

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080822\  
 Data File : VN073771.D  
 Acq On : 08 Aug 2022 15:36  
 Operator : JC\MD  
 Sample : N4041-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 001-WILLETS-PT-BLVD(AUG)

Quant Time: Aug 09 00:27:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N072722W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jul 27 18:07:26 2022  
 Response via : Initial Calibration

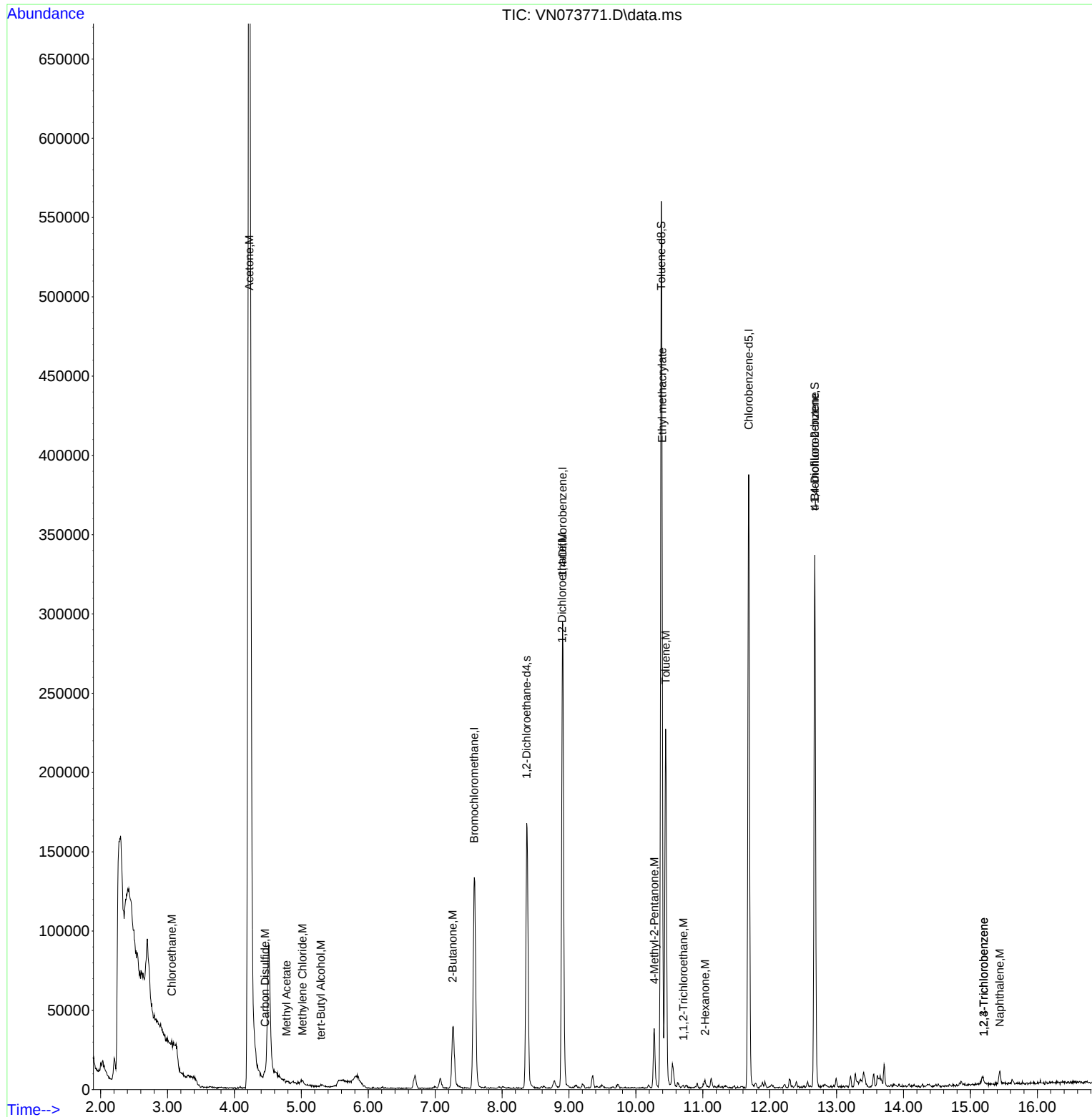
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.581  | 128   | 52839    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.904  | 114   | 263708   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.686 | 117   | 238988   | 30.000   | ug/l   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.369  | 65    | 137090   | 30.007   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 100.033% |
| 60) 4-Bromofluorobenzene    | 12.674 | 95    | 109547   | 25.888   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 86.300%  |
| 63) Toluene-d8              | 10.380 | 98    | 400530   | 29.764   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 99.200%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 6) Chloroethane             | 3.063  | 64    | 1276     | 0.323    | ug/l # | 59       |
| 12) Methyl Acetate          | 4.781  | 43    | 1210     | 0.215    | ug/l # | 49       |
| 15) Acetone                 | 4.222  | 58    | 539924   | 748.492  | ug/l   | 90       |
| 16) Carbon Disulfide        | 4.457  | 76    | 13589    | 1.503    | ug/l   | 97       |
| 18) Methylene Chloride      | 5.016  | 84    | 1038     | 0.248    | ug/l # | 37       |
| 23) tert-Butyl Alcohol      | 5.293  | 59    | 960      | 1.047    | ug/l # | 100      |
| 30) 2-Butanone              | 7.263  | 43    | 65034    | 19.093   | ug/l   | 100      |
| 36) 1,2-Dichloroethane      | 8.898  | 62    | 8203     | 1.560    | ug/l # | 77       |
| 50) 1,1,2-Trichloroethane   | 10.710 | 97    | 1343     | 0.328    | ug/l # | 16       |
| 51) Ethyl methacrylate      | 10.392 | 69    | 1405     | 0.228    | ug/l   | 69       |
| 58) 4-Methyl-2-Pentanone    | 10.275 | 43    | 25102    | 4.062    | ug/l   | 95       |
| 59) 2-Hexanone              | 11.033 | 43    | 4105     | 0.862    | ug/l # | 72       |
| 62) Toluene                 | 10.445 | 91    | 173602   | 10.446   | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene | 12.674 | 75    | 54861    | 29.726   | ug/l # | 8        |
| 89) 1,2,4-Trichlorobenzene  | 15.198 | 180   | 929      | 0.213    | ug/l # | 66       |
| 91) Naphthalene             | 15.439 | 128   | 8672     | 0.605    | ug/l # | 92       |
| 92) 1,2,3-Trichlorobenzene  | 15.198 | 180   | 929      | 0.207    | ug/l   | 67       |
| -----                       |        |       |          |          |        |          |

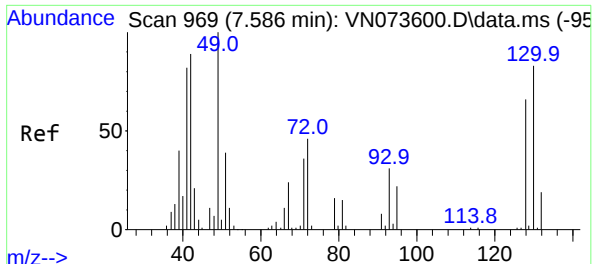
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080822\  
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Sample : N4041-01  
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ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

Quant Time: Aug 09 00:27:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N072722W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Jul 27 18:07:26 2022  
Response via : Initial Calibration

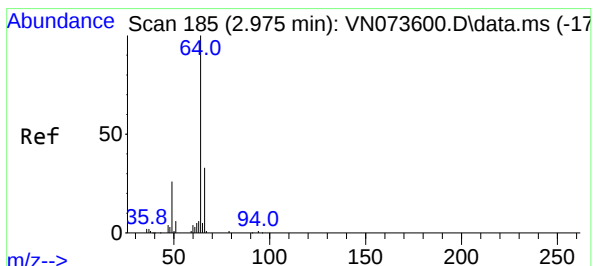
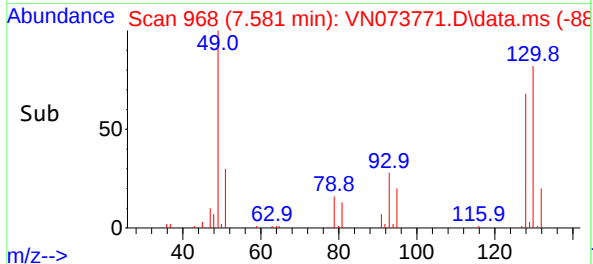
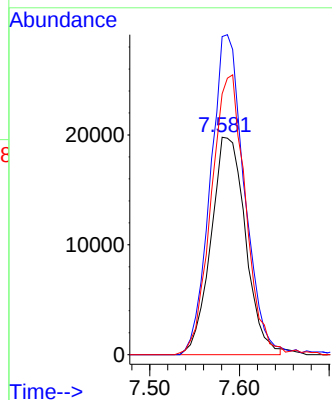
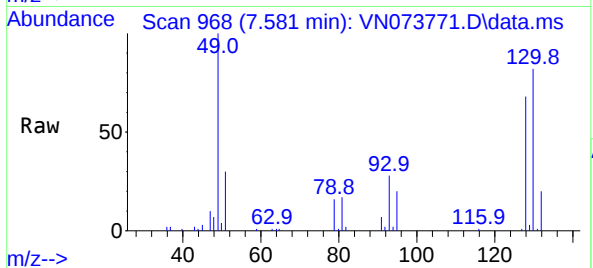




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.581 min Scan# 90  
Delta R.T. -0.005 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

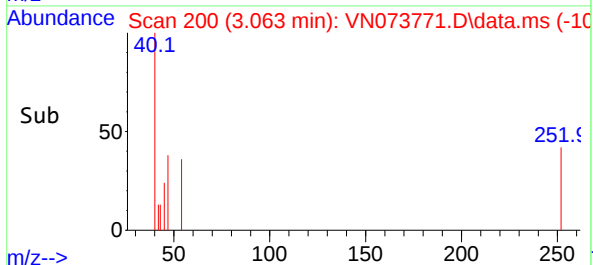
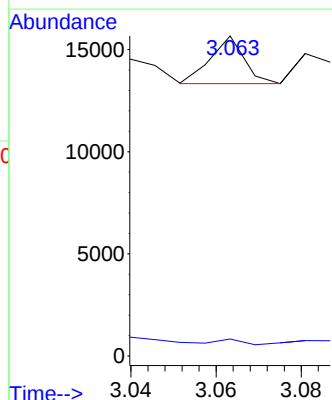
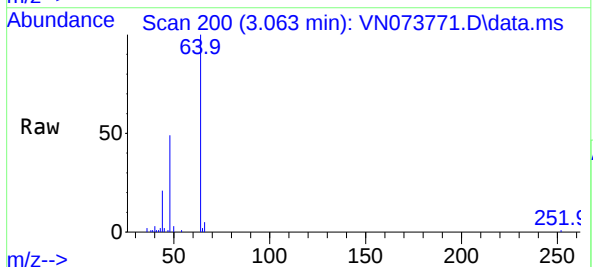
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

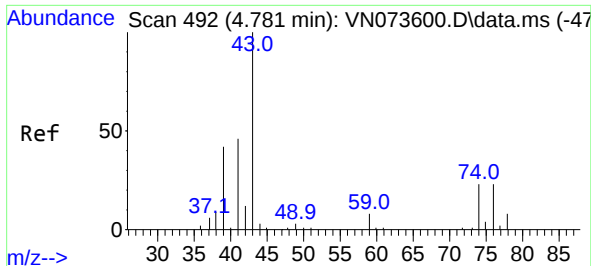
Tgt Ion:128 Resp: 52839  
Ion Ratio Lower Upper  
128 100  
49 144.5 0.0 392.3  
130 126.7 0.0 320.2



#6  
Chloroethane  
Concen: 0.323 ug/l  
RT: 3.063 min Scan# 200  
Delta R.T. 0.088 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

Tgt Ion: 64 Resp: 1276  
Ion Ratio Lower Upper  
64 100  
66 8.1 24.6 36.8#

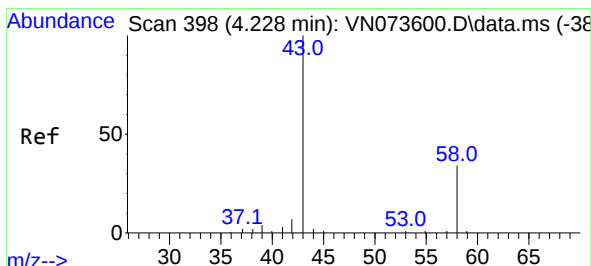
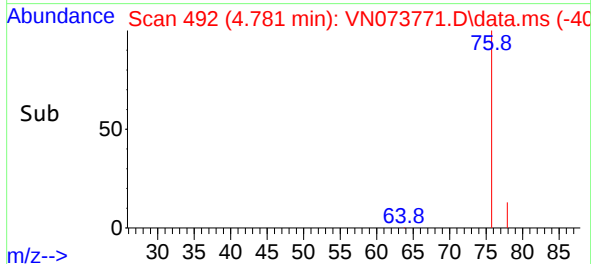
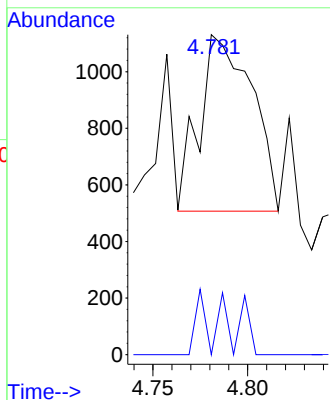
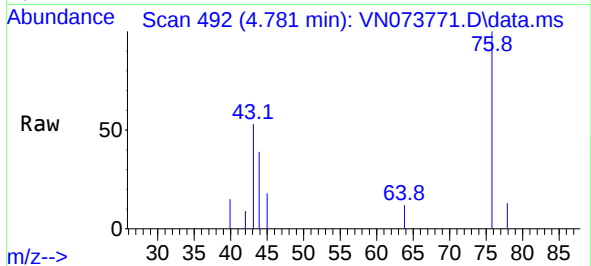




#12  
Methyl Acetate  
Concen: 0.215 ug/l  
RT: 4.781 min Scan# 492  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

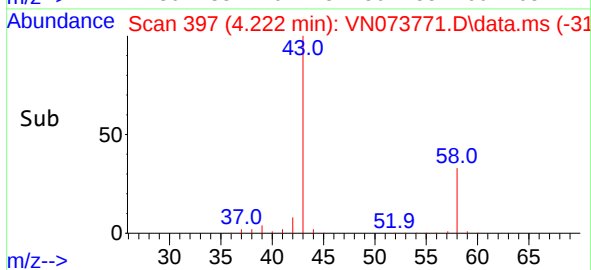
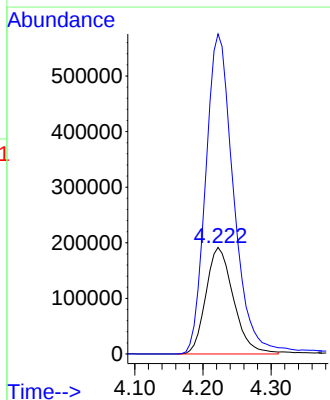
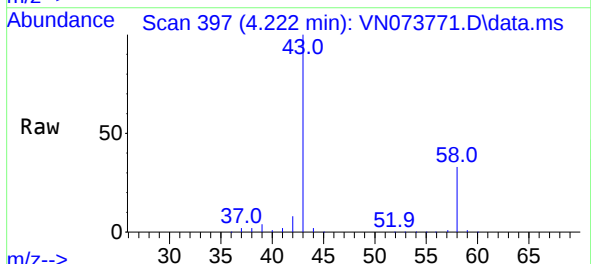
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

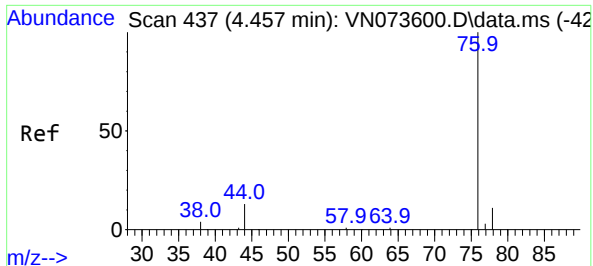
Tgt Ion: 43 Resp: 1210  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.8 31.2#



#15  
Acetone  
Concen: 748.492 ug/l  
RT: 4.222 min Scan# 397  
Delta R.T. -0.006 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

Tgt Ion: 58 Resp: 539924  
Ion Ratio Lower Upper  
58 100  
43 300.4 256.6 384.8

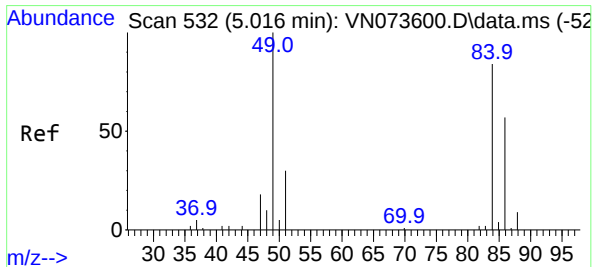
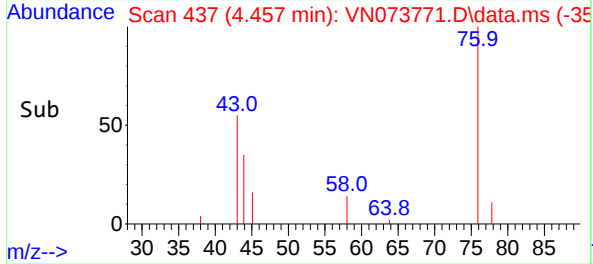
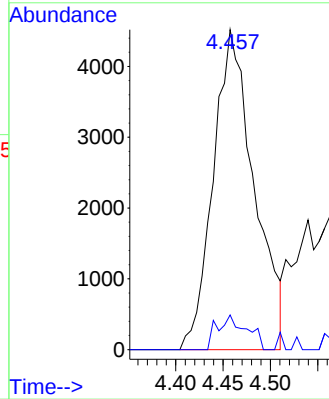
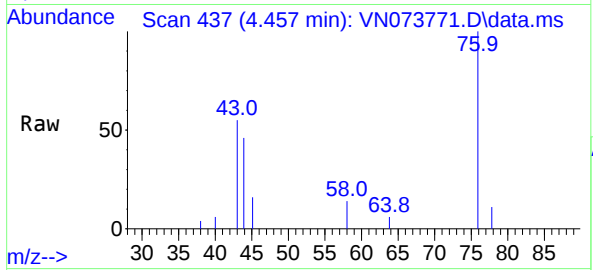




#16  
Carbon Disulfide  
Concen: 1.503 ug/l  
RT: 4.457 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

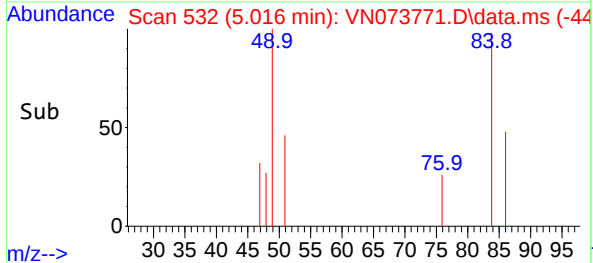
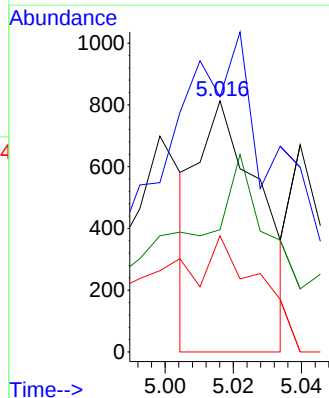
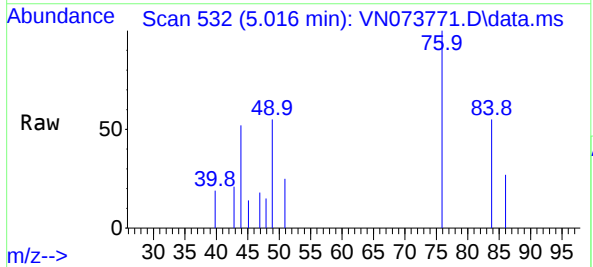
Instrument :  
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ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

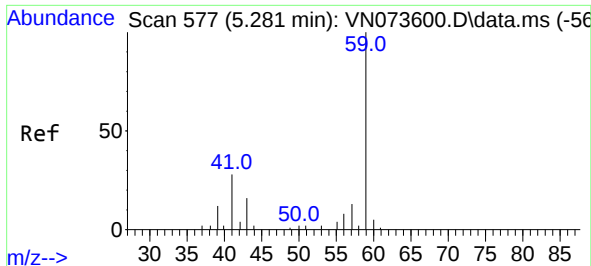
Tgt Ion: 76 Resp: 13589  
Ion Ratio Lower Upper  
76 100  
78 10.8 7.8 11.8



#18  
Methylene Chloride  
Concen: 0.248 ug/l  
RT: 5.016 min Scan# 532  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

Tgt Ion: 84 Resp: 1038  
Ion Ratio Lower Upper  
84 100  
49 35.5 91.4 137.0#  
51 45.7 29.4 44.0#  
86 7.5 51.1 76.7#





#23

tert-Butyl Alcohol

Concen: 1.047 ug/l

RT: 5.293 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN073771.D

Acq: 08 Aug 2022 15:36

Instrument :

MSVOA\_N

ClientSampleId :

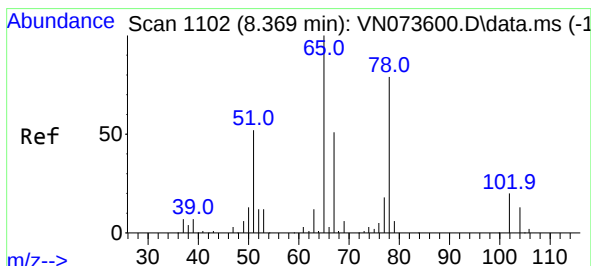
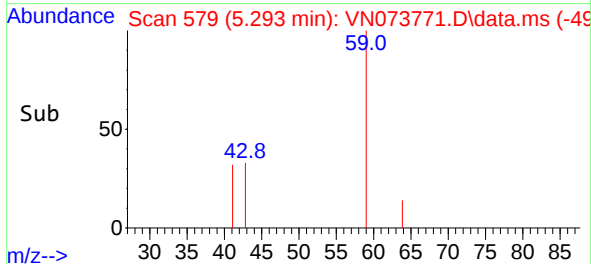
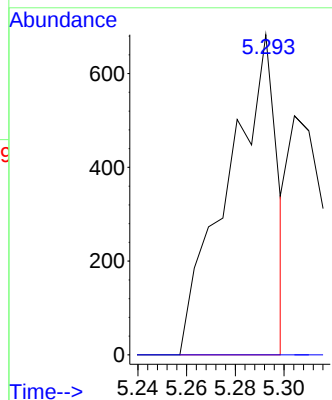
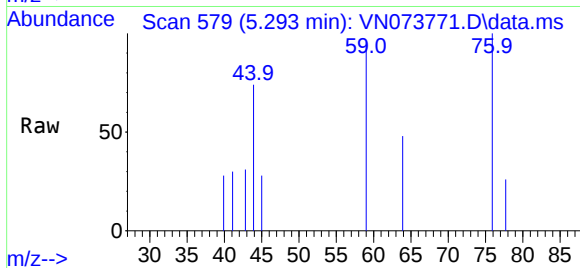
001-WILLETS-PT-BLVD(AUG)

Tgt Ion: 59 Resp: 960

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 30.007 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN073771.D

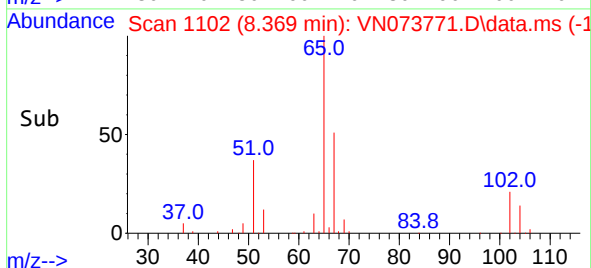
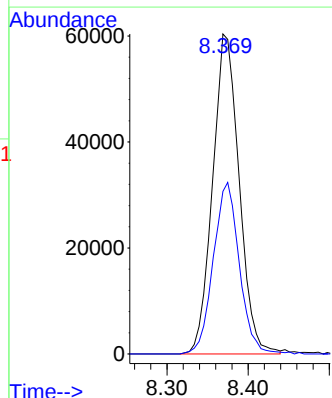
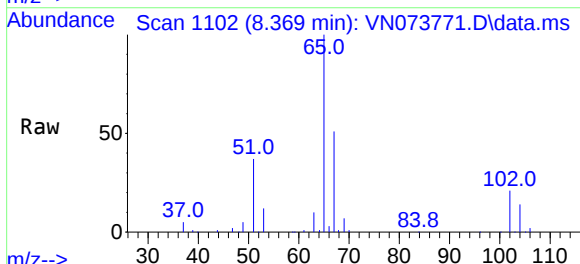
Acq: 08 Aug 2022 15:36

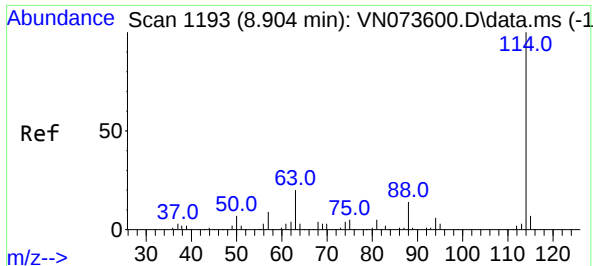
Tgt Ion: 65 Resp: 137090

Ion Ratio Lower Upper

65 100

67 52.5 40.2 60.2

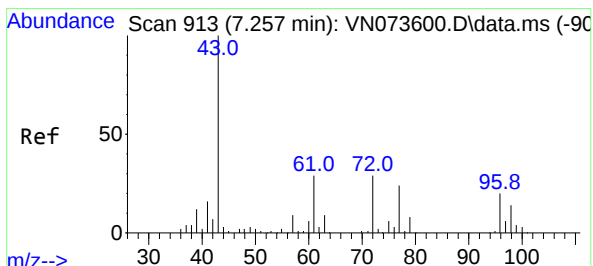
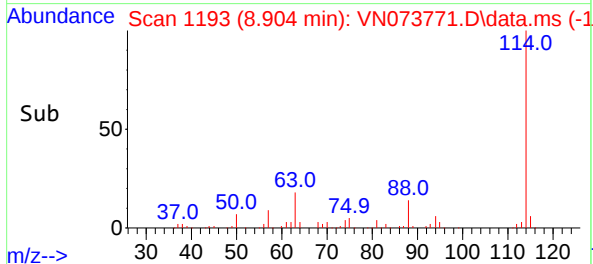
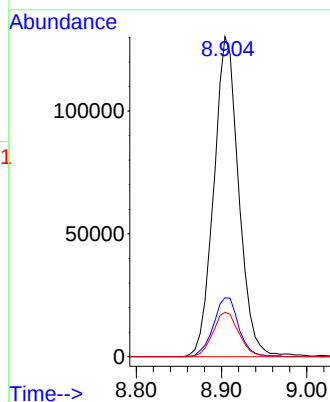
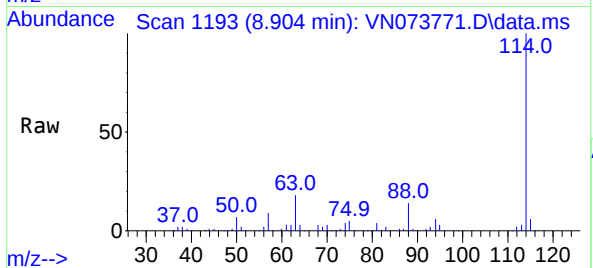




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.904 min Scan# 1193  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

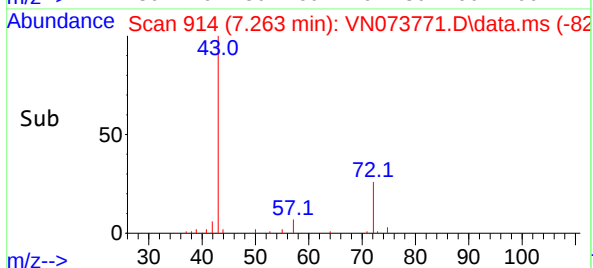
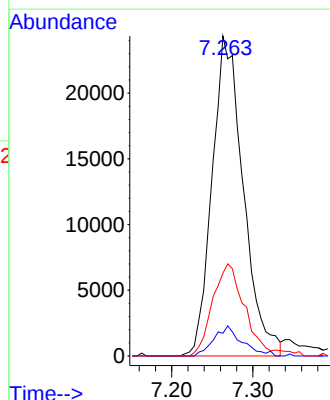
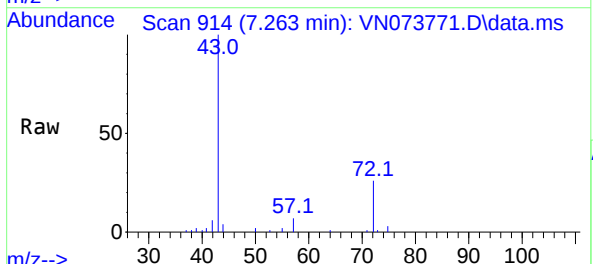
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

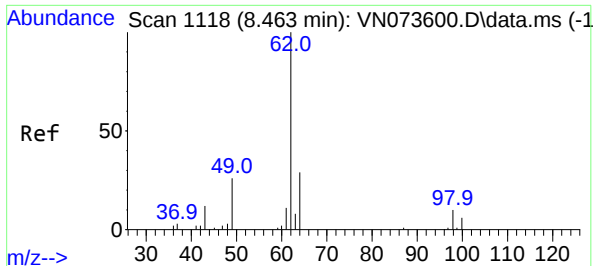
Tgt Ion:114 Resp: 263708  
Ion Ratio Lower Upper  
114 100  
63 18.9 15.8 23.6  
88 14.6 11.6 17.4



#30  
2-Butanone  
Concen: 19.093 ug/l  
RT: 7.263 min Scan# 914  
Delta R.T. 0.006 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

Tgt Ion: 43 Resp: 65034  
Ion Ratio Lower Upper  
43 100  
57 8.2 6.7 10.1  
72 29.1 23.2 34.8





#36

1,2-Dichloroethane

Concen: 1.560 ug/l

RT: 8.898 min Scan# 1118

Delta R.T. 0.435 min

Lab File: VN073771.D

Acq: 08 Aug 2022 15:36

Instrument :

MSVOA\_N

ClientSampleId :

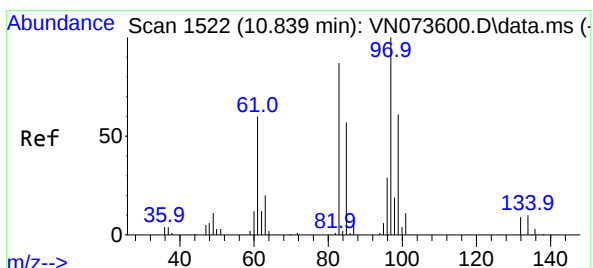
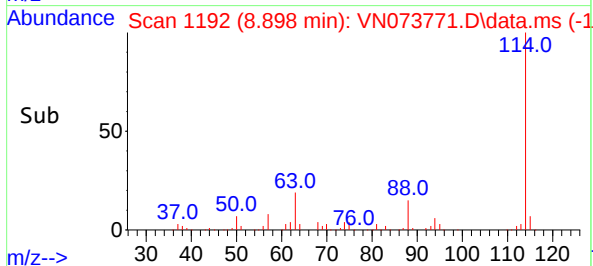
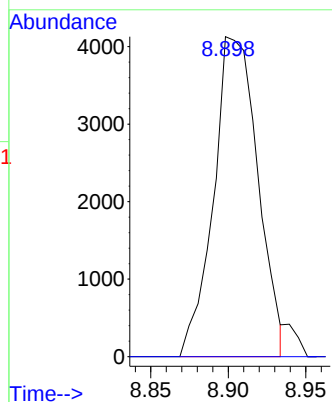
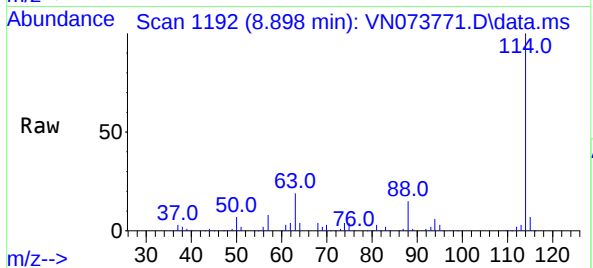
001-WILLETS-PT-BLVD(AUG)

Tgt Ion: 62 Resp: 8203

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



#50

1,1,2-Trichloroethane

Concen: 0.328 ug/l

RT: 10.710 min Scan# 1500

Delta R.T. -0.129 min

Lab File: VN073771.D

Acq: 08 Aug 2022 15:36

Tgt Ion: 97 Resp: 1343

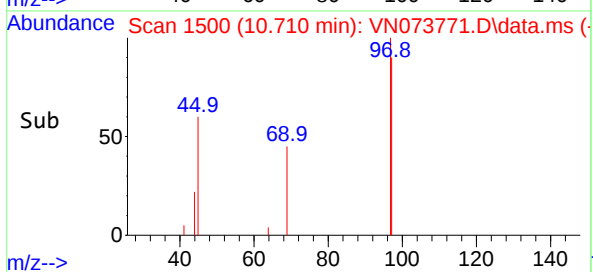
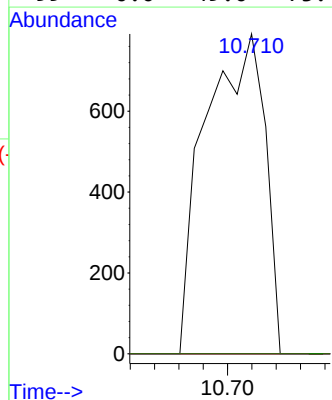
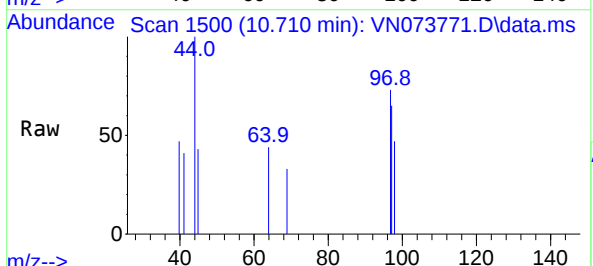
Ion Ratio Lower Upper

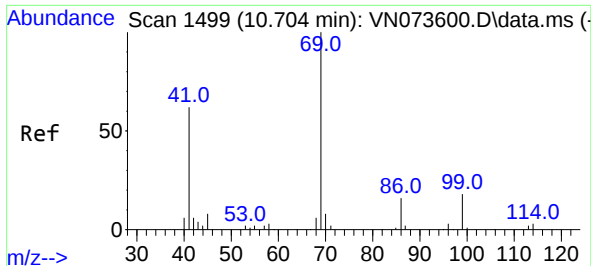
97 100

83 0.0 67.2 100.8#

85 0.0 43.0 64.4#

99 0.0 49.0 73.4#

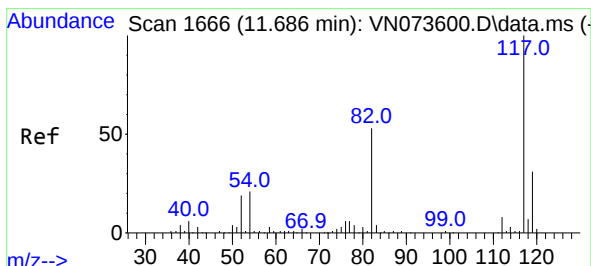
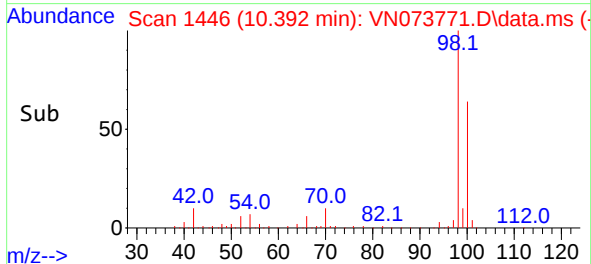
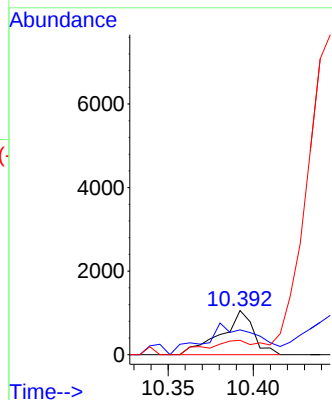
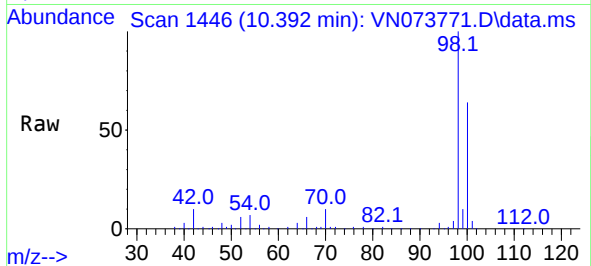




#51  
Ethyl methacrylate  
Concen: 0.228 ug/l  
RT: 10.392 min Scan# 1499  
Delta R.T. -0.312 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

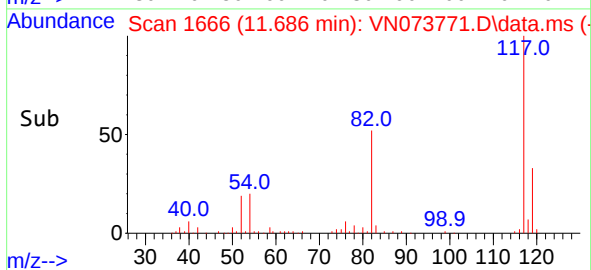
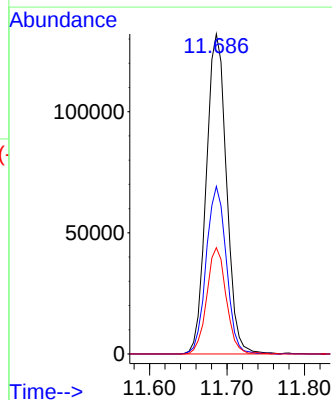
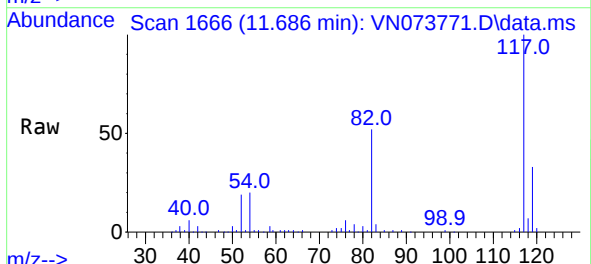
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

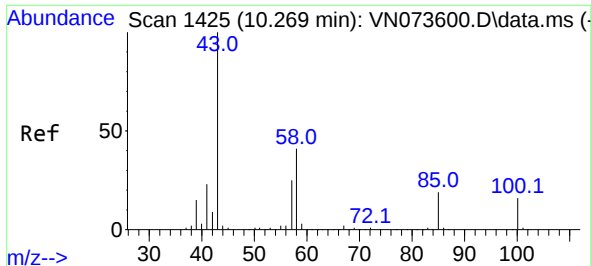
Tgt Ion: 69 Resp: 1405  
Ion Ratio Lower Upper  
69 100  
41 37.9 33.0 98.9  
39 32.5 25.4 76.4



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

Tgt Ion: 117 Resp: 238988  
Ion Ratio Lower Upper  
117 100  
82 52.0 43.6 65.4  
119 31.9 25.8 38.6

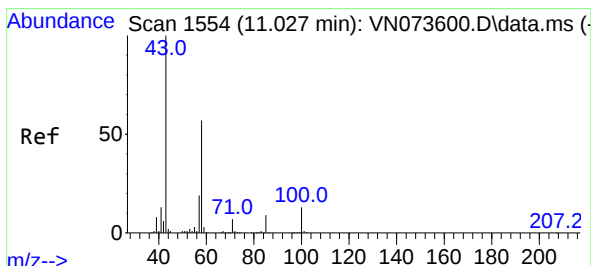
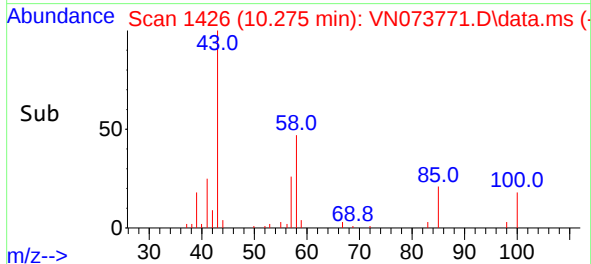
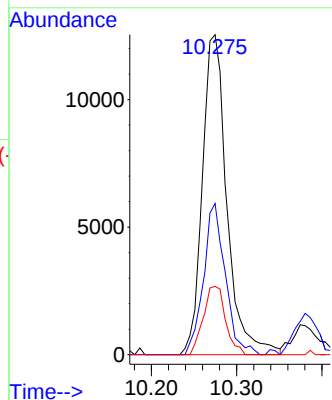
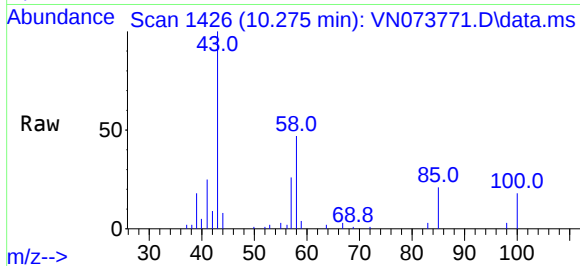




#58  
4-Methyl-2-Pentanone  
Concen: 4.062 ug/l  
RT: 10.275 min Scan# 1425  
Delta R.T. 0.006 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

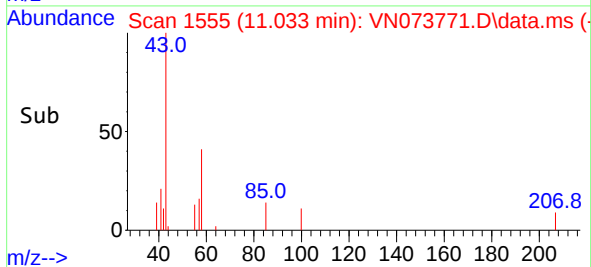
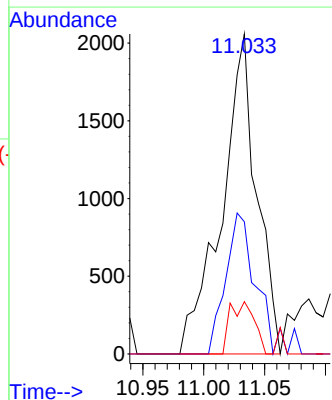
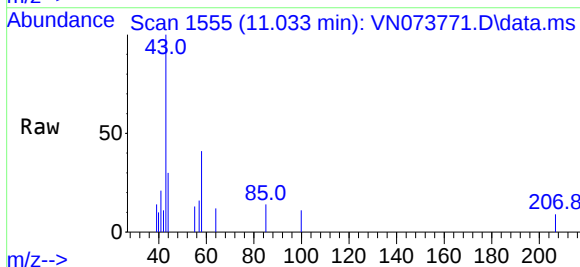
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

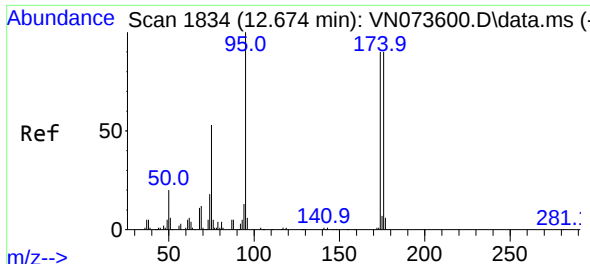
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 25102 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 41.9  | 30.0  | 45.0  |
| 85       | 19.3  | 15.0  | 22.6  |



#59  
2-Hexanone  
Concen: 0.862 ug/l  
RT: 11.033 min Scan# 1555  
Delta R.T. 0.006 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4105  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 33.5  | 42.2  | 63.2# |
| 57       | 4.9   | 15.0  | 22.4# |

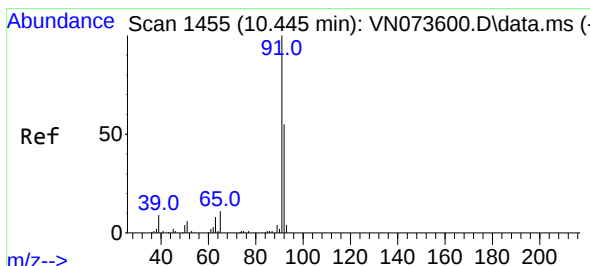
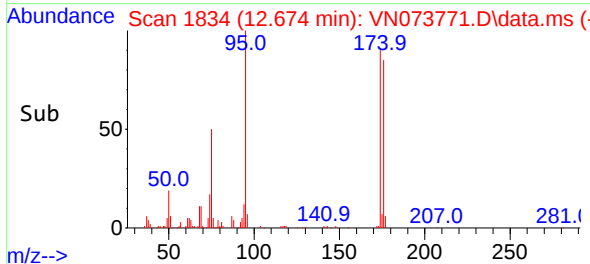
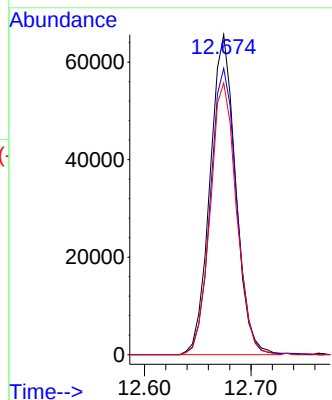
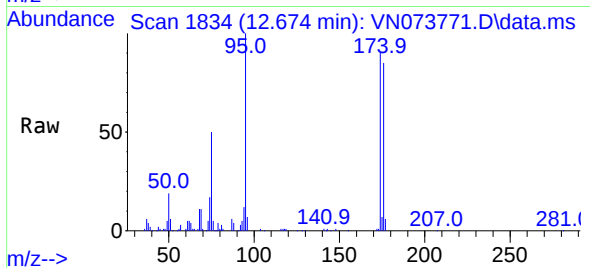




#60  
4-Bromofluorobenzene  
Concen: 25.888 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

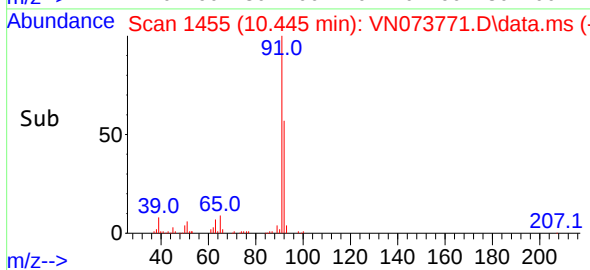
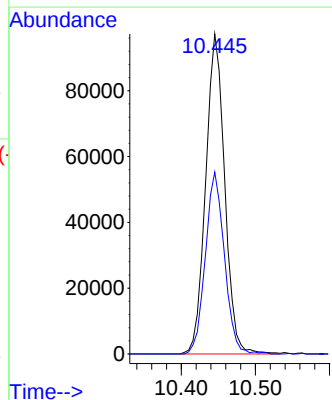
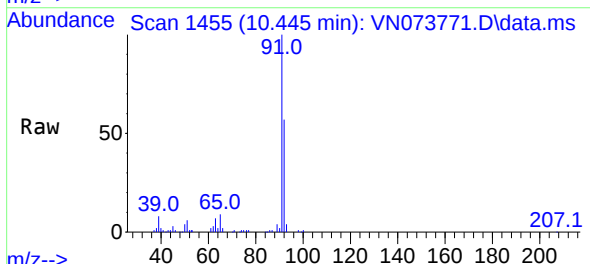
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

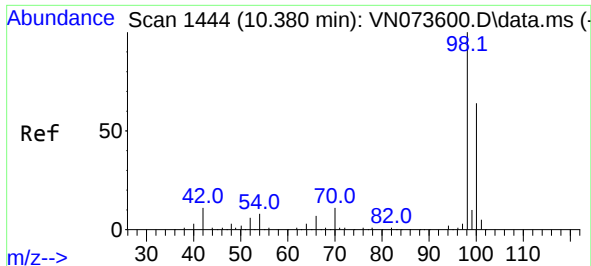
Tgt Ion: 95 Resp: 109547  
Ion Ratio Lower Upper  
95 100  
174 91.8 62.9 94.3  
176 86.6 61.0 91.4



#62  
Toluene  
Concen: 10.446 ug/l  
RT: 10.445 min Scan# 1455  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

Tgt Ion: 91 Resp: 173602  
Ion Ratio Lower Upper  
91 100  
92 56.6 44.6 67.0

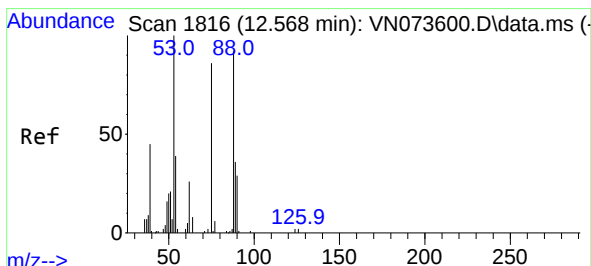
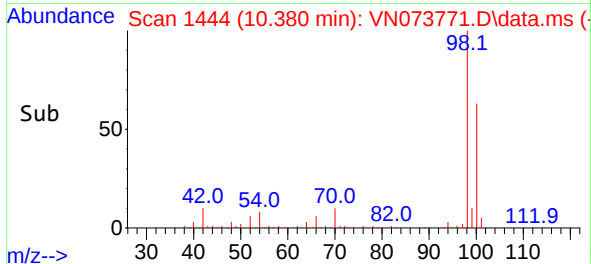
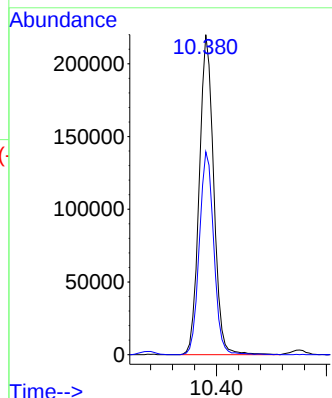
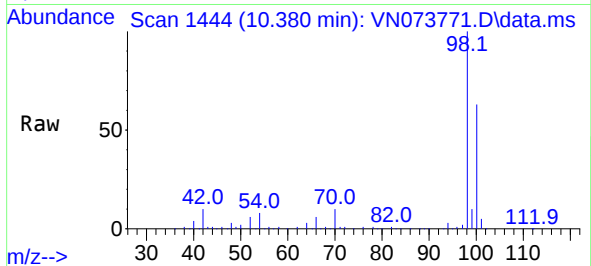




#63  
Toluene-d8  
Concen: 29.764 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

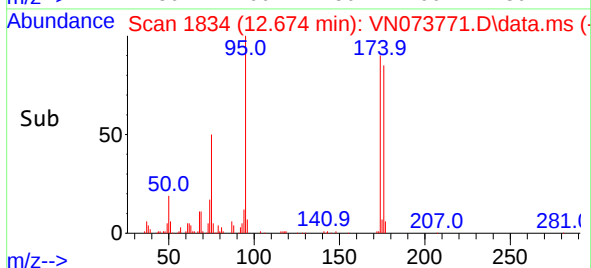
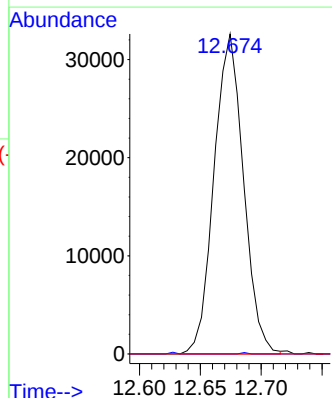
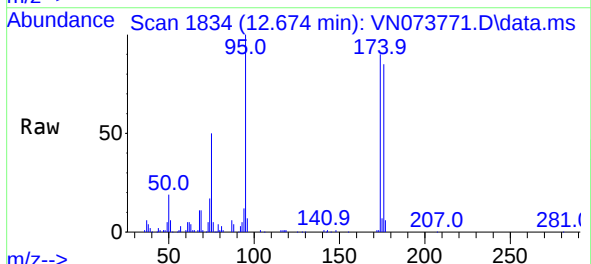
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

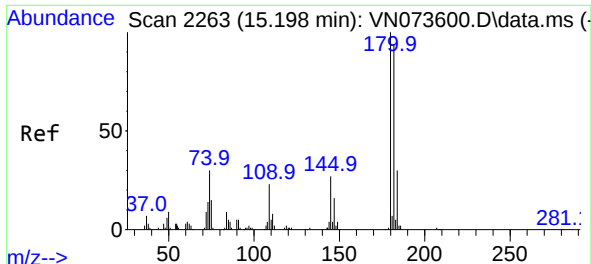
Tgt Ion: 98 Resp: 400530  
Ion Ratio Lower Upper  
98 100  
100 63.0 50.6 76.0



#77  
t-1,4-Dichloro-2-butene  
Concen: 29.726 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.106 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

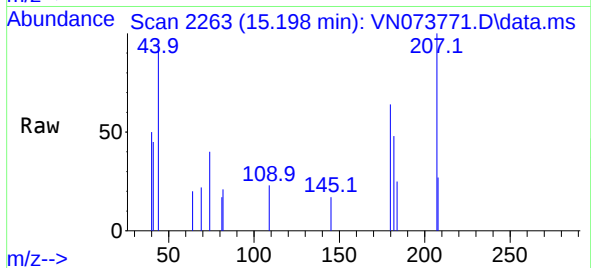
Tgt Ion: 75 Resp: 54861  
Ion Ratio Lower Upper  
75 100  
53 0.0 51.8 155.5#  
89 0.0 22.9 68.7#



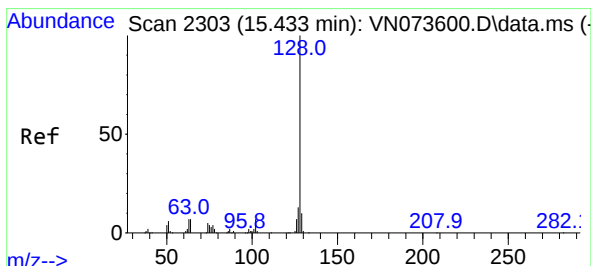
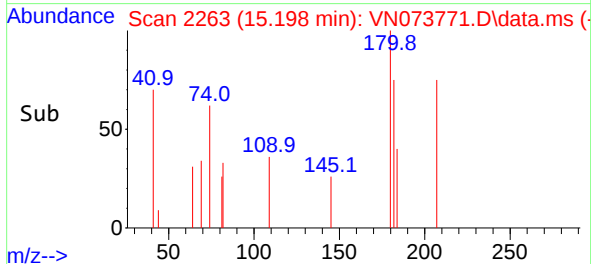
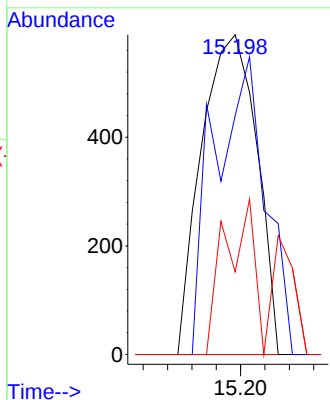


#89  
1,2,4-Trichlorobenzene  
Concen: 0.213 ug/l  
RT: 15.198 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(AUG)

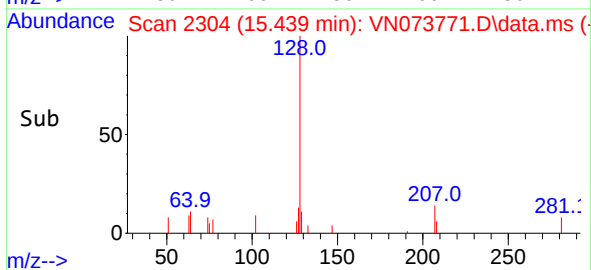
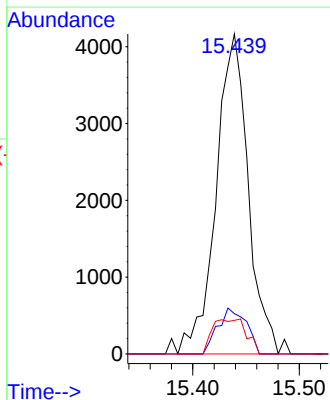
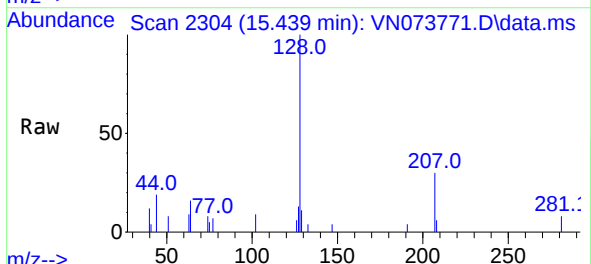


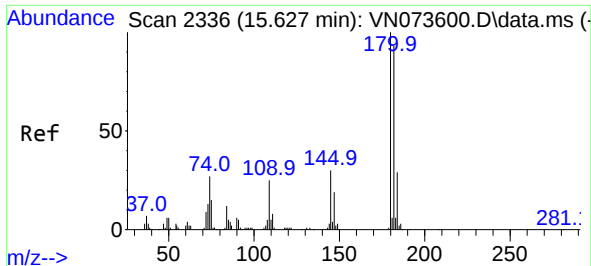
Tgt Ion:180 Resp: 929  
Ion Ratio Lower Upper  
180 100  
182 56.7 77.7 116.5#  
145 25.9 26.6 39.8#



#91  
Naphthalene  
Concen: 0.605 ug/l  
RT: 15.439 min Scan# 2304  
Delta R.T. 0.006 min  
Lab File: VN073771.D  
Acq: 08 Aug 2022 15:36

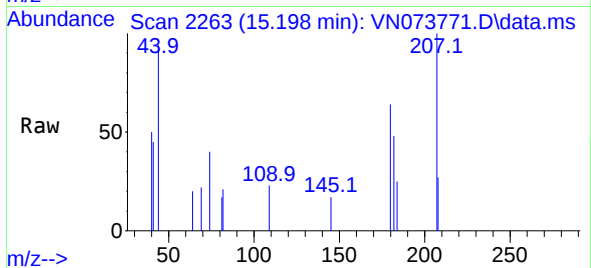
Tgt Ion:128 Resp: 8672  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.7 16.1  
129 5.3 9.0 13.6#





#92  
 1,2,3-Trichlorobenzene  
 Concen: 0.207 ug/l  
 RT: 15.198 min Scan# 21  
 Delta R.T. -0.429 min  
 Lab File: VN073771.D  
 Acq: 08 Aug 2022 15:36

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 001-WILLETS-PT-BLVD(AUG)



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 929   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 56.7  | 0.0   | 190.0 |
| 145      | 25.9  | 0.0   | 67.8  |

