

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\  
 Data File : VN050496.D  
 Acq On : 9 Aug 2018 19:35  
 Operator : MD\SY  
 Sample : J4271-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HR-05-080818-C

Quant Time: Aug 10 07:08:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 05:22:15 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 720471   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1152094  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1010734  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 410458   | 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   | 481990   | 50.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.14% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 441003   | 47.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 95.42%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1584815  | 45.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 91.20%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 468350   | 39.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 79.08%  |          |

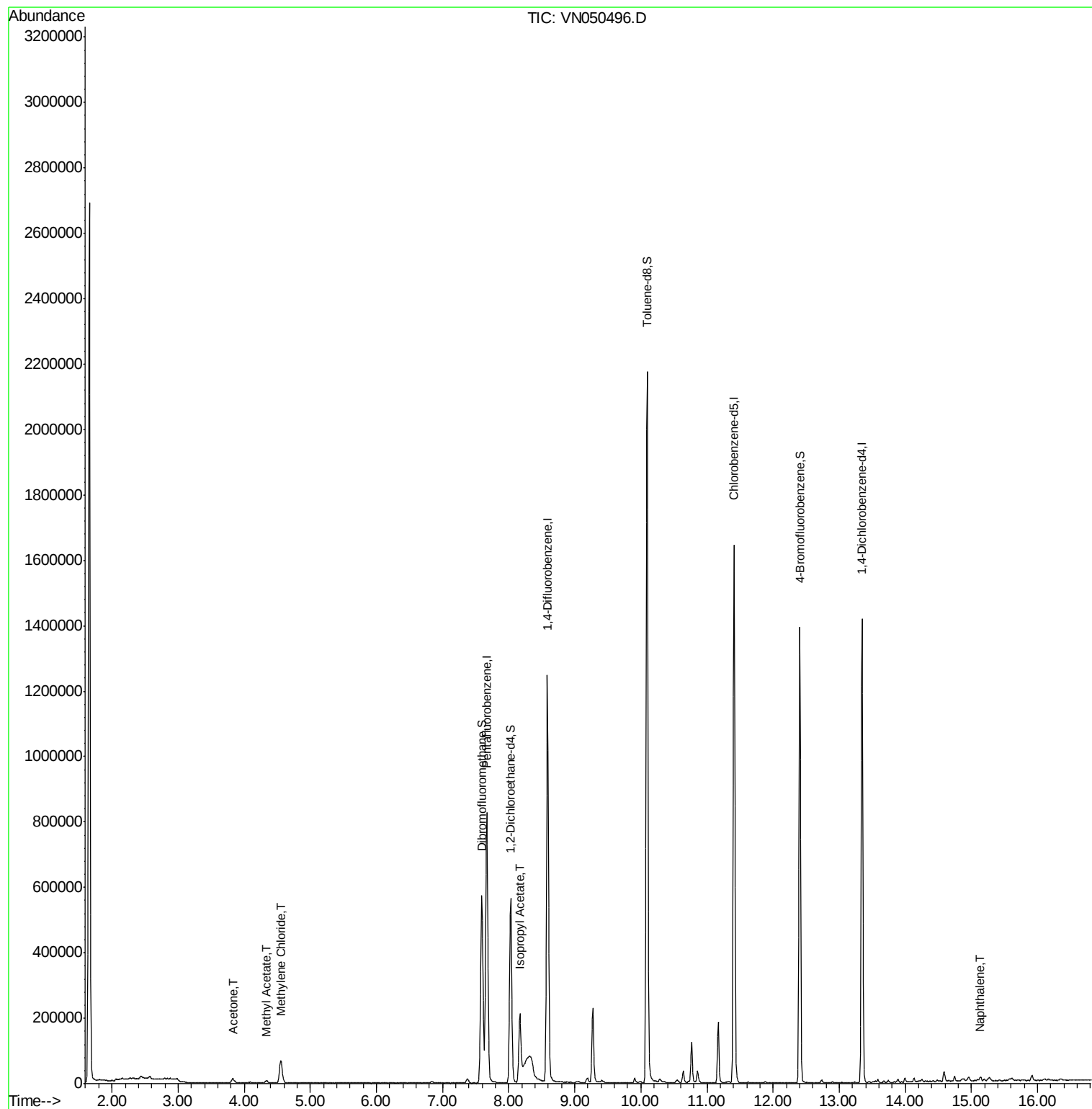
| Target Compounds       | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone            | 3.83  | 43   | 25098    | 8.39  | ug/l   | 98     |
| 18) Methyl Acetate     | 4.34  | 43   | 12634    | 1.51  | ug/l   | 96     |
| 20) Methylene Chloride | 4.55  | 84   | 53342    | 4.67  | ug/l   | 94     |
| 43) Isopropyl Acetate  | 8.17  | 43   | 257523   | 16.36 | ug/l   | 99     |
| 95) Naphthalene        | 15.14 | 128  | 11440    | 4.15  | ug/l # | 94     |

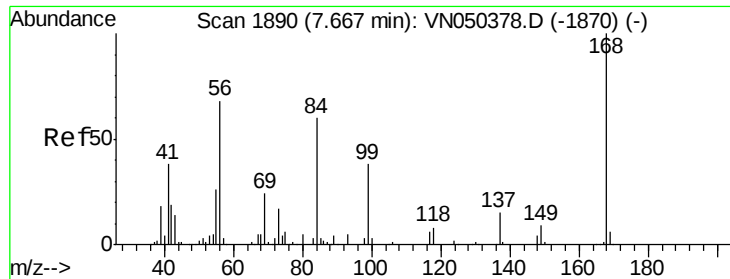
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Aug 07 05:22:15 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: VN050496.D

Acq: 9 Aug 2018 19:35

Instrument :

MSVOA\_N

ClientSampleId :

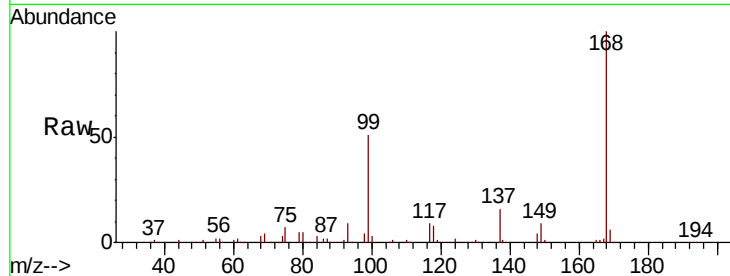
HR-05-080818-C

Tot Ion:168 Resp: 720471

Ion Ratio Lower Upper

168 100

99 50.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.67

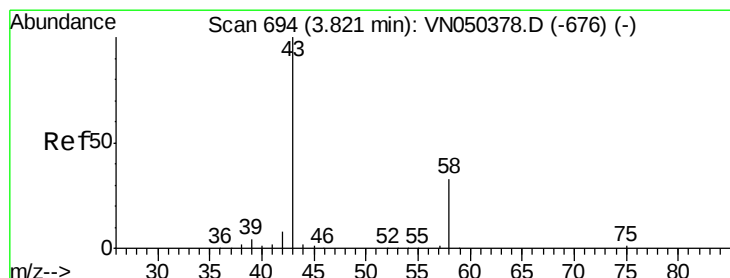
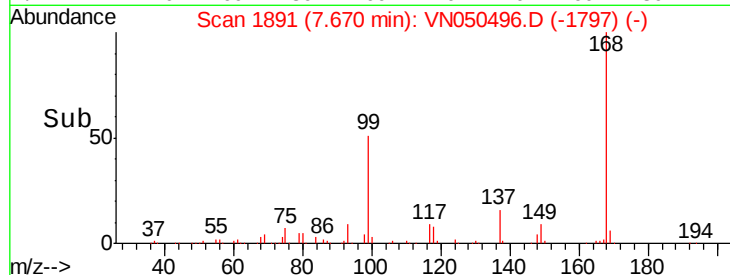
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 8.39 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050496.D

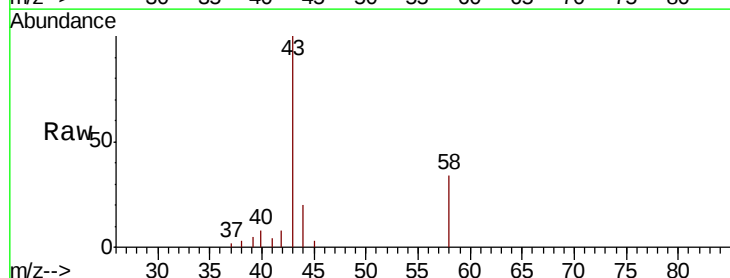
Acq: 9 Aug 2018 19:35

Tgt Ion: 43 Resp: 25098

Ion Ratio Lower Upper

43 100

58 33.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-676) (-)

Ion 58.00 (57.70 to 58.70): VN050378.D (-676) (-)

3.83

10000

8000

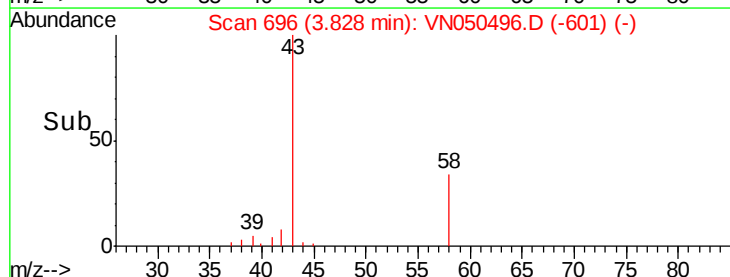
6000

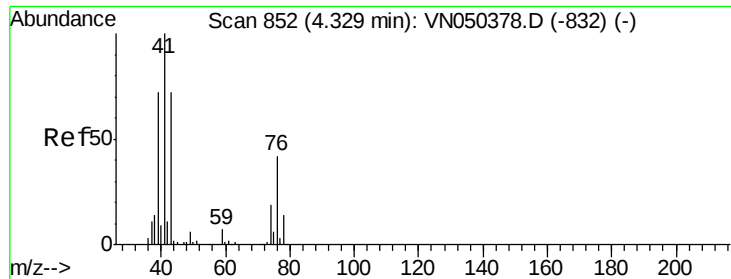
4000

2000

0

Time-->

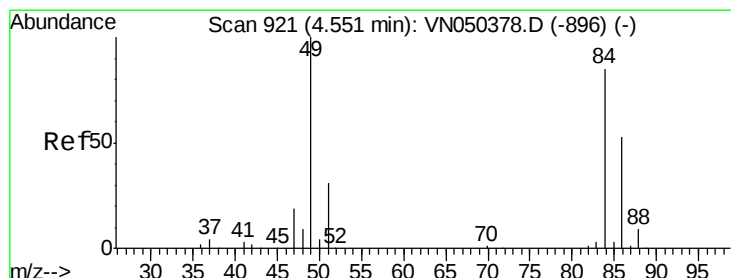
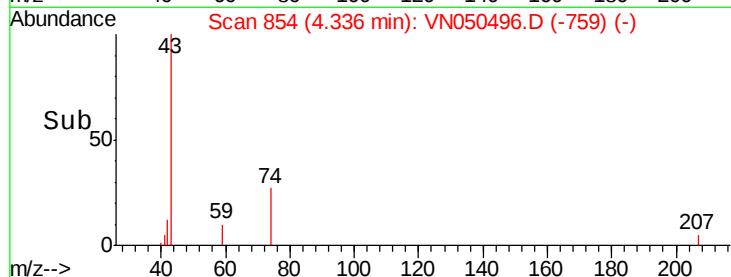
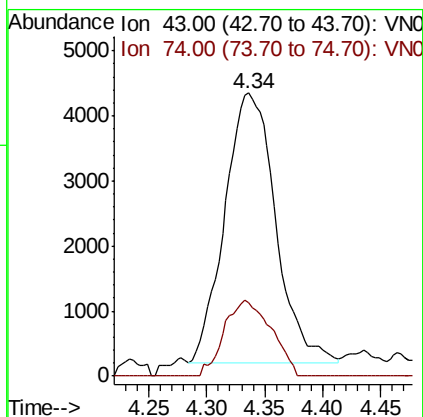
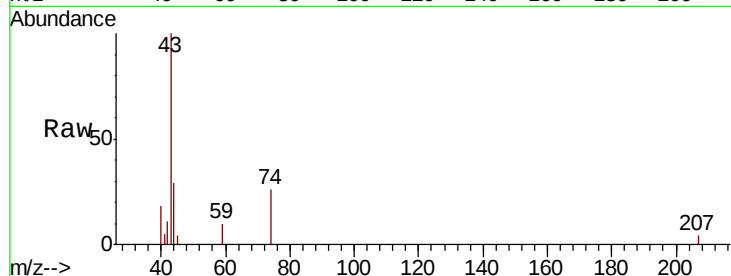




#18  
Methyl Acetate  
Concen: 1.51 ug/l  
RT: 4.34 min Scan# 854  
Delta R.T. 0.01 min  
Lab File: VN050496.D  
Acq: 9 Aug 2018 19:35

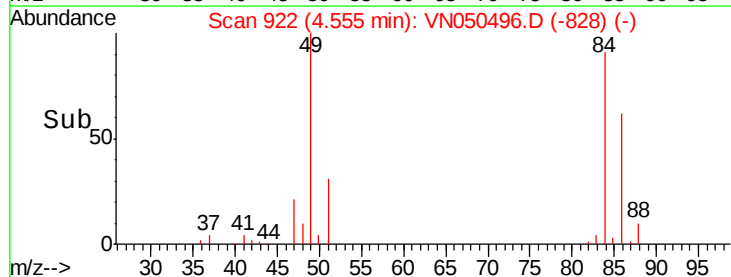
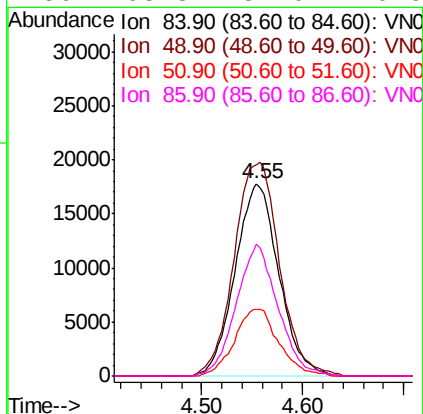
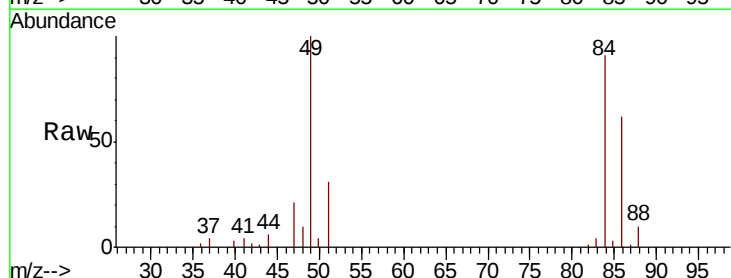
Instrument :  
MSVOA\_N  
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HR-05-080818-C

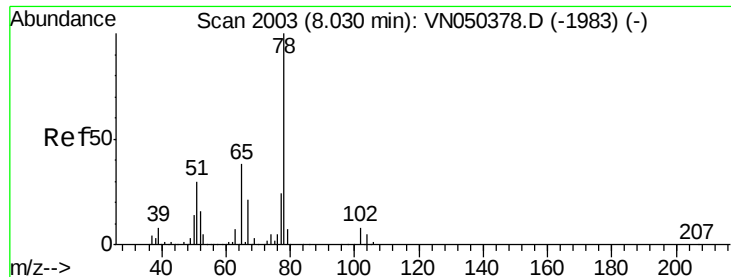
Tot Ion: 43 Resp: 12634  
Ion Ratio Lower Upper  
43 100  
74 26.0 19.2 28.8



#20  
Methylene Chloride  
Concen: 4.67 ug/l  
RT: 4.55 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VN050496.D  
Acq: 9 Aug 2018 19:35

Tgt Ion: 84 Resp: 53342  
Ion Ratio Lower Upper  
84 100  
49 110.1 94.8 142.2  
51 34.7 28.3 42.5  
86 68.3 51.0 76.6





#33

1,2-Dichloroethane-d4

Concen: 50.07 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050496.D

Acq: 9 Aug 2018 19:35

Instrument :

MSVOA\_N

ClientSampleId :

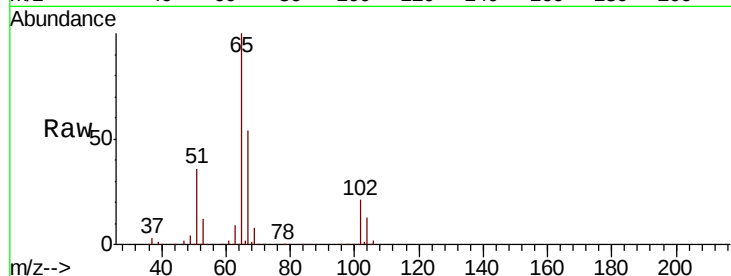
HR-05-080818-C

Tot Ion: 65 Resp: 481990

Ion Ratio Lower Upper

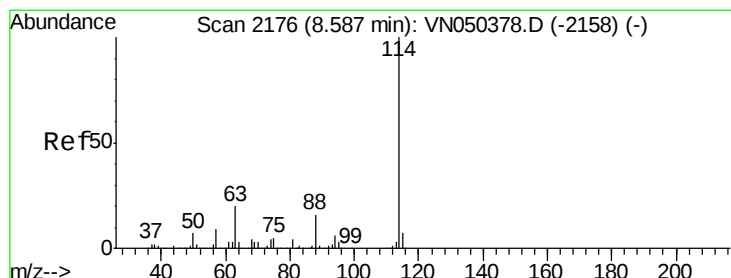
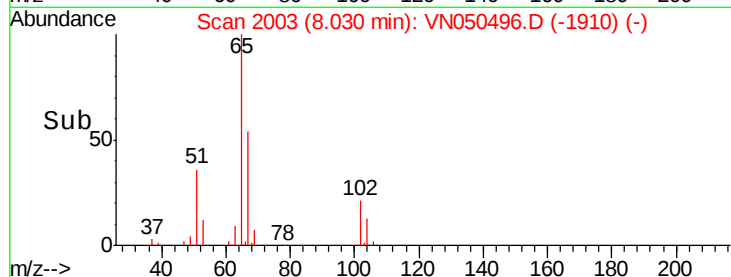
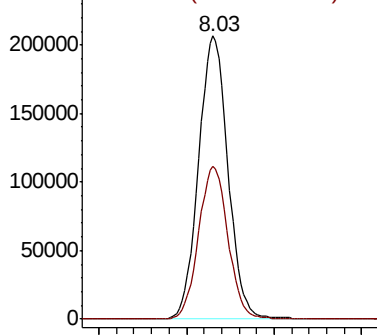
65 100

67 54.0 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN050496.D

Acq: 9 Aug 2018 19:35

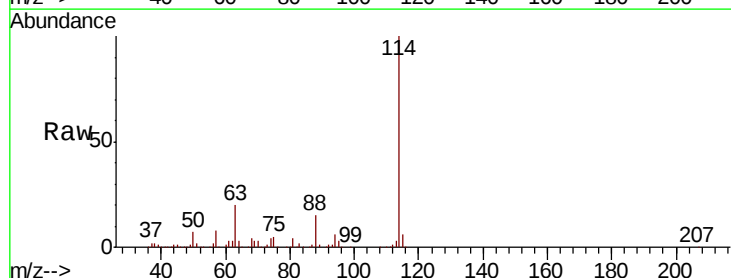
Tgt Ion: 114 Resp: 1152094

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

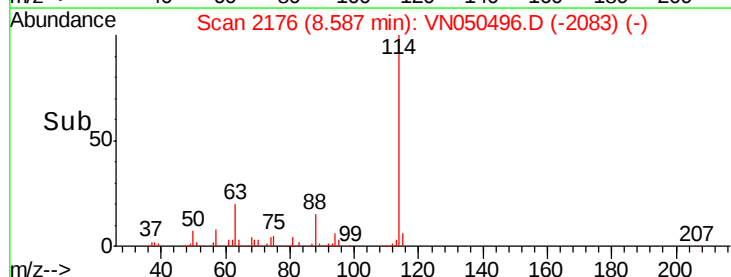
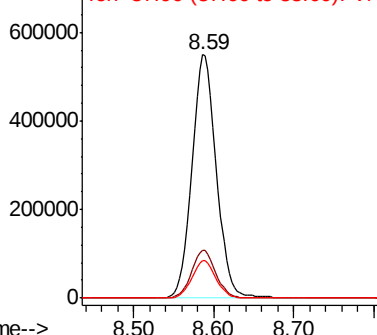
88 15.4 0.0 31.2

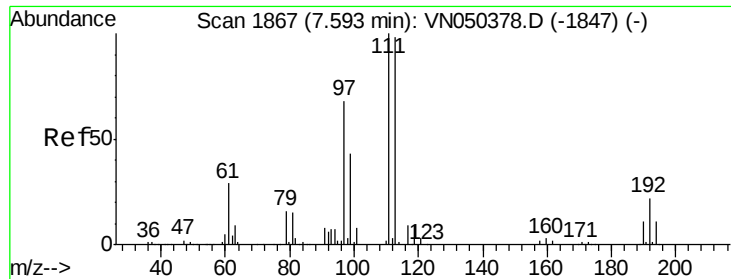


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

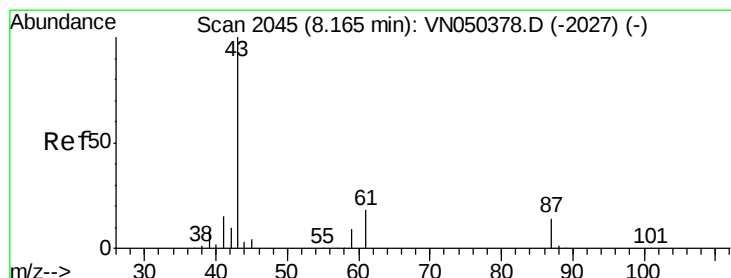
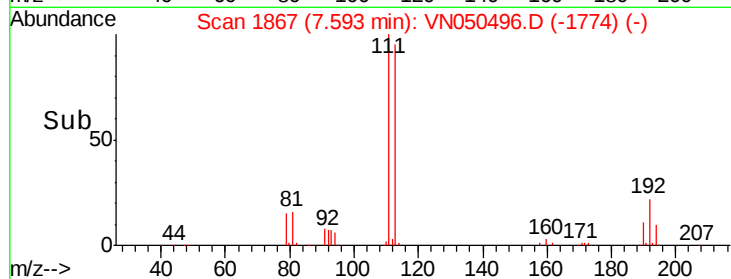
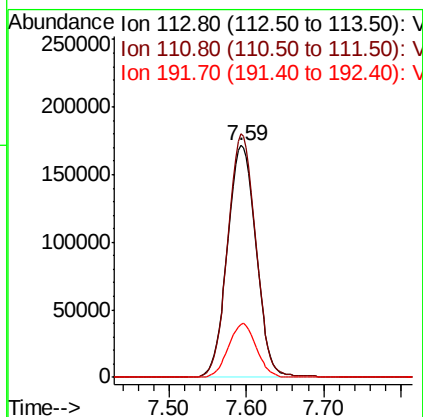
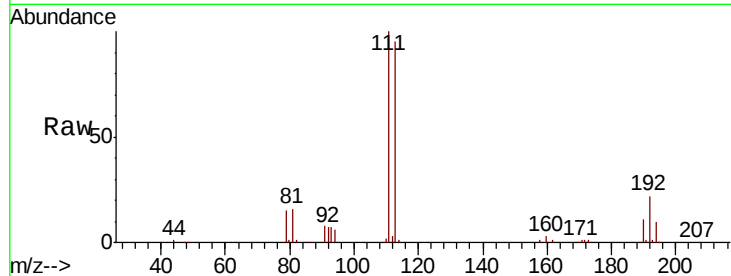




#35  
 Dibromofluoromethane  
 Concen: 47.71 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN050496.D  
 Acq: 9 Aug 2018 19:35

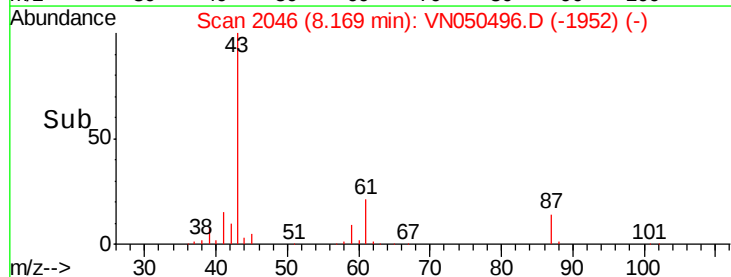
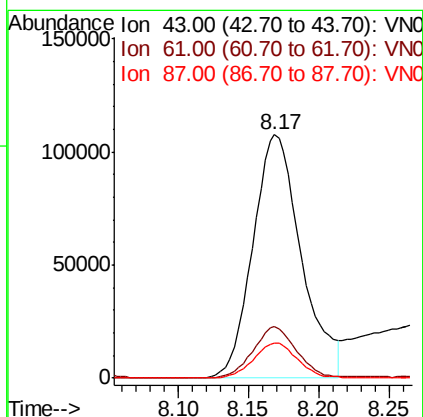
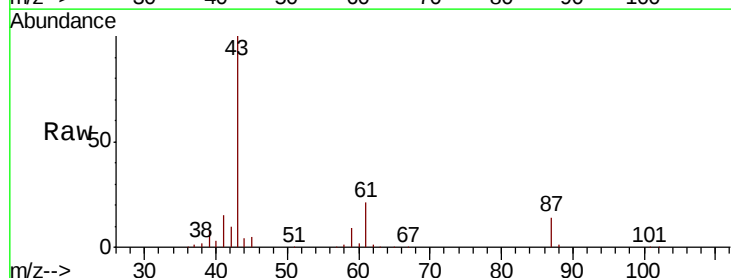
Instrument :  
 MSVOA\_N  
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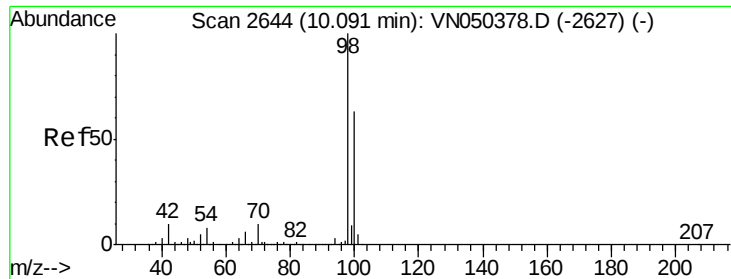
Tot Ion:113 Resp: 441003  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 80.7 121.1  
 192 22.6 17.8 26.6



#43  
 Isopropyl Acetate  
 Concen: 16.36 ug/l  
 RT: 8.17 min Scan# 2046  
 Delta R.T. 0.00 min  
 Lab File: VN050496.D  
 Acq: 9 Aug 2018 19:35

Tgt Ion: 43 Resp: 257523  
 Ion Ratio Lower Upper  
 43 100  
 61 19.2 15.8 23.6  
 87 13.1 10.3 15.5





#50

Toluene-d8

Concen: 45.60 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050496.D

Acq: 9 Aug 2018 19:35

Instrument :

MSVOA\_N

ClientSampleId :

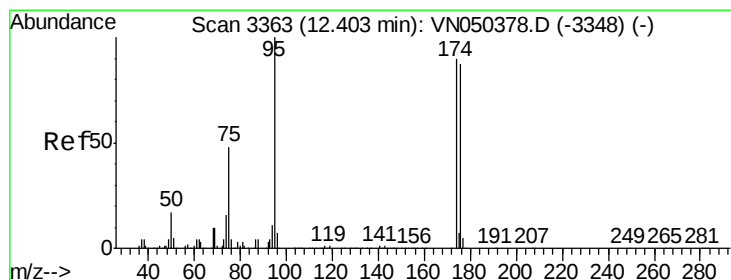
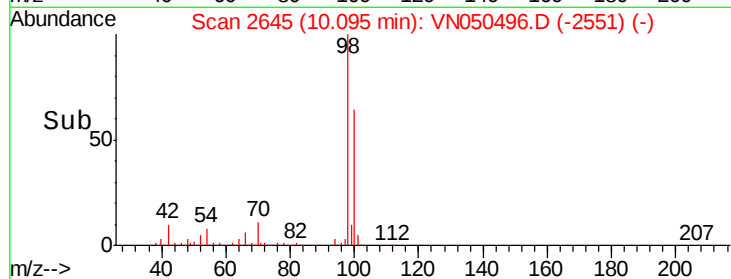
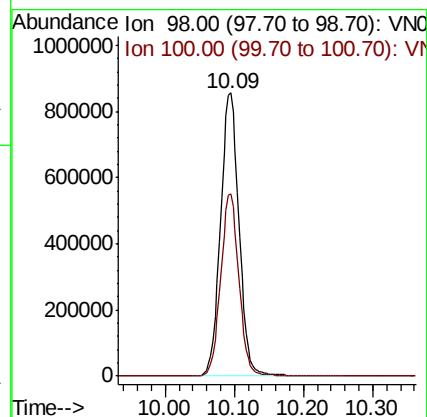
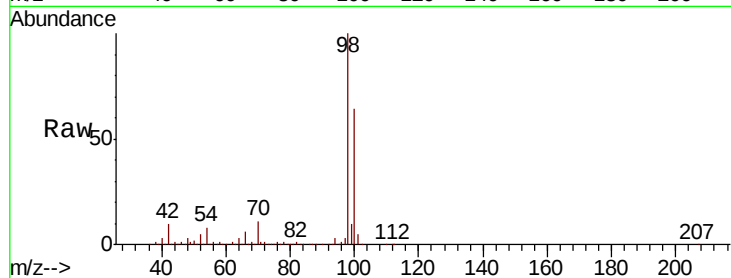
HR-05-080818-C

Tot Ion: 98 Resp: 1584815

Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1



#62

4-Bromofluorobenzene

Concen: 39.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050496.D

Acq: 9 Aug 2018 19:35

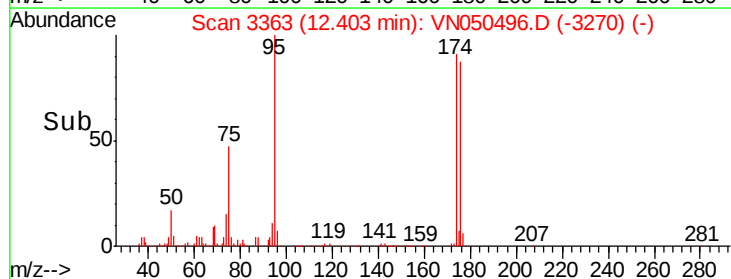
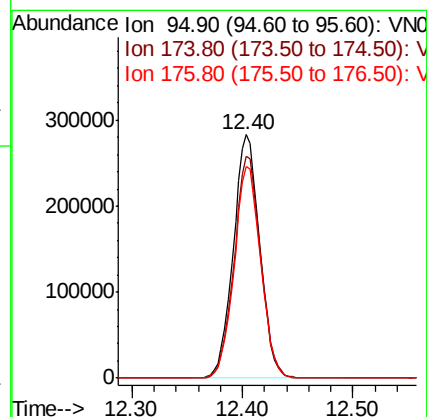
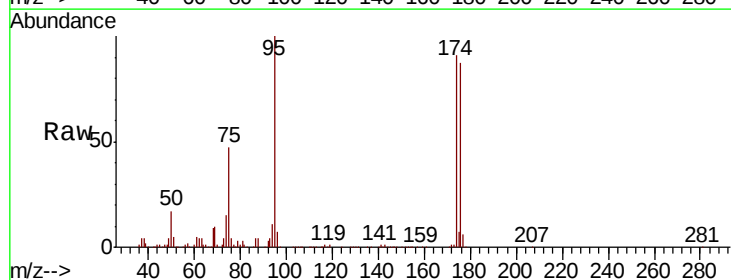
Tgt Ion: 95 Resp: 468350

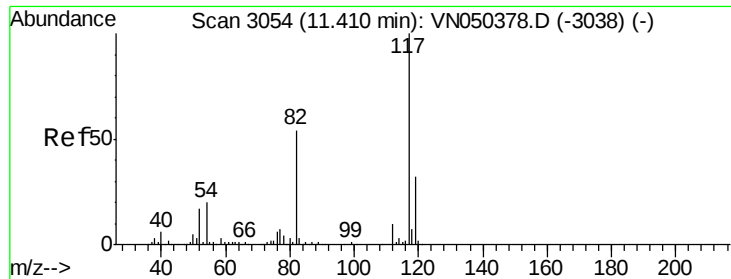
Ion Ratio Lower Upper

95 100

174 91.8 0.0 178.2

176 87.6 0.0 173.4

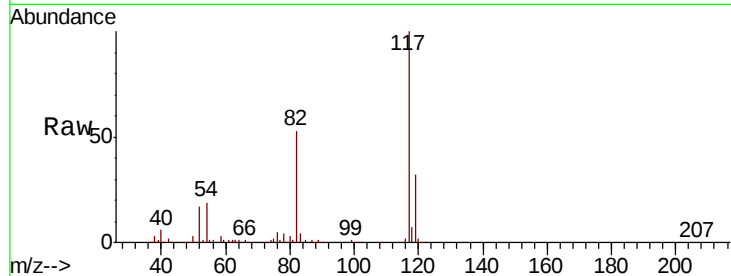




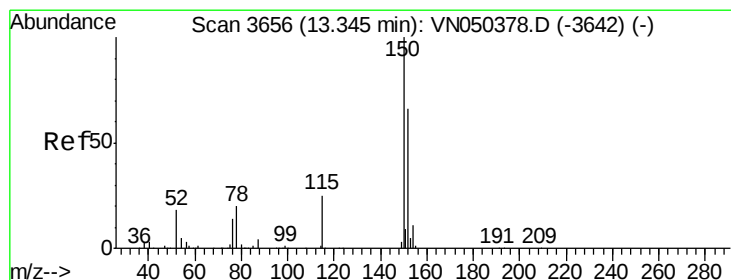
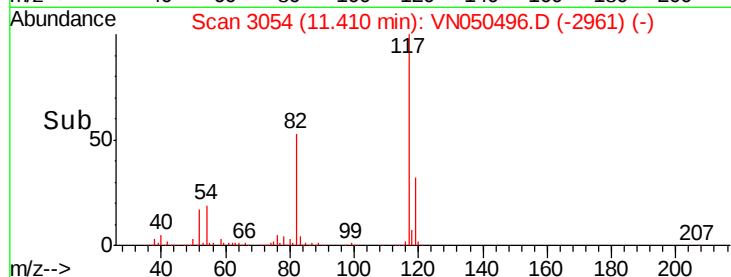
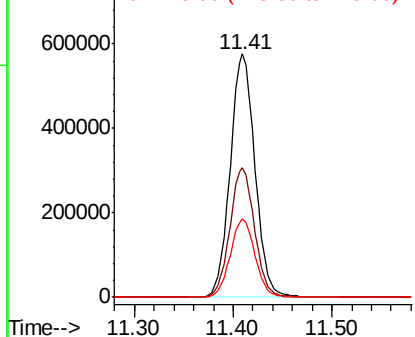
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050496.D  
Acq: 9 Aug 2018 19:35

Instrument :  
MSVOA\_N  
ClientSampleId :  
HR-05-080818-C

Tot Ion:117 Resp: 1010734  
Ion Ratio Lower Upper  
117 100  
82 53.1 43.7 65.5  
119 32.0 26.1 39.1

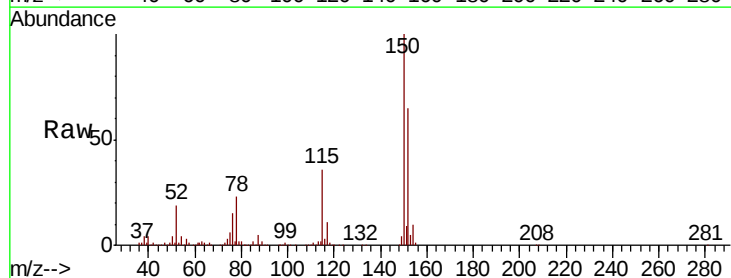


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

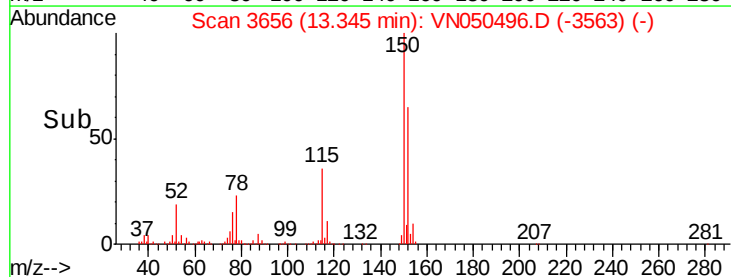
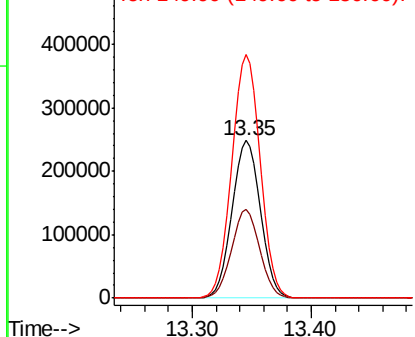


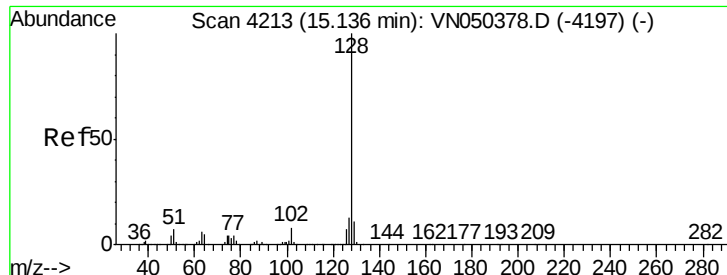
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3656  
Delta R.T. 0.00 min  
Lab File: VN050496.D  
Acq: 9 Aug 2018 19:35

Tgt Ion:152 Resp: 410458  
Ion Ratio Lower Upper  
152 100  
115 55.9 27.8 83.3  
150 154.9 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





#95

Naphthalene

Concen: 4.15 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050496.D

Acq: 9 Aug 2018 19:35

Instrument :

MSVOA\_N

ClientSampleId :

HR-05-080818-C

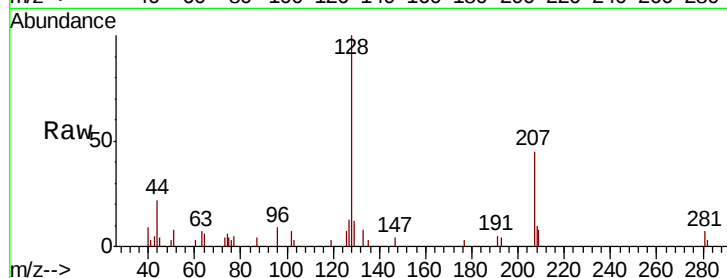
Tot Ion:128 Resp: 11440

Ion Ratio Lower Upper

128 100

127 8.9 10.4 15.6#

129 11.1 8.8 13.2



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

