

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121420\  
 Data File : VN065121.D  
 Acq On : 15 Dec 2020 00:12  
 Operator : JC/MD  
 Sample : L5085-02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 15 06:42:57 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121420W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 15 05:41:47 2020  
 Response via : Initial Calibration

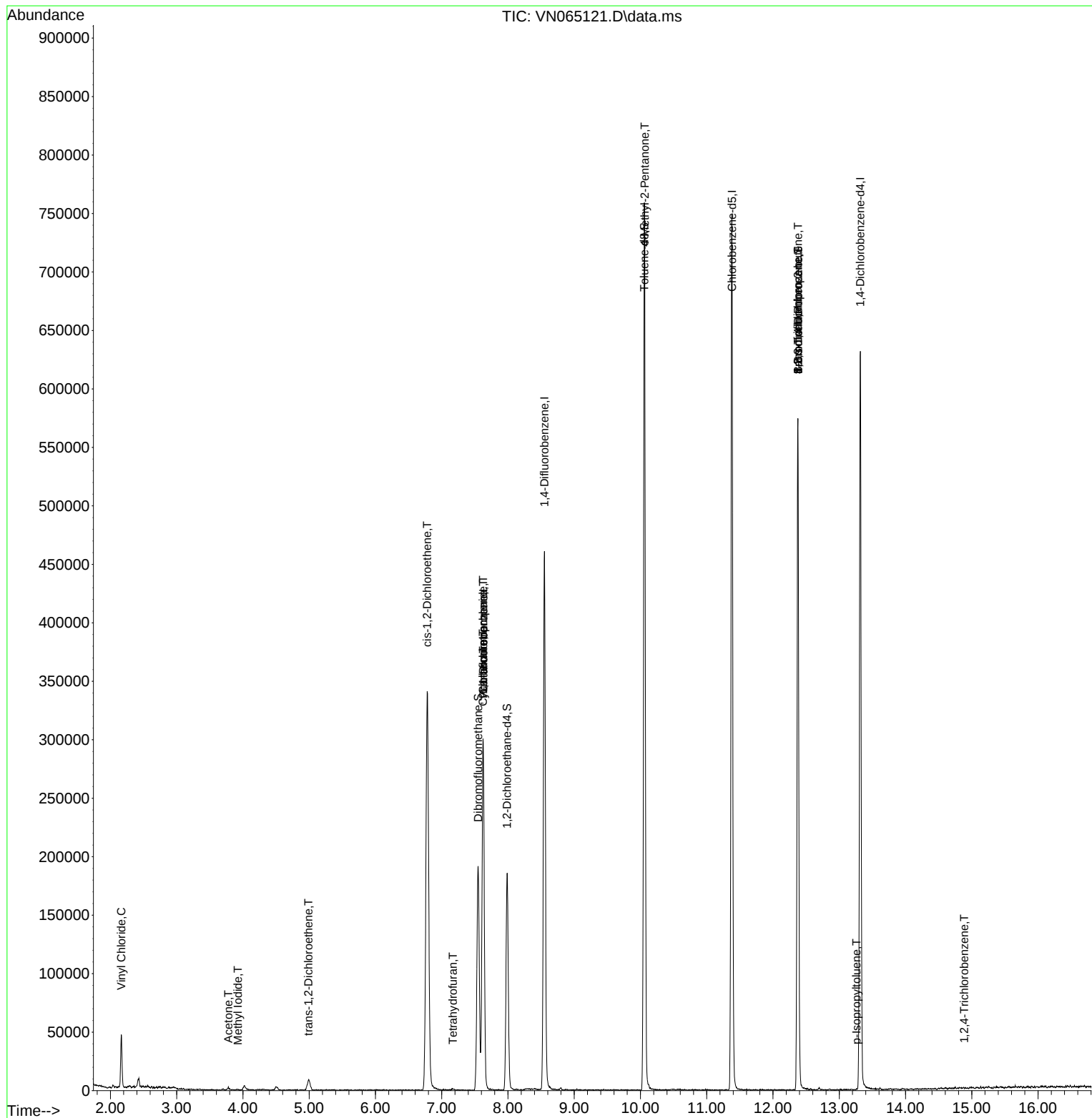
| Compound                      | R.T.   | QIon  | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|------------|--------|----------|
| -----                         |        |       |          |            |        |          |
| Internal Standards            |        |       |          |            |        |          |
| 1) Pentafluorobenzene         | 7.627  | 168   | 253303   | 50.00      | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550  | 114   | 422432   | 50.00      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.379 | 117   | 442773   | 50.00      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.318 | 152   | 183505   | 50.00      | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.987  | 65    | 159536   | 54.78      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery   | =      | 109.56%  |
| 35) Dibromofluoromethane      | 7.550  | 113   | 145422   | 49.52      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery   | =      | 99.04%   |
| 50) Toluene-d8                | 10.058 | 98    | 521984   | 50.27      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery   | =      | 100.54%  |
| 62) 4-Bromofluorobenzene      | 12.376 | 95    | 195085   | 54.56      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery   | =      | 109.12%  |
| Target Compounds              |        |       |          |            |        |          |
|                               |        |       |          |            | Qvalue |          |
| 3) Chloromethane              | 2.039  | 50    | 1739     | Below Cal  |        | 98       |
| 4) Vinyl Chloride             | 2.164  | 62    | 37875    | 16.11 ug/l |        | 97       |
| 5) Bromomethane               | 2.534  | 94    | 262      | Below Cal  | #      | 73       |
| 10) Methyl Iodide             | 3.923  | 142   | 294      | 4.02 ug/l  | #      | 40       |
| 16) Acetone                   | 3.778  | 43    | 2263     | 2.09 ug/l  |        | 96       |
| 20) Methylene Chloride        | 4.499  | 84    | 1463     | Below Cal  | #      | 70       |
| 21) trans-1,2-Dichloroethene  | 4.987  | 96    | 2686     | 1.09 ug/l  | #      | 72       |
| 27) cis-1,2-Dichloroethene    | 6.782  | 96    | 234437   | 84.94 ug/l |        | 90       |
| 29) Tetrahydrofuran           | 7.171  | 42    | 745      | 0.87 ug/l  | #      | 54       |
| 31) Cyclohexane               | 7.621  | 56    | 5229     | 1.32 ug/l  | #      | 44       |
| 36) 1,1-Dichloropropene       | 7.624  | 75    | 17288    | 4.29 ug/l  | #      | 48       |
| 38) Carbon Tetrachloride      | 7.624  | 117   | 24601    | 5.29 ug/l  | #      | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.064 | 43    | 2538     | 0.77 ug/l  | #      | 1        |
| 71) Bromoform                 | 12.376 | 173   | 1156     | 0.41 ug/l  | #      | 1        |
| 76) 1,2,3-Trichloropropane    | 12.376 | 75    | 95534    | 29.01 ug/l | #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.376 | 75    | 95534    | 80.73 ug/l | #      | 15       |
| 86) p-Isopropyltoluene        | 13.260 | 119   | 365      | 1.10 ug/l  | #      | 51       |
| 93) 1,2,4-Trichlorobenzene    | 14.884 | 180   | 63       | 3.75 ug/l  | #      | 12       |
| -----                         |        |       |          |            |        |          |

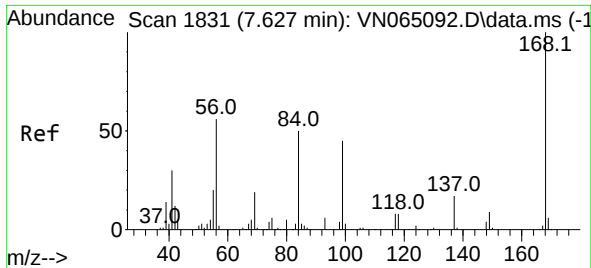
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Dec 15 06:42:57 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121420W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 15 05:41:47 2020  
Response via : Initial Calibration

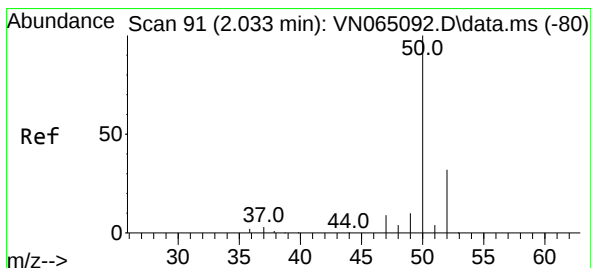
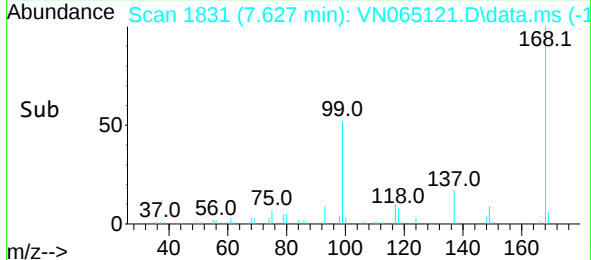
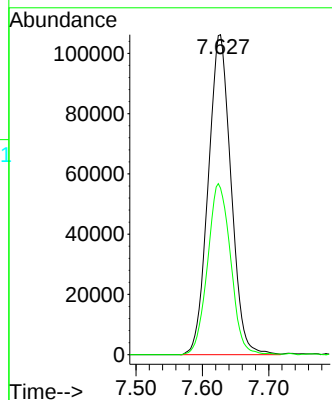
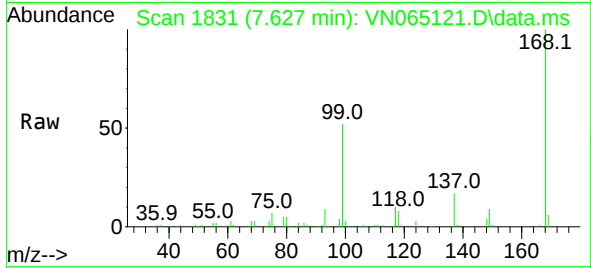




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.000 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

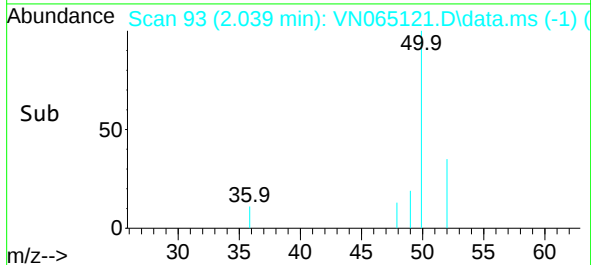
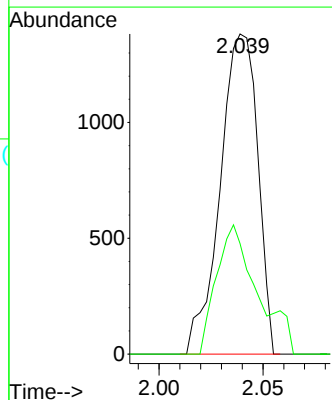
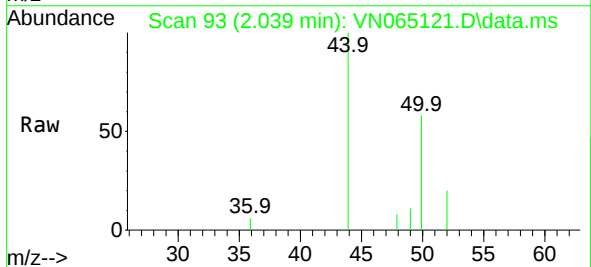
Instrument :  
MSVOA\_N  
ClientSampled :

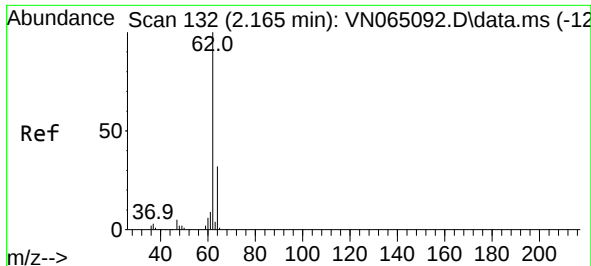
Tgt Ion:168 Resp: 253303  
Ion Ratio Lower Upper  
168 100  
99 52.0 43.0 64.4



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.039 min Scan# 93  
Delta R.T. 0.006 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Tgt Ion: 50 Resp: 1739  
Ion Ratio Lower Upper  
50 100  
52 34.5 26.6 39.8

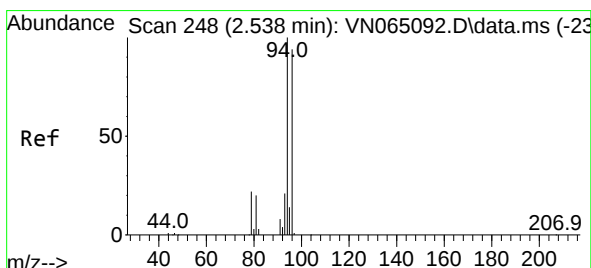
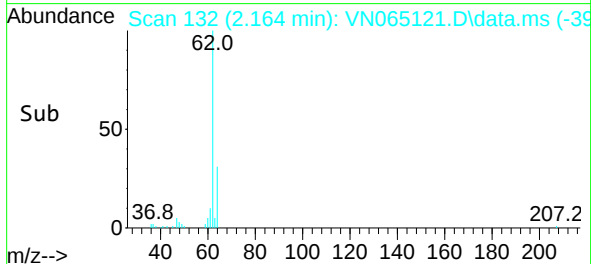
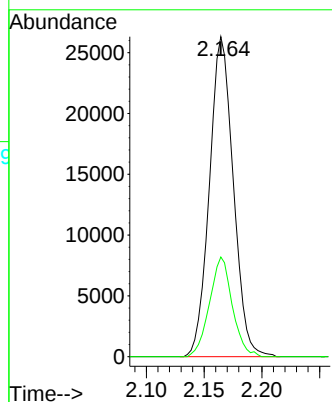
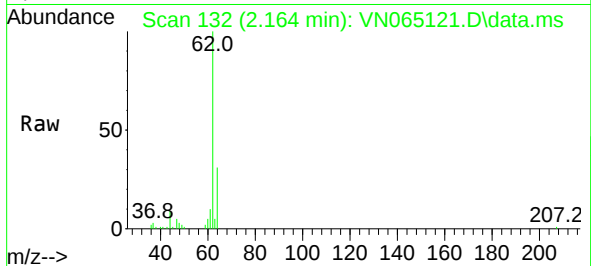




#4  
 Vinyl Chloride  
 Concen: 16.11 ug/l  
 RT: 2.164 min Scan# 132  
 Delta R.T. -0.001 min  
 Lab File: VN065121.D  
 Acq: 15 Dec 2020 00:12

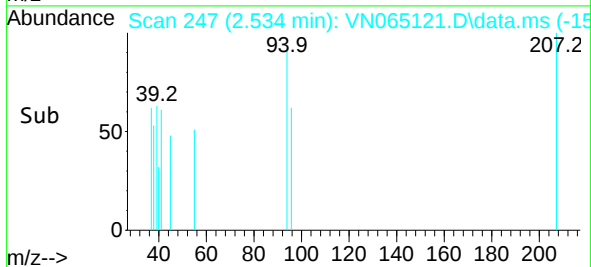
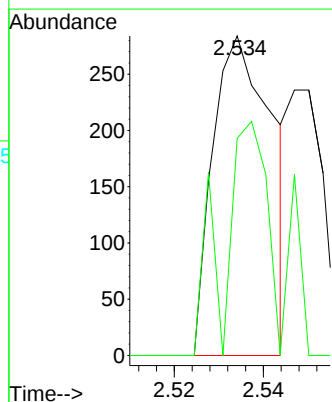
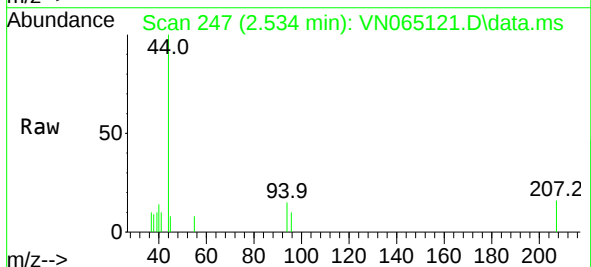
Instrument :  
 MSVOA\_N  
 ClientSampled :

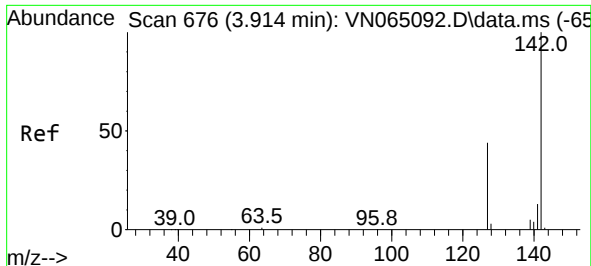
Tgt Ion: 62 Resp: 37875  
 Ion Ratio Lower Upper  
 62 100  
 64 31.1 26.5 39.7



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 2.534 min Scan# 247  
 Delta R.T. -0.004 min  
 Lab File: VN065121.D  
 Acq: 15 Dec 2020 00:12

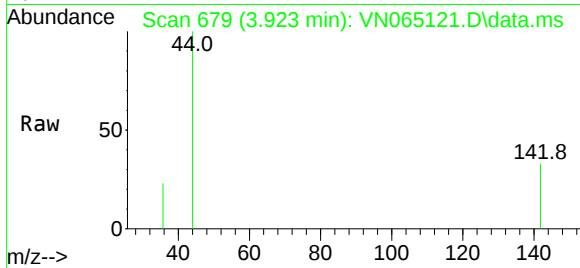
Tgt Ion: 94 Resp: 262  
 Ion Ratio Lower Upper  
 94 100  
 96 68.0 75.4 113.0#



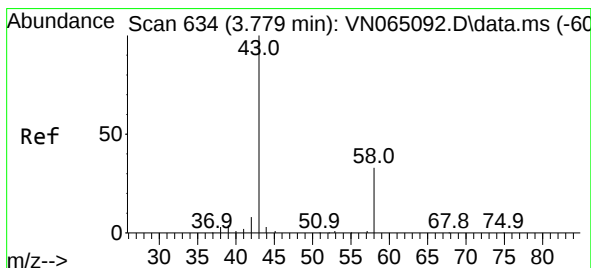
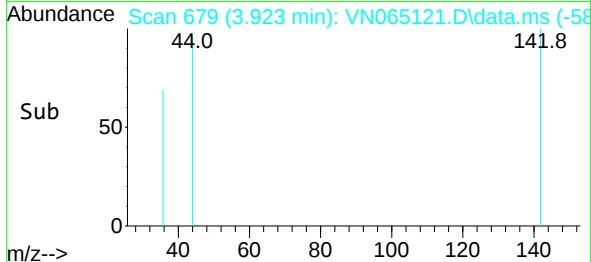
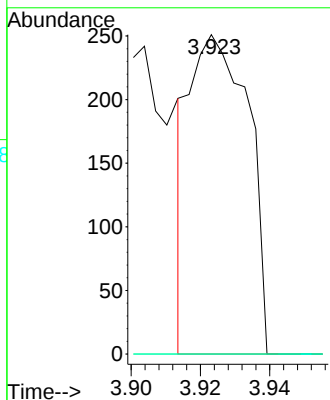


#10  
Methyl Iodide  
Concen: 4.02 ug/l  
RT: 3.923 min Scan# 679  
Delta R.T. 0.009 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Instrument :  
MSVOA\_N  
ClientSampled :

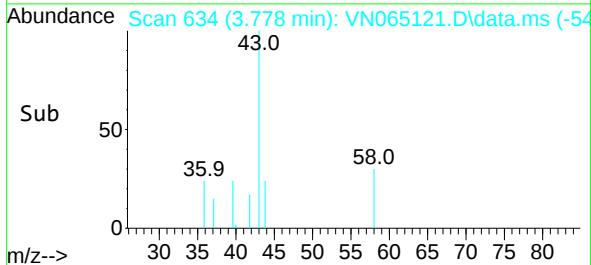
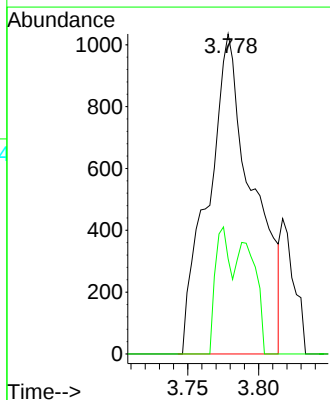
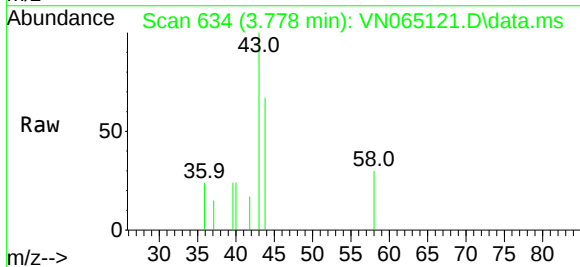


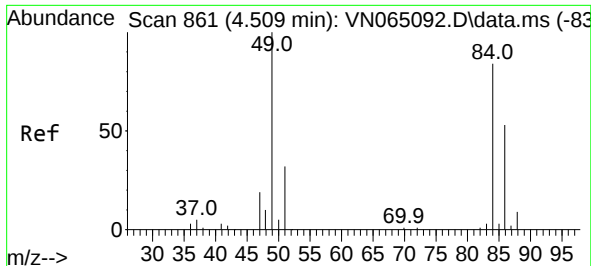
Tgt Ion:142 Resp: 294  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.6#  
141 0.0 11.8 17.6#



#16  
Acetone  
Concen: 2.09 ug/l  
RT: 3.778 min Scan# 634  
Delta R.T. -0.001 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

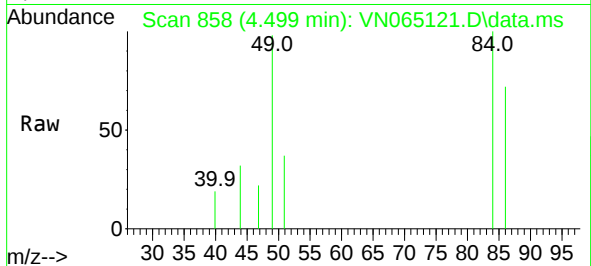
Tgt Ion: 43 Resp: 2263  
Ion Ratio Lower Upper  
43 100  
58 29.8 25.7 38.5



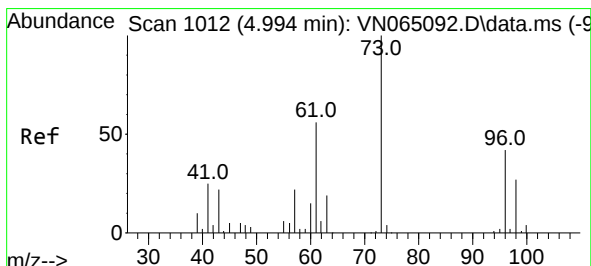
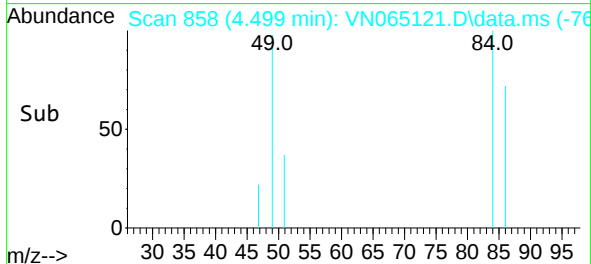
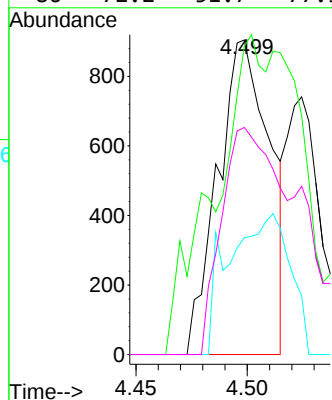


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.499 min Scan# 858  
Delta R.T. -0.010 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Instrument :  
MSVOA\_N  
ClientSampled :

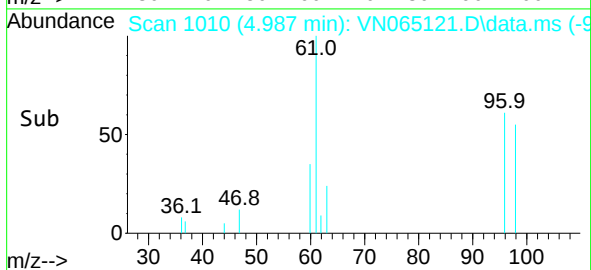
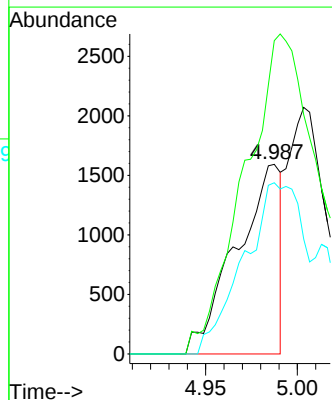
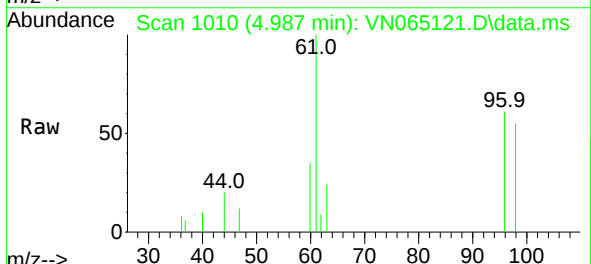


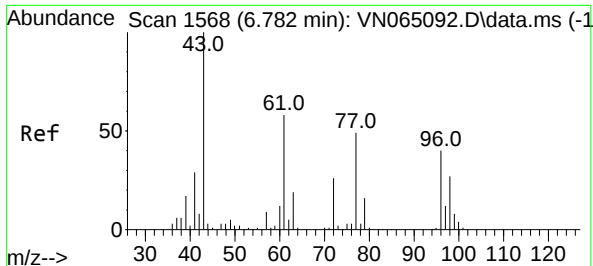
Tgt Ion: 84 Resp: 1463  
Ion Ratio Lower Upper  
84 100  
49 61.9 93.4 140.0#  
51 37.1 28.2 42.4  
86 72.2 51.7 77.5



#21  
trans-1,2-Dichloroethene  
Concen: 1.09 ug/l  
RT: 4.987 min Scan# 1010  
Delta R.T. -0.007 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Tgt Ion: 96 Resp: 2686  
Ion Ratio Lower Upper  
96 100  
61 165.2 108.4 162.6#  
98 90.3 51.3 76.9#





#27

cis-1,2-Dichloroethene

Concen: 84.94 ug/l

RT: 6.782 min Scan# 1568

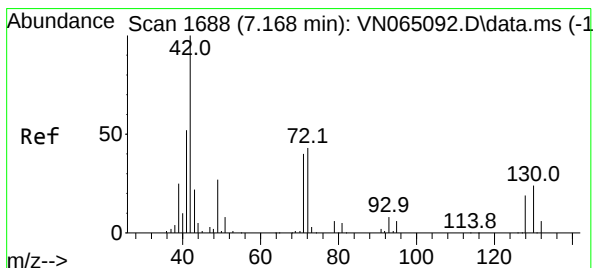
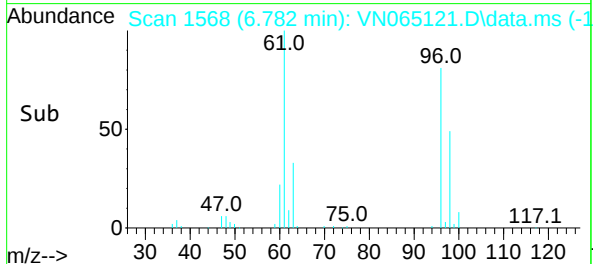
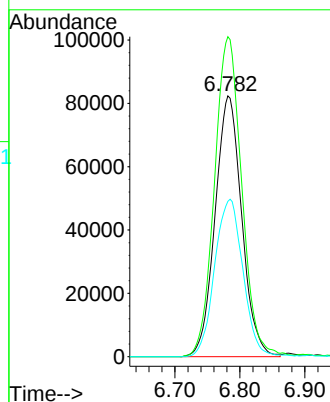
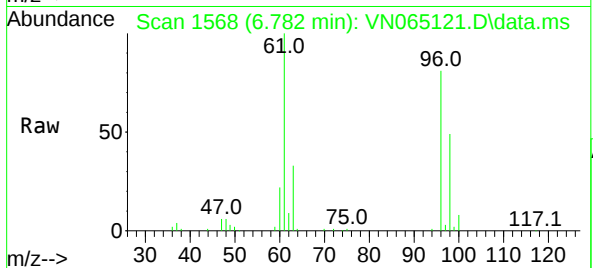
Delta R.T. -0.000 min

Lab File: VN065121.D

Acq: 15 Dec 2020 00:12

Tgt Ion: 96 Resp: 234437

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 125.5 | 0.0   | 285.8 |
| 98  | 64.1  | 0.0   | 130.6 |



#29

Tetrahydrofuran

Concen: 0.87 ug/l

RT: 7.171 min Scan# 1689

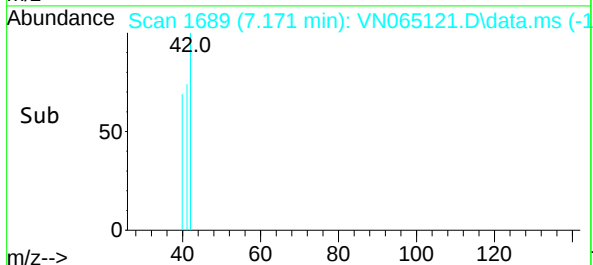
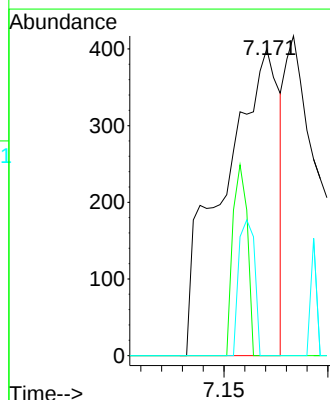
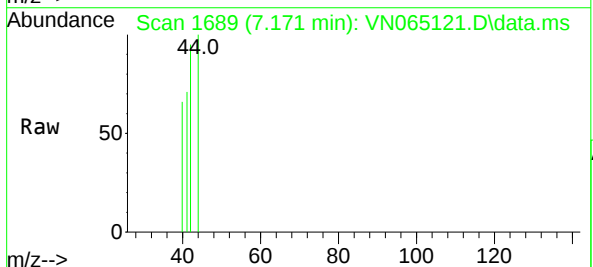
Delta R.T. 0.003 min

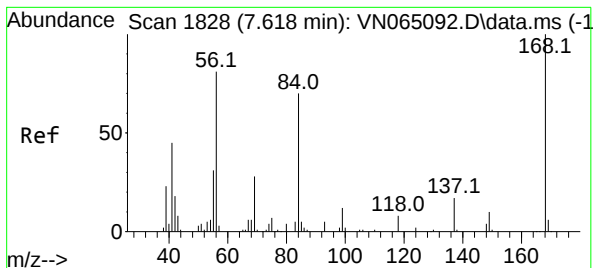
Lab File: VN065121.D

Acq: 15 Dec 2020 00:12

Tgt Ion: 42 Resp: 745

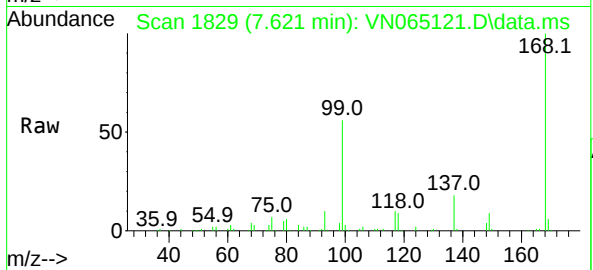
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 16.2  | 36.6  | 54.8# |
| 71  | 12.6  | 33.6  | 50.4# |



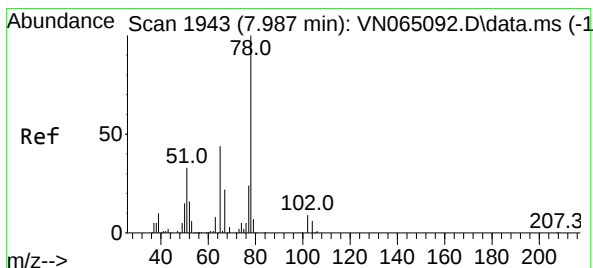
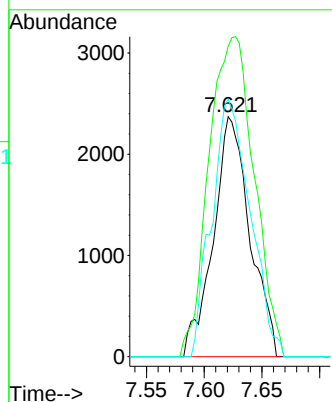
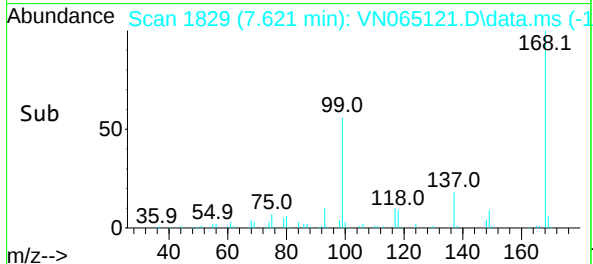


#31  
Cyclohexane  
Concen: 1.32 ug/l  
RT: 7.621 min Scan# 1829  
Delta R.T. 0.003 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

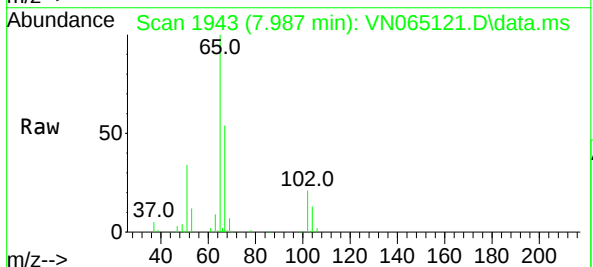
Instrument :  
MSVOA\_N  
ClientSampleId :



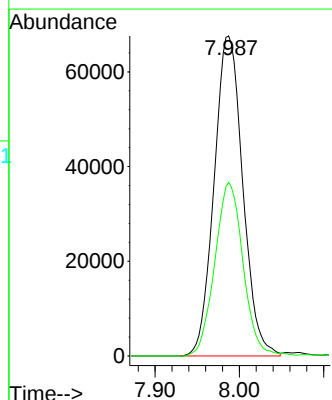
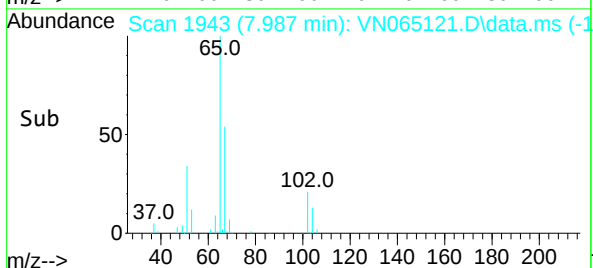
Tgt Ion: 56 Resp: 5229  
Ion Ratio Lower Upper  
56 100  
69 129.4 27.5 41.3#  
84 107.3 73.9 110.9

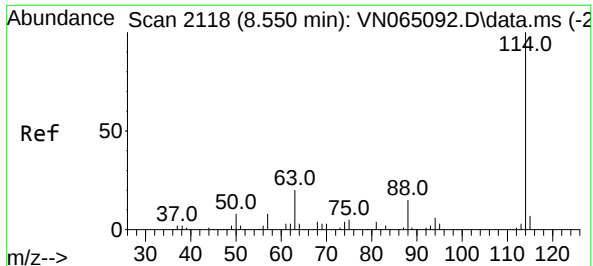


#33  
1,2-Dichloroethane-d4  
Concen: 54.78 ug/l  
RT: 7.987 min Scan# 1943  
Delta R.T. 0.000 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12



Tgt Ion: 65 Resp: 159536  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 108.2

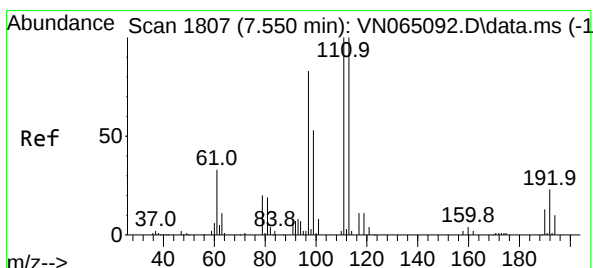
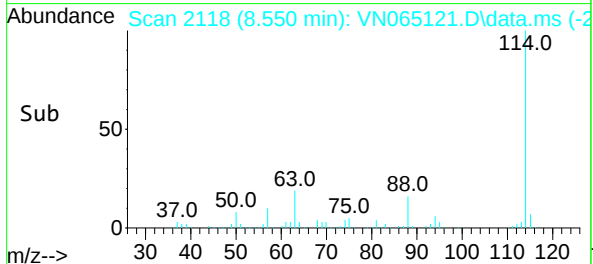
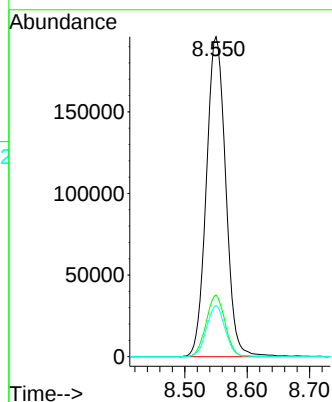
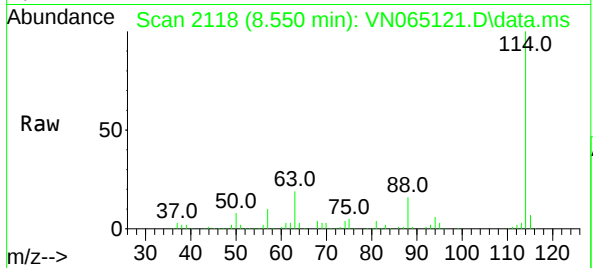




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. -0.000 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

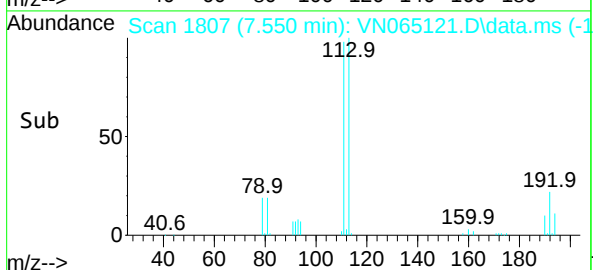
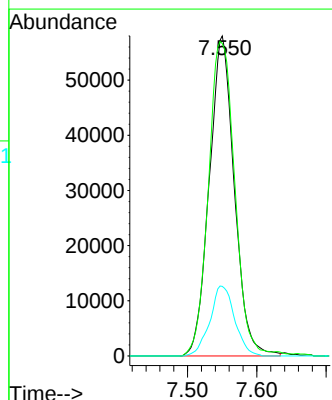
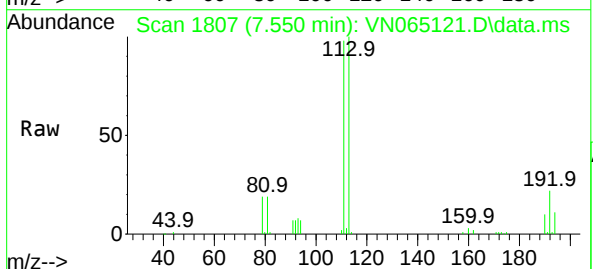
Instrument :  
MSVOA\_N  
ClientSampled :

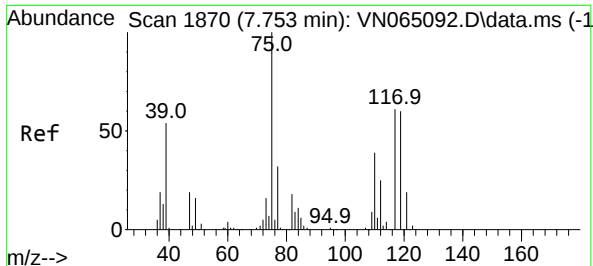
Tgt Ion:114 Resp: 422432  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 38.6  
88 16.0 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 49.52 ug/l  
RT: 7.550 min Scan# 1807  
Delta R.T. -0.000 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Tgt Ion:113 Resp: 145422  
Ion Ratio Lower Upper  
113 100  
111 103.3 81.6 122.4  
192 21.7 16.2 24.2

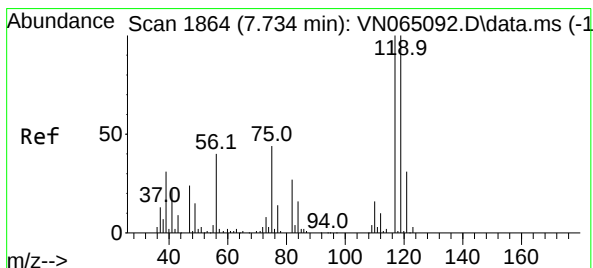
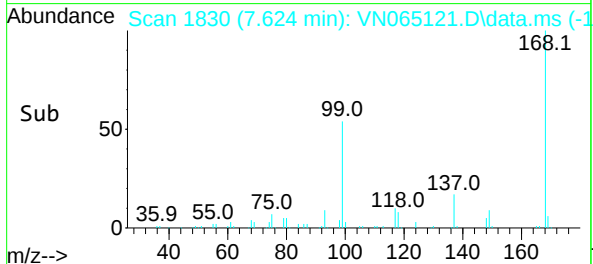
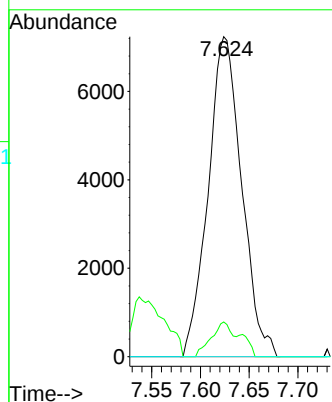
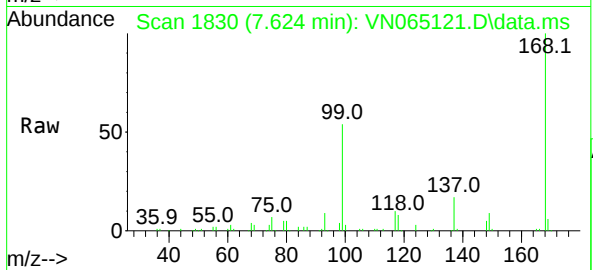




#36  
1,1-Dichloropropene  
Concen: 4.29 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. -0.129 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

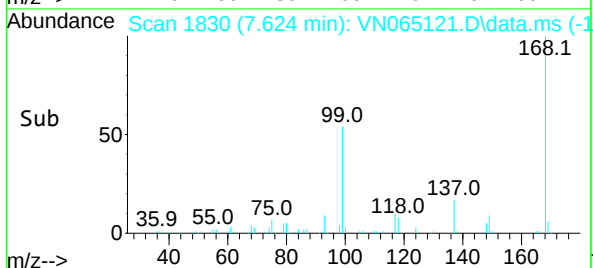
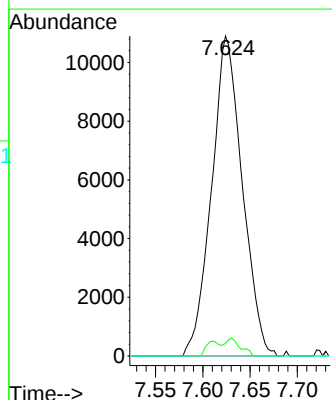
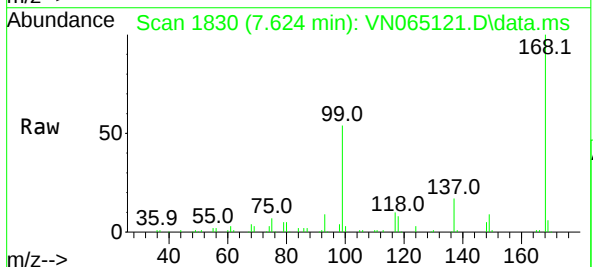
Instrument :  
MSVOA\_N  
ClientSampled :

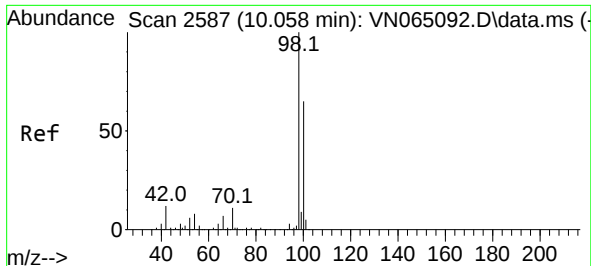
Tgt Ion: 75 Resp: 17288  
Ion Ratio Lower Upper  
75 100  
110 6.9 17.8 53.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 5.29 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. -0.110 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Tgt Ion: 117 Resp: 24601  
Ion Ratio Lower Upper  
117 100  
119 3.9 76.7 115.1#  
121 0.0 25.4 38.2#

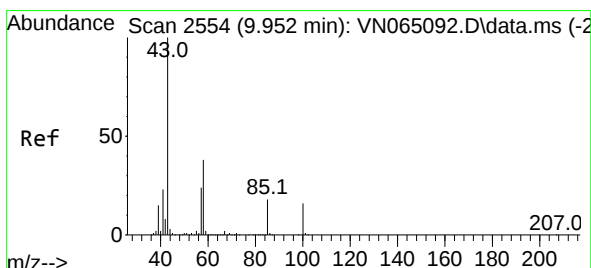
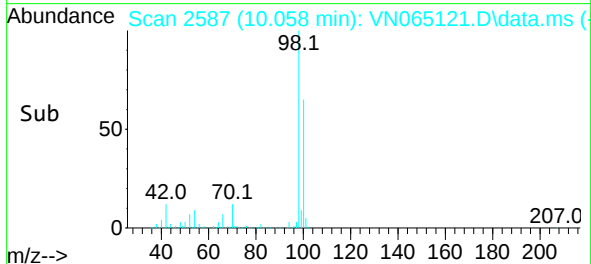
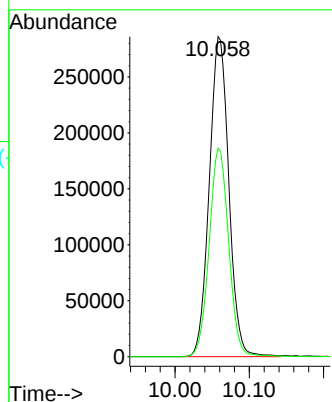
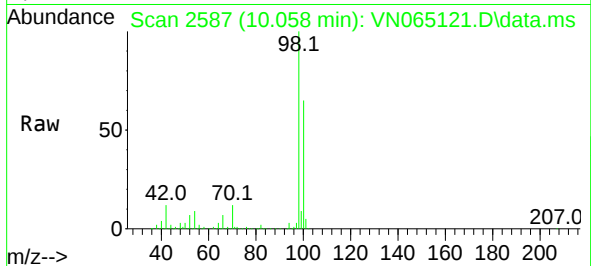




#50  
Toluene-d8  
Concen: 50.27 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. -0.000 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

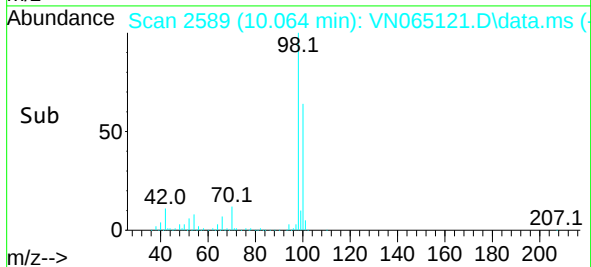
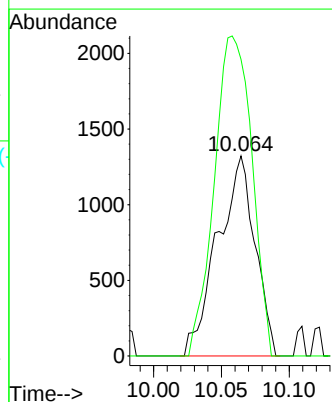
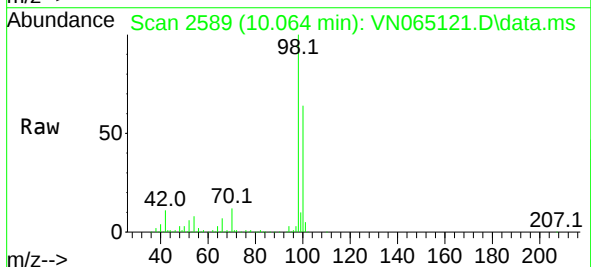
Instrument :  
MSVOA\_N  
ClientSampled :

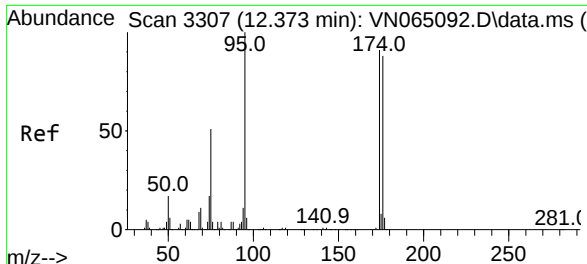
Tgt Ion: 98 Resp: 521984  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.77 ug/l  
RT: 10.064 min Scan# 2589  
Delta R.T. 0.112 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

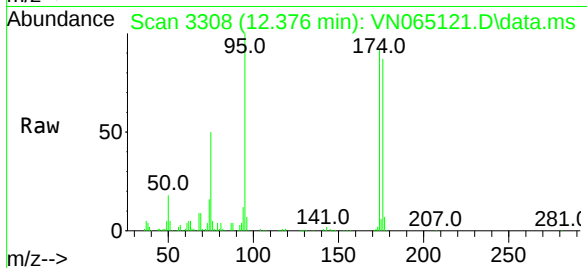
Tgt Ion: 43 Resp: 2538  
Ion Ratio Lower Upper  
43 100  
58 161.1 32.4 48.6#



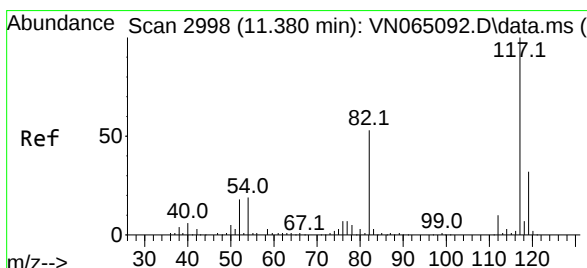
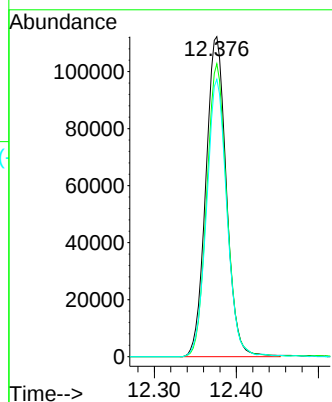
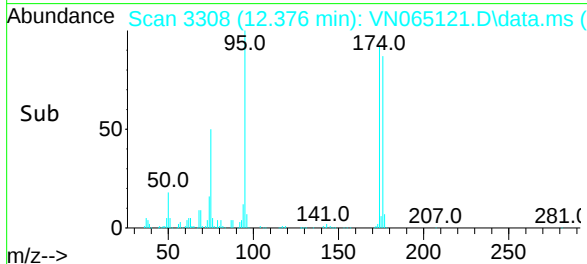


#62  
4-Bromofluorobenzene  
Concen: 54.56 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.003 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

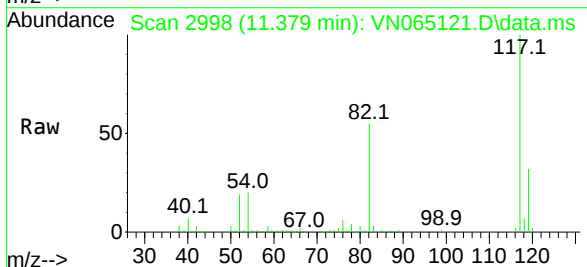
Instrument :  
MSVOA\_N  
ClientSampled :



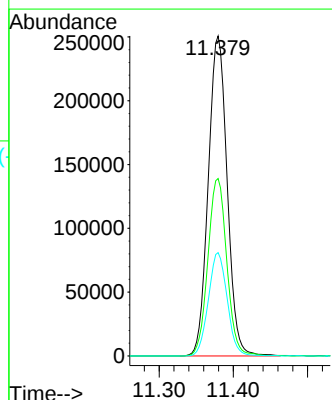
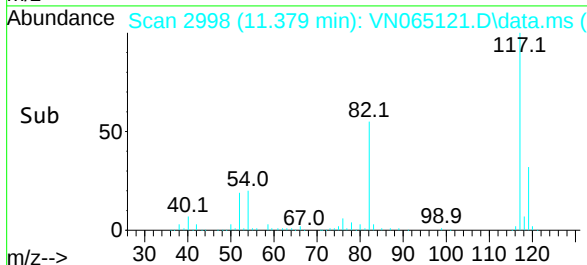
Tgt Ion: 95 Resp: 195085  
Ion Ratio Lower Upper  
95 100  
174 89.8 0.0 160.4  
176 85.2 0.0 158.4

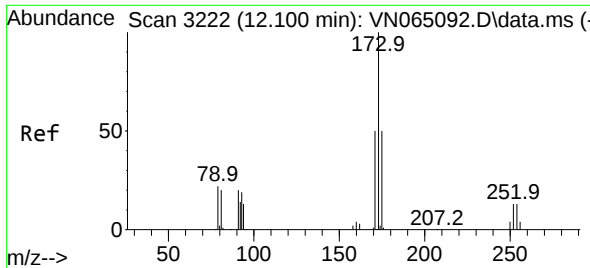


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. -0.001 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12



Tgt Ion: 117 Resp: 442773  
Ion Ratio Lower Upper  
117 100  
82 55.5 44.2 66.2  
119 32.3 25.8 38.6

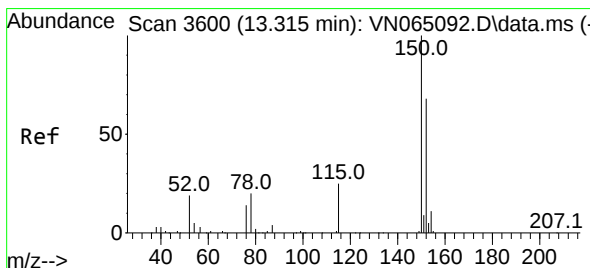
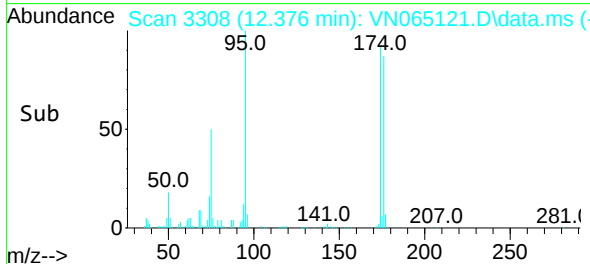
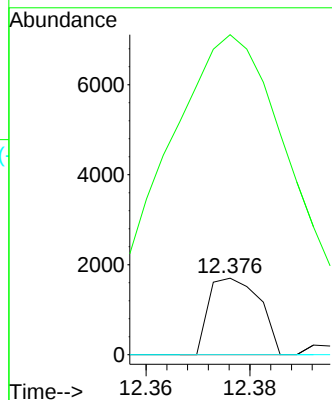
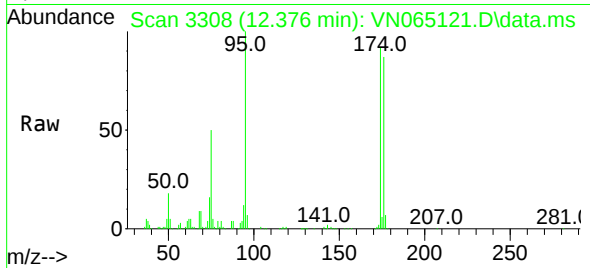




#71  
Bromoform  
Concen: 0.41 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.276 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

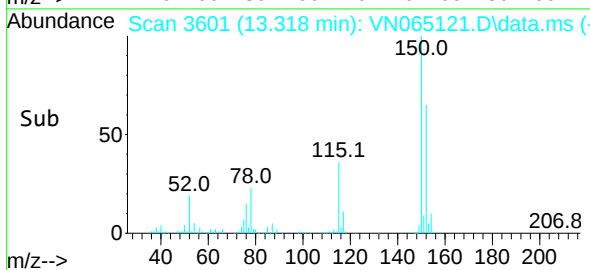
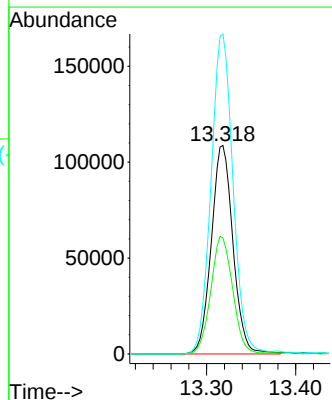
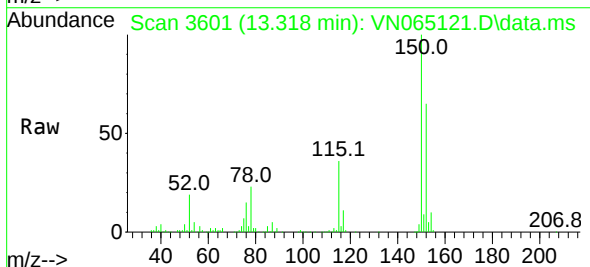
Instrument :  
MSVOA\_N  
ClientSampleId :

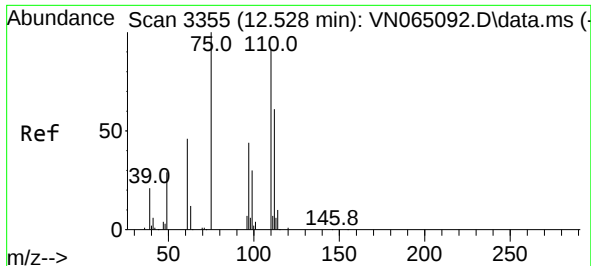
Tgt Ion:173 Resp: 1156  
Ion Ratio Lower Upper  
173 100  
175 909.9 24.3 72.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.003 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Tgt Ion:152 Resp: 183505  
Ion Ratio Lower Upper  
152 100  
115 57.0 29.7 89.1  
150 155.2 0.0 350.6

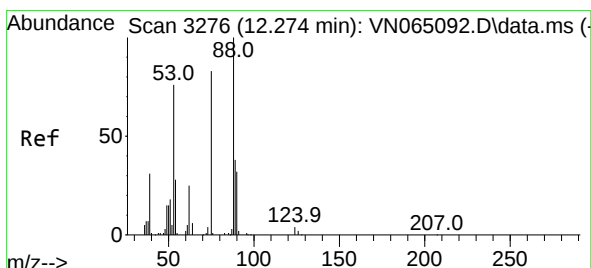
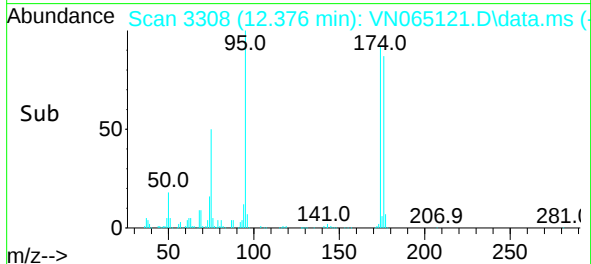
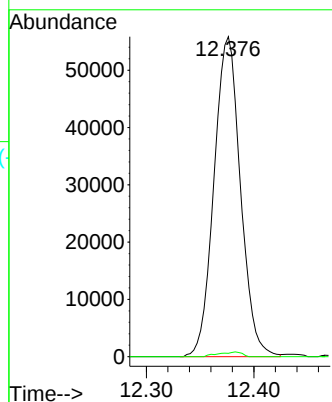
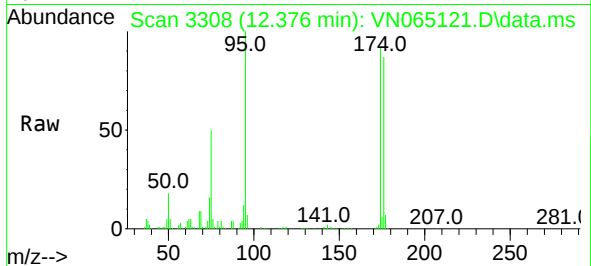




#76  
1,2,3-Trichloropropane  
Concen: 29.01 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. -0.152 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

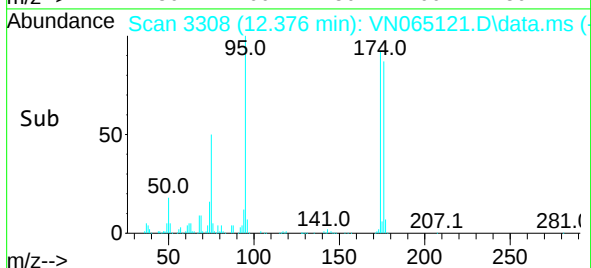
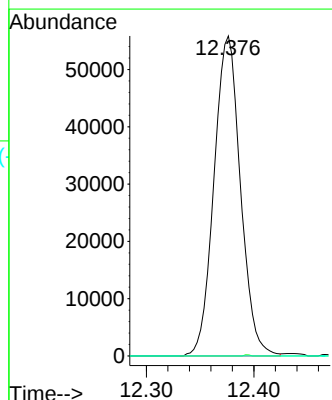
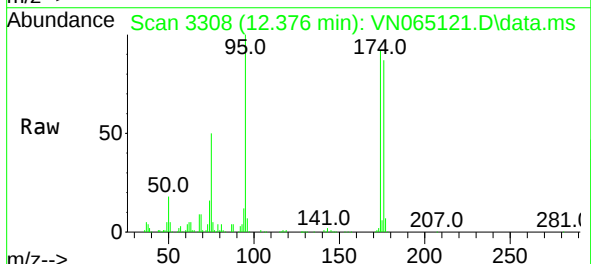
Instrument :  
MSVOA\_N  
ClientSampled :

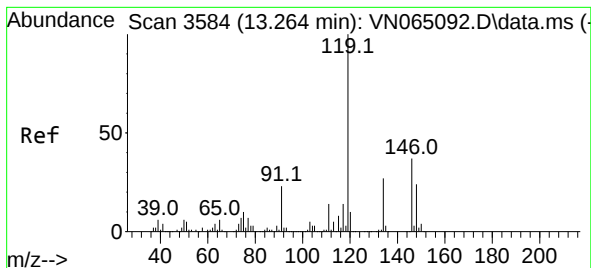
Tgt Ion: 75 Resp: 95534  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 80.73 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.102 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

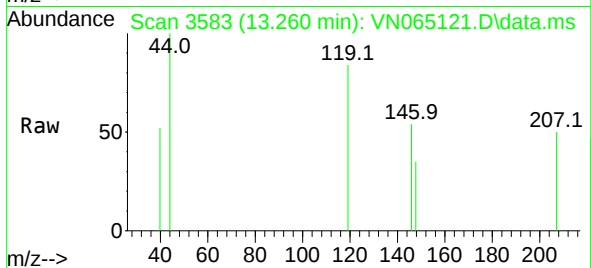
Tgt Ion: 75 Resp: 95534  
Ion Ratio Lower Upper  
75 100  
53 0.1 67.0 100.4#  
89 0.0 39.6 59.4#



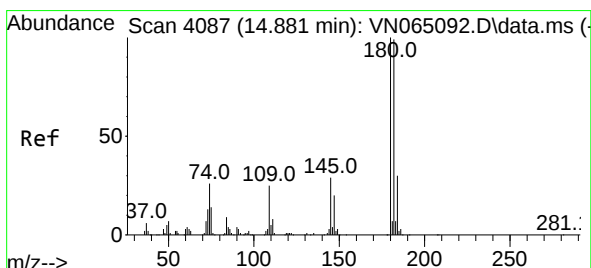
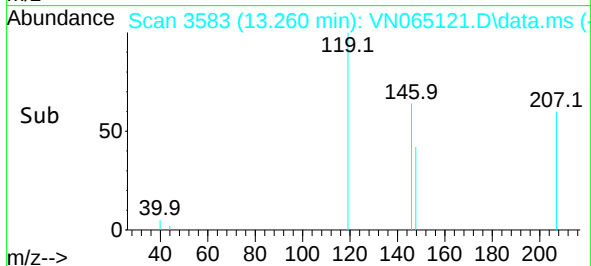
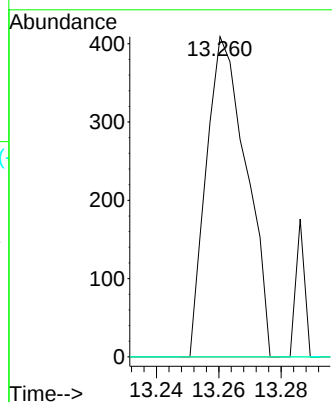


#86  
p-Isopropyltoluene  
Concen: 1.10 ug/l  
RT: 13.260 min Scan# 3583  
Delta R.T. -0.004 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Instrument :  
MSVOA\_N  
ClientSampled :



Tgt Ion:119 Resp: 365  
Ion Ratio Lower Upper  
119 100  
134 0.0 13.1 39.1#  
91 0.0 11.5 34.5#



#93  
1,2,4-Trichlorobenzene  
Concen: 3.75 ug/l  
RT: 14.884 min Scan# 4088  
Delta R.T. 0.003 min  
Lab File: VN065121.D  
Acq: 15 Dec 2020 00:12

Tgt Ion:180 Resp: 63  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.6 142.9#  
145 0.0 15.3 45.8#

