

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010925\  
 Data File : VN085407.D  
 Acq On : 09 Jan 2025 14:28  
 Operator : JC\MD  
 Sample : Q1033-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 28612

Quant Time: Jan 10 00:20:27 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122724W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 28 01:36:16 2024  
 Response via : Initial Calibration

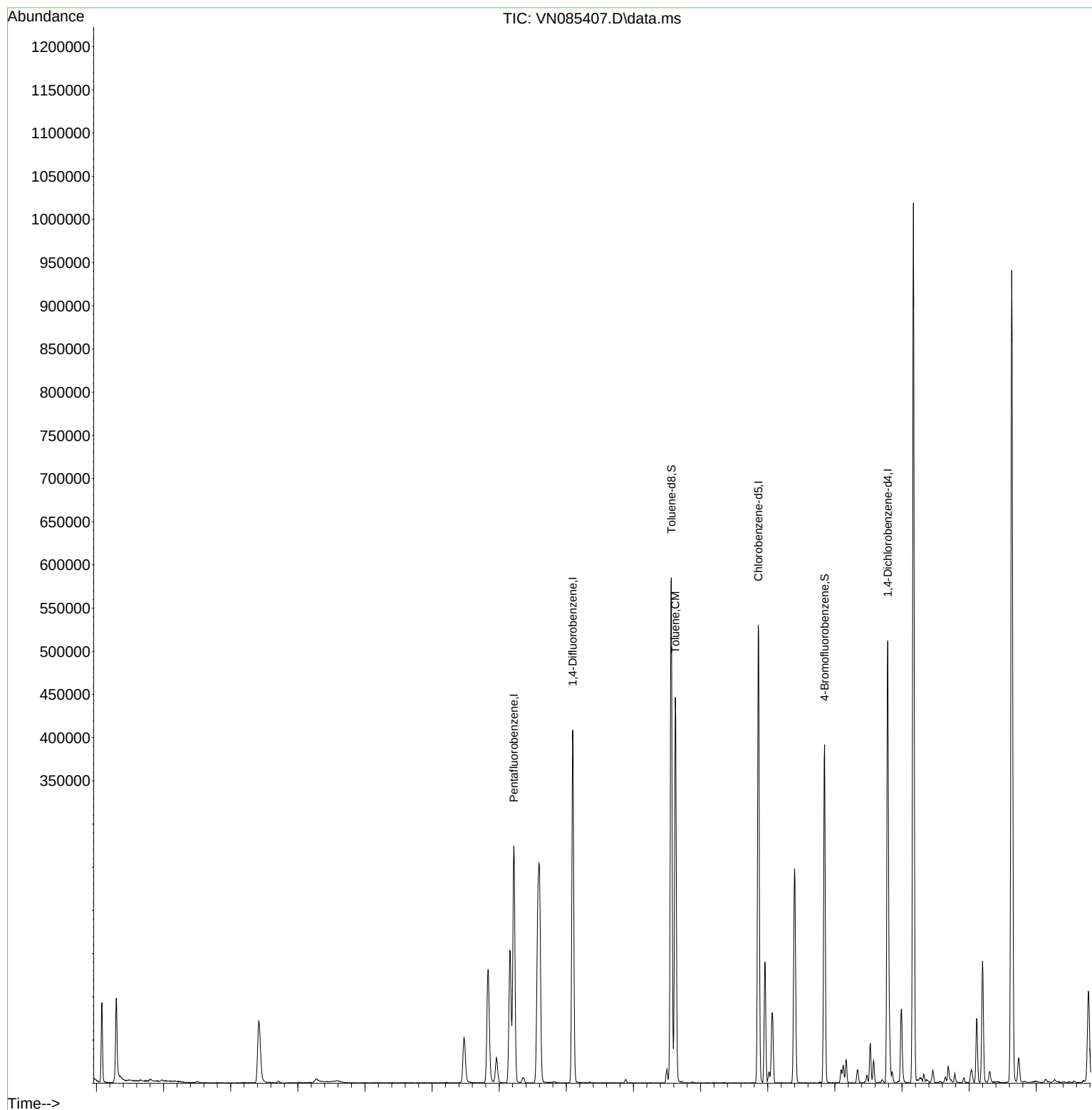
| Compound                    | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-----------------------------|--------|----------------|----------|------------|--------|----------|
| -----                       |        |                |          |            |        |          |
| Internal Standards          |        |                |          |            |        |          |
| 1) Pentafluorobenzene       | 8.218  | 168            | 187143   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.094  | 114            | 335521   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.859 | 117            | 290431   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.788 | 152            | 128447   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.571  | 65             | 141796   | 53.123     | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 74 - 125 | Recovery | = 106.240% |        |          |
| 35) Dibromofluoromethane    | 8.159  | 113            | 110061   | 52.581     | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 75 - 124 | Recovery | = 105.160% |        |          |
| 50) Toluene-d8              | 10.565 | 98             | 394272   | 51.331     | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 86 - 113 | Recovery | = 102.660% |        |          |
| 62) 4-Bromofluorobenzene    | 12.847 | 95             | 132422   | 51.911     | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range 77 - 121 | Recovery | = 103.820% |        |          |
| Target Compounds            |        |                |          |            |        |          |
|                             |        |                |          |            |        | Qvalue   |
| 3) Chloromethane            | 2.354  | 50             | 1023     | 0.360      | ug/l # | 87       |
| 7) Trichlorofluoromethane   | 3.501  | 101            | 1917     | 0.485      | ug/l   | 98       |
| 16) Acetone                 | 4.418  | 43             | 139170   | 158.562    | ug/l   | 98       |
| 20) Methylene Chloride      | 5.271  | 84             | 3019     | 1.279      | ug/l # | 82       |
| 25) 2-Butanone              | 7.477  | 43             | 85456    | 62.758     | ug/l   | 98       |
| 29) Tetrahydrofuran         | 7.836  | 42             | 101636   | 115.875    | ug/l   | 97       |
| 30) Chloroform              | 7.959  | 83             | 25988    | 5.880      | ug/l   | 84       |
| 38) Carbon Tetrachloride    | 8.359  | 117            | 4825     | 1.444      | ug/l   | 96       |
| 40) Benzene                 | 8.600  | 78             | 212459   | 22.929     | ug/l   | 97       |
| 47) Bromodichloromethane    | 9.888  | 83             | 2977     | 0.876      | ug/l # | 82       |
| 52) Toluene                 | 10.624 | 92             | 187157   | 33.922     | ug/l   | 97       |
| 67) Ethyl Benzene           | 11.959 | 91             | 97995    | 9.389      | ug/l   | 99       |
| 68) m/p-Xylenes             | 12.071 | 106            | 26155    | 6.847      | ug/l   | 95       |
| 69) o-Xylene                | 12.394 | 106            | 38453    | 10.407     | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene  | 13.165 | 105            | 14351    | 1.921      | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.482 | 105            | 5183     | 0.697      | ug/l   | 98       |
| -----                       |        |                |          |            |        |          |

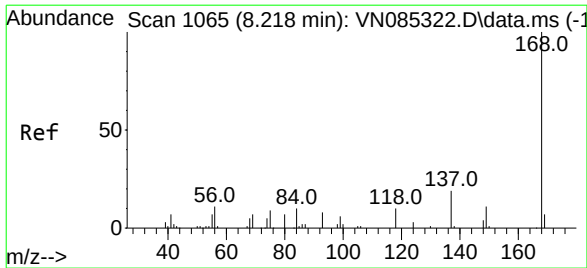
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010925\  
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Sample : Q1033-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
28612

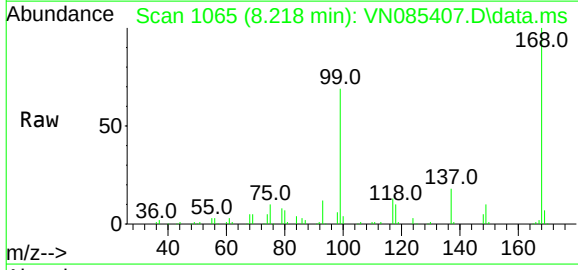
Quant Time: Jan 10 00:20:27 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122724W.M  
Quant Title : SW846 8260  
QLast Update : Sat Dec 28 01:36:16 2024  
Response via : Initial Calibration



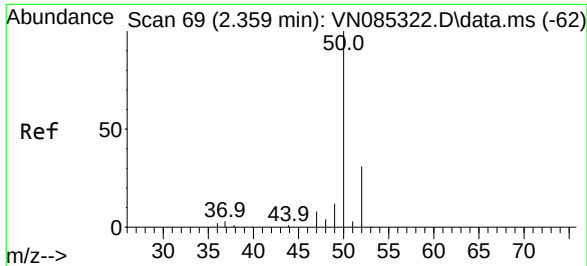
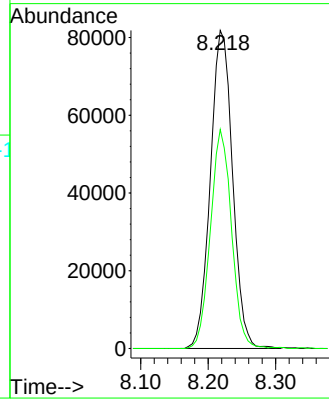
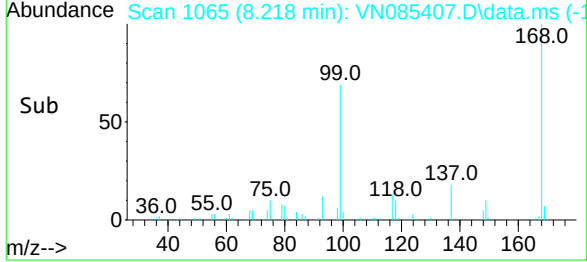


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.000 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
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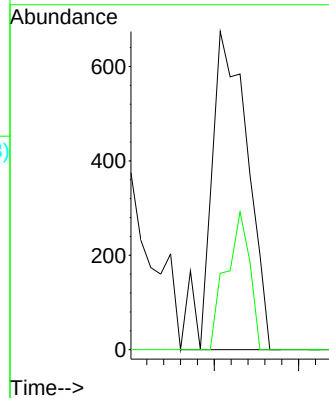
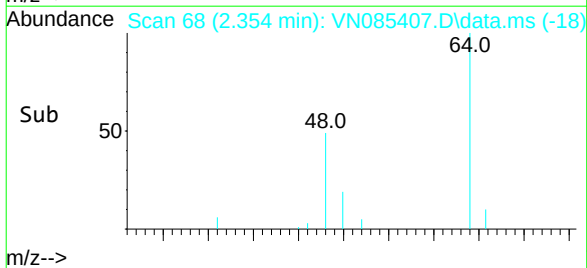
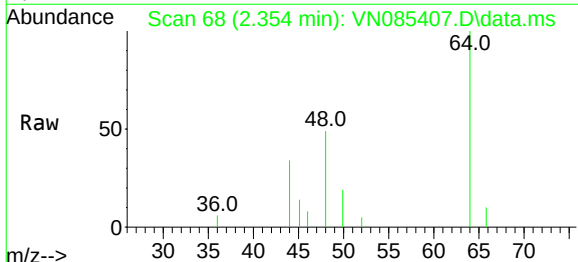


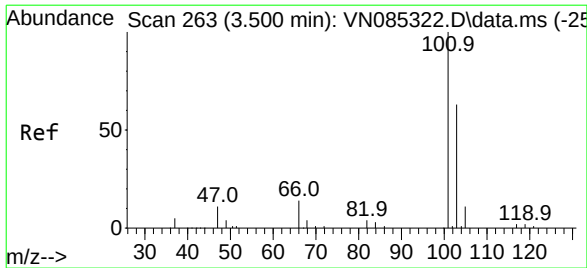
Tgt Ion:168 Resp: 187143  
Ion Ratio Lower Upper  
168 100  
99 68.9 51.0 76.4



#3  
Chloromethane  
Concen: 0.360 ug/l  
RT: 2.354 min Scan# 68  
Delta R.T. -0.006 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

Tgt Ion: 50 Resp: 1023  
Ion Ratio Lower Upper  
50 100  
52 24.0 25.1 37.7

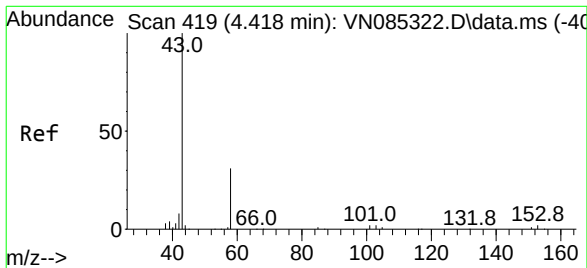
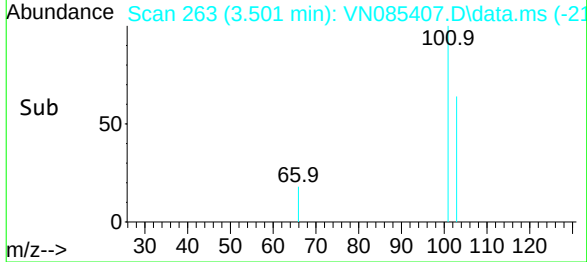
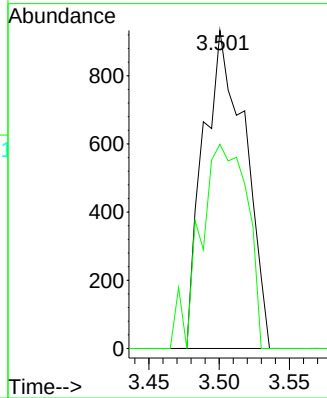
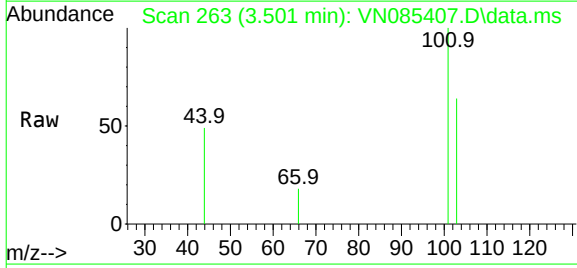




#7  
 Trichlorofluoromethane  
 Concen: 0.485 ug/l  
 RT: 3.501 min Scan# 263  
 Delta R.T. 0.000 min  
 Lab File: VN085407.D  
 Acq: 09 Jan 2025 14:28

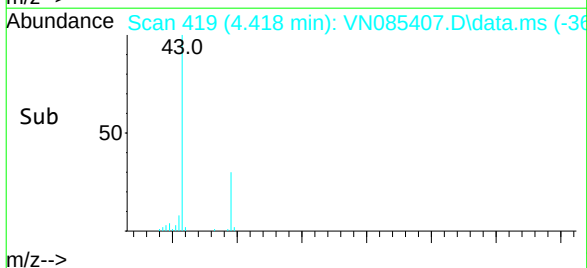
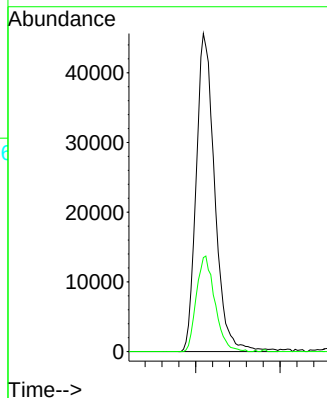
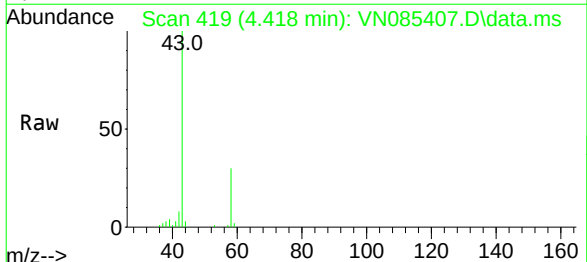
Instrument :  
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 ClientSampleId :  
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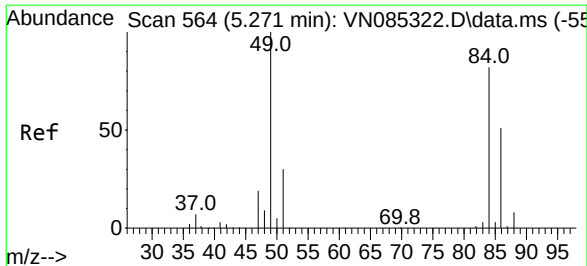
Tgt Ion:101 Resp: 1917  
 Ion Ratio Lower Upper  
 101 100  
 103 64.2 50.3 75.5



#16  
 Acetone  
 Concen: 158.562 ug/l  
 RT: 4.418 min Scan# 419  
 Delta R.T. 0.000 min  
 Lab File: VN085407.D  
 Acq: 09 Jan 2025 14:28

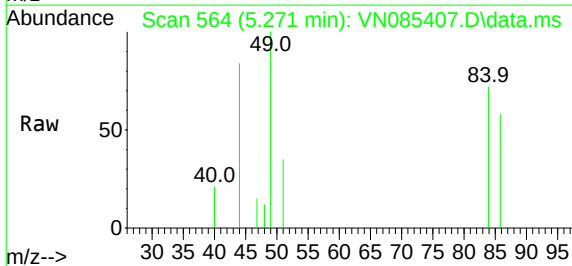
Tgt Ion: 43 Resp: 139170  
 Ion Ratio Lower Upper  
 43 100  
 58 29.5 24.5 36.7



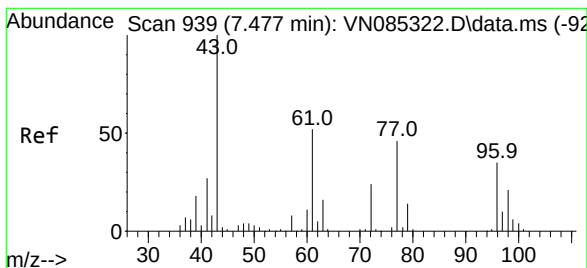
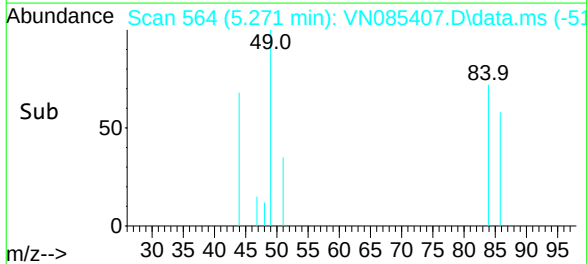
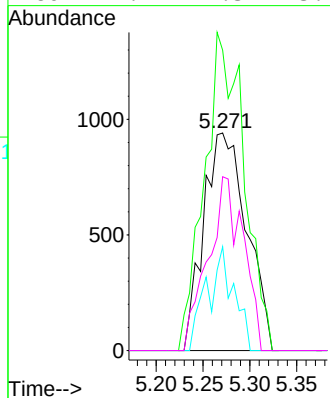


#20  
Methylene Chloride  
Concen: 1.279 ug/l  
RT: 5.271 min Scan# 564  
Delta R.T. 0.000 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
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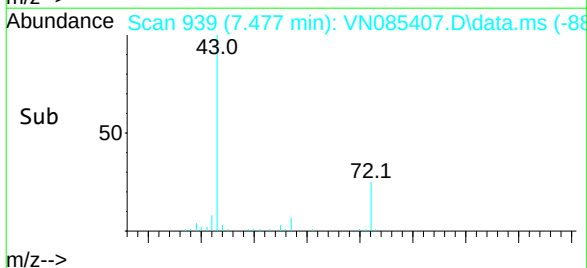
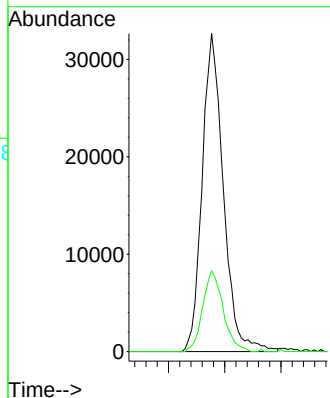
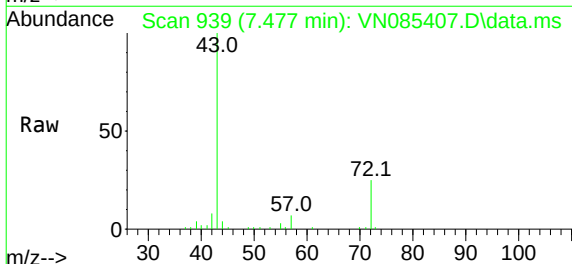


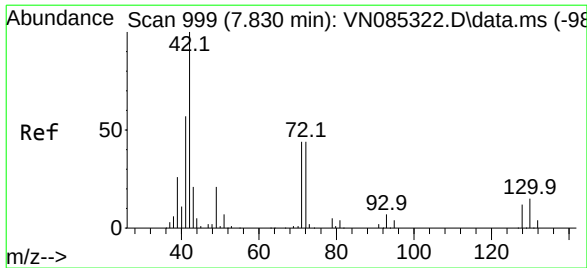
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3019  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 138.0 | 97.6  | 146.4 |
| 51       | 47.7  | 29.1  | 43.7# |
| 86       | 79.9  | 49.3  | 73.9# |



#25  
2-Butanone  
Concen: 62.758 ug/l  
RT: 7.477 min Scan# 939  
Delta R.T. 0.000 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 85456 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 25.4  | 19.6  | 29.4  |

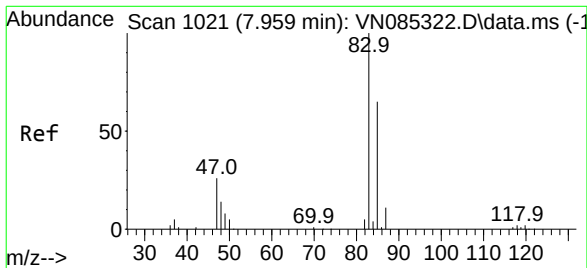
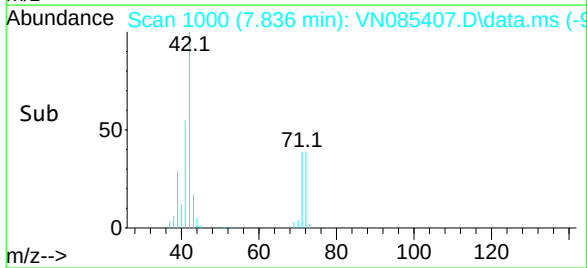
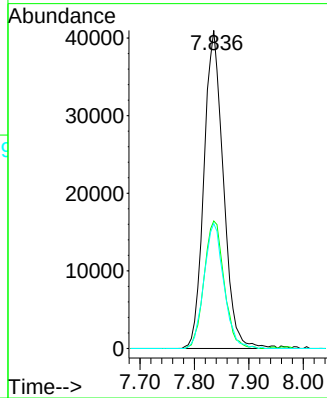
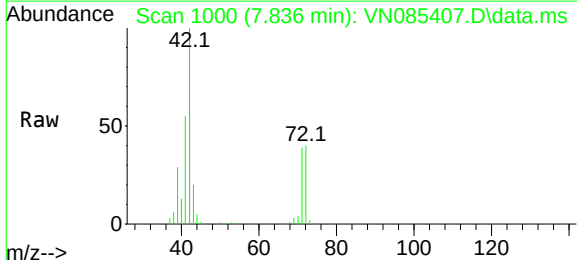




#29  
Tetrahydrofuran  
Concen: 115.875 ug/l  
RT: 7.836 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

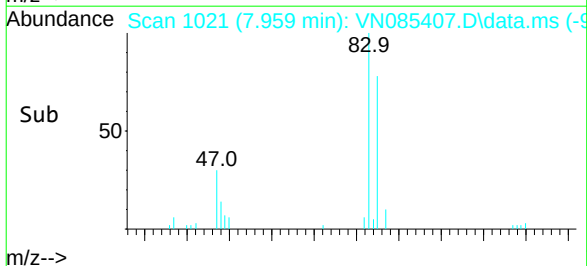
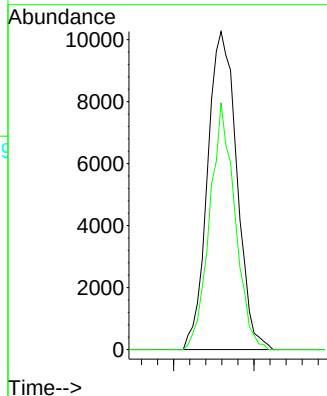
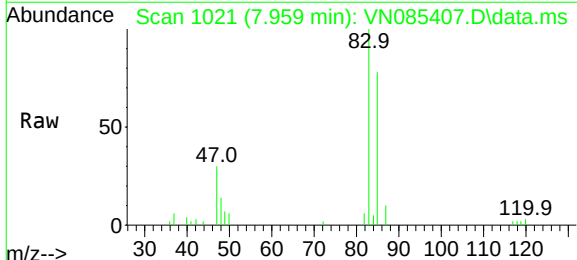
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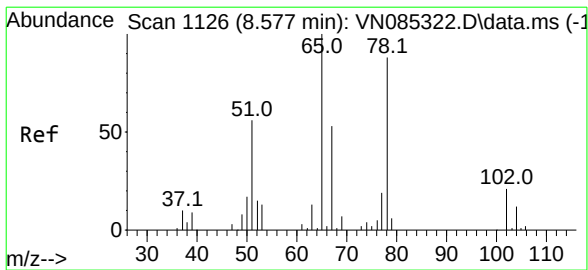
Tgt Ion: 42 Resp: 101636  
Ion Ratio Lower Upper  
42 100  
72 41.4 35.1 52.7  
71 40.2 33.4 50.0



#30  
Chloroform  
Concen: 5.880 ug/l  
RT: 7.959 min Scan# 1021  
Delta R.T. 0.000 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

Tgt Ion: 83 Resp: 25988  
Ion Ratio Lower Upper  
83 100  
85 77.6 52.0 78.0

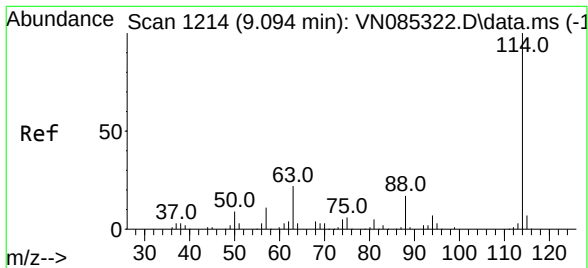
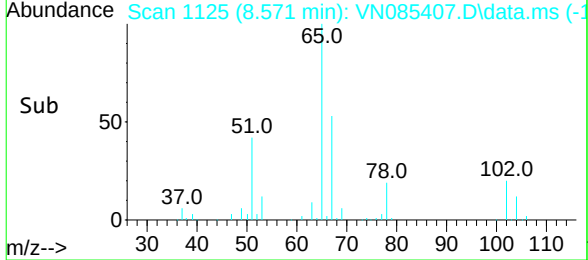
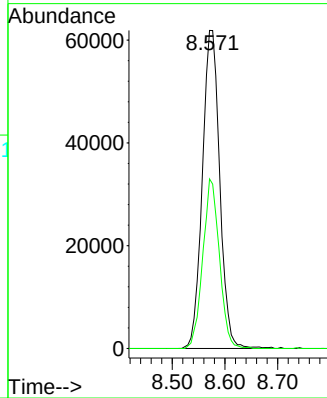
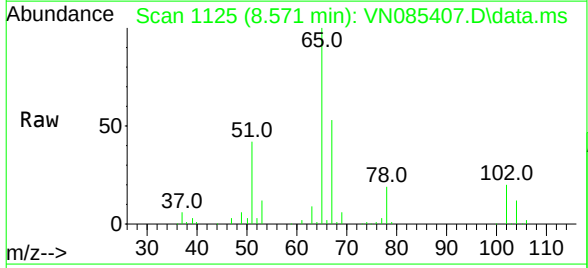




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.123 ug/l  
 RT: 8.571 min Scan# 1126  
 Delta R.T. -0.006 min  
 Lab File: VN085407.D  
 Acq: 09 Jan 2025 14:28

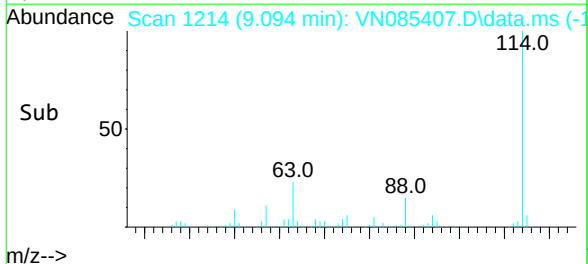
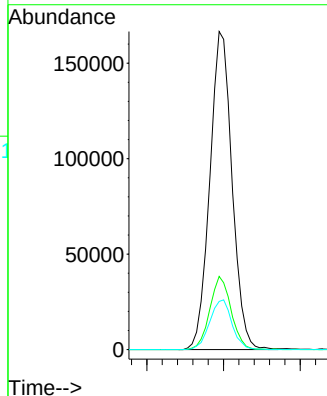
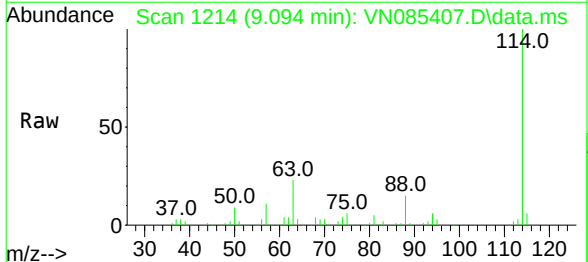
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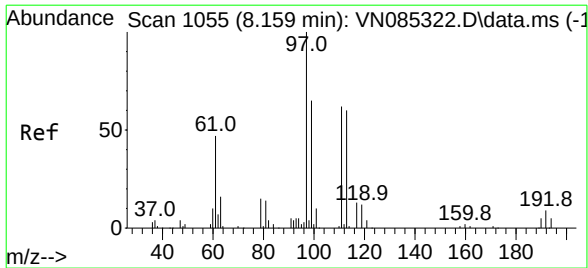
Tgt Ion: 65 Resp: 141796  
 Ion Ratio Lower Upper  
 65 100  
 67 51.0 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.094 min Scan# 1214  
 Delta R.T. 0.000 min  
 Lab File: VN085407.D  
 Acq: 09 Jan 2025 14:28

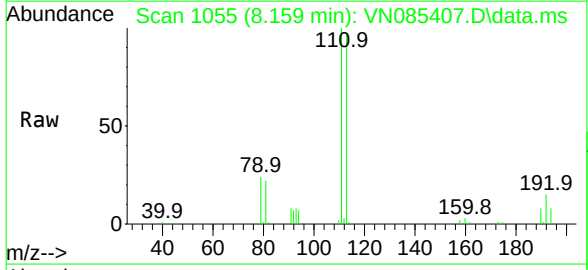
Tgt Ion: 114 Resp: 335521  
 Ion Ratio Lower Upper  
 114 100  
 63 23.0 0.0 43.4  
 88 15.1 0.0 33.6



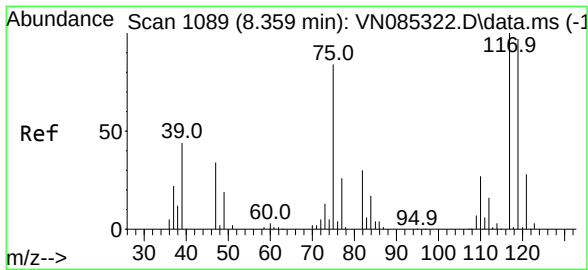
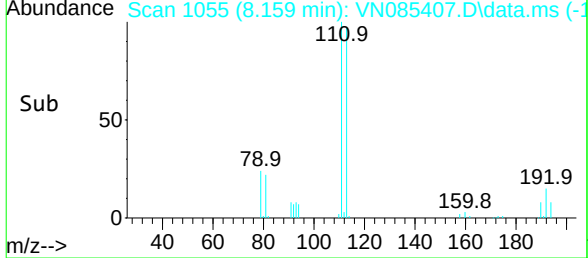
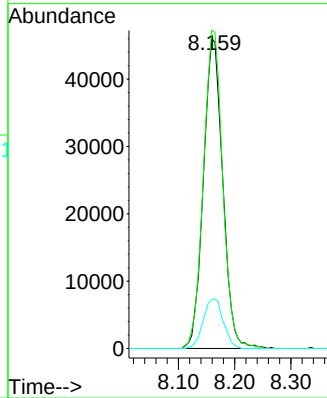


#35  
 Dibromofluoromethane  
 Concen: 52.581 ug/l  
 RT: 8.159 min Scan# 1055  
 Delta R.T. 0.000 min  
 Lab File: VN085407.D  
 Acq: 09 Jan 2025 14:28

Instrument :  
 MSVOA\_N  
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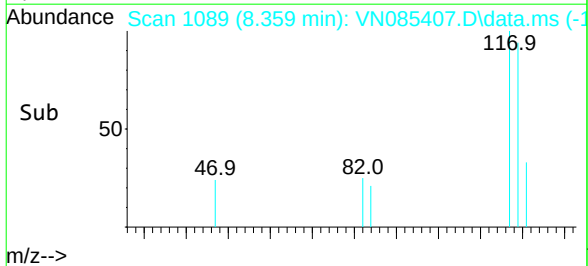
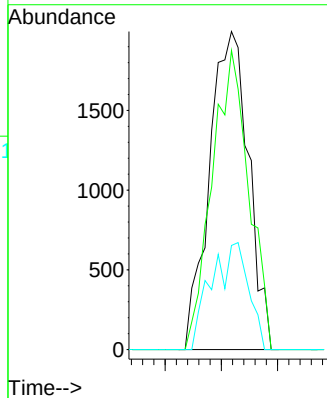
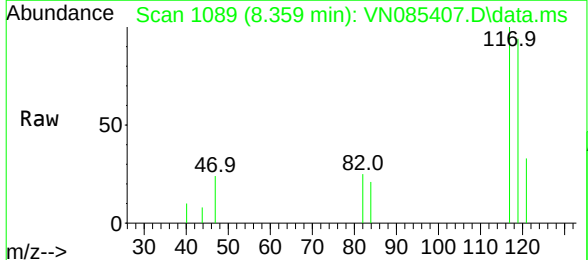


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 110061 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.5 | 80.5  | 120.7  |
| 192      | 16.6  | 12.9  | 19.3   |

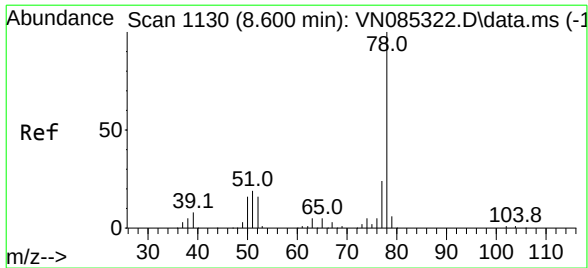


#38  
 Carbon Tetrachloride  
 Concen: 1.444 ug/l  
 RT: 8.359 min Scan# 1089  
 Delta R.T. 0.000 min  
 Lab File: VN085407.D  
 Acq: 09 Jan 2025 14:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 4825  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 94.0  | 77.8  | 116.6 |
| 121      | 32.7  | 22.5  | 33.7  |



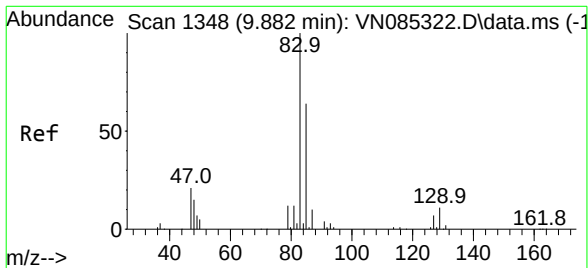
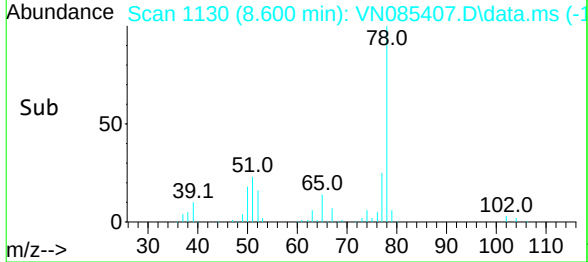
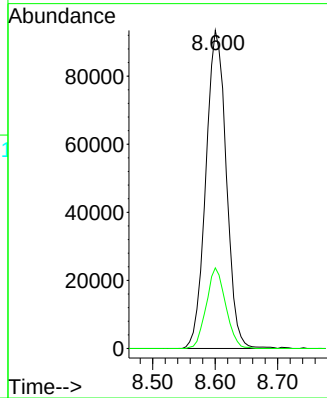
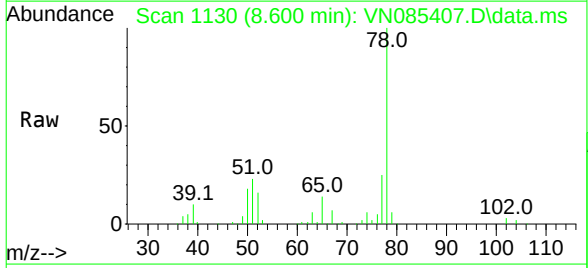




#40  
Benzene  
Concen: 22.929 ug/l  
RT: 8.600 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

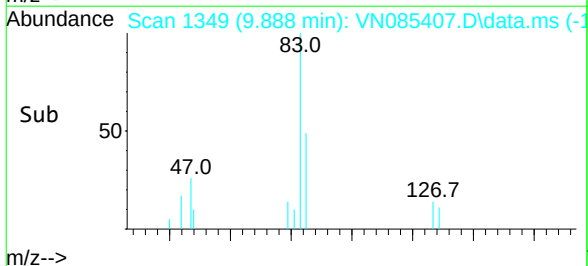
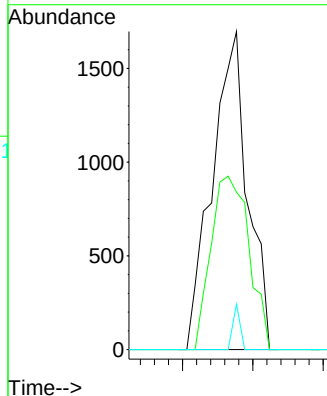
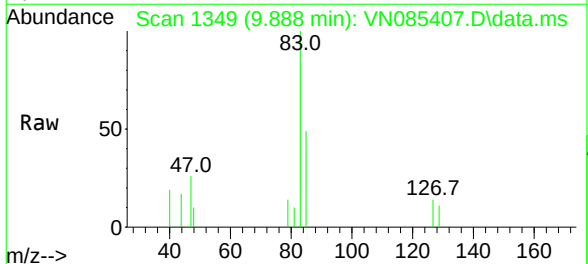
Instrument :  
MSVOA\_N  
ClientSampleId :  
28612

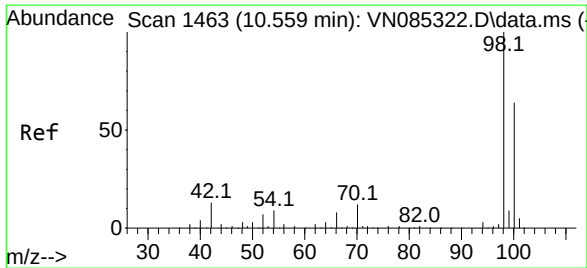
Tgt Ion: 78 Resp: 212459  
Ion Ratio Lower Upper  
78 100  
77 25.4 19.0 28.4



#47  
Bromodichloromethane  
Concen: 0.876 ug/l  
RT: 9.888 min Scan# 1349  
Delta R.T. 0.006 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

Tgt Ion: 83 Resp: 2977  
Ion Ratio Lower Upper  
83 100  
85 49.5 51.0 76.4#  
127 14.3 5.8 8.6#





#50

Toluene-d8

Concen: 51.331 ug/l

RT: 10.565 min Scan# 1463

Delta R.T. 0.006 min

Lab File: VN085407.D

Acq: 09 Jan 2025 14:28

Instrument :

MSVOA\_N

ClientSampleId :

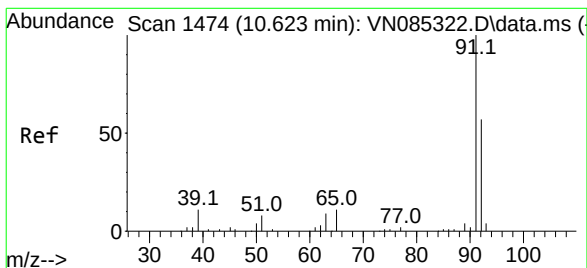
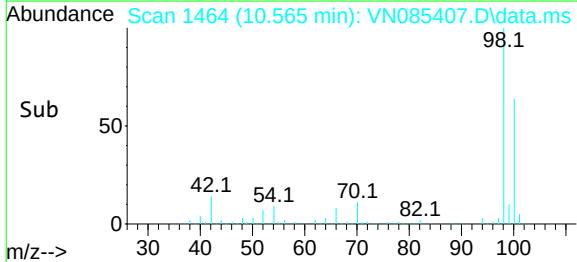
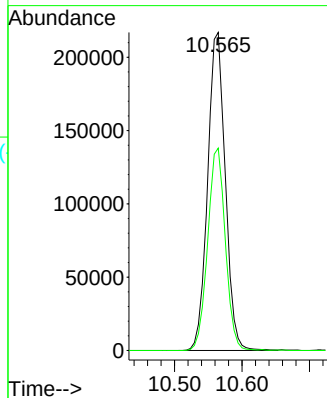
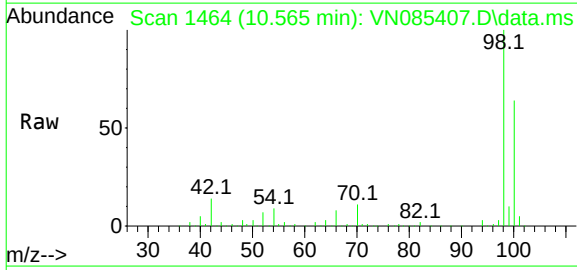
28612

Tgt Ion: 98 Resp: 394272

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



#52

Toluene

Concen: 33.922 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. 0.000 min

Lab File: VN085407.D

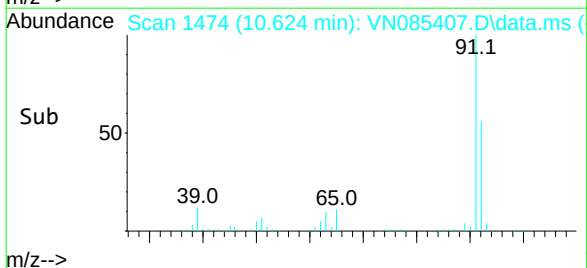
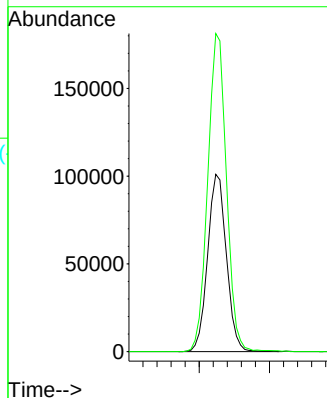
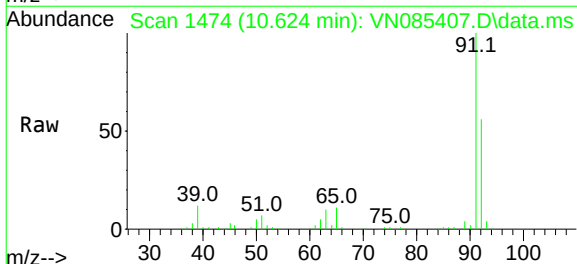
Acq: 09 Jan 2025 14:28

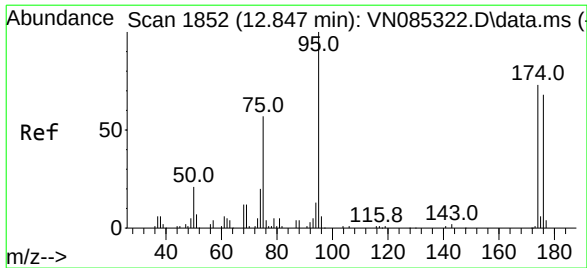
Tgt Ion: 92 Resp: 187157

Ion Ratio Lower Upper

92 100

91 178.9 140.2 210.4

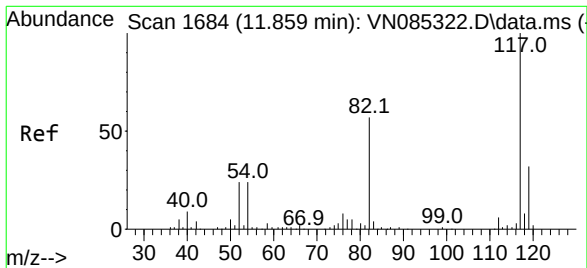
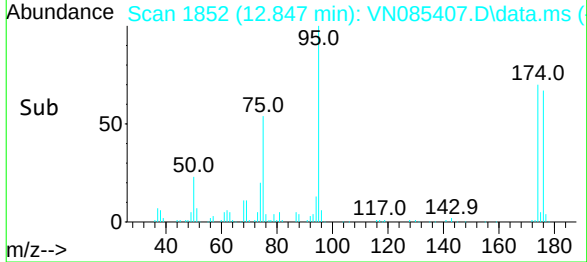
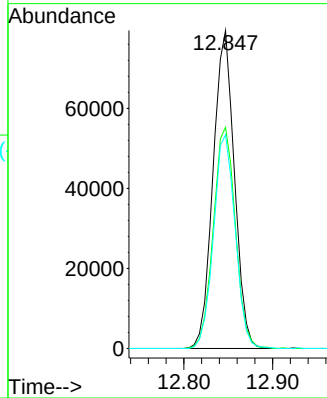
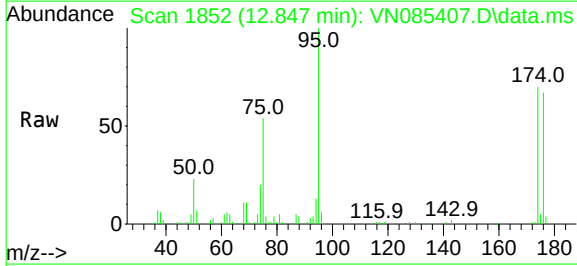




#62  
4-Bromofluorobenzene  
Concen: 51.911 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

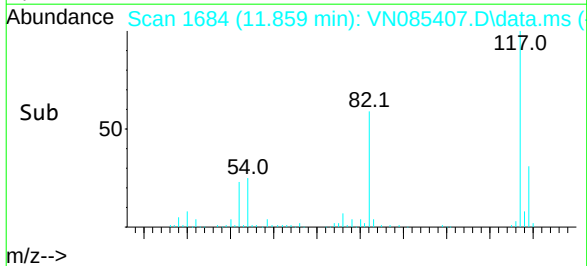
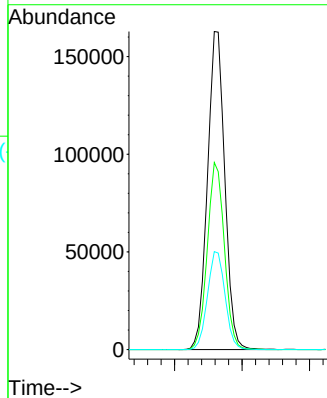
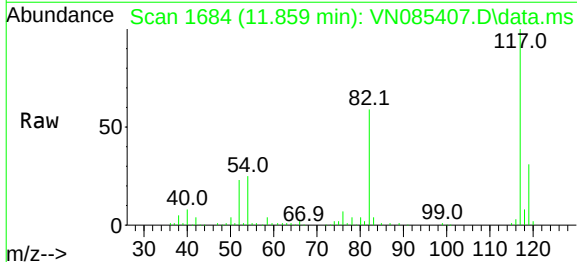
Instrument :  
MSVOA\_N  
ClientSampleId :  
28612

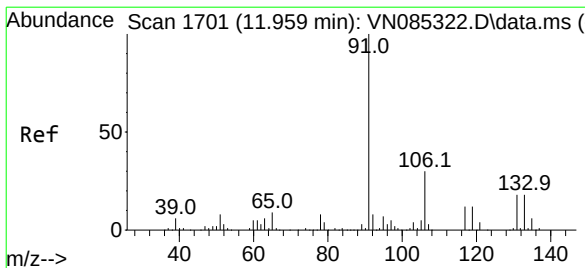
Tgt Ion: 95 Resp: 132422  
Ion Ratio Lower Upper  
95 100  
174 72.1 0.0 143.2  
176 68.3 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.859 min Scan# 1684  
Delta R.T. 0.000 min  
Lab File: VN085407.D  
Acq: 09 Jan 2025 14:28

Tgt Ion: 117 Resp: 290431  
Ion Ratio Lower Upper  
117 100  
82 58.8 45.7 68.5  
119 30.8 25.8 38.8





#67

Ethyl Benzene

Concen: 9.389 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085407.D

Acq: 09 Jan 2025 14:28

Instrument :

MSVOA\_N

ClientSampleId :

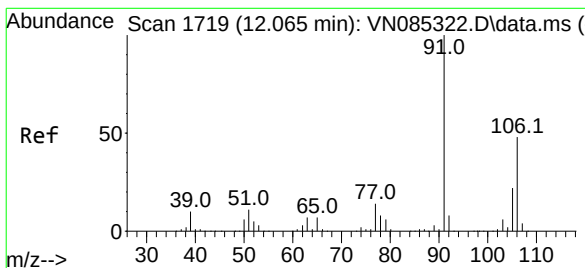
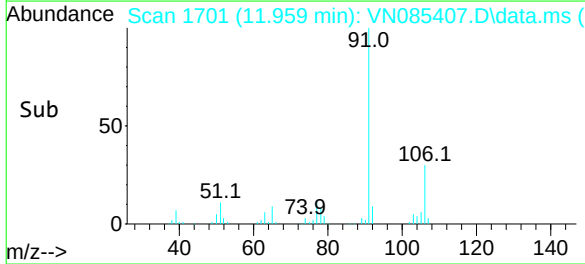
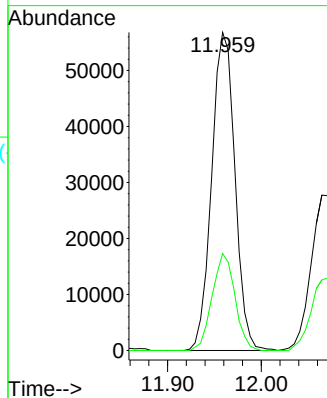
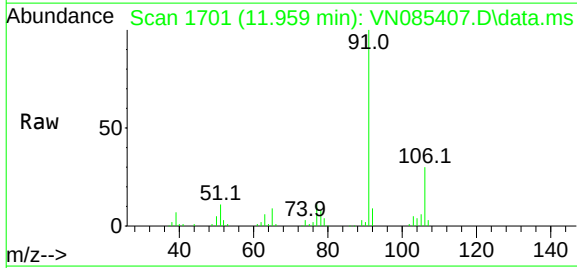
28612

Tgt Ion: 91 Resp: 97995

Ion Ratio Lower Upper

91 100

106 30.5 24.0 36.0



#68

m/p-Xylenes

Concen: 6.847 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085407.D

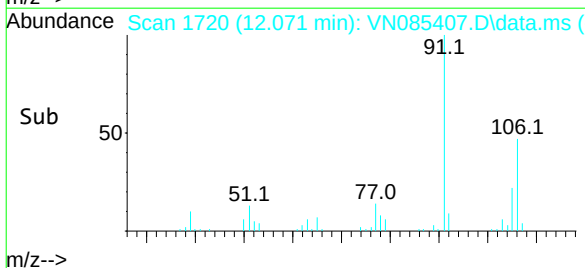
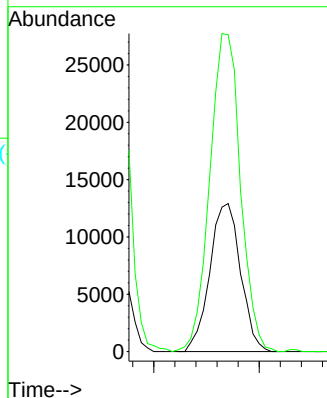
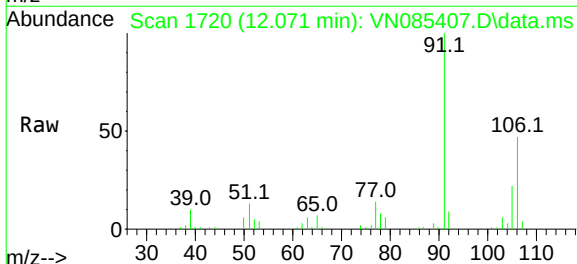
Acq: 09 Jan 2025 14:28

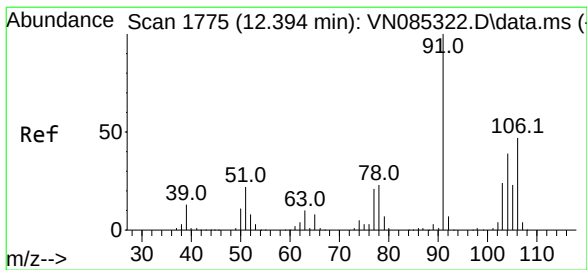
Tgt Ion: 106 Resp: 26155

Ion Ratio Lower Upper

106 100

91 214.1 165.2 247.8





#69

o-Xylene

Concen: 10.407 ug/l

RT: 12.394 min Scan# 17

Delta R.T. 0.000 min

Lab File: VN085407.D

Acq: 09 Jan 2025 14:28

Instrument :

MSVOA\_N

ClientSampleId :

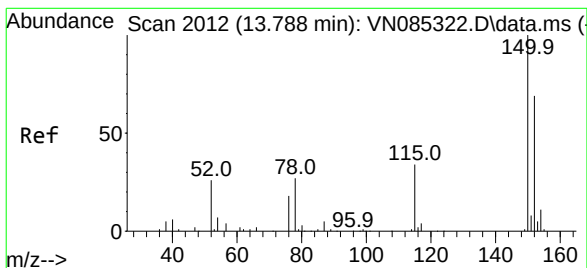
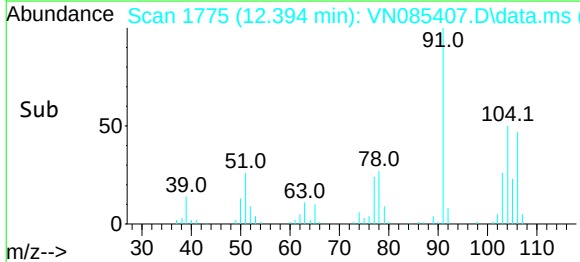
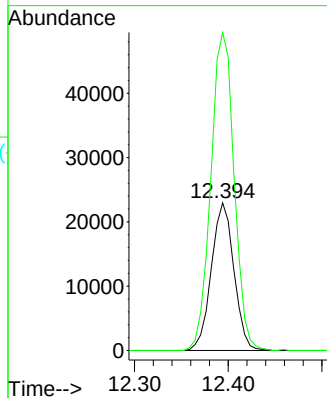
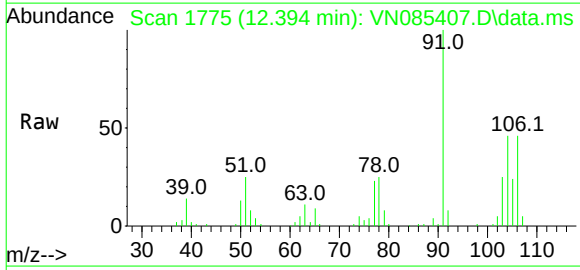
28612

Tgt Ion:106 Resp: 38453

Ion Ratio Lower Upper

106 100

91 221.9 107.3 321.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085407.D

Acq: 09 Jan 2025 14:28

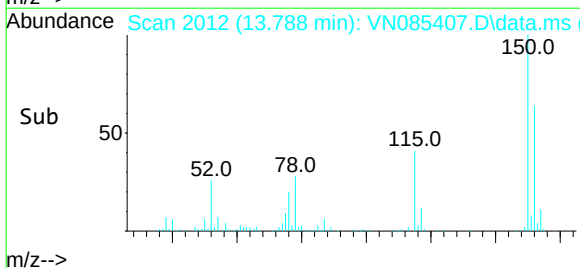
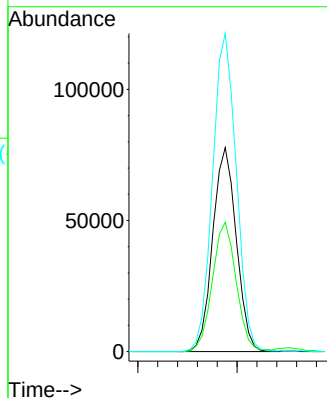
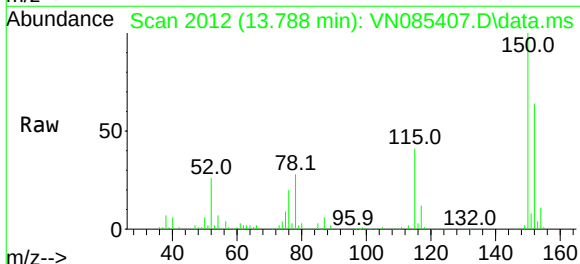
Tgt Ion:152 Resp: 128447

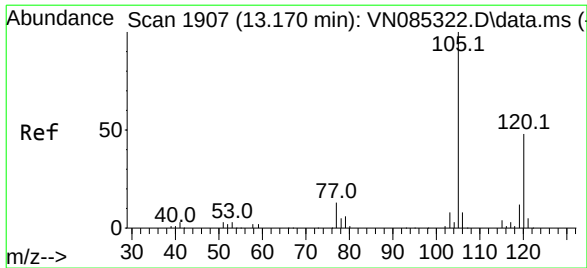
Ion Ratio Lower Upper

152 100

115 64.3 30.4 91.3

150 157.2 0.0 345.0





#80

1,3,5-Trimethylbenzene

Concen: 1.921 ug/l

RT: 13.165 min Scan# 19

Delta R.T. -0.006 min

Lab File: VN085407.D

Acq: 09 Jan 2025 14:28

Instrument :

MSVOA\_N

ClientSampleId :

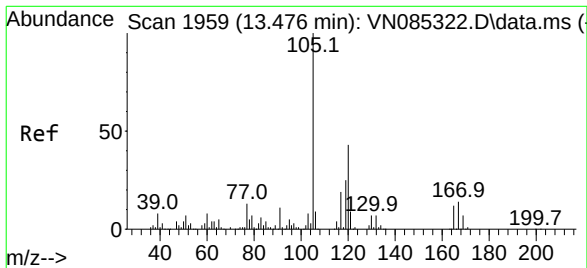
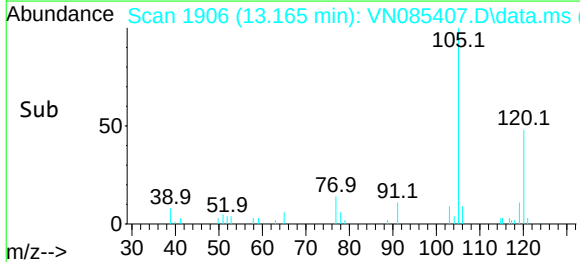
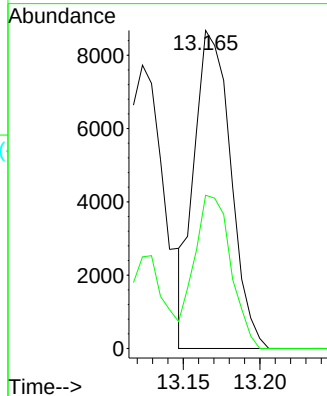
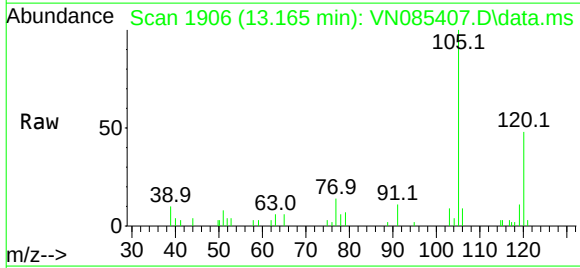
28612

Tgt Ion:105 Resp: 14351

Ion Ratio Lower Upper

105 100

120 48.2 24.0 72.0



#84

1,2,4-Trimethylbenzene

Concen: 0.697 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085407.D

Acq: 09 Jan 2025 14:28

Tgt Ion:105 Resp: 5183

Ion Ratio Lower Upper

105 100

120 44.5 21.7 65.1

