

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\  
 Data File : VN049411.D  
 Acq On : 20 Jun 2018 3:12  
 Operator : MD\SY  
 Sample : VN0619WBS02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 6/20/2018 4:54:03 PM

Quant Time: Jun 20 07:17:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1425283  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2183184  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1954309  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 902056   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 896392   | 47.42 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 94.84% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 807563   | 45.72 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 91.44% |          |
| 50) Toluene-d8              | 10.09 | 98   | 3012640  | 44.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 89.58% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 965791   | 43.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 86.86% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 323001   | 19.689  | ug/l   | 98     |
| 3) Chloromethane              | 2.06 | 50   | 397739   | 18.776  | ug/l   | 97     |
| 4) Vinyl Chloride             | 2.18 | 62   | 433342   | 19.248  | ug/l   | 98     |
| 5) Bromomethane               | 2.57 | 94   | 226386   | 19.128  | ug/l   | 97     |
| 6) Chloroethane               | 2.71 | 64   | 267687   | 19.941  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 3.02 | 101  | 555391   | 19.774  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.41 | 74   | 189237   | 19.299  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101  | 344538   | 19.341  | ug/l   | 94     |
| 10) Methyl Iodide             | 3.95 | 142  | 361180   | 19.476  | ug/l   | 93     |
| 11) Tert butyl alcohol        | 4.80 | 59   | 98900    | 89.137  | ug/l # | 86     |
| 12) 1,1-Dichloroethene        | 3.73 | 96   | 315426   | 19.301  | ug/l   | 91     |
| 13) Acrolein                  | 3.61 | 56   | 156887   | 134.836 | ug/l   | 96     |
| 14) Allyl chloride            | 4.33 | 41   | 473037   | 18.332  | ug/l   | 89     |
| 15) Acrylonitrile             | 4.99 | 53   | 533740   | 96.204  | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43   | 371428   | 80.922  | ug/l # | 89     |
| 17) Carbon Disulfide          | 4.05 | 76   | 940303   | 18.357  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.33 | 43   | 291590   | 20.835  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73   | 814381   | 19.545  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.55 | 84   | 370384   | 19.321  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 5.05 | 96   | 332987   | 19.246  | ug/l   | 91     |
| 22) Diisopropyl ether         | 5.96 | 45   | 1042817  | 20.237  | ug/l   | 97     |
| 23) Vinyl Acetate             | 5.90 | 43   | 3238823  | 96.416  | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 638301   | 19.354  | ug/l   | 99     |
| 25) 2-Butanone                | 6.84 | 43   | 552616   | 89.664  | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 362964   | 13.627  | ug/l   | 93     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 373044   | 19.394  | ug/l   | 90     |
| 28) Bromochloromethane        | 7.20 | 49   | 273937   | 18.735  | ug/l   | 84     |
| 29) Tetrahydrofuran           | 7.22 | 42   | 381395   | 96.134  | ug/l   | 94     |
| 30) Chloroform                | 7.37 | 83   | 646119   | 19.685  | ug/l   | 100    |
| 31) Cyclohexane               | 7.66 | 56   | 546833   | 19.451  | ug/l   | 91     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 553018   | 19.747  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 473483   | 18.923  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.93 | 43   | 273600   | 20.114  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 489441   | 18.894  | ug/l   | 99     |

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 Sample : VN0619WBS02  
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 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0619WBS02

Manual Integrations  
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MMDadoda  
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Quant Time: Jun 20 07:17:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 469834   | 17.493  | ug/l   | 98       |
| 40) Benzene                    | 8.04  | 78   | 1459805  | 19.030  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 127406   | 17.325  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 451573   | 19.054  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 513730   | 19.767  | ug/l   | 98       |
| 44) Trichloroethene            | 8.84  | 130  | 384638   | 18.988  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 379483   | 18.893  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 219010   | 18.805  | ug/l   | 89       |
| 47) Bromodichloromethane       | 9.40  | 83   | 486769   | 19.019  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.20  | 41   | 225772   | 18.447  | ug/l # | 87       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 61489    | 364.014 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 1306986  | 95.950  | ug/l   | 95       |
| 52) Toluene                    | 10.16 | 92   | 890668   | 19.782  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 427767   | 17.472  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 510934   | 17.674  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 318884   | 18.999  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 356939   | 18.434  | ug/l # | 88       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 526412   | 18.932  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 448689   | 75.428  | ug/l   | 95       |
| 59) 2-Hexanone                 | 10.75 | 43   | 800730   | 91.181  | ug/l   | 94       |
| 60) Dibromochloromethane       | 10.90 | 129  | 354492   | 18.923  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 302123   | 19.365  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.63 | 164  | 429915   | 21.468  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.44 | 112  | 957386   | 19.017  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 353902   | 18.680  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.51 | 91   | 1596161  | 19.114  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.62 | 106  | 1237307  | 39.481  | ug/l   | 96       |
| 69) o-Xylene                   | 11.95 | 106  | 590198   | 19.553  | ug/l   | 96       |
| 70) Styrene                    | 11.97 | 104  | 944511   | 19.834  | ug/l   | 97       |
| 71) Bromoform                  | 12.13 | 173  | 232742   | 18.978  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 1571920  | 19.847  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.07 | 43   | 350671   | 18.076  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 344597   | 19.796  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 292491m  | 19.004  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 394139   | 18.840  | ug/l   | 91       |
| 78) n-propylbenzene            | 12.59 | 91   | 1711734  | 19.683  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 1072256  | 19.459  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1260499  | 20.248  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 77270    | 15.867  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 1051050  | 19.772  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 1059089  | 19.203  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1263633  | 20.433  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1393187  | 18.979  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 1169673  | 19.072  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 644190   | 18.718  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 615392   | 18.041  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 815468   | 17.023  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 242528   | 19.873  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 643998   | 19.079  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 49190    | 17.839  | ug/l   | 87       |

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ALS Vial : 32 Sample Multiplier: 1

Instrument :  
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Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:02:01 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 182599   | 15.426 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 191975   | 17.687 | ug/l  | 99       |
| 95) Naphthalene            | 15.14 | 128  | 364519   | 16.080 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 207060   | 16.202 | ug/l  | 98       |

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

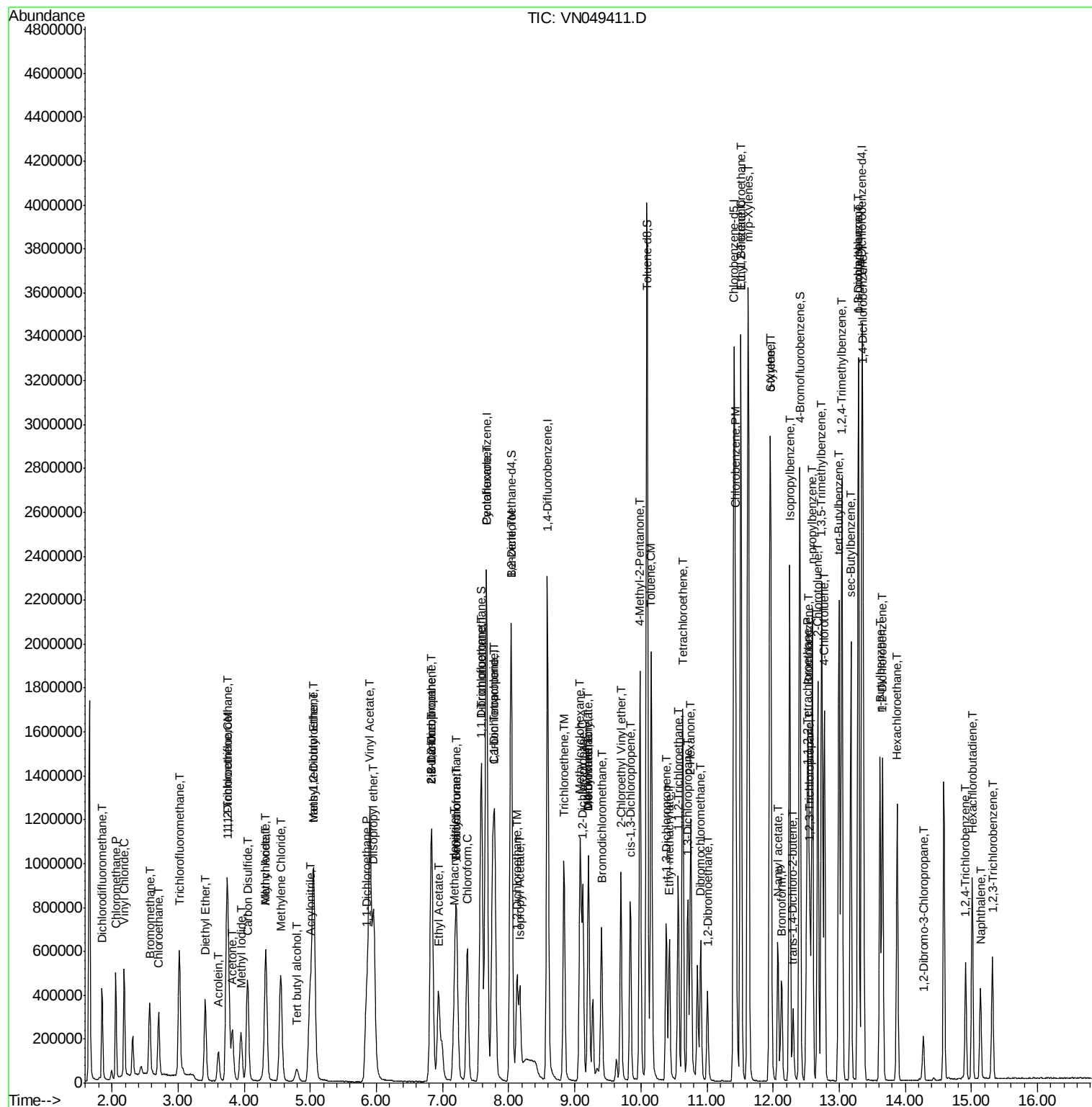
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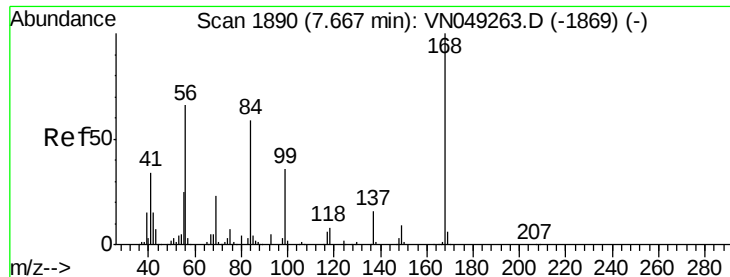
Instrument :  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion:168 Resp: 1425283

Ion Ratio Lower Upper

168 100

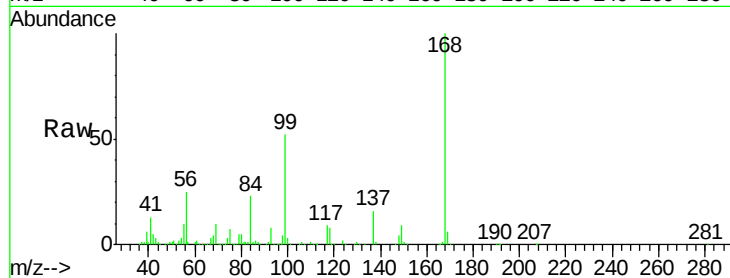
99 52.0 45.8 68.6

Manual Integrations

APPROVED

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6/20/2018 4:54:03 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

600000

400000

200000

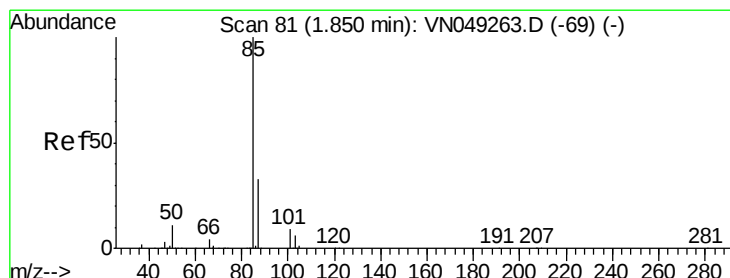
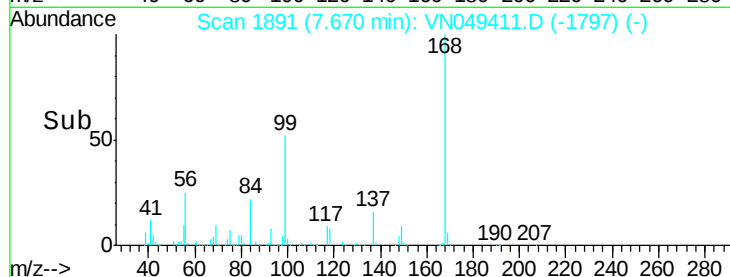
0

7.67

7.60

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.689 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN049411.D

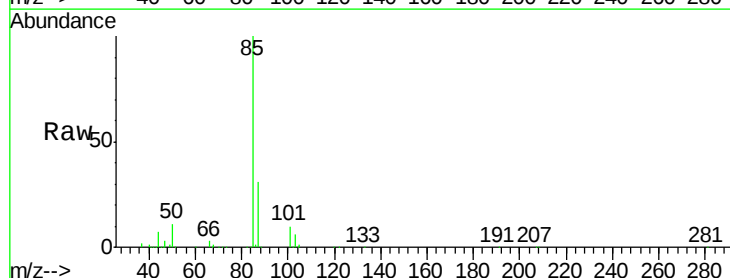
Acq: 20 Jun 2018 3:12

Tgt Ion: 85 Resp: 323001

Ion Ratio Lower Upper

85 100

87 31.2 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

250000

200000

150000

100000

50000

0

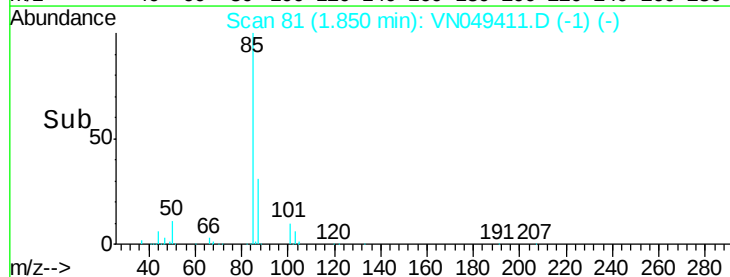
1.85

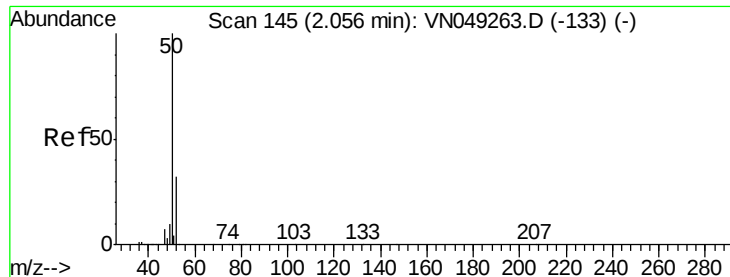
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 18.776 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion: 50 Resp: 397739

Ion Ratio Lower Upper

50 100

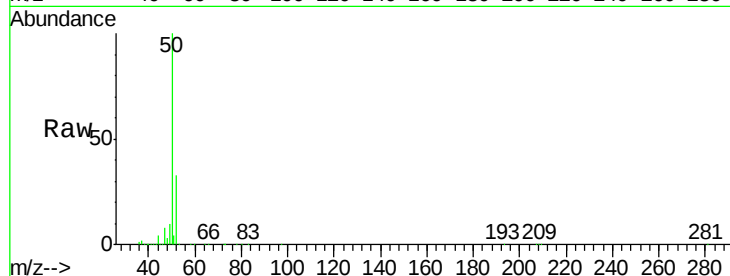
52 33.4 25.2 37.8

Manual Integrations

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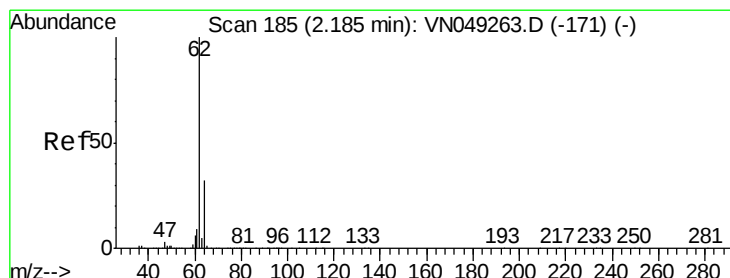
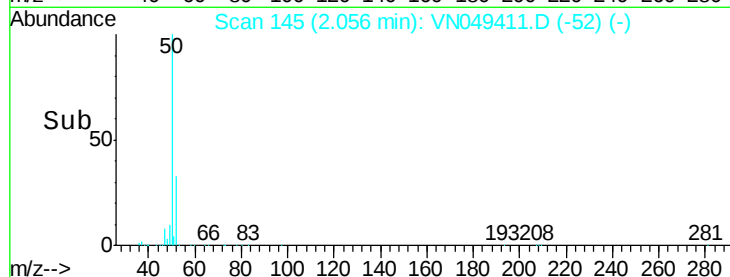
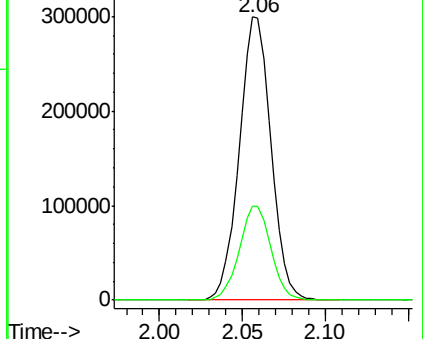
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6/20/2018 4:54:03 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 19.248 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049411.D

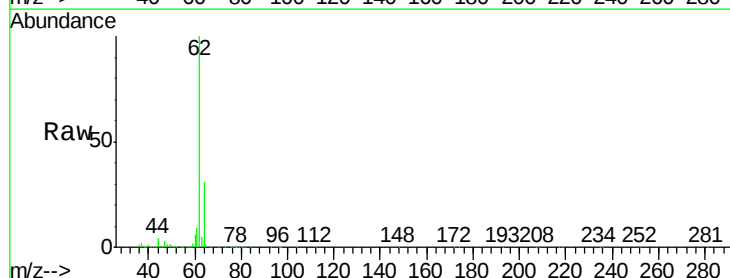
Acq: 20 Jun 2018 3:12

Tgt Ion: 62 Resp: 433342

Ion Ratio Lower Upper

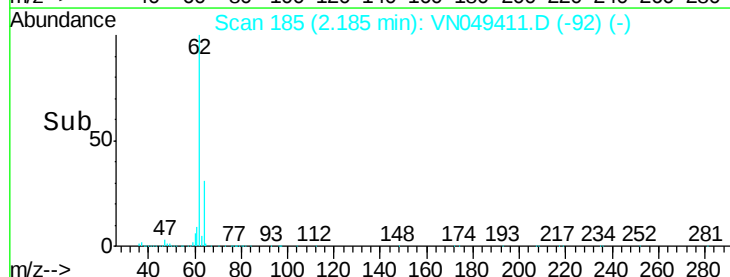
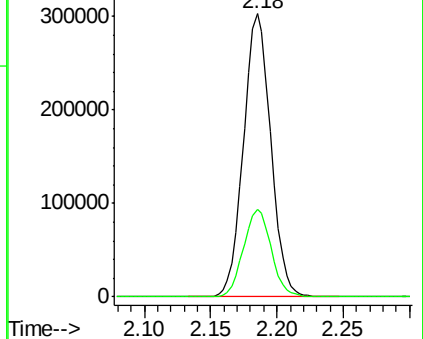
62 100

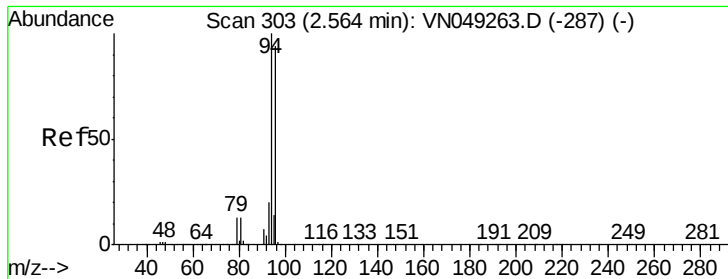
64 31.0 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 19.128 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion: 94 Resp: 226386

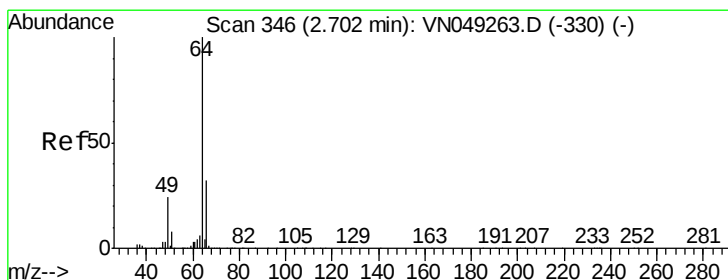
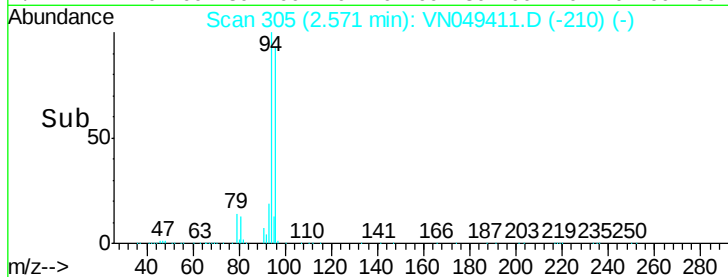
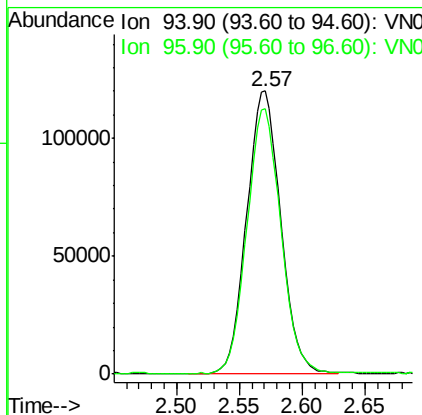
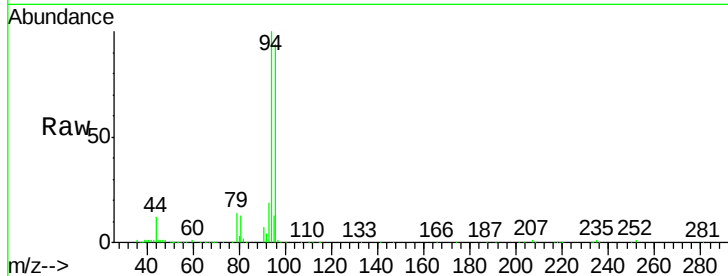
Ion Ratio Lower Upper

94 100

96 93.4 72.8 109.2

Manual Integrations  
APPROVED

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6/20/2018 4:54:03 PM



#6

Chloroethane

Concen: 19.941 ug/l

RT: 2.71 min Scan# 347

Delta R.T. 0.00 min

Lab File: VN049411.D

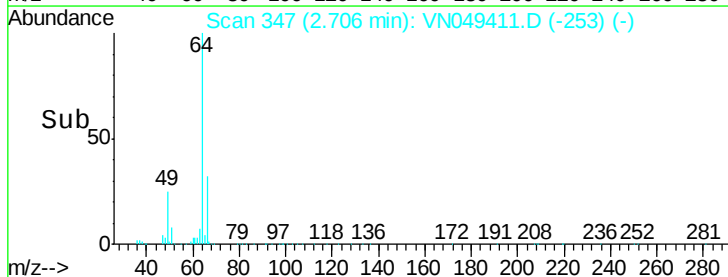
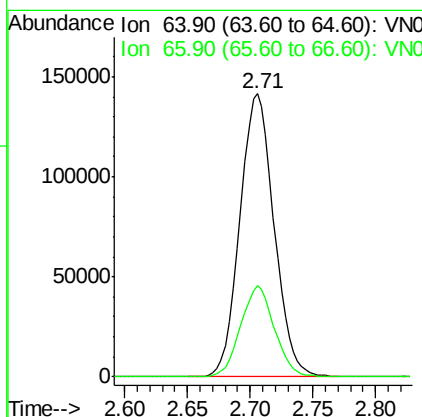
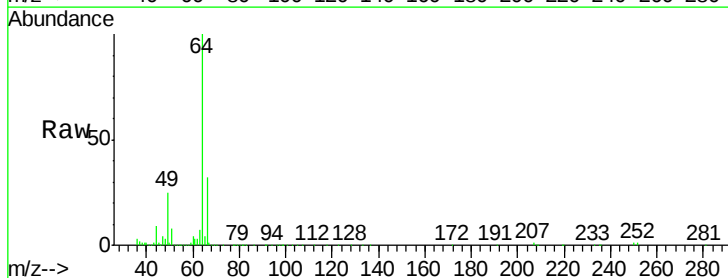
Acq: 20 Jun 2018 3:12

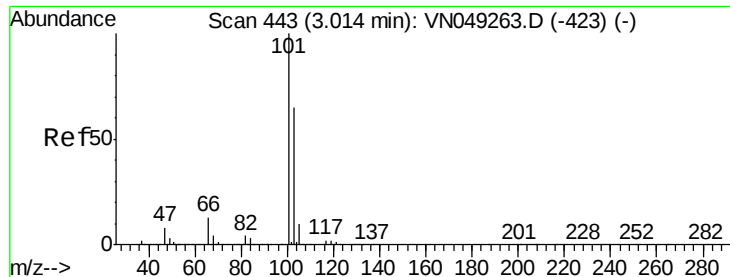
Tgt Ion: 64 Resp: 267687

Ion Ratio Lower Upper

64 100

66 32.1 25.6 38.4





#7

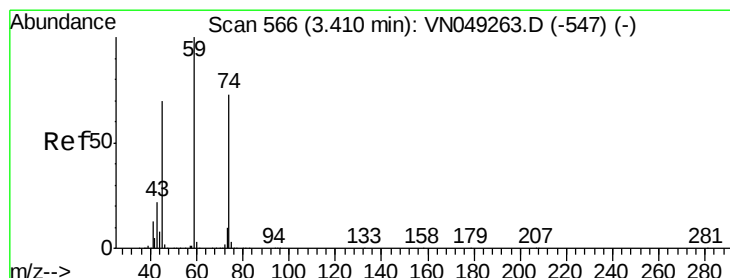
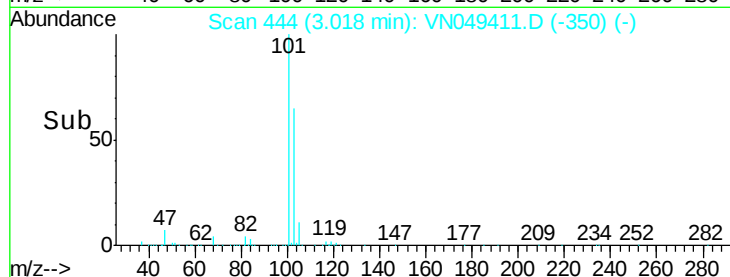
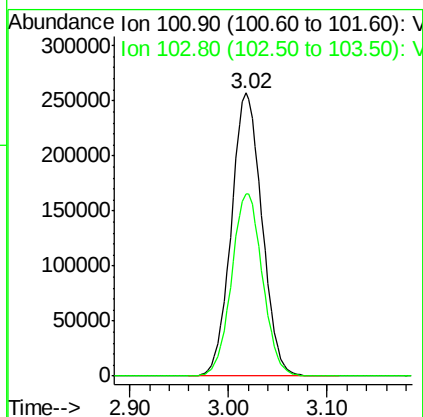
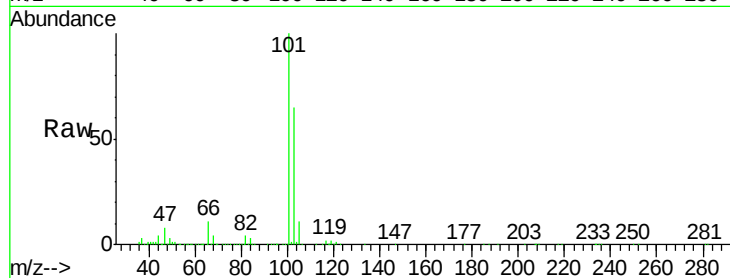
Trichlorofluoromethane  
Concen: 19.774 ug/l  
RT: 3.02 min Scan# 444  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 101     | 100  |       | 555391 |       |       |
| 103     | 64.6 | 51.7  | 77.5   |       |       |

Manual Integrations  
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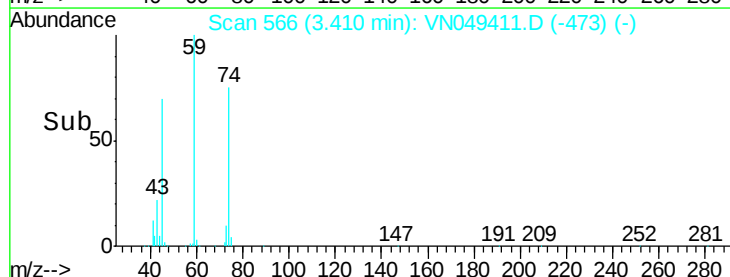
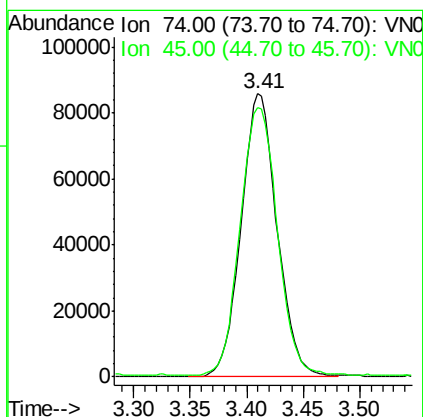
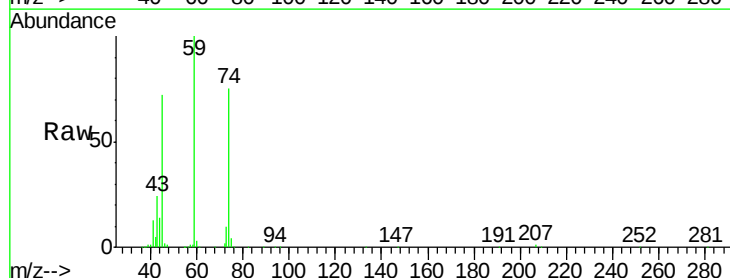
MMDadoda  
6/20/2018 4:54:03 PM

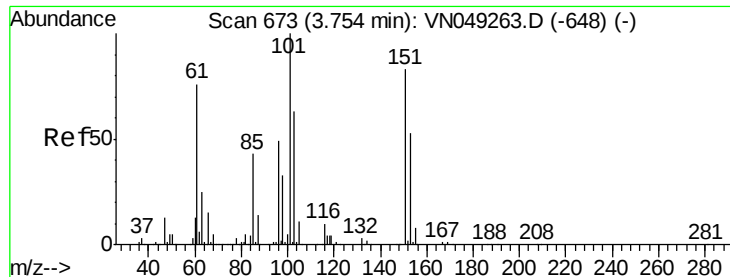


#8

Diethyl Ether  
Concen: 19.299 ug/l  
RT: 3.41 min Scan# 566  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 74      | 100  |       | 189237 |       |       |
| 45      | 98.3 | 51.9  | 155.8  |       |       |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.341 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

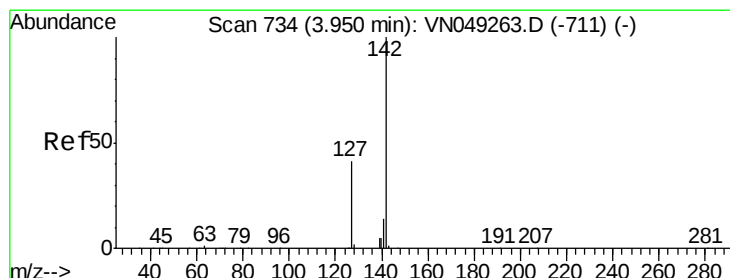
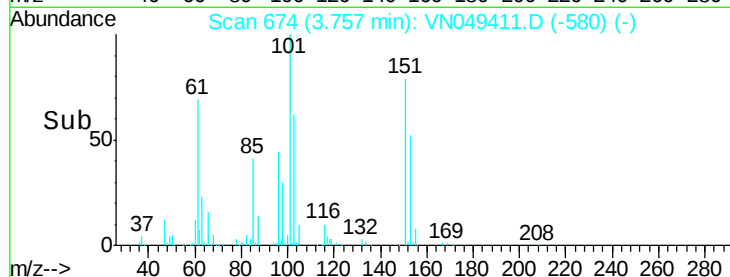
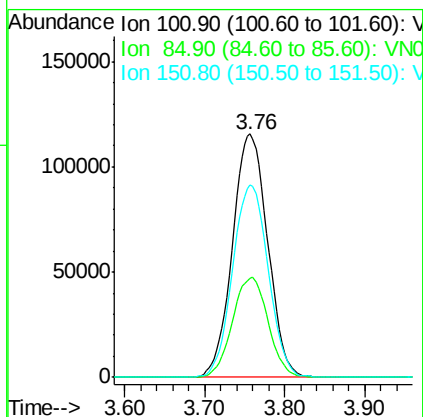
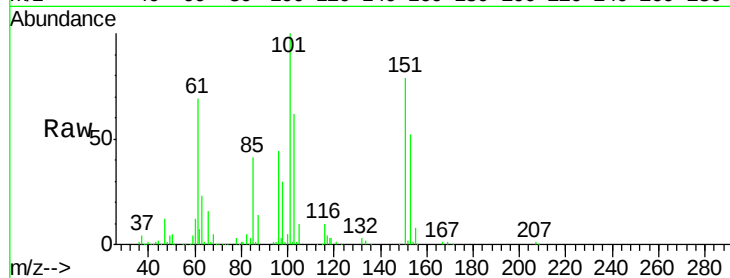
ClientSampleId :

VN0619WBS02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 344538 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 41.6  | 37.6  | 56.4   |
| 151       | 80.2  | 61.1  | 91.7   |

Manual Integrations  
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MMDadoda  
6/20/2018 4:54:03 PM



#10

Methyl Iodide

Concen: 19.476 ug/l

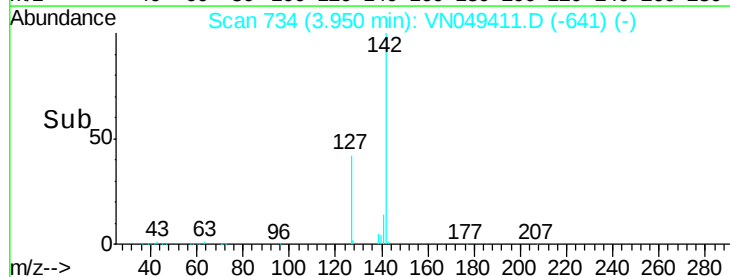
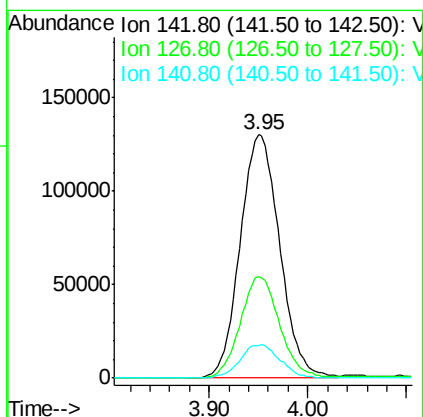
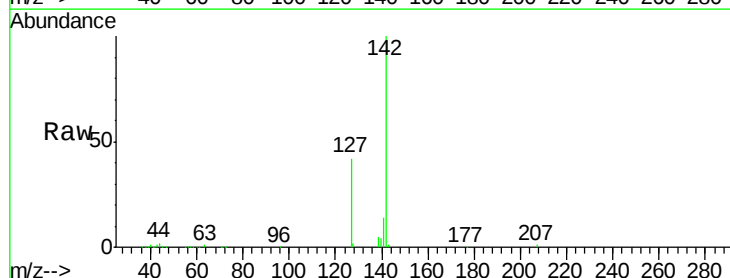
RT: 3.95 min Scan# 734

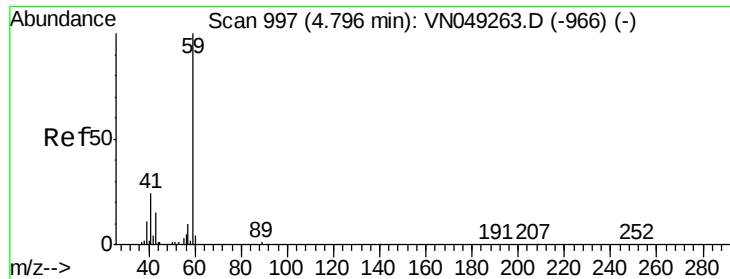
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 361180 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 41.9  | 38.2  | 57.4   |
| 141       | 14.1  | 11.9  | 17.9   |





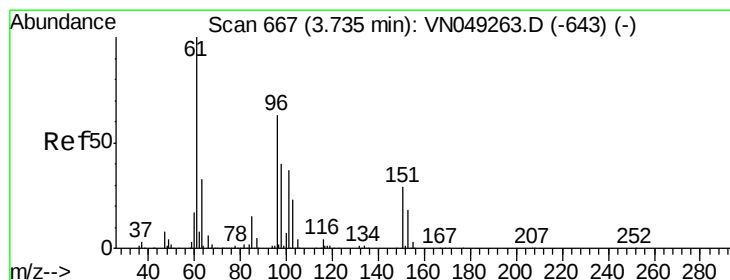
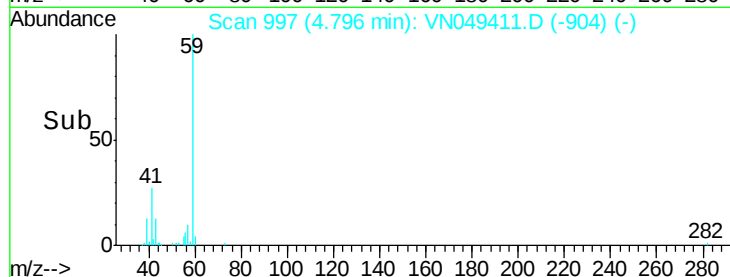
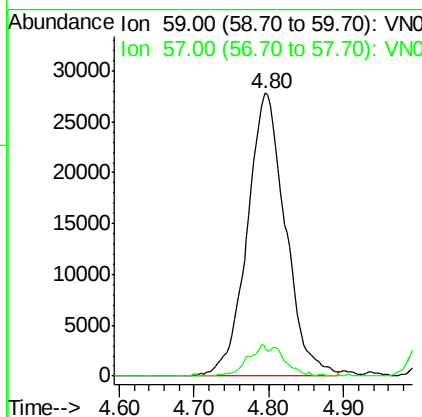
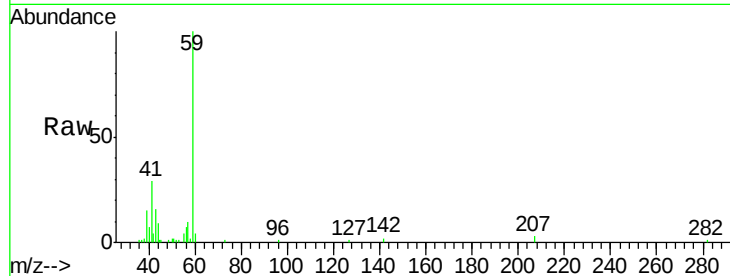
#11  
Tert butyl alcohol  
Concen: 89.137 ug/l  
RT: 4.80 min Scan# 997  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 5.9   | 9.0   | 13.6# |

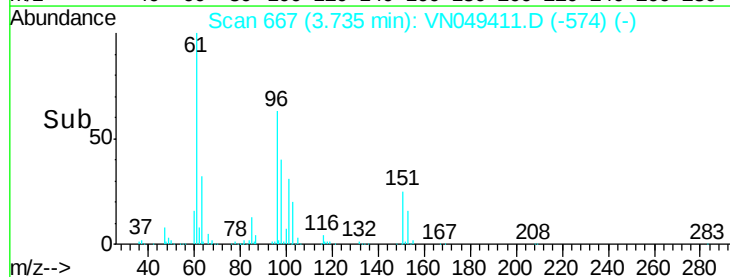
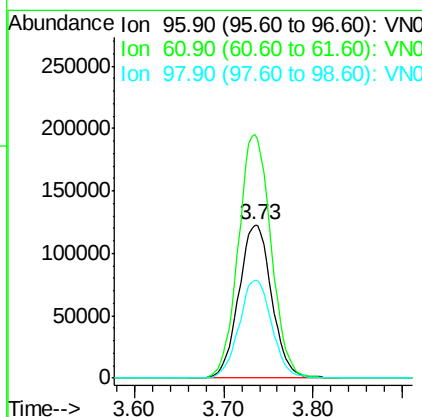
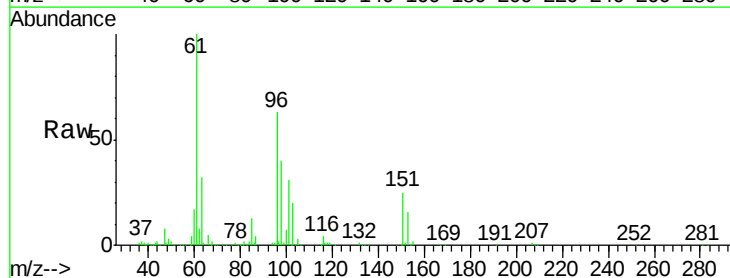
Manual Integrations  
APPROVED

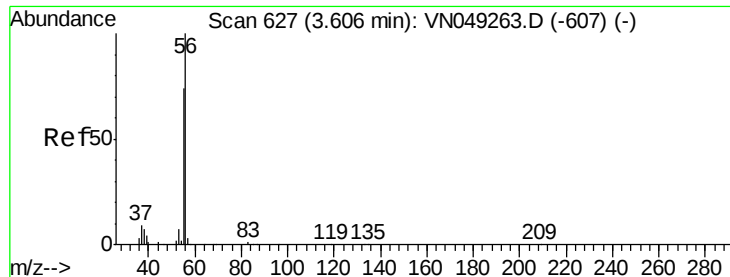
MMDadoda  
6/20/2018 4:54:03 PM



#12  
1,1-Dichloroethene  
Concen: 19.301 ug/l  
RT: 3.73 min Scan# 667  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 158.9 | 141.0 | 211.4 |
| 98      | 63.7  | 50.4  | 75.6  |





#13

Acrolein

Concen: 134.836 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampled :

VN0619WBS02

Tot Ion: 56 Resp: 156887

Ion Ratio Lower Upper

56 100

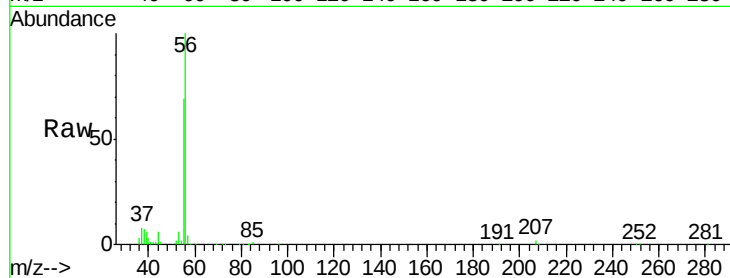
55 68.1 57.1 85.7

Manual Integrations

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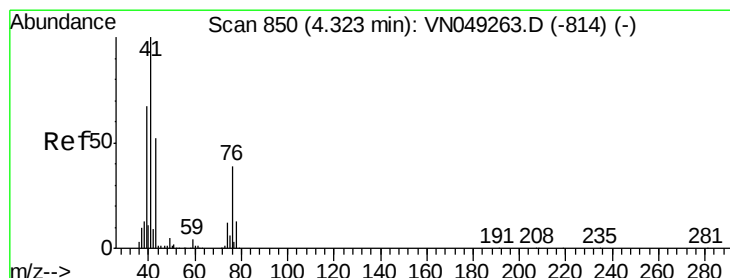
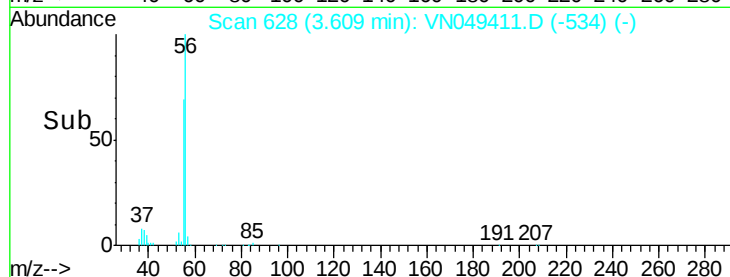
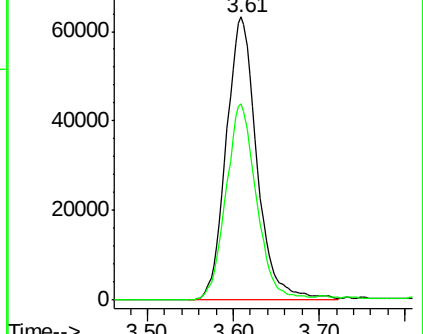
MMDadoda

6/20/2018 4:54:03 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.332 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

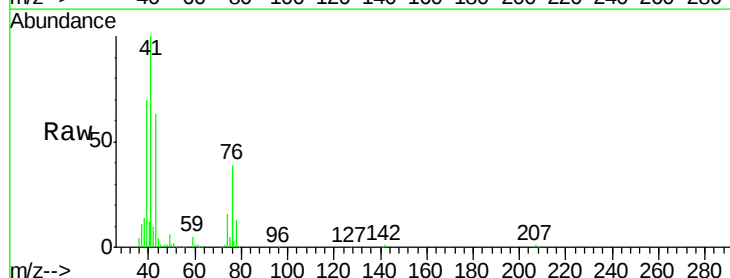
Tgt Ion: 41 Resp: 473037

Ion Ratio Lower Upper

41 100

39 66.1 62.5 93.7

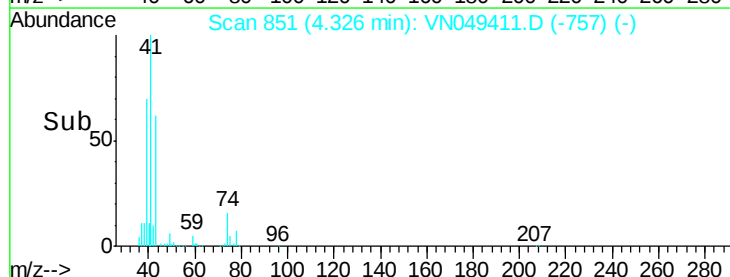
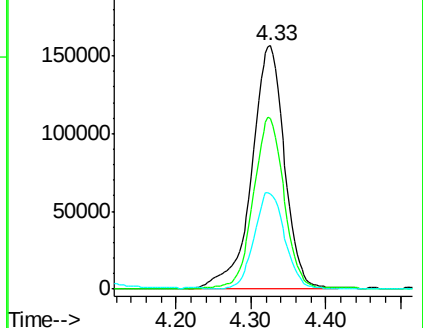
76 36.7 27.1 40.7

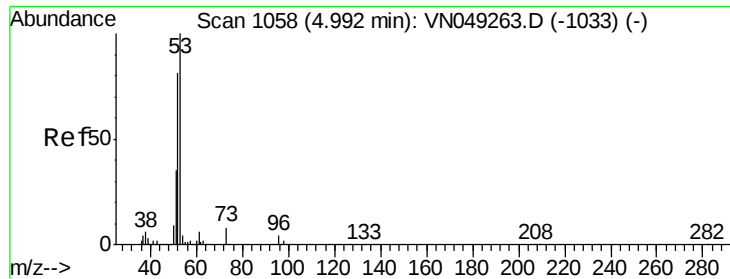


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





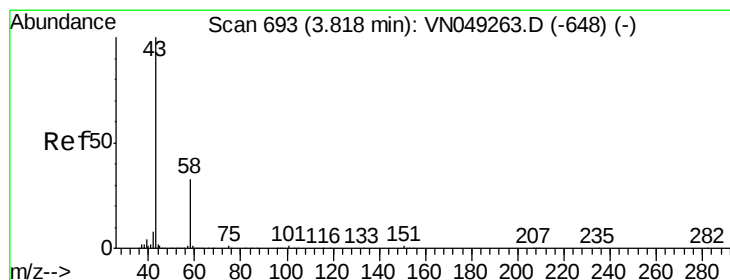
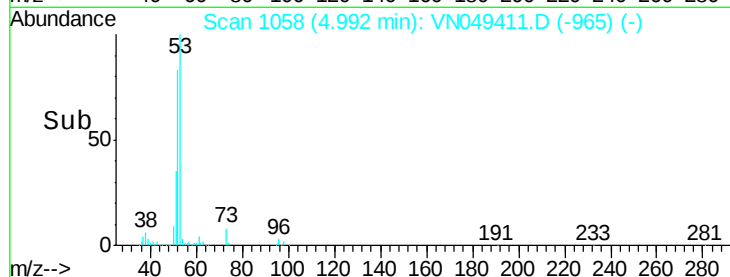
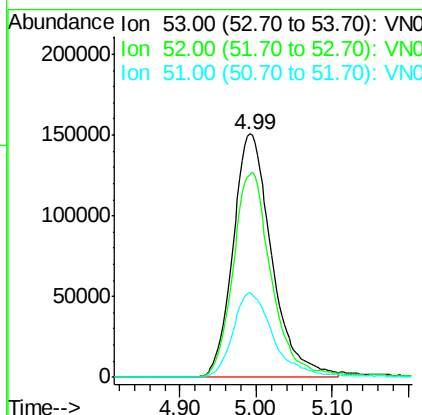
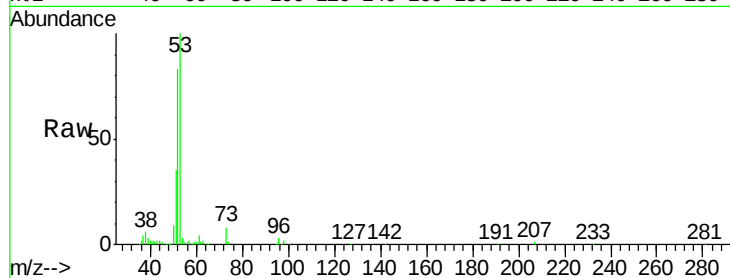
#15  
 Acrylonitrile  
 Concen: 96.204 ug/l  
 RT: 4.99 min Scan# 1058  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 533740 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 83.1  | 66.6  | 100.0  |
| 51       | 36.1  | 29.8  | 44.8   |

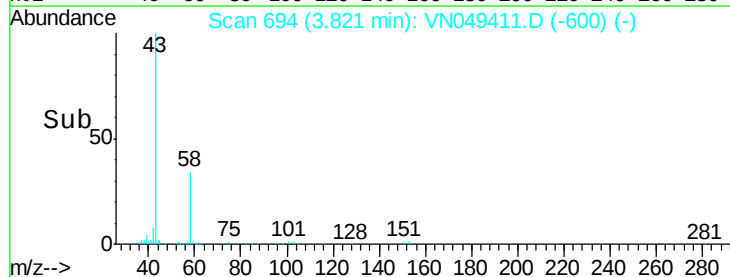
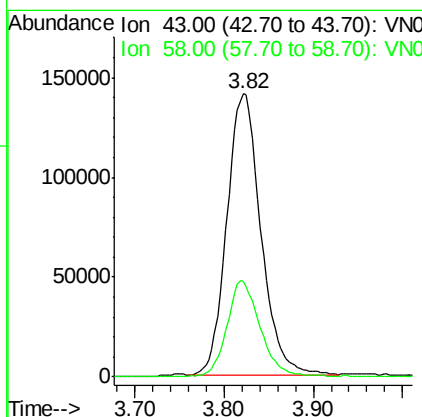
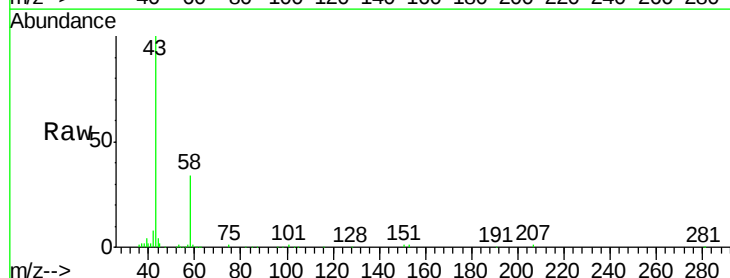
Manual Integrations  
 APPROVED

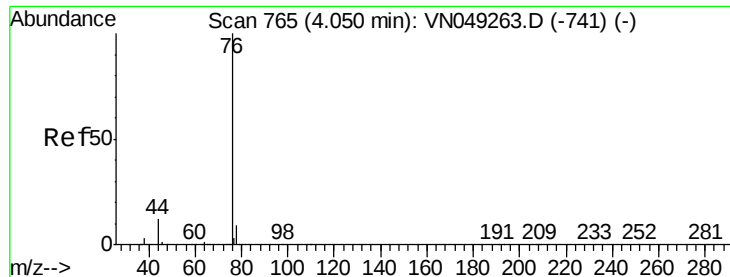
MMDadoda  
 6/20/2018 4:54:03 PM



#16  
 Acetone  
 Concen: 80.922 ug/l  
 RT: 3.82 min Scan# 694  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 371428 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 33.7  | 22.4  | 33.6#  |





#17

Carbon Disulfide

Concen: 18.357 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion: 76 Resp: 940303

Ion Ratio Lower Upper

76 100

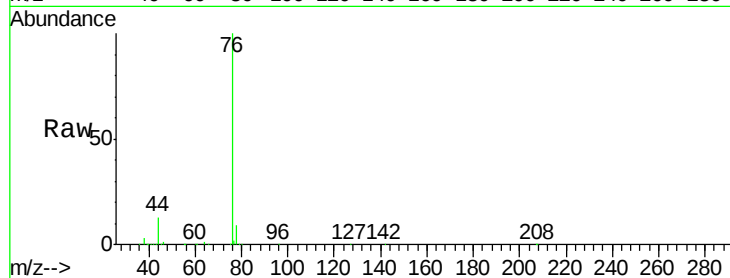
78 8.8 7.4 11.0

Manual Integrations

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MMDadoda

6/20/2018 4:54:03 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

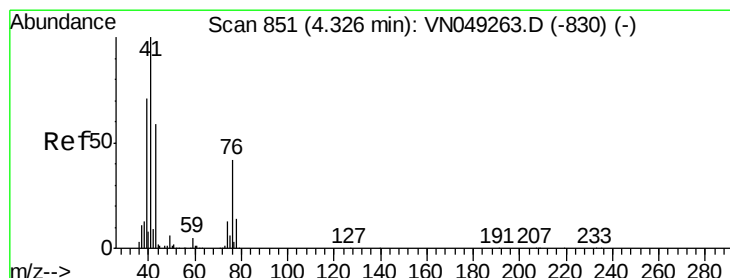
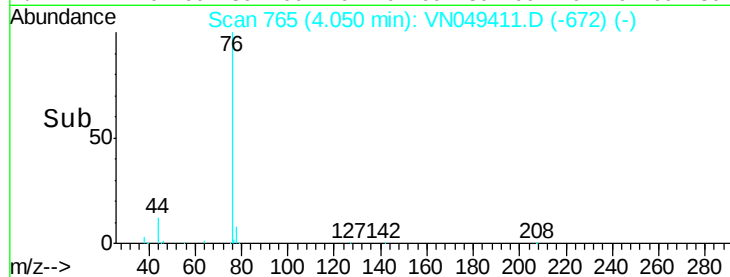
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 20.835 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049411.D

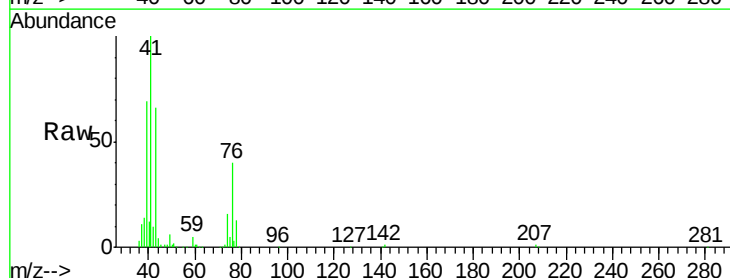
Acq: 20 Jun 2018 3:12

Tgt Ion: 43 Resp: 291590

Ion Ratio Lower Upper

43 100

74 25.0 17.4 26.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

100000

80000

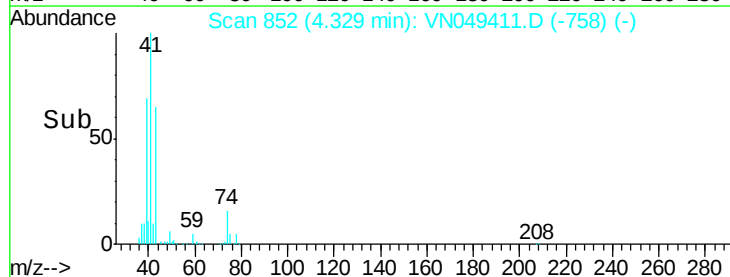
60000

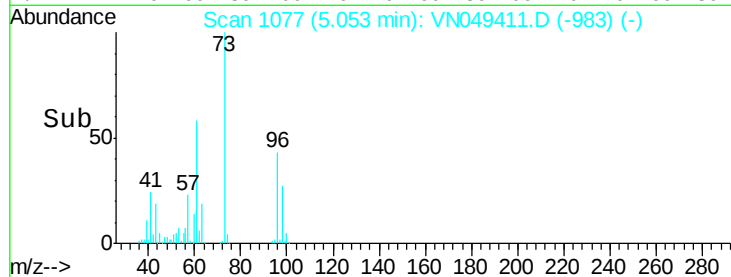
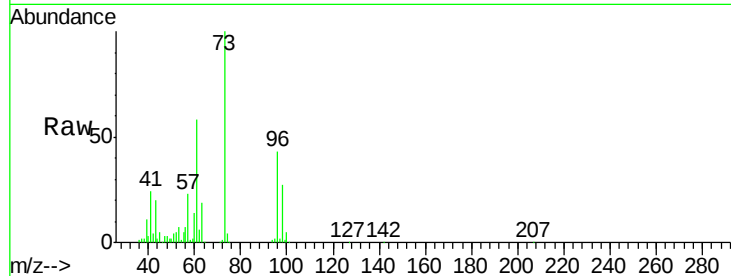
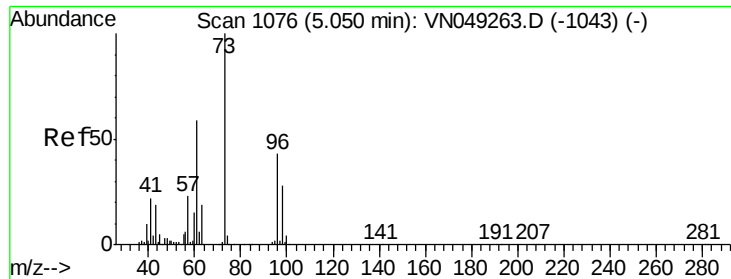
40000

20000

0

Time-->





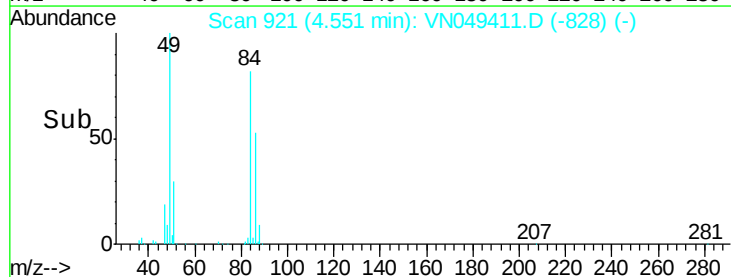
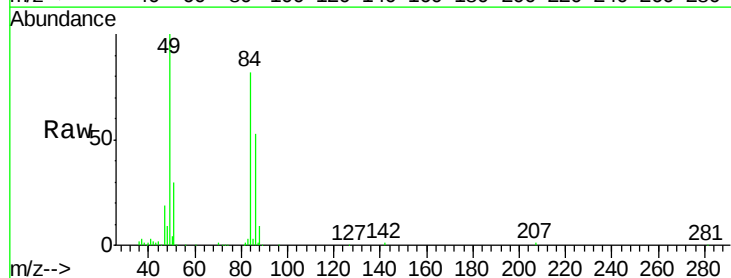
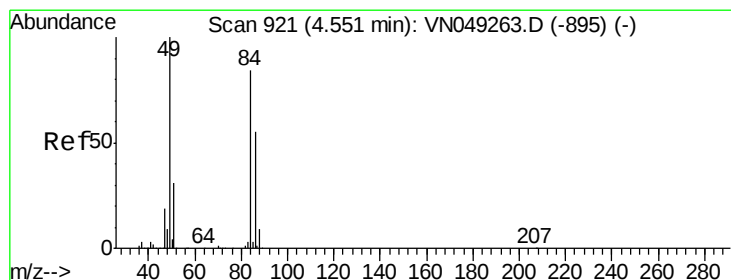
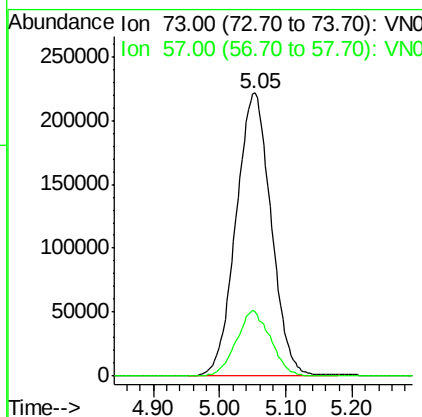
#19  
Methvl tert-butvl Ether  
Concen: 19.545 ug/l  
RT: 5.05 min Scan# 1077  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Tot Ion: 73 Resp: 814381  
Ion Ratio Lower Upper  
73 100  
57 22.7 18.2 27.4

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

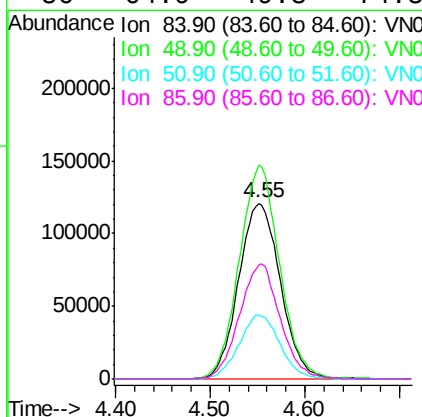
Manual Integrations  
APPROVED

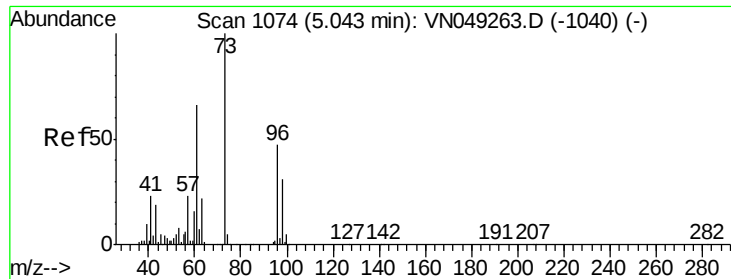
MMDadoda  
6/20/2018 4:54:03 PM



#20  
Methylene Chloride  
Concen: 19.321 ug/l  
RT: 4.55 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Tgt Ion: 84 Resp: 370384  
Ion Ratio Lower Upper  
84 100  
49 121.6 106.9 160.3  
51 36.8 32.7 49.1  
86 64.9 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 19.246 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

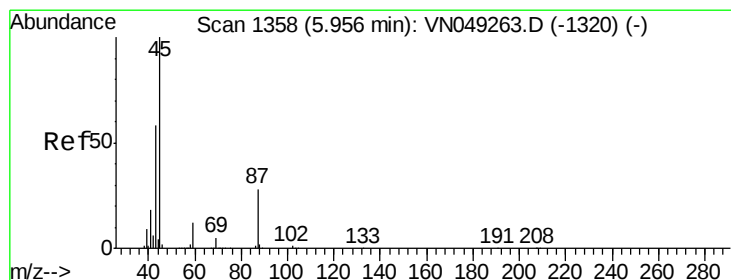
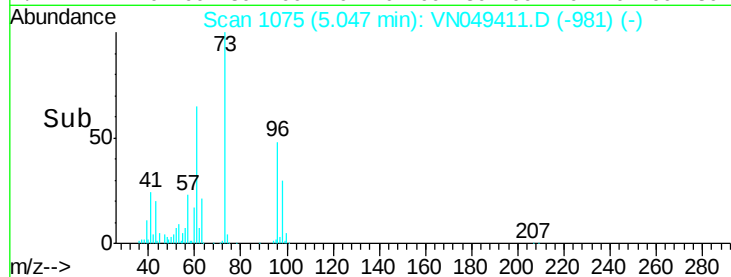
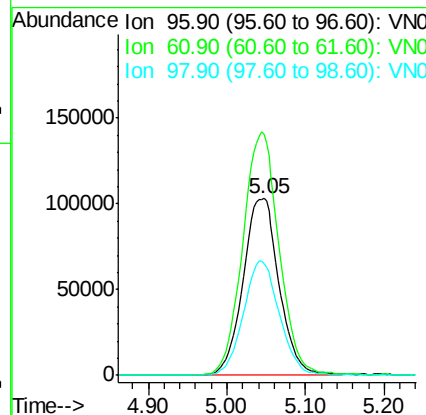
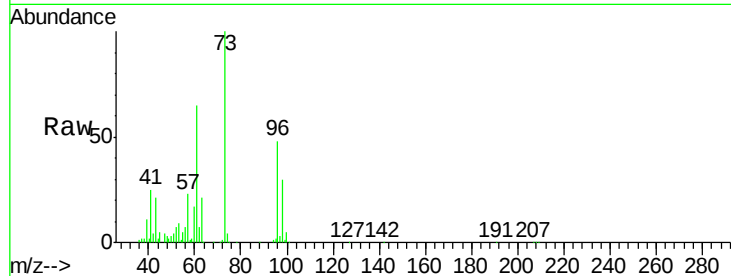
ClientSampleId :

VN0619WBS02

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 332987 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 136.3 | 121.3 | 181.9  |
| 98       | 63.4  | 52.0  | 78.0   |

Manual Integrations  
APPROVED

MMDadoda  
6/20/2018 4:54:03 PM



#22

Diisopropyl ether

Concen: 20.237 ug/l

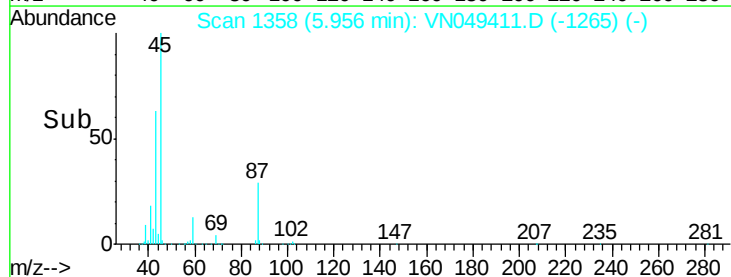
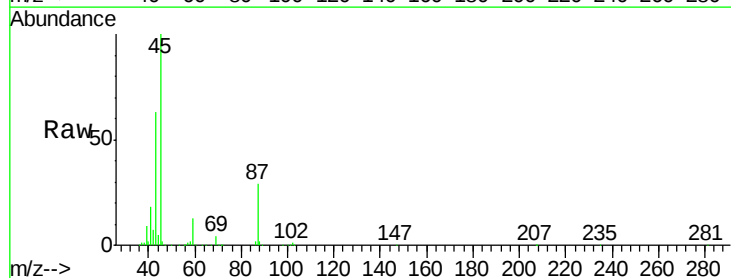
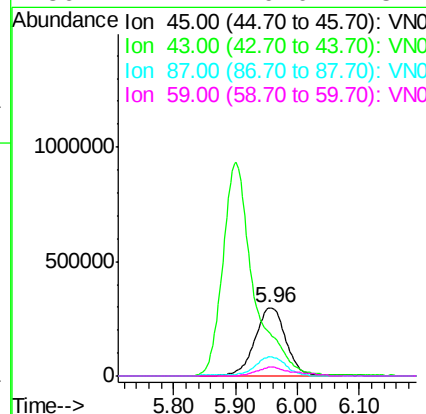
RT: 5.96 min Scan# 1358

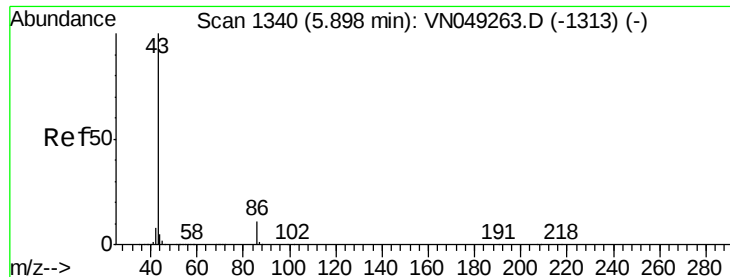
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 45    | Resp: | 1042817 |
| Ion      | Ratio | Lower | Upper   |
| 45       | 100   |       |         |
| 43       | 62.4  | 48.6  | 72.8    |
| 87       | 28.2  | 20.2  | 30.2    |
| 59       | 12.4  | 9.0   | 13.4    |





#23

Vinyl Acetate

Concen: 96.416 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion: 43 Resp: 3238823

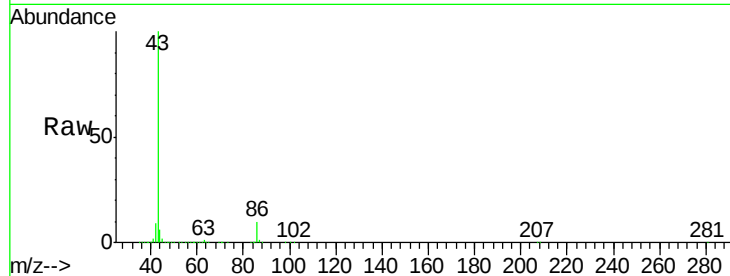
Ion Ratio Lower Upper

43 100

86 10.4 7.2 10.8

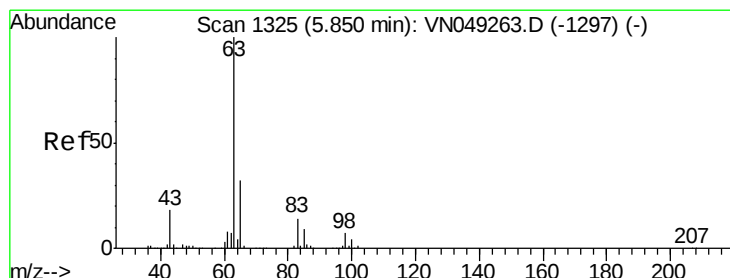
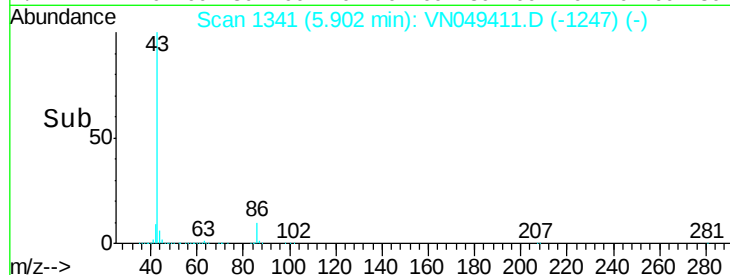
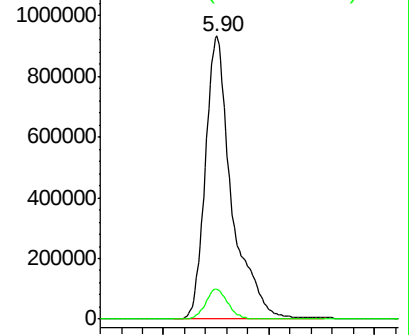
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.354 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

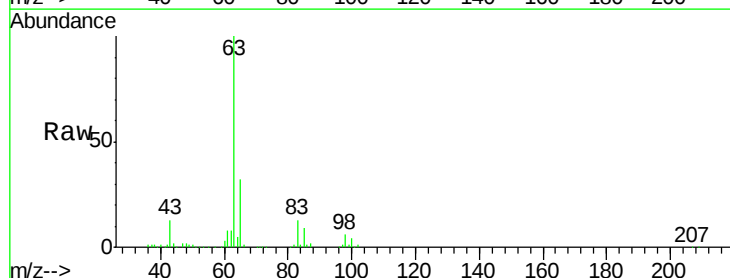
Tgt Ion: 63 Resp: 638301

Ion Ratio Lower Upper

63 100

98 6.5 2.9 8.8

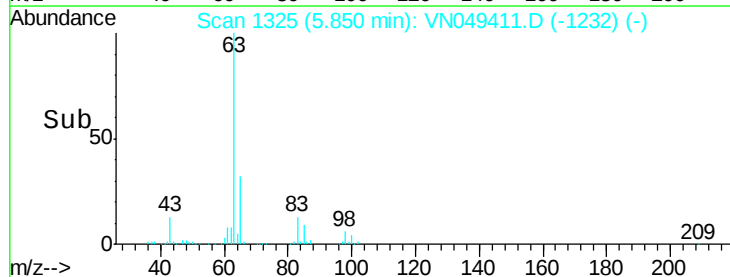
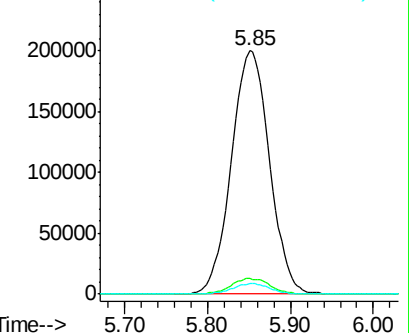
100 4.2 2.1 6.3

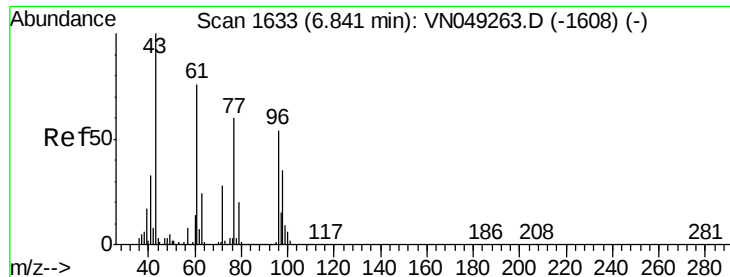


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 89.664 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion: 43 Resp: 552616

Ion Ratio Lower Upper

43 100

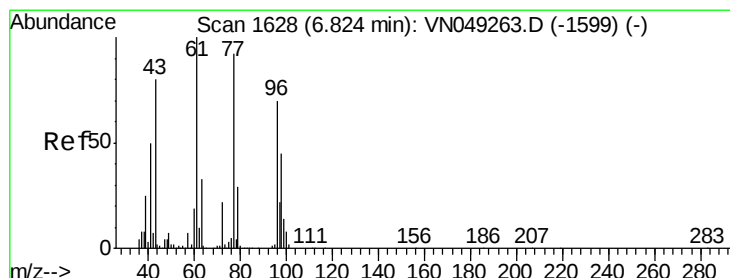
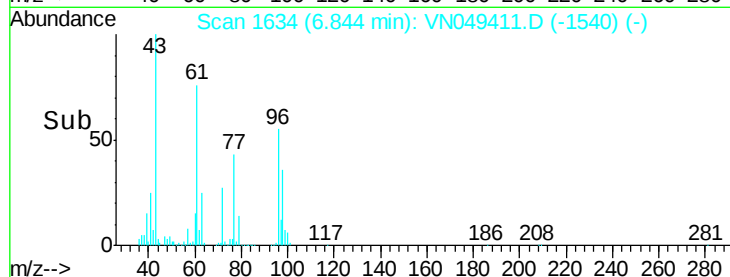
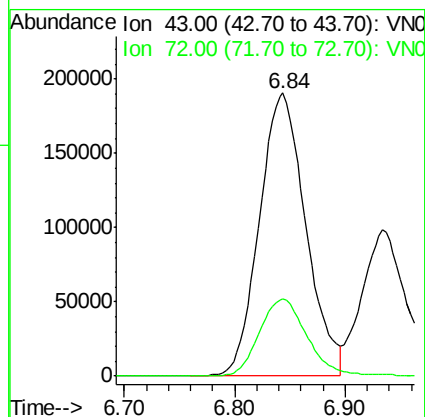
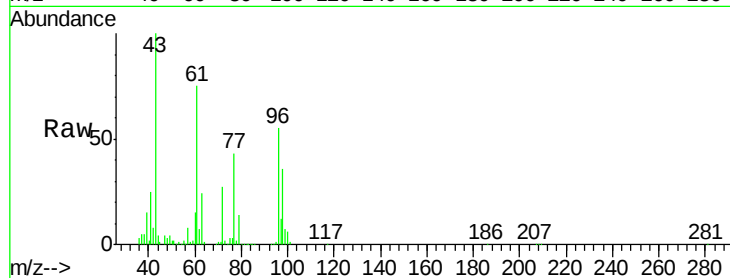
72 27.4 20.2 30.2

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#26

2,2-Dichloropropane

Concen: 13.627 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VN049411.D

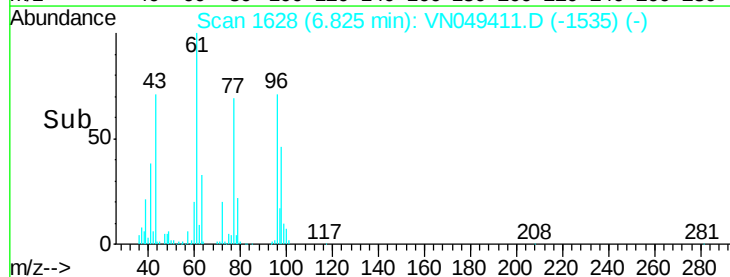
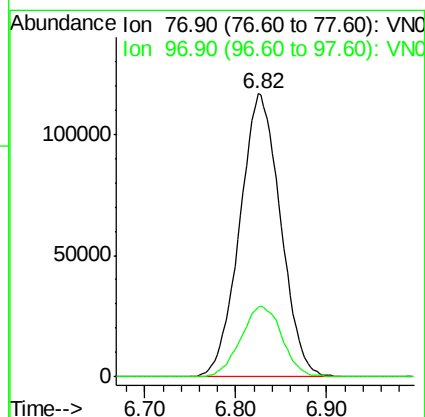
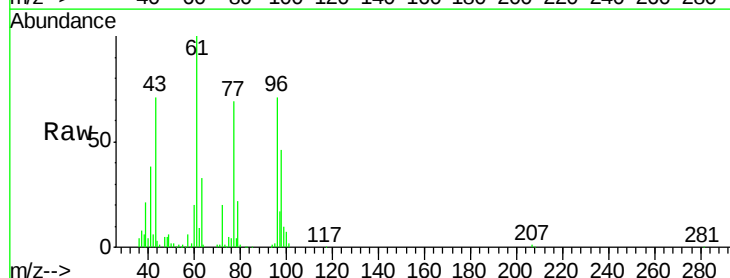
Acq: 20 Jun 2018 3:12

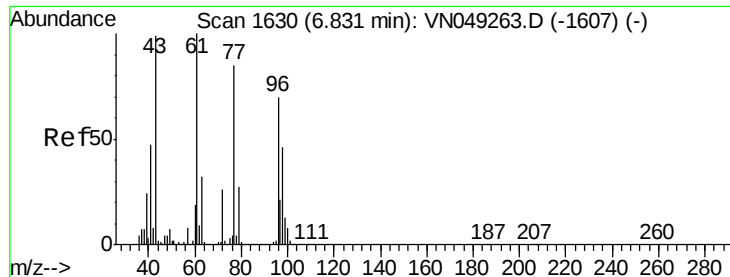
Tgt Ion: 77 Resp: 362964

Ion Ratio Lower Upper

77 100

97 25.3 11.0 33.0





#27

cis-1,2-Dichloroethene

Concen: 19.394 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

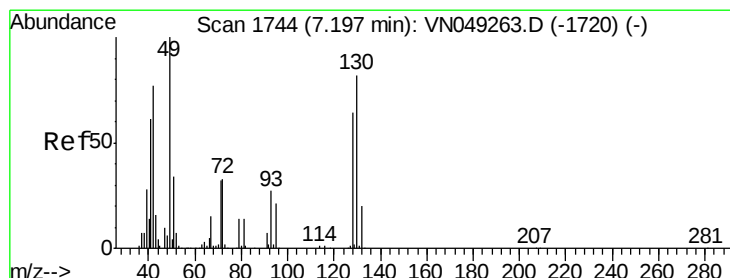
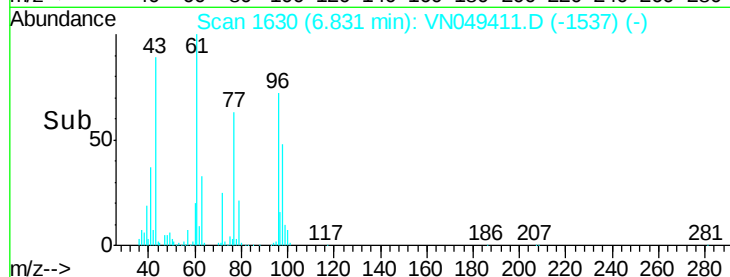
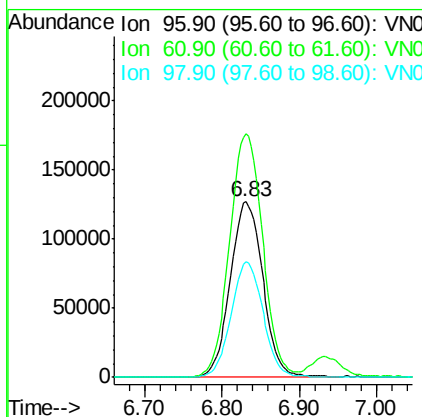
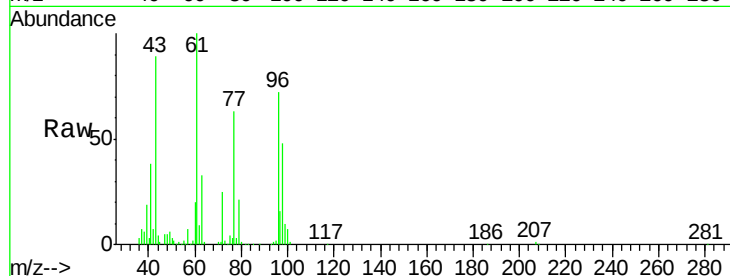
ClientSampleId :

VN0619WBS02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 96    | Resp: | 373044 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 140.3 | 0.0   | 316.4  |
| 98        | 64.3  | 0.0   | 128.4  |

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#28

Bromochloromethane

Concen: 18.735 ug/l

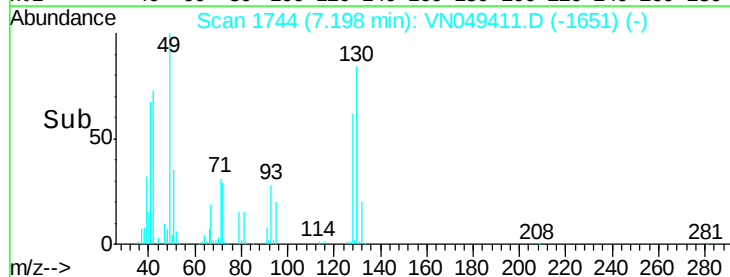
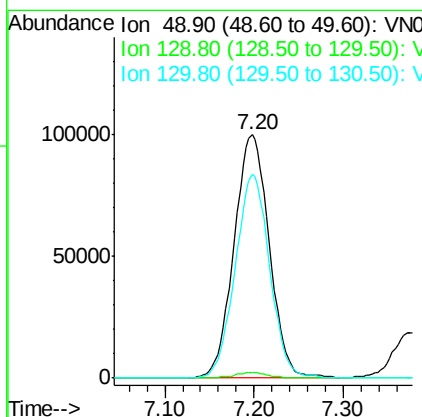
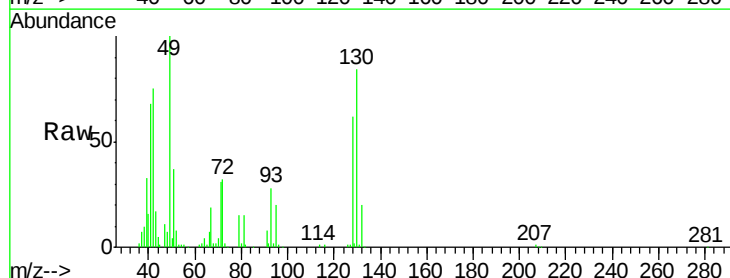
RT: 7.20 min Scan# 1744

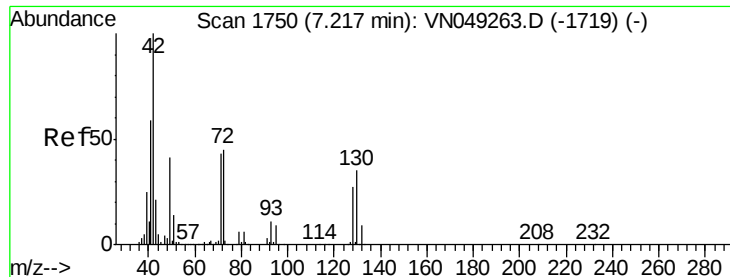
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 49    | Resp: | 273937 |
| Ion Ratio | Lower | Upper |        |
| 49        | 100   |       |        |
| 129       | 2.1   | 0.0   | 3.8    |
| 130       | 82.1  | 54.9  | 82.3   |





#29

Tetrahydrofuran

Concen: 96.134 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

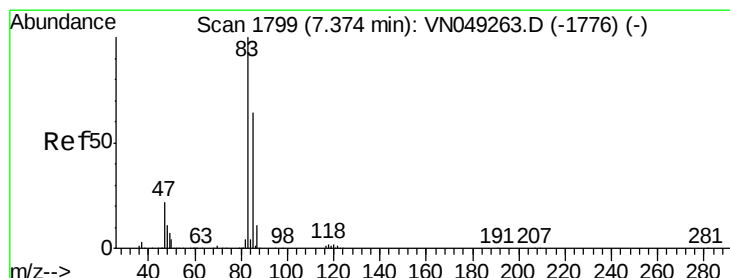
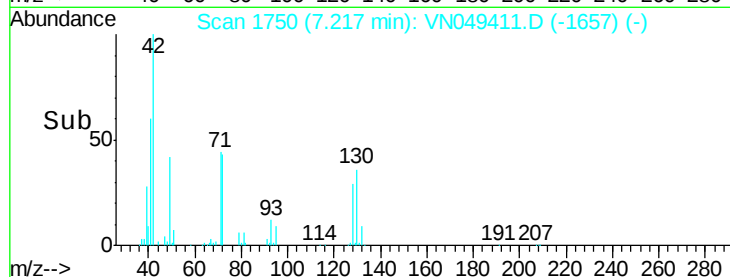
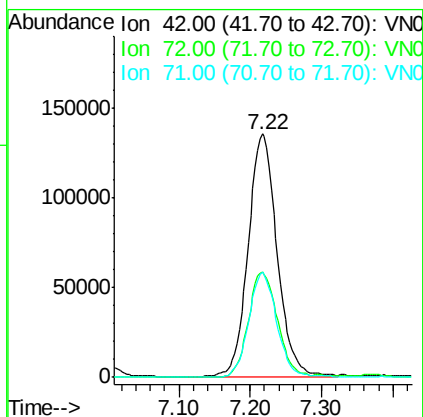
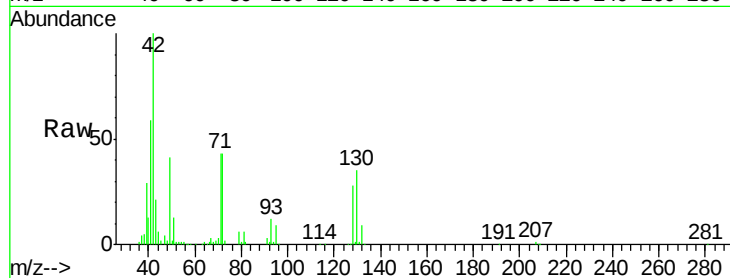
ClientSampleId :

VN0619WBS02

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 42   | Resp: | 381395 |
| Ion Ratio |      | Lower | Upper  |
| 42        | 100  |       |        |
| 72        | 43.6 | 32.2  | 48.4   |
| 71        | 41.7 | 30.5  | 45.7   |

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#30

Chloroform

Concen: 19.685 ug/l

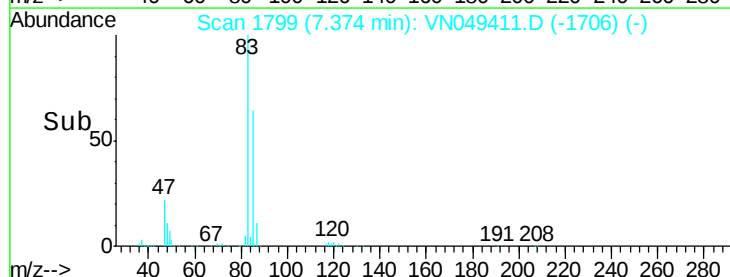
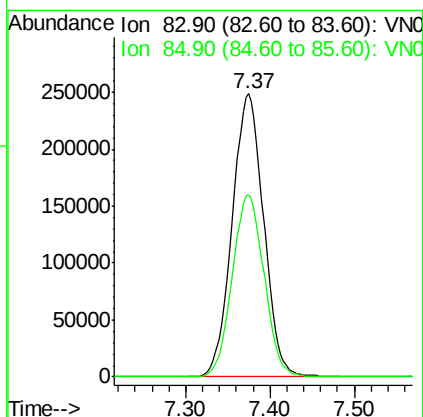
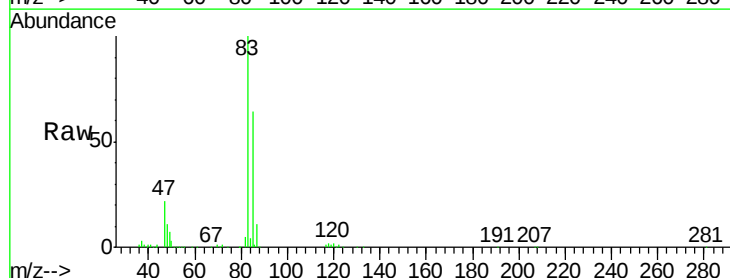
RT: 7.37 min Scan# 1799

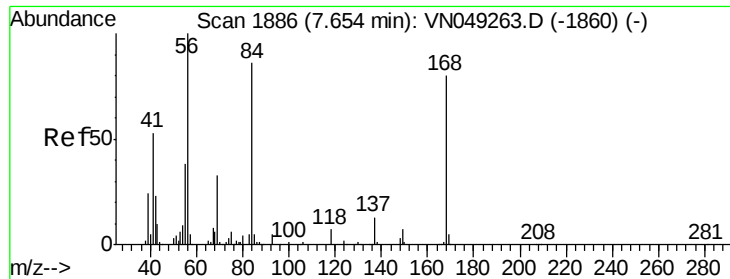
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 83   | Resp: | 646119 |
| Ion Ratio |      | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 64.4 | 51.7  | 77.5   |





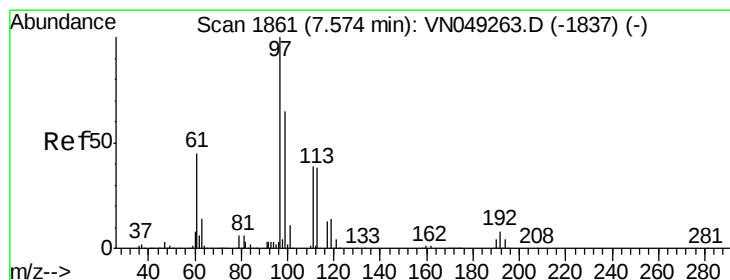
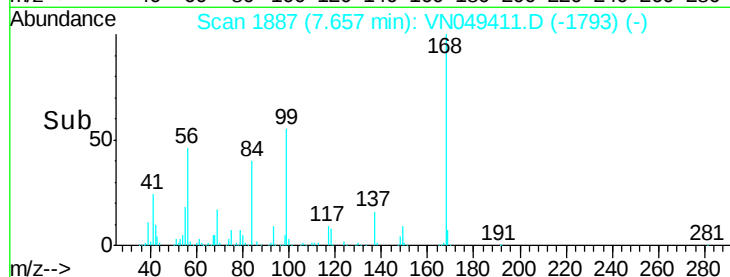
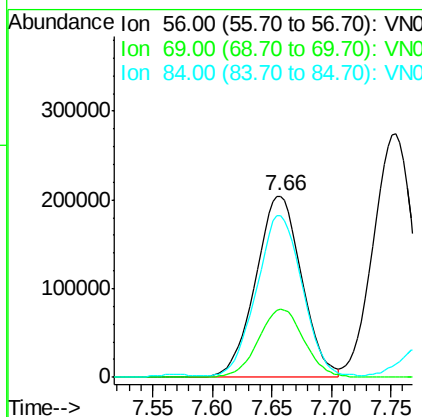
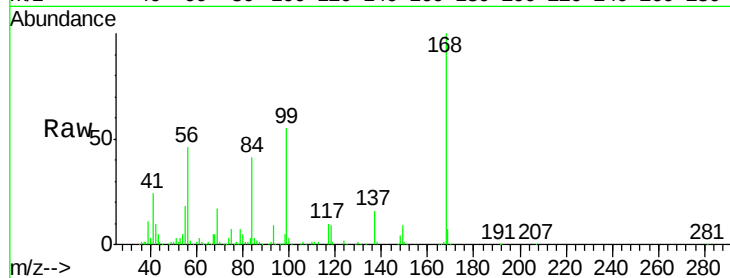
#31  
Cyclohexane  
Concen: 19.451 ug/l  
RT: 7.66 min Scan# 1887  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 37.4  | 25.0  | 37.4  |
| 84      | 88.3  | 64.6  | 96.8  |

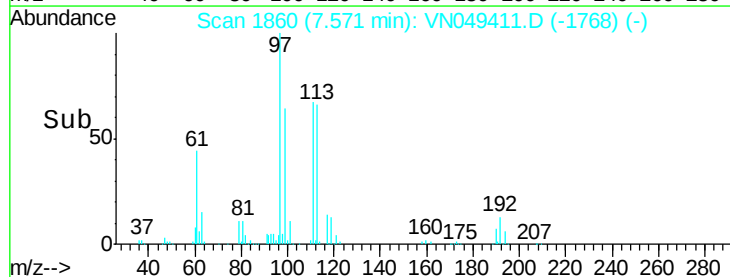
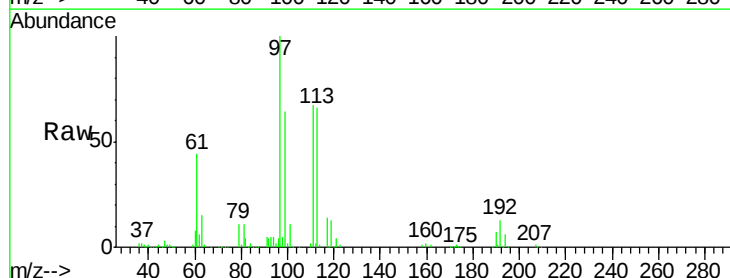
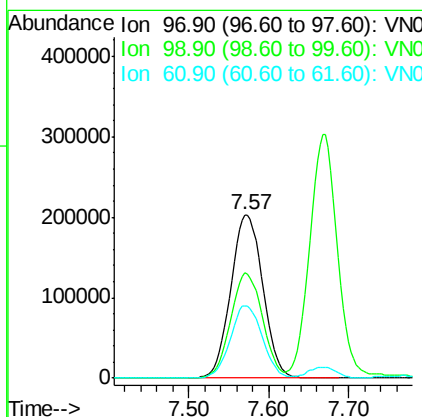
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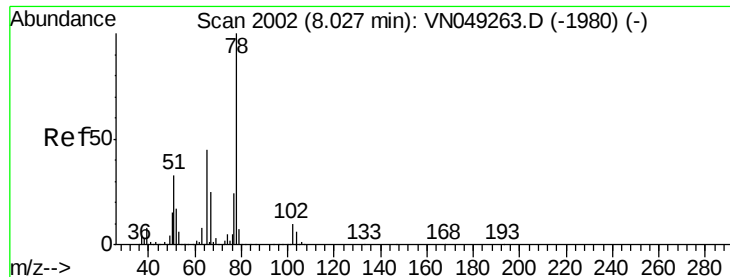
MMDadoda  
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#32  
1,1,1-Trichloroethane  
Concen: 19.747 ug/l  
RT: 7.57 min Scan# 1860  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 63.7  | 50.5  | 75.7  |
| 61      | 44.2  | 37.9  | 56.9  |





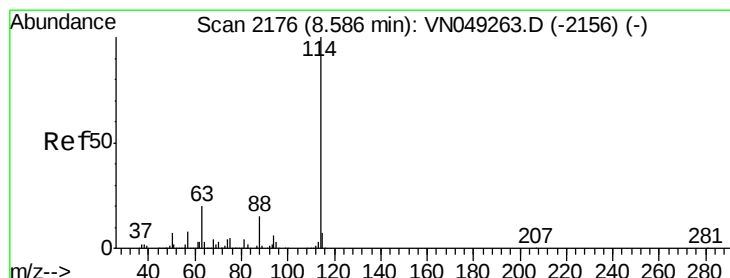
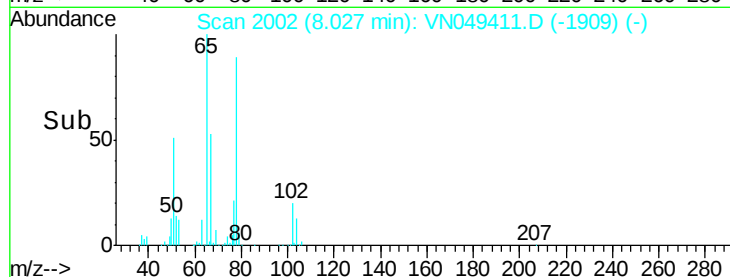
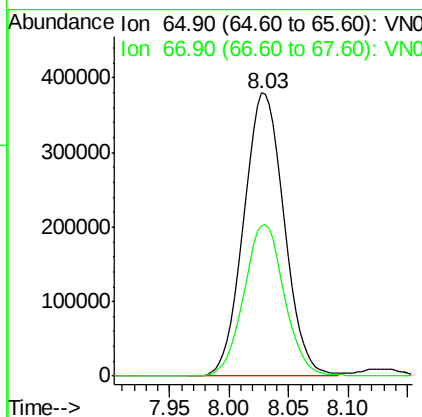
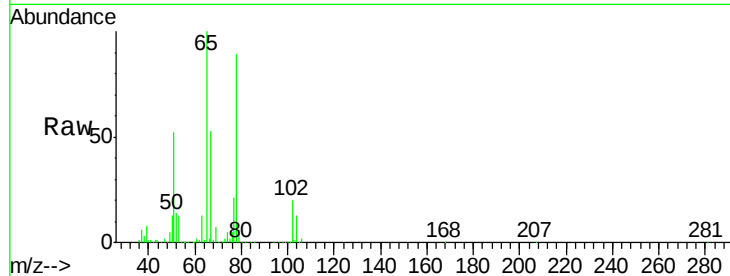
#33  
 1,2-Dichloroethane-d4  
 Concen: 47.418 ug/l  
 RT: 8.03 min Scan# 2002  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 65      | 100   |      |       |       |
| 67      | 53.6  | 0.0  | 103.8 |       |

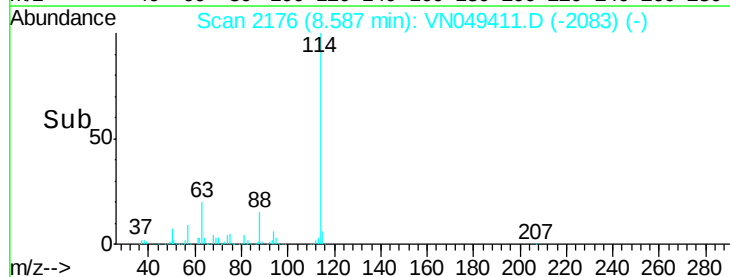
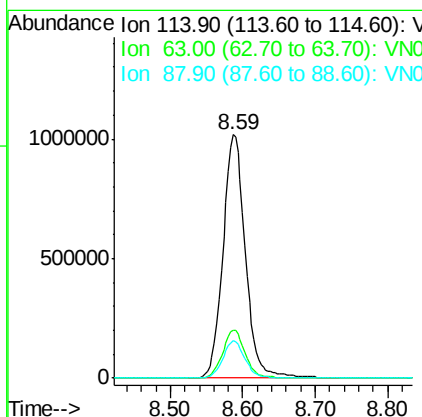
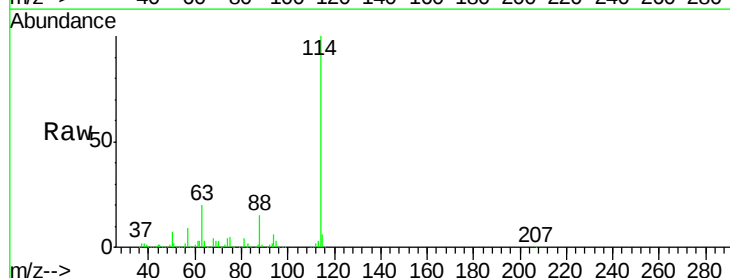
Manual Integrations  
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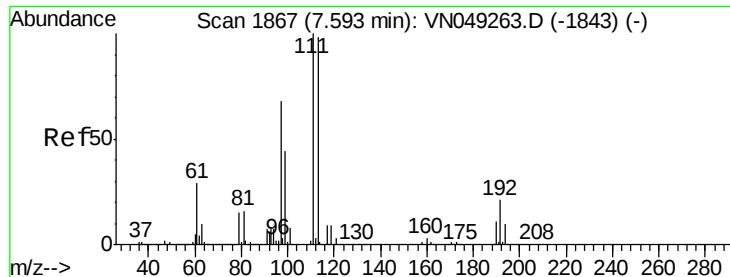
MMDadoda  
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 114     | 100   |      |       |       |
| 63      | 19.9  | 0.0  | 44.4  |       |
| 88      | 15.2  | 0.0  | 31.4  |       |





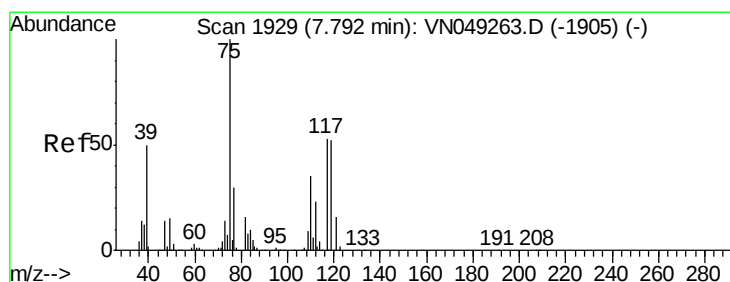
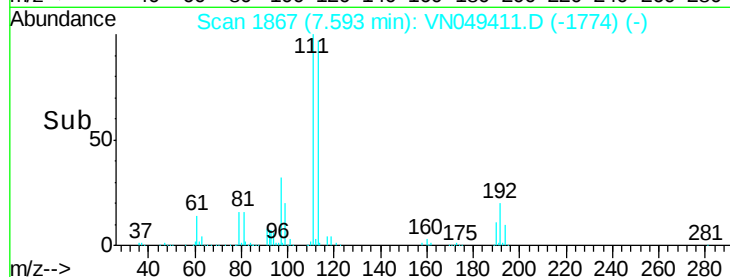
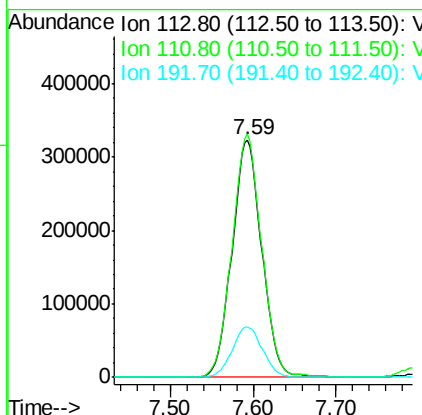
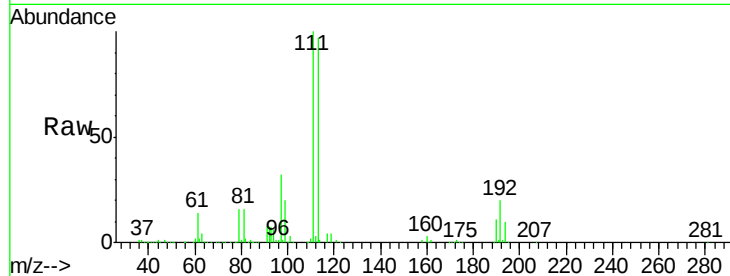
#35  
 Dibromofluoromethane  
 Concen: 45.721 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 807563 |       |       |
| 111     | 102.4 |        | 82.4  | 123.6 |
| 192     | 21.7  |        | 15.0  | 22.6  |

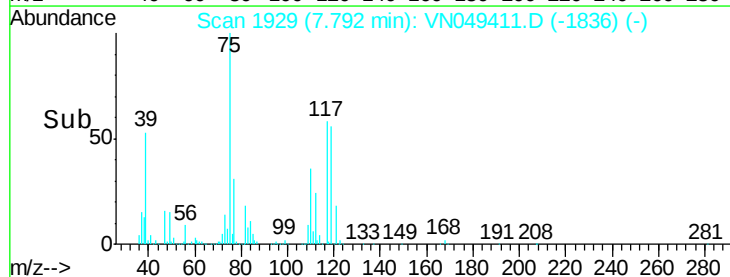
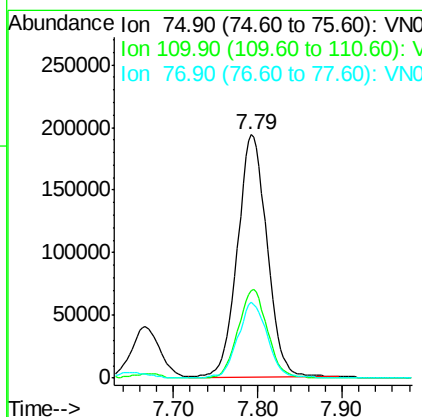
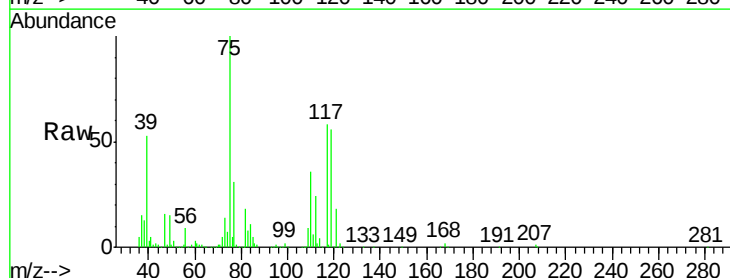
Manual Integrations  
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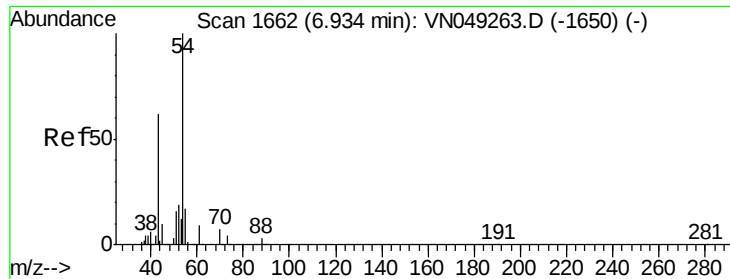
MMDadoda  
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#36  
 1,1-Dichloropropene  
 Concen: 18.923 ug/l  
 RT: 7.79 min Scan# 1929  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 473483 |       |       |
| 110     | 36.2  |        | 17.0  | 50.9  |
| 77      | 30.9  |        | 24.4  | 36.6  |





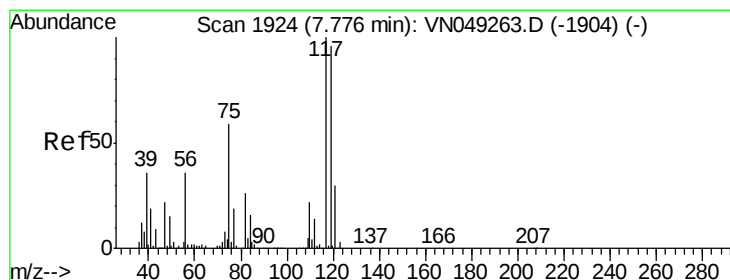
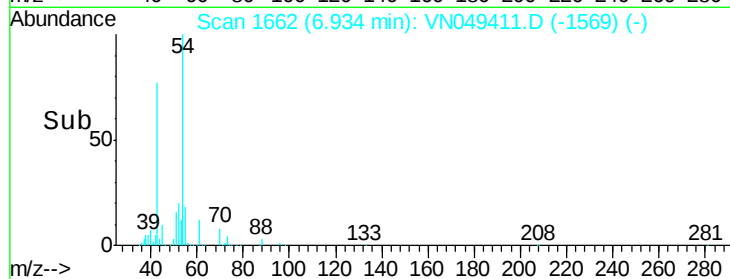
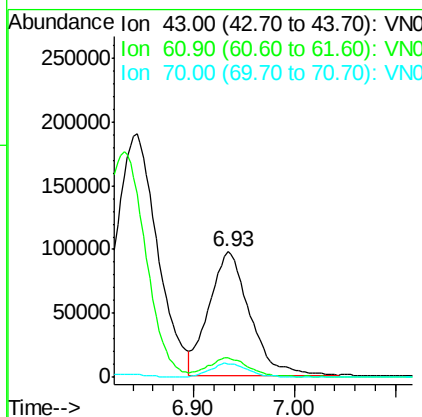
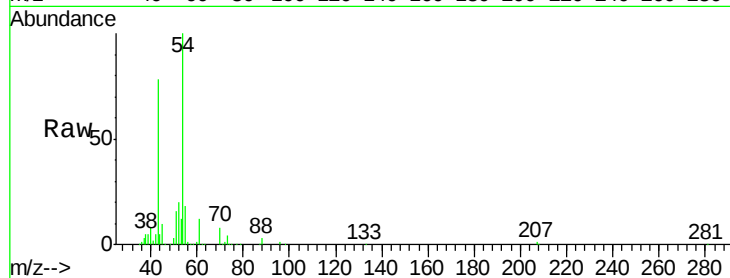
#37  
Ethyl Acetate  
Concen: 20.114 ug/l  
RT: 6.93 min Scan# 1662  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.3  | 11.0  | 16.4  |
| 70      | 10.1  | 7.2   | 10.8  |

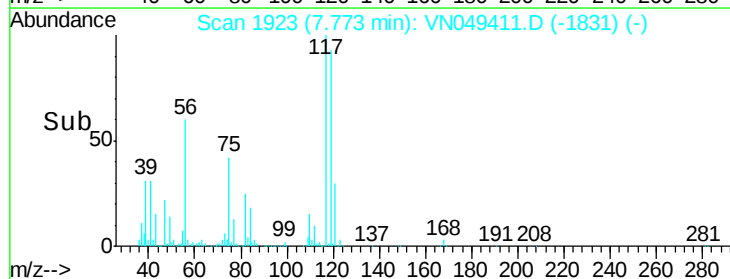
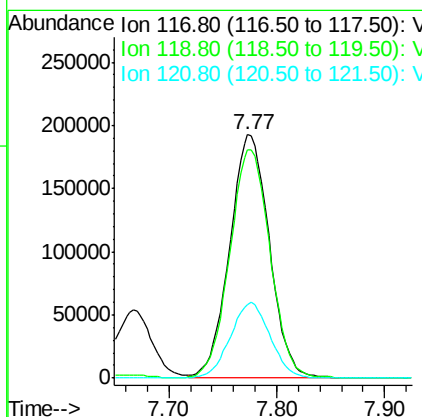
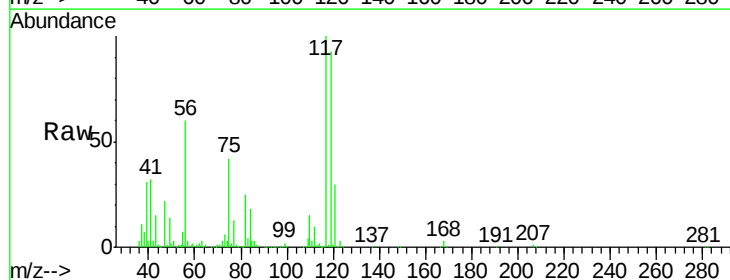
Manual Integrations  
APPROVED

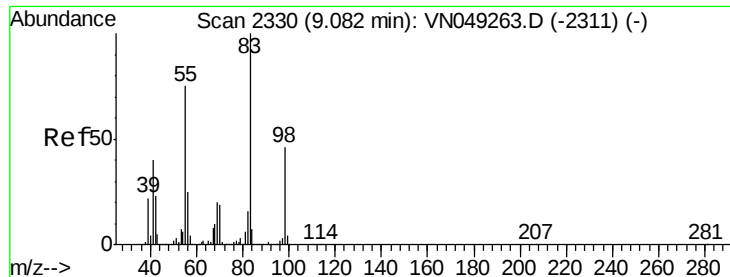
MMDadoda  
6/20/2018 4:54:03 PM



#38  
Carbon Tetrachloride  
Concen: 18.894 ug/l  
RT: 7.77 min Scan# 1923  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 93.5  | 75.6  | 113.4 |
| 121     | 30.3  | 24.7  | 37.1  |





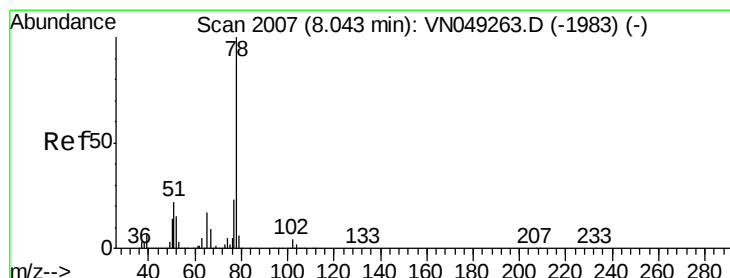
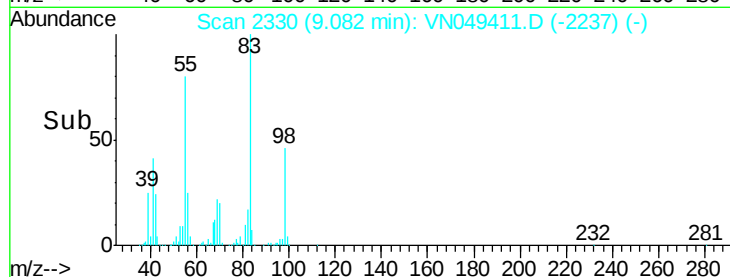
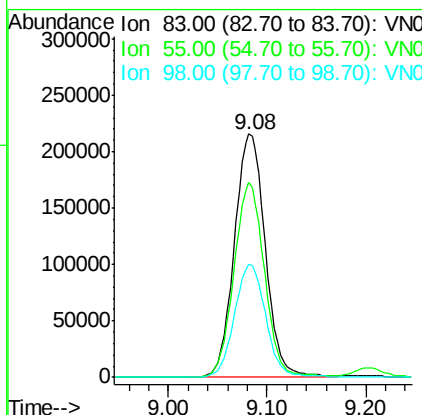
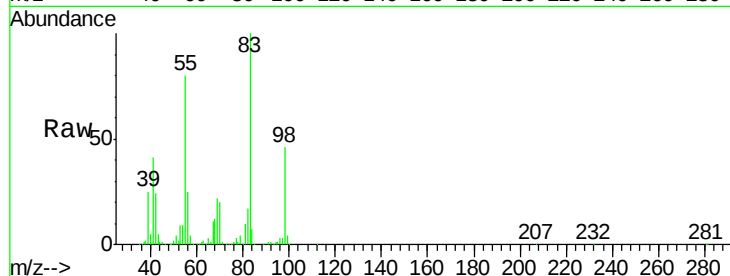
#39  
Methvlcvclohexane  
Concen: 17.493 ug/l  
RT: 9.08 min Scan# 2330  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 79.9  | 65.1  | 97.7  |
| 98      | 46.4  | 36.5  | 54.7  |

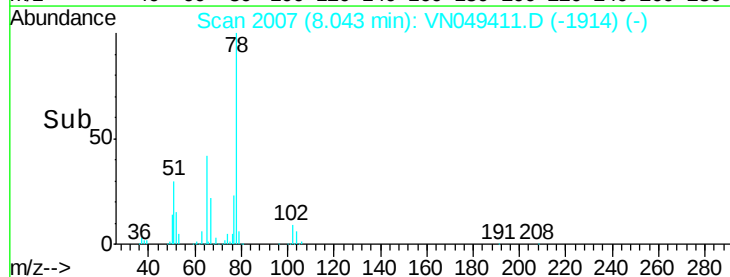
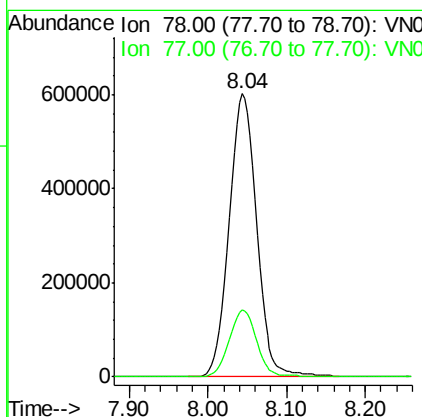
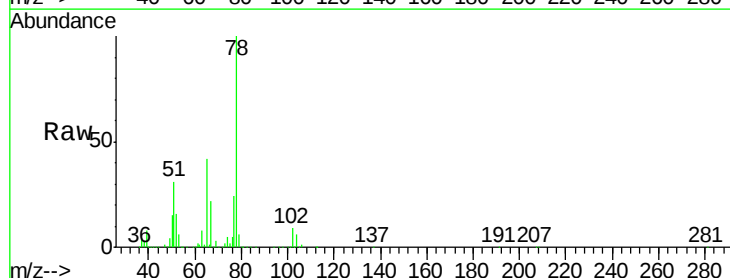
Manual Integrations  
APPROVED

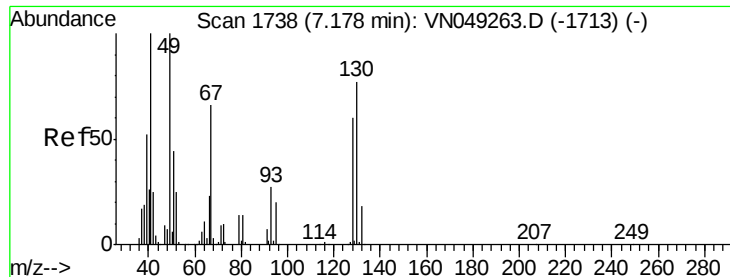
MMDadoda  
6/20/2018 4:54:03 PM



#40  
Benzene  
Concen: 19.030 ug/l  
RT: 8.04 min Scan# 2007  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.6  | 19.4  | 29.0  |





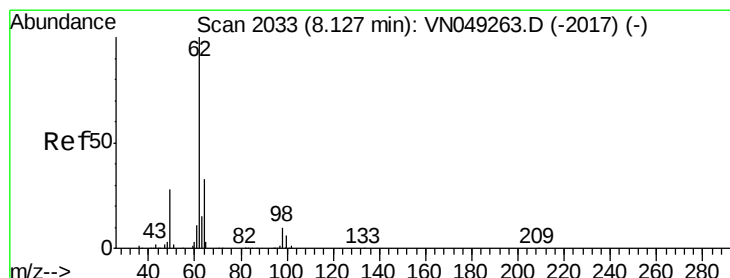
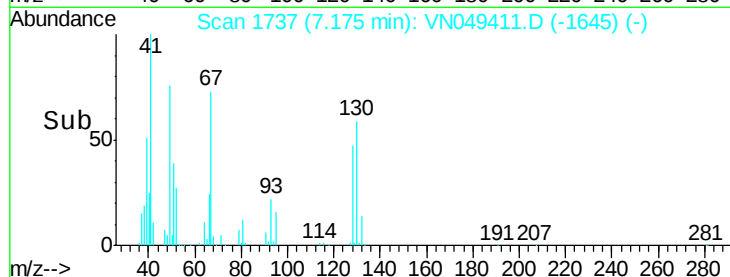
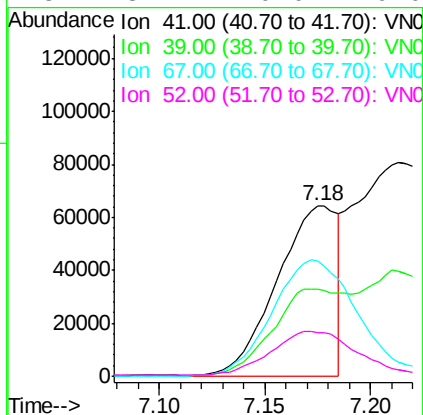
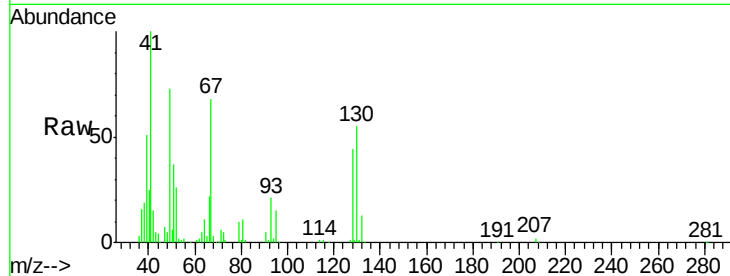
#41  
Methacrylonitrile  
Concen: 17.325 ug/l  
RT: 7.18 min Scan# 1737  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 41      | 100  |       |       |       |
| 39      | 53.7 | 0.0   | 0.0#  |       |
| 67      | 98.5 | 0.0   | 0.0#  |       |
| 52      | 37.2 | 0.0   | 0.0#  |       |

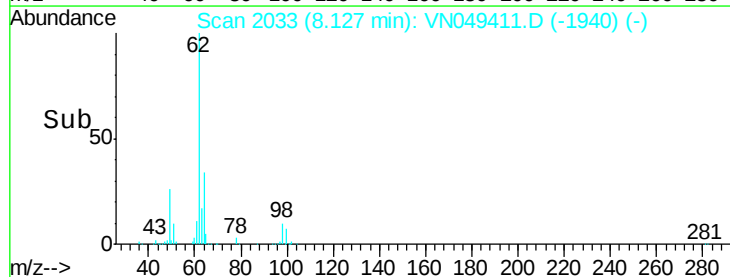
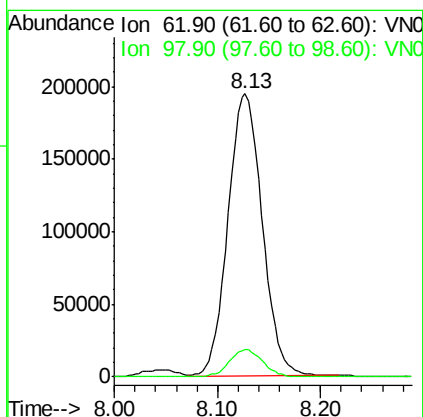
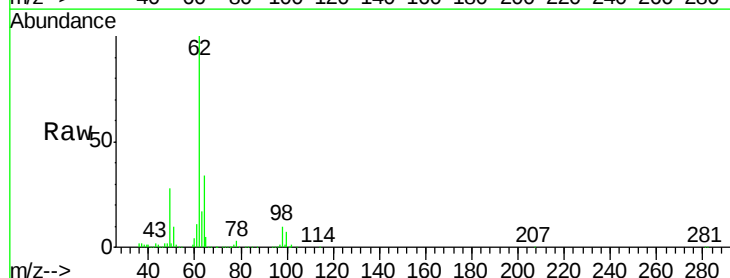
Manual Integrations  
APPROVED

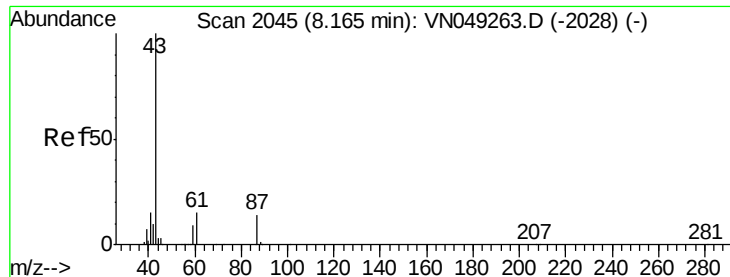
MMDadoda  
6/20/2018 4:54:03 PM



#42  
1,2-Dichloroethane  
Concen: 19.054 ug/l  
RT: 8.13 min Scan# 2033  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 62      | 100 |       |       |       |
| 98      | 9.5 | 0.0   | 16.2  |       |





#43

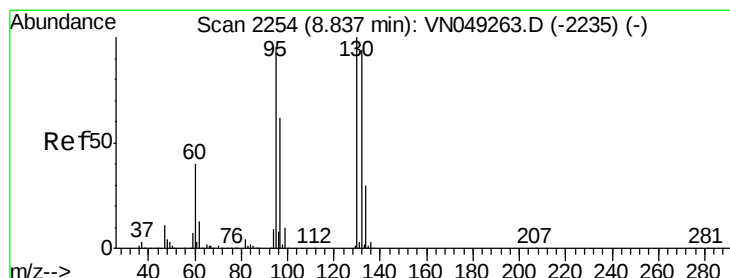
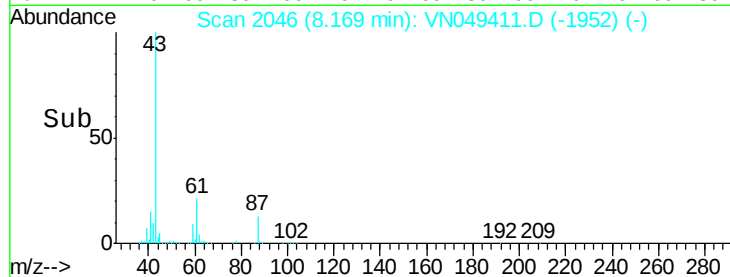
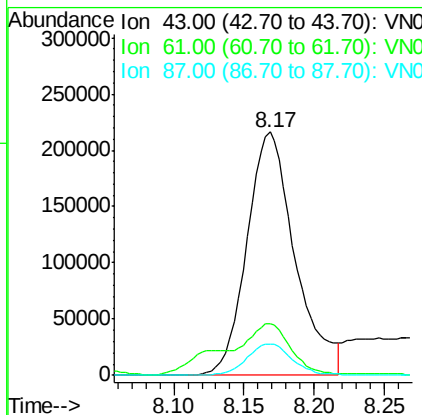
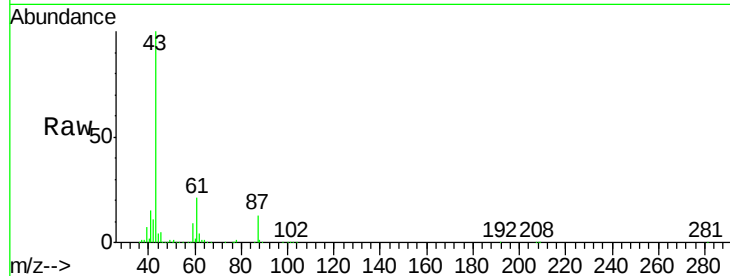
Isopropyl Acetate  
 Concen: 19.767 ug/l  
 RT: 8.17 min Scan# 2046  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 18.9  | 14.2  | 21.4  |
| 87      | 12.3  | 9.4   | 14.0  |

Manual Integrations  
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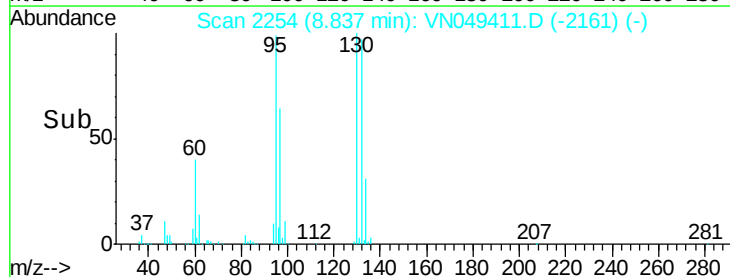
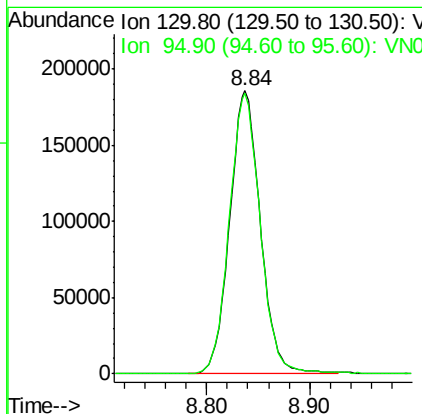
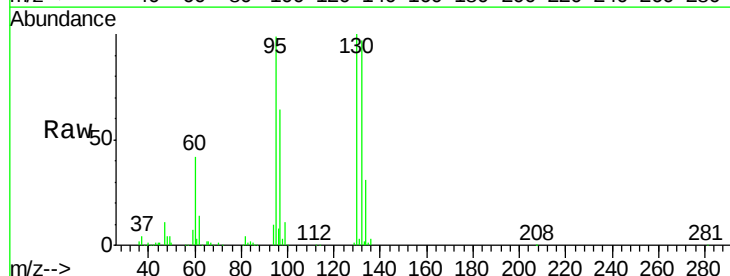
MMDadoda  
 6/20/2018 4:54:03 PM

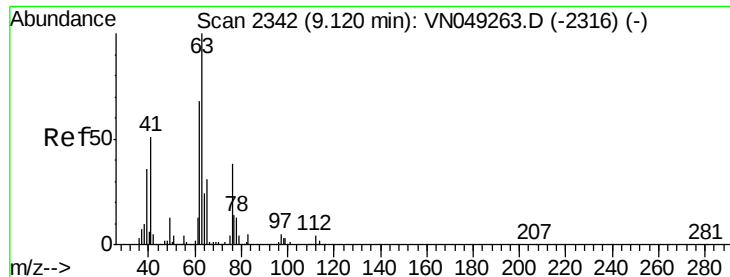


#44

Trichloroethene  
 Concen: 18.988 ug/l  
 RT: 8.84 min Scan# 2254  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 99.0  | 0.0   | 208.6 |





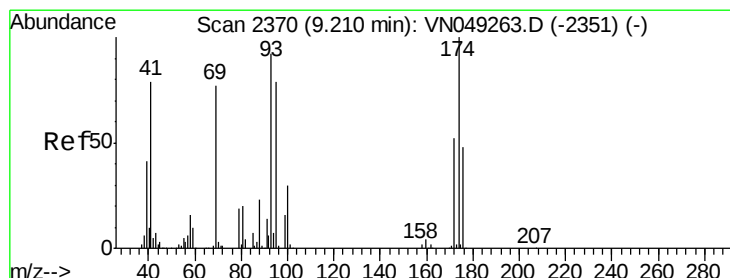
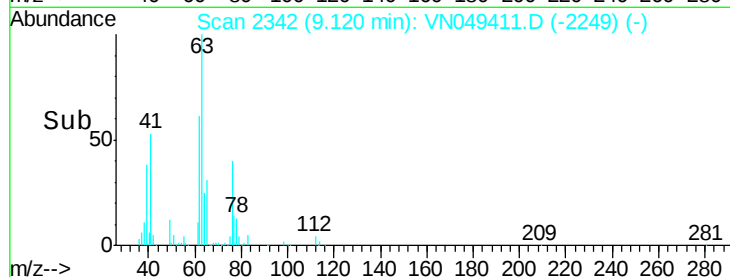
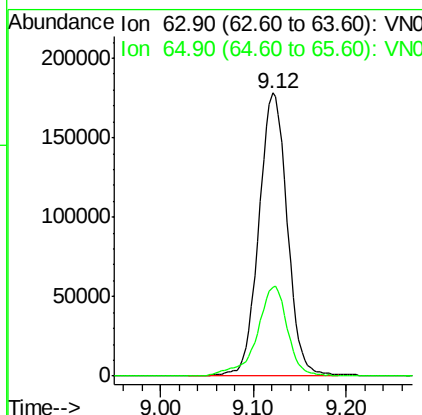
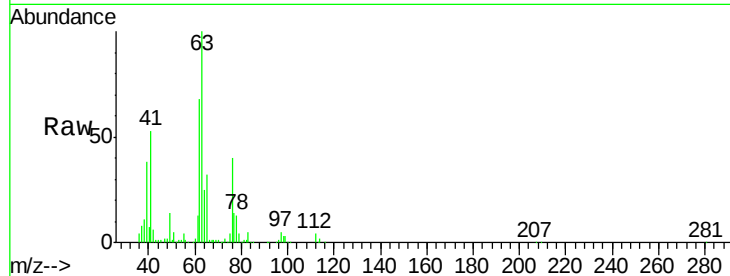
#45  
 1,2-Dichloropropane  
 Concen: 18.893 ug/l  
 RT: 9.12 min Scan# 2342  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.6  | 24.8  | 37.2  |

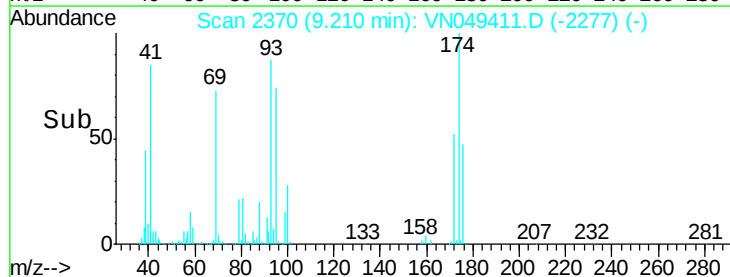
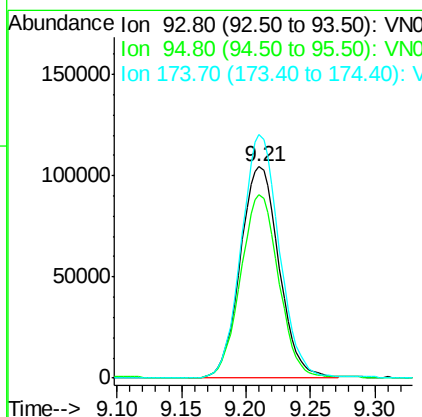
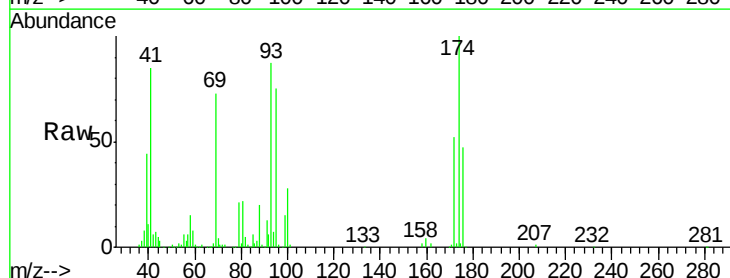
Manual Integrations  
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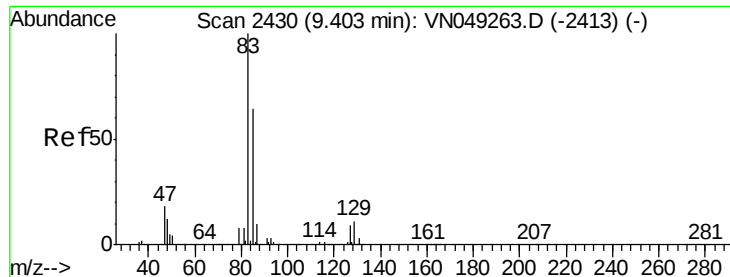
MMDadoda  
 6/20/2018 4:54:03 PM



#46  
 Dibromomethane  
 Concen: 18.805 ug/l  
 RT: 9.21 min Scan# 2370  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 85.1  | 67.2  | 100.8 |
| 174     | 113.2 | 75.6  | 113.4 |





#47

Bromodichloromethane

Concen: 19.019 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

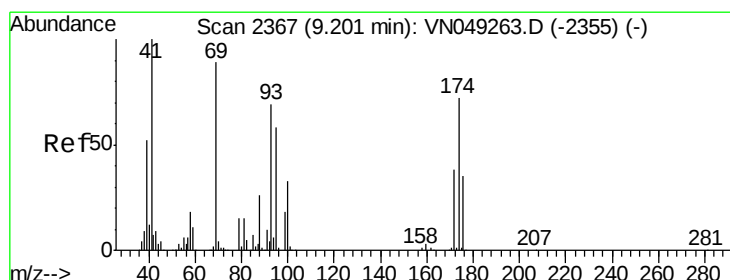
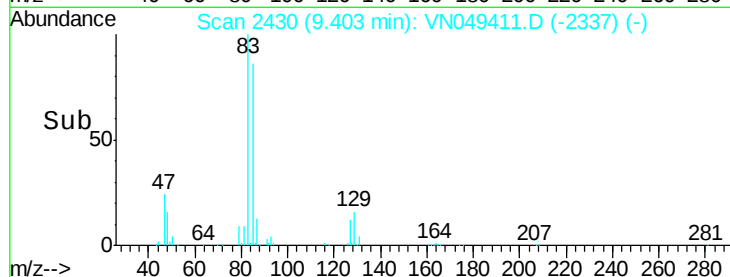
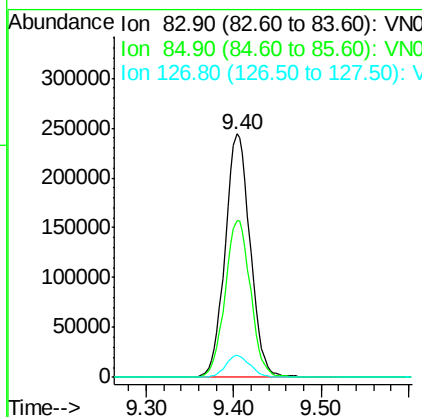
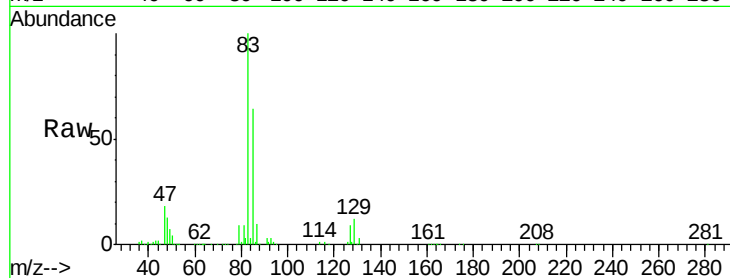
ClientSampleId :

VN0619WBS02

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 83    | Resp: | 486769 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.1  | 49.4  | 74.0   |
| 127      | 9.0   | 6.3   | 9.5    |

Manual Integrations  
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MMDadoda  
6/20/2018 4:54:03 PM



#48

Methyl methacrylate

Concen: 18.447 ug/l

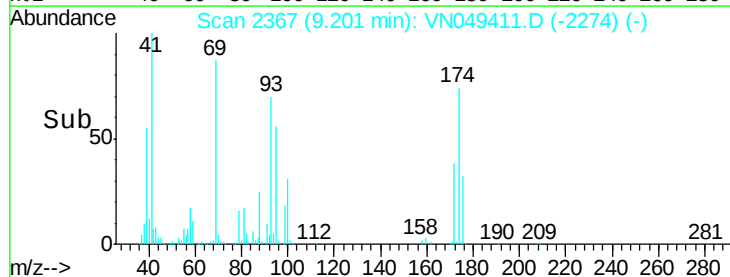
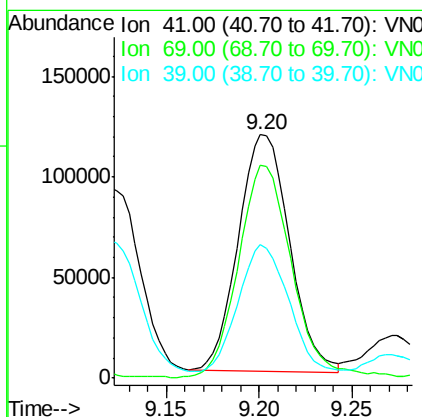
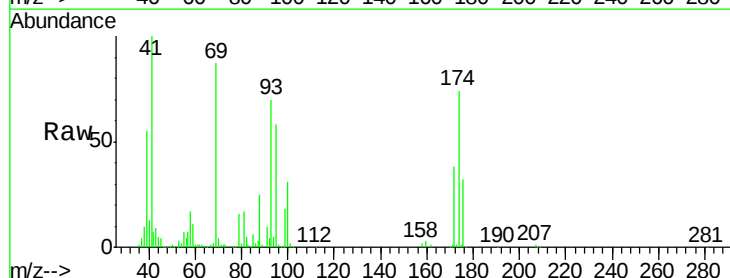
RT: 9.20 min Scan# 2367

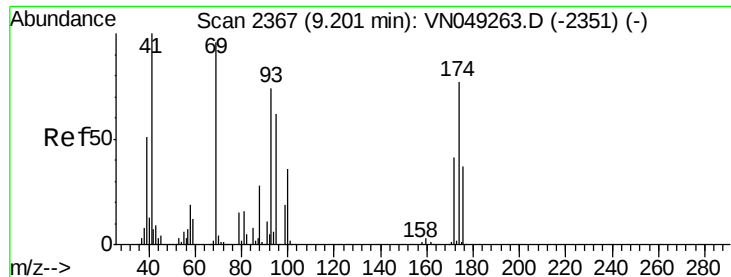
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 225772 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 93.4  | 62.0  | 93.0#  |
| 39       | 57.5  | 50.6  | 75.8   |





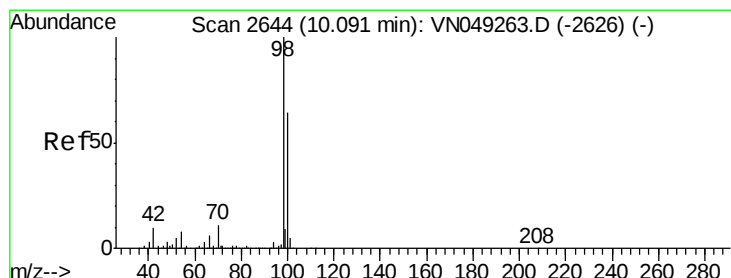
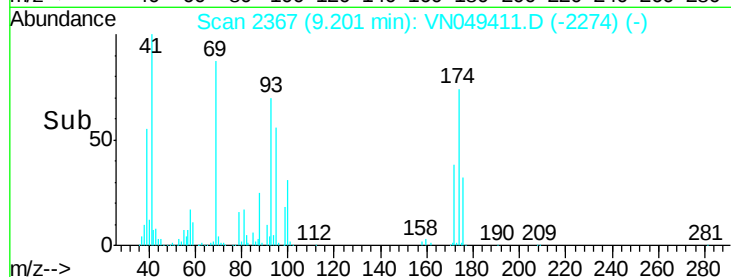
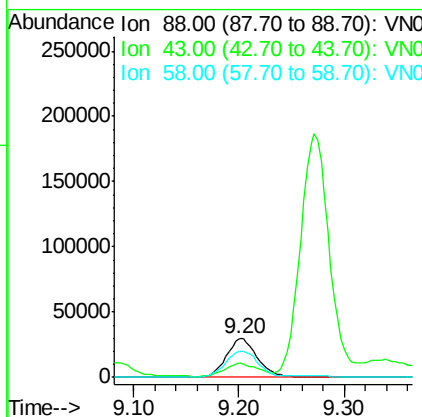
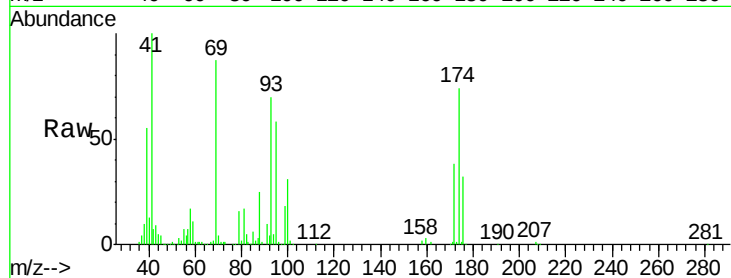
#49  
1,4-Dioxane  
Concen: 364.014 ug/l  
RT: 9.20 min Scan# 2367  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion   | 88    | Resp  | 61489 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 43        | 35.4  | 30.9  | 46.3  |
| 58        | 69.5  | 58.9  | 88.3  |

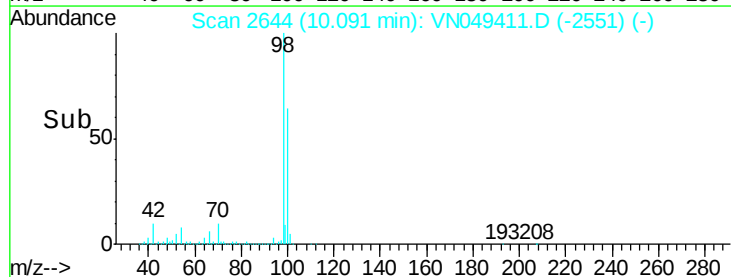
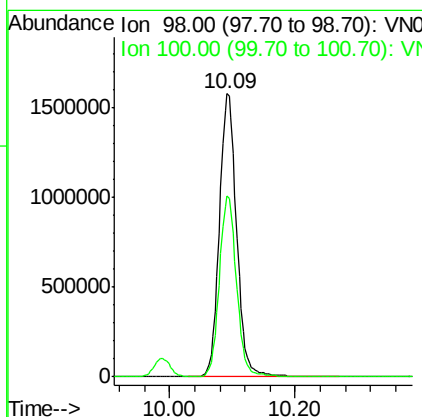
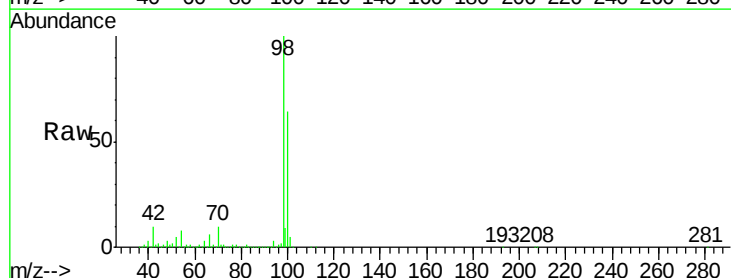
Manual Integrations  
APPROVED

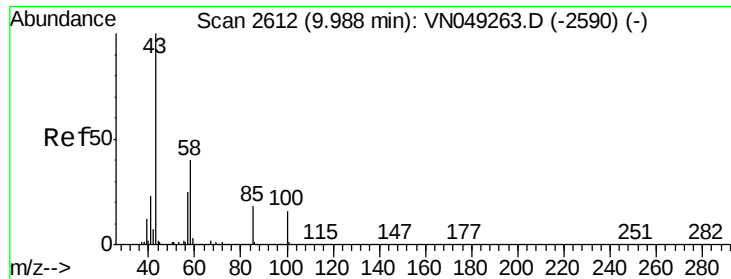
MMDadoda  
6/20/2018 4:54:03 PM



#50  
Toluene-d8  
Concen: 44.795 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion   | 98    | Resp  | 3012640 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 98        | 100   |       |         |
| 100       | 64.0  | 49.8  | 74.8    |





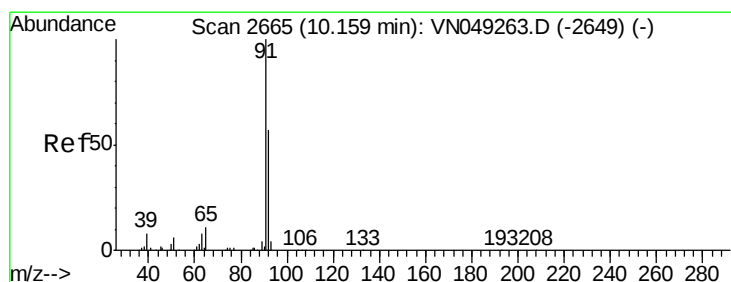
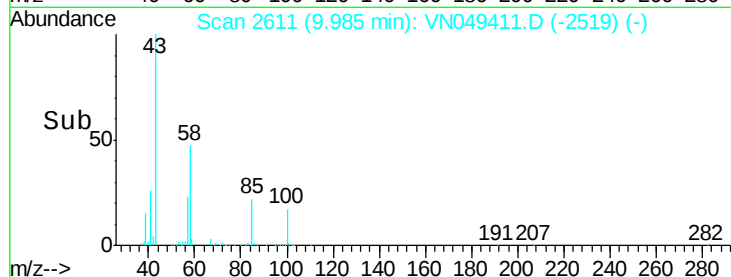
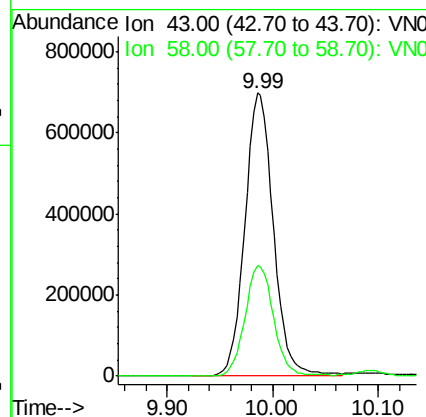
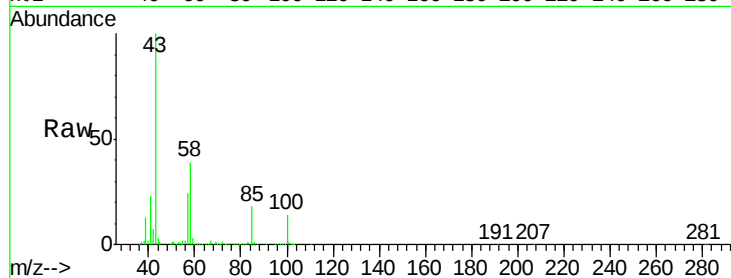
#51  
4-Methyl-2-Pentanone  
Concen: 95.950 ug/l  
RT: 9.99 min Scan# 2611  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

Tot Ion: 43 Resp: 1306986  
Ion Ratio Lower Upper  
43 100  
58 39.3 29.0 43.6

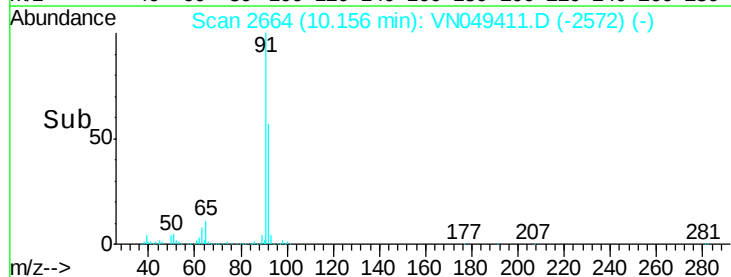
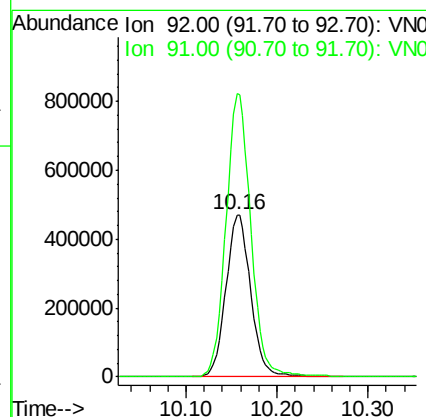
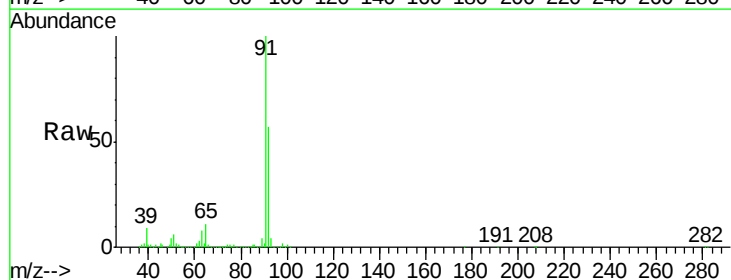
Manual Integrations  
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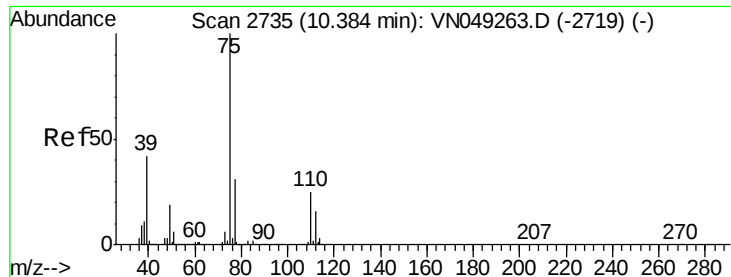
MMDadoda  
6/20/2018 4:54:03 PM



#52  
Toluene  
Concen: 19.782 ug/l  
RT: 10.16 min Scan# 2664  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Tgt Ion: 92 Resp: 890668  
Ion Ratio Lower Upper  
92 100  
91 174.6 143.4 215.2





#53

t-1,3-Dichloropropene

Concen: 17.472 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampled :

VN0619WBS02

Tot Ion: 75 Resp: 427767

Ion Ratio Lower Upper

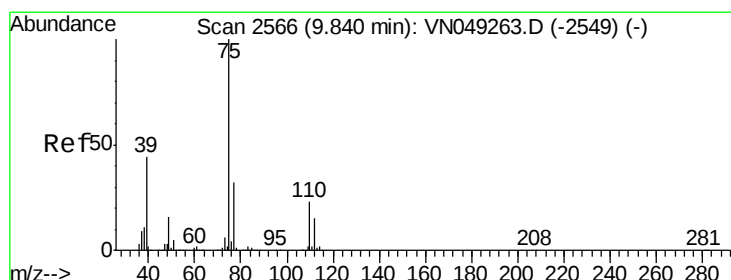
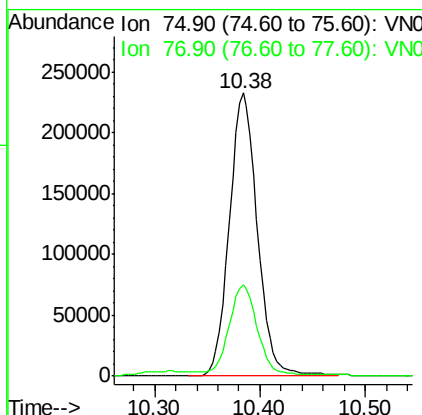
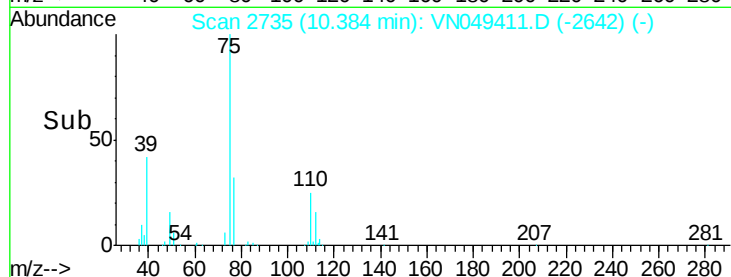
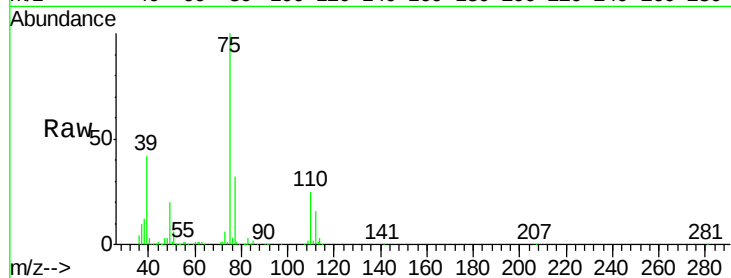
75 100

77 31.5 25.2 37.8

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6/20/2018 4:54:03 PM



#54

cis-1,3-Dichloropropene

Concen: 17.674 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

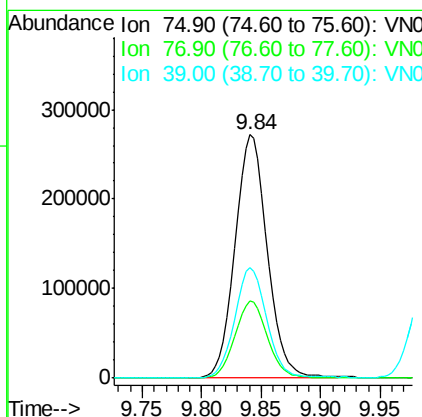
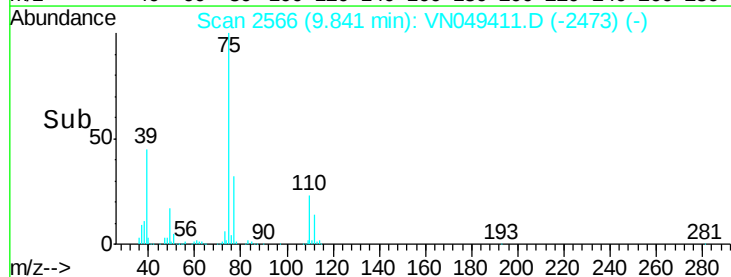
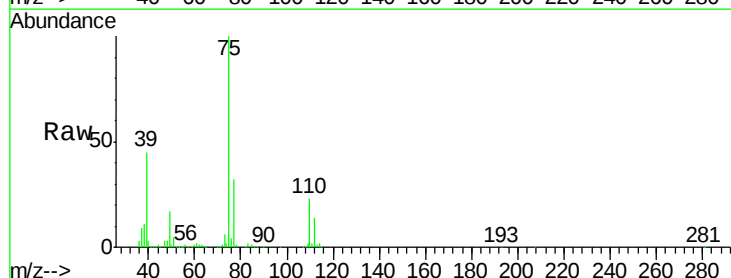
Tgt Ion: 75 Resp: 510934

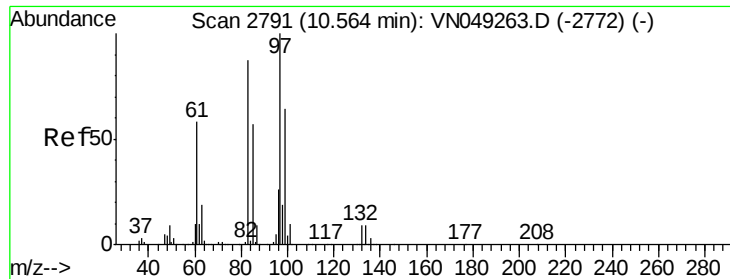
Ion Ratio Lower Upper

75 100

77 31.6 24.8 37.2

39 45.3 45.1 67.7





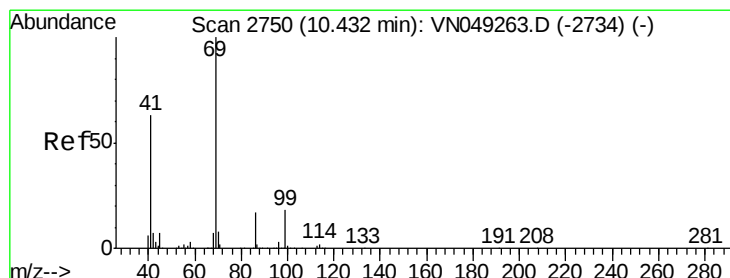
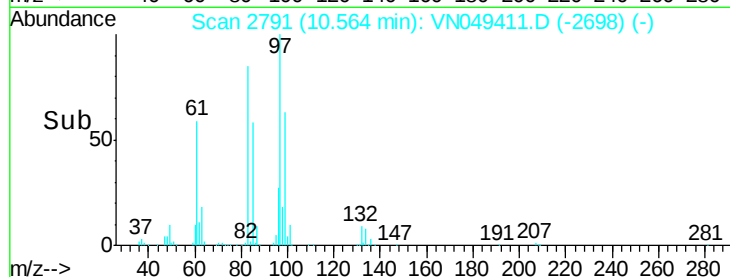
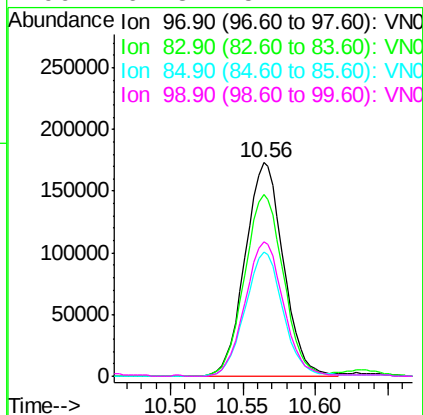
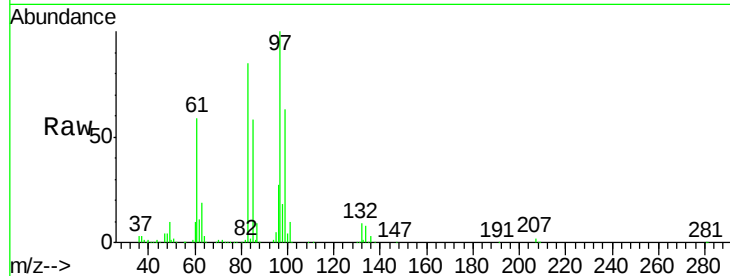
#55  
 1,1,2-Trichloroethane  
 Concen: 18.999 ug/l  
 RT: 10.56 min Scan# 2791  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 318884 |       |       |
| 83      | 85.0 | 71.5  | 107.3  |       |       |
| 85      | 58.2 | 47.0  | 70.4   |       |       |
| 99      | 62.8 | 51.4  | 77.2   |       |       |

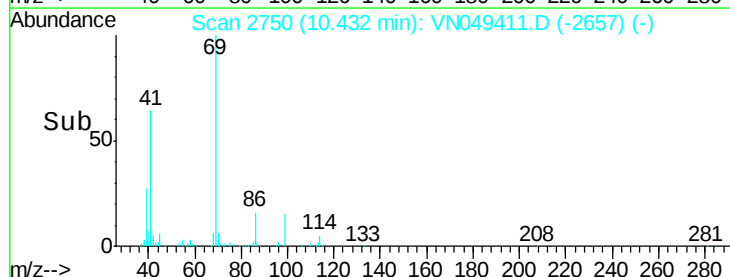
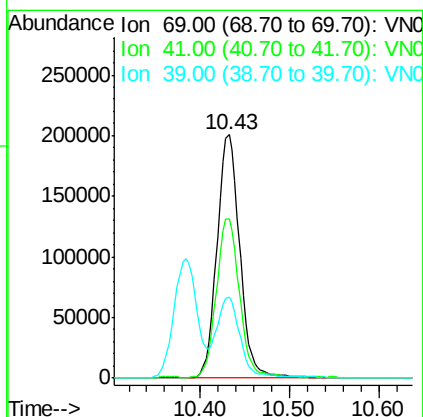
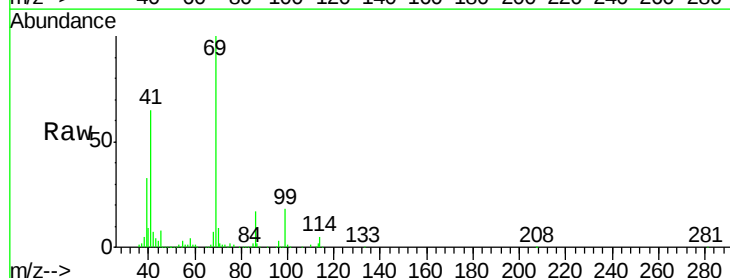
Manual Integrations  
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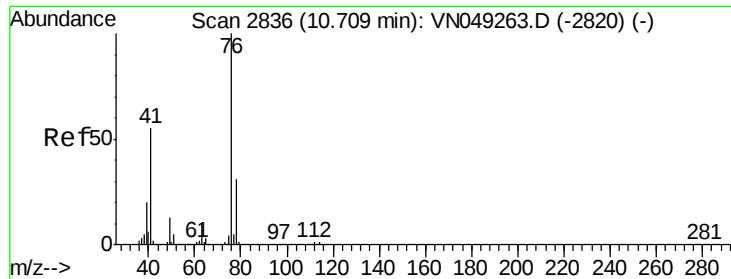
MMDadoda  
 6/20/2018 4:54:03 PM



#56  
 Ethyl methacrylate  
 Concen: 18.434 ug/l  
 RT: 10.43 min Scan# 2750  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 69      | 100  |       | 356939 |       |       |
| 41      | 65.4 | 58.4  | 87.6   |       |       |
| 39      | 32.9 | 35.5  | 53.3#  |       |       |





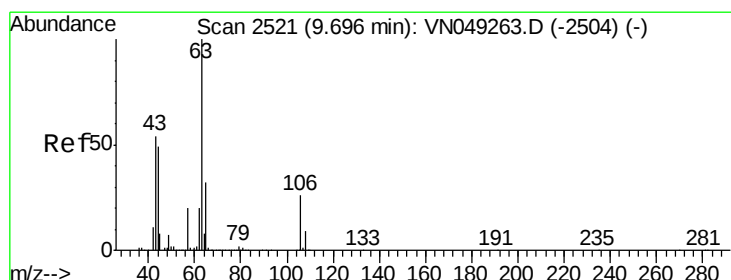
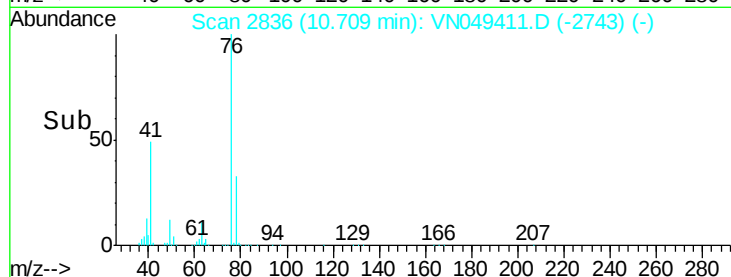
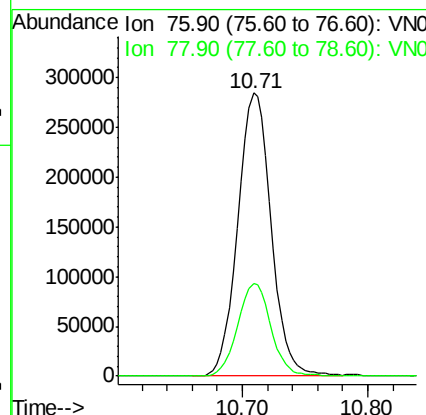
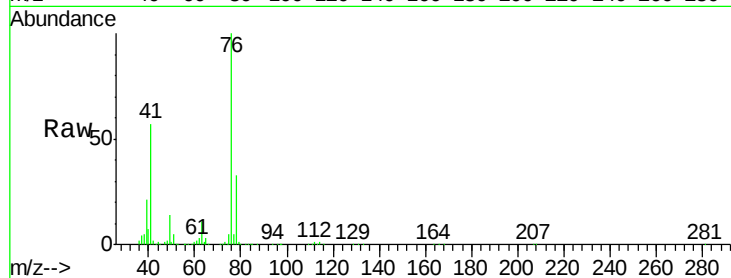
#57  
 1,3-Dichloropropane  
 Concen: 18.932 ug/l  
 RT: 10.71 min Scan# 2836  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 32.7  | 26.3  | 39.5  |

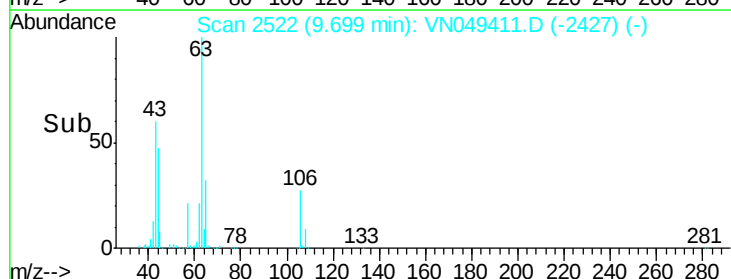
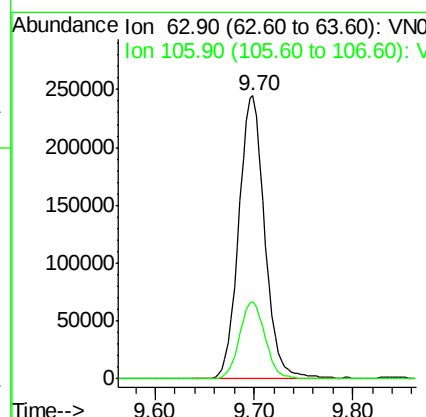
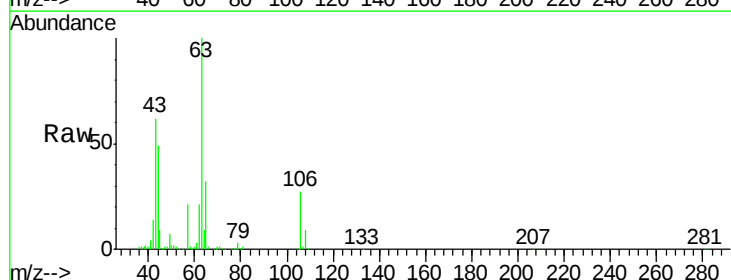
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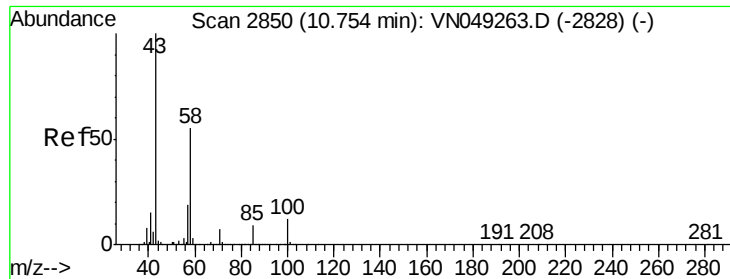
MMDadoda  
 6/20/2018 4:54:03 PM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 75.428 ug/l  
 RT: 9.70 min Scan# 2522  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 106     | 26.9  | 19.4  | 29.2  |





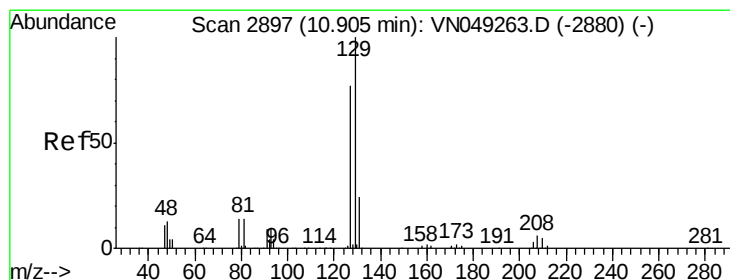
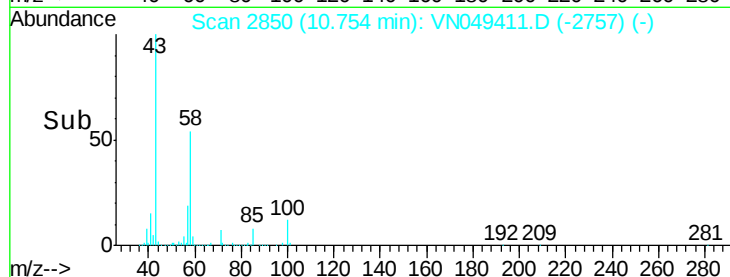
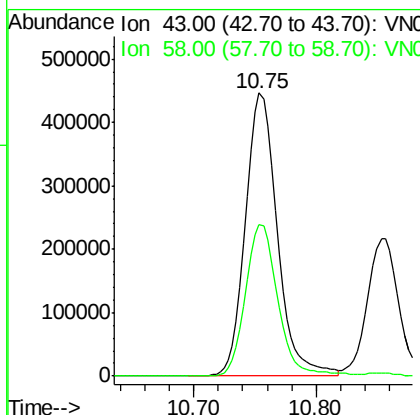
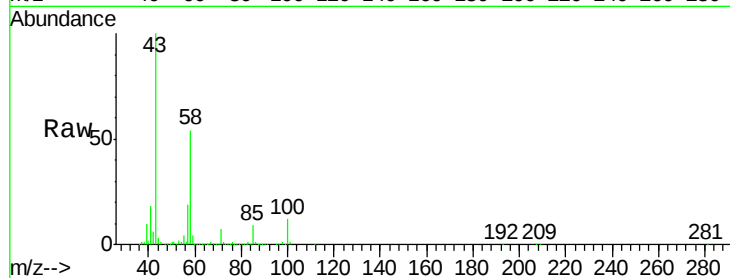
#59  
2-Hexanone  
Concen: 91.181 ug/l  
RT: 10.75 min Scan# 2850  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

Tot Ion: 43 Resp: 800730  
Ion Ratio Lower Upper  
43 100  
58 54.5 25.2 75.6

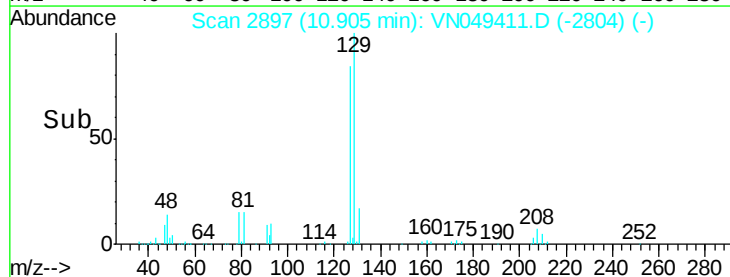
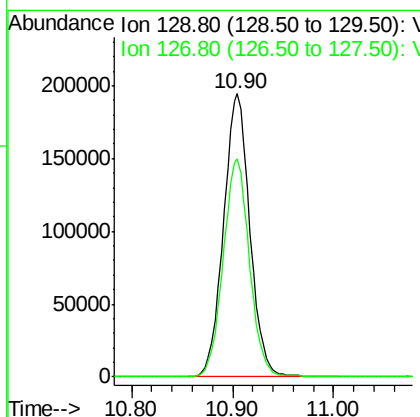
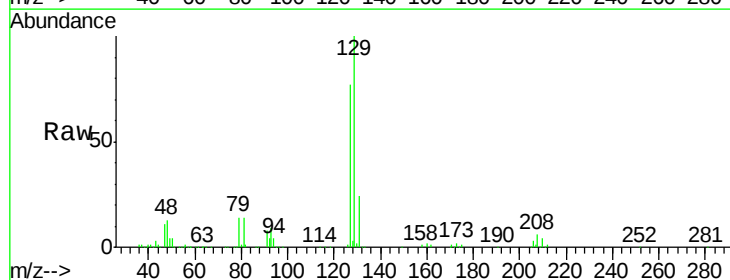
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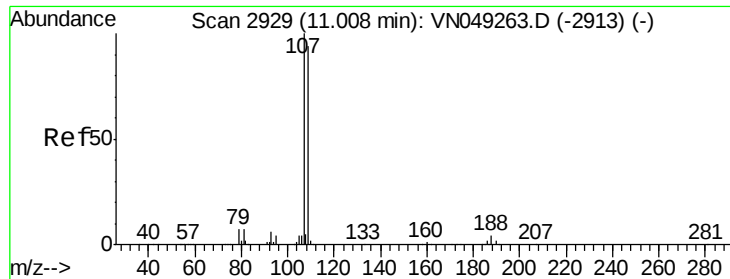
MMDadoda  
6/20/2018 4:54:03 PM



#60  
Dibromochloromethane  
Concen: 18.923 ug/l  
RT: 10.90 min Scan# 2897  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Tgt Ion: 129 Resp: 354492  
Ion Ratio Lower Upper  
129 100  
127 77.0 39.1 117.2





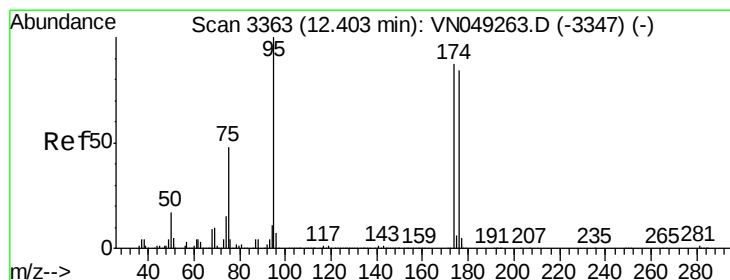
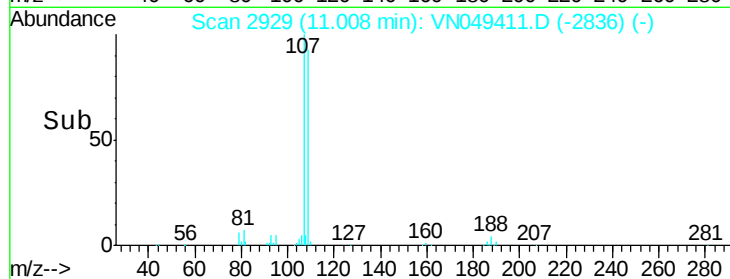
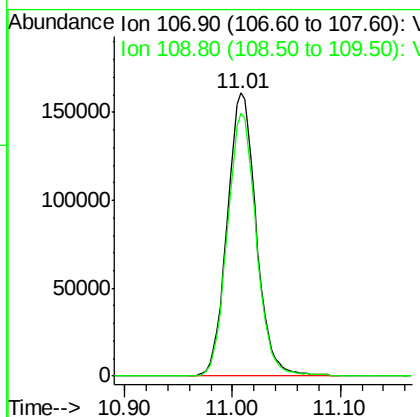
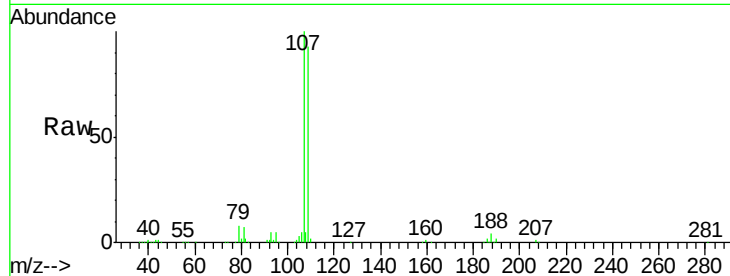
#61  
 1,2-Dibromoethane  
 Concen: 19.365 ug/l  
 RT: 11.01 min Scan# 2929  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.7  | 75.4  | 113.2 |

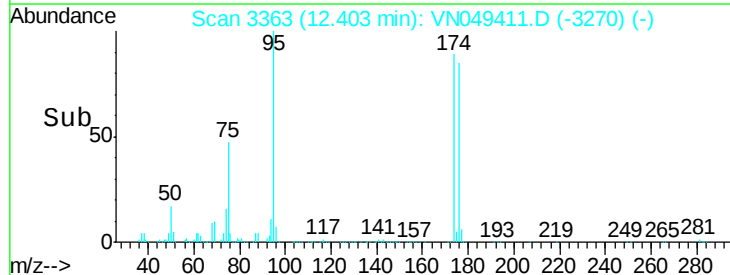
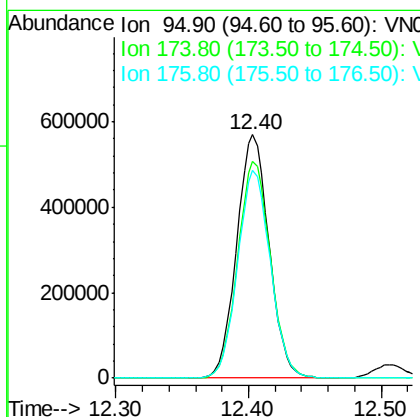
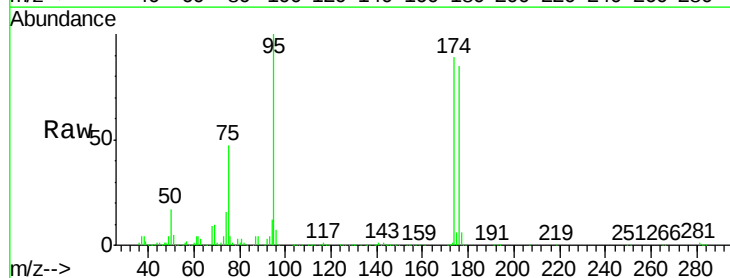
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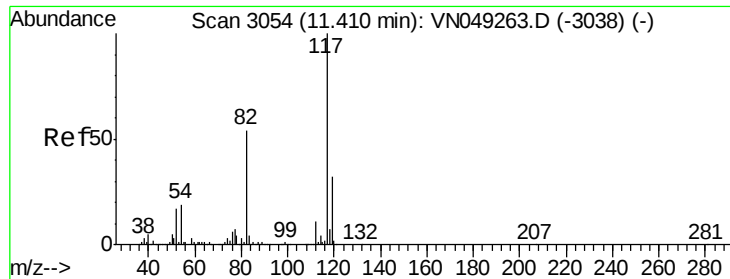
MMDadoda  
 6/20/2018 4:54:03 PM



#62  
 4-Bromofluorobenzene  
 Concen: 43.430 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 90.0  | 0.0   | 165.6 |
| 176     | 86.0  | 0.0   | 157.4 |





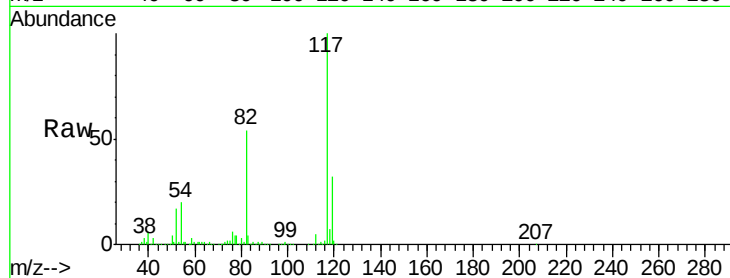
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

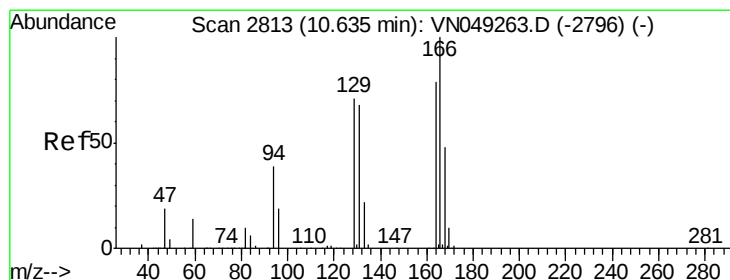
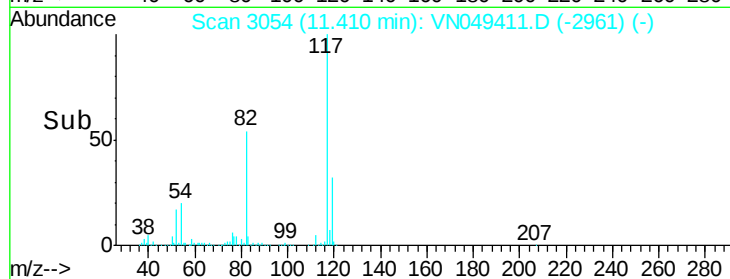
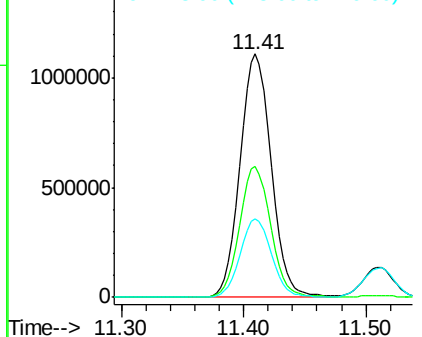
Tot Ion:117 Resp: 1954309  
Ion Ratio Lower Upper  
117 100  
82 53.8 45.9 68.9  
119 32.3 25.5 38.3

Manual Integrations  
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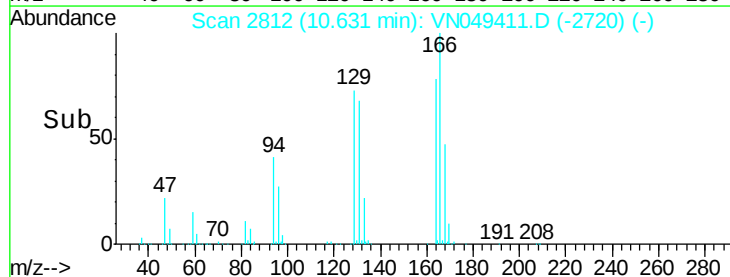
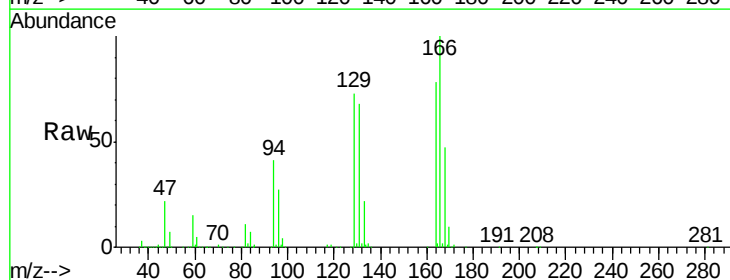
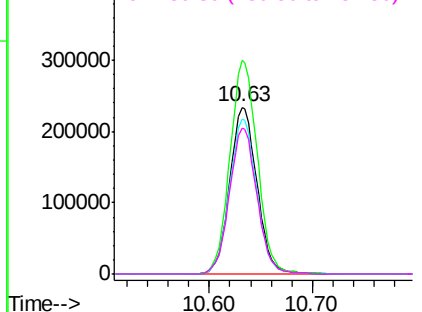
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

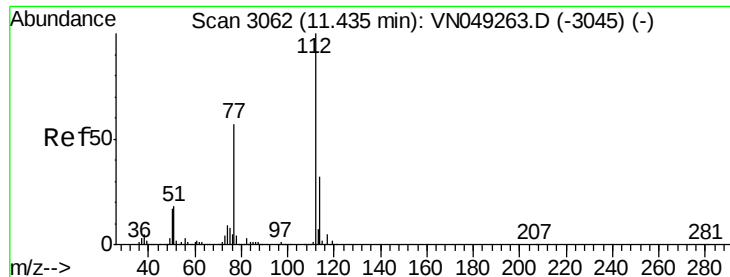


#64  
Tetrachloroethene  
Concen: 21.468 ug/l  
RT: 10.63 min Scan# 2812  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Tgt Ion:164 Resp: 429915  
Ion Ratio Lower Upper  
164 100  
166 128.1 101.4 152.2  
129 93.2 74.1 111.1  
131 87.7 73.7 110.5

Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





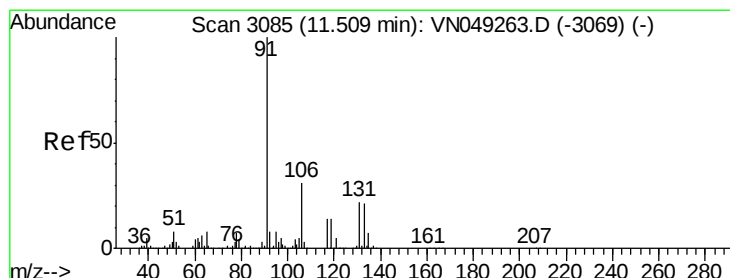
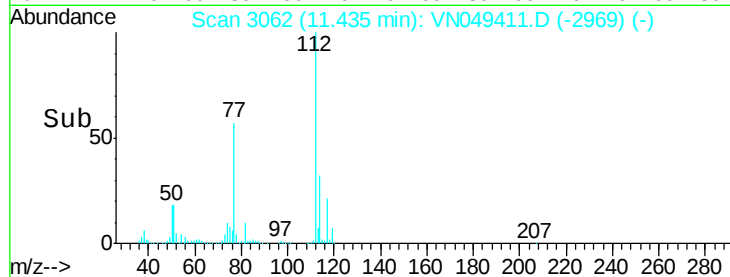
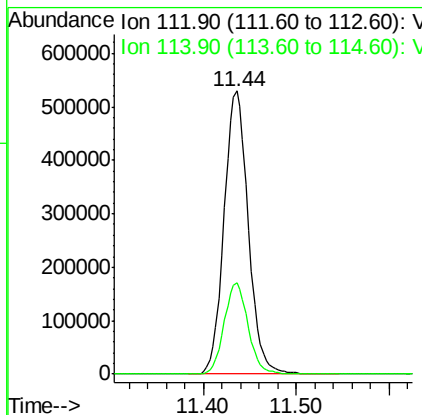
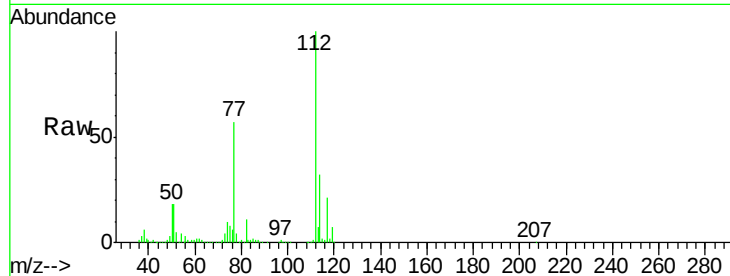
#65  
Chlorobenzene  
Concen: 19.017 ug/l  
RT: 11.44 min Scan# 3062  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

Tot Ion:112 Resp: 957386  
Ion Ratio Lower Upper  
112 100  
114 32.1 26.2 39.4

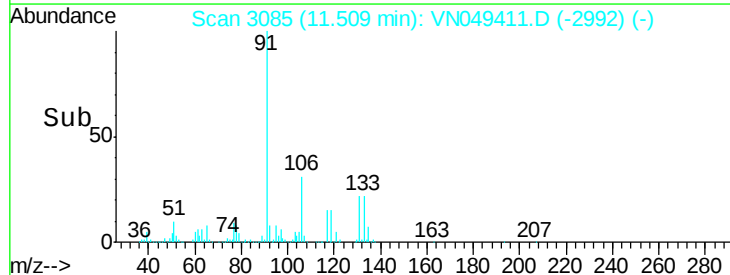
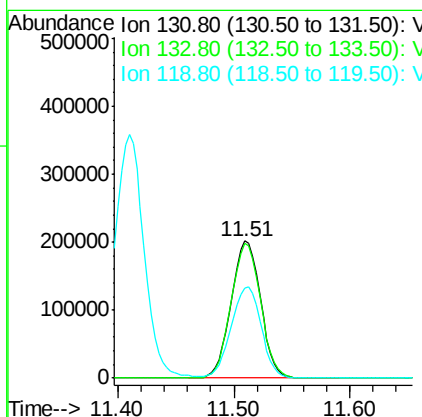
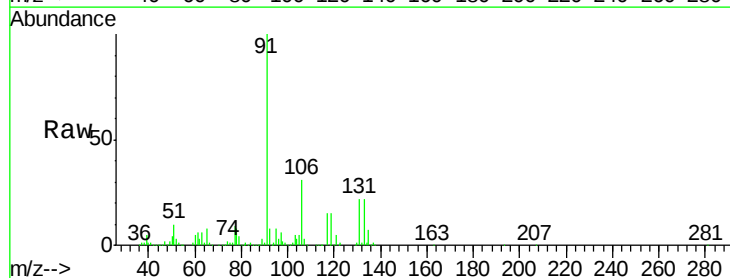
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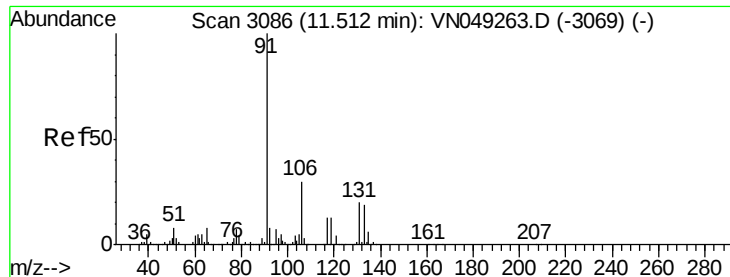
MMDadoda  
6/20/2018 4:54:03 PM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 18.680 ug/l  
RT: 11.51 min Scan# 3085  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Tgt Ion:131 Resp: 353902  
Ion Ratio Lower Upper  
131 100  
133 98.6 48.0 144.2  
119 68.2 33.6 100.8





#67

Ethyl Benzene

Concen: 19.114 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampled :

VN0619WBS02

Tot Ion: 91 Resp: 1596161

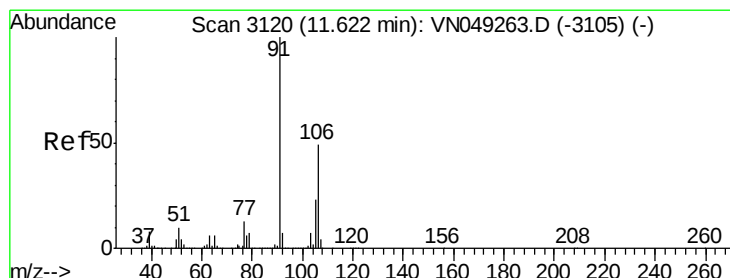
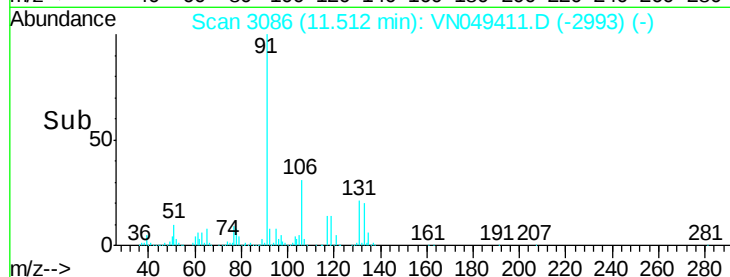
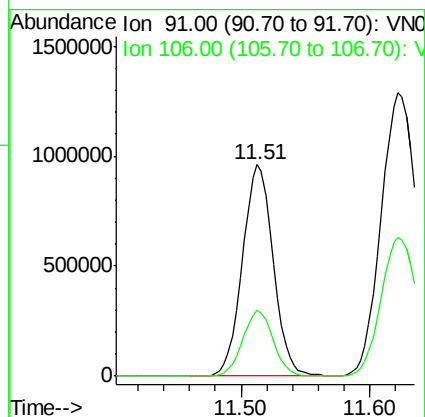
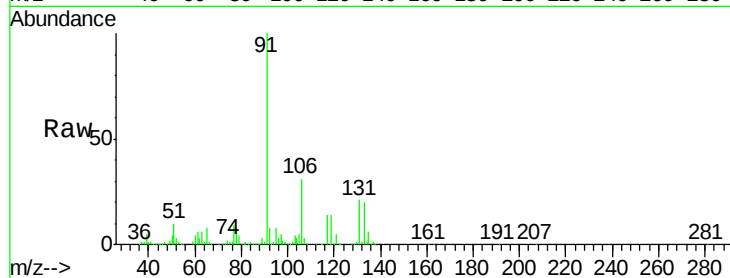
Ion Ratio Lower Upper

91 100

106 30.8 23.9 35.9

Manual Integrations  
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6/20/2018 4:54:03 PM



#68

m/p-Xylenes

Concen: 39.481 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049411.D

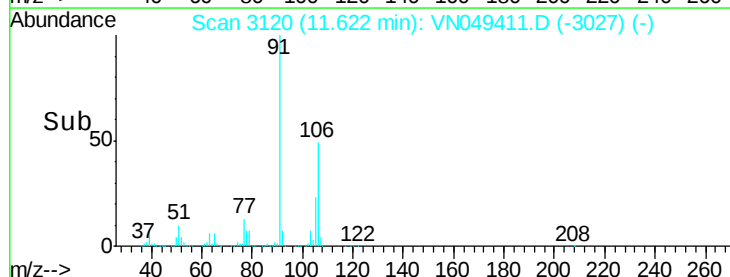
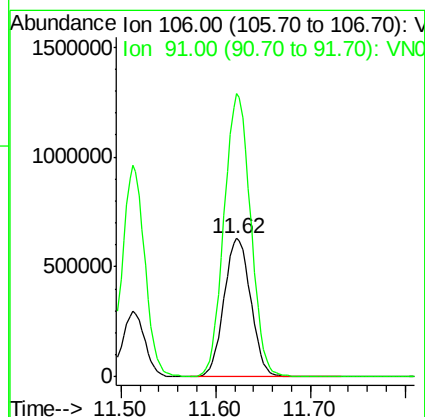
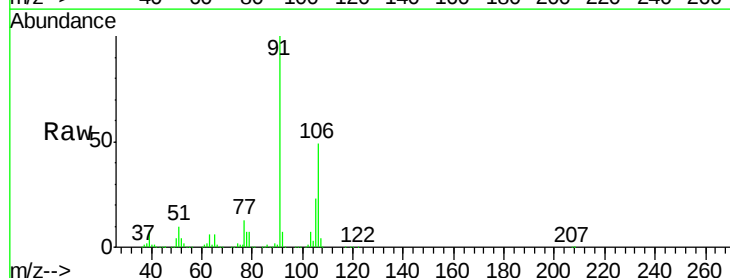
Acq: 20 Jun 2018 3:12

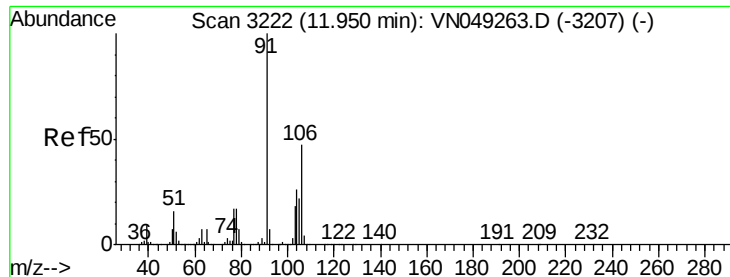
Tgt Ion: 106 Resp: 1237307

Ion Ratio Lower Upper

106 100

91 203.3 167.3 250.9





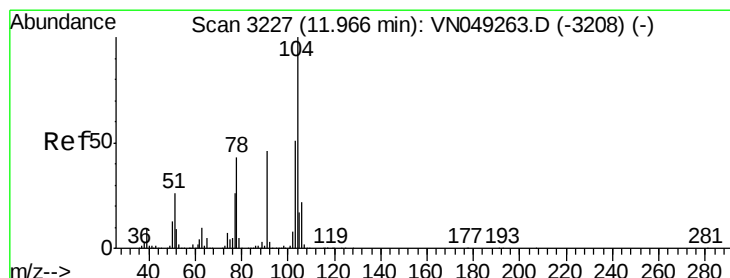
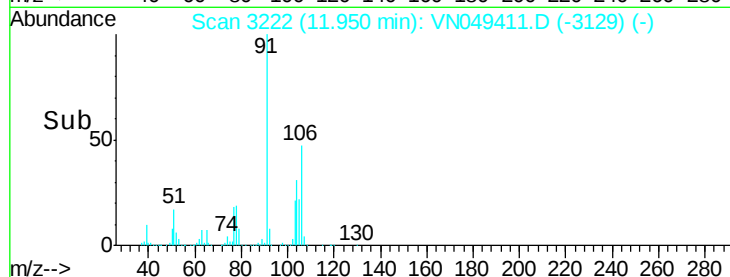
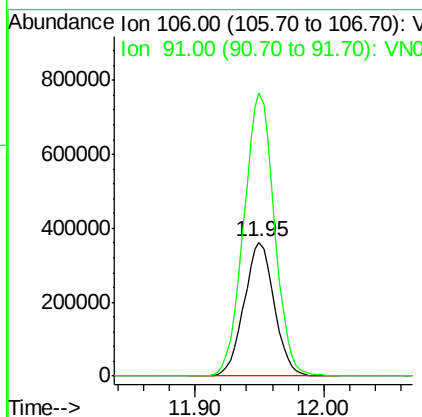
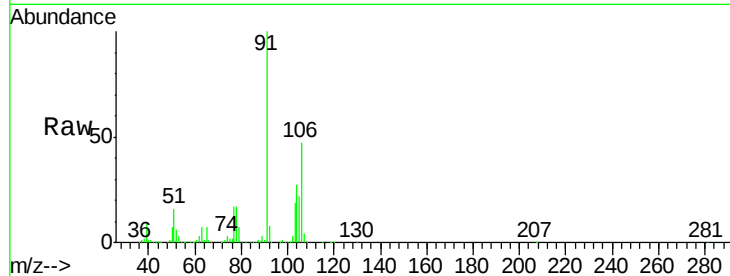
#69  
o-Xylene  
Concen: 19.553 ug/l  
RT: 11.95 min Scan# 3222  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0619WBS02

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 106     | 106 | 100   | 590198 |       |       |
| 91      | 91  | 214.8 | 111.0  | 333.0 |       |

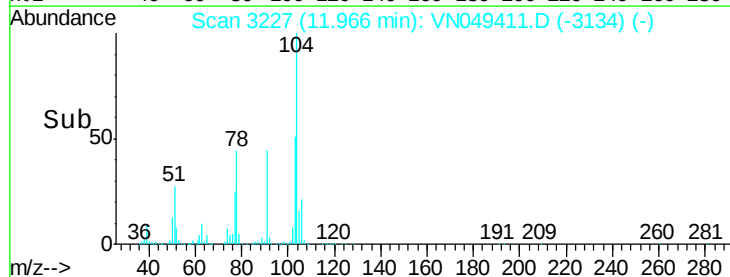
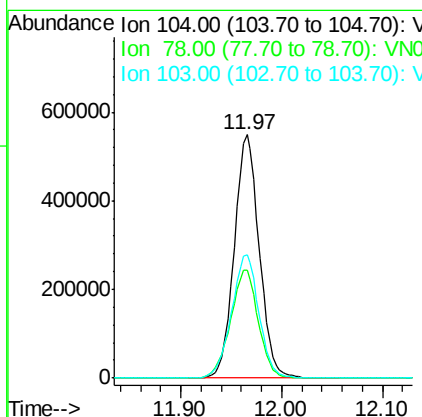
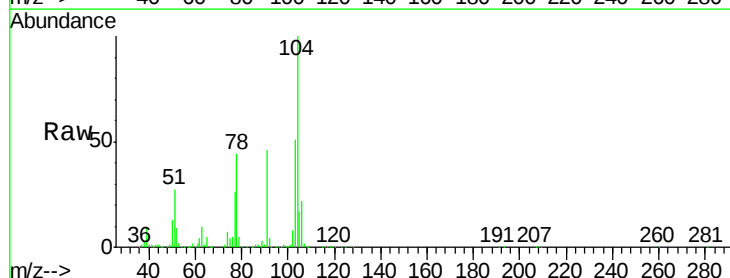
Manual Integrations  
APPROVED

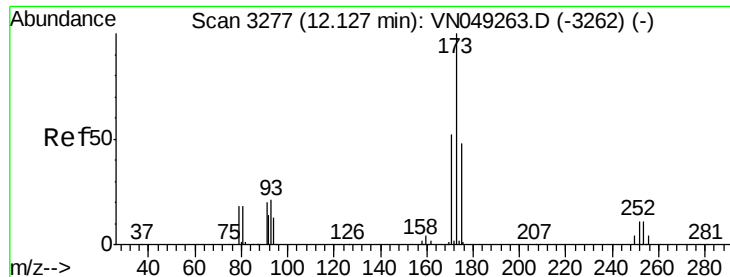
MMDadoda  
6/20/2018 4:54:03 PM



#70  
Styrene  
Concen: 19.834 ug/l  
RT: 11.97 min Scan# 3227  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 104     | 104 | 100   | 944511 |       |       |
| 78      | 78  | 49.4  | 41.6   | 62.4  |       |
| 103     | 103 | 55.6  | 45.4   | 68.2  |       |





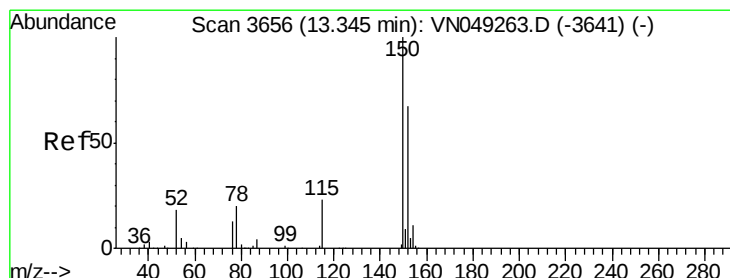
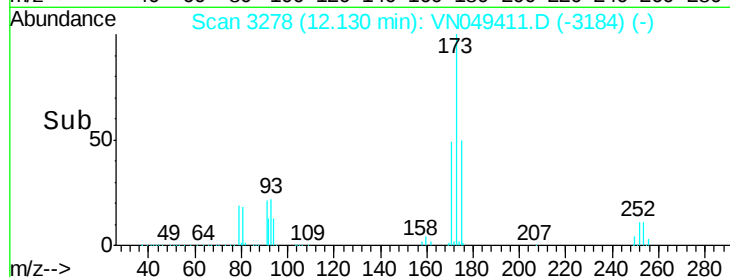
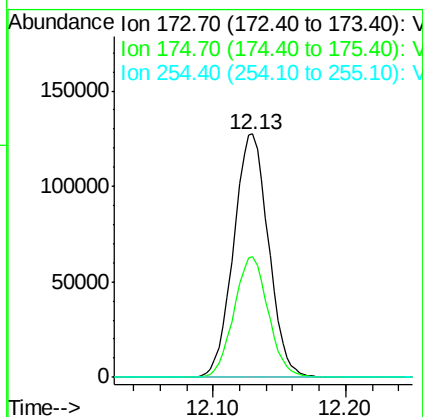
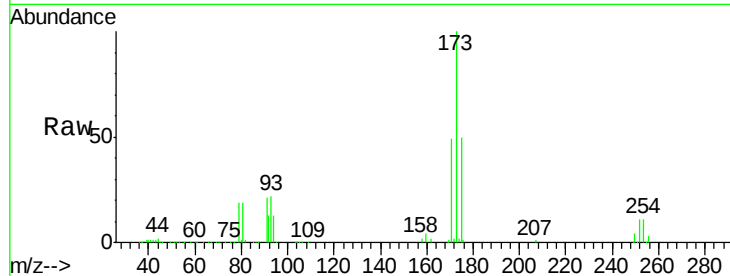
#71  
Bromoform  
Concen: 18.978 ug/l  
RT: 12.13 min Scan# 3278  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.7  | 24.5  | 73.5  |
| 254     | 0.1   | 0.1   | 0.1#  |

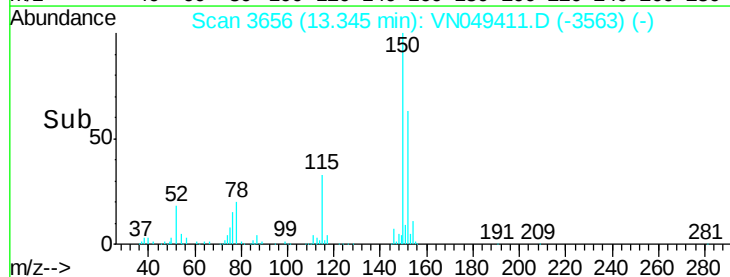
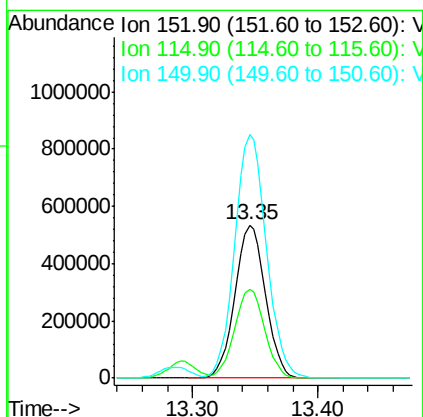
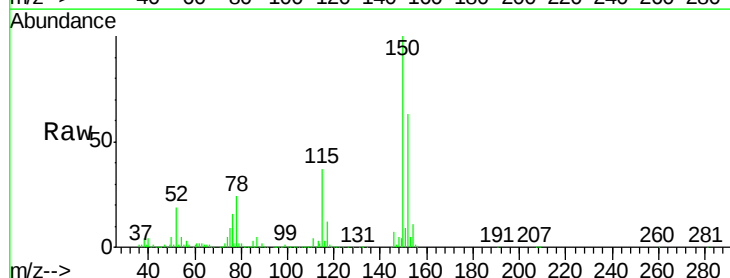
Manual Integrations  
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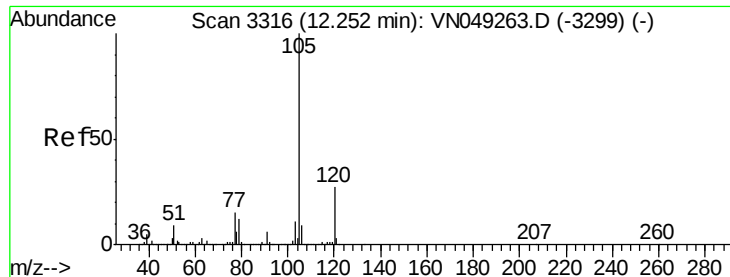
MMDadoda  
6/20/2018 4:54:03 PM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3656  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.4  | 28.7  | 86.1  |
| 150     | 165.2 | 0.0   | 351.0 |





#73

Isopropylbenzene

Concen: 19.847 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion:105 Resp: 1571920

Ion Ratio Lower Upper

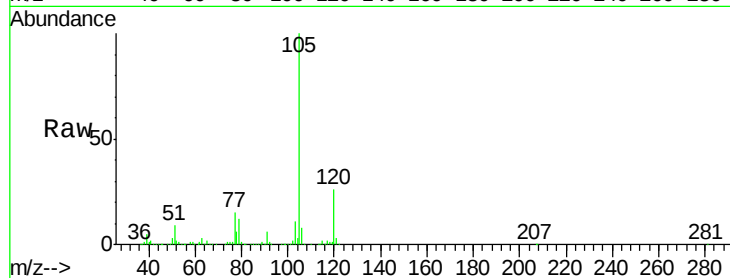
105 100

120 26.3 12.8 38.3

Manual Integrations  
APPROVED

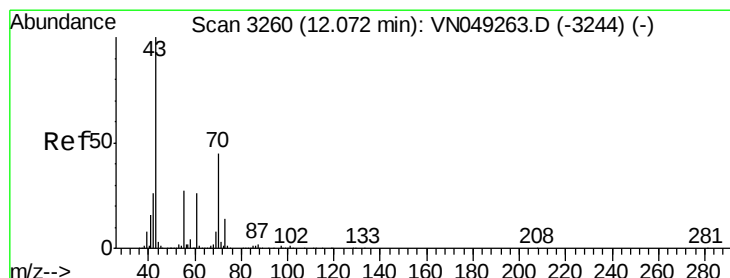
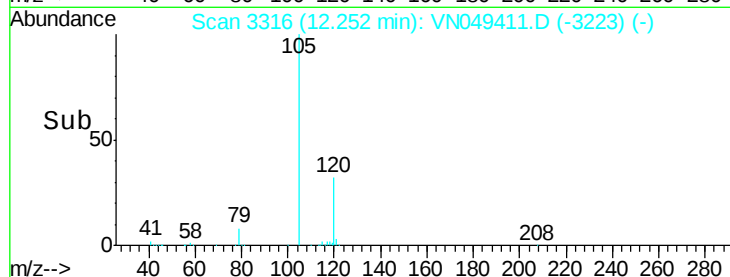
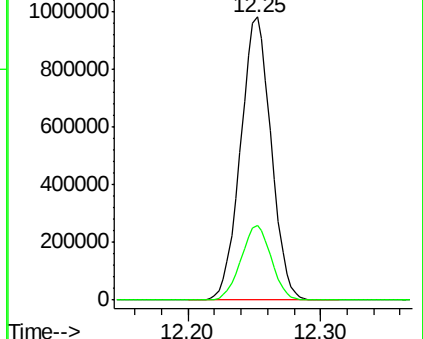
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.076 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Tgt Ion: 43 Resp: 350671

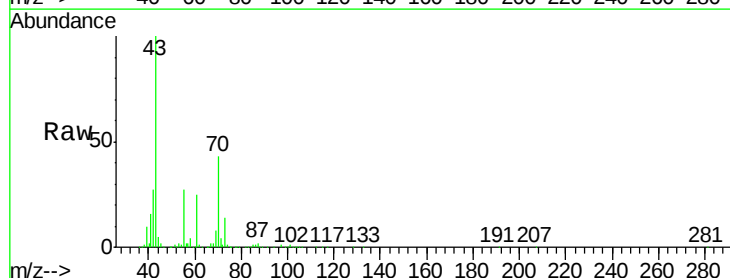
Ion Ratio Lower Upper

43 100

70 43.2 30.3 45.5

55 28.2 19.4 29.2

61 24.7 17.8 26.6

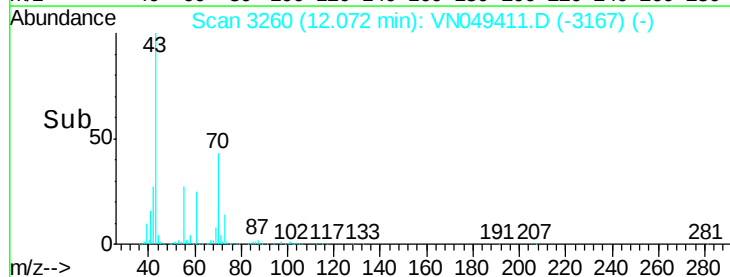
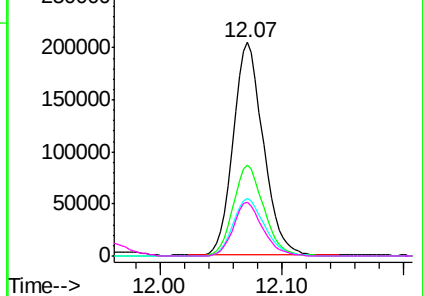


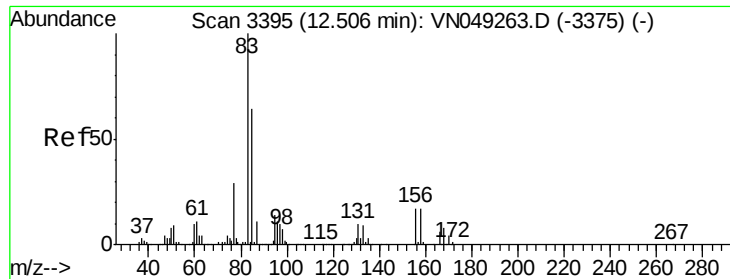
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 19.796 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

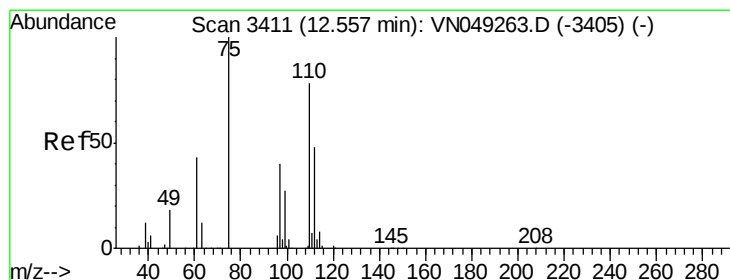
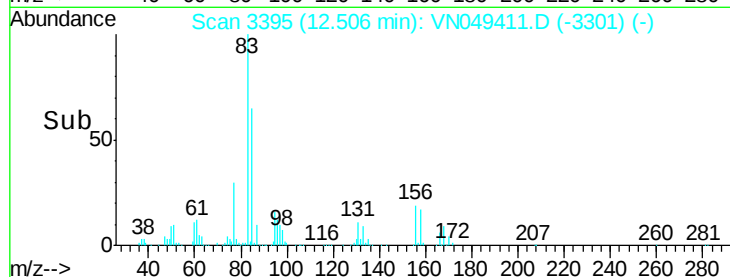
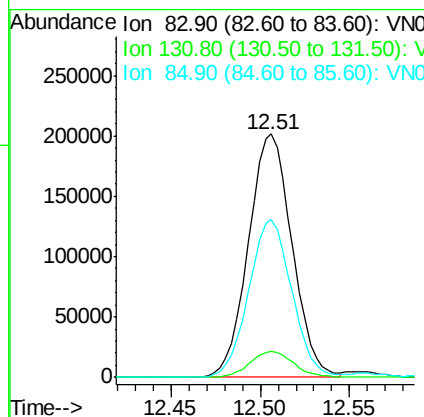
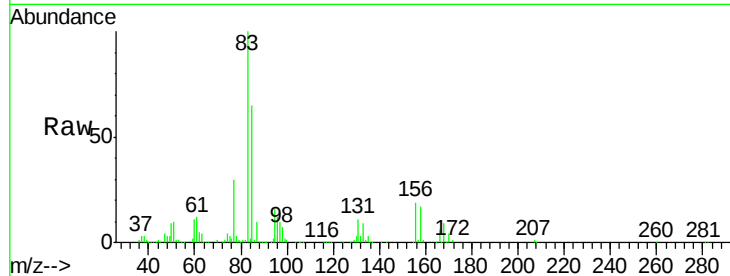
ClientSampleId :

VN0619WBS02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 344597 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.7  | 5.0   | 15.0   |
| 85        | 64.0  | 32.0  | 96.0   |

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#76

1,2,3-Trichloropropane

Concen: 19.004 ug/l m

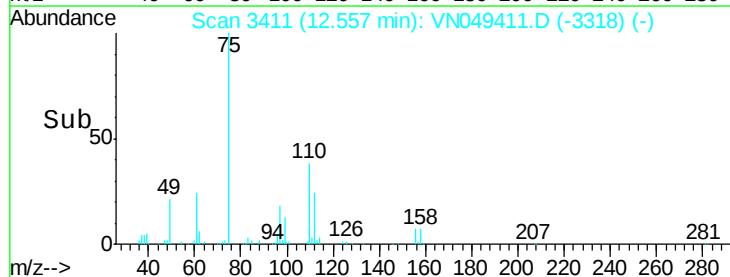
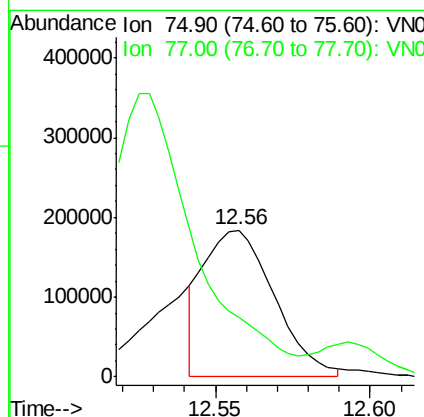
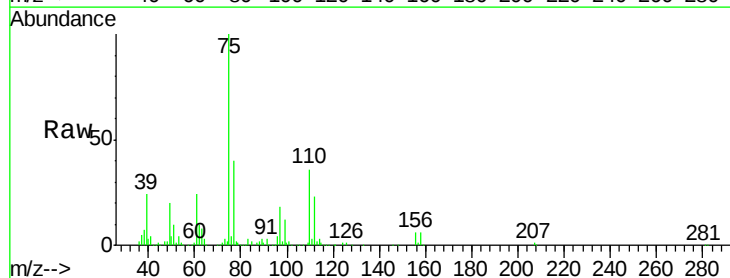
RT: 12.56 min Scan# 3411

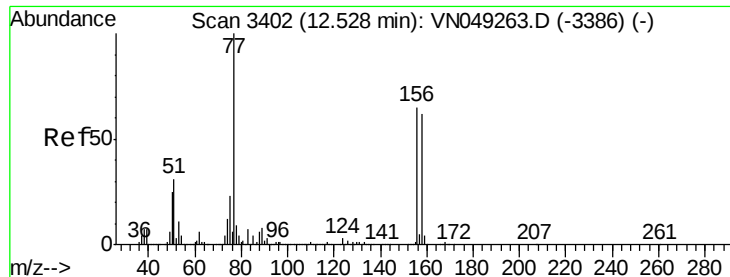
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 292491 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 0.0   | 0.0   | 0.0    |





#77

Bromobenzene

Concen: 18.840 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

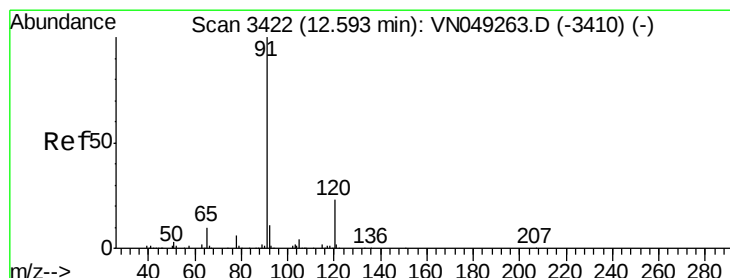
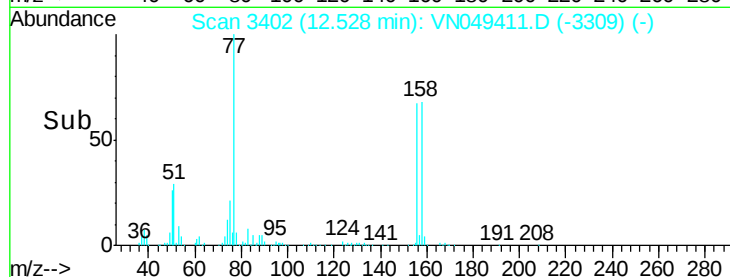
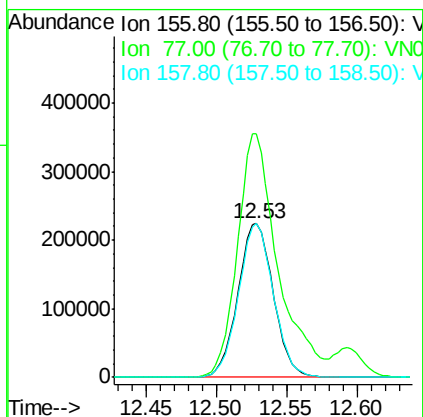
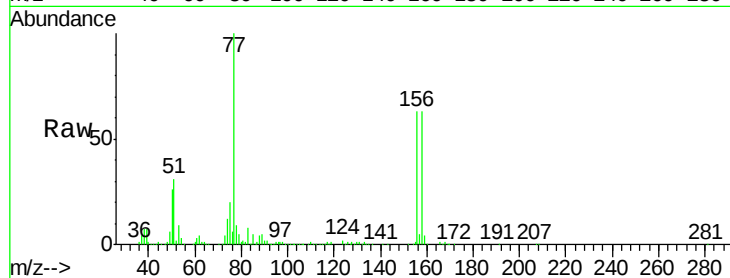
ClientSampleId :

VN0619WBS02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 394139 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 180.7 | 100.8 | 302.4  |
| 158       | 98.4  | 49.3  | 147.9  |

Manual Integrations  
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#78

n-propylbenzene

Concen: 19.683 ug/l

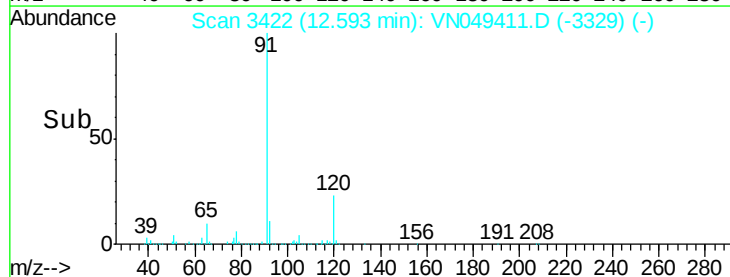
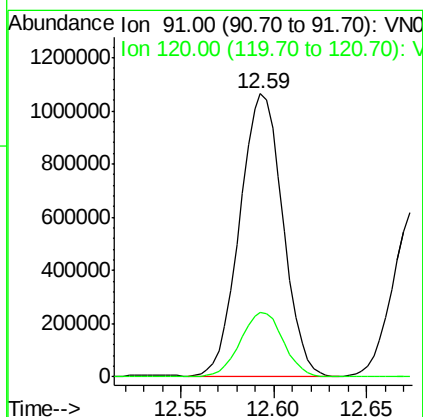
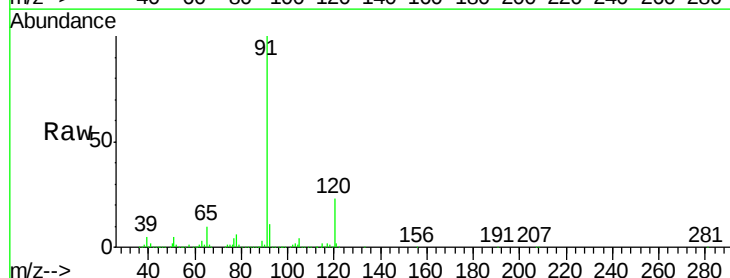
RT: 12.59 min Scan# 3422

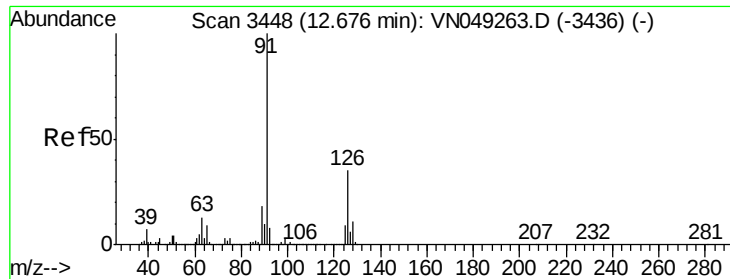
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1711734 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 120       | 23.0  | 11.2  | 33.5    |





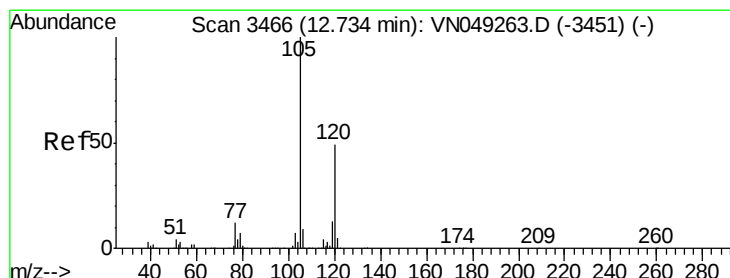
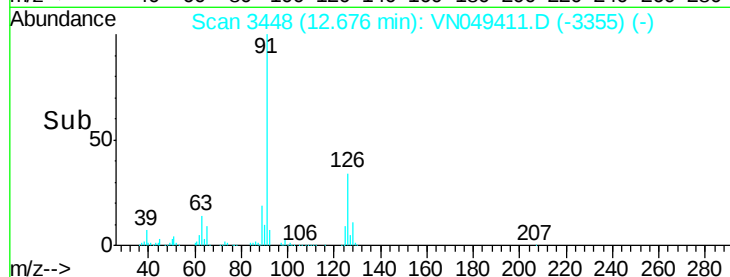
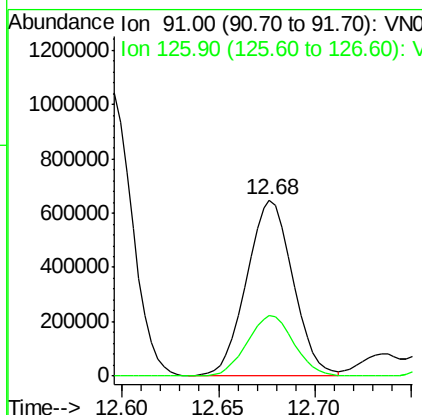
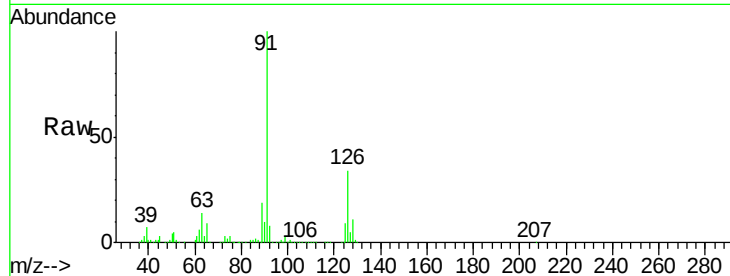
#79  
 2-Chlorotoluene  
 Concen: 19.459 ug/l  
 RT: 12.68 min Scan# 3448  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

Tot Ion: 91 Resp: 1072256  
 Ion Ratio Lower Upper  
 91 100  
 126 34.9 16.6 49.8

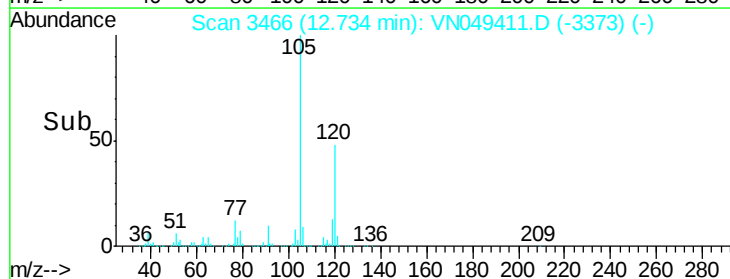
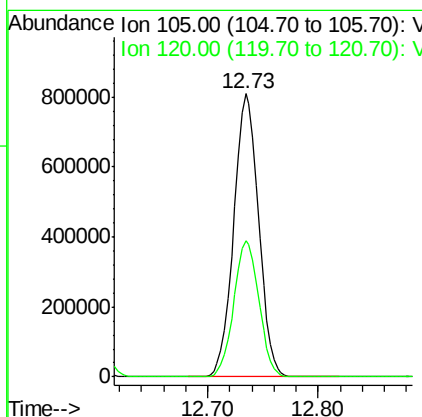
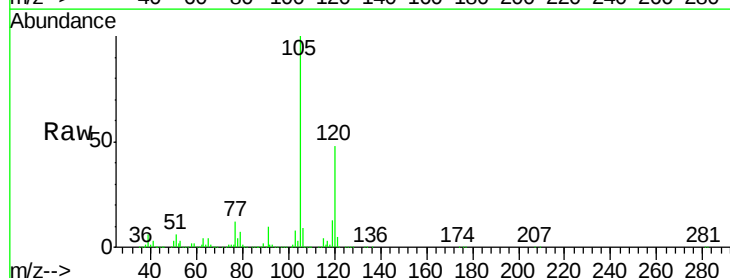
Manual Integrations  
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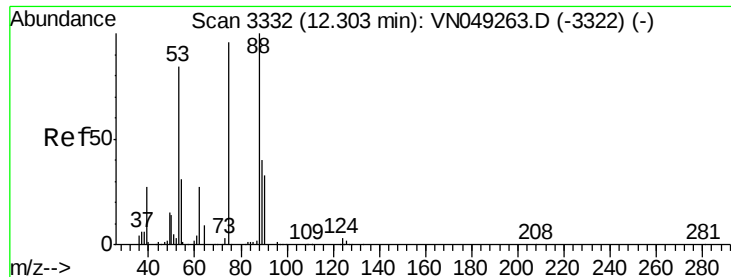
MMDadoda  
 6/20/2018 4:54:03 PM



#80  
 1,3,5-Trimethylbenzene  
 Concen: 20.248 ug/l  
 RT: 12.73 min Scan# 3466  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Tgt Ion: 105 Resp: 1260499  
 Ion Ratio Lower Upper  
 105 100  
 120 48.6 23.5 70.5





#81

trans-1,4-Dichloro-2-butene

Concen: 15.867 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

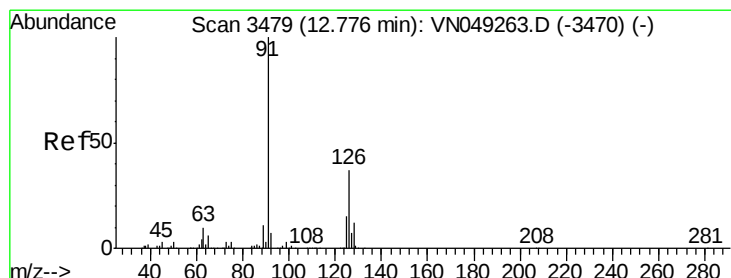
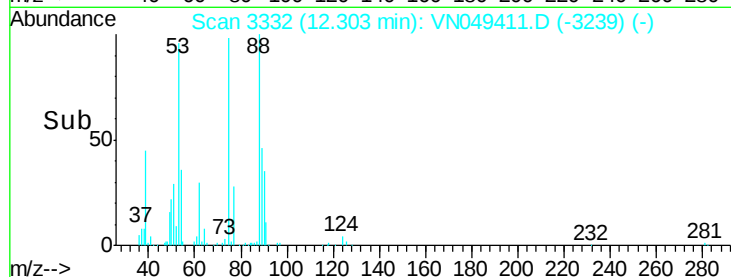
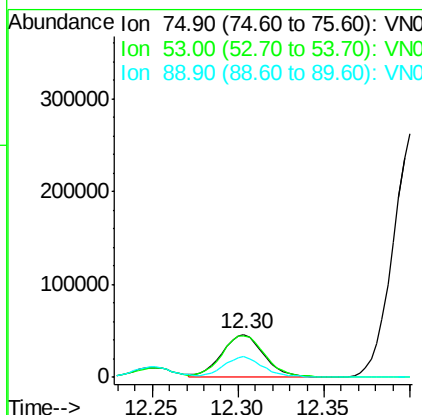
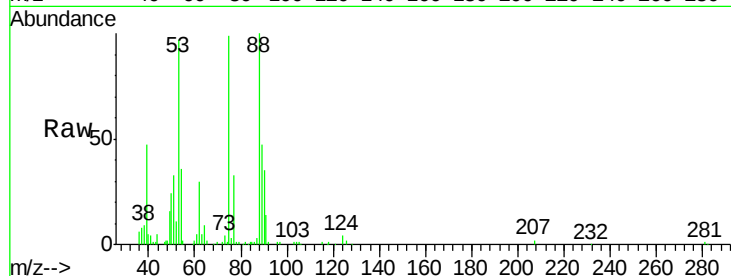
ClientSampleId :

VN0619WBS02

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 77270 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 103.0 | 82.7  | 124.1 |
| 89       | 46.5  | 36.5  | 54.7  |

Manual Integrations  
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6/20/2018 4:54:03 PM



#82

4-Chlorotoluene

Concen: 19.772 ug/l

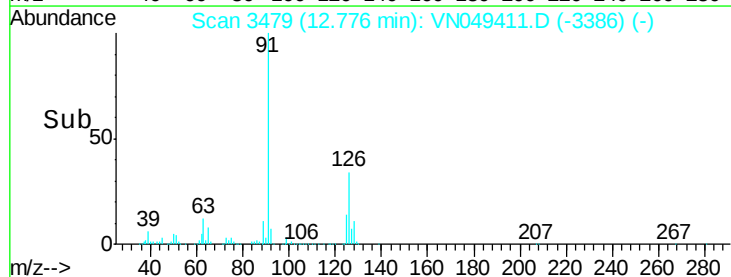
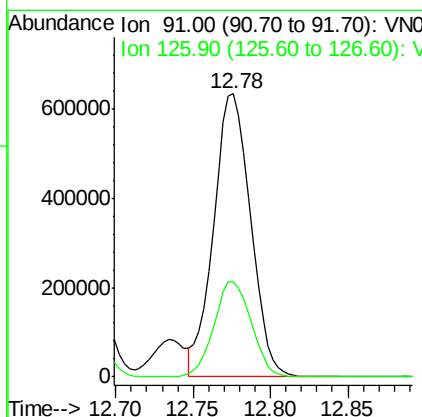
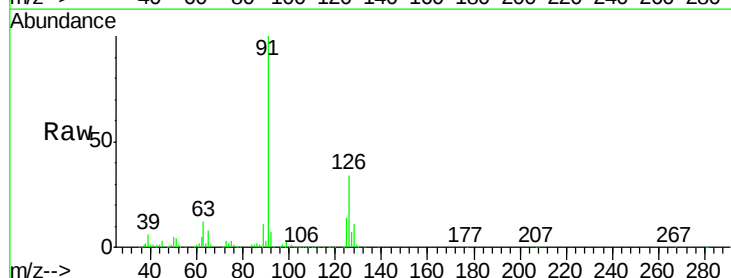
RT: 12.78 min Scan# 3479

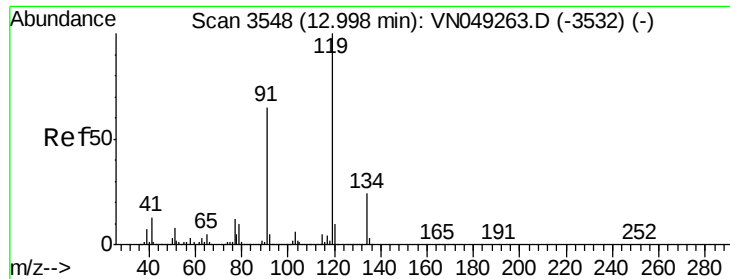
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 1051050 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 126      | 34.0  | 16.4  | 49.1    |





#83

tert-Butylbenzene

Concen: 19.203 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

ClientSampleId :

VN0619WBS02

Tot Ion:119 Resp: 1059089

Ion Ratio Lower Upper

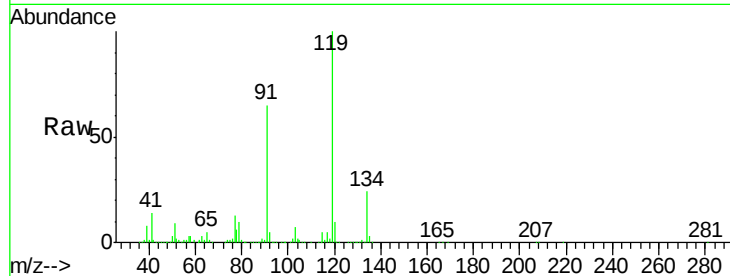
119 100

91 64.6 33.7 101.0

134 26.1 12.9 38.6

Manual Integrations  
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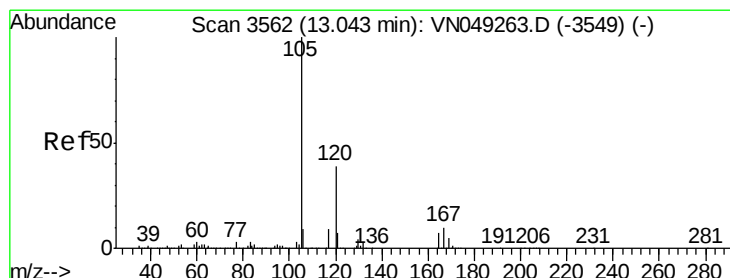
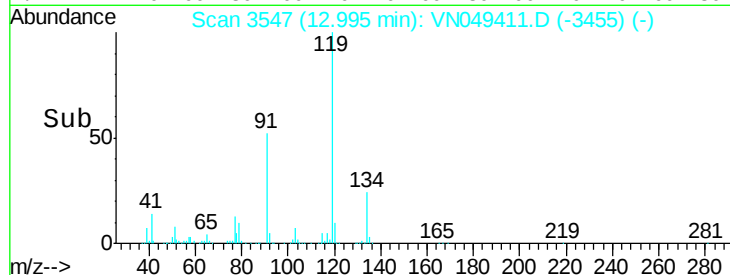
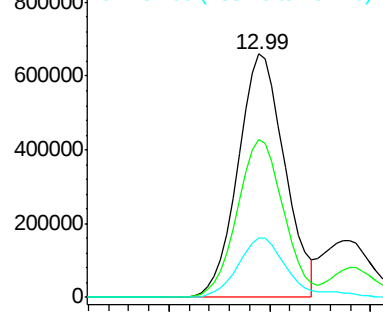
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.433 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN049411.D

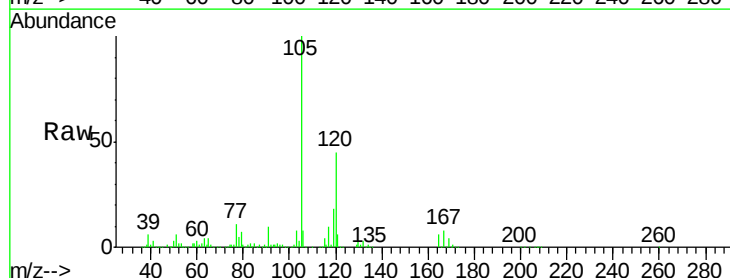
Acq: 20 Jun 2018 3:12

Tgt Ion:105 Resp: 1263633

Ion Ratio Lower Upper

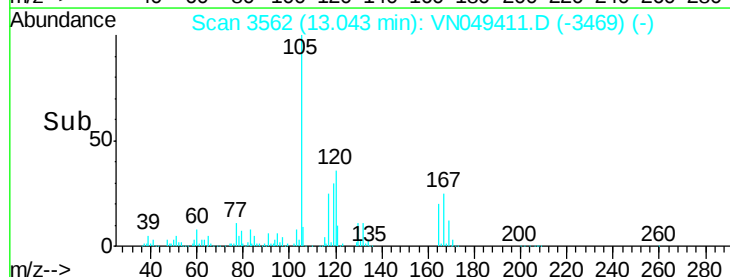
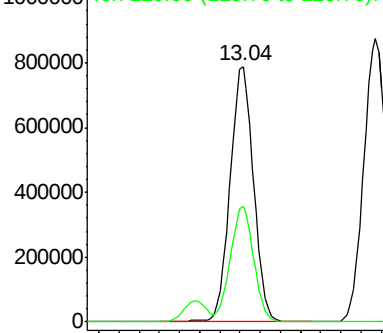
105 100

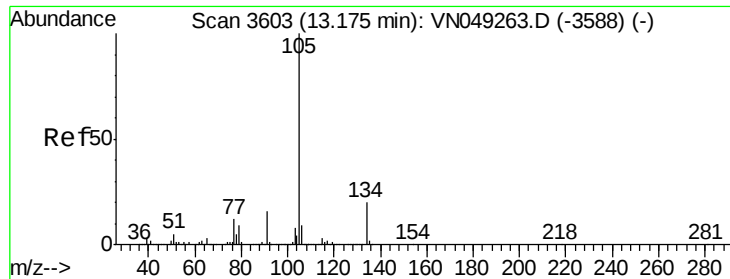
120 45.1 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





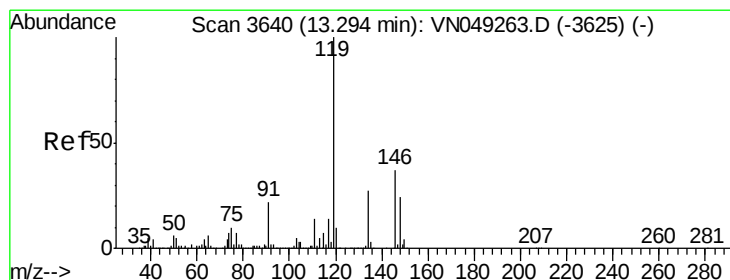
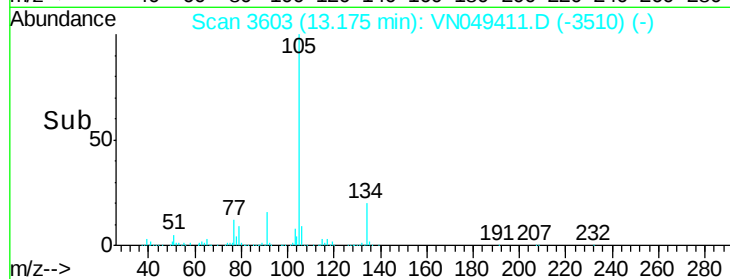
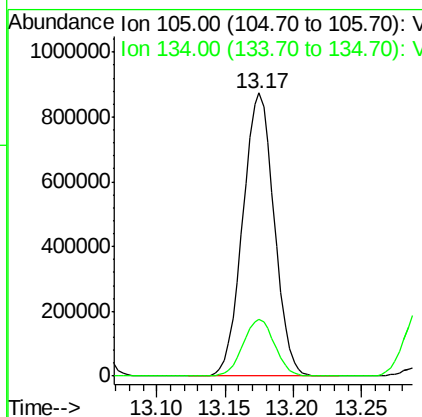
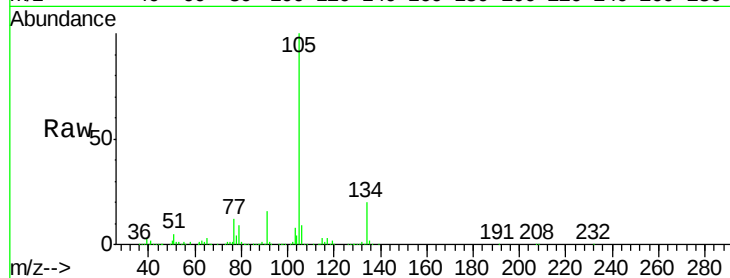
#85  
 sec-Butylbenzene  
 Concen: 18.979 ug/l  
 RT: 13.17 min Scan# 3603  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0619WBS02

Tot Ion:105 Resp: 1393187  
 Ion Ratio Lower Upper  
 105 100  
 134 20.2 9.8 29.3

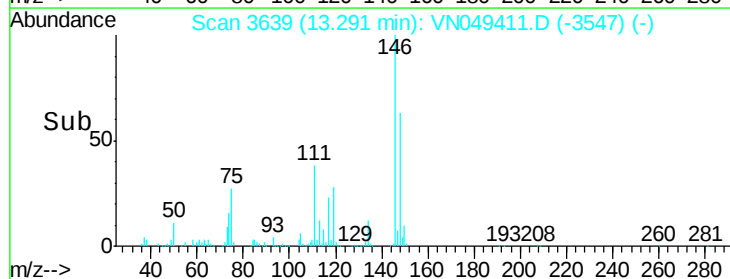
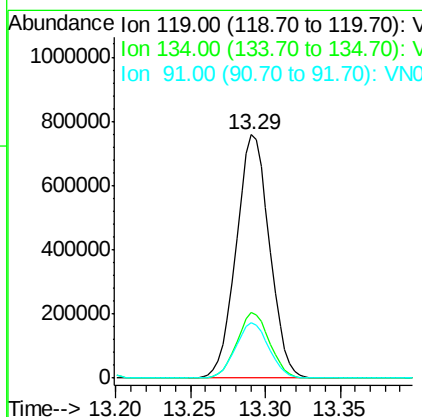
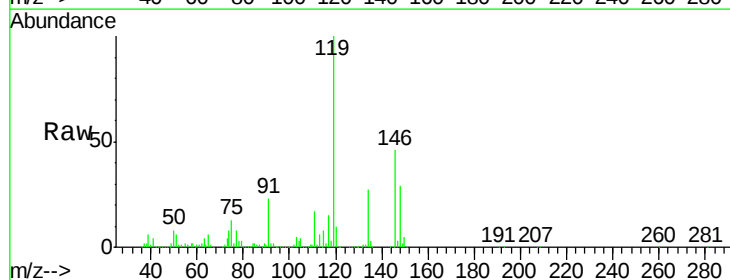
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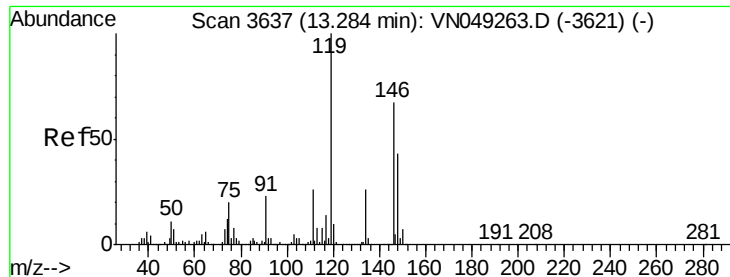
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#86  
 p-Isopropyltoluene  
 Concen: 19.072 ug/l  
 RT: 13.29 min Scan# 3639  
 Delta R.T. -0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Tgt Ion:119 Resp: 1169673  
 Ion Ratio Lower Upper  
 119 100  
 134 26.6 12.9 38.6  
 91 22.6 12.1 36.3





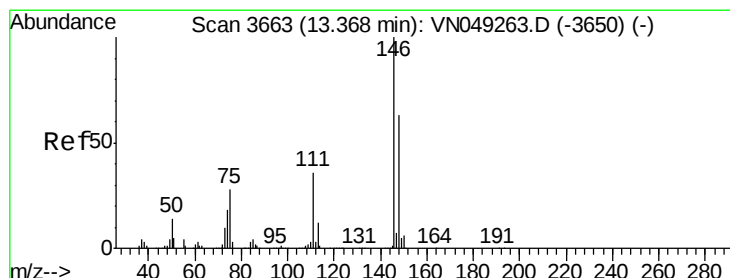
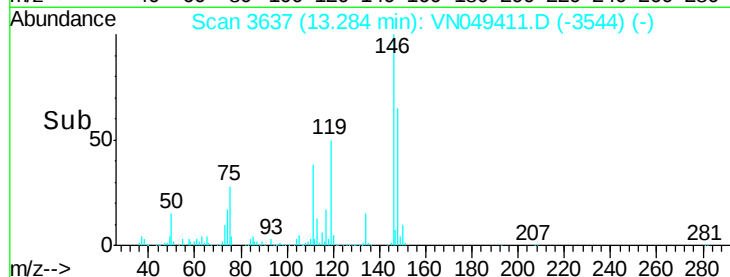
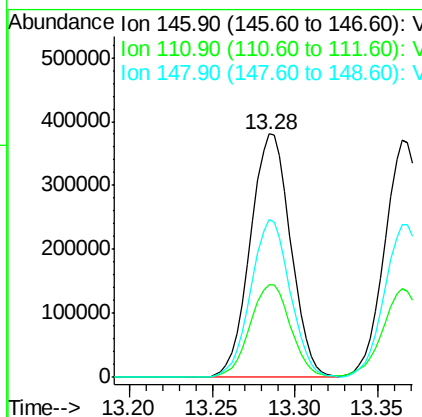
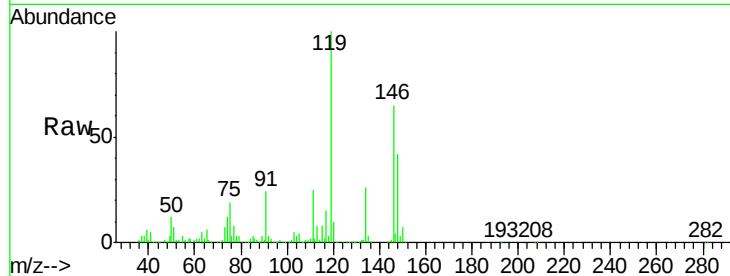
#87  
 1,3-Dichlorobenzene  
 Concen: 18.718 ug/l  
 RT: 13.28 min Scan# 3637  
 Delta R.T. 0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.4  | 19.9  | 59.6  |
| 148     | 63.1  | 32.1  | 96.5  |

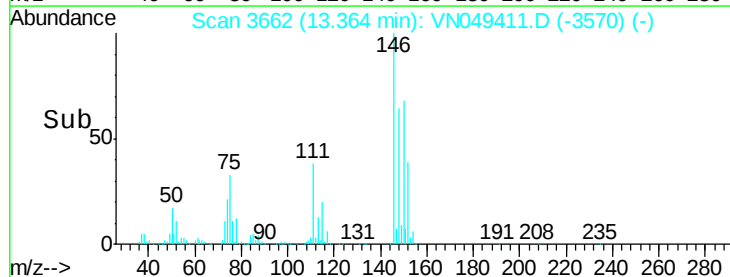
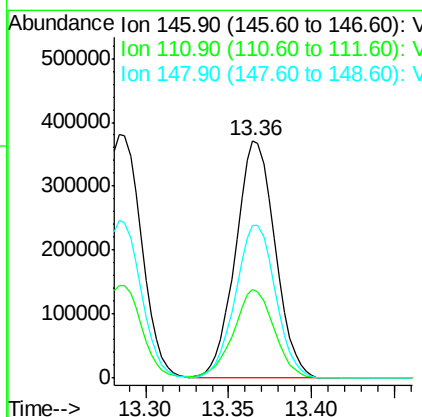
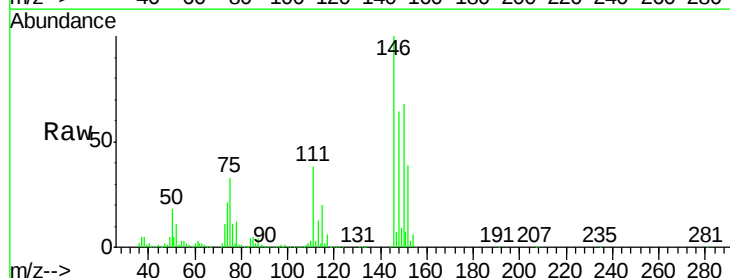
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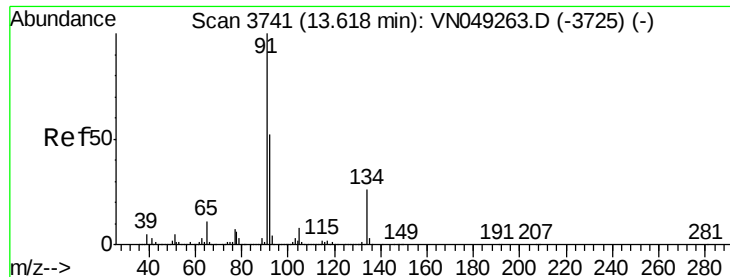
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#88  
 1,4-Dichlorobenzene  
 Concen: 18.041 ug/l  
 RT: 13.36 min Scan# 3662  
 Delta R.T. -0.00 min  
 Lab File: VN049411.D  
 Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.4  | 19.1  | 57.1  |
| 148     | 65.5  | 32.0  | 96.2  |





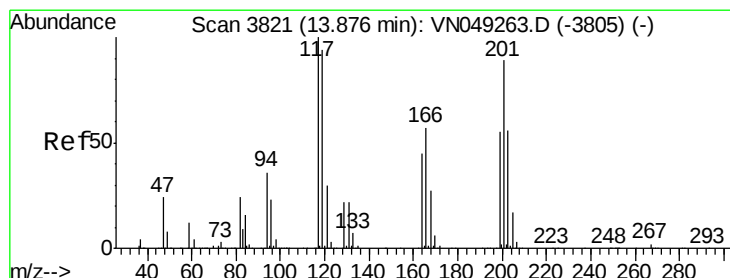
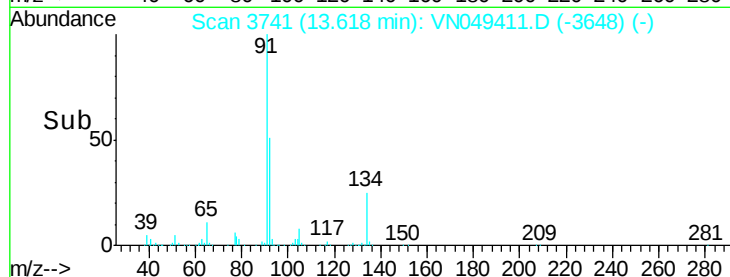
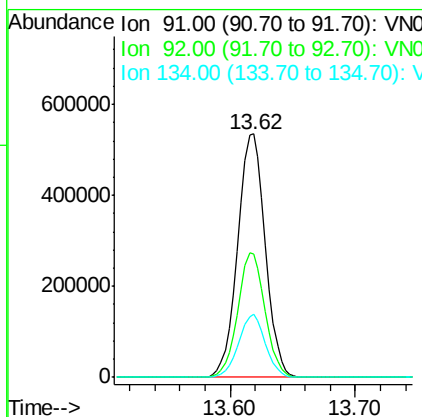
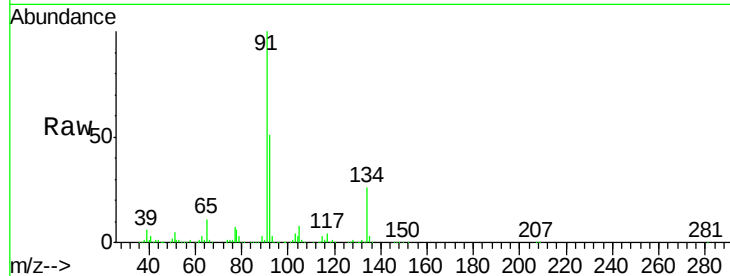
#89  
n-Butylbenzene  
Concen: 17.023 ug/l  
RT: 13.62 min Scan# 3741  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0619WBS02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 50.6  | 25.1  | 75.4  |
| 134     | 25.2  | 12.0  | 36.0  |

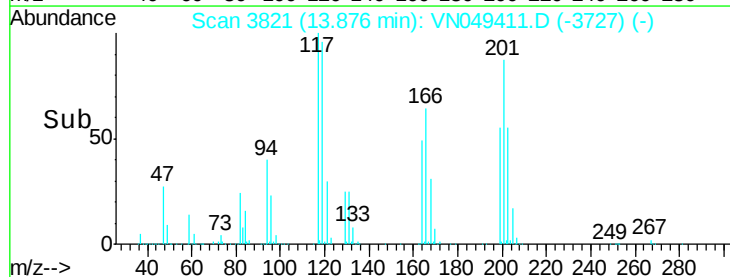
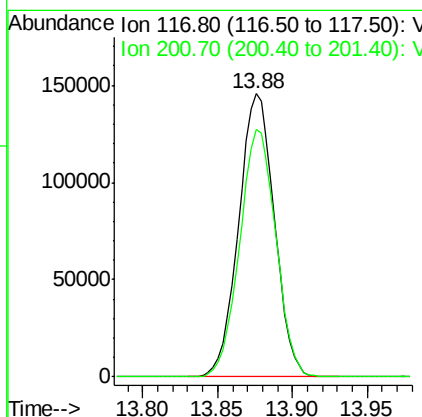
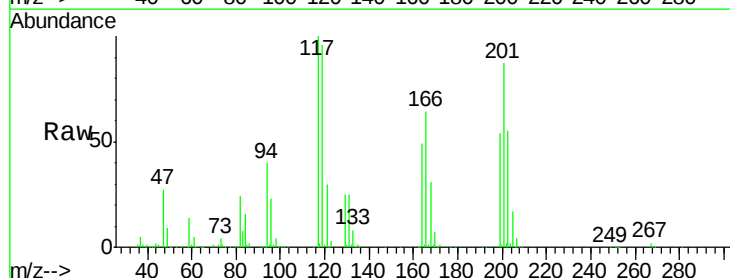
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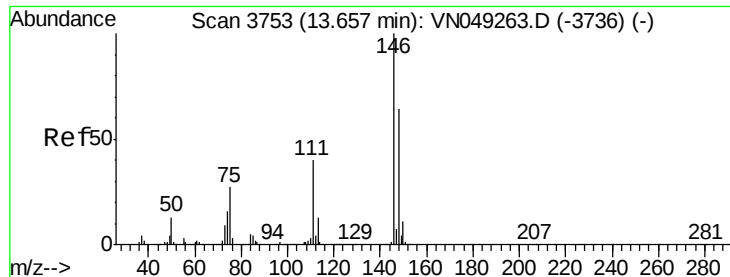
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#90  
Hexachloroethane  
Concen: 19.873 ug/l  
RT: 13.88 min Scan# 3821  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 88.1  | 40.1  | 120.2 |





#91

1,2-Dichlorobenzene

Concen: 19.079 ug/l

RT: 13.66 min Scan# 3753

Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

Instrument :

MSVOA\_N

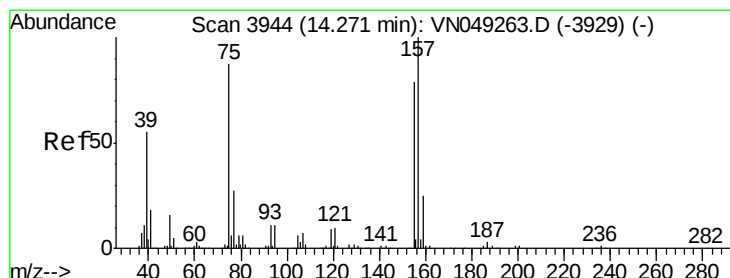
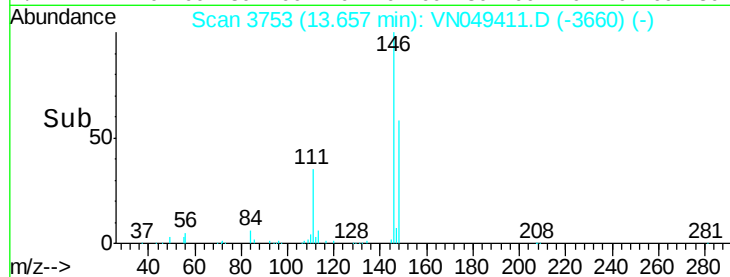
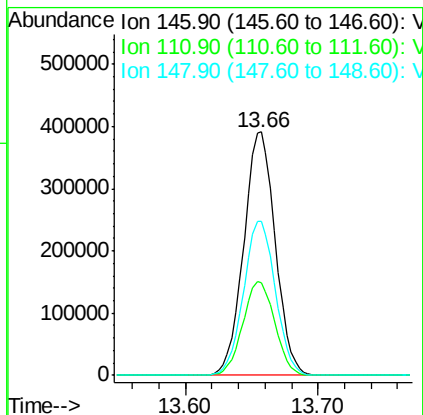
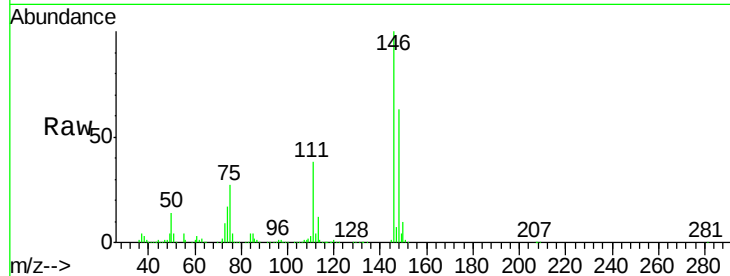
ClientSampleId :

VN0619WBS02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 643998 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 39.2  | 20.8  | 62.2   |
| 148       | 64.2  | 32.0  | 96.2   |

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#92

1,2-Dibromo-3-Chloropropane

Concen: 17.839 ug/l

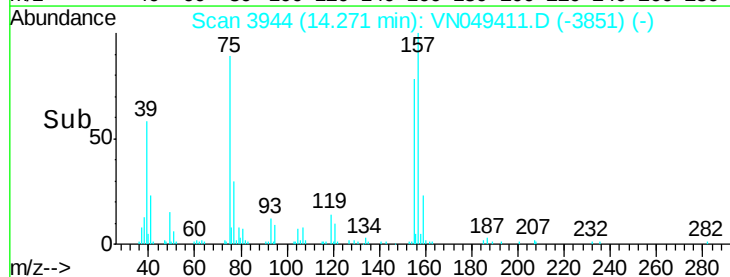
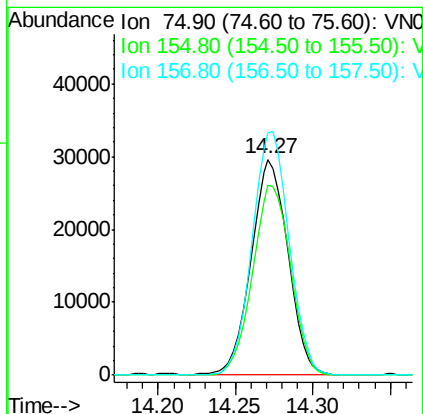
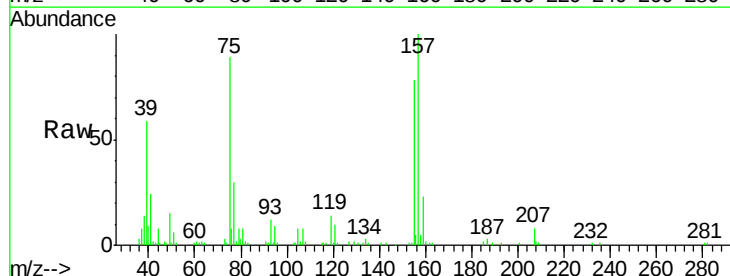
RT: 14.27 min Scan# 3944

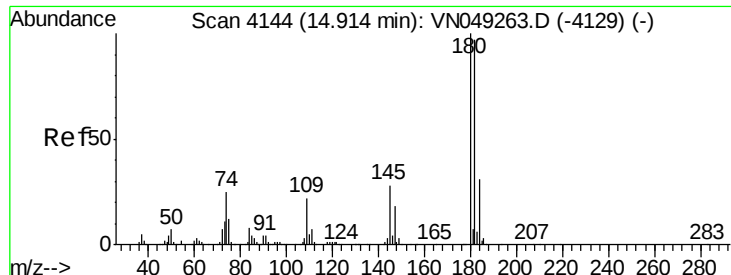
Delta R.T. 0.00 min

Lab File: VN049411.D

Acq: 20 Jun 2018 3:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 49190 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 90.3  | 38.8  | 116.3 |
| 157       | 113.2 | 51.0  | 153.1 |





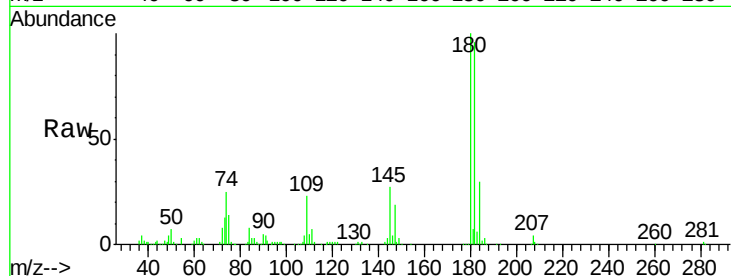
#93  
1,2,4-Trichlorobenzene  
Concen: 15.426 ug/l  
RT: 14.91 min Scan# 4143  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

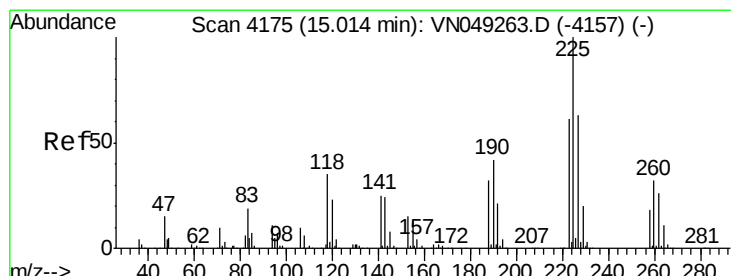
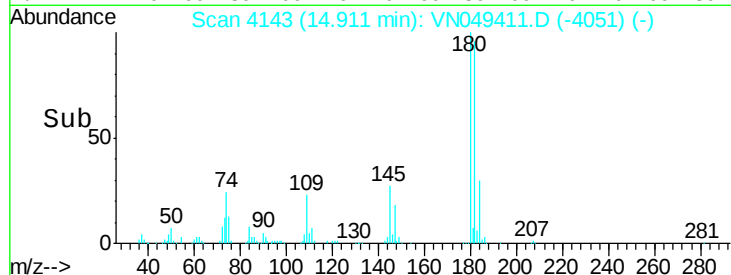
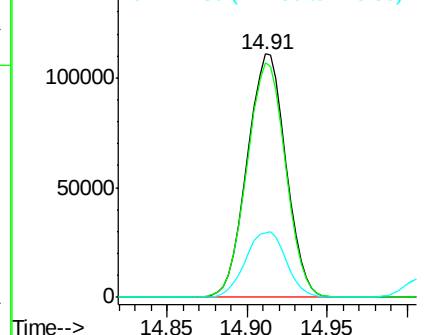
| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 180     | 100   |            |            |
| 182     | 96.3  | 46.9       | 140.8      |
| 145     | 28.4  | 14.7       | 44.1       |

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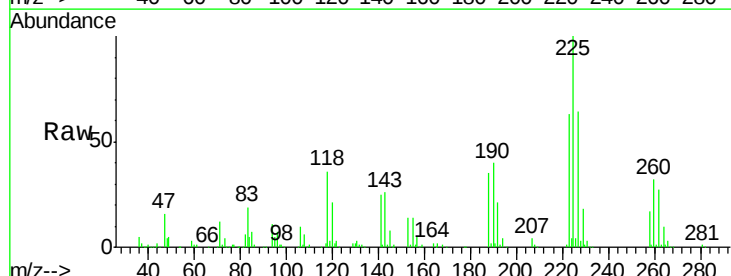


Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.80 (144.50 to 145.50): V

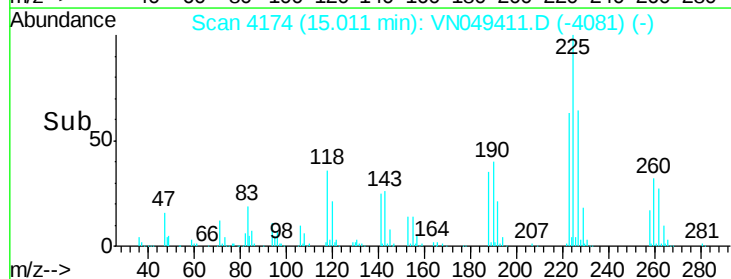
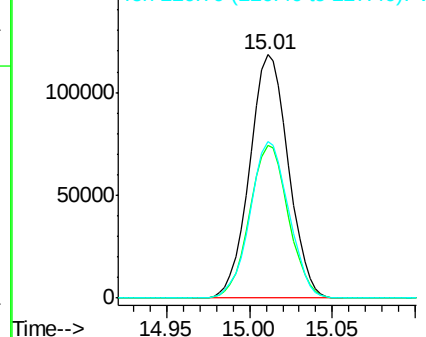


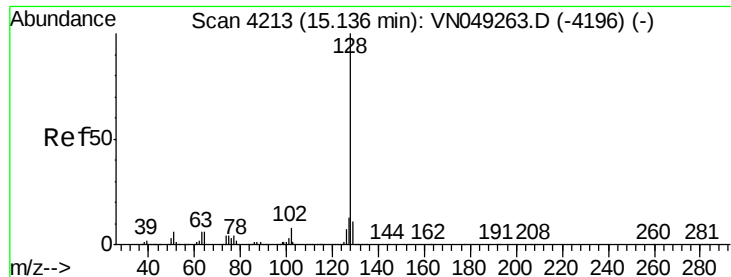
#94  
Hexachlorobutadiene  
Concen: 17.687 ug/l  
RT: 15.01 min Scan# 4174  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 225     | 100   |            |            |
| 223     | 62.9  | 32.1       | 96.3       |
| 227     | 64.3  | 31.8       | 95.3       |



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V





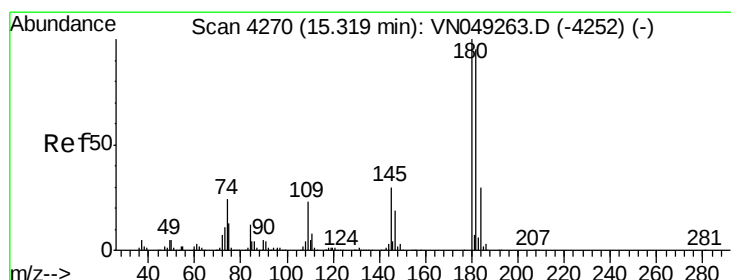
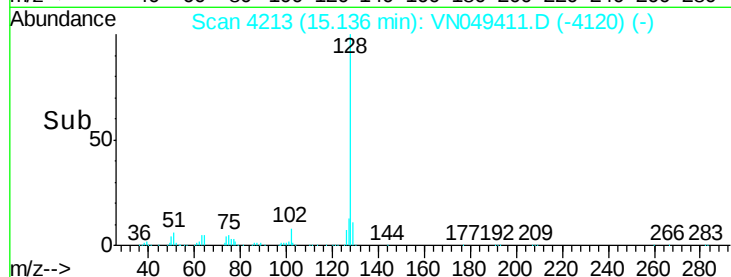
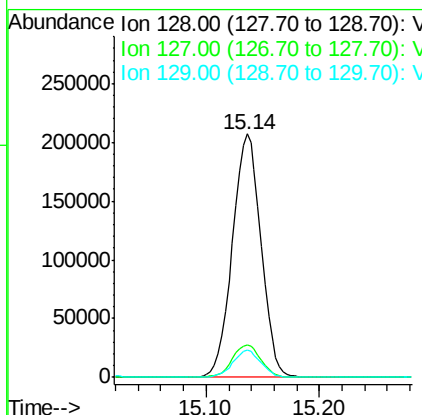
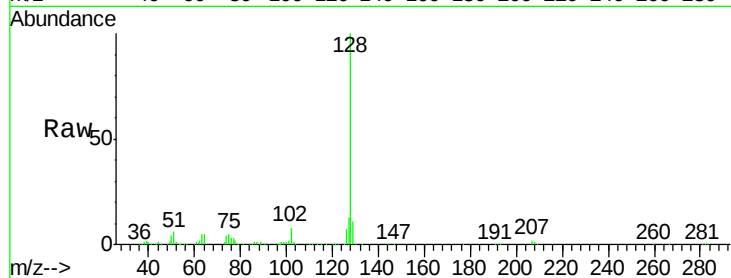
#95  
Naphthalene  
Concen: 16.080 ug/l  
RT: 15.14 min Scan# 4213  
Delta R.T. 0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0619WBS02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 364519 |       |       |
| 127     | 13.4  | 10.6   | 16.0  |       |
| 129     | 10.9  | 8.5    | 12.7  |       |

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#96  
1,2,3-Trichlorobenzene  
Concen: 16.202 ug/l  
RT: 15.32 min Scan# 4269  
Delta R.T. -0.00 min  
Lab File: VN049411.D  
Acq: 20 Jun 2018 3:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 207060 |       |       |
| 182     | 95.8  | 47.3   | 141.8 |       |
| 145     | 29.4  | 15.6   | 46.7  |       |

