

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091018\  
 Data File : VN051101.D  
 Acq On : 11 Sep 2018 1:36  
 Operator : MD\SY  
 Sample : J4777-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PL-05-090718-C

Quant Time: Sep 11 04:38:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 623386   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 971749   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 838683   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 282096   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 373380   | 53.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.64% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 367322   | 50.31 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.62% |      |
| 50) Toluene-d8            | 10.09  | 98  | 1327899  | 47.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.84%  |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 366630   | 40.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 80.00%  |      |

## Target Compounds

|                                |       |     |         |           |        | Qvalue |
|--------------------------------|-------|-----|---------|-----------|--------|--------|
| 3) Chloromethane               | 2.06  | 50  | 2607    | Below Cal |        | 93     |
| 5) Bromomethane                | 2.57  | 94  | 2599    | Below Cal |        | 95     |
| 10) Methyl Iodide              | 3.97  | 142 | 973     | 5.76      | ug/l # | 53     |
| 13) Acrolein                   | 3.62  | 56  | 71      | 24.38     | ug/l # | 13     |
| 14) Allyl chloride             | 4.55  | 41  | 195413  | 19.29     | ug/l # | 27     |
| 16) Acetone                    | 3.83  | 43  | 14472   | 2.66      | ug/l   | 96     |
| 17) Carbon Disulfide           | 4.06  | 76  | 2326    | 0.23      | ug/l # | 76     |
| 18) Methyl Acetate             | 4.33  | 43  | 9314    | 1.68      | ug/l # | 67     |
| 20) Methylene Chloride         | 4.55  | 84  | 5691963 | 742.77    | ug/l   | 100    |
| 25) 2-Butanone                 | 6.84  | 43  | 1184    | 0.43      | ug/l # | 46     |
| 28) Bromochloromethane         | 7.20  | 49  | 4915    | 0.87      | ug/l # | 93     |
| 30) Chloroform                 | 7.38  | 83  | 14012   | 1.10      | ug/l   | 91     |
| 31) Cyclohexane                | 7.66  | 56  | 10422   | 0.69      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 38756   | 3.63      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 52812   | 5.03      | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.17  | 43  | 219938  | 20.17     | ug/l # | 85     |
| 47) Bromodichloromethane       | 9.40  | 83  | 4248    | 0.41      | ug/l   | 96     |
| 48) Methyl methacrylate        | 9.18  | 41  | 6430    | 1.21      | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43  | 1353    | 0.22      | ug/l   | 94     |
| 56) Ethyl methacrylate         | 10.28 | 69  | 70      | 2.46      | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.77 | 43  | 12103   | 2.96      | ug/l # | 57     |
| 67) Ethyl Benzene              | 11.51 | 91  | 11372   | 0.33      | ug/l   | 99     |
| 68) m/p-Xylenes                | 11.62 | 106 | 13567   | 1.03      | ug/l   | 100    |
| 69) o-Xylene                   | 11.95 | 106 | 4446    | 0.35      | ug/l   | 87     |
| 71) Bromoform                  | 12.40 | 173 | 1276    | 0.24      | ug/l # | 1      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.40 | 83  | 29      | Below Cal | #      | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 166743  | 37.76     | ug/l # | 100    |
| 78) n-propylbenzene            | 12.59 | 91  | 7598    | 0.29      | ug/l   | 97     |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105 | 11028   | 0.58      | ug/l   | 94     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 166743  | 112.26    | ug/l # | 15     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105 | 32320   | 1.72      | ug/l   | 98     |
| 85) sec-Butylbenzene           | 13.04 | 105 | 32320   | 1.49      | ug/l # | 55     |
| 90) Hexachloroethane           | 13.89 | 117 | 645     | Below Cal | #      | 2      |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180 | 73      | 4.00      | ug/l # | 1      |

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Sample : J4777-06  
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ALS Vial : 41 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
PL-05-090718-C

Quant Time: Sep 11 04:38:04 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:27:09 2018  
Response via : Initial Calibration

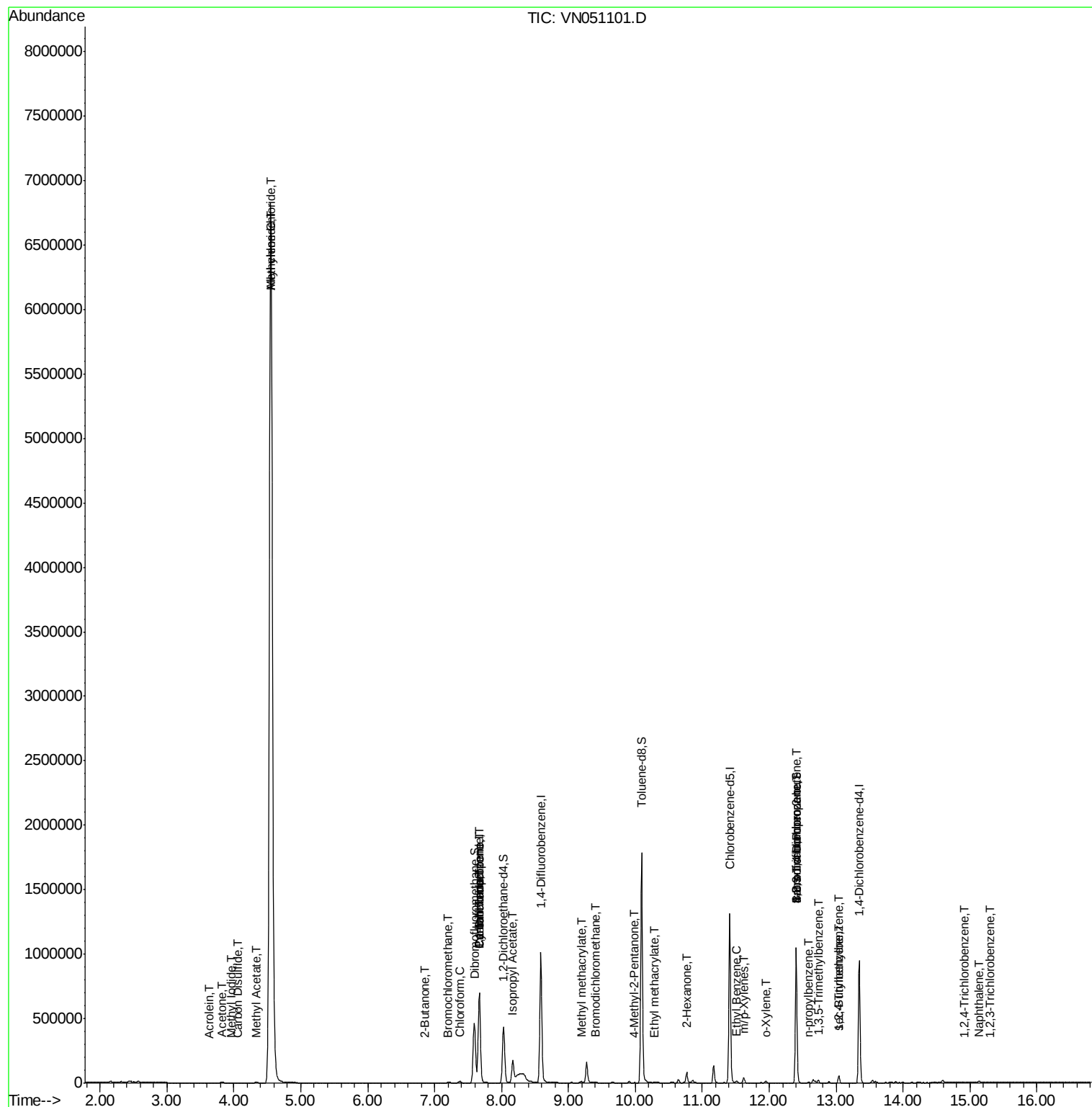
| Internal Standards         | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|----------------------------|-------|------|----------|------|--------|----------|
| 95) Naphthalene            | 15.13 | 128  | 8966     | 6.10 | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 95       | 2.97 | ug/l # | 36       |

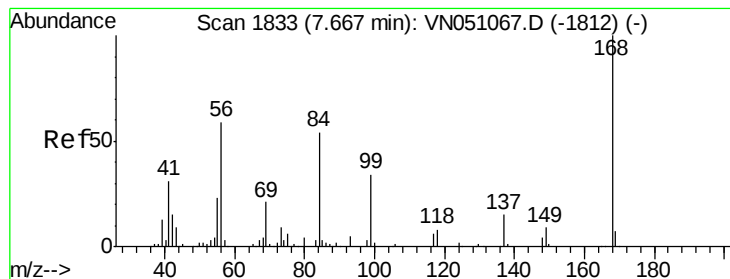
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

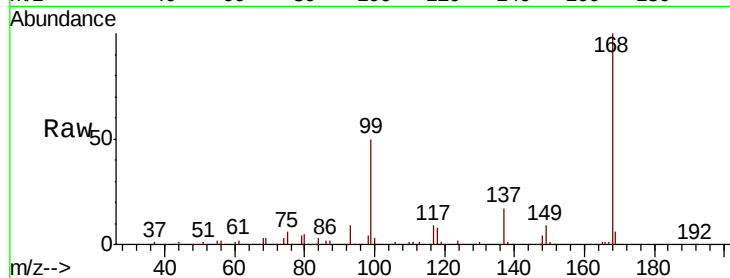
PL-05-090718-C

Tot Ion:168 Resp: 623386

Ion Ratio Lower Upper

168 100

99 49.9 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

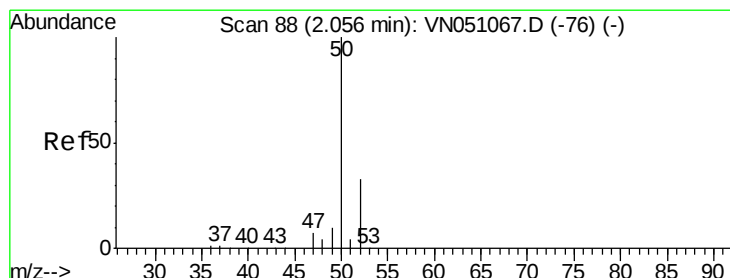
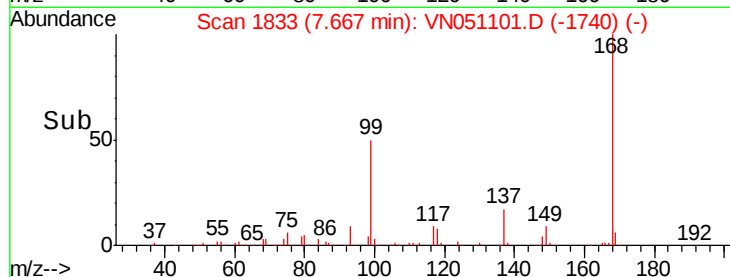
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051101.D

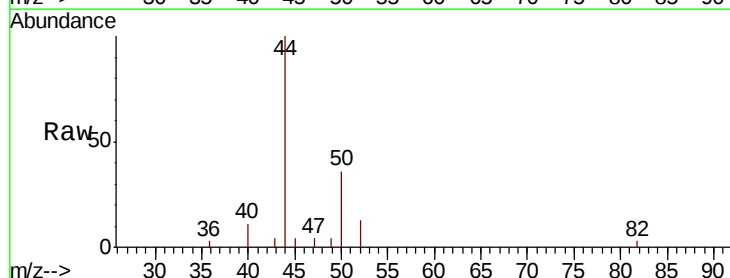
Acq: 11 Sep 2018 1:36

Tgt Ion: 50 Resp: 2607

Ion Ratio Lower Upper

50 100

52 36.4 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

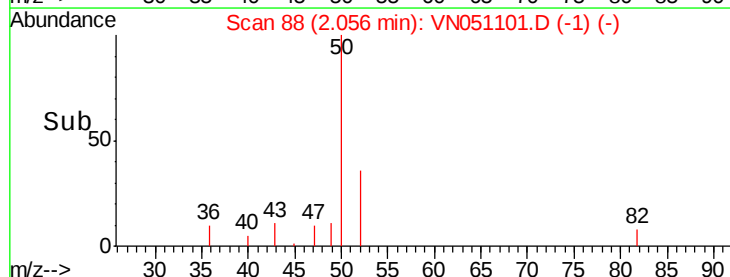
1500

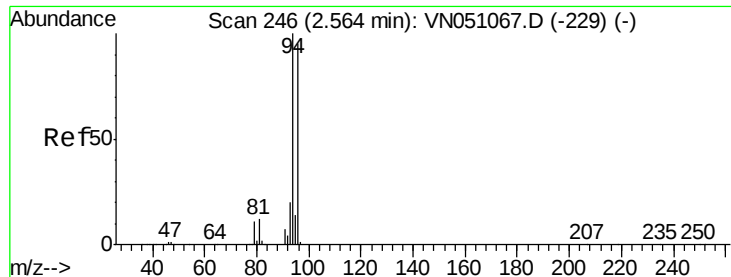
1000

500

0

Time--> 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

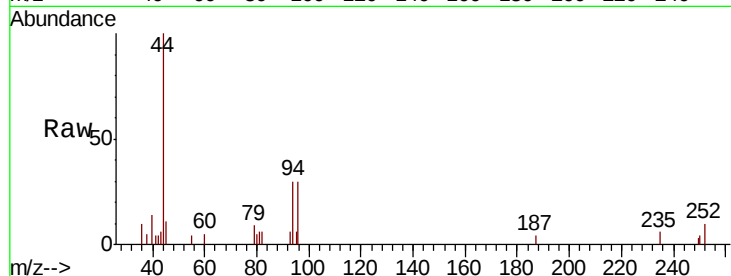
PL-05-090718-C

Tot Ion: 94 Resp: 2599

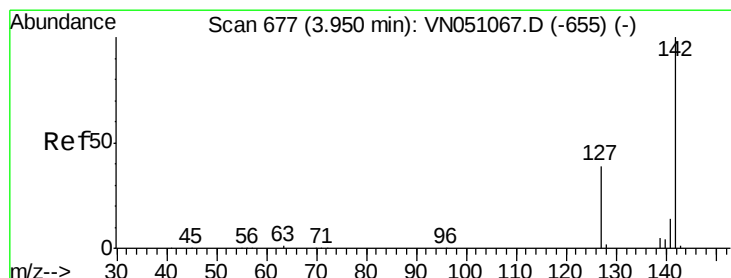
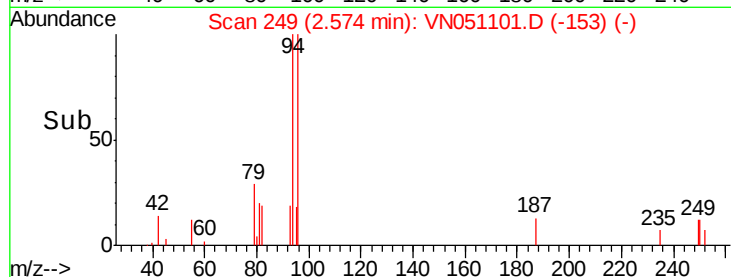
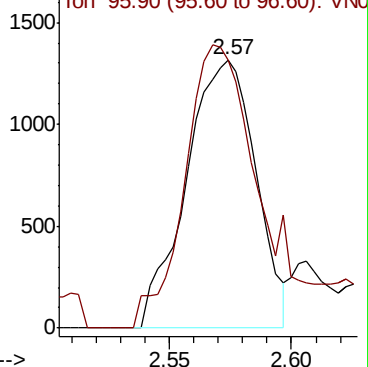
Ion Ratio Lower Upper

94 100

96 99.9 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051101.D (-153) (-)



#10

Methyl Iodide

Concen: 5.76 ug/l

RT: 3.97 min Scan# 682

Delta R.T. 0.02 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

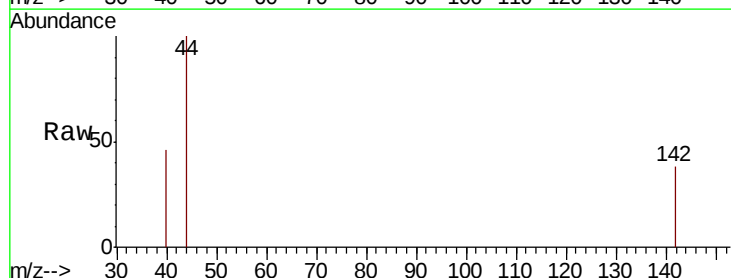
Tgt Ion: 142 Resp: 973

Ion Ratio Lower Upper

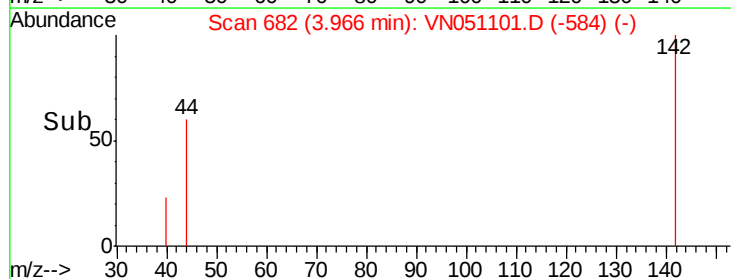
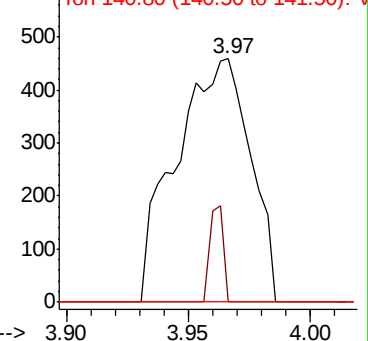
142 100

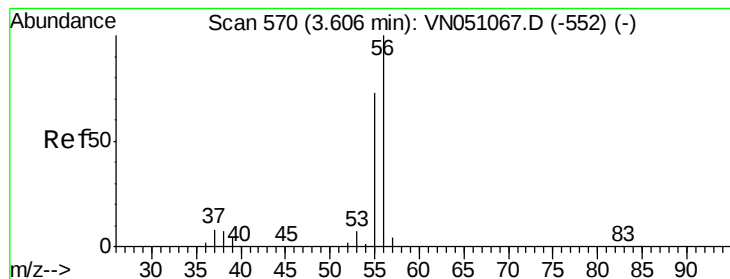
127 7.0 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VN051101.D (-584) (-)





#13

Acrolein

Concen: 24.38 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

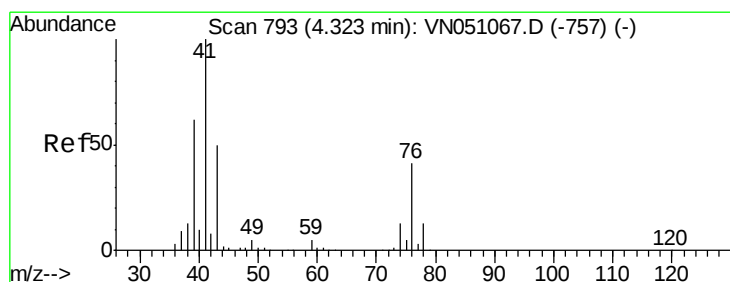
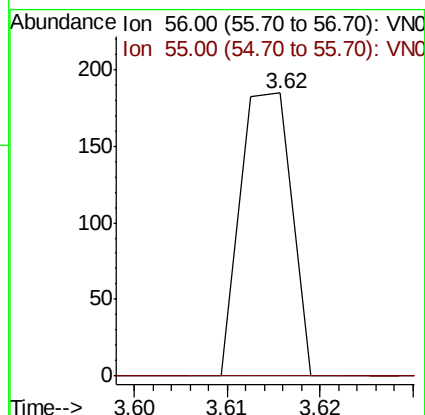
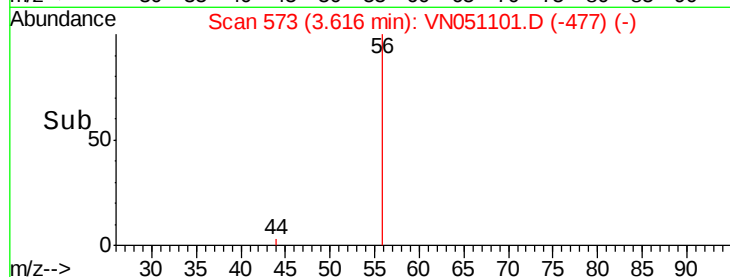
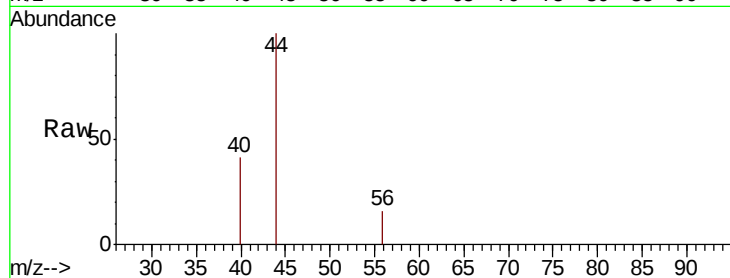
PL-05-090718-C

Tot Ion: 56 Resp: 71

Ion Ratio Lower Upper

56 100

55 0.0 58.0 87.0#



#14

Allyl chloride

Concen: 19.29 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.23 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

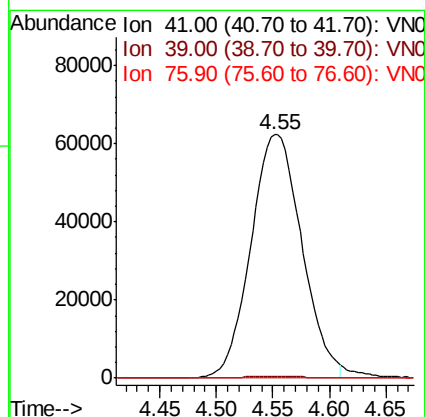
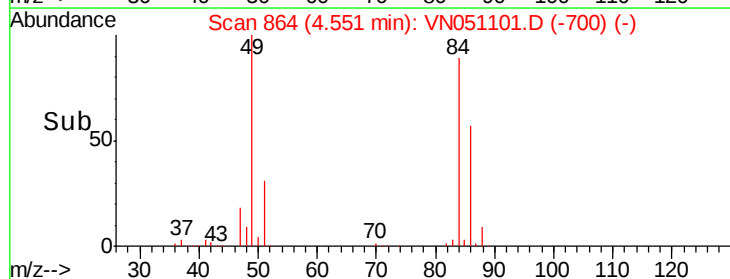
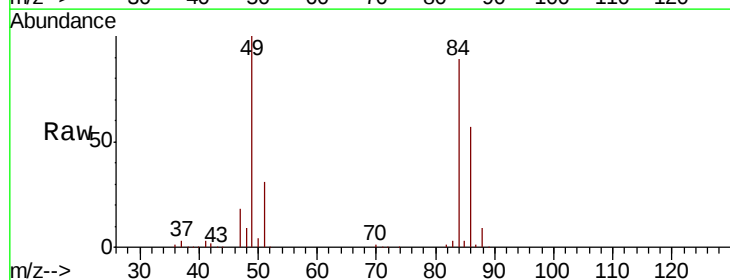
Tgt Ion: 41 Resp: 195413

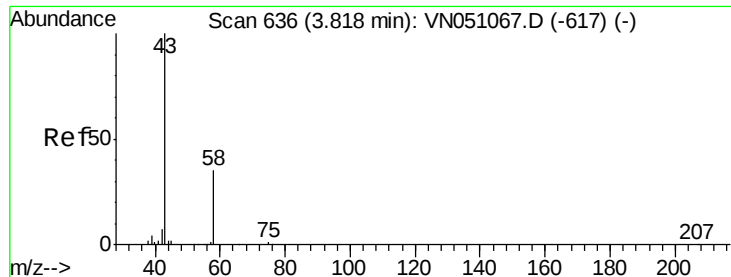
Ion Ratio Lower Upper

41 100

39 0.6 48.8 73.2#

76 0.0 30.6 45.8#





#16

Acetone

Concen: 2.66 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

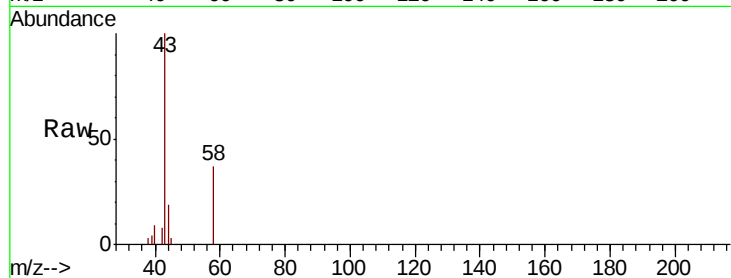
PL-05-090718-C

Tot Ion: 43 Resp: 14472

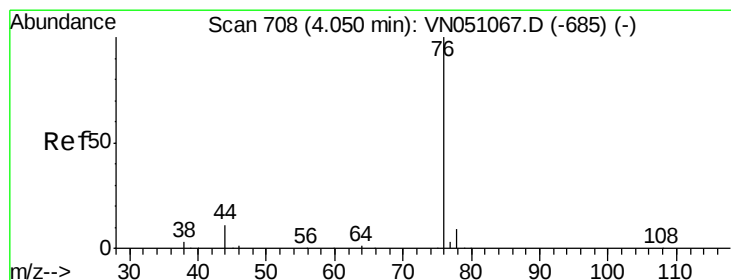
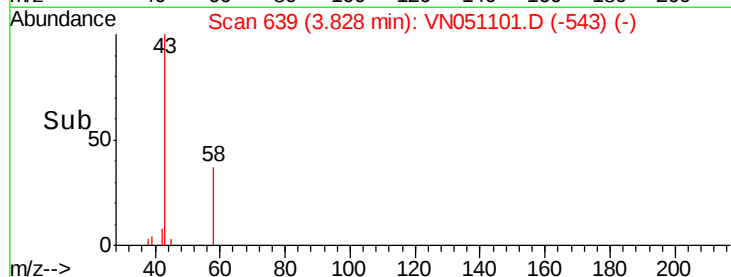
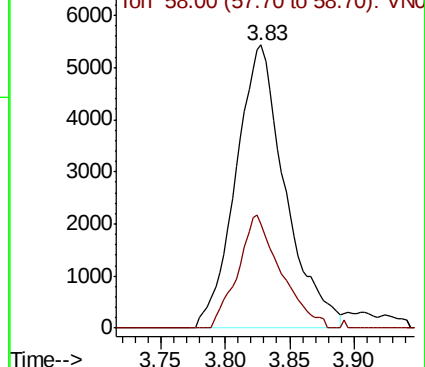
Ion Ratio Lower Upper

43 100

58 36.7 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN051067.D (-617) (-)



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.01 min

Lab File: VN051101.D

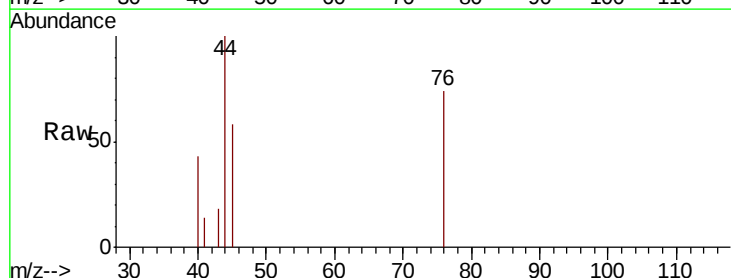
Acq: 11 Sep 2018 1:36

Tgt Ion: 76 Resp: 2326

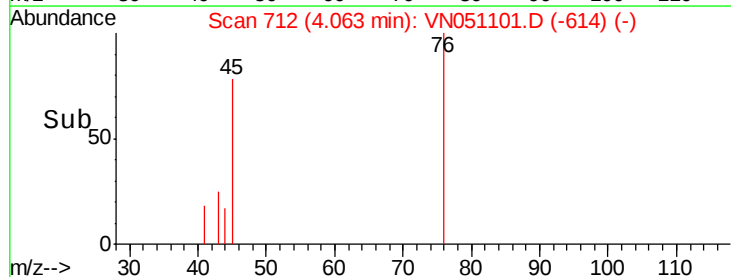
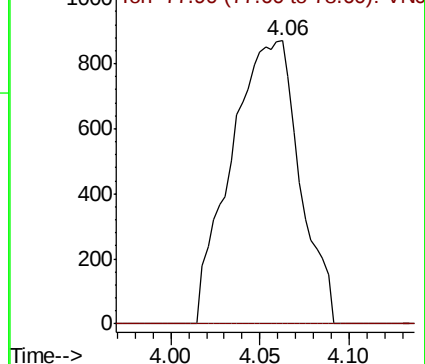
Ion Ratio Lower Upper

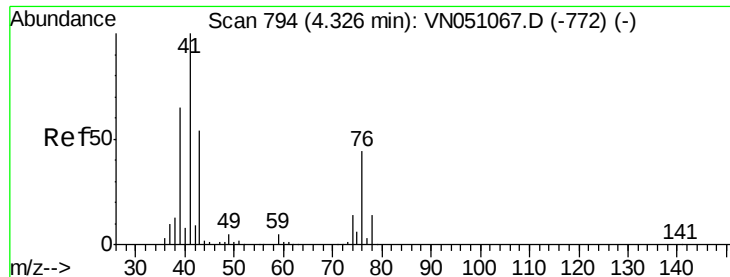
76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN051067.D (-685) (-)

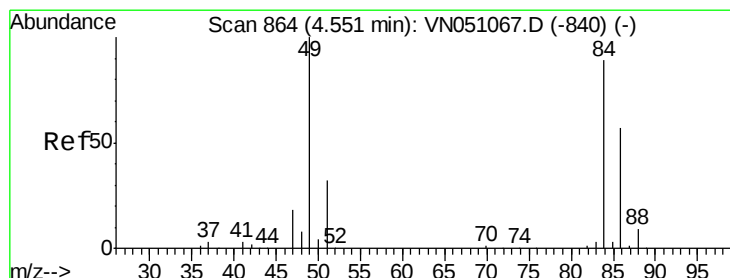
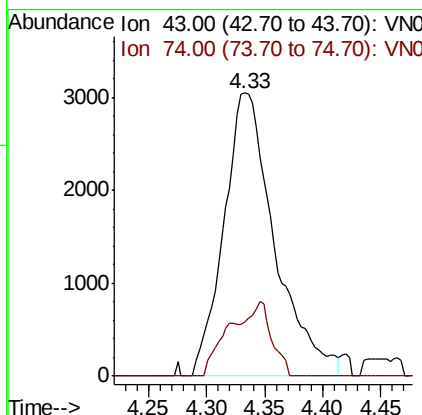
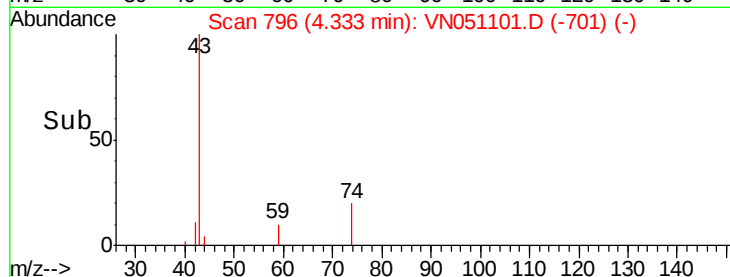
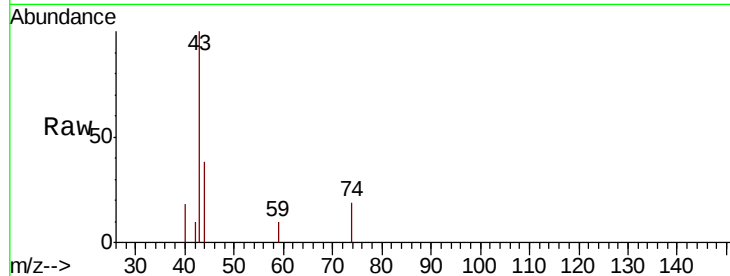




#18  
Methyl Acetate  
Concen: 1.68 ug/l  
RT: 4.33 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

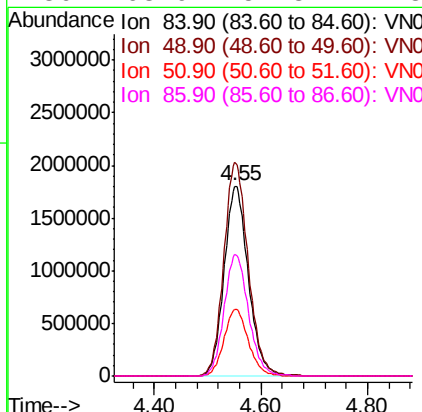
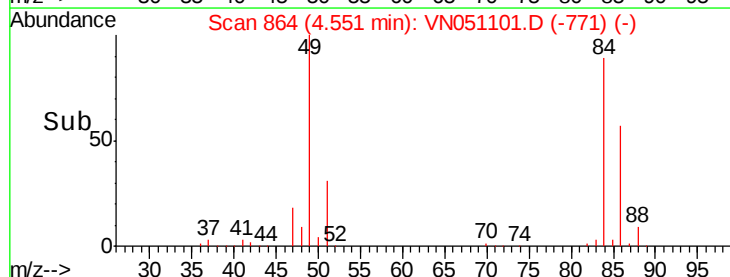
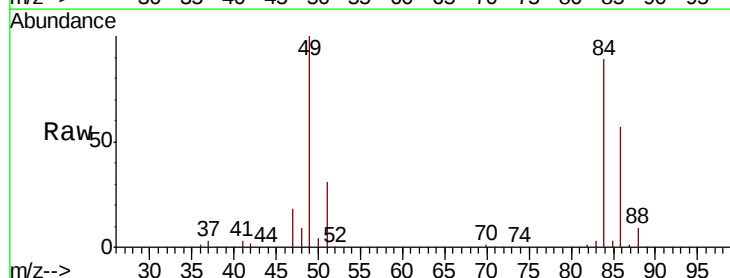
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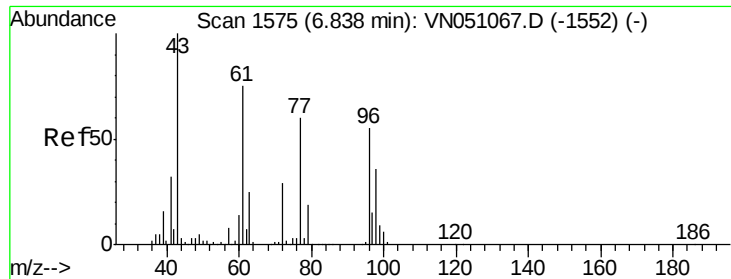
Tot Ion: 43 Resp: 9314  
Ion Ratio Lower Upper  
43 100  
74 8.9 20.7 31.1#



#20  
Methylene Chloride  
Concen: 742.77 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

Tgt Ion: 84 Resp: 5691963  
Ion Ratio Lower Upper  
84 100  
49 112.7 90.2 135.2  
51 35.2 28.4 42.6  
86 63.9 51.8 77.8

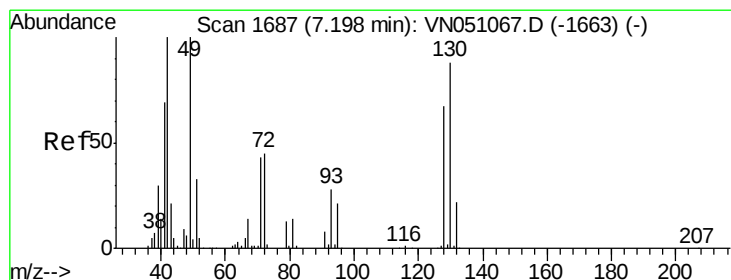
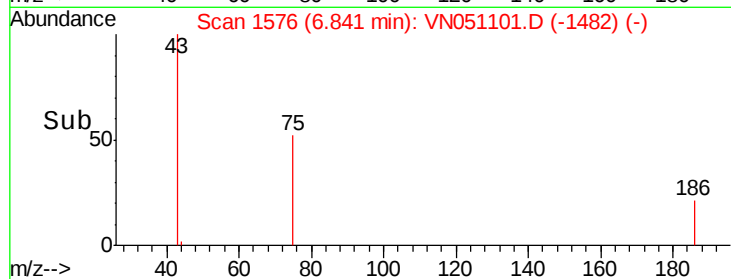
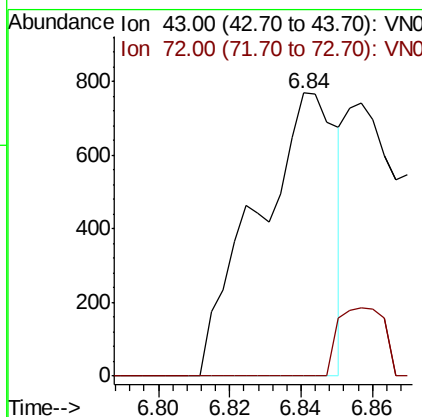
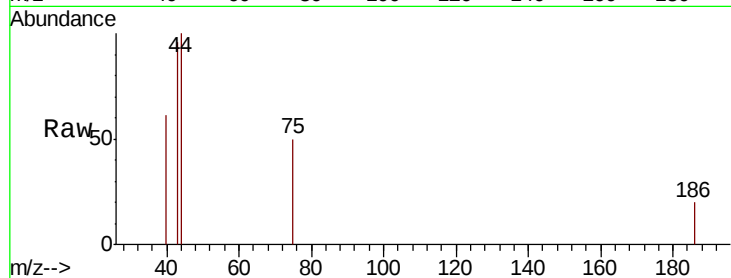




#25  
2-Butanone  
Concen: 0.43 ug/l  
RT: 6.84 min Scan# 1576  
Delta R.T. 0.00 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

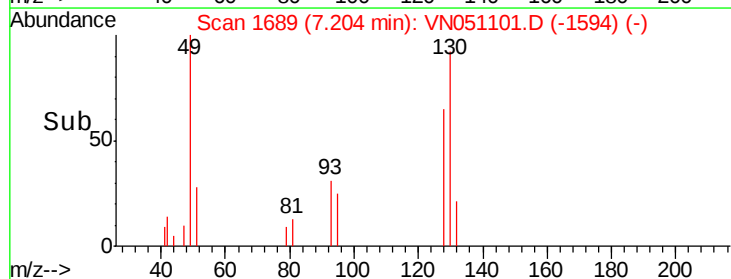
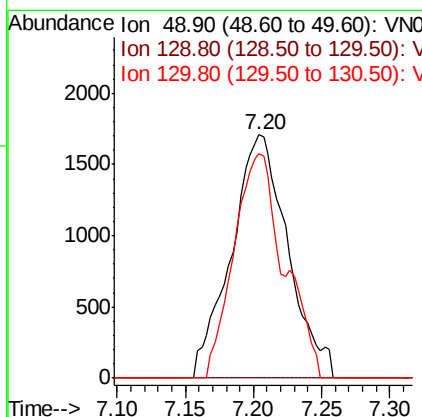
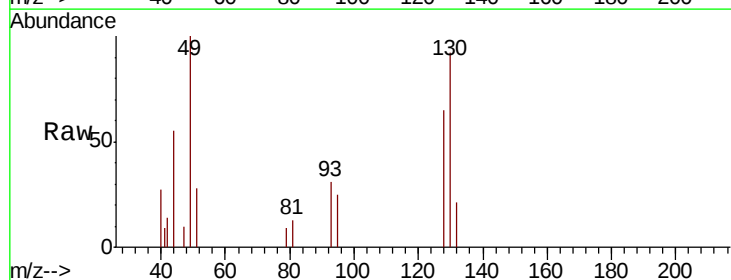
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-05-090718-C

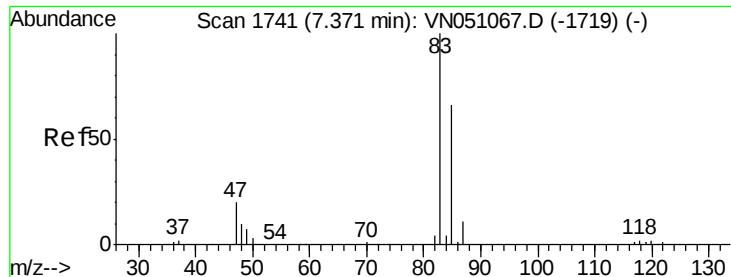
Tot Ion: 43 Resp: 1184  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.0 34.6#



#28  
Bromochloromethane  
Concen: 0.87 ug/l  
RT: 7.20 min Scan# 1689  
Delta R.T. 0.01 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

Tgt Ion: 49 Resp: 4915  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.4  
130 82.2 70.7 106.1

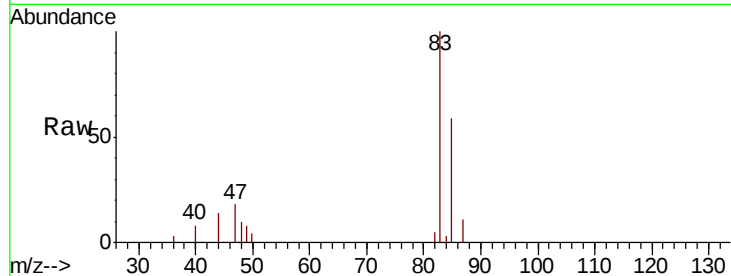




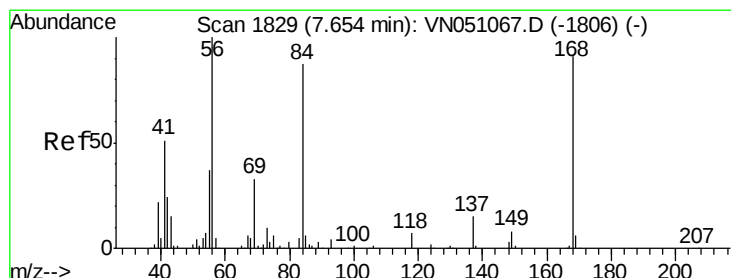
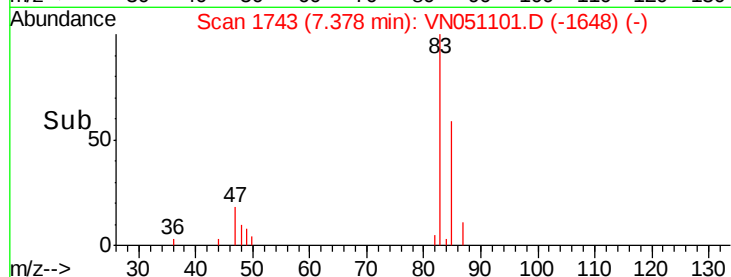
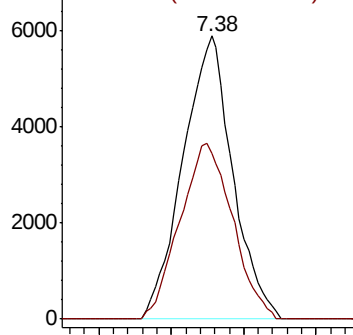
#30  
Chloroform  
Concen: 1.10 ug/l  
RT: 7.38 min Scan# 1743  
Delta R.T. 0.01 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-05-090718-C

Tot Ion: 83 Resp: 14012  
Ion Ratio Lower Upper  
83 100  
85 58.6 52.6 79.0

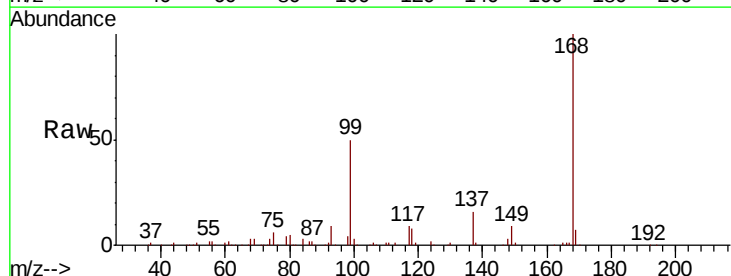


Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 84.90 (84.60 to 85.60): VNO

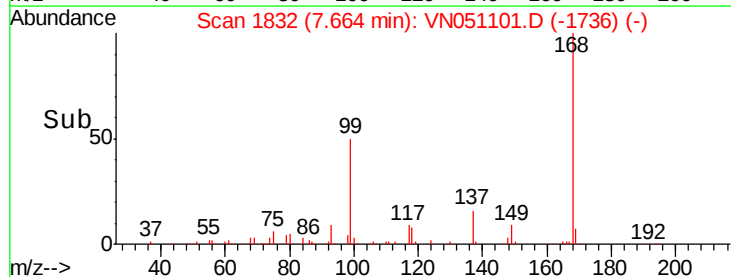
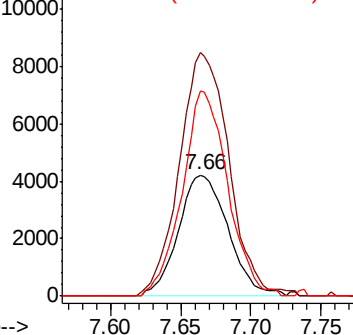


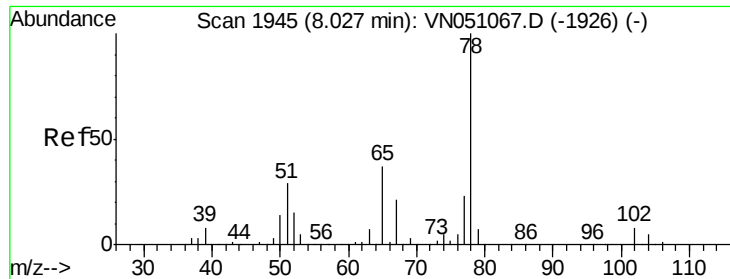
#31  
Cyclohexane  
Concen: 0.69 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

Tgt Ion: 56 Resp: 10422  
Ion Ratio Lower Upper  
56 100  
69 201.0 26.3 39.5#  
84 169.7 69.4 104.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 84.00 (83.70 to 84.70): VNO

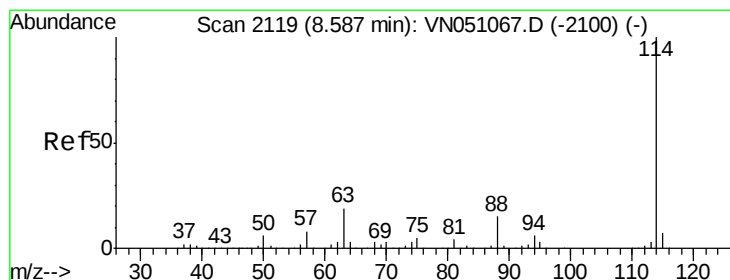
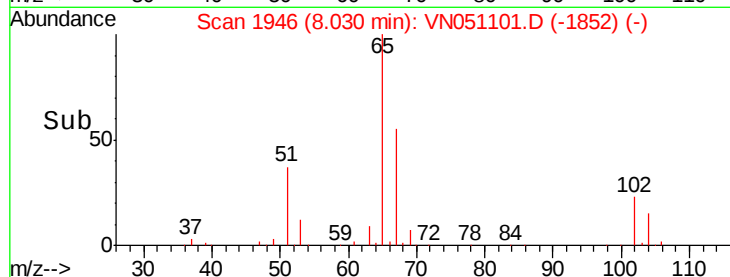
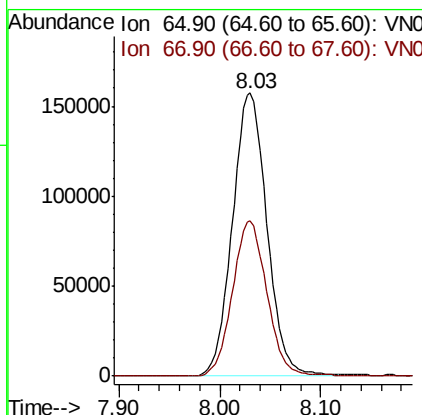
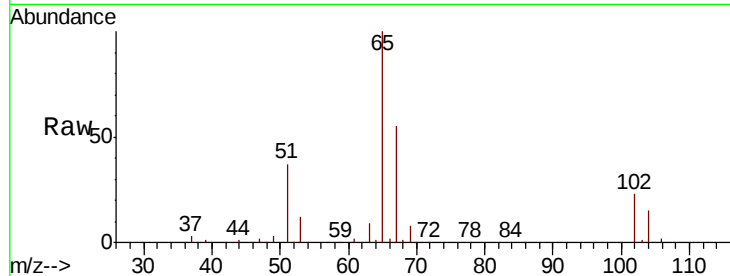




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.82 ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

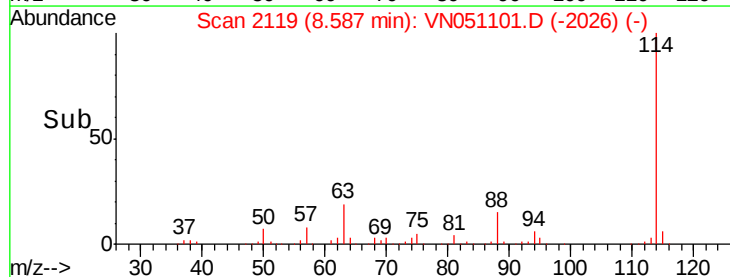
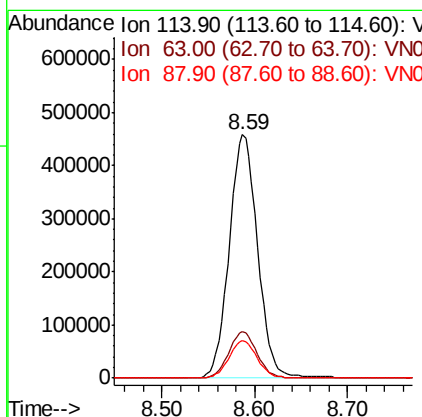
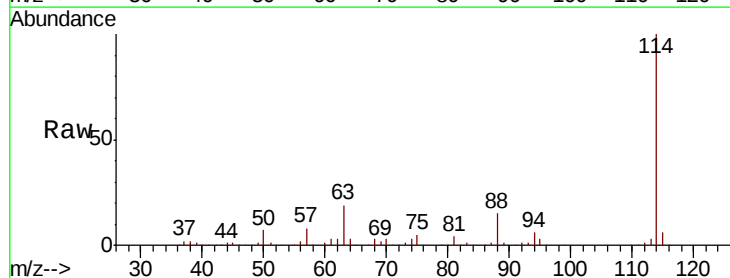
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PL-05-090718-C

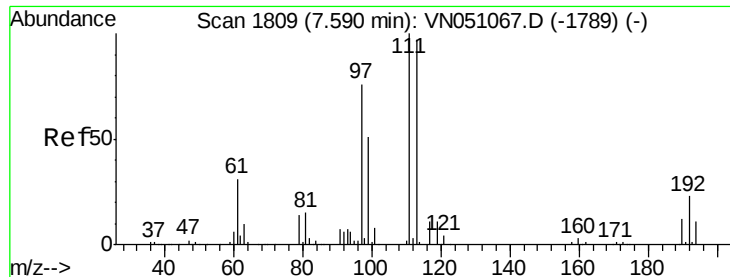
Tot Ion: 65 Resp: 373380  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

Tgt Ion: 114 Resp: 971749  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 37.8  
 88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.31 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

PL-05-090718-C

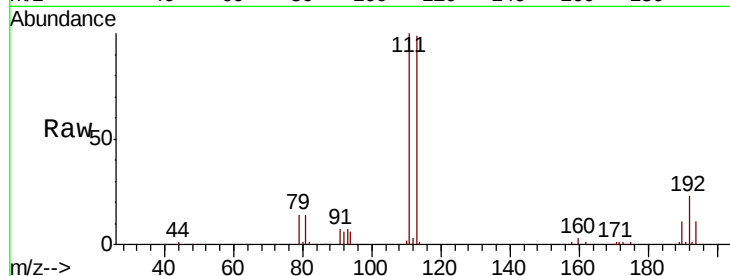
Tot Ion:113 Resp: 367322

Ion Ratio Lower Upper

113 100

111 101.8 83.0 124.6

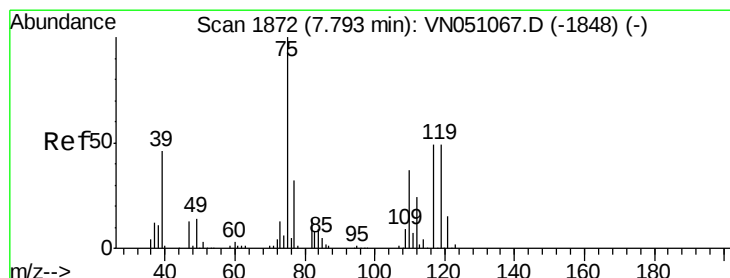
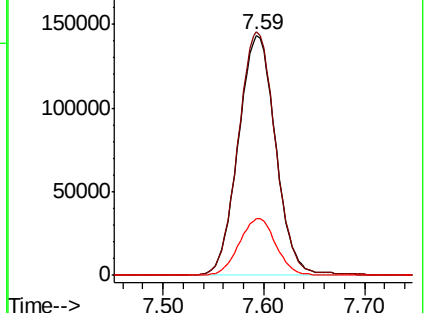
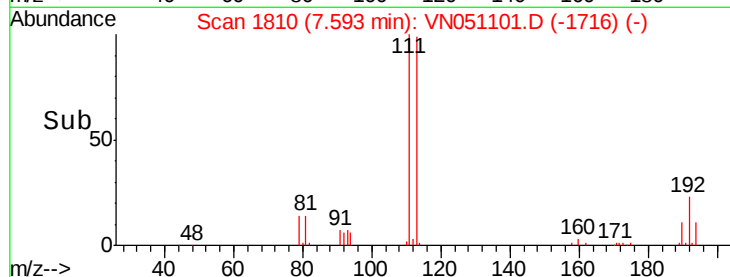
192 23.6 18.7 28.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.63 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

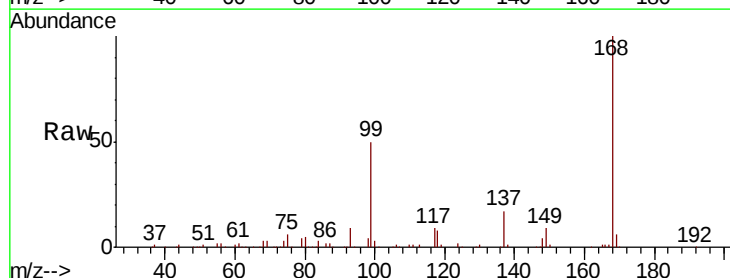
Tgt Ion: 75 Resp: 38756

Ion Ratio Lower Upper

75 100

110 9.3 18.6 55.8#

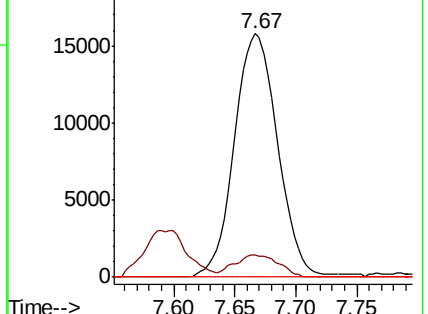
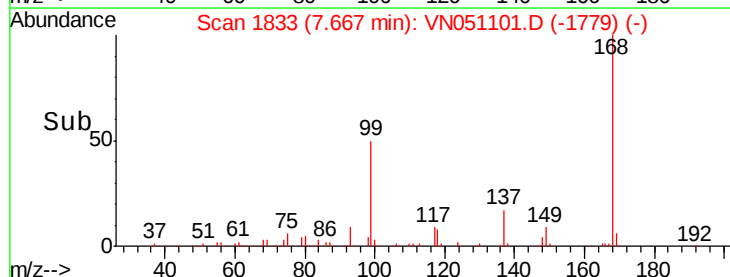
77 0.0 25.2 37.8#

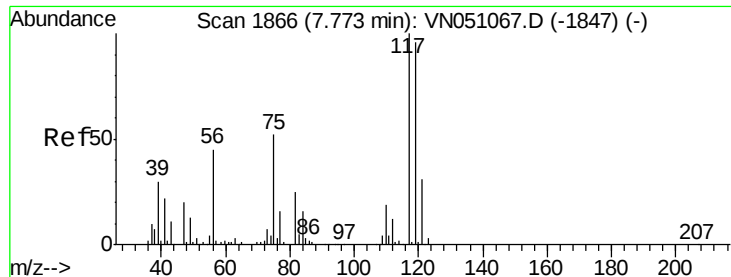


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

PL-05-090718-C

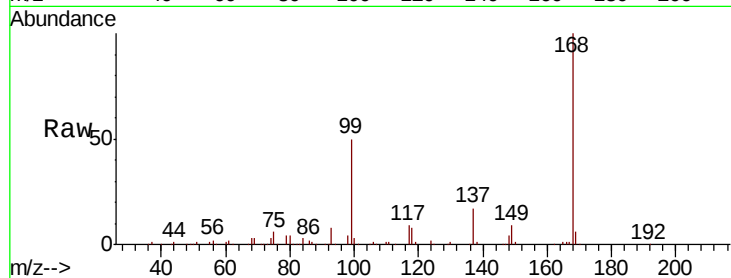
Tot Ion:117 Resp: 52812

Ion Ratio Lower Upper

117 100

119 6.3 76.8 115.2#

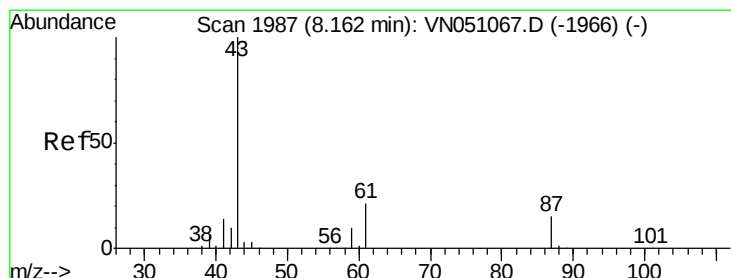
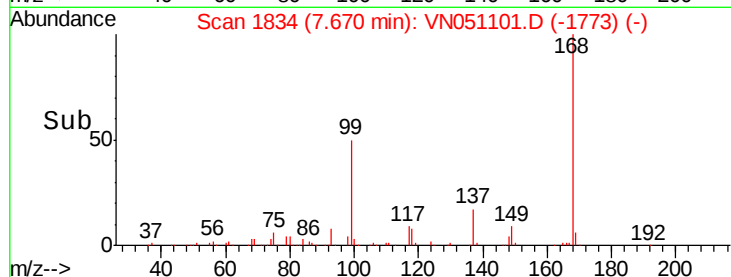
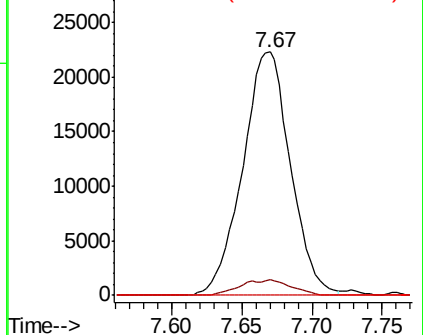
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 20.17 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

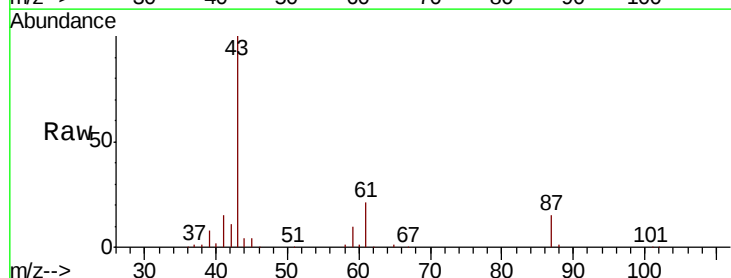
Tgt Ion: 43 Resp: 219938

Ion Ratio Lower Upper

43 100

61 20.1 25.0 37.6#

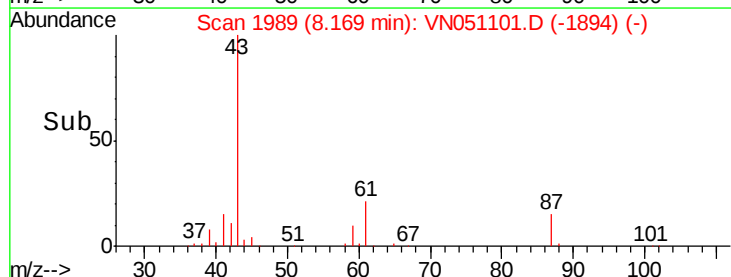
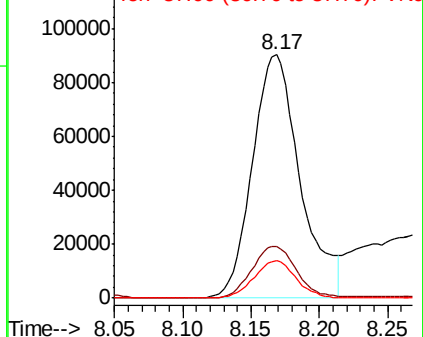
87 13.6 11.8 17.8

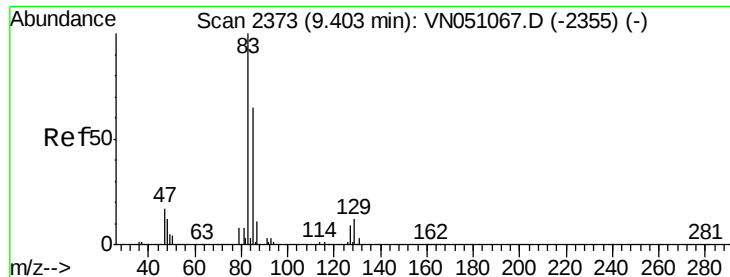


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.41 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

PL-05-090718-C

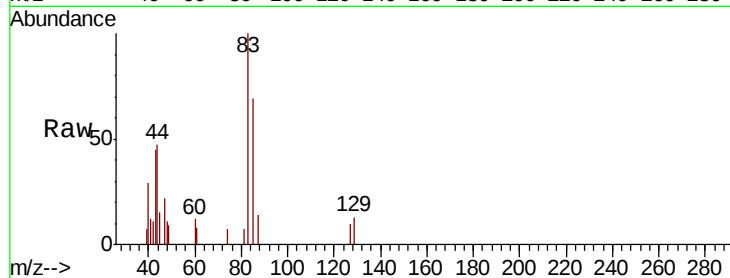
Tot Ion: 83 Resp: 4248

Ion Ratio Lower Upper

83 100

85 68.8 52.3 78.5

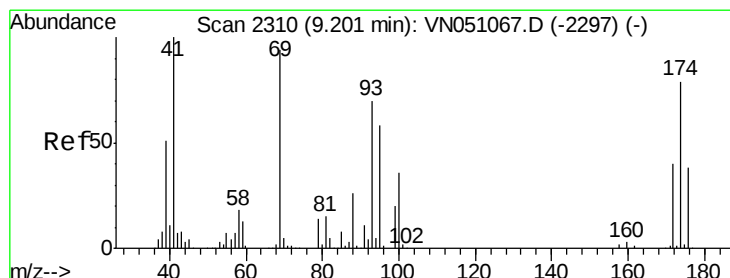
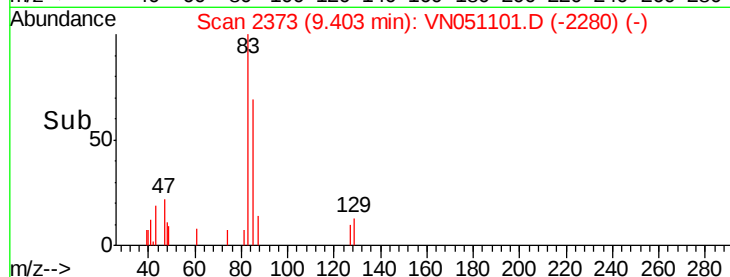
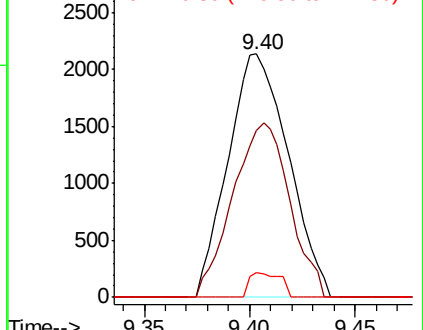
127 10.4 7.5 11.3



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC

Ion 126.80 (126.50 to 127.50): VNC



#48

Methyl methacrylate

Concen: 1.21 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

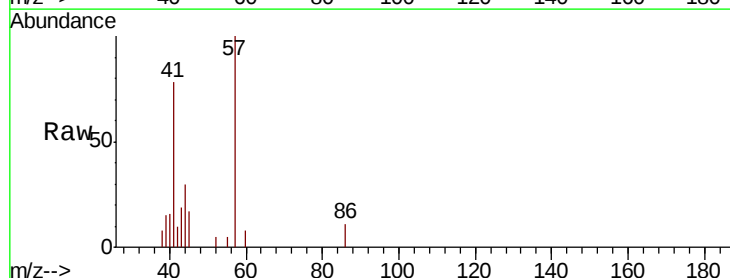
Tgt Ion: 41 Resp: 6430

Ion Ratio Lower Upper

41 100

69 0.0 77.7 116.5#

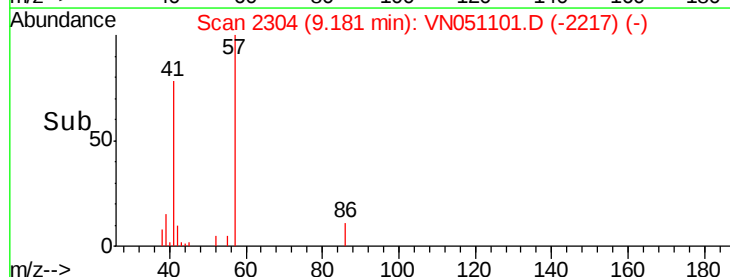
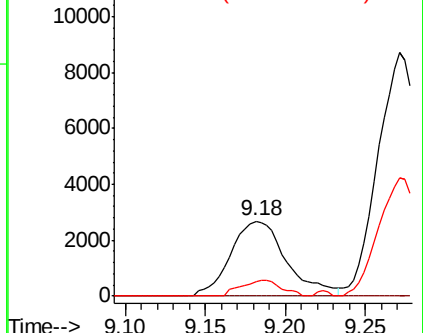
39 15.1 41.6 62.4#

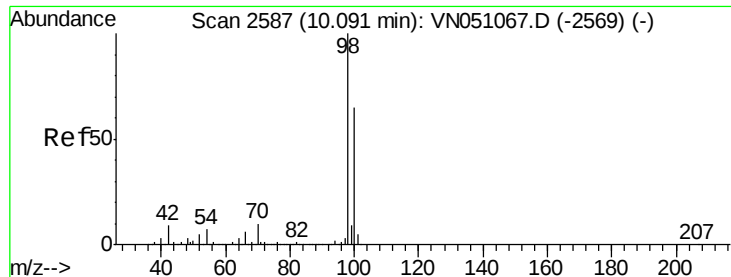


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 47.92 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

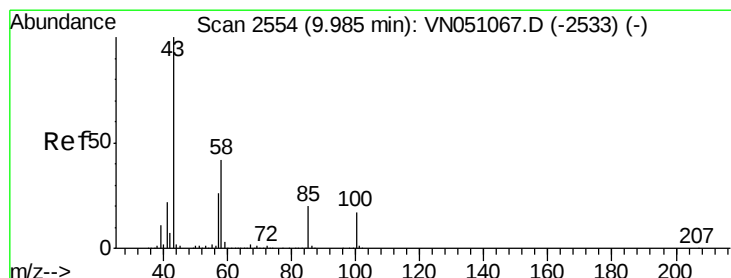
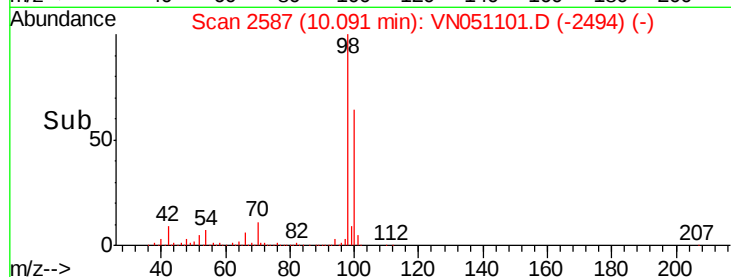
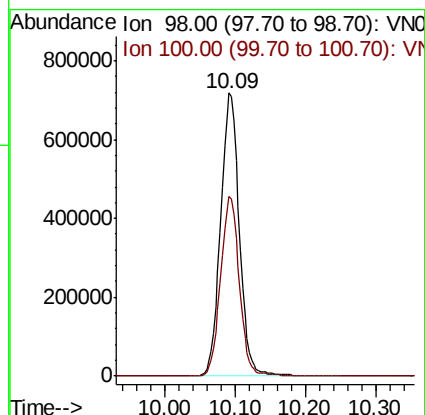
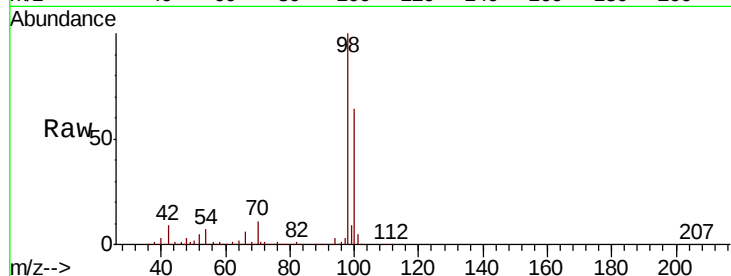
PL-05-090718-C

Tot Ion: 98 Resp: 1327899

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN051101.D

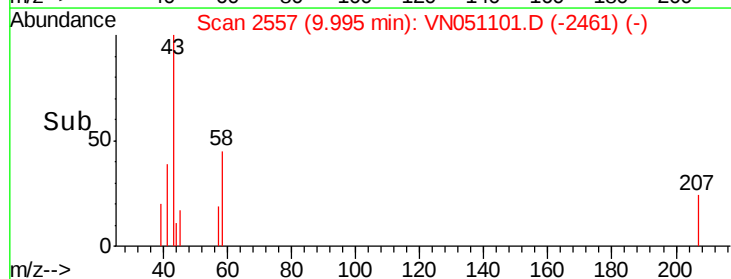
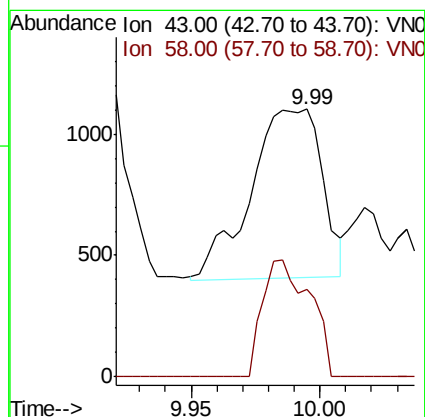
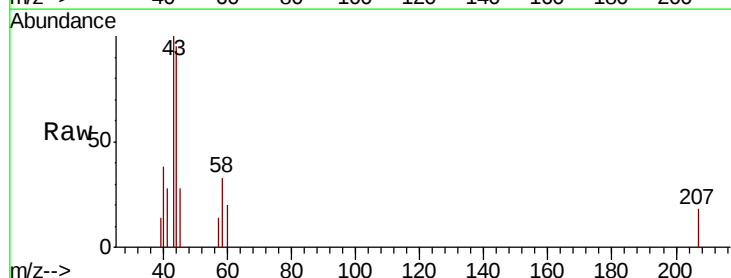
Acq: 11 Sep 2018 1:36

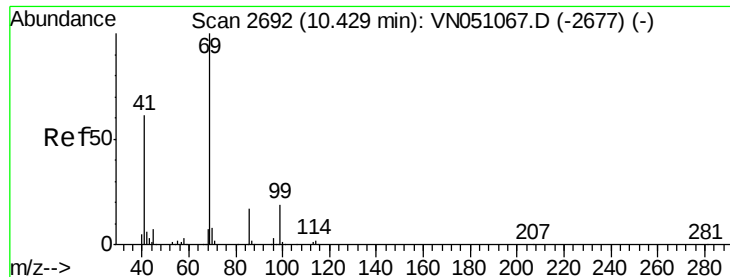
Tgt Ion: 43 Resp: 1353

Ion Ratio Lower Upper

43 100

58 45.6 33.5 50.3

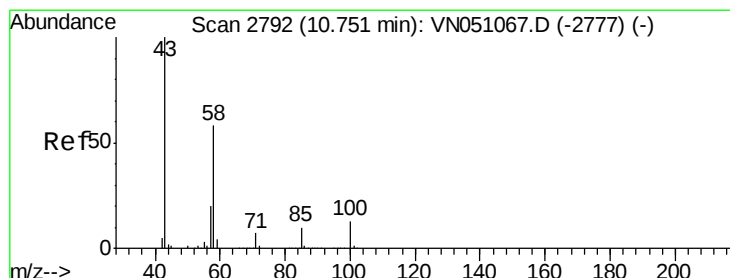
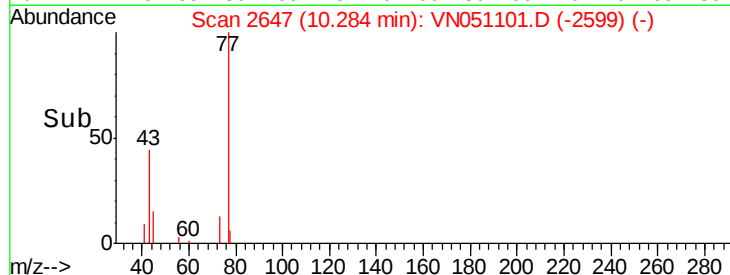
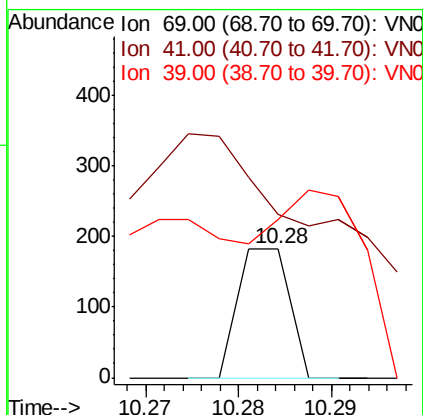
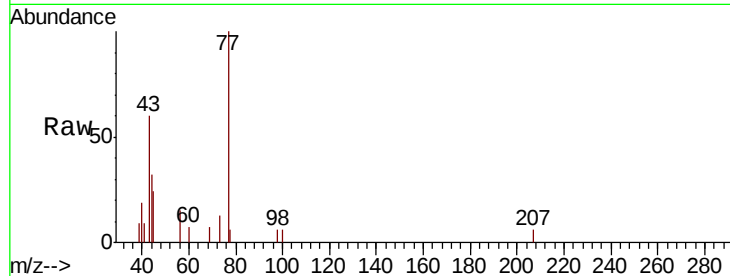




#56  
Ethyl methacrylate  
Concen: 2.46 ug/l  
RT: 10.28 min Scan# 2647  
Delta R.T. -0.14 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

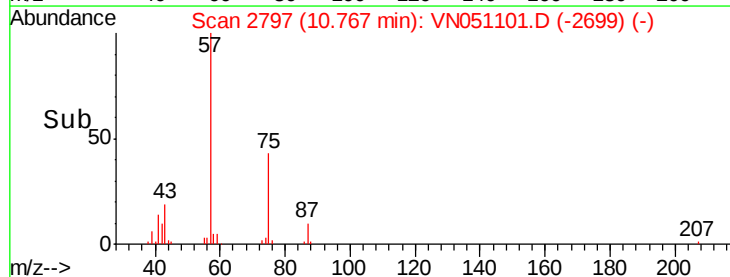
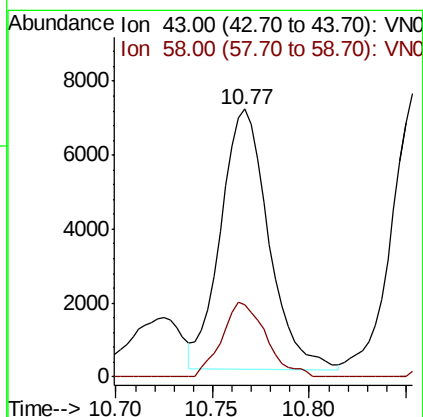
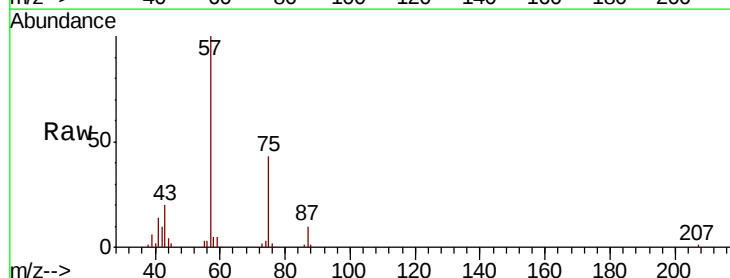
Instrument :  
MSVOA\_N  
ClientSampled :  
PL-05-090718-C

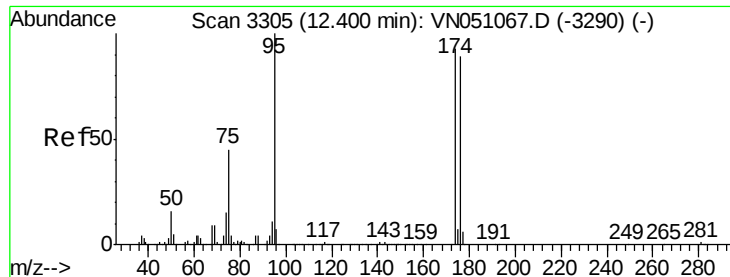
Tot Ion: 69 Resp: 70  
Ion Ratio Lower Upper  
69 100  
41 0.0 47.8 71.8#  
39 255.7 23.0 34.4#



#59  
2-Hexanone  
Concen: 2.96 ug/l  
RT: 10.77 min Scan# 2797  
Delta R.T. 0.02 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

Tgt Ion: 43 Resp: 12103  
Ion Ratio Lower Upper  
43 100  
58 26.4 29.3 88.0#





#62

4-Bromofluorobenzene

Concen: 40.00 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

PL-05-090718-C

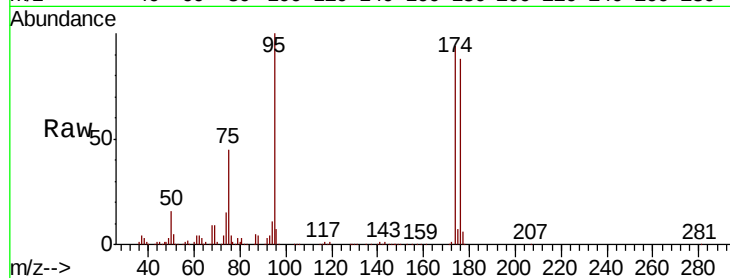
Tot Ion: 95 Resp: 366630

Ion Ratio Lower Upper

95 100

174 93.5 0.0 184.8

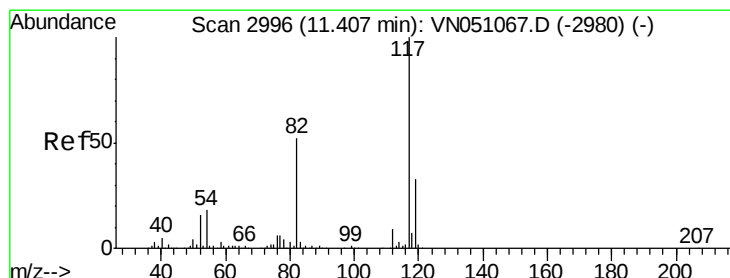
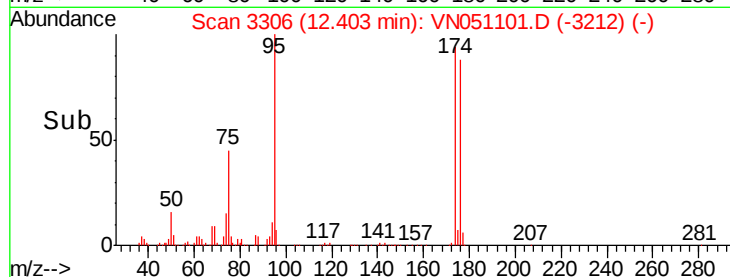
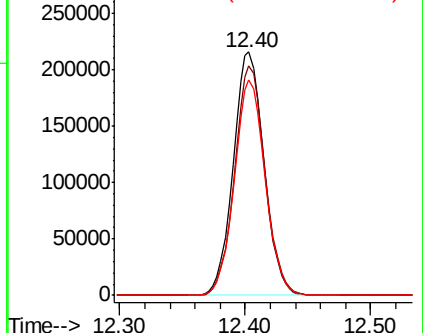
176 88.2 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VN051067.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051067.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051067.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

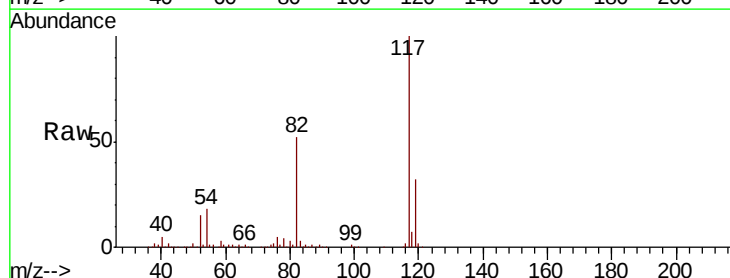
Tgt Ion: 117 Resp: 838683

Ion Ratio Lower Upper

117 100

82 51.7 41.8 62.6

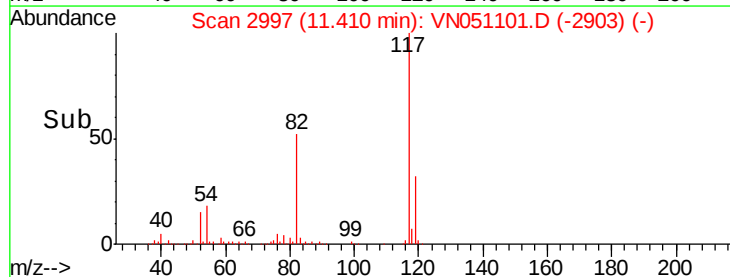
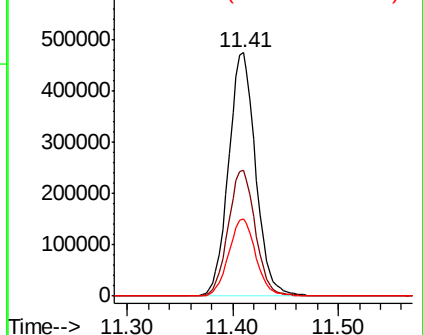
119 31.8 26.2 39.2

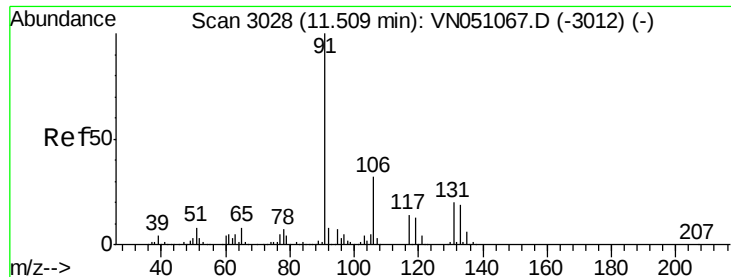


Abundance Ion 116.90 (116.60 to 117.60): VN051067.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051067.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051067.D (-2980) (-)





#67

Ethyl Benzene

Concen: 0.33 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampled :

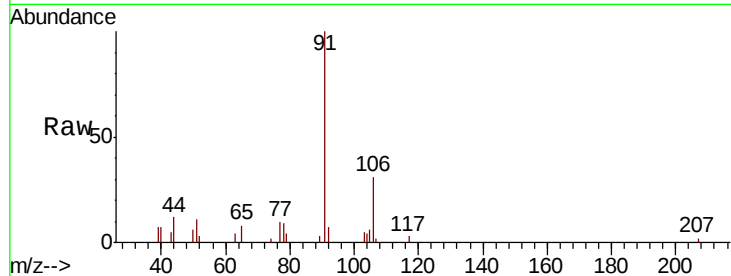
PL-05-090718-C

Tot Ion: 91 Resp: 11372

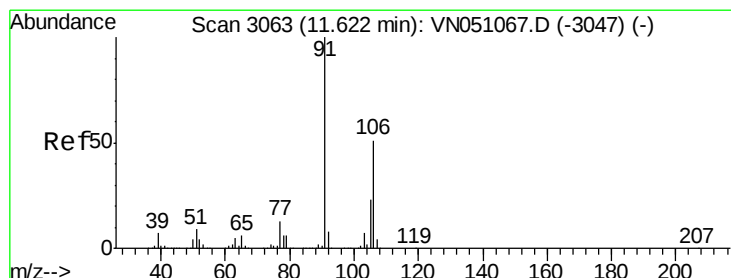
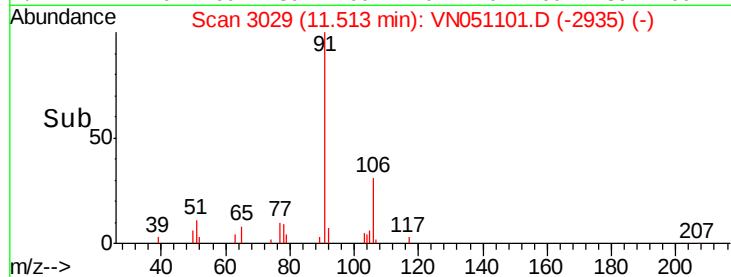
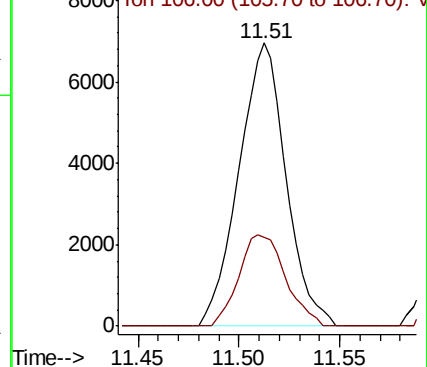
Ion Ratio Lower Upper

91 100

106 31.3 25.4 38.2



Abundance Ion 91.00 (90.70 to 91.70): VN051101.D (-2935) (-)



#68

m/p-Xylenes

Concen: 1.03 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN051101.D

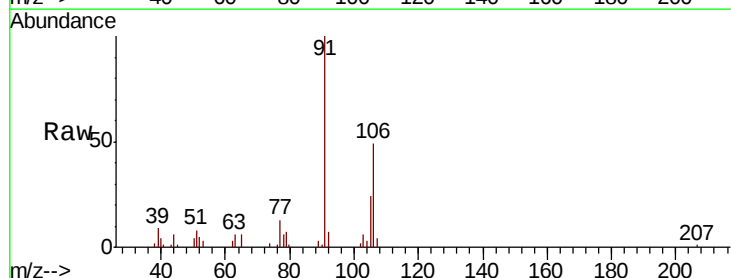
Acq: 11 Sep 2018 1:36

Tgt Ion: 106 Resp: 13567

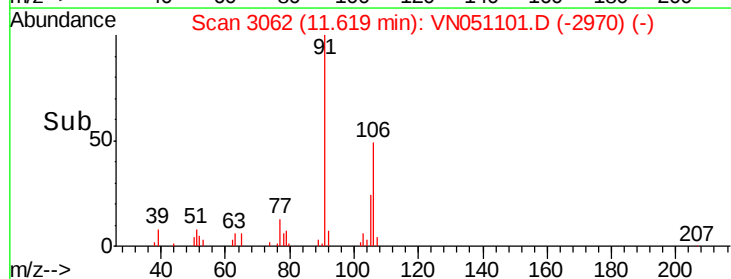
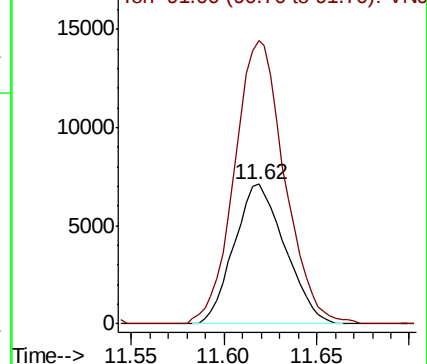
Ion Ratio Lower Upper

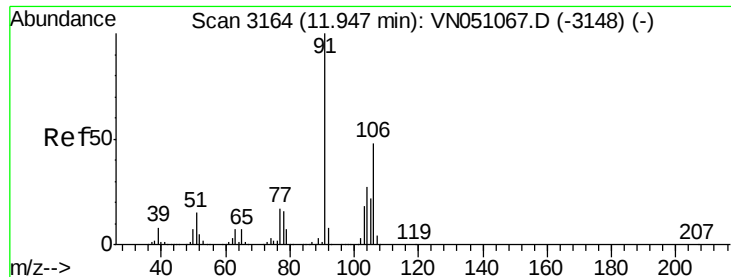
106 100

91 200.1 159.8 239.6



Abundance Ion 106.00 (105.70 to 106.70): VN051101.D (-2970) (-)

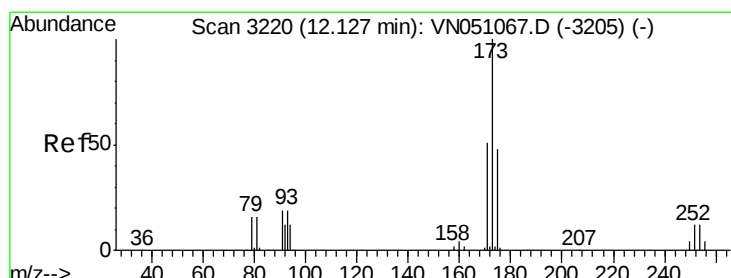
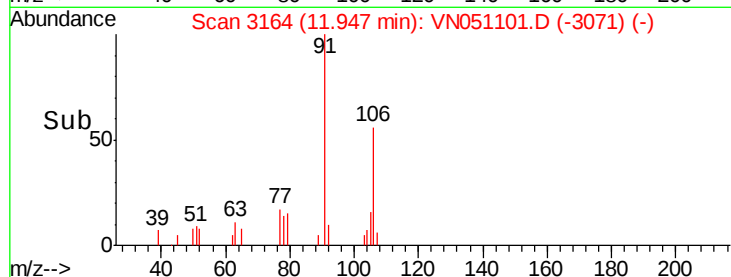
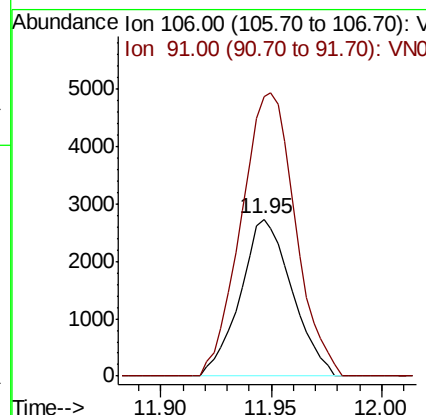
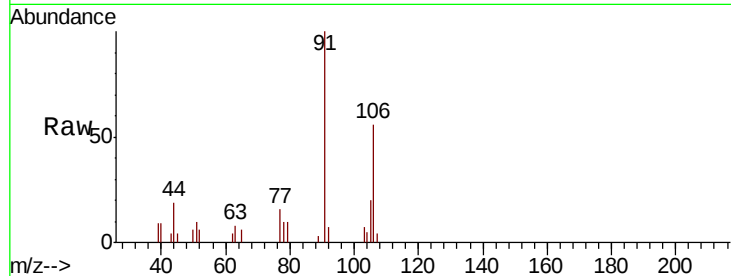




#69  
o-Xylene  
Concen: 0.35 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

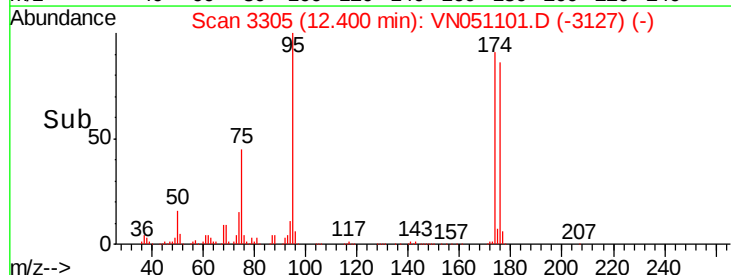
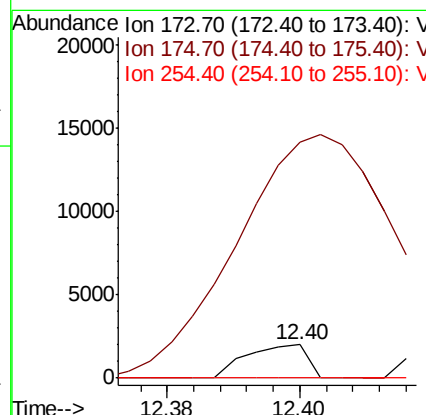
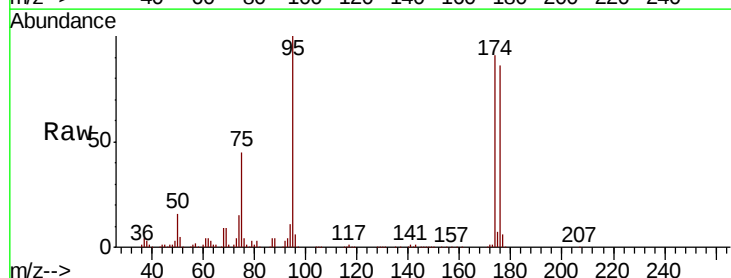
Instrument :  
MSVOA\_N  
ClientSampleId :  
PL-05-090718-C

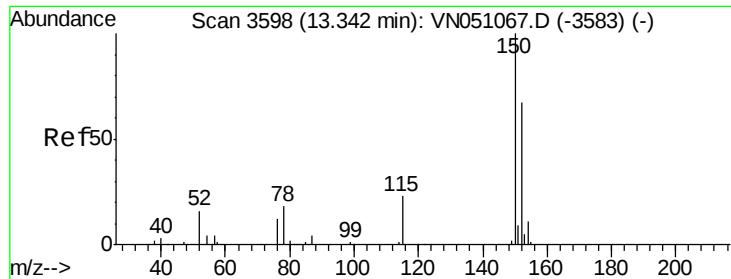
Tot Ion:106 Resp: 4446  
Ion Ratio Lower Upper  
106 100  
91 189.0 105.1 315.1



#71  
Bromoform  
Concen: 0.24 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN051101.D  
Acq: 11 Sep 2018 1:36

Tgt Ion:173 Resp: 1276  
Ion Ratio Lower Upper  
173 100  
175 1656.7 24.3 72.9#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

PL-05-090718-C

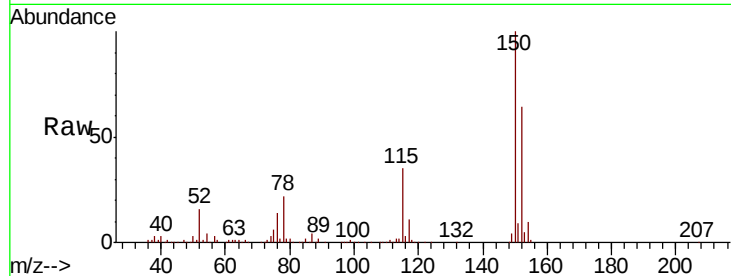
Tot Ion:152 Resp: 282096

Ion Ratio Lower Upper

152 100

115 55.9 28.2 84.7

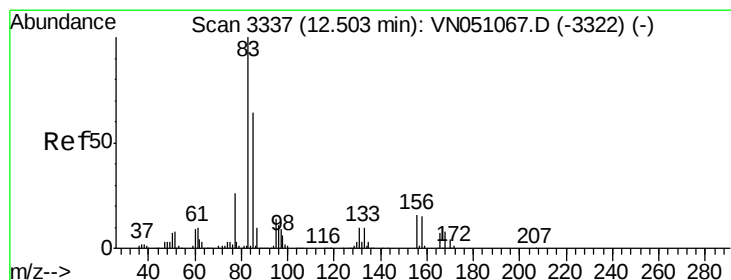
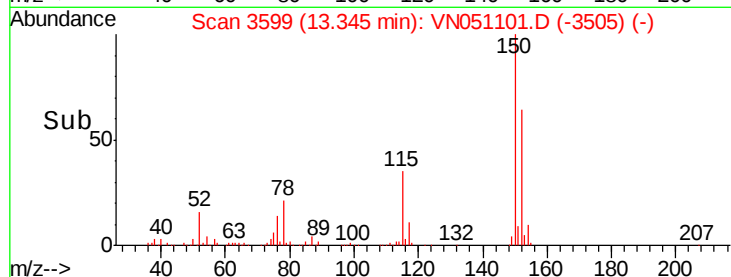
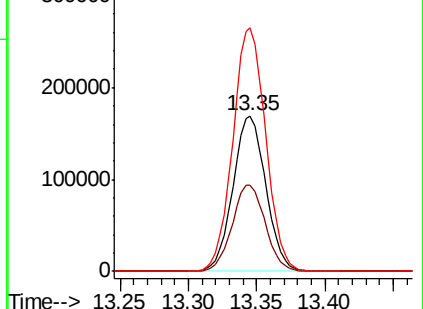
150 156.9 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

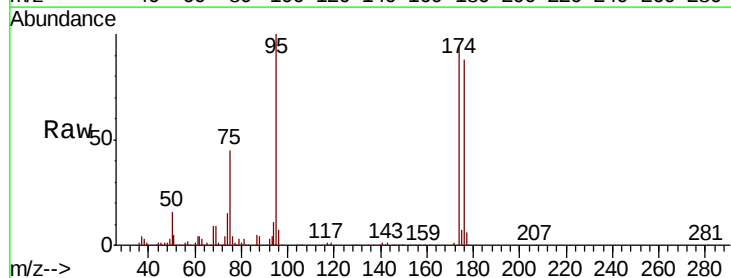
Tgt Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 1055.2 5.3 16.1#

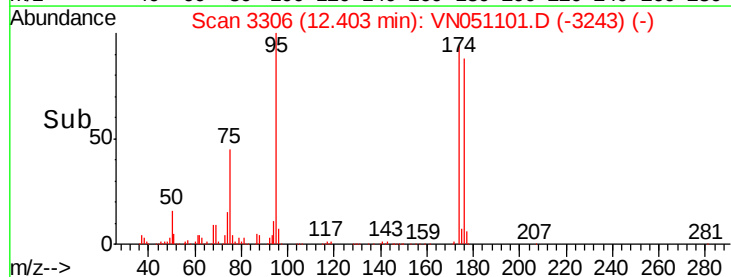
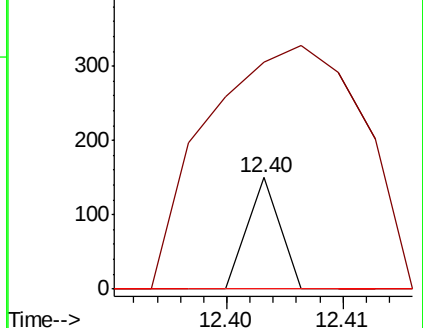
85 0.0 32.3 96.8#

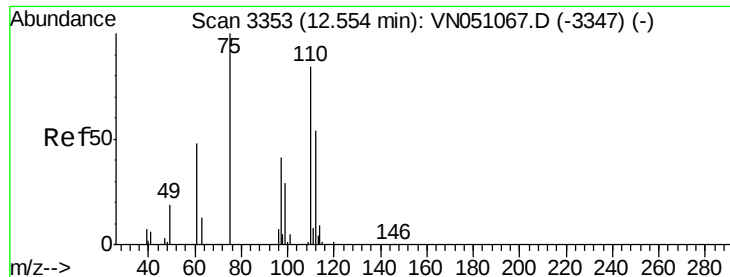


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

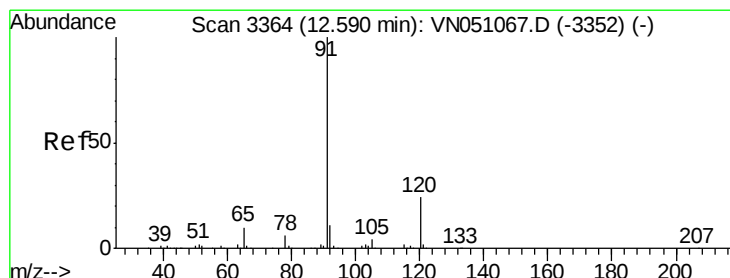
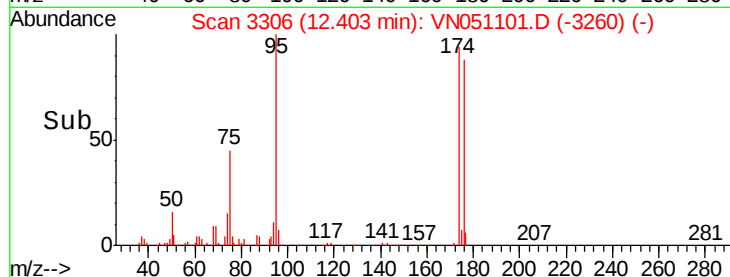
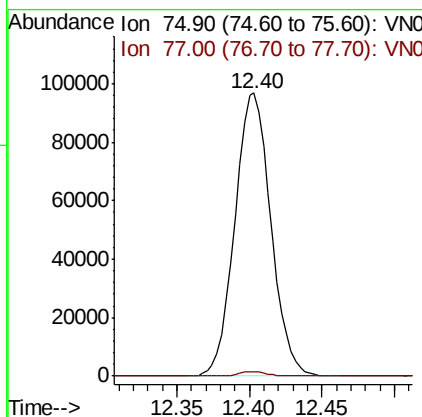
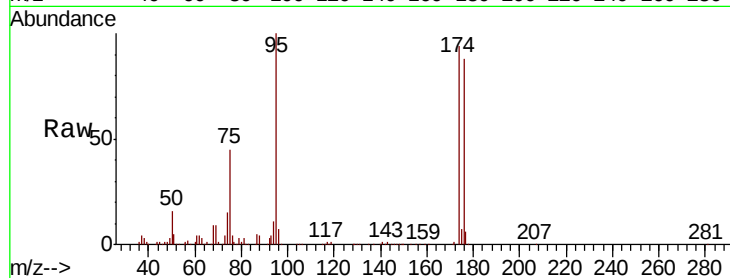




#76  
 1,2,3-Trichloropropane  
 Concen: 37.76 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. -0.15 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

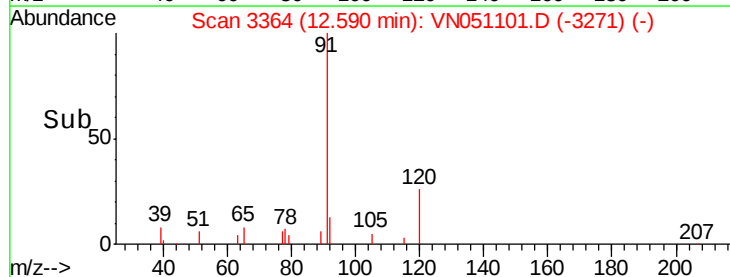
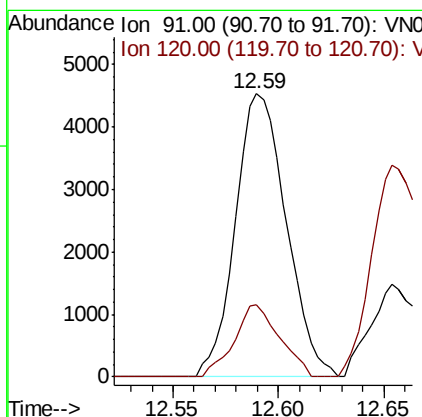
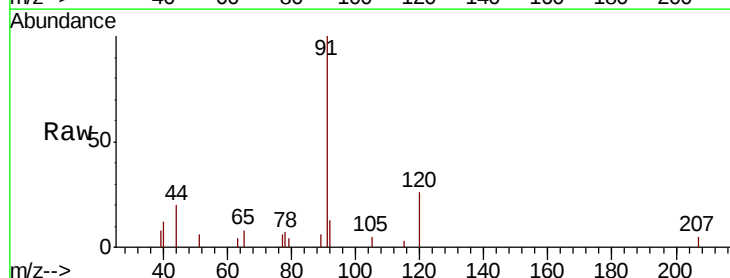
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 PL-05-090718-C

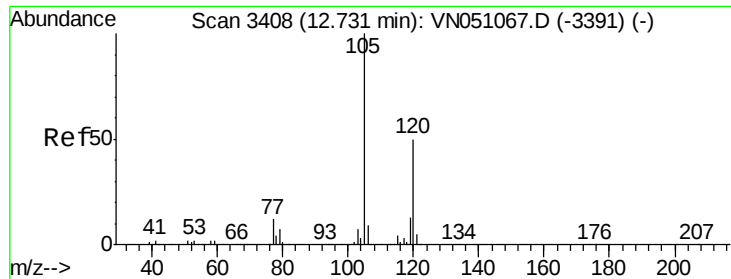
Tot Ion: 75 Resp: 166743  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#



#78  
 n-propylbenzene  
 Concen: 0.29 ug/l  
 RT: 12.59 min Scan# 3364  
 Delta R.T. -0.00 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

Tgt Ion: 91 Resp: 7598  
 Ion Ratio Lower Upper  
 91 100  
 120 22.7 12.0 36.0

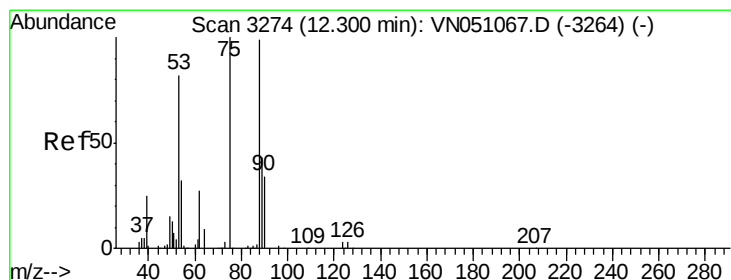
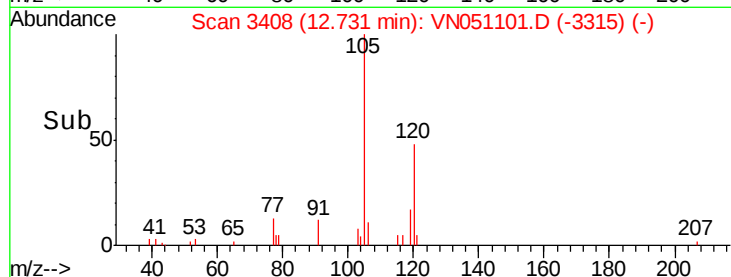
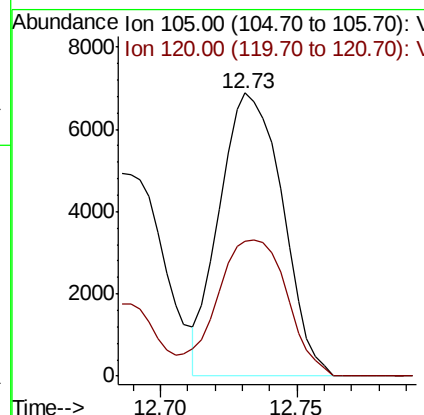
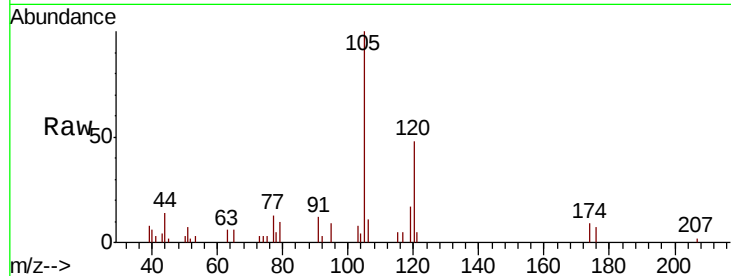




#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.58 ug/l  
 RT: 12.73 min Scan# 3408  
 Delta R.T. -0.00 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

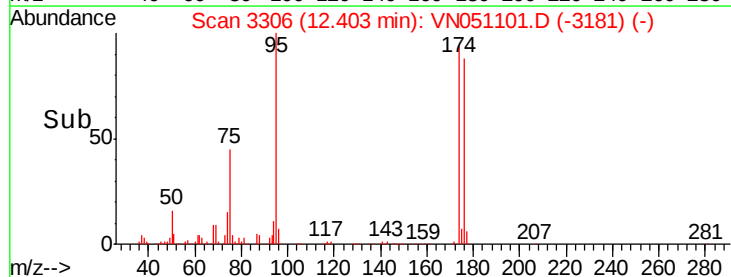
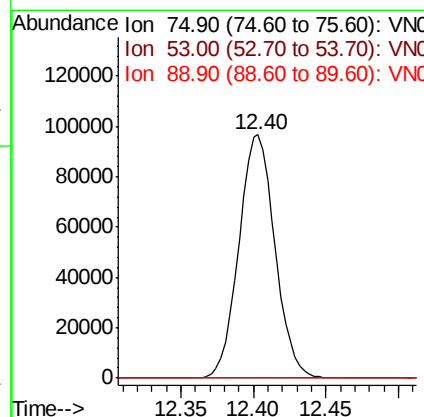
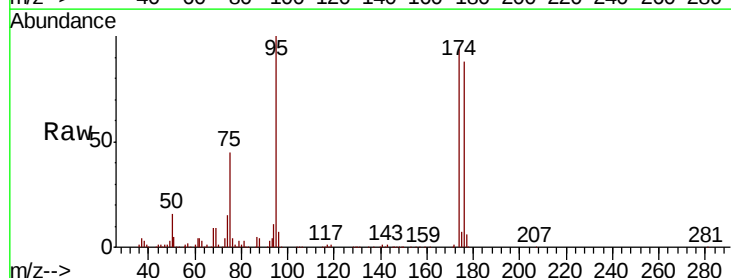
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PL-05-090718-C

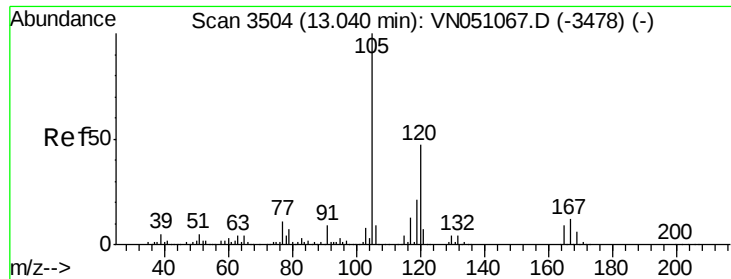
Tot Ion:105 Resp: 11028  
 Ion Ratio Lower Upper  
 105 100  
 120 54.1 24.9 74.6



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 112.26 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.10 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

Tgt Ion: 75 Resp: 166743  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 67.8 101.8#  
 89 0.0 36.0 54.0#

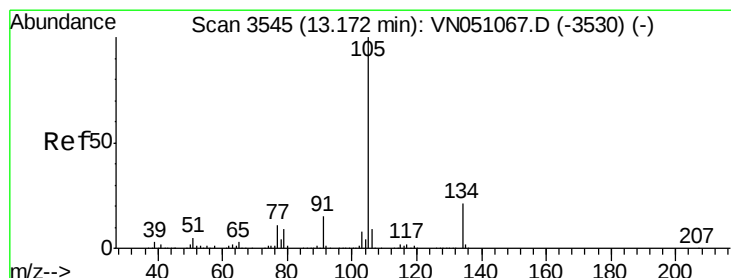
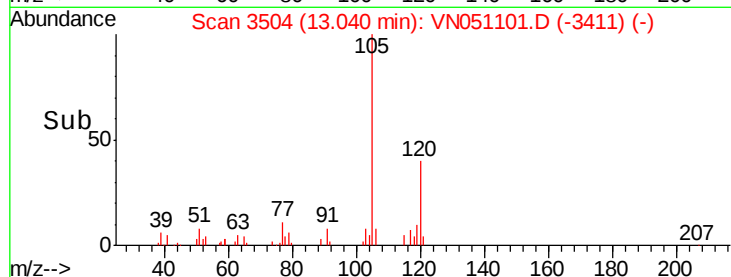
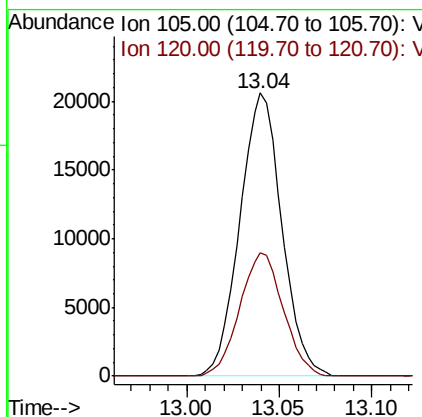
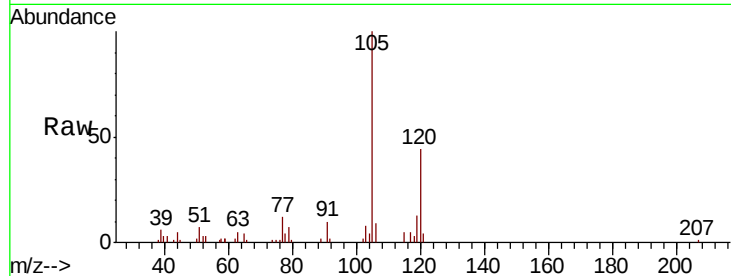




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.72 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.00 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

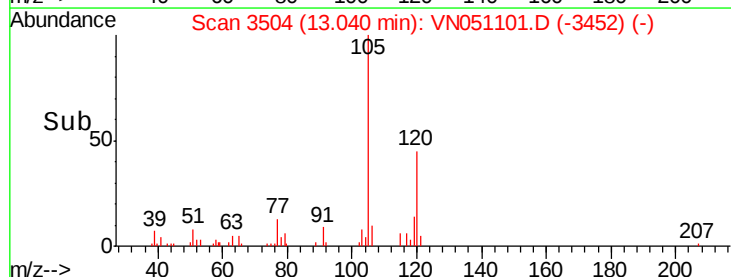
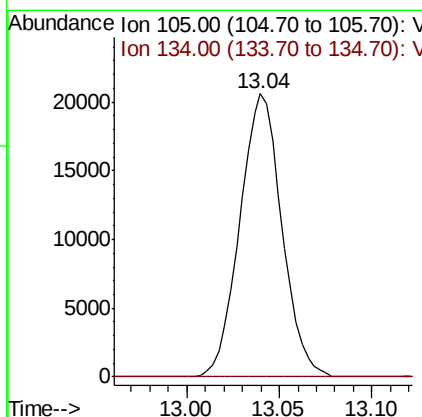
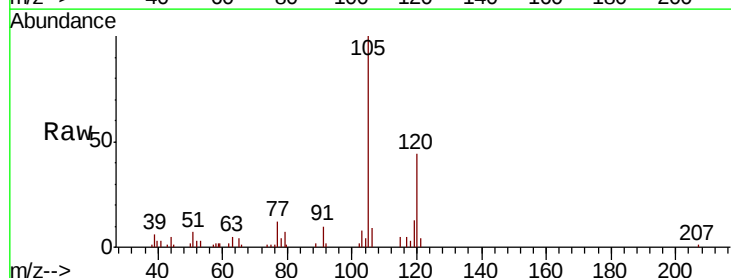
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PL-05-090718-C

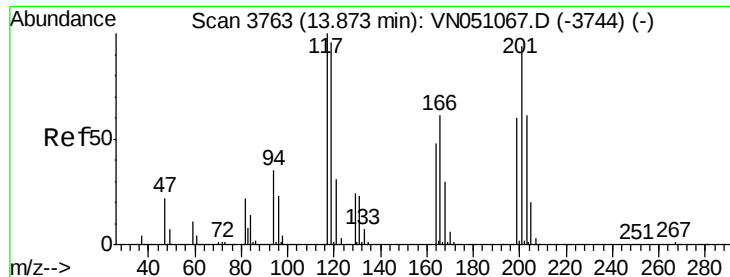
Tot Ion:105 Resp: 32320  
 Ion Ratio Lower Upper  
 105 100  
 120 45.1 23.3 69.8



#85  
 sec-Butylbenzene  
 Concen: 1.49 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.13 min  
 Lab File: VN051101.D  
 Acq: 11 Sep 2018 1:36

Tgt Ion:105 Resp: 32320  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.4 31.4#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampled :

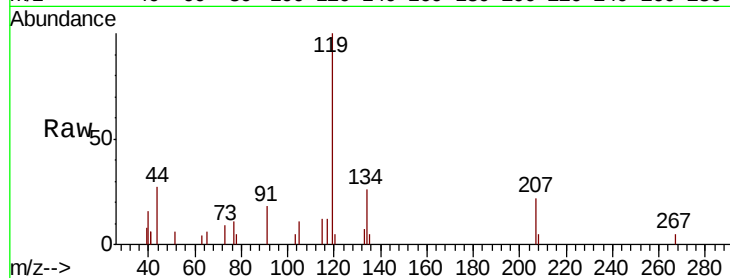
PL-05-090718-C

Tot Ion:117 Resp: 645

Ion Ratio Lower Upper

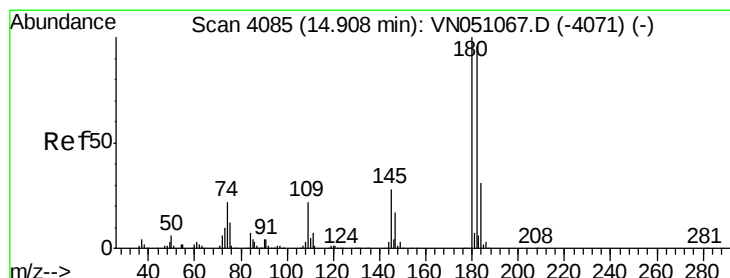
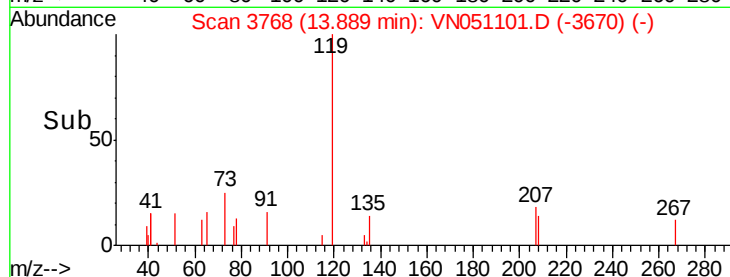
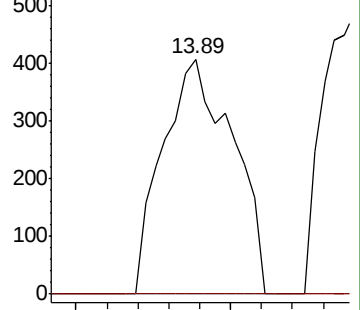
117 100

201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 4.00 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

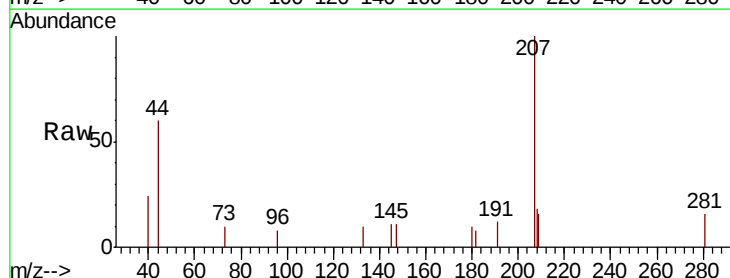
Tgt Ion:180 Resp: 73

Ion Ratio Lower Upper

180 100

182 134.2 47.3 141.8

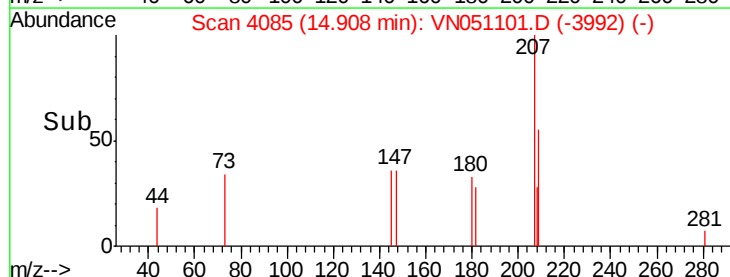
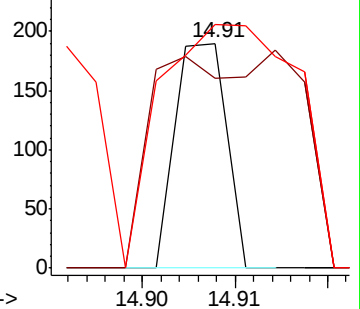
145 289.0 14.2 42.6#

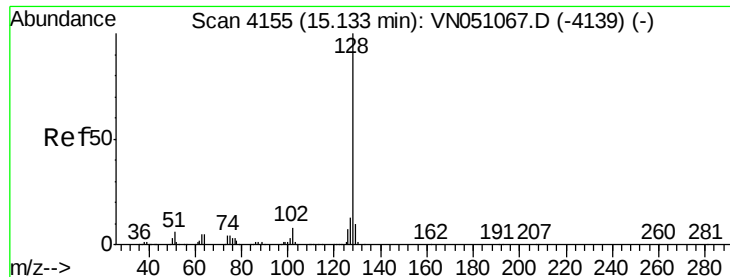


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 6.10 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

Instrument :

MSVOA\_N

ClientSampleId :

PL-05-090718-C

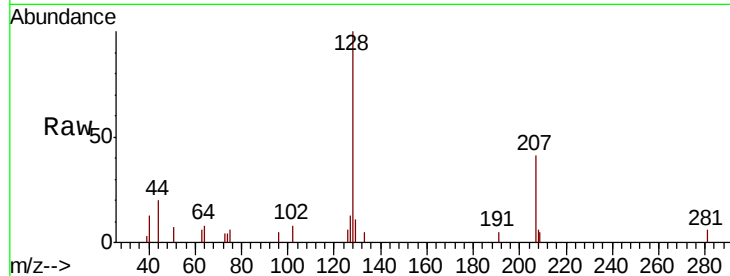
Tot Ion:128 Resp: 8966

Ion Ratio Lower Upper

128 100

127 12.2 10.6 15.8

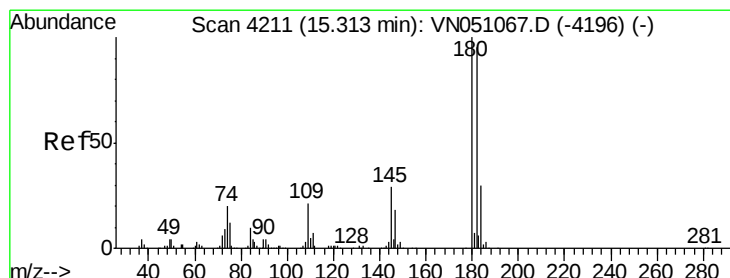
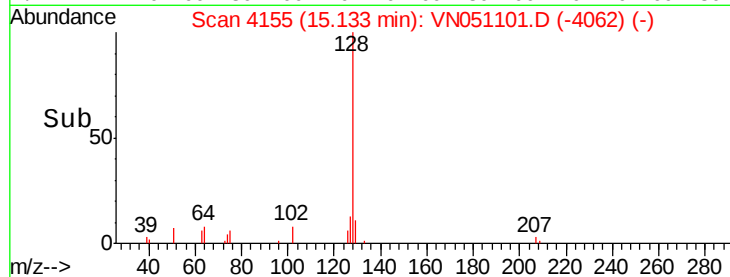
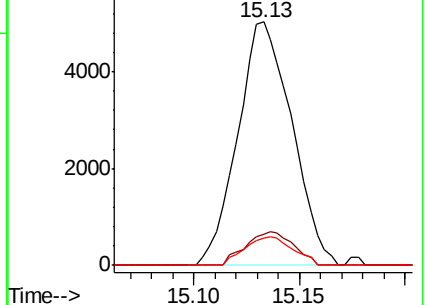
129 10.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.97 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN051101.D

Acq: 11 Sep 2018 1:36

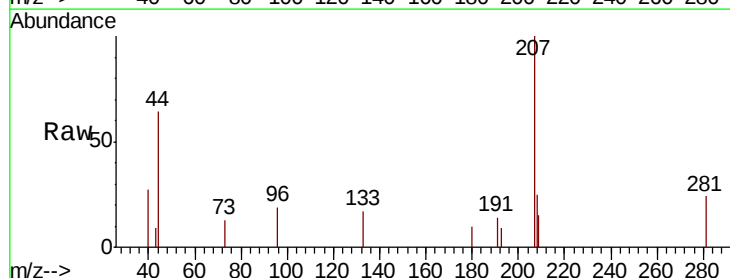
Tgt Ion:180 Resp: 95

Ion Ratio Lower Upper

180 100

182 30.5 47.8 143.3#

145 0.0 14.6 43.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

