

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122024\  
 Data File : VN085277.D  
 Acq On : 20 Dec 2024 12:06  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Dec 21 02:21:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N122024W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Dec 21 02:03:07 2024  
 Response via : Initial Calibration

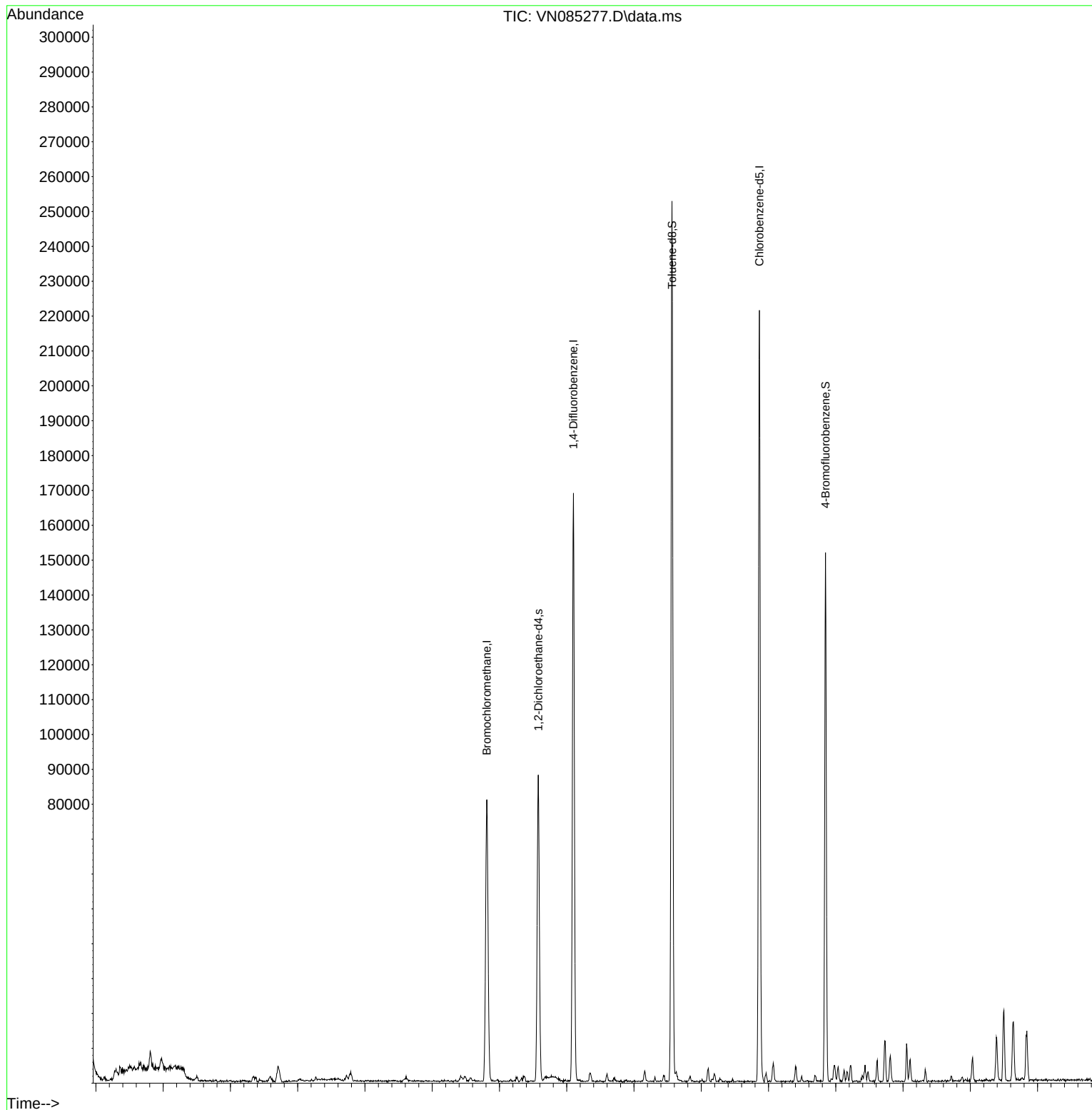
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.812  | 128   | 26884    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 9.100  | 114   | 134373   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.865 | 117   | 122041   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 8.577  | 65    | 73022    | 30.877   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 102.933% |
| 60) 4-Bromofluorobenzene      | 12.847 | 95    | 49215    | 24.895   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 83.000%  |
| 63) Toluene-d8                | 10.565 | 98    | 168668   | 28.304   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 94.333%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 2.965  | 94    | 1977     | 1.468    | ug/l   | 98       |
| 11) Methyl Iodide             | 4.589  | 142   | 2373     | 1.192    | ug/l   | 79       |
| 16) Carbon Disulfide          | 4.706  | 76    | 9986     | 1.978    | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.159 | 63    | 1331     | 0.999    | ug/l # | 67       |
| 83) 1,3-Dichlorobenzene       | 13.735 | 146   | 3168     | 0.971    | ug/l   | 91       |
| 84) 1,4-Dichlorobenzene       | 13.812 | 146   | 3584     | 1.136    | ug/l   | 93       |
| 85) n-Butylbenzene            | 14.053 | 91    | 6305     | 1.243    | ug/l   | 92       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.712 | 75    | 704      | 1.536    | ug/l # | 56       |
| 89) 1,2,4-Trichlorobenzene    | 15.394 | 180   | 4453     | 3.033    | ug/l   | 96       |
| 90) Hexachlorobutadiene       | 15.500 | 225   | 3769     | 5.151    | ug/l   | 93       |
| 91) Naphthalene               | 15.635 | 128   | 17391    | 3.687    | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.841 | 180   | 5766m    | 3.928    | ug/l   |          |
| -----                         |        |       |          |          |        |          |

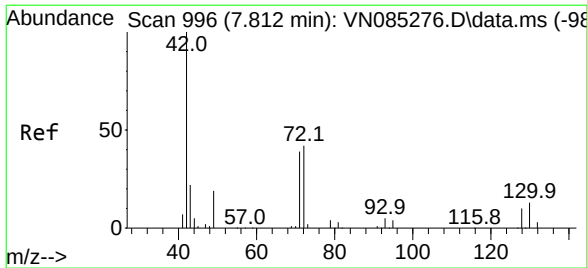
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122024\  
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Instrument :  
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ClientSampleId :  
IBLK

Quant Time: Dec 21 02:21:08 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N122024W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Dec 21 02:03:07 2024  
Response via : Initial Calibration

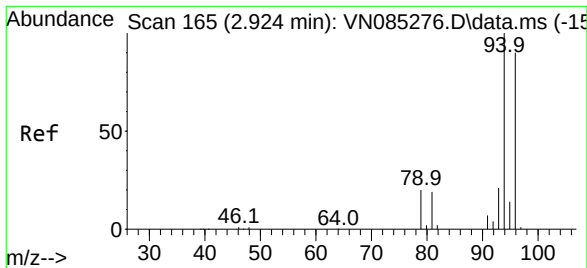
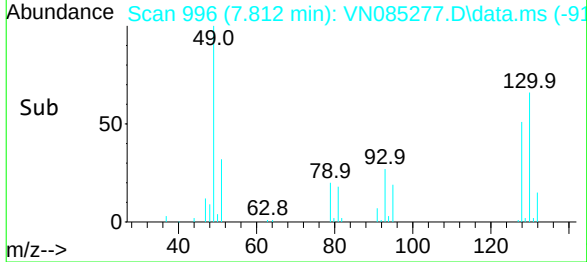
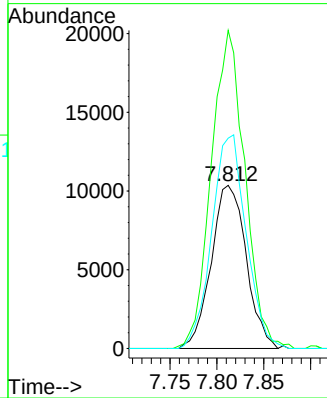
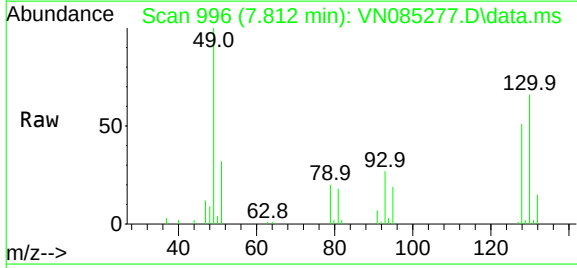




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 99  
Delta R.T. 0.000 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

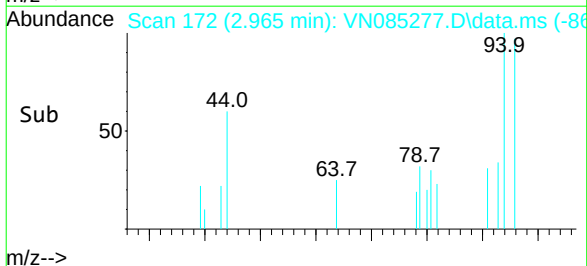
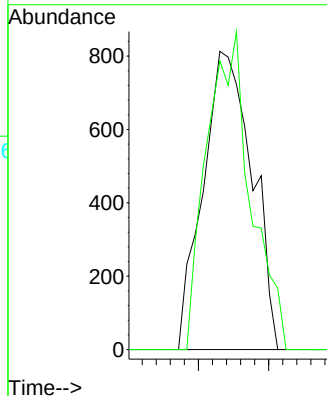
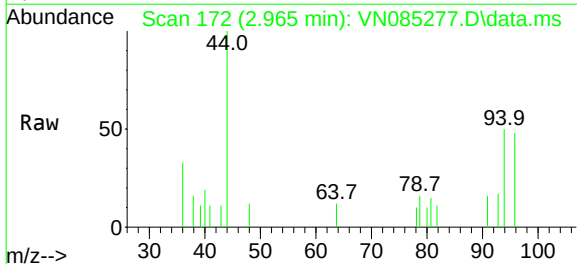
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

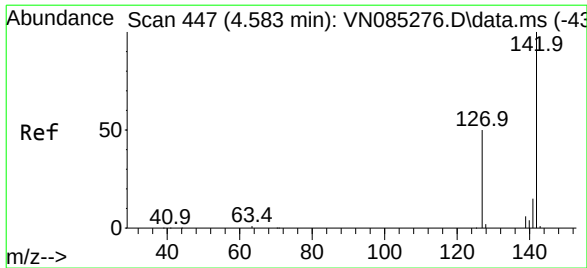
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 26884 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 187.3 | 0.0   | 497.8 |
| 130      | 129.0 | 0.0   | 328.5 |



#5  
Bromomethane  
Concen: 1.468 ug/l  
RT: 2.965 min Scan# 172  
Delta R.T. 0.006 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 1977  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 96       | 96.8  | 75.6  | 113.4 |

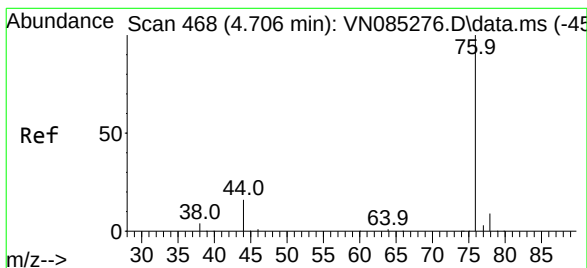
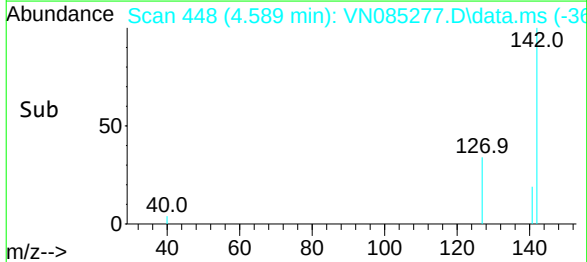
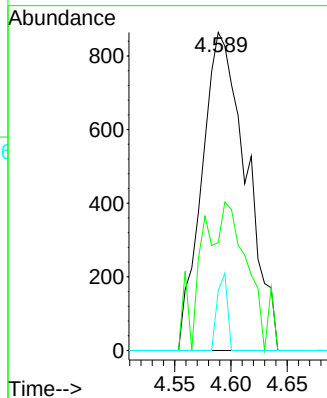
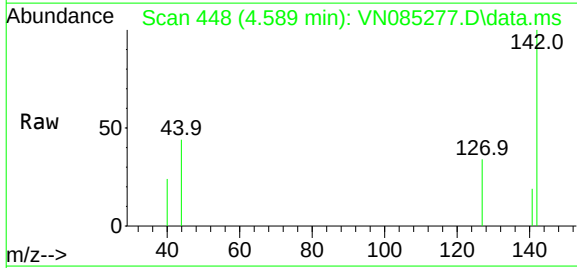




#11  
Methyl Iodide  
Concen: 1.192 ug/l  
RT: 4.589 min Scan# 44  
Delta R.T. 0.000 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

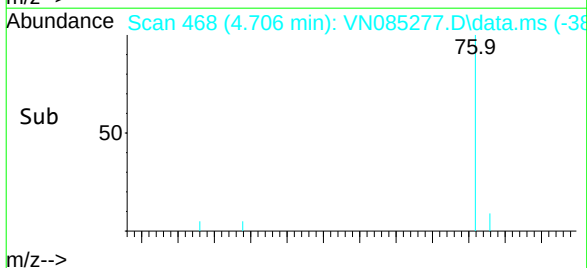
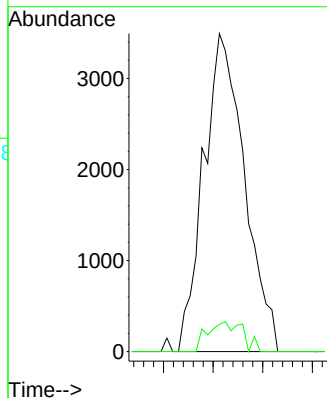
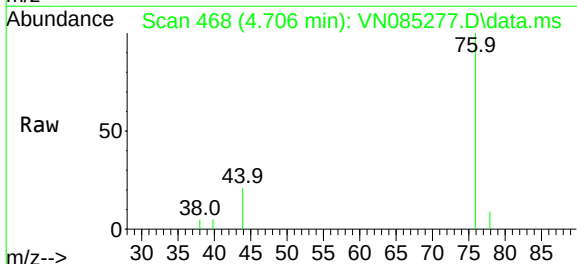
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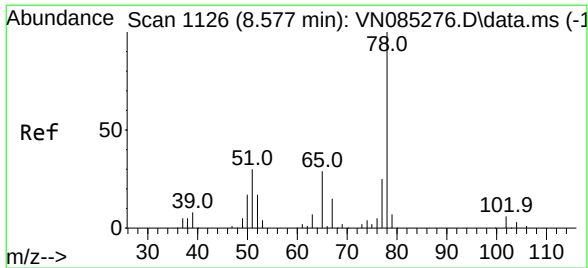
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2373  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 33.9  | 25.1  | 75.4  |
| 141      | 18.8  | 6.9   | 20.7  |



#16  
Carbon Disulfide  
Concen: 1.978 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. -0.006 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 76    | Resp: | 9986  |
| Ion      | Ratio | Lower | Upper |
| 76       | 100   |       |       |
| 78       | 8.6   | 6.6   | 9.8   |

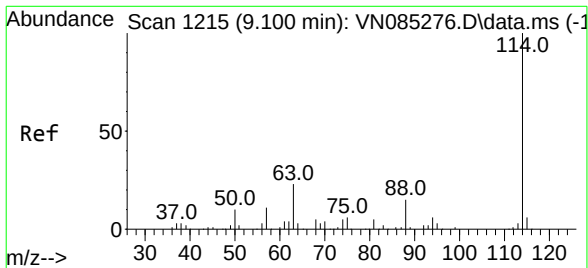
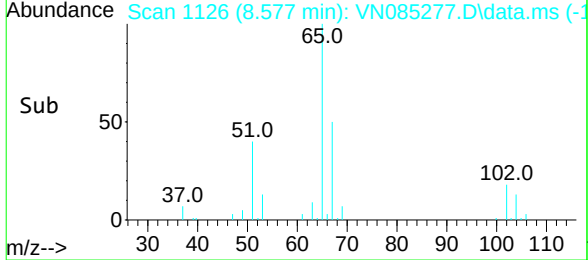
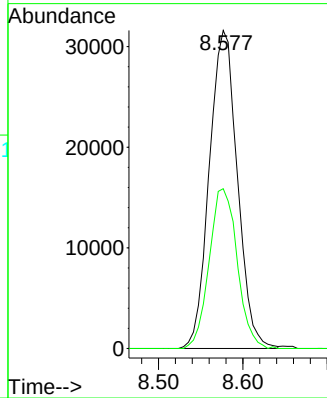
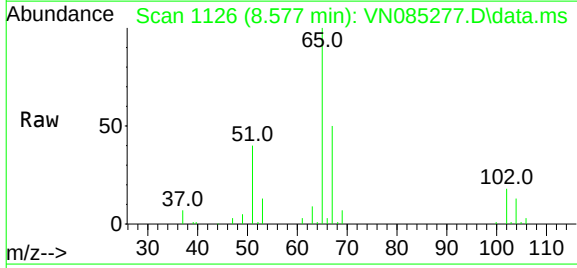




#27  
1,2-Dichloroethane-d4  
Concen: 30.877 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

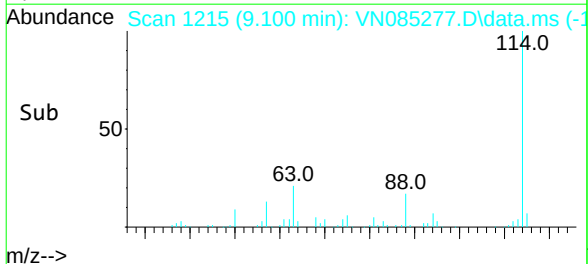
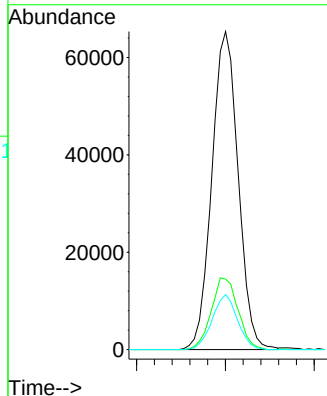
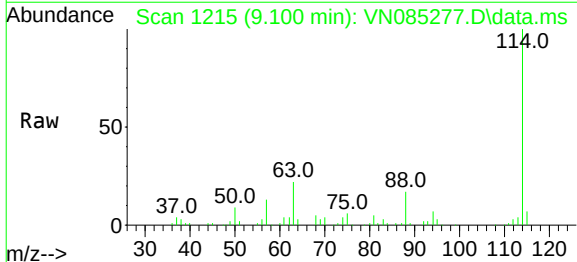
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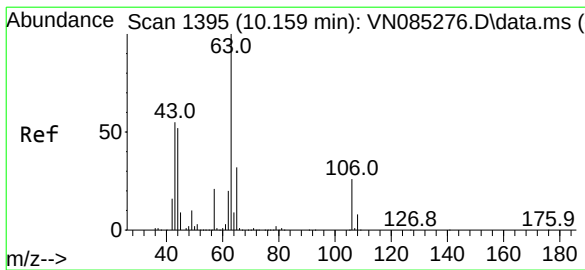
Tgt Ion: 65 Resp: 73022  
Ion Ratio Lower Upper  
65 100  
67 50.0 42.0 63.0



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. 0.000 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

Tgt Ion: 114 Resp: 134373  
Ion Ratio Lower Upper  
114 100  
63 22.9 18.0 27.0  
88 16.6 12.9 19.3

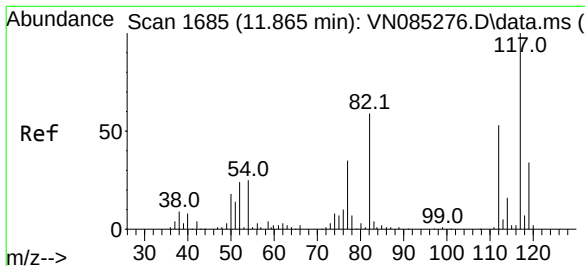
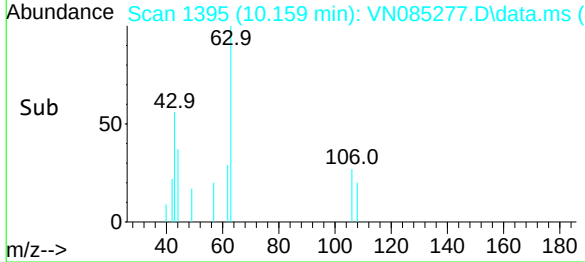
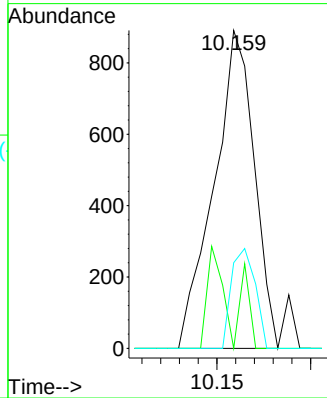
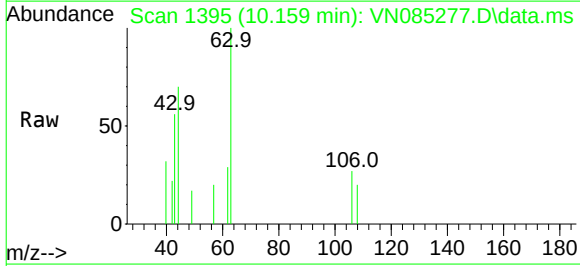




#55  
2-Chloroethyl vinyl ether  
Concen: 0.999 ug/l  
RT: 10.159 min Scan# 1395  
Delta R.T. 0.000 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

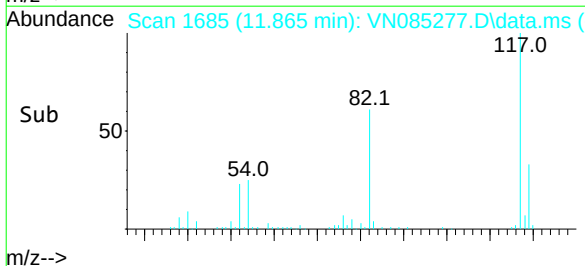
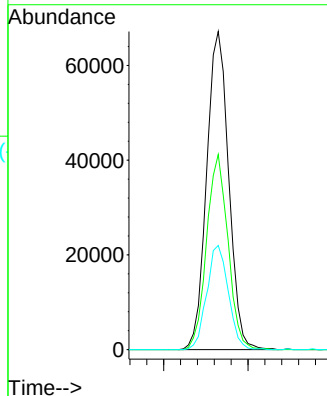
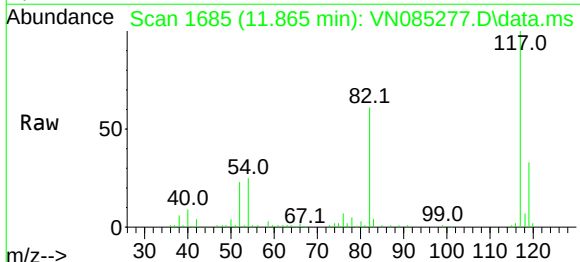
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

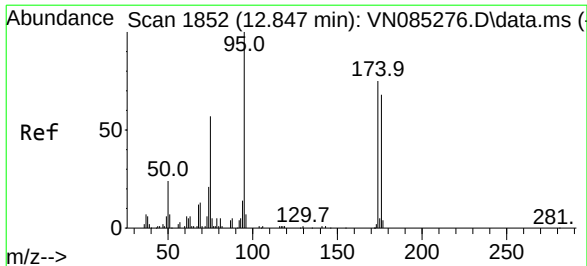
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 1331  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 6.3   | 25.9  | 38.9# |
| 106      | 18.6  | 21.2  | 31.8# |



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 122041 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 59.5  | 47.4  | 71.0   |
| 119      | 32.0  | 25.3  | 37.9   |





#60

4-Bromofluorobenzene

Concen: 24.895 ug/l

RT: 12.847 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085277.D

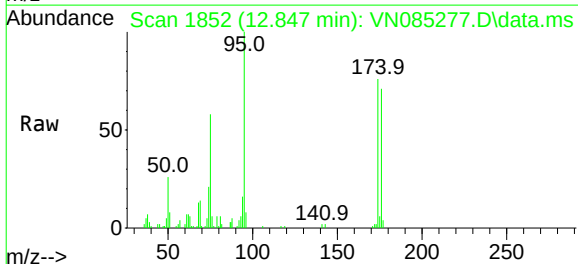
Acq: 20 Dec 2024 12:06

Instrument :

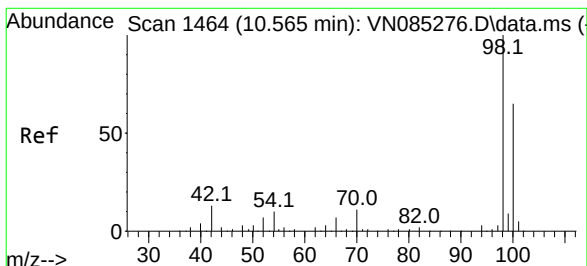
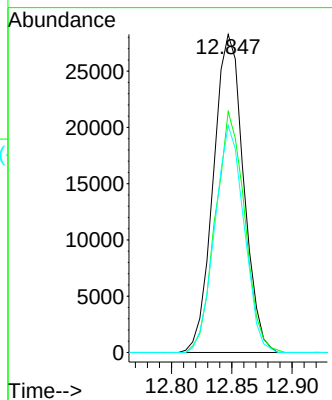
MSVOA\_N

ClientSampleId :

IBLK



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 49215 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 73.5  | 57.8  | 86.8  |
| 176      | 69.2  | 57.1  | 85.7  |



#63

Toluene-d8

Concen: 28.304 ug/l

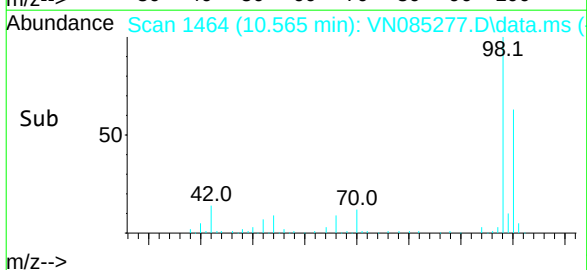
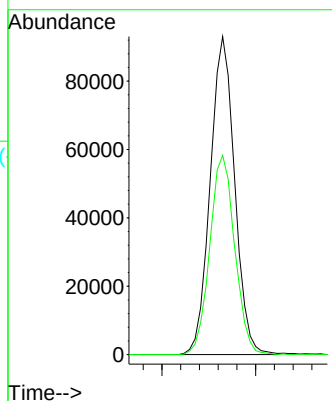
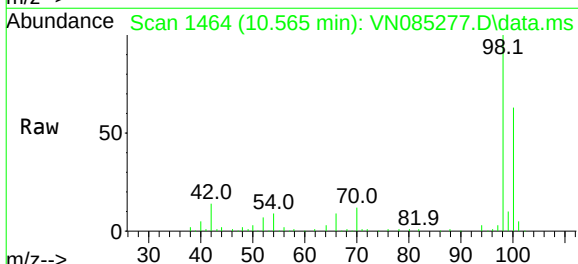
RT: 10.565 min Scan# 1464

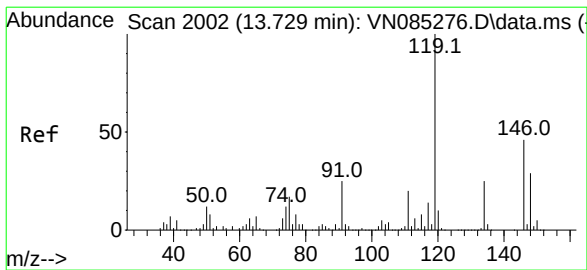
Delta R.T. 0.000 min

Lab File: VN085277.D

Acq: 20 Dec 2024 12:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 168668 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 63.8  | 50.8  | 76.2   |





#83

1,3-Dichlorobenzene

Concen: 0.971 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085277.D

Acq: 20 Dec 2024 12:06

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

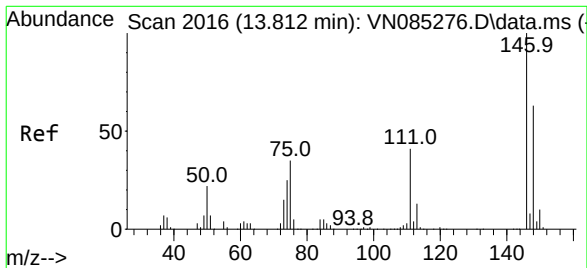
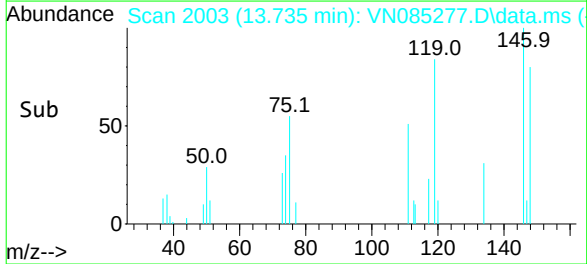
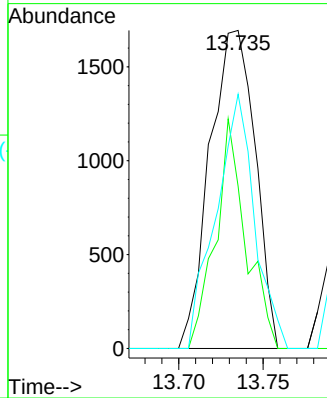
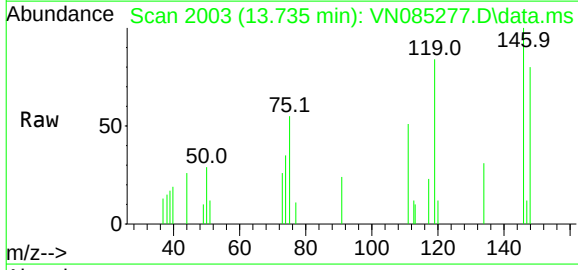
Tgt Ion:146 Resp: 3168

Ion Ratio Lower Upper

146 100

111 48.4 20.4 61.3

148 68.1 31.1 93.5



#84

1,4-Dichlorobenzene

Concen: 1.136 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN085277.D

Acq: 20 Dec 2024 12:06

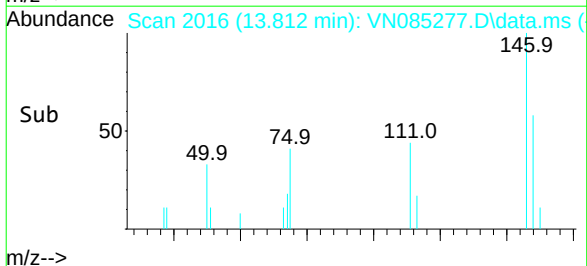
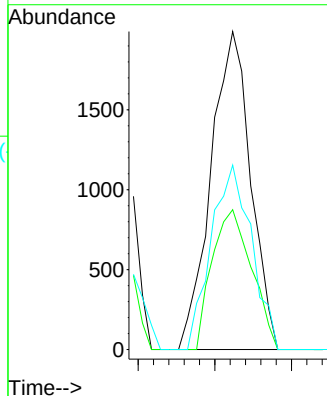
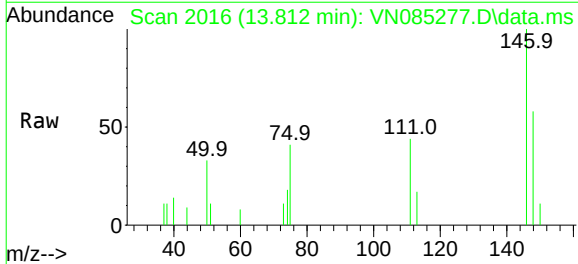
Tgt Ion:146 Resp: 3584

Ion Ratio Lower Upper

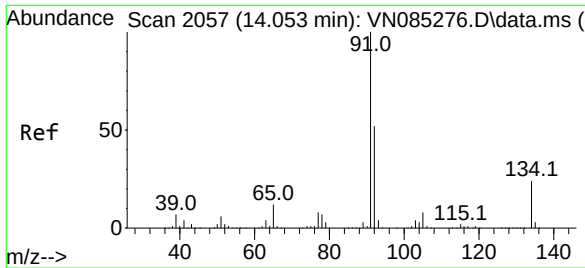
146 100

111 43.8 20.7 62.1

148 58.9 33.2 99.6



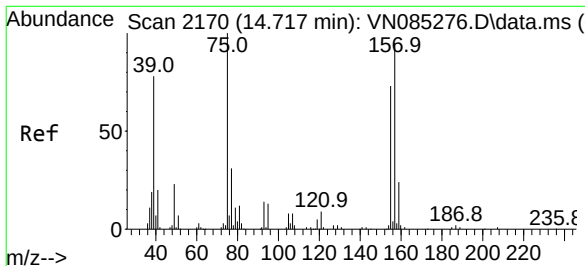
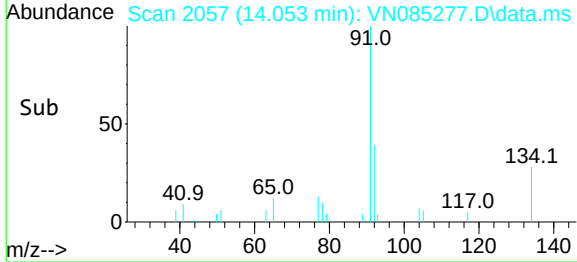
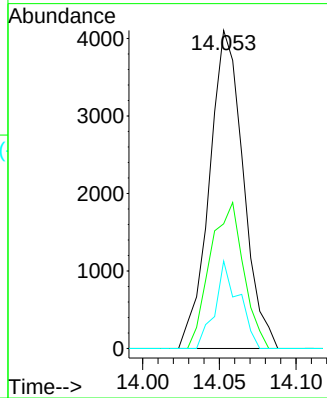
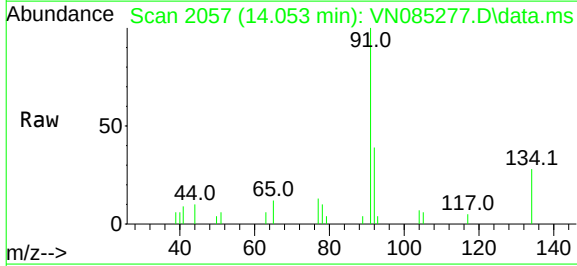




#85  
n-Butylbenzene  
Concen: 1.243 ug/l  
RT: 14.053 min Scan# 2057  
Delta R.T. 0.000 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

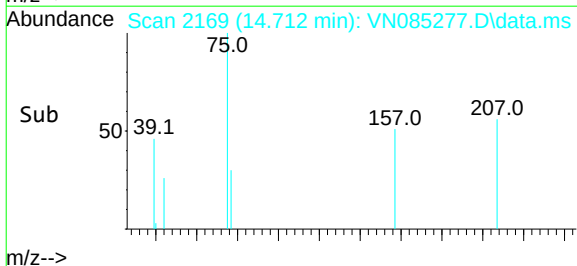
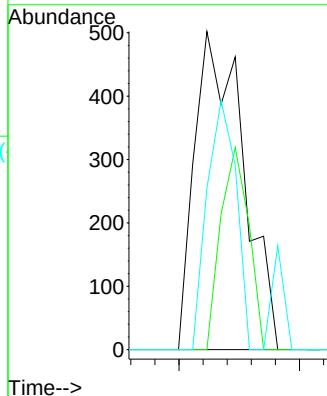
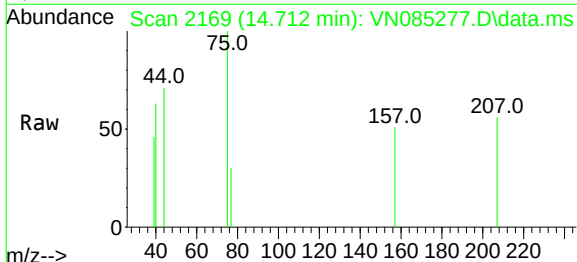
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

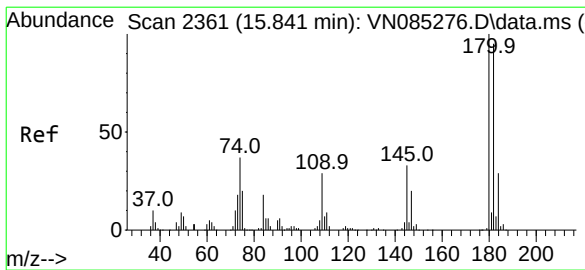
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 6305  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 45.2  | 0.0   | 102.0 |
| 134      | 19.3  | 0.0   | 46.4  |



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 1.536 ug/l  
RT: 14.712 min Scan# 2169  
Delta R.T. -0.006 min  
Lab File: VN085277.D  
Acq: 20 Dec 2024 12:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 704    |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 36.5  | 53.4  | 80.0#  |
| 157      | 47.0  | 74.2  | 111.4# |





#89

1,2,4-Trichlorobenzene

Concen: 3.033 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. -0.441 min

Lab File: VN085277.D

Acq: 20 Dec 2024 12:06

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

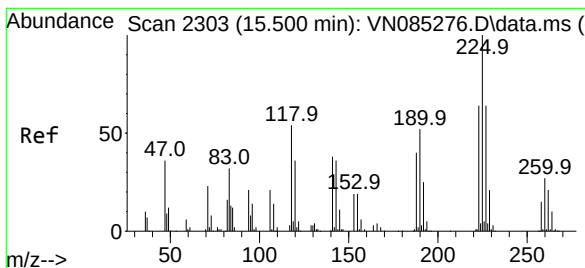
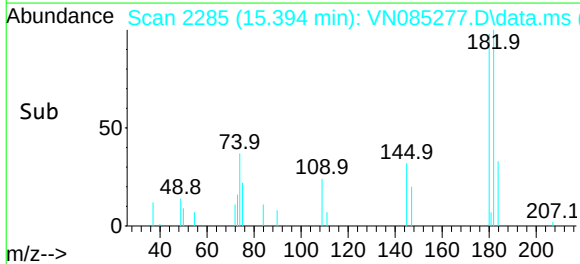
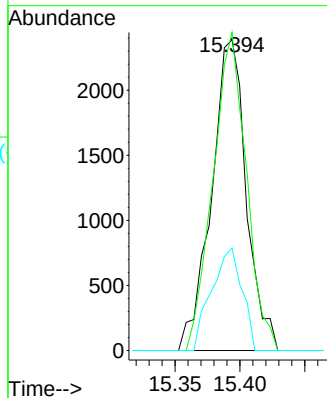
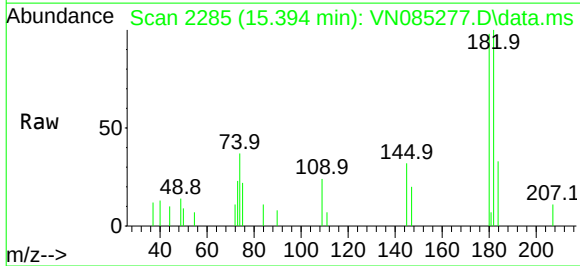
Tgt Ion:180 Resp: 4453

Ion Ratio Lower Upper

180 100

182 98.0 76.5 114.7

145 28.9 27.4 41.2



#90

Hexachlorobutadiene

Concen: 5.151 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085277.D

Acq: 20 Dec 2024 12:06

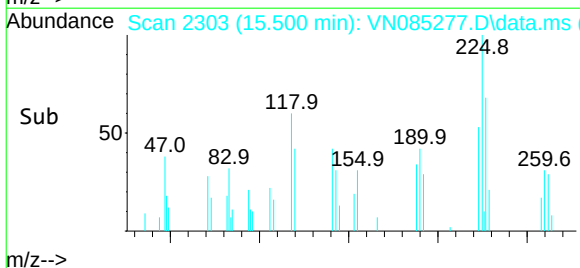
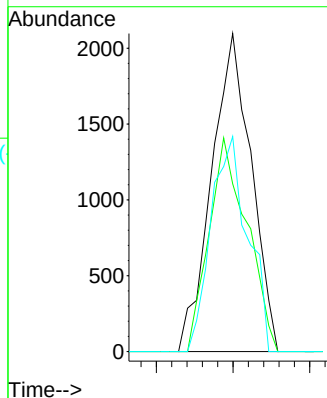
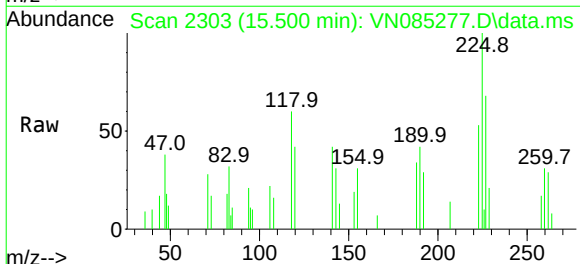
Tgt Ion:225 Resp: 3769

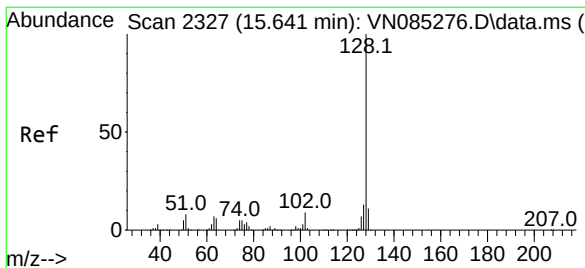
Ion Ratio Lower Upper

225 100

223 64.4 0.0 116.2

227 62.5 0.0 116.4





#91

Naphthalene

Concen: 3.687 ug/l

RT: 15.635 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN085277.D

Acq: 20 Dec 2024 12:06

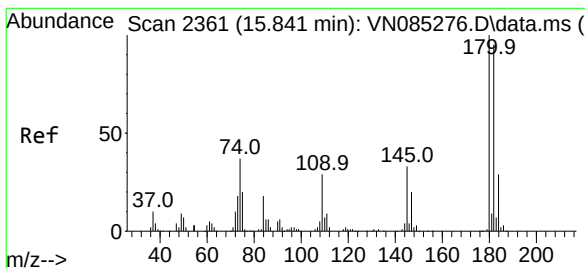
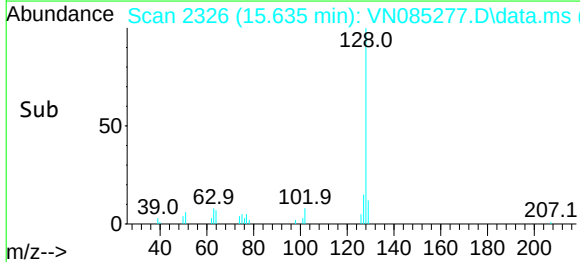
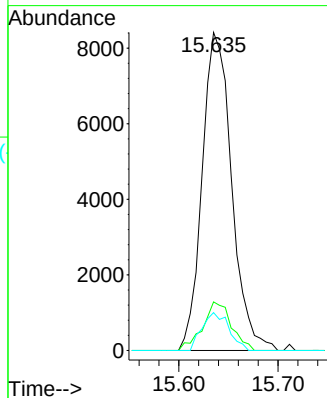
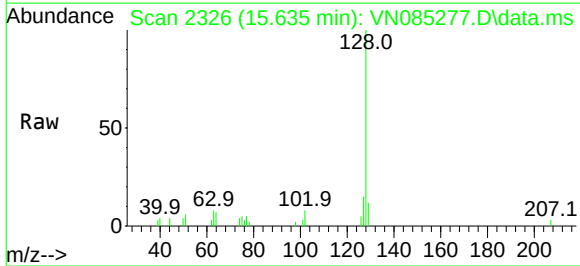
Instrument :

MSVOA\_N

ClientSampleId :

IBLK

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 17391 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 14.9  | 10.6  | 16.0  |
| 129      | 10.9  | 8.6   | 13.0  |



#92

1,2,3-Trichlorobenzene

Concen: 3.928 ug/l m

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085277.D

Acq: 20 Dec 2024 12:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 5766  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 75.7  | 0.0   | 191.2 |
| 145      | 22.4  | 0.0   | 68.6  |

