

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\  
 Data File : VN051629.D  
 Acq On : 1 Oct 2018 11:36  
 Operator : MD\SY  
 Sample : J5090-06  
 Misc : Sample  
 ALS Vial : 5 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP-BLANK

Quant Time: Oct 02 00:59:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Sep 29 01:07:29 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 100007   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 492658   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 404305   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 212829   | 30.56    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.87% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 127292   | 20.47    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 68.23%  |
| 63) Toluene-d8            | 10.09  | 98    | 561160   | 29.42    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 98.07%  |

## Target Compounds

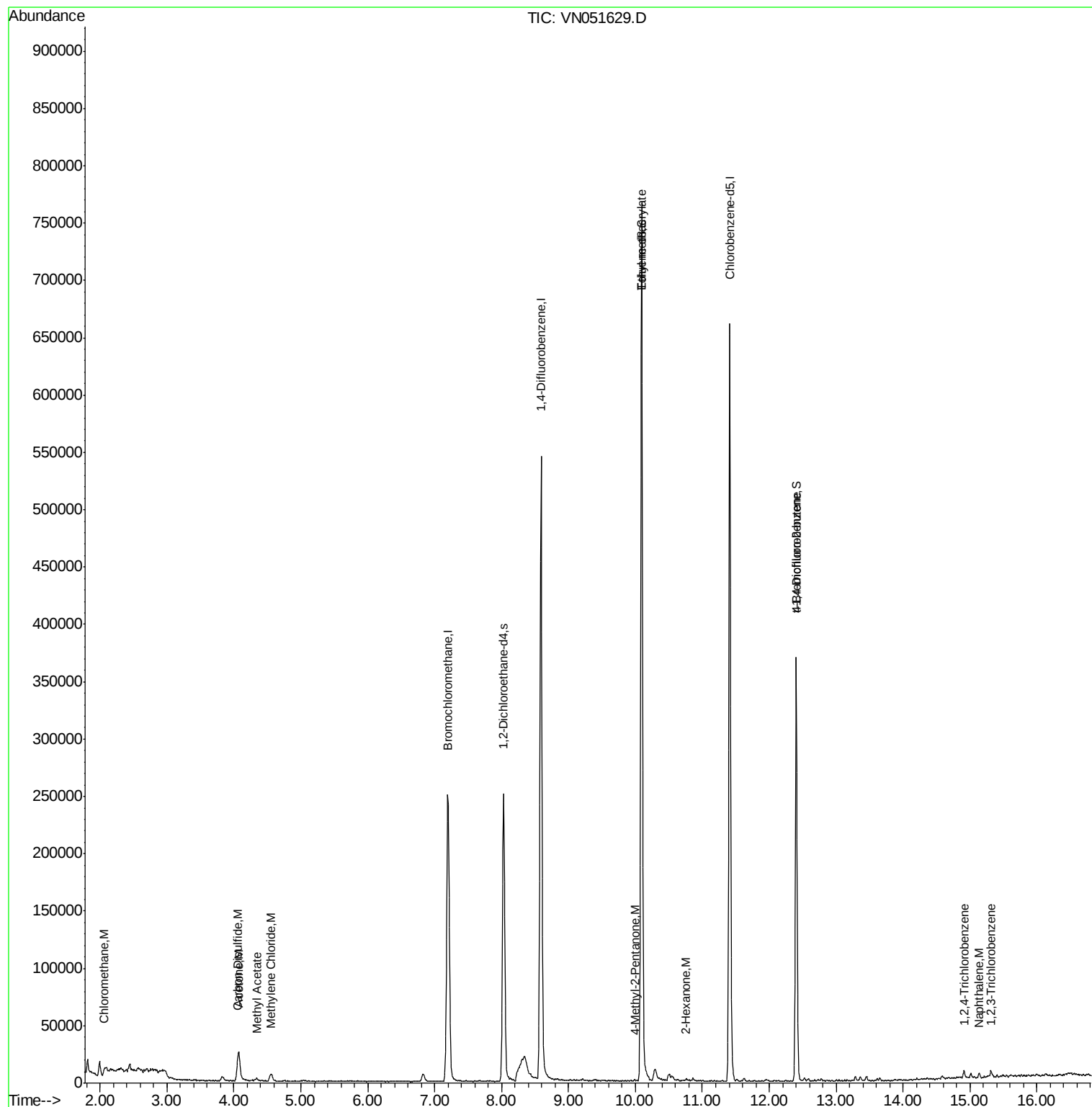
|                             |       |     |       |        | Ovalue |    |
|-----------------------------|-------|-----|-------|--------|--------|----|
| 3) Chloromethane            | 2.06  | 50  | 2244  | 0.228  | ug/l   | 94 |
| 12) Methyl Acetate          | 4.34  | 43  | 1649  | 0.309  | ug/l # | 90 |
| 15) Acetone                 | 4.06  | 58  | 249   | 0.445  | ug/l   | 97 |
| 16) Carbon Disulfide        | 4.05  | 76  | 4794  | 0.246  | ug/l # | 91 |
| 18) Methylene Chloride      | 4.55  | 84  | 4700  | 0.677  | ug/l   | 91 |
| 51) Ethyl methacrylate      | 10.09 | 69  | 2045  | 0.314  | ug/l   | 98 |
| 58) 4-Methyl-2-Pentanone    | 9.99  | 43  | 1012  | 0.220  | ug/l # | 55 |
| 59) 2-Hexanone              | 10.75 | 43  | 606   | 0.201  | ug/l # | 68 |
| 77) t-1,4-Dichloro-2-butene | 12.40 | 75  | 63127 | 38.699 | ug/l # | 11 |
| 89) 1,2,4-Trichlorobenzene  | 14.91 | 180 | 1933  | 0.391  | ug/l # | 16 |
| 91) Naphthalene             | 15.14 | 128 | 3587  | 8.520  | ug/l # | 73 |
| 92) 1,2,3-Trichlorobenzene  | 15.32 | 180 | 1791  | 0.360  | ug/l   | 79 |

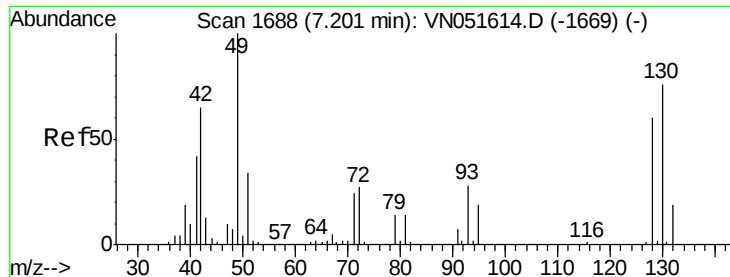
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 5 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Quant Time: Oct 02 00:59:49 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Sep 29 01:07:29 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051629.D

Acq: 1 Oct 2018 11:36

Instrument :

MSVOA\_N

ClientSampleId :

TRIP-BLANK

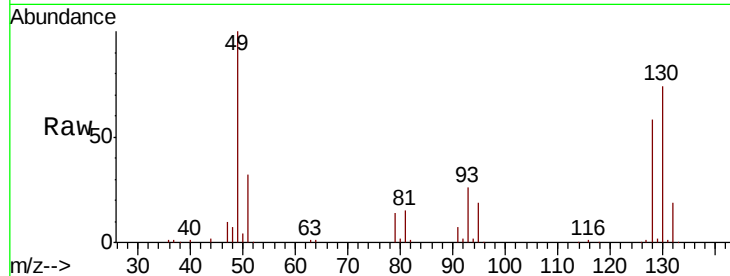
Tot Ion:128 Resp: 100007

Ion Ratio Lower Upper

128 100

49 171.0 0.0 426.8

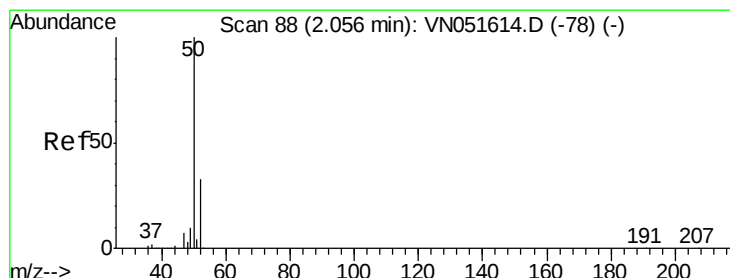
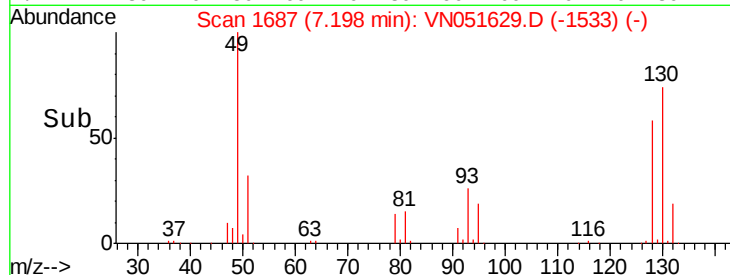
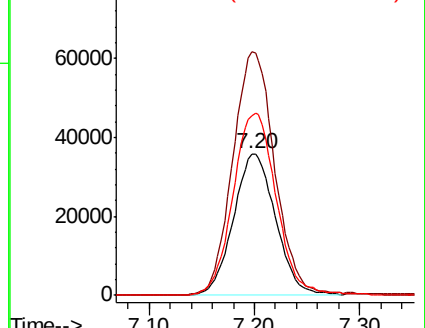
130 131.9 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.228 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051629.D

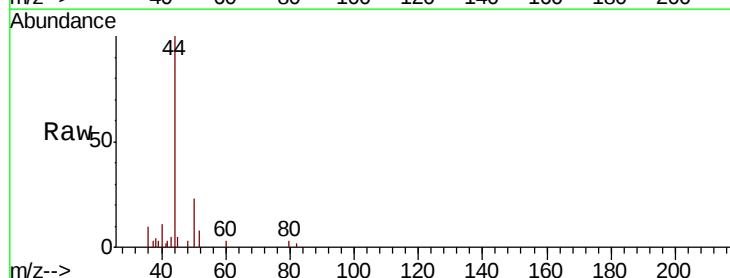
Acq: 1 Oct 2018 11:36

Tgt Ion: 50 Resp: 2244

Ion Ratio Lower Upper

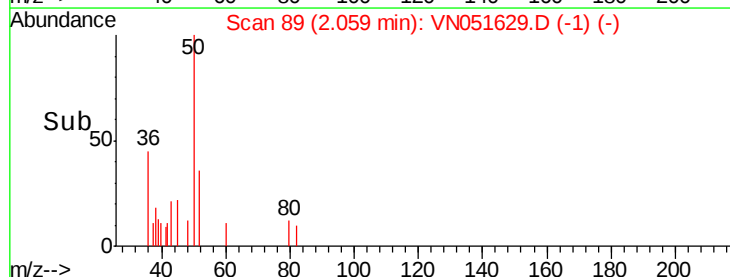
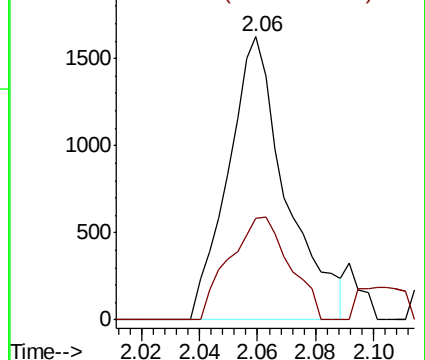
50 100

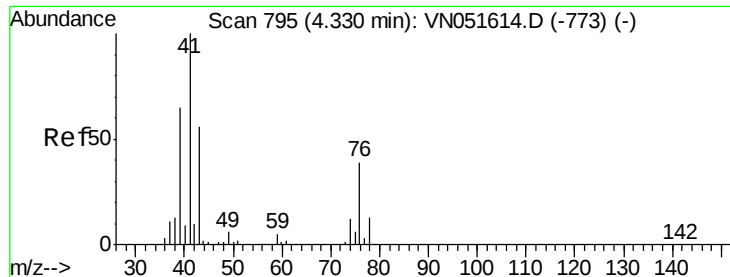
52 35.9 26.0 39.0



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#12

Methvl Acetate

Concen: 0.309 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051629.D

Acq: 1 Oct 2018 11:36

Instrument :

MSVOA\_N

ClientSampled :

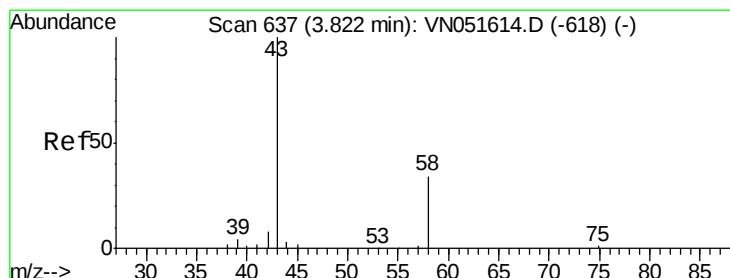
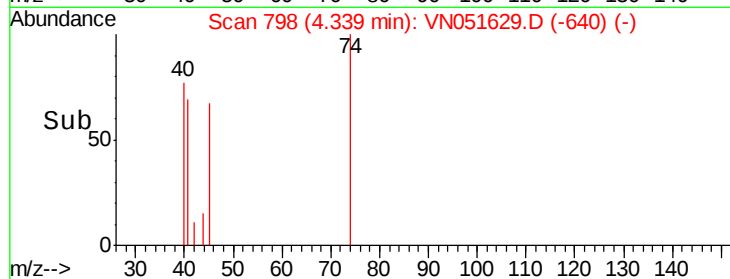
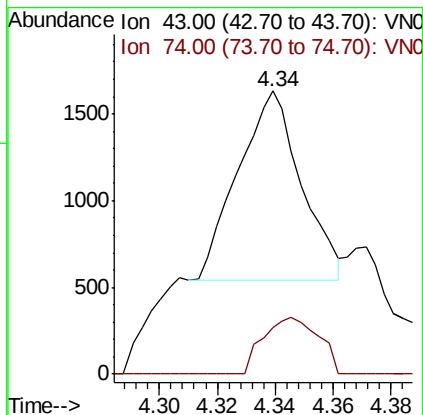
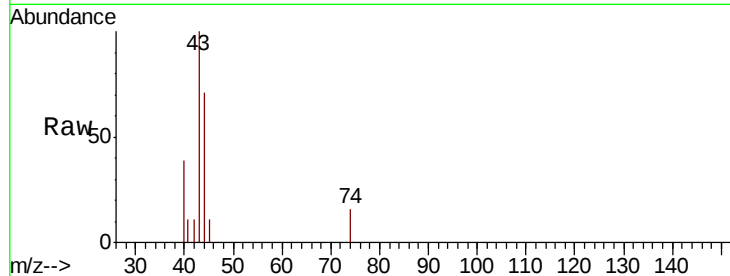
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Tot Ion: 43 Resp: 1649

Ion Ratio Lower Upper

43 100

74 25.8 17.0 25.4#



#15

Acetone

Concen: 0.445 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.24 min

Lab File: VN051629.D

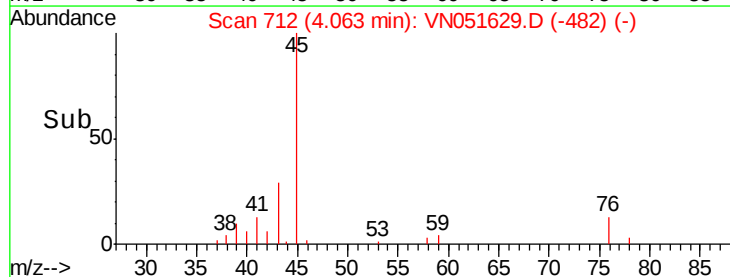
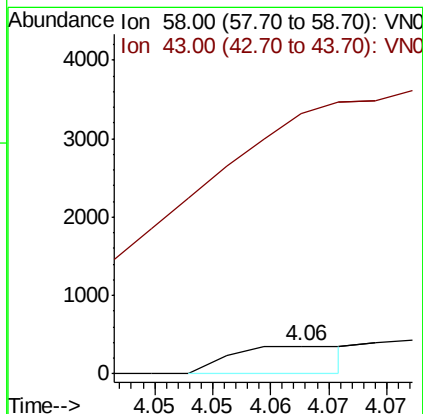
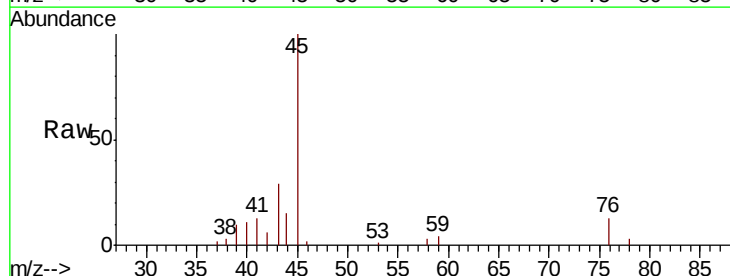
Acq: 1 Oct 2018 11:36

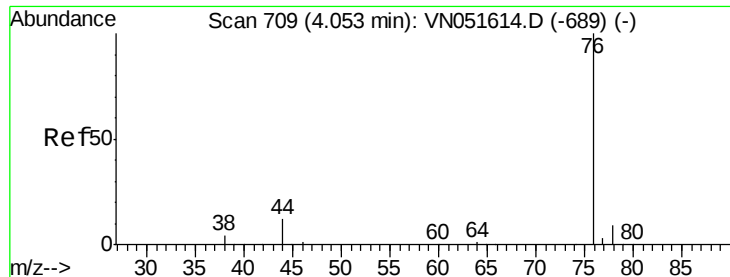
Tgt Ion: 58 Resp: 249

Ion Ratio Lower Upper

58 100

43 303.9 238.0 357.0

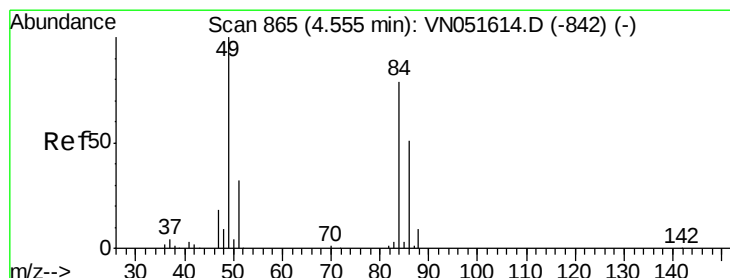
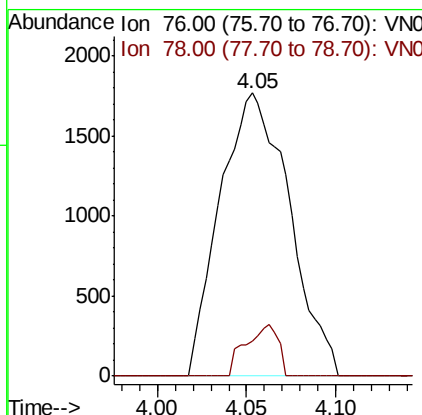
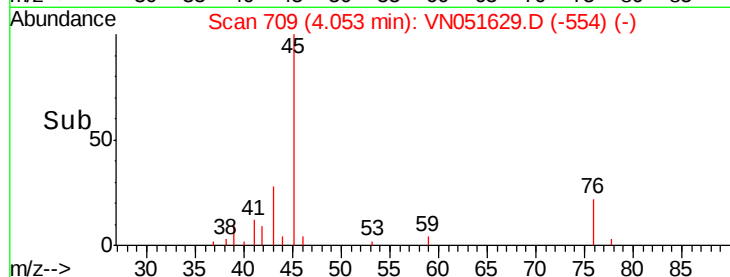
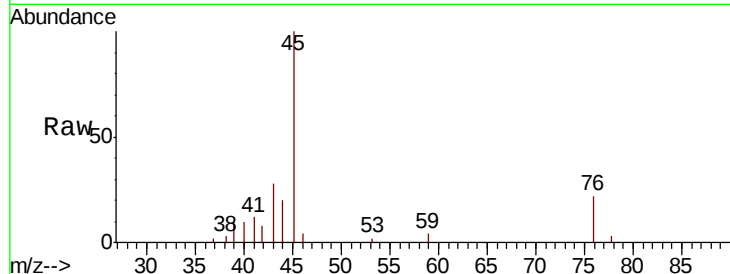




#16  
Carbon Disulfide  
Concen: 0.246 ug/l  
RT: 4.05 min Scan# 709  
Delta R.T. -0.00 min  
Lab File: VN051629.D  
Acq: 1 Oct 2018 11:36

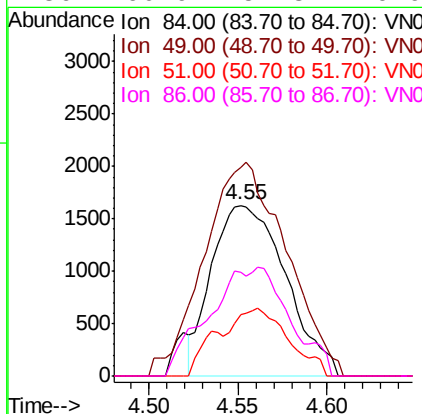
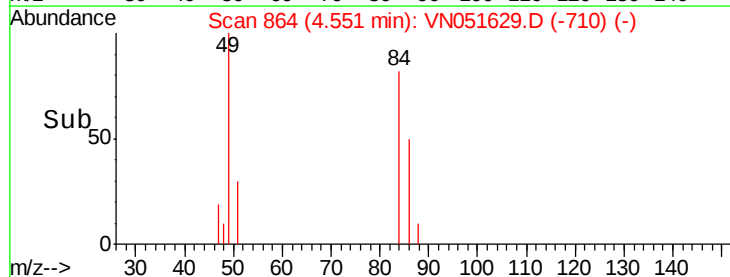
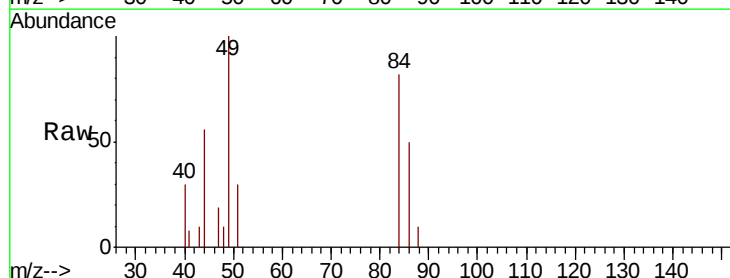
Instrument :  
MSVOA\_N  
ClientSampleId :  
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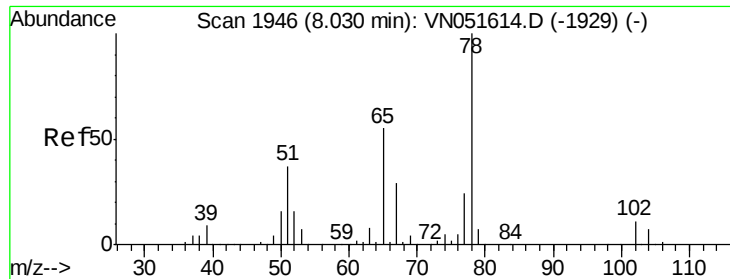
Tot Ion: 76 Resp: 4794  
Ion Ratio Lower Upper  
76 100  
78 12.4 7.3 10.9#



#18  
Methylene Chloride  
Concen: 0.677 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VN051629.D  
Acq: 1 Oct 2018 11:36

Tgt Ion: 84 Resp: 4700  
Ion Ratio Lower Upper  
84 100  
49 112.8 100.9 151.3  
51 36.4 32.5 48.7  
86 60.9 51.3 76.9

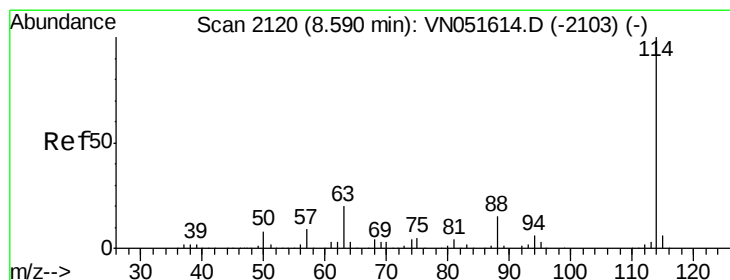
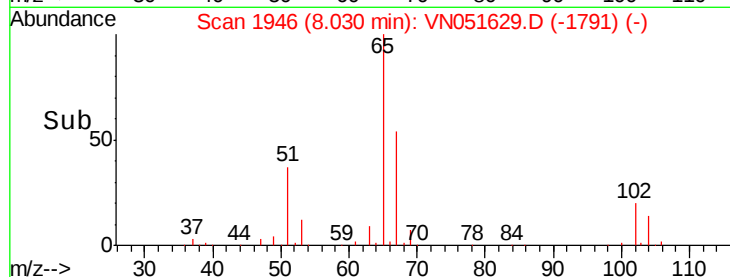
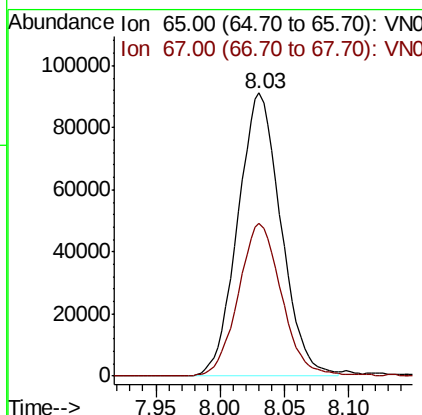
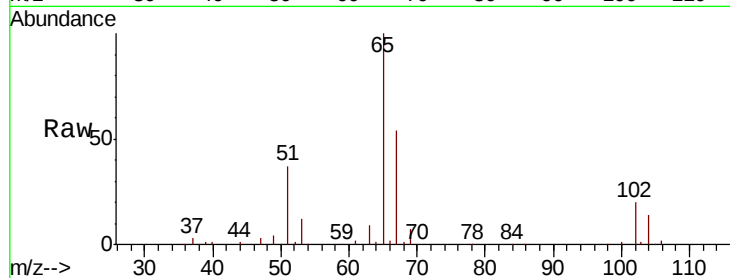




#27  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. -0.00 min  
 Lab File: VN051629.D  
 Acq: 1 Oct 2018 11:36

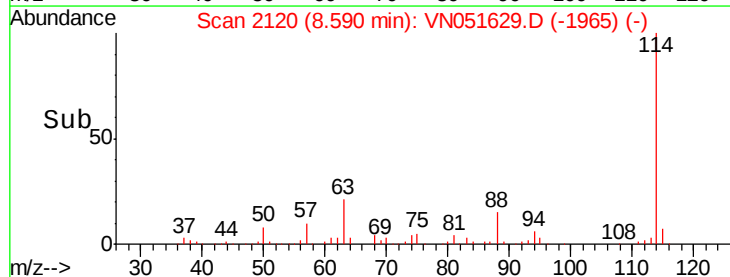
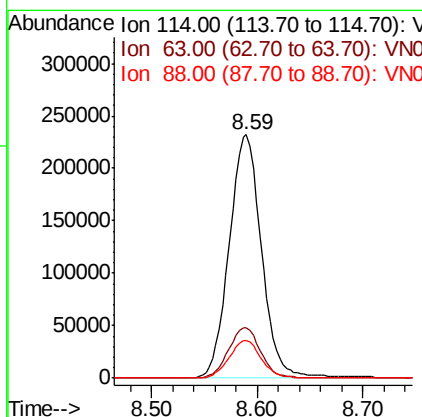
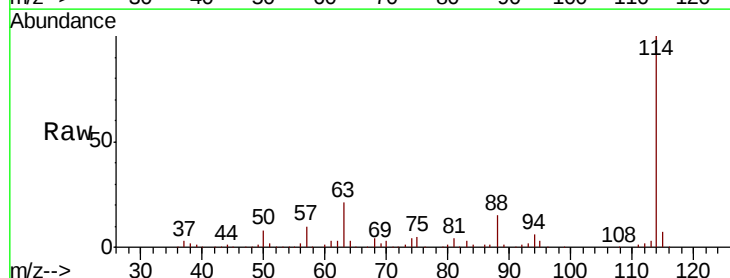
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP-BLANK

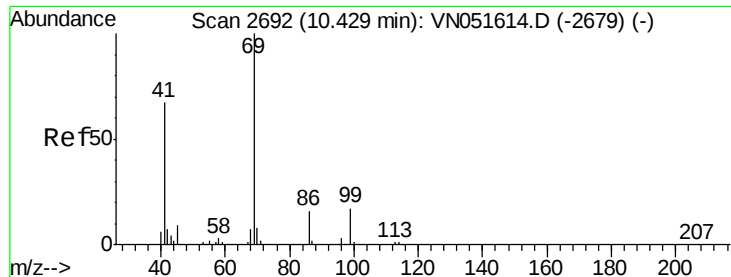
Tot Ion: 65 Resp: 212829  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 43.1 64.7



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.59 min Scan# 2120  
 Delta R.T. -0.00 min  
 Lab File: VN051629.D  
 Acq: 1 Oct 2018 11:36

Tgt Ion: 114 Resp: 492658  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 16.4 24.6  
 88 15.3 12.6 18.8





#51

Ethyl methacrylate

Concen: 0.314 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.34 min

Lab File: VN051629.D

Acq: 1 Oct 2018 11:36

Instrument :

MSVOA\_N

ClientSampleId :

TRIP-BLANK

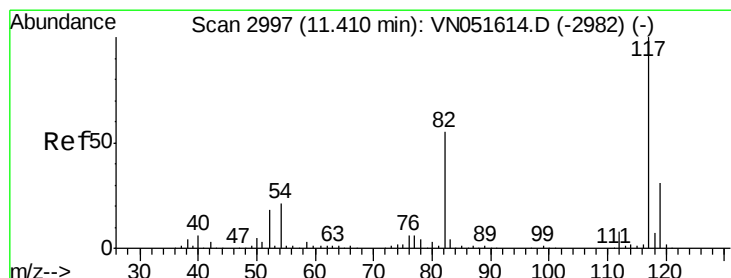
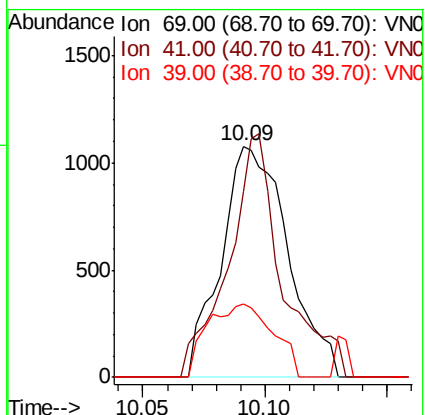
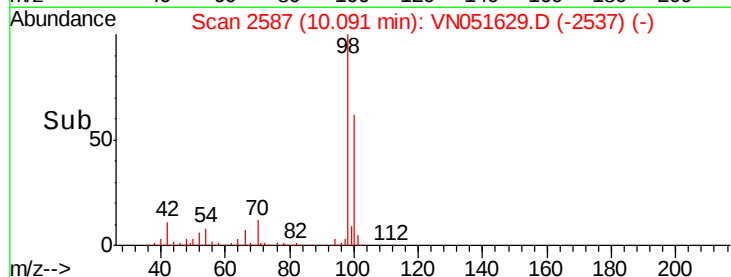
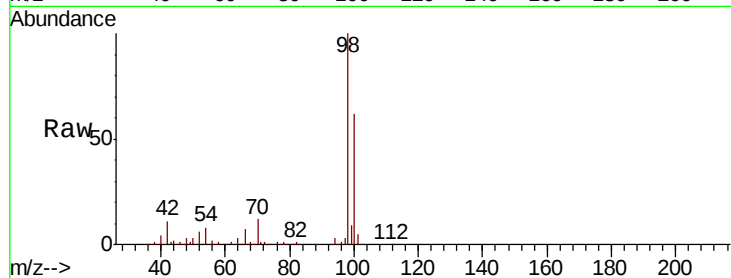
Tot Ion: 69 Resp: 2045

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 65.9  | 33.3  | 99.8  |
| 39  | 31.9  | 17.2  | 51.6  |

69 100

41 65.9 33.3 99.8

39 31.9 17.2 51.6



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN051629.D

Acq: 1 Oct 2018 11:36

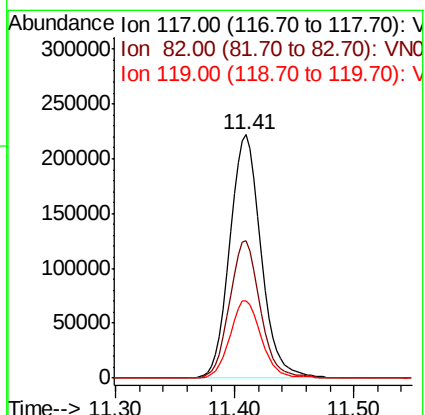
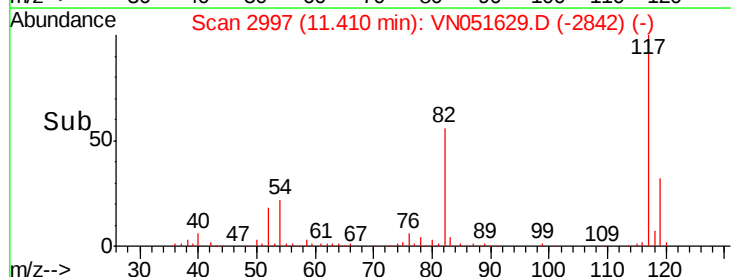
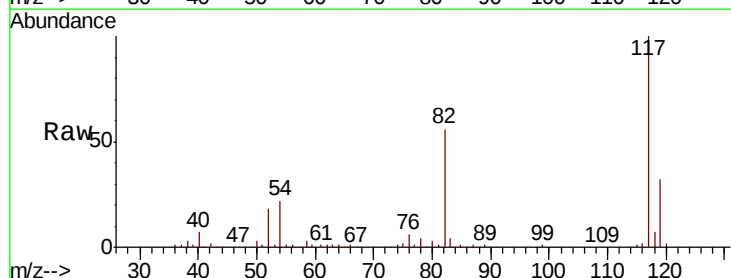
Tgt Ion: 117 Resp: 404305

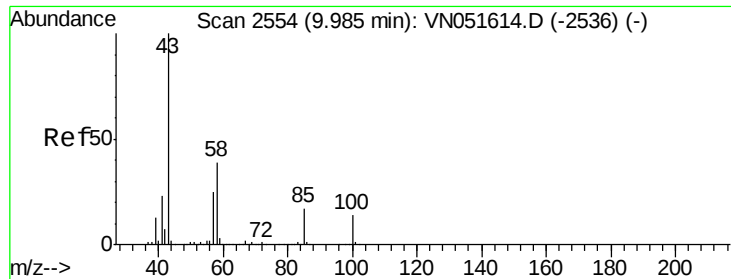
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 55.4  | 44.2  | 66.2  |
| 119 | 31.7  | 25.2  | 37.8  |

117 100

82 55.4 44.2 66.2

119 31.7 25.2 37.8





#58

4-Methyl-2-Pentanone

Concen: 0.220 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051629.D

Acq: 1 Oct 2018 11:36

Instrument :

MSVOA\_N

ClientSampleId :

TRIP-BLANK

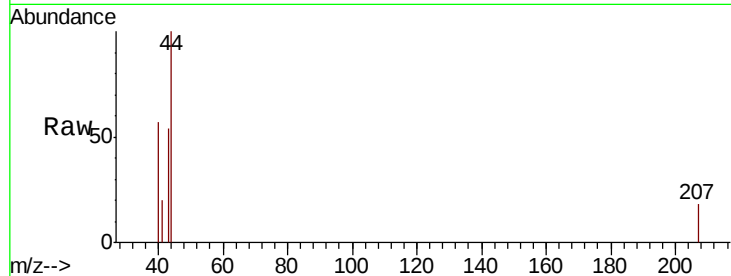
Tot Ion: 43 Resp: 1012

Ion Ratio Lower Upper

43 100

58 9.3 31.0 46.4#

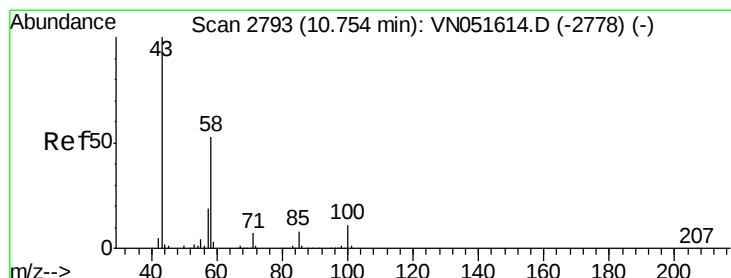
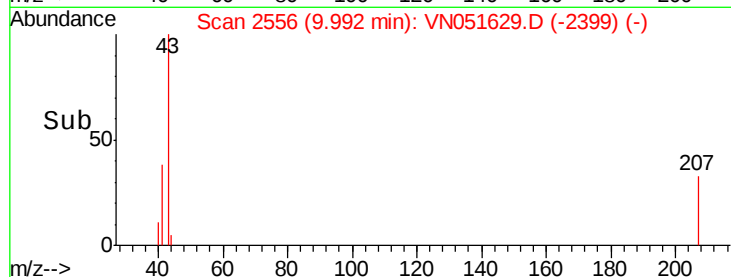
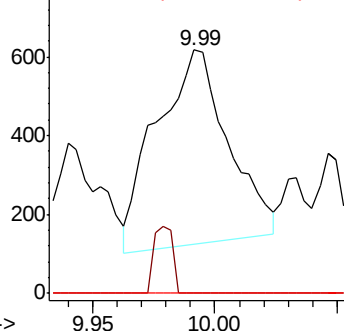
85 0.0 13.4 20.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 0.201 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VN051629.D

Acq: 1 Oct 2018 11:36

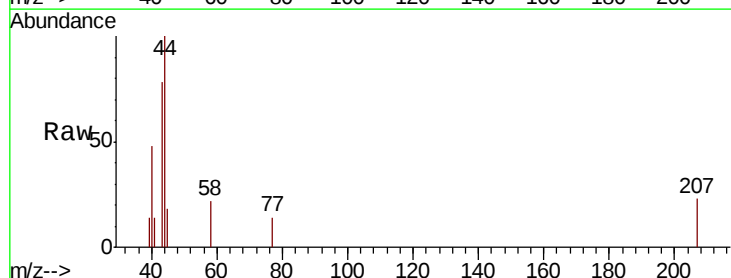
Tgt Ion: 43 Resp: 606

Ion Ratio Lower Upper

43 100

58 31.8 41.5 62.3#

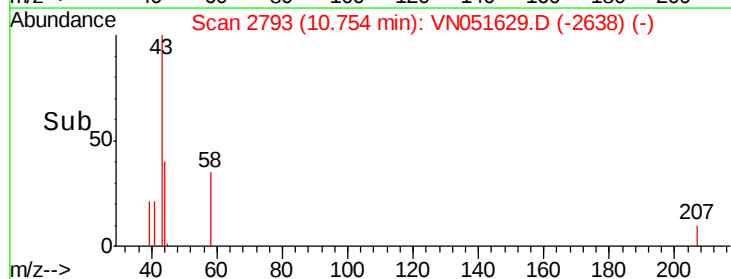
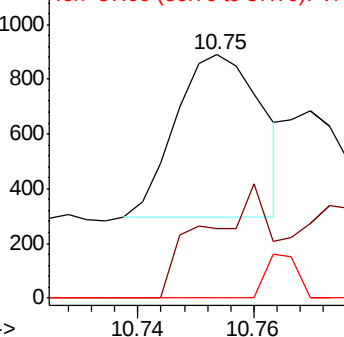
57 0.0 14.2 21.4#

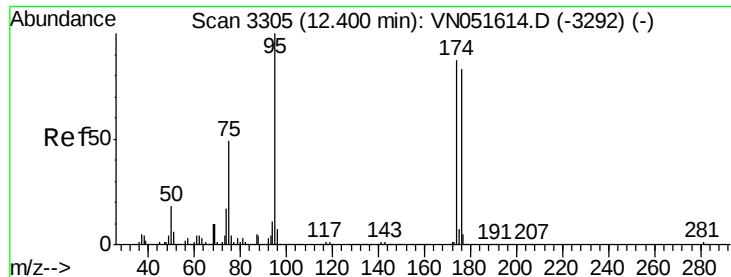


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#60

4-Bromofluorobenzene

Concen: 0.201 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051629.D

Acq: 1 Oct 2018 11:36

Instrument :

MSVOA\_N

ClientSampleId :

TRIP-BLANK

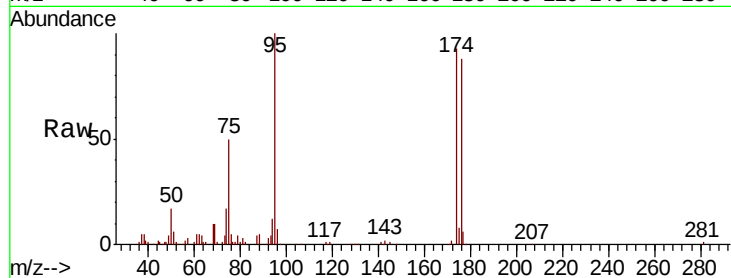
Tot Ion: 95 Resp: 127292

Ion Ratio Lower Upper

95 100

174 93.8 71.2 106.8

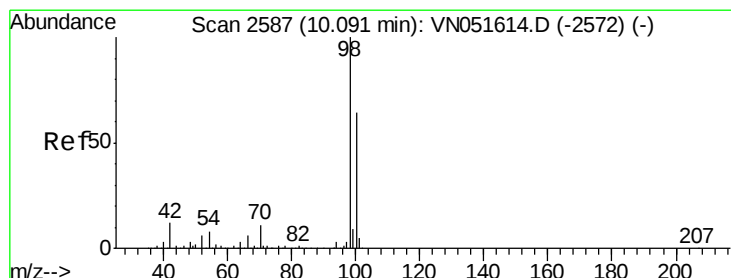
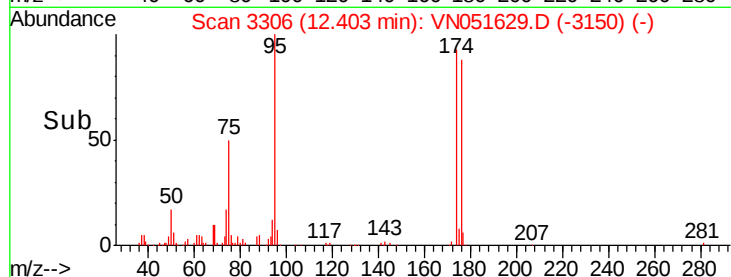
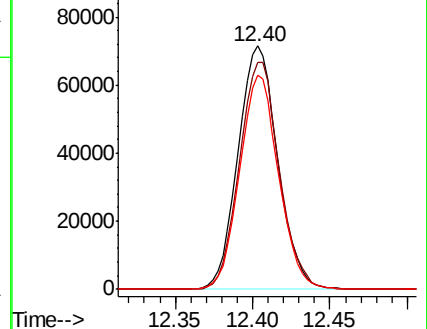
176 86.5 67.8 101.8



Abundance Ion 95.00 (94.70 to 95.70): VN051614.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN051614.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN051614.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051629.D

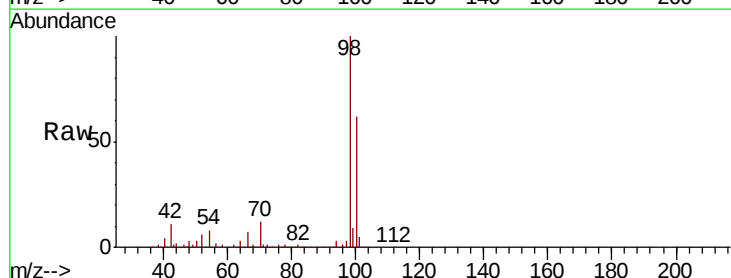
Acq: 1 Oct 2018 11:36

Tgt Ion: 98 Resp: 561160

Ion Ratio Lower Upper

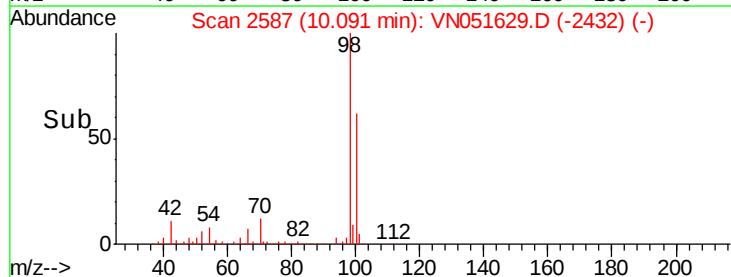
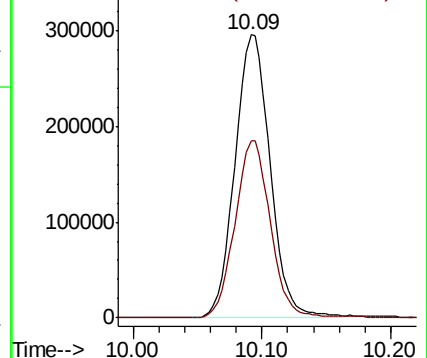
98 100

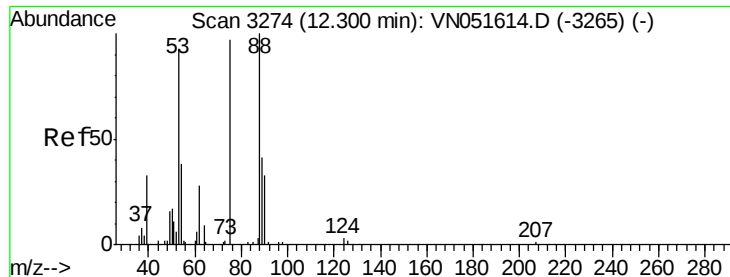
100 62.8 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN051614.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN051614.D (-2572) (-)

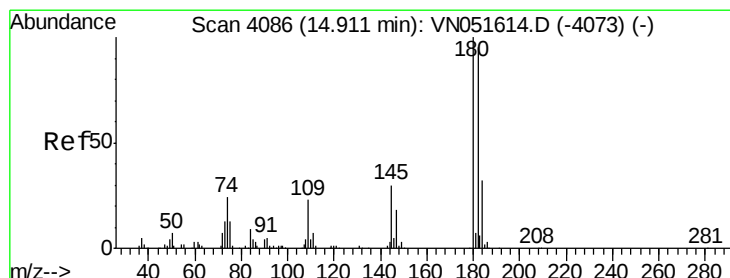
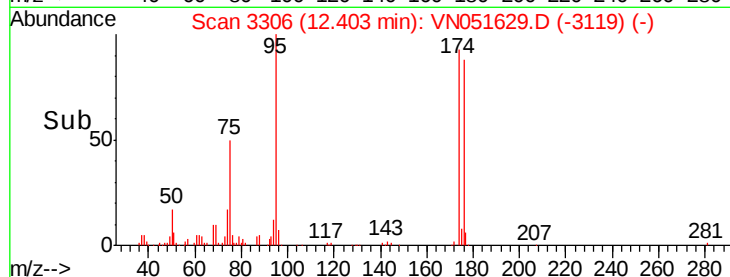
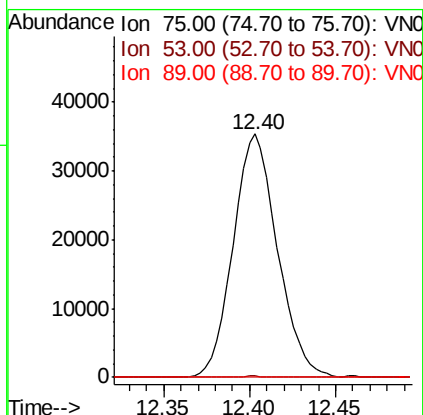
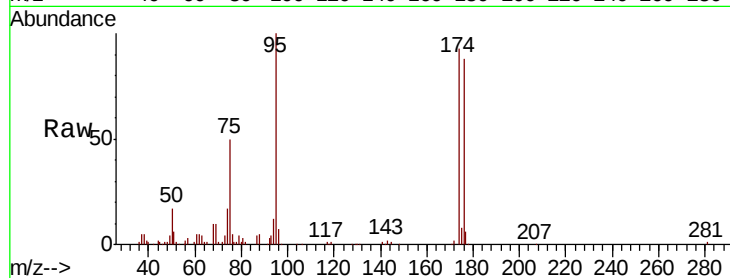




#77  
t-1,4-Dichloro-2-butene  
Concen: 38.699 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.10 min  
Lab File: VN051629.D  
Acq: 1 Oct 2018 11:36

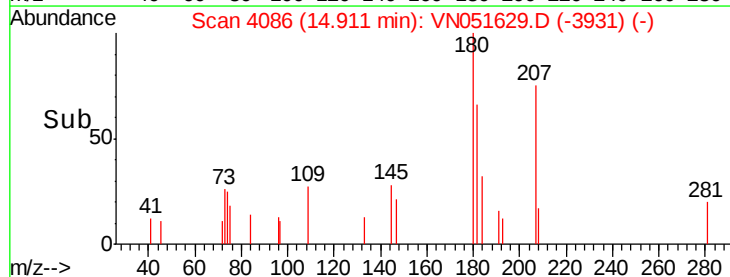
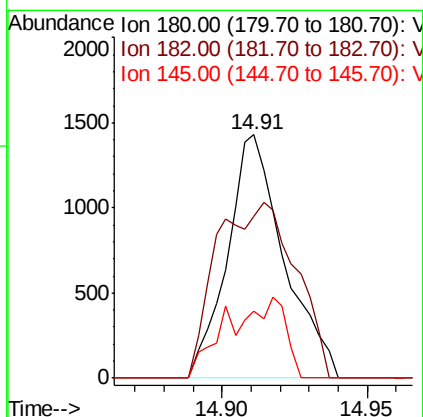
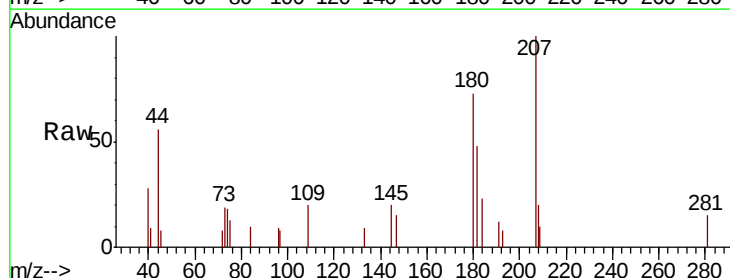
Instrument :  
MSVOA\_N  
ClientSampleId :  
TRIP-BLANK

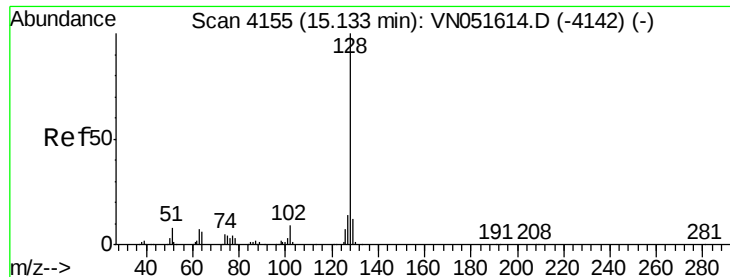
Tot Ion: 75 Resp: 63127  
Ion Ratio Lower Upper  
75 100  
53 0.4 48.1 144.4#  
89 0.0 22.4 67.3#



#89  
1,2,4-Trichlorobenzene  
Concen: 0.391 ug/l  
RT: 14.91 min Scan# 4086  
Delta R.T. -0.00 min  
Lab File: VN051629.D  
Acq: 1 Oct 2018 11:36

Tgt Ion: 180 Resp: 1933  
Ion Ratio Lower Upper  
180 100  
182 0.0 75.2 112.8#  
145 7.8 22.9 34.3#

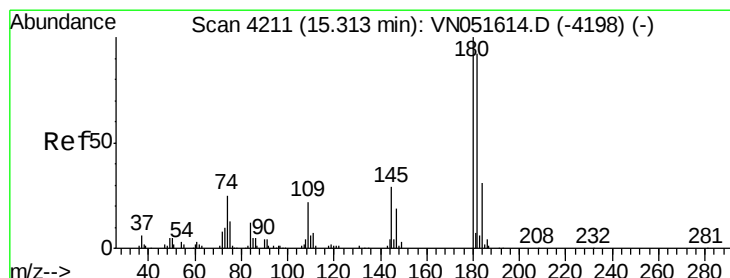
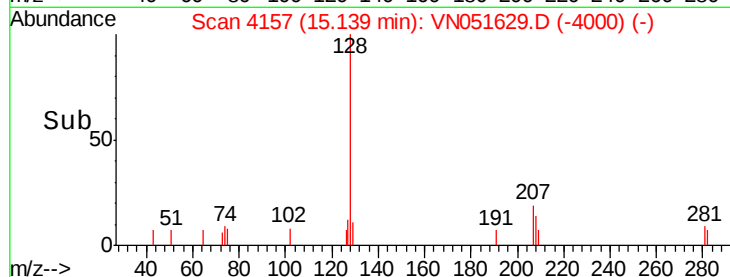
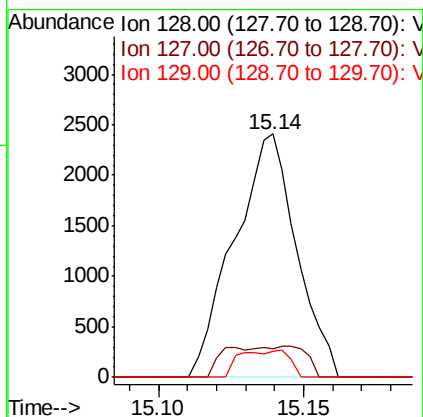
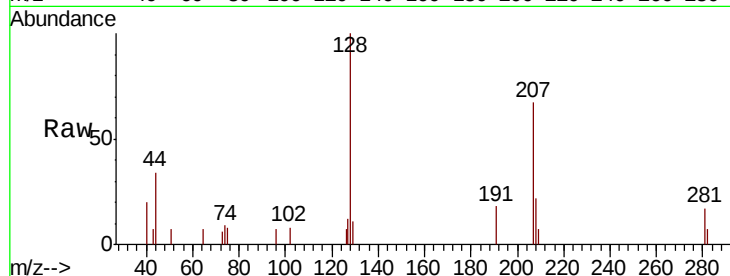




#91  
Naphthalene  
Concen: 8.520 ug/l  
RT: 15.14 min Scan# 4157  
Delta R.T. 0.01 min  
Lab File: VN051629.D  
Acq: 1 Oct 2018 11:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
TRIP-BLANK

Tot Ion:128 Resp: 3587  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.8 16.2#  
129 3.9 9.1 13.7#



#92  
1,2,3-Trichlorobenzene  
Concen: 0.360 ug/l  
RT: 15.32 min Scan# 4212  
Delta R.T. 0.00 min  
Lab File: VN051629.D  
Acq: 1 Oct 2018 11:36

Tgt Ion:180 Resp: 1791  
Ion Ratio Lower Upper  
180 100  
182 114.3 0.0 191.8  
145 44.3 0.0 60.4

