

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\  
 Data File : VN049836.D  
 Acq On : 14 Jul 2018 8:57  
 Operator : MD\SY  
 Sample : J3980-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-E-MH-S

Quant Time: Jul 16 00:53:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 12 15:51:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1181366  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1915228  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1628682  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 621030   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 830493   | 60.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 120.86% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 727972   | 50.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.86% |      |
| 50) Toluene-d8            | 10.09  | 98  | 2567248  | 51.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.90% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 717294   | 40.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 81.28%  |      |

## Target Compounds

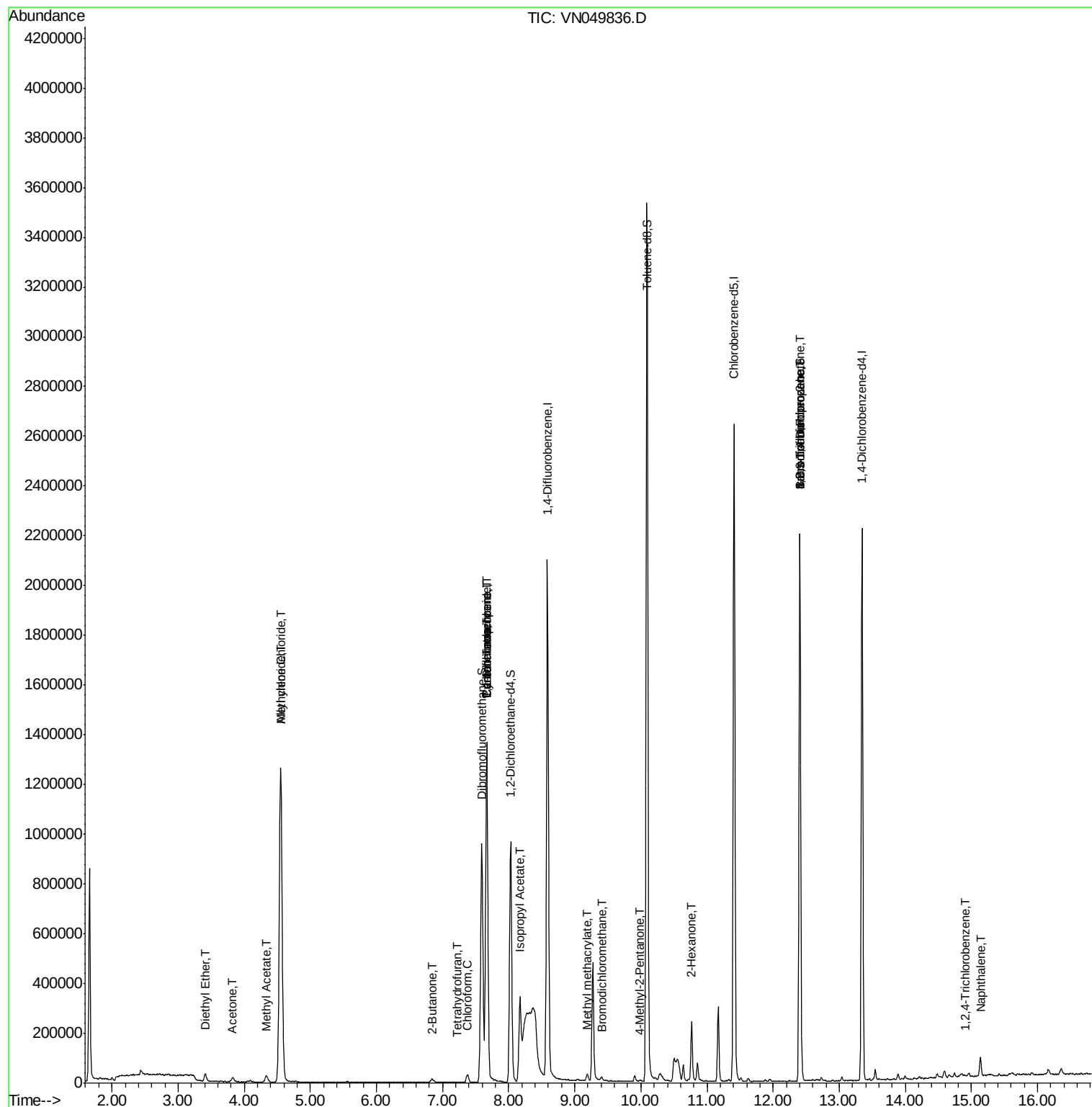
|                                |       |     |        |           |      | Qvalue |
|--------------------------------|-------|-----|--------|-----------|------|--------|
| 2) Dichlorodifluoromethane     | 1.85  | 85  | 103    | Below Cal | #    | 44     |
| 3) Chloromethane               | 2.06  | 50  | 2438   | Below Cal | #    | 82     |
| 4) Vinyl Chloride              | 2.19  | 62  | 68     | Below Cal | #    | 43     |
| 5) Bromomethane                | 2.57  | 94  | 66     | Below Cal | #    | 80     |
| 8) Diethyl Ether               | 3.41  | 74  | 16125  | 2.01      | ug/l | 95     |
| 14) Allyl chloride             | 4.55  | 41  | 33538  | 1.61      | ug/l | # 25   |
| 16) Acetone                    | 3.82  | 43  | 30865  | 7.11      | ug/l | 95     |
| 17) Carbon Disulfide           | 4.05  | 76  | 2559   | Below Cal | #    | 75     |
| 18) Methyl Acetate             | 4.34  | 43  | 47907  | 3.49      | ug/l | 99     |
| 20) Methylene Chloride         | 4.55  | 84  | 978624 | 69.78     | ug/l | 98     |
| 25) 2-Butanone                 | 6.85  | 43  | 4372   | 0.82      | ug/l | # 77   |
| 29) Tetrahydrofuran            | 7.22  | 42  | 1369   | 0.41      | ug/l | # 64   |
| 30) Chloroform                 | 7.37  | 83  | 29532  | 1.07      | ug/l | 92     |
| 31) Cyclohexane                | 7.67  | 56  | 22005  | 0.78      | ug/l | # 1    |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 80709  | 3.66      | ug/l | # 49   |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 104966 | 4.55      | ug/l | # 17   |
| 43) Isopropyl Acetate          | 8.17  | 43  | 414437 | 17.65     | ug/l | 97     |
| 47) Bromodichloromethane       | 9.41  | 83  | 8230   | 0.35      | ug/l | 92     |
| 48) Methyl methacrylate        | 9.18  | 41  | 13594  | 1.16      | ug/l | # 24   |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43  | 4789   | 0.38      | ug/l | # 84   |
| 55) 1,1,2-Trichloroethane      | 10.57 | 97  | 1298   | Below Cal | #    | 15     |
| 59) 2-Hexanone                 | 10.77 | 43  | 32916  | 3.88      | ug/l | # 58   |
| 71) Bromoform                  | 12.41 | 173 | 6090   | 0.56      | ug/l | # 1    |
| 75) 1,1,2,2-Tetrachloroethane  | 12.45 | 83  | 31     | Below Cal | #    | 25     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 353825 | 32.07     | ug/l | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 353825 | 103.57    | ug/l | # 13   |
| 90) Hexachloroethane           | 13.89 | 117 | 1307   | Below Cal | #    | 4      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75  | 303    | Below Cal | #    | 1      |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180 | 285    | 2.91      | ug/l | # 1    |
| 95) Naphthalene                | 15.14 | 128 | 63247  | 6.14      | ug/l | 98     |

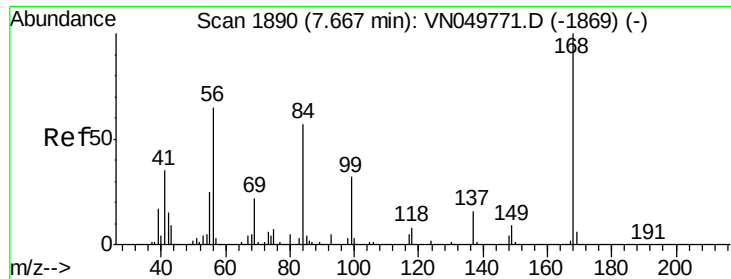
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J3980-04  
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ALS Vial : 52 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :  
TP-E-MH-S

Quant Time: Jul 16 00:53:09 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N071218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 12 15:51:38 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: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

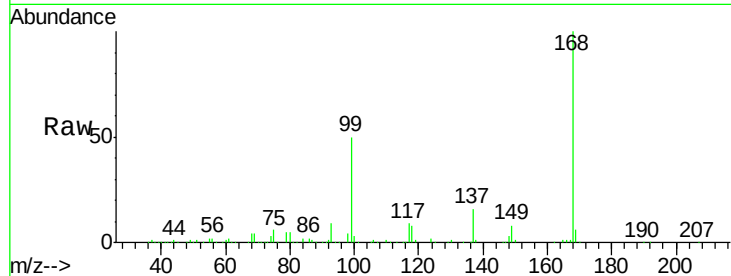
TP-E-MH-S

Tot Ion:168 Resp: 1181366

Ion Ratio Lower Upper

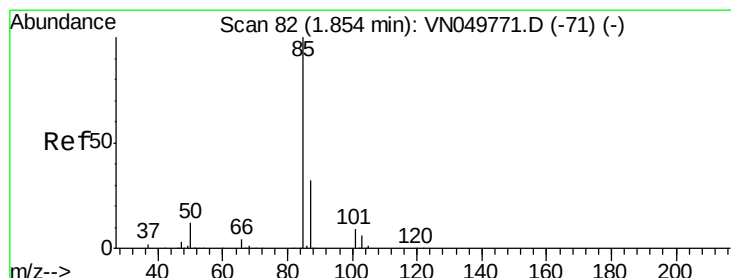
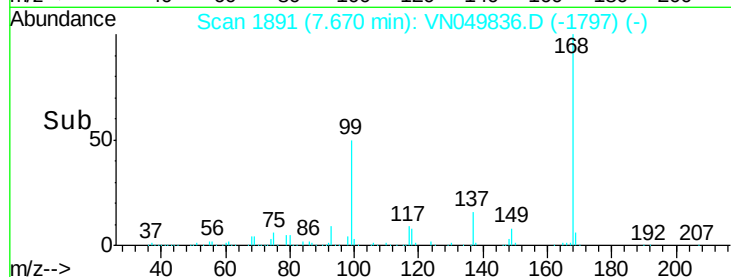
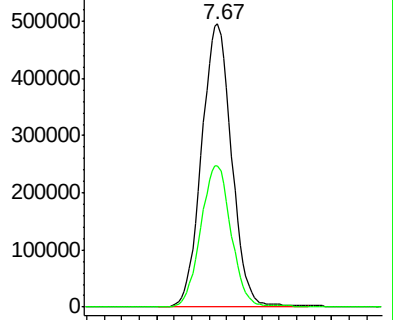
168 100

99 50.1 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN049836.D

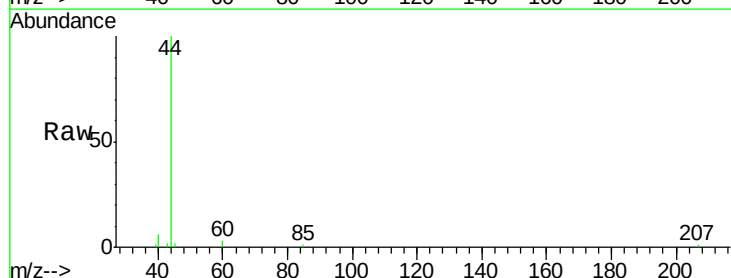
Acq: 14 Jul 2018 8:57

Tgt Ion: 85 Resp: 103

Ion Ratio Lower Upper

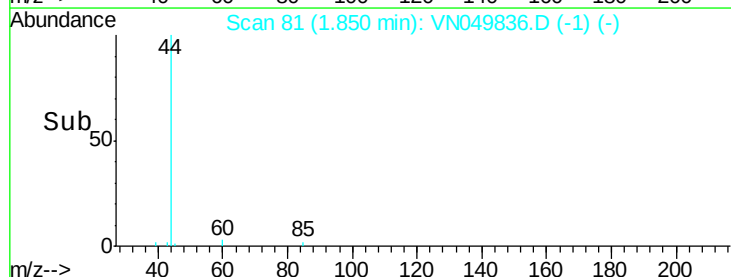
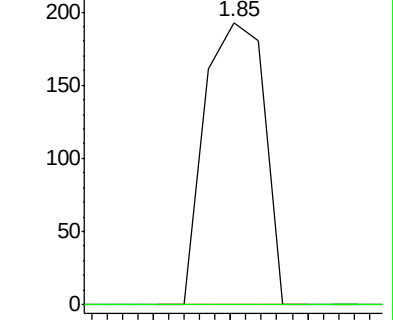
85 100

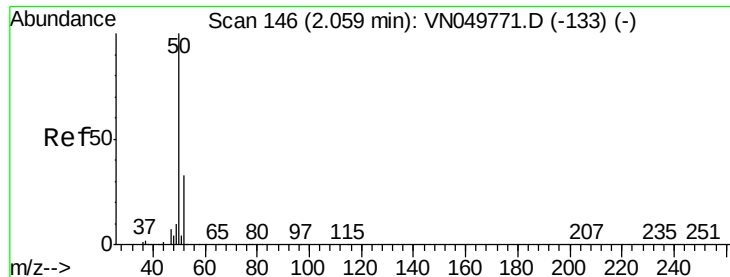
87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

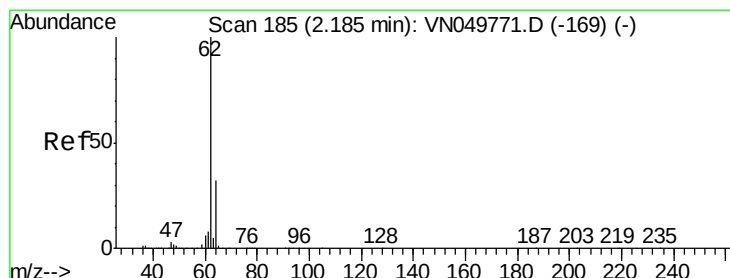
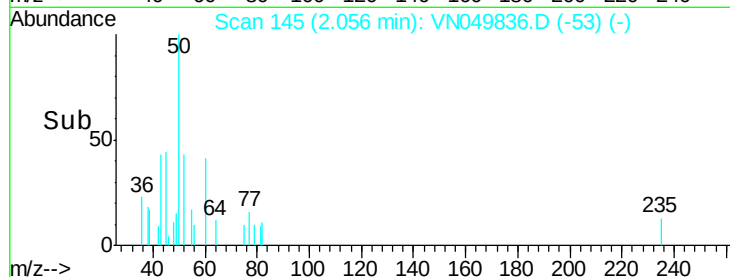
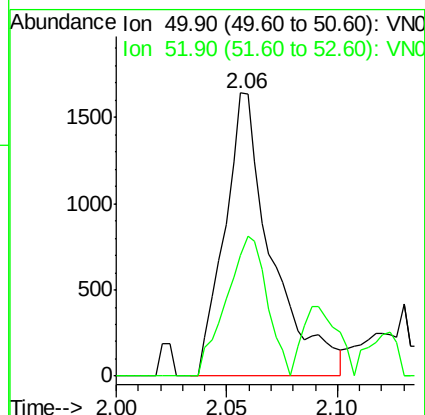
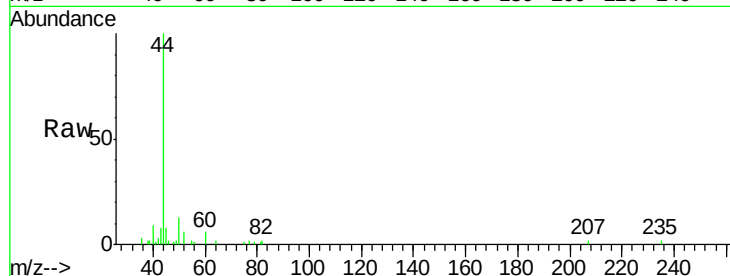
TP-E-MH-S

Tot Ion: 50 Resp: 2438

Ion Ratio Lower Upper

50 100

52 42.7 26.1 39.1#



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.19 min Scan# 186

Delta R.T. 0.00 min

Lab File: VN049836.D

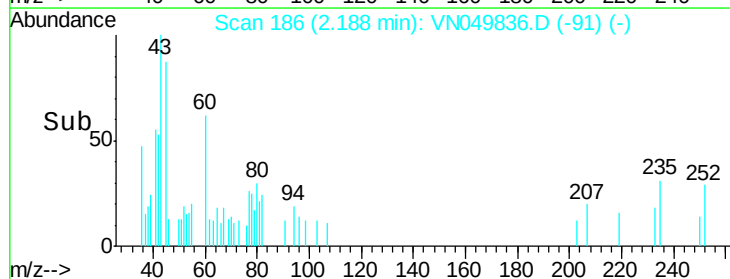
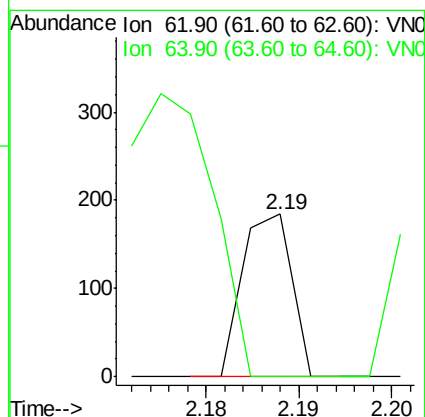
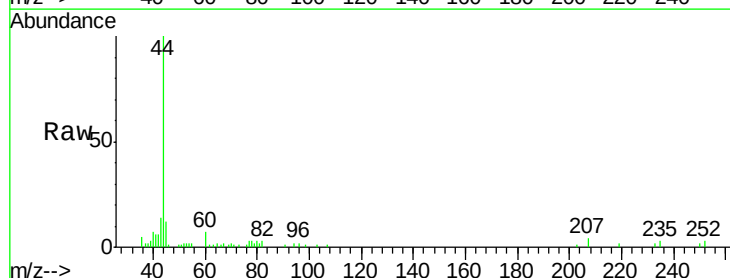
Acq: 14 Jul 2018 8:57

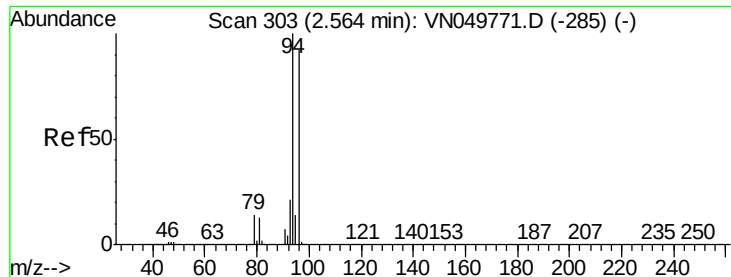
Tgt Ion: 62 Resp: 68

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.0#





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

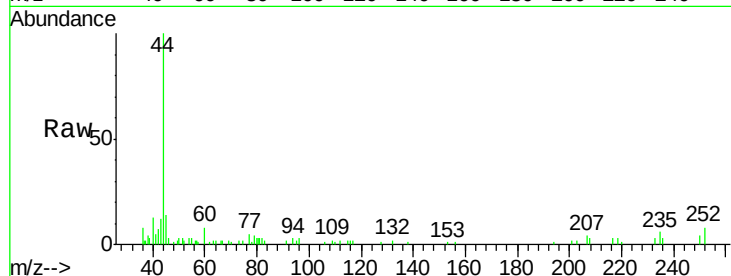
TP-E-MH-S

Tot Ion: 94 Resp: 66

Ion Ratio Lower Upper

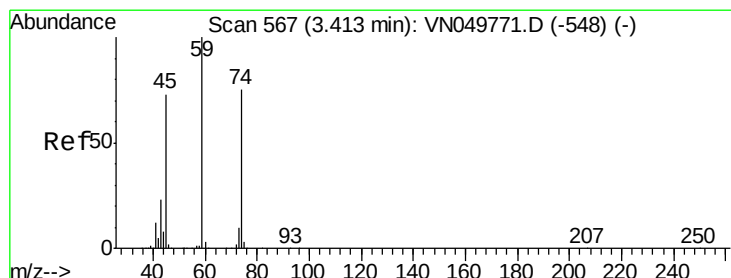
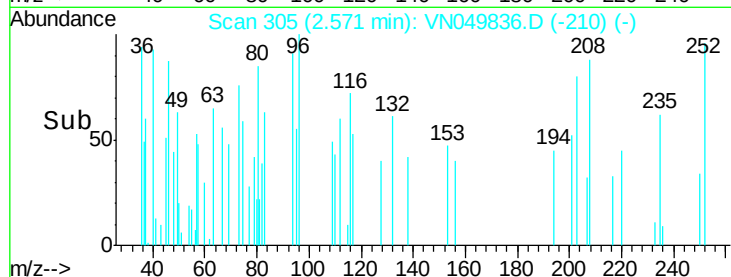
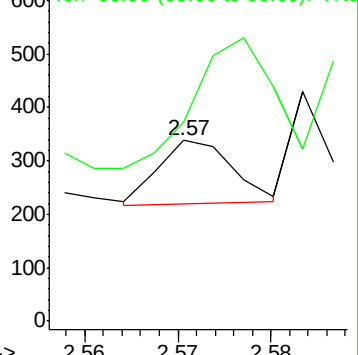
94 100

96 75.4 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#8

Diethyl Ether

Concen: 2.01 ug/l

RT: 3.41 min Scan# 565

Delta R.T. -0.01 min

Lab File: VN049836.D

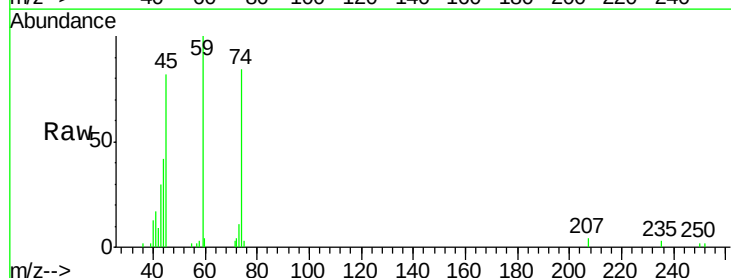
Acq: 14 Jul 2018 8:57

Tgt Ion: 74 Resp: 16125

Ion Ratio Lower Upper

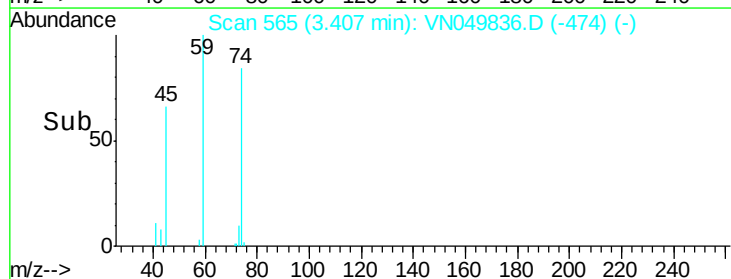
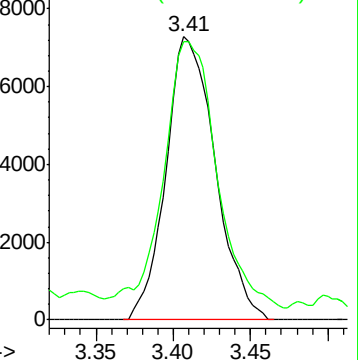
74 100

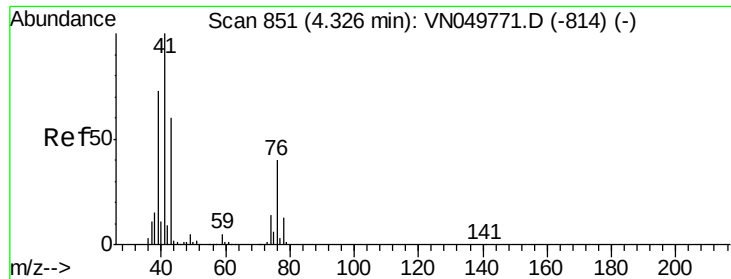
45 101.6 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

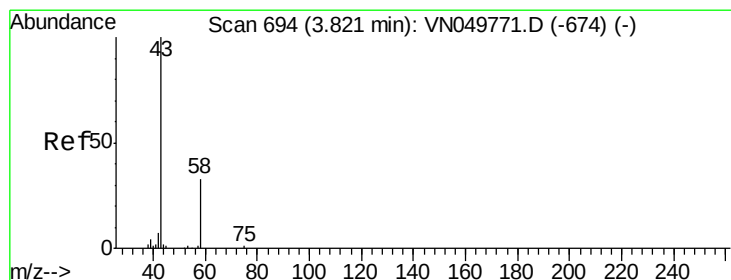
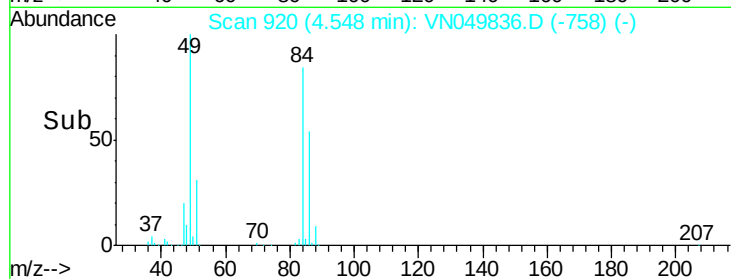
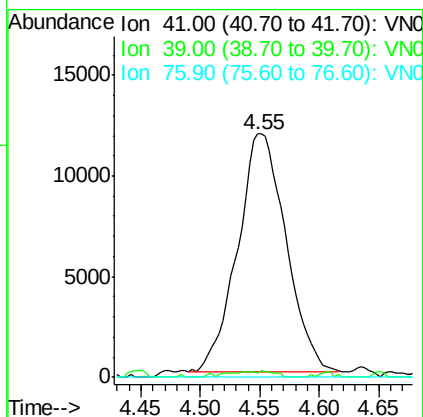
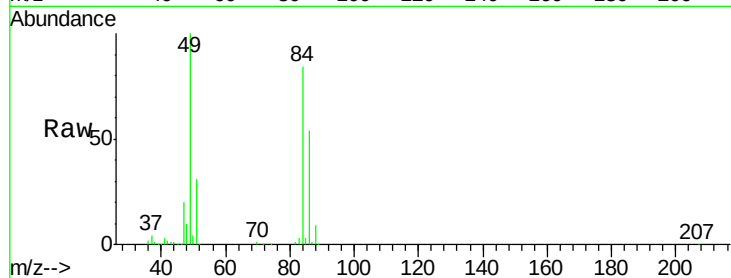




#14  
Allvl chloride  
Concen: 1.61 ug/l  
RT: 4.55 min Scan# 920  
Delta R.T. 0.22 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

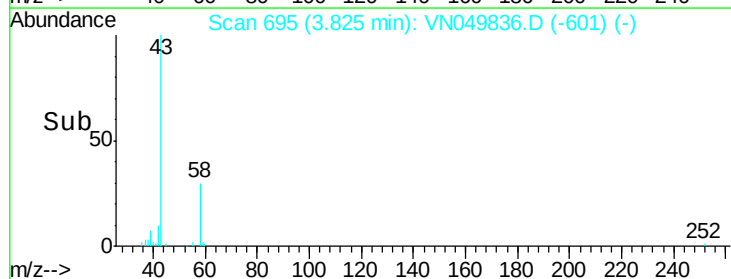
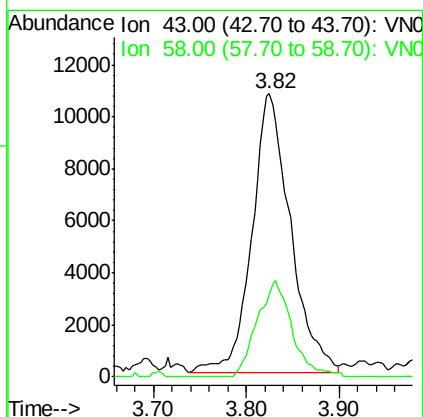
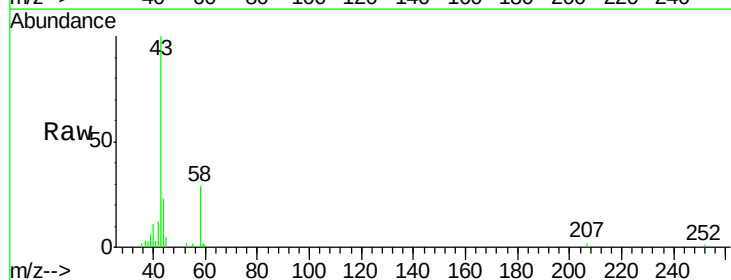
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-E-MH-S

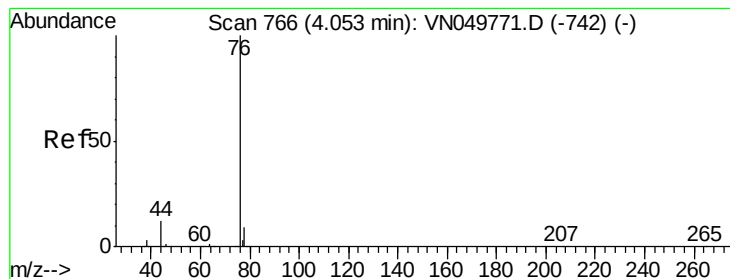
Tot Ion: 41 Resp: 33538  
Ion Ratio Lower Upper  
41 100  
39 0.2 53.2 79.8#  
76 0.0 29.0 43.6#



#16  
Acetone  
Concen: 7.11 ug/l  
RT: 3.82 min Scan# 695  
Delta R.T. 0.00 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

Tgt Ion: 43 Resp: 30865  
Ion Ratio Lower Upper  
43 100  
58 29.4 25.9 38.9





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 764

Delta R.T. -0.01 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

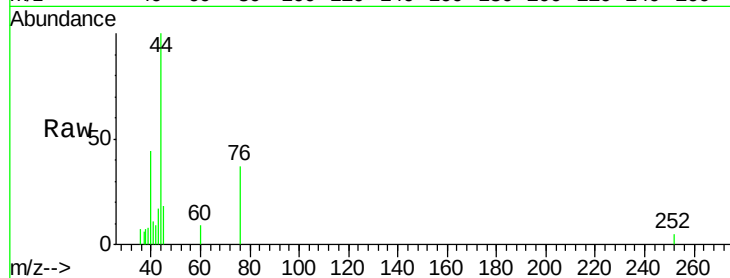
TP-E-MH-S

Tot Ion: 76 Resp: 2559

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN049771.D (-742) (-)

Ion 77.90 (77.60 to 78.60): VN049771.D (-742) (-)

4.05

1200

1000

800

600

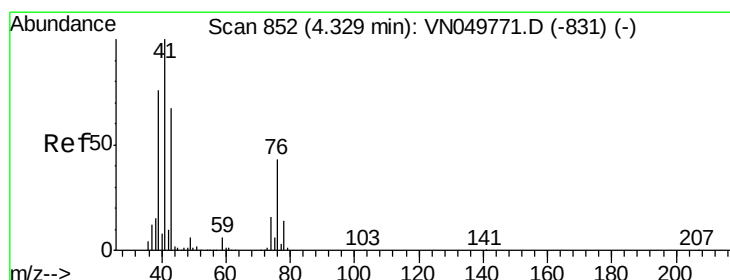
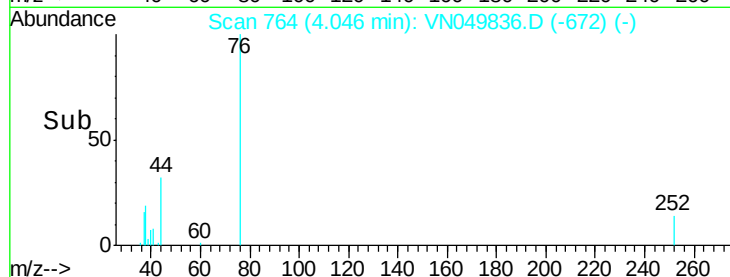
400

200

0

Time-->

4.00 4.05 4.10



#18

Methyl Acetate

Concen: 3.49 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049836.D

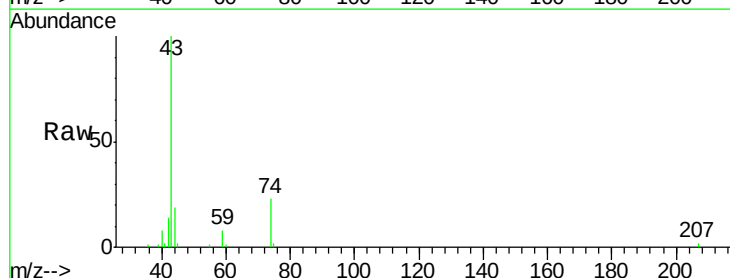
Acq: 14 Jul 2018 8:57

Tgt Ion: 43 Resp: 47907

Ion Ratio Lower Upper

43 100

74 25.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-831) (-)

Ion 74.00 (73.70 to 74.70): VN049771.D (-831) (-)

4.34

15000

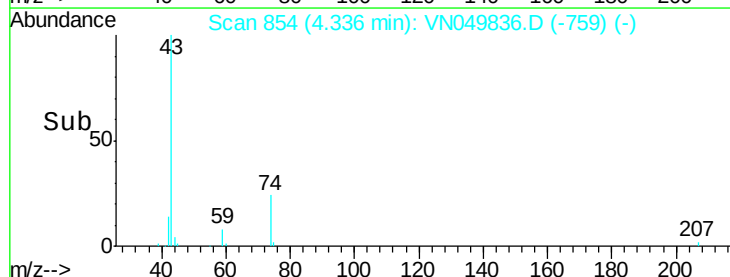
10000

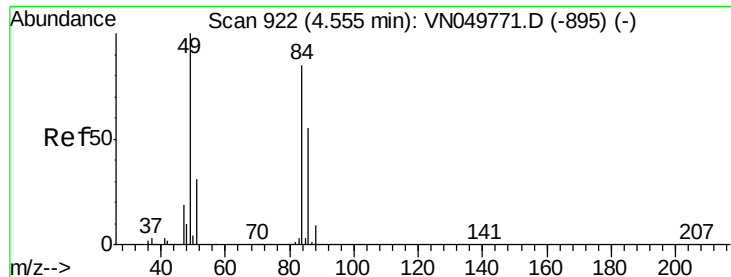
5000

0

Time-->

4.20 4.30 4.40

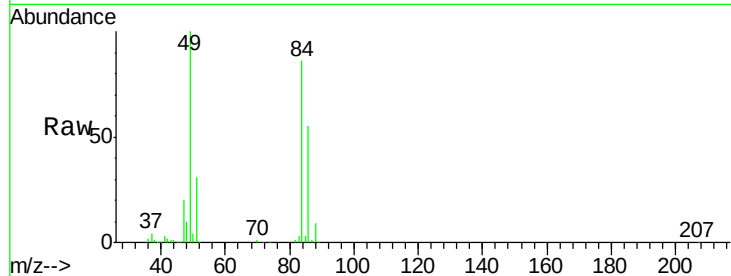




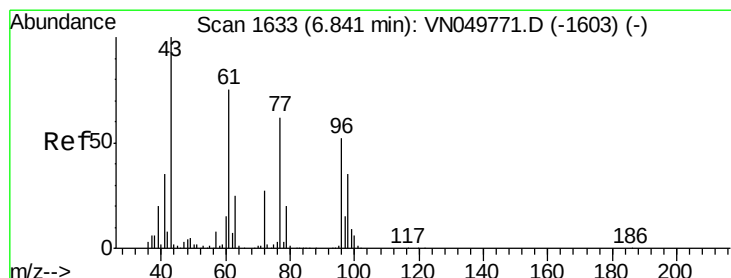
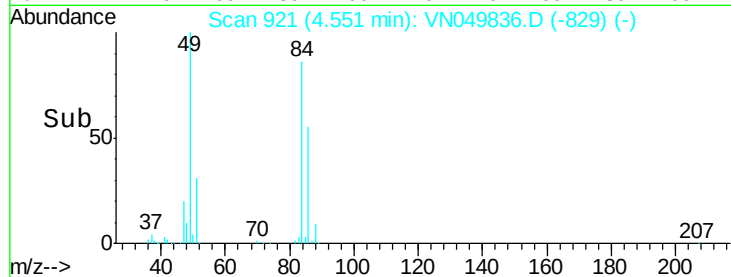
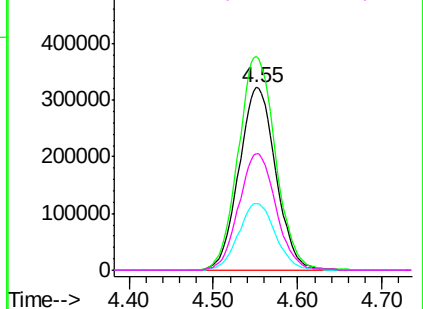
#20  
Methvlene Chloride  
Concen: 69.78 ug/l  
RT: 4.55 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-E-MH-S

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 978624 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 116.8 | 95.4  | 143.2  |
| 51       | 36.6  | 28.4  | 42.6   |
| 86       | 64.0  | 52.6  | 79.0   |

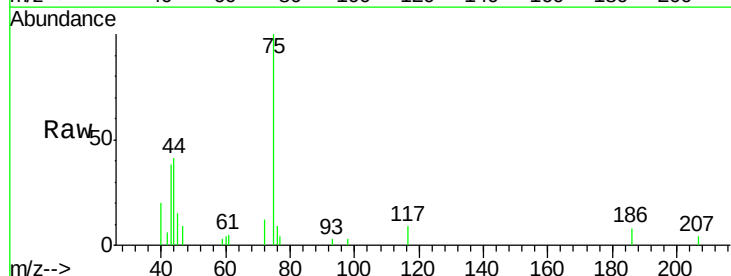


Abundance Ion 83.90 (83.60 to 84.60): VN0  
Ion 48.90 (48.60 to 49.60): VN0  
Ion 50.90 (50.60 to 51.60): VN0  
Ion 85.90 (85.60 to 86.60): VN0

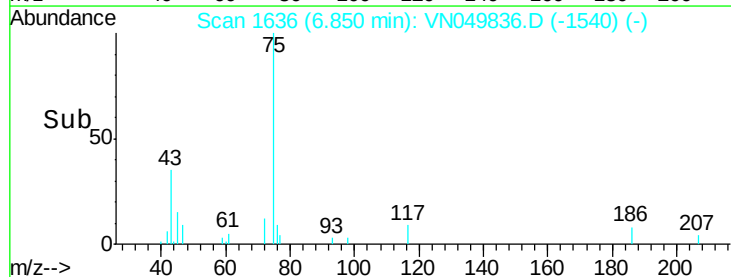
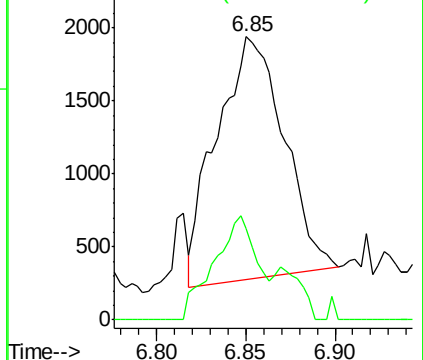


#25  
2-Butanone  
Concen: 0.82 ug/l  
RT: 6.85 min Scan# 1636  
Delta R.T. 0.01 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

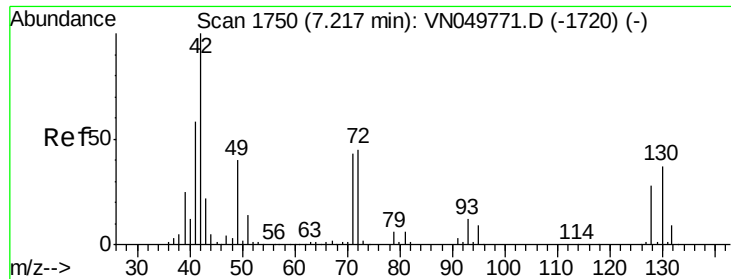
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4372  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 39.8  | 22.1  | 33.1# |



Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 72.00 (71.70 to 72.70): VN0







#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

TP-E-MH-S

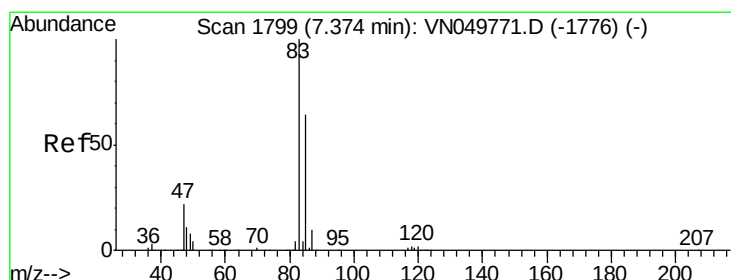
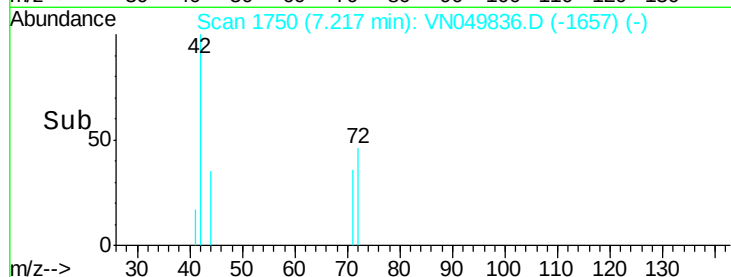
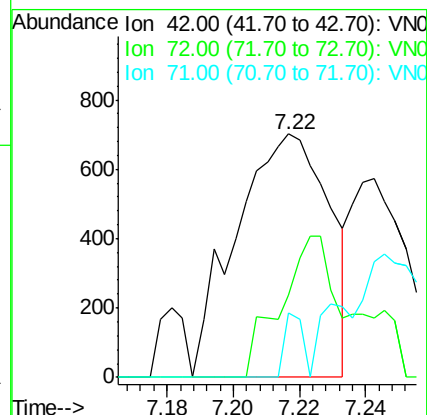
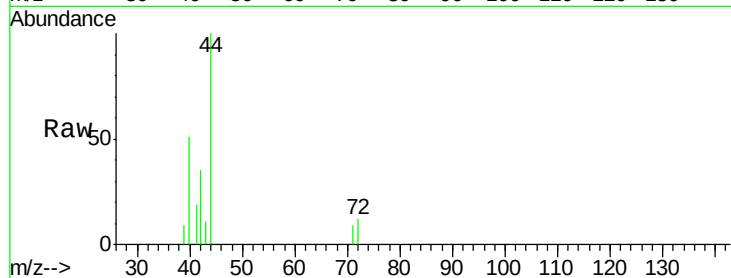
Tot Ion: 42 Resp: 1369

Ion Ratio Lower Upper

42 100

72 35.4 35.6 53.4#

71 5.0 34.0 51.0#



#30

Chloroform

Concen: 1.07 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. -0.00 min

Lab File: VN049836.D

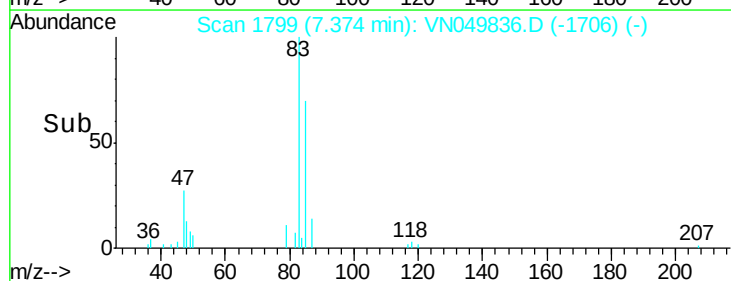
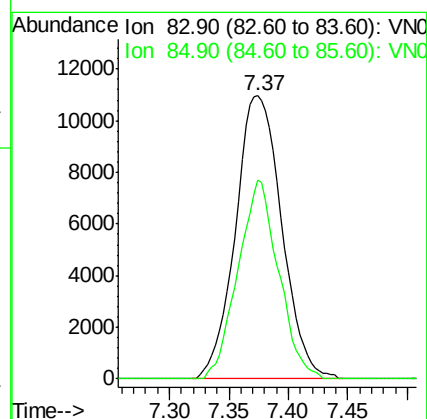
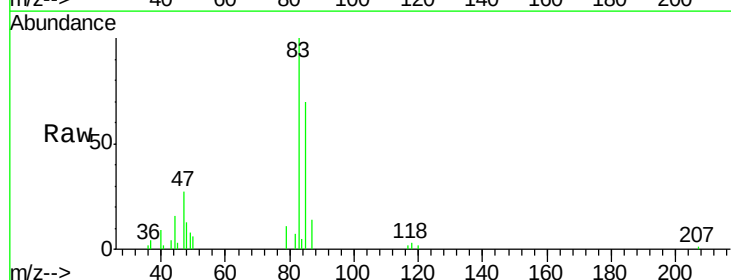
Acq: 14 Jul 2018 8:57

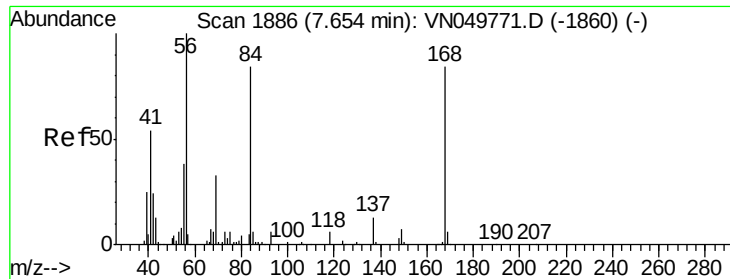
Tgt Ion: 83 Resp: 29532

Ion Ratio Lower Upper

83 100

85 70.5 51.4 77.2

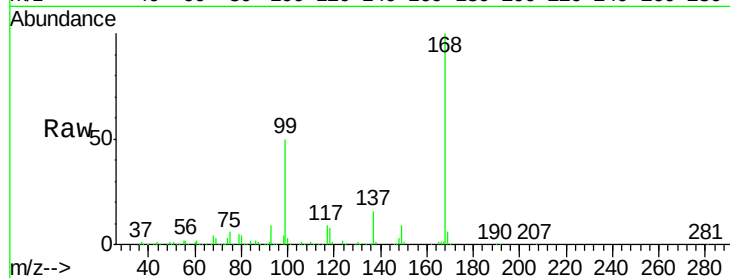




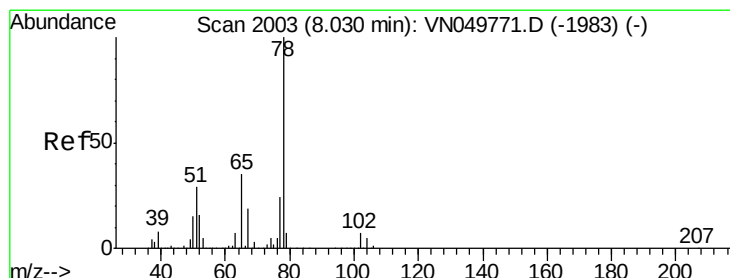
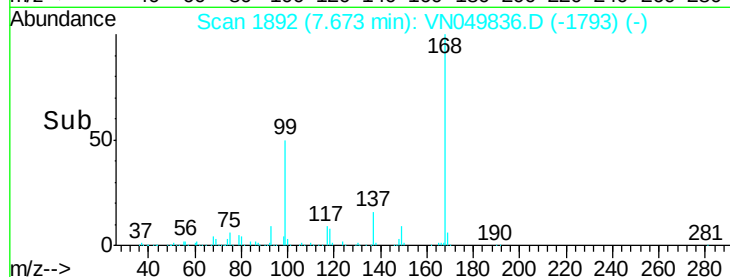
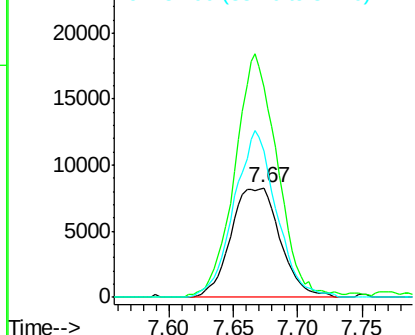
#31  
Cyclohexane  
Concen: 0.78 ug/l  
RT: 7.67 min Scan# 1892  
Delta R.T. 0.02 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-E-MH-S

Tot Ion: 56 Resp: 22005  
Ion Ratio Lower Upper  
56 100  
69 190.0 26.6 40.0#  
84 133.9 69.0 103.6#

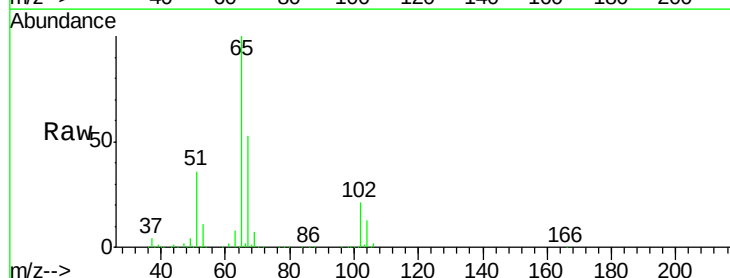


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

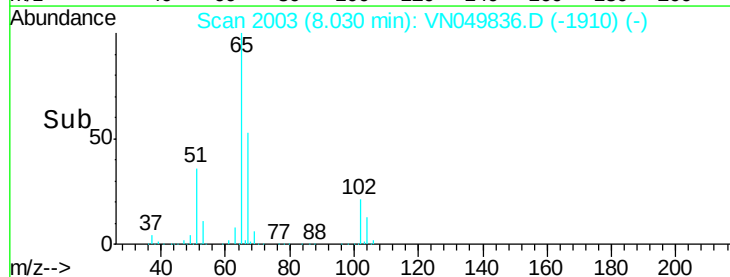
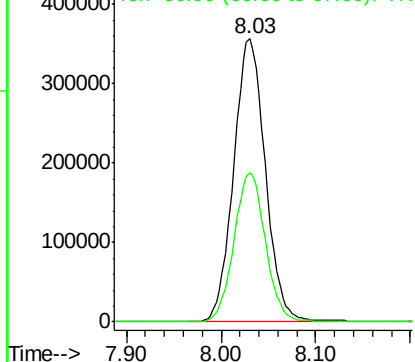


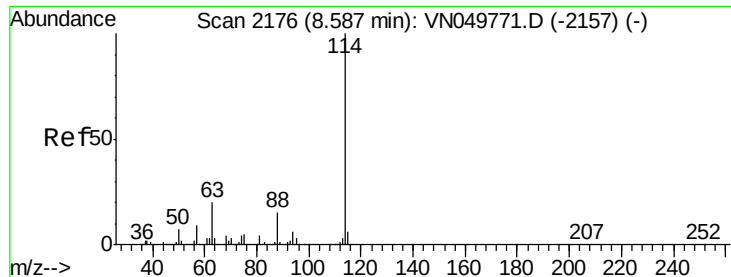
#33  
1,2-Dichloroethane-d4  
Concen: 60.43 ug/l  
RT: 8.03 min Scan# 2003  
Delta R.T. -0.00 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

Tgt Ion: 65 Resp: 830493  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0



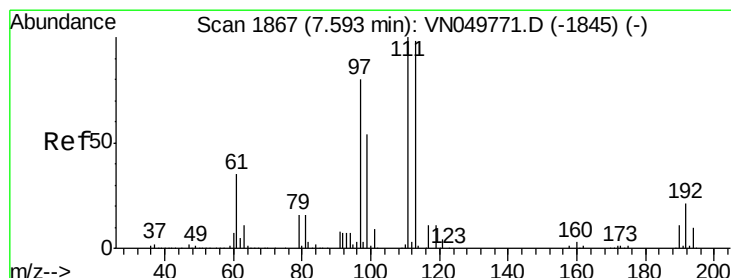
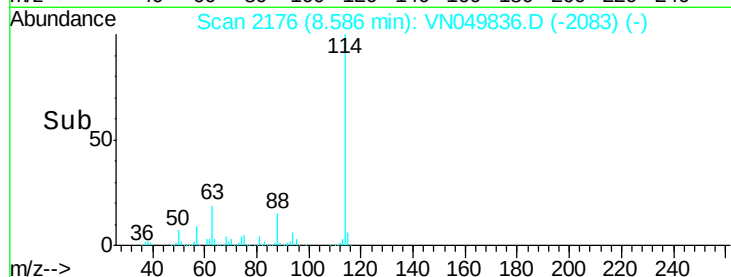
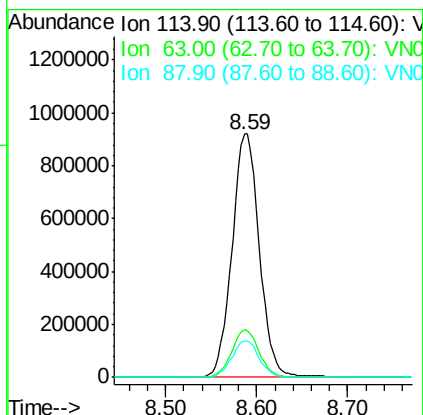
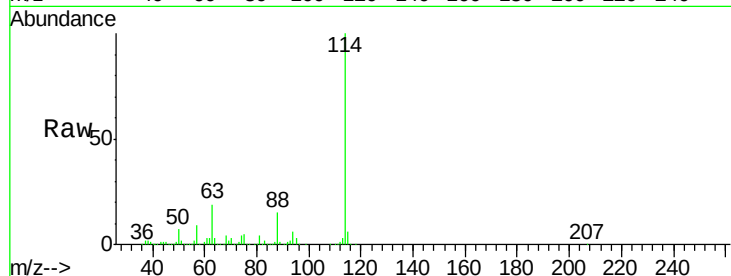


#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-E-MH-S

Tot Ion:114 Resp: 1915228

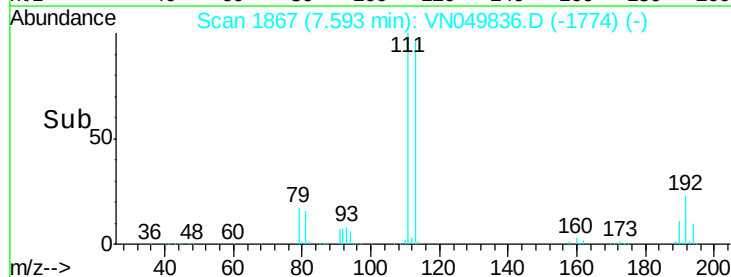
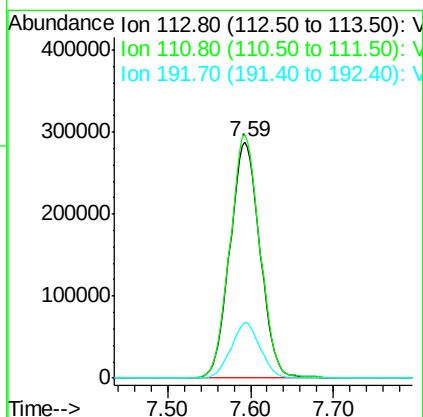
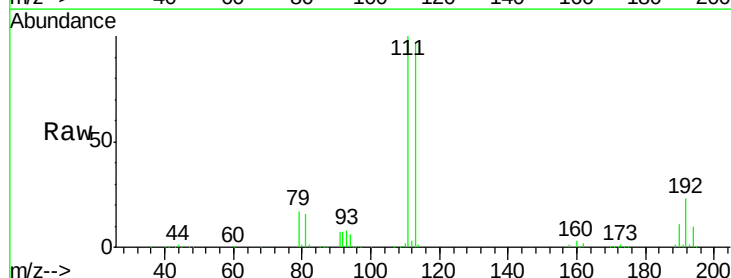
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.4  | 0.0   | 39.8  |
| 88  | 14.9  | 0.0   | 30.6  |

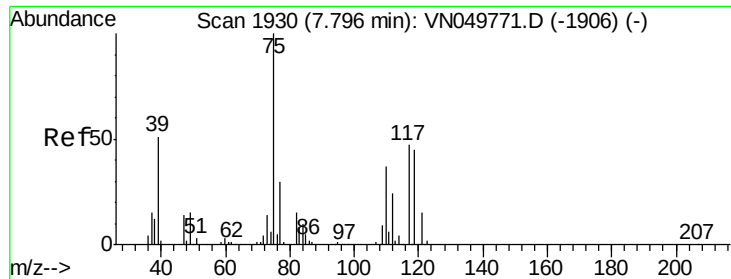


#35  
 Dibromofluoromethane  
 Concen: 50.43 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

Tgt Ion:113 Resp: 727972

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.6 | 81.8  | 122.8 |
| 192 | 22.7  | 17.8  | 26.6  |

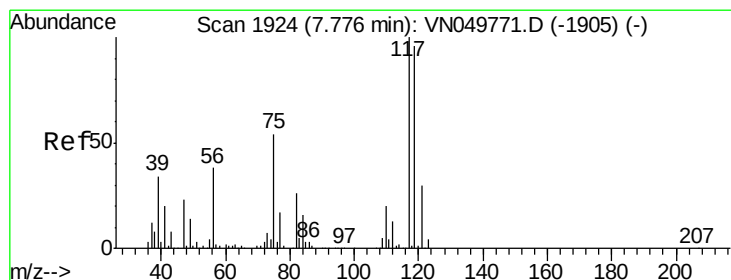
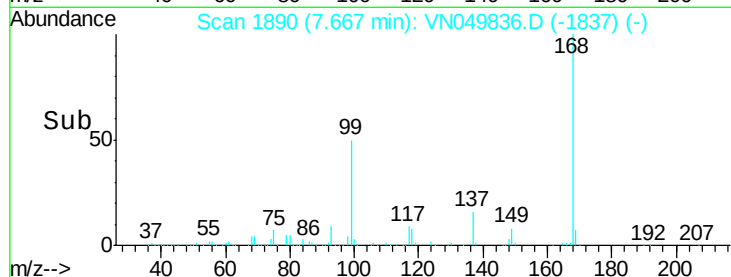
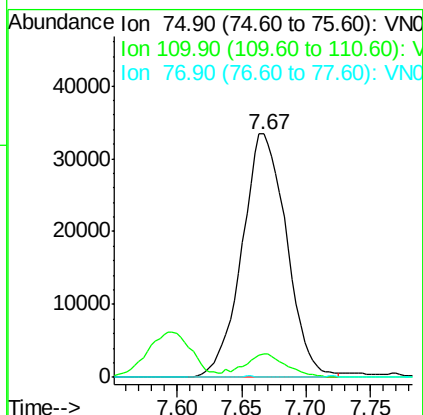
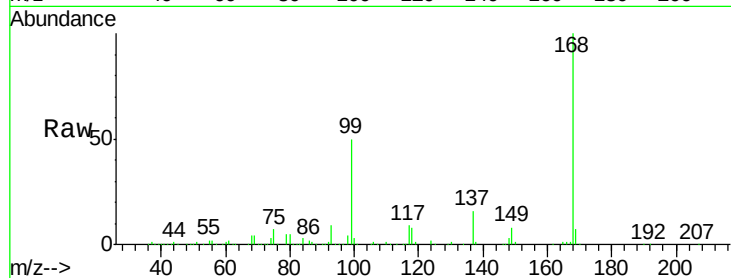




#36  
 1,1-Dichloropropene  
 Concen: 3.66 ug/l  
 RT: 7.67 min Scan# 1890  
 Delta R.T. -0.13 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

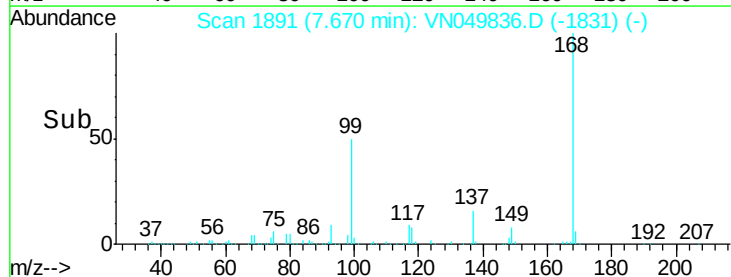
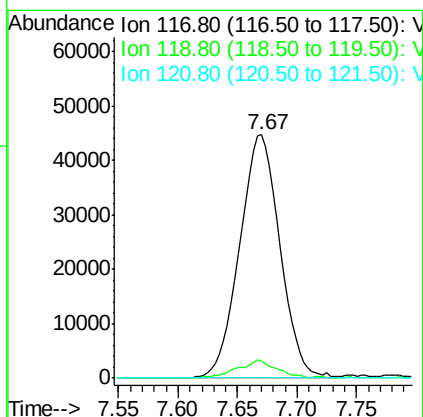
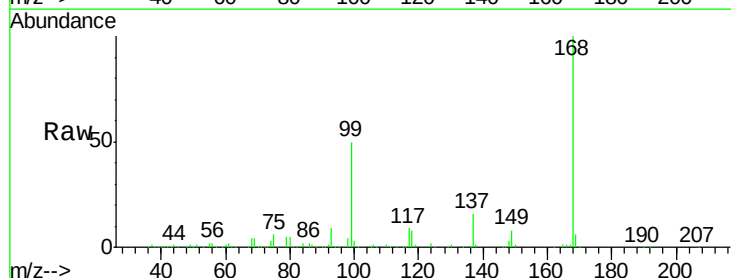
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TP-E-MH-S

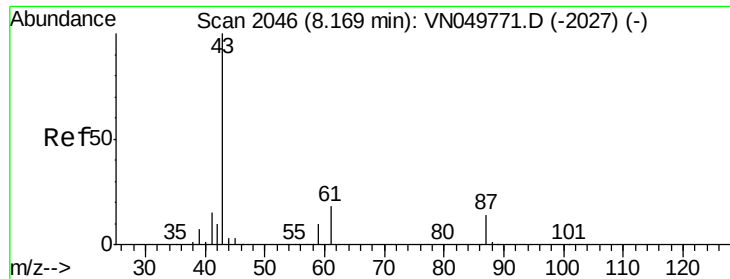
| Tot Ion   | 75    | Resp  | 80709 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.2   | 18.1  | 54.4# |
| 77        | 0.1   | 24.9  | 37.3# |



#38  
 Carbon Tetrachloride  
 Concen: 4.55 ug/l  
 RT: 7.67 min Scan# 1891  
 Delta R.T. -0.11 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

| Tgt Ion   | 117   | Resp  | 104966 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 7.1   | 77.2  | 115.8# |
| 121       | 0.0   | 25.0  | 37.6#  |





#43

Isopropyl Acetate

Concen: 17.65 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

TP-E-MH-S

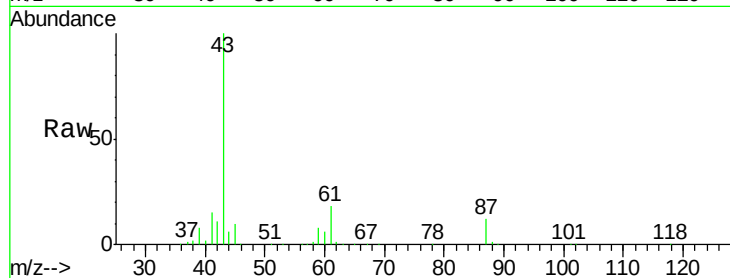
Tot Ion: 43 Resp: 414437

Ion Ratio Lower Upper

43 100

61 17.6 14.9 22.3

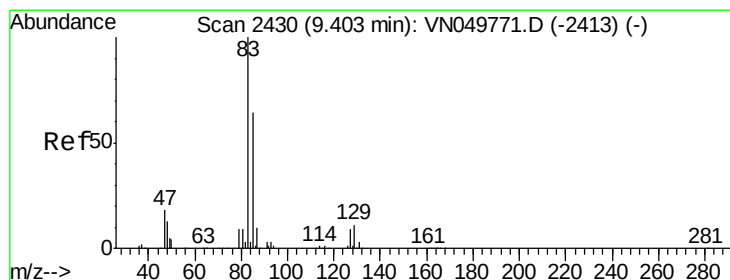
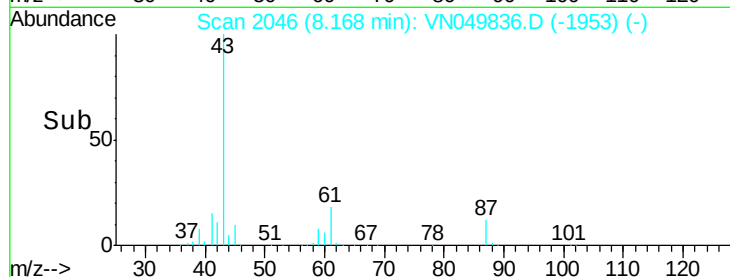
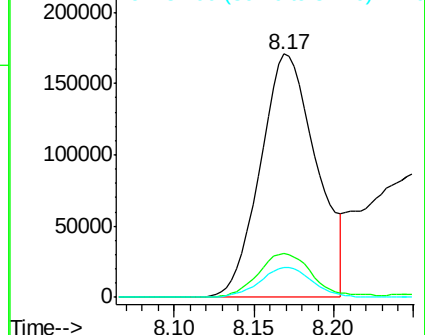
87 11.3 10.0 15.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#47

Bromodichloromethane

Concen: 0.35 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

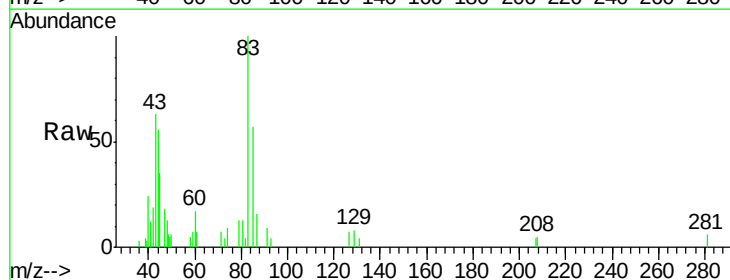
Tgt Ion: 83 Resp: 8230

Ion Ratio Lower Upper

83 100

85 56.6 50.5 75.7

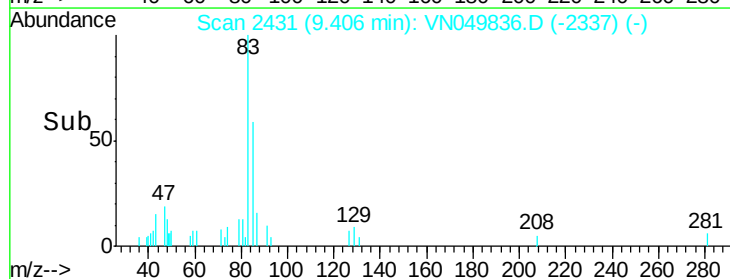
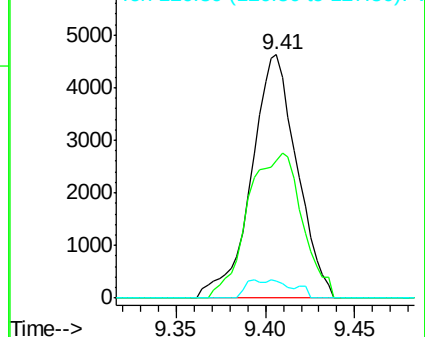
127 7.0 6.8 10.2

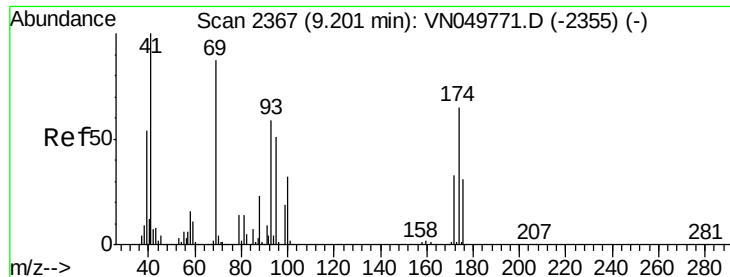


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

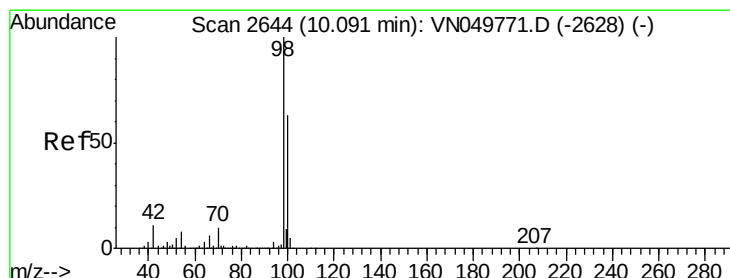
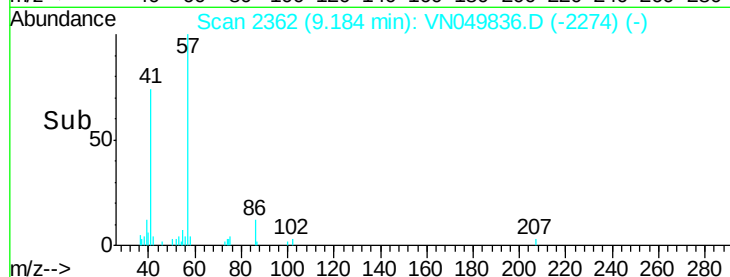
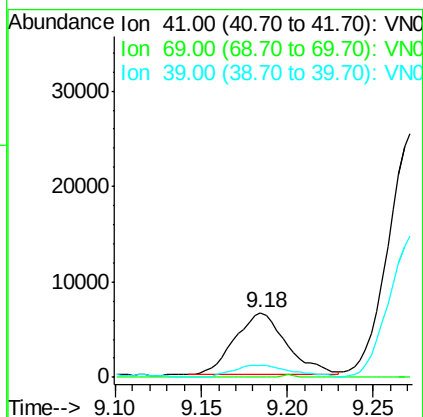
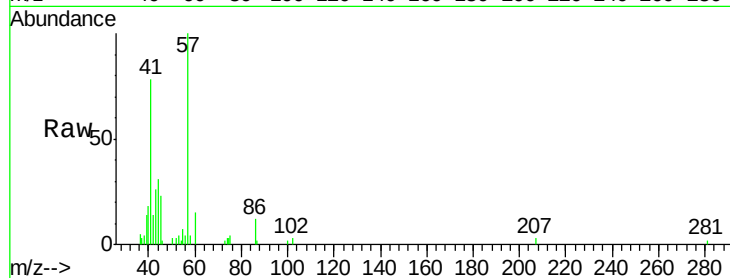




#48  
Methvl methacrylate  
Concen: 1.16 ug/l  
RT: 9.18 min Scan# 2362  
Delta R.T. -0.02 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

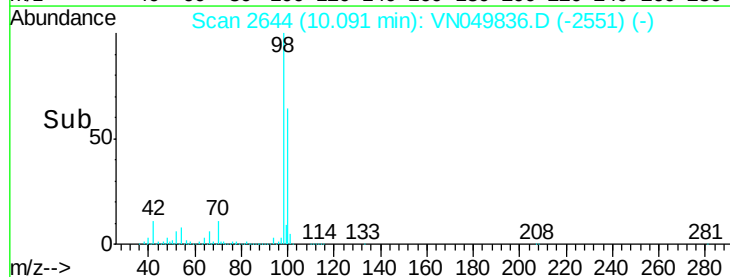
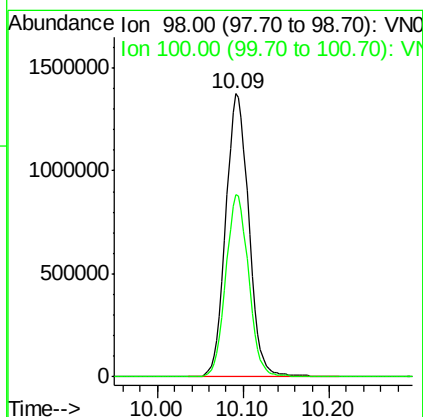
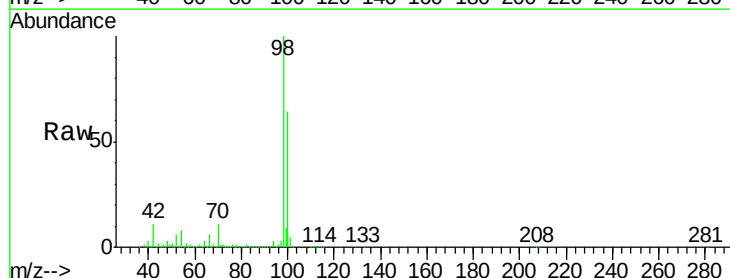
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-E-MH-S

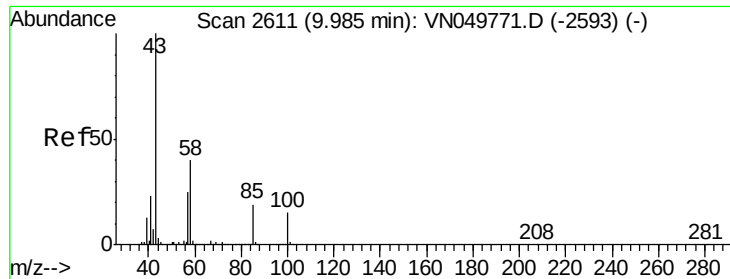
Tot Ion: 41 Resp: 13594  
Ion Ratio Lower Upper  
41 100  
69 1.0 71.5 107.3#  
39 22.4 44.7 67.1#



#50  
Toluene-d8  
Concen: 51.95 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. -0.00 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

Tgt Ion: 98 Resp: 2567248  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.38 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

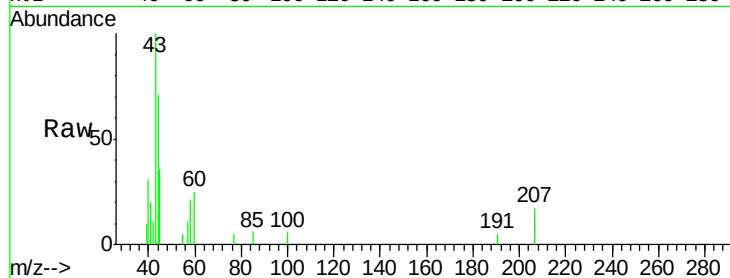
TP-E-MH-S

Tot Ion: 43 Resp: 4789

Ion Ratio Lower Upper

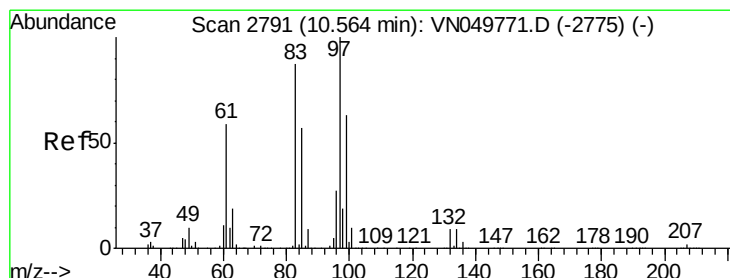
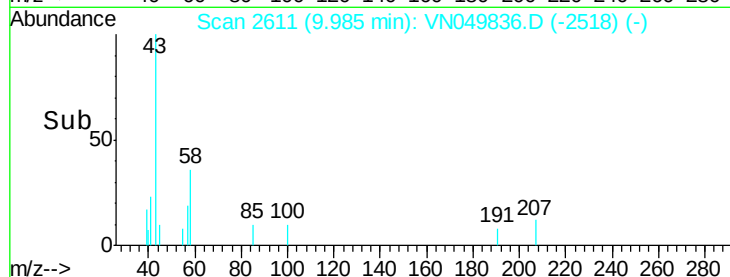
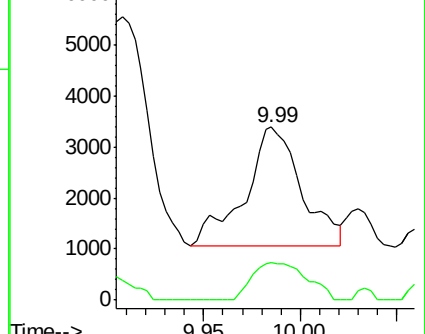
43 100

58 29.9 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#55

1,1,2-Trichloroethane

Concen: Below Cal

RT: 10.57 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Tgt Ion: 97 Resp: 1298

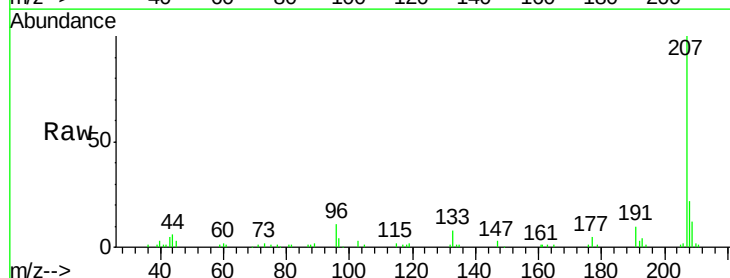
Ion Ratio Lower Upper

97 100

83 0.0 69.0 103.6#

85 0.0 44.9 67.3#

99 0.0 49.8 74.6#

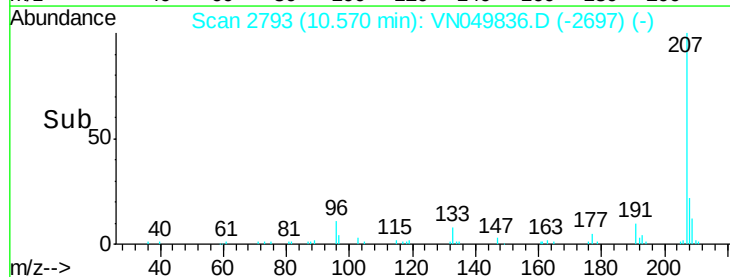
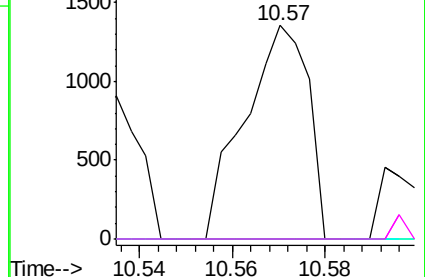


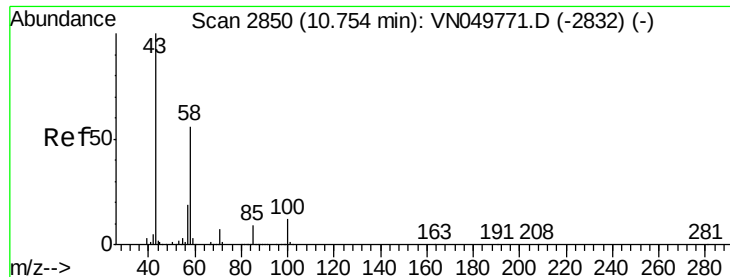
Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0





#59

2-Hexanone

Concen: 3.88 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampleId :

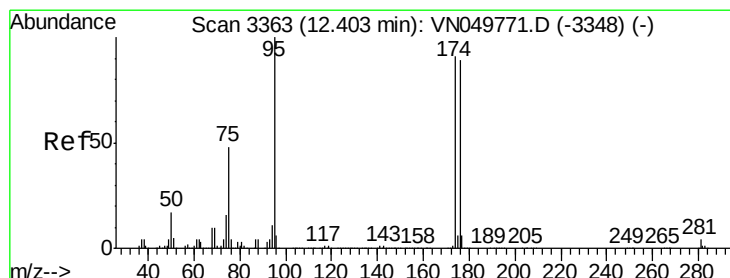
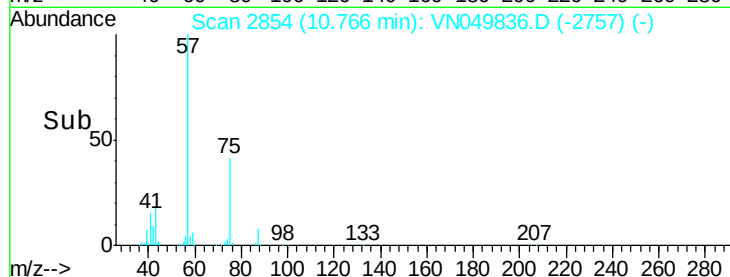
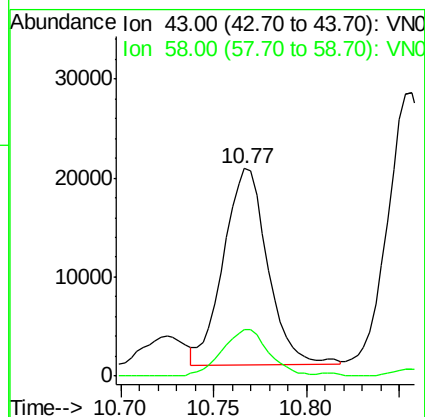
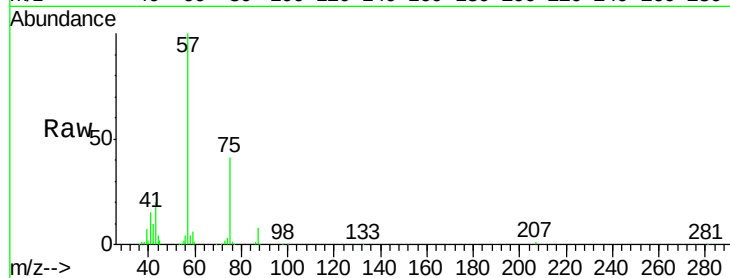
TP-E-MH-S

Tot Ion: 43 Resp: 32916

Ion Ratio Lower Upper

43 100

58 25.1 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 40.64 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

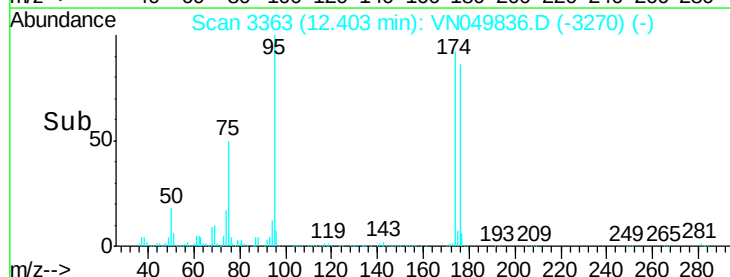
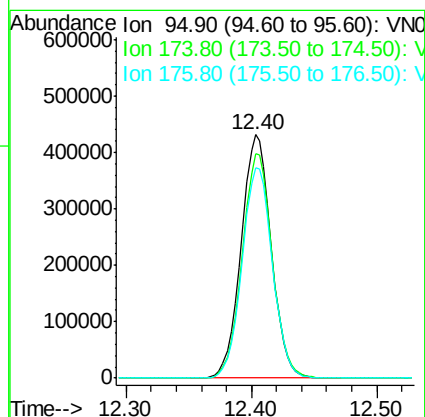
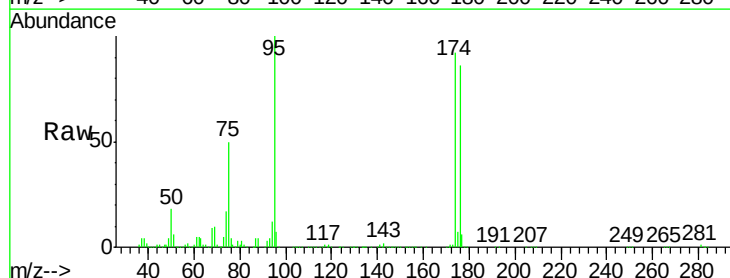
Tgt Ion: 95 Resp: 717294

Ion Ratio Lower Upper

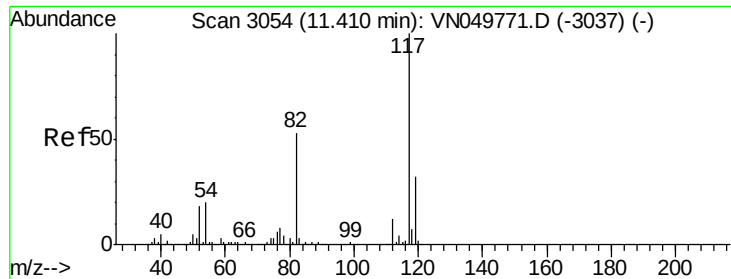
95 100

174 92.6 0.0 179.6

176 87.5 0.0 174.0



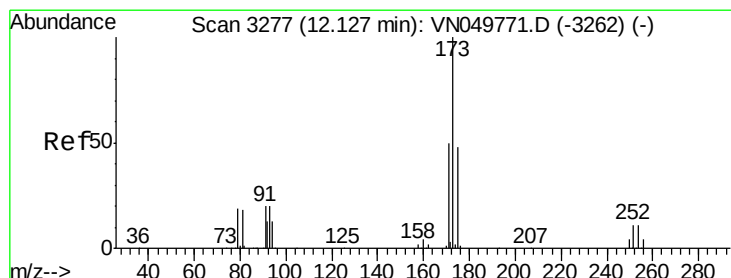
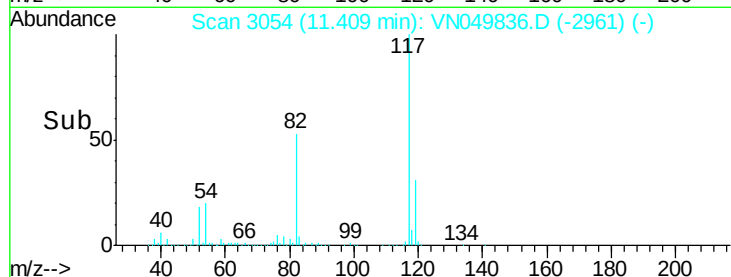
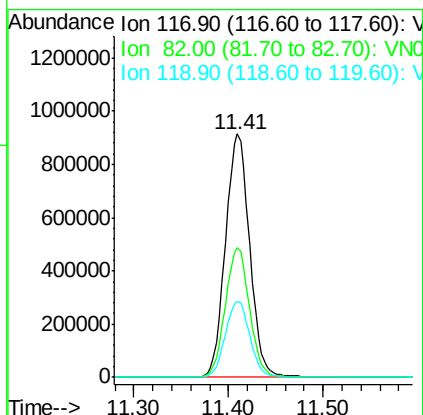
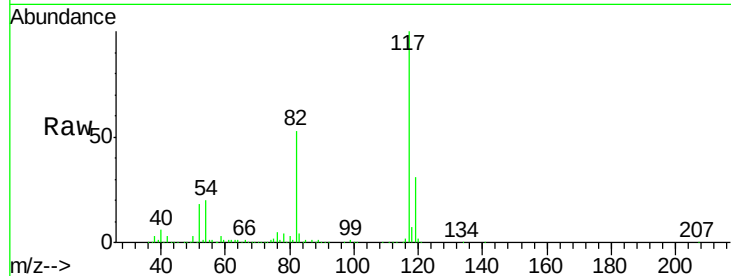




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

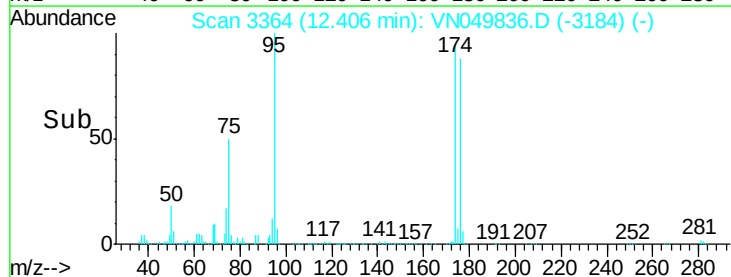
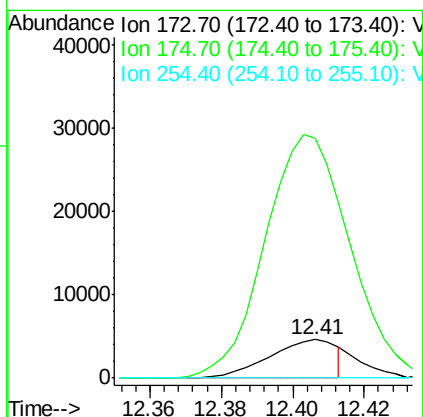
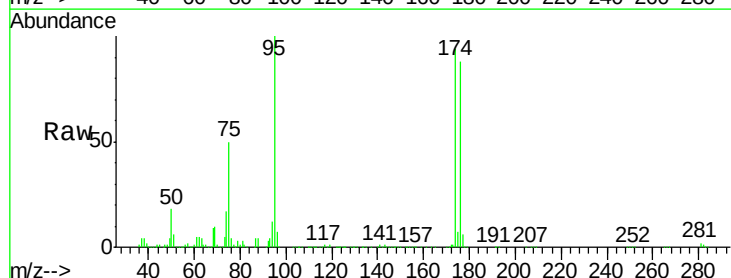
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-E-MH-S

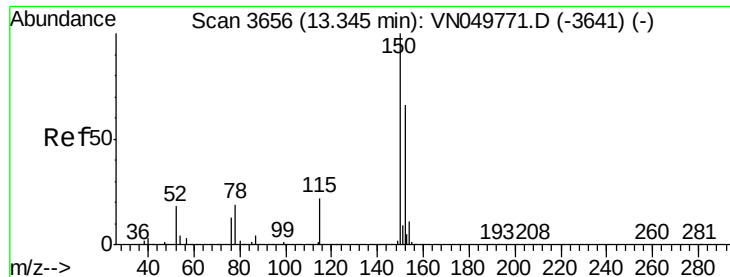
Tot Ion:117 Resp: 1628682  
Ion Ratio Lower Upper  
117 100  
82 53.4 41.9 62.9  
119 31.4 25.4 38.2



#71  
Bromoform  
Concen: 0.56 ug/l  
RT: 12.41 min Scan# 3364  
Delta R.T. 0.28 min  
Lab File: VN049836.D  
Acq: 14 Jul 2018 8:57

Tgt Ion:173 Resp: 6090  
Ion Ratio Lower Upper  
173 100  
175 645.8 24.6 73.8#  
254 0.0 0.2 0.2#

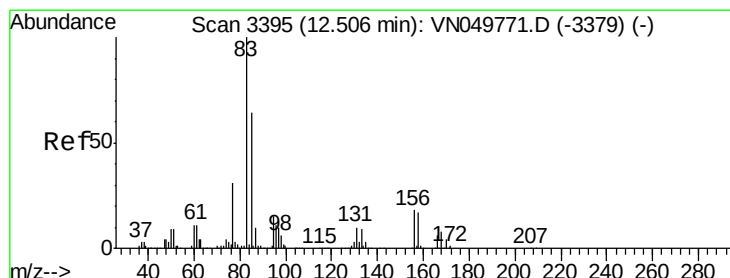
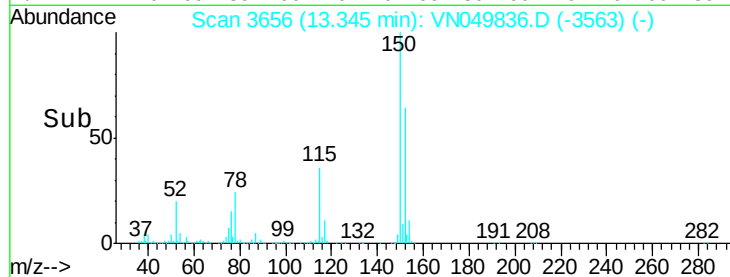
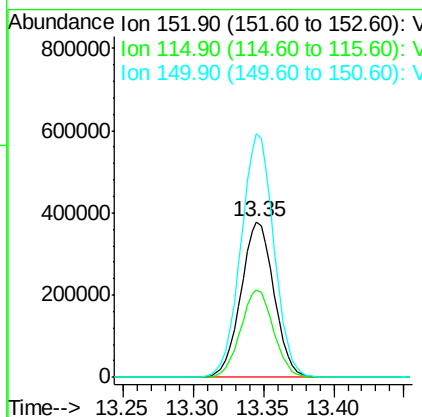
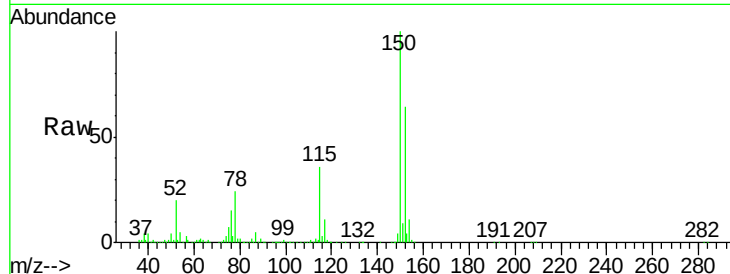




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.35 min Scan# 3656  
 Delta R.T. -0.00 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

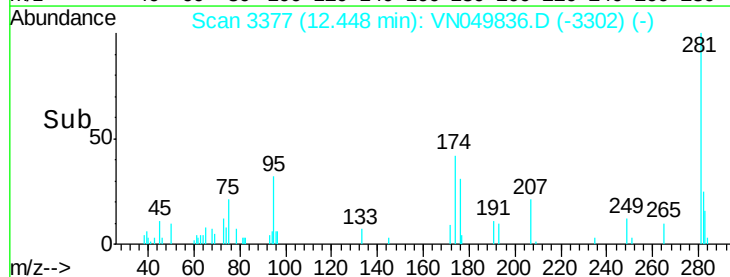
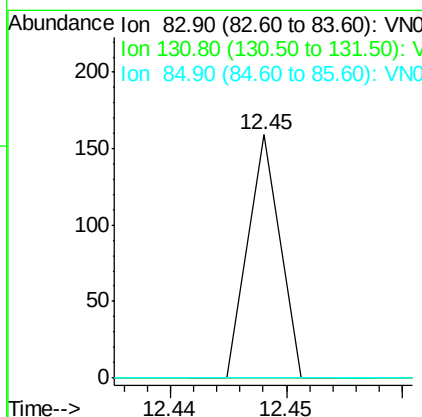
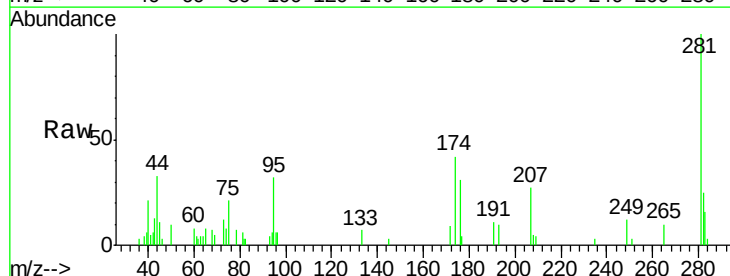
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-E-MH-S

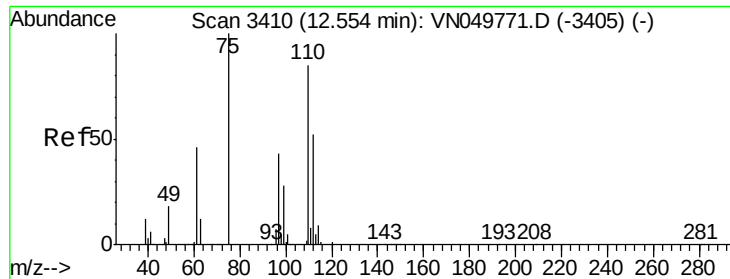
Tot Ion:152 Resp: 621030  
 Ion Ratio Lower Upper  
 152 100  
 115 55.7 28.1 84.2  
 150 156.0 0.0 347.6



#75  
 1,1,2,2-Tetrachloroethane  
 Concen: Below Cal  
 RT: 12.45 min Scan# 3377  
 Delta R.T. -0.06 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

Tgt Ion: 83 Resp: 31  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 5.2 15.6#  
 85 0.0 32.5 97.4#

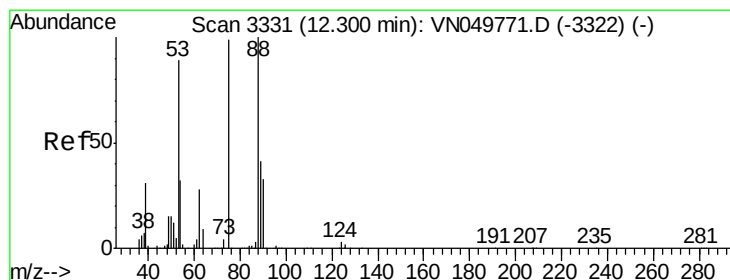
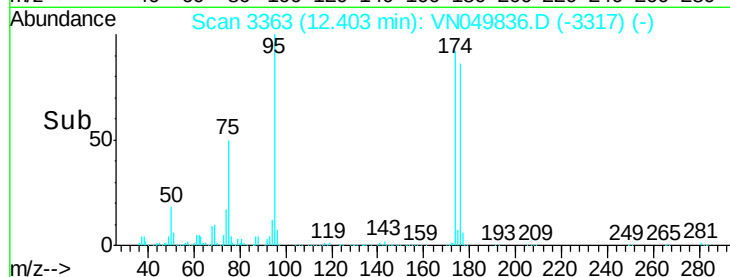
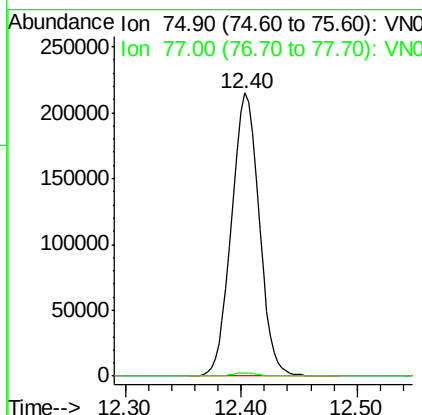
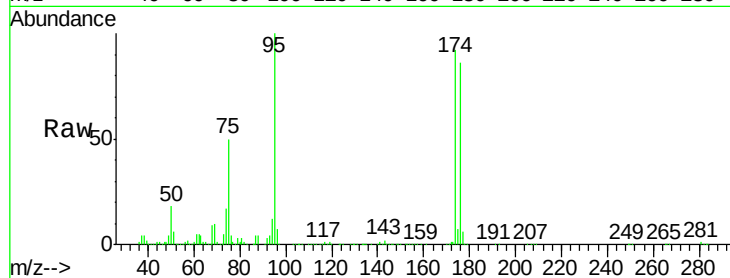




#76  
 1,2,3-Trichloropropane  
 Concen: 32.07 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. -0.15 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

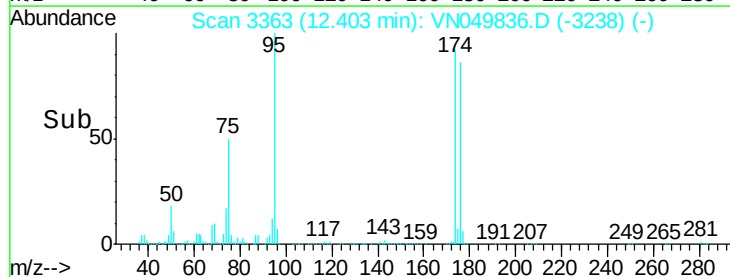
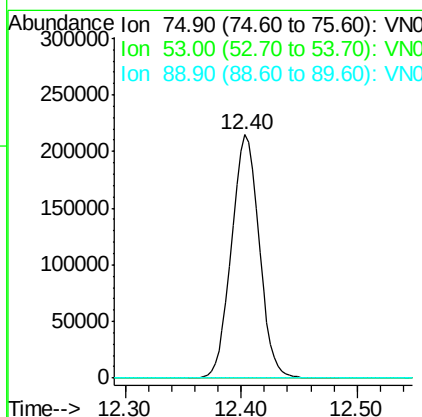
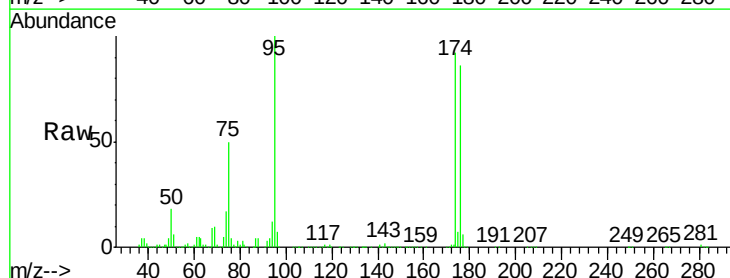
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-E-MH-S

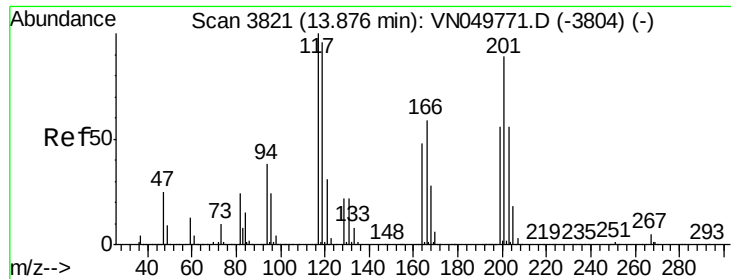
Tot Ion: 75 Resp: 353825  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 103.57 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. 0.10 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

Tgt Ion: 75 Resp: 353825  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 73.9 110.9#  
 89 0.0 35.9 53.9#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3825

Delta R.T. 0.01 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

Instrument :

MSVOA\_N

ClientSampled :

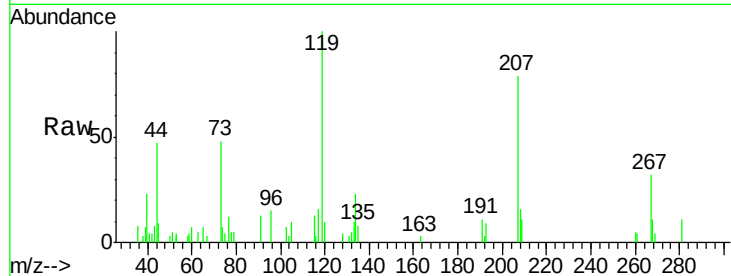
TP-E-MH-S

Tot Ion:117 Resp: 1307

Ion Ratio Lower Upper

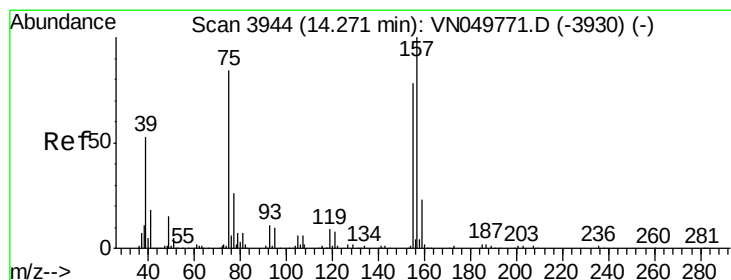
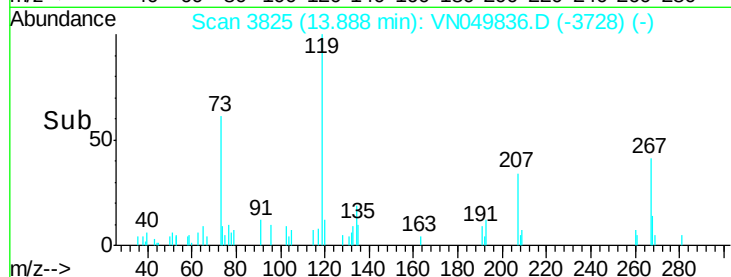
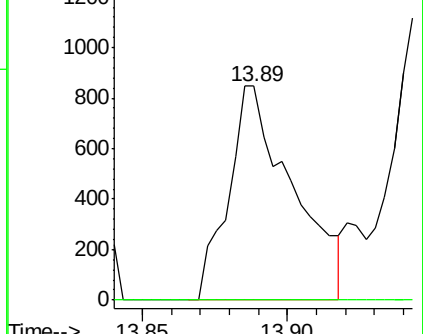
117 100

201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN049836.D

Acq: 14 Jul 2018 8:57

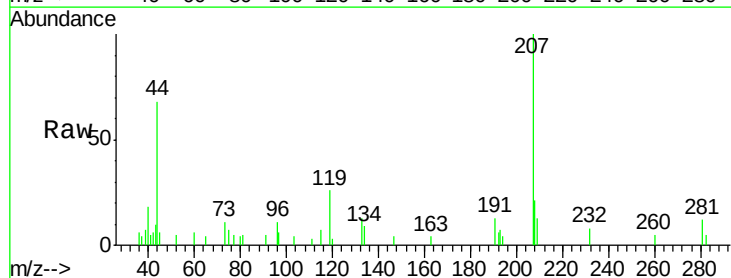
Tgt Ion: 75 Resp: 303

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

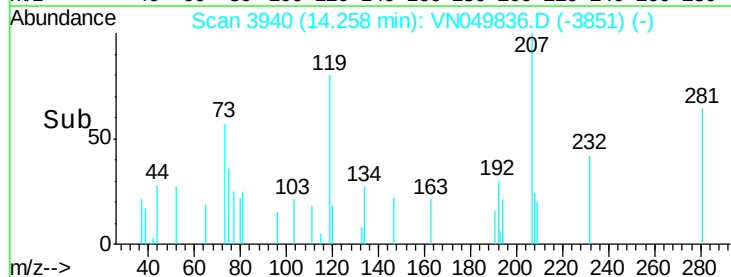
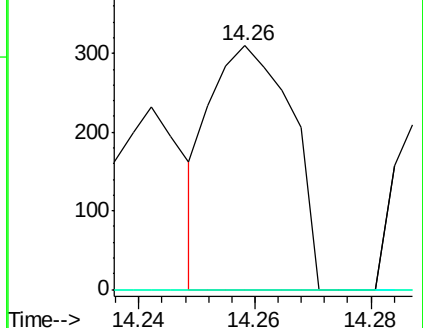
157 0.0 56.9 170.7#

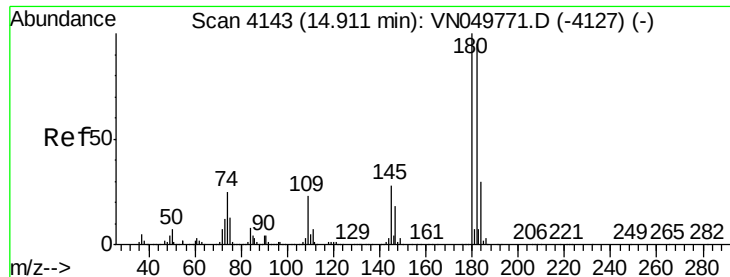


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

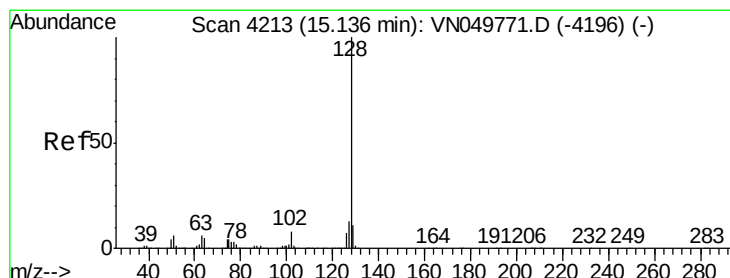
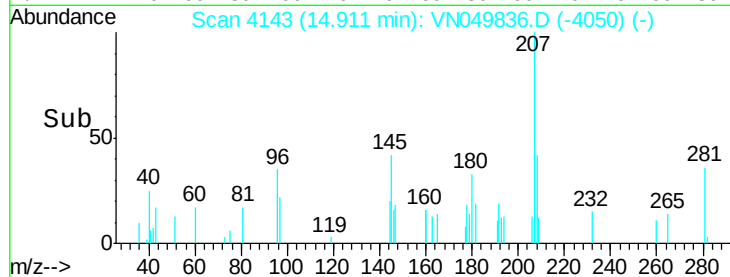
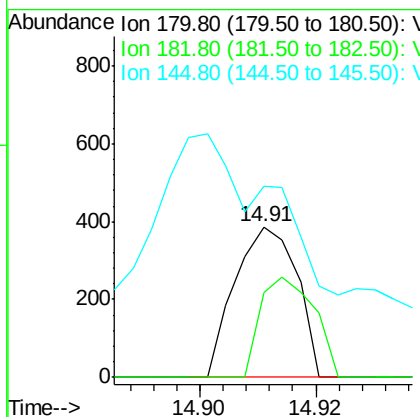
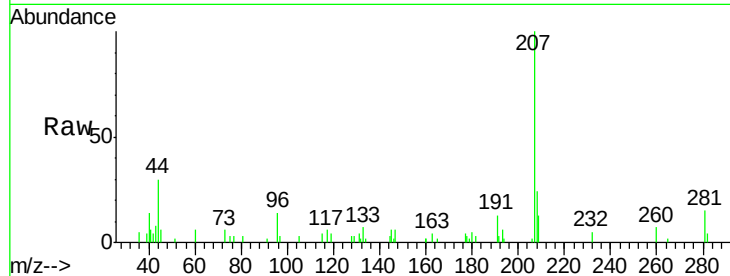




#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.91 ug/l  
 RT: 14.91 min Scan# 4143  
 Delta R.T. -0.00 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TP-E-MH-S

Tot Ion:180 Resp: 285  
 Ion Ratio Lower Upper  
 180 100  
 182 58.2 47.3 141.9  
 145 420.0 14.4 43.0#



#95  
 Naphthalene  
 Concen: 6.14 ug/l  
 RT: 15.14 min Scan# 4213  
 Delta R.T. 0.00 min  
 Lab File: VN049836.D  
 Acq: 14 Jul 2018 8:57

Tgt Ion:128 Resp: 63247  
 Ion Ratio Lower Upper  
 128 100  
 127 13.9 10.4 15.6  
 129 11.7 8.6 13.0

