

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081324\  
 Data File : VN083268.D  
 Acq On : 13 Aug 2024 19:21  
 Operator : JC\MD  
 Sample : PB162644TB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 14 01:48:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 08 06:30:41 2024  
 Response via : Initial Calibration

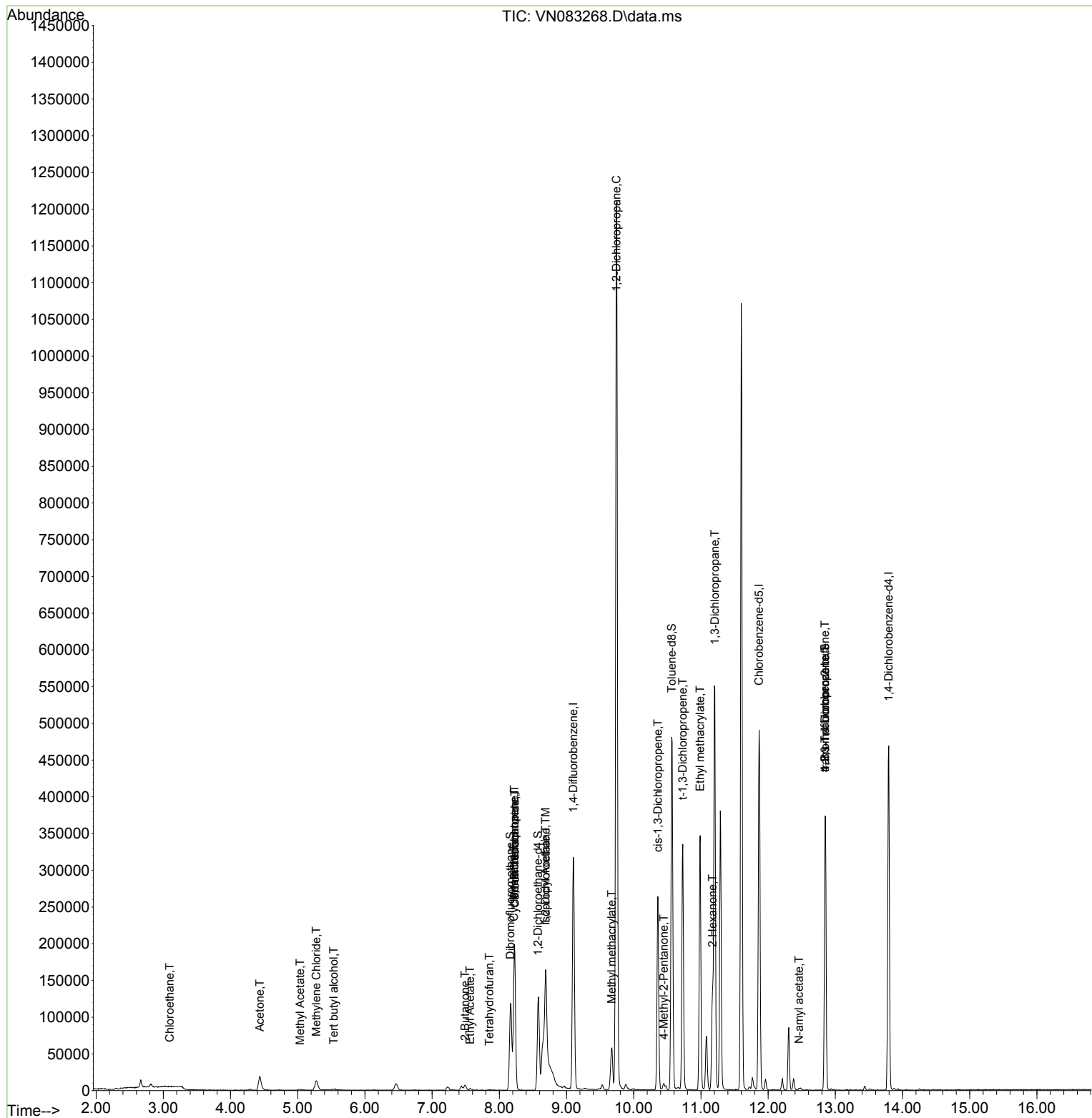
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 133811   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 267379   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 279494   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 123397   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 108638   | 57.038   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 114.080% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 86330    | 51.728   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 103.460% |          |
| 50) Toluene-d8                | 10.565 | 98    | 332584   | 53.423   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 106.840% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 139503   | 57.478   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery | = 114.960% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 6) Chloroethane               | 3.095  | 64    | 202      | 0.204    | ug/l #     | 41       |
| 11) Tert butyl alcohol        | 5.536  | 59    | 2243     | 5.667    | ug/l #     | 71       |
| 16) Acetone                   | 4.436  | 43    | 36615    | 49.129   | ug/l       | 93       |
| 18) Methyl Acetate            | 5.036  | 43    | 2963     | 1.334    | ug/l #     | 88       |
| 20) Methylene Chloride        | 5.277  | 84    | 9950     | 5.801    | ug/l       | 81       |
| 25) 2-Butanone                | 7.489  | 43    | 11712    | 10.235   | ug/l #     | 87       |
| 29) Tetrahydrofuran           | 7.853  | 42    | 473      | 0.639    | ug/l #     | 59       |
| 31) Cyclohexane               | 8.218  | 56    | 3266     | 1.157    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 12420    | 4.920    | ug/l #     | 52       |
| 37) Ethyl Acetate             | 7.565  | 43    | 3831     | 1.355    | ug/l #     | 74       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 15689    | 5.517    | ug/l #     | 16       |
| 42) 1,2-Dichloroethane        | 8.688  | 62    | 1175     | 0.429    | ug/l #     | 78       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 320021   | 66.590   | ug/l #     | 77       |
| 45) 1,2-Dichloropropane       | 9.741  | 63    | 1294     | 0.725    | ug/l #     | 44       |
| 48) Methyl methacrylate       | 9.671  | 41    | 4311     | 1.845    | ug/l #     | 54       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 5856     | 2.191    | ug/l       | 95       |
| 53) t-1,3-Dichloropropene     | 10.730 | 75    | 875      | 0.297    | ug/l #     | 84       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 45206    | 14.421   | ug/l #     | 55       |
| 56) Ethyl methacrylate        | 10.988 | 69    | 890      | 0.277    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.206 | 76    | 5927     | 1.953    | ug/l #     | 43       |
| 59) 2-Hexanone                | 11.171 | 43    | 111210   | 53.777   | ug/l #     | 28       |
| 74) N-amyl acetate            | 12.459 | 43    | 2850     | 0.565    | ug/l #     | 49       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 74695    | 27.580   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 74695    | 59.994   | ug/l #     | 6        |
| -----                         |        |       |          |          |            |          |

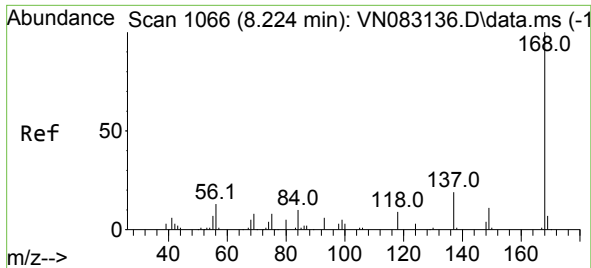
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

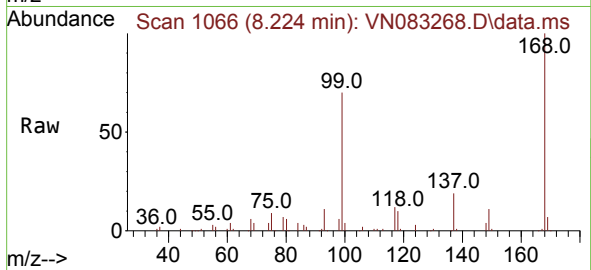
Quant Time: Aug 14 01:48:58 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 08 06:30:41 2024  
Response via : Initial Calibration



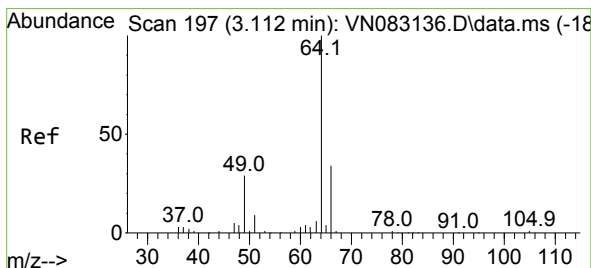
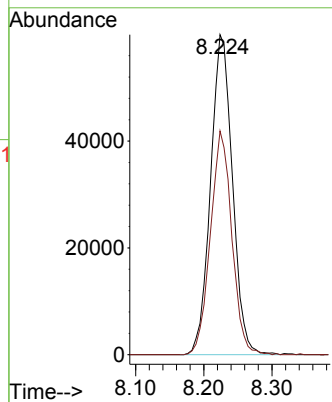
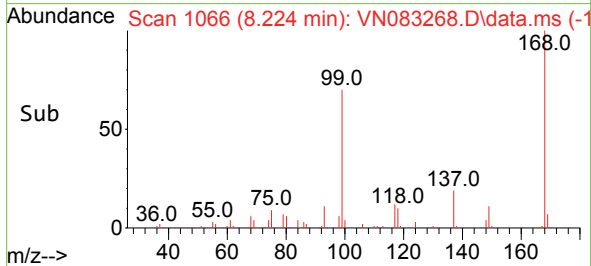


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Instrument :  
MSVOA\_N  
ClientSampleId :

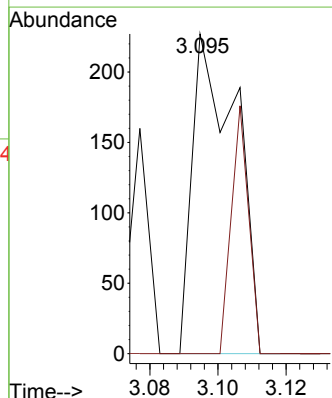
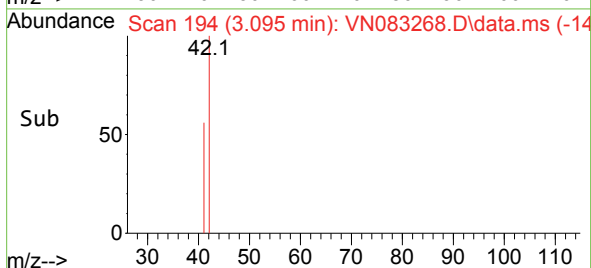
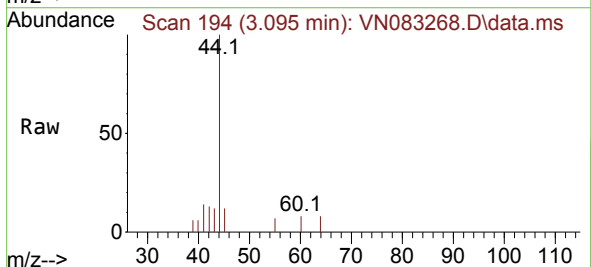


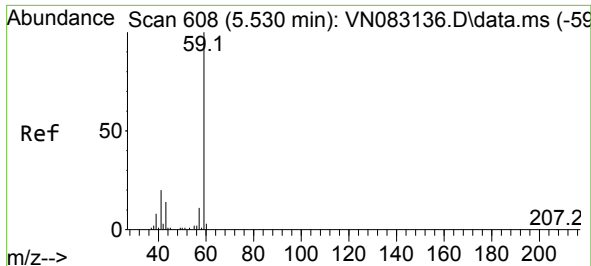
Tgt Ion:168 Resp: 133811  
Ion Ratio Lower Upper  
168 100  
99 69.9 48.2 72.4



#6  
Chloroethane  
Concen: 0.204 ug/l  
RT: 3.095 min Scan# 194  
Delta R.T. -0.018 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Tgt Ion: 64 Resp: 202  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.6 40.0#





#11

Tert butyl alcohol

Concen: 5.667 ug/l

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

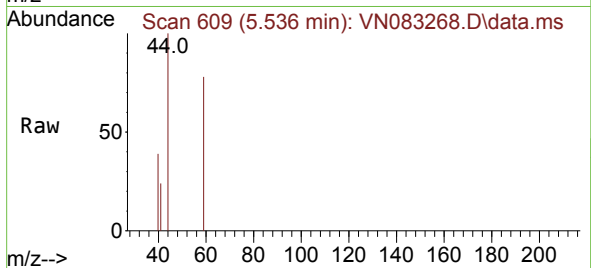
Lab File: VN083268.D

Acq: 13 Aug 2024 19:21

Instrument :

MSVOA\_N

ClientSampleId :

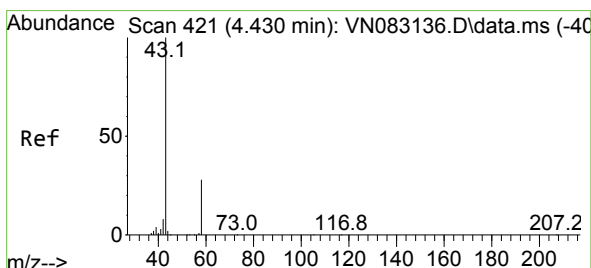
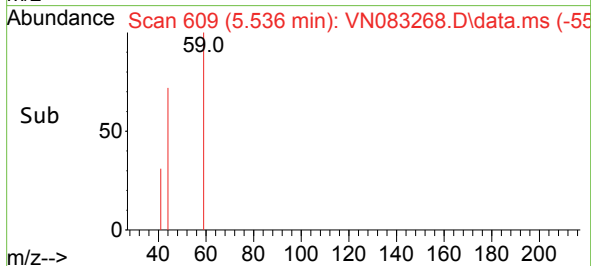
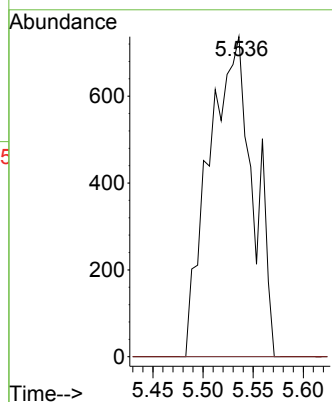


Tgt Ion: 59 Resp: 2243

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#16

Acetone

Concen: 49.129 ug/l

RT: 4.436 min Scan# 422

Delta R.T. 0.006 min

Lab File: VN083268.D

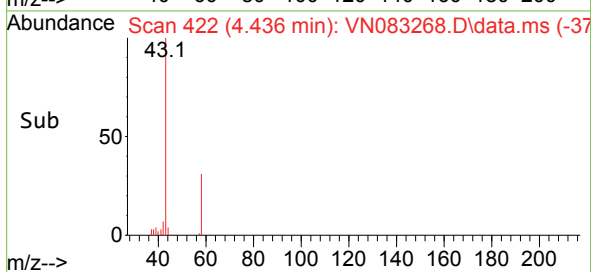
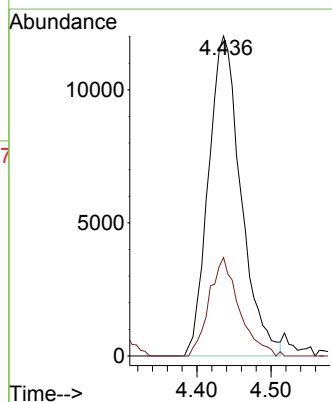
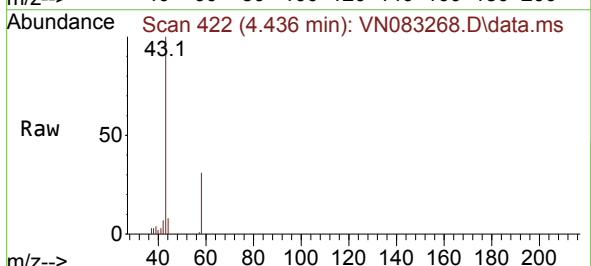
Acq: 13 Aug 2024 19:21

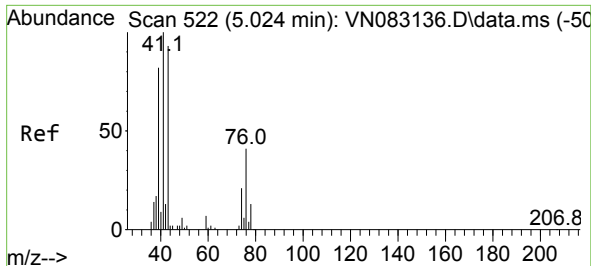
Tgt Ion: 43 Resp: 36615

Ion Ratio Lower Upper

43 100

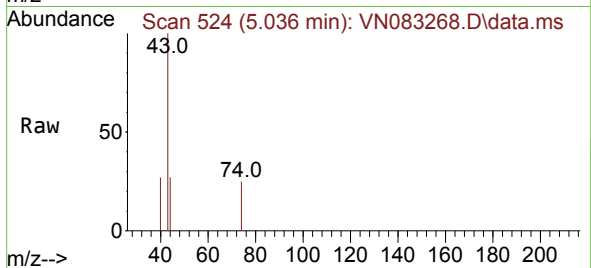
58 30.7 21.8 32.6



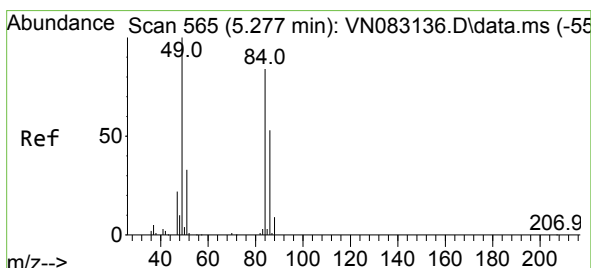
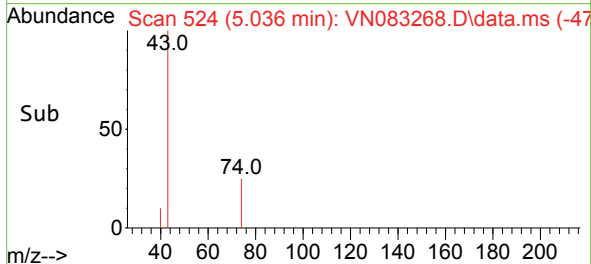
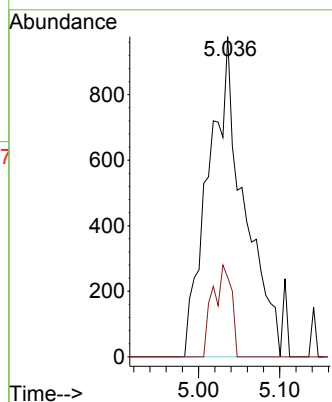


#18  
Methyl Acetate  
Concen: 1.334 ug/l  
RT: 5.036 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Instrument :  
MSVOA\_N  
ClientSampleId :

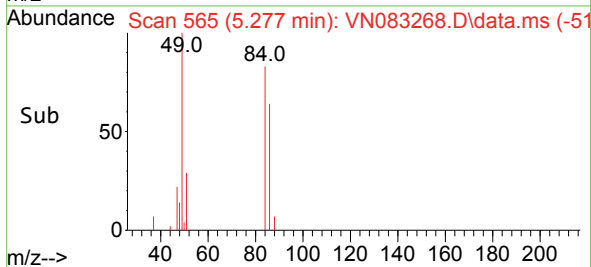
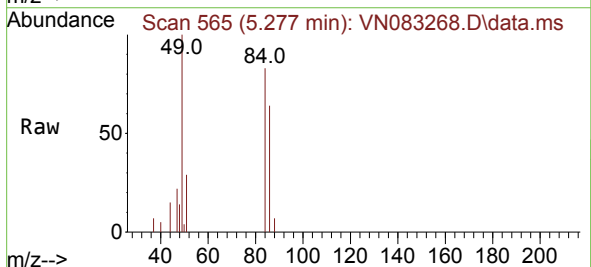
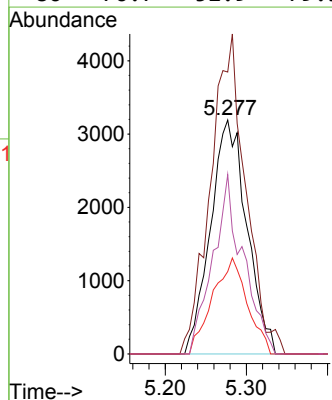


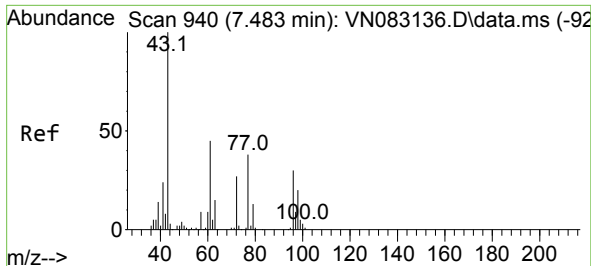
Tgt Ion: 43 Resp: 2963  
Ion Ratio Lower Upper  
43 100  
74 15.0 16.3 24.5#



#20  
Methylene Chloride  
Concen: 5.801 ug/l  
RT: 5.277 min Scan# 565  
Delta R.T. 0.000 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Tgt Ion: 84 Resp: 9950  
Ion Ratio Lower Upper  
84 100  
49 120.5 119.6 179.4  
51 35.2 34.8 52.2  
86 76.7 52.9 79.3

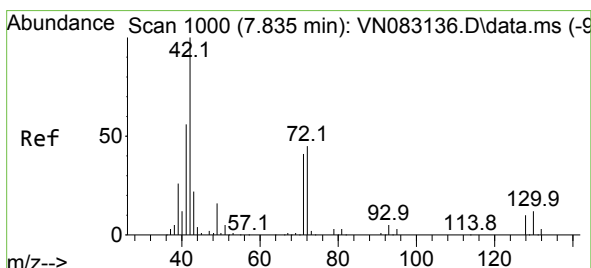
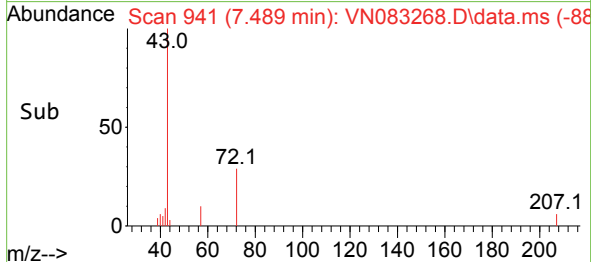
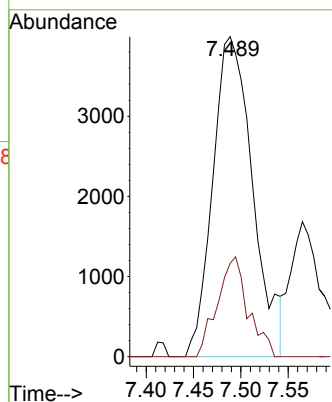
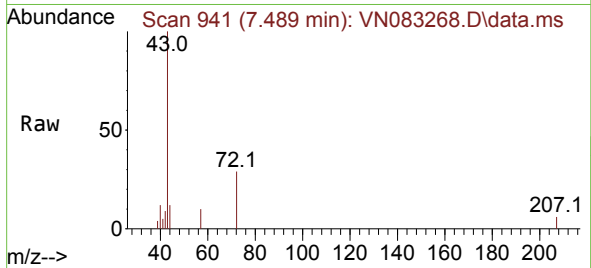




#25  
2-Butanone  
Concen: 10.235 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

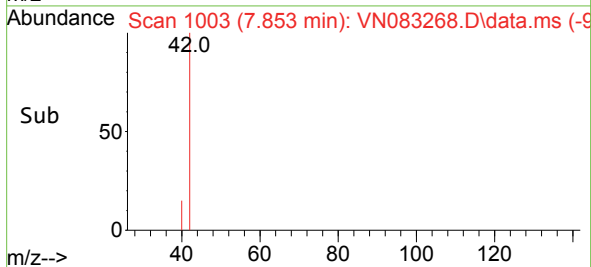
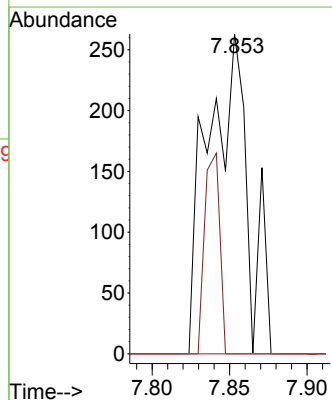
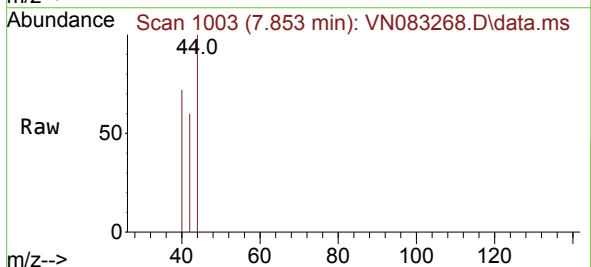
Instrument :  
MSVOA\_N  
ClientSampleId :

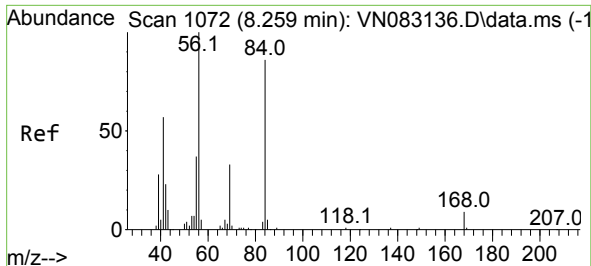
Tgt Ion: 43 Resp: 11712  
Ion Ratio Lower Upper  
43 100  
72 29.2 18.2 27.2#



#29  
Tetrahydrofuran  
Concen: 0.639 ug/l  
RT: 7.853 min Scan# 1003  
Delta R.T. 0.018 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

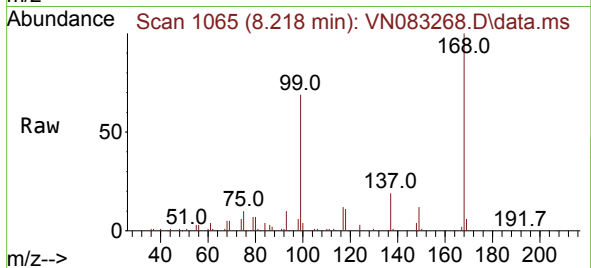
Tgt Ion: 42 Resp: 473  
Ion Ratio Lower Upper  
42 100  
72 23.7 30.0 45.0#  
71 0.0 28.3 42.5#



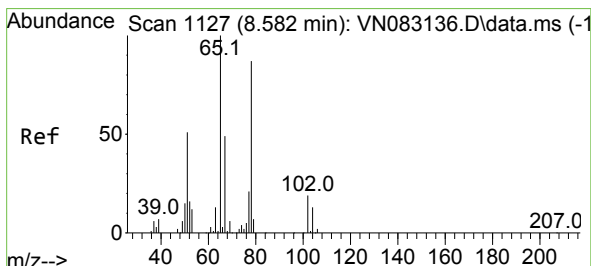
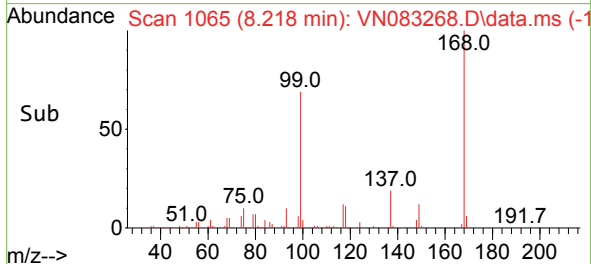
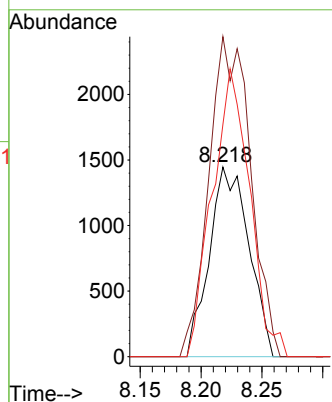


#31  
Cyclohexane  
Concen: 1.157 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.041 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Instrument :  
MSVOA\_N  
ClientSampleId :

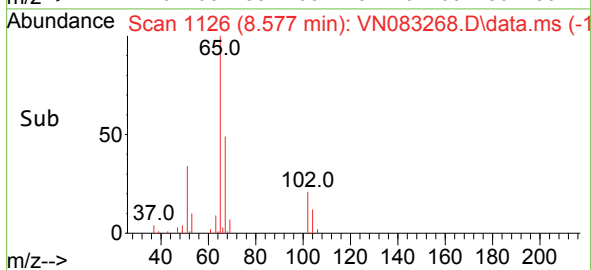
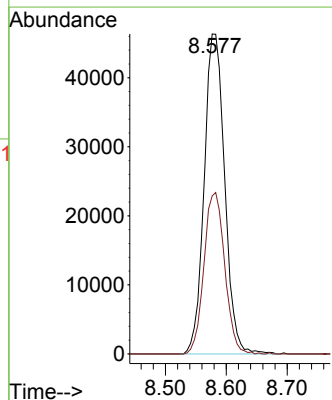
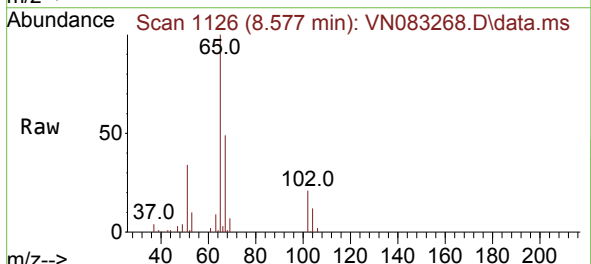


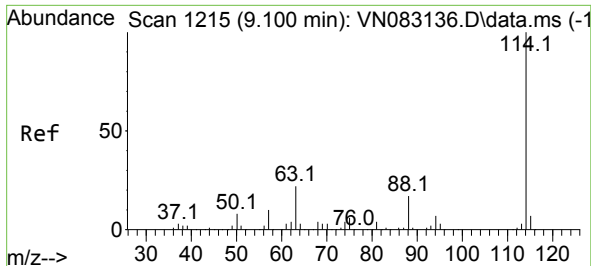
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 168.7 | 24.5  | 36.7# |
| 84      | 122.5 | 66.0  | 99.0# |



#33  
1,2-Dichloroethane-d4  
Concen: 57.038 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.006 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 51.0  | 0.0   | 104.4 |

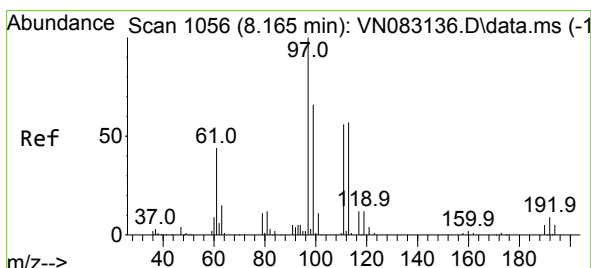
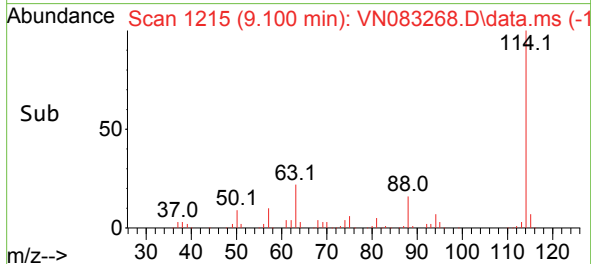
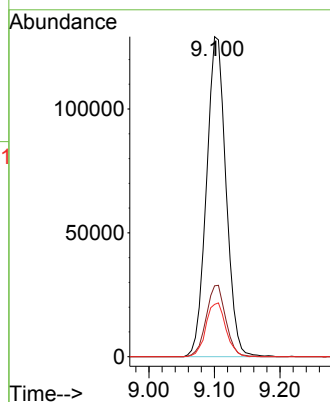
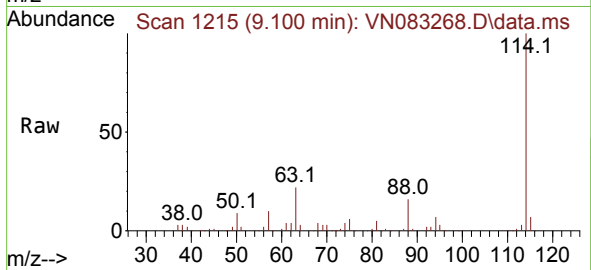




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 114  
 Delta R.T. 0.000 min  
 Lab File: VN083268.D  
 Acq: 13 Aug 2024 19:21

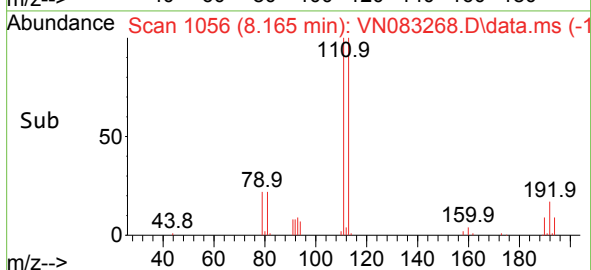
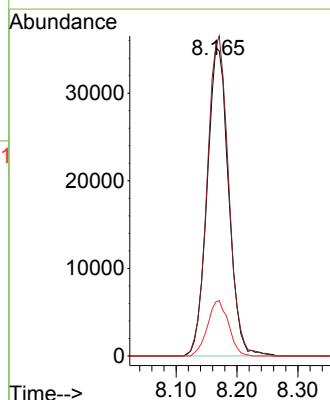
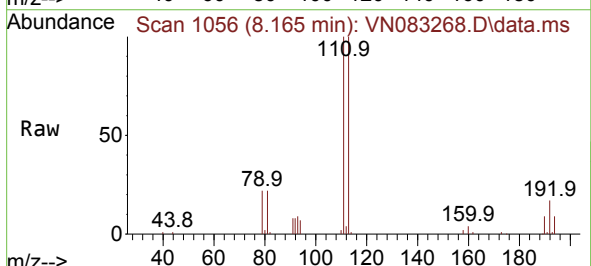
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion:114 Resp: 267379  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 44.6  
 88 16.4 0.0 31.4

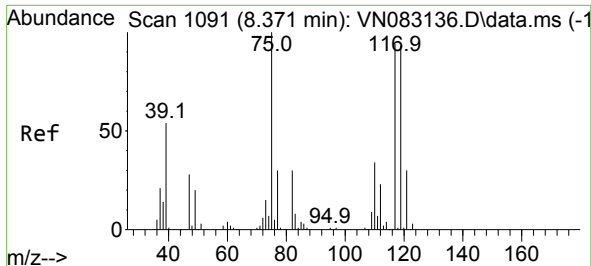


#35  
 Dibromofluoromethane  
 Concen: 51.728 ug/l  
 RT: 8.165 min Scan# 1056  
 Delta R.T. 0.000 min  
 Lab File: VN083268.D  
 Acq: 13 Aug 2024 19:21

Tgt Ion:113 Resp: 86330  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 82.4 123.6  
 192 17.5 14.9 22.3

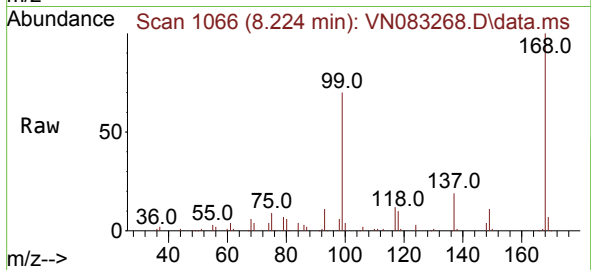




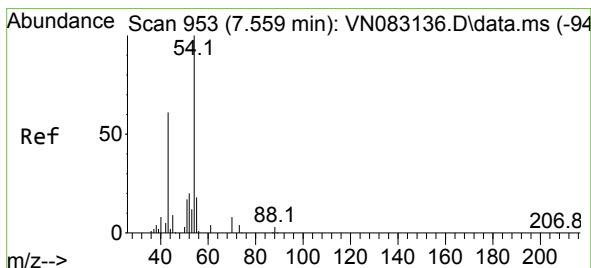
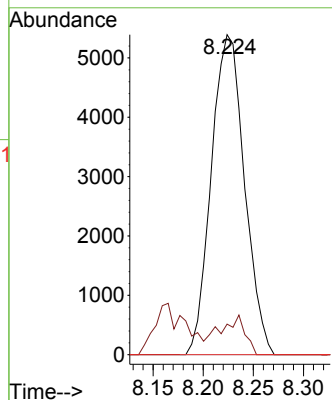
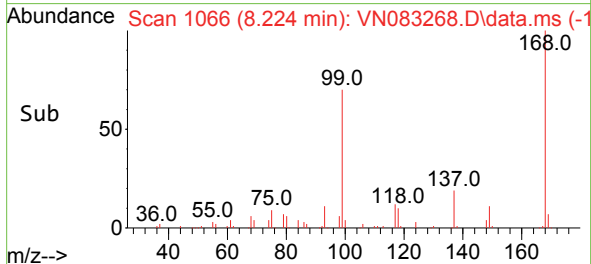


#36  
1,1-Dichloropropene  
Concen: 4.920 ug/l  
RT: 8.224 min Scan# 1091  
Delta R.T. -0.147 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Instrument :  
MSVOA\_N  
ClientSampleId :

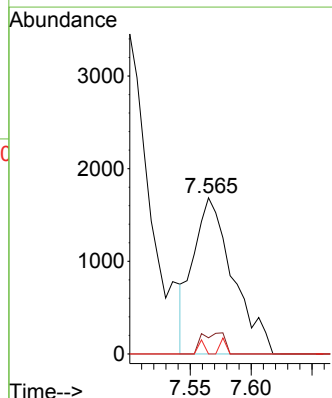
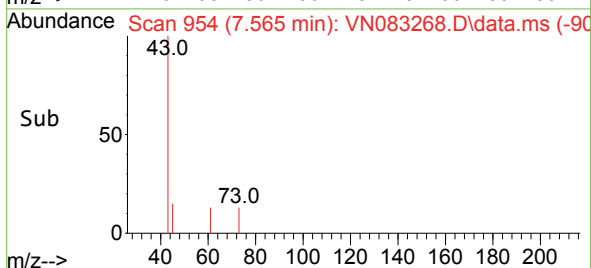
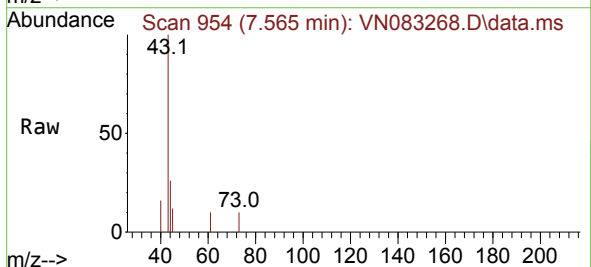


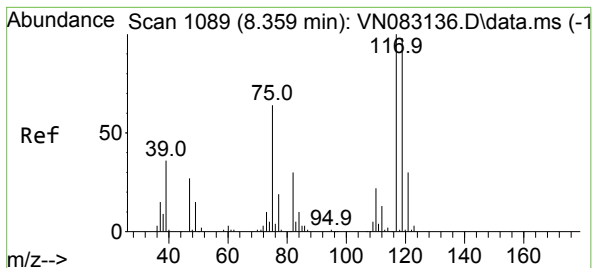
Tgt Ion: 75 Resp: 12420  
Ion Ratio Lower Upper  
75 100  
110 9.6 16.3 48.9#  
77 0.0 24.6 37.0#



#37  
Ethyl Acetate  
Concen: 1.355 ug/l  
RT: 7.565 min Scan# 954  
Delta R.T. 0.006 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Tgt Ion: 43 Resp: 3831  
Ion Ratio Lower Upper  
43 100  
61 0.0 9.3 13.9#  
70 1.4 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 5.517 ug/l

RT: 8.230 min Scan# 110

Delta R.T. -0.129 min

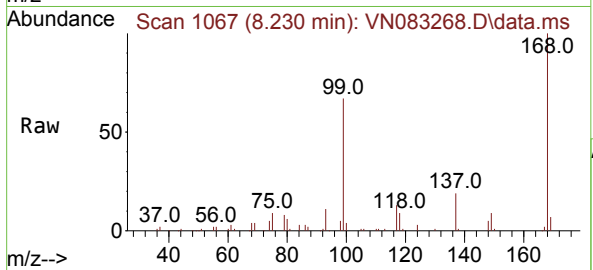
Lab File: VN083268.D

Acq: 13 Aug 2024 19:21

Instrument :

MSVOA\_N

ClientSampleId :



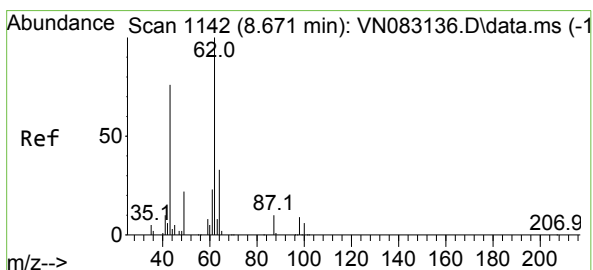
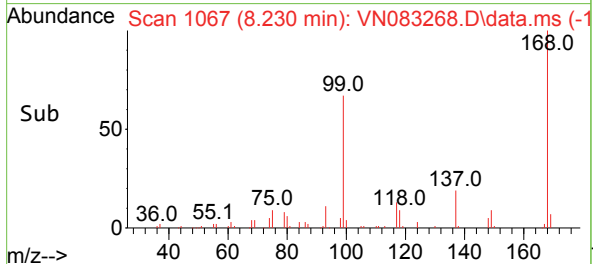
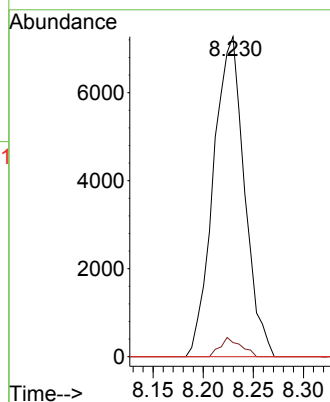
Tgt Ion:117 Resp: 15689

Ion Ratio Lower Upper

117 100

119 4.4 74.9 112.3#

121 0.0 24.3 36.5#



#42

1,2-Dichloroethane

Concen: 0.429 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN083268.D

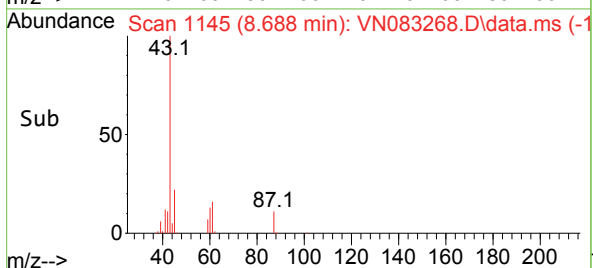
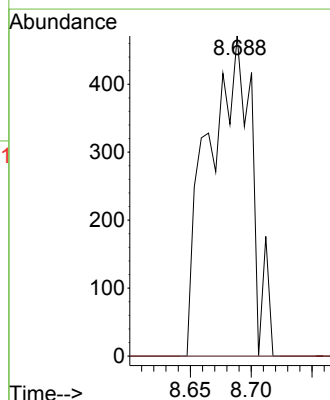
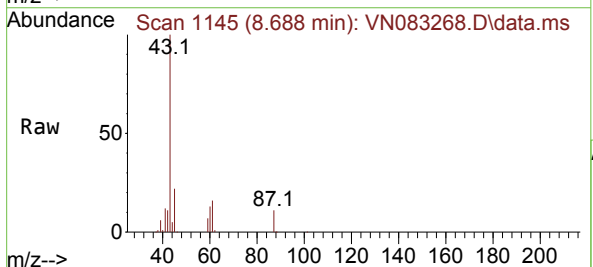
Acq: 13 Aug 2024 19:21

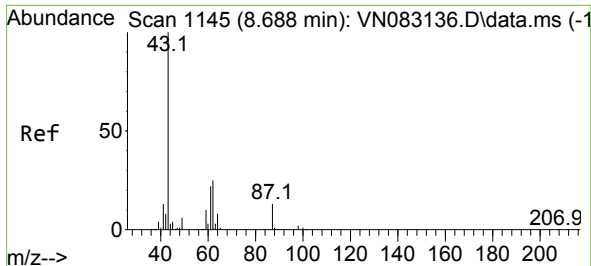
Tgt Ion: 62 Resp: 1175

Ion Ratio Lower Upper

62 100

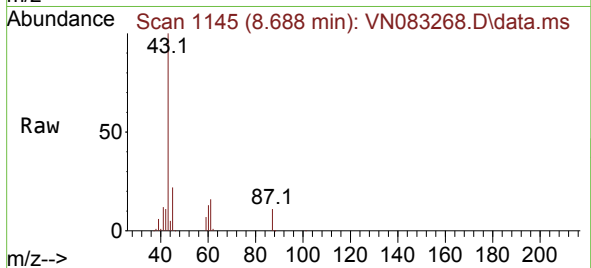
98 0.0 0.0 15.8



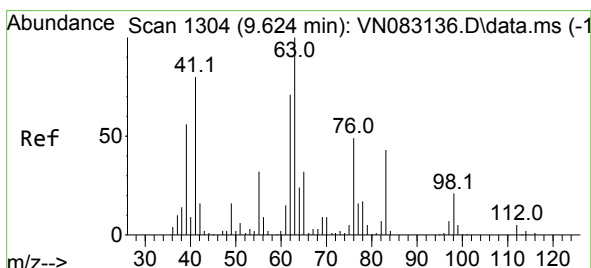
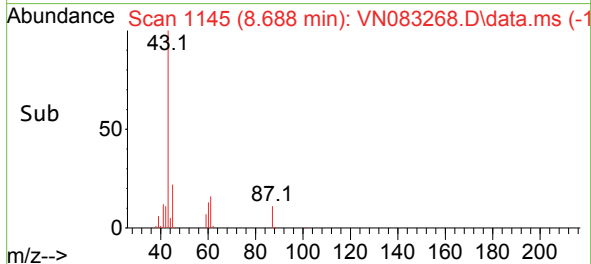
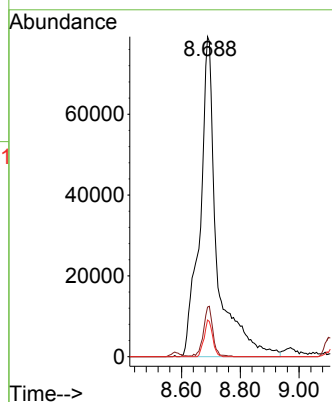


#43  
Isopropyl Acetate  
Concen: 66.590 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.000 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Instrument :  
MSVOA\_N  
ClientSampleId :

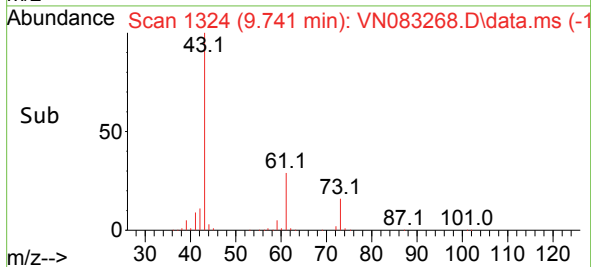
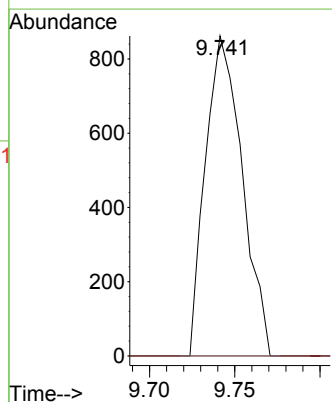
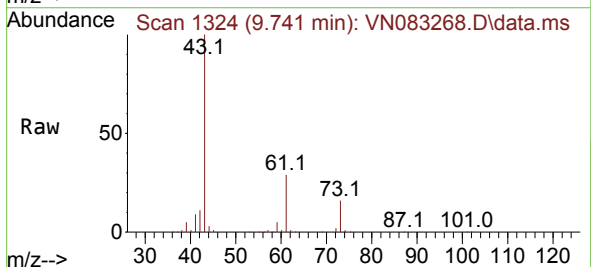


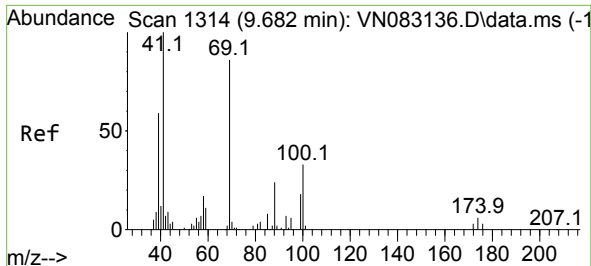
Tgt Ion: 43 Resp: 320021  
Ion Ratio Lower Upper  
43 100  
61 8.7 17.8 26.6#  
87 5.7 8.2 12.2#



#45  
1,2-Dichloropropane  
Concen: 0.725 ug/l  
RT: 9.741 min Scan# 1324  
Delta R.T. 0.118 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Tgt Ion: 63 Resp: 1294  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.4 36.6#





#48

Methyl methacrylate

Concen: 1.845 ug/l

RT: 9.671 min Scan# 11

Delta R.T. -0.012 min

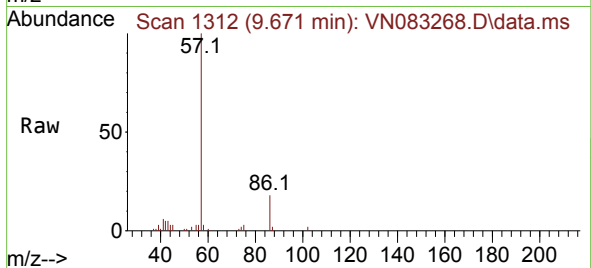
Lab File: VN083268.D

Acq: 13 Aug 2024 19:21

Instrument :

MSVOA\_N

ClientSampleId :



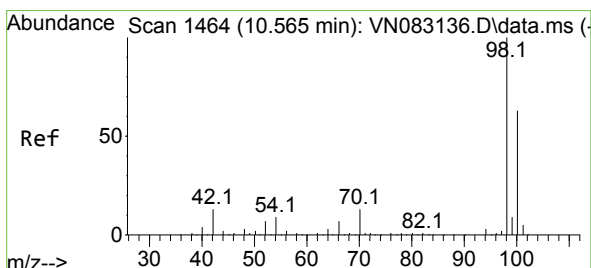
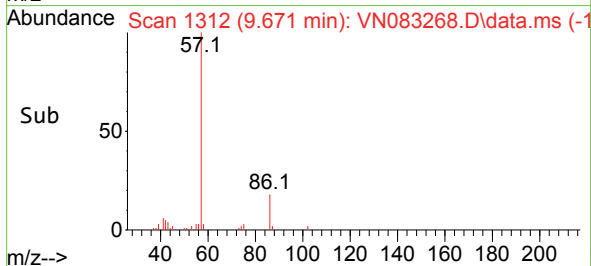
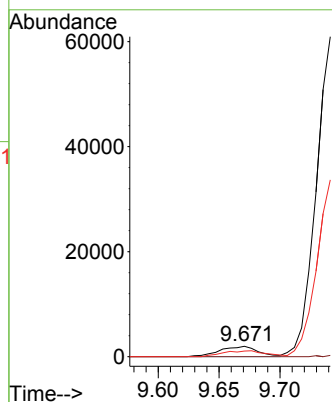
Tgt Ion: 41 Resp: 4311

Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

39 64.2 50.3 75.5



#50

Toluene-d8

Concen: 53.423 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083268.D

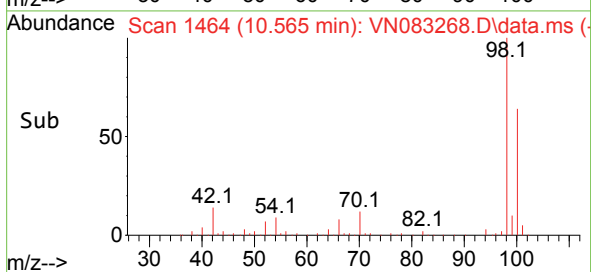
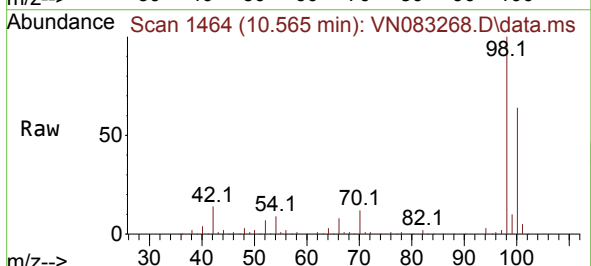
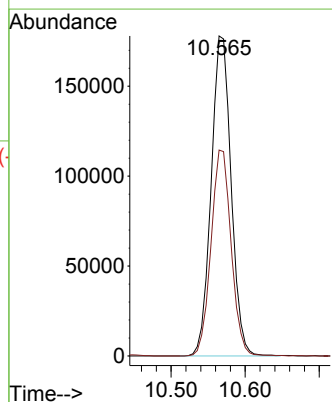
Acq: 13 Aug 2024 19:21

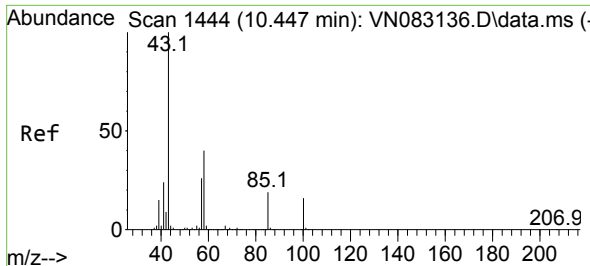
Tgt Ion: 98 Resp: 332584

Ion Ratio Lower Upper

98 100

100 64.9 51.5 77.3

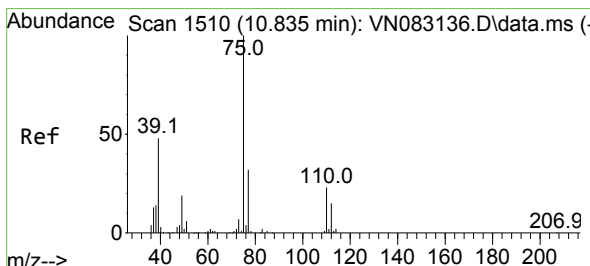
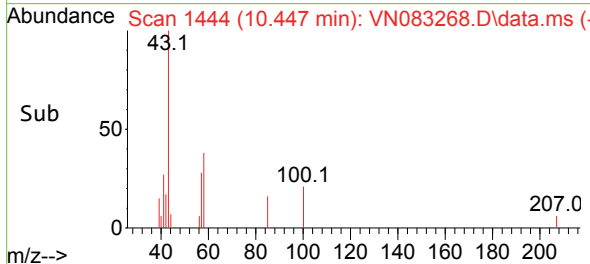
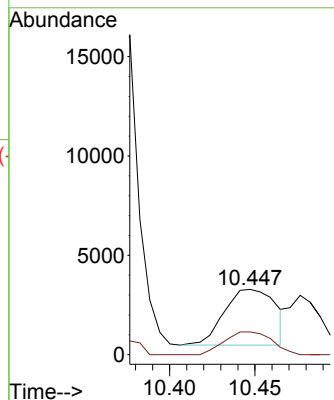
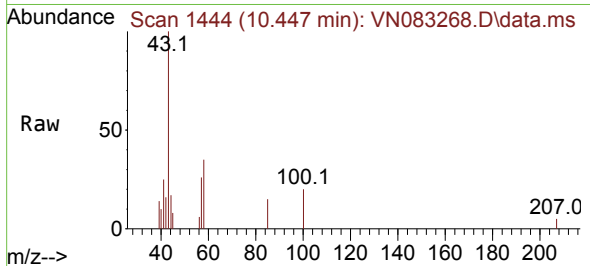




#51  
4-Methyl-2-Pentanone  
Concen: 2.191 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

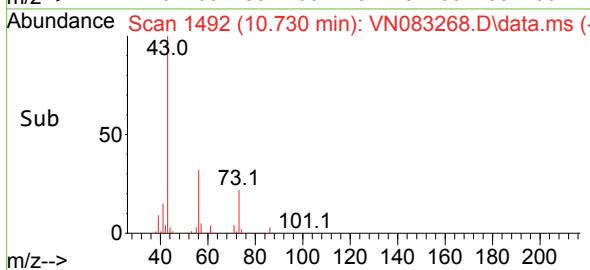
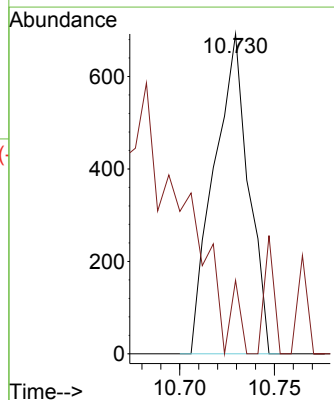
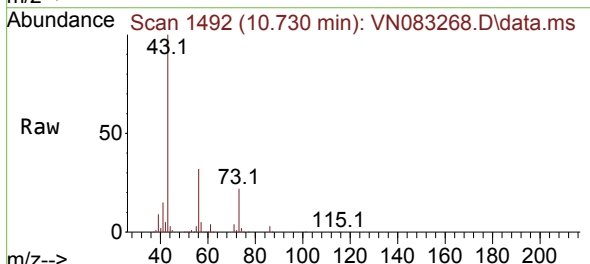
Instrument :  
MSVOA\_N  
ClientSampleId :

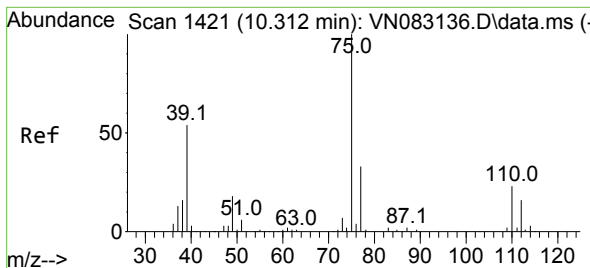
Tgt Ion: 43 Resp: 5856  
Ion Ratio Lower Upper  
43 100  
58 38.1 28.2 42.4



#53  
t-1,3-Dichloropropene  
Concen: 0.297 ug/l  
RT: 10.730 min Scan# 1492  
Delta R.T. -0.106 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Tgt Ion: 75 Resp: 875  
Ion Ratio Lower Upper  
75 100  
77 23.0 25.7 38.5#

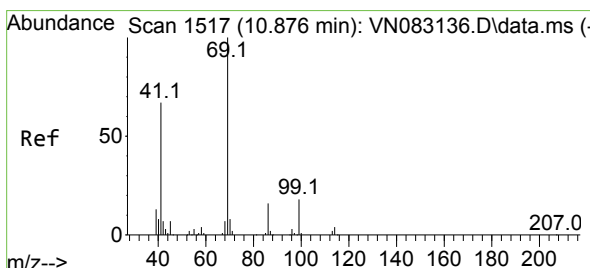
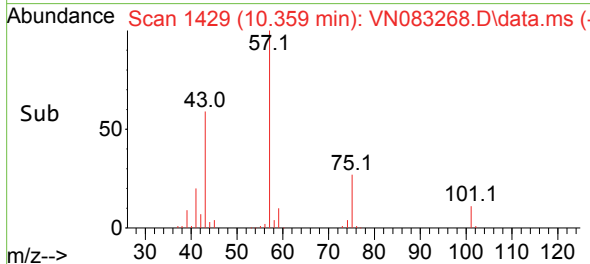
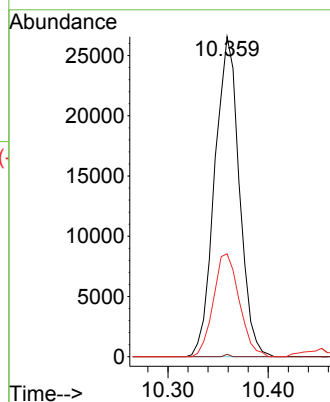
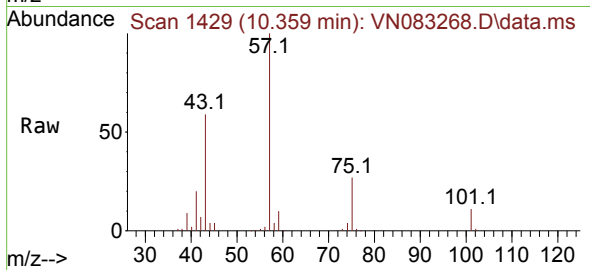




#54  
 cis-1,3-Dichloropropene  
 Concen: 14.421 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.047 min  
 Lab File: VN083268.D  
 Acq: 13 Aug 2024 19:21

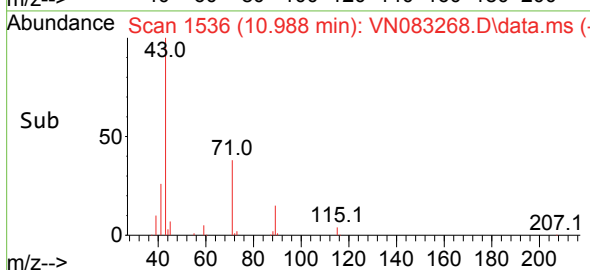
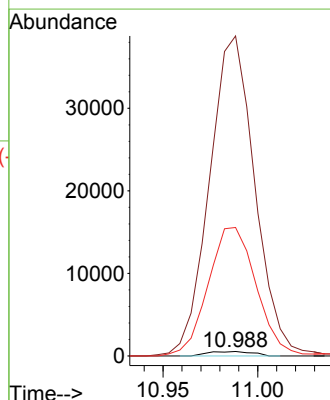
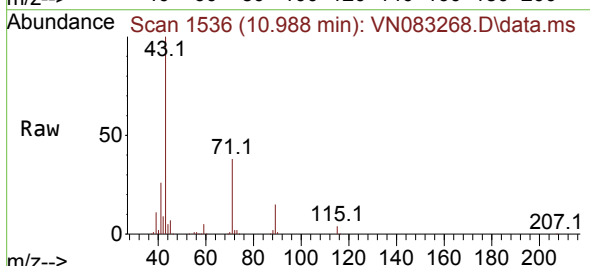
Instrument :  
 MSVOA\_N  
 ClientSampleId :

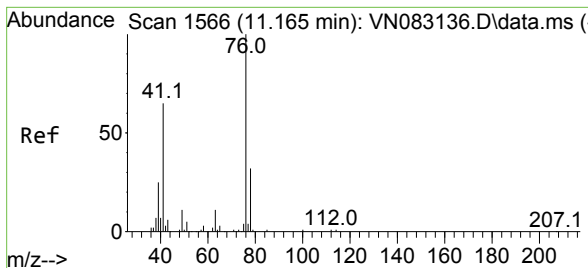
Tgt Ion: 75 Resp: 45206  
 Ion Ratio Lower Upper  
 75 100  
 77 0.8 24.3 36.5#  
 39 32.2 50.5 75.7#



#56  
 Ethyl methacrylate  
 Concen: 0.277 ug/l  
 RT: 10.988 min Scan# 1536  
 Delta R.T. 0.112 min  
 Lab File: VN083268.D  
 Acq: 13 Aug 2024 19:21

Tgt Ion: 69 Resp: 890  
 Ion Ratio Lower Upper  
 69 100  
 41 7299.4 63.4 95.2#  
 39 3116.9 37.4 56.0#

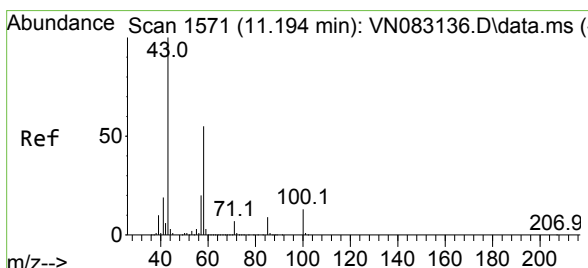
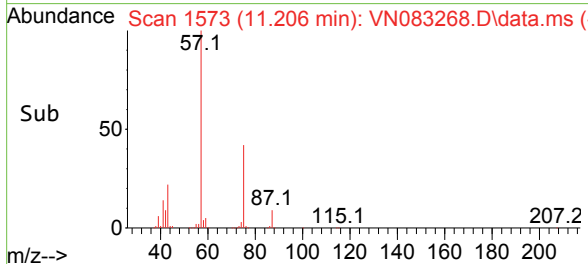
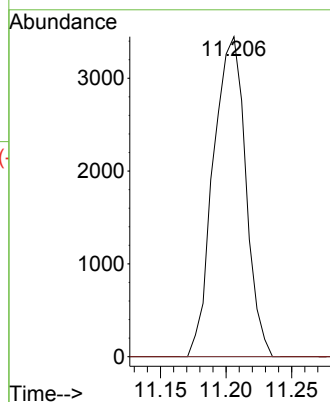
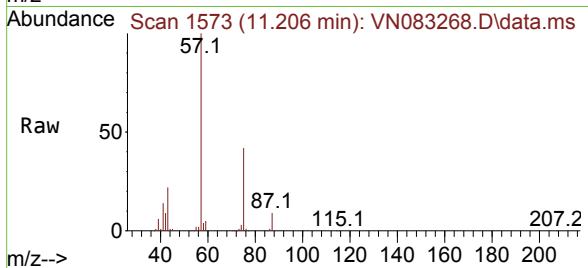




#57  
1,3-Dichloropropane  
Concen: 1.953 ug/l  
RT: 11.206 min Scan# 11  
Delta R.T. 0.041 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

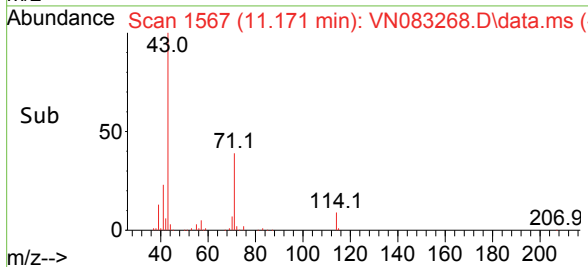
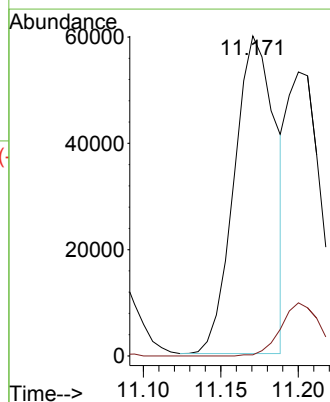
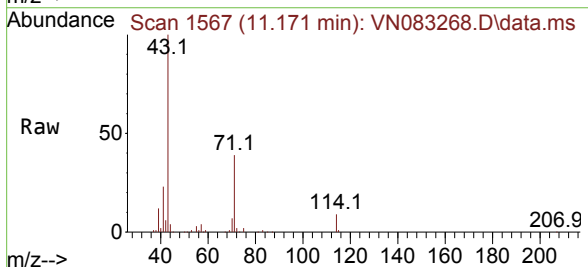
Instrument :  
MSVOA\_N  
ClientSampleId :

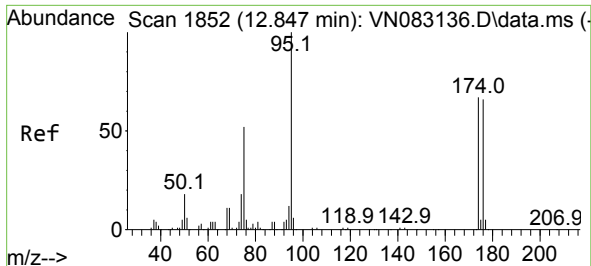
Tgt Ion: 76 Resp: 5927  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.6 38.4#



#59  
2-Hexanone  
Concen: 53.777 ug/l  
RT: 11.171 min Scan# 1567  
Delta R.T. -0.023 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Tgt Ion: 43 Resp: 111210  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.6 73.8#

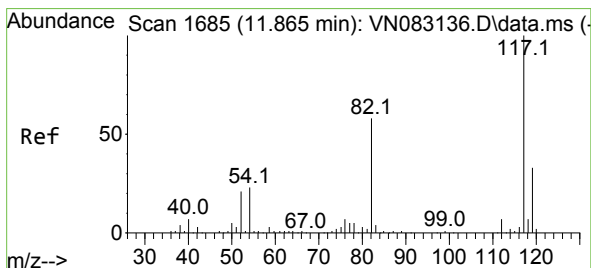
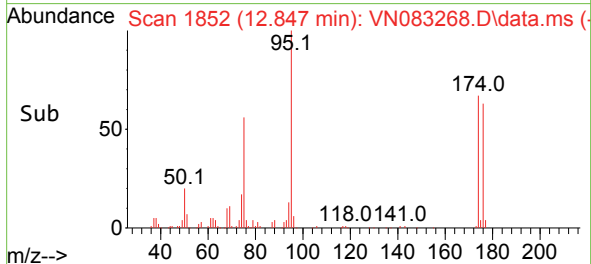
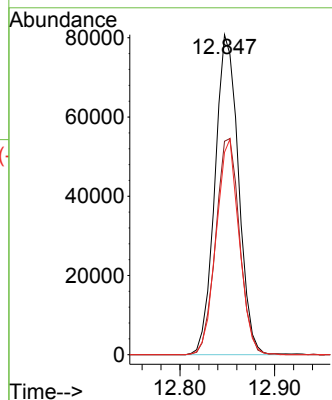
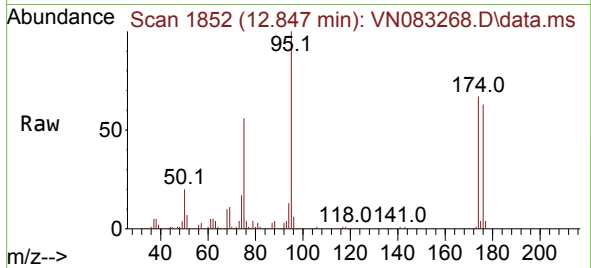




#62  
4-Bromofluorobenzene  
Concen: 57.478 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

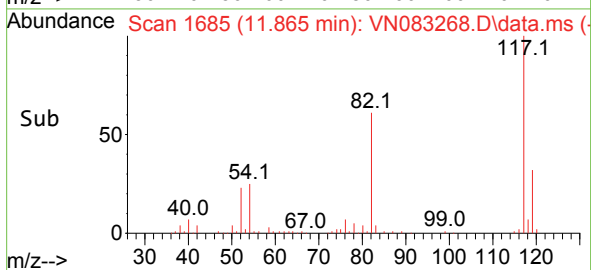
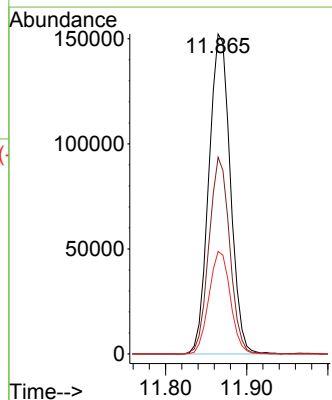
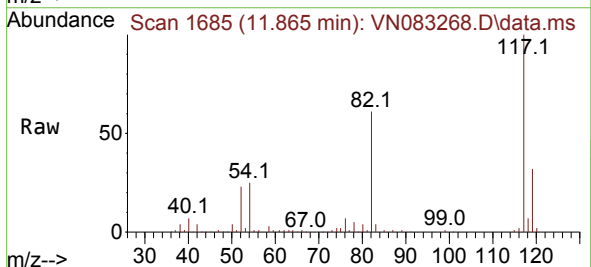
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 95 Resp: 139503  
Ion Ratio Lower Upper  
95 100  
174 68.6 0.0 159.2  
176 65.8 0.0 147.6

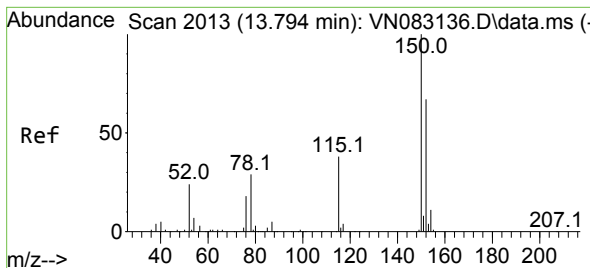


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN083268.D  
Acq: 13 Aug 2024 19:21

Tgt Ion: 117 Resp: 279494  
Ion Ratio Lower Upper  
117 100  
82 61.5 47.5 71.3  
119 32.0 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

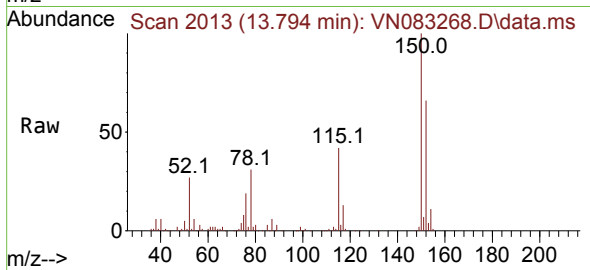
Lab File: VN083268.D

Acq: 13 Aug 2024 19:21

Instrument :

MSVOA\_N

ClientSampleId :



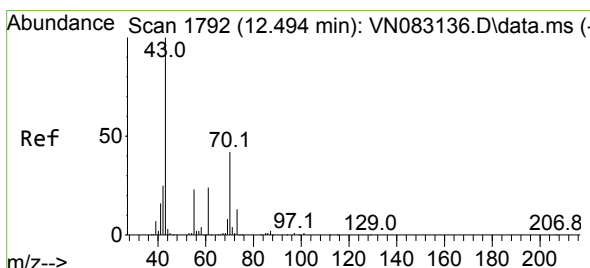
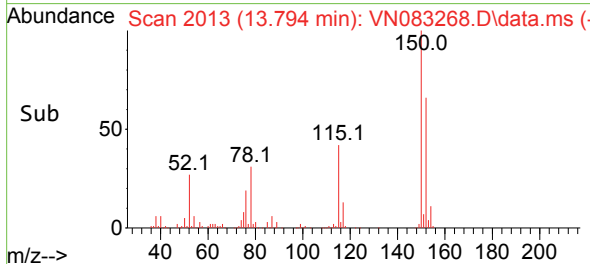
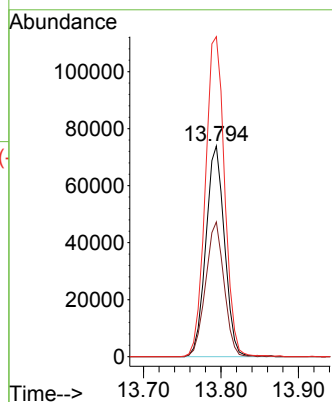
Tgt Ion:152 Resp: 123397

Ion Ratio Lower Upper

152 100

115 63.6 30.6 91.6

150 156.6 0.0 348.6



#74

N-ethyl acetate

Concen: 0.565 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.035 min

Lab File: VN083268.D

Acq: 13 Aug 2024 19:21

Tgt Ion: 43 Resp: 2850

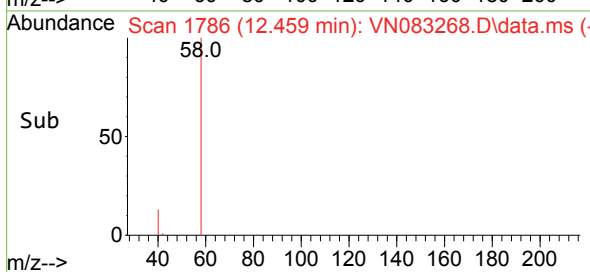
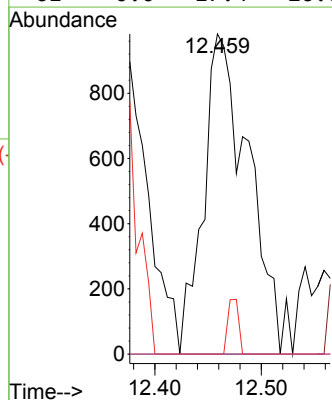
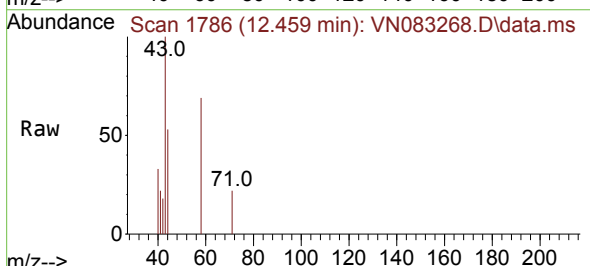
Ion Ratio Lower Upper

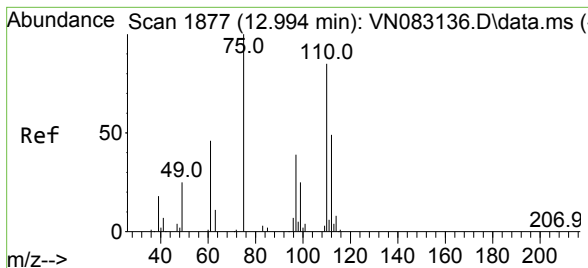
43 100

70 0.0 29.8 44.6#

55 4.1 18.7 28.1#

61 0.0 17.4 26.0#





#76

1,2,3-Trichloropropane

Concen: 27.580 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

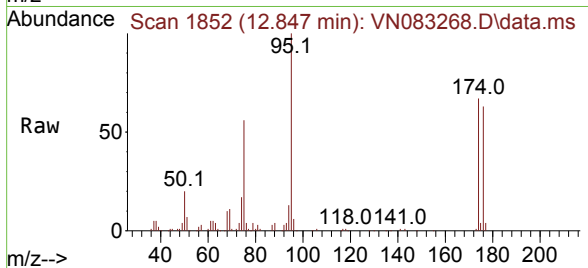
Lab File: VN083268.D

Acq: 13 Aug 2024 19:21

Instrument :

MSVOA\_N

ClientSampleId :

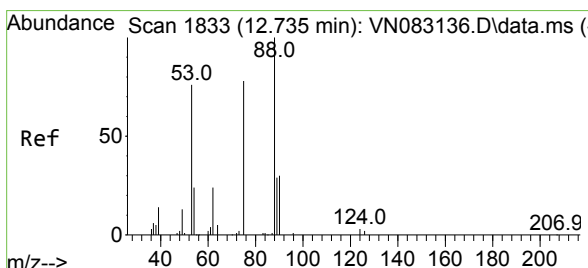
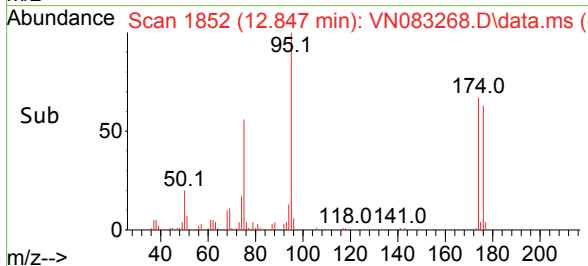
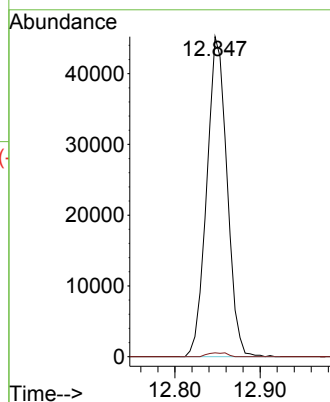


Tgt Ion: 75 Resp: 74695

Ion Ratio Lower Upper

75 100

77 1.2 110.9 332.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.994 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083268.D

Acq: 13 Aug 2024 19:21

Tgt Ion: 75 Resp: 74695

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 36.3 54.5#

