

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\  
 Data File : VN050068.D  
 Acq On : 26 Jul 2018 1:58  
 Operator : MD\SY  
 Sample : J3821-12  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HR-06-072418-C

Quant Time: Jul 26 07:56:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 24 06:27:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 651256   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1086473  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 925326   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 374120   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 459257   | 50.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.08% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 410831   | 46.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.62%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1466936  | 44.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.96%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 420374   | 39.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.30%  |          |

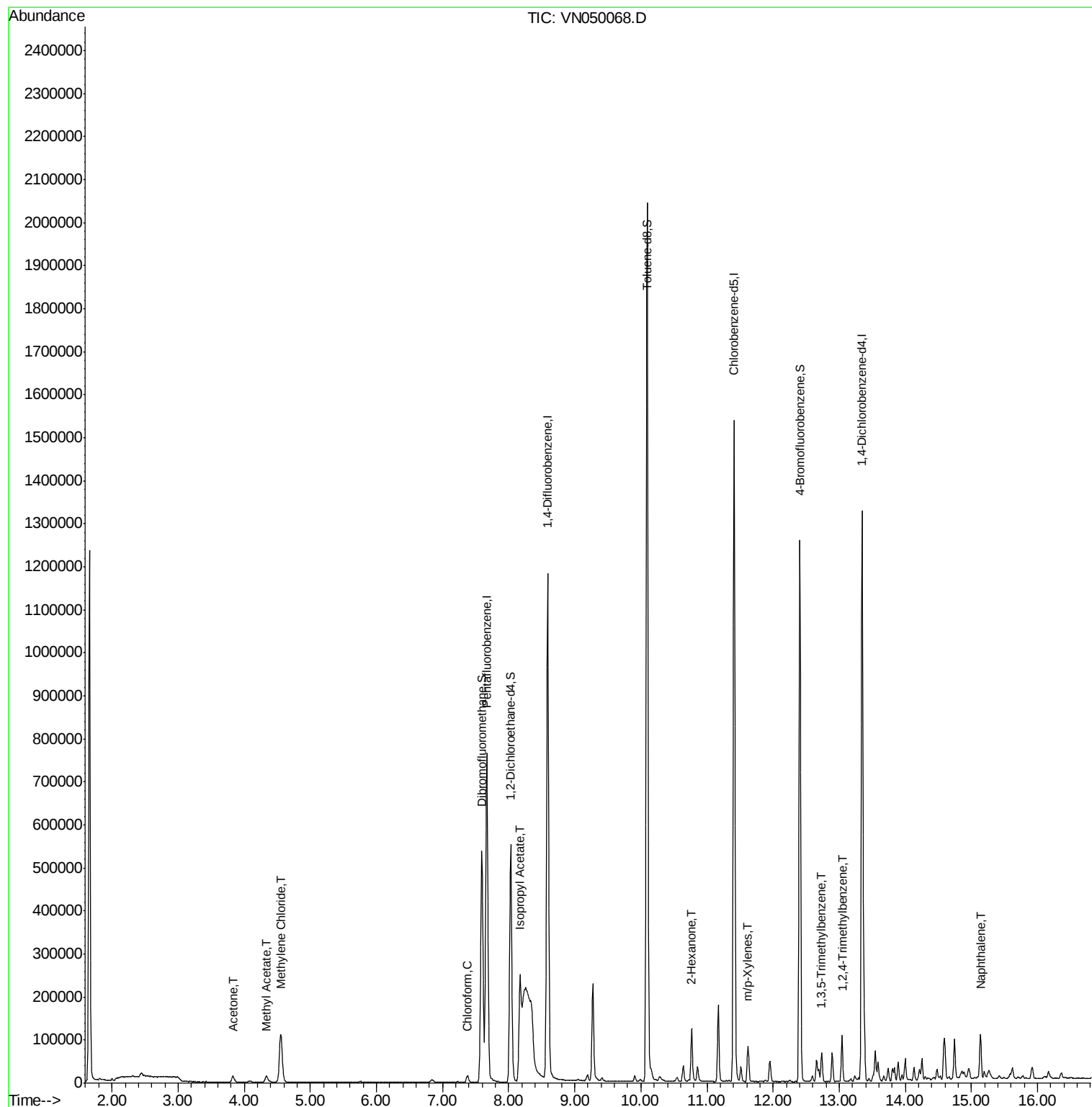
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone                | 3.83  | 43   | 24027    | 7.01  | ug/l   | 92     |
| 18) Methyl Acetate         | 4.34  | 43   | 30431    | 2.09  | ug/l   | 95     |
| 20) Methylene Chloride     | 4.55  | 84   | 88511    | 9.98  | ug/l   | 98     |
| 30) Chloroform             | 7.38  | 83   | 15837    | 1.03  | ug/l   | 99     |
| 43) Isopropyl Acetate      | 8.17  | 43   | 312711   | 18.73 | ug/l # | 90     |
| 59) 2-Hexanone             | 10.77 | 43   | 17038    | 7.88  | ug/l # | 60     |
| 68) m/p-Xylenes            | 11.62 | 106  | 25704    | 1.81  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 34232    | 1.50  | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 58711    | 2.55  | ug/l   | 100    |
| 95) Naphthalene            | 15.14 | 128  | 91169    | 9.28  | ug/l   | 98     |

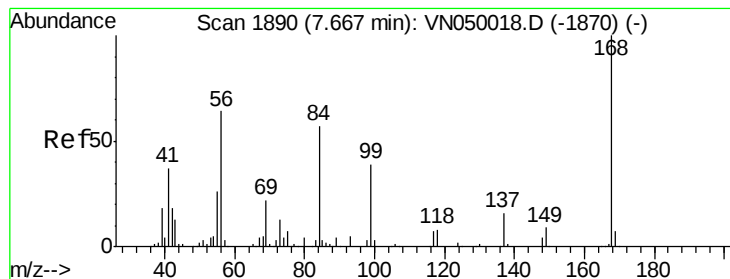
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Jul 24 06:27:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

Instrument :

MSVOA\_N

ClientSampleId :

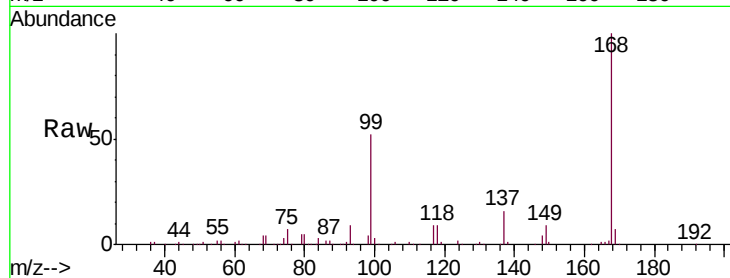
HR-06-072418-C

Tot Ion:168 Resp: 651256

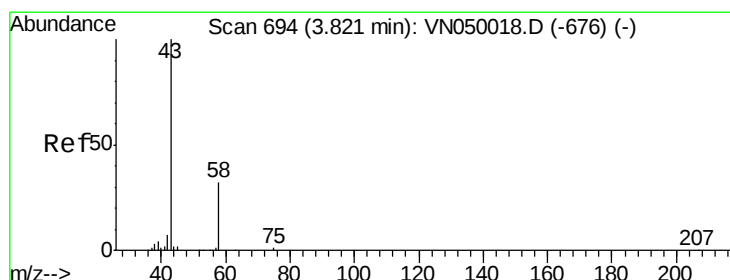
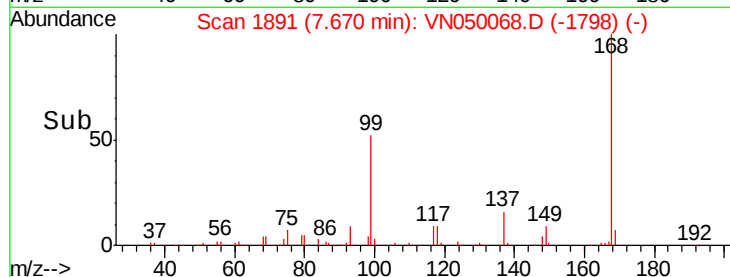
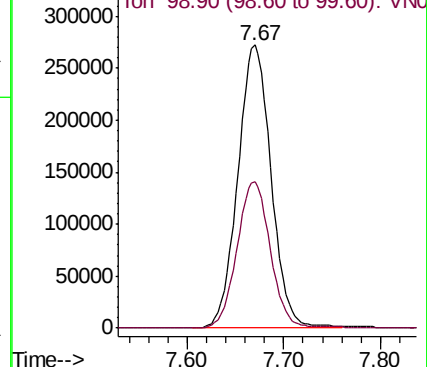
Ion Ratio Lower Upper

168 100

99 51.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)



#16

Acetone

Concen: 7.01 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050068.D

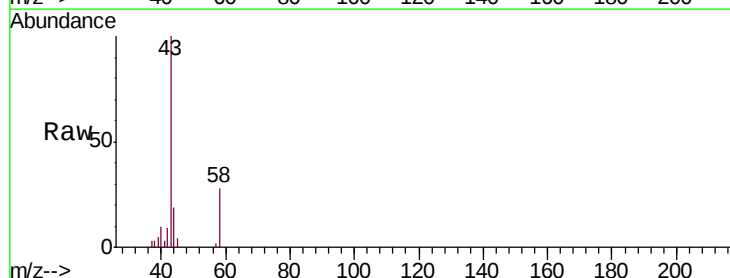
Acq: 26 Jul 2018 1:58

Tgt Ion: 43 Resp: 24027

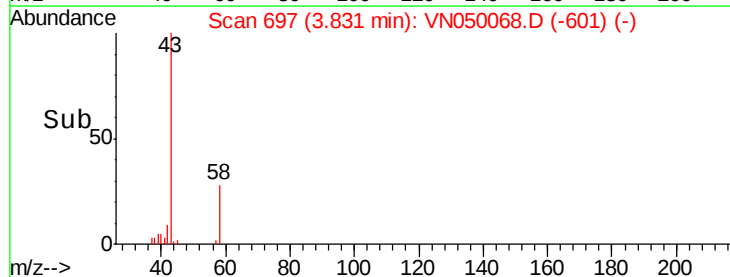
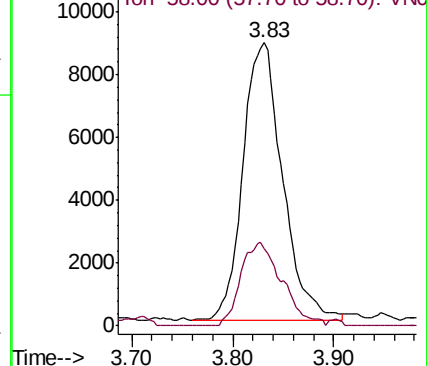
Ion Ratio Lower Upper

43 100

58 28.1 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-676) (-)





#18

Methyl Acetate

Concen: 2.09 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

Instrument :

MSVOA\_N

ClientSampleId :

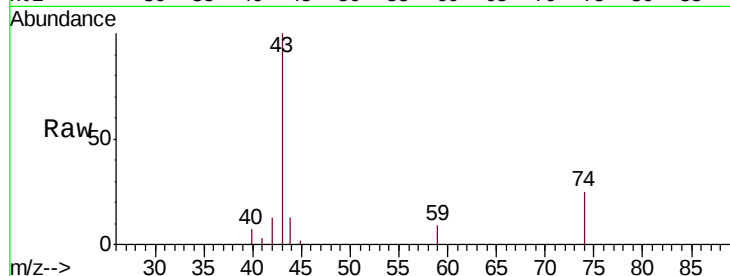
HR-06-072418-C

Tot Ion: 43 Resp: 30431

Ion Ratio Lower Upper

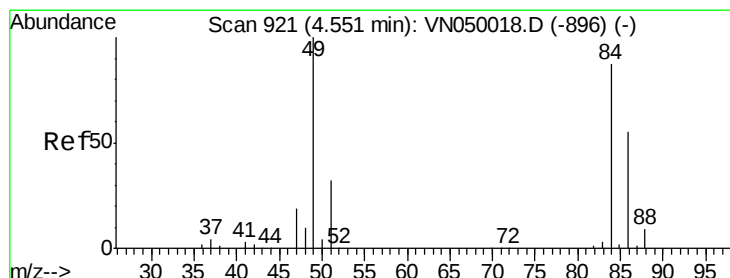
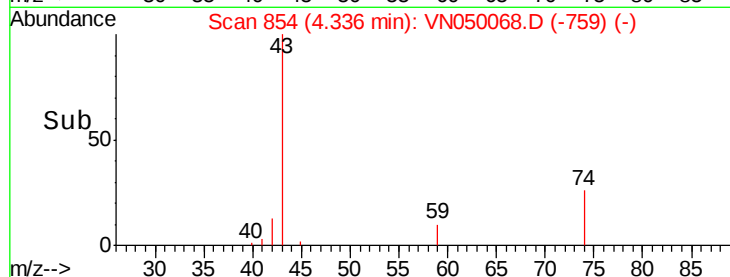
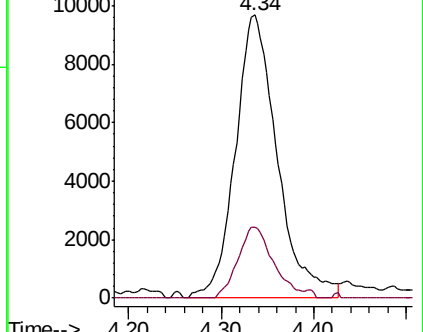
43 100

74 21.3 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN050068.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN050068.D (-759) (-)



#20

Methylene Chloride

Concen: 9.98 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

Tgt Ion: 84 Resp: 88511

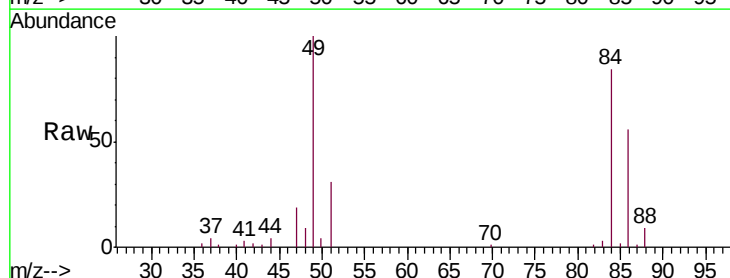
Ion Ratio Lower Upper

84 100

49 119.5 94.8 142.2

51 36.9 28.3 42.5

86 67.0 51.0 76.6

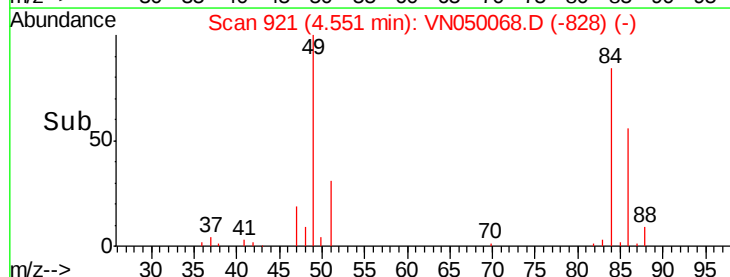
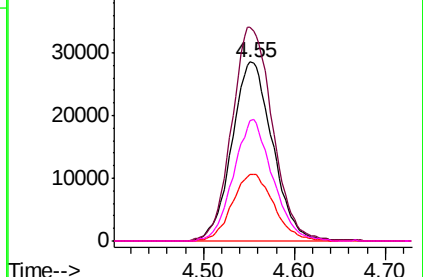


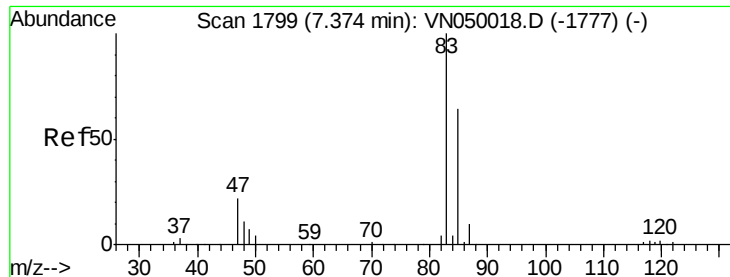
Abundance Ion 83.90 (83.60 to 84.60): VN050068.D (-828) (-)

Ion 48.90 (48.60 to 49.60): VN050068.D (-828) (-)

Ion 50.90 (50.60 to 51.60): VN050068.D (-828) (-)

Ion 85.90 (85.60 to 86.60): VN050068.D (-828) (-)





#30

Chloroform

Concen: 1.03 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

Instrument :

MSVOA\_N

ClientSampleId :

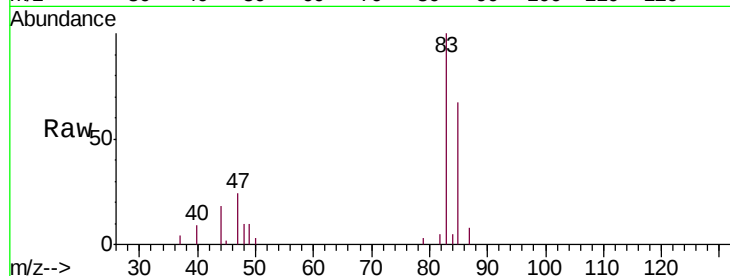
HR-06-072418-C

Tot Ion: 83 Resp: 15837

Ion Ratio Lower Upper

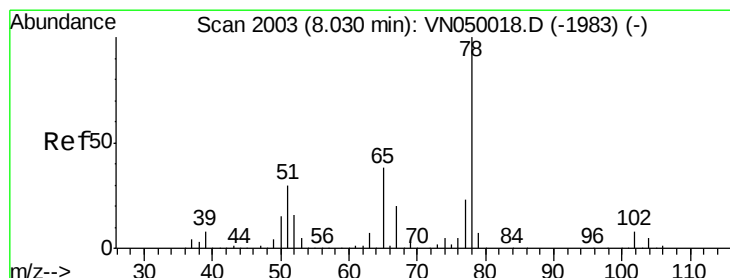
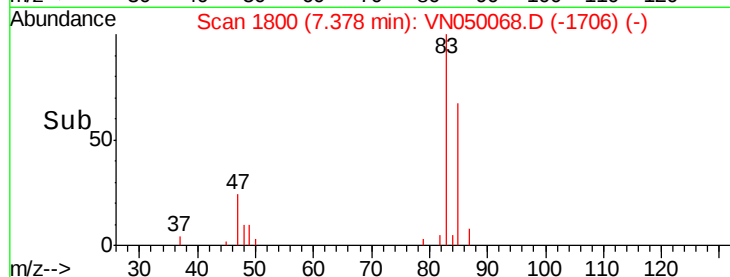
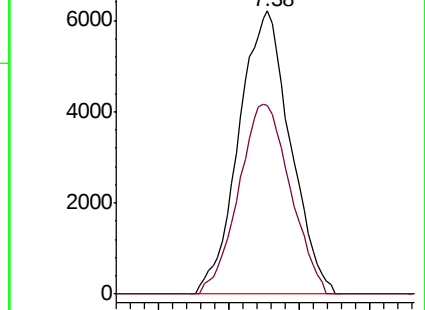
83 100

85 66.6 52.5 78.7



Abundance Ion 82.90 (82.60 to 83.60): VN050018.D (-1777) (-)

Ion 84.90 (84.60 to 85.60): VN050018.D (-1777) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.54 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050068.D

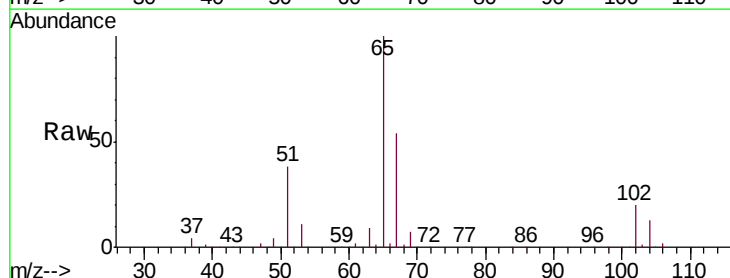
Acq: 26 Jul 2018 1:58

Tgt Ion: 65 Resp: 459257

Ion Ratio Lower Upper

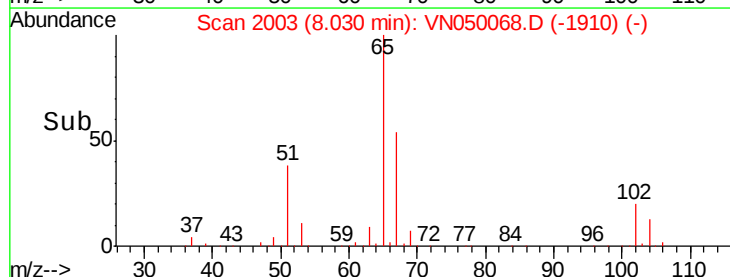
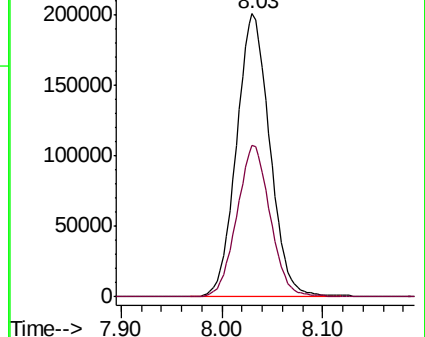
65 100

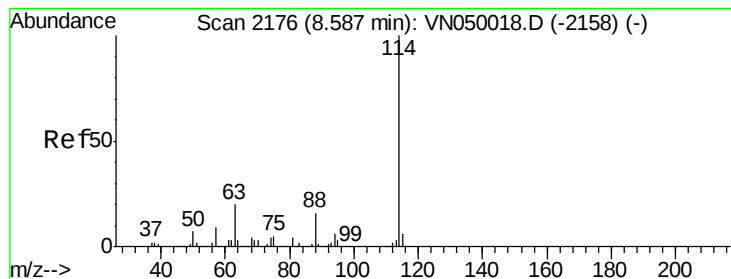
67 53.6 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050018.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050018.D (-1983) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

Instrument :

MSVOA\_N

ClientSampleId :

HR-06-072418-C

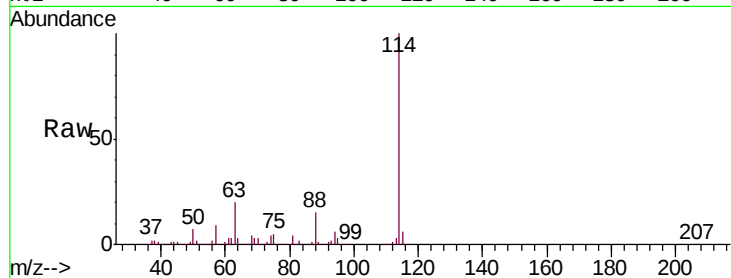
Tot Ion:114 Resp: 1086473

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

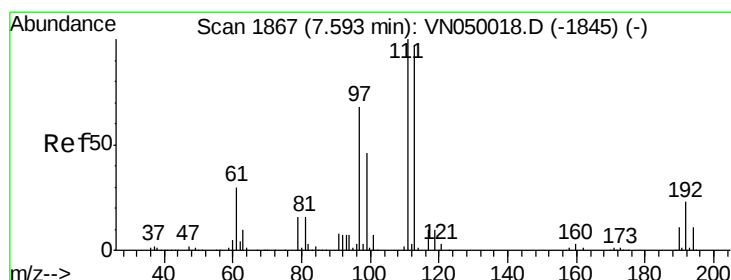
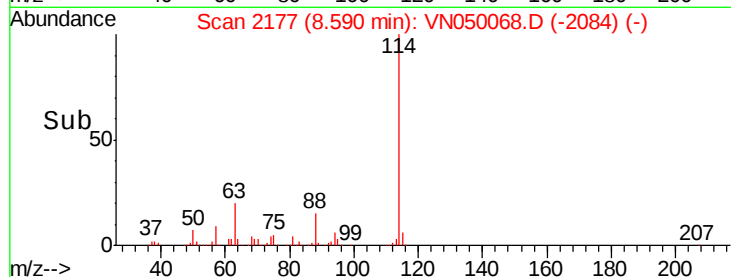
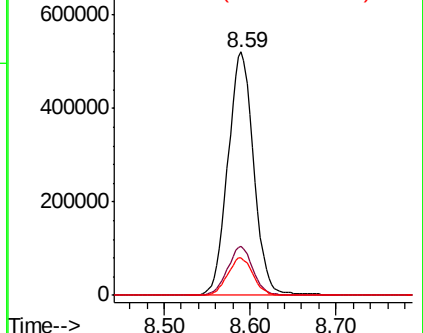
88 15.3 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 46.31 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

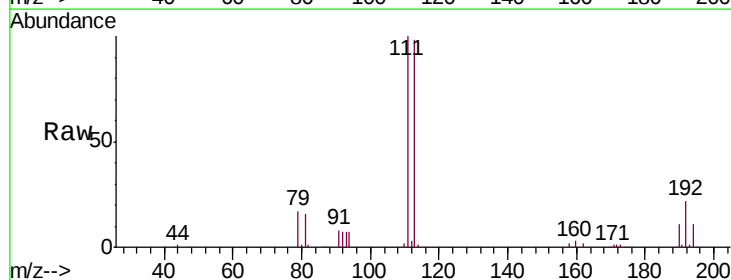
Tgt Ion:113 Resp: 410831

Ion Ratio Lower Upper

113 100

111 103.4 80.7 121.1

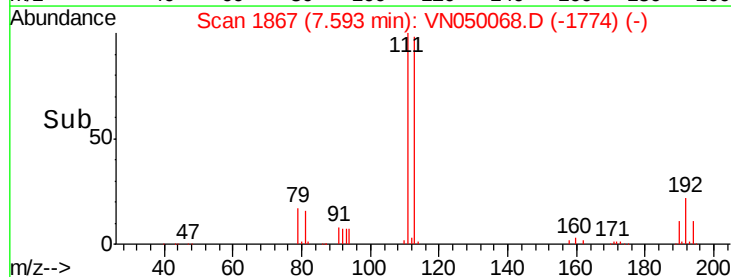
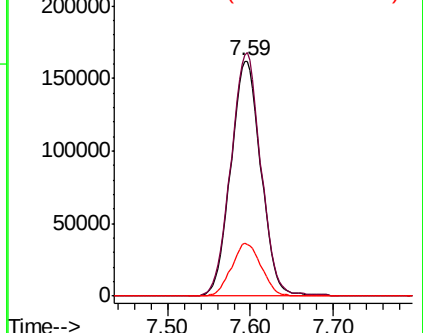
192 22.2 17.8 26.6

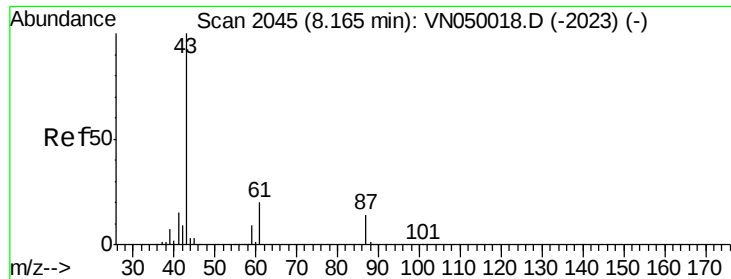


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



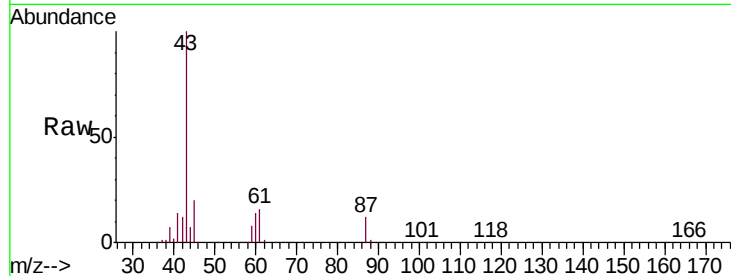


#43

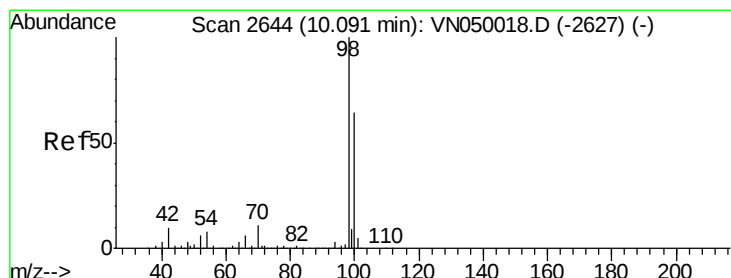
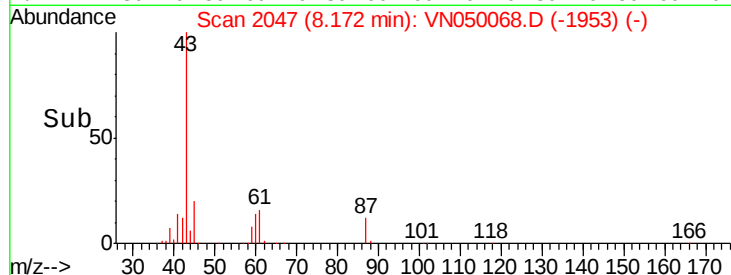
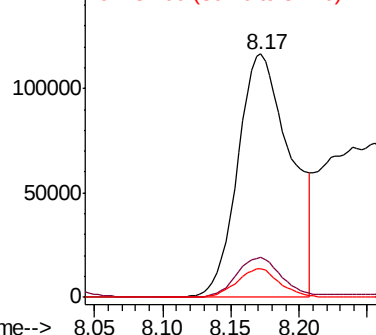
Isopropyl Acetate  
 Concen: 18.73 ug/l  
 RT: 8.17 min Scan# 2047  
 Delta R.T. 0.00 min  
 Lab File: VN050068.D  
 Acq: 26 Jul 2018 1:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HR-06-072418-C

Tot Ion: 43 Resp: 312711  
 Ion Ratio Lower Upper  
 43 100  
 61 14.5 15.8 23.6#  
 87 9.7 10.3 15.5#



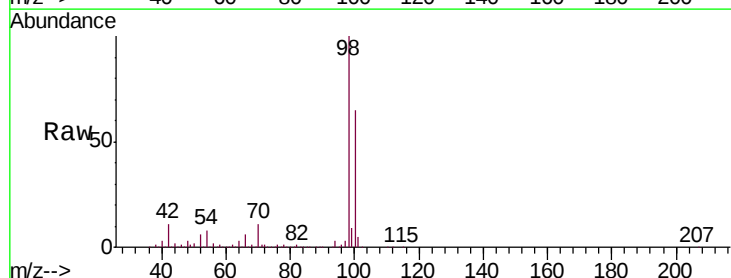
Abundance Ion 43.00 (42.70 to 43.70): VNO  
 Ion 61.00 (60.70 to 61.70): VNO  
 Ion 87.00 (86.70 to 87.70): VNO



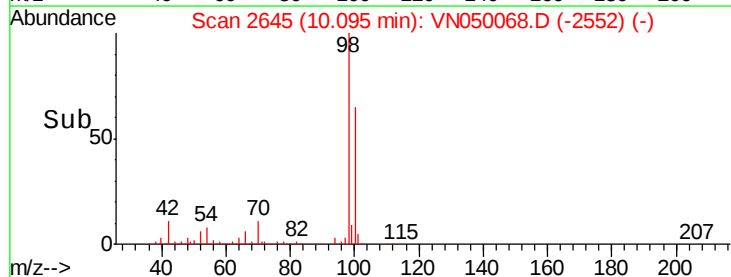
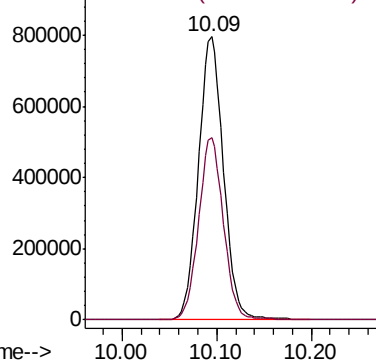
#50

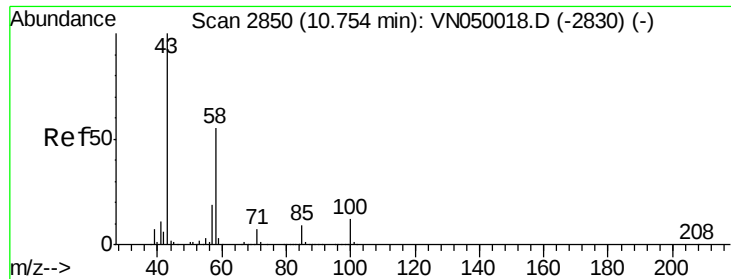
Toluene-d8  
 Concen: 44.98 ug/l  
 RT: 10.09 min Scan# 2645  
 Delta R.T. 0.00 min  
 Lab File: VN050068.D  
 Acq: 26 Jul 2018 1:58

Tgt Ion: 98 Resp: 1466936  
 Ion Ratio Lower Upper  
 98 100  
 100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VNO  
 Ion 100.00 (99.70 to 100.70): VNO





#59

2-Hexanone

Concen: 7.88 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

Instrument :

MSVOA\_N

ClientSampleId :

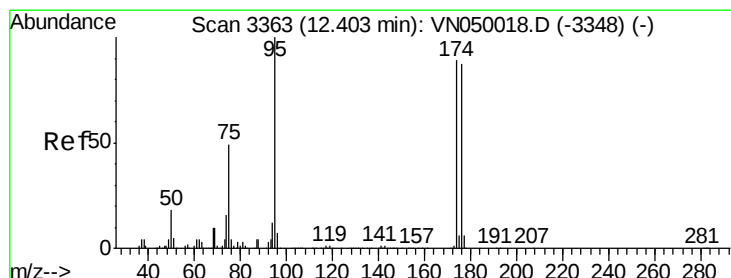
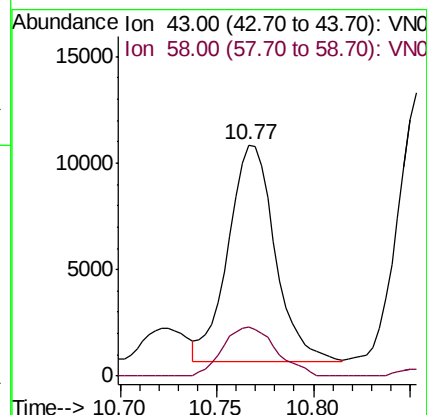
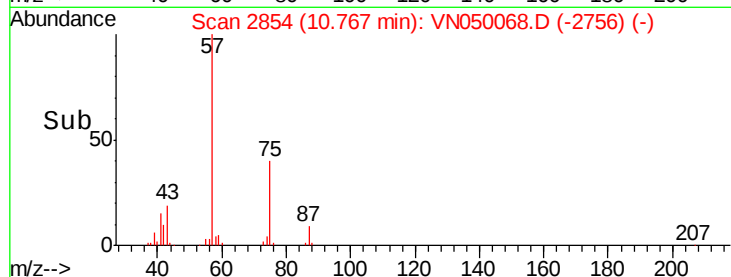
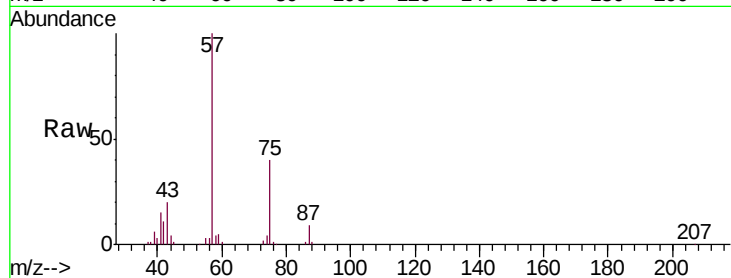
HR-06-072418-C

Tot Ion: 43 Resp: 17038

Ion Ratio Lower Upper

43 100

58 26.0 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 39.15 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

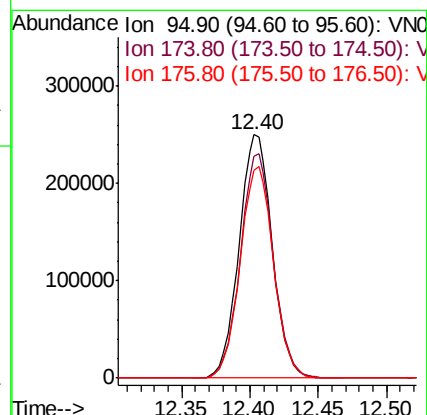
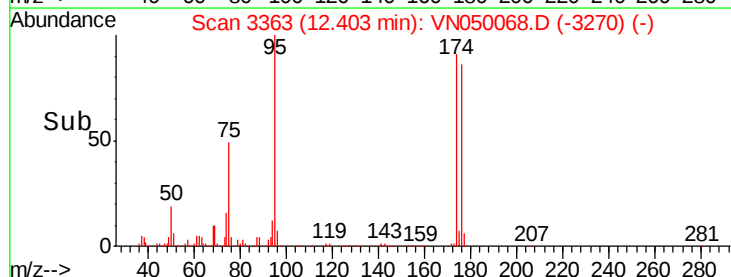
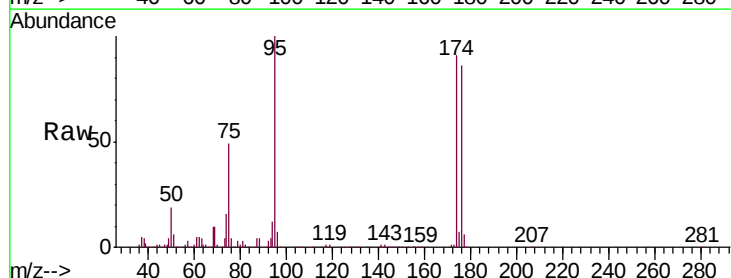
Tgt Ion: 95 Resp: 420374

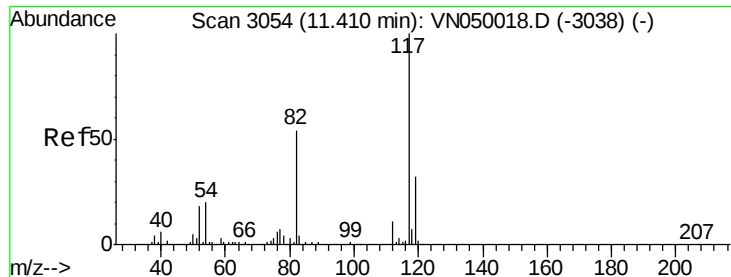
Ion Ratio Lower Upper

95 100

174 91.4 0.0 178.2

176 87.4 0.0 173.4

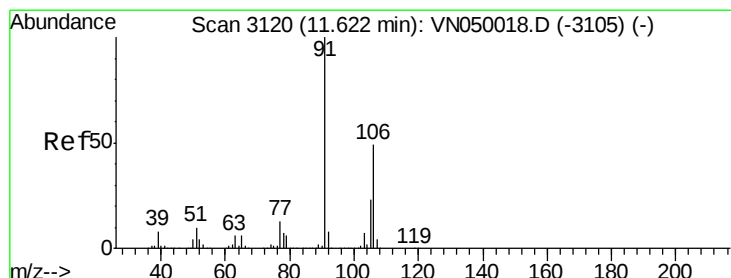
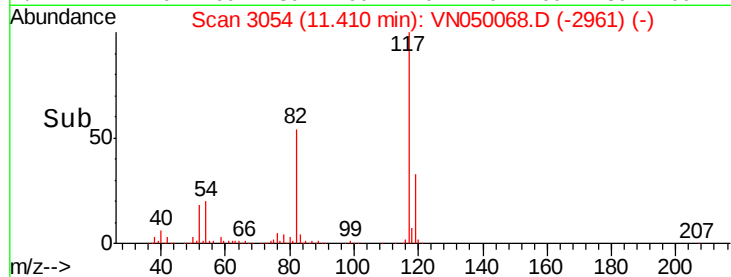
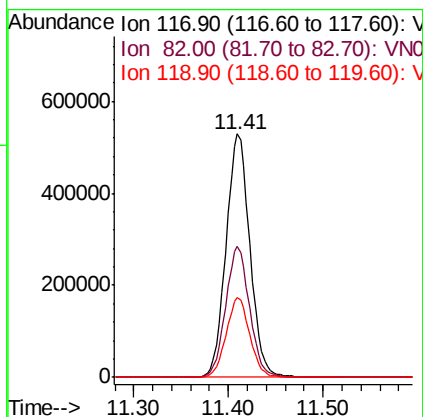
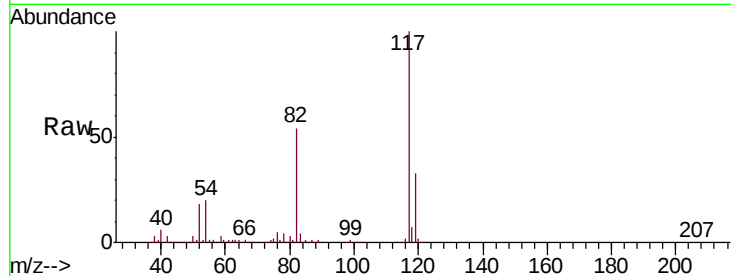




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050068.D  
Acq: 26 Jul 2018 1:58

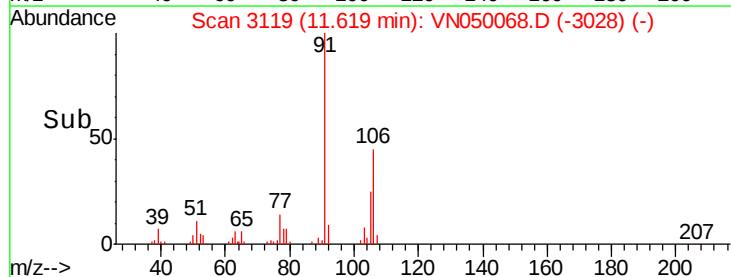
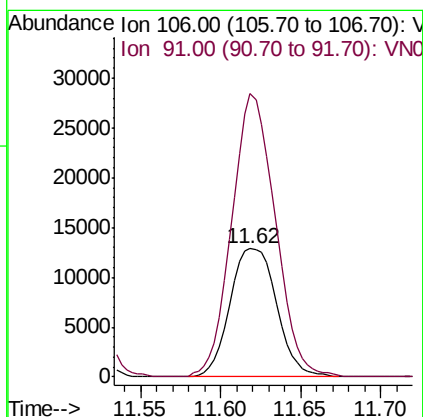
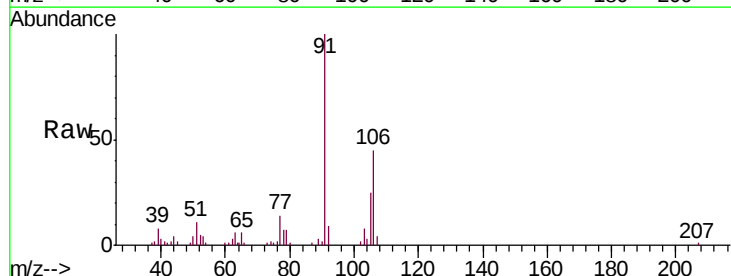
Instrument :  
MSVOA\_N  
ClientSampleId :  
HR-06-072418-C

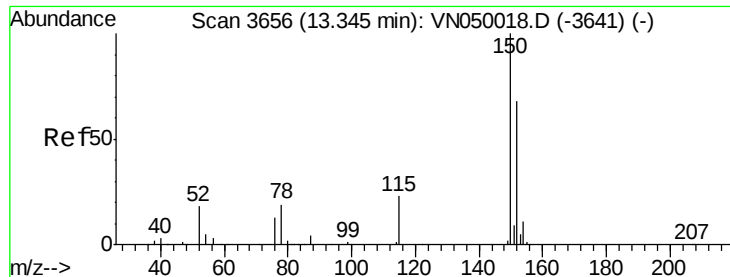
Tot Ion:117 Resp: 925326  
Ion Ratio Lower Upper  
117 100  
82 53.6 43.7 65.5  
119 32.7 26.1 39.1



#68  
m/p-Xylenes  
Concen: 1.81 ug/l  
RT: 11.62 min Scan# 3119  
Delta R.T. -0.01 min  
Lab File: VN050068.D  
Acq: 26 Jul 2018 1:58

Tgt Ion:106 Resp: 25704  
Ion Ratio Lower Upper  
106 100  
91 205.1 162.2 243.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050068.D

Acq: 26 Jul 2018 1:58

Instrument :

MSVOA\_N

ClientSampleId :

HR-06-072418-C

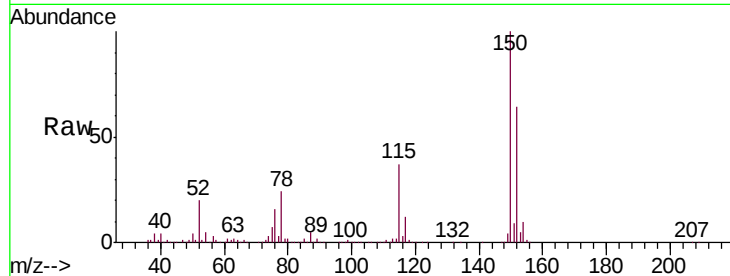
Tot Ion:152 Resp: 374120

Ion Ratio Lower Upper

152 100

115 57.8 27.8 83.3

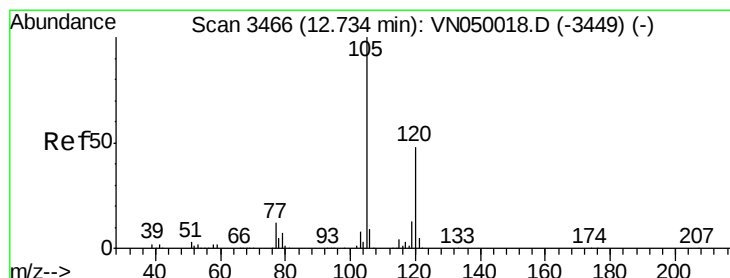
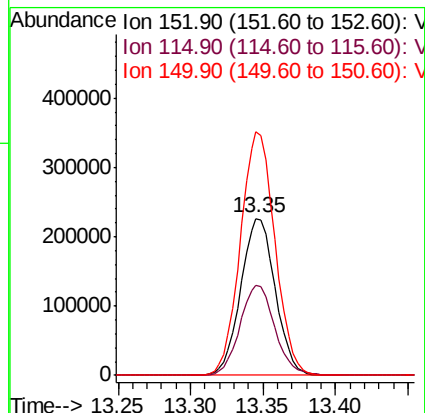
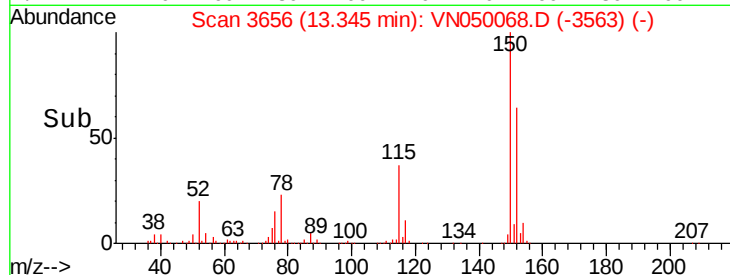
150 155.1 0.0 348.6



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



#80

1,3,5-Trimethylbenzene

Concen: 1.50 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050068.D

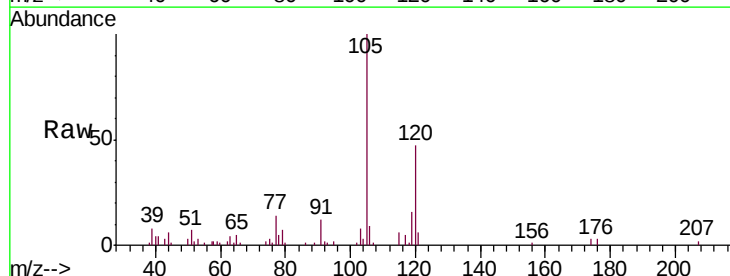
Acq: 26 Jul 2018 1:58

Tgt Ion:105 Resp: 34232

Ion Ratio Lower Upper

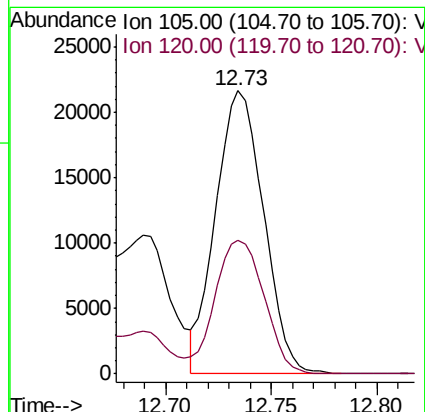
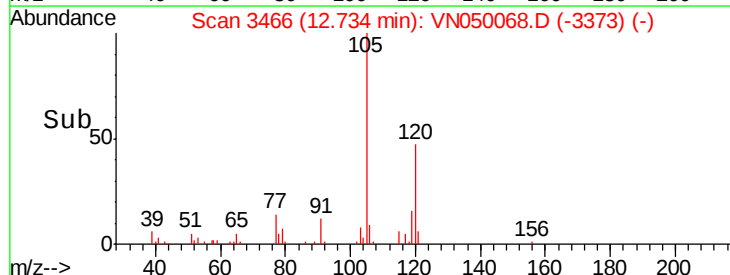
105 100

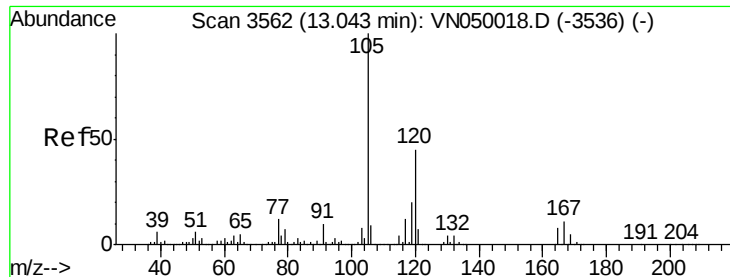
120 48.5 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

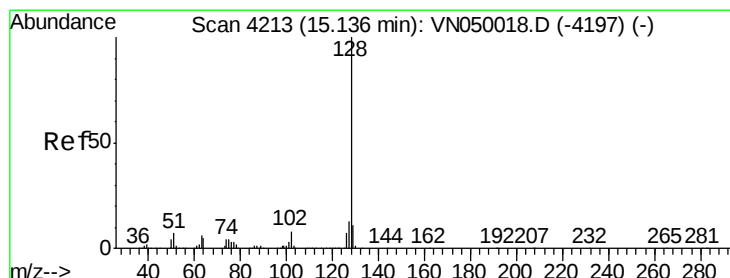
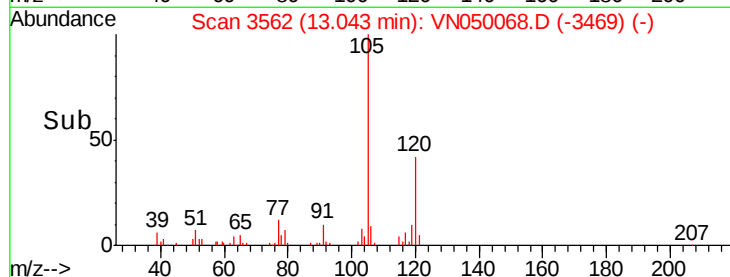
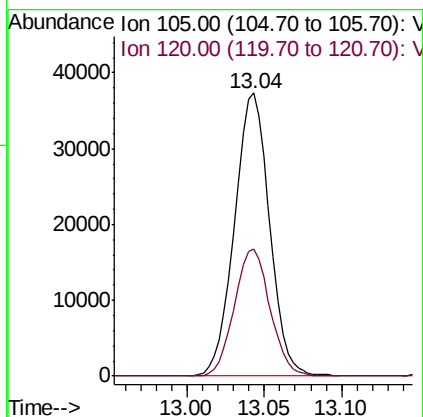
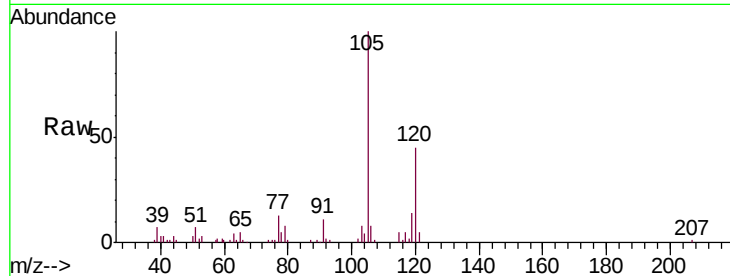




#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.55 ug/l  
 RT: 13.04 min Scan# 3562  
 Delta R.T. 0.00 min  
 Lab File: VN050068.D  
 Acq: 26 Jul 2018 1:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HR-06-072418-C

Tot Ion:105 Resp: 58711  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 22.9 68.7



#95  
 Naphthalene  
 Concen: 9.28 ug/l  
 RT: 15.14 min Scan# 4213  
 Delta R.T. 0.00 min  
 Lab File: VN050068.D  
 Acq: 26 Jul 2018 1:58

Tgt Ion:128 Resp: 91169  
 Ion Ratio Lower Upper  
 128 100  
 127 13.8 10.4 15.6  
 129 11.7 8.8 13.2

