

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120722\  
 Data File : VN075626.D  
 Acq On : 07 Dec 2022 23:08  
 Operator : JC\MD  
 Sample : VN1207WBL02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1207WBL02

Quant Time: Dec 08 00:25:30 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

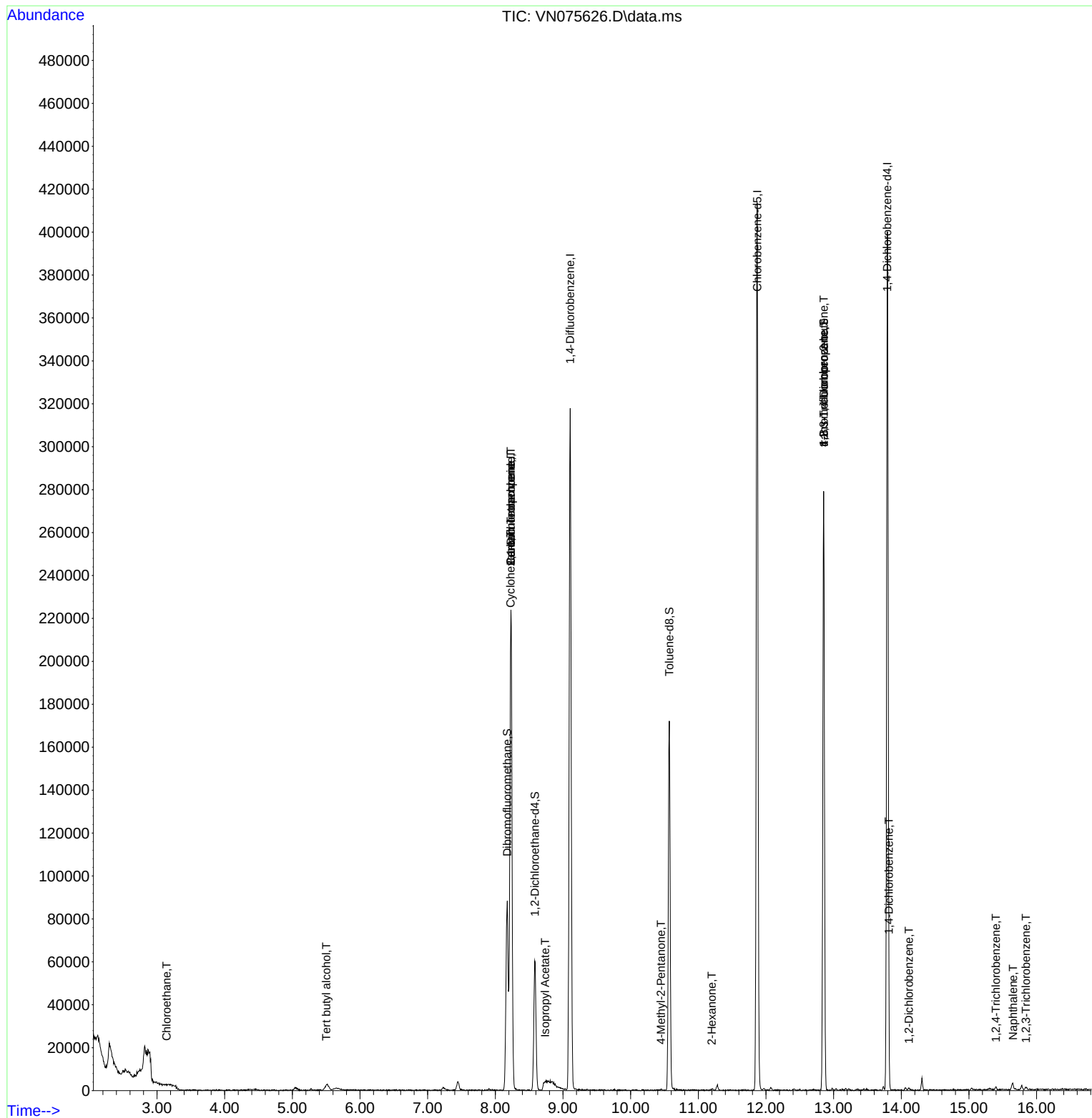
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.229          | 168  | 179617     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 298976     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 257796     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 116366     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 48160      | 49.950    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 99.900%   |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 62718      | 53.401    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 106.800%  |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 127165     | 48.073    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 96.140%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 93857      | 48.071    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 96.140%   |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 6) Chloroethane               | 3.142          | 64   | 450        | 0.276     | ug/l # | 45       |
| 11) Tert butyl alcohol        | 5.500          | 59   | 2496       | 6.167     | ug/l # | 72       |
| 18) Methyl Acetate            | 5.036          | 43   | 1284       | Below Cal |        | 96       |
| 20) Methylene Chloride        | 5.300          | 84   | 55         | Below Cal | #      | 60       |
| 31) Cyclohexane               | 8.224          | 56   | 3489       | 1.139     | ug/l # | 14       |
| 36) 1,1-Dichloropropene       | 8.229          | 75   | 12161      | 4.748     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.229          | 117  | 17401      | 6.185     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.735          | 43   | 4075       | 1.101     | ug/l # | 53       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 537        | 0.228     | ug/l # | 34       |
| 59) 2-Hexanone                | 11.200         | 43   | 558        | 0.315     | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 46982      | 21.354    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 46982      | 63.181    | ug/l # | 10       |
| 88) 1,4-Dichlorobenzene       | 13.817         | 146  | 899        | 0.223     | ug/l # | 30       |
| 91) 1,2-Dichlorobenzene       | 14.111         | 146  | 787        | 0.203     | ug/l # | 67       |
| 93) 1,2,4-Trichlorobenzene    | 15.400         | 180  | 777        | 0.391     | ug/l # | 87       |
| 95) Naphthalene               | 15.653         | 128  | 4018       | 0.643     | ug/l # | 93       |
| 96) 1,2,3-Trichlorobenzene    | 15.841         | 180  | 907        | 0.465     | ug/l   | 73       |
| -----                         |                |      |            |           |        |          |

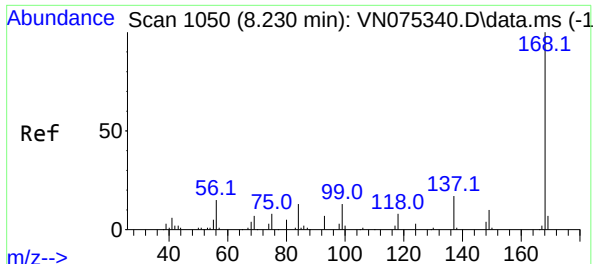
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1  
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN075626.D

Acq: 07 Dec 2022 23:08

Instrument :

MSVOA\_N

ClientSampleId :

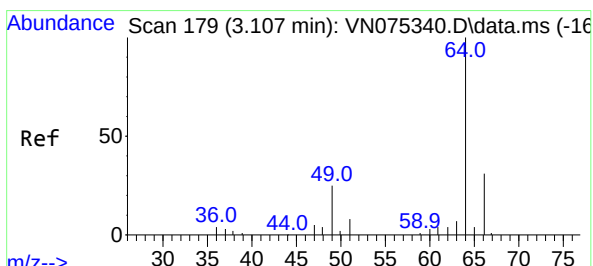
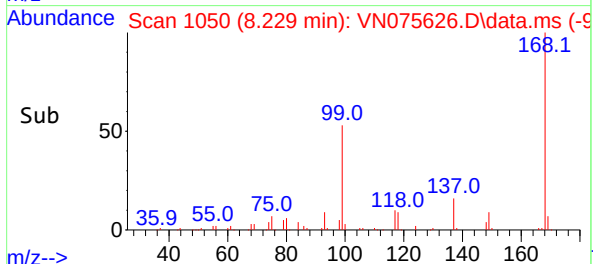
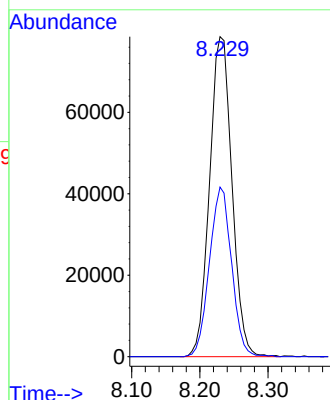
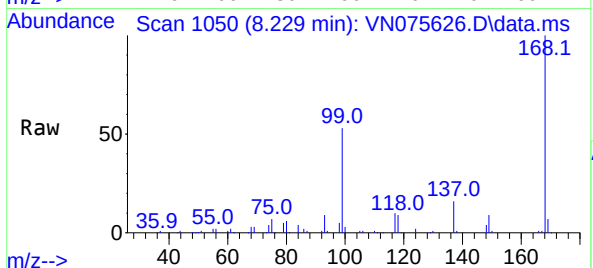
VN1207WBL02

Tgt Ion:168 Resp: 179617

Ion Ratio Lower Upper

168 100

99 53.0 51.6 77.4



#6

Chloroethane

Concen: 0.276 ug/l

RT: 3.142 min Scan# 185

Delta R.T. 0.035 min

Lab File: VN075626.D

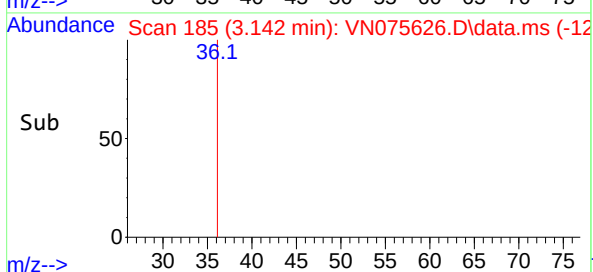
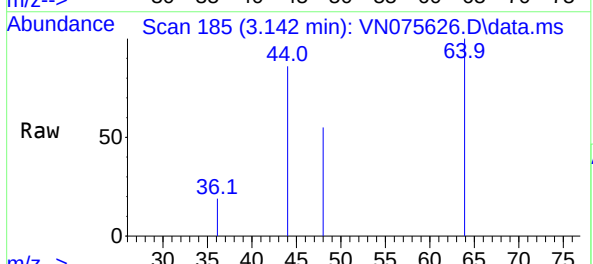
Acq: 07 Dec 2022 23:08

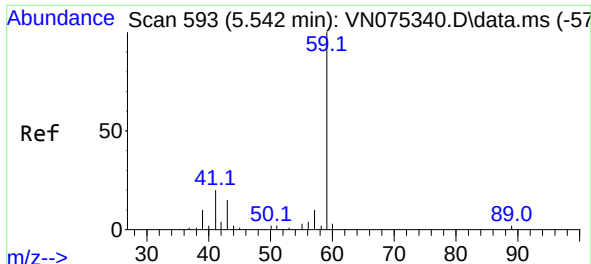
Tgt Ion: 64 Resp: 450

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.8#

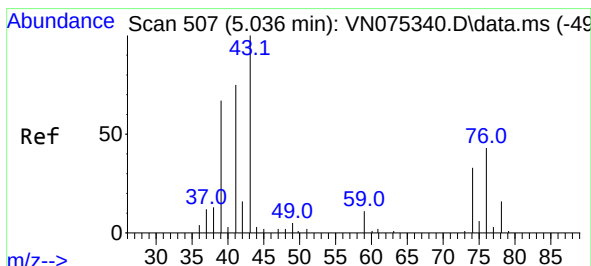
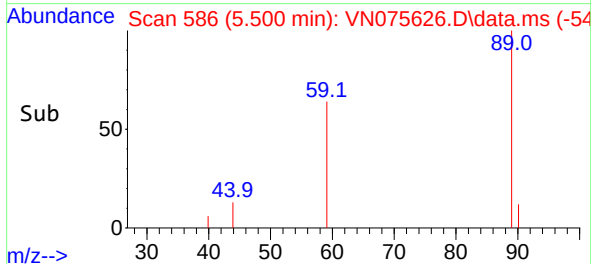
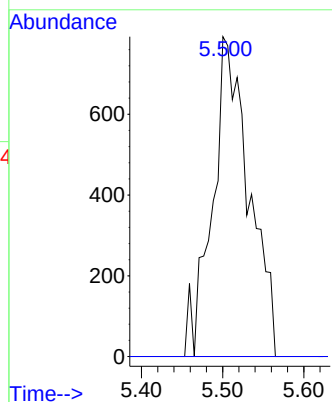
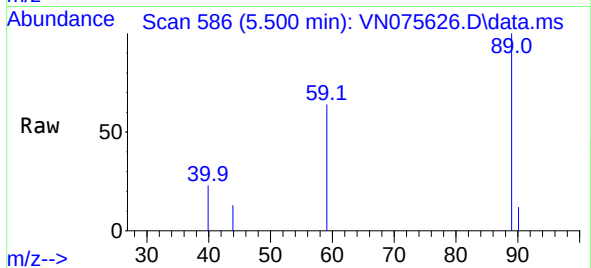




#11  
Tert butyl alcohol  
Concen: 6.167 ug/l  
RT: 5.500 min Scan# 51  
Delta R.T. -0.042 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

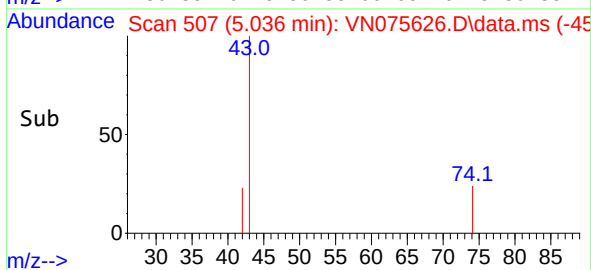
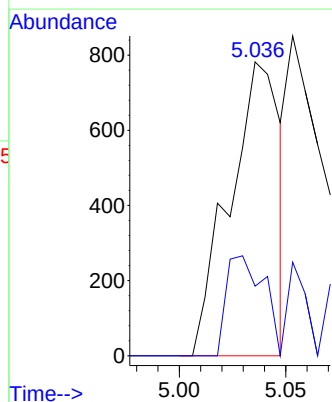
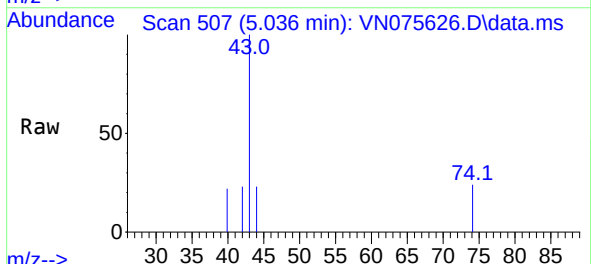
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1207WBL02

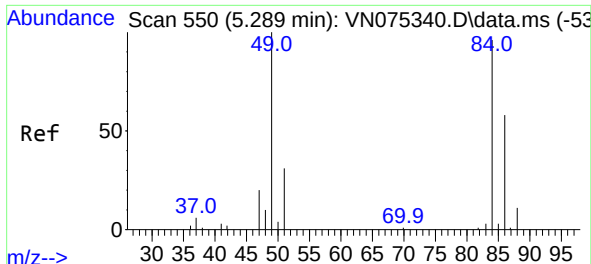
Tgt Ion: 59 Resp: 2496  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.036 min Scan# 507  
Delta R.T. -0.000 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

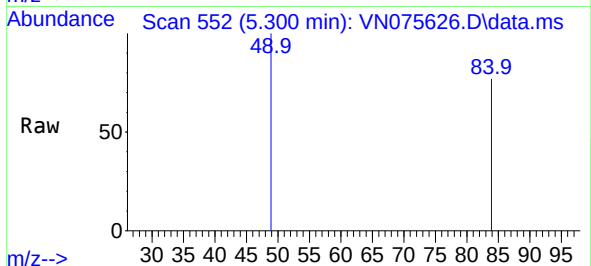
Tgt Ion: 43 Resp: 1284  
Ion Ratio Lower Upper  
43 100  
74 25.2 22.0 33.0





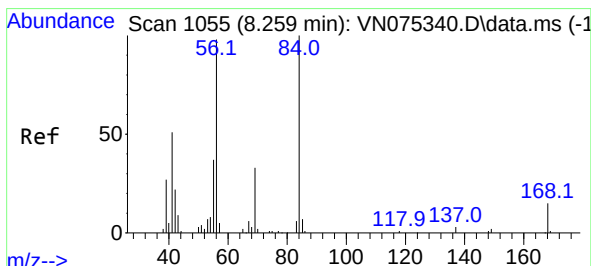
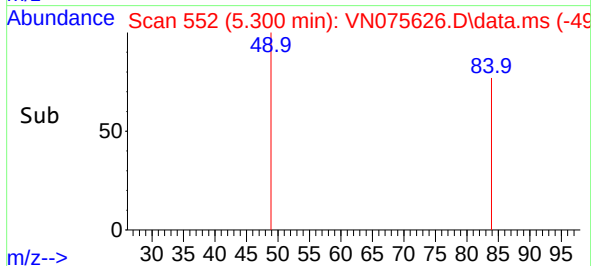
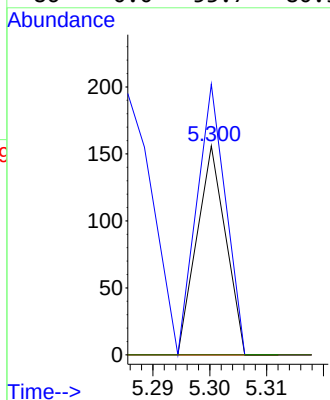
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.300 min Scan# 51  
Delta R.T. 0.011 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1207WBL02



Tgt Ion: 84 Resp: 55

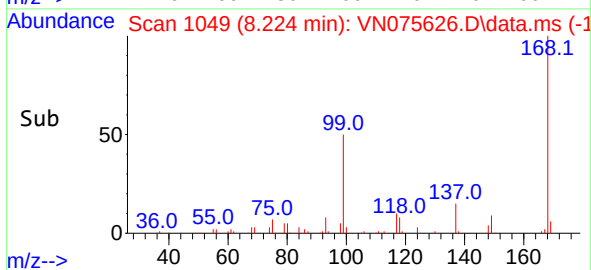
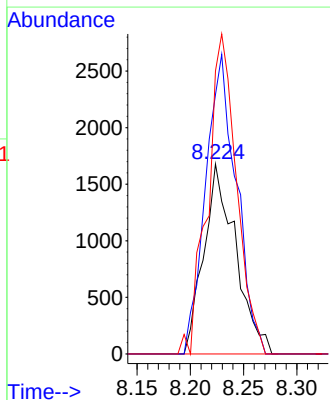
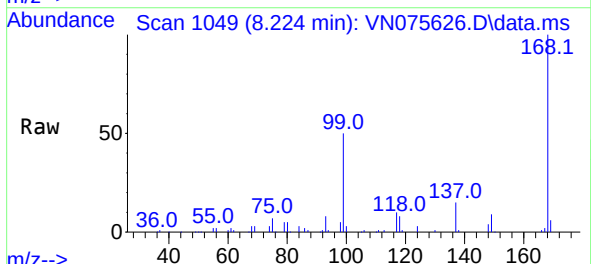
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 129.5 | 94.9  | 142.3 |
| 51  | 0.0   | 26.8  | 40.2# |
| 86  | 0.0   | 53.7  | 80.5# |

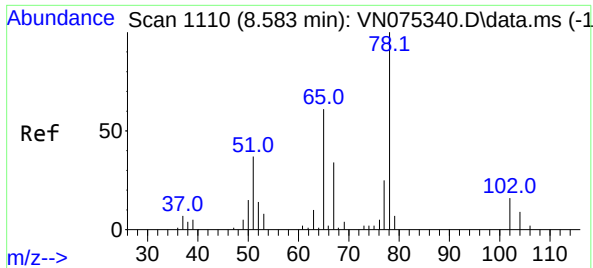


#31  
Cyclohexane  
Concen: 1.139 ug/l  
RT: 8.224 min Scan# 1049  
Delta R.T. -0.035 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion: 56 Resp: 3489

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 136.6 | 25.2  | 37.8#  |
| 84  | 149.1 | 77.8  | 116.8# |

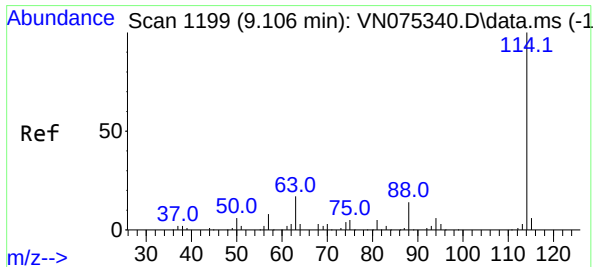
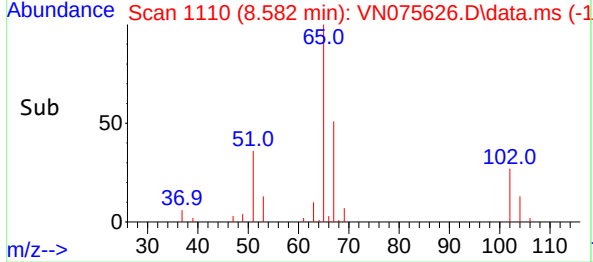
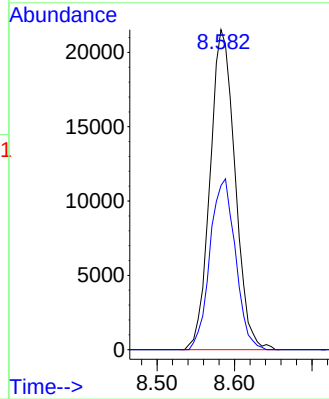
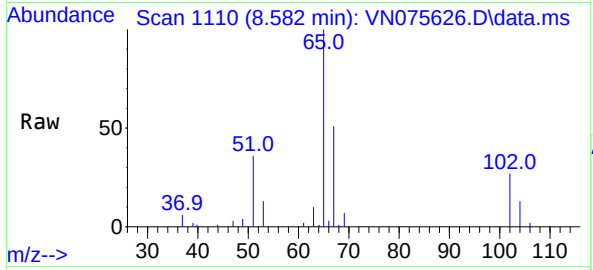




#33  
1,2-Dichloroethane-d4  
Concen: 49.950 ug/l  
RT: 8.582 min Scan# 1110  
Delta R.T. -0.001 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

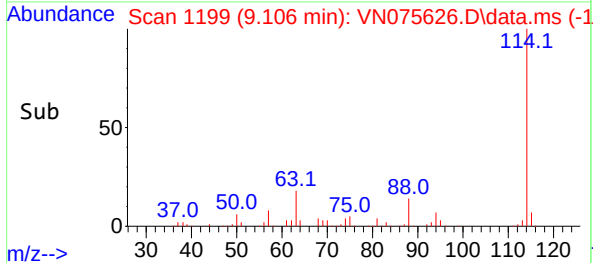
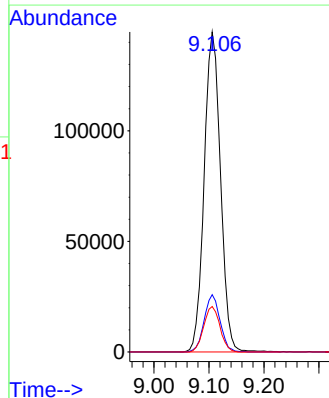
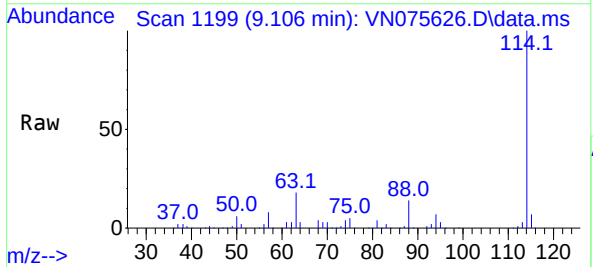
Instrument :  
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ClientSampleId :  
VN1207WBL02

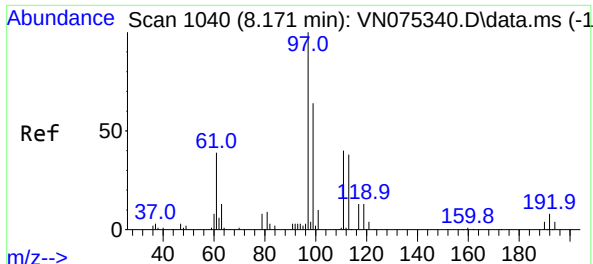
Tgt Ion: 65 Resp: 48160  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 102.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. -0.000 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion:114 Resp: 298976  
Ion Ratio Lower Upper  
114 100  
63 17.9 0.0 39.6  
88 14.2 0.0 29.0

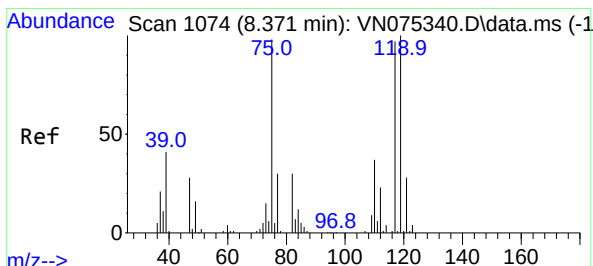
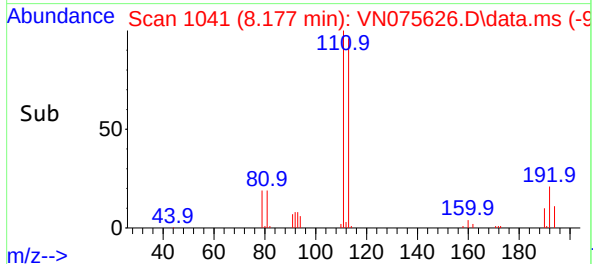
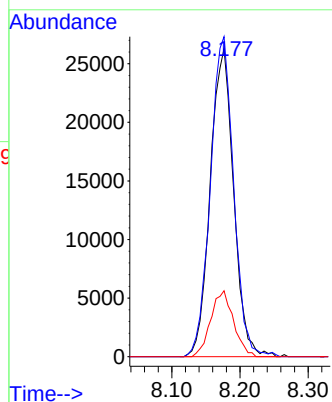
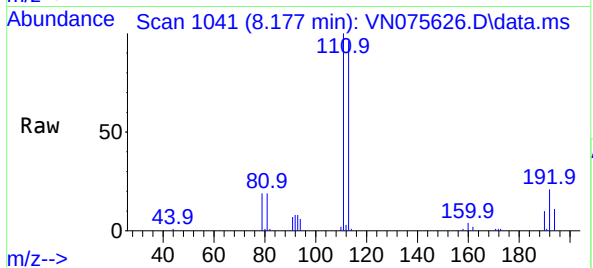




#35  
Dibromofluoromethane  
Concen: 53.401 ug/l  
RT: 8.177 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

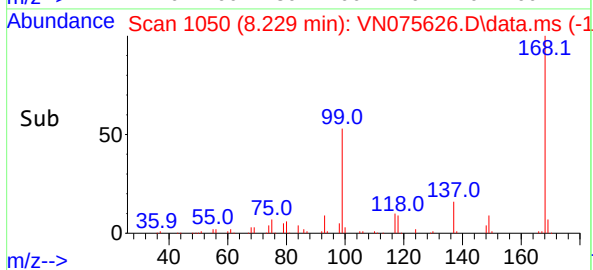
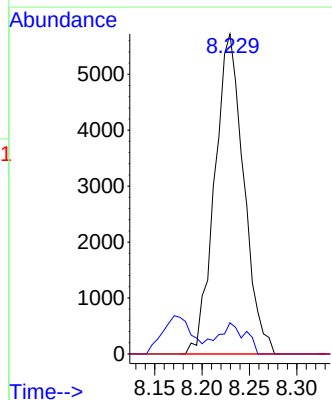
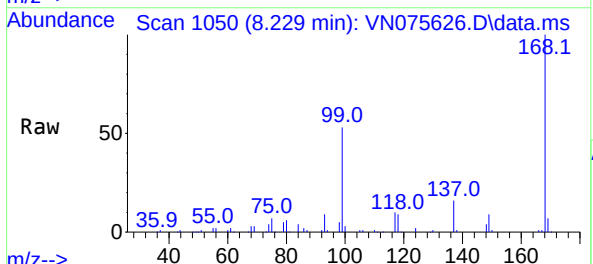
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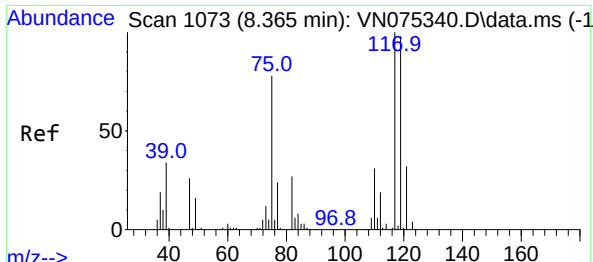
Tgt Ion:113 Resp: 62718  
Ion Ratio Lower Upper  
113 100  
111 103.6 80.5 120.7  
192 20.9 13.2 19.8#



#36  
1,1-Dichloropropene  
Concen: 4.748 ug/l  
RT: 8.229 min Scan# 1050  
Delta R.T. -0.142 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

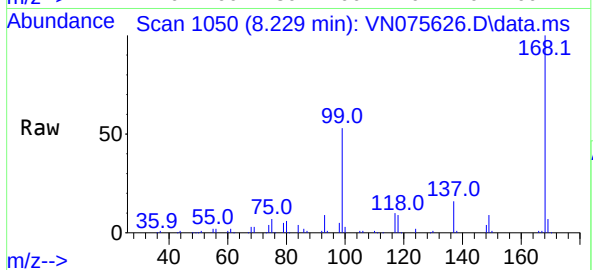
Tgt Ion: 75 Resp: 12161  
Ion Ratio Lower Upper  
75 100  
110 9.4 17.8 53.3#  
77 0.0 24.6 37.0#



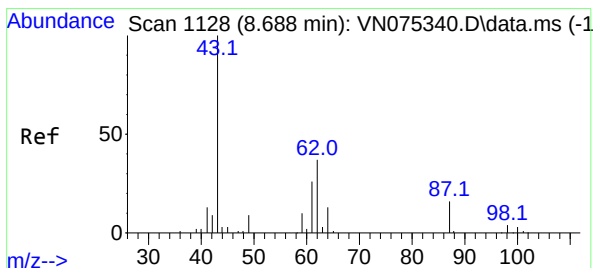
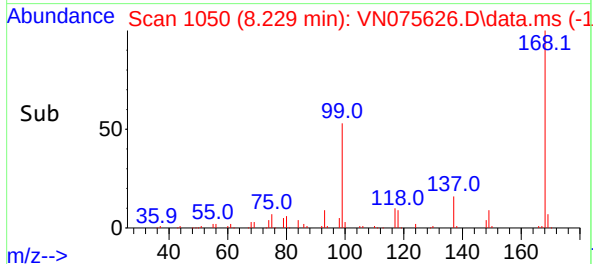
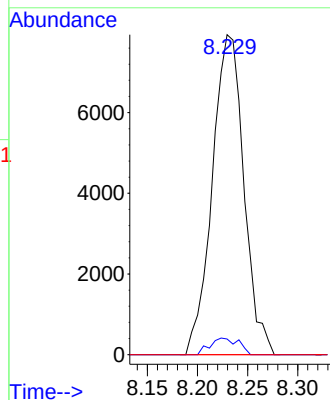


#38  
Carbon Tetrachloride  
Concen: 6.185 ug/l  
RT: 8.229 min Scan# 1107  
Delta R.T. -0.136 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1207WBL02

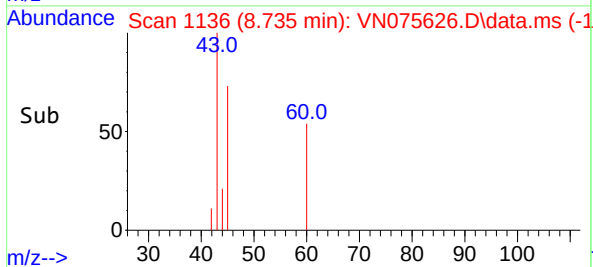
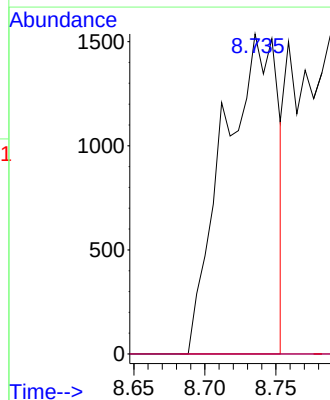
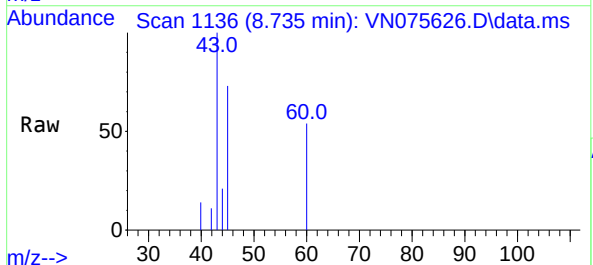


Tgt Ion:117 Resp: 17401  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.7 115.1#  
121 0.0 23.9 35.9#

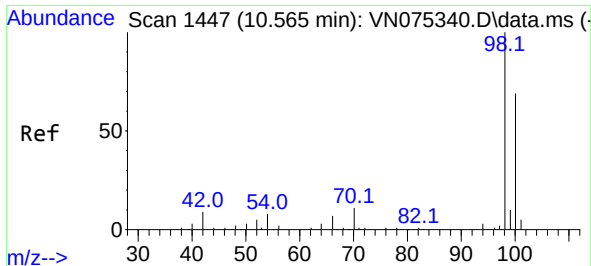


#43  
Isopropyl Acetate  
Concen: 1.101 ug/l  
RT: 8.735 min Scan# 1136  
Delta R.T. 0.047 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion: 43 Resp: 4075  
Ion Ratio Lower Upper  
43 100  
61 0.0 22.4 33.6#  
87 0.0 12.5 18.7#



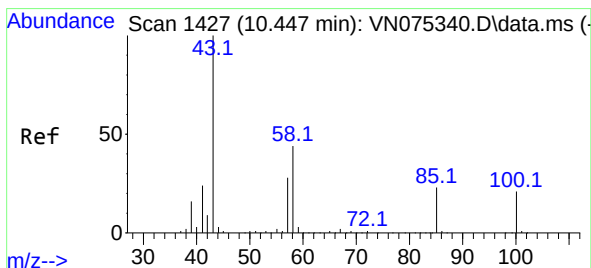
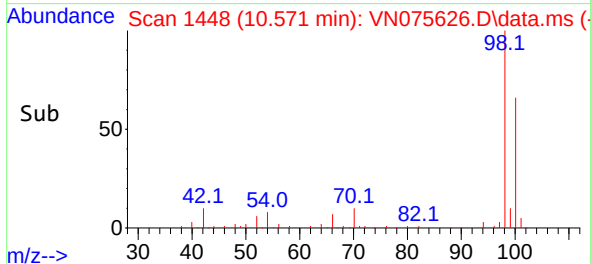
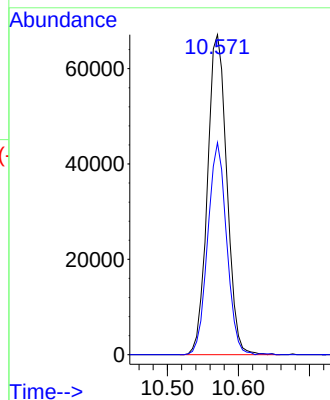
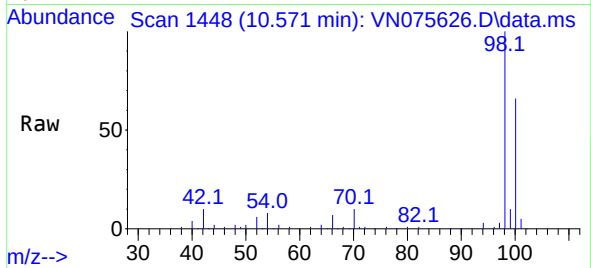




#50  
Toluene-d8  
Concen: 48.073 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. 0.006 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

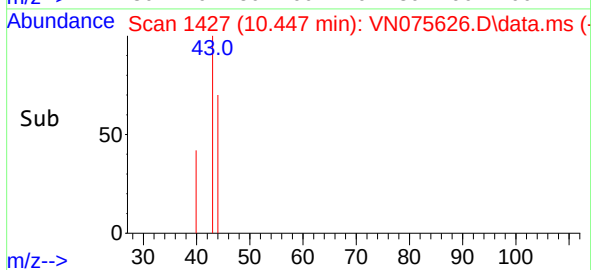
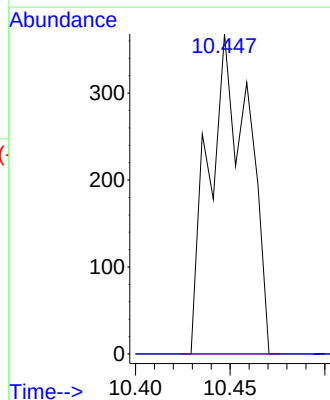
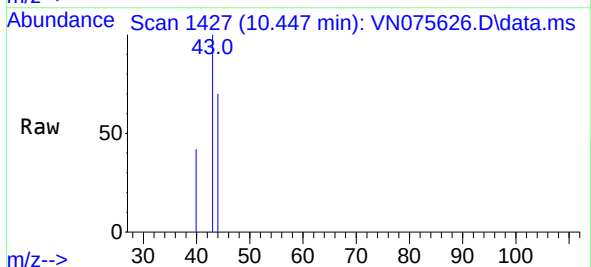
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ClientSampleId :  
VN1207WBL02

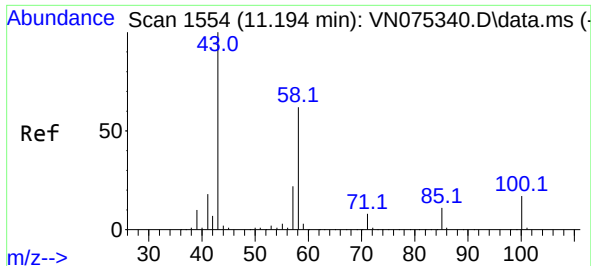
Tgt Ion: 98 Resp: 127165  
Ion Ratio Lower Upper  
98 100  
100 64.5 53.0 79.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.228 ug/l  
RT: 10.447 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion: 43 Resp: 537  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.6 50.4#

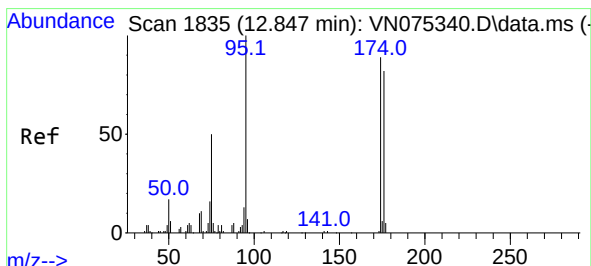
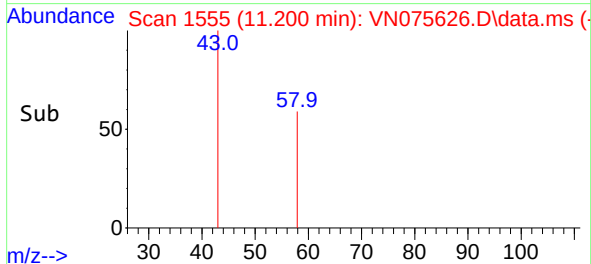
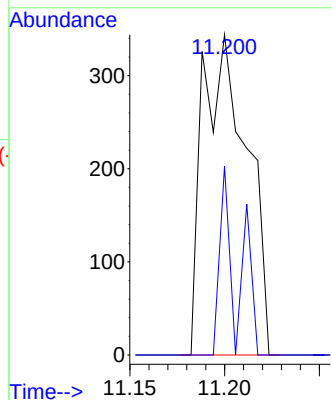
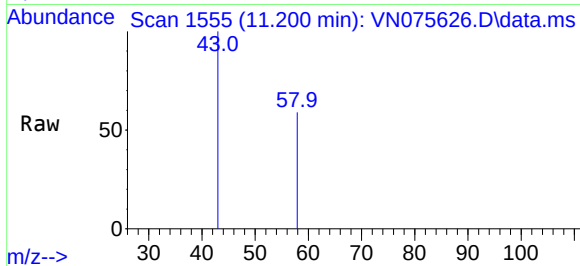




#59  
2-Hexanone  
Concen: 0.315 ug/l  
RT: 11.200 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

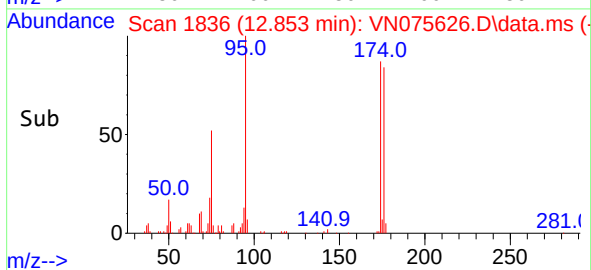
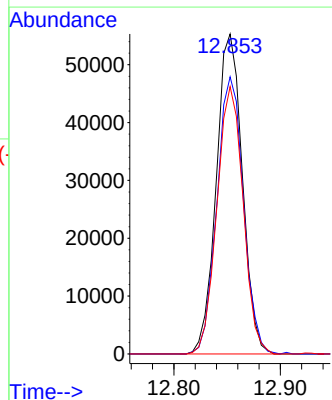
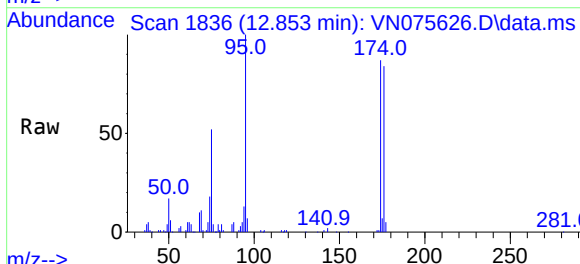
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ClientSampleId :  
VN1207WBL02

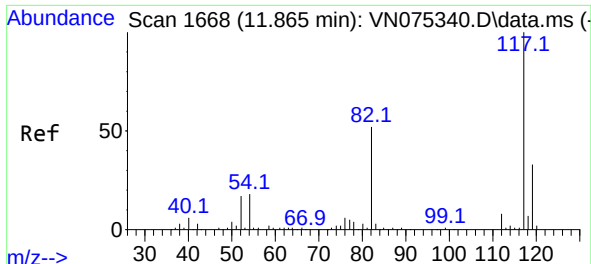
Tgt Ion: 43 Resp: 558  
Ion Ratio Lower Upper  
43 100  
58 23.1 29.6 88.8#



#62  
4-Bromofluorobenzene  
Concen: 48.071 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.006 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion: 95 Resp: 93857  
Ion Ratio Lower Upper  
95 100  
174 88.1 0.0 147.4  
176 83.7 0.0 142.2

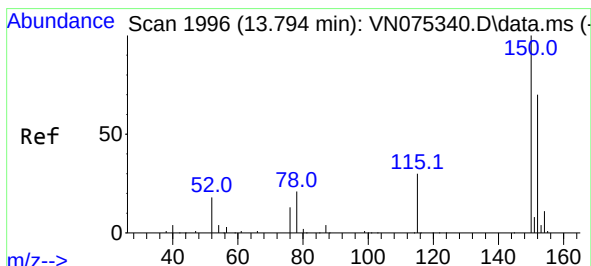
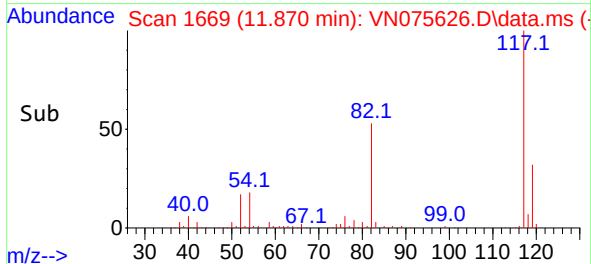
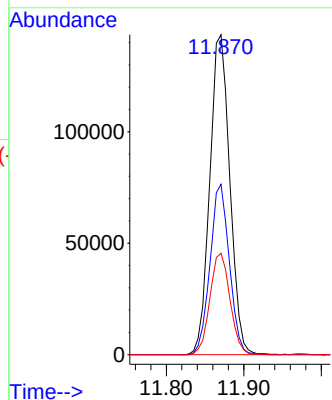
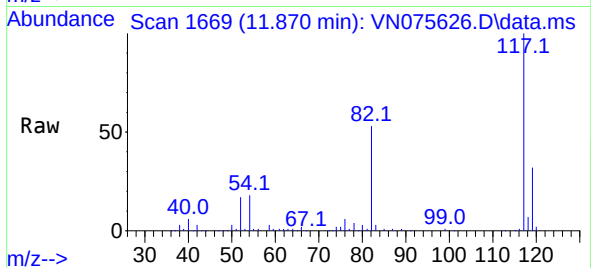




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1  
Delta R.T. 0.005 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

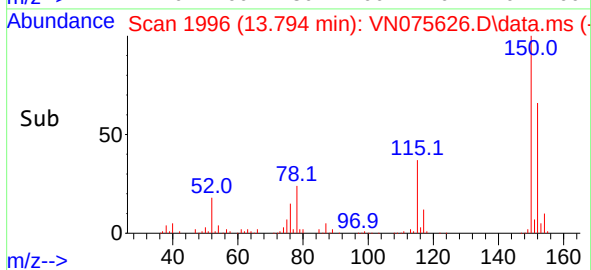
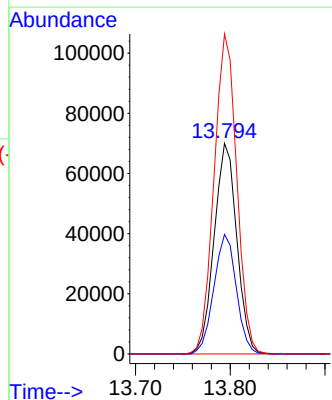
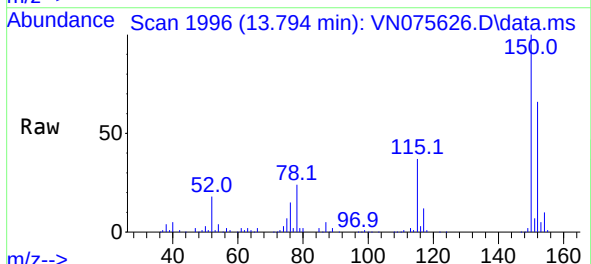
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MSVOA\_N  
ClientSampleId :  
VN1207WBL02

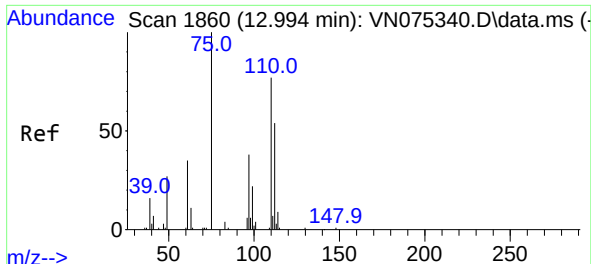
Tgt Ion:117 Resp: 257796  
Ion Ratio Lower Upper  
117 100  
82 53.2 43.1 64.7  
119 31.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion:152 Resp: 116366  
Ion Ratio Lower Upper  
152 100  
115 56.3 30.2 90.6  
150 152.1 0.0 348.4

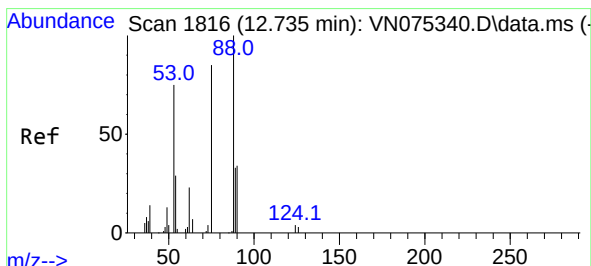
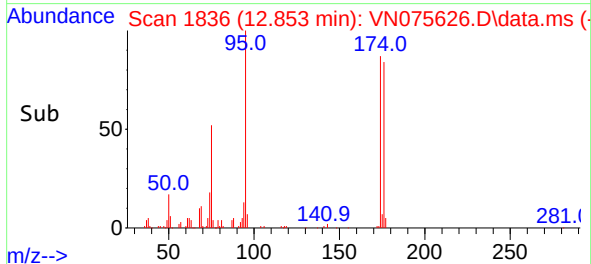
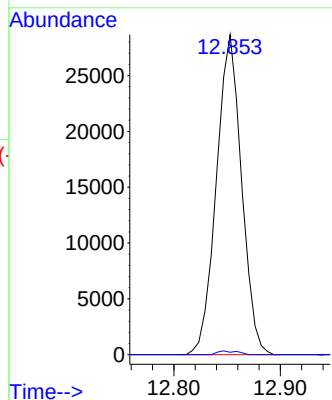
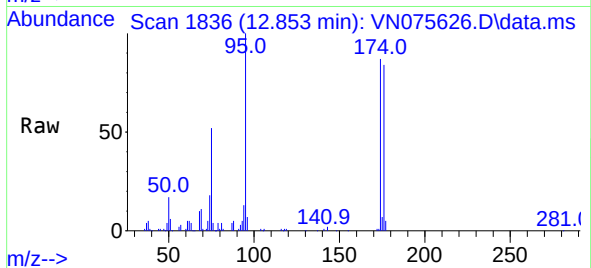




#76  
1,2,3-Trichloropropane  
Concen: 21.354 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

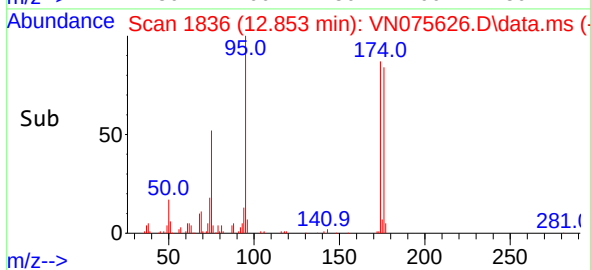
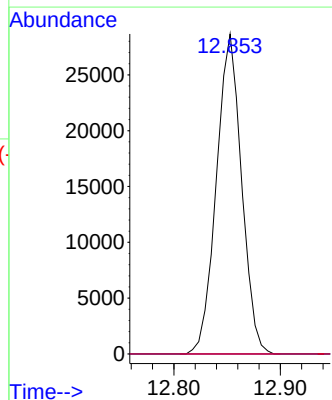
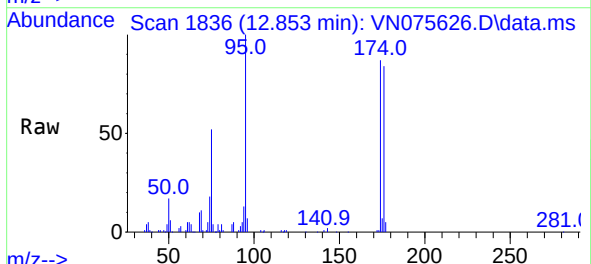
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1207WBL02

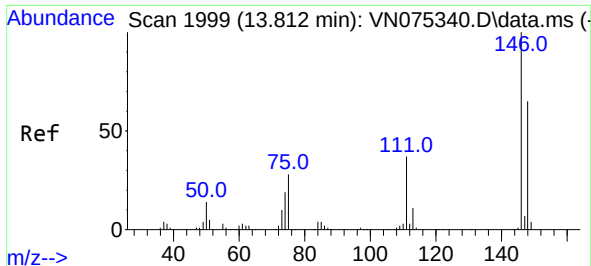
Tgt Ion: 75 Resp: 46982  
Ion Ratio Lower Upper  
75 100  
77 0.9 75.6 226.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.181 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.118 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion: 75 Resp: 46982  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.5 117.7#  
89 0.0 37.7 56.5#

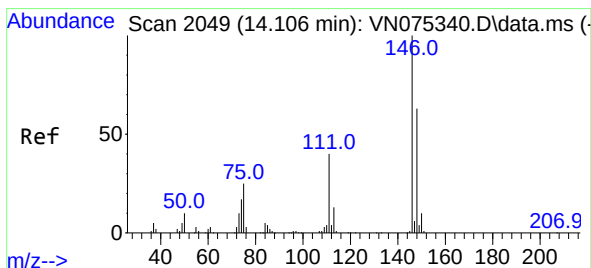
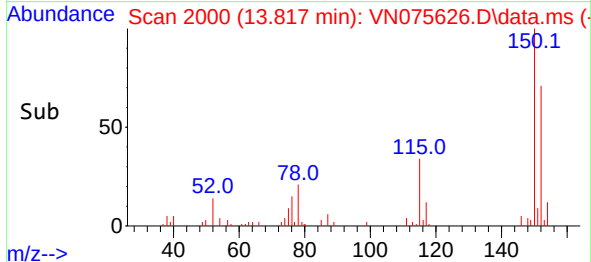
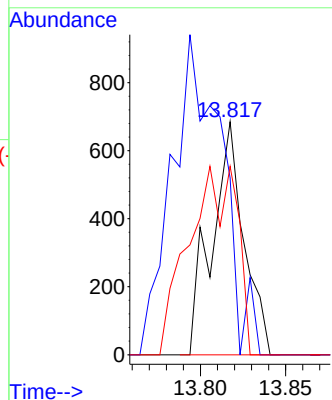
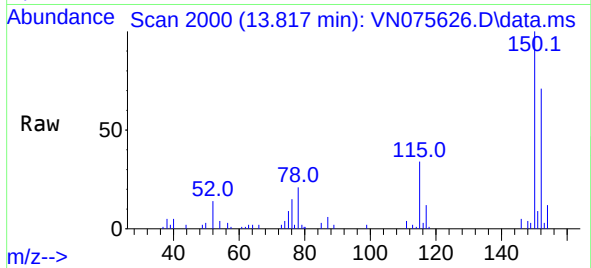




#88  
1,4-Dichlorobenzene  
Concen: 0.223 ug/l  
RT: 13.817 min Scan# 20  
Delta R.T. 0.005 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

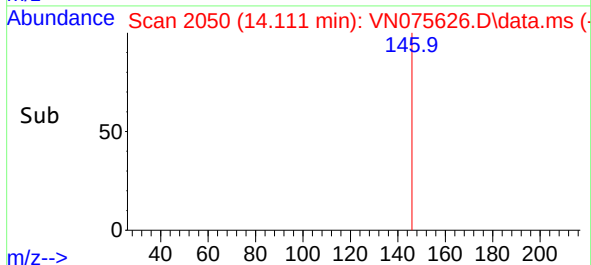
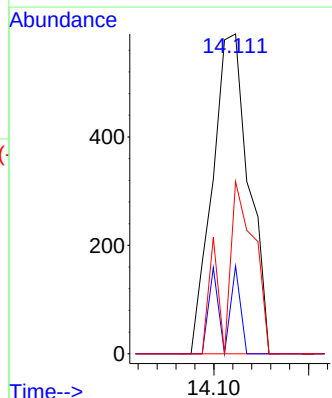
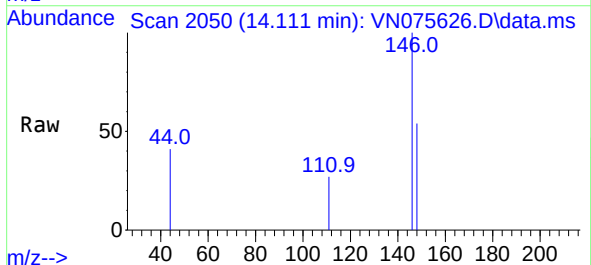
Instrument :  
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ClientSampleId :  
VN1207WBL02

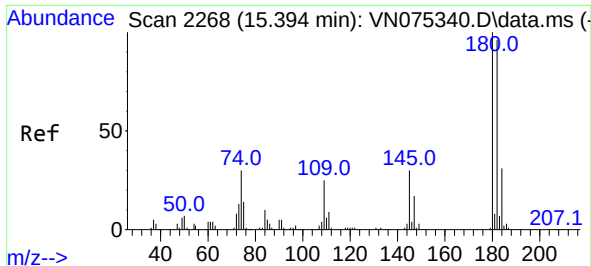
Tgt Ion:146 Resp: 899  
Ion Ratio Lower Upper  
146 100  
111 0.0 20.1 60.3#  
148 121.2 31.9 95.7#



#91  
1,2-Dichlorobenzene  
Concen: 0.203 ug/l  
RT: 14.111 min Scan# 2050  
Delta R.T. 0.005 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

Tgt Ion:146 Resp: 787  
Ion Ratio Lower Upper  
146 100  
111 14.4 21.3 63.9#  
148 43.5 31.4 94.2

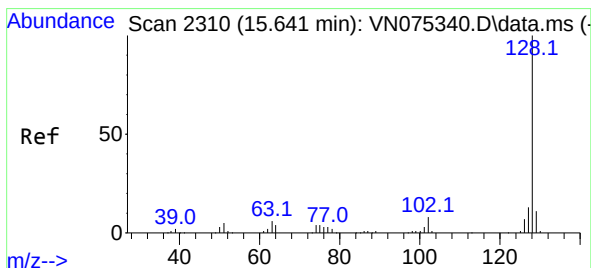
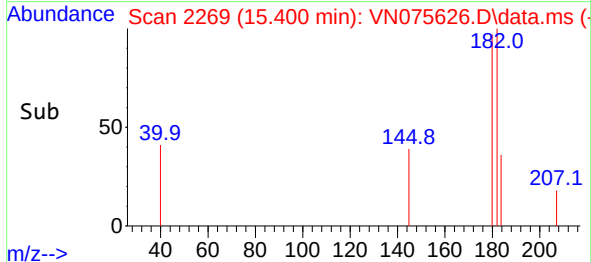
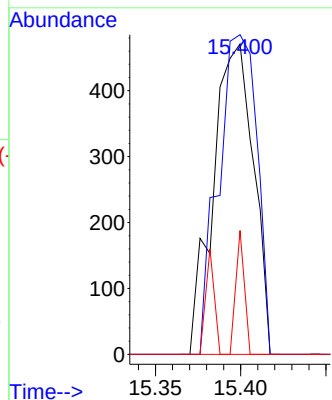
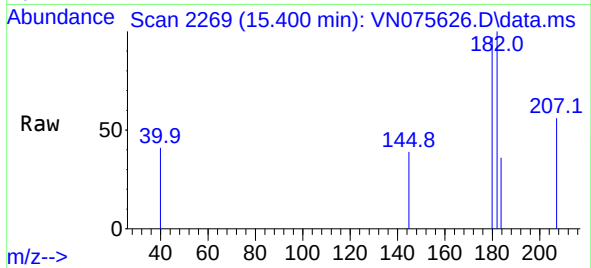




#93  
1,2,4-Trichlorobenzene  
Concen: 0.391 ug/l  
RT: 15.400 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

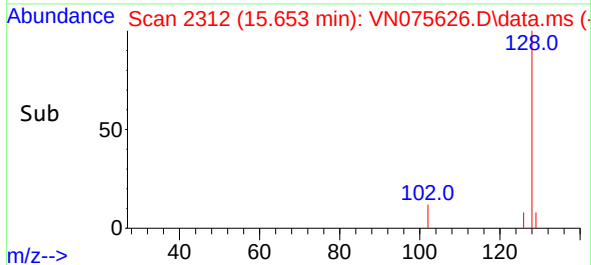
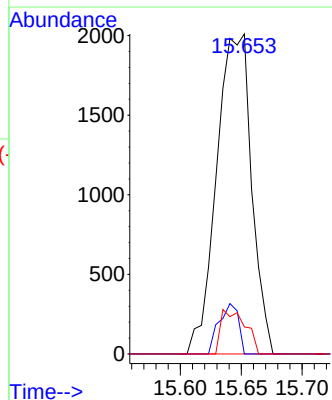
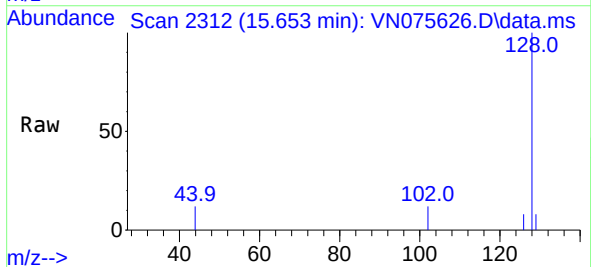
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ClientSampleId :  
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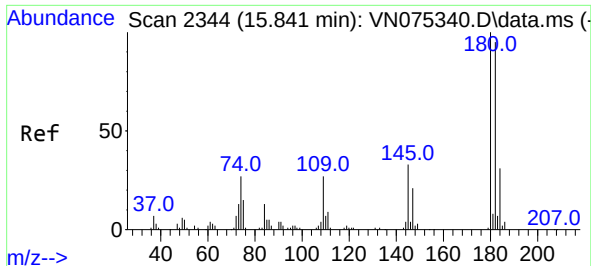
Tgt Ion:180 Resp: 777  
Ion Ratio Lower Upper  
180 100  
182 98.2 47.8 143.4  
145 8.5 16.8 50.3#



#95  
Naphthalene  
Concen: 0.643 ug/l  
RT: 15.653 min Scan# 2312  
Delta R.T. 0.012 min  
Lab File: VN075626.D  
Acq: 07 Dec 2022 23:08

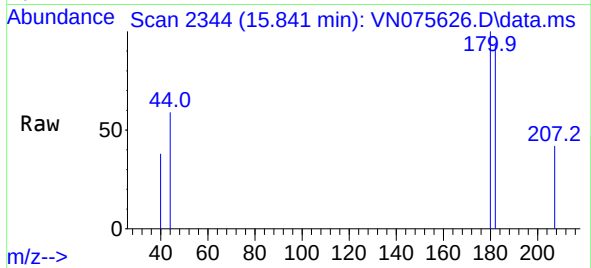
Tgt Ion:128 Resp: 4018  
Ion Ratio Lower Upper  
128 100  
127 8.7 10.4 15.6#  
129 9.7 8.6 12.8





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.465 ug/l  
 RT: 15.841 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN075626.D  
 Acq: 07 Dec 2022 23:08

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1207WBL02



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 907   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 68.7  | 47.3  | 141.8 |
| 145      | 18.4  | 17.6  | 52.9  |

