

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\  
 Data File : VN051013.D  
 Acq On : 4 Sep 2018 12:38  
 Operator : MD\SY  
 Sample : PB112553TB  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112553TB

Quant Time: Sep 05 01:07:01 2018  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 581686   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 902097   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 789154   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 242221   | 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   | 366908   | 52.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.80% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 355940   | 49.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.20%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1254823  | 46.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.54%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 328676   | 36.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 73.72%  |          |

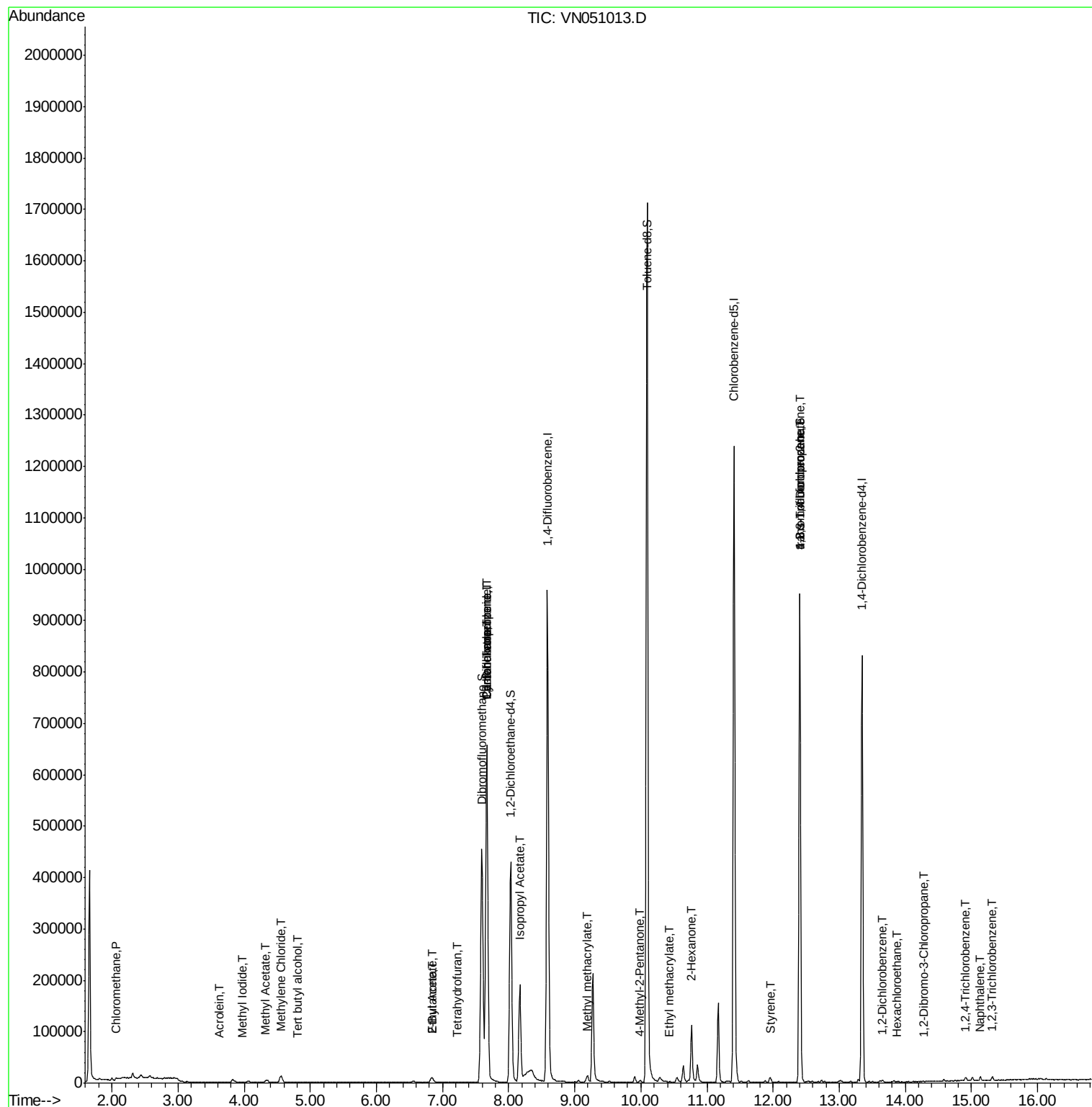
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.06  | 50   | 2648     | 0.28      | ug/l # | 88     |
| 5) Bromomethane                | 2.57  | 94   | 3056     | Below Cal | #      | 70     |
| 10) Methyl Iodide              | 3.96  | 142  | 818      | 6.45      | ug/l # | 43     |
| 11) Tert butyl alcohol         | 4.80  | 59   | 539      | 1.21      | ug/l # | 72     |
| 13) Acrolein                   | 3.62  | 56   | 60       | 18.13     | ug/l # | 14     |
| 16) Acetone                    | 3.83  | 43   | 10499    | Below Cal |        | 93     |
| 18) Methyl Acetate             | 4.33  | 43   | 5409     | 0.82      | ug/l # | 69     |
| 20) Methylene Chloride         | 4.55  | 84   | 4632     | 0.59      | ug/l   | 93     |
| 25) 2-Butanone                 | 6.85  | 43   | 7850     | 2.78      | ug/l   | 97     |
| 29) Tetrahydrofuran            | 7.23  | 42   | 1149     | 0.71      | ug/l # | 51     |
| 31) Cyclohexane                | 7.67  | 56   | 9864     | 1.29      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 37905    | 3.56      | ug/l # | 49     |
| 37) Ethyl Acetate              | 6.85  | 43   | 7850     | 1.28      | ug/l # | 67     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 49888    | 4.64      | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 218741   | 20.80     | ug/l   | 99     |
| 48) Methyl methacrylate        | 9.18  | 41   | 7031     | 1.31      | ug/l # | 21     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 2328     | 0.37      | ug/l   | 88     |
| 56) Ethyl methacrylate         | 10.43 | 69   | 286      | 2.38      | ug/l # | 70     |
| 59) 2-Hexanone                 | 10.76 | 43   | 20417    | 4.89      | ug/l # | 59     |
| 70) Styrene                    | 11.97 | 104  | 1184     | 1.32      | ug/l # | 81     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 488      | Below Cal | #      | 93     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 152633   | 35.98     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 152633   | 121.62    | ug/l # | 15     |
| 90) Hexachloroethane           | 13.88 | 117  | 62       | 0.21      | ug/l # | 4      |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 2162     | 0.24      | ug/l   | 94     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 174      | 0.24      | ug/l # | 45     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 2991     | 4.67      | ug/l   | 95     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 1445     | Below Cal |        | 96     |
| 95) Naphthalene                | 15.14 | 128  | 6736     | 6.02      | ug/l # | 93     |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 3148     | 3.97      | ug/l   | 99     |

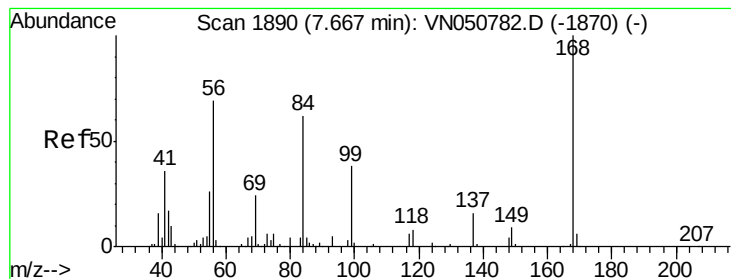
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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PB112553TB

Quant Time: Sep 05 01:07:01 2018  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082118W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 05:38:12 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: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampled :

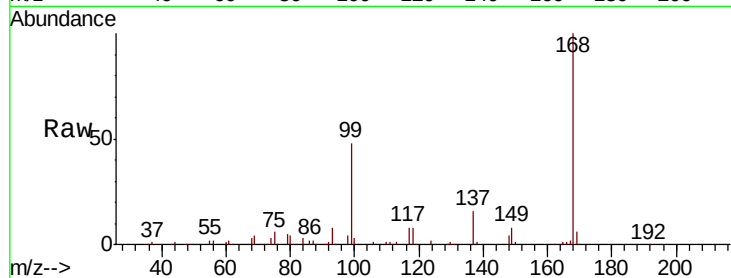
PB112553TB

Tot Ion:168 Resp: 581686

Ion Ratio Lower Upper

168 100

99 48.3 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

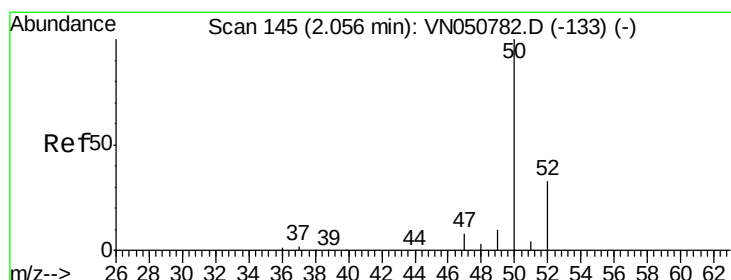
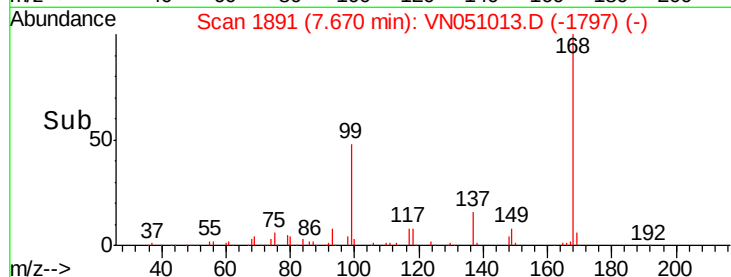
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.28 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN051013.D

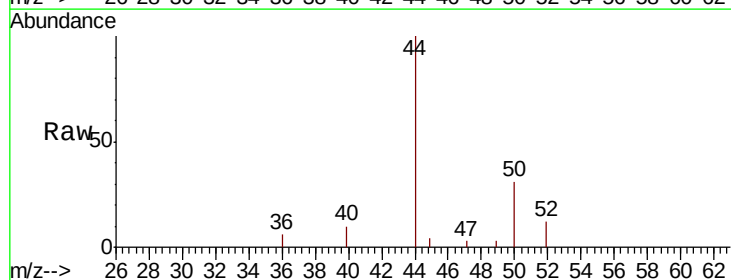
Acq: 4 Sep 2018 12:38

Tgt Ion: 50 Resp: 2648

Ion Ratio Lower Upper

50 100

52 39.9 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

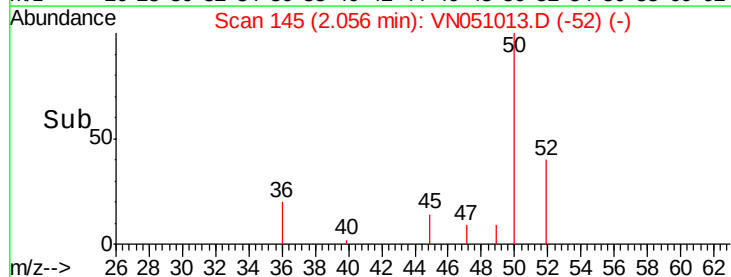
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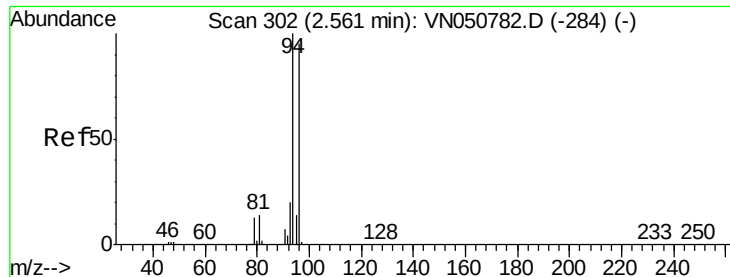
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

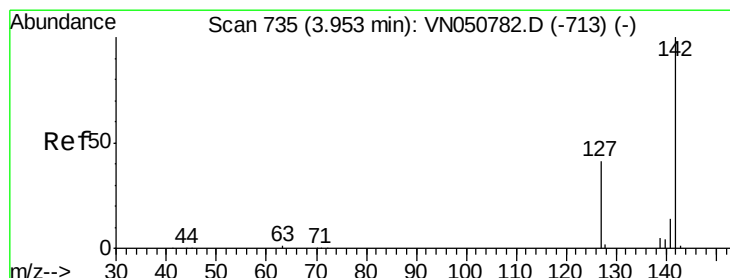
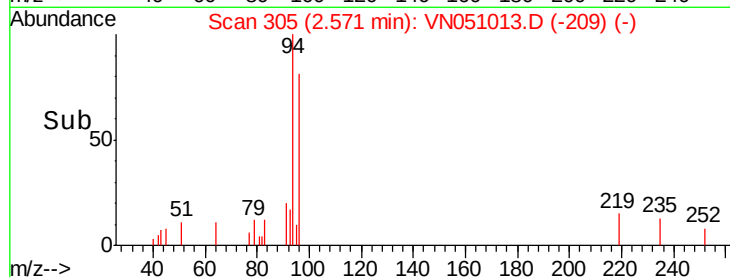
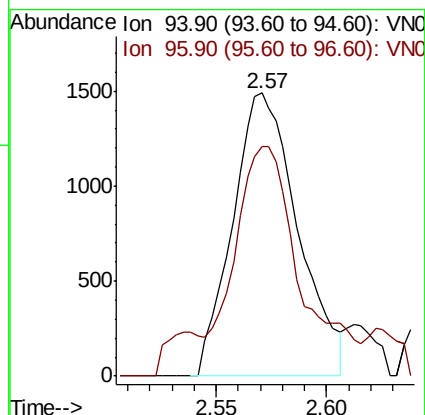
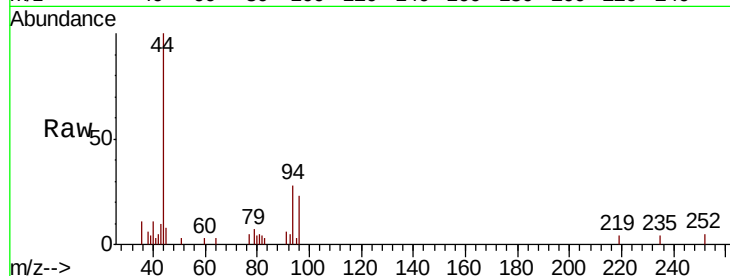
PB112553TB

Tot Ion: 94 Resp: 3056

Ion Ratio Lower Upper

94 100

96 65.6 76.2 114.2#



#10

Methyl Iodide

Concen: 6.45 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

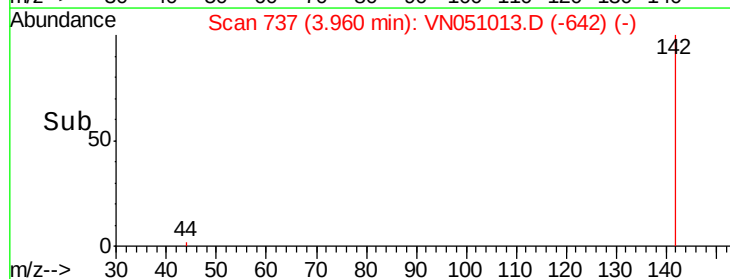
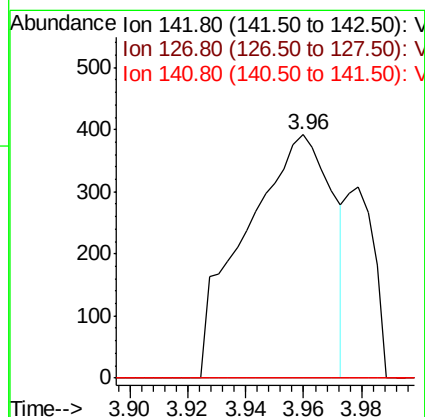
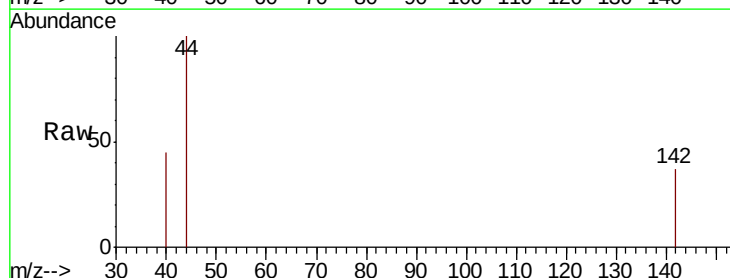
Tgt Ion: 142 Resp: 818

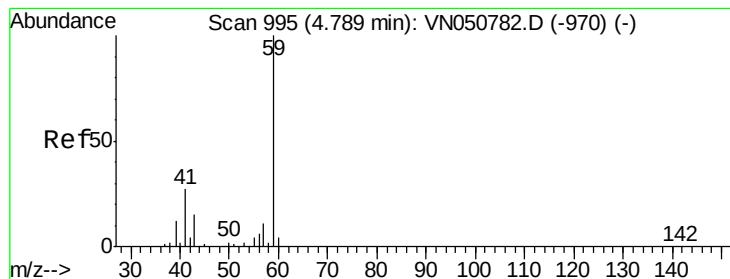
Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.4 17.0#





#11

Tert butyl alcohol

Concen: 1.21 ug/l

RT: 4.80 min Scan# 998

Delta R.T. 0.01 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

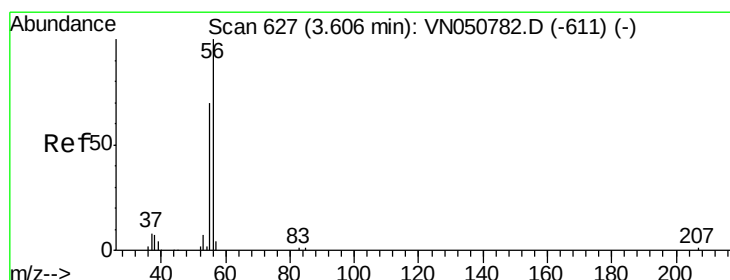
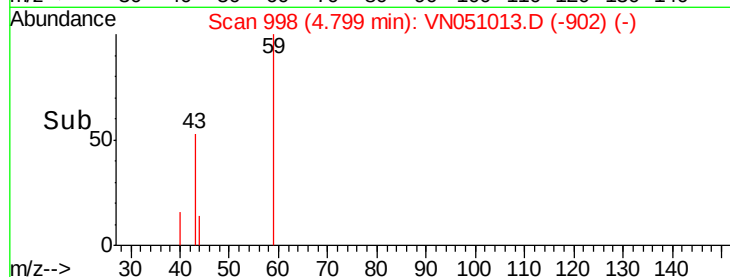
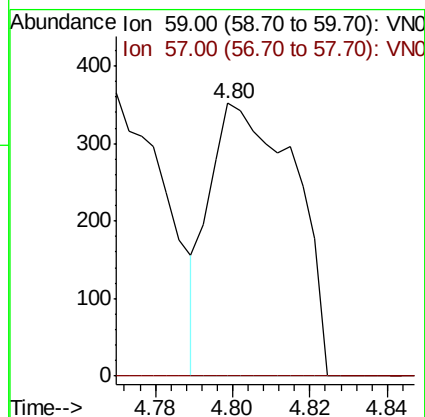
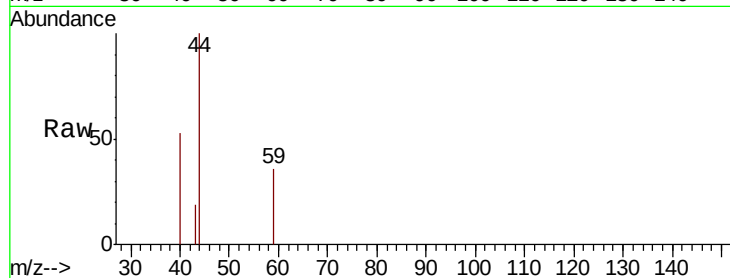
PB112553TB

Tot Ion: 59 Resp: 539

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 18.13 ug/l

RT: 3.62 min Scan# 632

Delta R.T. 0.02 min

Lab File: VN051013.D

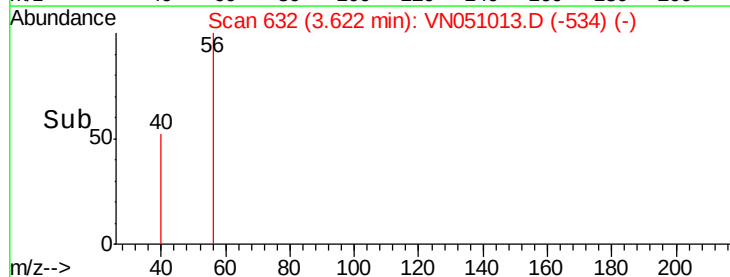
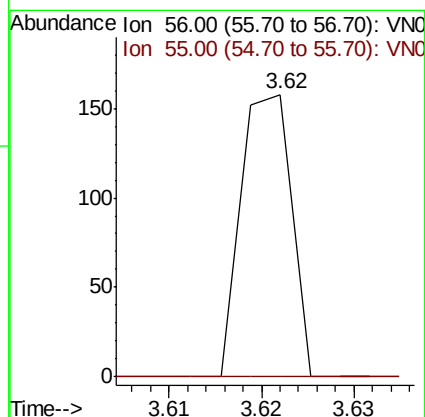
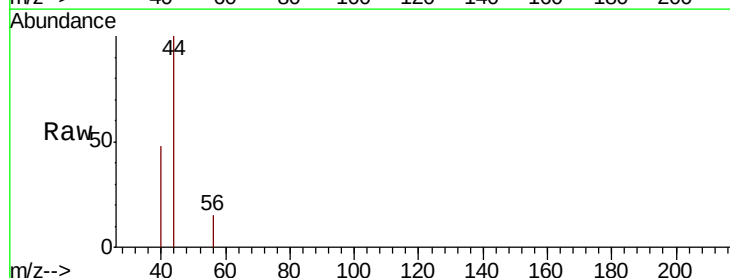
Acq: 4 Sep 2018 12:38

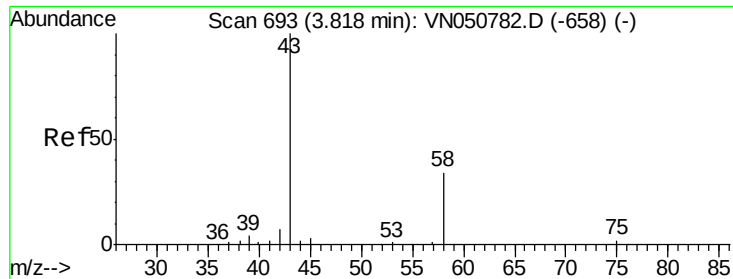
Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 0.0 57.7 86.5#





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampled :

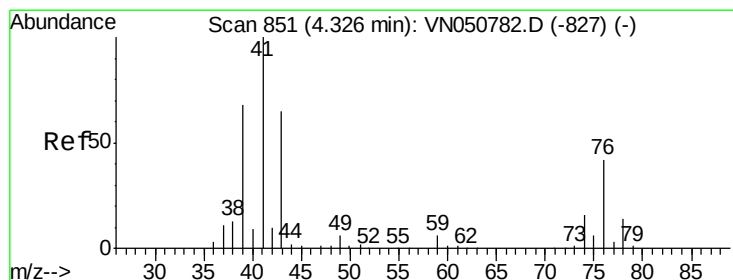
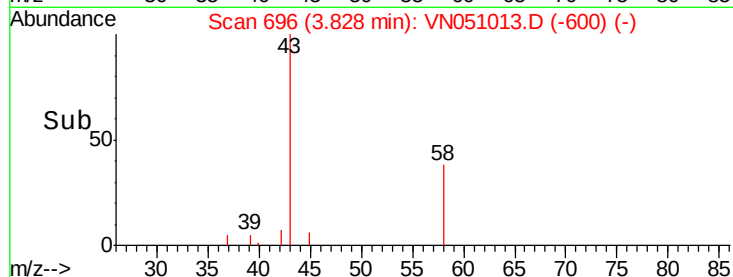
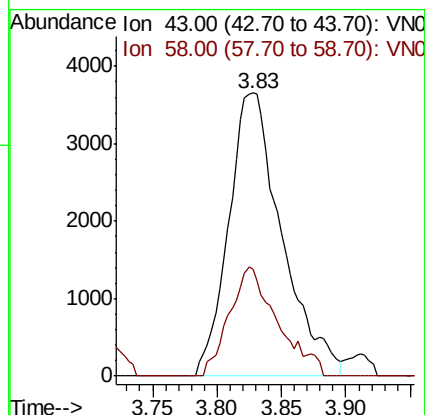
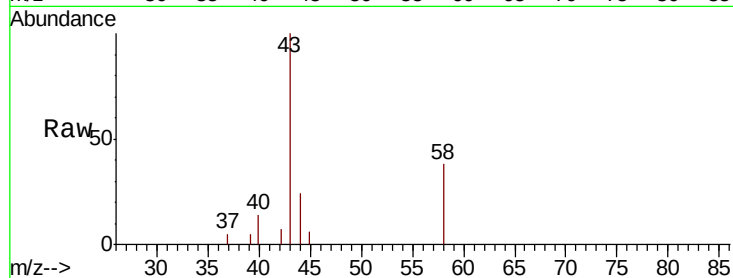
PB112553TB

Tot Ion: 43 Resp: 10499

Ion Ratio Lower Upper

43 100

58 37.8 27.2 40.8



#18

Methyl Acetate

Concen: 0.82 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN051013.D

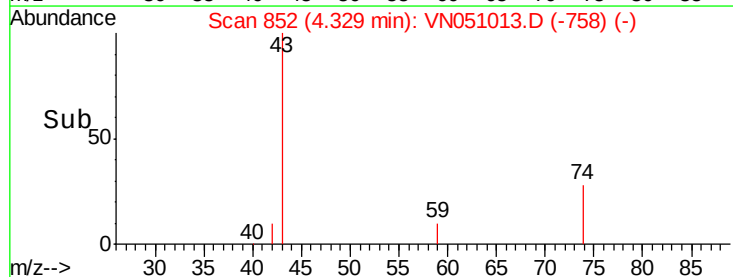
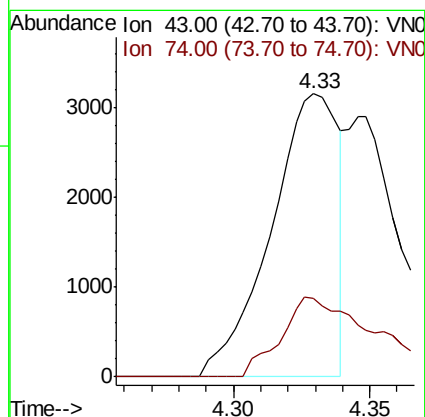
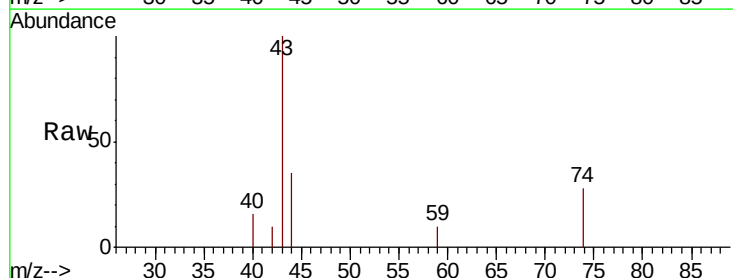
Acq: 4 Sep 2018 12:38

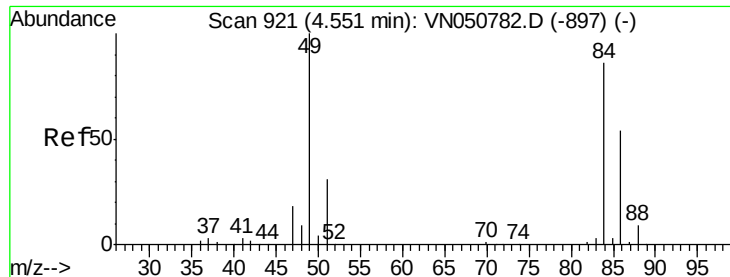
Tgt Ion: 43 Resp: 5409

Ion Ratio Lower Upper

43 100

74 40.4 19.8 29.8#

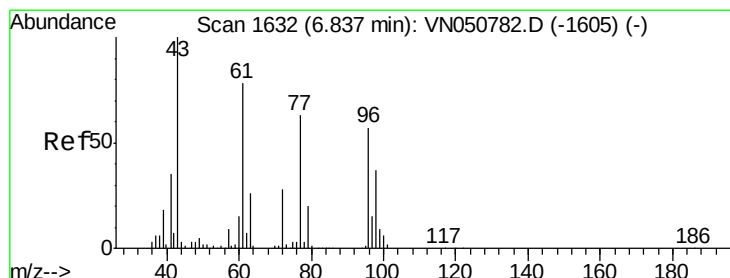
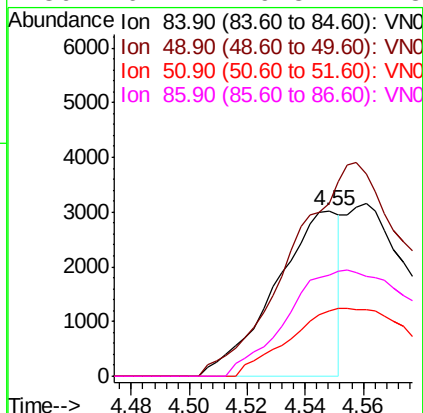
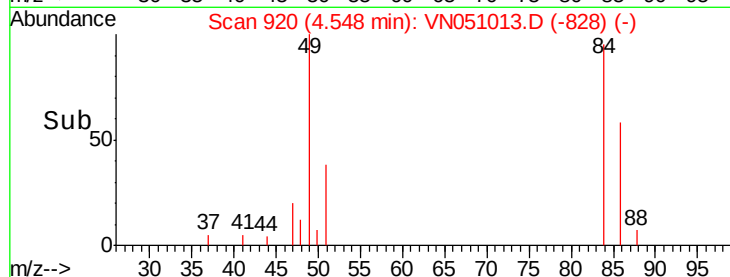
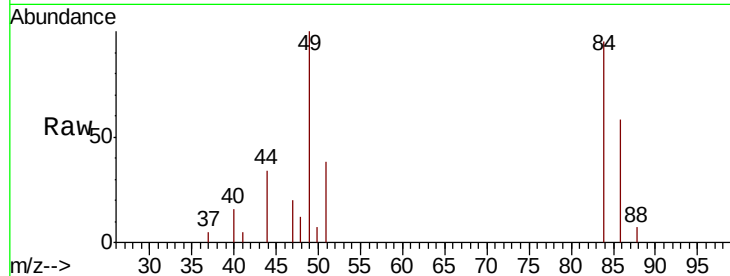




#20  
Methvlene Chloride  
Concen: 0.59 ug/l  
RT: 4.55 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VN051013.D  
Acq: 4 Sep 2018 12:38

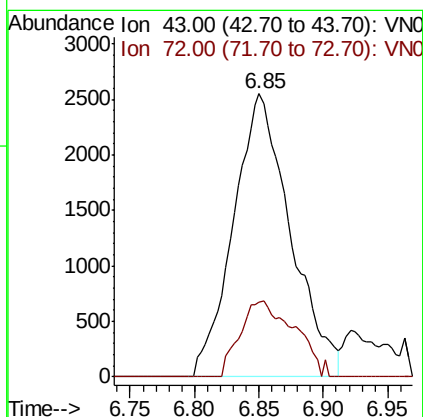
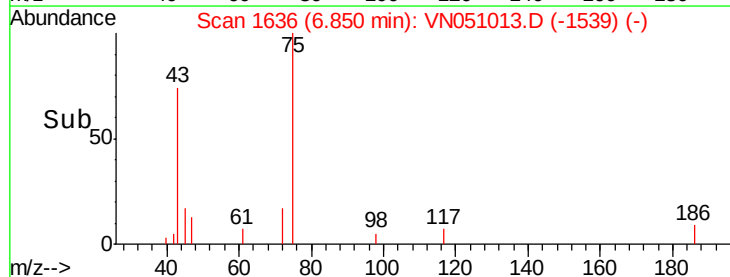
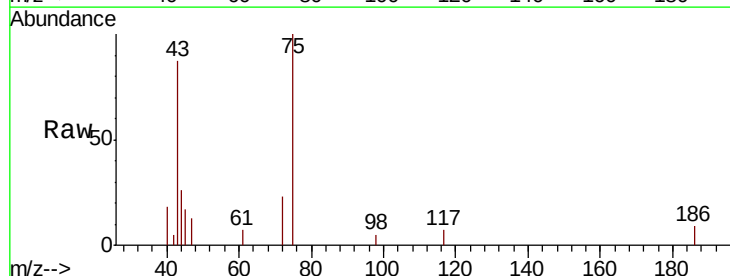
Instrument :  
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ClientSampleId :  
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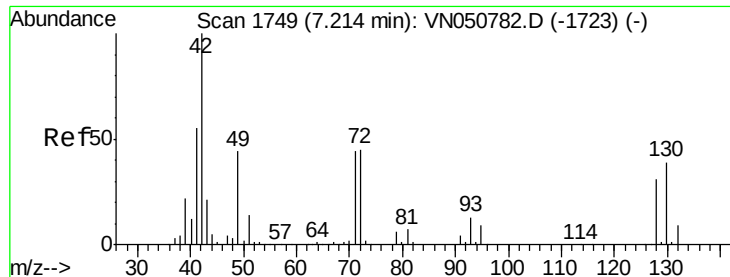
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 4632  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 104.9 | 93.2  | 139.8 |
| 51       | 39.8  | 29.0  | 43.6  |
| 86       | 61.1  | 49.8  | 74.8  |



#25  
2-Butanone  
Concen: 2.78 ug/l  
RT: 6.85 min Scan# 1636  
Delta R.T. 0.01 min  
Lab File: VN051013.D  
Acq: 4 Sep 2018 12:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 7850  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 26.4  | 22.3  | 33.5  |





#29

Tetrahydrofuran

Concen: 0.71 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

PB112553TB

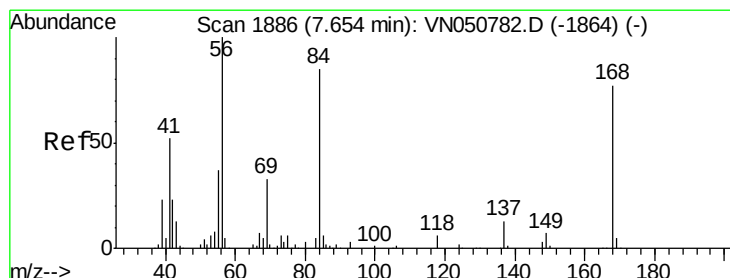
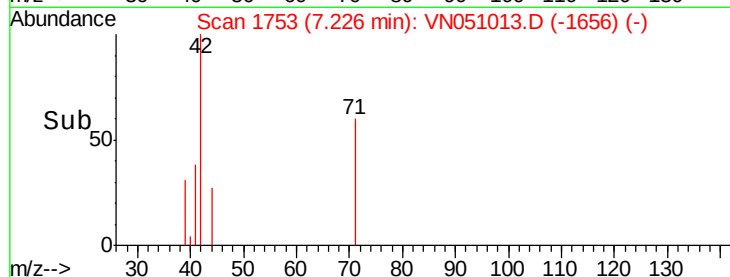
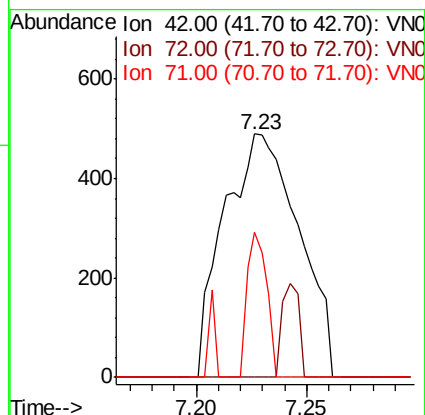
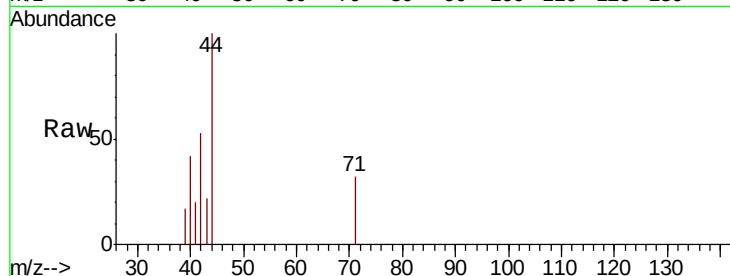
Tot Ion: 42 Resp: 1149

Ion Ratio Lower Upper

42 100

72 8.5 35.5 53.3#

71 15.7 33.7 50.5#



#31

Cyclohexane

Concen: 1.29 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

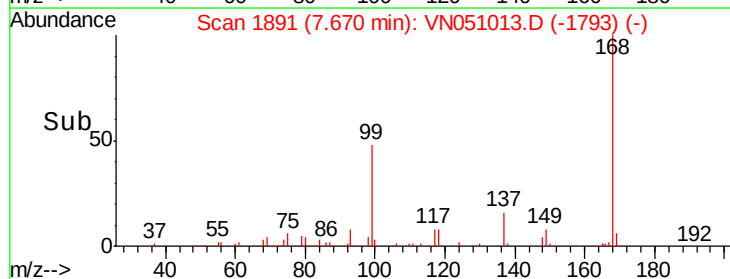
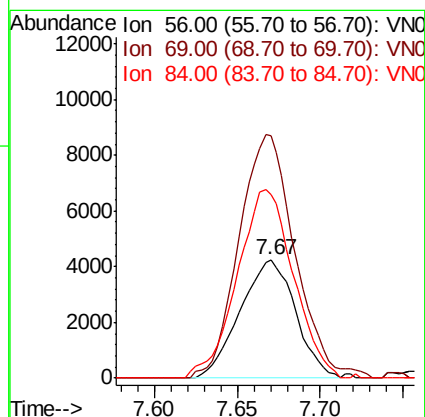
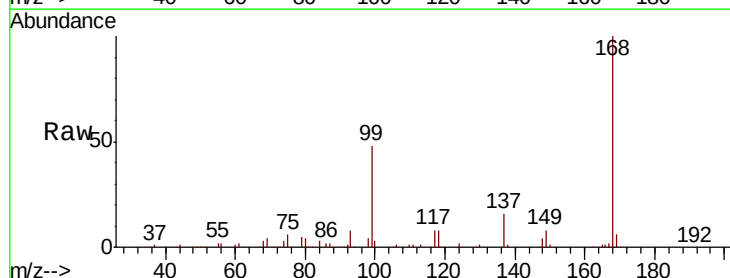
Tgt Ion: 56 Resp: 9864

Ion Ratio Lower Upper

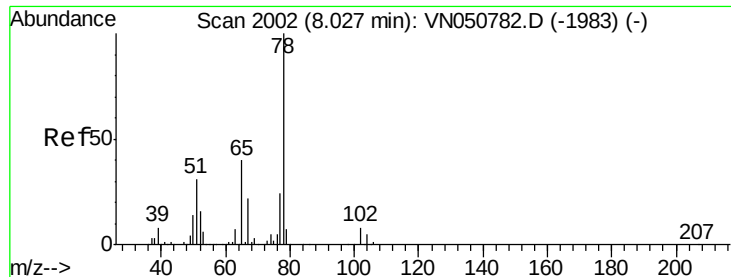
56 100

69 205.4 26.2 39.4#

84 155.7 68.3 102.5#



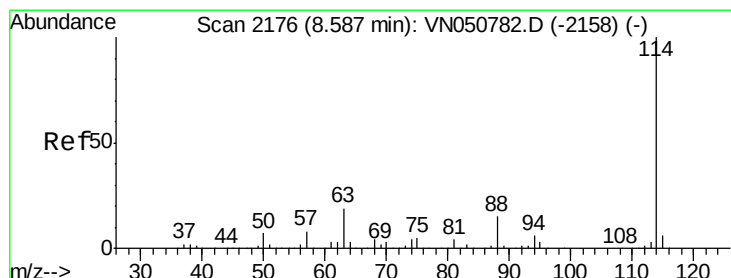
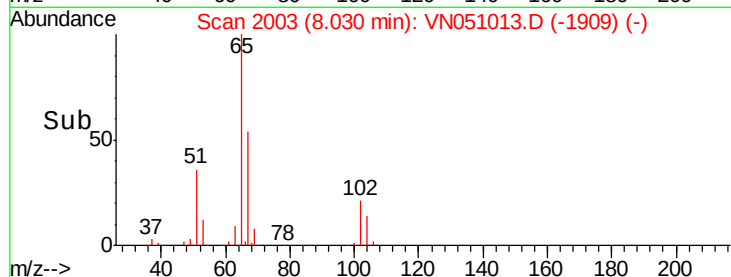
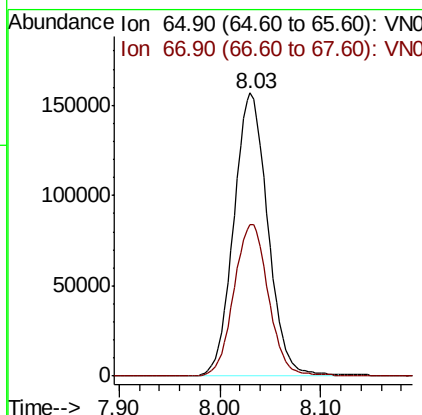
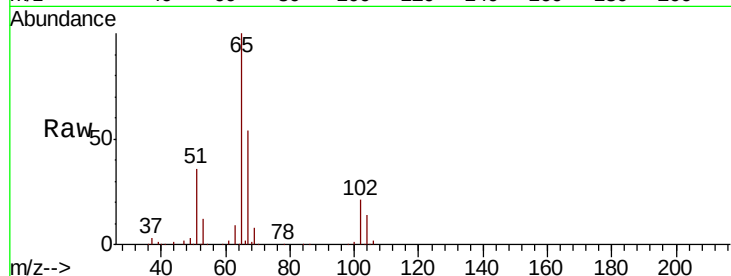




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.40 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

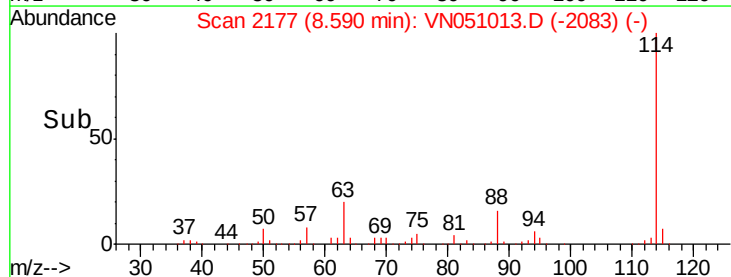
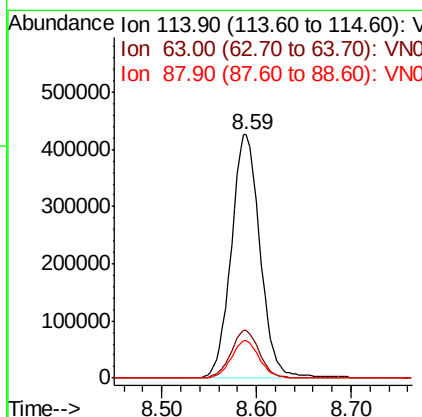
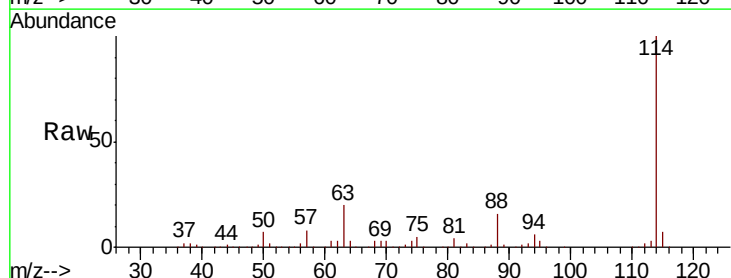
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112553TB

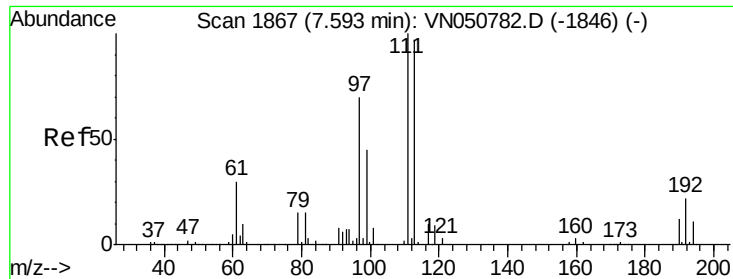
Tot Ion: 65 Resp: 366908  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 0.0 110.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

Tgt Ion: 114 Resp: 902097  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 38.6  
 88 15.5 0.0 30.6

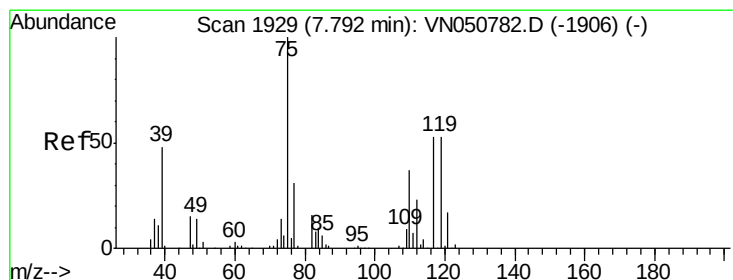
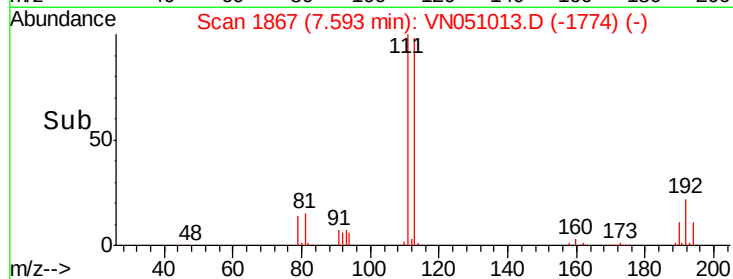
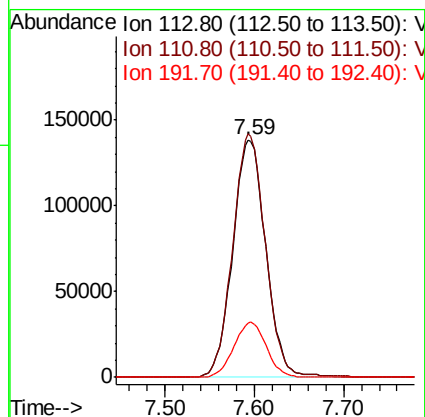
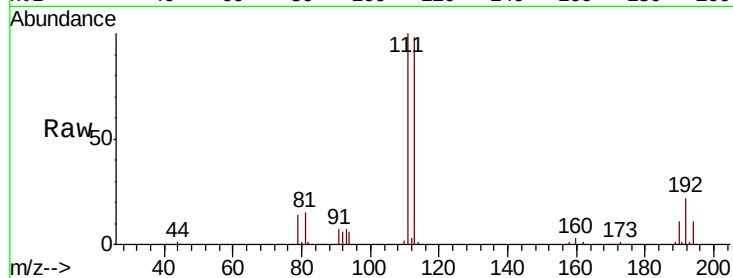




#35  
 Dibromofluoromethane  
 Concen: 49.60 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

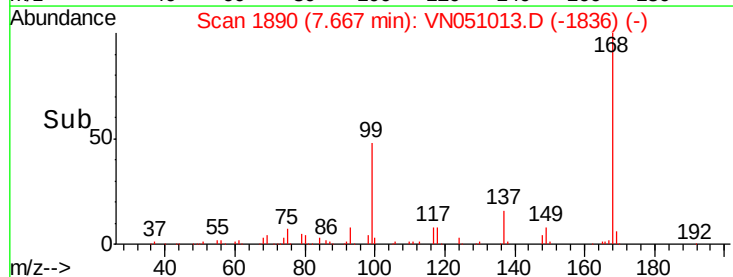
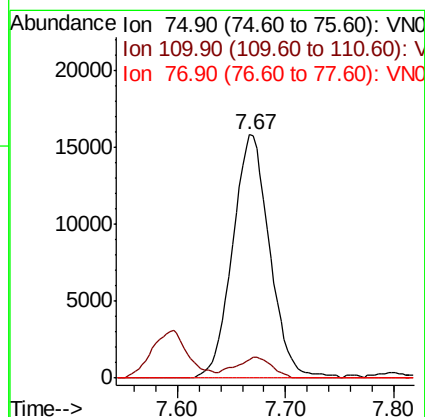
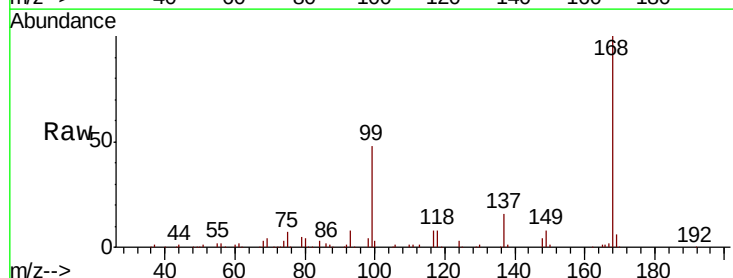
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112553TB

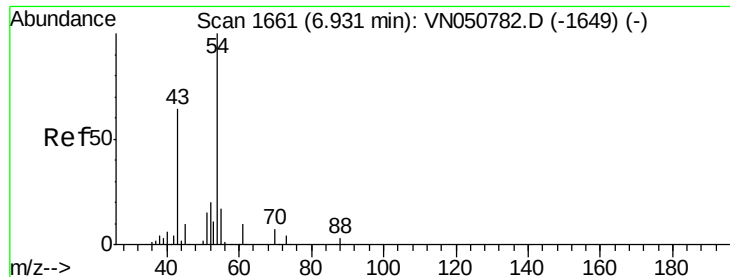
Tot Ion:113 Resp: 355940  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 82.6 123.8  
 192 22.9 18.0 27.0



#36  
 1,1-Dichloropropene  
 Concen: 3.56 ug/l  
 RT: 7.67 min Scan# 1890  
 Delta R.T. -0.13 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

Tgt Ion: 75 Resp: 37905  
 Ion Ratio Lower Upper  
 75 100  
 110 8.4 18.1 54.4#  
 77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 1.28 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. -0.08 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

PB112553TB

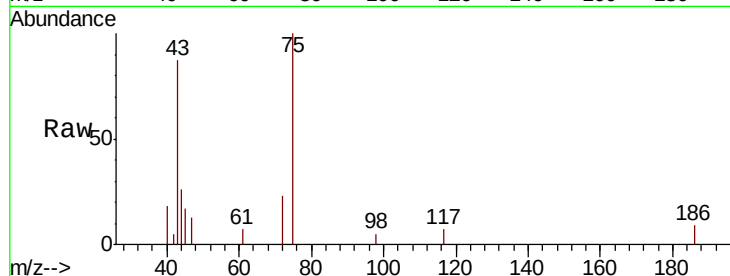
Tot Ion: 43 Resp: 7850

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

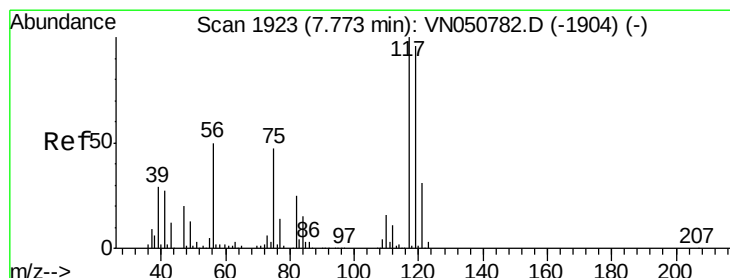
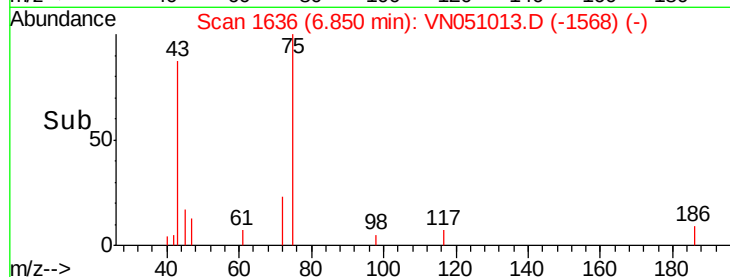
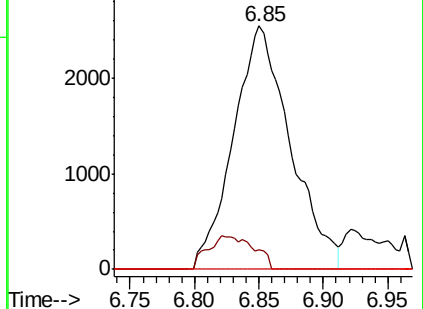
70 0.0 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0



#38

Carbon Tetrachloride

Concen: 4.64 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

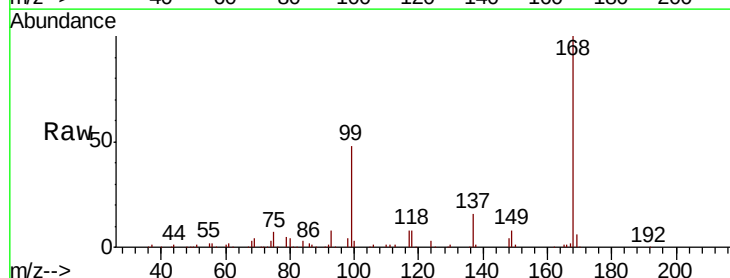
Tgt Ion: 117 Resp: 49888

Ion Ratio Lower Upper

117 100

119 5.3 76.3 114.5#

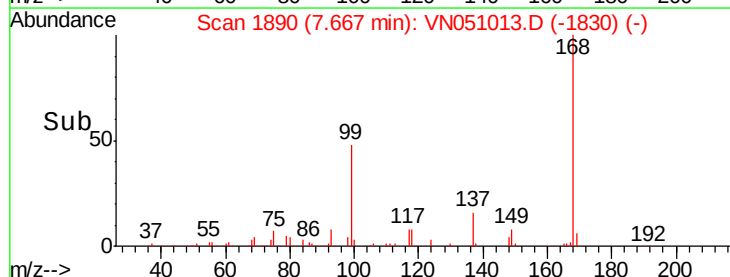
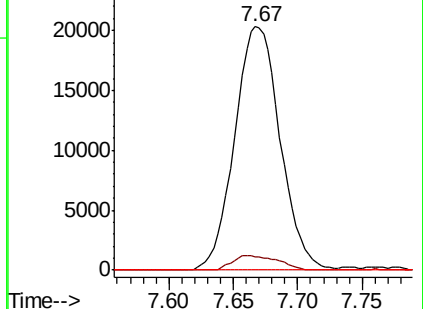
121 0.0 24.6 36.8#

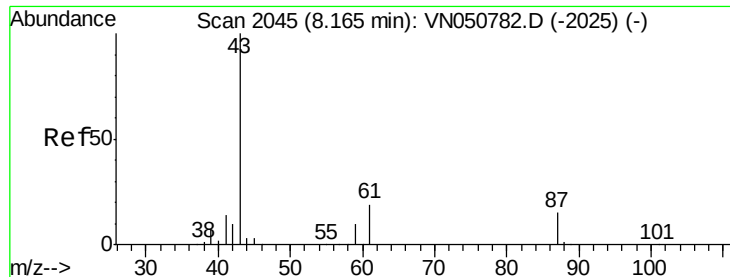


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 20.80 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampled :

PB112553TB

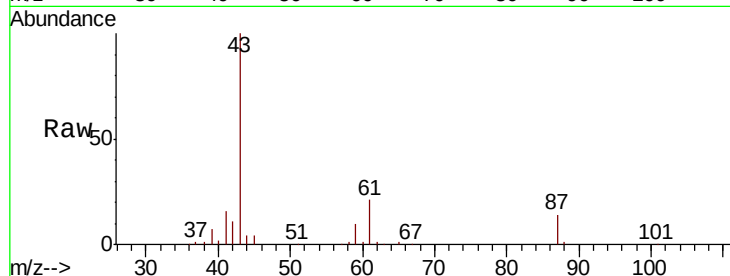
Tot Ion: 43 Resp: 218741

Ion Ratio Lower Upper

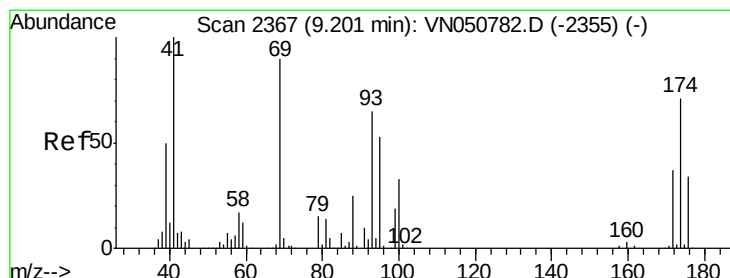
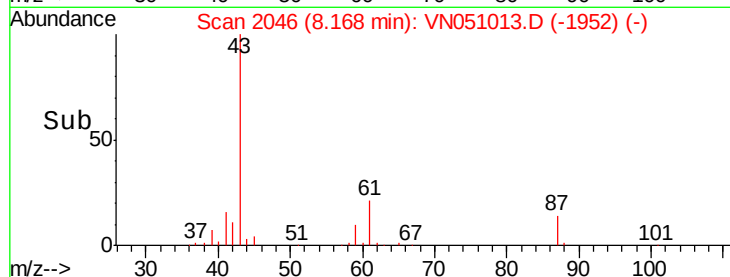
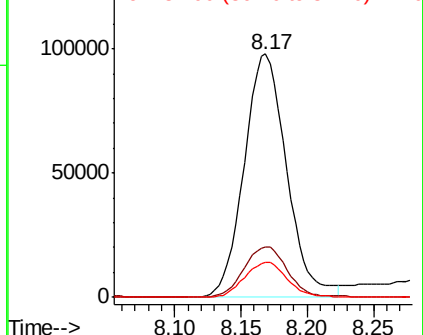
43 100

61 21.1 17.5 26.3

87 14.4 11.3 16.9



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



#48

Methyl methacrylate

Concen: 1.31 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

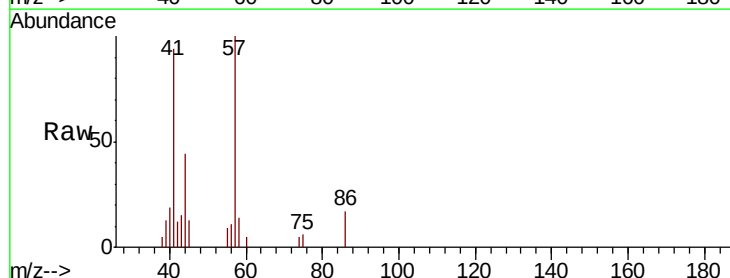
Tgt Ion: 41 Resp: 7031

Ion Ratio Lower Upper

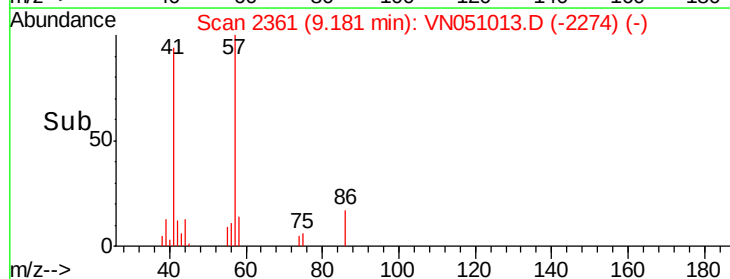
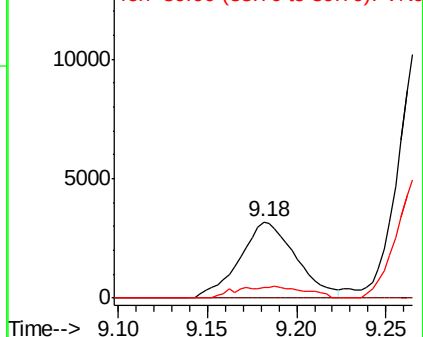
41 100

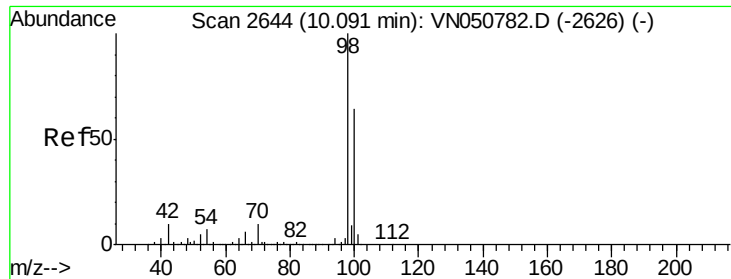
69 0.0 74.7 112.1#

39 18.7 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 39.00 (38.70 to 39.70): VNC

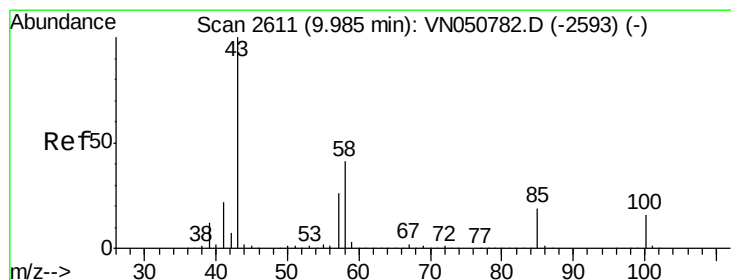
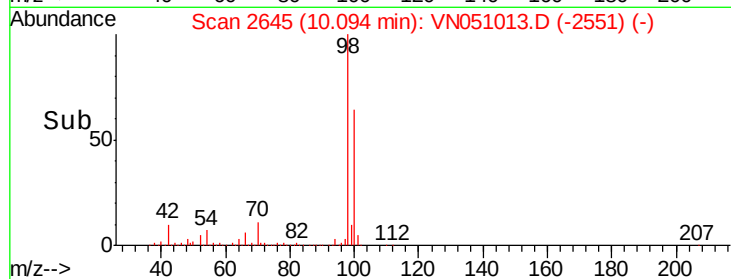
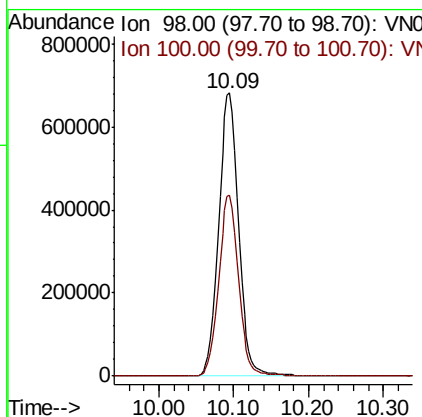
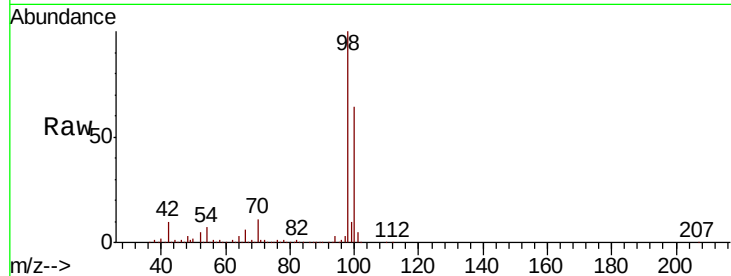




#50  
Toluene-d8  
Concen: 46.77 ug/l  
RT: 10.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VN051013.D  
Acq: 4 Sep 2018 12:38

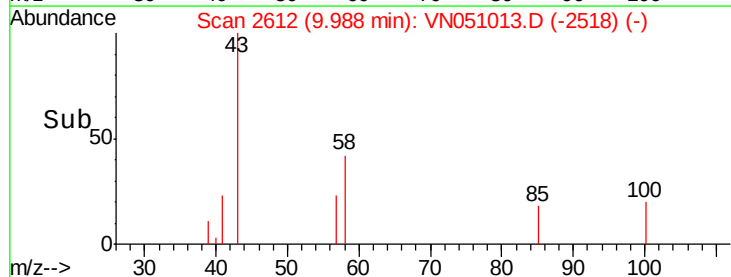
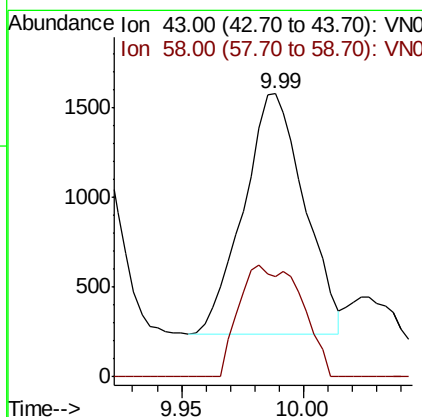
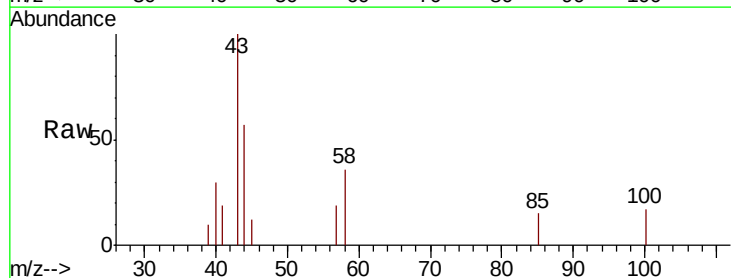
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB112553TB

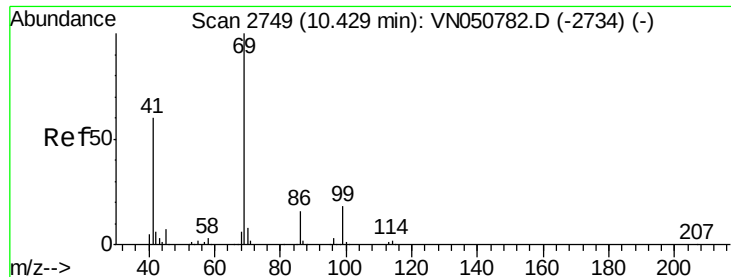
Tot Ion: 98 Resp: 1254823  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.5 77.3



#51  
4-Methyl-2-Pentanone  
Concen: 0.37 ug/l  
RT: 9.99 min Scan# 2612  
Delta R.T. 0.00 min  
Lab File: VN051013.D  
Acq: 4 Sep 2018 12:38

Tgt Ion: 43 Resp: 2328  
Ion Ratio Lower Upper  
43 100  
58 47.8 32.4 48.6





#56

Ethyl methacrylate

Concen: 2.38 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampled :

PB112553TB

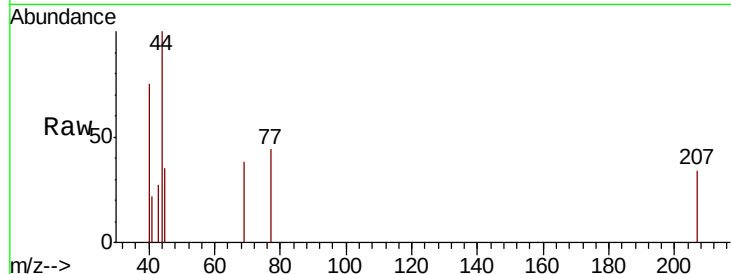
Tot Ion: 69 Resp: 286

Ion Ratio Lower Upper

69 100

41 73.1 48.3 72.5#

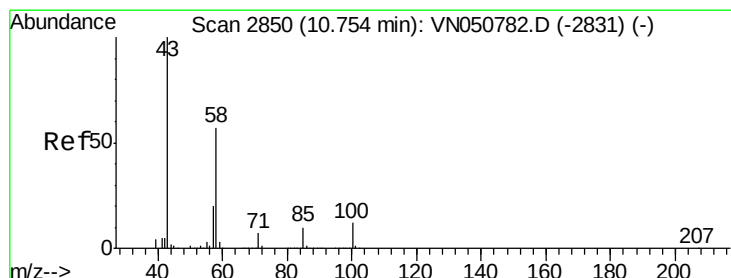
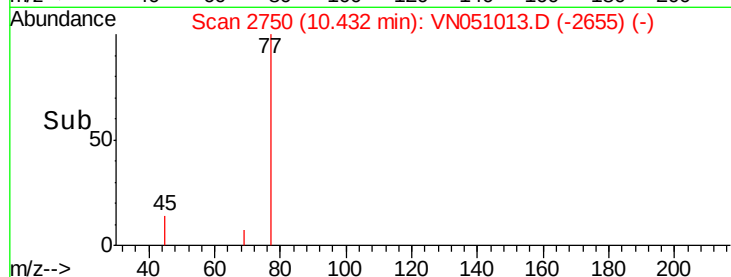
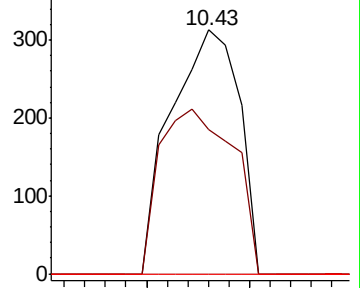
39 0.0 24.0 36.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 4.89 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN051013.D

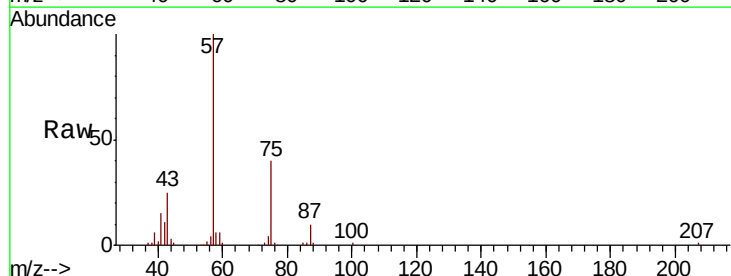
Acq: 4 Sep 2018 12:38

Tgt Ion: 43 Resp: 20417

Ion Ratio Lower Upper

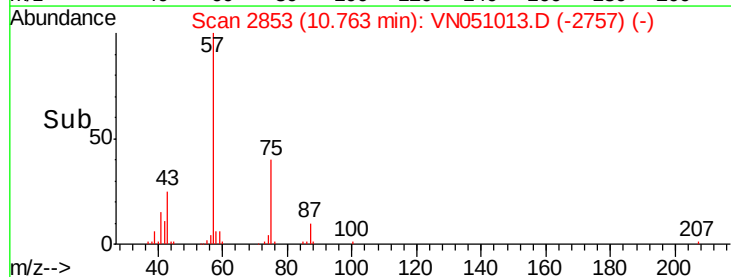
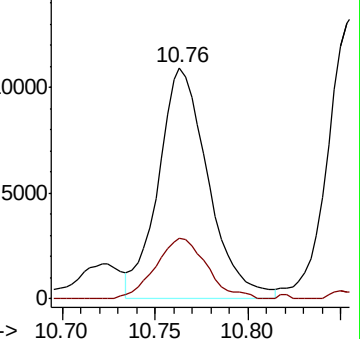
43 100

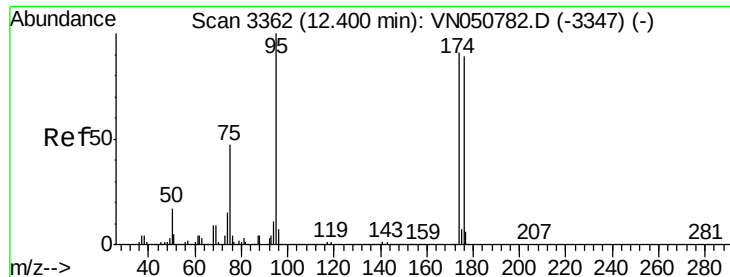
58 26.9 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.86 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

PB112553TB

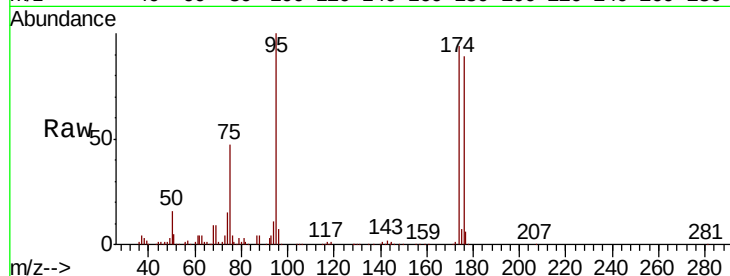
Tot Ion: 95 Resp: 328676

Ion Ratio Lower Upper

95 100

174 93.6 0.0 183.0

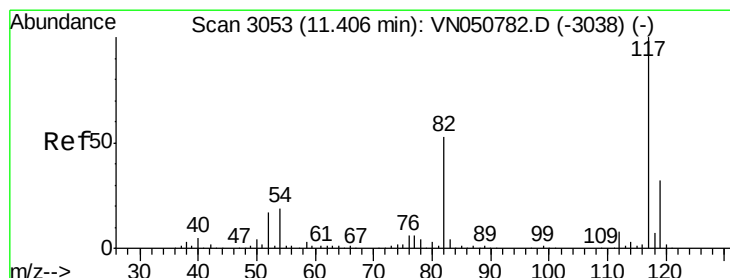
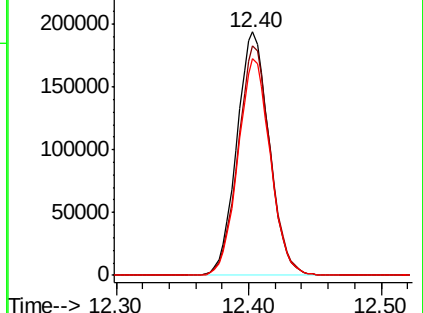
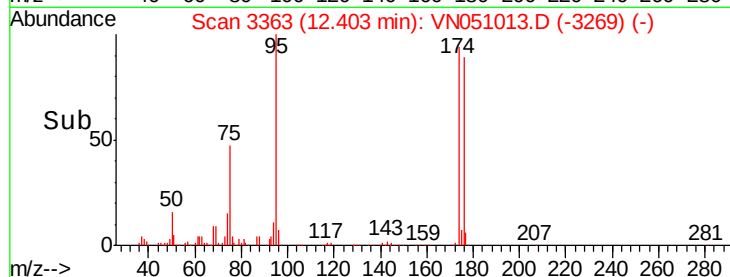
176 88.7 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN051013.D (-3269) (-)

Ion 173.80 (173.50 to 174.50): VN051013.D (-3269) (-)

Ion 175.80 (175.50 to 176.50): VN051013.D (-3269) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

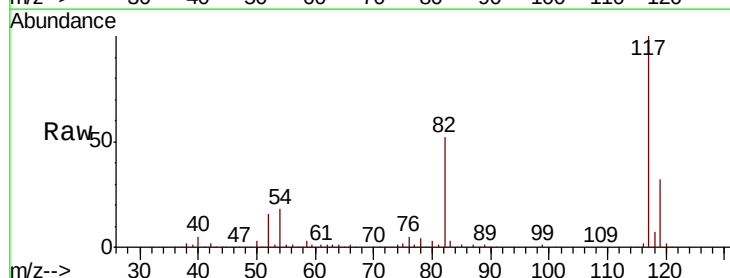
Tgt Ion: 117 Resp: 789154

Ion Ratio Lower Upper

117 100

82 51.9 42.6 64.0

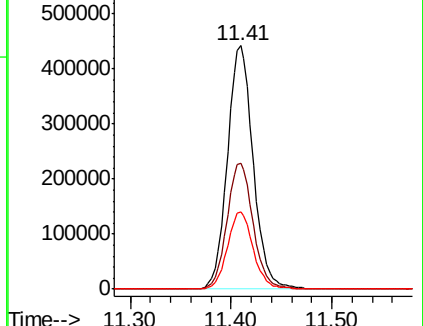
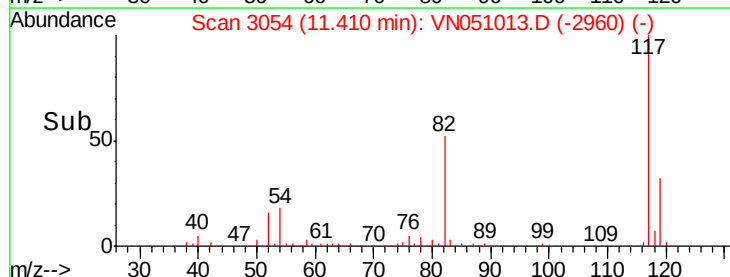
119 31.8 25.8 38.6

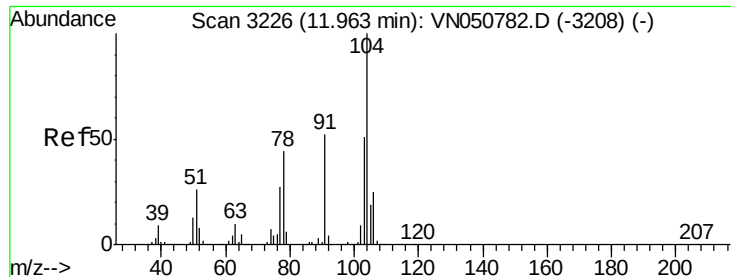


Abundance Ion 116.90 (116.60 to 117.60): VN051013.D (-2960) (-)

Ion 82.00 (81.70 to 82.70): VN051013.D (-2960) (-)

Ion 118.90 (118.60 to 119.60): VN051013.D (-2960) (-)





#70

Stvrene

Concen: 1.32 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

PB112553TB

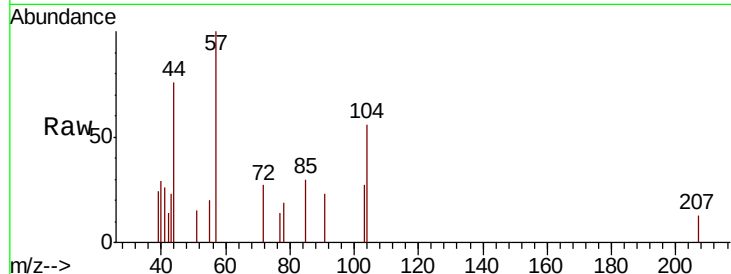
Tot Ion:104 Resp: 1184

Ion Ratio Lower Upper

104 100

78 28.0 38.2 57.4#

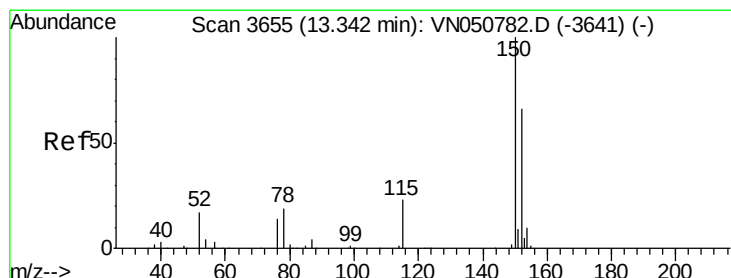
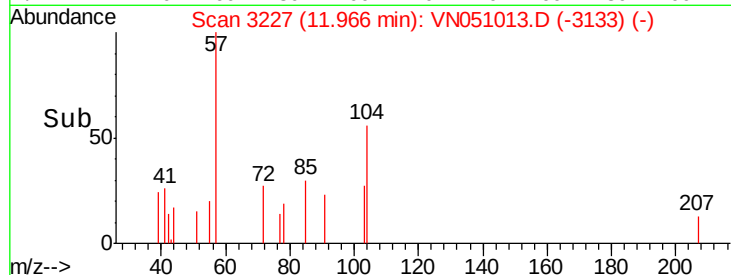
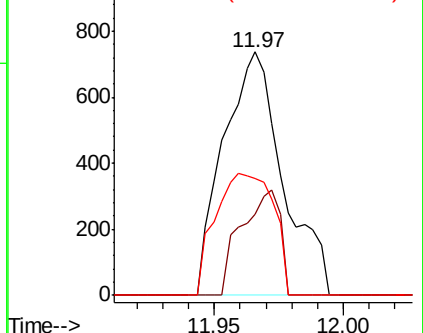
103 48.5 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): 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: VN051013.D

Acq: 4 Sep 2018 12:38

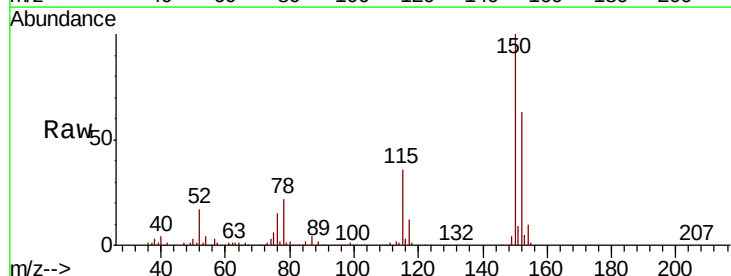
Tgt Ion:152 Resp: 242221

Ion Ratio Lower Upper

152 100

115 56.5 27.8 83.4

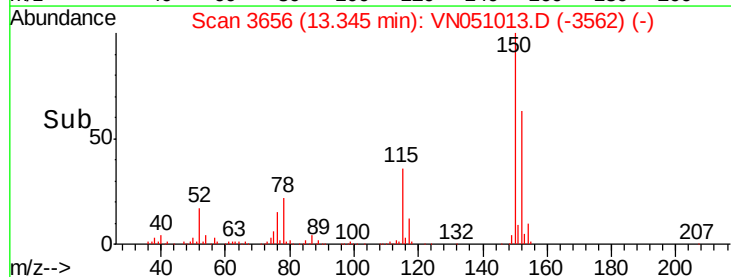
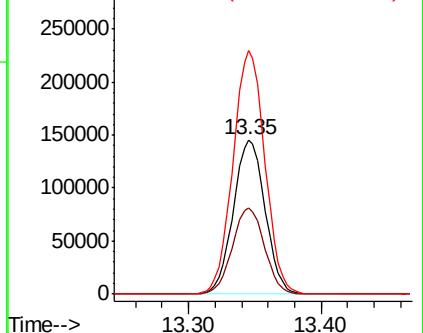
150 157.8 0.0 351.4



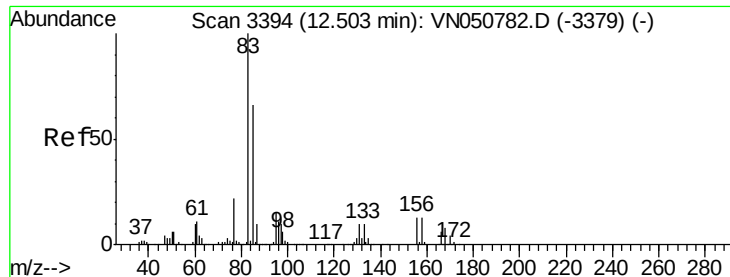
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V







#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

PB112553TB

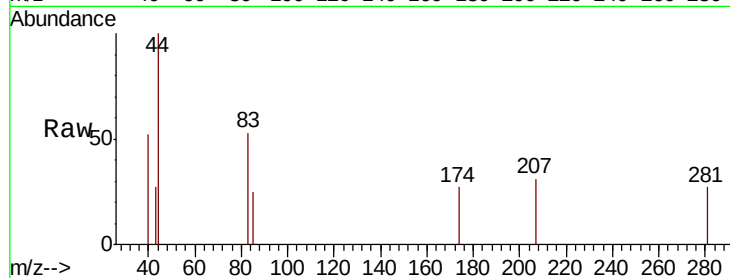
Tot Ion: 83 Resp: 488

Ion Ratio Lower Upper

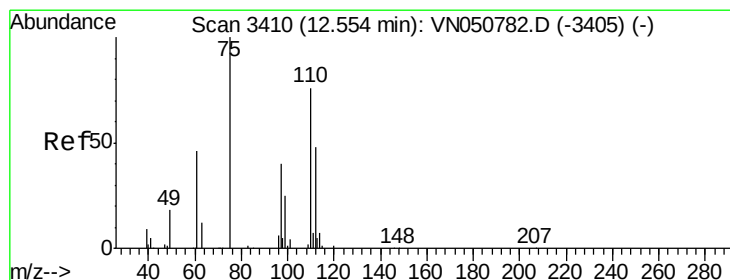
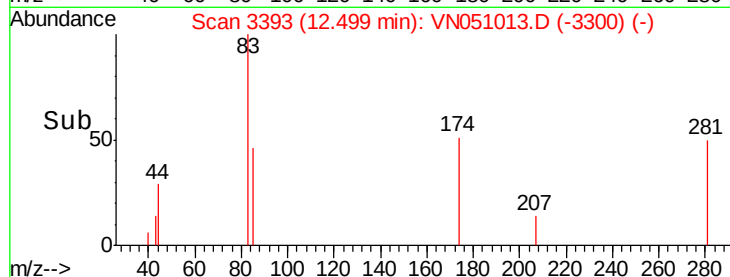
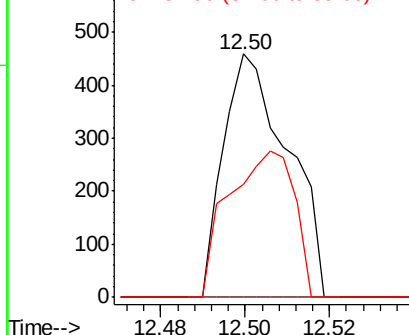
83 100

131 0.0 5.3 15.9#

85 61.3 31.9 95.7



Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 130.80 (130.50 to 131.50): VNO  
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN051013.D

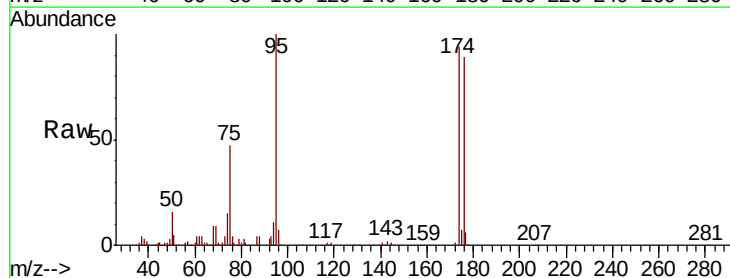
Acq: 4 Sep 2018 12:38

Tgt Ion: 75 Resp: 152633

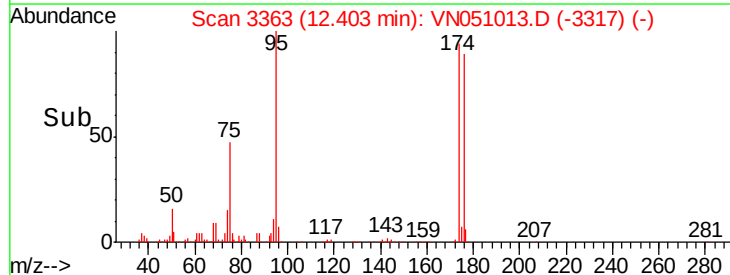
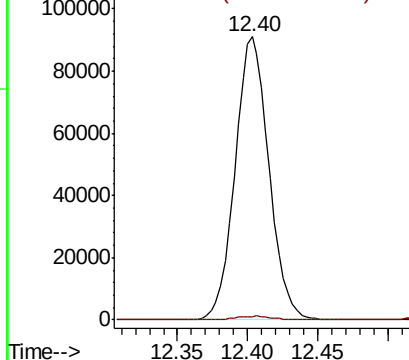
Ion Ratio Lower Upper

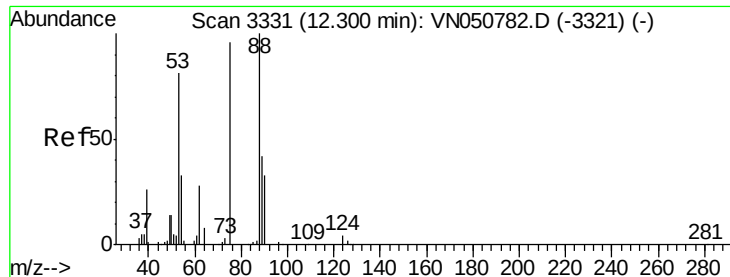
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 121.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN051013.D

Acq: 4 Sep 2018 12:38

Instrument :

MSVOA\_N

ClientSampleId :

PB112553TB

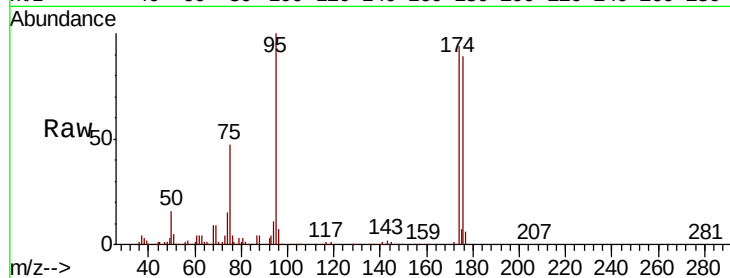
Tot Ion: 75 Resp: 152633

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

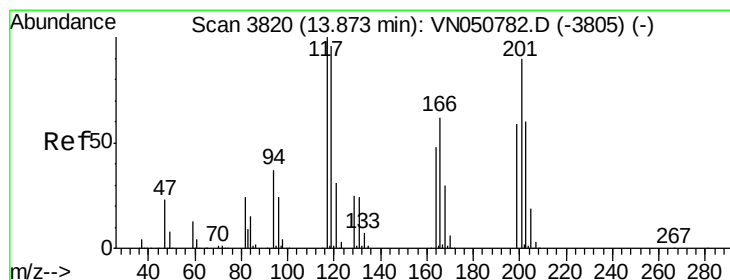
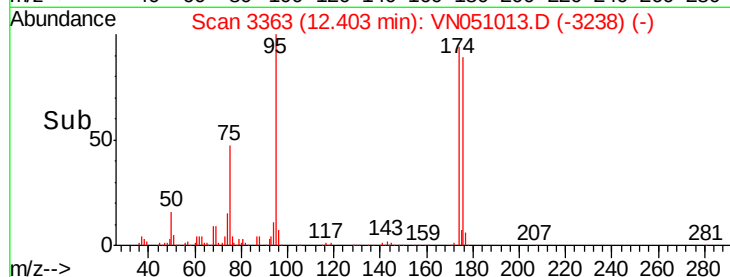
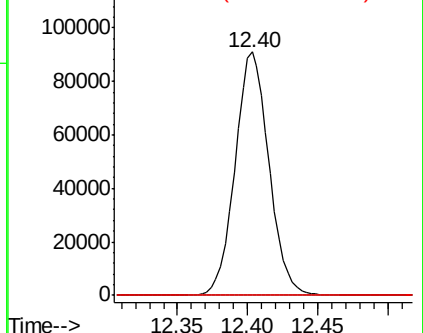
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#90

Hexachloroethane

Concen: 0.21 ug/l

RT: 13.88 min Scan# 3823

Delta R.T. 0.01 min

Lab File: VN051013.D

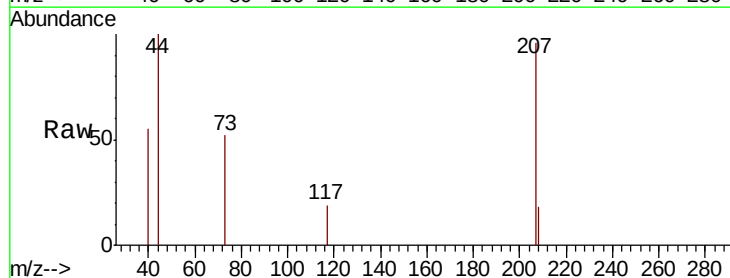
Acq: 4 Sep 2018 12:38

Tgt Ion: 117 Resp: 62

Ion Ratio Lower Upper

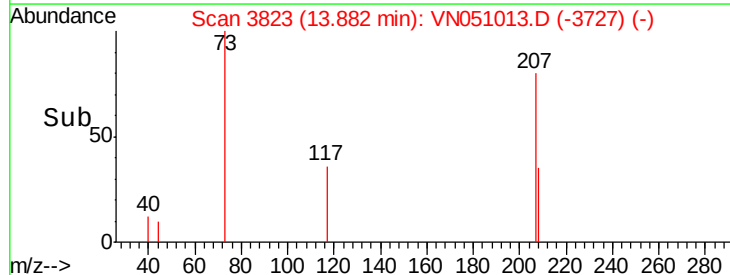
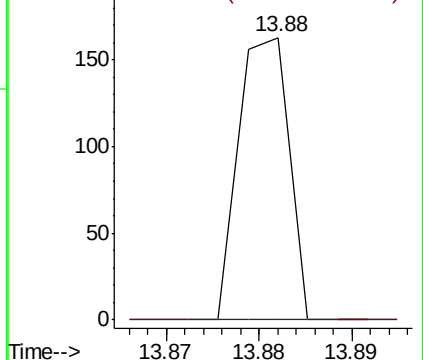
117 100

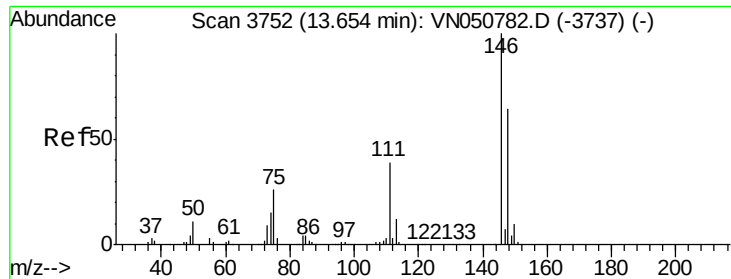
201 0.0 46.0 137.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

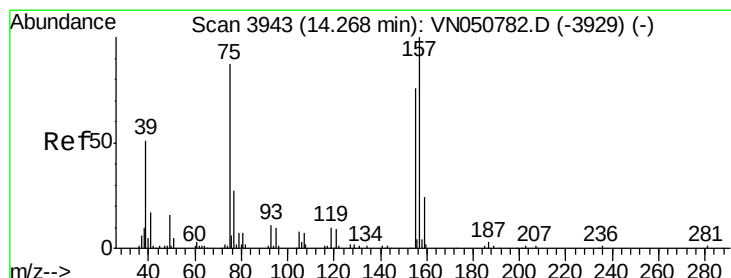
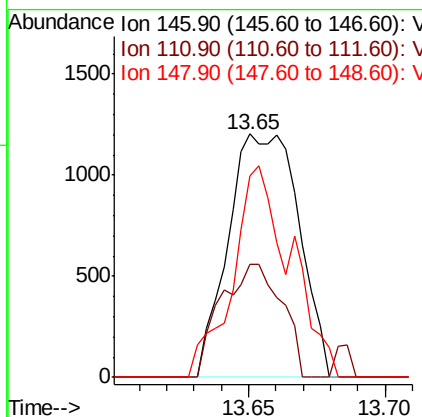
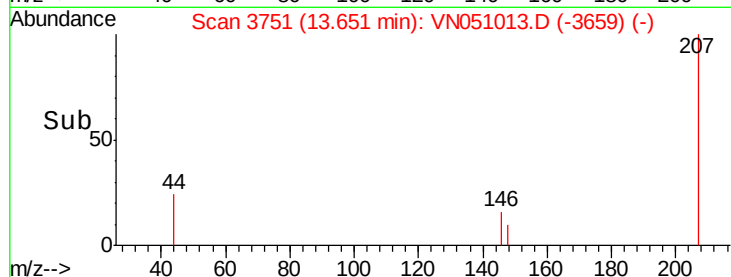
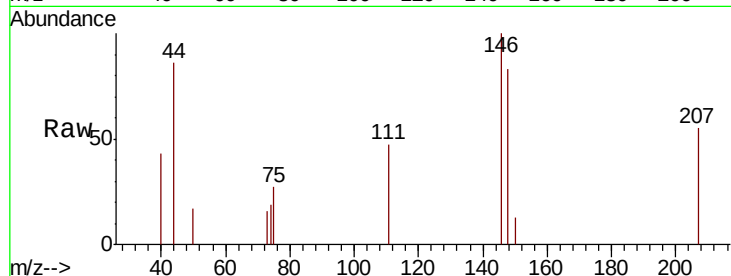




#91  
 1,2-Dichlorobenzene  
 Concen: 0.24 ug/l  
 RT: 13.65 min Scan# 3751  
 Delta R.T. -0.00 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

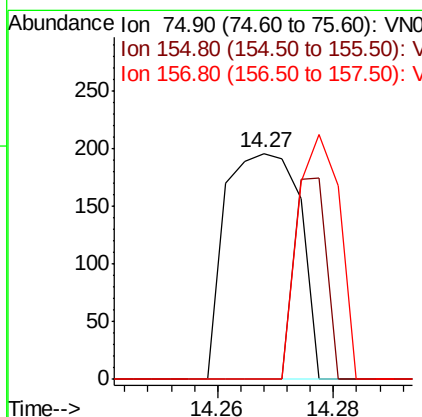
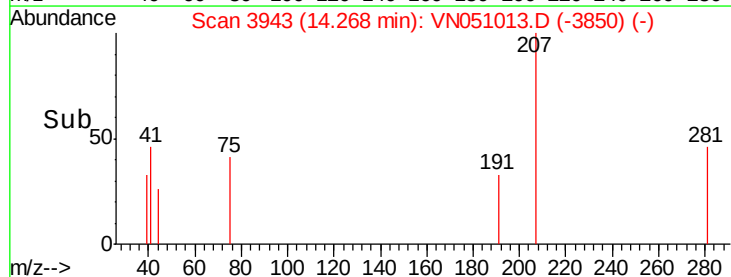
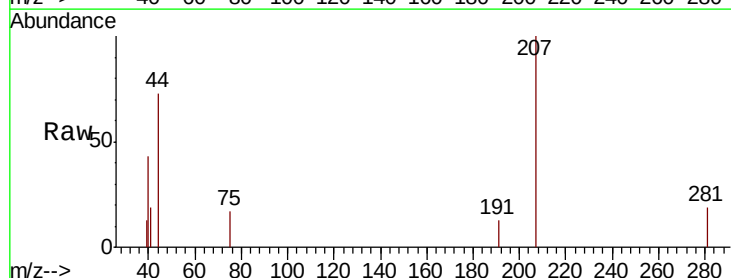
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112553TB

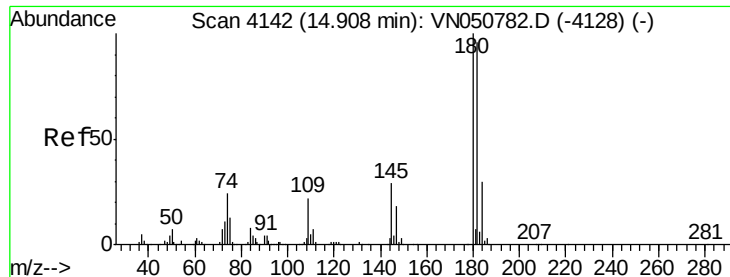
Tot Ion:146 Resp: 2162  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 19.8 59.3  
 148 71.4 32.3 96.8



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.24 ug/l  
 RT: 14.27 min Scan# 3943  
 Delta R.T. -0.00 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

Tgt Ion: 75 Resp: 174  
 Ion Ratio Lower Upper  
 75 100  
 155 38.5 46.4 139.1#  
 157 60.9 60.7 182.0

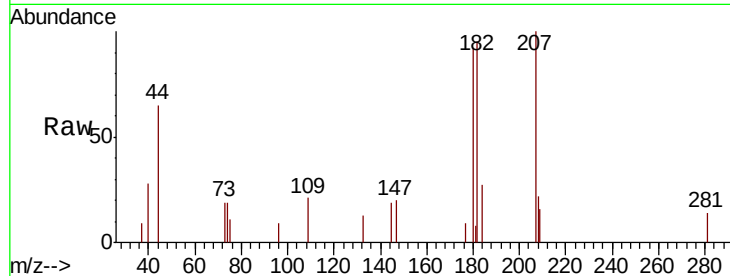




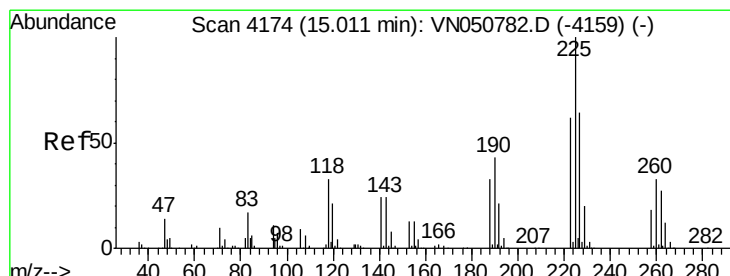
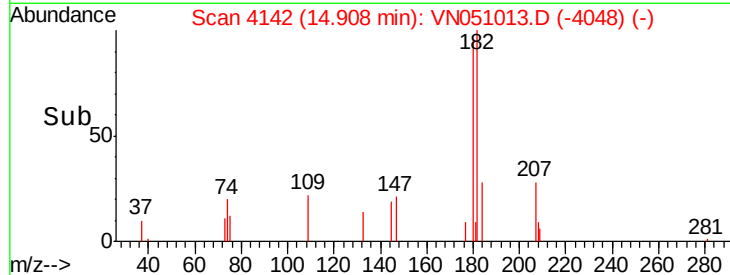
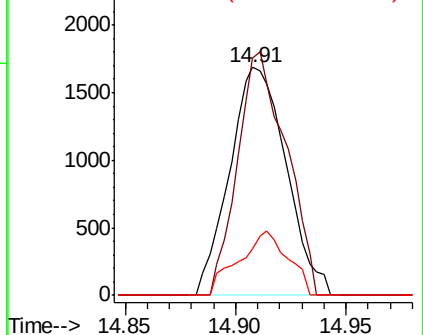
#93  
 1,2,4-Trichlorobenzene  
 Concen: 4.67 ug/l  
 RT: 14.91 min Scan# 4142  
 Delta R.T. 0.00 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB112553TB

Tot Ion:180 Resp: 2991  
 Ion Ratio Lower Upper  
 180 100  
 182 92.1 48.2 144.6  
 145 24.4 14.1 42.2

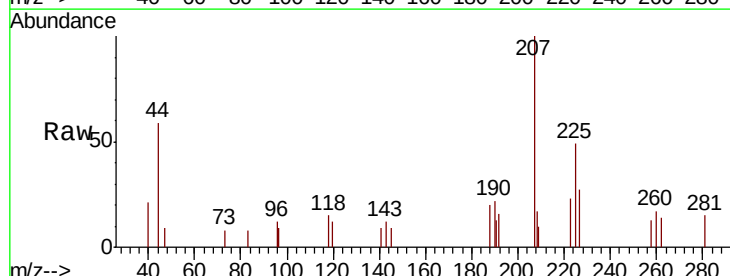


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

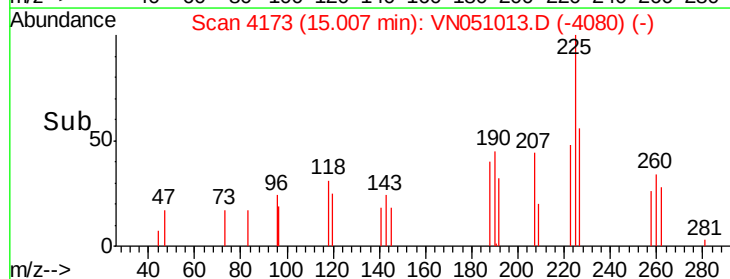
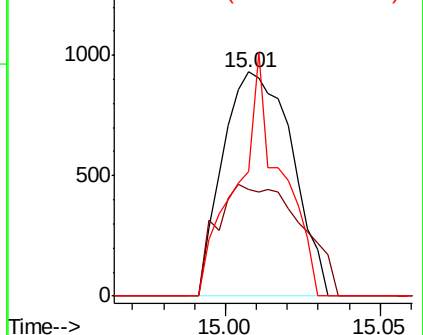


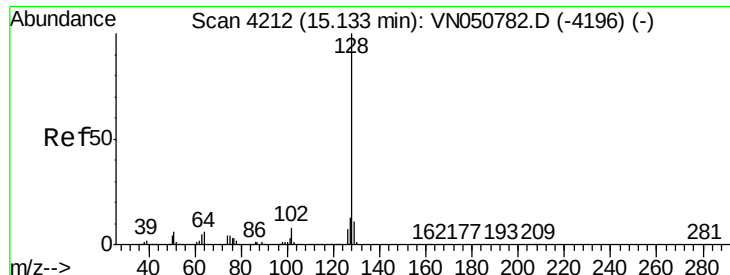
#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.01 min Scan# 4173  
 Delta R.T. -0.00 min  
 Lab File: VN051013.D  
 Acq: 4 Sep 2018 12:38

Tgt Ion:225 Resp: 1445  
 Ion Ratio Lower Upper  
 225 100  
 223 60.6 31.3 93.8  
 227 68.5 32.0 96.2



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

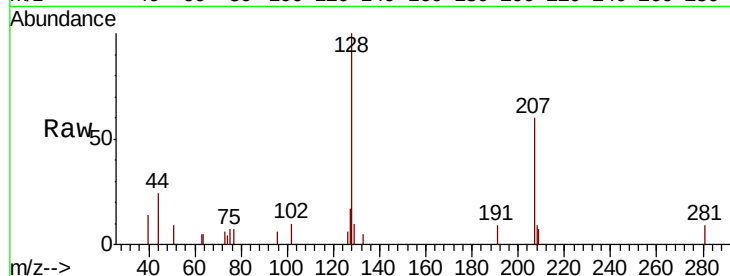




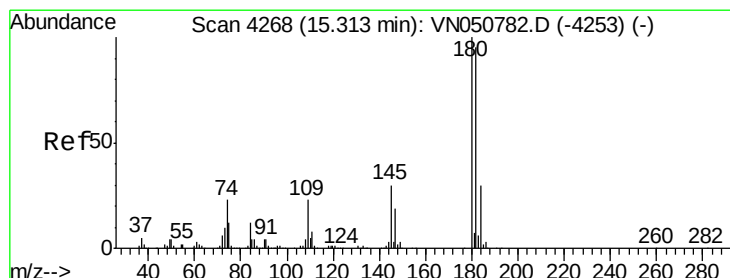
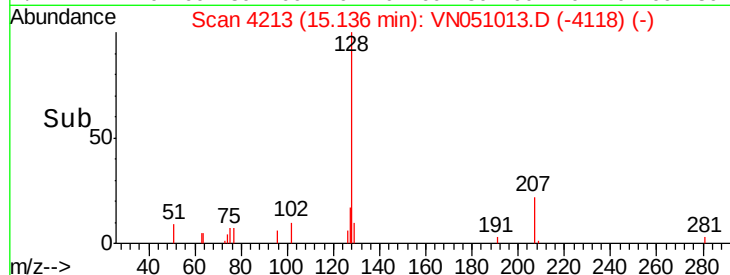
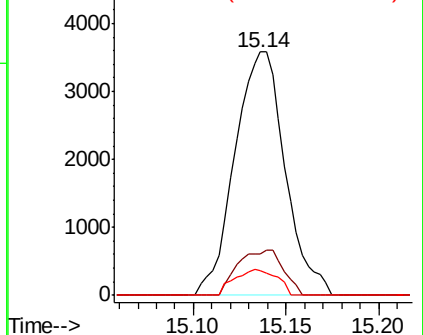
#95  
Naphthalene  
Concen: 6.02 ug/l  
RT: 15.14 min Scan# 4213  
Delta R.T. 0.00 min  
Lab File: VN051013.D  
Acq: 4 Sep 2018 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB112553TB

Tot Ion:128 Resp: 6736  
Ion Ratio Lower Upper  
128 100  
127 16.8 10.5 15.7#  
129 8.9 8.7 13.1

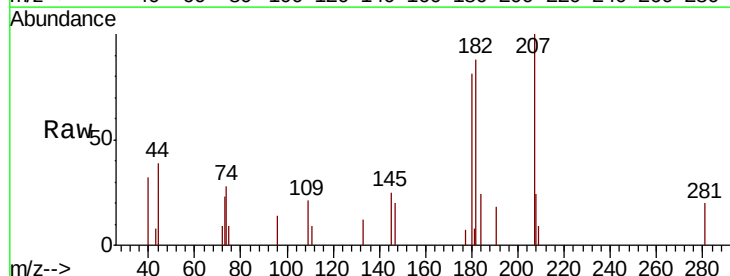


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96  
1,2,3-Trichlorobenzene  
Concen: 3.97 ug/l  
RT: 15.32 min Scan# 4269  
Delta R.T. 0.00 min  
Lab File: VN051013.D  
Acq: 4 Sep 2018 12:38

Tgt Ion:180 Resp: 3148  
Ion Ratio Lower Upper  
180 100  
182 97.0 48.0 144.2  
145 29.4 15.2 45.6



Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.90 (144.60 to 145.60): V

