

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101425\  
 Data File : VX048159.D  
 Acq On : 14 Oct 2025 12:49  
 Operator : JC/MD  
 Sample : Q3311-14  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 15 02:42:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 17 06:39:58 2025  
 Response via : Initial Calibration

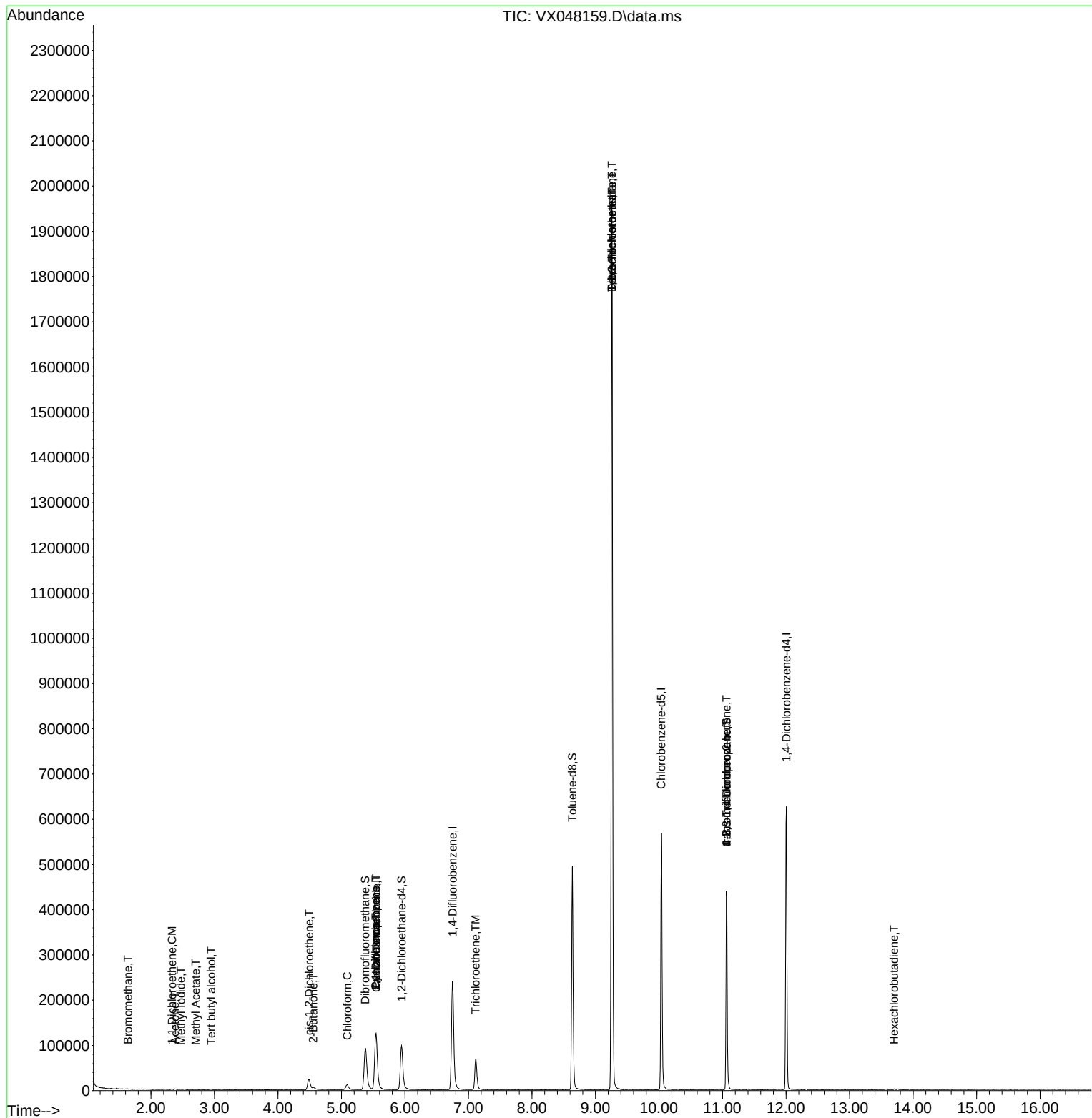
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 127304              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.751          | 114  | 263250              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.037         | 117  | 264360              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006         | 152  | 131679              | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.946          | 65   | 105919              | 52.271  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 104.540% |         |        |          |
| 35) Dibromofluoromethane      | 5.373          | 113  | 90563               | 51.296  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 102.600% |         |        |          |
| 50) Toluene-d8                | 8.635          | 98   | 291356              | 47.693  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 95.380%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 11.061         | 95   | 126098              | 54.389  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 108.780% |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         | Qvalue |          |
| 5) Bromomethane               | 1.636          | 94   | 279                 | 0.259   | ug/l   | 99       |
| 10) Methyl Iodide             | 2.471          | 142  | 695                 | 0.303   | ug/l # | 85       |
| 11) Tert butyl alcohol        | 2.947          | 59   | 345                 | 1.529   | ug/l # | 72       |
| 12) 1,1-Dichloroethene        | 2.331          | 96   | 427                 | 0.282   | ug/l # | 74       |
| 16) Acetone                   | 2.380          | 43   | 1754                | 1.991   | ug/l # | 78       |
| 18) Methyl Acetate            | 2.703          | 43   | 417                 | 0.213   | ug/l # | 54       |
| 25) 2-Butanone                | 4.556          | 43   | 9203                | 8.374   | ug/l   | 93       |
| 27) cis-1,2-Dichloroethene    | 4.489          | 96   | 17007               | 8.528   | ug/l   | 86       |
| 30) Chloroform                | 5.093          | 83   | 14541               | 4.476   | ug/l   | 95       |
| 31) Cyclohexane               | 5.538          | 56   | 2956                | 1.104   | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 5.538          | 75   | 10865               | 4.212   | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 13308               | 4.748   | ug/l # | 20       |
| 44) Trichloroethene           | 7.111          | 130  | 29470               | 15.557  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.256          | 97   | 3281                | 1.763   | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.256          | 129  | 364070              | 169.745 | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.256          | 164  | 364388              | 211.442 | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.061         | 75   | 66182               | 24.824  | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.061         | 75   | 66182               | 63.304  | ug/l # | 8        |
| 94) Hexachlorobutadiene       | 13.701         | 225  | 253                 | 0.263   | ug/l   | 84       |
| -----                         |                |      |                     |         |        |          |

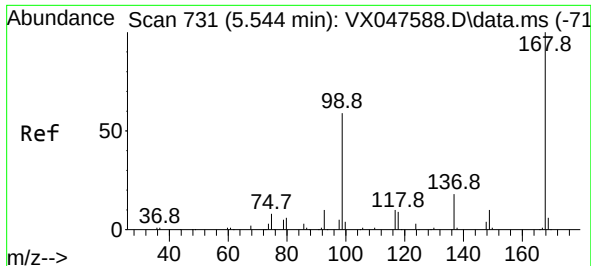
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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ClientSampleId :

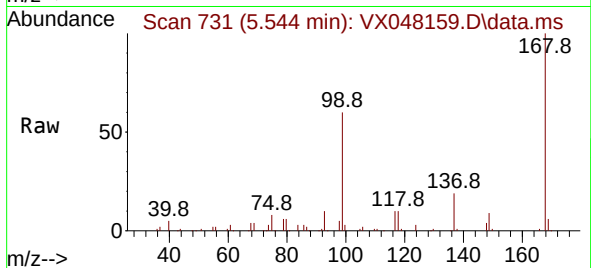
Quant Time: Oct 15 02:42:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 17 06:39:58 2025  
Response via : Initial Calibration



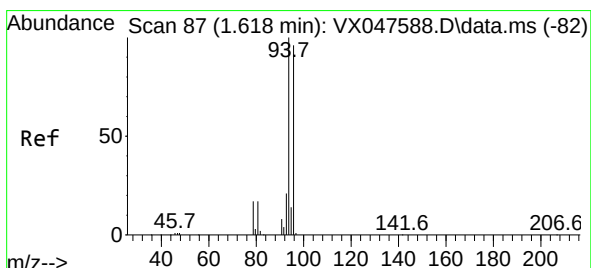
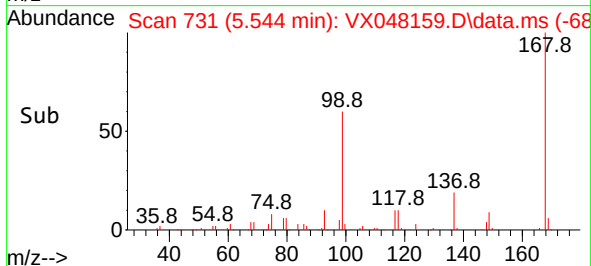
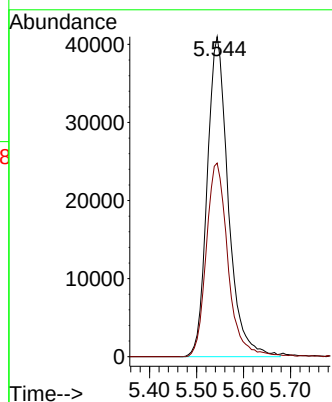


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Instrument :  
MSVOA\_X  
ClientSampleId :

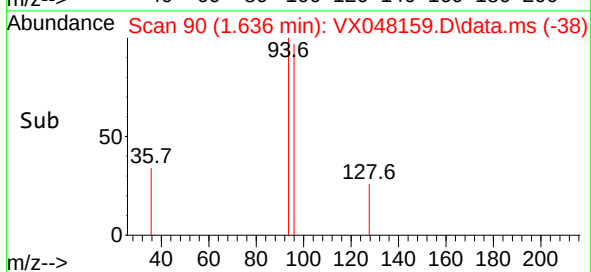
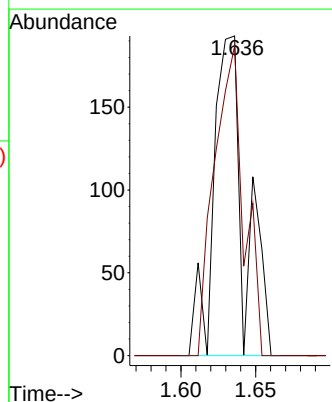
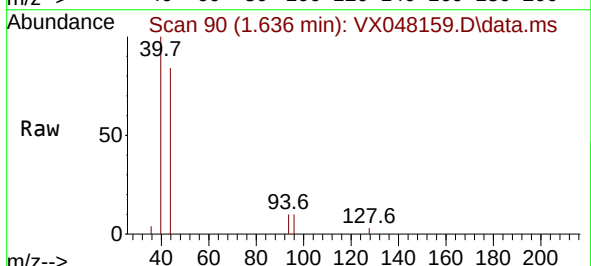


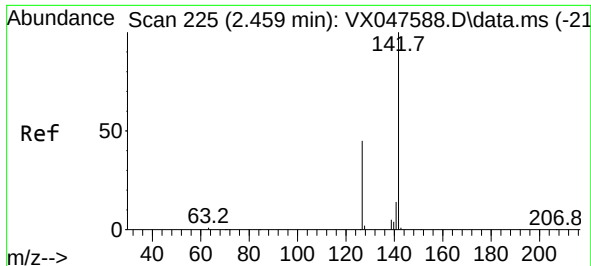
Tgt Ion:168 Resp: 127304  
Ion Ratio Lower Upper  
168 100  
99 60.5 48.8 73.2



#5  
Bromomethane  
Concen: 0.259 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. 0.018 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

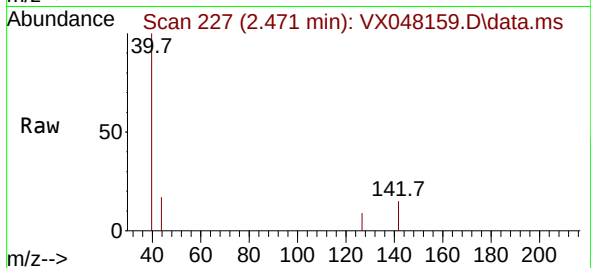
Tgt Ion: 94 Resp: 279  
Ion Ratio Lower Upper  
94 100  
96 96.9 76.6 115.0



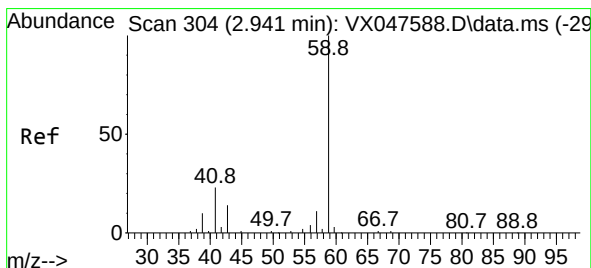
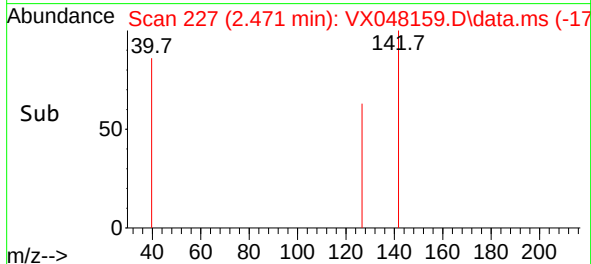
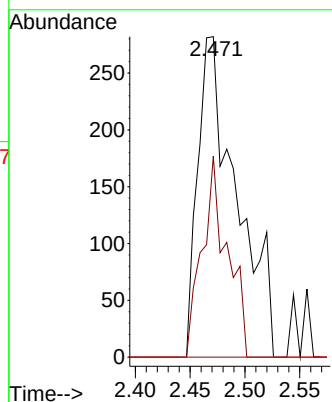


#10  
Methyl Iodide  
Concen: 0.303 ug/l  
RT: 2.471 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Instrument :  
MSVOA\_X  
ClientSampleId :

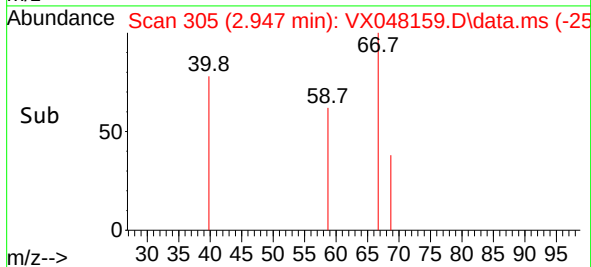
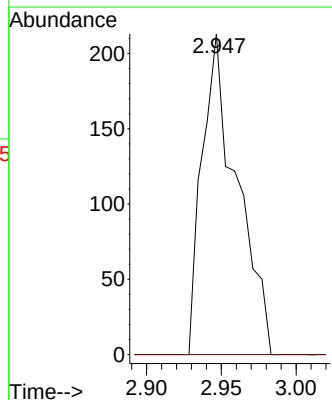
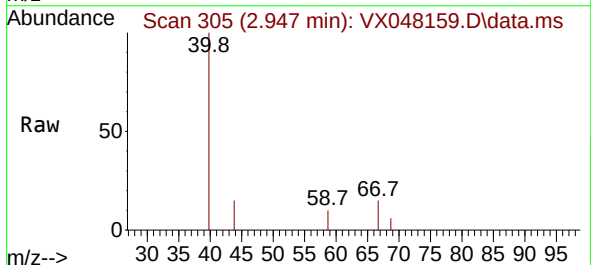


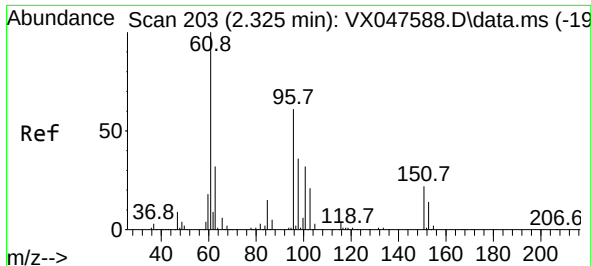
Tgt Ion:142 Resp: 695  
Ion Ratio Lower Upper  
142 100  
127 40.6 37.2 55.8  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 1.529 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. 0.006 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Tgt Ion: 59 Resp: 345  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

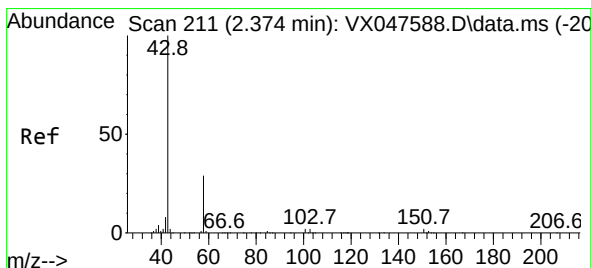
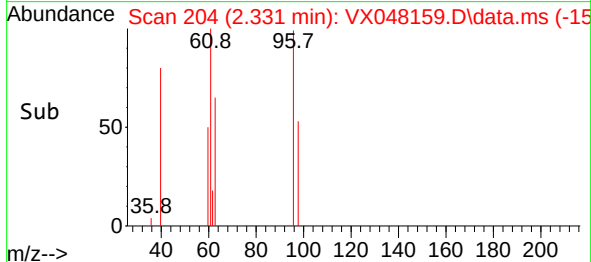
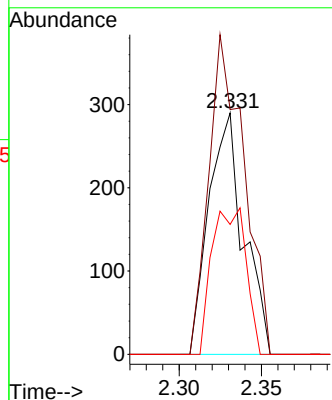
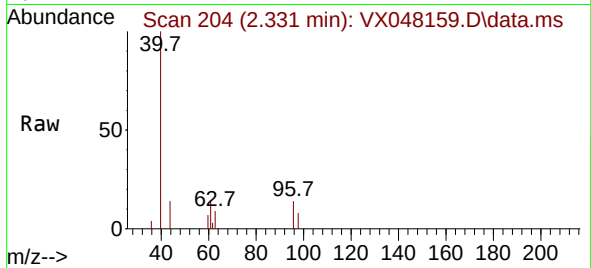




#12  
1,1-Dichloroethene  
Concen: 0.282 ug/l  
RT: 2.331 min Scan# 203  
Delta R.T. 0.006 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

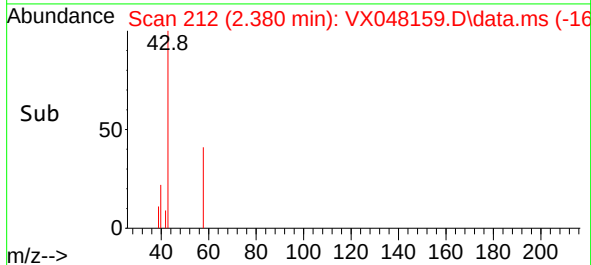
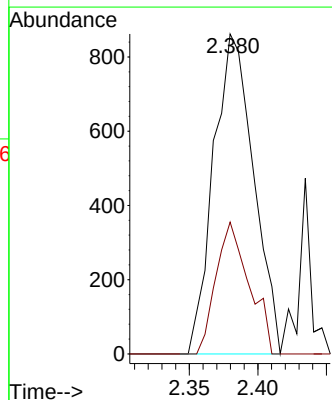
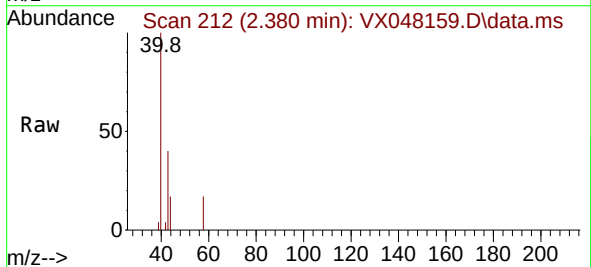
Instrument :  
MSVOA\_X  
ClientSampleId :

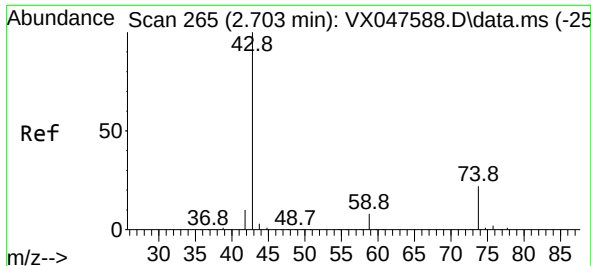
Tgt Ion: 96 Resp: 427  
Ion Ratio Lower Upper  
96 100  
61 120.0 131.0 196.6#  
98 53.8 47.7 71.5



#16  
Acetone  
Concen: 1.991 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Tgt Ion: 43 Resp: 1754  
Ion Ratio Lower Upper  
43 100  
58 41.2 23.4 35.0#

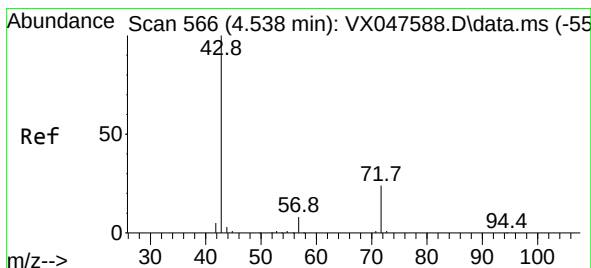
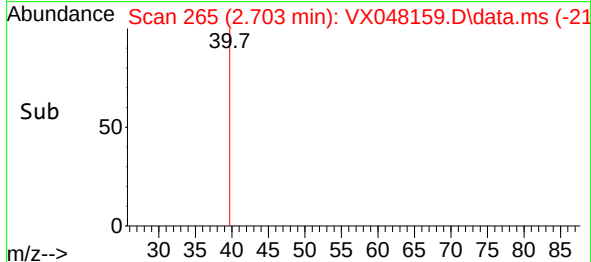
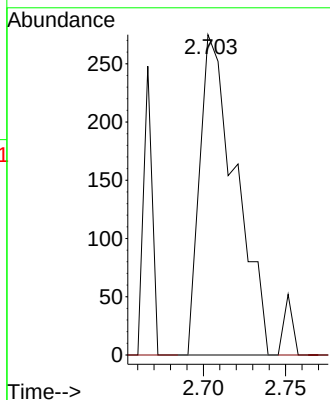
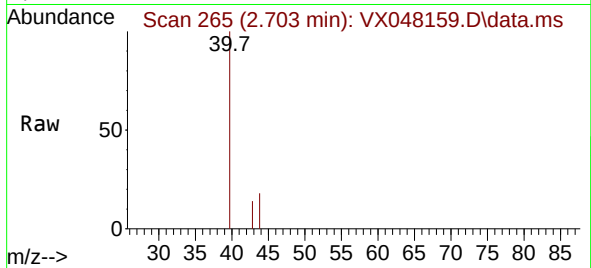




#18  
Methyl Acetate  
Concen: 0.213 ug/l  
RT: 2.703 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

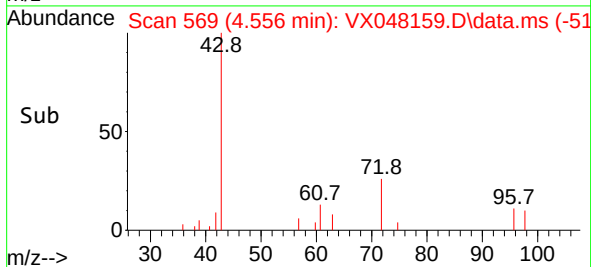
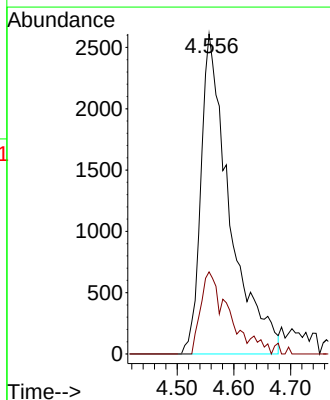
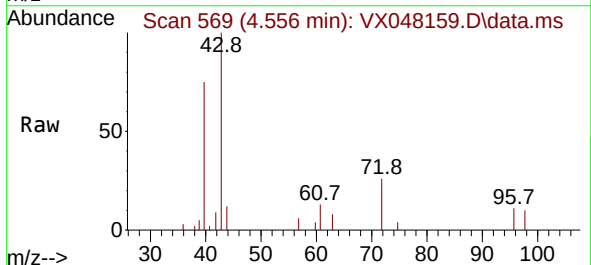
Instrument :  
MSVOA\_X  
ClientSampleId :

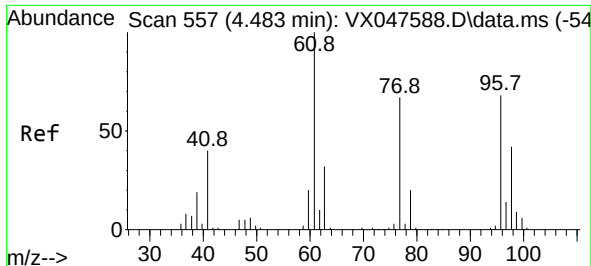
Tgt Ion: 43 Resp: 417  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.4 26.2#



#25  
2-Butanone  
Concen: 8.374 ug/l  
RT: 4.556 min Scan# 569  
Delta R.T. 0.018 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Tgt Ion: 43 Resp: 9203  
Ion Ratio Lower Upper  
43 100  
72 28.4 20.1 30.1





#27

cis-1,2-Dichloroethene

Concen: 8.528 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

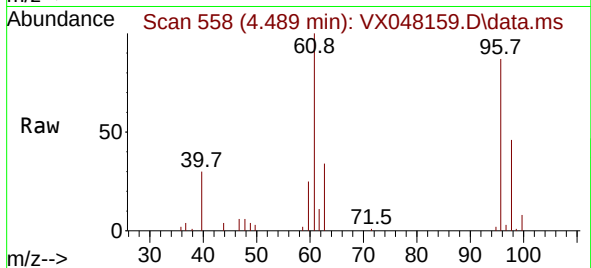
Lab File: VX048159.D

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Instrument :

MSVOA\_X

ClientSampleId :



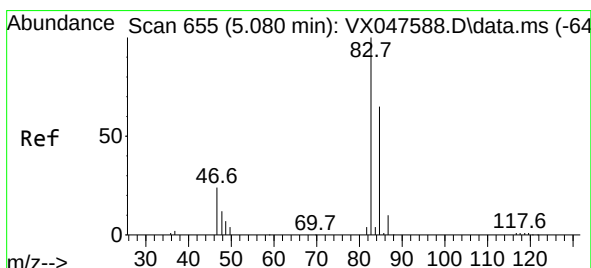
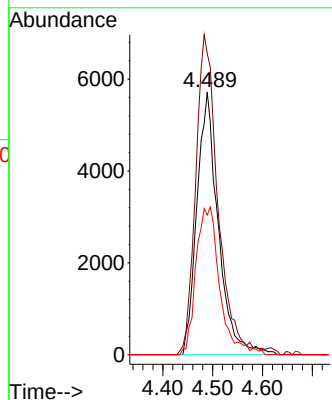
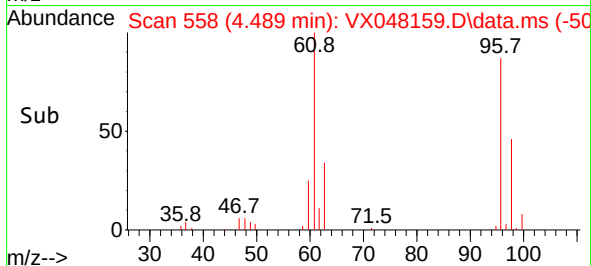
Tgt Ion: 96 Resp: 17007

Ion Ratio Lower Upper

96 100

61 126.8 0.0 303.2

98 62.3 0.0 127.8



#30

Chloroform

Concen: 4.476 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.012 min

Lab File: VX048159.D

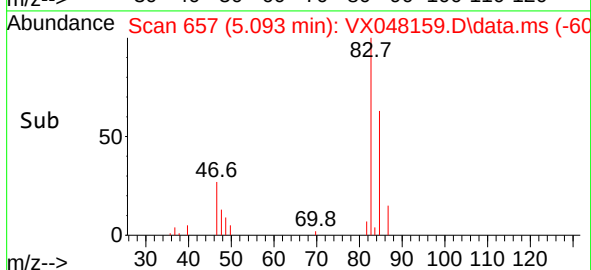
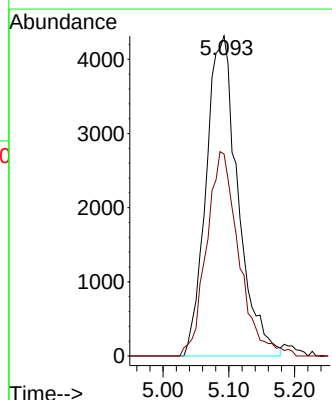
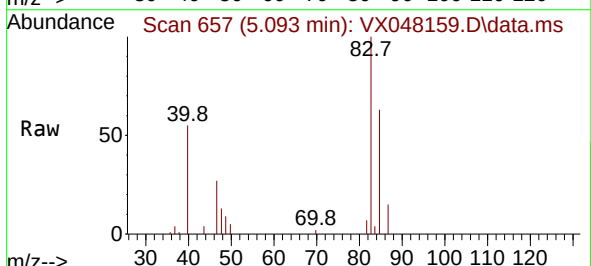
Acq: 14 Oct 2025 12:49

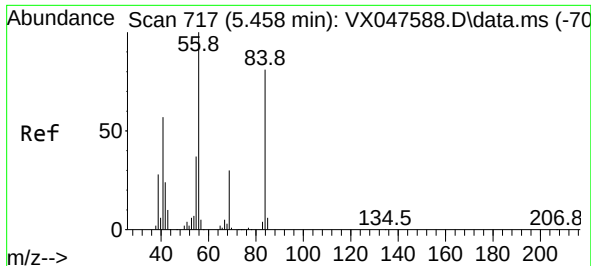
Tgt Ion: 83 Resp: 14541

Ion Ratio Lower Upper

83 100

85 60.9 51.8 77.6

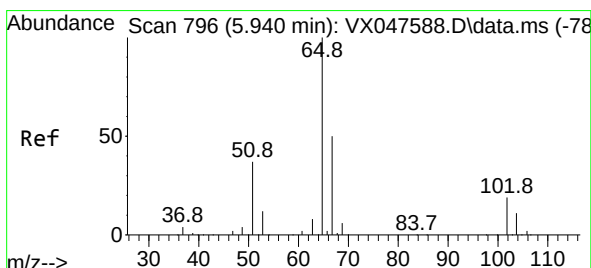
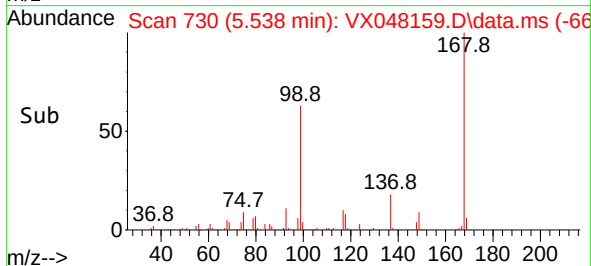
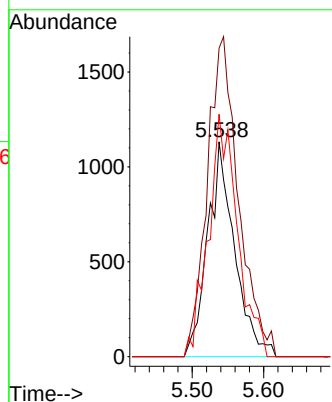
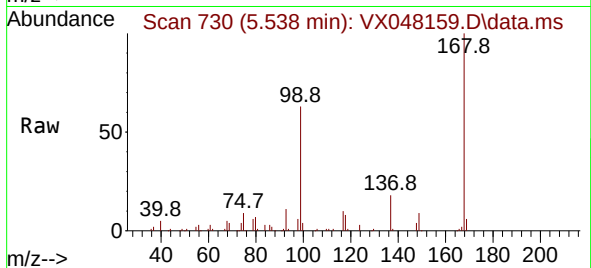




#31  
Cyclohexane  
Concen: 1.104 ug/l  
RT: 5.538 min Scan# 717  
Delta R.T. 0.079 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

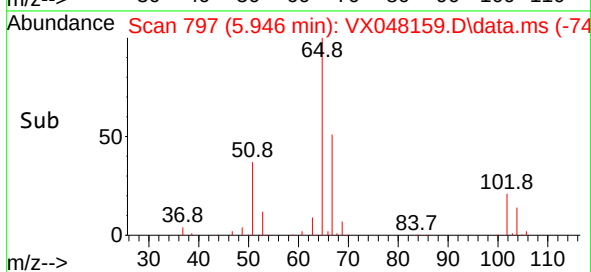
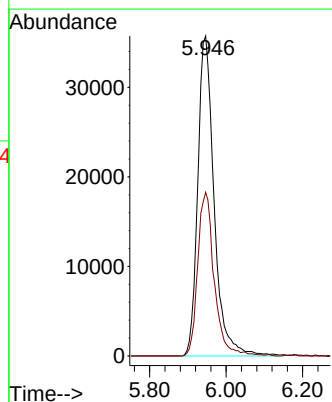
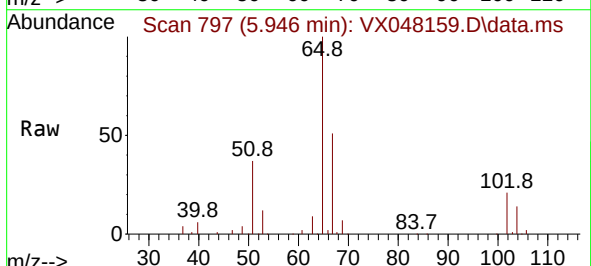
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Tgt Ion: 56 Resp: 2956  
Ion Ratio Lower Upper  
56 100  
69 143.6 23.8 35.8#  
84 112.8 64.6 97.0#

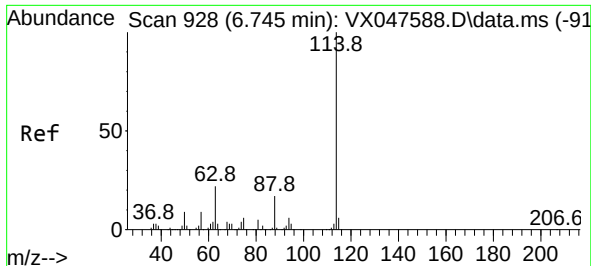


#33  
1,2-Dichloroethane-d4  
Concen: 52.271 ug/l  
RT: 5.946 min Scan# 797  
Delta R.T. 0.006 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Tgt Ion: 65 Resp: 105919  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 103.0



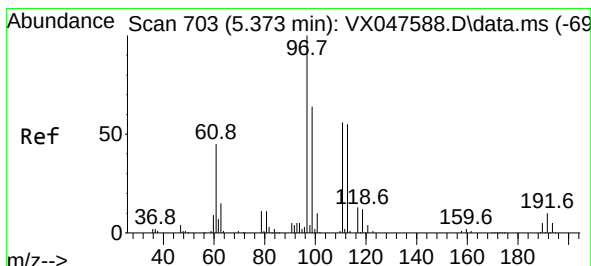
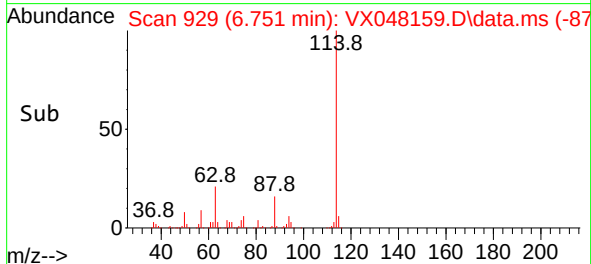
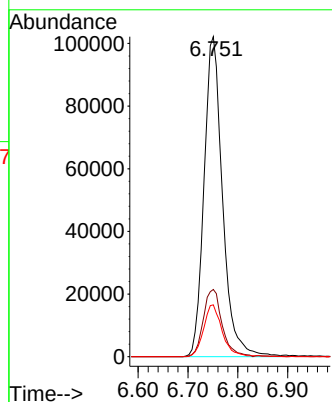
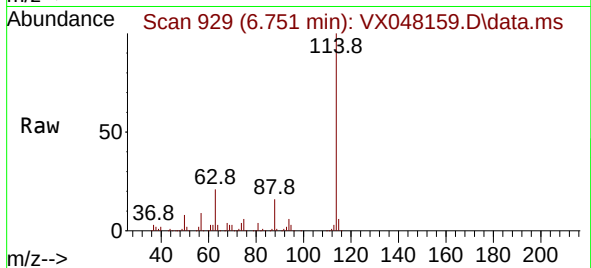




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.751 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

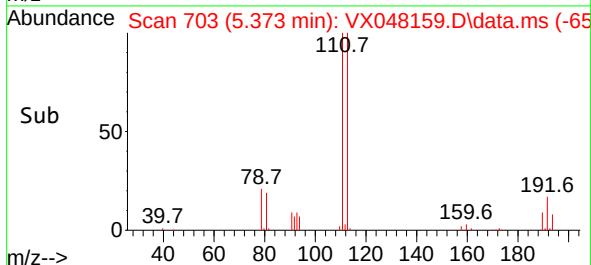
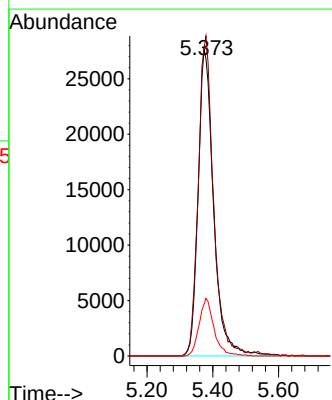
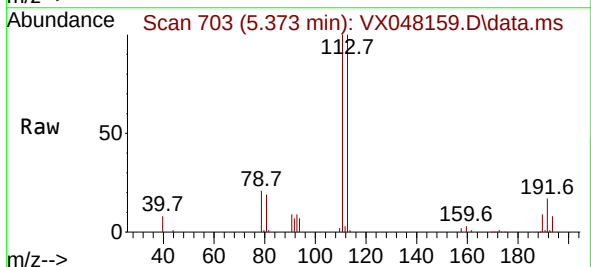
Instrument :  
MSVOA\_X  
ClientSampleId :

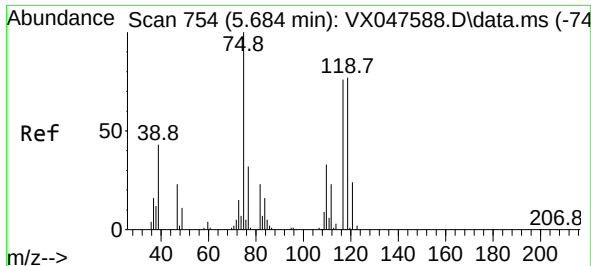
Tgt Ion:114 Resp: 263250  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 44.0  
88 16.2 0.0 34.2



#35  
Dibromofluoromethane  
Concen: 51.296 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

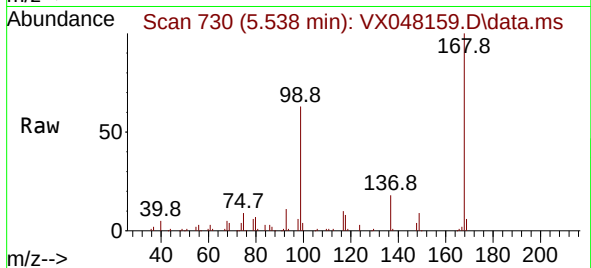
Tgt Ion:113 Resp: 90563  
Ion Ratio Lower Upper  
113 100  
111 102.3 80.9 121.3  
192 18.1 14.2 21.4



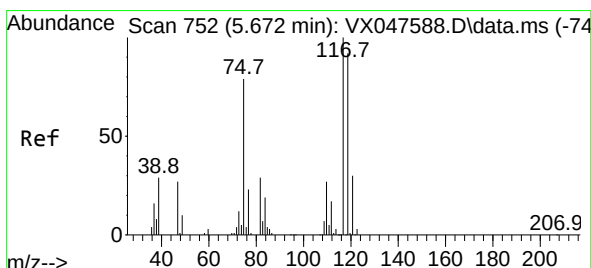
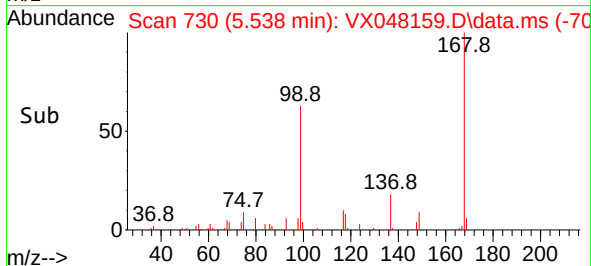
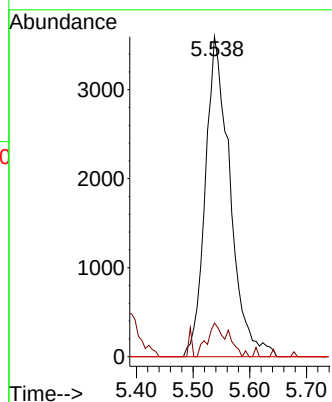


#36  
1,1-Dichloropropene  
Concen: 4.212 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Instrument :  
MSVOA\_X  
ClientSampleId :

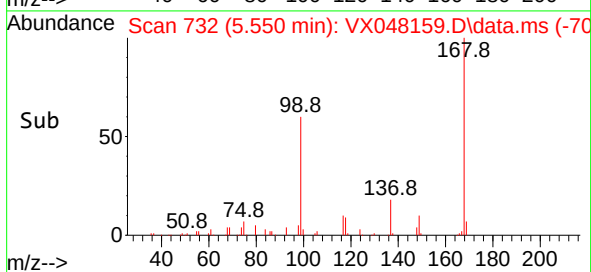
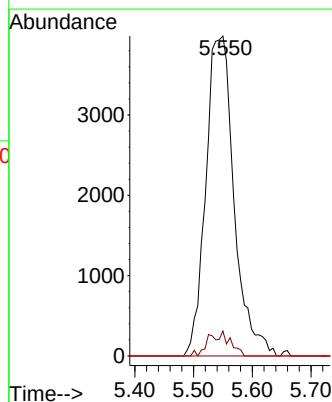
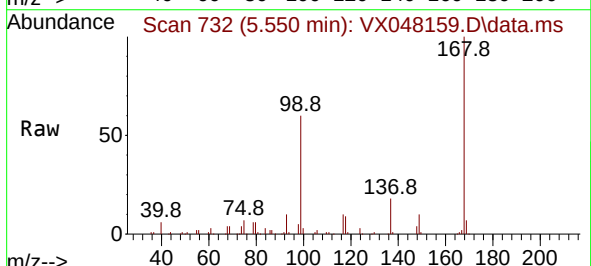


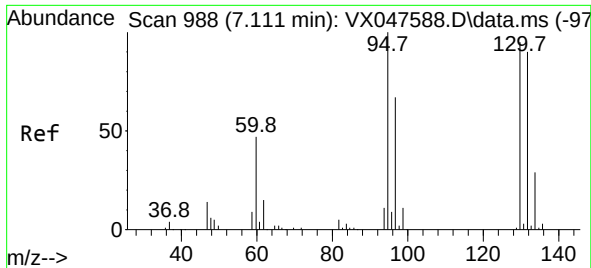
Tgt Ion: 75 Resp: 10865  
Ion Ratio Lower Upper  
75 100  
110 8.9 16.7 50.1#  
77 0.0 24.3 36.5#



#38  
Carbon Tetrachloride  
Concen: 4.748 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

Tgt Ion: 117 Resp: 13308  
Ion Ratio Lower Upper  
117 100  
119 7.8 73.4 110.2#  
121 0.0 23.8 35.6#

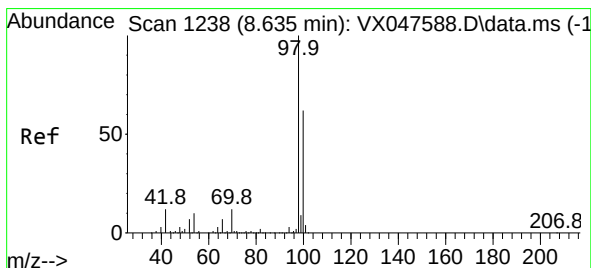
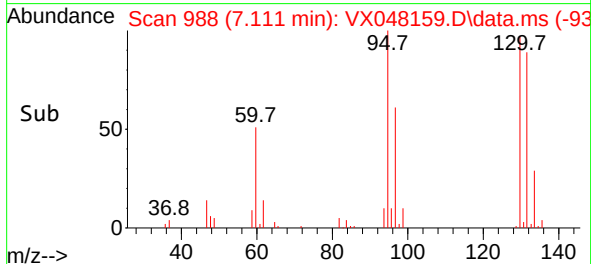
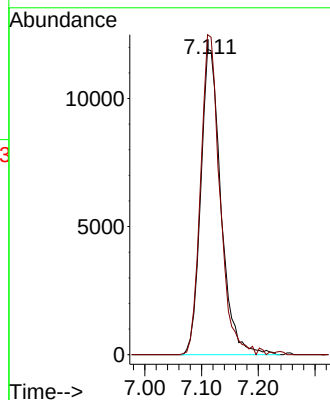
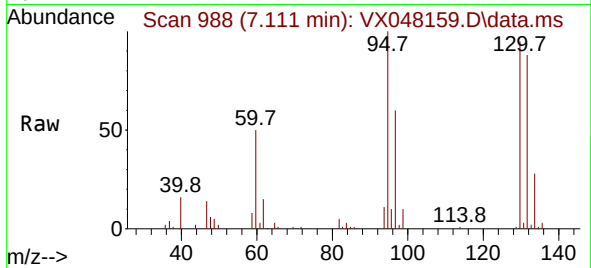




#44  
Trichloroethene  
Concen: 15.557 ug/l  
RT: 7.111 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

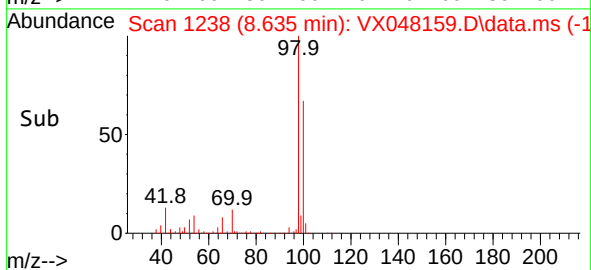
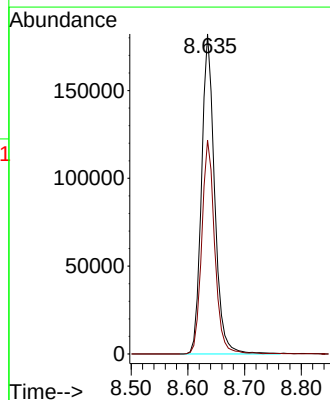
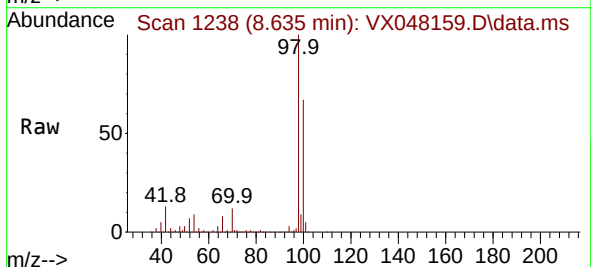
Instrument :  
MSVOA\_X  
ClientSampleId :

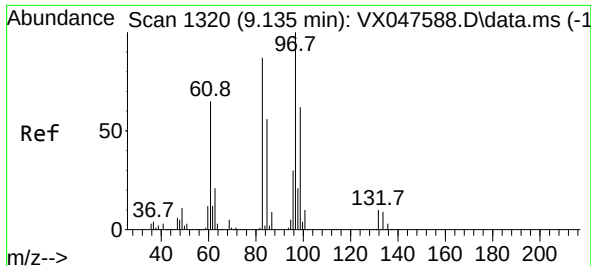
Tgt Ion:130 Resp: 29470  
Ion Ratio Lower Upper  
130 100  
95 115.1 0.0 210.8



#50  
Toluene-d8  
Concen: 47.693 ug/l  
RT: 8.635 min Scan# 1238  
Delta R.T. -0.000 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

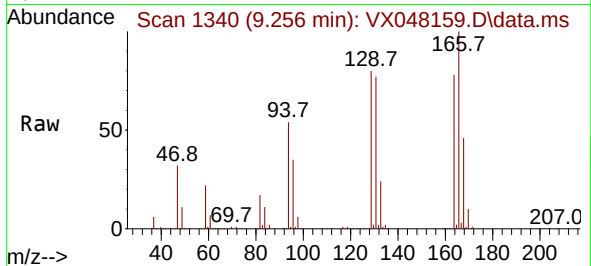
Tgt Ion: 98 Resp: 291356  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.0 79.4



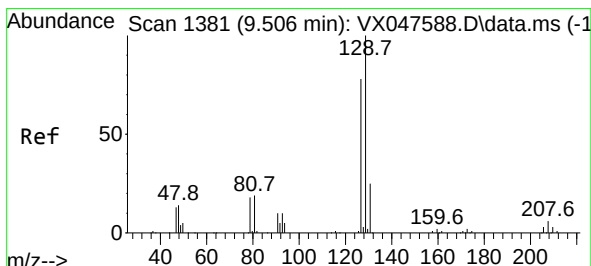
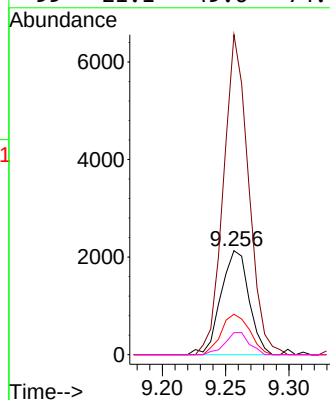
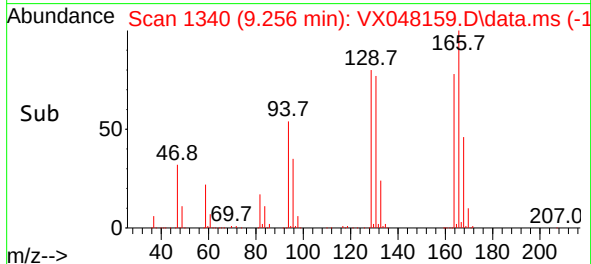


#55  
 1,1,2-Trichloroethane  
 Concen: 1.763 ug/l  
 RT: 9.256 min Scan# 1340  
 Delta R.T. 0.122 min  
 Lab File: VX048159.D  
 Acq: 14 Oct 2025 12:49

Instrument :  
 MSVOA\_X  
 ClientSampleId :

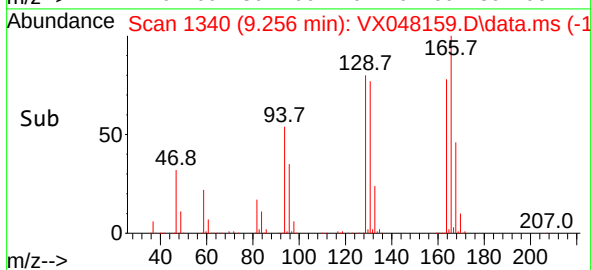
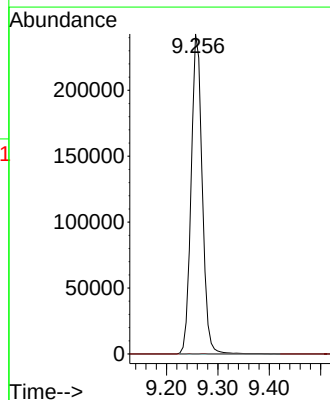
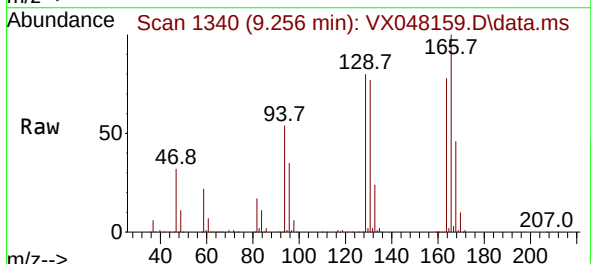


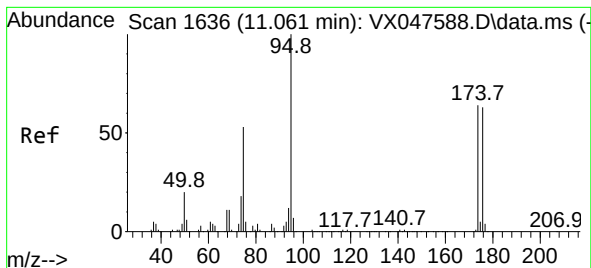
Tgt Ion: 97 Resp: 3281  
 Ion Ratio Lower Upper  
 97 100  
 83 307.5 69.6 104.4#  
 85 38.9 45.0 67.6#  
 99 21.1 49.6 74.4#



#60  
 Dibromochloromethane  
 Concen: 169.745 ug/l  
 RT: 9.256 min Scan# 1340  
 Delta R.T. -0.250 min  
 Lab File: VX048159.D  
 Acq: 14 Oct 2025 12:49

Tgt Ion: 129 Resp: 364070  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 38.4 115.2#

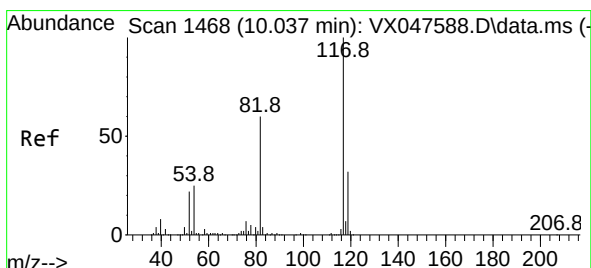
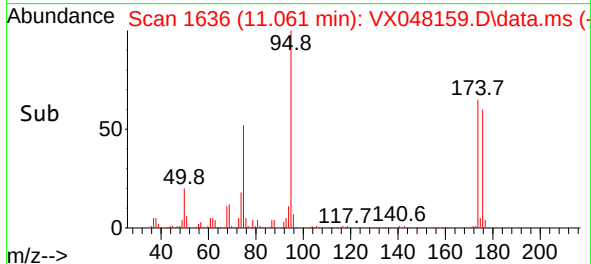
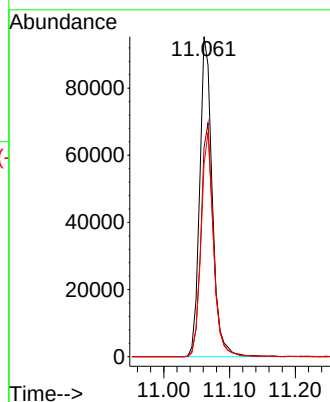
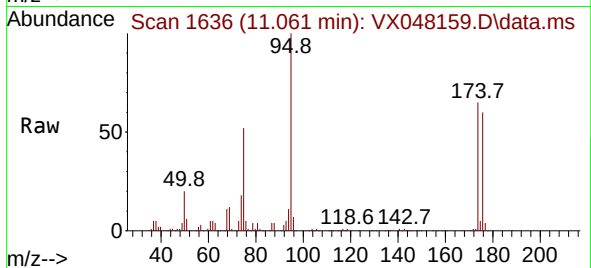




#62  
4-Bromofluorobenzene  
Concen: 54.389 ug/l  
RT: 11.061 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

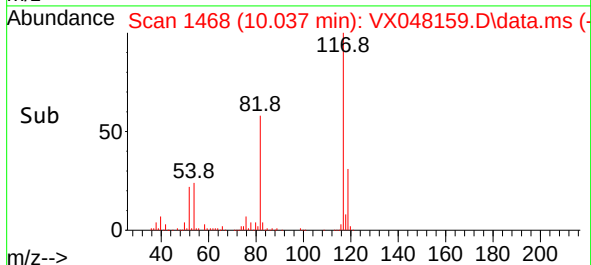
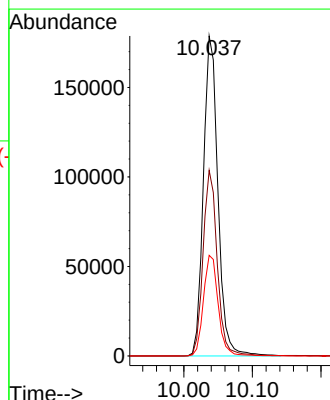
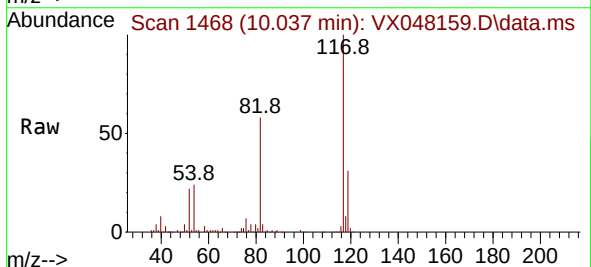
Instrument :  
MSVOA\_X  
ClientSampleId :

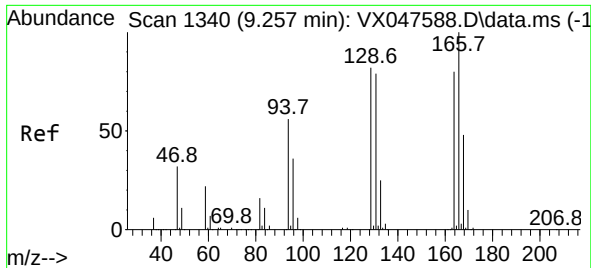
Tgt Ion: 95 Resp: 126098  
Ion Ratio Lower Upper  
95 100  
174 72.7 0.0 141.6  
176 69.6 0.0 138.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.037 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

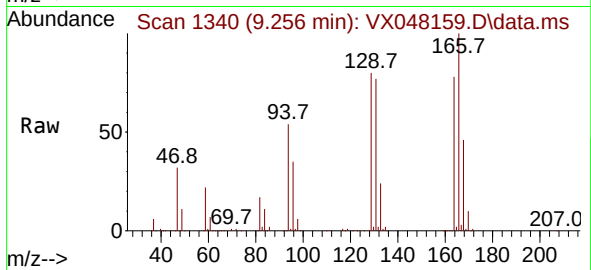
Tgt Ion: 117 Resp: 264360  
Ion Ratio Lower Upper  
117 100  
82 58.0 47.8 71.6  
119 31.5 25.2 37.8



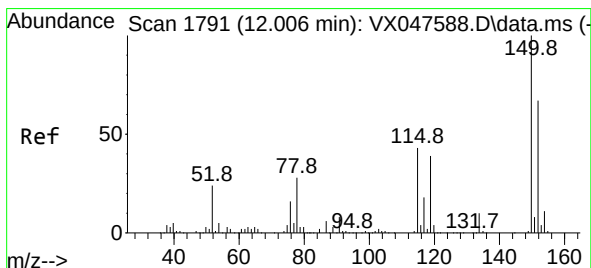
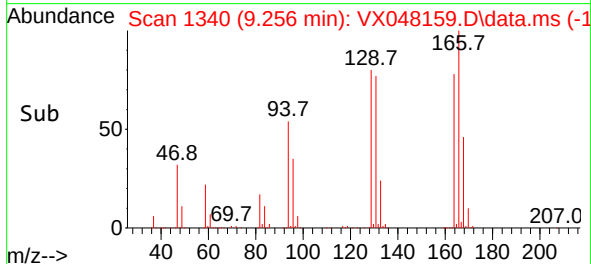
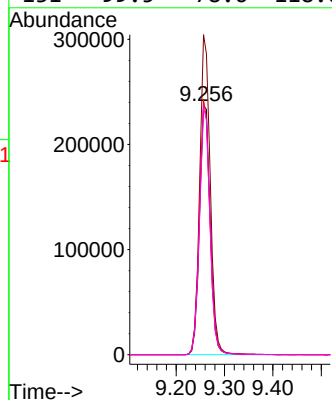


#64  
 Tetrachloroethene  
 Concen: 211.442 ug/l  
 RT: 9.256 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX048159.D  
 Acq: 14 Oct 2025 12:49

Instrument :  
 MSVOA\_X  
 ClientSampleId :

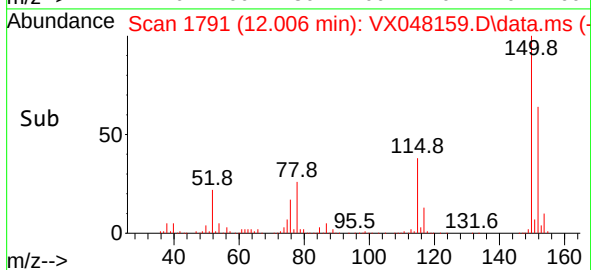
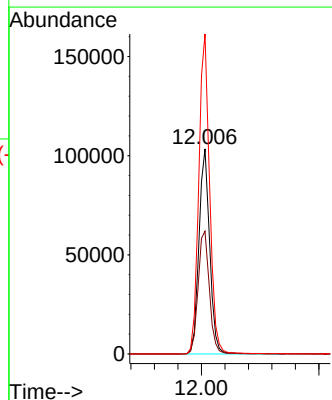
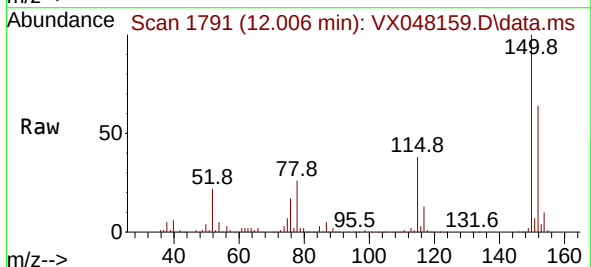


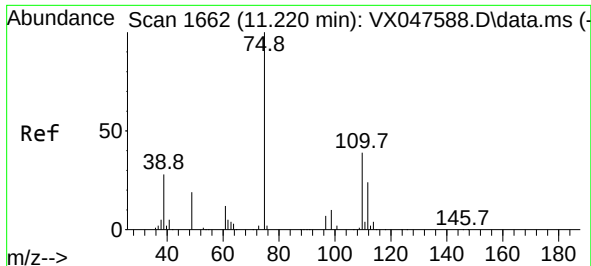
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:164 | Resp: | 364388 |
| Ion | Ratio   | Lower | Upper  |
| 164 | 100     |       |        |
| 166 | 128.4   | 100.2 | 150.2  |
| 129 | 102.4   | 81.8  | 122.6  |
| 131 | 99.5    | 78.6  | 118.0  |



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.006 min Scan# 1791  
 Delta R.T. -0.000 min  
 Lab File: VX048159.D  
 Acq: 14 Oct 2025 12:49

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:152 | Resp: | 131679 |       |
| Ion         | Ratio | Lower  | Upper |
| 152         | 100   |        |       |
| 115         | 62.7  | 44.9   | 134.5 |
| 150         | 157.2 | 0.0    | 352.0 |

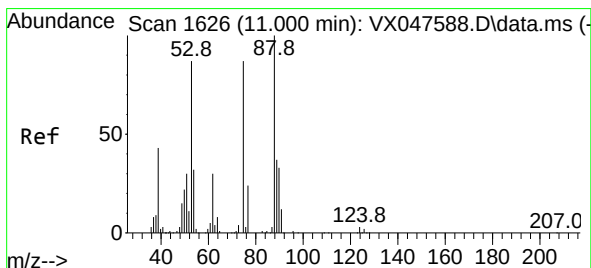
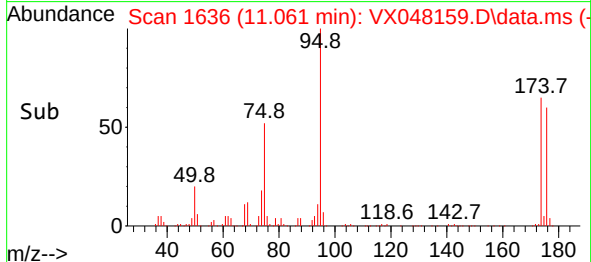
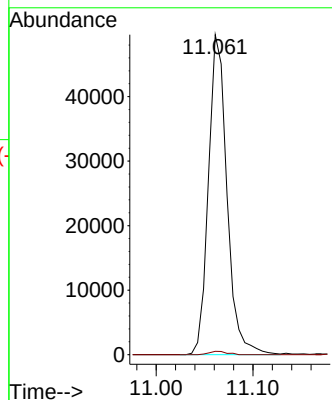
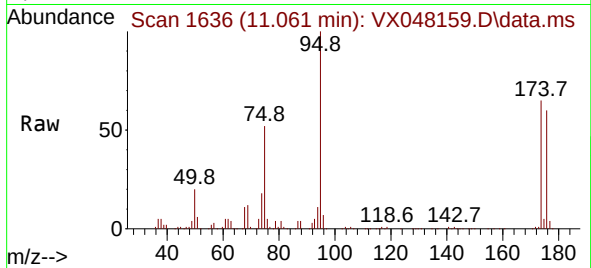




#76  
1,2,3-Trichloropropane  
Concen: 24.824 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.159 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

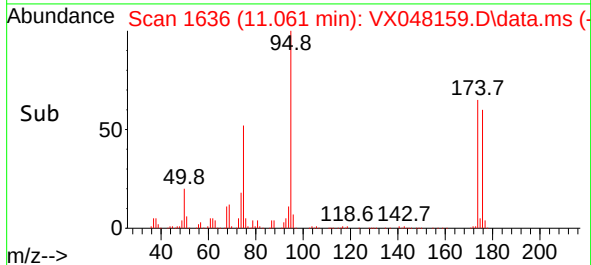
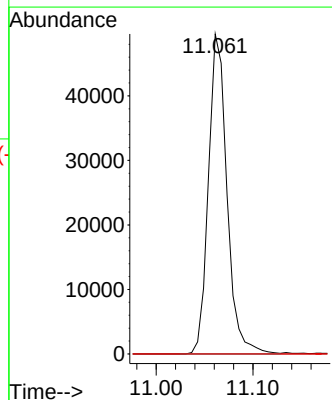
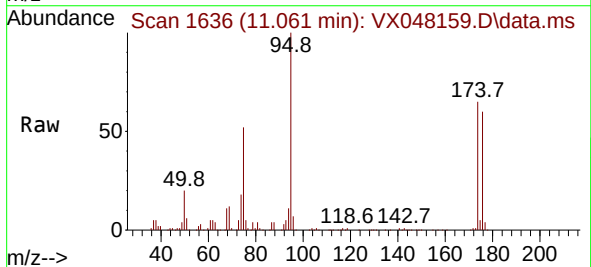
Instrument :  
MSVOA\_X  
ClientSampleId :

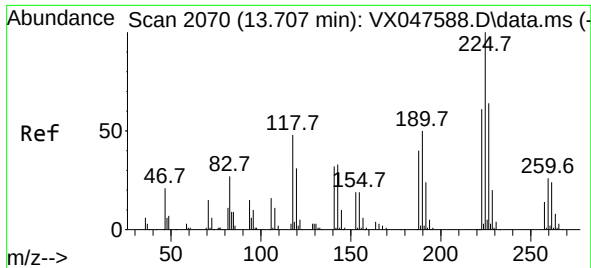
Tgt Ion: 75 Resp: 66182  
Ion Ratio Lower Upper  
75 100  
77 1.0 18.8 56.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.304 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. 0.061 min  
Lab File: VX048159.D  
Acq: 14 Oct 2025 12:49

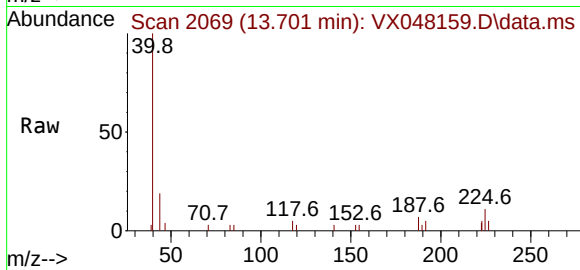
Tgt Ion: 75 Resp: 66182  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.4 125.2#  
89 0.0 36.3 54.5#





#94  
 Hexachlorobutadiene  
 Concen: 0.263 ug/l  
 RT: 13.701 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VX048159.D  
 Acq: 14 Oct 2025 12:49

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 253   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 62.1  | 31.7  | 95.1  |
| 227      | 41.1  | 32.0  | 96.0  |

