

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020525\  
 Data File : VN085667.D  
 Acq On : 05 Feb 2025 10:22  
 Operator : JC\MD  
 Sample : VN0205MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 06 00:36:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011425W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 15 02:16:08 2025  
 Response via : Initial Calibration

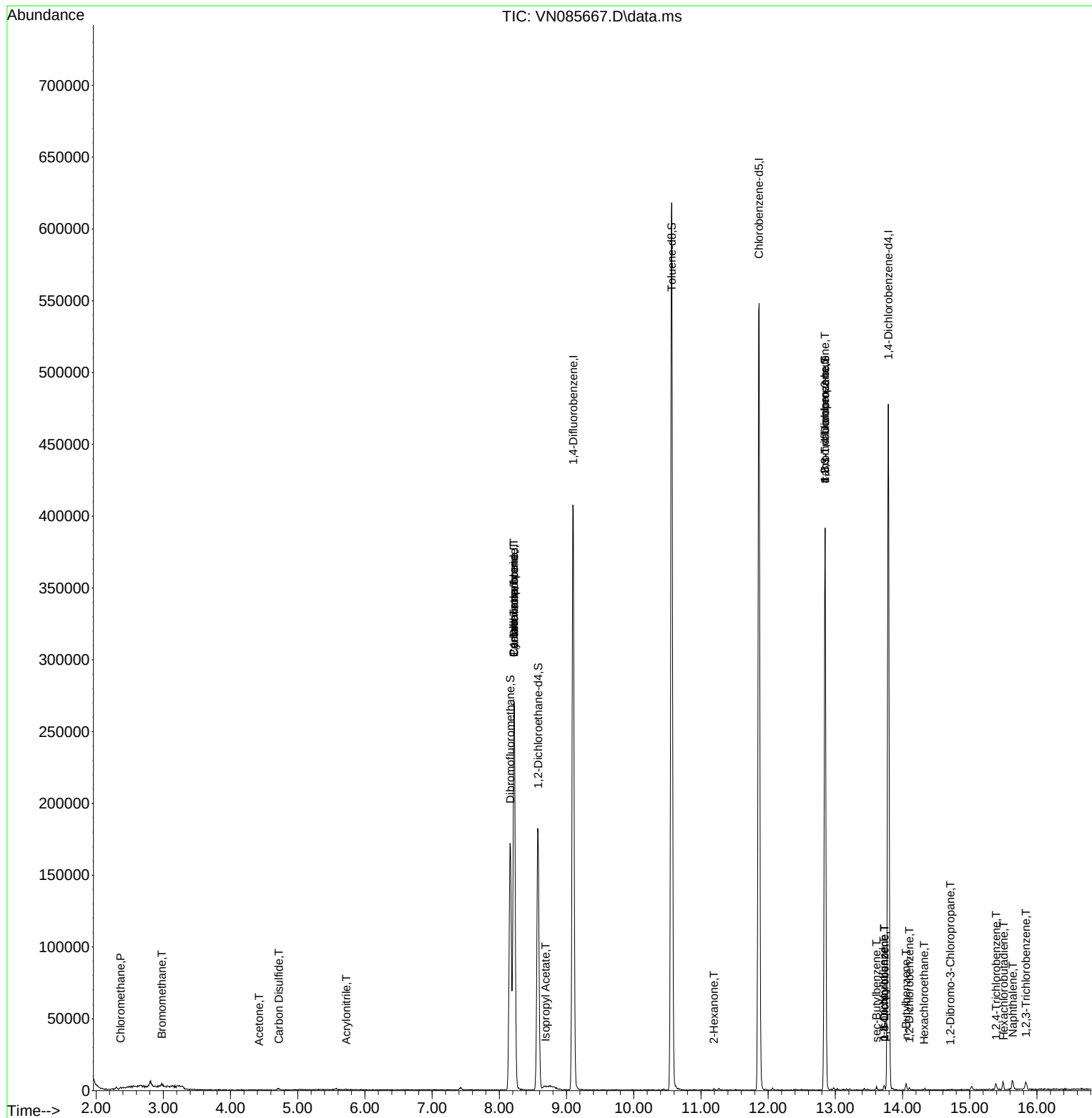
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 8.218          | 168  | 193569     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 360849     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 318676     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 128696     | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 146203     | 46.791  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 93.580% |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 124341     | 49.669  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 99.340% |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 441659     | 49.655  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 99.320% |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 127120     | 41.780  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 83.560% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 3) Chloromethane              | 2.365          | 50   | 675        | 0.238   | ug/l # | 41       |
| 5) Bromomethane               | 2.977          | 94   | 1165       | 0.676   | ug/l   | 99       |
| 15) Acrylonitrile             | 5.724          | 53   | 461        | 0.406   | ug/l # | 54       |
| 16) Acetone                   | 4.424          | 43   | 210        | 0.208   | ug/l # | 45       |
| 17) Carbon Disulfide          | 4.718          | 76   | 2766       | 0.432   | ug/l # | 76       |
| 31) Cyclohexane               | 8.218          | 56   | 4508       | 1.137   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.218          | 75   | 16042      | 4.566   | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.218          | 117  | 20629      | 5.129   | ug/l # | 18       |
| 43) Isopropyl Acetate         | 8.688          | 43   | 2892       | 0.509   | ug/l # | 55       |
| 59) 2-Hexanone                | 11.194         | 43   | 747        | 0.322   | ug/l # | 42       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 67663      | 25.867  | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 67663      | 69.986  | ug/l # | 3        |
| 85) sec-Butylbenzene          | 13.612         | 105  | 1866       | 0.223   | ug/l   | 83       |
| 86) p-Isopropyltoluene        | 13.718         | 119  | 1523       | 0.254   | ug/l   | 83       |
| 87) 1,3-Dichlorobenzene       | 13.729         | 146  | 880        | 0.211   | ug/l   | 82       |
| 88) 1,4-Dichlorobenzene       | 13.729         | 146  | 880        | 0.203   | ug/l   | 82       |
| 89) n-Butylbenzene            | 14.053         | 91   | 3085       | 0.515   | ug/l   | 96       |
| 90) Hexachloroethane          | 14.323         | 117  | 374        | 0.235   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 14.100         | 146  | 912        | 0.219   | ug/l   | 89       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.712         | 75   | 150        | 0.268   | ug/l # | 36       |
| 93) 1,2,4-Trichlorobenzene    | 15.394         | 180  | 1838       | 0.949   | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.506         | 225  | 1149       | 1.117   | ug/l   | 90       |
| 95) Naphthalene               | 15.641         | 128  | 7152       | 1.237   | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene    | 15.835         | 180  | 2546       | 1.299   | ug/l   | 92       |
| -----                         |                |      |            |         |        |          |

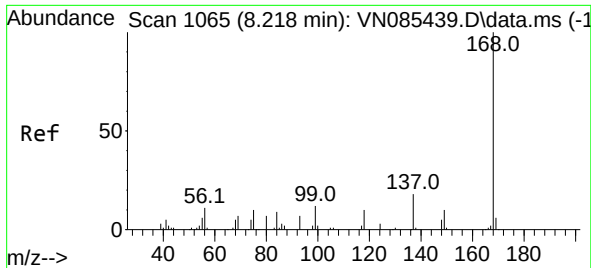
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jan 15 02:16:08 2025  
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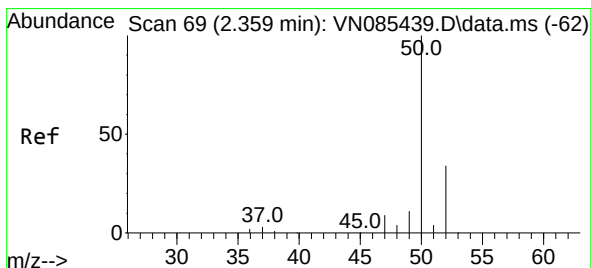
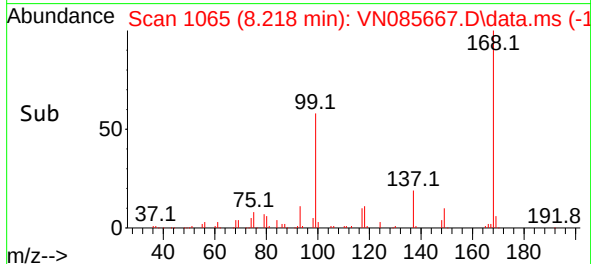
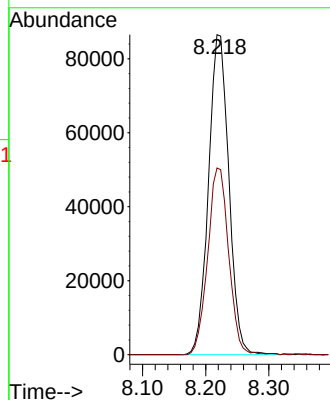
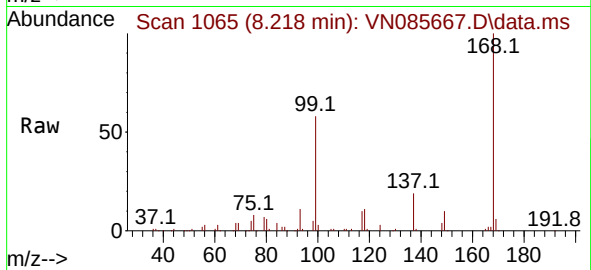




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.000 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

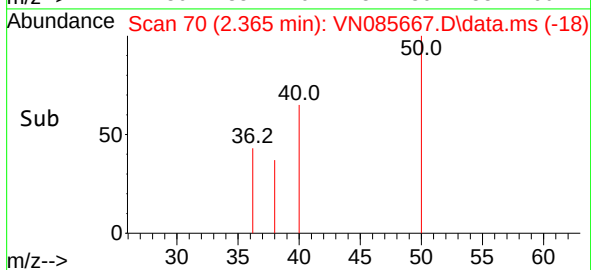
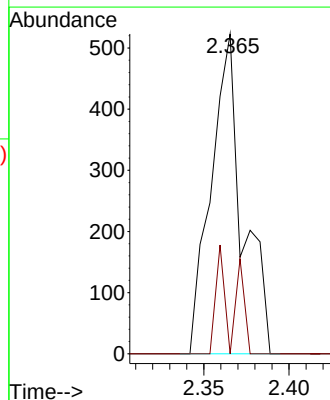
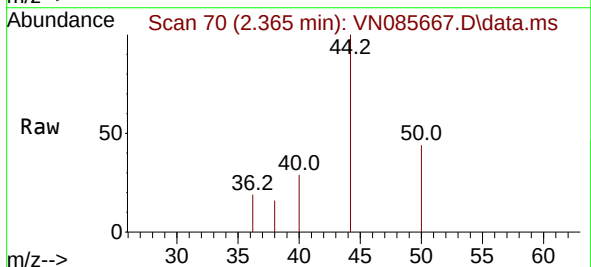
Instrument :  
MSVOA\_N  
ClientSampleId :

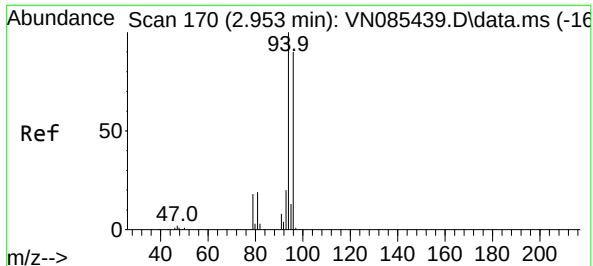
Tgt Ion:168 Resp: 193569  
Ion Ratio Lower Upper  
168 100  
99 58.3 53.6 80.4



#3  
Chloromethane  
Concen: 0.238 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Tgt Ion: 50 Resp: 675  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.0 40.6#

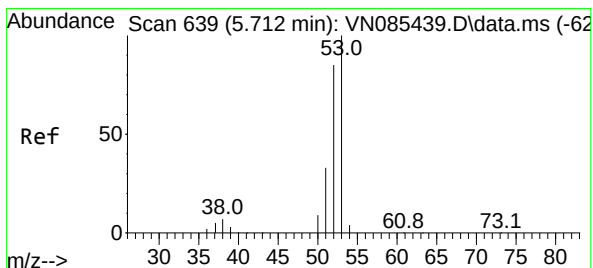
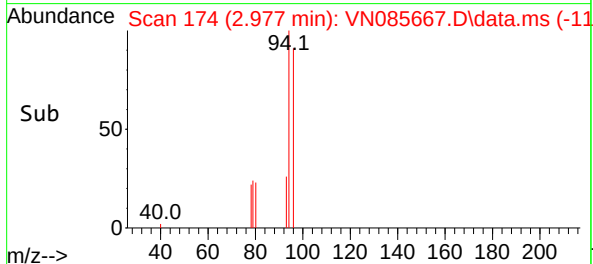
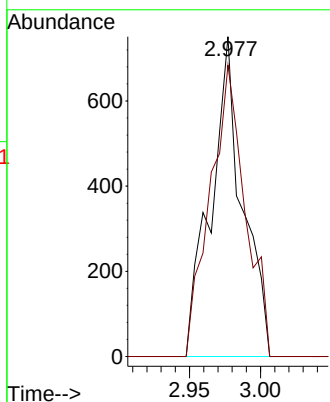
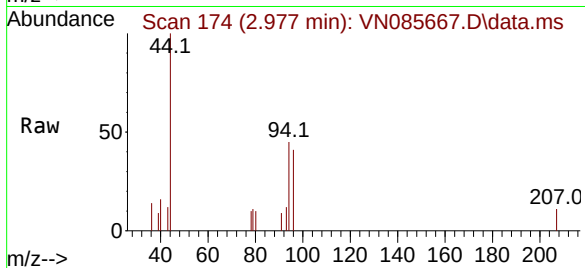




#5  
Bromomethane  
Concen: 0.676 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

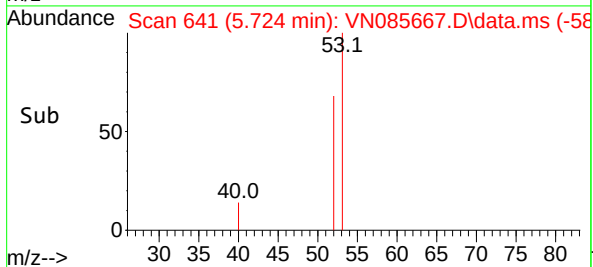
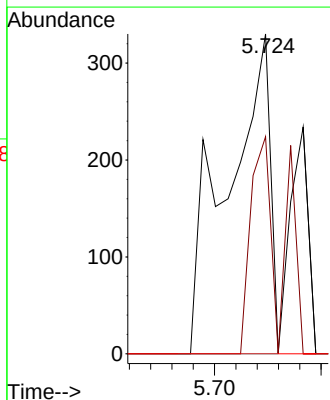
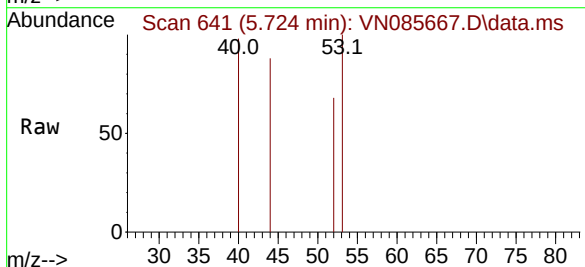
Instrument :  
MSVOA\_N  
ClientSampleId :

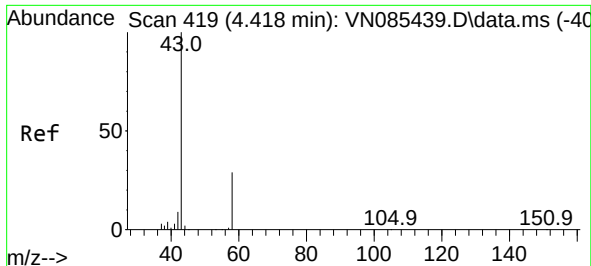
Tgt Ion: 94 Resp: 1165  
Ion Ratio Lower Upper  
94 100  
96 91.1 71.8 107.6



#15  
Acrylonitrile  
Concen: 0.406 ug/l  
RT: 5.724 min Scan# 641  
Delta R.T. 0.012 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Tgt Ion: 53 Resp: 461  
Ion Ratio Lower Upper  
53 100  
52 47.7 65.5 98.3#  
51 0.0 29.8 44.8#





#16

Acetone

Concen: 0.208 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

Instrument :

MSVOA\_N

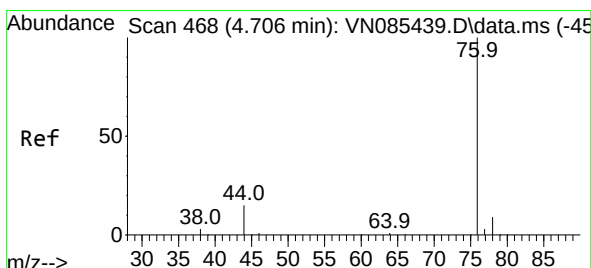
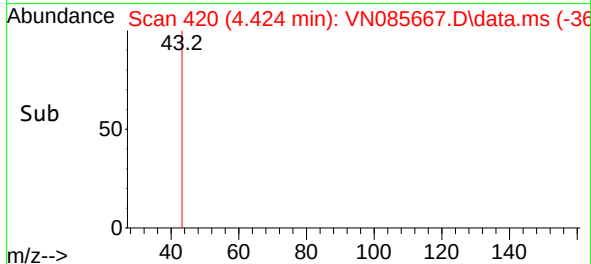
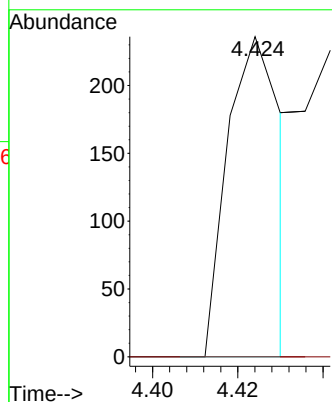
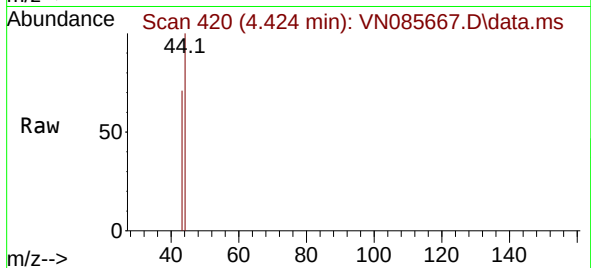
ClientSampleId :

Tgt Ion: 43 Resp: 210

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.6#



#17

Carbon Disulfide

Concen: 0.432 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.012 min

Lab File: VN085667.D

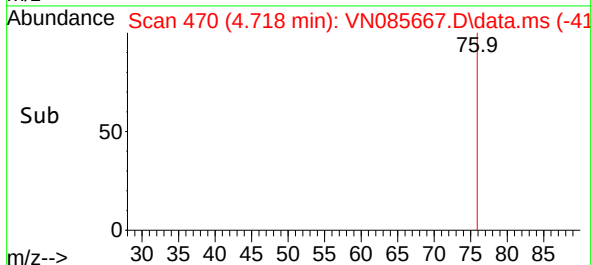
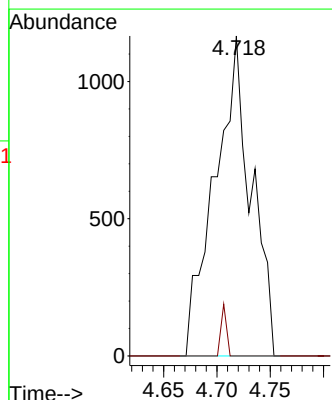
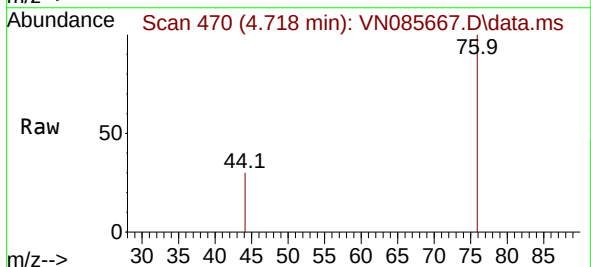
Acq: 05 Feb 2025 10:22

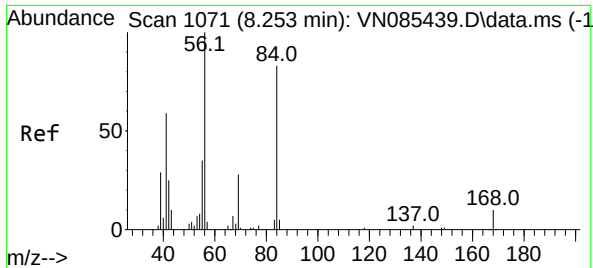
Tgt Ion: 76 Resp: 2766

Ion Ratio Lower Upper

76 100

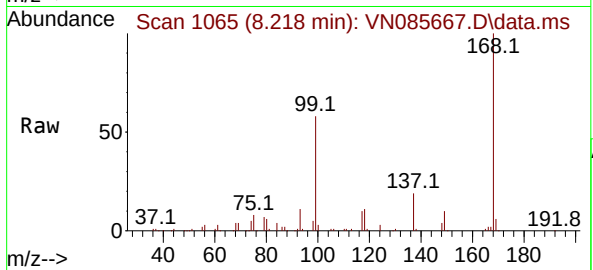
78 0.0 6.9 10.3#



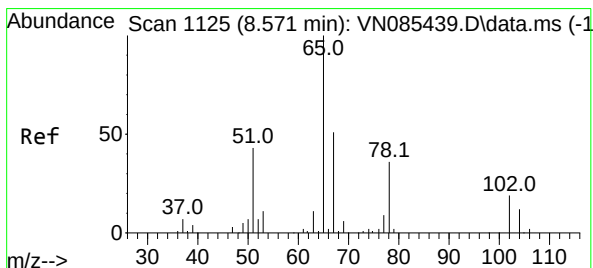
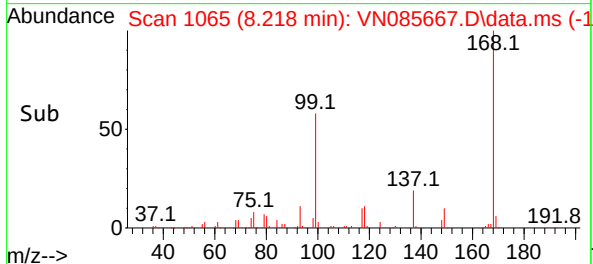
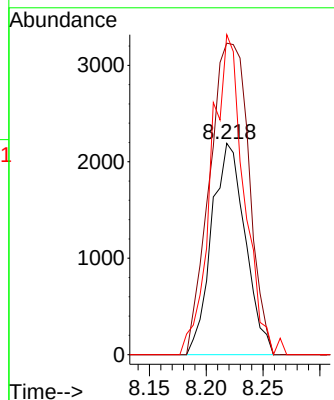


#31  
Cyclohexane  
Concen: 1.137 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Instrument :  
MSVOA\_N  
ClientSampleId :

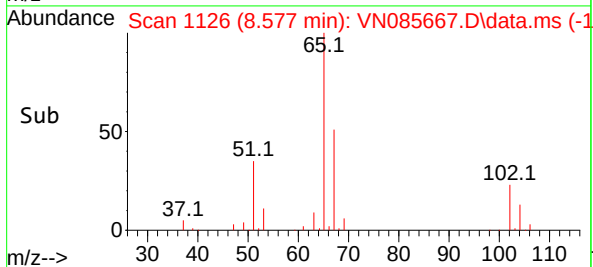
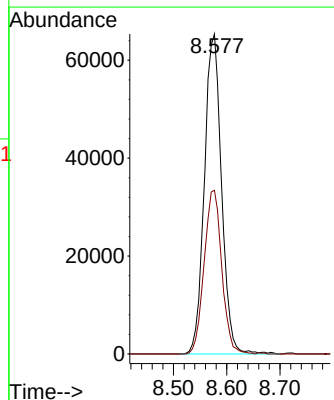
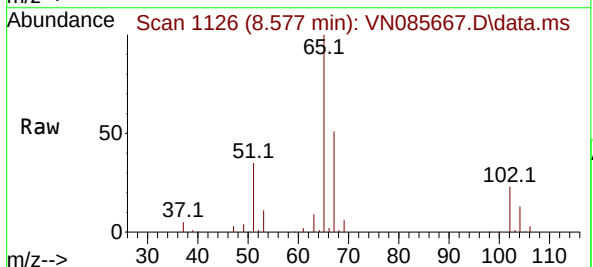


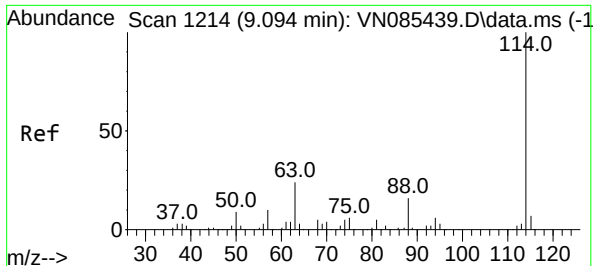
Tgt Ion: 56 Resp: 4508  
Ion Ratio Lower Upper  
56 100  
69 147.4 22.2 33.4#  
84 151.4 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 46.791 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.006 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Tgt Ion: 65 Resp: 146203  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

Instrument :

MSVOA\_N

ClientSampleId :

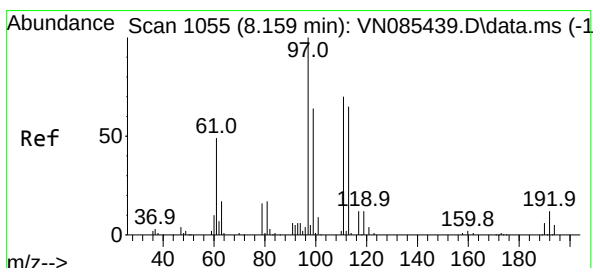
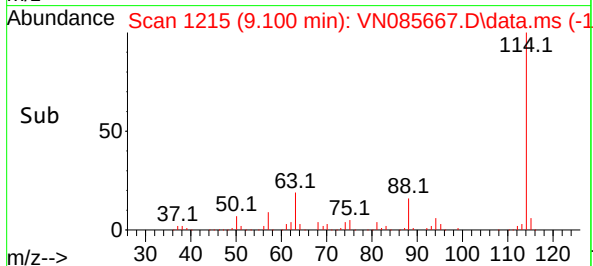
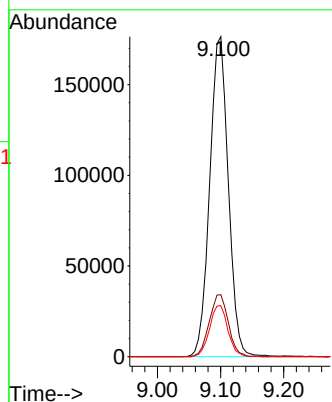
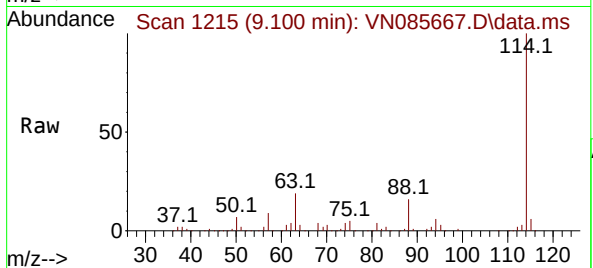
Tgt Ion:114 Resp: 360849

Ion Ratio Lower Upper

114 100

63 19.3 0.0 47.6

88 15.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.669 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

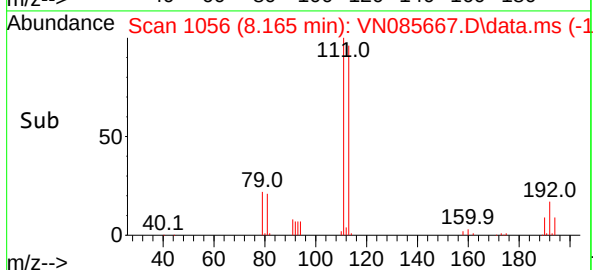
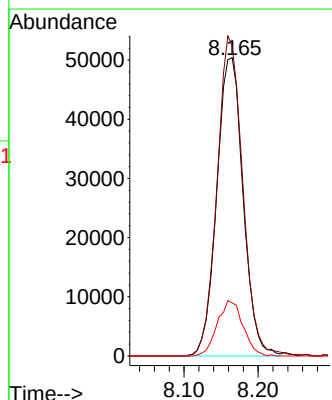
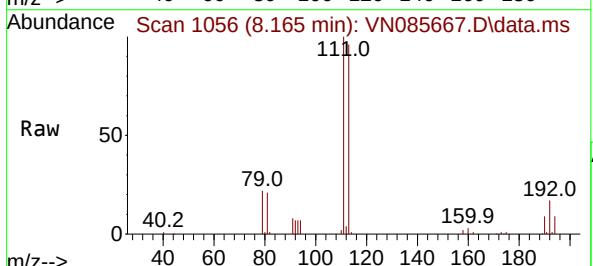
Tgt Ion:113 Resp: 124341

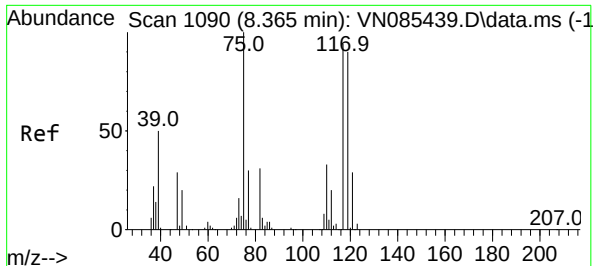
Ion Ratio Lower Upper

113 100

111 104.7 82.7 124.1

192 18.1 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.566 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085667.D

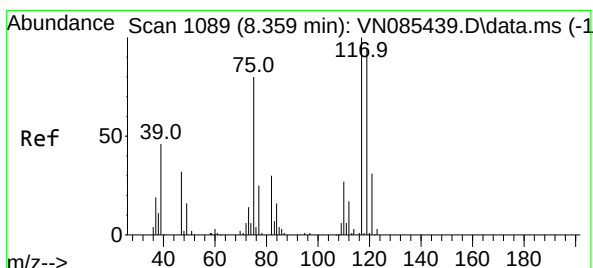
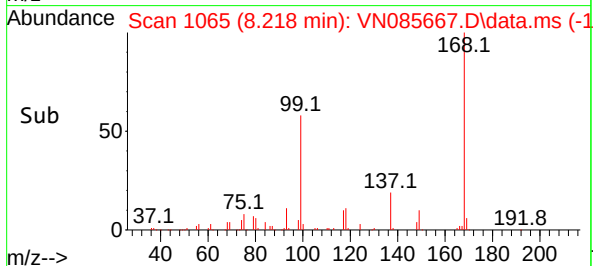
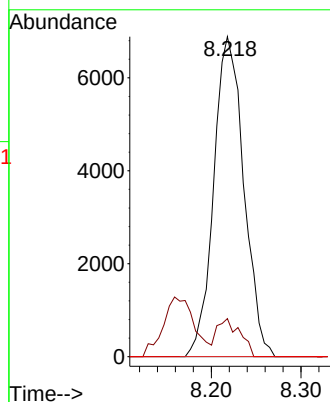
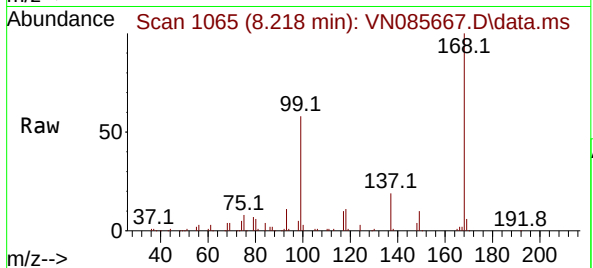
Acq: 05 Feb 2025 10:22

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 16042 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.0   | 16.5  | 49.5# |
| 77       | 0.0   | 24.4  | 36.6# |



#38

Carbon Tetrachloride

Concen: 5.129 ug/l

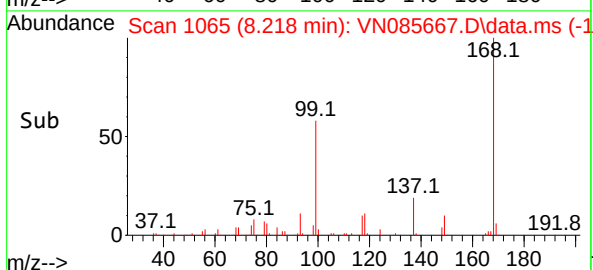
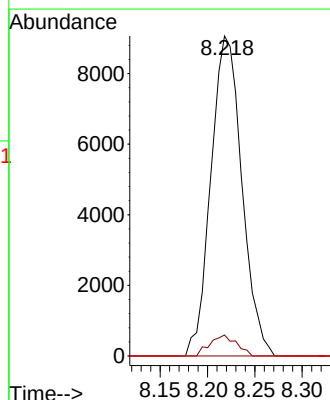
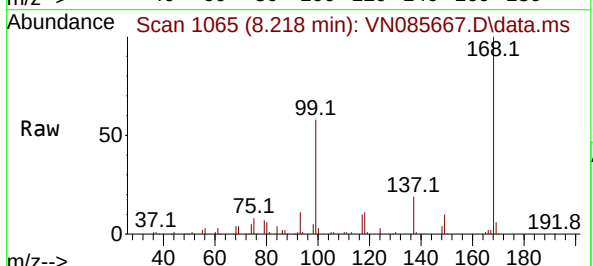
RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

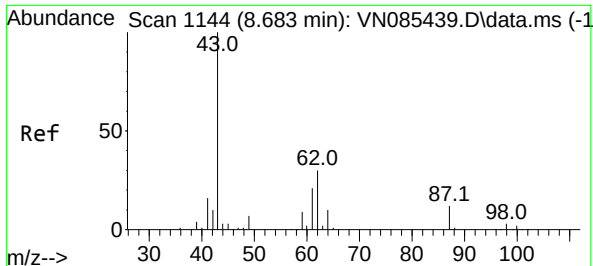
Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 20629  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.6   | 75.4  | 113.2# |
| 121      | 0.0   | 24.6  | 37.0#  |







#43

Isopropyl Acetate

Concen: 0.509 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

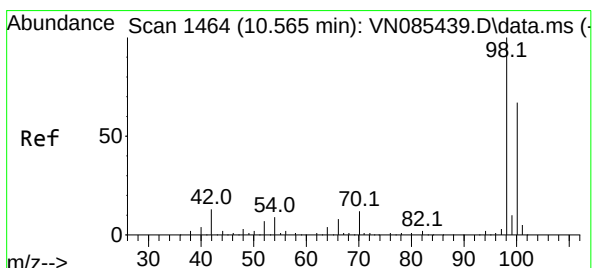
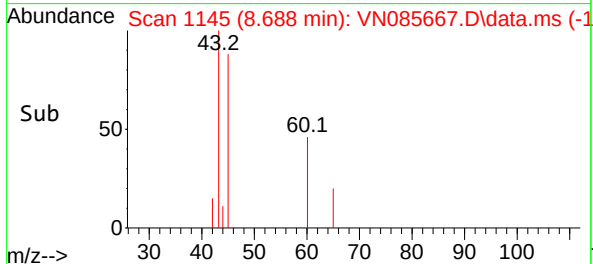
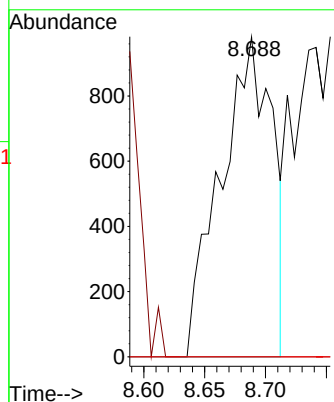
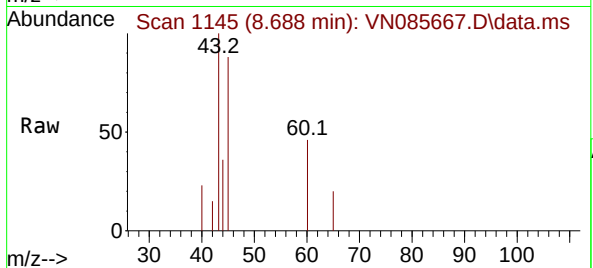
Instrument :

MSVOA\_N

ClientSampleId :

Tgt Ion: 43 Resp: 2892

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 0.0   | 20.7  | 31.1# |
| 87  | 0.0   | 9.8   | 14.8# |



#50

Toluene-d8

Concen: 49.655 ug/l

RT: 10.565 min Scan# 1464

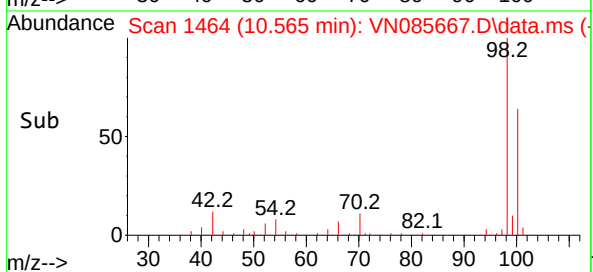
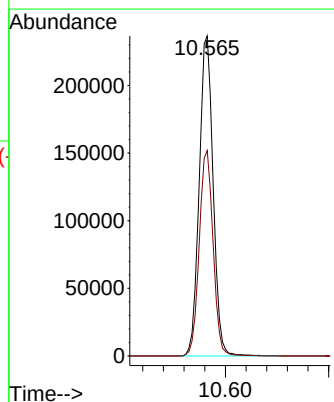
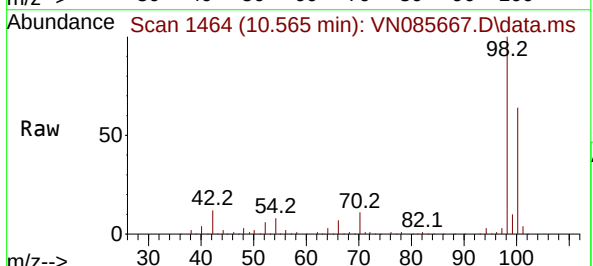
Delta R.T. 0.000 min

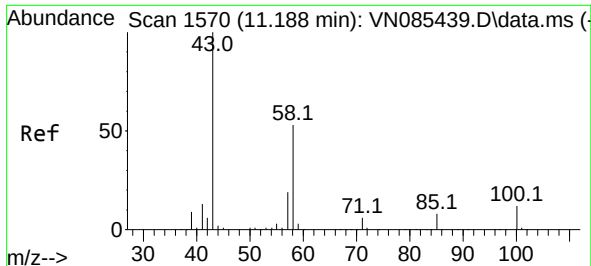
Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

Tgt Ion: 98 Resp: 441659

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 63.9  | 52.2  | 78.4  |

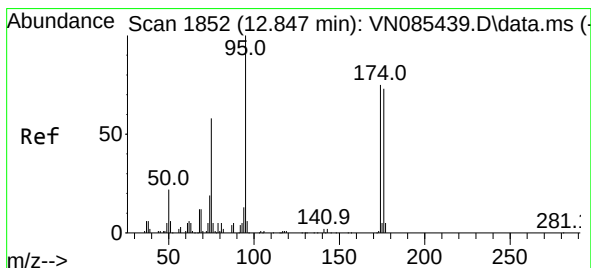
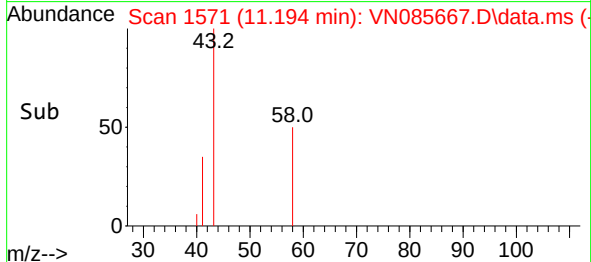
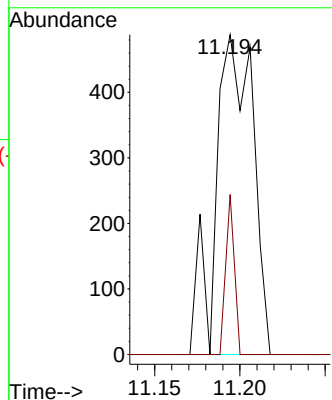
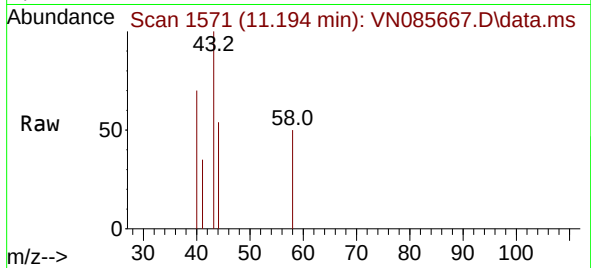




#59  
2-Hexanone  
Concen: 0.322 ug/l  
RT: 11.194 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

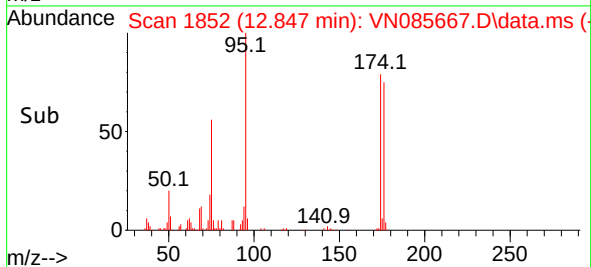
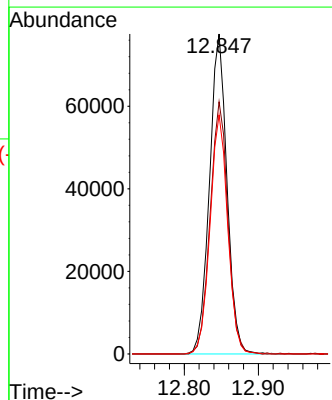
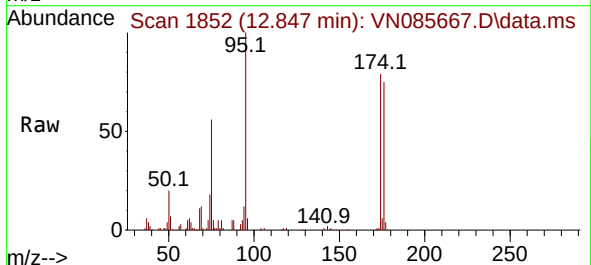
Instrument :  
MSVOA\_N  
ClientSampleId :

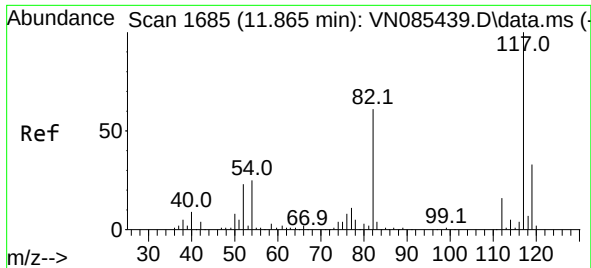
Tgt Ion: 43 Resp: 747  
Ion Ratio Lower Upper  
43 100  
58 11.5 26.2 78.6#



#62  
4-Bromofluorobenzene  
Concen: 41.780 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Tgt Ion: 95 Resp: 127120  
Ion Ratio Lower Upper  
95 100  
174 79.9 0.0 145.0  
176 75.3 0.0 142.4

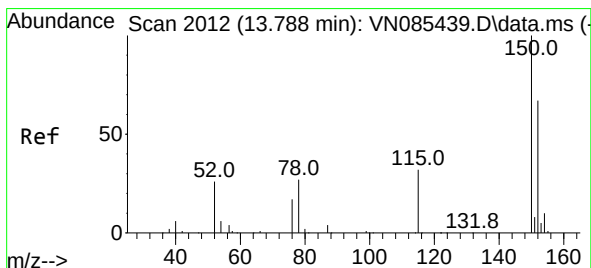
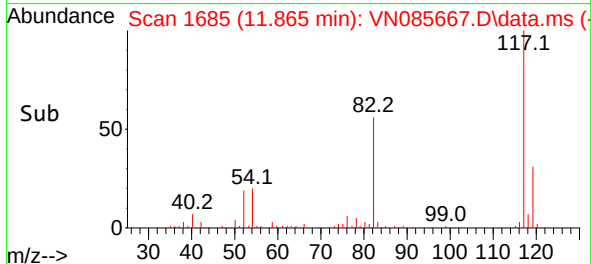
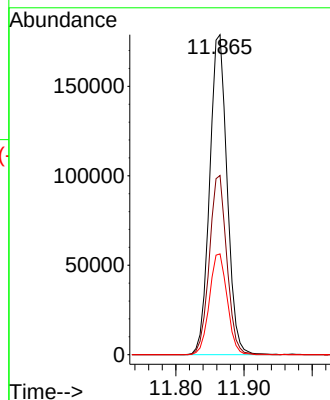
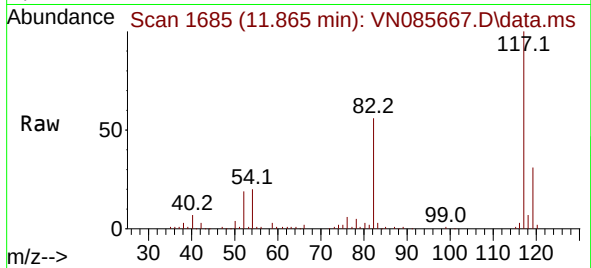




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

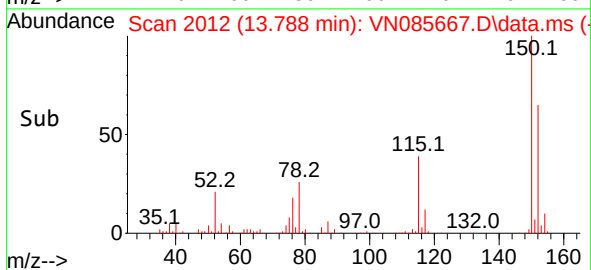
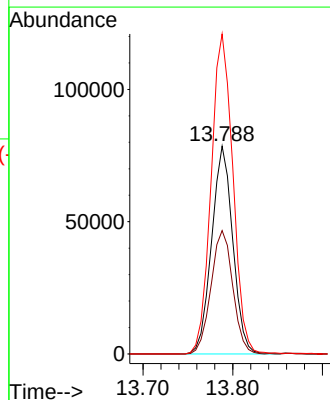
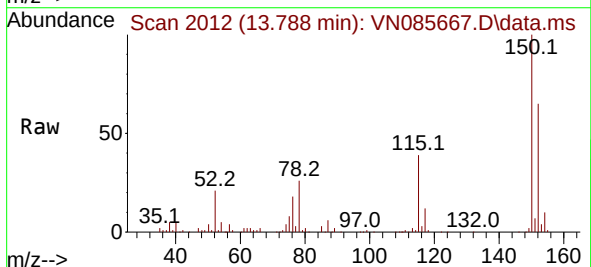
Instrument :  
MSVOA\_N  
ClientSampleId :

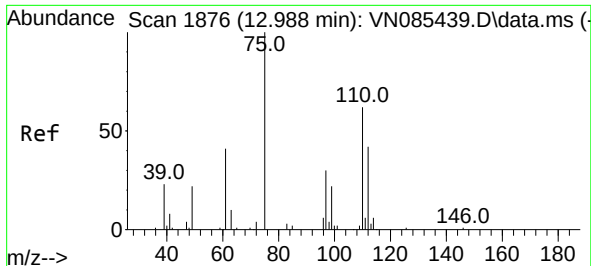
Tgt Ion:117 Resp: 318676  
Ion Ratio Lower Upper  
117 100  
82 56.0 48.6 72.8  
119 31.5 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Tgt Ion:152 Resp: 128696  
Ion Ratio Lower Upper  
152 100  
115 61.1 31.1 93.3  
150 158.6 0.0 343.6

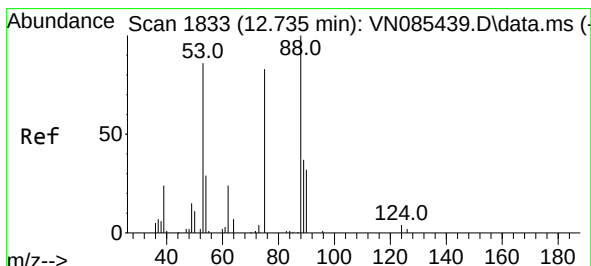
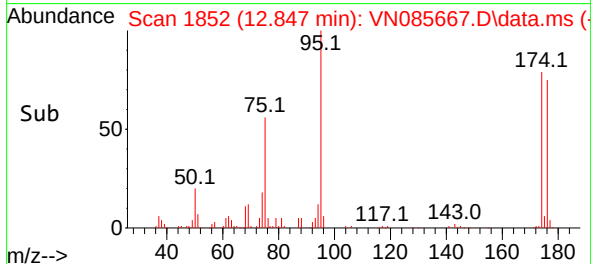
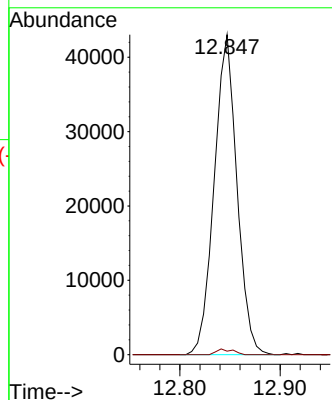
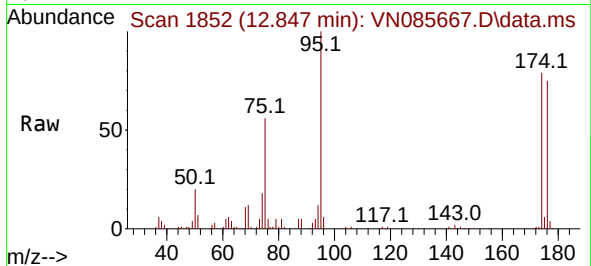




#76  
1,2,3-Trichloropropane  
Concen: 25.867 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

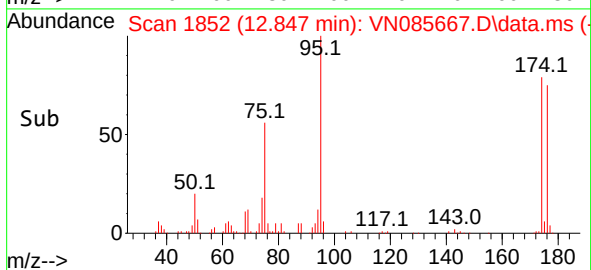
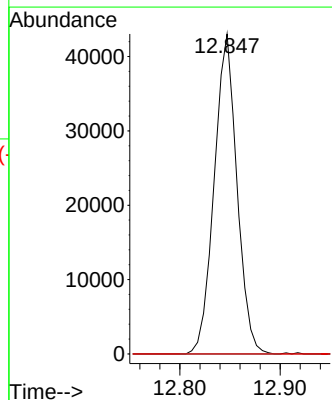
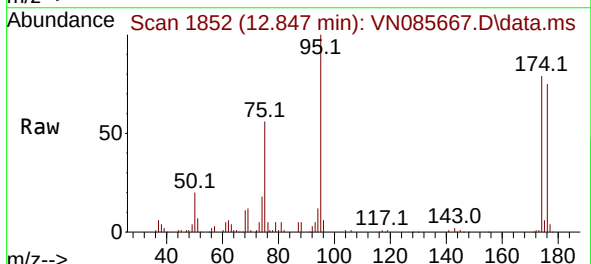
Instrument :  
MSVOA\_N  
ClientSampleId :

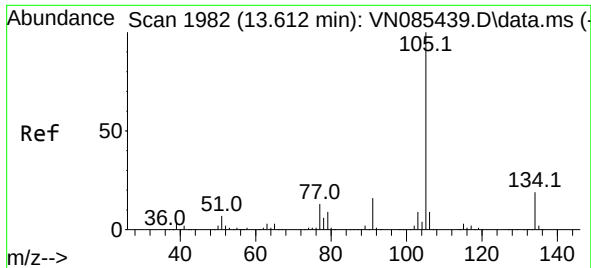
Tgt Ion: 75 Resp: 67663  
Ion Ratio Lower Upper  
75 100  
77 1.3 109.7 329.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.986 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Tgt Ion: 75 Resp: 67663  
Ion Ratio Lower Upper  
75 100  
53 0.0 95.6 143.4#  
89 0.0 37.0 55.6#

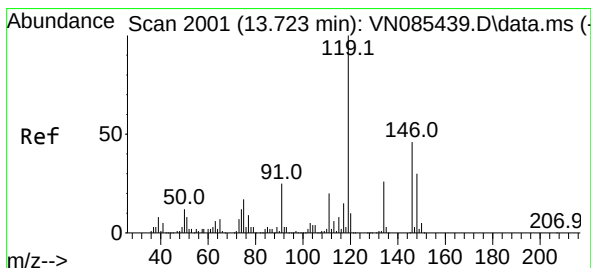
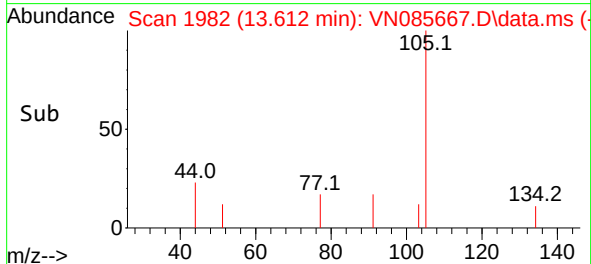
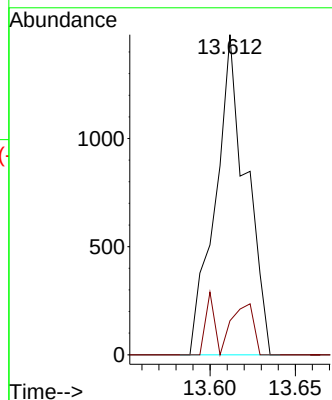
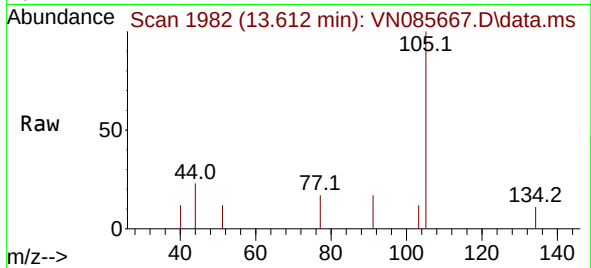




#85  
 sec-Butylbenzene  
 Concen: 0.223 ug/l  
 RT: 13.612 min Scan# 1982  
 Delta R.T. -0.000 min  
 Lab File: VN085667.D  
 Acq: 05 Feb 2025 10:22

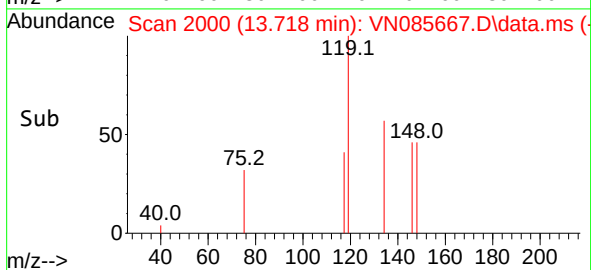
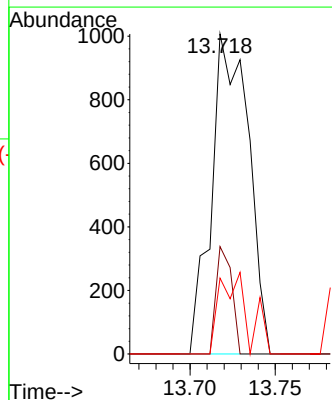
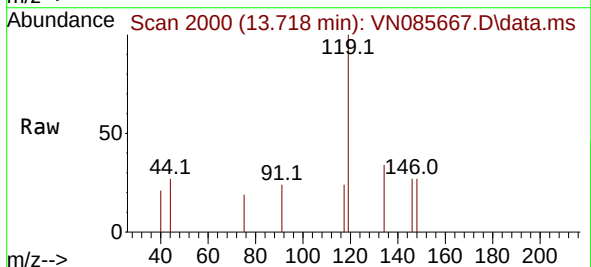
Instrument :  
 MSVOA\_N  
 ClientSampleId :

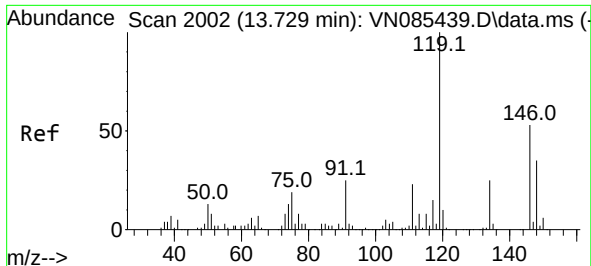
Tgt Ion:105 Resp: 1866  
 Ion Ratio Lower Upper  
 105 100  
 134 11.4 9.7 28.9



#86  
 p-Isopropyltoluene  
 Concen: 0.254 ug/l  
 RT: 13.718 min Scan# 2000  
 Delta R.T. -0.005 min  
 Lab File: VN085667.D  
 Acq: 05 Feb 2025 10:22

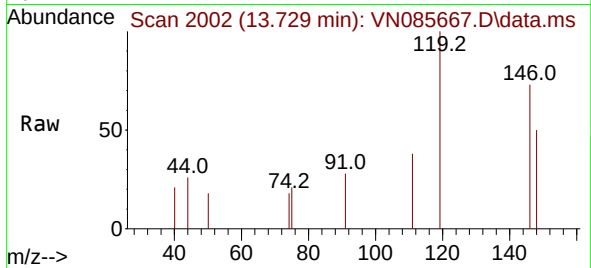
Tgt Ion:119 Resp: 1523  
 Ion Ratio Lower Upper  
 119 100  
 134 14.1 12.7 38.0  
 91 19.6 12.7 38.1



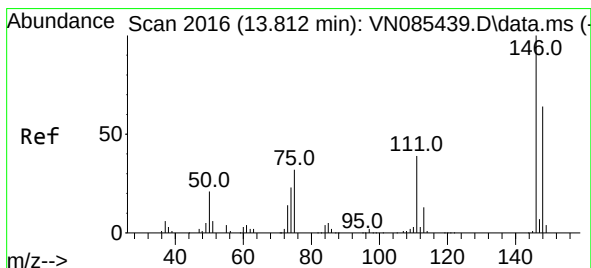
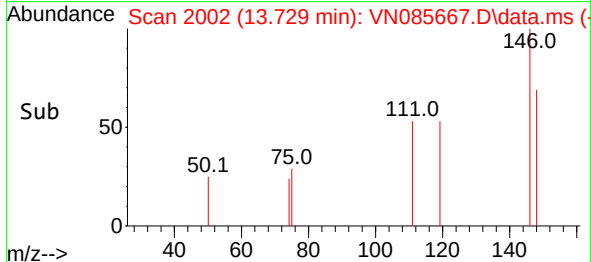
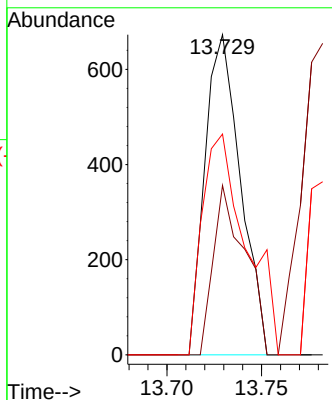


#87  
 1,3-Dichlorobenzene  
 Concen: 0.211 ug/l  
 RT: 13.729 min Scan# 2002  
 Delta R.T. 0.000 min  
 Lab File: VN085667.D  
 Acq: 05 Feb 2025 10:22

Instrument :  
 MSVOA\_N  
 ClientSampleId :

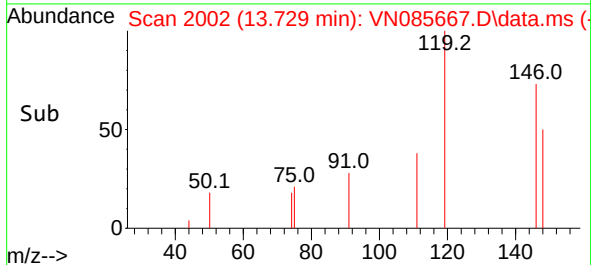
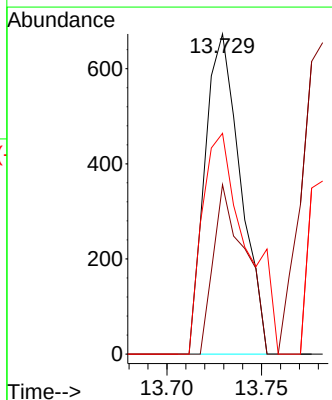
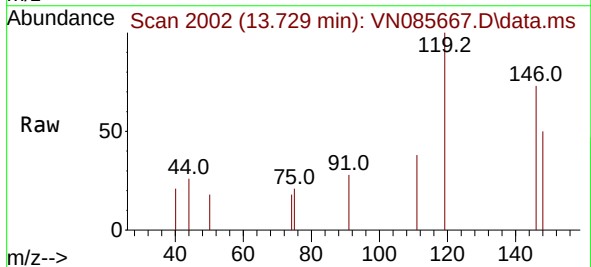


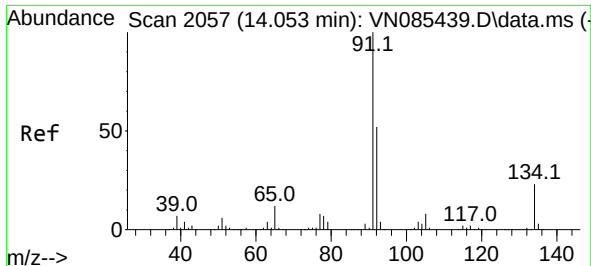
Tgt Ion:146 Resp: 880  
 Ion Ratio Lower Upper  
 146 100  
 111 47.3 21.4 64.3  
 148 84.8 32.3 96.9



#88  
 1,4-Dichlorobenzene  
 Concen: 0.203 ug/l  
 RT: 13.729 min Scan# 2002  
 Delta R.T. -0.082 min  
 Lab File: VN085667.D  
 Acq: 05 Feb 2025 10:22

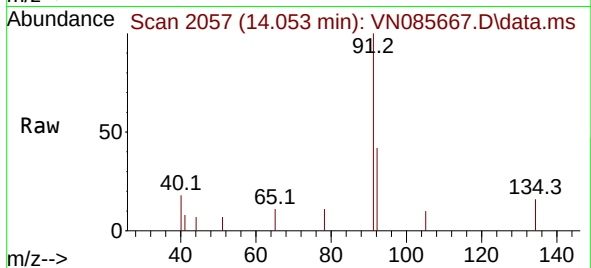
Tgt Ion:146 Resp: 880  
 Ion Ratio Lower Upper  
 146 100  
 111 47.3 21.3 63.7  
 148 84.8 32.4 97.0



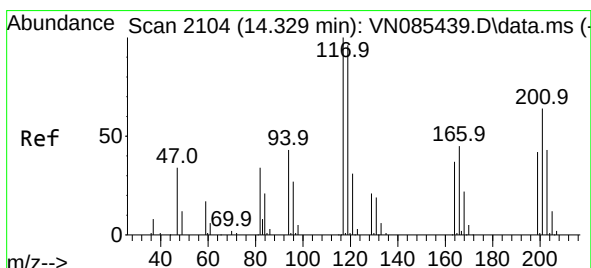
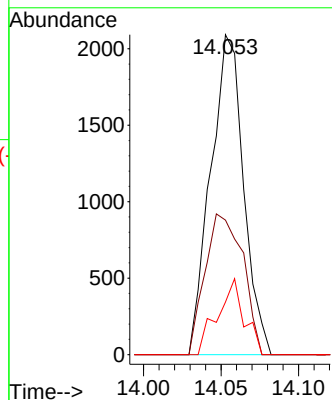
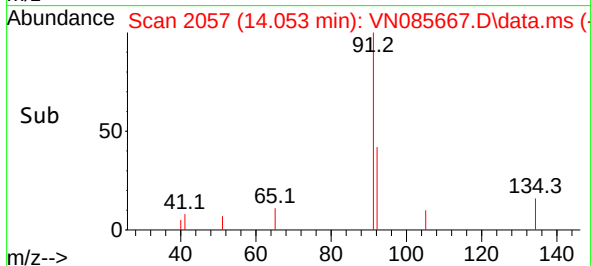


#89  
n-Butylbenzene  
Concen: 0.515 ug/l  
RT: 14.053 min Scan# 2057  
Delta R.T. 0.000 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Instrument :  
MSVOA\_N  
ClientSampleId :

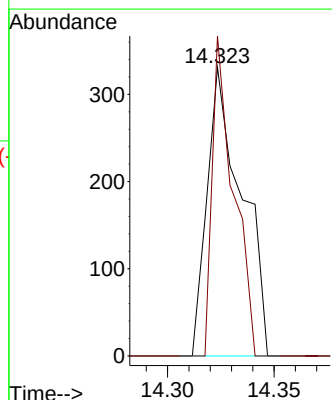
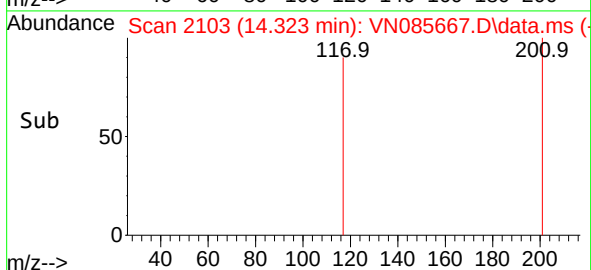
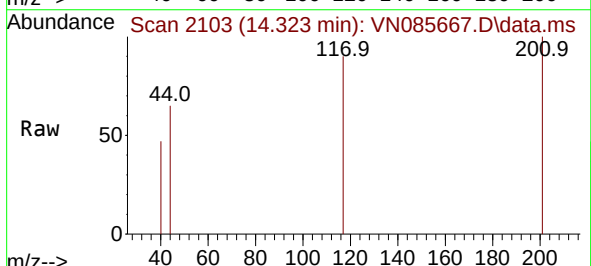


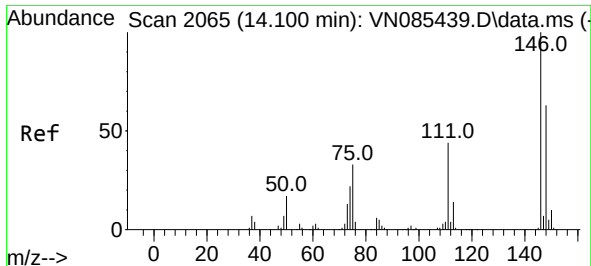
Tgt Ion: 91 Resp: 3085  
Ion Ratio Lower Upper  
91 100  
92 50.5 25.8 77.3  
134 19.2 11.7 35.1



#90  
Hexachloroethane  
Concen: 0.235 ug/l  
RT: 14.323 min Scan# 2103  
Delta R.T. -0.006 min  
Lab File: VN085667.D  
Acq: 05 Feb 2025 10:22

Tgt Ion: 117 Resp: 374  
Ion Ratio Lower Upper  
117 100  
201 67.9 33.7 101.0





#91

1,2-Dichlorobenzene

Concen: 0.219 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

Instrument :

MSVOA\_N

ClientSampleId :

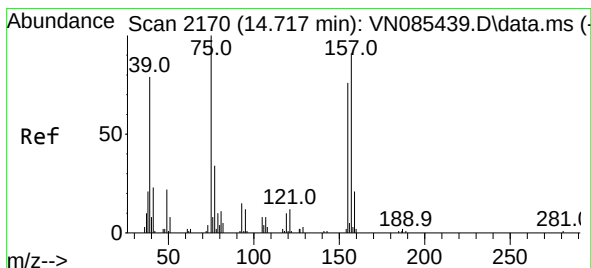
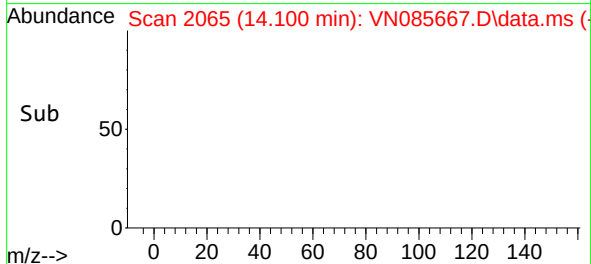
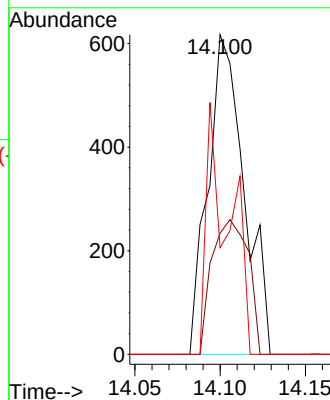
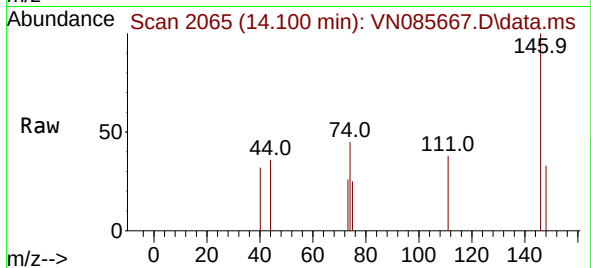
Tgt Ion:146 Resp: 912

Ion Ratio Lower Upper

146 100

111 42.3 21.7 65.1

148 49.3 31.4 94.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.268 ug/l

RT: 14.712 min Scan# 2169

Delta R.T. -0.006 min

Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

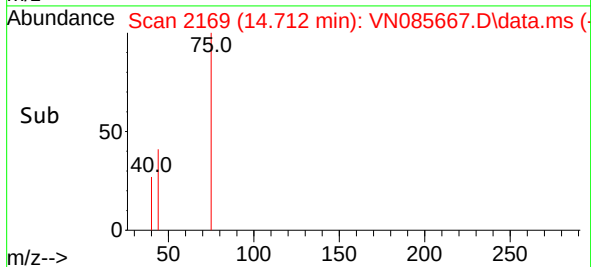
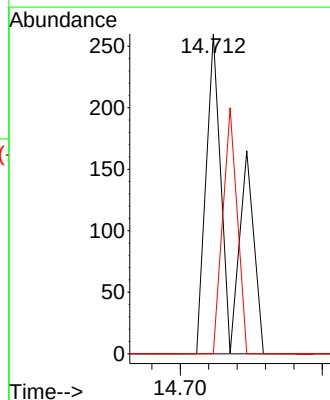
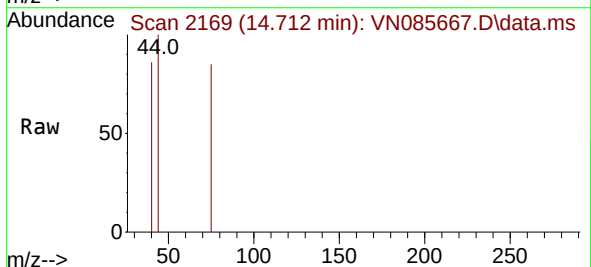
Tgt Ion: 75 Resp: 150

Ion Ratio Lower Upper

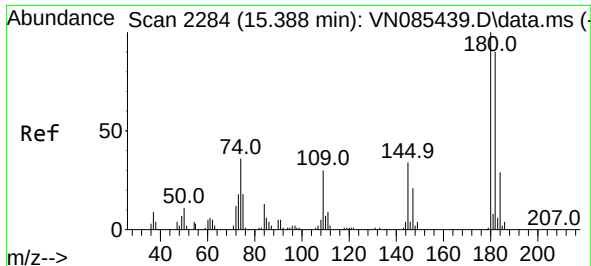
75 100

155 0.0 36.4 109.2#

157 47.3 45.4 136.1



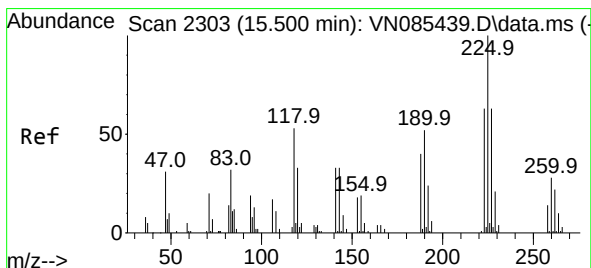
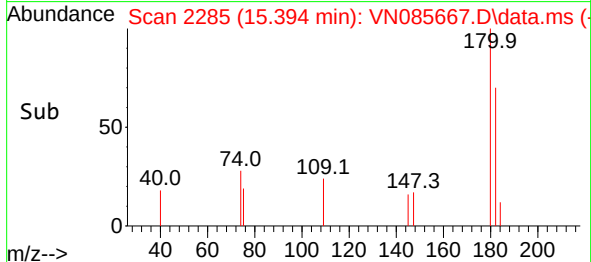
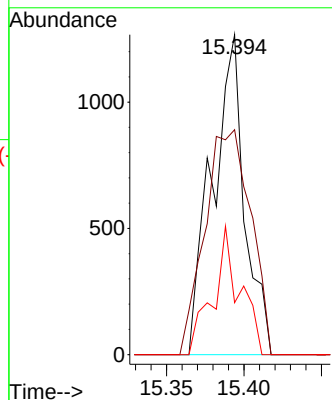
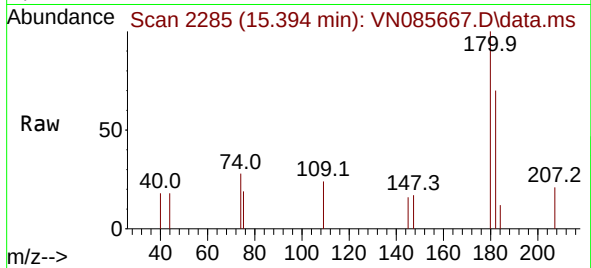




#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.949 ug/l  
 RT: 15.394 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN085667.D  
 Acq: 05 Feb 2025 10:22

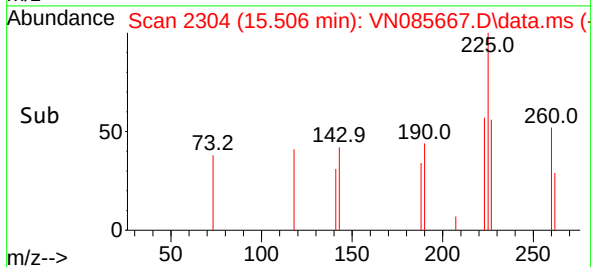
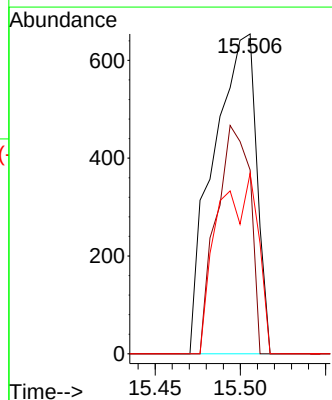
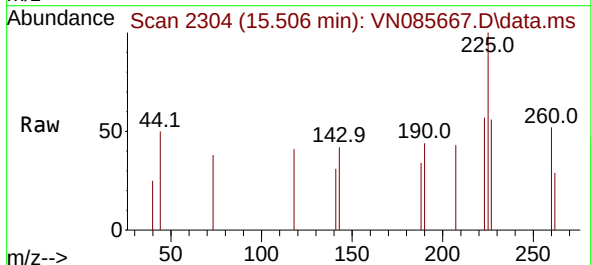
Instrument :  
 MSVOA\_N  
 ClientSampleId :

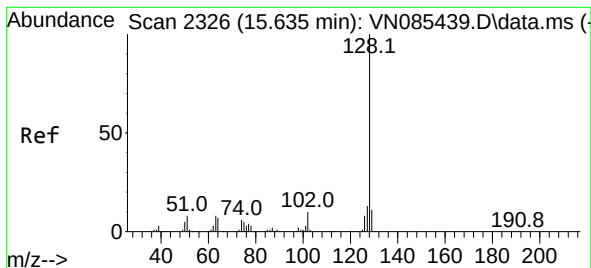
Tgt Ion:180 Resp: 1838  
 Ion Ratio Lower Upper  
 180 100  
 182 99.7 46.8 140.3  
 145 33.3 16.0 48.0



#94  
 Hexachlorobutadiene  
 Concen: 1.117 ug/l  
 RT: 15.506 min Scan# 2304  
 Delta R.T. 0.006 min  
 Lab File: VN085667.D  
 Acq: 05 Feb 2025 10:22

Tgt Ion:225 Resp: 1149  
 Ion Ratio Lower Upper  
 225 100  
 223 55.9 30.7 92.1  
 227 52.6 30.9 92.5





#95

Naphthalene

Concen: 1.237 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.006 min

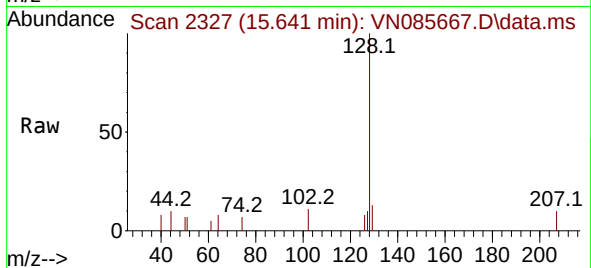
Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

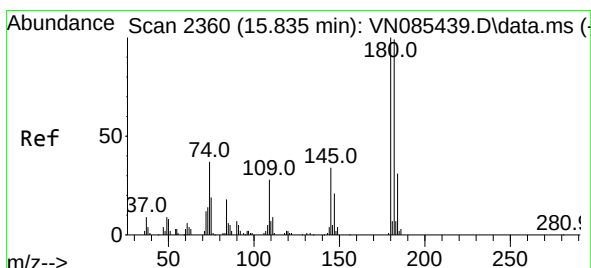
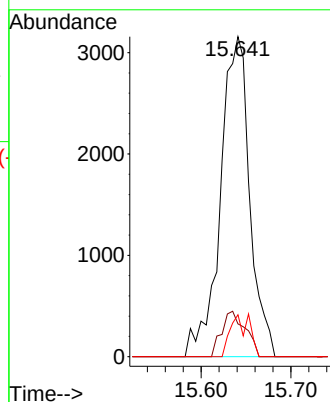
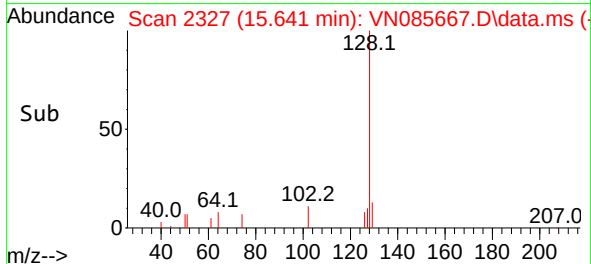
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7152  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.5  | 10.6  | 16.0  |
| 129      | 8.6   | 8.8   | 13.2# |



#96

1,2,3-Trichlorobenzene

Concen: 1.299 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085667.D

Acq: 05 Feb 2025 10:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 2546  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 98.7  | 47.4  | 142.2 |
| 145      | 22.3  | 16.9  | 50.7  |

