

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052925\  
 Data File : VN086805.D  
 Acq On : 29 May 2025 10:32  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: May 30 02:41:11 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N052925W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri May 30 02:22:52 2025  
 Response via : Initial Calibration

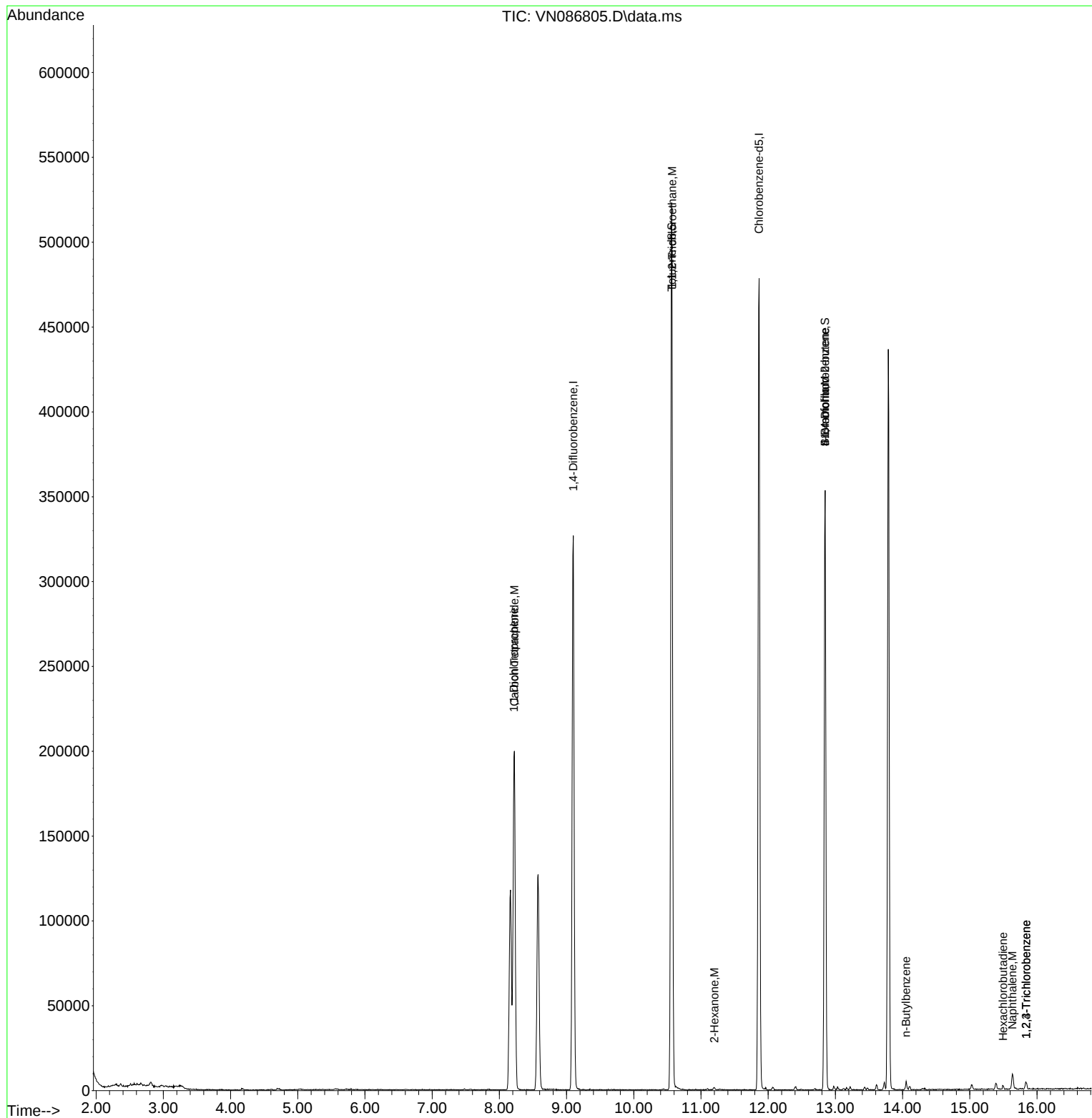
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 0.000  | 128   | 0        | 0.000    | ug/l   | -7.81    |
| 28) 1,4-Difluorobenzene     | 9.100  | 114   | 295919   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 291535   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.571  | 65    | 104931   | 0.000    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 0.000%#  |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 138555   | 30.271   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 100.900% |
| 63) Toluene-d8              | 10.565 | 98    | 381970   | 28.546   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 95.167%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 29) 1,1-Dichloropropene     | 8.218  | 75    | 11784    | 2.708    | ug/l # | 47       |
| 33) Carbon Tetrachloride    | 8.224  | 117   | 15003    | 3.480    | ug/l # | 15       |
| 50) 1,1,2-Trichloroethane   | 10.570 | 97    | 12402    | 3.950    | ug/l # | 1        |
| 56) Bromoform               | 12.847 | 173   | 529      | 0.237    | ug/l # | 1        |
| 59) 2-Hexanone              | 11.200 | 43    | 1090     | 0.356    | ug/l # | 86       |
| 77) t-1,4-Dichloro-2-butene | 12.847 | 75    | 64220    | 35.058   | ug/l # | 14       |
| 85) n-Butylbenzene          | 14.053 | 91    | 3396     | 0.307    | ug/l   | 94       |
| 89) 1,2,4-Trichlorobenzene  | 15.841 | 180   | 1997     | 0.675    | ug/l # | 82       |
| 90) Hexachlorobutadiene     | 15.494 | 225   | 490      | 0.387    | ug/l   | 83       |
| 91) Naphthalene             | 15.635 | 128   | 9989     | 0.968    | ug/l   | 97       |
| 92) 1,2,3-Trichlorobenzene  | 15.841 | 180   | 1997     | 0.675    | ug/l   | 82       |
| -----                       |        |       |          |          |        |          |

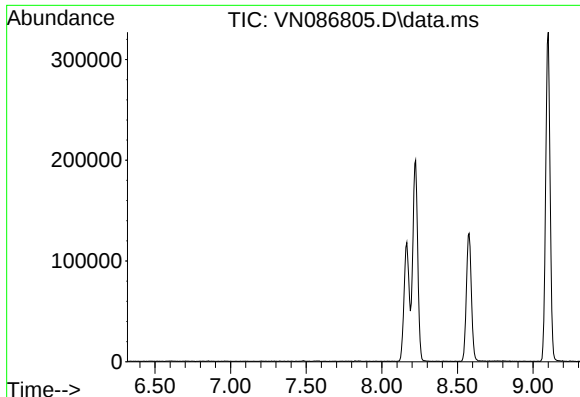
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 30 02:22:52 2025  
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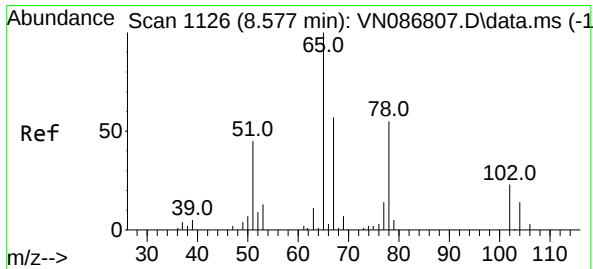
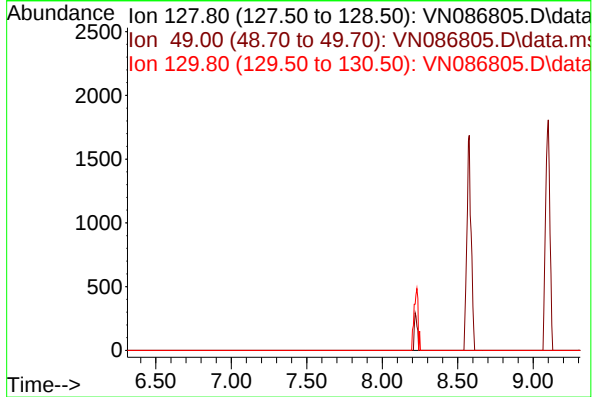


#1  
 Bromochloromethane  
 Concen: 0.000 ug/l  
 Expected RT: 7.81 min  
 Lab File: VN086805.D  
 Acq: 29 May 2025 10:32

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Tgt Ion: 128  

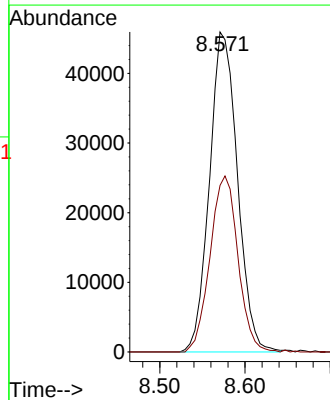
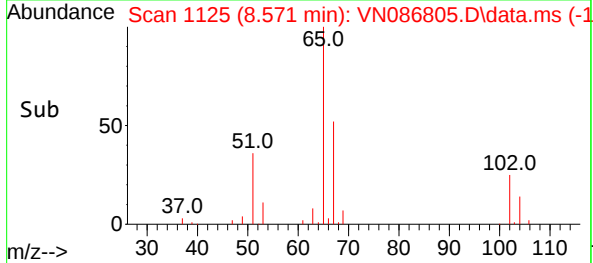
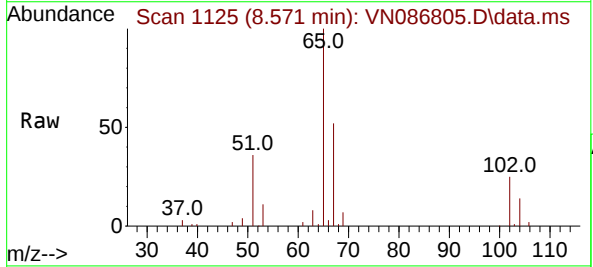
| Sig | Exp Ratio |
|-----|-----------|
| 128 | 100       |
| 49  | 161.8     |
| 130 | 128.9     |

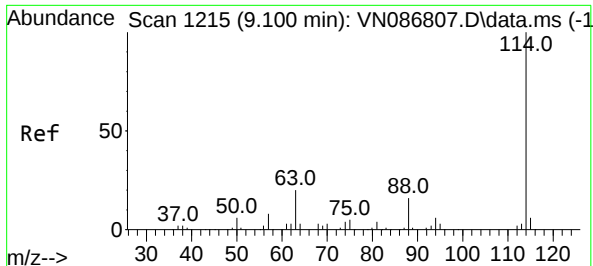


#27  
 1,2-Dichloroethane-d4  
 Concen: 0.000 ug/l  
 RT: 8.571 min Scan# 1125  
 Delta R.T. -0.006 min  
 Lab File: VN086805.D  
 Acq: 29 May 2025 10:32

Tgt Ion: 65 Resp: 104931  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 54.8  | 44.6  | 67.0  |





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

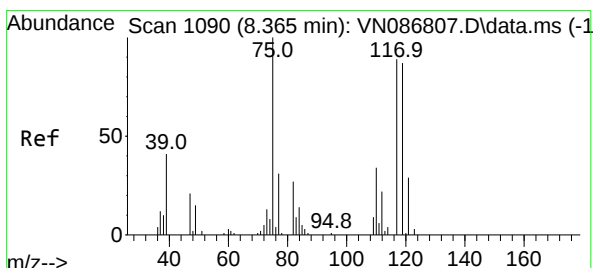
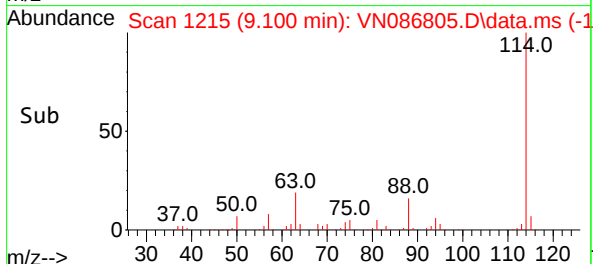
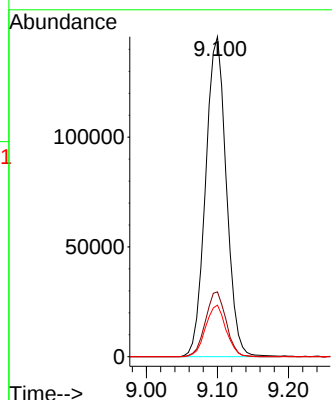
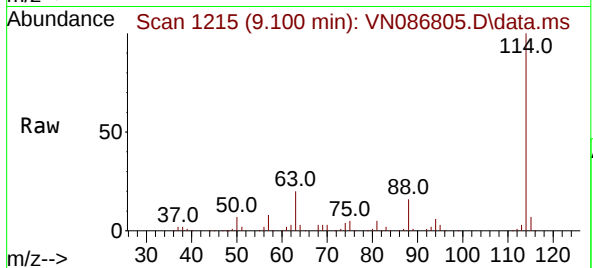
Tgt Ion:114 Resp: 295919

Ion Ratio Lower Upper

114 100

63 20.2 15.8 23.8

88 15.9 12.9 19.3



#29

1,1-Dichloropropene

Concen: 2.708 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

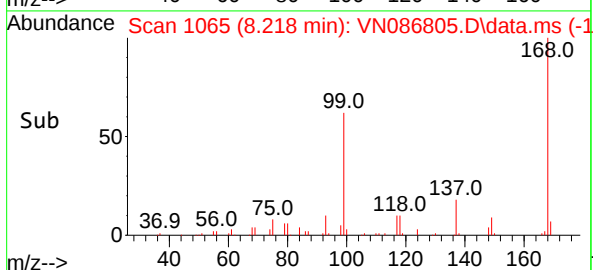
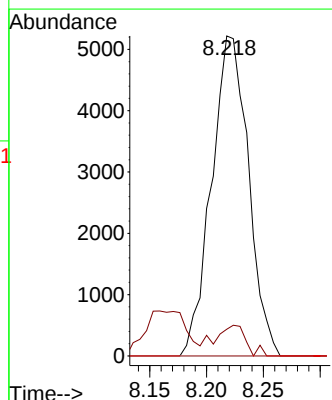
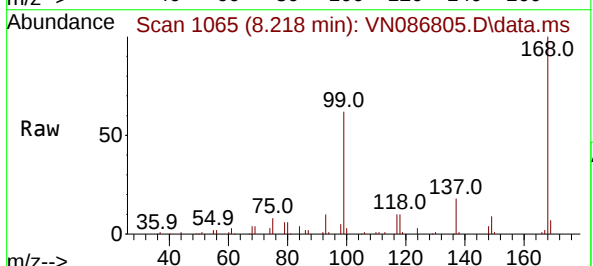
Tgt Ion: 75 Resp: 11784

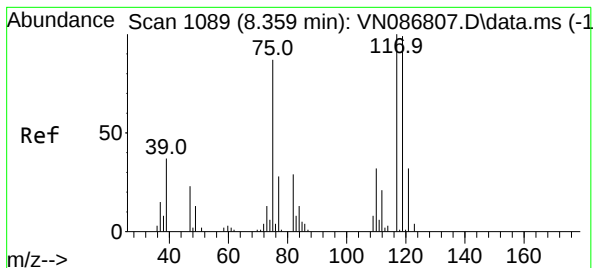
Ion Ratio Lower Upper

75 100

110 6.0 0.0 71.0

77 0.0 0.0 62.4





#33

Carbon Tetrachloride

Concen: 3.480 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN086805.D

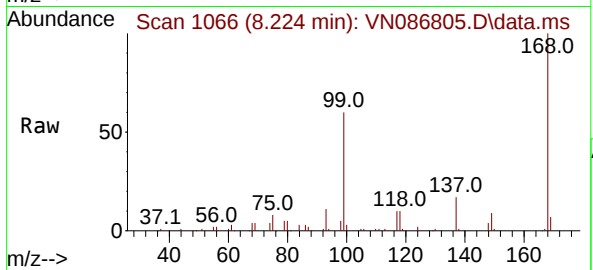
Acq: 29 May 2025 10:32

Instrument :

MSVOA\_N

ClientSampleId :

IBLK



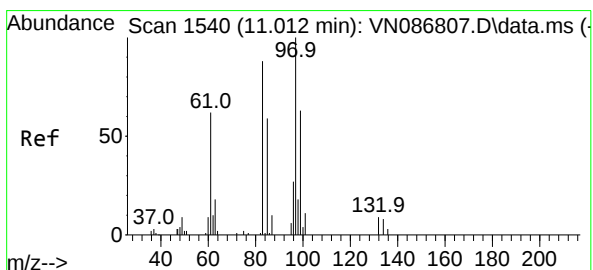
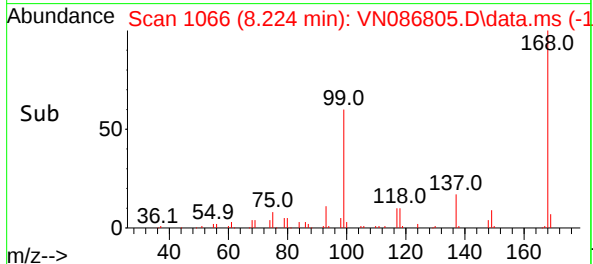
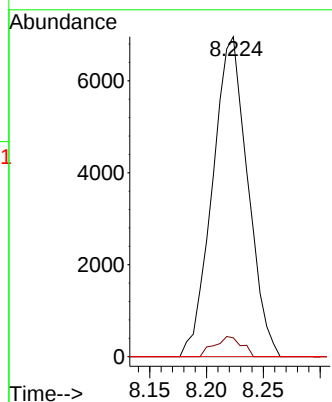
Tgt Ion:117 Resp: 15003

Ion Ratio Lower Upper

117 100

119 5.9 79.2 118.8#

121 0.0 25.6 38.4#



#50

1,1,2-Trichloroethane

Concen: 3.950 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.441 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

Tgt Ion: 97 Resp: 12402

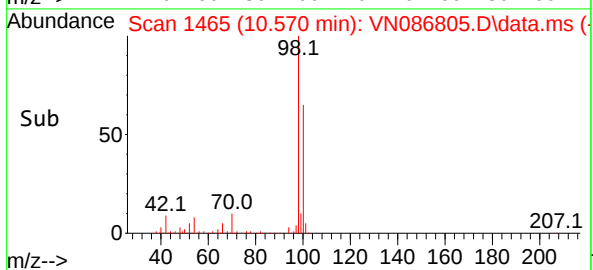
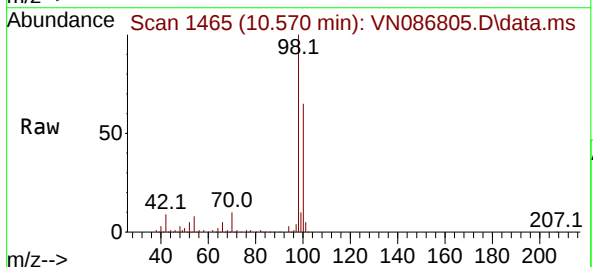
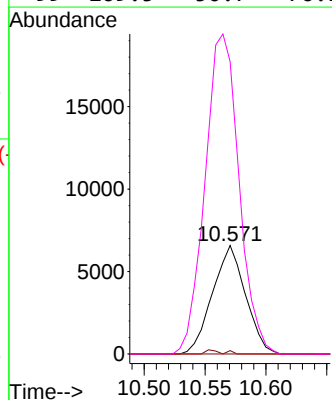
Ion Ratio Lower Upper

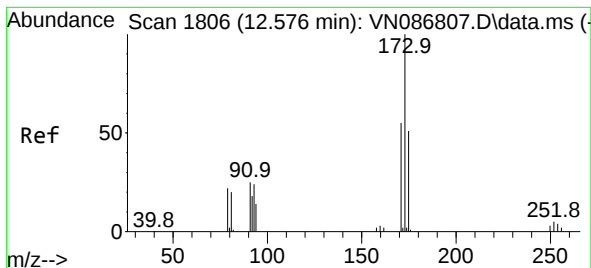
97 100

83 3.1 70.6 105.8#

85 0.0 46.8 70.2#

99 269.5 50.7 76.1#





#56

Bromoform

Concen: 0.237 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.270 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

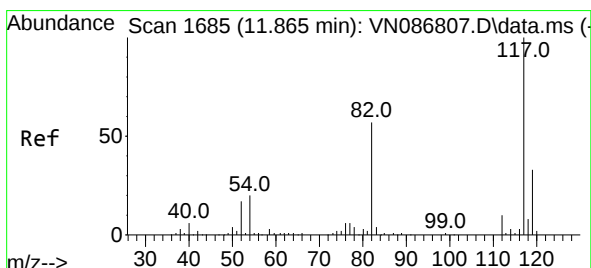
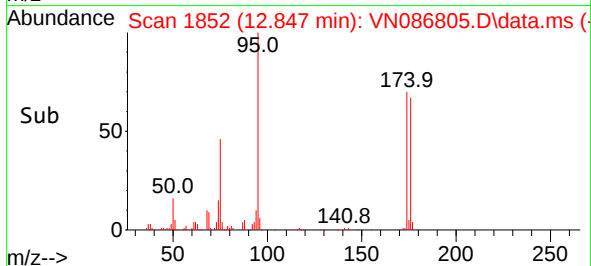
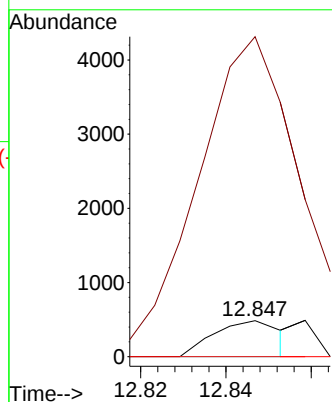
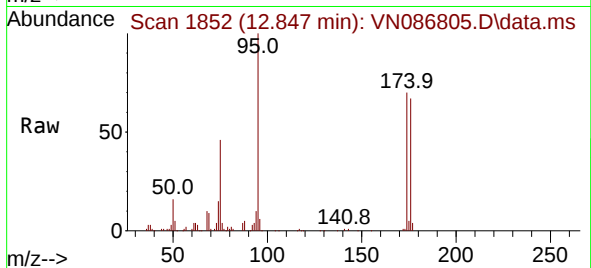
Instrument :

MSVOA\_N

ClientSampleId :

IBLK

|           |        |       |       |
|-----------|--------|-------|-------|
| Tgt Ion:  | 173    | Resp: | 529   |
| Ion Ratio | Lower  | Upper |       |
| 173       | 100    |       |       |
| 175       | 1369.0 | 39.7  | 59.5# |
| 254       | 0.0    | 3.5   | 5.3#  |



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

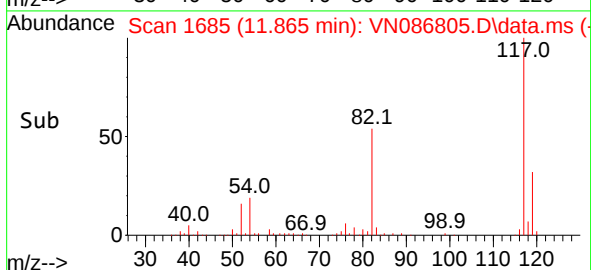
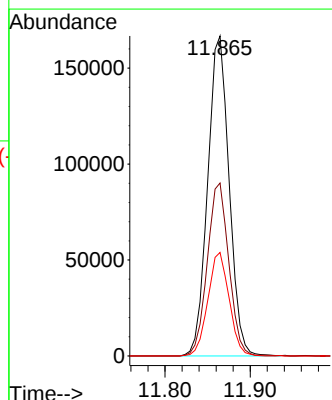
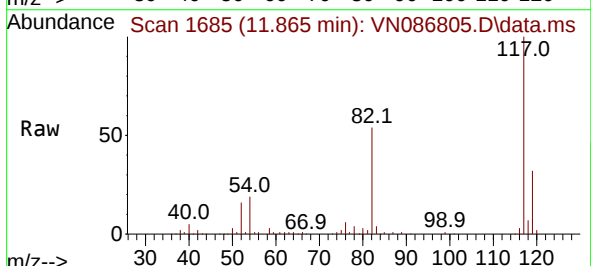
RT: 11.865 min Scan# 1685

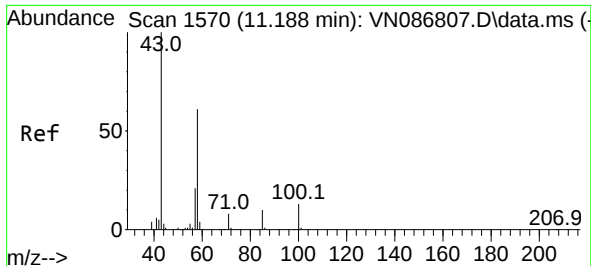
Delta R.T. -0.000 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 291535 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 54.2  | 44.7  | 67.1   |
| 119       | 32.1  | 25.6  | 38.4   |

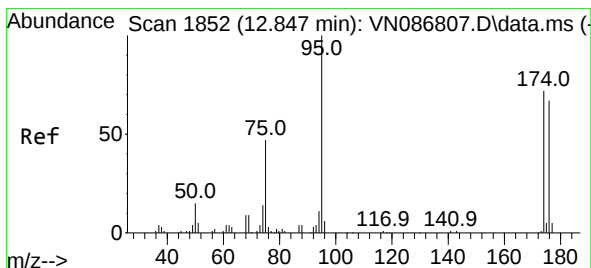
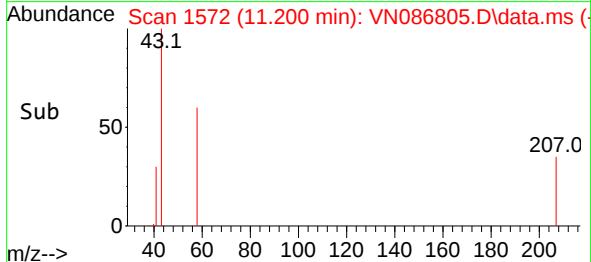
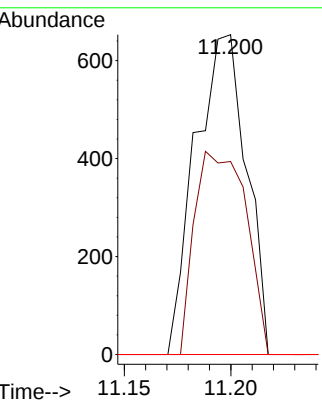
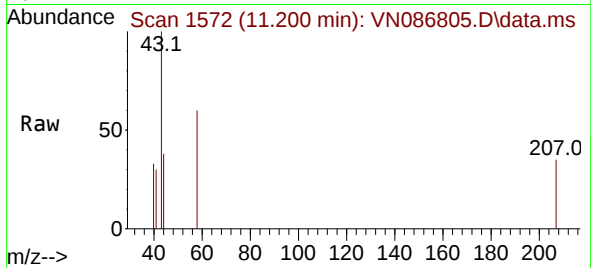




#59  
2-Hexanone  
Concen: 0.356 ug/l  
RT: 11.200 min Scan# 1570  
Delta R.T. 0.012 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

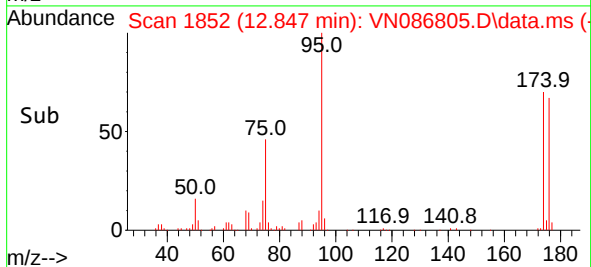
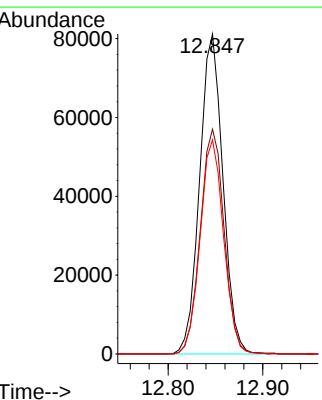
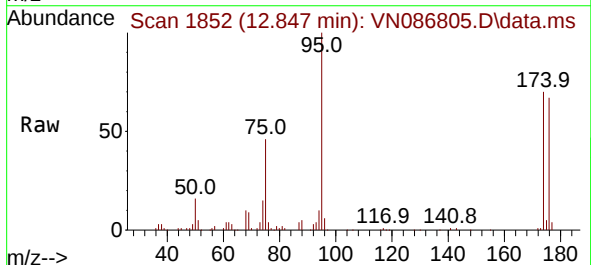
Instrument :  
MSVOA\_N  
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IBLK

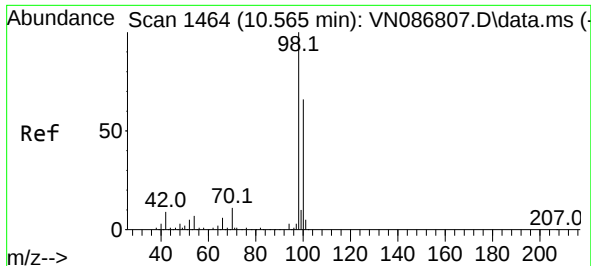
Tgt Ion: 43 Resp: 1090  
Ion Ratio Lower Upper  
43 100  
58 64.1 49.1 73.7  
57 0.0 16.6 25.0#



#60  
4-Bromofluorobenzene  
Concen: 30.271 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

Tgt Ion: 95 Resp: 138555  
Ion Ratio Lower Upper  
95 100  
174 71.6 56.2 84.4  
176 67.7 53.4 80.0

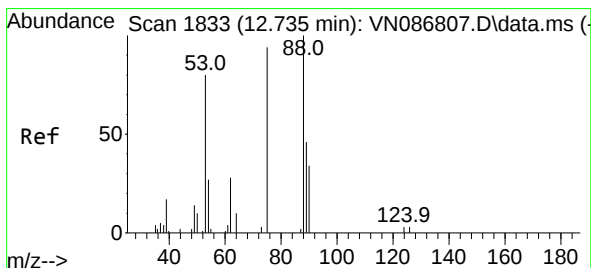
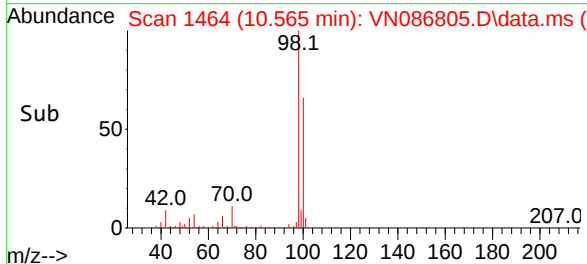
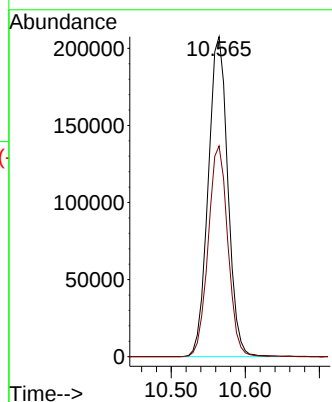
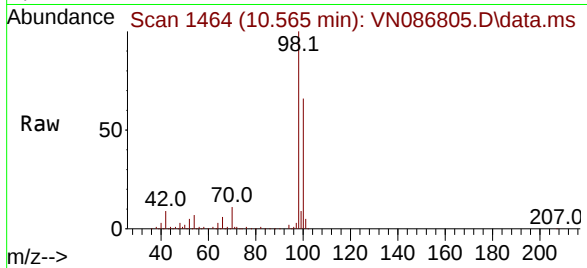




#63  
Toluene-d8  
Concen: 28.546 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

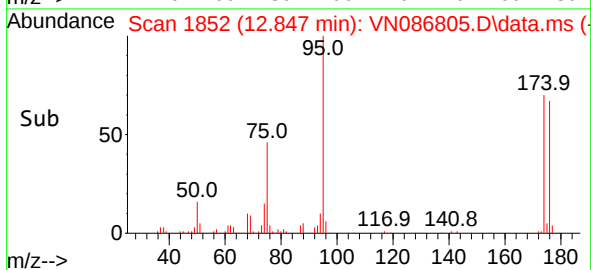
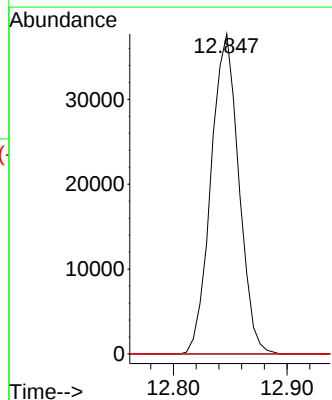
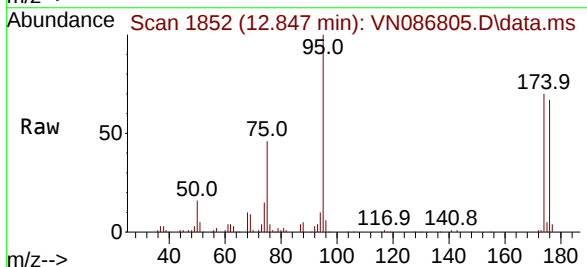
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MSVOA\_N  
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IBLK

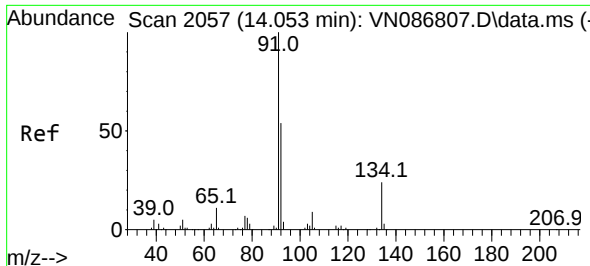
Tgt Ion: 98 Resp: 381970  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.7 79.1



#77  
t-1,4-Dichloro-2-butene  
Concen: 35.058 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

Tgt Ion: 75 Resp: 64220  
Ion Ratio Lower Upper  
75 100  
53 0.0 43.0 128.8#  
89 0.0 25.4 76.2#

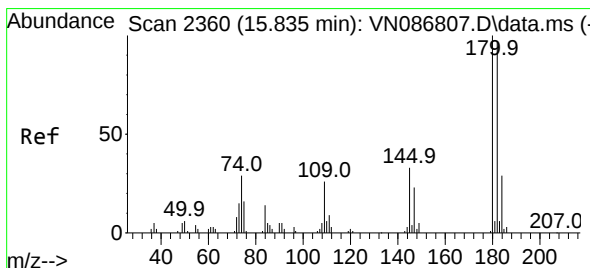
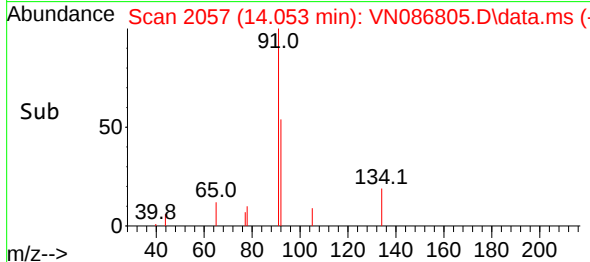
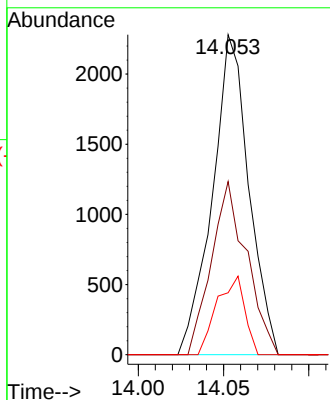
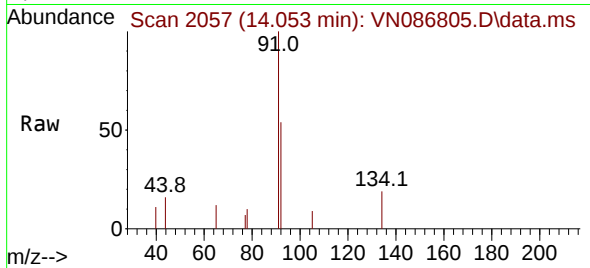




#85  
n-Butylbenzene  
Concen: 0.307 ug/l  
RT: 14.053 min Scan# 2057  
Delta R.T. -0.000 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

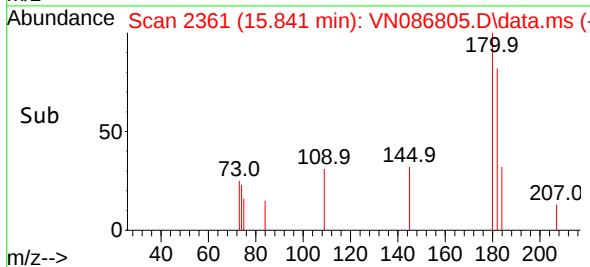
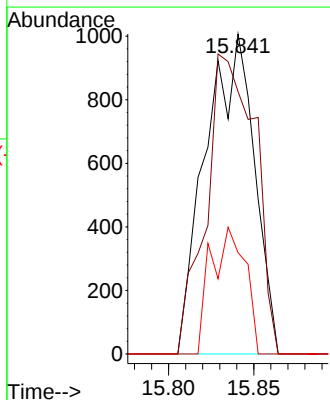
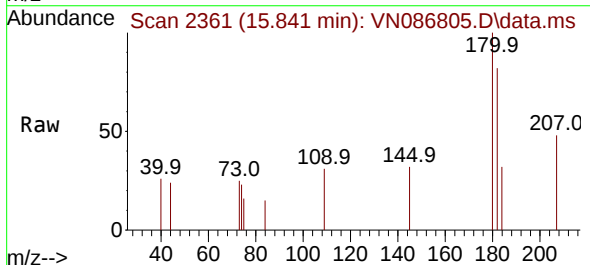
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

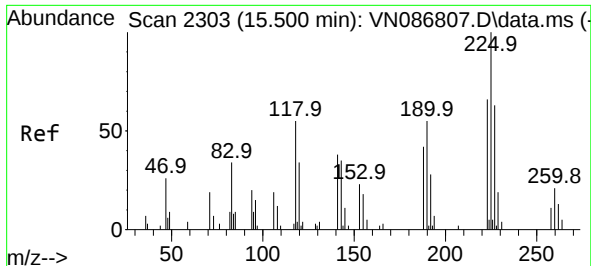
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 3396  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 52.2  | 0.0   | 107.6 |
| 134      | 18.7  | 0.0   | 50.0  |



#89  
1,2,4-Trichlorobenzene  
Concen: 0.675 ug/l  
RT: 15.841 min Scan# 2361  
Delta R.T. 0.006 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 1997   |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 77.8  | 78.2  | 117.2# |
| 145      | 28.0  | 28.0  | 42.0   |

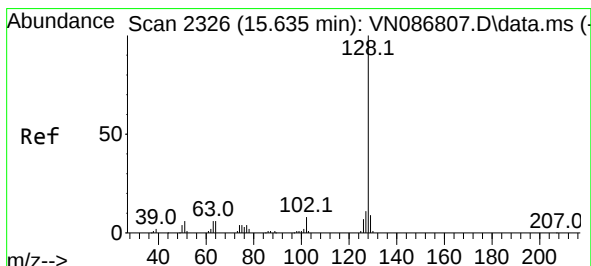
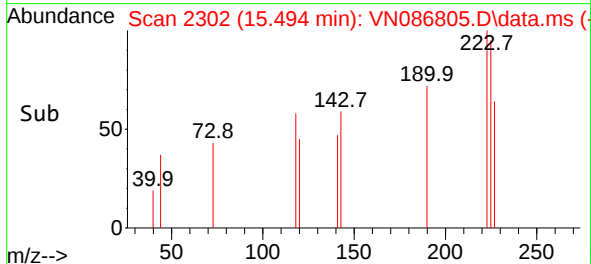
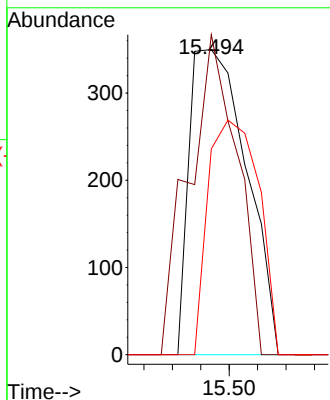
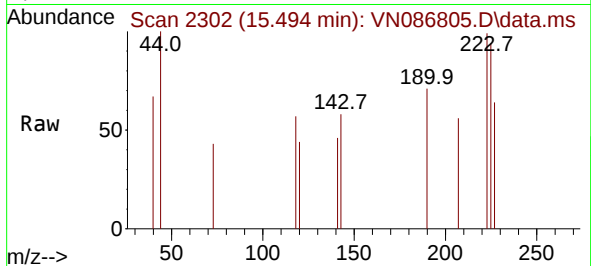




#90  
Hexachlorobutadiene  
Concen: 0.387 ug/l  
RT: 15.494 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

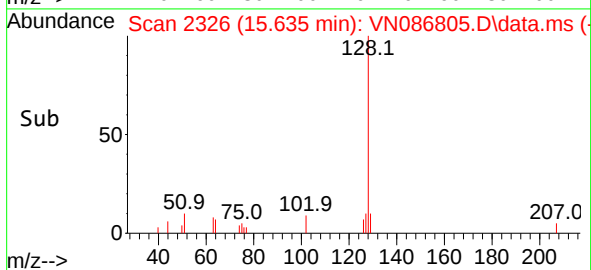
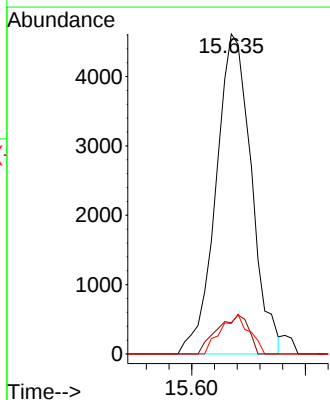
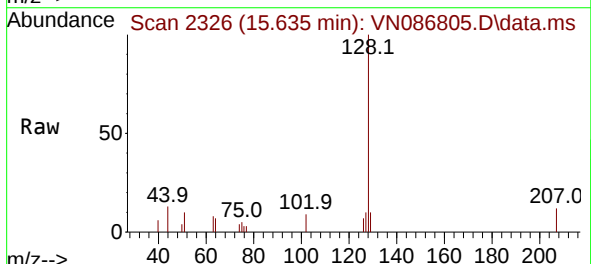
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

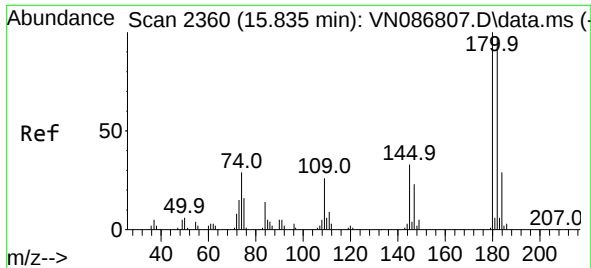
Tgt Ion:225 Resp: 490  
Ion Ratio Lower Upper  
225 100  
223 88.8 0.0 135.8  
227 68.0 0.0 125.0



#91  
Naphthalene  
Concen: 0.968 ug/l  
RT: 15.635 min Scan# 2326  
Delta R.T. -0.000 min  
Lab File: VN086805.D  
Acq: 29 May 2025 10:32

Tgt Ion:128 Resp: 9989  
Ion Ratio Lower Upper  
128 100  
127 10.8 9.8 14.6  
129 9.9 8.6 13.0





#92

1,2,3-Trichlorobenzene

Concen: 0.675 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086805.D

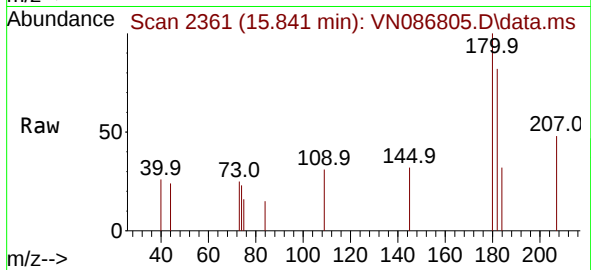
Acq: 29 May 2025 10:32

Instrument :

MSVOA\_N

ClientSampleId :

IBLK



Tgt Ion:180 Resp: 1997

Ion Ratio Lower Upper

180 100

182 77.8 0.0 195.4

145 28.0 0.0 70.0

