

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091224\  
 Data File : VN083861.D  
 Acq On : 13 Sep 2024 08:12  
 Operator : JC\MD  
 Sample : P3957-16  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE104D3-20240911

Quant Time: Sep 13 08:53:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

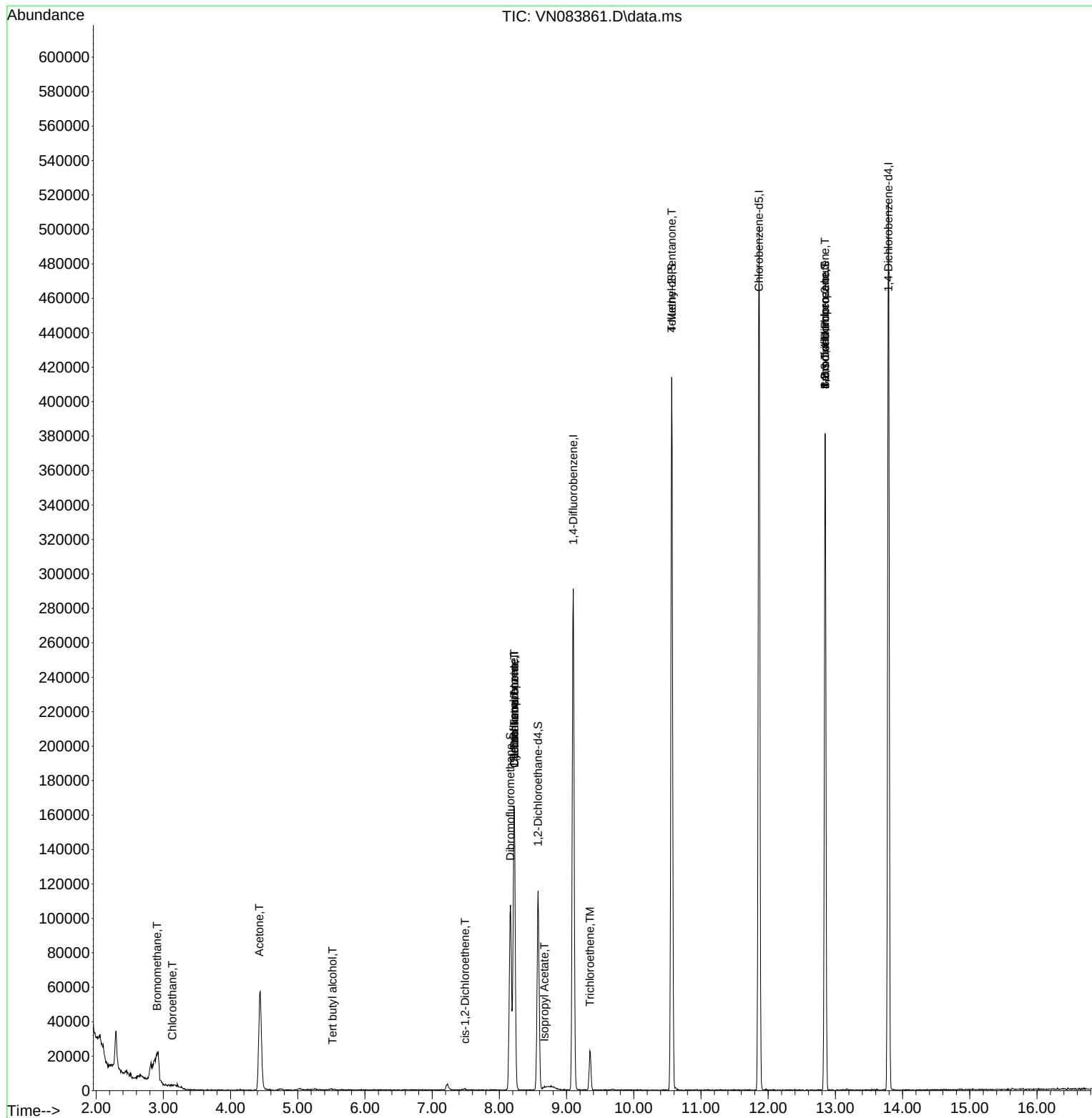
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.218          | 168  | 110889              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 238469              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 270349              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 130831              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 93623               | 55.993    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 111.980% |           |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 75497               | 49.453    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 98.900%  |           |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 272297              | 51.594    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 103.180% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 127265              | 58.447    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 116.900% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.354          | 50   | 942                 | Below Cal | #      | 41       |
| 5) Bromomethane               | 2.906          | 94   | 204                 | 0.252     | ug/l # | 2        |
| 6) Chloroethane               | 3.136          | 64   | 239                 | 0.241     | ug/l # | 45       |
| 11) Tert butyl alcohol        | 5.518          | 59   | 465                 | 2.077     | ug/l # | 71       |
| 16) Acetone                   | 4.430          | 43   | 2210                | 3.297     | ug/l # | 45       |
| 18) Methyl Acetate            | 5.042          | 43   | 1673                | Below Cal | #      | 60       |
| 27) cis-1,2-Dichloroethene    | 7.488          | 96   | 447                 | 0.293     | ug/l   | 82       |
| 31) Cyclohexane               | 8.224          | 56   | 2873                | 1.189     | ug/l # | 19       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 10705               | 4.659     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 13133               | 5.038     | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.671          | 43   | 1403                | 0.371     | ug/l # | 57       |
| 44) Trichloroethene           | 9.347          | 130  | 7518                | 4.694     | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 1560                | 0.758     | ug/l # | 1        |
| 71) Bromoform                 | 12.847         | 173  | 711                 | 0.507     | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 72277               | 27.379    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 72277               | 71.707    | ug/l # | 9        |
| -----                         |                |      |                     |           |        |          |

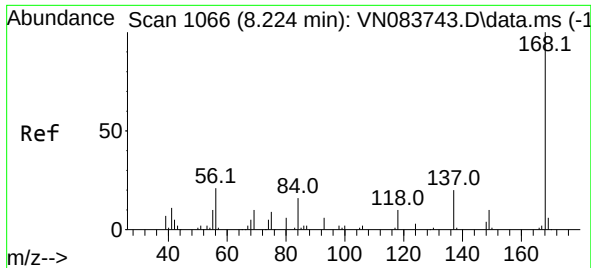
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 13 08:53:08 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration

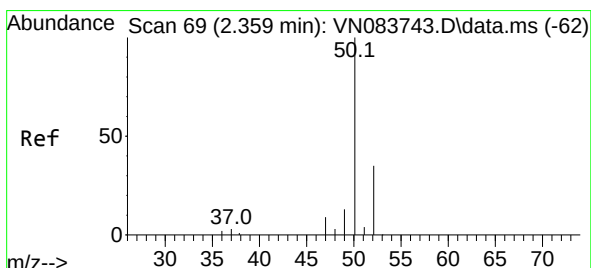
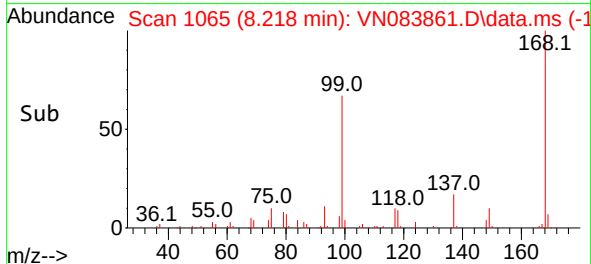
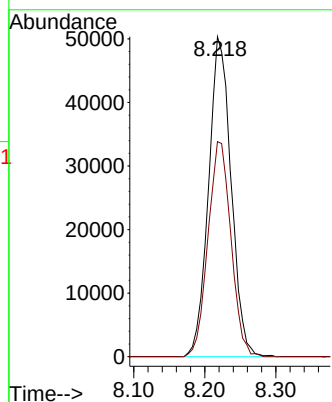
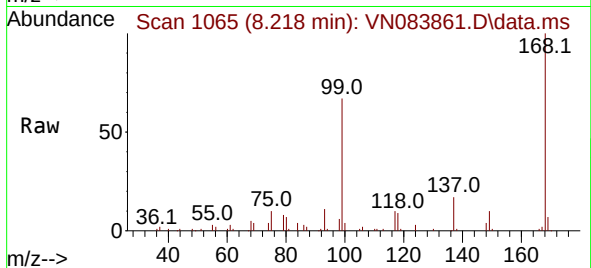




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

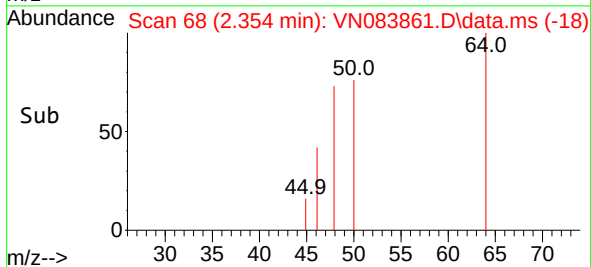
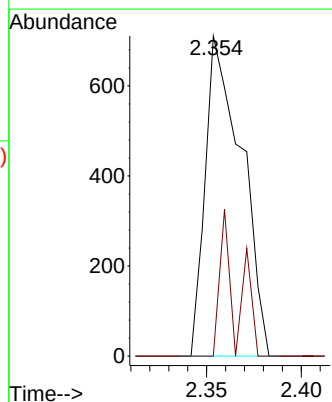
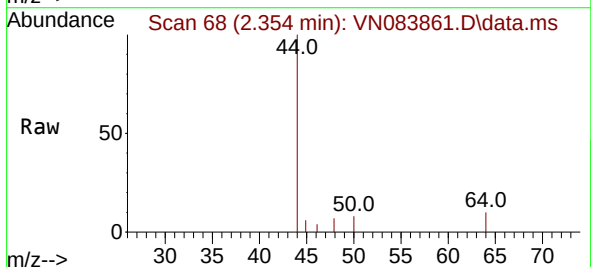
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

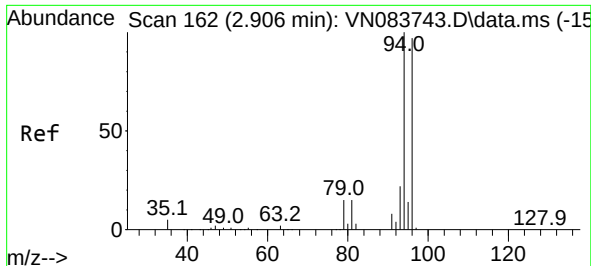
Tgt Ion:168 Resp: 110889  
Ion Ratio Lower Upper  
168 100  
99 67.2 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.354 min Scan# 68  
Delta R.T. -0.005 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion: 50 Resp: 942  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#

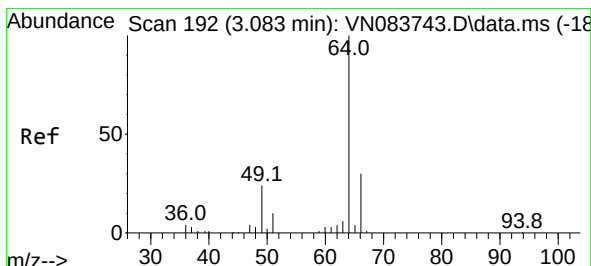
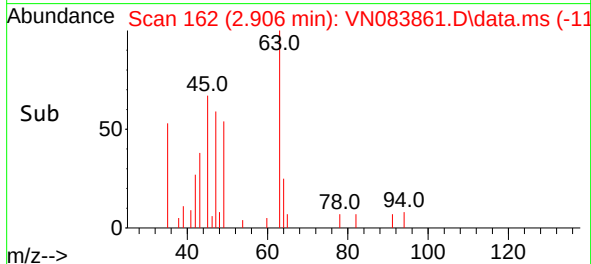
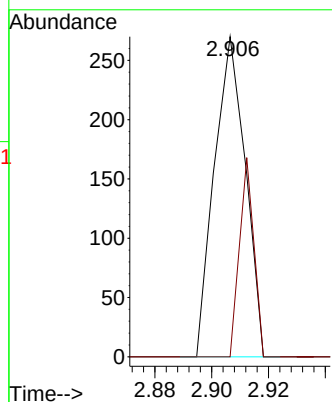
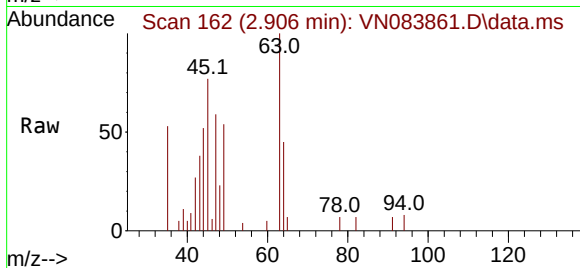




#5  
Bromomethane  
Concen: 0.252 ug/l  
RT: 2.906 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

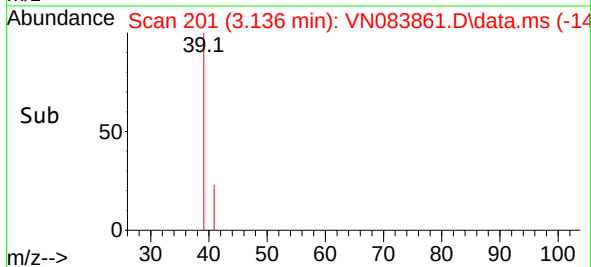
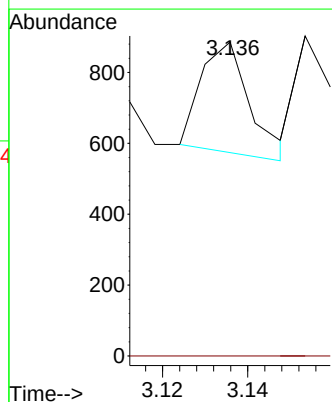
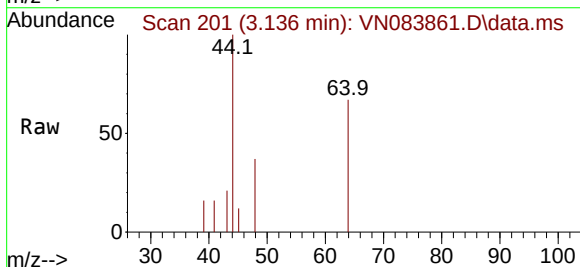
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

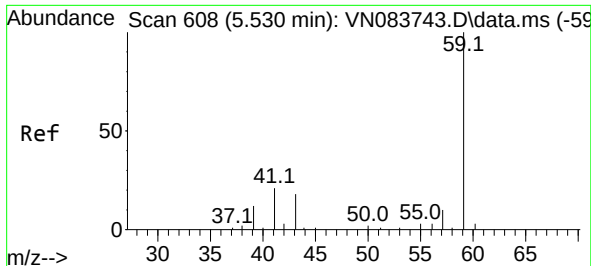
Tgt Ion: 94 Resp: 204  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.0 114.0#



#6  
Chloroethane  
Concen: 0.241 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. 0.053 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion: 64 Resp: 239  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.9 35.9#





#11

Tert butyl alcohol

Concen: 2.077 ug/l

RT: 5.518 min Scan# 608

Delta R.T. -0.012 min

Lab File: VN083861.D

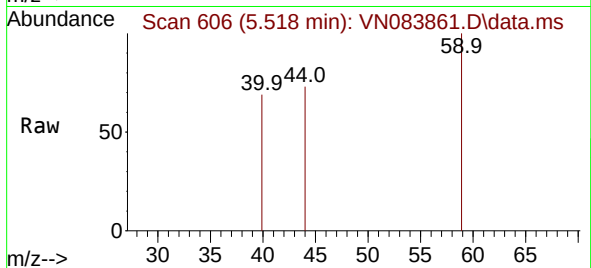
Acq: 13 Sep 2024 08:12

Instrument :

MSVOA\_N

ClientSampleId :

RE104D3-20240911

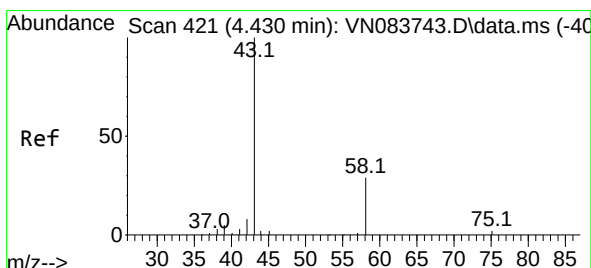
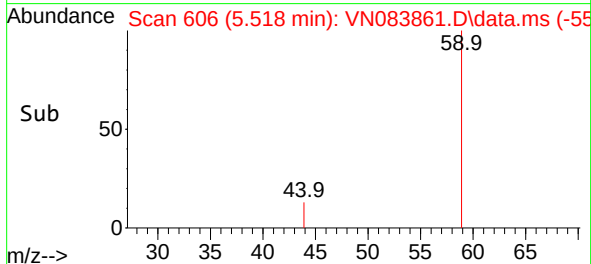
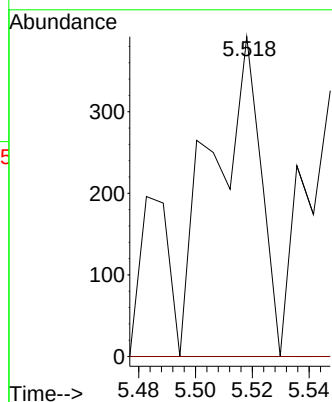


Tgt Ion: 59 Resp: 465

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#16

Acetone

Concen: 3.297 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN083861.D

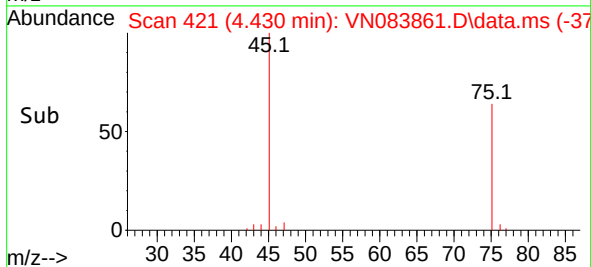
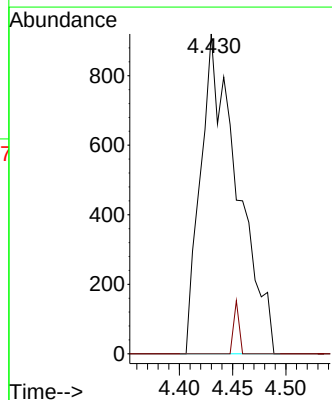
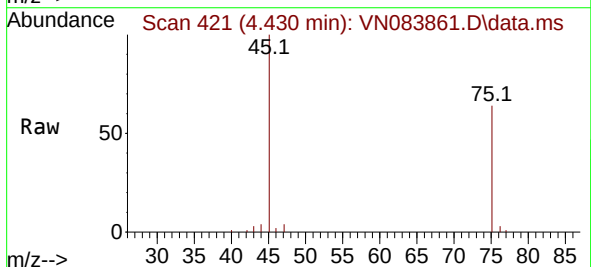
Acq: 13 Sep 2024 08:12

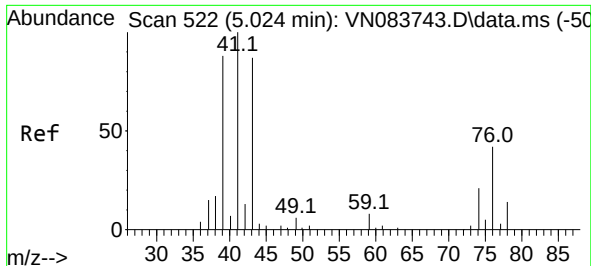
Tgt Ion: 43 Resp: 2210

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#





#18

Methyl Acetate

Concen: Below Cal

RT: 5.042 min Scan# 51

Delta R.T. 0.018 min

Lab File: VN083861.D

Acq: 13 Sep 2024 08:12

Instrument :

MSVOA\_N

ClientSampleId :

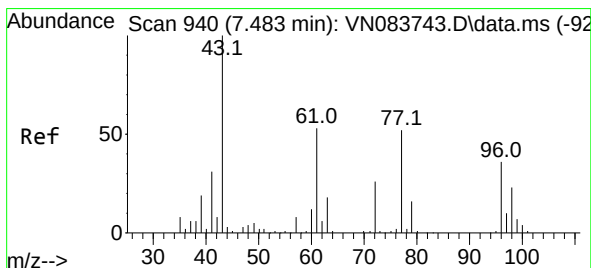
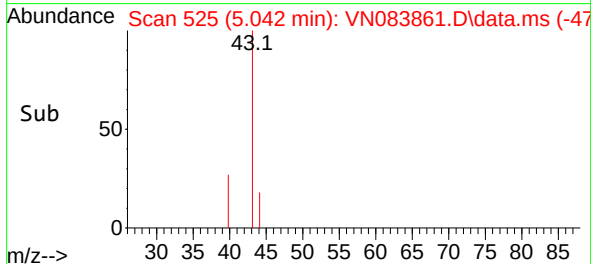
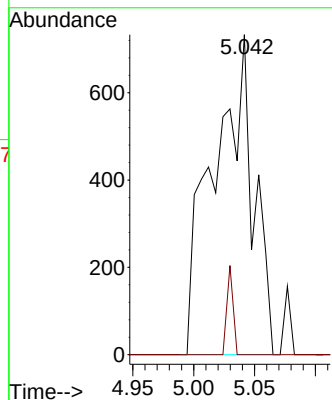
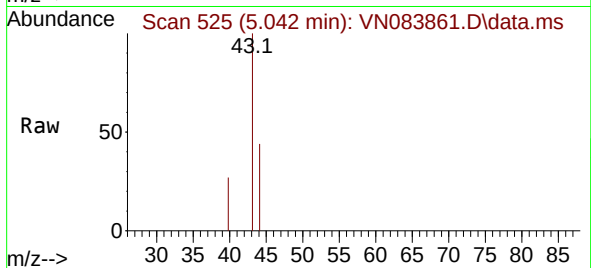
RE104D3-20240911

Tgt Ion: 43 Resp: 1673

Ion Ratio Lower Upper

43 100

74 4.3 19.0 28.4#



#27

cis-1,2-Dichloroethene

Concen: 0.293 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083861.D

Acq: 13 Sep 2024 08:12

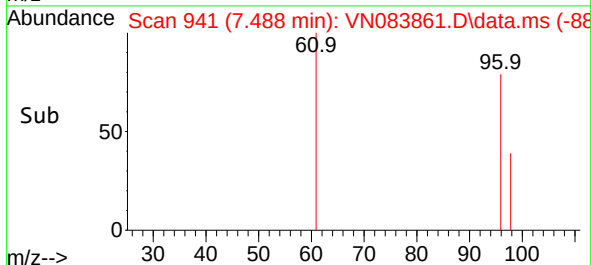
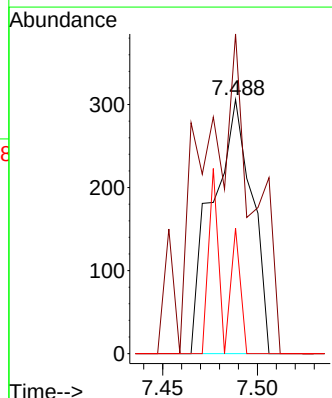
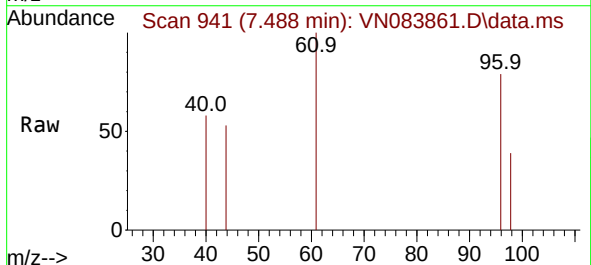
Tgt Ion: 96 Resp: 447

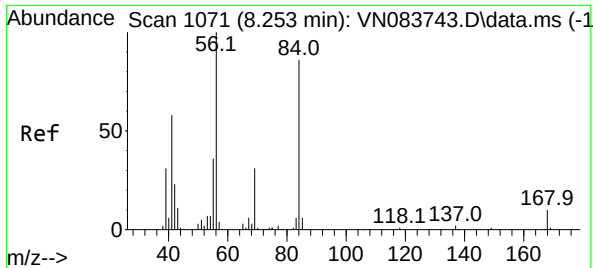
Ion Ratio Lower Upper

96 100

61 162.9 0.0 306.2

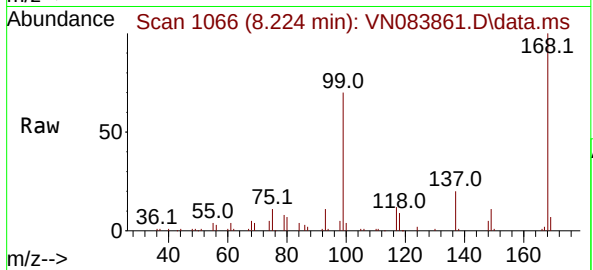
98 29.5 0.0 128.6



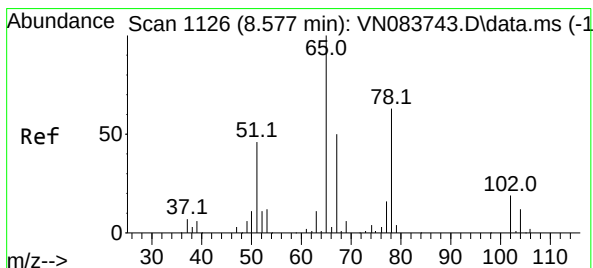
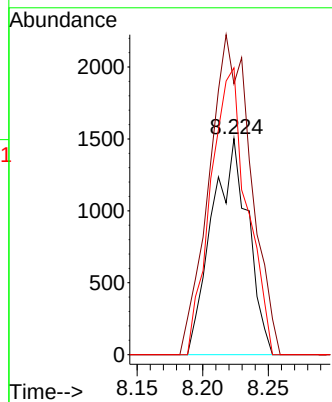
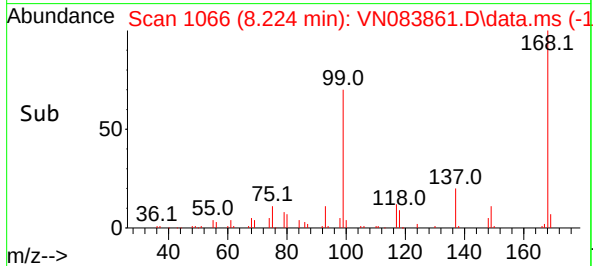


#31  
Cyclohexane  
Concen: 1.189 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

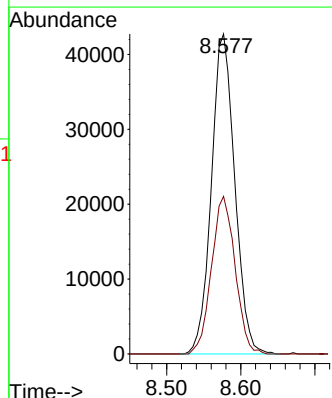
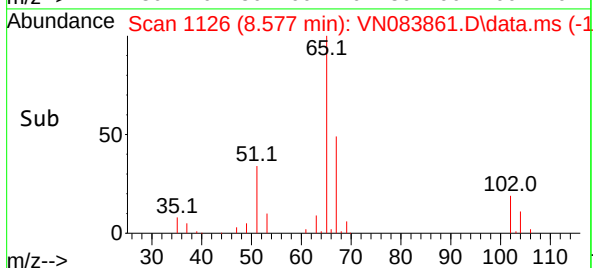
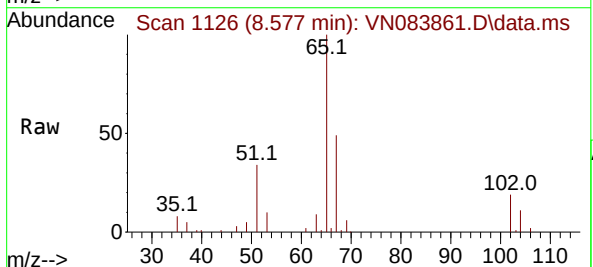


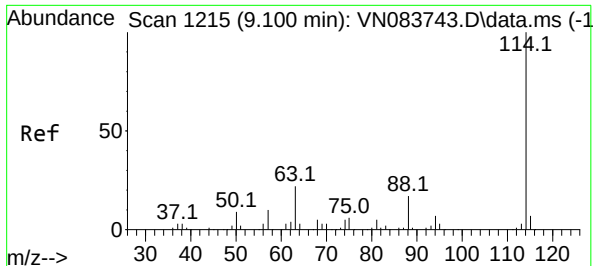
Tgt Ion: 56 Resp: 2873  
Ion Ratio Lower Upper  
56 100  
69 125.3 26.9 40.3#  
84 132.7 69.2 103.8#



#33  
1,2-Dichloroethane-d4  
Concen: 55.993 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion: 65 Resp: 93623  
Ion Ratio Lower Upper  
65 100  
67 49.7 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083861.D

Acq: 13 Sep 2024 08:12

Instrument :

MSVOA\_N

ClientSampleId :

RE104D3-20240911

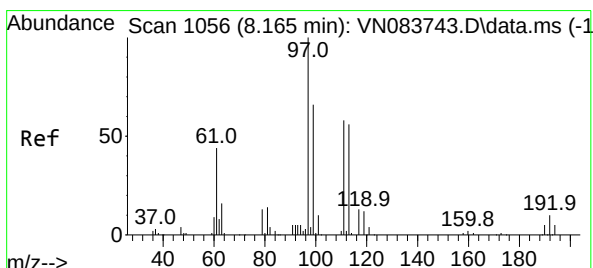
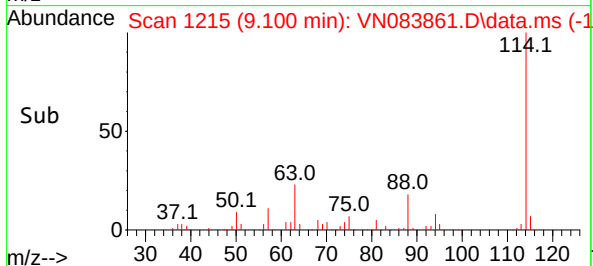
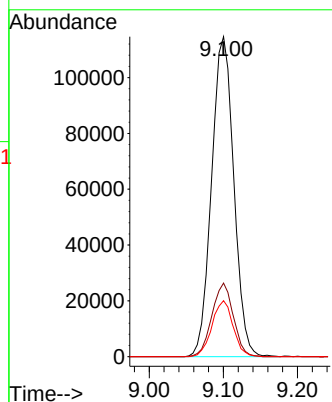
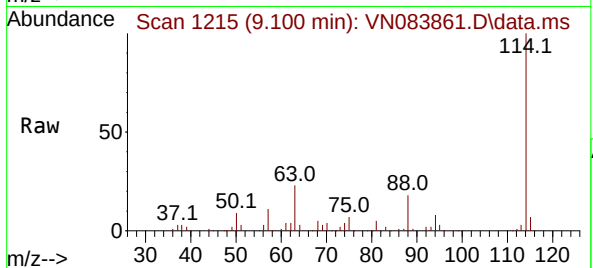
Tgt Ion:114 Resp: 238469

Ion Ratio Lower Upper

114 100

63 23.0 0.0 43.4

88 17.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.453 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083861.D

Acq: 13 Sep 2024 08:12

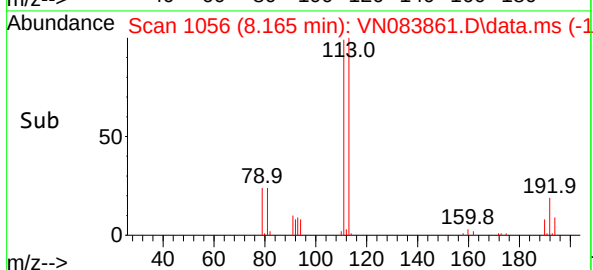
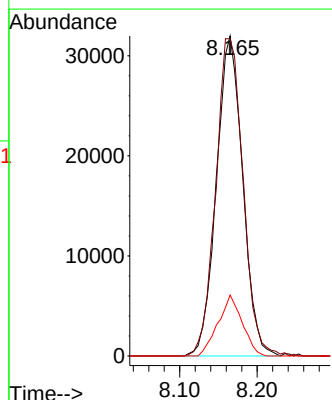
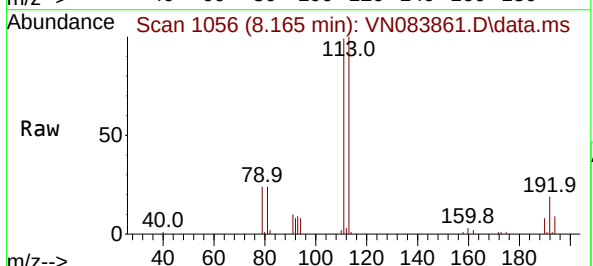
Tgt Ion:113 Resp: 75497

Ion Ratio Lower Upper

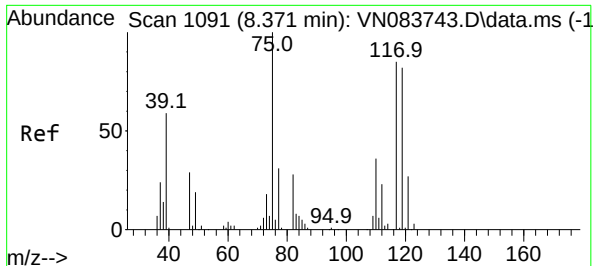
113 100

111 103.2 82.6 124.0

192 17.4 14.3 21.5







#36

1,1-Dichloropropene

Concen: 4.659 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN083861.D

Acq: 13 Sep 2024 08:12

Instrument :

MSVOA\_N

ClientSampleId :

RE104D3-20240911

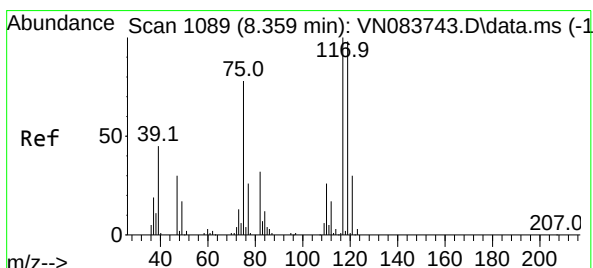
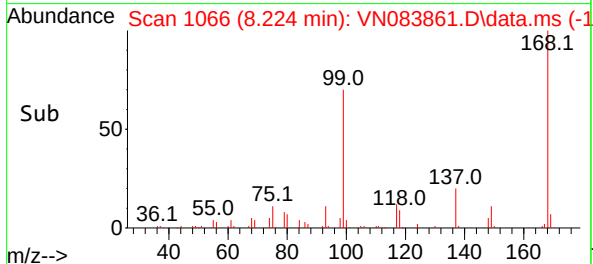
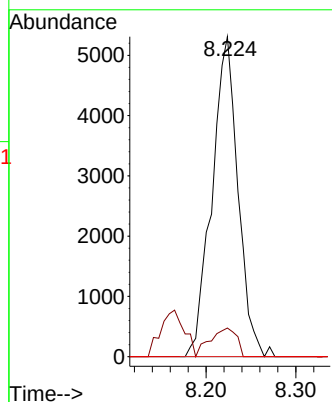
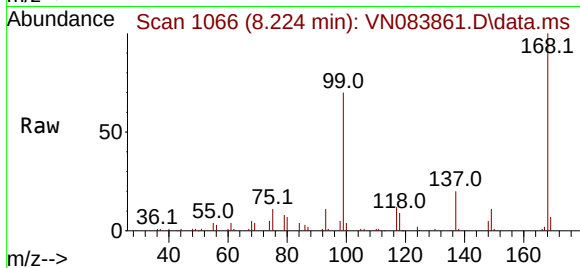
Tgt Ion: 75 Resp: 10705

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.1#

77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.038 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN083861.D

Acq: 13 Sep 2024 08:12

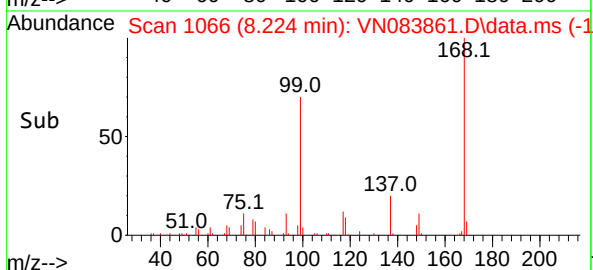
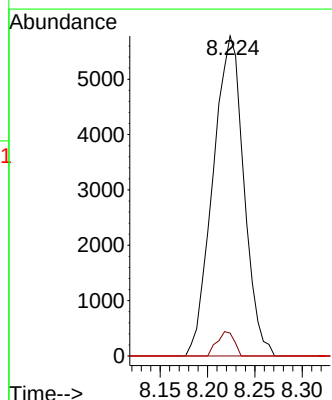
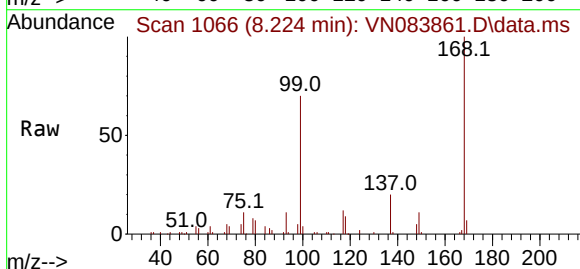
Tgt Ion: 117 Resp: 13133

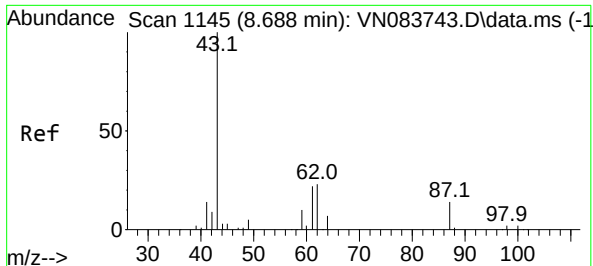
Ion Ratio Lower Upper

117 100

119 7.1 76.1 114.1#

121 0.0 24.1 36.1#

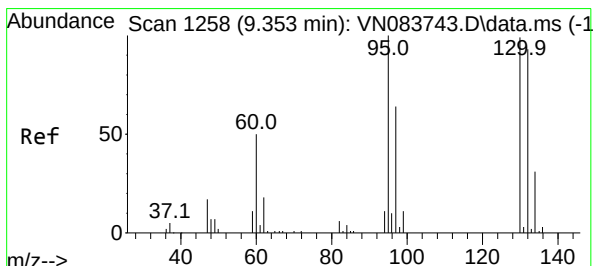
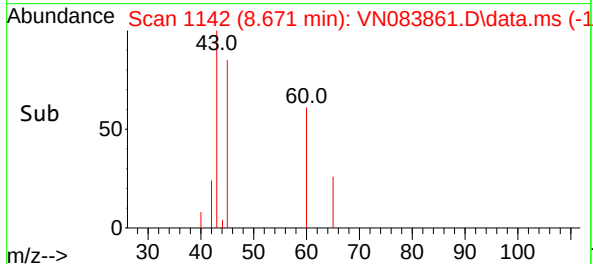
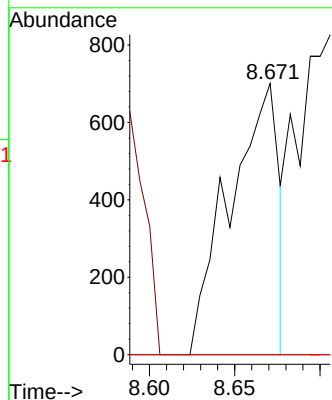
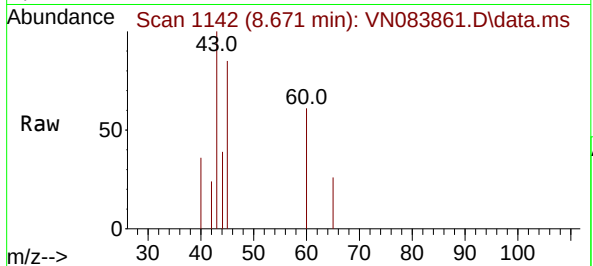




#43  
Isopropyl Acetate  
Concen: 0.371 ug/l  
RT: 8.671 min Scan# 1142  
Delta R.T. -0.018 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

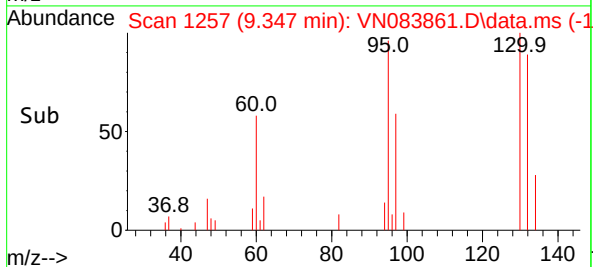
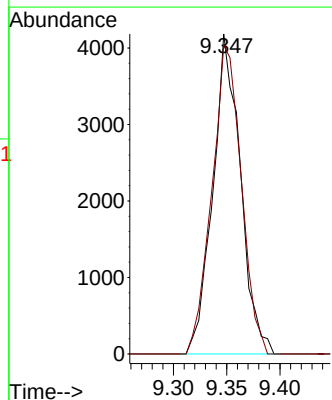
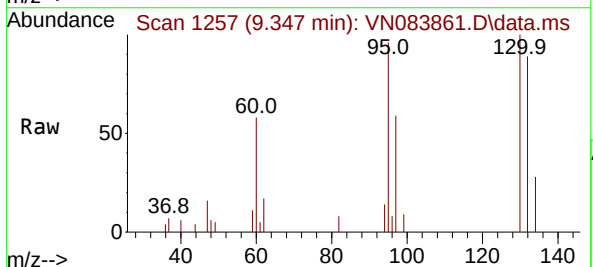
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

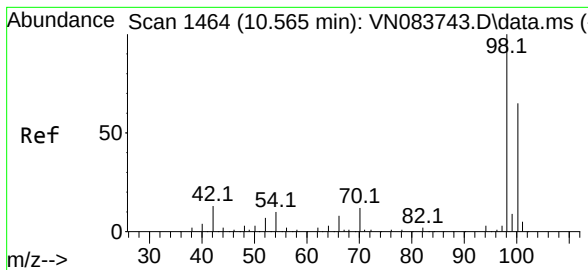
Tgt Ion: 43 Resp: 1403  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.4 29.0#  
87 0.0 9.8 14.6#



#44  
Trichloroethene  
Concen: 4.694 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.006 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion:130 Resp: 7518  
Ion Ratio Lower Upper  
130 100  
95 96.4 0.0 200.4

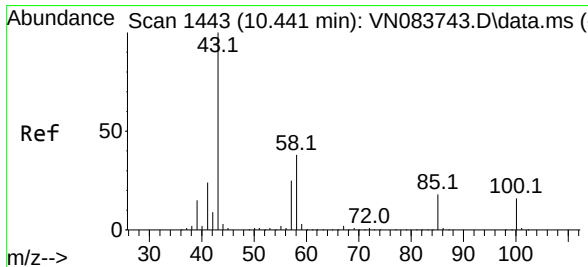
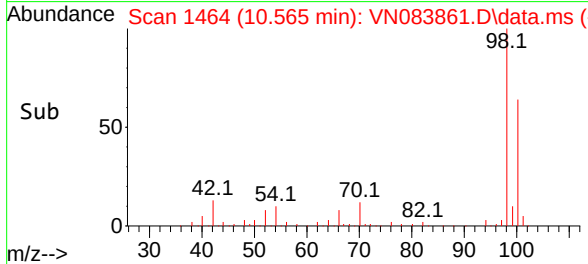
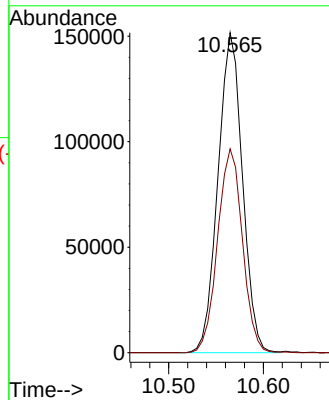
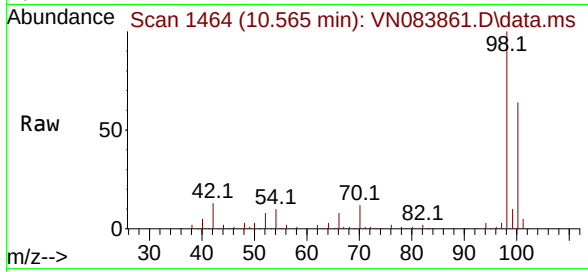




#50  
Toluene-d8  
Concen: 51.594 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

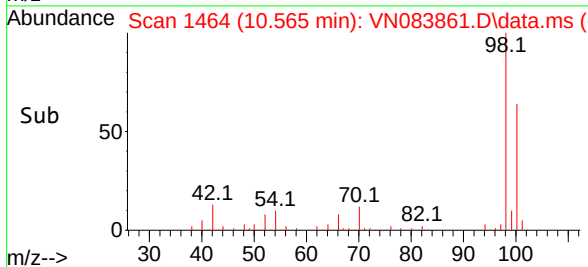
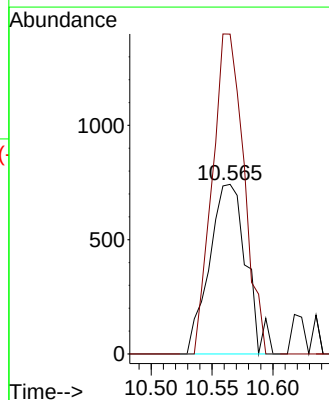
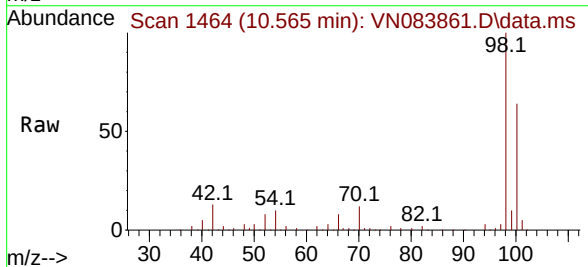
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

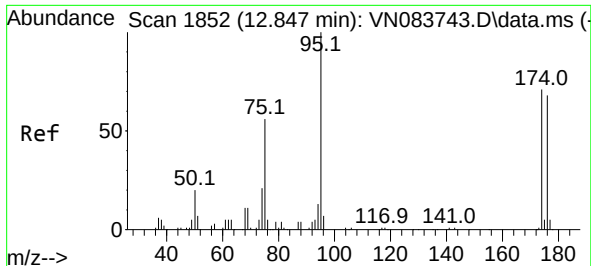
Tgt Ion: 98 Resp: 272297  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.758 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.124 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion: 43 Resp: 1560  
Ion Ratio Lower Upper  
43 100  
58 161.7 31.6 47.4#

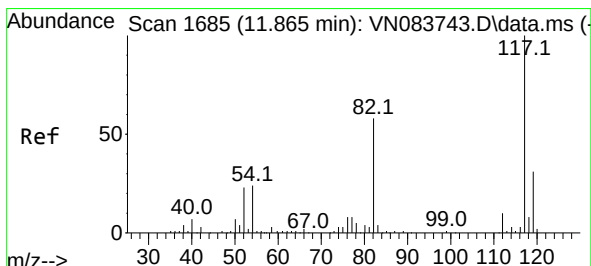
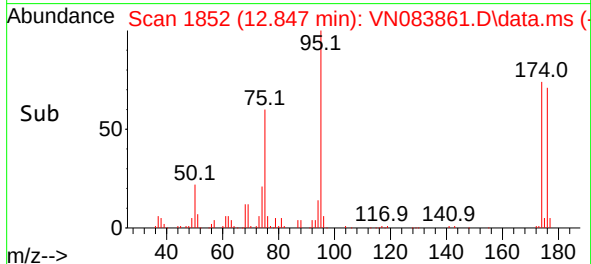
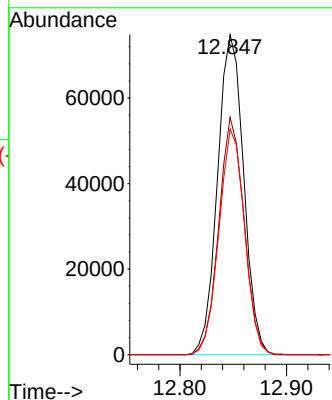
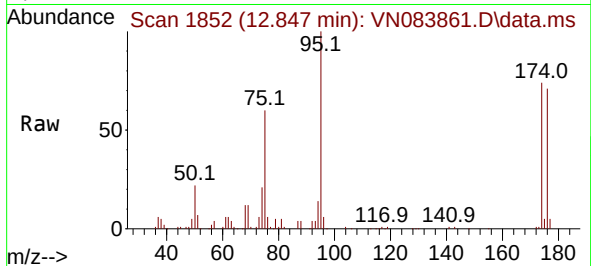




#62  
4-Bromofluorobenzene  
Concen: 58.447 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

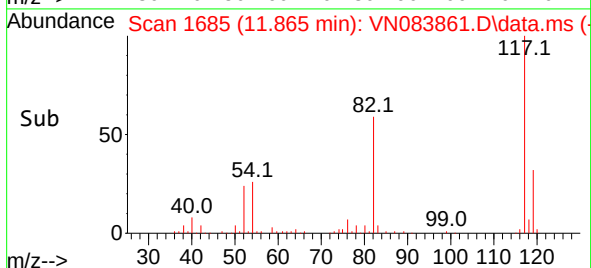
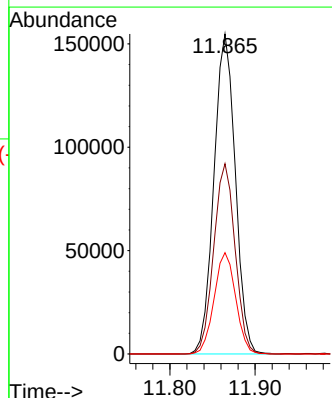
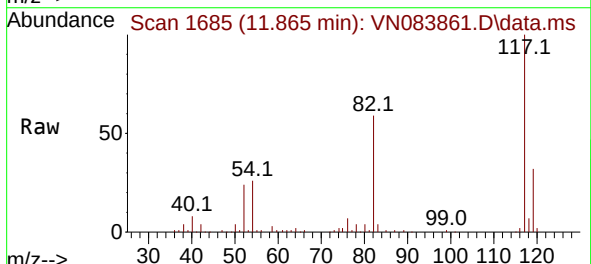
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

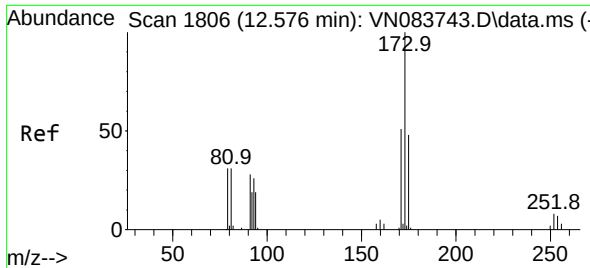
Tgt Ion: 95 Resp: 127265  
Ion Ratio Lower Upper  
95 100  
174 71.9 0.0 139.8  
176 69.2 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion: 117 Resp: 270349  
Ion Ratio Lower Upper  
117 100  
82 59.5 47.4 71.0  
119 31.6 26.3 39.5

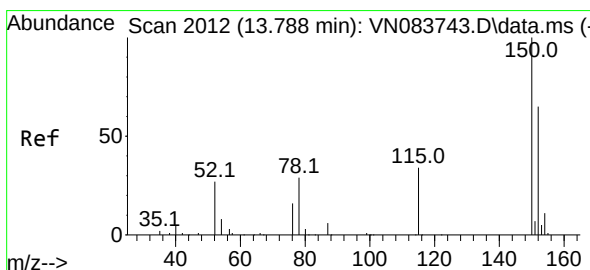
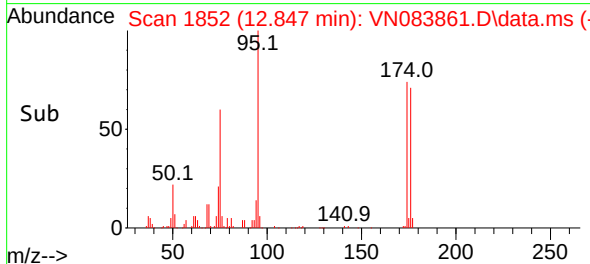
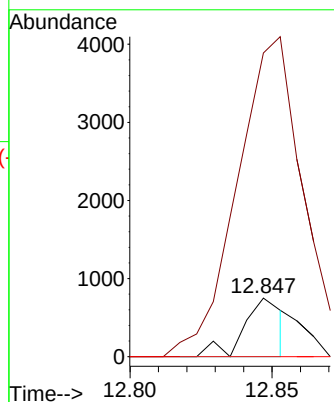
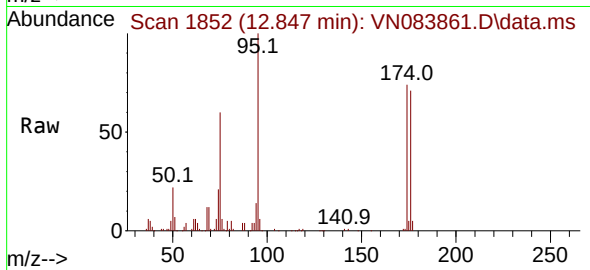




#71  
Bromoform  
Concen: 0.507 ug/l  
RT: 12.847 min Scan# 1806  
Delta R.T. 0.271 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

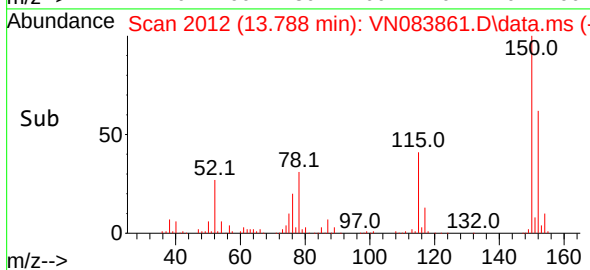
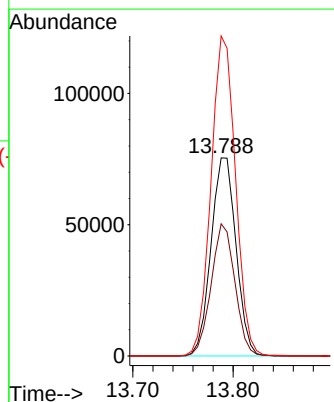
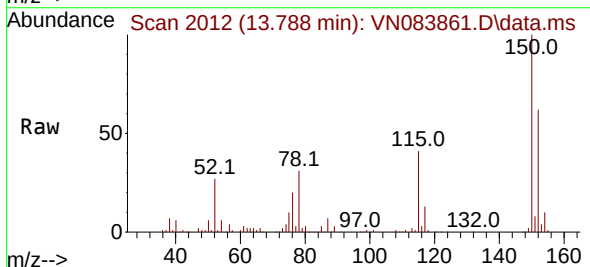
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

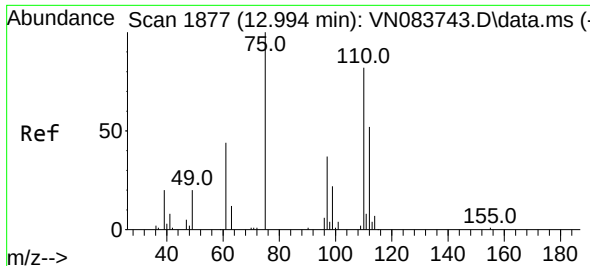
Tgt Ion:173 Resp: 711  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.1 72.2#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion:152 Resp: 130831  
Ion Ratio Lower Upper  
152 100  
115 63.5 32.2 96.6  
150 158.2 0.0 348.6

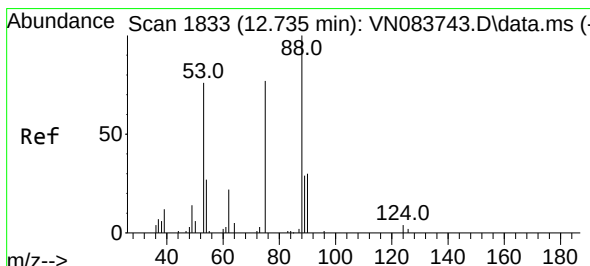
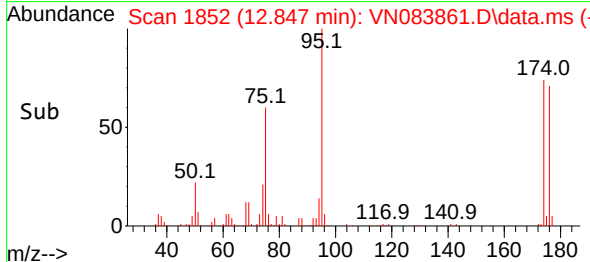
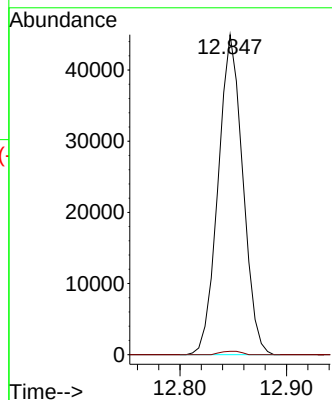
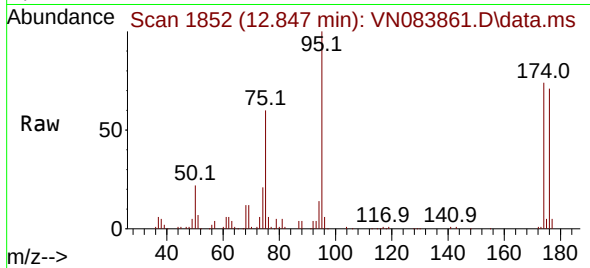




#76  
1,2,3-Trichloropropane  
Concen: 27.379 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE104D3-20240911

Tgt Ion: 75 Resp: 72277  
Ion Ratio Lower Upper  
75 100  
77 0.9 95.2 285.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.707 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN083861.D  
Acq: 13 Sep 2024 08:12

Tgt Ion: 75 Resp: 72277  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.2 121.8#  
89 0.0 35.7 53.5#

