

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042822\  
 Data File : VN072234.D  
 Acq On : 28 Apr 2022 13:31  
 Operator : JC\MD  
 Sample : VN0428WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0428WBL01

Quant Time: Apr 28 14:52:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

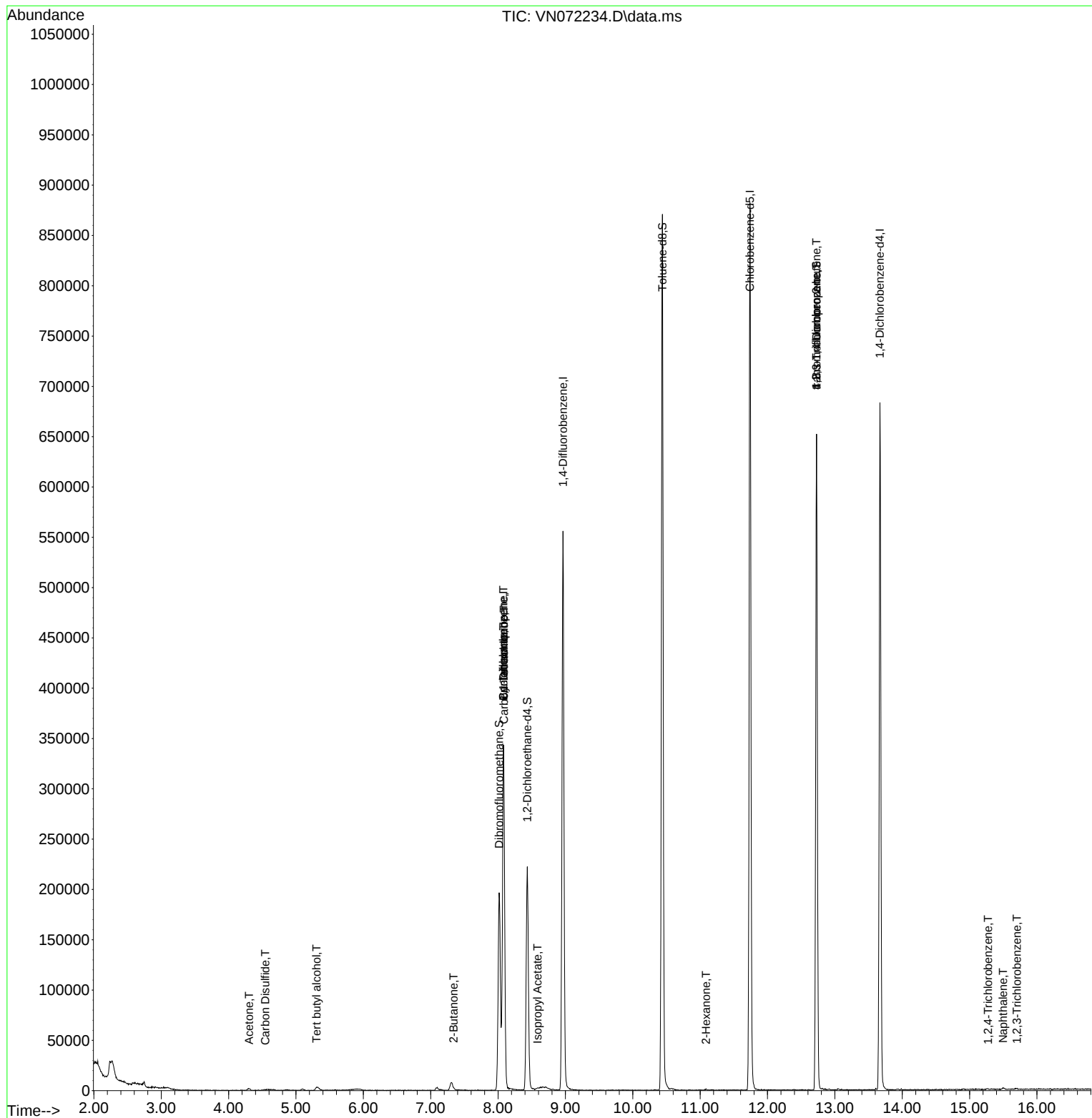
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.081          | 168  | 239333              | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.963          | 114  | 455340              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739         | 117  | 485760              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.668         | 152  | 176077              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.433          | 65   | 194085              | 52.822    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 105.640% |           |        |          |
| 35) Dibromofluoromethane      | 8.016          | 113  | 143633              | 49.283    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 98.560%  |           |        |          |
| 50) Toluene-d8                | 10.439         | 98   | 583391              | 50.942    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 101.880% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.727         | 95   | 229223              | 60.304    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 120.600% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 2.304          | 50   | 897                 | Below Cal |        | 99       |
| 5) Bromomethane               | 2.869          | 94   | 422                 | Below Cal | #      | 65       |
| 6) Chloroethane               | 3.040          | 64   | 492                 | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 5.304          | 59   | 1380                | 2.285     | ug/l # | 72       |
| 16) Acetone                   | 4.304          | 43   | 1676                | 1.058     | ug/l # | 42       |
| 17) Carbon Disulfide          | 4.545          | 76   | 313                 | 0.421     | ug/l # | 75       |
| 25) 2-Butanone                | 7.339          | 43   | 1009                | 0.400     | ug/l # | 45       |
| 31) Cyclohexane               | 8.081          | 56   | 6179                | 1.259     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 8.081          | 75   | 22113               | 5.213     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 27209               | 5.989     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.586          | 43   | 1776                | 0.999     | ug/l # | 53       |
| 59) 2-Hexanone                | 11.086         | 43   | 1021                | 0.273     | ug/l   | 68       |
| 75) 1,1,2,2-Tetrachloroethane | 12.810         | 83   | 61                  | Below Cal | #      | 25       |
| 76) 1,2,3-Trichloropropane    | 12.727         | 75   | 124809              | 31.540    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727         | 75   | 124809              | 81.960    | ug/l # | 10       |
| 93) 1,2,4-Trichlorobenzene    | 15.274         | 180  | 526                 | 2.604     | ug/l # | 12       |
| 95) Naphthalene               | 15.498         | 128  | 2207                | 4.521     | ug/l # | 74       |
| 96) 1,2,3-Trichlorobenzene    | 15.704         | 180  | 732                 | 2.930     | ug/l # | 71       |
| -----                         |                |      |                     |           |        |          |

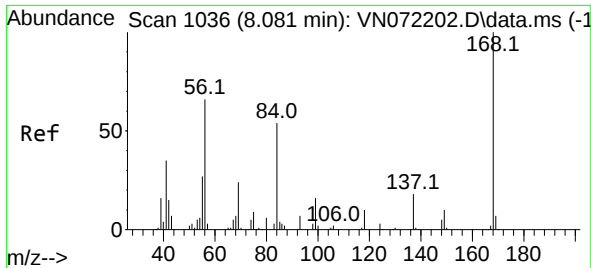
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042822\  
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MSVOA\_N  
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VN0428WBL01

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Response via : Initial Calibration

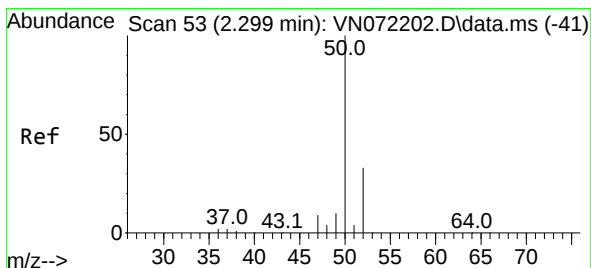
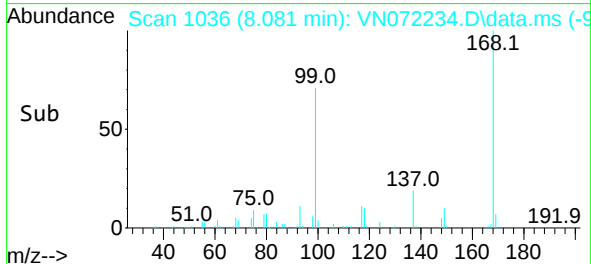
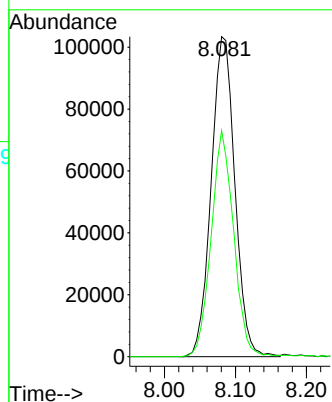
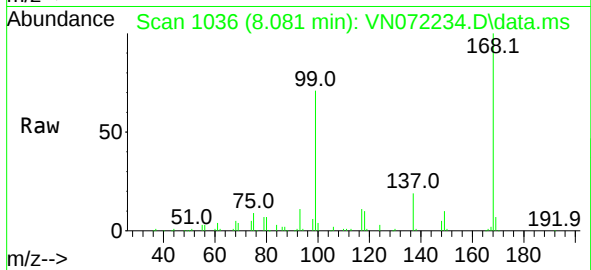




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.081 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

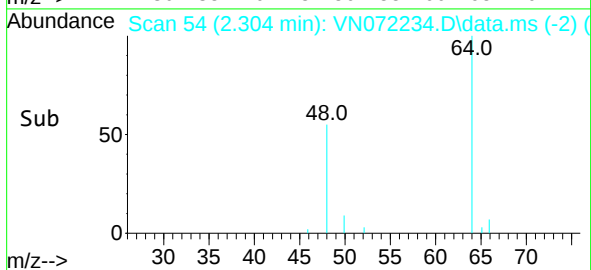
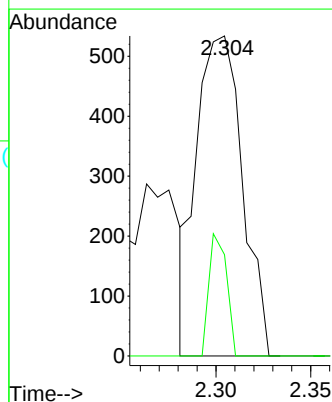
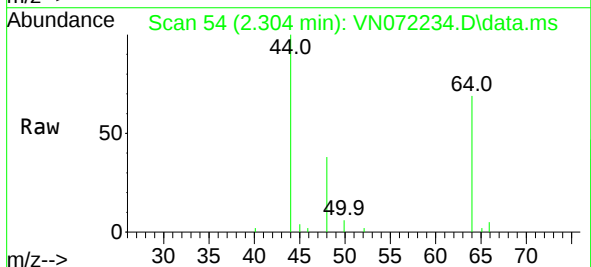
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0428WBL01

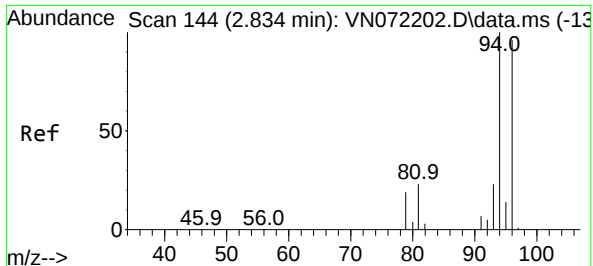
Tgt Ion:168 Resp: 239333  
Ion Ratio Lower Upper  
168 100  
99 70.6 42.3 63.5#



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.304 min Scan# 54  
Delta R.T. 0.005 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion: 50 Resp: 897  
Ion Ratio Lower Upper  
50 100  
52 31.6 25.7 38.5





#5

Bromomethane

Concen: Below Cal

RT: 2.869 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN072234.D

Acq: 28 Apr 2022 13:31

Instrument :

MSVOA\_N

ClientSampleId :

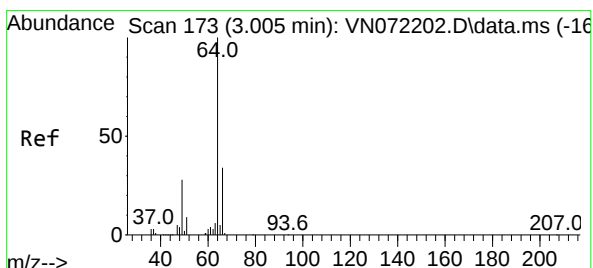
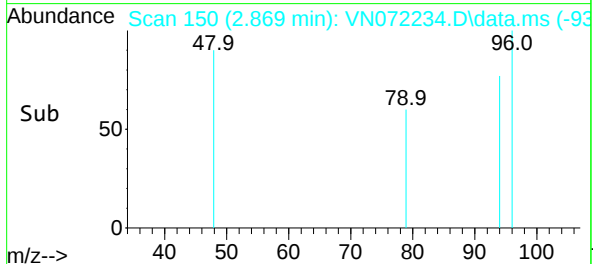
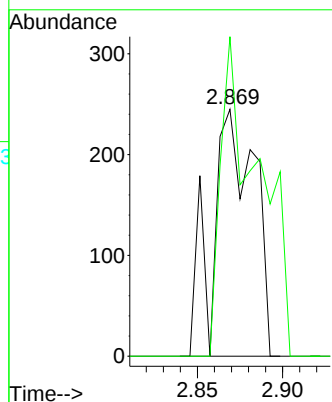
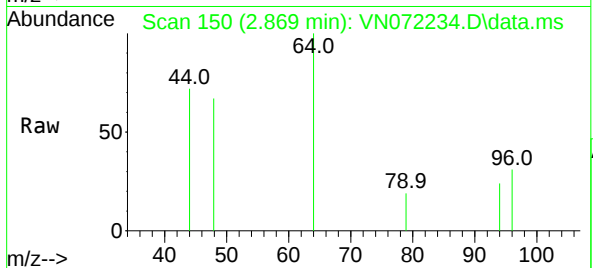
VN0428WBL01

Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

94 100

96 129.4 76.0 114.0#



#6

Chloroethane

Concen: Below Cal

RT: 3.040 min Scan# 179

Delta R.T. 0.035 min

Lab File: VN072234.D

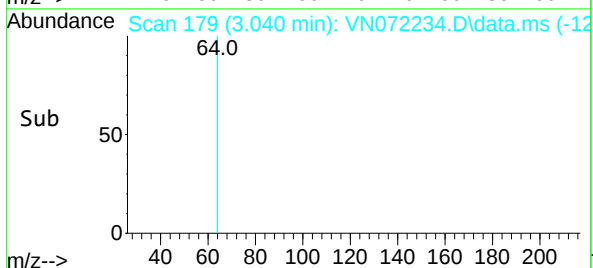
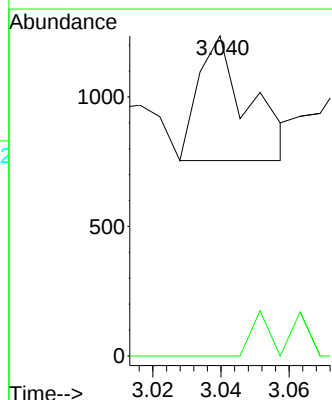
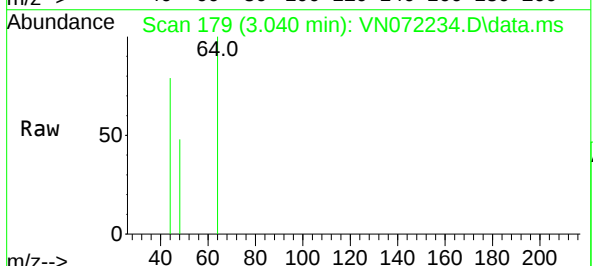
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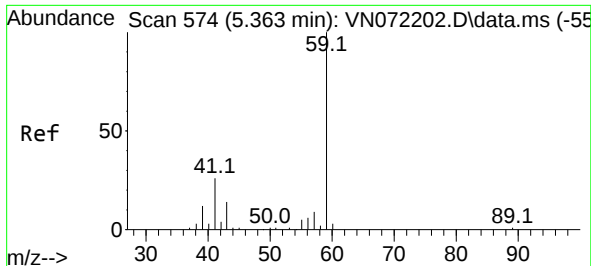
Tgt Ion: 64 Resp: 492

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.4#

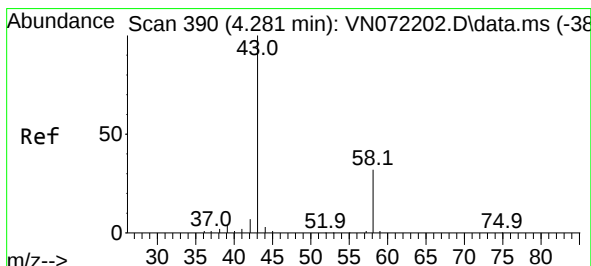
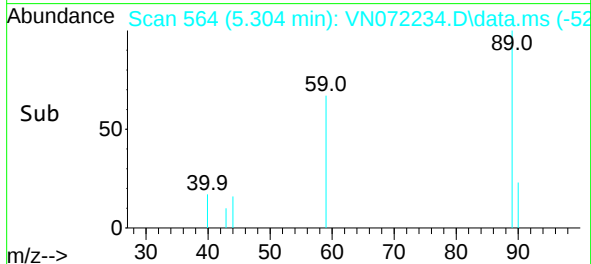
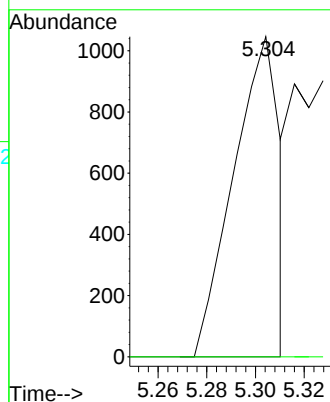
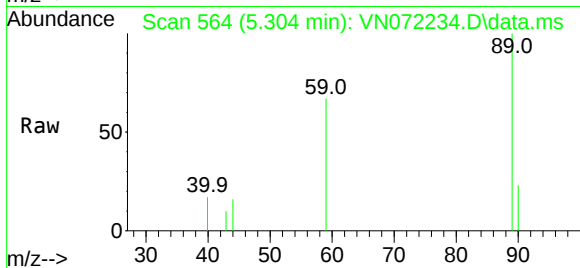




#11  
Tert butyl alcohol  
Concen: 2.285 ug/l  
RT: 5.304 min Scan# 511  
Delta R.T. -0.059 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

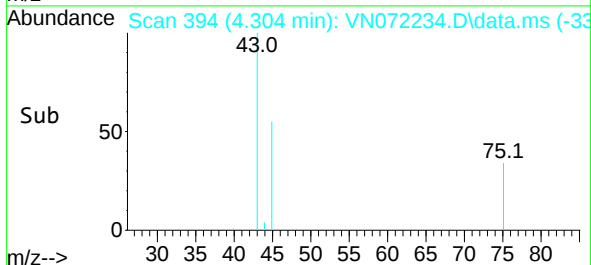
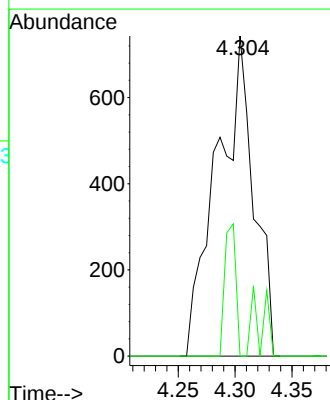
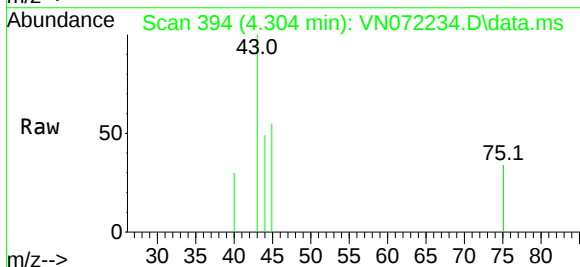
Instrument :  
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ClientSampleId :  
VN0428WBL01

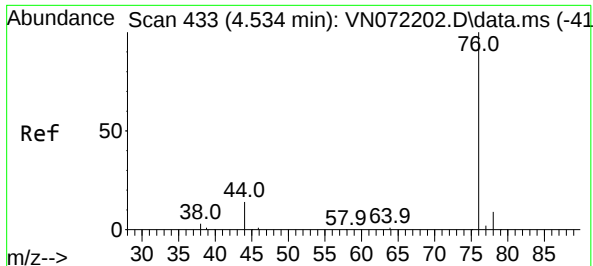
Tgt Ion: 59 Resp: 1380  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#16  
Acetone  
Concen: 1.058 ug/l  
RT: 4.304 min Scan# 394  
Delta R.T. 0.023 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion: 43 Resp: 1676  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.0 39.0#





#17

Carbon Disulfide

Concen: 0.421 ug/l

RT: 4.545 min Scan# 41

Delta R.T. 0.011 min

Lab File: VN072234.D

Acq: 28 Apr 2022 13:31

Instrument :

MSVOA\_N

ClientSampleId :

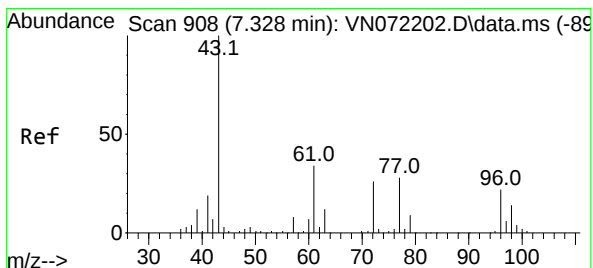
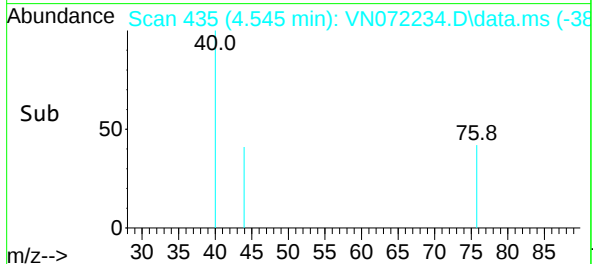
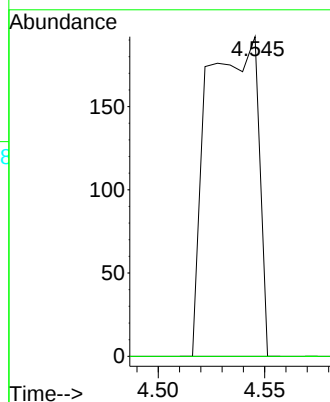
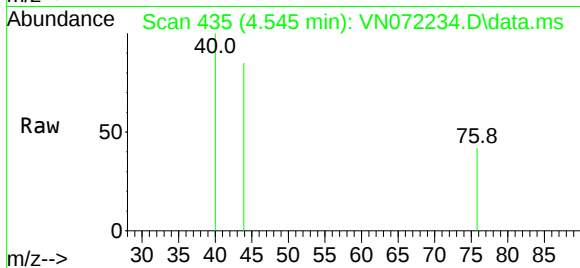
VN0428WBL01

Tgt Ion: 76 Resp: 313

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#25

2-Butanone

Concen: 0.400 ug/l

RT: 7.339 min Scan# 910

Delta R.T. 0.011 min

Lab File: VN072234.D

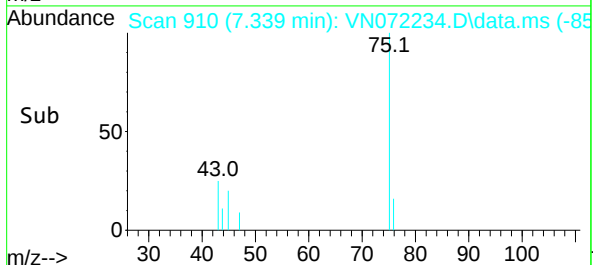
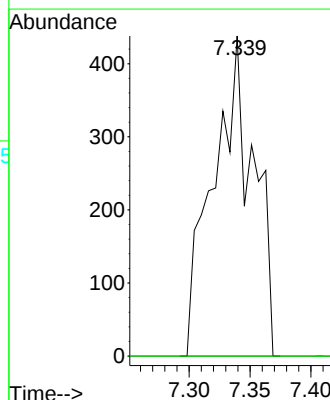
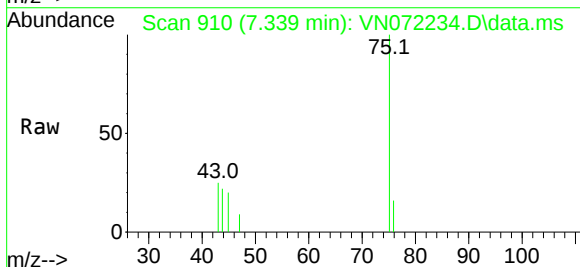
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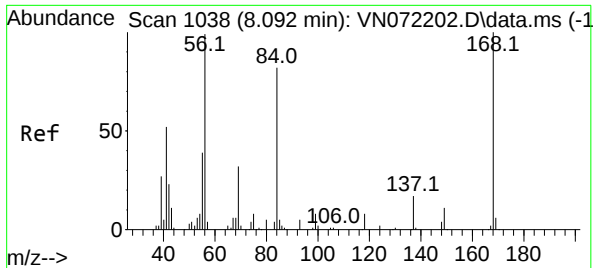
Tgt Ion: 43 Resp: 1009

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#

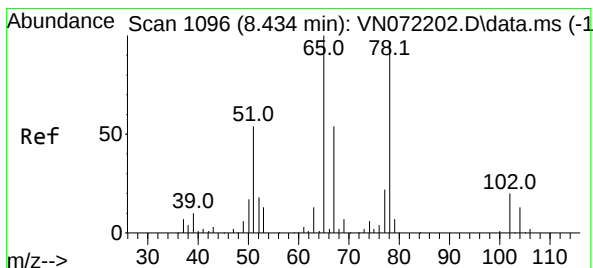
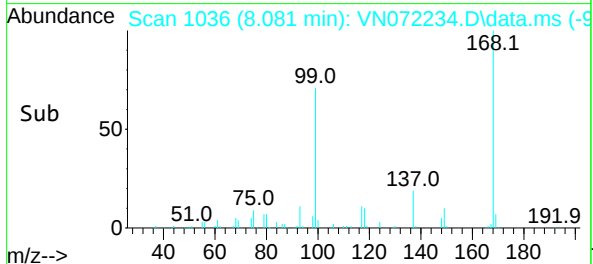
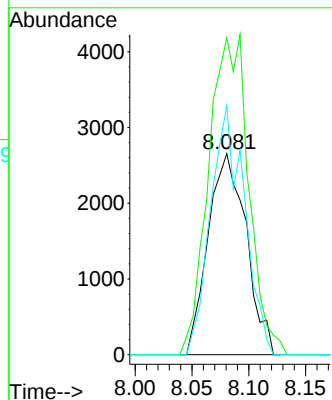
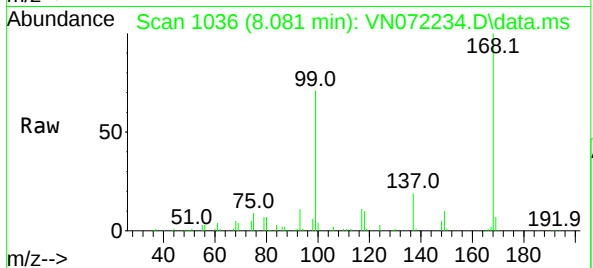




#31  
Cyclohexane  
Concen: 1.259 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.011 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

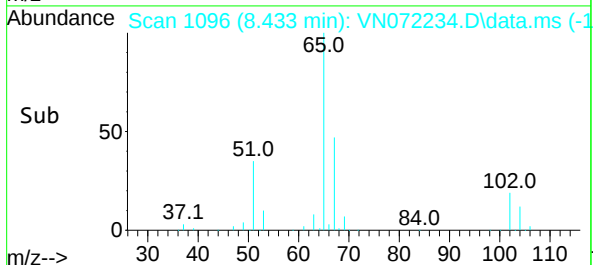
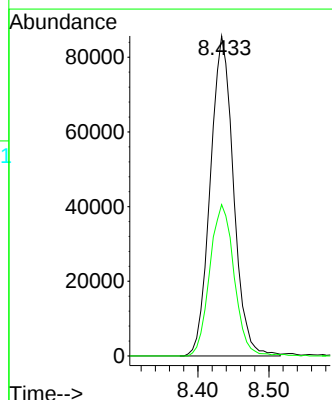
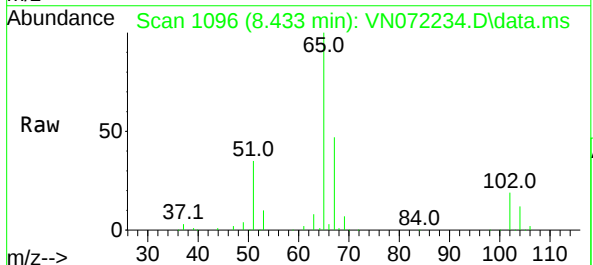
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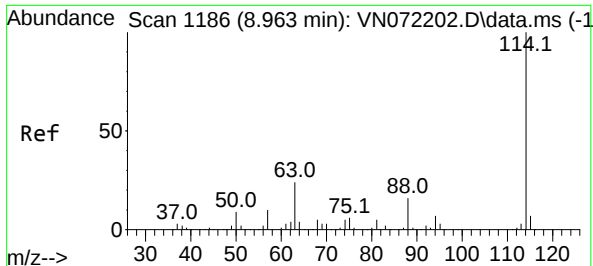
Tgt Ion: 56 Resp: 6179  
Ion Ratio Lower Upper  
56 100  
69 157.6 27.8 41.8#  
84 123.6 76.9 115.3#



#33  
1,2-Dichloroethane-d4  
Concen: 52.822 ug/l  
RT: 8.433 min Scan# 1096  
Delta R.T. -0.001 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion: 65 Resp: 194085  
Ion Ratio Lower Upper  
65 100  
67 49.5 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN072234.D

Acq: 28 Apr 2022 13:31

Instrument :

MSVOA\_N

ClientSampleId :

VN0428WBL01

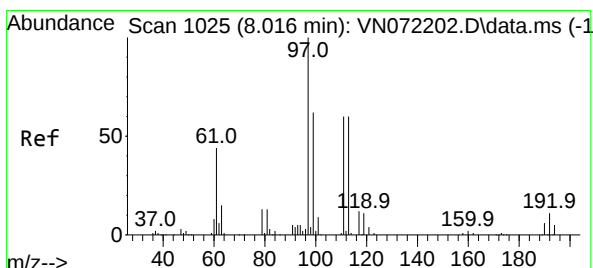
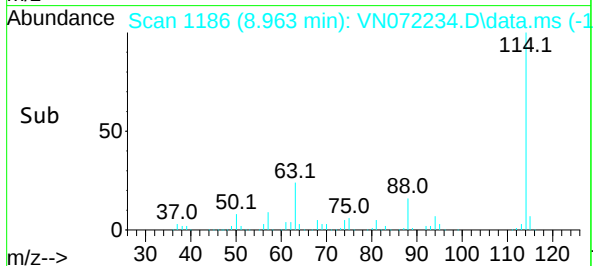
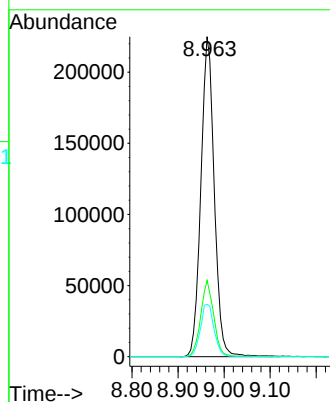
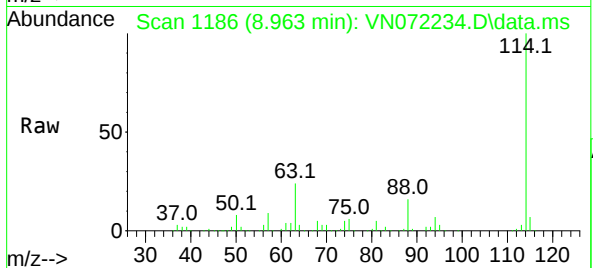
Tgt Ion:114 Resp: 455340

Ion Ratio Lower Upper

114 100

63 23.9 0.0 40.0

88 16.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.283 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.000 min

Lab File: VN072234.D

Acq: 28 Apr 2022 13:31

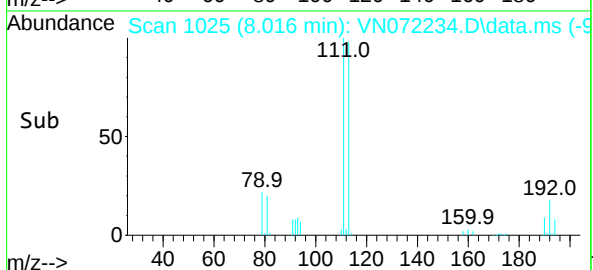
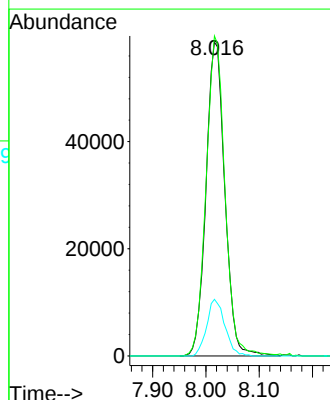
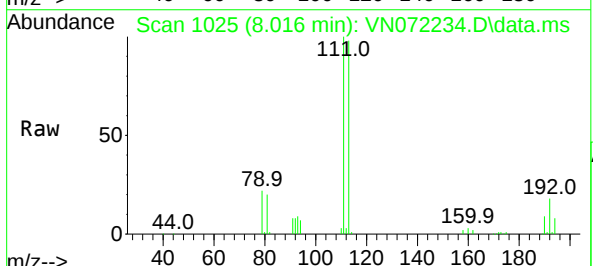
Tgt Ion:113 Resp: 143633

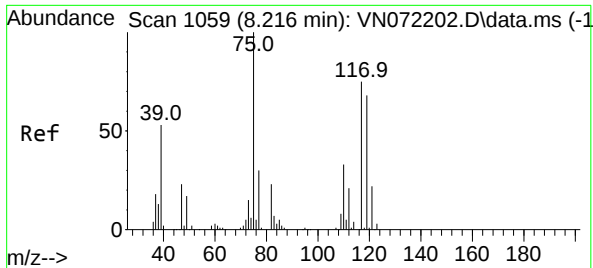
Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

192 17.5 17.0 25.6

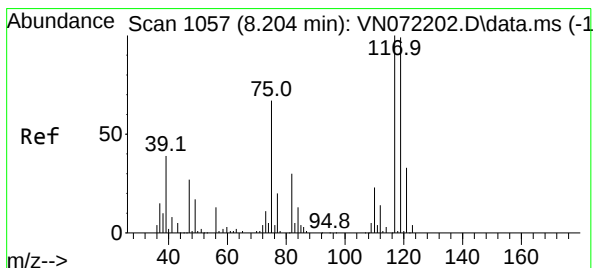
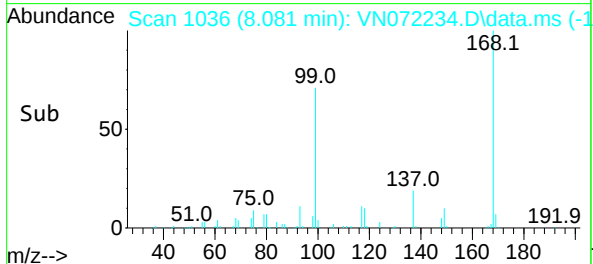
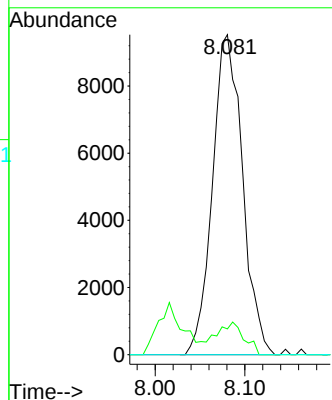
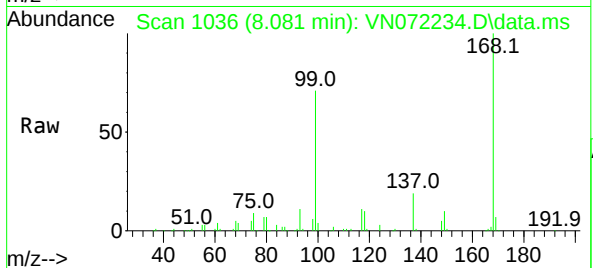




#36  
1,1-Dichloropropene  
Concen: 5.213 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.135 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

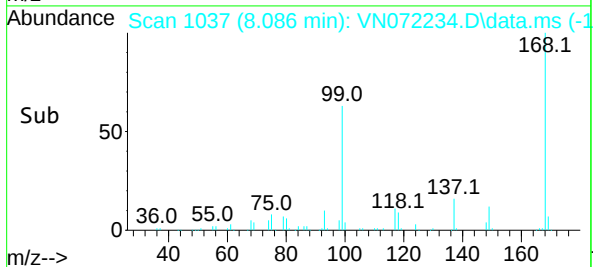
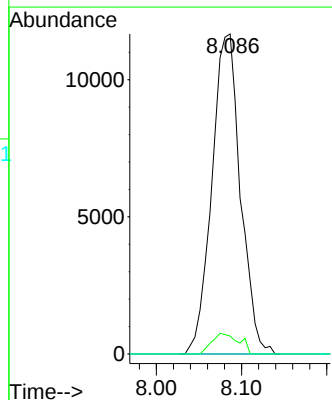
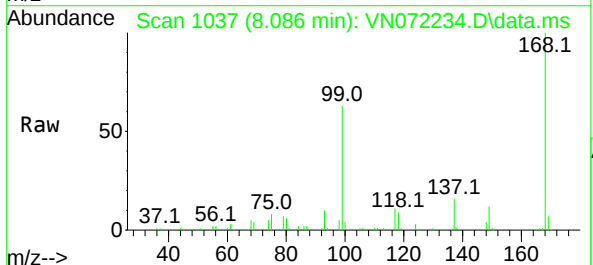
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0428WBL01

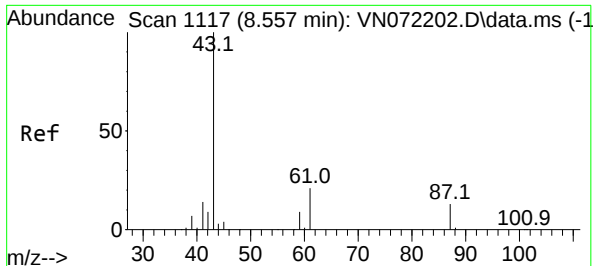
Tgt Ion: 75 Resp: 22113  
Ion Ratio Lower Upper  
75 100  
110 9.1 18.3 54.8#  
77 0.0 25.1 37.7#



#38  
Carbon Tetrachloride  
Concen: 5.989 ug/l  
RT: 8.086 min Scan# 1037  
Delta R.T. -0.118 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion: 117 Resp: 27209  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.8 113.8#  
121 0.0 24.6 37.0#

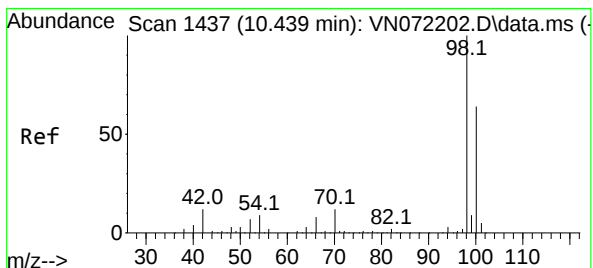
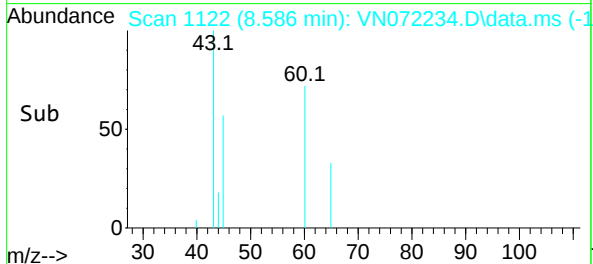
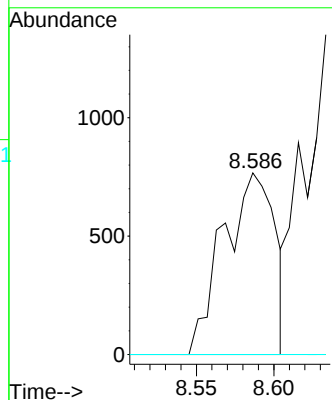
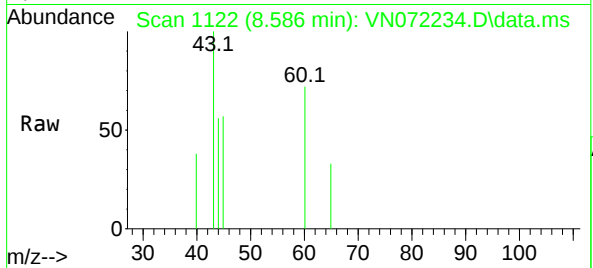




#43  
Isopropyl Acetate  
Concen: 0.999 ug/l  
RT: 8.586 min Scan# 1117  
Delta R.T. 0.029 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

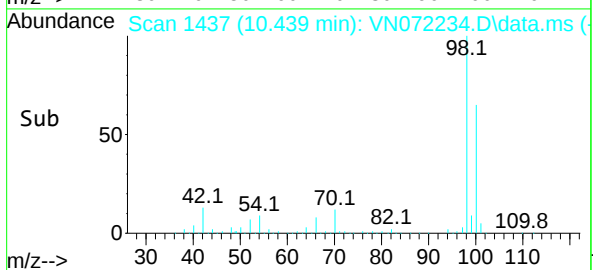
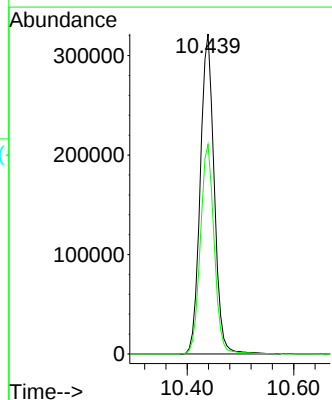
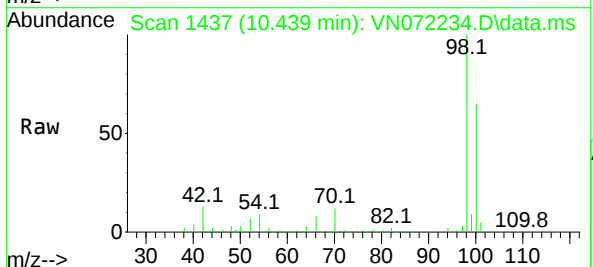
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0428WBL01

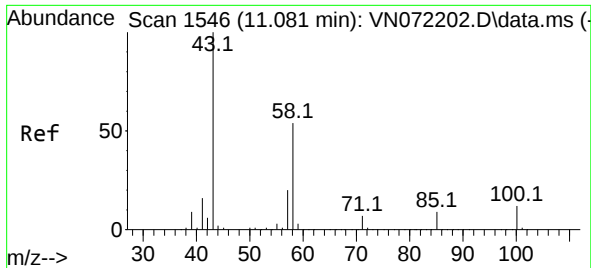
Tgt Ion: 43 Resp: 1776  
Ion Ratio Lower Upper  
43 100  
61 0.0 21.9 32.9#  
87 0.0 12.0 18.0#



#50  
Toluene-d8  
Concen: 50.942 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion: 98 Resp: 583391  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.6 78.8

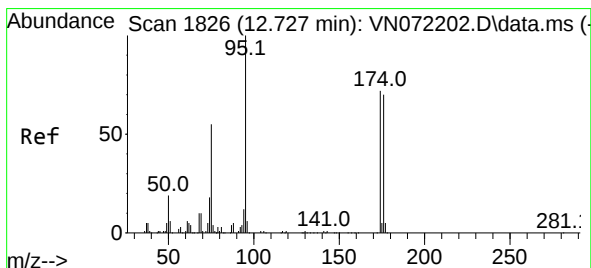
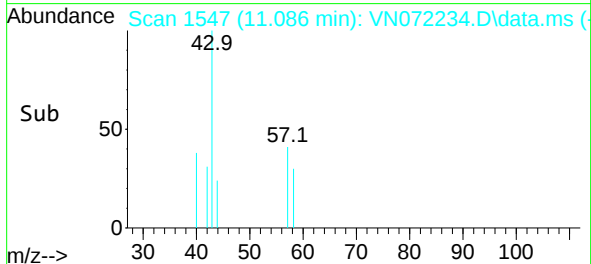
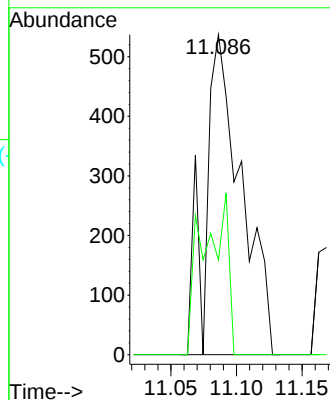
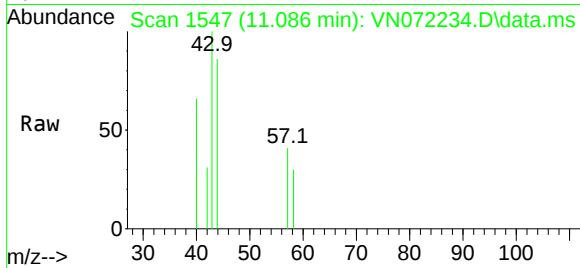




#59  
2-Hexanone  
Concen: 0.273 ug/l  
RT: 11.086 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

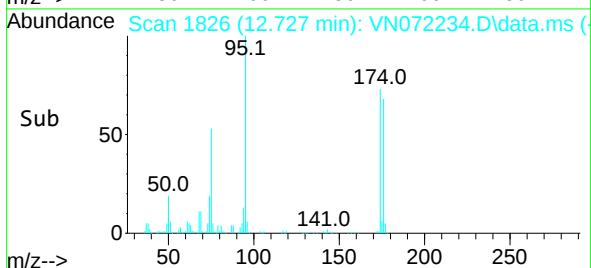
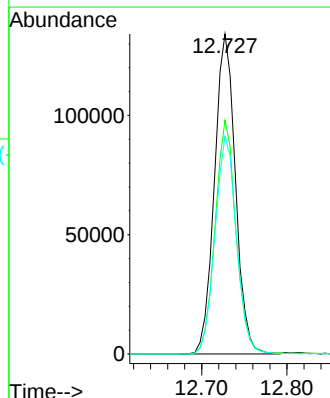
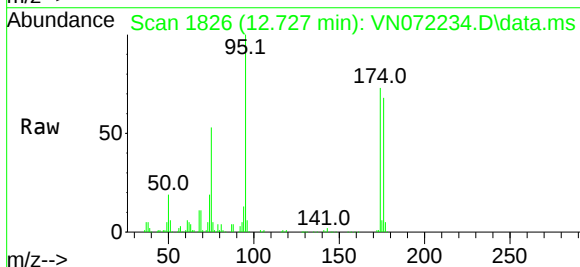
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0428WBL01

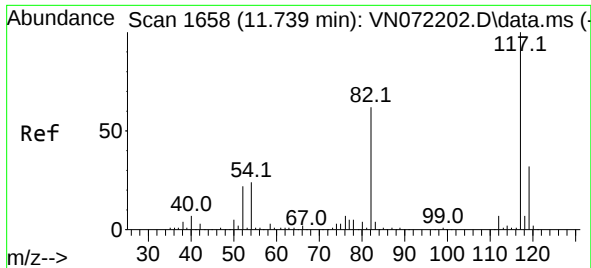
Tgt Ion: 43 Resp: 1021  
Ion Ratio Lower Upper  
43 100  
58 35.6 29.7 89.1



#62  
4-Bromofluorobenzene  
Concen: 60.304 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion: 95 Resp: 229223  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 167.6  
176 69.5 0.0 163.4

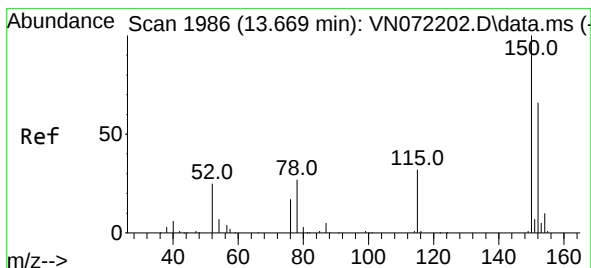
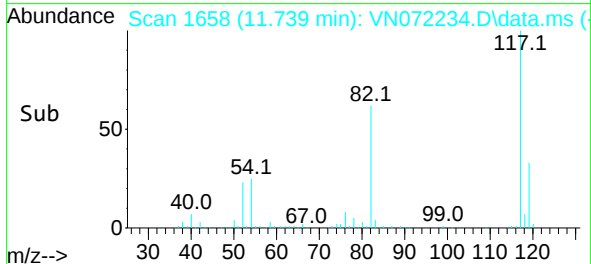
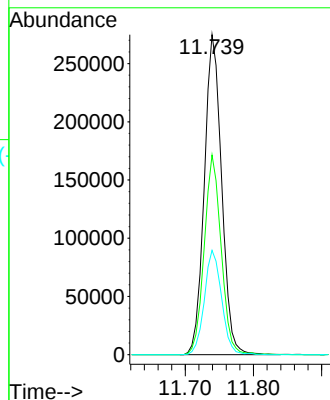
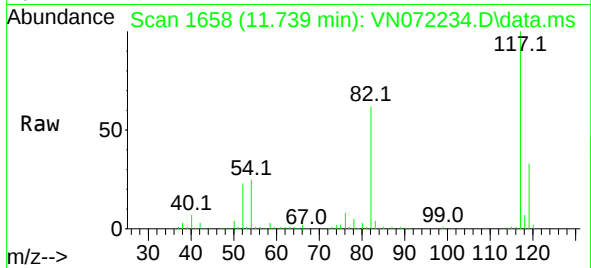




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

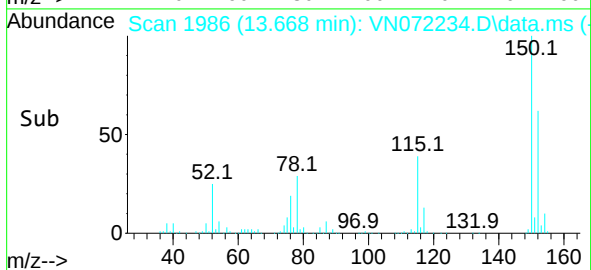
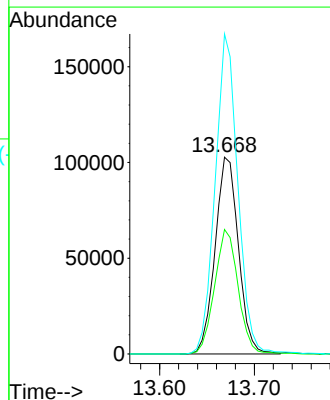
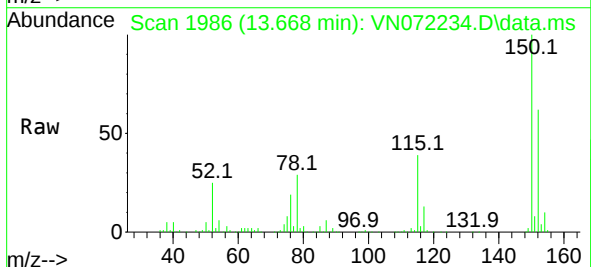
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0428WBL01

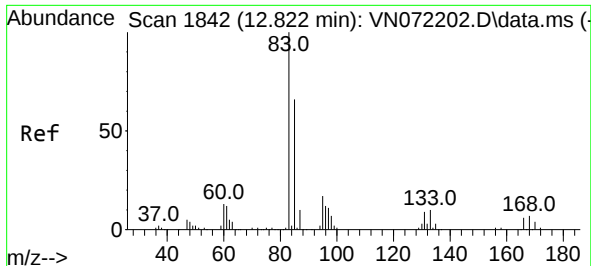
Tgt Ion:117 Resp: 485760  
Ion Ratio Lower Upper  
117 100  
82 62.4 44.2 66.2  
119 32.6 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.668 min Scan# 1986  
Delta R.T. -0.001 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion:152 Resp: 176077  
Ion Ratio Lower Upper  
152 100  
115 63.8 28.9 86.7  
150 158.0 0.0 356.2

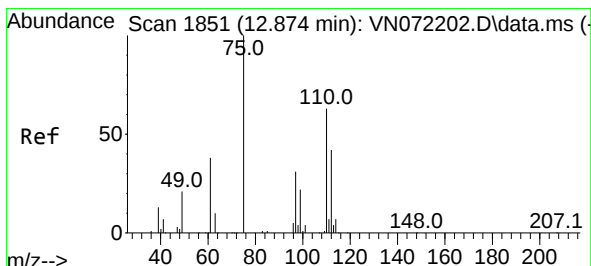
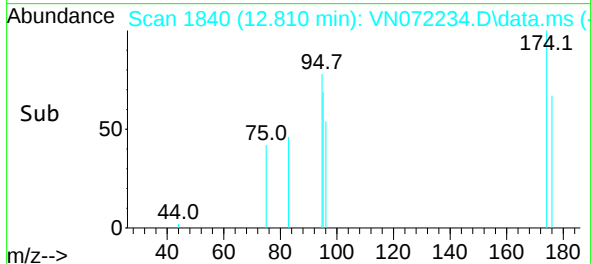
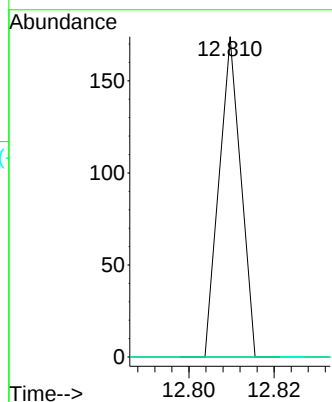
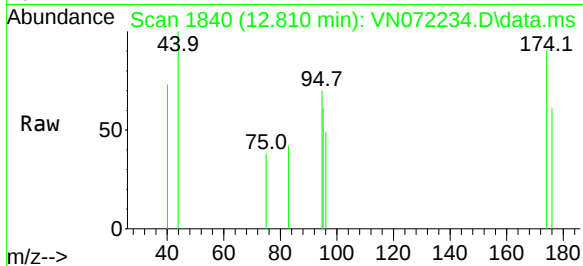




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.810 min Scan# 1840  
Delta R.T. -0.012 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

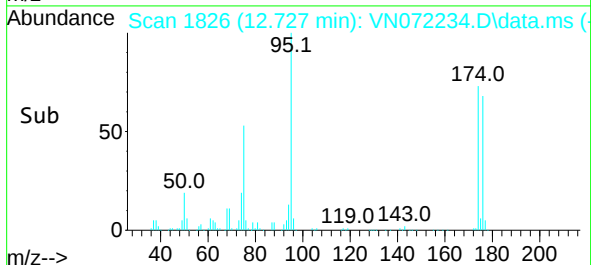
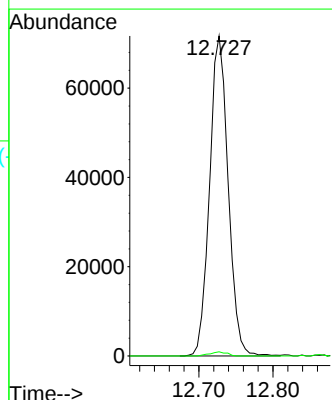
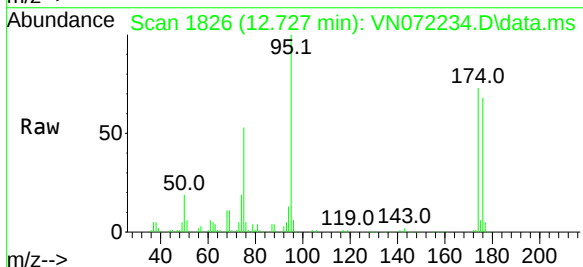
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0428WBL01

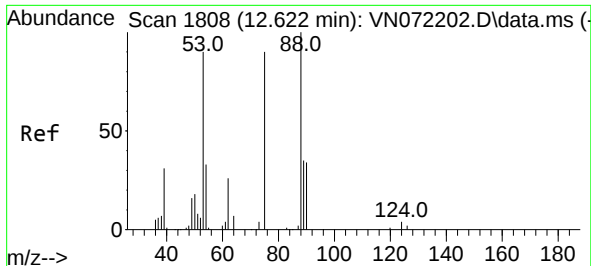
Tgt Ion: 83 Resp: 61  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.3 15.9#  
85 0.0 32.3 96.9#



#76  
1,2,3-Trichloropropane  
Concen: 31.540 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.147 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion: 75 Resp: 124809  
Ion Ratio Lower Upper  
75 100  
77 1.2 98.5 295.5#

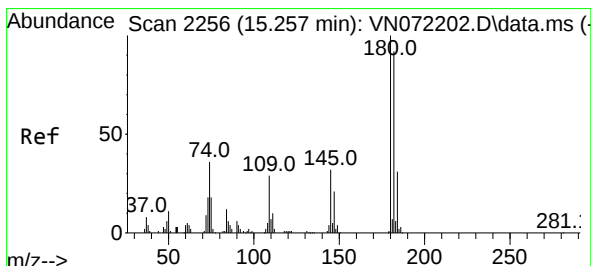
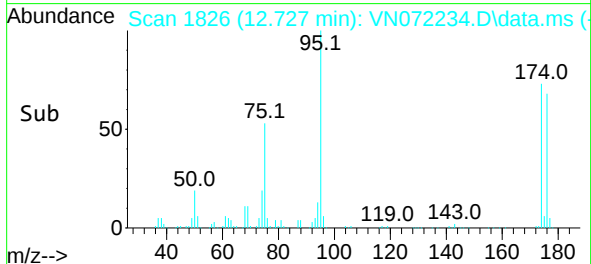
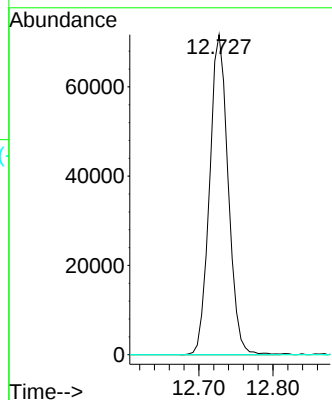
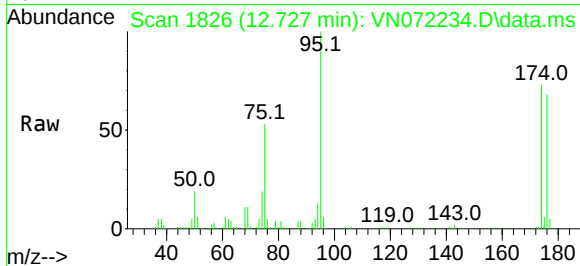




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 81.960 ug/l  
 RT: 12.727 min Scan# 1808  
 Delta R.T. 0.105 min  
 Lab File: VN072234.D  
 Acq: 28 Apr 2022 13:31

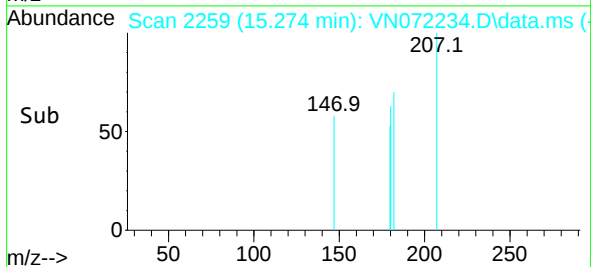
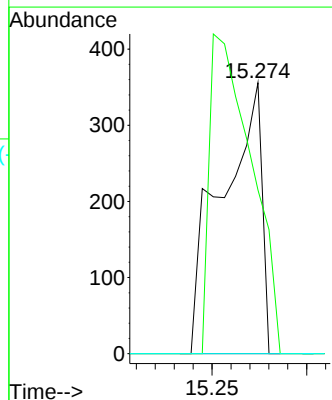
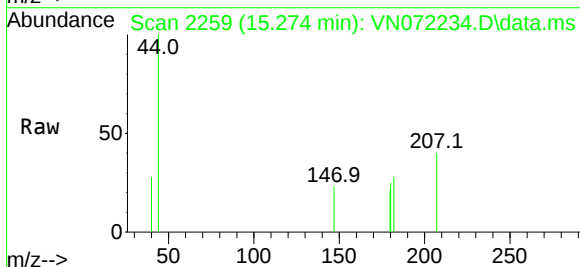
Instrument :  
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 ClientSampleId :  
 VN0428WBL01

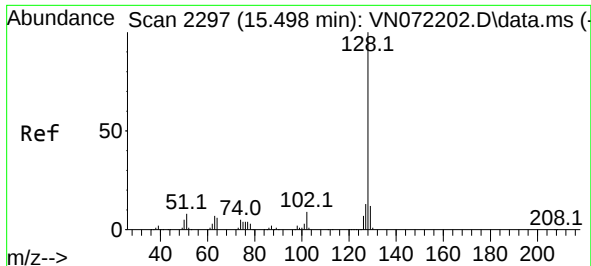
Tgt Ion: 75 Resp: 124809  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.0 117.0#  
 89 0.0 37.2 55.8#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.604 ug/l  
 RT: 15.274 min Scan# 2259  
 Delta R.T. 0.017 min  
 Lab File: VN072234.D  
 Acq: 28 Apr 2022 13:31

Tgt Ion:180 Resp: 526  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 47.5 142.5#  
 145 0.0 14.5 43.5#

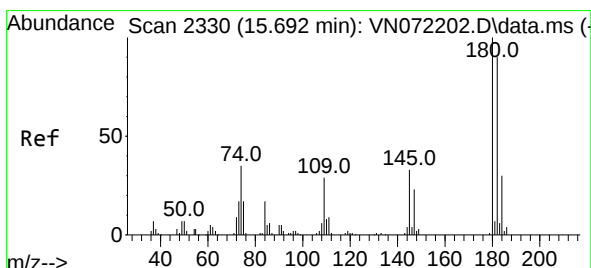
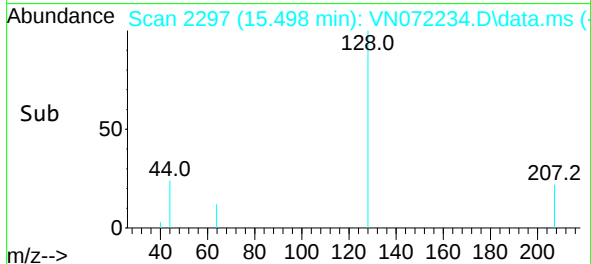
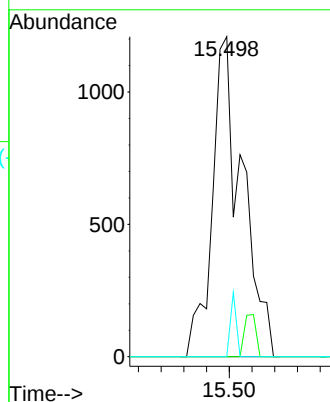
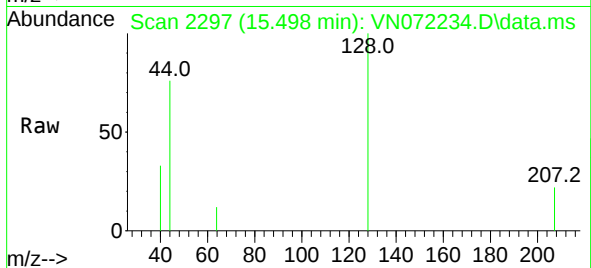




#95  
Naphthalene  
Concen: 4.521 ug/l  
RT: 15.498 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0428WBL01

Tgt Ion:128 Resp: 2207  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 3.9 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.930 ug/l  
RT: 15.704 min Scan# 2332  
Delta R.T. 0.012 min  
Lab File: VN072234.D  
Acq: 28 Apr 2022 13:31

Tgt Ion:180 Resp: 732  
Ion Ratio Lower Upper  
180 100  
182 69.5 47.8 143.3  
145 10.7 15.5 46.5#

