

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032223\  
 Data File : VN077117.D  
 Acq On : 22 Mar 2023 19:01  
 Operator : JC\MD  
 Sample : 01849-05  
 Misc : 13.24 g/5.0mL/100uL/5.0mL/MSVOA\_N/MEOH  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CB-10-25.0-030823

Quant Time: Mar 22 23:27:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 20 08:50:30 2023  
 Response via : Initial Calibration

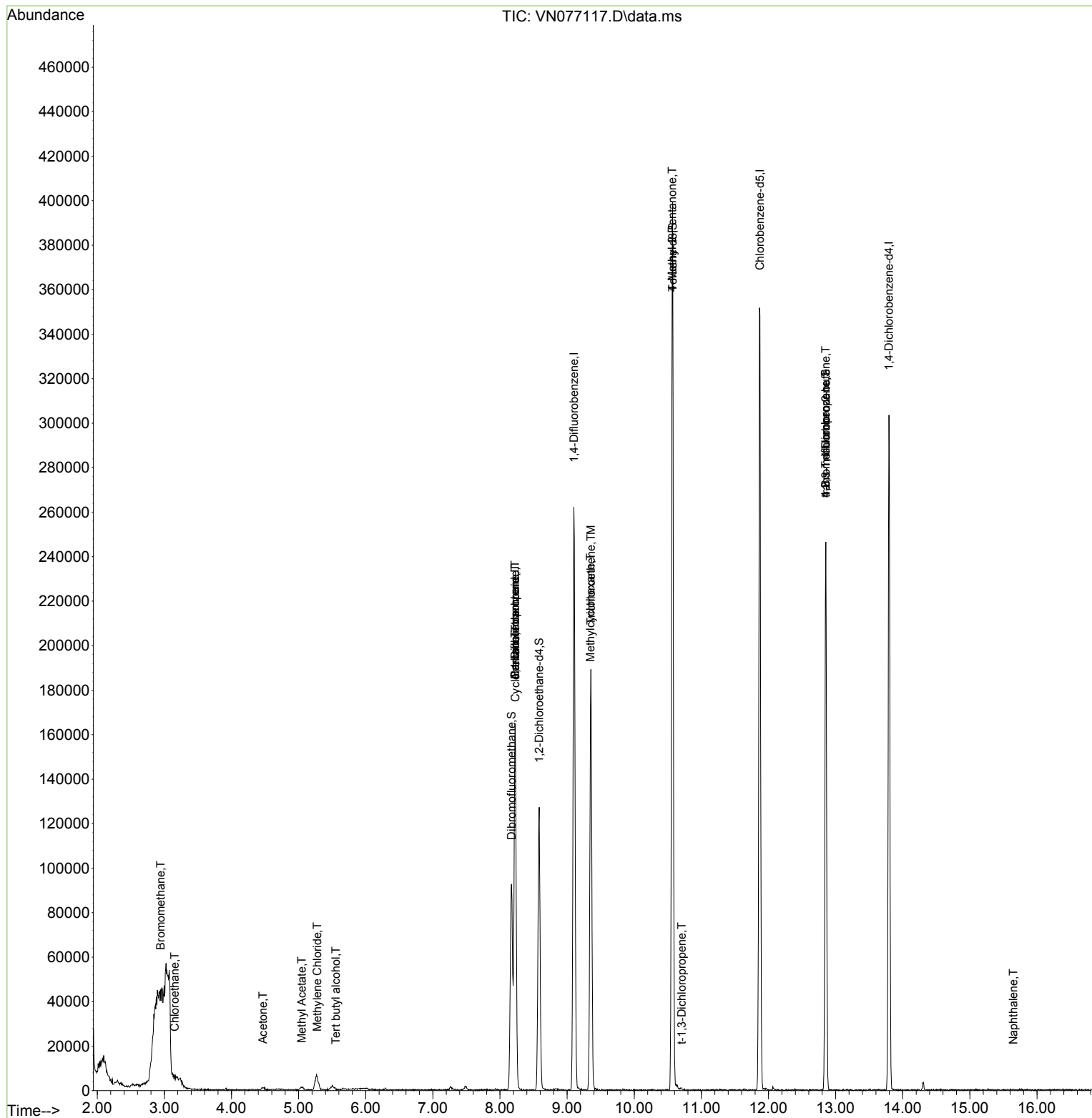
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.225          | 168  | 104964              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.101          | 114  | 198112              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 178730              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 68297               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 99947               | 59.612 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 119.220% |        |        |          |
| 35) Dibromofluoromethane      | 8.172          | 113  | 65470               | 47.189 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 94.380%  |        |        |          |
| 50) Toluene-d8                | 10.572         | 98   | 257629              | 51.983 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 103.960% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 75833               | 43.302 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 86.600%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 5) Bromomethane               | 2.943          | 94   | 230                 | 0.298  | ug/l # | 71       |
| 6) Chloroethane               | 3.154          | 64   | 634                 | 0.878  | ug/l # | 42       |
| 11) Tert butyl alcohol        | 5.554          | 59   | 250                 | 1.023  | ug/l # | 72       |
| 16) Acetone                   | 4.466          | 43   | 1071                | 1.434  | ug/l # | 43       |
| 18) Methyl Acetate            | 5.048          | 43   | 2567                | 0.911  | ug/l # | 64       |
| 20) Methylene Chloride        | 5.278          | 84   | 5466                | 3.371  | ug/l   | 95       |
| 31) Cyclohexane               | 8.231          | 56   | 3898                | 1.421  | ug/l # | 64       |
| 36) 1,1-Dichloropropene       | 8.225          | 75   | 11460               | 5.288  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.225          | 117  | 12623               | 5.980  | ug/l # | 14       |
| 39) Methylcyclohexane         | 9.348          | 83   | 750                 | 0.296  | ug/l # | 1        |
| 44) Trichloroethene           | 9.354          | 130  | 59272               | 39.264 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.566         | 43   | 1458                | 0.646  | ug/l # | 1        |
| 53) t-1,3-Dichloropropene     | 10.707         | 75   | 524                 | 0.232  | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 12.854         | 75   | 45626               | 25.827 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.854         | 75   | 45626               | 71.091 | ug/l # | 10       |
| 95) Naphthalene               | 15.648         | 128  | 85                  | 1.930  | ug/l # | 70       |
| -----                         |                |      |                     |        |        |          |

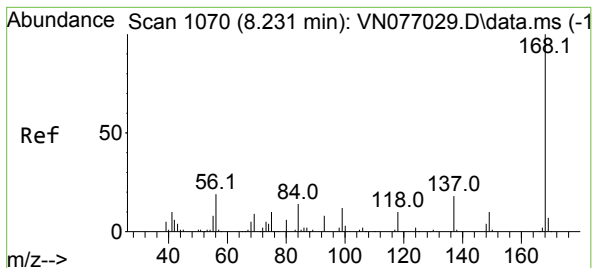
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon Mar 20 08:50:30 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.225 min Scan# 10

Delta R.T. -0.006 min

Lab File: VN077117.D

Acq: 22 Mar 2023 19:01

Instrument :

MSVOA\_N

ClientSampleId :

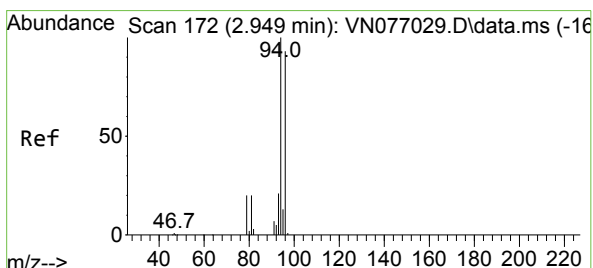
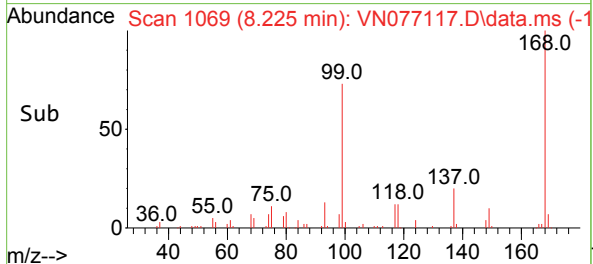
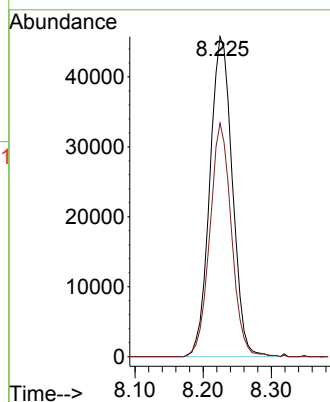
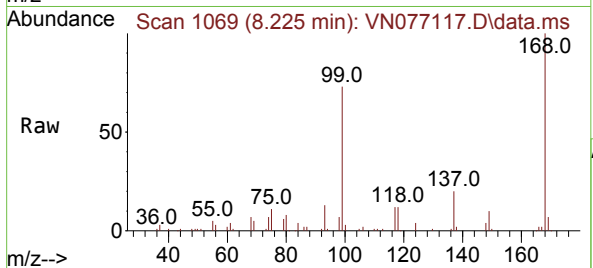
CB-10-25.0-030823

Tgt Ion:168 Resp: 104964

Ion Ratio Lower Upper

168 100

99 72.9 53.9 80.9



#5

Bromomethane

Concen: 0.298 ug/l

RT: 2.943 min Scan# 171

Delta R.T. -0.006 min

Lab File: VN077117.D

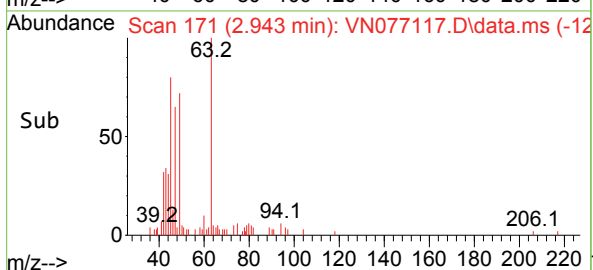
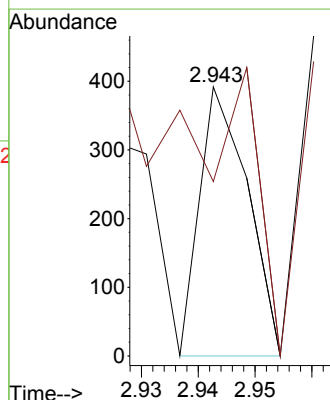
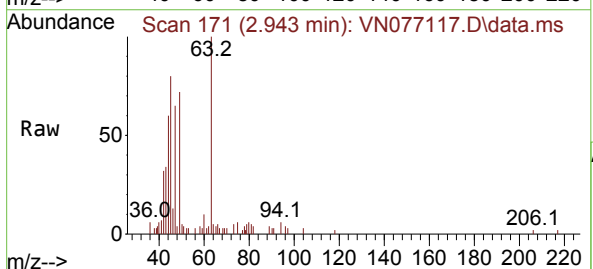
Acq: 22 Mar 2023 19:01

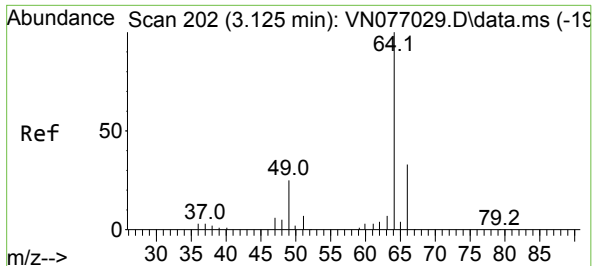
Tgt Ion: 94 Resp: 230

Ion Ratio Lower Upper

94 100

96 64.8 74.1 111.1#

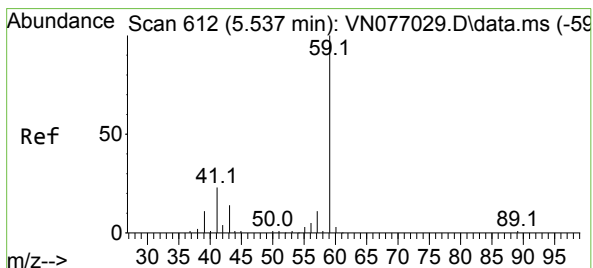
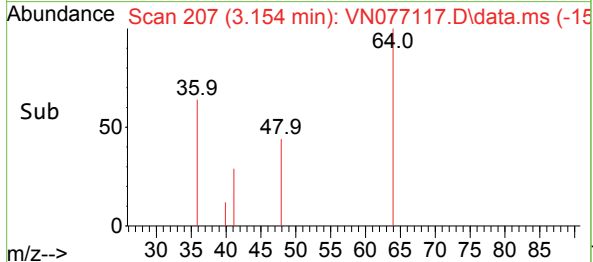
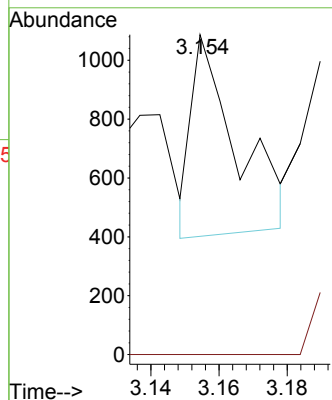
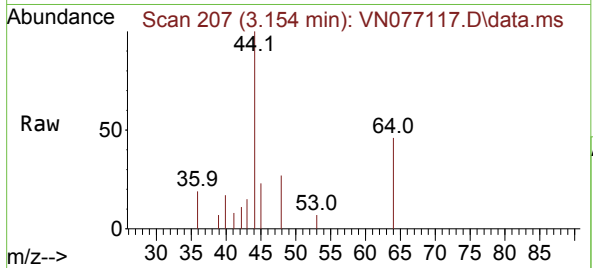




#6  
Chloroethane  
Concen: 0.878 ug/l  
RT: 3.154 min Scan# 207  
Delta R.T. 0.029 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

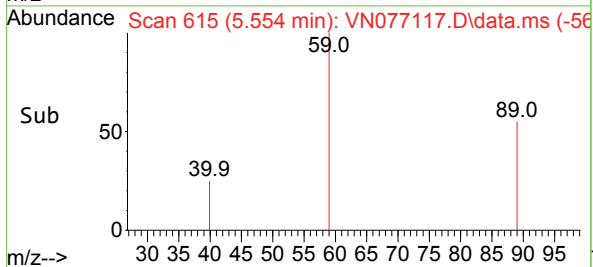
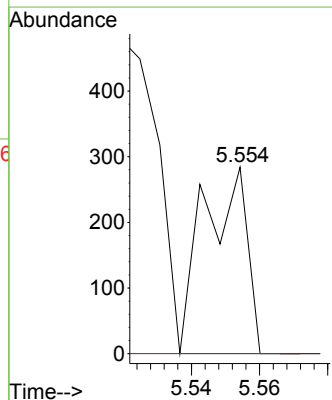
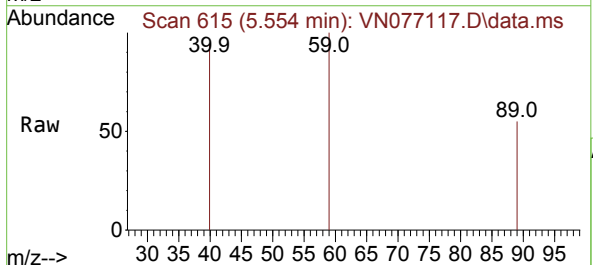
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-25.0-030823

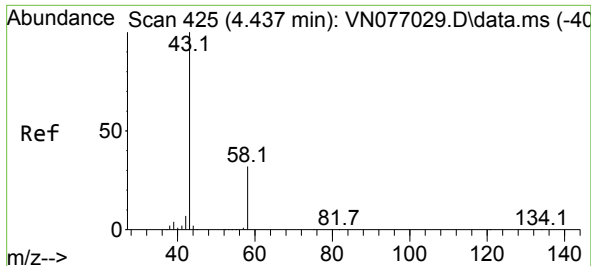
Tgt Ion: 64 Resp: 634  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.3 39.5#



#11  
Tert butyl alcohol  
Concen: 1.023 ug/l  
RT: 5.554 min Scan# 615  
Delta R.T. 0.017 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

Tgt Ion: 59 Resp: 250  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#

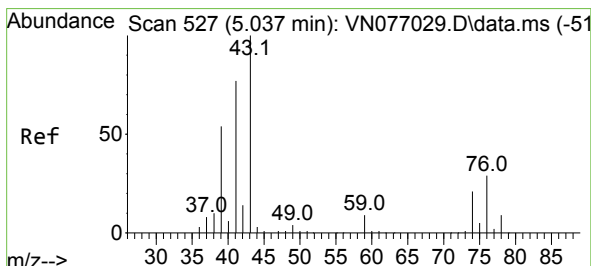
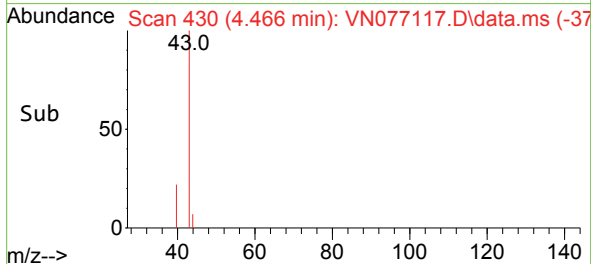
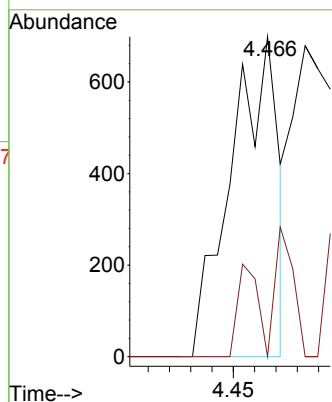
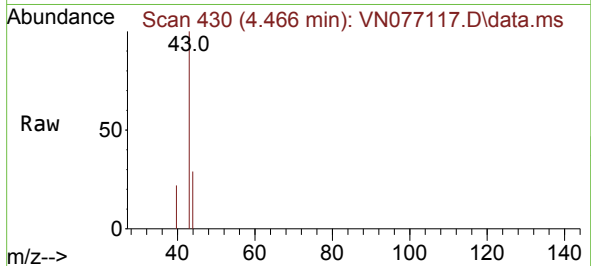




#16  
Acetone  
Concen: 1.434 ug/l  
RT: 4.466 min Scan# 41  
Delta R.T. 0.029 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

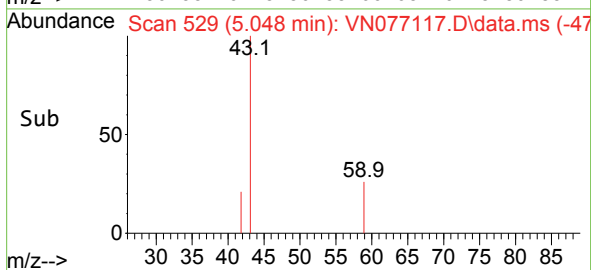
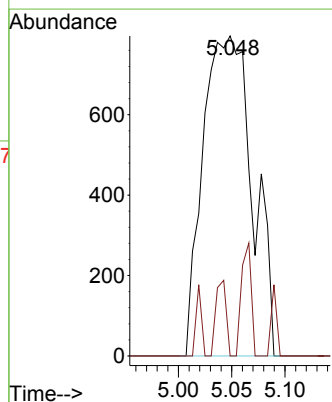
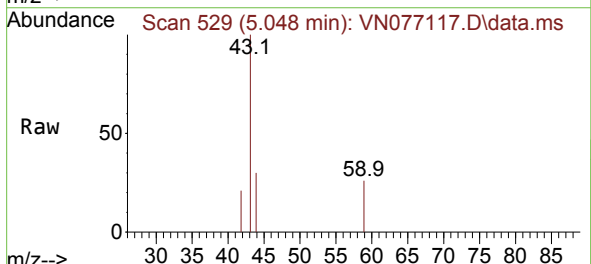
Instrument :  
MSVOA\_N  
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CB-10-25.0-030823

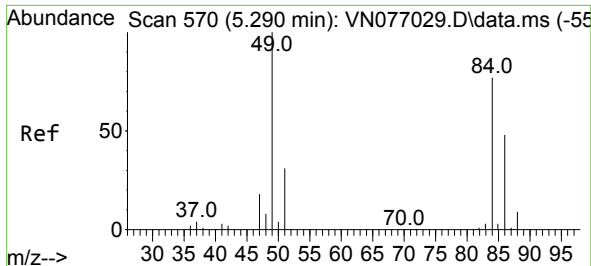
Tgt Ion: 43 Resp: 1071  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.4 38.0#



#18  
Methyl Acetate  
Concen: 0.911 ug/l  
RT: 5.048 min Scan# 529  
Delta R.T. 0.011 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

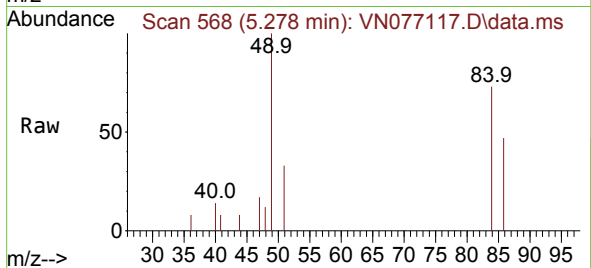
Tgt Ion: 43 Resp: 2567  
Ion Ratio Lower Upper  
43 100  
74 4.9 17.7 26.5#



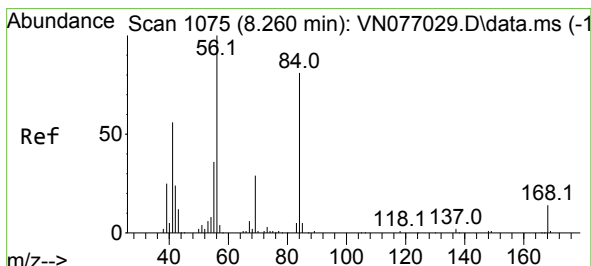
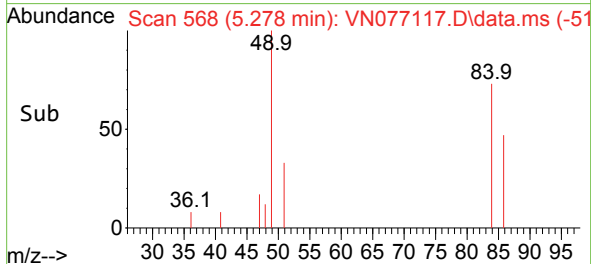
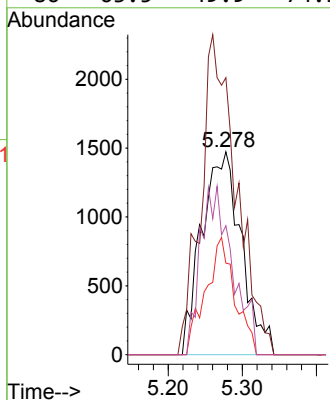


#20  
Methylene Chloride  
Concen: 3.371 ug/l  
RT: 5.278 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-25.0-030823

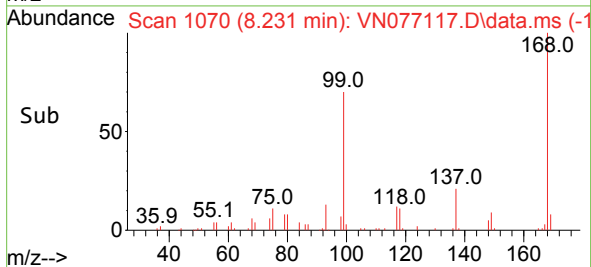
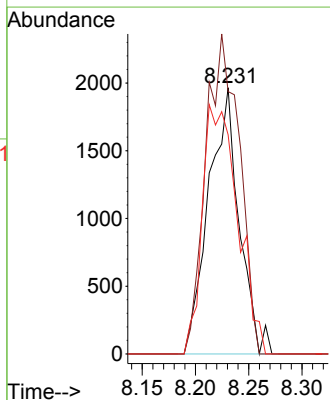
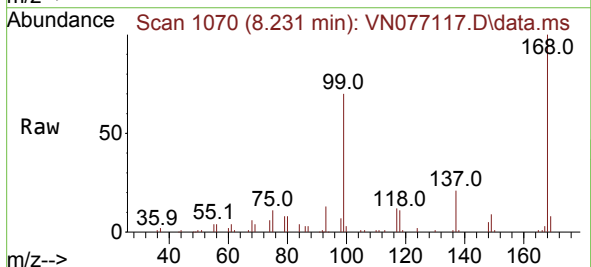


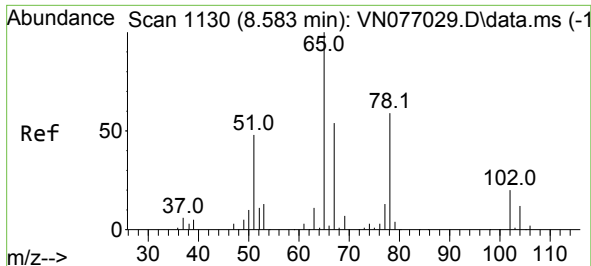
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5466  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 136.6 | 103.8 | 155.6 |
| 51       | 45.1  | 32.3  | 48.5  |
| 86       | 63.5  | 49.9  | 74.9  |



#31  
Cyclohexane  
Concen: 1.421 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.029 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 3898  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 98.6  | 22.8  | 34.2# |
| 84       | 82.3  | 64.7  | 97.1  |





#33

1,2-Dichloroethane-d4

Concen: 59.612 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN077117.D

Acq: 22 Mar 2023 19:01

Instrument :

MSVOA\_N

ClientSampleId :

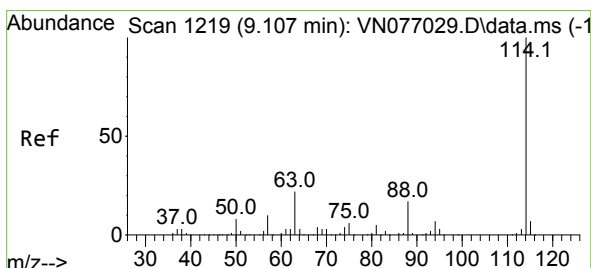
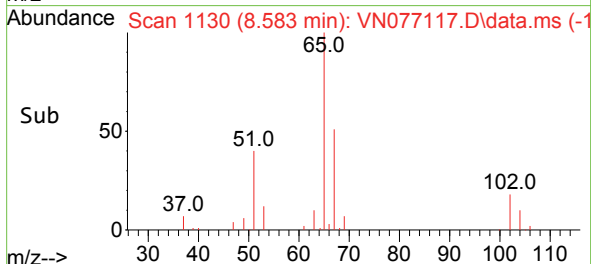
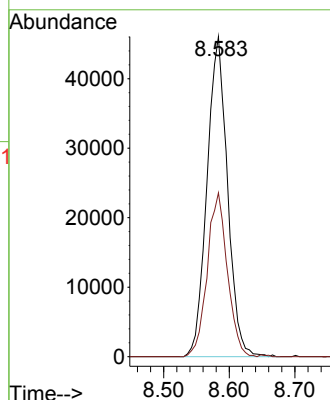
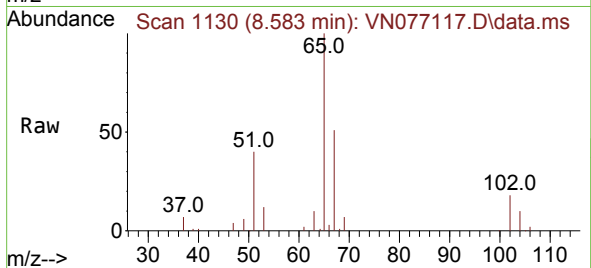
CB-10-25.0-030823

Tgt Ion: 65 Resp: 99947

Ion Ratio Lower Upper

65 100

67 50.2 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.101 min Scan# 1218

Delta R.T. -0.006 min

Lab File: VN077117.D

Acq: 22 Mar 2023 19:01

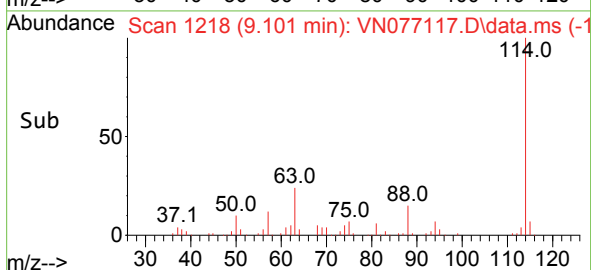
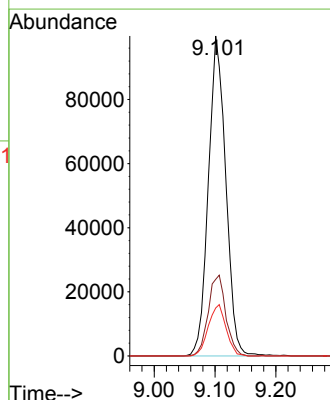
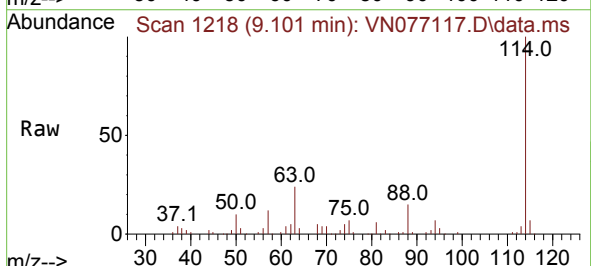
Tgt Ion: 114 Resp: 198112

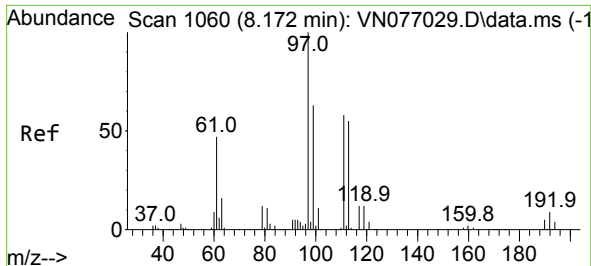
Ion Ratio Lower Upper

114 100

63 24.0 0.0 44.6

88 15.0 0.0 33.8

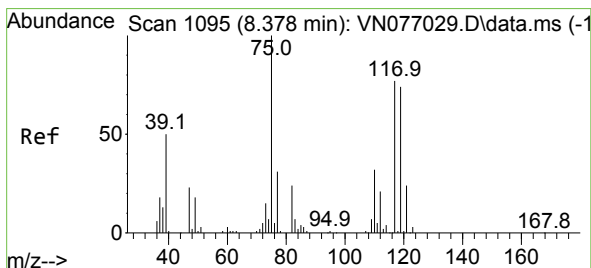
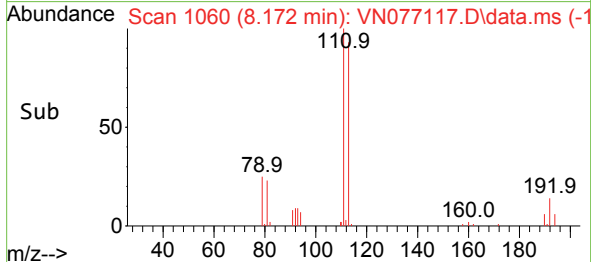
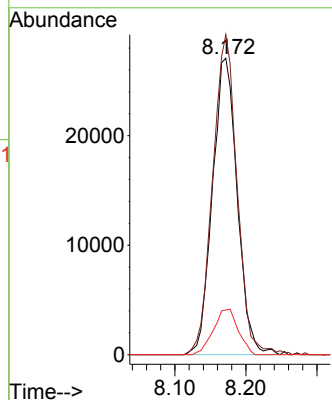
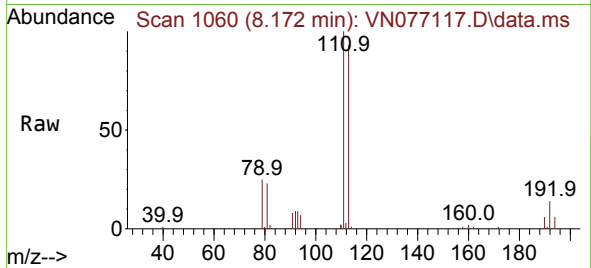




#35  
Dibromofluoromethane  
Concen: 47.189 ug/l  
RT: 8.172 min Scan# 1060  
Delta R.T. 0.000 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

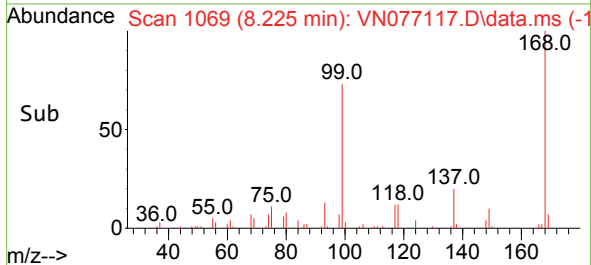
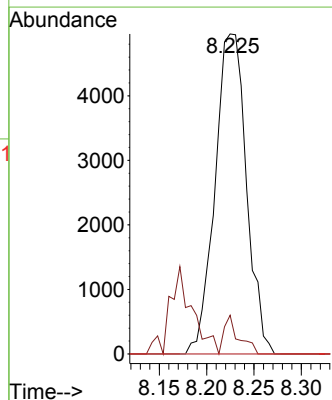
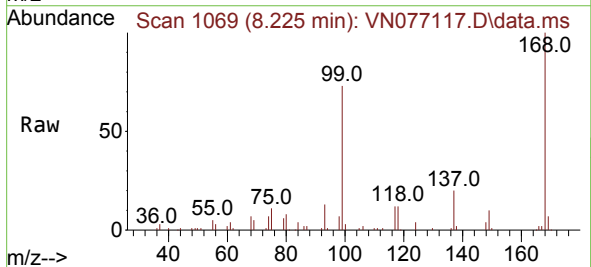
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CB-10-25.0-030823

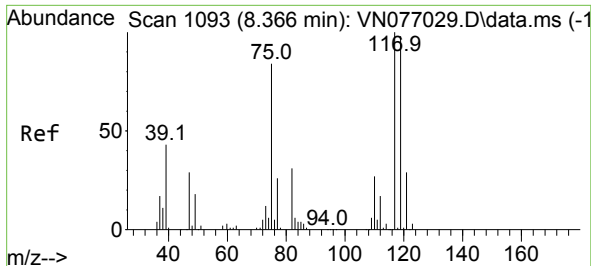
Tgt Ion:113 Resp: 65470  
Ion Ratio Lower Upper  
113 100  
111 106.7 82.2 123.2  
192 15.4 13.0 19.6



#36  
1,1-Dichloropropene  
Concen: 5.288 ug/l  
RT: 8.225 min Scan# 1069  
Delta R.T. -0.153 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

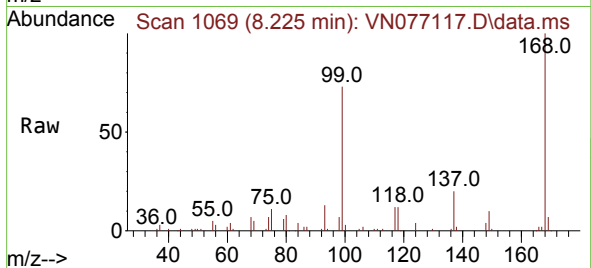
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Ion Ratio Lower Upper  
75 100  
110 5.6 15.9 47.7#  
77 0.0 24.3 36.5#



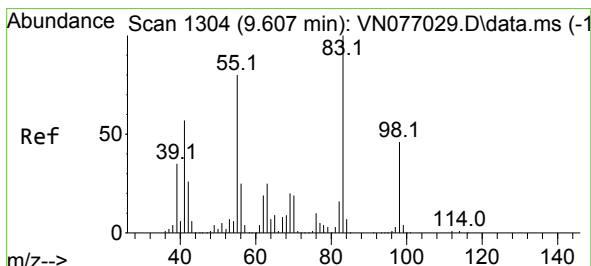
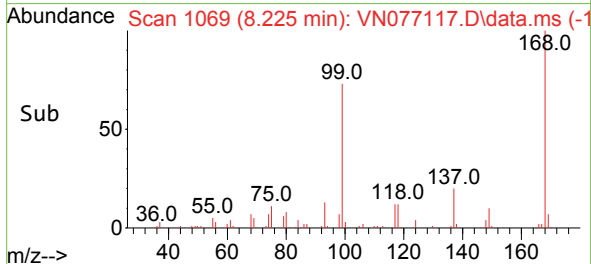
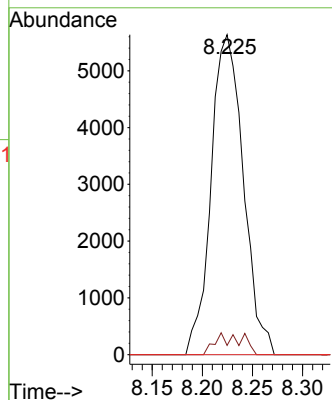


#38  
Carbon Tetrachloride  
Concen: 5.980 ug/l  
RT: 8.225 min Scan# 117  
Delta R.T. -0.141 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-25.0-030823

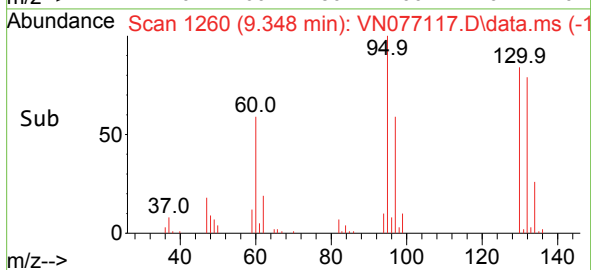
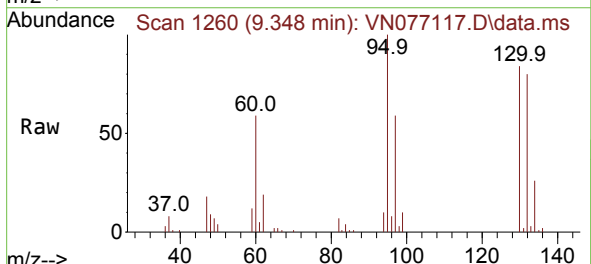
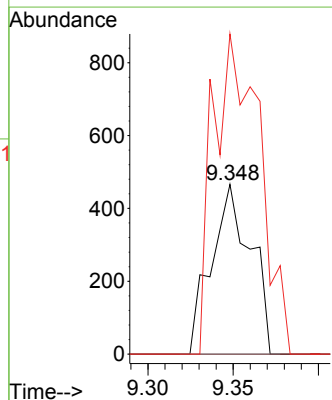


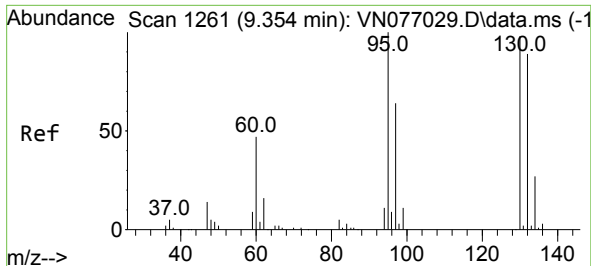
Tgt Ion:117 Resp: 12623  
Ion Ratio Lower Upper  
117 100  
119 2.9 78.2 117.2#  
121 0.0 23.2 34.8#



#39  
Methylcyclohexane  
Concen: 0.296 ug/l  
RT: 9.348 min Scan# 1260  
Delta R.T. -0.259 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

Tgt Ion: 83 Resp: 750  
Ion Ratio Lower Upper  
83 100  
55 0.0 63.8 95.8#  
98 148.1 37.1 55.7#

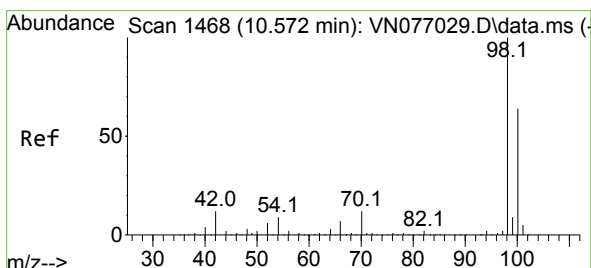
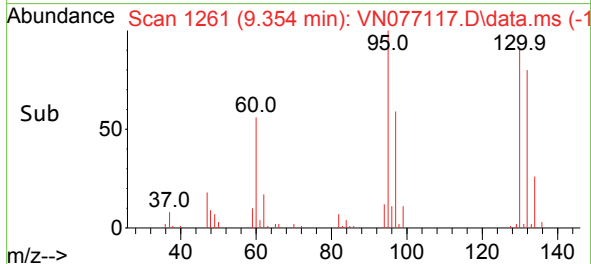
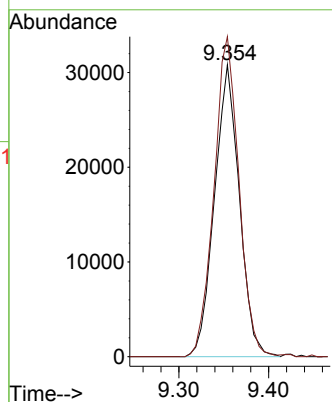
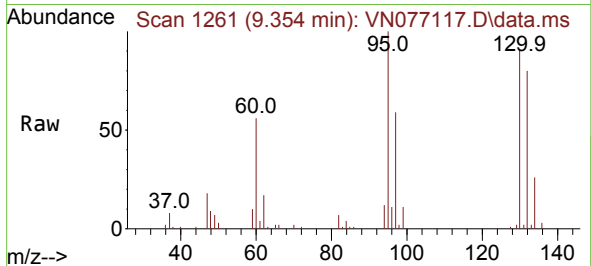




#44  
Trichloroethene  
Concen: 39.264 ug/l  
RT: 9.354 min Scan# 1261  
Delta R.T. 0.000 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

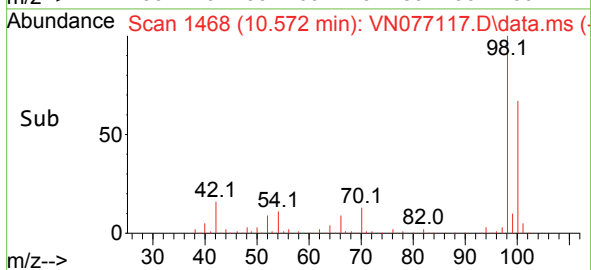
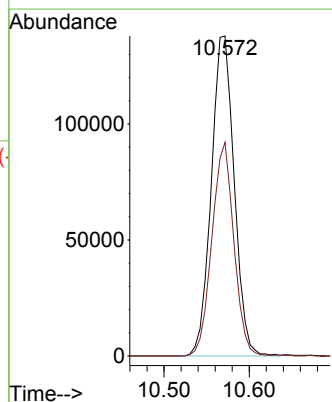
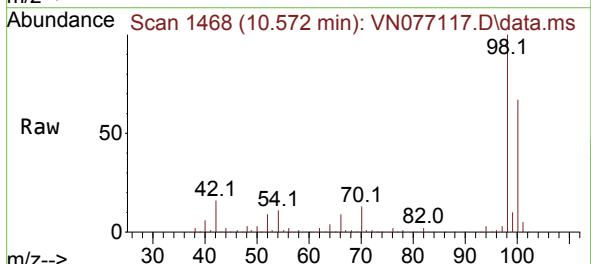
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-25.0-030823

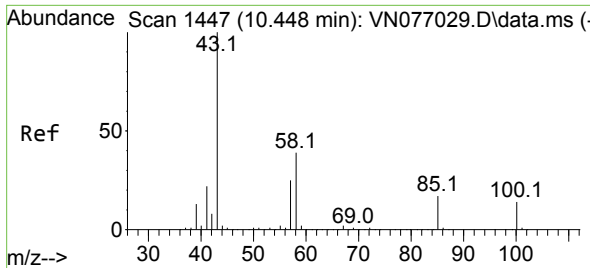
Tgt Ion:130 Resp: 59272  
Ion Ratio Lower Upper  
130 100  
95 109.7 0.0 204.4



#50  
Toluene-d8  
Concen: 51.983 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

Tgt Ion: 98 Resp: 257629  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.6 77.4

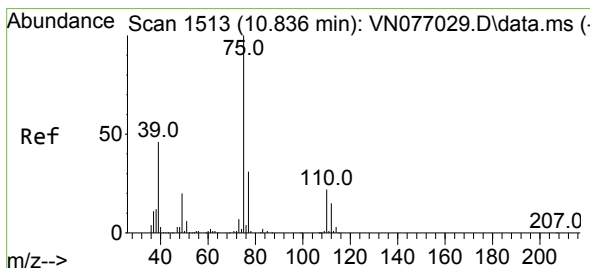
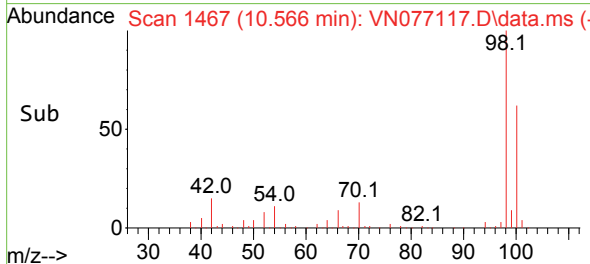
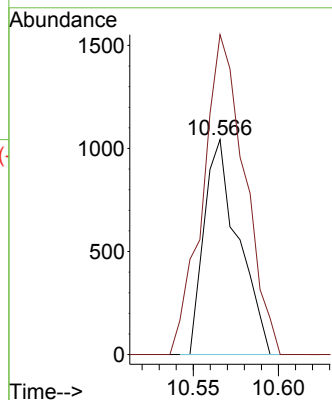
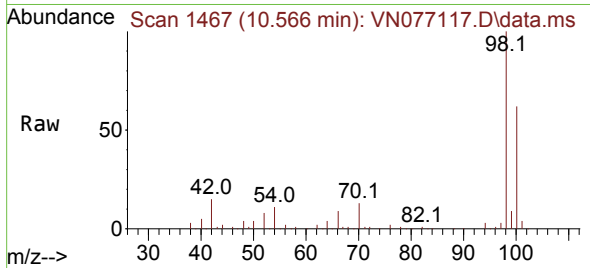




#51  
4-Methyl-2-Pentanone  
Concen: 0.646 ug/l  
RT: 10.566 min Scan# 1447  
Delta R.T. 0.118 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

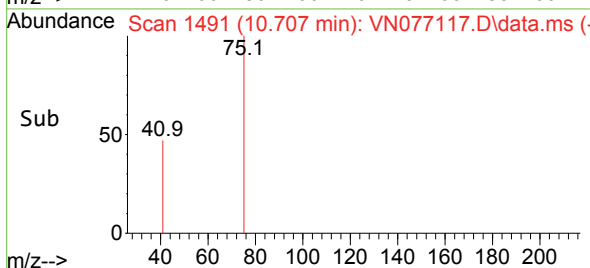
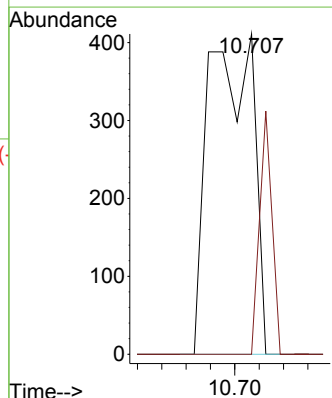
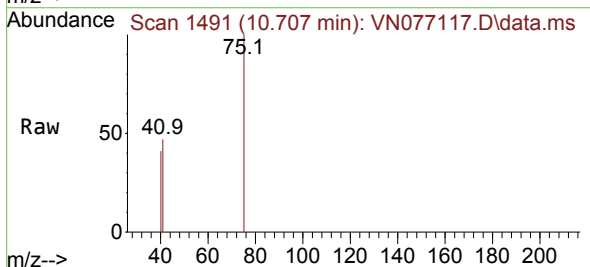
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-25.0-030823

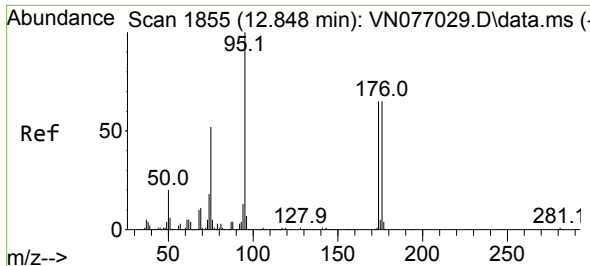
Tgt Ion: 43 Resp: 1458  
Ion Ratio Lower Upper  
43 100  
58 182.1 31.1 46.7#



#53  
t-1,3-Dichloropropene  
Concen: 0.232 ug/l  
RT: 10.707 min Scan# 1491  
Delta R.T. -0.129 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

Tgt Ion: 75 Resp: 524  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.1 37.7#

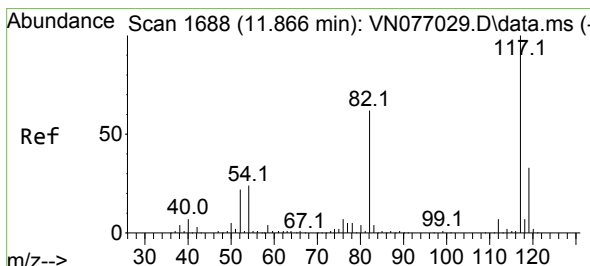
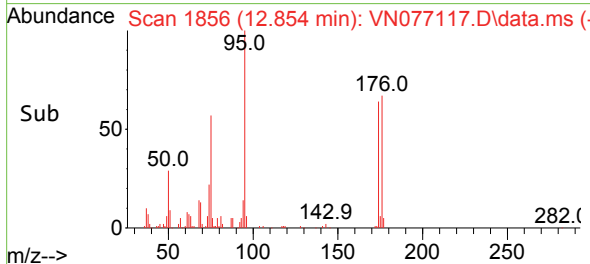
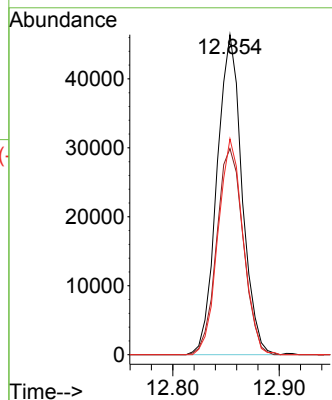
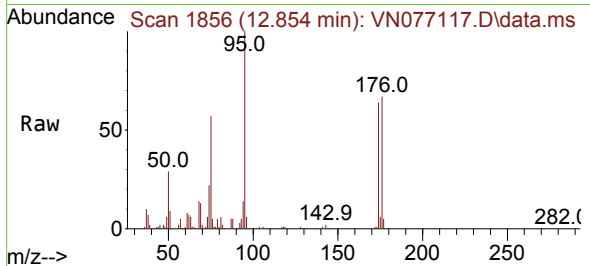




#62  
4-Bromofluorobenzene  
Concen: 43.302 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

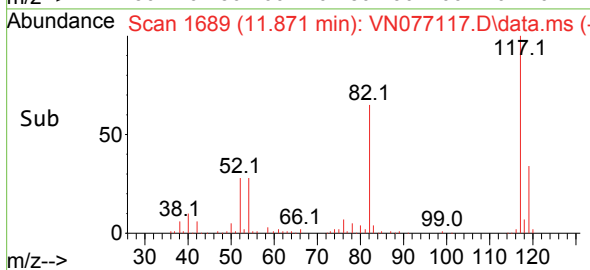
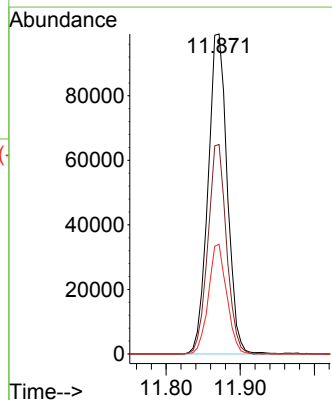
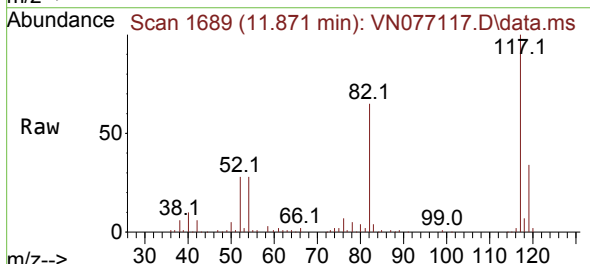
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-25.0-030823

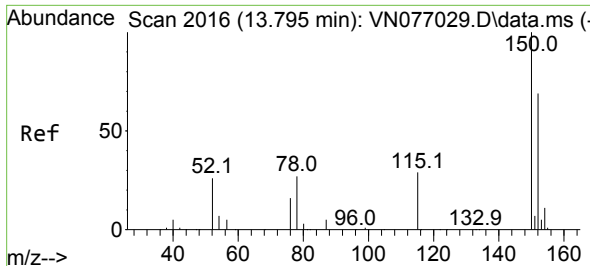
Tgt Ion: 95 Resp: 75833  
Ion Ratio Lower Upper  
95 100  
174 68.2 0.0 136.6  
176 67.3 0.0 130.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1689  
Delta R.T. 0.005 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

Tgt Ion: 117 Resp: 178730  
Ion Ratio Lower Upper  
117 100  
82 65.4 49.4 74.0  
119 34.2 26.5 39.7

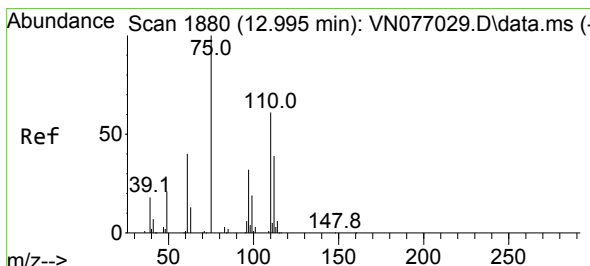
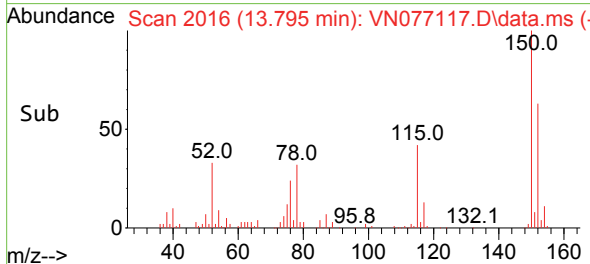
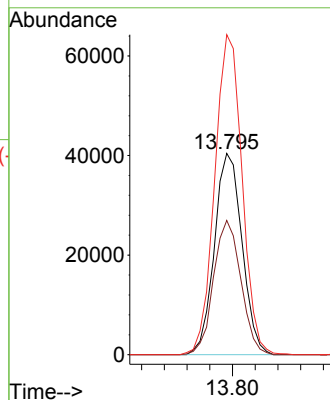
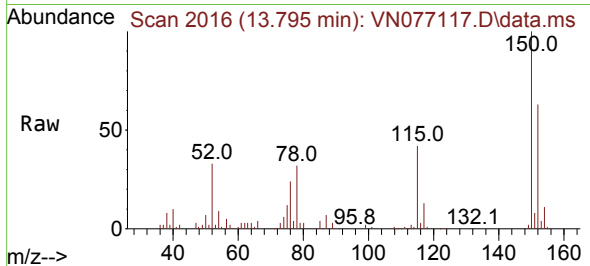




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.795 min Scan# 2016  
 Delta R.T. -0.000 min  
 Lab File: VN077117.D  
 Acq: 22 Mar 2023 19:01

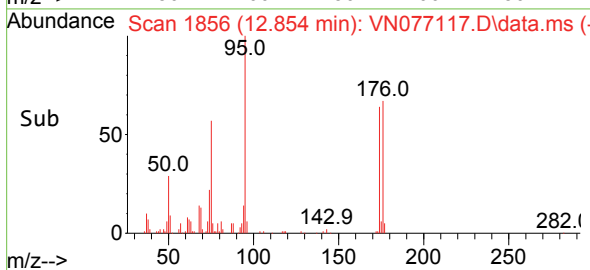
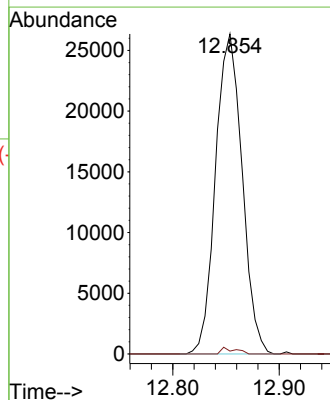
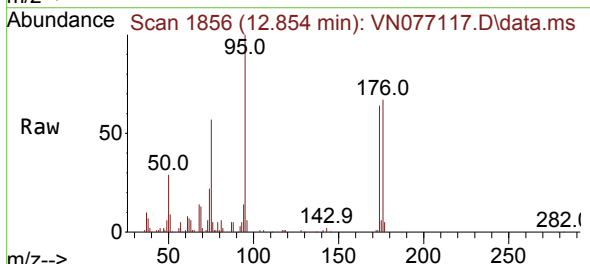
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CB-10-25.0-030823

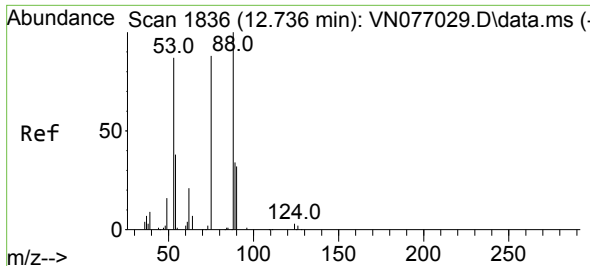
Tgt Ion:152 Resp: 68297  
 Ion Ratio Lower Upper  
 152 100  
 115 66.0 31.9 95.7  
 150 157.6 0.0 348.0



#76  
 1,2,3-Trichloropropane  
 Concen: 25.827 ug/l  
 RT: 12.854 min Scan# 1856  
 Delta R.T. -0.141 min  
 Lab File: VN077117.D  
 Acq: 22 Mar 2023 19:01

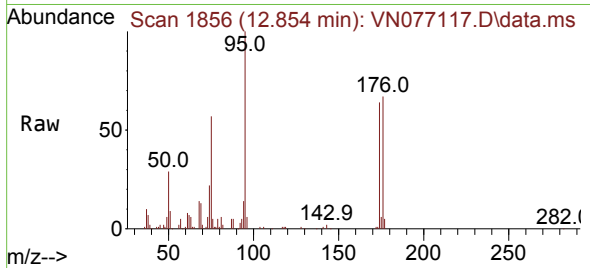
Tgt Ion: 75 Resp: 45626  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 107.3 322.0#



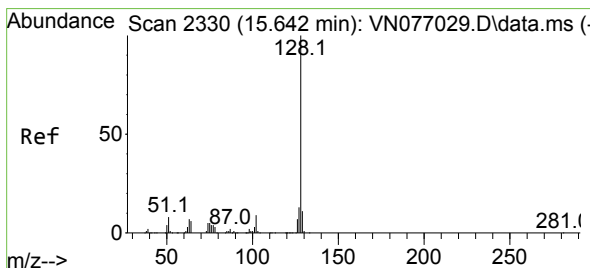
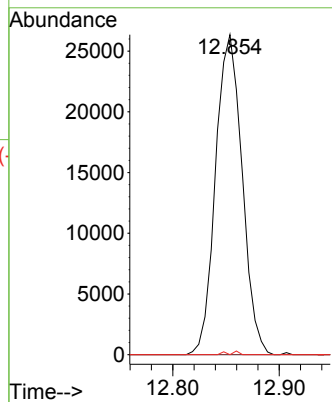
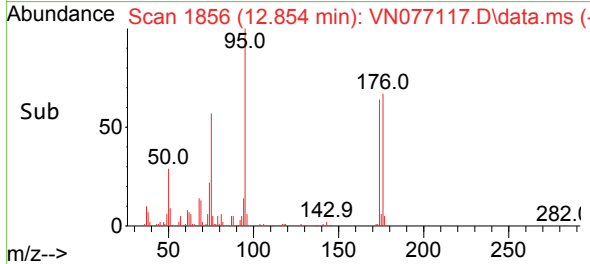


#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.091 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.118 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01

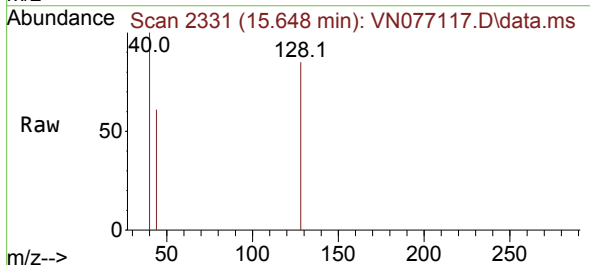
Instrument :  
MSVOA\_N  
ClientSampleId :  
CB-10-25.0-030823



Tgt Ion: 75 Resp: 45626  
Ion Ratio Lower Upper  
75 100  
53 0.0 80.8 121.2#  
89 0.2 34.2 51.4#



#95  
Naphthalene  
Concen: 1.930 ug/l  
RT: 15.648 min Scan# 2331  
Delta R.T. 0.006 min  
Lab File: VN077117.D  
Acq: 22 Mar 2023 19:01



Tgt Ion: 128 Resp: 85  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.0 15.0#  
129 0.0 8.6 13.0#

