

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082418\  
 Data File : VN050865.D  
 Acq On : 24 Aug 2018 10:02  
 Operator : MD\SY  
 Sample : VN0824WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

Quant Time: Aug 24 14:03:27 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  | 114958   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 611130   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 541207   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 220720   | 28.25    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 94.17%  |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 244123   | 29.36    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 97.87%  |
| 63) Toluene-d8            | 10.09  | 98    | 779634   | 30.16    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.53% |

## Target Compounds

|                               |      |     |        |               | Ovalue |
|-------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 181357 | 22.893 ug/l   | 98     |
| 3) Chloromethane              | 2.06 | 50  | 199806 | 24.463 ug/l   | 100    |
| 4) Vinyl Chloride             | 2.18 | 62  | 193801 | 22.287 ug/l   | 97     |
| 5) Bromomethane               | 2.57 | 94  | 117437 | 22.154 ug/l   | 96     |
| 6) Chloroethane               | 2.70 | 64  | 111971 | 21.772 ug/l   | 97     |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 253574 | 22.316 ug/l   | 100    |
| 8) Diethyl Ether              | 3.41 | 74  | 84183  | 22.086 ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 159003 | 23.002 ug/l   | 100    |
| 10) 1,1-Dichloroethene        | 3.73 | 96  | 139648 | 22.784 ug/l   | 94     |
| 11) Methyl Iodide             | 3.95 | 142 | 113335 | 12.567 ug/l   | 99     |
| 12) Methyl Acetate            | 4.33 | 43  | 141996 | 20.224 ug/l   | 94     |
| 13) Acrolein                  | 3.61 | 56  | 18703  | 43.104 ug/l # | 57     |
| 14) Acrylonitrile             | 4.99 | 53  | 241792 | 103.206 ug/l  | 99     |
| 15) Acetone                   | 3.82 | 58  | 63823  | 102.505 ug/l  | 82     |
| 16) Carbon Disulfide          | 4.05 | 76  | 425215 | 22.670 ug/l   | 100    |
| 17) Allyl chloride            | 4.32 | 41  | 211405 | 21.840 ug/l   | 95     |
| 18) Methylene Chloride        | 4.55 | 84  | 164641 | 23.278 ug/l   | 98     |
| 19) trans-1,2-Dichloroethene  | 5.04 | 96  | 149220 | 22.740 ug/l   | 95     |
| 20) Diisopropyl ether         | 5.96 | 45  | 459566 | 23.155 ug/l   | 99     |
| 21) 1,1-Dichloroethane        | 5.85 | 63  | 278189 | 22.291 ug/l   | 99     |
| 22) cis-1,2-Dichloroethene    | 6.83 | 96  | 163647 | 22.488 ug/l   | 99     |
| 23) tert-Butyl Alcohol        | 4.79 | 59  | 46856  | 89.505 ug/l # | 100    |
| 24) Methyl tert-Butyl Ether   | 5.05 | 73  | 360556 | 21.570 ug/l   | 98     |
| 25) Chloroform                | 7.37 | 83  | 279264 | 22.105 ug/l   | 97     |
| 26) Cyclohexane               | 7.65 | 56  | 231542 | 23.348 ug/l # | 99     |
| 29) 1,1-Dichloropropene       | 7.79 | 75  | 207923 | 21.923 ug/l   | 100    |
| 30) 2-Butanone                | 6.84 | 43  | 264494 | 88.871 ug/l   | 96     |
| 31) 2,2-Dichloropropane       | 6.83 | 77  | 221075 | 21.088 ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 235322 | 21.080 ug/l   | 99     |
| 33) Carbon Tetrachloride      | 7.77 | 117 | 211893 | 21.293 ug/l   | 99     |
| 34) Benzene                   | 8.04 | 78  | 644747 | 22.384 ug/l   | 97     |
| 35) Methacrylonitrile         | 7.18 | 41  | 52571  | 15.514 ug/l   | 98     |
| 36) 1,2-Dichloroethane        | 8.13 | 62  | 190387 | 20.131 ug/l   | 99     |
| 37) Trichloroethene           | 8.84 | 130 | 166473 | 22.037 ug/l   | 99     |
| 38) Methylcyclohexane         | 9.08 | 83  | 218354 | 21.839 ug/l   | 99     |
| 39) 1,2-Dichloropropane       | 9.12 | 63  | 168326 | 22.184 ug/l   | 98     |
| 40) Dibromomethane            | 9.21 | 93  | 98655  | 21.037 ug/l   | 99     |

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 Sample : VN0824WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

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 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) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 9.40  | 83   | 209934   | 21.222  | ug/l  | 99       |
| 42) Vinyl Acetate              | 5.90  | 43   | 1403388  | 100.206 | ug/l  | 100      |
| 43) Ethyl Acetate              | 6.93  | 43   | 119130   | 19.169  | ug/l  | 94       |
| 45) 1,4-Dioxane                | 9.20  | 88   | 29474    | 389.061 | ug/l  | 93       |
| 46) Methyl methacrylate        | 9.20  | 41   | 102587   | 18.382  | ug/l  | 97       |
| 47) n-amyl Acetate             | 12.07 | 43   | 157370   | 17.567  | ug/l  | 96       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 199449   | 21.153  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene    | 9.84  | 75   | 237931   | 21.476  | ug/l  | 97       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 141060   | 20.956  | ug/l  | 97       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 156306   | 19.131  | ug/l  | 96       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 233694   | 21.142  | ug/l  | 100      |
| 53) Dibromochloromethane       | 10.90 | 129  | 156473   | 20.483  | ug/l  | 97       |
| 54) 1,2-Dibromoethane          | 11.01 | 107  | 136744   | 20.742  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.70  | 63   | 325689   | 88.078  | ug/l  | 99       |
| 56) Bromoform                  | 12.13 | 173  | 107021   | 19.840  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone       | 9.99  | 43   | 598252   | 94.999  | ug/l  | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 383233   | 89.202  | ug/l  | 99       |
| 61) Tetrachloroethene          | 10.63 | 164  | 151129   | 20.616  | ug/l  | 98       |
| 62) Toluene                    | 10.16 | 91   | 683412   | 22.133  | ug/l  | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 418683   | 22.360  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 157407   | 21.553  | ug/l  | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 686783   | 21.764  | ug/l  | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 544158   | 44.810  | ug/l  | 98       |
| 68) o-Xylene                   | 11.95 | 106  | 258812   | 22.400  | ug/l  | 99       |
| 69) Styrene                    | 11.96 | 104  | 401382   | 21.670  | ug/l  | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 677683   | 22.023  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 176406   | 20.880  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 199515   | 27.649  | ug/l  | 56       |
| 73) Bromobenzene               | 12.53 | 156  | 178557   | 21.783  | ug/l  | 97       |
| 74) n-propylbenzene            | 12.59 | 91   | 757195   | 21.128  | ug/l  | 99       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 469903   | 21.830  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 570993   | 22.592  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 40587    | 17.204  | ug/l  | 100      |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 454739   | 21.318  | ug/l  | 98       |
| 79) tert-butylbenzene          | 12.99 | 119  | 472025   | 21.845  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 566751   | 22.133  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 13.17 | 105  | 624577   | 21.278  | ug/l  | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 540394   | 21.576  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 291771   | 20.442  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 270979   | 20.090  | ug/l  | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 386564   | 19.018  | ug/l  | 99       |
| 86) Hexachloroethane           | 13.87 | 117  | 101789   | 20.337  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 288833   | 20.702  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 22591    | 17.164  | ug/l  | 98       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 106510   | 15.983  | ug/l  | 99       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 88748    | 20.199  | ug/l  | 98       |
| 91) Naphthalene                | 15.13 | 128  | 200237   | 17.227  | ug/l  | 98       |
| 92) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 112445   | 16.592  | ug/l  | 99       |

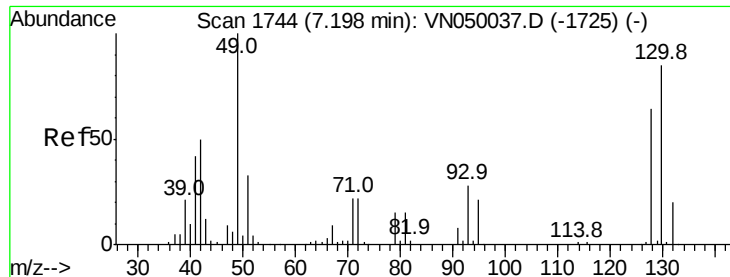
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082418\  
Data File : VN050865.D  
Acq On : 24 Aug 2018 10:02  
Operator : MD\SY  
Sample : VN0824WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 6 Sample Multiplier: 1

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VN0824WBSD01

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Response via : Initial Calibration

| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

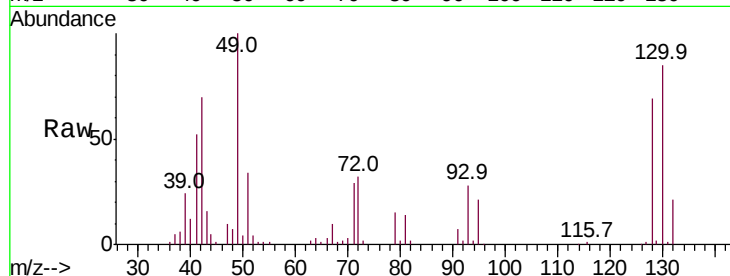
Tot Ion:128 Resp: 114958

Ion Ratio Lower Upper

128 100

49 151.0 0.0 378.3

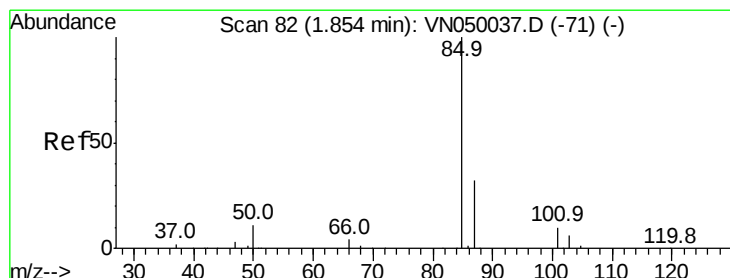
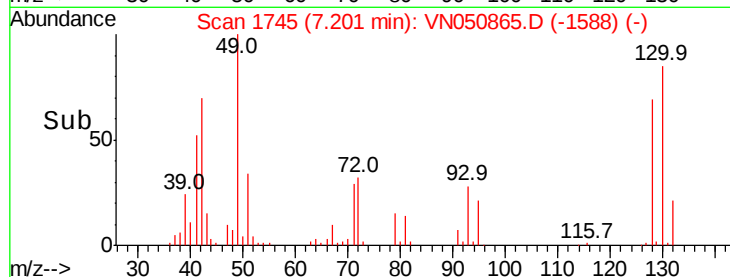
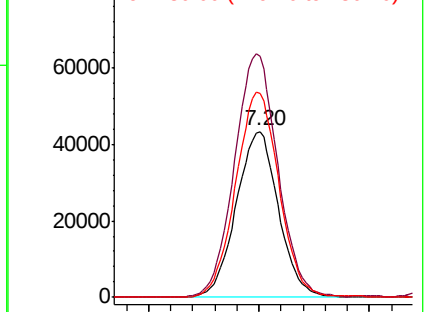
130 126.7 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 22.893 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050865.D

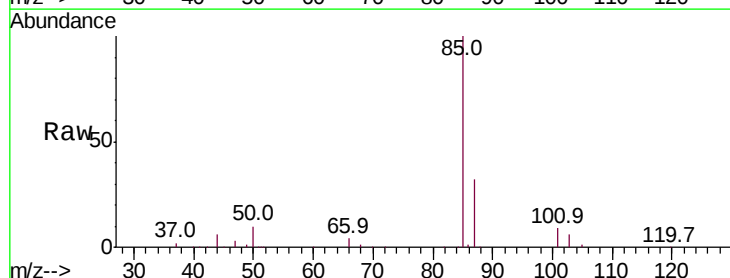
Acq: 24 Aug 2018 10:02

Tgt Ion: 85 Resp: 181357

Ion Ratio Lower Upper

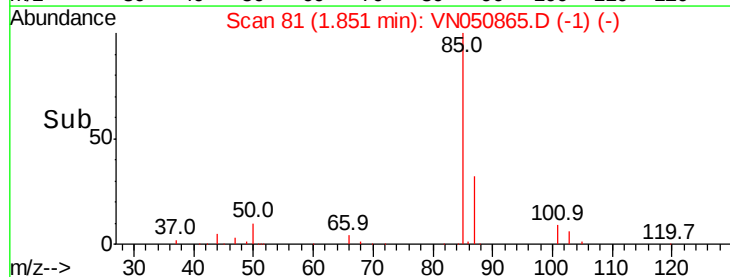
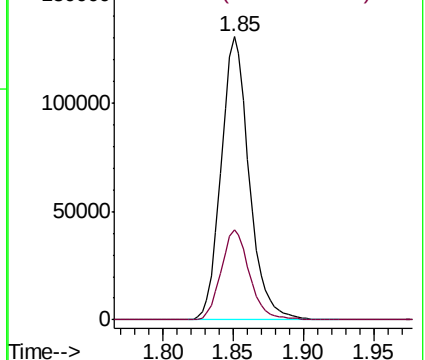
85 100

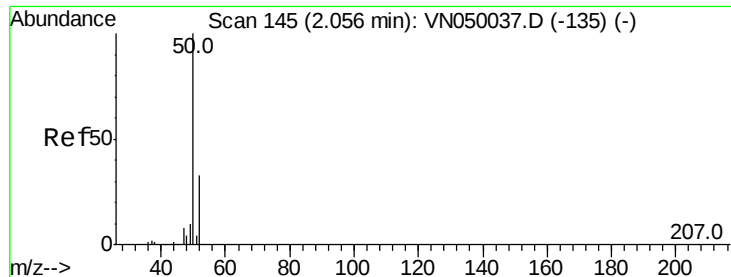
87 32.0 15.4 46.4



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 24.463 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

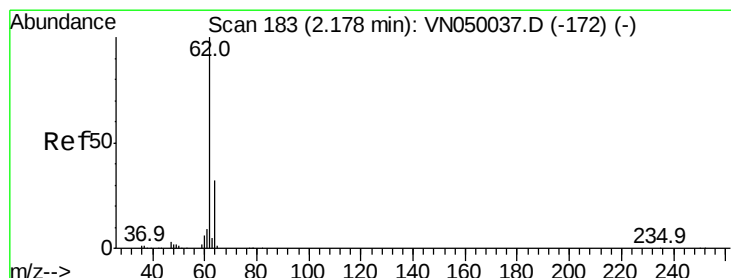
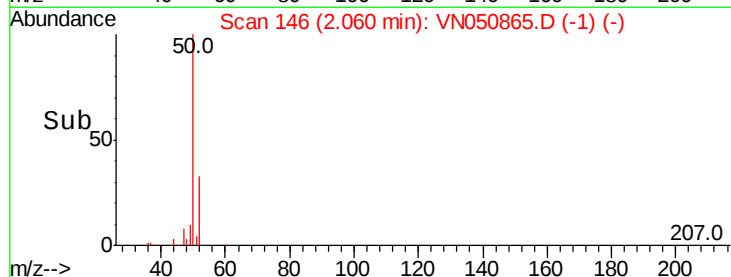
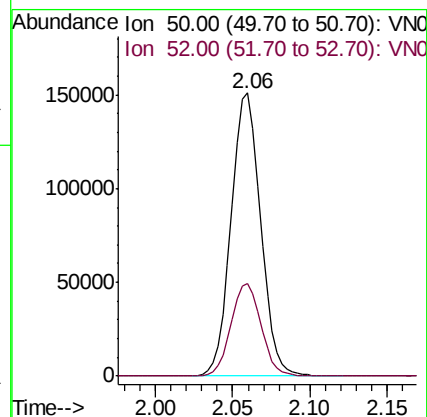
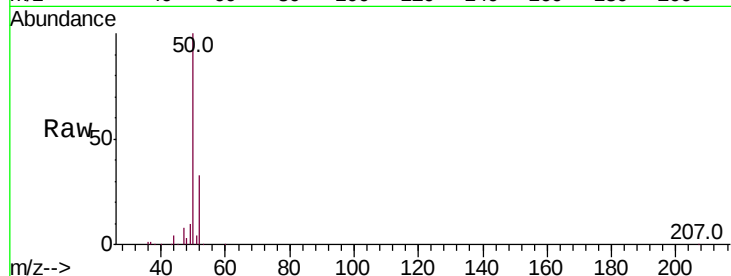
VN0824WBSD01

Tot Ion: 50 Resp: 199806

Ion Ratio Lower Upper

50 100

52 32.6 26.1 39.1



#4

Vinyl Chloride

Concen: 22.287 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050865.D

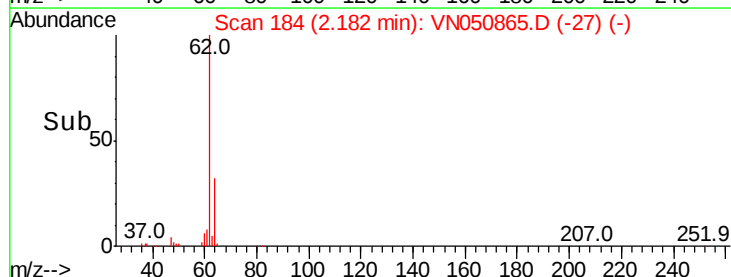
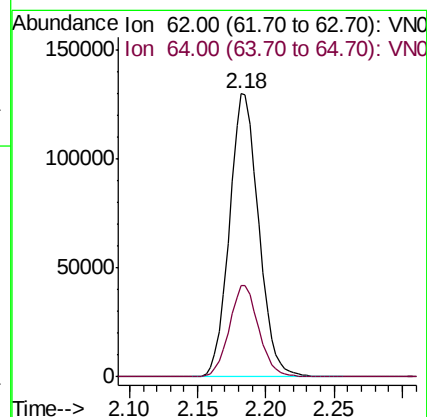
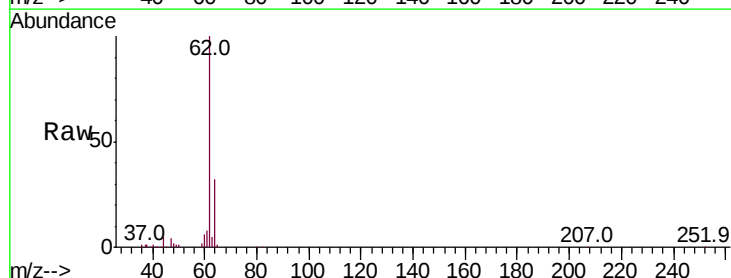
Acq: 24 Aug 2018 10:02

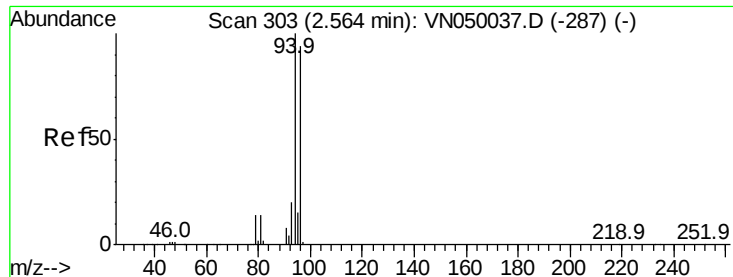
Tgt Ion: 62 Resp: 193801

Ion Ratio Lower Upper

62 100

64 32.3 24.4 36.6





#5

Bromomethane

Concen: 22.154 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

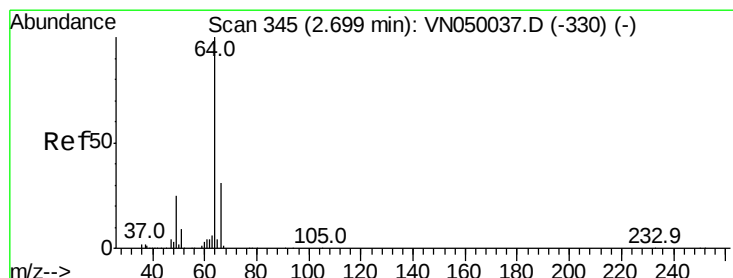
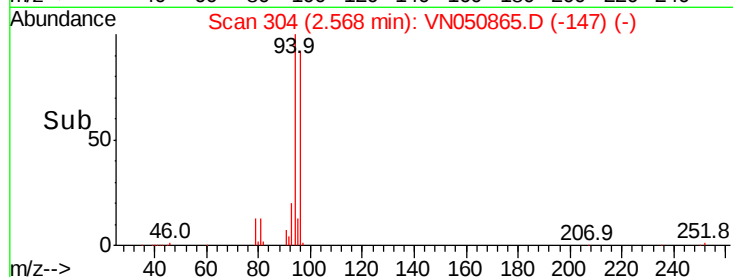
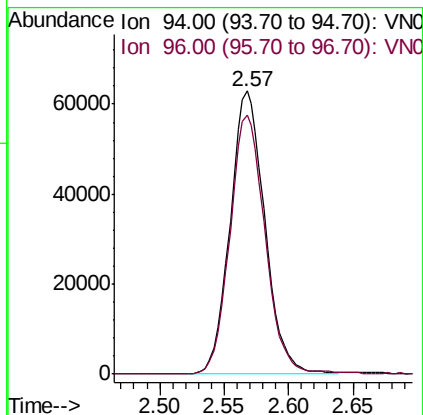
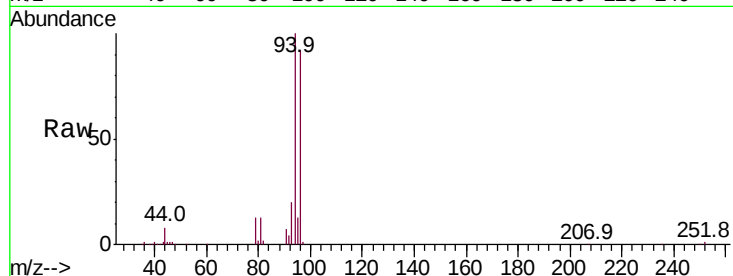
VN0824WBSD01

Tot Ion: 94 Resp: 117437

Ion Ratio Lower Upper

94 100

96 91.4 75.9 113.9



#6

Chloroethane

Concen: 21.772 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050865.D

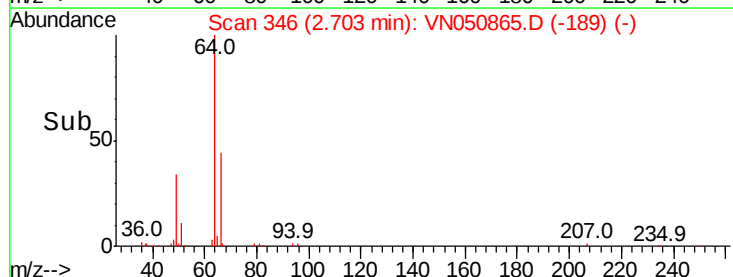
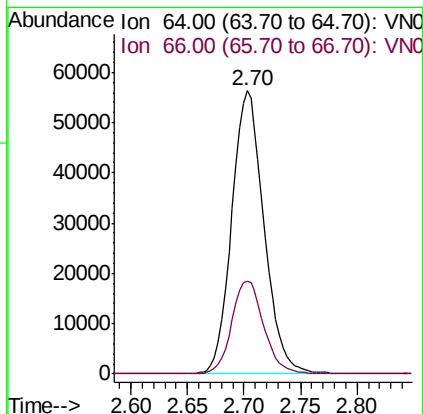
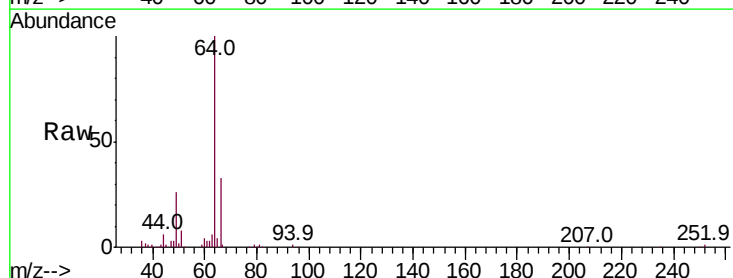
Acq: 24 Aug 2018 10:02

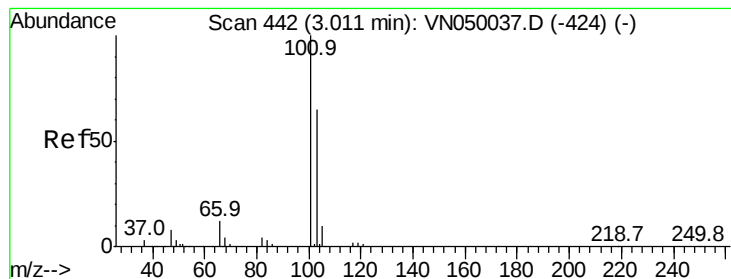
Tgt Ion: 64 Resp: 111971

Ion Ratio Lower Upper

64 100

66 32.6 25.0 37.4



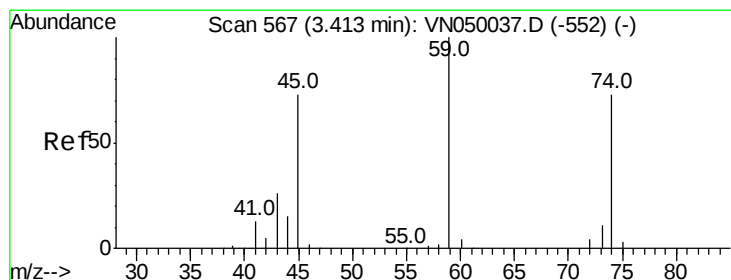
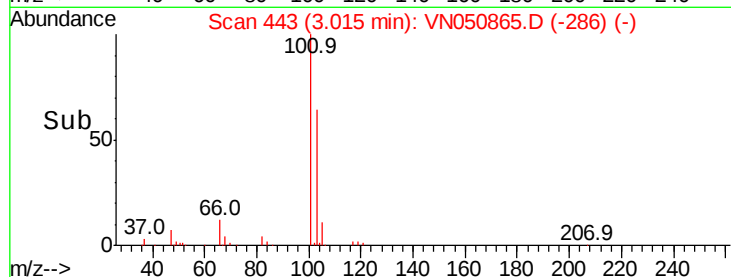
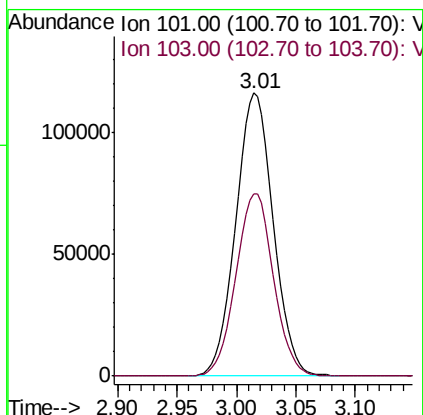
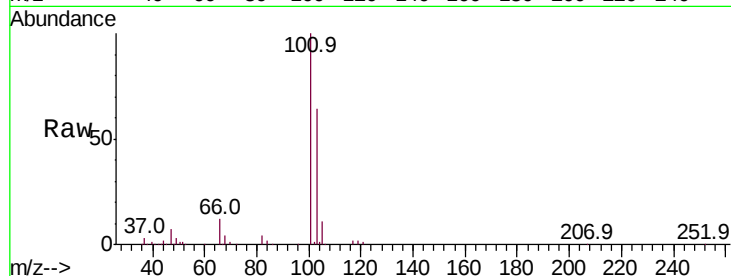


#7

Trichlorofluoromethane  
Concen: 22.316 ug/l  
RT: 3.01 min Scan# 443  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0824WBSD01

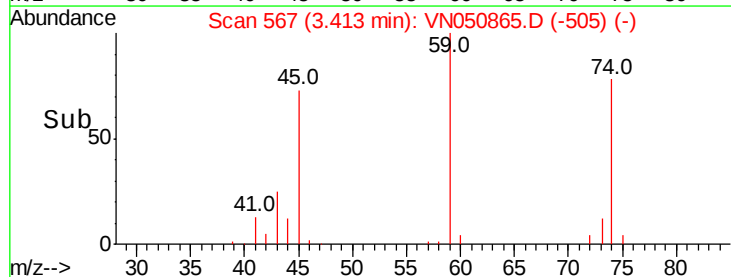
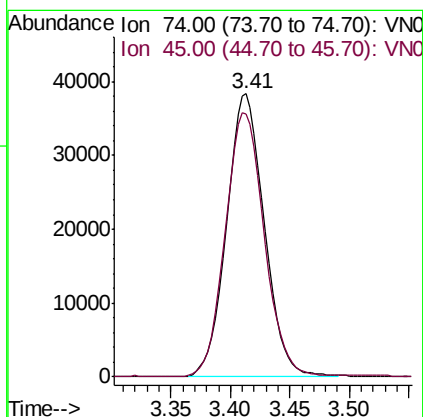
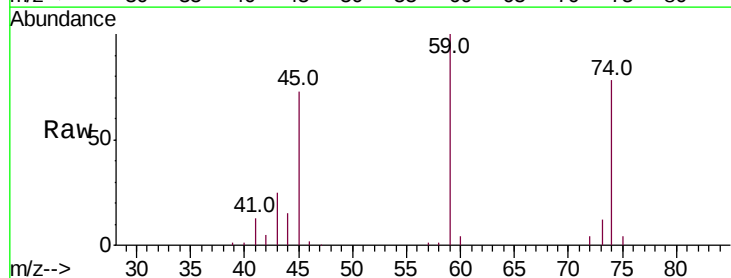
Tot Ion:101 Resp: 253574  
Ion Ratio Lower Upper  
101 100  
103 64.5 51.5 77.3

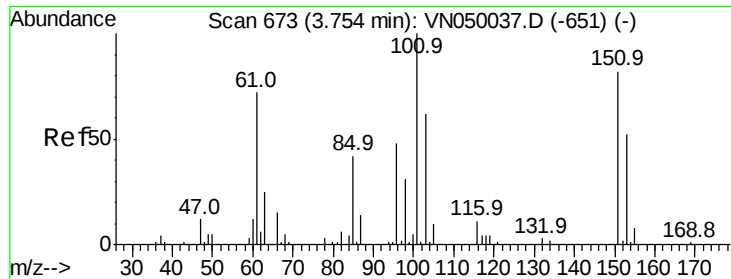


#8

Diethyl Ether  
Concen: 22.086 ug/l  
RT: 3.41 min Scan# 567  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 74 Resp: 84183  
Ion Ratio Lower Upper  
74 100  
45 96.6 18.7 167.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.002 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

VN0824WBSD01

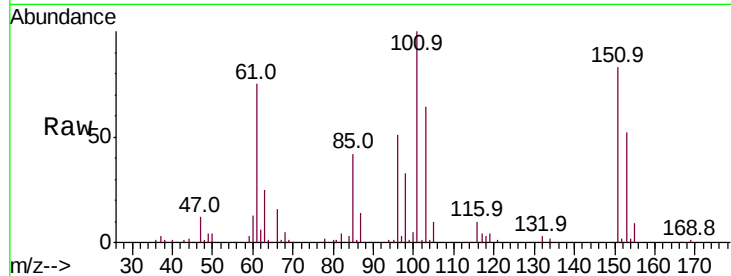
Tot Ion:101 Resp: 159003

Ion Ratio Lower Upper

101 100

85 41.2 0.0 83.0

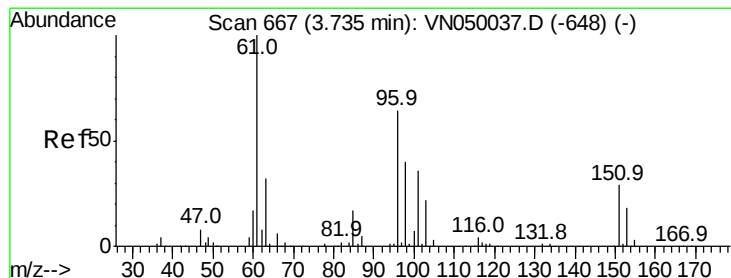
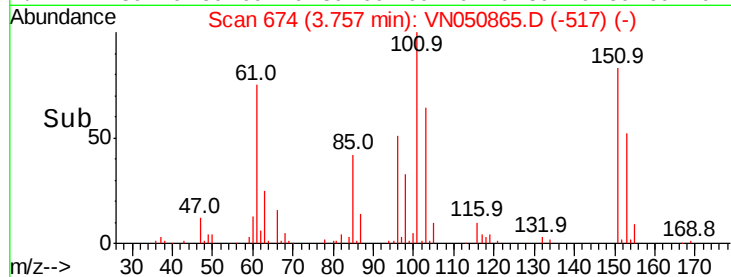
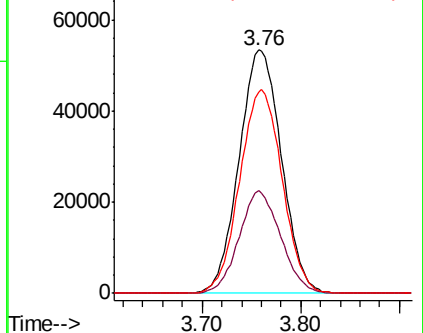
151 83.8 0.0 166.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 22.784 ug/l

RT: 3.73 min Scan# 667

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

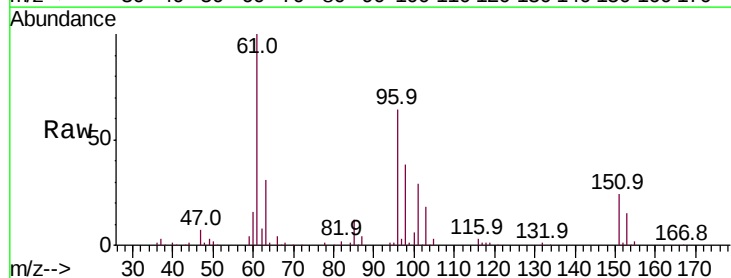
Tgt Ion: 96 Resp: 139648

Ion Ratio Lower Upper

96 100

61 157.0 130.6 195.8

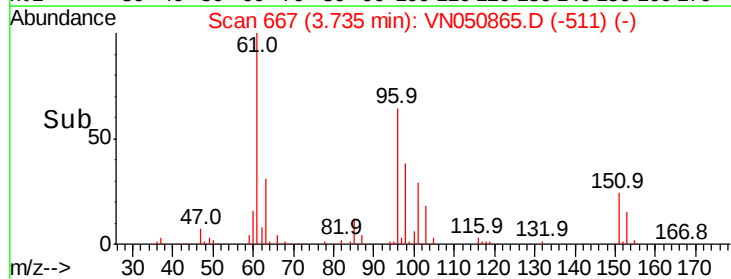
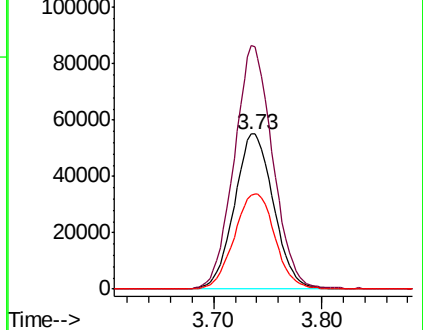
98 60.3 53.5 80.3

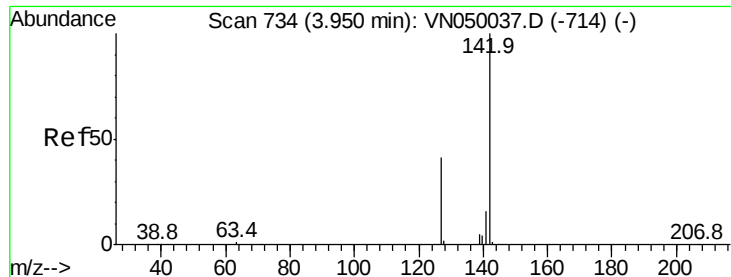


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

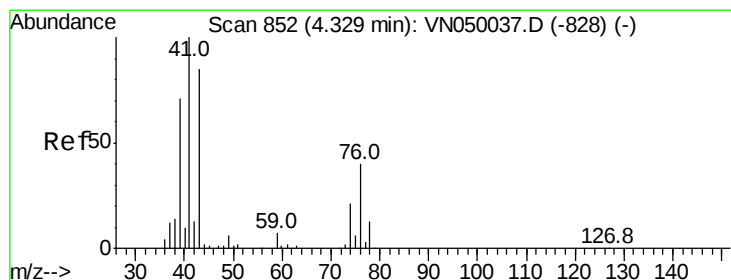
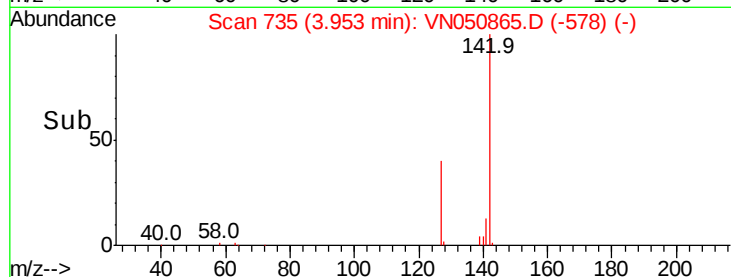
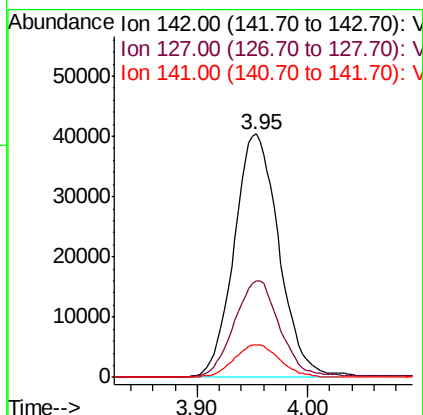
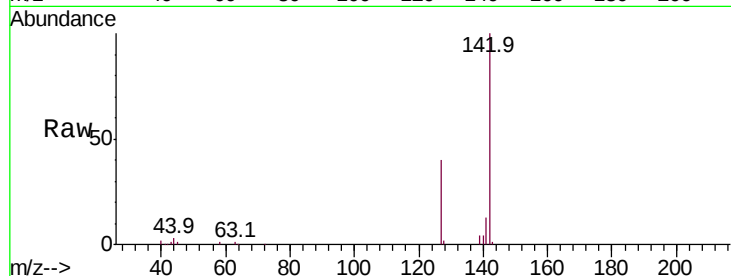




#11  
Methvl Iodide  
Concen: 12.567 ug/l  
RT: 3.95 min Scan# 735  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

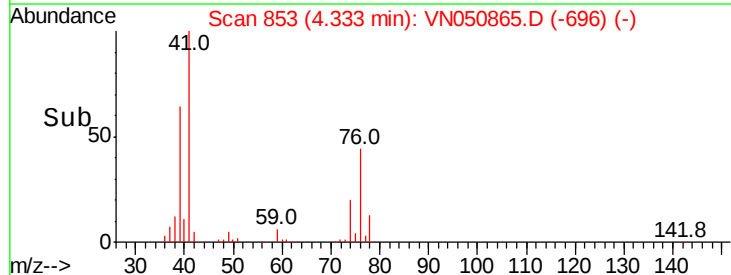
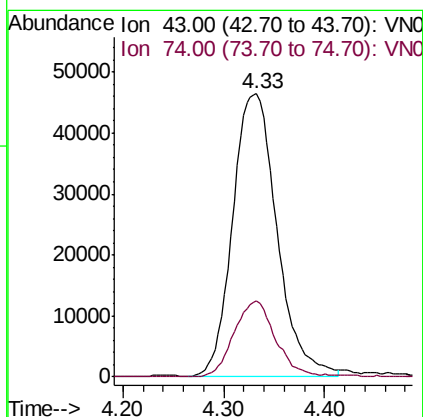
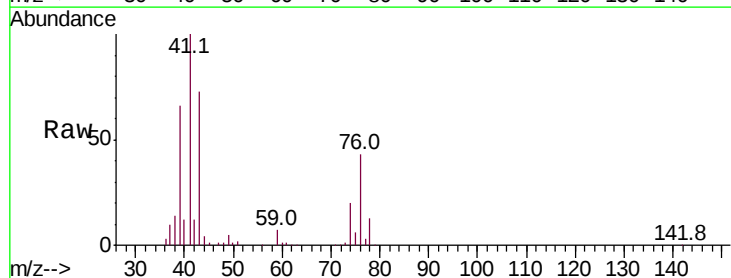
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

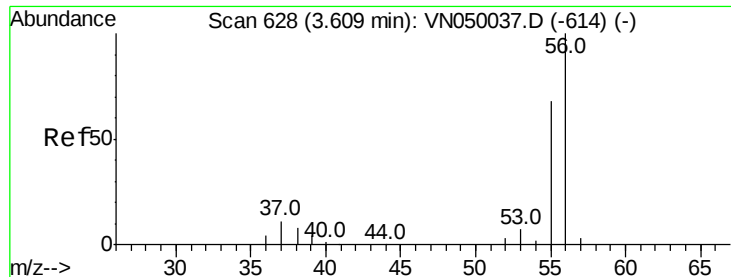
Tot Ion:142 Resp: 113335  
Ion Ratio Lower Upper  
142 100  
127 39.6 20.2 60.5  
141 13.3 6.9 20.6



#12  
Methyl Acetate  
Concen: 20.224 ug/l  
RT: 4.33 min Scan# 853  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 43 Resp: 141996  
Ion Ratio Lower Upper  
43 100  
74 26.9 19.3 28.9





#13

Acrolein

Concen: 43.104 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

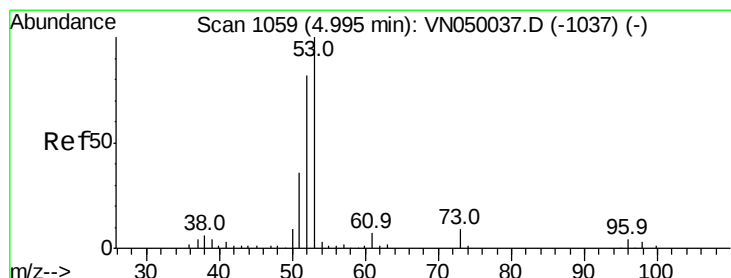
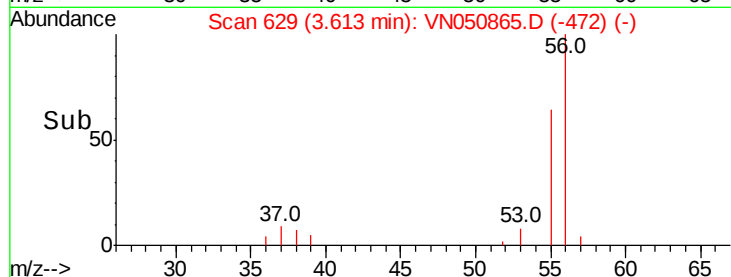
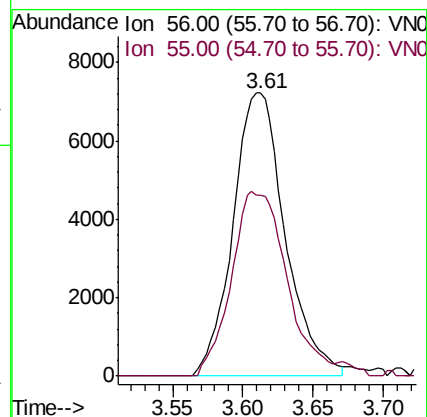
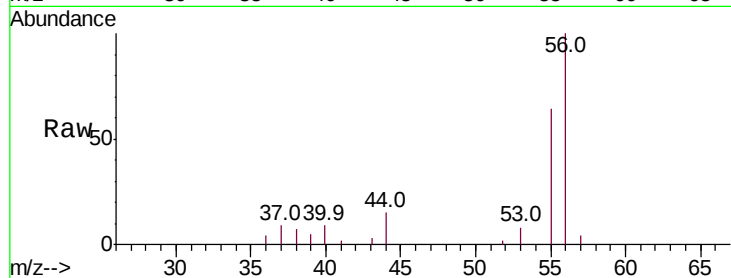
VN0824WBSD01

Tot Ion: 56 Resp: 18703

Ion Ratio Lower Upper

56 100

55 37.4 58.6 88.0#



#14

Acrylonitrile

Concen: 103.206 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

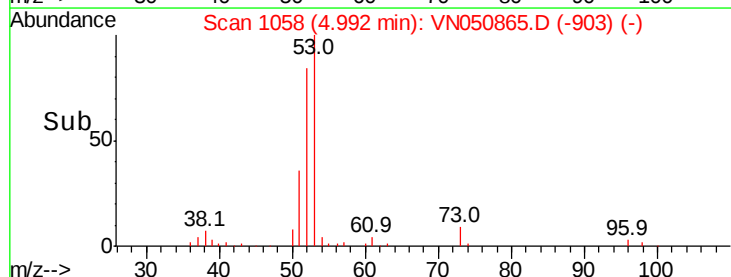
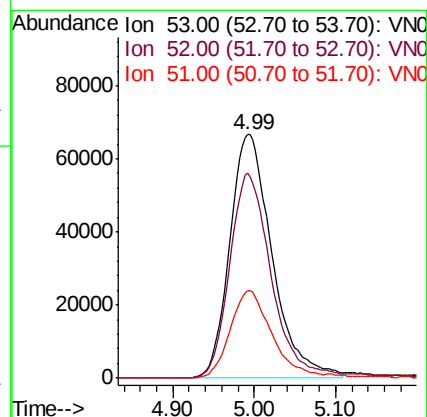
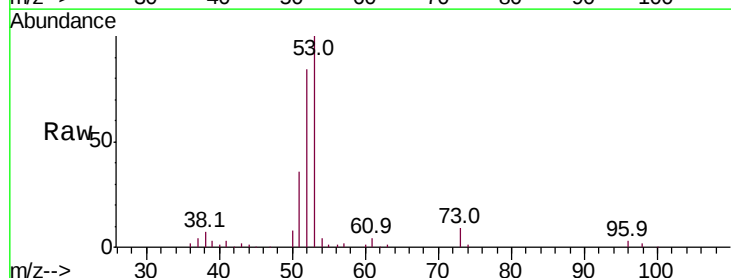
Tgt Ion: 53 Resp: 241792

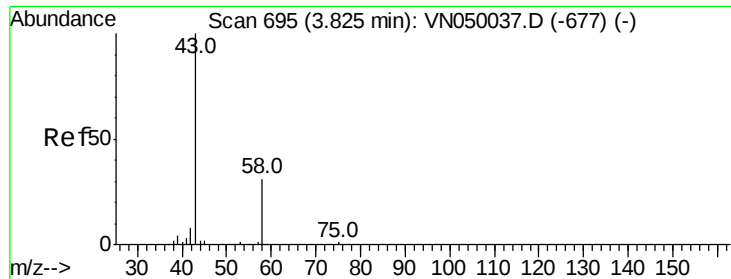
Ion Ratio Lower Upper

53 100

52 82.5 41.5 124.5

51 35.4 18.7 56.1





#15

Acetone

Concen: 102.505 ug/l

RT: 3.82 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

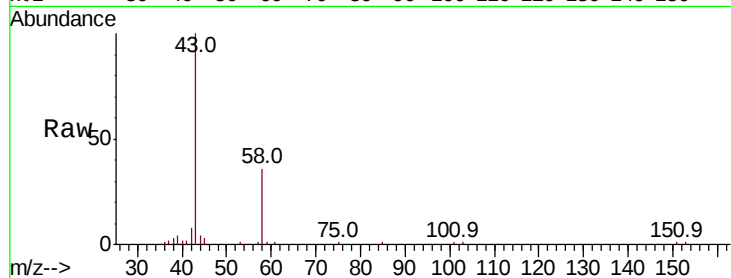
VN0824WBSD01

Tot Ion: 58 Resp: 63823

Ion Ratio Lower Upper

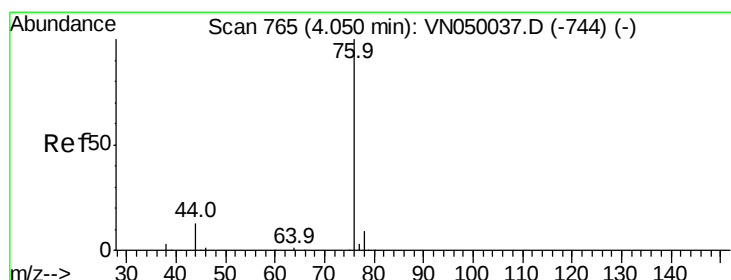
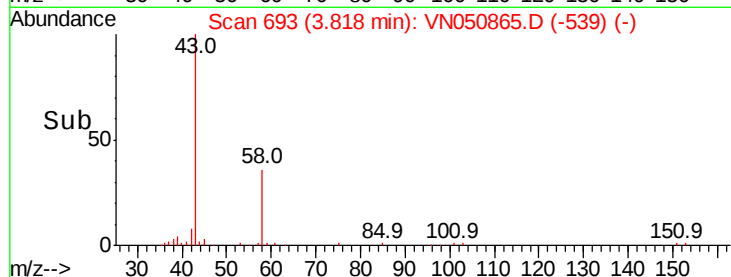
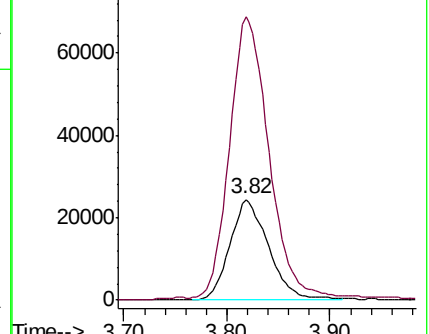
58 100

43 278.3 252.0 378.0



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 22.670 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050865.D

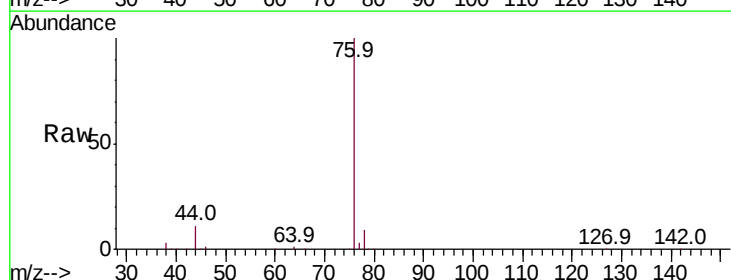
Acq: 24 Aug 2018 10:02

Tgt Ion: 76 Resp: 425215

Ion Ratio Lower Upper

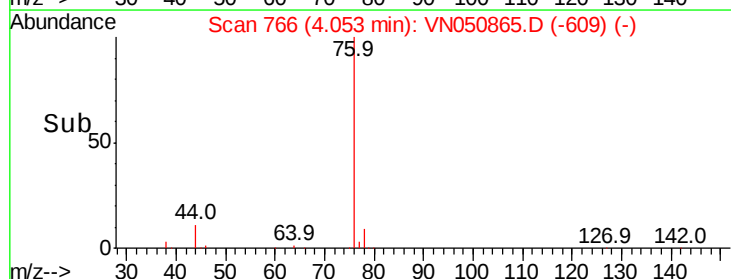
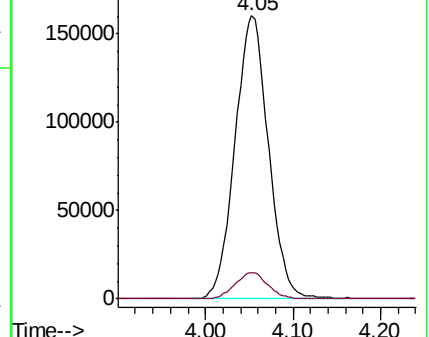
76 100

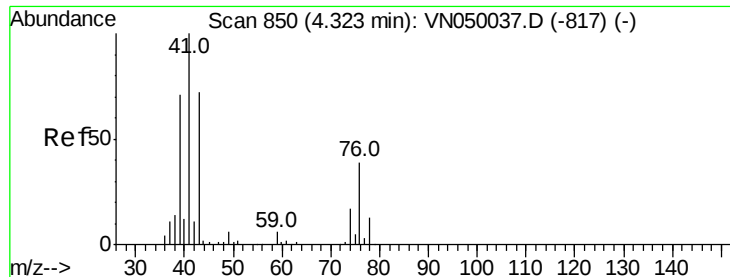
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

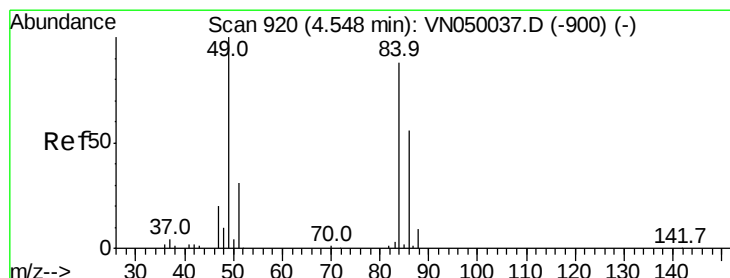
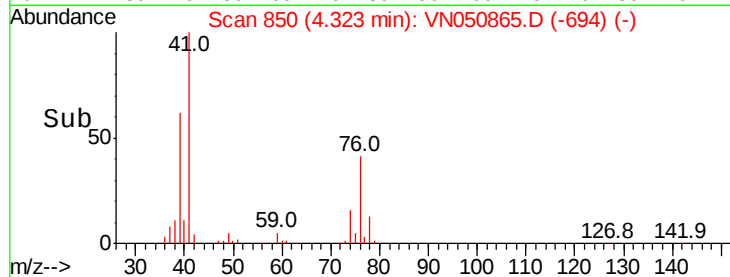
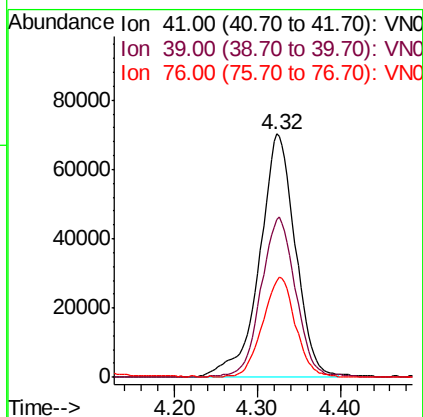
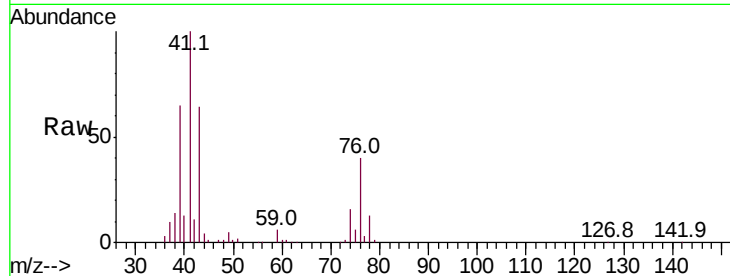




#17  
Allvl chloride  
Concen: 21.840 ug/l  
RT: 4.32 min Scan# 850  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

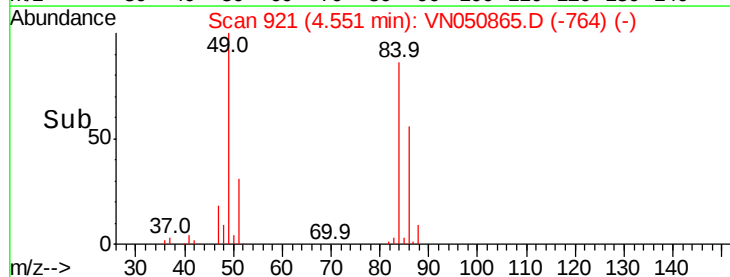
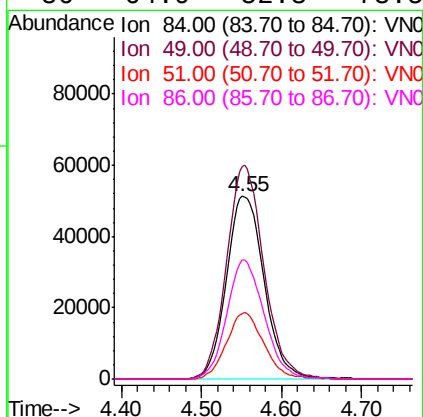
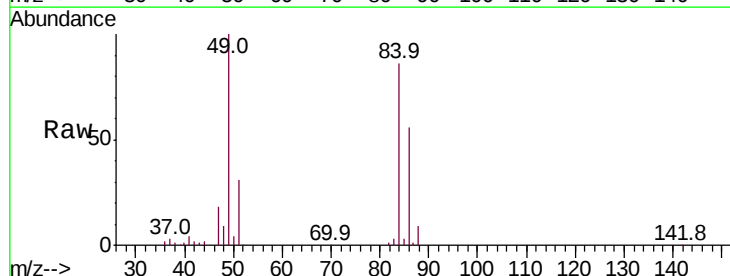
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

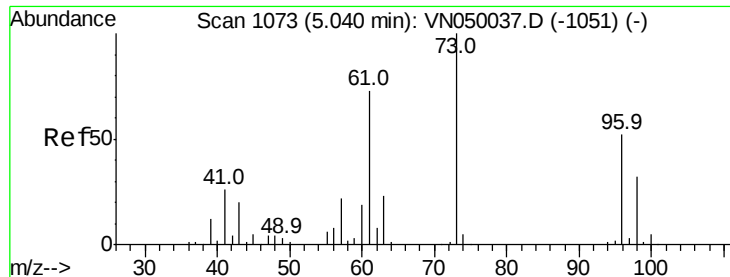
Tot Ion: 41 Resp: 211405  
Ion Ratio Lower Upper  
41 100  
39 64.9 35.4 106.3  
76 39.4 19.7 59.1



#18  
Methylene Chloride  
Concen: 23.278 ug/l  
RT: 4.55 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 84 Resp: 164641  
Ion Ratio Lower Upper  
84 100  
49 116.2 95.1 142.7  
51 35.8 28.8 43.2  
86 64.9 52.3 78.5

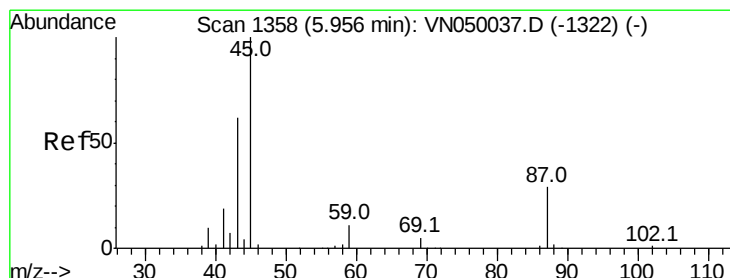
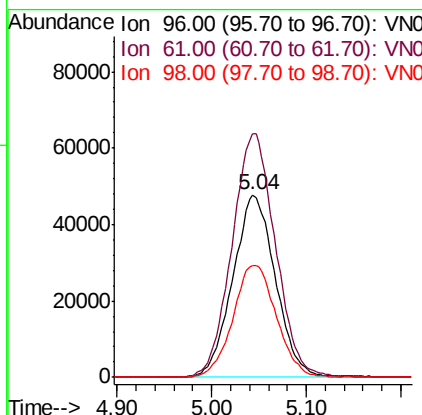
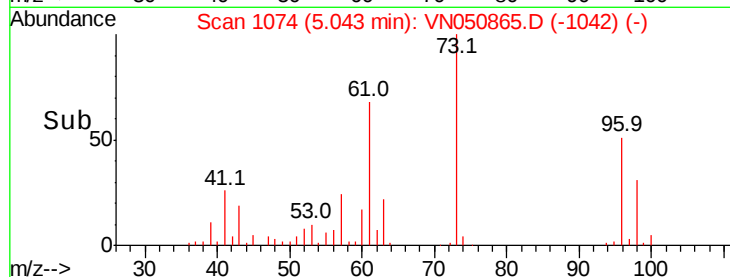
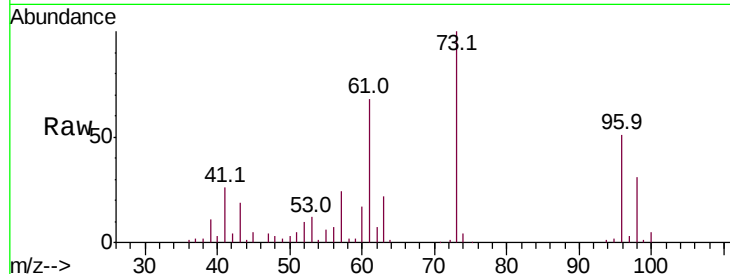




#19  
trans-1,2-Dichloroethene  
Concen: 22.740 ug/l  
RT: 5.04 min Scan# 1074  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

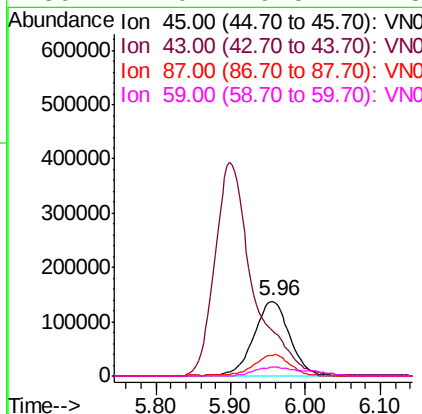
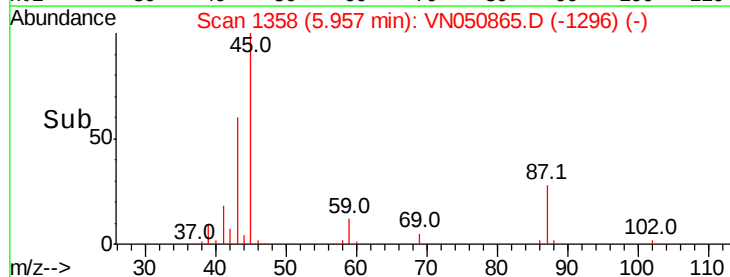
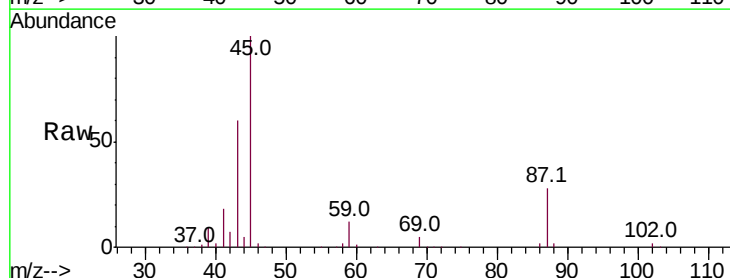
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

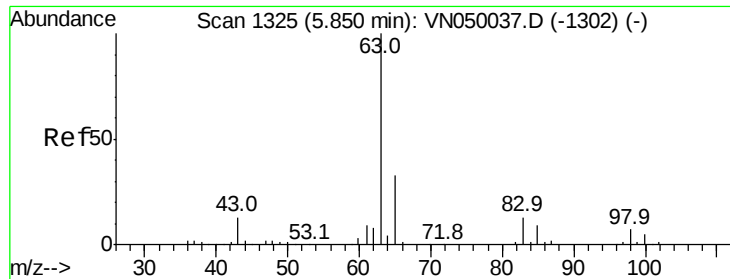
Tot Ion: 96 Resp: 149220  
Ion Ratio Lower Upper  
96 100  
61 132.8 112.1 168.1  
98 60.8 51.3 76.9



#20  
Diisopropyl ether  
Concen: 23.155 ug/l  
RT: 5.96 min Scan# 1358  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 45 Resp: 459566  
Ion Ratio Lower Upper  
45 100  
43 57.2 46.6 70.0  
87 28.1 22.3 33.5  
59 12.0 9.5 14.3

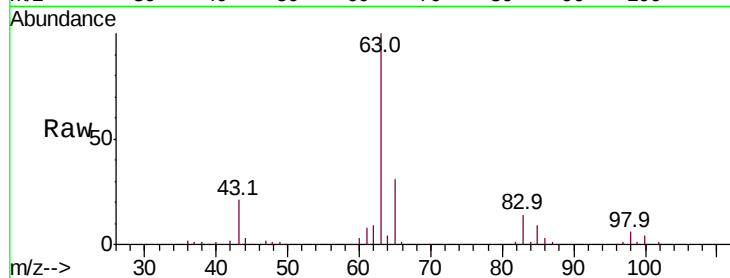




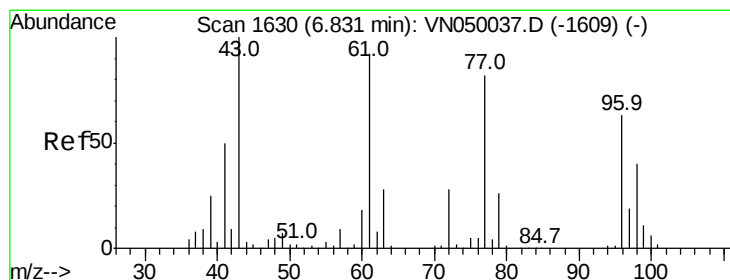
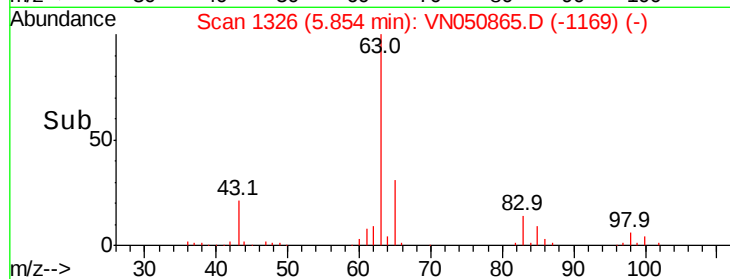
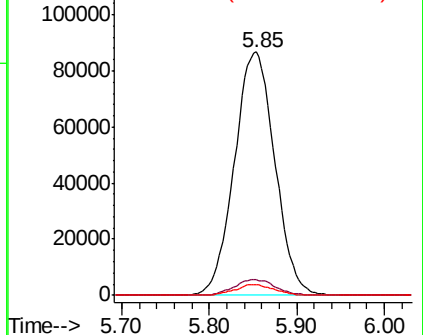
#21  
 1,1-Dichloroethane  
 Concen: 22.291 ug/l  
 RT: 5.85 min Scan# 1326  
 Delta R.T. 0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 6.4   | 3.5   | 10.6  |
| 100     | 4.4   | 2.3   | 6.8   |

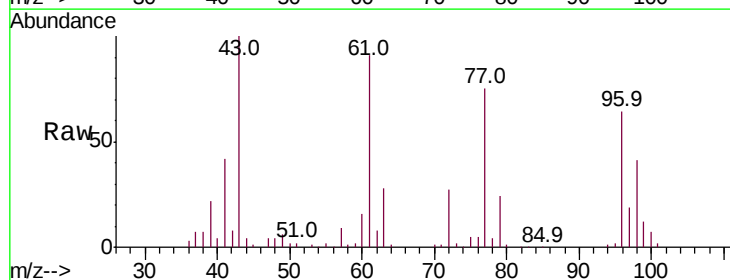


Abundance Ion 63.00 (62.70 to 63.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0  
 Ion 100.00 (99.70 to 100.70): VN0

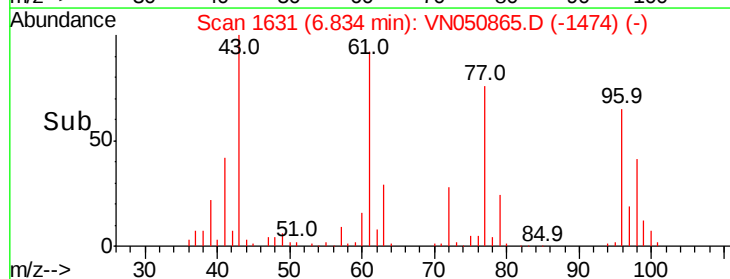
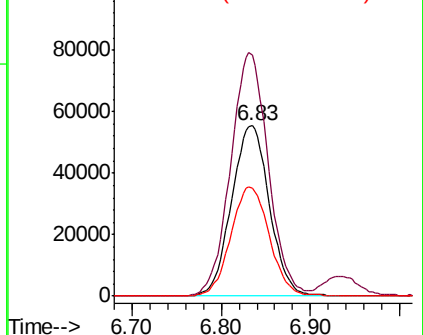


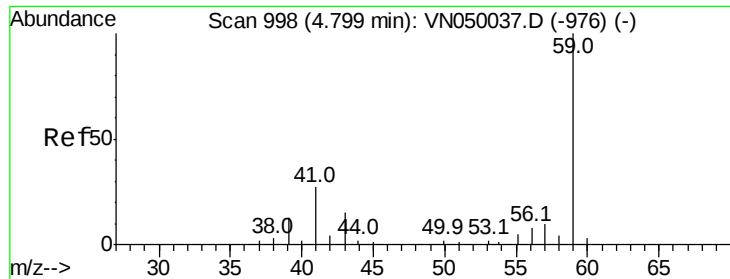
#22  
 cis-1,2-Dichloroethene  
 Concen: 22.488 ug/l  
 RT: 6.83 min Scan# 1631  
 Delta R.T. 0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 141.6 | 114.2 | 171.2 |
| 98      | 65.2  | 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: 89.505 ug/l

RT: 4.79 min Scan# 995

Delta R.T. -0.01 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

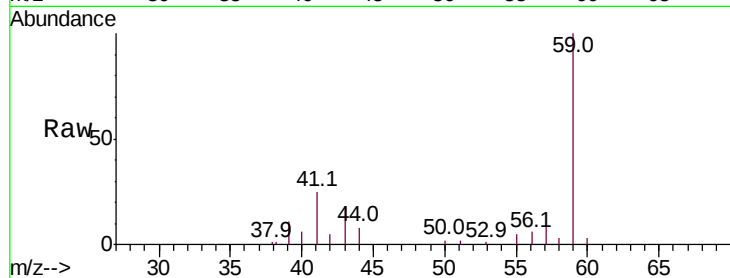
VN0824WBSD01

Tot Ion: 59 Resp: 46856

Ion Ratio Lower Upper

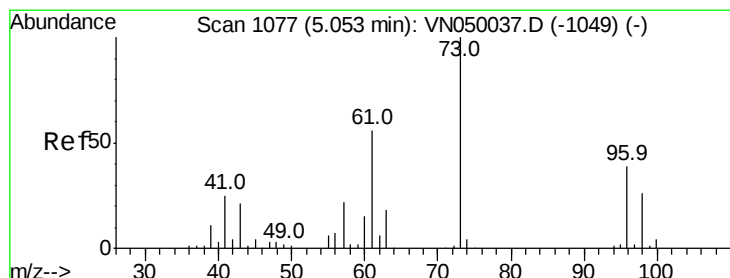
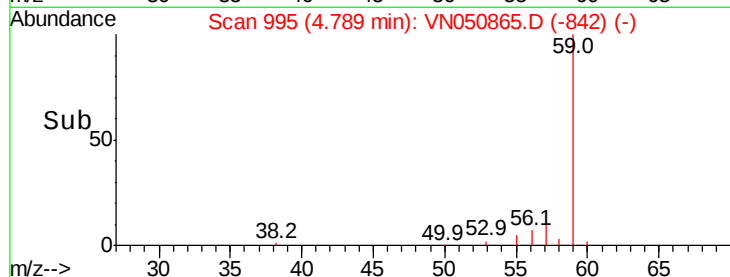
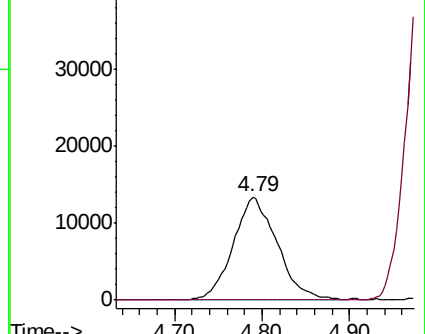
59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#24

Methyl tert-Butyl Ether

Concen: 21.570 ug/l

RT: 5.05 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VN050865.D

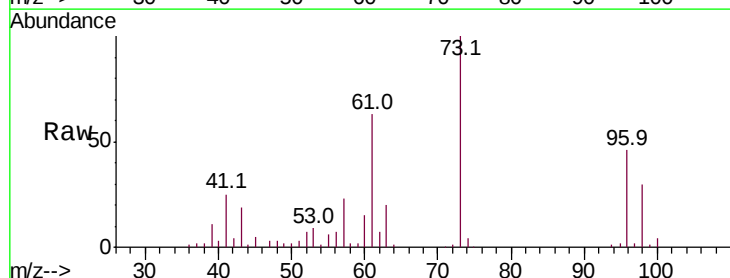
Acq: 24 Aug 2018 10:02

Tgt Ion: 73 Resp: 360556

Ion Ratio Lower Upper

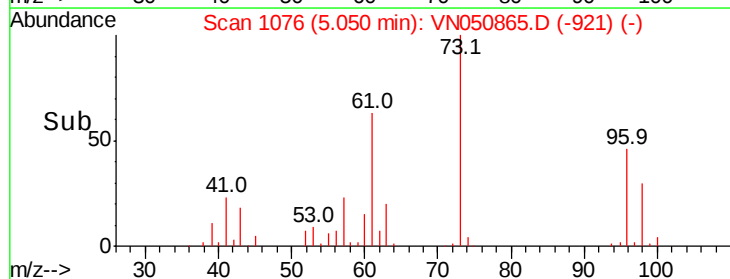
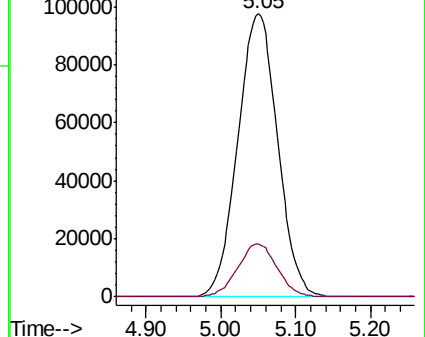
73 100

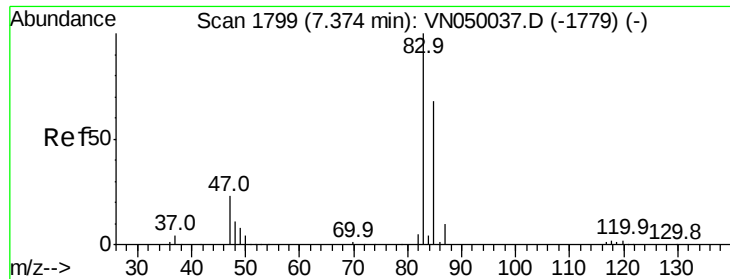
43 18.7 15.5 23.3



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#25

Chloroform

Concen: 22.105 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

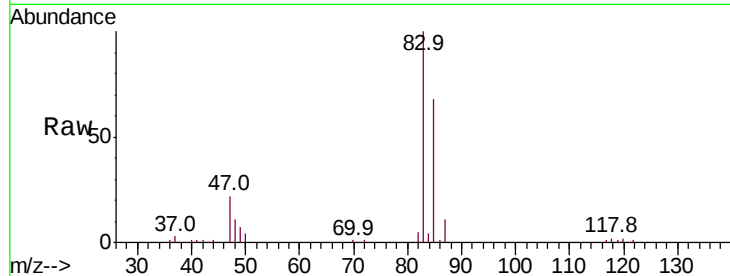
VN0824WBSD01

Tot Ion: 83 Resp: 279264

Ion Ratio Lower Upper

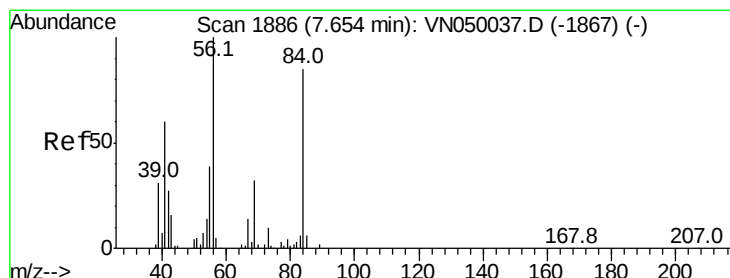
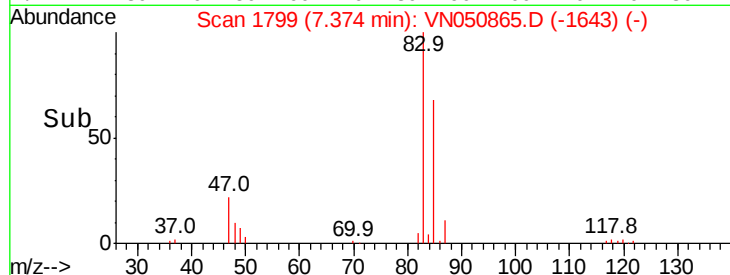
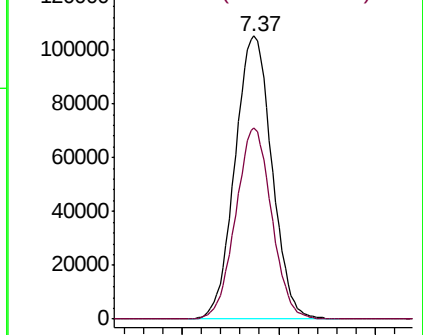
83 100

85 67.7 52.1 78.1



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#26

Cyclohexane

Concen: 23.348 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

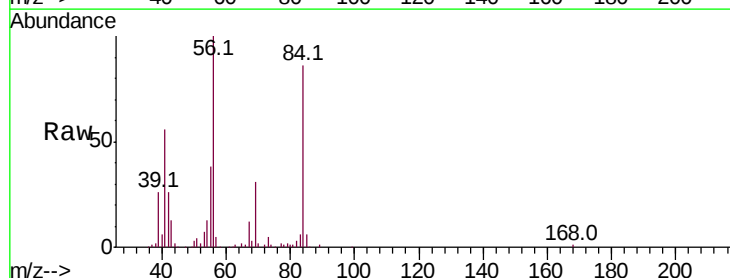
Tgt Ion: 56 Resp: 231542

Ion Ratio Lower Upper

56 100

89 1.6 3.0 4.4#

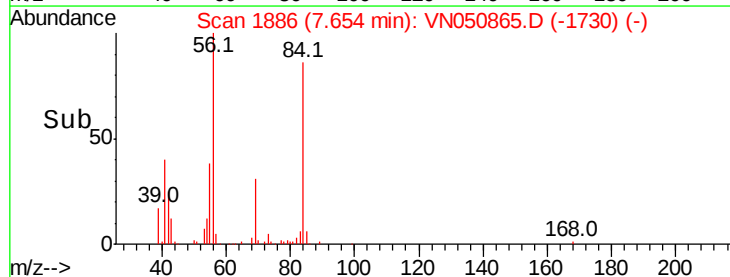
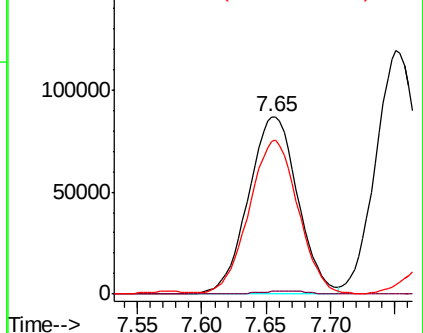
84 86.5 69.8 104.8

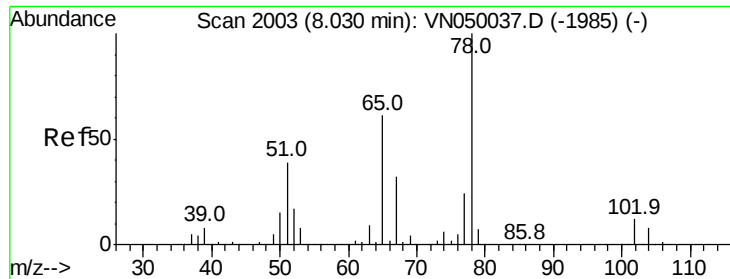


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

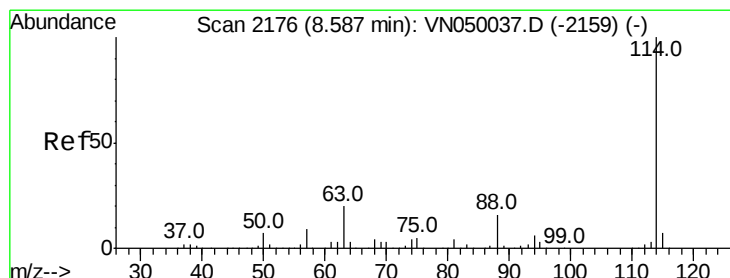
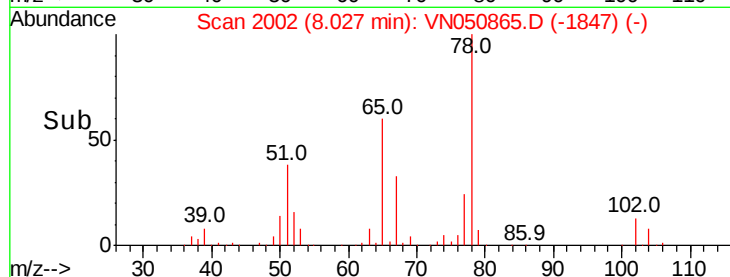
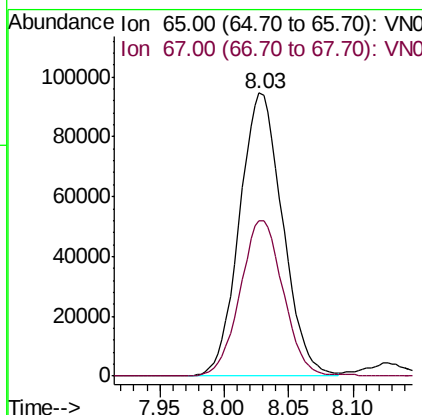
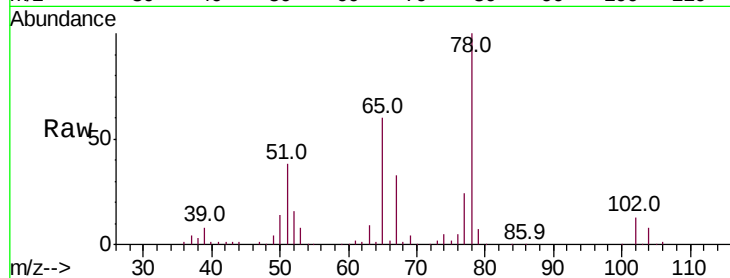




#27  
 1,2-Dichloroethane-d4  
 Concen: 28.247 ug/l  
 RT: 8.03 min Scan# 2002  
 Delta R.T. -0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

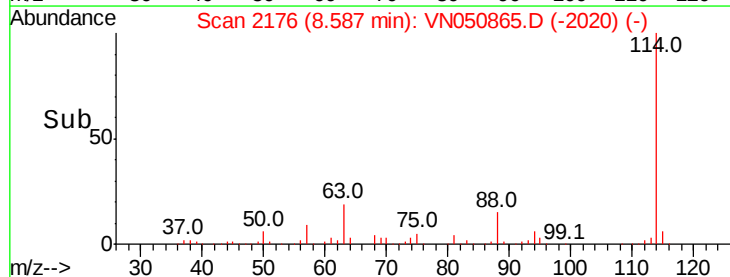
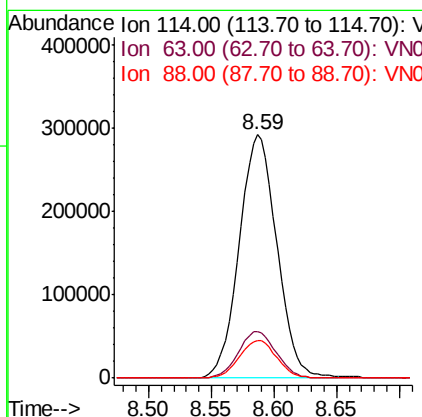
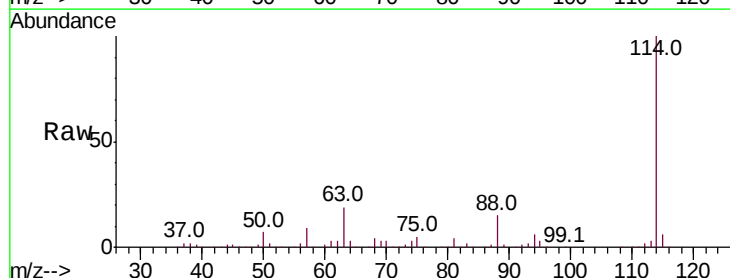
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

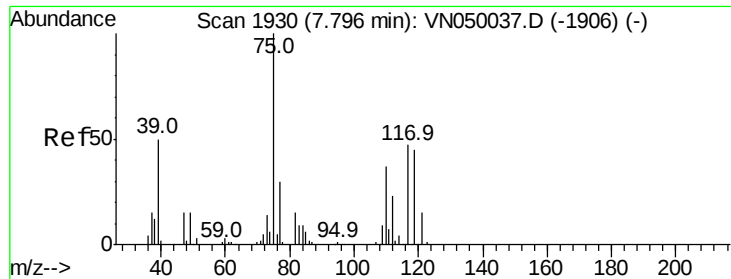
Tot Ion: 65 Resp: 220720  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 42.7 64.1



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. 0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

Tgt Ion:114 Resp: 611130  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 16.2 24.2  
 88 15.5 12.3 18.5





#29

1,1-Dichloropropene

Concen: 21.923 ug/l

RT: 7.79 min Scan# 1929

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

VN0824WBSD01

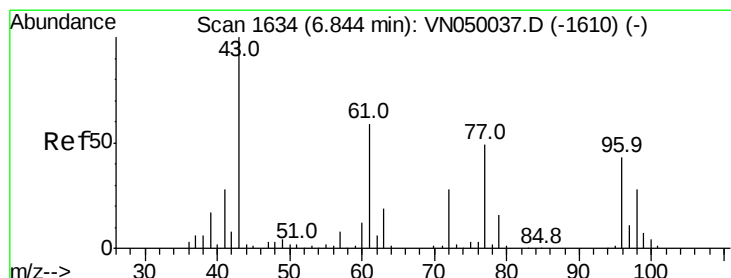
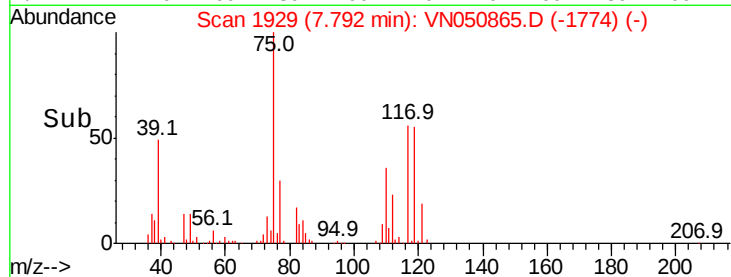
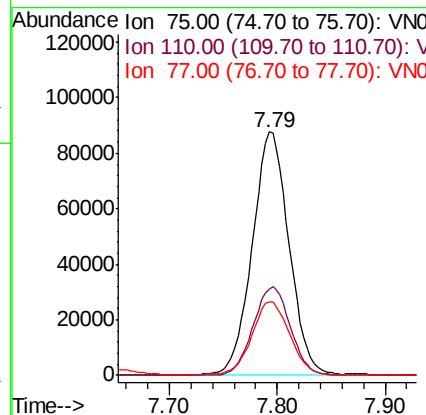
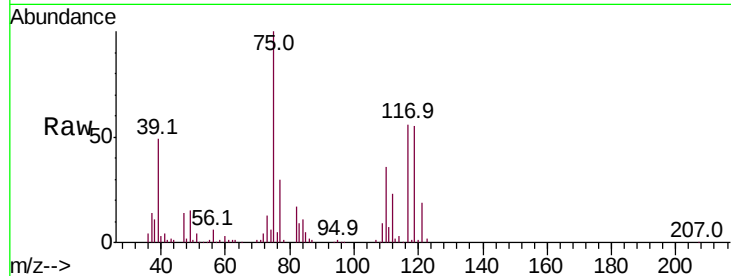
Tot Ion: 75 Resp: 207923

Ion Ratio Lower Upper

75 100

110 36.7 0.0 73.2

77 31.5 0.0 62.0



#30

2-Butanone

Concen: 88.871 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

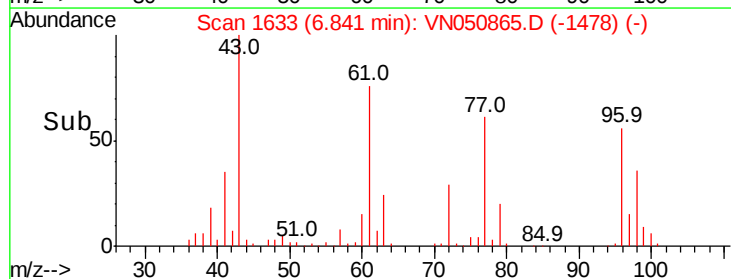
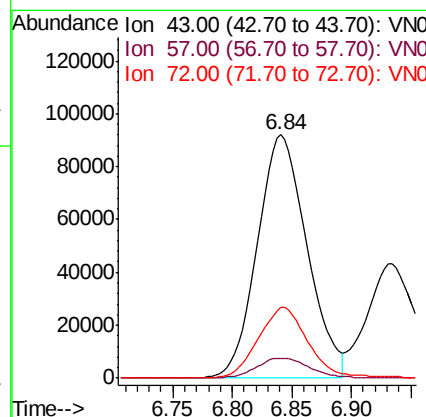
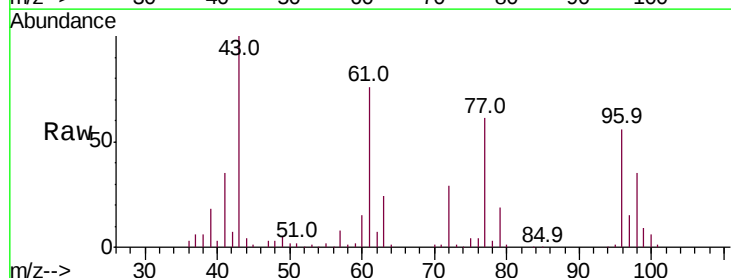
Tgt Ion: 43 Resp: 264494

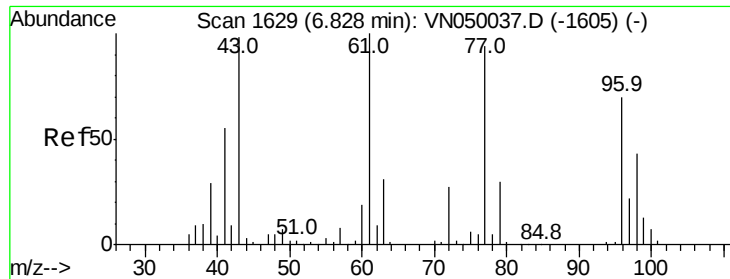
Ion Ratio Lower Upper

43 100

57 8.7 6.8 10.2

72 29.6 21.4 32.0





#31

2,2-Dichloropropane

Concen: 21.088 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

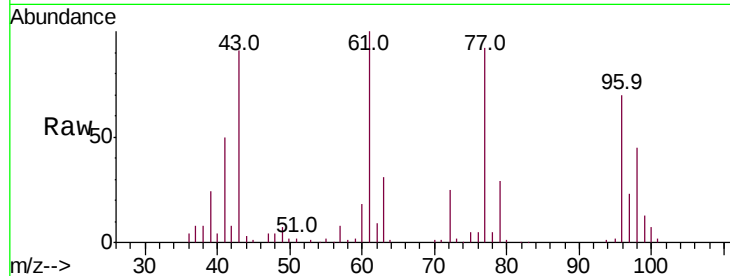
VN0824WBSD01

Tot Ion: 77 Resp: 221075

Ion Ratio Lower Upper

77 100

97 24.6 18.9 28.3



Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0

6.83

80000

60000

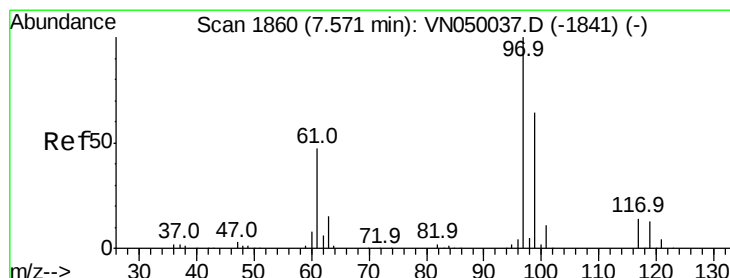
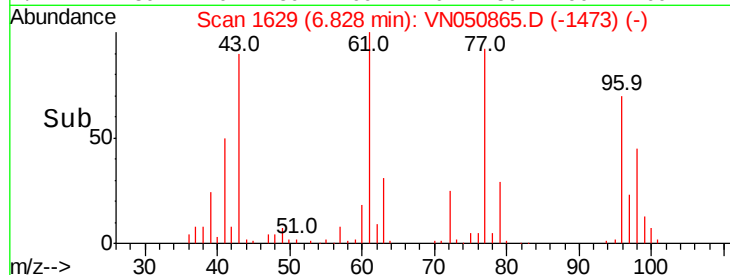
40000

20000

0

Time-->

6.70 6.80 6.90



#32

1,1,1-Trichloroethane

Concen: 21.080 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

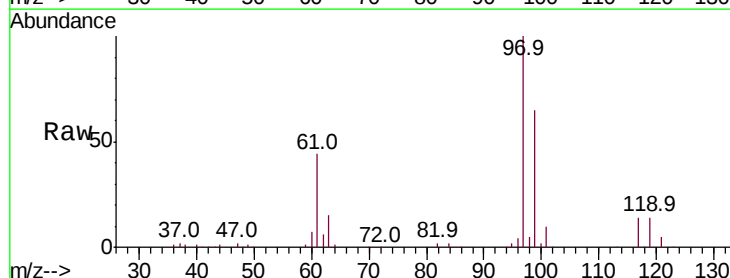
Tgt Ion: 97 Resp: 235322

Ion Ratio Lower Upper

97 100

99 65.0 51.2 76.8

61 43.6 35.3 52.9



Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 99.00 (98.70 to 99.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

120000

100000

80000

60000

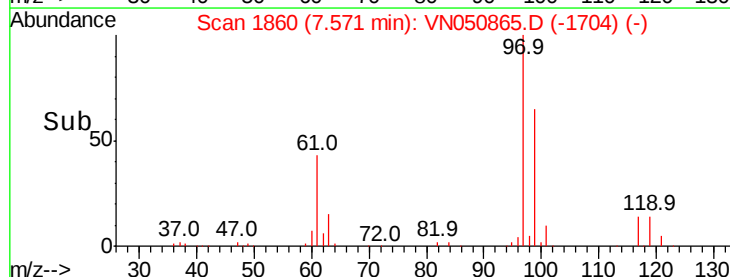
40000

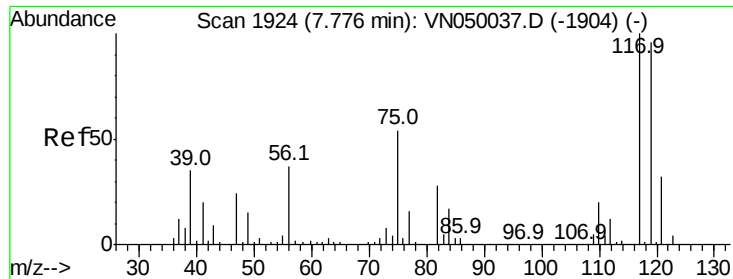
20000

0

Time-->

7.50 7.60

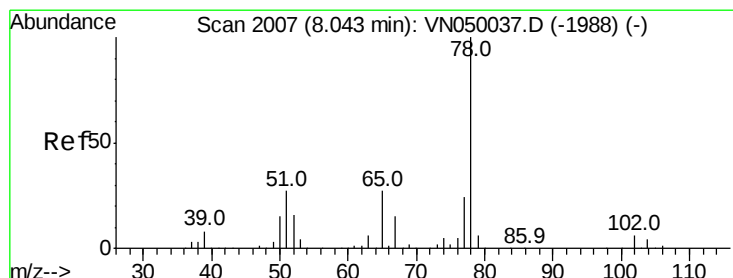
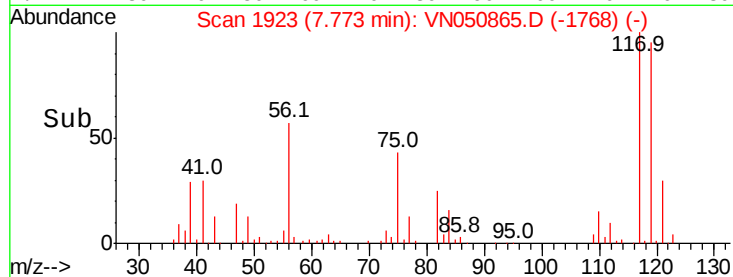
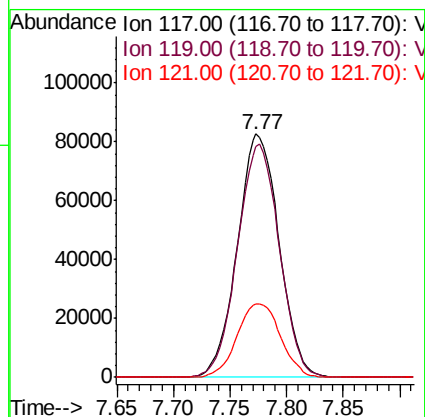
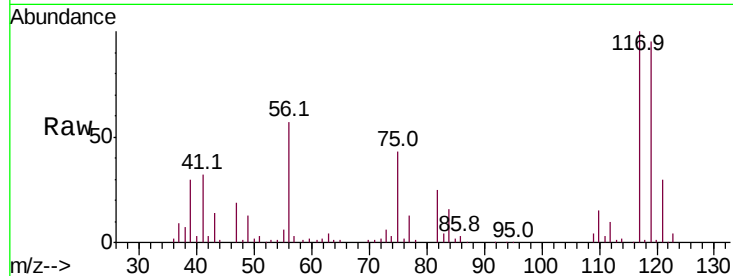




#33  
Carbon Tetrachloride  
Concen: 21.293 ug/l  
RT: 7.77 min Scan# 1923  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

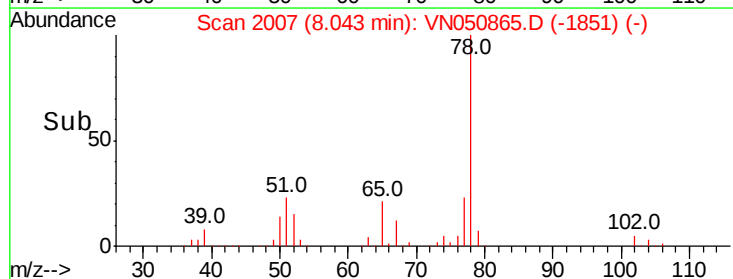
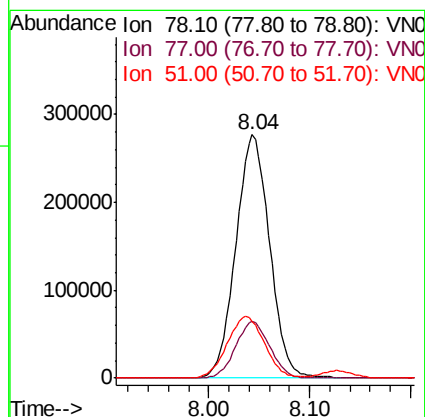
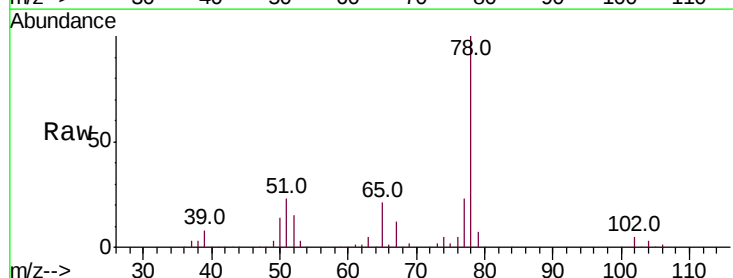
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

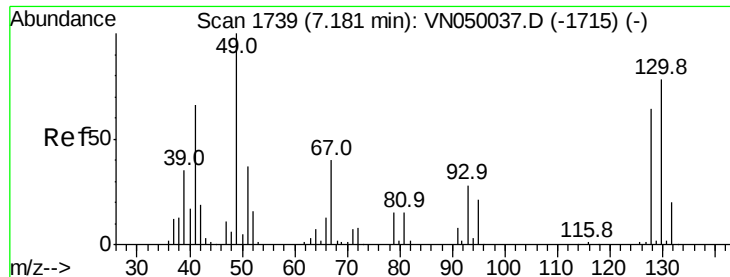
Tot Ion:117 Resp: 211893  
Ion Ratio Lower Upper  
117 100  
119 95.1 76.9 115.3  
121 30.3 24.4 36.6



#34  
Benzene  
Concen: 22.384 ug/l  
RT: 8.04 min Scan# 2007  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 78 Resp: 644747  
Ion Ratio Lower Upper  
78 100  
77 23.4 19.1 28.7  
51 23.4 21.0 31.4

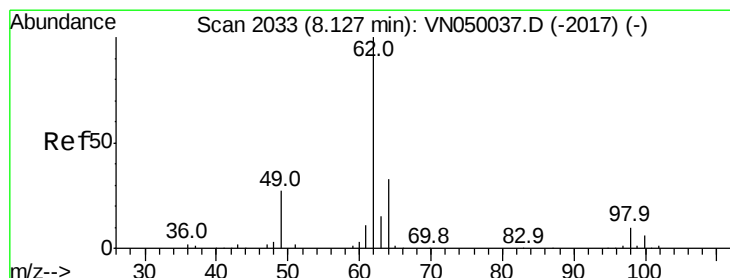
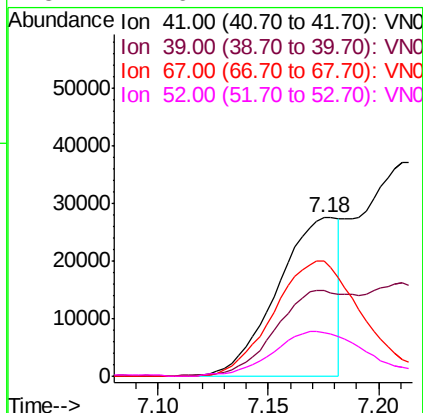
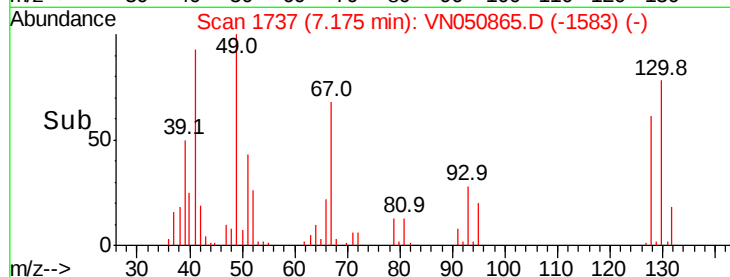
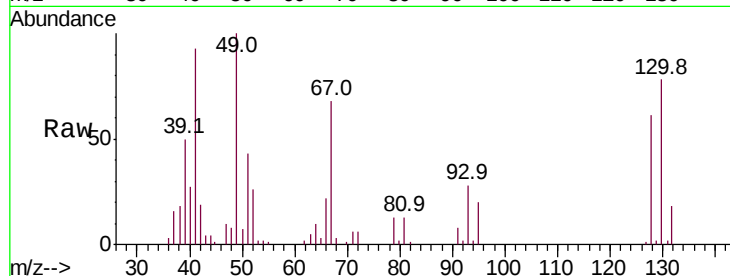




#35  
Methacrylonitrile  
Concen: 15.514 ug/l  
RT: 7.18 min Scan# 1737  
Delta R.T. -0.01 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

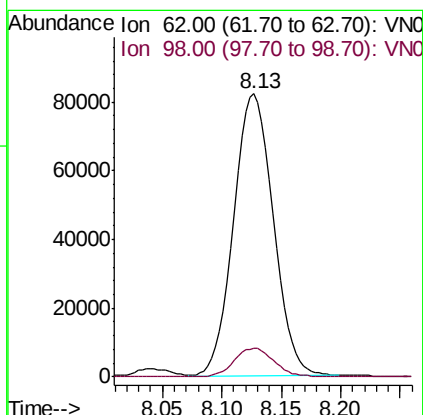
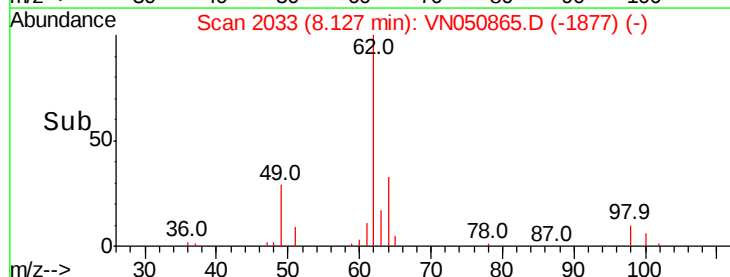
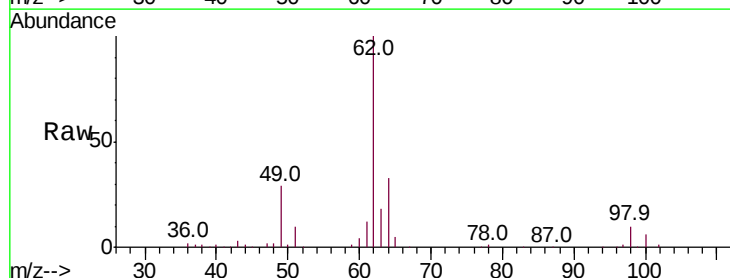
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

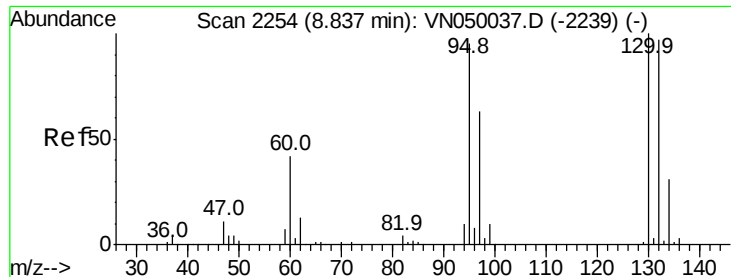
Tot Ion: 41 Resp: 52571  
Ion Ratio Lower Upper  
41 100  
39 53.2 27.6 82.7  
67 72.6 35.1 105.5  
52 27.6 14.1 42.4



#36  
1,2-Dichloroethane  
Concen: 20.131 ug/l  
RT: 8.13 min Scan# 2033  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 62 Resp: 190387  
Ion Ratio Lower Upper  
62 100  
98 10.2 7.8 11.6

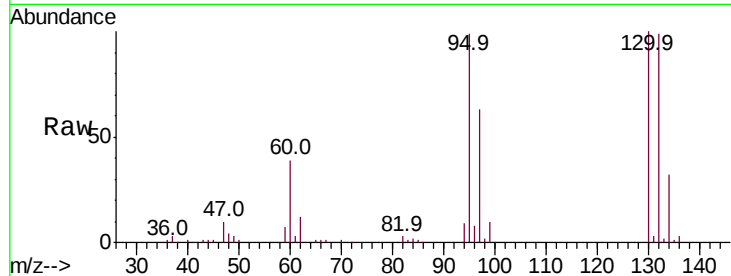




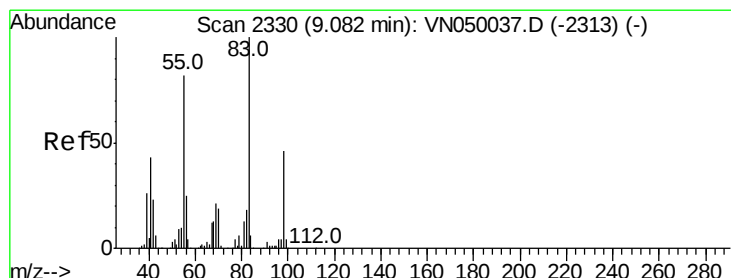
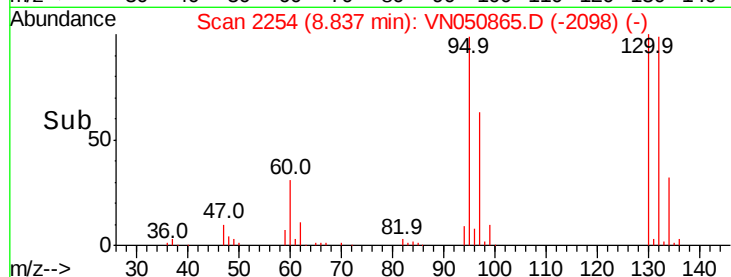
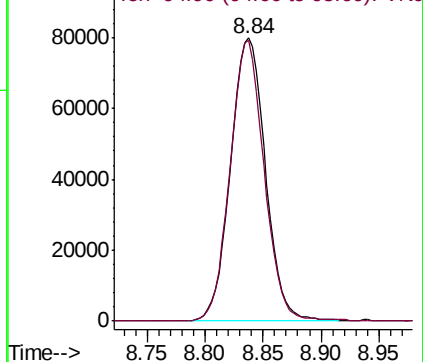
#37  
 Trichloroethene  
 Concen: 22.037 ug/l  
 RT: 8.84 min Scan# 2254  
 Delta R.T. 0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

Tot Ion:130 Resp: 166473  
 Ion Ratio Lower Upper  
 130 100  
 95 99.0 79.7 119.5

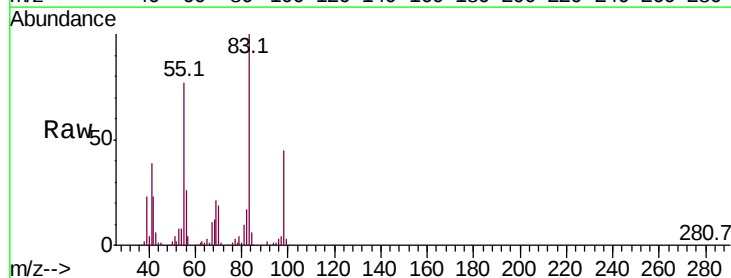


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VN

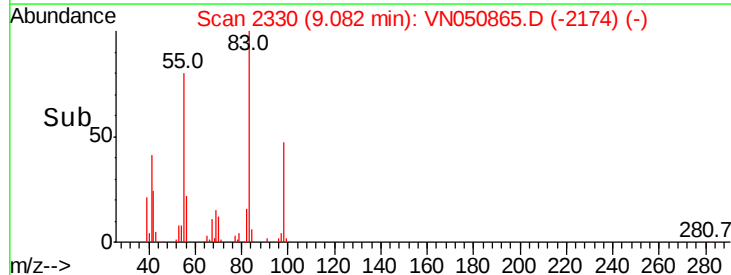
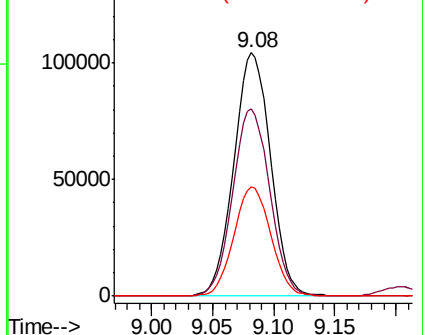


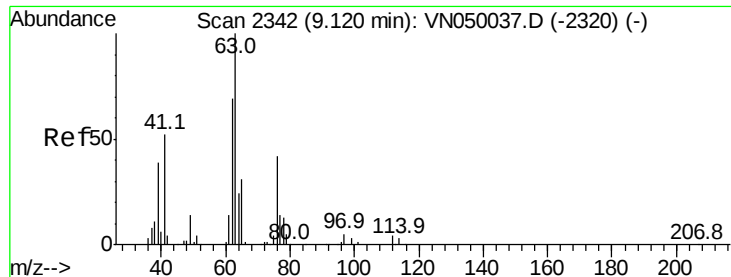
#38  
 Methylcyclohexane  
 Concen: 21.839 ug/l  
 RT: 9.08 min Scan# 2330  
 Delta R.T. 0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

Tgt Ion: 83 Resp: 218354  
 Ion Ratio Lower Upper  
 83 100  
 55 77.6 39.3 117.8  
 98 45.2 23.0 69.0



Abundance Ion 83.00 (82.70 to 83.70): VNO  
 Ion 55.00 (54.70 to 55.70): VNO  
 Ion 98.00 (97.70 to 98.70): VNO





#39

1,2-Dichloropropane

Concen: 22.184 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

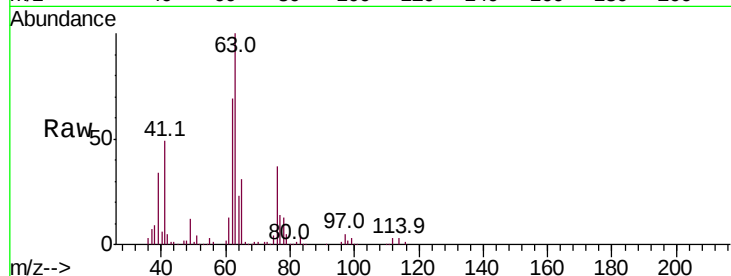
VN0824WBSD01

Tot Ion: 63 Resp: 168326

Ion Ratio Lower Upper

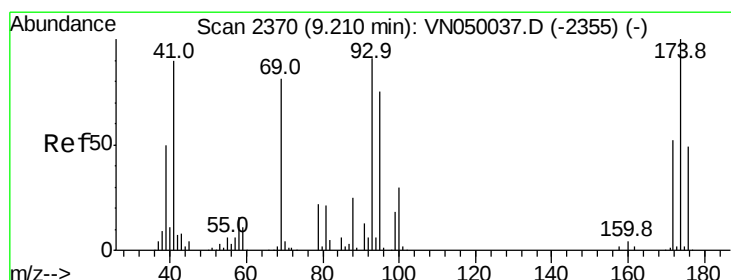
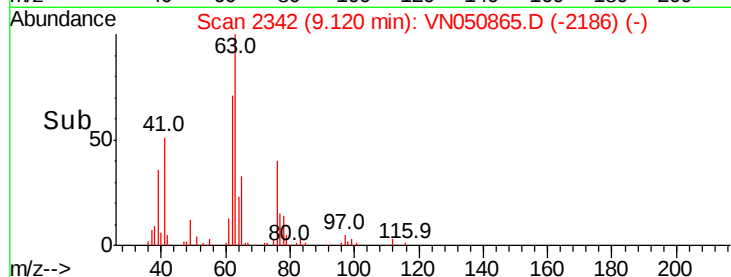
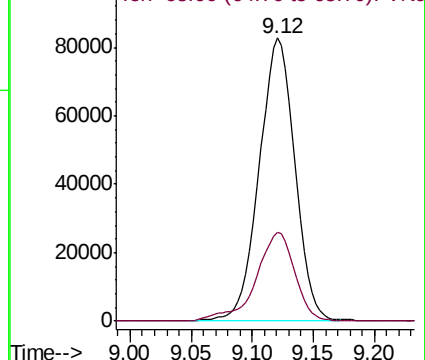
63 100

65 31.3 24.2 36.2



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 21.037 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

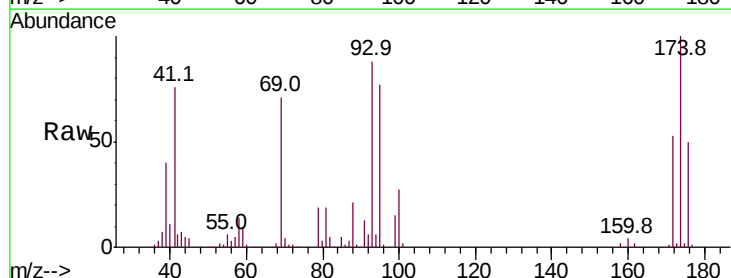
Tgt Ion: 93 Resp: 98655

Ion Ratio Lower Upper

93 100

95 84.0 0.0 165.6

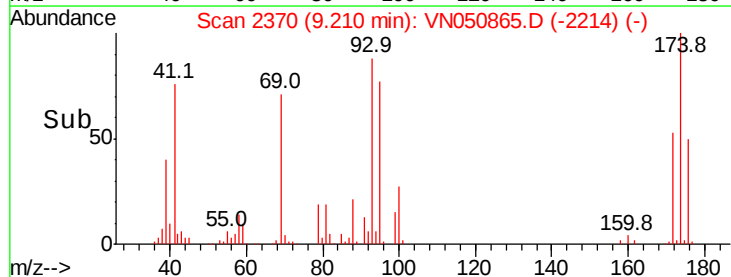
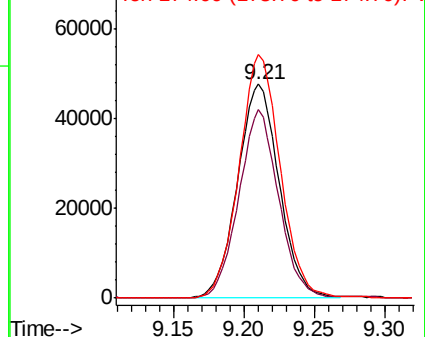
174 111.9 0.0 223.2

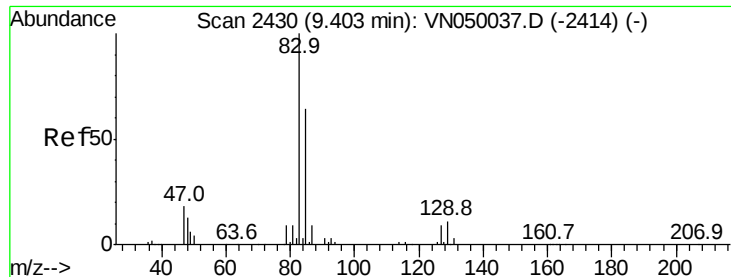


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 21.222 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

VN0824WBSD01

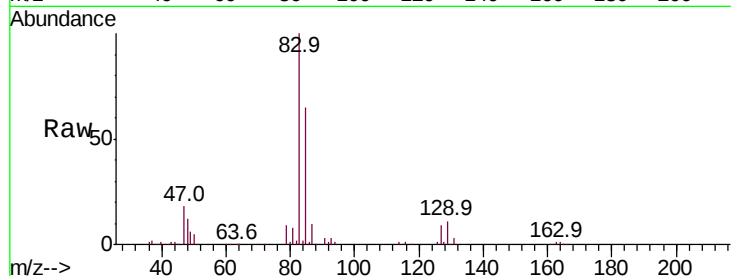
Tot Ion: 83 Resp: 209934

Ion Ratio Lower Upper

83 100

85 64.9 52.6 78.8

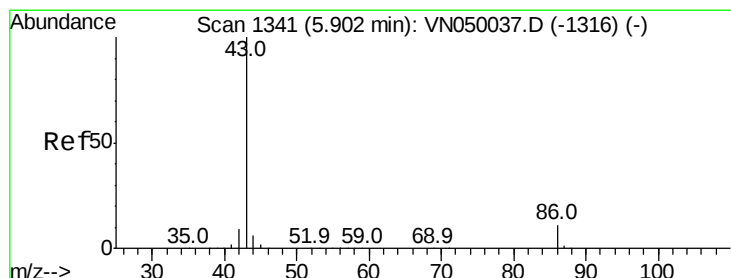
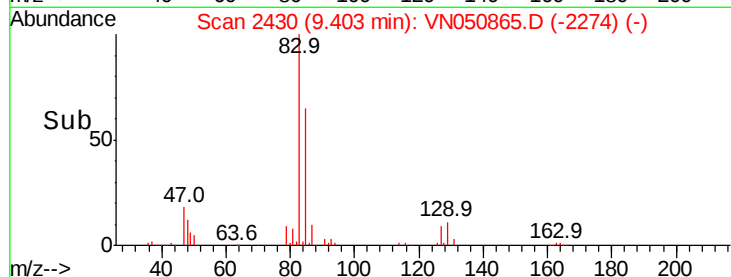
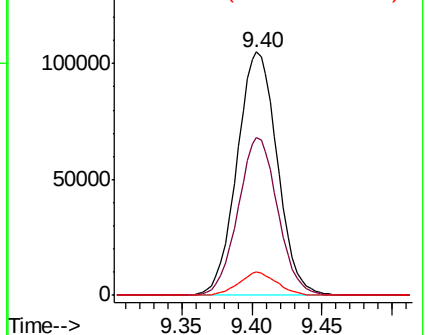
127 9.4 7.0 10.4



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: 100.206 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN050865.D

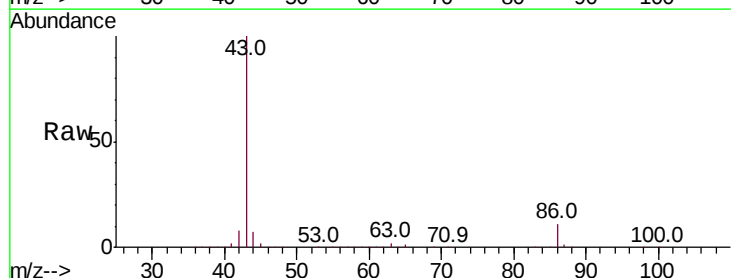
Acq: 24 Aug 2018 10:02

Tgt Ion: 43 Resp: 1403388

Ion Ratio Lower Upper

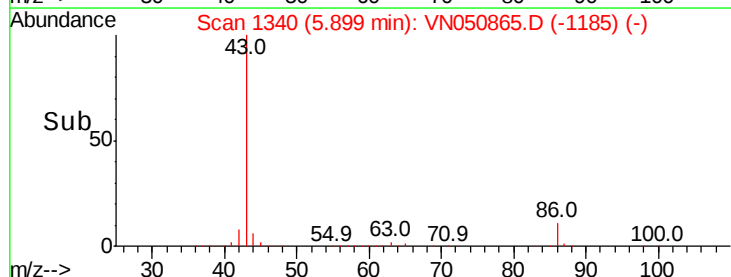
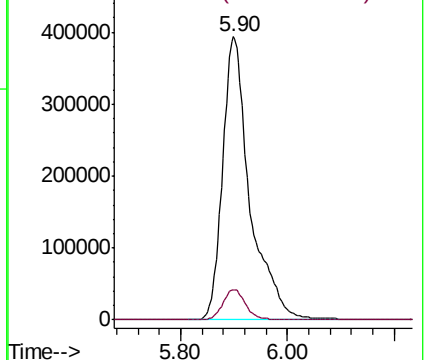
43 100

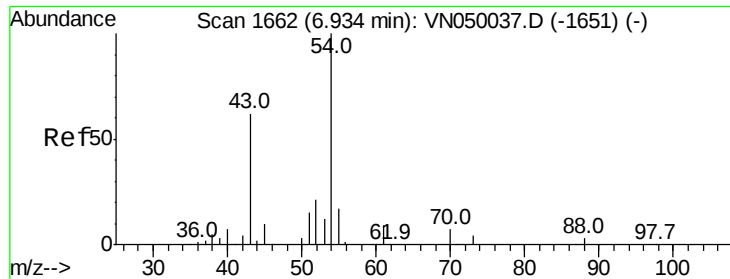
86 9.1 7.3 10.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#43

Ethyl Acetate

Concen: 19.169 ug/l

RT: 6.93 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

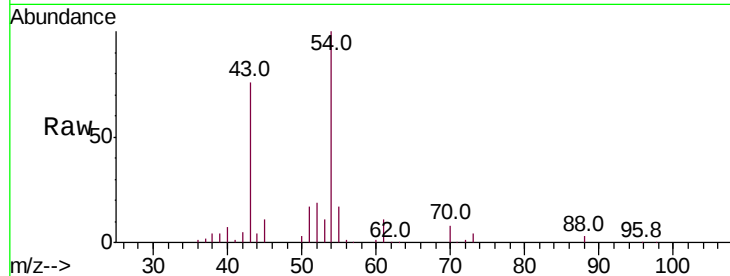
VN0824WBSD01

Tot Ion: 43 Resp: 119130

Ion Ratio Lower Upper

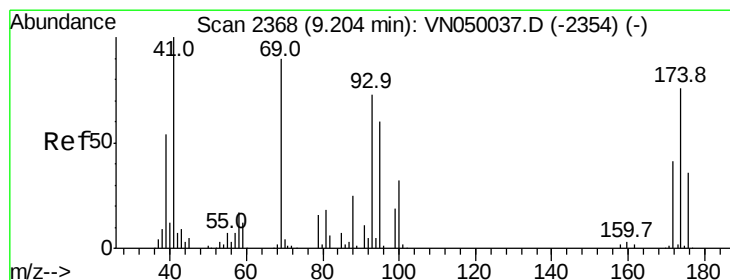
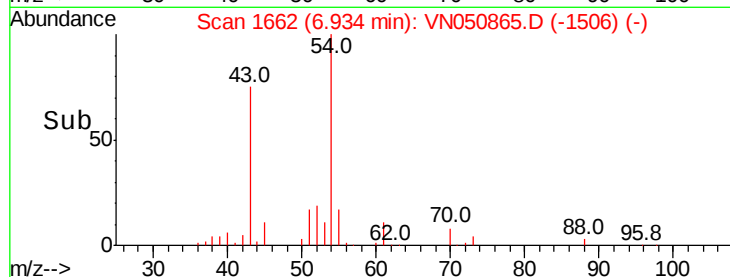
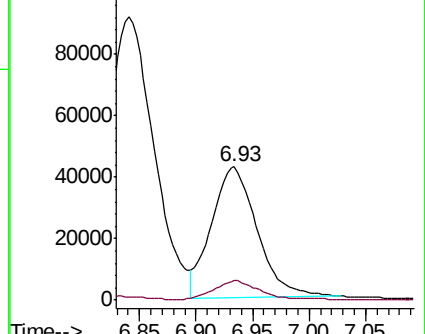
43 100

45 13.7 13.0 19.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#45

1,4-Dioxane

Concen: 389.061 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

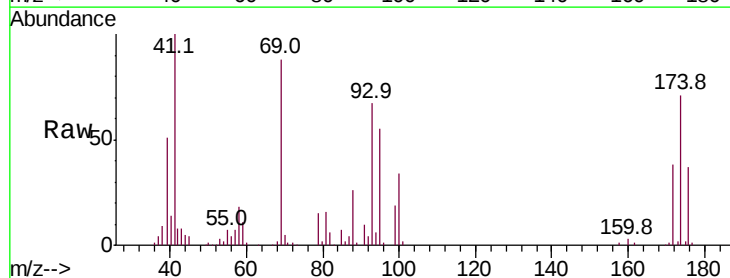
Tgt Ion: 88 Resp: 29474

Ion Ratio Lower Upper

88 100

43 29.2 26.9 40.3

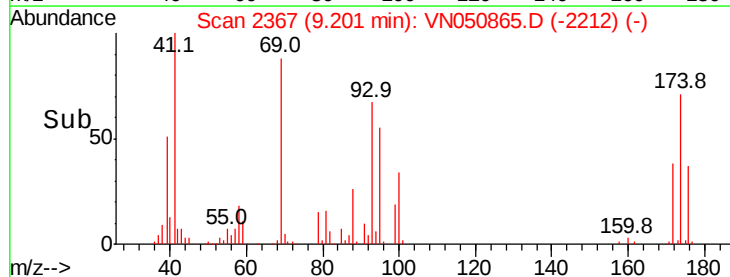
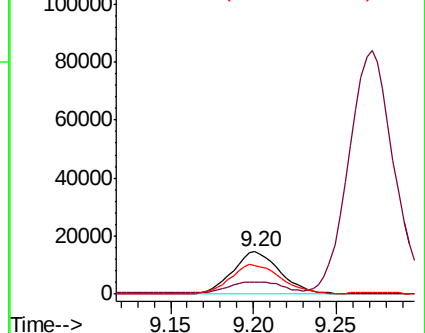
58 72.4 53.6 80.4

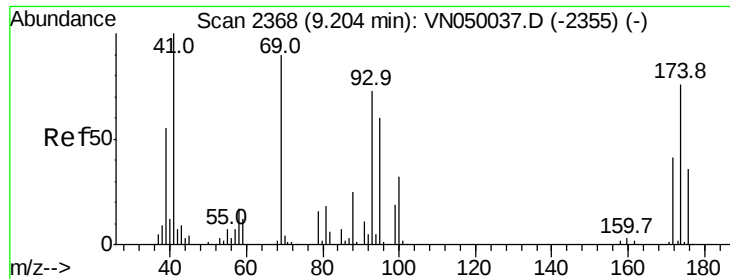


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

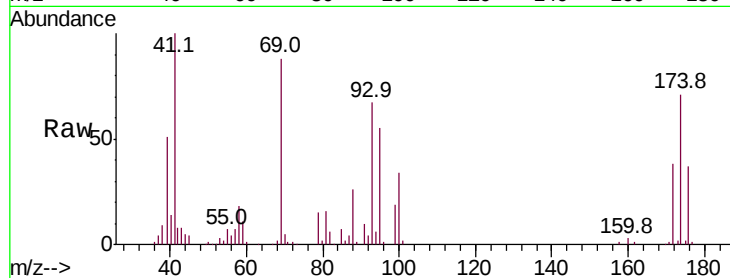




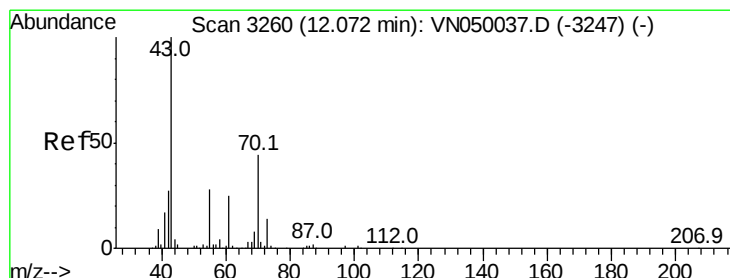
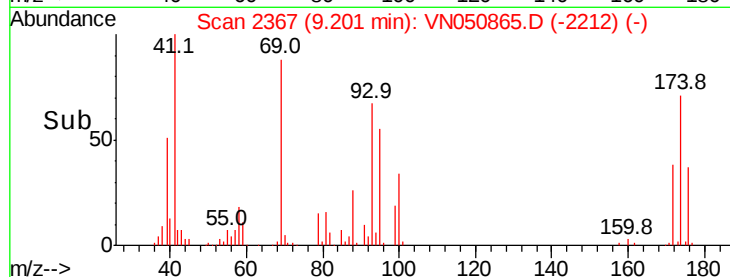
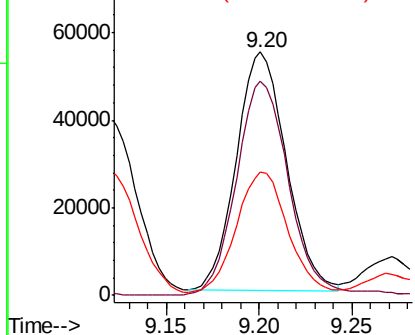
#46  
Methvl methacrylate  
Concen: 18.382 ug/l  
RT: 9.20 min Scan# 2367  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0824WBSD01

Tot Ion: 41 Resp: 102587  
Ion Ratio Lower Upper  
41 100  
69 89.8 44.0 132.1  
39 50.4 27.0 80.8

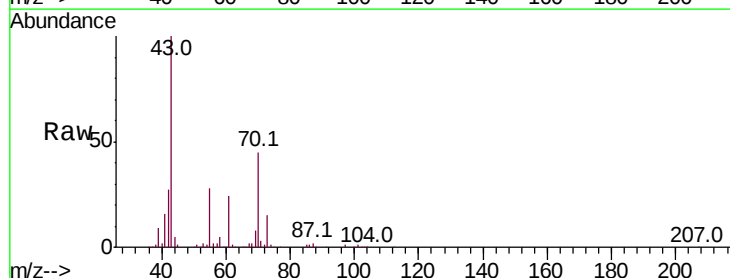


Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO

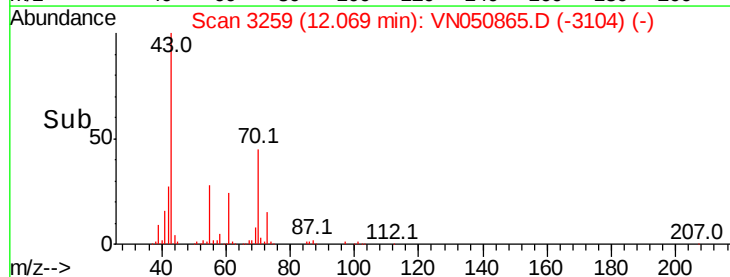
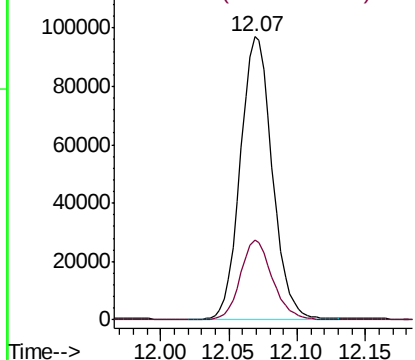


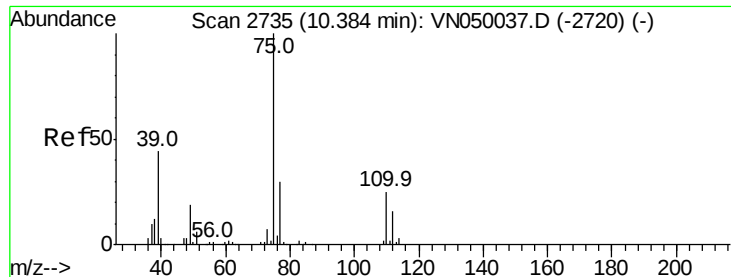
#47  
n-amyl Acetate  
Concen: 17.567 ug/l  
RT: 12.07 min Scan# 3259  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 43 Resp: 157370  
Ion Ratio Lower Upper  
43 100  
55 28.5 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 55.00 (54.70 to 55.70): VNO





#48

t-1,3-Dichloropropene

Concen: 21.153 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

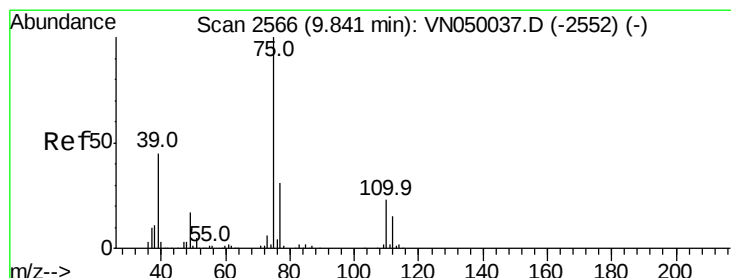
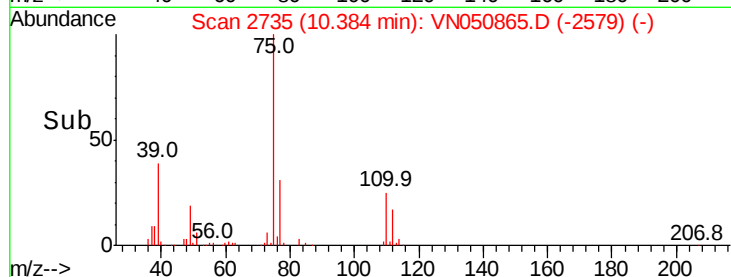
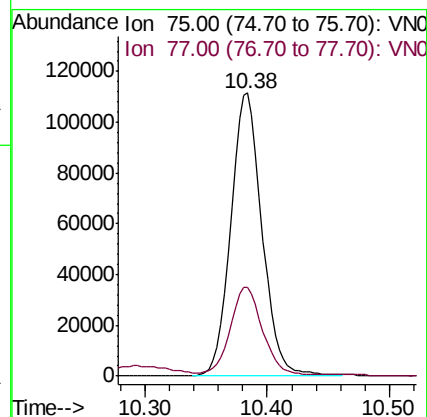
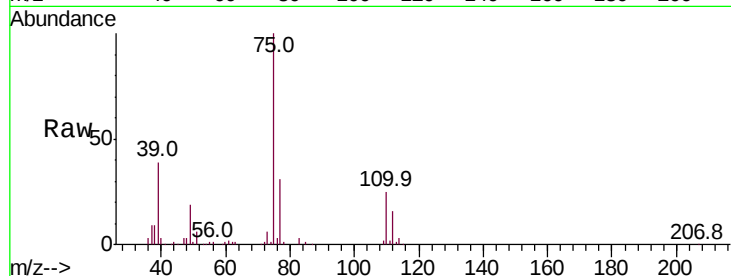
VN0824WBSD01

Tot Ion: 75 Resp: 199449

Ion Ratio Lower Upper

75 100

77 30.8 24.6 37.0



#49

cis-1,3-Dichloropropene

Concen: 21.476 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

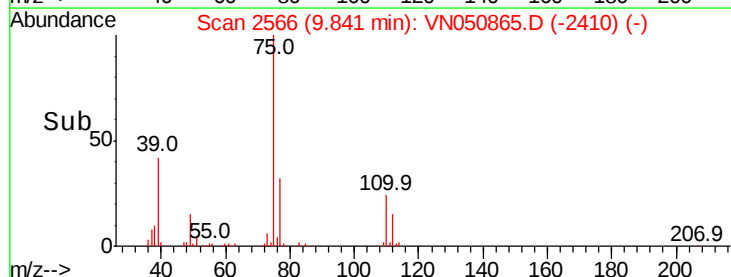
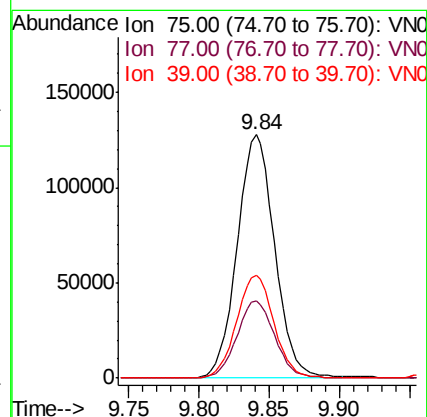
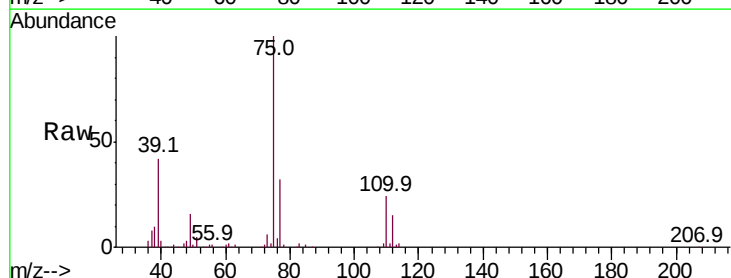
Tgt Ion: 75 Resp: 237931

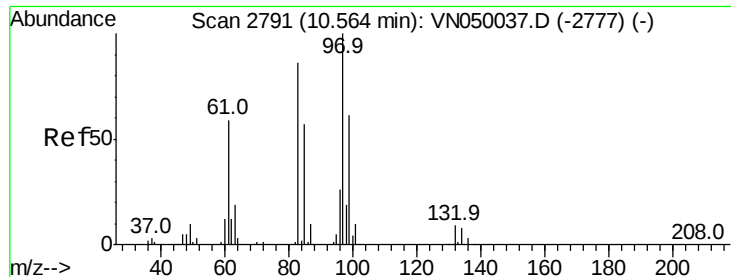
Ion Ratio Lower Upper

75 100

77 31.6 25.7 38.5

39 42.3 36.3 54.5

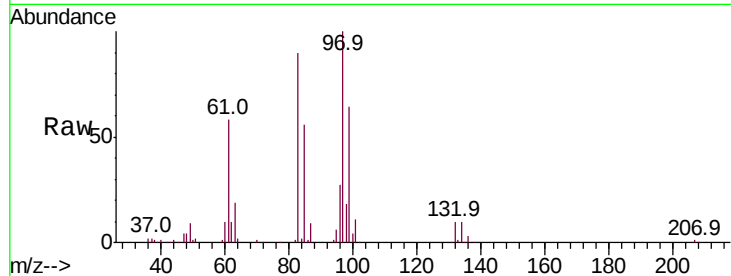




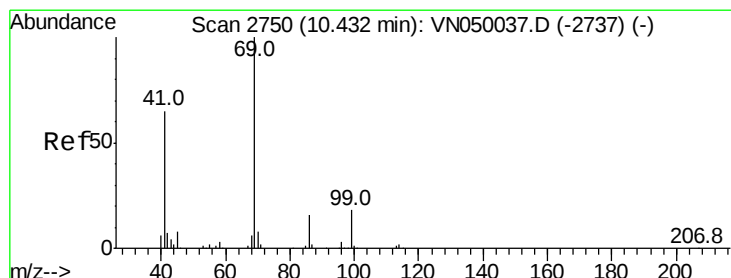
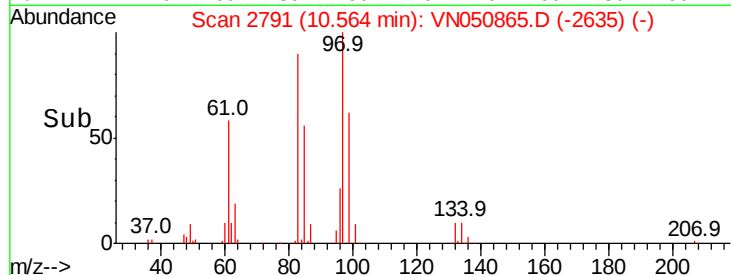
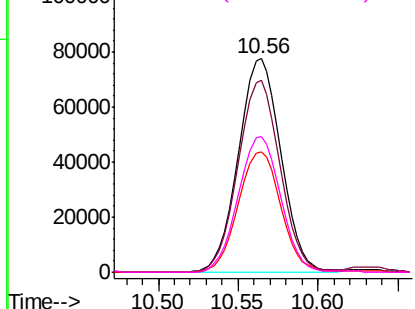
#50  
 1,1,2-Trichloroethane  
 Concen: 20.956 ug/l  
 RT: 10.56 min Scan# 2791  
 Delta R.T. 0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 141060 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 89.8  | 68.1  | 102.1  |
| 85       | 56.3  | 45.4  | 68.2   |
| 99       | 63.6  | 49.4  | 74.0   |

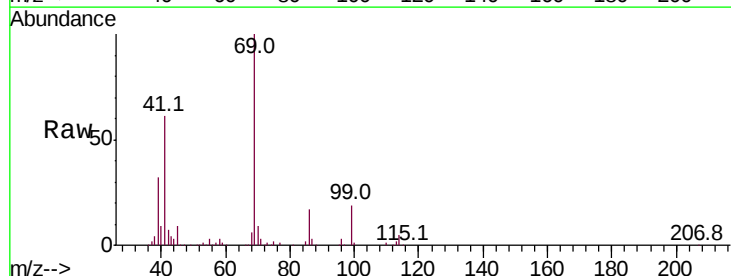


Abundance Ion 97.00 (96.70 to 97.70): VN0  
 Ion 82.95 (82.65 to 83.65): VN0  
 Ion 84.95 (84.65 to 85.65): VN0  
 Ion 98.95 (98.65 to 99.65): VN0

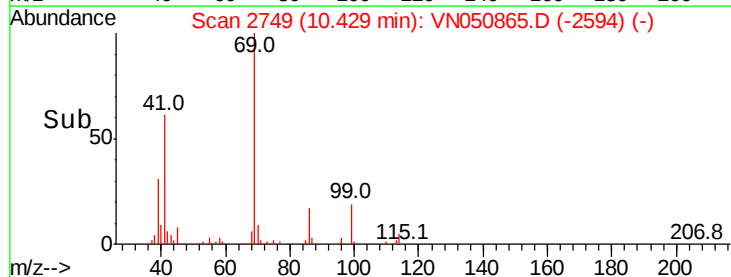
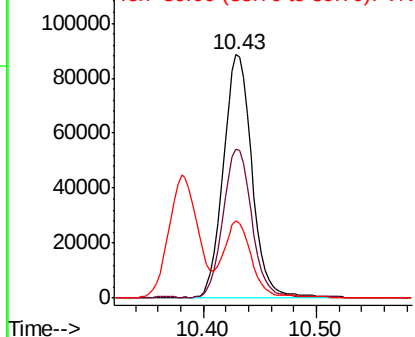


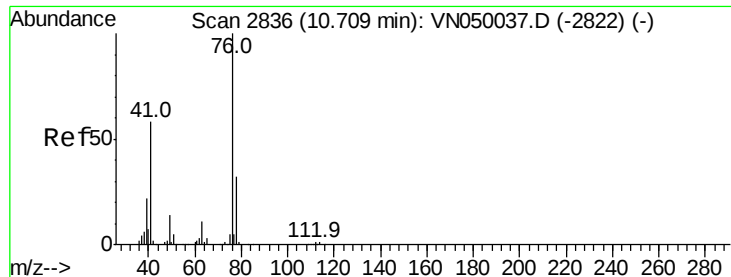
#51  
 Ethyl methacrylate  
 Concen: 19.131 ug/l  
 RT: 10.43 min Scan# 2749  
 Delta R.T. -0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 156306 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 60.6  | 31.9  | 95.9   |
| 39       | 31.5  | 16.7  | 50.1   |



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





#52

1,3-Dichloropropane

Concen: 21.142 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampled :

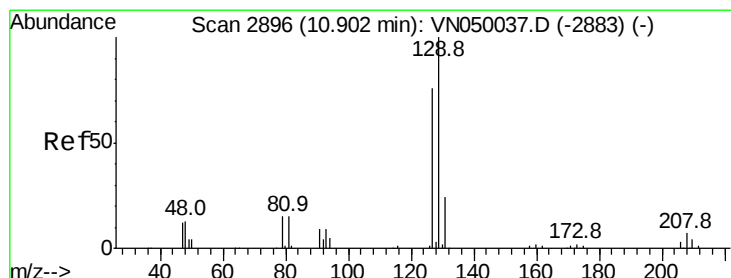
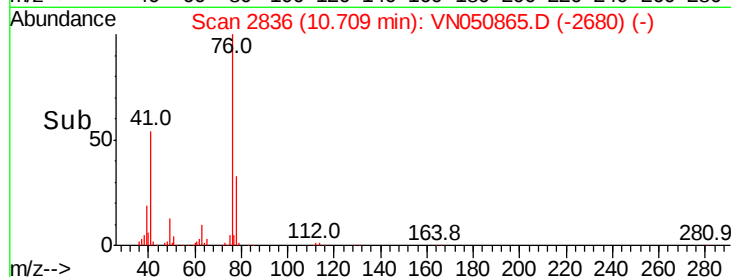
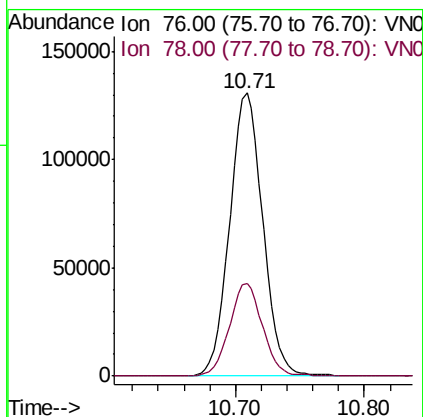
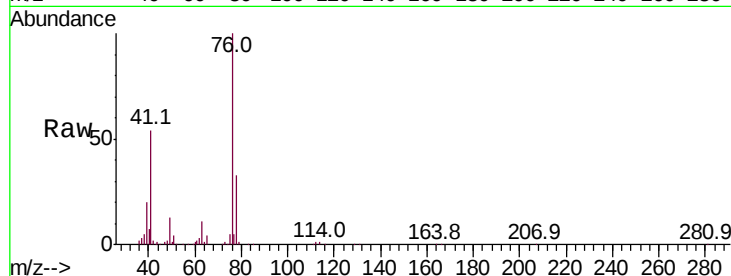
VN0824WBSD01

Tot Ion: 76 Resp: 233694

Ion Ratio Lower Upper

76 100

78 32.5 0.0 65.6



#53

Dibromochloromethane

Concen: 20.483 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VN050865.D

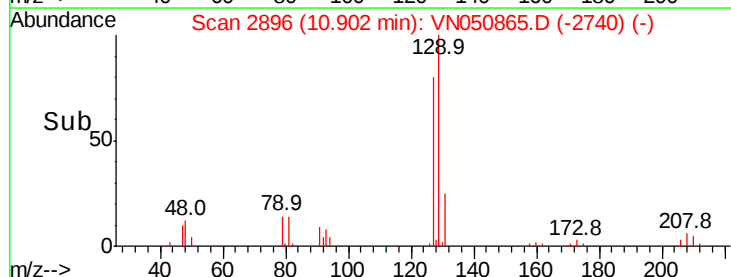
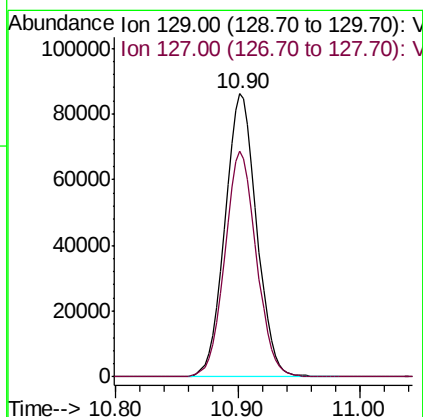
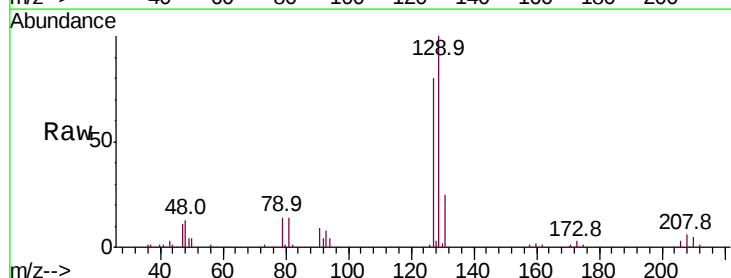
Acq: 24 Aug 2018 10:02

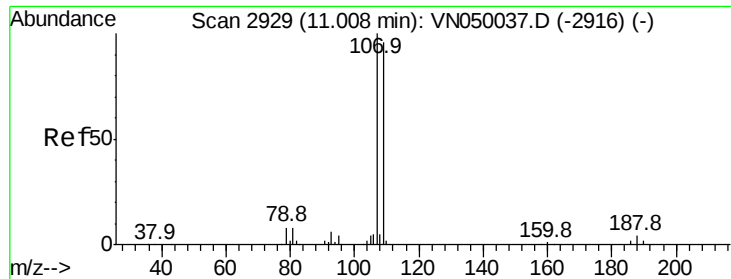
Tgt Ion: 129 Resp: 156473

Ion Ratio Lower Upper

129 100

127 79.1 38.1 114.5

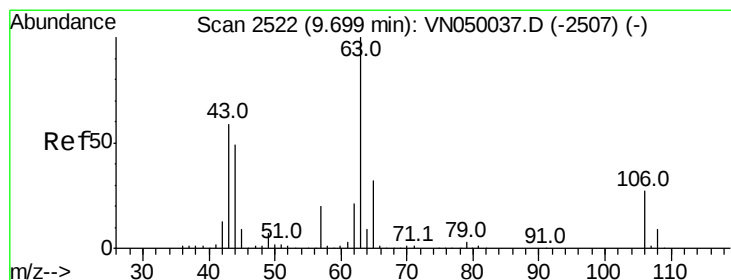
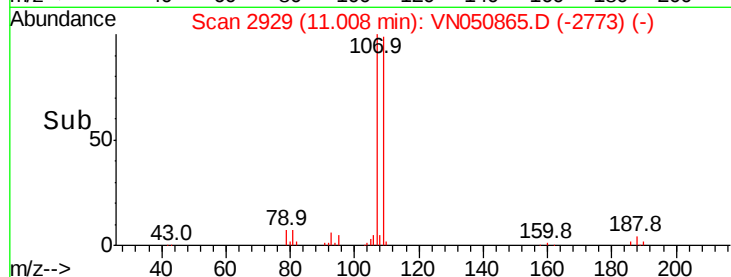
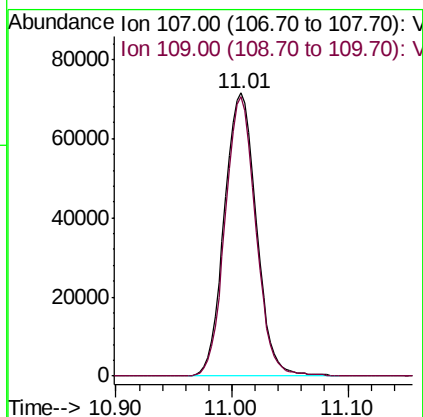
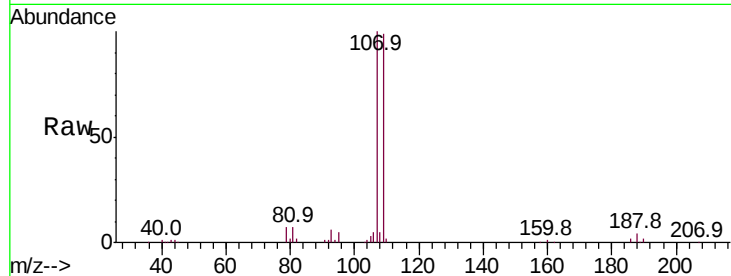




#54  
 1,2-Dibromoethane  
 Concen: 20.742 ug/l  
 RT: 11.01 min Scan# 2929  
 Delta R.T. 0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

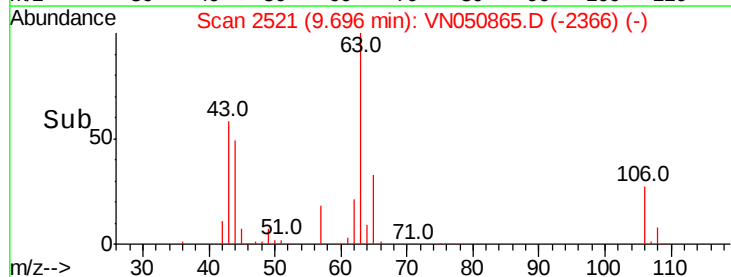
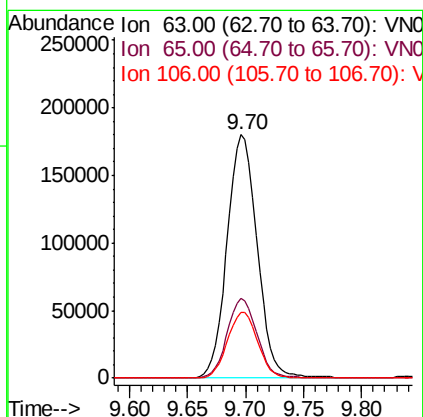
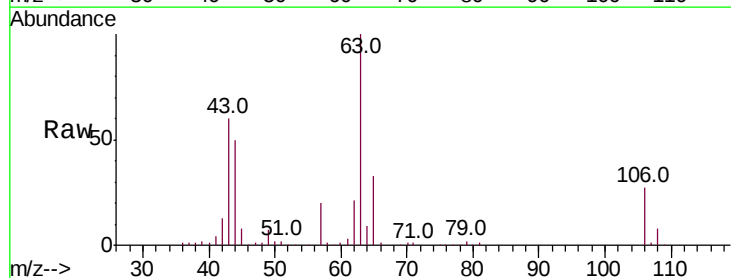
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

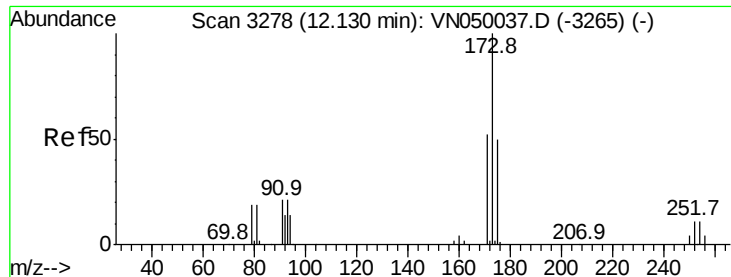
Tot Ion:107 Resp: 136744  
 Ion Ratio Lower Upper  
 107 100  
 109 94.1 76.2 114.2



#55  
 2-Chloroethyl vinyl ether  
 Concen: 88.078 ug/l  
 RT: 9.70 min Scan# 2521  
 Delta R.T. -0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

Tgt Ion: 63 Resp: 325689  
 Ion Ratio Lower Upper  
 63 100  
 65 32.4 25.5 38.3  
 106 27.1 21.8 32.6

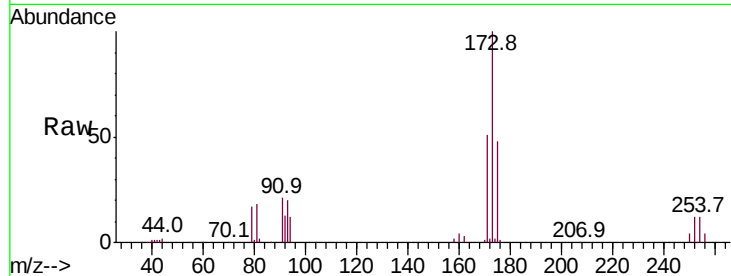




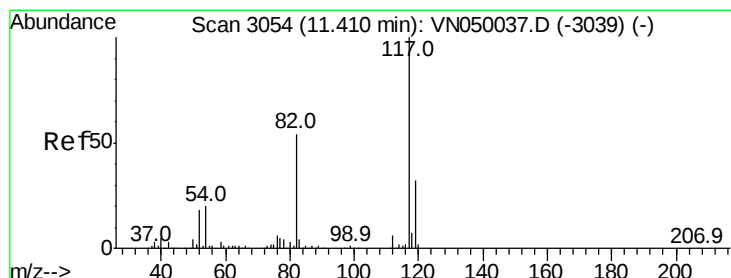
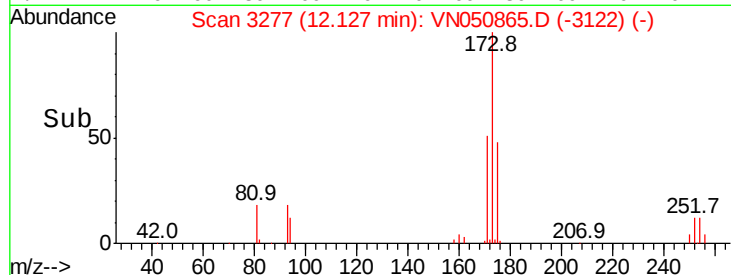
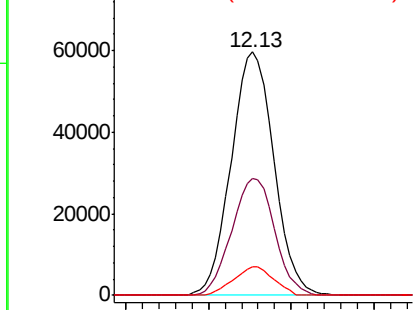
#56  
Bromoform  
Concen: 19.840 ug/l  
RT: 12.13 min Scan# 3277  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

Tot Ion:173 Resp: 107021  
Ion Ratio Lower Upper  
173 100  
175 48.1 38.6 57.8  
254 10.9 8.8 13.2

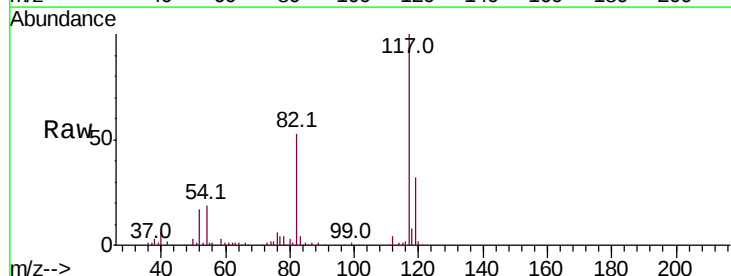


Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V

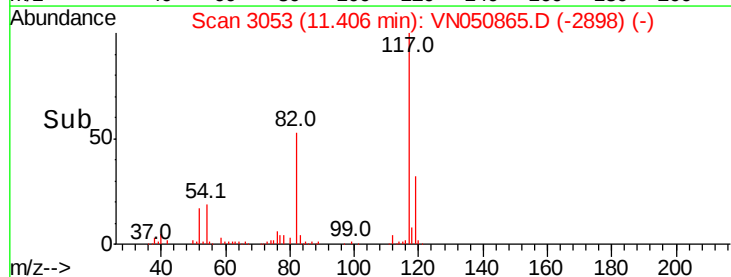
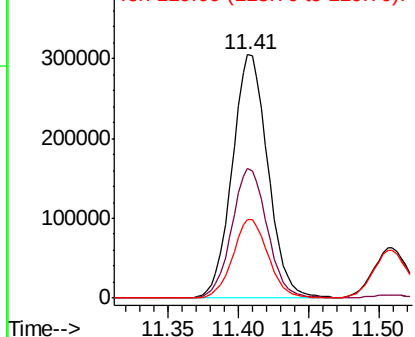


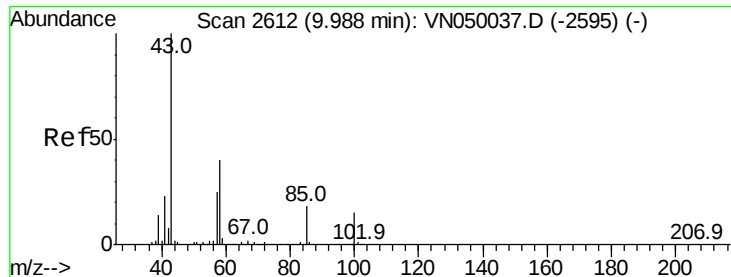
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 3053  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion:117 Resp: 541207  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.4 63.6  
119 32.0 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: 94.999 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

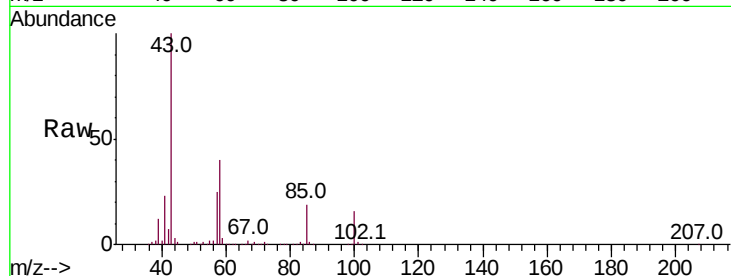
Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

Tot Ion: 43 Resp: 598252

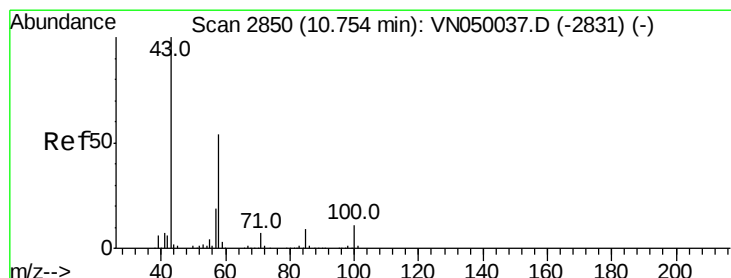
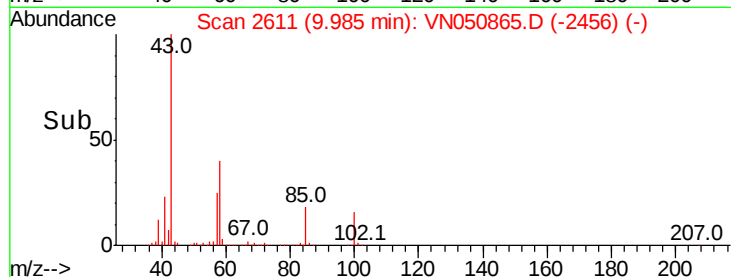
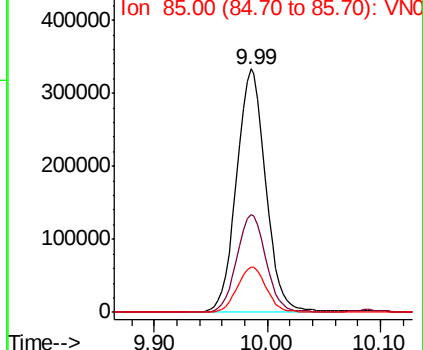
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 40.6  | 31.2  | 46.8  |
| 85  | 18.6  | 14.4  | 21.6  |



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 89.202 ug/l

RT: 10.75 min Scan# 2850

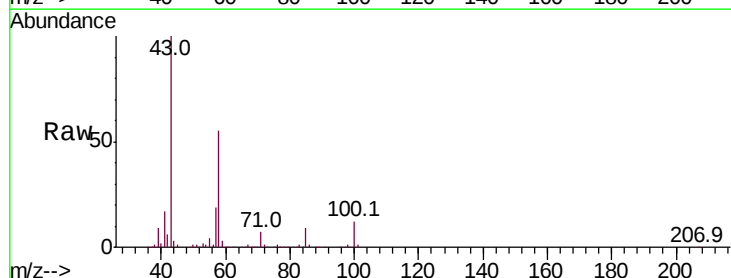
Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Tgt Ion: 43 Resp: 383233

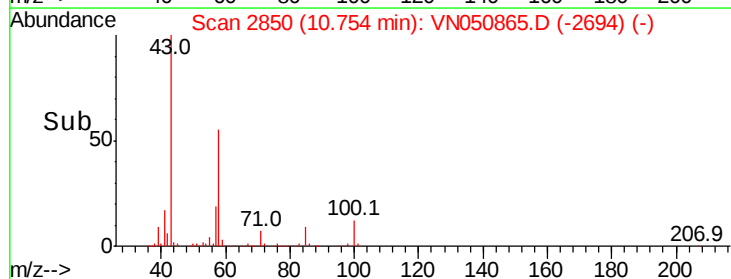
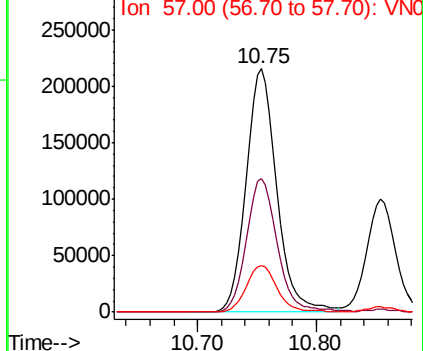
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 55.6  | 43.8  | 65.8  |
| 57  | 19.5  | 15.1  | 22.7  |

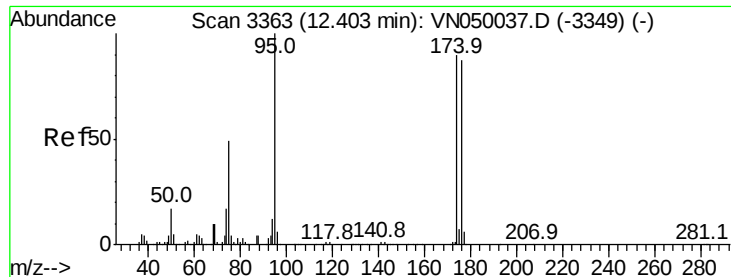


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

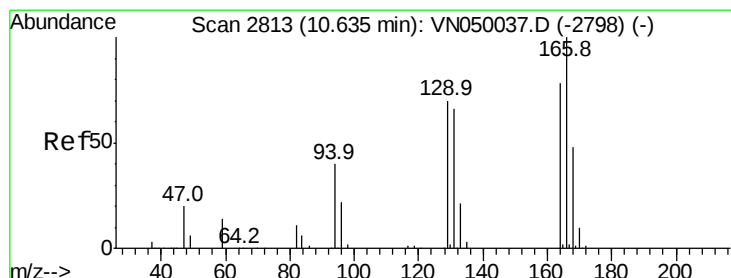
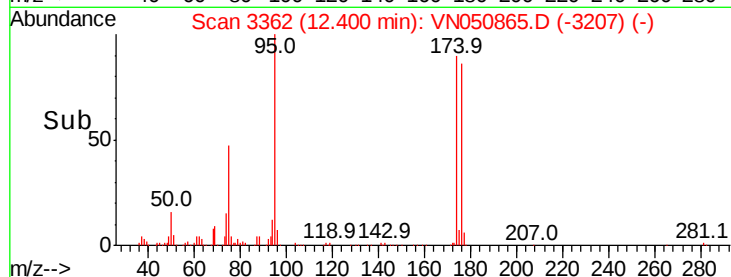
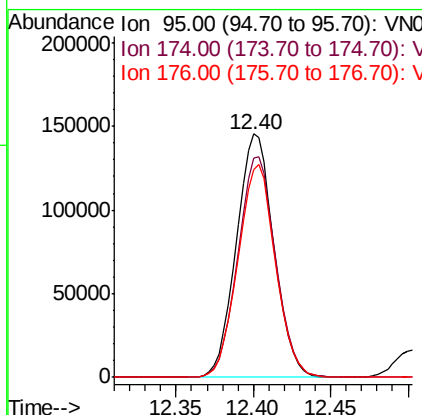
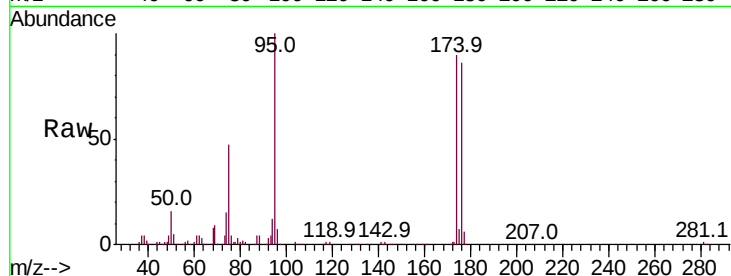




#60  
4-Bromofluorobenzene  
Concen: 29.361 ug/l  
RT: 12.40 min Scan# 3362  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

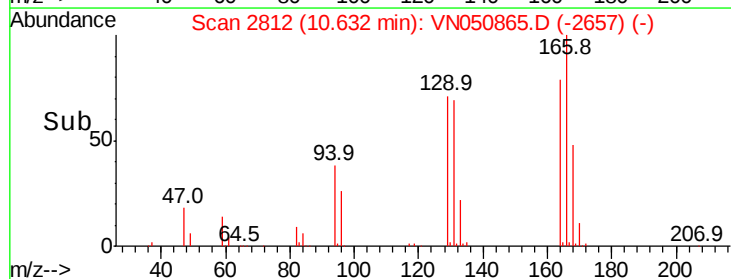
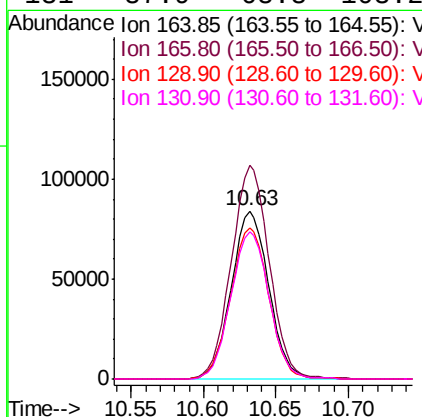
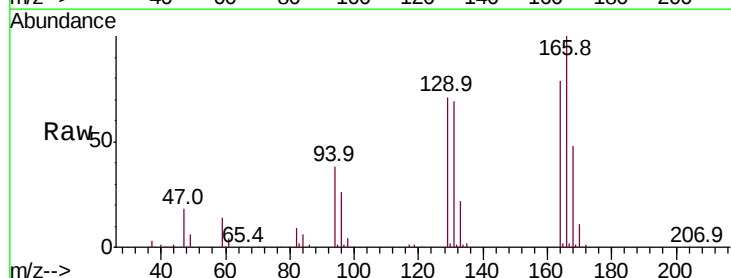
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

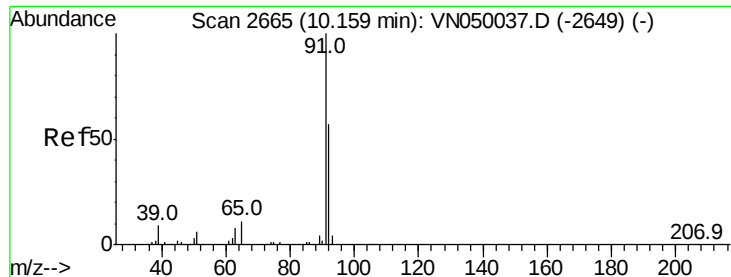
Tot Ion: 95 Resp: 244123  
Ion Ratio Lower Upper  
95 100  
174 91.3 72.3 108.5  
176 87.8 70.0 105.0



#61  
Tetrachloroethene  
Concen: 20.616 ug/l  
RT: 10.63 min Scan# 2812  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 164 Resp: 151129  
Ion Ratio Lower Upper  
164 100  
166 127.1 100.0 150.0  
129 90.0 69.3 103.9  
131 87.9 68.8 103.2





#62

Toluene

Concen: 22.133 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

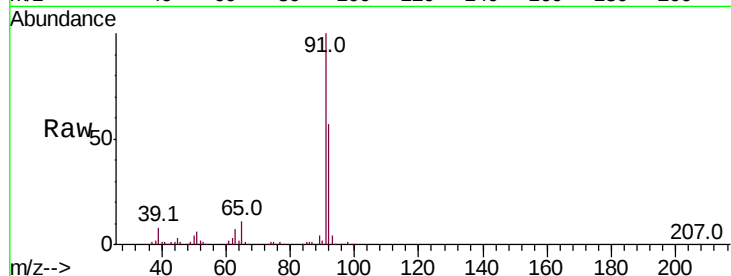
VN0824WBSD01

Tot Ion: 91 Resp: 683412

Ion Ratio Lower Upper

91 100

92 56.6 45.7 68.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

10.16

400000

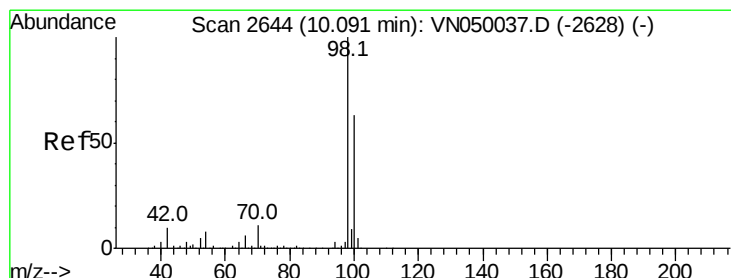
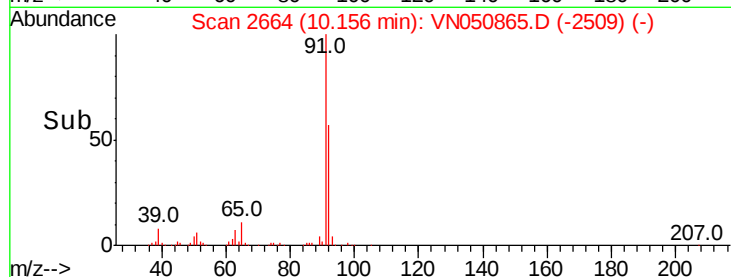
300000

200000

100000

0

Time-->



#63

Toluene-d8

Concen: 30.159 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050865.D

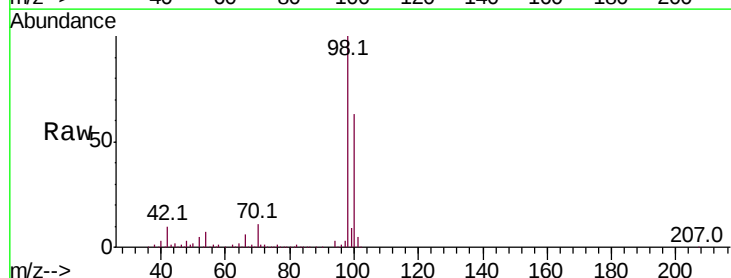
Acq: 24 Aug 2018 10:02

Tgt Ion: 98 Resp: 779634

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

500000

400000

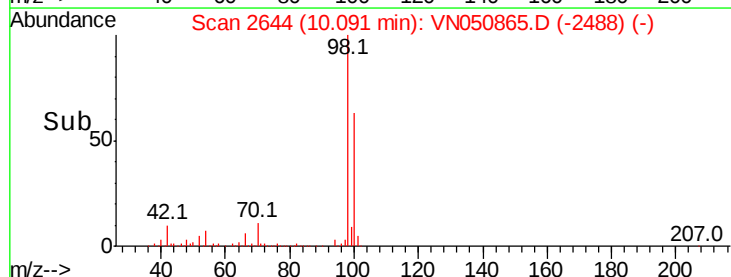
300000

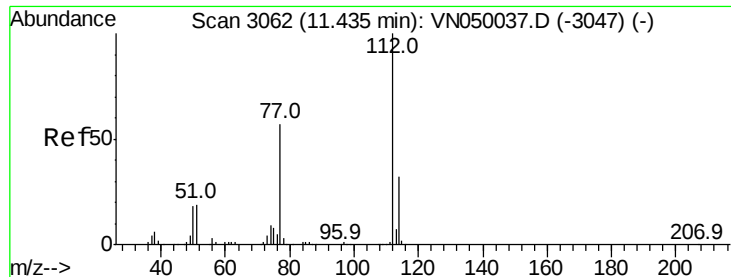
200000

100000

0

Time-->

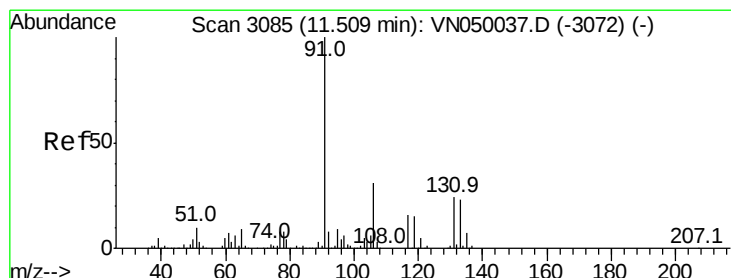
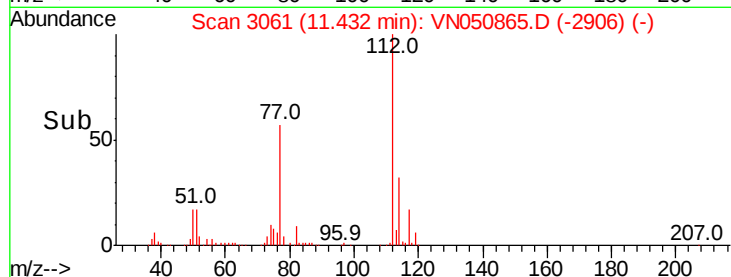
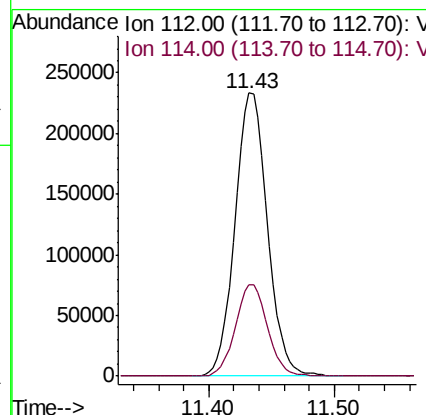
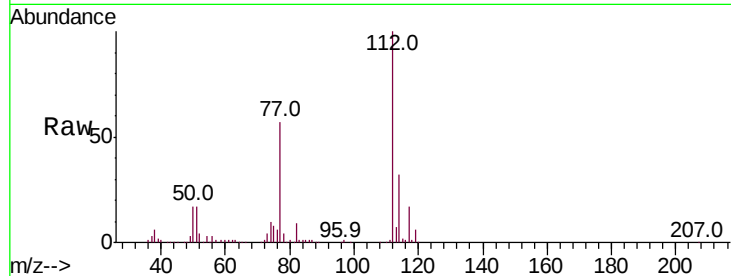




#64  
Chlorobenzene  
Concen: 22.360 ug/l  
RT: 11.43 min Scan# 3061  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

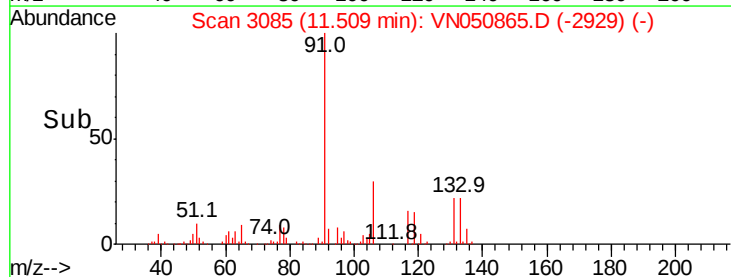
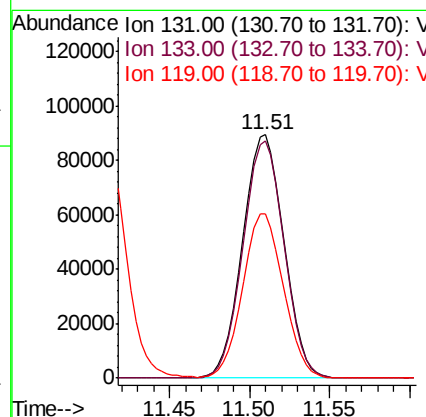
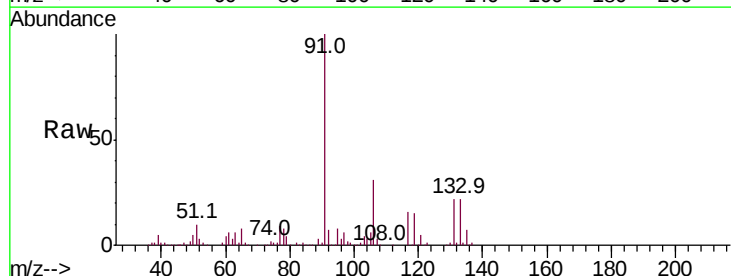
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0824WBSD01

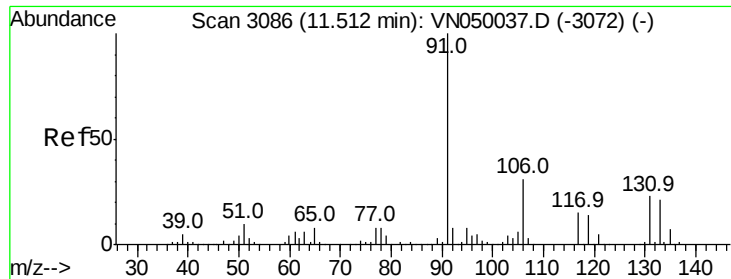
Tot Ion:112 Resp: 418683  
Ion Ratio Lower Upper  
112 100  
114 32.5 26.2 39.2



#65  
1,1,1,2-Tetrachloroethane  
Concen: 21.553 ug/l  
RT: 11.51 min Scan# 3085  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion:131 Resp: 157407  
Ion Ratio Lower Upper  
131 100  
133 96.8 0.0 190.0  
119 66.1 0.0 131.6





#66

Ethyl Benzene

Concen: 21.764 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

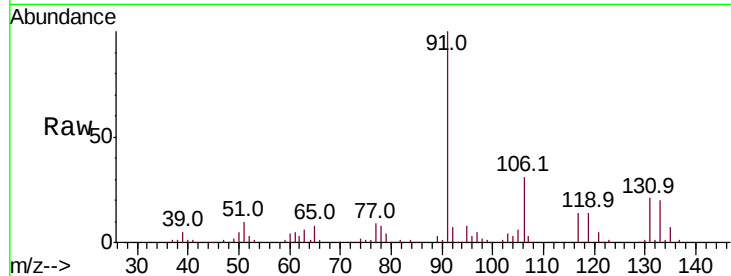
VN0824WBSD01

Tot Ion: 91 Resp: 686783

Ion Ratio Lower Upper

91 100

106 31.3 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3072) (-)

Ion 106.00 (105.70 to 106.70): VN050037.D (-3072) (-)

600000

500000

400000

300000

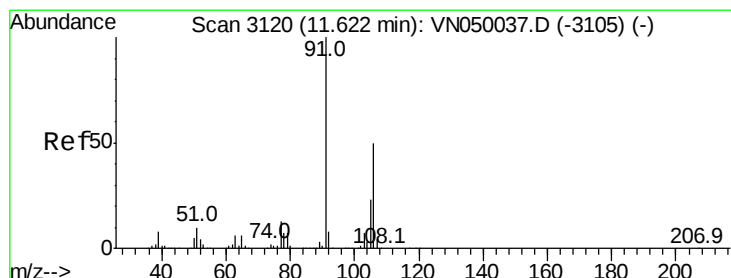
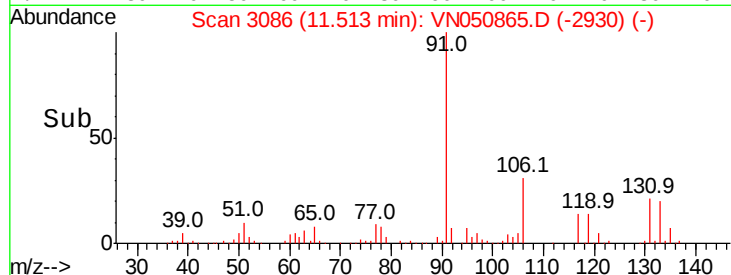
200000

100000

0

11.45 11.50 11.55 11.60

Time-->



#67

m/p-Xylenes

Concen: 44.810 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050865.D

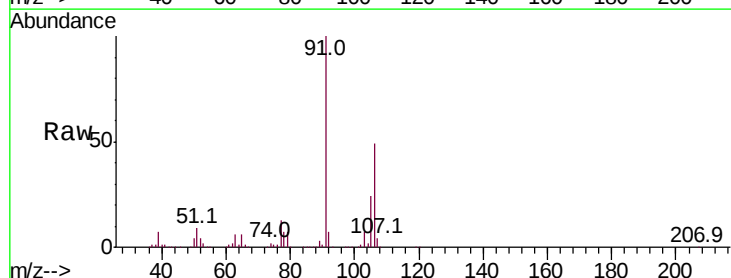
Acq: 24 Aug 2018 10:02

Tgt Ion:106 Resp: 544158

Ion Ratio Lower Upper

106 100

91 200.6 162.5 243.7



Abundance Ion 106.00 (105.70 to 106.70): VN050037.D (-3105) (-)

Ion 91.00 (90.70 to 91.70): VN050037.D (-3105) (-)

600000

500000

400000

300000

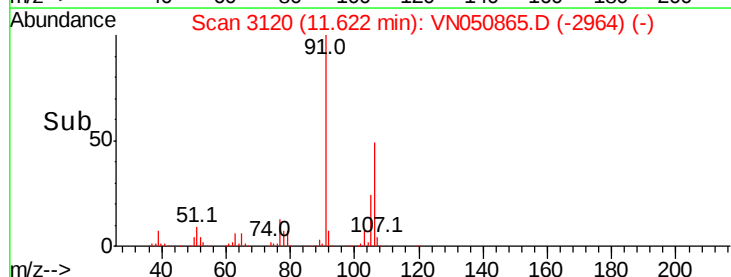
200000

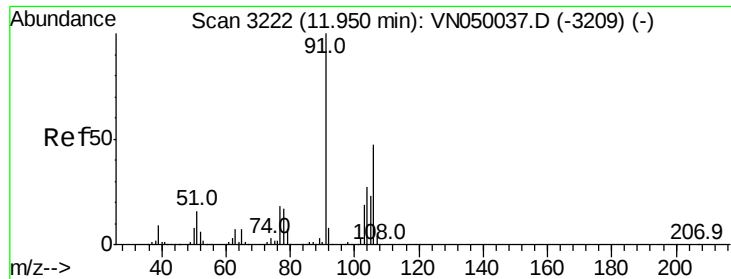
100000

0

11.60 11.62 11.64 11.66 11.68 11.70

Time-->

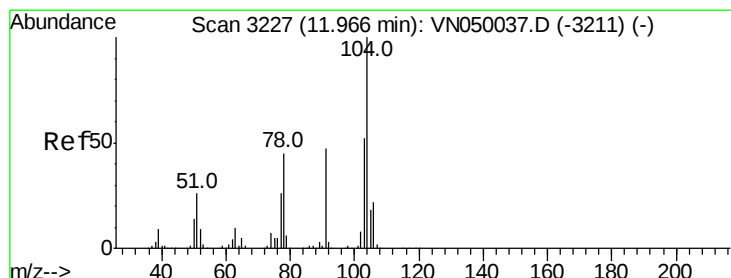
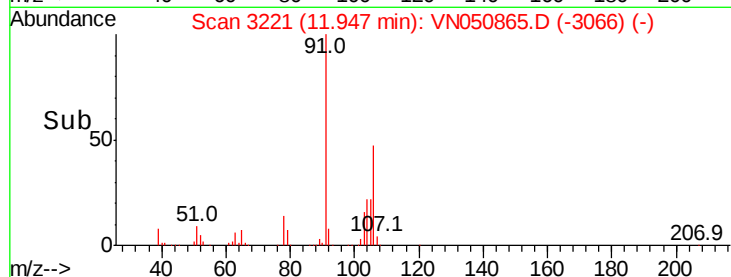
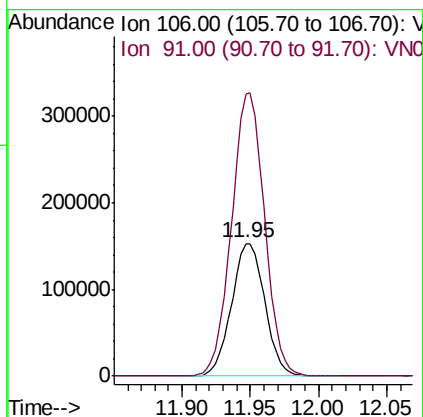
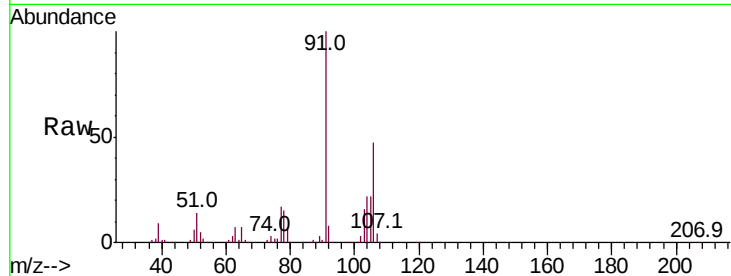




#68  
o-Xylene  
Concen: 22.400 ug/l  
RT: 11.95 min Scan# 3221  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

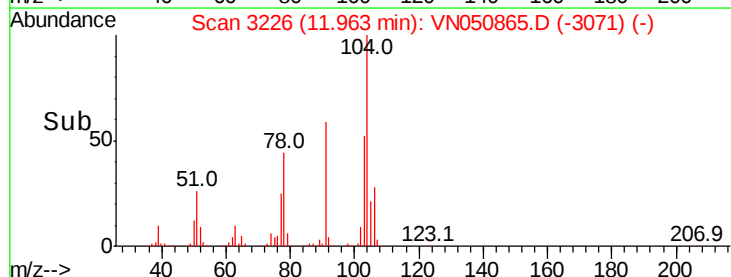
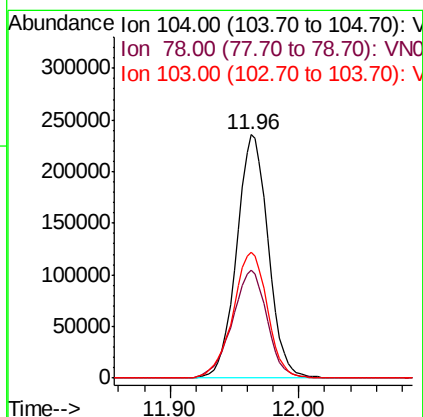
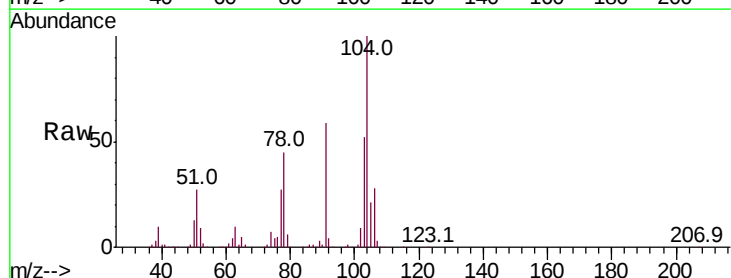
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

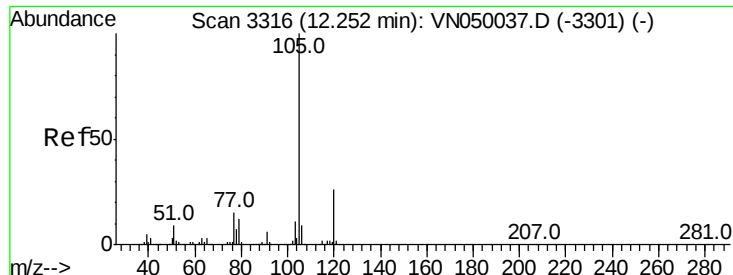
Tot Ion:106 Resp: 258812  
Ion Ratio Lower Upper  
106 100  
91 212.1 106.8 320.4



#69  
Styrene  
Concen: 21.670 ug/l  
RT: 11.96 min Scan# 3226  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion:104 Resp: 401382  
Ion Ratio Lower Upper  
104 100  
78 49.0 39.3 58.9  
103 56.3 44.5 66.7





#70

Isopropylbenzene

Concen: 22.023 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

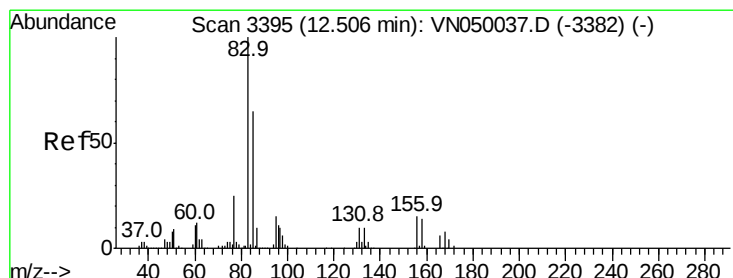
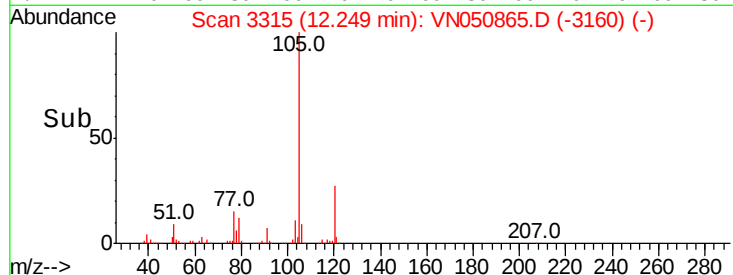
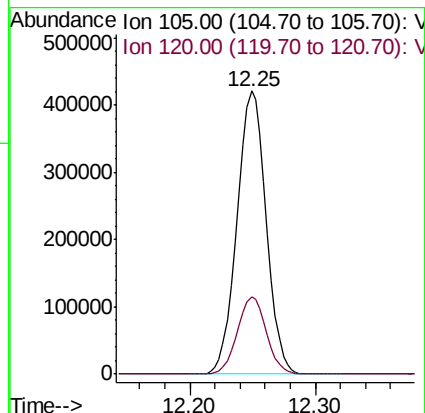
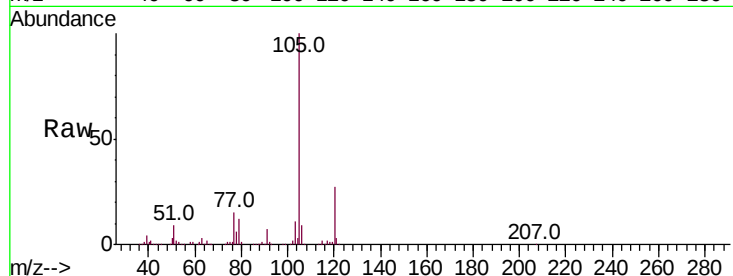
VN0824WBSD01

Tot Ion:105 Resp: 677683

Ion Ratio Lower Upper

105 100

120 27.0 18.9 35.1



#71

1,1,2,2-Tetrachloroethane

Concen: 20.880 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

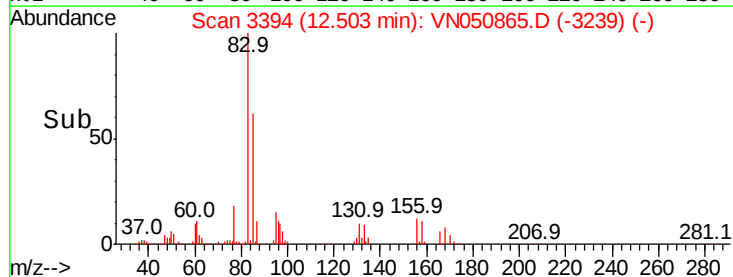
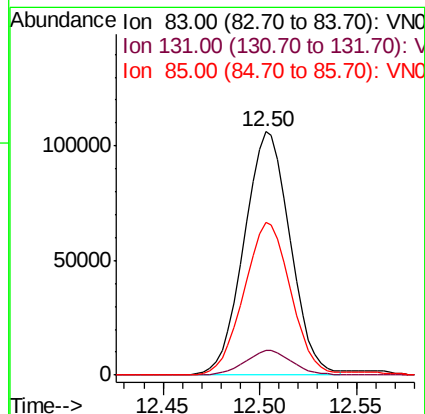
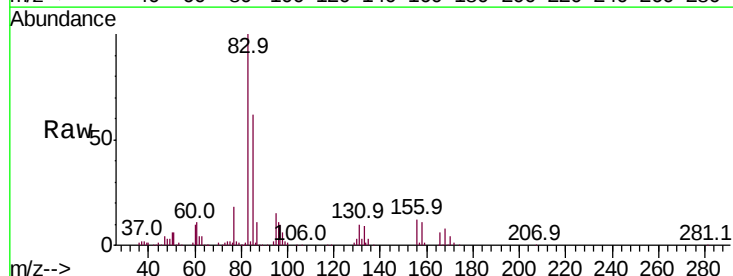
Tgt Ion: 83 Resp: 176406

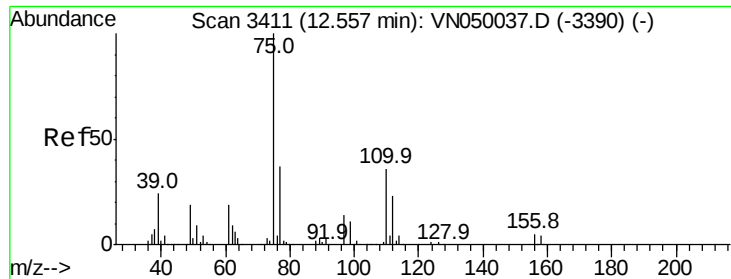
Ion Ratio Lower Upper

83 100

131 10.3 5.2 15.6

85 63.4 31.7 95.1





#72

1,2,3-Trichloropropane

Concen: 27.649 ug/l

RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

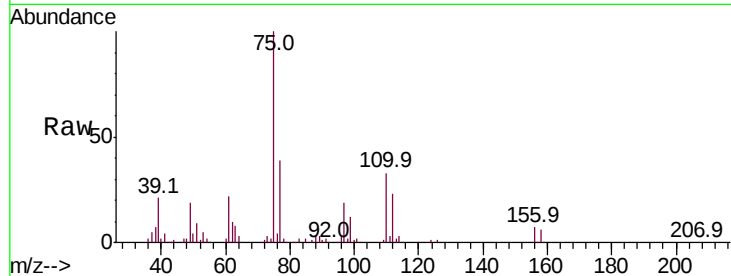
VN0824WBSD01

Tot Ion: 75 Resp: 199515

Ion Ratio Lower Upper

75 100

77 155.4 0.0 454.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

150000

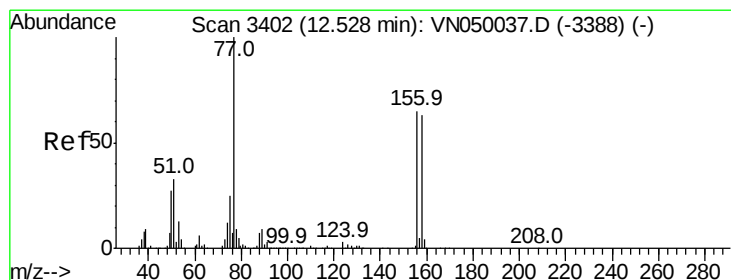
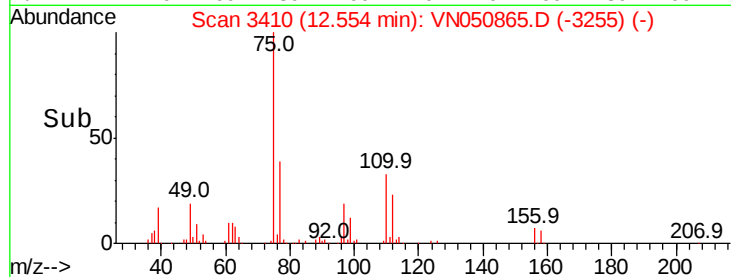
100000

50000

0

12.50 12.55

Time-->



#73

Bromobenzene

Concen: 21.783 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

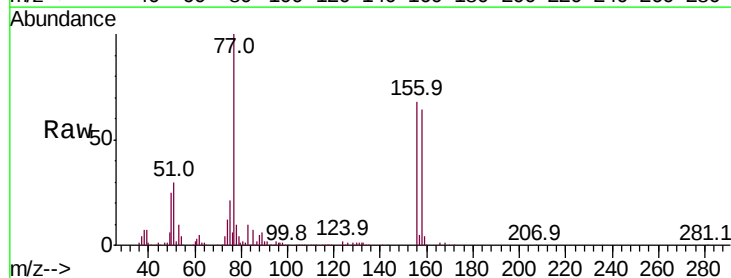
Tgt Ion: 156 Resp: 178557

Ion Ratio Lower Upper

156 100

77 173.7 0.0 359.8

158 96.3 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

200000

150000

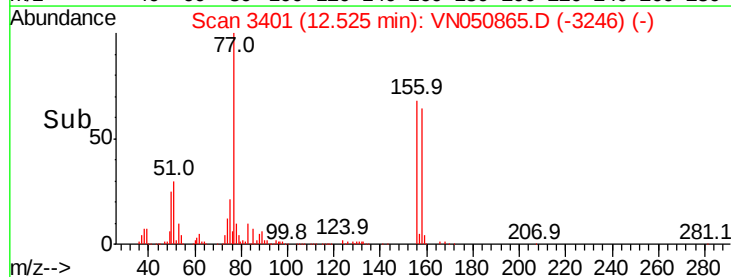
100000

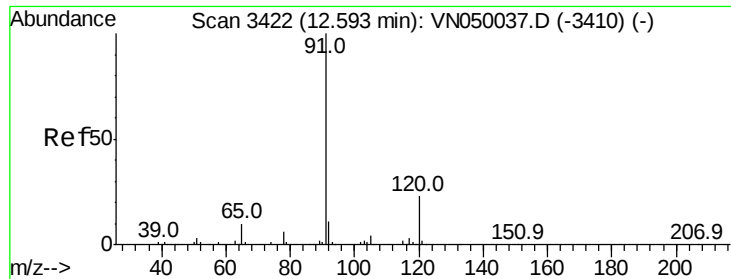
50000

0

12.50 12.53

Time-->





#74

n-propylbenzene

Concen: 21.128 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

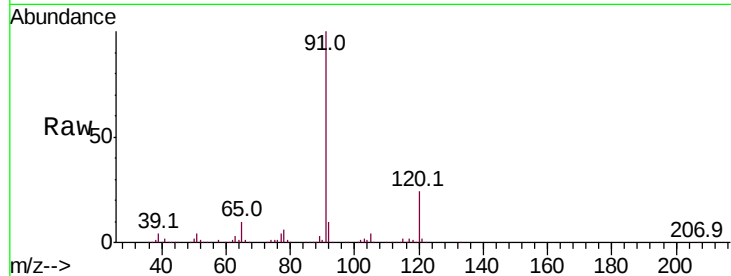
VN0824WBSD01

Tot Ion: 91 Resp: 757195

Ion Ratio Lower Upper

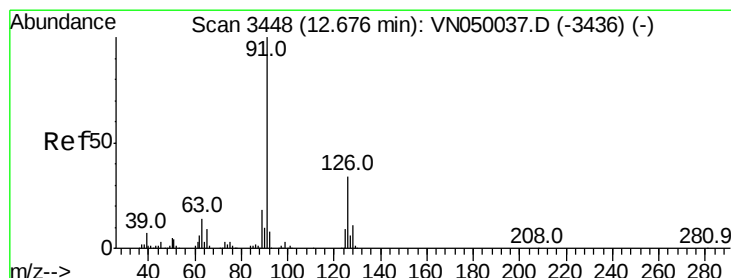
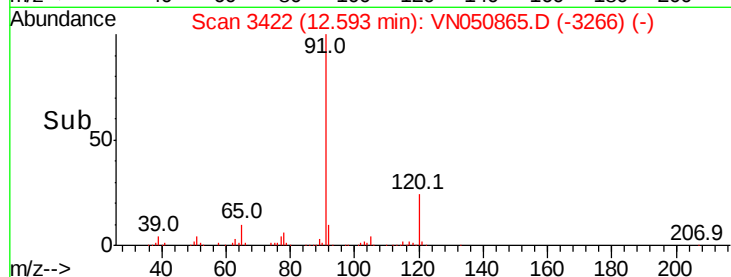
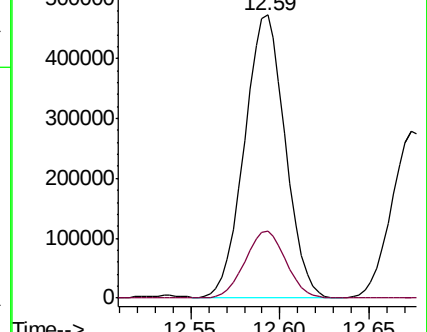
91 100

120 23.6 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3410) (-)

Ion 120.00 (119.70 to 120.70): VN050037.D (-3410) (-)



#75

2-Chlorotoluene

Concen: 21.830 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050865.D

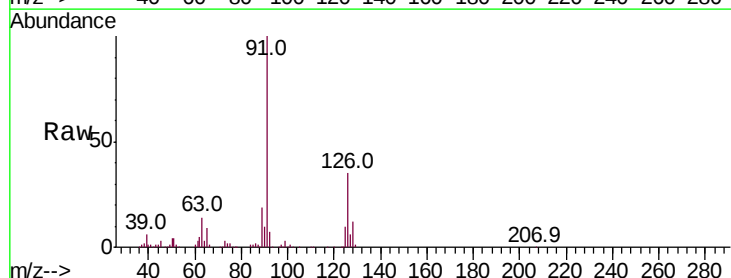
Acq: 24 Aug 2018 10:02

Tgt Ion: 91 Resp: 469903

Ion Ratio Lower Upper

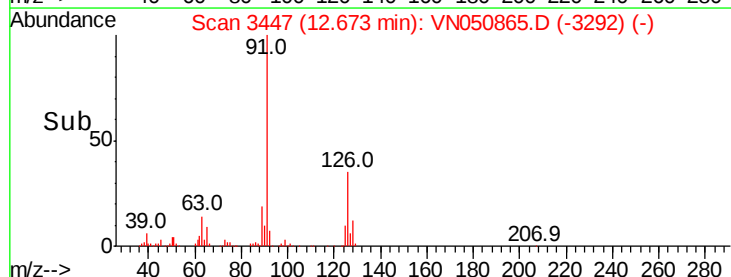
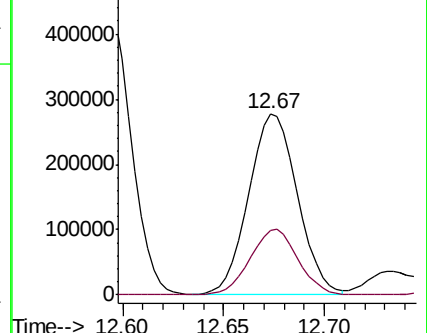
91 100

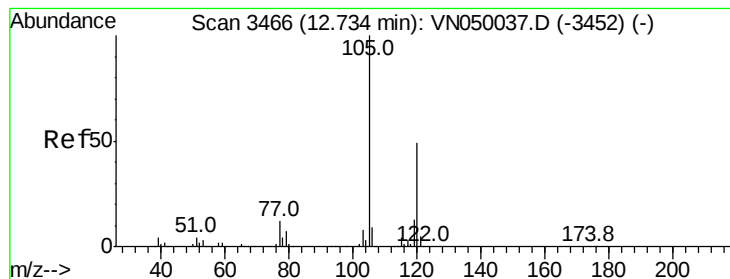
126 35.5 0.0 68.6



Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3436) (-)

Ion 126.00 (125.70 to 126.70): VN050037.D (-3436) (-)





#76

1,3,5-Trimethylbenzene

Concen: 22.592 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

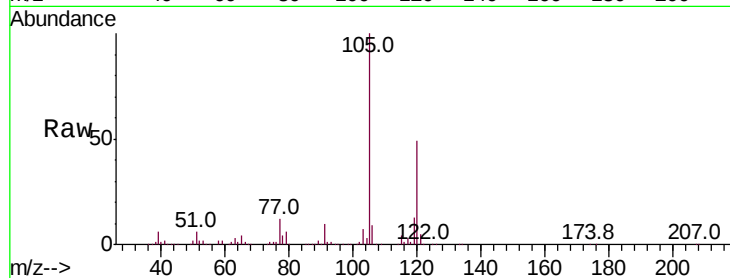
VN0824WBSD01

Tot Ion:105 Resp: 570993

Ion Ratio Lower Upper

105 100

120 49.3 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

400000

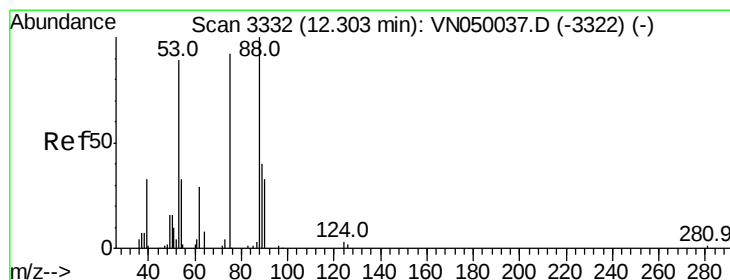
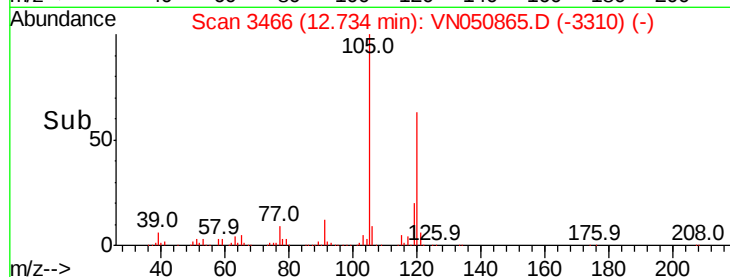
300000

200000

100000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 17.204 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

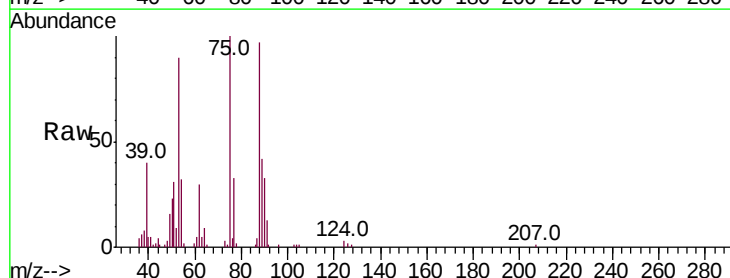
Tgt Ion: 75 Resp: 40587

Ion Ratio Lower Upper

75 100

53 88.9 44.6 134.0

89 41.7 20.7 62.1



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

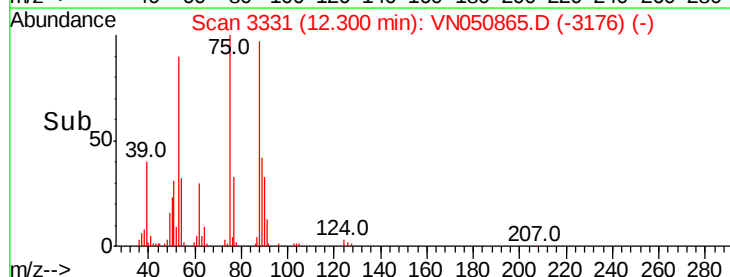
60000

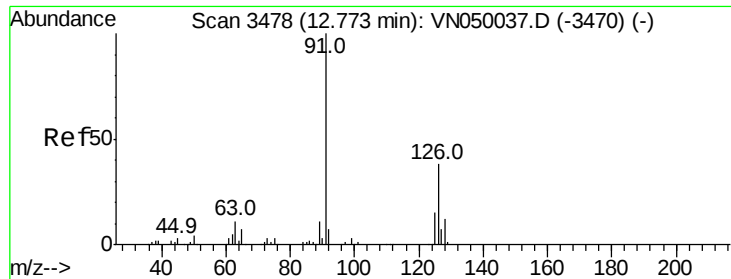
40000

20000

0

Time-->

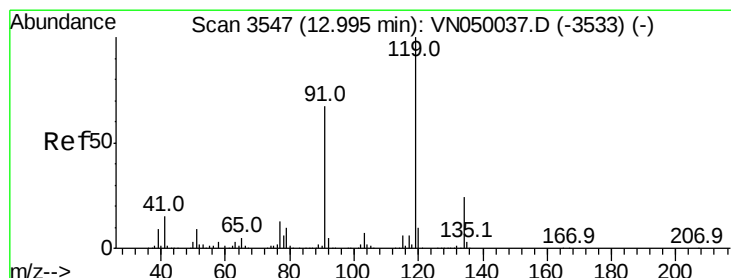
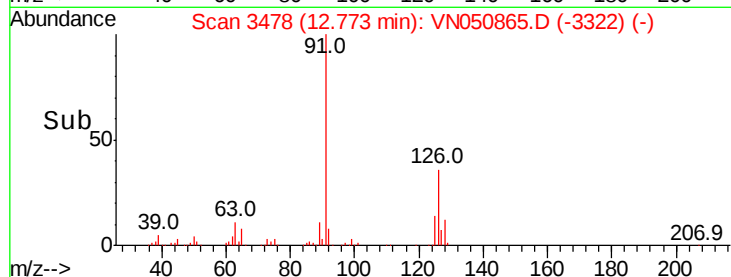
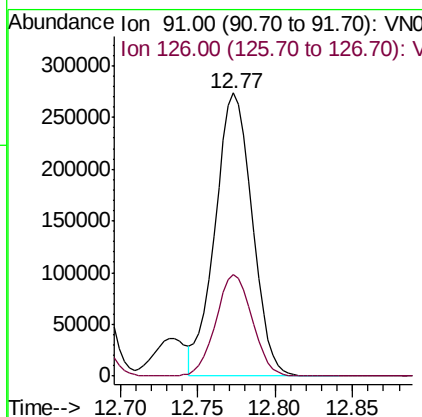
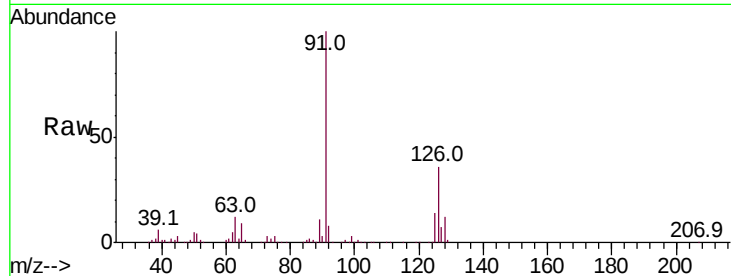




#78  
4-Chlorotoluene  
Concen: 21.318 ug/l  
RT: 12.77 min Scan# 3478  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

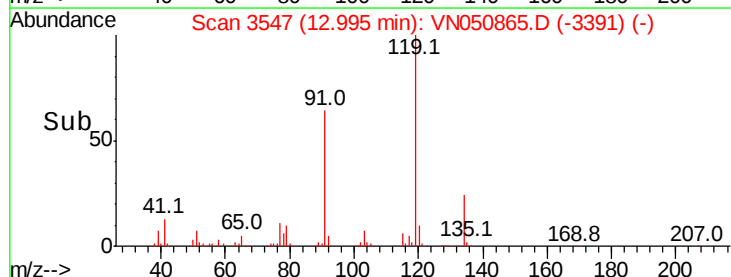
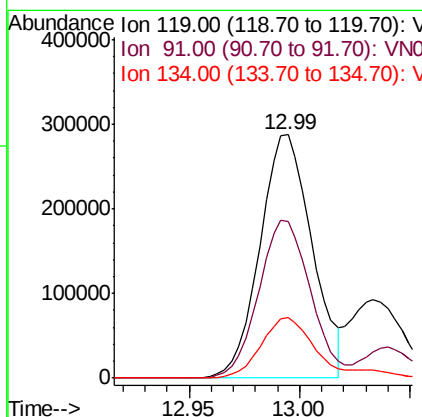
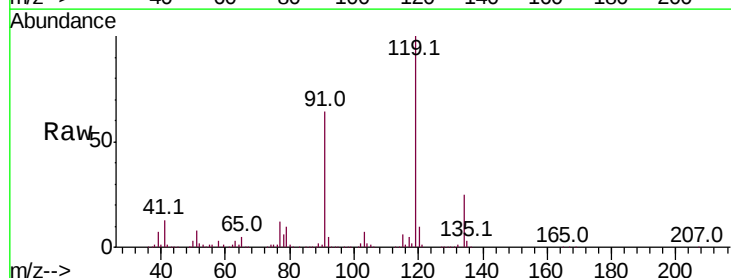
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

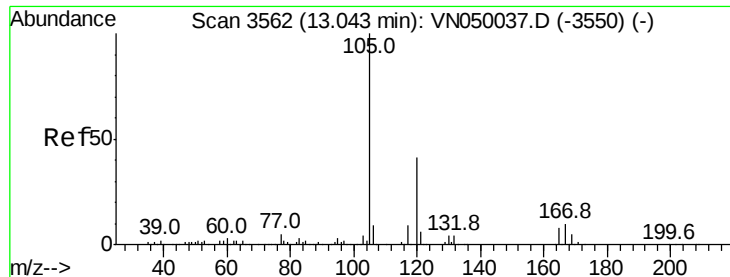
Tot Ion: 91 Resp: 454739  
Ion Ratio Lower Upper  
91 100  
126 35.3 0.0 68.4



#79  
tert-butylbenzene  
Concen: 21.845 ug/l  
RT: 12.99 min Scan# 3547  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion: 119 Resp: 472025  
Ion Ratio Lower Upper  
119 100  
91 64.5 0.0 126.8  
134 25.1 0.0 47.4

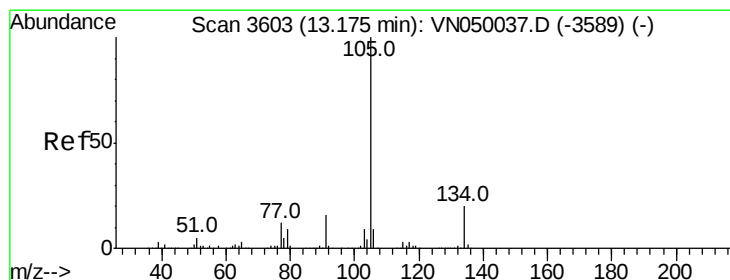
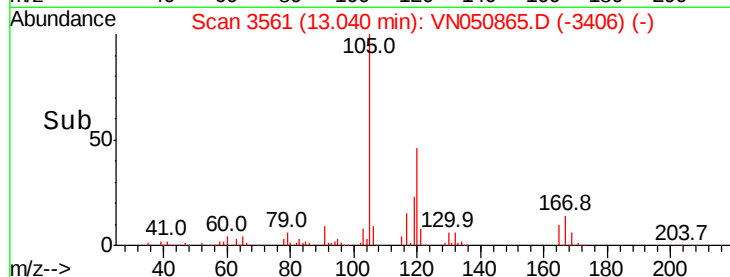
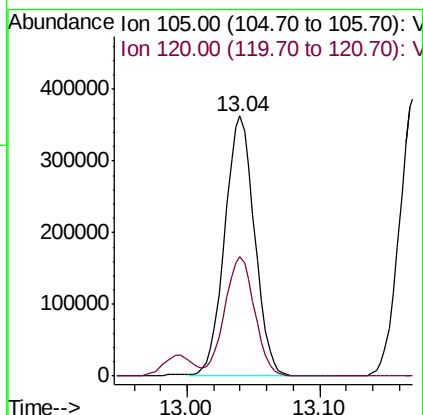
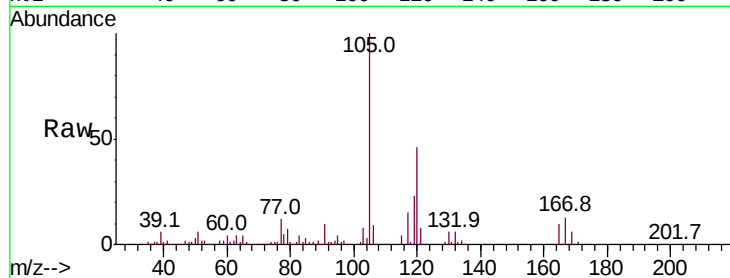




#80  
 1,2,4-Trimethylbenzene  
 Concen: 22.133 ug/l  
 RT: 13.04 min Scan# 3561  
 Delta R.T. -0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

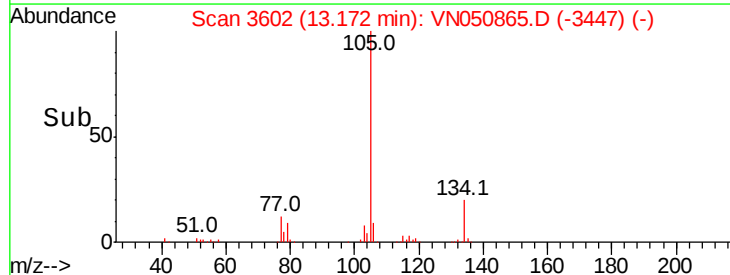
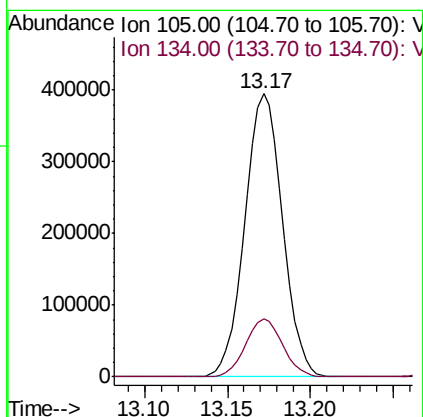
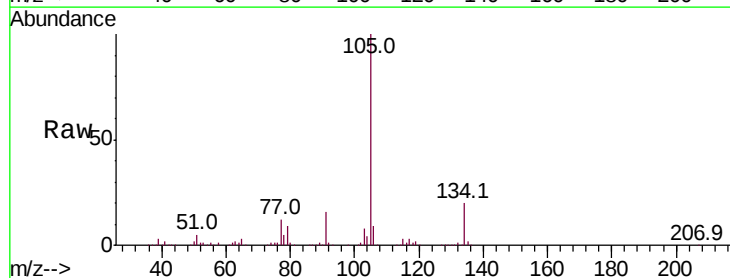
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0824WBSD01

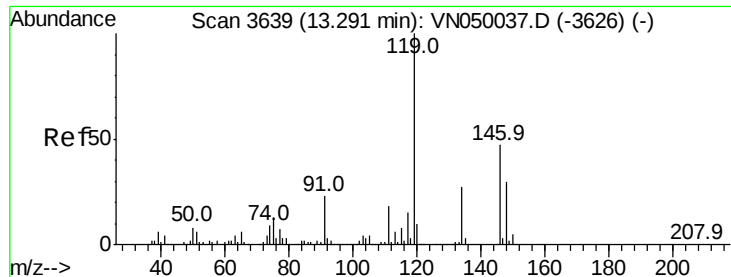
Tot Ion:105 Resp: 566751  
 Ion Ratio Lower Upper  
 105 100  
 120 46.1 0.0 90.6



#81  
 sec-Butylbenzene  
 Concen: 21.278 ug/l  
 RT: 13.17 min Scan# 3602  
 Delta R.T. -0.00 min  
 Lab File: VN050865.D  
 Acq: 24 Aug 2018 10:02

Tgt Ion:105 Resp: 624577  
 Ion Ratio Lower Upper  
 105 100  
 134 20.3 0.0 40.6





#82

p-Isopropyltoluene

Concen: 21.576 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

VN0824WBSD01

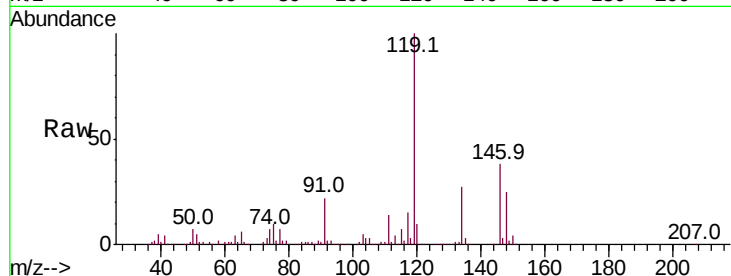
Tot Ion:119 Resp: 540394

Ion Ratio Lower Upper

119 100

134 26.7 0.0 52.2

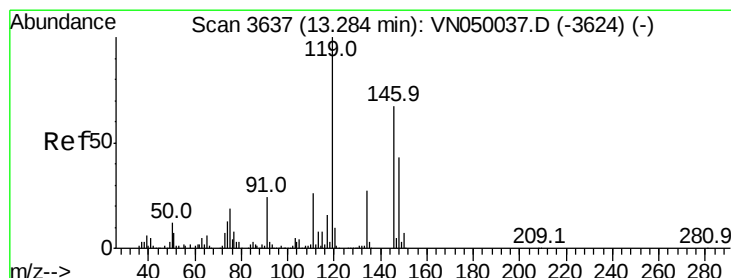
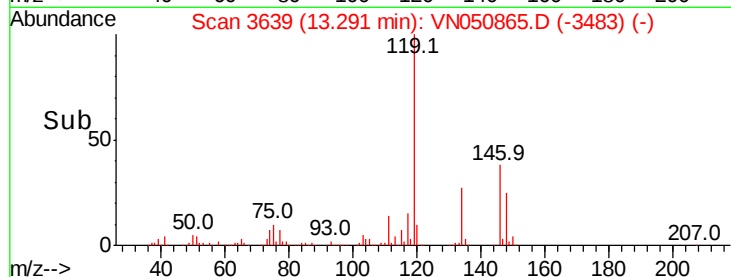
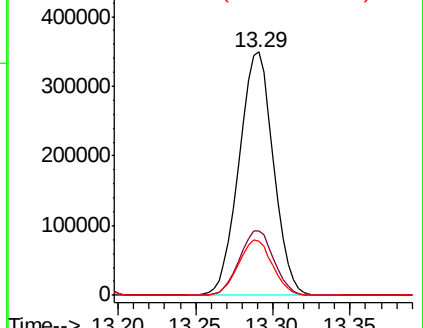
91 22.7 0.0 45.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#83

1,3-Dichlorobenzene

Concen: 20.442 ug/l

RT: 13.28 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

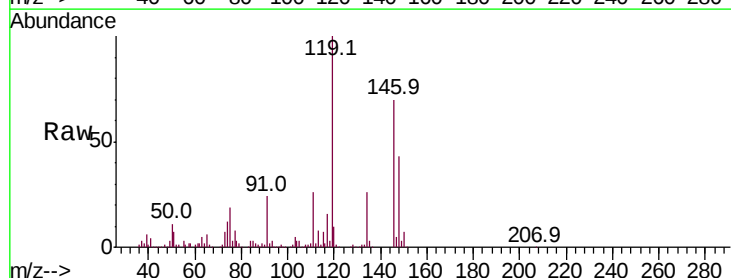
Tgt Ion:146 Resp: 291771

Ion Ratio Lower Upper

146 100

111 37.5 19.1 57.1

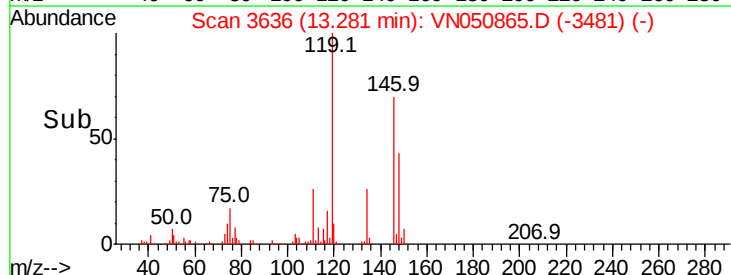
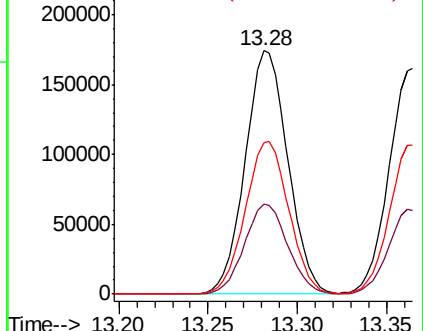
148 63.9 31.9 95.9

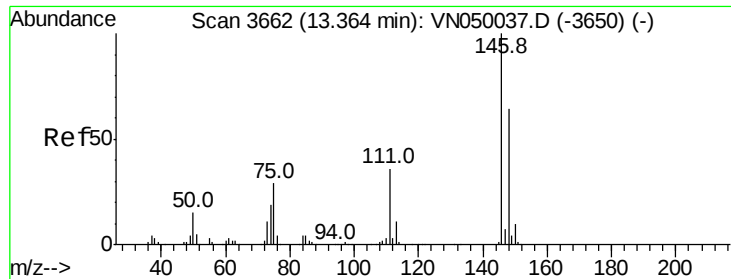


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#84

1,4-Dichlorobenzene

Concen: 20.090 ug/l

RT: 13.36 min Scan# 3662

Delta R.T. 0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampled :

VN0824WBSD01

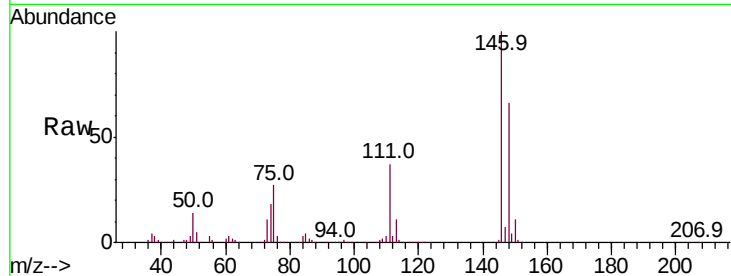
Tot Ion:146 Resp: 270979

Ion Ratio Lower Upper

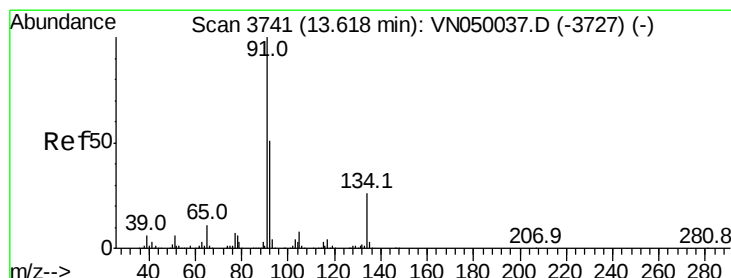
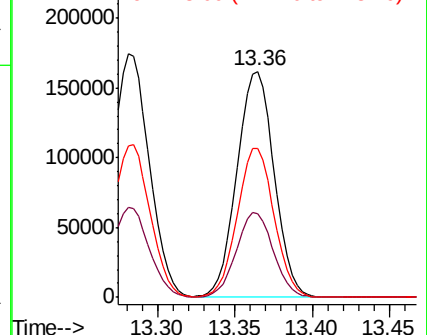
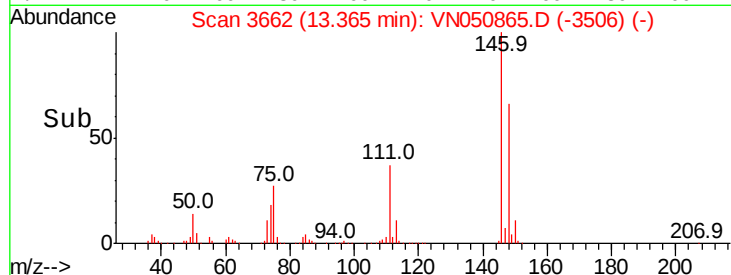
146 100

111 37.2 17.9 53.8

148 65.1 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#85

n-Butylbenzene

Concen: 19.018 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

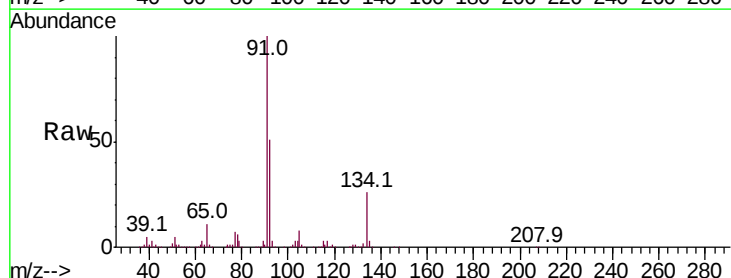
Tgt Ion: 91 Resp: 386564

Ion Ratio Lower Upper

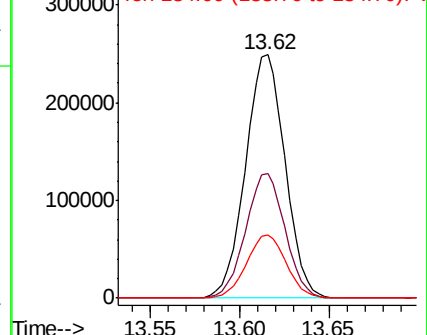
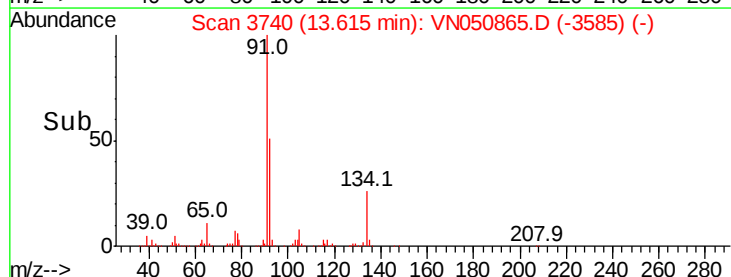
91 100

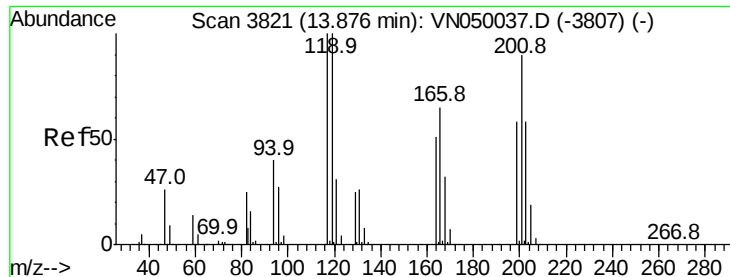
92 50.8 0.0 102.8

134 26.0 0.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 92.00 (91.70 to 92.70): V  
Ion 134.00 (133.70 to 134.70): V

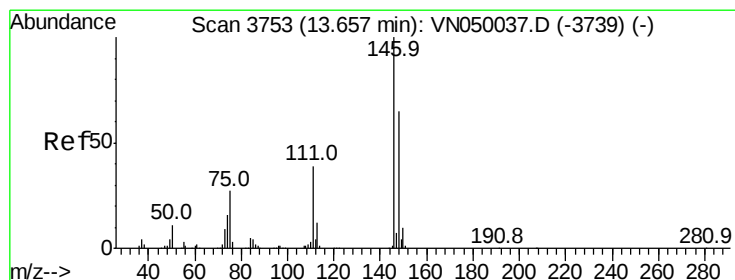
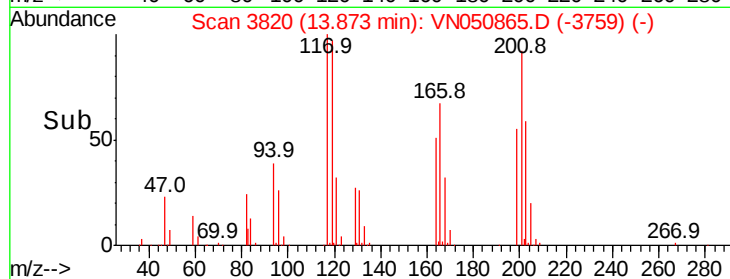
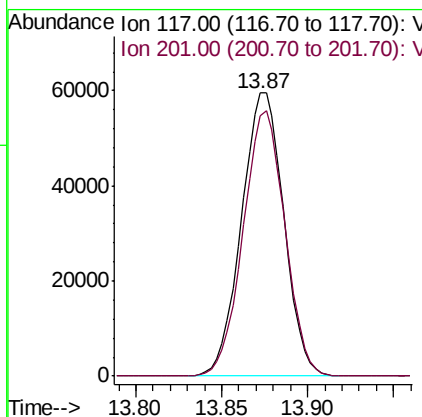
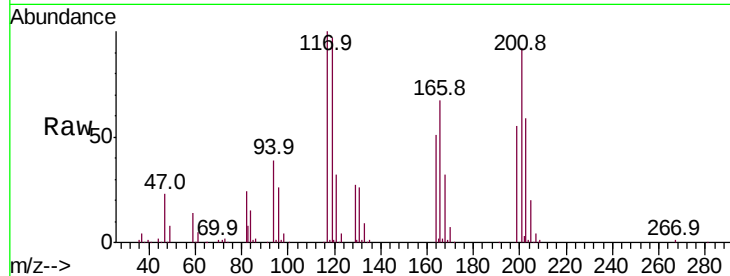




#86  
Hexachloroethane  
Concen: 20.337 ug/l  
RT: 13.87 min Scan# 3820  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

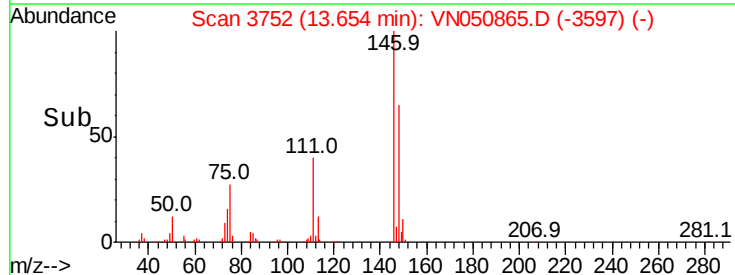
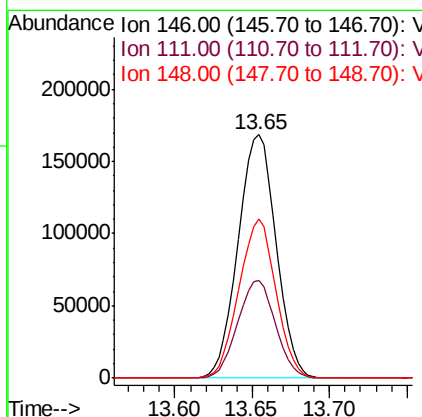
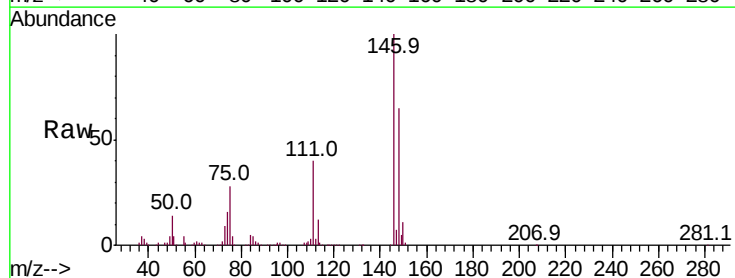
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0824WBSD01

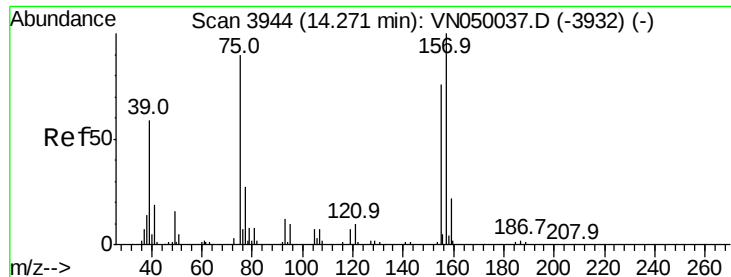
Tot Ion:117 Resp: 101789  
Ion Ratio Lower Upper  
117 100  
201 92.3 46.6 139.7



#87  
1,2-Dichlorobenzene  
Concen: 20.702 ug/l  
RT: 13.65 min Scan# 3752  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion:146 Resp: 288833  
Ion Ratio Lower Upper  
146 100  
111 39.7 19.8 59.3  
148 63.5 31.8 95.3





#88

1,2-Dibromo-3-Chloropropane

Concen: 17.164 ug/l

RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

VN0824WBSD01

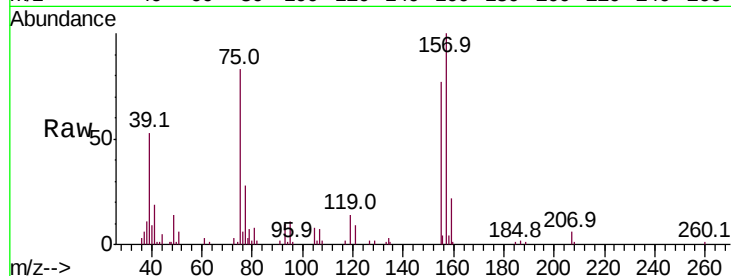
Tot Ion: 75 Resp: 22591

Ion Ratio Lower Upper

75 100

155 92.8 73.0 109.6

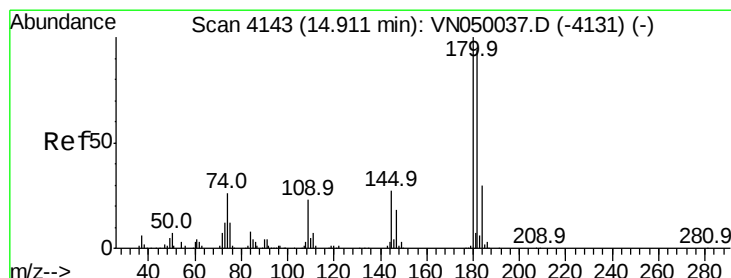
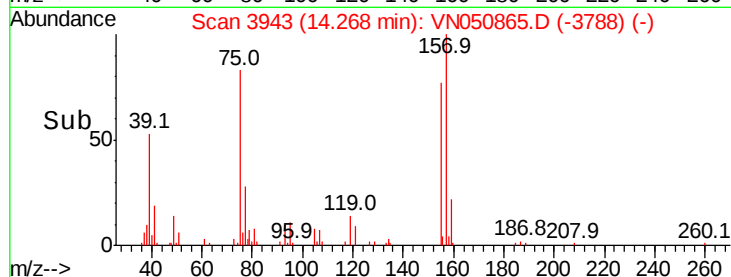
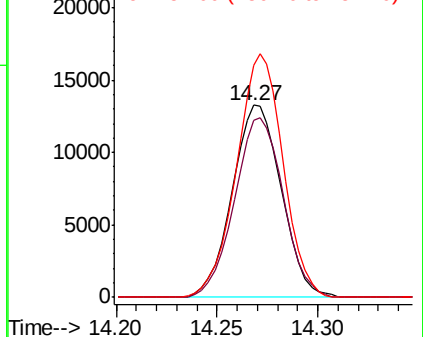
157 120.4 94.9 142.3



Abundance Ion 75.00 (74.70 to 75.70): VN050037.D (-3932) (-)

Ion 155.00 (154.70 to 155.70): VN050037.D (-3932) (-)

Ion 157.00 (156.70 to 157.70): VN050037.D (-3932) (-)



#89

1,2,4-Trichlorobenzene

Concen: 15.983 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

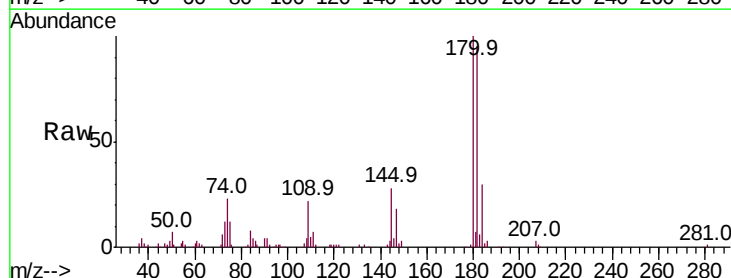
Tgt Ion: 180 Resp: 106510

Ion Ratio Lower Upper

180 100

182 95.1 76.7 115.1

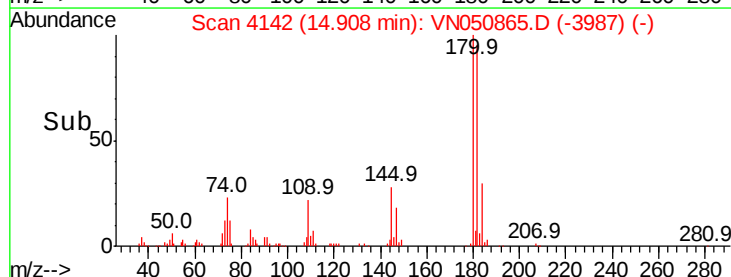
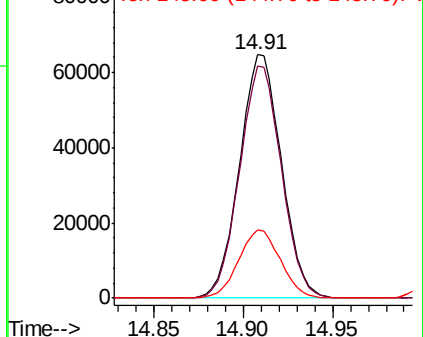
145 27.8 23.4 35.0

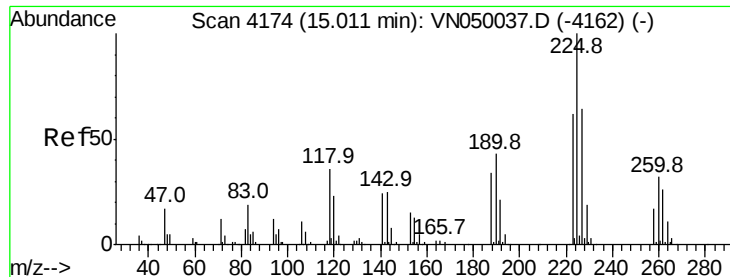


Abundance Ion 180.00 (179.70 to 180.70): VN050037.D (-4131) (-)

Ion 182.00 (181.70 to 182.70): VN050037.D (-4131) (-)

Ion 145.00 (144.70 to 145.70): VN050037.D (-4131) (-)

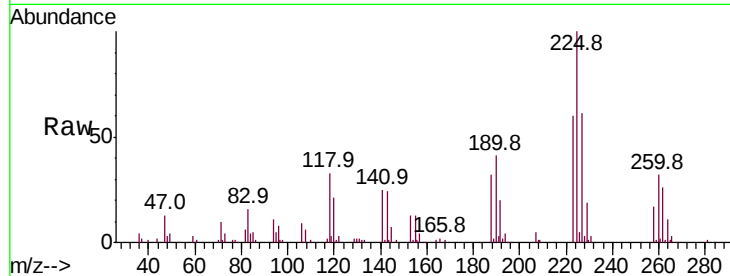




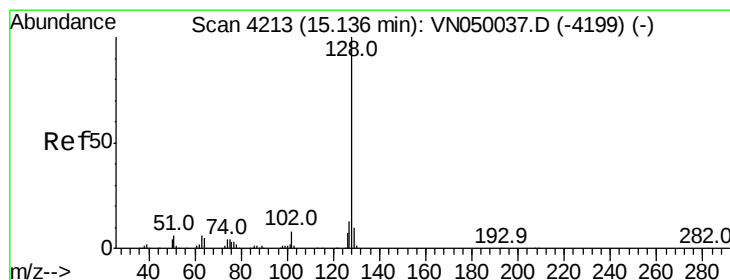
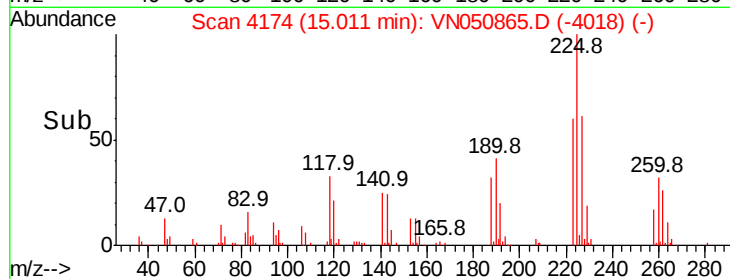
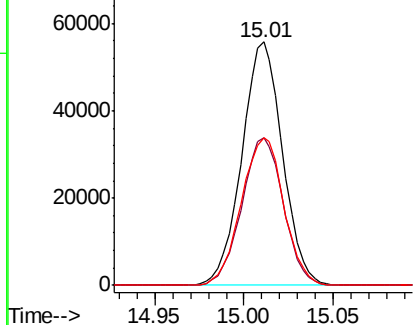
#90  
Hexachlorobutadiene  
Concen: 20.199 ug/l  
RT: 15.01 min Scan# 4174  
Delta R.T. 0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0824WBSD01

Tot Ion:225 Resp: 88748  
Ion Ratio Lower Upper  
225 100  
223 61.7 0.0 124.4  
227 63.4 0.0 133.0

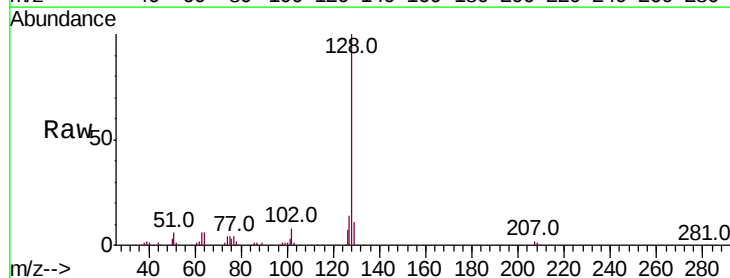


Abundance Ion 225.00 (224.70 to 225.70): V  
Ion 223.00 (222.70 to 223.70): V  
Ion 227.00 (226.70 to 227.70): V

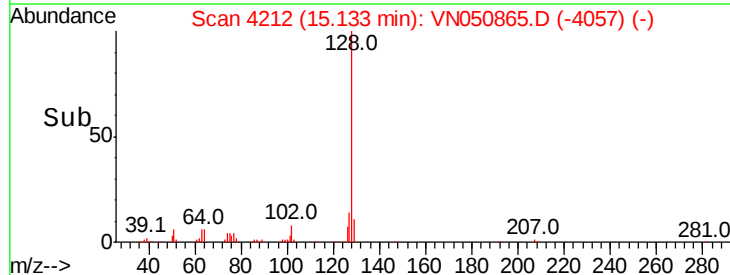
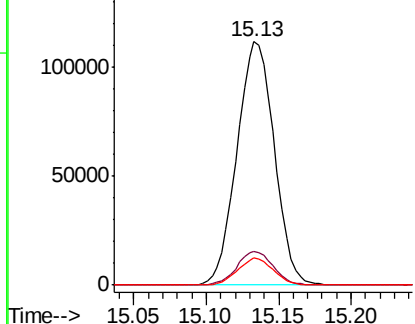


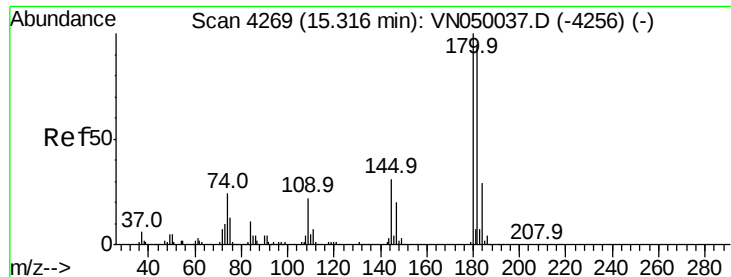
#91  
Naphthalene  
Concen: 17.227 ug/l  
RT: 15.13 min Scan# 4212  
Delta R.T. -0.00 min  
Lab File: VN050865.D  
Acq: 24 Aug 2018 10:02

Tgt Ion:128 Resp: 200237  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.2 15.4  
129 10.6 9.0 13.4



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





#92

1,2,3-Trichlorobenzene

Concen: 16.592 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.00 min

Lab File: VN050865.D

Acq: 24 Aug 2018 10:02

Instrument :

MSVOA\_N

ClientSampleId :

VN0824WBSD01

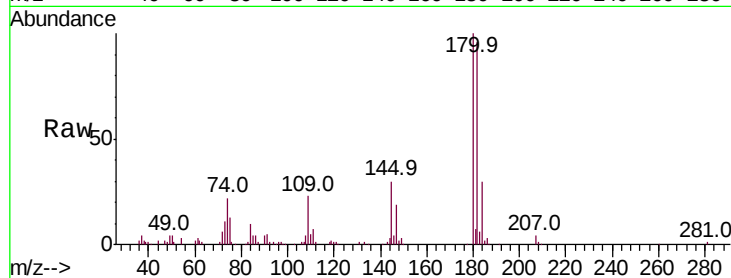
Tot Ion:180 Resp: 112445

Ion Ratio Lower Upper

180 100

182 95.5 0.0 188.8

145 29.4 0.0 60.8



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

