

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100125\  
 Data File : VX047943.D  
 Acq On : 01 Oct 2025 16:11  
 Operator : JC/MD  
 Sample : Q3194-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT189D1-20250922

Quant Time: Oct 03 01:25:16 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      | 5.543  | 168  | 128314   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.751  | 114  | 270415   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.037 | 117  | 276943   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.006 | 152  | 139689   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 5.946  | 65    | 112531   | 55.096   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | = 110.200% |      |
| 35) Dibromofluoromethane    | 5.373  | 113   | 91167    | 50.270   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 100.540% |      |
| 50) Toluene-d8              | 8.634  | 98    | 305138   | 48.626   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | = 97.260%  |      |
| 62) 4-Bromofluorobenzene    | 11.067 | 95    | 132121   | 55.476   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 110.960% |      |

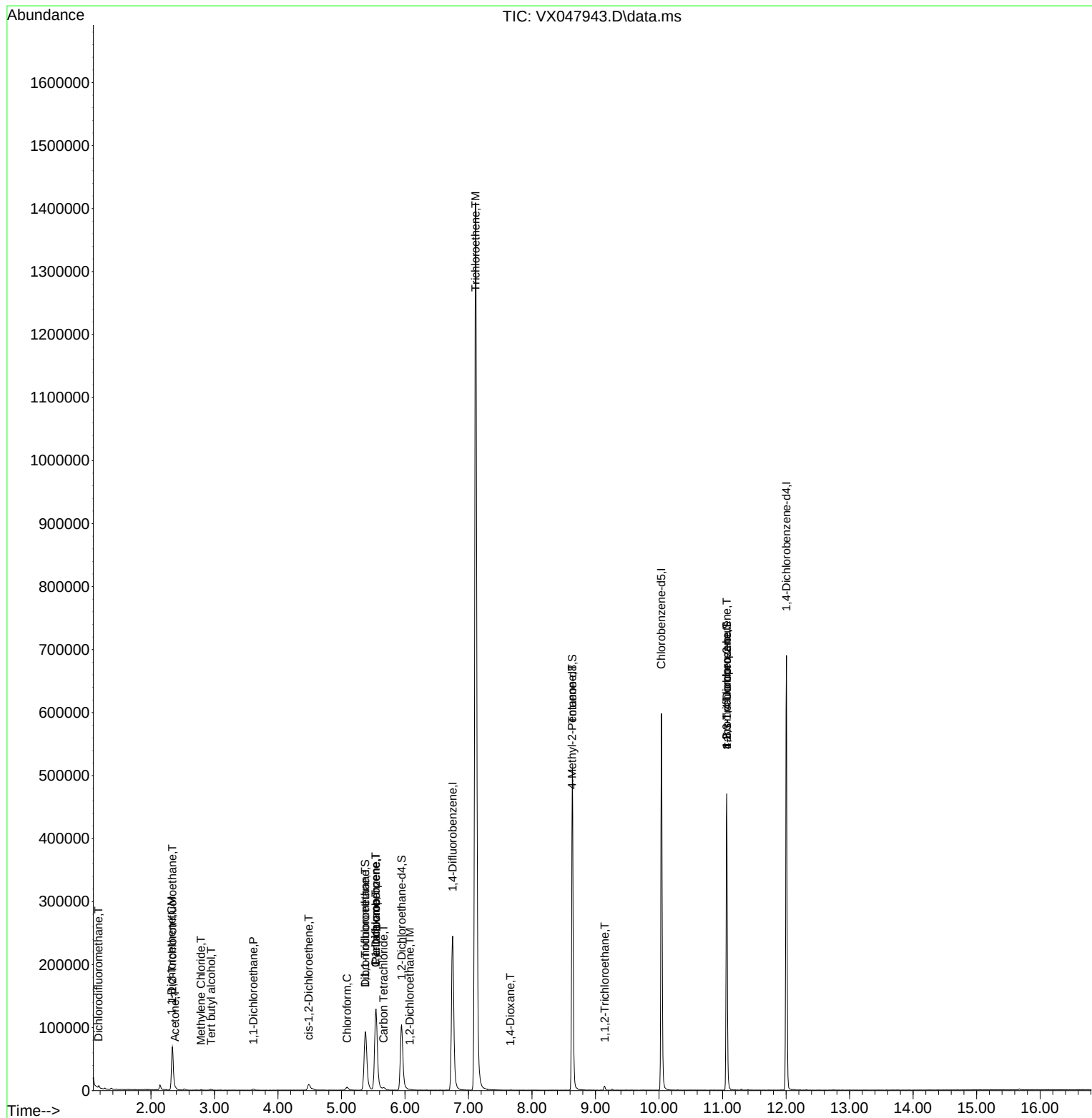
|                               |        |     |        |         |        |    |
|-------------------------------|--------|-----|--------|---------|--------|----|
| Target Compounds              |        |     |        |         | Qvalue |    |
| 2) Dichlorodifluoromethane    | 1.172  | 85  | 1416   | 1.066   | ug/l   | 86 |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337  | 101 | 27837  | 18.756  | ug/l   | 99 |
| 11) Tert butyl alcohol        | 2.946  | 59  | 511    | 2.246   | ug/l # | 72 |
| 12) 1,1-Dichloroethene        | 2.325  | 96  | 4815   | 3.158   | ug/l   | 92 |
| 16) Acetone                   | 2.379  | 43  | 1550   | 1.745   | ug/l   | 99 |
| 20) Methylene Chloride        | 2.788  | 84  | 413    | 0.220   | ug/l # | 44 |
| 24) 1,1-Dichloroethane        | 3.611  | 63  | 2656   | 0.820   | ug/l # | 81 |
| 27) cis-1,2-Dichloroethene    | 4.483  | 96  | 6844   | 3.405   | ug/l   | 86 |
| 30) Chloroform                | 5.086  | 83  | 6011   | 1.836   | ug/l # | 81 |
| 31) Cyclohexane               | 5.537  | 56  | 2978   | 1.103   | ug/l # | 33 |
| 32) 1,1,1-Trichloroethane     | 5.373  | 97  | 718    | 0.259   | ug/l # | 50 |
| 36) 1,1-Dichloropropene       | 5.537  | 75  | 10812  | 4.080   | ug/l # | 51 |
| 38) Carbon Tetrachloride      | 5.659  | 117 | 3151   | 1.094   | ug/l # | 74 |
| 42) 1,2-Dichloroethane        | 6.074  | 62  | 796    | 0.260   | ug/l # | 76 |
| 44) Trichloroethene           | 7.110  | 130 | 582988 | 299.597 | ug/l   | 96 |
| 49) 1,4-Dioxane               | 7.659  | 88  | 336    | 14.343  | ug/l # | 47 |
| 51) 4-Methyl-2-Pentanone      | 8.628  | 43  | 1470   | 0.570   | ug/l # | 1  |
| 55) 1,1,2-Trichloroethane     | 9.147  | 97  | 1872   | 0.979   | ug/l # | 89 |
| 76) 1,2,3-Trichloropropane    | 11.067 | 75  | 69153  | 24.451  | ug/l # | 39 |
| 81) trans-1,4-Dichloro-2-b... | 11.067 | 75  | 69153  | 62.353  | ug/l # | 8  |

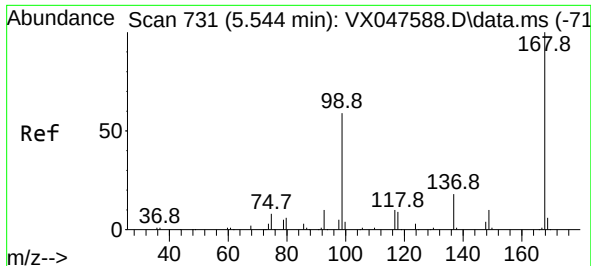
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100125\  
Data File : VX047943.D  
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Operator : JC/MD  
Sample : Q3194-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

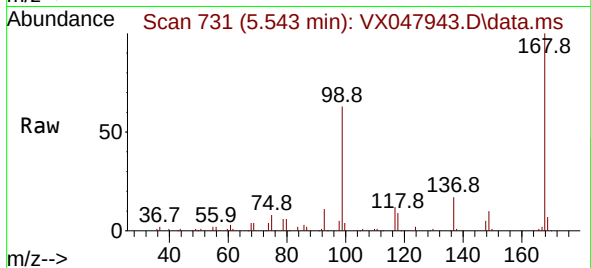
Quant Time: Oct 03 01:25:16 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 17 06:39:58 2025  
Response via : Initial Calibration



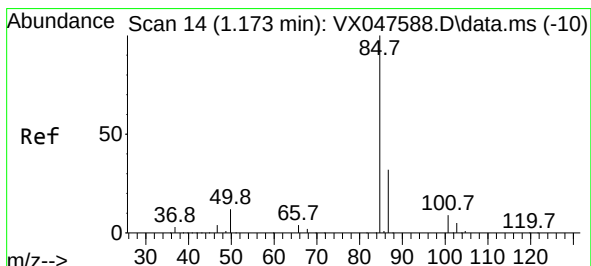
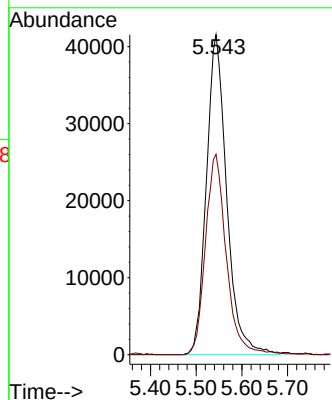
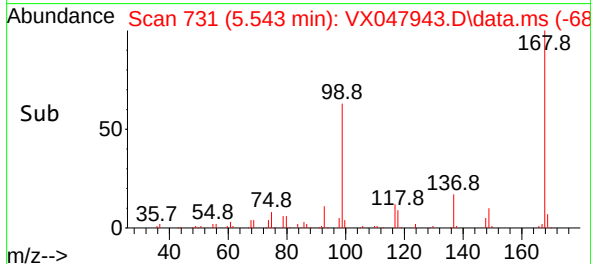


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.543 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

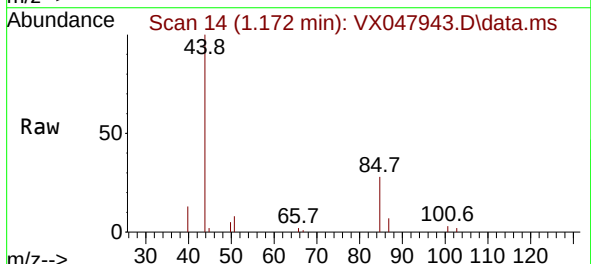
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922



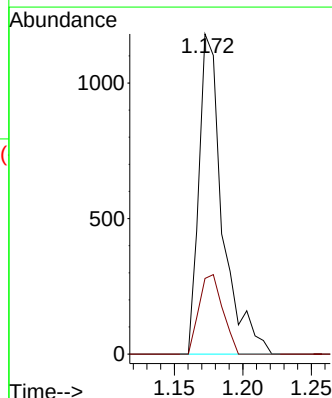
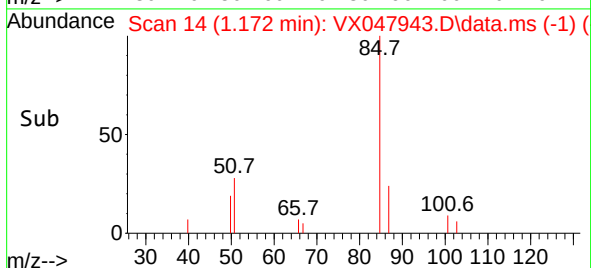
Tgt Ion:168 Resp: 128314  
Ion Ratio Lower Upper  
168 100  
99 62.6 48.8 73.2

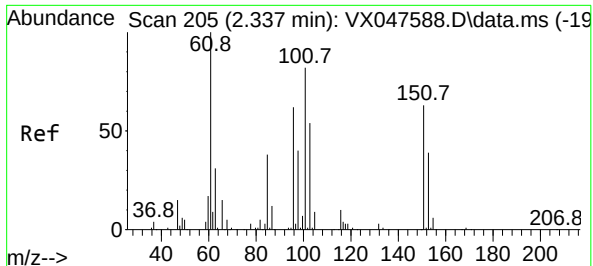


#2  
Dichlorodifluoromethane  
Concen: 1.066 ug/l  
RT: 1.172 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11



Tgt Ion: 85 Resp: 1416  
Ion Ratio Lower Upper  
85 100  
87 23.6 15.8 47.3

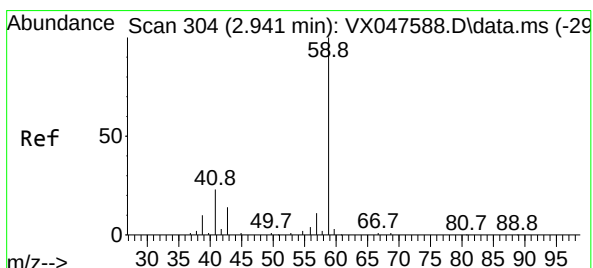
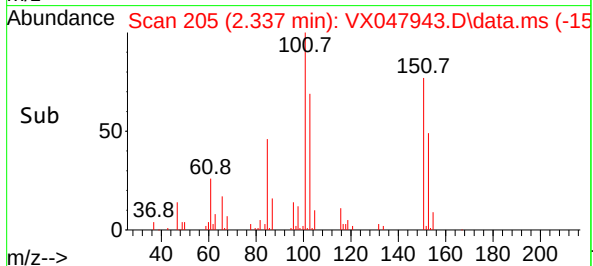
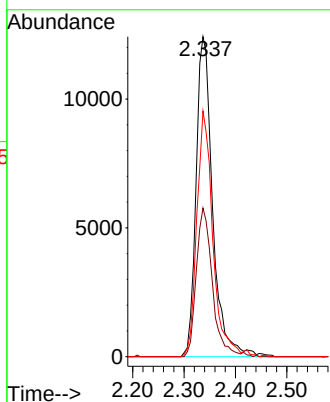
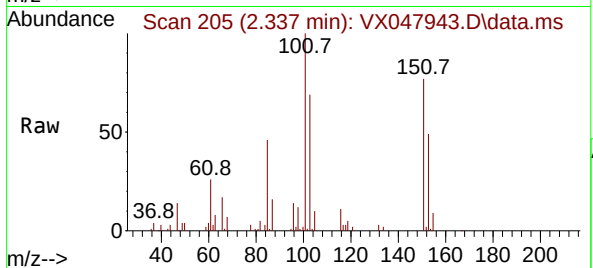




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 18.756 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

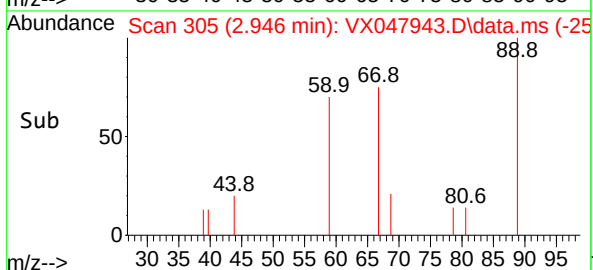
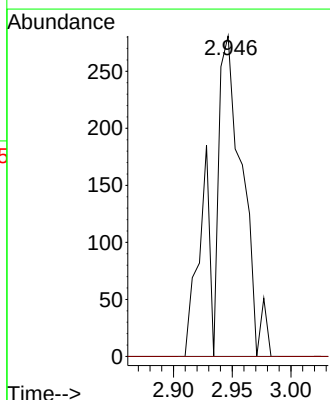
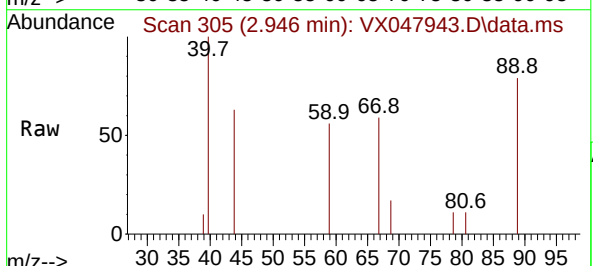
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

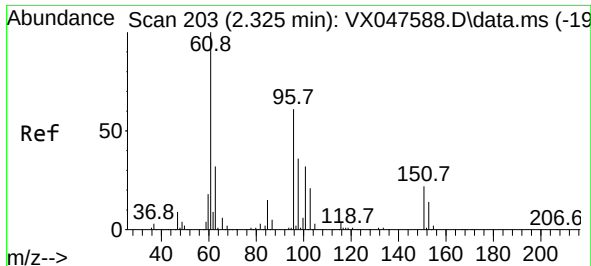
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 27837 |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 45.3  | 35.5  | 53.3  |
| 151      | 74.6  | 59.4  | 89.0  |



#11  
Tert butyl alcohol  
Concen: 2.246 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. 0.006 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 511   |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 0.0   | 8.3   | 12.5  |





#12

1,1-Dichloroethene

Concen: 3.158 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047943.D

Acq: 01 Oct 2025 16:11

Instrument :

MSVOA\_X

ClientSampleId :

TT189D1-20250922

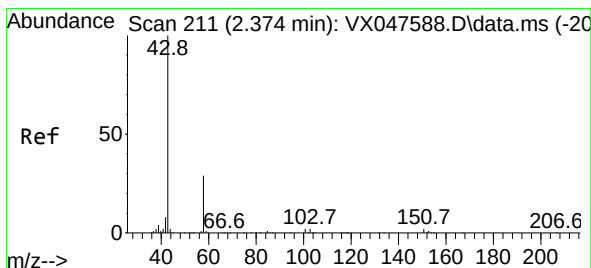
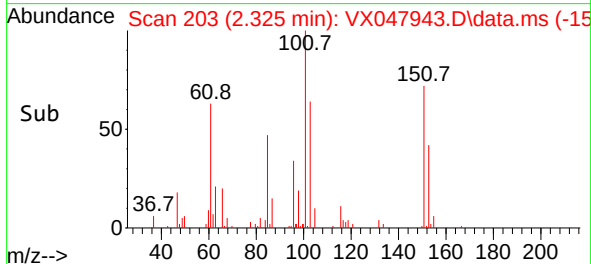
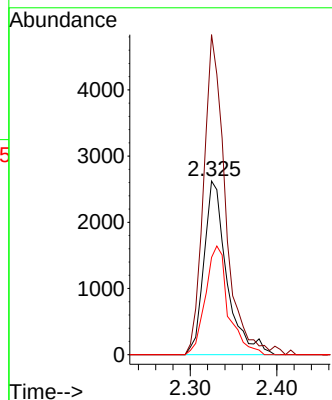
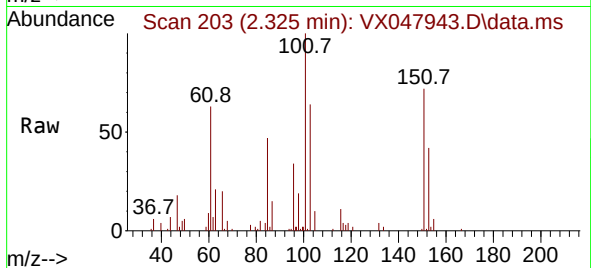
Tgt Ion: 96 Resp: 4815

Ion Ratio Lower Upper

96 100

61 175.7 131.0 196.6

98 55.7 47.7 71.5



#16

Acetone

Concen: 1.745 ug/l

RT: 2.379 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX047943.D

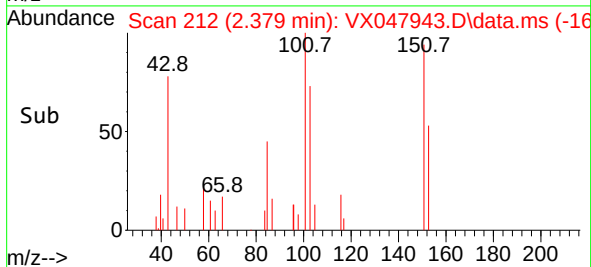
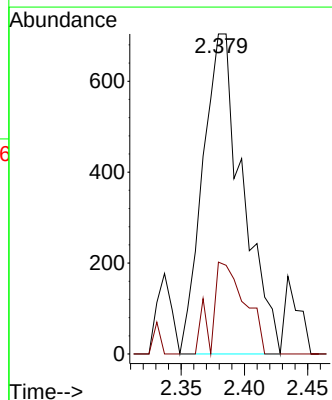
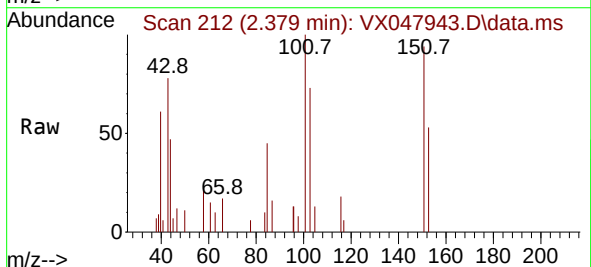
Acq: 01 Oct 2025 16:11

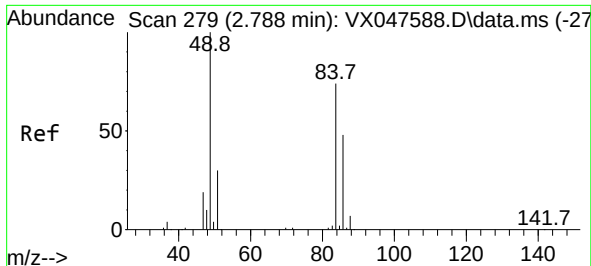
Tgt Ion: 43 Resp: 1550

Ion Ratio Lower Upper

43 100

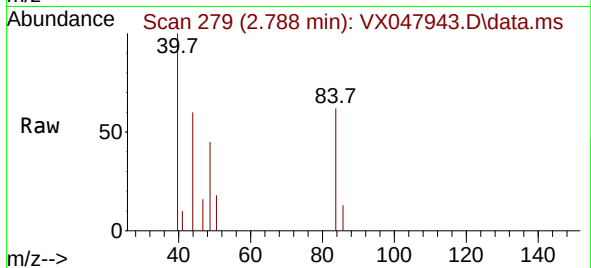
58 28.7 23.4 35.0



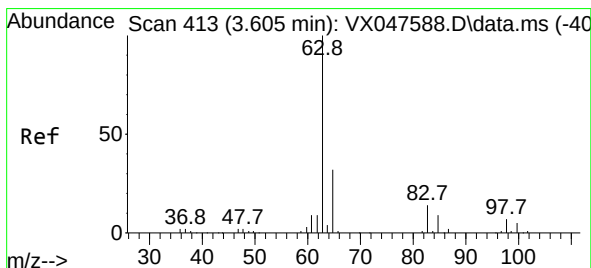
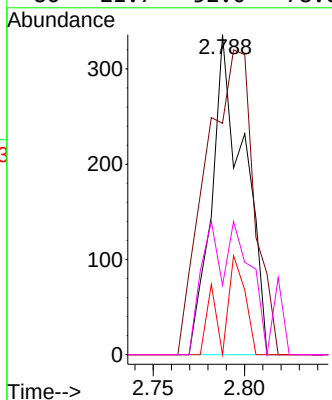
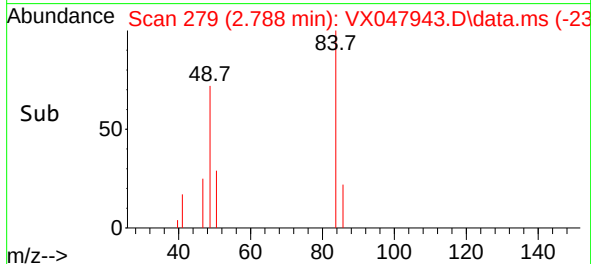


#20  
Methylene Chloride  
Concen: 0.220 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

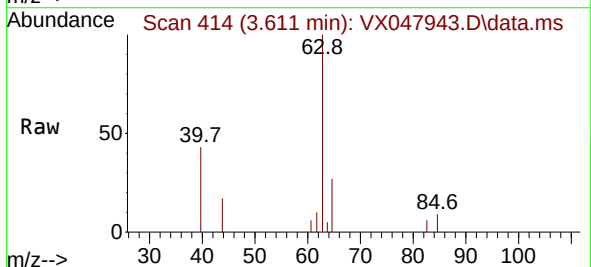
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922



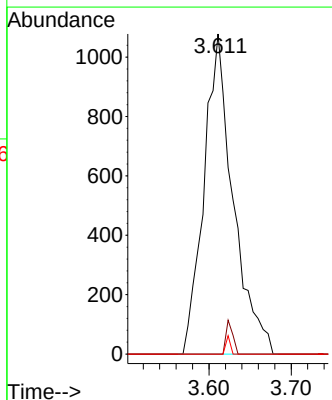
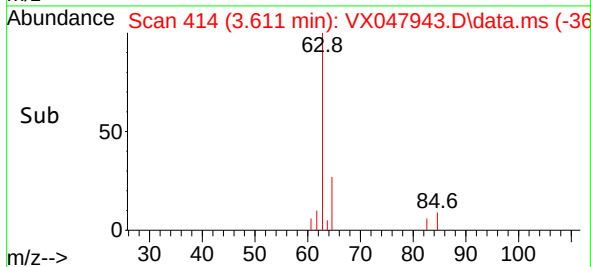
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|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 413    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 72.3  | 108.6 | 162.8# |
| 51       | 0.0   | 32.6  | 48.8#  |
| 86       | 21.7  | 52.0  | 78.0#  |

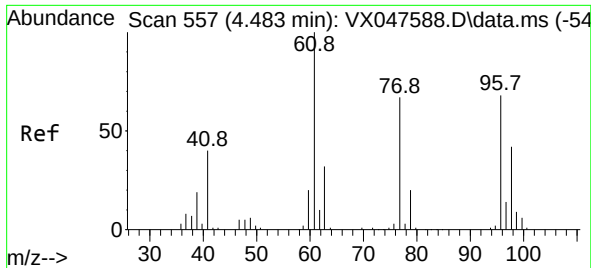


#24  
1,1-Dichloroethane  
Concen: 0.820 ug/l  
RT: 3.611 min Scan# 414  
Delta R.T. 0.006 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 2656  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 3.8   | 11.2# |
| 100      | 0.0   | 2.3   | 6.9#  |

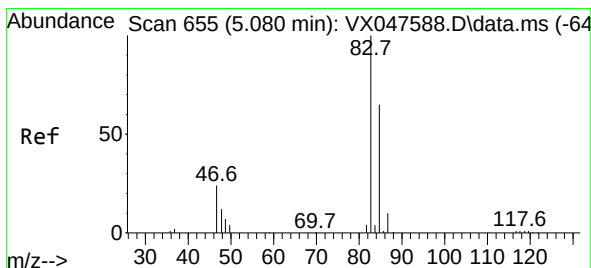
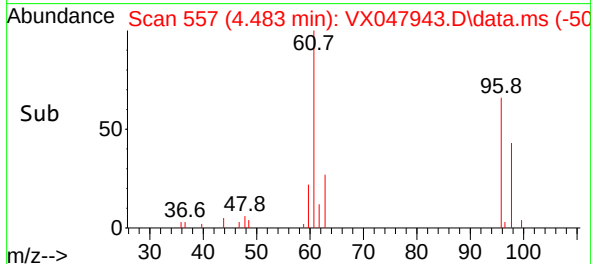
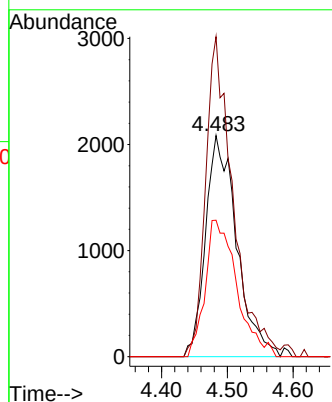
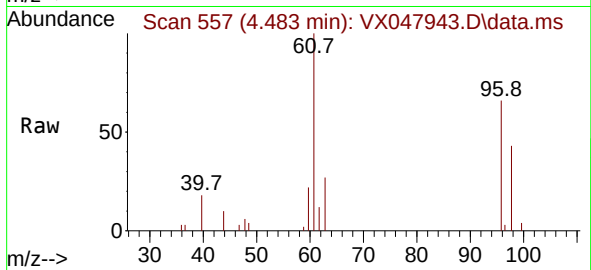




#27  
 cis-1,2-Dichloroethene  
 Concen: 3.405 ug/l  
 RT: 4.483 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VX047943.D  
 Acq: 01 Oct 2025 16:11

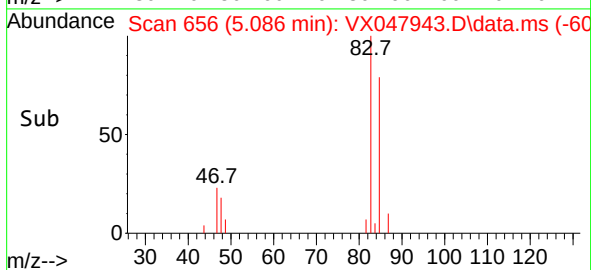
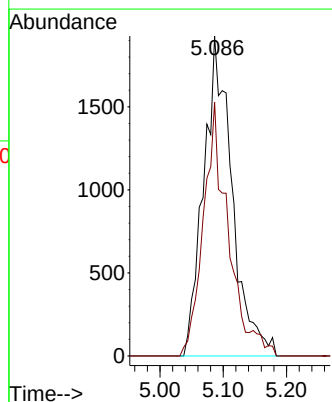
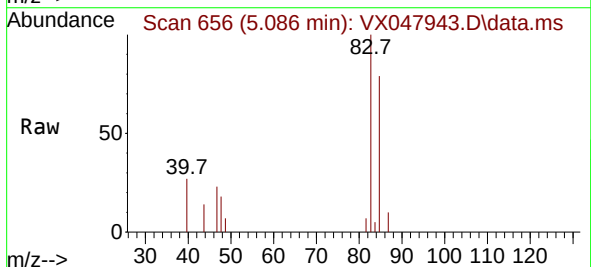
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 MSVOA\_X  
 ClientSampleId :  
 TT189D1-20250922

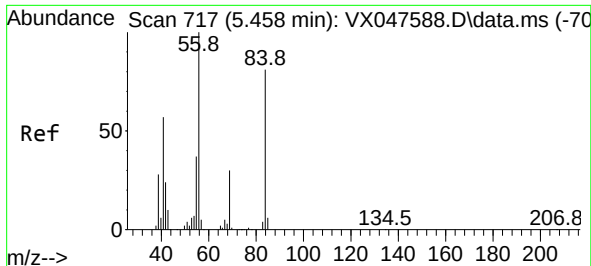
Tgt Ion: 96 Resp: 6844  
 Ion Ratio Lower Upper  
 96 100  
 61 126.8 0.0 303.2  
 98 62.8 0.0 127.8



#30  
 Chloroform  
 Concen: 1.836 ug/l  
 RT: 5.086 min Scan# 656  
 Delta R.T. 0.006 min  
 Lab File: VX047943.D  
 Acq: 01 Oct 2025 16:11

Tgt Ion: 83 Resp: 6011  
 Ion Ratio Lower Upper  
 83 100  
 85 79.3 51.8 77.6#

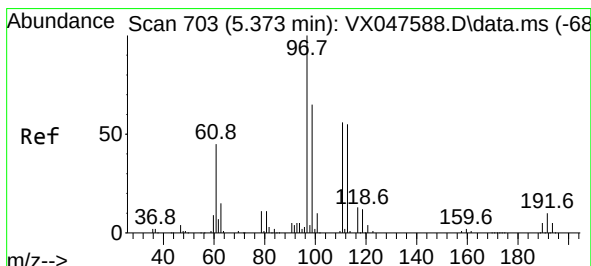
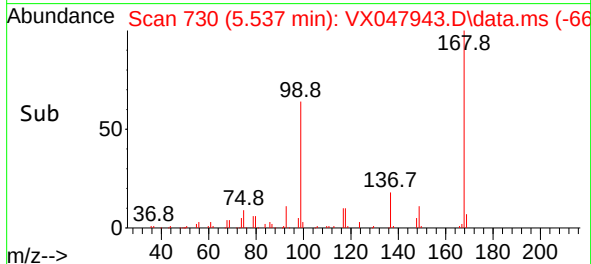
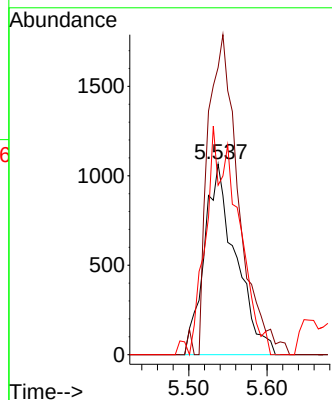
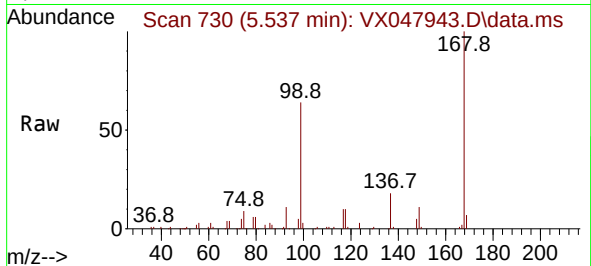




#31  
Cyclohexane  
Concen: 1.103 ug/l  
RT: 5.537 min Scan# 717  
Delta R.T. 0.079 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

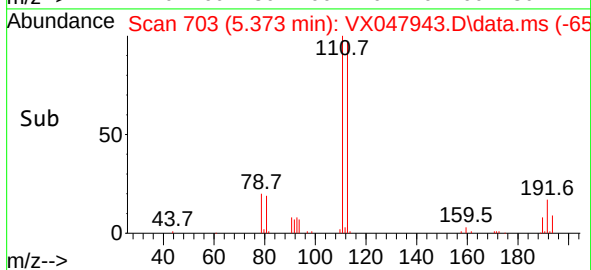
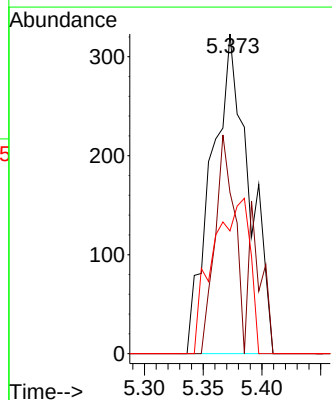
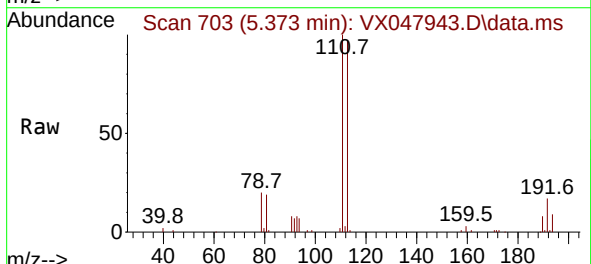
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

Tgt Ion: 56 Resp: 2978  
Ion Ratio Lower Upper  
56 100  
69 150.8 23.8 35.8#  
84 88.9 64.6 97.0

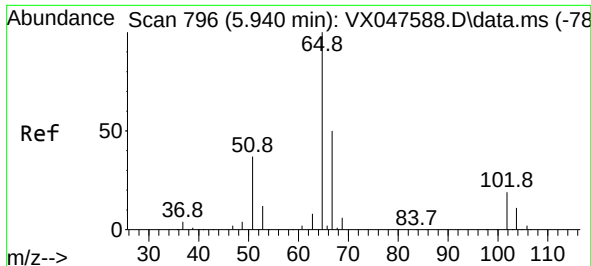


#32  
1,1,1-Trichloroethane  
Concen: 0.259 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

Tgt Ion: 97 Resp: 718  
Ion Ratio Lower Upper  
97 100  
99 0.0 50.6 76.0#  
61 47.9 35.8 53.8







#33

1,2-Dichloroethane-d4

Concen: 55.096 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047943.D

Acq: 01 Oct 2025 16:11

Instrument :

MSVOA\_X

ClientSampleId :

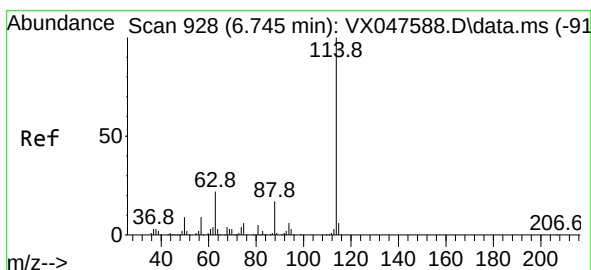
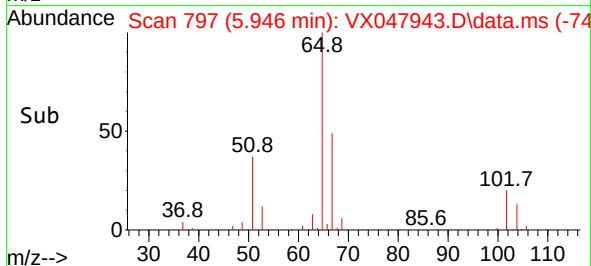
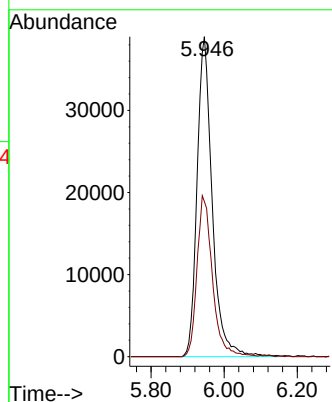
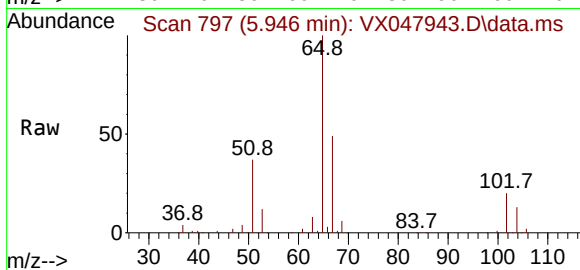
TT189D1-20250922

Tgt Ion: 65 Resp: 112531

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047943.D

Acq: 01 Oct 2025 16:11

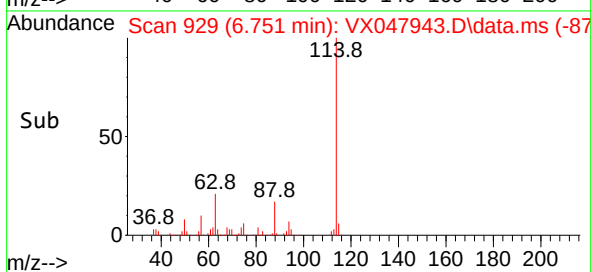
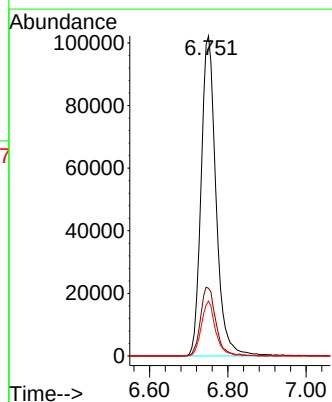
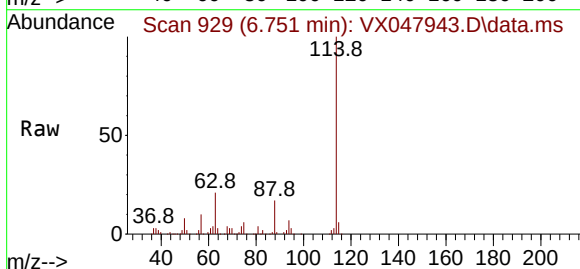
Tgt Ion: 114 Resp: 270415

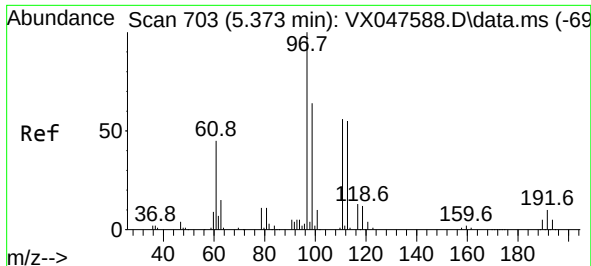
Ion Ratio Lower Upper

114 100

63 21.2 0.0 44.0

88 17.2 0.0 34.2

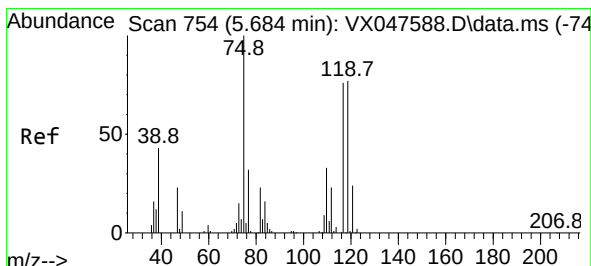
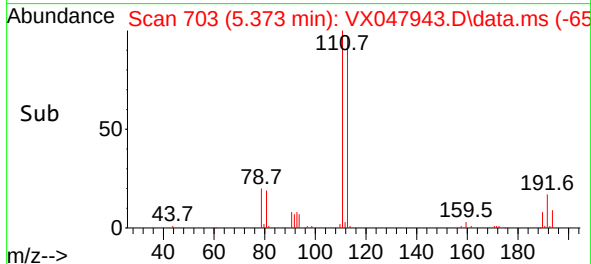
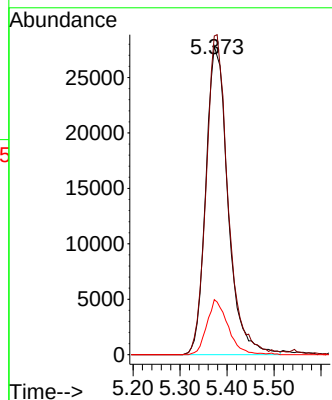
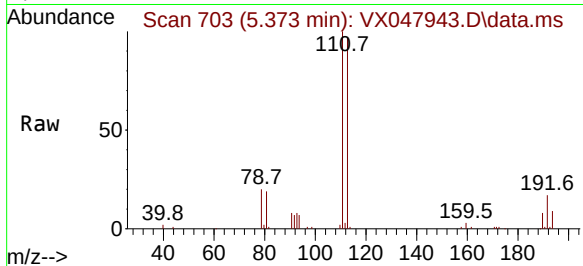




#35  
Dibromofluoromethane  
Concen: 50.270 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

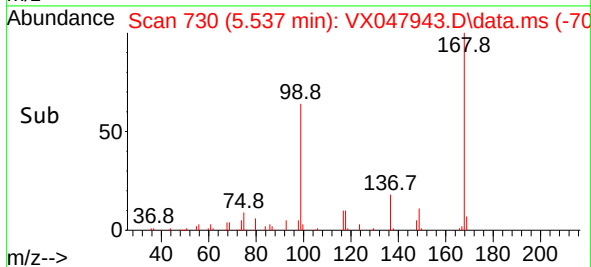
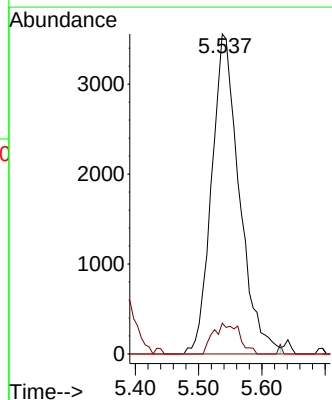
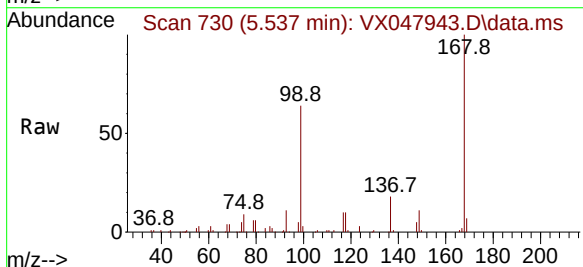
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

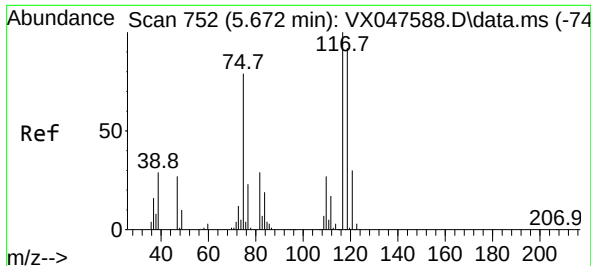
Tgt Ion:113 Resp: 91167  
Ion Ratio Lower Upper  
113 100  
111 102.5 80.9 121.3  
192 17.0 14.2 21.4



#36  
1,1-Dichloropropene  
Concen: 4.080 ug/l  
RT: 5.537 min Scan# 730  
Delta R.T. -0.147 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

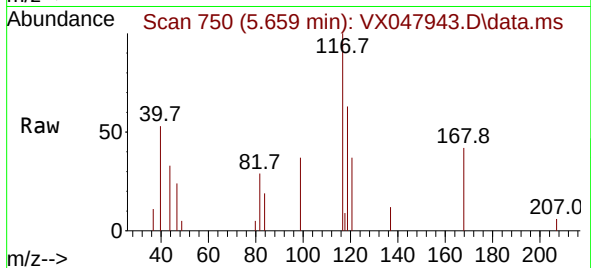
Tgt Ion: 75 Resp: 10812  
Ion Ratio Lower Upper  
75 100  
110 9.1 16.7 50.1#  
77 0.0 24.3 36.5#



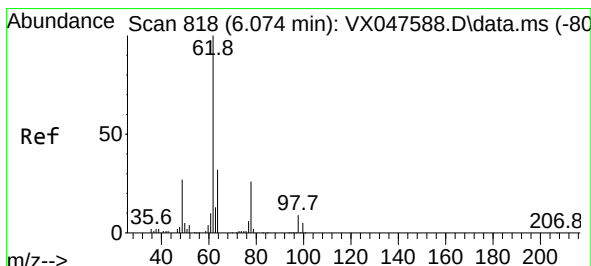
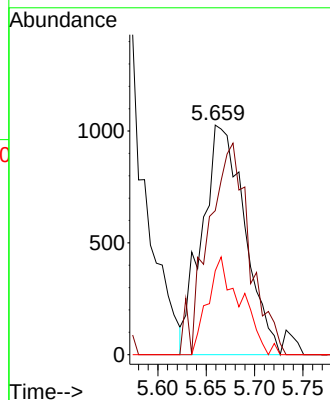
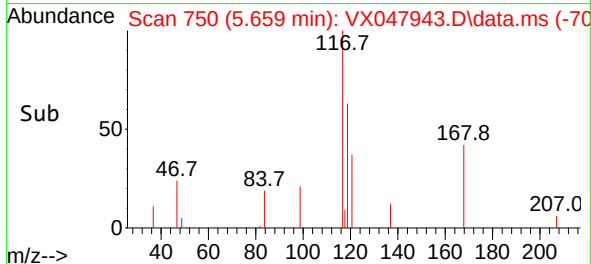


#38  
Carbon Tetrachloride  
Concen: 1.094 ug/l  
RT: 5.659 min Scan# 711  
Delta R.T. -0.012 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

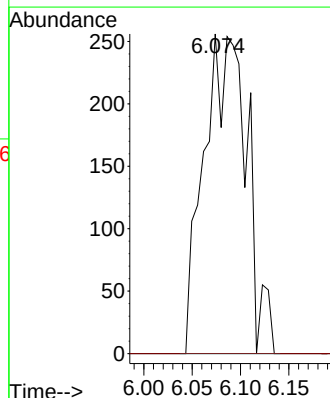
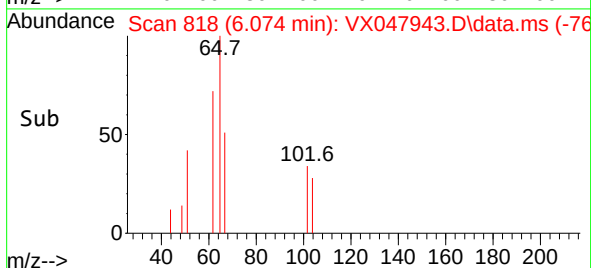
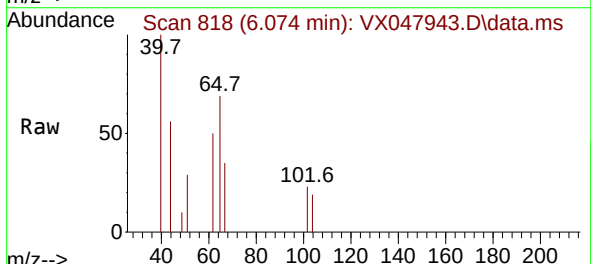


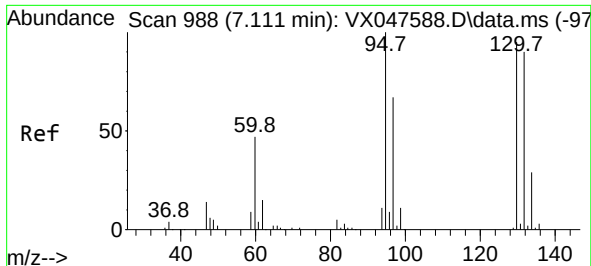
Tgt Ion:117 Resp: 3151  
Ion Ratio Lower Upper  
117 100  
119 62.7 73.4 110.2#  
121 36.5 23.8 35.6#



#42  
1,2-Dichloroethane  
Concen: 0.260 ug/l  
RT: 6.074 min Scan# 818  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

Tgt Ion: 62 Resp: 796  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 17.0

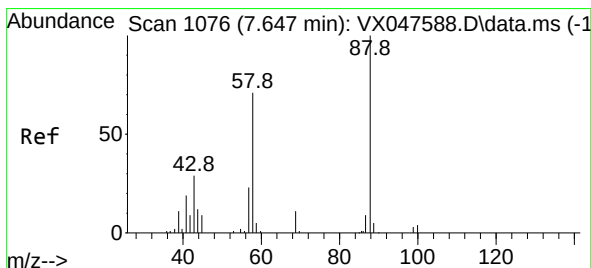
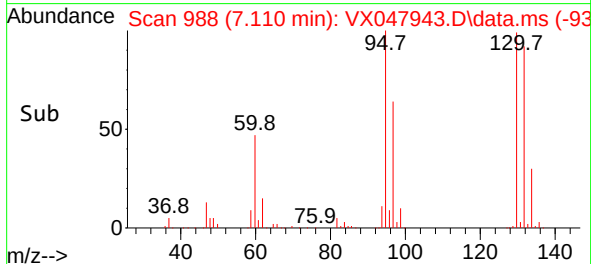
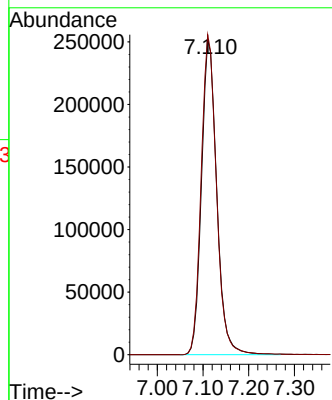
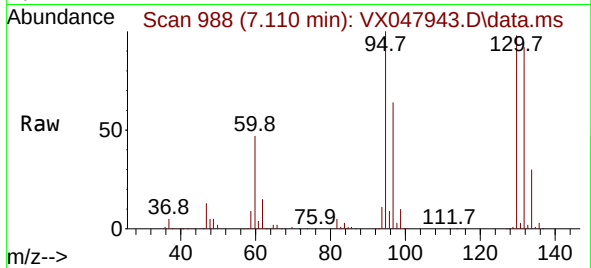




#44  
Trichloroethene  
Concen: 299.597 ug/l  
RT: 7.110 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

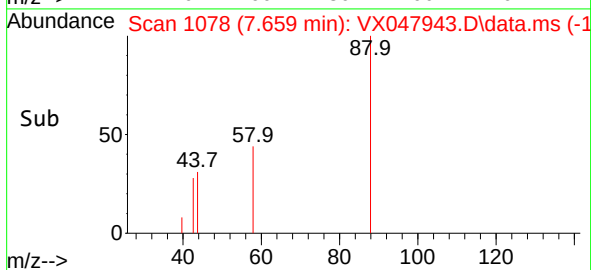
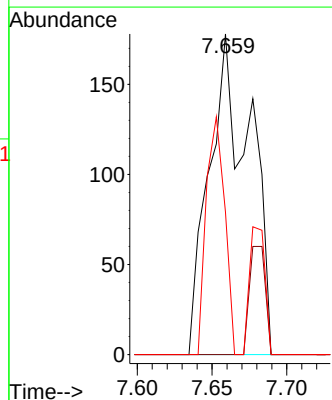
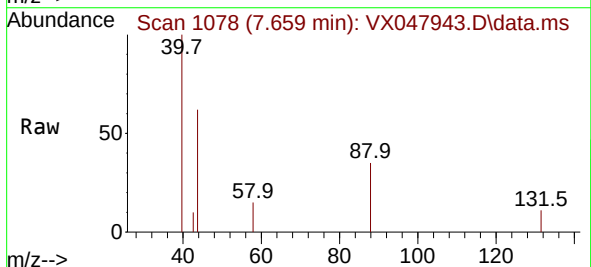
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

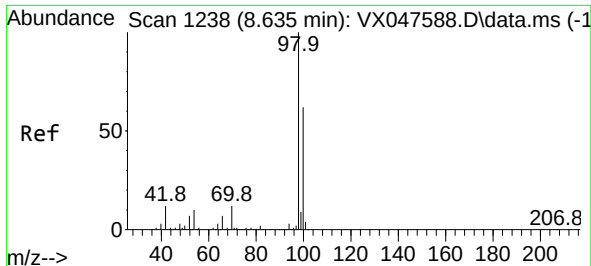
Tgt Ion:130 Resp: 582988  
Ion Ratio Lower Upper  
130 100  
95 101.5 0.0 210.8



#49  
1,4-Dioxane  
Concen: 14.343 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. 0.012 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

Tgt Ion: 88 Resp: 336  
Ion Ratio Lower Upper  
88 100  
43 0.0 30.2 45.2#  
58 33.6 59.5 89.3#

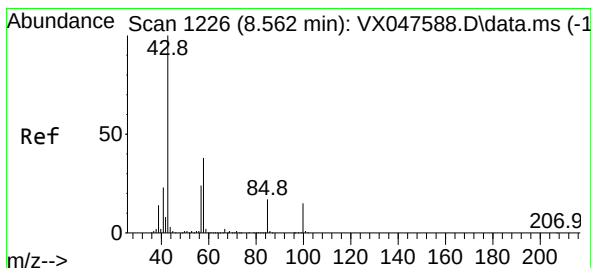
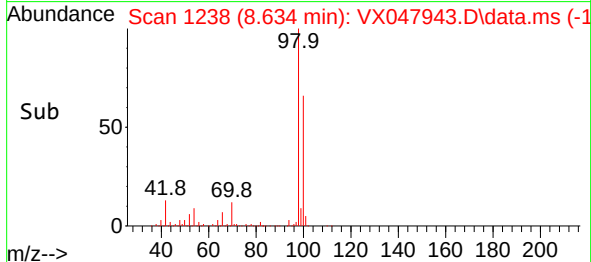
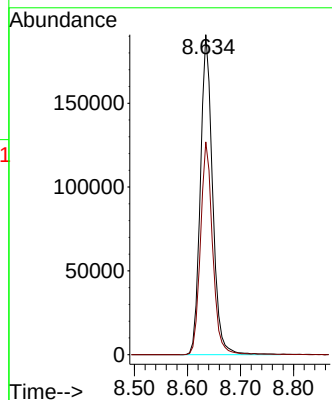
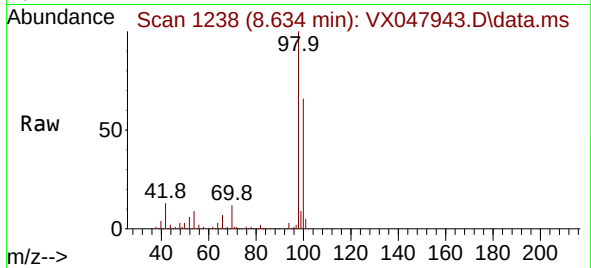




#50  
Toluene-d8  
Concen: 48.626 ug/l  
RT: 8.634 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

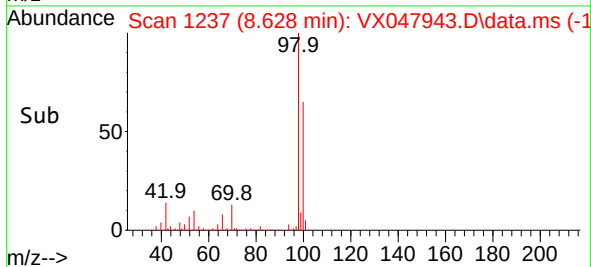
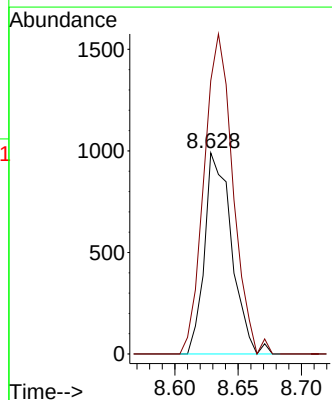
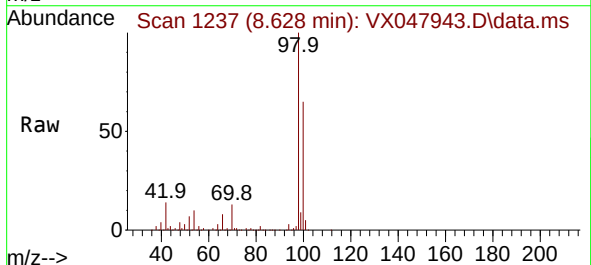
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

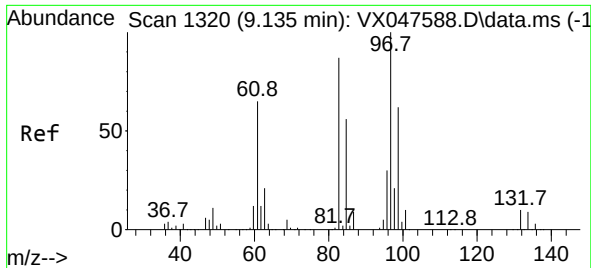
Tgt Ion: 98 Resp: 305138  
Ion Ratio Lower Upper  
98 100  
100 66.4 53.0 79.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.570 ug/l  
RT: 8.628 min Scan# 1237  
Delta R.T. 0.067 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

Tgt Ion: 43 Resp: 1470  
Ion Ratio Lower Upper  
43 100  
58 170.4 30.3 45.5#

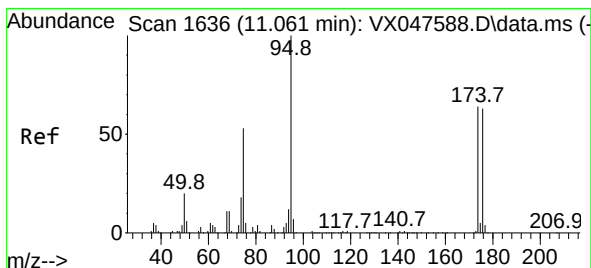
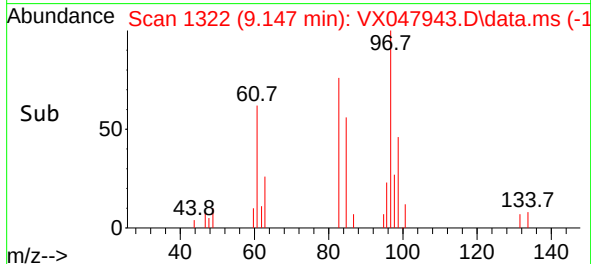
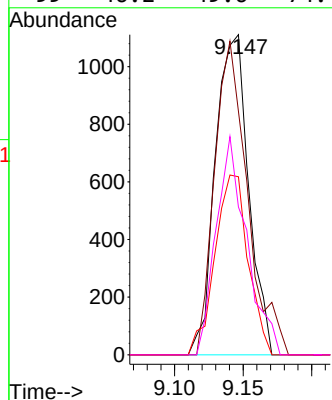
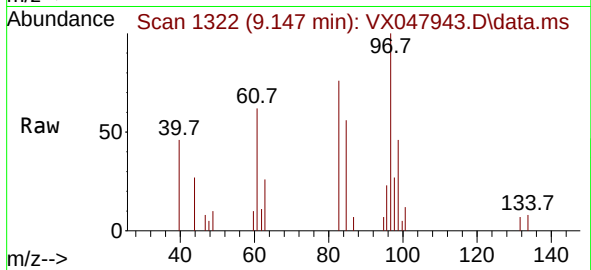




#55  
1,1,2-Trichloroethane  
Concen: 0.979 ug/l  
RT: 9.147 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

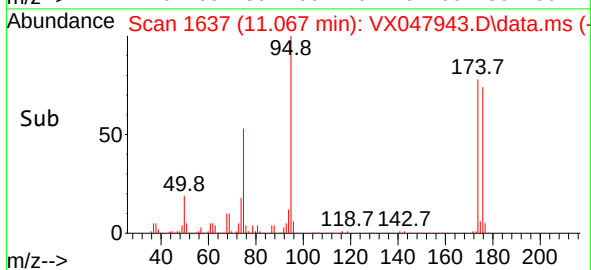
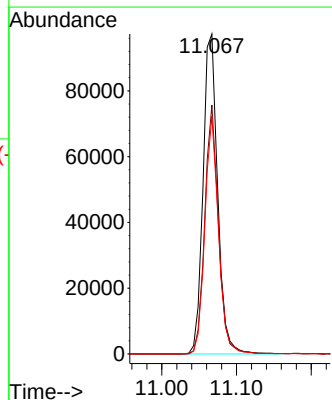
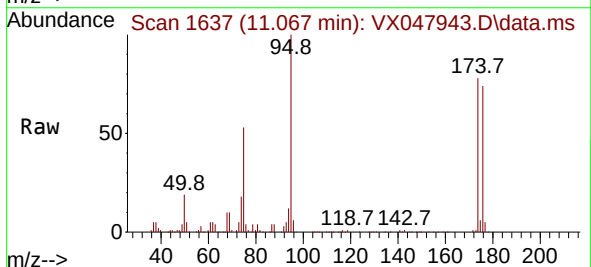
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

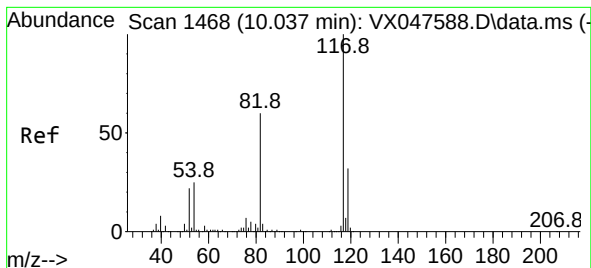
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 1872  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 76.1  | 69.6  | 104.4 |
| 85       | 55.6  | 45.0  | 67.6  |
| 99       | 46.2  | 49.6  | 74.4  |



#62  
4-Bromofluorobenzene  
Concen: 55.476 ug/l  
RT: 11.067 min Scan# 1637  
Delta R.T. 0.006 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 132121 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 73.1  | 0.0   | 141.6  |
| 176      | 69.4  | 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: VX047943.D

Acq: 01 Oct 2025 16:11

Instrument :

MSVOA\_X

ClientSampleId :

TT189D1-20250922

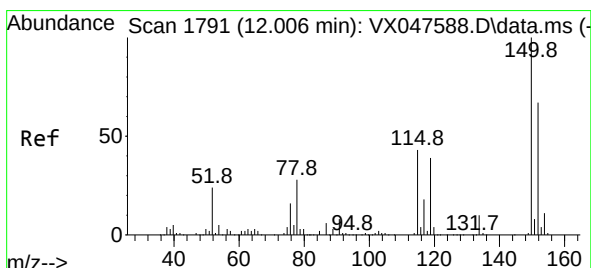
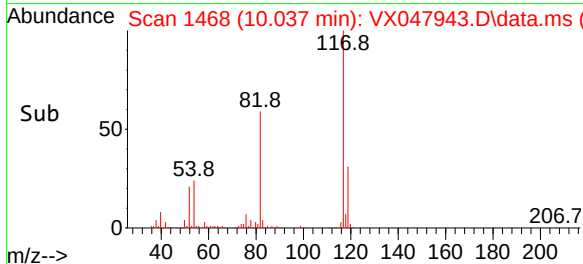
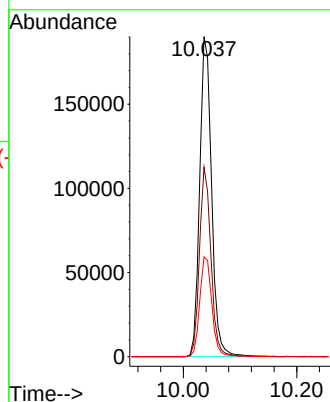
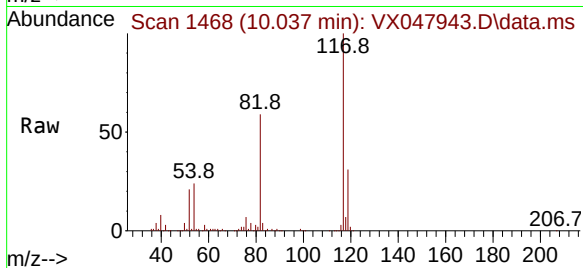
Tgt Ion:117 Resp: 276943

Ion Ratio Lower Upper

117 100

82 59.2 47.8 71.6

119 31.2 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047943.D

Acq: 01 Oct 2025 16:11

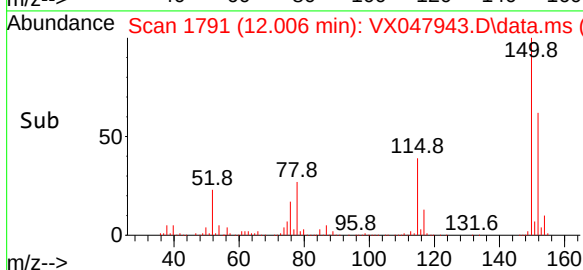
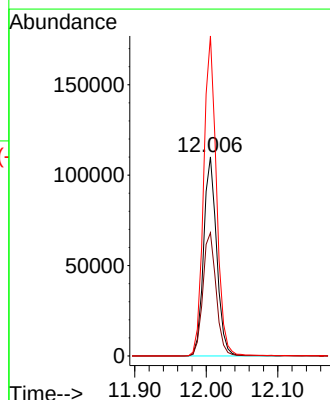
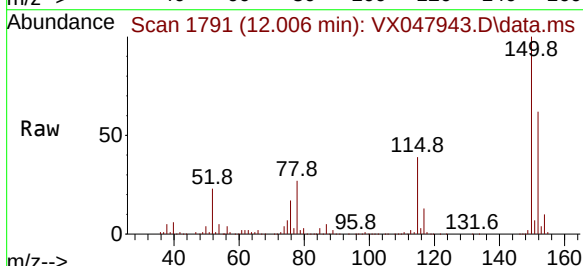
Tgt Ion:152 Resp: 139689

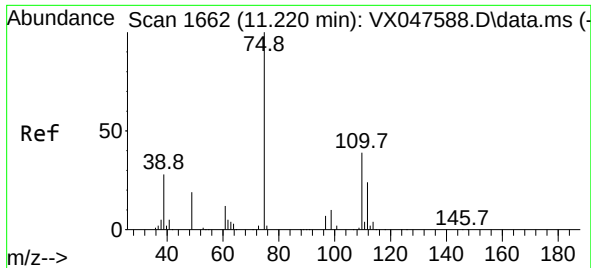
Ion Ratio Lower Upper

152 100

115 62.9 44.9 134.5

150 158.6 0.0 352.0

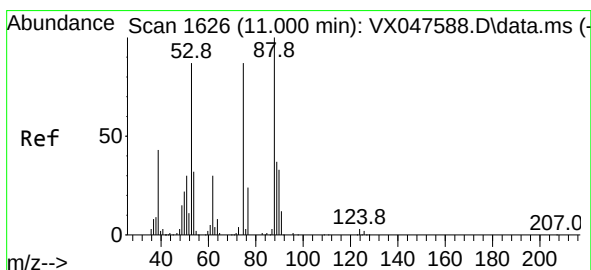
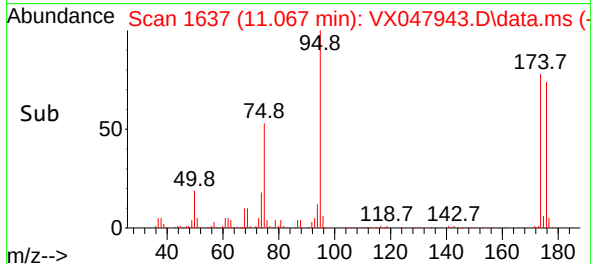
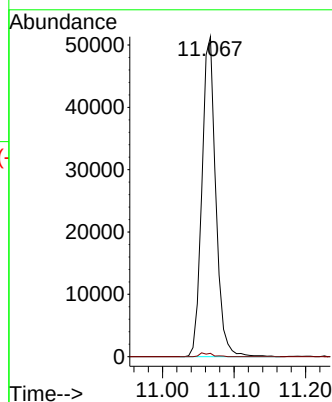
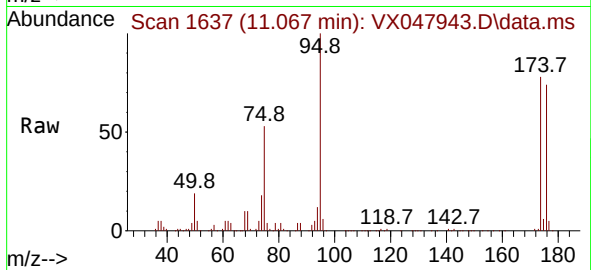




#76  
1,2,3-Trichloropropane  
Concen: 24.451 ug/l  
RT: 11.067 min Scan# 1637  
Delta R.T. -0.153 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT189D1-20250922

Tgt Ion: 75 Resp: 69153  
Ion Ratio Lower Upper  
75 100  
77 1.1 18.8 56.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.353 ug/l  
RT: 11.067 min Scan# 1637  
Delta R.T. 0.067 min  
Lab File: VX047943.D  
Acq: 01 Oct 2025 16:11

Tgt Ion: 75 Resp: 69153  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.4 125.2#  
89 0.0 36.3 54.5#

