

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072324\  
 Data File : VN083011.D  
 Acq On : 23 Jul 2024 13:37  
 Operator : JC\MD  
 Sample : VN0723MBL01  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 24 02:28:17 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 13:46:04 2024  
 Response via : Initial Calibration

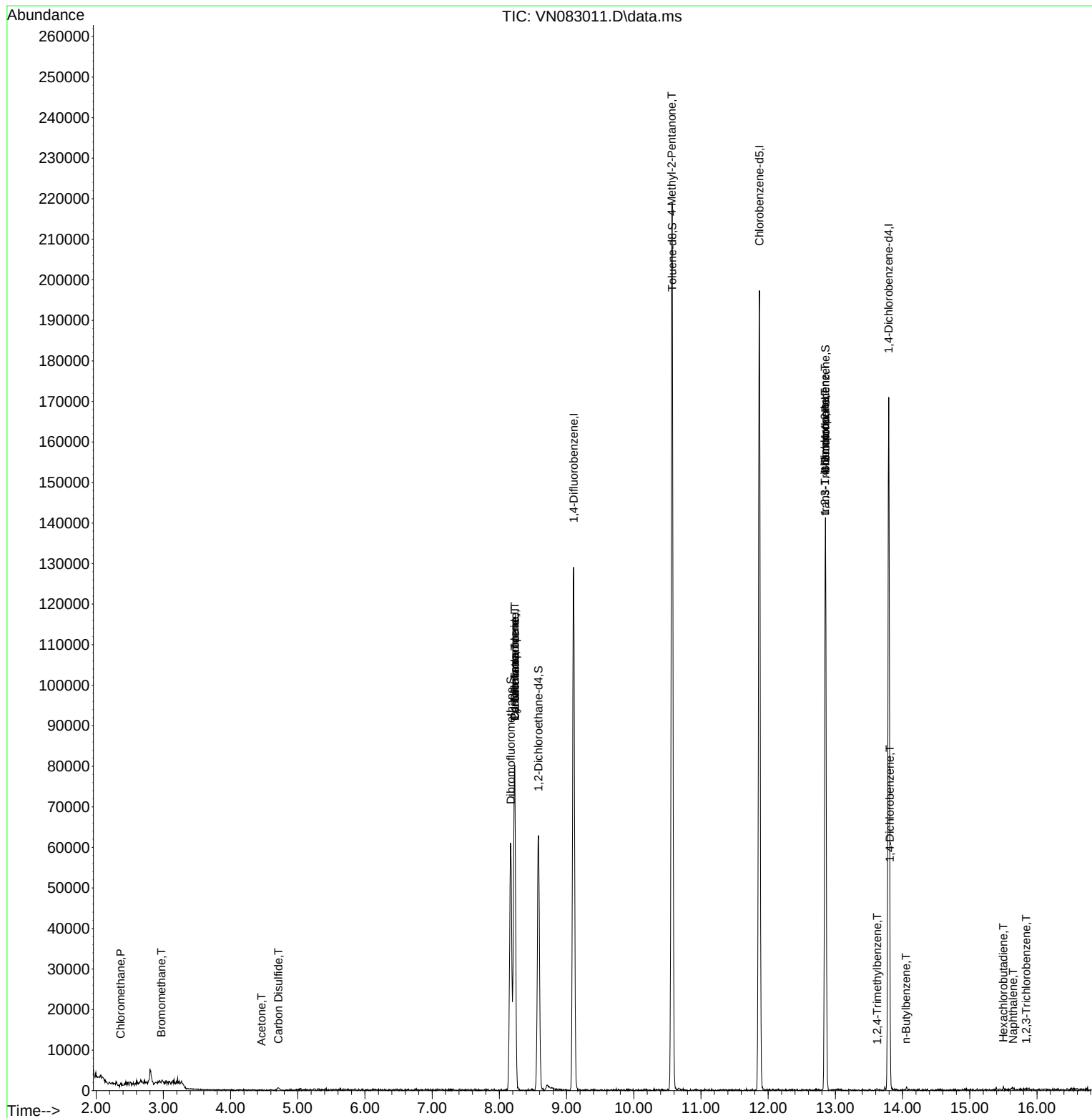
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 57076                | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 108408               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 110286               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 42709                | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 51601                | 64.494    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 128.980%# |           |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 42932                | 61.717    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 123.440%  |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 145680               | 56.701    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 113.400%# |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 42966                | 46.555    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 64 - 133 |      | Recovery = 93.100%   |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        | Qvalue   |
| 3) Chloromethane              | 2.365          | 50   | 249                  | 0.355     | ug/l # | 70       |
| 5) Bromomethane               | 2.971          | 94   | 556                  | 1.048     | ug/l # | 78       |
| 16) Acetone                   | 4.459          | 43   | 70                   | 0.248     | ug/l # | 48       |
| 17) Carbon Disulfide          | 4.712          | 76   | 930                  | 0.534     | ug/l # | 75       |
| 31) Cyclohexane               | 8.230          | 56   | 1752                 | 1.675     | ug/l # | 52       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 5412                 | 5.643     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 6241                 | 5.405     | ug/l # | 13       |
| 43) Isopropyl Acetate         | 8.700          | 43   | 363                  | Below Cal | #      | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 630                  | 0.651     | ug/l # | 1        |
| 71) Bromoform                 | 12.853         | 173  | 251                  | 0.380     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 25277                | 34.328    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 25277                | 67.514    | ug/l # | 6        |
| 84) 1,2,4-Trimethylbenzene    | 13.623         | 105  | 529                  | 0.207     | ug/l # | 32       |
| 88) 1,4-Dichlorobenzene       | 13.812         | 146  | 397                  | 0.265     | ug/l # | 1        |
| 89) n-Butylbenzene            | 14.053         | 91   | 460                  | 0.214     | ug/l # | 81       |
| 94) Hexachlorobutadiene       | 15.500         | 225  | 218                  | 0.650     | ug/l # | 35       |
| 95) Naphthalene               | 15.647         | 128  | 843                  | 0.325     | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 15.841         | 180  | 235                  | 0.302     | ug/l # | 52       |
| -----                         |                |      |                      |           |        |          |

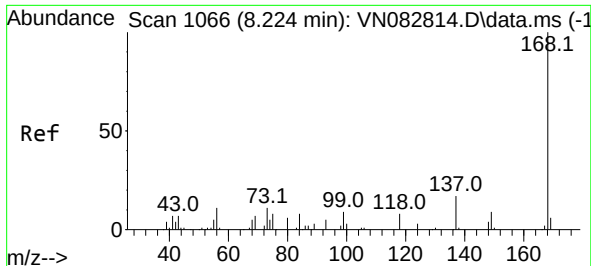
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
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Quant Title : SW846 8260  
QLast Update : Mon Jul 08 13:46:04 2024  
Response via : Initial Calibration

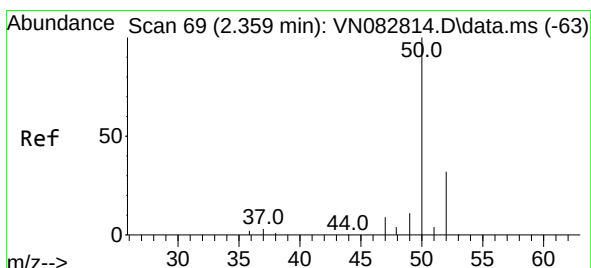
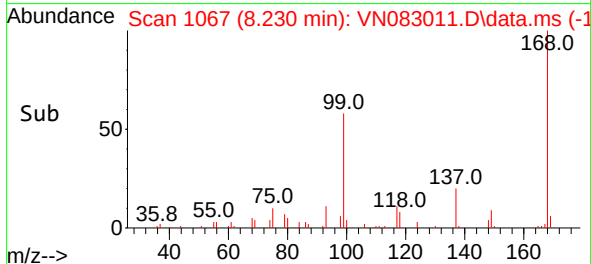
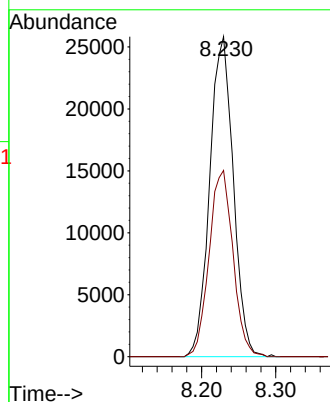
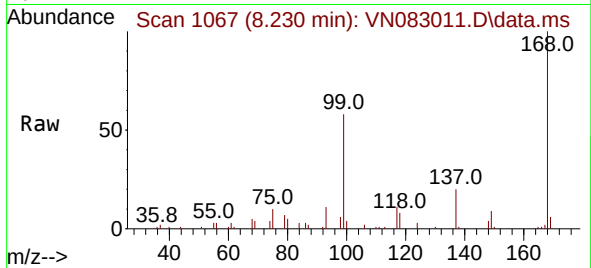




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. 0.001 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

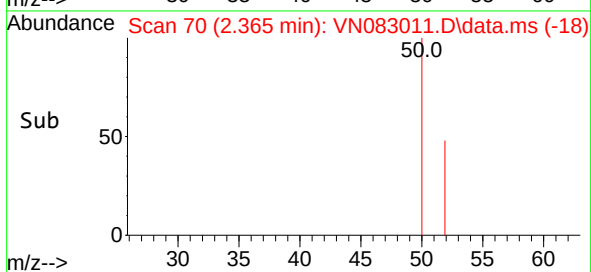
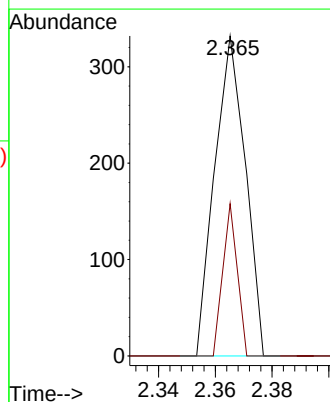
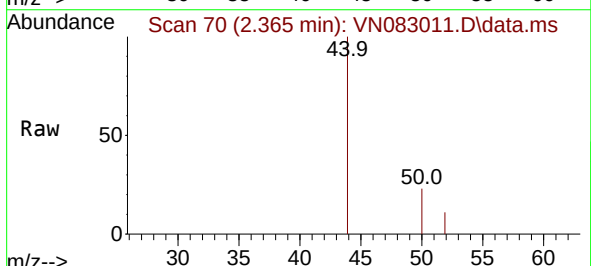
Instrument :  
MSVOA\_N  
ClientSampleId :

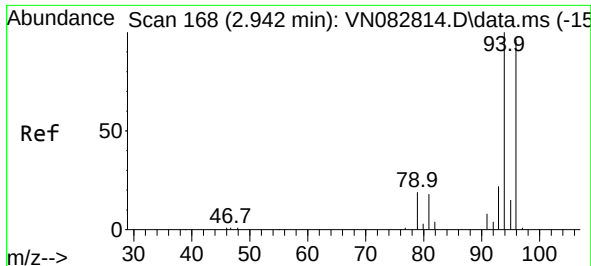
Tgt Ion:168 Resp: 57076  
Ion Ratio Lower Upper  
168 100  
99 58.2 48.2 72.4



#3  
Chloromethane  
Concen: 0.355 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

Tgt Ion: 50 Resp: 249  
Ion Ratio Lower Upper  
50 100  
52 47.6 25.0 37.4#

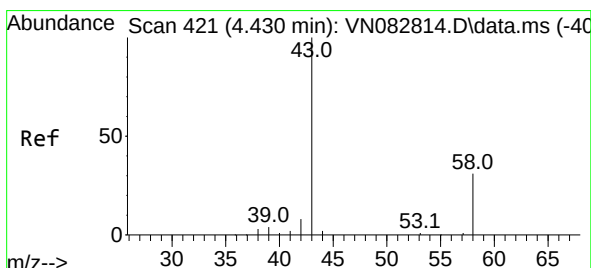
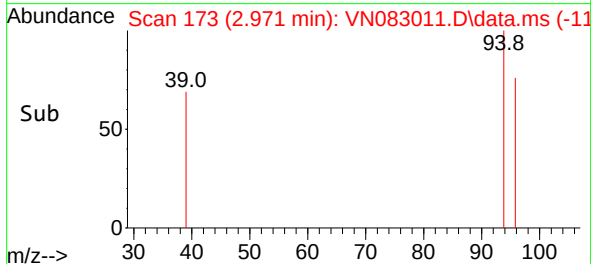
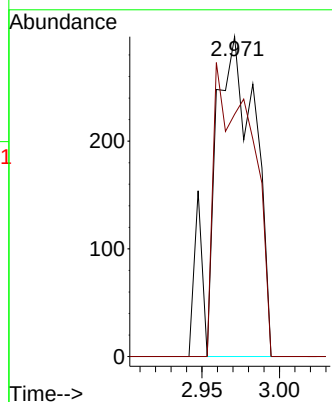
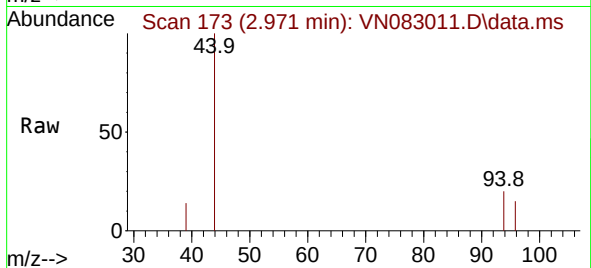




#5  
Bromomethane  
Concen: 1.048 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

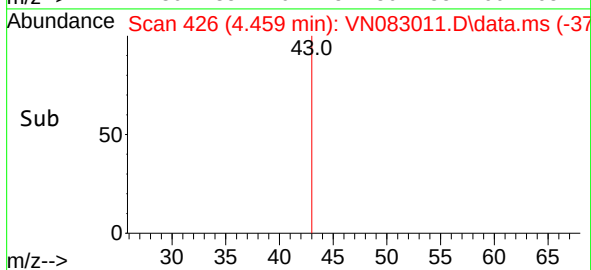
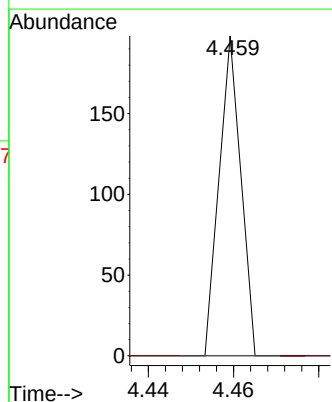
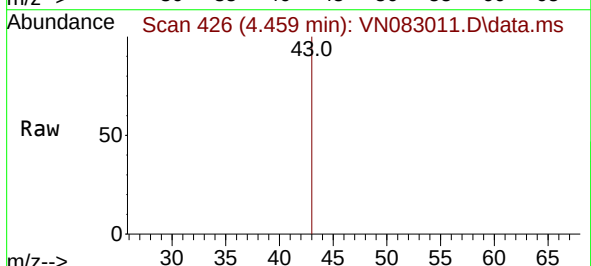
Instrument :  
MSVOA\_N  
ClientSampleId :

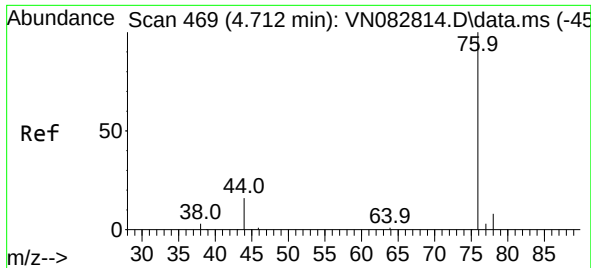
Tgt Ion: 94 Resp: 556  
Ion Ratio Lower Upper  
94 100  
96 75.8 78.0 117.0#



#16  
Acetone  
Concen: 0.248 ug/l  
RT: 4.459 min Scan# 426  
Delta R.T. 0.029 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

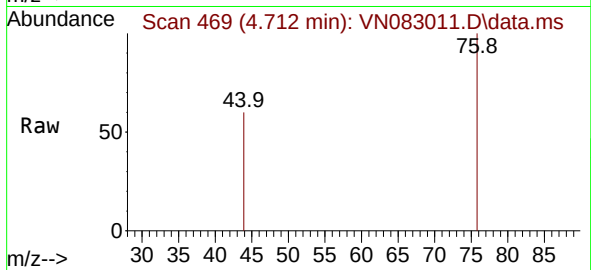
Tgt Ion: 43 Resp: 70  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.8 32.6#



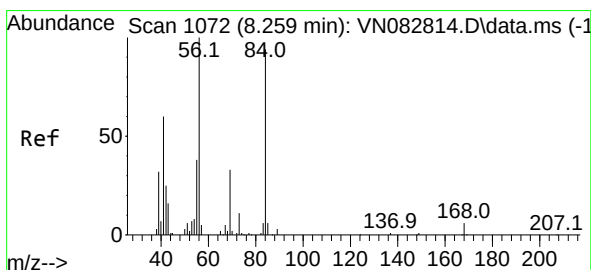
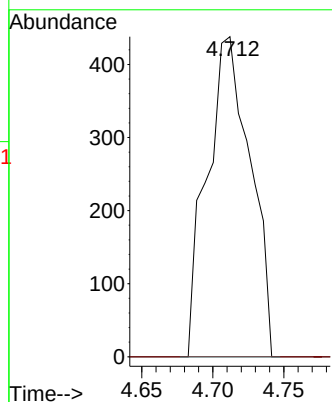
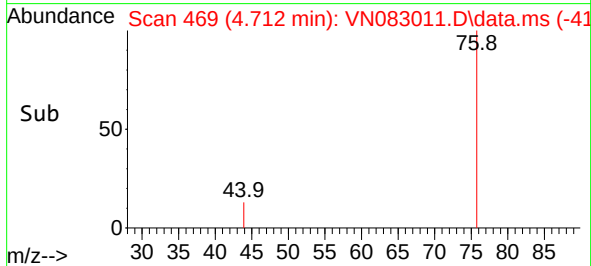


#17  
Carbon Disulfide  
Concen: 0.534 ug/l  
RT: 4.712 min Scan# 407  
Delta R.T. 0.000 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

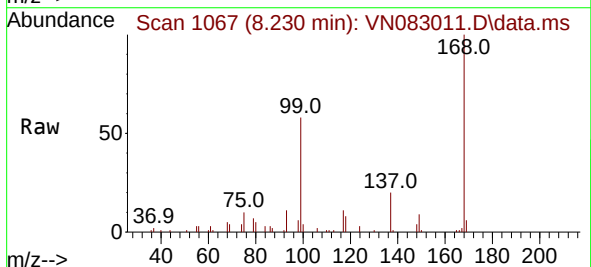
Instrument :  
MSVOA\_N  
ClientSampleId :



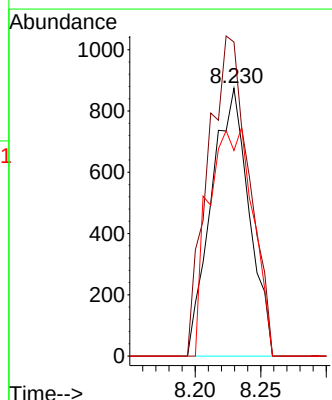
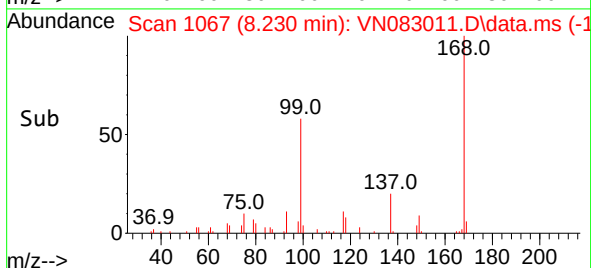
Tgt Ion: 76 Resp: 930  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

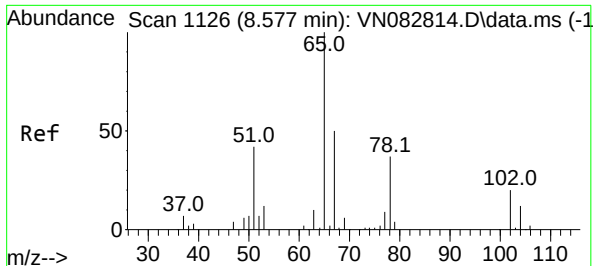


#31  
Cyclohexane  
Concen: 1.675 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37



Tgt Ion: 56 Resp: 1752  
Ion Ratio Lower Upper  
56 100  
69 117.3 24.5 36.7#  
84 76.8 66.0 99.0





#33

1,2-Dichloroethane-d4

Concen: 64.494 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

Instrument :

MSVOA\_N

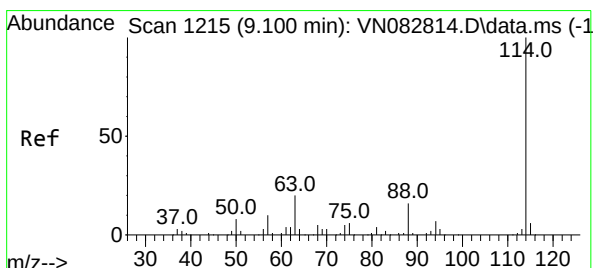
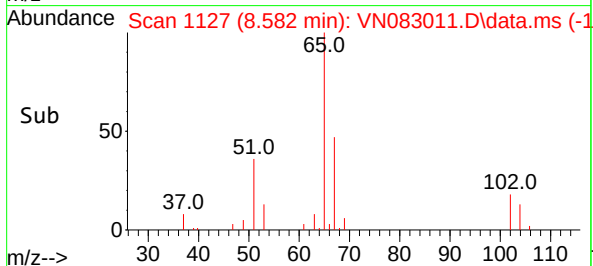
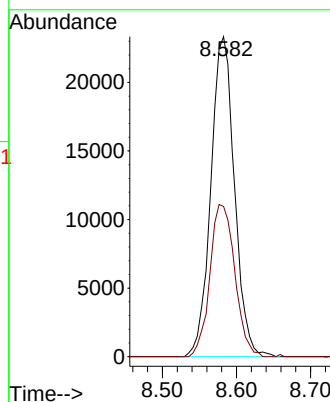
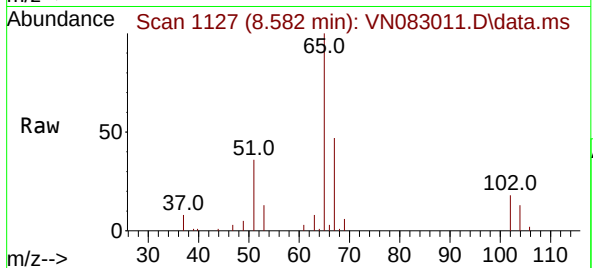
ClientSampleId :

Tgt Ion: 65 Resp: 51601

Ion Ratio Lower Upper

65 100

67 50.2 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

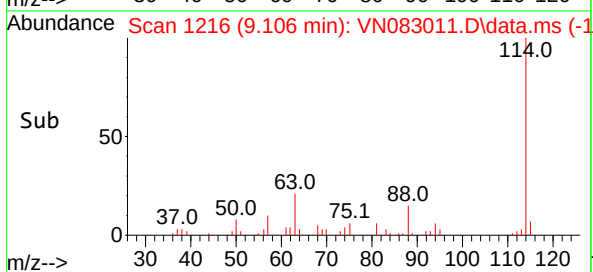
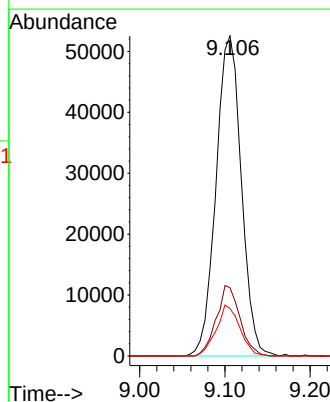
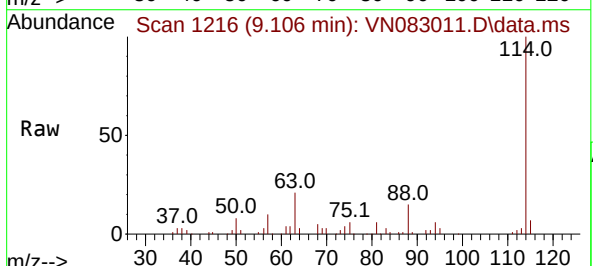
Tgt Ion: 114 Resp: 108408

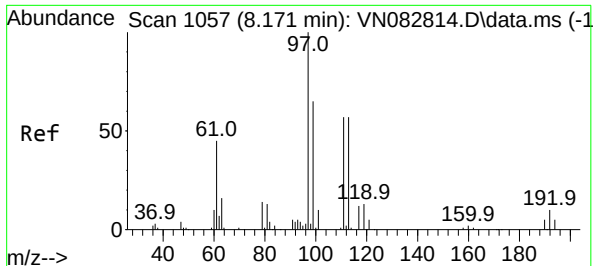
Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.6

88 14.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 61.717 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

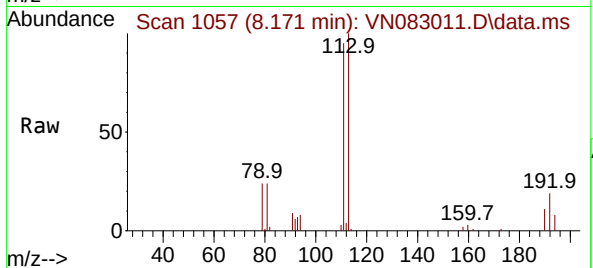
Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

Instrument :

MSVOA\_N

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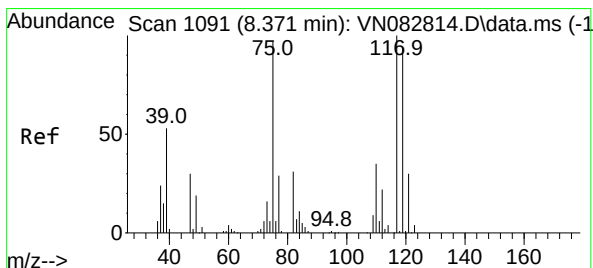
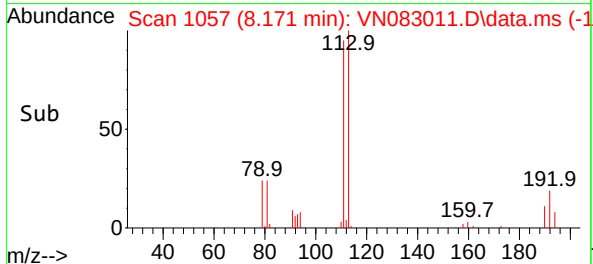
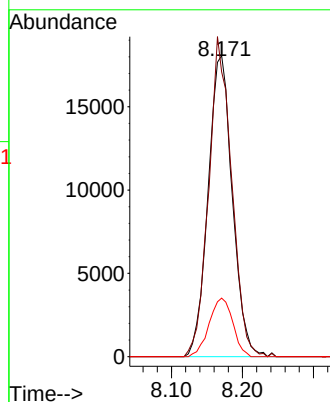
Tgt Ion:113 Resp: 42932

Ion Ratio Lower Upper

113 100

111 100.6 82.4 123.6

192 18.9 14.9 22.3



#36

1,1-Dichloropropene

Concen: 5.643 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

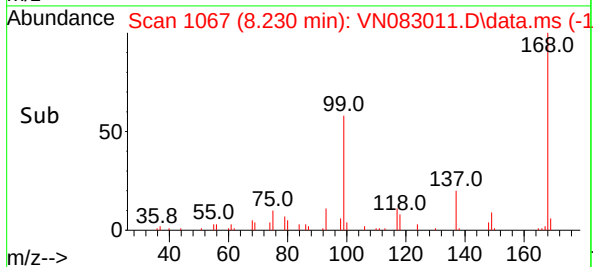
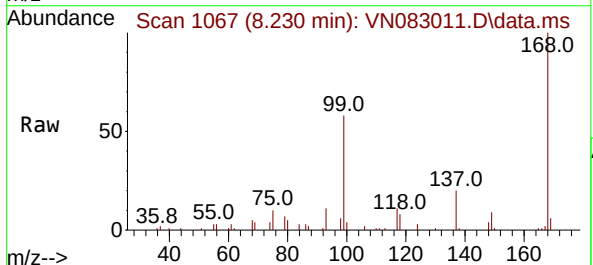
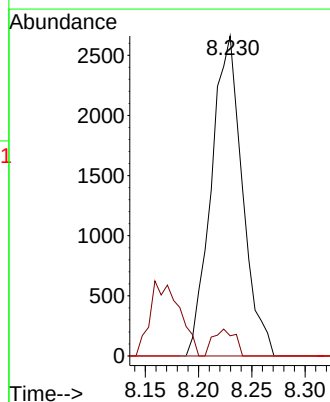
Tgt Ion: 75 Resp: 5412

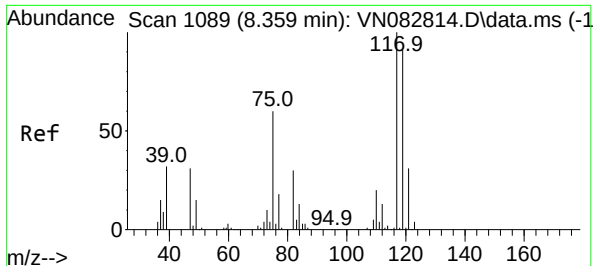
Ion Ratio Lower Upper

75 100

110 5.9 16.3 48.9#

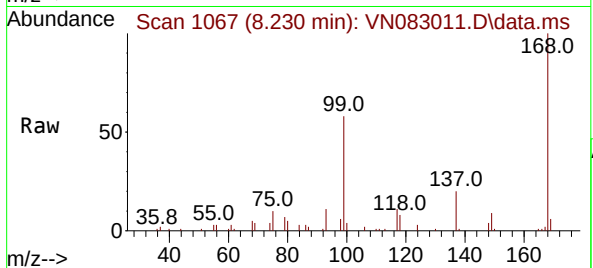
77 0.0 24.6 37.0#



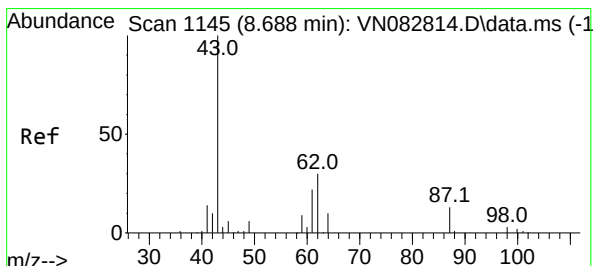
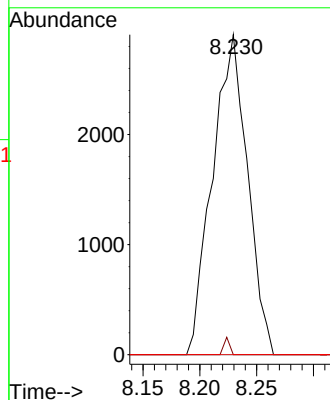
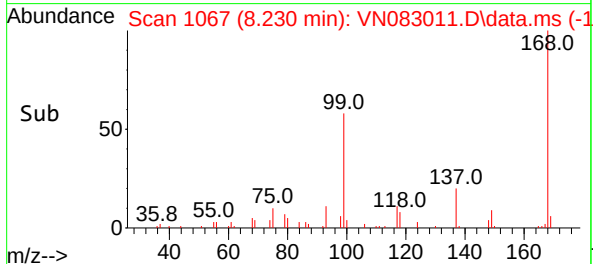


#38  
Carbon Tetrachloride  
Concen: 5.405 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.135 min  
Lab File: VN083011.D  
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ClientSampleId :

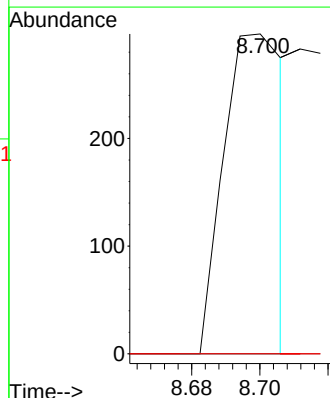
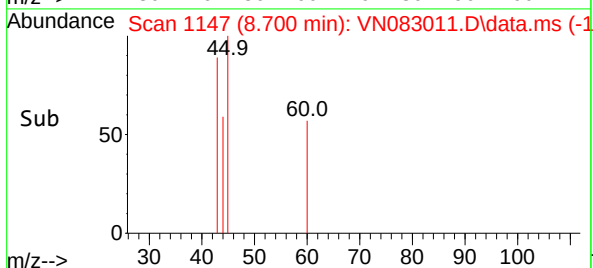
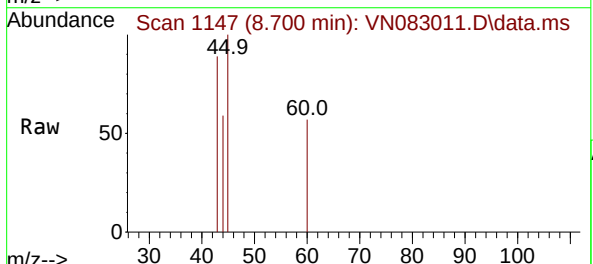


Tgt Ion:117 Resp: 6241  
Ion Ratio Lower Upper  
117 100  
119 0.0 74.9 112.3#  
121 0.0 24.3 36.5#

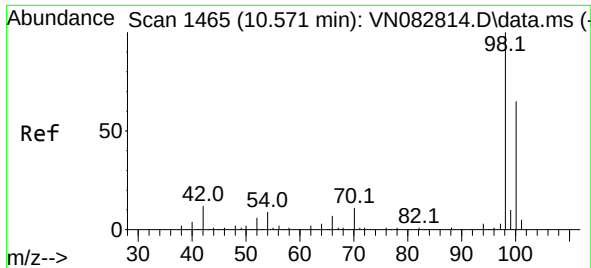


#43  
Isopropyl Acetate  
Concen: Below Cal  
RT: 8.700 min Scan# 1147  
Delta R.T. 0.006 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

Tgt Ion: 43 Resp: 363  
Ion Ratio Lower Upper  
43 100  
61 0.0 17.8 26.6#  
87 0.0 8.2 12.2#



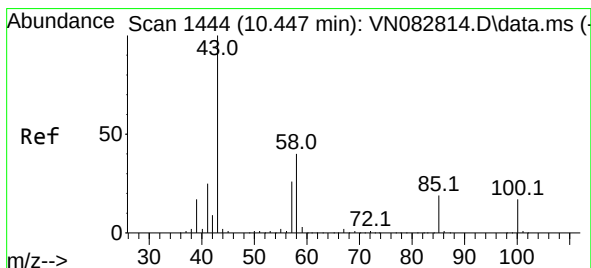
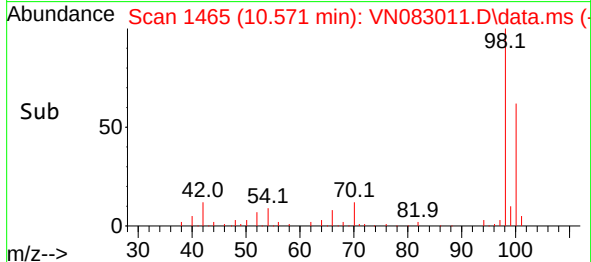
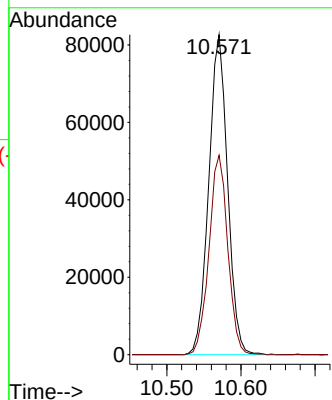
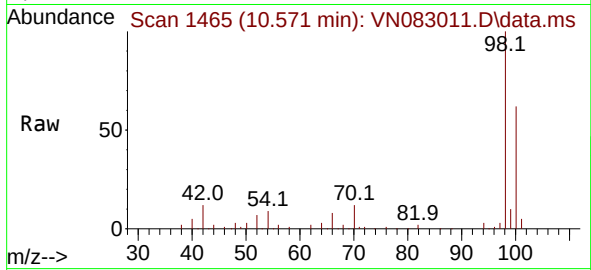




#50  
Toluene-d8  
Concen: 56.701 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.001 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

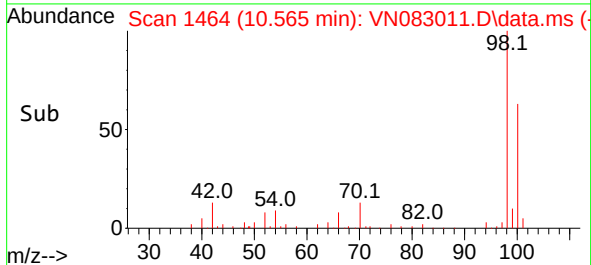
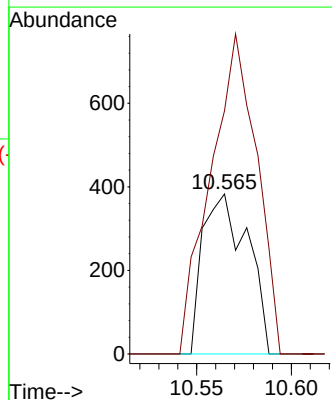
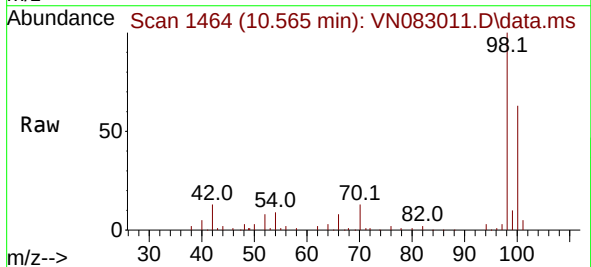
Instrument :  
MSVOA\_N  
ClientSampleId :

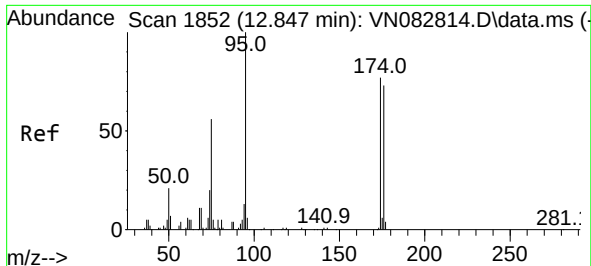
Tgt Ion: 98 Resp: 145680  
Ion Ratio Lower Upper  
98 100  
100 62.2 51.5 77.3



#51  
4-Methyl-2-Pentanone  
Concen: 0.651 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.118 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

Tgt Ion: 43 Resp: 630  
Ion Ratio Lower Upper  
43 100  
58 206.2 28.2 42.4#

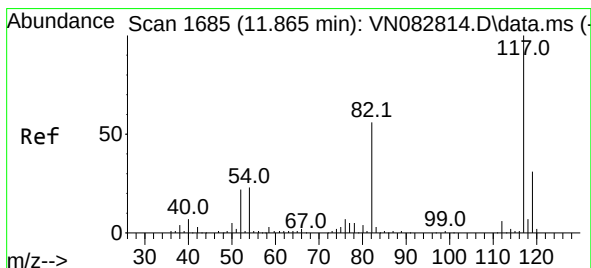
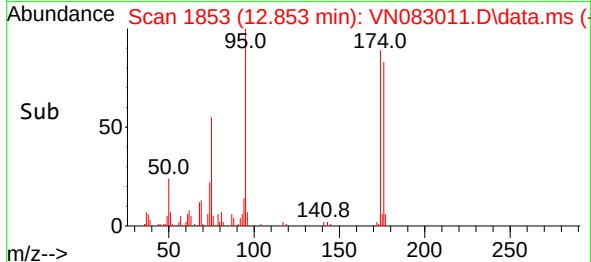
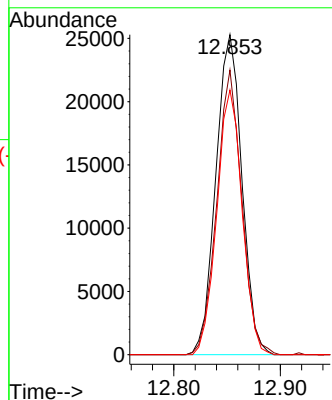
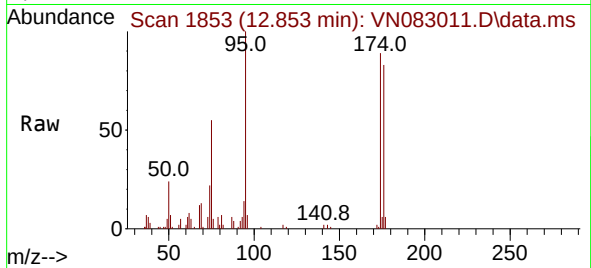




#62  
4-Bromofluorobenzene  
Concen: 46.555 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

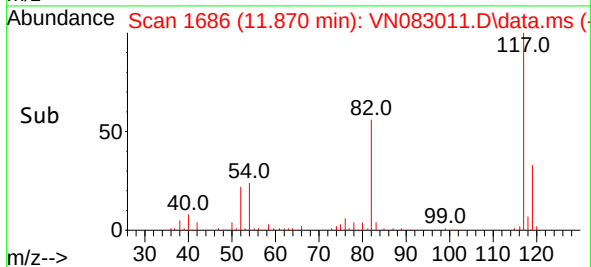
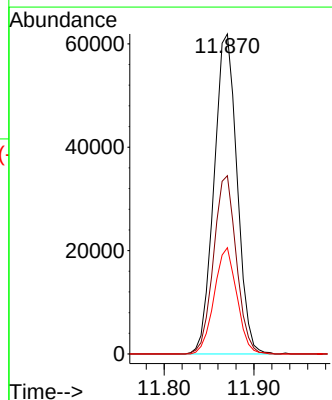
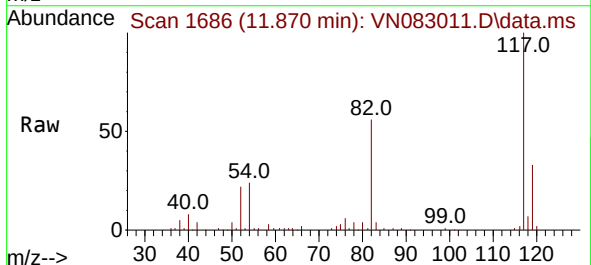
Instrument :  
MSVOA\_N  
ClientSampleId :

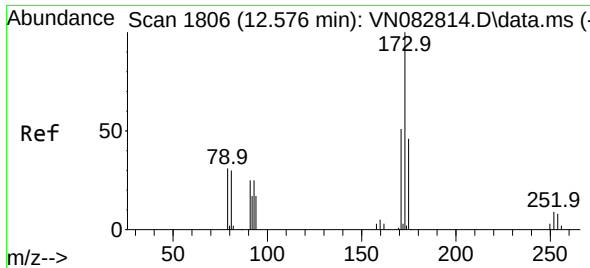
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 42966 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 85.2  | 0.0   | 159.2 |
| 176      | 80.3  | 0.0   | 147.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

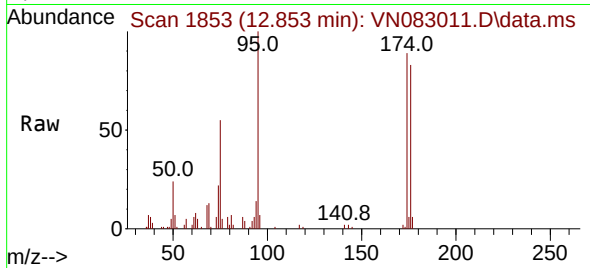
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 110286 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 55.7  | 47.5  | 71.3   |
| 119      | 33.2  | 25.6  | 38.4   |



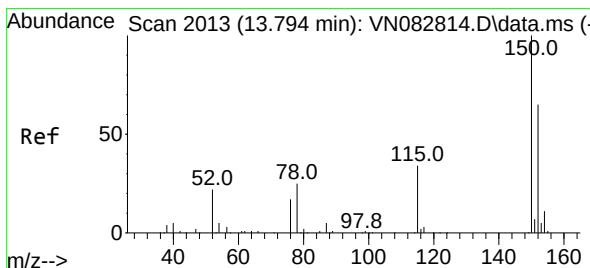
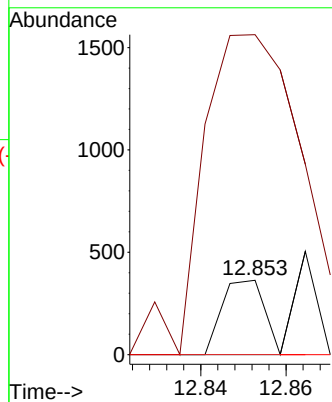
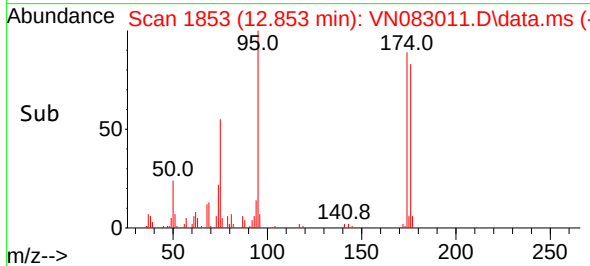


#71  
Bromoform  
Concen: 0.380 ug/l  
RT: 12.853 min Scan# 1806  
Delta R.T. 0.271 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :

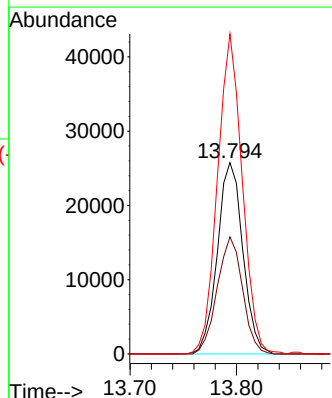
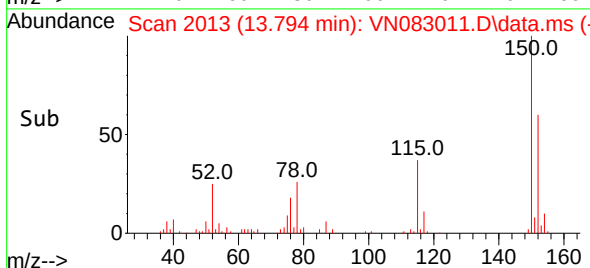
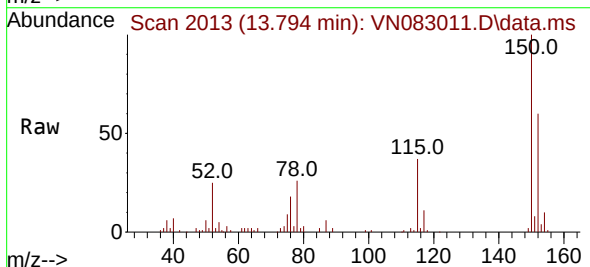


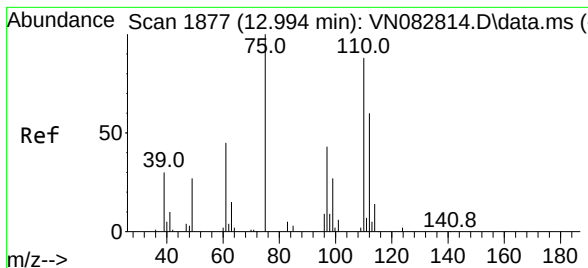
Tgt Ion:173 Resp: 251  
Ion Ratio Lower Upper  
173 100  
175 829.1 24.0 72.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

Tgt Ion:152 Resp: 42709  
Ion Ratio Lower Upper  
152 100  
115 60.9 30.6 91.6  
150 162.2 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 34.328 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

Instrument :

MSVOA\_N

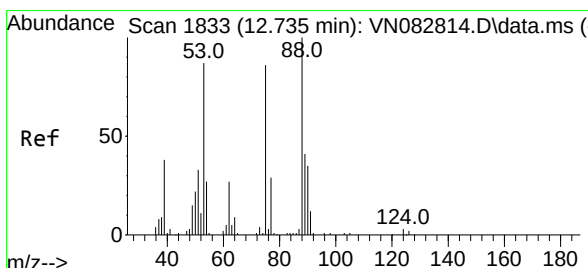
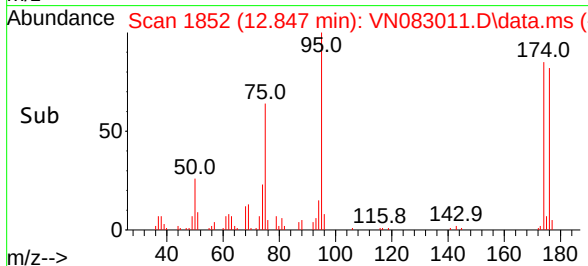
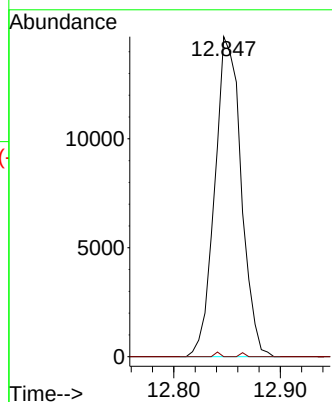
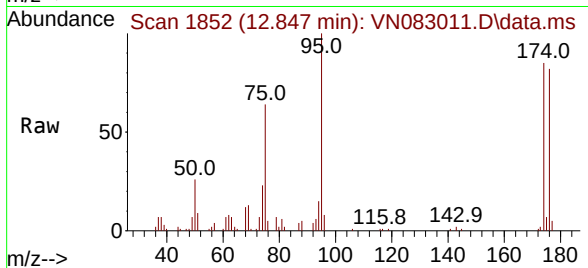
ClientSampleId :

Tgt Ion: 75 Resp: 25277

Ion Ratio Lower Upper

75 100

77 0.3 110.9 332.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.514 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

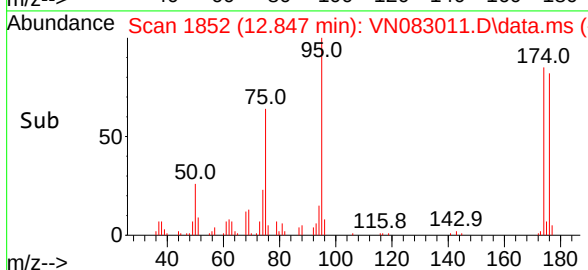
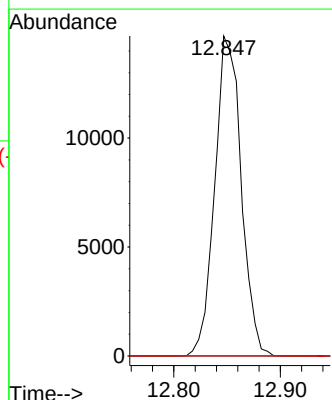
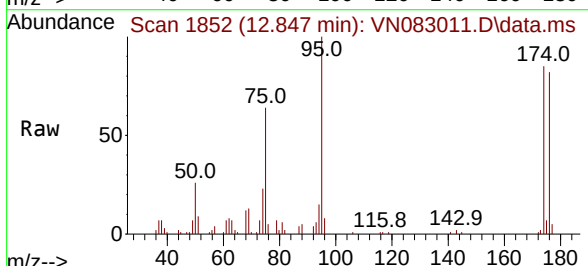
Tgt Ion: 75 Resp: 25277

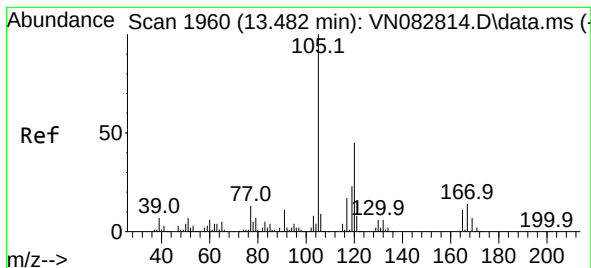
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 36.3 54.5#





#84

1,2,4-Trimethylbenzene

Concen: 0.207 ug/l

RT: 13.623 min Scan# 1960

Delta R.T. 0.141 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

Instrument :

MSVOA\_N

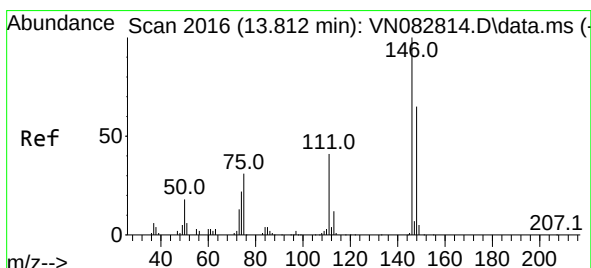
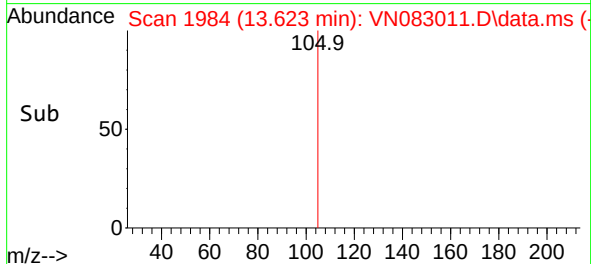
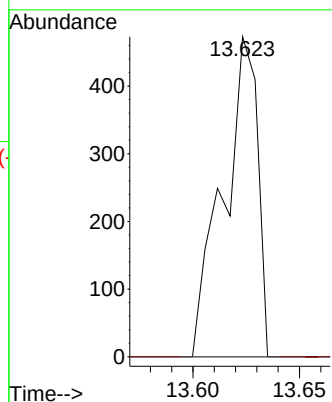
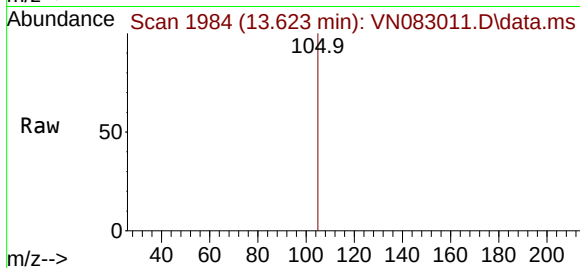
ClientSampleId :

Tgt Ion:105 Resp: 529

Ion Ratio Lower Upper

105 100

120 0.0 21.9 65.8#



#88

1,4-Dichlorobenzene

Concen: 0.265 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.001 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

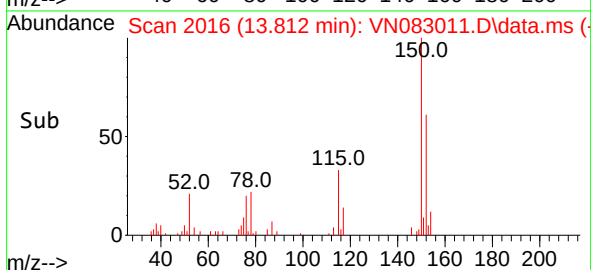
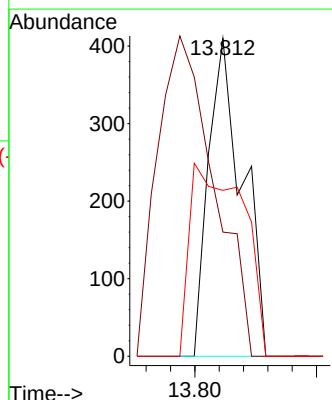
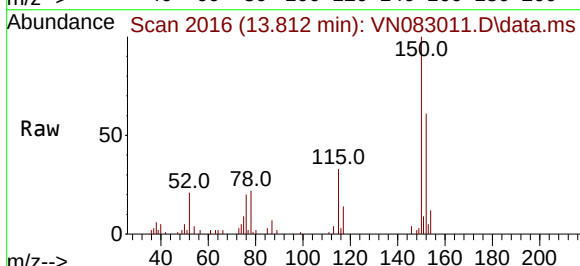
Tgt Ion:146 Resp: 397

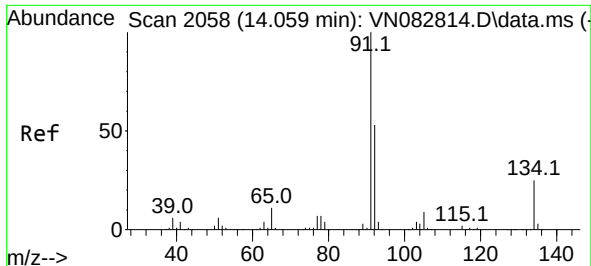
Ion Ratio Lower Upper

146 100

111 167.8 20.1 60.3#

148 95.5 32.2 96.6





#89

n-Butylbenzene

Concen: 0.214 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.005 min

Lab File: VN083011.D

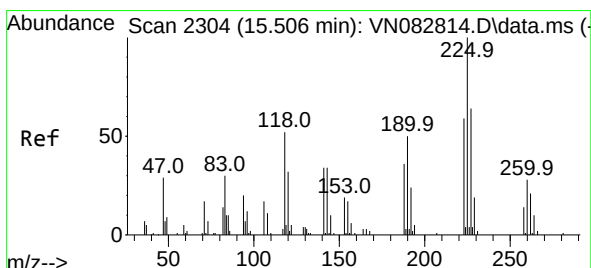
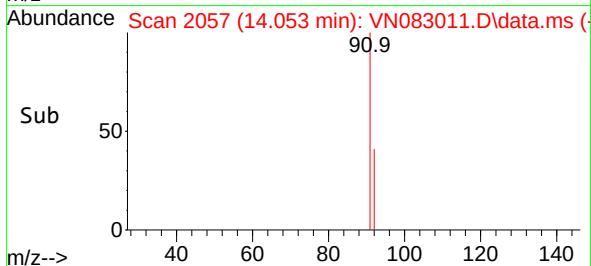
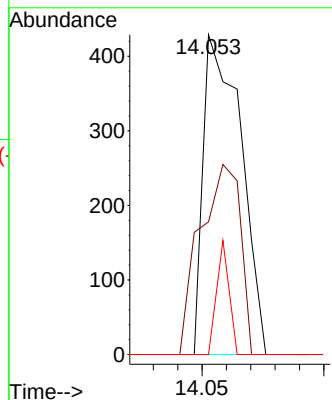
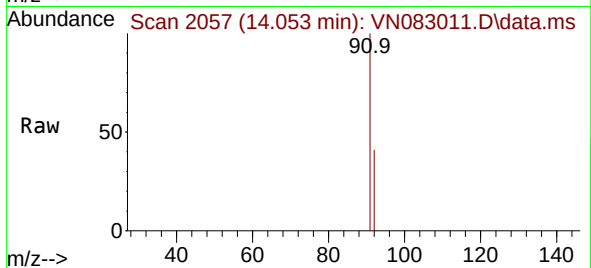
Acq: 23 Jul 2024 13:37

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 460   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 63.7  | 26.1  | 78.3  |
| 134      | 11.7  | 12.1  | 36.3# |



#94

Hexachlorobutadiene

Concen: 0.650 ug/l

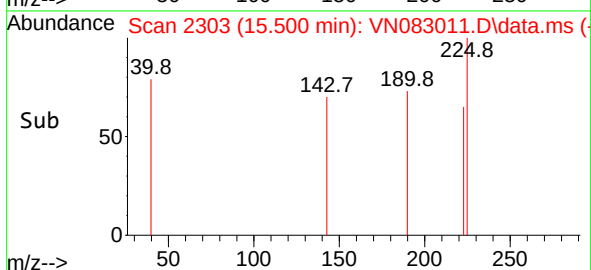
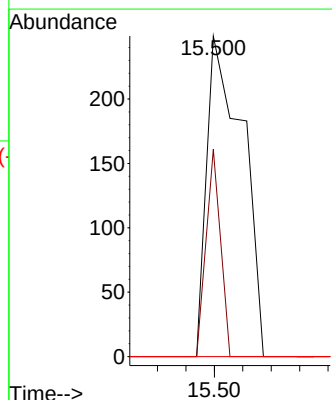
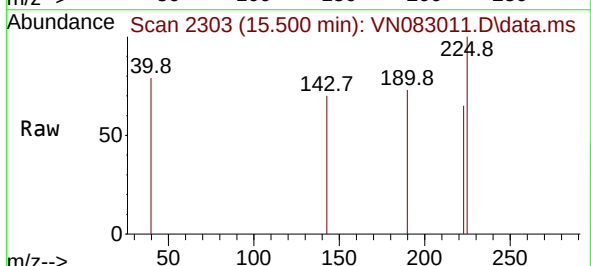
RT: 15.500 min Scan# 2303

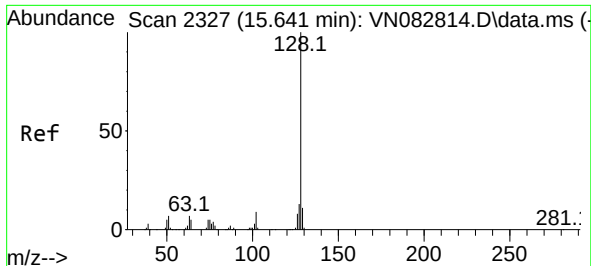
Delta R.T. -0.005 min

Lab File: VN083011.D

Acq: 23 Jul 2024 13:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 218   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 26.1  | 31.9  | 95.7# |
| 227      | 0.0   | 32.5  | 97.5# |

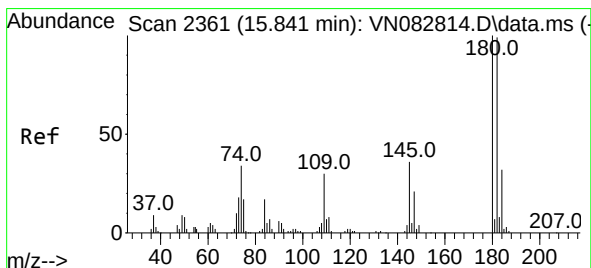
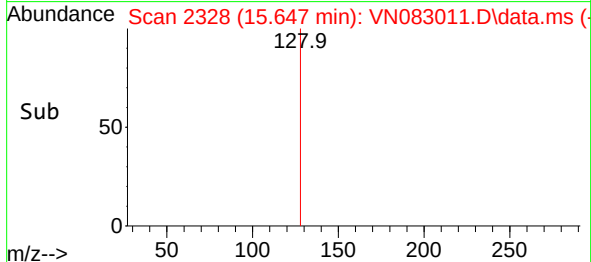
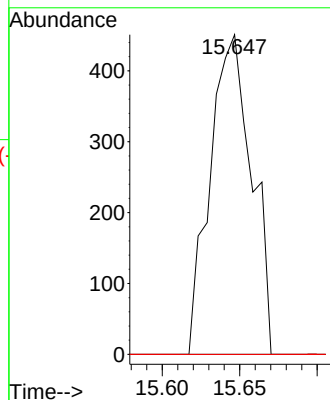
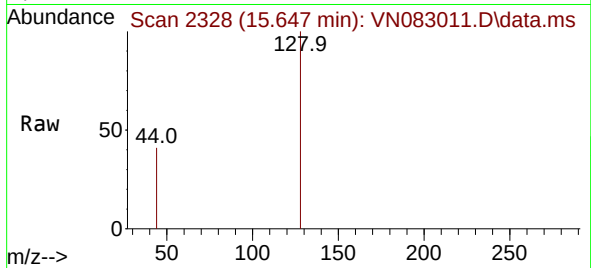




#95  
Naphthalene  
Concen: 0.325 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. 0.006 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 843  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 12.8#



#96  
1,2,3-Trichlorobenzene  
Concen: 0.302 ug/l  
RT: 15.841 min Scan# 2361  
Delta R.T. -0.000 min  
Lab File: VN083011.D  
Acq: 23 Jul 2024 13:37

Tgt Ion:180 Resp: 235  
Ion Ratio Lower Upper  
180 100  
182 54.5 48.9 146.8  
145 0.0 16.8 50.4#

