

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110423\  
 Data File : VN079900.D  
 Acq On : 04 Nov 2023 18:05  
 Operator : JC\MD  
 Sample : 05222-19DL 5X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 06 02:17:20 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

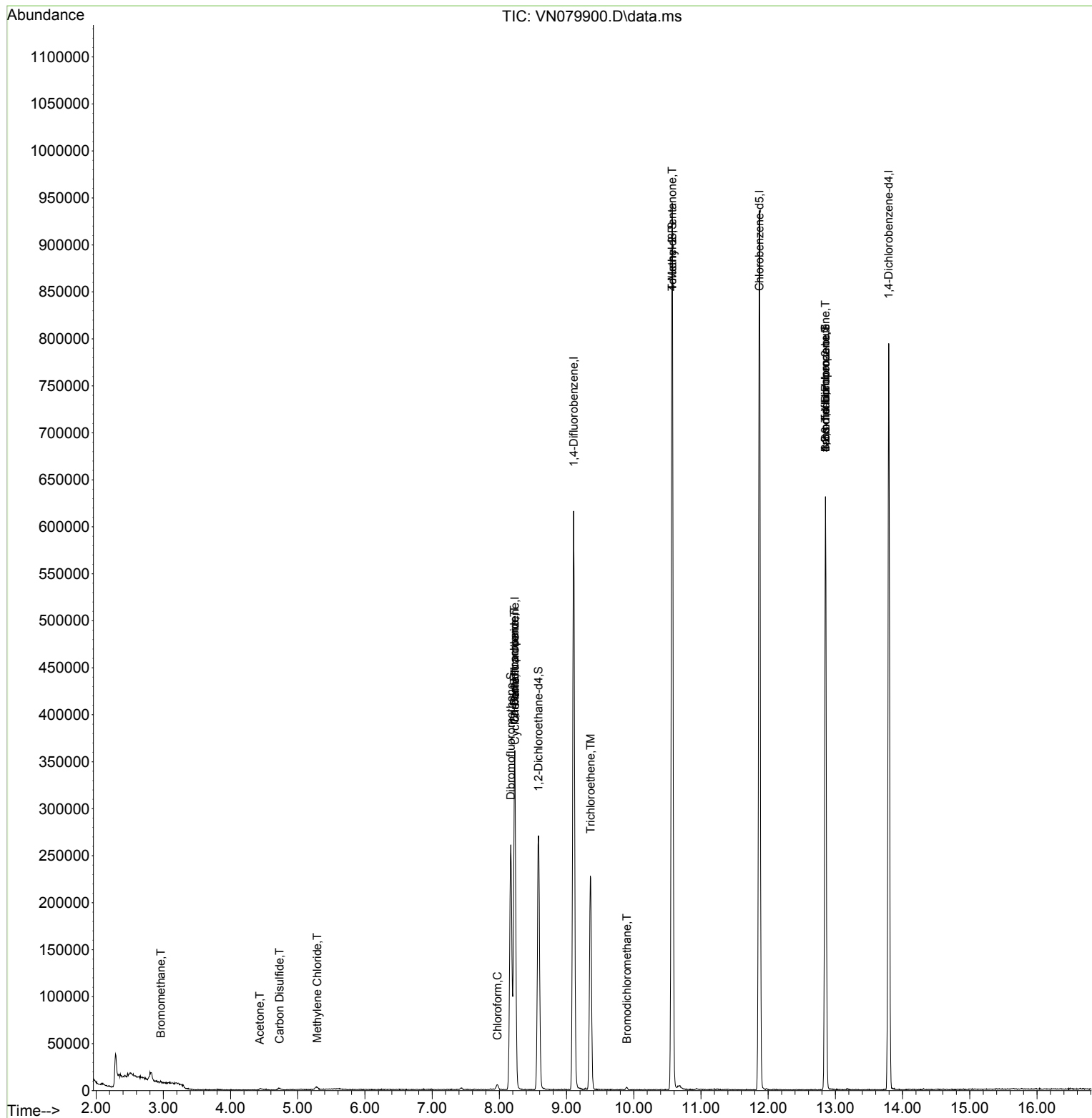
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 247248   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 499432   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117   | 507413   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 195451   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 224605   | 59.626    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 119.260% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 185767   | 52.554    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 105.100% |          |
| 50) Toluene-d8                | 10.571 | 98    | 626996   | 48.183    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 96.360%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 207750   | 48.138    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 96.280%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.359  | 50    | 1852     | Below Cal |            | 100      |
| 5) Bromomethane               | 2.965  | 94    | 819      | 0.346     | ug/l       | 97       |
| 16) Acetone                   | 4.436  | 43    | 2535     | 1.916     | ug/l #     | 40       |
| 17) Carbon Disulfide          | 4.730  | 76    | 1593     | 0.208     | ug/l #     | 75       |
| 20) Methylene Chloride        | 5.289  | 84    | 2615     | 0.783     | ug/l #     | 84       |
| 30) Chloroform                | 7.971  | 83    | 5524     | 0.886     | ug/l       | 90       |
| 31) Cyclohexane               | 8.235  | 56    | 7129     | 1.432     | ug/l #     | 58       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 24211    | 4.797     | ug/l #     | 47       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 27658    | 5.438     | ug/l #     | 16       |
| 44) Trichloroethene           | 9.359  | 130   | 79992    | 21.325    | ug/l       | 100      |
| 47) Bromodichloromethane      | 9.900  | 83    | 2137     | 0.380     | ug/l #     | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.571 | 43    | 2837     | 0.621     | ug/l #     | 1        |
| 71) Bromoform                 | 12.853 | 173   | 1966     | 0.698     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 115652   | 25.204    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 115652   | 68.575    | ug/l #     | 15       |
| -----                         |        |       |          |           |            |          |

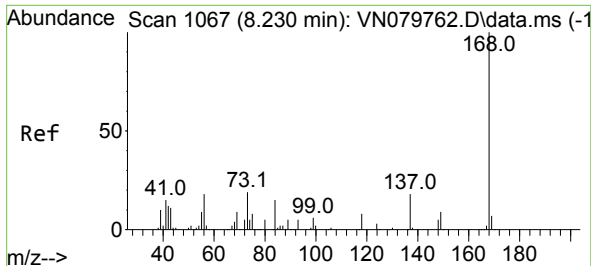
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110423\  
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Instrument :  
MSVOA\_N  
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Quant Time: Nov 06 02:17:20 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 2023  
Response via : Initial Calibration

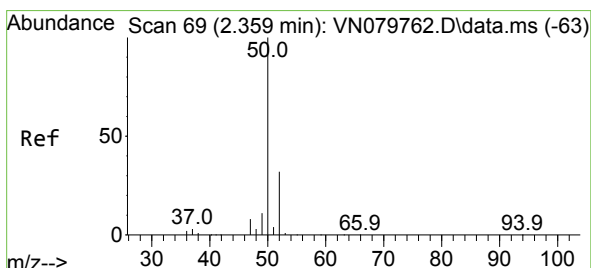
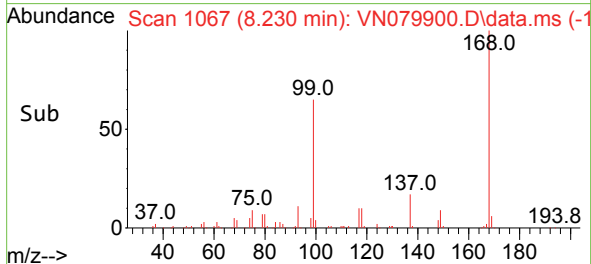
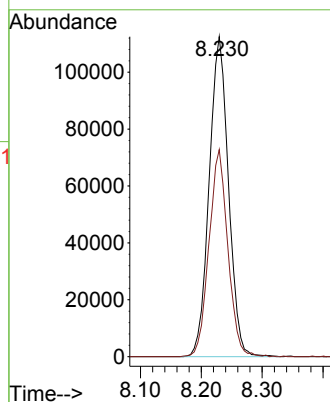
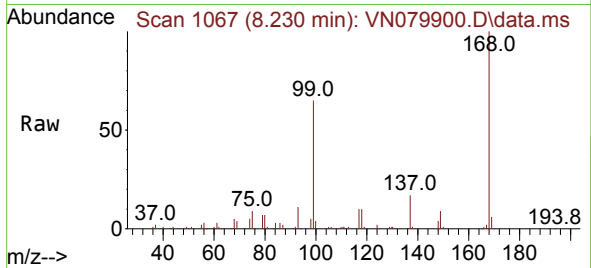




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. 0.001 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

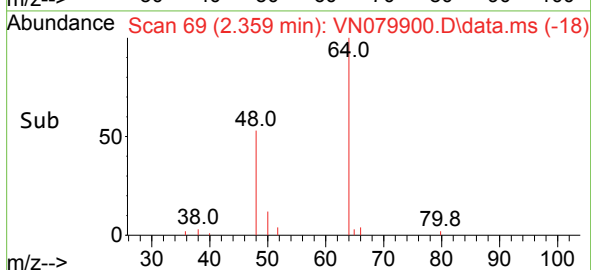
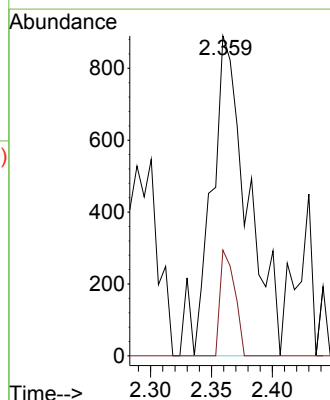
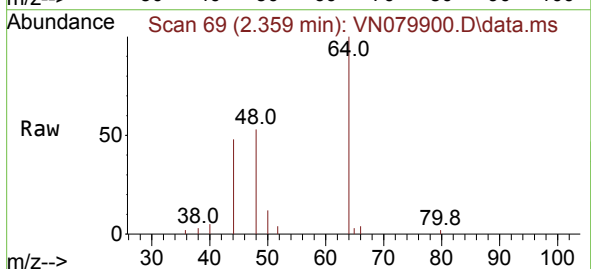
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:168 Resp: 247248  
Ion Ratio Lower Upper  
168 100  
99 64.7 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Tgt Ion: 50 Resp: 1852  
Ion Ratio Lower Upper  
50 100  
52 33.0 26.5 39.7

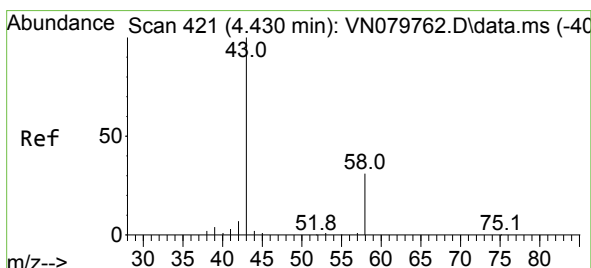
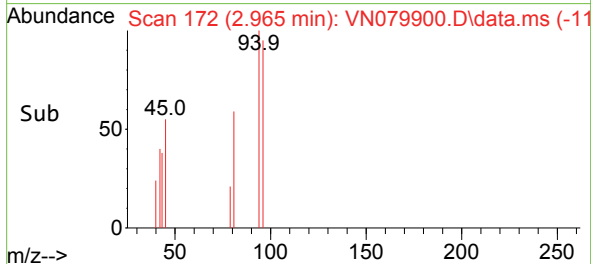
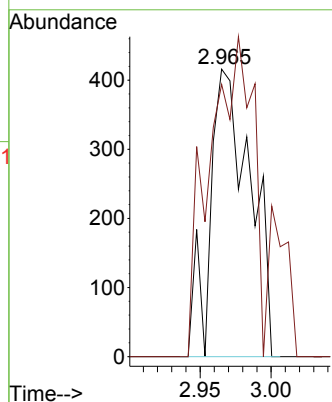
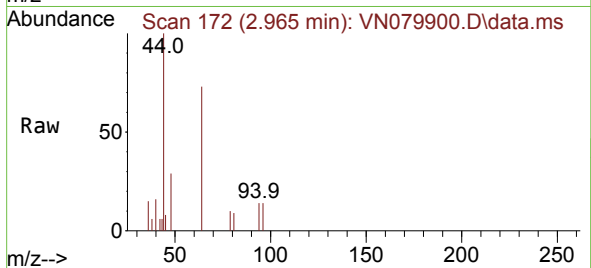




#5  
Bromomethane  
Concen: 0.346 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

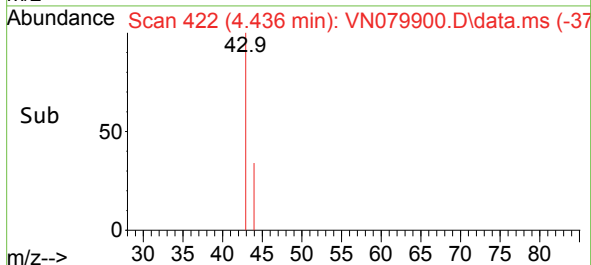
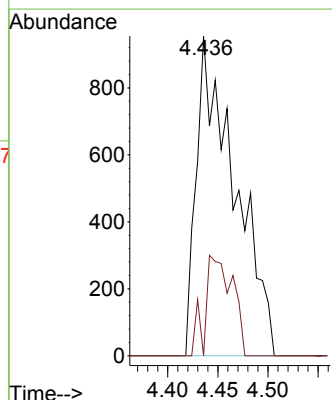
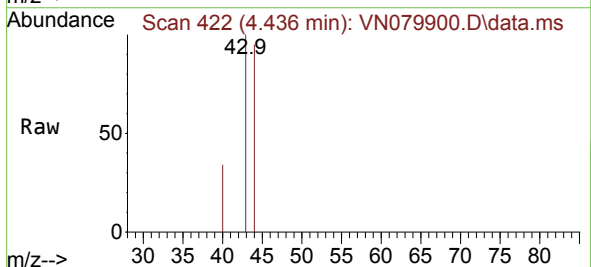
Instrument :  
MSVOA\_N  
ClientSampleId :

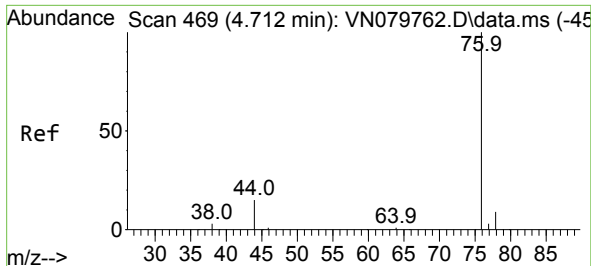
Tgt Ion: 94 Resp: 819  
Ion Ratio Lower Upper  
94 100  
96 94.7 73.1 109.7



#16  
Acetone  
Concen: 1.916 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.006 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Tgt Ion: 43 Resp: 2535  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#

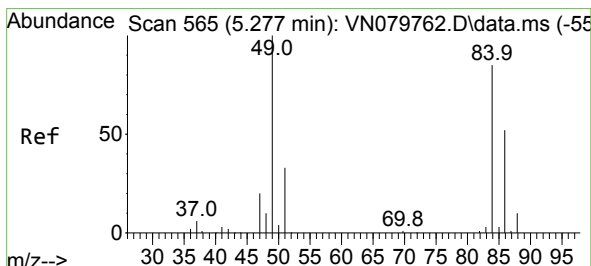
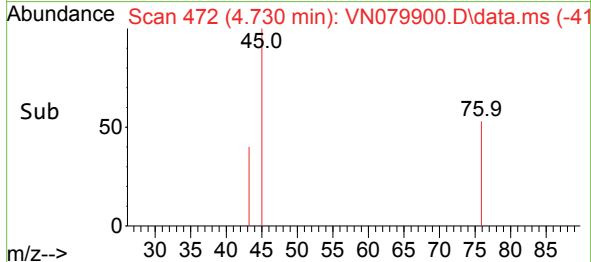
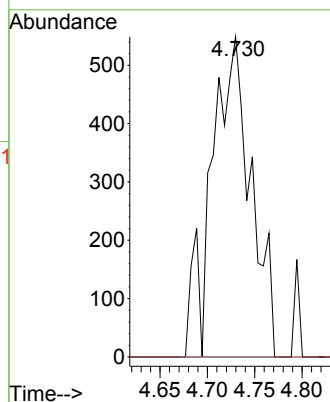
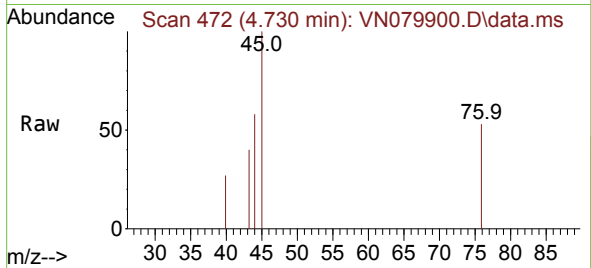




#17  
Carbon Disulfide  
Concen: 0.208 ug/l  
RT: 4.730 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

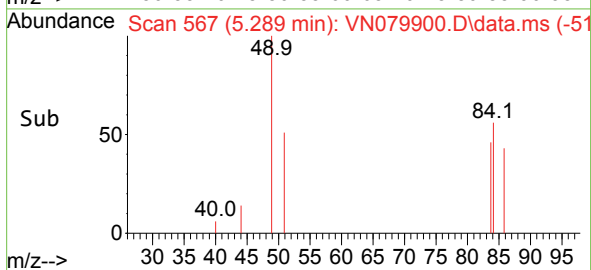
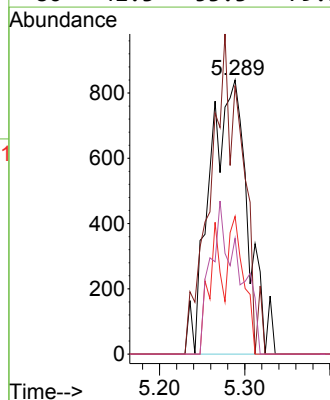
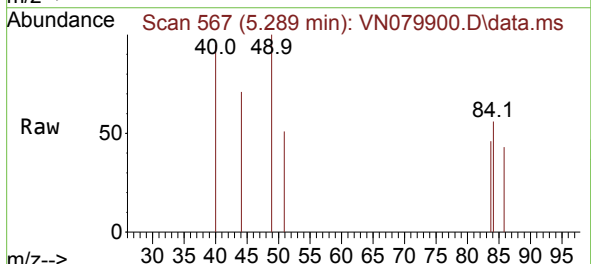
Instrument :  
MSVOA\_N  
ClientSampleId :

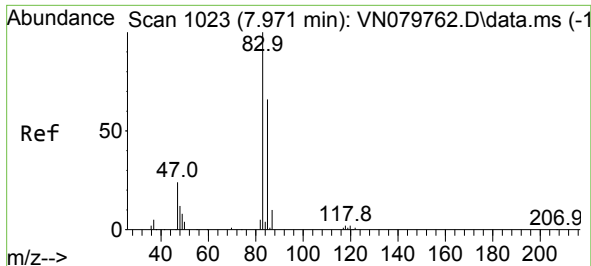
Tgt Ion: 76 Resp: 1593  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#20  
Methylene Chloride  
Concen: 0.783 ug/l  
RT: 5.289 min Scan# 567  
Delta R.T. 0.018 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Tgt Ion: 84 Resp: 2615  
Ion Ratio Lower Upper  
84 100  
49 98.0 79.7 119.5  
51 50.2 25.2 37.8#  
86 42.3 53.3 79.9#

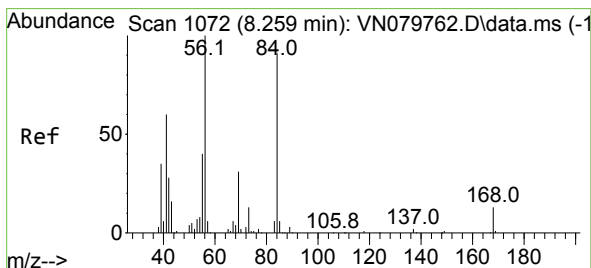
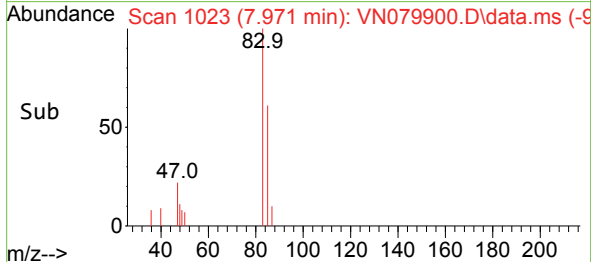
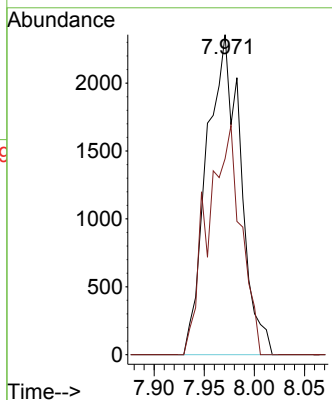
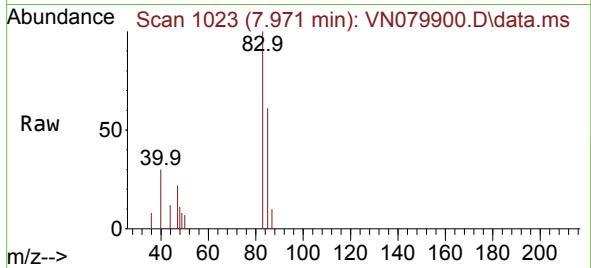




#30  
Chloroform  
Concen: 0.886 ug/l  
RT: 7.971 min Scan# 1023  
Delta R.T. 0.000 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

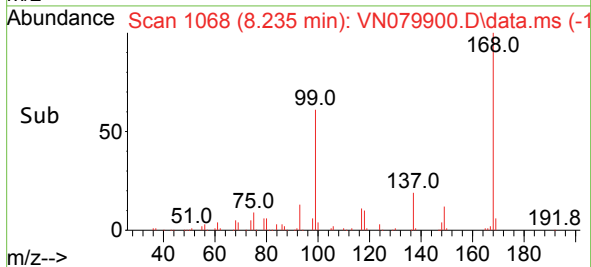
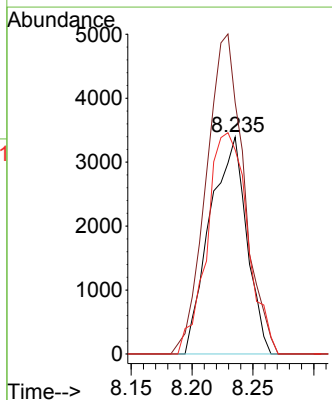
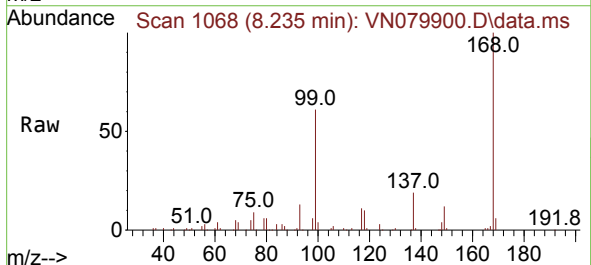
Instrument :  
MSVOA\_N  
ClientSampleId :

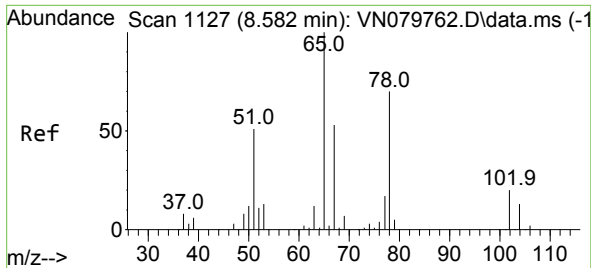
Tgt Ion: 83 Resp: 5524  
Ion Ratio Lower Upper  
83 100  
85 61.3 55.4 83.0



#31  
Cyclohexane  
Concen: 1.432 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.023 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Tgt Ion: 56 Resp: 7129  
Ion Ratio Lower Upper  
56 100  
69 116.1 26.8 40.2#  
84 94.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 59.626 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079900.D

Acq: 04 Nov 2023 18:05

Instrument :

MSVOA\_N

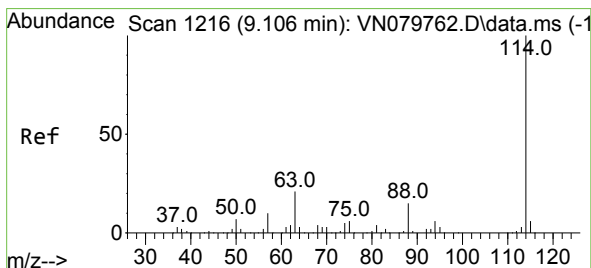
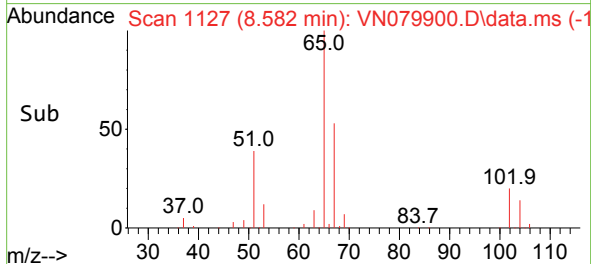
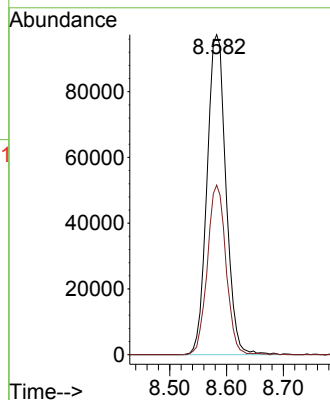
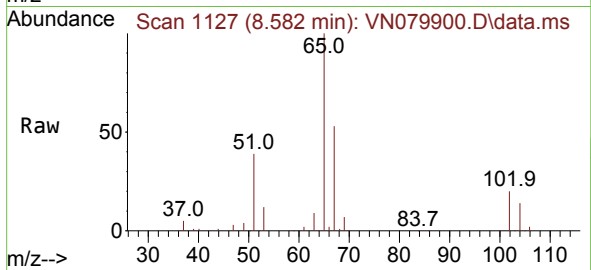
ClientSampleId :

Tgt Ion: 65 Resp: 224605

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079900.D

Acq: 04 Nov 2023 18:05

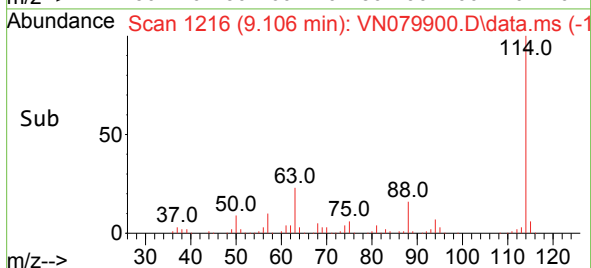
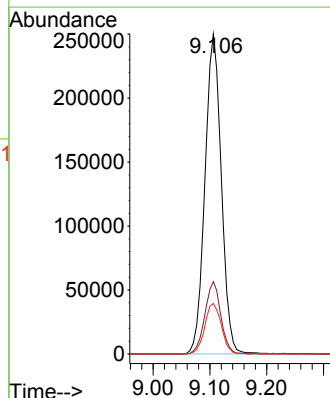
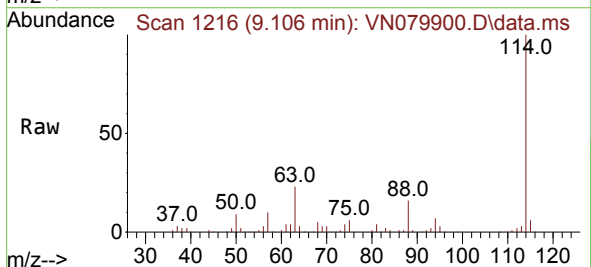
Tgt Ion: 114 Resp: 499432

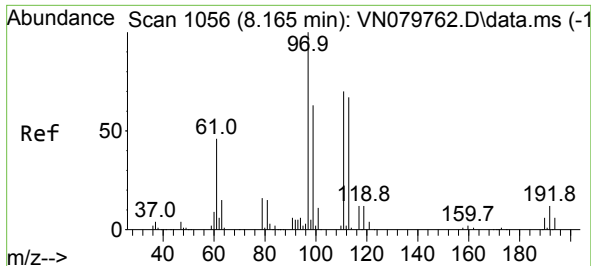
Ion Ratio Lower Upper

114 100

63 22.6 0.0 36.4

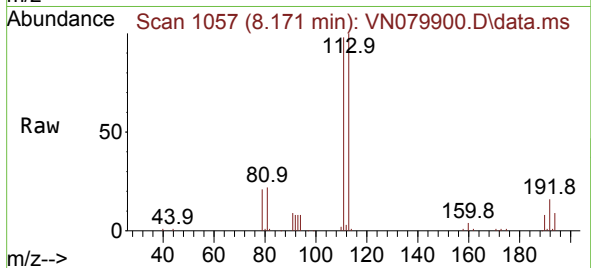
88 15.8 0.0 30.6



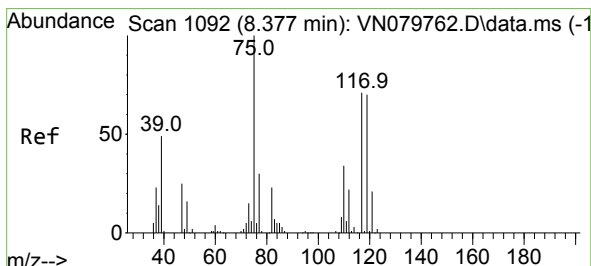
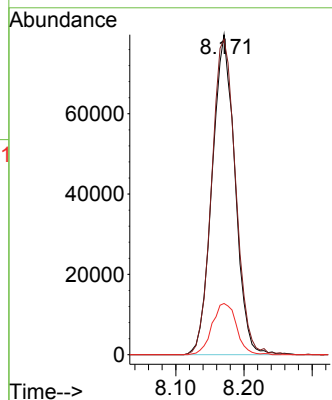
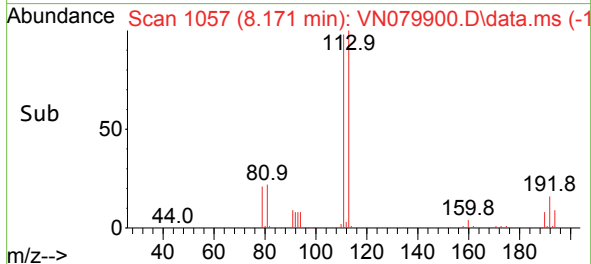


#35  
Dibromofluoromethane  
Concen: 52.554 ug/l  
RT: 8.171 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Instrument :  
MSVOA\_N  
ClientSampleId :

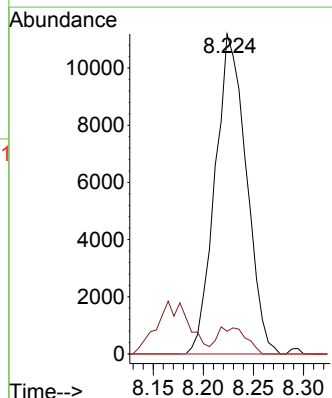
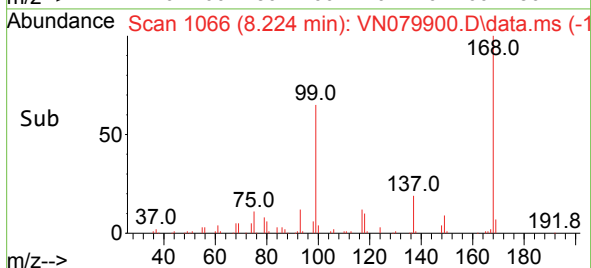
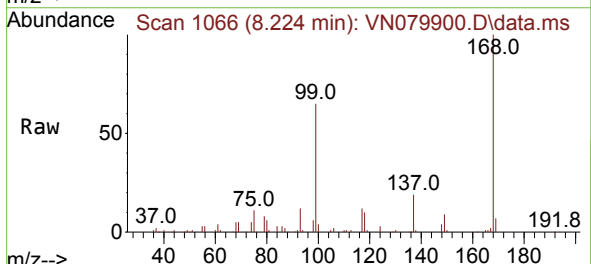


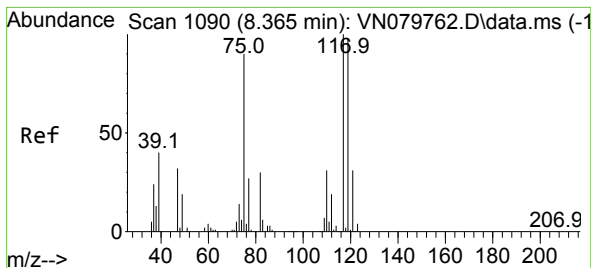
Tgt Ion:113 Resp: 185767  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.6 123.8  
192 17.1 12.7 19.1



#36  
1,1-Dichloropropene  
Concen: 4.797 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.153 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Tgt Ion: 75 Resp: 24211  
Ion Ratio Lower Upper  
75 100  
110 7.6 19.1 57.3#  
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.438 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

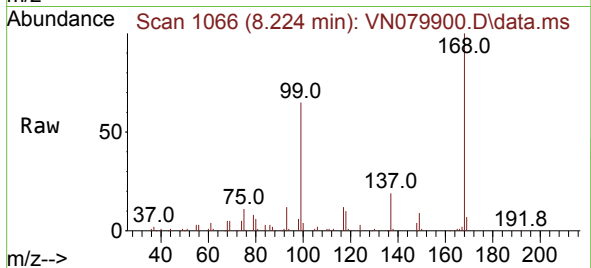
Lab File: VN079900.D

Acq: 04 Nov 2023 18:05

Instrument :

MSVOA\_N

ClientSampleId :



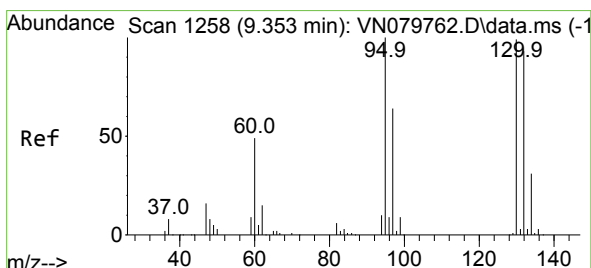
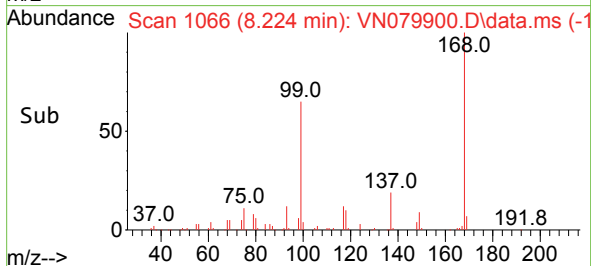
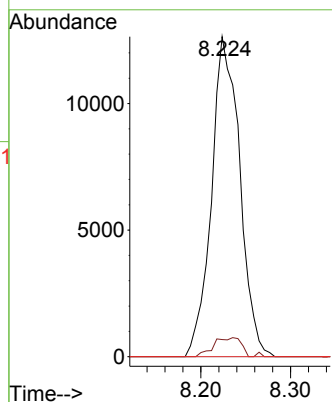
Tgt Ion:117 Resp: 27658

Ion Ratio Lower Upper

117 100

119 5.4 77.3 115.9#

121 0.0 23.3 34.9#



#44

Trichloroethene

Concen: 21.325 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.006 min

Lab File: VN079900.D

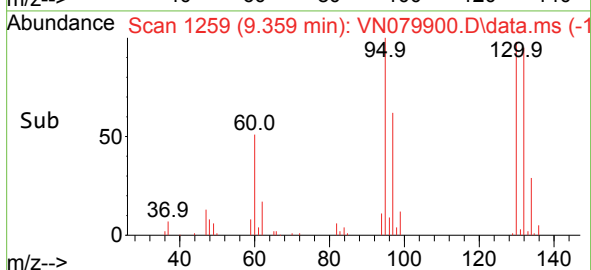
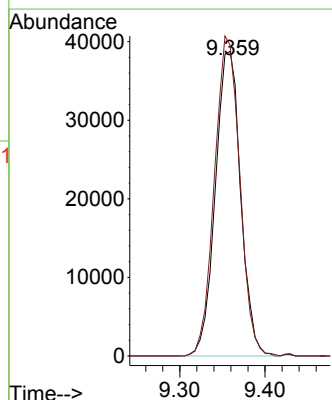
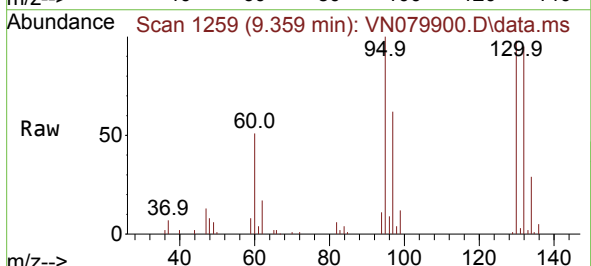
Acq: 04 Nov 2023 18:05

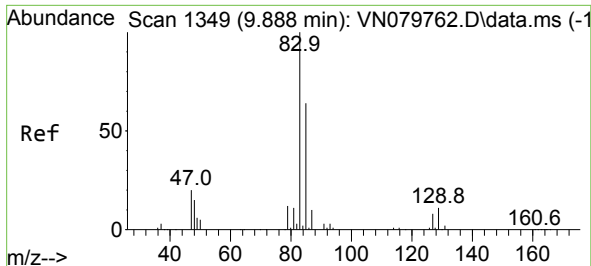
Tgt Ion:130 Resp: 79992

Ion Ratio Lower Upper

130 100

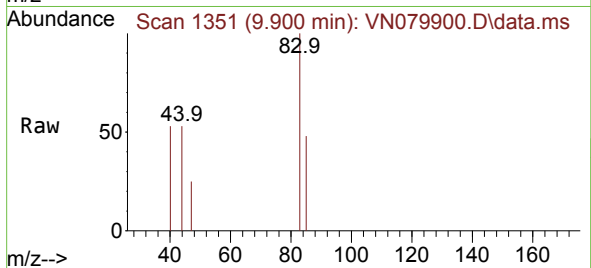
95 102.0 0.0 204.6



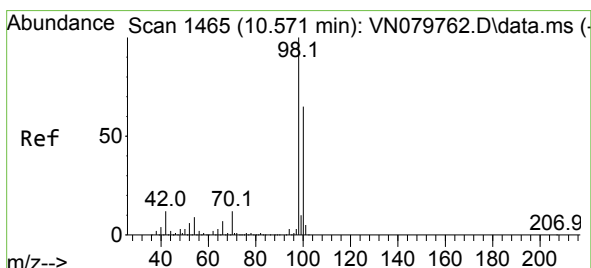
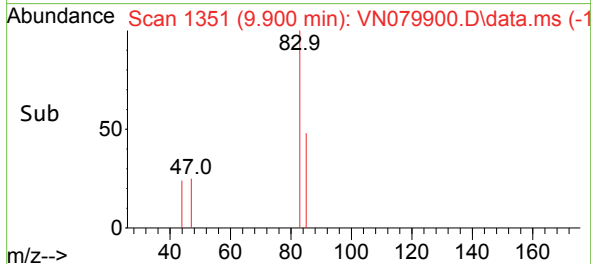
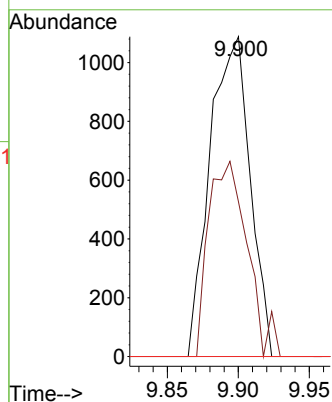


#47  
Bromodichloromethane  
Concen: 0.380 ug/l  
RT: 9.900 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Instrument :  
MSVOA\_N  
ClientSampleId :

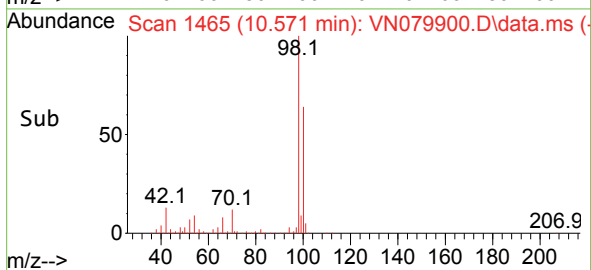
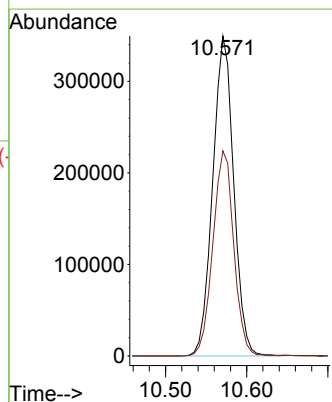
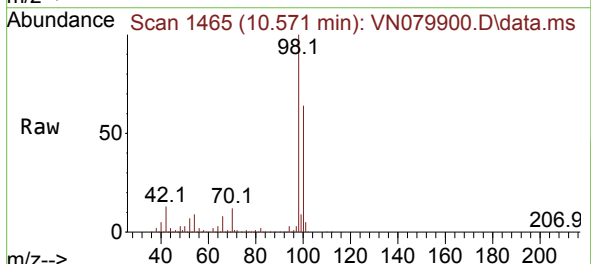


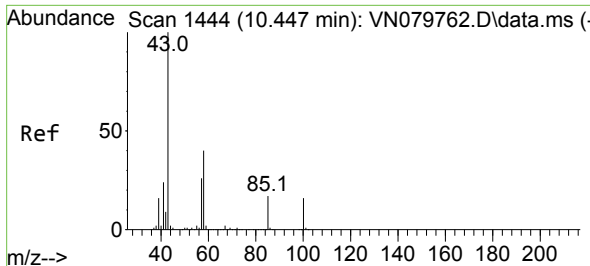
Tgt Ion: 83 Resp: 2137  
Ion Ratio Lower Upper  
83 100  
85 48.4 49.6 74.4#  
127 0.0 7.0 10.6#



#50  
Toluene-d8  
Concen: 48.183 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Tgt Ion: 98 Resp: 626996  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.0 78.0

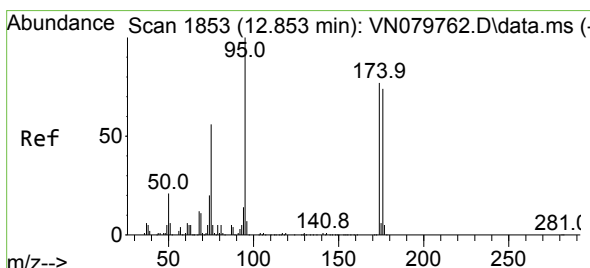
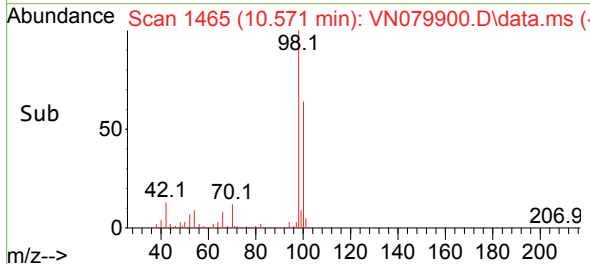
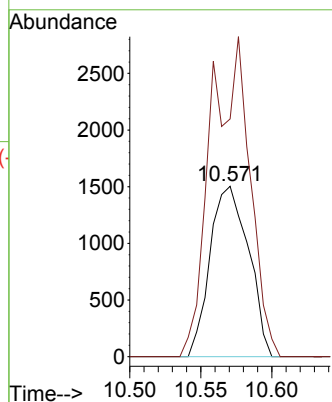
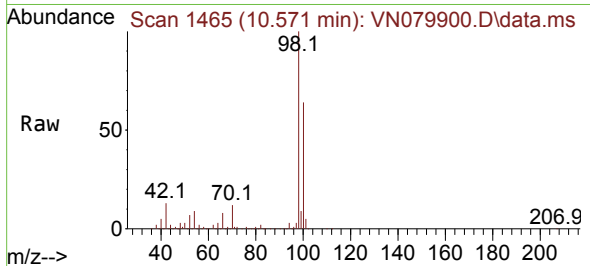




#51  
4-Methyl-2-Pentanone  
Concen: 0.621 ug/l  
RT: 10.571 min Scan# 1444  
Delta R.T. 0.124 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

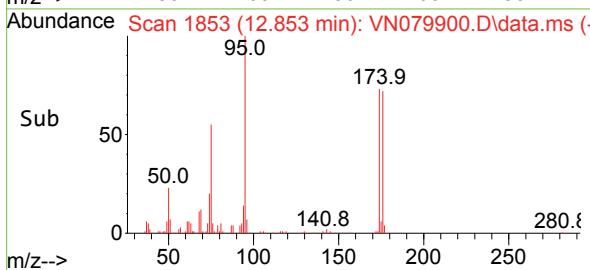
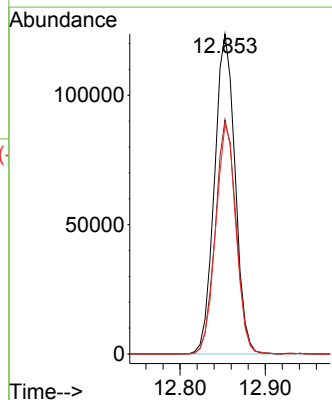
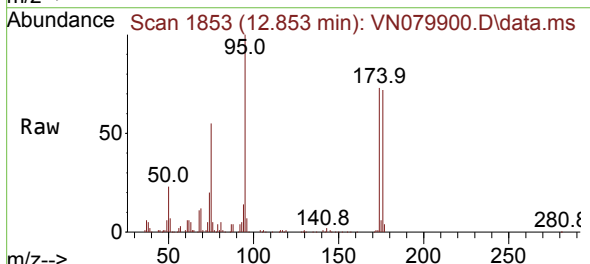
Instrument :  
MSVOA\_N  
ClientSampleId :

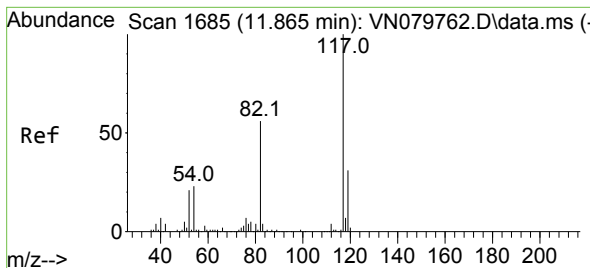
Tgt Ion: 43 Resp: 2837  
Ion Ratio Lower Upper  
43 100  
58 190.1 36.6 54.8#



#62  
4-Bromofluorobenzene  
Concen: 48.138 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

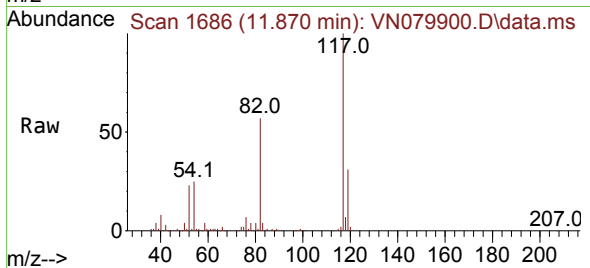
Tgt Ion: 95 Resp: 207750  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 143.8  
176 70.7 0.0 135.8



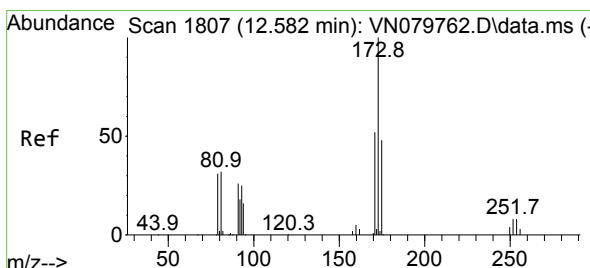
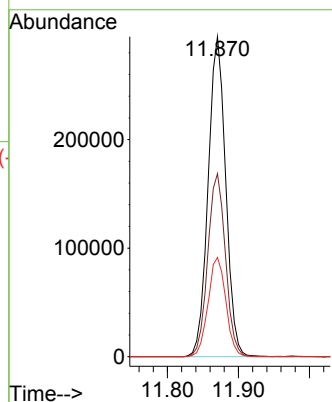
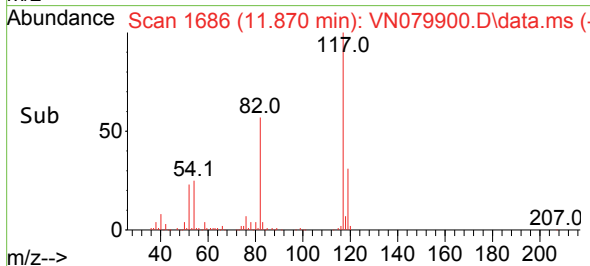


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Instrument :  
MSVOA\_N  
ClientSampleId :

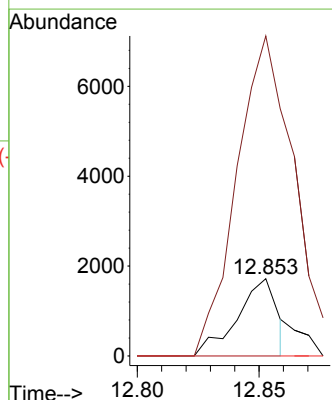
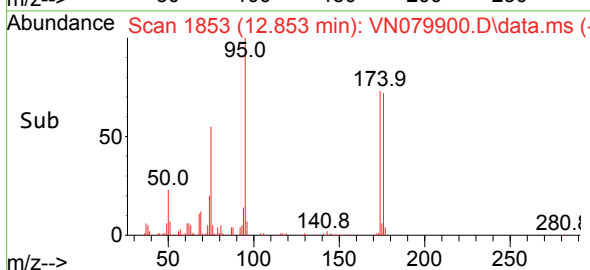
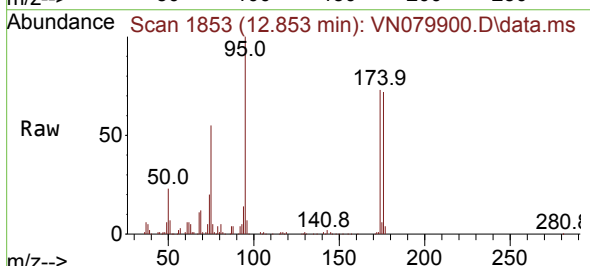


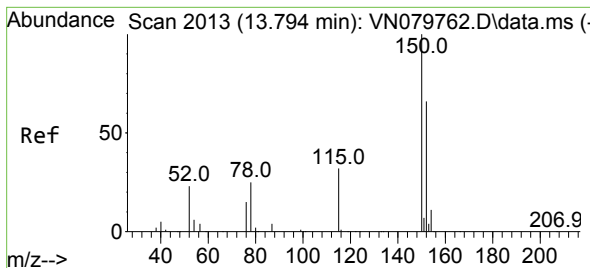
Tgt Ion:117 Resp: 507413  
Ion Ratio Lower Upper  
117 100  
82 57.2 44.0 66.0  
119 31.0 25.6 38.4



#71  
Bromoform  
Concen: 0.698 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.271 min  
Lab File: VN079900.D  
Acq: 04 Nov 2023 18:05

Tgt Ion:173 Resp: 1966  
Ion Ratio Lower Upper  
173 100  
175 458.3 24.3 73.0#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079900.D

Acq: 04 Nov 2023 18:05

Instrument :

MSVOA\_N

ClientSampleId :

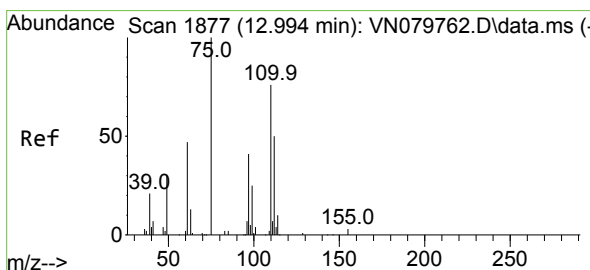
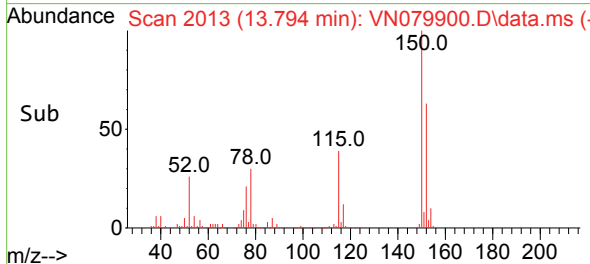
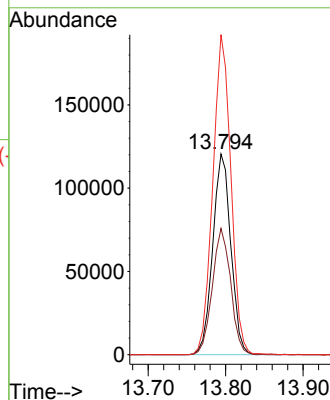
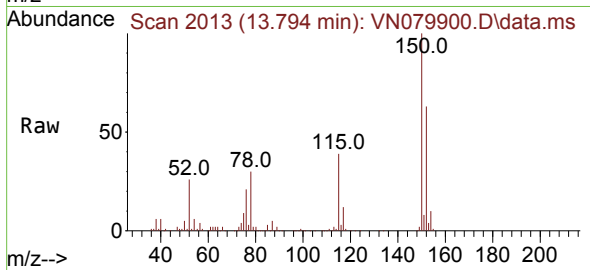
Tgt Ion:152 Resp: 195451

Ion Ratio Lower Upper

152 100

115 63.6 32.3 96.8

150 159.5 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 25.204 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079900.D

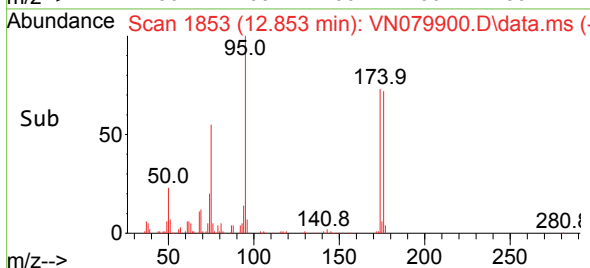
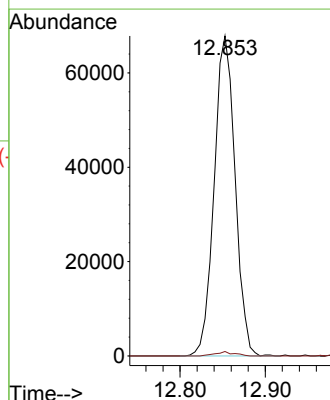
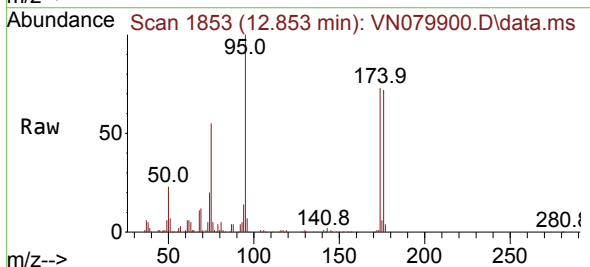
Acq: 04 Nov 2023 18:05

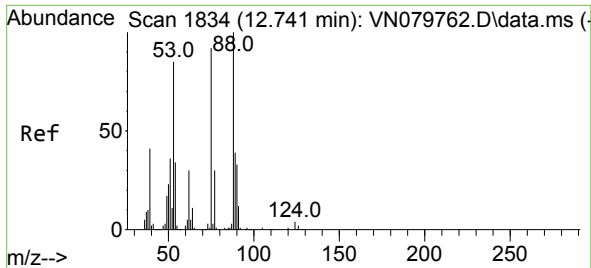
Tgt Ion: 75 Resp: 115652

Ion Ratio Lower Upper

75 100

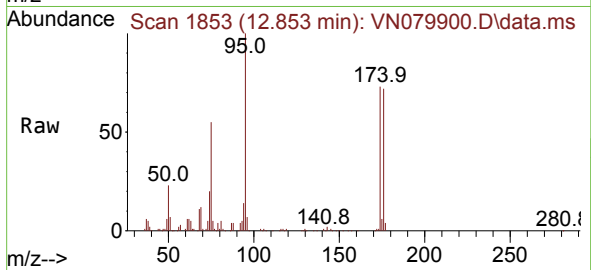
77 1.2 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.575 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN079900.D  
 Acq: 04 Nov 2023 18:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 115652  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 67.4 101.2#  
 89 0.0 38.8 58.2#

