

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041425\  
 Data File : VN086268.D  
 Acq On : 14 Apr 2025 14:50  
 Operator : JC\MD  
 Sample : PB167573ZHE#08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB167573ZHE#08

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 04/16/2025  
 Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 15 03:11:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 12 01:21:52 2025  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                       |                |      |                     |        |        |          |
| Internal Standards          |                |      |                     |        |        |          |
| 1) Bromochloromethane       | 7.812          | 128  | 31187               | 30.000 | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.100          | 114  | 186915              | 30.000 | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865         | 117  | 164558              | 30.000 | ug/l   | 0.00     |
|                             |                |      |                     |        |        |          |
| System Monitoring Compounds |                |      |                     |        |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.577          | 65   | 92954               | 30.558 | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = 101.867% |        |        |          |
| 60) 4-Bromofluorobenzene    | 12.847         | 95   | 91553               | 27.944 | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = 93.133%  |        |        |          |
| 63) Toluene-d8              | 10.565         | 98   | 281222              | 30.271 | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = 100.900% |        |        |          |
|                             |                |      |                     |        |        |          |
| Target Compounds            |                |      |                     |        |        |          |
|                             |                |      |                     |        |        | Qvalue   |
| 12) Methyl Acetate          | 5.030          | 43   | 3384                | 1.009  | ug/l   | 93       |
| 15) Acetone                 | 4.436          | 58   | 12341               | 34.379 | ug/l   | 71       |
| 16) Carbon Disulfide        | 4.718          | 76   | 7517                | 1.104  | ug/l # | 92       |
| 18) Methylene Chloride      | 5.277          | 84   | 9555                | 3.529  | ug/l   | 91       |
| 44) Isopropyl Acetate       | 8.682          | 43   | 35254m              | 5.078  | ug/l   |          |
| -----                       |                |      |                     |        |        |          |

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

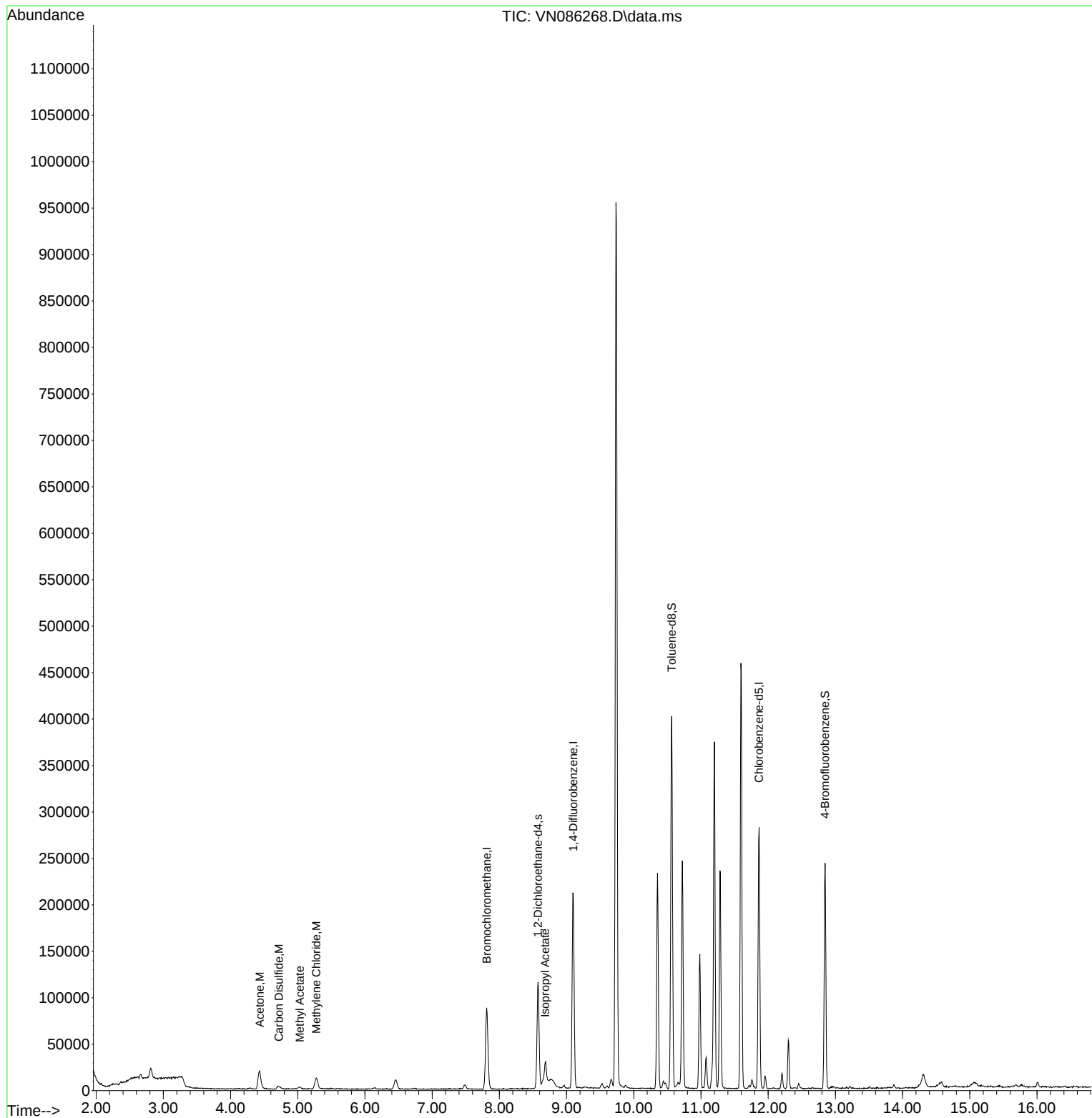
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041425\  
Data File : VN086268.D  
Acq On : 14 Apr 2025 14:50  
Operator : JC\MD  
Sample : PB167573ZHE#08  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

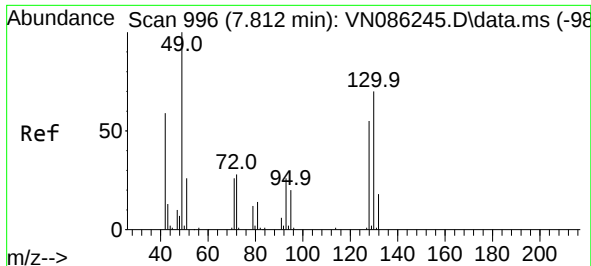
Instrument :  
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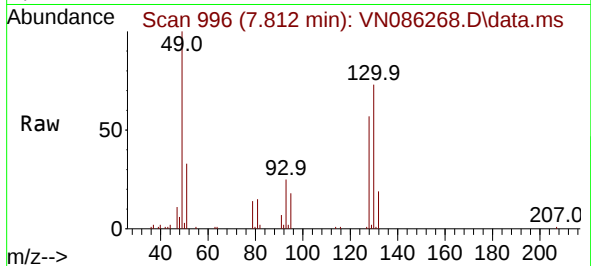
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Apr 12 01:21:52 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 996  
Delta R.T. -0.000 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50

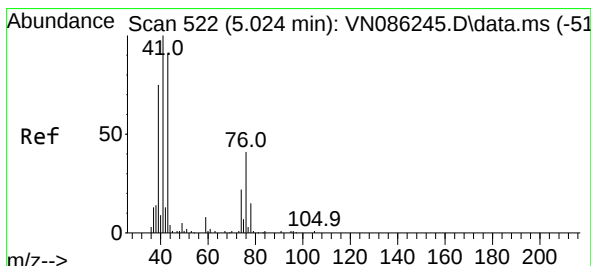
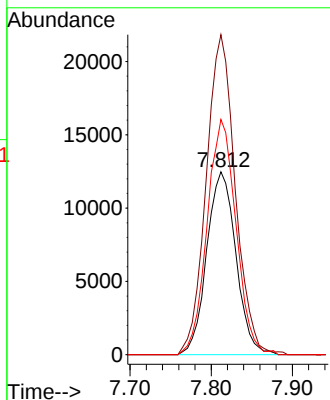
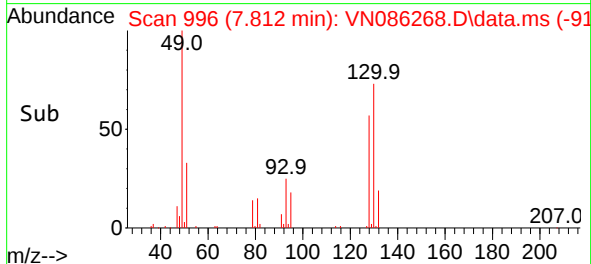
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#08



Tgt Ion:128 Resp: 3118  
Ion Ratio Lower Upper  
128 100  
49 173.8 0.0 452.5  
130 127.0 0.0 315.0

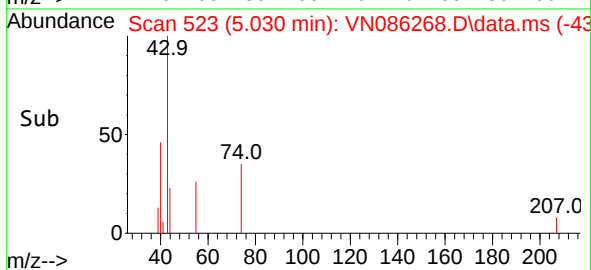
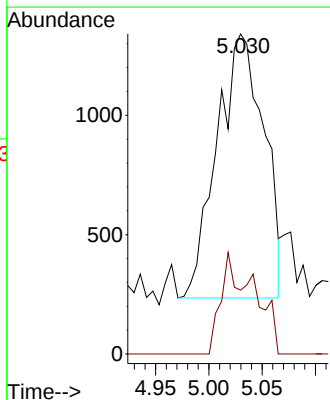
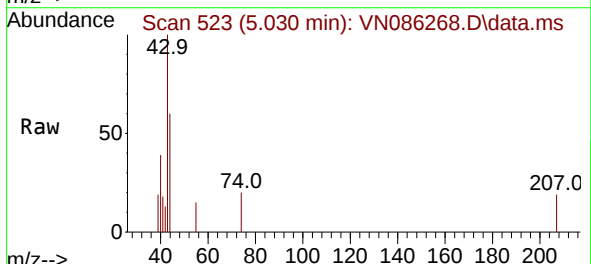
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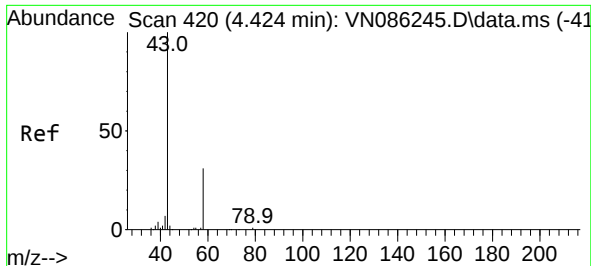
Reviewed By :John Carlone 04/16/2025  
Supervised By :Semsettin Yesilyurt 04/16/2025



#12  
Methyl Acetate  
Concen: 1.009 ug/l  
RT: 5.030 min Scan# 523  
Delta R.T. 0.006 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50

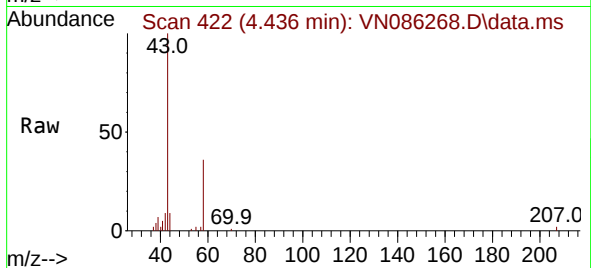
Tgt Ion: 43 Resp: 3384  
Ion Ratio Lower Upper  
43 100  
74 27.3 19.1 28.7





#15  
Acetone  
Concen: 34.379 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50

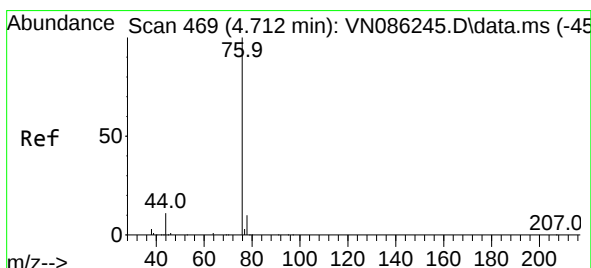
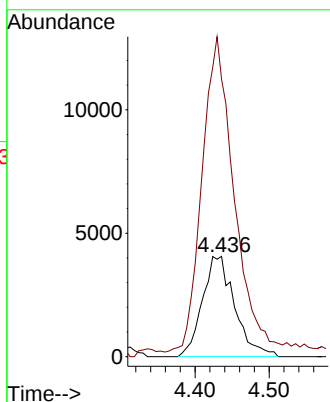
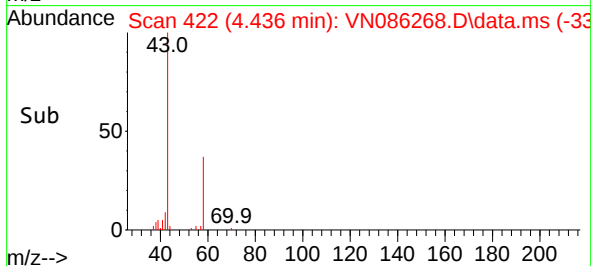
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#08



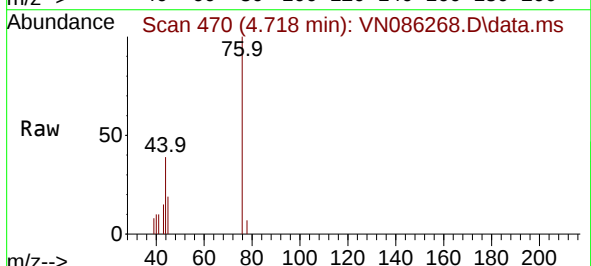
Tgt Ion: 58 Resp: 1234  
Ion Ratio Lower Upper  
58 100  
43 267.6 261.8 392.8

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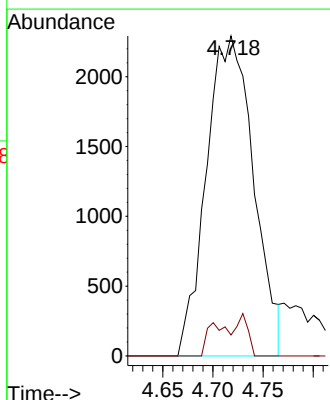
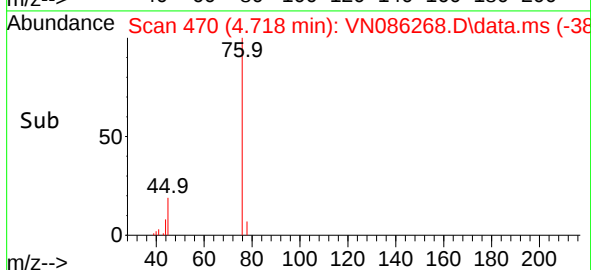
Reviewed By :John Carlone 04/16/2025  
Supervised By :Semsettin Yesilyurt 04/16/2025

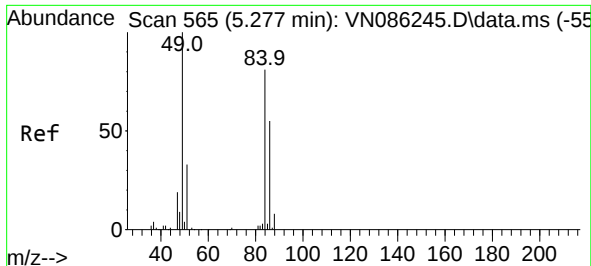


#16  
Carbon Disulfide  
Concen: 1.104 ug/l  
RT: 4.718 min Scan# 470  
Delta R.T. 0.006 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50



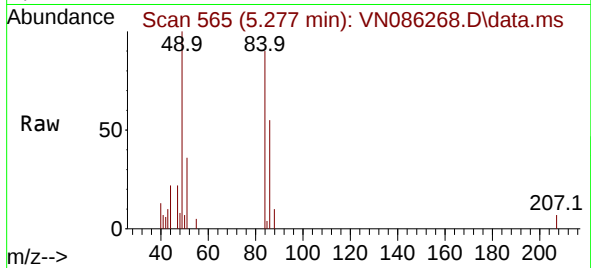
Tgt Ion: 76 Resp: 7517  
Ion Ratio Lower Upper  
76 100  
78 6.5 7.7 11.5#





#18  
Methylene Chloride  
Concen: 3.529 ug/l  
RT: 5.277 min Scan# 565  
Delta R.T. -0.000 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50

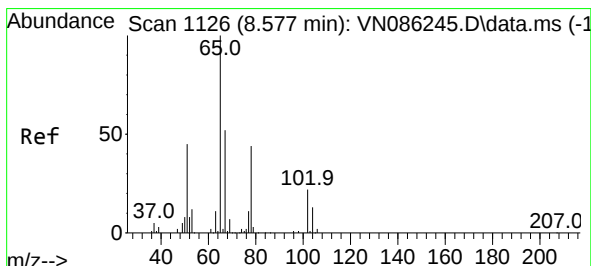
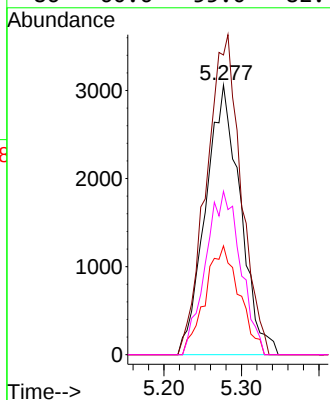
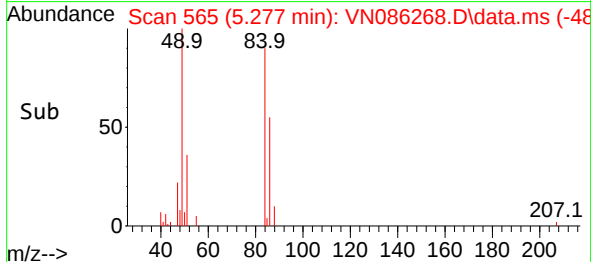
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#08



Tgt Ion: 84 Resp: 955  
Ion Ratio Lower Upper  
84 100  
49 111.2 99.1 148.7  
51 40.3 32.3 48.5  
86 60.6 55.0 82.4

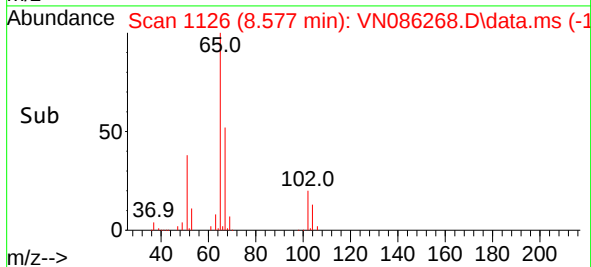
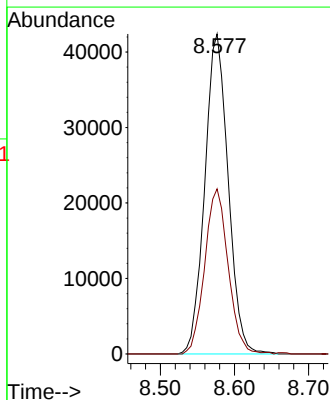
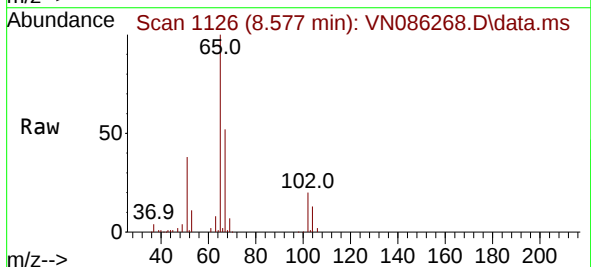
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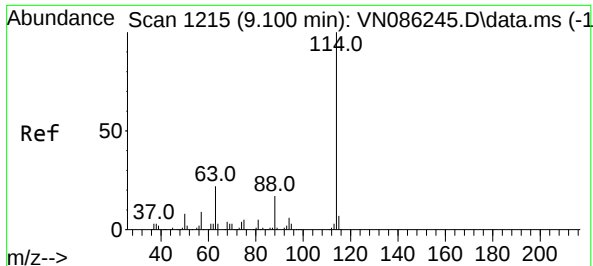
Reviewed By :John Carlone 04/16/2025  
Supervised By :Semsettin Yesilyurt 04/16/2025



#27  
1,2-Dichloroethane-d4  
Concen: 30.558 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50

Tgt Ion: 65 Resp: 92954  
Ion Ratio Lower Upper  
65 100  
67 51.6 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. -0.000 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

Instrument :

MSVOA\_N

ClientSampleId :

PB167573ZHE#08

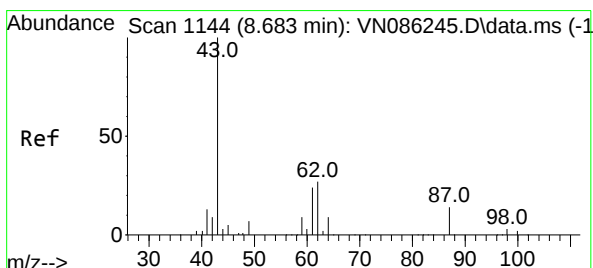
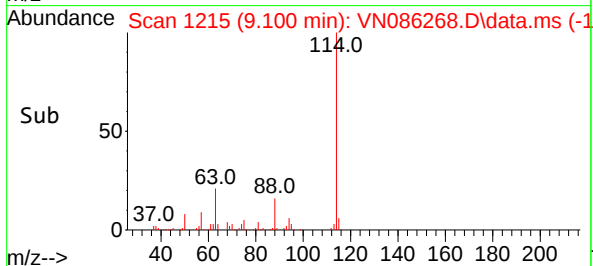
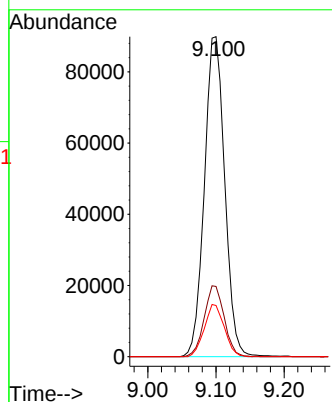
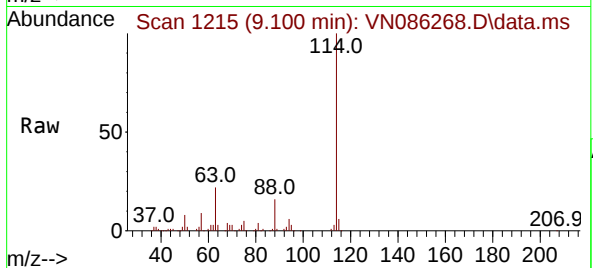
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 18691 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 21.7  | 17.8  | 26.6  |
| 88        | 16.0  | 13.4  | 20.2  |

Manual Integrations

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Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Isopropyl Acetate

Concen: 5.078 ug/l m

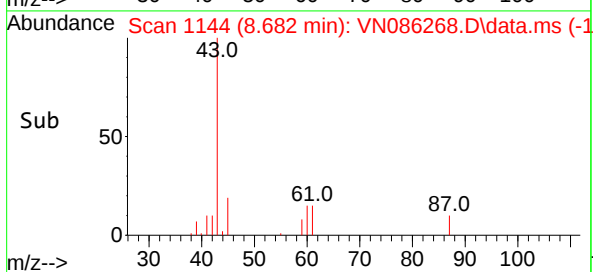
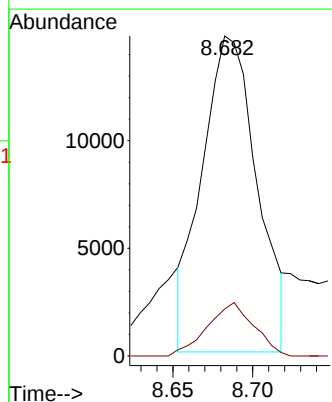
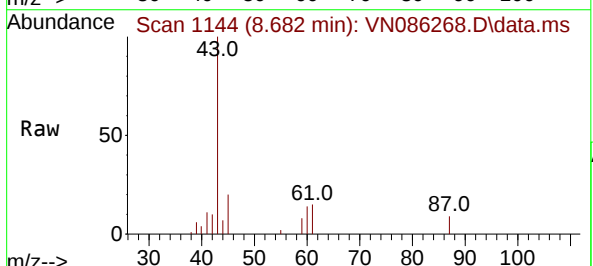
RT: 8.682 min Scan# 1144

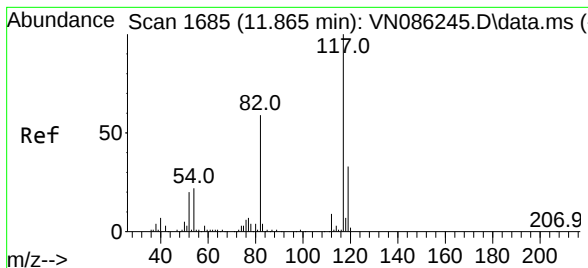
Delta R.T. -0.000 min

Lab File: VN086268.D

Acq: 14 Apr 2025 14:50

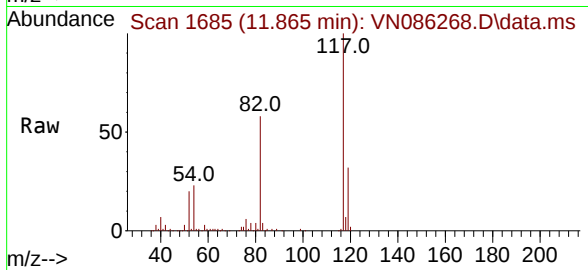
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 35254 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 14.3  | 20.5  | 30.7# |





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50

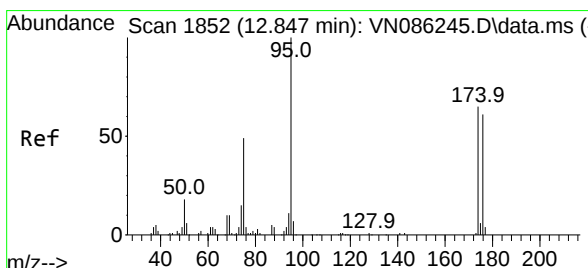
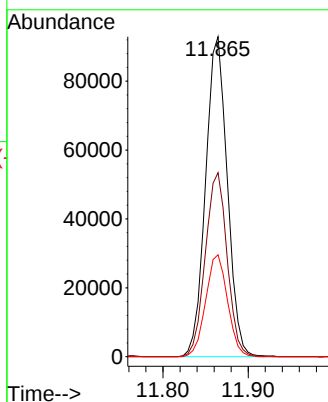
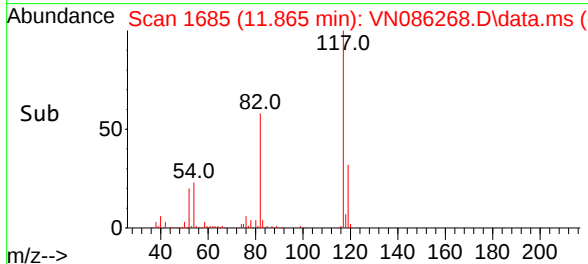
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#08



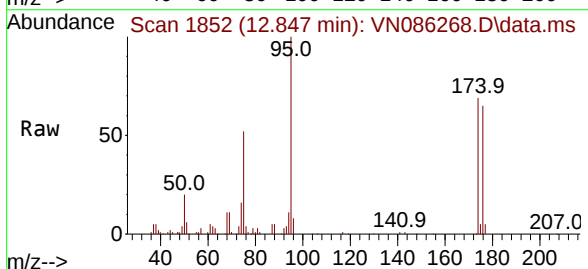
Tgt Ion: 117 Resp: 164553  
Ion Ratio Lower Upper  
117 100  
82 57.8 47.3 70.9  
119 32.0 25.9 38.9

Manual Integrations  
APPROVED

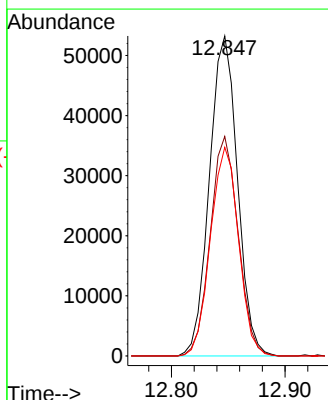
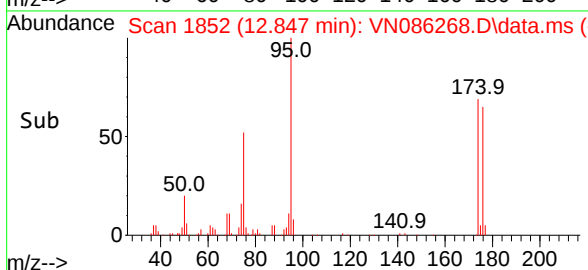
Reviewed By :John Carlone 04/16/2025  
Supervised By :Semsettin Yesilyurt 04/16/2025

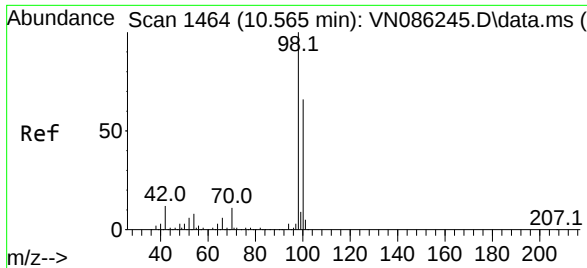


#60  
4-Bromofluorobenzene  
Concen: 27.944 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50



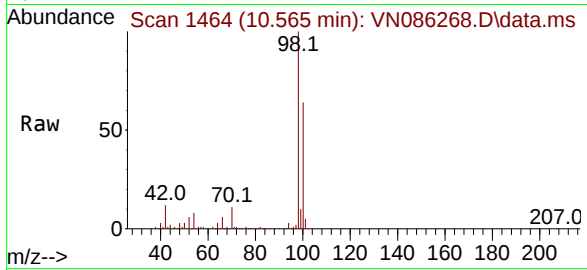
Tgt Ion: 95 Resp: 91553  
Ion Ratio Lower Upper  
95 100  
174 68.3 52.7 79.1  
176 65.1 49.8 74.8





#63  
Toluene-d8  
Concen: 30.271 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN086268.D  
Acq: 14 Apr 2025 14:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB167573ZHE#08



Tgt Ion: 98 Resp: 28122  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.3 78.5

Manual Integrations  
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