

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121620\  
 Data File : VN065169.D  
 Acq On : 16 Dec 2020 12:01  
 Operator : JC/MD  
 Sample : L5051-03 5X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 14B-3

Manual Integrations  
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 12/22/2020 11:17:13 AM

Quant Time: Dec 21 13:57:56 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N121520w.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Dec 15 15:18:54 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.151  | 128   | 115625   | 30.00    | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.550  | 114   | 563208   | 30.00    | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.379 | 117   | 500183   | 30.00    | ug/l   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 7.984  | 65    | 225149   | 28.45    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 94.83%   |
| 60) 4-Bromofluorobenzene    | 12.376 | 95    | 185834m  | 23.65    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 78.83%   |
| 63) Toluene-d8              | 10.058 | 98    | 673110   | 27.88    | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 92.93%   |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
| 16) Carbon Disulfide        | 4.020  | 76    | 4594     | 0.25     | ug/l   | 97       |
| 25) Chloroform              | 7.331  | 83    | 94253    | 7.51     | ug/l   | 93       |
| 41) Bromodichloromethane    | 9.367  | 83    | 6369     | 0.62     | ug/l # | 84       |
| -----                       |        |       |          |          |        |          |

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

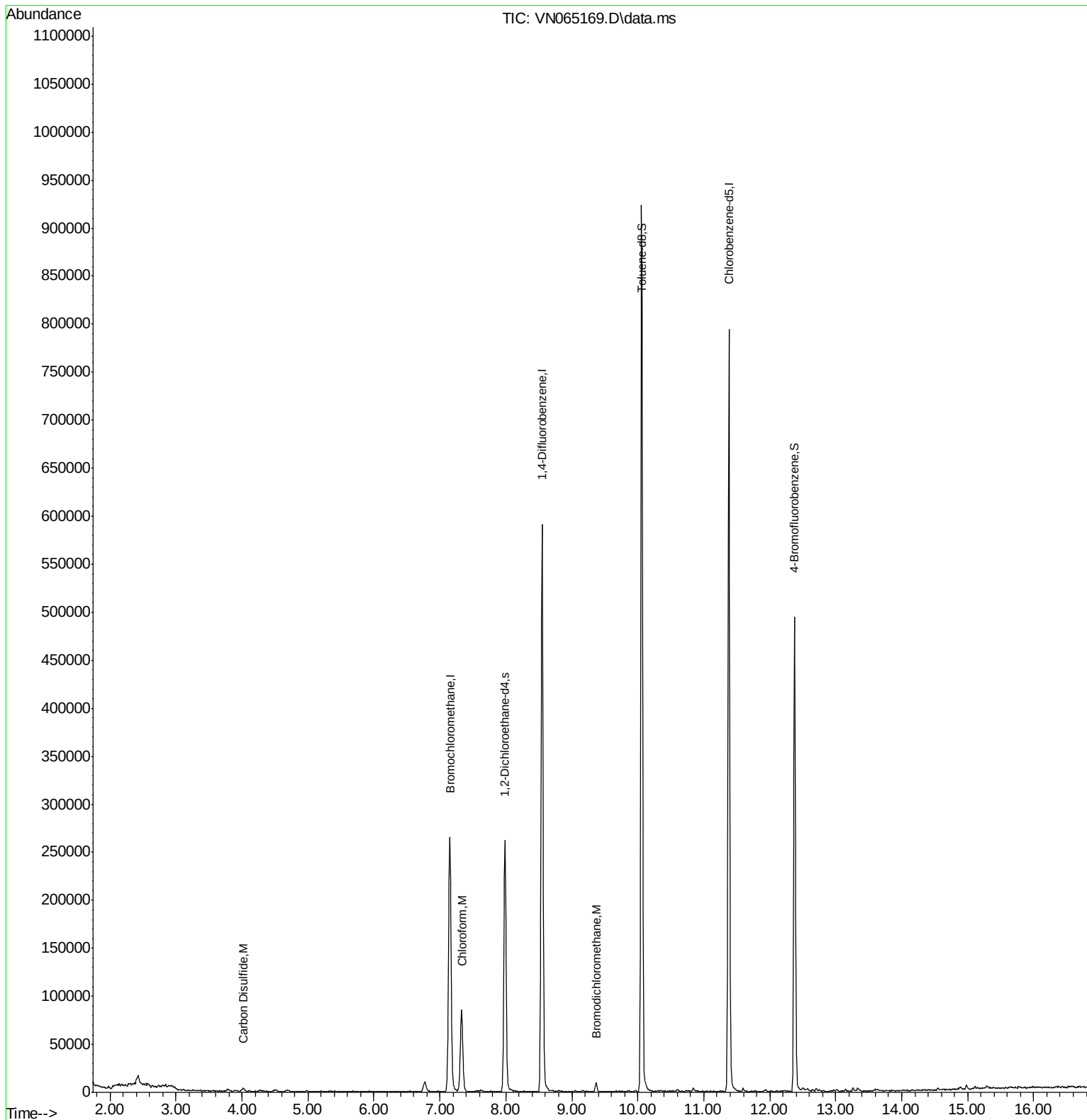
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121620\  
Data File : VN065169.D  
Acq On : 16 Dec 2020 12:01  
Operator : JC/MD  
Sample : L5051-03 5X  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

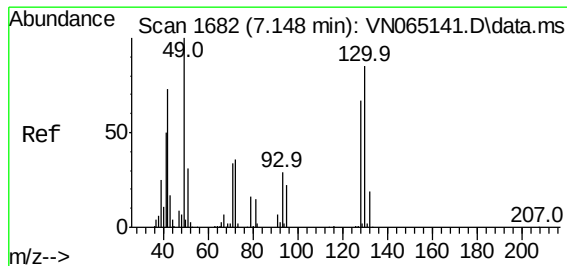
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-3

Manual Integrations  
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Quant Time: Dec 21 13:57:56 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N121520W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Dec 15 15:18:54 2020  
Response via : Initial Calibration





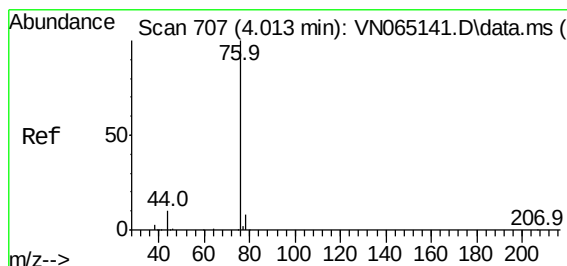
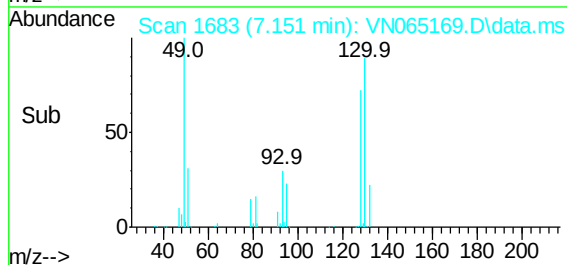
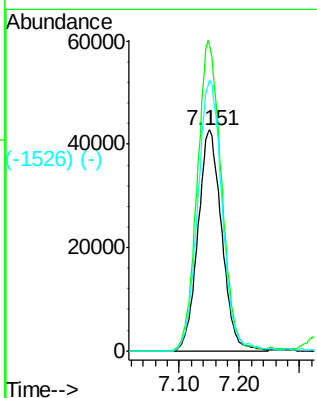
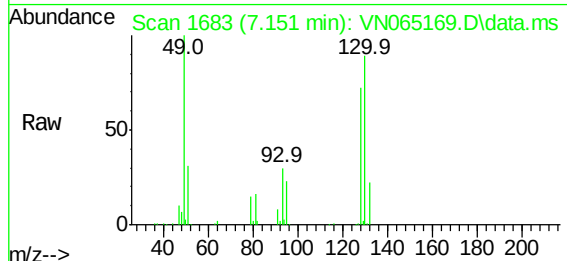
Bromochloromethane  
Concen: 30.00 ug/l  
RT: 7.151 min Scan# 1683  
Delta R.T. 0.003 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

Tgt Ion: 128 Resp: 115625  
Ion Ratio Lower Upper  
128 100  
49 142.6 0.0 475.5  
130 124.3 0.0 315.3

Instrument :  
MSVOA\_N  
ClientSampled :  
14B-3

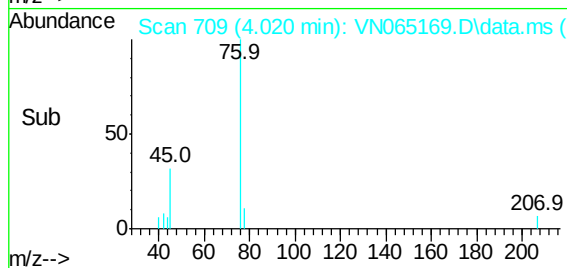
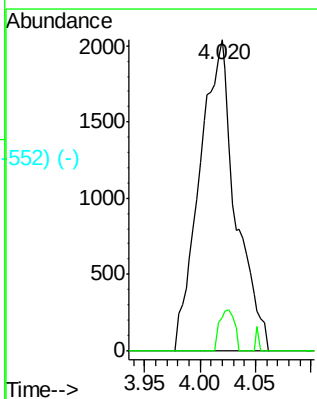
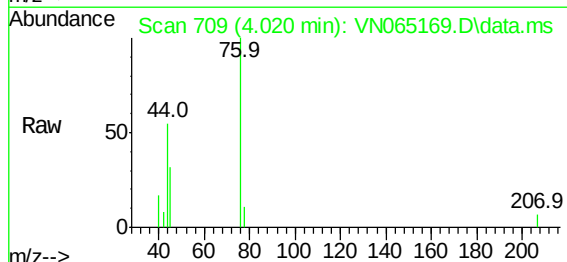
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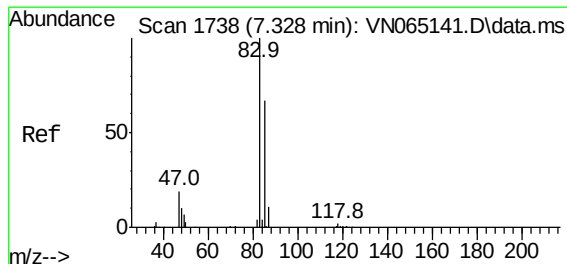
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Carbon Disulfide  
Concen: 0.25 ug/l  
RT: 4.020 min Scan# 709  
Delta R.T. 0.006 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

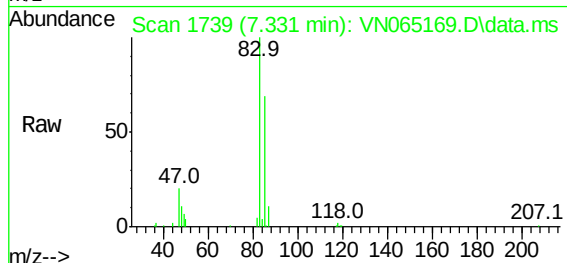
Tgt Ion: 76 Resp: 4594  
Ion Ratio Lower Upper  
76 100  
78 10.7 7.6 11.4





#259 (-)  
Chloroform  
Concen: 7.51 ug/l  
RT: 7.331 min Scan# 1739  
Delta R.T. 0.003 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

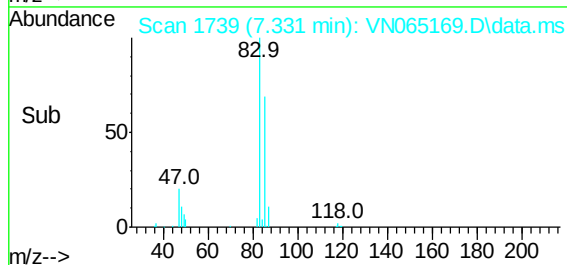
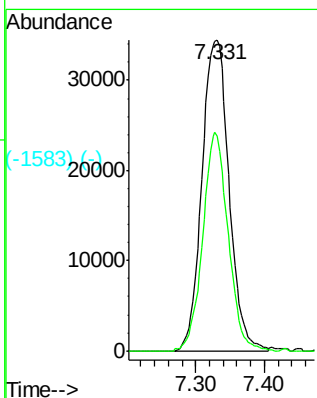
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-3



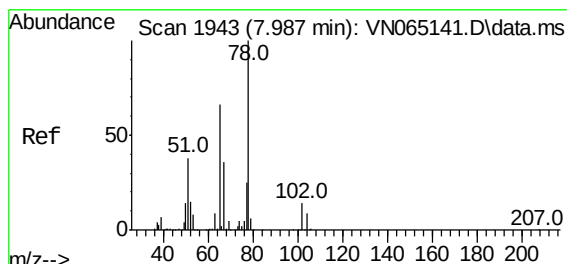
Tgt Ion: 83 Resp: 94253  
Ion Ratio Lower Upper  
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85 68.6 50.6 75.8

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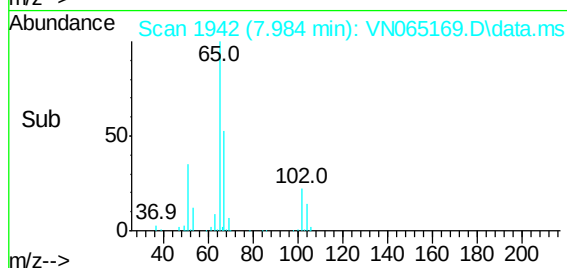
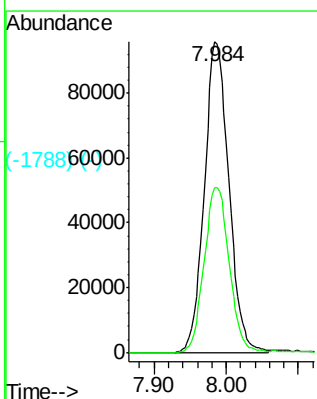
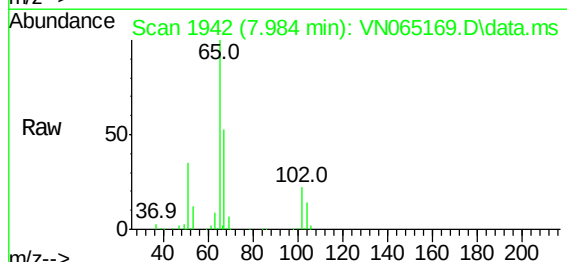


#1583 (-)

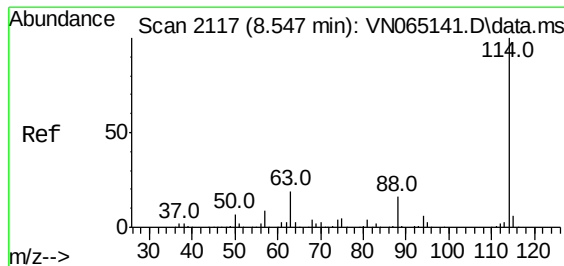


#275 (-)  
1,2-Dichloroethane-d4  
Concen: 28.45 ug/l  
RT: 7.984 min Scan# 1942  
Delta R.T. -0.003 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

Tgt Ion: 65 Resp: 225149  
Ion Ratio Lower Upper  
65 100  
67 54.5 41.1 61.7



#1788 (-)

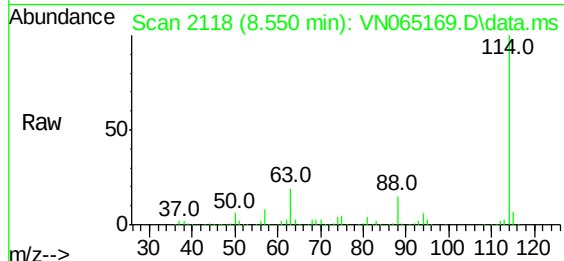


#201 (-)  
1,4-Difluorobenzene  
Concen: 30.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. 0.003 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

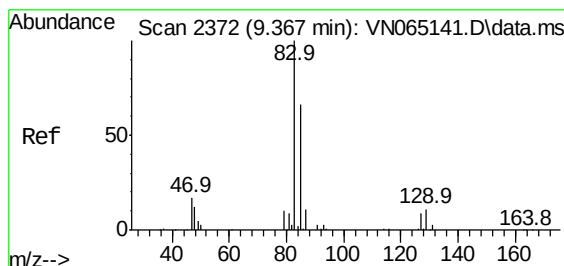
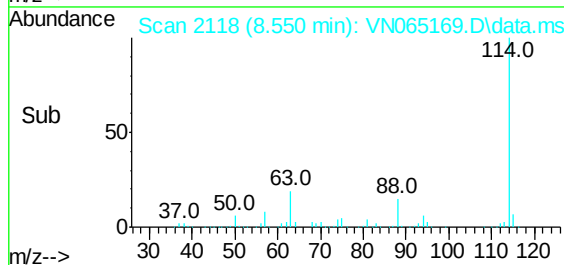
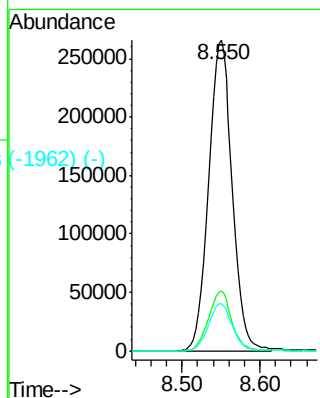
Instrument :  
MSVOA\_N  
ClientSampled :  
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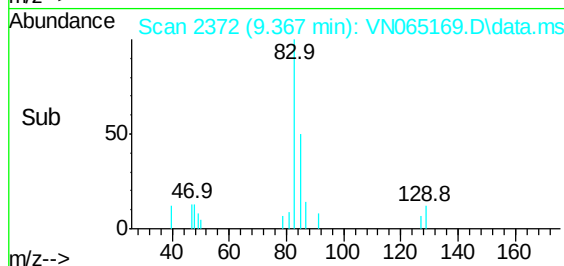
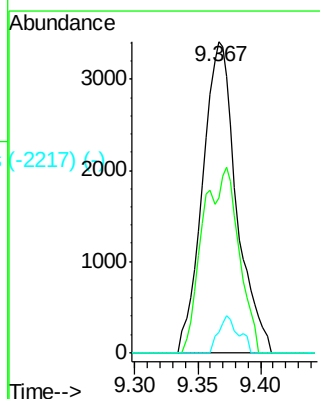
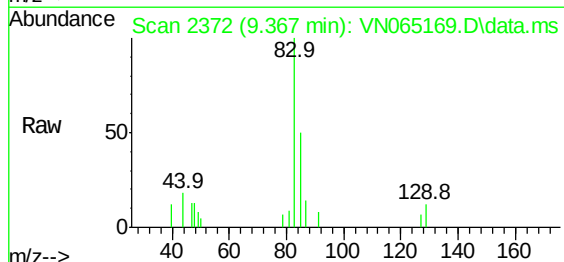


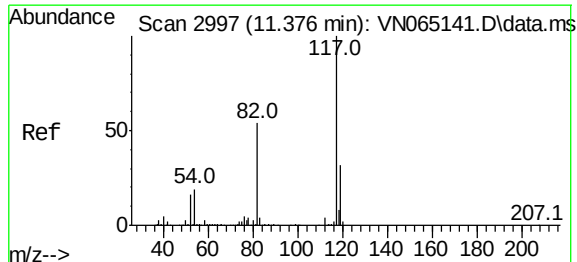
Tgt Ion:114 Resp: 563208  
Ion Ratio Lower Upper  
114 100  
63 18.9 18.5 27.7  
88 15.4 13.0 19.6



#218 (-)  
Bromodichloromethane  
Concen: 0.62 ug/l  
RT: 9.367 min Scan# 2372  
Delta R.T. -0.000 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

Tgt Ion: 83 Resp: 6369  
Ion Ratio Lower Upper  
83 100  
85 49.8 51.0 76.4#  
127 6.5 6.2 9.4



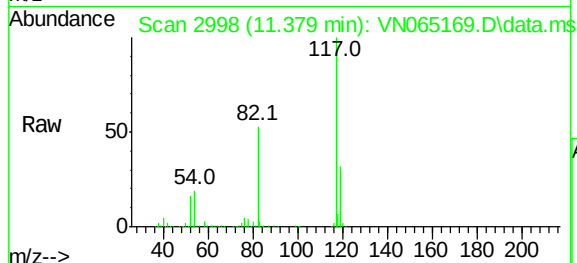


#5983 (-)  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. 0.003 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

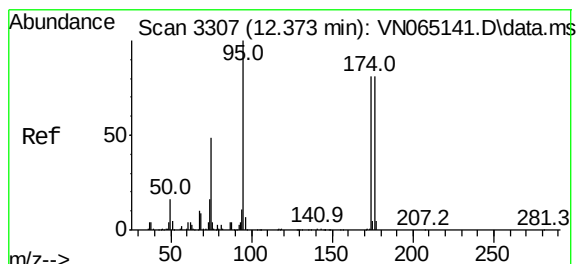
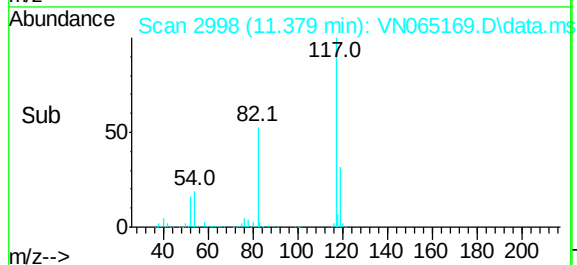
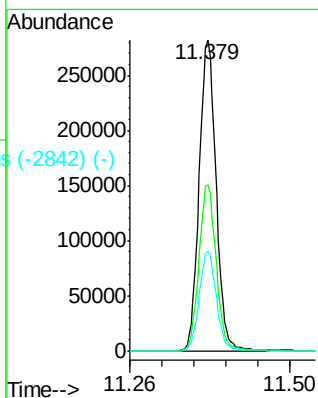
Instrument :  
MSVOA\_N  
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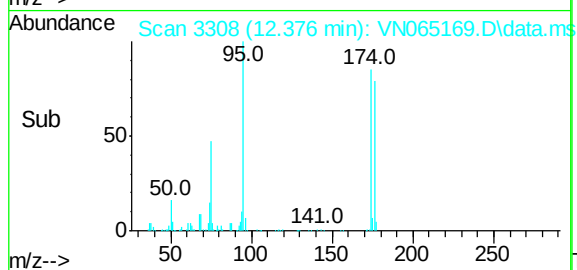
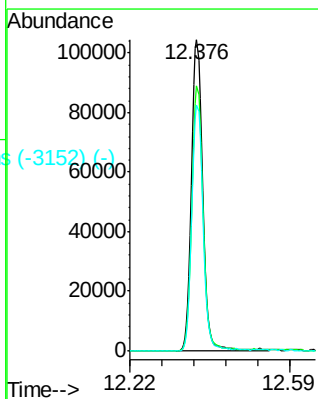
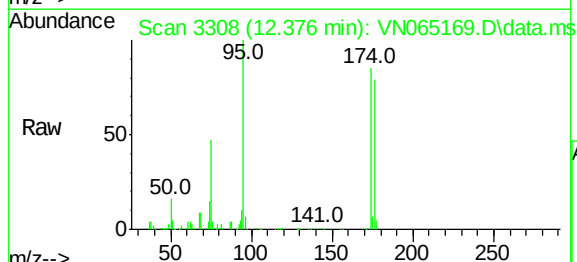


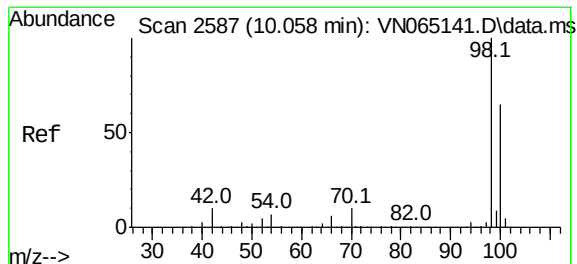
Tgt Ion:117 Resp: 500183  
Ion Ratio Lower Upper  
117 100  
82 54.0 47.8 71.8  
119 32.4 25.7 38.5



#6093 (-)  
4-Bromofluorobenzene  
Concen: 23.65 ug/l m  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.003 min  
Lab File: VN065169.D  
Acq: 16 Dec 2020 12:01

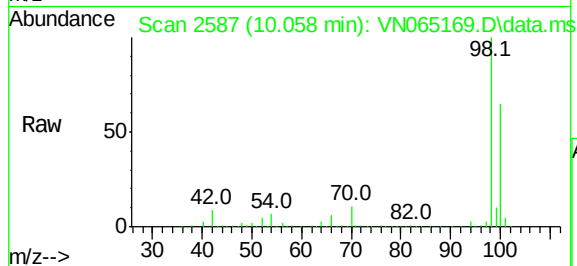
Tgt Ion: 95 Resp: 185834  
Ion Ratio Lower Upper  
95 100  
174 0.2 56.4 84.6#  
176 0.2 53.3 79.9#





#69  
 Toluene-d8  
 Concen: 27.88 ug/l  
 RT: 10.058 min Scan# 2587  
 Delta R.T. -0.000 min  
 Lab File: VN065169.D  
 Acq: 16 Dec 2020 12:01

**Instrument :**  
 MSVOA\_N  
**ClientSampleId :**  
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Tgt Ion: 98 Resp: 673110

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 64.7  | 49.4  | 74.2  |

**Manual Integrations**  
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