

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121724\  
 Data File : VN085229.D  
 Acq On : 17 Dec 2024 17:09  
 Operator : JC\MD  
 Sample : P5291-11  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 18 00:28:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 2024  
 Response via : Initial Calibration

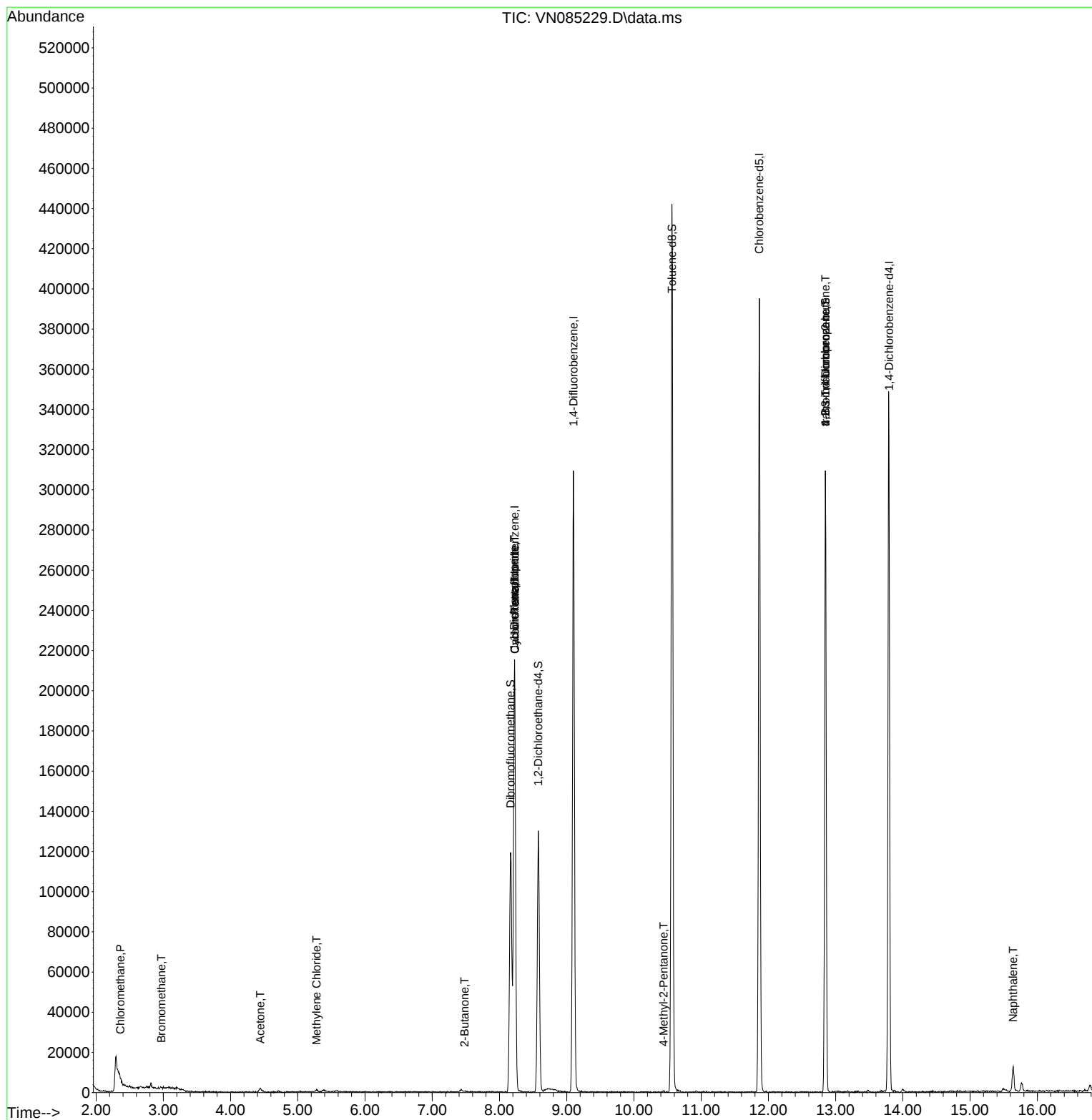
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 152762   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 262628   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 225155   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 93992    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 107339   | 49.329    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 98.660%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 86748    | 48.980    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.960%  |
| 50) Toluene-d8                | 10.565 | 98    | 306559   | 48.299    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 96.600%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 105993   | 44.655    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | =      | 89.300%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.359  | 50    | 740      | 0.369     | ug/l # | 40       |
| 5) Bromomethane               | 2.971  | 94    | 295      | 0.292     | ug/l # | 61       |
| 16) Acetone                   | 4.442  | 43    | 3552     | 5.605     | ug/l # | 86       |
| 18) Methyl Acetate            | 5.024  | 43    | 53       | Below Cal | #      | 50       |
| 20) Methylene Chloride        | 5.277  | 84    | 499      | 0.258     | ug/l # | 80       |
| 25) 2-Butanone                | 7.483  | 43    | 377      | 0.364     | ug/l # | 48       |
| 31) Cyclohexane               | 8.230  | 56    | 3704     | 1.278     | ug/l # | 42       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 12111    | 5.049     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 16840    | 6.082     | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43    | 644      | 0.311     | ug/l # | 35       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 55326    | 32.361    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 55326    | 71.439    | ug/l # | 10       |
| 95) Naphthalene               | 15.641 | 128   | 12610    | 2.416     | ug/l   | 98       |
| -----                         |        |       |          |           |        |          |

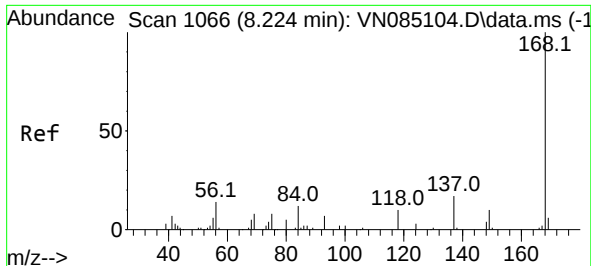
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :

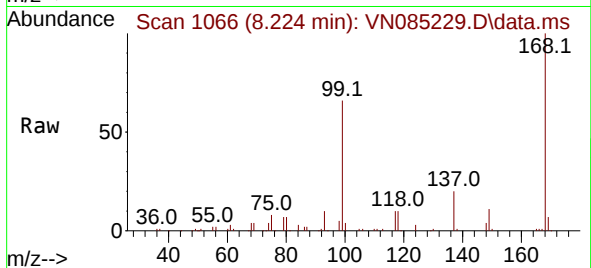
Quant Time: Dec 18 00:28:57 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 23 02:54:10 2024  
Response via : Initial Calibration



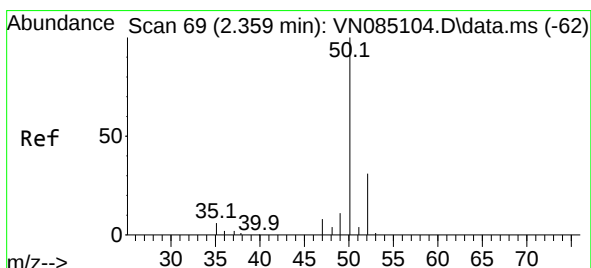
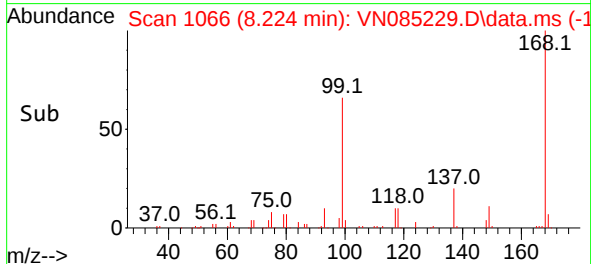
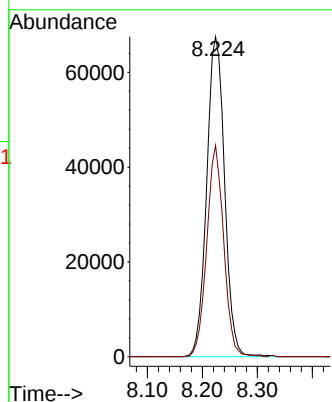


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. 0.006 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Instrument :  
MSVOA\_N  
ClientSampleId :

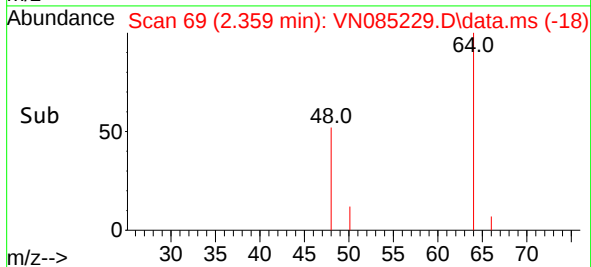
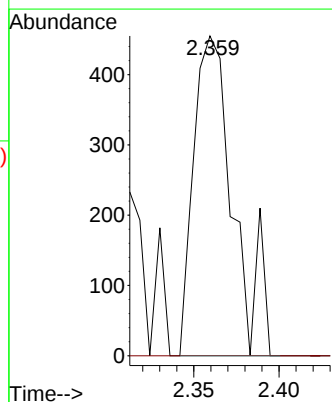
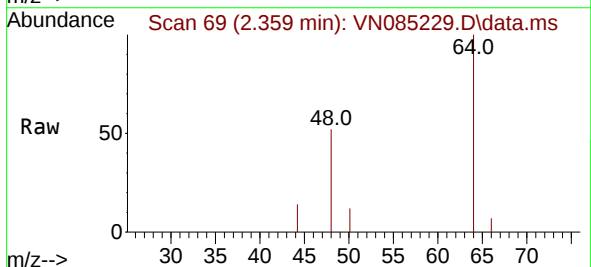


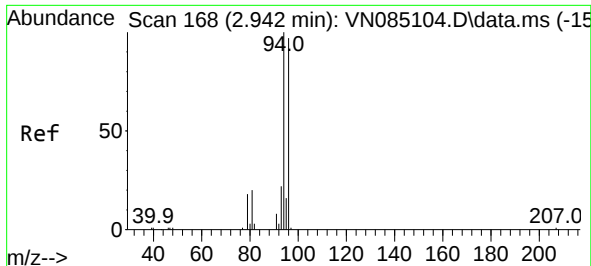
Tgt Ion:168 Resp: 152762  
Ion Ratio Lower Upper  
168 100  
99 66.0 51.2 76.8



#3  
Chloromethane  
Concen: 0.369 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. -0.000 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Tgt Ion: 50 Resp: 740  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.8 41.8#

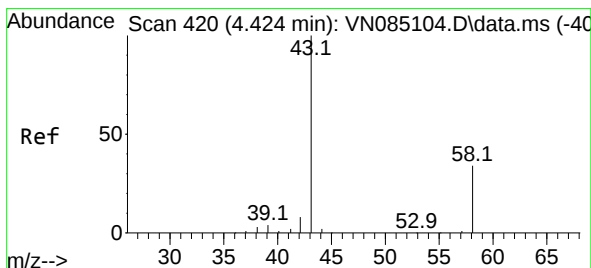
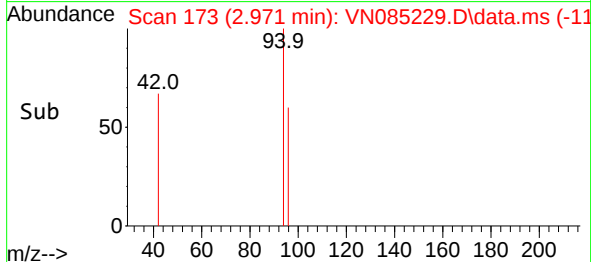
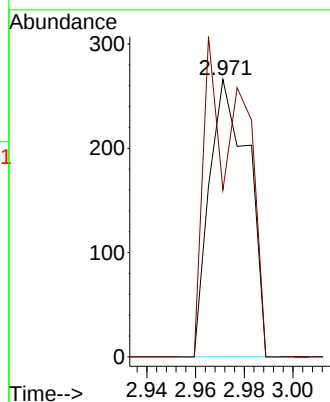
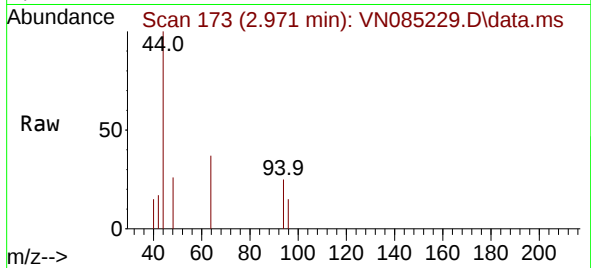




#5  
Bromomethane  
Concen: 0.292 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.071 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

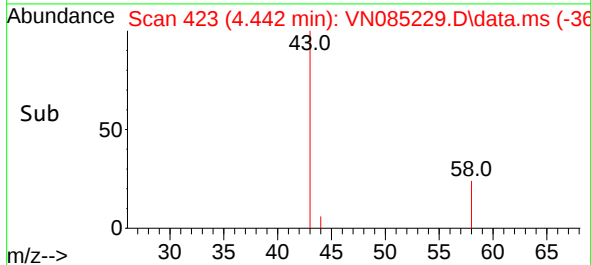
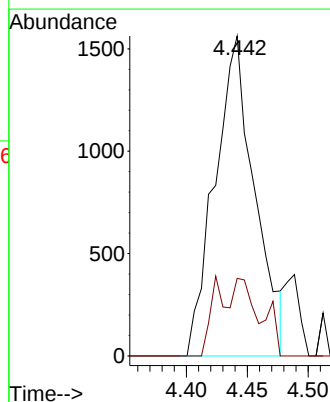
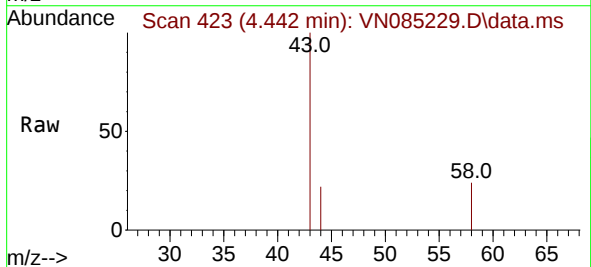
Instrument :  
MSVOA\_N  
ClientSampleId :

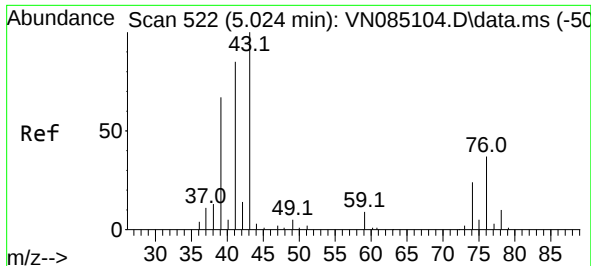
Tgt Ion: 94 Resp: 295  
Ion Ratio Lower Upper  
94 100  
96 60.2 78.7 118.1#



#16  
Acetone  
Concen: 5.605 ug/l  
RT: 4.442 min Scan# 423  
Delta R.T. 0.018 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Tgt Ion: 43 Resp: 3552  
Ion Ratio Lower Upper  
43 100  
58 24.2 25.4 38.2#





#18

Methyl Acetate

Concen: Below Cal

RT: 5.024 min Scan# 51

Delta R.T. 0.006 min

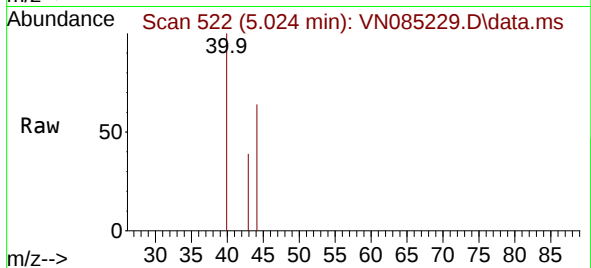
Lab File: VN085229.D

Acq: 17 Dec 2024 17:09

Instrument :

MSVOA\_N

ClientSampleId :

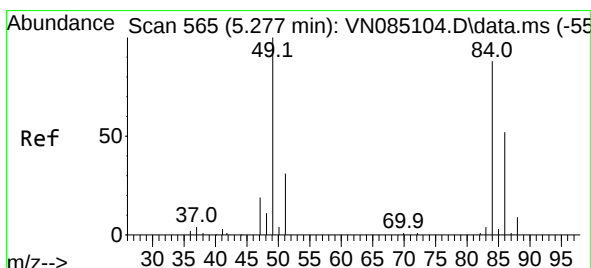
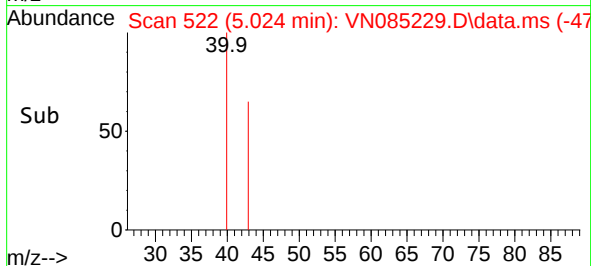
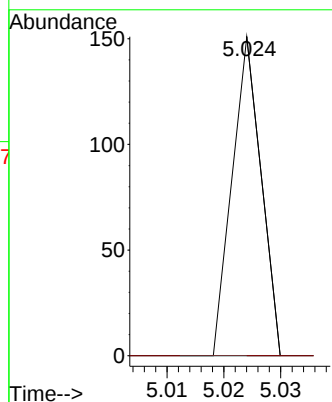


Tgt Ion: 43 Resp: 53

Ion Ratio Lower Upper

43 100

74 0.0 20.1 30.1#



#20

Methylene Chloride

Concen: 0.258 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.012 min

Lab File: VN085229.D

Acq: 17 Dec 2024 17:09

Tgt Ion: 84 Resp: 499

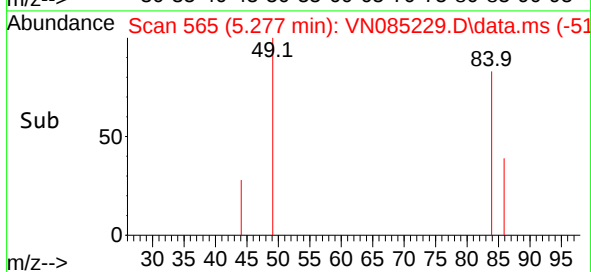
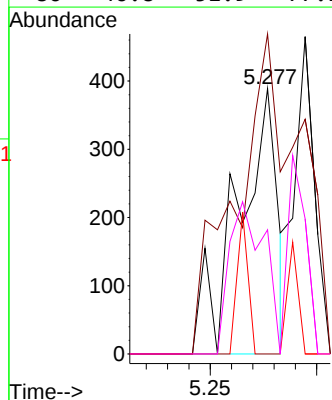
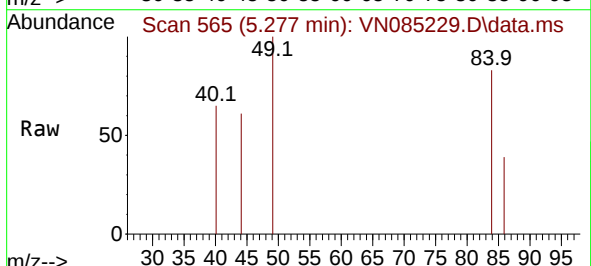
Ion Ratio Lower Upper

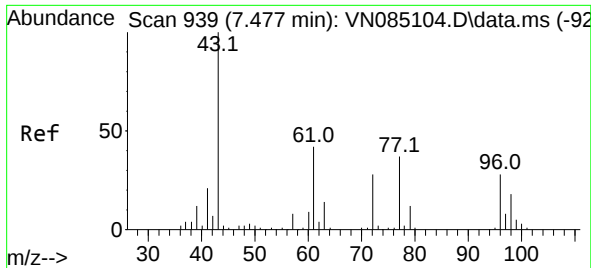
84 100

49 120.6 92.7 139.1

51 0.0 29.4 44.2#

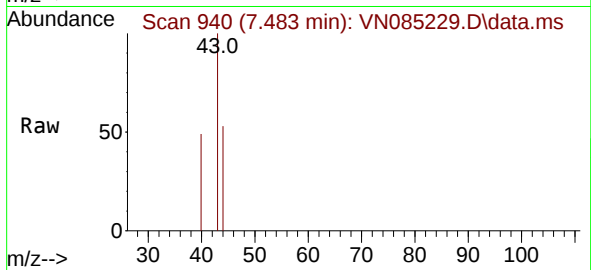
86 46.8 51.9 77.9#



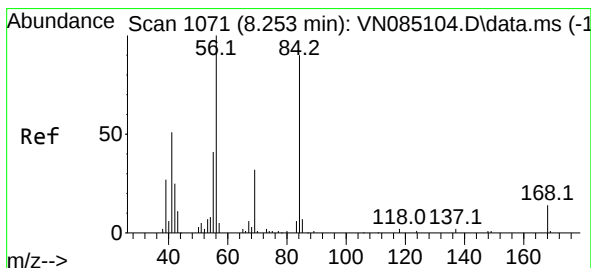
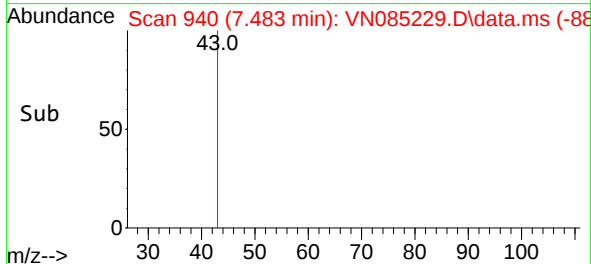
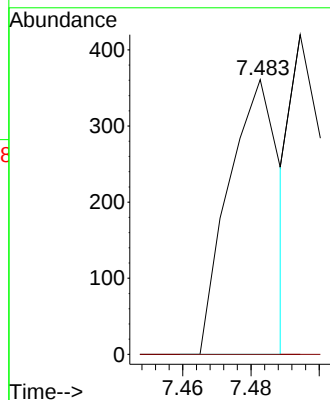


#25  
2-Butanone  
Concen: 0.364 ug/l  
RT: 7.483 min Scan# 94  
Delta R.T. -0.000 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Instrument :  
MSVOA\_N  
ClientSampleId :

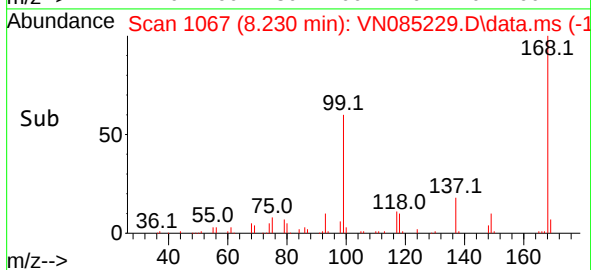
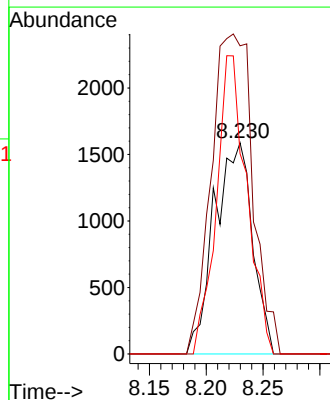
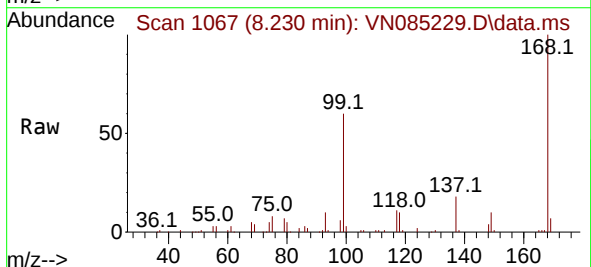


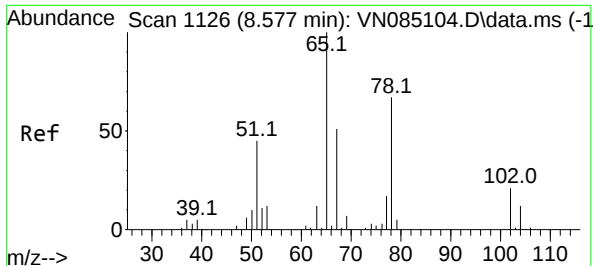
Tgt Ion: 43 Resp: 377  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.4 32.0#



#31  
Cyclohexane  
Concen: 1.278 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.024 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Tgt Ion: 56 Resp: 3704  
Ion Ratio Lower Upper  
56 100  
69 145.9 24.6 36.8#  
84 94.8 71.4 107.2





#33

1,2-Dichloroethane-d4

Concen: 49.329 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085229.D

Acq: 17 Dec 2024 17:09

Instrument :

MSVOA\_N

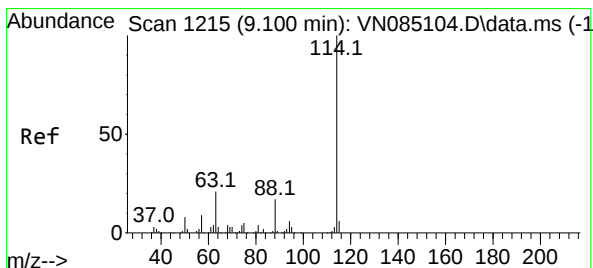
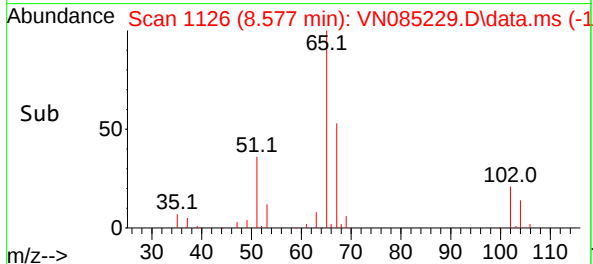
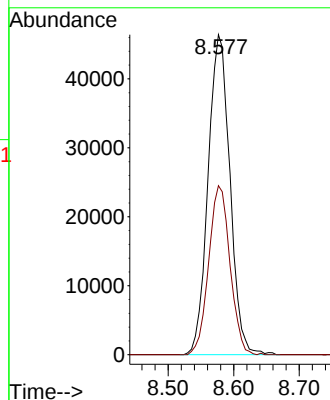
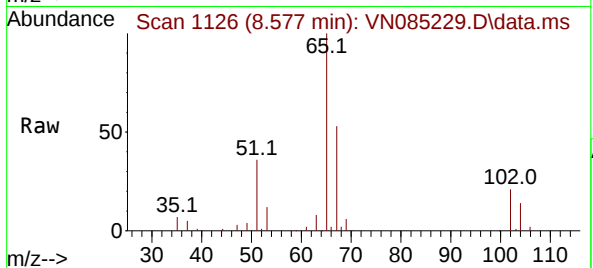
ClientSampleId :

Tgt Ion: 65 Resp: 107339

Ion Ratio Lower Upper

65 100

67 51.5 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085229.D

Acq: 17 Dec 2024 17:09

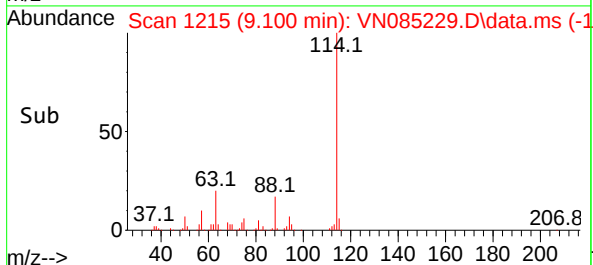
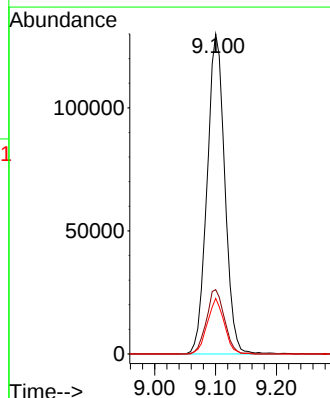
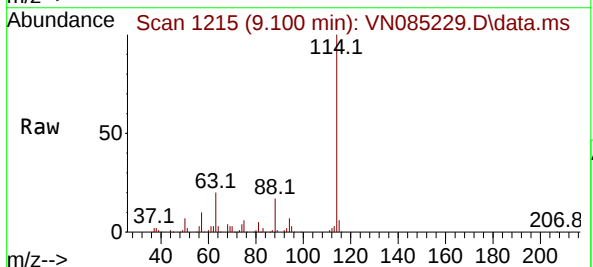
Tgt Ion: 114 Resp: 262628

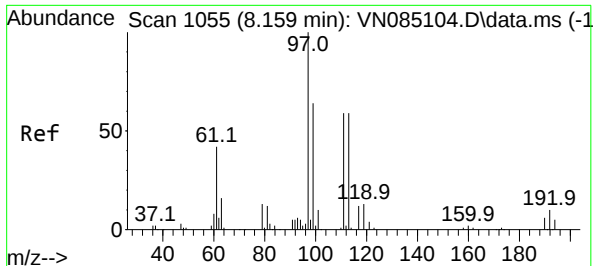
Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.0

88 17.4 0.0 34.8





#35

Dibromofluoromethane

Concen: 48.980 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

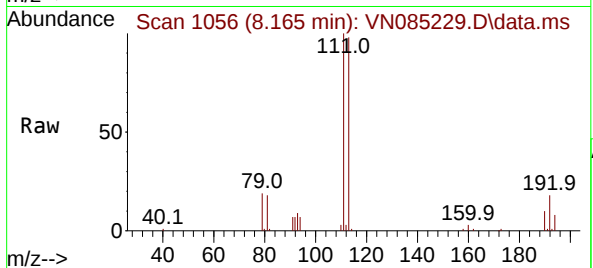
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Instrument :

MSVOA\_N

ClientSampleId :



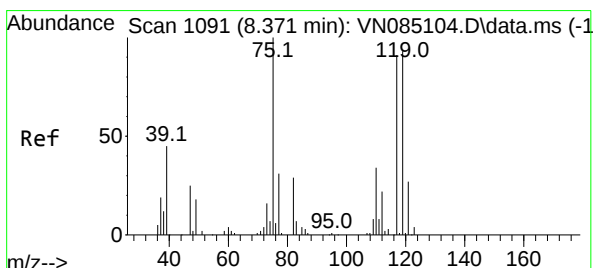
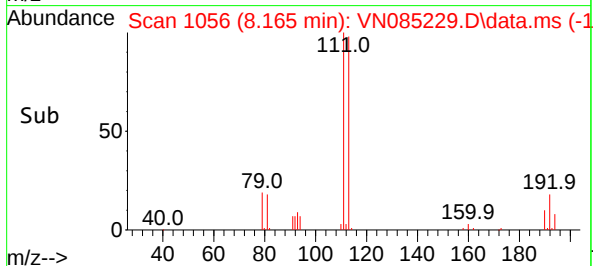
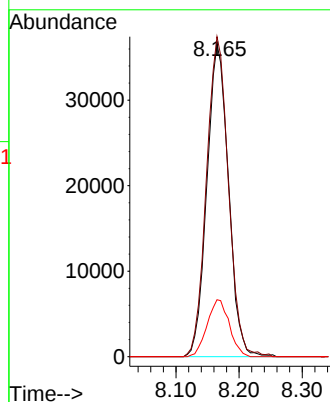
Tgt Ion:113 Resp: 86748

Ion Ratio Lower Upper

113 100

111 104.1 82.0 123.0

192 18.7 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.049 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085229.D

Acq: 17 Dec 2024 17:09

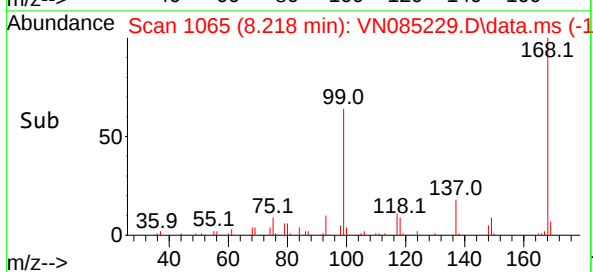
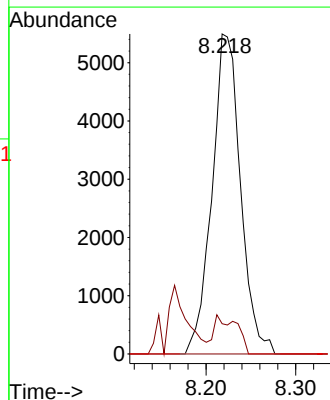
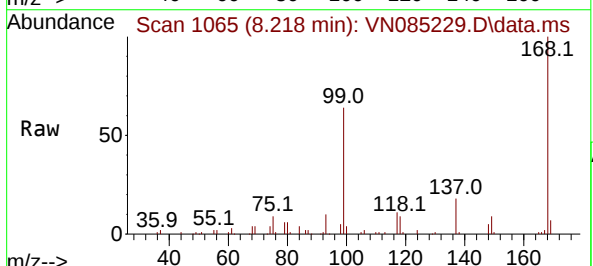
Tgt Ion: 75 Resp: 12111

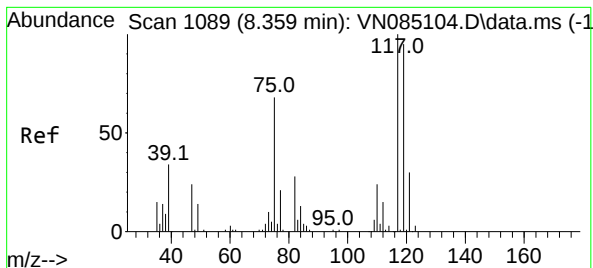
Ion Ratio Lower Upper

75 100

110 9.7 17.2 51.6#

77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.082 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.124 min

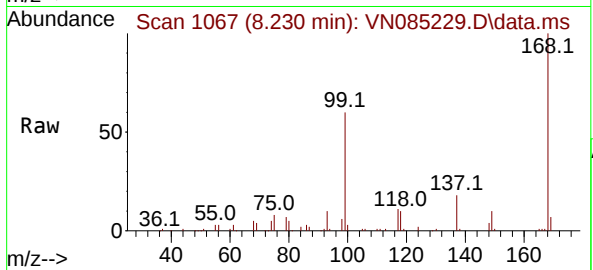
Lab File: VN085229.D

Acq: 17 Dec 2024 17:09

Instrument :

MSVOA\_N

ClientSampleId :



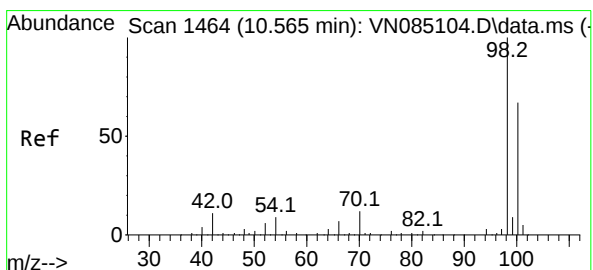
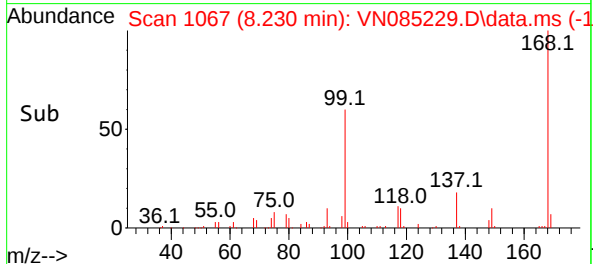
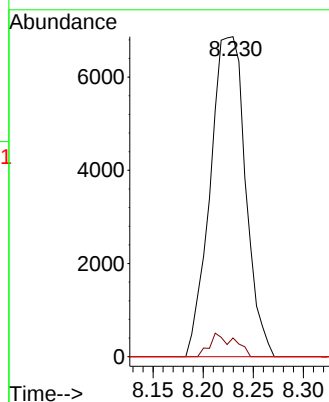
Tgt Ion:117 Resp: 16840

Ion Ratio Lower Upper

117 100

119 5.9 78.6 117.8#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 48.299 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085229.D

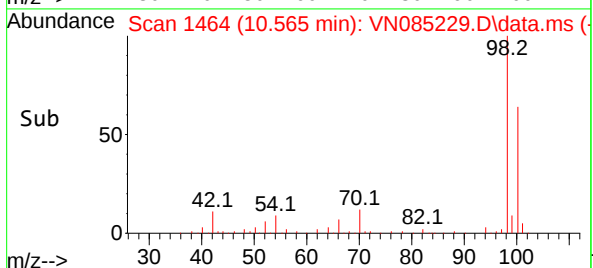
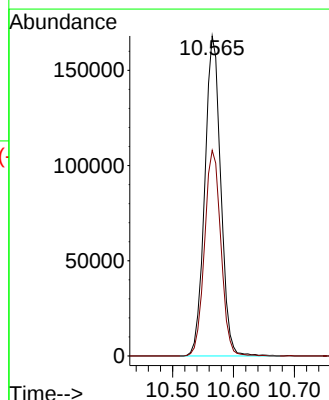
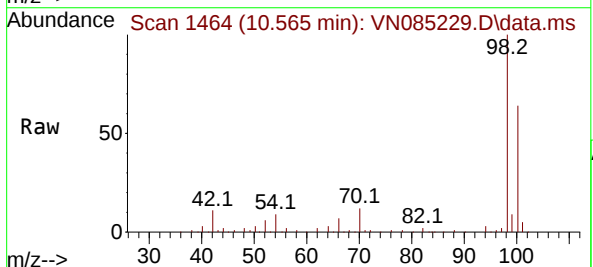
Acq: 17 Dec 2024 17:09

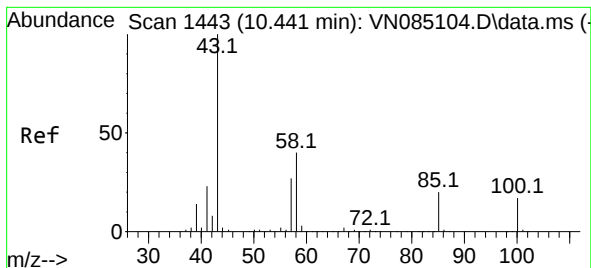
Tgt Ion: 98 Resp: 306559

Ion Ratio Lower Upper

98 100

100 65.7 52.5 78.7

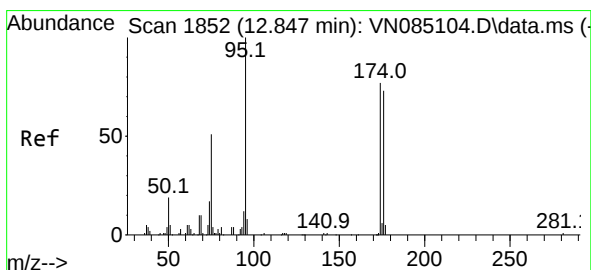
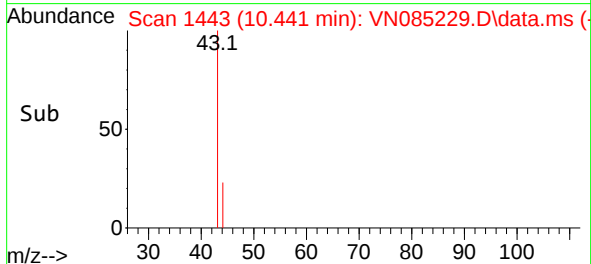
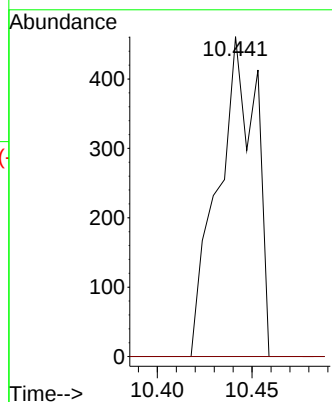
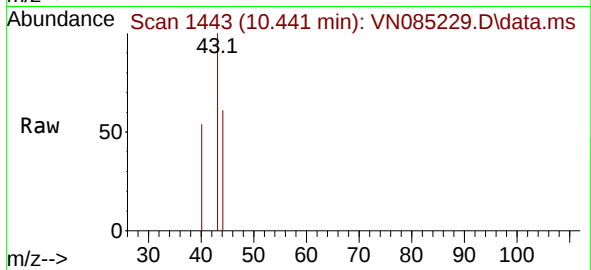




#51  
4-Methyl-2-Pentanone  
Concen: 0.311 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

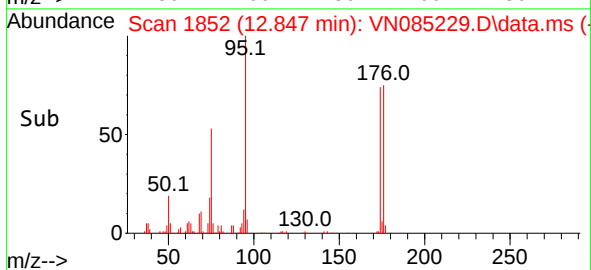
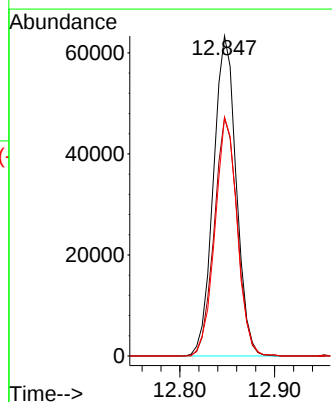
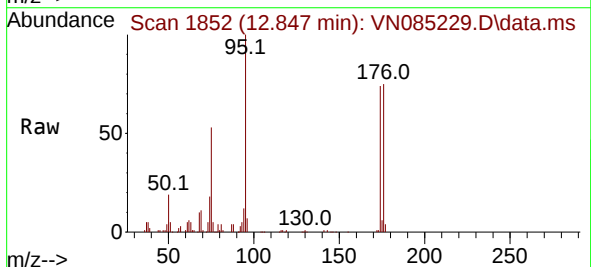
Instrument :  
MSVOA\_N  
ClientSampleId :

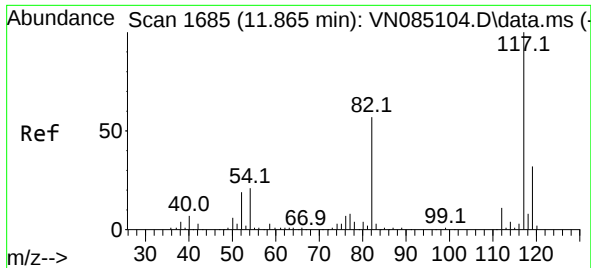
Tgt Ion: 43 Resp: 644  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.1 48.1#



#62  
4-Bromofluorobenzene  
Concen: 44.655 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Tgt Ion: 95 Resp: 105993  
Ion Ratio Lower Upper  
95 100  
174 75.1 0.0 146.6  
176 72.6 0.0 141.8

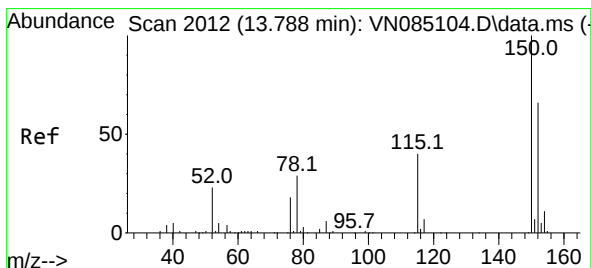
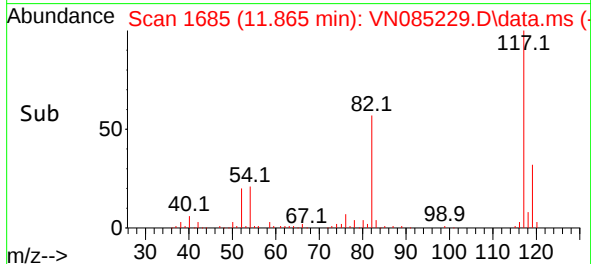
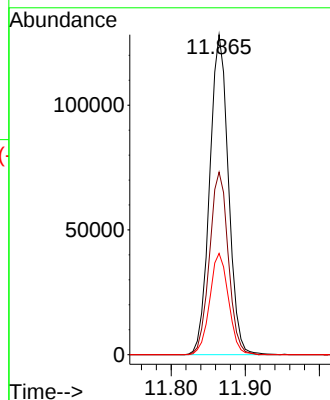
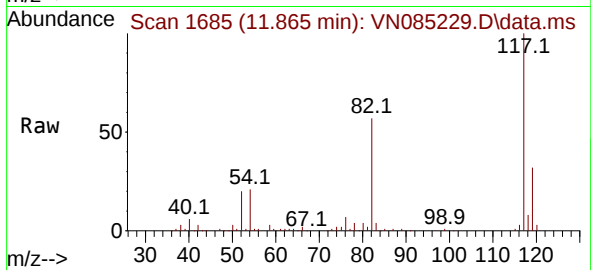




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

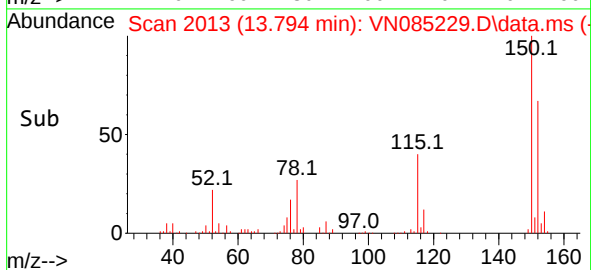
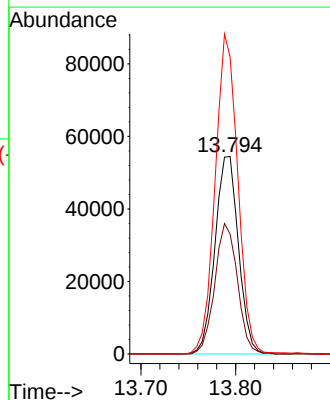
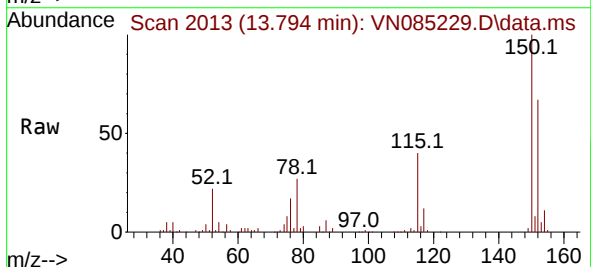
Instrument :  
MSVOA\_N  
ClientSampleId :

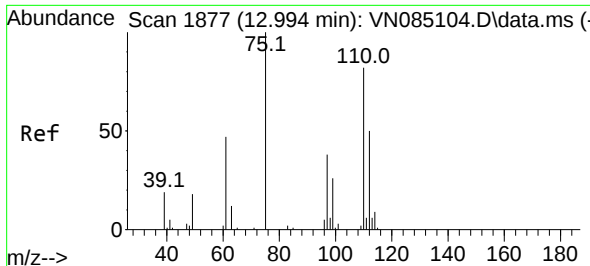
Tgt Ion:117 Resp: 225155  
Ion Ratio Lower Upper  
117 100  
82 57.1 46.0 69.0  
119 31.6 25.6 38.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.006 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Tgt Ion:152 Resp: 93992  
Ion Ratio Lower Upper  
152 100  
115 63.6 31.7 95.1  
150 156.2 0.0 351.4

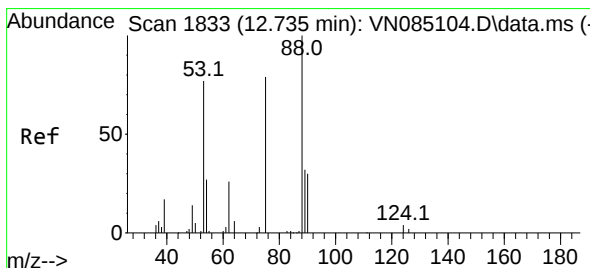
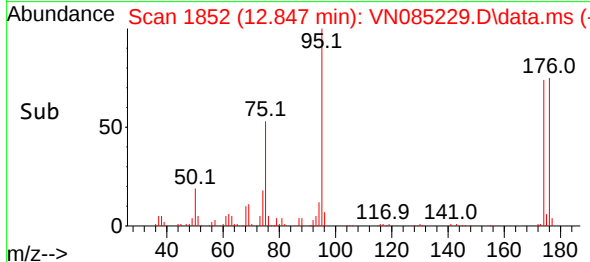
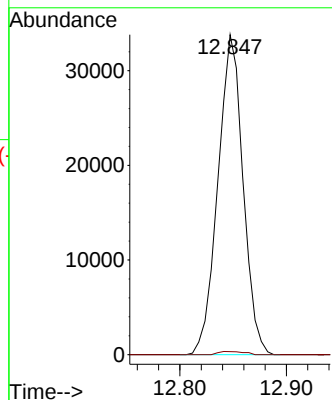
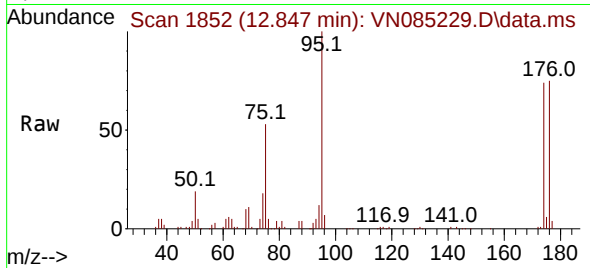




#76  
1,2,3-Trichloropropane  
Concen: 32.361 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

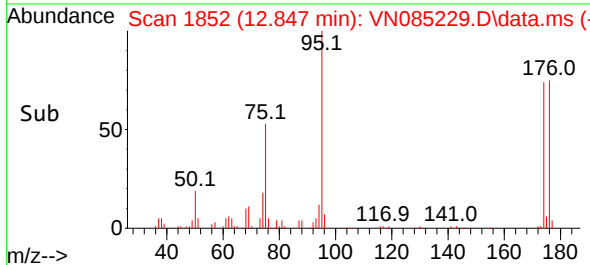
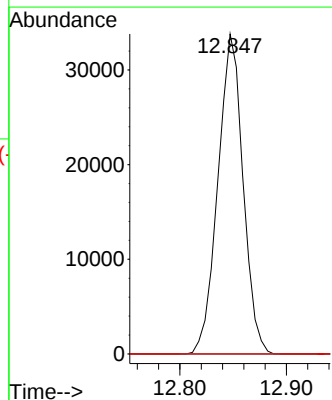
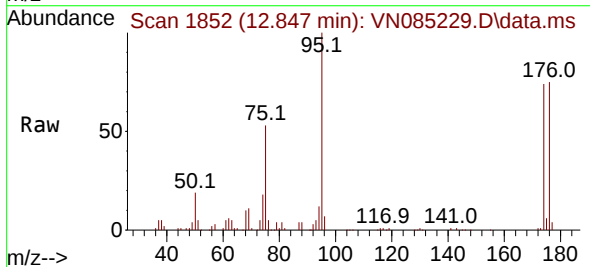
Instrument :  
MSVOA\_N  
ClientSampleId :

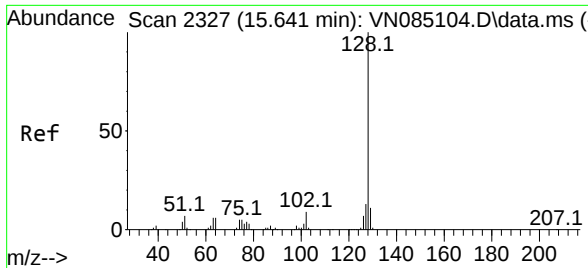
Tgt Ion: 75 Resp: 55326  
Ion Ratio Lower Upper  
75 100  
77 1.0 109.1 327.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.439 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

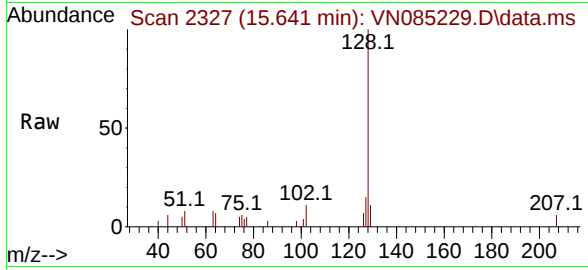
Tgt Ion: 75 Resp: 55326  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.2 117.4#  
89 0.0 37.9 56.9#





#95  
Naphthalene  
Concen: 2.416 ug/l  
RT: 15.641 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN085229.D  
Acq: 17 Dec 2024 17:09

Instrument :  
MSVOA\_N  
ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 12610       |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 11.6  | 10.6 16.0   |
| 129         | 10.6  | 8.6 12.8    |

