

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\  
 Data File : VN051997.D  
 Acq On : 24 Oct 2018 19:20  
 Operator : MD\SY  
 Sample : VSTDCCC020EC  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 25 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 25 01:24:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 12 10:23:44 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 167562   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 949384   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 852012   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 292278   | 28.67    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 95.57% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 351567   | 28.62    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 95.40% |
| 63) Toluene-d8            | 10.09  | 98    | 1082602  | 29.26    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 97.53% |

## Target Compounds

|                               |      |     |        |        | Ovalue     |
|-------------------------------|------|-----|--------|--------|------------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 134355 | 20.639 | ug/l 98    |
| 3) Chloromethane              | 2.06 | 50  | 118095 | 17.165 | ug/l 97    |
| 4) Vinyl Chloride             | 2.19 | 62  | 147638 | 14.370 | ug/l 100   |
| 5) Bromomethane               | 2.55 | 94  | 149581 | 16.477 | ug/l 86    |
| 6) Chloroethane               | 2.70 | 64  | 113399 | 15.315 | ug/l 97    |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 288759 | 19.713 | ug/l 94    |
| 8) Diethyl Ether              | 3.42 | 74  | 85651  | 20.086 | ug/l 67    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.77 | 101 | 177372 | 21.263 | ug/l # 40  |
| 10) 1,1-Dichloroethene        | 3.74 | 96  | 158925 | 20.600 | ug/l # 78  |
| 11) Methyl Iodide             | 3.96 | 142 | 263886 | 23.530 | ug/l 95    |
| 12) Methyl Acetate            | 4.33 | 43  | 97403  | 20.332 | ug/l # 89  |
| 13) Acrolein                  | 3.67 | 56  | 264    | 0.836  | ug/l 90    |
| 14) Acrylonitrile             | 4.99 | 53  | 190284 | 88.872 | ug/l # 60  |
| 15) Acetone                   | 3.82 | 58  | 41540  | 78.484 | ug/l 99    |
| 16) Carbon Disulfide          | 4.06 | 76  | 320179 | 15.803 | ug/l 97    |
| 17) Allyl chloride            | 4.33 | 41  | 144322 | 15.757 | ug/l 72    |
| 18) Methylene Chloride        | 4.55 | 84  | 184383 | 21.376 | ug/l 87    |
| 19) trans-1,2-Dichloroethene  | 5.05 | 96  | 173272 | 19.670 | ug/l # 79  |
| 20) Diisopropyl ether         | 5.95 | 45  | 380926 | 18.674 | ug/l # 82  |
| 21) 1,1-Dichloroethane        | 5.85 | 63  | 272411 | 19.112 | ug/l # 98  |
| 22) cis-1,2-Dichloroethene    | 6.83 | 96  | 208155 | 20.118 | ug/l # 77  |
| 23) tert-Butyl Alcohol        | 4.78 | 59  | 14316  | 25.388 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 5.05 | 73  | 406010 | 18.267 | ug/l 97    |
| 25) Chloroform                | 7.37 | 83  | 336653 | 19.909 | ug/l 98    |
| 26) Cyclohexane               | 7.66 | 56  | 209476 | 17.335 | ug/l # 68  |
| 29) 1,1-Dichloropropene       | 7.80 | 75  | 229026 | 18.715 | ug/l 92    |
| 30) 2-Butanone                | 6.84 | 43  | 193658 | 75.712 | ug/l # 84  |
| 31) 2,2-Dichloropropane       | 6.83 | 77  | 229041 | 15.910 | ug/l # 77  |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 302080 | 18.619 | ug/l 94    |
| 33) Carbon Tetrachloride      | 7.78 | 117 | 265909 | 18.115 | ug/l 91    |
| 34) Benzene                   | 8.04 | 78  | 705522 | 19.490 | ug/l # 65  |
| 35) Methacrylonitrile         | 7.17 | 41  | 40967  | 12.191 | ug/l # 69  |
| 36) 1,2-Dichloroethane        | 8.13 | 62  | 222662 | 19.197 | ug/l 96    |
| 37) Trichloroethene           | 8.84 | 130 | 225916 | 20.105 | ug/l 93    |
| 38) Methylcyclohexane         | 9.08 | 83  | 267288 | 17.029 | ug/l 78    |
| 39) 1,2-Dichloropropane       | 9.12 | 63  | 161580 | 18.954 | ug/l 98    |
| 40) Dibromomethane            | 9.21 | 93  | 125099 | 19.772 | ug/l 93    |

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 12 10:23:44 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 41) Bromodichloromethane       | 9.40  | 83   | 232438   | 17.786  | ug/l   | 95       |
| 42) Vinyl Acetate              | 5.90  | 43   | 1192272  | 82.804  | ug/l # | 88       |
| 43) Ethyl Acetate              | 6.92  | 43   | 96705    | 17.412  | ug/l   | 97       |
| 44) Isopropyl Acetate          | 8.17  | 43   | 176892   | 15.946  | ug/l   | 94       |
| 45) 1,4-Dioxane                | 9.20  | 88   | 20281    | 227.684 | ug/l # | 71       |
| 46) Methyl methacrylate        | 9.20  | 41   | 86308    | 16.867  | ug/l   | 71       |
| 47) n-amyl Acetate             | 12.24 | 43   | 2349     | 0.253   | ug/l   | 98       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 209650   | 16.451  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene    | 9.84  | 75   | 242136   | 17.235  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 171792   | 19.652  | ug/l   | 95       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 177317   | 17.717  | ug/l   | 81       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 258156   | 19.134  | ug/l   | 99       |
| 53) Dibromochloromethane       | 10.90 | 129  | 178746   | 16.528  | ug/l   | 96       |
| 54) 1,2-Dibromoethane          | 11.01 | 107  | 171264   | 18.665  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.70  | 63   | 482590   | 112.795 | ug/l # | 91       |
| 56) Bromoform                  | 12.13 | 173  | 100129   | 14.039  | ug/l # | 93       |
| 58) 4-Methyl-2-Pentanone       | 9.99  | 43   | 471597   | 82.713  | ug/l # | 86       |
| 59) 2-Hexanone                 | 10.75 | 43   | 305929   | 79.534  | ug/l # | 89       |
| 61) Tetrachloroethene          | 10.63 | 164  | 206661   | 18.967  | ug/l   | 96       |
| 62) Toluene                    | 10.16 | 91   | 837140   | 19.778  | ug/l   | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 559872   | 20.197  | ug/l   | 96       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 199361   | 18.737  | ug/l   | 100      |
| 66) Ethyl Benzene              | 11.51 | 91   | 880403   | 18.820  | ug/l   | 98       |
| 67) m/p-Xylenes                | 11.62 | 106  | 721810   | 38.059  | ug/l   | 96       |
| 68) o-Xylene                   | 11.95 | 106  | 354616   | 18.967  | ug/l   | 85       |
| 69) Styrene                    | 11.96 | 104  | 549584   | 19.159  | ug/l   | 95       |
| 70) Isopropylbenzene           | 12.25 | 105  | 929629   | 18.646  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 159439   | 16.193  | ug/l   | 92       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 192069   | 24.796  | ug/l   | 83       |
| 73) Bromobenzene               | 12.53 | 156  | 245917   | 19.913  | ug/l   | 75       |
| 74) n-propylbenzene            | 12.59 | 91   | 983930   | 18.347  | ug/l   | 93       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 575060   | 18.290  | ug/l   | 89       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 736142   | 17.855  | ug/l   | 97       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 31494    | 12.294  | ug/l   | 94       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 574498   | 18.598  | ug/l   | 88       |
| 79) tert-butylbenzene          | 12.99 | 119  | 682679   | 18.005  | ug/l   | 92       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 735720   | 17.855  | ug/l   | 96       |
| 81) sec-Butylbenzene           | 13.17 | 105  | 872384   | 17.588  | ug/l   | 95       |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 781194   | 17.601  | ug/l   | 94       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 414811   | 19.036  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 400513   | 19.523  | ug/l   | 99       |
| 85) n-Butylbenzene             | 13.61 | 91   | 564138   | 16.856  | ug/l   | 94       |
| 86) Hexachloroethane           | 13.87 | 117  | 104884   | 13.705  | ug/l   | 93       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 386265   | 18.309  | ug/l   | 95       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 14337    | 9.750   | ug/l # | 60       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 117290   | 16.151  | ug/l   | 99       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 88615    | 13.034  | ug/l   | 98       |
| 91) Naphthalene                | 15.13 | 128  | 197611   | 15.382  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 88133    | 9.182   | ug/l   | 94       |
| -----                          |       |      |          |         |        |          |

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Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 25 01:24:38 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Oct 12 10:23:44 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

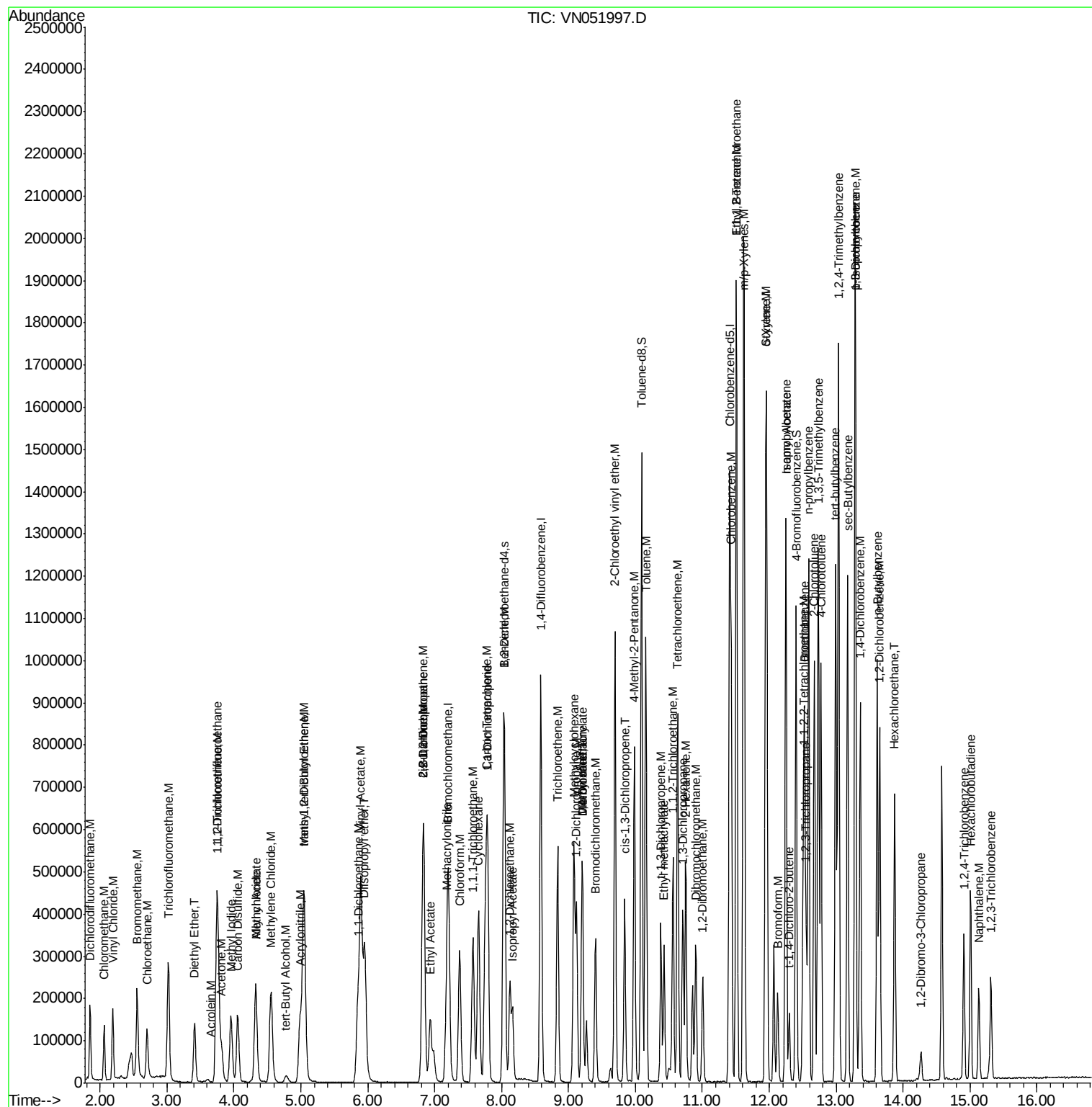
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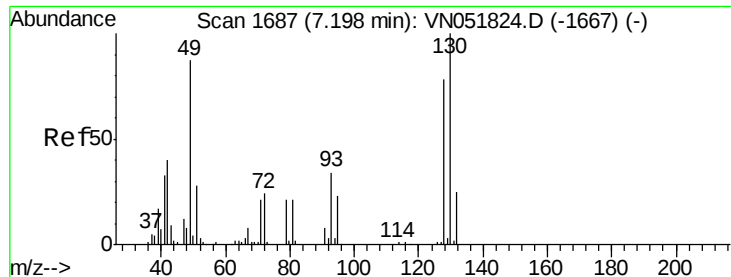
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Misc : 5.00mL/MSVOA N/WATER  
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Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 25 01:18:44 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Oct 12 10:23:44 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampleId :

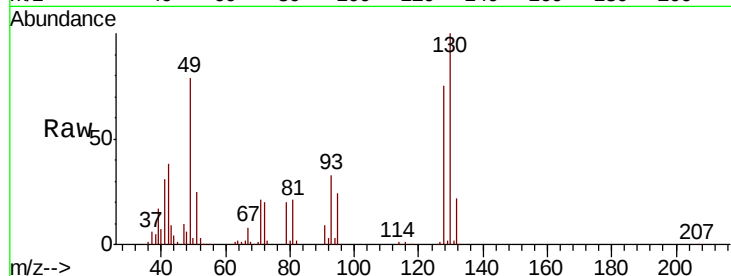
Tot Ion:128 Resp: 167562

Ion Ratio Lower Upper

128 100

49 104.6 0.0 403.3

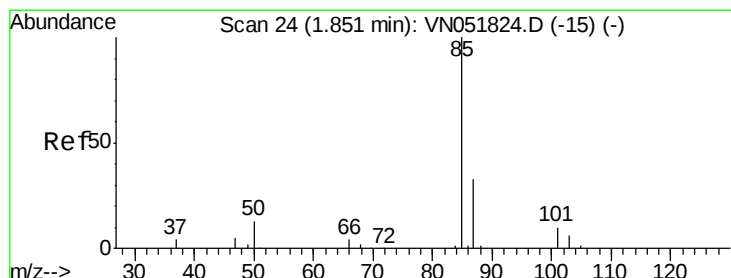
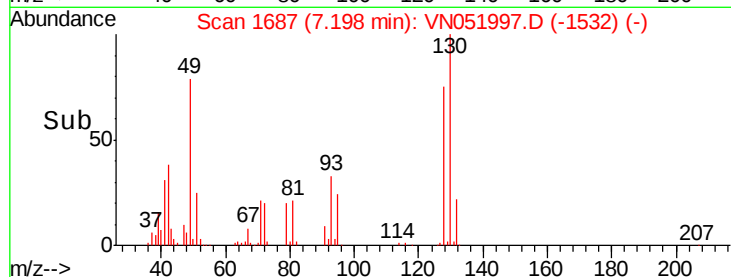
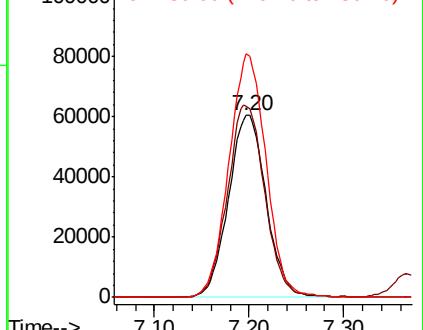
130 131.4 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 20.639 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051997.D

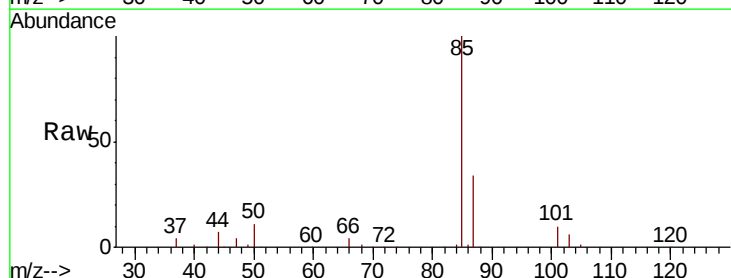
Acq: 24 Oct 2018 19:20

Tgt Ion: 85 Resp: 134355

Ion Ratio Lower Upper

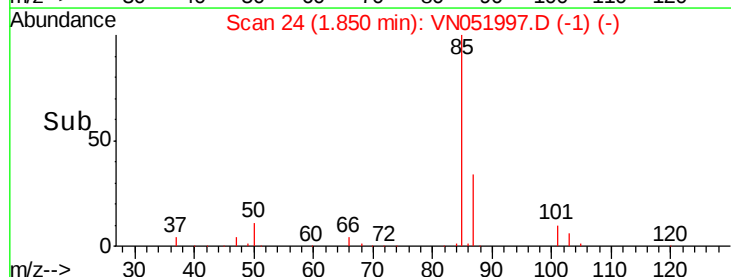
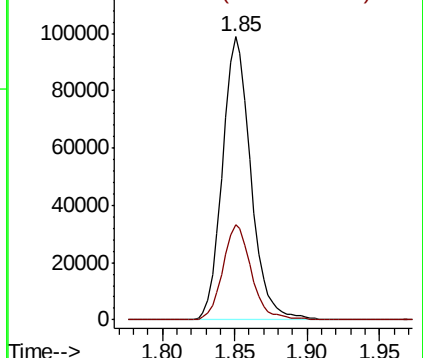
85 100

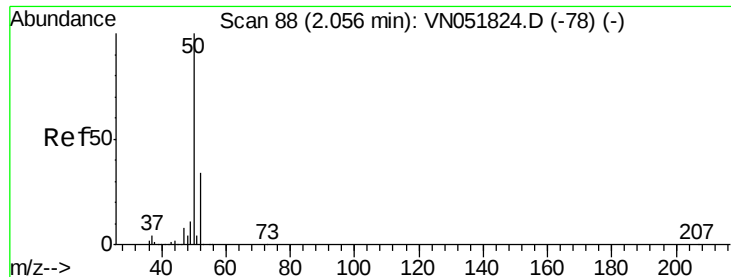
87 33.7 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 17.165 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

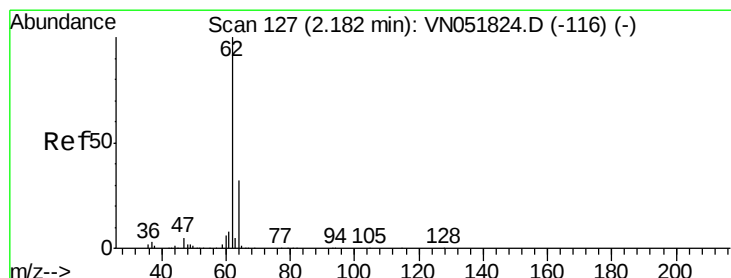
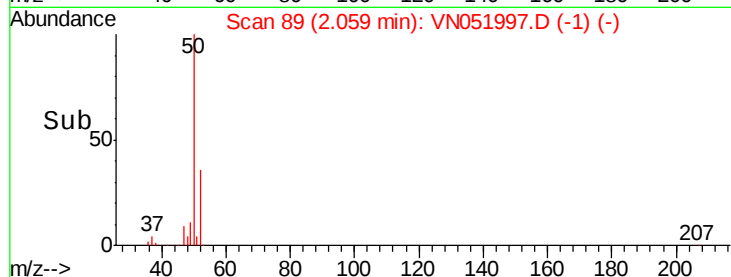
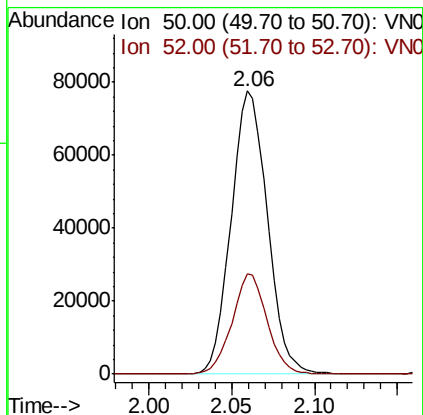
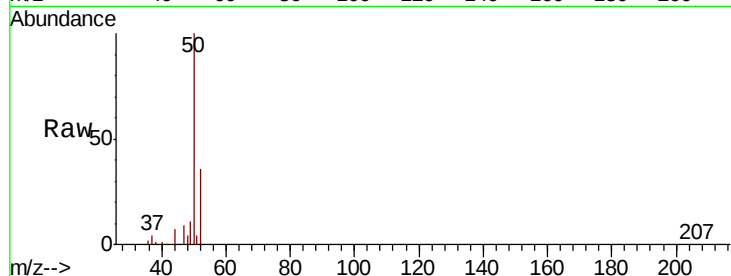
ClientSampleId :

Tot Ion: 50 Resp: 118095

Ion Ratio Lower Upper

50 100

52 35.6 27.2 40.8



#4

Vinyl Chloride

Concen: 14.370 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.01 min

Lab File: VN051997.D

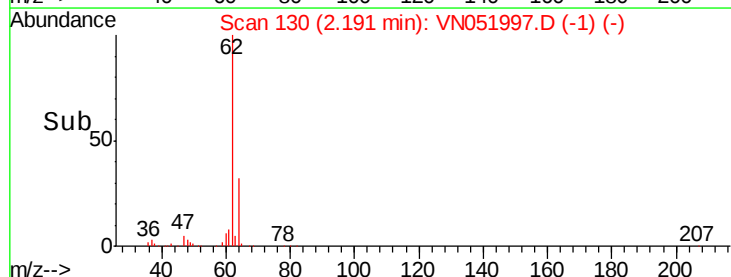
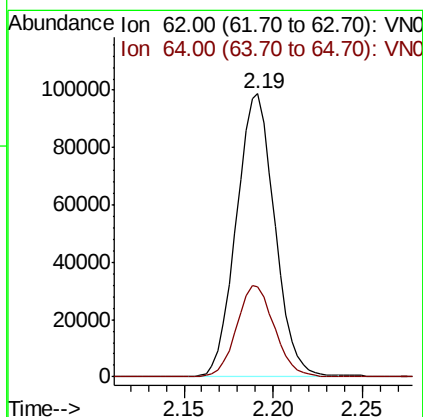
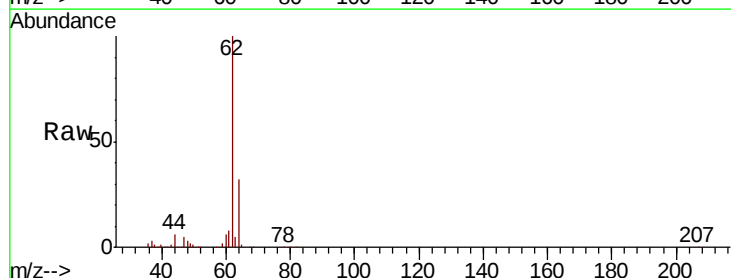
Acq: 24 Oct 2018 19:20

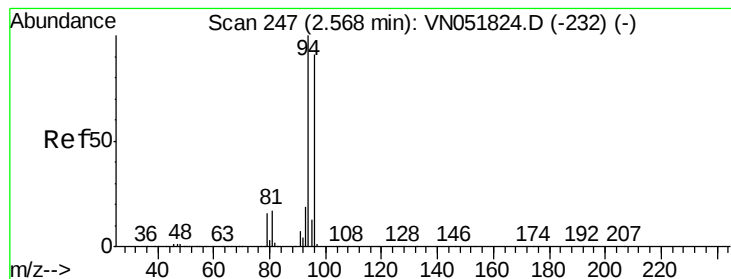
Tgt Ion: 62 Resp: 147638

Ion Ratio Lower Upper

62 100

64 31.8 25.4 38.2





#5

Bromomethane

Concen: 16.477 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.01 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

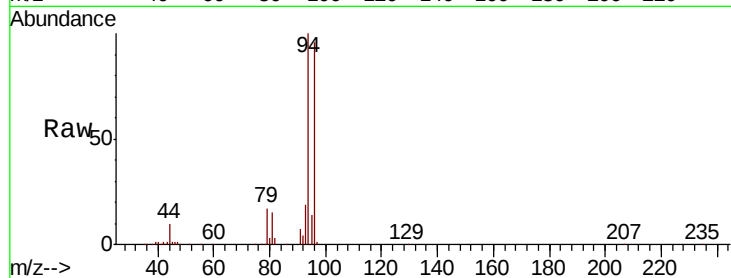
ClientSampleId :

Tot Ion: 94 Resp: 149581

Ion Ratio Lower Upper

94 100

96 95.8 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN051824.D (-232) (-)

Ion 96.00 (95.70 to 96.70): VN051824.D (-232) (-)

2.55

80000

60000

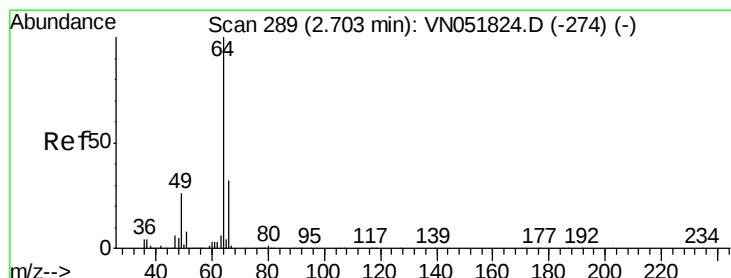
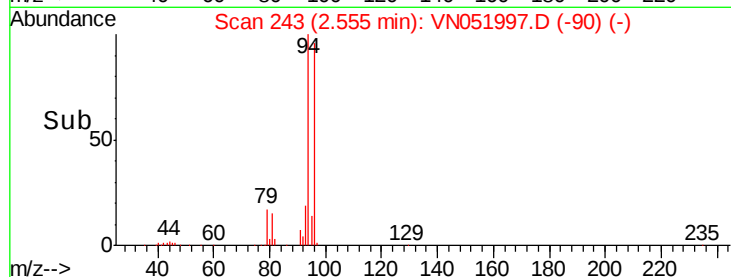
40000

20000

0

Time-->

2.50 2.55 2.60



#6

Chloroethane

Concen: 15.315 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051997.D

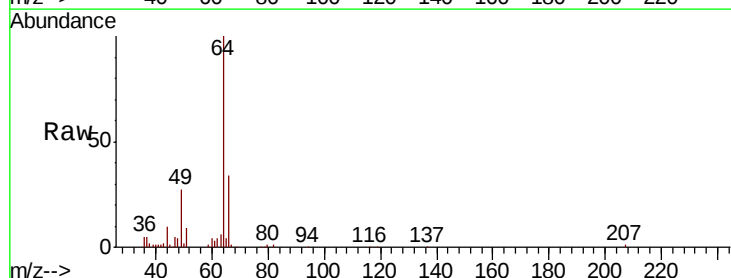
Acq: 24 Oct 2018 19:20

Tgt Ion: 64 Resp: 113399

Ion Ratio Lower Upper

64 100

66 34.0 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN051824.D (-274) (-)

Ion 66.00 (65.70 to 66.70): VN051824.D (-274) (-)

2.70

60000

50000

40000

30000

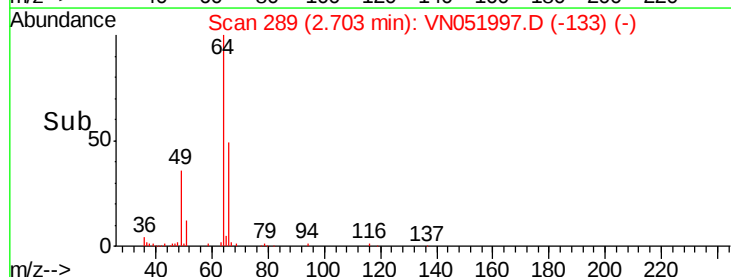
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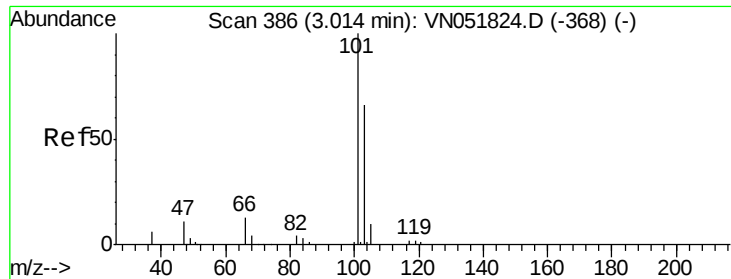
10000

0

Time-->

2.60 2.65 2.70 2.75 2.80



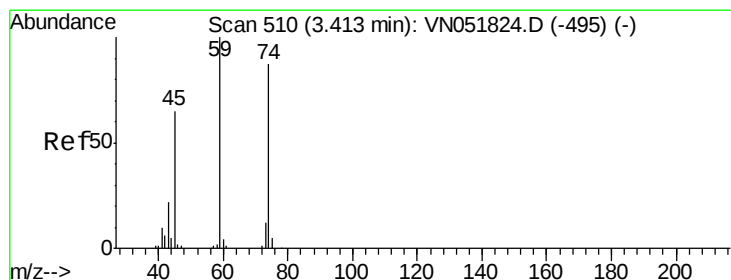
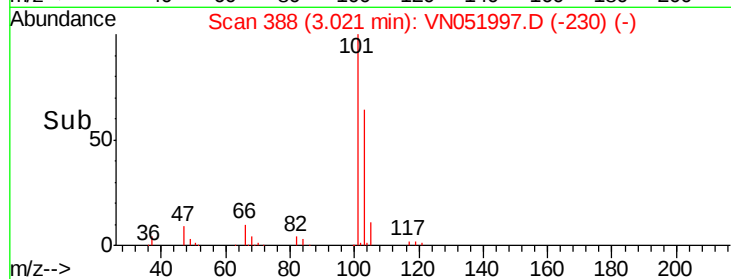
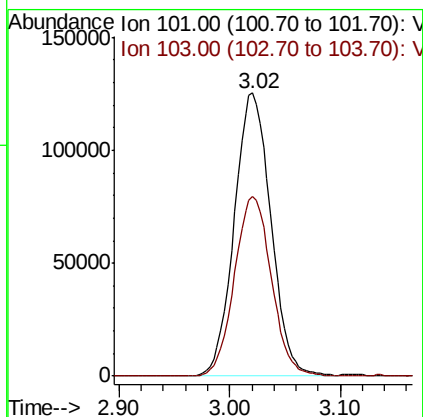
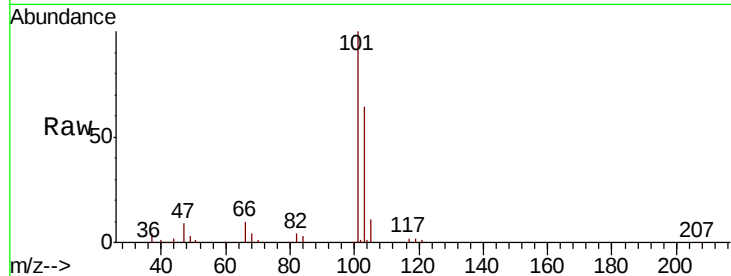


#7

Trichlorofluoromethane  
Concen: 19.713 ug/l  
RT: 3.02 min Scan# 388  
Delta R.T. 0.01 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampled :

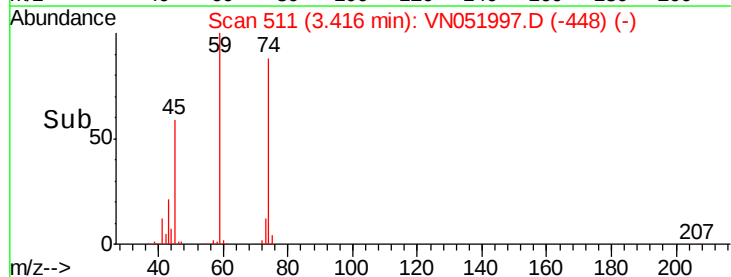
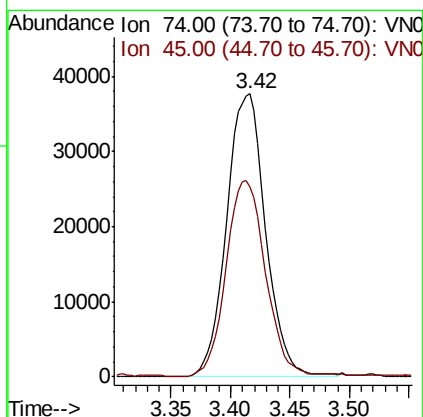
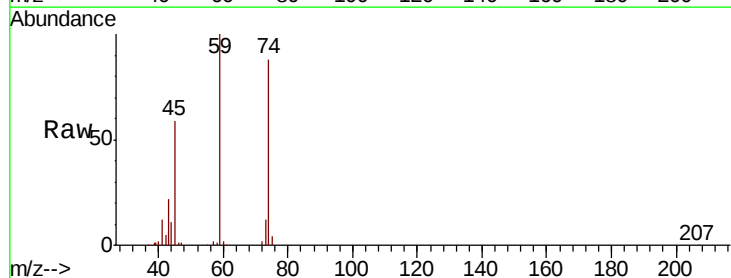
Tot Ion:101 Resp: 288759  
Ion Ratio Lower Upper  
101 100  
103 63.6 54.8 82.2

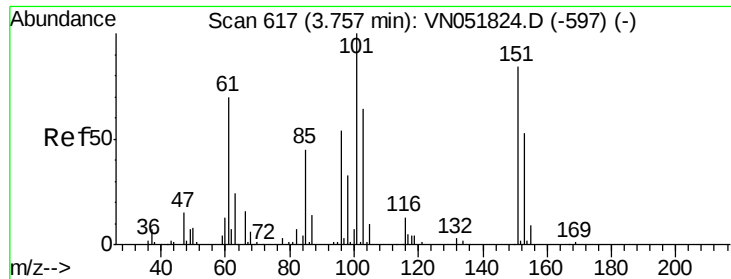


#8

Diethyl Ether  
Concen: 20.086 ug/l  
RT: 3.42 min Scan# 511  
Delta R.T. 0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 74 Resp: 85651  
Ion Ratio Lower Upper  
74 100  
45 70.3 20.7 186.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.263 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.01 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

ClientSampleId :

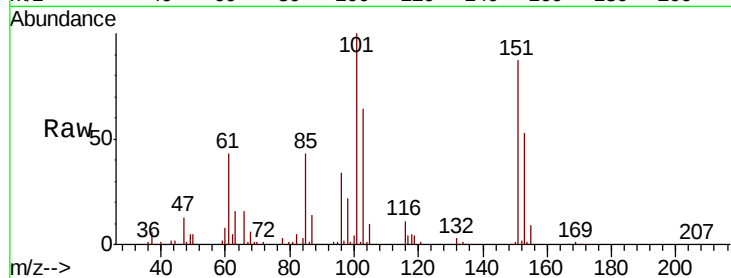
Tot Ion:101 Resp: 177372

Ion Ratio Lower Upper

101 100

85 41.6 0.0 46.0

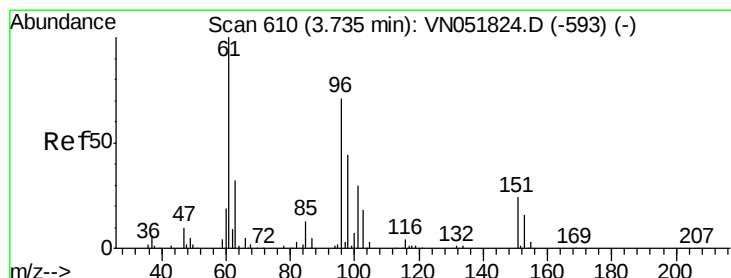
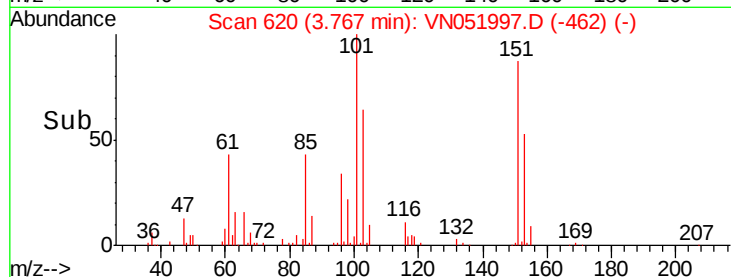
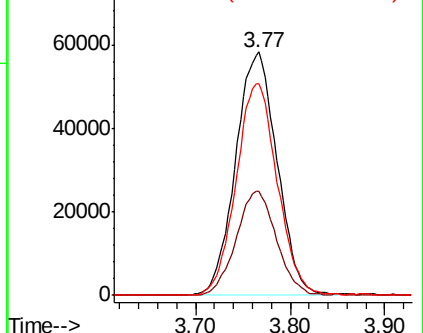
151 86.1 0.0 82.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 20.600 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.01 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

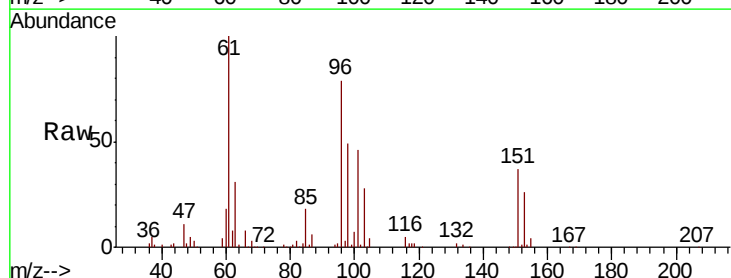
Tgt Ion: 96 Resp: 158925

Ion Ratio Lower Upper

96 100

61 127.5 133.0 199.6#

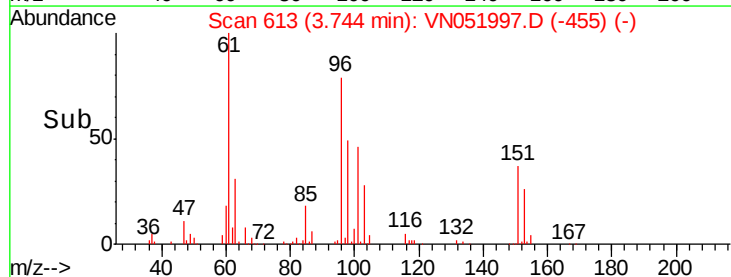
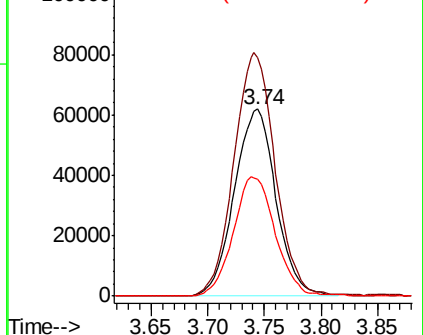
98 62.6 52.6 78.8

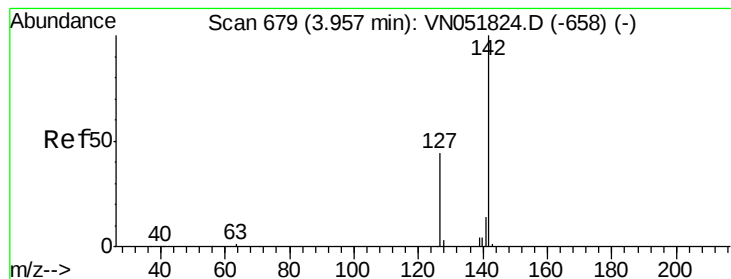


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#11

Methvl Iodide

Concen: 23.530 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampled :

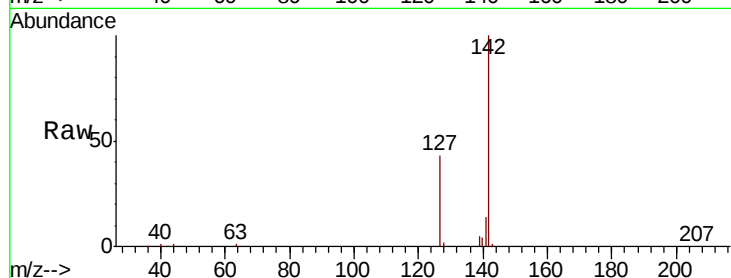
Tot Ion:142 Resp: 263886

Ion Ratio Lower Upper

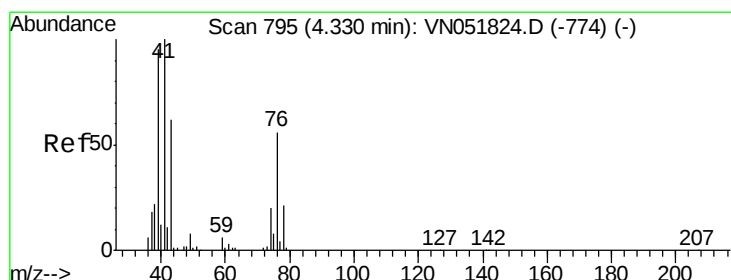
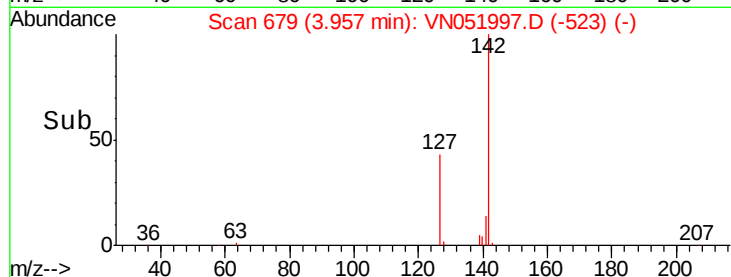
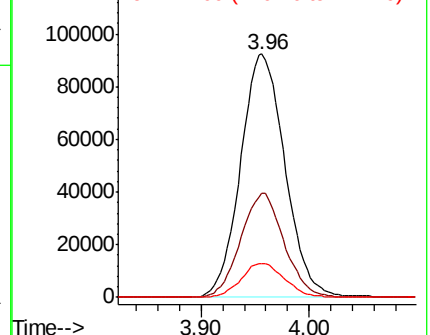
142 100

127 42.8 19.7 59.0

141 13.9 6.3 18.9



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V



#12

Methyl Acetate

Concen: 20.332 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051997.D

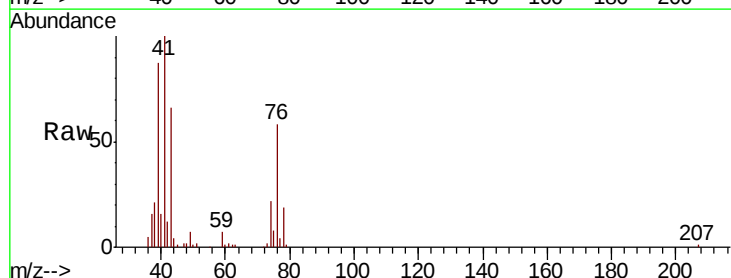
Acq: 24 Oct 2018 19:20

Tgt Ion: 43 Resp: 97403

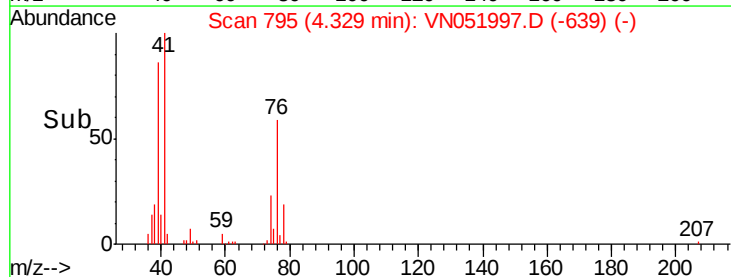
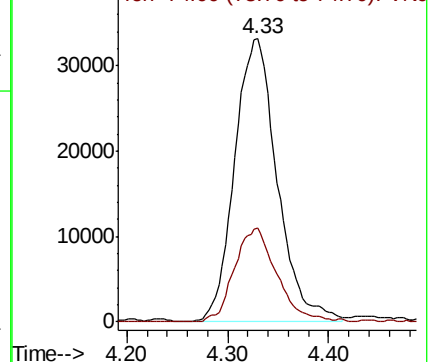
Ion Ratio Lower Upper

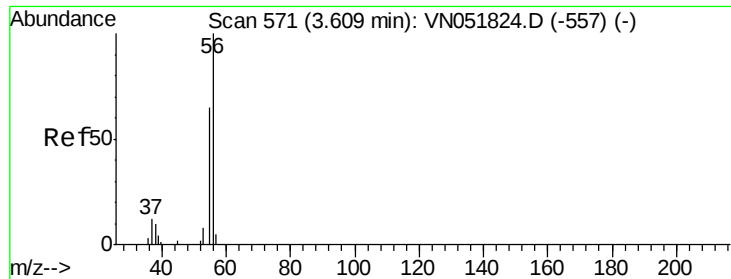
43 100

74 33.2 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): V  
Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 0.836 ug/l

RT: 3.67 min Scan# 589

Delta R.T. 0.06 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

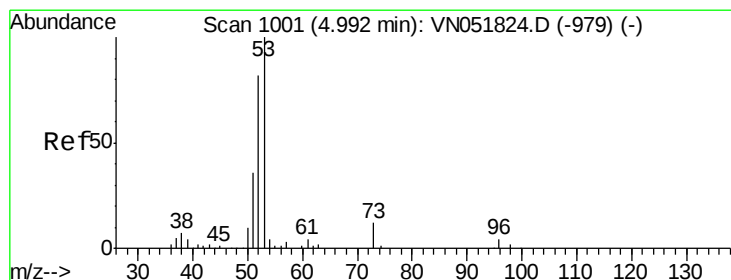
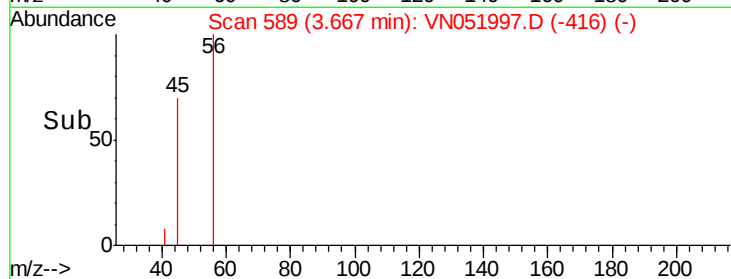
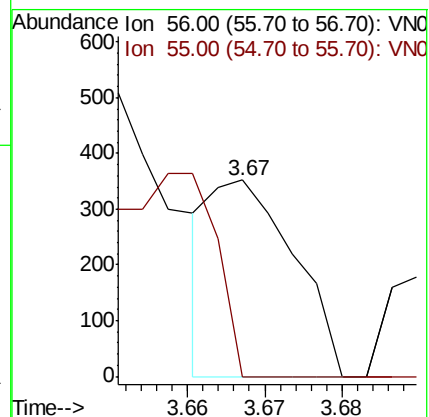
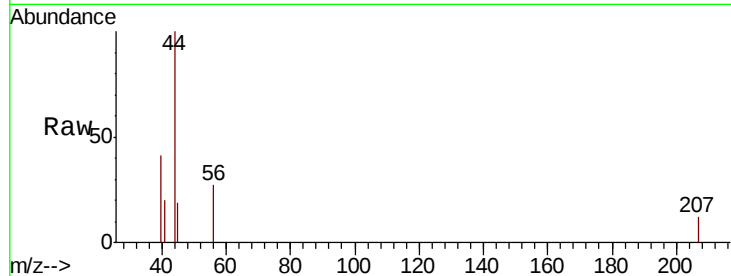
ClientSampleId :

Tot Ion: 56 Resp: 264

Ion Ratio Lower Upper

56 100

55 71.6 64.0 96.0



#14

Acrylonitrile

Concen: 88.872 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

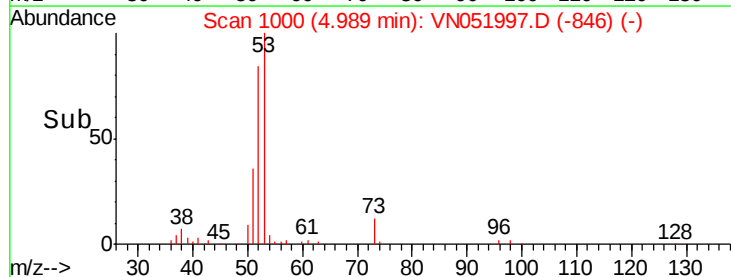
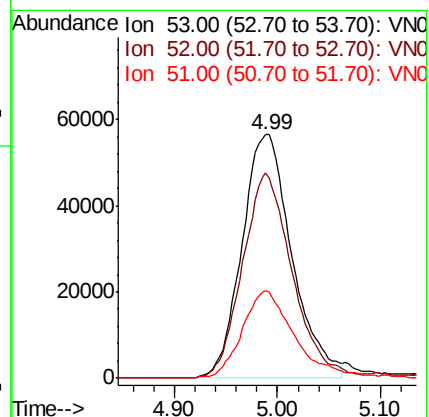
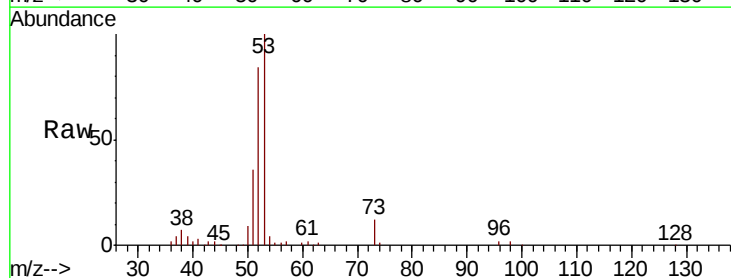
Tgt Ion: 53 Resp: 190284

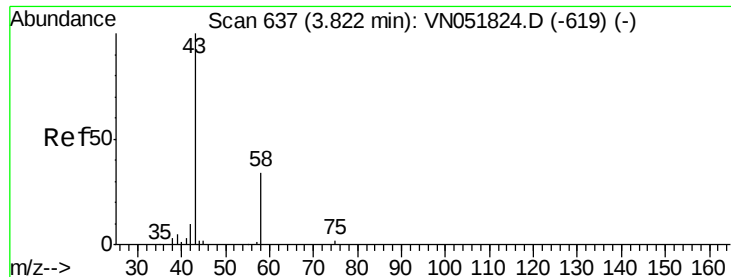
Ion Ratio Lower Upper

53 100

52 83.6 18.3 54.8#

51 37.5 19.7 59.1





#15

Acetone

Concen: 78.484 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

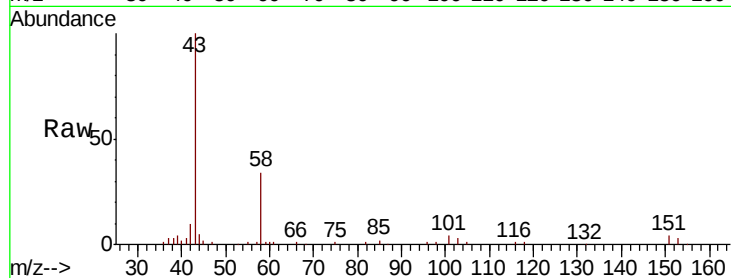
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 58 Resp: 41540

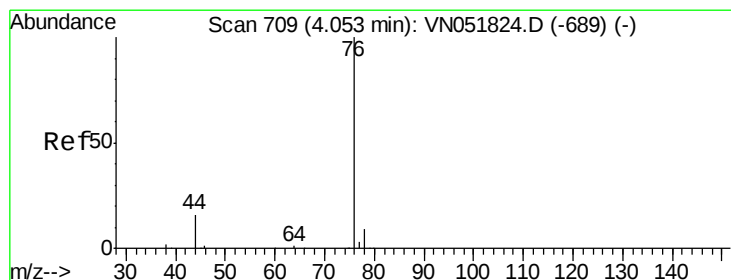
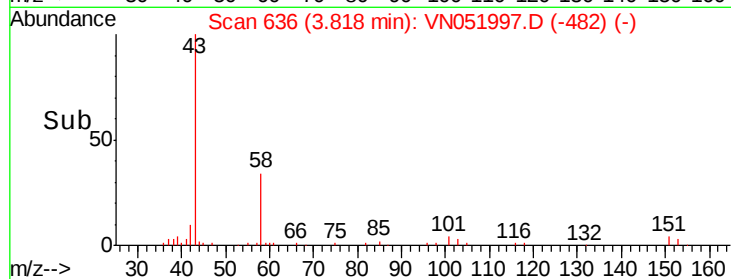
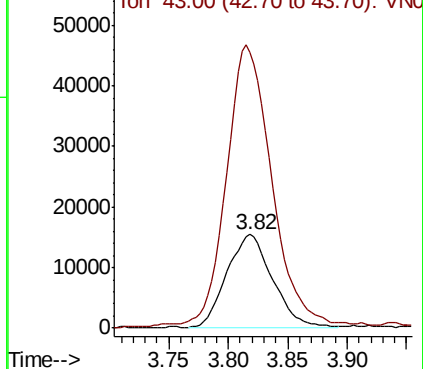
Ion Ratio Lower Upper

58 100

43 288.9 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN051824.D (-619) (-)



#16

Carbon Disulfide

Concen: 15.803 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051997.D

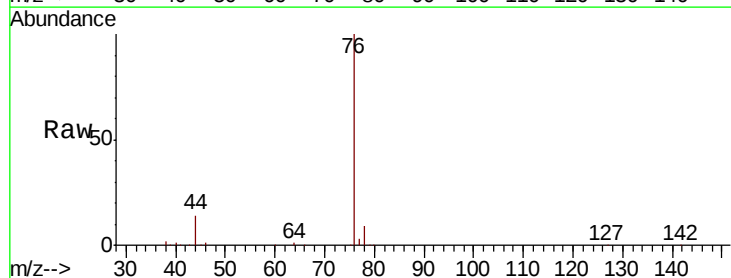
Acq: 24 Oct 2018 19:20

Tgt Ion: 76 Resp: 320179

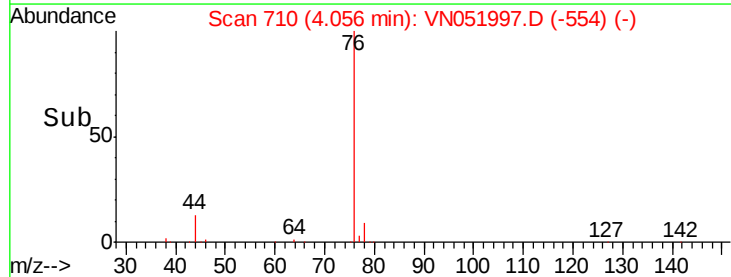
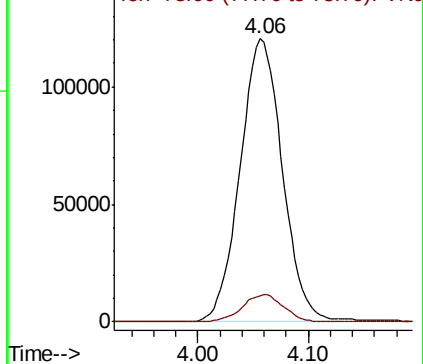
Ion Ratio Lower Upper

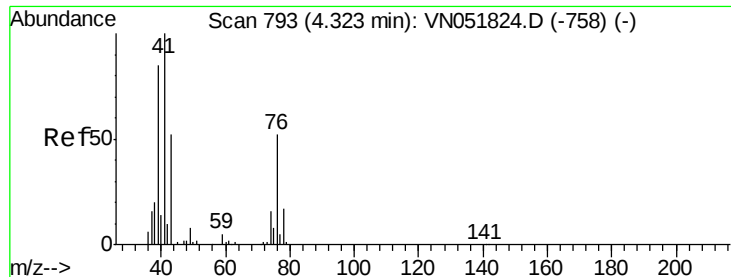
76 100

78 9.4 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-689) (-)

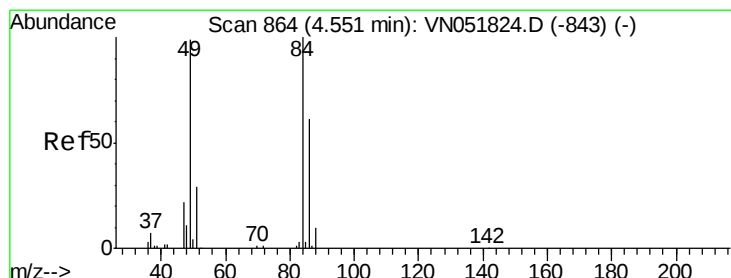
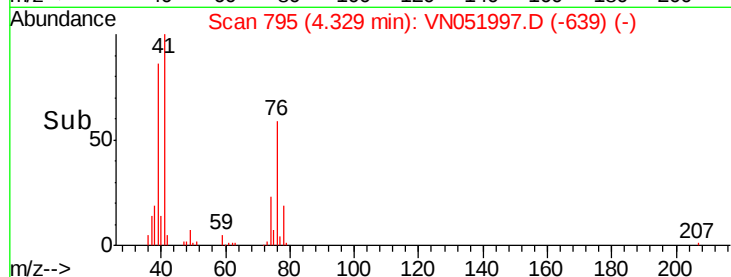
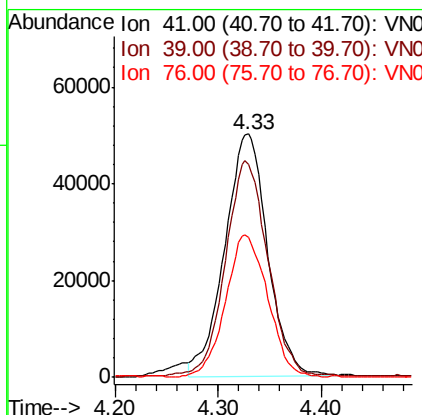
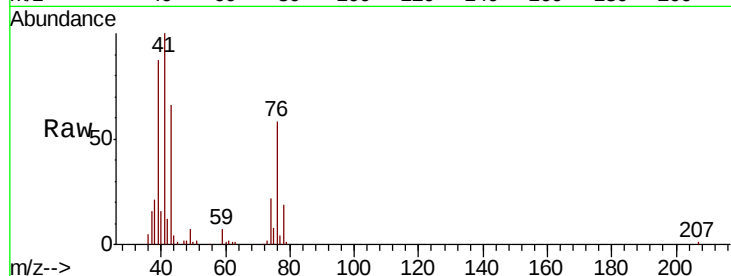




#17  
Allvl chloride  
Concen: 15.757 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

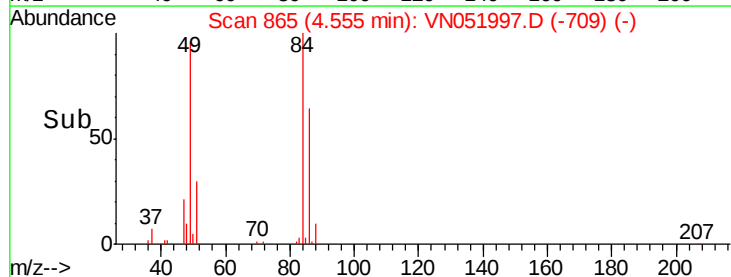
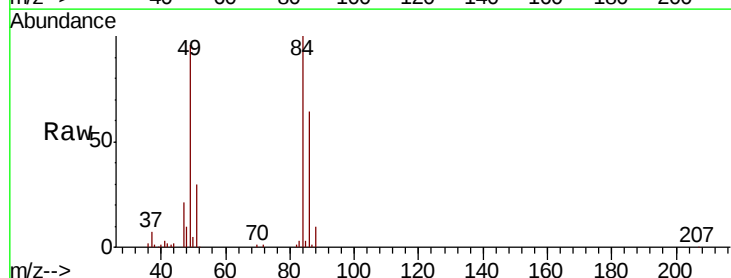
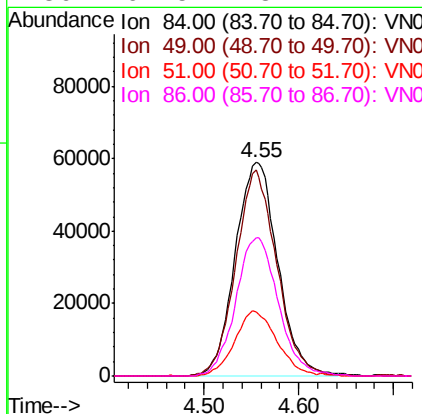
Instrument :  
MSVOA\_N  
ClientSampleId :

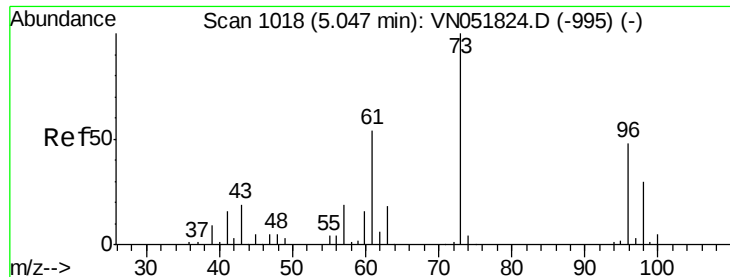
Tot Ion: 41 Resp: 144322  
Ion Ratio Lower Upper  
41 100  
39 87.3 32.6 97.8  
76 57.8 20.2 60.5



#18  
Methylene Chloride  
Concen: 21.376 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 84 Resp: 184383  
Ion Ratio Lower Upper  
84 100  
49 96.0 91.6 137.4  
51 29.8 29.8 44.6  
86 64.5 48.2 72.4





#19

trans-1,2-Dichloroethene

Concen: 19.670 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.01 min

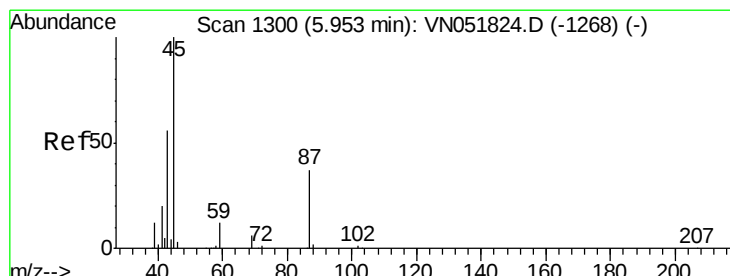
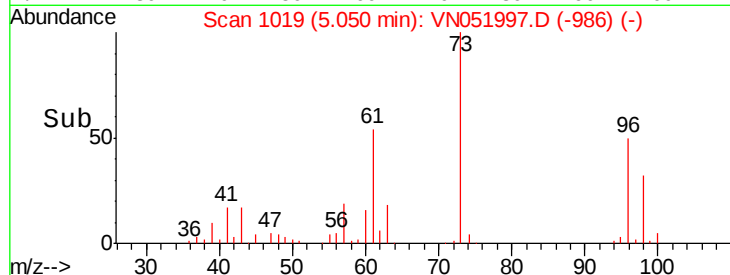
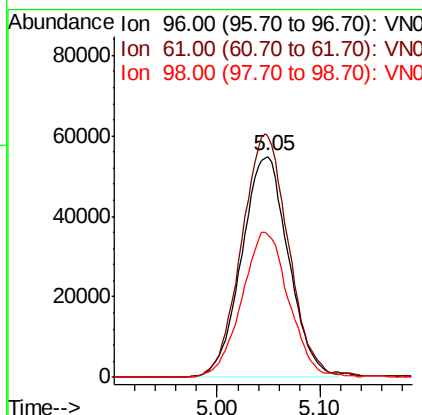
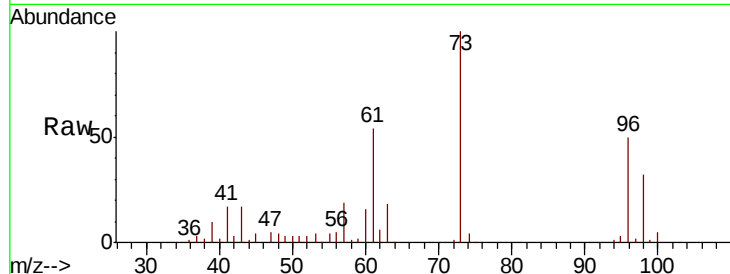
Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 96 Resp: 173272

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 108.5 | 112.3 | 168.5# |
| 98  | 64.2  | 47.1  | 70.7   |



#20

Diisopropyl ether

Concen: 18.674 ug/l

RT: 5.95 min Scan# 1300

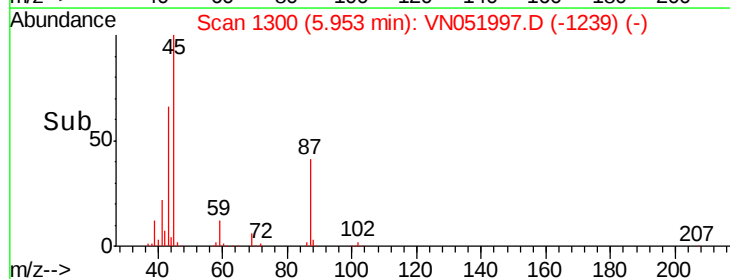
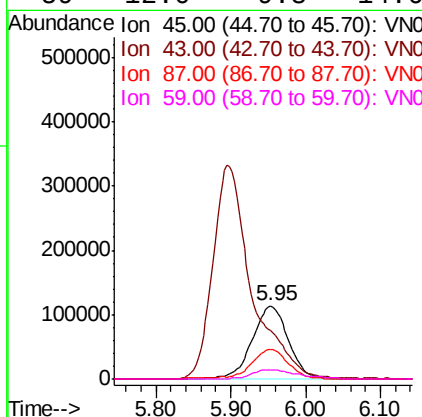
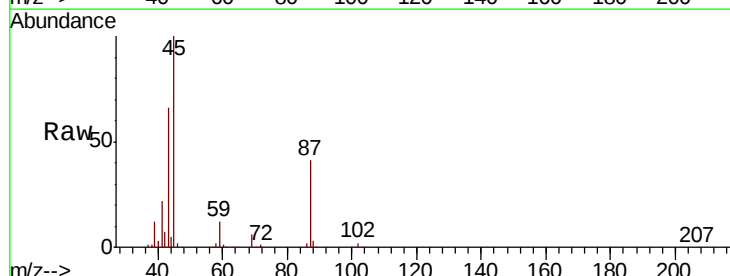
Delta R.T. -0.00 min

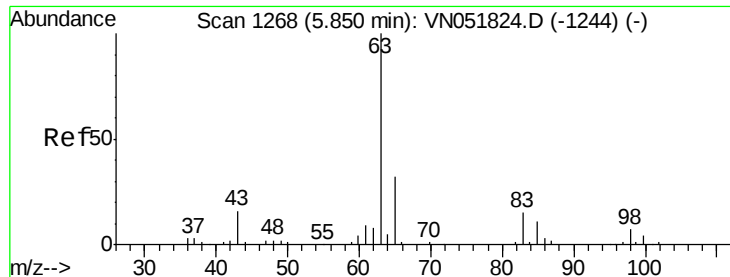
Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Tgt Ion: 45 Resp: 380926

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 63.8  | 62.1  | 93.1  |
| 87  | 40.6  | 19.9  | 29.9# |
| 59  | 12.0  | 9.8   | 14.6  |

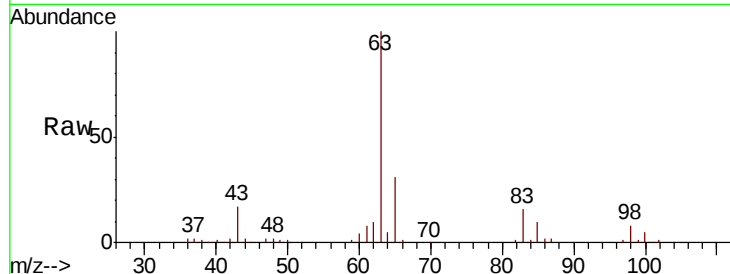




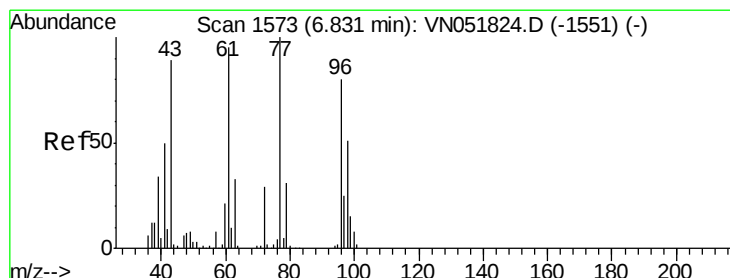
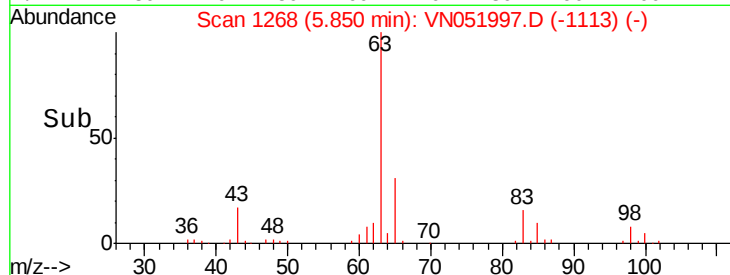
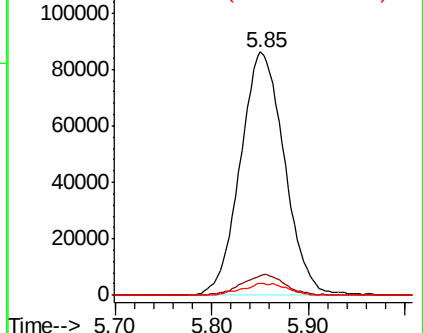
#21  
 1,1-Dichloroethane  
 Concen: 19.112 ug/l  
 RT: 5.85 min Scan# 1268  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 8.1   | 4.1   | 12.3  |
| 100     | 5.1   | 1.6   | 4.7#  |

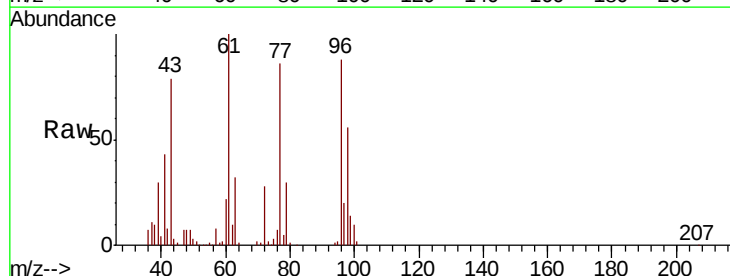


Abundance Ion 63.00 (62.70 to 63.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0  
 Ion 100.00 (99.70 to 100.70): VN0

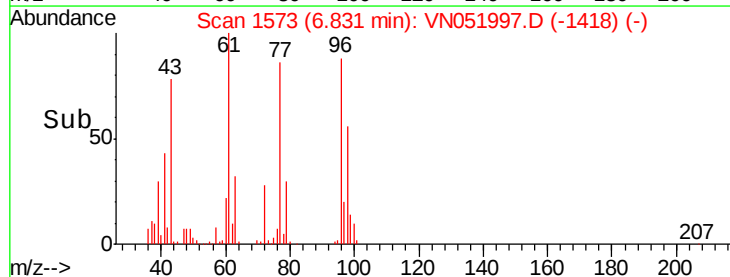
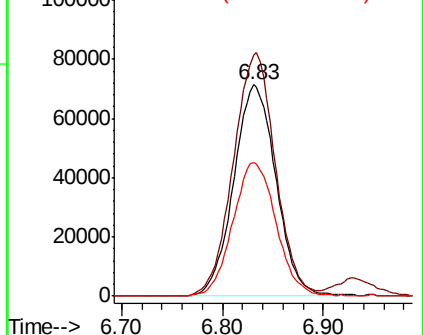


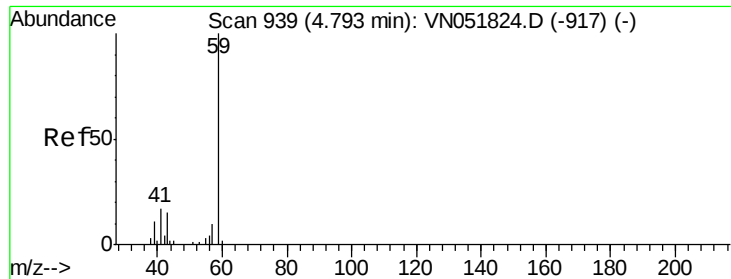
#22  
 cis-1,2-Dichloroethene  
 Concen: 20.118 ug/l  
 RT: 6.83 min Scan# 1573  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 114.2 | 124.5 | 186.7# |
| 98      | 64.5  | 51.9  | 77.9   |



Abundance Ion 96.00 (95.70 to 96.70): VN0  
 Ion 61.00 (60.70 to 61.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0

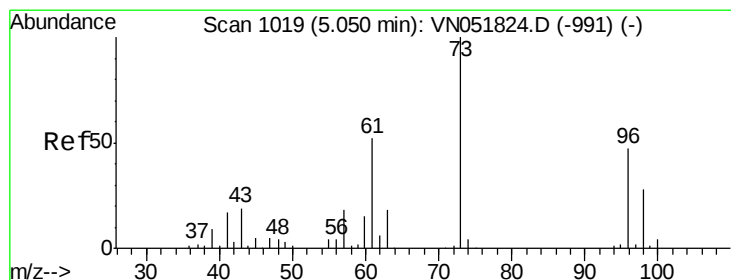
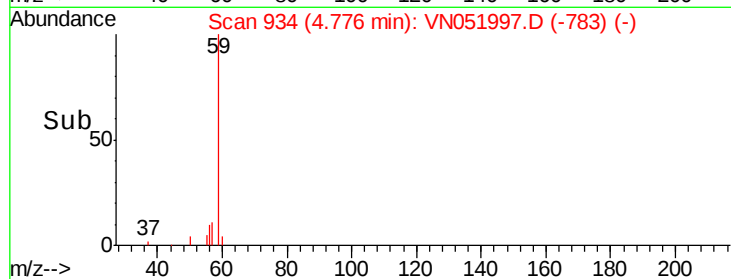
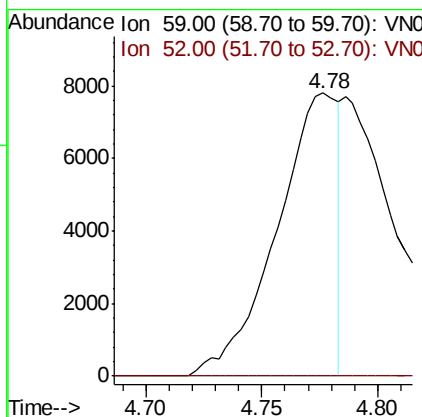
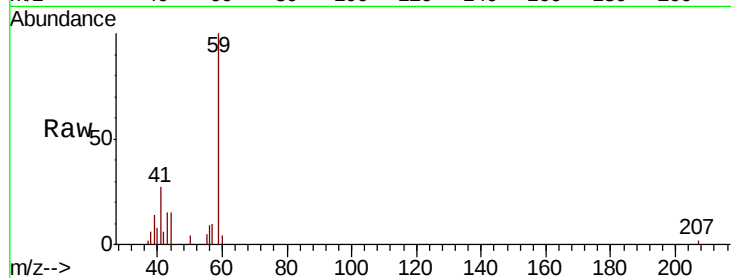




#23  
tert-Butyl Alcohol  
Concen: 25.388 ug/l  
RT: 4.78 min Scan# 934  
Delta R.T. -0.01 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

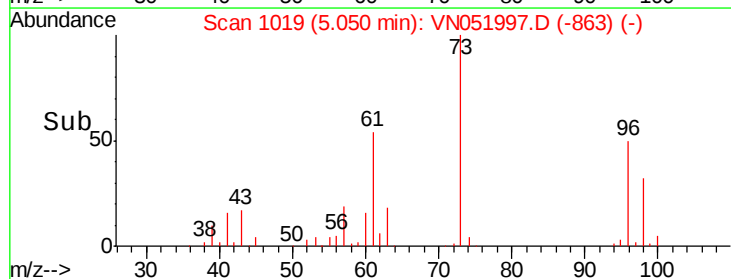
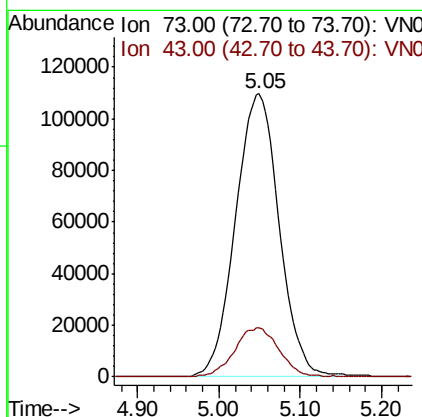
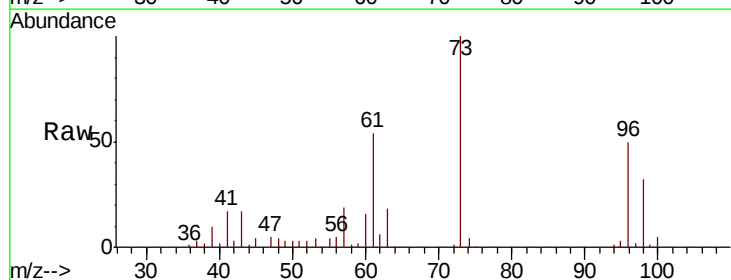
Instrument :  
MSVOA\_N  
ClientSampleId :

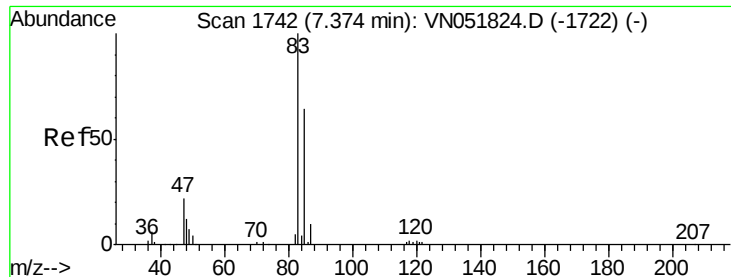
Tot Ion: 59 Resp: 14316  
Ion Ratio Lower Upper  
59 100  
52 0.5 0.0 0.0#



#24  
Methyl tert-Butyl Ether  
Concen: 18.267 ug/l  
RT: 5.05 min Scan# 1019  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 73 Resp: 406010  
Ion Ratio Lower Upper  
73 100  
43 7.6 5.4 8.0





#25

Chloroform

Concen: 19.909 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

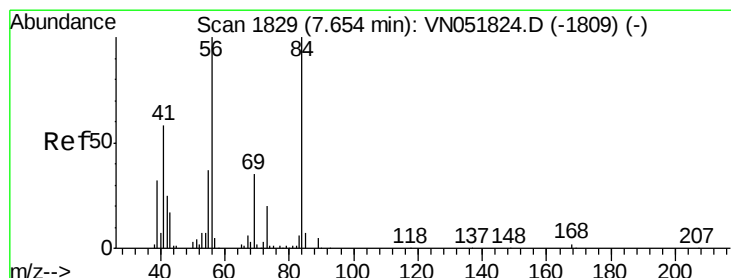
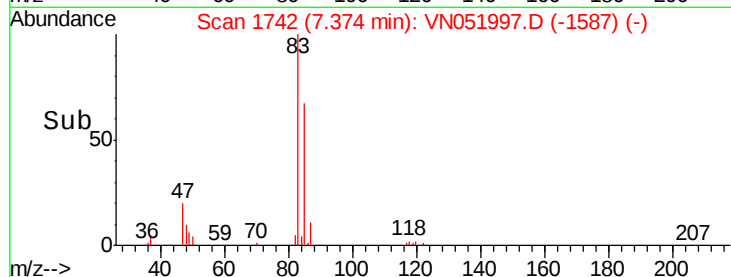
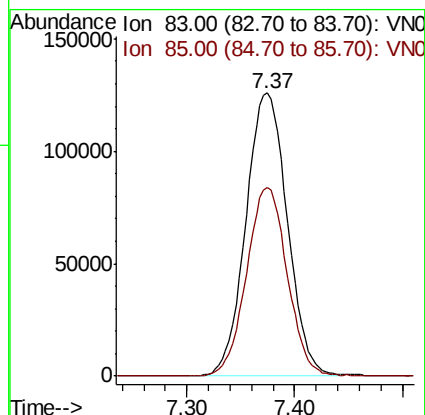
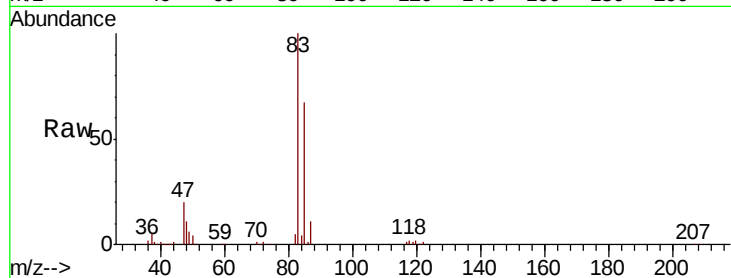
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 83 Resp: 336653

Ion Ratio Lower Upper

83 100

85 66.6 54.6 82.0



#26

Cyclohexane

Concen: 17.335 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

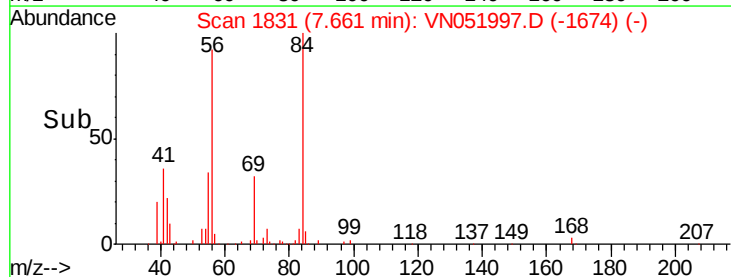
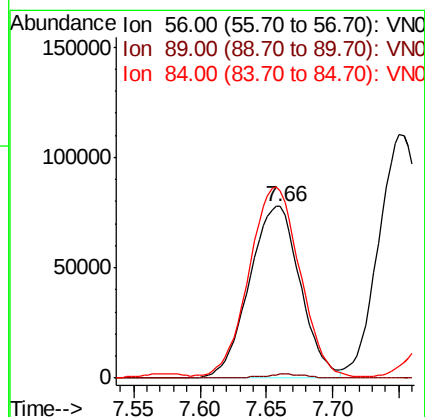
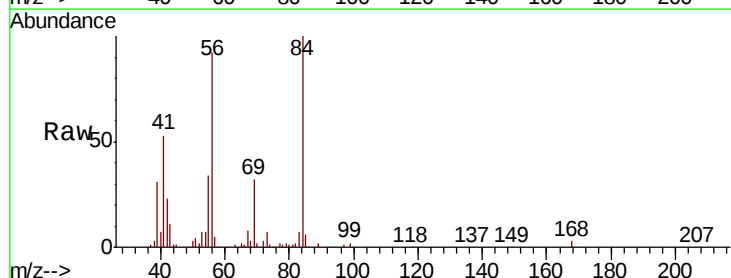
Tgt Ion: 56 Resp: 209476

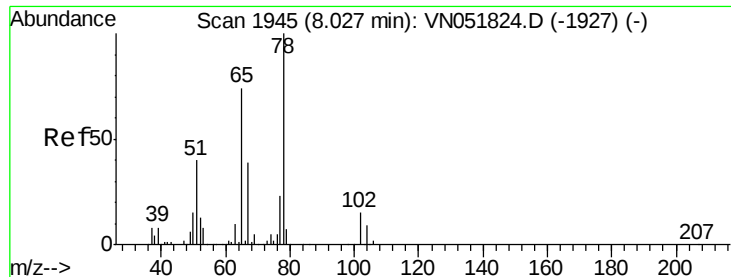
Ion Ratio Lower Upper

56 100

89 1.6 1.5 2.3

84 109.6 64.2 96.4#





#27

1,2-Dichloroethane-d4

Concen: 17.335 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

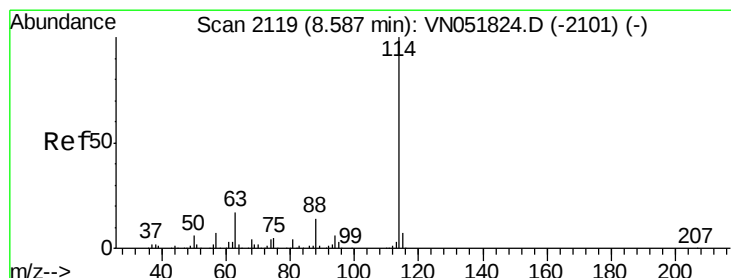
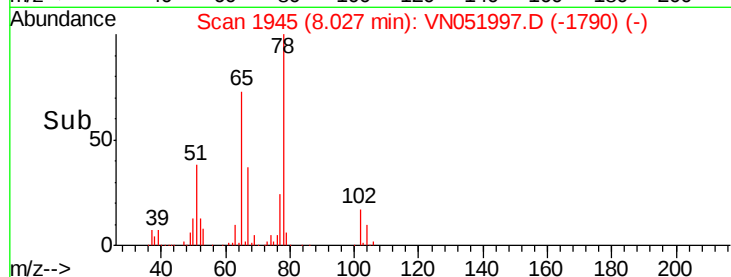
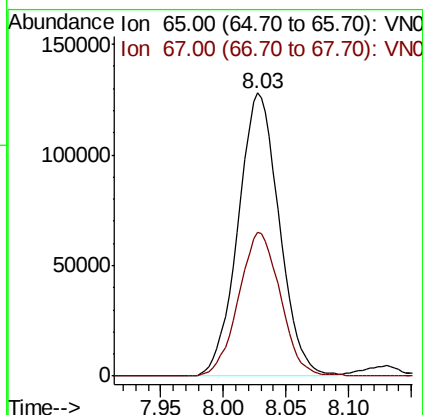
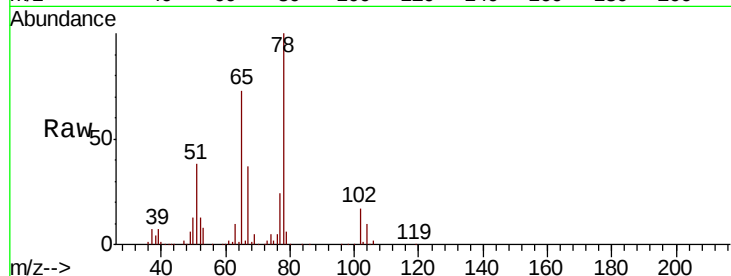
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 65 Resp: 292278

Ion Ratio Lower Upper

65 100

67 51.4 41.8 62.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

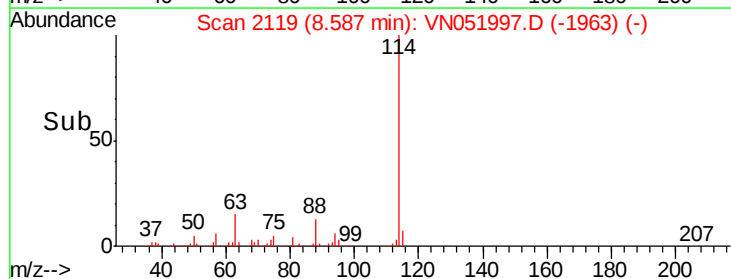
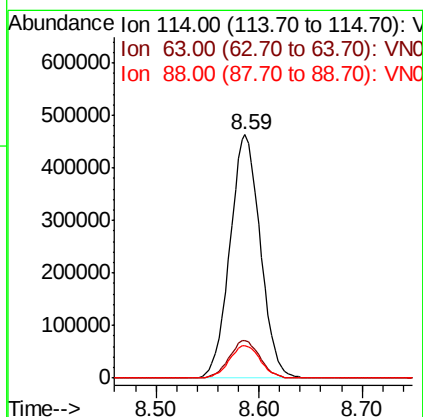
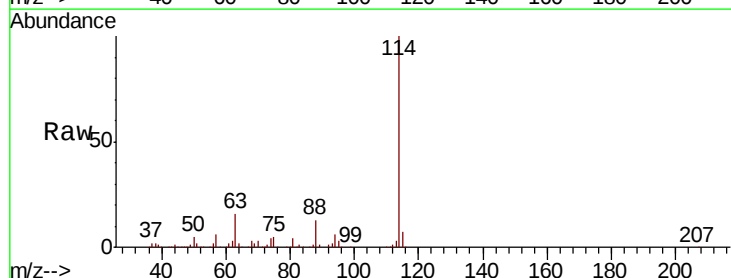
Tgt Ion: 114 Resp: 949384

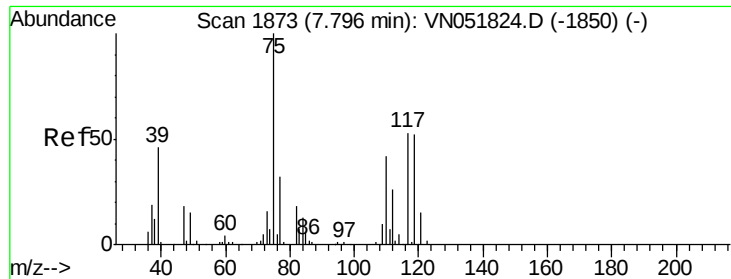
Ion Ratio Lower Upper

114 100

63 15.6 16.2 24.2#

88 13.7 12.2 18.4





#29

1,1-Dichloropropene

Concen: 18.715 ug/l

RT: 7.80 min Scan# 1873

Delta R.T. 0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampleId :

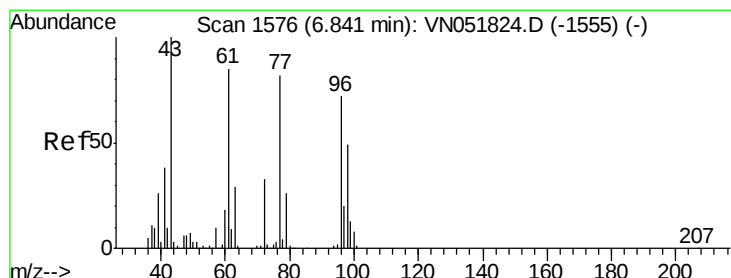
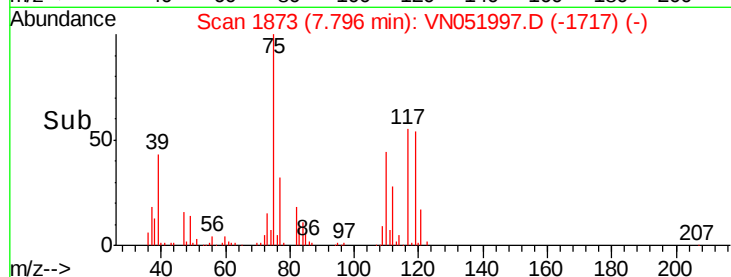
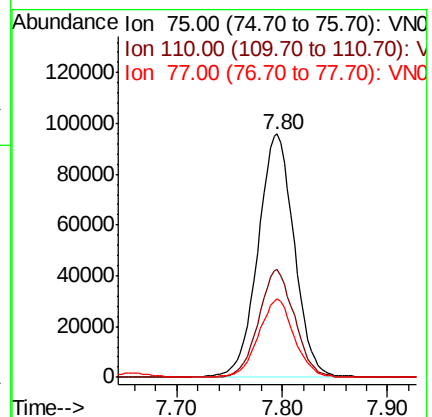
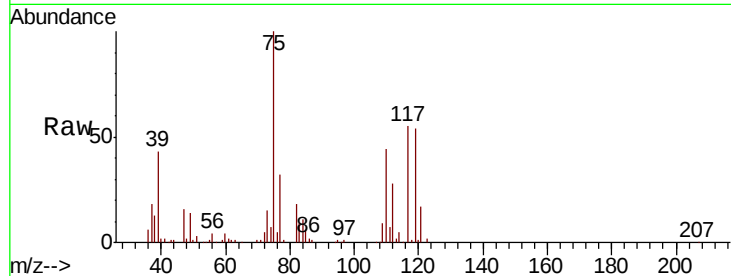
Tot Ion: 75 Resp: 229026

Ion Ratio Lower Upper

75 100

110 43.6 0.0 70.8

77 31.6 0.0 61.6



#30

2-Butanone

Concen: 75.712 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

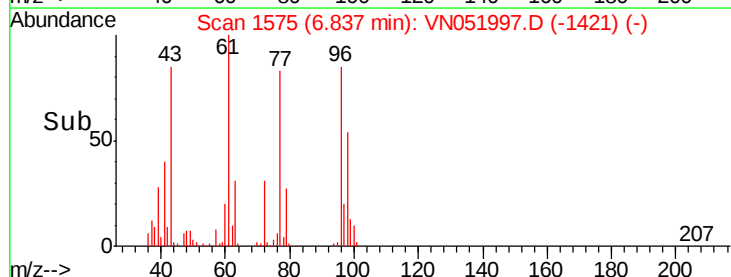
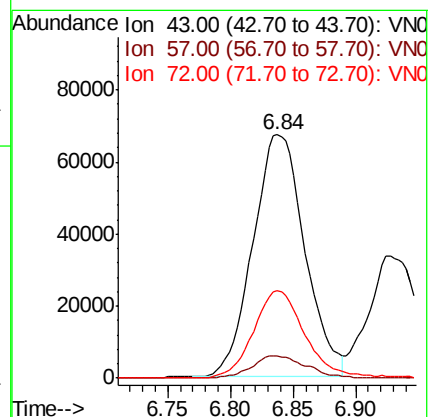
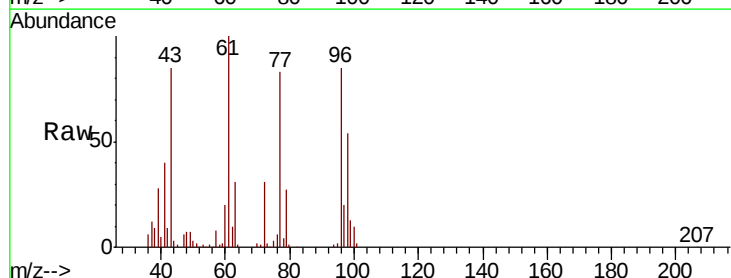
Tgt Ion: 43 Resp: 193658

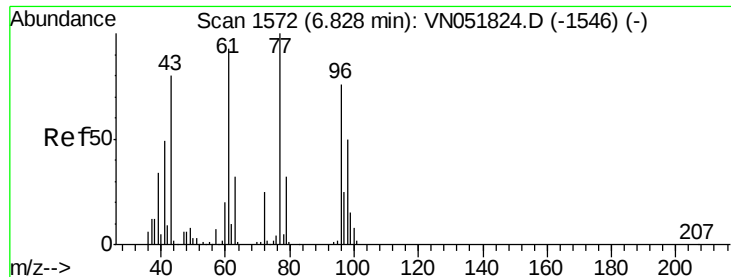
Ion Ratio Lower Upper

43 100

57 9.7 4.5 6.7#

72 35.5 21.5 32.3#





#31

2,2-Dichloropropane

Concen: 15.910 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

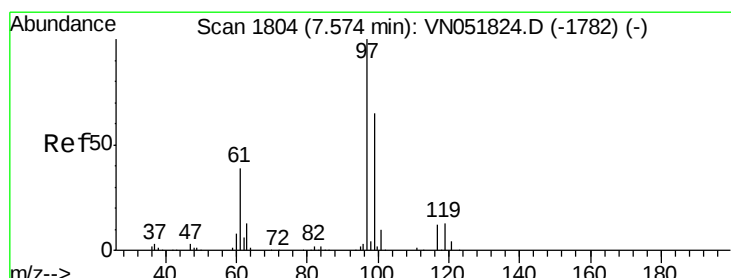
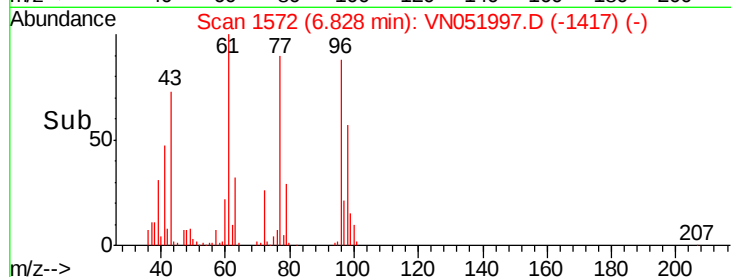
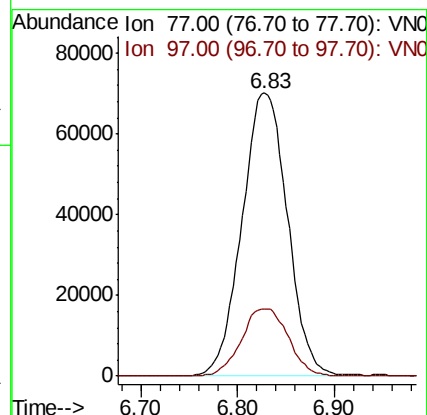
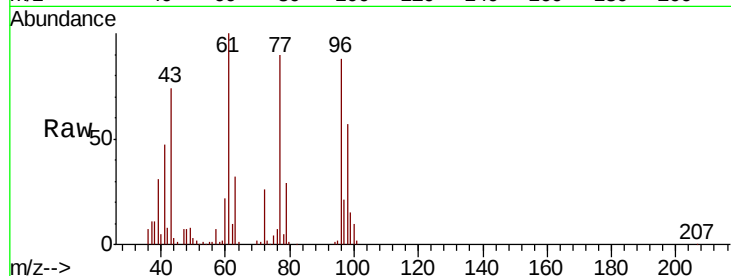
ClientSampleId :

Tot Ion: 77 Resp: 229041

Ion Ratio Lower Upper

77 100

97 24.6 12.0 18.0#



#32

1,1,1-Trichloroethane

Concen: 18.619 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

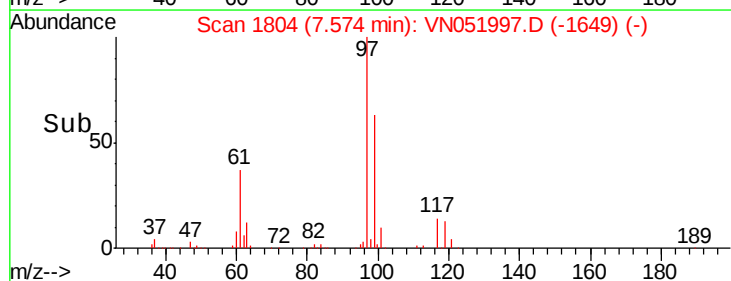
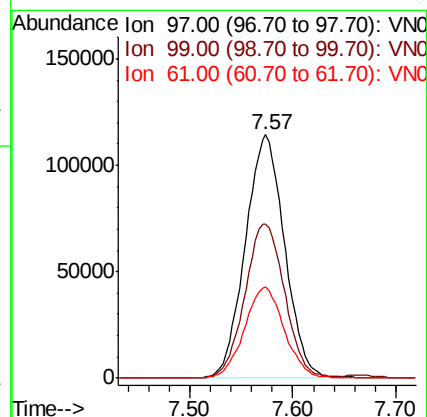
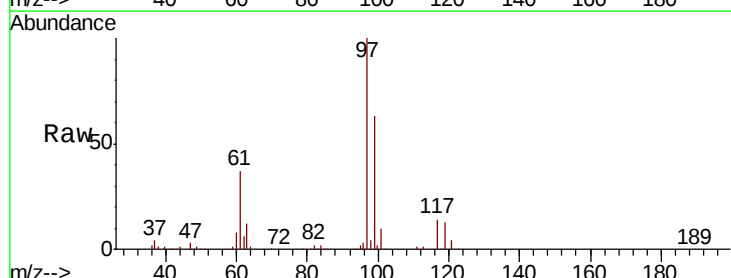
Tgt Ion: 97 Resp: 302080

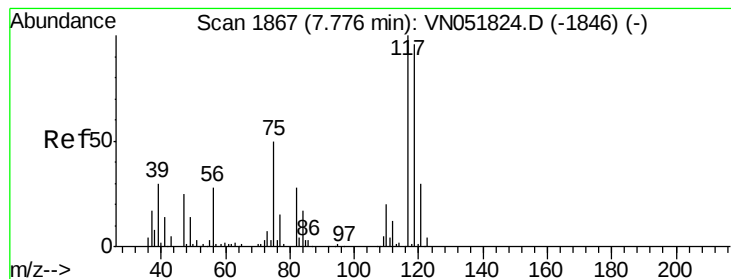
Ion Ratio Lower Upper

97 100

99 64.1 51.6 77.4

61 37.8 37.4 56.0





#33

Carbon Tetrachloride

Concen: 18.115 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

ClientSampleId :

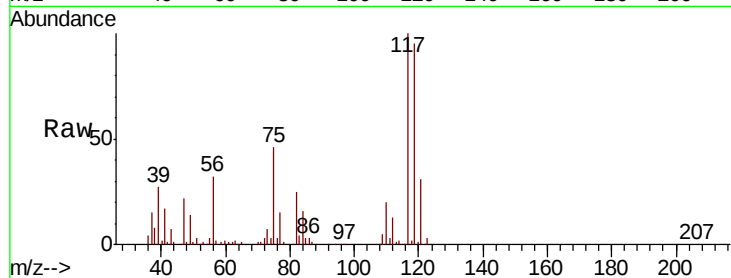
Tot Ion:117 Resp: 265909

Ion Ratio Lower Upper

117 100

119 94.8 85.1 127.7

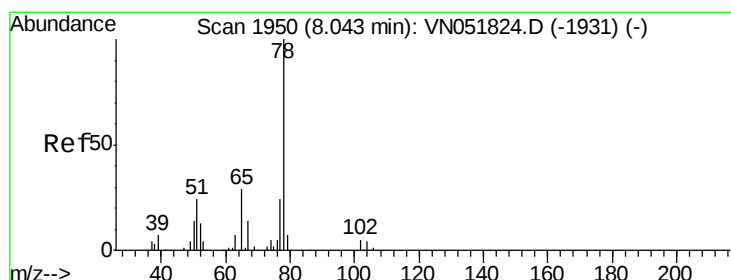
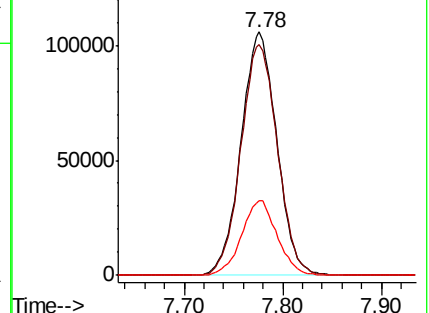
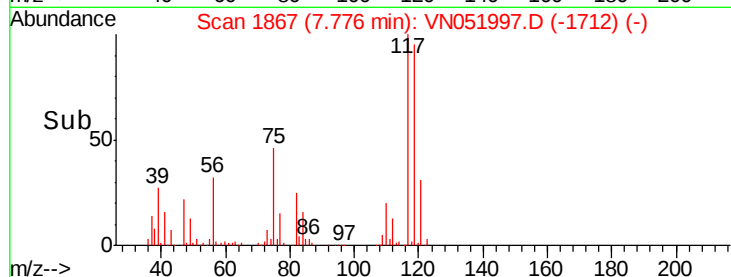
121 30.9 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 19.490 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

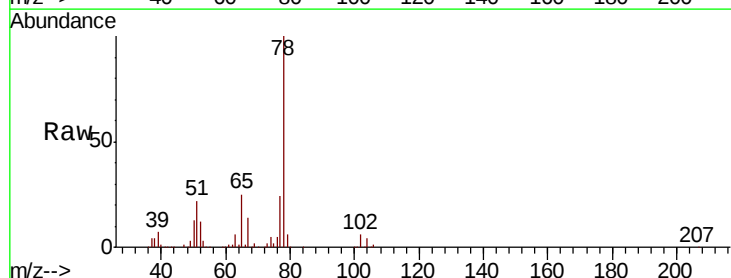
Tgt Ion: 78 Resp: 705522

Ion Ratio Lower Upper

78 100

77 23.9 18.8 28.2

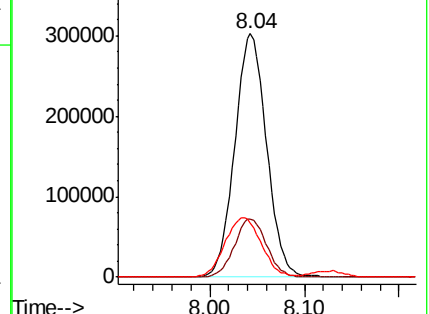
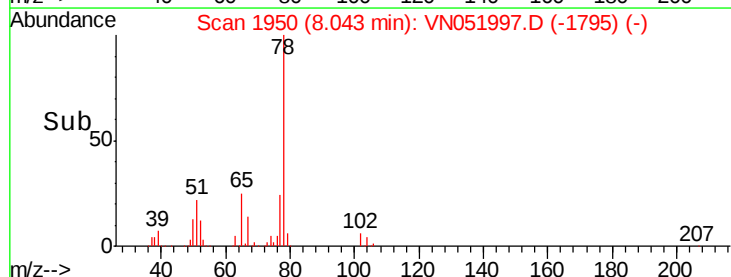
51 21.8 46.2 69.4#

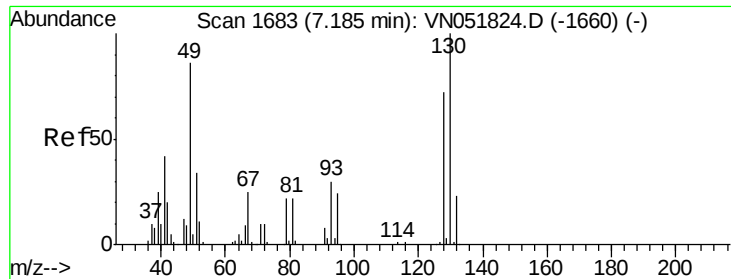


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

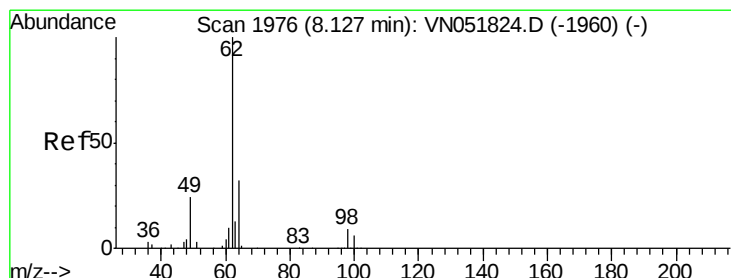
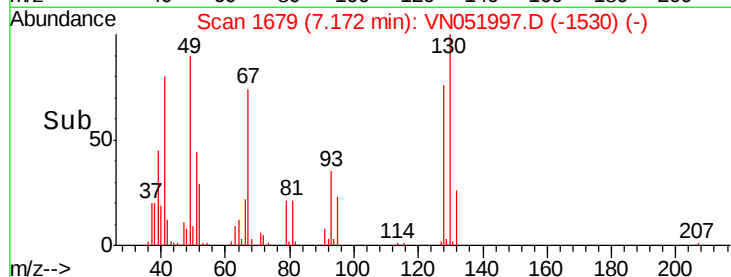
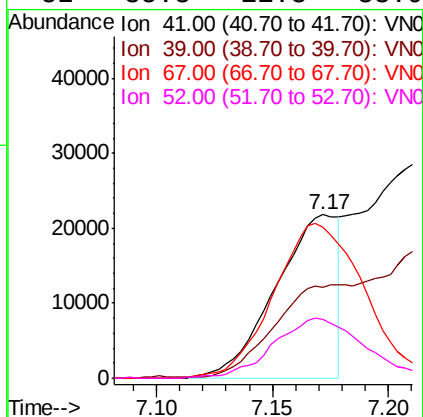
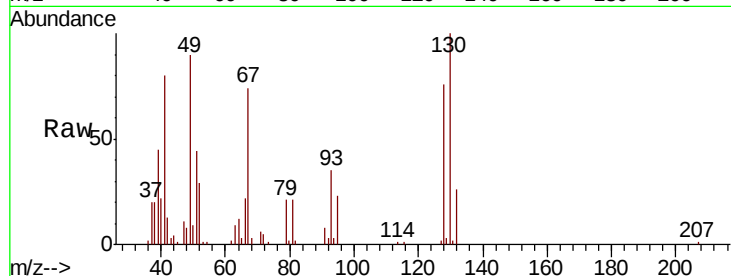




#35  
Methacrylonitrile  
Concen: 12.191 ug/l  
RT: 7.17 min Scan# 1679  
Delta R.T. -0.02 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

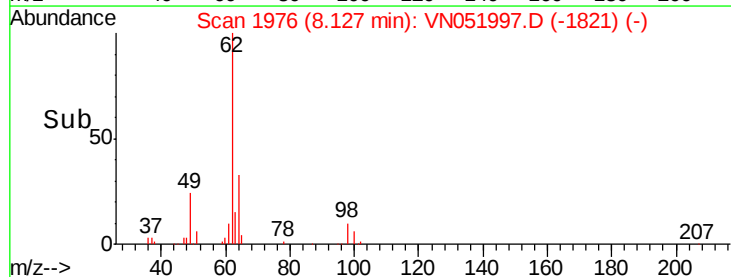
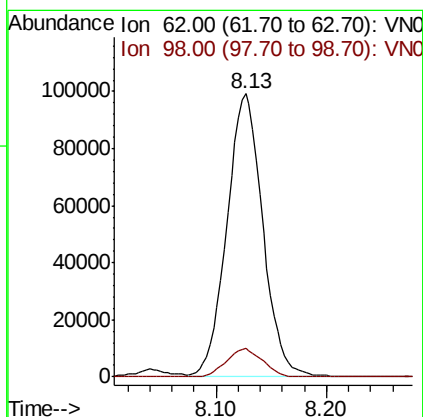
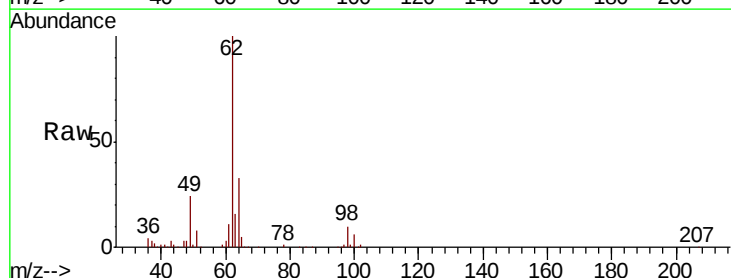
Instrument :  
MSVOA\_N  
ClientSampled :

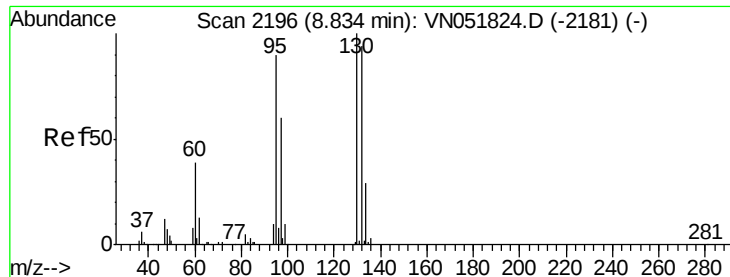
Tot Ion: 41 Resp: 40967  
Ion Ratio Lower Upper  
41 100  
39 55.1 22.6 67.7  
67 91.7 28.9 86.8#  
52 35.3 11.3 33.9#



#36  
1,2-Dichloroethane  
Concen: 19.197 ug/l  
RT: 8.13 min Scan# 1976  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 62 Resp: 222662  
Ion Ratio Lower Upper  
62 100  
98 10.1 6.9 10.3

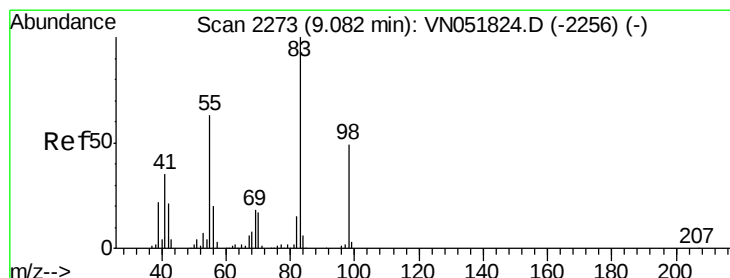
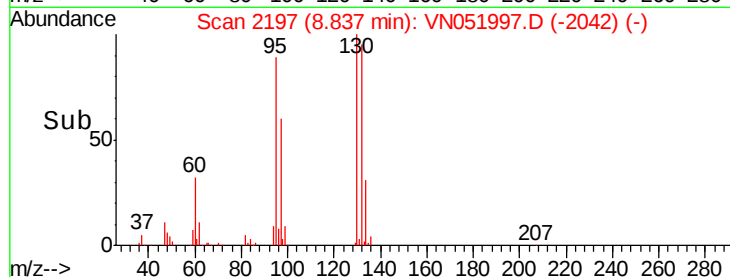
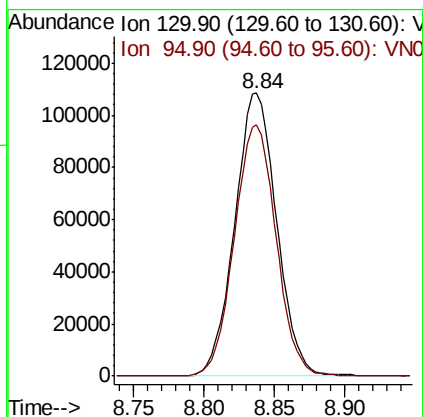
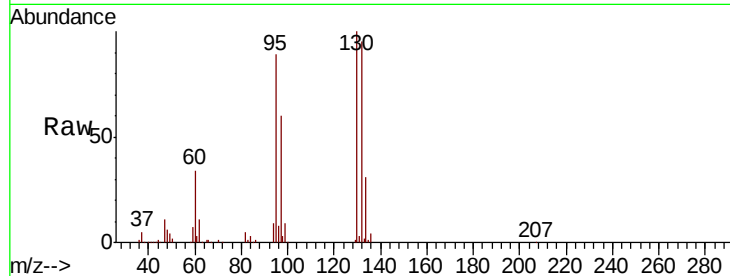




#37  
 Trichloroethene  
 Concen: 20.105 ug/l  
 RT: 8.84 min Scan# 2197  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

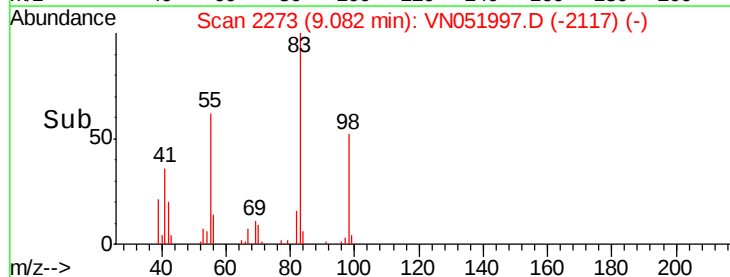
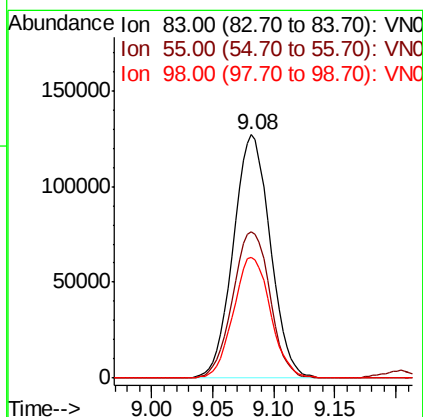
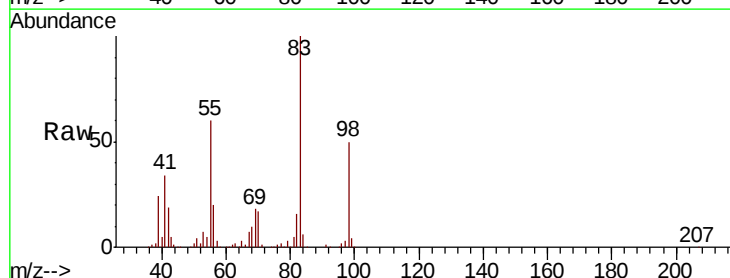
Instrument :  
 MSVOA\_N  
 ClientSampleId :

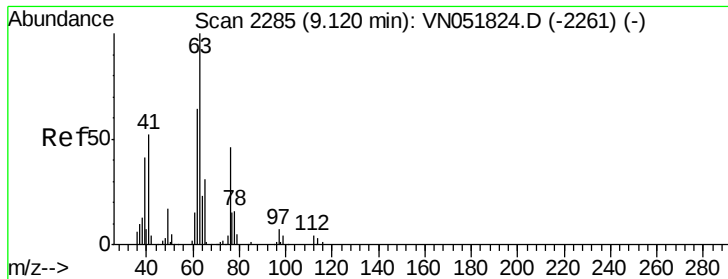
Tot Ion:130 Resp: 225916  
 Ion Ratio Lower Upper  
 130 100  
 95 88.8 76.4 114.6



#38  
 Methylcyclohexane  
 Concen: 17.029 ug/l  
 RT: 9.08 min Scan# 2273  
 Delta R.T. 0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Tgt Ion: 83 Resp: 267288  
 Ion Ratio Lower Upper  
 83 100  
 55 60.7 43.0 129.2  
 98 49.9 21.3 63.7

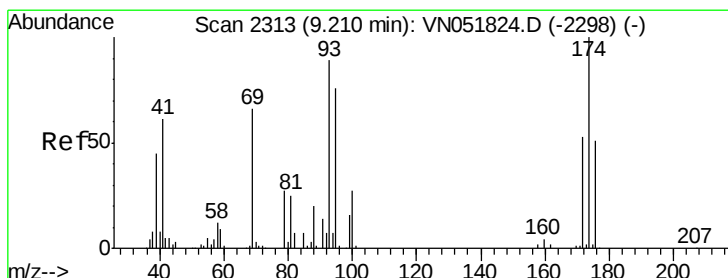
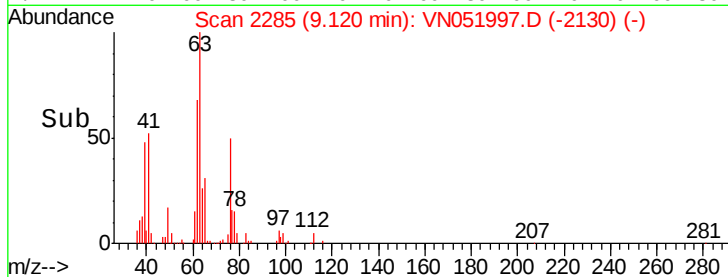
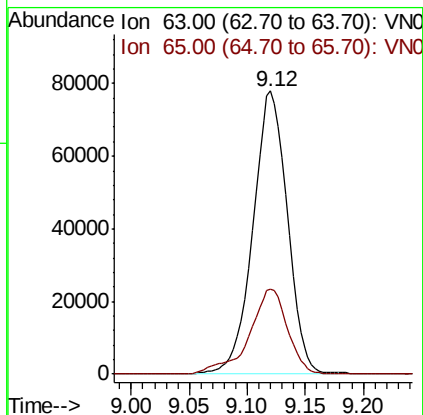
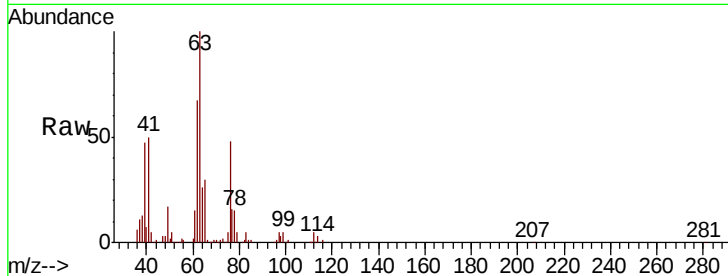




#39  
 1,2-Dichloropropane  
 Concen: 18.954 ug/l  
 RT: 9.12 min Scan# 2285  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

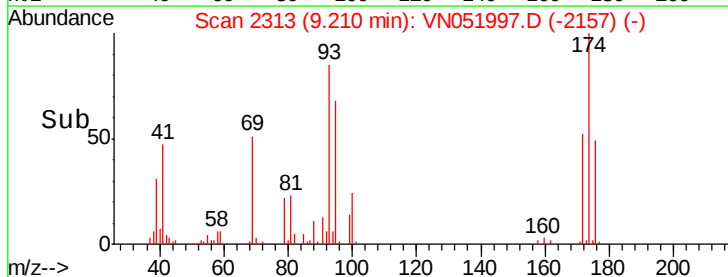
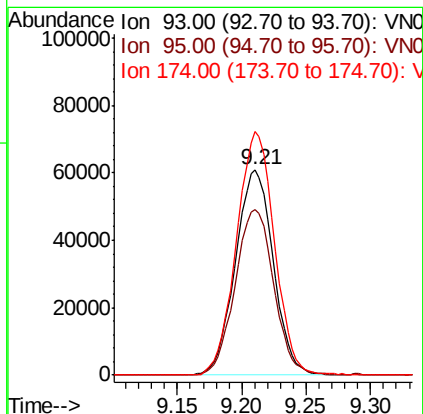
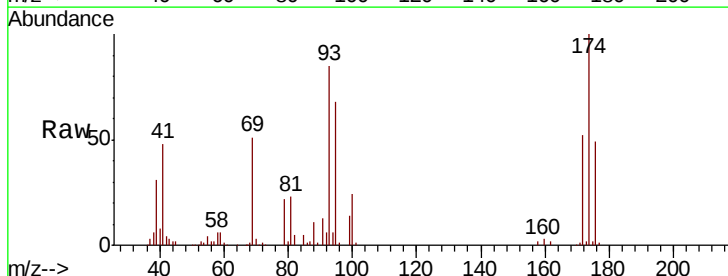
Instrument :  
 MSVOA\_N  
 ClientSampled :

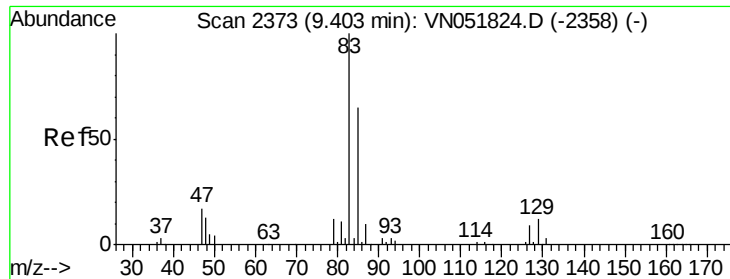
Tot Ion: 63 Resp: 161580  
 Ion Ratio Lower Upper  
 63 100  
 65 30.2 23.2 34.8



#40  
 Dibromomethane  
 Concen: 19.772 ug/l  
 RT: 9.21 min Scan# 2313  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Tgt Ion: 93 Resp: 125099  
 Ion Ratio Lower Upper  
 93 100  
 95 82.1 0.0 162.0  
 174 118.1 0.0 214.0





#41

Bromodichloromethane

Concen: 17.786 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

ClientSampleId :

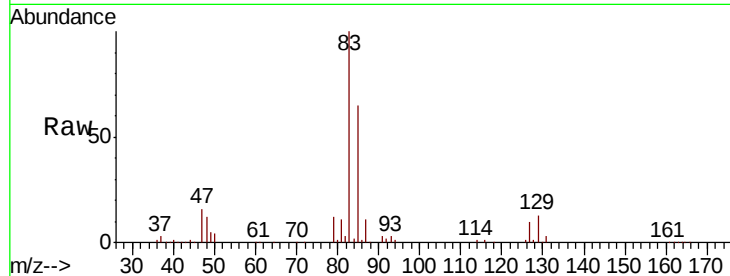
Tot Ion: 83 Resp: 232438

Ion Ratio Lower Upper

83 100

85 64.7 55.7 83.5

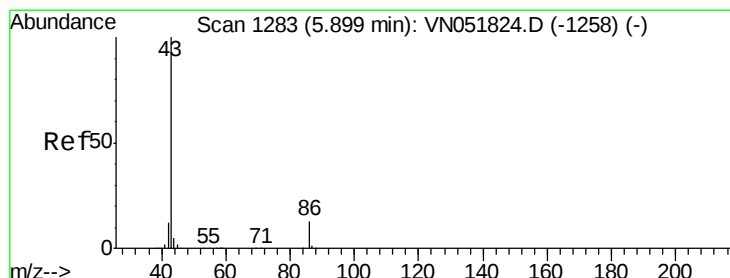
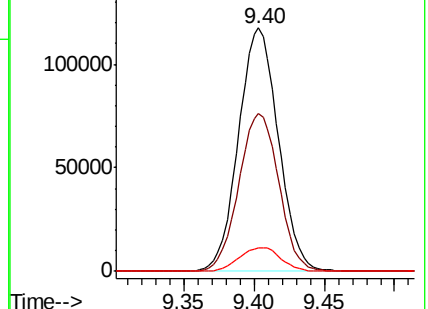
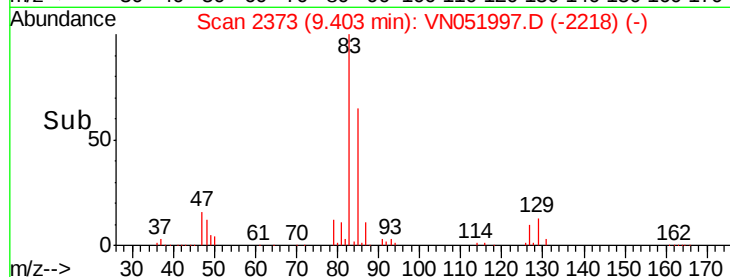
127 11.0 8.2 12.4



Abundance Ion 83.00 (82.70 to 83.70): VN051997.D (-1128) (-)

Ion 85.00 (84.70 to 85.70): VN051997.D (-1128) (-)

Ion 127.00 (126.70 to 127.70): VN051997.D (-1128) (-)



#42

Vinyl Acetate

Concen: 82.804 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN051997.D

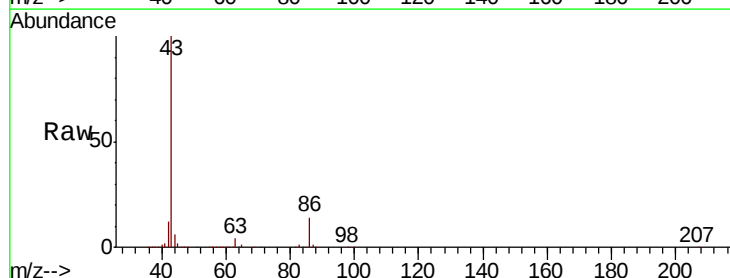
Acq: 24 Oct 2018 19:20

Tgt Ion: 43 Resp: 1192272

Ion Ratio Lower Upper

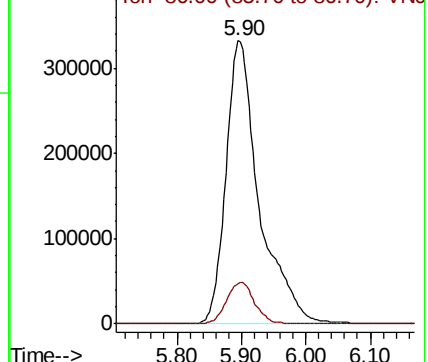
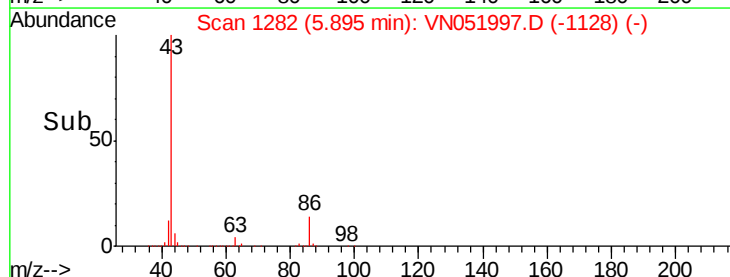
43 100

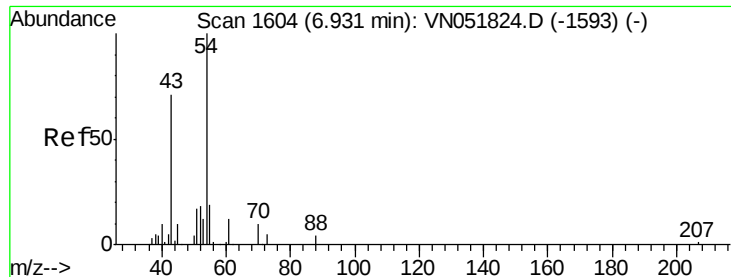
86 12.3 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN051997.D (-1128) (-)

Ion 86.00 (85.70 to 86.70): VN051997.D (-1128) (-)

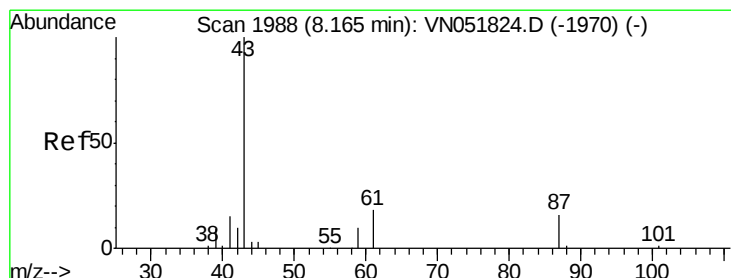
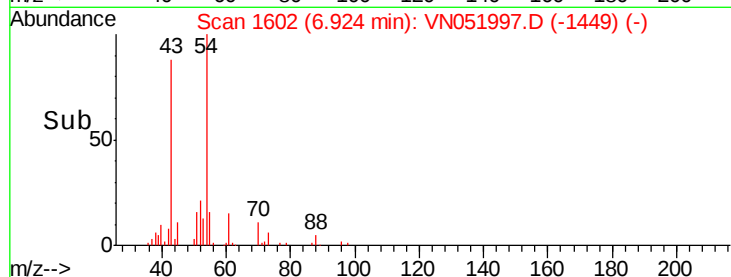
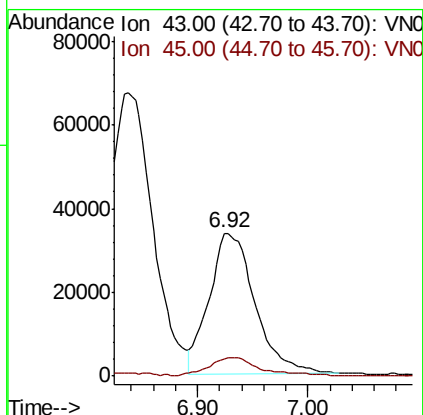
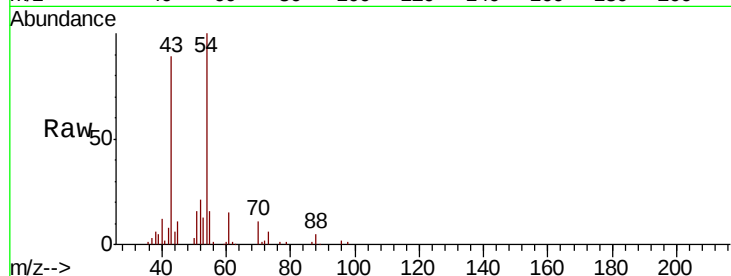




#43  
Ethyl Acetate  
Concen: 17.412 ug/l  
RT: 6.92 min Scan# 1602  
Delta R.T. -0.01 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

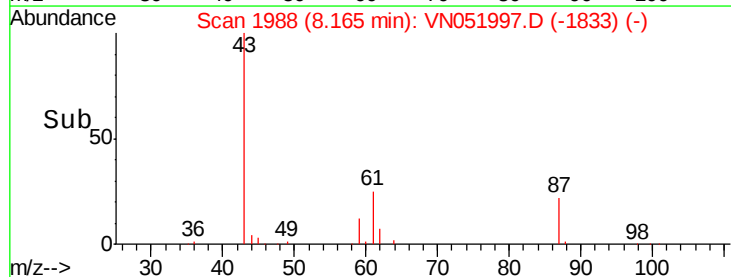
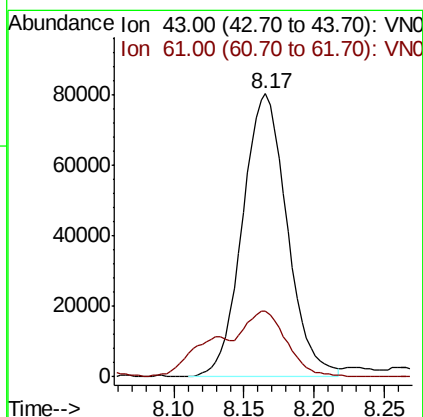
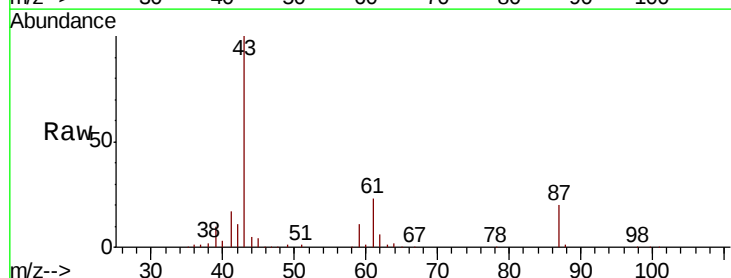
Instrument :  
MSVOA\_N  
ClientSampleId :

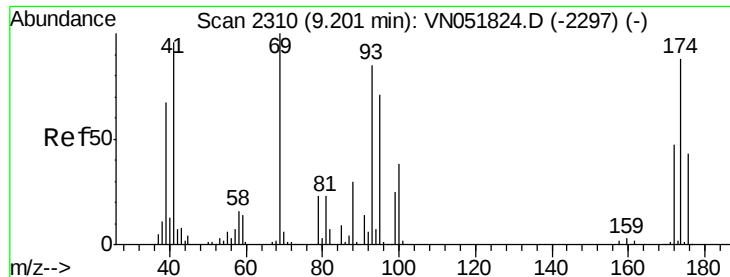
Tot Ion: 43 Resp: 96705  
Ion Ratio Lower Upper  
43 100  
45 12.6 11.0 16.6



#44  
Isopropyl Acetate  
Concen: 15.946 ug/l  
RT: 8.17 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 43 Resp: 176892  
Ion Ratio Lower Upper  
43 100  
61 22.8 15.9 23.9

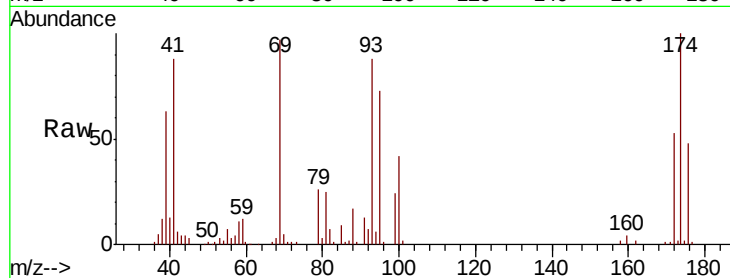




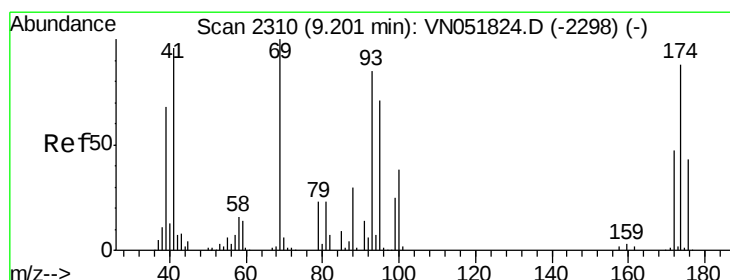
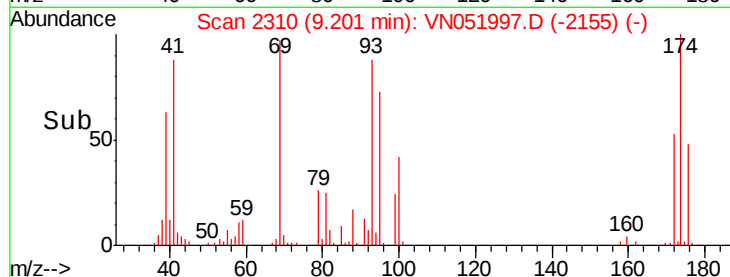
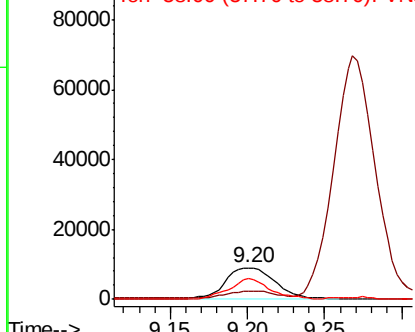
#45  
 1,4-Dioxane  
 Concen: 227.684 ug/l  
 RT: 9.20 min Scan# 2310  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 88 Resp: 20281  
 Ion Ratio Lower Upper  
 88 100  
 43 19.4 26.2 39.2#  
 58 54.1 65.6 98.4#

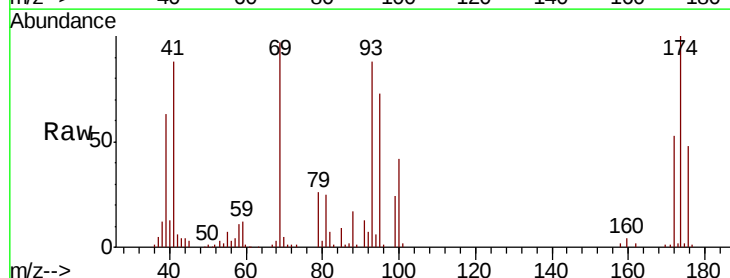


Abundance Ion 88.00 (87.70 to 88.70): VN0  
 Ion 43.00 (42.70 to 43.70): VN0  
 Ion 58.00 (57.70 to 58.70): VN0

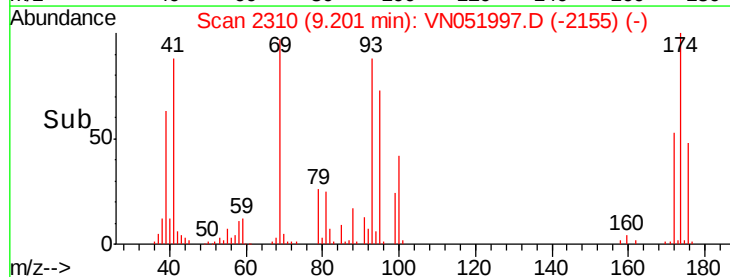
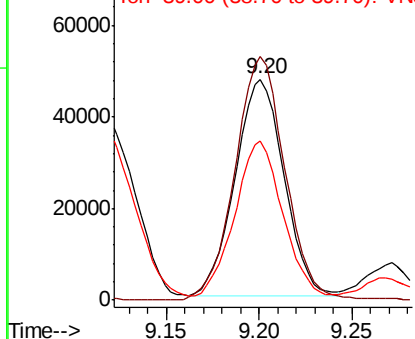


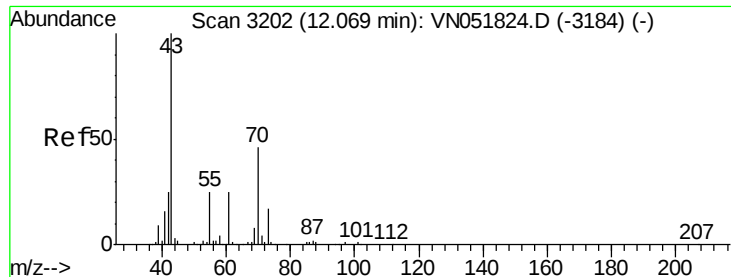
#46  
 Methyl methacrylate  
 Concen: 16.867 ug/l  
 RT: 9.20 min Scan# 2310  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Tgt Ion: 41 Resp: 86308  
 Ion Ratio Lower Upper  
 41 100  
 69 111.2 40.7 122.1  
 39 71.5 27.3 81.9



Abundance Ion 41.00 (40.70 to 41.70): VN0  
 Ion 69.00 (68.70 to 69.70): VN0  
 Ion 39.00 (38.70 to 39.70): VN0

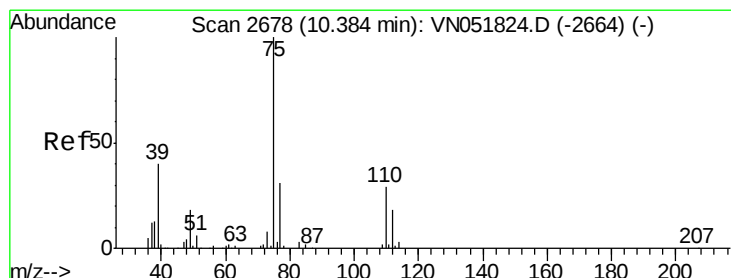
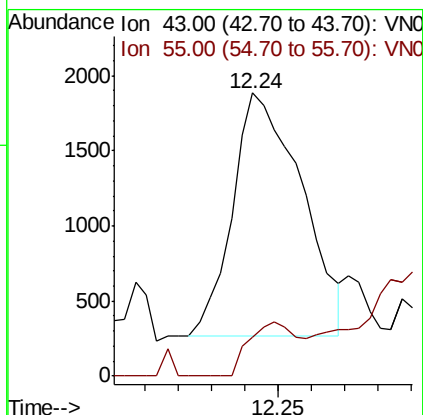
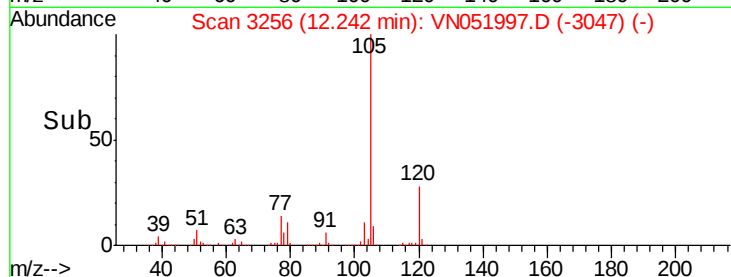
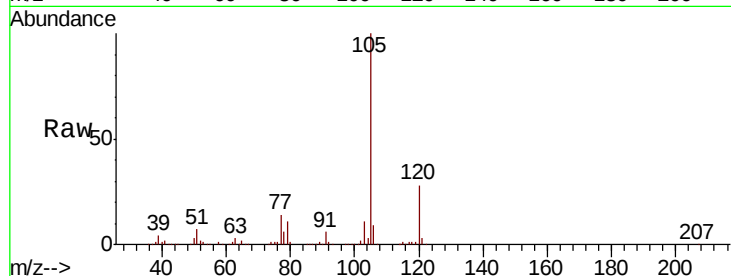




#47  
n-amvl Acetate  
Concen: 0.253 ug/l  
RT: 12.24 min Scan# 3256  
Delta R.T. 0.17 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

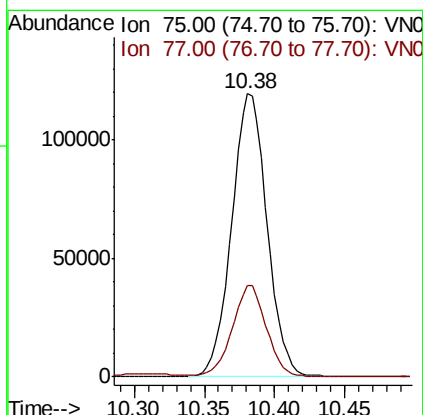
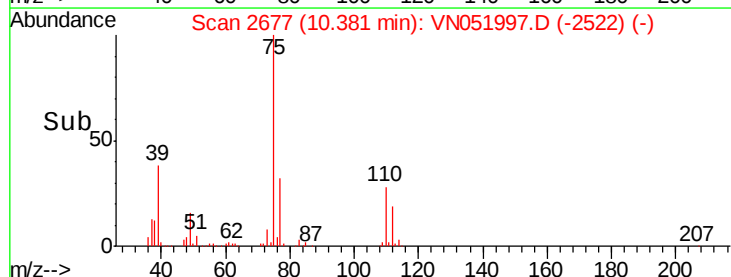
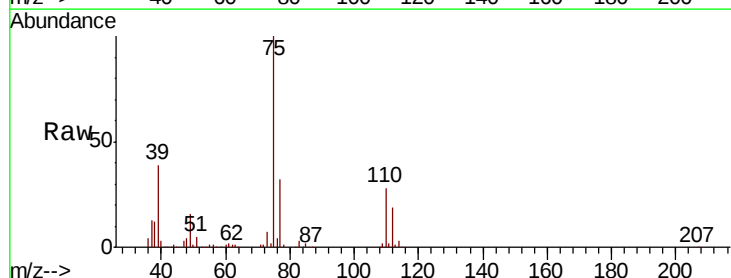
Instrument :  
MSVOA\_N  
ClientSampled :

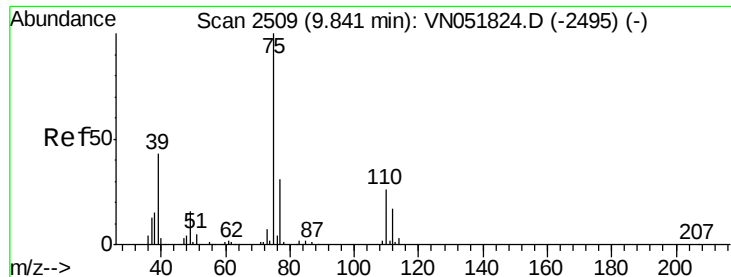
Tot Ion: 43 Resp: 2349  
Ion Ratio Lower Upper  
43 100  
55 16.3 12.2 18.4



#48  
t-1,3-Dichloropropene  
Concen: 16.451 ug/l  
RT: 10.38 min Scan# 2677  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 75 Resp: 209650  
Ion Ratio Lower Upper  
75 100  
77 32.2 24.6 37.0



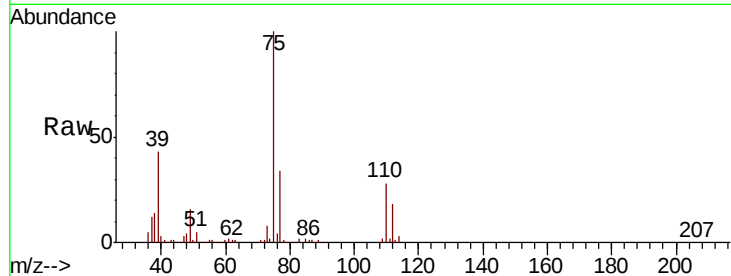


#49

cis-1,3-Dichloropropene  
Concen: 17.235 ug/l  
RT: 9.84 min Scan# 2509  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 33.6  | 23.2  | 34.8  |
| 39      | 42.5  | 34.6  | 52.0  |

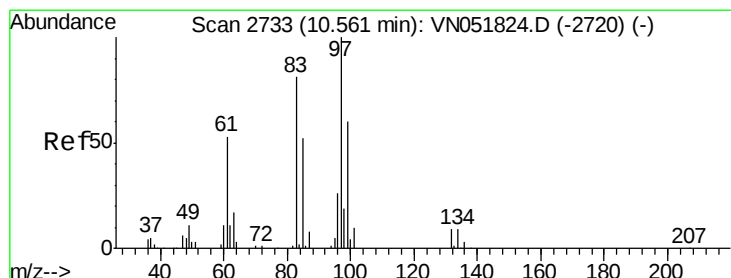
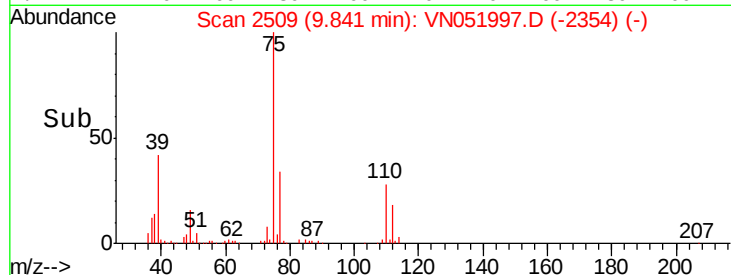
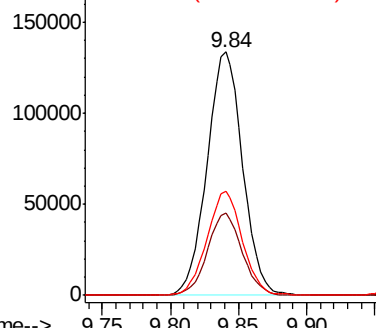


Abundance

Ion 75.00 (74.70 to 75.70): VNO

Ion 77.00 (76.70 to 77.70): VNO

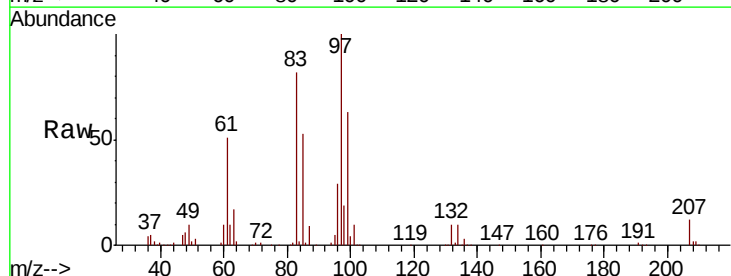
Ion 39.00 (38.70 to 39.70): VNO



#50

1,1,2-Trichloroethane  
Concen: 19.652 ug/l  
RT: 10.56 min Scan# 2733  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 81.5  | 68.2  | 102.4 |
| 85      | 52.7  | 42.5  | 63.7  |
| 99      | 62.6  | 44.3  | 66.5  |



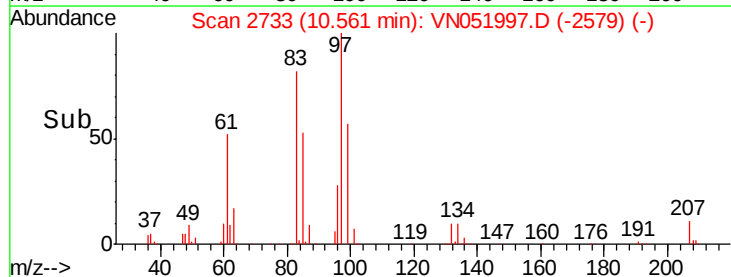
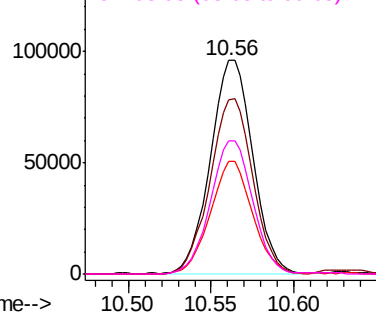
Abundance

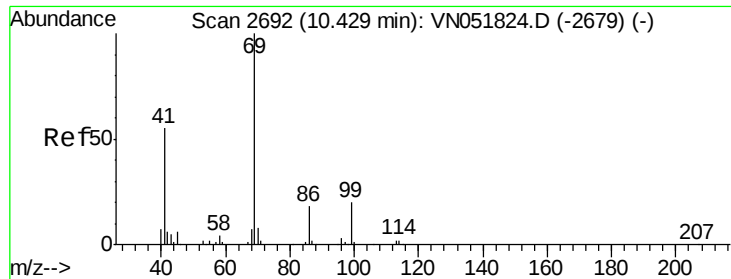
Ion 97.00 (96.70 to 97.70): VNO

Ion 82.95 (82.65 to 83.65): VNO

Ion 84.95 (84.65 to 85.65): VNO

Ion 98.95 (98.65 to 99.65): VNO





#51

Ethyl methacrylate

Concen: 17.717 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

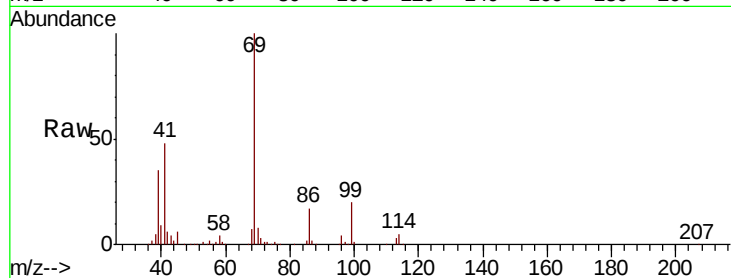
Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 69 Resp: 177317

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 47.3  | 34.4  | 103.1 |
| 39  | 35.0  | 16.3  | 48.8  |

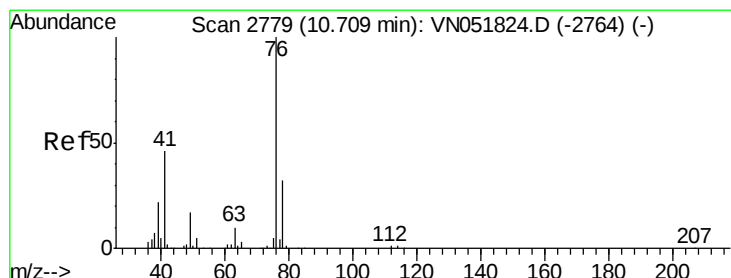
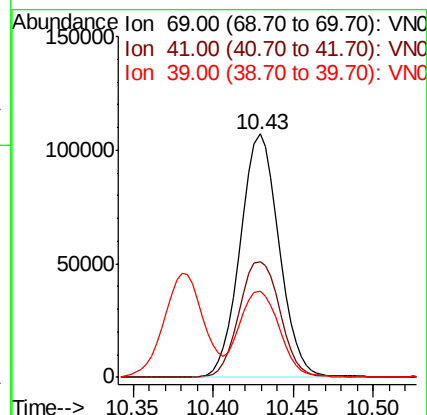
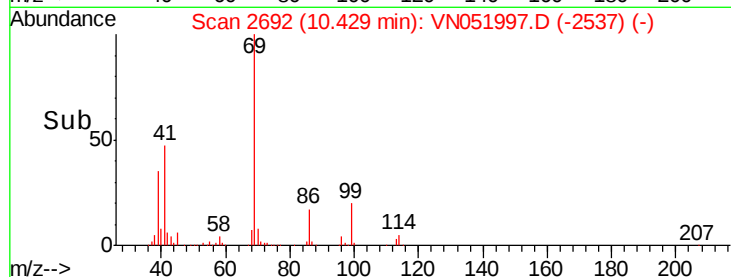


Abundance

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



#52

1,3-Dichloropropane

Concen: 19.134 ug/l

RT: 10.71 min Scan# 2779

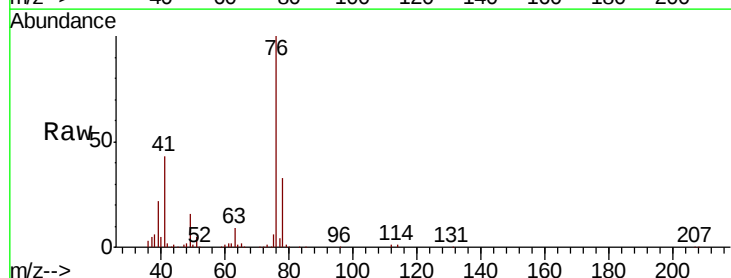
Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Tgt Ion: 76 Resp: 258156

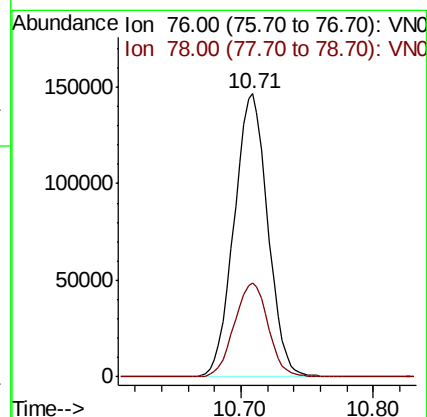
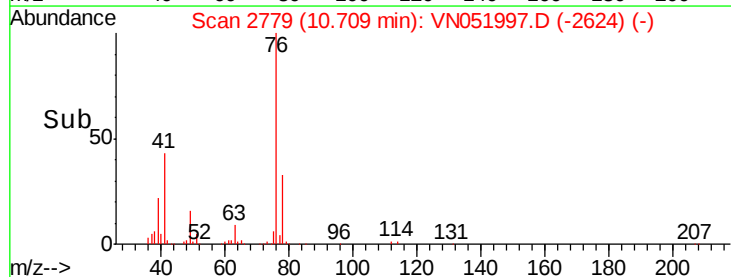
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 33.4  | 0.0   | 67.6  |

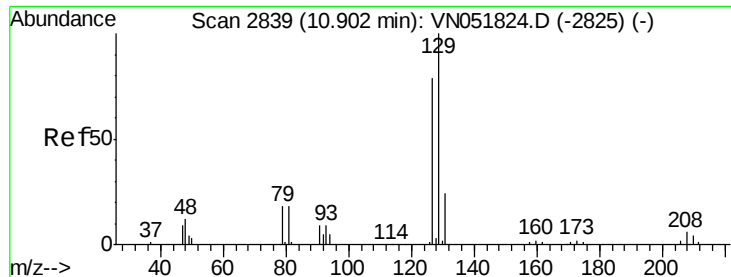


Abundance

Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

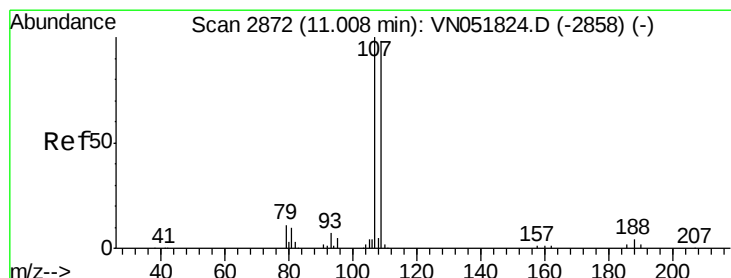
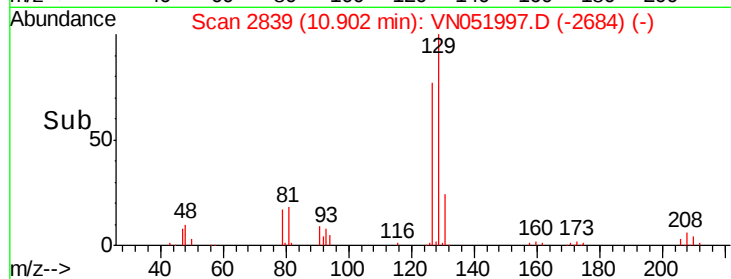
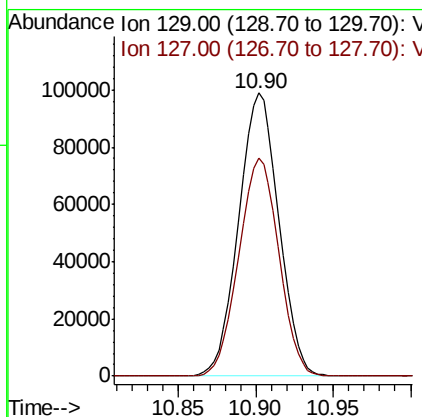
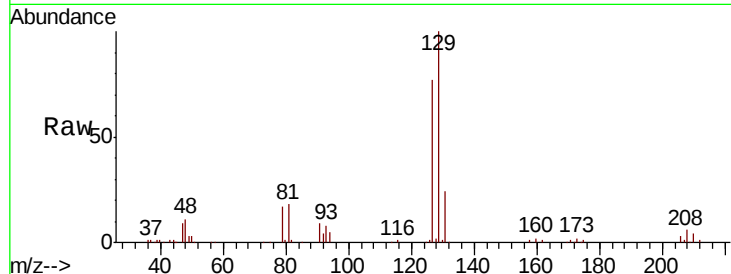




#53  
 Dibromochloromethane  
 Concen: 16.528 ug/l  
 RT: 10.90 min Scan# 2839  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

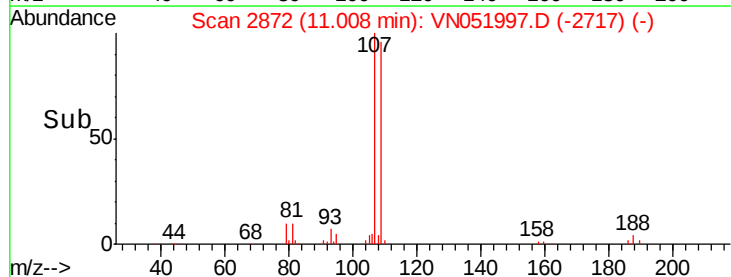
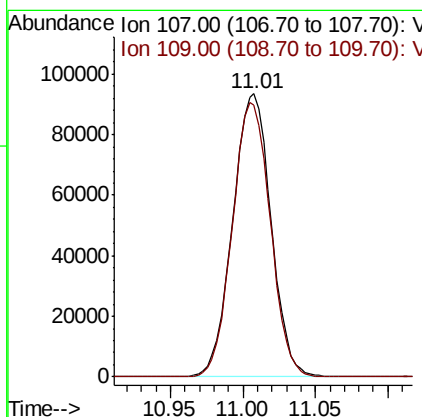
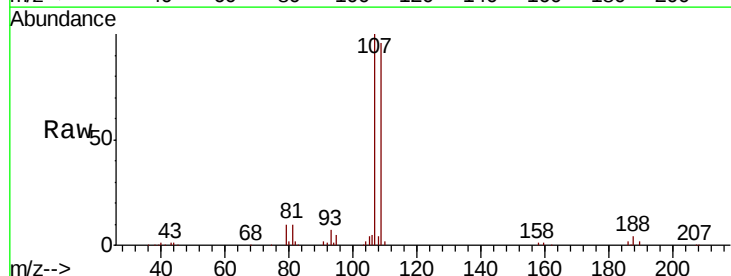
Instrument :  
 MSVOA\_N  
 ClientSampled :

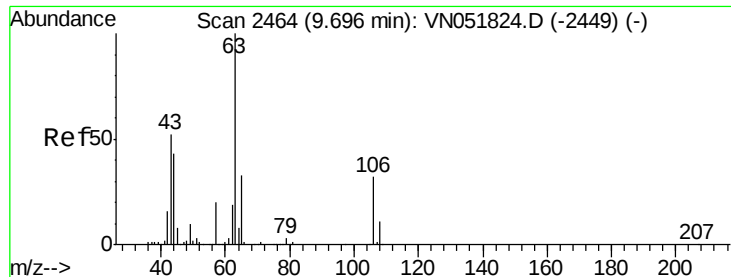
Tot Ion:129 Resp: 178746  
 Ion Ratio Lower Upper  
 129 100  
 127 76.9 40.2 120.5



#54  
 1,2-Dibromoethane  
 Concen: 18.665 ug/l  
 RT: 11.01 min Scan# 2872  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Tgt Ion:107 Resp: 171264  
 Ion Ratio Lower Upper  
 107 100  
 109 96.0 77.4 116.0

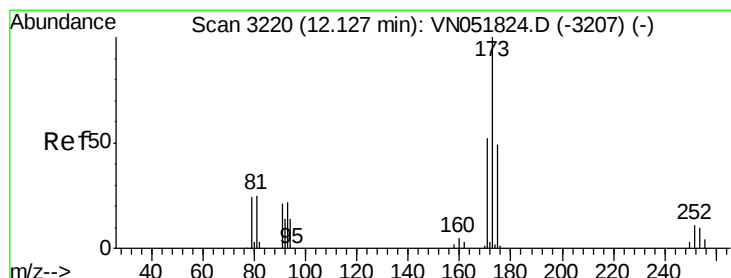
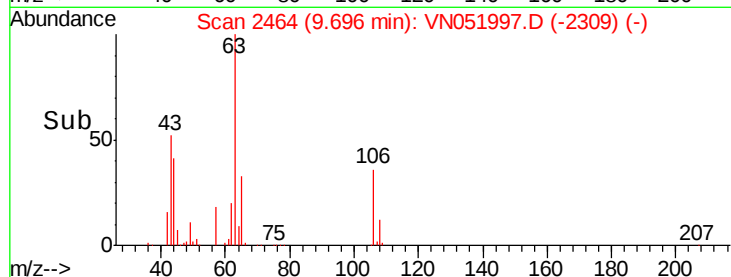
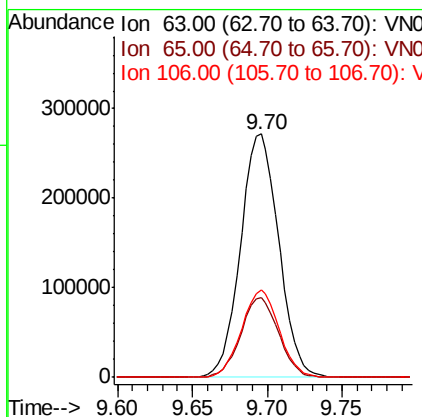
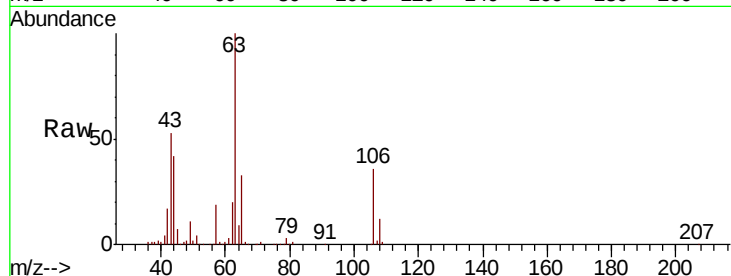




#55  
 2-Chloroethyl vinyl ether  
 Concen: 112.795 ug/l  
 RT: 9.70 min Scan# 2464  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

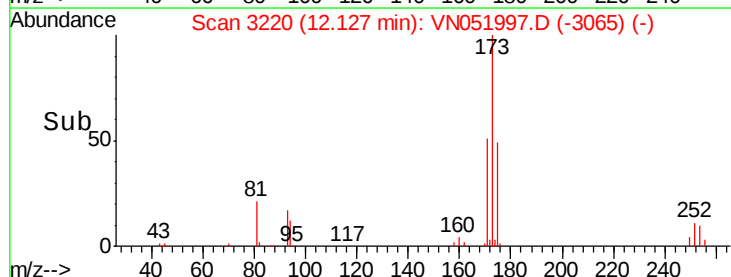
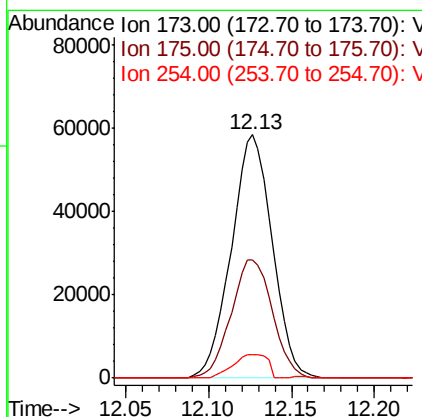
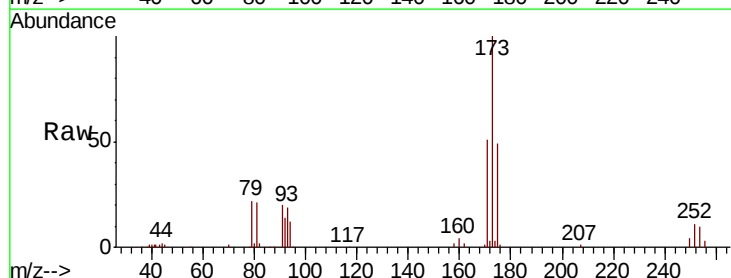
Instrument :  
 MSVOA\_N  
 ClientSampleId :

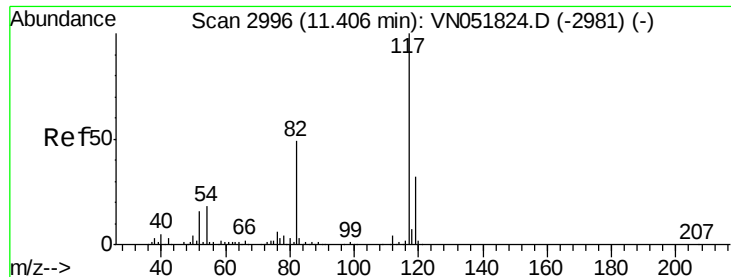
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.5  | 25.4  | 38.0  |
| 106     | 35.3  | 21.2  | 31.8# |



#56  
 Bromoform  
 Concen: 14.039 ug/l  
 RT: 12.13 min Scan# 3220  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.1  | 35.8  | 53.8  |
| 254     | 8.1   | 8.6   | 13.0# |

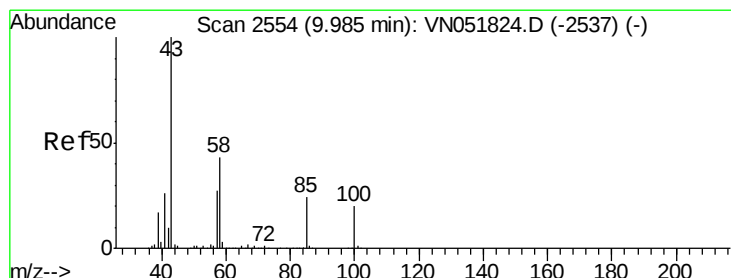
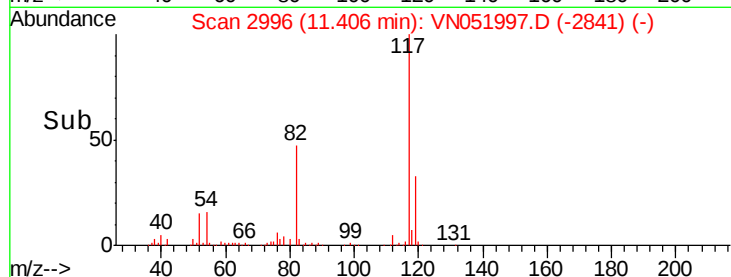
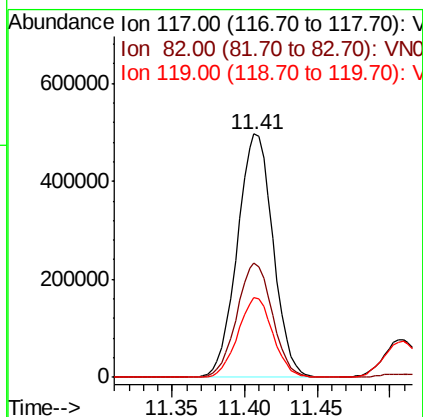
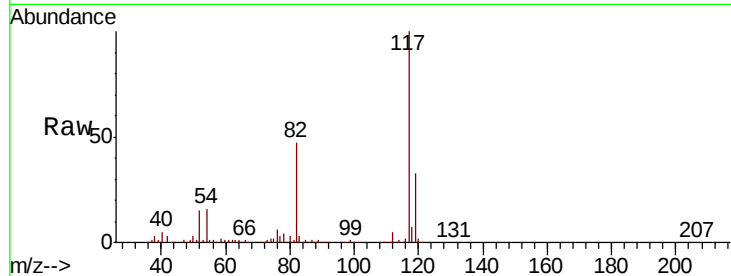




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

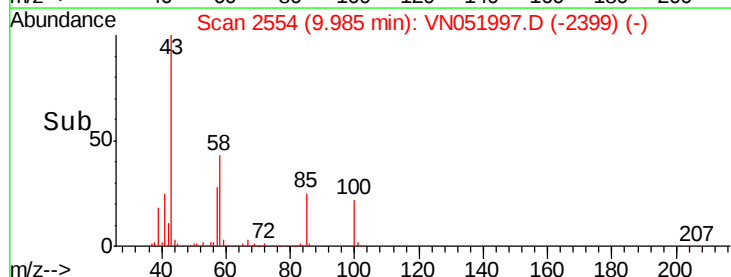
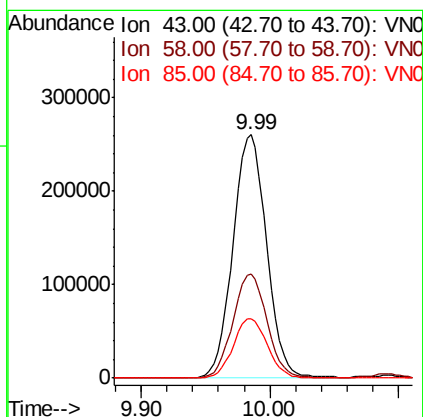
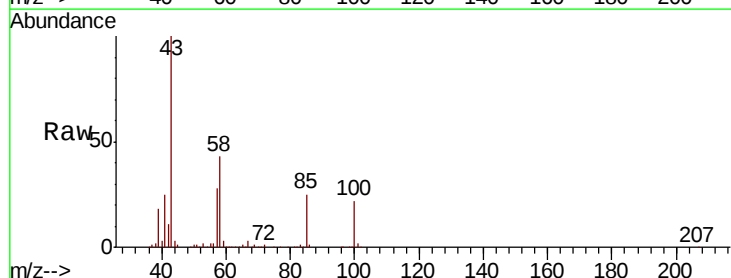
Instrument :  
MSVOA\_N  
ClientSampleId :

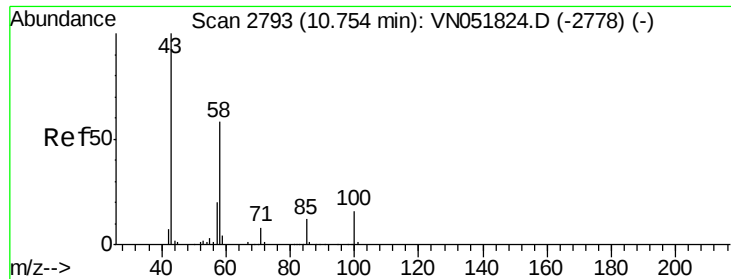
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 46.9  | 44.1  | 66.1  |
| 119     | 32.1  | 25.8  | 38.8  |



#58  
4-Methyl-2-Pentanone  
Concen: 82.713 ug/l  
RT: 9.99 min Scan# 2554  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 43.3  | 29.3  | 43.9  |
| 85      | 24.9  | 12.6  | 18.8  |

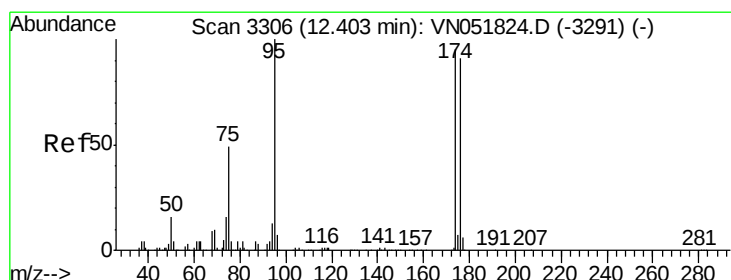
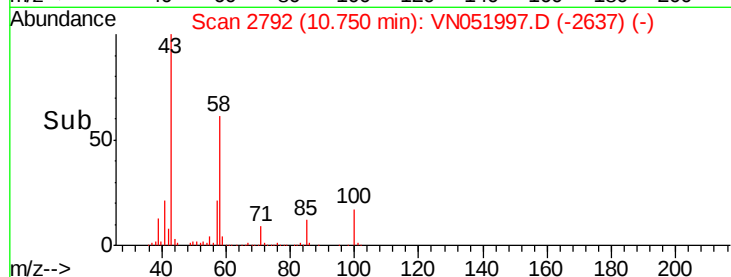
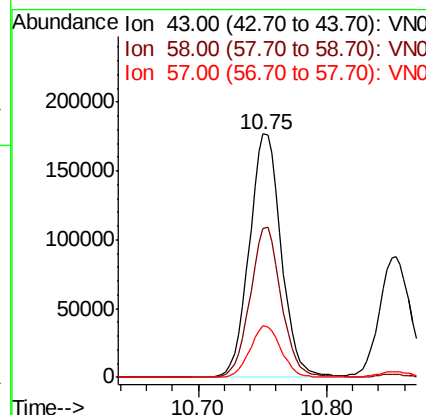
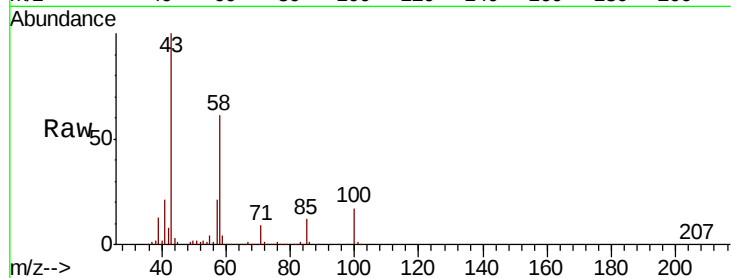




#59  
2-Hexanone  
Concen: 79.534 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

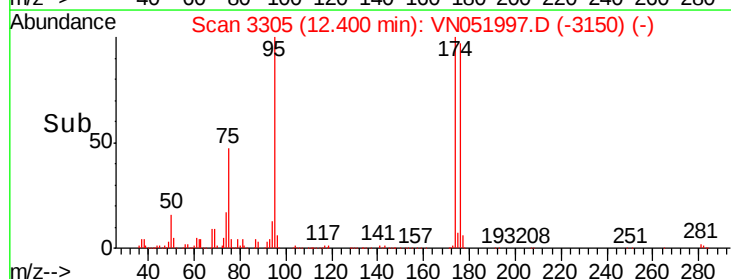
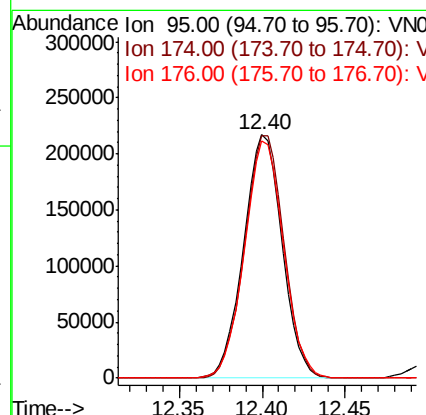
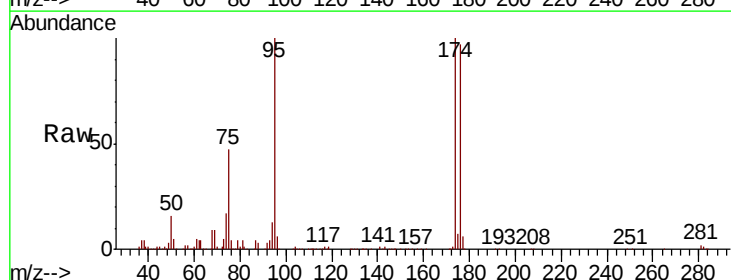
Instrument :  
MSVOA\_N  
ClientSampleId :

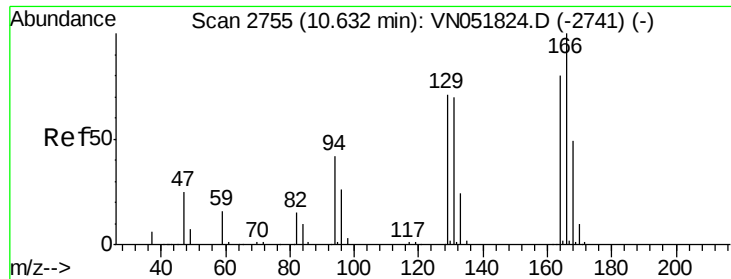
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 59.9  | 41.3  | 61.9  |
| 57      | 20.5  | 13.4  | 20.0  |



#60  
4-Bromofluorobenzene  
Concen: 79.534 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 101.6 | 73.5  | 110.3 |
| 176     | 98.8  | 70.2  | 105.2 |





#61

Tetrachloroethene

Concen: 18.967 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion:164 Resp: 206661

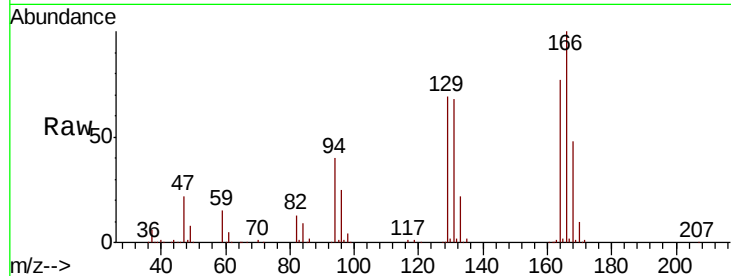
Ion Ratio Lower Upper

164 100

166 129.7 98.7 148.1

129 89.3 69.6 104.4

131 88.3 72.4 108.6

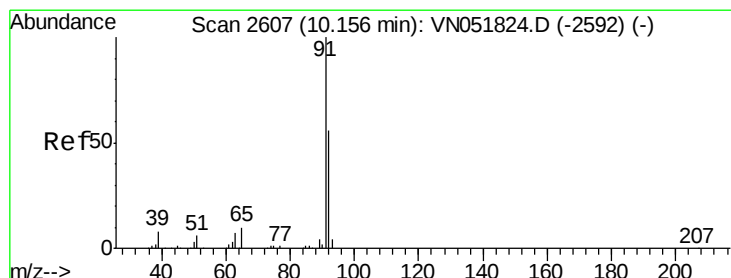
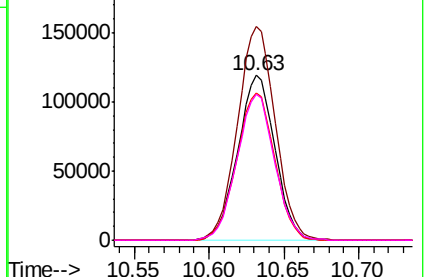
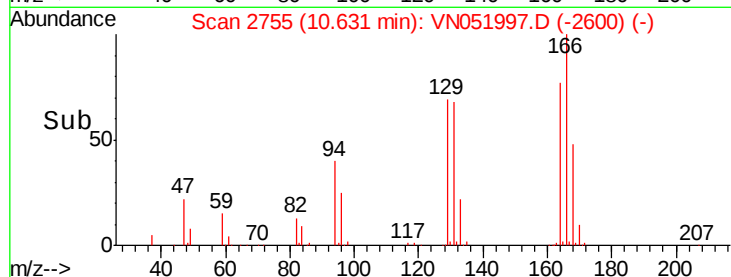


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 19.778 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051997.D

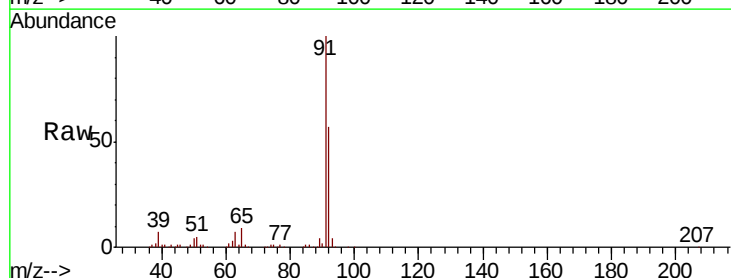
Acq: 24 Oct 2018 19:20

Tgt Ion: 91 Resp: 837140

Ion Ratio Lower Upper

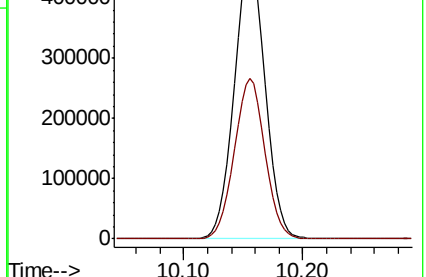
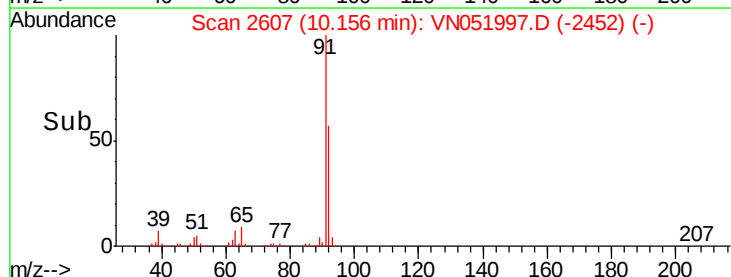
91 100

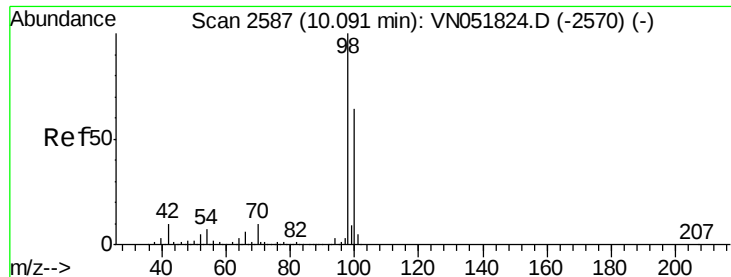
92 56.7 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 19.778 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

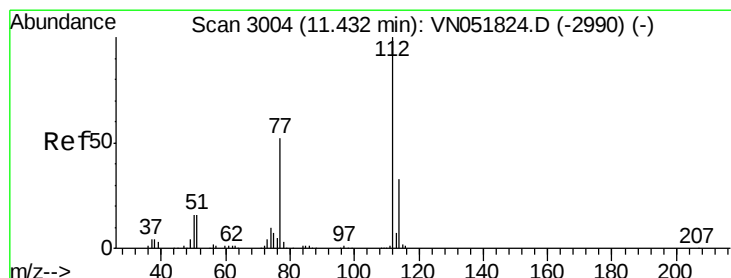
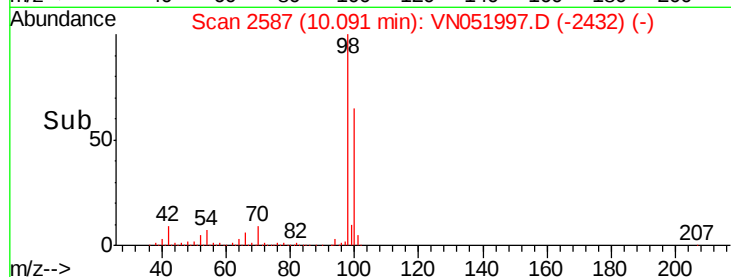
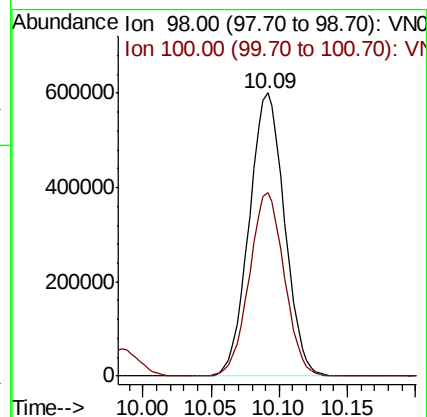
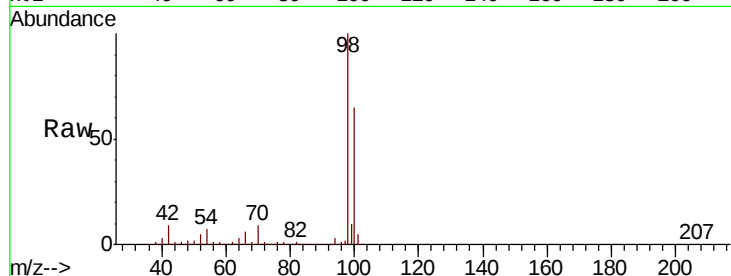
ClientSampleId :

Tot Ion: 98 Resp: 1082602

Ion Ratio Lower Upper

98 100

100 64.2 50.8 76.2



#64

Chlorobenzene

Concen: 20.197 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051997.D

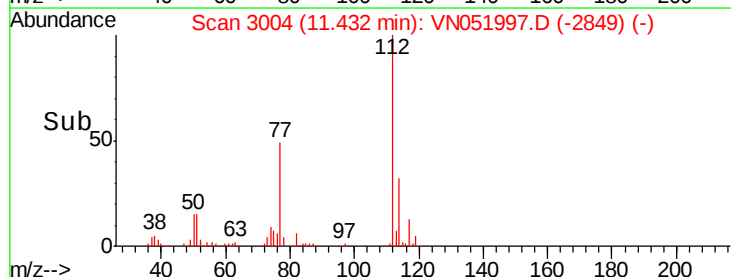
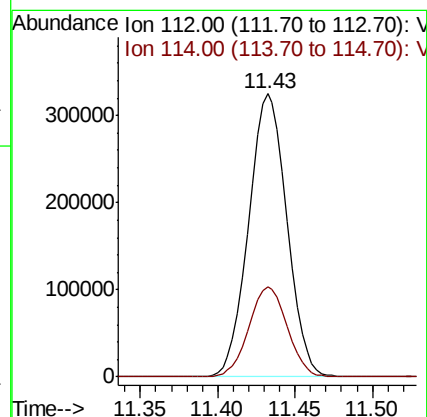
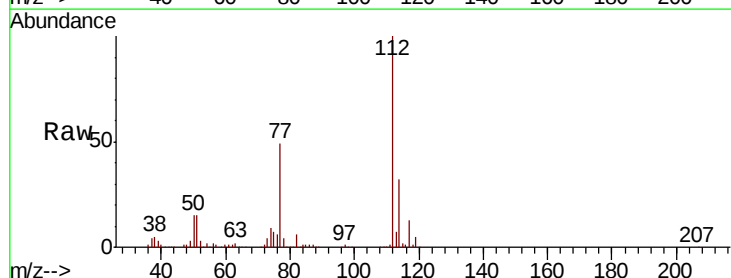
Acq: 24 Oct 2018 19:20

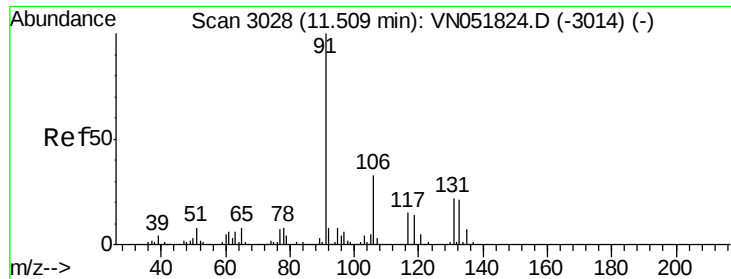
Tgt Ion: 112 Resp: 559872

Ion Ratio Lower Upper

112 100

114 31.8 27.5 41.3





#65

1,1,1,2-Tetrachloroethane

Concen: 18.737 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

ClientSampleId :

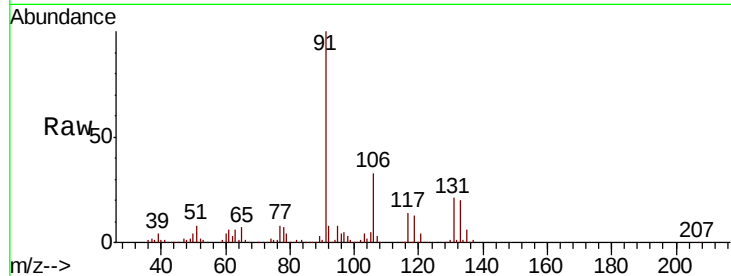
Tot Ion:131 Resp: 199361

Ion Ratio Lower Upper

131 100

133 95.4 0.0 190.4

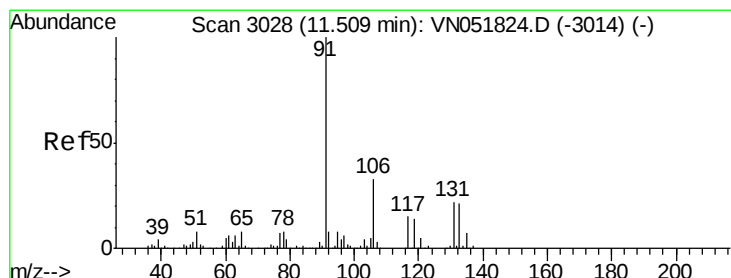
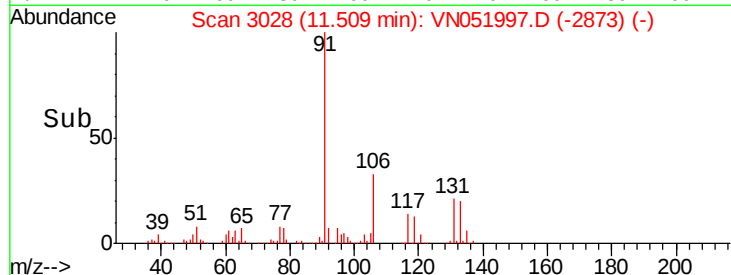
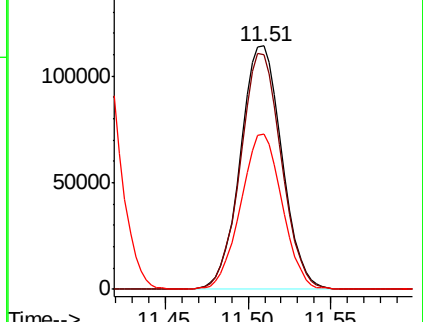
119 63.5 0.0 128.0



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 18.820 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051997.D

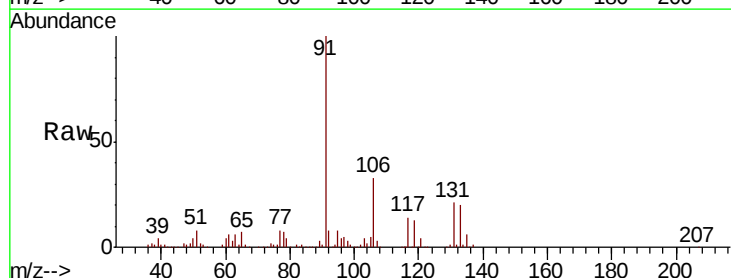
Acq: 24 Oct 2018 19:20

Tgt Ion: 91 Resp: 880403

Ion Ratio Lower Upper

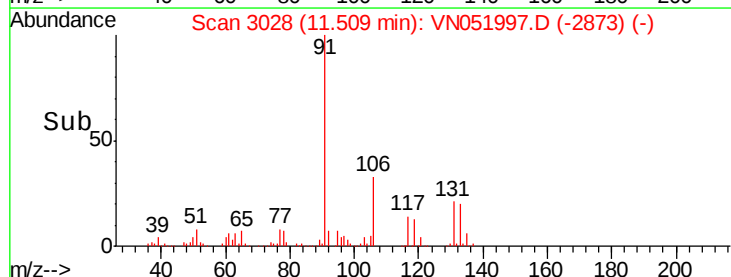
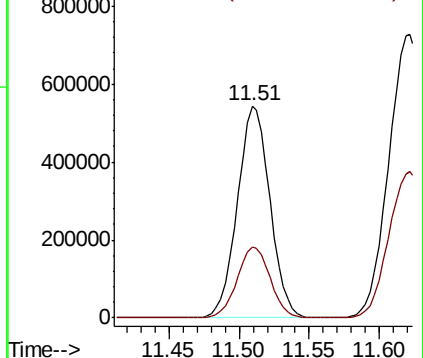
91 100

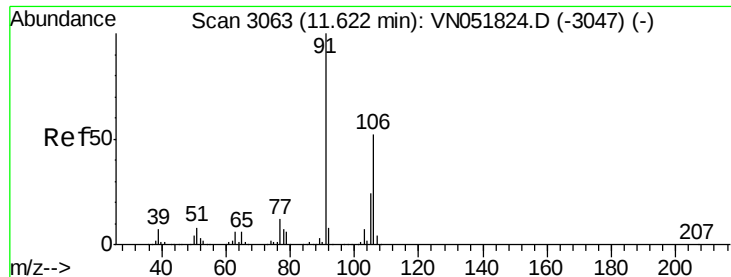
106 33.5 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

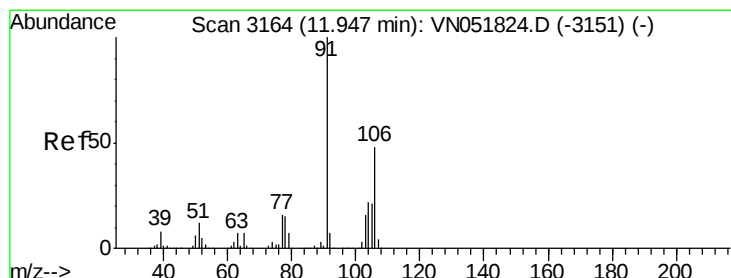
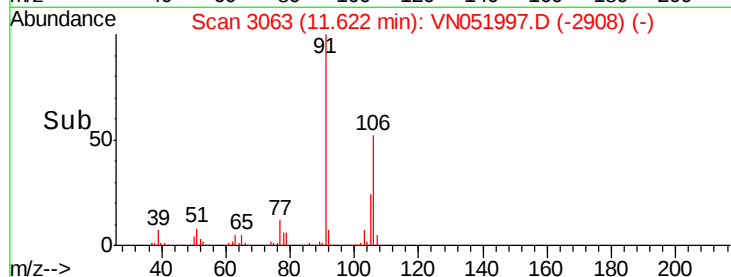
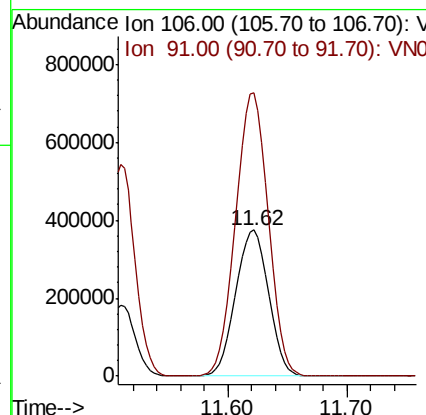
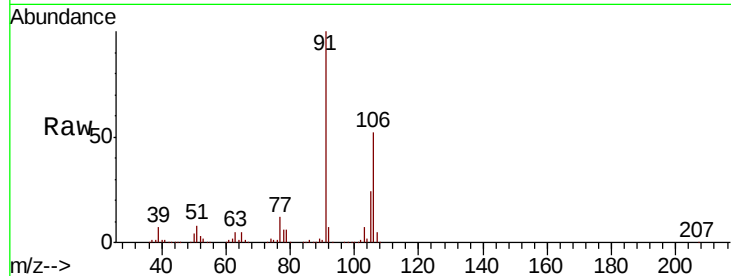




#67  
m/p-Xylenes  
Concen: 38.059 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

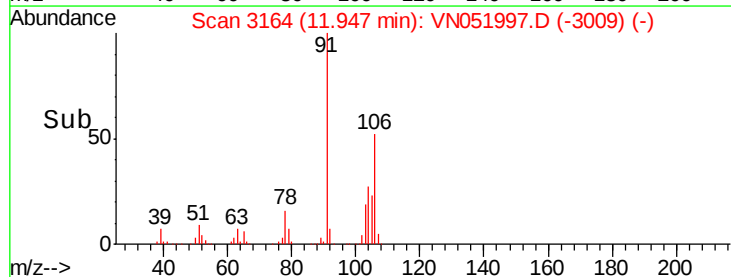
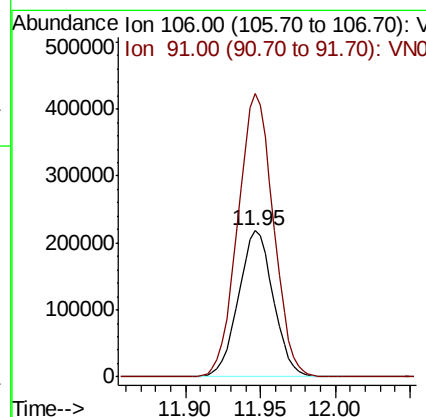
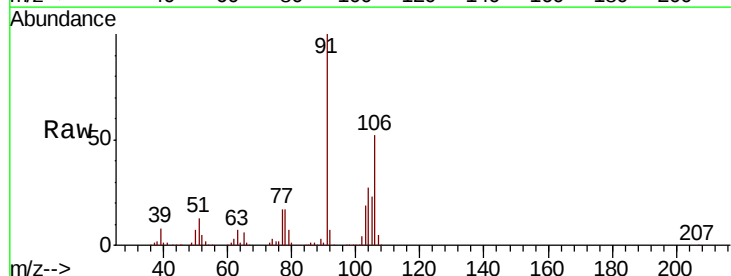
Instrument :  
MSVOA\_N  
ClientSampled :

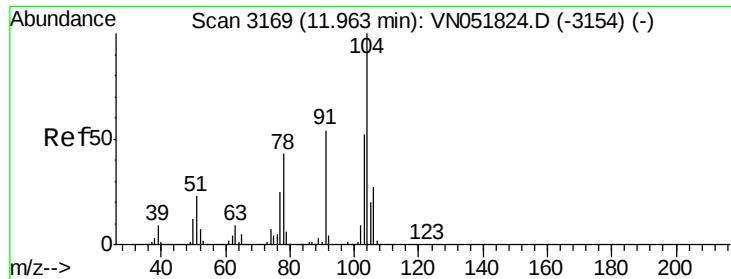
Tot Ion:106 Resp: 721810  
Ion Ratio Lower Upper  
106 100  
91 191.8 158.8 238.2



#68  
o-Xylene  
Concen: 18.967 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion:106 Resp: 354616  
Ion Ratio Lower Upper  
106 100  
91 197.5 111.1 333.3

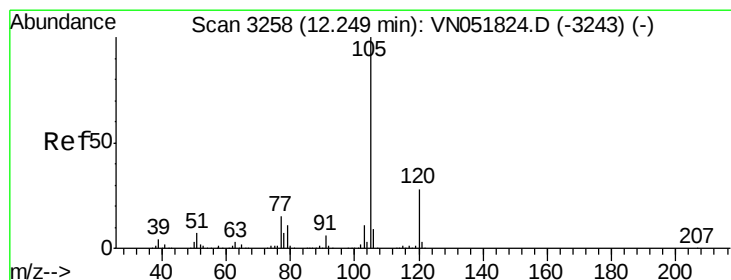
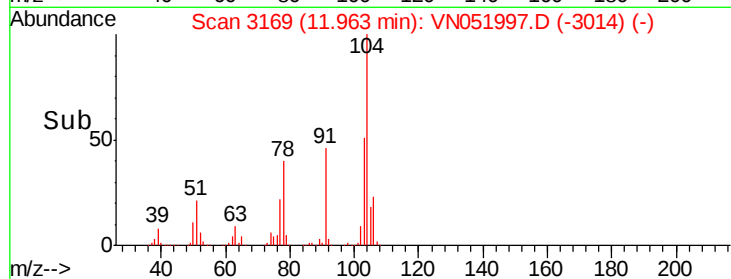
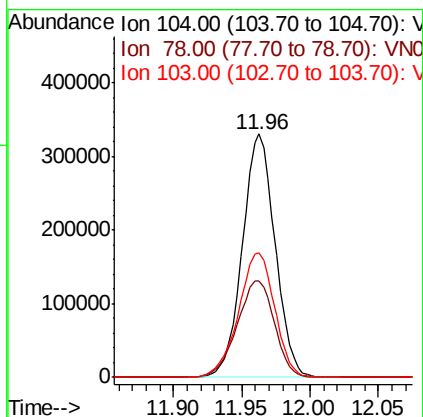
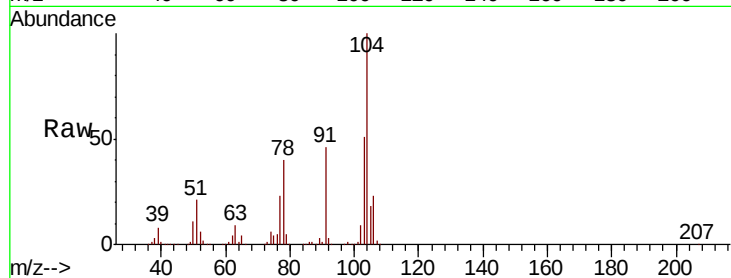




#69  
Stvrene  
Concen: 19.159 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

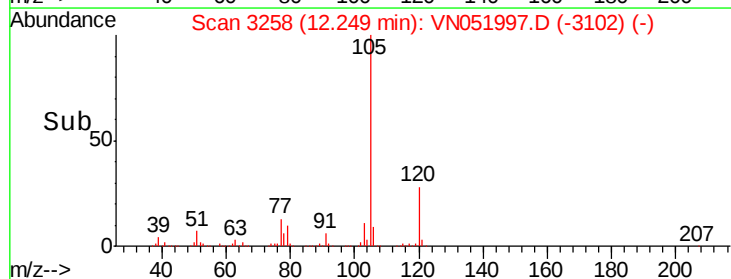
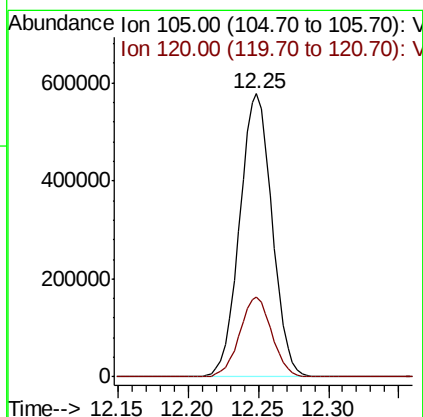
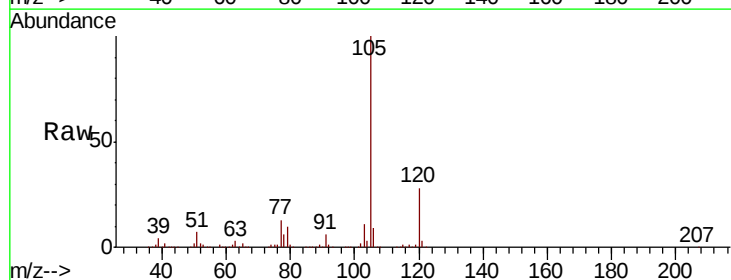
Instrument :  
MSVOA\_N  
ClientSampled :

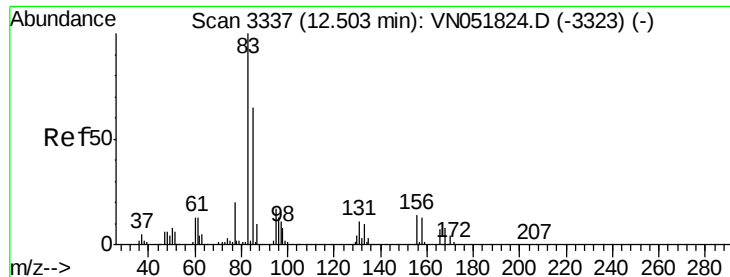
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 45.3  | 40.6  | 60.8  |
| 103     | 56.5  | 44.0  | 66.0  |



#70  
Isopropylbenzene  
Concen: 18.646 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 28.0  | 19.0  | 35.4  |

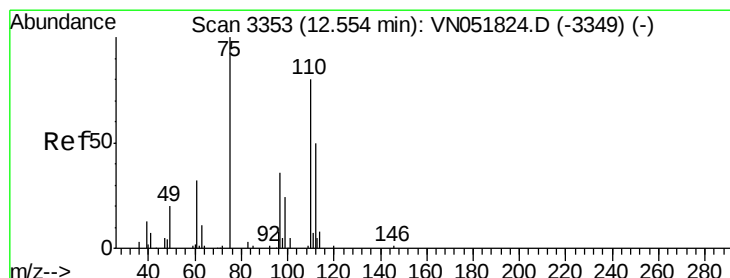
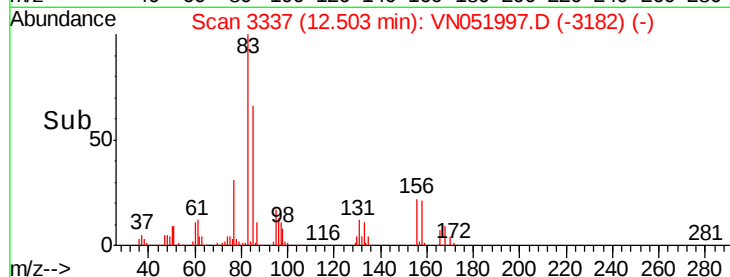
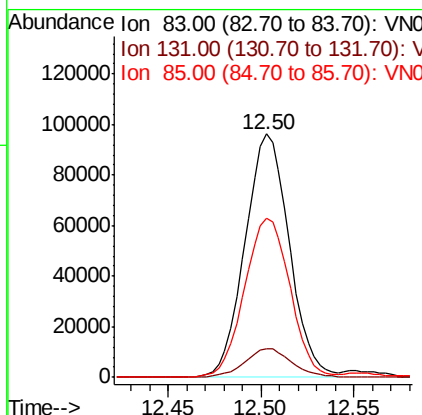
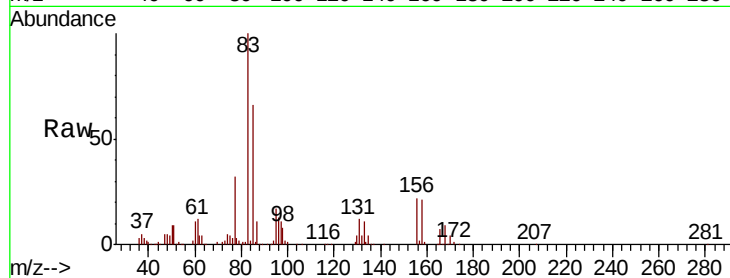




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 16.193 ug/l  
 RT: 12.50 min Scan# 3337  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

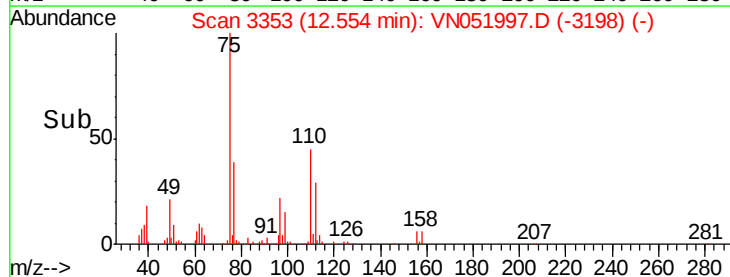
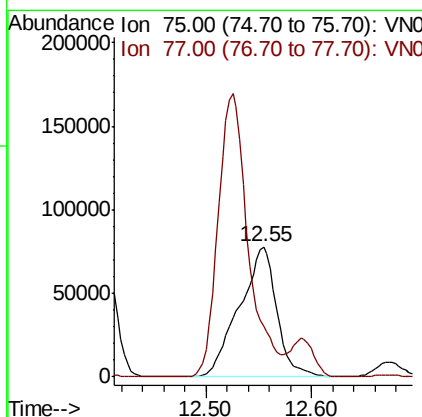
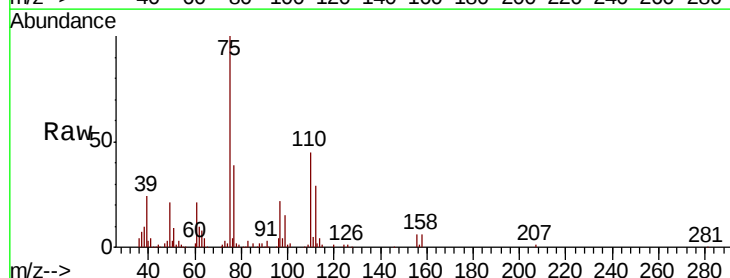
Instrument :  
 MSVOA\_N  
 ClientSampleId :

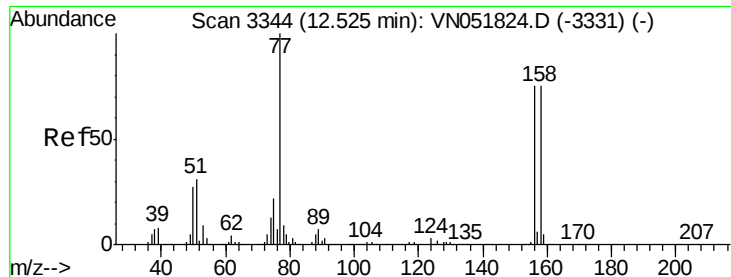
Tot Ion: 83 Resp: 159439  
 Ion Ratio Lower Upper  
 83 100  
 131 12.6 5.5 16.4  
 85 67.4 30.6 91.8



#72  
 1,2,3-Trichloropropane  
 Concen: 24.796 ug/l  
 RT: 12.55 min Scan# 3353  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Tgt Ion: 75 Resp: 192069  
 Ion Ratio Lower Upper  
 75 100  
 77 174.4 0.0 400.0





#73

Bromobenzene

Concen: 19.913 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

ClientSampled :

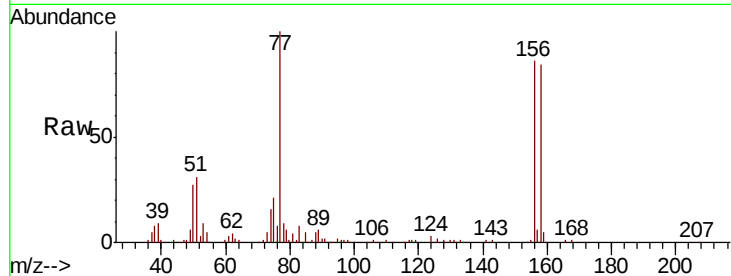
Tot Ion:156 Resp: 245917

Ion Ratio Lower Upper

156 100

77 136.2 0.0 377.4

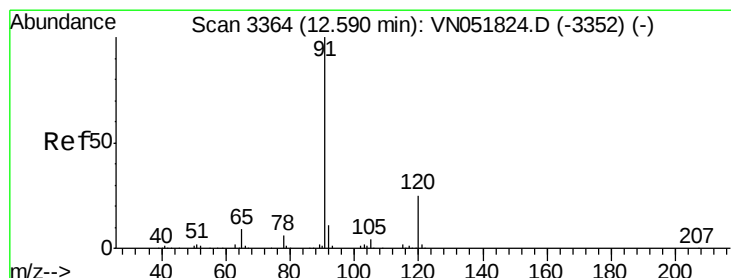
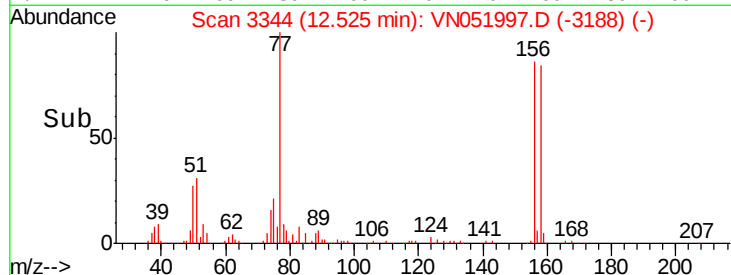
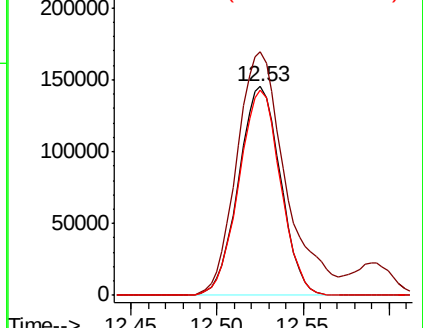
158 97.7 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 18.347 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN051997.D

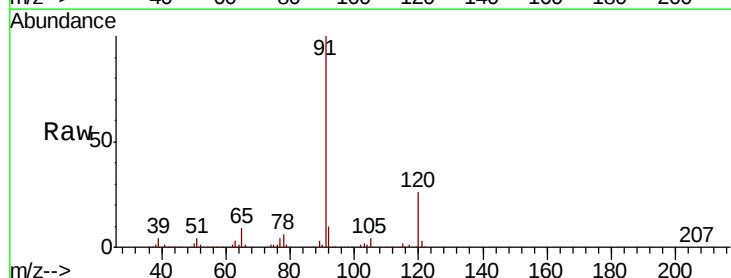
Acq: 24 Oct 2018 19:20

Tgt Ion: 91 Resp: 983930

Ion Ratio Lower Upper

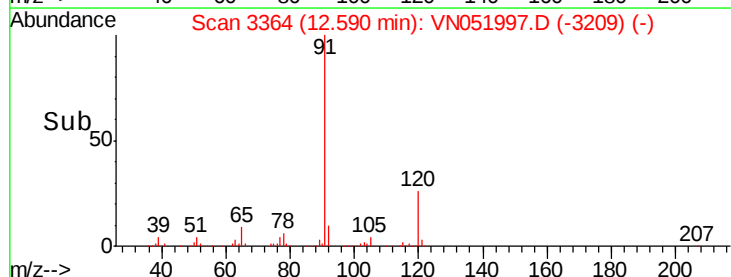
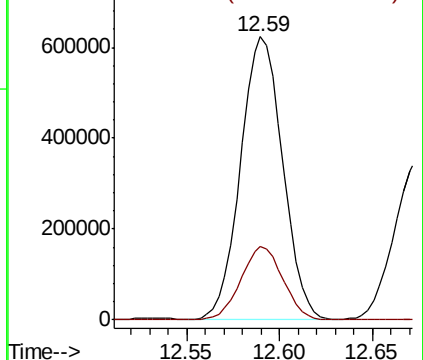
91 100

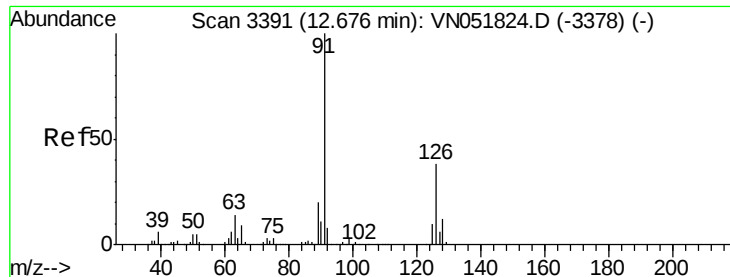
120 25.8 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 18.290 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

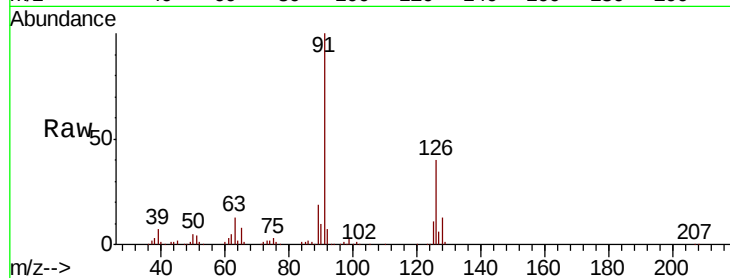
ClientSampleId :

Tot Ion: 91 Resp: 575060

Ion Ratio Lower Upper

91 100

126 40.2 0.0 67.6



Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN051824.D (-3378) (-)

600000

400000

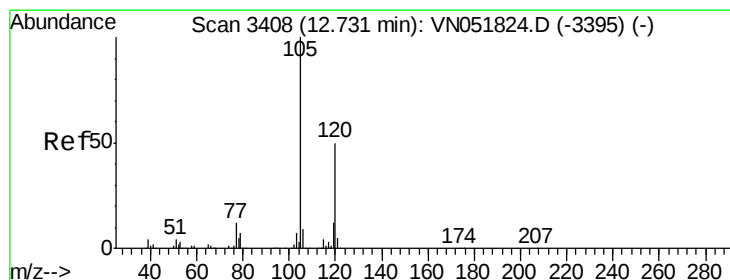
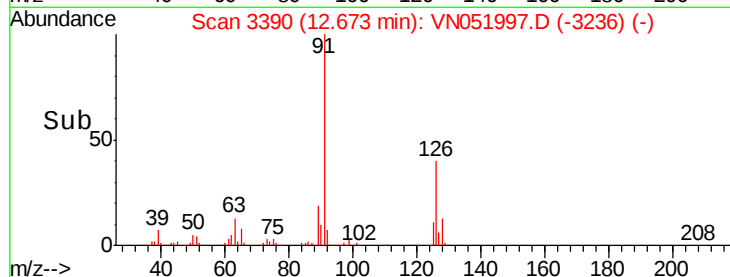
200000

0

12.60 12.65 12.70

12.67

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 17.855 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051997.D

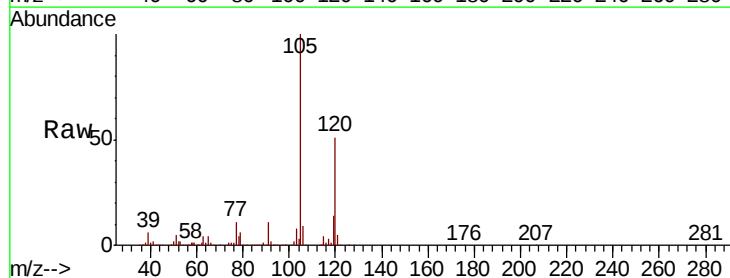
Acq: 24 Oct 2018 19:20

Tgt Ion:105 Resp: 736142

Ion Ratio Lower Upper

105 100

120 51.2 0.0 98.2



Abundance Ion 105.00 (104.70 to 105.70): VN051824.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN051824.D (-3395) (-)

500000

400000

300000

200000

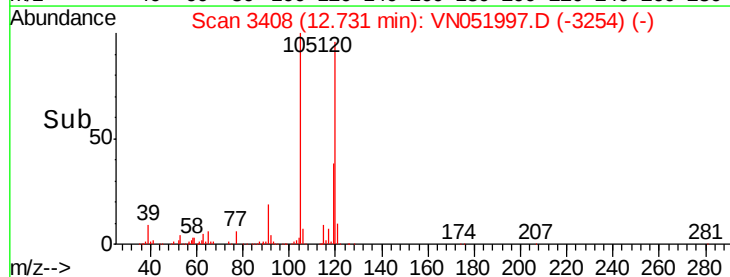
100000

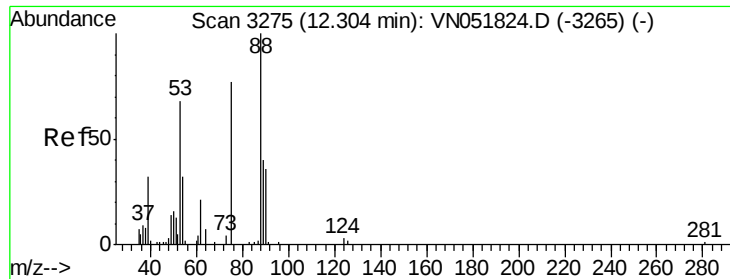
0

12.65 12.70 12.75 12.80

12.73

Time-->

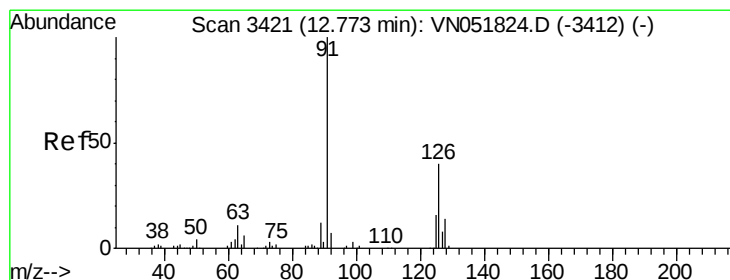
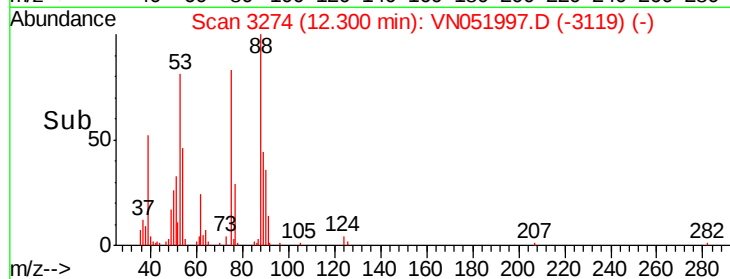
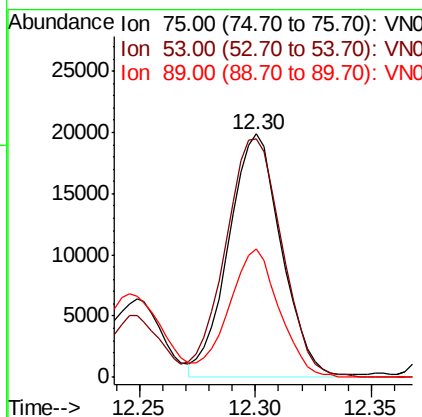
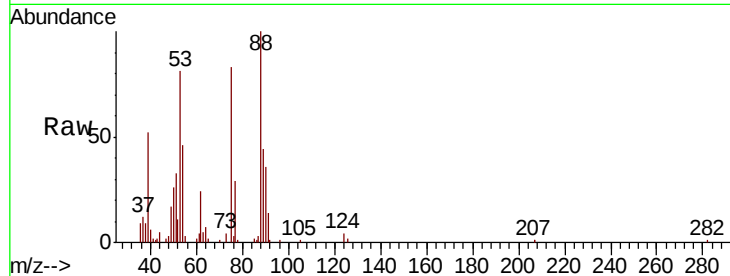




#77  
t-1,4-Dichloro-2-butene  
Concen: 12.294 ug/l  
RT: 12.30 min Scan# 3274  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

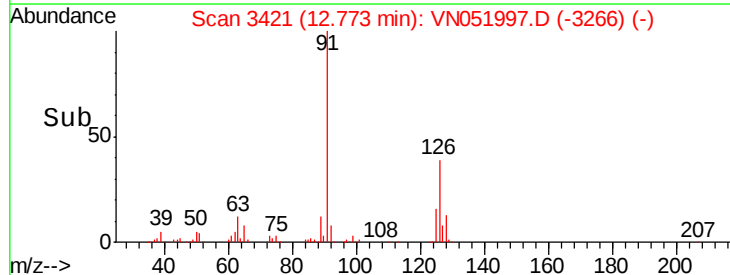
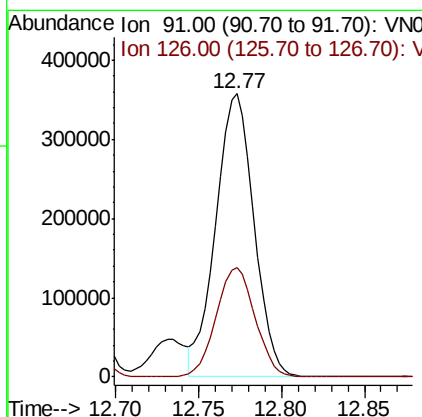
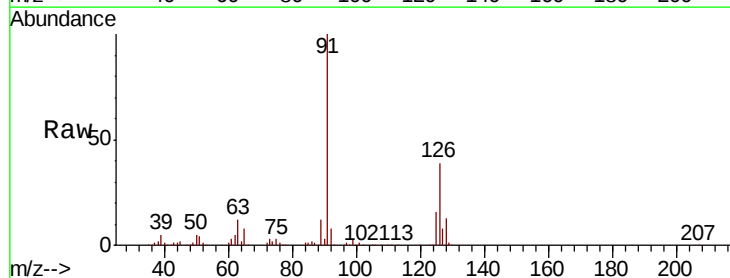
Instrument :  
MSVOA\_N  
ClientSampleId :

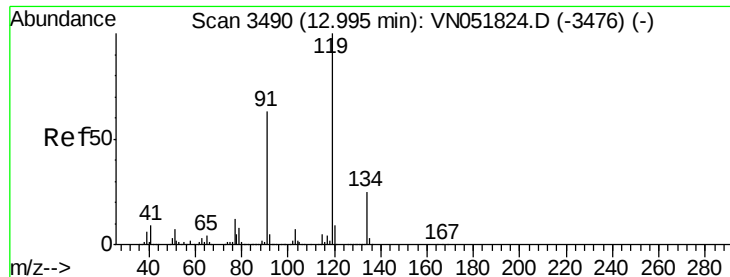
Tot Ion: 75 Resp: 31494  
Ion Ratio Lower Upper  
75 100  
53 98.0 46.3 138.9  
89 53.4 24.6 73.8



#78  
4-Chlorotoluene  
Concen: 18.598 ug/l  
RT: 12.77 min Scan# 3421  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 91 Resp: 574498  
Ion Ratio Lower Upper  
91 100  
126 39.1 0.0 65.2

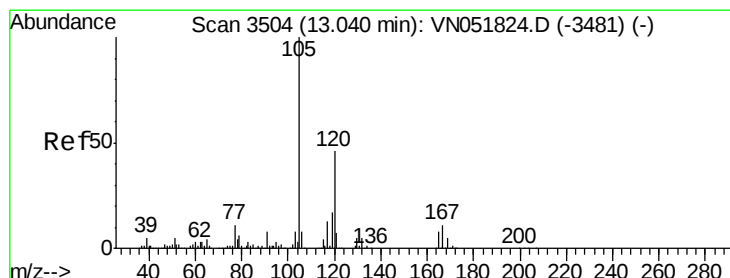
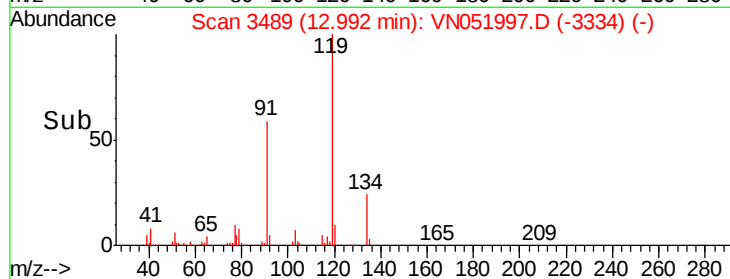
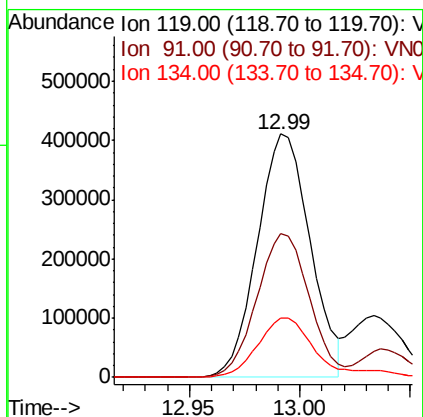
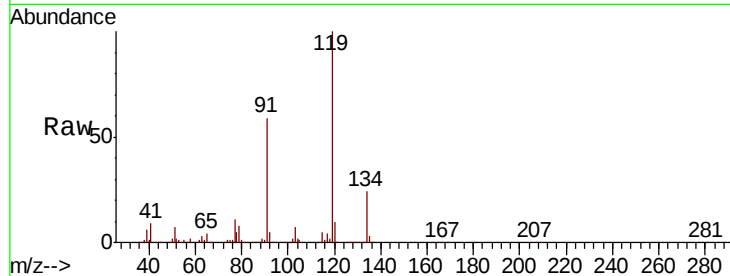




#79  
tert-butylbenzene  
Concen: 18.005 ug/l  
RT: 12.99 min Scan# 3489  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

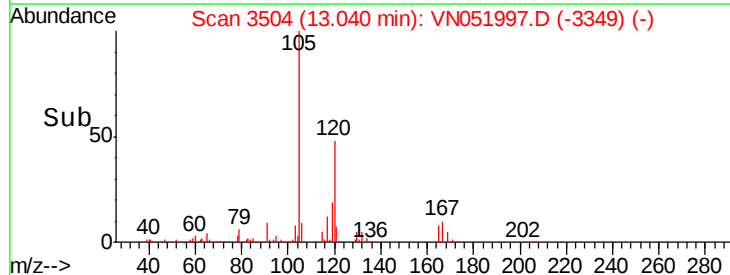
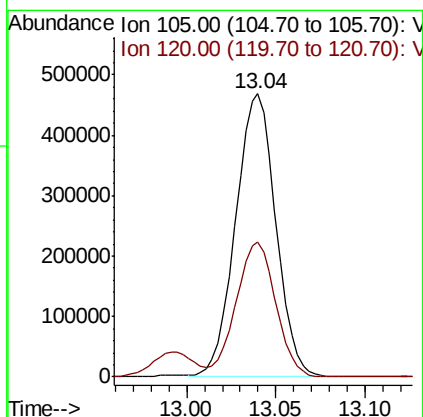
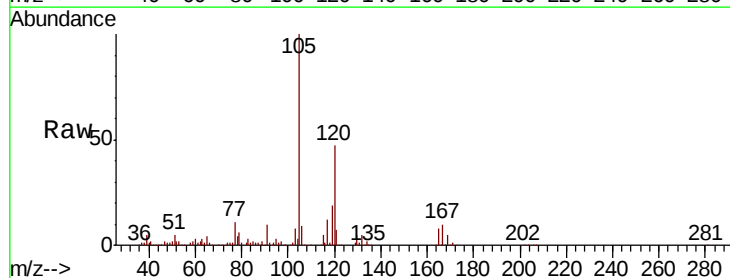
Instrument :  
MSVOA\_N  
ClientSampled :

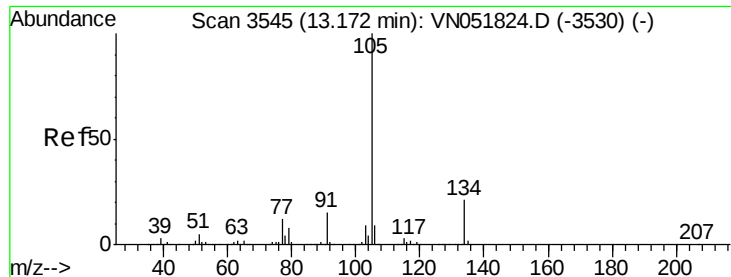
Tot Ion:119 Resp: 682679  
Ion Ratio Lower Upper  
119 100  
91 58.6 0.0 131.6  
134 25.4 0.0 46.2



#80  
1,2,4-Trimethylbenzene  
Concen: 17.855 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion:105 Resp: 735720  
Ion Ratio Lower Upper  
105 100  
120 47.4 0.0 89.6

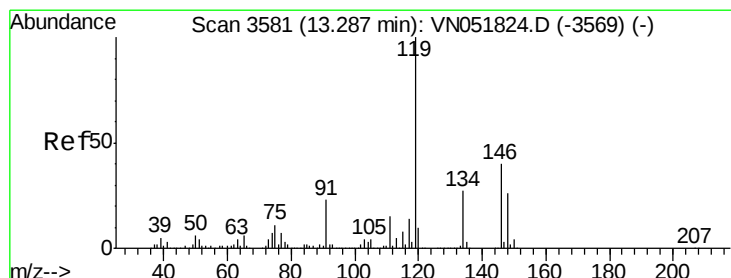
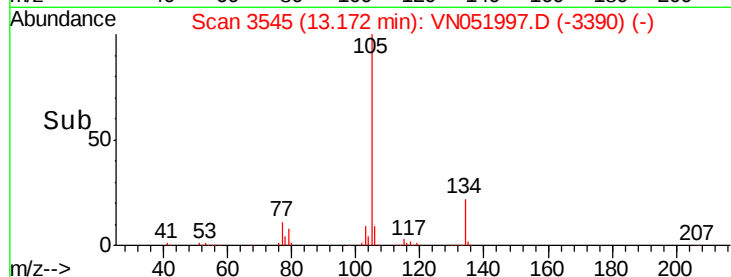
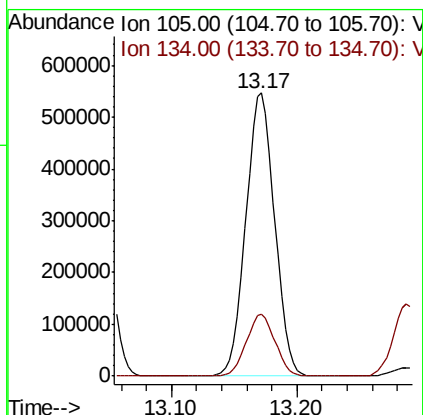
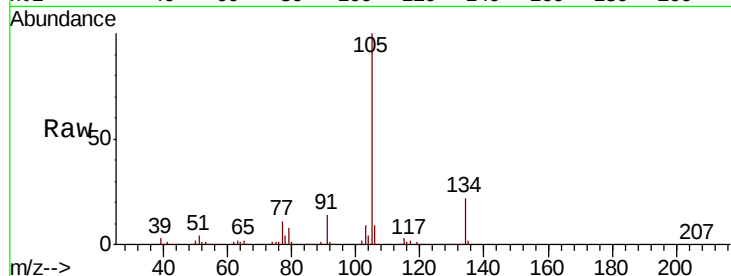




#81  
 sec-Butylbenzene  
 Concen: 17.588 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

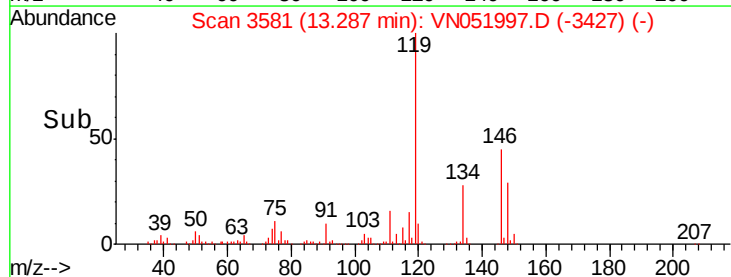
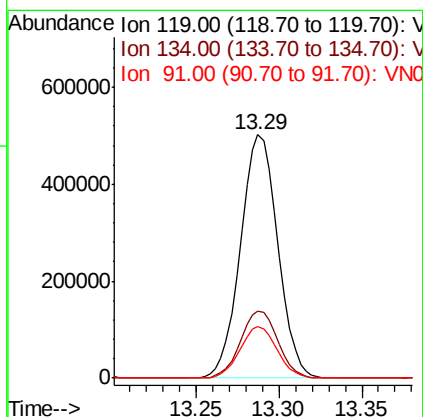
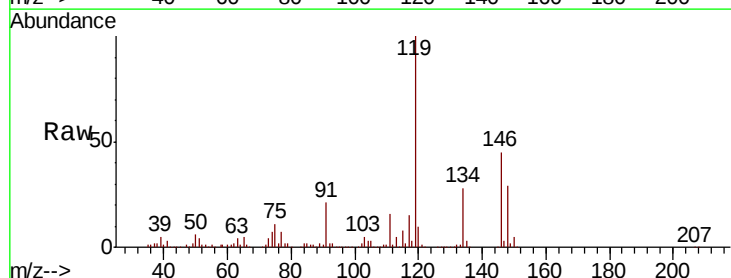
Instrument :  
 MSVOA\_N  
 ClientSampled :

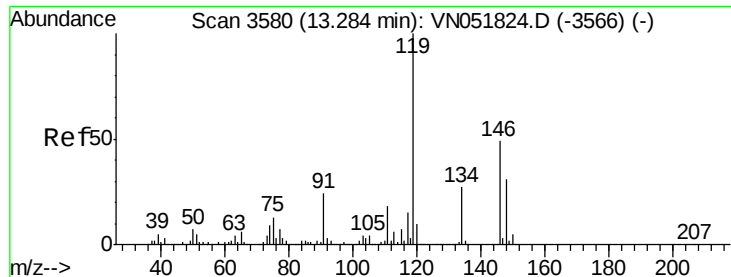
Tot Ion:105 Resp: 872384  
 Ion Ratio Lower Upper  
 105 100  
 134 21.9 0.0 39.4



#82  
 p-Isopropyltoluene  
 Concen: 17.601 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Tgt Ion:119 Resp: 781194  
 Ion Ratio Lower Upper  
 119 100  
 134 27.7 0.0 53.6  
 91 21.1 0.0 52.0

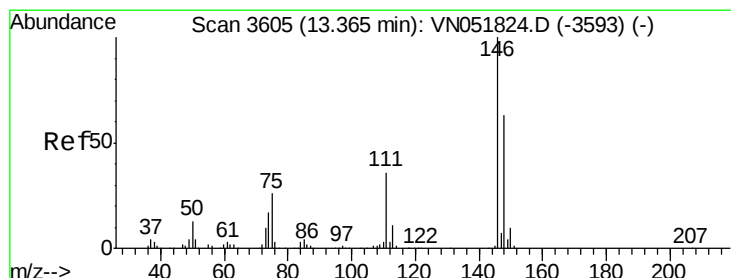
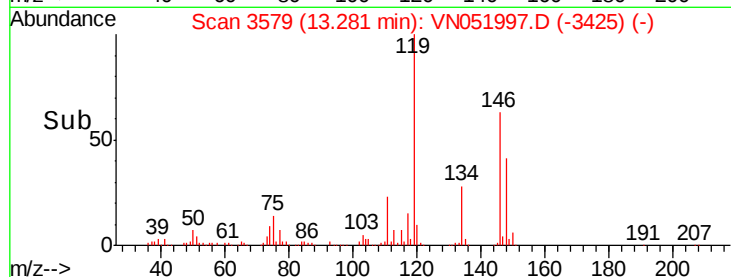
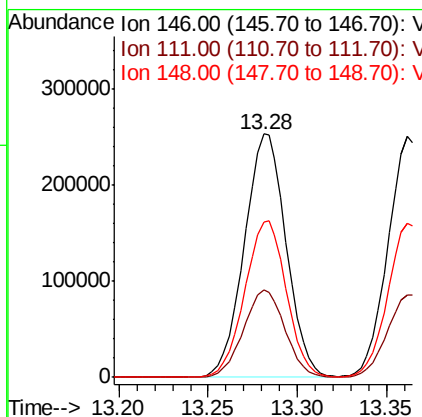
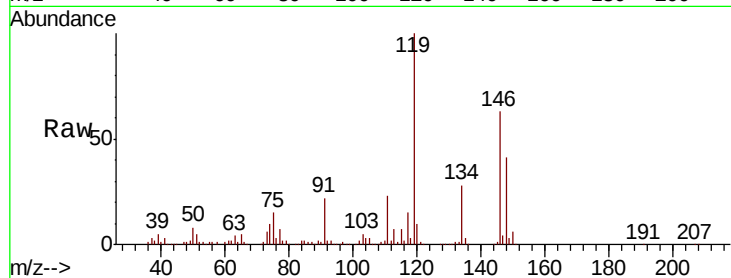




#83  
 1,3-Dichlorobenzene  
 Concen: 19.036 ug/l  
 RT: 13.28 min Scan# 3579  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

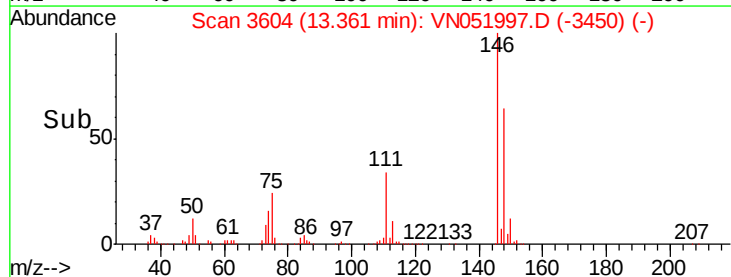
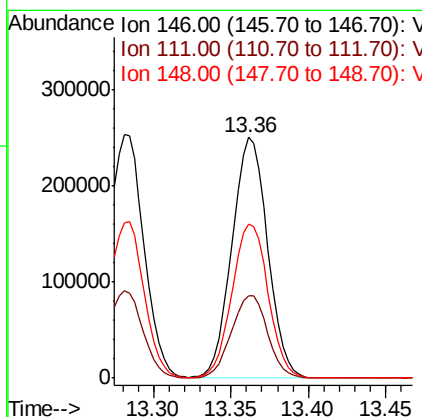
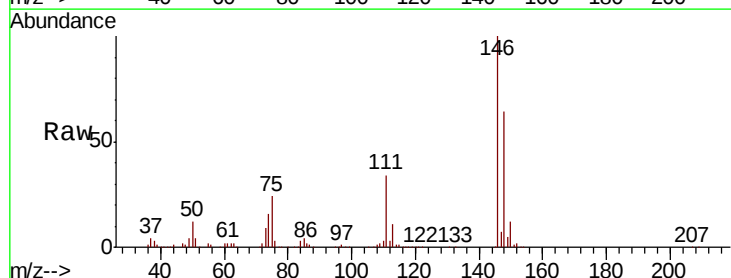
Instrument :  
 MSVOA\_N  
 ClientSampleId :

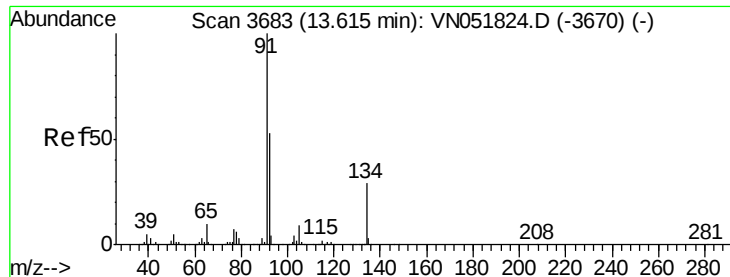
Tot Ion:146 Resp: 414811  
 Ion Ratio Lower Upper  
 146 100  
 111 35.5 18.1 54.3  
 148 63.7 31.3 93.8



#84  
 1,4-Dichlorobenzene  
 Concen: 19.523 ug/l  
 RT: 13.36 min Scan# 3604  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Tgt Ion:146 Resp: 400513  
 Ion Ratio Lower Upper  
 146 100  
 111 34.7 17.4 52.2  
 148 64.9 32.8 98.3

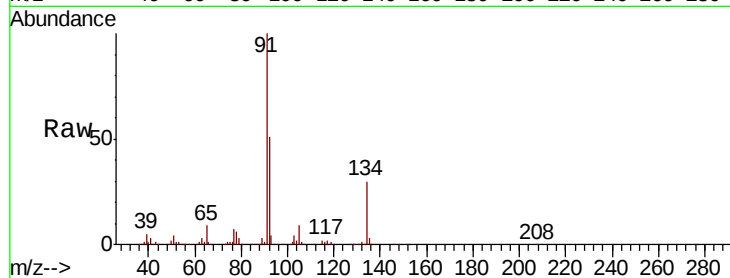




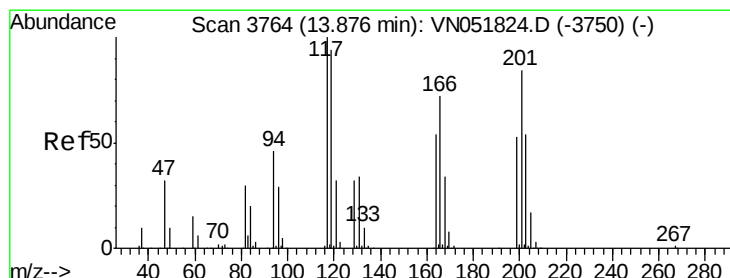
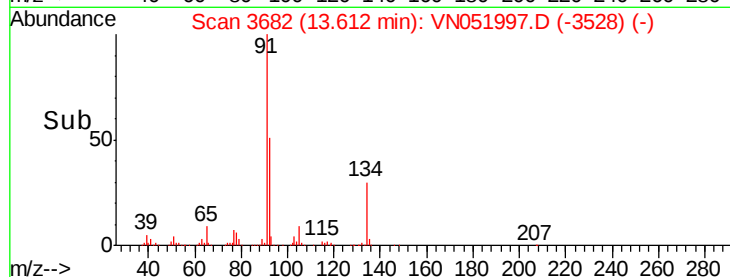
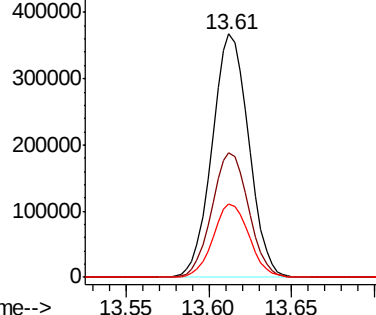
#85  
n-Butylbenzene  
Concen: 16.856 ug/l  
RT: 13.61 min Scan# 3682  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 91 Resp: 564138  
Ion Ratio Lower Upper  
91 100  
92 51.4 0.0 97.4  
134 29.7 0.0 49.6

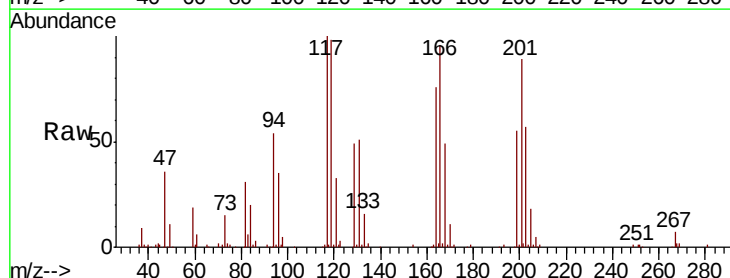


Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-3670) (-)  
Ion 92.00 (91.70 to 92.70): VN051824.D (-3670) (-)  
Ion 134.00 (133.70 to 134.70): VN051824.D (-3670) (-)

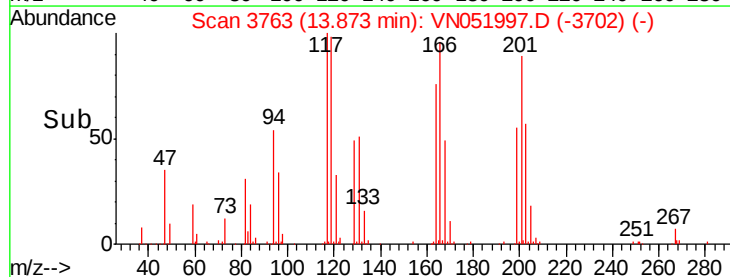
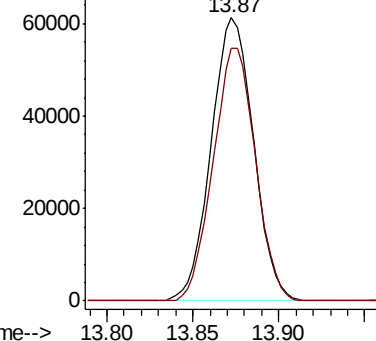


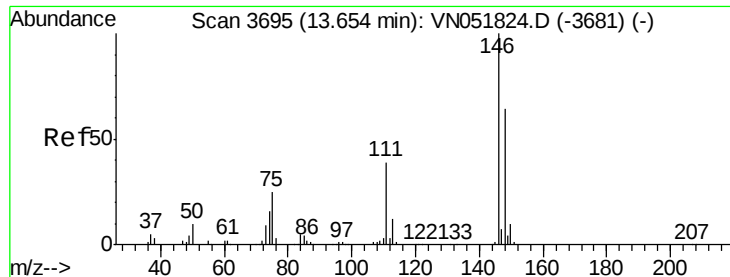
#86  
Hexachloroethane  
Concen: 13.705 ug/l  
RT: 13.87 min Scan# 3763  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Tgt Ion: 117 Resp: 104884  
Ion Ratio Lower Upper  
117 100  
201 88.6 47.8 143.3



Abundance Ion 117.00 (116.70 to 117.70): VN051824.D (-3750) (-)  
Ion 201.00 (200.70 to 201.70): VN051824.D (-3750) (-)





#87

1,2-Dichlorobenzene

Concen: 18.309 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN051997.D

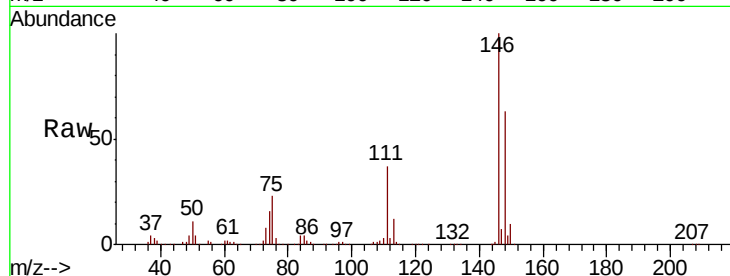
Acq: 24 Oct 2018 19:20

Instrument :

MSVOA\_N

ClientSampled :

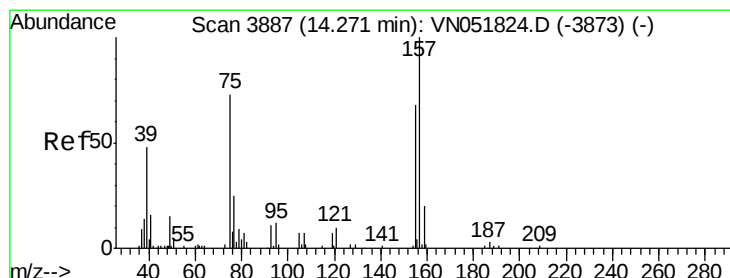
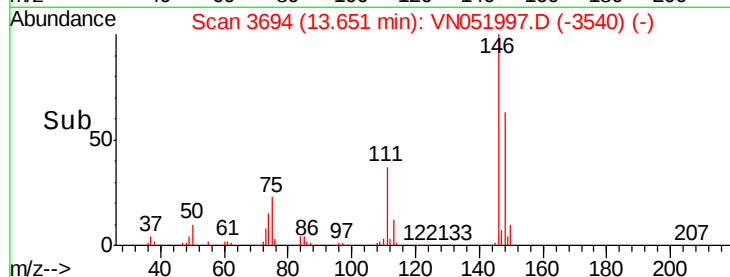
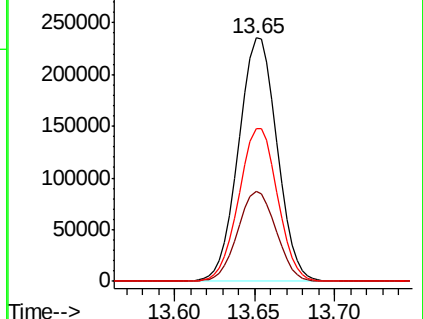
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 146   | Resp: | 386265 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 37.1  | 20.8  | 62.2   |
| 148      | 63.2  | 33.2  | 99.6   |



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 9.750 ug/l

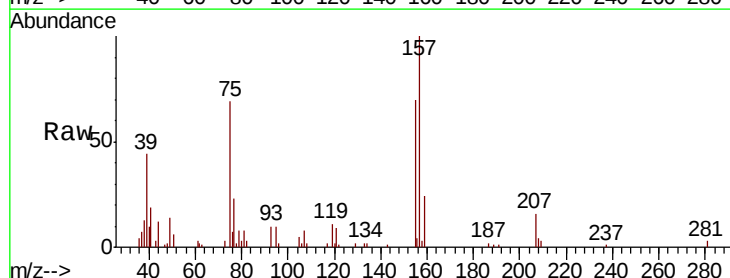
RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

Lab File: VN051997.D

Acq: 24 Oct 2018 19:20

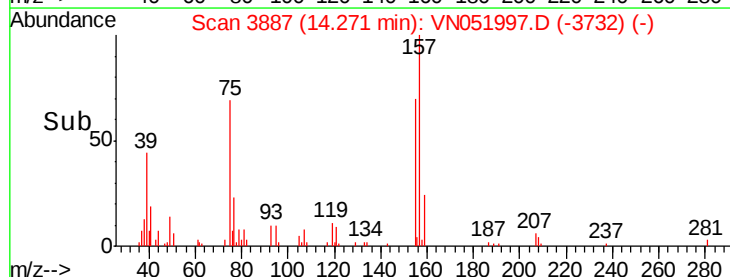
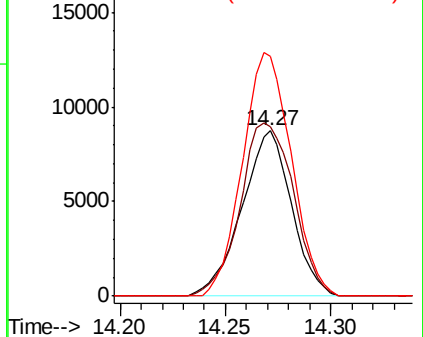
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 14337  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 112.5 | 57.0  | 85.6#  |
| 157      | 144.7 | 87.4  | 131.0# |

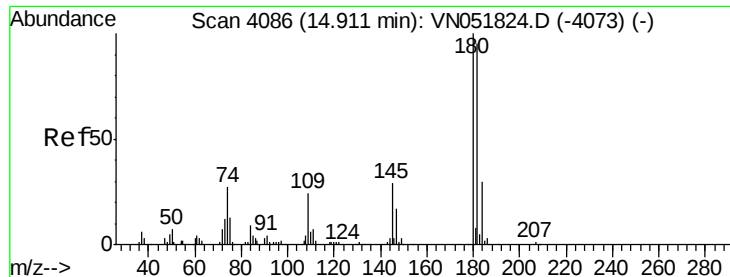


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

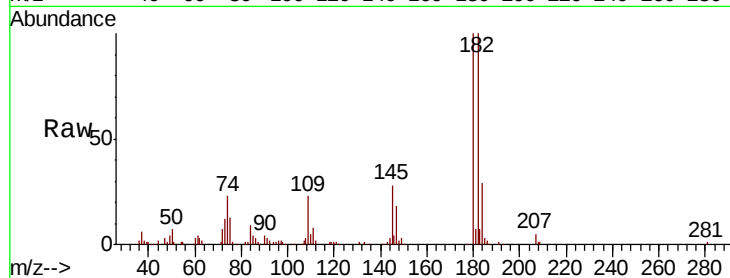




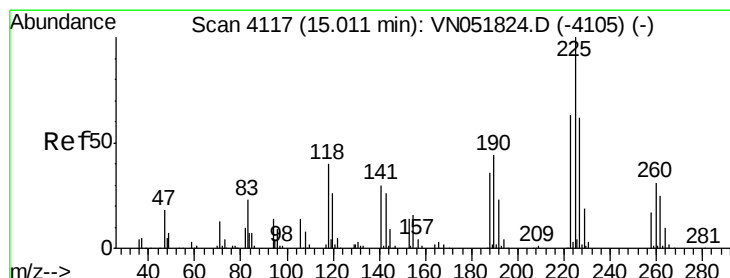
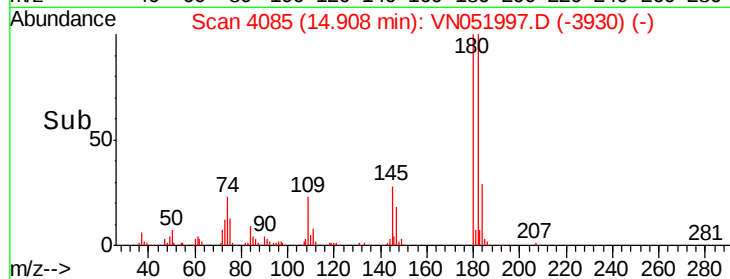
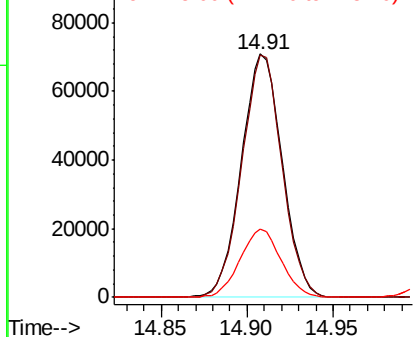
#89  
 1,2,4-Trichlorobenzene  
 Concen: 16.151 ug/l  
 RT: 14.91 min Scan# 4085  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

Instrument :  
 MSVOA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.6  | 77.7  | 116.5 |
| 145     | 28.1  | 23.4  | 35.2  |

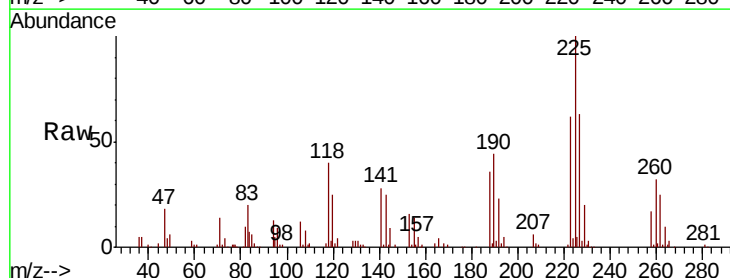


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

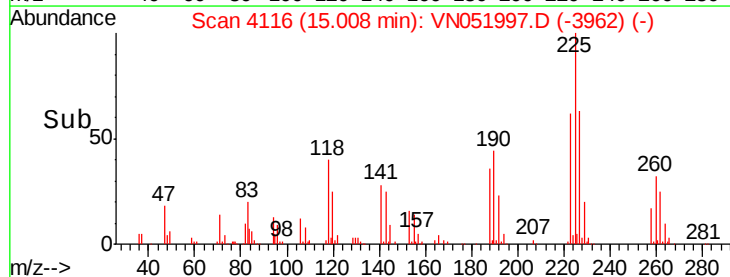
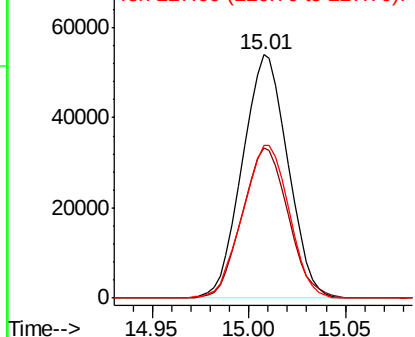


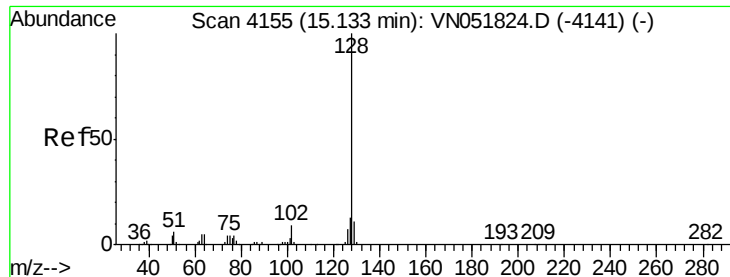
#90  
 Hexachlorobutadiene  
 Concen: 13.034 ug/l  
 RT: 15.01 min Scan# 4116  
 Delta R.T. -0.00 min  
 Lab File: VN051997.D  
 Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.1  | 0.0   | 117.0 |
| 227     | 63.8  | 0.0   | 127.0 |



Abundance Ion 225.00 (224.70 to 225.70): V  
 Ion 223.00 (222.70 to 223.70): V  
 Ion 227.00 (226.70 to 227.70): V

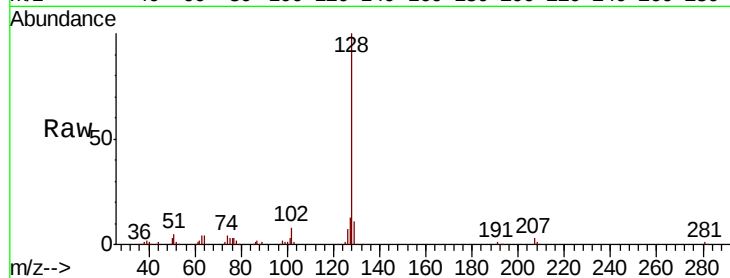




#91  
Naphthalene  
Concen: 15.382 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

Instrument :  
MSVOA\_N  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.1  | 15.1  |
| 129     | 11.0  | 8.4   | 12.6  |

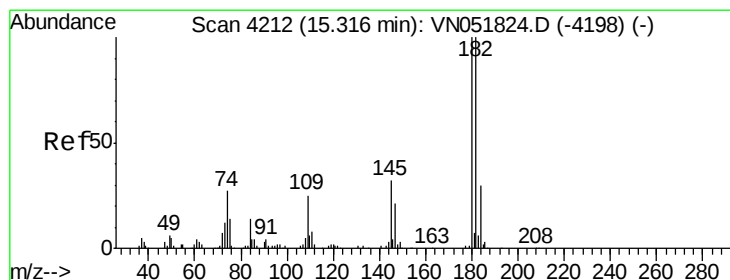
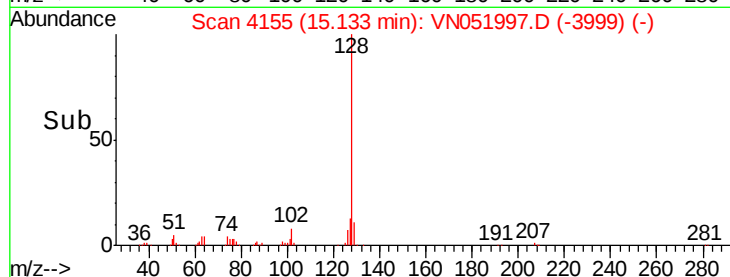
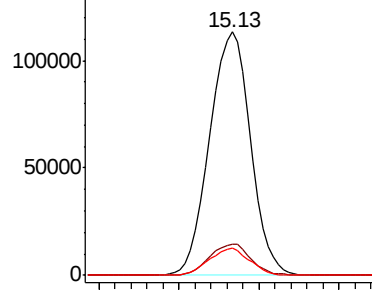


Abundance

Ion 128.00 (127.70 to 128.70): V

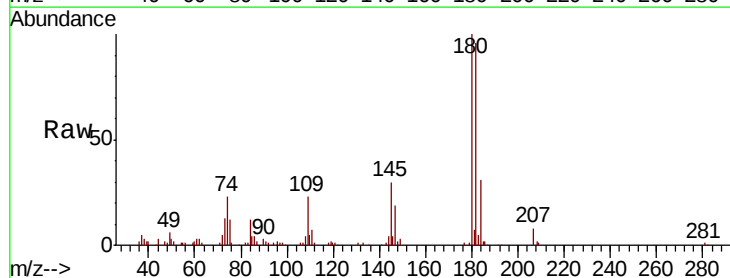
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92  
1,2,3-Trichlorobenzene  
Concen: 9.182 ug/l  
RT: 15.31 min Scan# 4211  
Delta R.T. -0.00 min  
Lab File: VN051997.D  
Acq: 24 Oct 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.3  | 0.0   | 198.0 |
| 145     | 29.9  | 0.0   | 36.8  |



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

