

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062323\  
 Data File : VN078382.D  
 Acq On : 23 Jun 2023 16:51  
 Operator : JC\MD  
 Sample : 03395-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002-35TH-AVE(JUNE)

Quant Time: Jun 24 01:23:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N062323W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 24 00:59:50 2023  
 Response via : Initial Calibration

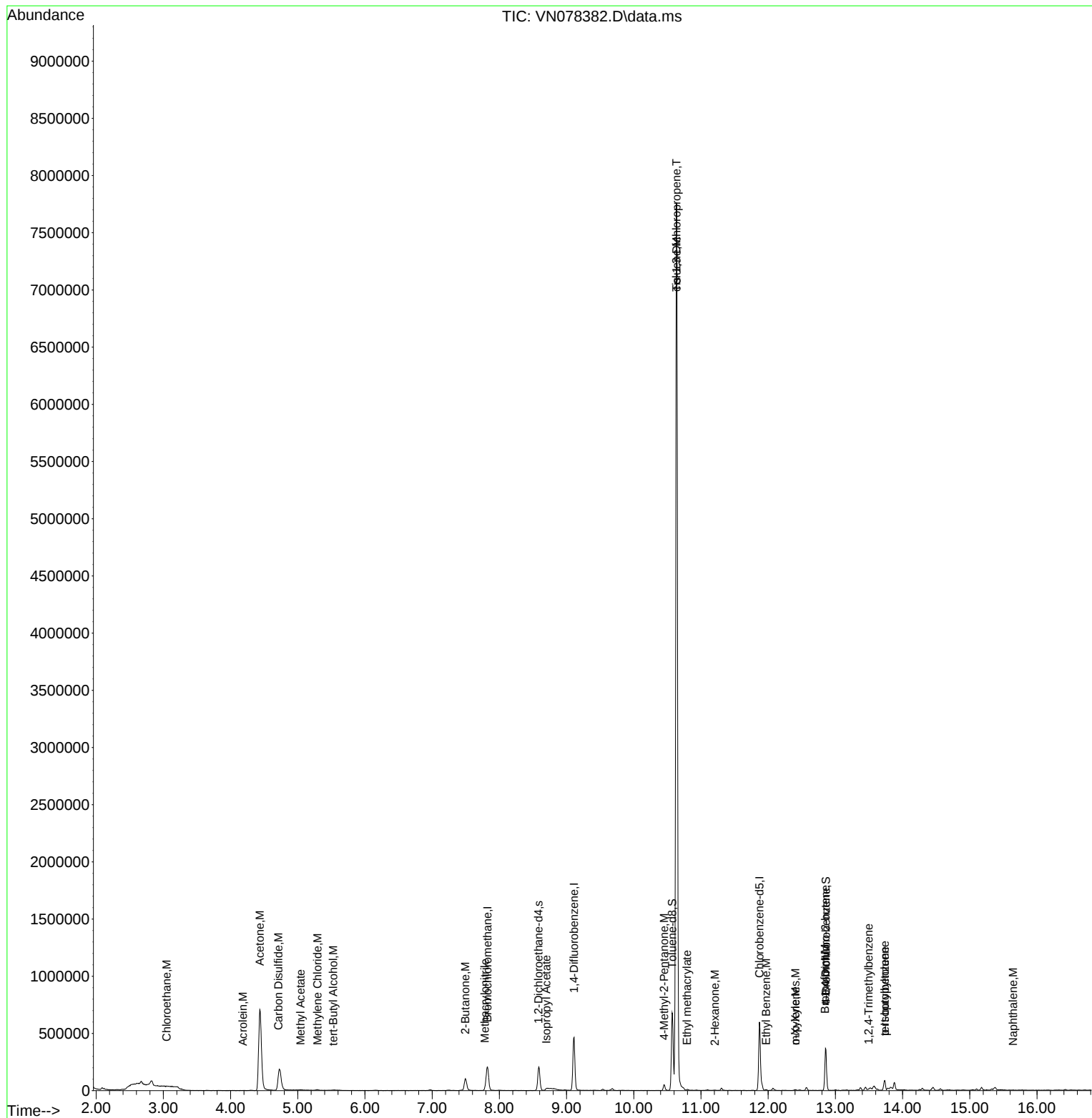
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.824  | 128   | 74409    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.112  | 114   | 418905   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.870 | 117   | 358185   | 30.000   | ug/l   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.582  | 65    | 169035   | 30.167   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 100.567% |
| 60) 4-Bromofluorobenzene    | 12.859 | 95    | 131150   | 25.989   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 86.633%  |
| 63) Toluene-d8              | 10.571 | 98    | 501938   | 28.922   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 96.400%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 6) Chloroethane             | 3.047  | 64    | 5114     | 1.074    | ug/l # | 69       |
| 12) Methyl Acetate          | 5.041  | 43    | 1331     | 0.205    | ug/l # | 52       |
| 13) Acrolein                | 4.183  | 56    | 251      | 0.308    | ug/l   | 96       |
| 15) Acetone                 | 4.436  | 58    | 435280   | 866.037  | ug/l   | 93       |
| 16) Carbon Disulfide        | 4.712  | 76    | 4838     | 0.422    | ug/l # | 93       |
| 18) Methylene Chloride      | 5.294  | 84    | 3578     | 0.720    | ug/l # | 85       |
| 23) tert-Butyl Alcohol      | 5.530  | 59    | 1695     | 2.574    | ug/l # | 100      |
| 30) 2-Butanone              | 7.494  | 43    | 159509   | 70.078   | ug/l # | 97       |
| 35) Methacrylonitrile       | 7.782  | 41    | 1763     | 0.676    | ug/l # | 25       |
| 44) Isopropyl Acetate       | 8.700  | 43    | 8723     | 1.008    | ug/l # | 50       |
| 49) cis-1,3-Dichloropropene | 10.635 | 75    | 42841    | 5.568    | ug/l # | 1        |
| 51) Ethyl methacrylate      | 10.794 | 69    | 1630     | 0.254    | ug/l   | 88       |
| 56) Bromoform               | 12.847 | 173   | 1456     | 0.478    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 10.453 | 43    | 33525    | 7.009    | ug/l   | 98       |
| 59) 2-Hexanone              | 11.206 | 43    | 2175     | 0.658    | ug/l # | 64       |
| 62) Toluene                 | 10.635 | 91    | 6195547  | 297.206  | ug/l   | 100      |
| 66) Ethyl Benzene           | 11.970 | 91    | 5954     | 0.281    | ug/l   | 95       |
| 67) m/p-Xylenes             | 12.406 | 106   | 1999     | 0.249    | ug/l   | 90       |
| 68) o-Xylene                | 12.406 | 106   | 1999     | 0.257    | ug/l   | 96       |
| 77) t-1,4-Dichloro-2-butene | 12.853 | 75    | 71348    | 42.612   | ug/l # | 16       |
| 79) tert-butylbenzene       | 13.735 | 119   | 42340    | 3.248    | ug/l   | 61       |
| 80) 1,2,4-Trimethylbenzene  | 13.494 | 105   | 4419     | 0.295    | ug/l   | 98       |
| 82) p-Isopropyltoluene      | 13.735 | 119   | 42340    | 3.237    | ug/l   | 98       |
| 91) Naphthalene             | 15.647 | 128   | 1995     | 0.278    | ug/l # | 92       |
| -----                       |        |       |          |          |        |          |

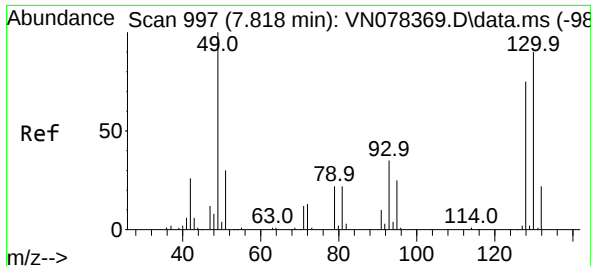
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062323\  
Data File : VN078382.D  
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Sample : 03395-02  
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ALS Vial : 20 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N062323W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Jun 24 00:59:50 2023  
Response via : Initial Calibration

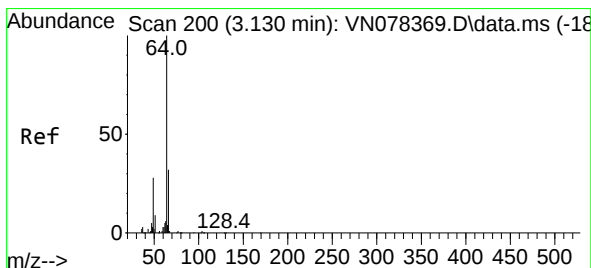
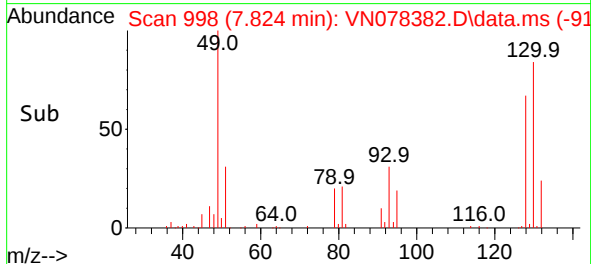
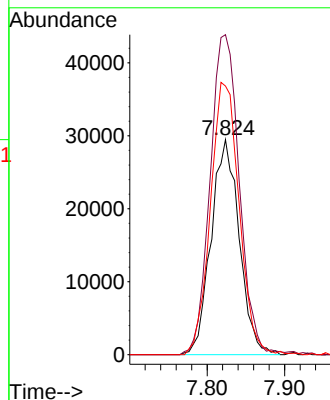
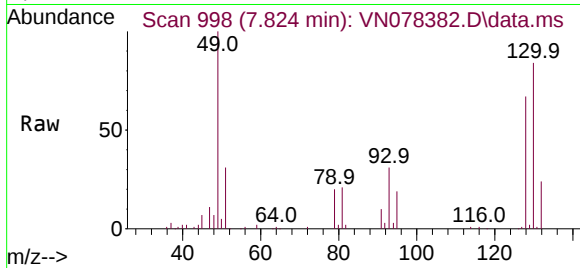




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.824 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

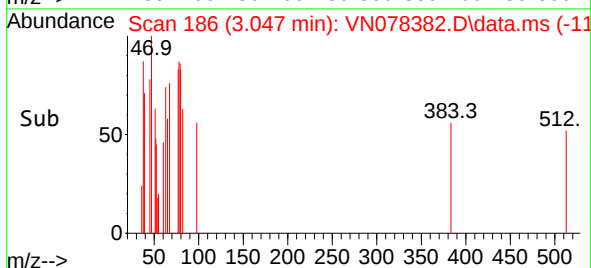
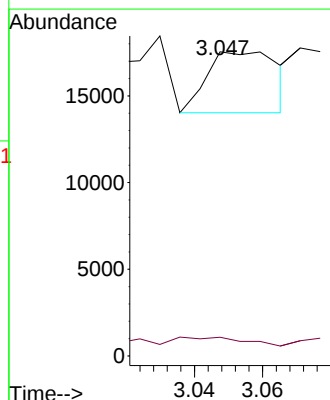
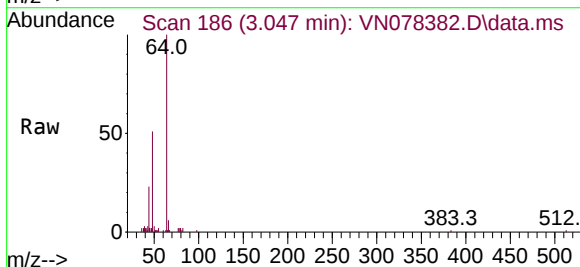
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

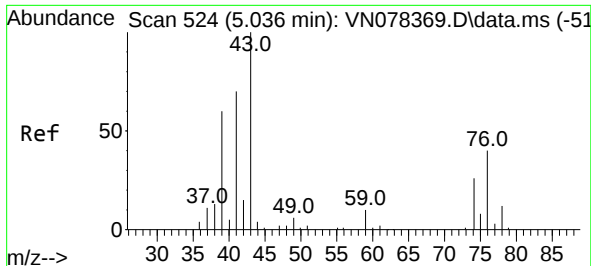
Tgt Ion:128 Resp: 74409  
Ion Ratio Lower Upper  
128 100  
49 153.2 0.0 370.8  
130 129.0 0.0 307.0



#6  
Chloroethane  
Concen: 1.074 ug/l  
RT: 3.047 min Scan# 186  
Delta R.T. -0.082 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion: 64 Resp: 5114  
Ion Ratio Lower Upper  
64 100  
66 14.5 25.7 38.5#





#12

Methyl Acetate

Concen: 0.205 ug/l

RT: 5.041 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN078382.D

Acq: 23 Jun 2023 16:51

Instrument :

MSVOA\_N

ClientSampleId :

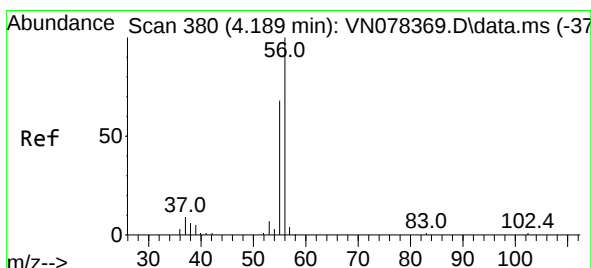
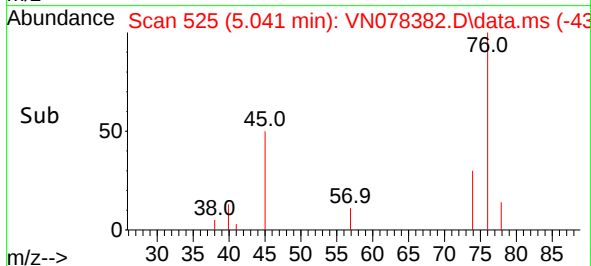
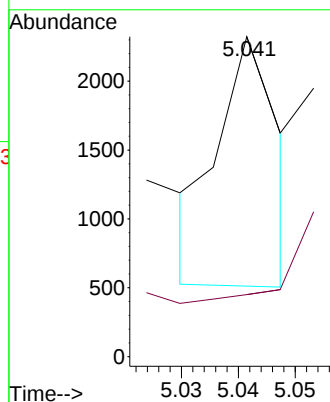
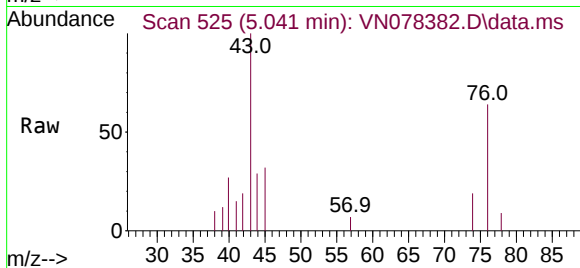
002-35TH-AVE(JUNE)

Tgt Ion: 43 Resp: 1331

Ion Ratio Lower Upper

43 100

74 1.5 20.5 30.7#



#13

Acrolein

Concen: 0.308 ug/l

RT: 4.183 min Scan# 379

Delta R.T. -0.006 min

Lab File: VN078382.D

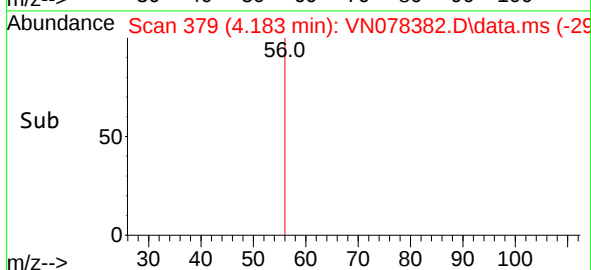
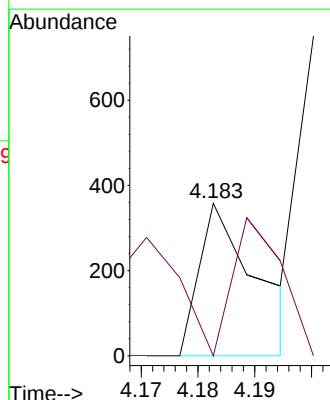
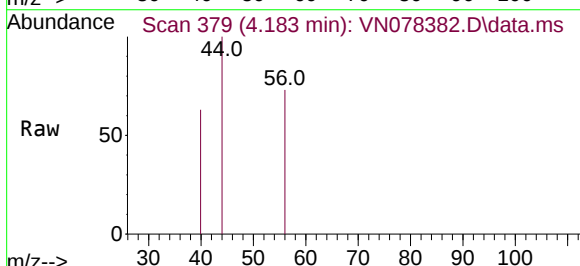
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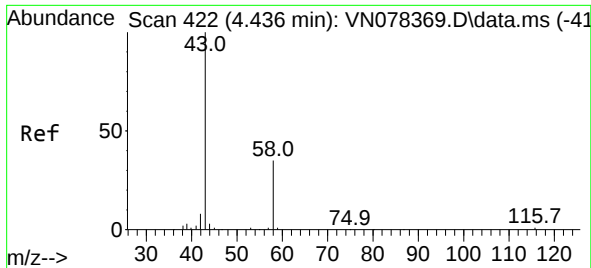
Tgt Ion: 56 Resp: 251

Ion Ratio Lower Upper

56 100

55 76.9 59.0 88.4

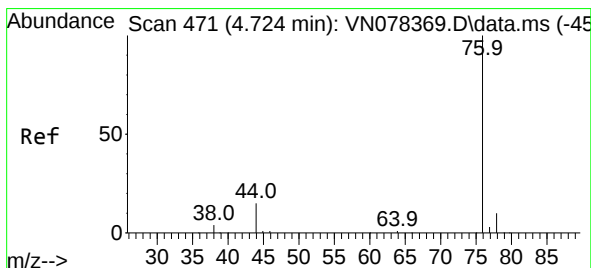
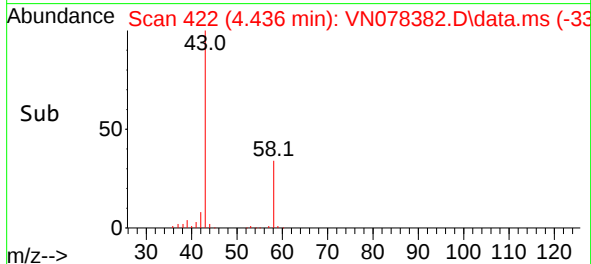
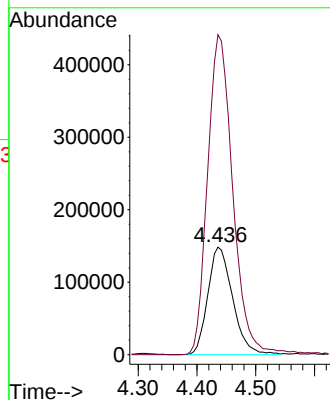
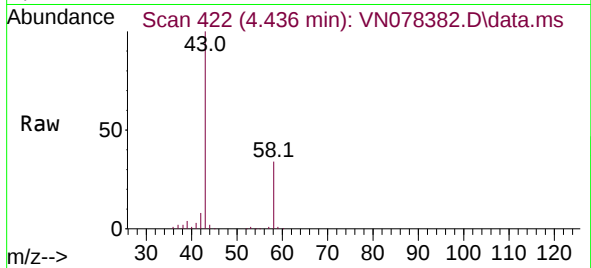




#15  
Acetone  
Concen: 866.037 ug/l  
RT: 4.436 min Scan# 415  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

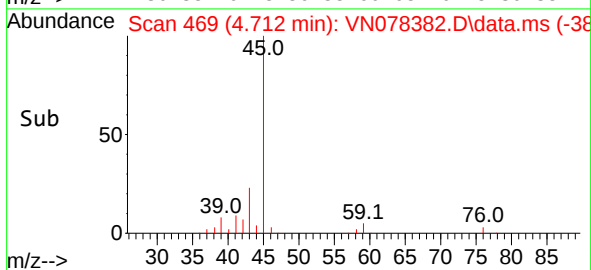
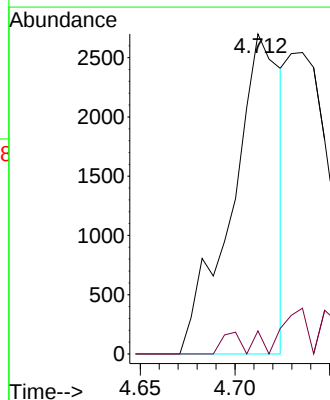
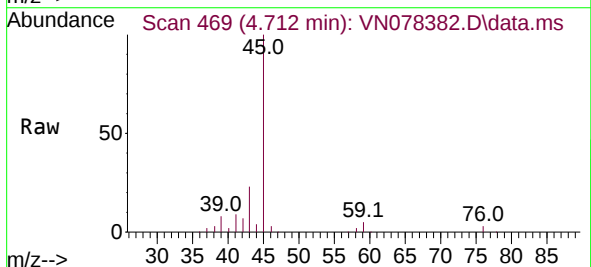
Instrument :  
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002-35TH-AVE(JUNE)

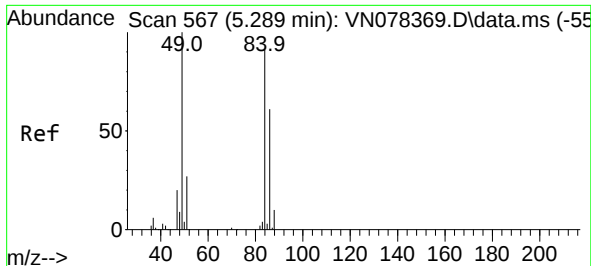
Tgt Ion: 58 Resp: 435280  
Ion Ratio Lower Upper  
58 100  
43 297.4 227.5 341.3



#16  
Carbon Disulfide  
Concen: 0.422 ug/l  
RT: 4.712 min Scan# 469  
Delta R.T. -0.012 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

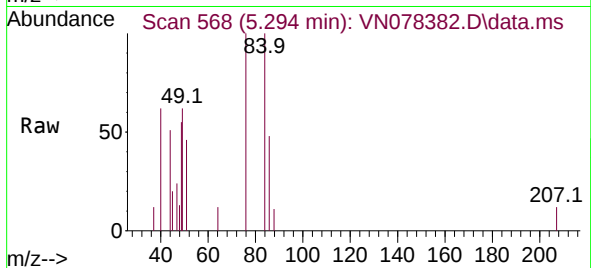
Tgt Ion: 76 Resp: 4838  
Ion Ratio Lower Upper  
76 100  
78 7.2 7.7 11.5#



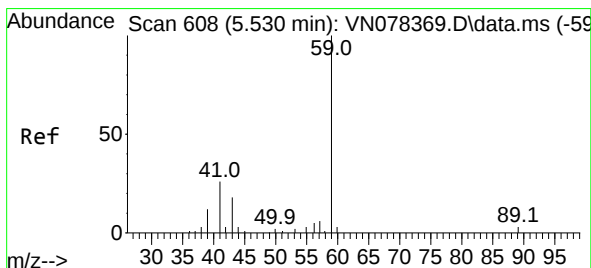
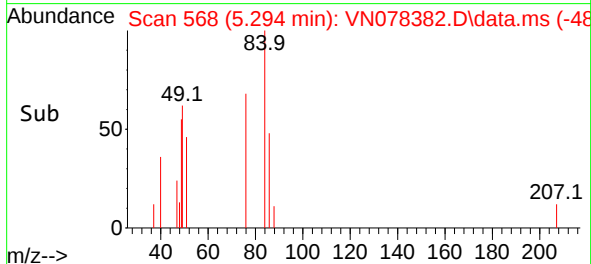
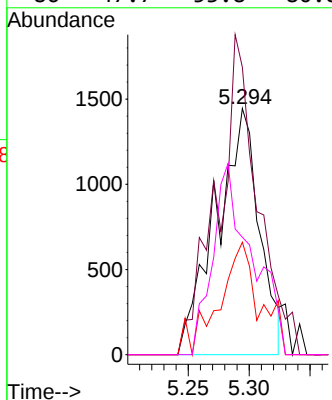


#18  
Methylene Chloride  
Concen: 0.720 ug/l  
RT: 5.294 min Scan# 509  
Delta R.T. 0.006 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

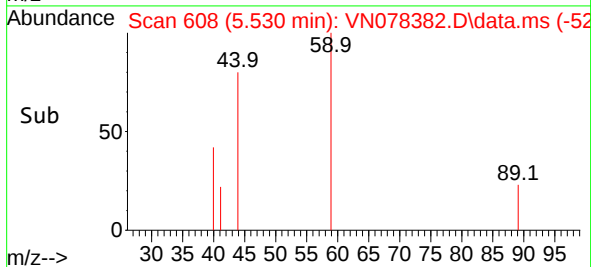
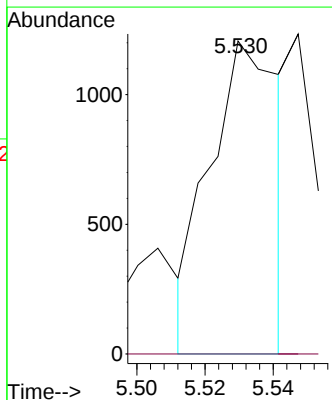
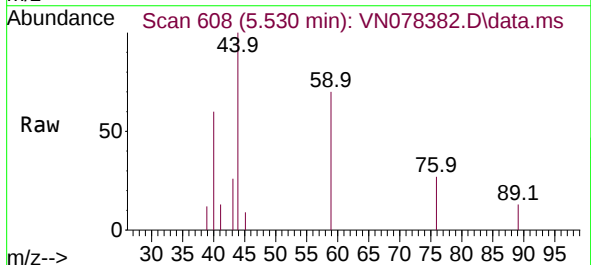


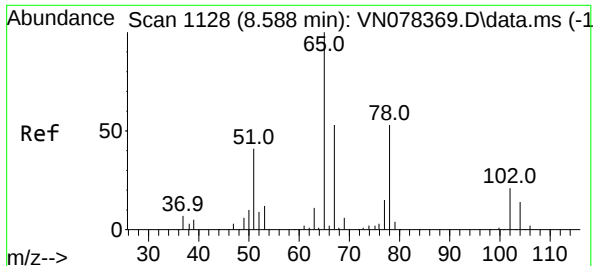
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3578  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 116.7 | 88.1  | 132.1 |
| 51       | 45.7  | 24.0  | 36.0# |
| 86       | 47.7  | 53.8  | 80.8# |



#23  
tert-Butyl Alcohol  
Concen: 2.574 ug/l  
RT: 5.530 min Scan# 608  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 1695  |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 52       | 0.0   | 0.1   | 0.1#  |





#27

1,2-Dichloroethane-d4

Concen: 30.167 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN078382.D

Acq: 23 Jun 2023 16:51

Instrument :

MSVOA\_N

ClientSampleId :

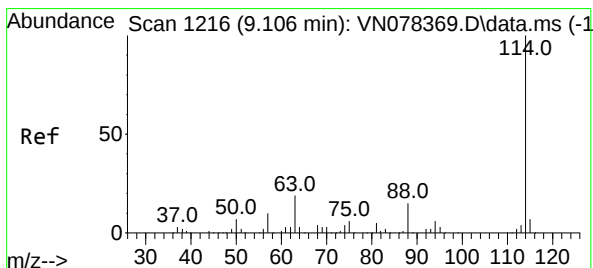
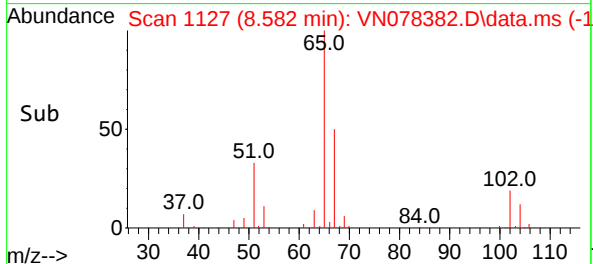
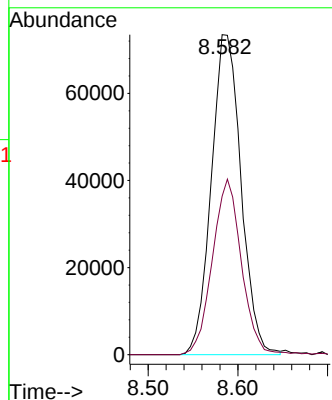
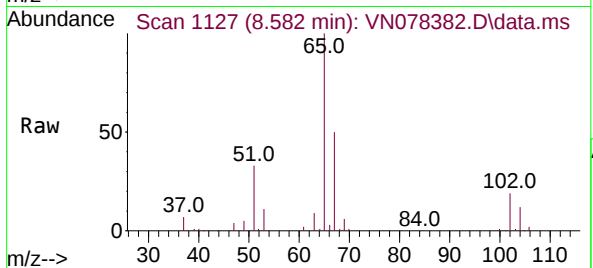
002-35TH-AVE(JUNE)

Tgt Ion: 65 Resp: 169035

Ion Ratio Lower Upper

65 100

67 53.7 42.9 64.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078382.D

Acq: 23 Jun 2023 16:51

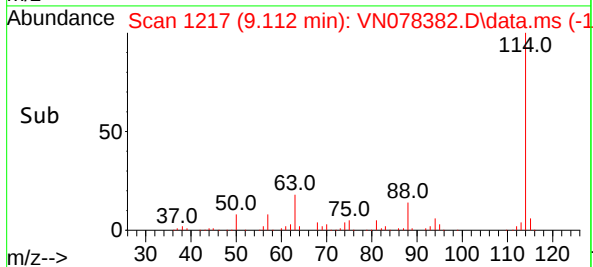
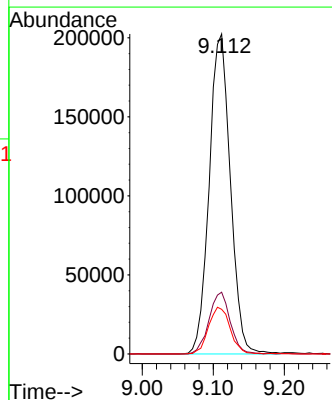
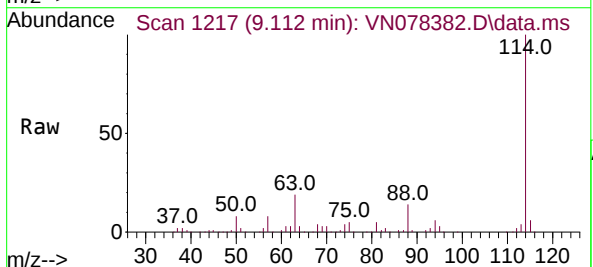
Tgt Ion: 114 Resp: 418905

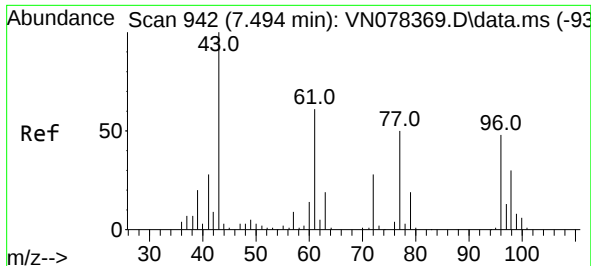
Ion Ratio Lower Upper

114 100

63 19.3 15.2 22.8

88 14.9 12.5 18.7

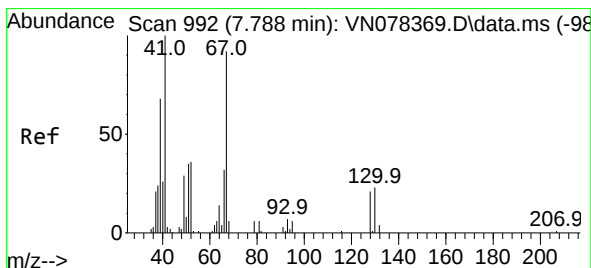
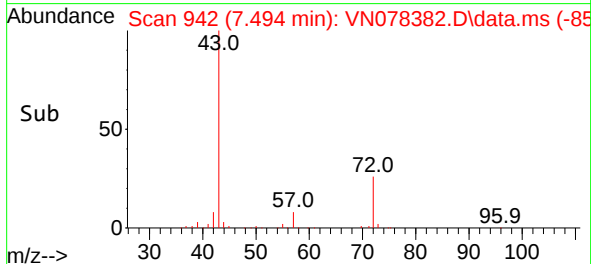
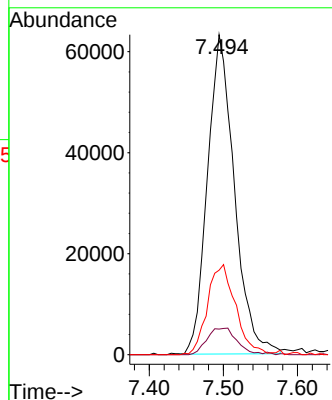
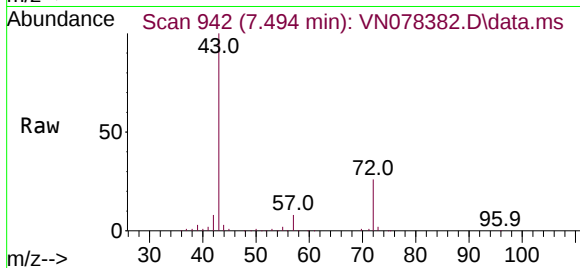




#30  
2-Butanone  
Concen: 70.078 ug/l  
RT: 7.494 min Scan# 942  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

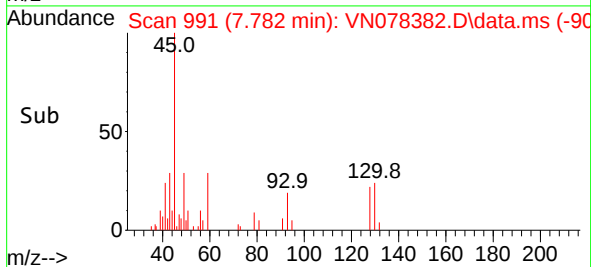
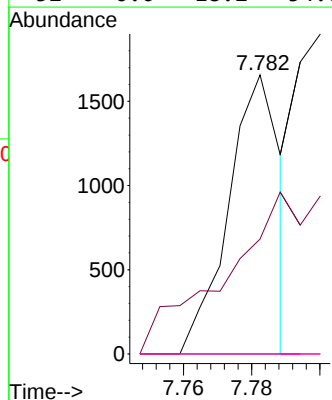
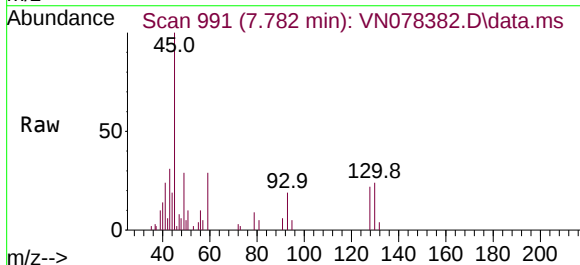
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

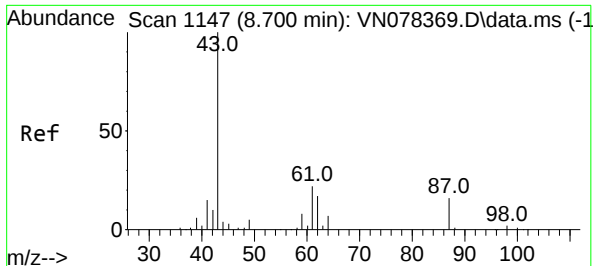
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Ion Ratio Lower Upper  
43 100  
57 4.4 6.8 10.2#  
72 29.3 23.8 35.6



#35  
Methacrylonitrile  
Concen: 0.676 ug/l  
RT: 7.782 min Scan# 991  
Delta R.T. -0.006 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion: 41 Resp: 1763  
Ion Ratio Lower Upper  
41 100  
39 23.8 33.9 101.6#  
67 0.0 45.9 137.6#  
52 0.0 18.2 54.6#

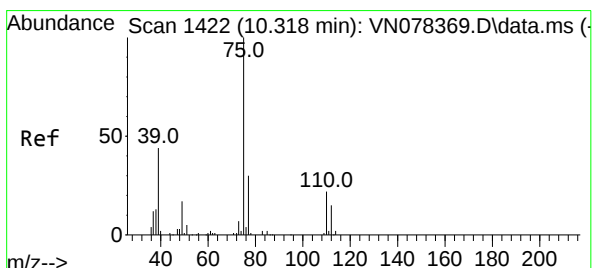
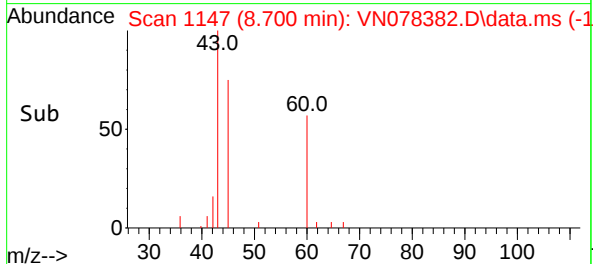
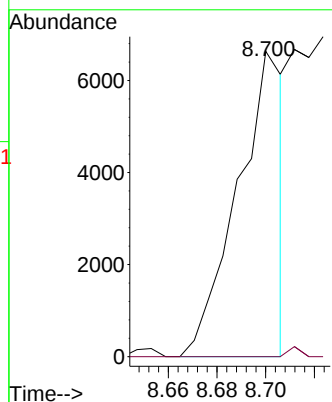
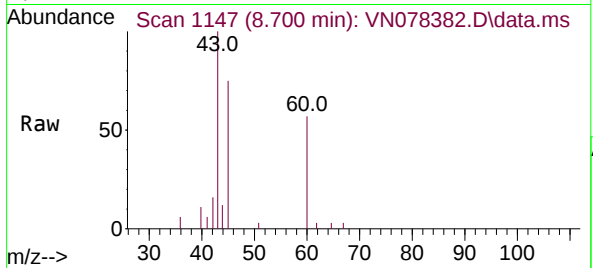




#44  
Isopropyl Acetate  
Concen: 1.008 ug/l  
RT: 8.700 min Scan# 1147  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

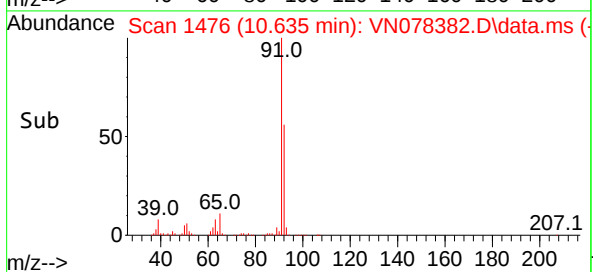
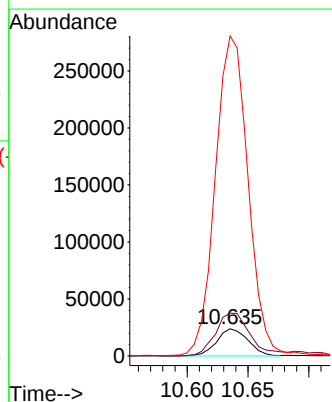
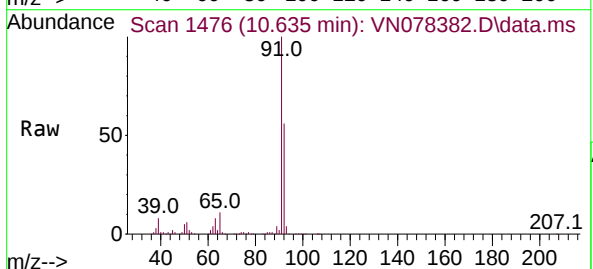
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

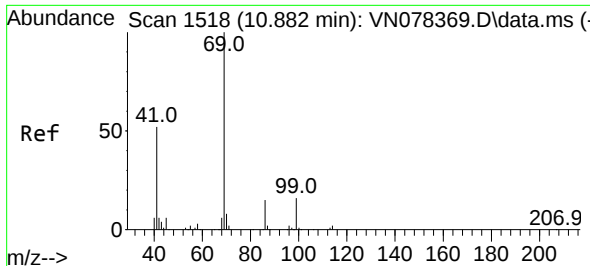
Tgt Ion: 43 Resp: 8723  
Ion Ratio Lower Upper  
43 100  
61 2.0 23.0 34.6#



#49  
cis-1,3-Dichloropropene  
Concen: 5.568 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. 0.318 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion: 75 Resp: 42841  
Ion Ratio Lower Upper  
75 100  
77 157.0 24.0 36.0#  
39 1172.9 35.1 52.7#

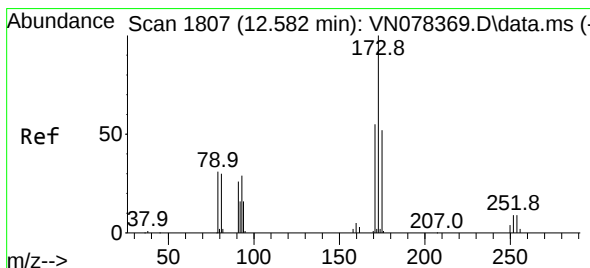
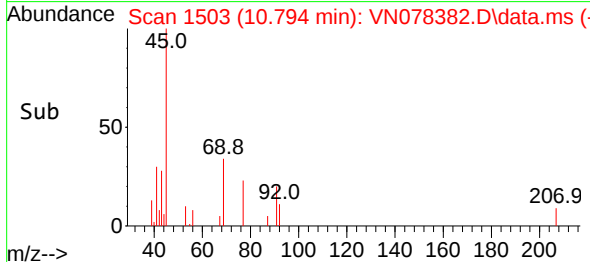
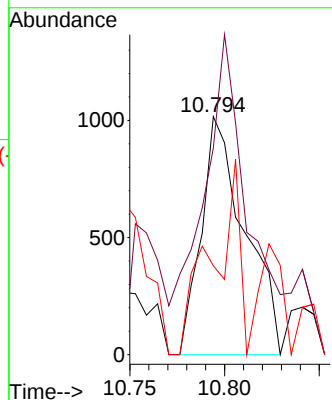
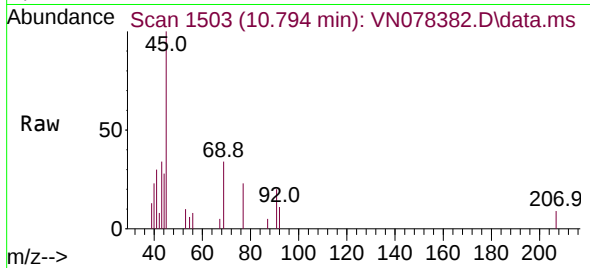




#51  
Ethyl methacrylate  
Concen: 0.254 ug/l  
RT: 10.794 min Scan# 11  
Delta R.T. -0.088 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

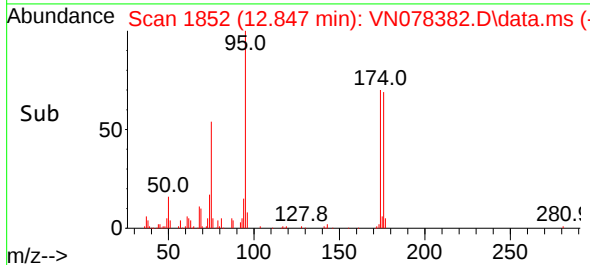
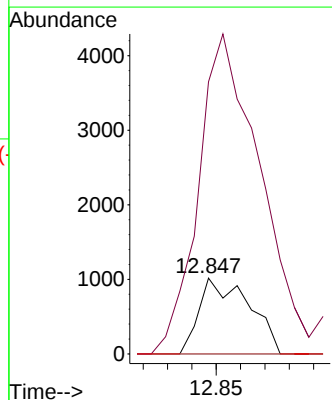
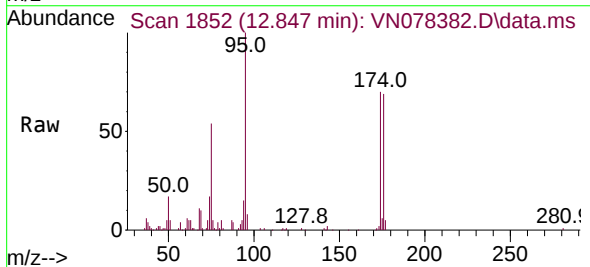
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

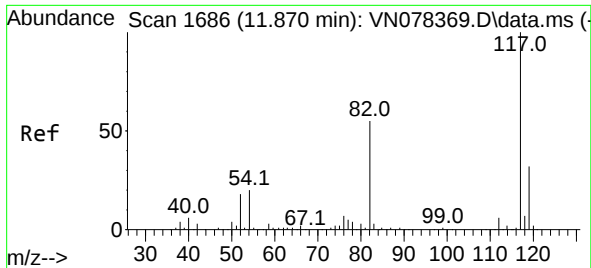
Tgt Ion: 69 Resp: 1630  
Ion Ratio Lower Upper  
69 100  
41 61.5 26.0 78.0  
39 37.4 16.3 48.9



#56  
Bromoform  
Concen: 0.478 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion:173 Resp: 1456  
Ion Ratio Lower Upper  
173 100  
175 517.7 40.7 61.1#  
254 0.0 6.5 9.7#

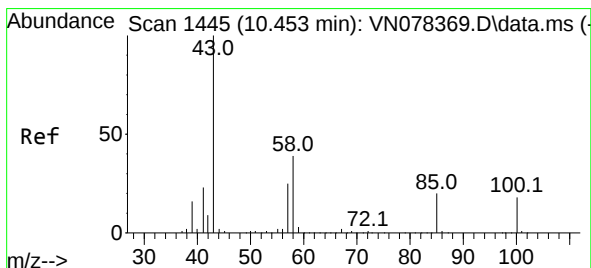
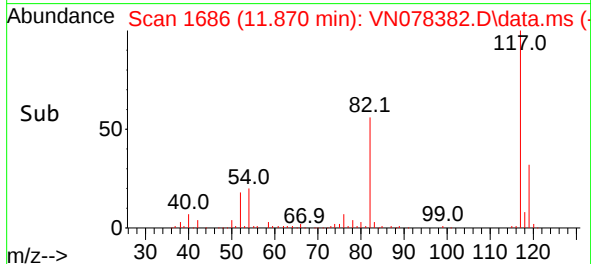
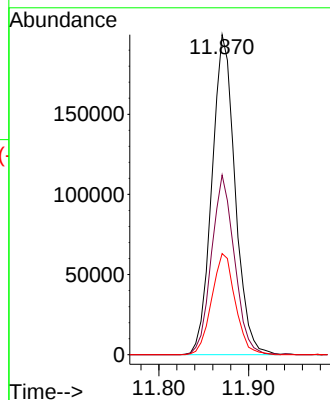
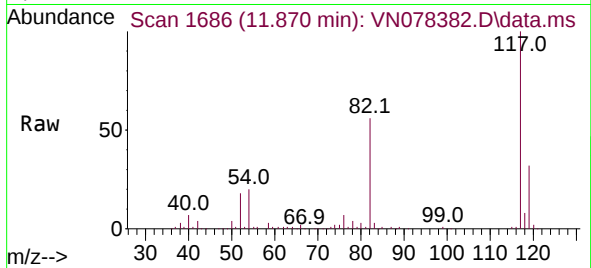




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.870 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

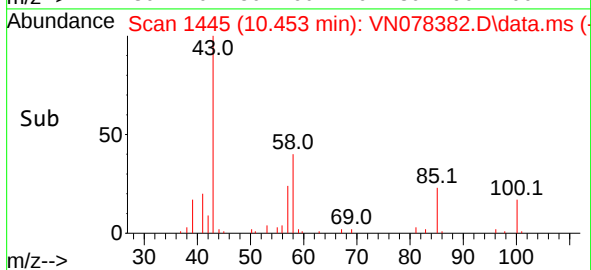
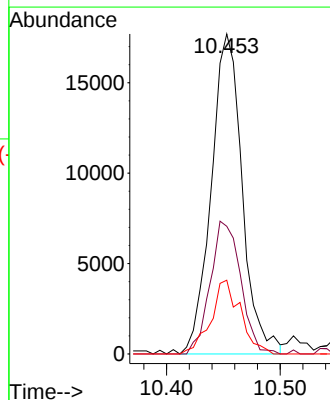
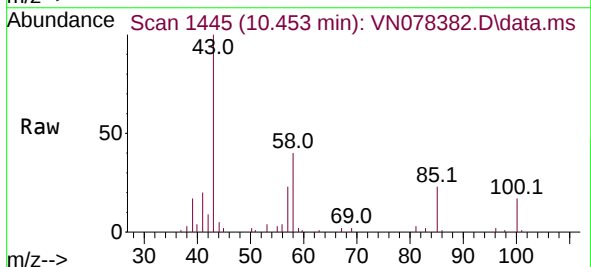
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

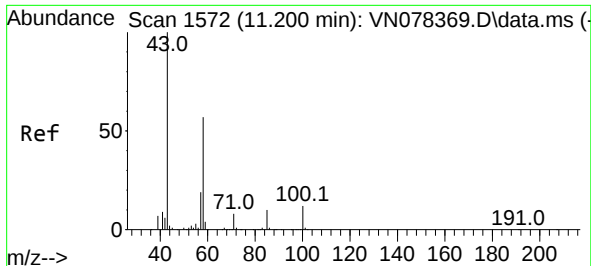
Tgt Ion:117 Resp: 358185  
Ion Ratio Lower Upper  
117 100  
82 55.7 43.9 65.9  
119 32.1 26.2 39.4



#58  
4-Methyl-2-Pentanone  
Concen: 7.009 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion: 43 Resp: 33525  
Ion Ratio Lower Upper  
43 100  
58 40.5 32.6 48.8  
85 22.0 16.2 24.2





#59

2-Hexanone

Concen: 0.658 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078382.D

Acq: 23 Jun 2023 16:51

Instrument :

MSVOA\_N

ClientSampleId :

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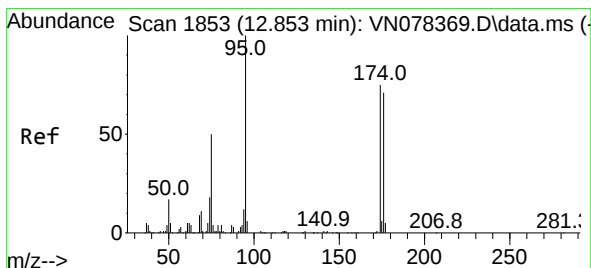
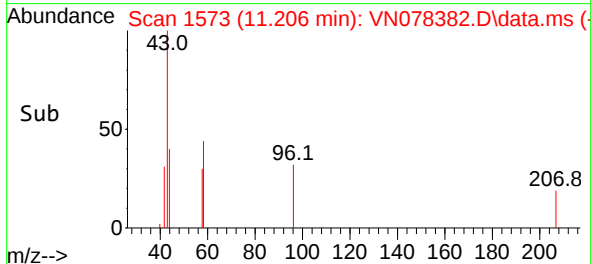
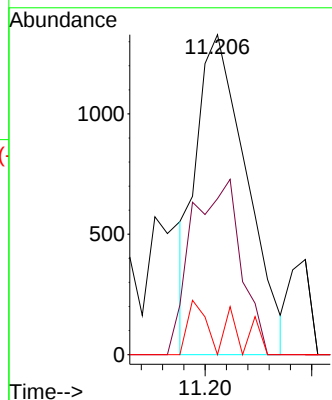
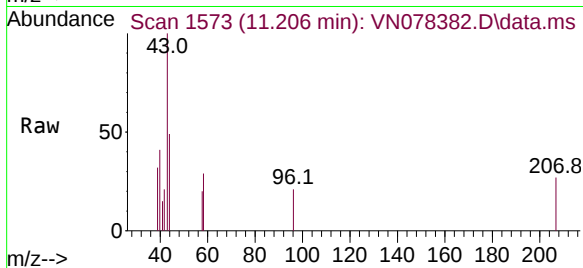
Tgt Ion: 43 Resp: 2175

Ion Ratio Lower Upper

43 100

58 30.7 45.9 68.9#

57 3.2 15.8 23.6#



#60

4-Bromofluorobenzene

Concen: 25.989 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VN078382.D

Acq: 23 Jun 2023 16:51

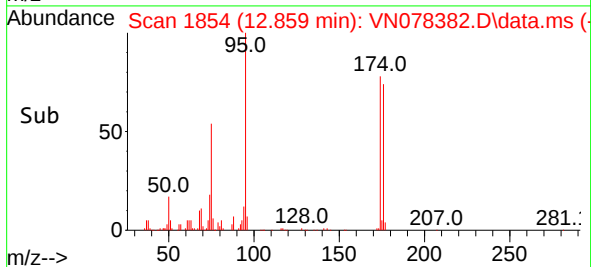
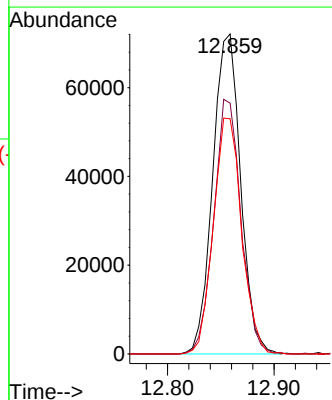
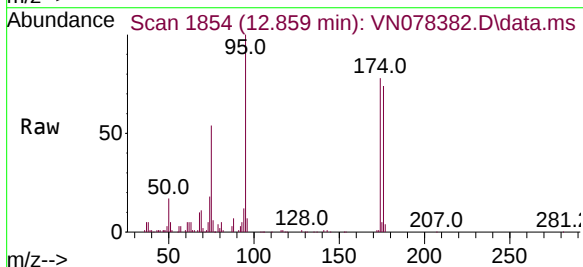
Tgt Ion: 95 Resp: 131150

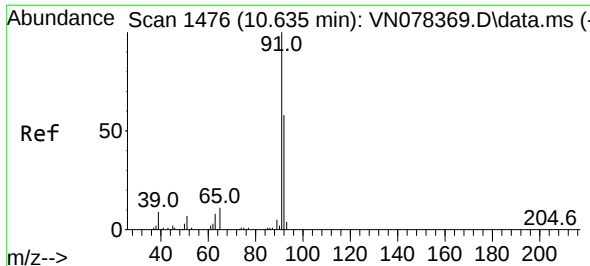
Ion Ratio Lower Upper

95 100

174 77.6 61.7 92.5

176 74.5 58.1 87.1

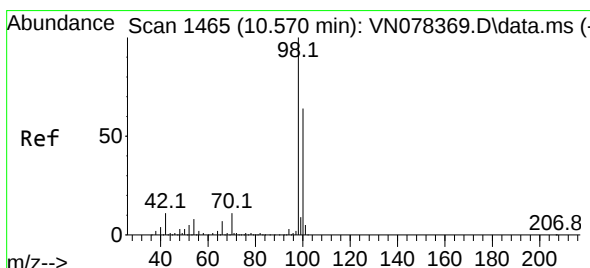
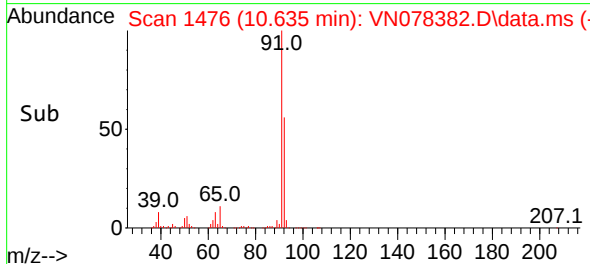
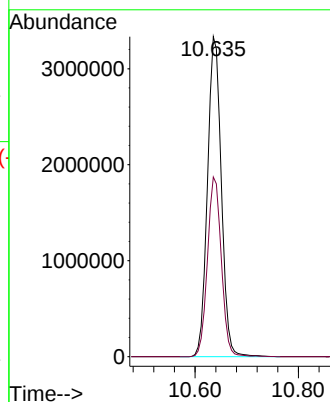
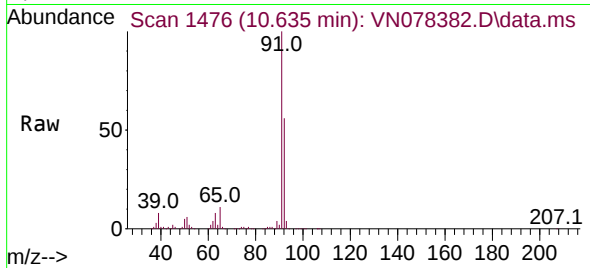




#62  
Toluene  
Concen: 297.206 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

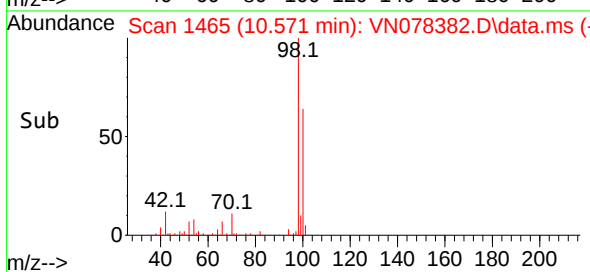
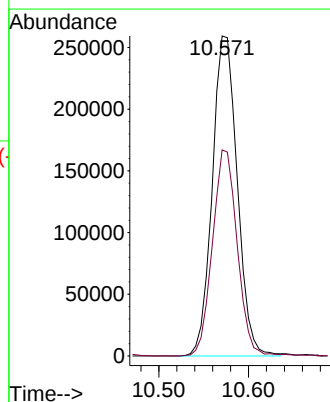
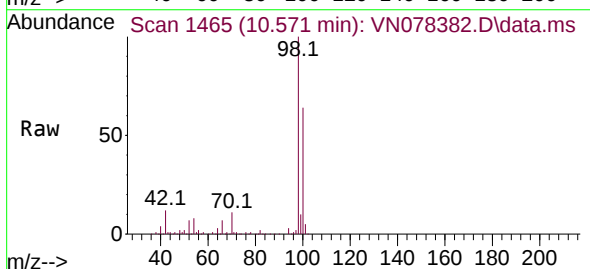
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

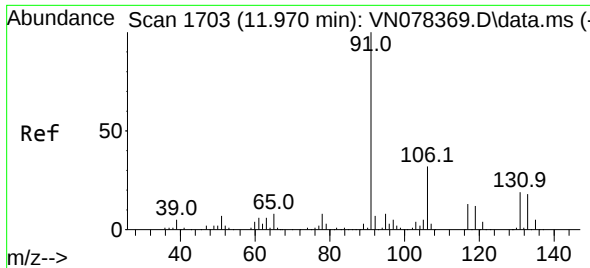
Tgt Ion: 91 Resp: 6195547  
Ion Ratio Lower Upper  
91 100  
92 56.1 45.2 67.8



#63  
Toluene-d8  
Concen: 28.922 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion: 98 Resp: 501938  
Ion Ratio Lower Upper  
98 100  
100 63.3 49.7 74.5

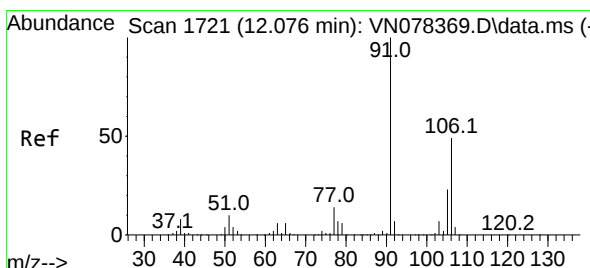
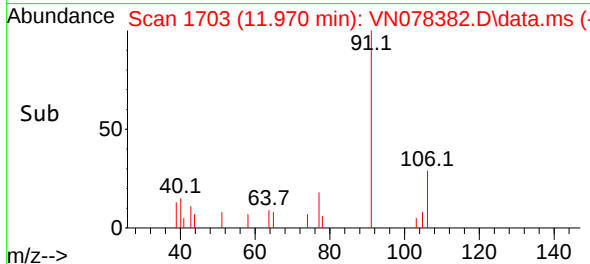
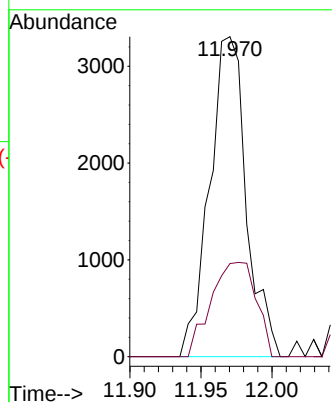
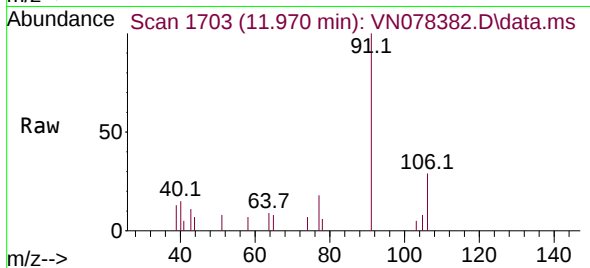




#66  
Ethyl Benzene  
Concen: 0.281 ug/l  
RT: 11.970 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

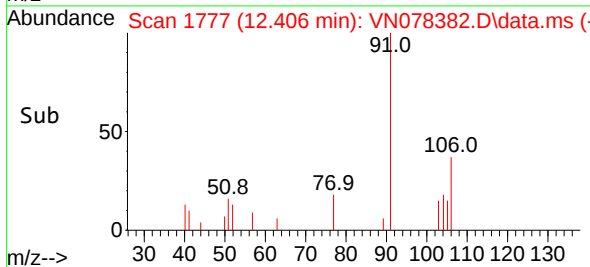
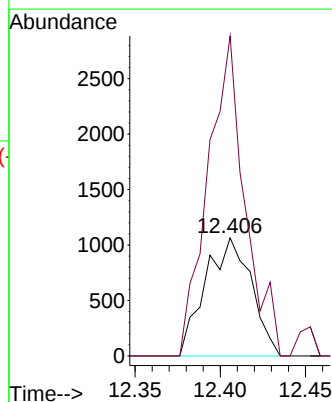
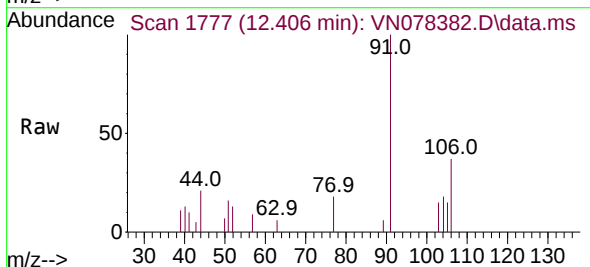
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

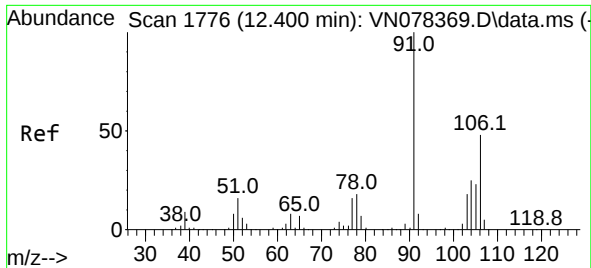
Tgt Ion: 91 Resp: 5954  
Ion Ratio Lower Upper  
91 100  
106 29.1 25.6 38.4



#67  
m/p-Xylenes  
Concen: 0.249 ug/l  
RT: 12.406 min Scan# 1777  
Delta R.T. 0.329 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion: 106 Resp: 1999  
Ion Ratio Lower Upper  
106 100  
91 218.8 162.5 243.7

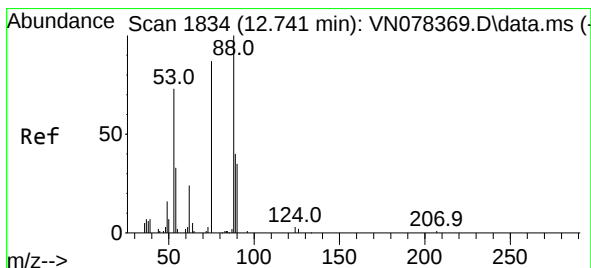
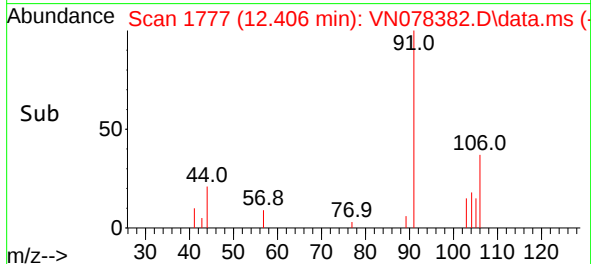
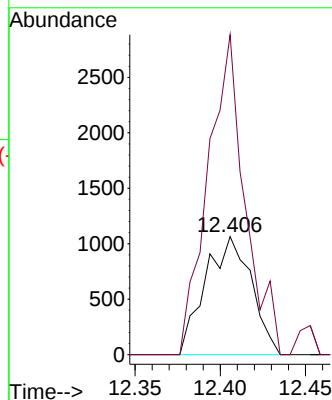
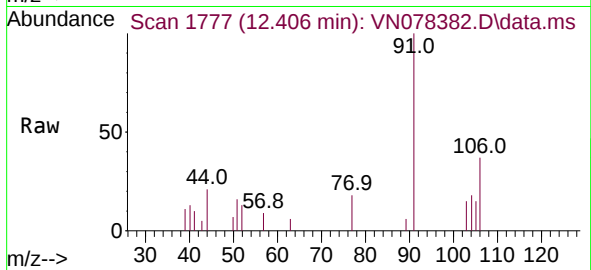




#68  
o-Xylene  
Concen: 0.257 ug/l  
RT: 12.406 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

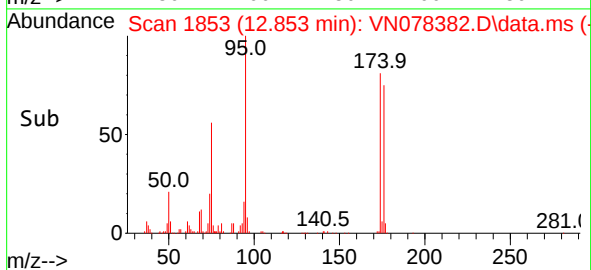
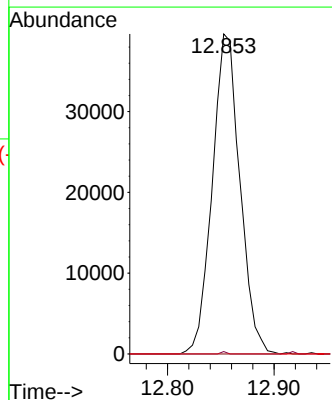
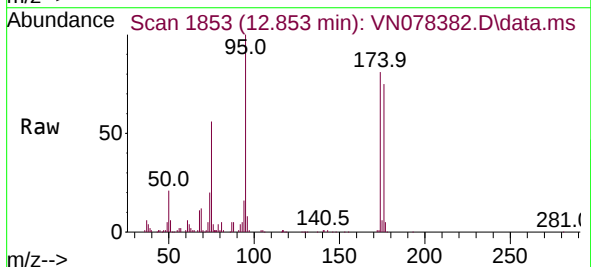
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

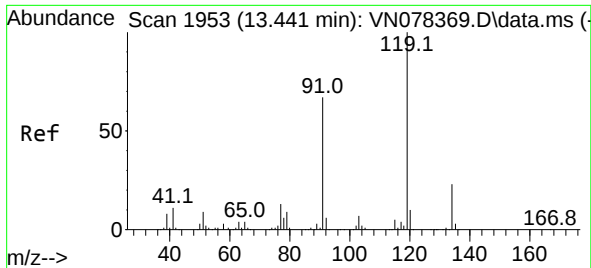
Tgt Ion:106 Resp: 1999  
Ion Ratio Lower Upper  
106 100  
91 218.8 106.1 318.3



#77  
t-1,4-Dichloro-2-butene  
Concen: 42.612 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion: 75 Resp: 71348  
Ion Ratio Lower Upper  
75 100  
53 0.8 41.6 124.9#  
89 0.0 25.1 75.4#

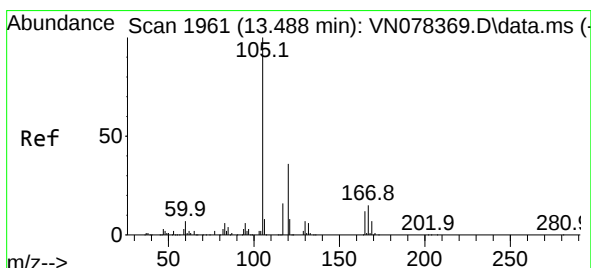
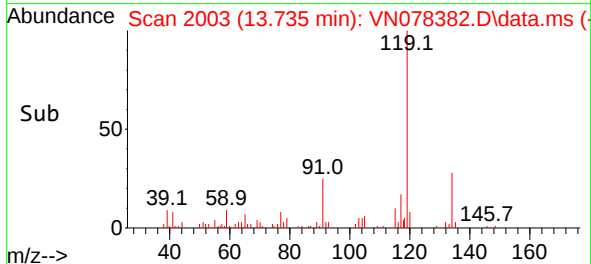
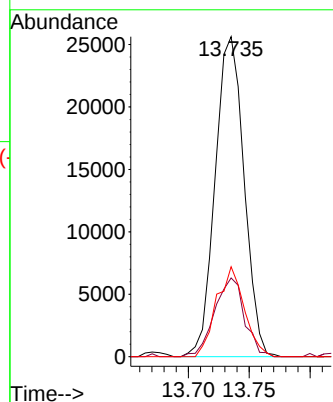
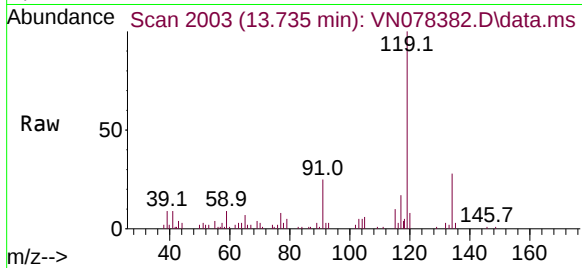




#79  
tert-butylbenzene  
Concen: 3.248 ug/l  
RT: 13.735 min Scan# 2003  
Delta R.T. 0.294 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

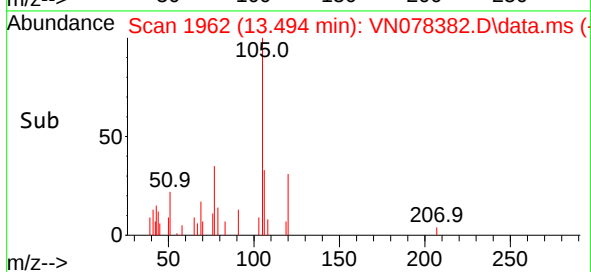
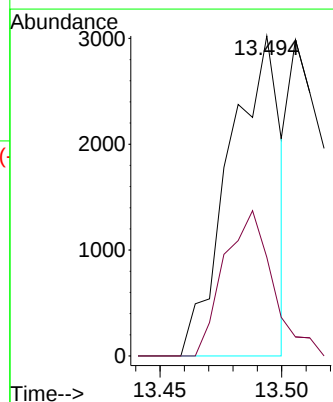
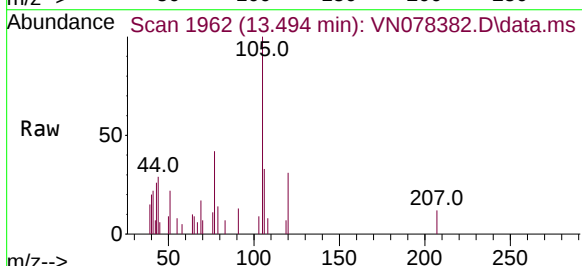
Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(JUNE)

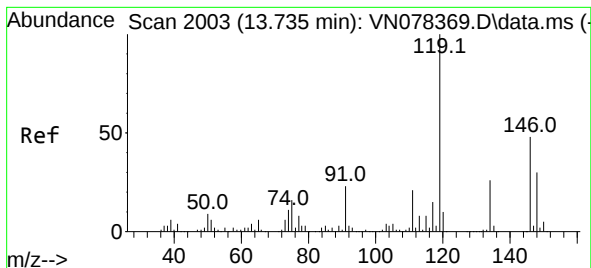
Tgt Ion:119 Resp: 42340  
Ion Ratio Lower Upper  
119 100  
91 25.5 0.0 126.6  
134 27.1 0.0 44.0



#80  
1,2,4-Trimethylbenzene  
Concen: 0.295 ug/l  
RT: 13.494 min Scan# 1962  
Delta R.T. 0.006 min  
Lab File: VN078382.D  
Acq: 23 Jun 2023 16:51

Tgt Ion:105 Resp: 4419  
Ion Ratio Lower Upper  
105 100  
120 43.0 0.0 88.2





#82

p-Isopropyltoluene

Concen: 3.237 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN078382.D

Acq: 23 Jun 2023 16:51

Instrument :

MSVOA\_N

ClientSampleId :

002-35TH-AVE(JUNE)

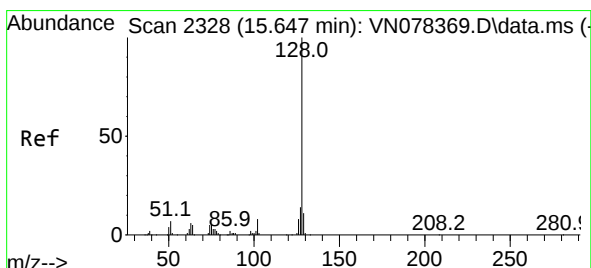
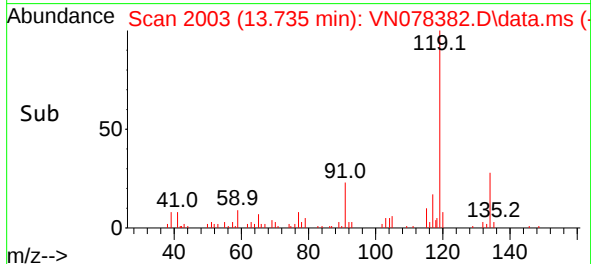
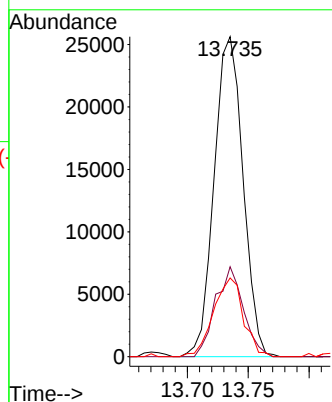
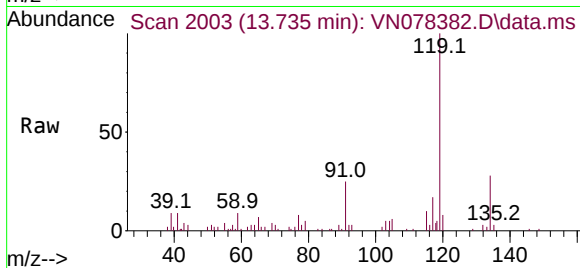
Tgt Ion:119 Resp: 42340

Ion Ratio Lower Upper

119 100

134 27.1 0.0 52.4

91 25.5 0.0 48.2



#91

Naphthalene

Concen: 0.278 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.000 min

Lab File: VN078382.D

Acq: 23 Jun 2023 16:51

Tgt Ion:128 Resp: 1995

Ion Ratio Lower Upper

128 100

127 10.1 10.2 15.2#

129 7.2 9.0 13.4#

