

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\  
 Data File : VN049878.D  
 Acq On : 18 Jul 2018 17:37  
 Operator : MD\SY  
 Sample : PB111206ZHE#10  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 19 01:20:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 18 13:09:48 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 584070   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 961223   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 812354   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 313564   | 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   | 411367   | 51.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.48% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 361287   | 44.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.54%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1292772  | 43.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.94%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 359417   | 35.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 71.00%  |          |

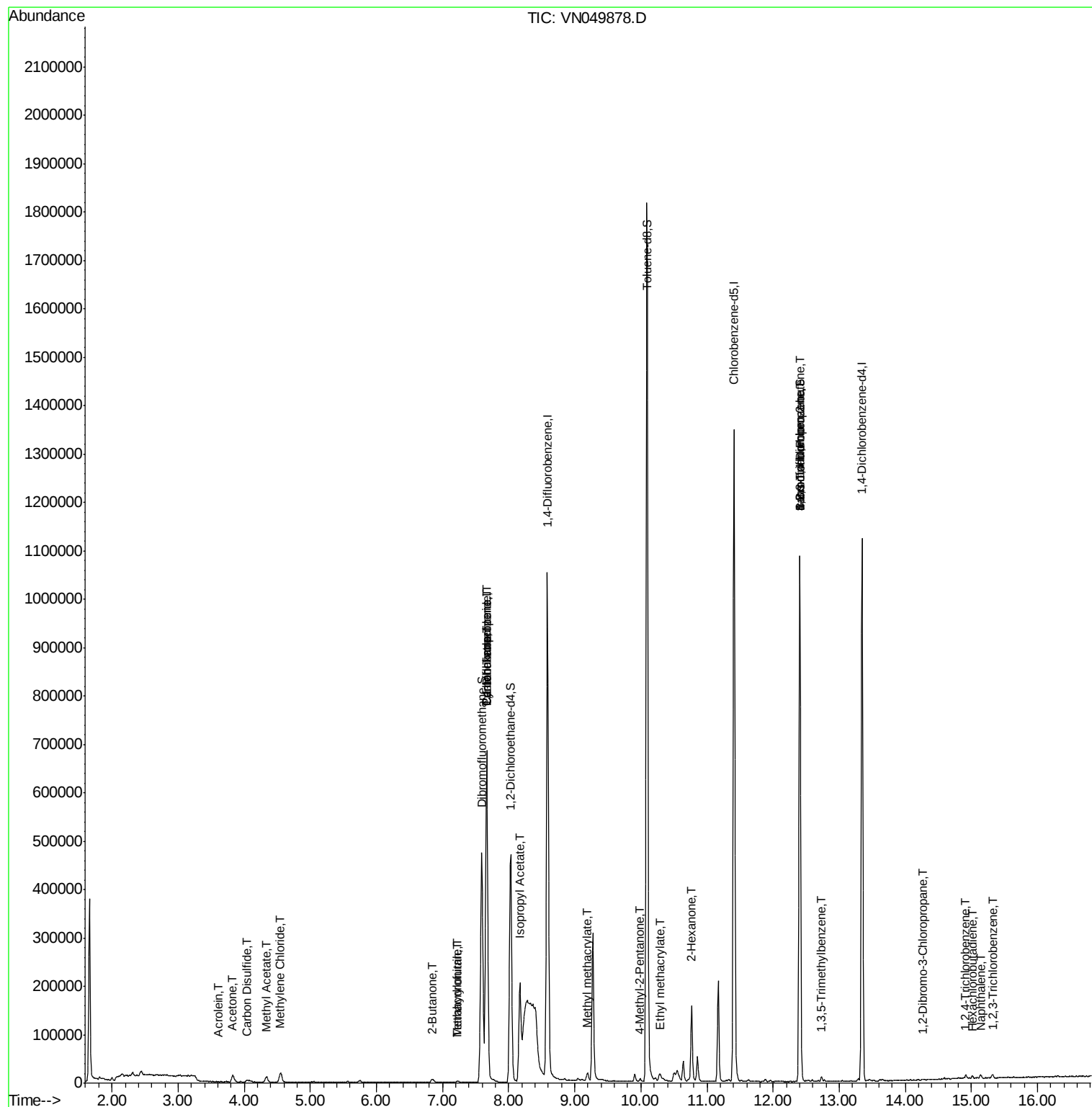
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.85  | 85   | 421      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.57  | 94   | 1125     | Below Cal |        | 95     |
| 13) Acrolein                   | 3.61  | 56   | 483      | 1.31      | ug/l # | 71     |
| 16) Acetone                    | 3.83  | 43   | 24665    | 11.87     | ug/l   | 97     |
| 17) Carbon Disulfide           | 4.04  | 76   | 6257     | 0.33      | ug/l # | 95     |
| 18) Methyl Acetate             | 4.34  | 43   | 20921    | 2.42      | ug/l   | 94     |
| 20) Methylene Chloride         | 4.55  | 84   | 13525    | 1.71      | ug/l   | 94     |
| 25) 2-Butanone                 | 6.85  | 43   | 5571     | 1.88      | ug/l   | 95     |
| 29) Tetrahydrofuran            | 7.22  | 42   | 911      | 0.49      | ug/l # | 84     |
| 31) Cyclohexane                | 7.67  | 56   | 11669    | 1.09      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 40607    | 3.80      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 54040    | 4.72      | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.22  | 41   | 1126     | 0.31      | ug/l # | 31     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 253573   | 19.78     | ug/l   | 99     |
| 48) Methyl methacrylate        | 9.18  | 41   | 8767     | 1.36      | ug/l # | 23     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 2840     | 0.40      | ug/l   | 91     |
| 56) Ethyl methacrylate         | 10.28 | 69   | 96       | 2.17      | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.77 | 43   | 22560    | 4.69      | ug/l # | 61     |
| 71) Bromoform                  | 12.40 | 173  | 2272     | 0.40      | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 179225   | 30.47     | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 4599     | 0.24      | ug/l   | 92     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 179225   | 95.28     | ug/l # | 13     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75   | 550      | 0.50      | ug/l # | 1      |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 2441     | 3.84      | ug/l   | 89     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 1208     | 0.33      | ug/l   | 100    |
| 95) Naphthalene                | 15.14 | 128  | 6305     | 4.88      | ug/l   | 99     |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 2902     | 0.54      | ug/l   | 96     |

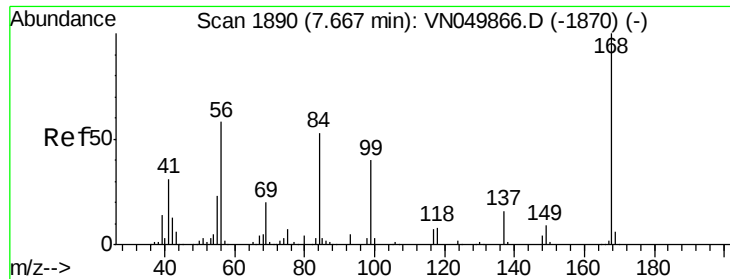
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N071818W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 18 13:09:48 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

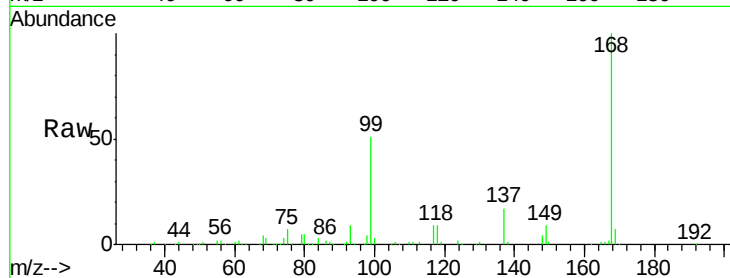
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:168 Resp: 584070

Ion Ratio Lower Upper

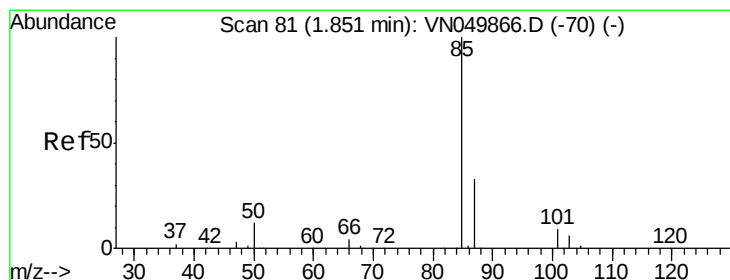
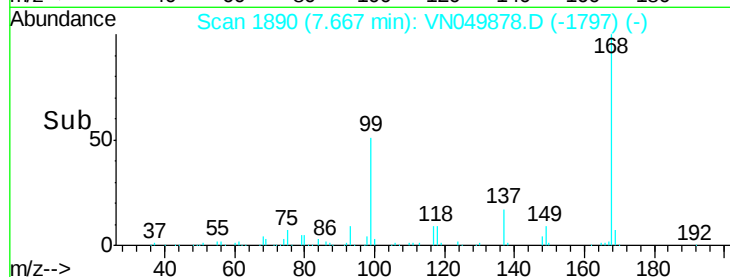
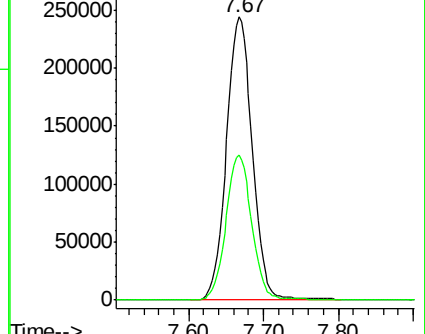
168 100

99 51.1 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049878.D

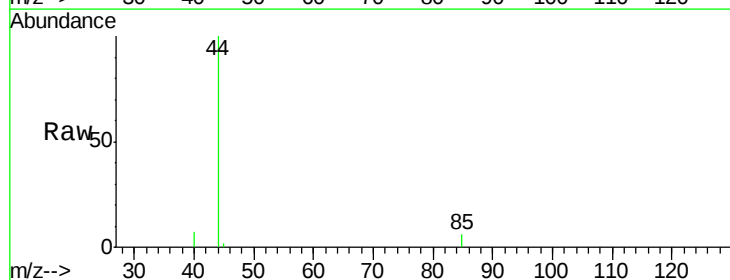
Acq: 18 Jul 2018 17:37

Tgt Ion: 85 Resp: 421

Ion Ratio Lower Upper

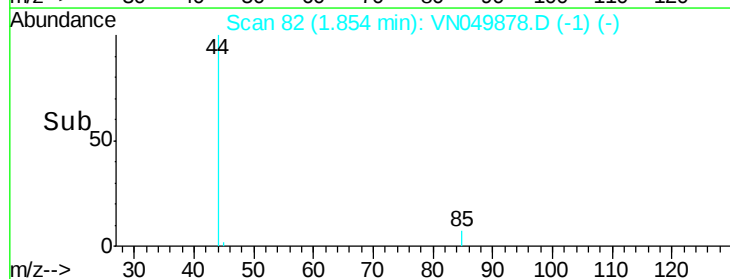
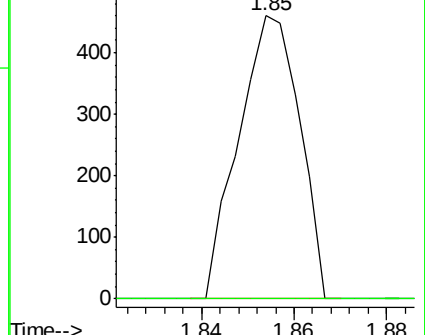
85 100

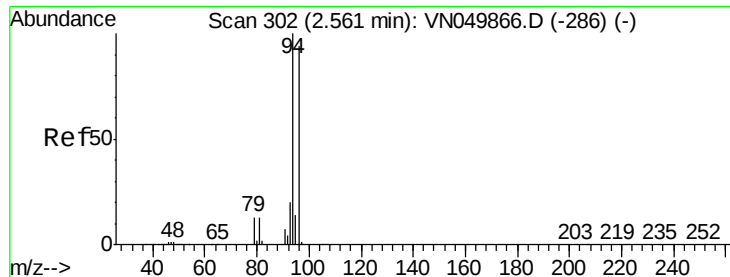
87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

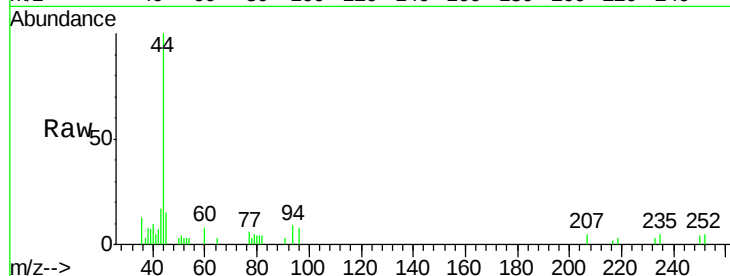
ClientSampled :

Tot Ion: 94 Resp: 1125

Ion Ratio Lower Upper

94 100

96 89.9 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

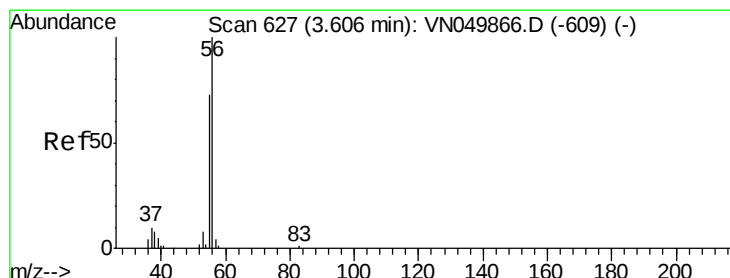
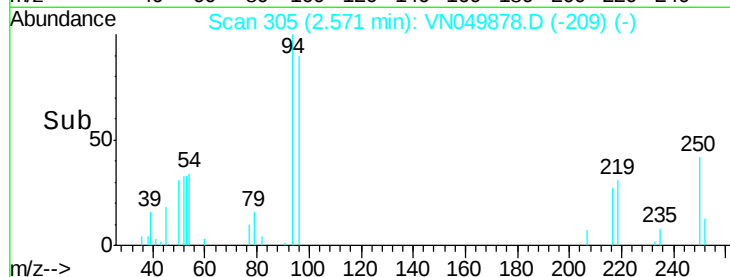
2.57

400

200

0

Time--> 2.52 2.54 2.56 2.58 2.60



#13

Acrolein

Concen: 1.31 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049878.D

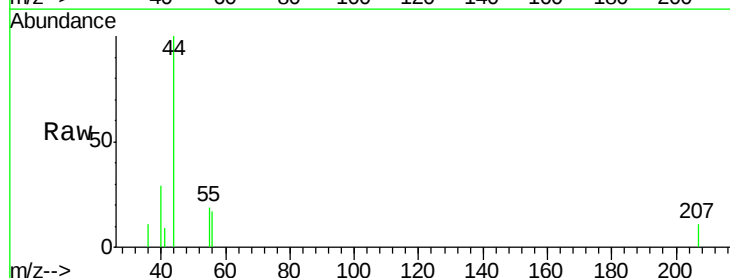
Acq: 18 Jul 2018 17:37

Tgt Ion: 56 Resp: 483

Ion Ratio Lower Upper

56 100

55 46.4 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

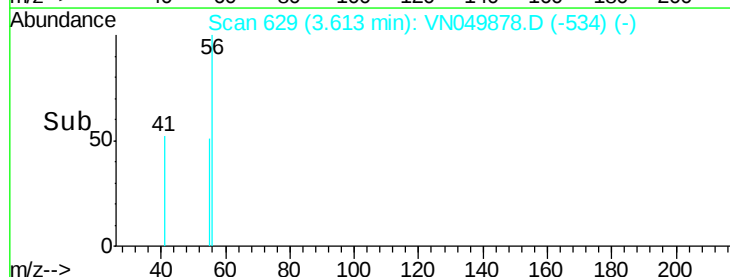
300

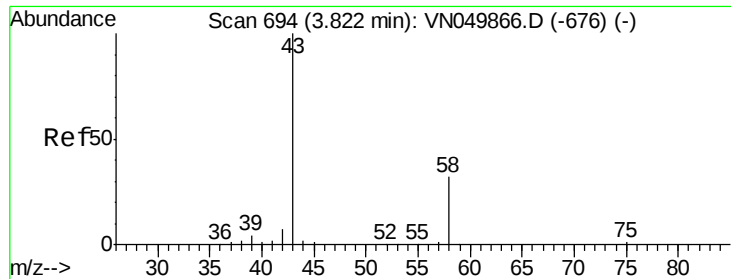
200

100

0

Time--> 3.58 3.60 3.62 3.64





#16

Acetone

Concen: 11.87 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

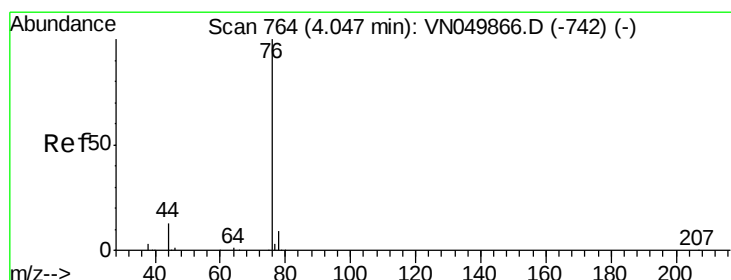
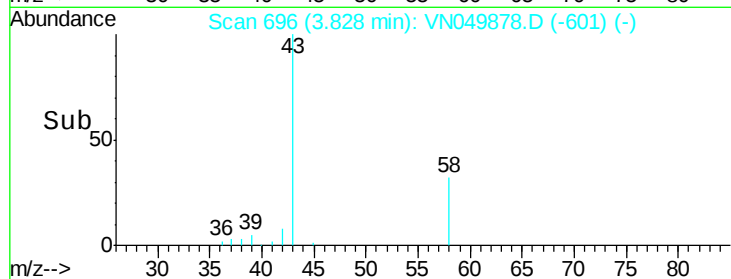
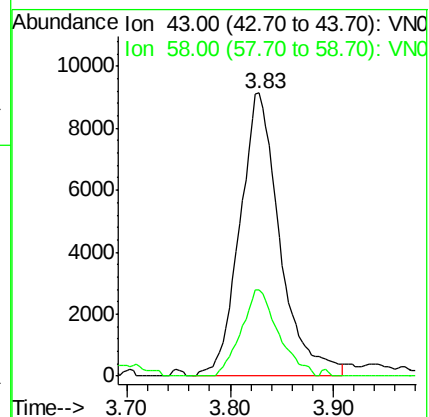
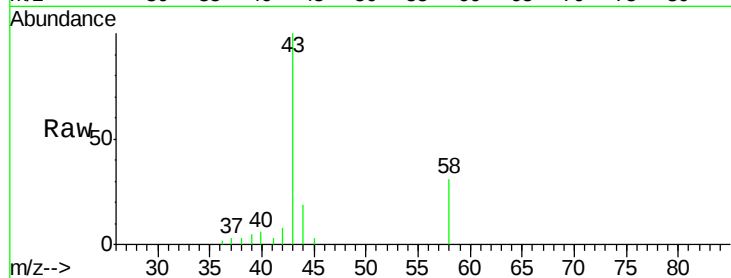
ClientSampled :

Tot Ion: 43 Resp: 24665

Ion Ratio Lower Upper

43 100

58 30.7 25.9 38.9



#17

Carbon Disulfide

Concen: 0.33 ug/l

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049878.D

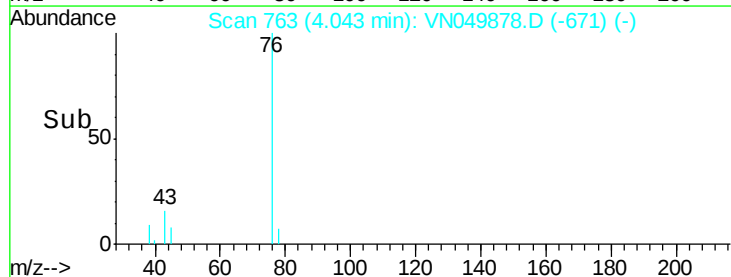
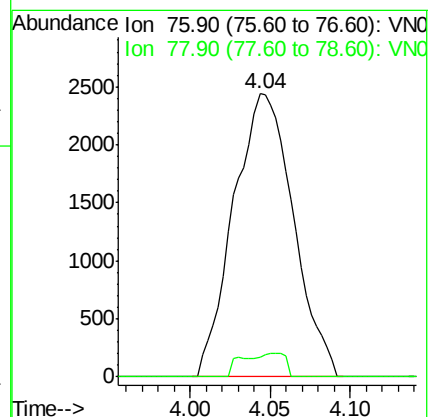
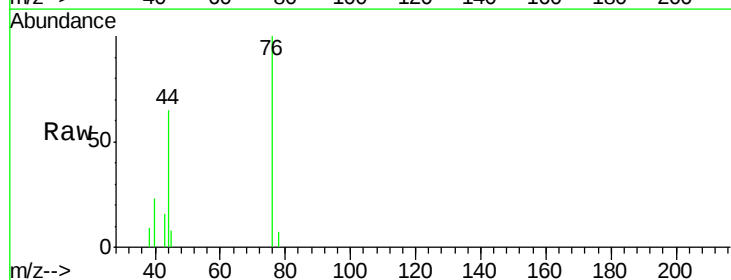
Acq: 18 Jul 2018 17:37

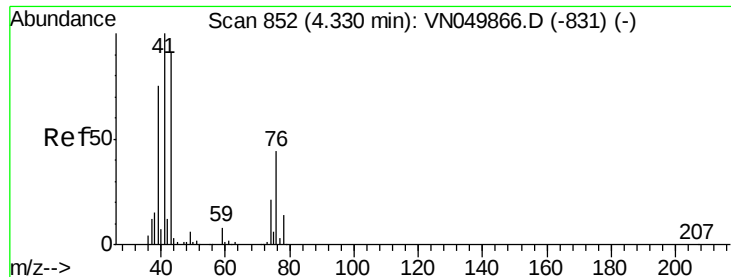
Tgt Ion: 76 Resp: 6257

Ion Ratio Lower Upper

76 100

78 7.1 7.1 10.7#





#18

Methyl Acetate

Concen: 2.42 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

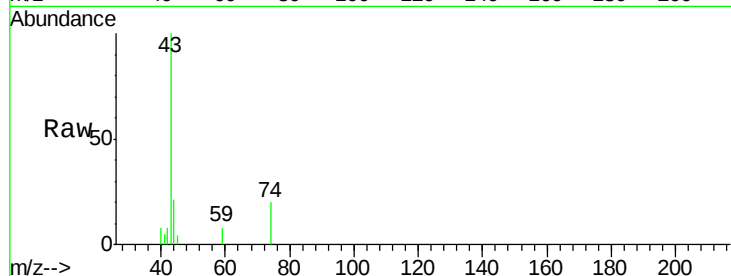
ClientSampleId :

Tot Ion: 43 Resp: 20921

Ion Ratio Lower Upper

43 100

74 21.9 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-831) (-)

Ion 74.00 (73.70 to 74.70): VN049866.D (-831) (-)

4.34

8000

6000

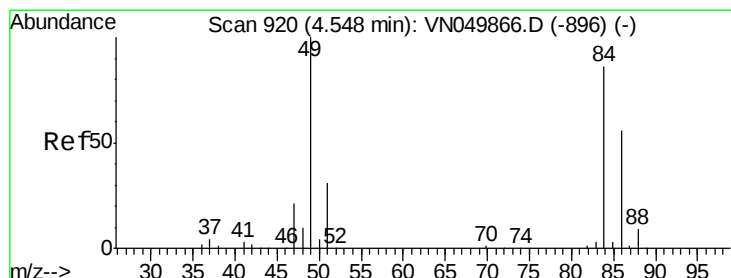
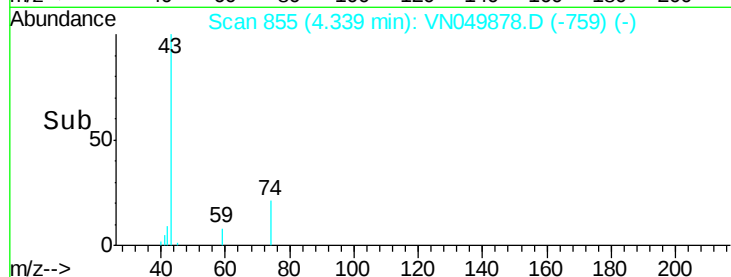
4000

2000

0

4.25 4.30 4.35 4.40 4.45

Time-->



#20

Methylene Chloride

Concen: 1.71 ug/l

RT: 4.55 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Tgt Ion: 84 Resp: 13525

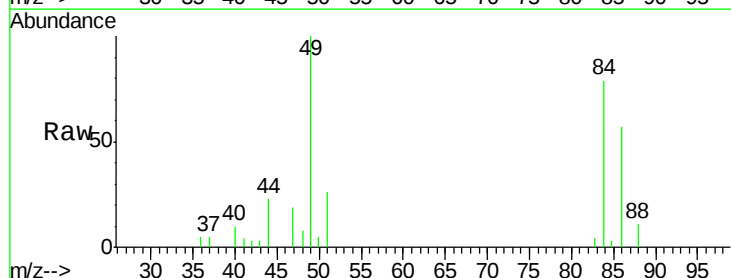
Ion Ratio Lower Upper

84 100

49 126.0 95.4 143.2

51 32.2 28.4 42.6

86 71.7 52.6 79.0



Abundance Ion 83.90 (83.60 to 84.60): VN049866.D (-896) (-)

Ion 48.90 (48.60 to 49.60): VN049866.D (-896) (-)

Ion 50.90 (50.60 to 51.60): VN049866.D (-896) (-)

Ion 85.90 (85.60 to 86.60): VN049866.D (-896) (-)

4.55

8000

6000

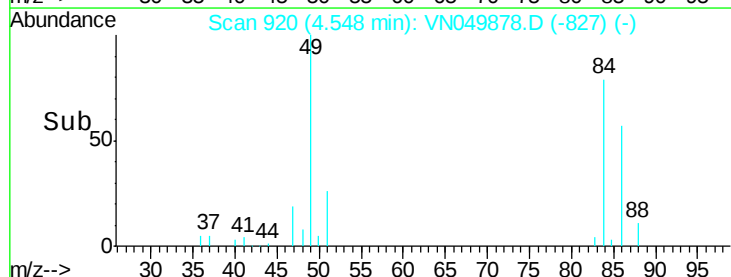
4000

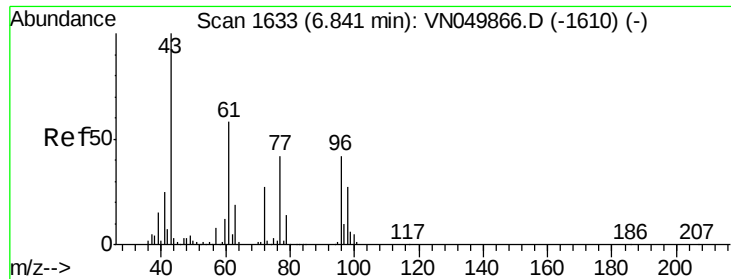
2000

0

4.45 4.50 4.55 4.60 4.65

Time-->

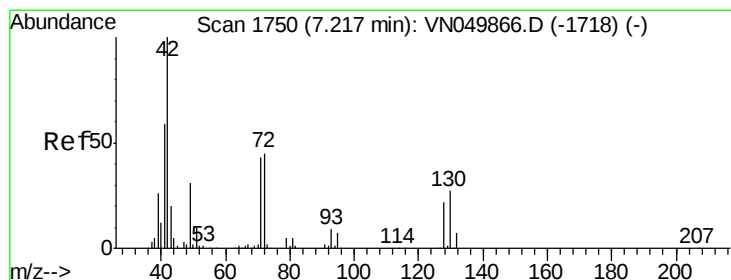
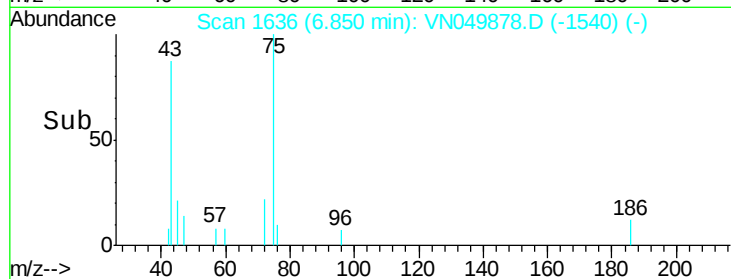
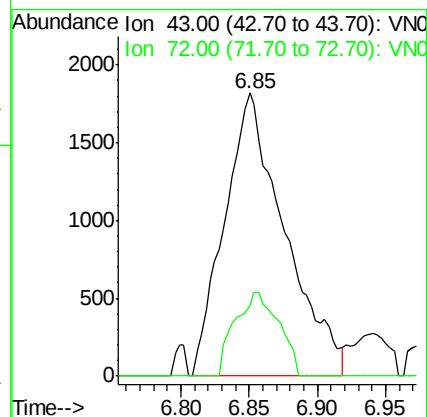
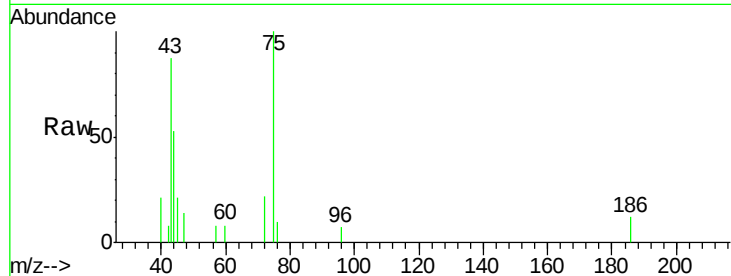




#25  
2-Butanone  
Concen: 1.88 ug/l  
RT: 6.85 min Scan# 1636  
Delta R.T. 0.01 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

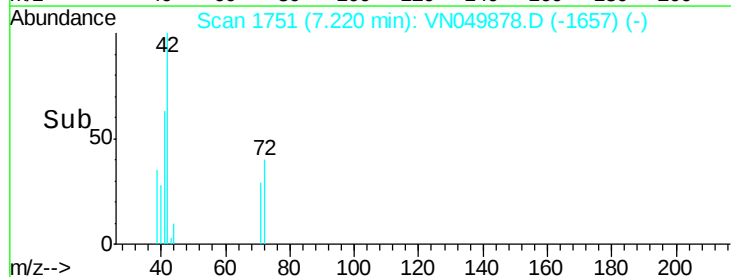
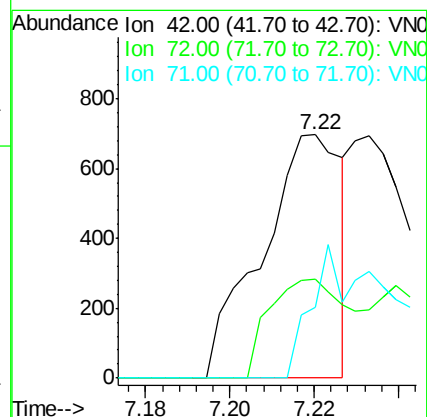
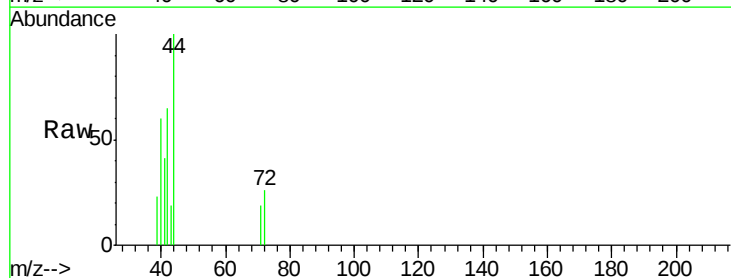
Instrument :  
MSVOA\_N  
ClientSampled :

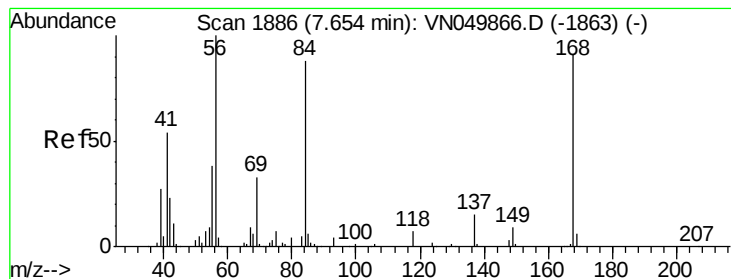
Tot Ion: 43 Resp: 5571  
Ion Ratio Lower Upper  
43 100  
72 25.1 22.1 33.1



#29  
Tetrahydrofuran  
Concen: 0.49 ug/l  
RT: 7.22 min Scan# 1751  
Delta R.T. 0.00 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

Tgt Ion: 42 Resp: 911  
Ion Ratio Lower Upper  
42 100  
72 39.1 35.6 53.4  
71 26.7 34.0 51.0#





#31

Cyclohexane

Concen: 1.09 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

ClientSampled :

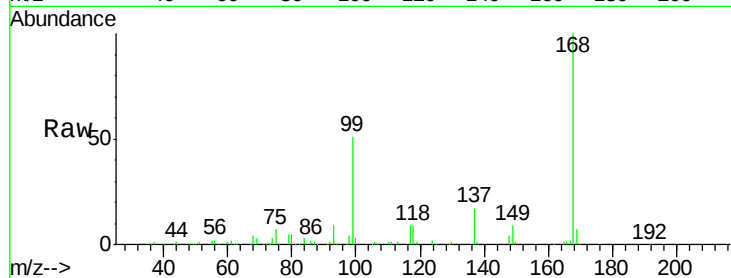
Tot Ion: 56 Resp: 11669

Ion Ratio Lower Upper

56 100

69 180.2 26.6 40.0#

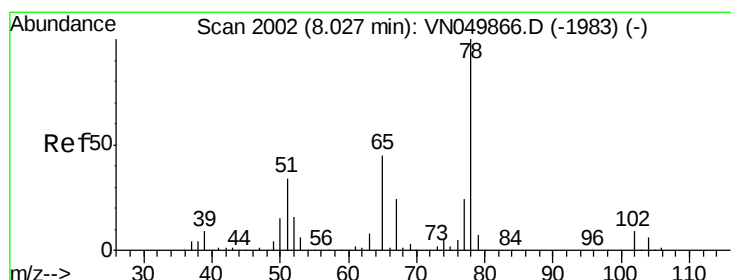
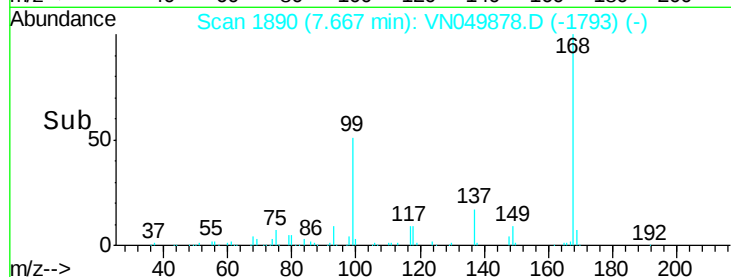
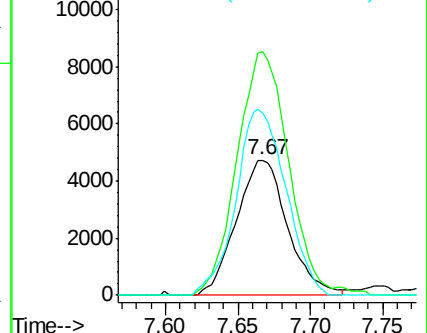
84 134.5 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.24 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. 0.00 min

Lab File: VN049878.D

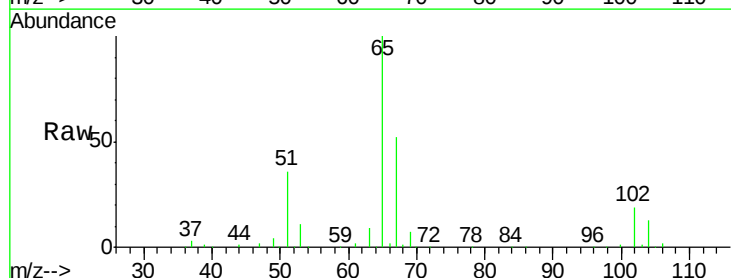
Acq: 18 Jul 2018 17:37

Tgt Ion: 65 Resp: 411367

Ion Ratio Lower Upper

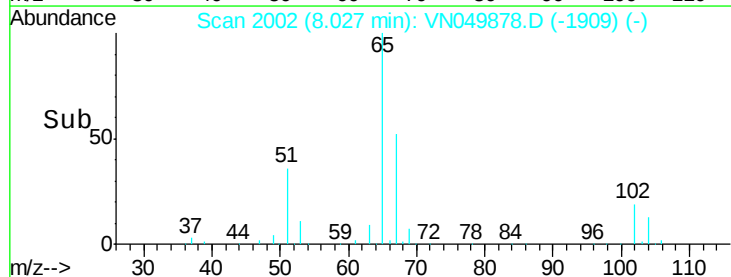
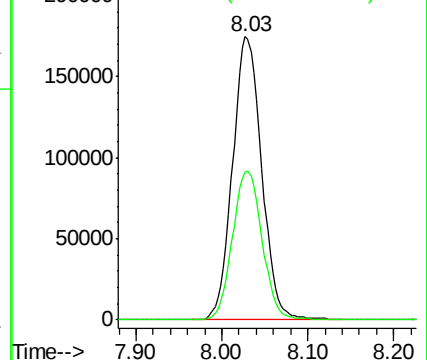
65 100

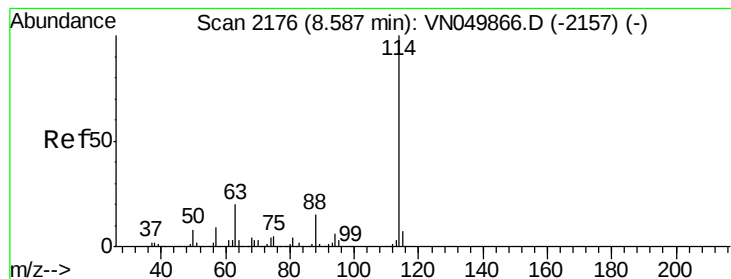
67 53.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

ClientSampled :

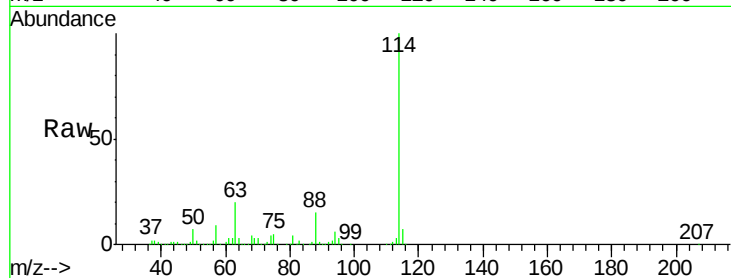
Tot Ion:114 Resp: 961223

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.8

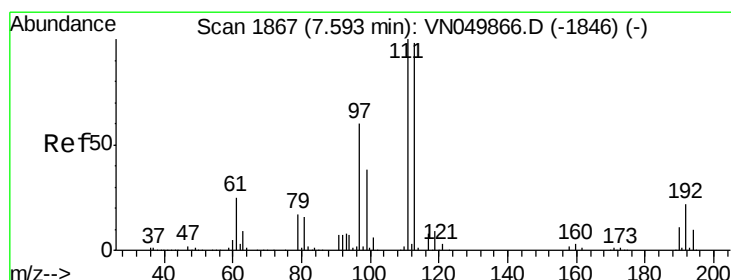
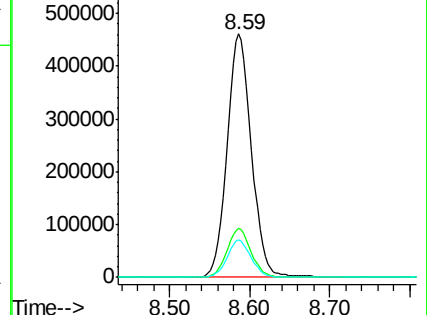
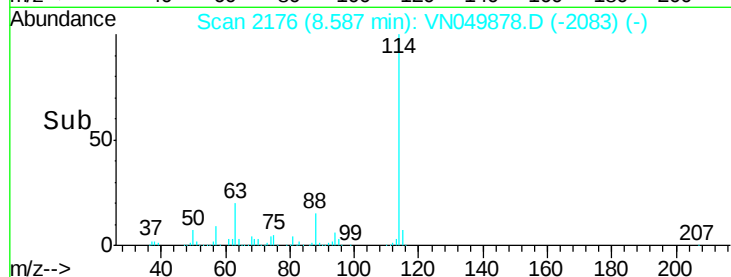
88 15.4 0.0 30.6



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: 44.77 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

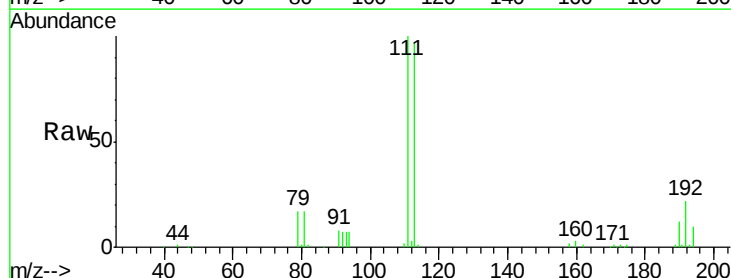
Tgt Ion:113 Resp: 361287

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

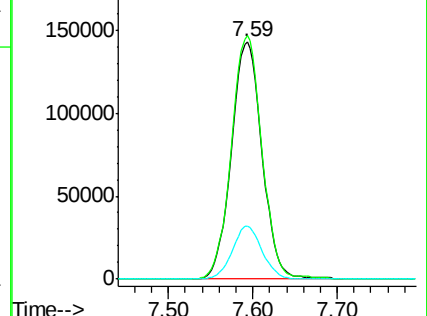
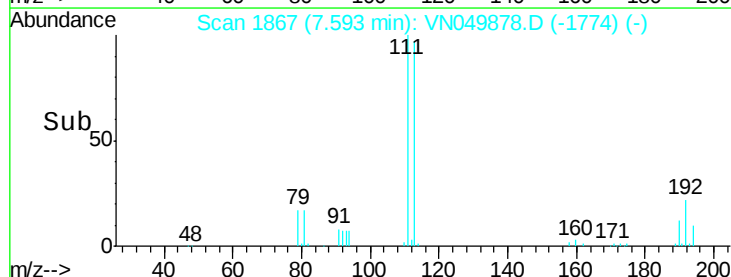
192 21.6 17.8 26.6

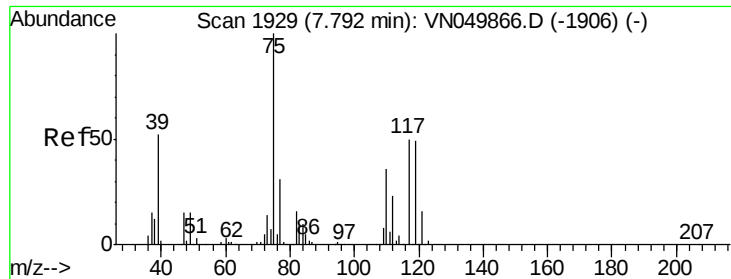


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

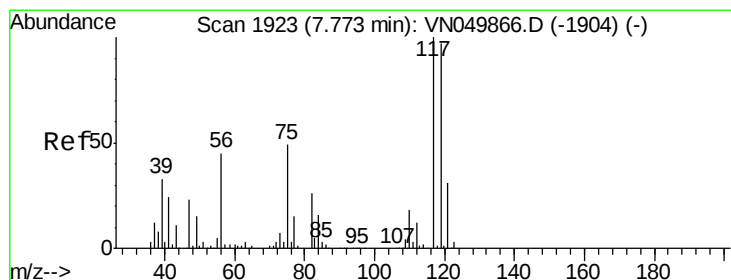
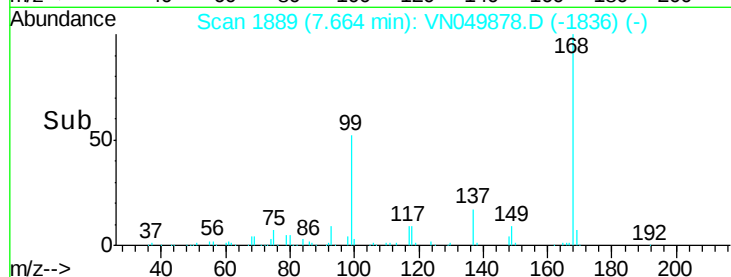
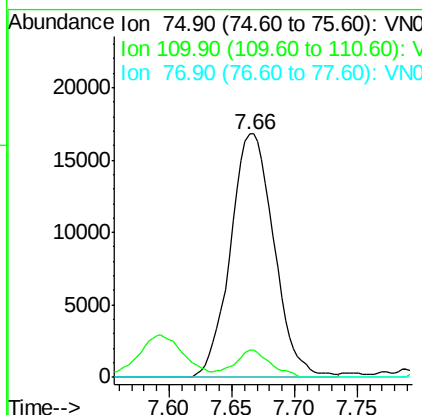
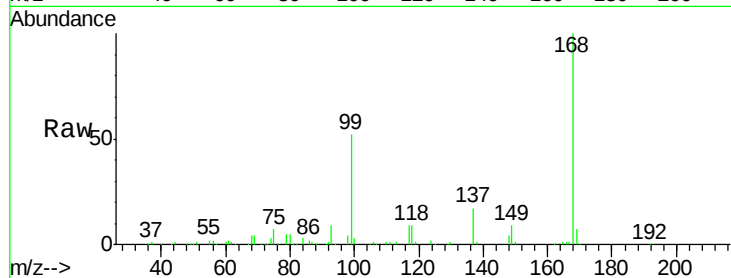




#36  
 1,1-Dichloropropene  
 Concen: 3.80 ug/l  
 RT: 7.66 min Scan# 1889  
 Delta R.T. -0.13 min  
 Lab File: VN049878.D  
 Acq: 18 Jul 2018 17:37

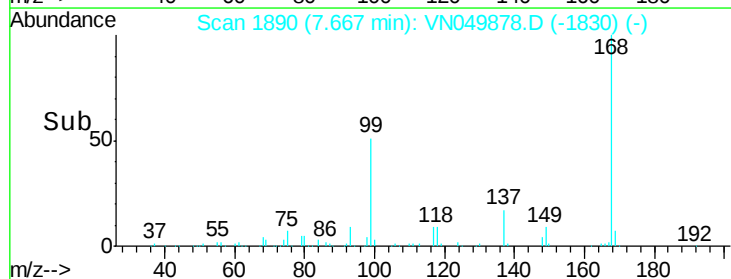
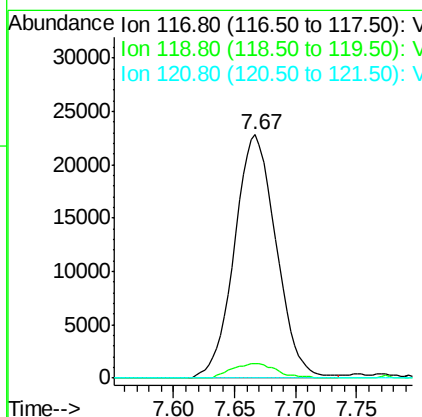
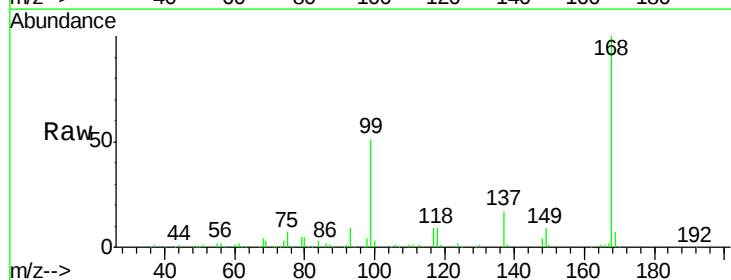
Instrument :  
 MSVOA\_N  
 ClientSampled :

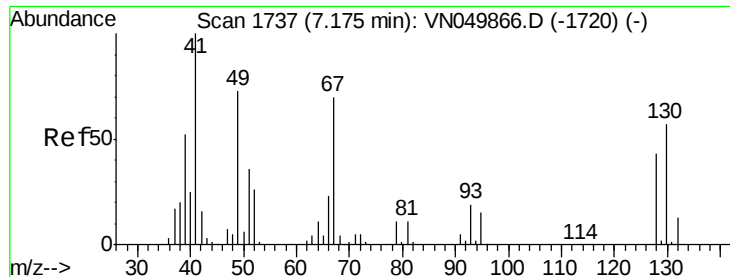
| Tot Ion   | 75    | Resp  | 40607 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.4   | 18.1  | 54.4# |
| 77        | 0.0   | 24.9  | 37.3# |



#38  
 Carbon Tetrachloride  
 Concen: 4.72 ug/l  
 RT: 7.67 min Scan# 1890  
 Delta R.T. -0.11 min  
 Lab File: VN049878.D  
 Acq: 18 Jul 2018 17:37

| Tgt Ion                                           | 117   | Resp  | 54040  |
|---------------------------------------------------|-------|-------|--------|
| Ion Ratio <td>Lower</td> <td>Upper</td> <td></td> | Lower | Upper |        |
| 117                                               | 100   |       |        |
| 119                                               | 6.2   | 77.2  | 115.8# |
| 121                                               | 0.0   | 25.0  | 37.6#  |

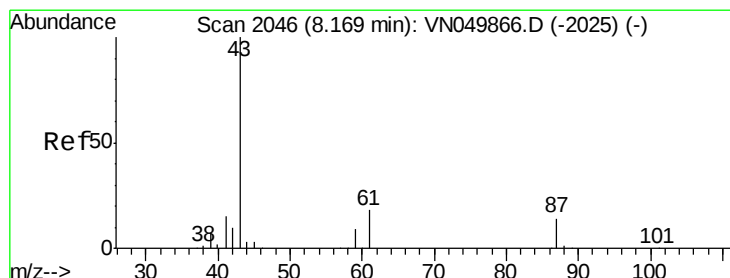
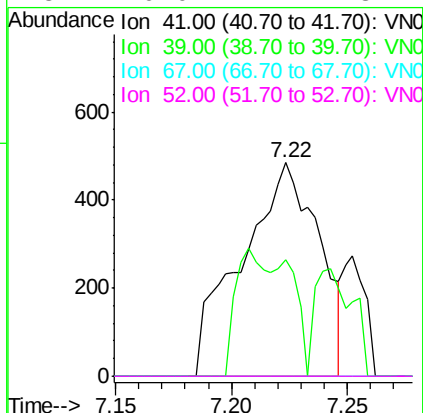
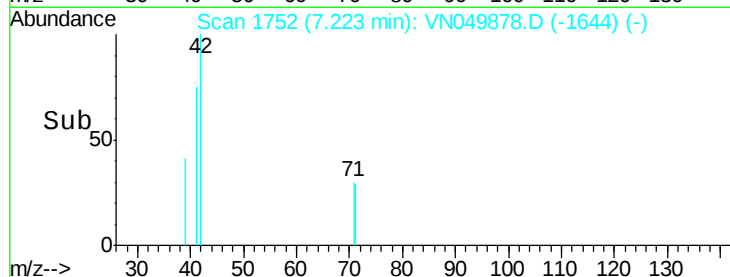
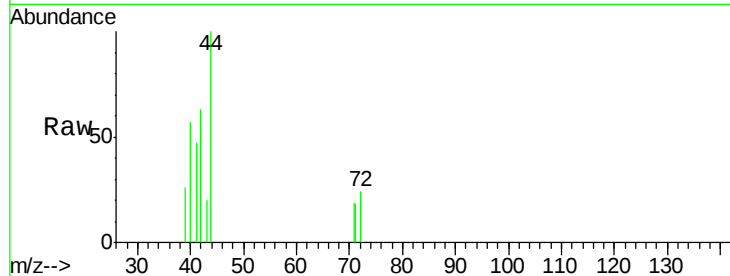




#41  
Methacrylonitrile  
Concen: 0.31 ug/l  
RT: 7.22 min Scan# 1752  
Delta R.T. 0.05 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

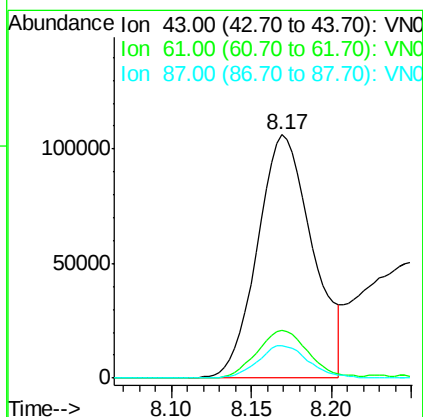
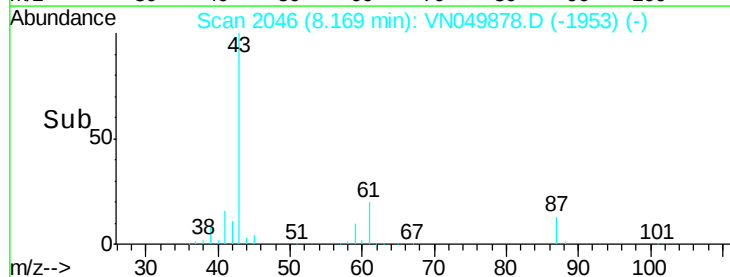
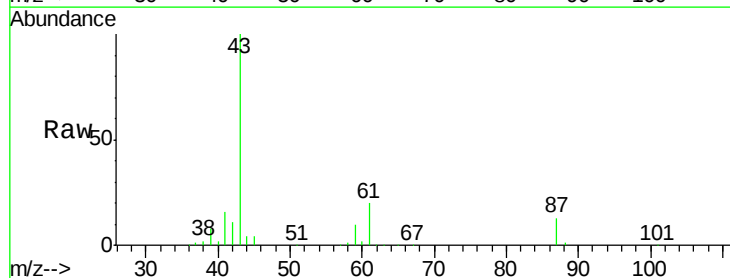
Instrument :  
MSVOA\_N  
ClientSampled :

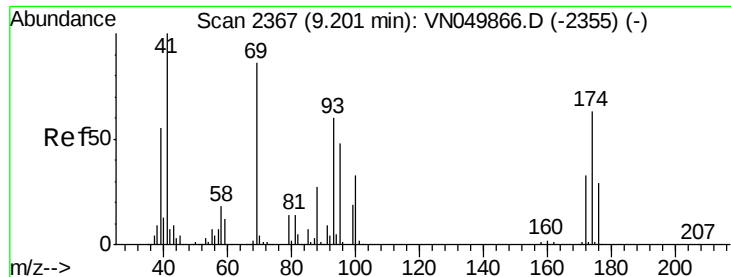
Tot Ion: 41 Resp: 1126  
Ion Ratio Lower Upper  
41 100  
39 25.0 45.4 68.2#  
67 0.0 65.4 98.0#  
52 0.0 24.7 37.1#



#43  
Isopropyl Acetate  
Concen: 19.78 ug/l  
RT: 8.17 min Scan# 2046  
Delta R.T. 0.00 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

Tgt Ion: 43 Resp: 253573  
Ion Ratio Lower Upper  
43 100  
61 18.3 14.9 22.3  
87 12.4 10.0 15.0

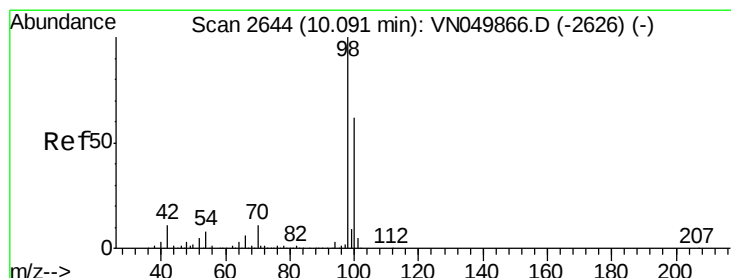
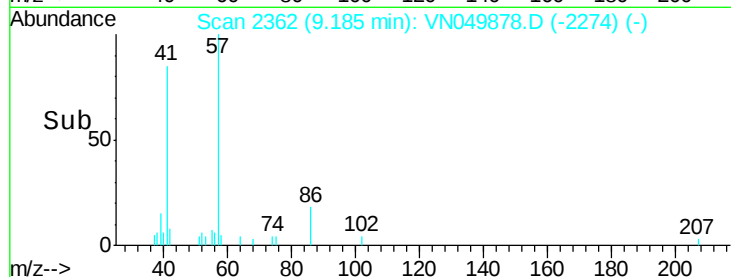
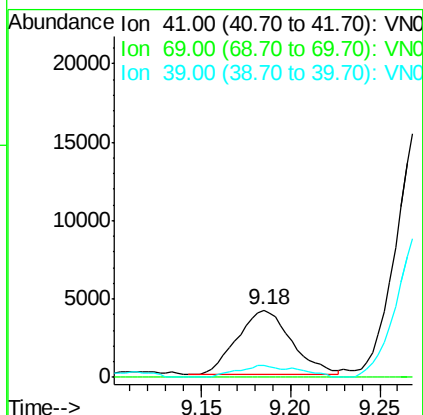
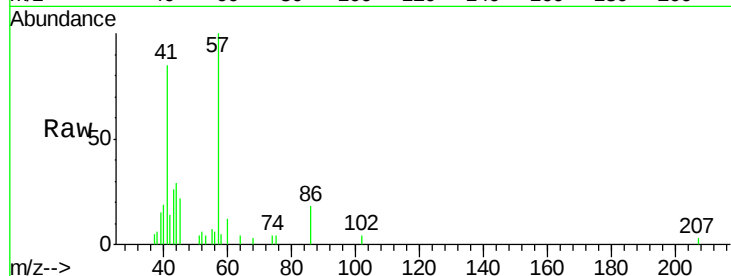




#48  
Methyl methacrylate  
Concen: 1.36 ug/l  
RT: 9.18 min Scan# 2362  
Delta R.T. -0.02 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

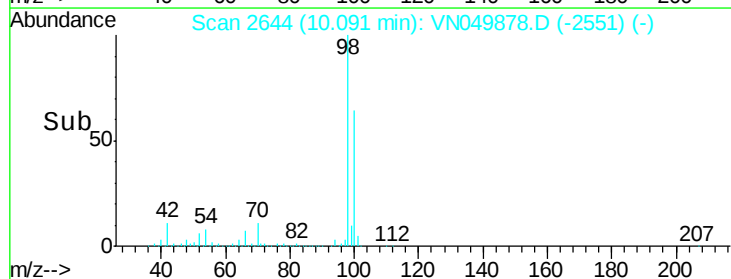
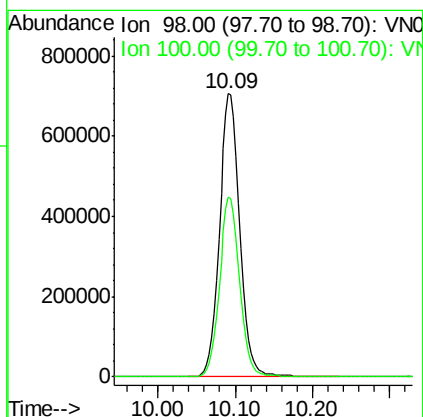
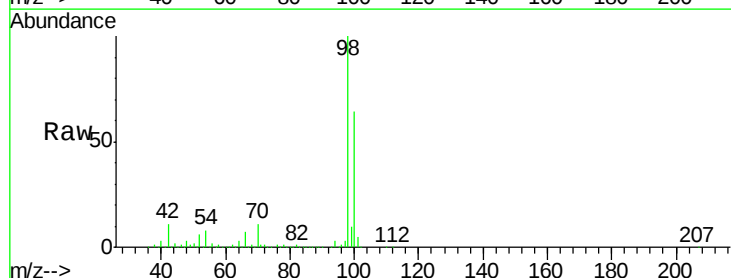
Instrument :  
MSVOA\_N  
ClientSampled :

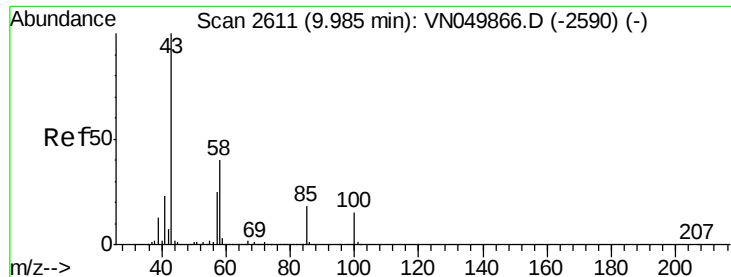
Tot Ion: 41 Resp: 8767  
Ion Ratio Lower Upper  
41 100  
69 0.0 71.5 107.3#  
39 20.8 44.7 67.1#



#50  
Toluene-d8  
Concen: 43.97 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

Tgt Ion: 98 Resp: 1292772  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

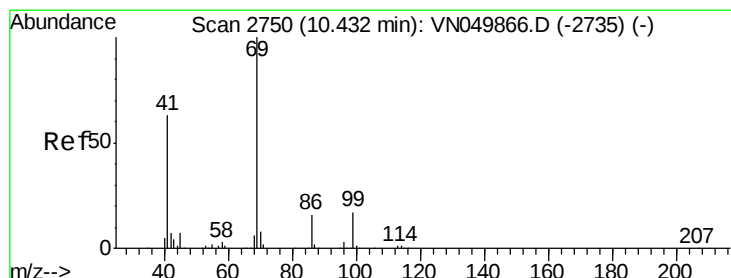
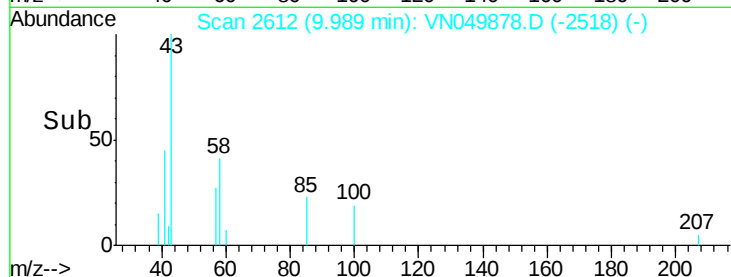
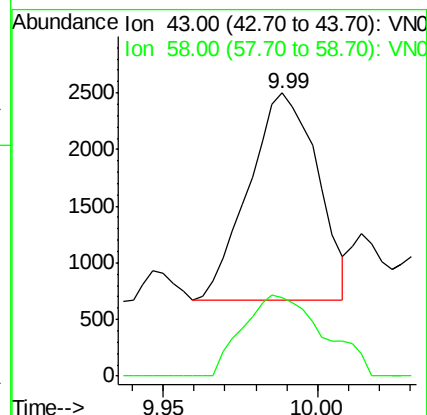
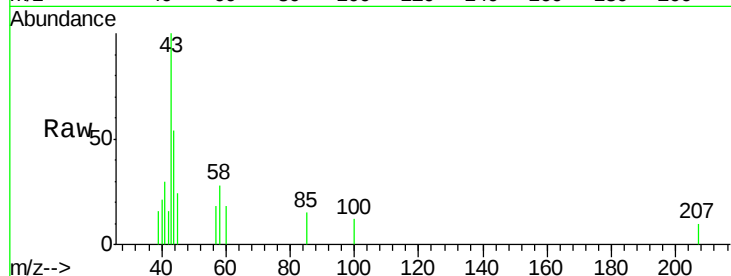
ClientSampled :

Tot Ion: 43 Resp: 2840

Ion Ratio Lower Upper

43 100

58 45.6 31.8 47.8



#56

Ethyl methacrylate

Concen: 2.17 ug/l

RT: 10.28 min Scan# 2704

Delta R.T. -0.15 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

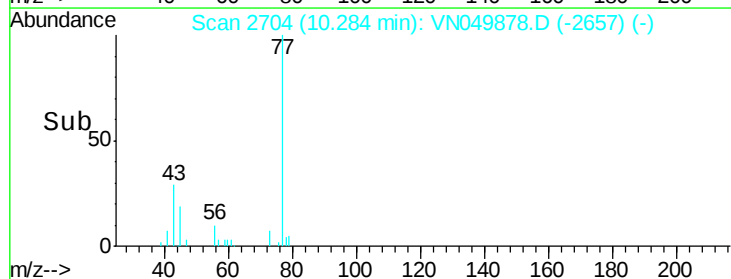
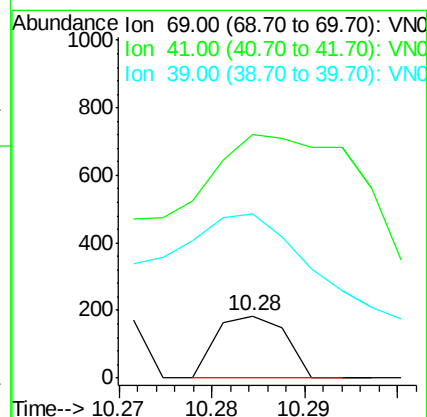
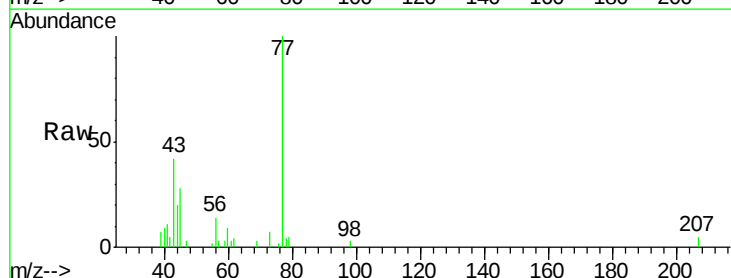
Tgt Ion: 69 Resp: 96

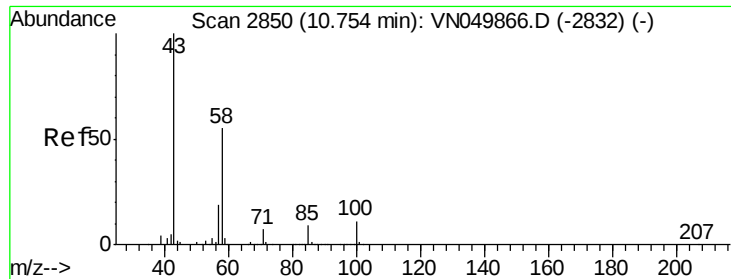
Ion Ratio Lower Upper

69 100

41 845.8 51.6 77.4#

39 986.5 25.8 38.8#





#59

2-Hexanone

Concen: 4.69 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

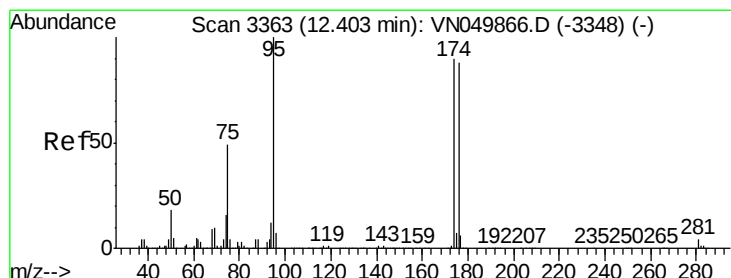
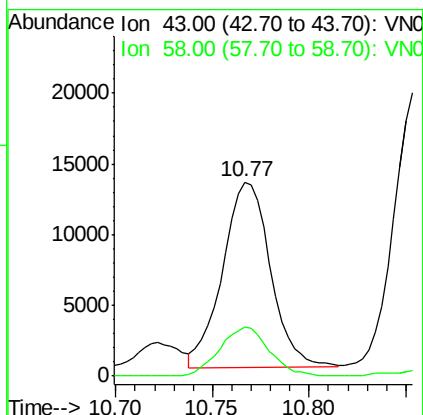
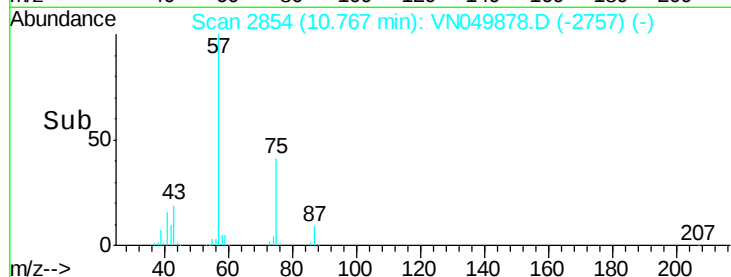
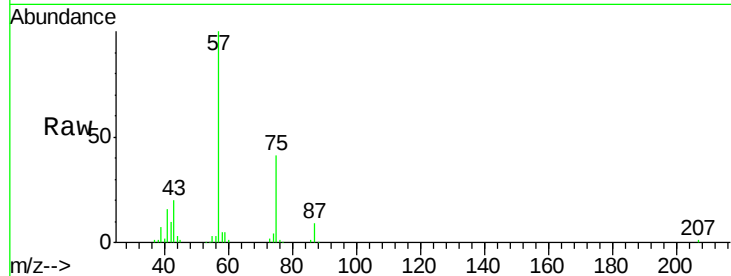
ClientSampleId :

Tot Ion: 43 Resp: 22560

Ion Ratio Lower Upper

43 100

58 27.4 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 35.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

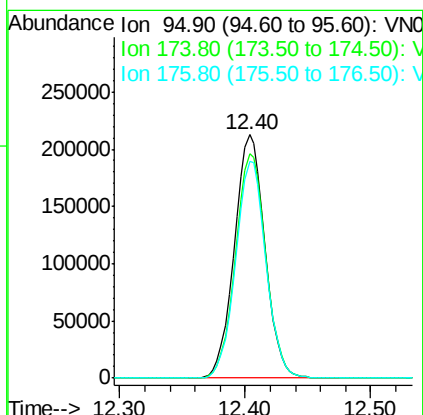
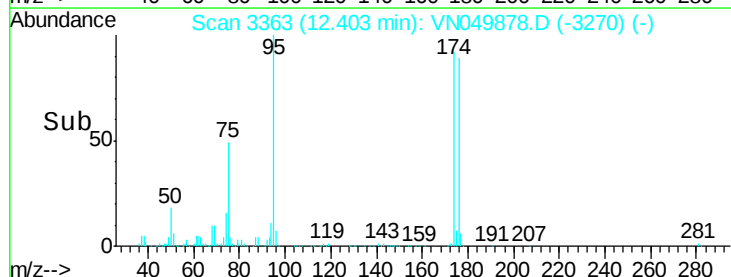
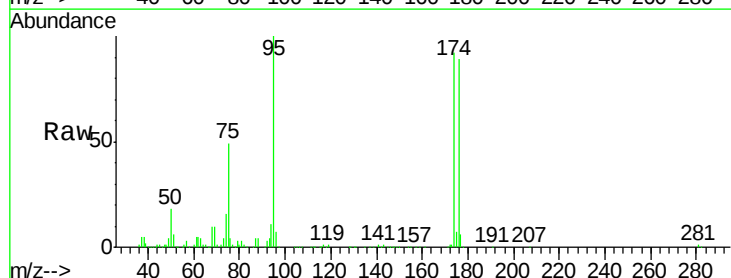
Tgt Ion: 95 Resp: 359417

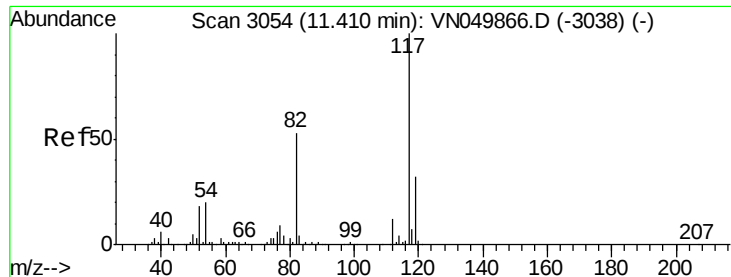
Ion Ratio Lower Upper

95 100

174 92.1 0.0 179.6

176 88.4 0.0 174.0

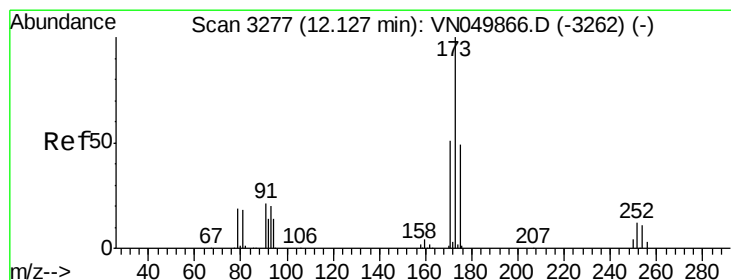
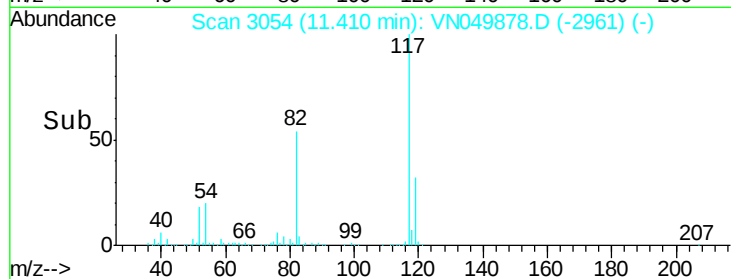
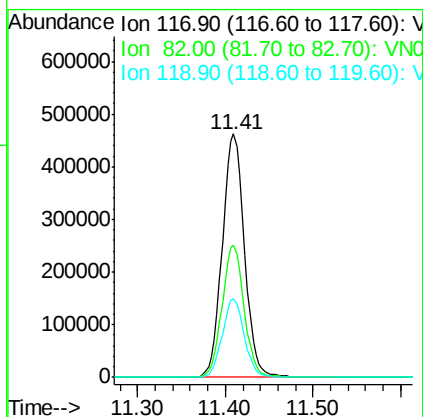
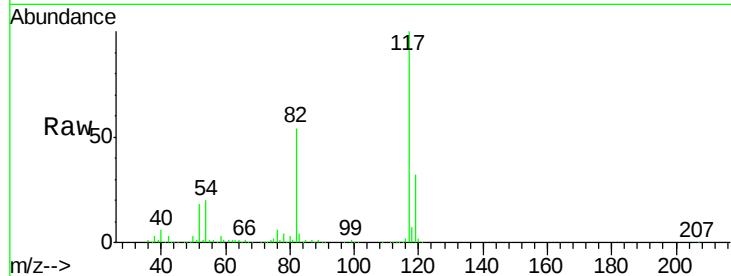




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

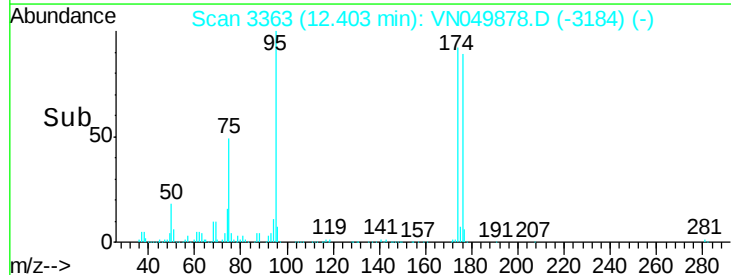
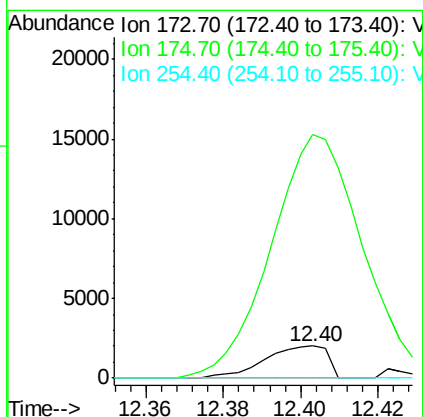
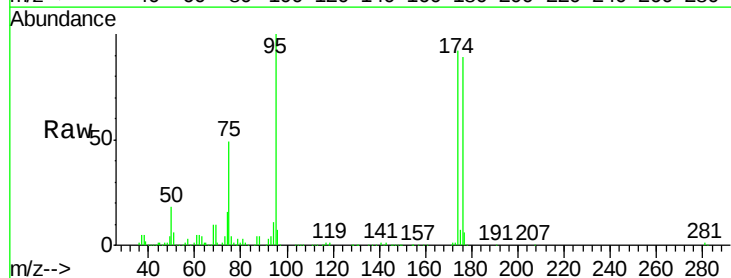
Instrument :  
MSVOA\_N  
ClientSampled :

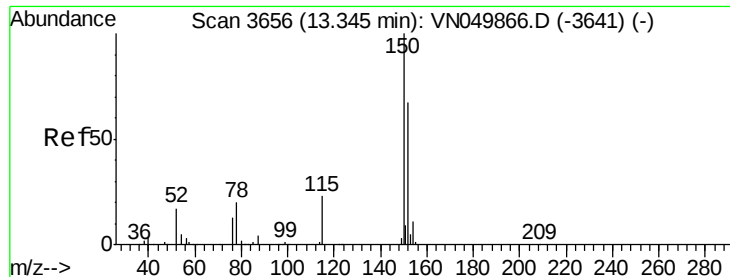
Tot Ion:117 Resp: 812354  
Ion Ratio Lower Upper  
117 100  
82 54.4 41.9 62.9  
119 32.3 25.4 38.2



#71  
Bromoform  
Concen: 0.40 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. 0.28 min  
Lab File: VN049878.D  
Acq: 18 Jul 2018 17:37

Tgt Ion:173 Resp: 2272  
Ion Ratio Lower Upper  
173 100  
175 902.8 24.6 73.8#  
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

ClientSampleId :

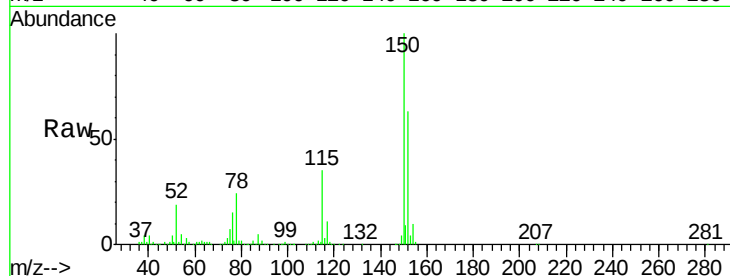
Tot Ion:152 Resp: 313564

Ion Ratio Lower Upper

152 100

115 56.4 28.1 84.2

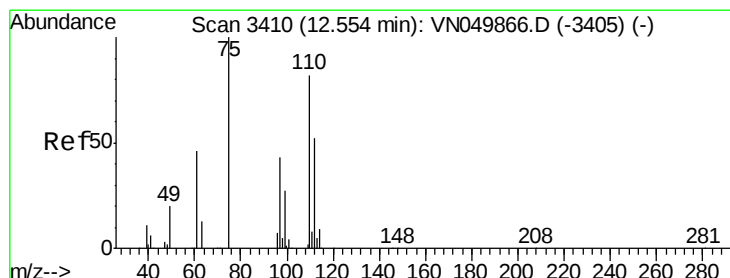
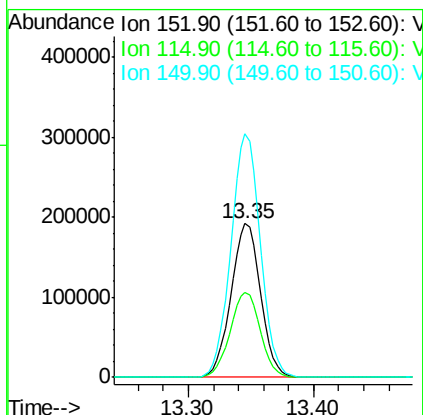
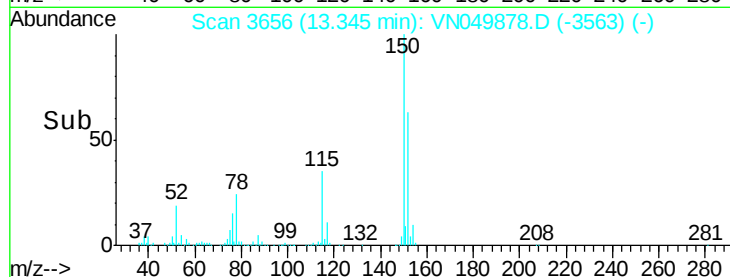
150 157.6 0.0 347.6



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



#76

1,2,3-Trichloropropane

Concen: 30.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049878.D

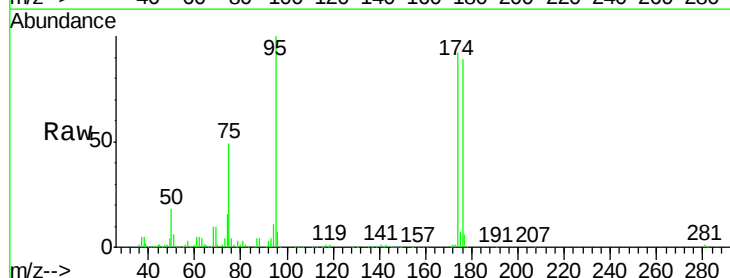
Acq: 18 Jul 2018 17:37

Tgt Ion: 75 Resp: 179225

Ion Ratio Lower Upper

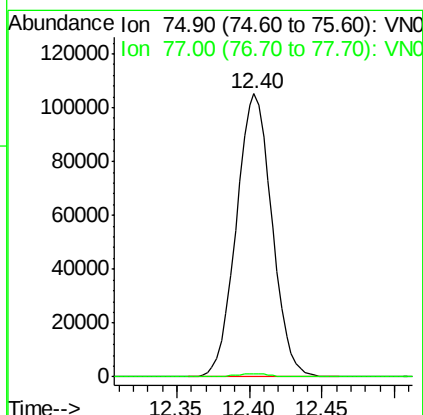
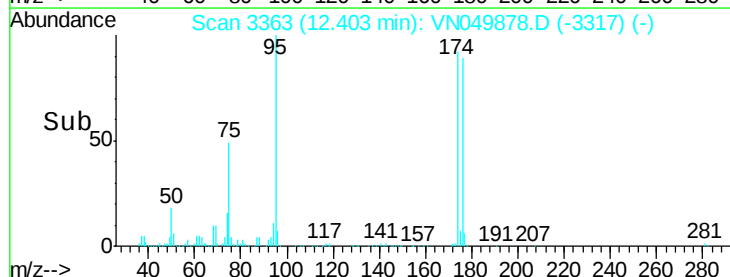
75 100

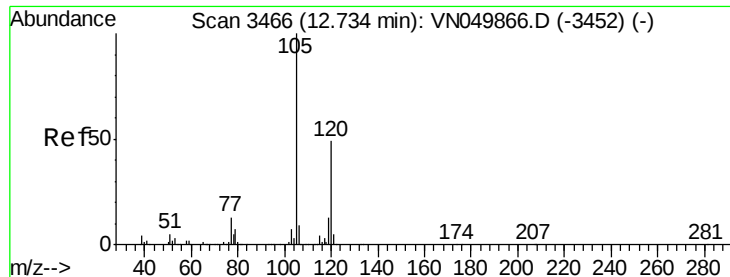
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.24 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

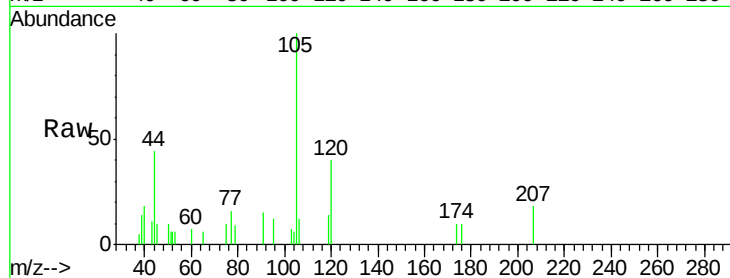
ClientSampleId :

Tot Ion:105 Resp: 4599

Ion Ratio Lower Upper

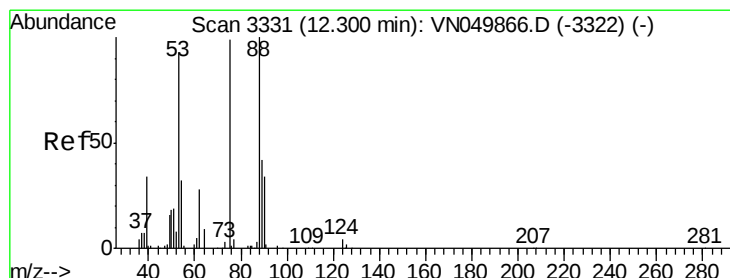
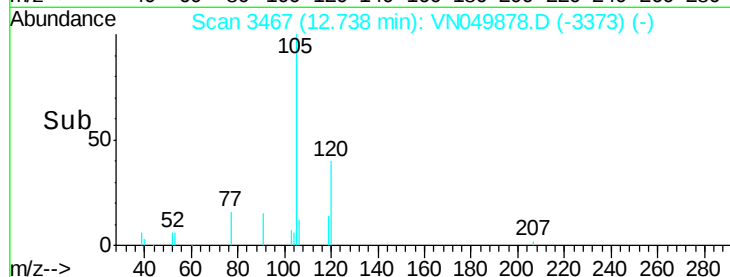
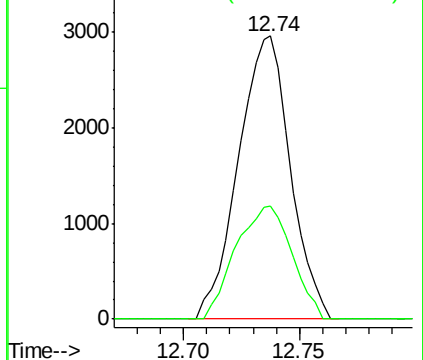
105 100

120 43.2 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 95.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

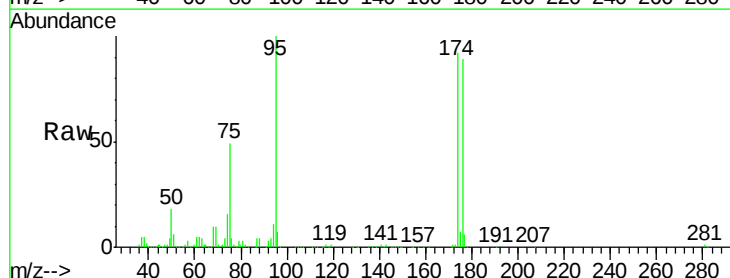
Tgt Ion: 75 Resp: 179225

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

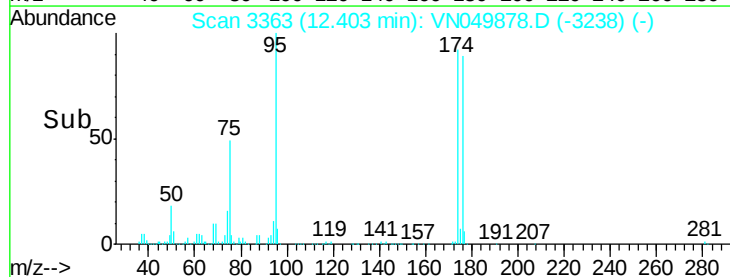
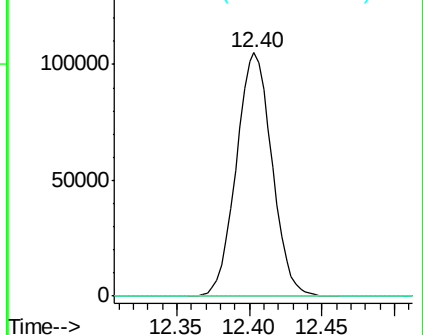
89 0.0 35.9 53.9#

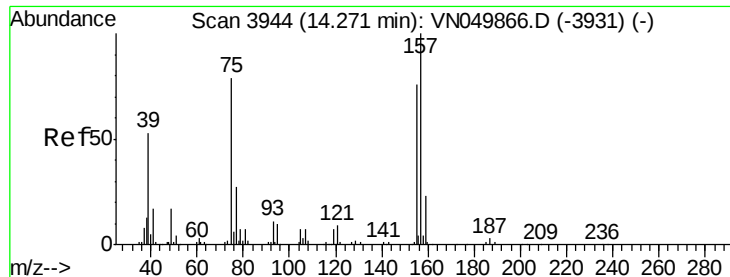


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

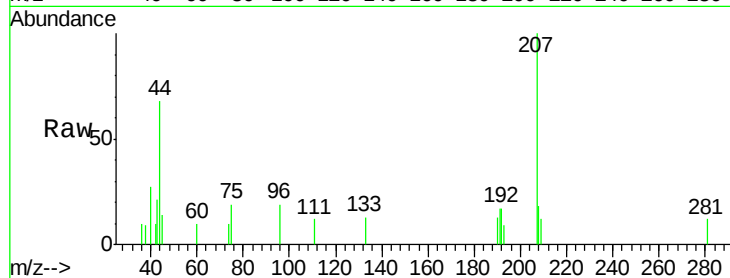




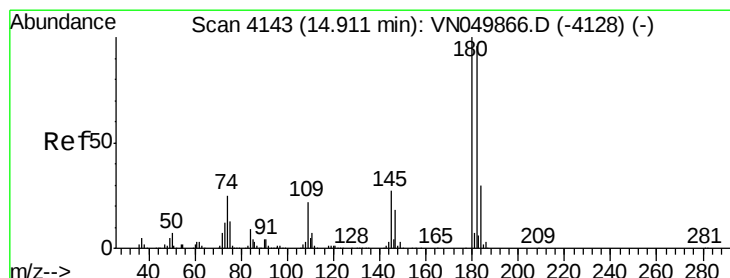
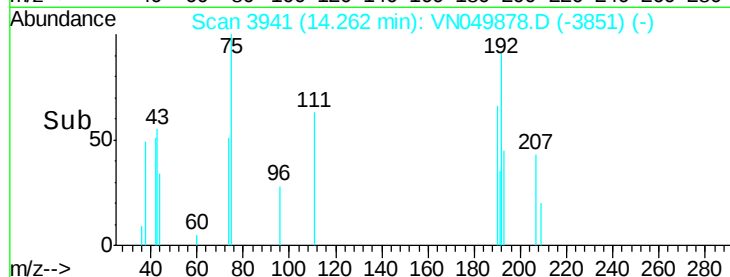
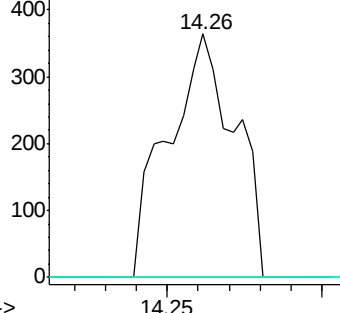
#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.50 ug/l  
 RT: 14.26 min Scan# 3941  
 Delta R.T. -0.01 min  
 Lab File: VN049878.D  
 Acq: 18 Jul 2018 17:37

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 75 Resp: 550  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 45.7 137.1#  
 157 0.0 56.9 170.7#

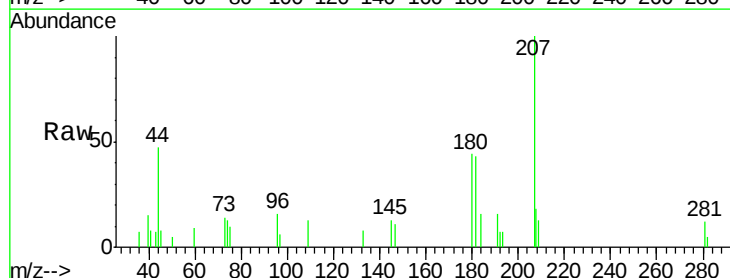


Abundance Ion 74.90 (74.60 to 75.60): VN049866.D (-3931) (-)  
 Ion 154.80 (154.50 to 155.50): VN049866.D (-3931) (-)  
 Ion 156.80 (156.50 to 157.50): VN049866.D (-3931) (-)

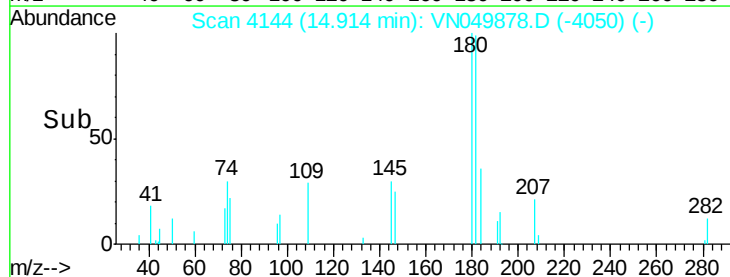
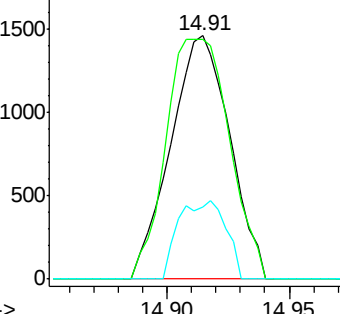


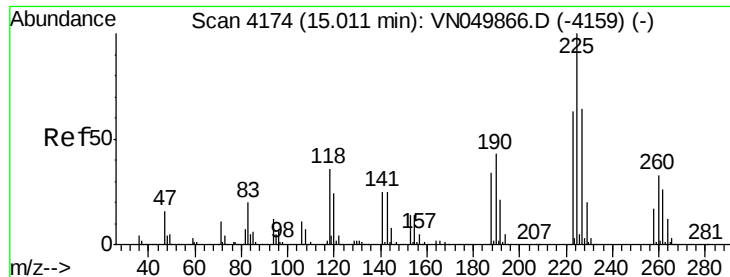
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.84 ug/l  
 RT: 14.91 min Scan# 4144  
 Delta R.T. 0.00 min  
 Lab File: VN049878.D  
 Acq: 18 Jul 2018 17:37

Tgt Ion: 180 Resp: 2441  
 Ion Ratio Lower Upper  
 180 100  
 182 106.5 47.3 141.9  
 145 25.8 14.4 43.0



Abundance Ion 179.80 (179.50 to 180.50): VN049866.D (-4128) (-)  
 Ion 181.80 (181.50 to 182.50): VN049866.D (-4128) (-)  
 Ion 144.80 (144.50 to 145.50): VN049866.D (-4128) (-)





#94

Hexachlorobutadiene

Concen: 0.33 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

Instrument :

MSVOA\_N

ClientSampled :

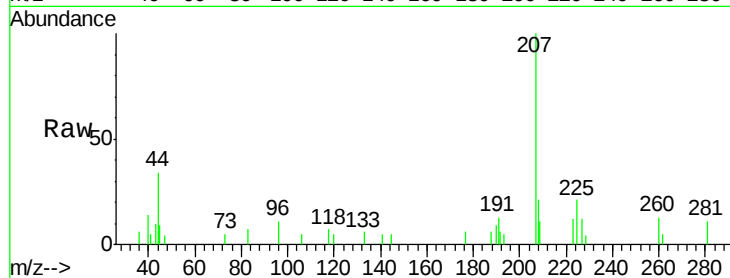
Tot Ion:225 Resp: 1208

Ion Ratio Lower Upper

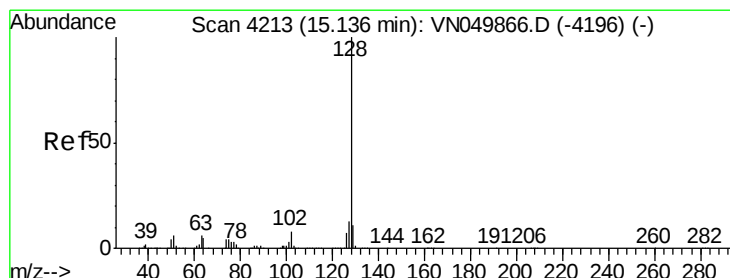
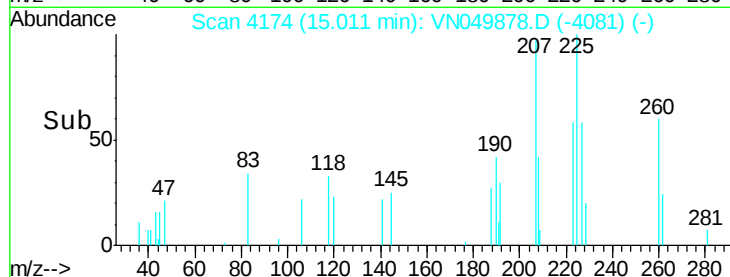
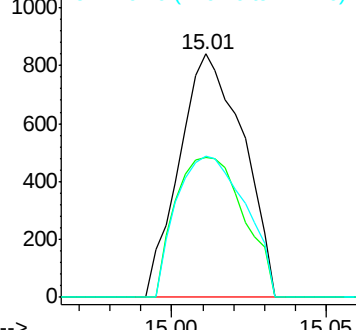
225 100

223 61.7 30.9 92.7

227 63.1 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.88 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049878.D

Acq: 18 Jul 2018 17:37

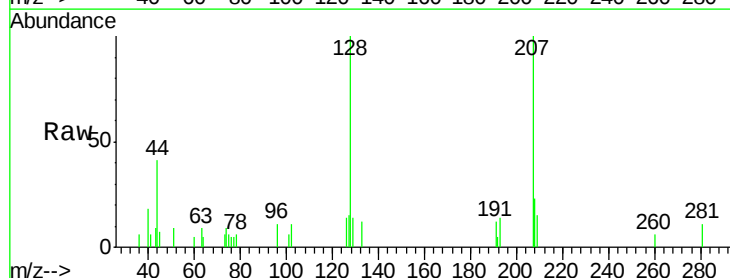
Tgt Ion:128 Resp: 6305

Ion Ratio Lower Upper

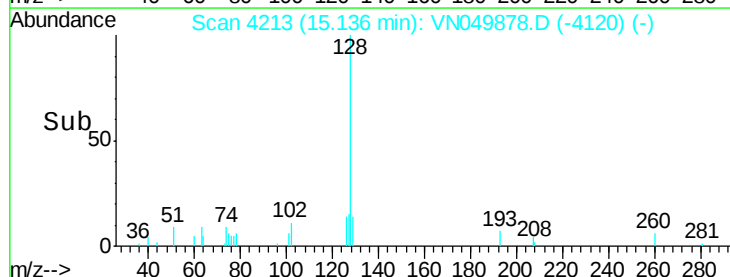
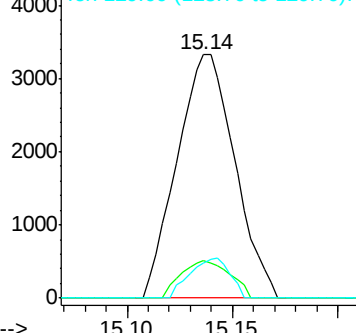
128 100

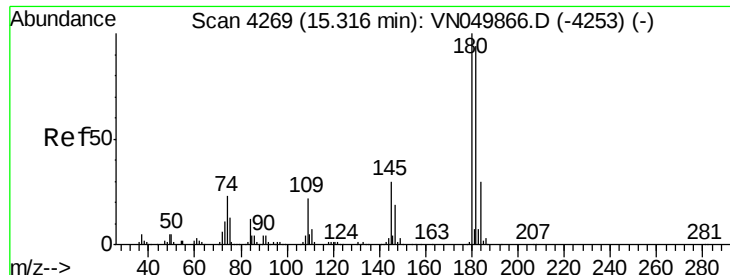
127 13.1 10.4 15.6

129 11.3 8.6 13.0



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: 0.54 ug/l  
 RT: 15.32 min Scan# 4269  
 Delta R.T. 0.00 min  
 Lab File: VN049878.D  
 Acq: 18 Jul 2018 17:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.5  | 47.4  | 142.2 |
| 145     | 25.4  | 15.2  | 45.6  |

