

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087718.D  
 Acq On : 04 Sep 2025 13:35  
 Operator : JC\MD  
 Sample : Q3017-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-TB-20250903

Quant Time: Sep 05 02:20:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

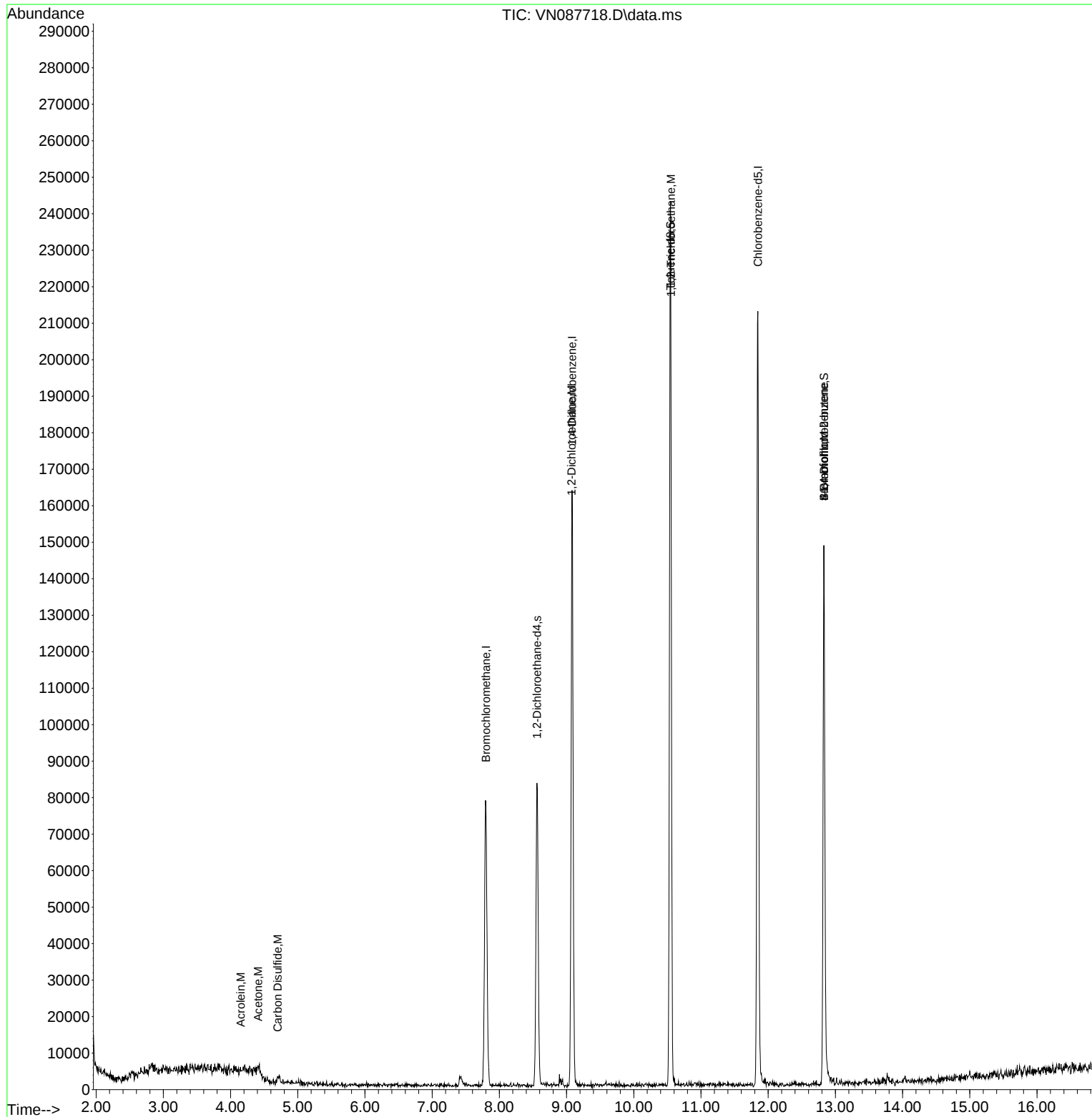
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.800  | 128   | 24981    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.082  | 114   | 130931   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.847 | 117   | 117412   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 69122    | 29.999   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 100.000% |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 51174    | 25.326   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 84.433%  |
| 63) Toluene-d8              | 10.547 | 98    | 164231   | 30.400   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 101.333% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 13) Acrolein                | 4.153  | 56    | 204      | 0.529    | ug/l   | 98       |
| 15) Acetone                 | 4.412  | 58    | 303      | 0.962    | ug/l # | 1        |
| 16) Carbon Disulfide        | 4.700  | 76    | 982      | 0.231    | ug/l # | 75       |
| 36) 1,2-Dichloroethane      | 9.077  | 62    | 5642     | 2.071    | ug/l # | 77       |
| 50) 1,1,2-Trichloroethane   | 10.553 | 97    | 5485     | 3.348    | ug/l # | 1        |
| 56) Bromoform               | 12.829 | 173   | 300      | 0.240    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.829 | 75    | 29865    | 33.354   | ug/l # | 3        |
| -----                       |        |       |          |          |        |          |

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

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Sample : Q3017-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

Quant Time: Sep 05 02:20:21 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

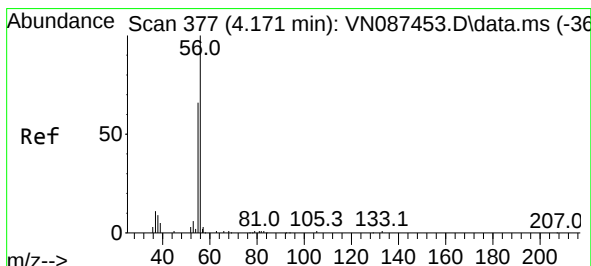
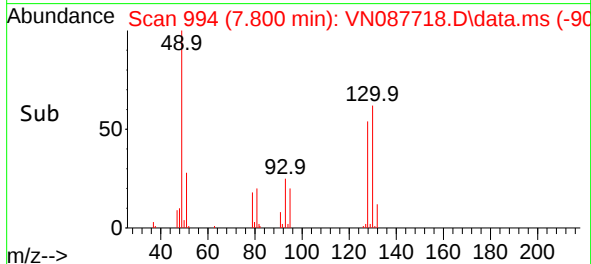
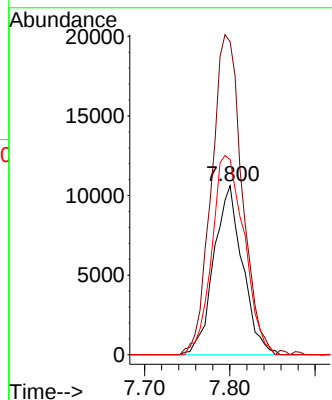
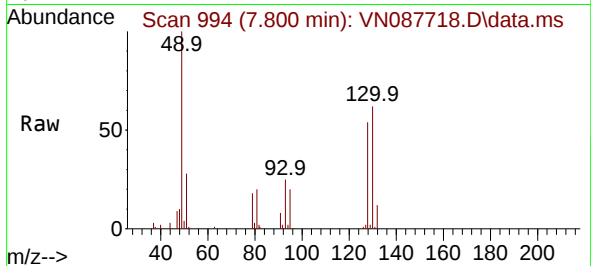




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

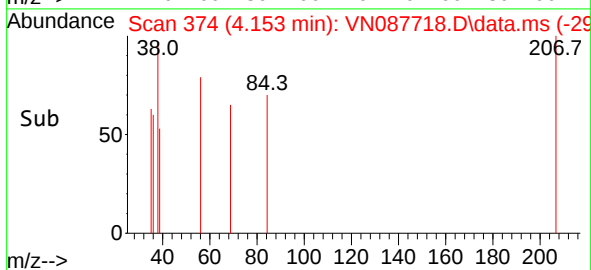
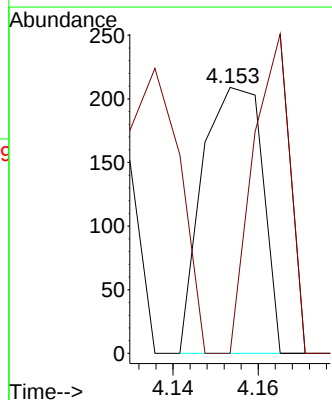
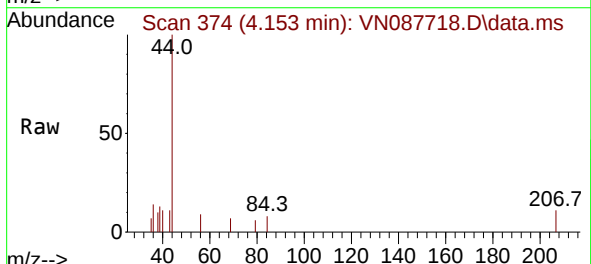
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MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

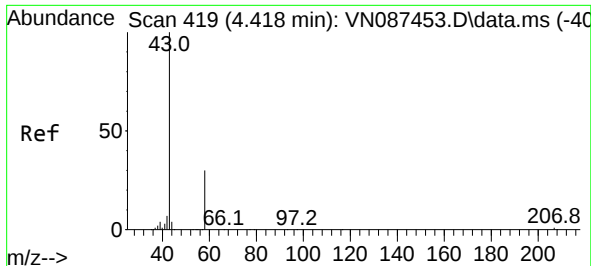
Tgt Ion:128 Resp: 24981  
Ion Ratio Lower Upper  
128 100  
49 200.7 0.0 494.8  
130 132.5 0.0 321.5



#13  
Acrolein  
Concen: 0.529 ug/l  
RT: 4.153 min Scan# 374  
Delta R.T. -0.018 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

Tgt Ion: 56 Resp: 204  
Ion Ratio Lower Upper  
56 100  
55 73.5 57.4 86.0

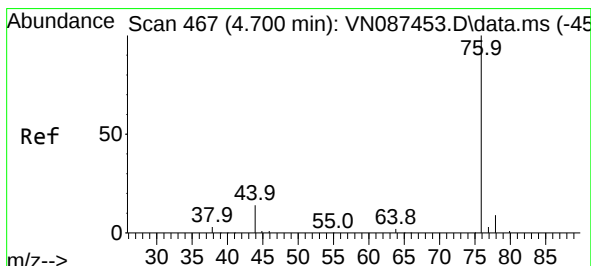
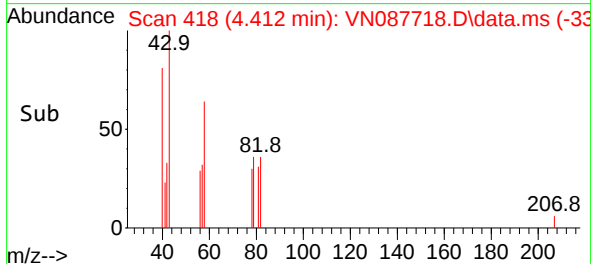
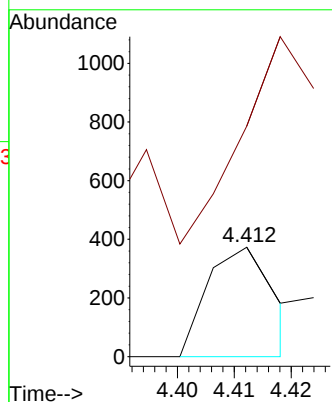
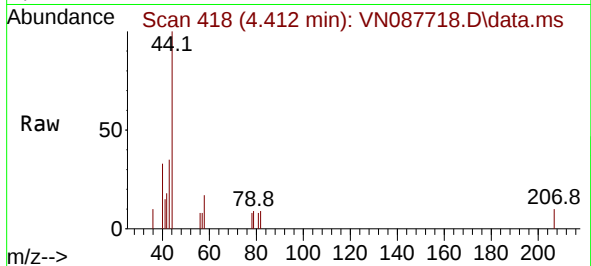




#15  
Acetone  
Concen: 0.962 ug/l  
RT: 4.412 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

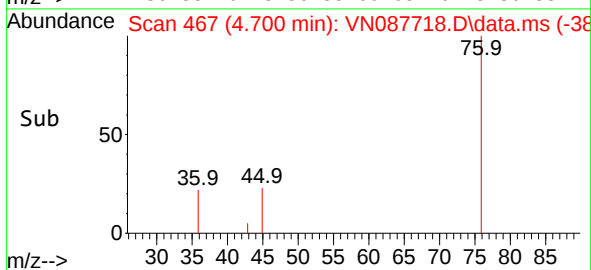
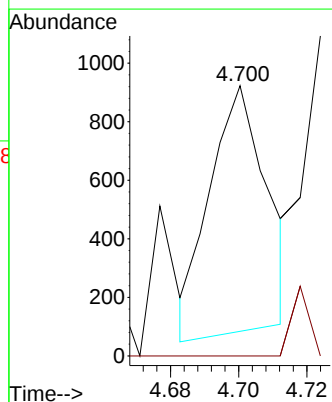
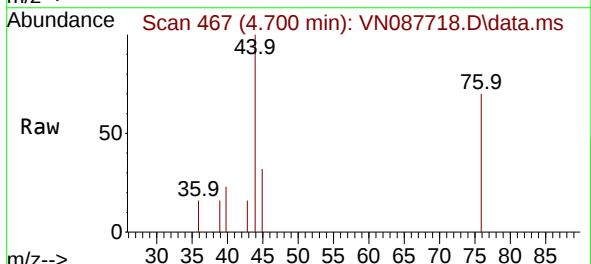
Instrument :  
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ClientSampleId :  
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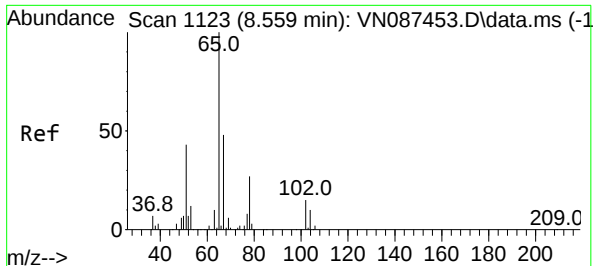
Tgt Ion: 58 Resp: 303  
Ion Ratio Lower Upper  
58 100  
43 107.8 268.9 403.3#



#16  
Carbon Disulfide  
Concen: 0.231 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

Tgt Ion: 76 Resp: 982  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.1 10.7#





#27

1,2-Dichloroethane-d4

Concen: 29.999 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

Instrument :

MSVOA\_N

ClientSampleId :

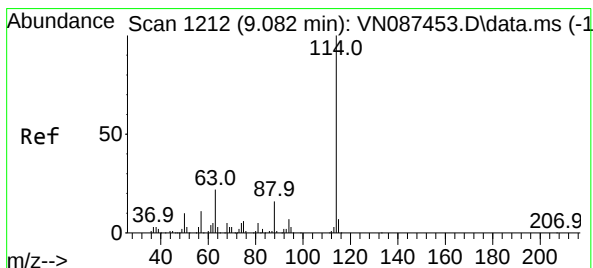
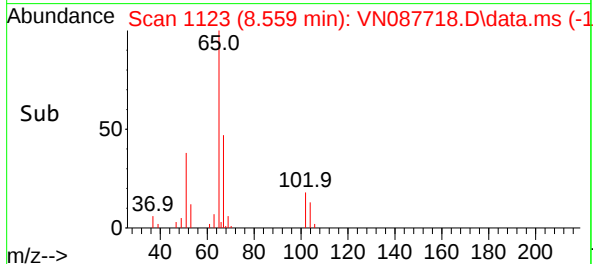
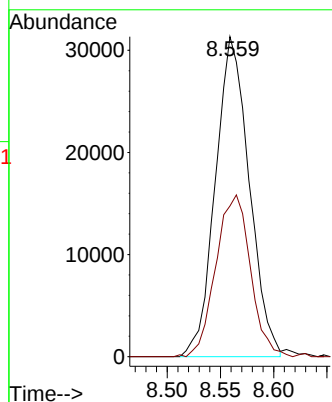
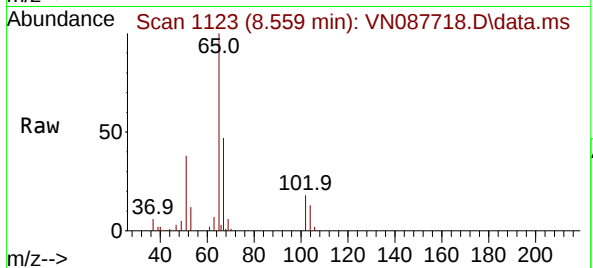
BP-TB-20250903

Tgt Ion: 65 Resp: 69122

Ion Ratio Lower Upper

65 100

67 51.6 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

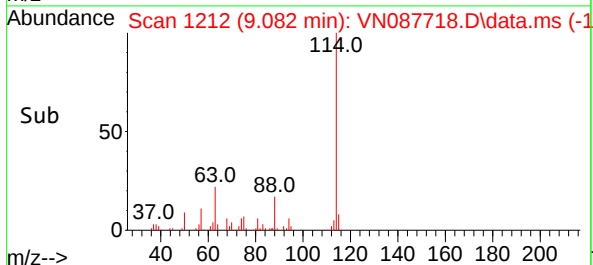
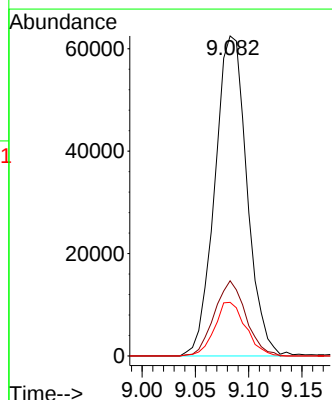
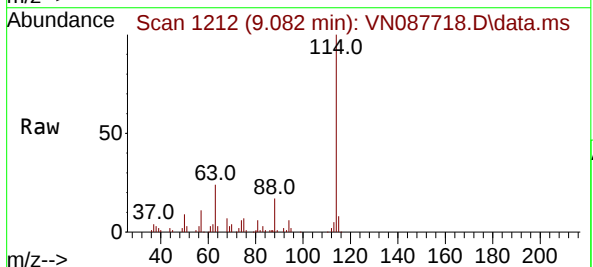
Tgt Ion: 114 Resp: 130931

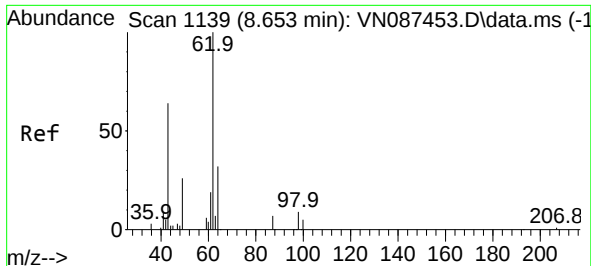
Ion Ratio Lower Upper

114 100

63 23.0 18.9 28.3

88 16.2 13.1 19.7





#36

1,2-Dichloroethane

Concen: 2.071 ug/l

RT: 9.077 min Scan# 1139

Delta R.T. 0.424 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

Instrument :

MSVOA\_N

ClientSampleId :

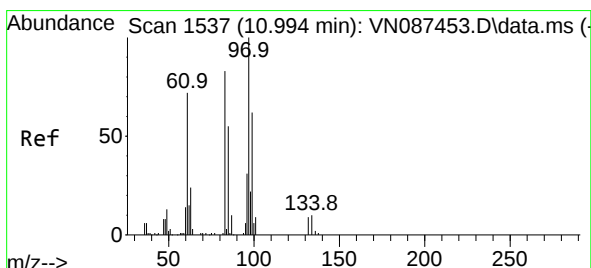
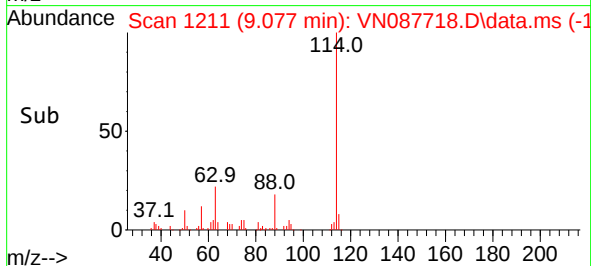
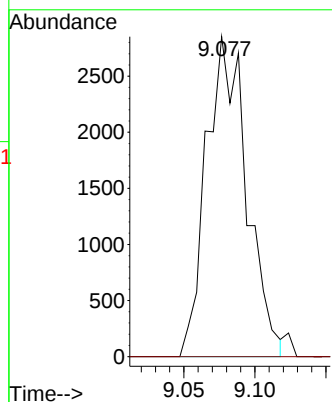
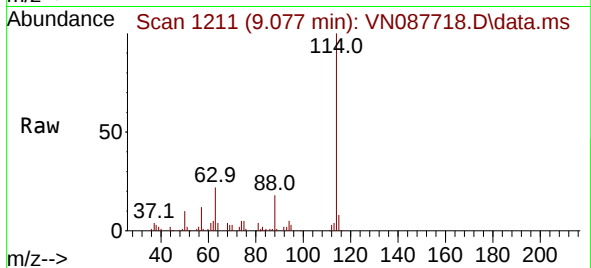
BP-TB-20250903

Tgt Ion: 62 Resp: 5642

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#50

1,1,2-Trichloroethane

Concen: 3.348 ug/l

RT: 10.553 min Scan# 1462

Delta R.T. -0.441 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

Tgt Ion: 97 Resp: 5485

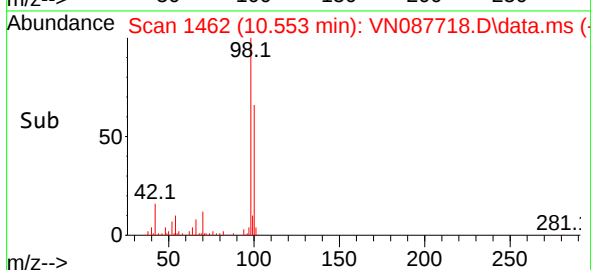
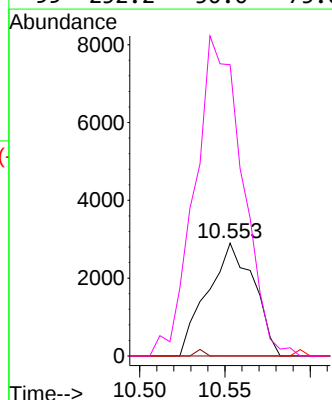
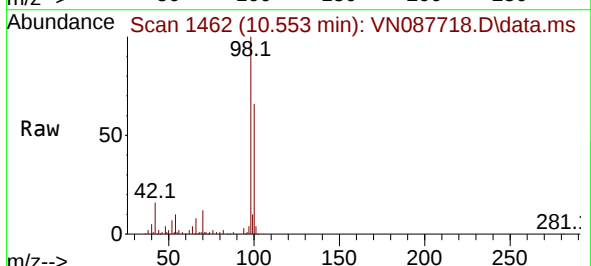
Ion Ratio Lower Upper

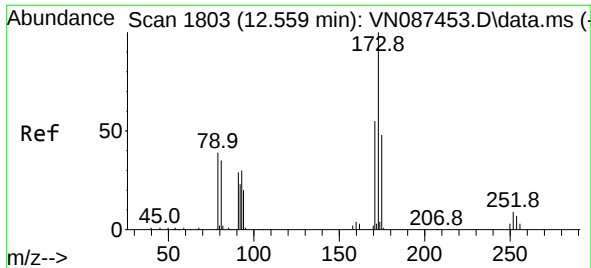
97 100

83 0.0 66.2 99.2#

85 0.0 43.9 65.9#

99 252.2 50.0 75.0#

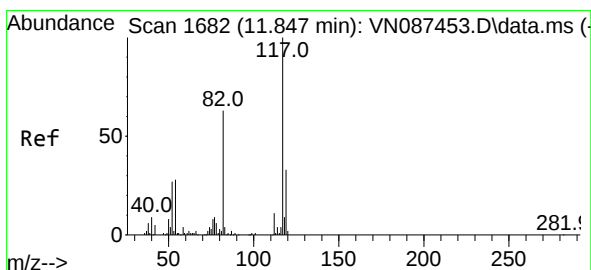
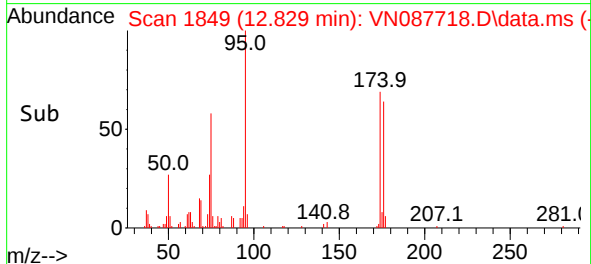
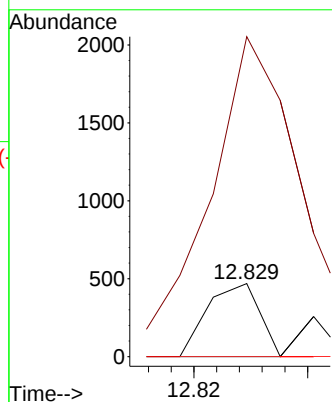
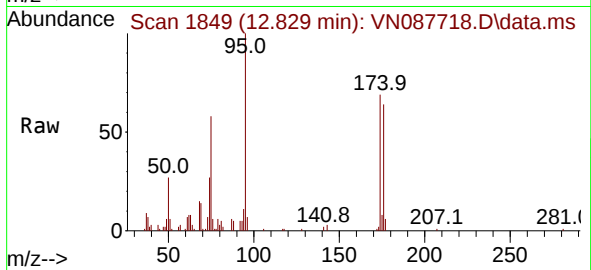




#56  
Bromoform  
Concen: 0.240 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.271 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

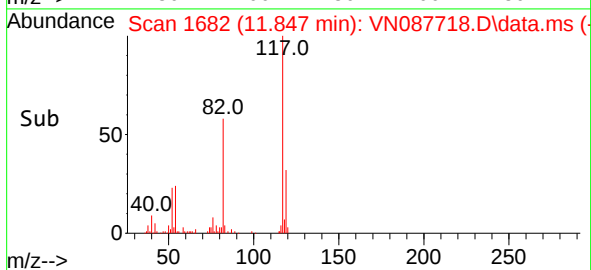
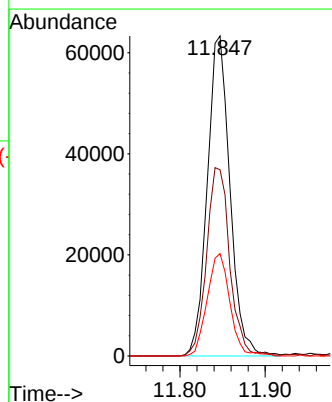
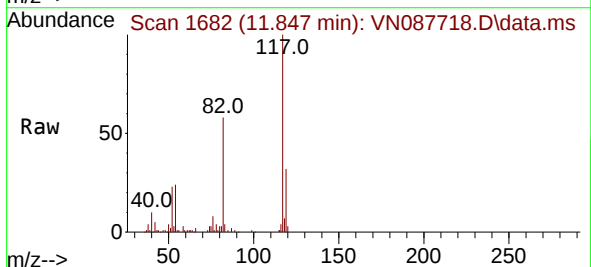
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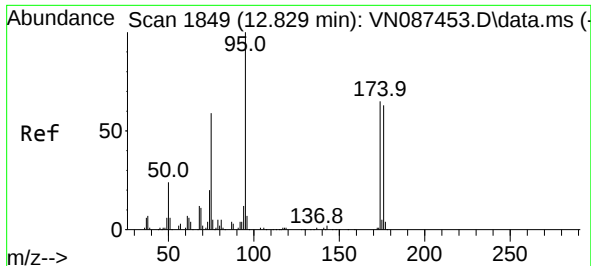
Tgt Ion:173 Resp: 300  
Ion Ratio Lower Upper  
173 100  
175 746.3 38.8 58.2#  
254 0.0 3.9 5.9#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

Tgt Ion:117 Resp: 117412  
Ion Ratio Lower Upper  
117 100  
82 59.5 49.2 73.8  
119 31.5 25.7 38.5

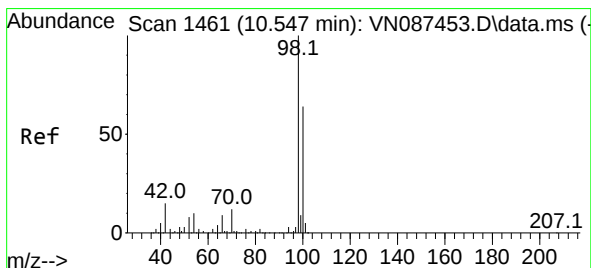
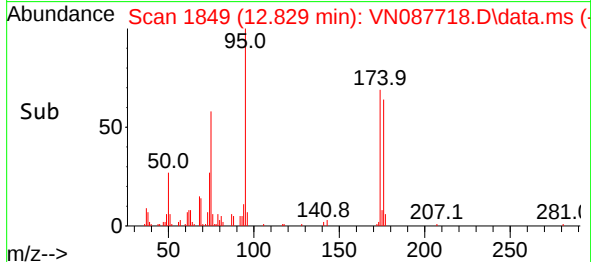
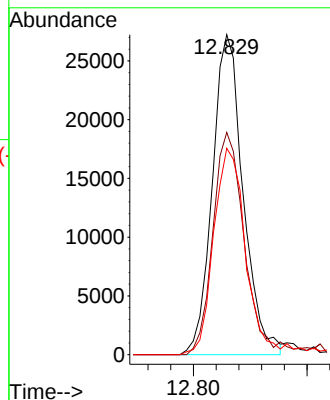
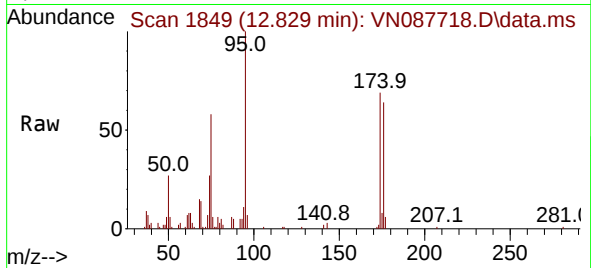




#60  
4-Bromofluorobenzene  
Concen: 25.326 ug/l  
RT: 12.829 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

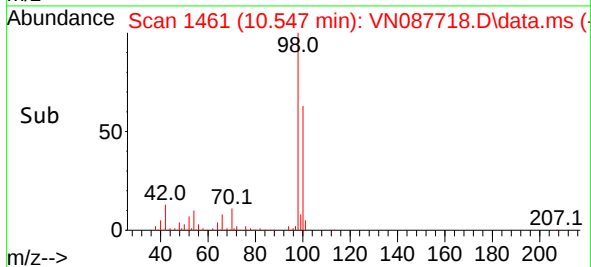
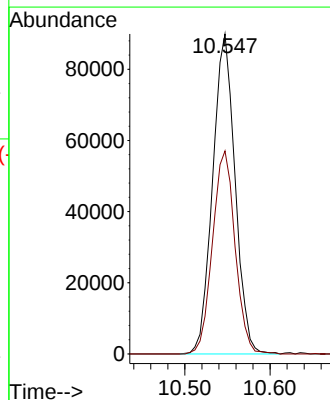
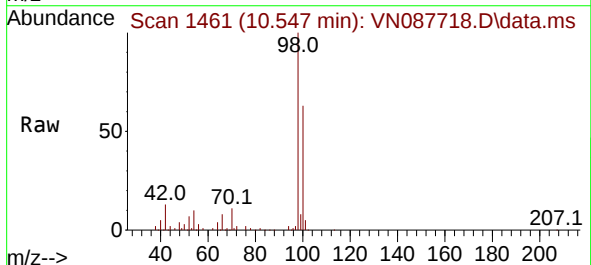
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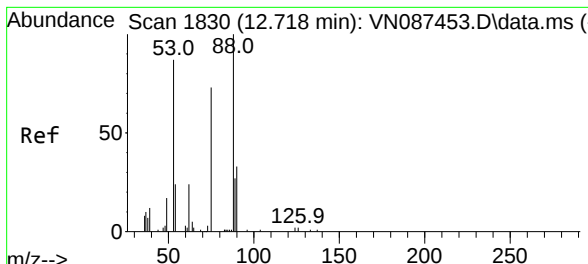
Tgt Ion: 95 Resp: 51174  
Ion Ratio Lower Upper  
95 100  
174 69.4 52.3 78.5  
176 66.0 49.8 74.8



#63  
Toluene-d8  
Concen: 30.400 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

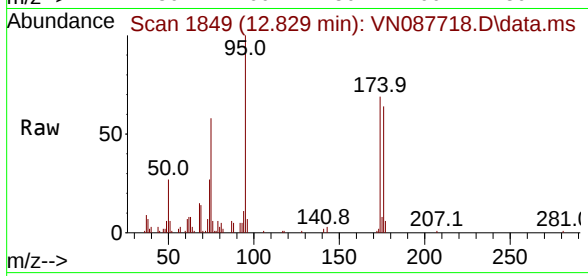
Tgt Ion: 98 Resp: 164231  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.5 75.7





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 33.354 ug/l  
 RT: 12.829 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN087718.D  
 Acq: 04 Sep 2025 13:35

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-TB-20250903



Tgt Ion: 75 Resp: 29865

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 53  | 0.0   | 59.0  | 176.8# |
| 89  | 0.0   | 22.1  | 66.5#  |

