

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111125\  
 Data File : VY023738.D  
 Acq On : 11 Nov 2025 14:27  
 Operator : SY/MD  
 Sample : Q3581-01  
 Misc : 3.59g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VNJ-238

Quant Time: Nov 12 03:37:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 08 05:12:50 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.720  | 168  | 882712   | 50.000 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 8.622  | 114  | 1511239  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 1292114  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 531992   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 389916   | 52.824   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 105.640% |
| 35) Dibromofluoromethane    | 7.640  | 113   | 471909   | 50.820   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 101.640% |
| 50) Toluene-d8              | 10.109 | 98    | 1694592  | 49.003   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 98.000%  |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 510537   | 44.717   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 89.440%  |

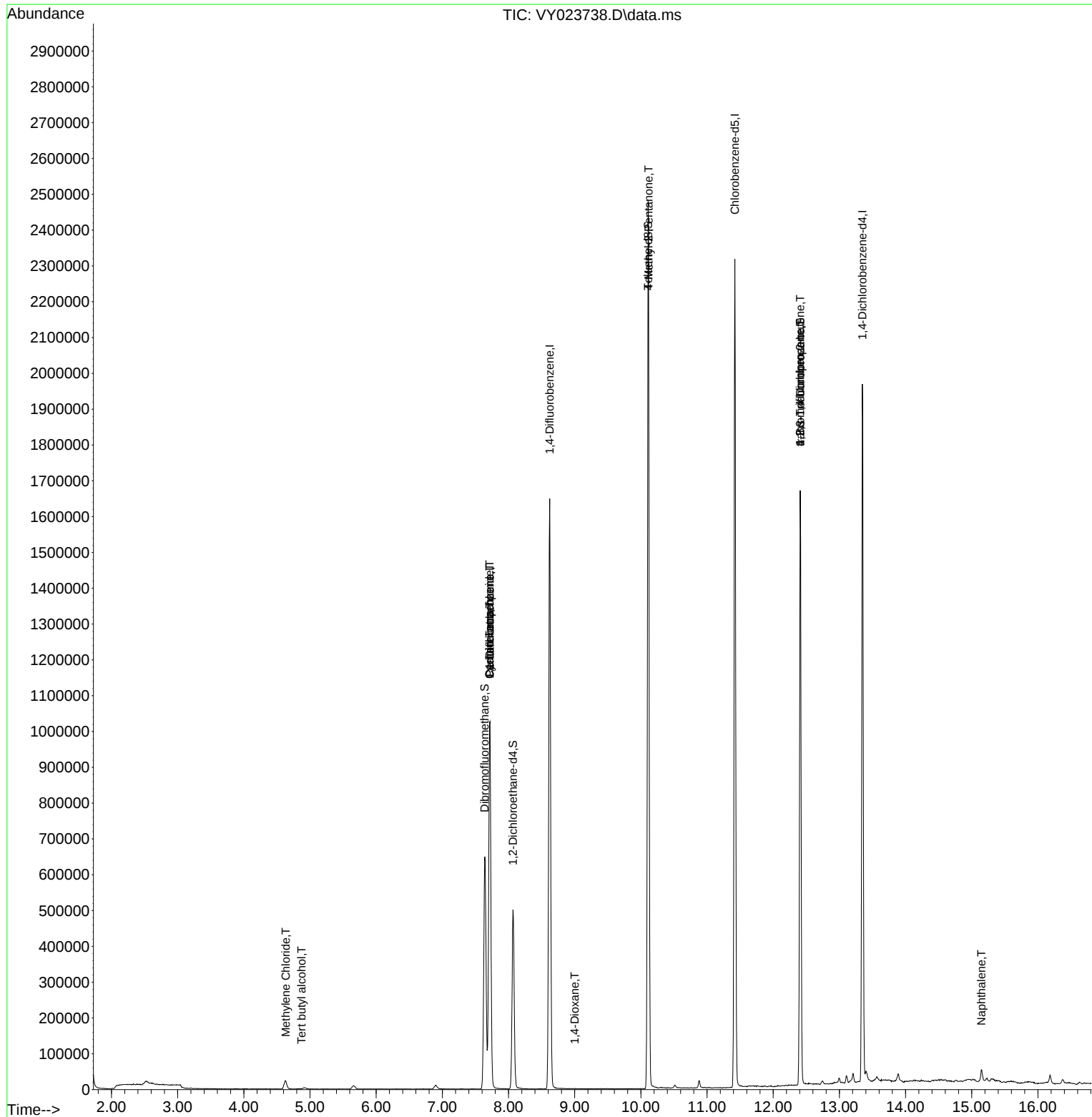
| Target Compounds              |        |     |        |         | Qvalue |     |
|-------------------------------|--------|-----|--------|---------|--------|-----|
| 11) Tert butyl alcohol        | 4.872  | 59  | 577    | 1.051   | ug/l # | 91  |
| 20) Methylene Chloride        | 4.635  | 84  | 18401  | 1.936   | ug/l   | 87  |
| 31) Cyclohexane               | 7.713  | 56  | 13948  | 1.136   | ug/l # | 1   |
| 36) 1,1-Dichloropropene       | 7.713  | 75  | 56401  | 4.588   | ug/l # | 48  |
| 38) Carbon Tetrachloride      | 7.713  | 117 | 79061  | 5.304   | ug/l # | 16  |
| 49) 1,4-Dioxane               | 9.000  | 88  | 99     | 1.570   | ug/l # | 1   |
| 51) 4-Methyl-2-Pentanone      | 10.115 | 43  | 6116   | 1.219   | ug/l # | 1   |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75  | 246002 | 52.412  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75  | 246002 | 128.525 | ug/l # | 14  |
| 95) Naphthalene               | 15.145 | 128 | 24723  | 1.565   | ug/l # | 95  |

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

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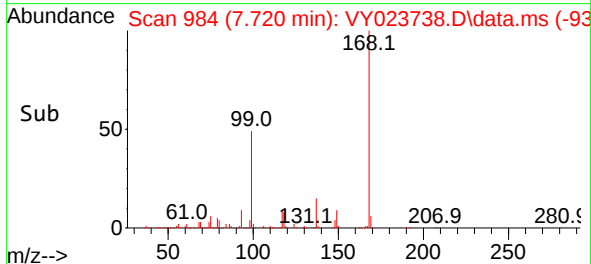
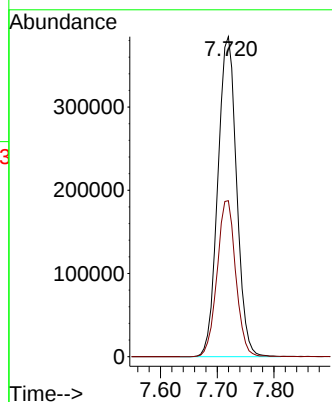
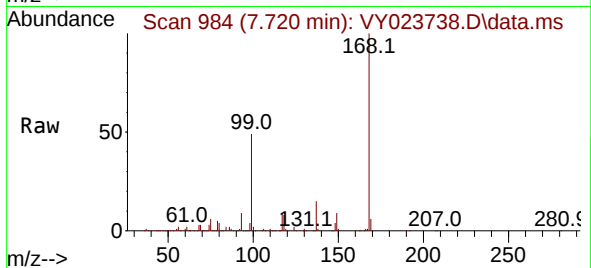




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.720 min Scan# 91  
Delta R.T. 0.013 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

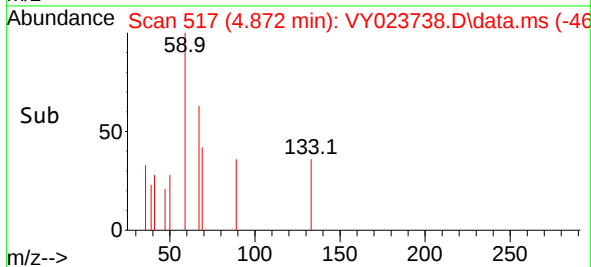
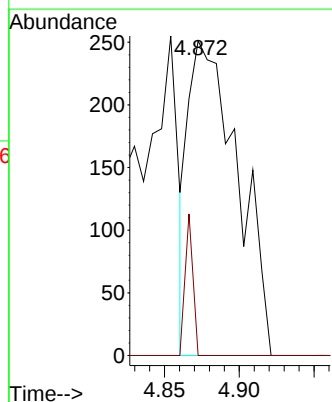
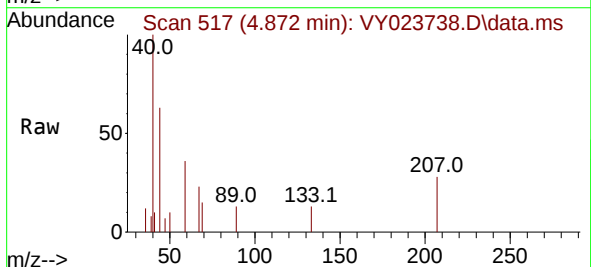
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-238

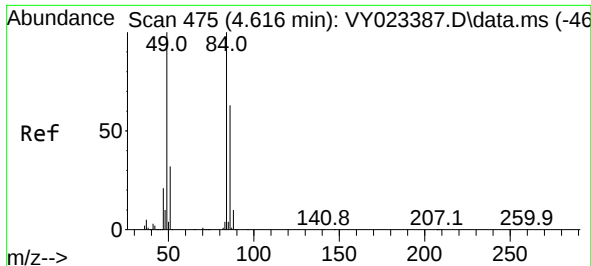
Tgt Ion:168 Resp: 882712  
Ion Ratio Lower Upper  
168 100  
99 48.8 39.7 59.5



#11  
Tert butyl alcohol  
Concen: 1.051 ug/l  
RT: 4.872 min Scan# 517  
Delta R.T. 0.012 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

Tgt Ion: 59 Resp: 577  
Ion Ratio Lower Upper  
59 100  
57 7.1 8.3 12.5#

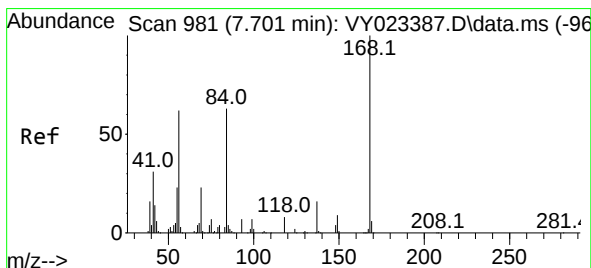
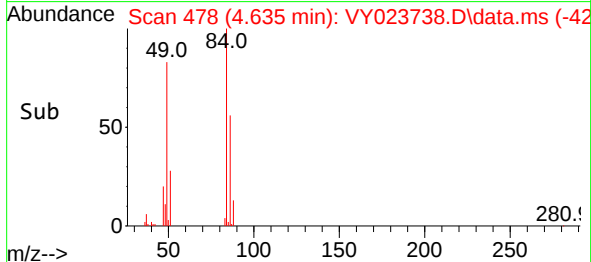
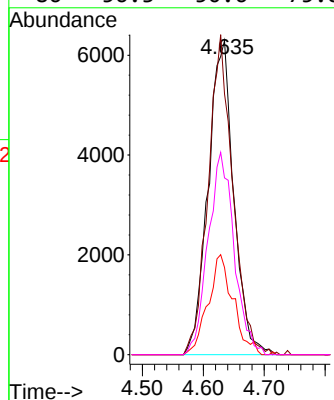
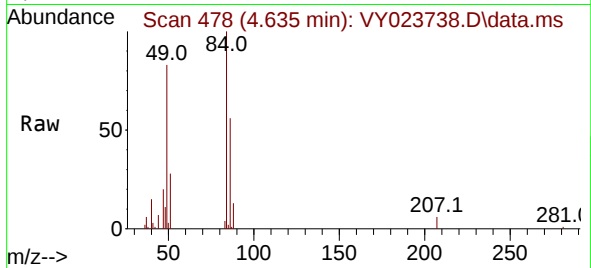




#20  
Methylene Chloride  
Concen: 1.936 ug/l  
RT: 4.635 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

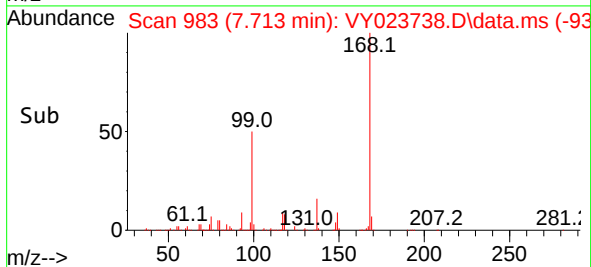
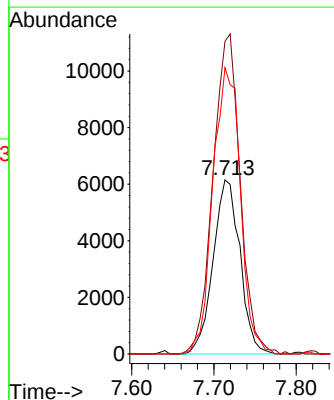
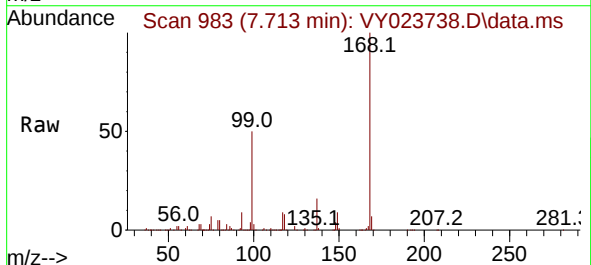
Instrument :  
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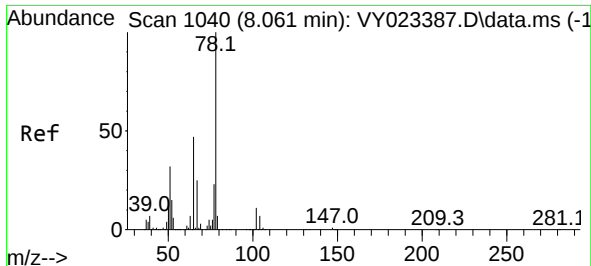
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 18401 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 83.0  | 80.2  | 120.4 |
| 51       | 27.8  | 25.9  | 38.9  |
| 86       | 56.3  | 50.6  | 75.8  |



#31  
Cyclohexane  
Concen: 1.136 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. 0.012 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 13948  |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 179.6 | 30.0  | 45.0#  |
| 84       | 164.4 | 81.2  | 121.8# |





#33

1,2-Dichloroethane-d4

Concen: 52.824 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY023738.D

Acq: 11 Nov 2025 14:27

Instrument :

MSVOA\_Y

ClientSampleId :

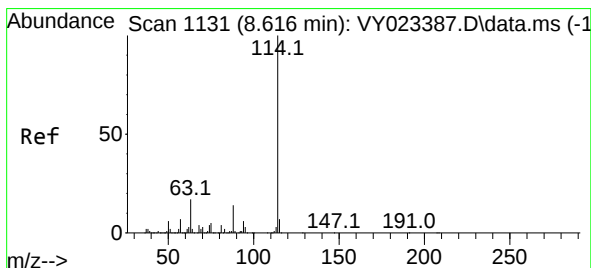
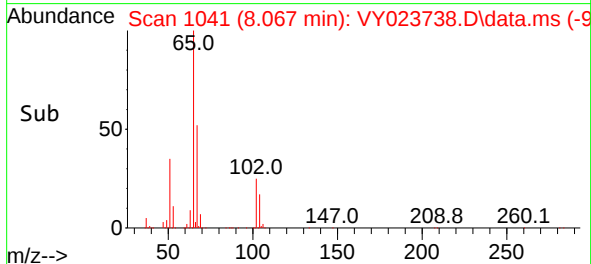
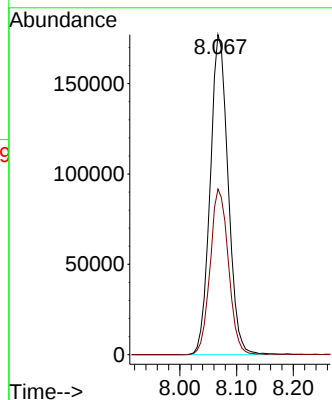
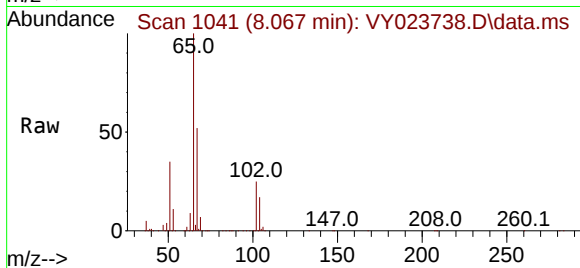
VNJ-238

Tgt Ion: 65 Resp: 389916

Ion Ratio Lower Upper

65 100

67 52.7 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY023738.D

Acq: 11 Nov 2025 14:27

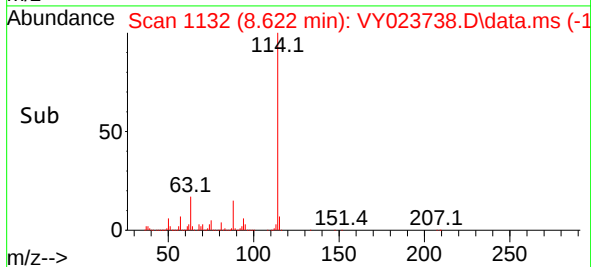
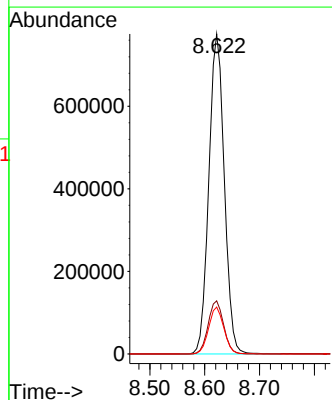
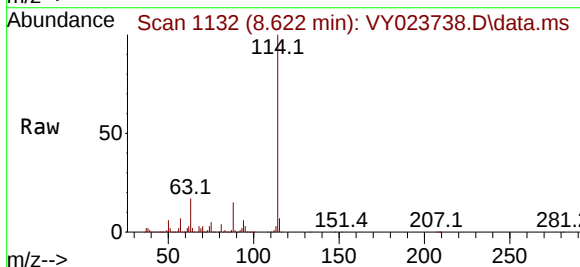
Tgt Ion: 114 Resp: 1511239

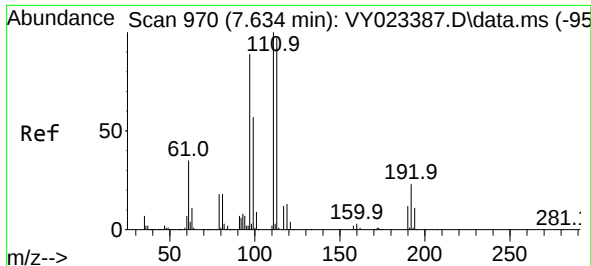
Ion Ratio Lower Upper

114 100

63 16.6 0.0 34.2

88 14.7 0.0 28.4

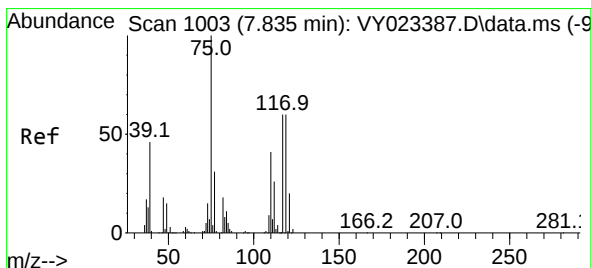
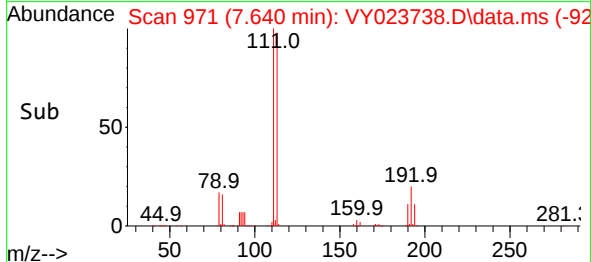
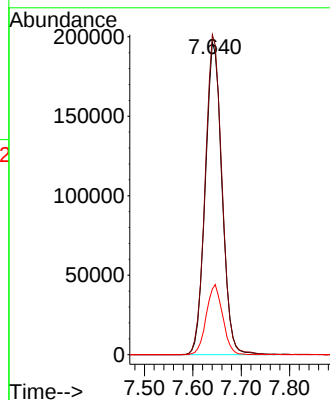
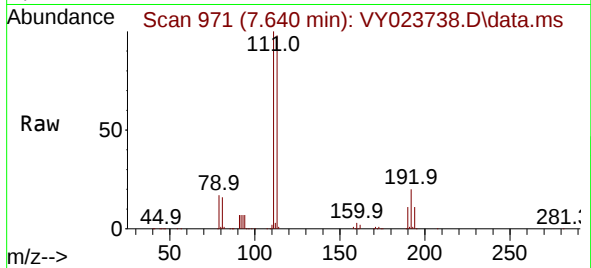




#35  
Dibromofluoromethane  
Concen: 50.820 ug/l  
RT: 7.640 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

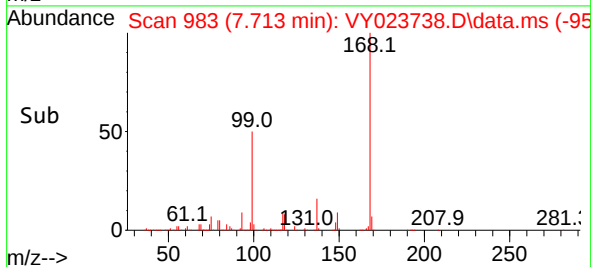
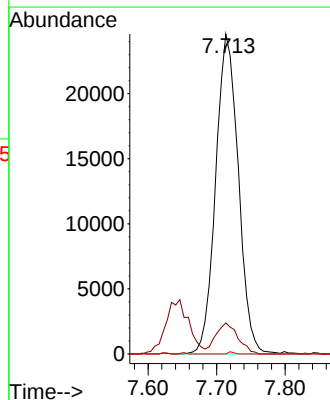
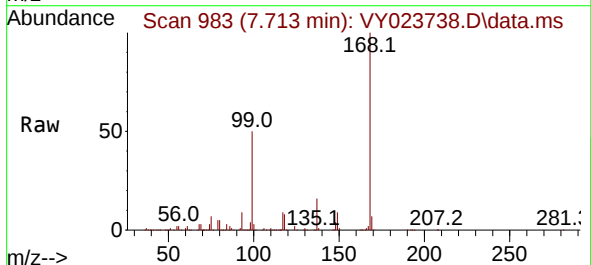
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-238

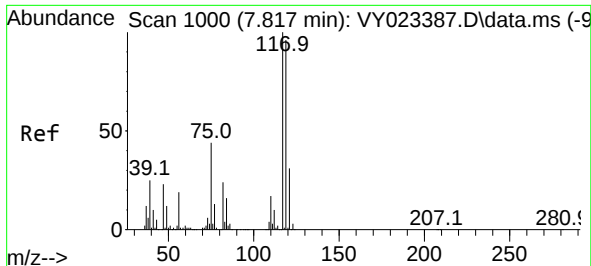
Tgt Ion:113 Resp: 471909  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.8 122.6  
192 22.0 18.0 27.0



#36  
1,1-Dichloropropene  
Concen: 4.588 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. -0.122 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

Tgt Ion: 75 Resp: 56401  
Ion Ratio Lower Upper  
75 100  
110 9.5 19.9 59.7#  
77 0.2 25.0 37.6#

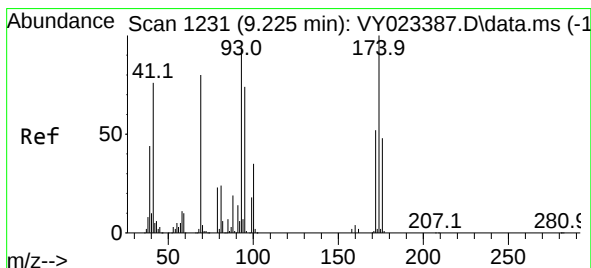
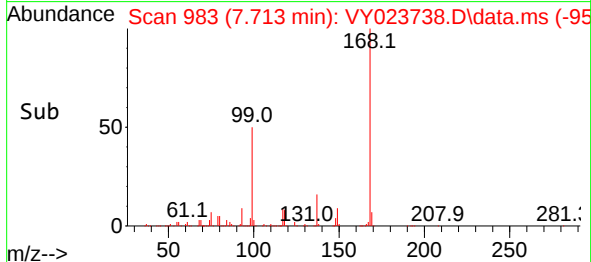
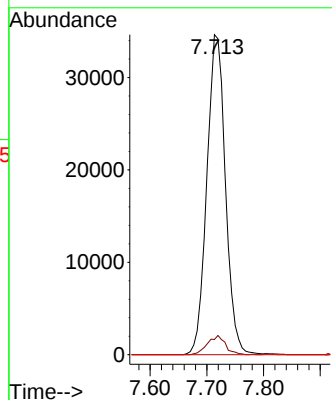
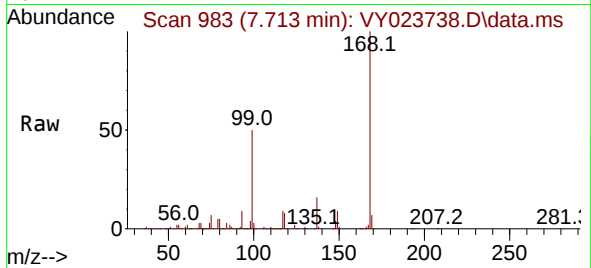




#38  
Carbon Tetrachloride  
Concen: 5.304 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. -0.104 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

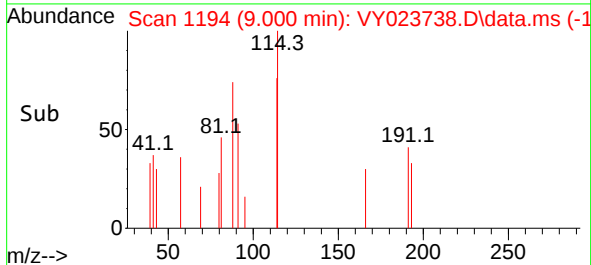
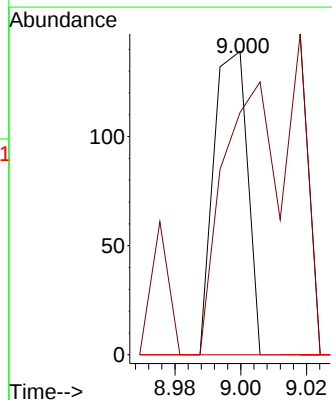
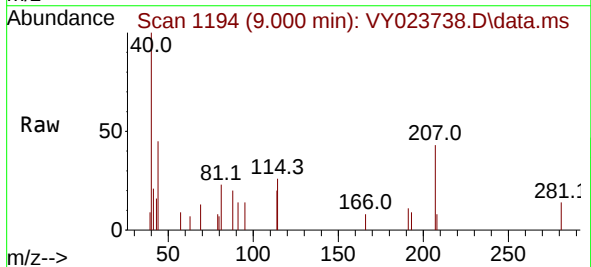
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-238

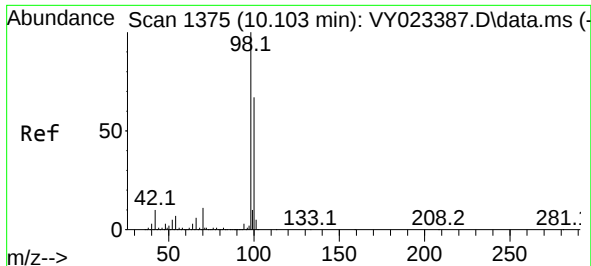
Tgt Ion:117 Resp: 79061  
Ion Ratio Lower Upper  
117 100  
119 4.8 76.8 115.2#  
121 0.0 24.5 36.7#



#49  
1,4-Dioxane  
Concen: 1.570 ug/l  
RT: 9.000 min Scan# 1194  
Delta R.T. -0.226 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

Tgt Ion: 88 Resp: 99  
Ion Ratio Lower Upper  
88 100  
43 196.0 21.8 32.8#  
58 0.0 46.8 70.2#

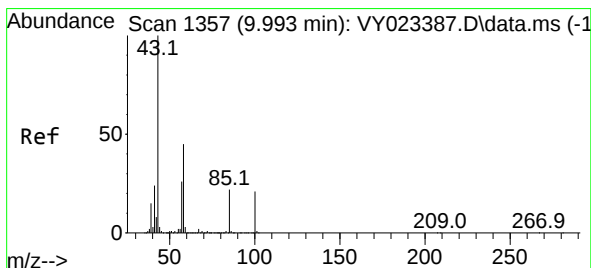
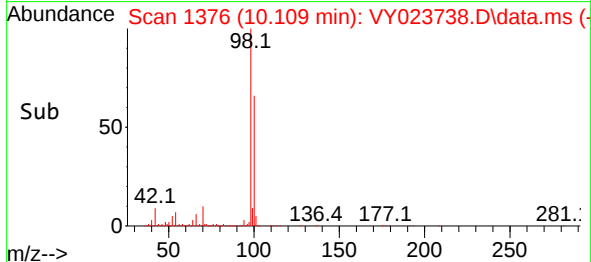
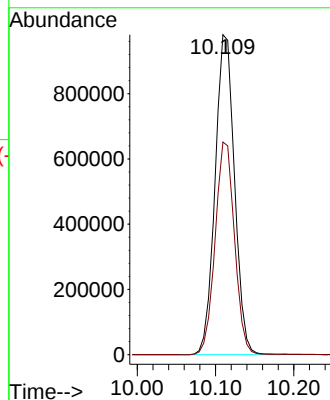
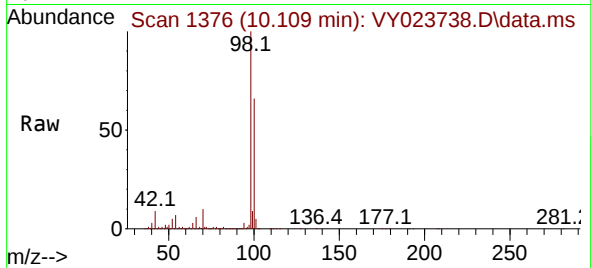




#50  
Toluene-d8  
Concen: 49.003 ug/l  
RT: 10.109 min Scan# 1375  
Delta R.T. 0.006 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

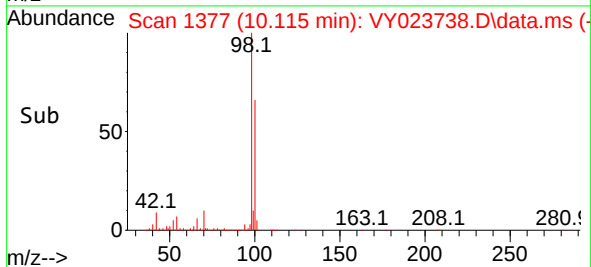
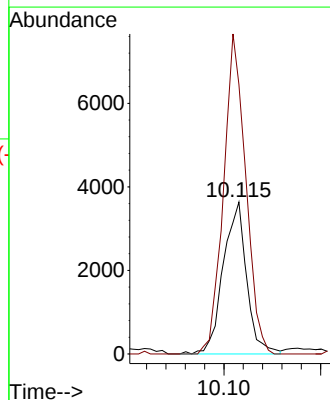
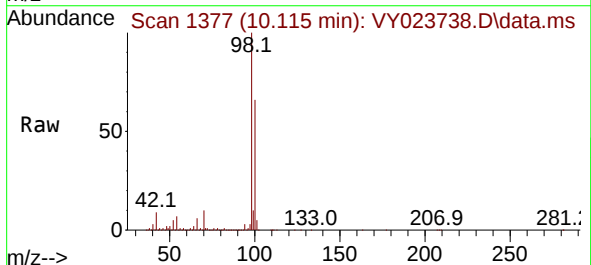
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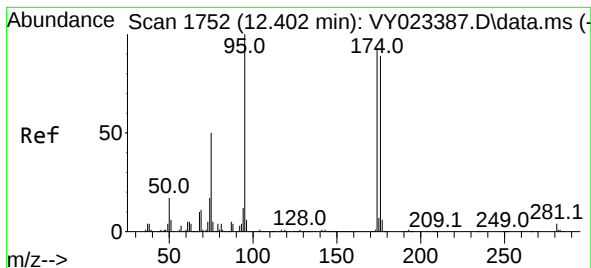
Tgt Ion: 98 Resp: 1694592  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.0 79.4



#51  
4-Methyl-2-Pentanone  
Concen: 1.219 ug/l  
RT: 10.115 min Scan# 1377  
Delta R.T. 0.122 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

Tgt Ion: 43 Resp: 6116  
Ion Ratio Lower Upper  
43 100  
58 199.5 35.3 52.9#

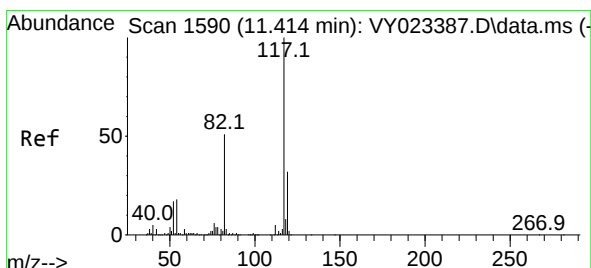
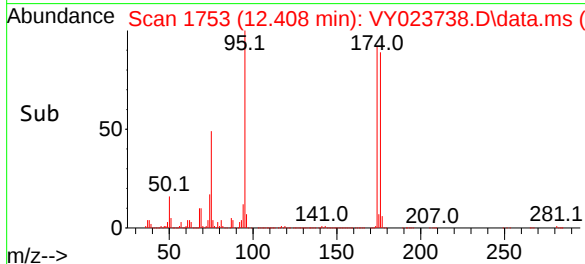
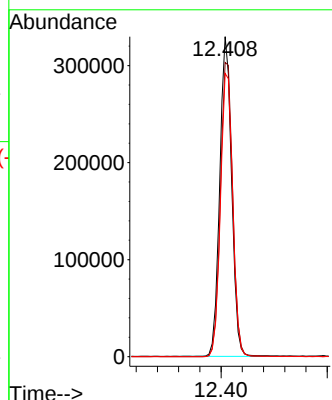
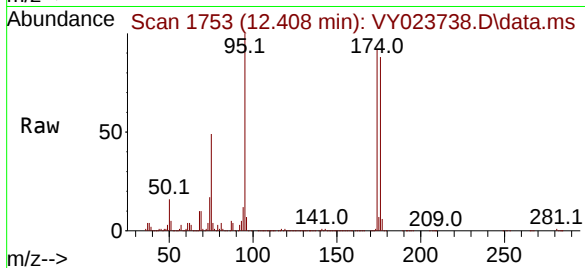




#62  
4-Bromofluorobenzene  
Concen: 44.717 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

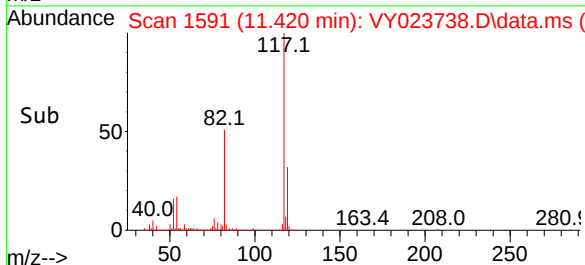
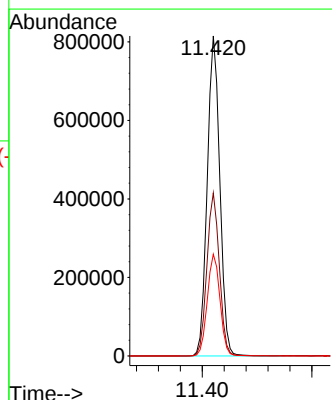
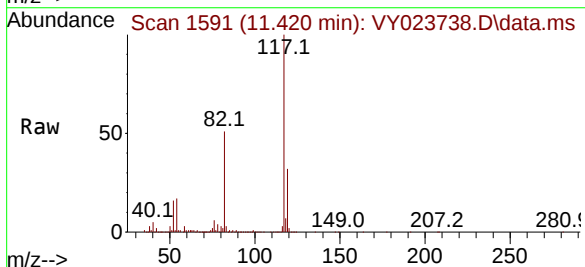
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-238

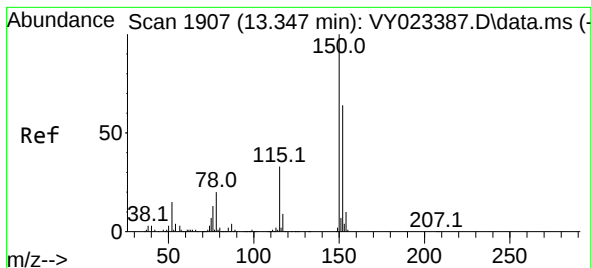
Tgt Ion: 95 Resp: 510537  
Ion Ratio Lower Upper  
95 100  
174 95.6 0.0 192.8  
176 91.6 0.0 187.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

Tgt Ion: 117 Resp: 1292114  
Ion Ratio Lower Upper  
117 100  
82 50.9 41.0 61.4  
119 31.8 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023738.D

Acq: 11 Nov 2025 14:27

Instrument :

MSVOA\_Y

ClientSampleId :

VNJ-238

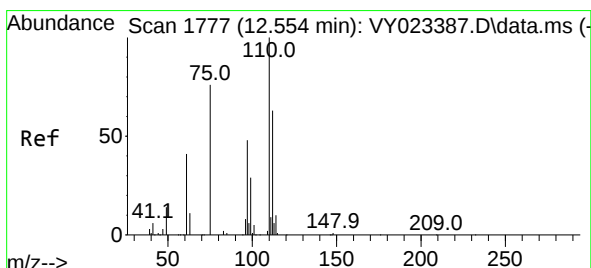
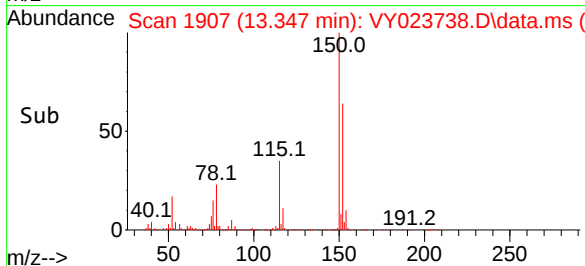
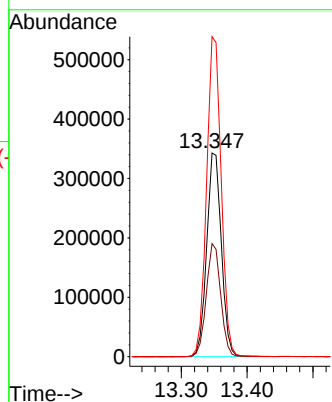
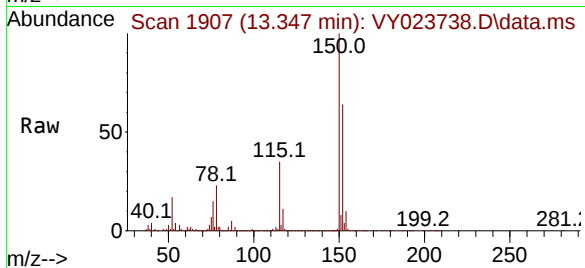
Tgt Ion:152 Resp: 531992

Ion Ratio Lower Upper

152 100

115 54.5 27.1 81.2

150 156.2 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 52.412 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023738.D

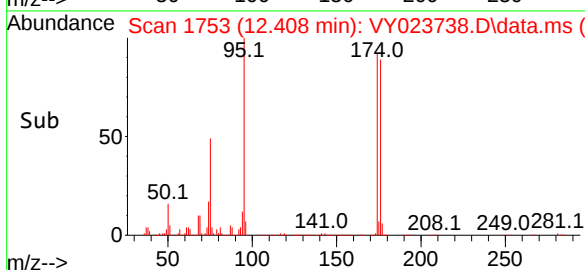
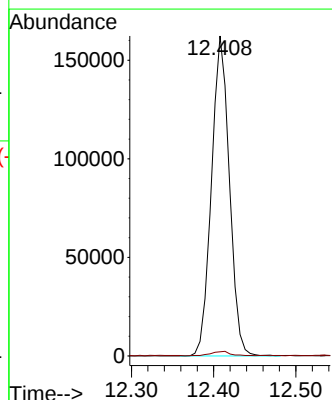
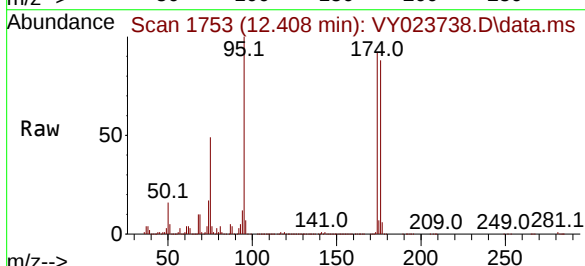
Acq: 11 Nov 2025 14:27

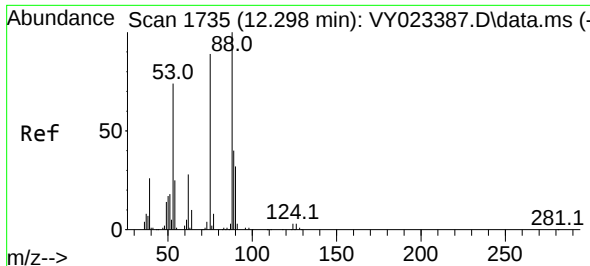
Tgt Ion: 75 Resp: 246002

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

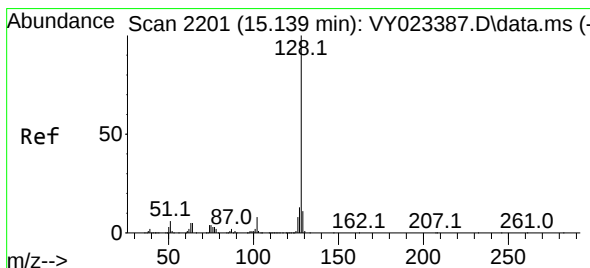
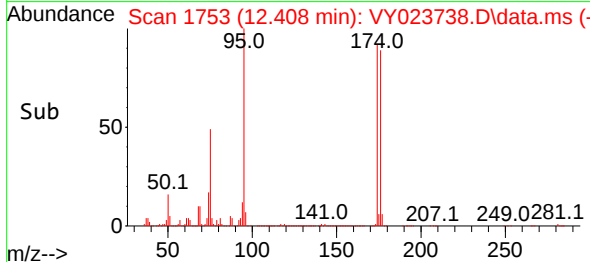
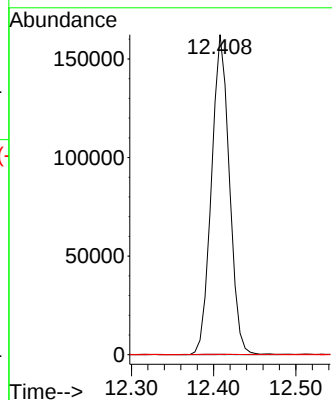
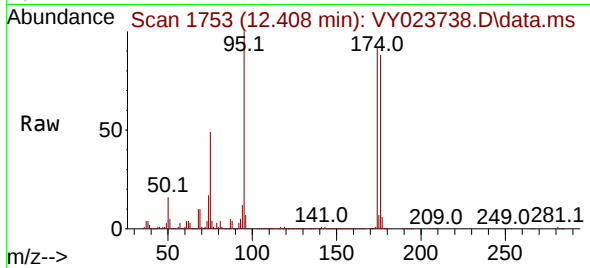




#81  
trans-1,4-Dichloro-2-butene  
Concen: 128.525 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.110 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VNJ-238

Tgt Ion: 75 Resp: 246002  
Ion Ratio Lower Upper  
75 100  
53 0.0 68.6 102.8#  
89 0.1 39.0 58.4#



#95  
Naphthalene  
Concen: 1.565 ug/l  
RT: 15.145 min Scan# 2202  
Delta R.T. 0.006 min  
Lab File: VY023738.D  
Acq: 11 Nov 2025 14:27

Tgt Ion:128 Resp: 24723  
Ion Ratio Lower Upper  
128 100  
127 14.7 10.4 15.6  
129 13.6 8.9 13.3#

