

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV082125\  
 Data File : VV038996.D  
 Acq On : 21 Aug 2025 21:06  
 Operator : SY/MD  
 Sample : Q2924-11  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 22 04:38:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V082125W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 22 04:15:04 2025  
 Response via : Initial Calibration

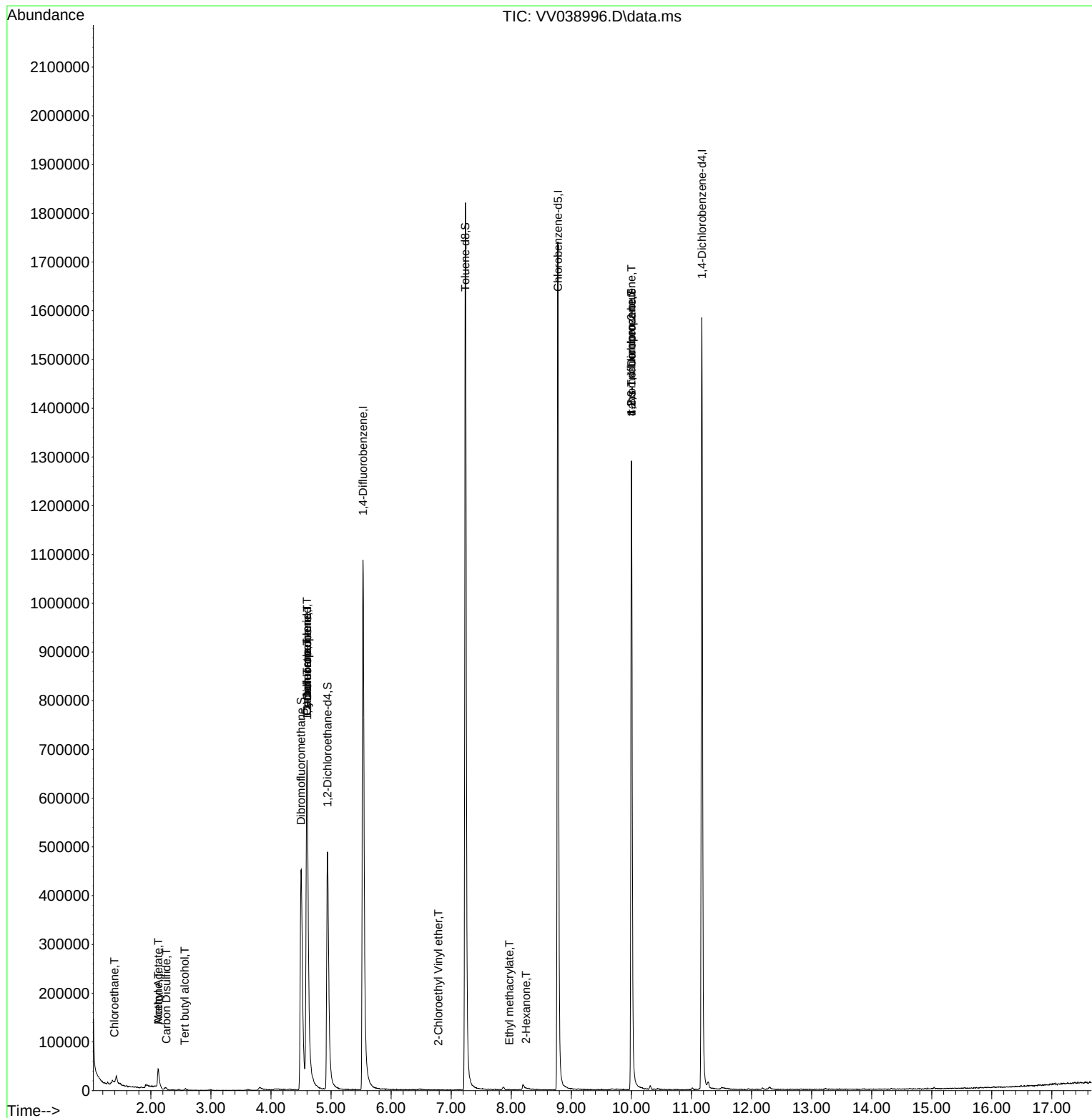
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 4.600  | 168   | 585262   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 5.532  | 114   | 1084020  | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 8.776  | 117   | 978319   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.175 | 152   | 424569   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 4.940  | 65    | 439913   | 53.568    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | = 107.140% |          |
| 35) Dibromofluoromethane      | 4.503  | 113   | 380037   | 46.747    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | = 93.500%  |          |
| 50) Toluene-d8                | 7.236  | 98    | 1263312  | 44.564    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | = 89.120%  |          |
| 62) 4-Bromofluorobenzene      | 10.001 | 95    | 432441   | 41.699    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | = 83.400%# |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           |            | Qvalue   |
| 6) Chloroethane               | 1.394  | 64    | 5323     | 1.095     | ug/l #     | 50       |
| 11) Tert butyl alcohol        | 2.564  | 59    | 634      | 0.570     | ug/l #     | 73       |
| 13) Acrolein                  | 2.021  | 56    | 134      | Below Cal |            | 84       |
| 16) Acetone                   | 2.124  | 43    | 46308    | 14.050    | ug/l       | 99       |
| 17) Carbon Disulfide          | 2.259  | 76    | 3938     | 0.213     | ug/l #     | 84       |
| 18) Methyl Acetate            | 2.124  | 43    | 45948    | 6.577     | ug/l #     | 45       |
| 28) Bromochloromethane        | 4.169  | 49    | 20       | Below Cal | #          | 3        |
| 31) Cyclohexane               | 4.600  | 56    | 11231    | 0.976     | ug/l #     | 11       |
| 36) 1,1-Dichloropropene       | 4.603  | 75    | 49045    | 4.645     | ug/l #     | 47       |
| 38) Carbon Tetrachloride      | 4.600  | 117   | 62227    | 4.401     | ug/l #     | 16       |
| 56) Ethyl methacrylate        | 7.969  | 69    | 20       | 2.317     | ug/l #     | 1        |
| 58) 2-Chloroethyl Vinyl ether | 6.786  | 63    | 78       | 4.997     | ug/l #     | 43       |
| 59) 2-Hexanone                | 8.246  | 43    | 229      | 10.917    | ug/l       | 62       |
| 76) 1,2,3-Trichloropropane    | 10.001 | 75    | 218024   | 27.685    | ug/l #     | 56       |
| 81) trans-1,4-Dichloro-2-b... | 10.001 | 75    | 218024   | 63.561    | ug/l #     | 14       |
| -----                         |        |       |          |           |            |          |

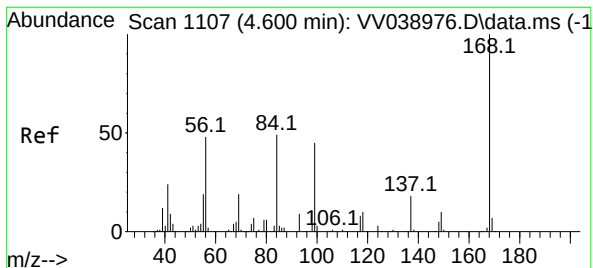
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Aug 22 04:15:04 2025  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.000 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

Instrument :

MSVOA\_V

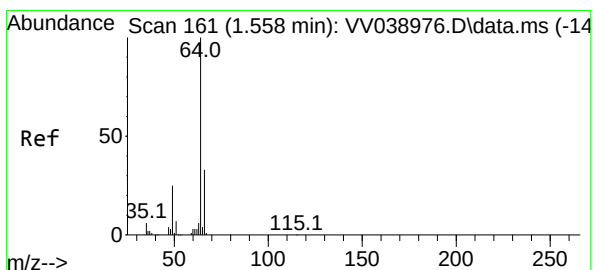
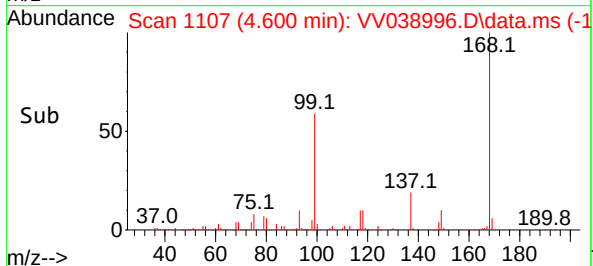
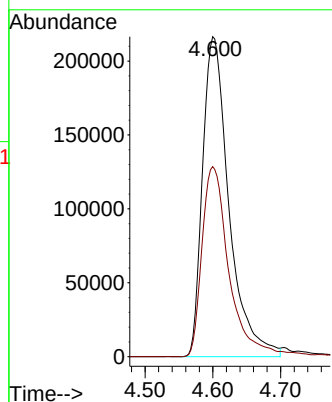
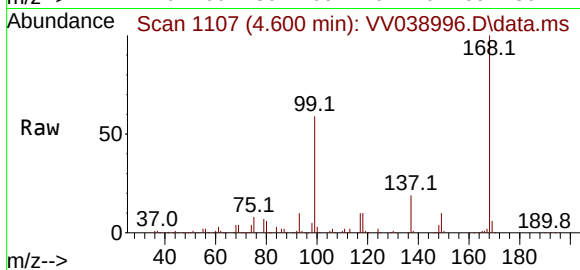
ClientSampleId :

Tgt Ion:168 Resp: 585262

Ion Ratio Lower Upper

168 100

99 59.4 47.0 70.6



#6

Chloroethane

Concen: 1.095 ug/l

RT: 1.394 min Scan# 110

Delta R.T. -0.164 min

Lab File: VV038996.D

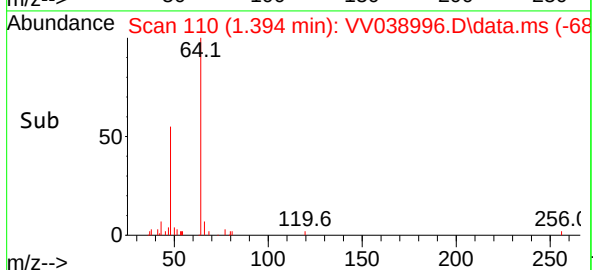
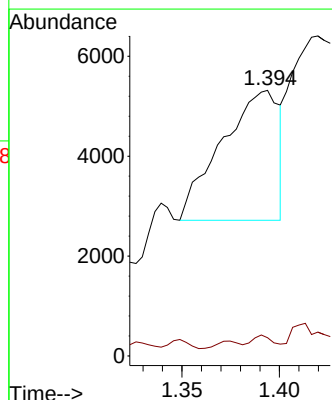
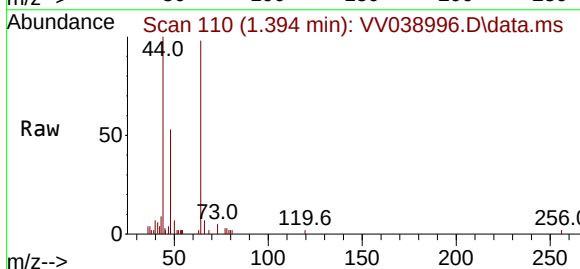
Acq: 21 Aug 2025 21:06

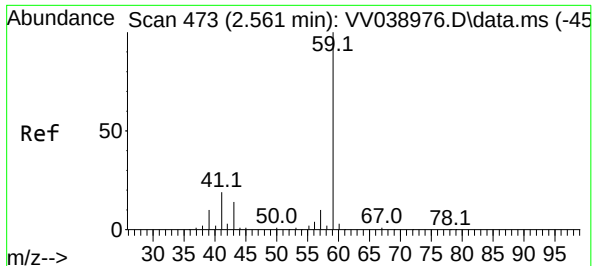
Tgt Ion: 64 Resp: 5323

Ion Ratio Lower Upper

64 100

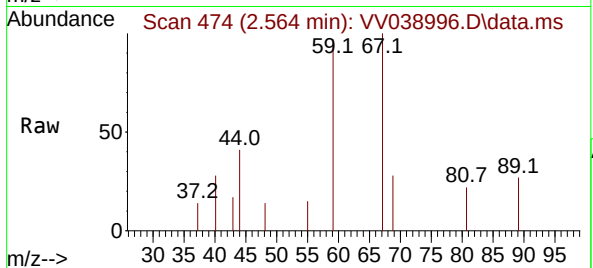
66 5.0 26.8 40.2#



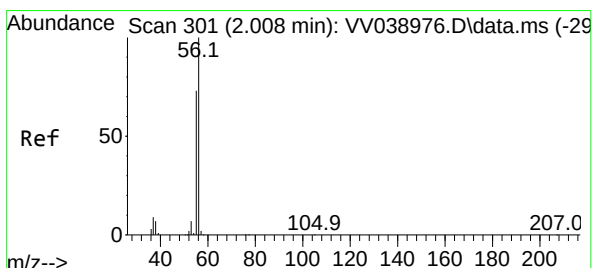
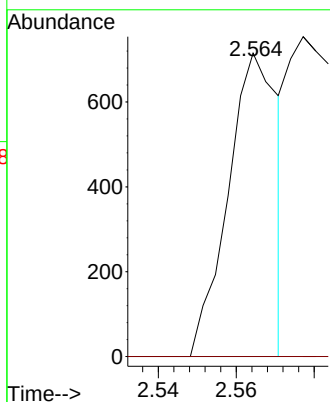
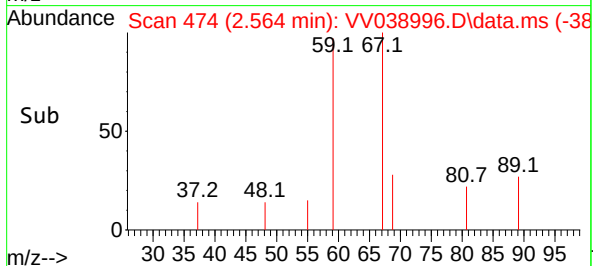


#11  
Tert butyl alcohol  
Concen: 0.570 ug/l  
RT: 2.564 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VV038996.D  
Acq: 21 Aug 2025 21:06

Instrument :  
MSVOA\_V  
ClientSampleId :

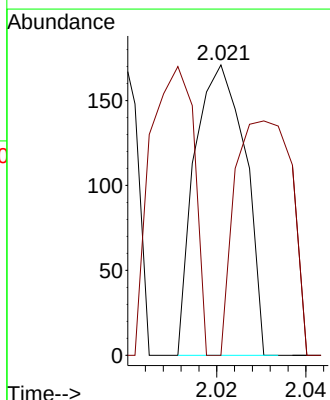
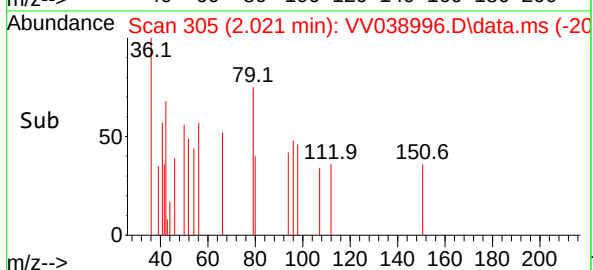
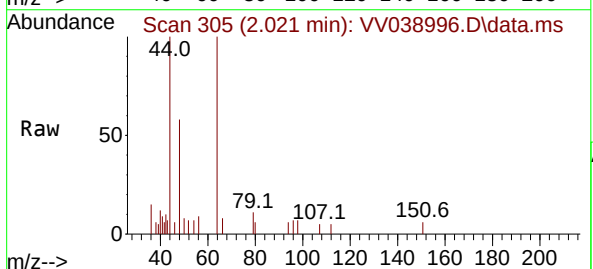


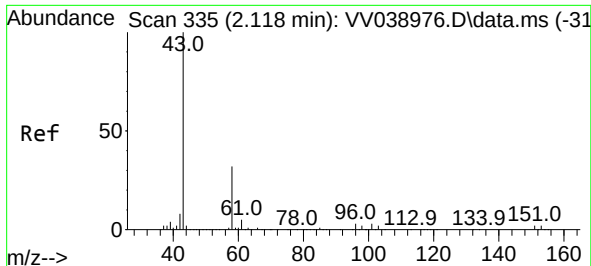
Tgt Ion: 59 Resp: 634  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.021 min Scan# 305  
Delta R.T. 0.013 min  
Lab File: VV038996.D  
Acq: 21 Aug 2025 21:06

Tgt Ion: 56 Resp: 134  
Ion Ratio Lower Upper  
56 100  
55 86.6 58.8 88.2

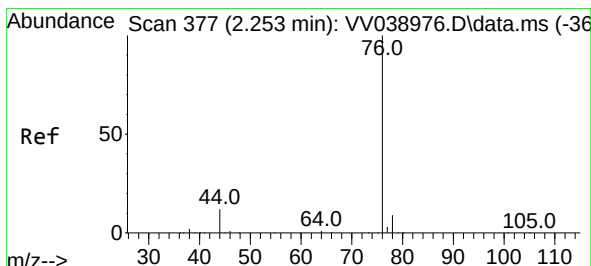
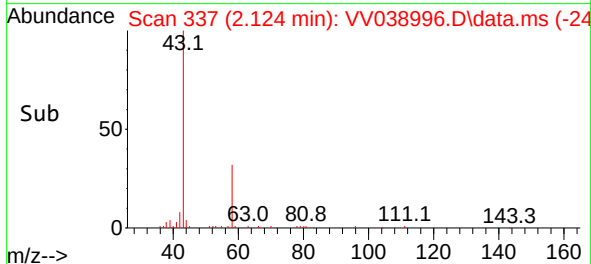
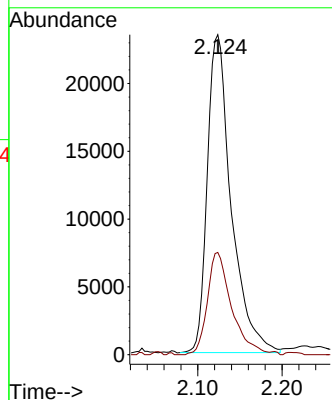
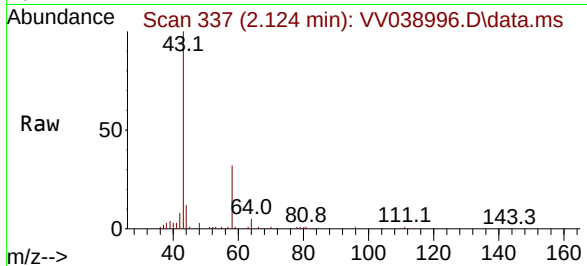




#16  
Acetone  
Concen: 14.050 ug/l  
RT: 2.124 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VV038996.D  
Acq: 21 Aug 2025 21:06

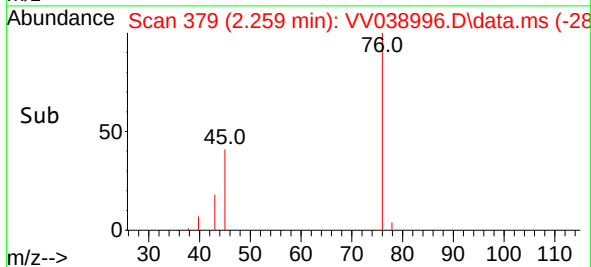
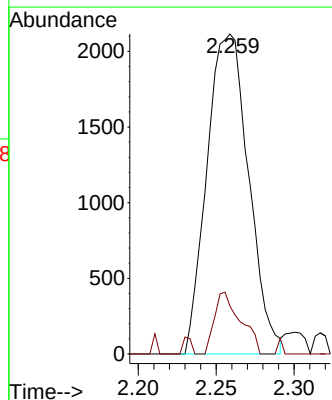
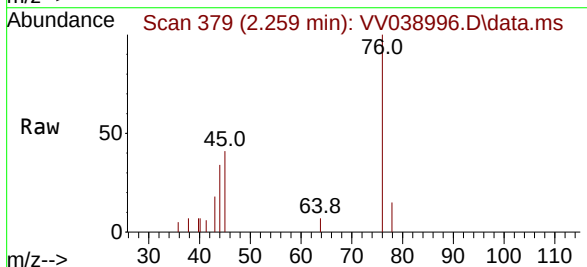
Instrument :  
MSVOA\_V  
ClientSampleId :

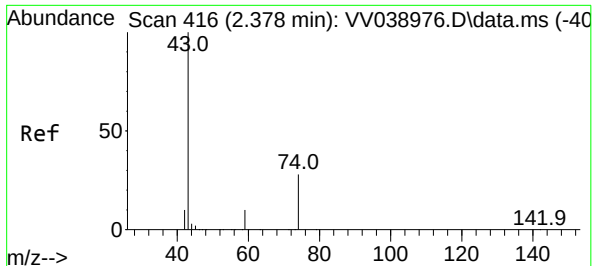
Tgt Ion: 43 Resp: 46308  
Ion Ratio Lower Upper  
43 100  
58 32.1 26.3 39.5



#17  
Carbon Disulfide  
Concen: 0.213 ug/l  
RT: 2.259 min Scan# 379  
Delta R.T. 0.006 min  
Lab File: VV038996.D  
Acq: 21 Aug 2025 21:06

Tgt Ion: 76 Resp: 3938  
Ion Ratio Lower Upper  
76 100  
78 15.0 7.3 10.9#





#18

Methyl Acetate

Concen: 6.577 ug/l

RT: 2.124 min Scan# 31

Delta R.T. -0.254 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

Instrument :

MSVOA\_V

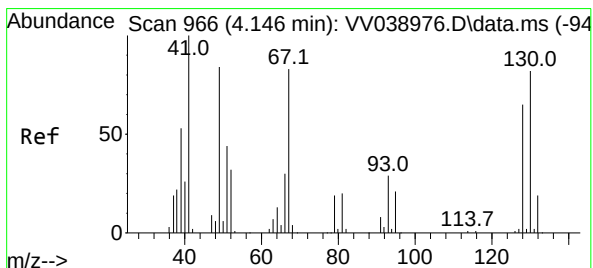
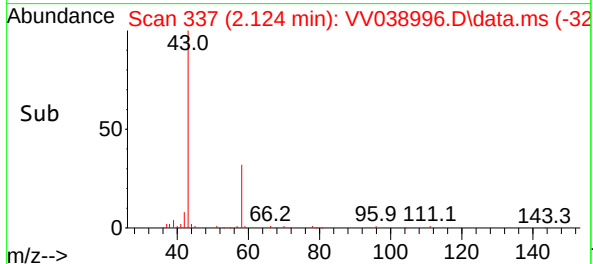
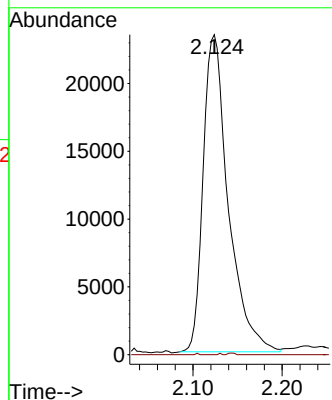
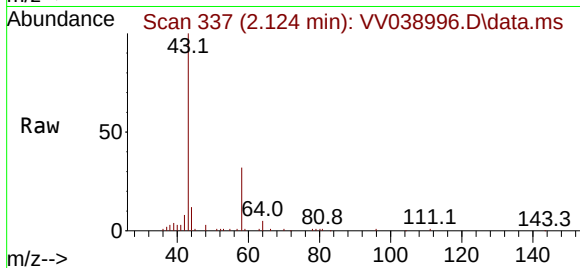
ClientSampleId :

Tgt Ion: 43 Resp: 45948

Ion Ratio Lower Upper

43 100

74 0.0 23.5 35.3#



#28

Bromochloromethane

Concen: Below Cal

RT: 4.169 min Scan# 973

Delta R.T. 0.023 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

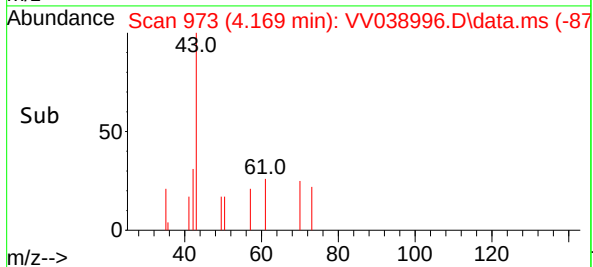
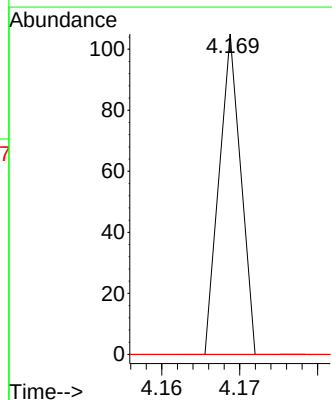
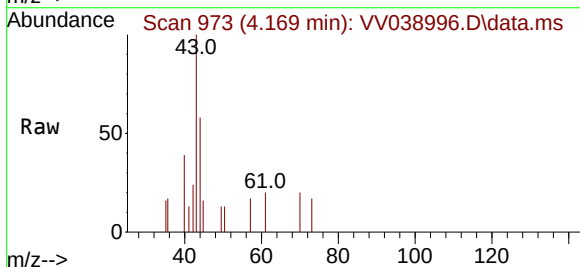
Tgt Ion: 49 Resp: 20

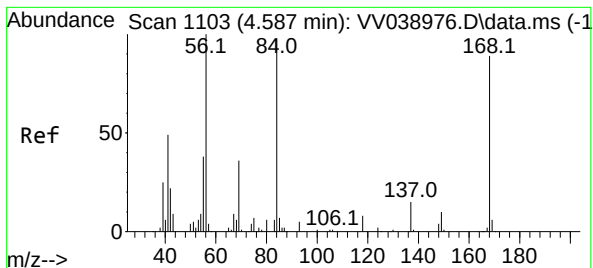
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.2

130 0.0 78.2 117.2#





#31

Cyclohexane

Concen: 0.976 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. 0.013 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

Instrument :

MSVOA\_V

ClientSampleId :

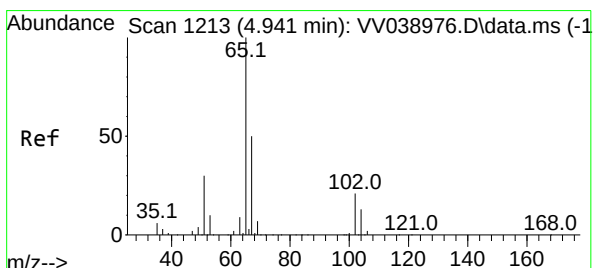
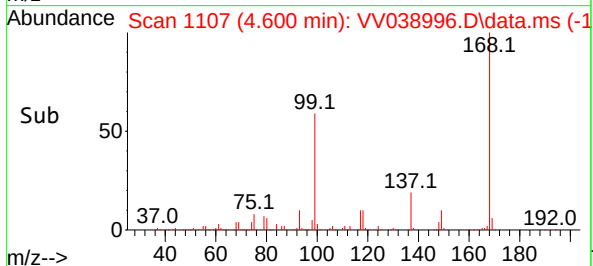
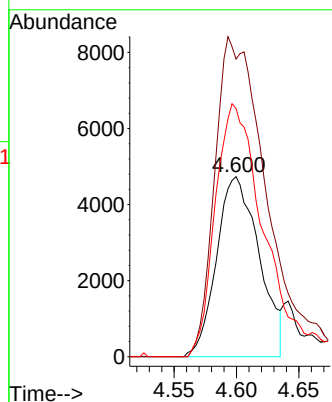
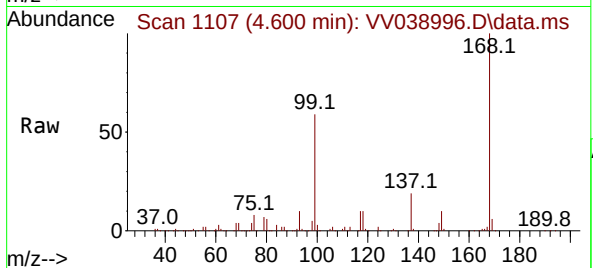
Tgt Ion: 56 Resp: 11231

Ion Ratio Lower Upper

56 100

69 165.3 28.6 42.8#

84 137.9 78.1 117.1#



#33

1,2-Dichloroethane-d4

Concen: 53.568 ug/l

RT: 4.940 min Scan# 1213

Delta R.T. -0.000 min

Lab File: VV038996.D

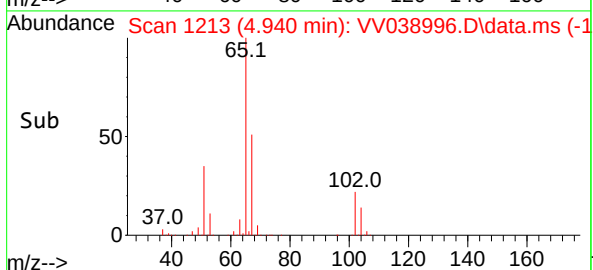
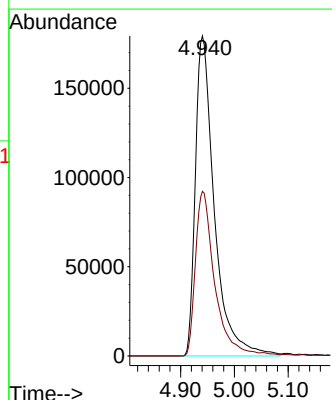
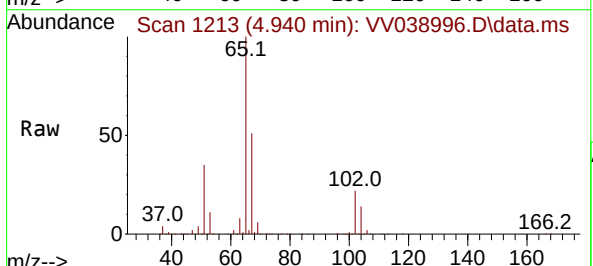
Acq: 21 Aug 2025 21:06

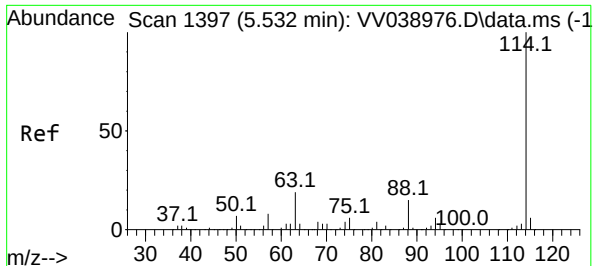
Tgt Ion: 65 Resp: 439913

Ion Ratio Lower Upper

65 100

67 51.7 0.0 100.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

Instrument :

MSVOA\_V

ClientSampleId :

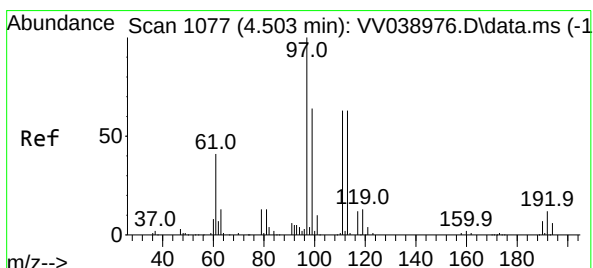
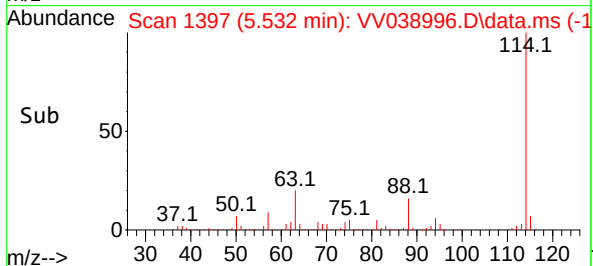
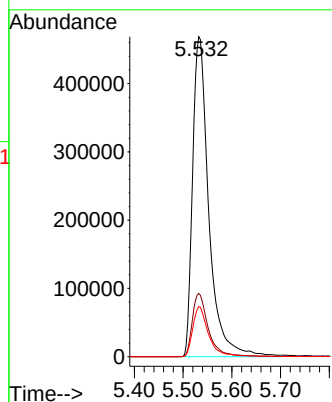
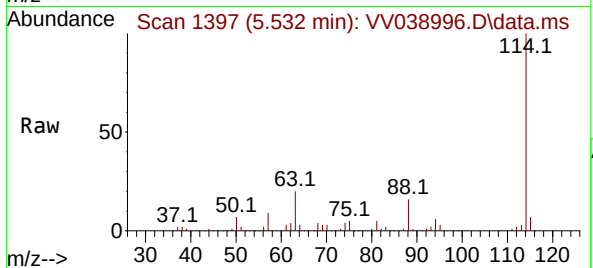
Tgt Ion:114 Resp: 1084020

Ion Ratio Lower Upper

114 100

63 19.7 0.0 37.4

88 15.7 0.0 30.4



#35

Dibromofluoromethane

Concen: 46.747 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. -0.000 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

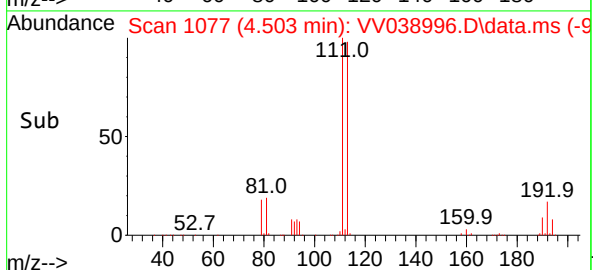
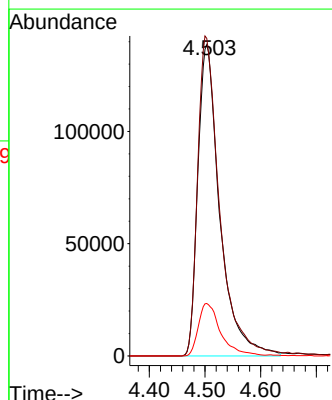
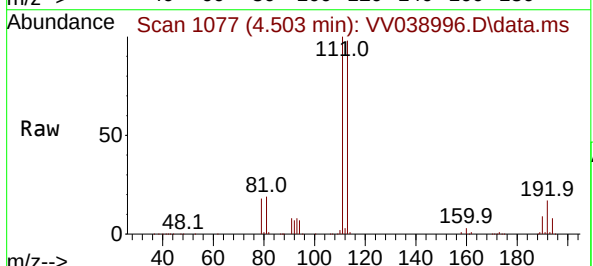
Tgt Ion:113 Resp: 380037

Ion Ratio Lower Upper

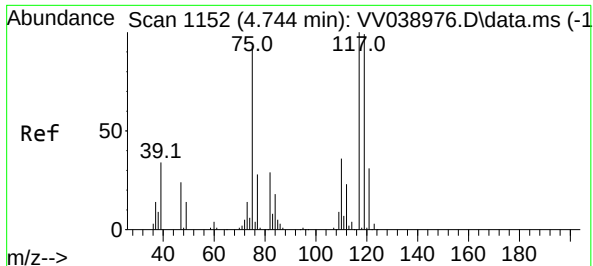
113 100

111 102.7 81.3 121.9

192 17.2 15.4 23.0







#36

1,1-Dichloropropene

Concen: 4.645 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.142 min

Lab File: VV038996.D

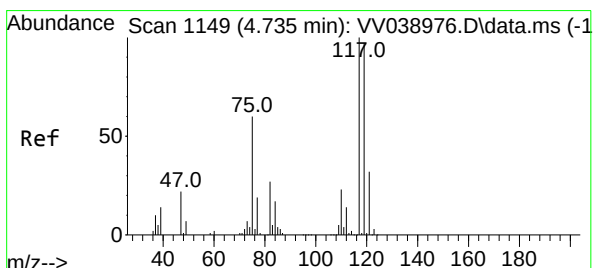
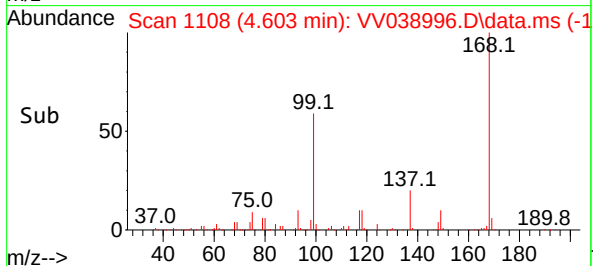
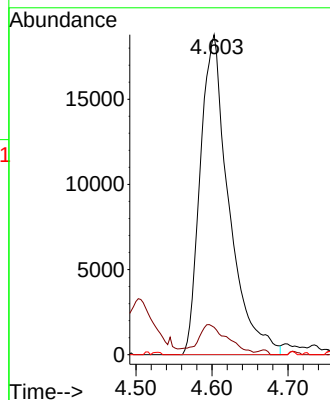
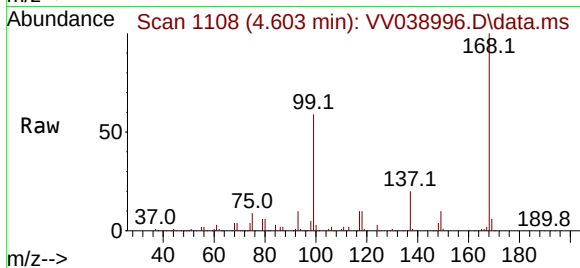
Acq: 21 Aug 2025 21:06

Instrument :

MSVOA\_V

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 49045 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.3   | 19.6  | 58.7# |
| 77        | 0.0   | 24.4  | 36.6# |



#38

Carbon Tetrachloride

Concen: 4.401 ug/l

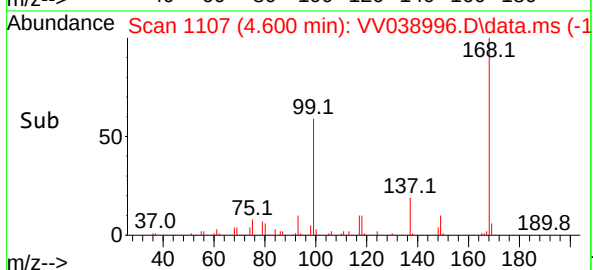
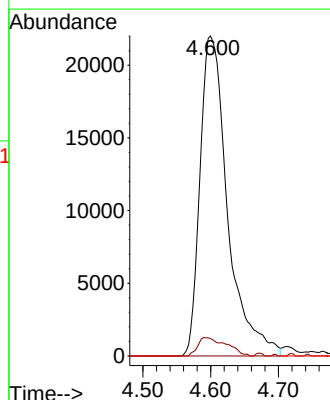
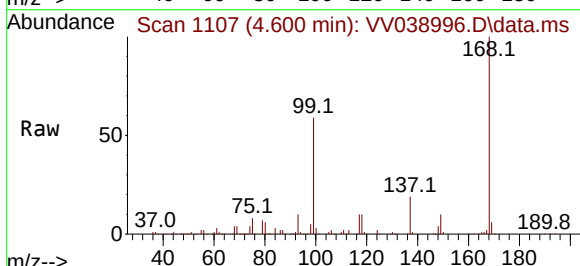
RT: 4.600 min Scan# 1107

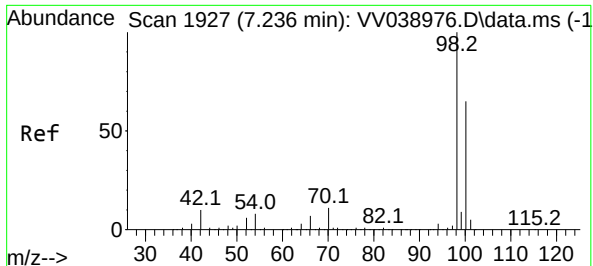
Delta R.T. -0.135 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 62227  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.5   | 77.1  | 115.7# |
| 121       | 0.0   | 25.4  | 38.2#  |

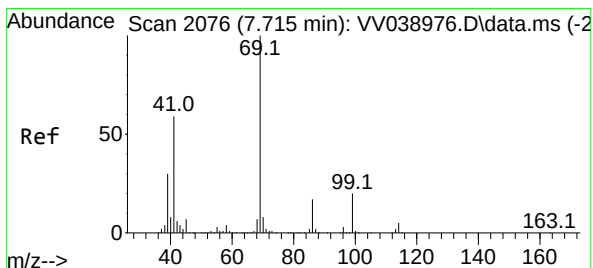
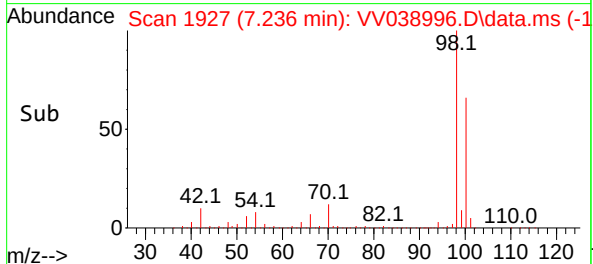
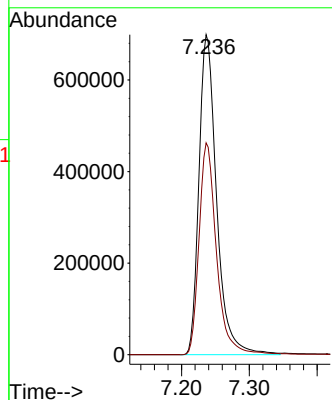
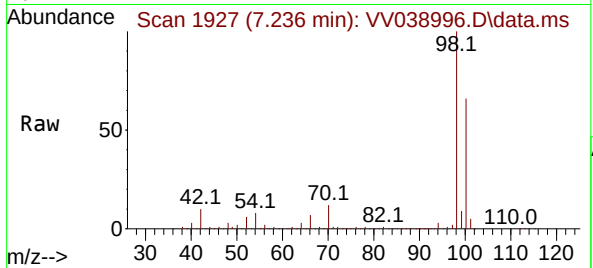




#50  
Toluene-d8  
Concen: 44.564 ug/l  
RT: 7.236 min Scan# 1927  
Delta R.T. -0.000 min  
Lab File: VV038996.D  
Acq: 21 Aug 2025 21:06

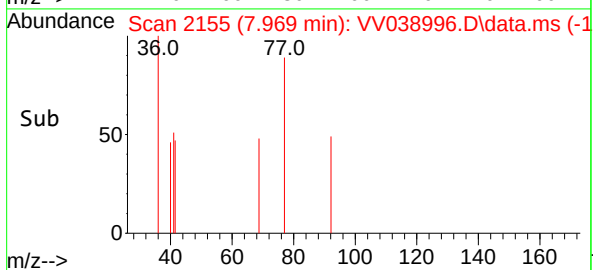
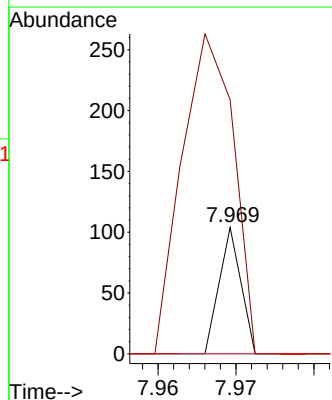
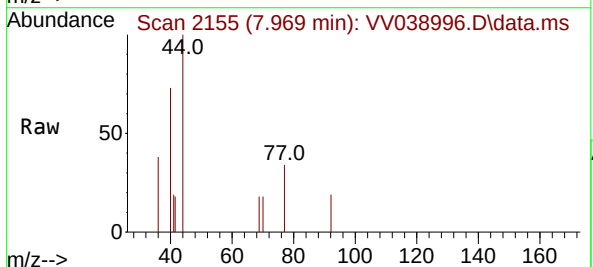
Instrument :  
MSVOA\_V  
ClientSampleId :

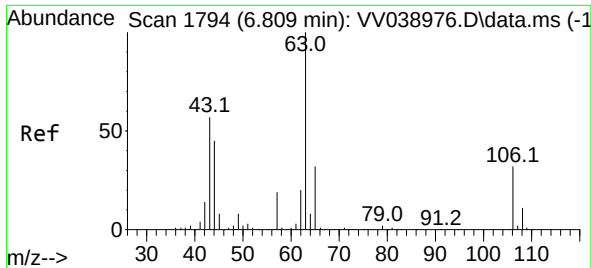
Tgt Ion: 98 Resp: 1263312  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.2 78.2



#56  
Ethyl methacrylate  
Concen: 2.317 ug/l  
RT: 7.969 min Scan# 2155  
Delta R.T. 0.254 min  
Lab File: VV038996.D  
Acq: 21 Aug 2025 21:06

Tgt Ion: 69 Resp: 20  
Ion Ratio Lower Upper  
69 100  
41 605.0 47.5 71.3#  
39 0.0 24.2 36.2#

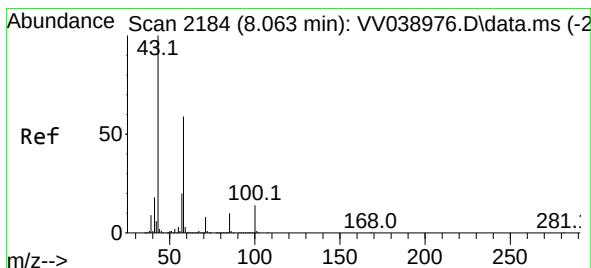
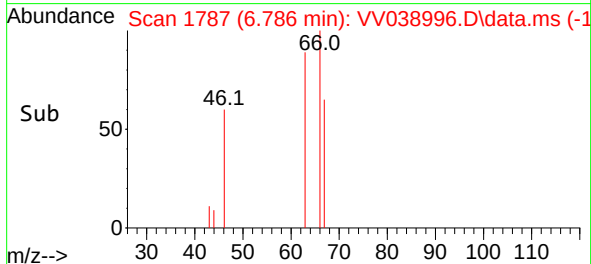
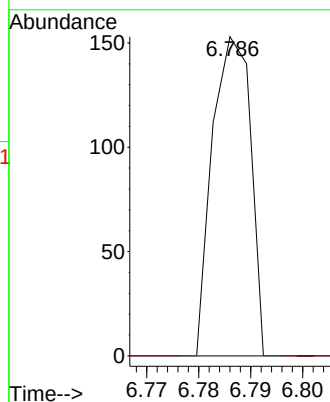
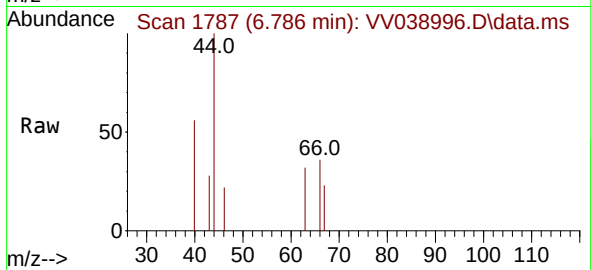




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 4.997 ug/l  
 RT: 6.786 min Scan# 11  
 Delta R.T. -0.023 min  
 Lab File: VV038996.D  
 Acq: 21 Aug 2025 21:06

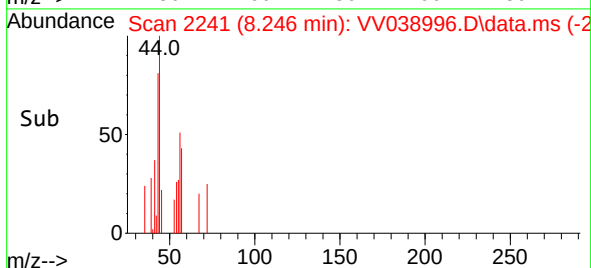
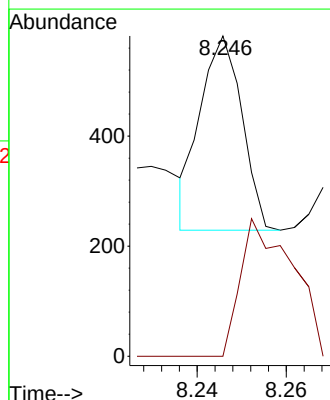
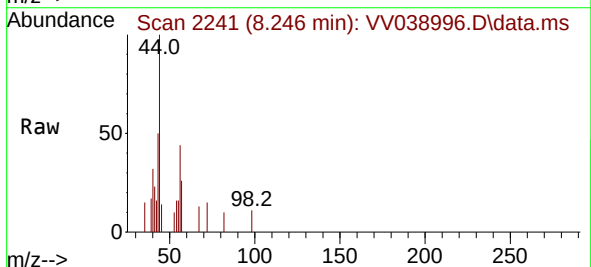
Instrument :  
 MSVOA\_V  
 ClientSampleId :

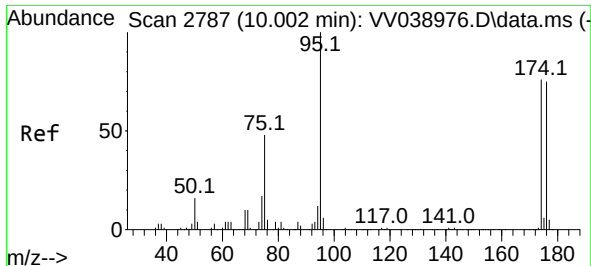
Tgt Ion: 63 Resp: 78  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 25.6 38.4#



#59  
 2-Hexanone  
 Concen: 10.917 ug/l  
 RT: 8.246 min Scan# 2241  
 Delta R.T. 0.183 min  
 Lab File: VV038996.D  
 Acq: 21 Aug 2025 21:06

Tgt Ion: 43 Resp: 229  
 Ion Ratio Lower Upper  
 43 100  
 58 88.2 29.8 89.4





#62

4-Bromofluorobenzene

Concen: 41.699 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

Instrument :

MSVOA\_V

ClientSampleId :

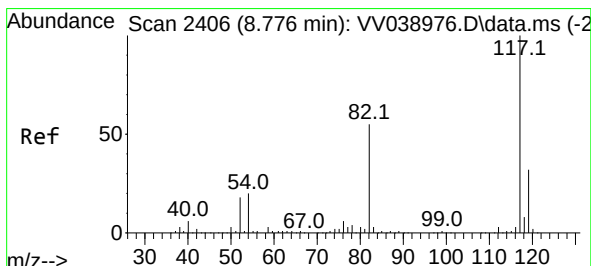
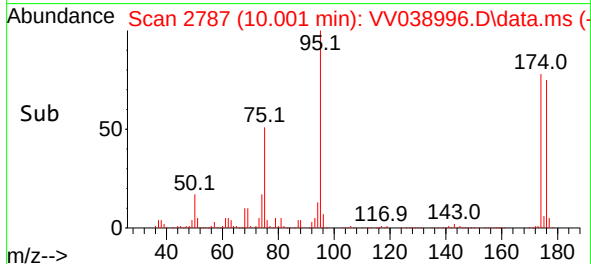
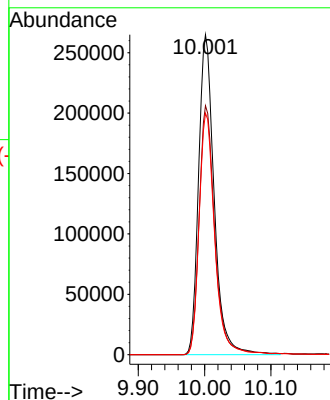
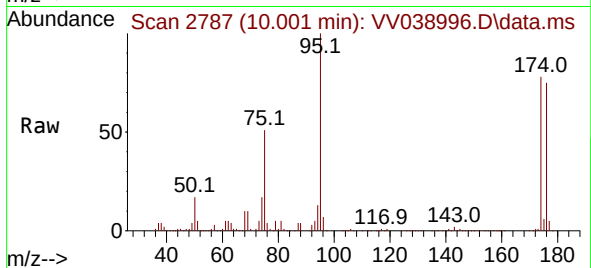
Tgt Ion: 95 Resp: 432441

Ion Ratio Lower Upper

95 100

174 78.3 0.0 154.4

176 75.3 0.0 148.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2406

Delta R.T. 0.000 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

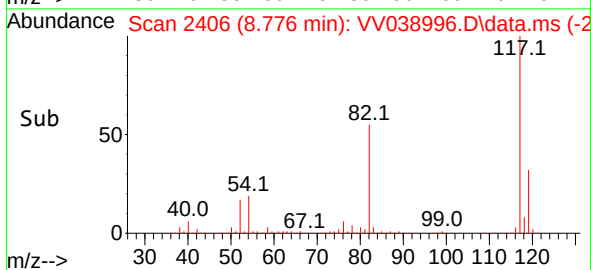
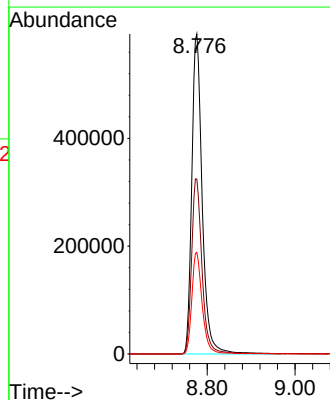
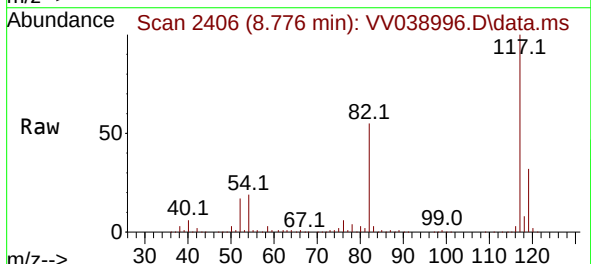
Tgt Ion: 117 Resp: 978319

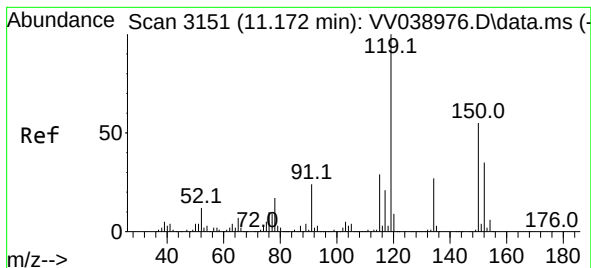
Ion Ratio Lower Upper

117 100

82 54.7 44.4 66.6

119 31.8 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV038996.D

Acq: 21 Aug 2025 21:06

Instrument :

MSVOA\_V

ClientSampleId :

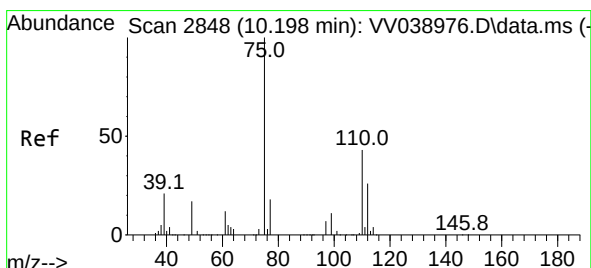
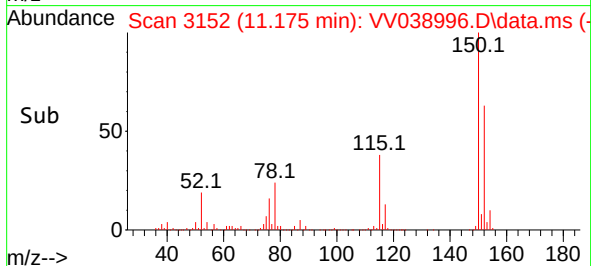
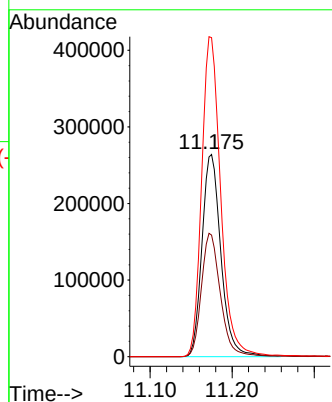
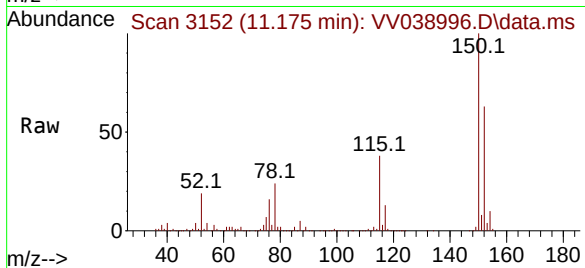
Tgt Ion:152 Resp: 424569

Ion Ratio Lower Upper

152 100

115 61.0 42.5 127.5

150 158.5 0.0 344.8



#76

1,2,3-Trichloropropane

Concen: 27.685 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV038996.D

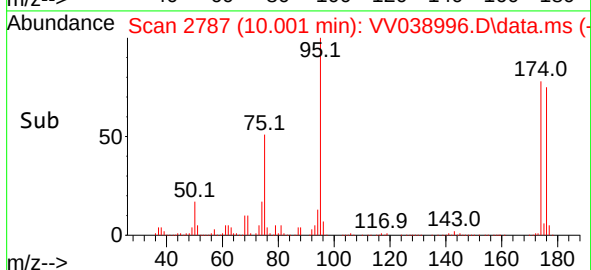
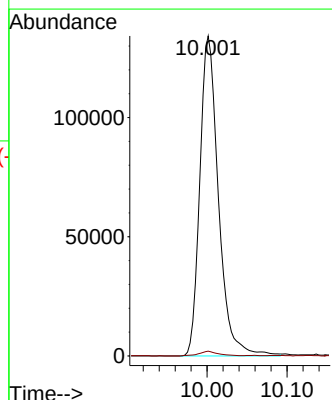
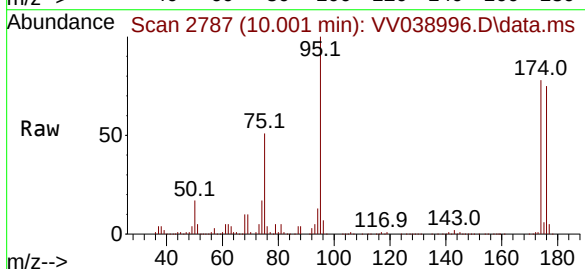
Acq: 21 Aug 2025 21:06

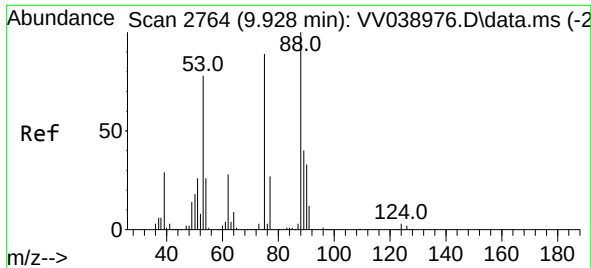
Tgt Ion: 75 Resp: 218024

Ion Ratio Lower Upper

75 100

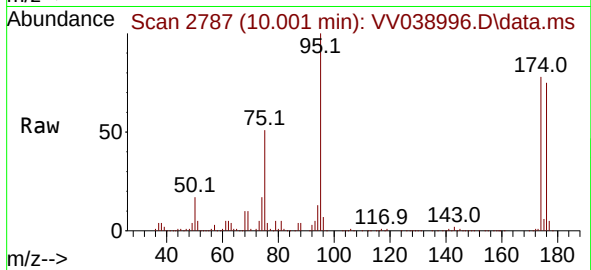
77 1.6 11.3 33.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 63.561 ug/l  
 RT: 10.001 min Scan# 21  
 Delta R.T. 0.074 min  
 Lab File: VV038996.D  
 Acq: 21 Aug 2025 21:06

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 75 Resp: 218024  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 70.3 105.5#  
 89 0.0 37.9 56.9#

