

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031725\  
 Data File : VX045305.D  
 Acq On : 17 Mar 2025 15:02  
 Operator : JC/MD  
 Sample : PB167134ZHE#02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB167134ZHE#02

Quant Time: Mar 18 01:28:04 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022825W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 28 06:45:16 2025  
 Response via : Initial Calibration

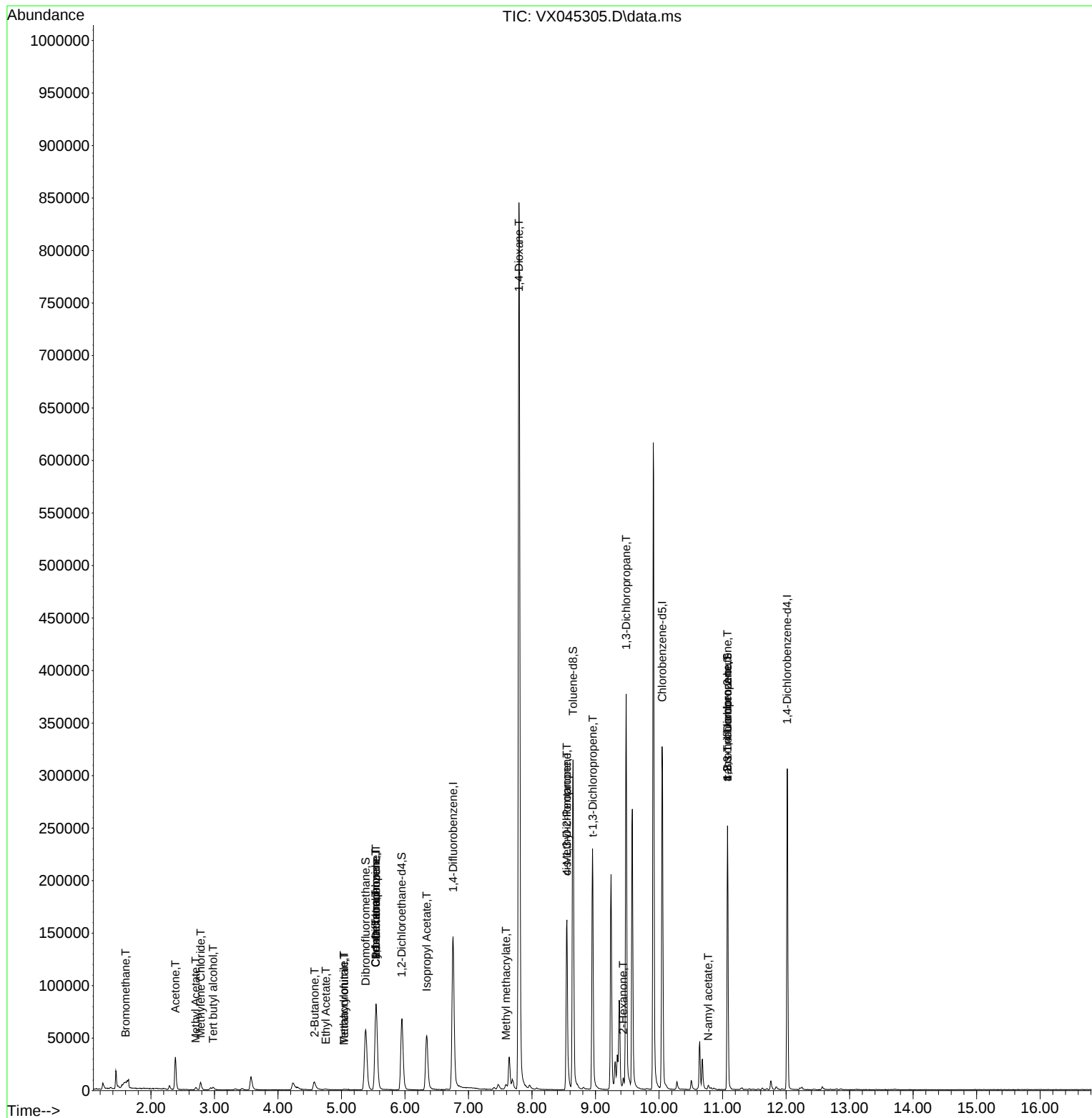
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 73166               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 146460              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 135826              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 56296               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.946          | 65   | 65374               | 56.172 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 112.340% |        |        |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 50338               | 51.400 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 102.800% |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 184630              | 52.002 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 104.000% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 63378               | 53.869 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 107.740% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 1.599          | 94   | 216                 | 0.491  | ug/l   | 82       |
| 11) Tert butyl alcohol        | 2.977          | 59   | 2797                | 12.688 | ug/l   | 95       |
| 16) Acetone                   | 2.386          | 43   | 33892               | 62.766 | ug/l   | 97       |
| 18) Methyl Acetate            | 2.703          | 43   | 2990                | 2.302  | ug/l   | 97       |
| 20) Methylene Chloride        | 2.782          | 84   | 3308                | 3.093  | ug/l   | 85       |
| 25) 2-Butanone                | 4.574          | 43   | 16006               | 19.693 | ug/l   | 97       |
| 29) Tetrahydrofuran           | 5.044          | 42   | 404                 | 0.740  | ug/l # | 63       |
| 31) Cyclohexane               | 5.538          | 56   | 2131                | 1.346  | ug/l # | 49       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 6796                | 5.060  | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.751          | 43   | 2659                | 1.536  | ug/l # | 83       |
| 38) Carbon Tetrachloride      | 5.538          | 117  | 8040                | 5.896  | ug/l # | 14       |
| 41) Methacrylonitrile         | 5.038          | 41   | 470                 | 0.502  | ug/l # | 48       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 76473               | 29.883 | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.592          | 41   | 2780                | 2.165  | ug/l # | 15       |
| 49) 1,4-Dioxane               | 7.793          | 88   | 42                  | 1.551  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 62570               | 36.414 | ug/l # | 52       |
| 53) t-1,3-Dichloropropene     | 8.958          | 75   | 506                 | 0.400  | ug/l # | 42       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 25428               | 17.254 | ug/l # | 68       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 3206                | 1.808  | ug/l # | 43       |
| 59) 2-Hexanone                | 9.433          | 43   | 7167                | 5.757  | ug/l   | 88       |
| 74) N-amyl acetate            | 10.775         | 43   | 3155                | 1.530  | ug/l # | 49       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 36054               | 27.516 | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 36054               | 94.165 | ug/l # | 6        |
| -----                         |                |      |                     |        |        |          |

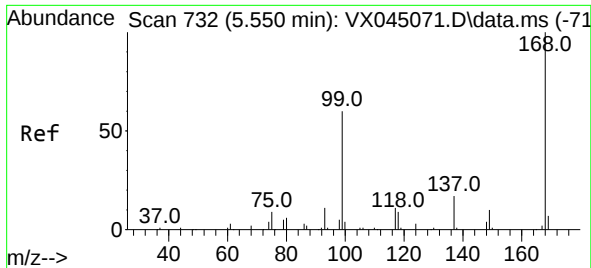
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031725\  
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Sample : PB167134ZHE#02  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
PB167134ZHE#02

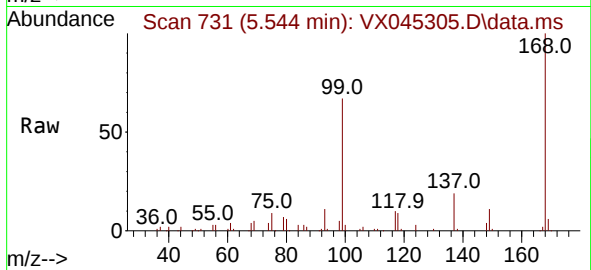
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022825W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 28 06:45:16 2025  
Response via : Initial Calibration



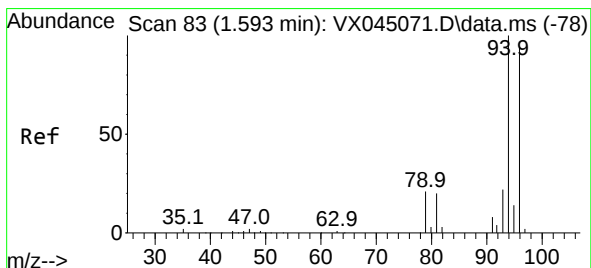
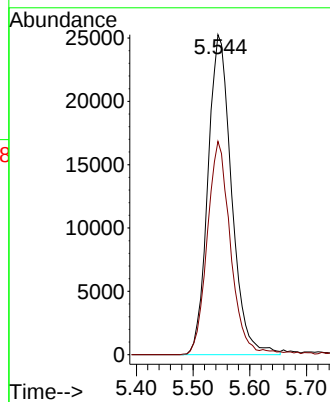
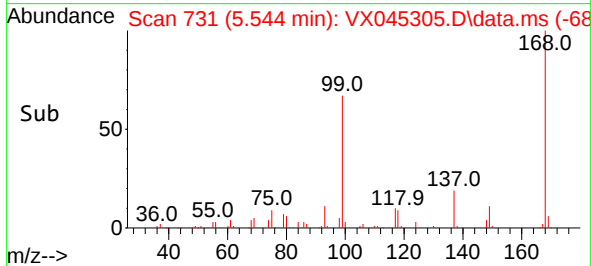


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

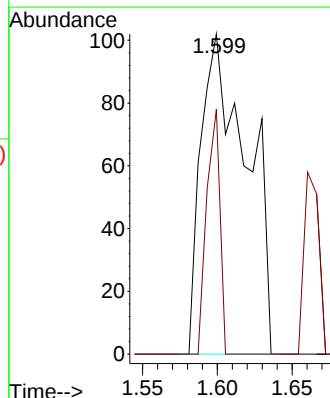
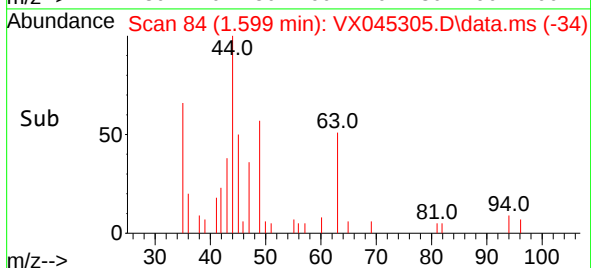
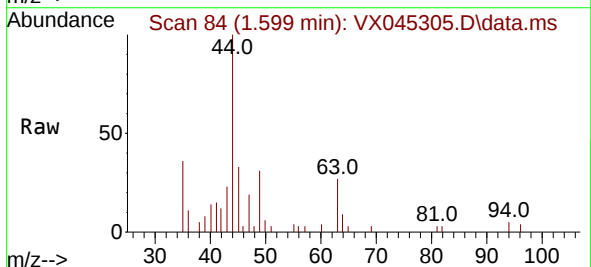


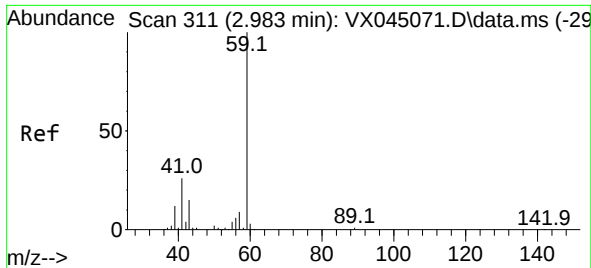
Tgt Ion:168 Resp: 73166  
Ion Ratio Lower Upper  
168 100  
99 66.7 48.2 72.4



#5  
Bromomethane  
Concen: 0.491 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 94 Resp: 216  
Ion Ratio Lower Upper  
94 100  
96 76.5 75.0 112.4

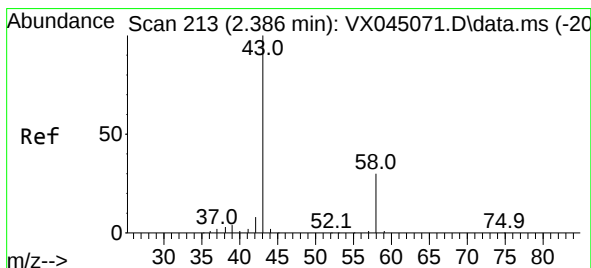
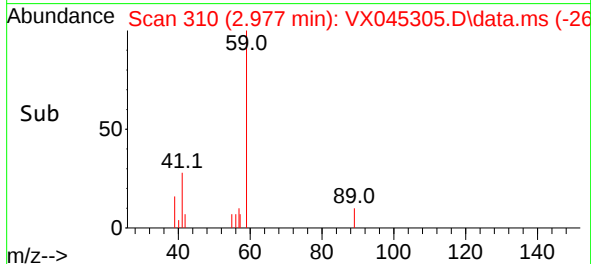
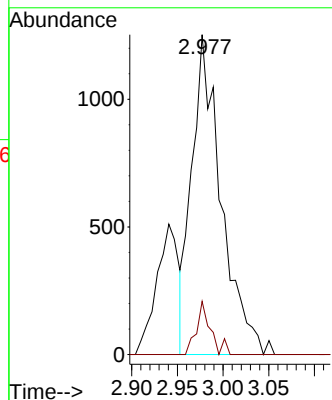
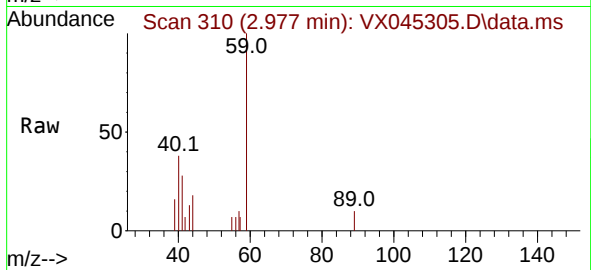




#11  
Tert butyl alcohol  
Concen: 12.688 ug/l  
RT: 2.977 min Scan# 311  
Delta R.T. -0.006 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

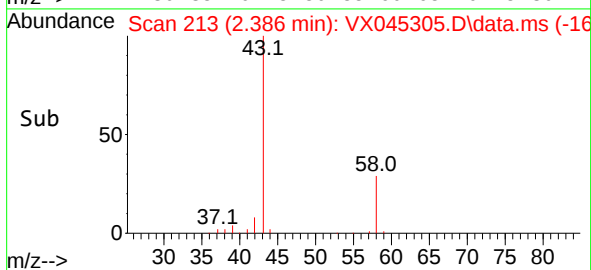
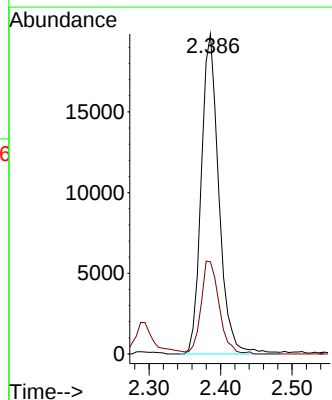
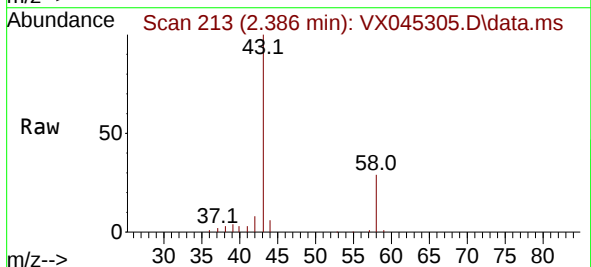
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

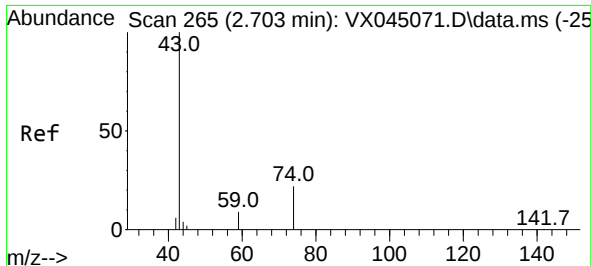
Tgt Ion: 59 Resp: 2797  
Ion Ratio Lower Upper  
59 100  
57 8.0 7.8 11.8



#16  
Acetone  
Concen: 62.766 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.000 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 43 Resp: 33892  
Ion Ratio Lower Upper  
43 100  
58 28.8 24.2 36.4

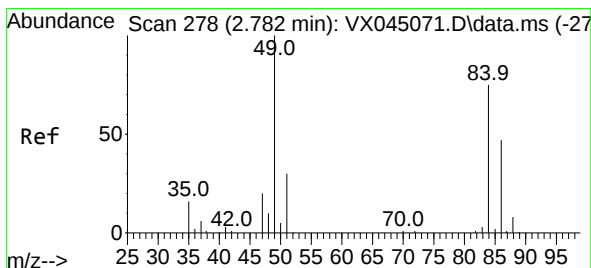
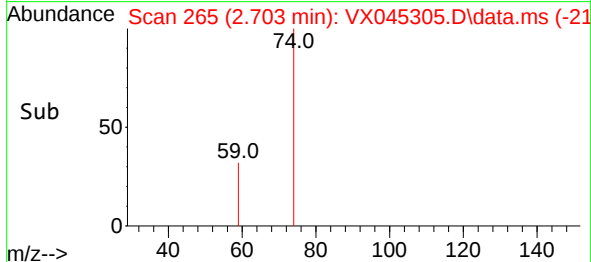
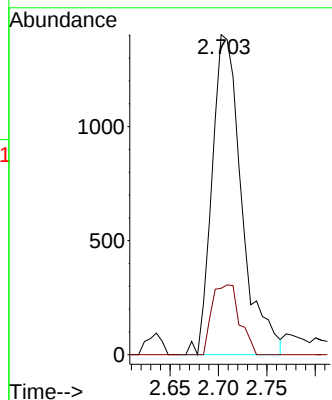
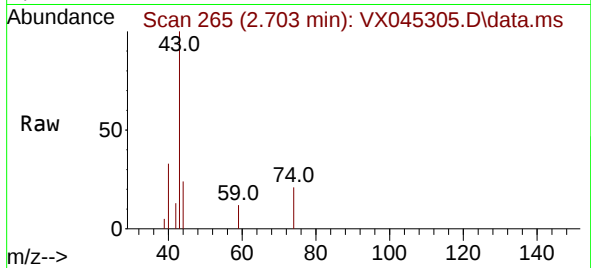




#18  
Methyl Acetate  
Concen: 2.302 ug/l  
RT: 2.703 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

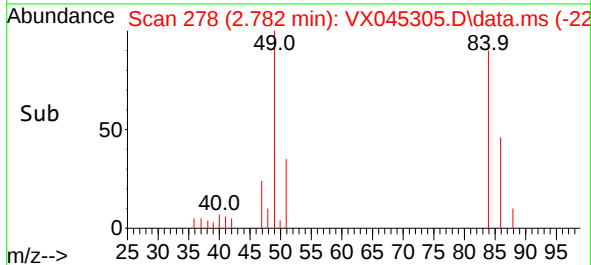
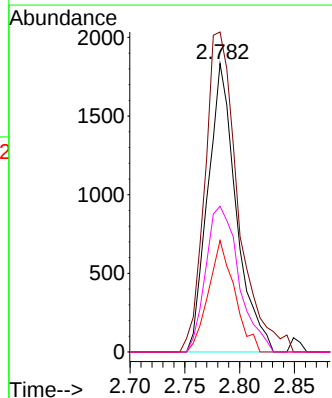
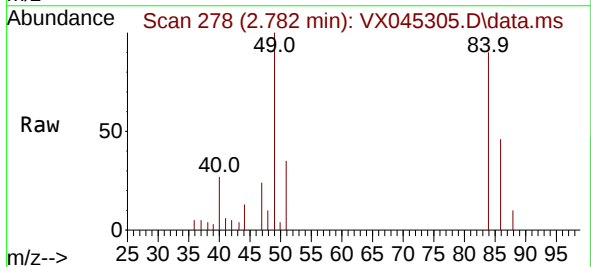
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

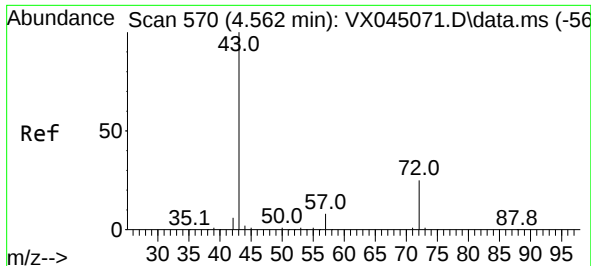
Tgt Ion: 43 Resp: 2990  
Ion Ratio Lower Upper  
43 100  
74 20.2 17.4 26.2



#20  
Methylene Chloride  
Concen: 3.093 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 84 Resp: 3308  
Ion Ratio Lower Upper  
84 100  
49 110.9 106.5 159.7  
51 38.6 32.1 48.1  
86 50.5 50.0 75.0

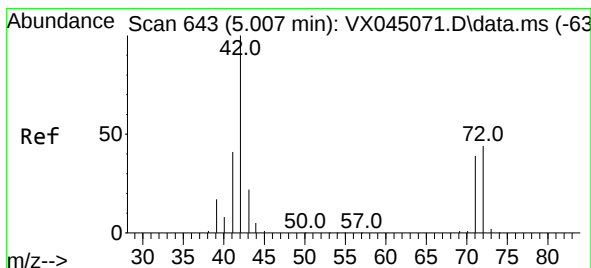
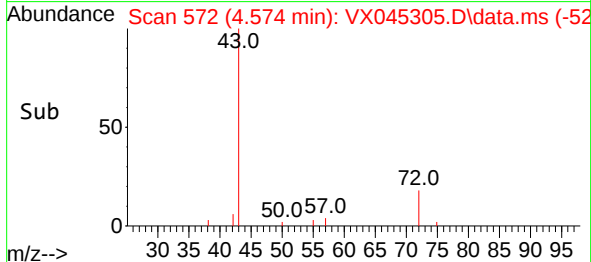
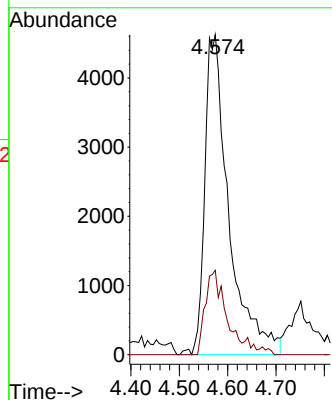
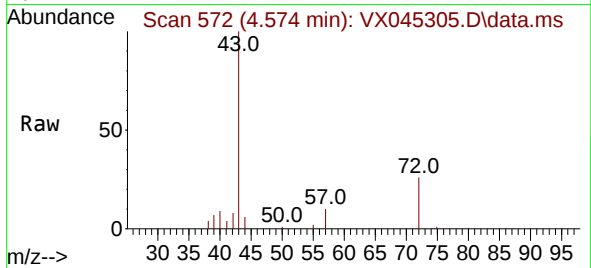




#25  
2-Butanone  
Concen: 19.693 ug/l  
RT: 4.574 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

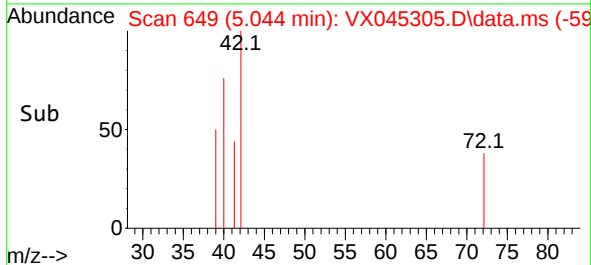
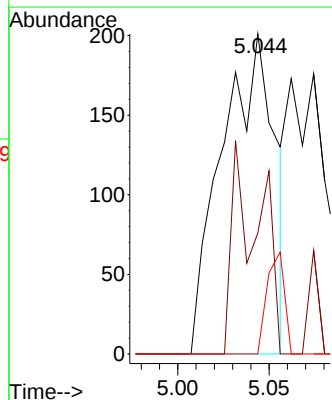
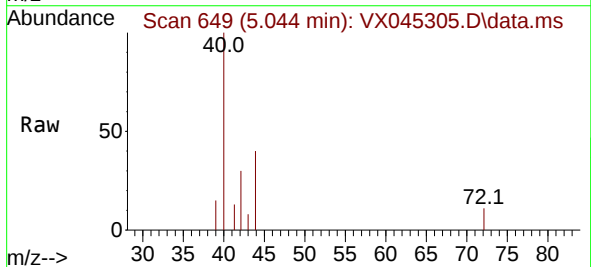
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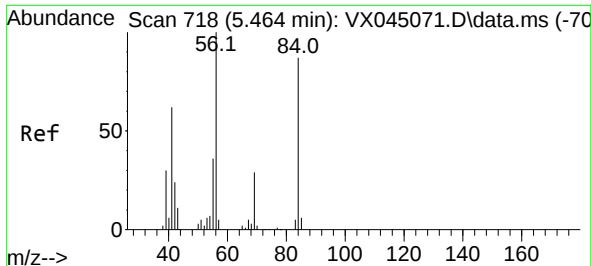
Tgt Ion: 43 Resp: 16006  
Ion Ratio Lower Upper  
43 100  
72 26.4 20.0 30.0



#29  
Tetrahydrofuran  
Concen: 0.740 ug/l  
RT: 5.044 min Scan# 649  
Delta R.T. 0.037 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 42 Resp: 404  
Ion Ratio Lower Upper  
42 100  
72 34.7 34.1 51.1  
71 0.0 31.4 47.0#

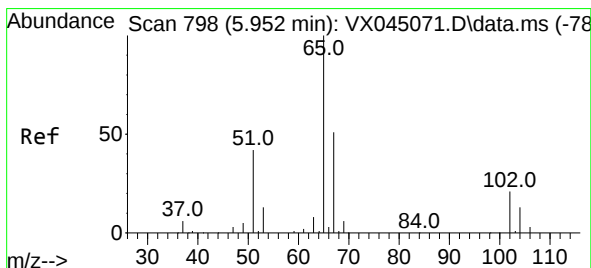
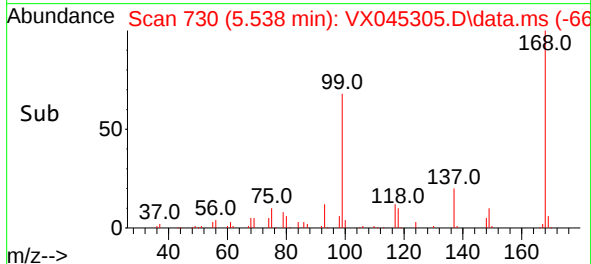
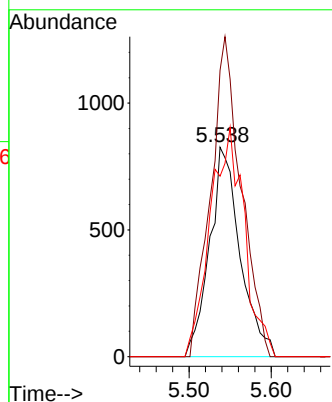
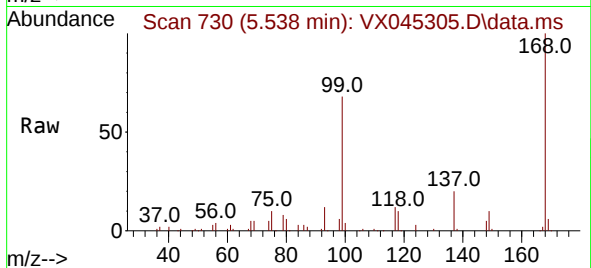




#31  
Cyclohexane  
Concen: 1.346 ug/l  
RT: 5.538 min Scan# 718  
Delta R.T. 0.073 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

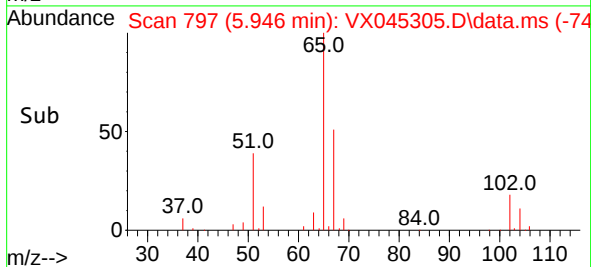
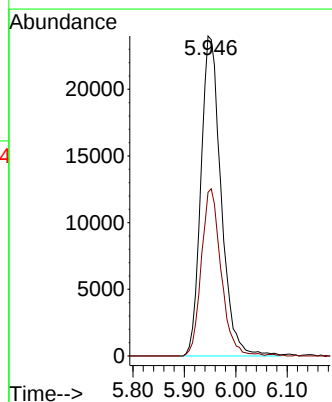
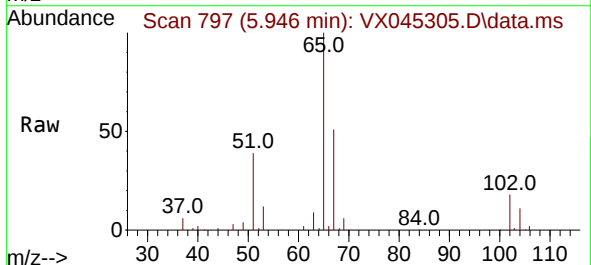
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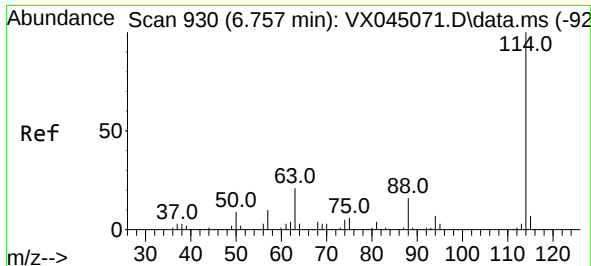
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Ion Ratio Lower Upper  
56 100  
69 136.7 23.4 35.2#  
84 86.2 69.4 104.2



#33  
1,2-Dichloroethane-d4  
Concen: 56.172 ug/l  
RT: 5.946 min Scan# 797  
Delta R.T. -0.006 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 65 Resp: 65374  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 106.2

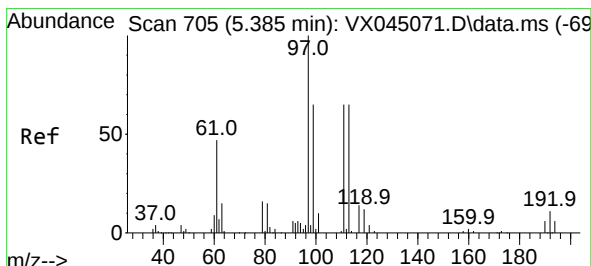
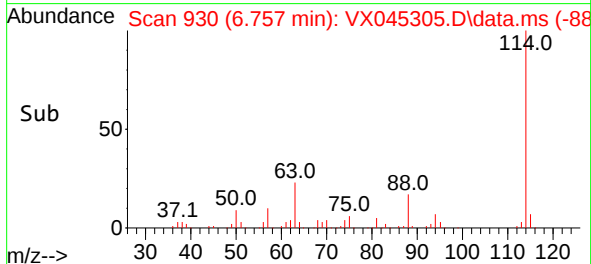
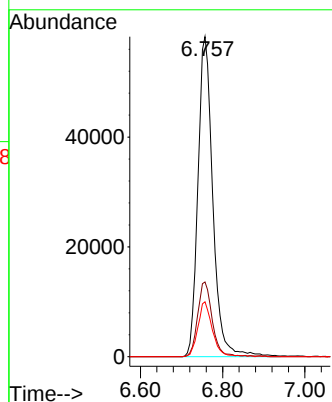
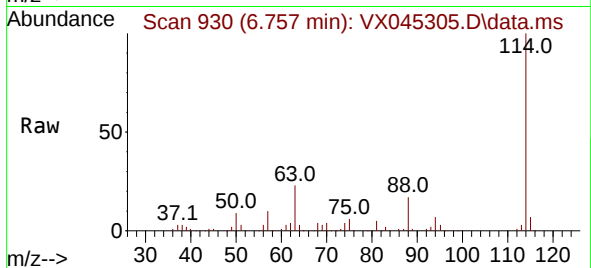




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

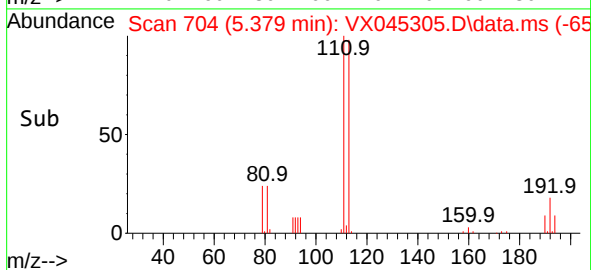
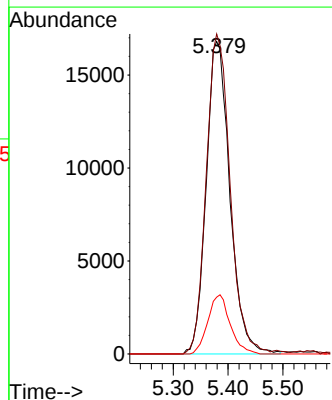
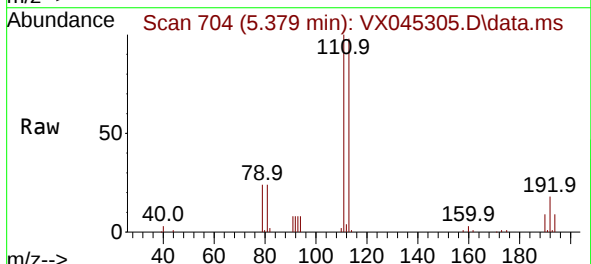
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PB167134ZHE#02

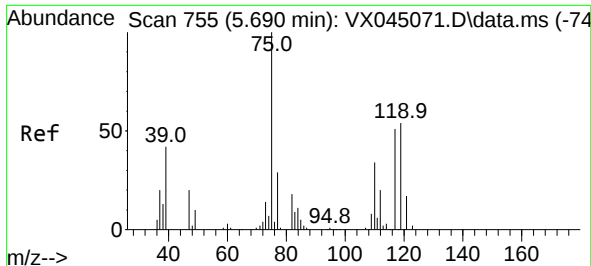
Tgt Ion:114 Resp: 146460  
Ion Ratio Lower Upper  
114 100  
63 23.4 0.0 41.8  
88 17.1 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 51.400 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.006 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion:113 Resp: 50338  
Ion Ratio Lower Upper  
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111 103.1 81.8 122.6  
192 17.9 14.3 21.5

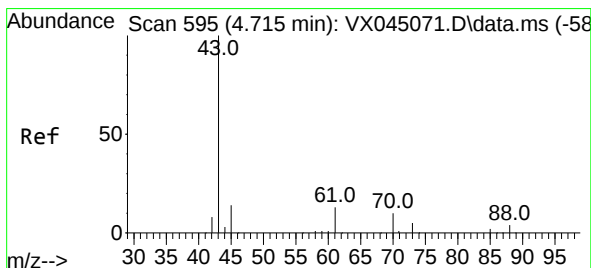
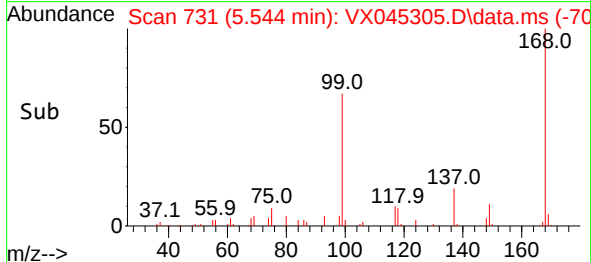
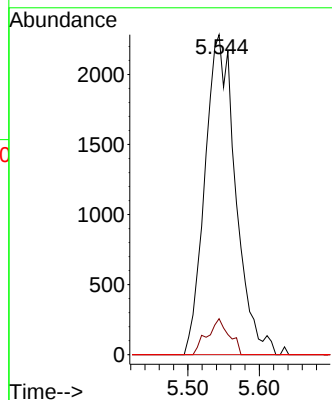
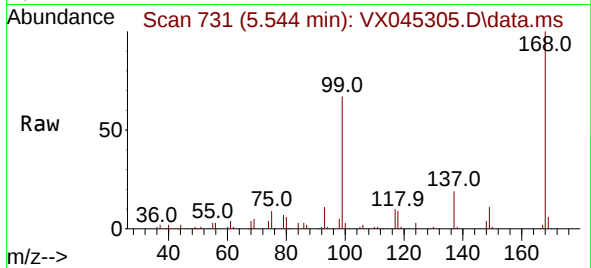




#36  
1,1-Dichloropropene  
Concen: 5.060 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

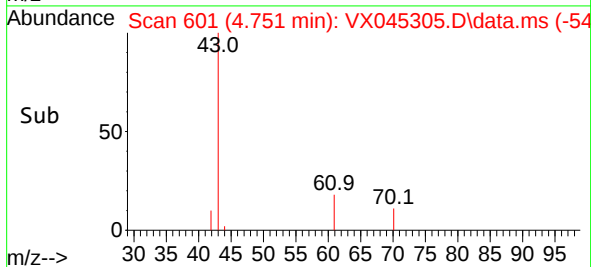
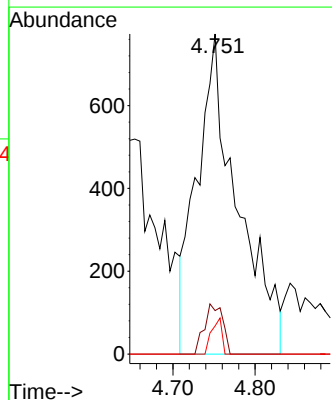
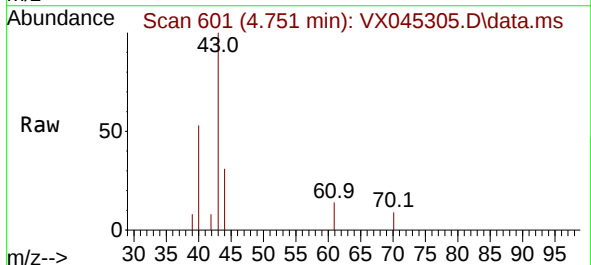
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

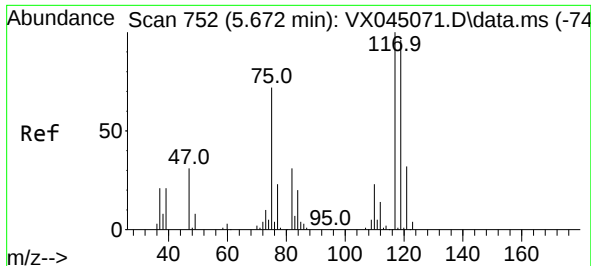
Tgt Ion: 75 Resp: 6796  
Ion Ratio Lower Upper  
75 100  
110 8.0 16.9 50.6#  
77 0.0 24.5 36.7#



#37  
Ethyl Acetate  
Concen: 1.536 ug/l  
RT: 4.751 min Scan# 601  
Delta R.T. 0.037 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

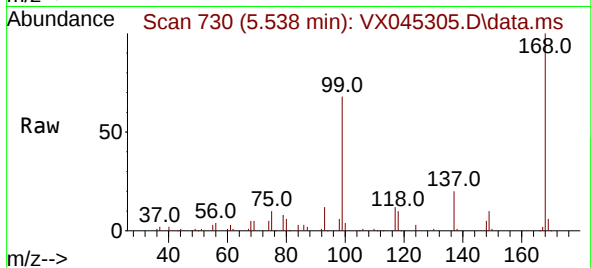
Tgt Ion: 43 Resp: 2659  
Ion Ratio Lower Upper  
43 100  
61 7.0 10.8 16.2#  
70 2.8 7.7 11.5#



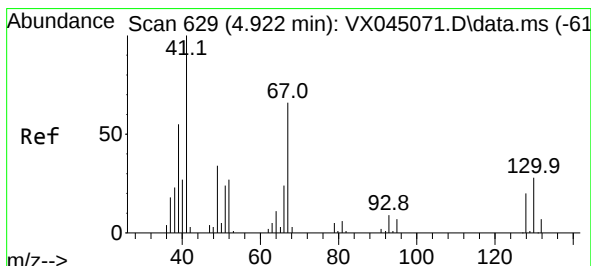
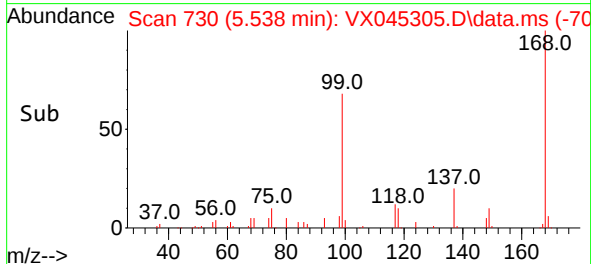
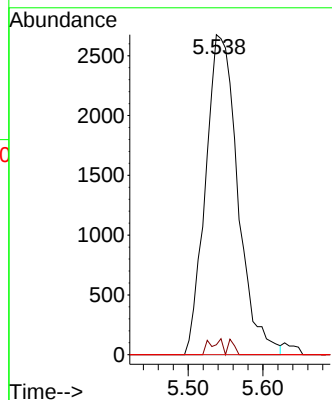


#38  
Carbon Tetrachloride  
Concen: 5.896 ug/l  
RT: 5.538 min Scan# 711  
Delta R.T. -0.134 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

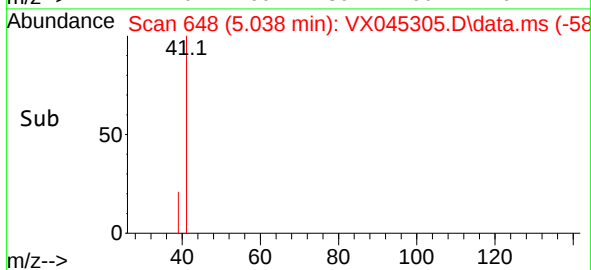
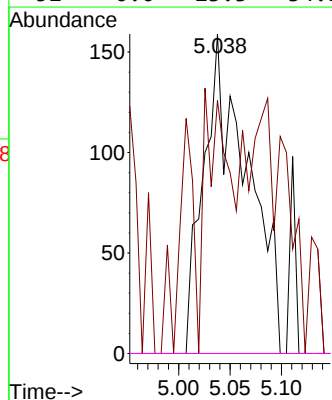
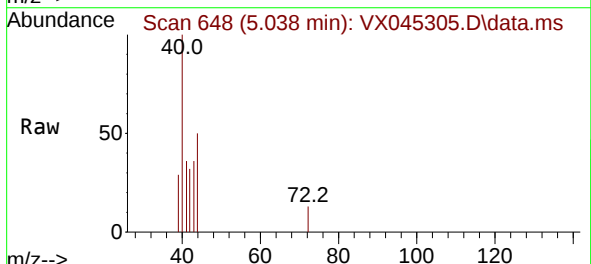


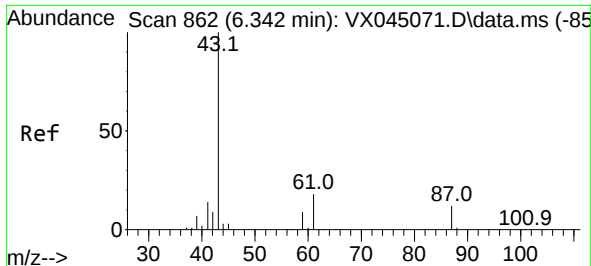
Tgt Ion:117 Resp: 8040  
Ion Ratio Lower Upper  
117 100  
119 3.1 76.7 115.1#  
121 0.0 25.5 38.3#



#41  
Methacrylonitrile  
Concen: 0.502 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.116 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 41 Resp: 470  
Ion Ratio Lower Upper  
41 100  
39 46.8 44.6 67.0  
67 0.0 53.9 80.9#  
52 0.0 23.3 34.9#

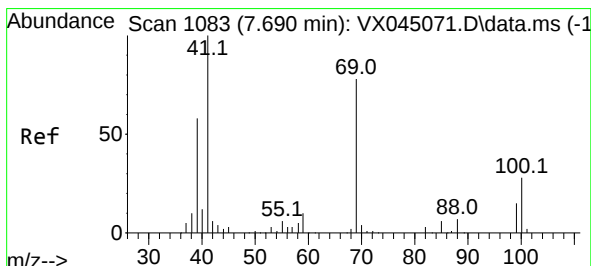
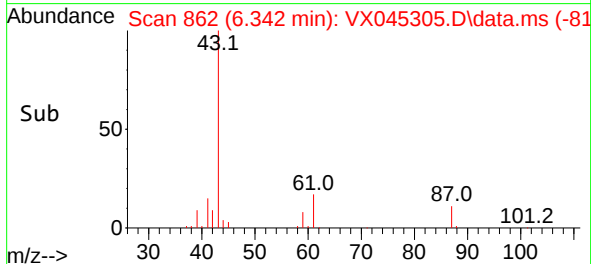
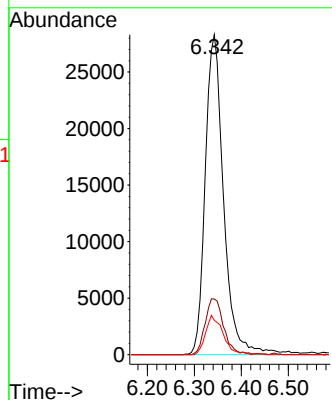
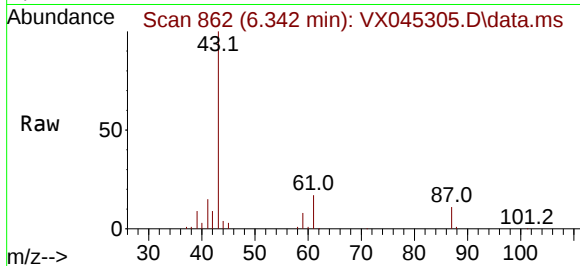




#43  
Isopropyl Acetate  
Concen: 29.883 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

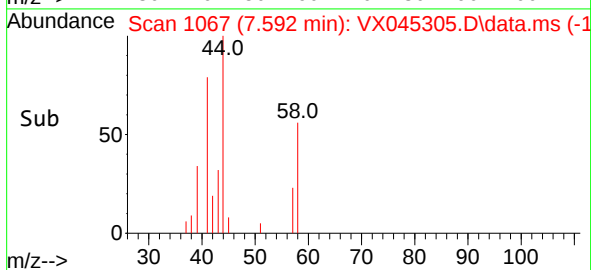
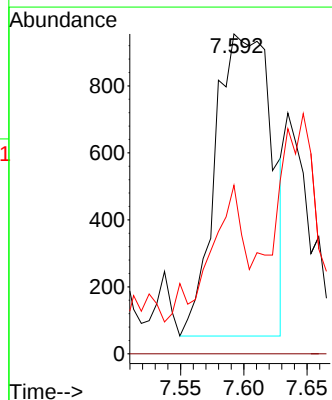
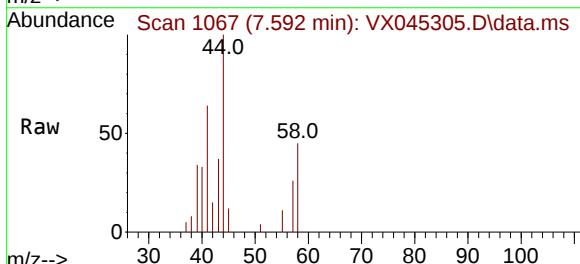
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

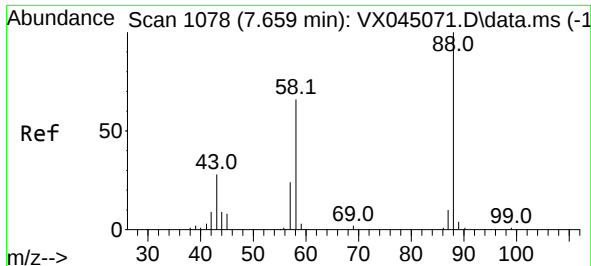
Tgt Ion: 43 Resp: 76473  
Ion Ratio Lower Upper  
43 100  
61 17.7 14.9 22.3  
87 11.6 9.4 14.2



#48  
Methyl methacrylate  
Concen: 2.165 ug/l  
RT: 7.592 min Scan# 1067  
Delta R.T. -0.098 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 41 Resp: 2780  
Ion Ratio Lower Upper  
41 100  
69 0.0 63.0 94.6#  
39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 1.551 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.134 min

Lab File: VX045305.D

Acq: 17 Mar 2025 15:02

Instrument :

MSVOA\_X

ClientSampleId :

PB167134ZHE#02

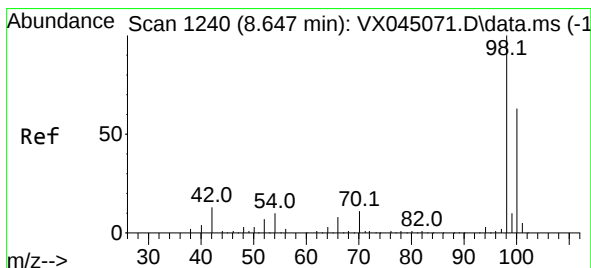
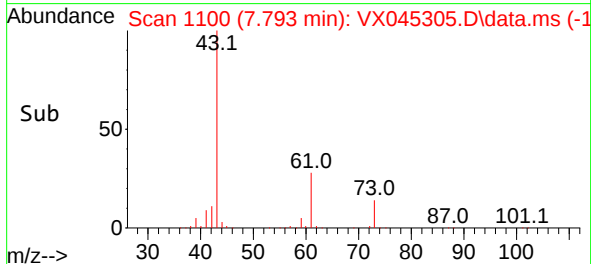
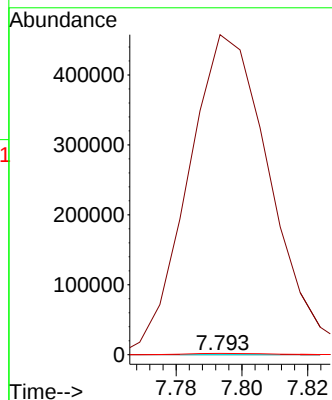
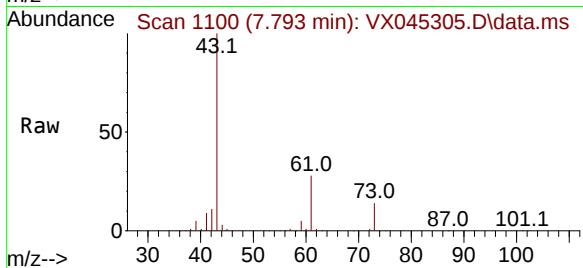
Tgt Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 1949783.3 28.7 43.1#

58 8109.5 55.8 83.8#



#50

Toluene-d8

Concen: 52.002 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045305.D

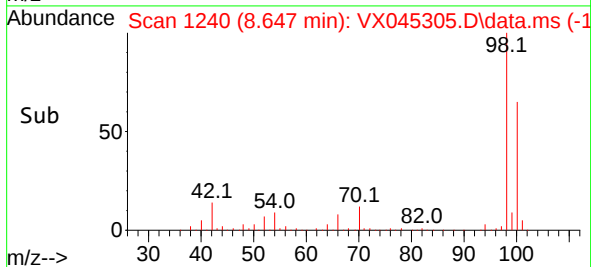
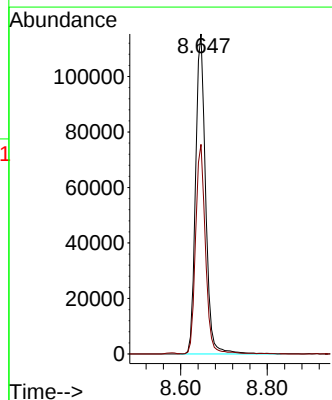
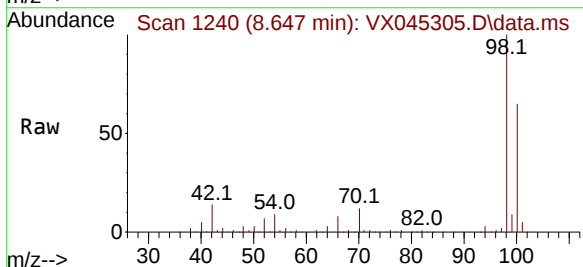
Acq: 17 Mar 2025 15:02

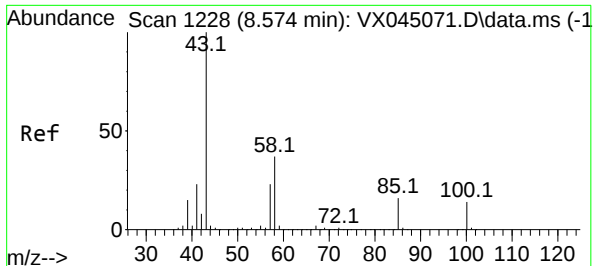
Tgt Ion: 98 Resp: 184630

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0

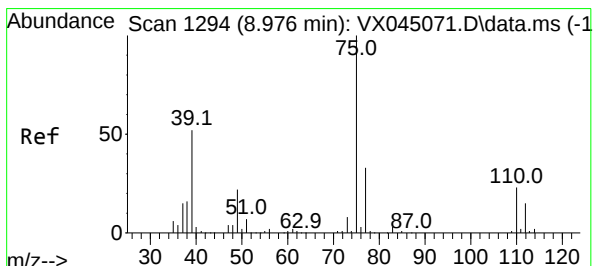
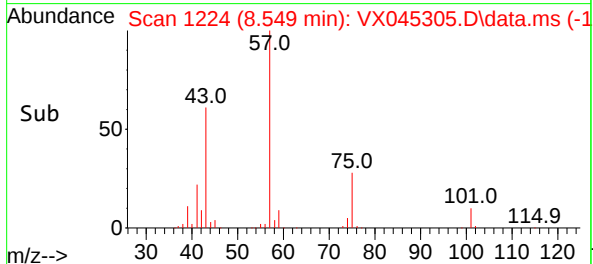
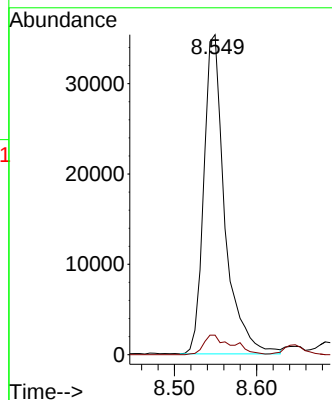
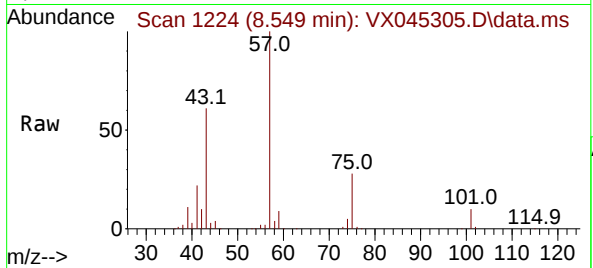




#51  
4-Methyl-2-Pentanone  
Concen: 36.414 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

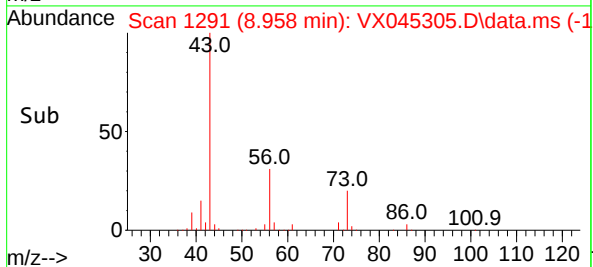
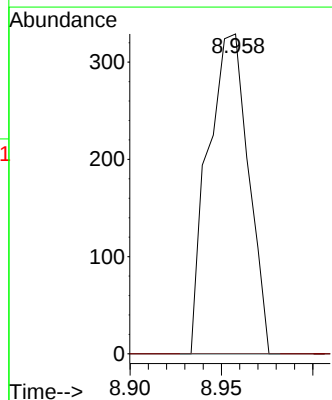
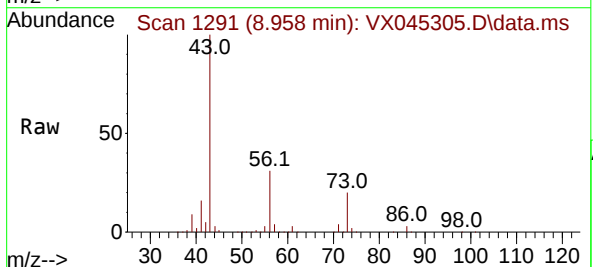
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

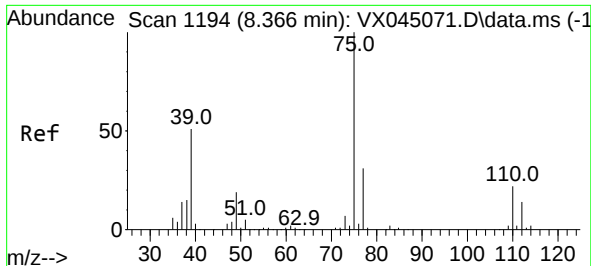
Tgt Ion: 43 Resp: 62570  
Ion Ratio Lower Upper  
43 100  
58 8.3 29.2 43.8#



#53  
t-1,3-Dichloropropene  
Concen: 0.400 ug/l  
RT: 8.958 min Scan# 1291  
Delta R.T. -0.018 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 75 Resp: 506  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.5 39.7#

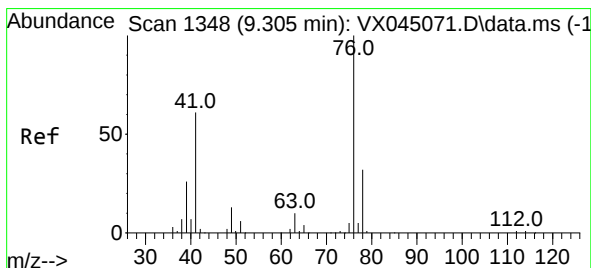
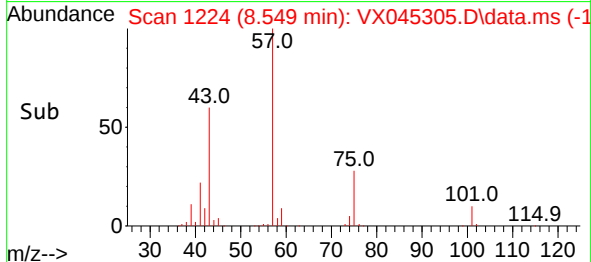
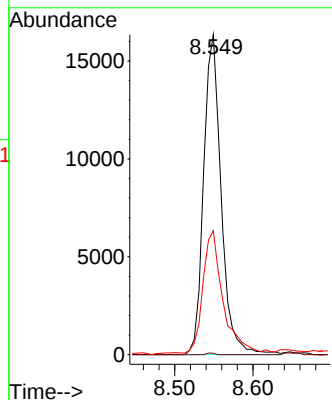
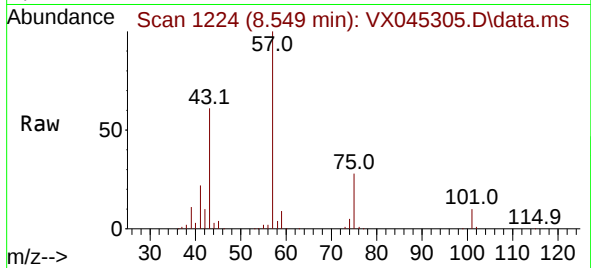




#54  
 cis-1,3-Dichloropropene  
 Concen: 17.254 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX045305.D  
 Acq: 17 Mar 2025 15:02

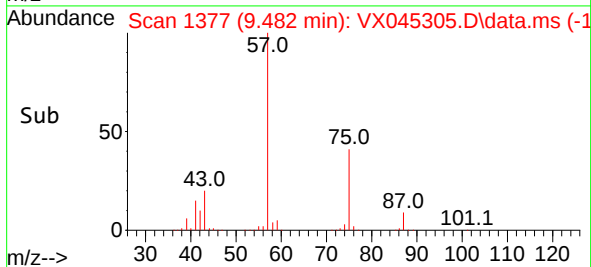
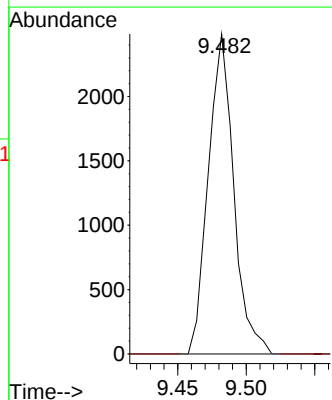
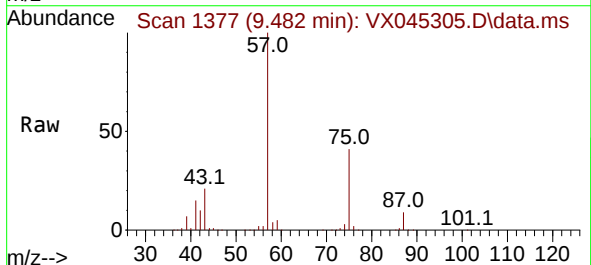
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB167134ZHE#02

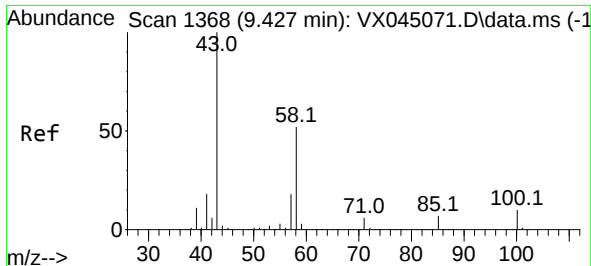
Tgt Ion: 75 Resp: 25428  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 24.7 37.1#  
 39 38.2 40.7 61.1#



#57  
 1,3-Dichloropropane  
 Concen: 1.808 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX045305.D  
 Acq: 17 Mar 2025 15:02

Tgt Ion: 76 Resp: 3206  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.5 38.3#

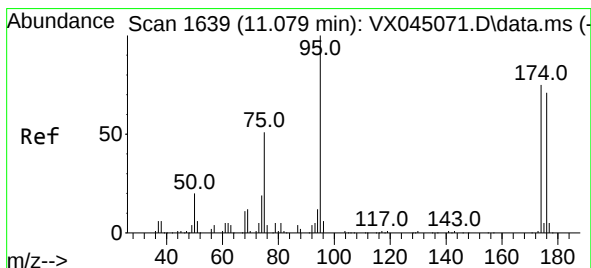
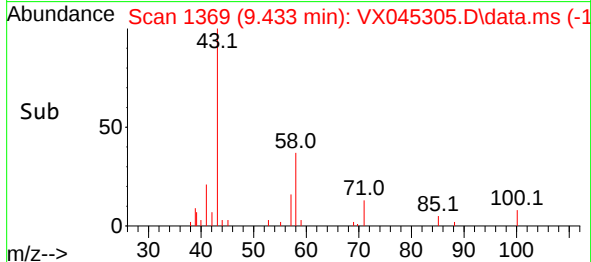
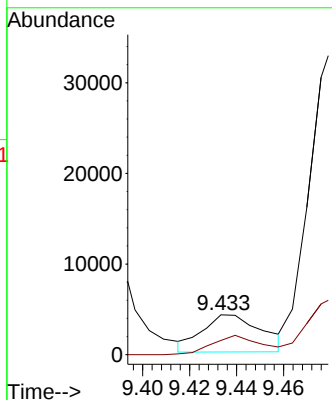
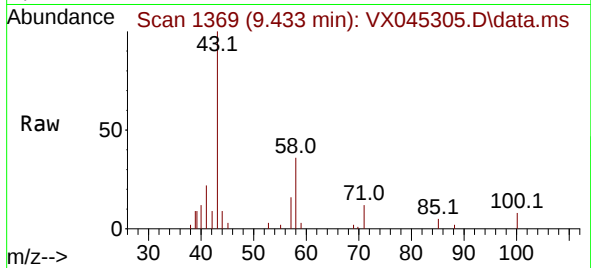




#59  
2-Hexanone  
Concen: 5.757 ug/l  
RT: 9.433 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

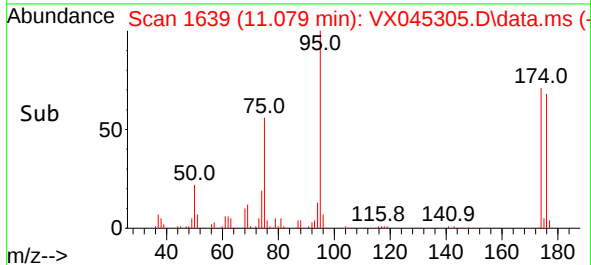
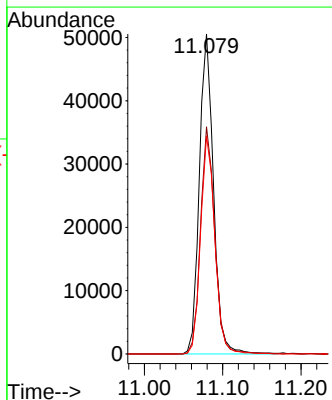
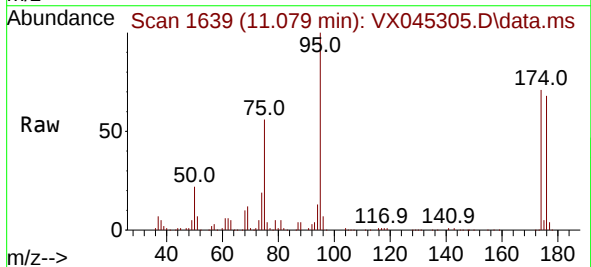
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB167134ZHE#02

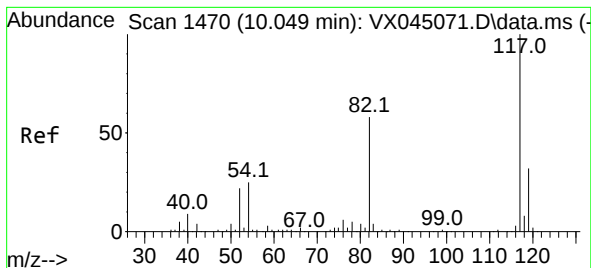
Tgt Ion: 43 Resp: 7167  
Ion Ratio Lower Upper  
43 100  
58 43.3 25.9 77.6



#62  
4-Bromofluorobenzene  
Concen: 53.869 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

Tgt Ion: 95 Resp: 63378  
Ion Ratio Lower Upper  
95 100  
174 71.6 0.0 148.2  
176 68.6 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045305.D

Acq: 17 Mar 2025 15:02

Instrument :

MSVOA\_X

ClientSampleId :

PB167134ZHE#02

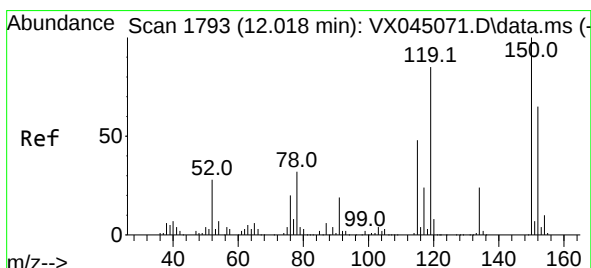
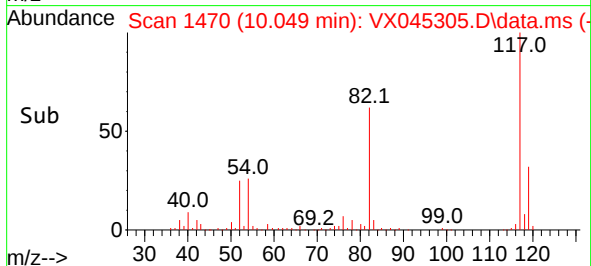
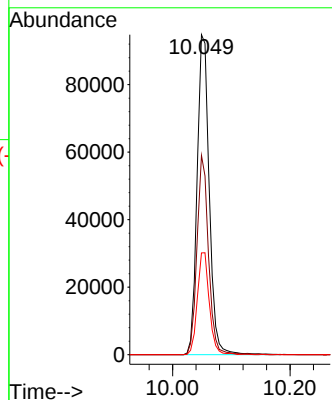
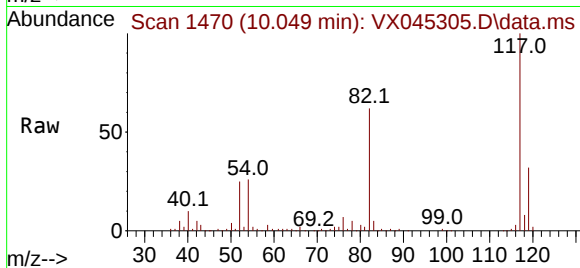
Tgt Ion:117 Resp: 135826

Ion Ratio Lower Upper

117 100

82 62.3 46.3 69.5

119 31.8 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045305.D

Acq: 17 Mar 2025 15:02

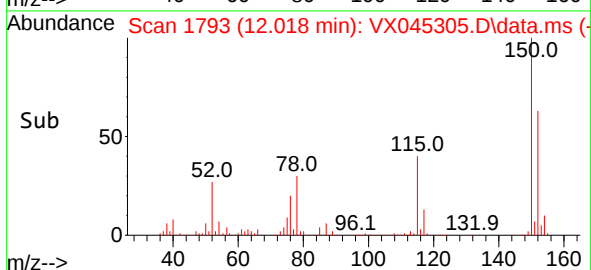
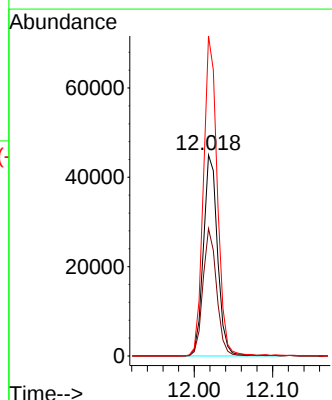
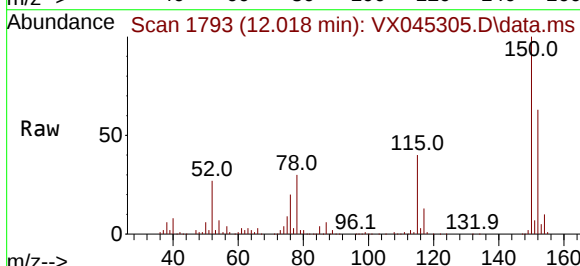
Tgt Ion:152 Resp: 56296

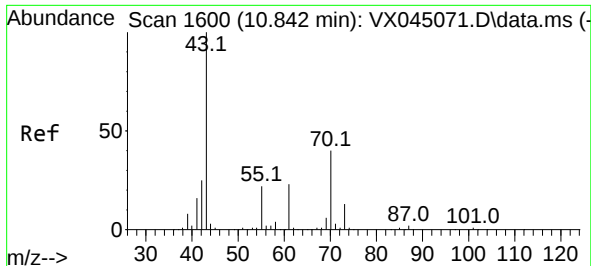
Ion Ratio Lower Upper

152 100

115 61.1 44.2 132.6

150 156.1 0.0 349.0

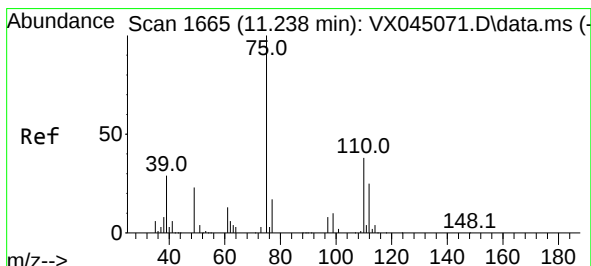
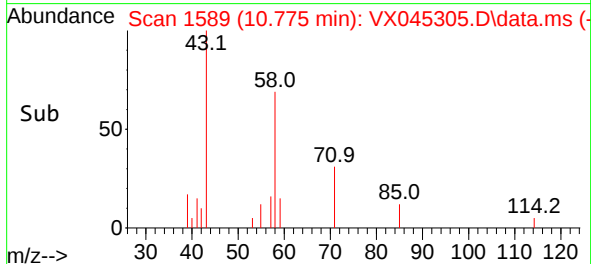
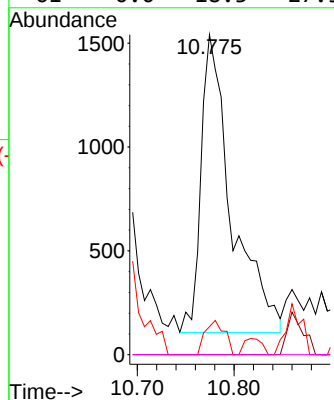
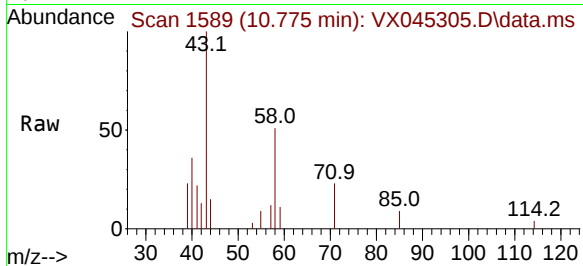




#74  
N-amy1 acetate  
Concen: 1.530 ug/l  
RT: 10.775 min Scan# 1639  
Delta R.T. -0.067 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

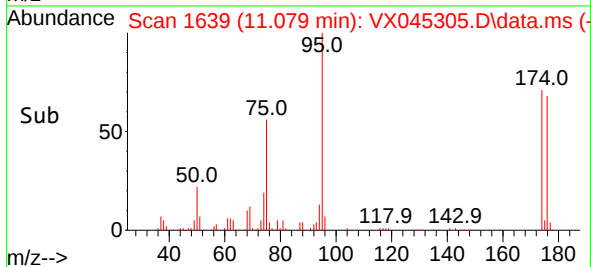
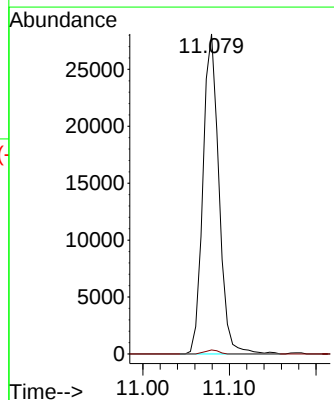
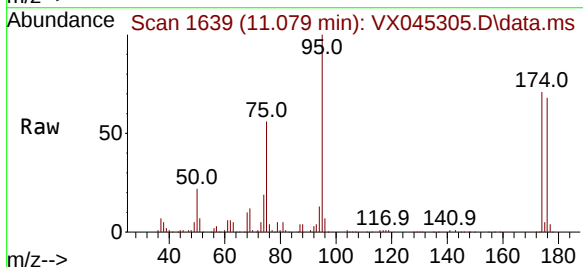
Instrument : MSVOA\_X  
ClientSampleId : PB167134ZHE#02

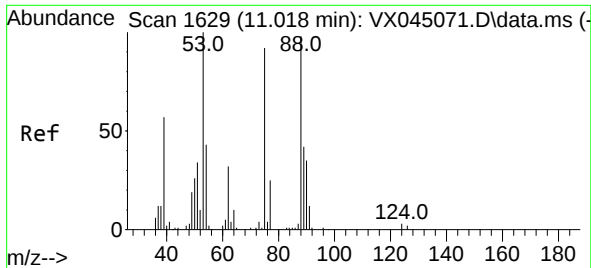
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3155  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 31.8  | 47.6# |
| 55       | 7.3   | 18.3  | 27.5# |
| 61       | 0.0   | 18.3  | 27.5# |



#76  
1,2,3-Trichloropropane  
Concen: 27.516 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX045305.D  
Acq: 17 Mar 2025 15:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 36054 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 1.1   | 20.7  | 62.1# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 94.165 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX045305.D  
 Acq: 17 Mar 2025 15:02

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB167134ZHE#02

Tgt Ion: 75 Resp: 36054  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 88.5 132.7#  
 89 0.0 36.2 54.4#

