

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\  
 Data File : VN050505.D  
 Acq On : 10 Aug 2018 00:06  
 Operator : MD\SY  
 Sample : VSTDCCC020EC  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 10 07:27:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 26 15:21:50 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 133348   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 719124   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 631608   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 271287   | 29.93    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 99.77% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 289449   | 29.83    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 99.43% |
| 63) Toluene-d8            | 10.09  | 98    | 903449   | 29.95    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 99.83% |

## Target Compounds

|                               |      |     |        |        |      | Ovalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 137839 | 15.00  | ug/l | 94     |
| 3) Chloromethane              | 2.06 | 50  | 170128 | 17.96  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.18 | 62  | 182500 | 18.09  | ug/l | 98     |
| 5) Bromomethane               | 2.57 | 94  | 102395 | 16.65  | ug/l | 99     |
| 6) Chloroethane               | 2.70 | 64  | 113201 | 18.98  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 248084 | 18.82  | ug/l | 98     |
| 8) Diethyl Ether              | 3.41 | 74  | 83571  | 18.90  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 151339 | 18.87  | ug/l | 99     |
| 10) 1,1-Dichloroethene        | 3.74 | 96  | 137066 | 19.28  | ug/l | 93     |
| 11) Methyl Iodide             | 3.95 | 142 | 70101  | 6.70   | ug/l | 99     |
| 12) Methyl Acetate            | 4.33 | 43  | 127234 | 15.62  | ug/l | 99     |
| 13) Acrolein                  | 3.61 | 56  | 42610  | 84.66  | ug/l | 96     |
| 14) Acrylonitrile             | 4.99 | 53  | 251116 | 92.40  | ug/l | 98     |
| 15) Acetone                   | 3.82 | 58  | 74011  | 102.48 | ug/l | 98     |
| 16) Carbon Disulfide          | 4.05 | 76  | 395433 | 18.17  | ug/l | 99     |
| 17) Allyl chloride            | 4.33 | 41  | 201095 | 17.91  | ug/l | 98     |
| 18) Methylene Chloride        | 4.55 | 84  | 161613 | 19.70  | ug/l | 99     |
| 19) trans-1,2-Dichloroethene  | 5.05 | 96  | 146920 | 19.30  | ug/l | 99     |
| 20) Diisopropyl ether         | 5.96 | 45  | 468809 | 20.36  | ug/l | 98     |
| 21) 1,1-Dichloroethane        | 5.85 | 63  | 282916 | 19.54  | ug/l | 98     |
| 22) cis-1,2-Dichloroethene    | 6.83 | 96  | 167979 | 19.90  | ug/l | 96     |
| 23) tert-Butyl Alcohol        | 4.80 | 59  | 50715  | 83.52  | ug/l | # 100  |
| 24) Methyl tert-Butyl Ether   | 5.05 | 73  | 376043 | 19.39  | ug/l | 100    |
| 25) Chloroform                | 7.37 | 83  | 290479 | 19.82  | ug/l | 99     |
| 26) Cyclohexane               | 7.65 | 56  | 219311 | 19.06  | ug/l | # 99   |
| 29) 1,1-Dichloropropene       | 7.80 | 75  | 207617 | 18.60  | ug/l | 99     |
| 30) 2-Butanone                | 6.84 | 43  | 349620 | 99.83  | ug/l | 99     |
| 31) 2,2-Dichloropropane       | 6.83 | 77  | 180186 | 14.61  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 246454 | 18.76  | ug/l | 100    |
| 33) Carbon Tetrachloride      | 7.78 | 117 | 216166 | 18.46  | ug/l | 99     |
| 34) Benzene                   | 8.05 | 78  | 641543 | 18.93  | ug/l | 98     |
| 35) Methacrylonitrile         | 7.18 | 41  | 60630  | 15.21  | ug/l | 96     |
| 36) 1,2-Dichloroethane        | 8.13 | 62  | 204804 | 18.40  | ug/l | 99     |
| 37) Trichloroethene           | 8.84 | 130 | 172694 | 19.43  | ug/l | 94     |
| 38) Methylcyclohexane         | 9.08 | 83  | 205901 | 17.50  | ug/l | 99     |
| 39) 1,2-Dichloropropane       | 9.12 | 63  | 169590 | 18.99  | ug/l | 100    |
| 40) Dibromomethane            | 9.21 | 93  | 102456 | 18.57  | ug/l | 100    |

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 26 15:21:50 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Bromodichloromethane       | 9.41  | 83   | 215730   | 18.53  | ug/l  | 99       |
| 42) Vinyl Acetate              | 5.90  | 43   | 1495398  | 90.74  | ug/l  | 99       |
| 43) Ethyl Acetate              | 6.94  | 43   | 124567   | 17.03  | ug/l  | 96       |
| 44) Isopropyl Acetate          | 8.17  | 43   | 227569   | 16.80  | ug/l  | # 82     |
| 45) 1,4-Dioxane                | 9.20  | 88   | 31505    | 353.42 | ug/l  | 99       |
| 46) Methyl methacrylate        | 9.20  | 41   | 111544   | 16.99  | ug/l  | 98       |
| 47) n-amyl Acetate             | 12.07 | 43   | 180689   | 17.14  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 194171   | 17.50  | ug/l  | 99       |
| 49) cis-1,3-Dichloropropene    | 9.84  | 75   | 229895   | 17.63  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 147943   | 18.68  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 168734   | 17.55  | ug/l  | 99       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 241794   | 18.59  | ug/l  | 100      |
| 53) Dibromochloromethane       | 10.90 | 129  | 162017   | 18.02  | ug/l  | 99       |
| 54) 1,2-Dibromoethane          | 11.01 | 107  | 141146   | 18.19  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether  | 9.70  | 63   | 411070   | 94.47  | ug/l  | 99       |
| 56) Bromoform                  | 12.13 | 173  | 107916   | 17.00  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone       | 9.99  | 43   | 803605   | 109.34 | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 514992   | 102.71 | ug/l  | 99       |
| 61) Tetrachloroethene          | 10.63 | 164  | 167175   | 19.54  | ug/l  | 99       |
| 62) Toluene                    | 10.16 | 91   | 690826   | 19.17  | ug/l  | 99       |
| 64) Chlorobenzene              | 11.44 | 112  | 425720   | 19.48  | ug/l  | 97       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 163200   | 19.15  | ug/l  | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 692307   | 18.80  | ug/l  | 99       |
| 67) m/p-Xylenes                | 11.62 | 106  | 548366   | 38.69  | ug/l  | 99       |
| 68) o-Xylene                   | 11.95 | 106  | 260103   | 19.29  | ug/l  | 99       |
| 69) Styrene                    | 11.97 | 104  | 419395   | 19.40  | ug/l  | 100      |
| 70) Isopropylbenzene           | 12.25 | 105  | 684499   | 19.06  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 183197   | 18.58  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 204946   | 24.34  | ug/l  | 58       |
| 73) Bromobenzene               | 12.53 | 156  | 180017   | 18.82  | ug/l  | 99       |
| 74) n-propylbenzene            | 12.59 | 91   | 772547   | 18.47  | ug/l  | 99       |
| 75) 2-Chlorotoluene            | 12.68 | 91   | 480451   | 19.13  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 568135   | 19.26  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 36064    | 13.10  | ug/l  | 98       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 479824   | 19.27  | ug/l  | 99       |
| 79) tert-butylbenzene          | 12.99 | 119  | 482542   | 19.14  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 576612   | 19.29  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 13.17 | 105  | 629992   | 18.39  | ug/l  | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 536296   | 18.35  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 312599   | 18.77  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 294398   | 18.70  | ug/l  | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 395885   | 16.69  | ug/l  | 100      |
| 86) Hexachloroethane           | 13.88 | 117  | 90546    | 15.50  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 308534   | 18.95  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 24951    | 16.24  | ug/l  | 99       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 136129   | 17.50  | ug/l  | 98       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 90101    | 17.57  | ug/l  | 98       |
| 91) Naphthalene                | 15.13 | 128  | 269512   | 18.70  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 134711   | 17.03  | ug/l  | 98       |

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QLast Update : Thu Jul 26 15:21:50 2018  
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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

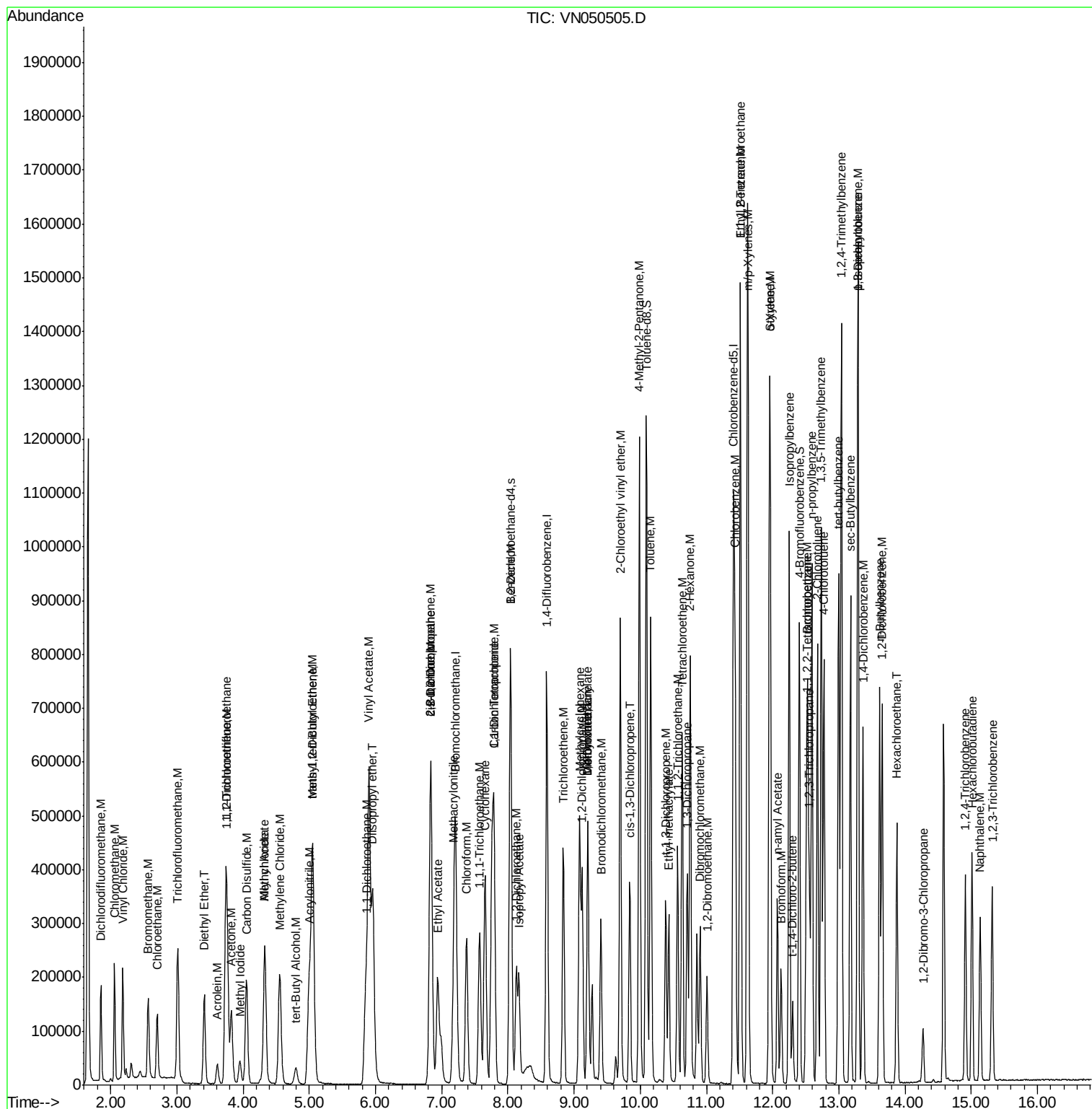
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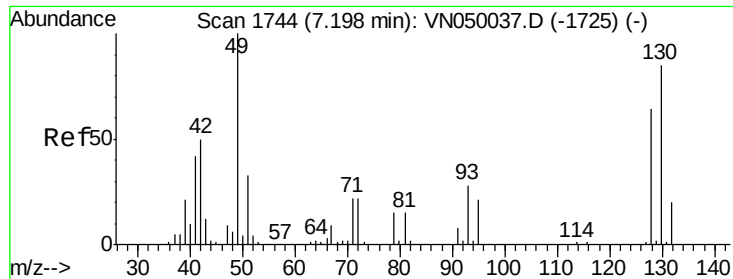
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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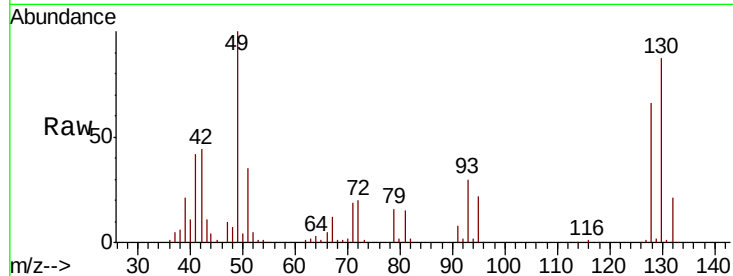




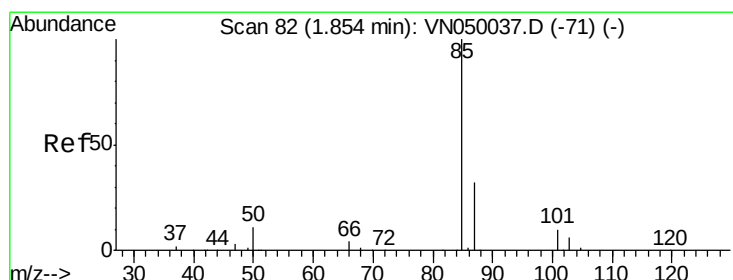
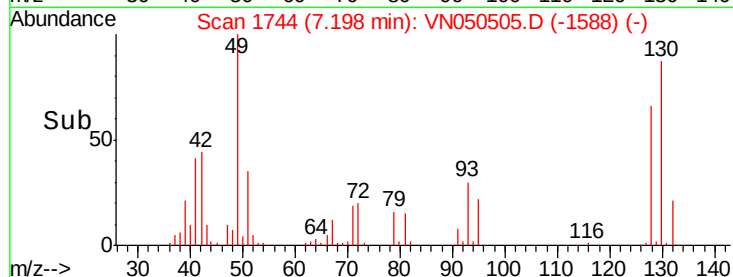
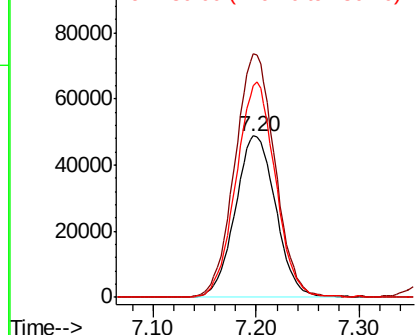
#1  
Bromochloromethane  
Concen: 30.00 ug/l  
RT: 7.20 min Scan# 1744  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:128 Resp: 133348  
Ion Ratio Lower Upper  
128 100  
49 149.6 0.0 378.3  
130 129.2 0.0 320.7

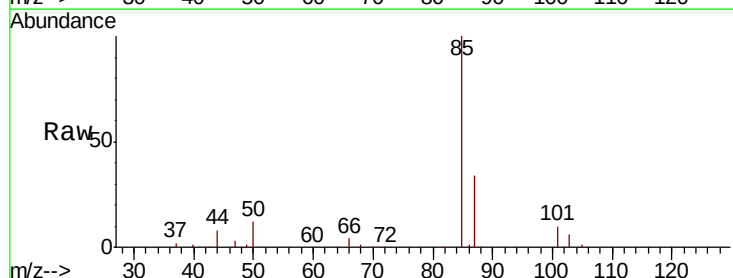


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VN  
Ion 130.00 (129.70 to 130.70): V

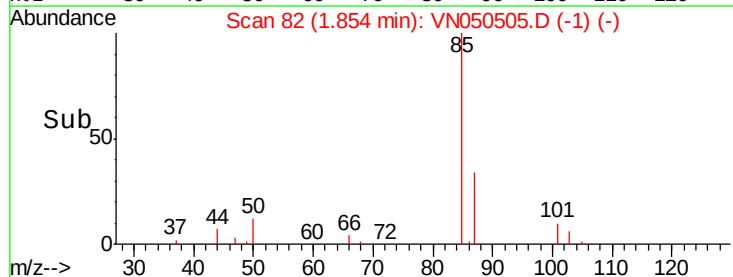
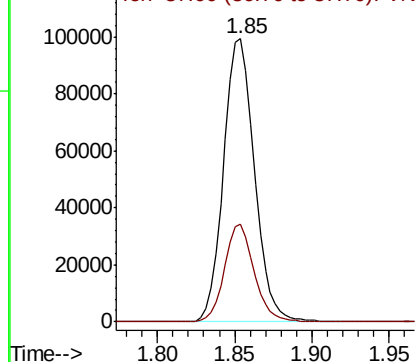


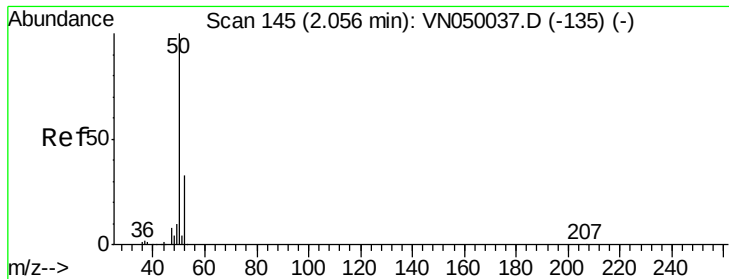
#2  
Dichlorodifluoromethane  
Concen: 15.00 ug/l  
RT: 1.85 min Scan# 82  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 85 Resp: 137839  
Ion Ratio Lower Upper  
85 100  
87 34.3 15.4 46.4



Abundance Ion 85.00 (84.70 to 85.70): VN  
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 17.96 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

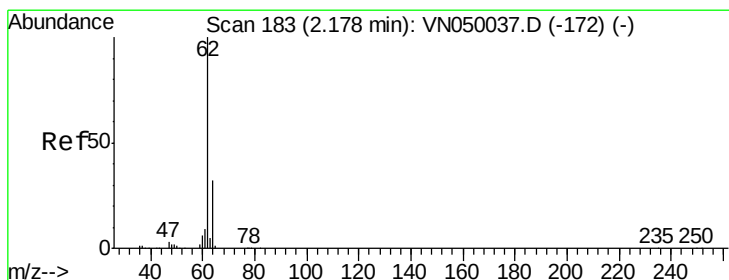
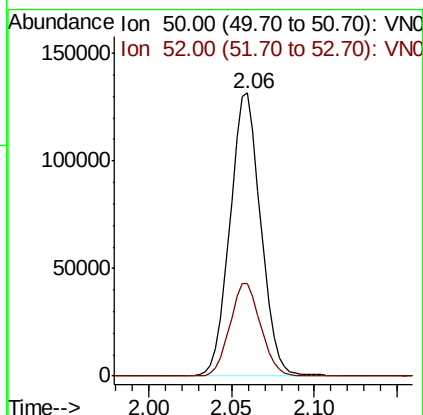
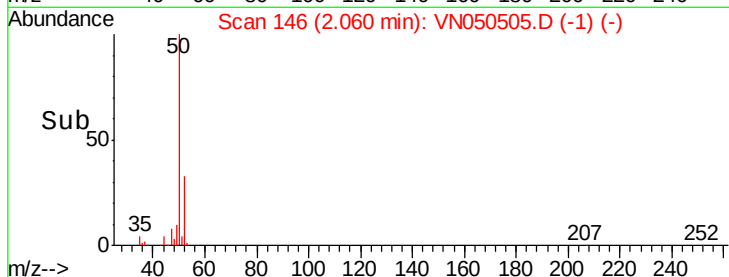
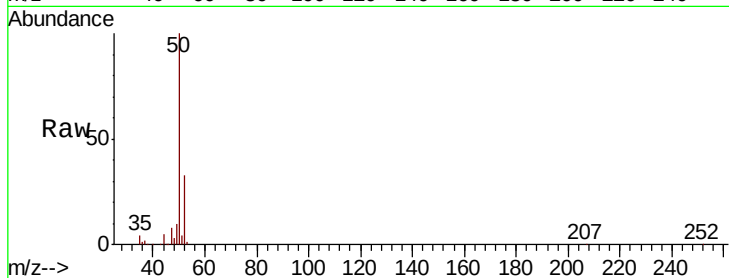
ClientSampled :

Tot Ion: 50 Resp: 170128

Ion Ratio Lower Upper

50 100

52 32.5 26.1 39.1



#4

Vinyl Chloride

Concen: 18.09 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050505.D

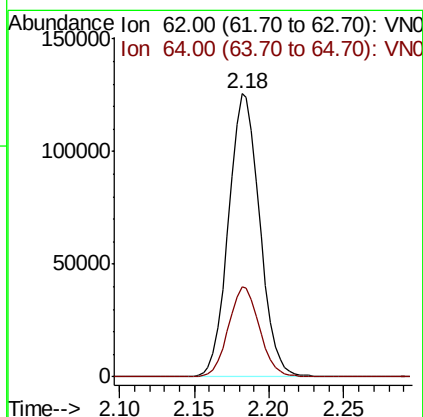
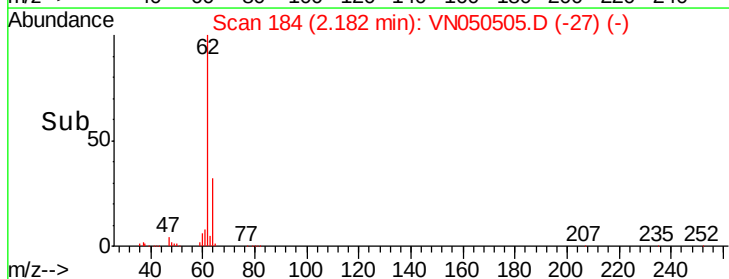
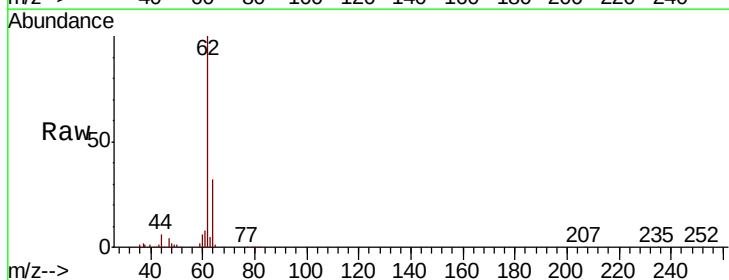
Acq: 10 Aug 2018 00:06

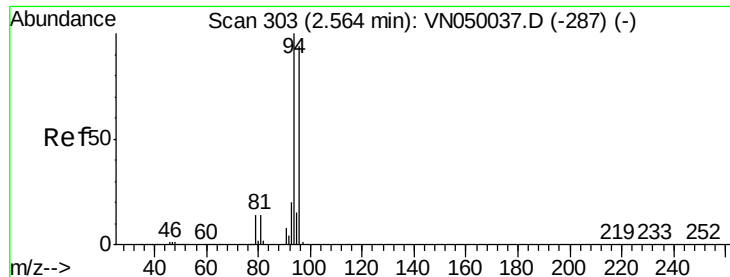
Tgt Ion: 62 Resp: 182500

Ion Ratio Lower Upper

62 100

64 31.6 24.4 36.6





#5

Bromomethane

Concen: 16.65 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

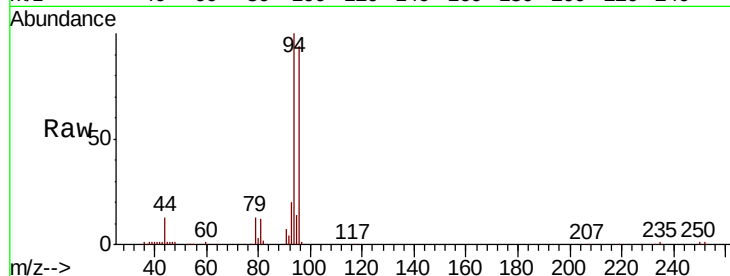
ClientSampled :

Tot Ion: 94 Resp: 102395

Ion Ratio Lower Upper

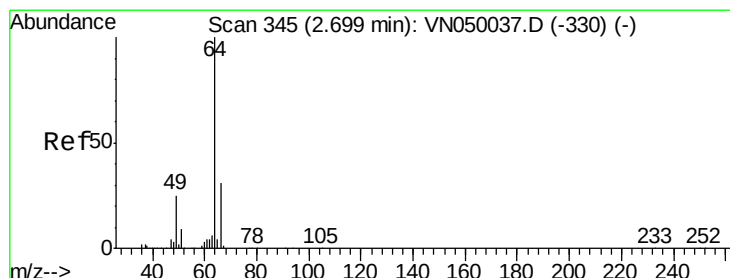
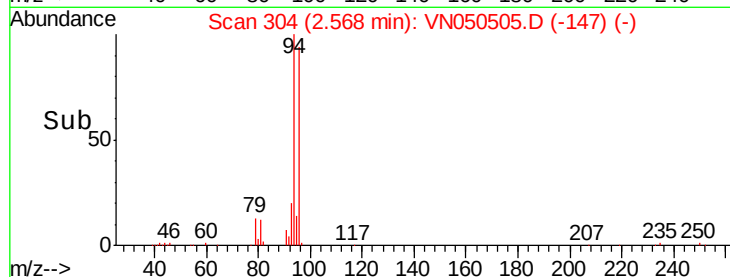
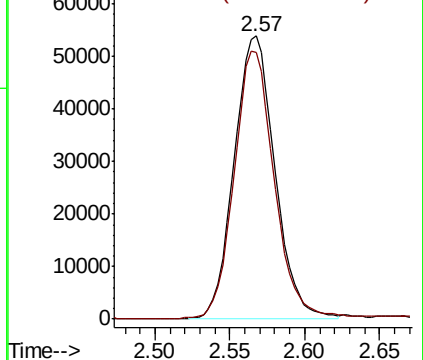
94 100

96 93.8 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 18.98 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050505.D

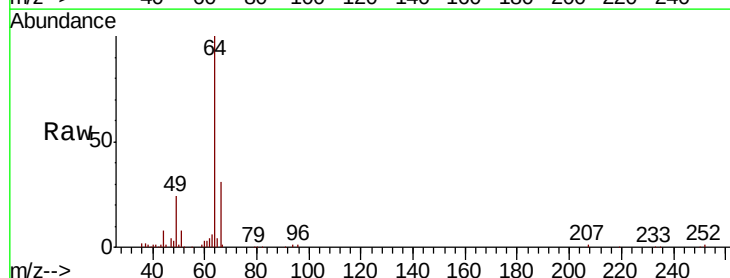
Acq: 10 Aug 2018 00:06

Tgt Ion: 64 Resp: 113201

Ion Ratio Lower Upper

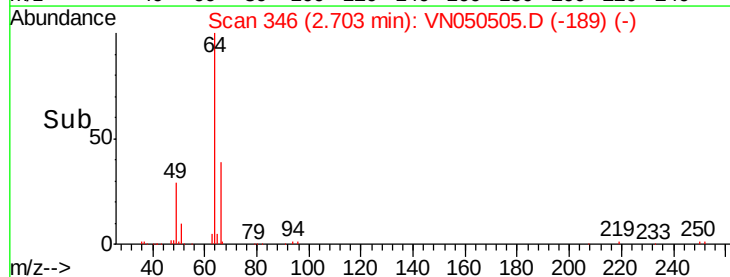
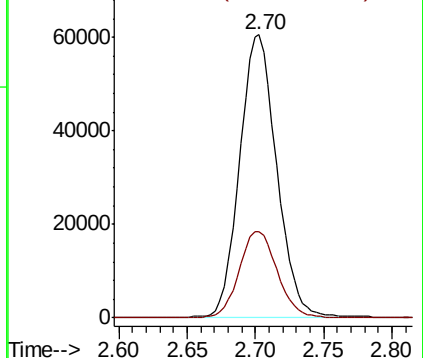
64 100

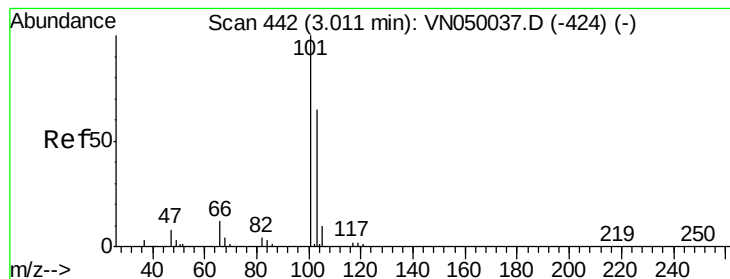
66 30.8 25.0 37.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



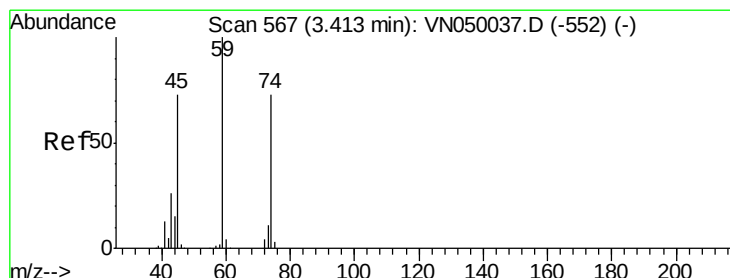
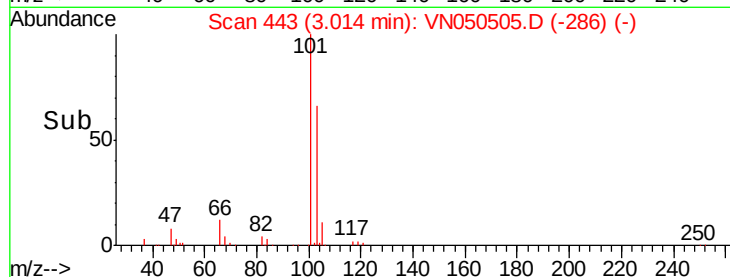
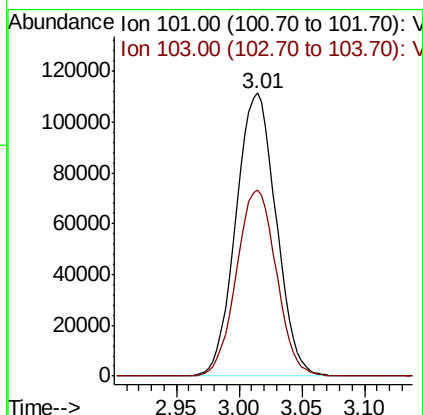
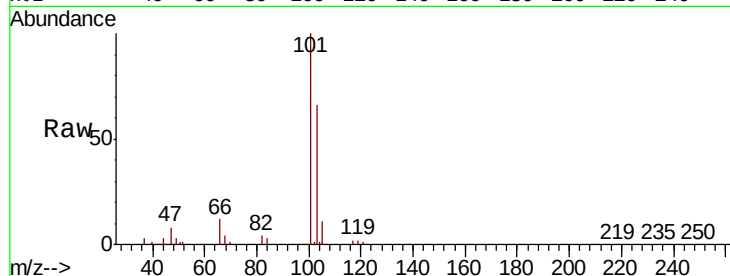


#7

Trichlorofluoromethane  
 Concen: 18.82 ug/l  
 RT: 3.01 min Scan# 443  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :

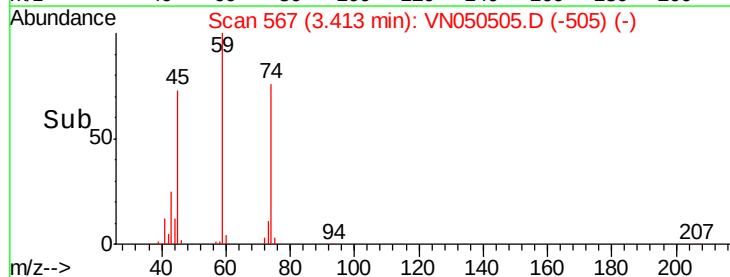
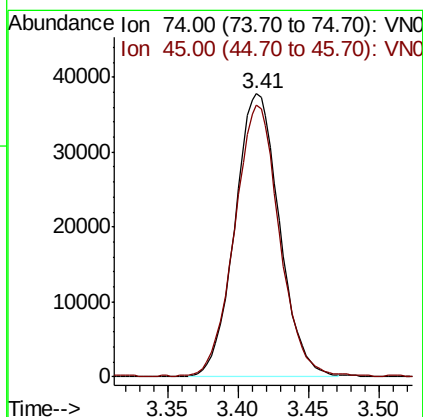
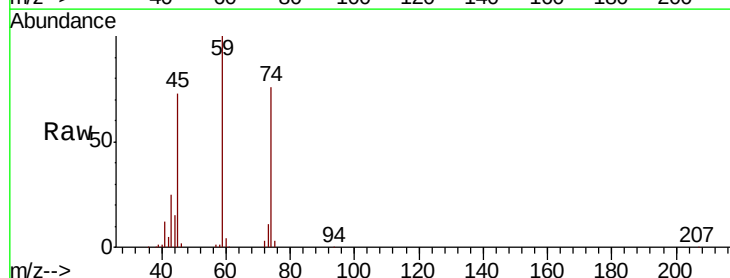
Tot Ion:101 Resp: 248084  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 51.5 77.3



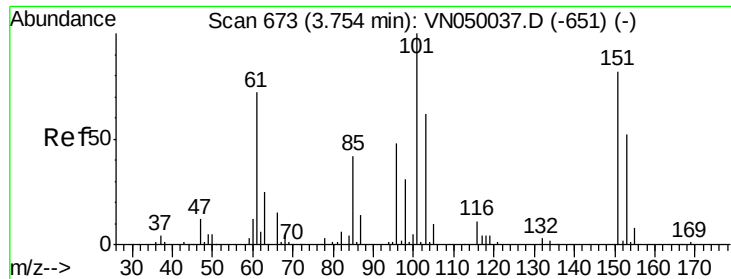
#8

Diethyl Ether  
 Concen: 18.90 ug/l  
 RT: 3.41 min Scan# 567  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion: 74 Resp: 83571  
 Ion Ratio Lower Upper  
 74 100  
 45 96.6 18.7 167.9







#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.87 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.01 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampleId :

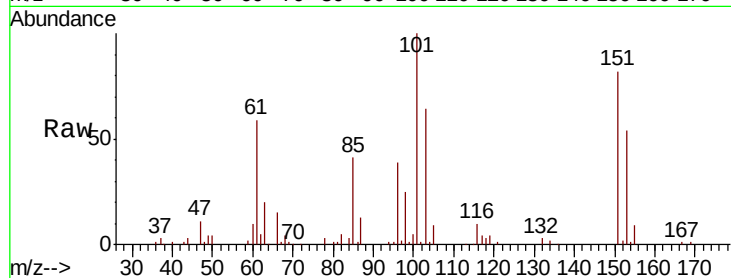
Tot Ion:101 Resp: 151339

Ion Ratio Lower Upper

101 100

85 42.0 0.0 83.0

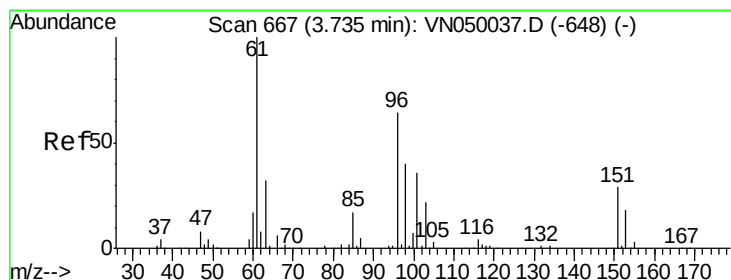
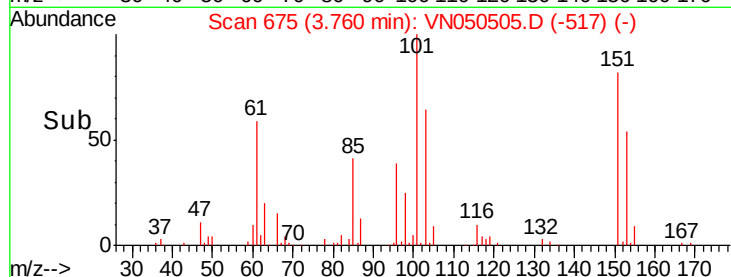
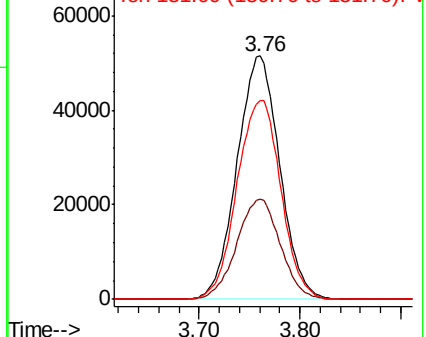
151 83.8 0.0 166.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.28 ug/l

RT: 3.74 min Scan# 668

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

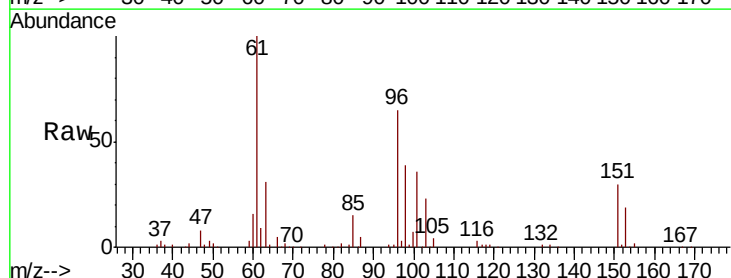
Tgt Ion: 96 Resp: 137066

Ion Ratio Lower Upper

96 100

61 153.5 130.6 195.8

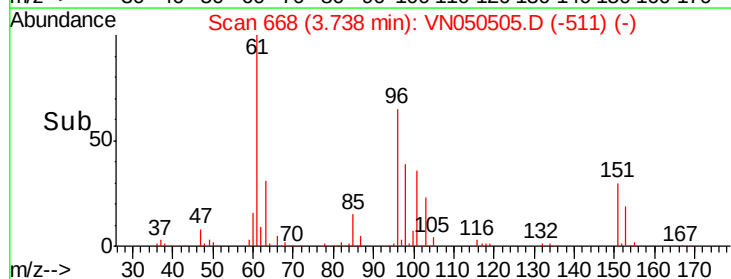
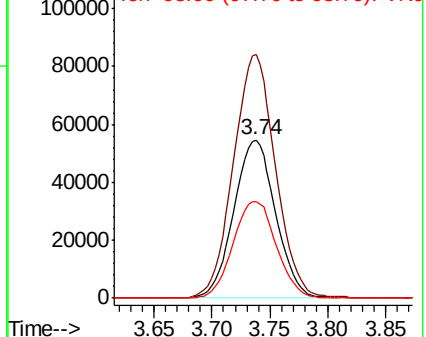
98 60.6 53.5 80.3

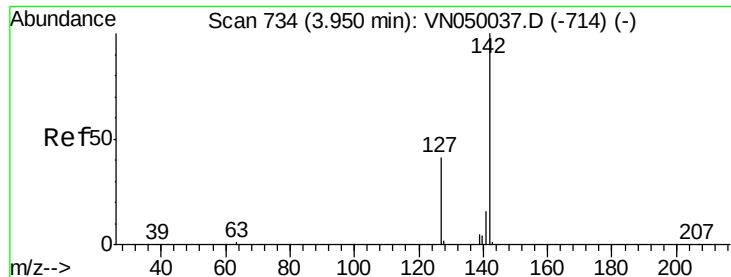


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

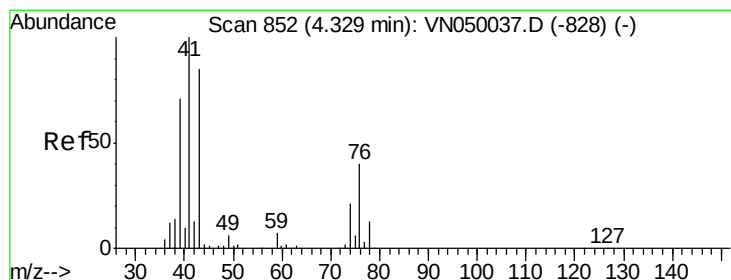
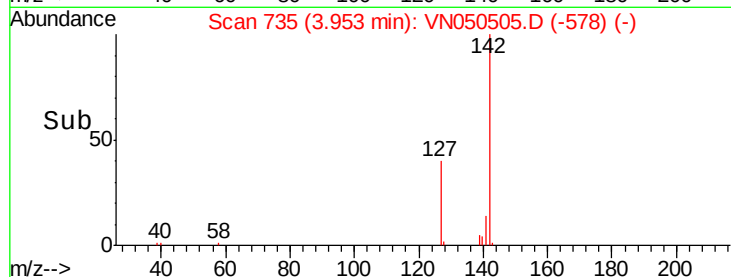
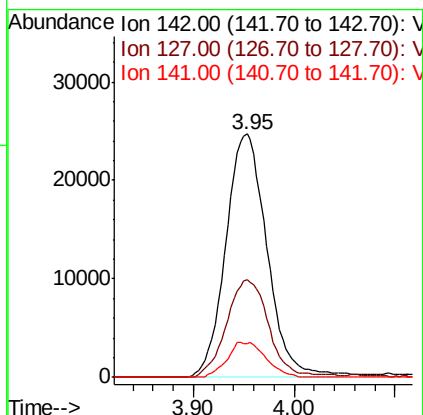
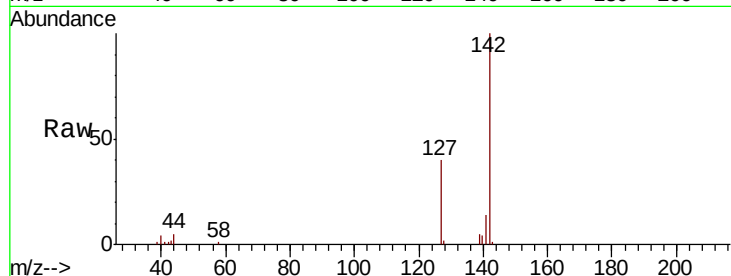




#11  
Methyl Iodide  
Concen: 6.70 ug/l  
RT: 3.95 min Scan# 735  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

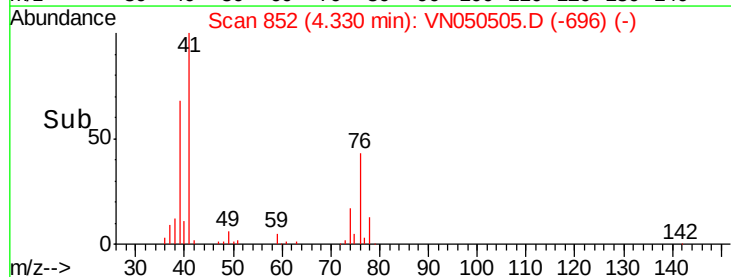
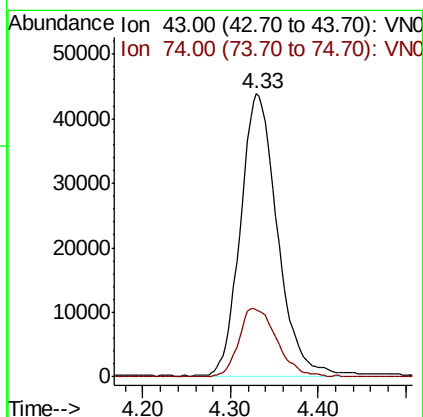
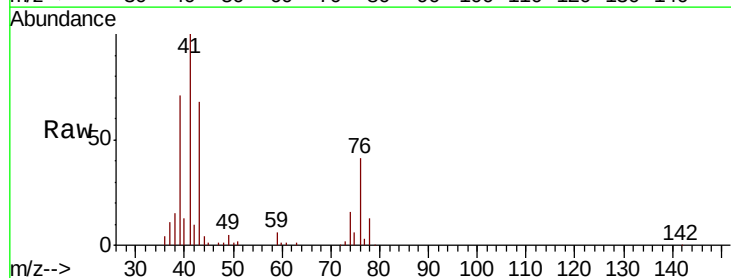
Instrument :  
MSVOA\_N  
ClientSampleId :

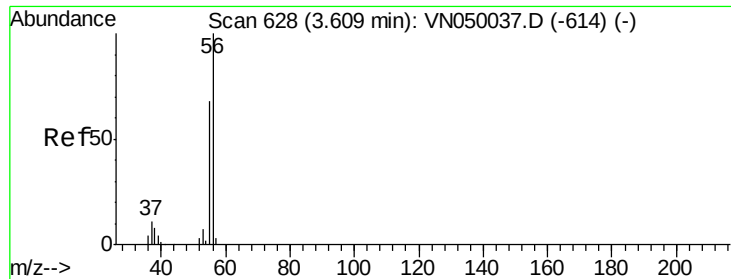
Tot Ion:142 Resp: 70101  
Ion Ratio Lower Upper  
142 100  
127 39.9 20.2 60.5  
141 14.1 6.9 20.6



#12  
Methyl Acetate  
Concen: 15.62 ug/l  
RT: 4.33 min Scan# 852  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 43 Resp: 127234  
Ion Ratio Lower Upper  
43 100  
74 23.7 19.3 28.9





#13

Acrolein

Concen: 84.66 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

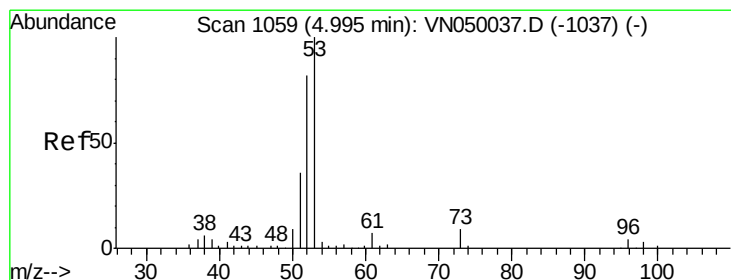
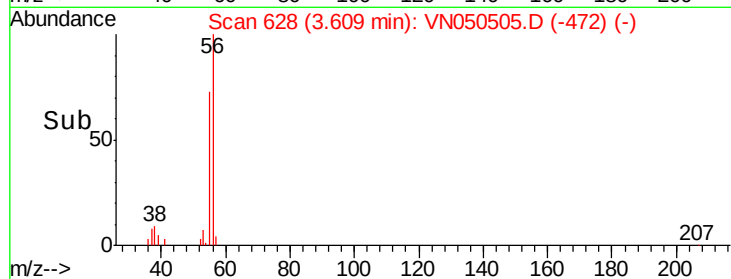
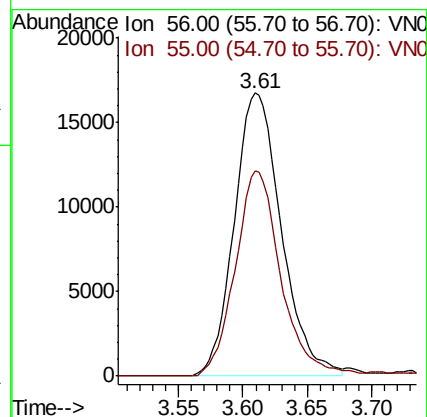
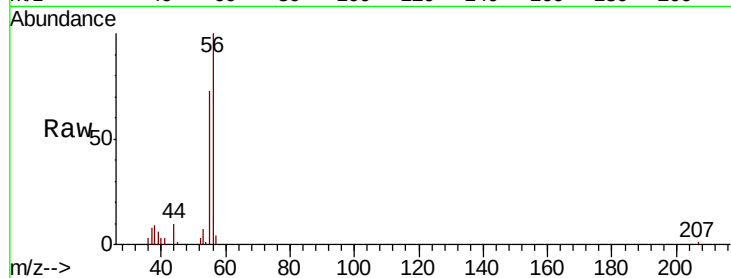
ClientSampleId :

Tot Ion: 56 Resp: 42610

Ion Ratio Lower Upper

56 100

55 70.1 58.6 88.0



#14

Acrylonitrile

Concen: 92.40 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

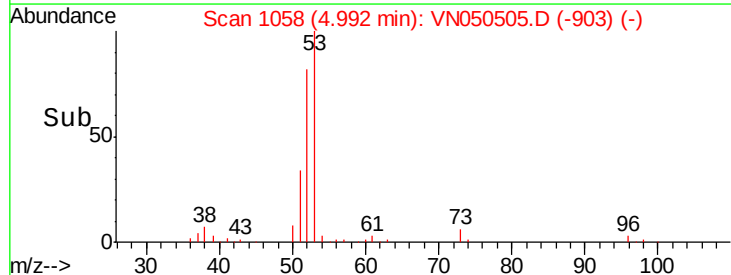
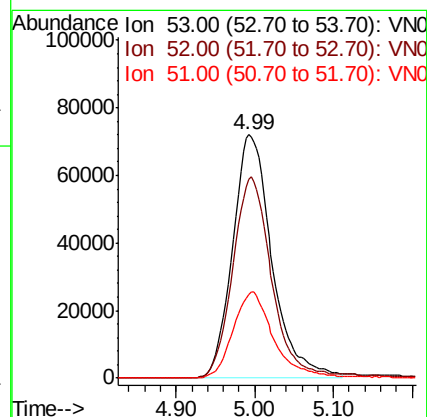
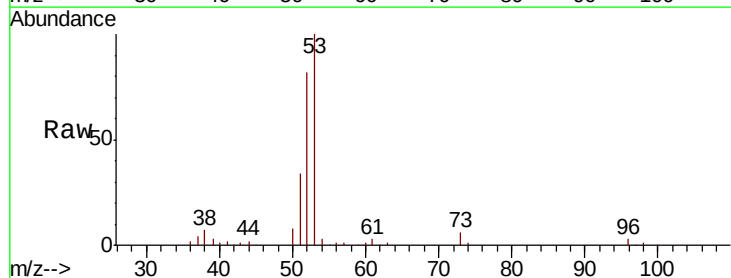
Tgt Ion: 53 Resp: 251116

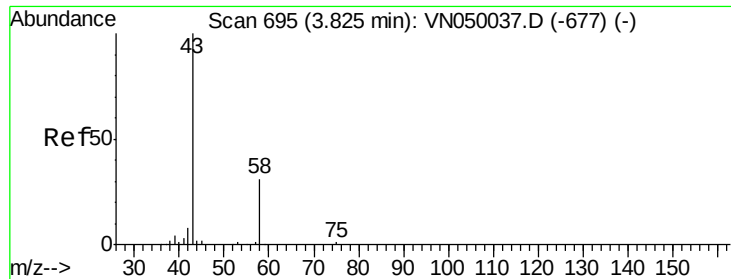
Ion Ratio Lower Upper

53 100

52 80.6 41.5 124.5

51 36.3 18.7 56.1





#15

Acetone

Concen: 102.48 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

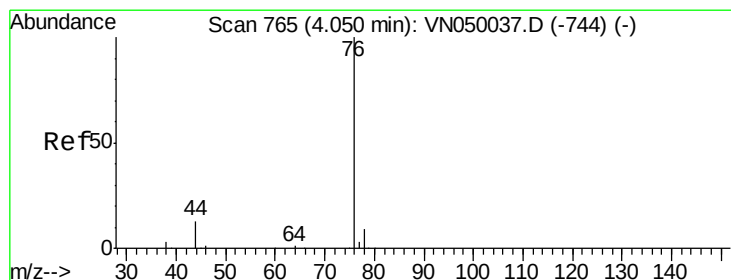
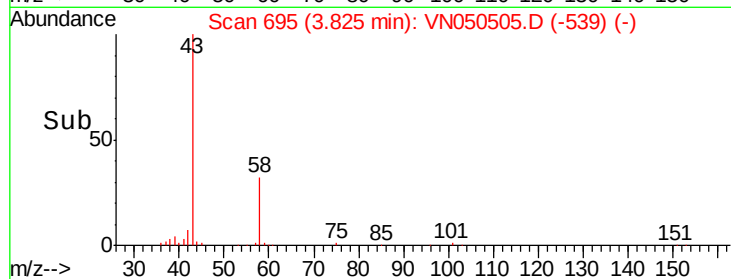
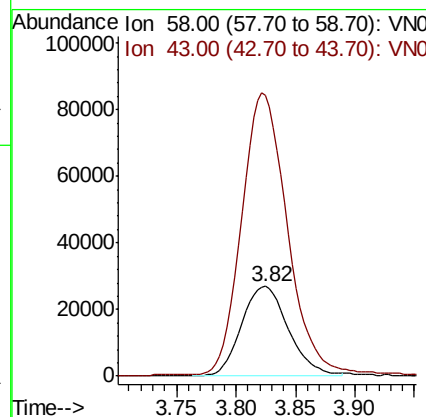
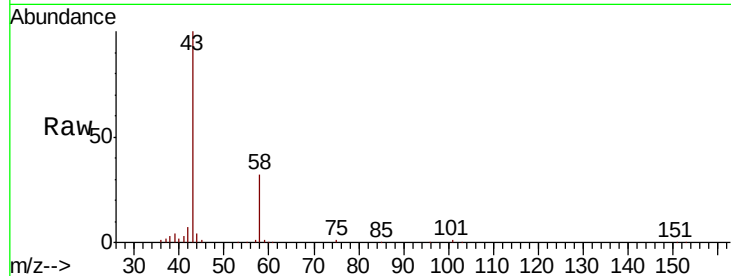
ClientSampleId :

Tot Ion: 58 Resp: 74011

Ion Ratio Lower Upper

58 100

43 310.1 252.0 378.0



#16

Carbon Disulfide

Concen: 18.17 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050505.D

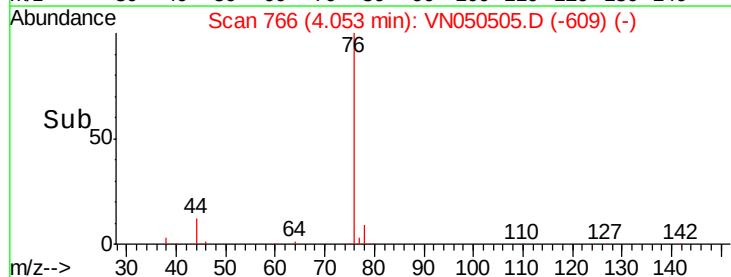
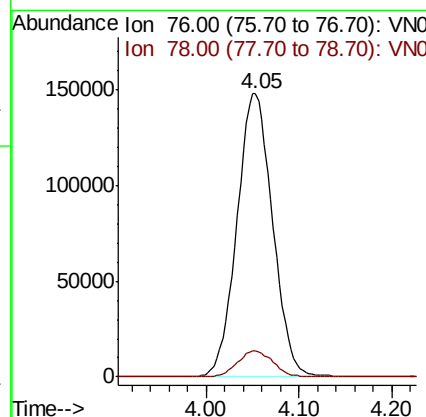
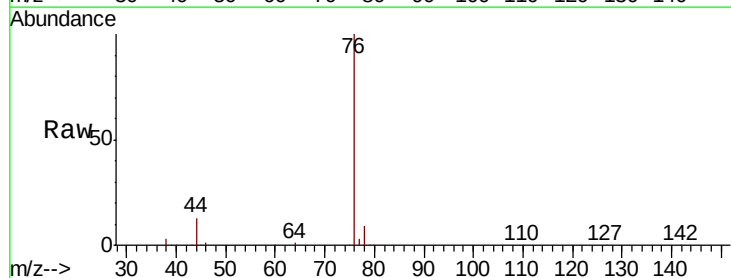
Acq: 10 Aug 2018 00:06

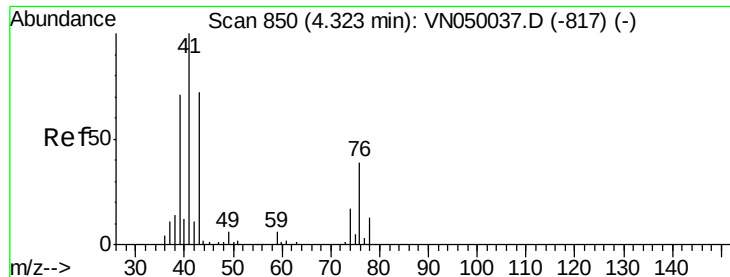
Tgt Ion: 76 Resp: 395433

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9





#17

Allvl chloride

Concen: 17.91 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampled :

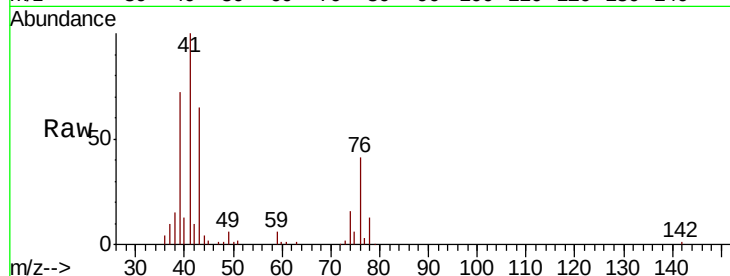
Tot Ion: 41 Resp: 201095

Ion Ratio Lower Upper

41 100

39 71.8 35.4 106.3

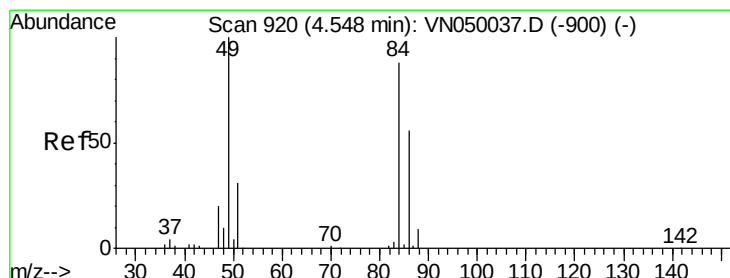
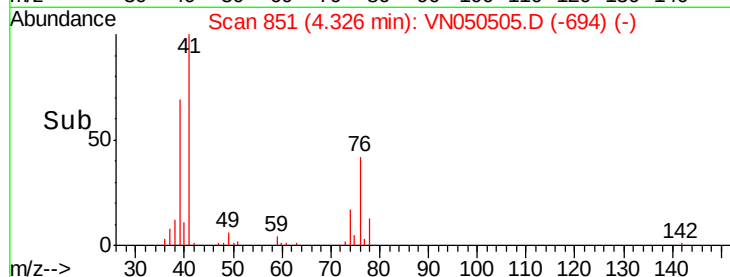
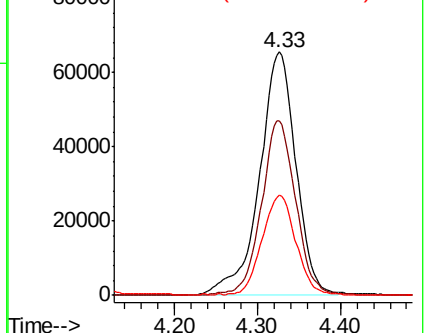
76 40.9 19.7 59.1



Abundance Ion 41.00 (40.70 to 41.70): VN050037.D (-817) (-)

Ion 39.00 (38.70 to 39.70): VN050037.D (-817) (-)

Ion 76.00 (75.70 to 76.70): VN050037.D (-817) (-)



#18

Methylene Chloride

Concen: 19.70 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Tgt Ion: 84 Resp: 161613

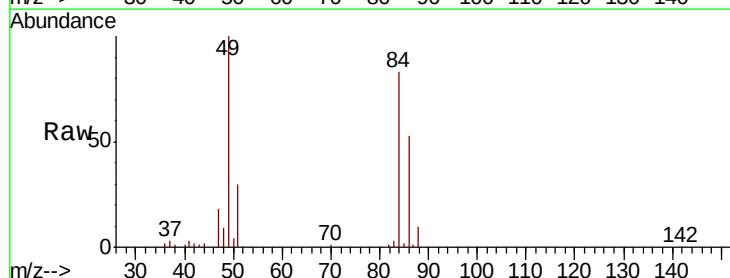
Ion Ratio Lower Upper

84 100

49 120.0 95.1 142.7

51 36.5 28.8 43.2

86 64.0 52.3 78.5

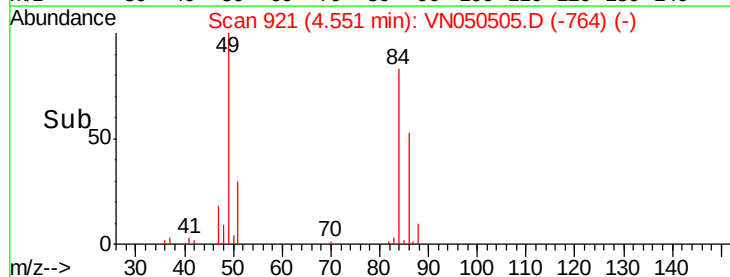
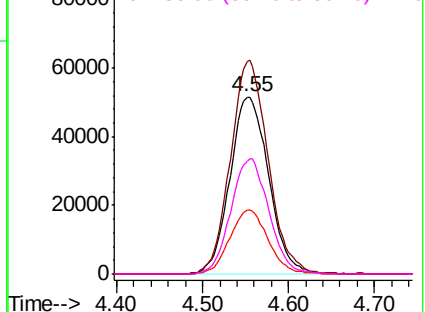


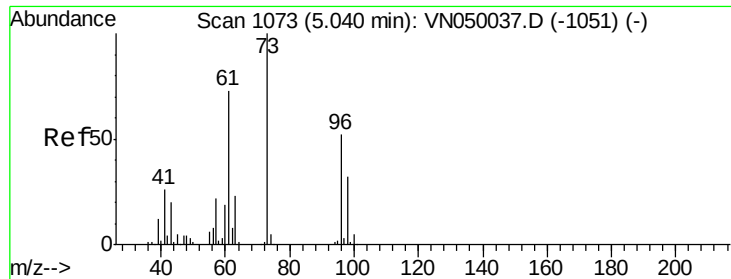
Abundance Ion 84.00 (83.70 to 84.70): VN050037.D (-900) (-)

Ion 49.00 (48.70 to 49.70): VN050037.D (-900) (-)

Ion 51.00 (50.70 to 51.70): VN050037.D (-900) (-)

Ion 86.00 (85.70 to 86.70): VN050037.D (-900) (-)





#19

trans-1,2-Dichloroethene

Concen: 19.30 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. 0.01 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampled :

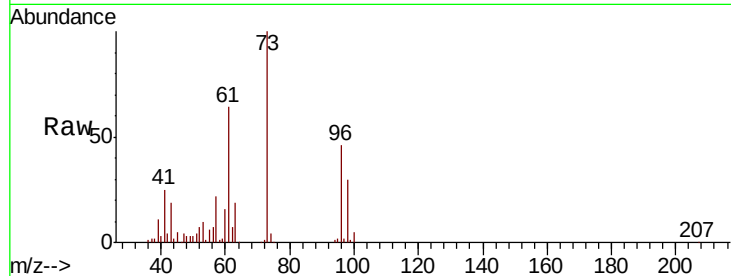
Tot Ion: 96 Resp: 146920

Ion Ratio Lower Upper

96 100

61 138.9 112.1 168.1

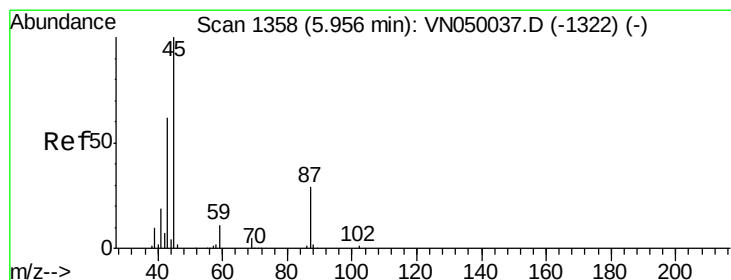
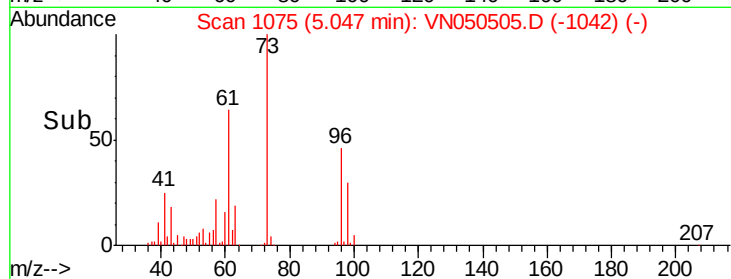
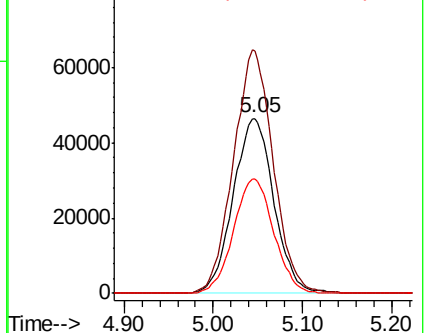
98 65.5 51.3 76.9



Abundance Ion 96.00 (95.70 to 96.70): VN050037.D (-1051) (-)

Ion 61.00 (60.70 to 61.70): VN050037.D (-1051) (-)

Ion 98.00 (97.70 to 98.70): VN050037.D (-1051) (-)



#20

Diisopropyl ether

Concen: 20.36 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Tgt Ion: 45 Resp: 468809

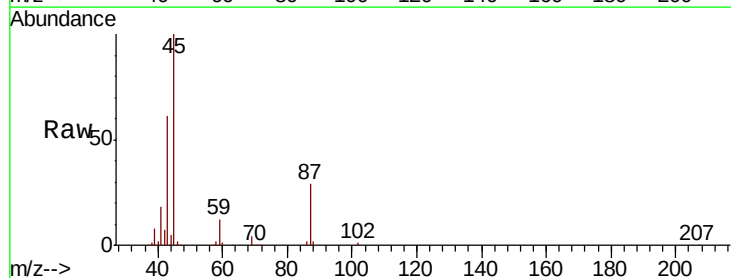
Ion Ratio Lower Upper

45 100

43 59.9 46.6 70.0

87 28.7 22.3 33.5

59 12.2 9.5 14.3

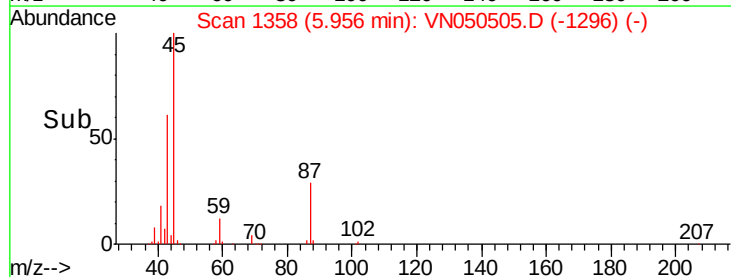
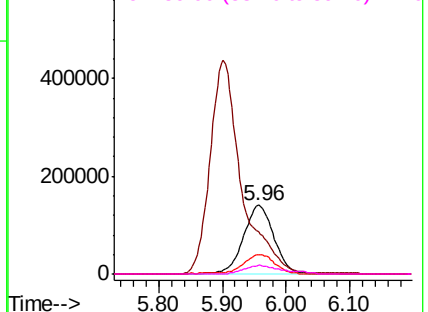


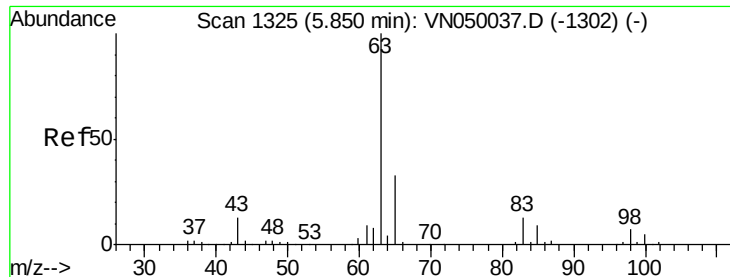
Abundance Ion 45.00 (44.70 to 45.70): VN050037.D (-1322) (-)

Ion 43.00 (42.70 to 43.70): VN050037.D (-1322) (-)

Ion 87.00 (86.70 to 87.70): VN050037.D (-1322) (-)

Ion 59.00 (58.70 to 59.70): VN050037.D (-1322) (-)

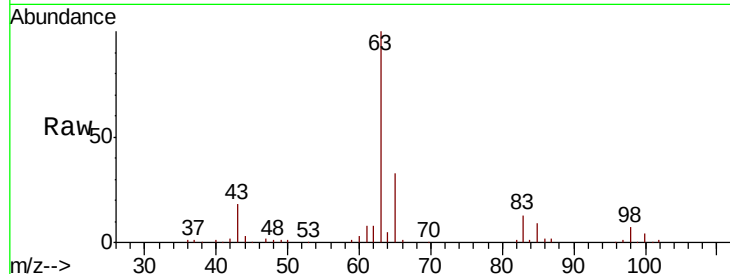




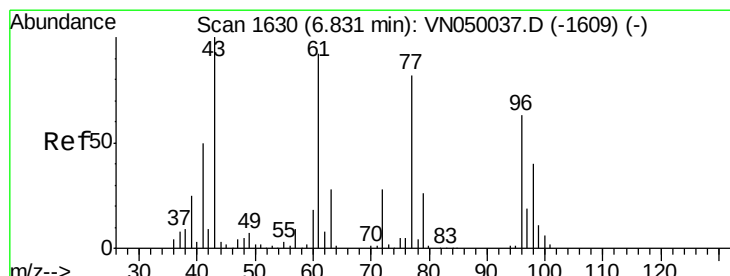
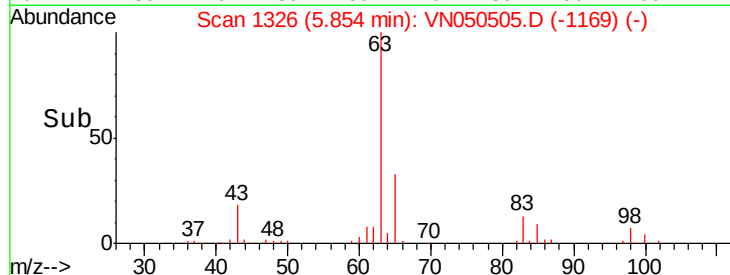
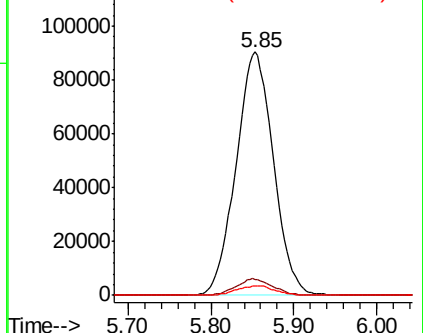
#21  
 1,1-Dichloroethane  
 Concen: 19.54 ug/l  
 RT: 5.85 min Scan# 1326  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 6.6   | 3.5   | 10.6  |
| 100     | 3.9   | 2.3   | 6.8   |

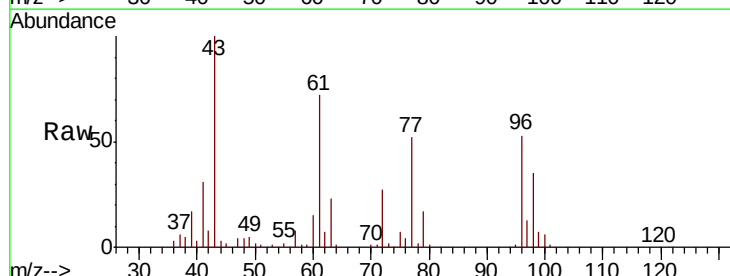


Abundance Ion 63.00 (62.70 to 63.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0  
 Ion 100.00 (99.70 to 100.70): VN0

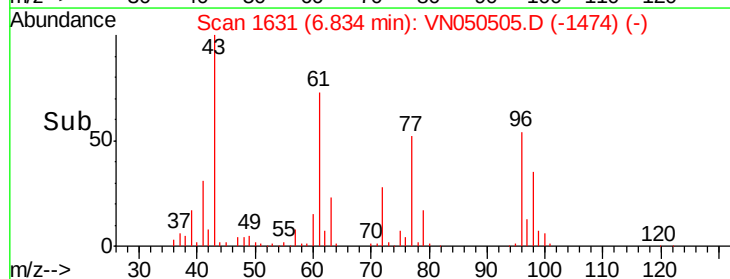
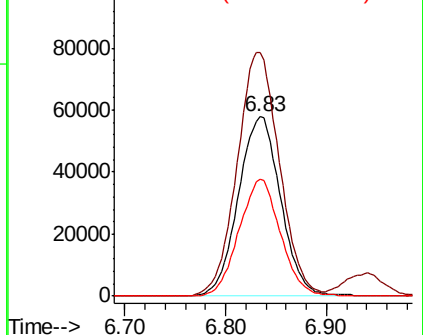


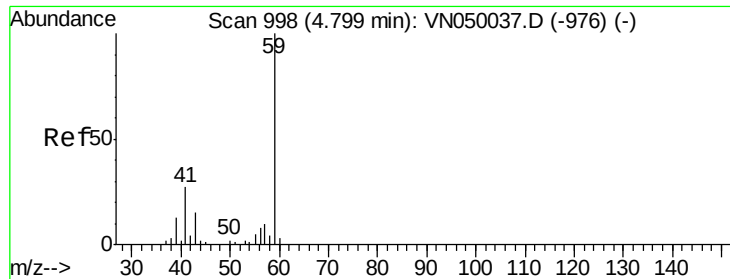
#22  
 cis-1,2-Dichloroethene  
 Concen: 19.90 ug/l  
 RT: 6.83 min Scan# 1631  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 136.1 | 114.2 | 171.2 |
| 98      | 63.9  | 51.7  | 77.5  |



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

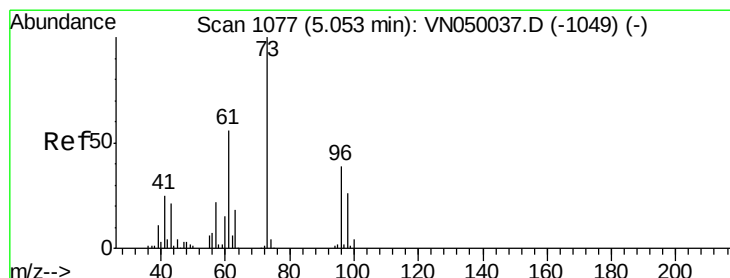
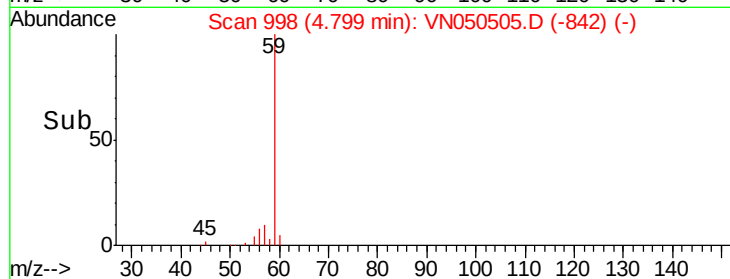
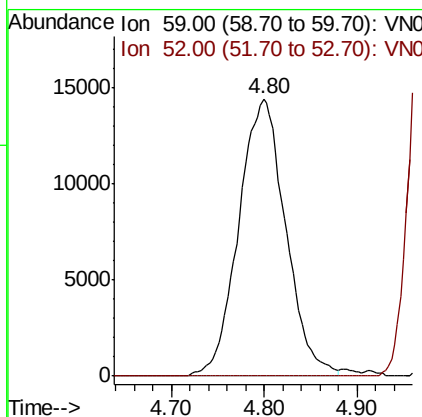
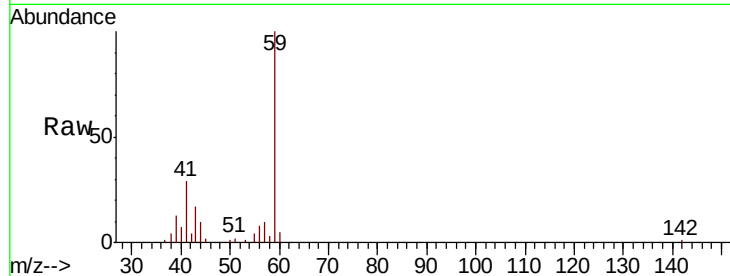




#23  
 tert-Butyl Alcohol  
 Concen: 83.52 ug/l  
 RT: 4.80 min Scan# 998  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

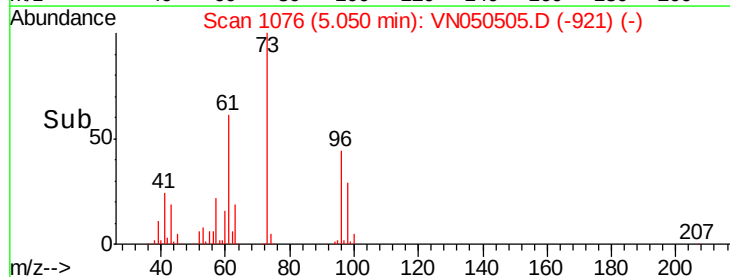
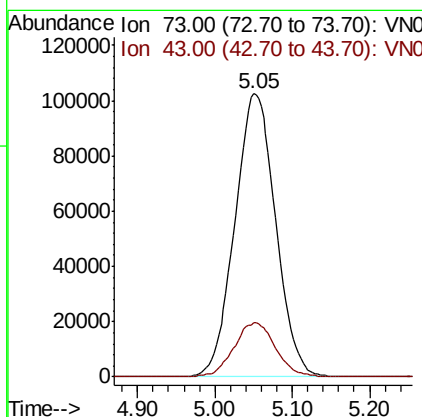
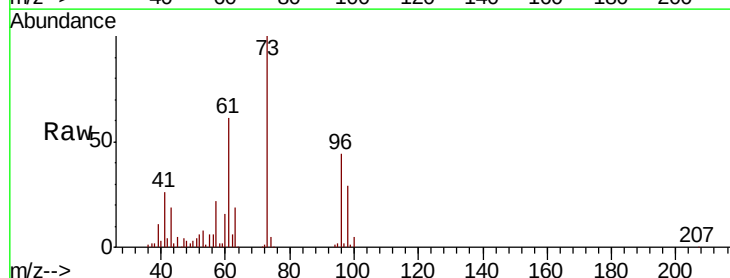
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 59 Resp: 50715  
 Ion Ratio Lower Upper  
 59 100  
 52 0.0 0.1 0.1#

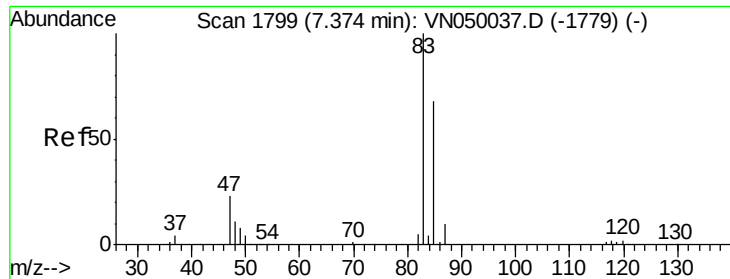


#24  
 Methyl tert-Butyl Ether  
 Concen: 19.39 ug/l  
 RT: 5.05 min Scan# 1076  
 Delta R.T. -0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion: 73 Resp: 376043  
 Ion Ratio Lower Upper  
 73 100  
 43 19.3 15.5 23.3



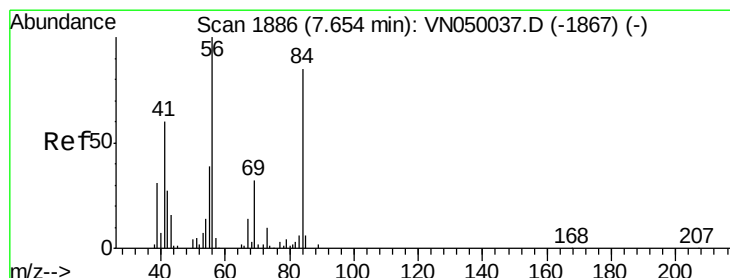
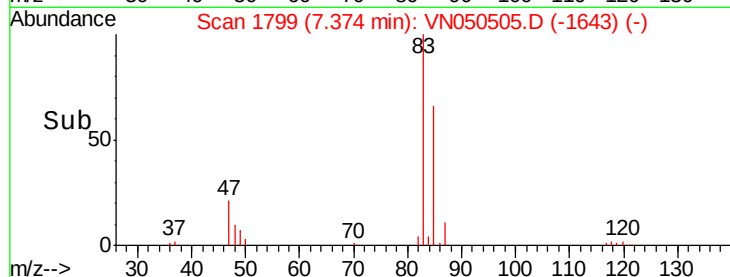
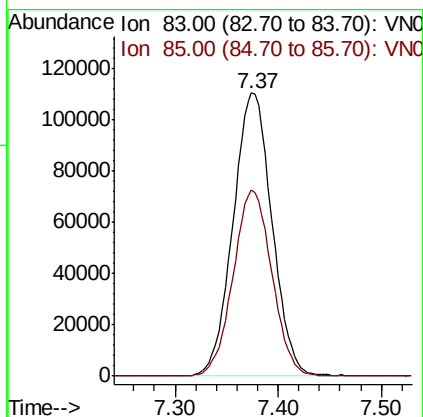
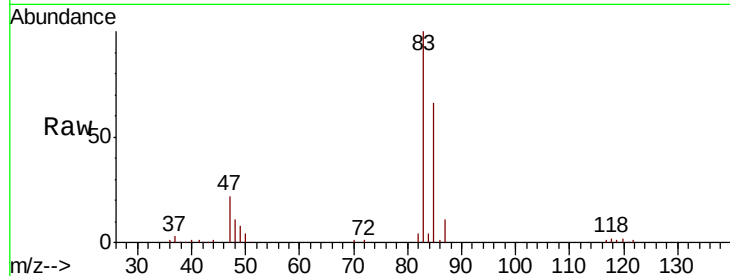




#25  
Chloroform  
Concen: 19.82 ug/l  
RT: 7.37 min Scan# 1799  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

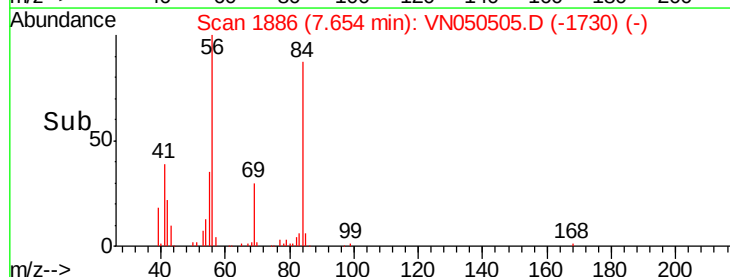
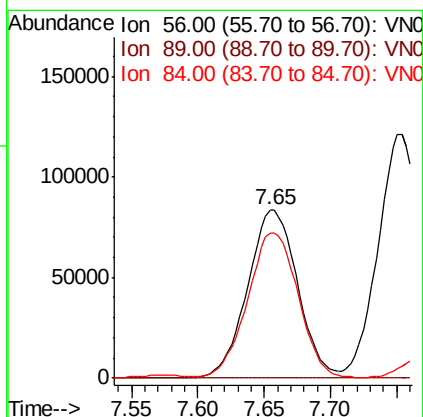
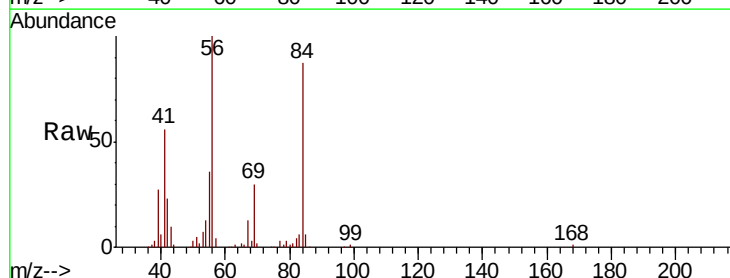
Instrument :  
MSVOA\_N  
ClientSampled :

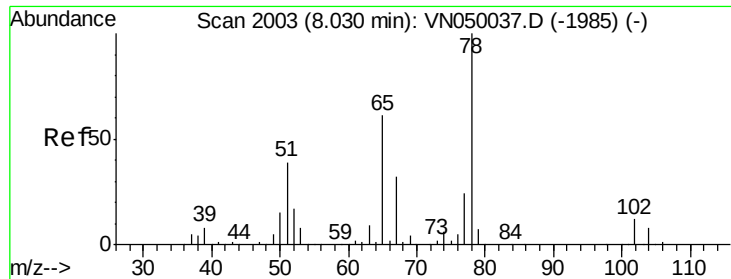
Tot Ion: 83 Resp: 290479  
Ion Ratio Lower Upper  
83 100  
85 65.7 52.1 78.1



#26  
Cyclohexane  
Concen: 19.06 ug/l  
RT: 7.65 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 56 Resp: 219311  
Ion Ratio Lower Upper  
56 100  
89 0.0 3.0 4.4#  
84 87.8 69.8 104.8

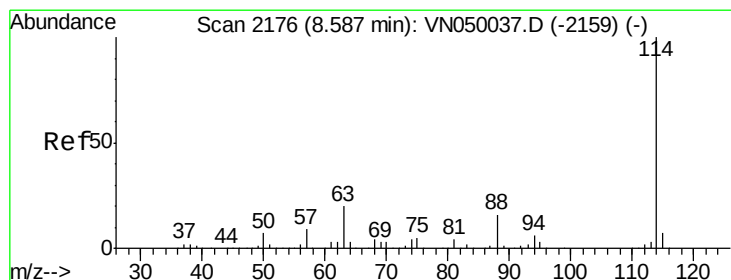
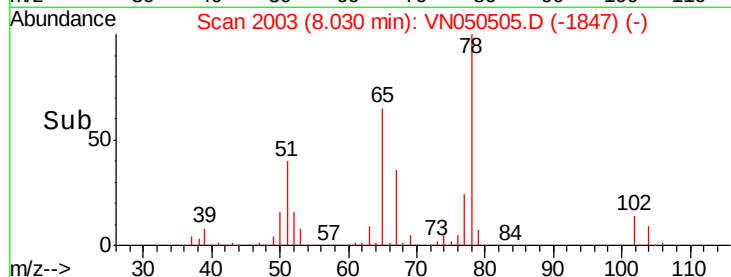
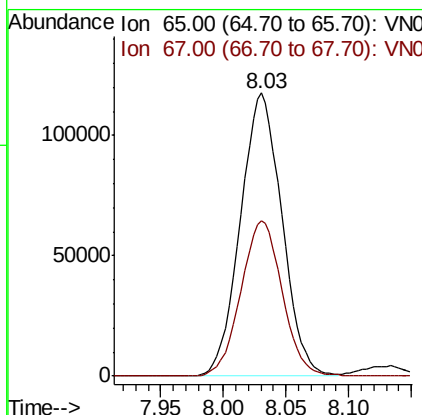
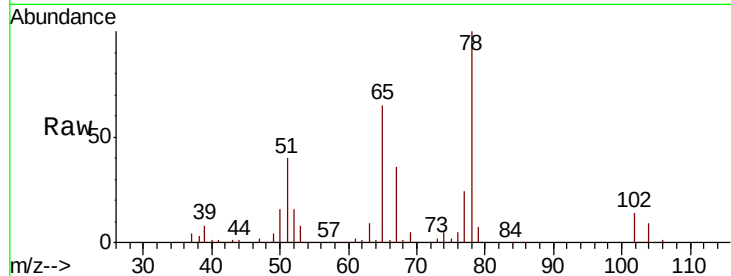




#27  
 1,2-Dichloroethane-d4  
 Concen: 29.93 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

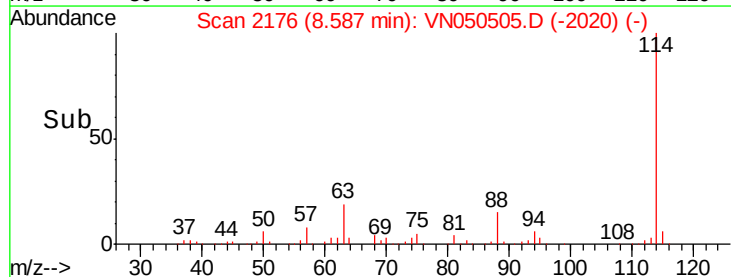
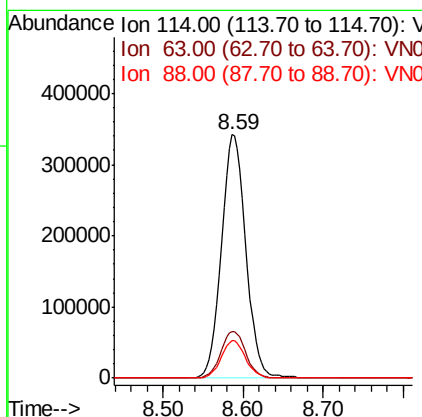
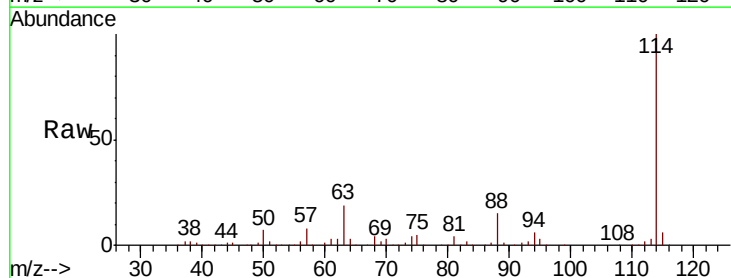
Instrument :  
 MSVOA\_N  
 ClientSampleId :

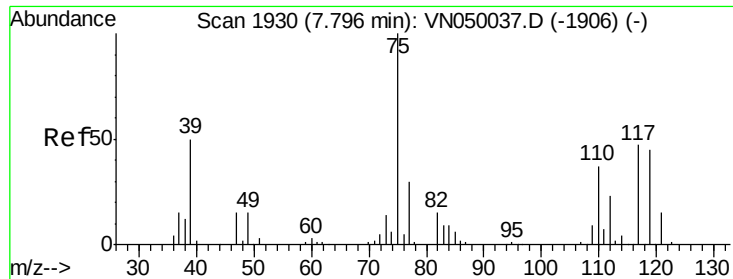
Tot Ion: 65 Resp: 271287  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 42.7 64.1



#28  
 1,4-Difluorobenzene  
 Concen: 30.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion: 114 Resp: 719124  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 16.2 24.2  
 88 15.2 12.3 18.5

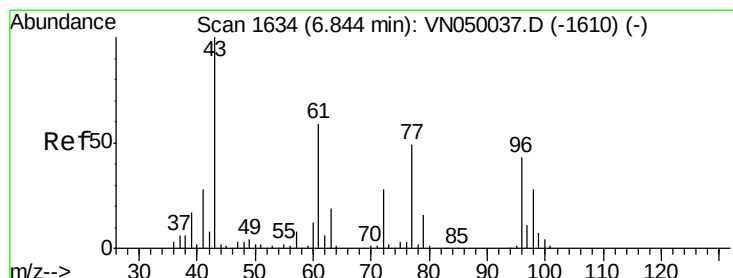
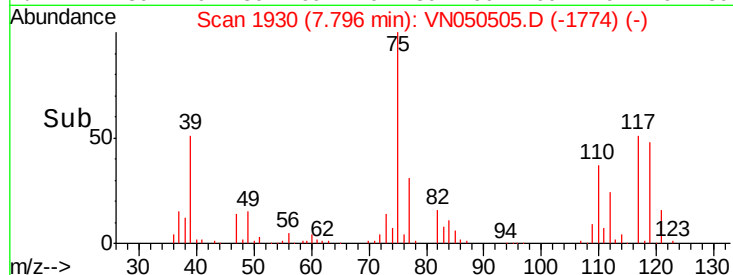
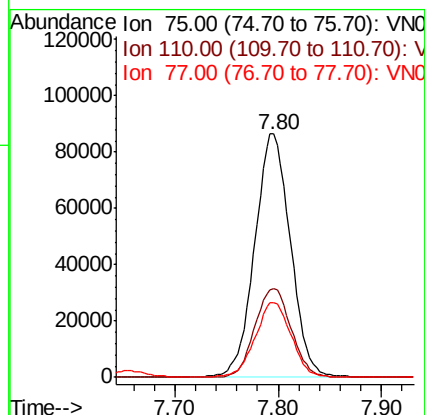
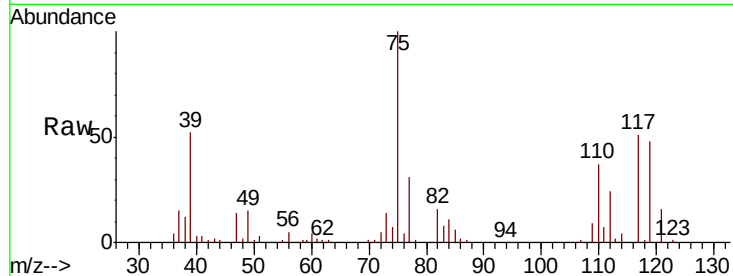




#29  
 1,1-Dichloropropene  
 Concen: 18.60 ug/l  
 RT: 7.80 min Scan# 1930  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

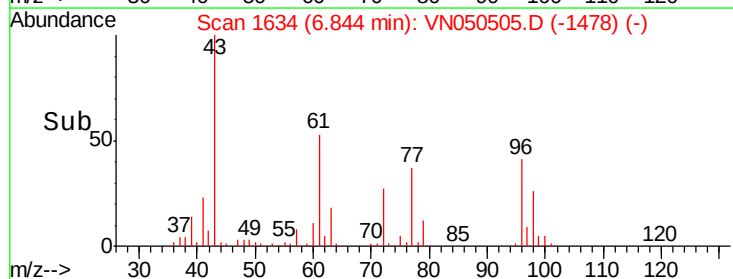
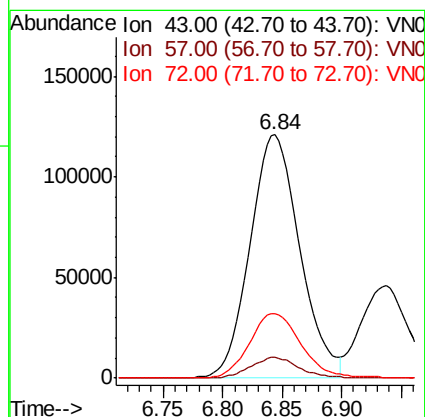
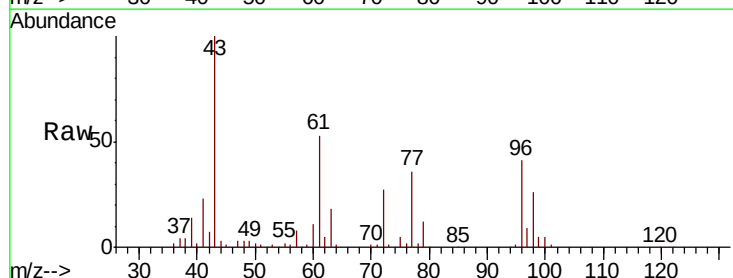
Instrument :  
 MSVOA\_N  
 ClientSampled :

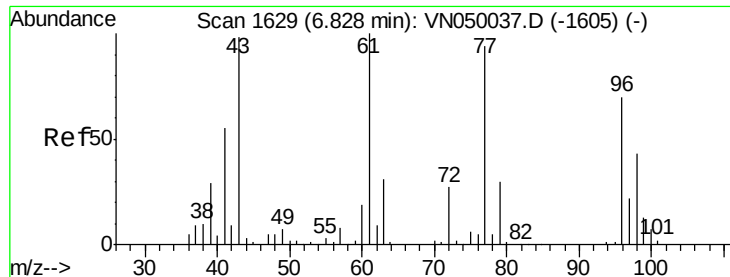
| Tot Ion   | 75    | Resp  | 207617 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 37.1  | 0.0   | 73.2   |
| 77        | 31.1  | 0.0   | 62.0   |



#30  
 2-Butanone  
 Concen: 99.83 ug/l  
 RT: 6.84 min Scan# 1634  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

| Tgt Ion   | 43    | Resp  | 349620 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 57        | 8.3   | 6.8   | 10.2   |
| 72        | 27.5  | 21.4  | 32.0   |

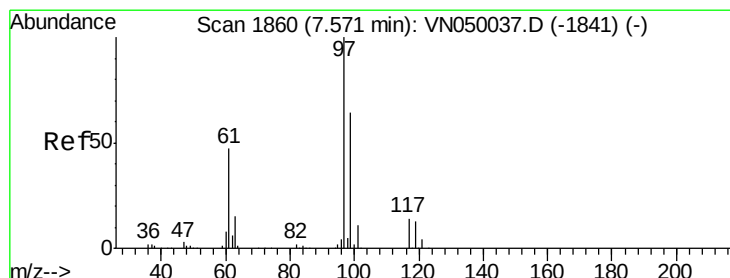
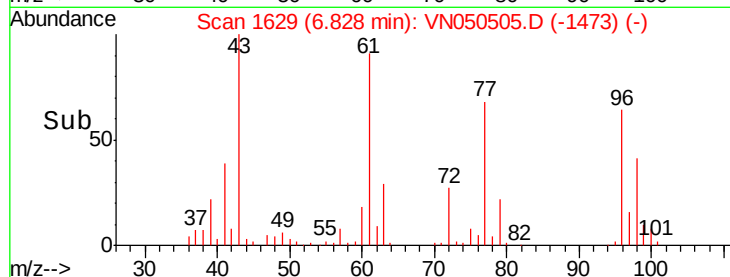
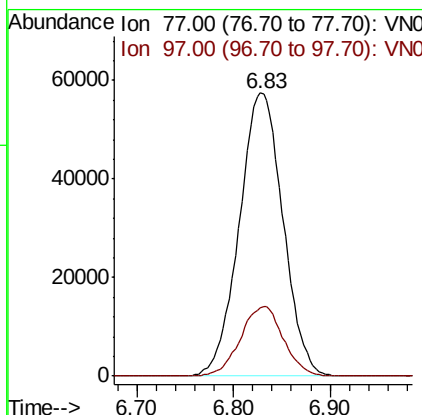
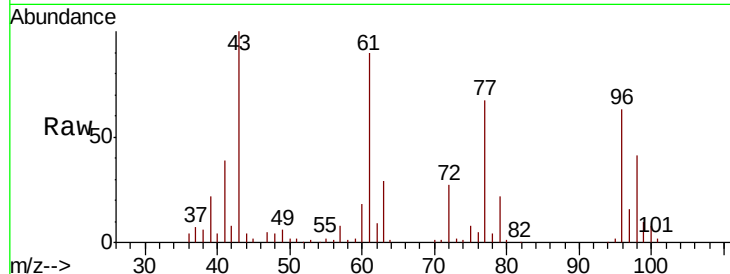




#31  
 2,2-Dichloropropane  
 Concen: 14.61 ug/l  
 RT: 6.83 min Scan# 1629  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

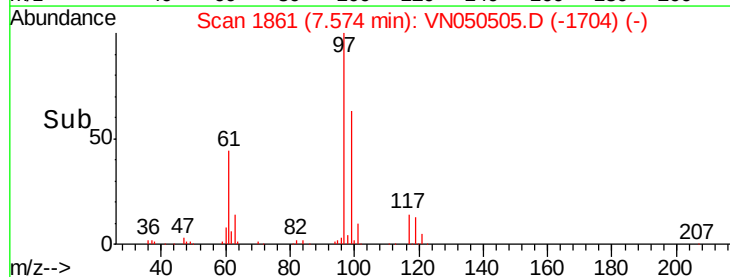
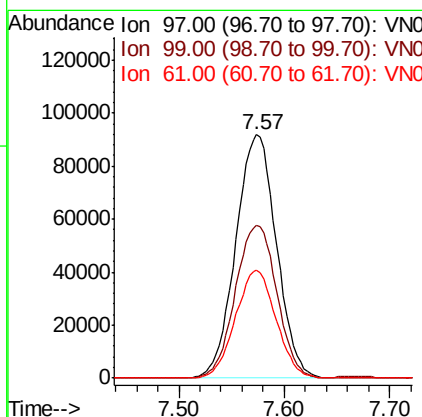
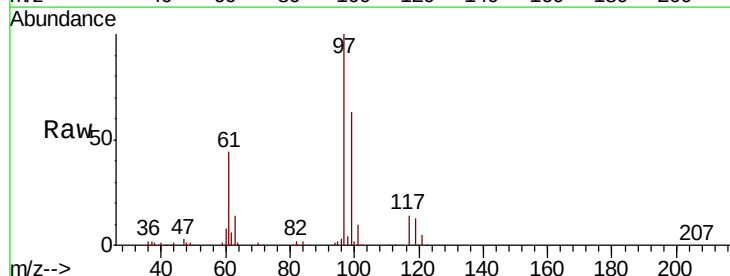
Instrument :  
 MSVOA\_N  
 ClientSampleId :

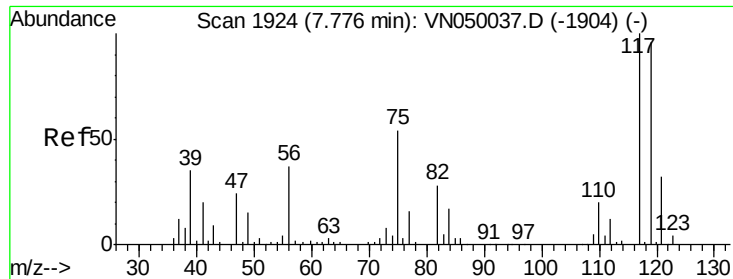
Tot Ion: 77 Resp: 180186  
 Ion Ratio Lower Upper  
 77 100  
 97 24.1 18.9 28.3



#32  
 1,1,1-Trichloroethane  
 Concen: 18.76 ug/l  
 RT: 7.57 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion: 97 Resp: 246454  
 Ion Ratio Lower Upper  
 97 100  
 99 63.9 51.2 76.8  
 61 44.3 35.3 52.9

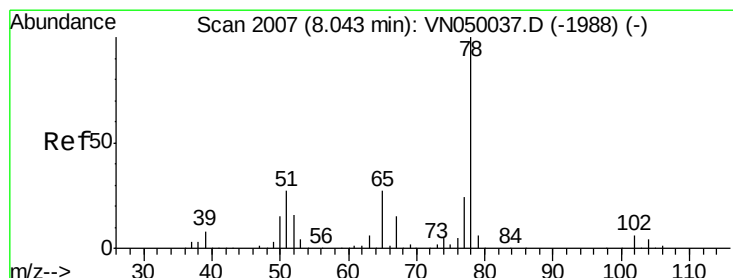
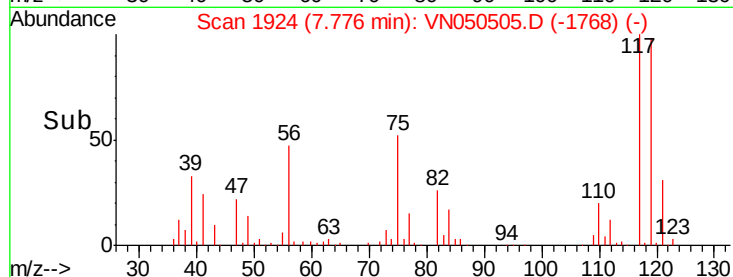
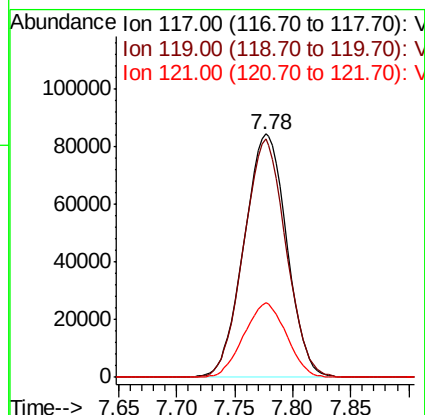
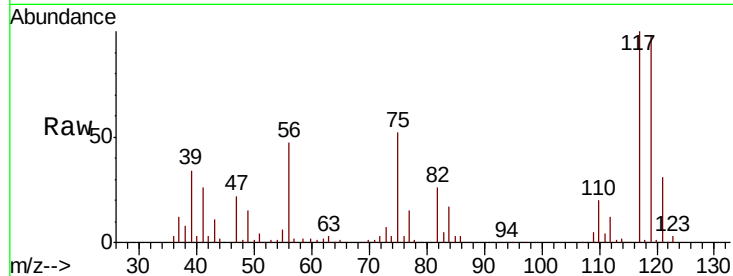




#33  
Carbon Tetrachloride  
Concen: 18.46 ug/l  
RT: 7.78 min Scan# 1924  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

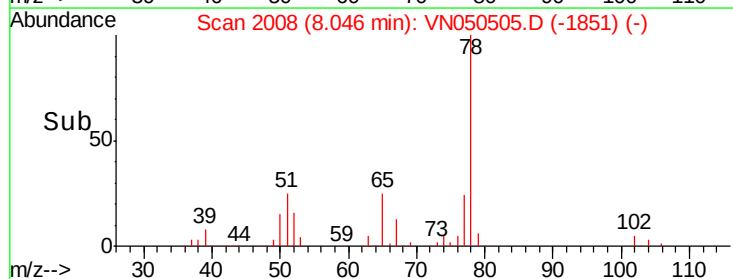
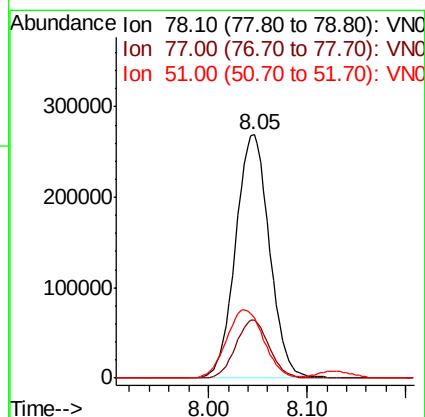
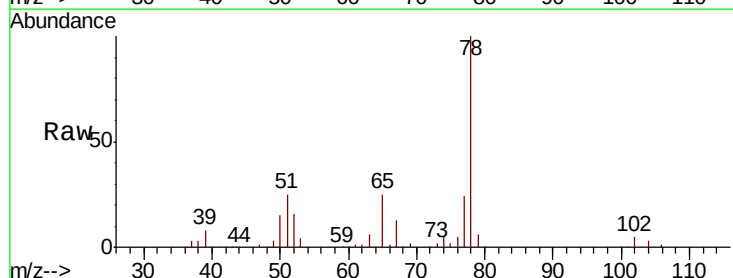
Instrument :  
MSVOA\_N  
ClientSampleId :

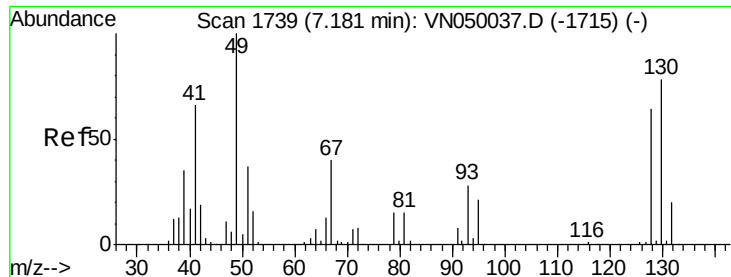
Tot Ion:117 Resp: 216166  
Ion Ratio Lower Upper  
117 100  
119 97.8 76.9 115.3  
121 30.6 24.4 36.6



#34  
Benzene  
Concen: 18.93 ug/l  
RT: 8.05 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 78 Resp: 641543  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.1 28.7  
51 24.7 21.0 31.4

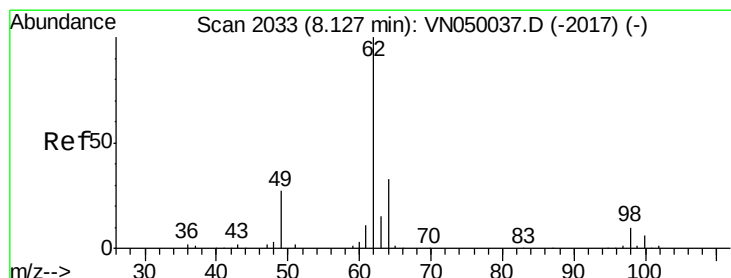
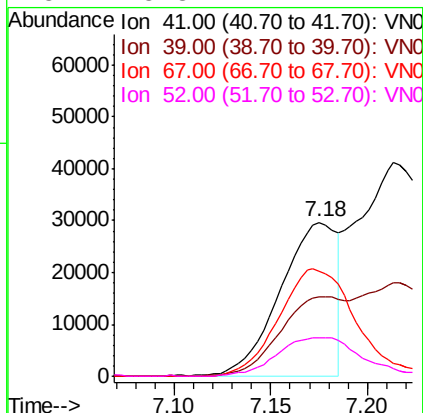
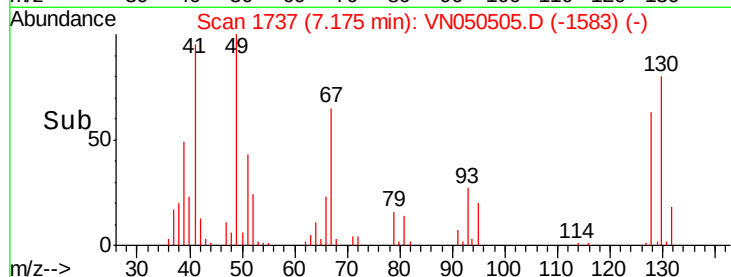
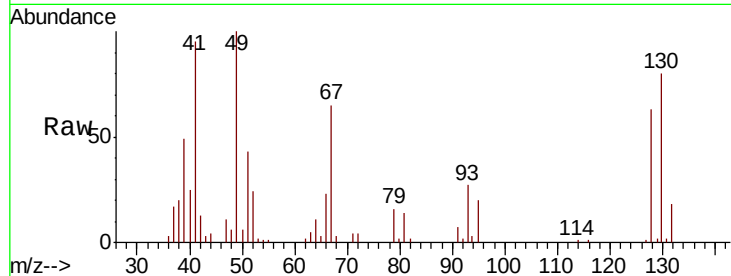




#35  
Methacrylonitrile  
Concen: 15.21 ug/l  
RT: 7.18 min Scan# 1737  
Delta R.T. -0.01 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

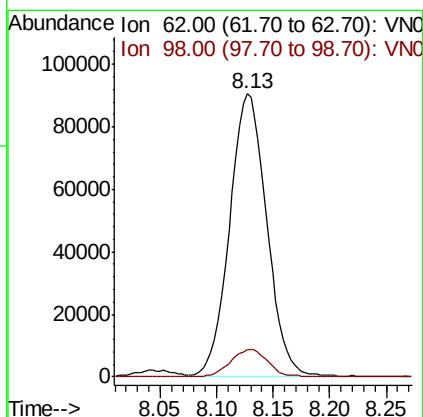
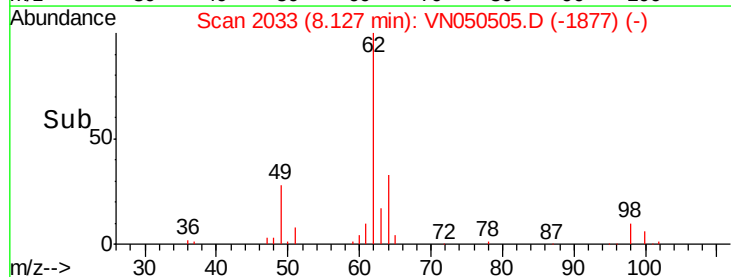
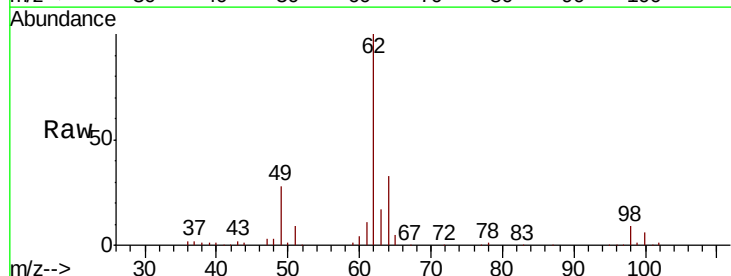
Instrument :  
MSVOA\_N  
ClientSampled :

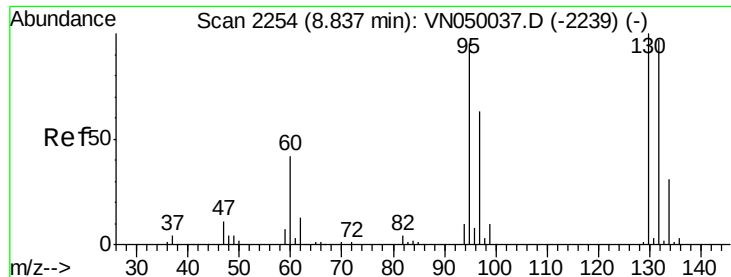
Tot Ion: 41 Resp: 60630  
Ion Ratio Lower Upper  
41 100  
39 51.2 27.6 82.7  
67 67.9 35.1 105.5  
52 25.3 14.1 42.4



#36  
1,2-Dichloroethane  
Concen: 18.40 ug/l  
RT: 8.13 min Scan# 2033  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 62 Resp: 204804  
Ion Ratio Lower Upper  
62 100  
98 9.9 7.8 11.6

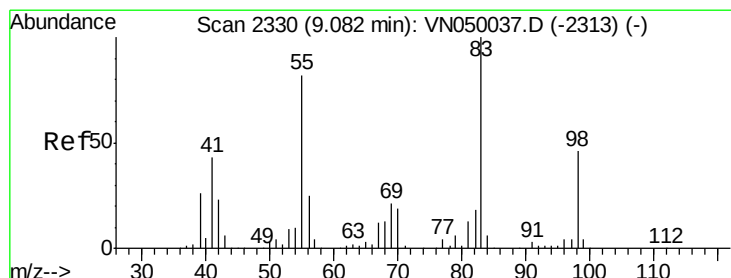
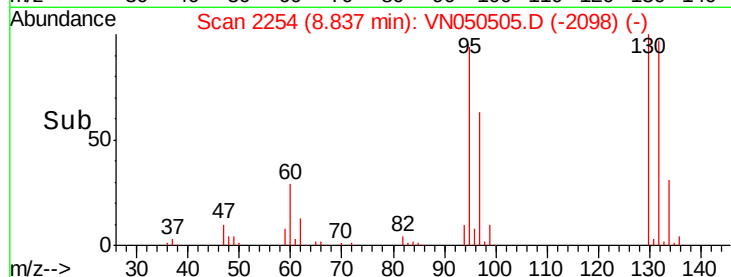
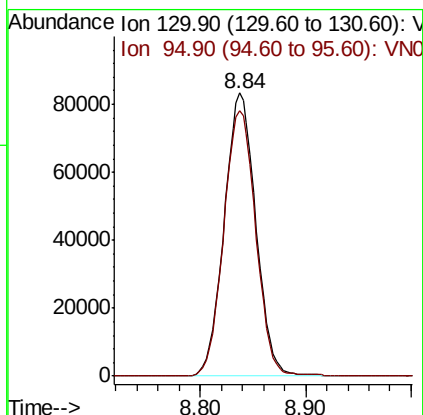
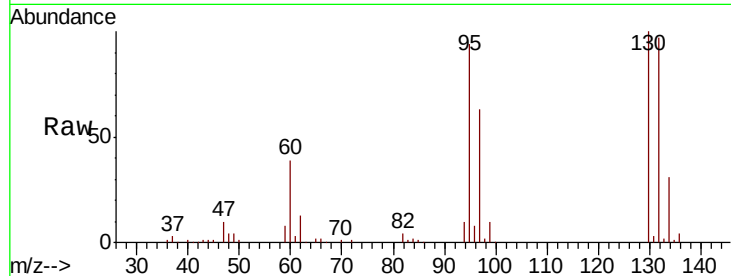




#37  
 Trichloroethene  
 Concen: 19.43 ug/l  
 RT: 8.84 min Scan# 2254  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

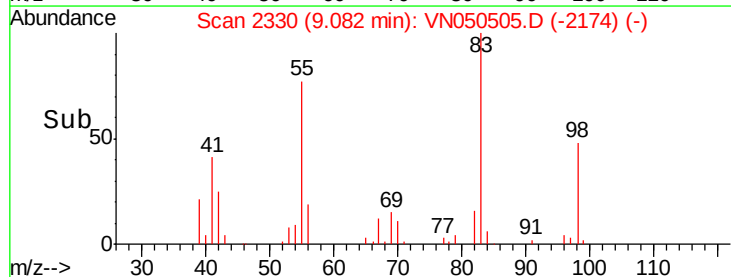
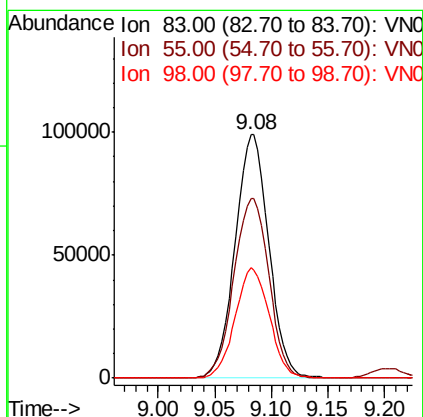
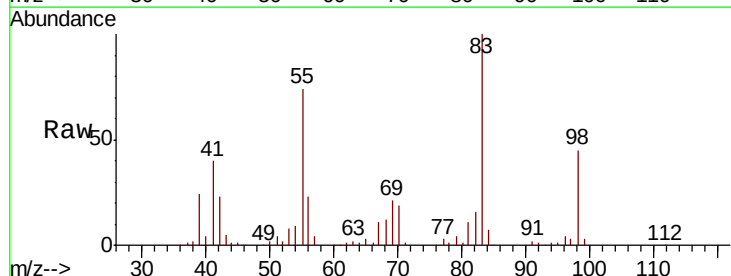
Instrument :  
 MSVOA\_N  
 ClientSampled :

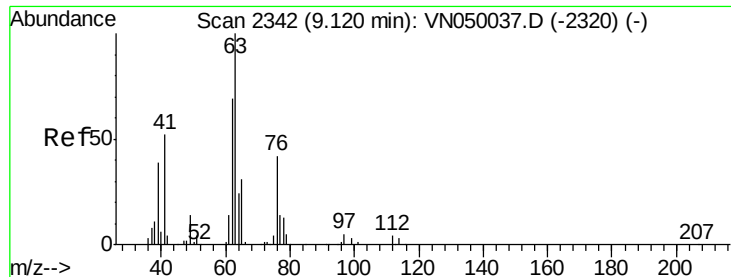
Tot Ion:130 Resp: 172694  
 Ion Ratio Lower Upper  
 130 100  
 95 93.8 79.7 119.5



#38  
 Methylcyclohexane  
 Concen: 17.50 ug/l  
 RT: 9.08 min Scan# 2330  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion: 83 Resp: 205901  
 Ion Ratio Lower Upper  
 83 100  
 55 76.7 39.3 117.8  
 98 45.9 23.0 69.0





#39

1,2-Dichloropropane

Concen: 18.99 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

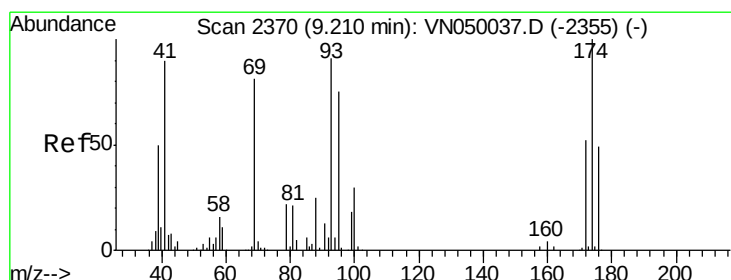
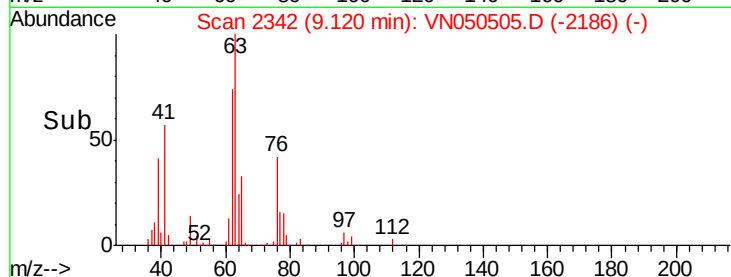
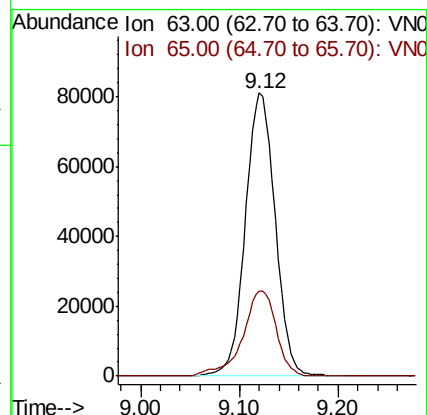
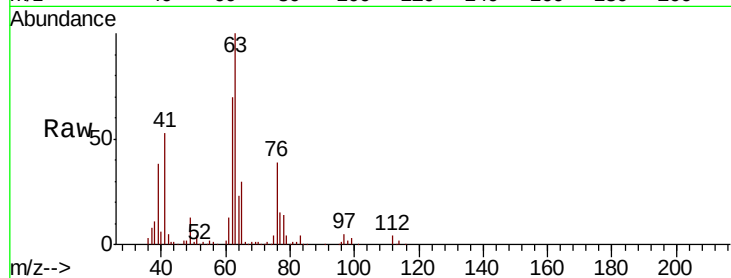
ClientSampled :

Tot Ion: 63 Resp: 169590

Ion Ratio Lower Upper

63 100

65 30.1 24.2 36.2



#40

Dibromomethane

Concen: 18.57 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

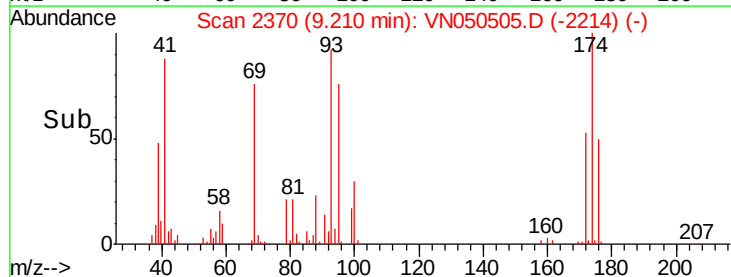
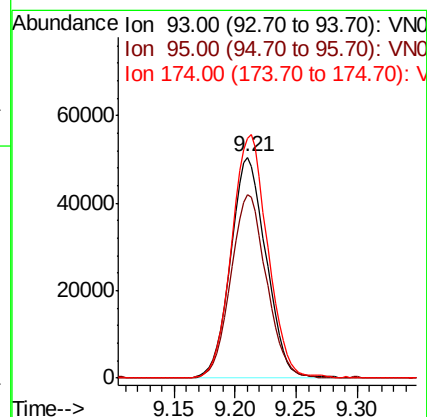
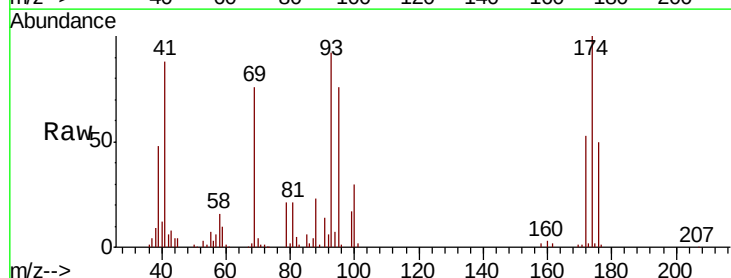
Tgt Ion: 93 Resp: 102456

Ion Ratio Lower Upper

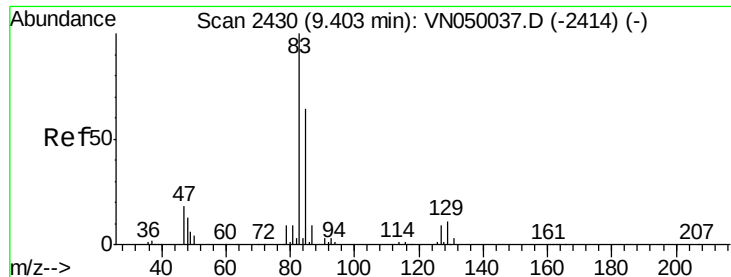
93 100

95 83.4 0.0 165.6

174 111.8 0.0 223.2







#41

Bromodichloromethane

Concen: 18.53 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :  
MSVOA\_N  
ClientSampleId :

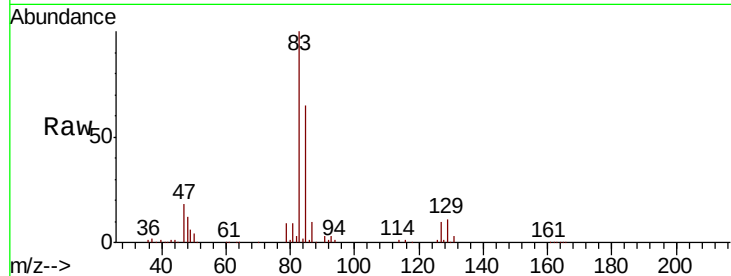
Tot Ion: 83 Resp: 215730

Ion Ratio Lower Upper

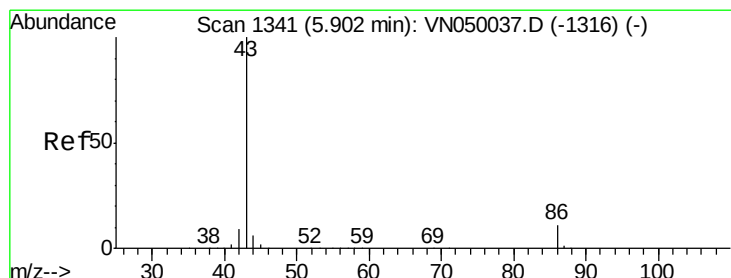
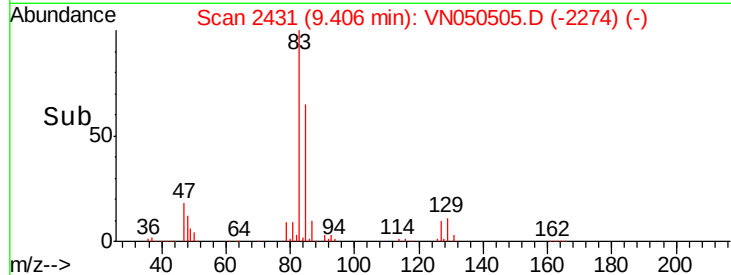
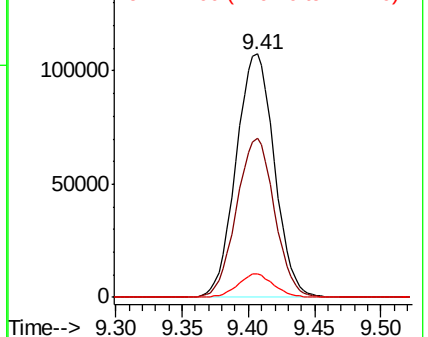
83 100

85 65.3 52.6 78.8

127 9.6 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 85.00 (84.70 to 85.70): VN0  
Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 90.74 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050505.D

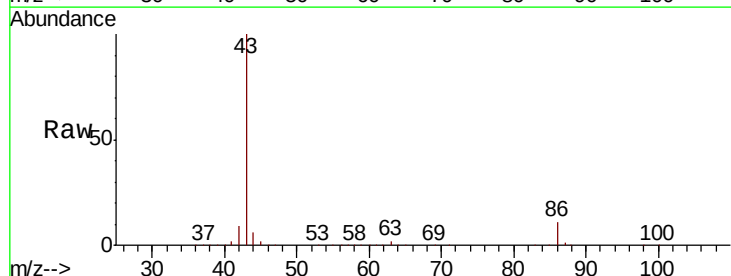
Acq: 10 Aug 2018 00:06

Tgt Ion: 43 Resp: 1495398

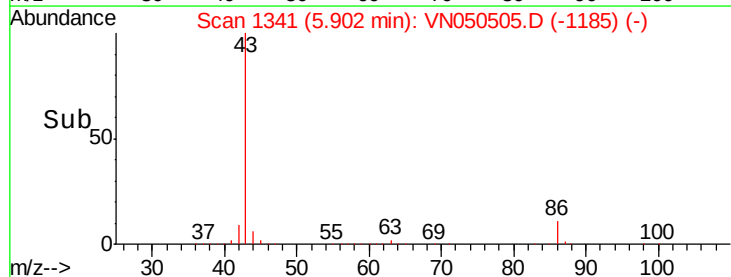
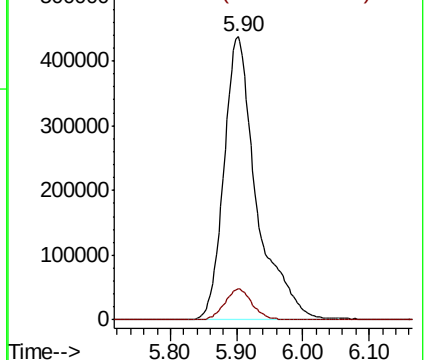
Ion Ratio Lower Upper

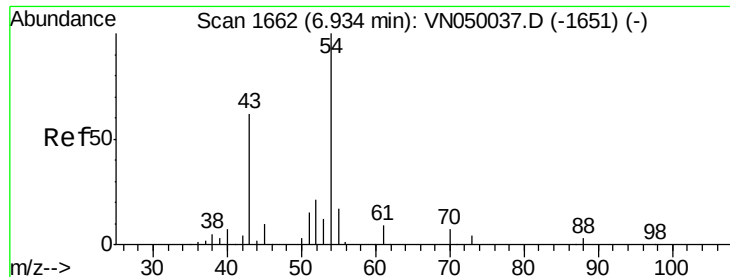
43 100

86 9.3 7.3 10.9



Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 86.00 (85.70 to 86.70): VN0

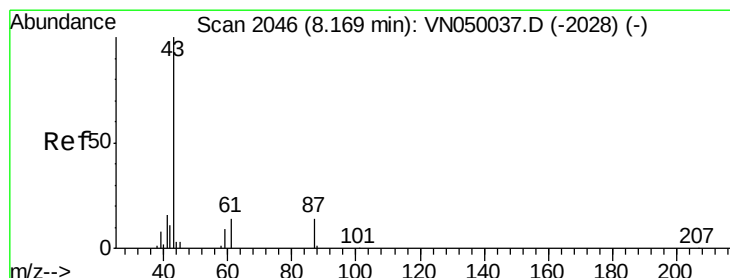
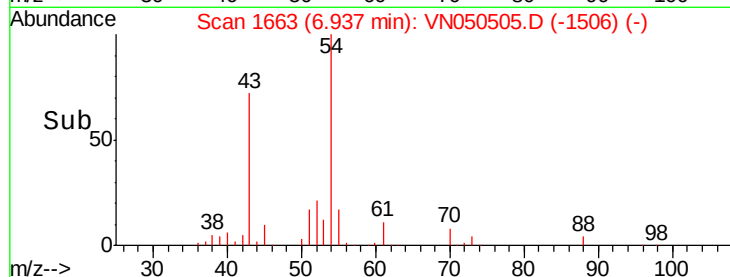
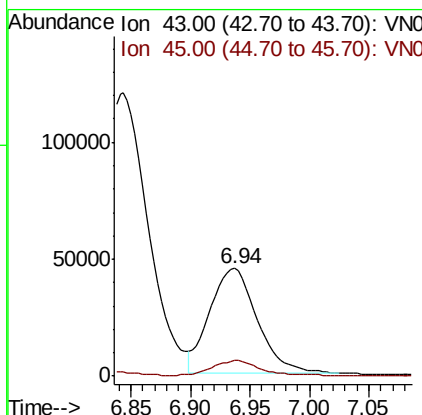
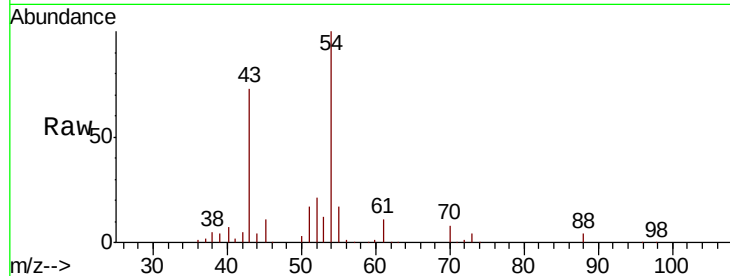




#43  
Ethyl Acetate  
Concen: 17.03 ug/l  
RT: 6.94 min Scan# 1663  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

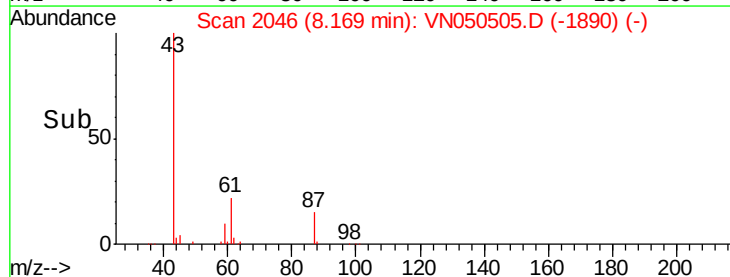
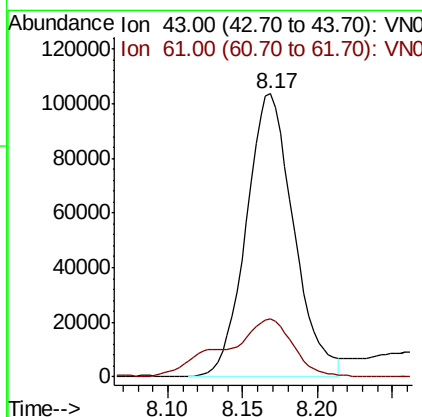
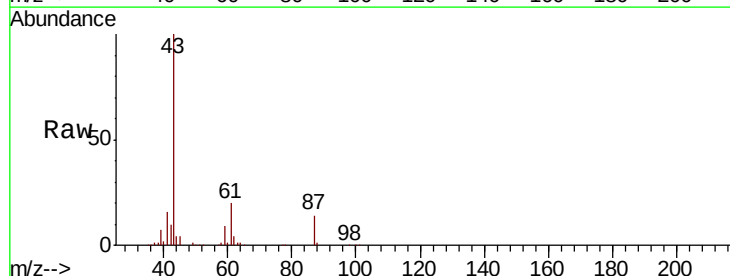
Instrument :  
MSVOA\_N  
ClientSampled :

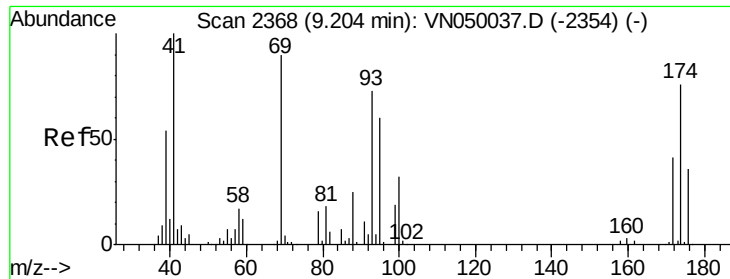
Tot Ion: 43 Resp: 124567  
Ion Ratio Lower Upper  
43 100  
45 14.5 13.0 19.6



#44  
Isopropyl Acetate  
Concen: 16.80 ug/l  
RT: 8.17 min Scan# 2046  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 43 Resp: 227569  
Ion Ratio Lower Upper  
43 100  
61 29.0 16.4 24.6#

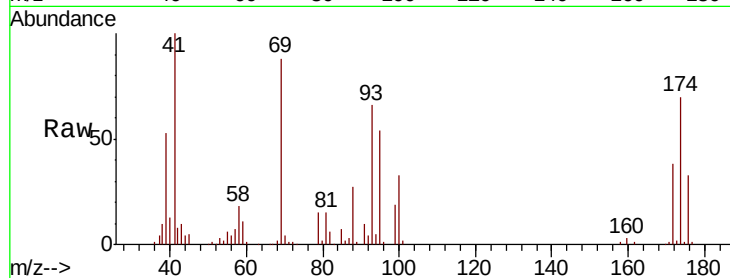




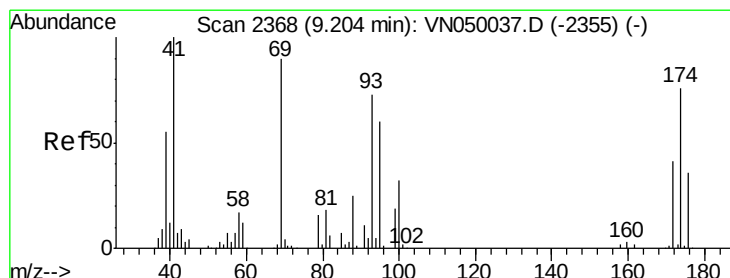
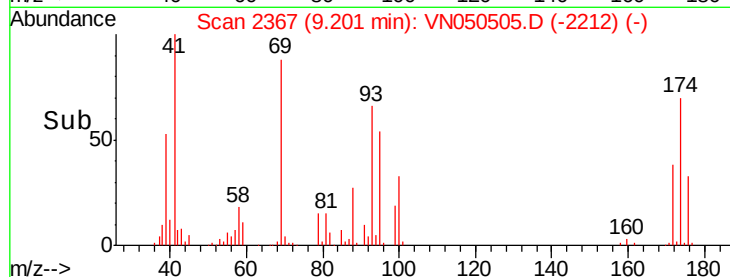
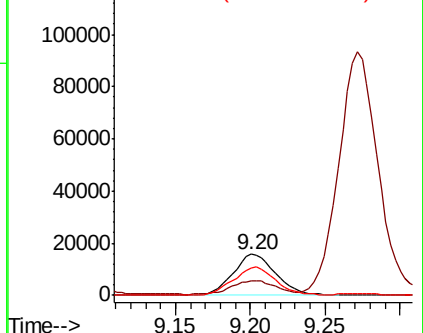
#45  
 1,4-Dioxane  
 Concen: 353.42 ug/l  
 RT: 9.20 min Scan# 2367  
 Delta R.T. -0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 88 Resp: 31505  
 Ion Ratio Lower Upper  
 88 100  
 43 33.2 26.9 40.3  
 58 68.1 53.6 80.4

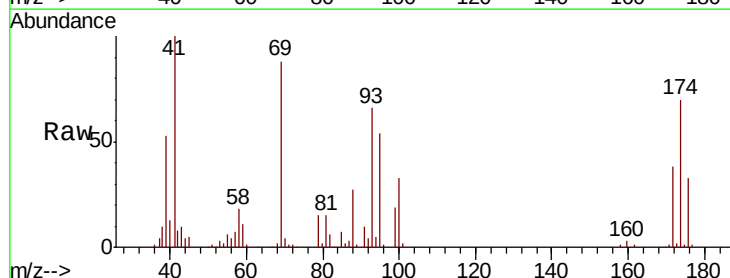


Abundance Ion 88.00 (87.70 to 88.70): VN0  
 Ion 43.00 (42.70 to 43.70): VN0  
 Ion 58.00 (57.70 to 58.70): VN0

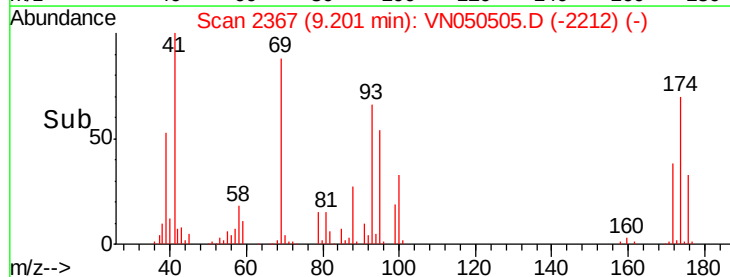
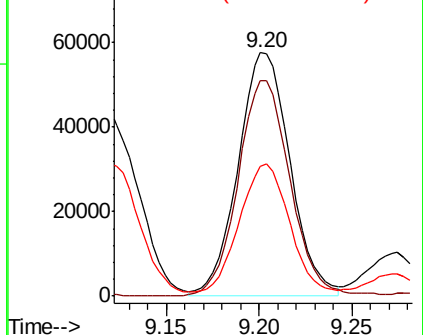


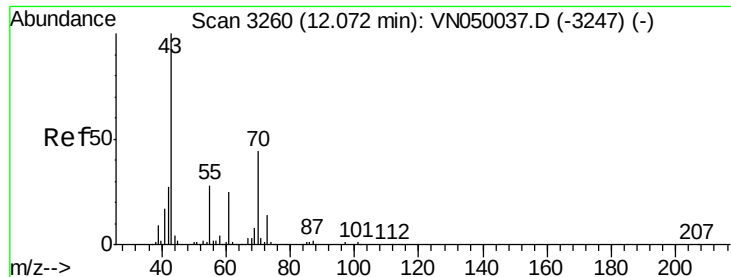
#46  
 Methyl methacrylate  
 Concen: 16.99 ug/l  
 RT: 9.20 min Scan# 2367  
 Delta R.T. -0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion: 41 Resp: 111544  
 Ion Ratio Lower Upper  
 41 100  
 69 89.5 44.0 132.1  
 39 52.6 27.0 80.8



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-amyl Acetate

Concen: 17.14 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

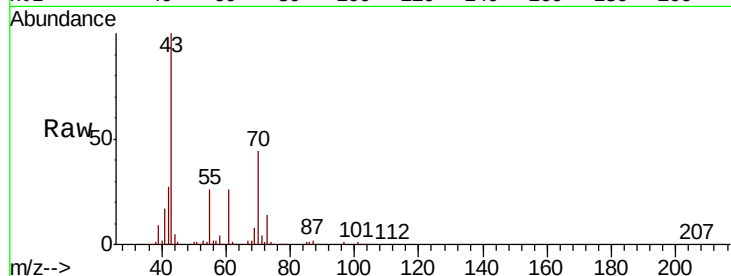
ClientSampleId :

Tot Ion: 43 Resp: 180689

Ion Ratio Lower Upper

43 100

55 26.2 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

100000

80000

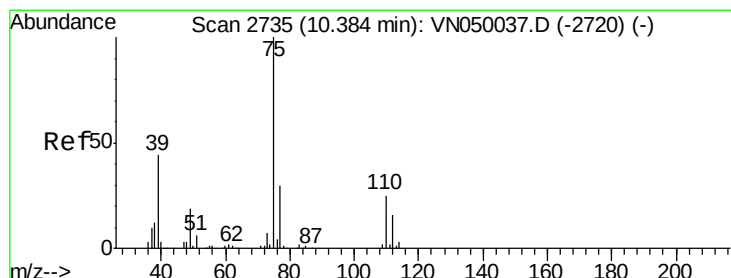
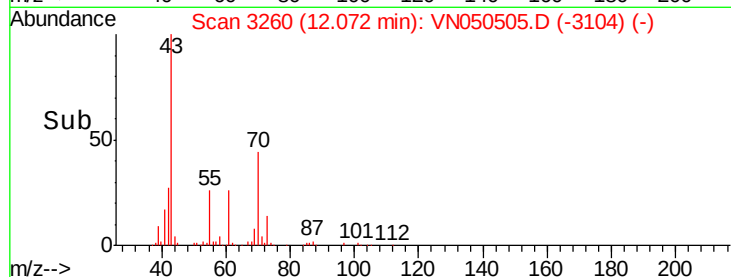
60000

40000

20000

0

Time-->



#48

t-1,3-Dichloropropene

Concen: 17.50 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050505.D

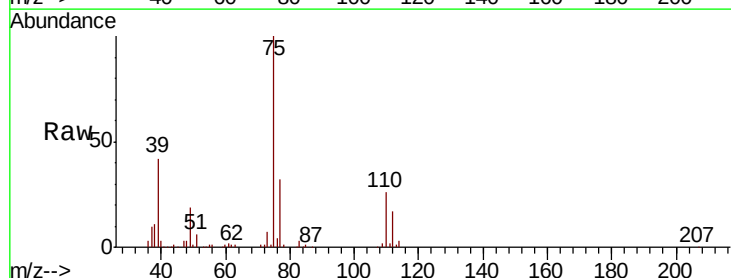
Acq: 10 Aug 2018 00:06

Tgt Ion: 75 Resp: 194171

Ion Ratio Lower Upper

75 100

77 31.6 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

120000

100000

80000

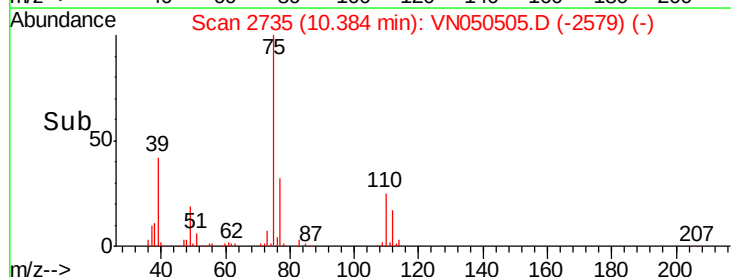
60000

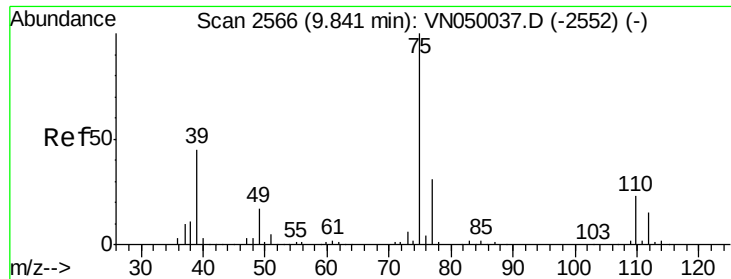
40000

20000

0

Time-->



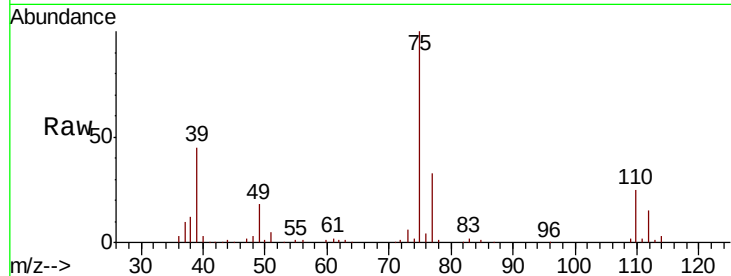


#49

cis-1,3-Dichloropropene  
Concen: 17.63 ug/l  
RT: 9.84 min Scan# 2566  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 33.2  | 25.7  | 38.5  |
| 39      | 45.2  | 36.3  | 54.5  |

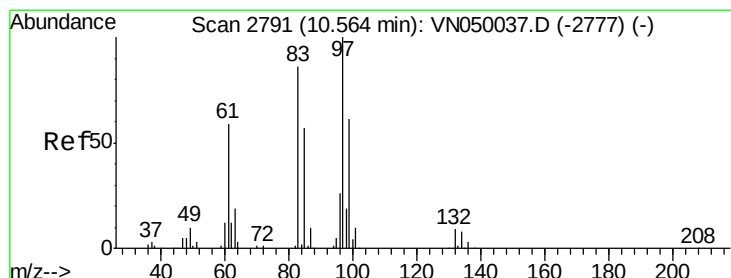
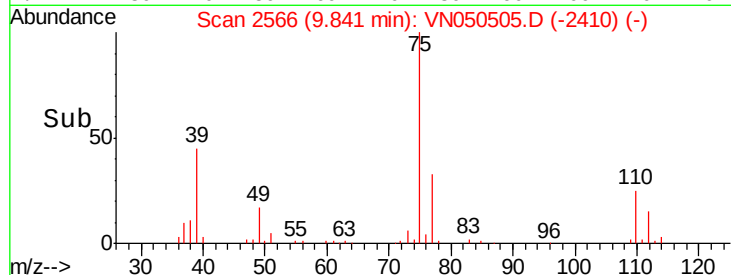
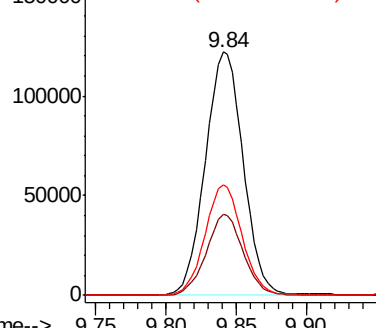


Abundance

Ion 75.00 (74.70 to 75.70): VNO

Ion 77.00 (76.70 to 77.70): VNO

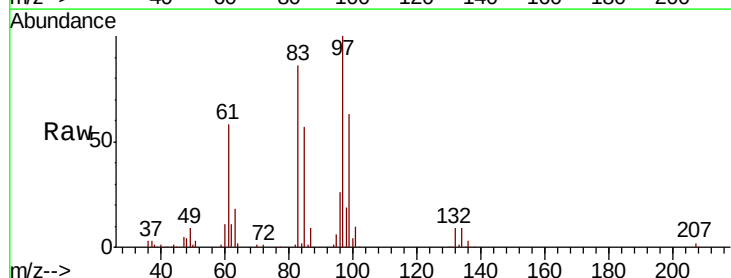
Ion 39.00 (38.70 to 39.70): VNO



#50

1,1,2-Trichloroethane  
Concen: 18.68 ug/l  
RT: 10.56 min Scan# 2791  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 85.7  | 68.1  | 102.1 |
| 85      | 56.8  | 45.4  | 68.2  |
| 99      | 63.1  | 49.4  | 74.0  |



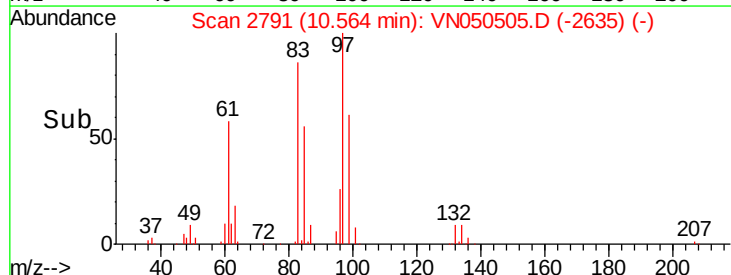
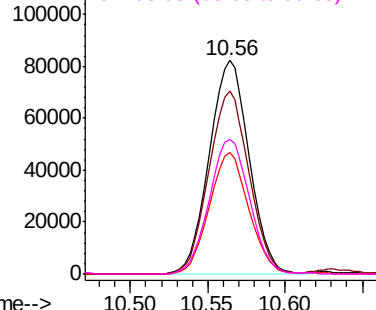
Abundance

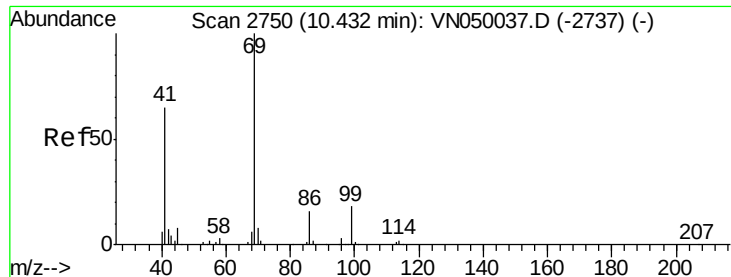
Ion 97.00 (96.70 to 97.70): VNO

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: 17.55 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampleId :

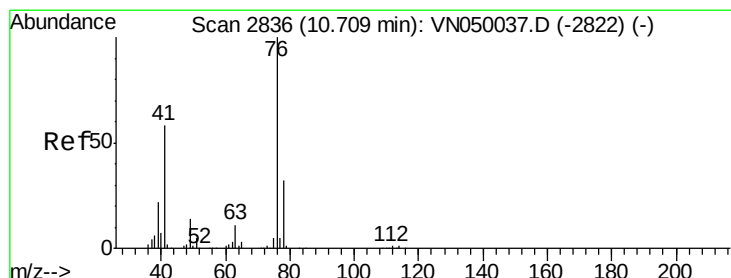
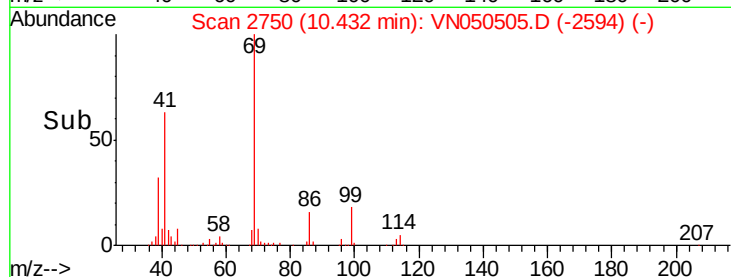
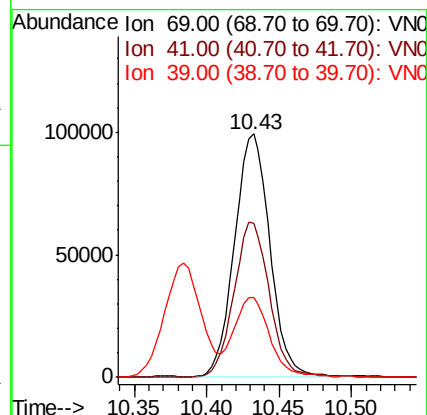
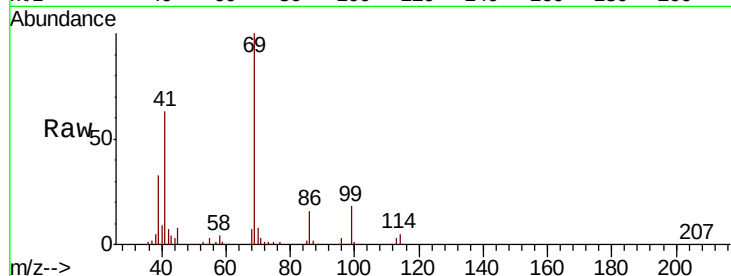
Tot Ion: 69 Resp: 168734

Ion Ratio Lower Upper

69 100

41 63.1 31.9 95.9

39 32.0 16.7 50.1



#52

1,3-Dichloropropane

Concen: 18.59 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050505.D

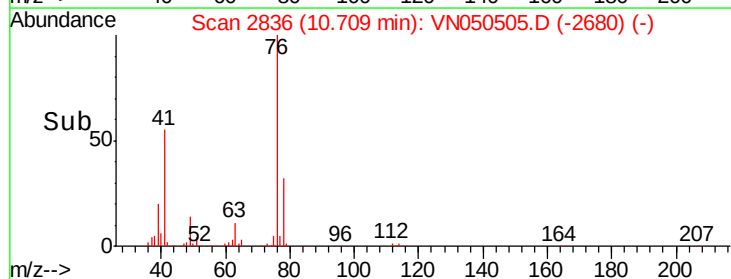
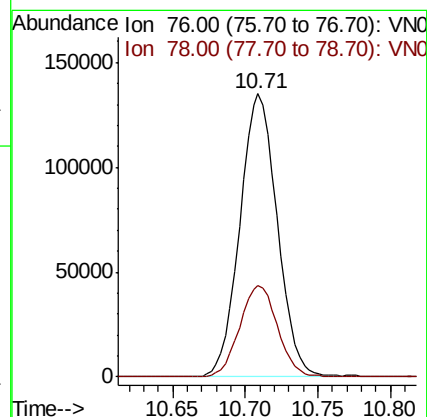
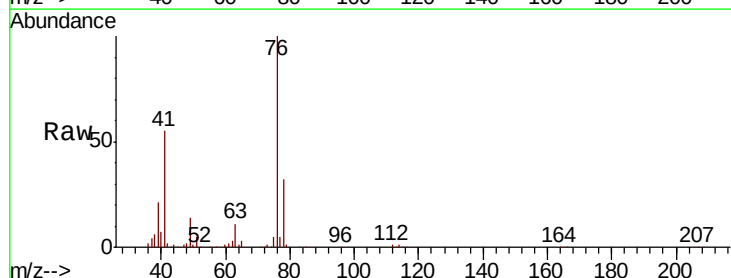
Acq: 10 Aug 2018 00:06

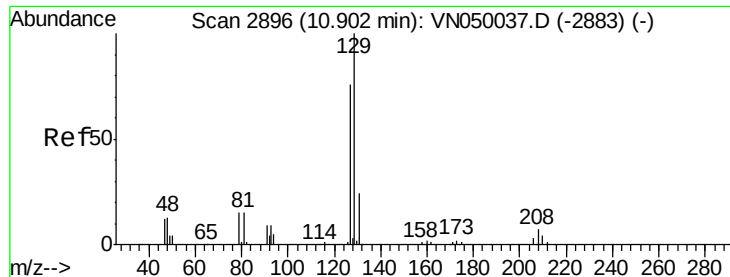
Tgt Ion: 76 Resp: 241794

Ion Ratio Lower Upper

76 100

78 33.0 0.0 65.6





#53

Dibromochloromethane

Concen: 18.02 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

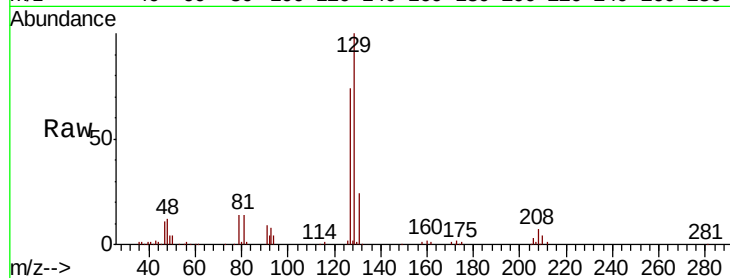
ClientSampleId :

Tot Ion:129 Resp: 162017

Ion Ratio Lower Upper

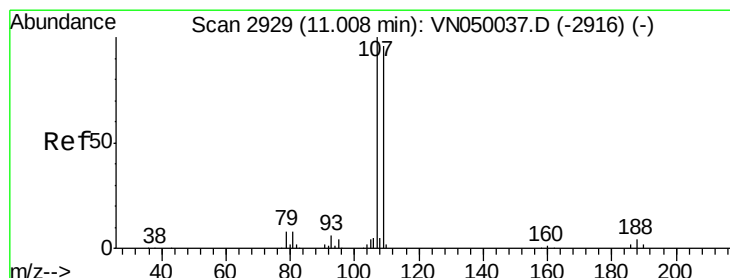
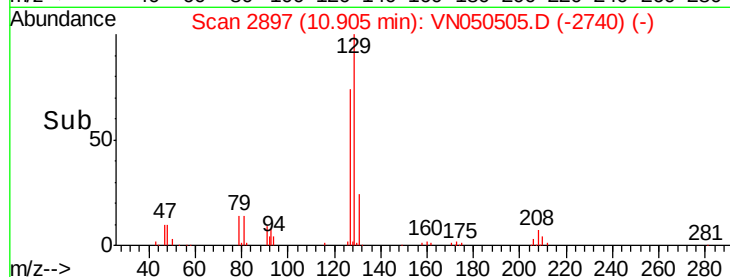
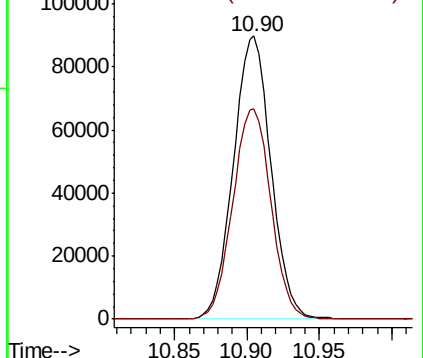
129 100

127 75.6 38.1 114.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 18.19 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050505.D

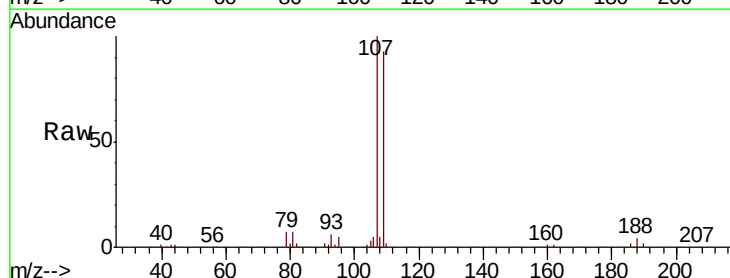
Acq: 10 Aug 2018 00:06

Tgt Ion:107 Resp: 141146

Ion Ratio Lower Upper

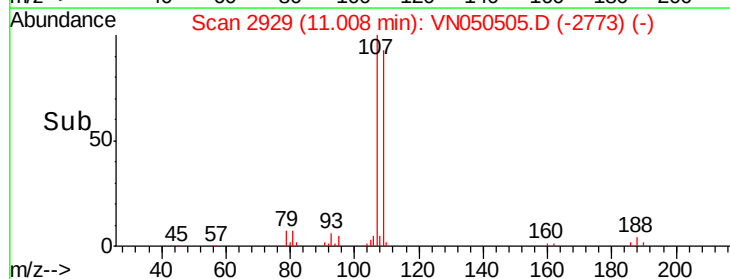
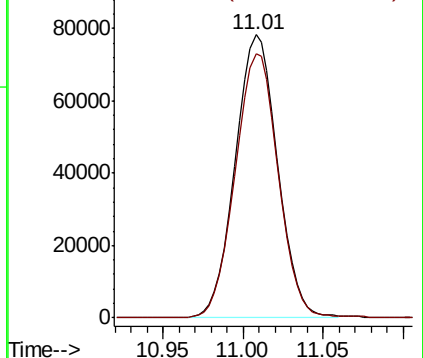
107 100

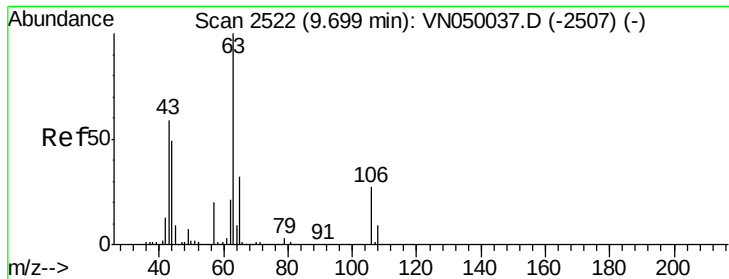
109 95.0 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

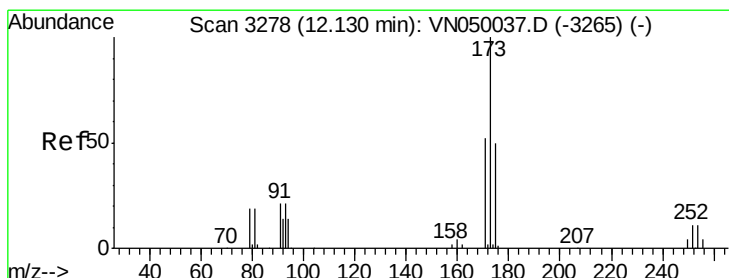
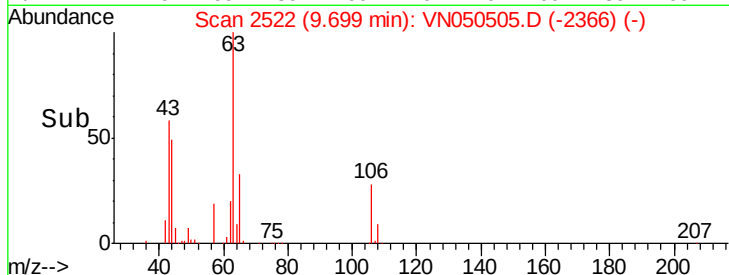
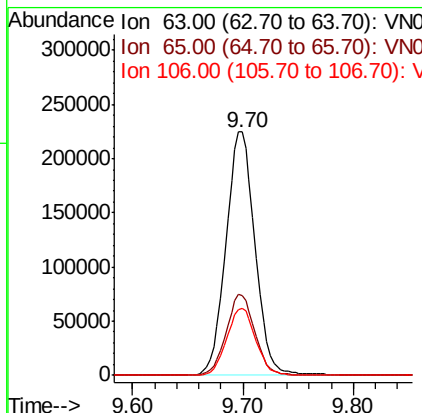
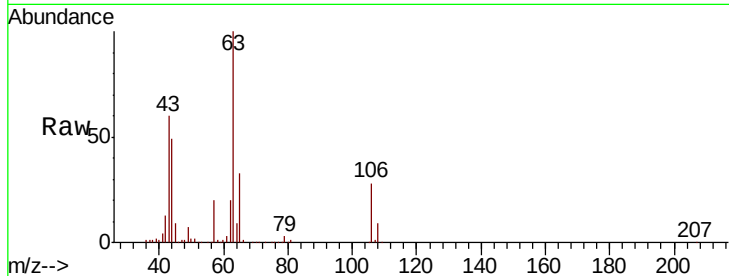




#55  
2-Chloroethyl vinyl ether  
Concen: 94.47 ug/l  
RT: 9.70 min Scan# 2522  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

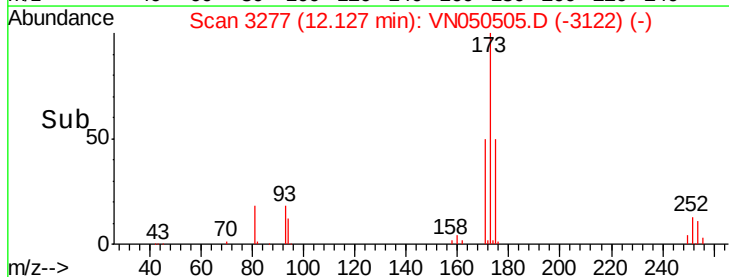
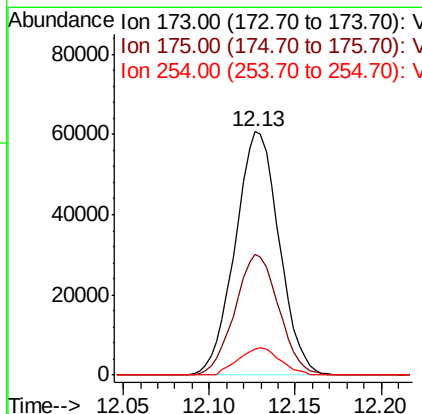
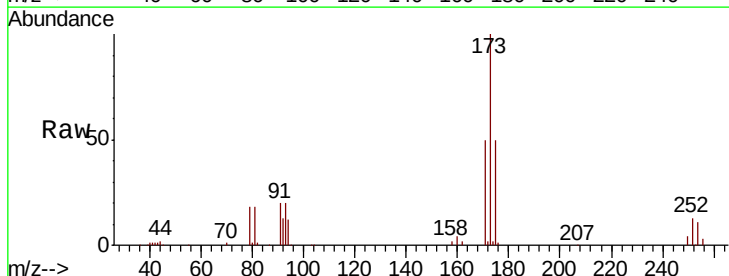
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 63 Resp: 411070  
Ion Ratio Lower Upper  
63 100  
65 32.6 25.5 38.3  
106 27.5 21.8 32.6

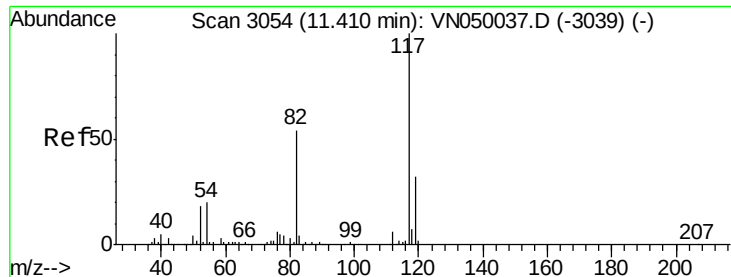


#56  
Bromoform  
Concen: 17.00 ug/l  
RT: 12.13 min Scan# 3277  
Delta R.T. -0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 173 Resp: 107916  
Ion Ratio Lower Upper  
173 100  
175 49.5 38.6 57.8  
254 10.6 8.8 13.2



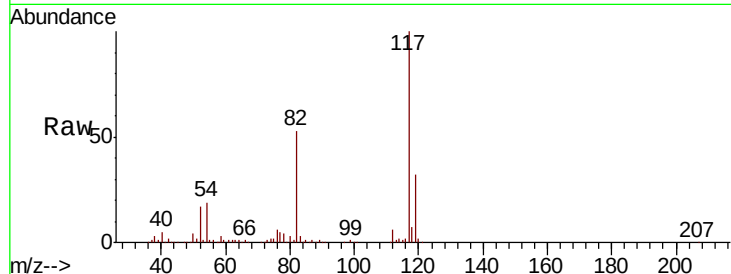




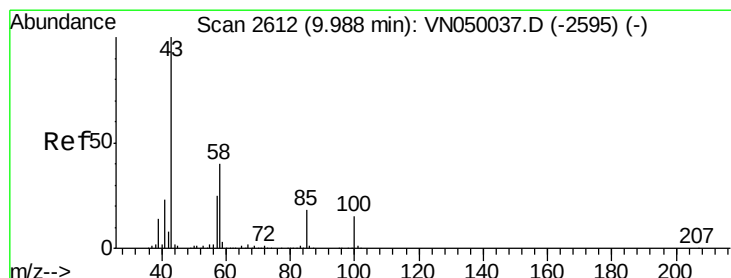
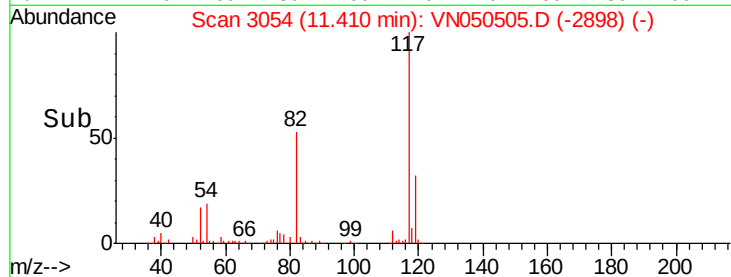
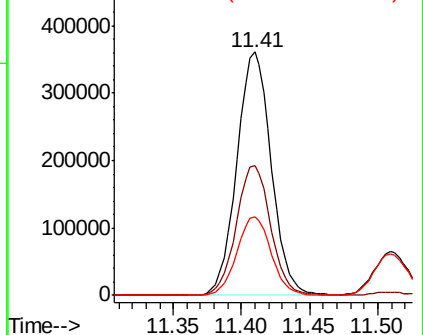
#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Instrument :  
MSVOA\_N  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.4  | 42.4  | 63.6  |
| 119     | 32.2  | 25.4  | 38.0  |

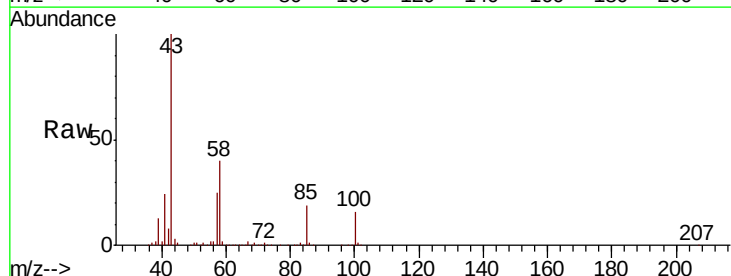


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V

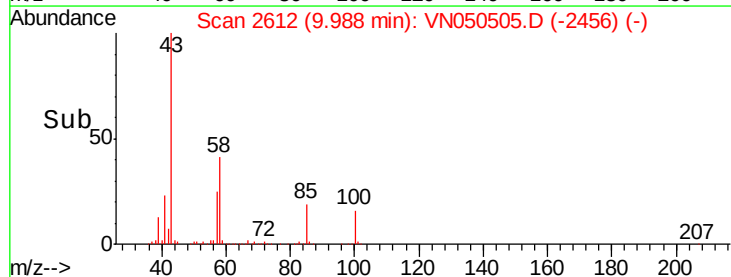
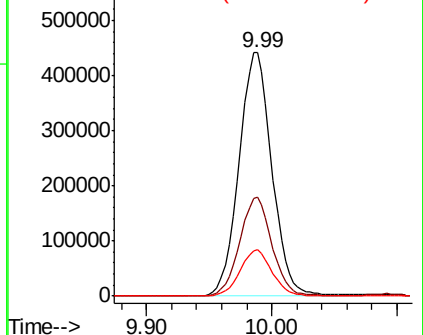


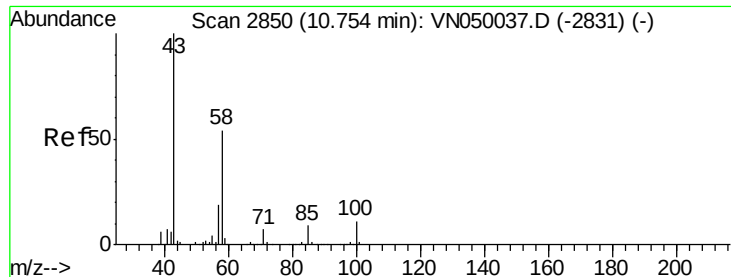
#58  
4-Methyl-2-Pentanone  
Concen: 109.34 ug/l  
RT: 9.99 min Scan# 2612  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 39.9  | 31.2  | 46.8  |
| 85      | 18.6  | 14.4  | 21.6  |



Abundance Ion 43.00 (42.70 to 43.70): V  
Ion 58.00 (57.70 to 58.70): V  
Ion 85.00 (84.70 to 85.70): V

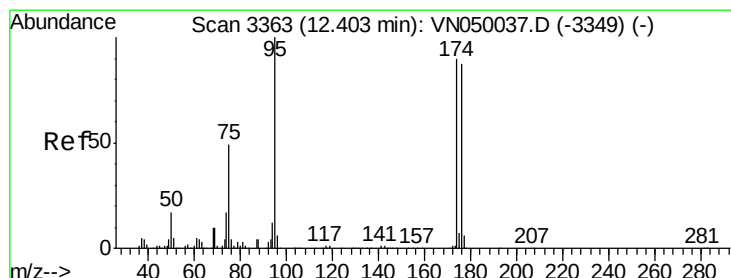
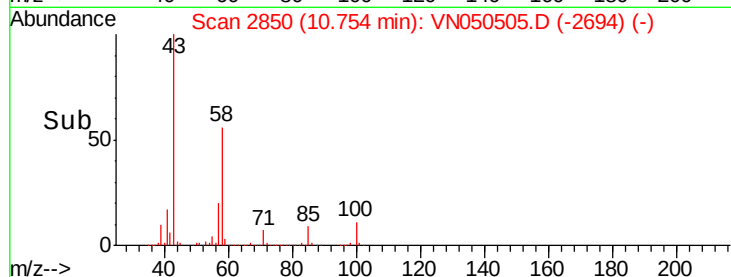
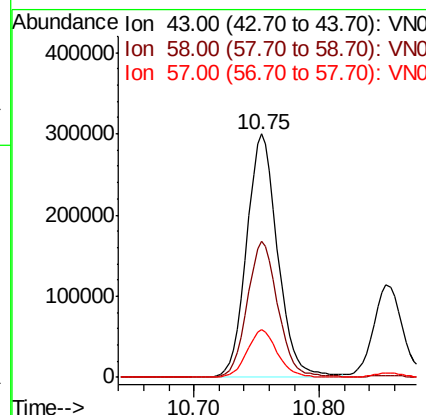
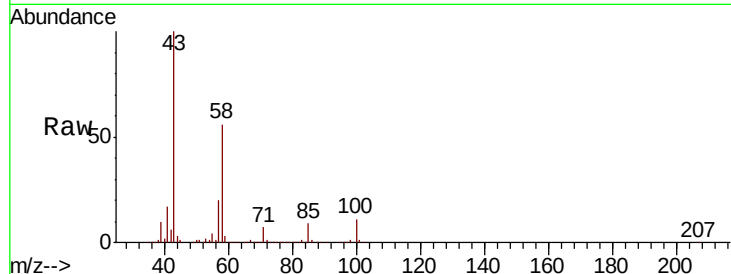




#59  
2-Hexanone  
Concen: 102.71 ug/l  
RT: 10.75 min Scan# 2850  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

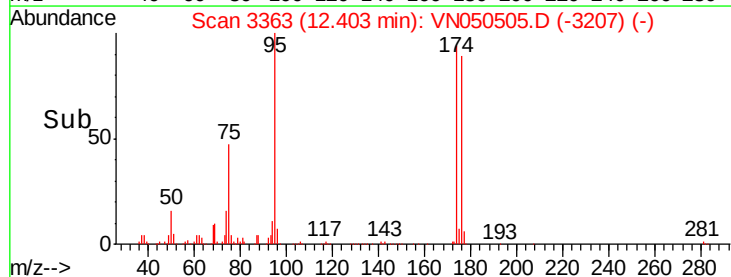
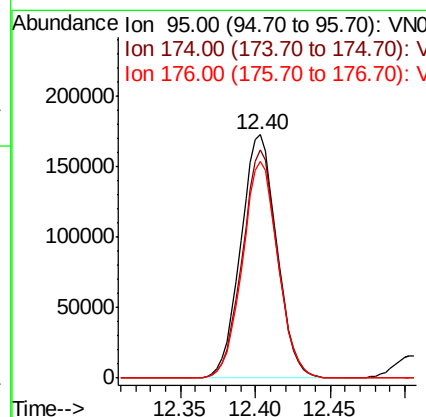
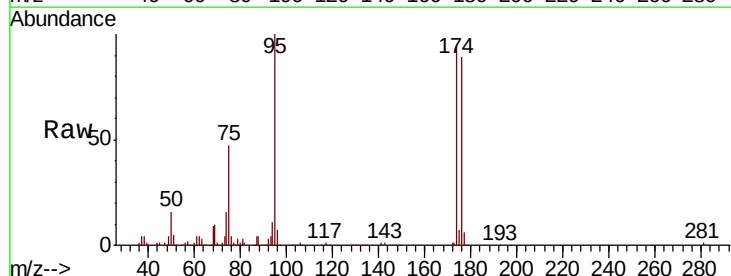
Instrument :  
MSVOA\_N  
ClientSampleId :

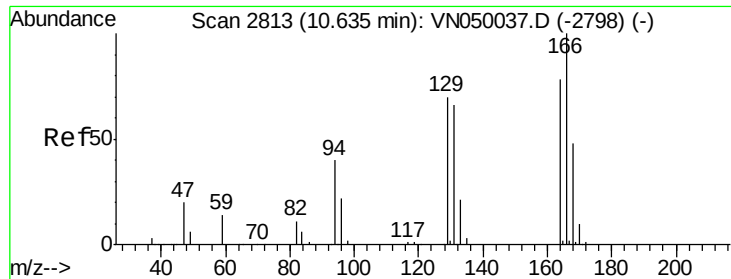
| Tot Ion   | 43    | Resp  | 514992 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 55.6  | 43.8  | 65.8   |
| 57        | 19.3  | 15.1  | 22.7   |



#60  
4-Bromofluorobenzene  
Concen: 29.83 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

| Tgt Ion   | 95    | Resp  | 289449 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 91.3  | 72.3  | 108.5  |
| 176       | 87.6  | 70.0  | 105.0  |

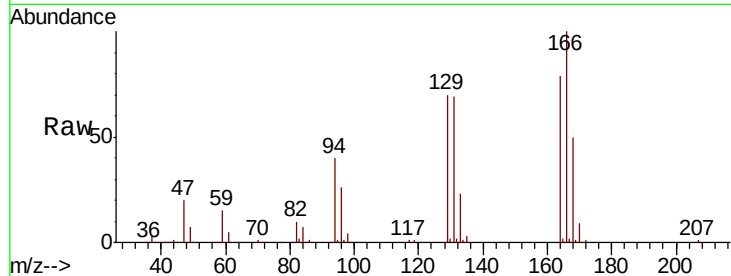




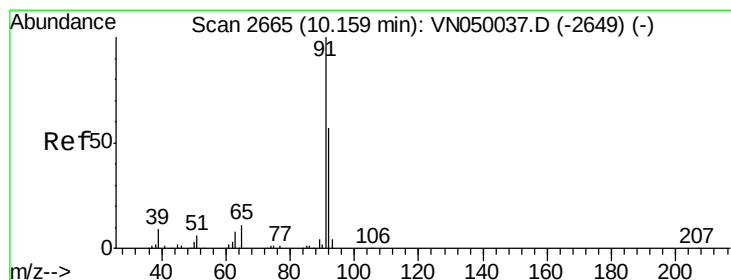
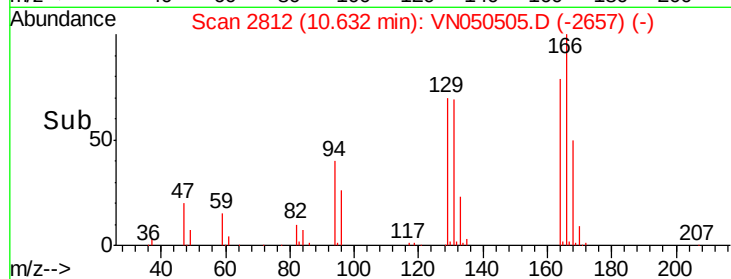
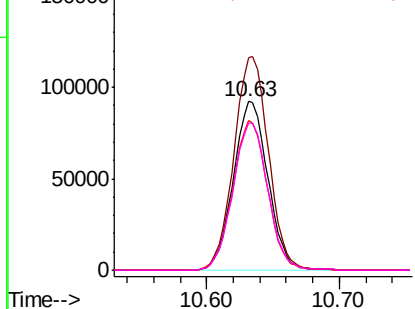
#61  
Tetrachloroethene  
Concen: 19.54 ug/l  
RT: 10.63 min Scan# 2812  
Delta R.T. -0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:164 Resp: 167175  
Ion Ratio Lower Upper  
164 100  
166 125.9 100.0 150.0  
129 88.5 69.3 103.9  
131 87.3 68.8 103.2

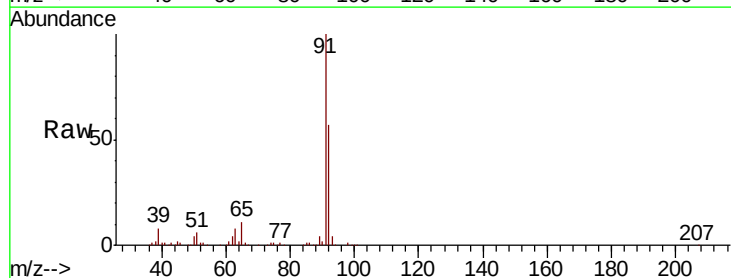


Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

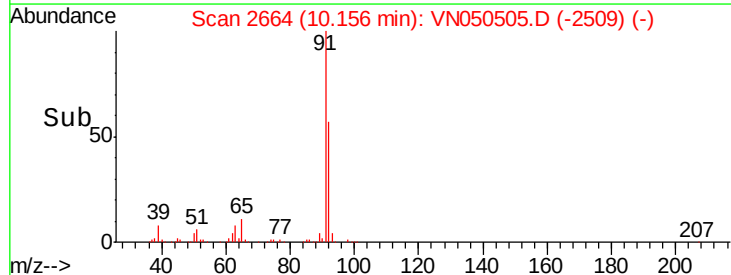
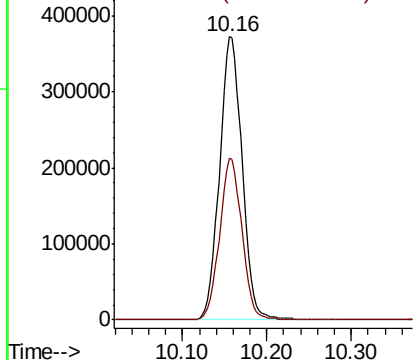


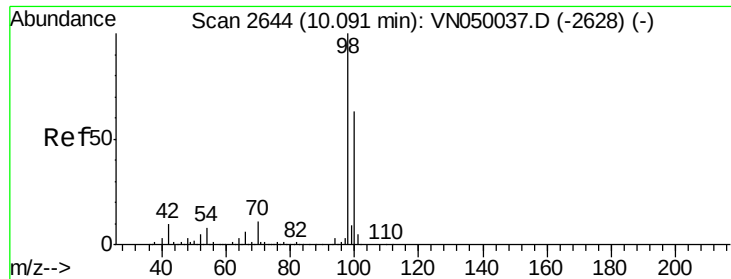
#62  
Toluene  
Concen: 19.17 ug/l  
RT: 10.16 min Scan# 2664  
Delta R.T. -0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 91 Resp: 690826  
Ion Ratio Lower Upper  
91 100  
92 56.5 45.7 68.5



Abundance Ion 91.00 (90.70 to 91.70): VN0  
Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 29.95 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

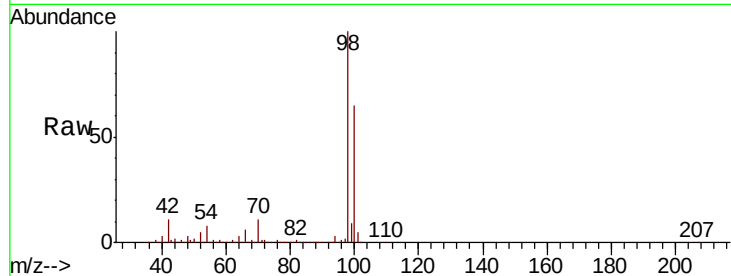
ClientSampled :

Tot Ion: 98 Resp: 903449

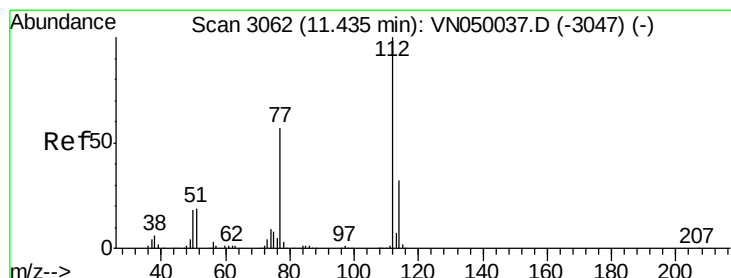
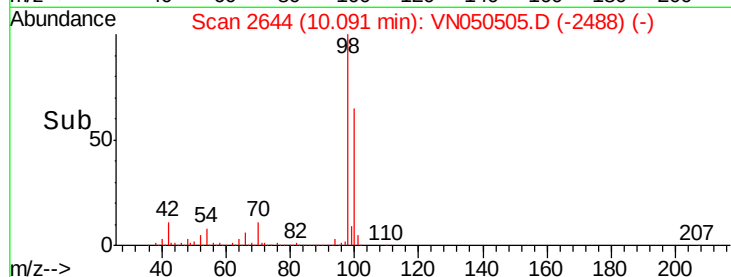
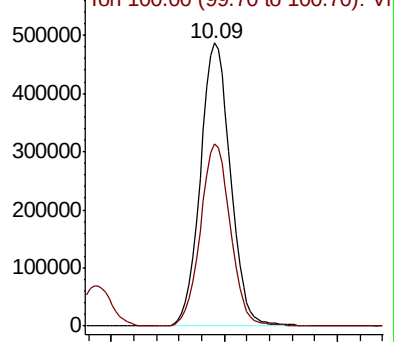
Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN050037.D (-2628) (-)



#64

Chlorobenzene

Concen: 19.48 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050505.D

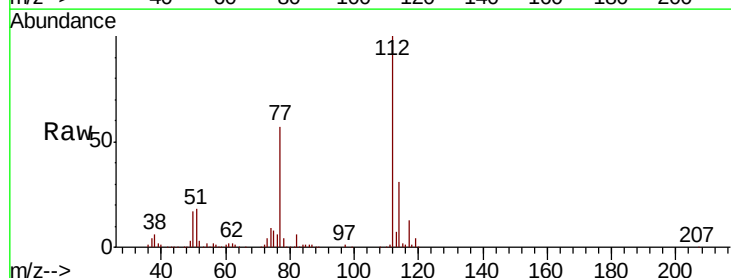
Acq: 10 Aug 2018 00:06

Tgt Ion: 112 Resp: 425720

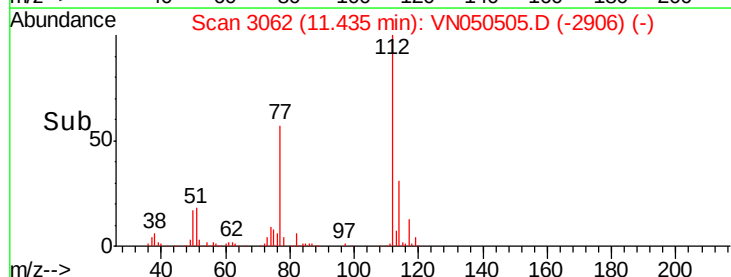
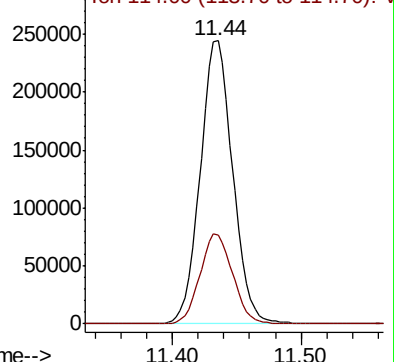
Ion Ratio Lower Upper

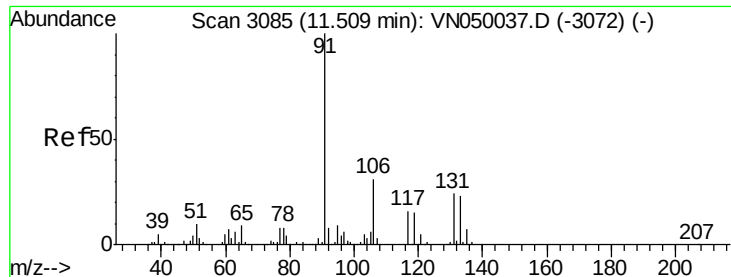
112 100

114 31.3 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): VN050037.D (-3047) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 19.15 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampled :

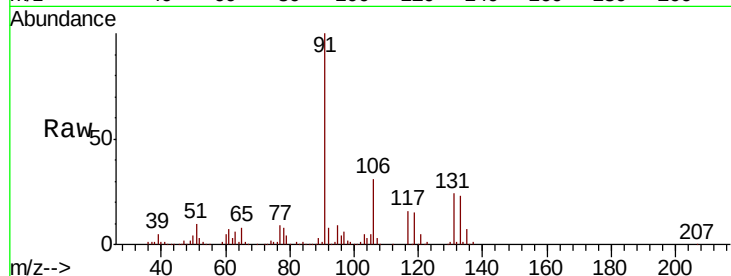
Tot Ion:131 Resp: 163200

Ion Ratio Lower Upper

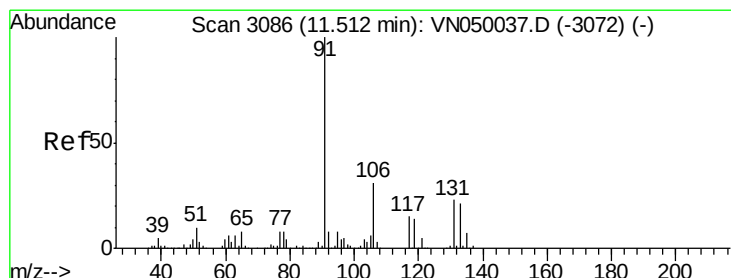
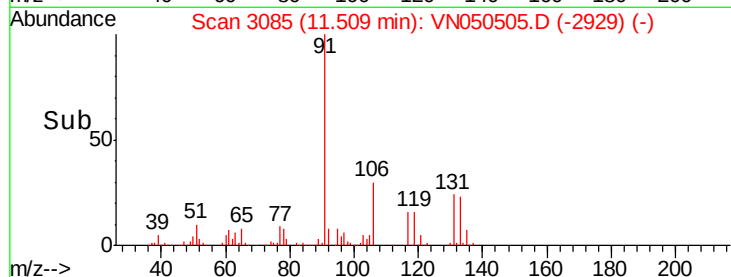
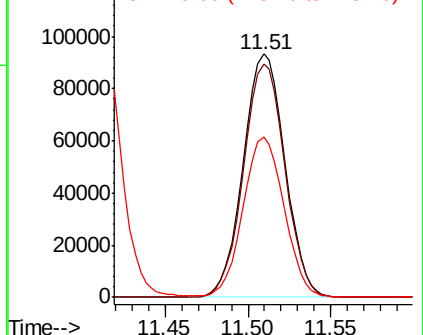
131 100

133 95.4 0.0 190.0

119 65.1 0.0 131.6



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: 18.80 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050505.D

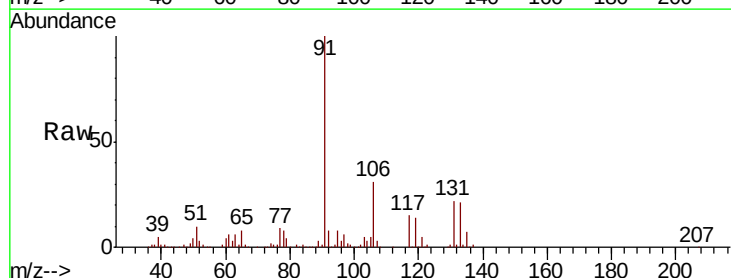
Acq: 10 Aug 2018 00:06

Tgt Ion: 91 Resp: 692307

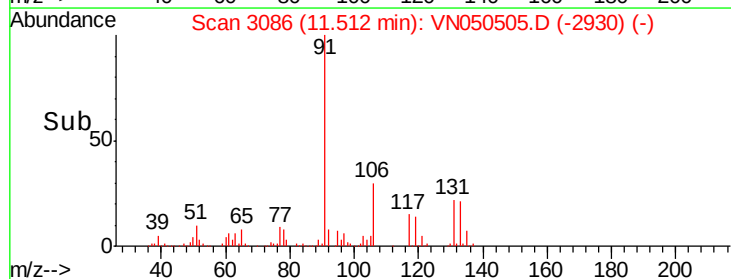
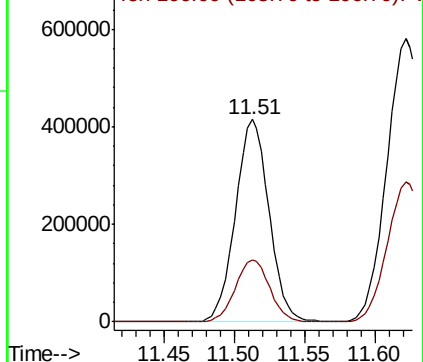
Ion Ratio Lower Upper

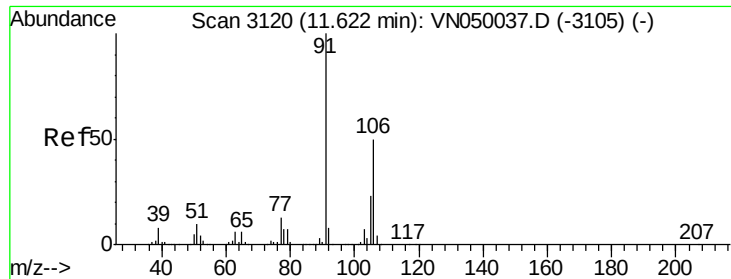
91 100

106 30.7 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VN  
Ion 106.00 (105.70 to 106.70): V

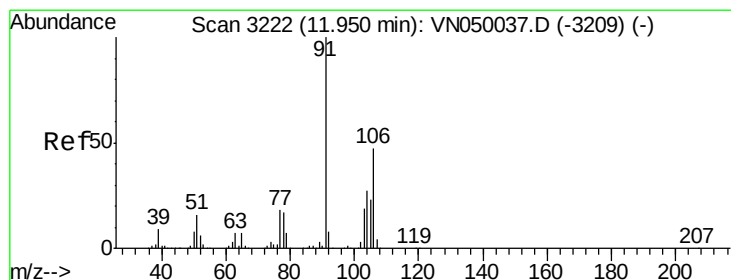
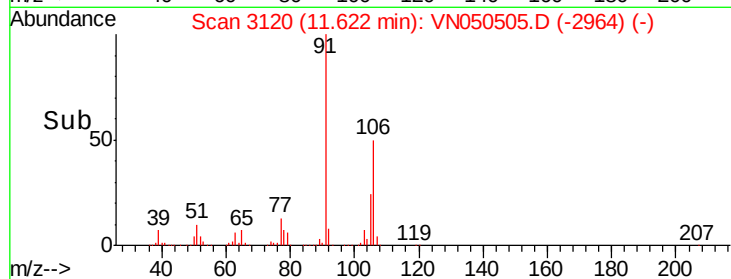
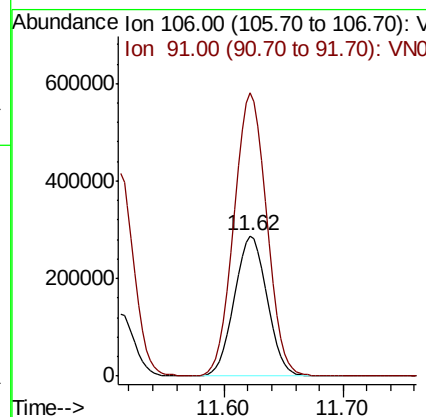
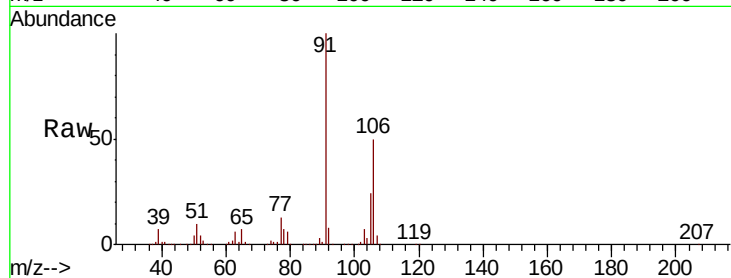




#67  
m/p-Xylenes  
Concen: 38.69 ug/l  
RT: 11.62 min Scan# 3120  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

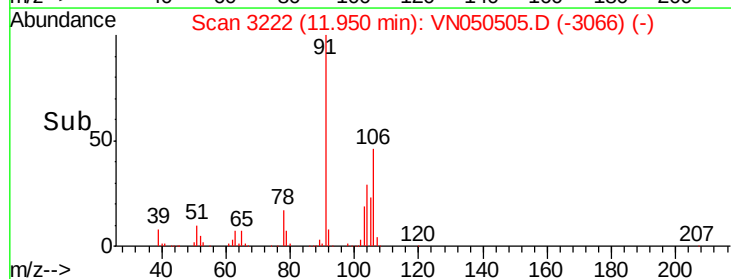
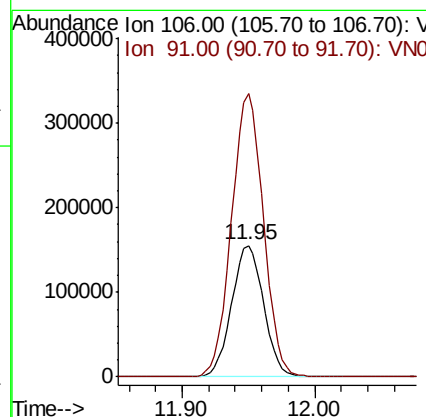
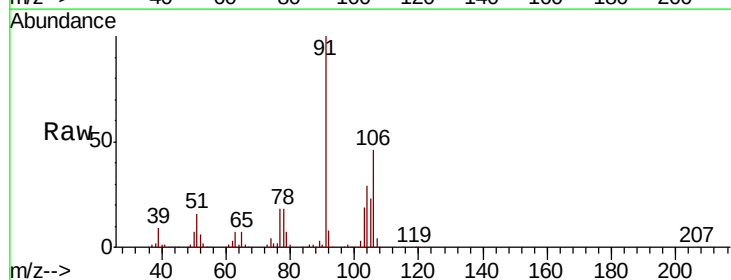
Instrument :  
MSVOA\_N  
ClientSampled :

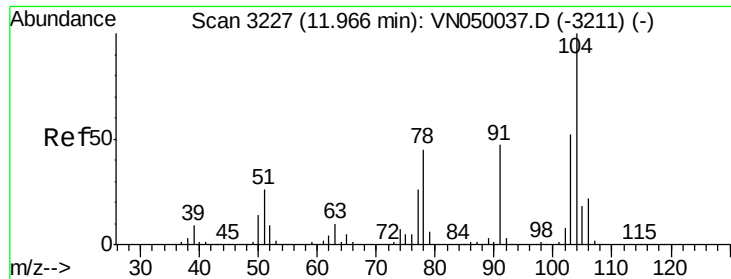
Tot Ion:106 Resp: 548366  
Ion Ratio Lower Upper  
106 100  
91 202.3 162.5 243.7



#68  
o-Xylene  
Concen: 19.29 ug/l  
RT: 11.95 min Scan# 3222  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion:106 Resp: 260103  
Ion Ratio Lower Upper  
106 100  
91 215.1 106.8 320.4





#69

Stvrene

Concen: 19.40 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampleId :

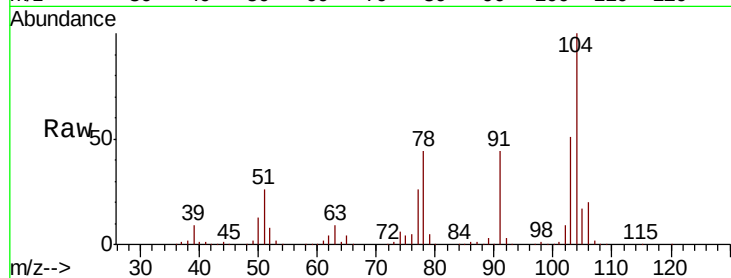
Tot Ion:104 Resp: 419395

Ion Ratio Lower Upper

104 100

78 49.4 39.3 58.9

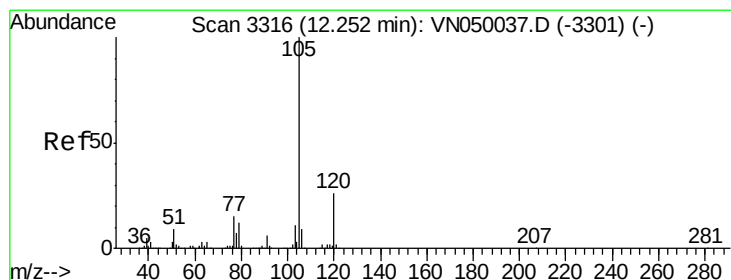
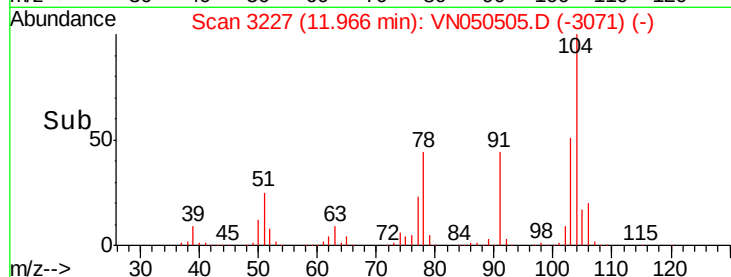
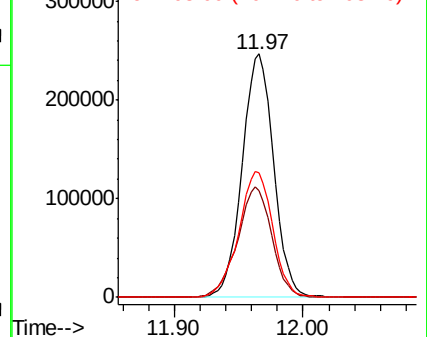
103 56.0 44.5 66.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 19.06 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050505.D

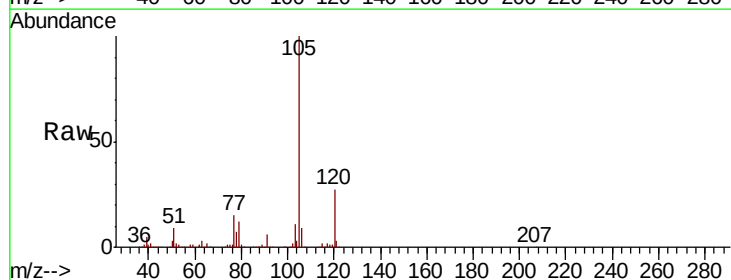
Acq: 10 Aug 2018 00:06

Tgt Ion:105 Resp: 684499

Ion Ratio Lower Upper

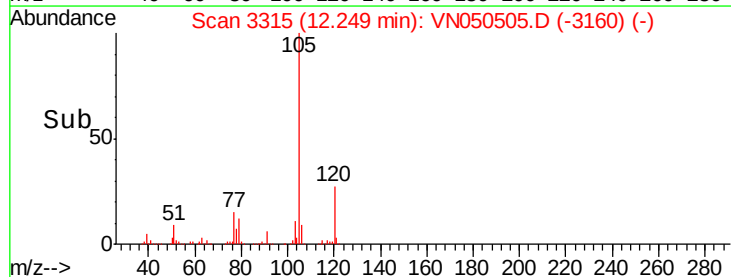
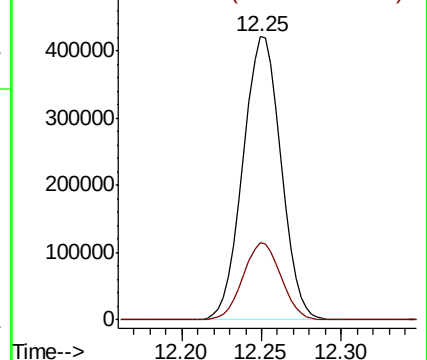
105 100

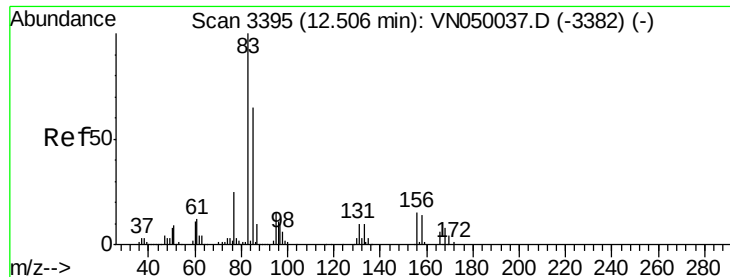
120 27.1 18.9 35.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

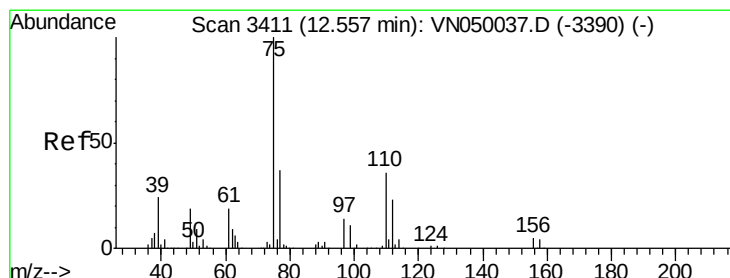
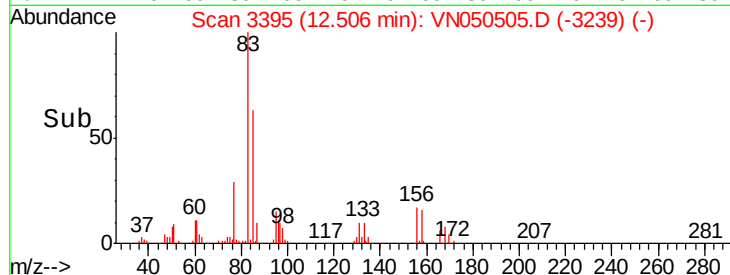
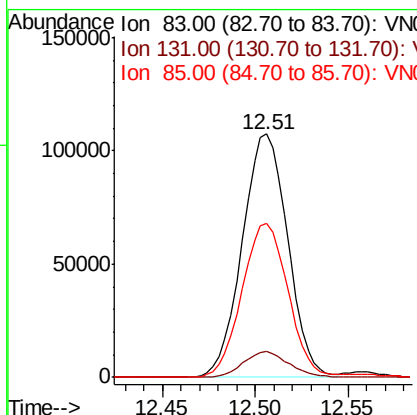
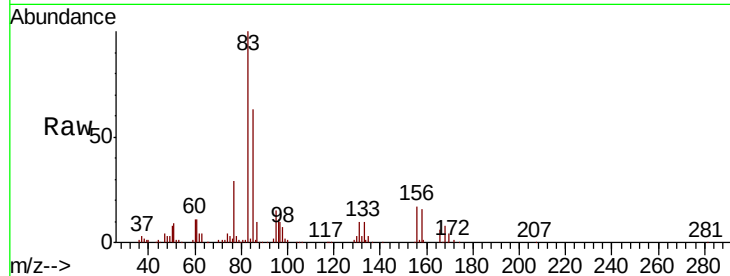




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 18.58 ug/l  
 RT: 12.51 min Scan# 3395  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

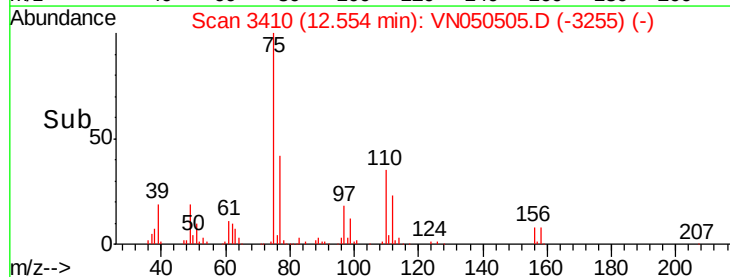
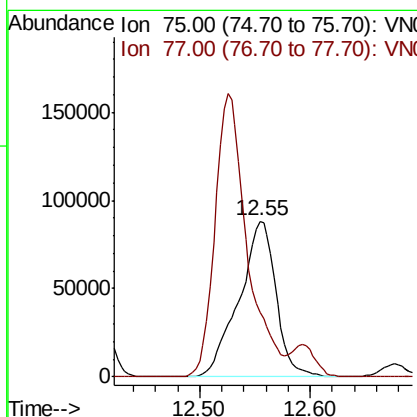
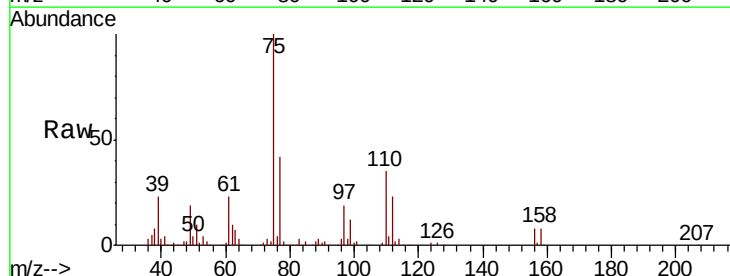
Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 83 Resp: 183197  
 Ion Ratio Lower Upper  
 83 100  
 131 10.6 5.2 15.6  
 85 63.8 31.7 95.1

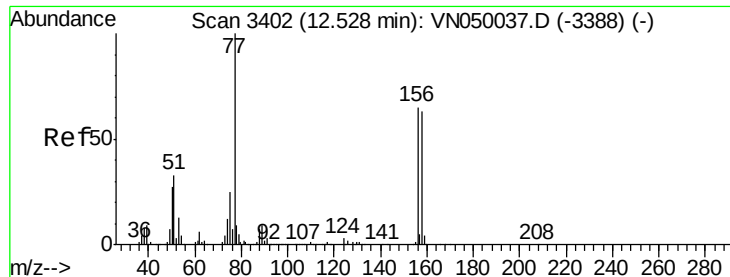


#72  
 1,2,3-Trichloropropane  
 Concen: 24.34 ug/l  
 RT: 12.55 min Scan# 3410  
 Delta R.T. -0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion: 75 Resp: 204946  
 Ion Ratio Lower Upper  
 75 100  
 77 157.8 0.0 454.4







#73

Bromobenzene

Concen: 18.82 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampleId :

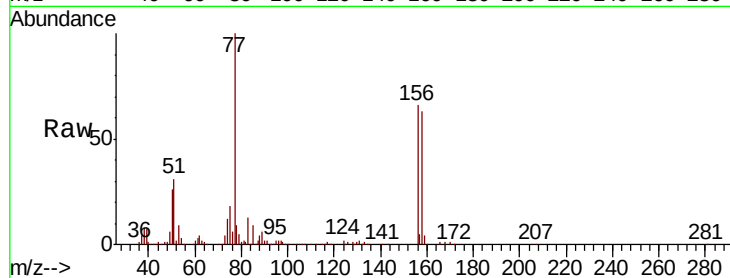
Tot Ion:156 Resp: 180017

Ion Ratio Lower Upper

156 100

77 179.6 0.0 359.8

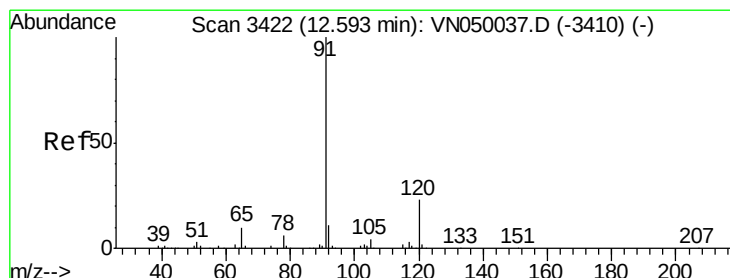
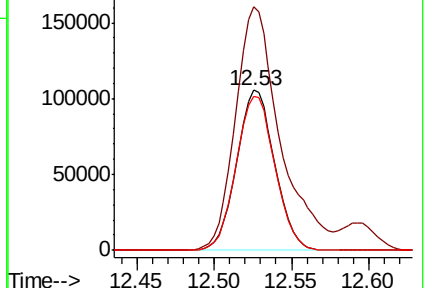
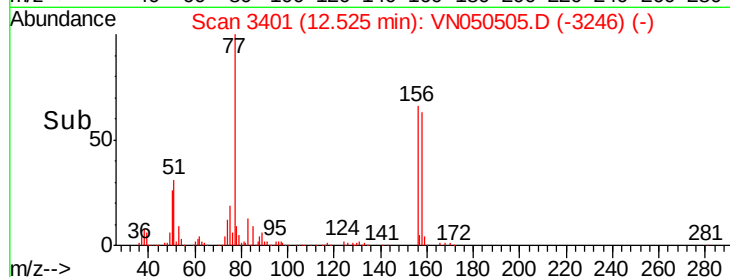
158 98.0 0.0 192.8



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: 18.47 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050505.D

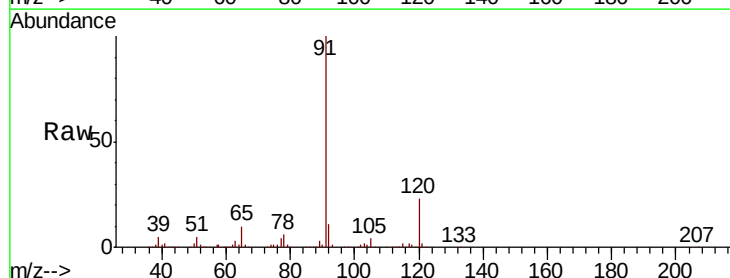
Acq: 10 Aug 2018 00:06

Tgt Ion: 91 Resp: 772547

Ion Ratio Lower Upper

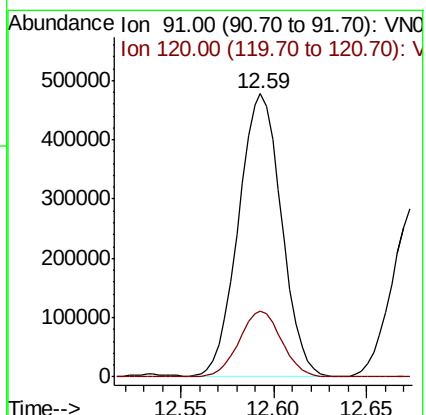
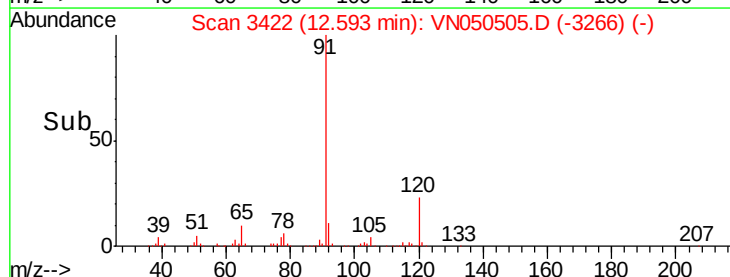
91 100

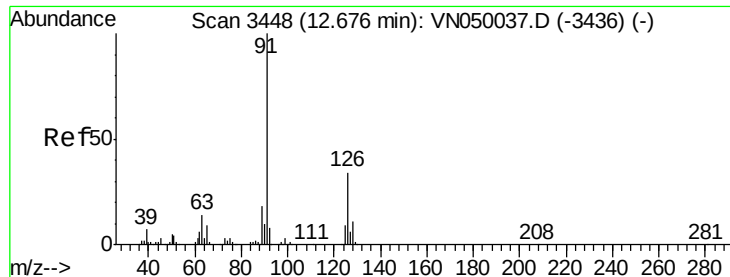
120 22.9 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.13 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

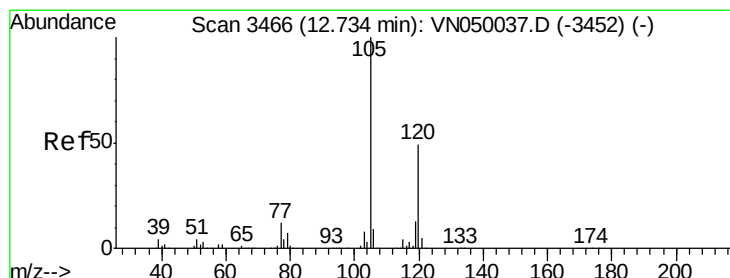
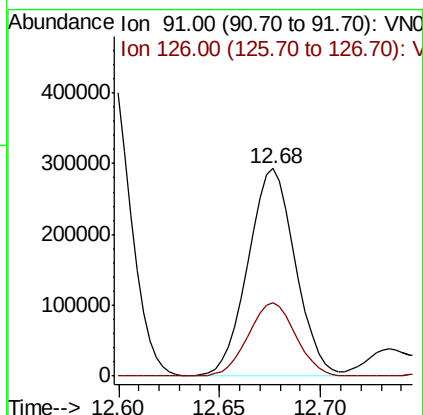
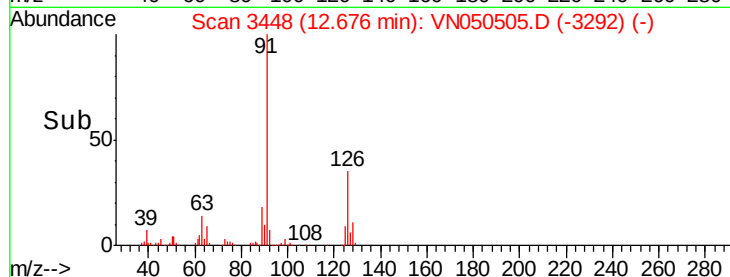
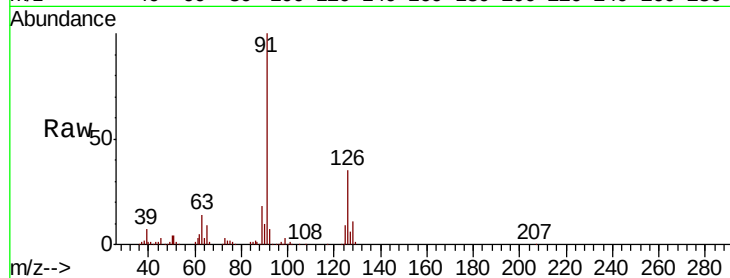
ClientSampled :

Tot Ion: 91 Resp: 480451

Ion Ratio Lower Upper

91 100

126 35.6 0.0 68.6



#76

1,3,5-Trimethylbenzene

Concen: 19.26 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050505.D

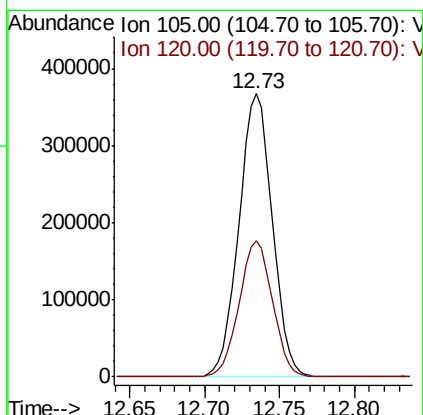
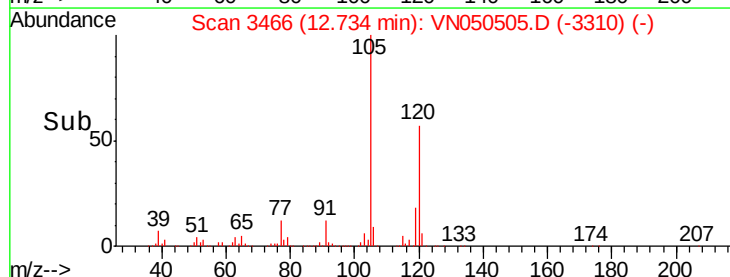
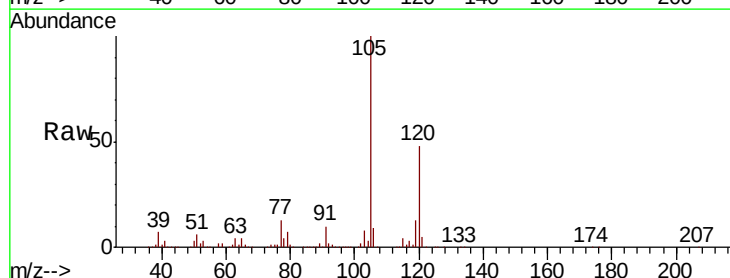
Acq: 10 Aug 2018 00:06

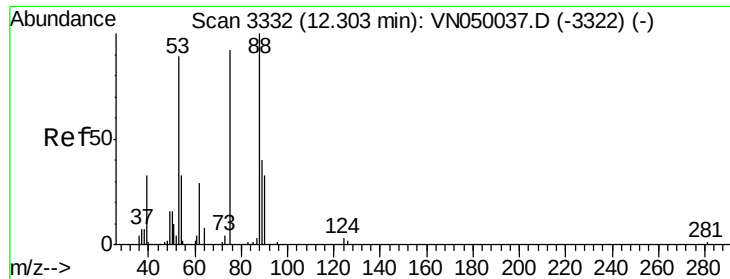
Tgt Ion: 105 Resp: 568135

Ion Ratio Lower Upper

105 100

120 48.3 0.0 98.0

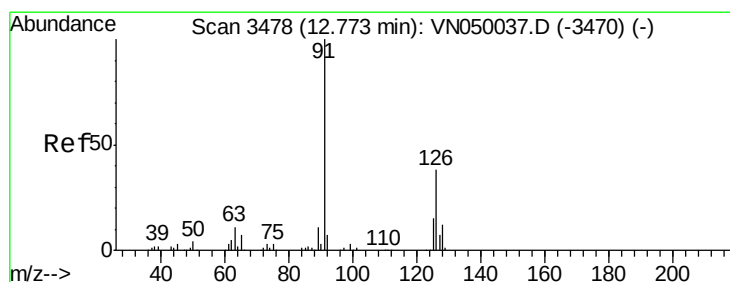
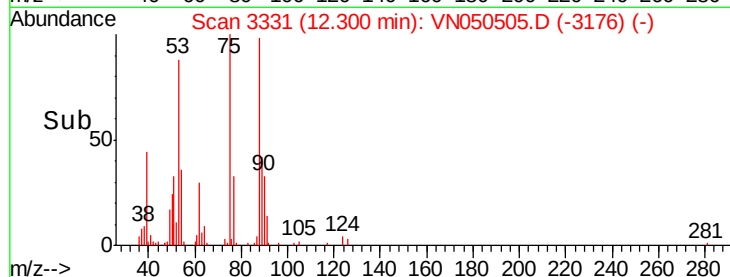
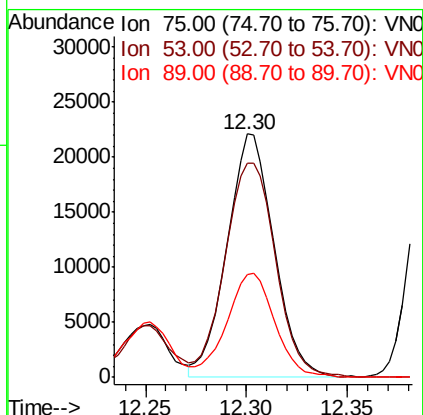
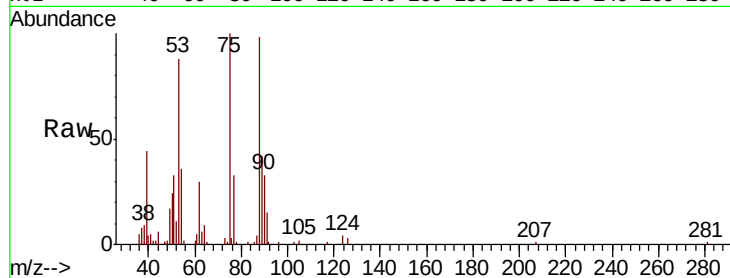




#77  
t-1,4-Dichloro-2-butene  
Concen: 13.10 ug/l  
RT: 12.30 min Scan# 3331  
Delta R.T. -0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

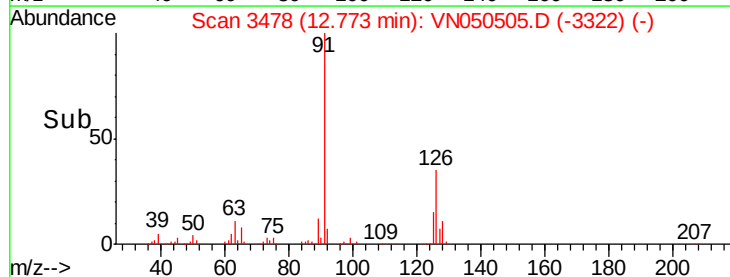
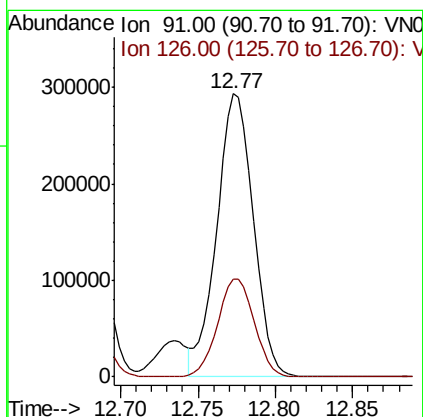
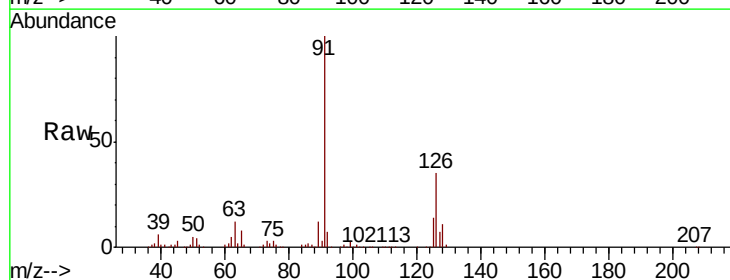
Instrument :  
MSVOA\_N  
ClientSampled :

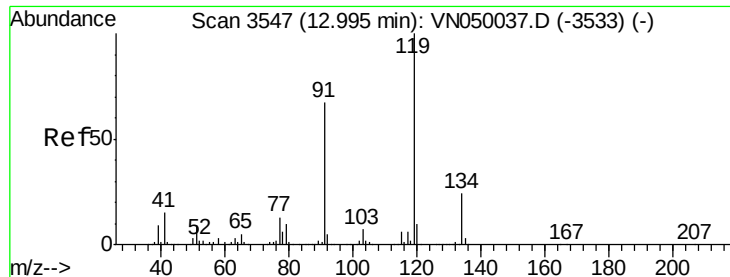
Tot Ion: 75 Resp: 36064  
Ion Ratio Lower Upper  
75 100  
53 86.9 44.6 134.0  
89 42.4 20.7 62.1



#78  
4-Chlorotoluene  
Concen: 19.27 ug/l  
RT: 12.77 min Scan# 3478  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion: 91 Resp: 479824  
Ion Ratio Lower Upper  
91 100  
126 34.7 0.0 68.4

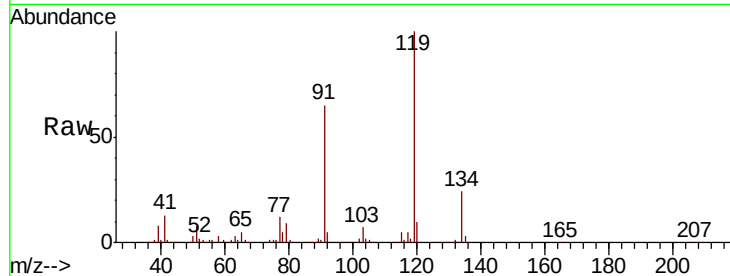




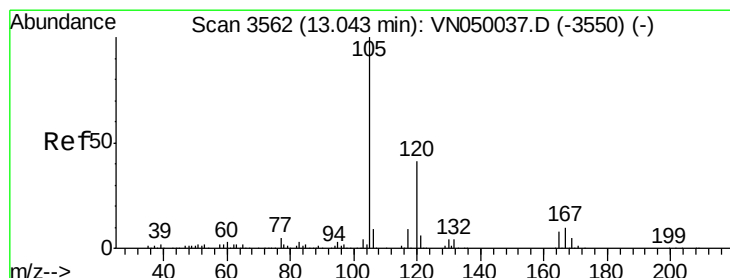
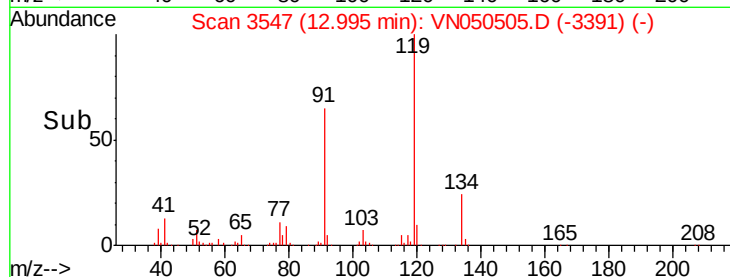
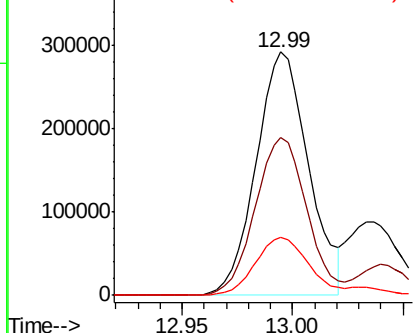
#79  
tert-butylbenzene  
Concen: 19.14 ug/l  
RT: 12.99 min Scan# 3547  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:119 Resp: 482542  
Ion Ratio Lower Upper  
119 100  
91 63.8 0.0 126.8  
134 24.2 0.0 47.4

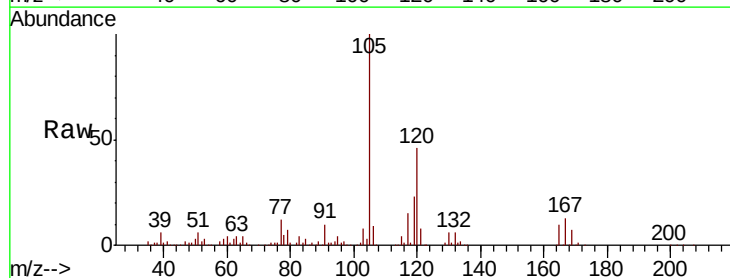


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VN  
Ion 134.00 (133.70 to 134.70): V

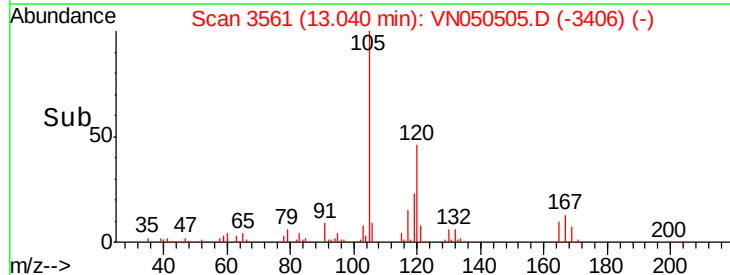
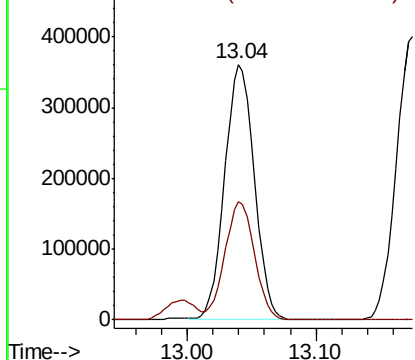


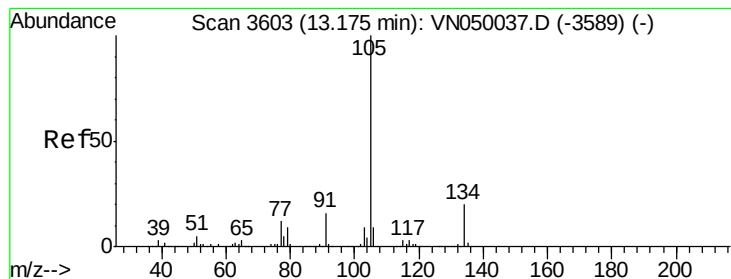
#80  
1,2,4-Trimethylbenzene  
Concen: 19.29 ug/l  
RT: 13.04 min Scan# 3561  
Delta R.T. -0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion:105 Resp: 576612  
Ion Ratio Lower Upper  
105 100  
120 45.9 0.0 90.6



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 18.39 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

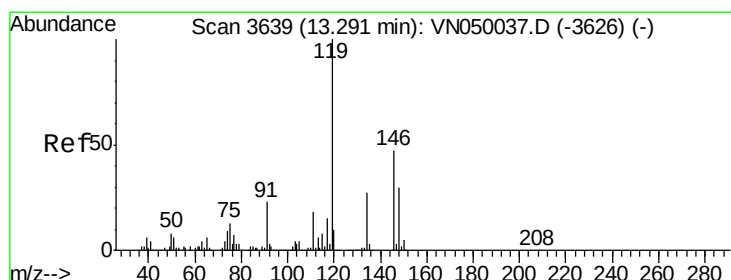
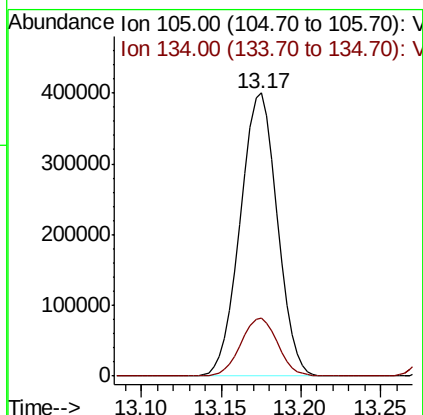
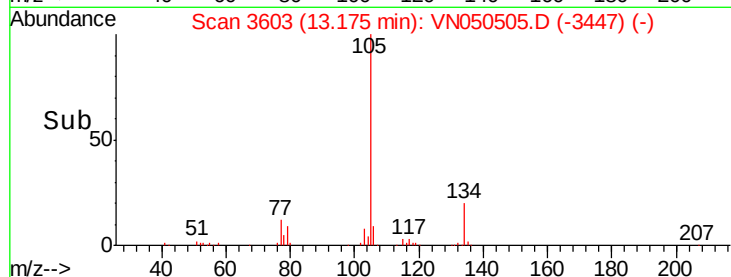
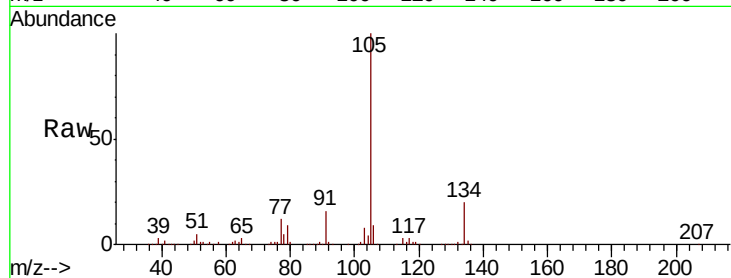
ClientSampleId :

Tot Ion:105 Resp: 629992

Ion Ratio Lower Upper

105 100

134 20.5 0.0 40.6



#82

p-Isopropyltoluene

Concen: 18.35 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

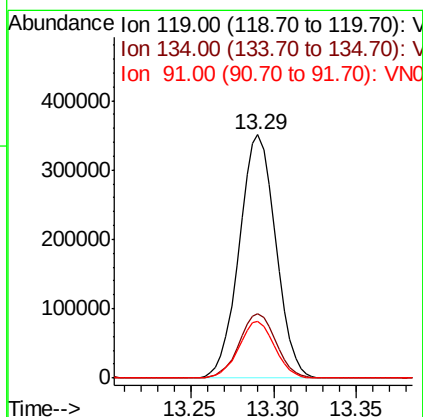
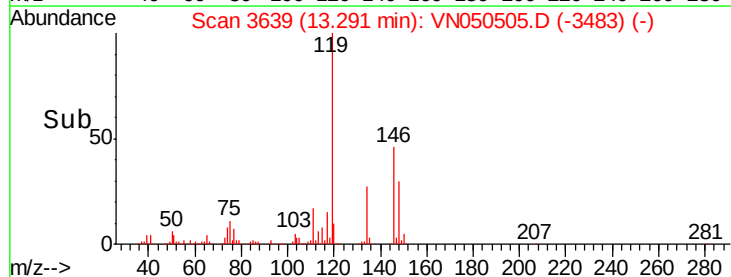
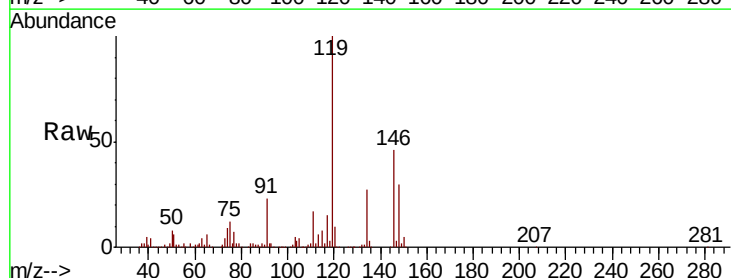
Tgt Ion:119 Resp: 536296

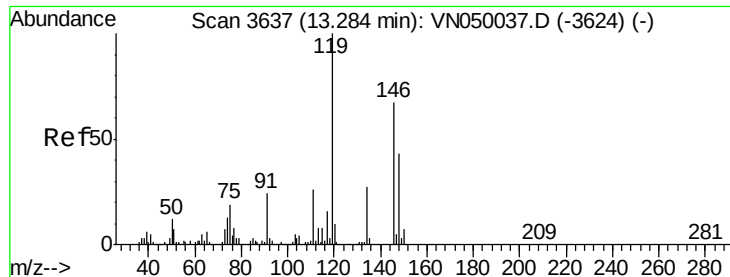
Ion Ratio Lower Upper

119 100

134 26.8 0.0 52.2

91 22.8 0.0 45.6





#83

1,3-Dichlorobenzene

Concen: 18.77 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampled :

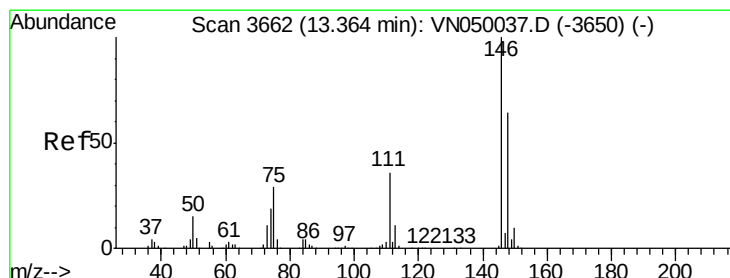
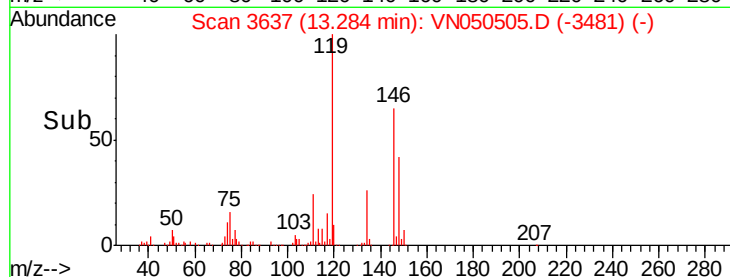
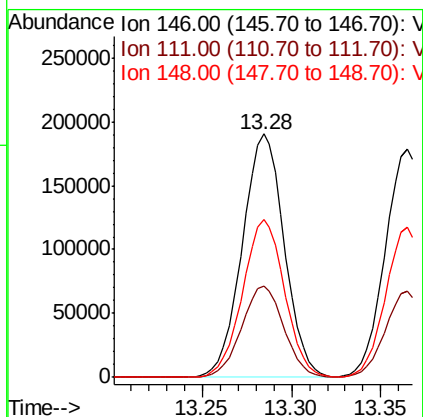
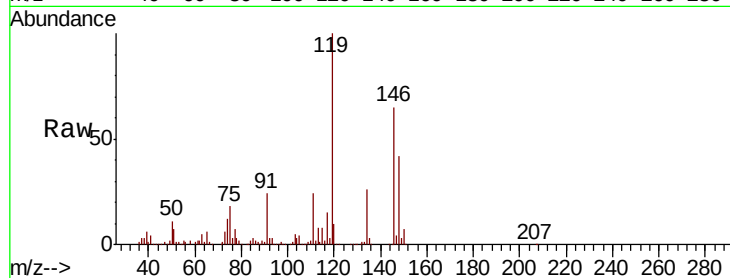
Tot Ion:146 Resp: 312599

Ion Ratio Lower Upper

146 100

111 37.5 19.1 57.1

148 64.7 31.9 95.9



#84

1,4-Dichlorobenzene

Concen: 18.70 ug/l

RT: 13.36 min Scan# 3662

Delta R.T. 0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

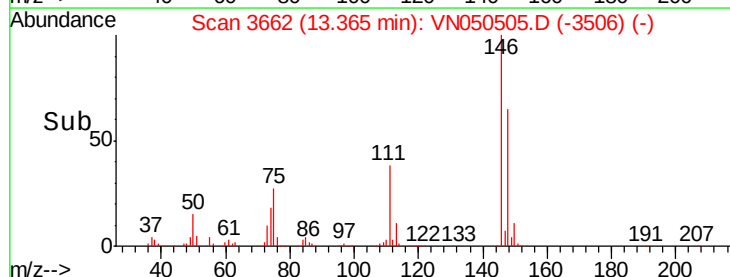
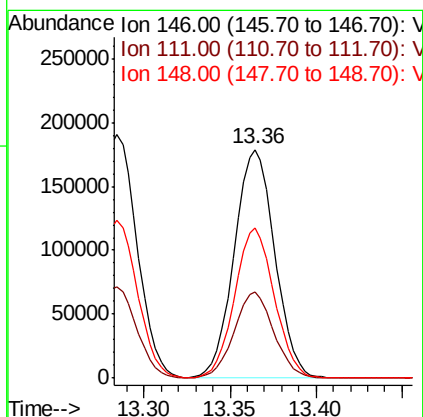
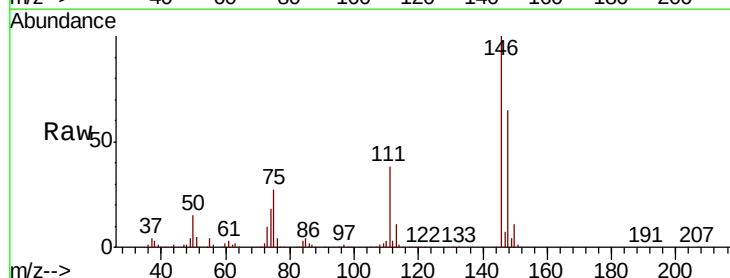
Tgt Ion:146 Resp: 294398

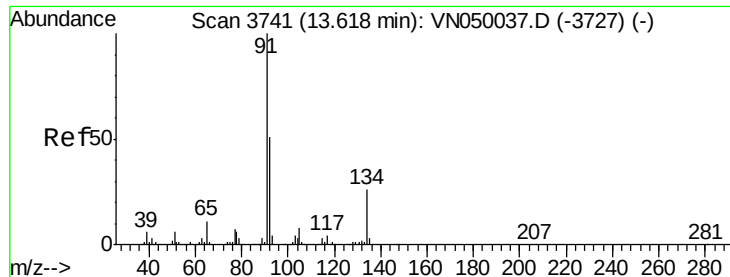
Ion Ratio Lower Upper

146 100

111 36.8 17.9 53.8

148 64.1 32.4 97.0





#85

n-Butylbenzene

Concen: 16.69 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. -0.00 min

Lab File: VN050505.D

Acq: 10 Aug 2018 00:06

Instrument :

MSVOA\_N

ClientSampleId :

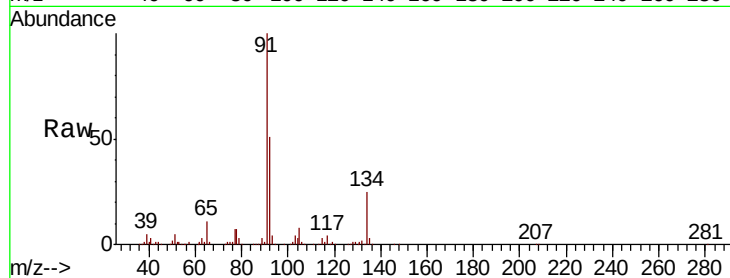
Tot Ion: 91 Resp: 395885

Ion Ratio Lower Upper

91 100

92 51.2 0.0 102.8

134 25.5 0.0 51.0

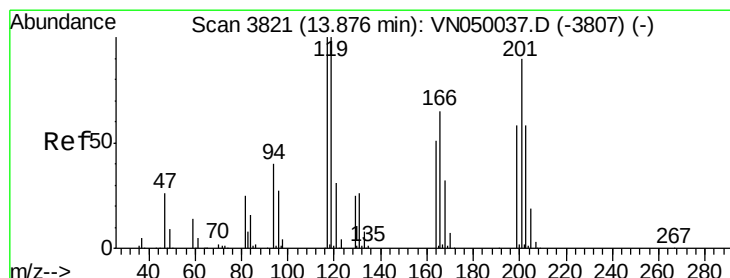
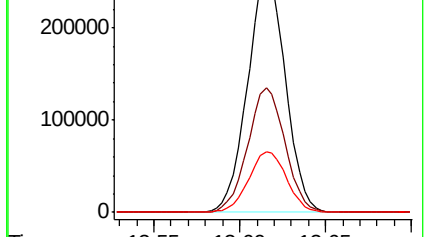
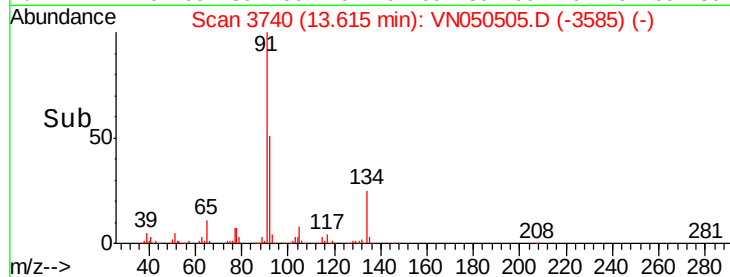


Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3727) (-)

Ion 92.00 (91.70 to 92.70): VN050037.D (-3727) (-)

Ion 134.00 (133.70 to 134.70): VN050037.D (-3727) (-)

Time-->



#86

Hexachloroethane

Concen: 15.50 ug/l

RT: 13.88 min Scan# 3821

Delta R.T. 0.00 min

Lab File: VN050505.D

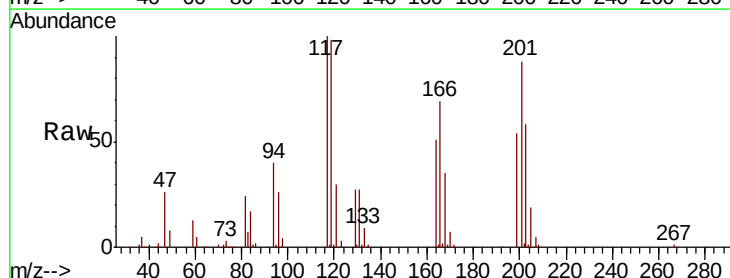
Acq: 10 Aug 2018 00:06

Tgt Ion: 117 Resp: 90546

Ion Ratio Lower Upper

117 100

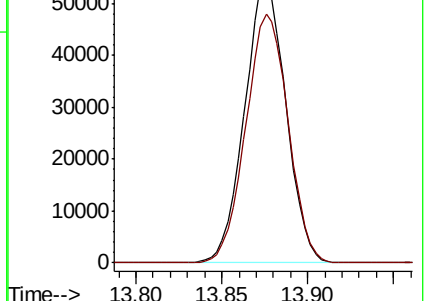
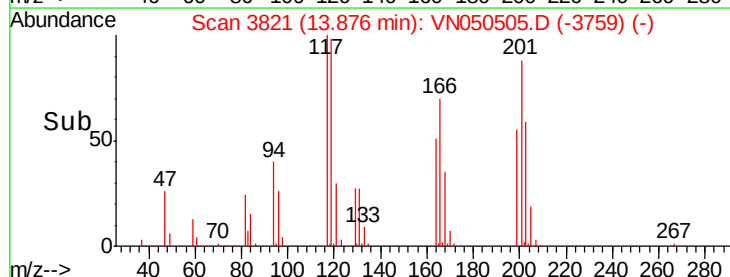
201 90.3 46.6 139.7

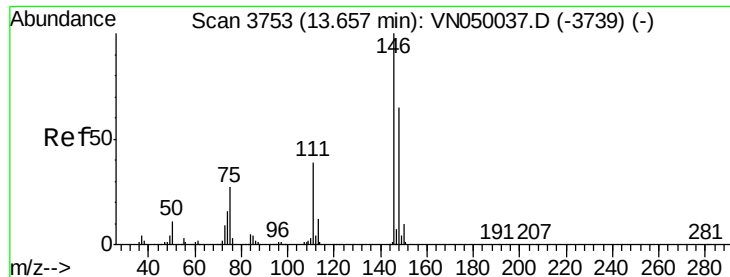


Abundance Ion 117.00 (116.70 to 117.70): VN050037.D (-3807) (-)

Ion 201.00 (200.70 to 201.70): VN050037.D (-3807) (-)

Time-->

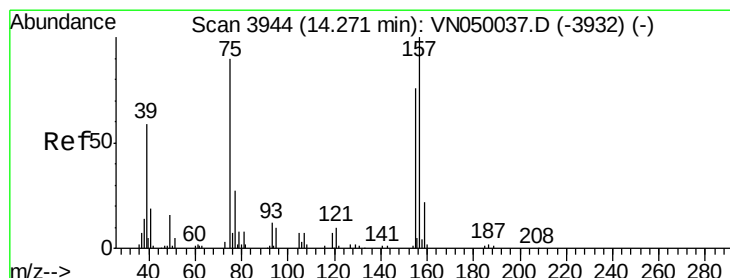
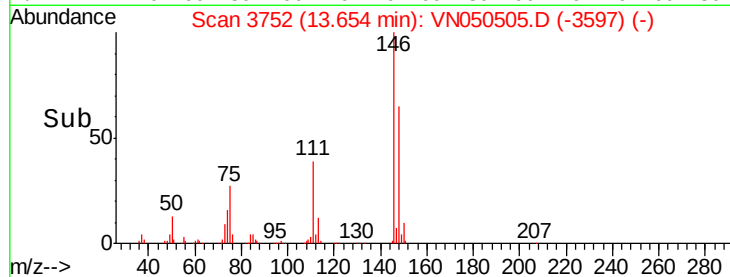
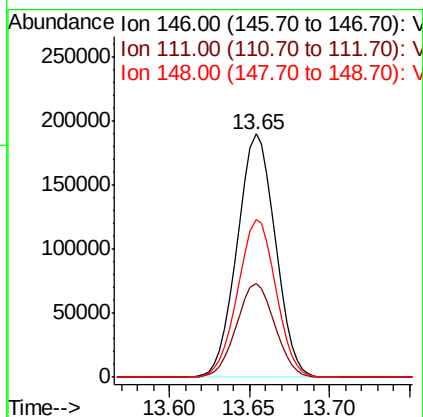
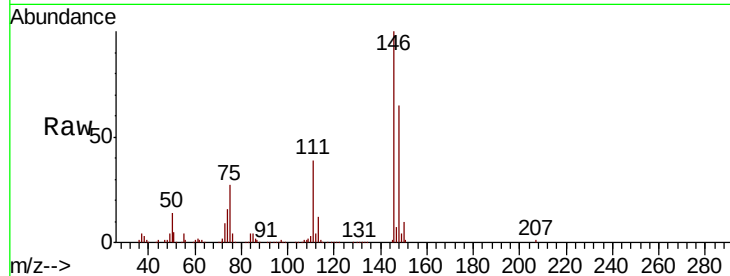




#87  
 1,2-Dichlorobenzene  
 Concen: 18.95 ug/l  
 RT: 13.65 min Scan# 3752  
 Delta R.T. -0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

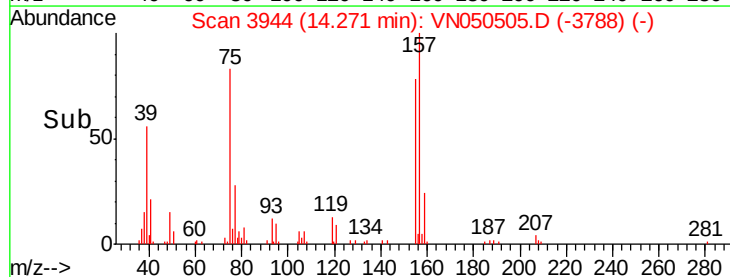
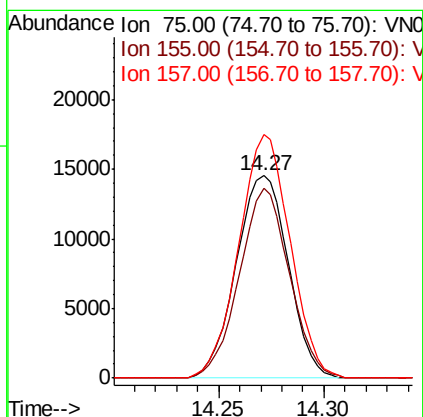
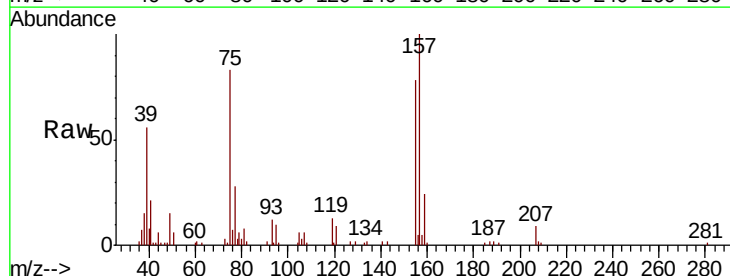
Instrument :  
 MSVOA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.9  | 19.8  | 59.3  |
| 148     | 64.9  | 31.8  | 95.3  |

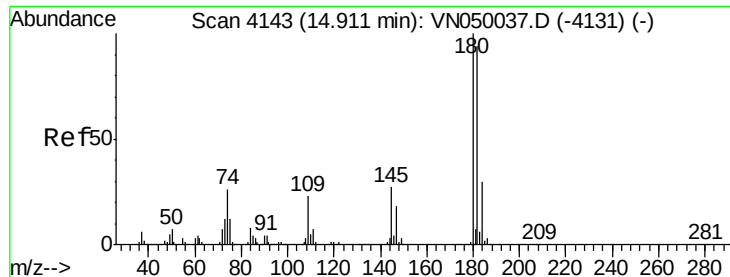


#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 16.24 ug/l  
 RT: 14.27 min Scan# 3944  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 90.1  | 73.0  | 109.6 |
| 157     | 118.4 | 94.9  | 142.3 |



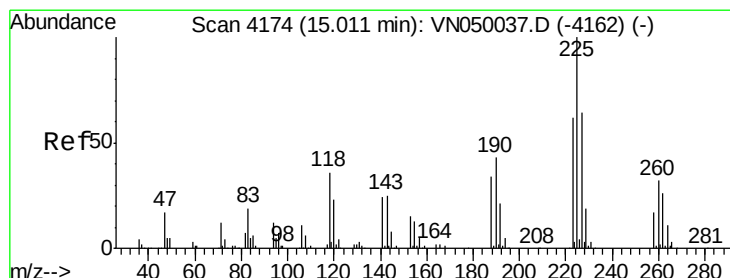
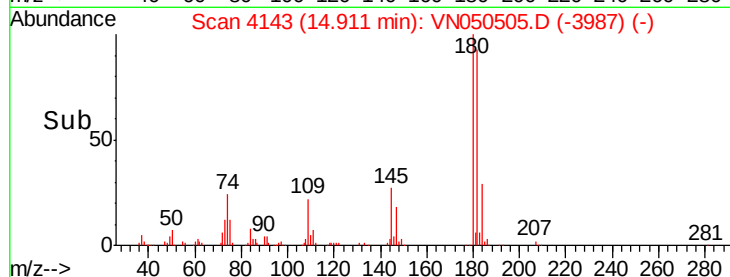
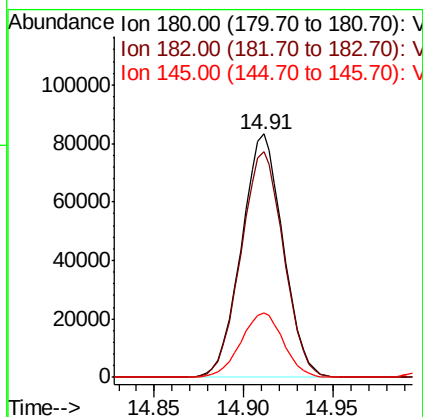
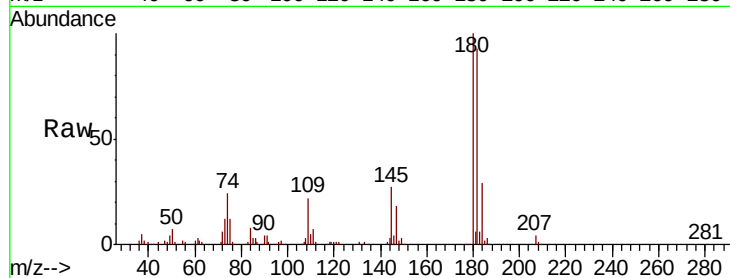




#89  
 1,2,4-Trichlorobenzene  
 Concen: 17.50 ug/l  
 RT: 14.91 min Scan# 4143  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

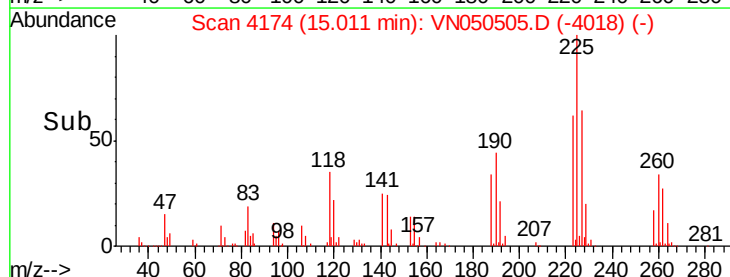
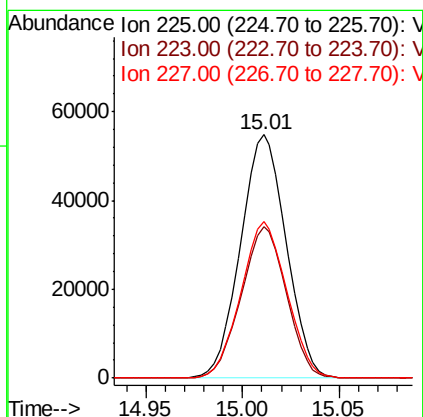
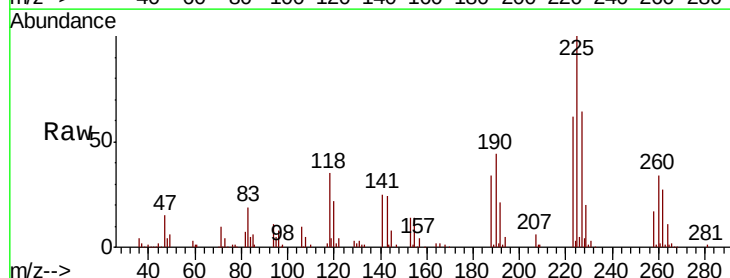
Instrument :  
 MSVOA\_N  
 ClientSampled :

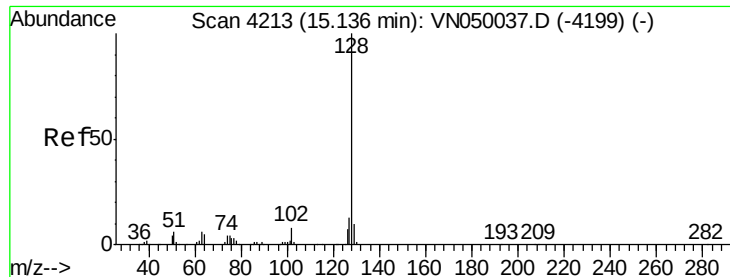
Tot Ion:180 Resp: 136129  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 76.7 115.1  
 145 27.1 23.4 35.0



#90  
 Hexachlorobutadiene  
 Concen: 17.57 ug/l  
 RT: 15.01 min Scan# 4174  
 Delta R.T. 0.00 min  
 Lab File: VN050505.D  
 Acq: 10 Aug 2018 00:06

Tgt Ion:225 Resp: 90101  
 Ion Ratio Lower Upper  
 225 100  
 223 61.5 0.0 124.4  
 227 64.4 0.0 133.0

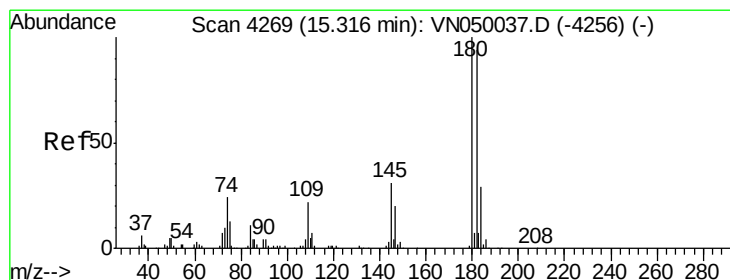
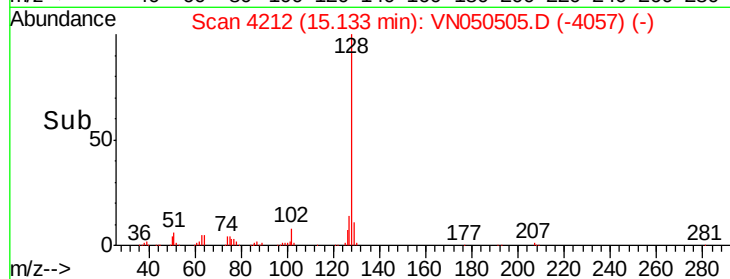
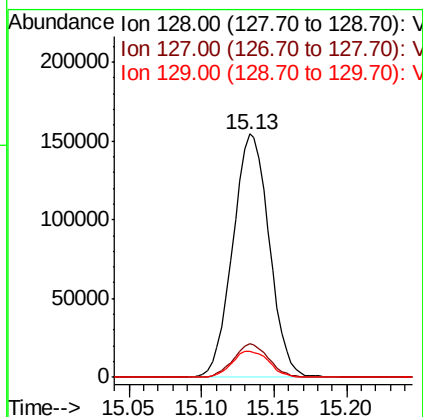
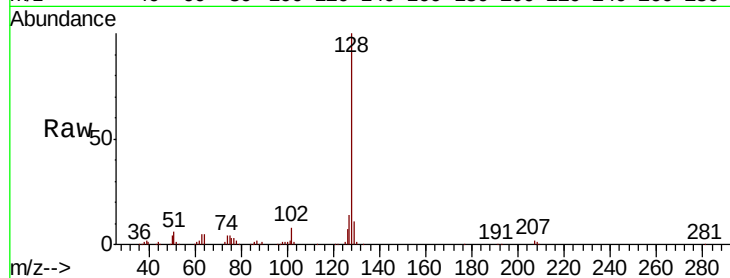




#91  
Naphthalene  
Concen: 18.70 ug/l  
RT: 15.13 min Scan# 4212  
Delta R.T. -0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:128 Resp: 269512  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.2 15.4  
129 10.9 9.0 13.4



#92  
1,2,3-Trichlorobenzene  
Concen: 17.03 ug/l  
RT: 15.32 min Scan# 4269  
Delta R.T. 0.00 min  
Lab File: VN050505.D  
Acq: 10 Aug 2018 00:06

Tgt Ion:180 Resp: 134711  
Ion Ratio Lower Upper  
180 100  
182 96.1 0.0 188.8  
145 30.0 0.0 60.8

