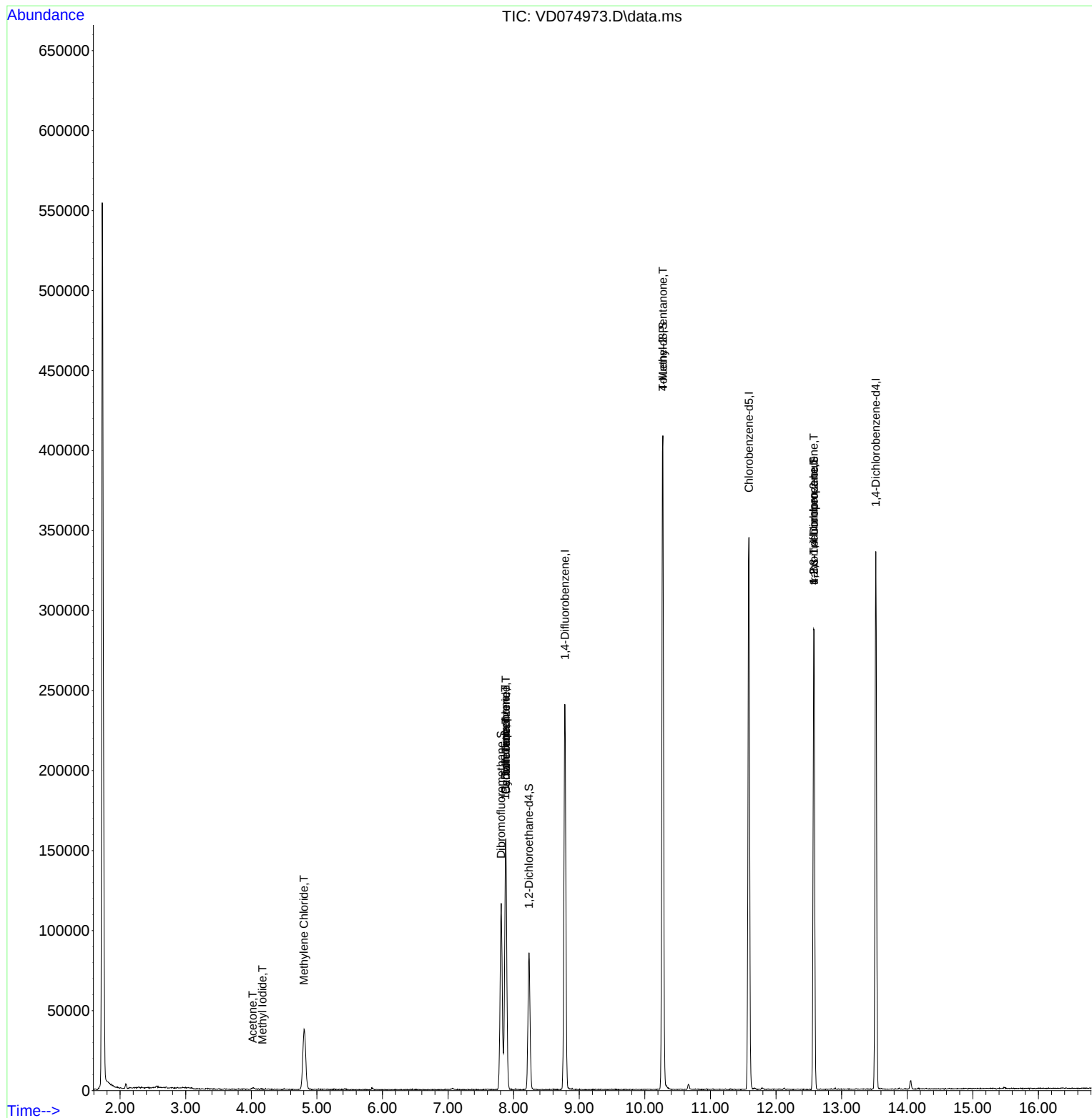
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 7.881          | 168  | 127838               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781          | 114  | 232184               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.587         | 117  | 219327               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522         | 152  | 97292                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234          | 65   | 66333                | 81.867    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 163.740%# |           |        |          |
| 35) Dibromofluoromethane      | 7.810          | 113  | 82519                | 57.655    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 115.320%  |           |        |          |
| 50) Toluene-d8                | 10.275         | 98   | 303918               | 64.463    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 128.920%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.575         | 95   | 86698                | 59.887    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 119.780%  |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        |          |
|                               |                |      |                      |           | Qvalue |          |
| 3) Chloromethane              | 2.152          | 50   | 185                  | Below Cal | #      | 37       |
| 5) Bromomethane               | 2.705          | 94   | 404                  | Below Cal | #      | 77       |
| 10) Methyl Iodide             | 4.169          | 142  | 67                   | 4.808     | ug/l # | 43       |
| 16) Acetone                   | 4.022          | 43   | 2002                 | 9.486     | ug/l # | 80       |
| 20) Methylene Chloride        | 4.805          | 84   | 34273                | 7.993     | ug/l   | 90       |
| 31) Cyclohexane               | 7.881          | 56   | 2357                 | 1.265     | ug/l # | 18       |
| 36) 1,1-Dichloropropene       | 7.875          | 75   | 9506                 | 4.519     | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 7.881          | 117  | 12492                | 6.309     | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.275         | 43   | 832                  | 1.404     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575         | 75   | 42457                | 52.174    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.575         | 75   | 42457                | 128.351   | ug/l # | 17       |
| -----                         |                |      |                      |           |        |          |

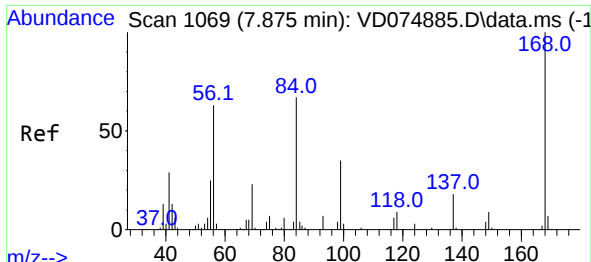
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : N5642-13RE  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
LEFT-SIDE-FLATS-33RE

Quant Time: Nov 17 22:36:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 14 00:51:58 2022  
Response via : Initial Calibration

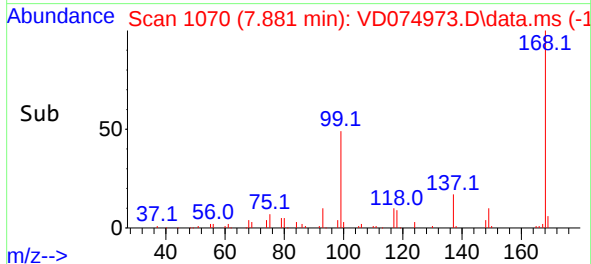
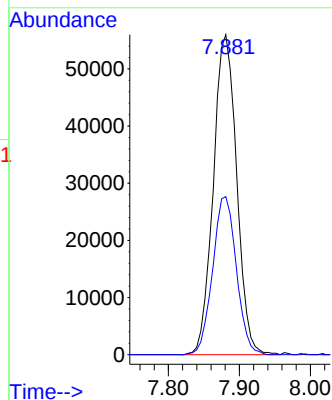
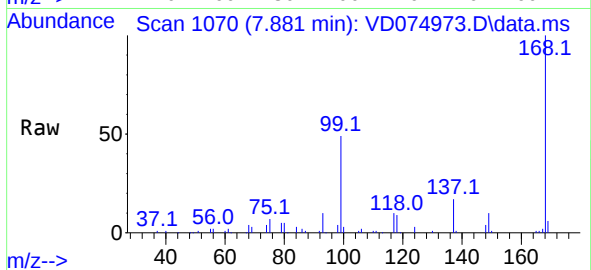




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

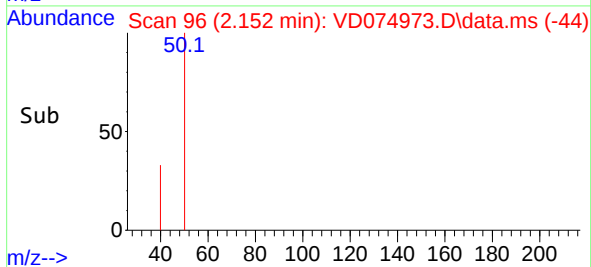
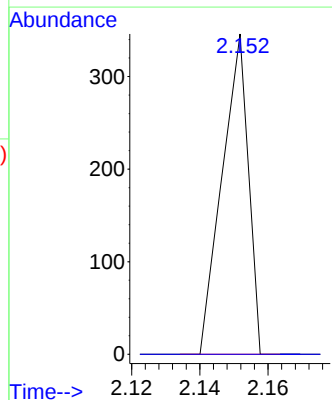
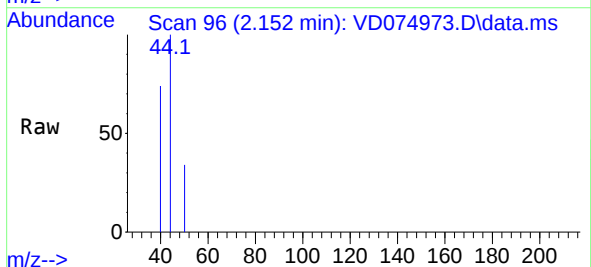
Instrument :  
MSVOA\_D  
ClientSampleId :  
LEFT-SIDE-FLATS-33RE

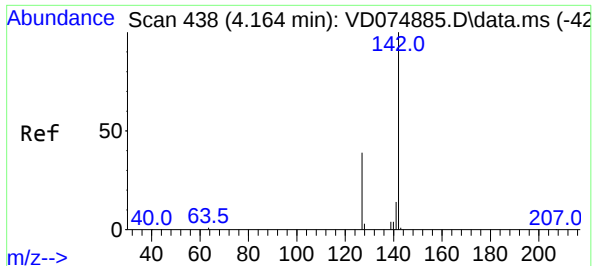
Tgt Ion:168 Resp: 127838  
Ion Ratio Lower Upper  
168 100  
99 49.4 40.9 61.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.152 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Tgt Ion: 50 Resp: 185  
Ion Ratio Lower Upper  
50 100  
52 0.0 30.0 45.0#

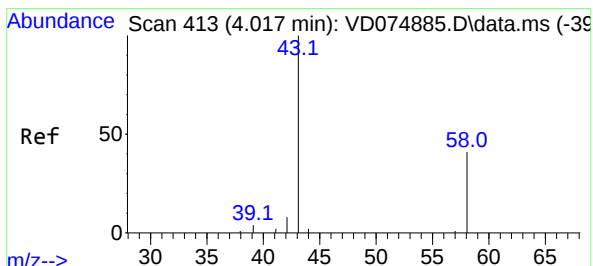
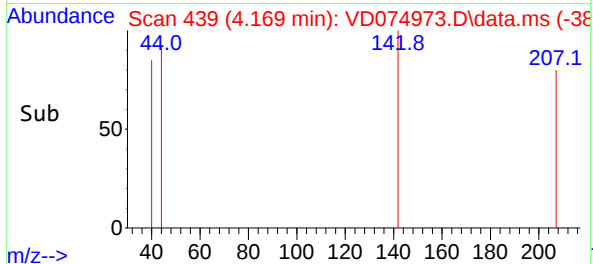
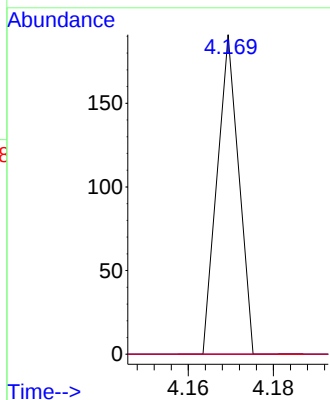
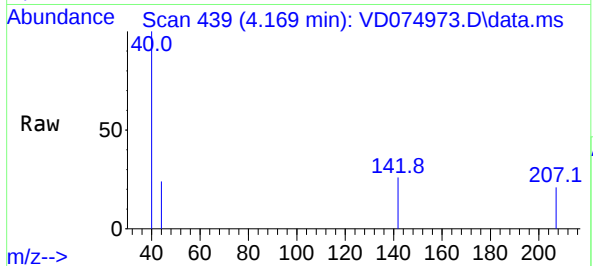




#10  
Methyl Iodide  
Concen: 4.808 ug/l  
RT: 4.169 min Scan# 41  
Delta R.T. 0.005 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

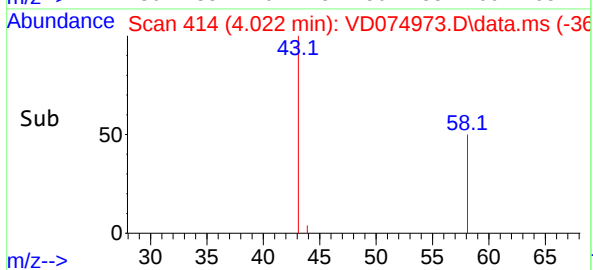
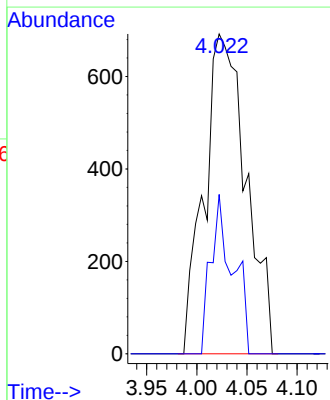
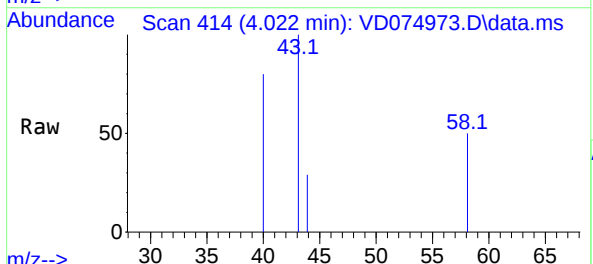
Instrument :  
MSVOA\_D  
ClientSampleId :  
LEFT-SIDE-FLATS-33RE

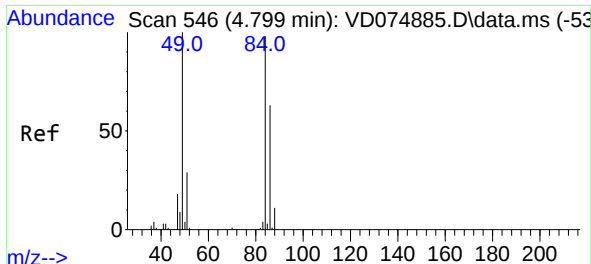
Tgt Ion:142 Resp: 67  
Ion Ratio Lower Upper  
142 100  
127 0.0 31.9 47.9#  
141 0.0 11.4 17.2#



#16  
Acetone  
Concen: 9.486 ug/l  
RT: 4.022 min Scan# 414  
Delta R.T. 0.005 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Tgt Ion: 43 Resp: 2002  
Ion Ratio Lower Upper  
43 100  
58 49.9 30.2 45.2#



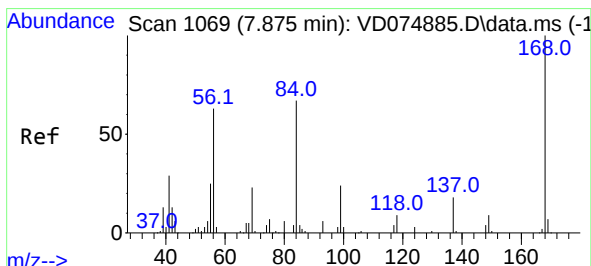
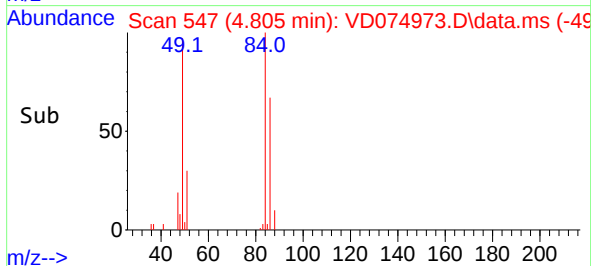
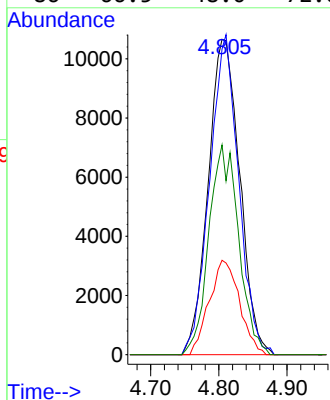
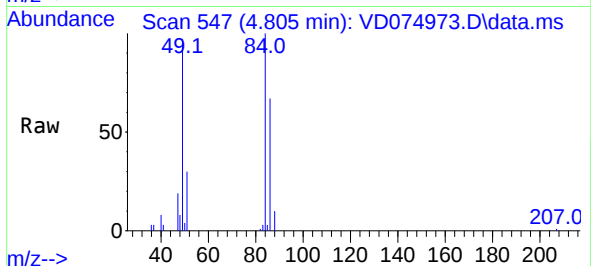


#20  
Methylene Chloride  
Concen: 7.993 ug/l  
RT: 4.805 min Scan# 54  
Delta R.T. 0.006 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
LEFT-SIDE-FLATS-33RE

Tgt Ion: 84 Resp: 34273

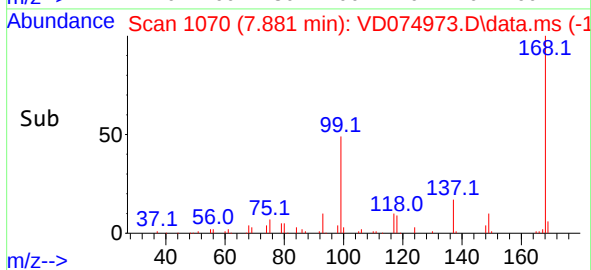
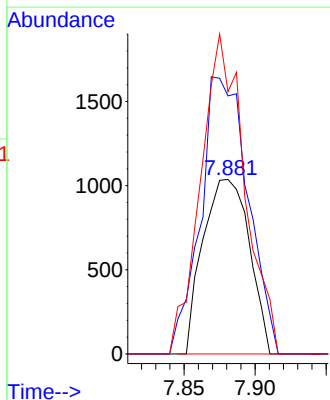
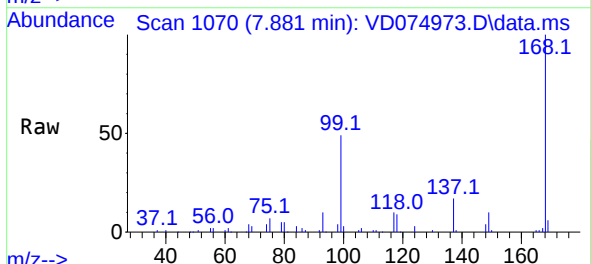
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 96.9  | 68.0  | 102.0 |
| 51  | 29.9  | 23.2  | 34.8  |
| 86  | 66.5  | 48.0  | 72.0  |

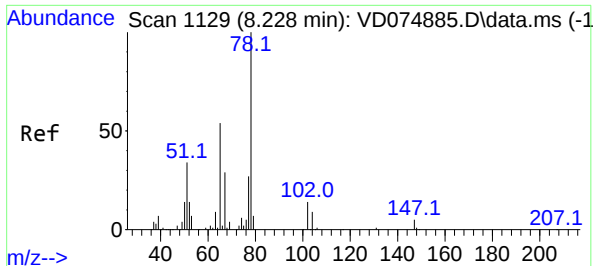


#31  
Cyclohexane  
Concen: 1.265 ug/l  
RT: 7.881 min Scan# 1070  
Delta R.T. 0.006 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Tgt Ion: 56 Resp: 2357

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 147.8 | 29.2  | 43.8#  |
| 84  | 150.2 | 83.4  | 125.2# |





#33

1,2-Dichloroethane-d4

Concen: 81.867 ug/l

RT: 8.234 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VD074973.D

Acq: 17 Nov 2022 16:50

Instrument :

MSVOA\_D

ClientSampleId :

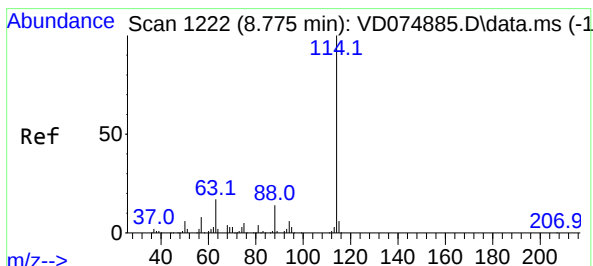
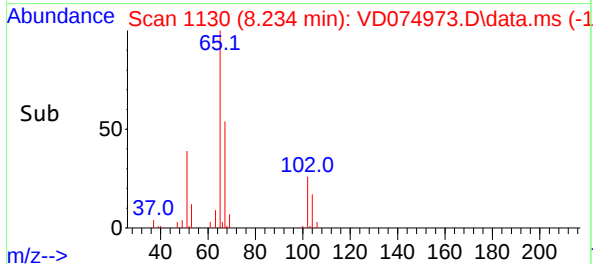
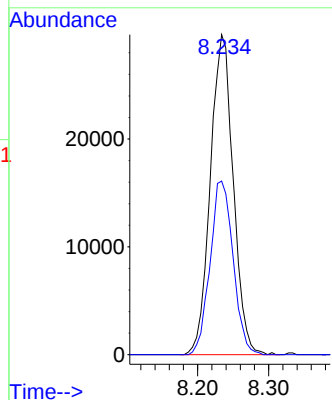
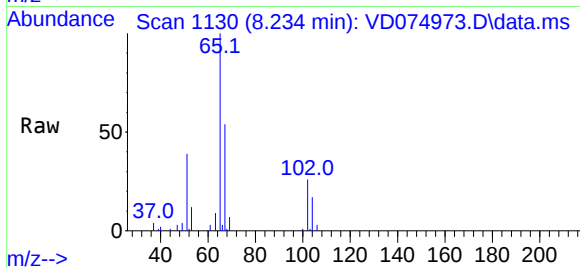
LEFT-SIDE-FLATS-33RE

Tgt Ion: 65 Resp: 66333

Ion Ratio Lower Upper

65 100

67 54.7 0.0 110.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD074973.D

Acq: 17 Nov 2022 16:50

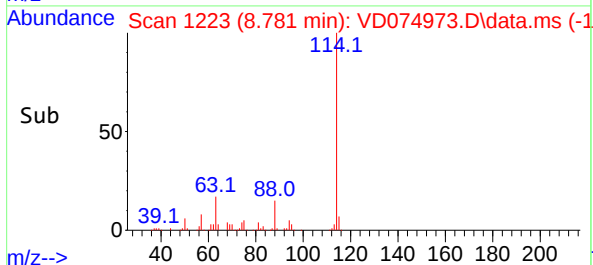
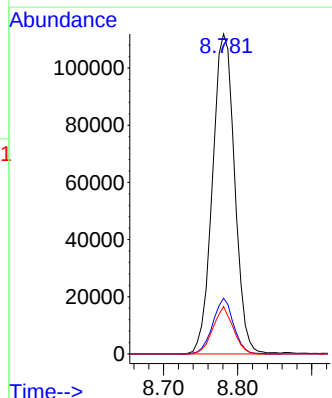
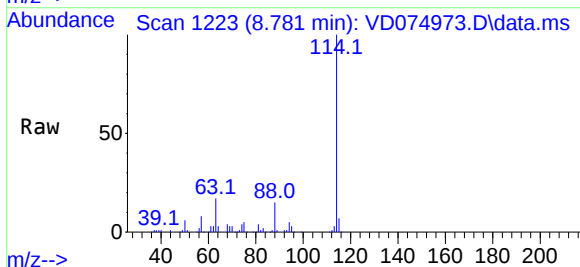
Tgt Ion: 114 Resp: 232184

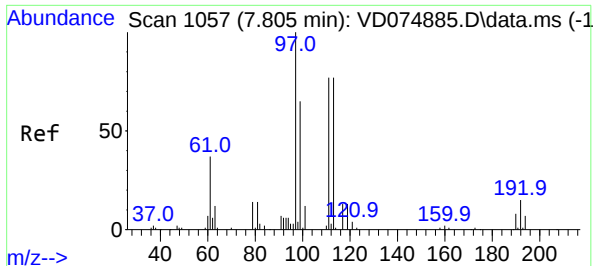
Ion Ratio Lower Upper

114 100

63 17.4 0.0 33.2

88 14.8 0.0 28.2

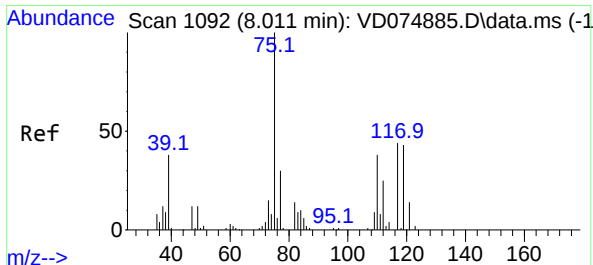
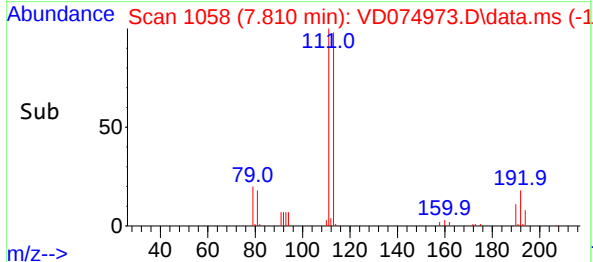
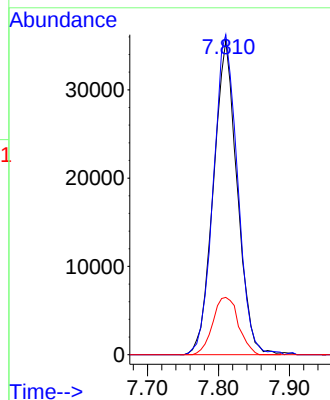
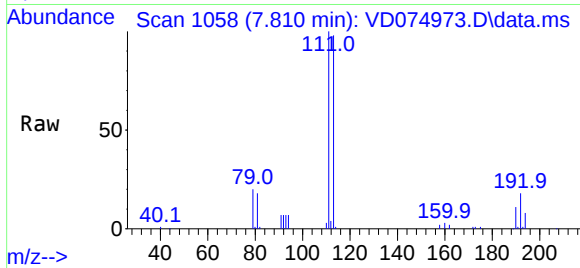




#35  
Dibromofluoromethane  
Concen: 57.655 ug/l  
RT: 7.810 min Scan# 1058  
Delta R.T. 0.005 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

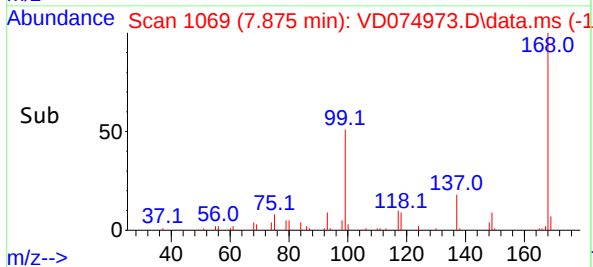
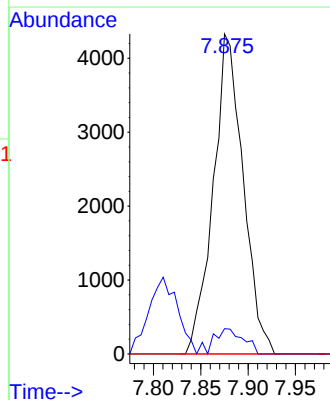
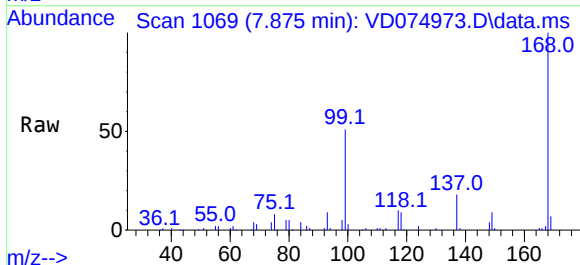
Instrument :  
MSVOA\_D  
ClientSampleId :  
LEFT-SIDE-FLATS-33RE

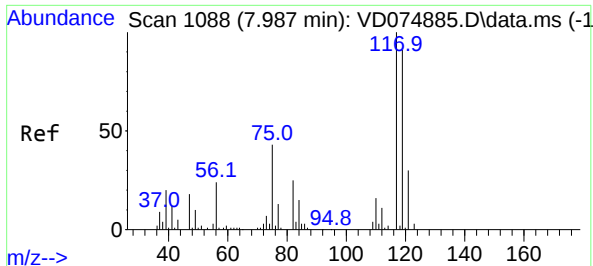
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|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 82519 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.4 | 82.3  | 123.5 |
| 192      | 19.7  | 16.4  | 24.6  |



#36  
1,1-Dichloropropene  
Concen: 4.519 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.136 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 9506  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.9   | 19.7  | 59.0# |
| 77       | 0.0   | 25.4  | 38.2# |

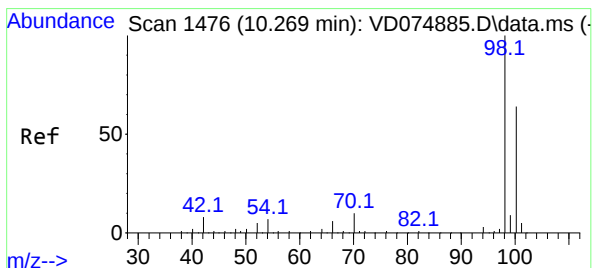
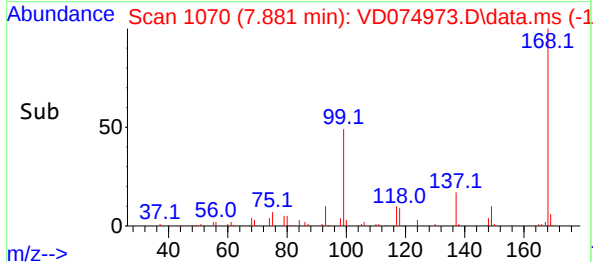
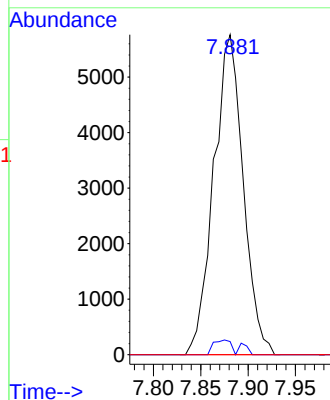
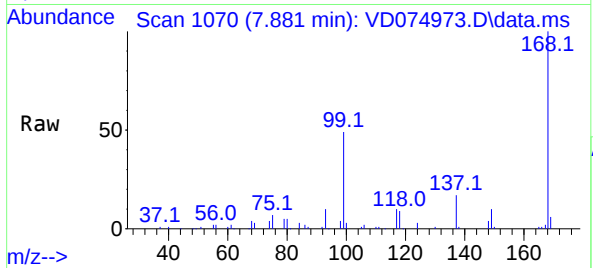




#38  
Carbon Tetrachloride  
Concen: 6.309 ug/l  
RT: 7.881 min Scan# 1088  
Delta R.T. -0.106 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

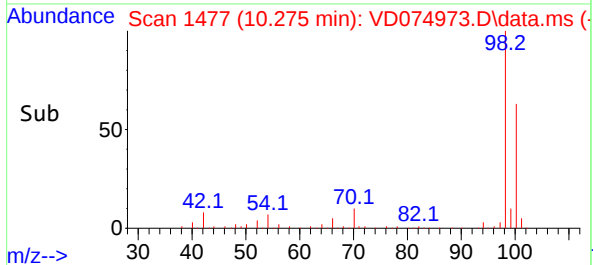
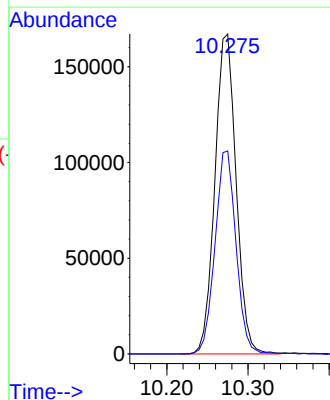
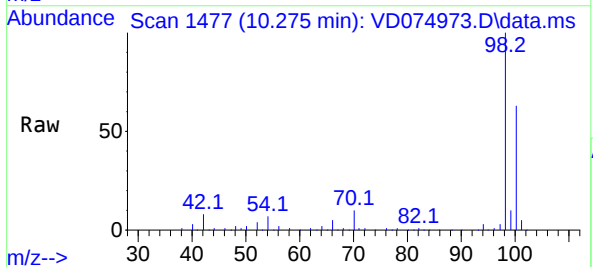
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LEFT-SIDE-FLATS-33RE

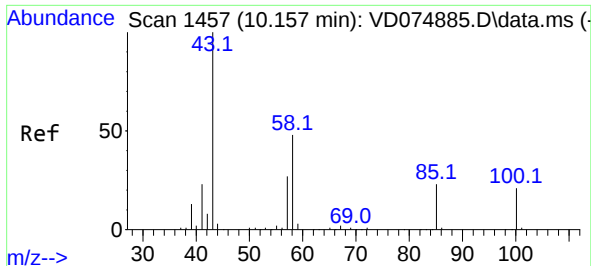
Tgt Ion:117 Resp: 12492  
Ion Ratio Lower Upper  
117 100  
119 4.1 73.1 109.7#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 64.463 ug/l  
RT: 10.275 min Scan# 1477  
Delta R.T. 0.006 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Tgt Ion: 98 Resp: 303918  
Ion Ratio Lower Upper  
98 100  
100 62.9 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 1.404 ug/l

RT: 10.275 min Scan# 1457

Delta R.T. 0.118 min

Lab File: VD074973.D

Acq: 17 Nov 2022 16:50

Instrument :

MSVOA\_D

ClientSampleId :

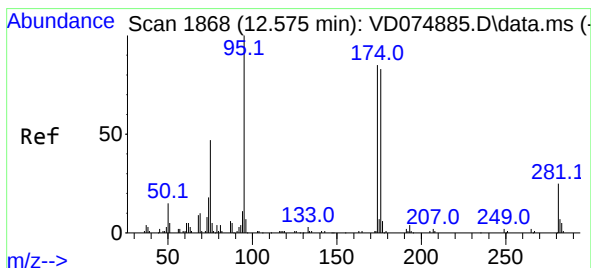
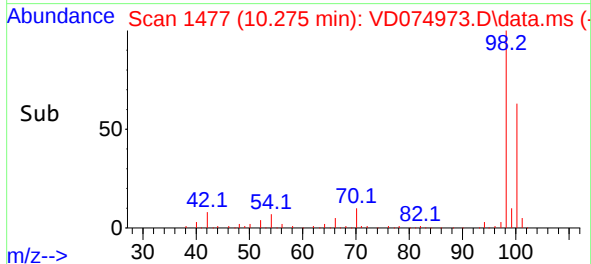
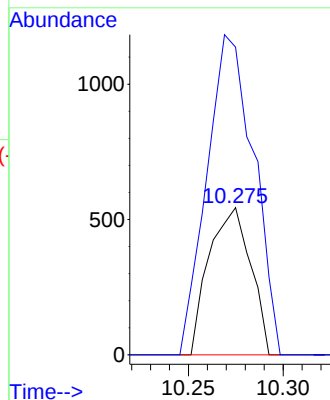
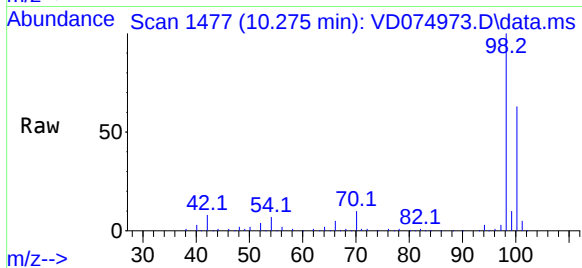
LEFT-SIDE-FLATS-33RE

Tgt Ion: 43 Resp: 832

Ion Ratio Lower Upper

43 100

58 244.6 37.8 56.6#



#62

4-Bromofluorobenzene

Concen: 59.887 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VD074973.D

Acq: 17 Nov 2022 16:50

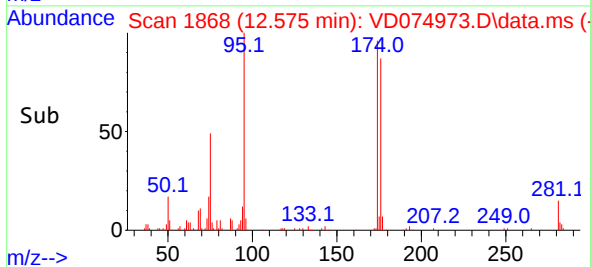
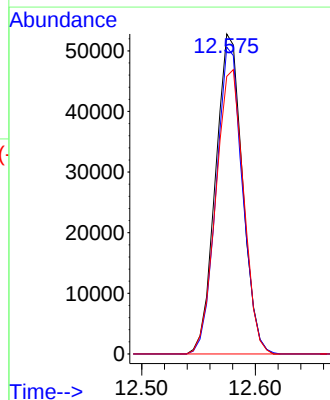
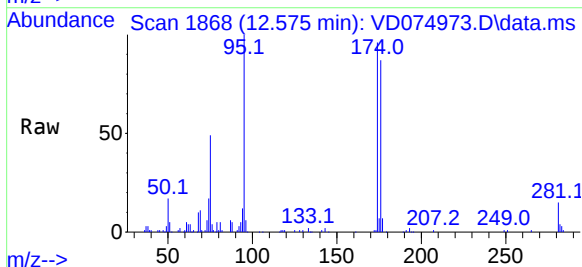
Tgt Ion: 95 Resp: 86698

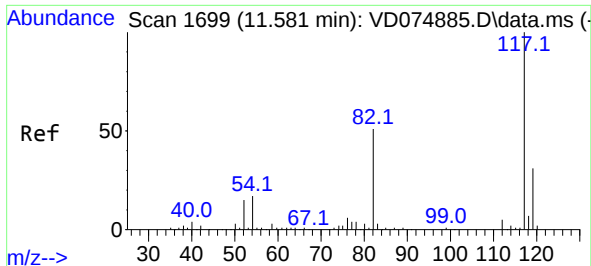
Ion Ratio Lower Upper

95 100

174 93.9 0.0 197.0

176 91.8 0.0 182.6

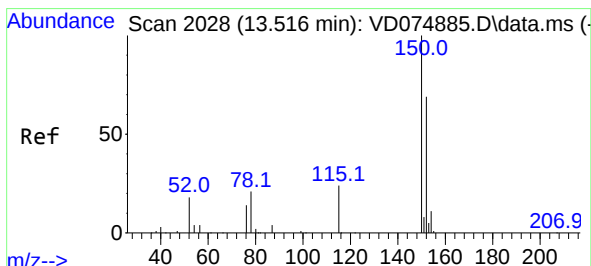
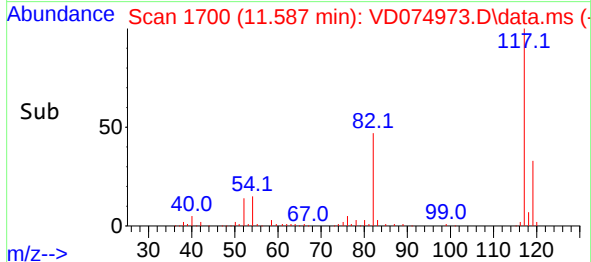
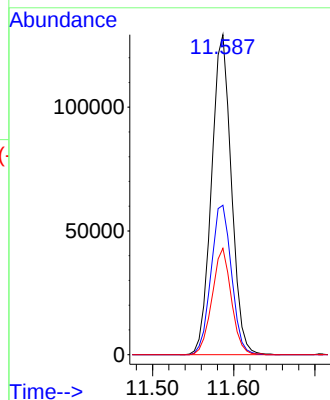
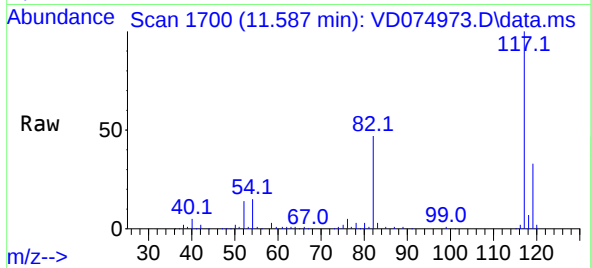




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.587 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

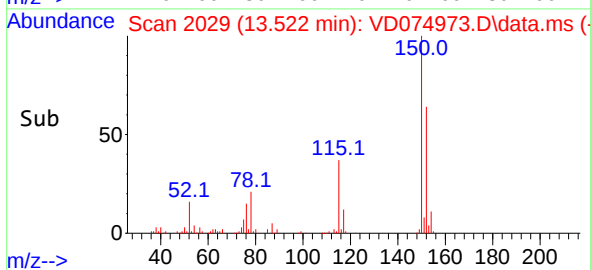
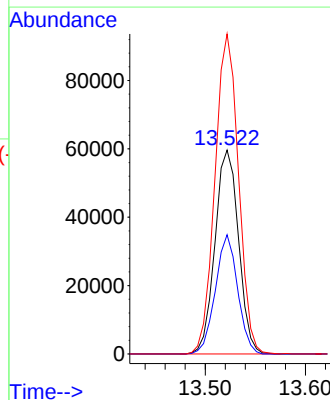
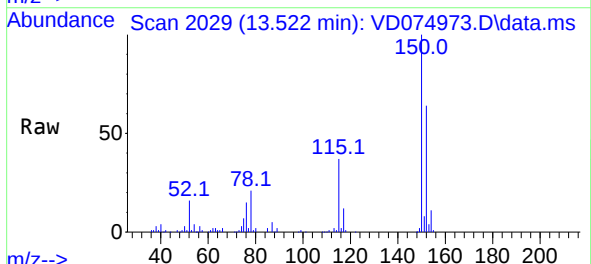
Instrument :  
MSVOA\_D  
ClientSampleId :  
LEFT-SIDE-FLATS-33RE

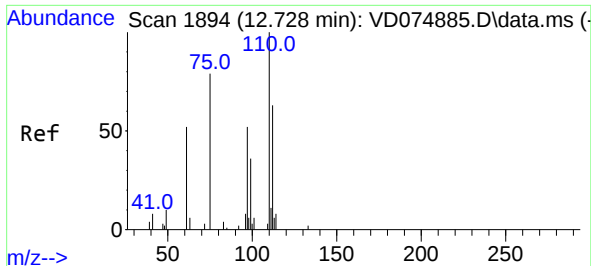
Tgt Ion:117 Resp: 219327  
Ion Ratio Lower Upper  
117 100  
82 46.7 41.6 62.4  
119 33.3 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Tgt Ion:152 Resp: 97292  
Ion Ratio Lower Upper  
152 100  
115 55.3 26.8 80.4  
150 156.8 0.0 348.2

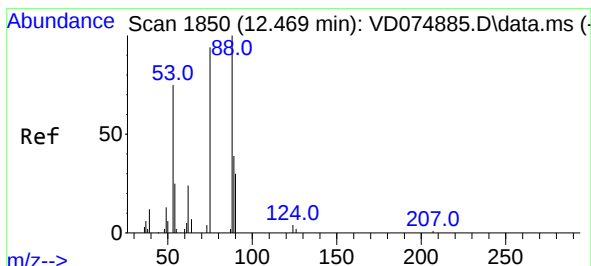
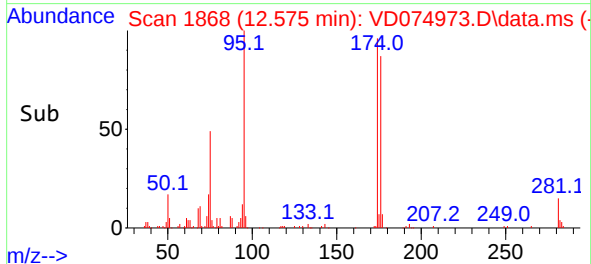
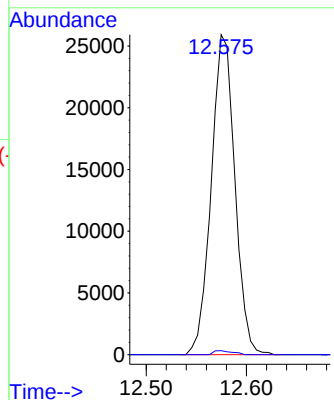
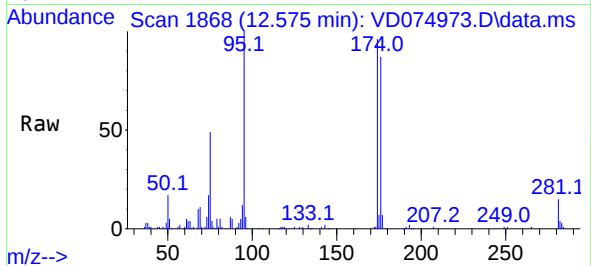




#76  
1,2,3-Trichloropropane  
Concen: 52.174 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
LEFT-SIDE-FLATS-33RE

Tgt Ion: 75 Resp: 42457  
Ion Ratio Lower Upper  
75 100  
77 1.0 185.8 557.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 128.351 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD074973.D  
Acq: 17 Nov 2022 16:50

Tgt Ion: 75 Resp: 42457  
Ion Ratio Lower Upper  
75 100  
53 0.0 63.8 95.6#  
89 0.0 38.2 57.4#

