

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062524\  
 Data File : VN082711.D  
 Acq On : 25 Jun 2024 12:31  
 Operator : JC\MD  
 Sample : PB161676ZHE#03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 26 01:20:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061724W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 18 04:52:44 2024  
 Response via : Initial Calibration

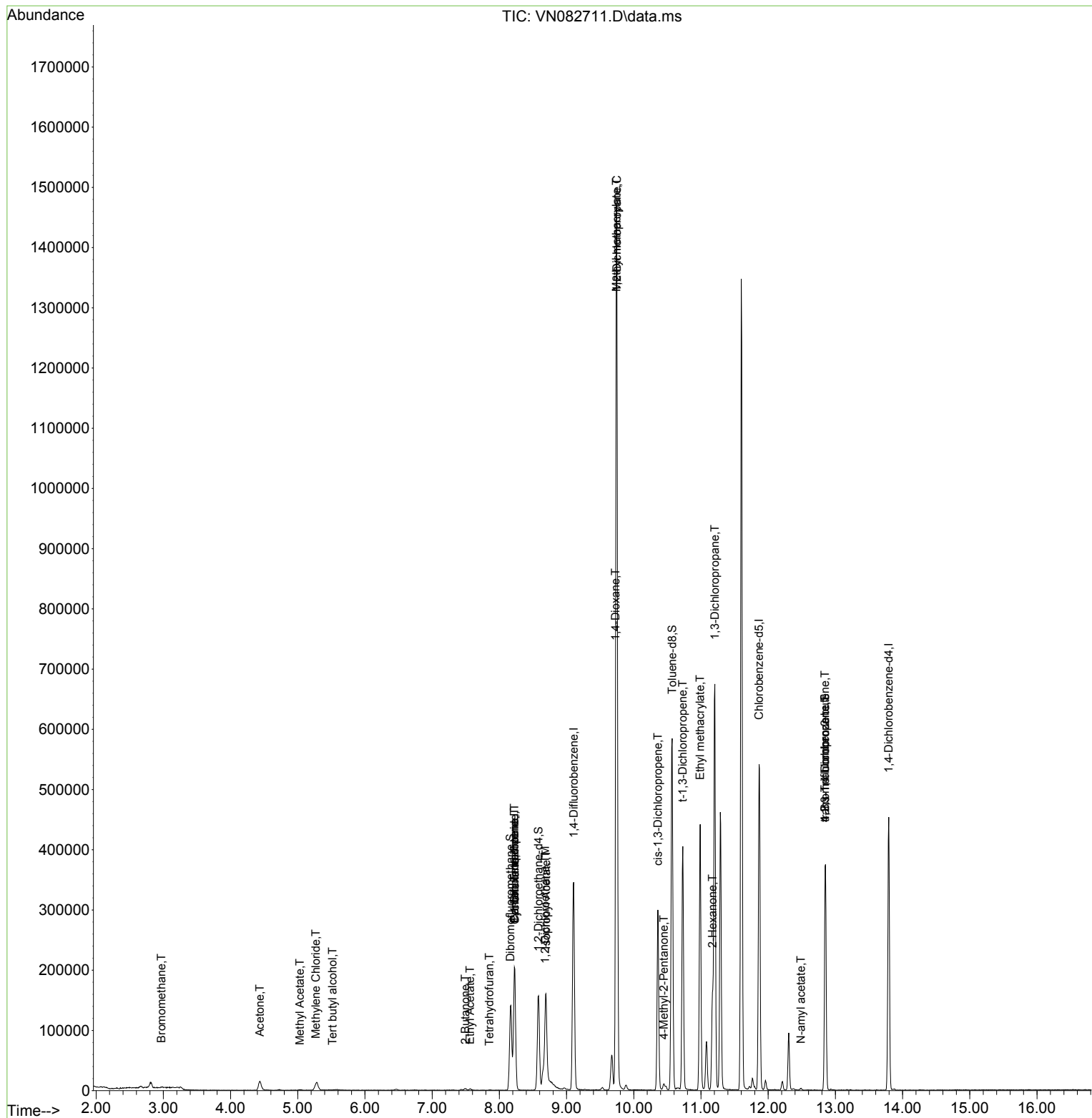
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 141531              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 275574              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 289991              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 113252              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 129896              | 57.232 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 114.460% |        |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 98348               | 52.607 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 105.220% |        |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 382742              | 54.139 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 108.280% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 121211              | 49.730 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 64 - 133 |      | Recovery = 99.460%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 5) Bromomethane               | 2.971          | 94   | 663                 | 0.457  | ug/l   | 89       |
| 11) Tert butyl alcohol        | 5.518          | 59   | 257                 | 0.692  | ug/l # | 71       |
| 16) Acetone                   | 4.436          | 43   | 28878               | 27.977 | ug/l   | 96       |
| 18) Methyl Acetate            | 5.030          | 43   | 1226                | 0.486  | ug/l # | 69       |
| 20) Methylene Chloride        | 5.271          | 84   | 9519                | 5.245  | ug/l # | 81       |
| 25) 2-Butanone                | 7.494          | 43   | 5000                | 3.408  | ug/l   | 98       |
| 29) Tetrahydrofuran           | 7.853          | 42   | 222                 | 0.247  | ug/l # | 62       |
| 31) Cyclohexane               | 8.230          | 56   | 4586                | 1.400  | ug/l # | 59       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 13009               | 4.655  | ug/l # | 52       |
| 37) Ethyl Acetate             | 7.565          | 43   | 3675                | 1.032  | ug/l # | 86       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 15616               | 4.958  | ug/l # | 17       |
| 42) 1,2-Dichloroethane        | 8.683          | 62   | 1078                | 0.328  | ug/l # | 78       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 236358              | 35.527 | ug/l # | 81       |
| 45) 1,2-Dichloropropane       | 9.747          | 63   | 1658                | 0.746  | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.741          | 41   | 148757              | 54.240 | ug/l # | 52       |
| 49) 1,4-Dioxane               | 9.730          | 88   | 61                  | 1.422  | ug/l # | 21       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 12267               | 3.595  | ug/l # | 74       |
| 53) t-1,3-Dichloropropene     | 10.729         | 75   | 709                 | 0.216  | ug/l # | 74       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 44048               | 12.971 | ug/l # | 66       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 2020                | 0.644  | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.206         | 76   | 6529                | 1.865  | ug/l # | 43       |
| 59) 2-Hexanone                | 11.171         | 43   | 129364              | 49.880 | ug/l # | 28       |
| 74) N-amyl acetate            | 12.488         | 43   | 2052                | 0.447  | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 71087               | 25.663 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 71087               | 61.398 | ug/l # | 6        |

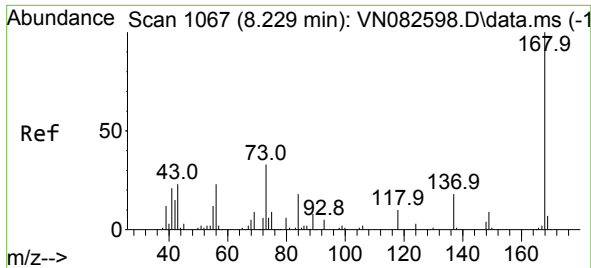
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062524\  
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MSVOA\_N  
ClientSampleId :

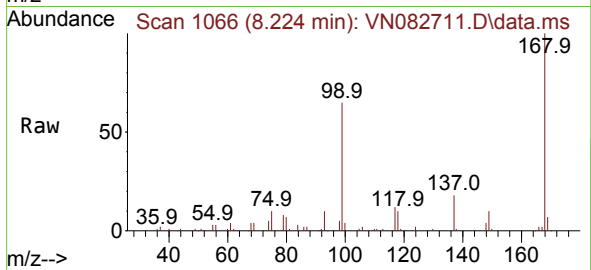
Quant Time: Jun 26 01:20:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061724W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 18 04:52:44 2024  
Response via : Initial Calibration



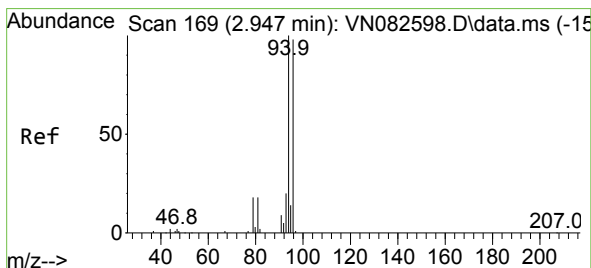
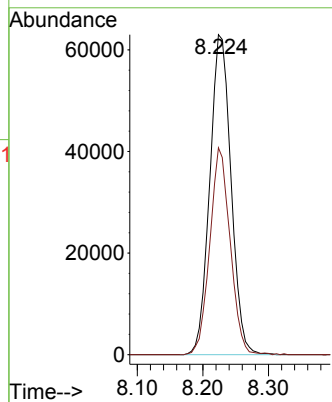
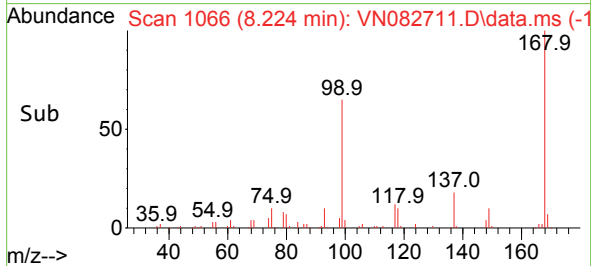


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.005 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Instrument :  
MSVOA\_N  
ClientSampleId :

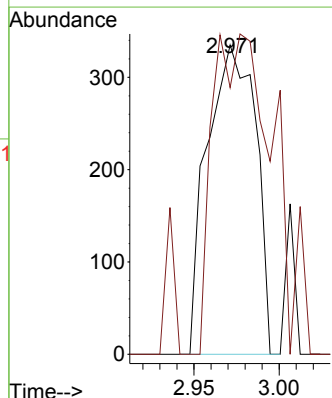
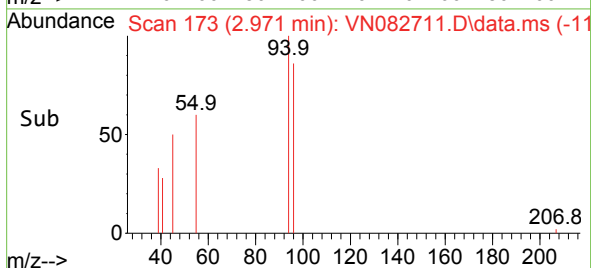
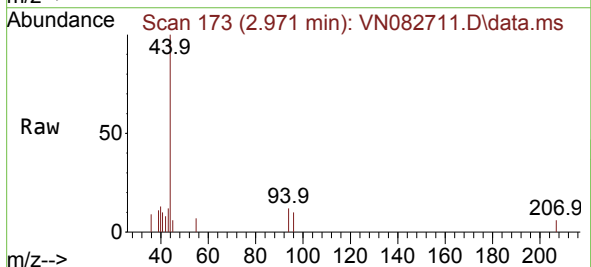


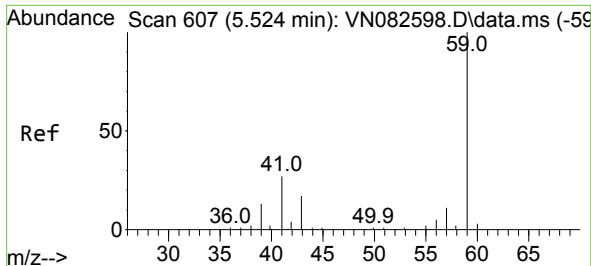
Tgt Ion:168 Resp: 141531  
Ion Ratio Lower Upper  
168 100  
99 64.6 48.2 72.4



#5  
Bromomethane  
Concen: 0.457 ug/l  
RT: 2.971 min Scan# 173  
Delta R.T. 0.024 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

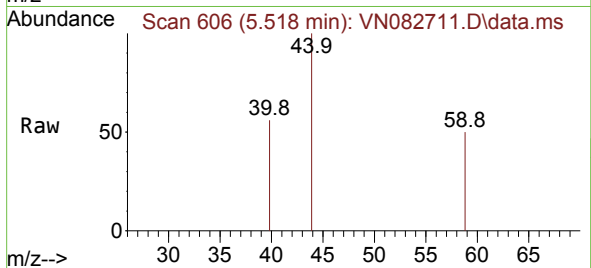
Tgt Ion: 94 Resp: 663  
Ion Ratio Lower Upper  
94 100  
96 86.3 78.0 117.0



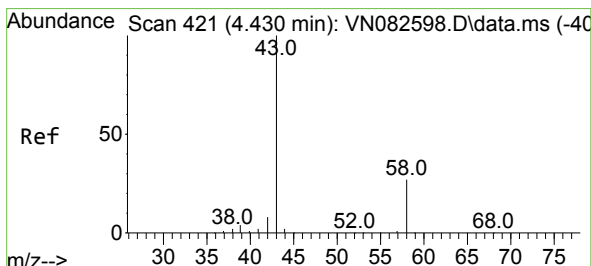
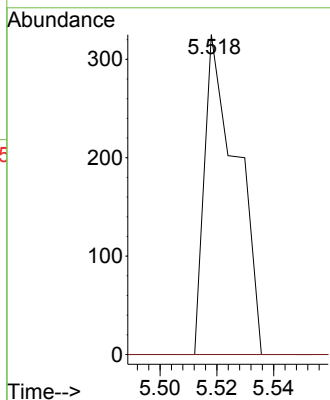
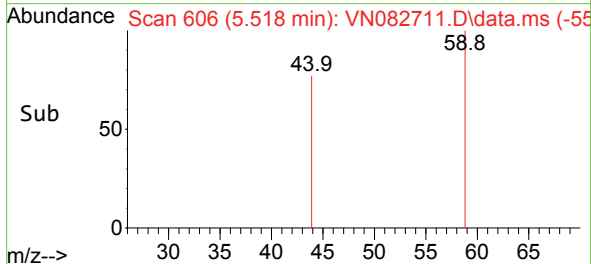


#11  
Tert butyl alcohol  
Concen: 0.692 ug/l  
RT: 5.518 min Scan# 607  
Delta R.T. -0.006 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

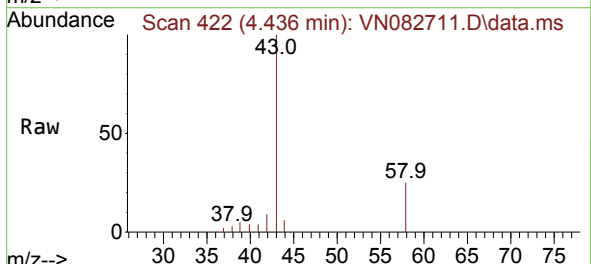
Instrument :  
MSVOA\_N  
ClientSampleId :



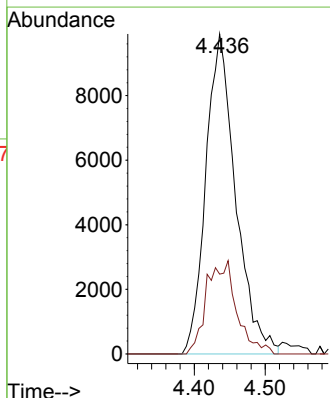
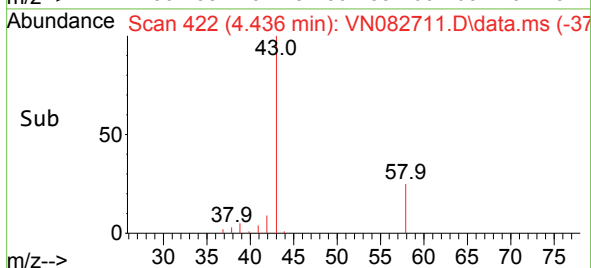
Tgt Ion: 59 Resp: 257  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#

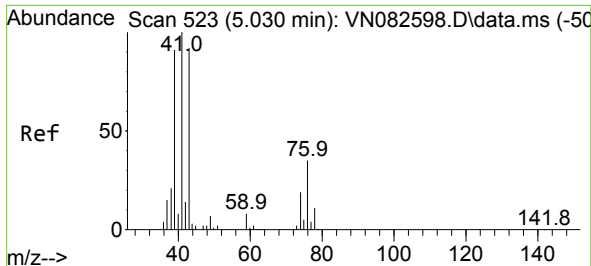


#16  
Acetone  
Concen: 27.977 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.006 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31



Tgt Ion: 43 Resp: 28878  
Ion Ratio Lower Upper  
43 100  
58 25.0 21.8 32.6





#18

Methyl Acetate

Concen: 0.486 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN082711.D

Acq: 25 Jun 2024 12:31

Instrument :

MSVOA\_N

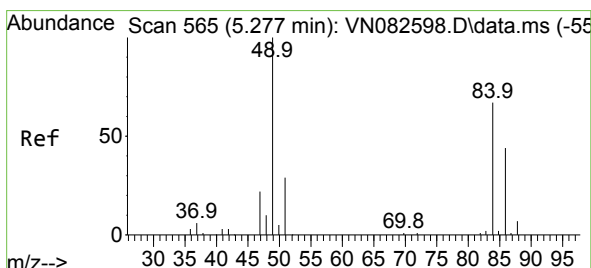
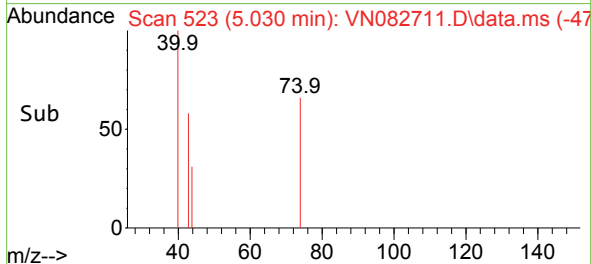
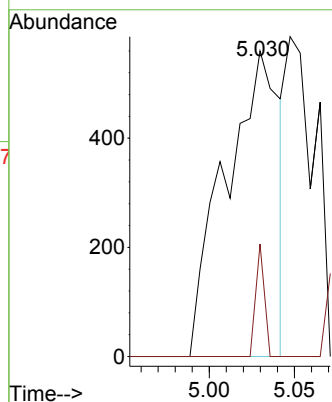
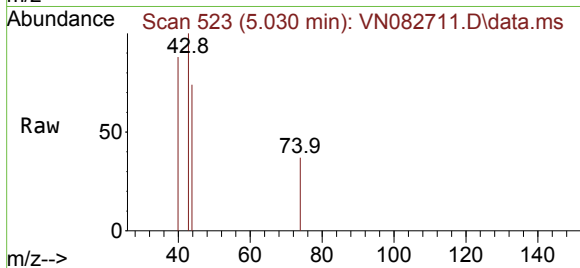
ClientSampleId :

Tgt Ion: 43 Resp: 1226

Ion Ratio Lower Upper

43 100

74 6.0 16.3 24.5#



#20

Methylene Chloride

Concen: 5.245 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN082711.D

Acq: 25 Jun 2024 12:31

Tgt Ion: 84 Resp: 9519

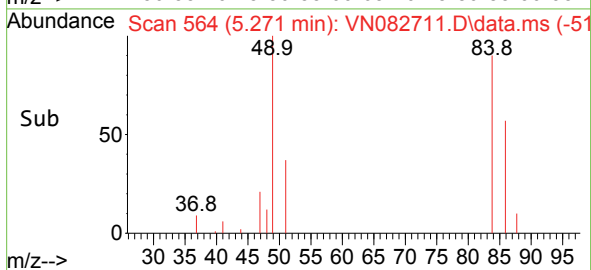
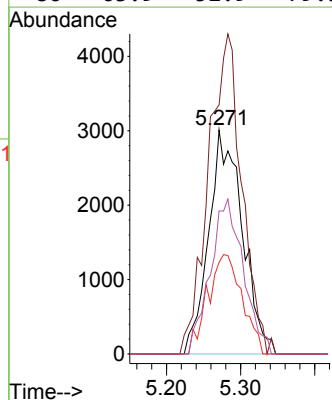
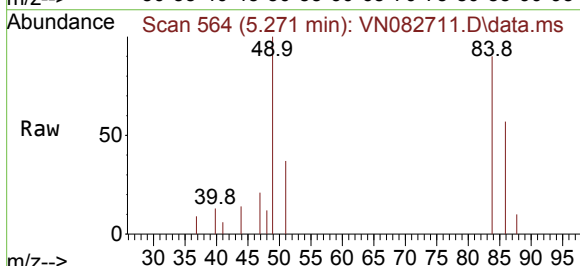
Ion Ratio Lower Upper

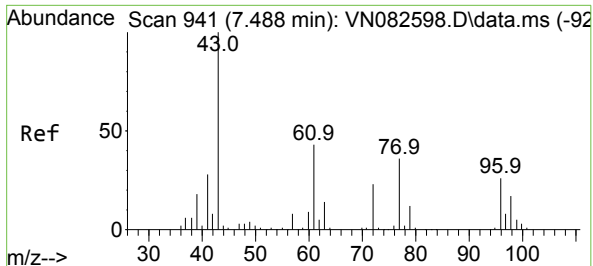
84 100

49 111.3 119.6 179.4#

51 41.0 34.8 52.2

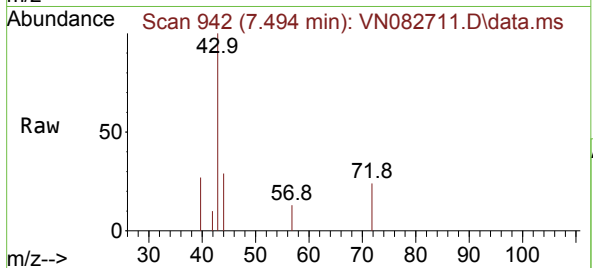
86 63.9 52.9 79.3



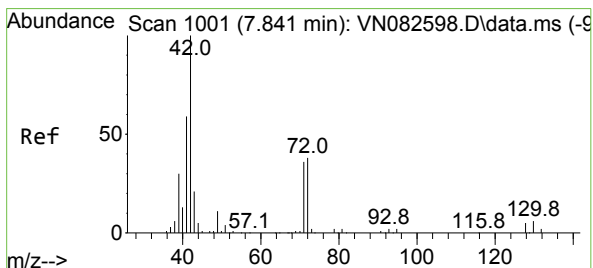
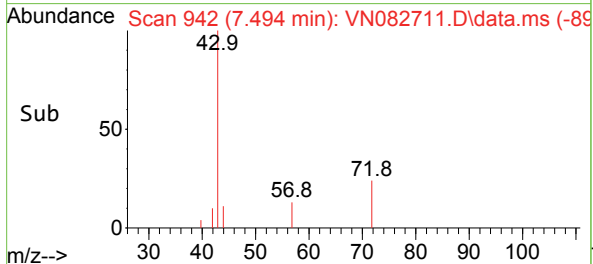
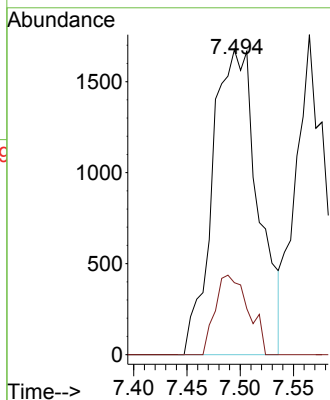


#25  
2-Butanone  
Concen: 3.408 ug/l  
RT: 7.494 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Instrument :  
MSVOA\_N  
ClientSampleId :

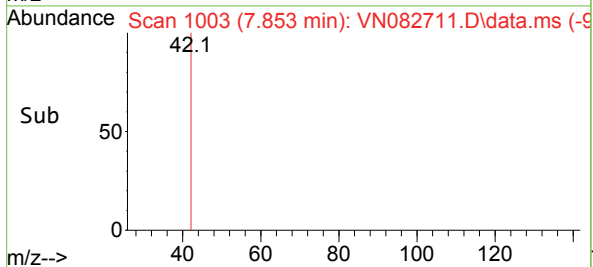
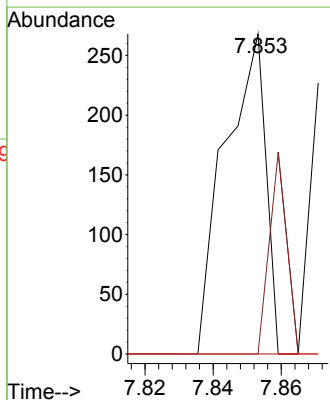
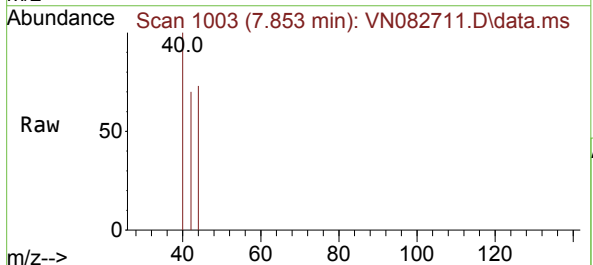


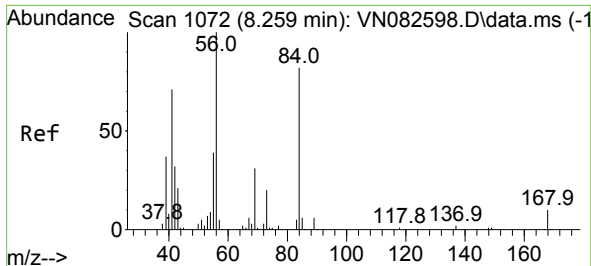
Tgt Ion: 43 Resp: 5000  
Ion Ratio Lower Upper  
43 100  
72 23.6 18.2 27.2



#29  
Tetrahydrofuran  
Concen: 0.247 ug/l  
RT: 7.853 min Scan# 1003  
Delta R.T. 0.012 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

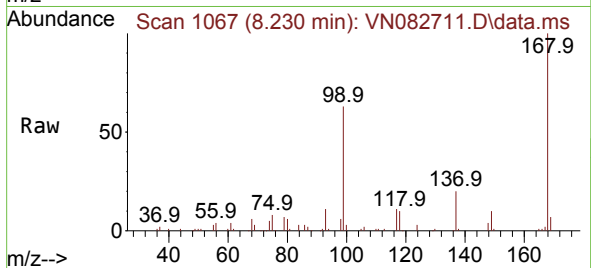
Tgt Ion: 42 Resp: 222  
Ion Ratio Lower Upper  
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72 27.0 30.0 45.0#  
71 0.0 28.3 42.5#



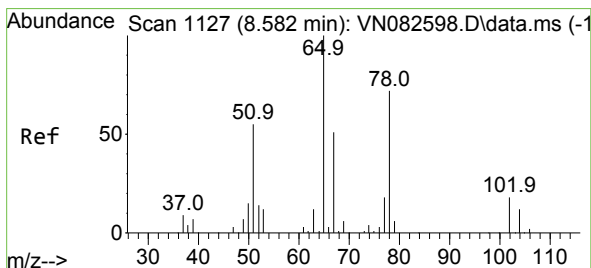
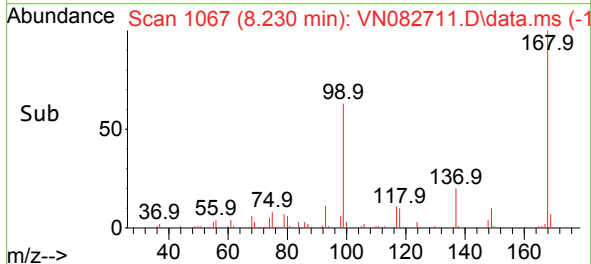
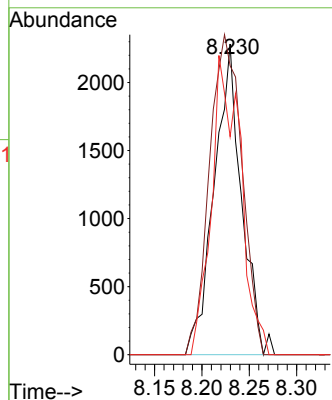


#31  
Cyclohexane  
Concen: 1.400 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

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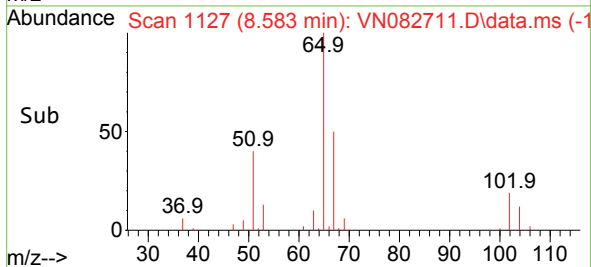
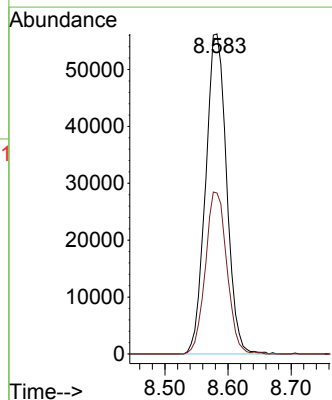
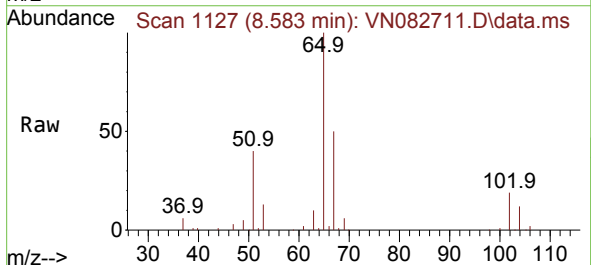


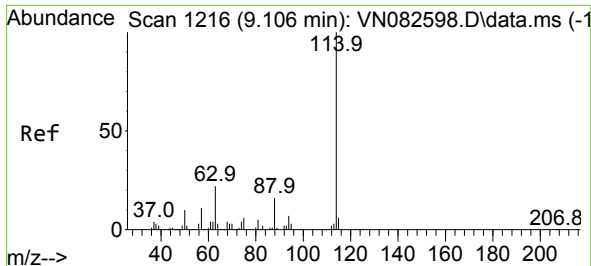
Tgt Ion: 56 Resp: 4586  
Ion Ratio Lower Upper  
56 100  
69 93.0 24.5 36.7#  
84 70.2 66.0 99.0



#33  
1,2-Dichloroethane-d4  
Concen: 57.232 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Tgt Ion: 65 Resp: 129896  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

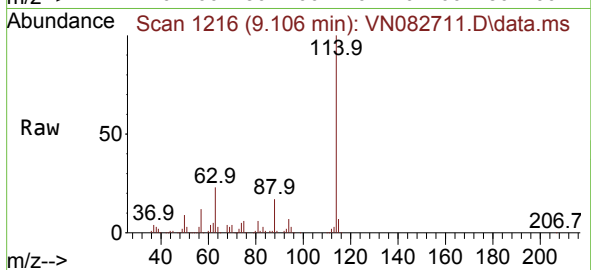
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Acq: 25 Jun 2024 12:31

Instrument :

MSVOA\_N

ClientSampleId :



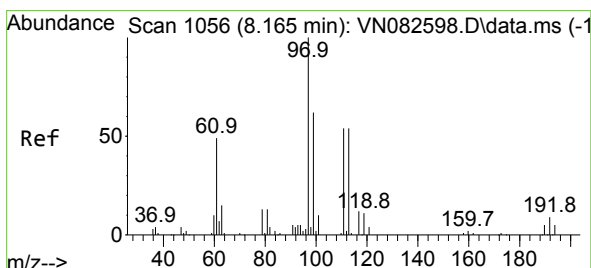
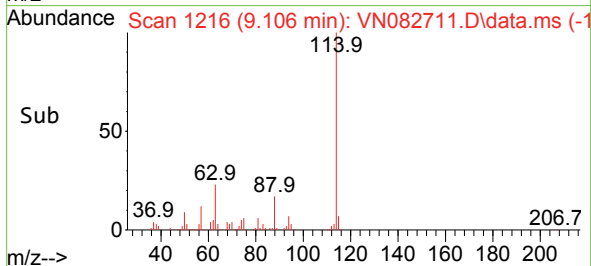
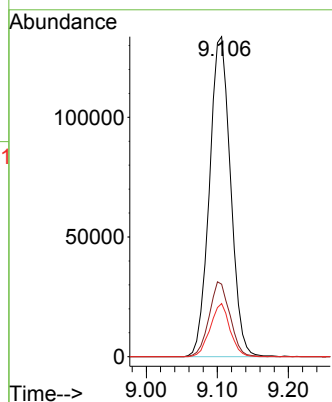
Tgt Ion:114 Resp: 275574

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.6

88 16.6 0.0 31.4



#35

Dibromofluoromethane

Concen: 52.607 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN082711.D

Acq: 25 Jun 2024 12:31

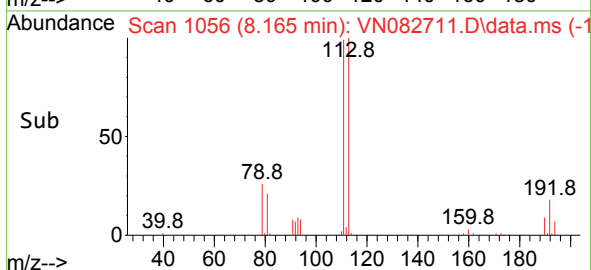
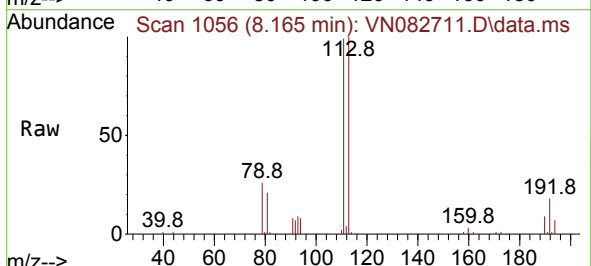
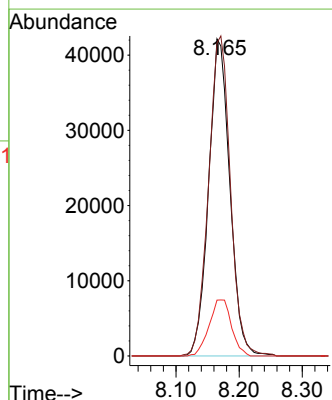
Tgt Ion:113 Resp: 98348

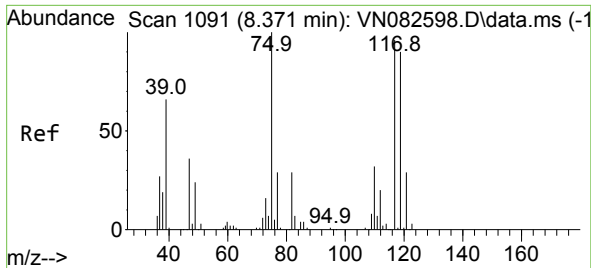
Ion Ratio Lower Upper

113 100

111 103.9 82.4 123.6

192 18.6 14.9 22.3





#36

1,1-Dichloropropene

Concen: 4.655 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

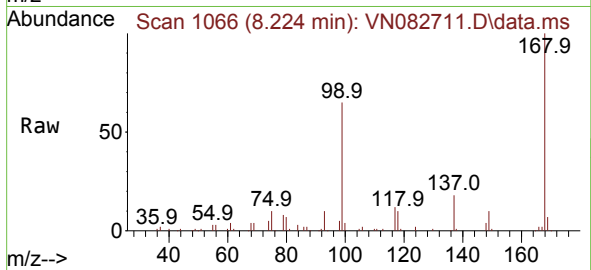
Lab File: VN082711.D

Acq: 25 Jun 2024 12:31

Instrument :

MSVOA\_N

ClientSampleId :



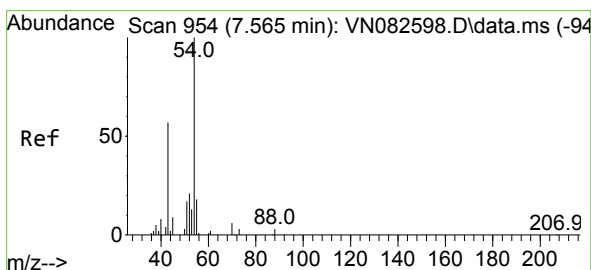
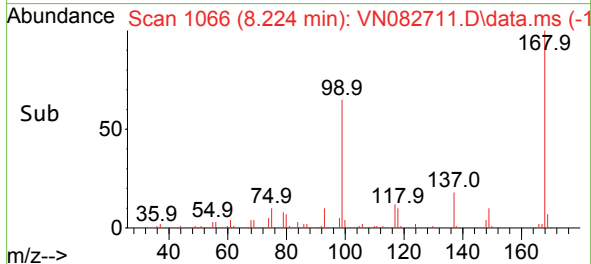
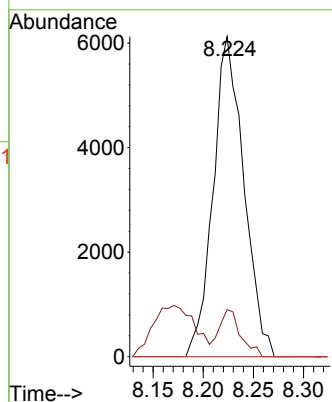
Tgt Ion: 75 Resp: 13009

Ion Ratio Lower Upper

75 100

110 10.4 16.3 48.9#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.032 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.000 min

Lab File: VN082711.D

Acq: 25 Jun 2024 12:31

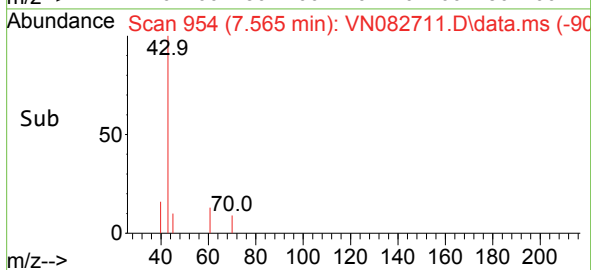
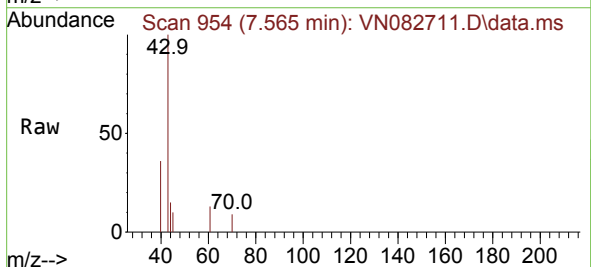
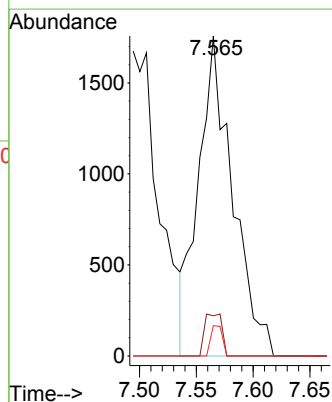
Tgt Ion: 43 Resp: 3675

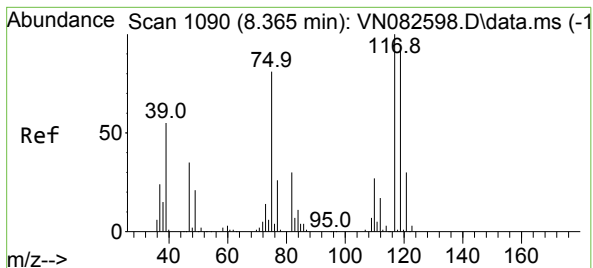
Ion Ratio Lower Upper

43 100

61 6.5 9.3 13.9#

70 3.2 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 4.958 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

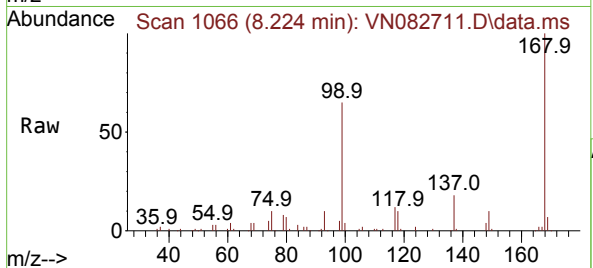
Lab File: VN082711.D

Acq: 25 Jun 2024 12:31

Instrument :

MSVOA\_N

ClientSampleId :



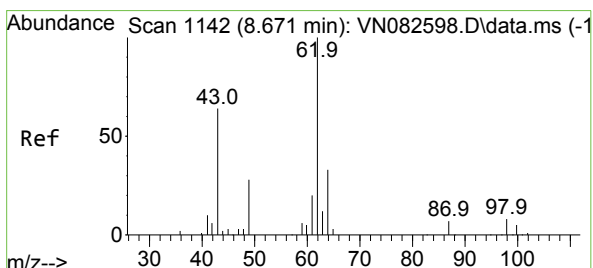
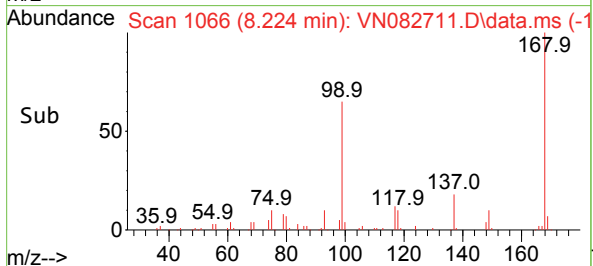
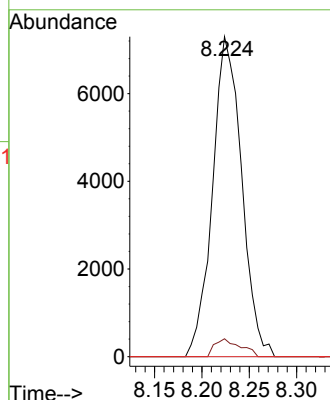
Tgt Ion:117 Resp: 15616

Ion Ratio Lower Upper

117 100

119 5.6 74.9 112.3#

121 0.0 24.3 36.5#



#42

1,2-Dichloroethane

Concen: 0.328 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN082711.D

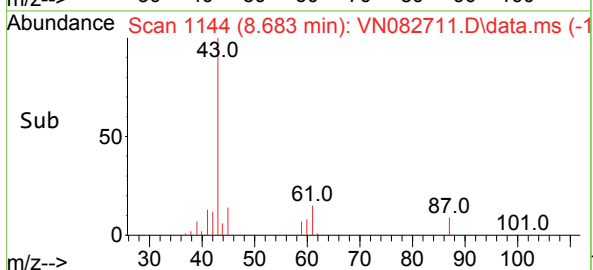
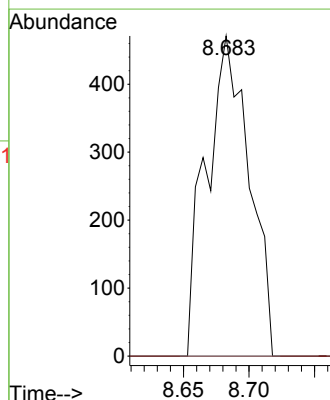
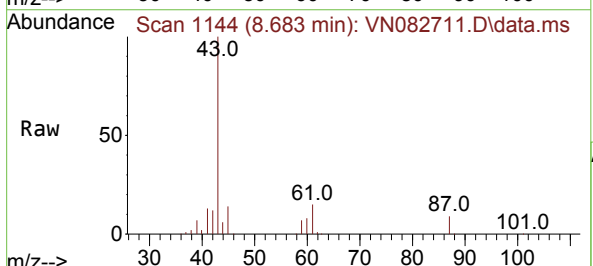
Acq: 25 Jun 2024 12:31

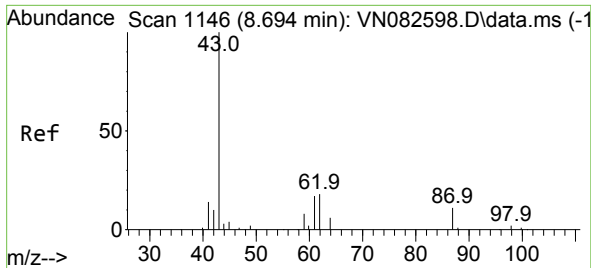
Tgt Ion: 62 Resp: 1078

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8

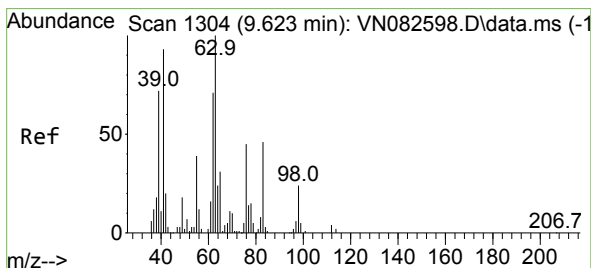
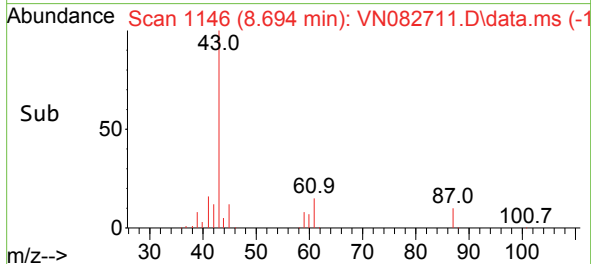
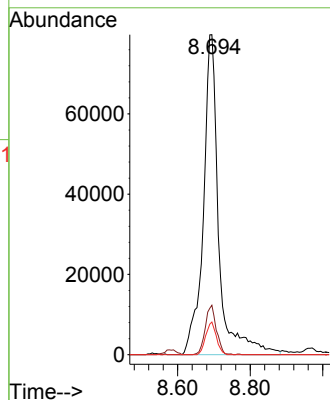
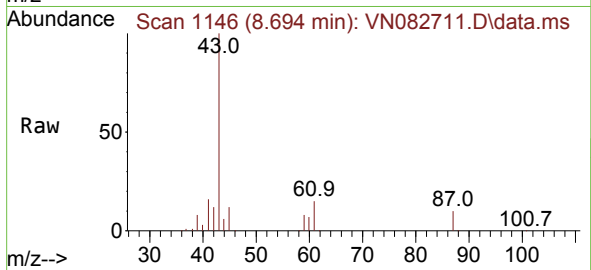




#43  
Isopropyl Acetate  
Concen: 35.527 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.000 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

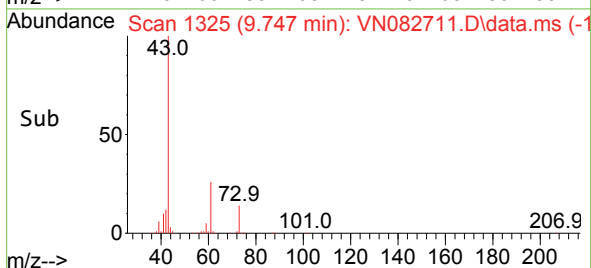
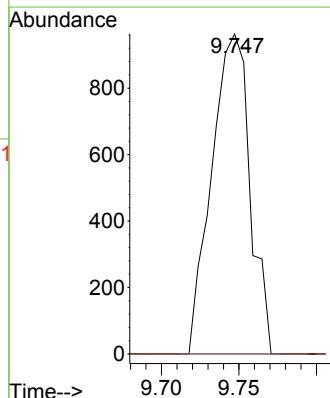
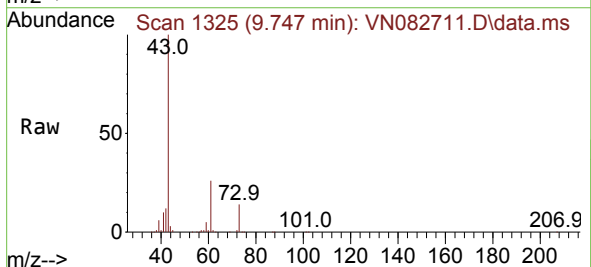
Instrument :  
MSVOA\_N  
ClientSampleId :

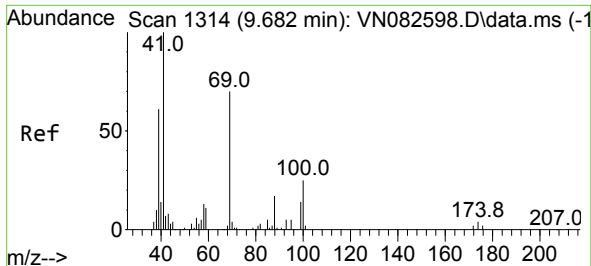
Tgt Ion: 43 Resp: 236358  
Ion Ratio Lower Upper  
43 100  
61 11.1 17.8 26.6#  
87 7.0 8.2 12.2#



#45  
1,2-Dichloropropane  
Concen: 0.746 ug/l  
RT: 9.747 min Scan# 1325  
Delta R.T. 0.124 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Tgt Ion: 63 Resp: 1658  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.4 36.6#

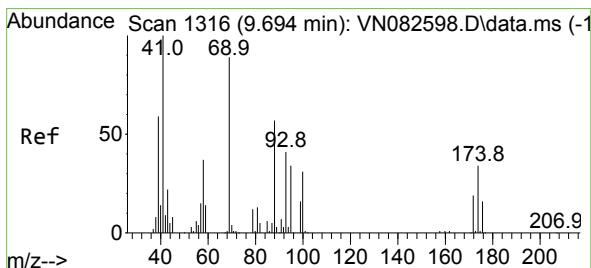
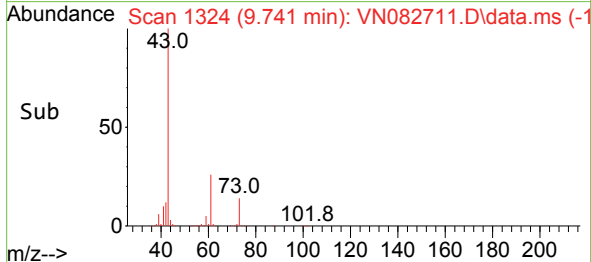
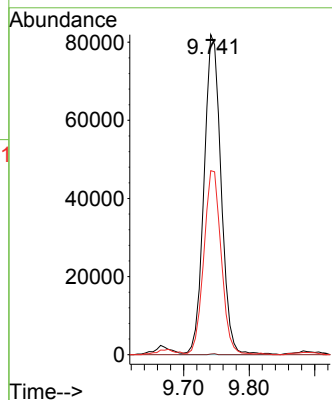
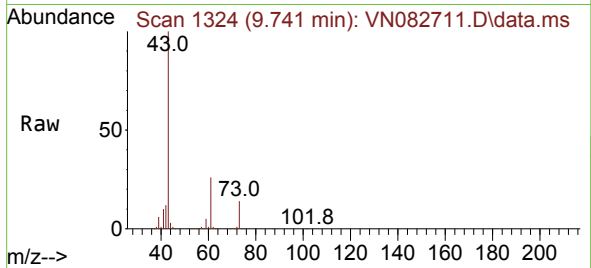




#48  
Methyl methacrylate  
Concen: 54.240 ug/l  
RT: 9.741 min Scan# 11  
Delta R.T. 0.059 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

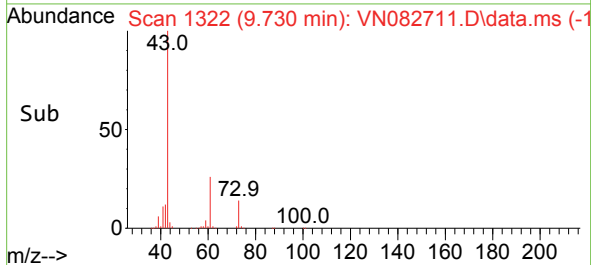
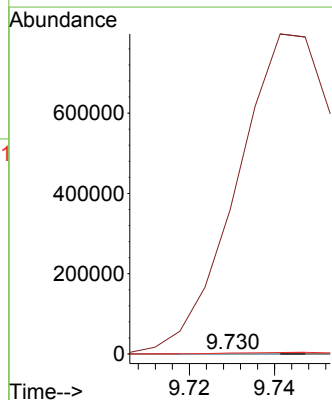
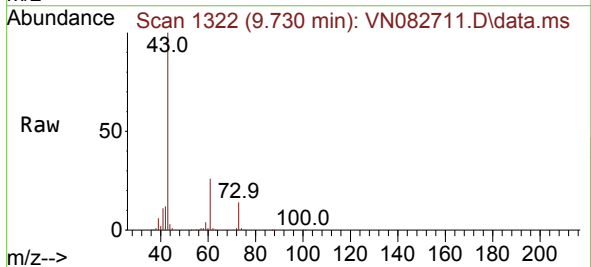
Instrument :  
MSVOA\_N  
ClientSampleId :

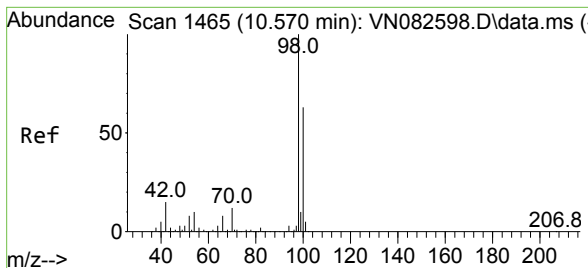
Tgt Ion: 41 Resp: 148757  
Ion Ratio Lower Upper  
41 100  
69 0.1 56.3 84.5#  
39 58.1 50.3 75.5



#49  
1,4-Dioxane  
Concen: 1.422 ug/l  
RT: 9.730 min Scan# 1322  
Delta R.T. 0.035 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Tgt Ion: 88 Resp: 61  
Ion Ratio Lower Upper  
88 100  
43 0.0 27.8 41.8#  
58 0.0 59.4 89.0#

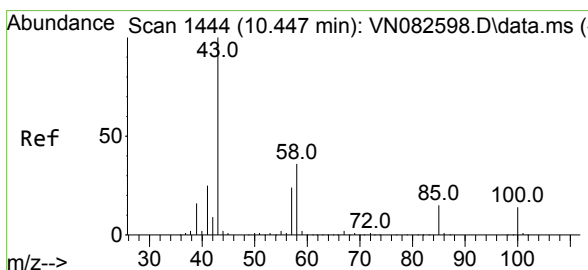
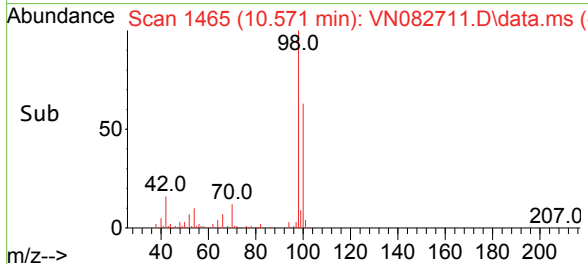
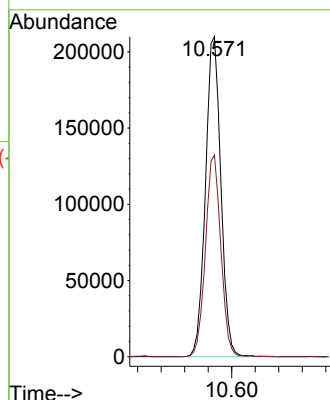
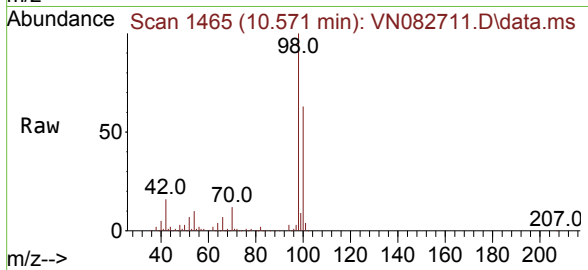




#50  
Toluene-d8  
Concen: 54.139 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

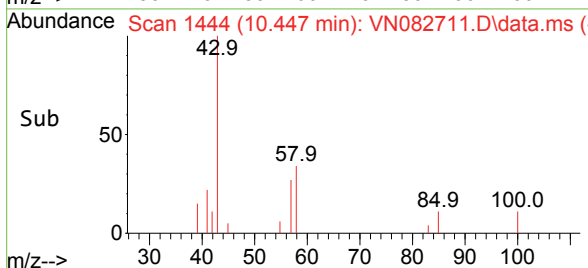
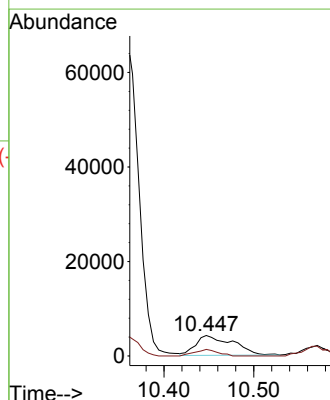
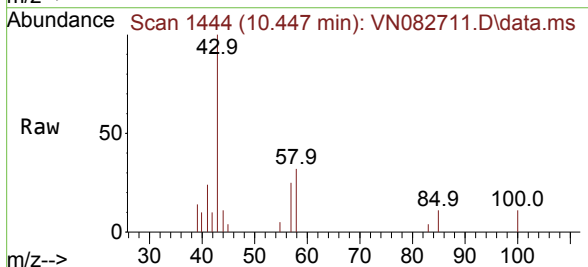
Instrument :  
MSVOA\_N  
ClientSampleId :

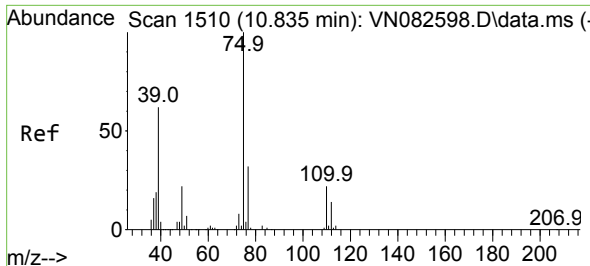
Tgt Ion: 98 Resp: 382742  
Ion Ratio Lower Upper  
98 100  
100 63.0 51.5 77.3



#51  
4-Methyl-2-Pentanone  
Concen: 3.595 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

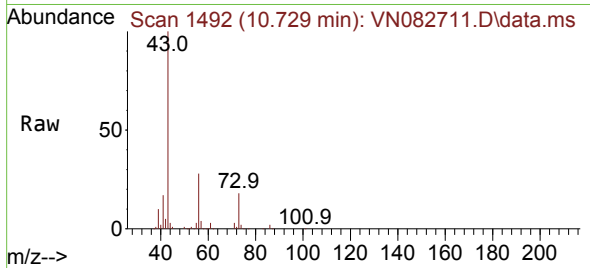
Tgt Ion: 43 Resp: 12267  
Ion Ratio Lower Upper  
43 100  
58 19.9 28.2 42.4#



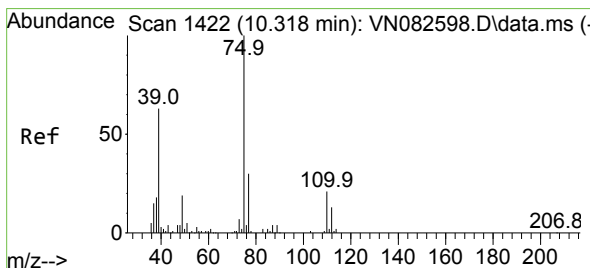
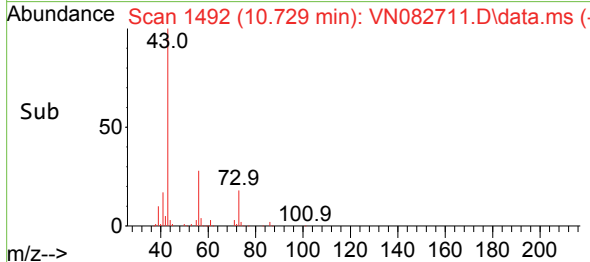
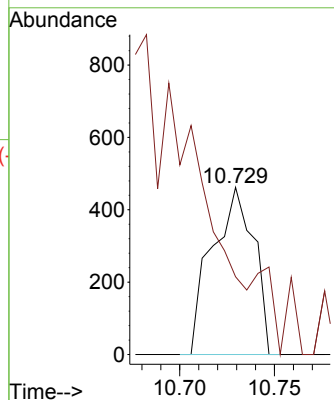


#53  
 t-1,3-Dichloropropene  
 Concen: 0.216 ug/l  
 RT: 10.729 min Scan# 1492  
 Delta R.T. -0.106 min  
 Lab File: VN082711.D  
 Acq: 25 Jun 2024 12:31

Instrument :  
 MSVOA\_N  
 ClientSampleId :

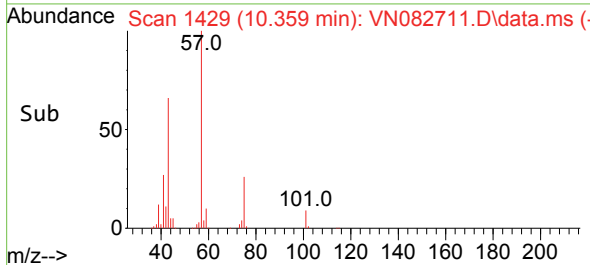
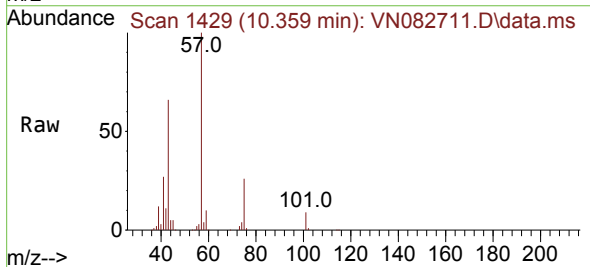
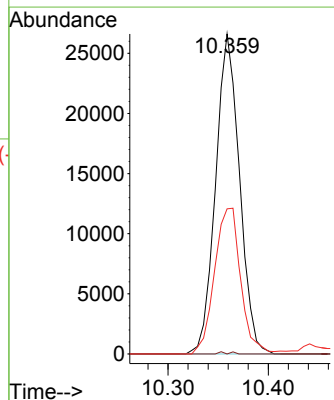


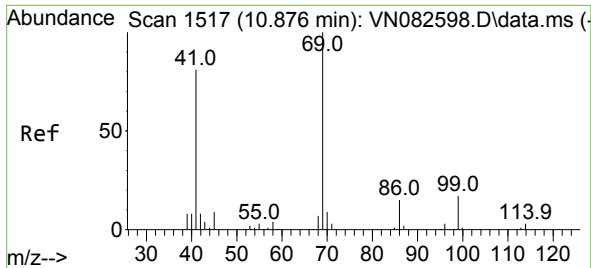
Tgt Ion: 75 Resp: 709  
 Ion Ratio Lower Upper  
 75 100  
 77 46.5 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 12.971 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.041 min  
 Lab File: VN082711.D  
 Acq: 25 Jun 2024 12:31

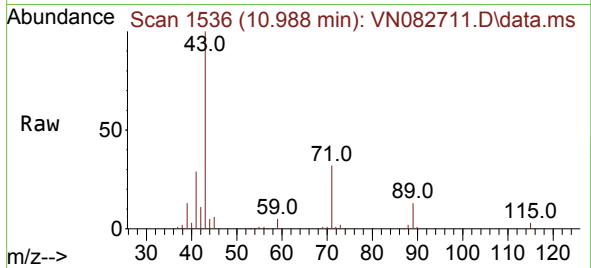
Tgt Ion: 75 Resp: 44048  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.3 36.5#  
 39 45.3 50.5 75.7#



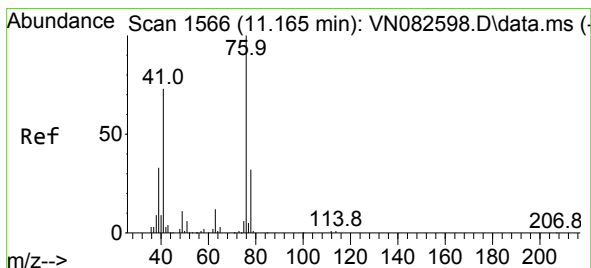
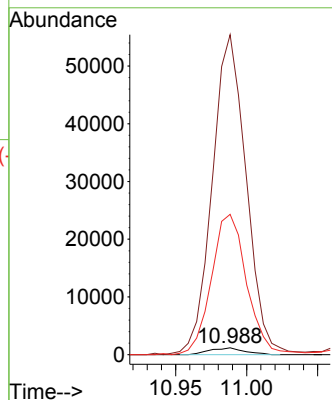
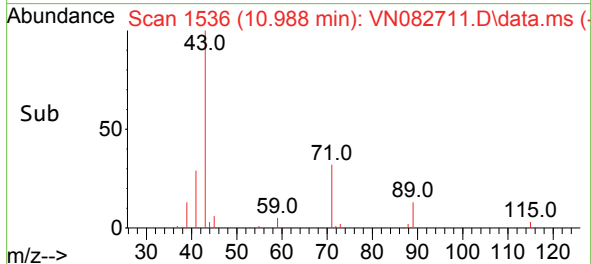


#56  
Ethyl methacrylate  
Concen: 0.644 ug/l  
RT: 10.988 min Scan# 1536  
Delta R.T. 0.112 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Instrument :  
MSVOA\_N  
ClientSampleId :

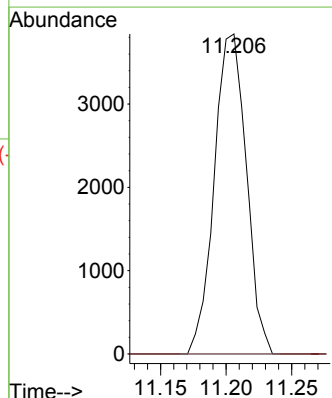
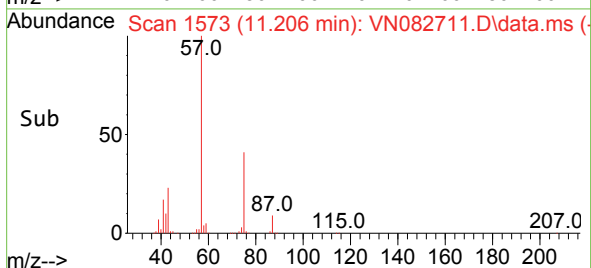
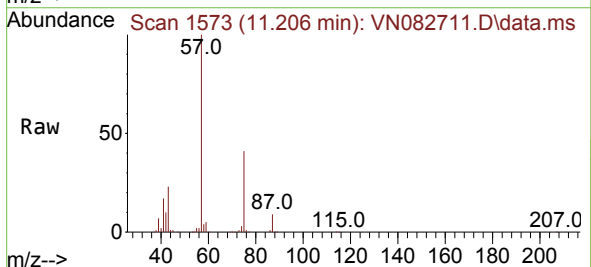


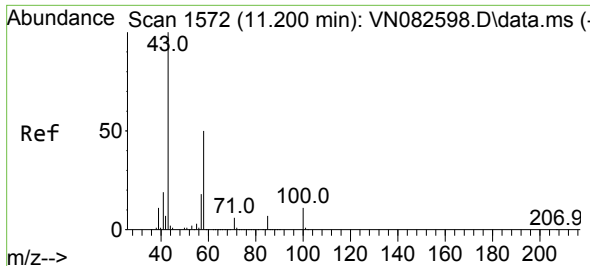
Tgt Ion: 69 Resp: 2020  
Ion Ratio Lower Upper  
69 100  
41 4578.2 63.4 95.2#  
39 2091.4 37.4 56.0#



#57  
1,3-Dichloropropane  
Concen: 1.865 ug/l  
RT: 11.206 min Scan# 1573  
Delta R.T. 0.041 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Tgt Ion: 76 Resp: 6529  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.6 38.4#

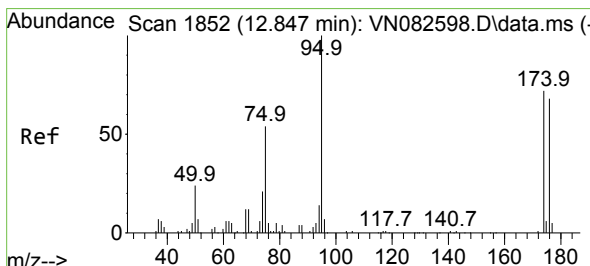
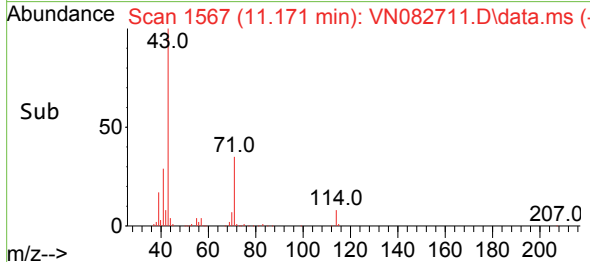
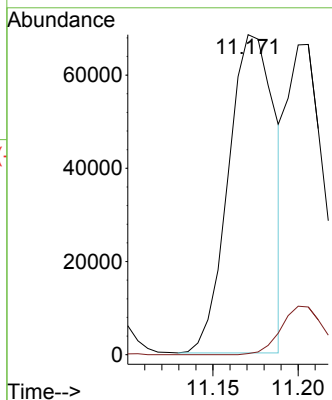
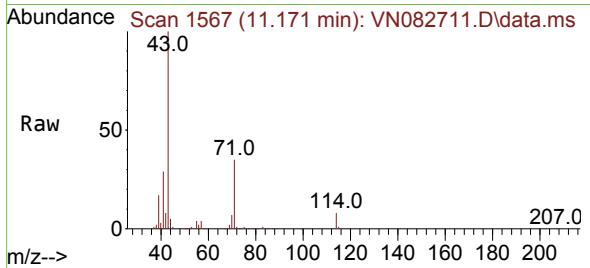




#59  
2-Hexanone  
Concen: 49.880 ug/l  
RT: 11.171 min Scan# 11  
Delta R.T. -0.029 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

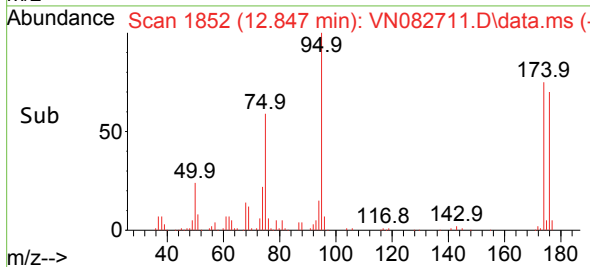
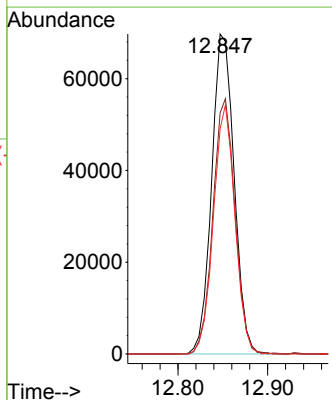
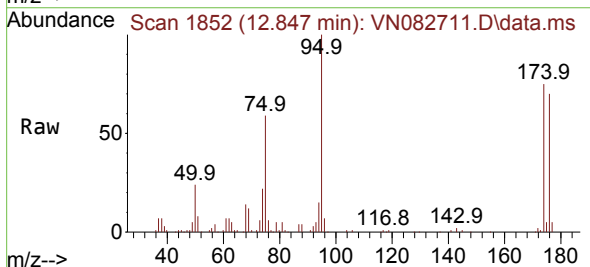
Instrument :  
MSVOA\_N  
ClientSampleId :

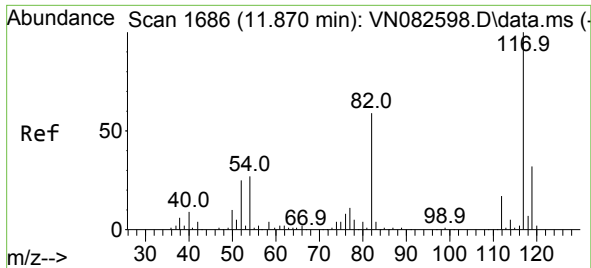
Tgt Ion: 43 Resp: 129364  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.6 73.8#



#62  
4-Bromofluorobenzene  
Concen: 49.730 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

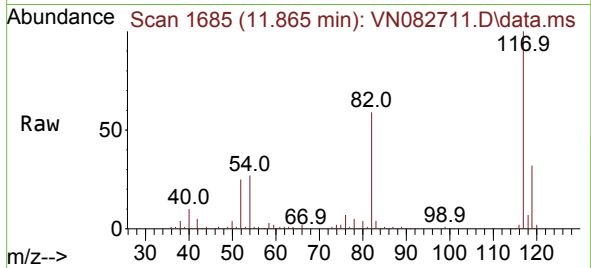
Tgt Ion: 95 Resp: 121211  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 159.2  
176 74.5 0.0 147.6



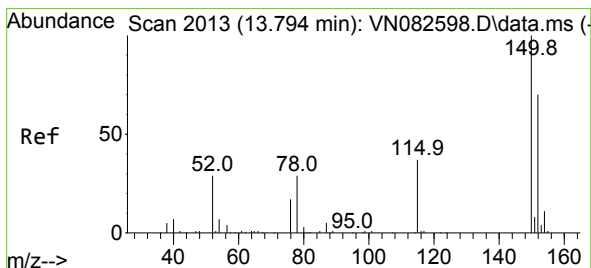
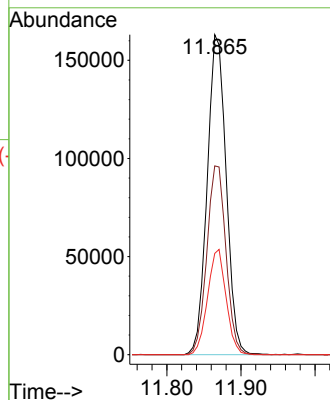
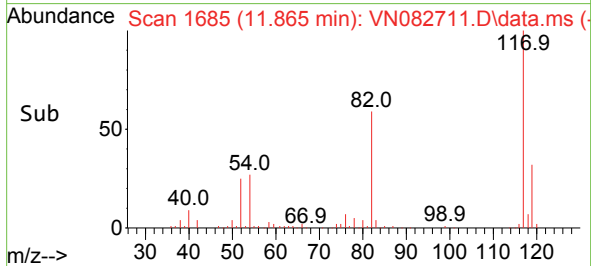


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Instrument :  
MSVOA\_N  
ClientSampleId :

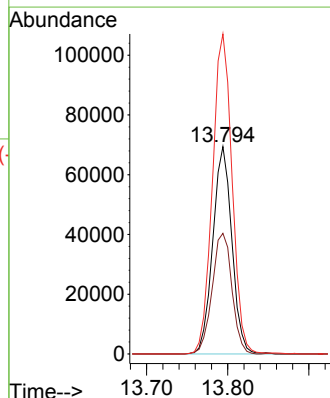
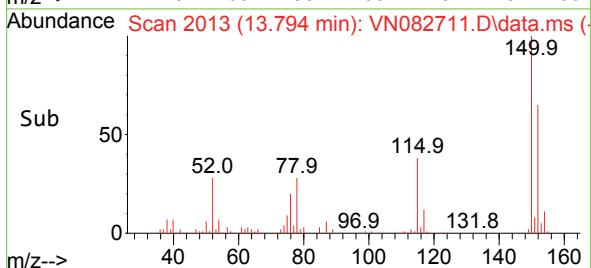
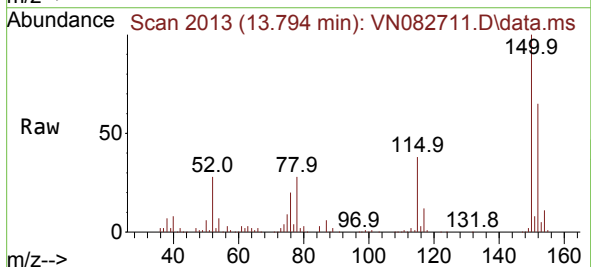


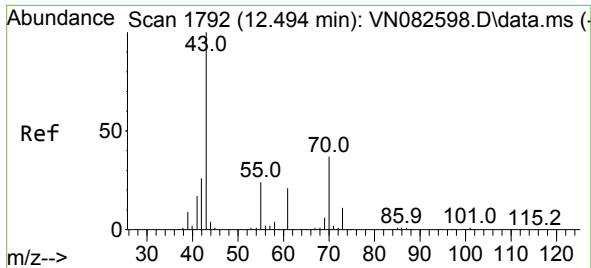
Tgt Ion:117 Resp: 289991  
Ion Ratio Lower Upper  
117 100  
82 59.0 47.5 71.3  
119 31.6 25.6 38.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.000 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

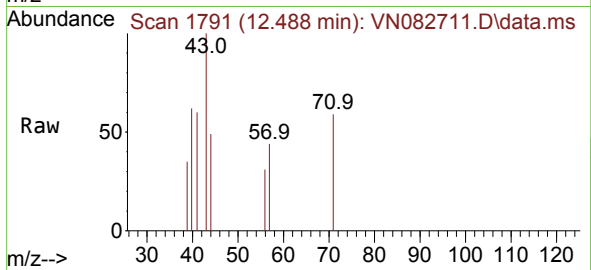
Tgt Ion:152 Resp: 113252  
Ion Ratio Lower Upper  
152 100  
115 60.4 30.6 91.6  
150 158.9 0.0 348.6



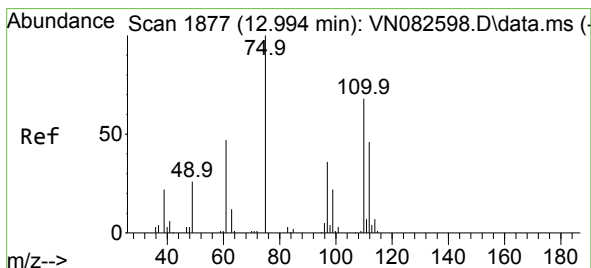
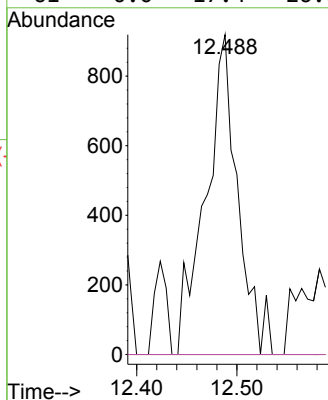
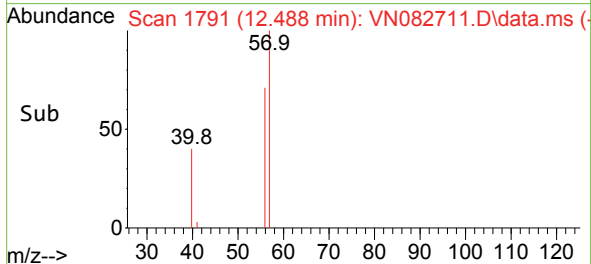


#74  
N-amy1 acetate  
Concen: 0.447 ug/l  
RT: 12.488 min Scan# 1791  
Delta R.T. -0.006 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

Instrument :  
MSVOA\_N  
ClientSampleId :

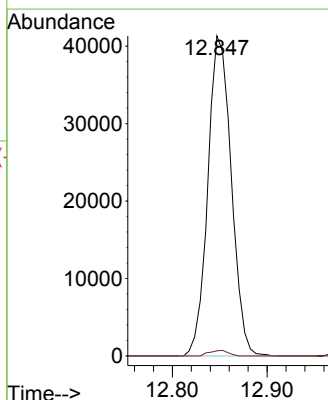
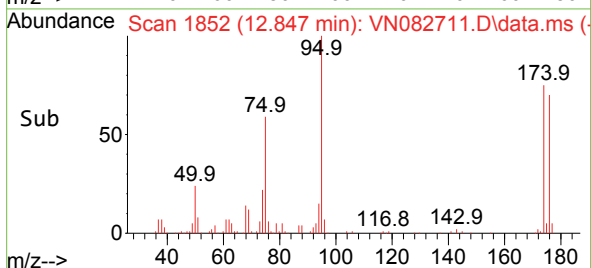
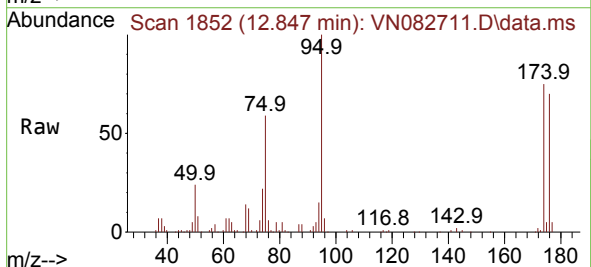


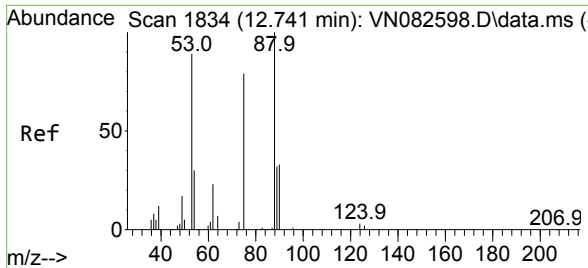
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2052  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 29.8 44.6#  |
| 55 0.0      | 18.7 28.1#  |
| 61 0.0      | 17.4 26.0#  |



#76  
1,2,3-Trichloropropane  
Concen: 25.663 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN082711.D  
Acq: 25 Jun 2024 12:31

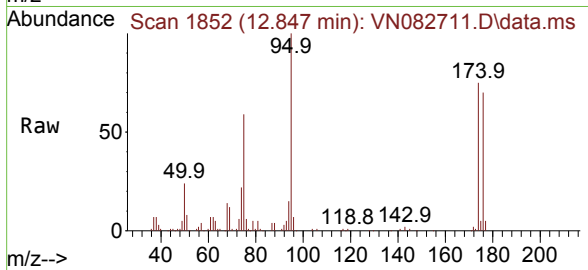
|             |              |
|-------------|--------------|
| Tgt Ion: 75 | Resp: 71087  |
| Ion Ratio   | Lower Upper  |
| 75 100      |              |
| 77 1.4      | 110.9 332.6# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 61.398 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VN082711.D  
 Acq: 25 Jun 2024 12:31

Instrument :  
 MSVOA\_N  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 88.4  | 132.6# |
| 89      | 0.0   | 36.3  | 54.5#  |

