

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090424\  
 Data File : VN083652.D  
 Acq On : 04 Sep 2024 16:18  
 Operator : JC\MD  
 Sample : P3821-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 05 02:27:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 31 00:48:10 2024  
 Response via : Initial Calibration

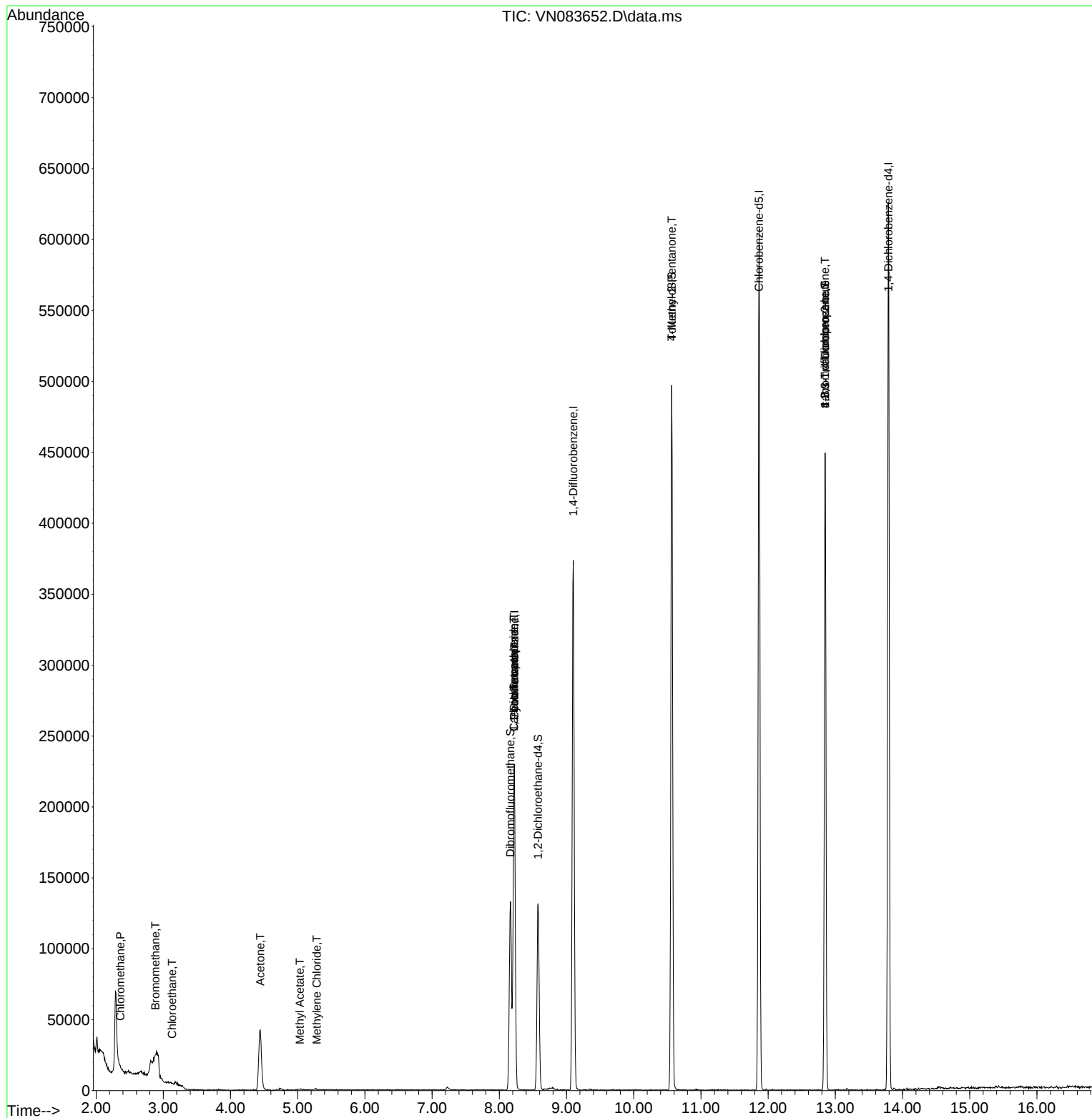
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168            | 155195   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114            | 315565   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 328743   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 157607   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65             | 113381   | 52.273     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 104.540% |        |          |
| 35) Dibromofluoromethane      | 8.165  | 113            | 93476    | 49.216     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 98.440%  |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 333068   | 45.095     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 90.200%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 155672   | 56.817     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 113.640% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 3) Chloromethane              | 2.360  | 50             | 1522     | 0.795      | ug/l   | 91       |
| 5) Bromomethane               | 2.883  | 94             | 388      | 0.385      | ug/l # | 2        |
| 6) Chloroethane               | 3.130  | 64             | 548      | 0.438      | ug/l # | 45       |
| 16) Acetone                   | 4.442  | 43             | 2056     | 2.377      | ug/l # | 45       |
| 18) Methyl Acetate            | 5.030  | 43             | 1771     | 0.770      | ug/l # | 52       |
| 20) Methylene Chloride        | 5.283  | 84             | 611      | 0.320      | ug/l # | 51       |
| 31) Cyclohexane               | 8.224  | 56             | 4198     | 1.251      | ug/l # | 52       |
| 36) 1,1-Dichloropropene       | 8.218  | 75             | 14213    | 4.906      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.218  | 117            | 18235    | 5.517      | ug/l # | 15       |
| 43) Isopropyl Acetate         | 8.665  | 43             | 595      | Below Cal  | #      | 57       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43             | 1900     | 0.709      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 86539    | 27.196     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 86539    | 64.144     | ug/l # | 9        |
| -----                         |        |                |          |            |        |          |

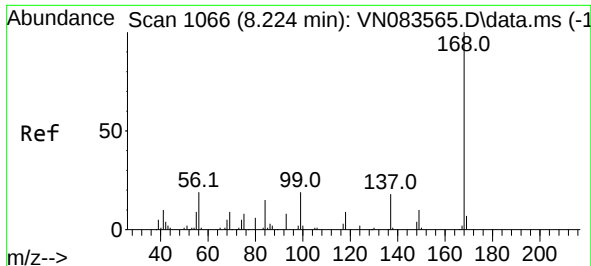
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090424\  
Data File : VN083652.D  
Acq On : 04 Sep 2024 16:18  
Operator : JC\MD  
Sample : P3821-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

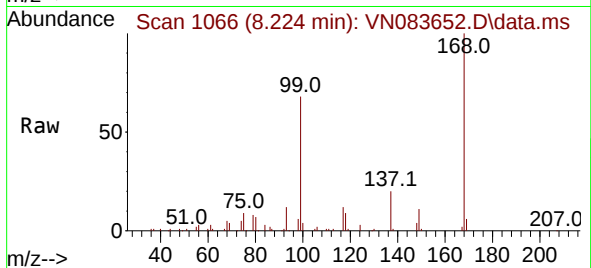
Quant Time: Sep 05 02:27:55 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 31 00:48:10 2024  
Response via : Initial Calibration



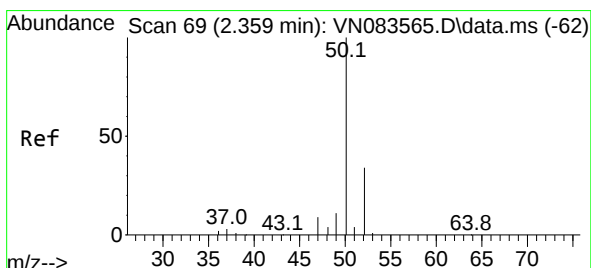
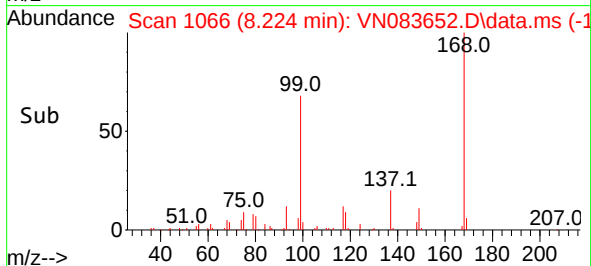
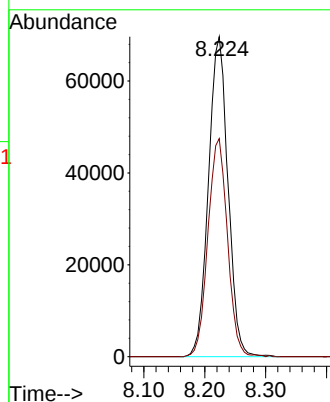


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :

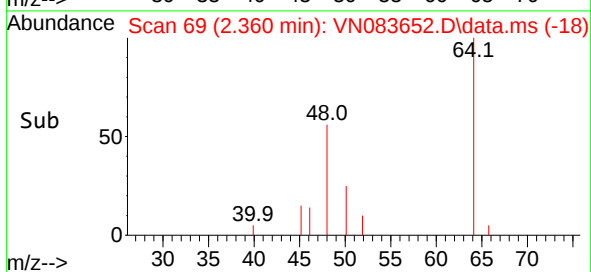
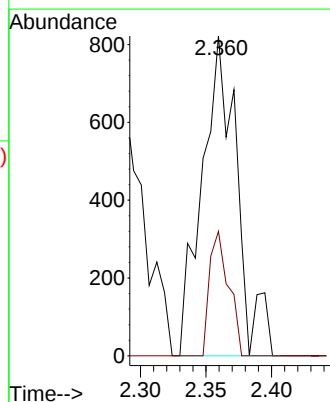
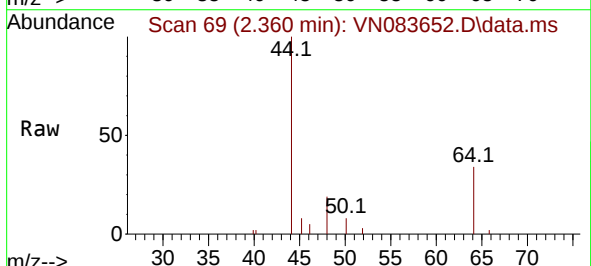


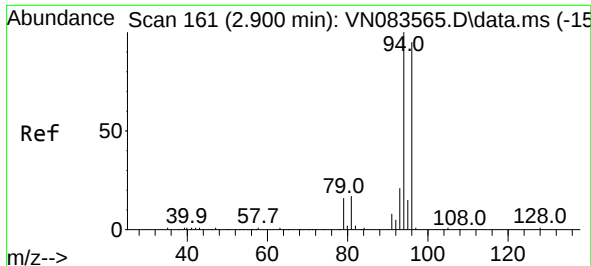
Tgt Ion:168 Resp: 155195  
Ion Ratio Lower Upper  
168 100  
99 68.1 54.2 81.2



#3  
Chloromethane  
Concen: 0.795 ug/l  
RT: 2.360 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Tgt Ion: 50 Resp: 1522  
Ion Ratio Lower Upper  
50 100  
52 38.9 27.2 40.8

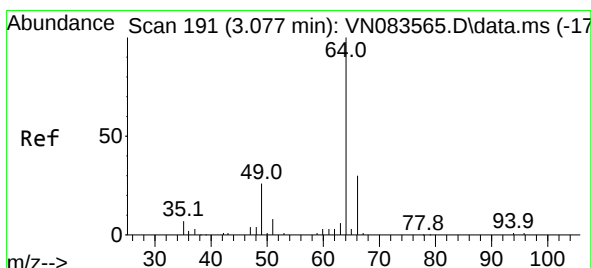
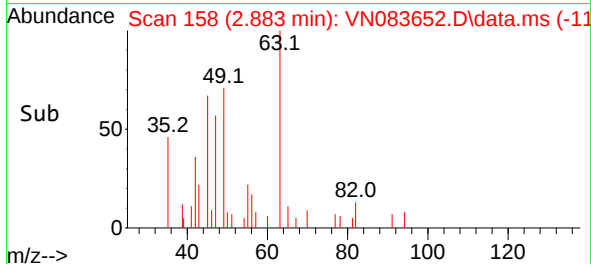
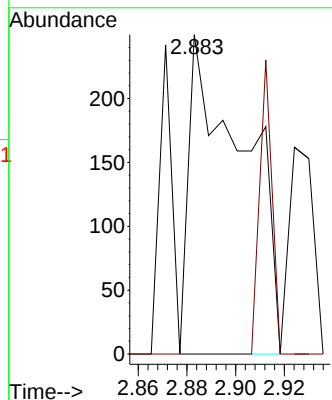
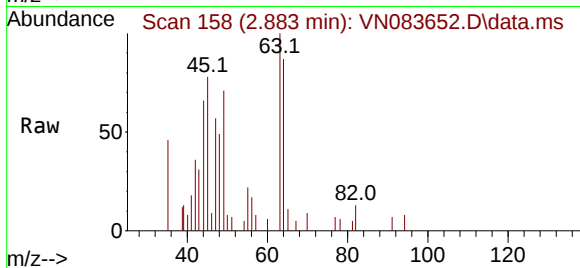




#5  
Bromomethane  
Concen: 0.385 ug/l  
RT: 2.883 min Scan# 11  
Delta R.T. -0.017 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

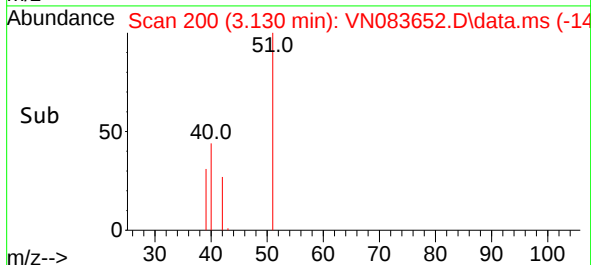
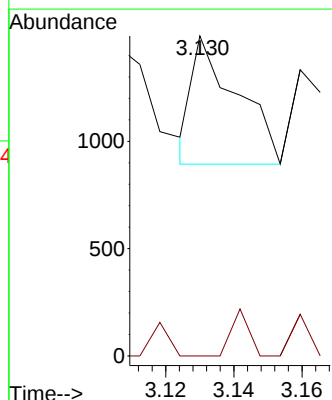
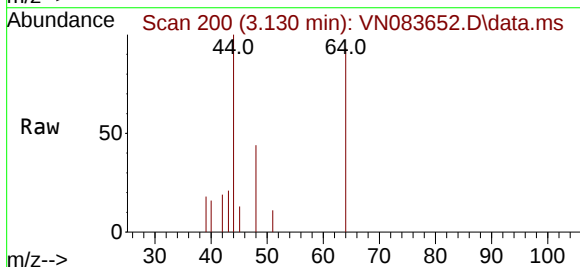
Instrument :  
MSVOA\_N  
ClientSampleId :

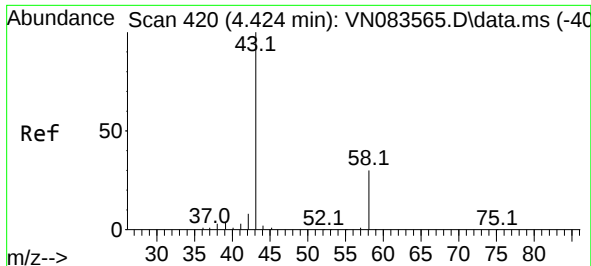
Tgt Ion: 94 Resp: 388  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.0 114.0#



#6  
Chloroethane  
Concen: 0.438 ug/l  
RT: 3.130 min Scan# 200  
Delta R.T. 0.053 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Tgt Ion: 64 Resp: 548  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.9 35.9#





#16

Acetone

Concen: 2.377 ug/l

RT: 4.442 min Scan# 43

Delta R.T. 0.018 min

Lab File: VN083652.D

Acq: 04 Sep 2024 16:18

Instrument :

MSVOA\_N

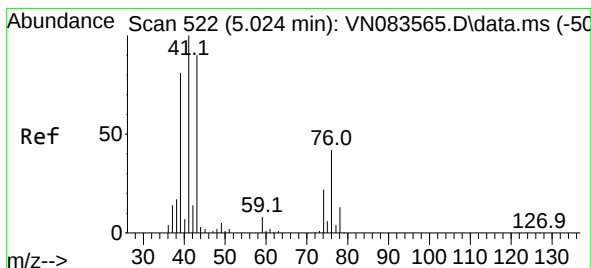
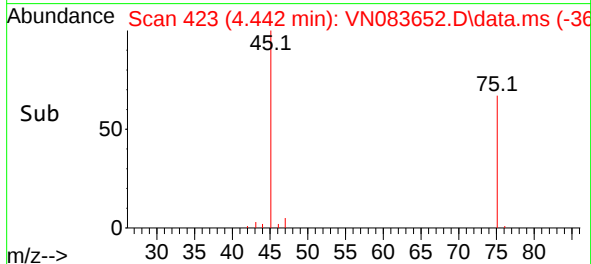
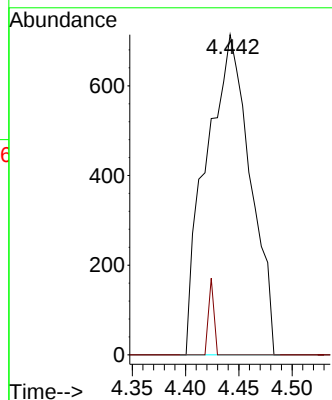
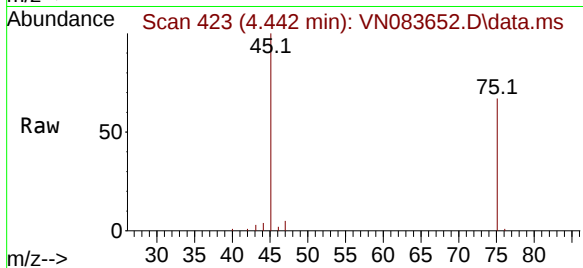
ClientSampleId :

Tgt Ion: 43 Resp: 2056

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#18

Methyl Acetate

Concen: 0.770 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.006 min

Lab File: VN083652.D

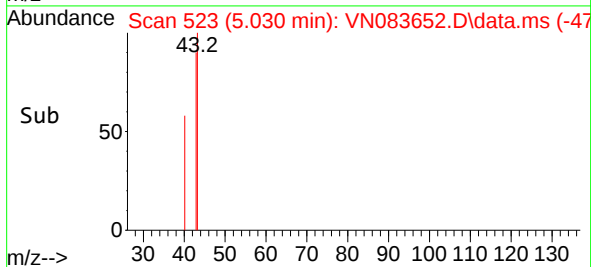
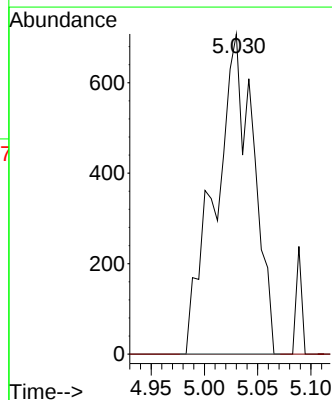
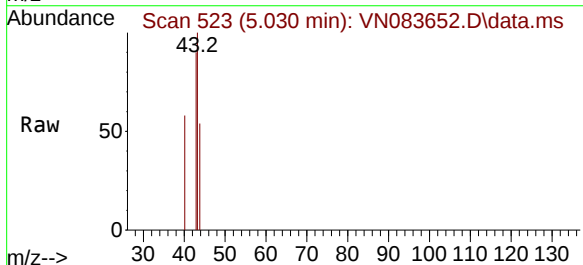
Acq: 04 Sep 2024 16:18

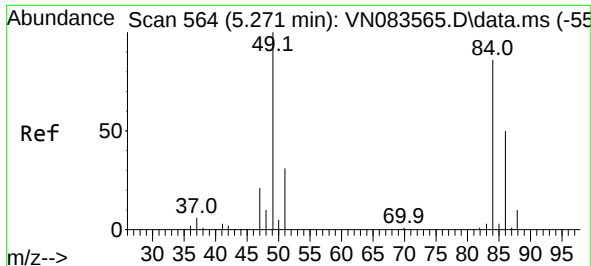
Tgt Ion: 43 Resp: 1771

Ion Ratio Lower Upper

43 100

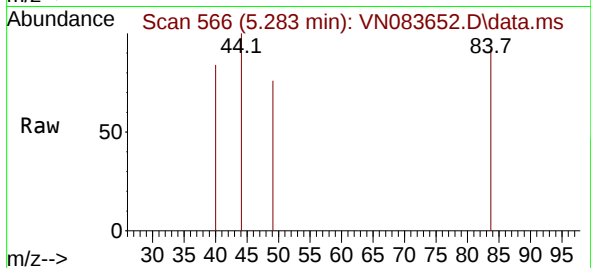
74 0.0 19.0 28.4#



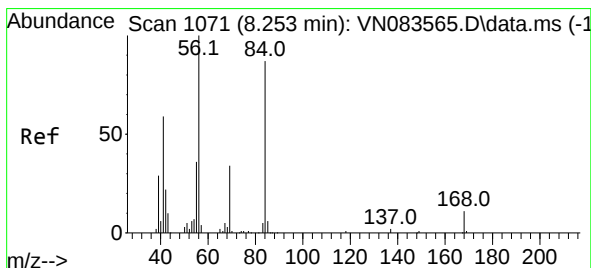
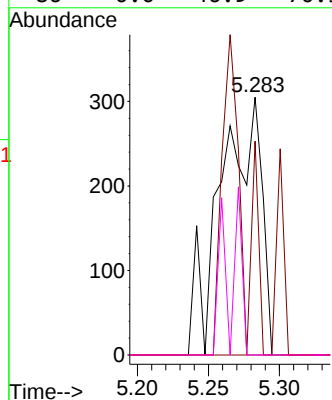


#20  
Methylene Chloride  
Concen: 0.320 ug/l  
RT: 5.283 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :

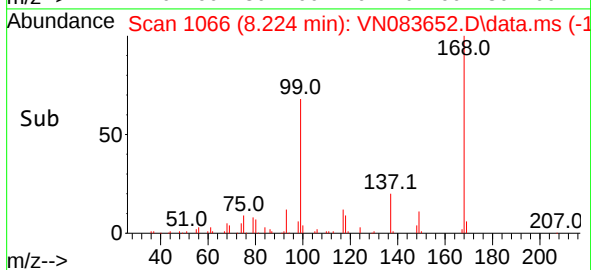
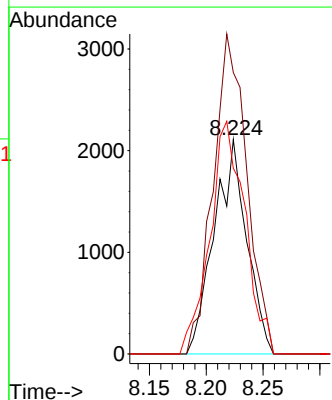
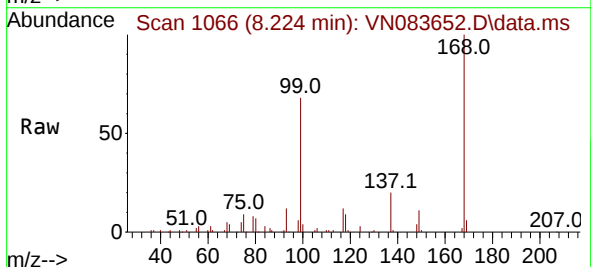


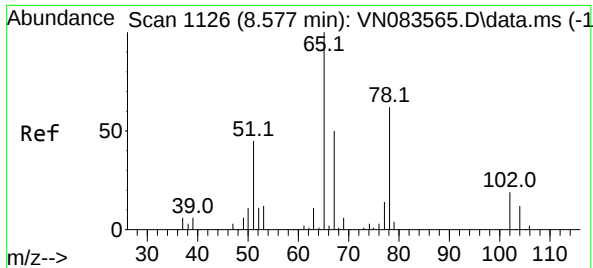
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 611   |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 83.0     | 93.4 140.0# |
| 51 0.0      | 29.2 43.8#  |
| 86 0.0      | 46.9 70.3#  |



#31  
Cyclohexane  
Concen: 1.251 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 4198  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 131.2    | 26.9 40.3#  |
| 84 86.6     | 69.2 103.8  |

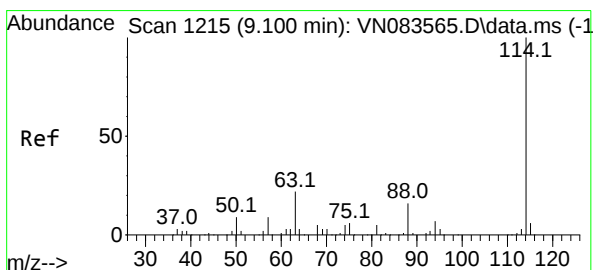
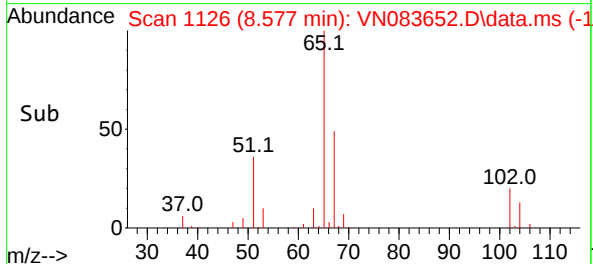
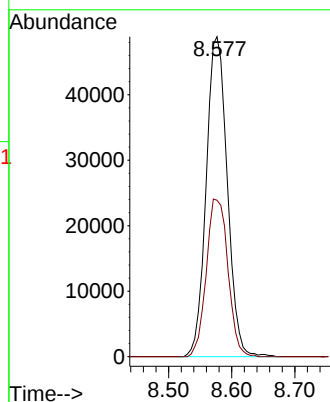
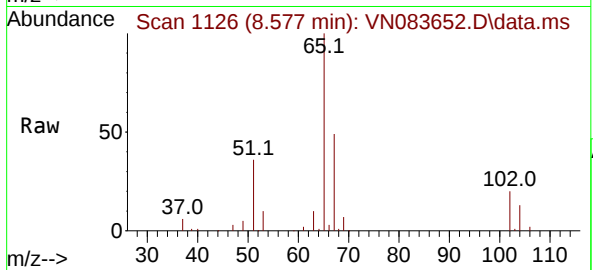




#33  
1,2-Dichloroethane-d4  
Concen: 52.273 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

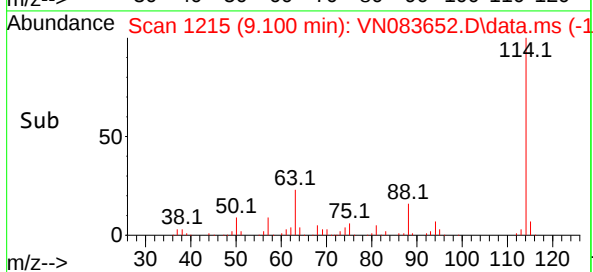
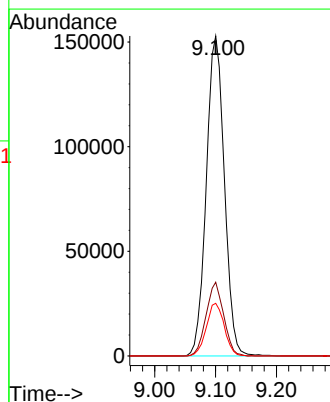
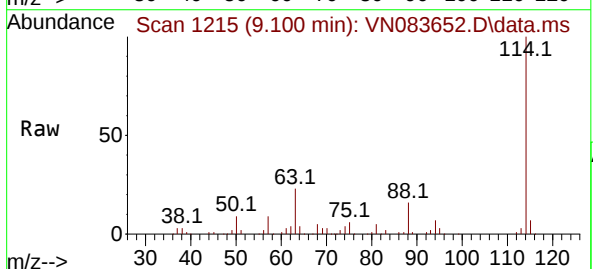
Instrument :  
MSVOA\_N  
ClientSampleId :

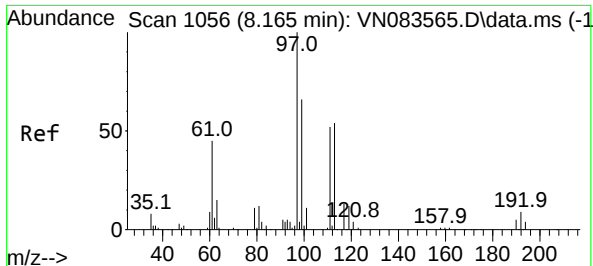
Tgt Ion: 65 Resp: 113381  
Ion Ratio Lower Upper  
65 100  
67 50.5 0.0 100.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. 0.000 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Tgt Ion: 114 Resp: 315565  
Ion Ratio Lower Upper  
114 100  
63 23.1 0.0 43.4  
88 16.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.216 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083652.D

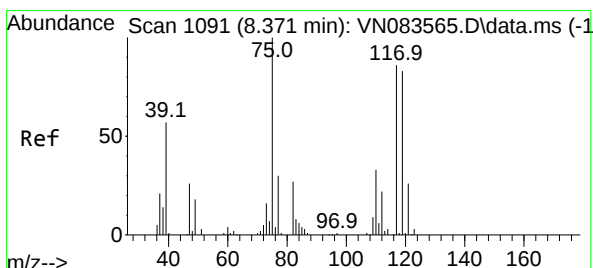
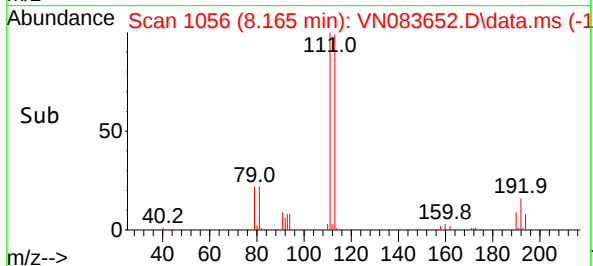
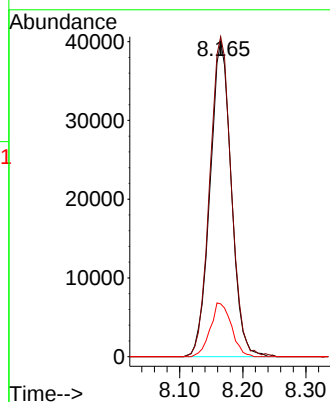
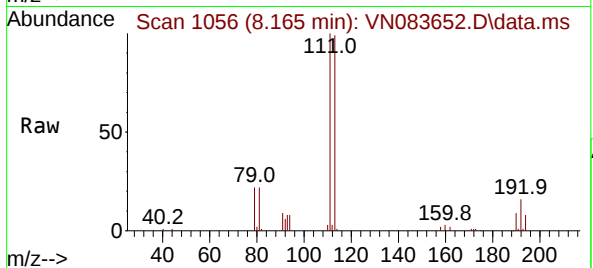
Acq: 04 Sep 2024 16:18

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 93476 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.0 | 82.6  | 124.0 |
| 192      | 16.9  | 14.3  | 21.5  |



#36

1,1-Dichloropropene

Concen: 4.906 ug/l

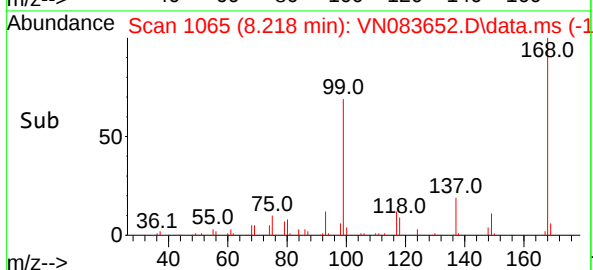
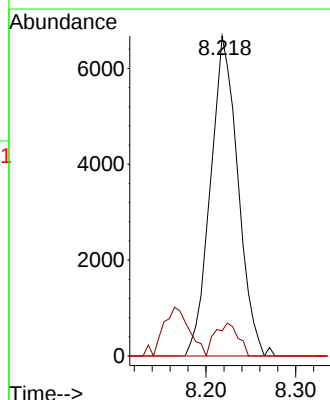
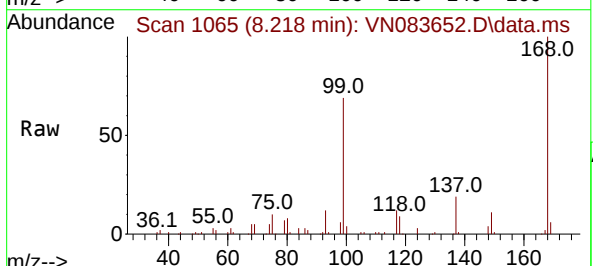
RT: 8.218 min Scan# 1065

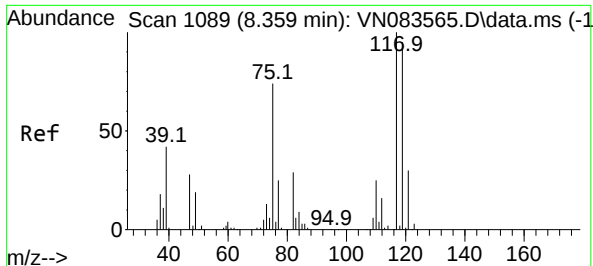
Delta R.T. -0.153 min

Lab File: VN083652.D

Acq: 04 Sep 2024 16:18

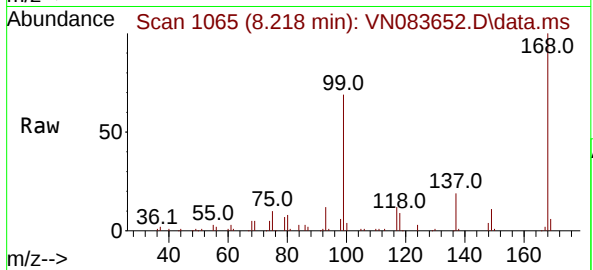
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 14213 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.6   | 16.7  | 50.1# |
| 77       | 0.0   | 25.2  | 37.8# |



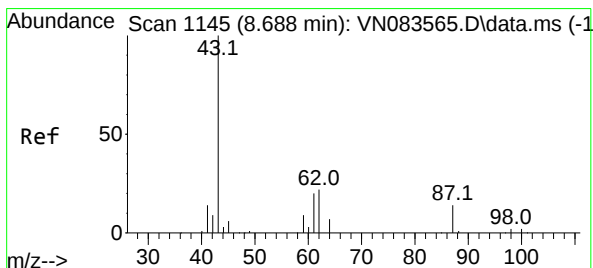
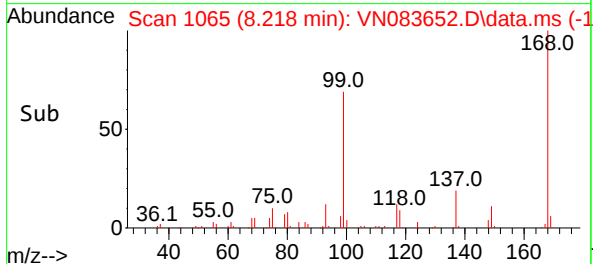
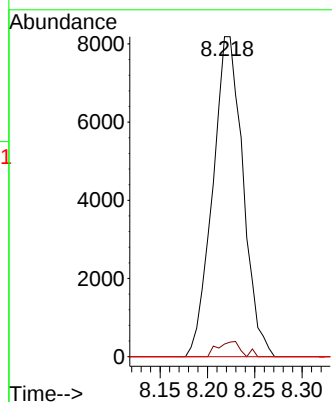


#38  
Carbon Tetrachloride  
Concen: 5.517 ug/l  
RT: 8.218 min Scan# 1105  
Delta R.T. -0.141 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :

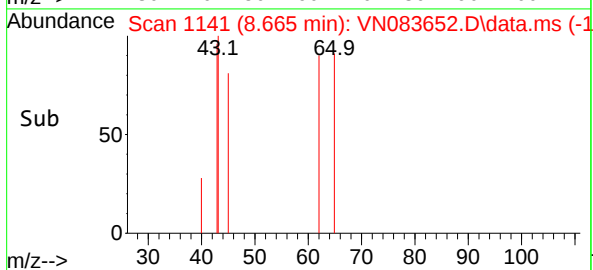
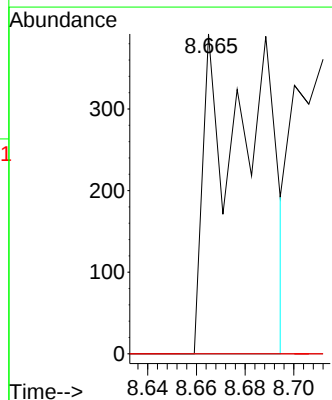
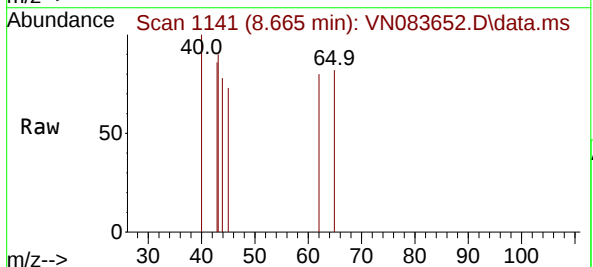


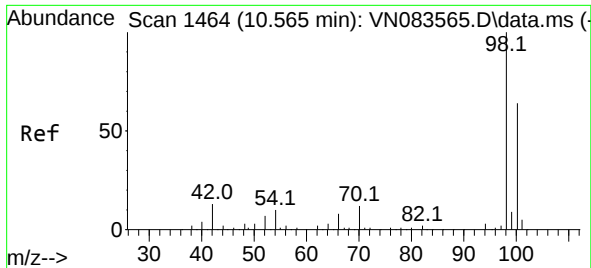
Tgt Ion:117 Resp: 18235  
Ion Ratio Lower Upper  
117 100  
119 3.9 76.1 114.1#  
121 0.0 24.1 36.1#



#43  
Isopropyl Acetate  
Concen: Below Cal  
RT: 8.665 min Scan# 1141  
Delta R.T. -0.023 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Tgt Ion: 43 Resp: 595  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.4 29.0#  
87 0.0 9.8 14.6#

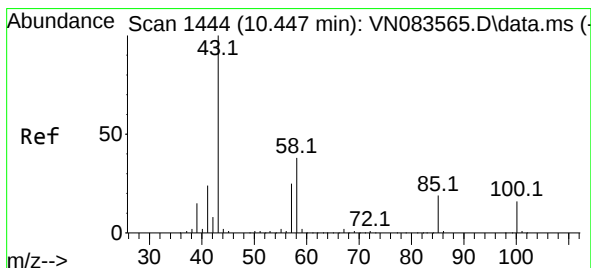
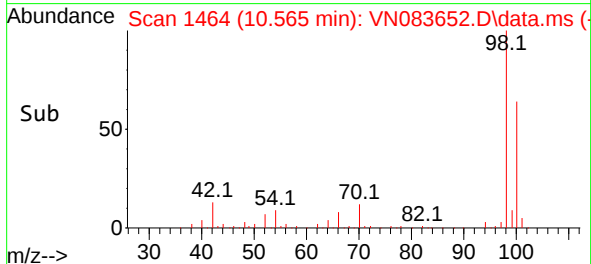
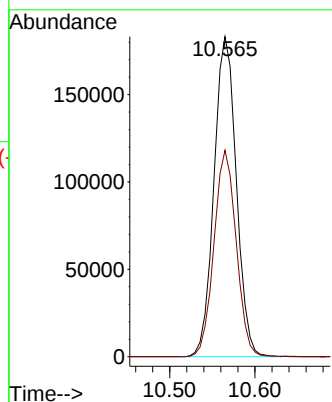
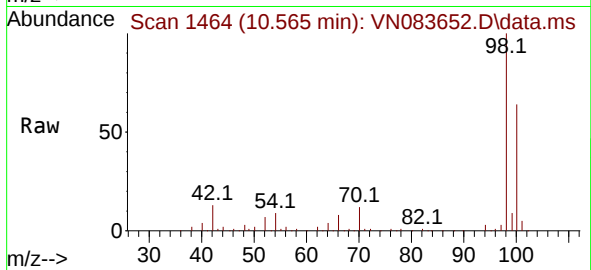




#50  
Toluene-d8  
Concen: 45.095 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

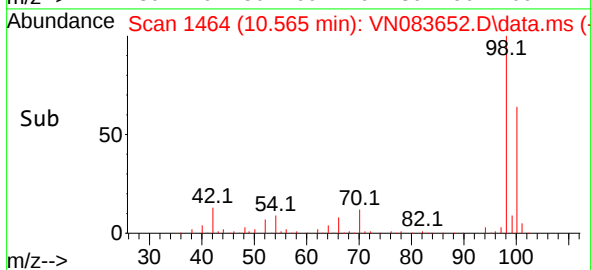
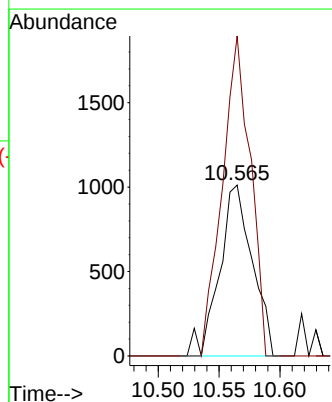
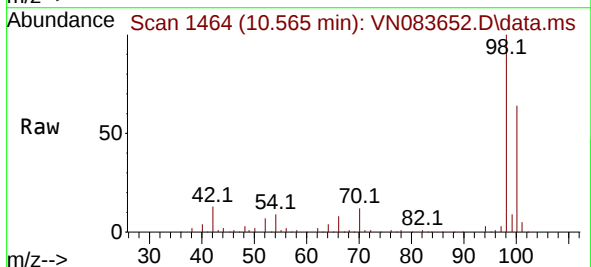
Instrument :  
MSVOA\_N  
ClientSampleId :

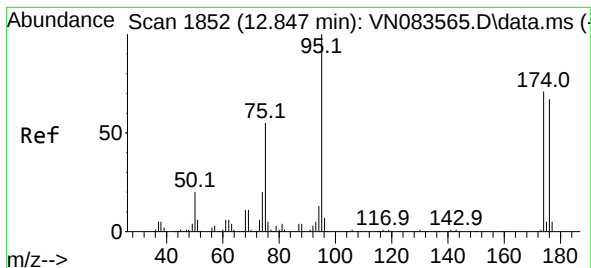
Tgt Ion: 98 Resp: 333068  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.709 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.118 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Tgt Ion: 43 Resp: 1900  
Ion Ratio Lower Upper  
43 100  
58 160.4 31.6 47.4#

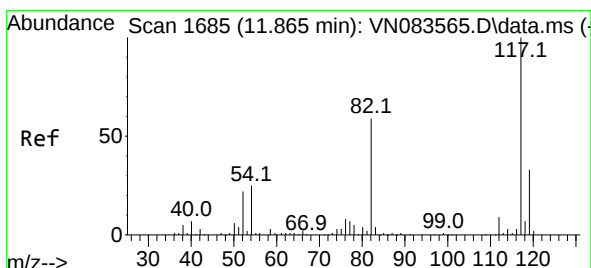
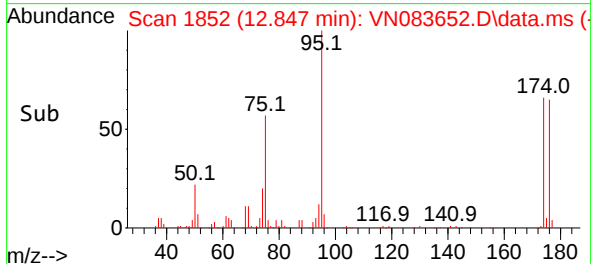
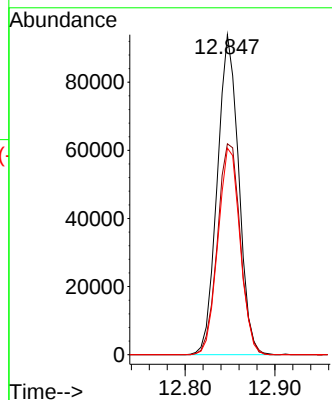
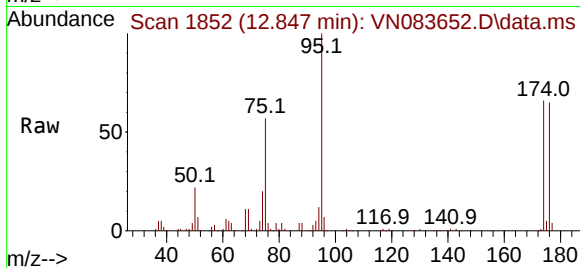




#62  
4-Bromofluorobenzene  
Concen: 56.817 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

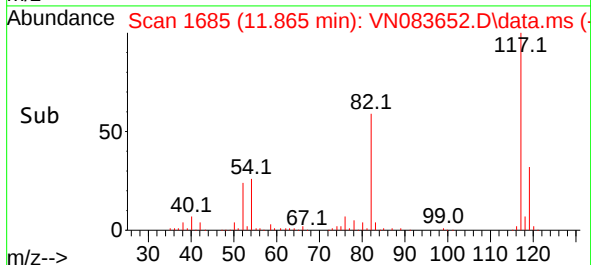
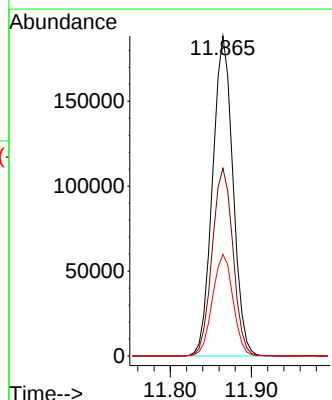
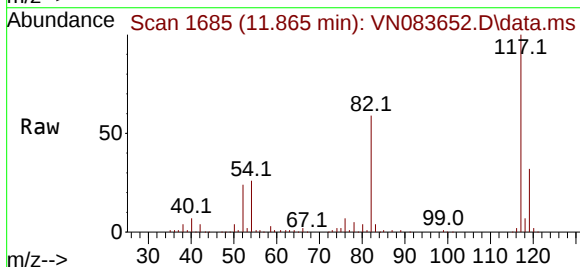
Instrument :  
MSVOA\_N  
ClientSampleId :

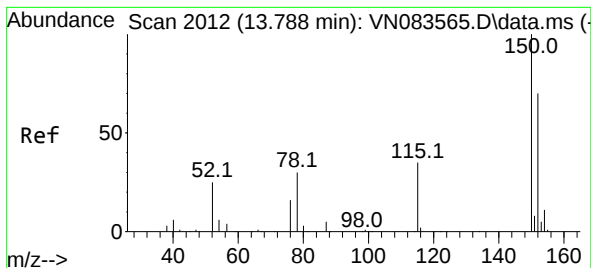
Tgt Ion: 95 Resp: 155672  
Ion Ratio Lower Upper  
95 100  
174 70.5 0.0 139.8  
176 66.7 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN083652.D  
Acq: 04 Sep 2024 16:18

Tgt Ion: 117 Resp: 328743  
Ion Ratio Lower Upper  
117 100  
82 58.7 47.4 71.0  
119 31.8 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN083652.D

Acq: 04 Sep 2024 16:18

Instrument :

MSVOA\_N

ClientSampleId :

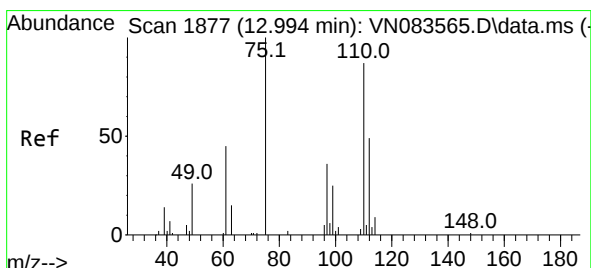
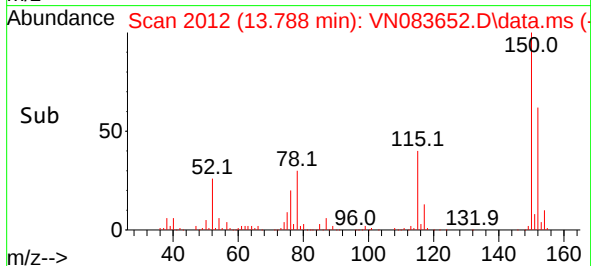
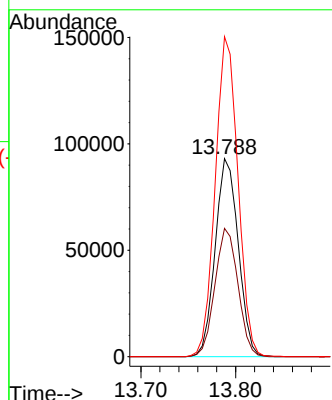
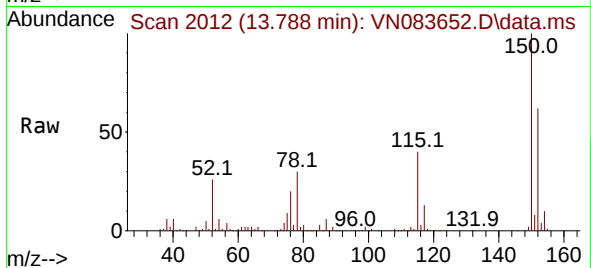
Tgt Ion:152 Resp: 157607

Ion Ratio Lower Upper

152 100

115 64.7 32.2 96.6

150 159.1 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 27.196 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083652.D

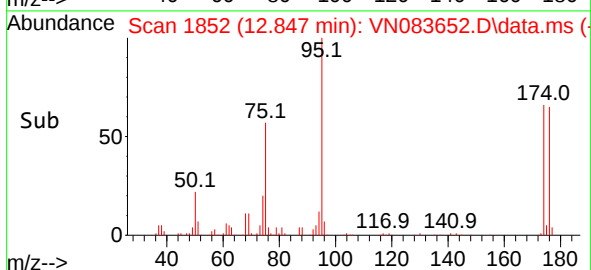
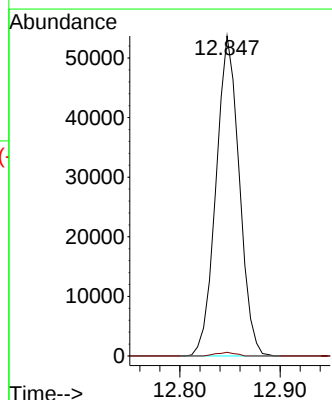
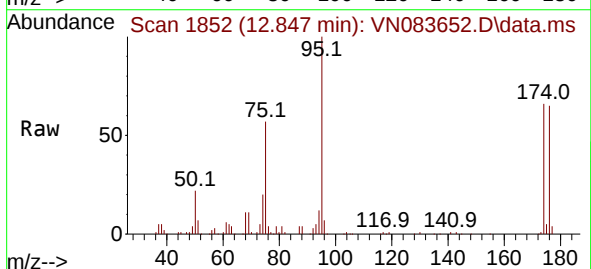
Acq: 04 Sep 2024 16:18

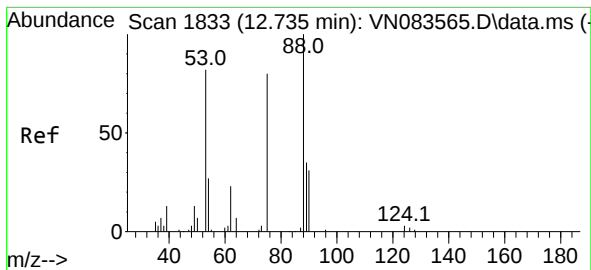
Tgt Ion: 75 Resp: 86539

Ion Ratio Lower Upper

75 100

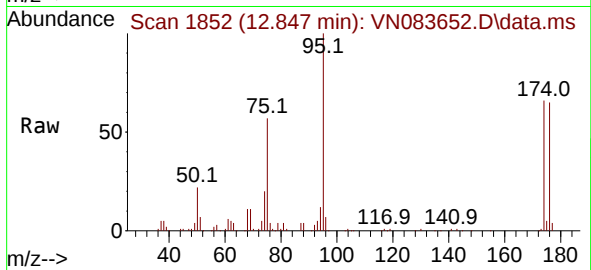
77 0.9 95.2 285.6#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.144 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN083652.D  
 Acq: 04 Sep 2024 16:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 86539  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 81.2 121.8#  
 89 0.0 35.7 53.5#

