

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120821\  
 Data File : VN069862.D  
 Acq On : 8 Dec 2021 15:38  
 Operator : JC/MD  
 Sample : M4956-04  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EB01-20211203

Quant Time: Dec 09 11:40:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

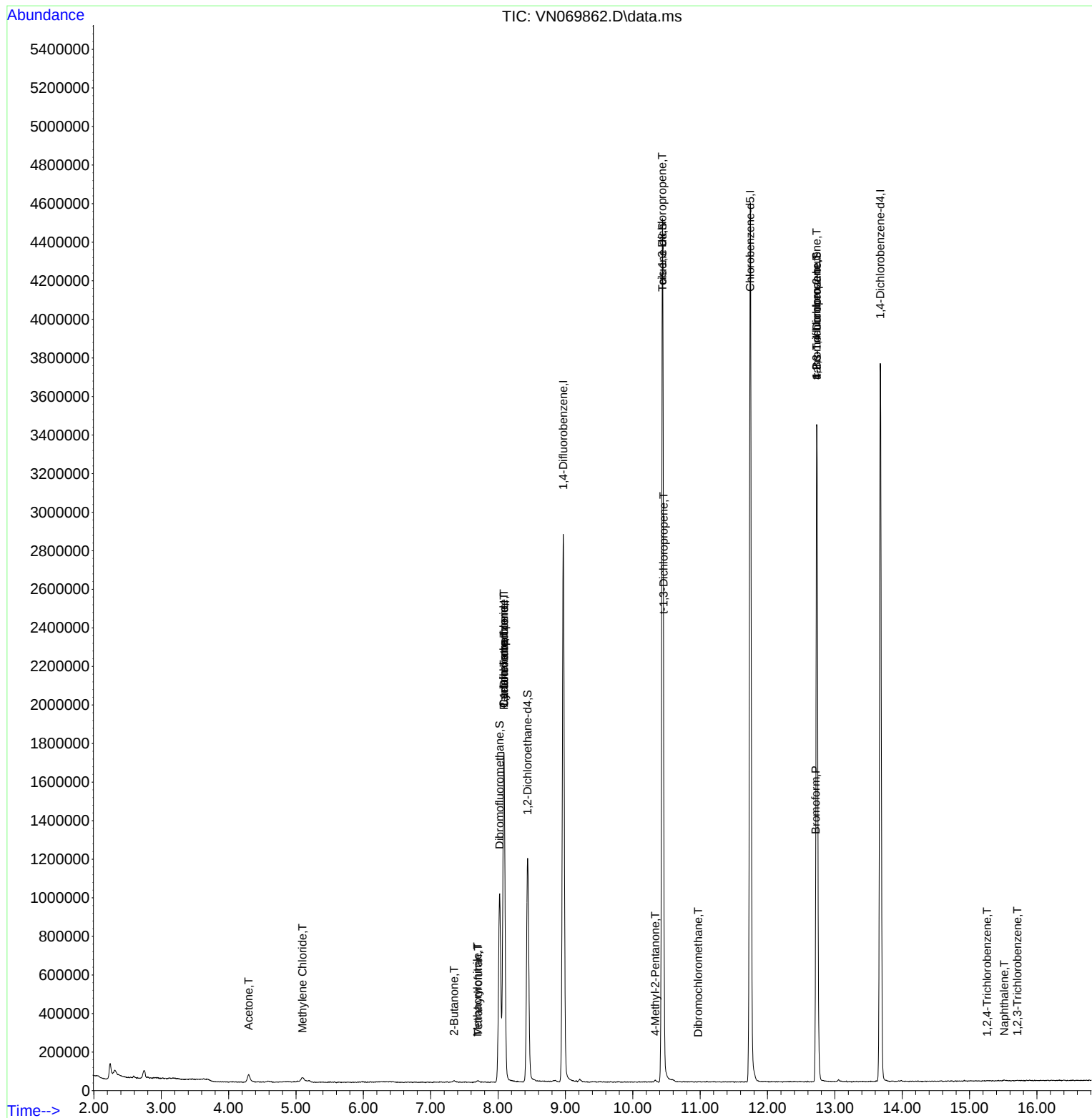
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.088  | 168   | 1292656  | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114   | 2349672  | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.744 | 117   | 2559861  | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675 | 152   | 992683   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.437  | 65    | 1023610  | 51.287   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | = 102.580% |          |
| 35) Dibromofluoromethane      | 8.024  | 113   | 709269   | 48.191   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | = 96.380%  |          |
| 50) Toluene-d8                | 10.440 | 98    | 3067123  | 51.900   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | = 103.800% |          |
| 62) 4-Bromofluorobenzene      | 12.731 | 95    | 1204963  | 56.282   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | = 112.560% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 16) Acetone                   | 4.296  | 43    | 70094    | 5.838    | ug/l       | 96       |
| 20) Methylene Chloride        | 5.095  | 84    | 13671    | 0.857    | ug/l       | 87       |
| 25) 2-Butanone                | 7.348  | 43    | 14569    | 0.893    | ug/l       | 95       |
| 29) Tetrahydrofuran           | 7.705  | 42    | 6131     | 0.619    | ug/l #     | 67       |
| 31) Cyclohexane               | 8.086  | 56    | 32373    | 1.166    | ug/l #     | 22       |
| 36) 1,1-Dichloropropene       | 8.086  | 75    | 110854   | 4.956    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 8.086  | 117   | 135354   | 6.171    | ug/l #     | 16       |
| 41) Methacrylonitrile         | 7.694  | 41    | 4193     | 0.268    | ug/l #     | 30       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43    | 8145     | 0.255    | ug/l #     | 84       |
| 53) t-1,3-Dichloropropene     | 10.456 | 75    | 107      | 2.798    | ug/l #     | 1        |
| 54) cis-1,3-Dichloropropene   | 10.435 | 75    | 462      | 2.014    | ug/l #     | 1        |
| 60) Dibromochloromethane      | 10.971 | 129   | 526      | 2.404    | ug/l #     | 11       |
| 71) Bromoform                 | 12.715 | 173   | 972      | 2.790    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.731 | 75    | 683921   | 24.024   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.731 | 75    | 683921   | 76.303   | ug/l #     | 5        |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180   | 570      | 2.911    | ug/l #     | 87       |
| 95) Naphthalene               | 15.515 | 128   | 3181     | 4.045    | ug/l #     | 88       |
| 96) 1,2,3-Trichlorobenzene    | 15.708 | 180   | 716      | 2.478    | ug/l       | 73       |
| -----                         |        |       |          |          |            |          |

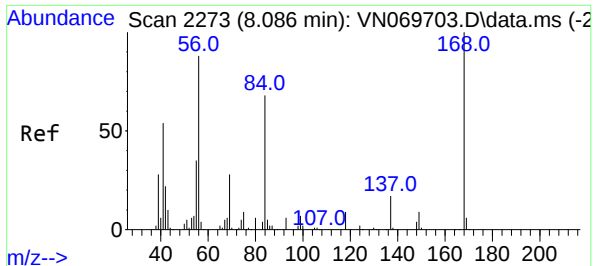
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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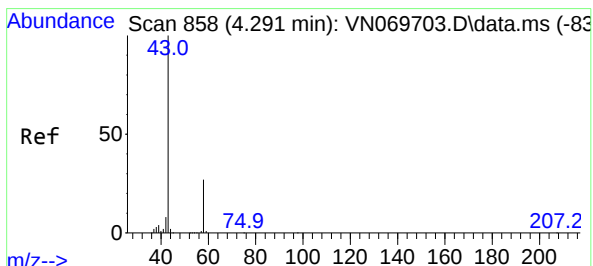
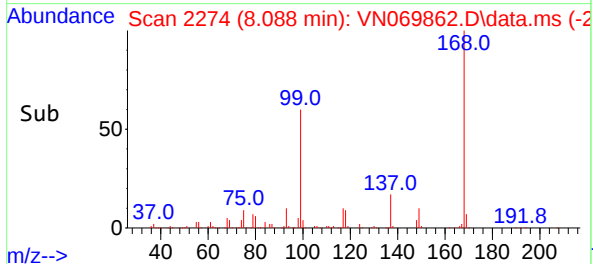
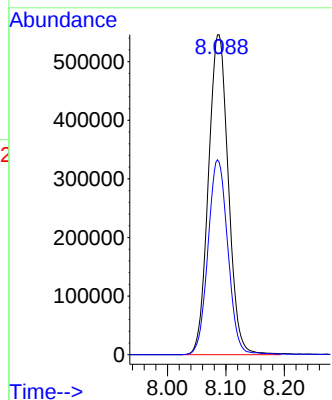
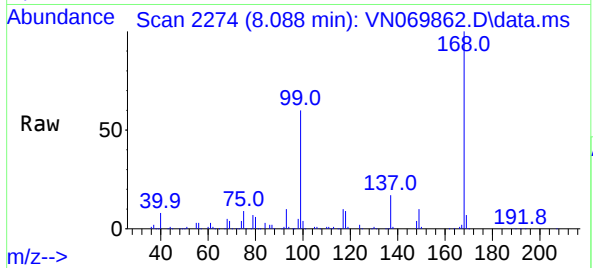




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

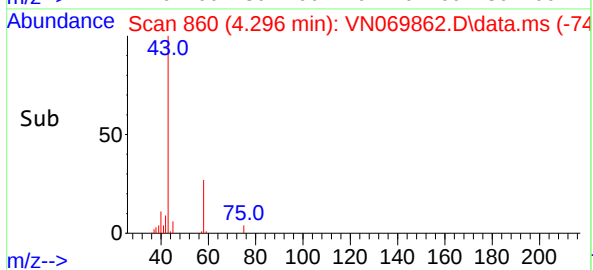
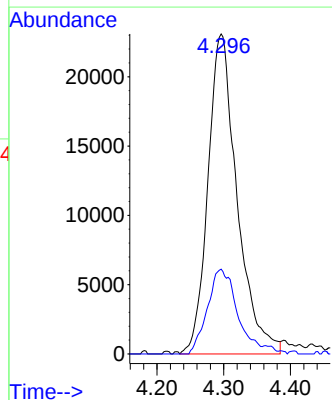
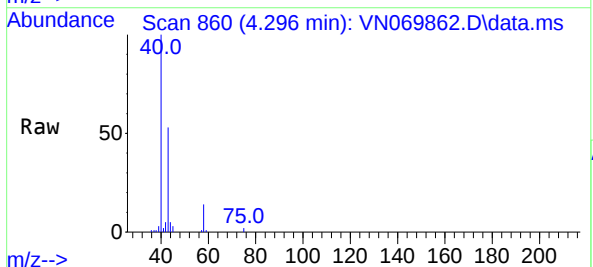
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203

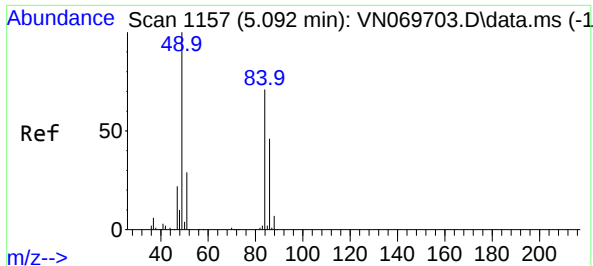
Tgt Ion:168 Resp: 1292656  
Ion Ratio Lower Upper  
168 100  
99 60.2 41.3 61.9



#16  
Acetone  
Concen: 5.838 ug/l  
RT: 4.296 min Scan# 860  
Delta R.T. 0.005 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion: 43 Resp: 70094  
Ion Ratio Lower Upper  
43 100  
58 26.5 23.1 34.7



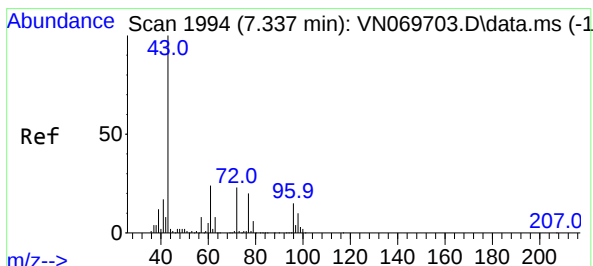
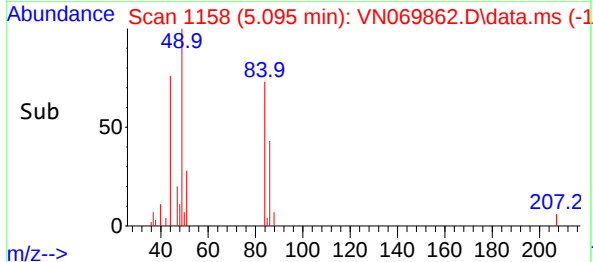
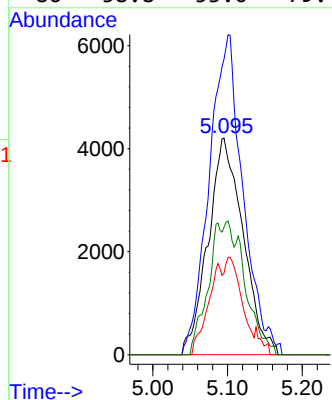
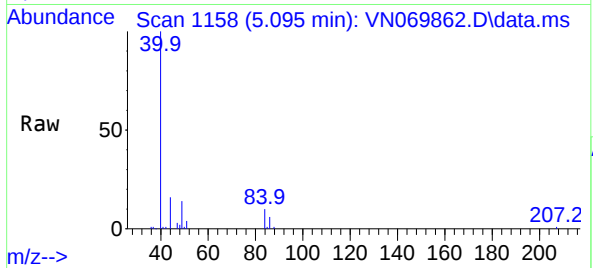


#20  
Methylene Chloride  
Concen: 0.857 ug/l  
RT: 5.095 min Scan# 1157  
Delta R.T. 0.003 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203

Tgt Ion: 84 Resp: 13671

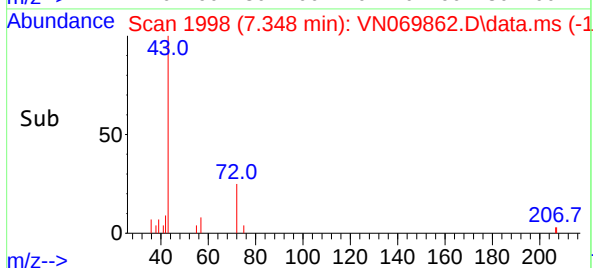
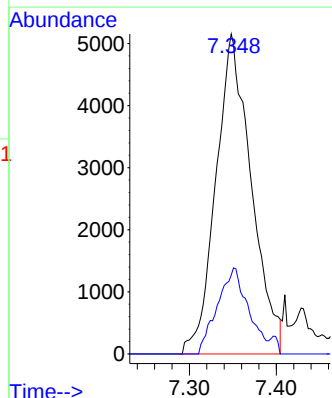
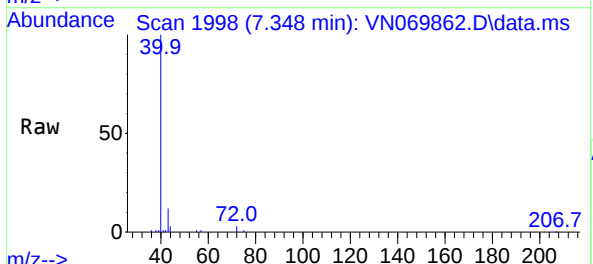
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 136.6 | 93.5  | 140.3 |
| 51  | 37.7  | 29.4  | 44.2  |
| 86  | 58.8  | 53.0  | 79.4  |

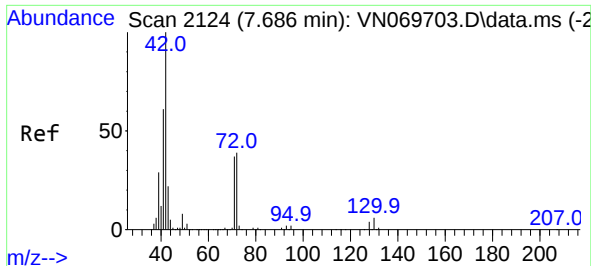


#25  
2-Butanone  
Concen: 0.893 ug/l  
RT: 7.348 min Scan# 1998  
Delta R.T. 0.011 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion: 43 Resp: 14569

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 24.6  | 21.7  | 32.5  |





#29

Tetrahydrofuran

Concen: 0.619 ug/l

RT: 7.705 min Scan# 21

Delta R.T. 0.019 min

Lab File: VN069862.D

Acq: 8 Dec 2021 15:38

Instrument :

MSVOA\_N

ClientSampleId :

EB01-20211203

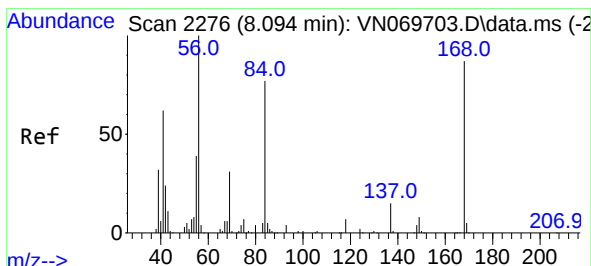
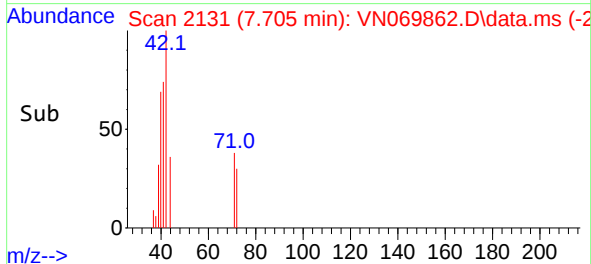
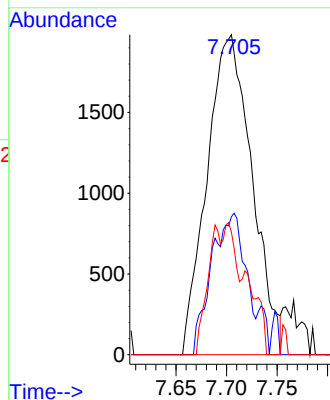
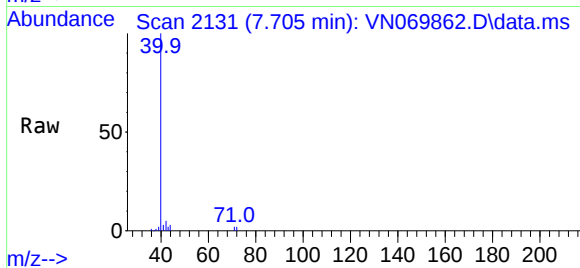
Tgt Ion: 42 Resp: 6131

Ion Ratio Lower Upper

42 100

72 33.5 36.3 54.5#

71 12.2 34.7 52.1#



#31

Cyclohexane

Concen: 1.166 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN069862.D

Acq: 8 Dec 2021 15:38

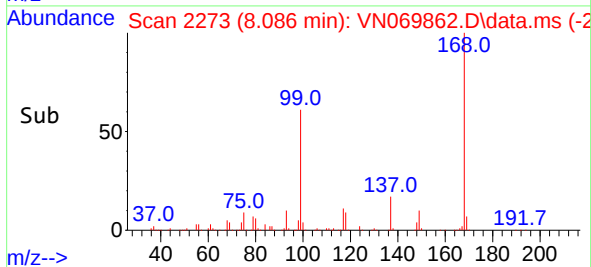
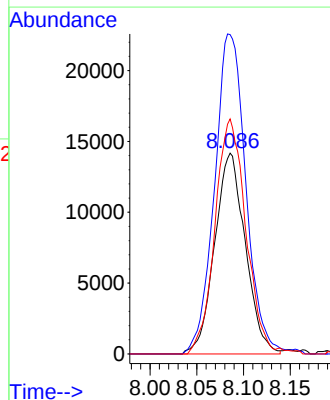
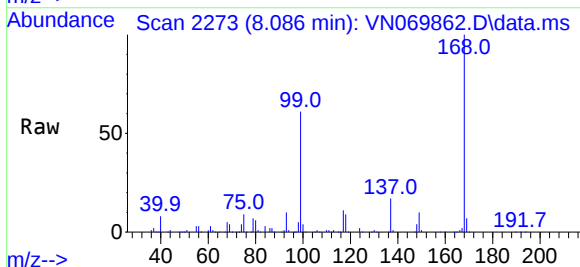
Tgt Ion: 56 Resp: 32373

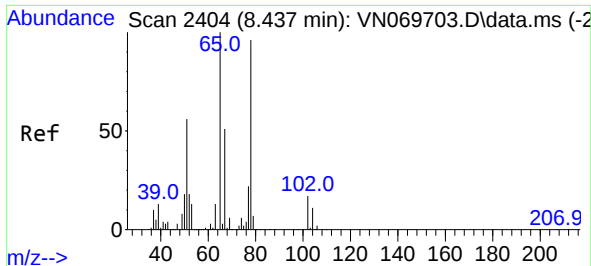
Ion Ratio Lower Upper

56 100

69 159.0 27.1 40.7#

84 117.0 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 51.287 ug/l

RT: 8.437 min Scan# 24

Delta R.T. 0.000 min

Lab File: VN069862.D

Acq: 8 Dec 2021 15:38

Instrument :

MSVOA\_N

ClientSampleId :

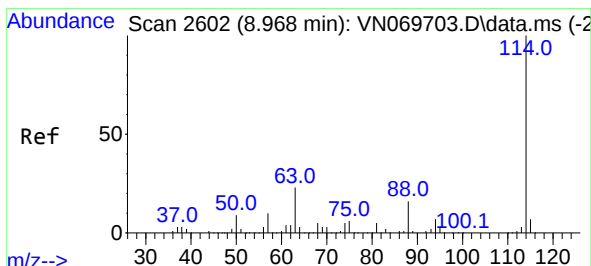
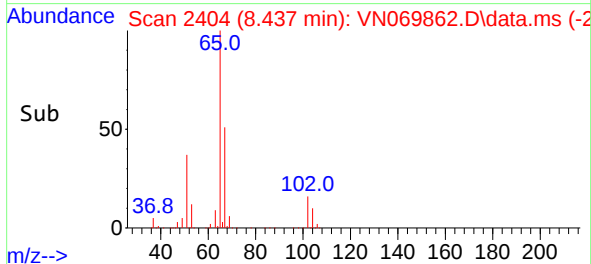
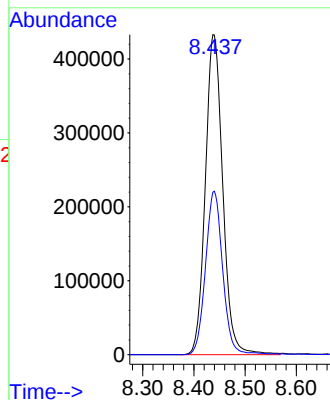
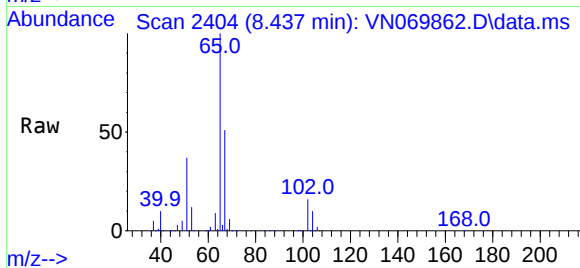
EB01-20211203

Tgt Ion: 65 Resp: 1023610

Ion Ratio Lower Upper

65 100

67 49.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN069862.D

Acq: 8 Dec 2021 15:38

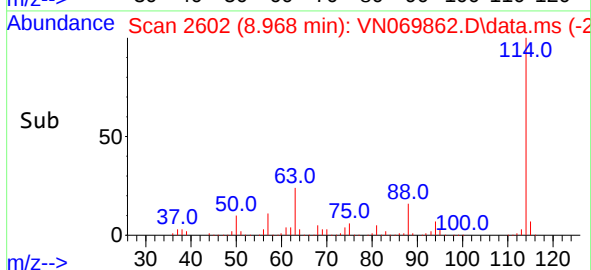
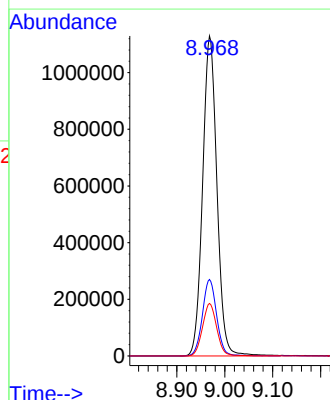
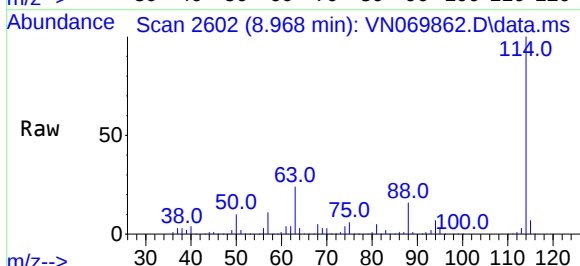
Tgt Ion: 114 Resp: 2349672

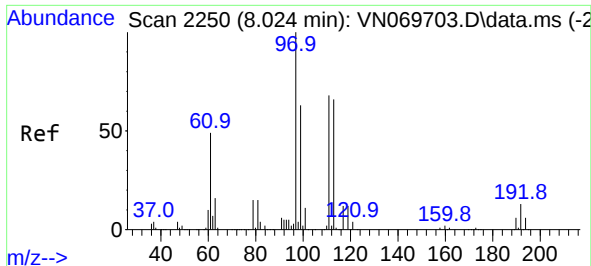
Ion Ratio Lower Upper

114 100

63 23.9 0.0 37.8

88 16.4 0.0 27.4

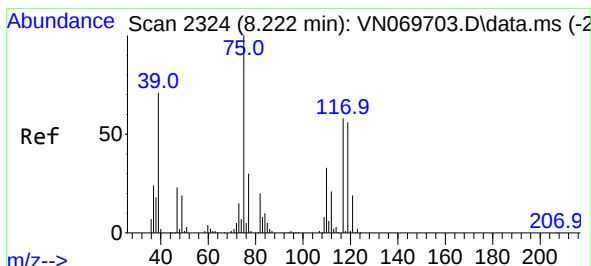
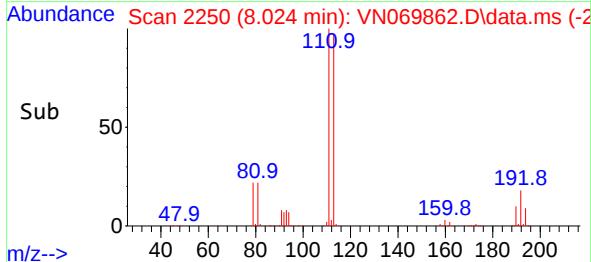
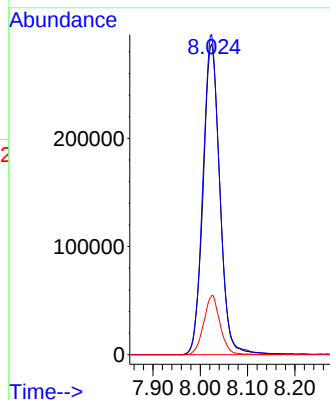
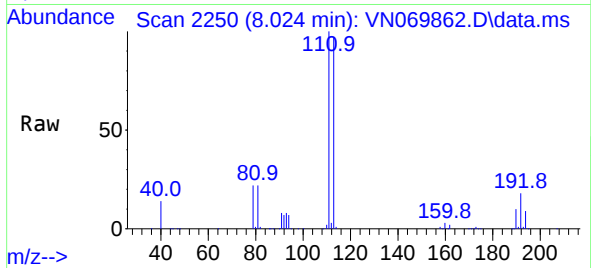




#35  
Dibromofluoromethane  
Concen: 48.191 ug/l  
RT: 8.024 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

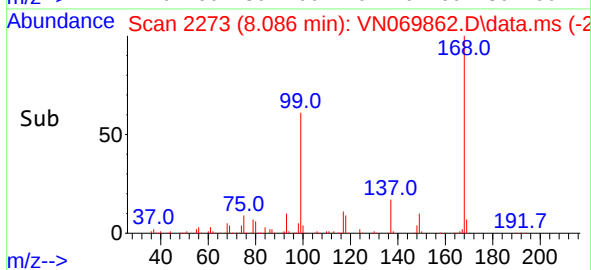
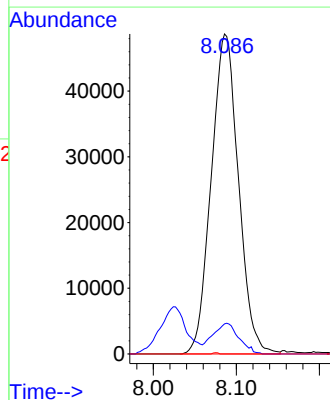
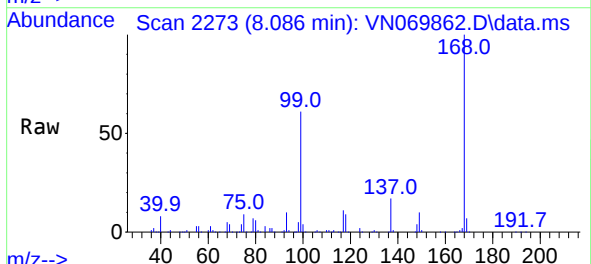
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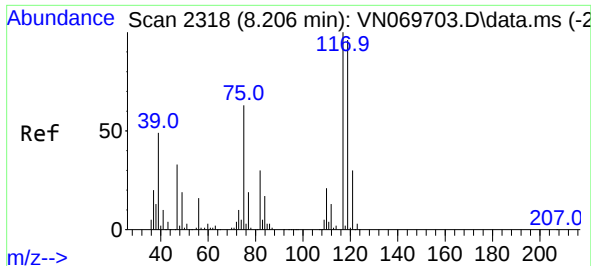
Tgt Ion:113 Resp: 709269  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.2 123.2  
192 18.5 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.956 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.137 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion: 75 Resp: 110854  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.4 55.2#  
77 0.1 24.4 36.6#

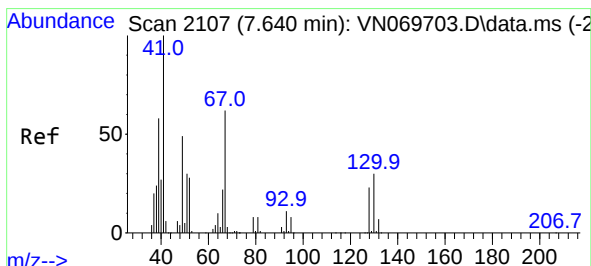
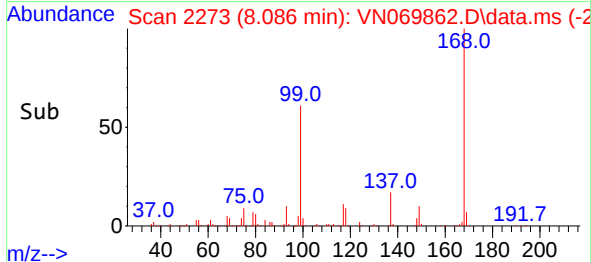
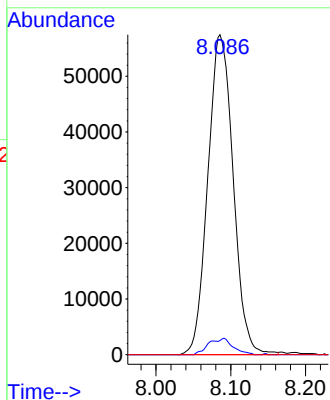
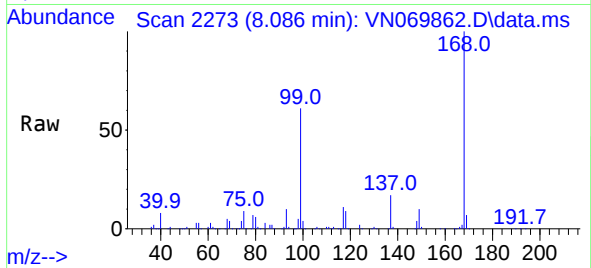




#38  
Carbon Tetrachloride  
Concen: 6.171 ug/l  
RT: 8.086 min Scan# 2117  
Delta R.T. -0.121 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

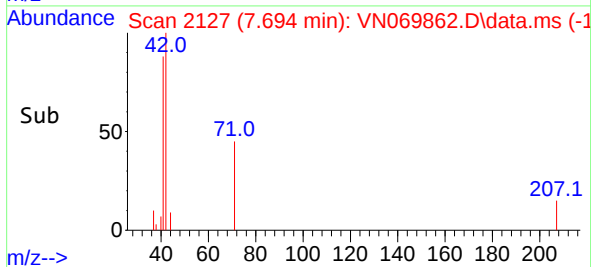
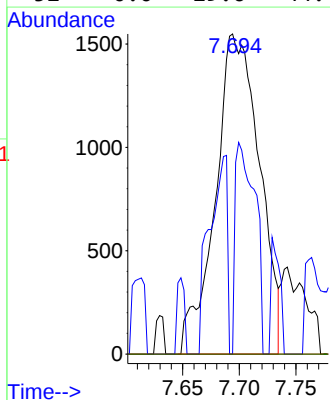
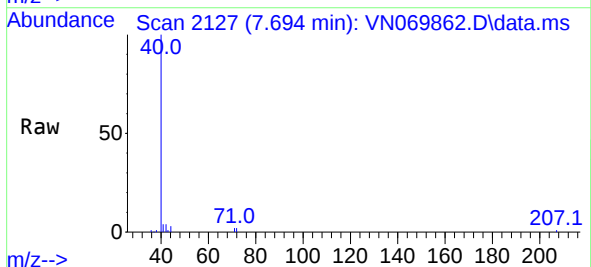
Instrument :  
MSVOA\_N  
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EB01-20211203

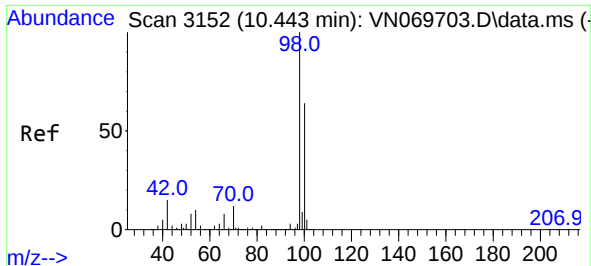
Tgt Ion:117 Resp: 135354  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.1 114.1#  
121 0.0 24.2 36.2#



#41  
Methacrylonitrile  
Concen: 0.268 ug/l  
RT: 7.694 min Scan# 2127  
Delta R.T. 0.054 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion: 41 Resp: 4193  
Ion Ratio Lower Upper  
41 100  
39 29.5 48.1 72.1#  
67 0.0 68.3 102.5#  
52 0.0 29.6 44.4#

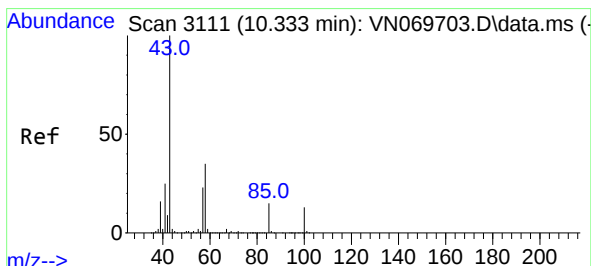
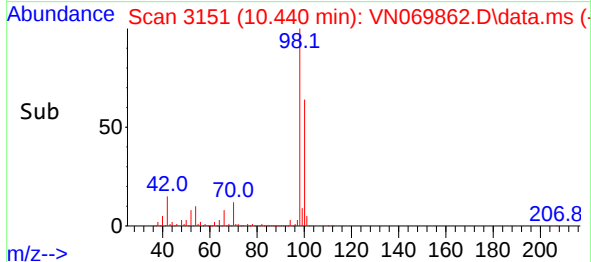
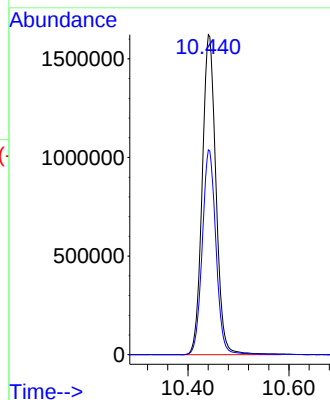
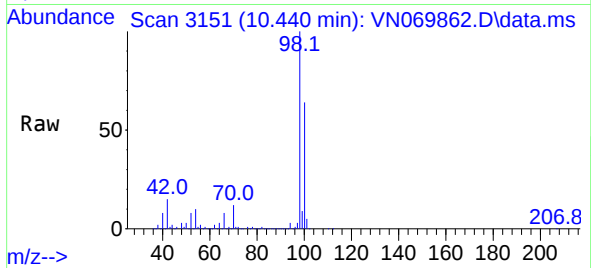




#50  
Toluene-d8  
Concen: 51.900 ug/l  
RT: 10.440 min Scan# 3152  
Delta R.T. -0.003 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

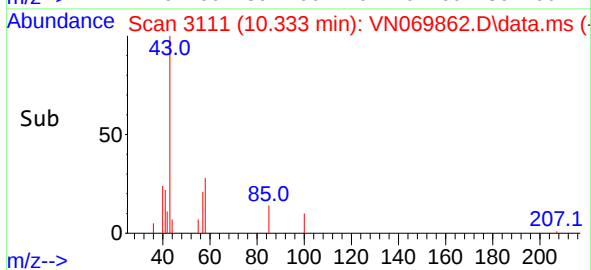
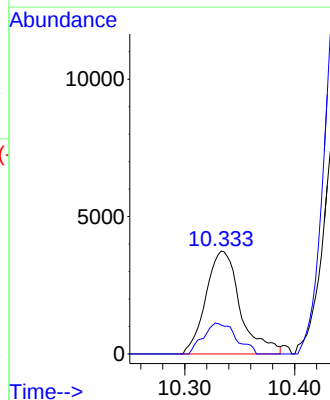
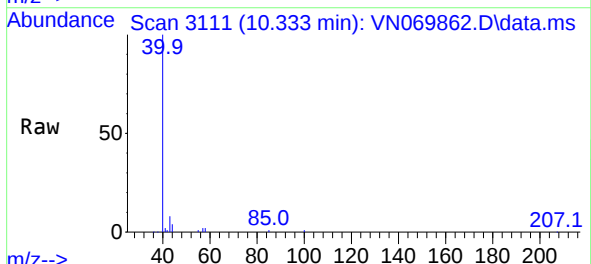
Instrument : MSVOA\_N  
ClientSampleId : EB01-20211203

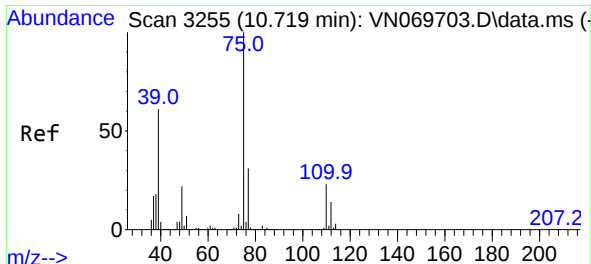
Tgt Ion: 98 Resp: 3067123  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.4 75.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.255 ug/l  
RT: 10.333 min Scan# 3111  
Delta R.T. 0.000 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion: 43 Resp: 8145  
Ion Ratio Lower Upper  
43 100  
58 28.5 30.4 45.6#

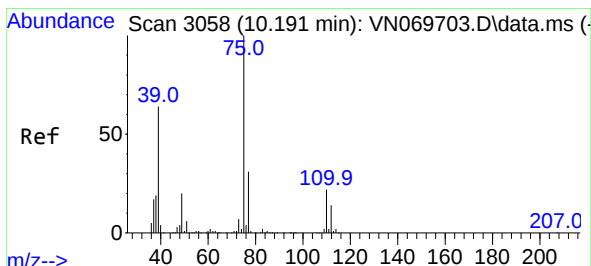
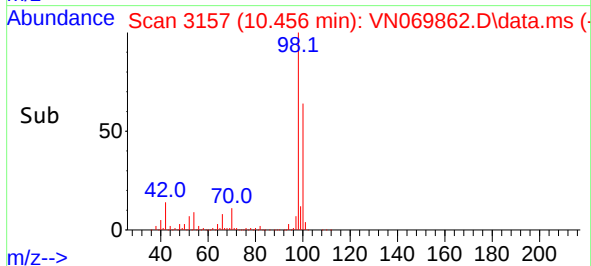
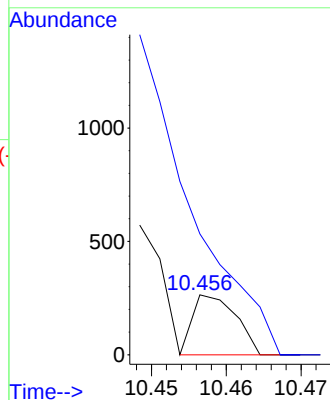
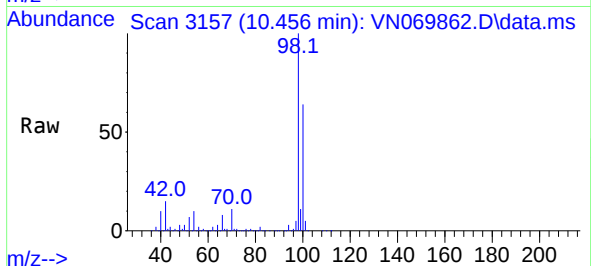




#53  
t-1,3-Dichloropropene  
Concen: 2.798 ug/l  
RT: 10.456 min Scan# 3157  
Delta R.T. -0.263 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

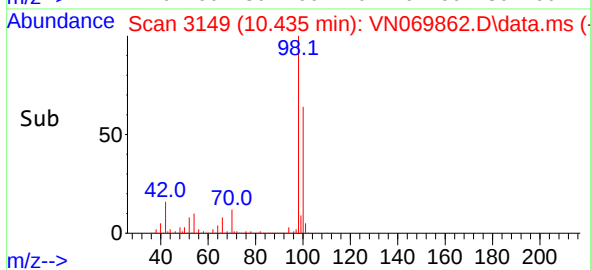
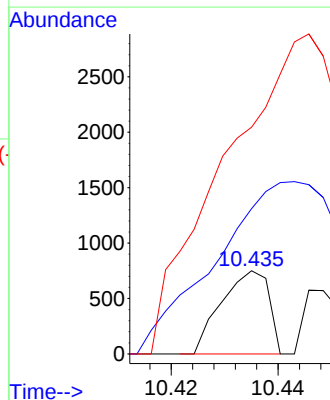
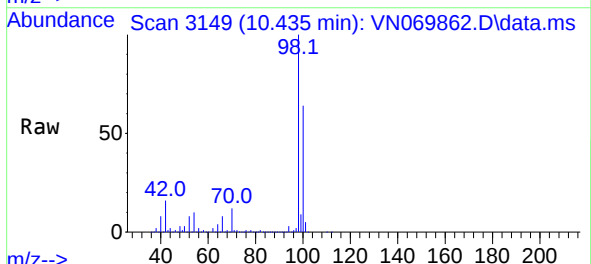
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203

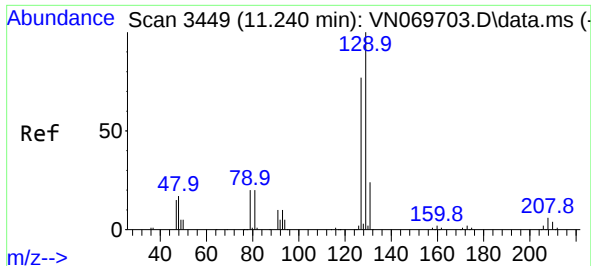
Tgt Ion: 75 Resp: 107  
Ion Ratio Lower Upper  
75 100  
77 201.9 25.6 38.4#



#54  
cis-1,3-Dichloropropene  
Concen: 2.014 ug/l  
RT: 10.435 min Scan# 3149  
Delta R.T. 0.244 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion: 75 Resp: 462  
Ion Ratio Lower Upper  
75 100  
77 103.7 26.4 39.6#  
39 149.3 42.5 63.7#

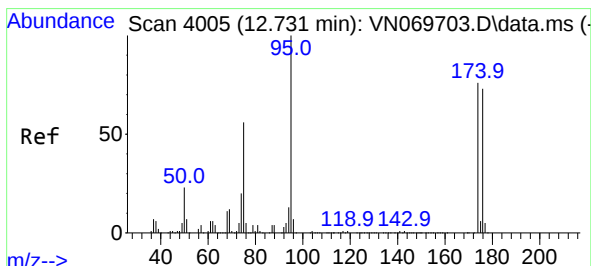
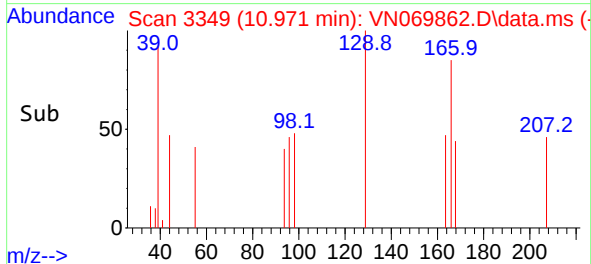
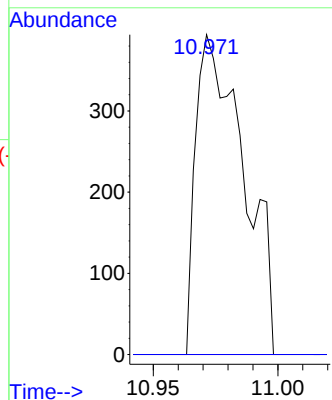
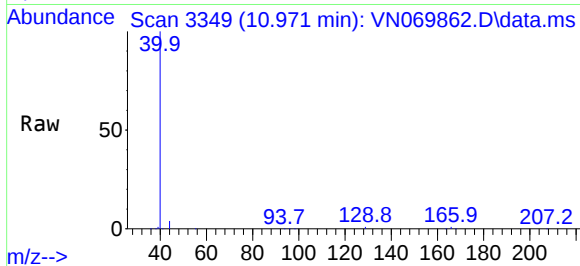




#60  
Dibromochloromethane  
Concen: 2.404 ug/l  
RT: 10.971 min Scan# 31  
Delta R.T. -0.269 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

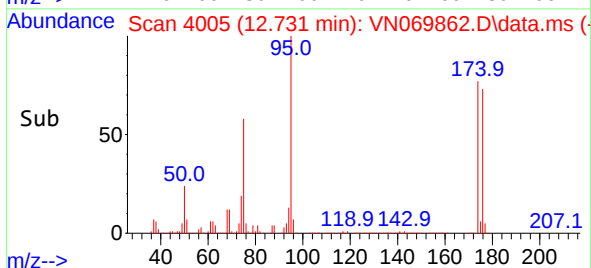
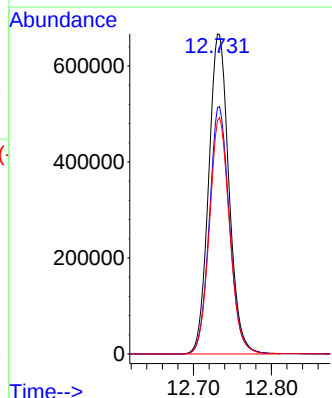
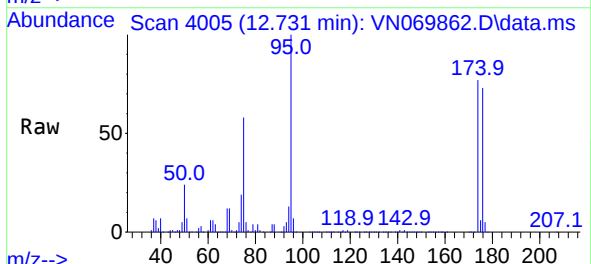
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203

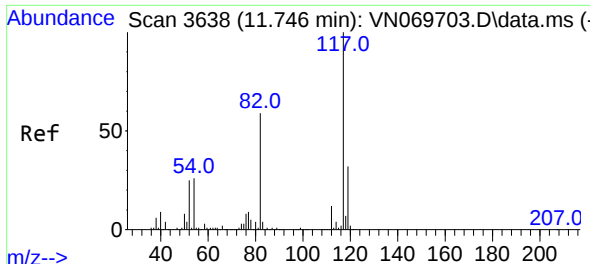
Tgt Ion:129 Resp: 526  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#



#62  
4-Bromofluorobenzene  
Concen: 56.282 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

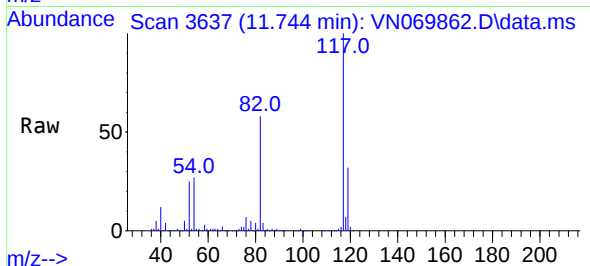
Tgt Ion: 95 Resp: 1204963  
Ion Ratio Lower Upper  
95 100  
174 76.9 0.0 187.2  
176 73.3 0.0 181.4





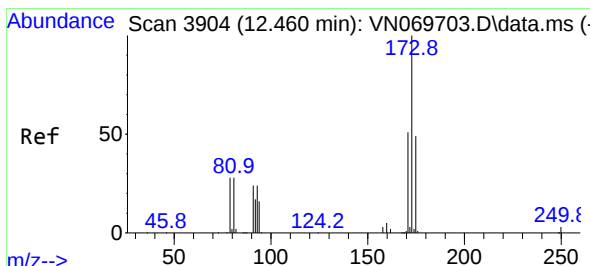
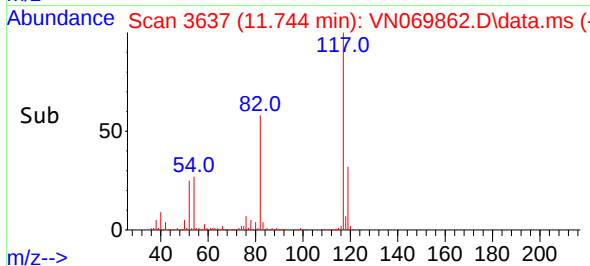
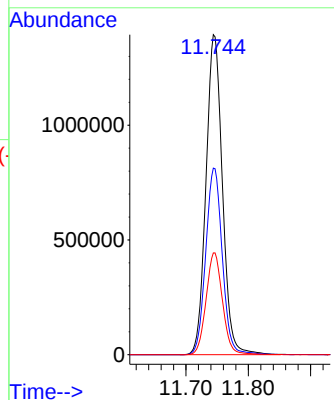
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3099  
Delta R.T. -0.002 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203



Tgt Ion:117 Resp: 2559861

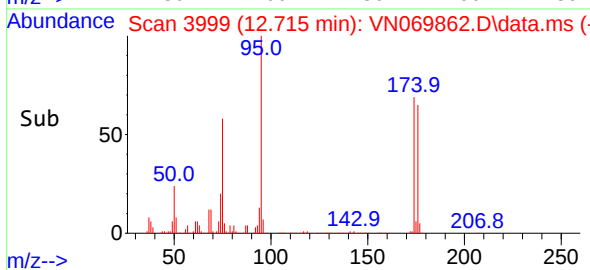
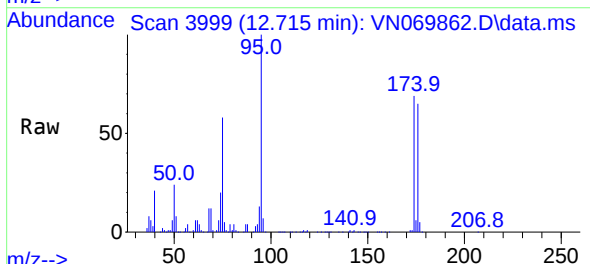
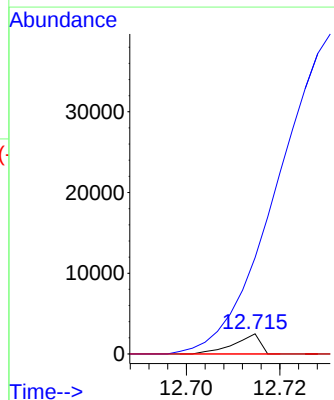
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 58.3  | 42.4  | 63.6  |
| 119 | 31.8  | 25.4  | 38.2  |

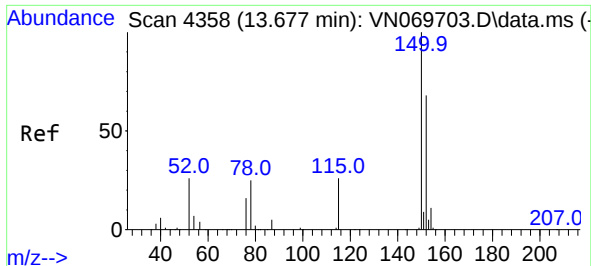


#71  
Bromoform  
Concen: 2.790 ug/l  
RT: 12.715 min Scan# 3999  
Delta R.T. 0.255 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion:173 Resp: 972

| Ion | Ratio  | Lower | Upper |
|-----|--------|-------|-------|
| 173 | 100    |       |       |
| 175 | 6761.9 | 24.2  | 72.6# |
| 254 | 0.0    | 0.0   | 0.0   |

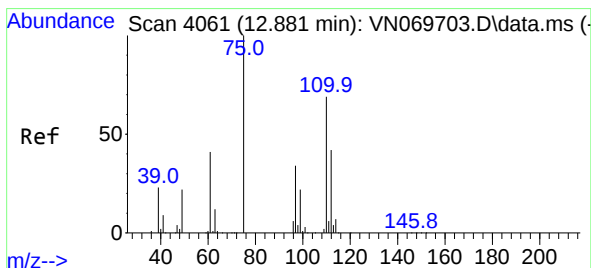
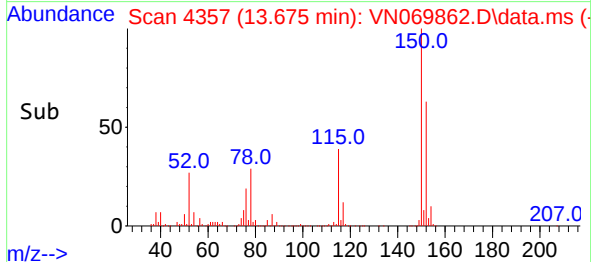
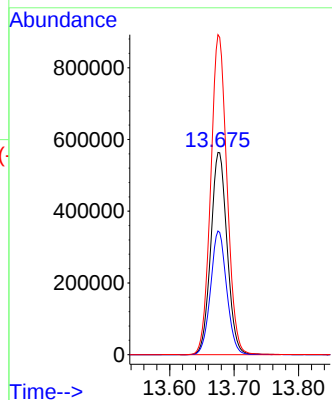
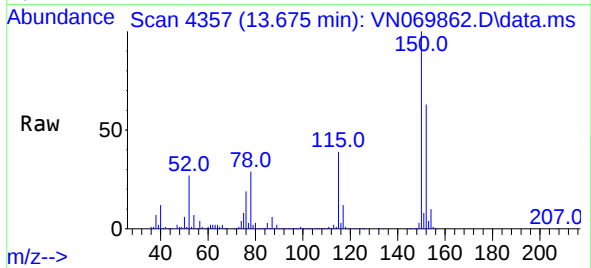




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

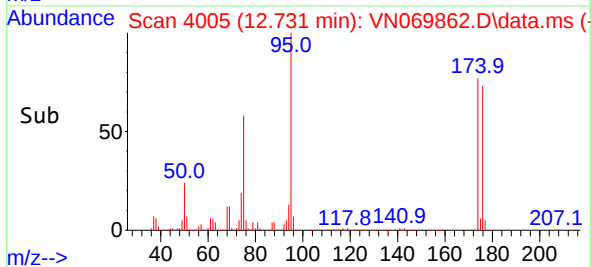
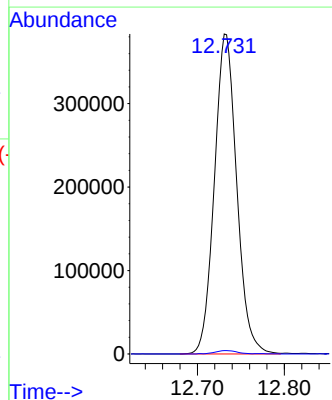
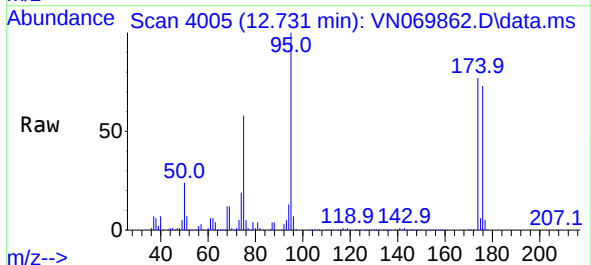
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203

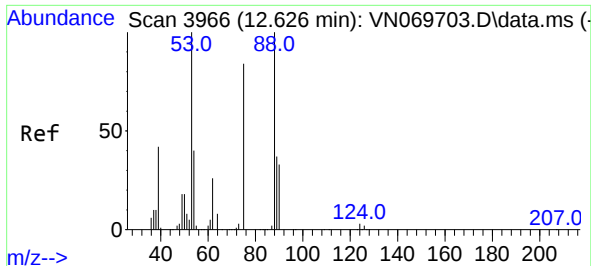
Tgt Ion:152 Resp: 992683  
Ion Ratio Lower Upper  
152 100  
115 60.1 27.5 82.5  
150 157.9 0.0 344.4



#76  
1,2,3-Trichloropropane  
Concen: 24.024 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.150 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion: 75 Resp: 683921  
Ion Ratio Lower Upper  
75 100  
77 1.1 82.6 247.8#

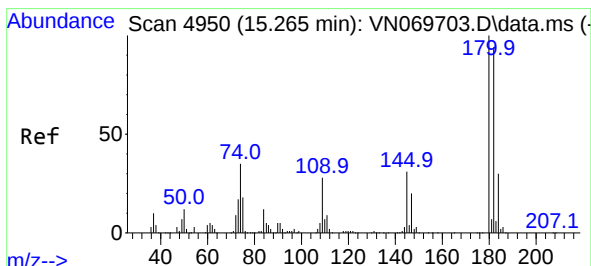
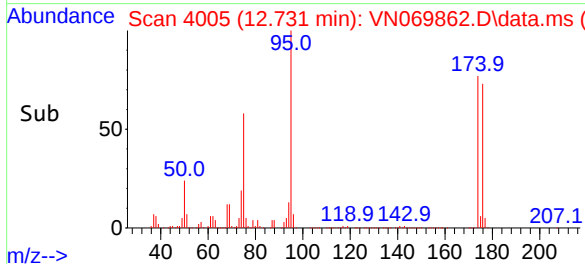
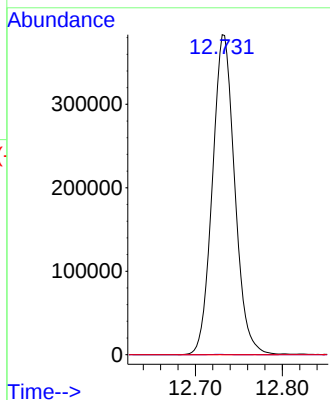
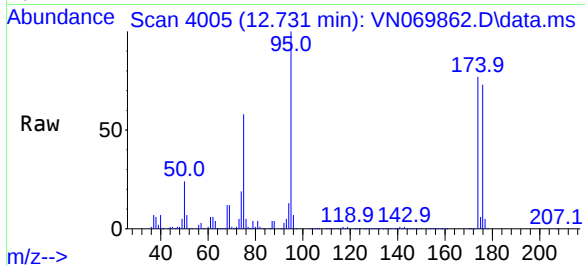




#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.303 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.105 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

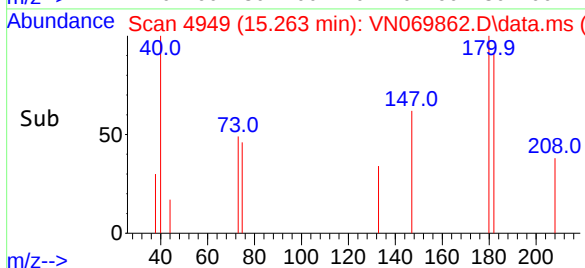
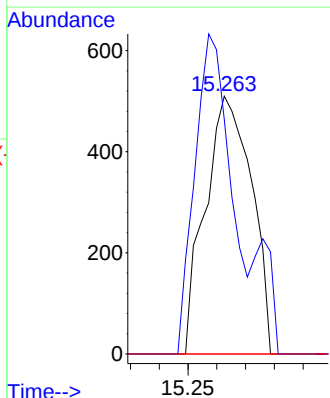
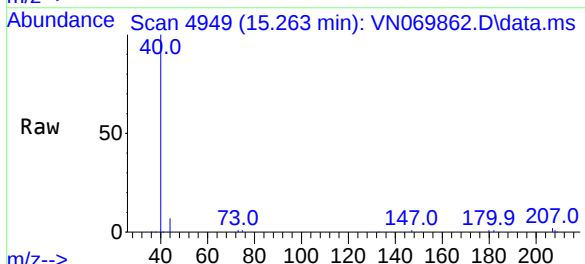
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203

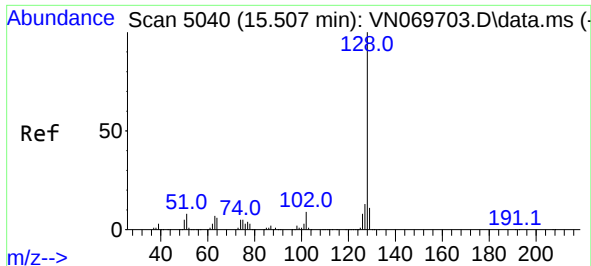
Tgt Ion: 75 Resp: 683921  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#



#93  
1,2,4-Trichlorobenzene  
Concen: 2.911 ug/l  
RT: 15.263 min Scan# 4949  
Delta R.T. -0.002 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion:180 Resp: 570  
Ion Ratio Lower Upper  
180 100  
182 95.8 48.3 144.9  
145 0.0 14.5 43.5#

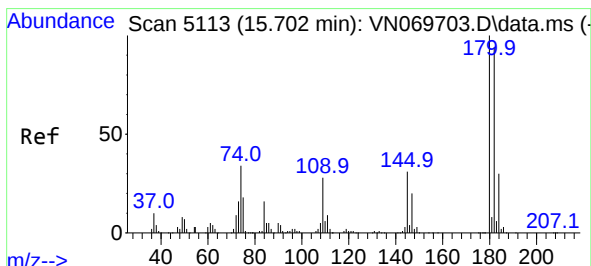
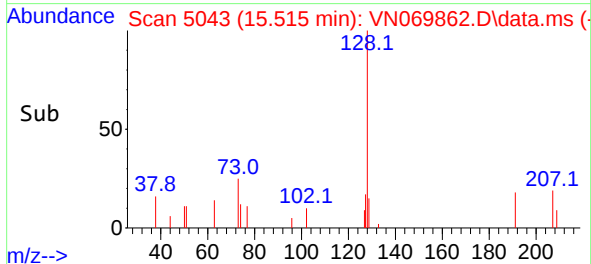
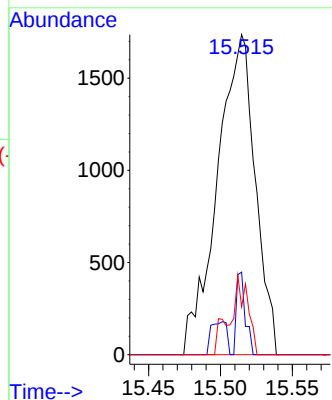
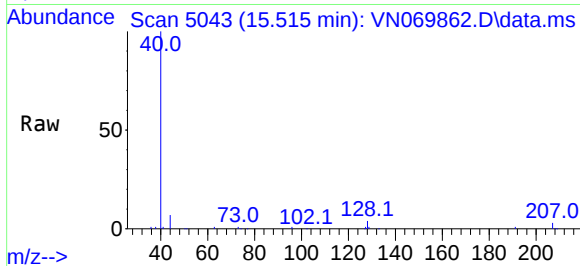




#95  
Naphthalene  
Concen: 4.045 ug/l  
RT: 15.515 min Scan# 5043  
Delta R.T. 0.008 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-20211203

Tgt Ion:128 Resp: 3181  
Ion Ratio Lower Upper  
128 100  
127 6.0 10.5 15.7#  
129 9.1 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 2.478 ug/l  
RT: 15.708 min Scan# 5115  
Delta R.T. 0.006 min  
Lab File: VN069862.D  
Acq: 8 Dec 2021 15:38

Tgt Ion:180 Resp: 716  
Ion Ratio Lower Upper  
180 100  
182 65.1 47.4 142.2  
145 22.3 15.0 45.1

