

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112321\  
 Data File : VX025304.D  
 Acq On : 24 Nov 2021 03:08  
 Operator : JC/MD  
 Sample : M4795-01  
 Misc : 5.11g/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 HAR-22

Quant Time: Nov 24 05:02:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

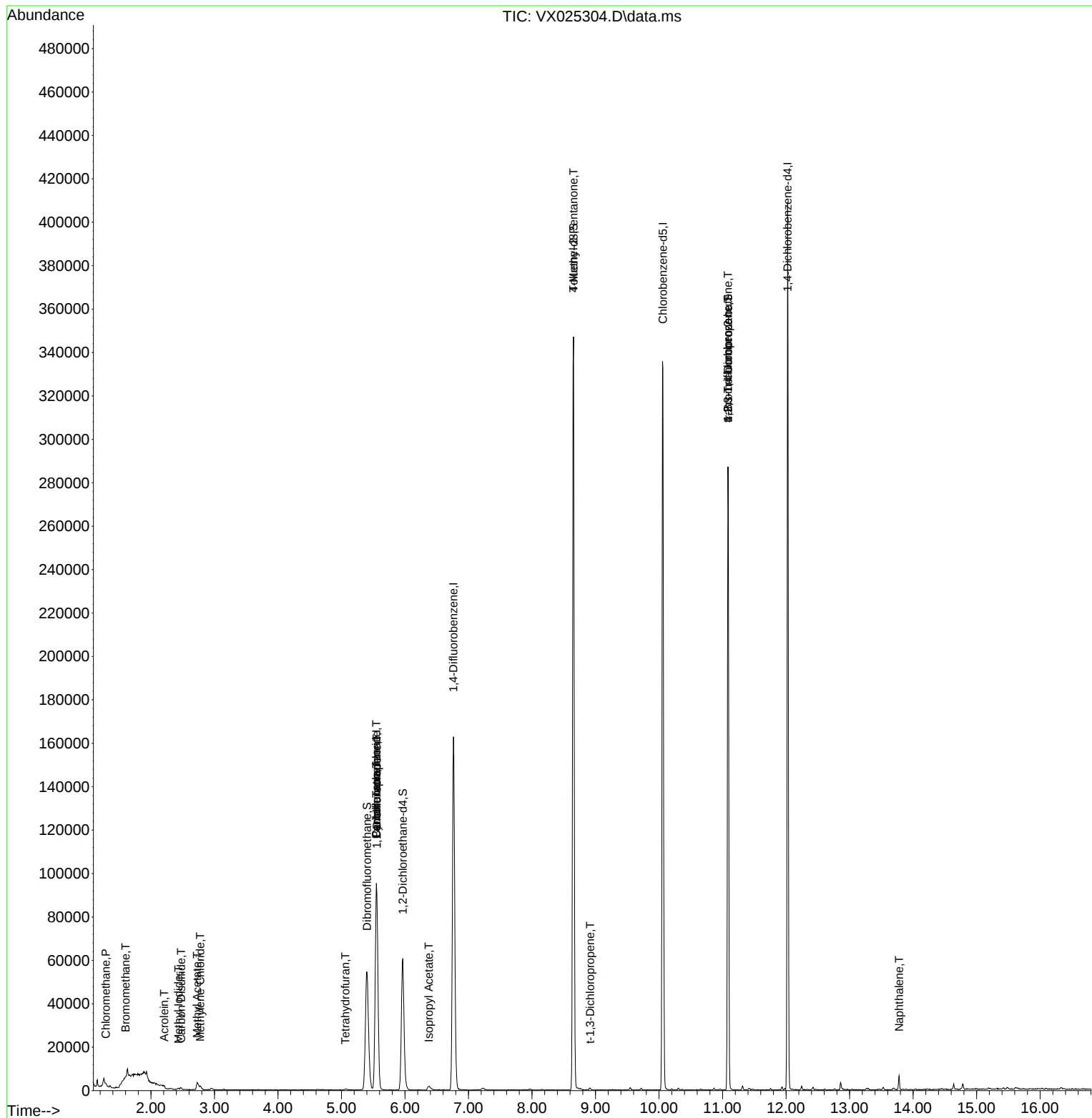
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 103734   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 188017   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.061 | 117   | 179165   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 86605    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 61172    | 55.945    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 111.900% |
| 35) Dibromofluoromethane      | 5.403  | 113   | 56191    | 48.709    | ug/l   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.420%  |
| 50) Toluene-d8                | 8.653  | 98    | 222082   | 51.201    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 102.400% |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 82528    | 50.295    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 100.580% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 3) Chloromethane              | 1.288  | 50    | 270      | 0.243     | ug/l   | 92       |
| 5) Bromomethane               | 1.599  | 94    | 339      | 0.645     | ug/l   | 89       |
| 10) Methyl Iodide             | 2.434  | 142   | 322      | 0.267     | ug/l # | 72       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 370      | Below Cal | #      | 72       |
| 13) Acrolein                  | 2.209  | 56    | 94       | 1.877     | ug/l # | 13       |
| 17) Carbon Disulfide          | 2.477  | 76    | 878      | 0.325     | ug/l # | 80       |
| 18) Methyl Acetate            | 2.727  | 43    | 5741     | 2.957     | ug/l   | 100      |
| 20) Methylene Chloride        | 2.776  | 84    | 687      | 0.602     | ug/l # | 70       |
| 29) Tetrahydrofuran           | 5.062  | 42    | 627      | 1.153     | ug/l # | 43       |
| 31) Cyclohexane               | 5.550  | 56    | 1698     | 1.005     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6915     | 4.215     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 9546     | 5.284     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.373  | 43    | 1178     | 0.379     | ug/l # | 61       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 971      | 0.499     | ug/l # | 1        |
| 53) t-1,3-Dichloropropene     | 8.915  | 75    | 726      | 0.375     | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 39488    | 22.266    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 39488    | 56.091    | ug/l # | 9        |
| 95) Naphthalene               | 13.780 | 128   | 4052     | 0.321     | ug/l   | 98       |
| -----                         |        |       |          |           |        |          |

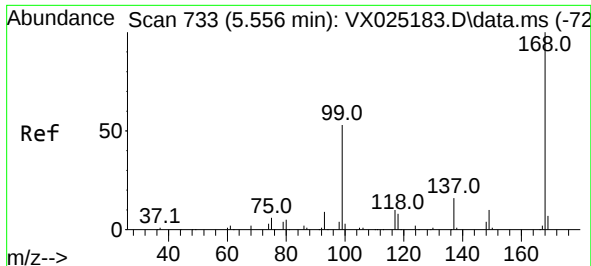
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration

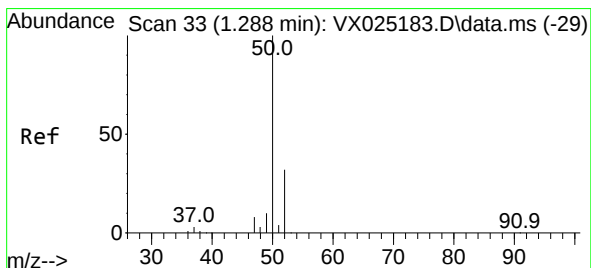
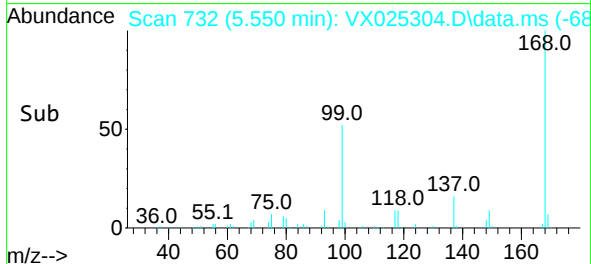
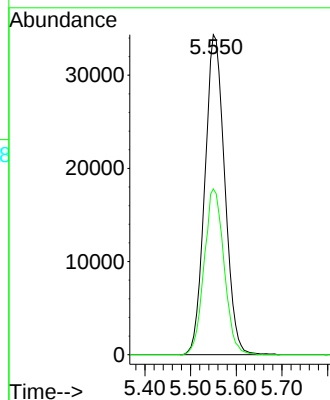
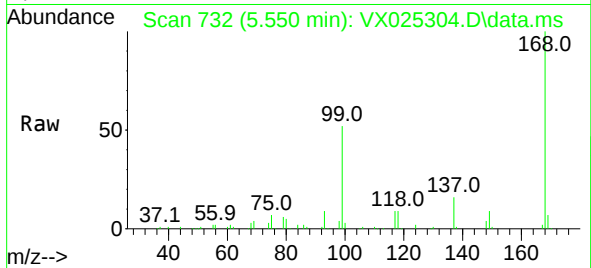




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

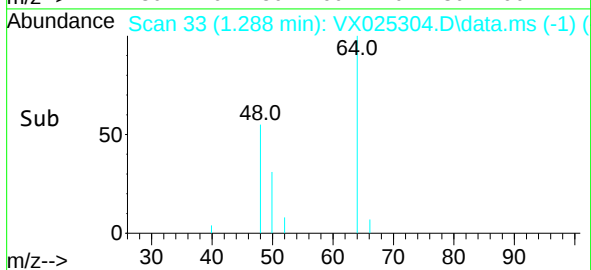
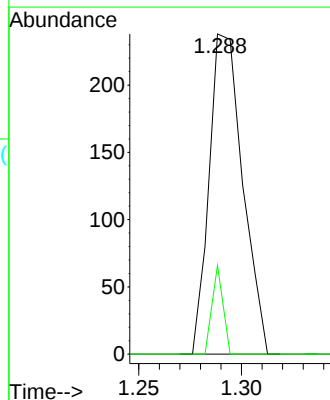
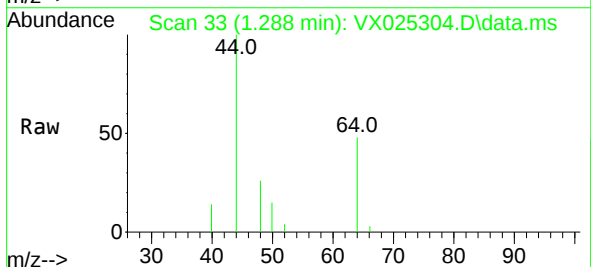
Instrument :  
MSVOA\_X  
ClientSampleId :  
HAR-22

Tgt Ion:168 Resp: 103734  
Ion Ratio Lower Upper  
168 100  
99 51.8 46.4 69.6



#3  
Chloromethane  
Concen: 0.243 ug/l  
RT: 1.288 min Scan# 33  
Delta R.T. 0.000 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion: 50 Resp: 270  
Ion Ratio Lower Upper  
50 100  
52 27.7 25.9 38.9

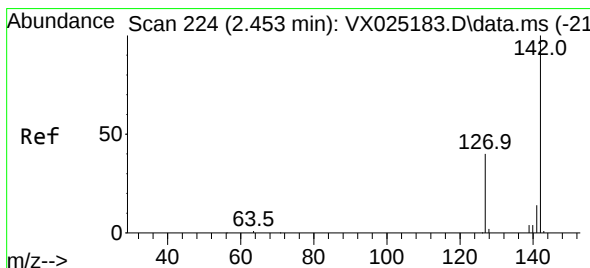
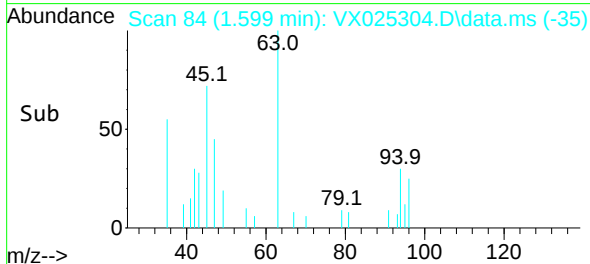
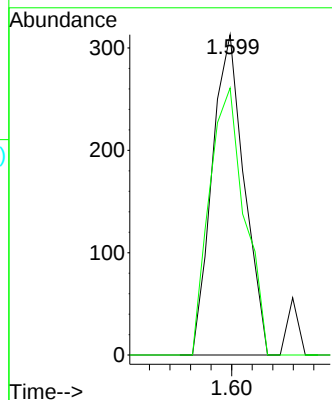
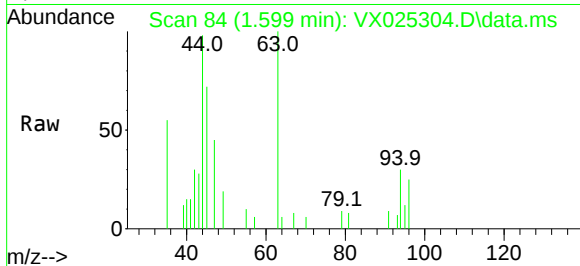




#5  
 Bromomethane  
 Concen: 0.645 ug/l  
 RT: 1.599 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VX025304.D  
 Acq: 24 Nov 2021 03:08

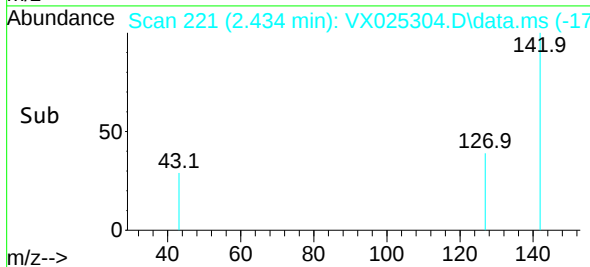
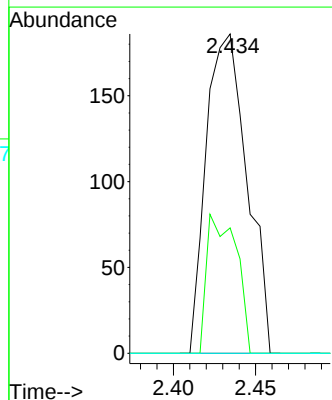
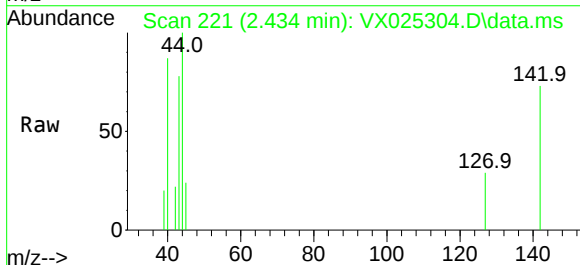
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 MSVOA\_X  
 ClientSampleId :  
 HAR-22

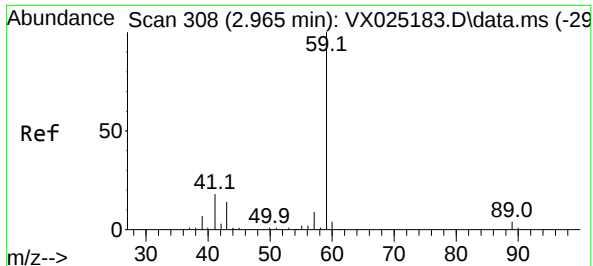
Tgt Ion: 94 Resp: 339  
 Ion Ratio Lower Upper  
 94 100  
 96 83.4 74.8 112.2



#10  
 Methyl Iodide  
 Concen: 0.267 ug/l  
 RT: 2.434 min Scan# 221  
 Delta R.T. -0.019 min  
 Lab File: VX025304.D  
 Acq: 24 Nov 2021 03:08

Tgt Ion: 142 Resp: 322  
 Ion Ratio Lower Upper  
 142 100  
 127 31.4 38.9 58.3#  
 141 0.0 11.7 17.5#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.947 min Scan# 308

Delta R.T. -0.018 min

Lab File: VX025304.D

Acq: 24 Nov 2021 03:08

Instrument :

MSVOA\_X

ClientSampleId :

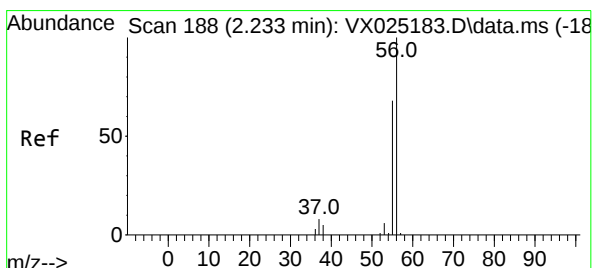
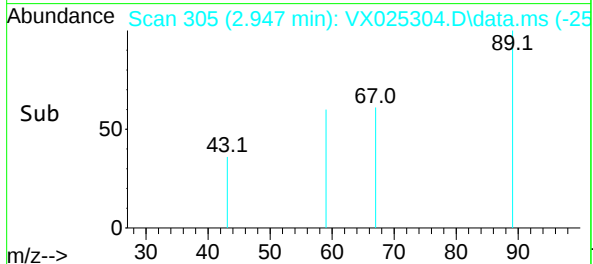
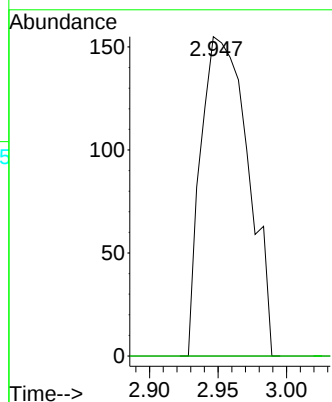
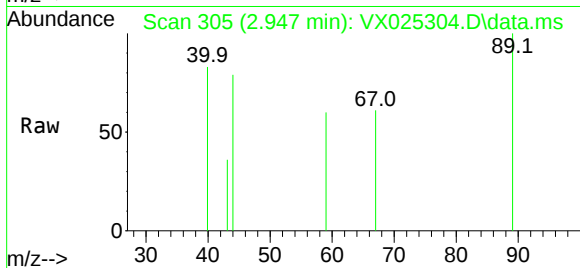
HAR-22

Tgt Ion: 59 Resp: 370

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 1.877 ug/l

RT: 2.209 min Scan# 184

Delta R.T. -0.024 min

Lab File: VX025304.D

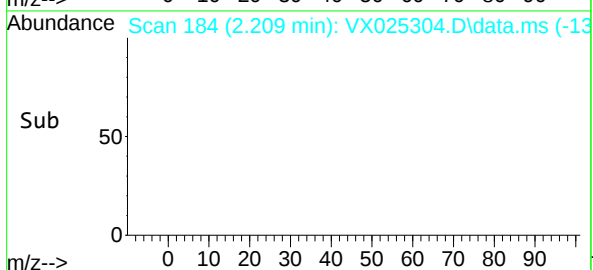
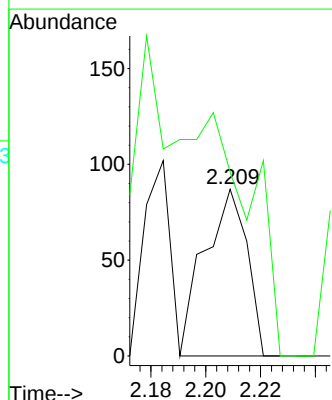
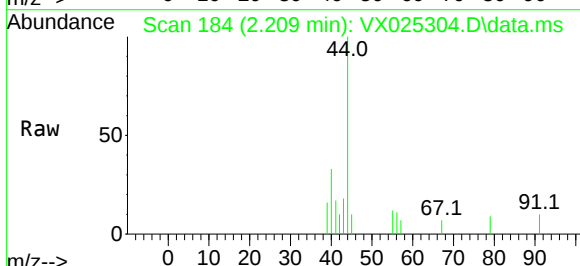
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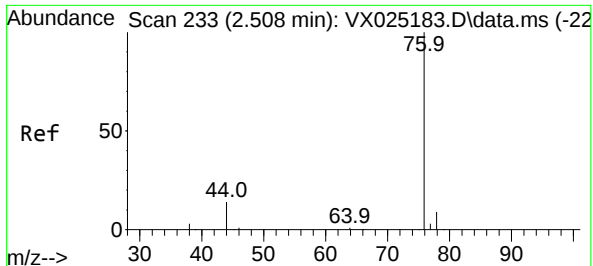
Tgt Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 0.0 58.6 87.8#

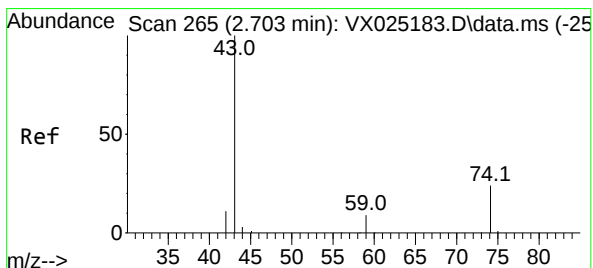
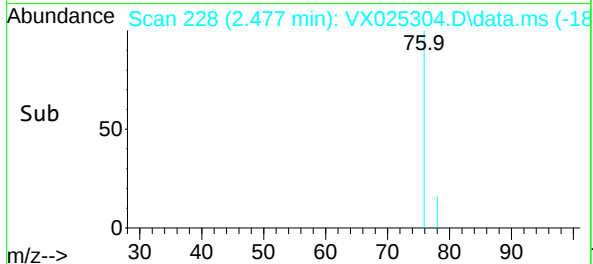
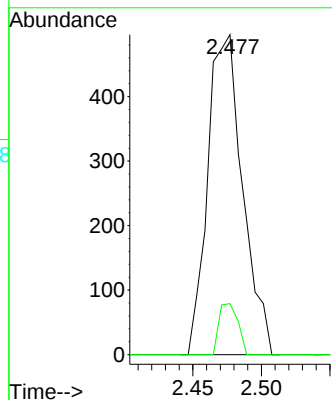
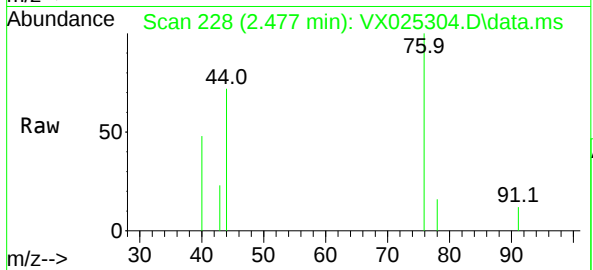




#17  
Carbon Disulfide  
Concen: 0.325 ug/l  
RT: 2.477 min Scan# 211  
Delta R.T. -0.031 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

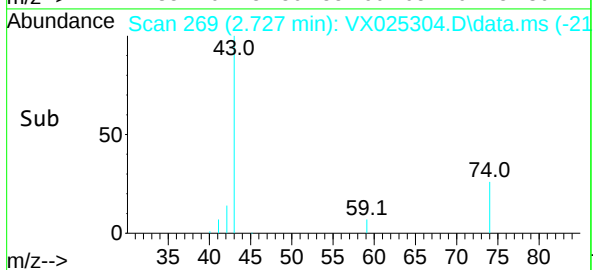
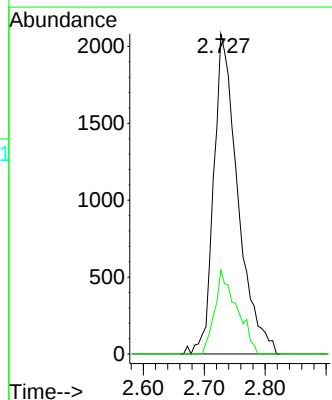
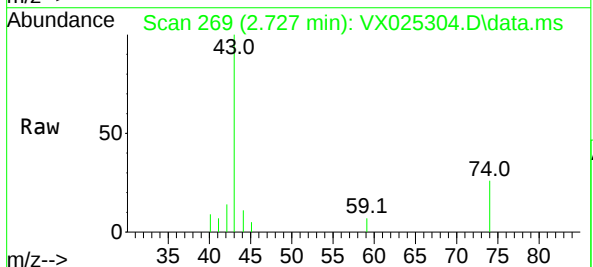
Instrument :  
MSVOA\_X  
ClientSampleId :  
HAR-22

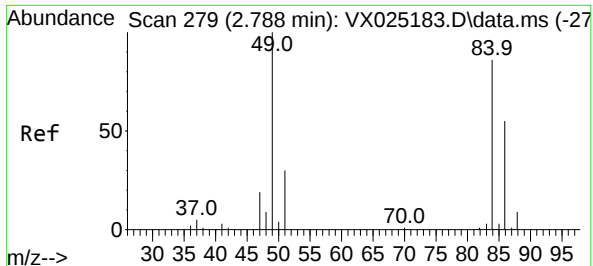
Tgt Ion: 76 Resp: 878  
Ion Ratio Lower Upper  
76 100  
78 15.9 6.9 10.3#



#18  
Methyl Acetate  
Concen: 2.957 ug/l  
RT: 2.727 min Scan# 269  
Delta R.T. 0.024 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion: 43 Resp: 5741  
Ion Ratio Lower Upper  
43 100  
74 23.9 19.0 28.6



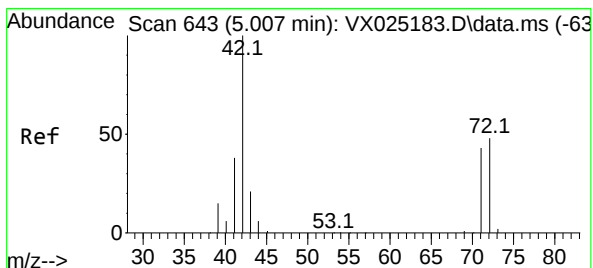
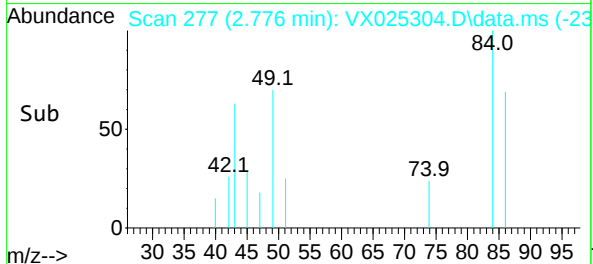
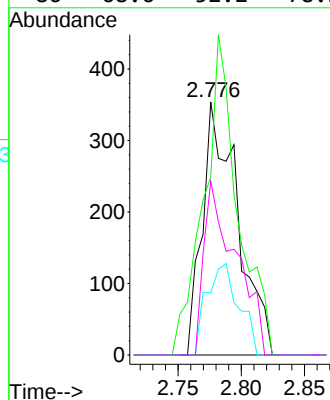
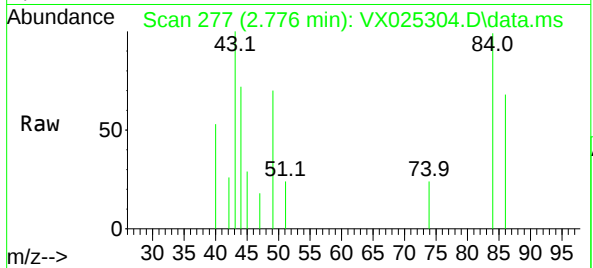


#20  
Methylene Chloride  
Concen: 0.602 ug/l  
RT: 2.776 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
HAR-22

Tgt Ion: 84 Resp: 687

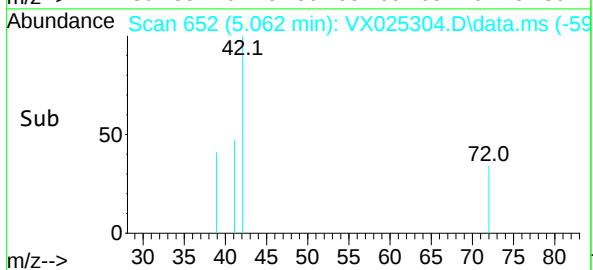
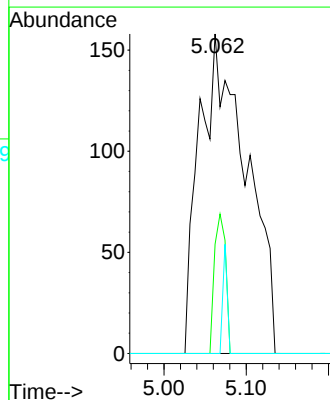
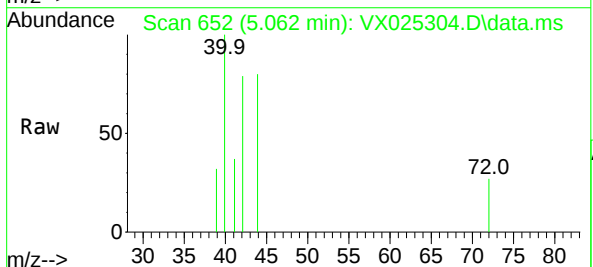
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 70.3  | 98.2  | 147.2# |
| 51  | 24.6  | 30.2  | 45.4#  |
| 86  | 68.6  | 52.2  | 78.2   |

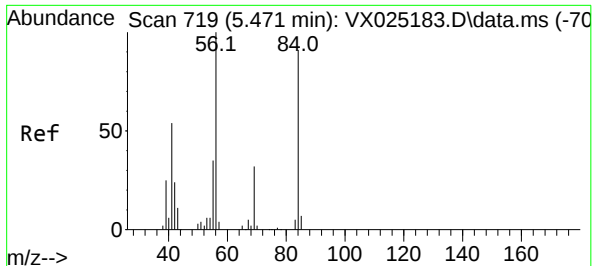


#29  
Tetrahydrofuran  
Concen: 1.153 ug/l  
RT: 5.062 min Scan# 652  
Delta R.T. 0.055 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion: 42 Resp: 627

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 10.4  | 36.1  | 54.1# |
| 71  | 3.2   | 33.7  | 50.5# |

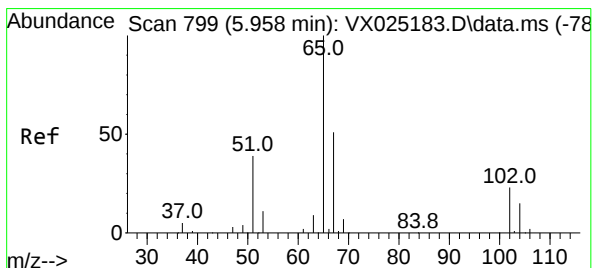
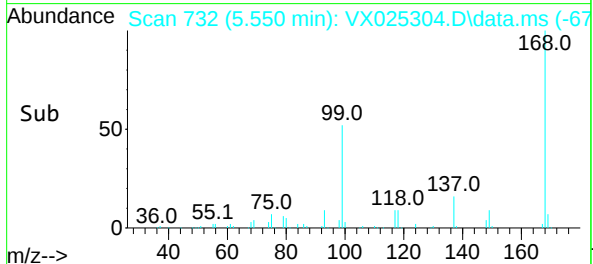
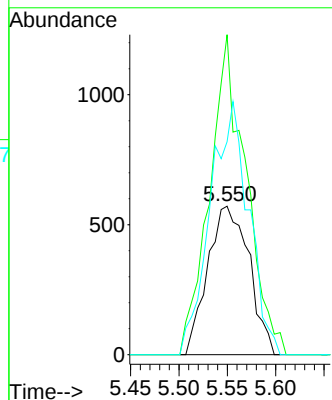
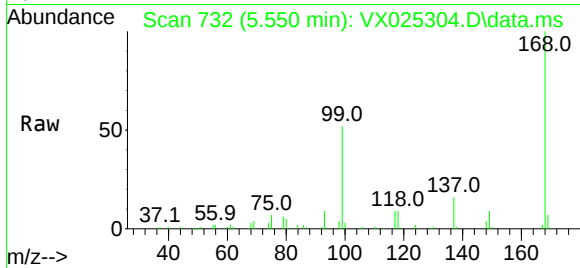




#31  
Cyclohexane  
Concen: 1.005 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

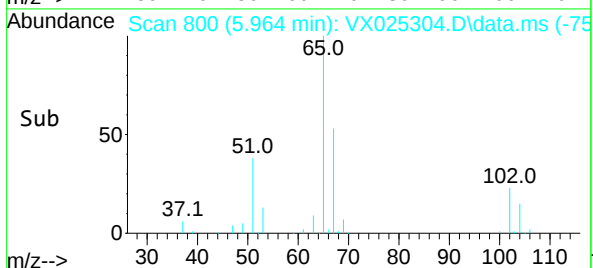
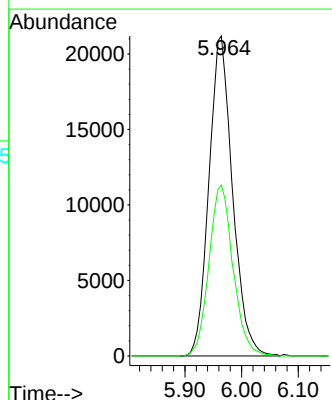
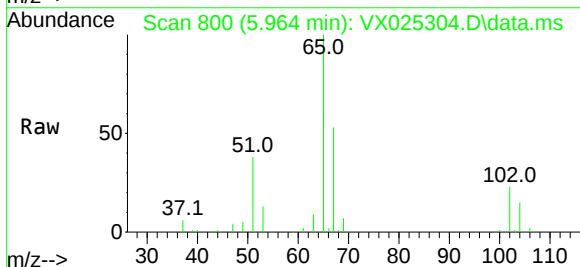
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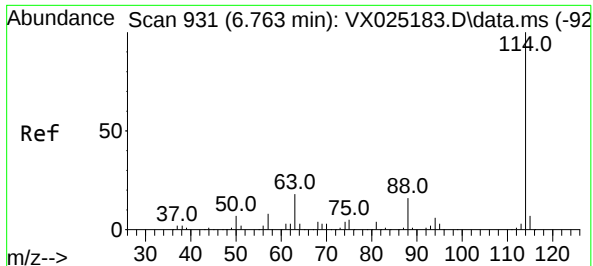
Tgt Ion: 56 Resp: 1698  
Ion Ratio Lower Upper  
56 100  
69 215.6 24.2 36.2#  
84 143.4 71.5 107.3#



#33  
1,2-Dichloroethane-d4  
Concen: 55.945 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.006 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion: 65 Resp: 61172  
Ion Ratio Lower Upper  
65 100  
67 54.5 0.0 101.0

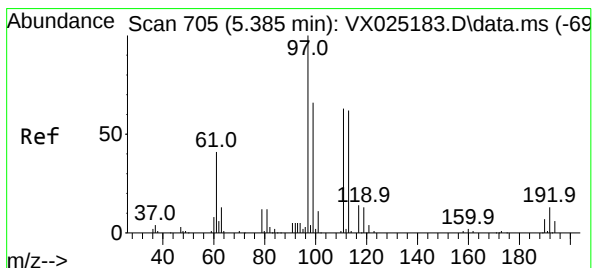
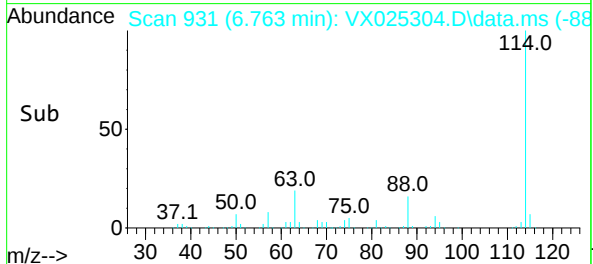
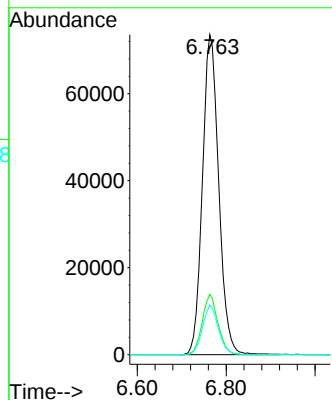
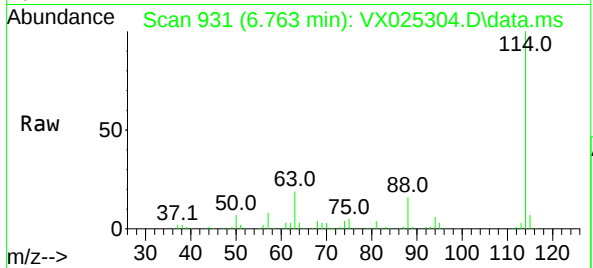




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

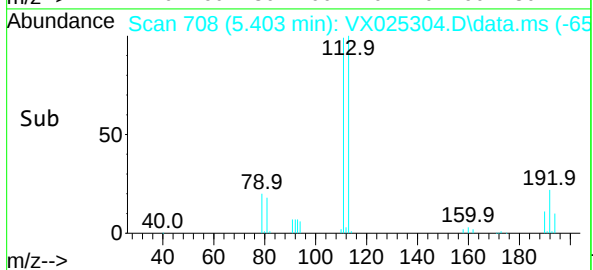
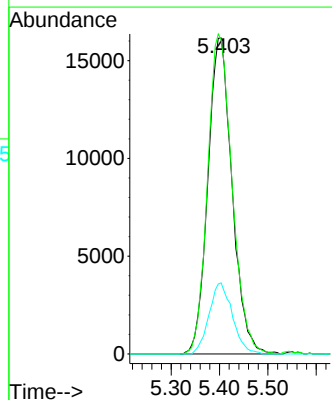
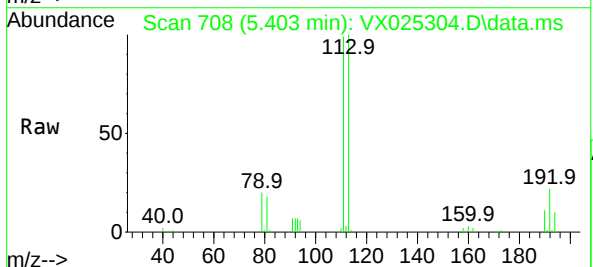
Instrument :  
MSVOA\_X  
ClientSampleId :  
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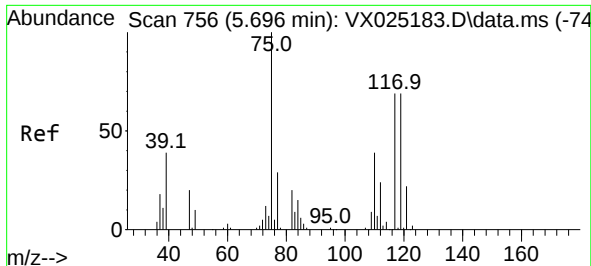
Tgt Ion:114 Resp: 188017  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 41.0  
88 15.6 0.0 34.8



#35  
Dibromofluoromethane  
Concen: 48.709 ug/l  
RT: 5.403 min Scan# 708  
Delta R.T. 0.018 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion:113 Resp: 56191  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.1 123.1  
192 21.6 15.6 23.4

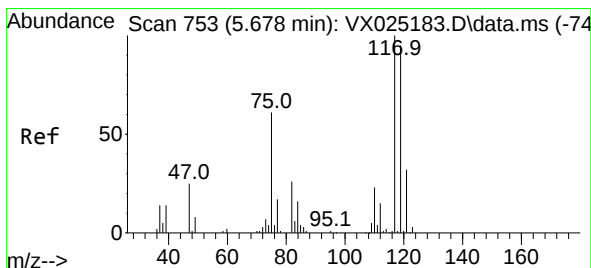
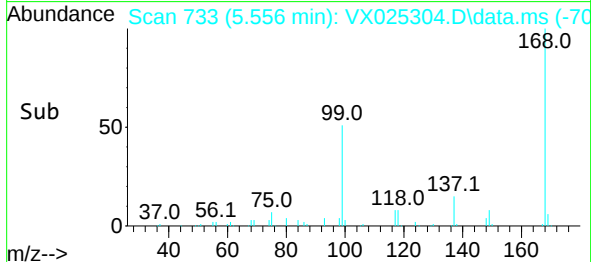
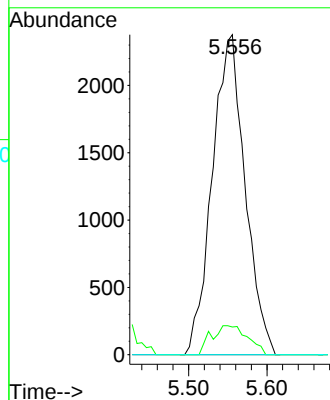
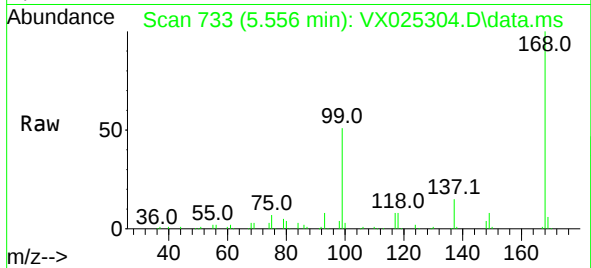




#36  
1,1-Dichloropropene  
Concen: 4.215 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

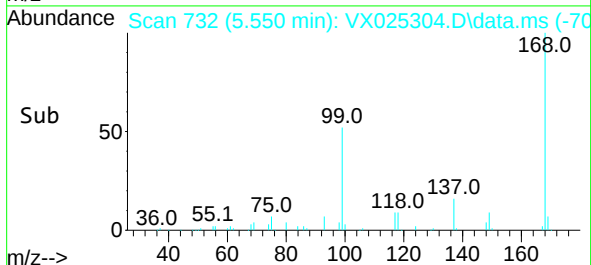
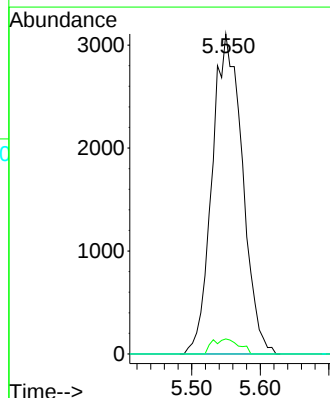
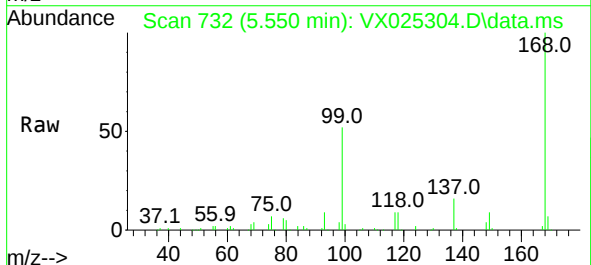
Instrument :  
MSVOA\_X  
ClientSampleId :  
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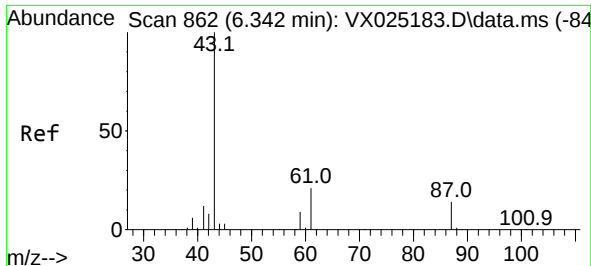
Tgt Ion: 75 Resp: 6915  
Ion Ratio Lower Upper  
75 100  
110 10.1 18.1 54.3#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 5.284 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion: 117 Resp: 9546  
Ion Ratio Lower Upper  
117 100  
119 4.7 75.6 113.4#  
121 0.0 23.7 35.5#

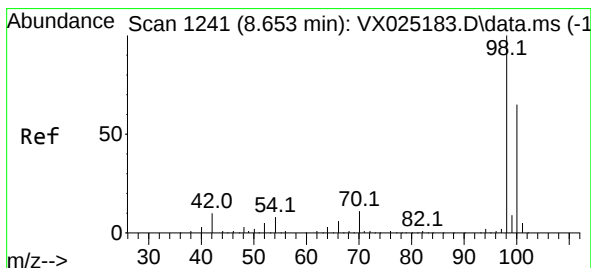
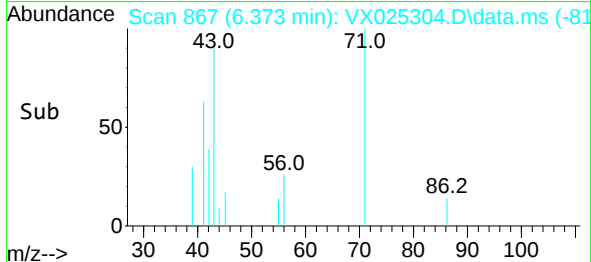
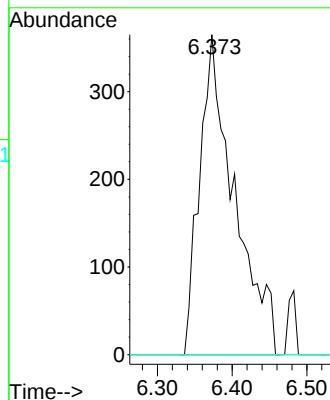
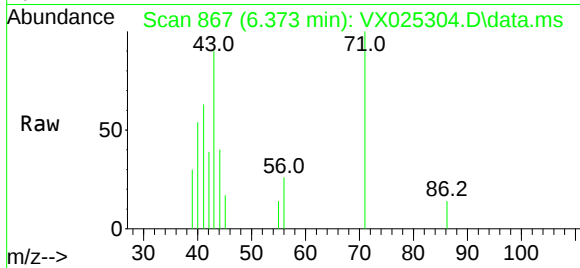




#43  
Isopropyl Acetate  
Concen: 0.379 ug/l  
RT: 6.373 min Scan# 867  
Delta R.T. 0.031 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

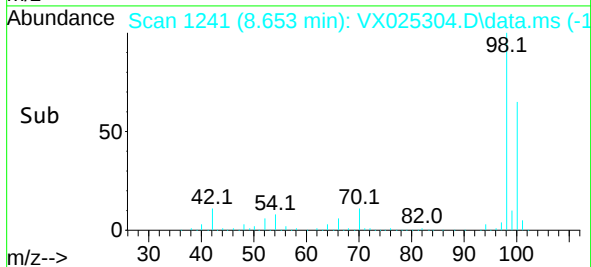
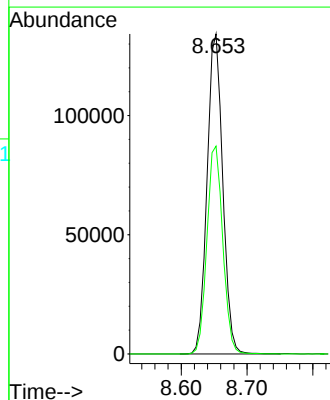
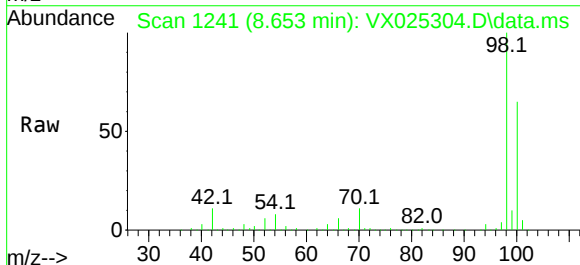
Instrument :  
MSVOA\_X  
ClientSampleId :  
HAR-22

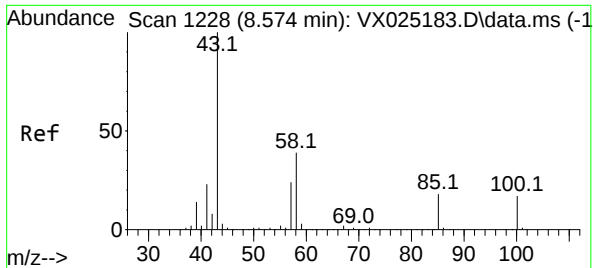
Tgt Ion: 43 Resp: 1178  
Ion Ratio Lower Upper  
43 100  
61 0.0 15.3 22.9#  
87 0.0 10.9 16.3#



#50  
Toluene-d8  
Concen: 51.201 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion: 98 Resp: 222082  
Ion Ratio Lower Upper  
98 100  
100 65.8 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 0.499 ug/l

RT: 8.653 min Scan# 11

Delta R.T. 0.079 min

Lab File: VX025304.D

Acq: 24 Nov 2021 03:08

Instrument :

MSVOA\_X

ClientSampleId :

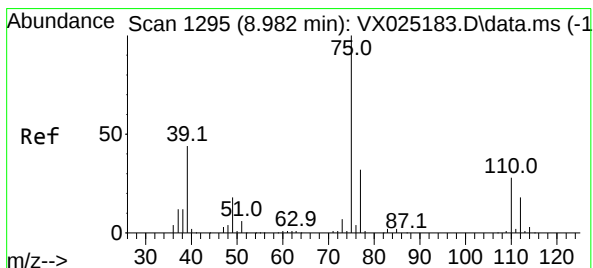
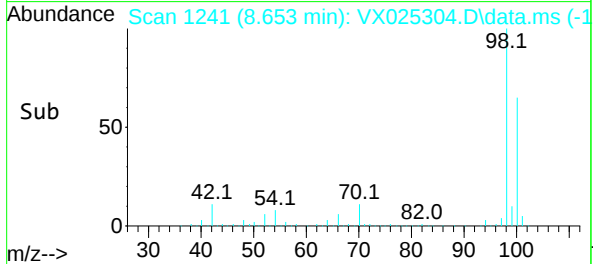
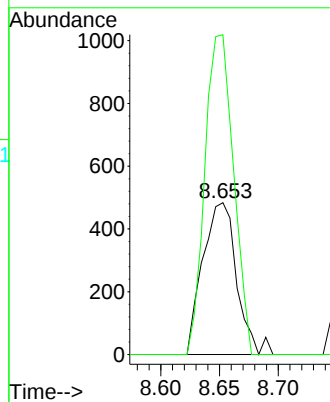
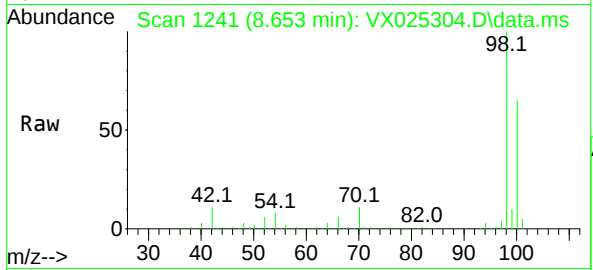
HAR-22

Tgt Ion: 43 Resp: 971

Ion Ratio Lower Upper

43 100

58 178.2 30.9 46.3#



#53

t-1,3-Dichloropropene

Concen: 0.375 ug/l

RT: 8.915 min Scan# 1284

Delta R.T. -0.067 min

Lab File: VX025304.D

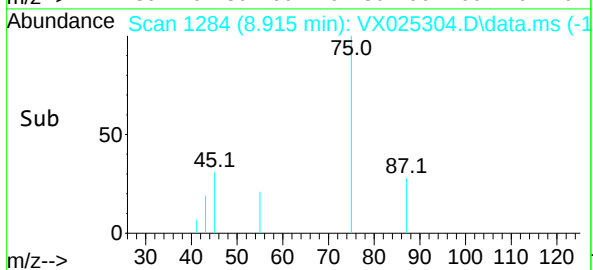
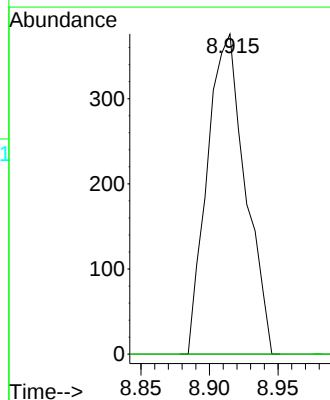
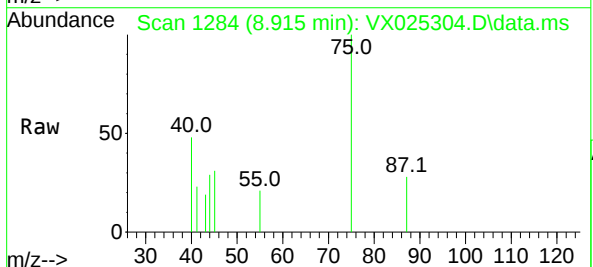
Acq: 24 Nov 2021 03:08

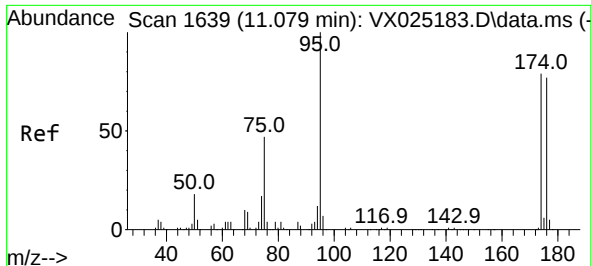
Tgt Ion: 75 Resp: 726

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#





#62

4-Bromofluorobenzene

Concen: 50.295 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX025304.D

Acq: 24 Nov 2021 03:08

Instrument :

MSVOA\_X

ClientSampleId :

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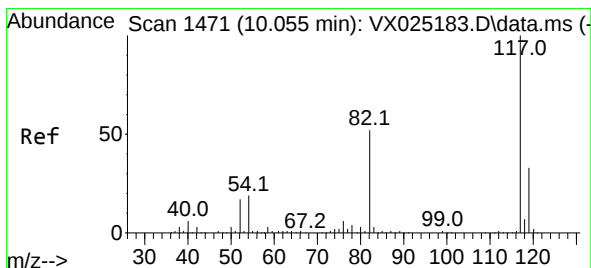
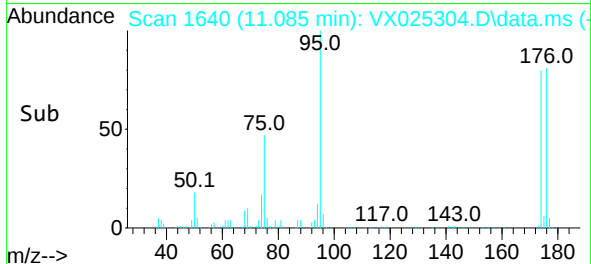
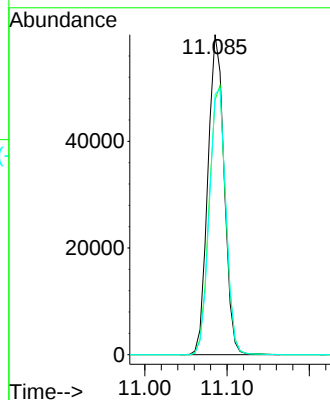
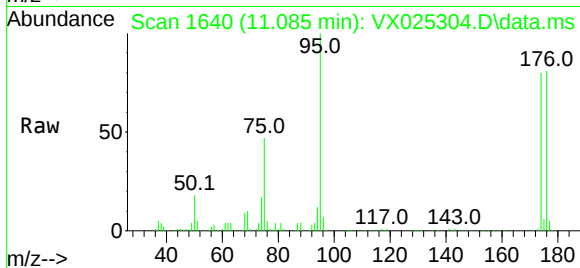
Tgt Ion: 95 Resp: 82528

Ion Ratio Lower Upper

95 100

174 85.5 0.0 158.0

176 84.8 0.0 153.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. 0.006 min

Lab File: VX025304.D

Acq: 24 Nov 2021 03:08

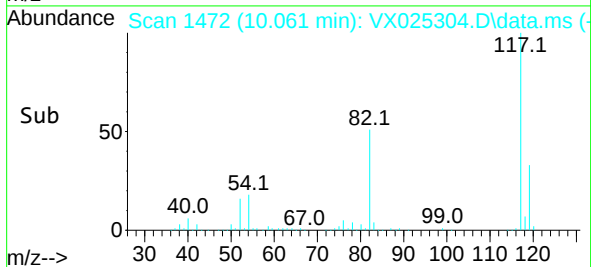
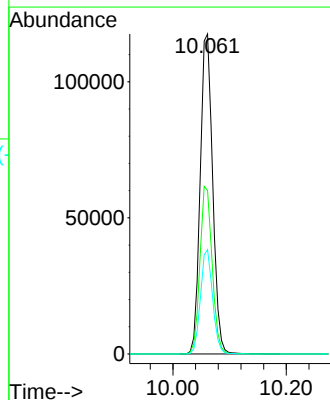
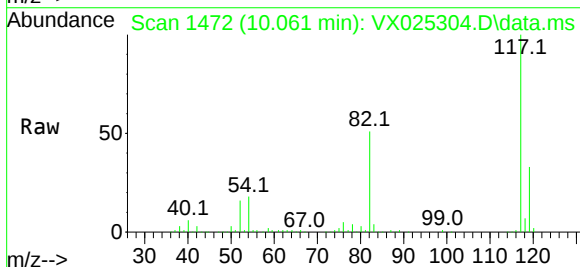
Tgt Ion: 117 Resp: 179165

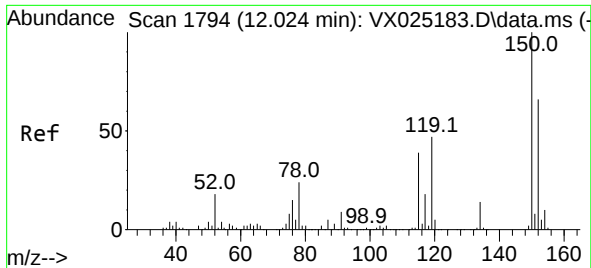
Ion Ratio Lower Upper

117 100

82 51.1 44.6 67.0

119 32.6 24.8 37.2

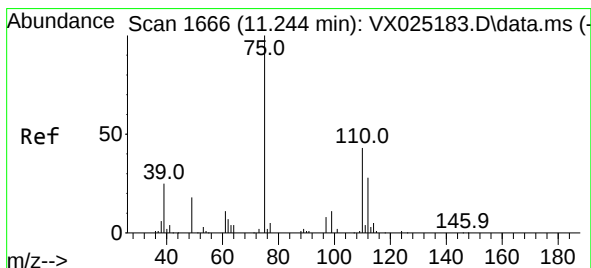
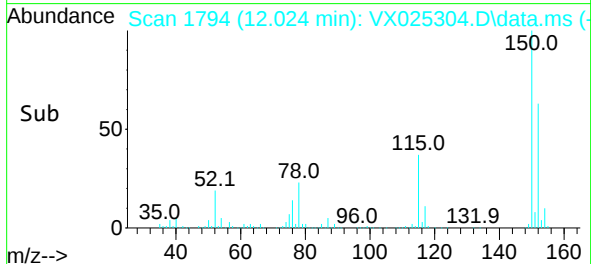
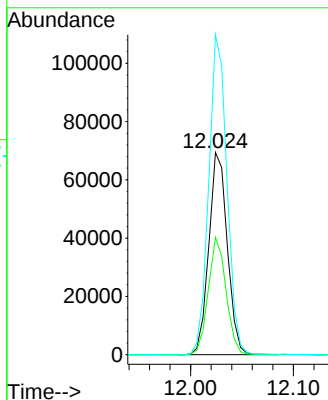
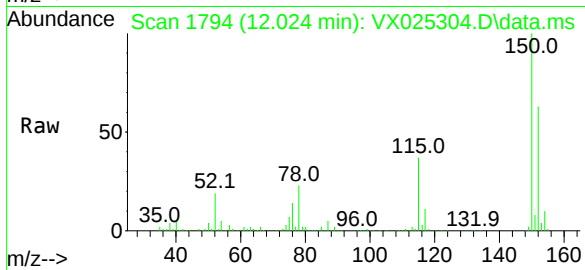




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX025304.D  
 Acq: 24 Nov 2021 03:08

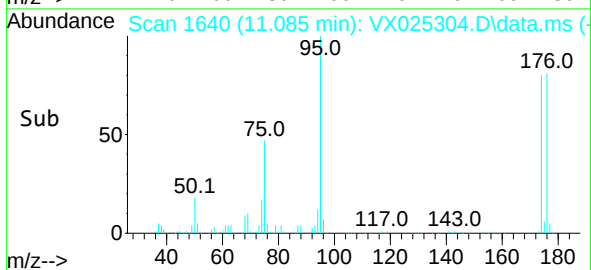
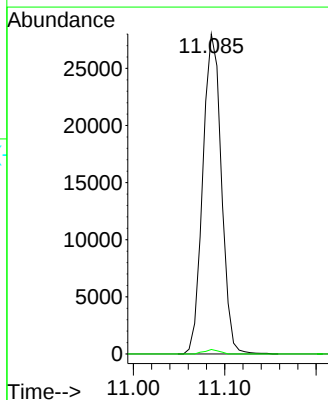
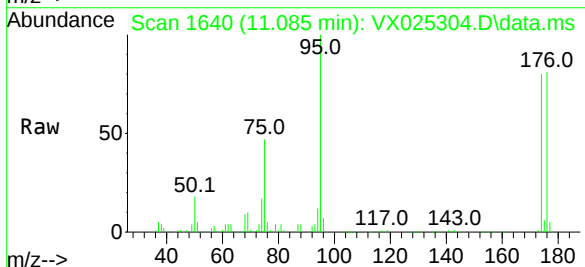
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 HAR-22

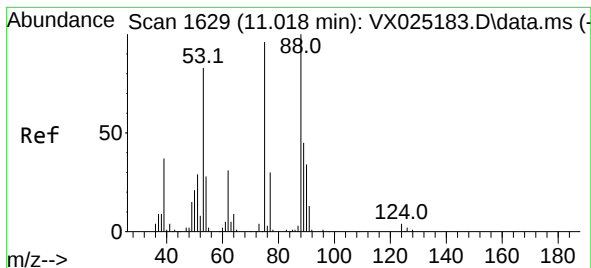
Tgt Ion:152 Resp: 86605  
 Ion Ratio Lower Upper  
 152 100  
 115 56.0 43.3 129.8  
 150 155.6 0.0 351.2



#76  
 1,2,3-Trichloropropane  
 Concen: 22.266 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. -0.159 min  
 Lab File: VX025304.D  
 Acq: 24 Nov 2021 03:08

Tgt Ion: 75 Resp: 39488  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 20.0 59.9#

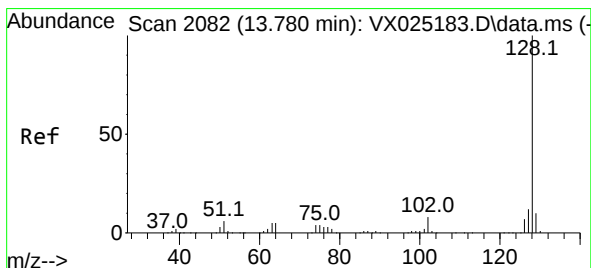
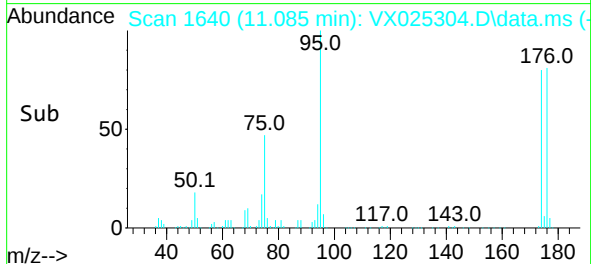
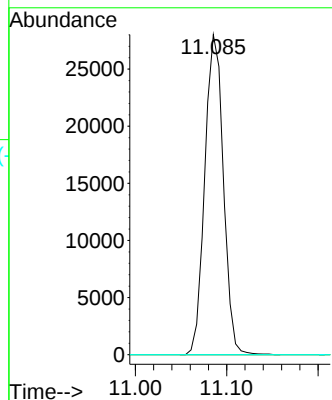
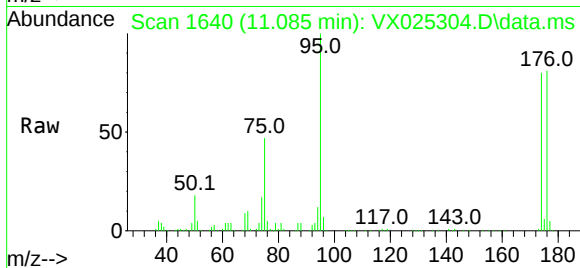




#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.091 ug/l  
RT: 11.085 min Scan# 1  
Delta R.T. 0.067 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
HAR-22

Tgt Ion: 75 Resp: 39488  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.0 38.2 57.2#



#95  
Naphthalene  
Concen: 0.321 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX025304.D  
Acq: 24 Nov 2021 03:08

Tgt Ion: 128 Resp: 4052  
Ion Ratio Lower Upper  
128 100  
127 11.7 10.3 15.5  
129 10.3 8.8 13.2

