

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120222\  
 Data File : VN075524.D  
 Acq On : 02 Dec 2022 11:57  
 Operator : JC\MD  
 Sample : VN1202WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1202WBL01

Quant Time: Dec 03 00:30:01 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

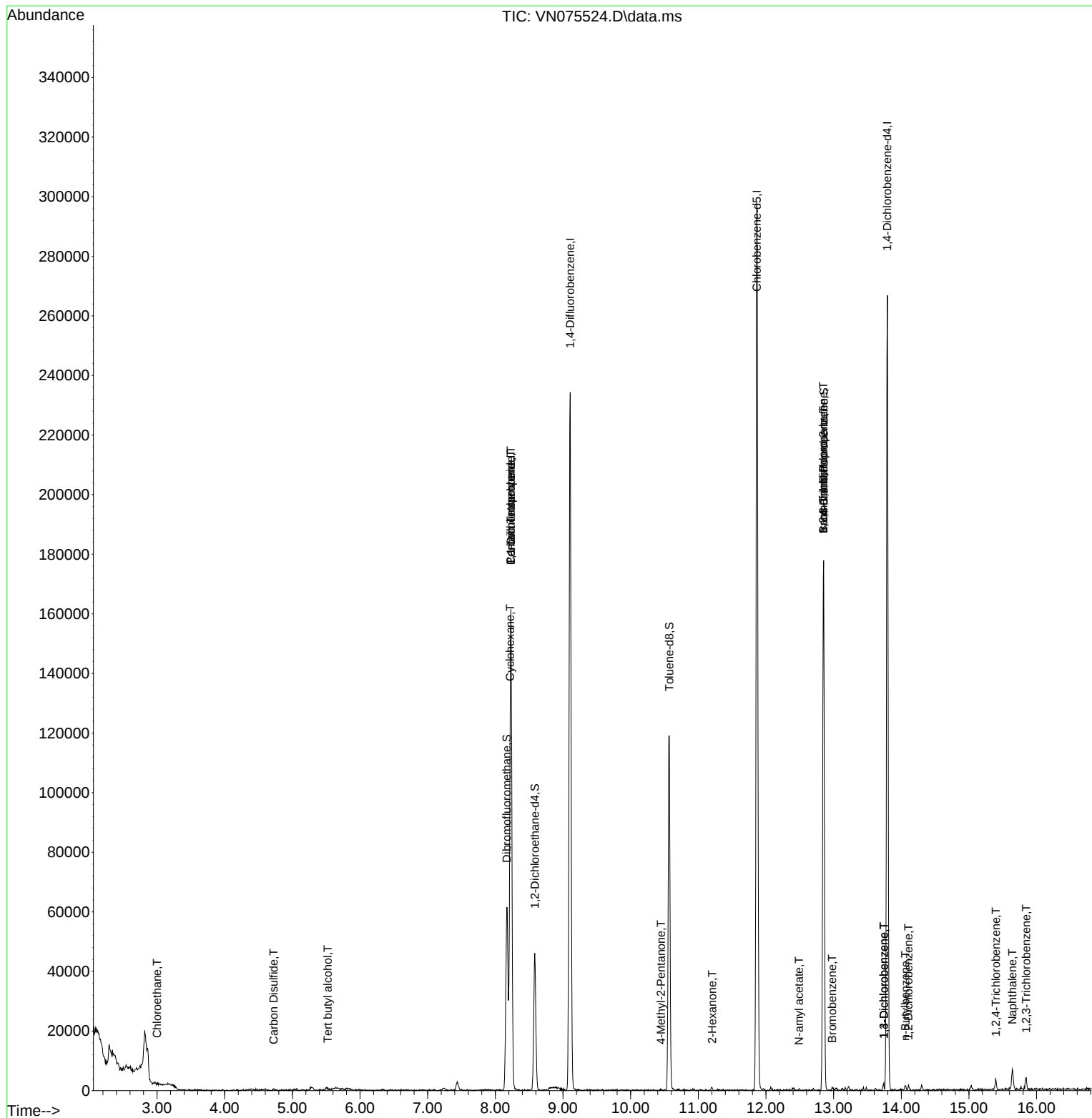
| Compound                      | R.T.           | QIon | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------|------------|--------|----------|
| -----                         |                |      |          |            |        |          |
| Internal Standards            |                |      |          |            |        |          |
| 1) Pentafluorobenzene         | 8.229          | 168  | 122555   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 213669   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 185937   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 74511    | 50.000     | ug/l   | 0.00     |
|                               |                |      |          |            |        |          |
| System Monitoring Compounds   |                |      |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 36102    | 54.878     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery | = 109.760% |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 44844    | 53.426     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery | = 106.860% |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 87963    | 46.529     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery | = 93.060%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 60601    | 43.430     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery | = 86.860%  |        |          |
|                               |                |      |          |            |        |          |
| Target Compounds              |                |      |          |            |        | Qvalue   |
| 6) Chloroethane               | 3.000          | 64   | 343      | 0.308      | ug/l # | 45       |
| 11) Tert butyl alcohol        | 5.524          | 59   | 101      | 0.366      | ug/l # | 72       |
| 17) Carbon Disulfide          | 4.724          | 76   | 663      | 0.225      | ug/l # | 74       |
| 18) Methyl Acetate            | 5.047          | 43   | 626      | Below Cal  | #      | 47       |
| 20) Methylene Chloride        | 5.277          | 84   | 725      | Below Cal  | #      | 65       |
| 31) Cyclohexane               | 8.218          | 56   | 2339     | 1.119      | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 8.229          | 75   | 8866     | 4.844      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.229          | 117  | 12034    | 5.985      | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 387      | 0.230      | ug/l # | 58       |
| 59) 2-Hexanone                | 11.206         | 43   | 991      | 0.783      | ug/l   | 84       |
| 71) Bromoform                 | 12.847         | 173  | 368      | 0.337      | ug/l # | 28       |
| 74) N-amyl acetate            | 12.488         | 43   | 403      | 0.241      | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 30546    | 21.682     | ug/l # | 1        |
| 77) Bromobenzene              | 12.976         | 156  | 296      | 0.220      | ug/l # | 78       |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 30546    | 64.153     | ug/l # | 10       |
| 87) 1,3-Dichlorobenzene       | 13.741         | 146  | 1033     | 0.406      | ug/l   | 77       |
| 88) 1,4-Dichlorobenzene       | 13.741         | 146  | 1033     | 0.399      | ug/l   | 76       |
| 89) n-Butylbenzene            | 14.059         | 91   | 1236     | 0.311      | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 14.106         | 146  | 1113     | 0.448      | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 15.400         | 180  | 1294     | 1.017      | ug/l   | 86       |
| 95) Naphthalene               | 15.641         | 128  | 7671     | 1.917      | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847         | 180  | 1732     | 1.385      | ug/l   | 82       |
| -----                         |                |      |          |            |        |          |

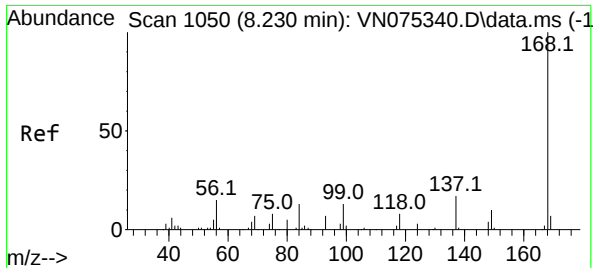
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
VN1202WBL01

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 23 00:18:03 2022  
Response via : Initial Calibration

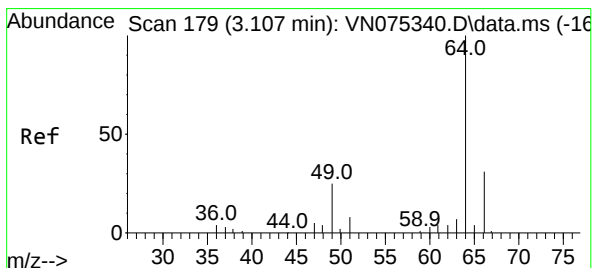
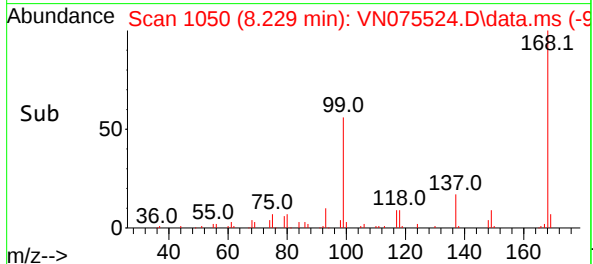
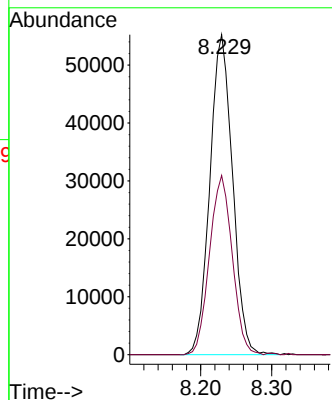
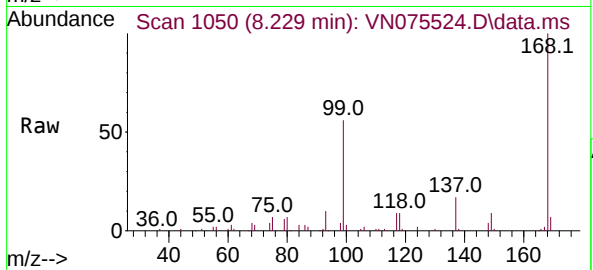




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.229 min Scan# 10  
Delta R.T. -0.001 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

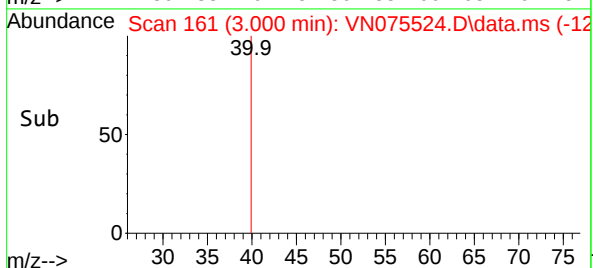
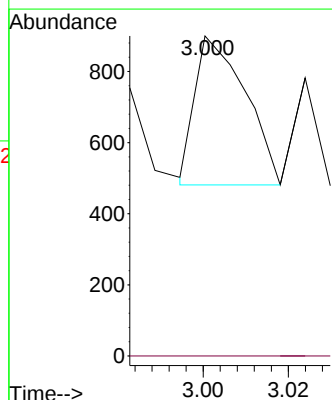
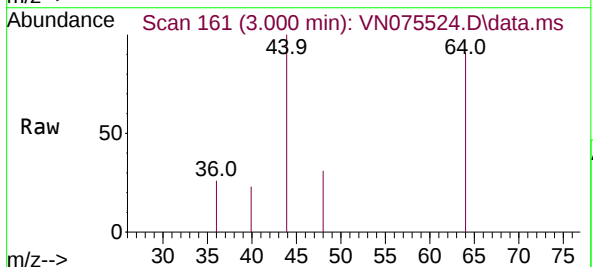
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

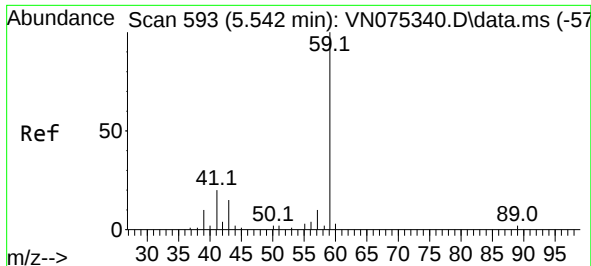
Tgt Ion:168 Resp: 122555  
Ion Ratio Lower Upper  
168 100  
99 56.0 51.6 77.4



#6  
Chloroethane  
Concen: 0.308 ug/l  
RT: 3.000 min Scan# 161  
Delta R.T. -0.107 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion: 64 Resp: 343  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.8 35.8#





#11

Tert butyl alcohol

Concen: 0.366 ug/l

RT: 5.524 min Scan# 59

Delta R.T. -0.018 min

Lab File: VN075524.D

Acq: 02 Dec 2022 11:57

Instrument :

MSVOA\_N

ClientSampleId :

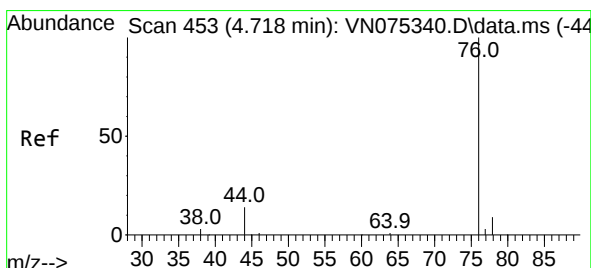
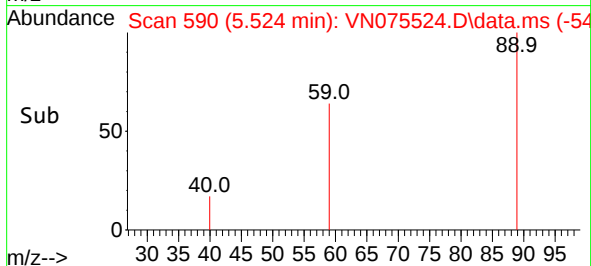
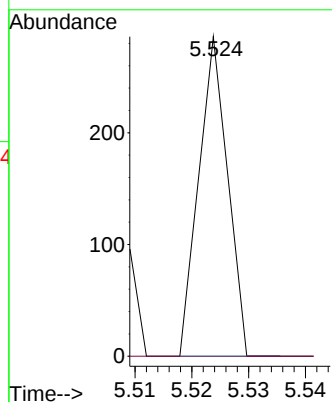
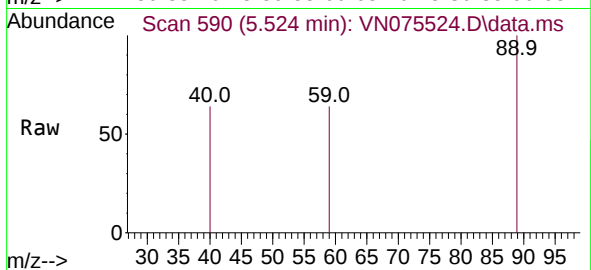
VN1202WBL01

Tgt Ion: 59 Resp: 101

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#17

Carbon Disulfide

Concen: 0.225 ug/l

RT: 4.724 min Scan# 454

Delta R.T. 0.006 min

Lab File: VN075524.D

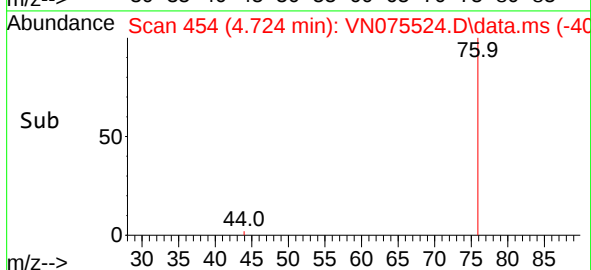
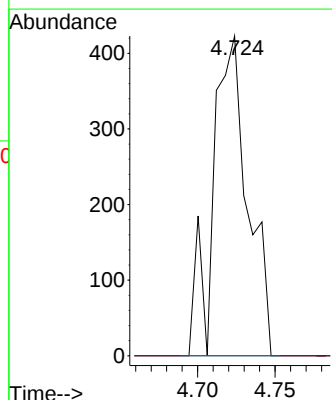
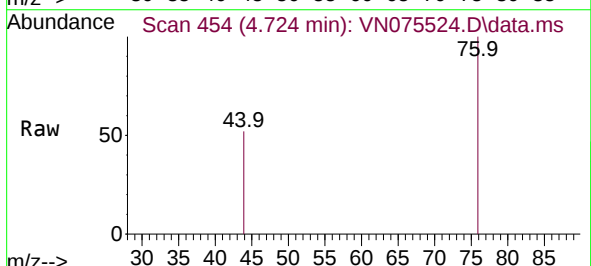
Acq: 02 Dec 2022 11:57

Tgt Ion: 76 Resp: 663

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#

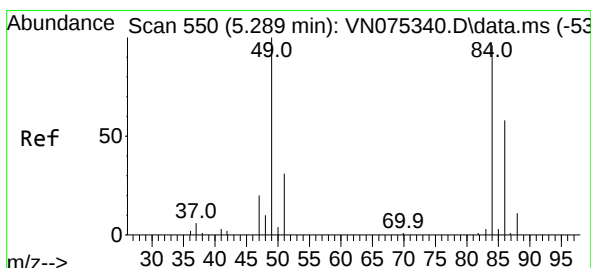
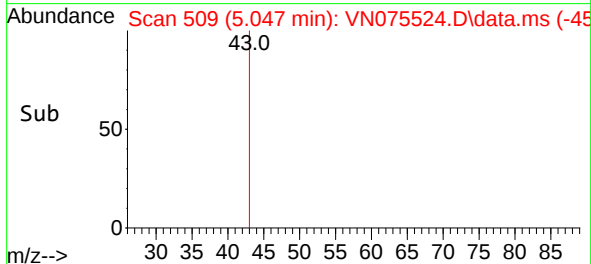
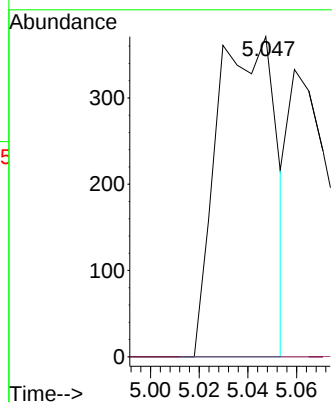
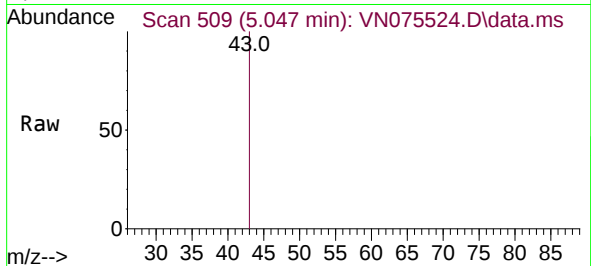




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.047 min Scan# 509  
Delta R.T. 0.011 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

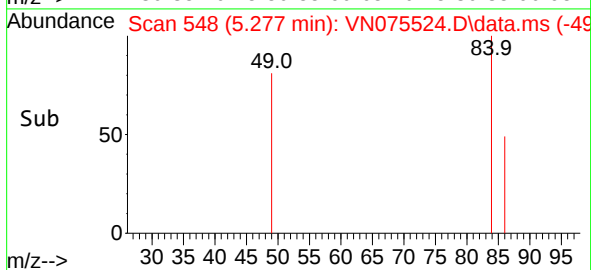
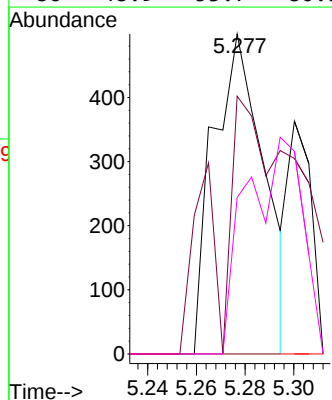
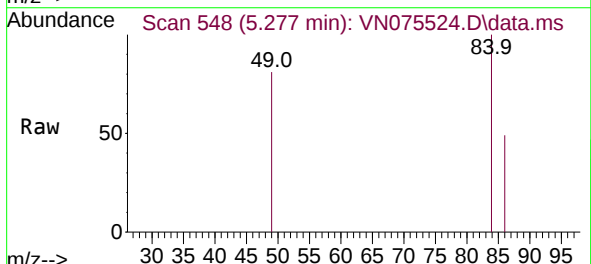
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

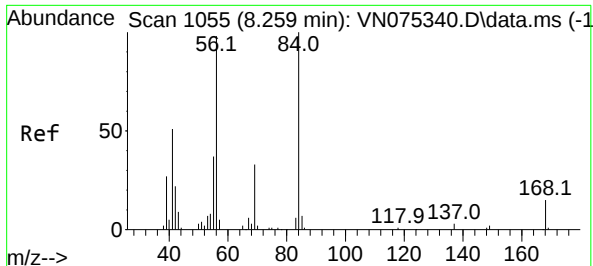
Tgt Ion: 43 Resp: 626  
Ion Ratio Lower Upper  
43 100  
74 0.0 22.0 33.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.277 min Scan# 548  
Delta R.T. -0.012 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

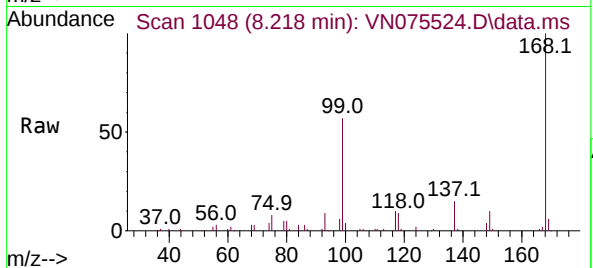
Tgt Ion: 84 Resp: 725  
Ion Ratio Lower Upper  
84 100  
49 80.6 94.9 142.3#  
51 0.0 26.8 40.2#  
86 48.9 53.7 80.5#



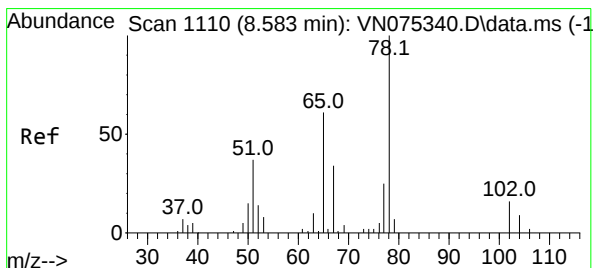
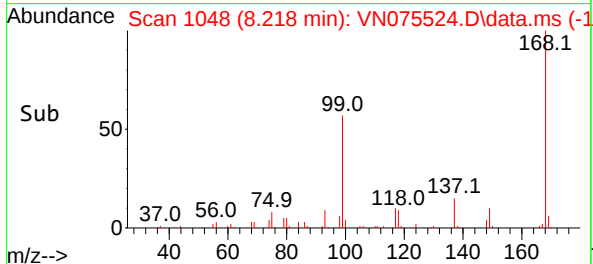
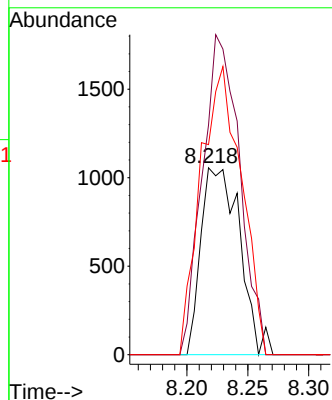


#31  
Cyclohexane  
Concen: 1.119 ug/l  
RT: 8.218 min Scan# 1048  
Delta R.T. -0.041 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

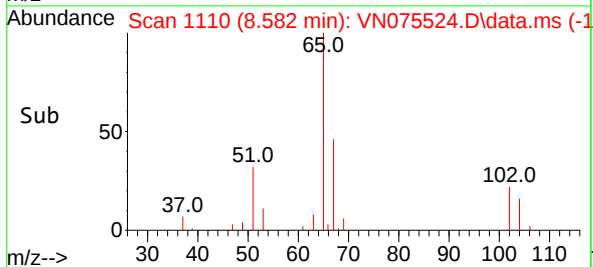
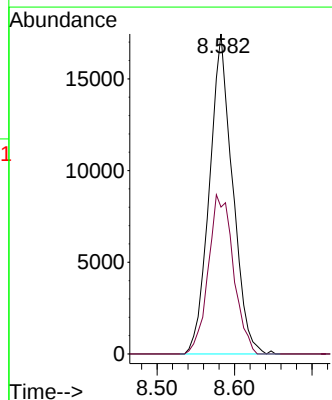
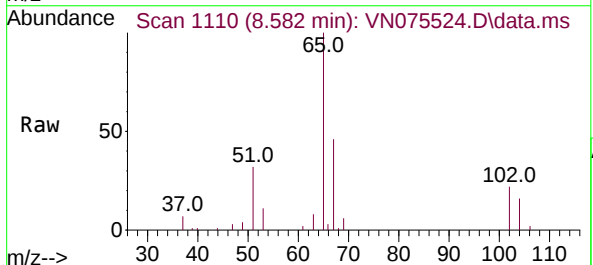


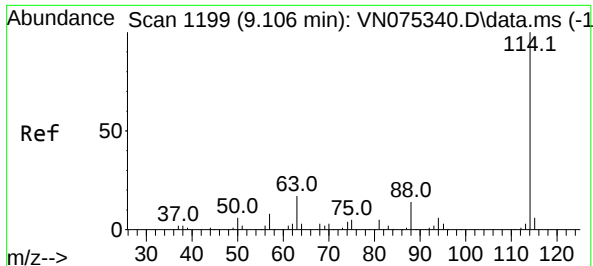
Tgt Ion: 56 Resp: 2339  
Ion Ratio Lower Upper  
56 100  
69 122.8 25.2 37.8#  
84 112.4 77.8 116.8



#33  
1,2-Dichloroethane-d4  
Concen: 54.878 ug/l  
RT: 8.582 min Scan# 1110  
Delta R.T. -0.001 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion: 65 Resp: 36102  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075524.D

Acq: 02 Dec 2022 11:57

Instrument :

MSVOA\_N

ClientSampleId :

VN1202WBL01

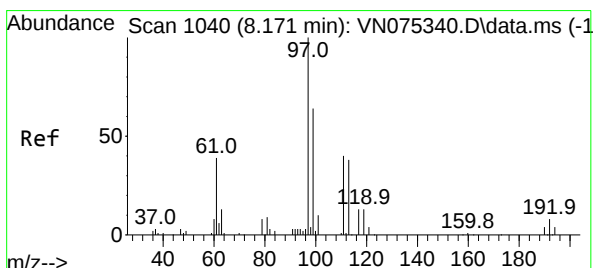
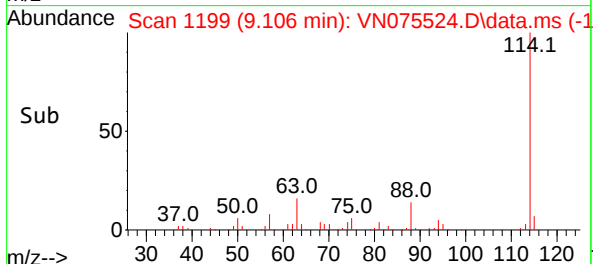
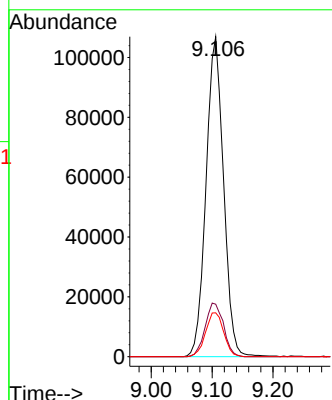
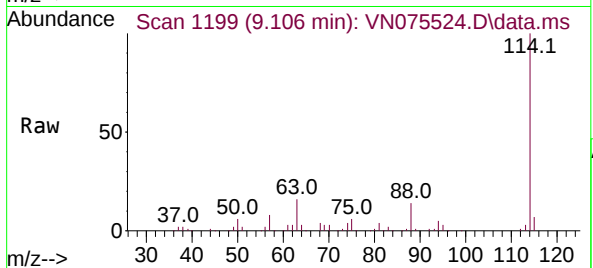
Tgt Ion:114 Resp: 213669

Ion Ratio Lower Upper

114 100

63 16.4 0.0 39.6

88 13.7 0.0 29.0



#35

Dibromofluoromethane

Concen: 53.426 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075524.D

Acq: 02 Dec 2022 11:57

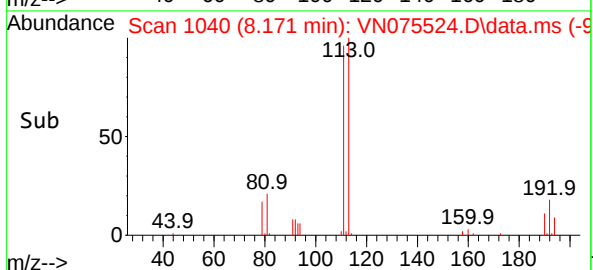
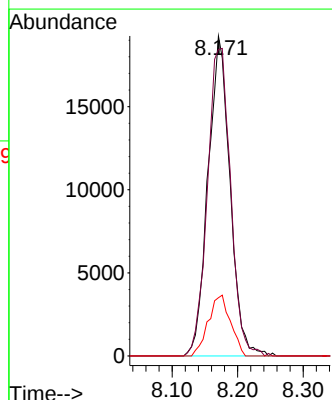
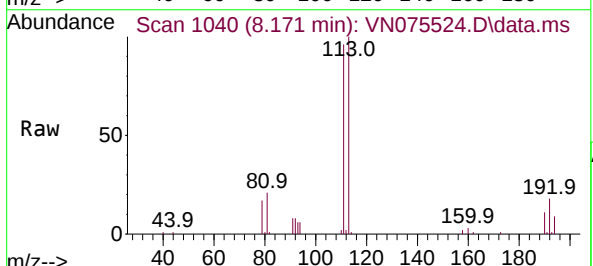
Tgt Ion:113 Resp: 44844

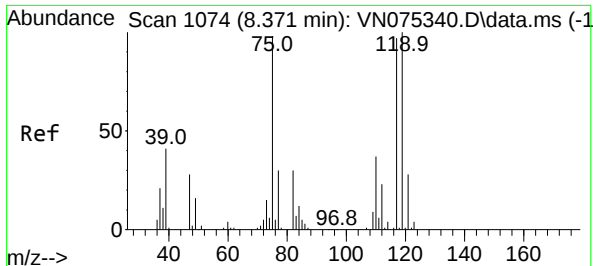
Ion Ratio Lower Upper

113 100

111 101.6 80.5 120.7

192 19.2 13.2 19.8





#36

1,1-Dichloropropene

Concen: 4.844 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.142 min

Lab File: VN075524.D

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VN1202WBL01

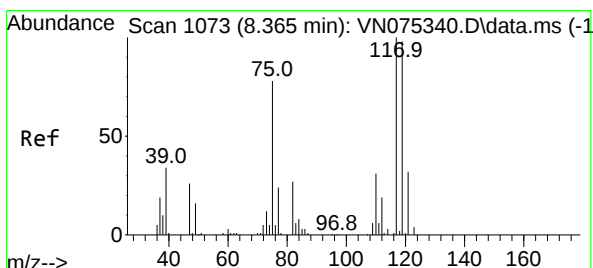
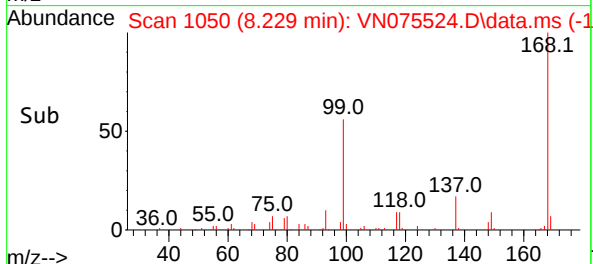
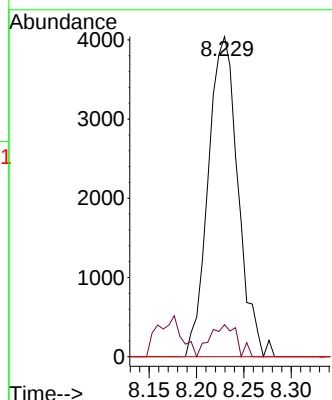
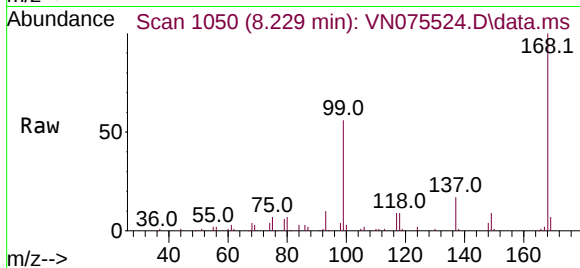
Tgt Ion: 75 Resp: 8866

Ion Ratio Lower Upper

75 100

110 9.1 17.8 53.3#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.985 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.136 min

Lab File: VN075524.D

Acq: 02 Dec 2022 11:57

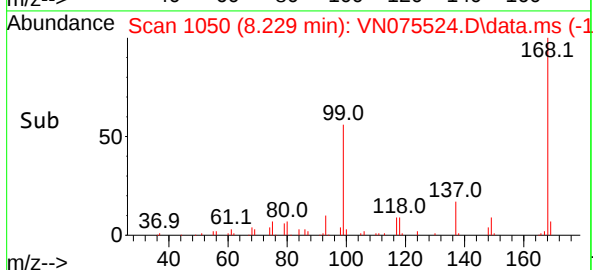
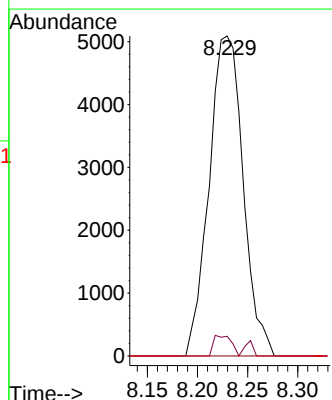
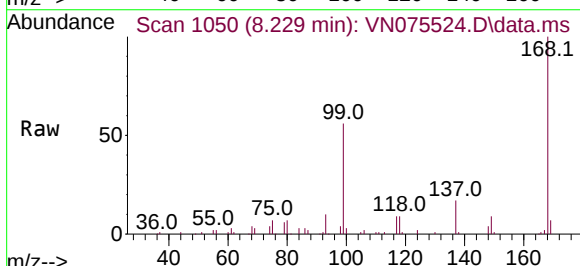
Tgt Ion: 117 Resp: 12034

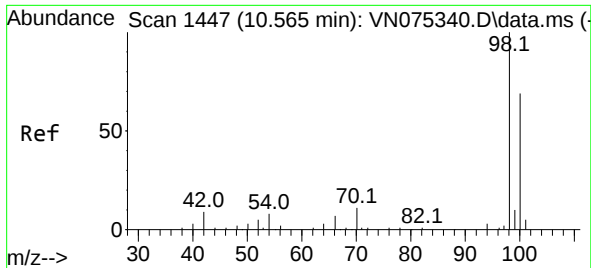
Ion Ratio Lower Upper

117 100

119 6.2 76.7 115.1#

121 0.0 23.9 35.9#

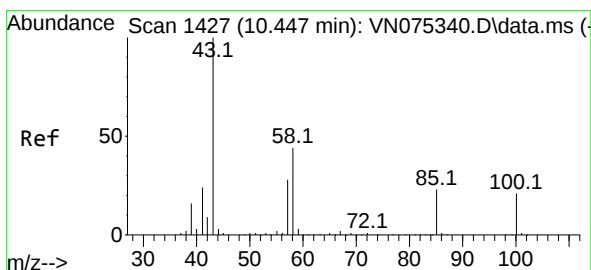
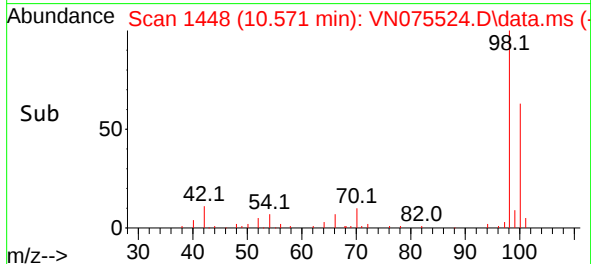
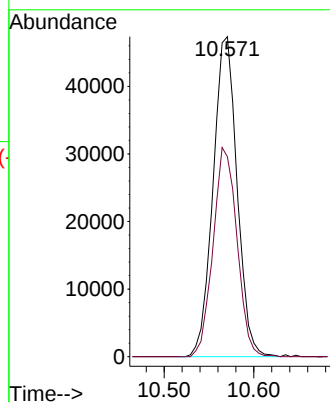
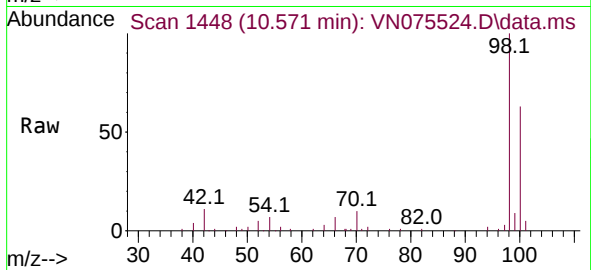




#50  
Toluene-d8  
Concen: 46.529 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. 0.006 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

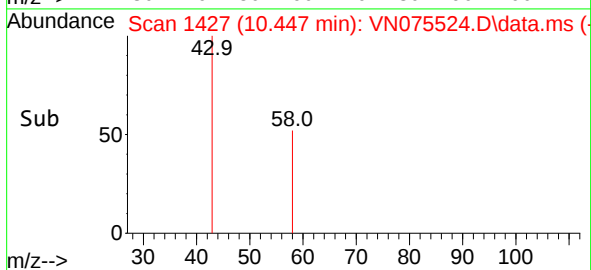
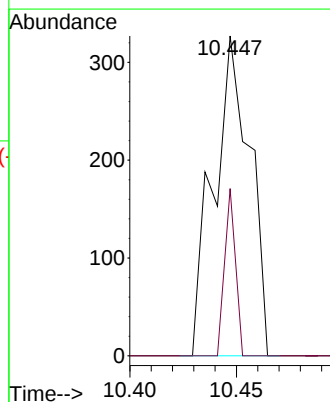
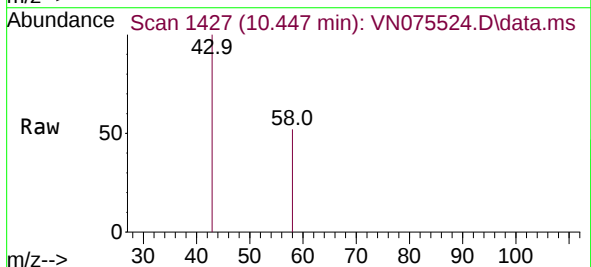
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

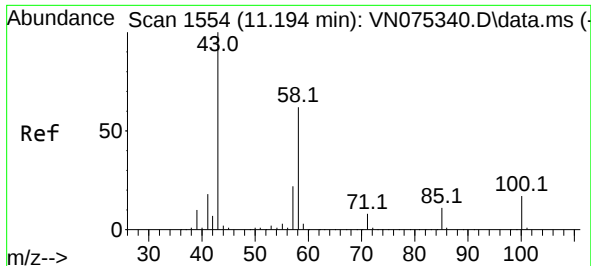
Tgt Ion: 98 Resp: 87963  
Ion Ratio Lower Upper  
98 100  
100 65.0 53.0 79.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.230 ug/l  
RT: 10.447 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion: 43 Resp: 387  
Ion Ratio Lower Upper  
43 100  
58 15.5 33.6 50.4#

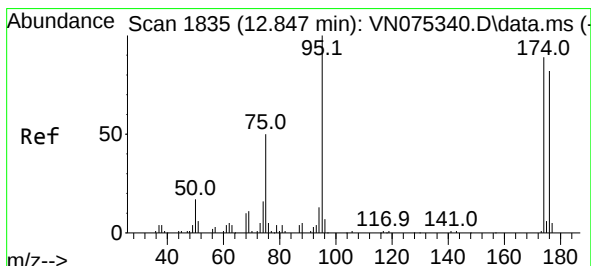
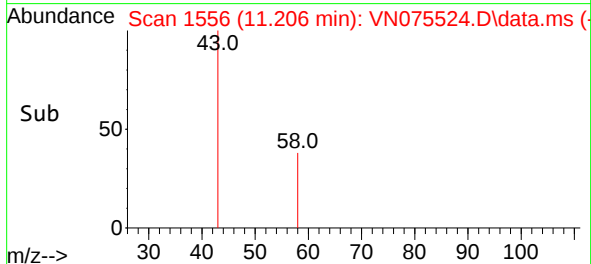
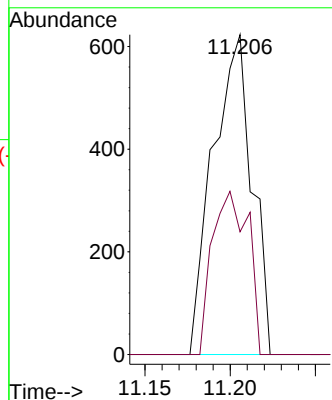
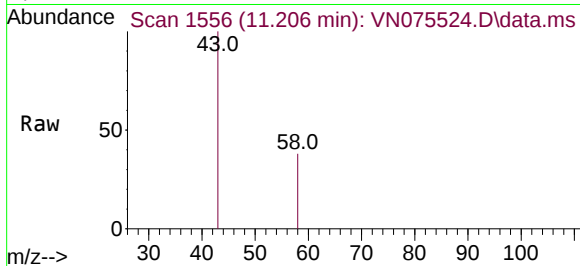




#59  
2-Hexanone  
Concen: 0.783 ug/l  
RT: 11.206 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

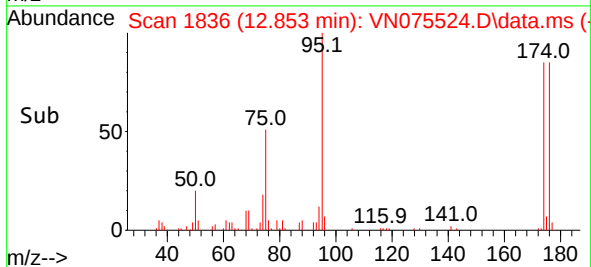
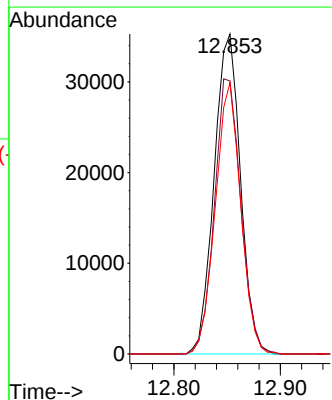
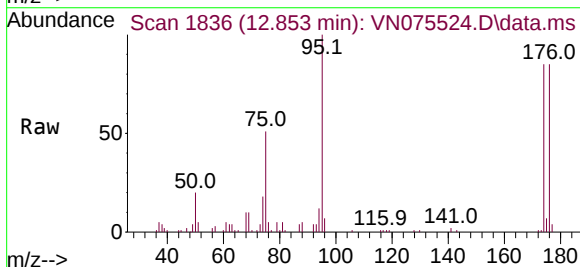
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

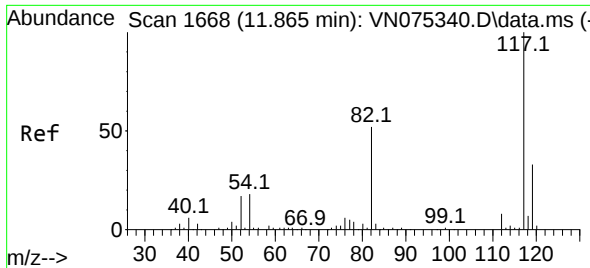
Tgt Ion: 43 Resp: 991  
Ion Ratio Lower Upper  
43 100  
58 47.0 29.6 88.8



#62  
4-Bromofluorobenzene  
Concen: 43.430 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.006 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion: 95 Resp: 60601  
Ion Ratio Lower Upper  
95 100  
174 86.1 0.0 147.4  
176 81.8 0.0 142.2

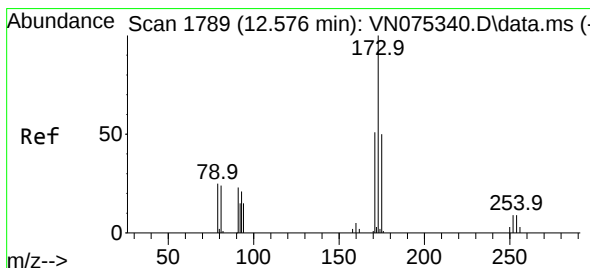
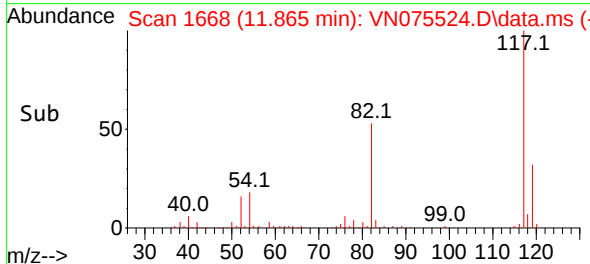
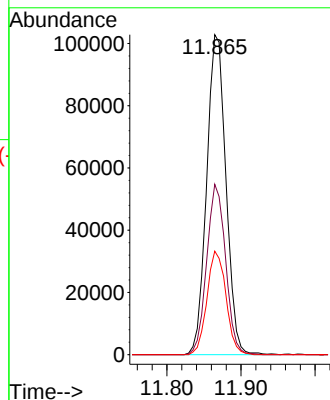
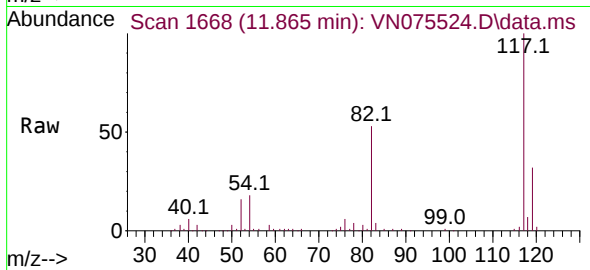




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

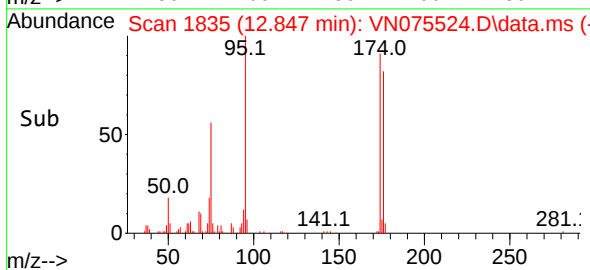
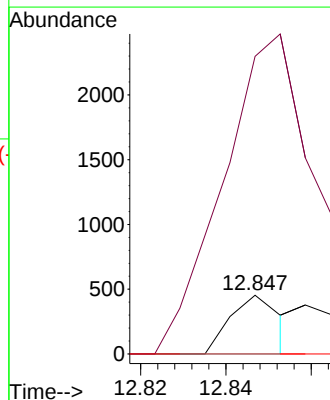
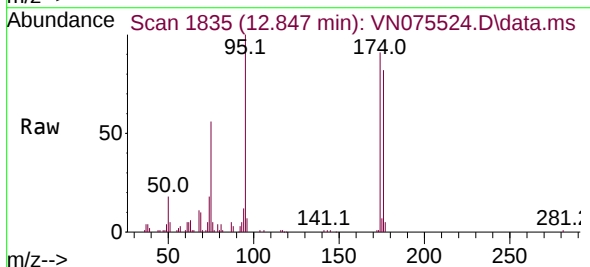
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

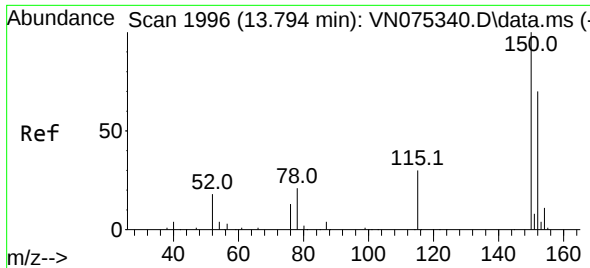
Tgt Ion:117 Resp: 185937  
Ion Ratio Lower Upper  
117 100  
82 53.2 43.1 64.7  
119 32.4 25.5 38.3



#71  
Bromoform  
Concen: 0.337 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. 0.271 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion:173 Resp: 368  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 74.0#  
254 0.0 0.0 0.0

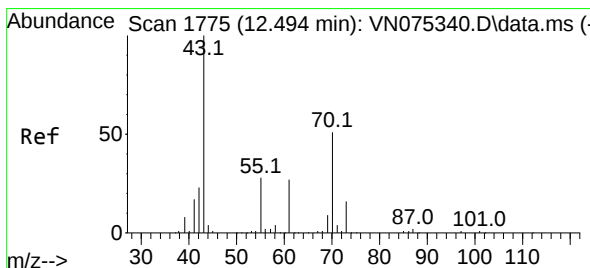
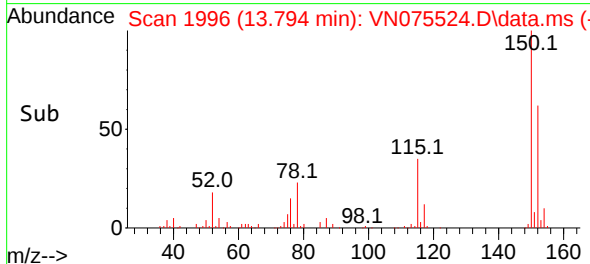
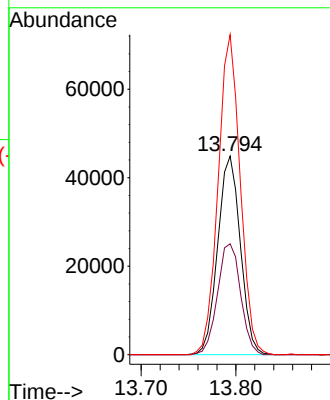
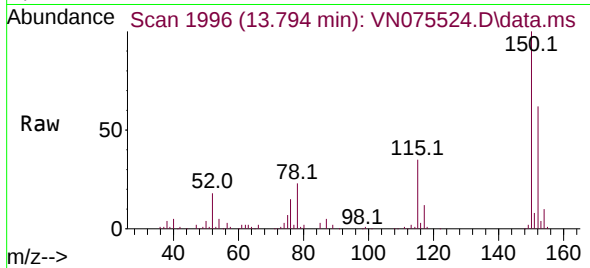




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

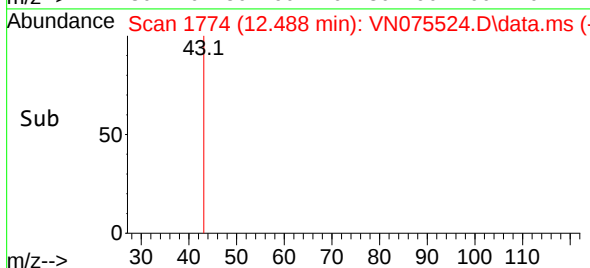
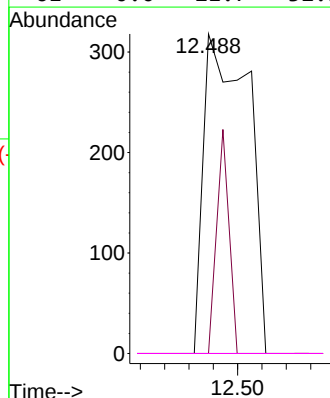
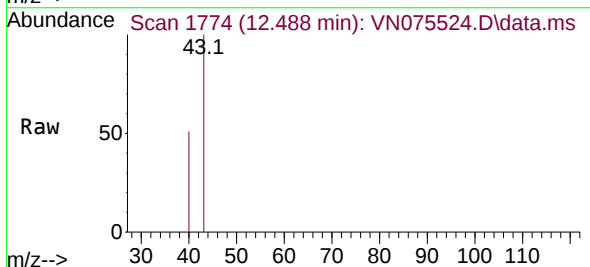
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

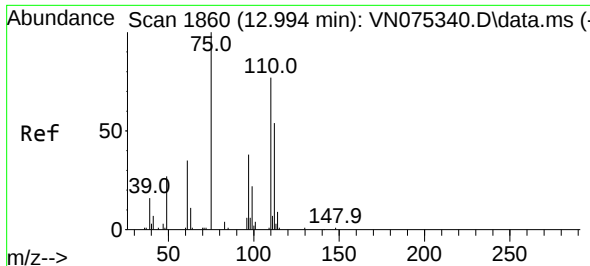
Tgt Ion:152 Resp: 74511  
Ion Ratio Lower Upper  
152 100  
115 57.1 30.2 90.6  
150 157.3 0.0 348.4



#74  
N-ethyl acetate  
Concen: 0.241 ug/l  
RT: 12.488 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion: 43 Resp: 403  
Ion Ratio Lower Upper  
43 100  
70 19.6 39.8 59.8#  
55 0.0 19.9 29.9#  
61 0.0 21.7 32.5#

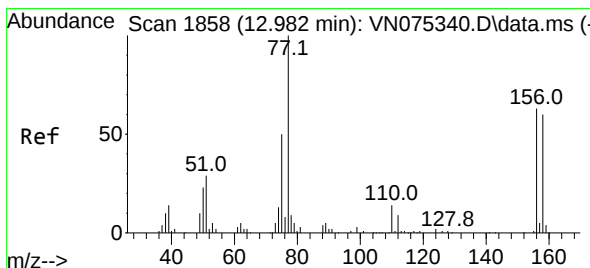
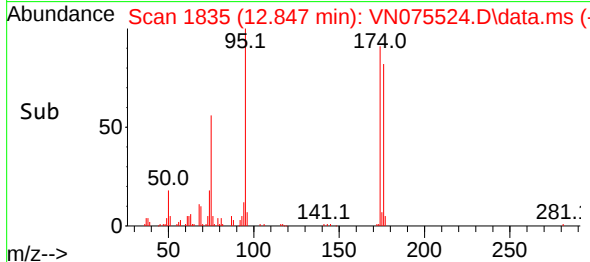
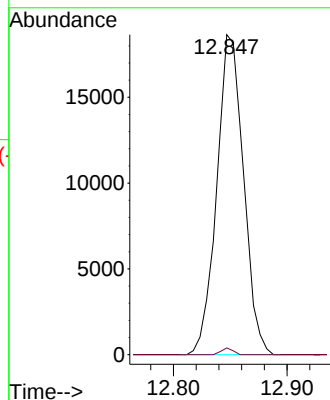
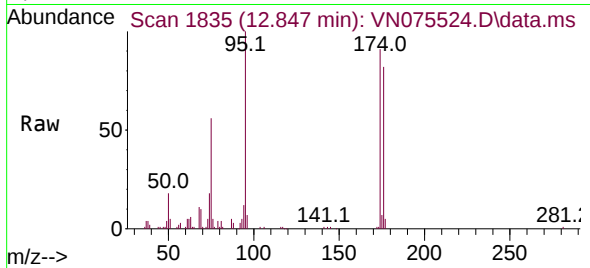




#76  
1,2,3-Trichloropropane  
Concen: 21.682 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.147 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

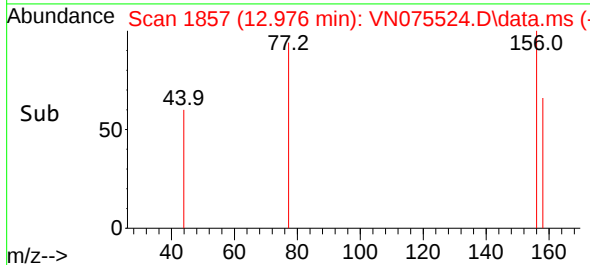
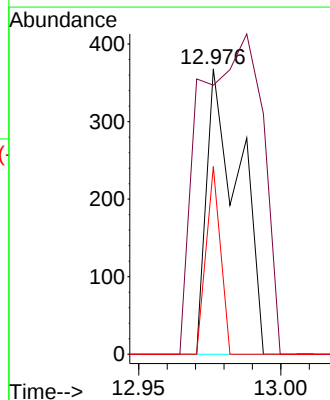
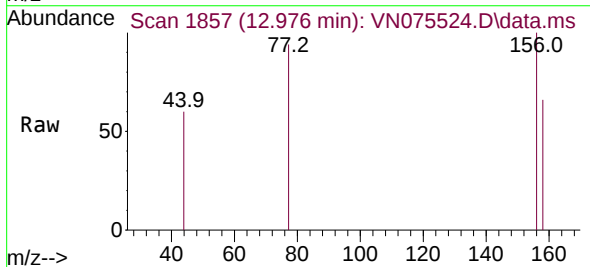
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

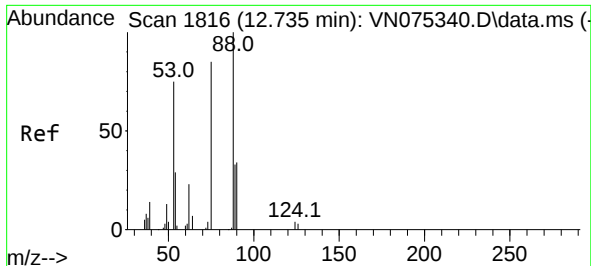
Tgt Ion: 75 Resp: 30546  
Ion Ratio Lower Upper  
75 100  
77 0.9 75.6 226.8#



#77  
Bromobenzene  
Concen: 0.220 ug/l  
RT: 12.976 min Scan# 1857  
Delta R.T. -0.006 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion: 156 Resp: 296  
Ion Ratio Lower Upper  
156 100  
77 213.5 108.5 325.5  
158 28.7 47.7 143.1#

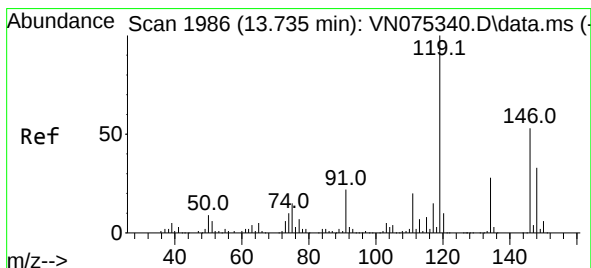
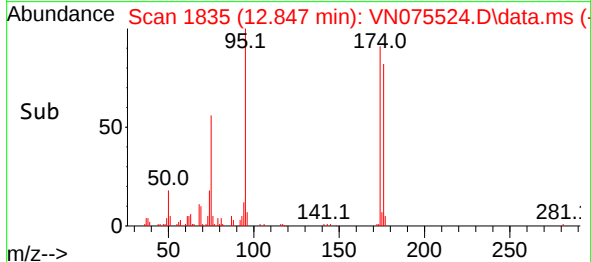
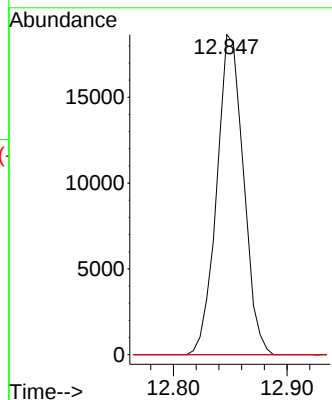
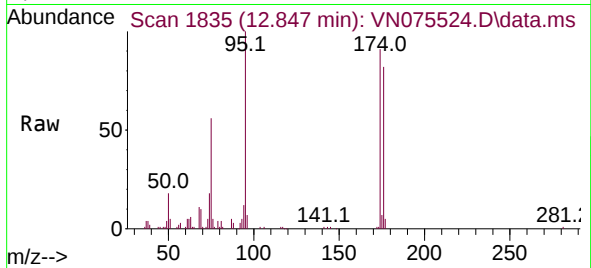




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.153 ug/l  
 RT: 12.847 min Scan# 1835  
 Delta R.T. 0.112 min  
 Lab File: VN075524.D  
 Acq: 02 Dec 2022 11:57

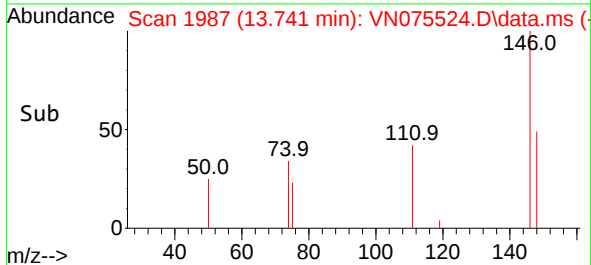
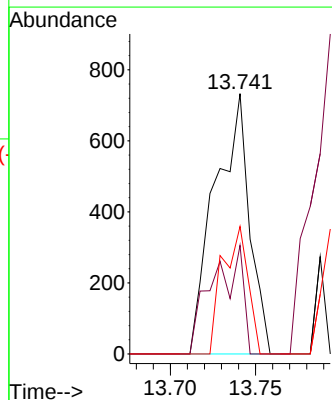
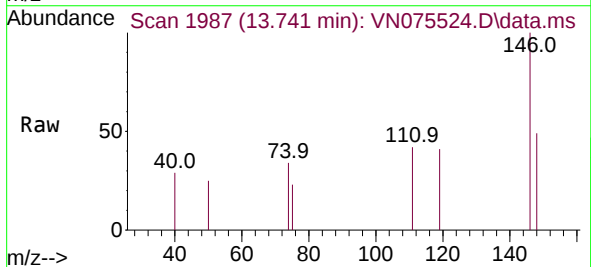
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1202WBL01

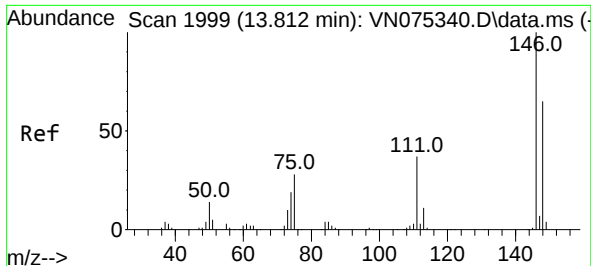
Tgt Ion: 75 Resp: 30546  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.5 117.7#  
 89 0.0 37.7 56.5#



#87  
 1,3-Dichlorobenzene  
 Concen: 0.406 ug/l  
 RT: 13.741 min Scan# 1987  
 Delta R.T. 0.006 min  
 Lab File: VN075524.D  
 Acq: 02 Dec 2022 11:57

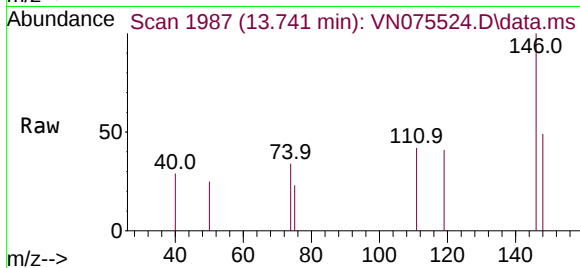
Tgt Ion:146 Resp: 1033  
 Ion Ratio Lower Upper  
 146 100  
 111 36.9 20.8 62.5  
 148 36.0 31.1 93.5



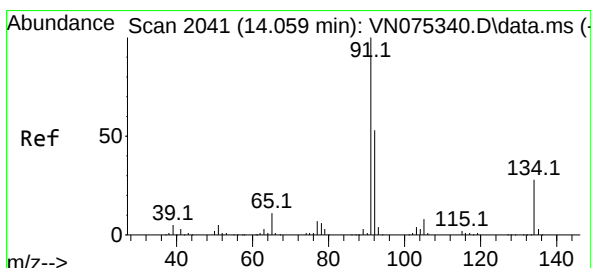
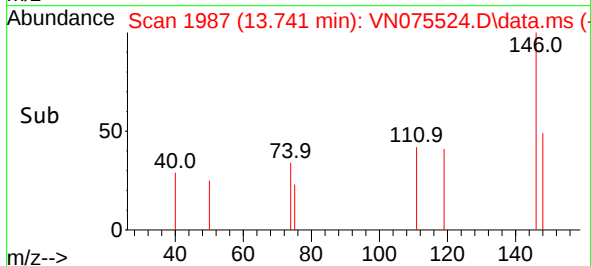
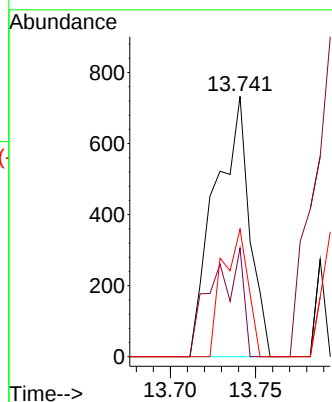


#88  
1,4-Dichlorobenzene  
Concen: 0.399 ug/l  
RT: 13.741 min Scan# 1999  
Delta R.T. -0.071 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

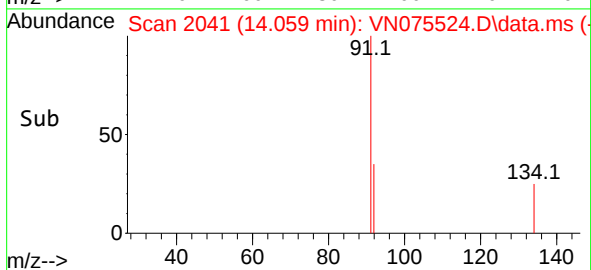
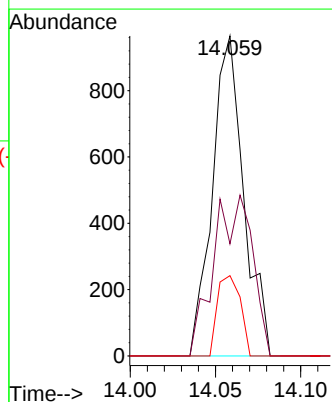
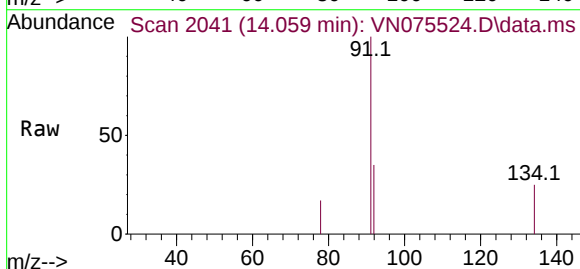


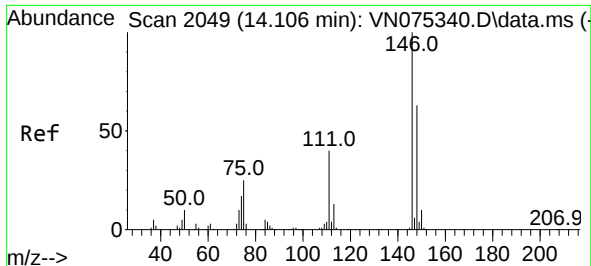
Tgt Ion:146 Resp: 1033  
Ion Ratio Lower Upper  
146 100  
111 36.9 20.1 60.3  
148 36.0 31.9 95.7



#89  
n-Butylbenzene  
Concen: 0.311 ug/l  
RT: 14.059 min Scan# 2041  
Delta R.T. -0.000 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Tgt Ion: 91 Resp: 1236  
Ion Ratio Lower Upper  
91 100  
92 62.0 26.5 79.4  
134 18.4 13.0 39.0





#91

1,2-Dichlorobenzene

Concen: 0.448 ug/l

RT: 14.106 min Scan# 2049

Delta R.T. -0.000 min

Lab File: VN075524.D

Acq: 02 Dec 2022 11:57

Instrument :

MSVOA\_N

ClientSampleId :

VN1202WBL01

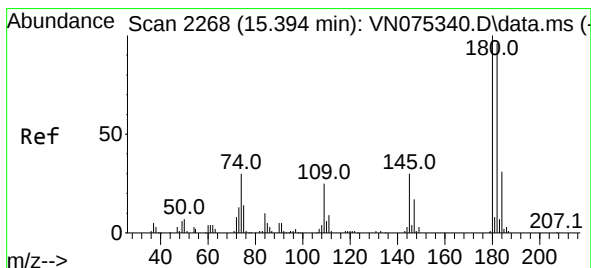
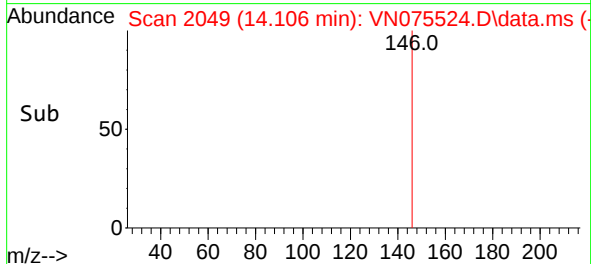
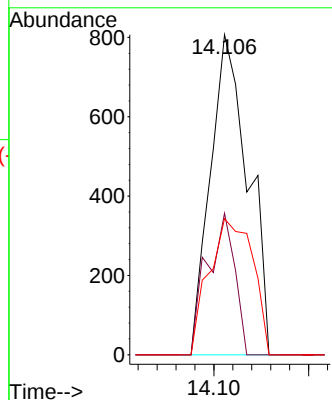
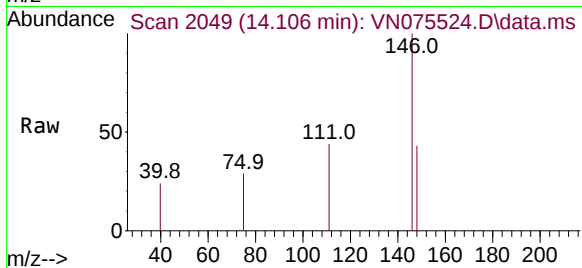
Tgt Ion:146 Resp: 1113

Ion Ratio Lower Upper

146 100

111 32.4 21.3 63.9

148 49.4 31.4 94.2



#93

1,2,4-Trichlorobenzene

Concen: 1.017 ug/l

RT: 15.400 min Scan# 2269

Delta R.T. 0.006 min

Lab File: VN075524.D

Acq: 02 Dec 2022 11:57

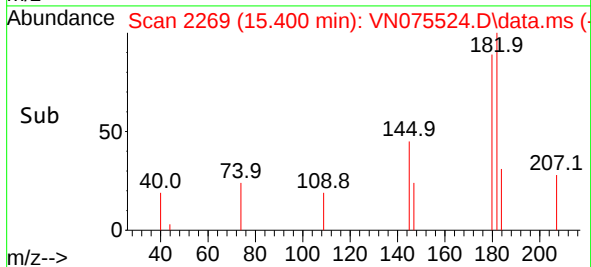
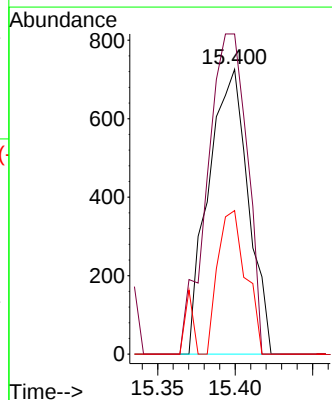
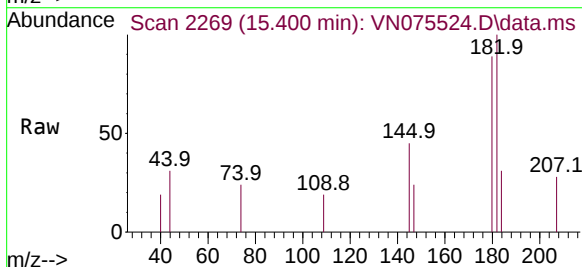
Tgt Ion:180 Resp: 1294

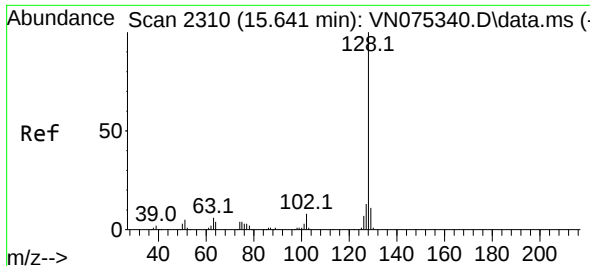
Ion Ratio Lower Upper

180 100

182 112.9 47.8 143.4

145 35.7 16.8 50.3

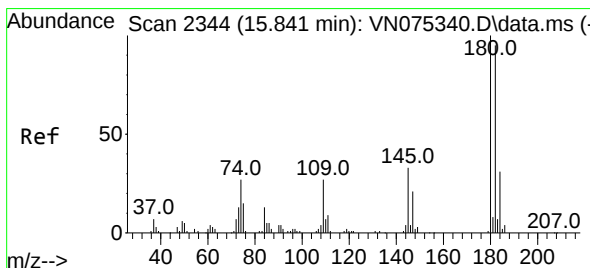
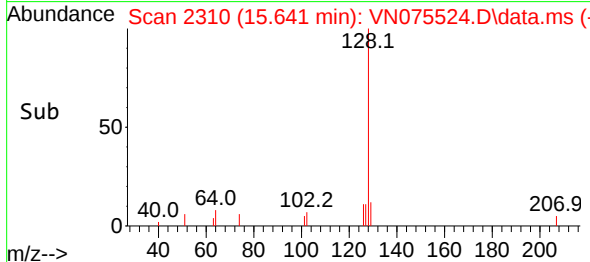
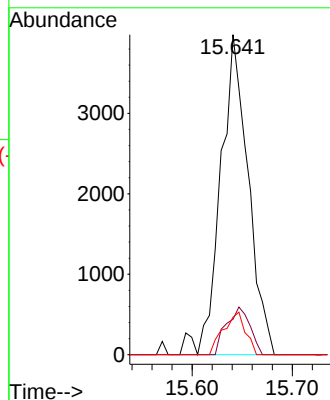
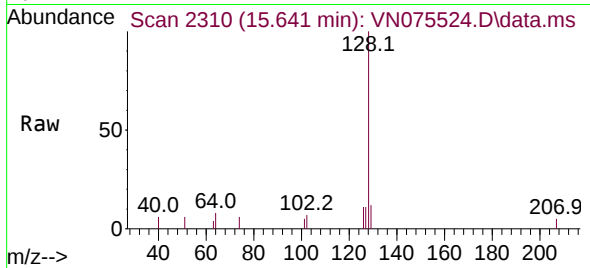




#95  
Naphthalene  
Concen: 1.917 ug/l  
RT: 15.641 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1202WBL01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7671  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.6  | 10.4  | 15.6  |
| 129      | 10.5  | 8.6   | 12.8  |



#96  
1,2,3-Trichlorobenzene  
Concen: 1.385 ug/l  
RT: 15.847 min Scan# 2345  
Delta R.T. 0.006 min  
Lab File: VN075524.D  
Acq: 02 Dec 2022 11:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1732  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 109.9 | 47.3  | 141.8 |
| 145      | 22.6  | 17.6  | 52.9  |

