

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\  
 Data File : VN050954.D  
 Acq On : 30 Aug 2018 11:43  
 Operator : MD\SY  
 Sample : VN0830WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0830WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/31/2018 11:32:22 AM

Quant Time: Aug 31 02:33:32 2018  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 584247   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 829316   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 742631   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 358097   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 349033   | 49.62 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.24%  |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 335761   | 50.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.78% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1229753  | 49.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.70%  |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 384801   | 46.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.88%  |      |

| Target Compounds              |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 153158  | 19.59  | ug/l   | 99     |
| 3) Chloromethane              | 2.06 | 50  | 169250  | 17.55  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.18 | 62  | 170334  | 18.65  | ug/l   | 100    |
| 5) Bromomethane               | 2.56 | 94  | 96692   | 17.94  | ug/l   | 99     |
| 6) Chloroethane               | 2.70 | 64  | 99129   | 18.78  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 226744  | 19.38  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 77654   | 19.52  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 142200  | 19.46  | ug/l   | 99     |
| 10) Methyl Iodide             | 3.95 | 142 | 103039  | 20.37  | ug/l # | 95     |
| 11) Tert butyl alcohol        | 4.80 | 59  | 47760   | 106.64 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 3.74 | 96  | 126431  | 19.27  | ug/l   | 97     |
| 13) Acrolein                  | 3.62 | 56  | 14457   | 69.23  | ug/l   | 96     |
| 14) Allyl chloride            | 4.32 | 41  | 192948  | 18.87  | ug/l   | 97     |
| 15) Acrylonitrile             | 4.99 | 53  | 238333  | 104.71 | ug/l   | 98     |
| 16) Acetone                   | 3.82 | 43  | 177852  | 102.62 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.05 | 76  | 363743  | 16.54  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.33 | 43  | 150622  | 22.68  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 337354  | 20.44  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.55 | 84  | 151033  | 19.05  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.05 | 96  | 134560  | 18.96  | ug/l   | 99     |
| 22) Diisopropyl ether         | 5.96 | 45  | 420440  | 20.63  | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.90 | 43  | 1252951 | 95.48  | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 256237  | 19.59  | ug/l   | 100    |
| 25) 2-Butanone                | 6.84 | 43  | 261730  | 92.34  | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 201691  | 19.19  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 150289  | 19.64  | ug/l   | 100    |
| 28) Bromochloromethane        | 7.20 | 49  | 107916  | 19.41  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.22 | 42  | 171559  | 105.57 | ug/l   | 99     |
| 30) Chloroform                | 7.37 | 83  | 258890  | 19.98  | ug/l   | 98     |
| 31) Cyclohexane               | 7.66 | 56  | 212692  | 18.19  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 216835  | 19.49  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.80 | 75  | 185936  | 19.00  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.94 | 43  | 116857  | 20.79  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.78 | 117 | 194651  | 19.68  | ug/l   | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\  
 Data File : VN050954.D  
 Acq On : 30 Aug 2018 11:43  
 Operator : MD\SY  
 Sample : VN0830WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0830WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/31/2018 11:32:22 AM

Quant Time: Aug 31 02:33:32 2018  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 193020   | 18.23  | ug/l   | 99       |
| 40) Benzene                    | 8.04  | 78   | 586060   | 19.86  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.18  | 41   | 54184    | 17.81  | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 178337   | 20.21  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 201138   | 20.81  | ug/l   | 99       |
| 44) Trichloroethene            | 8.84  | 130  | 154038   | 19.79  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 154345   | 19.90  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 92645    | 20.33  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.41  | 83   | 195711   | 20.50  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.20  | 41   | 101481   | 20.60  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 28646    | 426.59 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 583799   | 101.21 | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 358860   | 20.53  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 183391   | 19.30  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 217237   | 19.97  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 133501   | 20.58  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 150712   | 19.37  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 219818   | 20.53  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 300189   | 89.74  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 375794   | 97.87  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.90 | 129  | 148898   | 20.50  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 129385   | 20.62  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.63 | 164  | 137759   | 19.53  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.44 | 112  | 382458   | 19.70  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 147704   | 20.80  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 626406   | 19.85  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.62 | 106  | 491260   | 41.01  | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 232918   | 20.23  | ug/l   | 99       |
| 70) Styrene                    | 11.97 | 104  | 368193   | 18.95  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 102600   | 21.01  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 619258   | 20.88  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 147580   | 19.81  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 167030   | 22.74  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 142480m  | 22.72  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 162033   | 20.11  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.59 | 91   | 677070   | 20.44  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 422595   | 20.48  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 511283   | 21.37  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 37688    | 20.31  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 410499   | 20.15  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.99 | 119  | 428744   | 20.69  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 508829   | 21.14  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 562152   | 20.70  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 479196   | 20.71  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 266679   | 19.50  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 253651   | 18.85  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 345418   | 18.67  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 92078    | 20.99  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 264466   | 20.04  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 22509    | 21.14  | ug/l   | 94       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\  
Data File : VN050954.D  
Acq On : 30 Aug 2018 11:43  
Operator : MD\SY  
Sample : VN0830WBS01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

Manual Integrations  
APPROVED

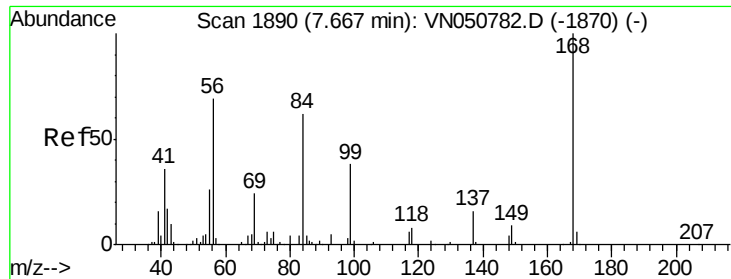
MMDadoda  
8/31/2018 11:32:22 AM

Quant Time: Aug 31 02:33:32 2018  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082118W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 05:38:12 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 97876    | 17.18 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 81291    | 20.12 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 182086   | 16.75 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 101176   | 17.98 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion:168 Resp: 584247

Ion Ratio Lower Upper

168 100

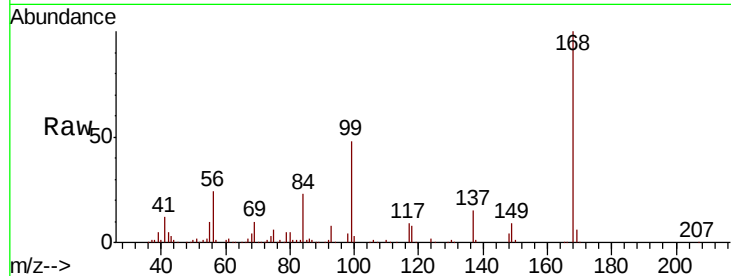
99 47.7 39.6 59.4

Manual Integrations

APPROVED

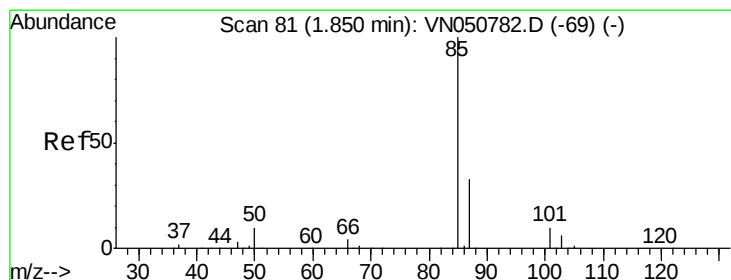
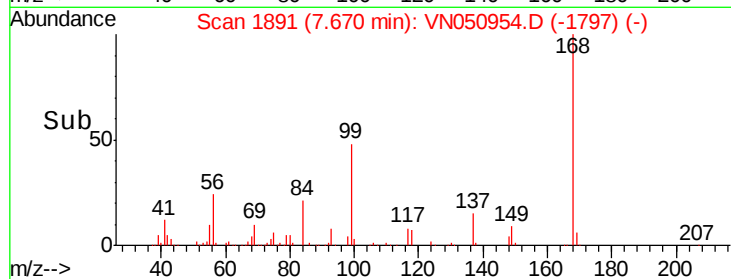
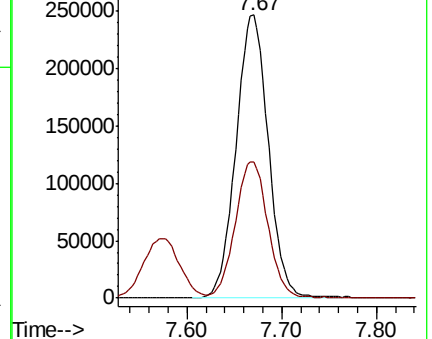
MMDadoda

8/31/2018 11:32:22 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.59 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050954.D

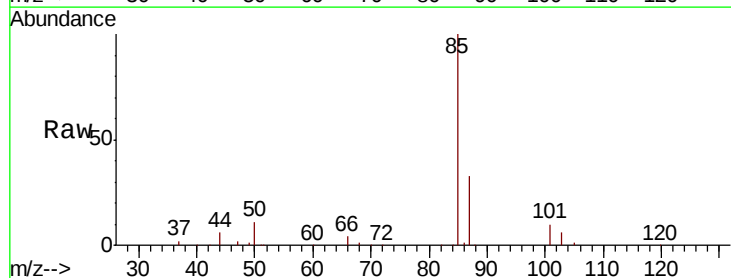
Acq: 30 Aug 2018 11:43

Tgt Ion: 85 Resp: 153158

Ion Ratio Lower Upper

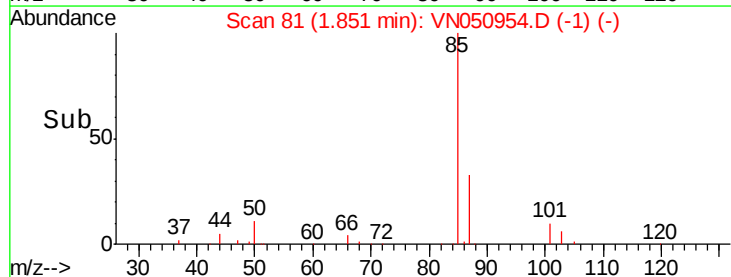
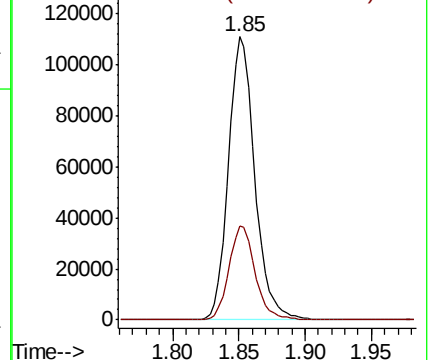
85 100

87 33.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 17.55 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampleId :

VN0830WBS01

Tot Ion: 50 Resp: 169250

Ion Ratio Lower Upper

50 100

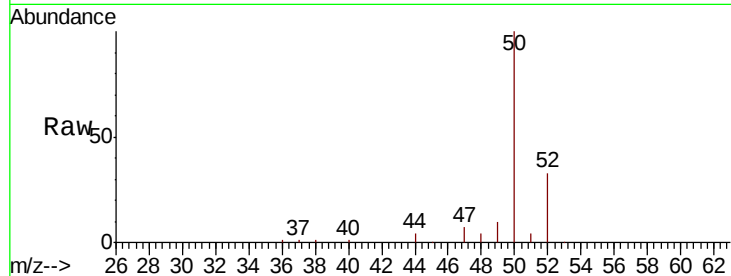
52 32.6 26.3 39.5

Manual Integrations

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8/31/2018 11:32:22 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

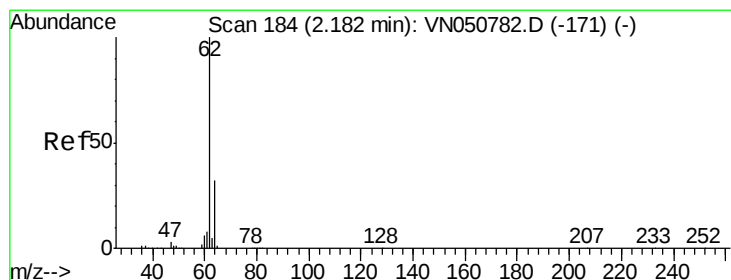
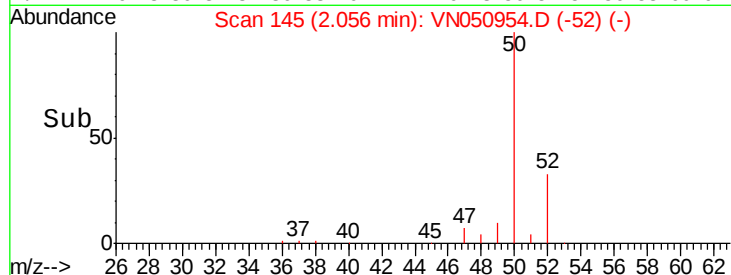
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 18.65 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050954.D

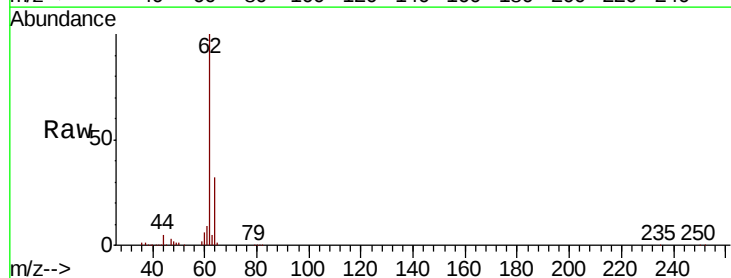
Acq: 30 Aug 2018 11:43

Tgt Ion: 62 Resp: 170334

Ion Ratio Lower Upper

62 100

64 31.9 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

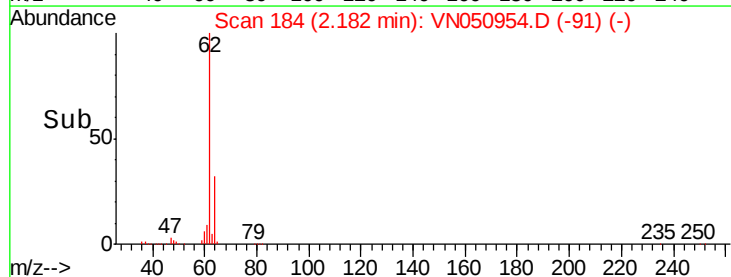
2.18

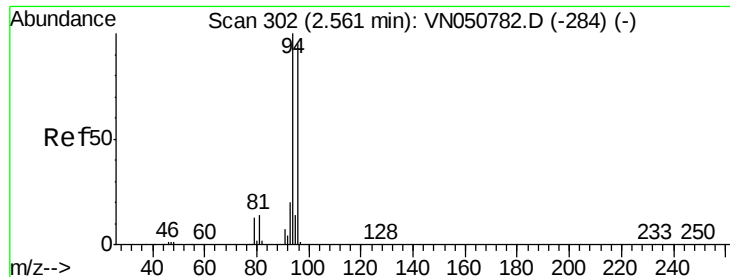
100000

50000

0

Time-->





#5

Bromomethane

Concen: 17.94 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion: 94 Resp: 96692

Ion Ratio Lower Upper

94 100

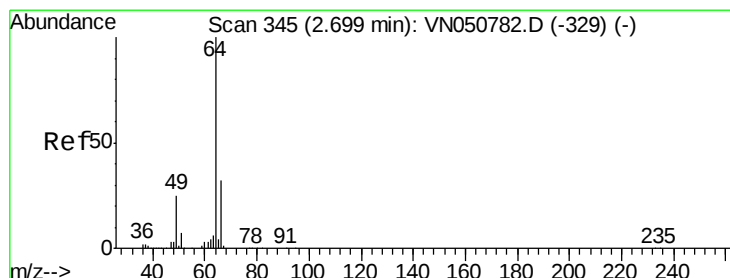
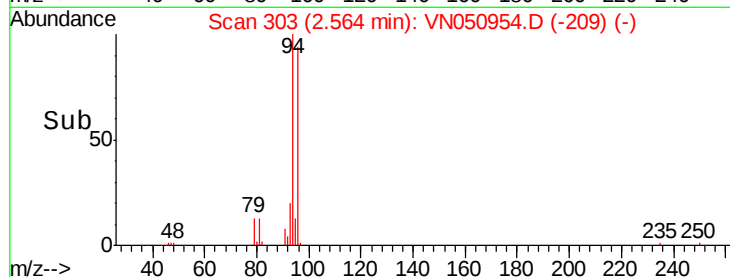
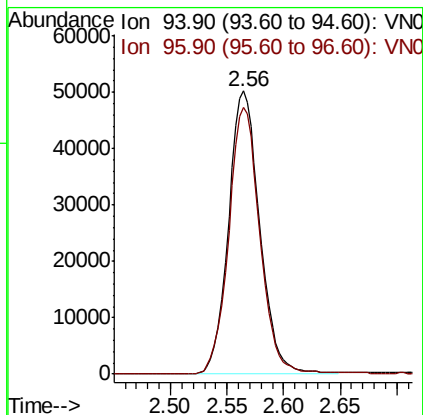
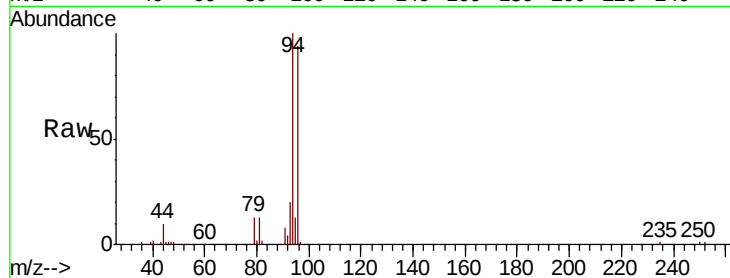
96 94.0 76.2 114.2

Manual Integrations

APPROVED

MMDadoda

8/31/2018 11:32:22 AM



#6

Chloroethane

Concen: 18.78 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050954.D

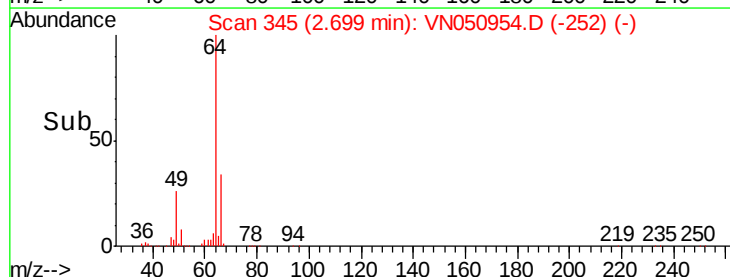
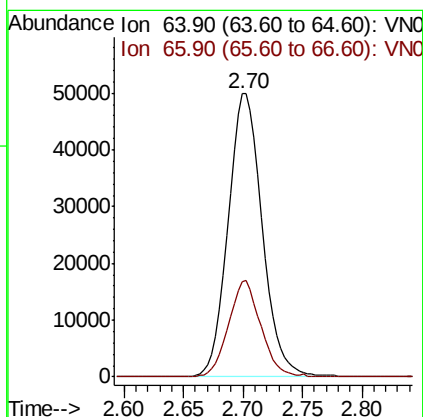
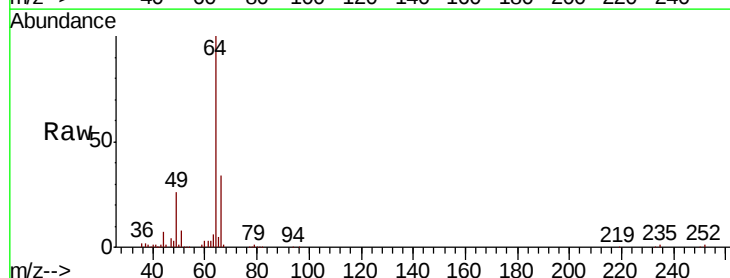
Acq: 30 Aug 2018 11:43

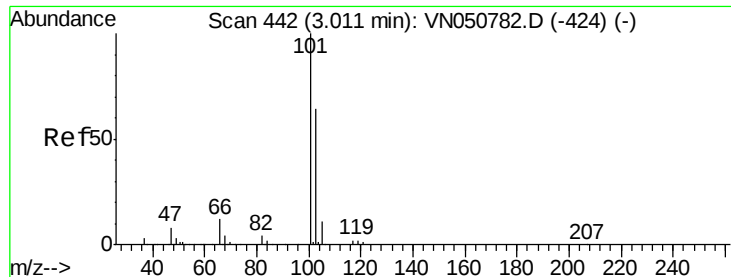
Tgt Ion: 64 Resp: 99129

Ion Ratio Lower Upper

64 100

66 33.7 25.3 37.9





#7

Trichlorofluoromethane

Concen: 19.38 ug/l

RT: 3.01 min Scan# 442

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampleId :

VN0830WBS01

Tot Ion:101 Resp: 226744

Ion Ratio Lower Upper

101 100

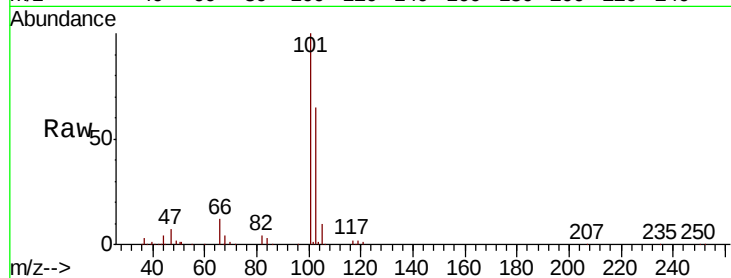
103 65.3 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

8/31/2018 11:32:22 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

120000

100000

80000

60000

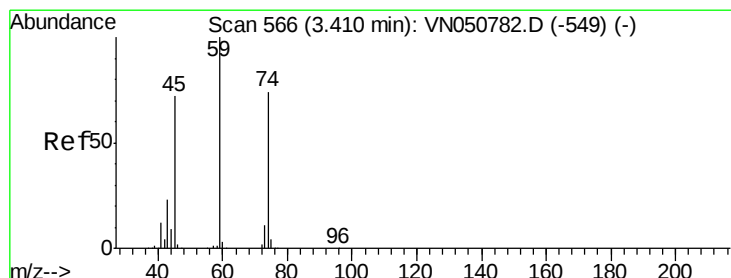
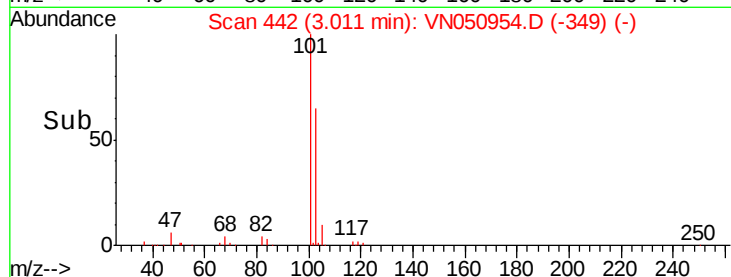
40000

20000

0

Time-->

2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 19.52 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050954.D

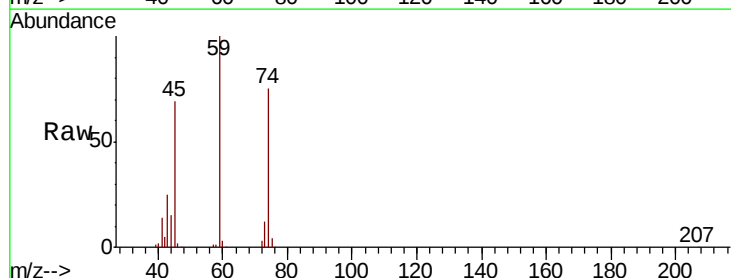
Acq: 30 Aug 2018 11:43

Tgt Ion: 74 Resp: 77654

Ion Ratio Lower Upper

74 100

45 95.8 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

40000

30000

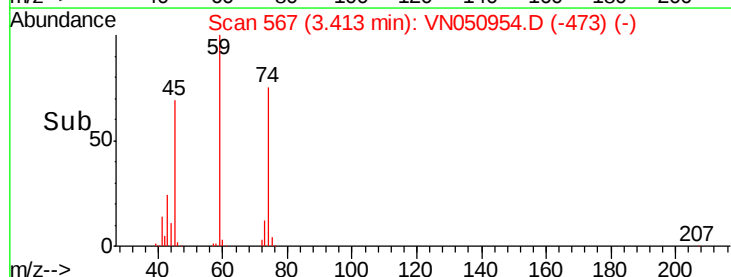
20000

10000

0

Time-->

3.30 3.35 3.40 3.45 3.50





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.46 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

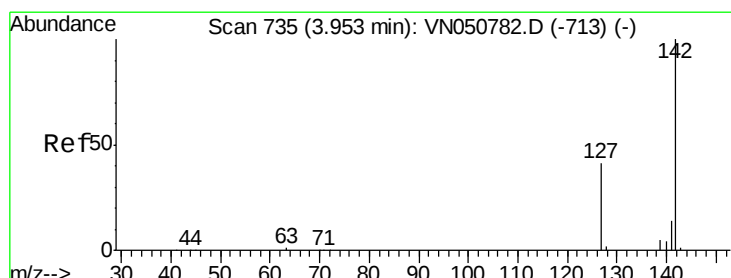
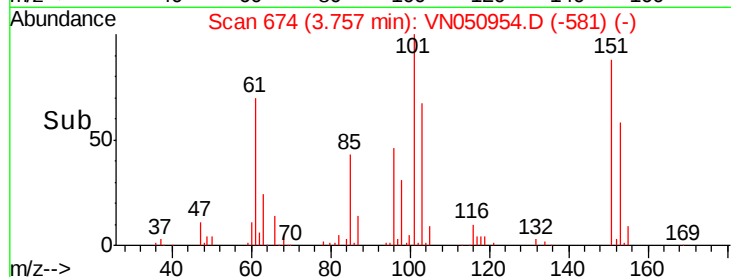
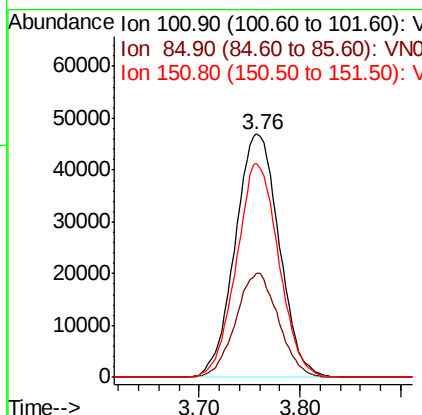
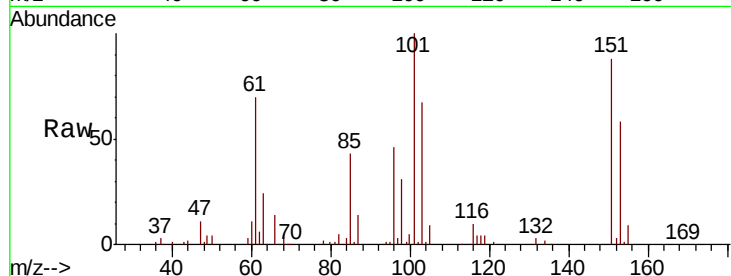
ClientSampleId :

VN0830WBS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 142200 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 41.4  | 33.7  | 50.5   |
| 151       | 84.7  | 67.4  | 101.2  |

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#10

Methyl Iodide

Concen: 20.37 ug/l

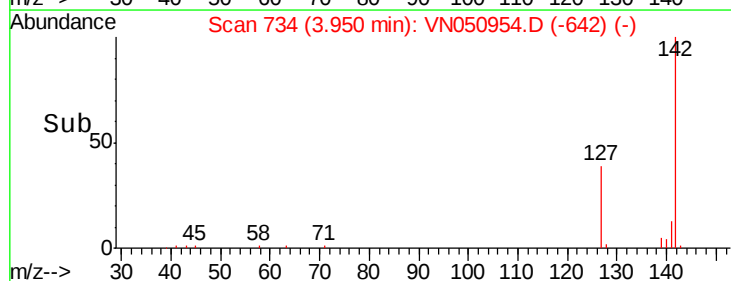
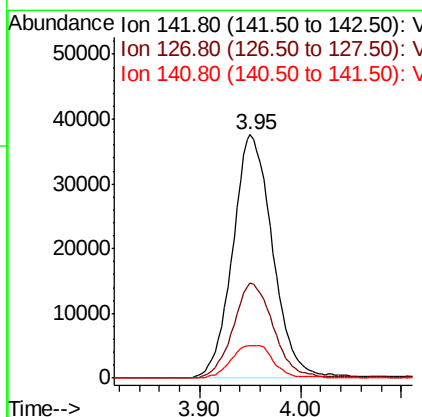
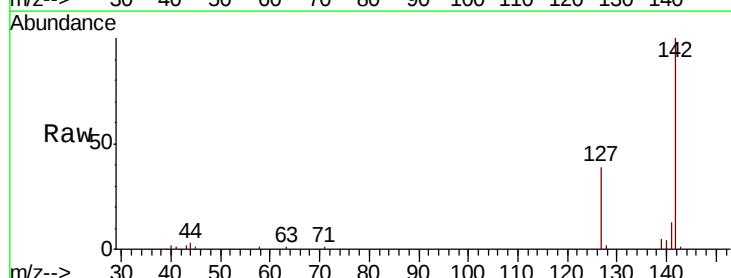
RT: 3.95 min Scan# 734

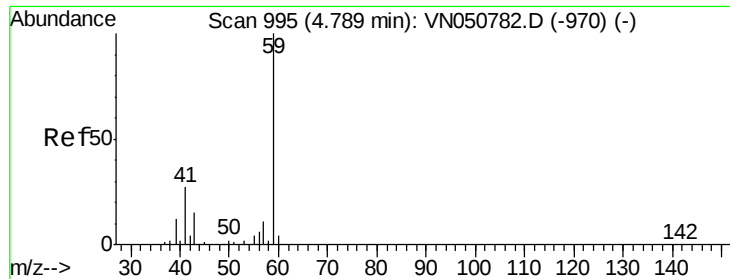
Delta R.T. -0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 103039 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 39.3  | 31.7  | 47.5   |
| 141       | 7.8   | 11.4  | 17.0#  |





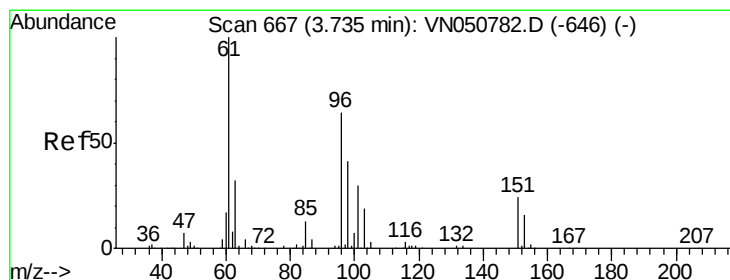
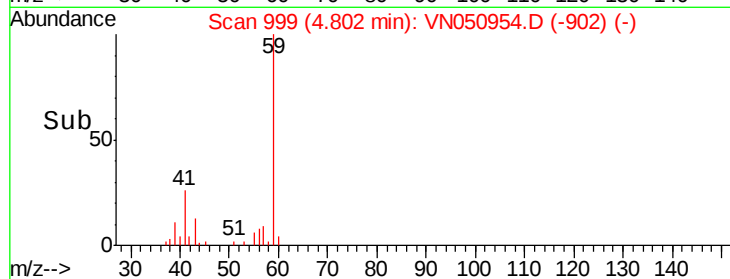
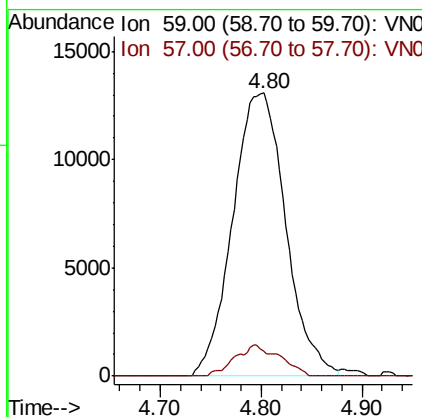
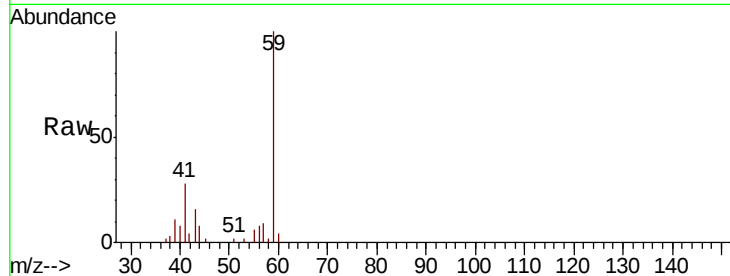
#11  
Tert butyl alcohol  
Concen: 106.64 ug/l  
RT: 4.80 min Scan# 999  
Delta R.T. 0.01 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 9.4   | 8.3   | 12.5  |

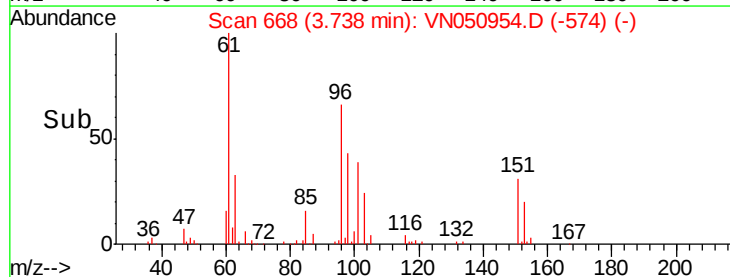
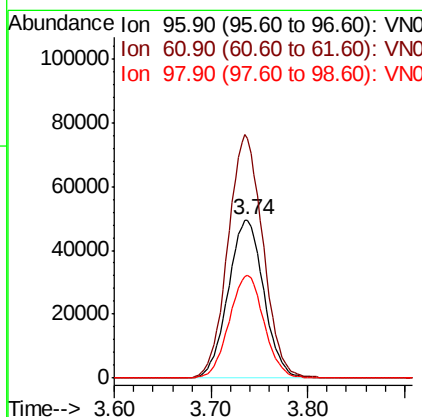
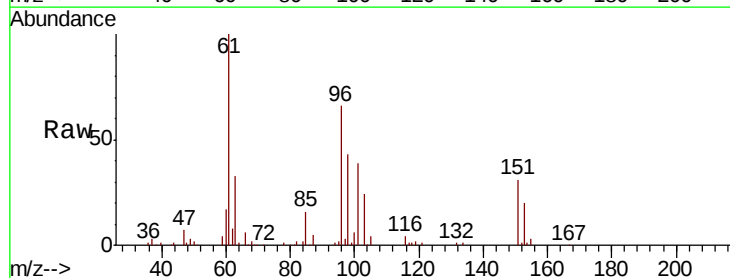
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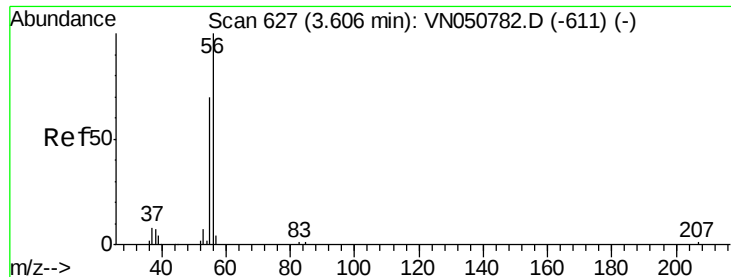
MMDadoda  
8/31/2018 11:32:22 AM



#12  
1,1-Dichloroethene  
Concen: 19.27 ug/l  
RT: 3.74 min Scan# 668  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 151.8 | 124.9 | 187.3 |
| 98      | 65.0  | 51.1  | 76.7  |





#13

Acrolein

Concen: 69.23 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion: 56 Resp: 14457

Ion Ratio Lower Upper

56 100

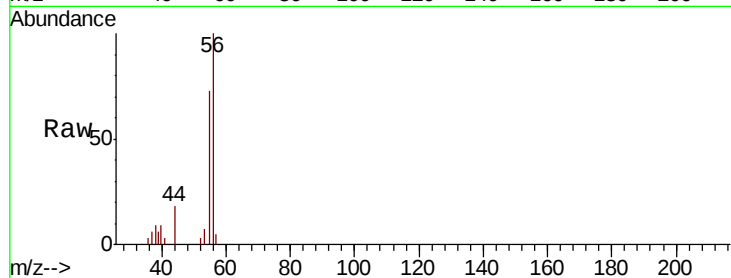
55 75.2 57.7 86.5

Manual Integrations

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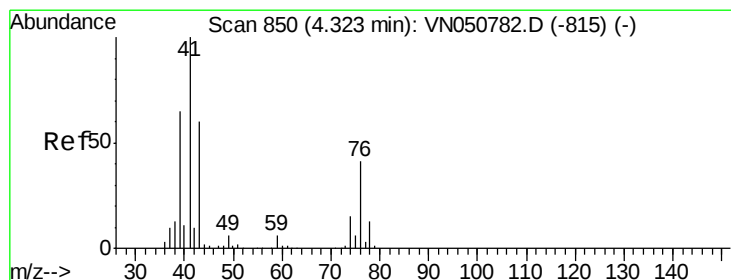
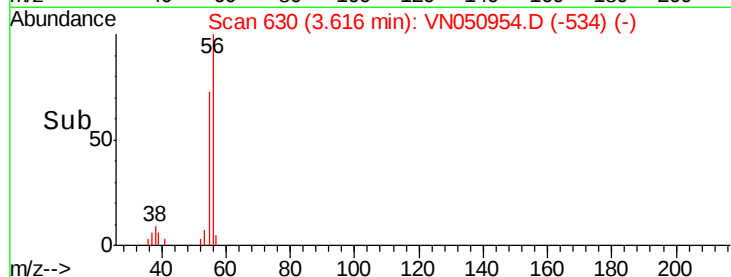
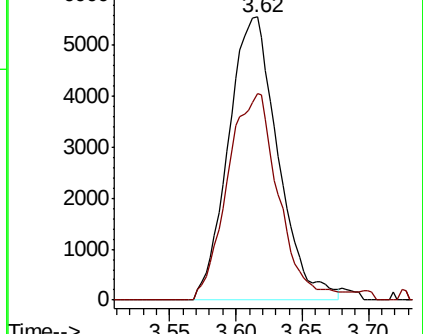
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.87 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

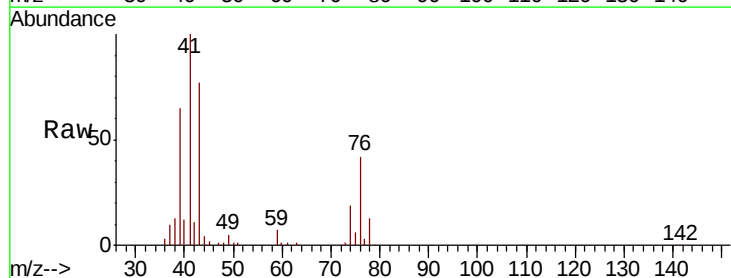
Tgt Ion: 41 Resp: 192948

Ion Ratio Lower Upper

41 100

39 59.8 50.2 75.2

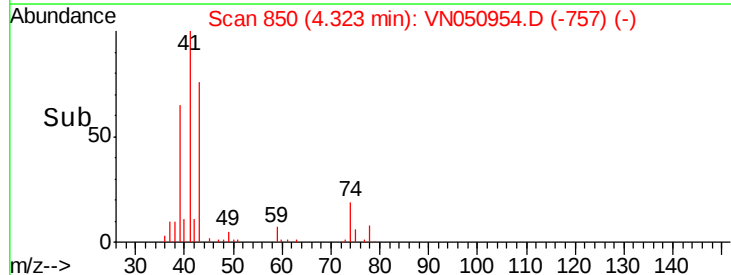
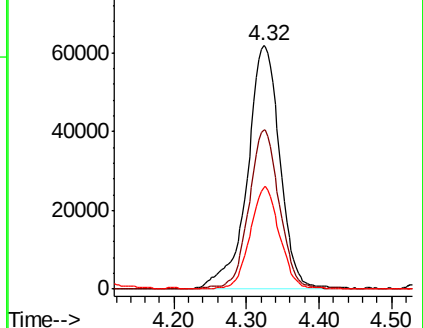
76 38.3 29.8 44.8

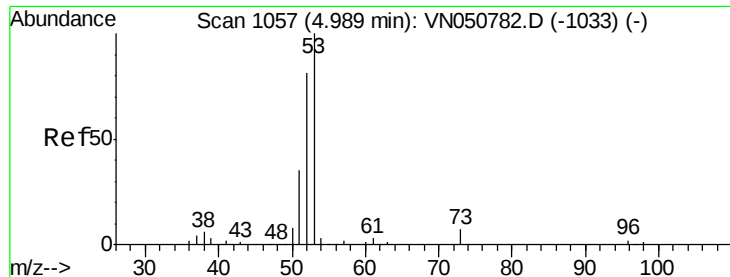


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 104.71 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

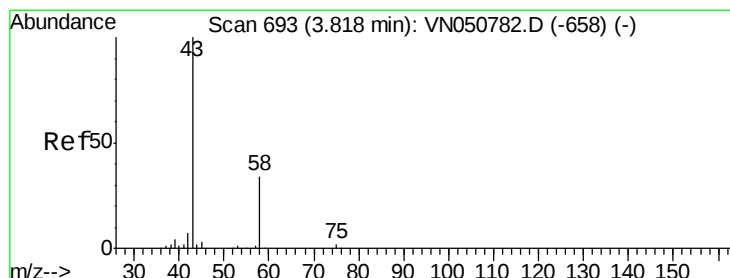
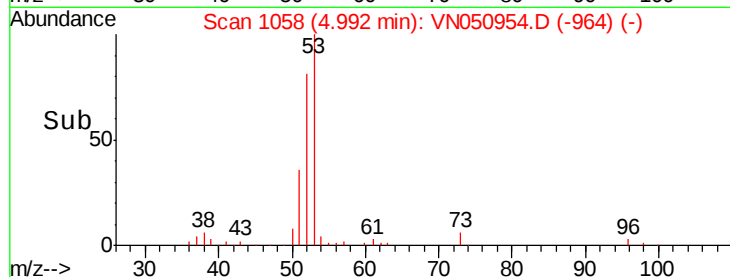
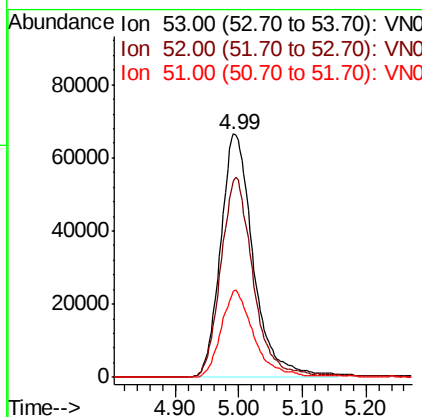
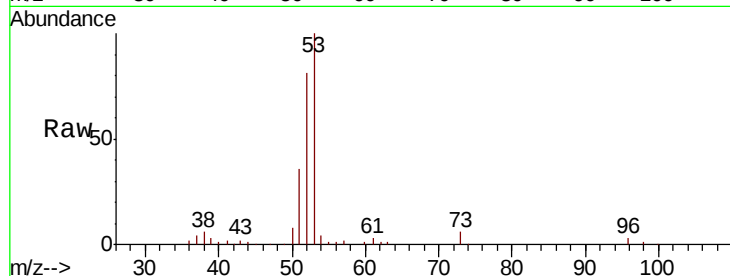
ClientSampleId :

VN0830WBS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 238333 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 80.6  | 65.9  | 98.9   |
| 51       | 35.4  | 28.6  | 43.0   |

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#16

Acetone

Concen: 102.62 ug/l

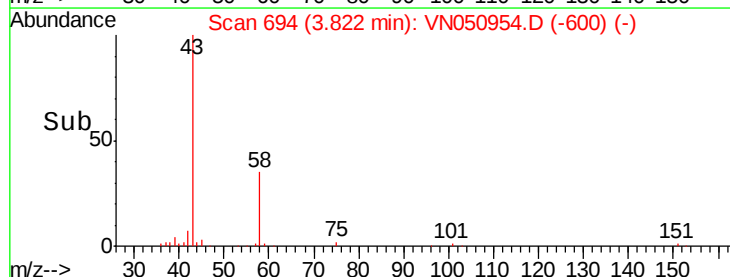
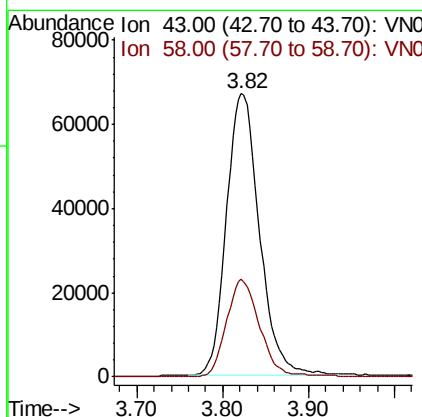
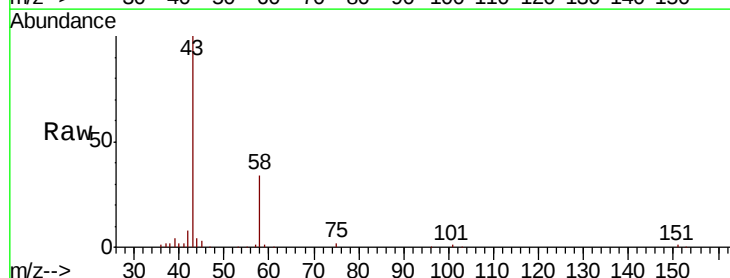
RT: 3.82 min Scan# 694

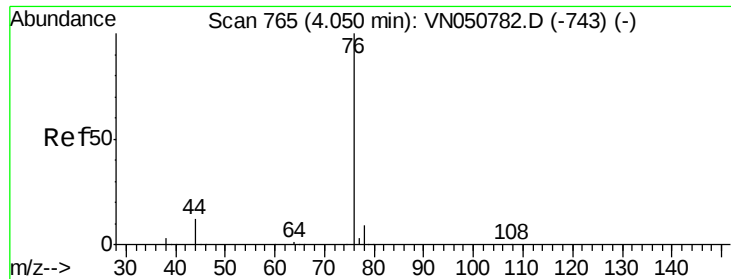
Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 177852 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 34.7  | 27.2  | 40.8   |





#17

Carbon Disulfide

Concen: 16.54 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion: 76 Resp: 363743

Ion Ratio Lower Upper

76 100

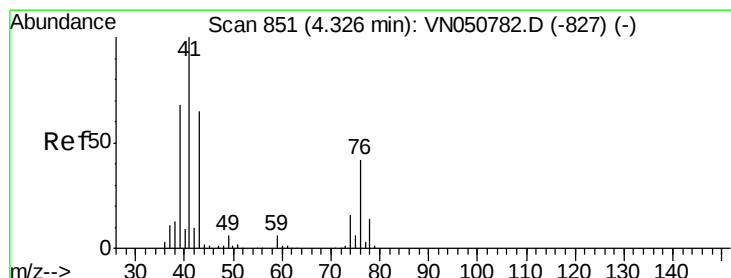
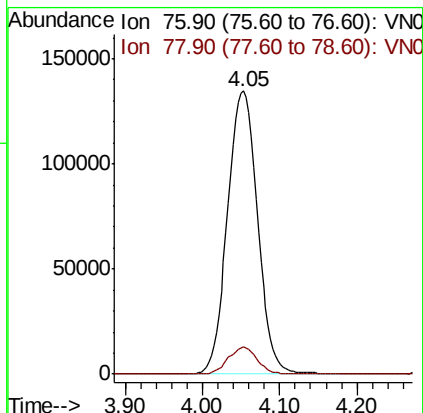
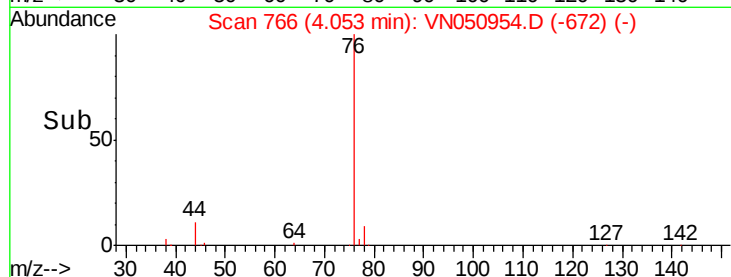
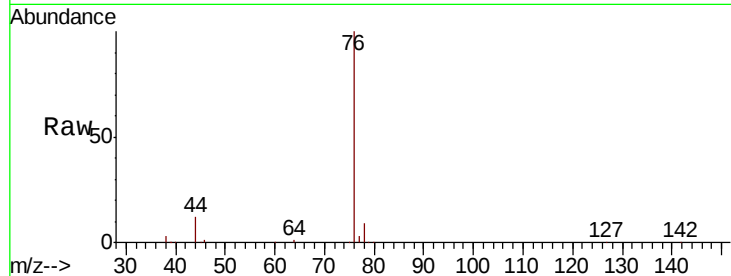
78 9.5 7.3 10.9

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#18

Methyl Acetate

Concen: 22.68 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050954.D

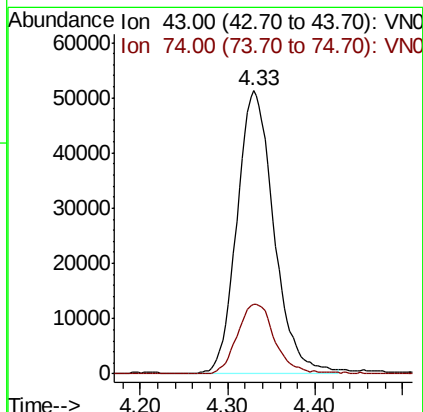
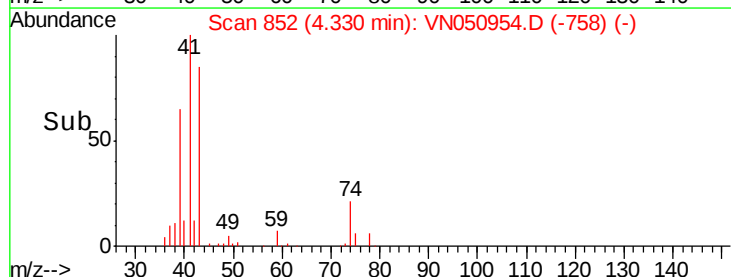
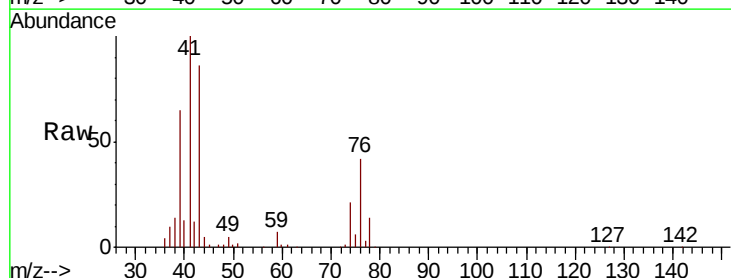
Acq: 30 Aug 2018 11:43

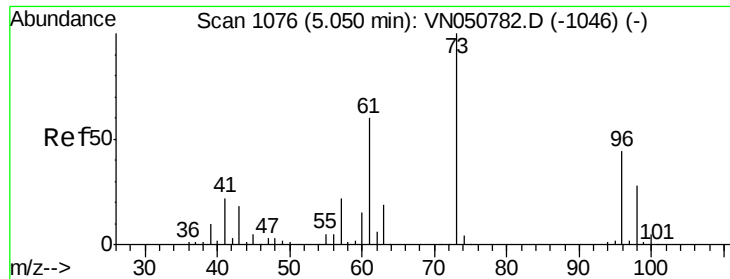
Tgt Ion: 43 Resp: 150622

Ion Ratio Lower Upper

43 100

74 25.0 19.8 29.8





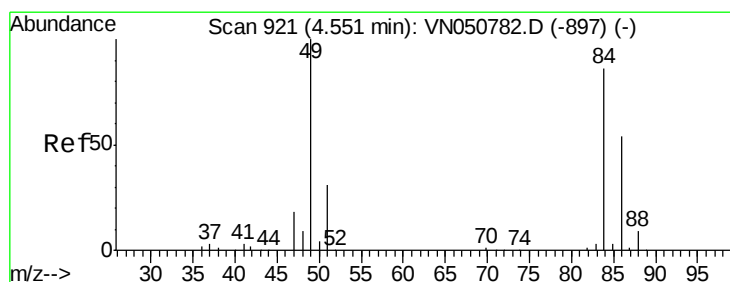
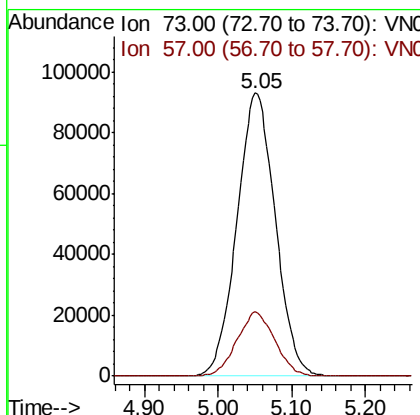
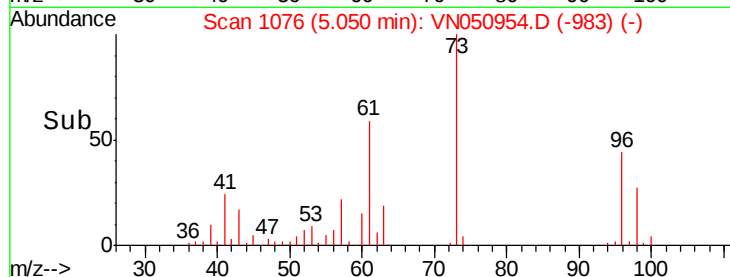
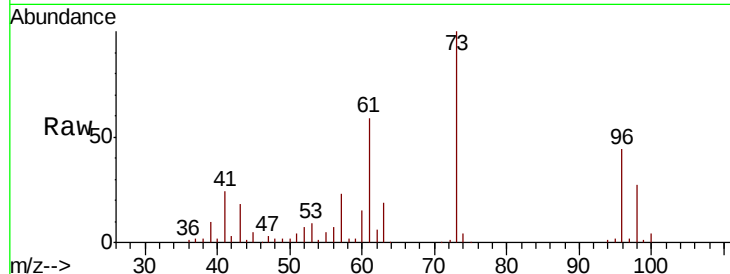
#19  
Methvl tert-butvl Ether  
Concen: 20.44 ug/l  
RT: 5.05 min Scan# 1076  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

Tot Ion: 73 Resp: 337354  
Ion Ratio Lower Upper  
73 100  
57 22.6 17.8 26.8

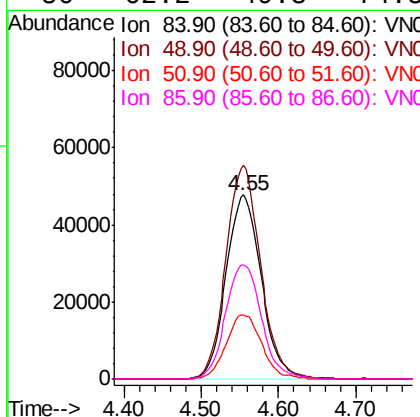
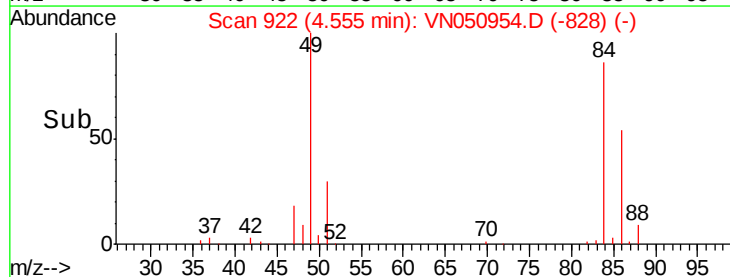
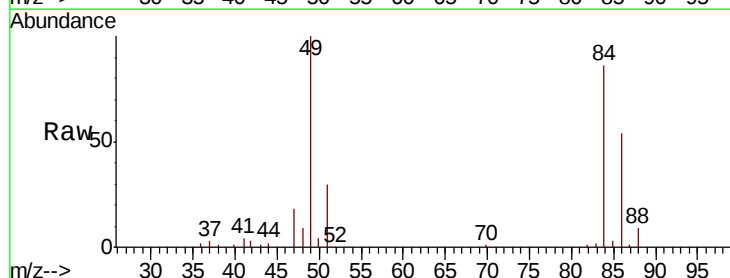
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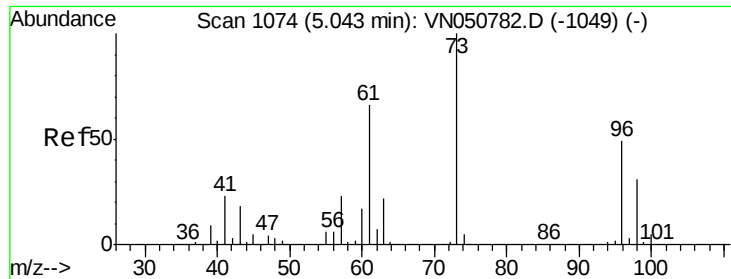
MMDadoda  
8/31/2018 11:32:22 AM



#20  
Methylene Chloride  
Concen: 19.05 ug/l  
RT: 4.55 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Tgt Ion: 84 Resp: 151033  
Ion Ratio Lower Upper  
84 100  
49 116.2 93.2 139.8  
51 34.7 29.0 43.6  
86 62.2 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.96 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

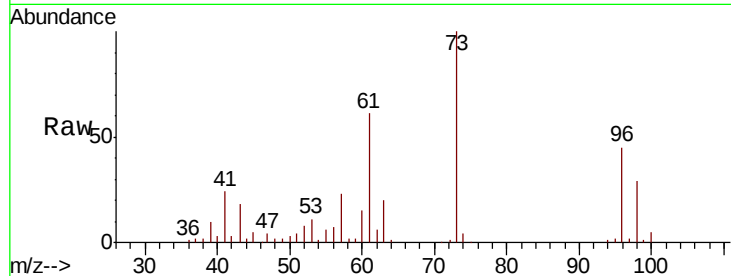
ClientSampleId :

VN0830WBS01

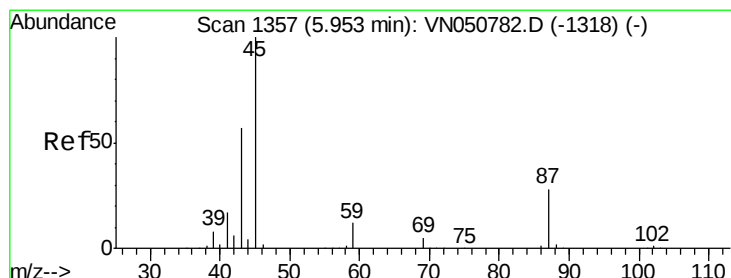
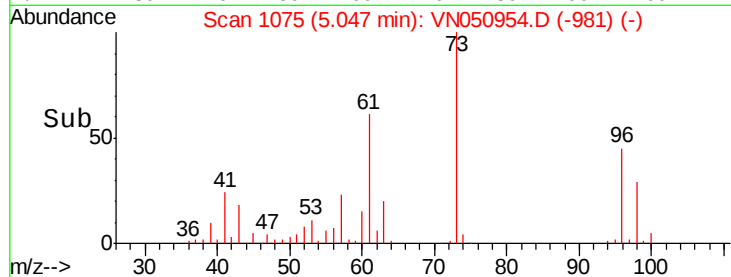
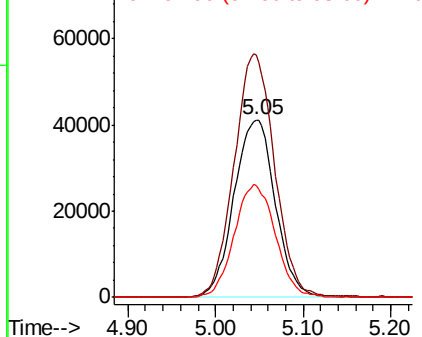
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 134560 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 136.4 | 107.4 | 161.0  |
| 98       | 63.3  | 50.7  | 76.1   |

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Abundance Ion 95.90 (95.60 to 96.60): VNC  
Ion 60.90 (60.60 to 61.60): VNC  
Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 20.63 ug/l

RT: 5.96 min Scan# 1358

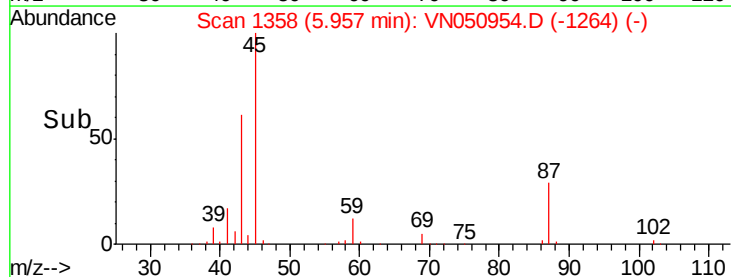
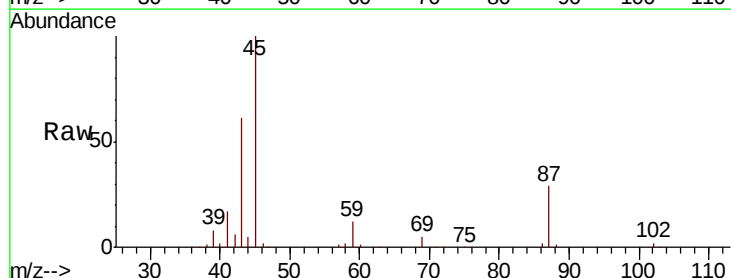
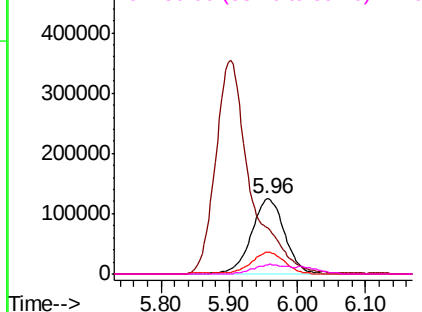
Delta R.T. 0.00 min

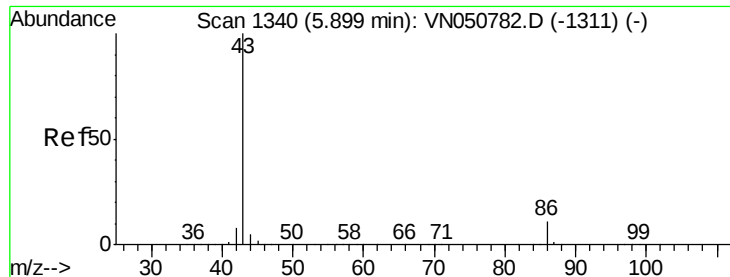
Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 420440 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 59.2  | 45.9  | 68.9   |
| 87       | 29.0  | 22.7  | 34.1   |
| 59       | 12.1  | 9.3   | 13.9   |

Abundance Ion 45.00 (44.70 to 45.70): VNC  
Ion 43.00 (42.70 to 43.70): VNC  
Ion 87.00 (86.70 to 87.70): VNC  
Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 95.48 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion: 43 Resp: 1252951

Ion Ratio Lower Upper

43 100

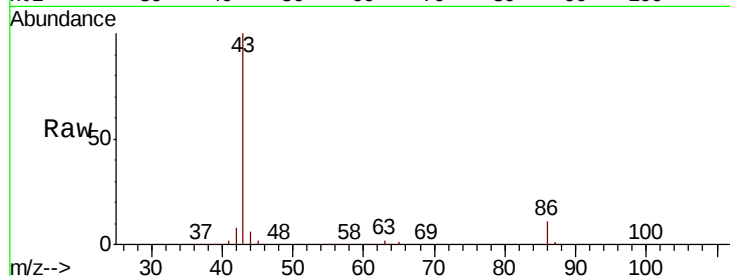
86 11.0 8.7 13.1

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

400000

300000

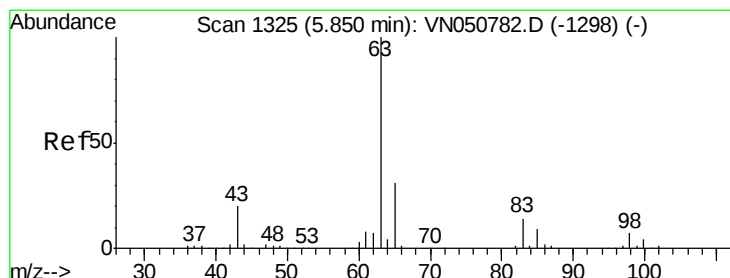
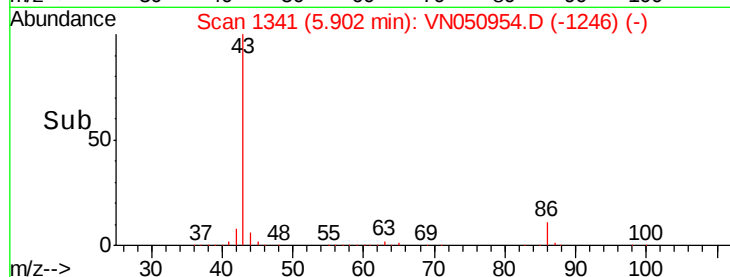
200000

100000

0

5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 19.59 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

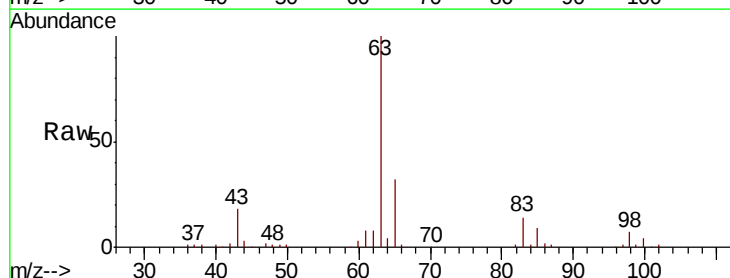
Tgt Ion: 63 Resp: 256237

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 4.3 2.1 6.5



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

100000

80000

60000

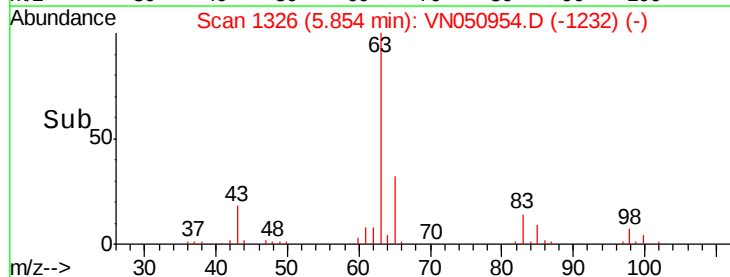
40000

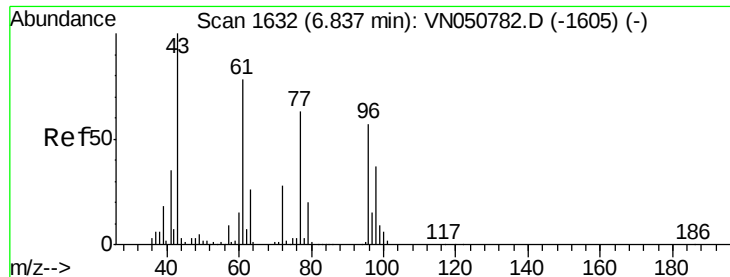
20000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 92.34 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.01 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion: 43 Resp: 261730

Ion Ratio Lower Upper

43 100

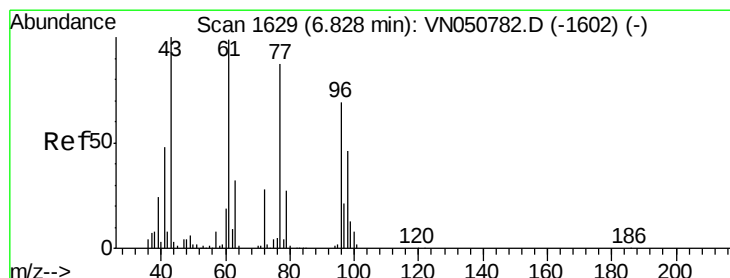
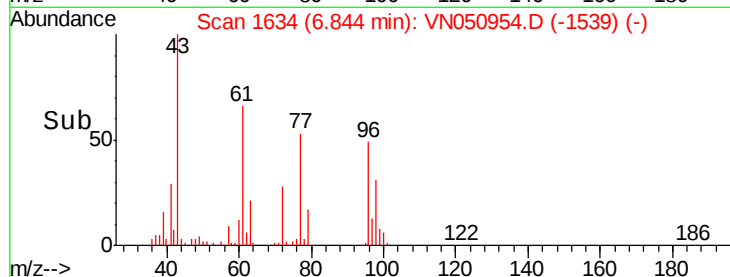
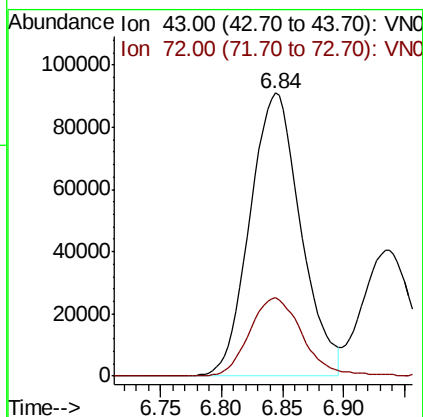
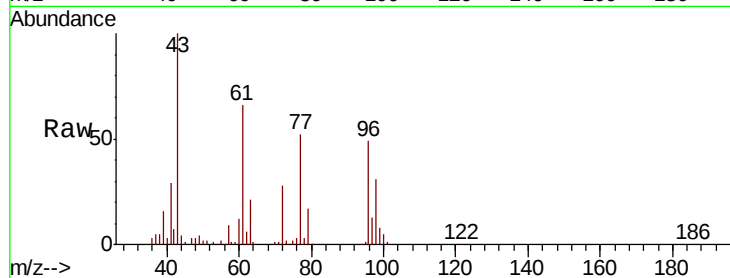
72 27.6 22.3 33.5

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#26

2,2-Dichloropropane

Concen: 19.19 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050954.D

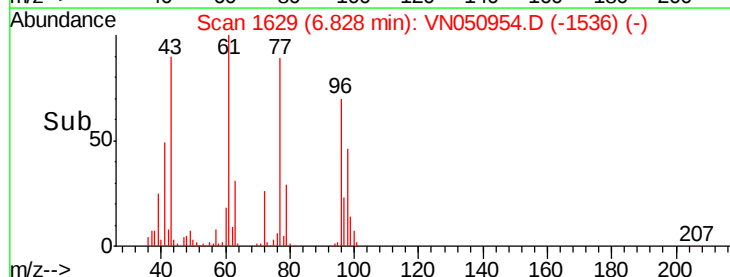
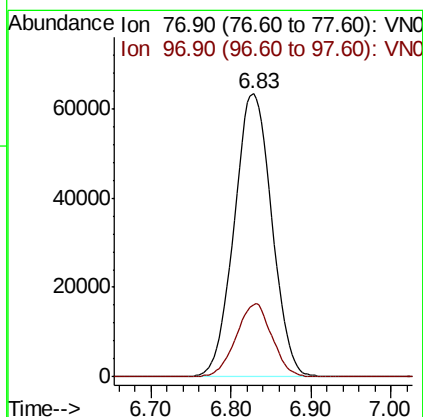
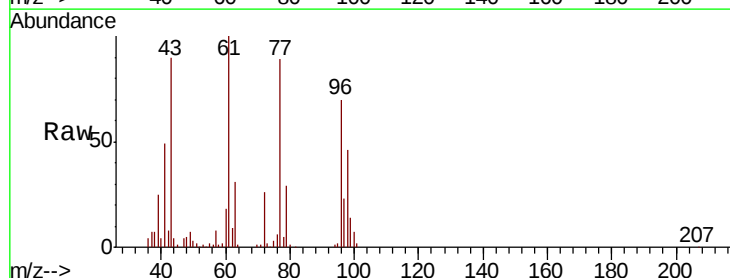
Acq: 30 Aug 2018 11:43

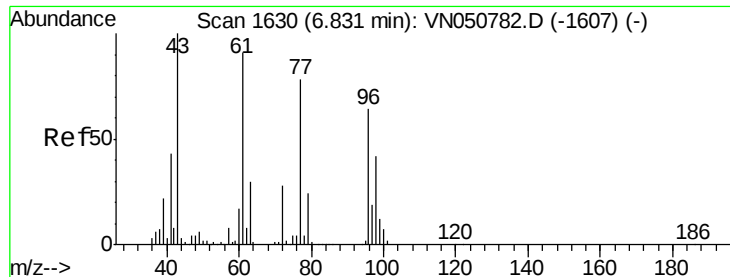
Tgt Ion: 77 Resp: 201691

Ion Ratio Lower Upper

77 100

97 24.7 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 19.64 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

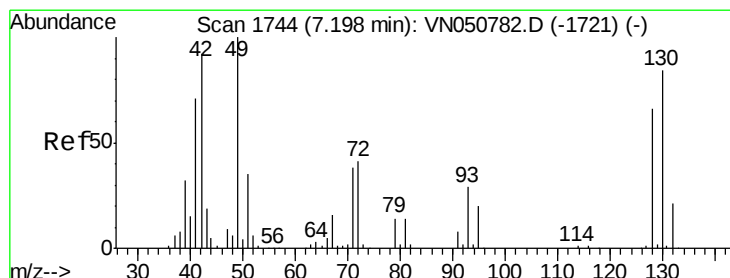
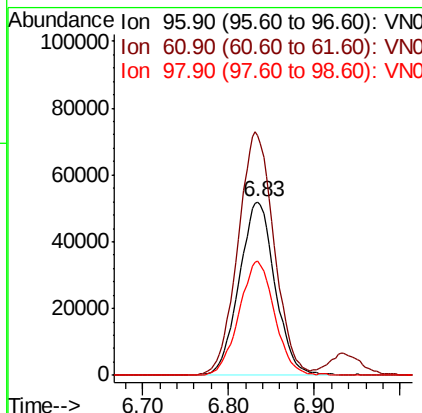
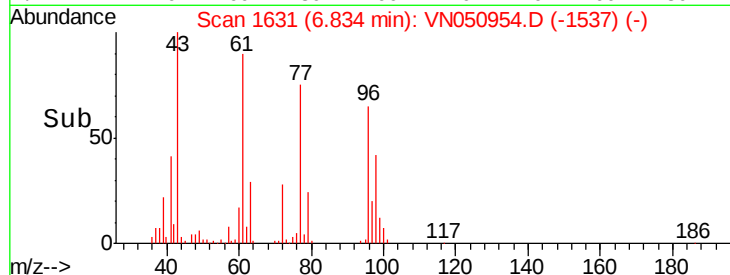
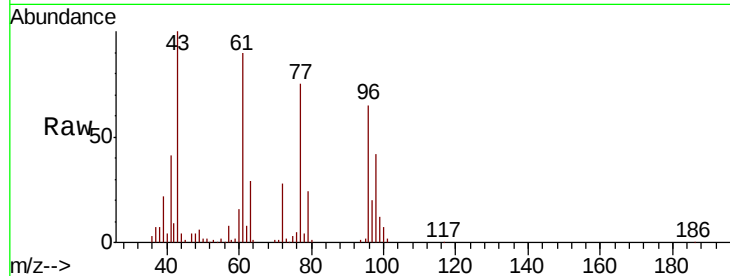
ClientSampleId :

VN0830WBS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 150289 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 141.3 | 0.0   | 283.4  |
| 98       | 65.2  | 0.0   | 129.8  |

Manual Integrations  
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#28

Bromochloromethane

Concen: 19.41 ug/l

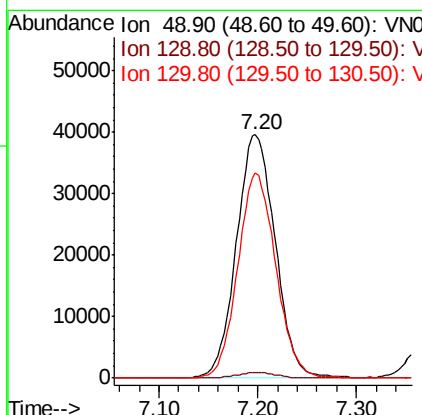
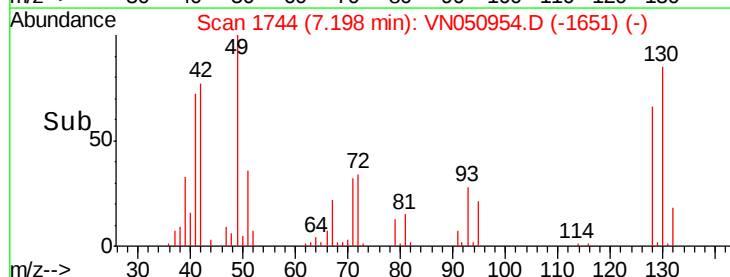
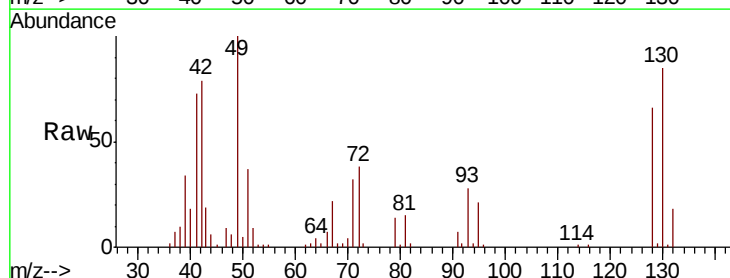
RT: 7.20 min Scan# 1744

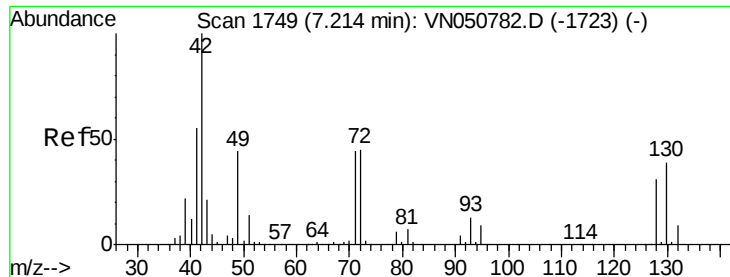
Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 49    | Resp: | 107916 |
| Ion      | Ratio | Lower | Upper  |
| 49       | 100   |       |        |
| 129      | 2.2   | 0.0   | 4.2    |
| 130      | 82.2  | 67.1  | 100.7  |





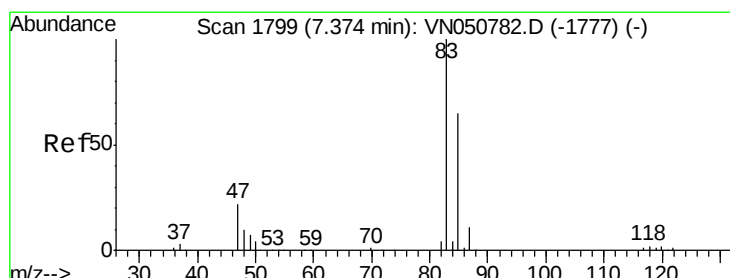
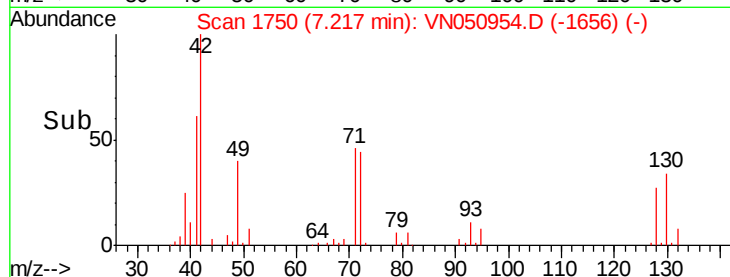
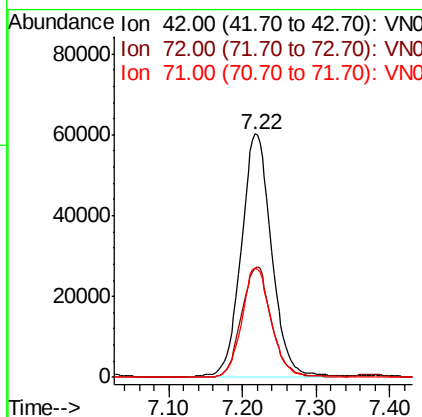
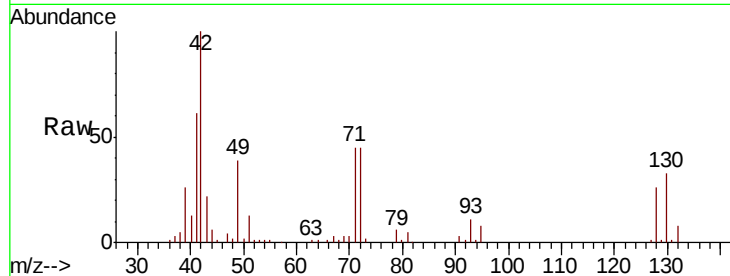
#29  
Tetrahydrofuran  
Concen: 105.57 ug/l  
RT: 7.22 min Scan# 1750  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 44.8  | 35.5  | 53.3  |
| 71      | 43.5  | 33.7  | 50.5  |

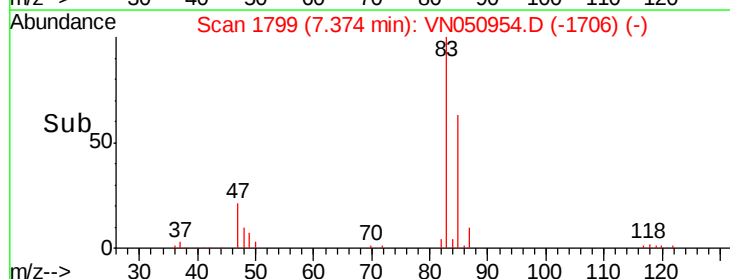
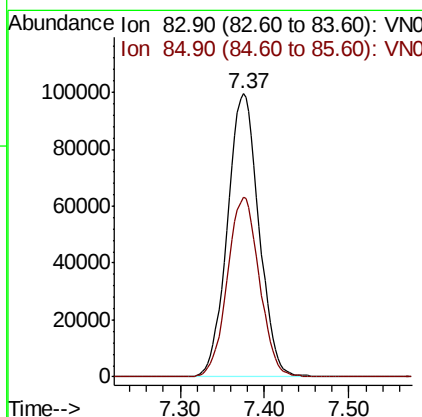
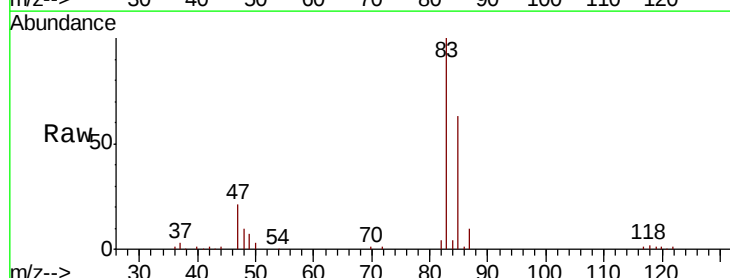
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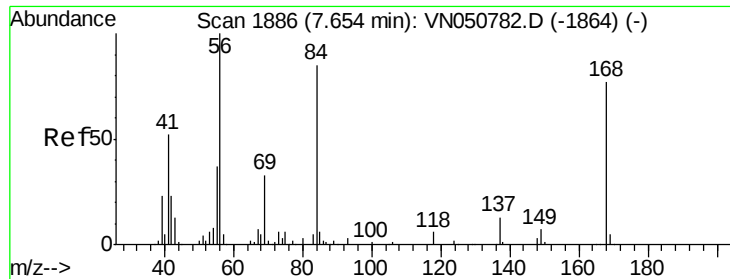
MMDadoda  
8/31/2018 11:32:22 AM



#30  
Chloroform  
Concen: 19.98 ug/l  
RT: 7.37 min Scan# 1799  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.4  | 52.2  | 78.4  |





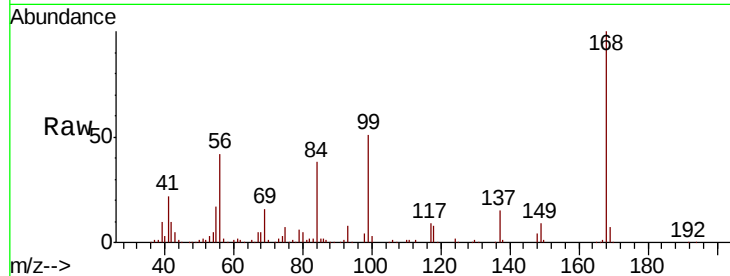
#31  
Cyclohexane  
Concen: 18.19 ug/l  
RT: 7.66 min Scan# 1887  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

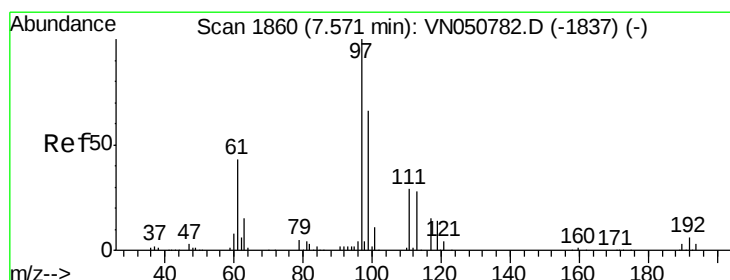
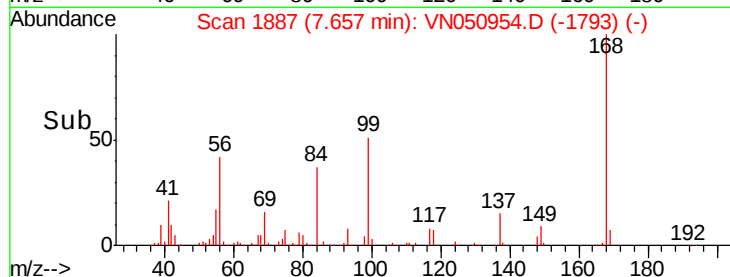
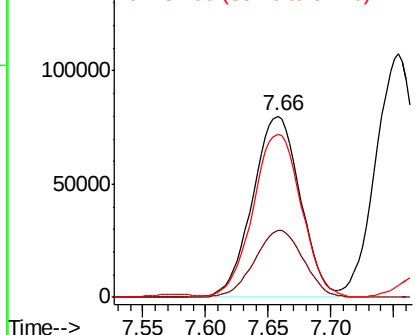
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 36.8  | 26.2  | 39.4  |
| 84      | 88.6  | 68.3  | 102.5 |

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8/31/2018 11:32:22 AM

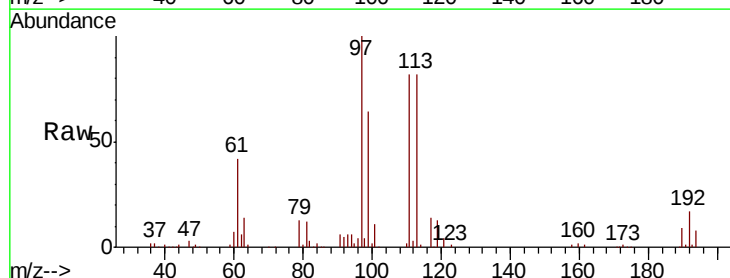


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

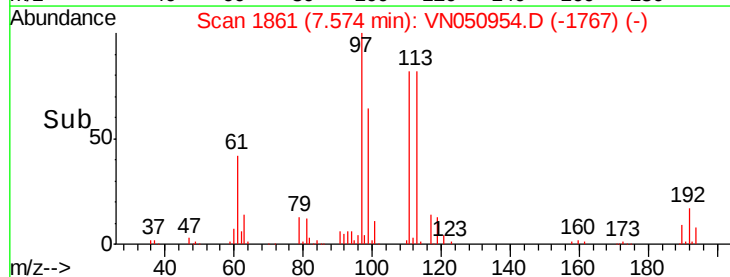
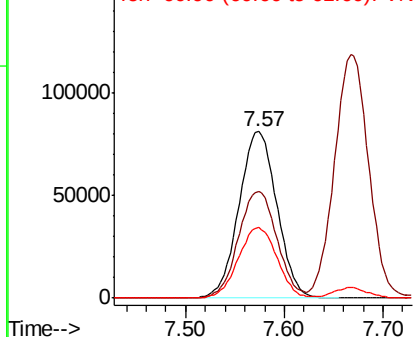


#32  
1,1,1-Trichloroethane  
Concen: 19.49 ug/l  
RT: 7.57 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.1  | 51.8  | 77.6  |
| 61      | 43.2  | 34.9  | 52.3  |



Abundance Ion 96.90 (96.60 to 97.60): VN0  
Ion 98.90 (98.60 to 99.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0





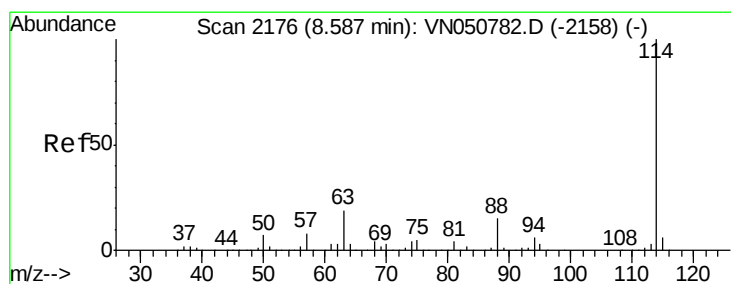
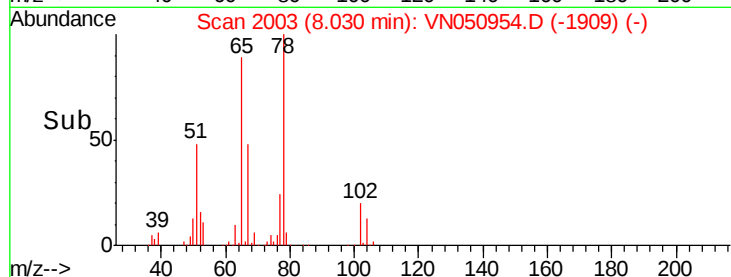
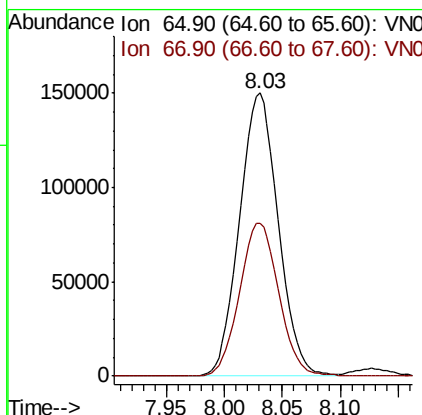
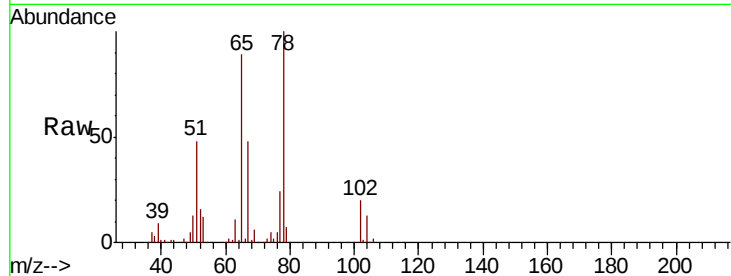
#33  
 1,2-Dichloroethane-d4  
 Concen: 49.62 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0830WBS01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 65      | 100   |      |       |       |
| 67      | 54.9  | 0.0  | 110.4 |       |

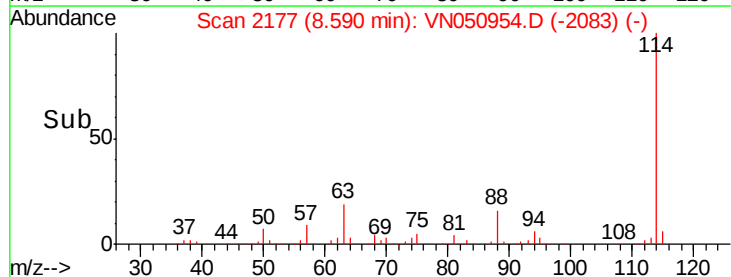
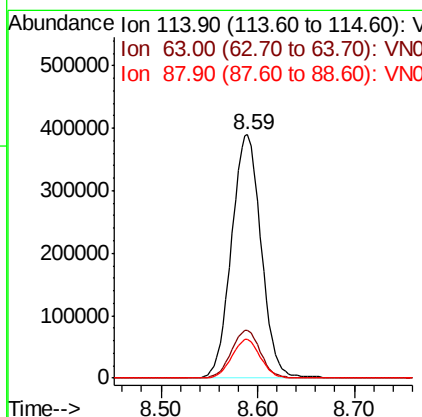
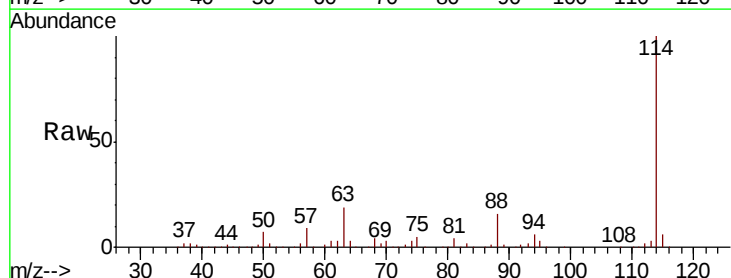
Manual Integrations  
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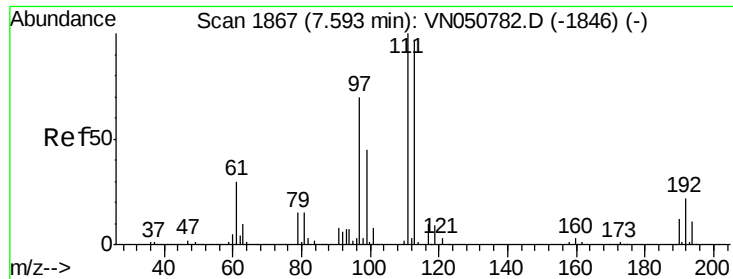
MMDadoda  
 8/31/2018 11:32:22 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 114     | 100   |      |       |       |
| 63      | 19.4  | 0.0  | 38.6  |       |
| 88      | 16.0  | 0.0  | 30.6  |       |





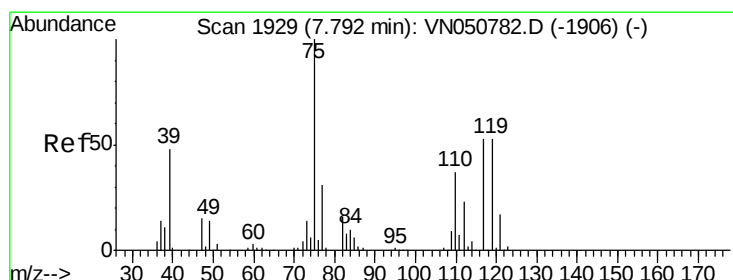
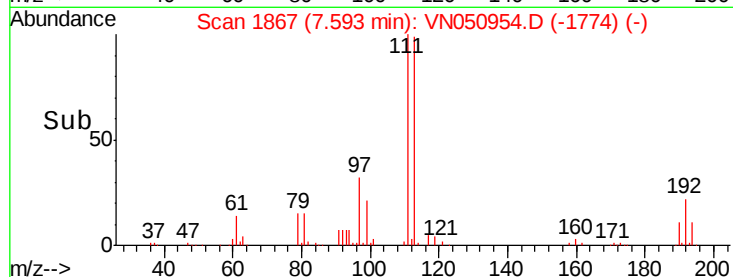
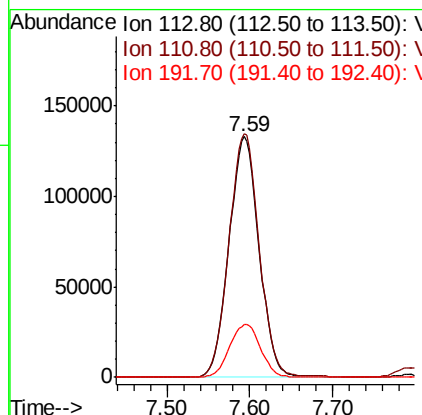
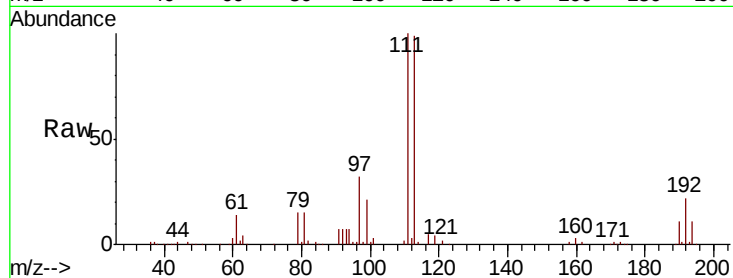
#35  
 Dibromofluoromethane  
 Concen: 50.89 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0830WBS01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 113     | 100   |      |       |       |
| 111     | 101.8 | 82.6 | 123.8 |       |
| 192     | 22.6  | 18.0 | 27.0  |       |

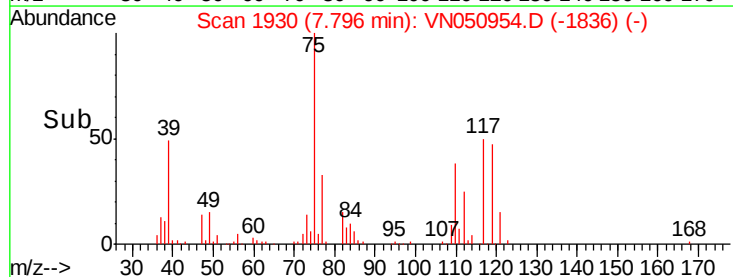
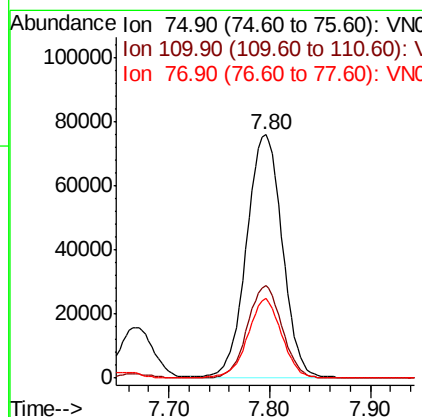
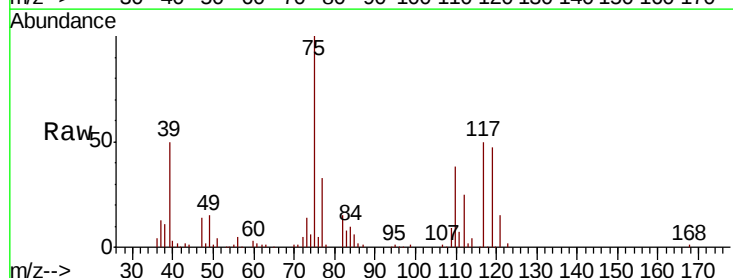
Manual Integrations  
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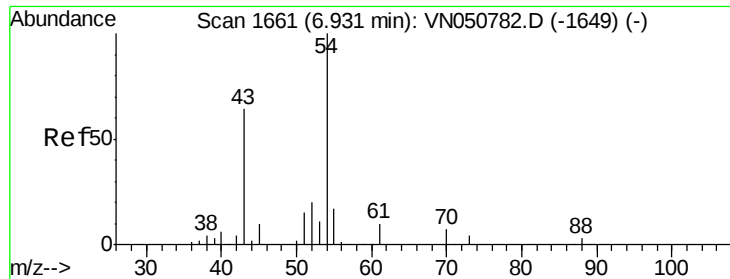
MMDadoda  
 8/31/2018 11:32:22 AM



#36  
 1,1-Dichloropropene  
 Concen: 19.00 ug/l  
 RT: 7.80 min Scan# 1930  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 75      | 100   |      |       |       |
| 110     | 36.9  | 18.1 | 54.4  |       |
| 77      | 31.1  | 24.8 | 37.2  |       |





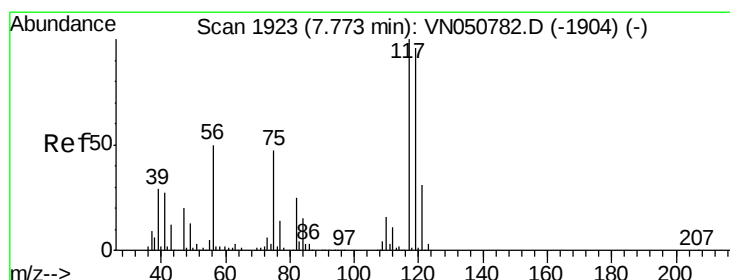
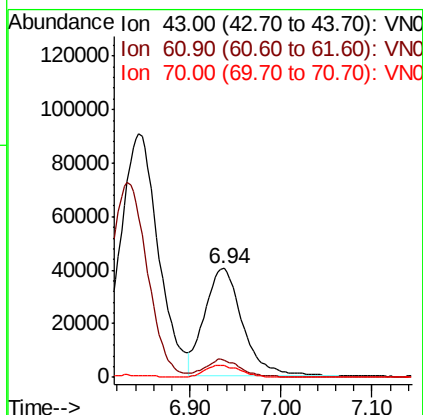
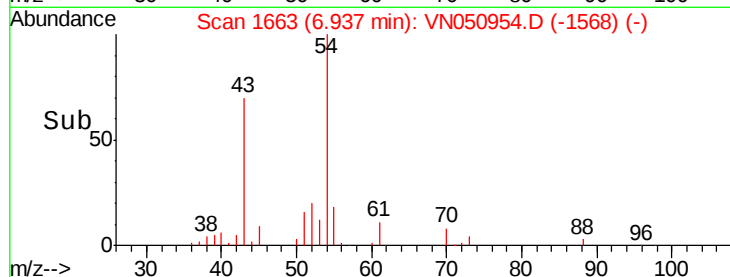
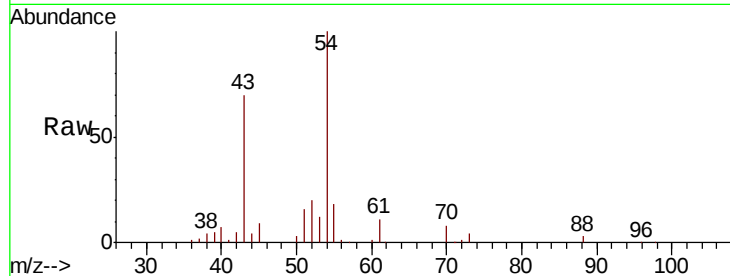
#37  
Ethyl Acetate  
Concen: 20.79 ug/l  
RT: 6.94 min Scan# 1663  
Delta R.T. 0.01 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 15.8  | 12.0  | 18.0  |
| 70      | 10.9  | 8.6   | 13.0  |

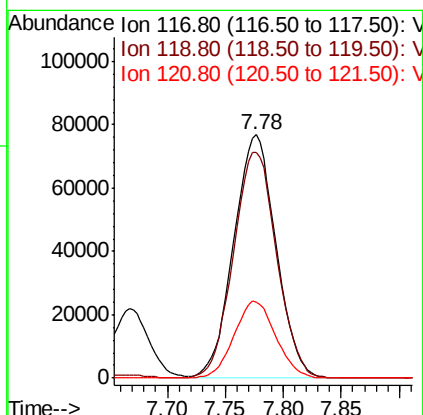
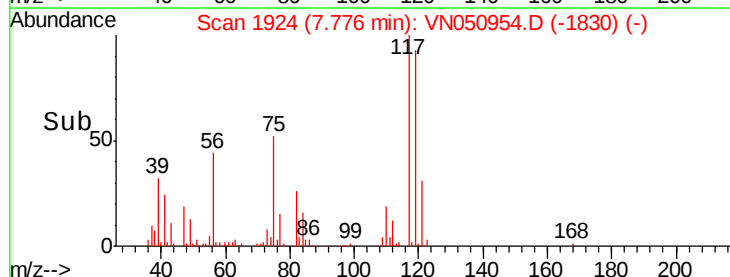
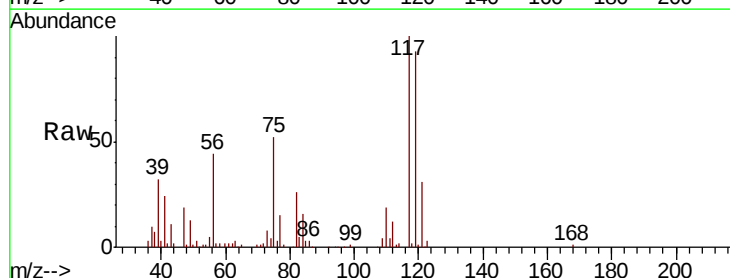
Manual Integrations  
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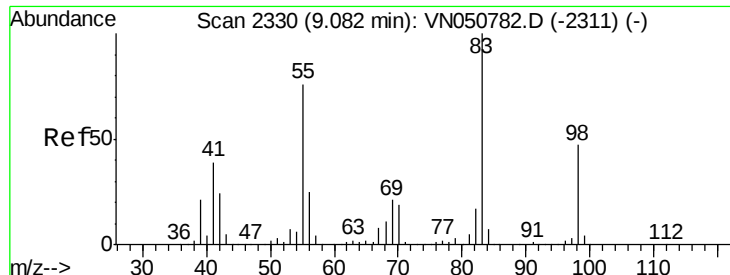
MMDadoda  
8/31/2018 11:32:22 AM



#38  
Carbon Tetrachloride  
Concen: 19.68 ug/l  
RT: 7.78 min Scan# 1924  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 92.8  | 76.3  | 114.5 |
| 121     | 31.4  | 24.6  | 36.8  |





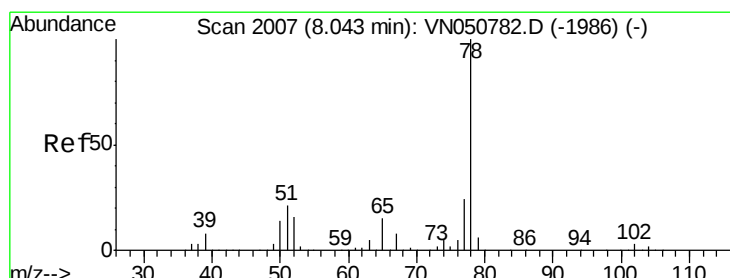
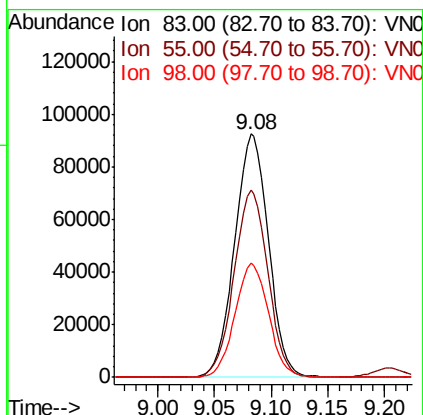
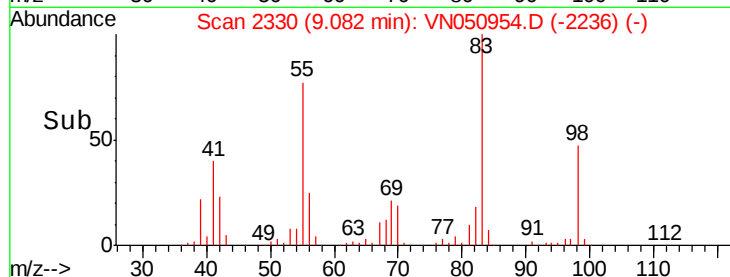
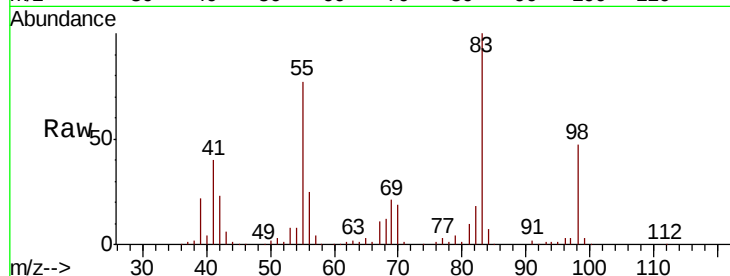
#39  
Methvlcvclohexane  
Concen: 18.23 ug/l  
RT: 9.08 min Scan# 2330  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 55      | 77.1  | 61.0 | 91.4  |       |
| 98      | 46.9  | 37.5 | 56.3  |       |

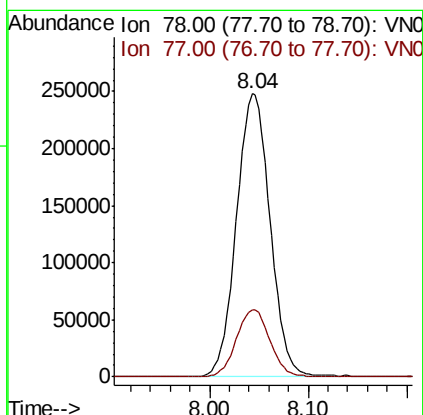
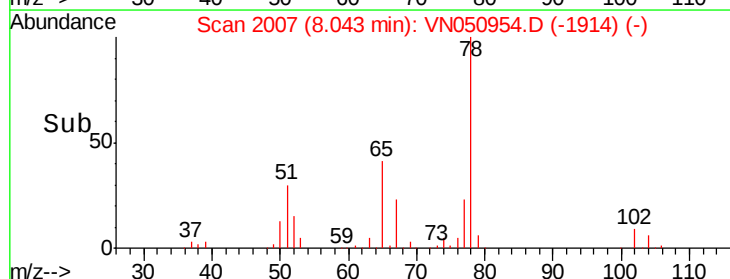
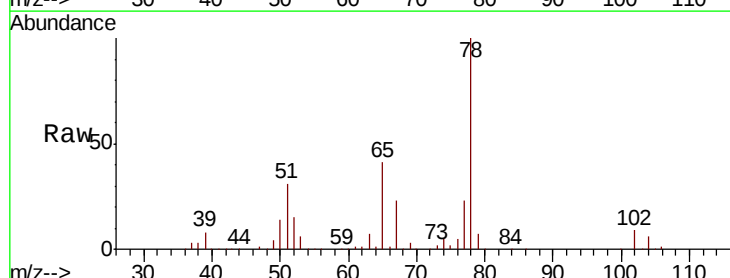
Manual Integrations  
APPROVED

MMDadoda  
8/31/2018 11:32:22 AM



#40  
Benzene  
Concen: 19.86 ug/l  
RT: 8.04 min Scan# 2007  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   |      |       |       |
| 77      | 23.5  | 19.0 | 28.4  |       |





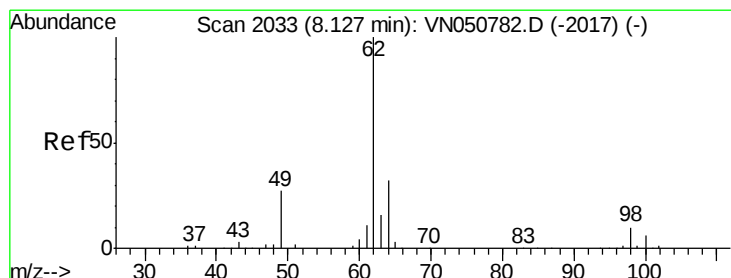
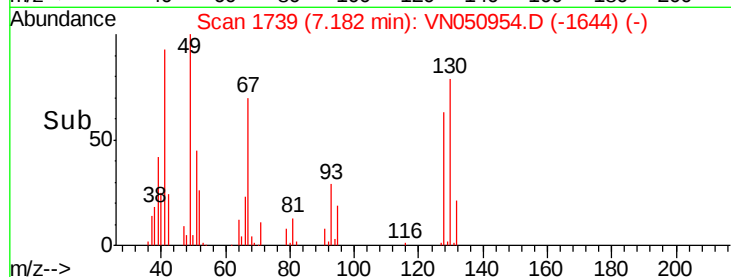
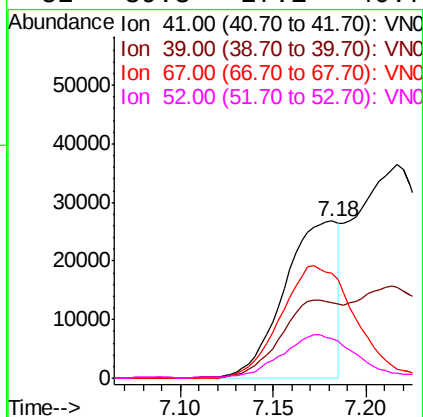
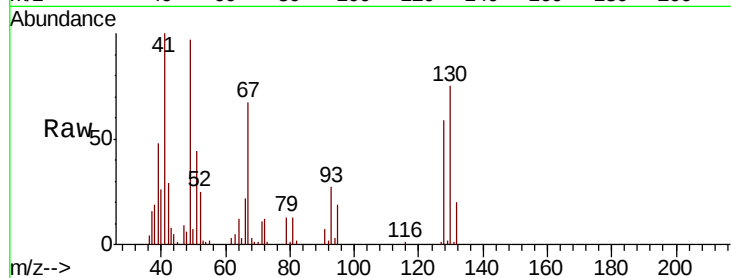
#41  
Methacrylonitrile  
Concen: 17.81 ug/l  
RT: 7.18 min Scan# 1739  
Delta R.T. 0.01 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 41      | 100   |       |       |       |
| 39      | 56.1  | 45.4  | 68.0  |       |
| 67      | 100.5 | 70.6  | 106.0 |       |
| 52      | 39.3  | 27.1  | 40.7  |       |

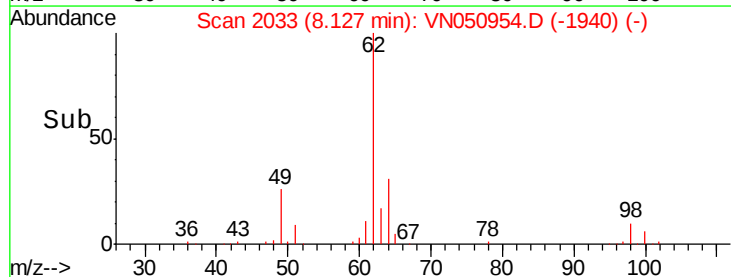
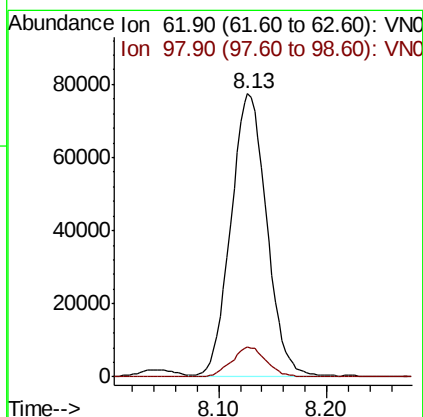
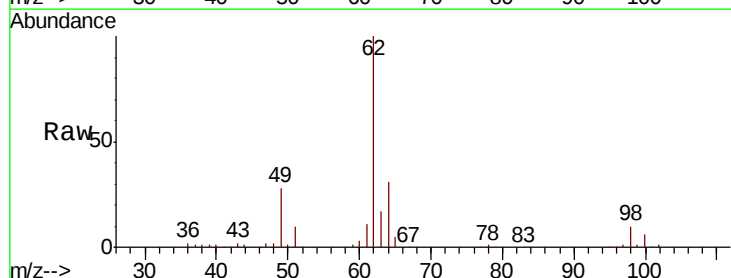
Manual Integrations  
APPROVED

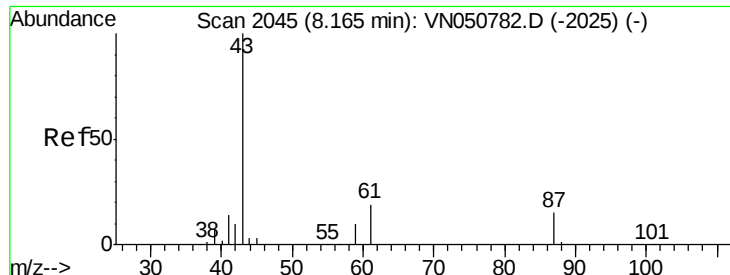
MMDadoda  
8/31/2018 11:32:22 AM



#42  
1,2-Dichloroethane  
Concen: 20.21 ug/l  
RT: 8.13 min Scan# 2033  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 62      | 100  |       |       |       |
| 98      | 10.1 | 0.0   | 19.6  |       |





#43

Isopropyl Acetate

Concen: 20.81 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

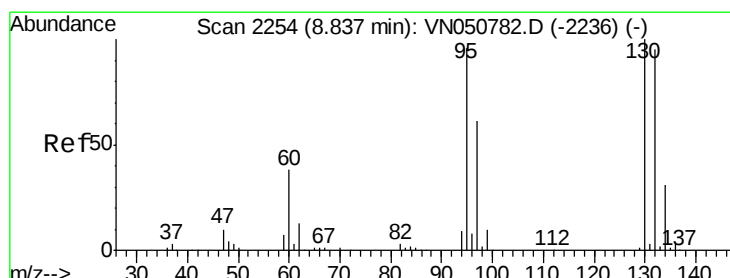
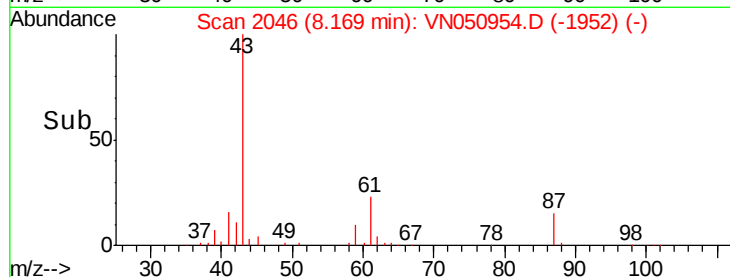
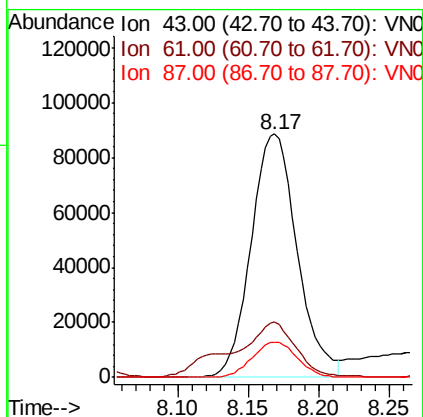
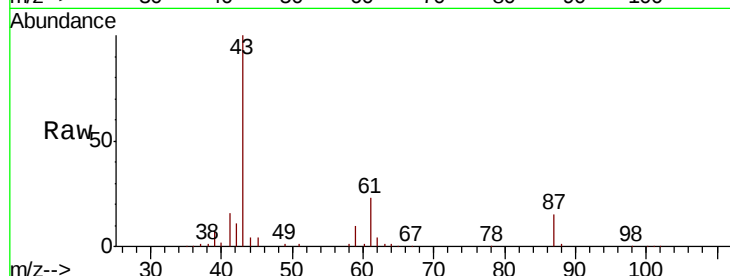
ClientSampleId :

VN0830WBS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 201138 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 61       | 21.5  | 17.5  | 26.3   |
| 87       | 14.2  | 11.3  | 16.9   |

Manual Integrations  
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8/31/2018 11:32:22 AM



#44

Trichloroethene

Concen: 19.79 ug/l

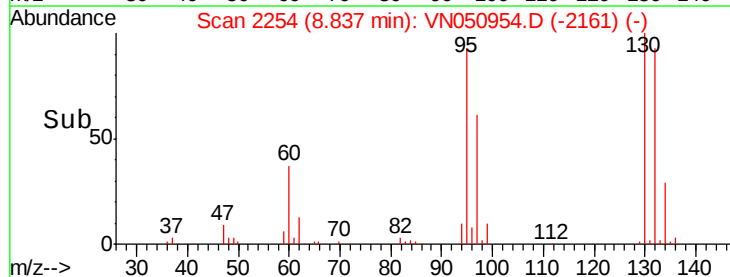
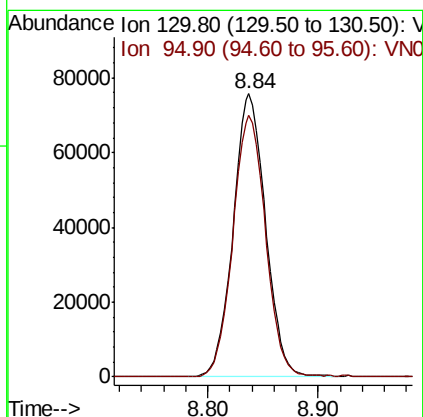
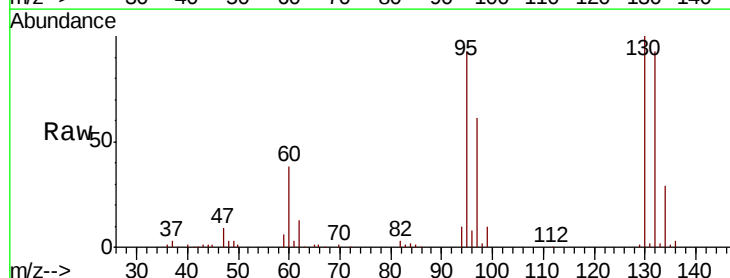
RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 154038 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 92.6  | 0.0   | 193.0  |





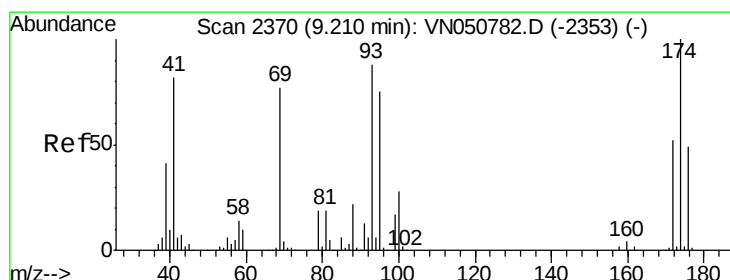
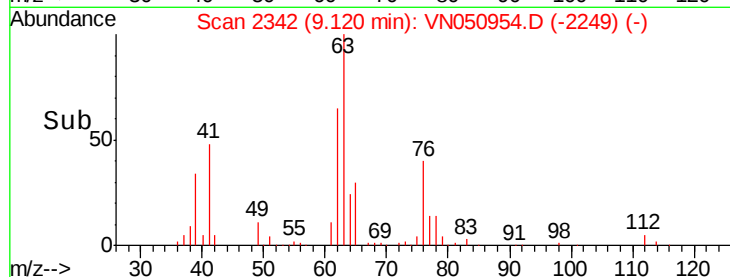
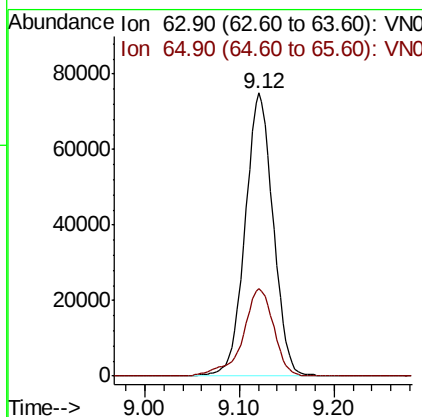
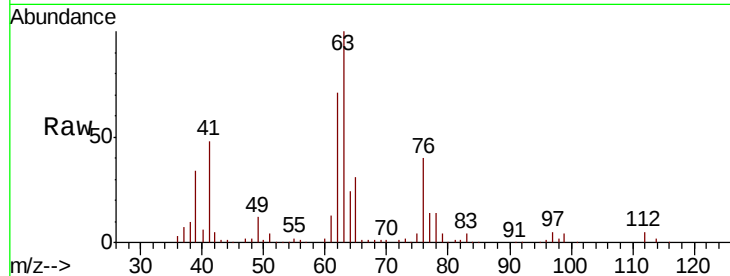
#45  
 1,2-Dichloropropane  
 Concen: 19.90 ug/l  
 RT: 9.12 min Scan# 2342  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0830WBS01

Tot Ion: 63 Resp: 154345  
 Ion Ratio Lower Upper  
 63 100  
 65 30.9 25.0 37.6

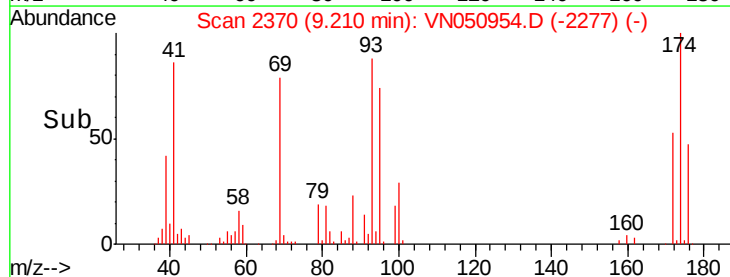
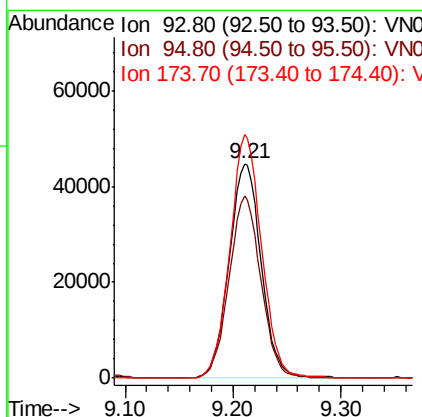
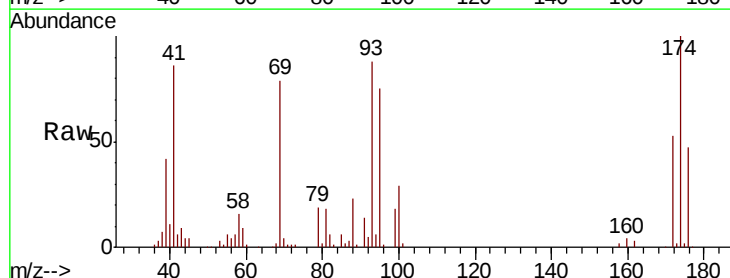
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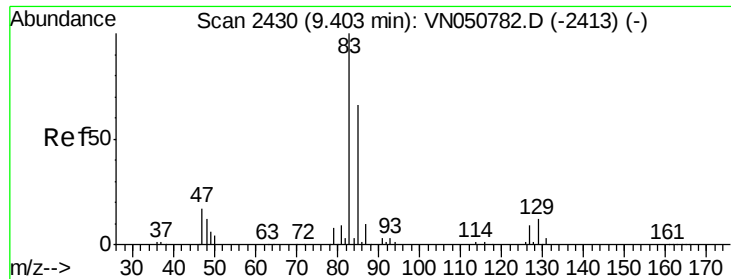
MMDadoda  
 8/31/2018 11:32:22 AM



#46  
 Dibromomethane  
 Concen: 20.33 ug/l  
 RT: 9.21 min Scan# 2370  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Tgt Ion: 93 Resp: 92645  
 Ion Ratio Lower Upper  
 93 100  
 95 84.3 66.7 100.1  
 174 111.8 89.8 134.6





#47

Bromodichloromethane

Concen: 20.50 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

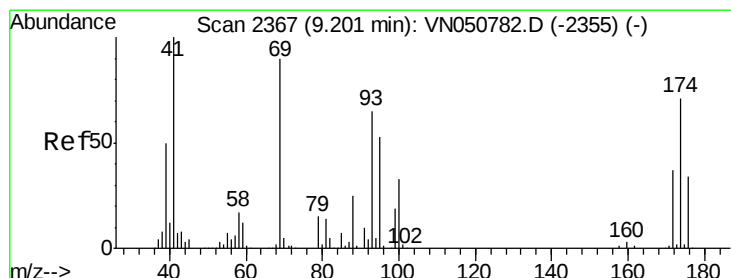
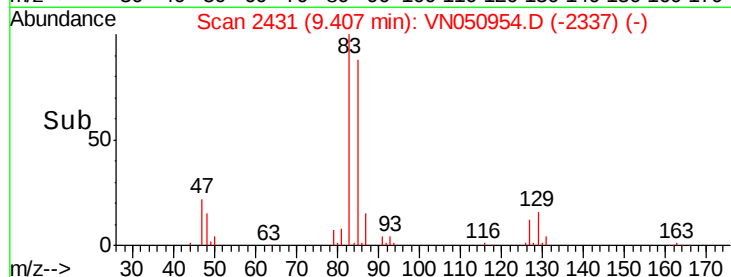
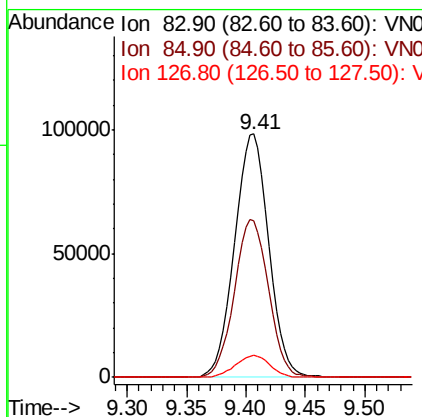
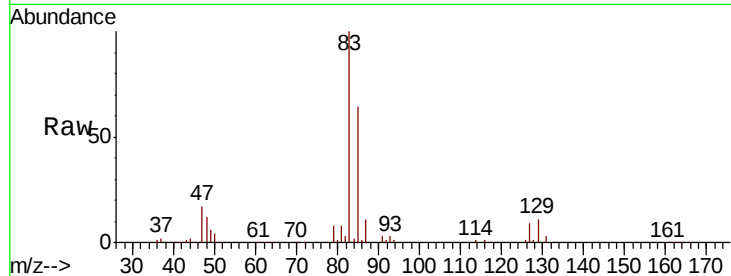
ClientSampled :

VN0830WBS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 195711 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.1  | 52.6  | 78.8   |
| 127       | 9.0   | 7.2   | 10.8   |

Manual Integrations  
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8/31/2018 11:32:22 AM



#48

Methyl methacrylate

Concen: 20.60 ug/l

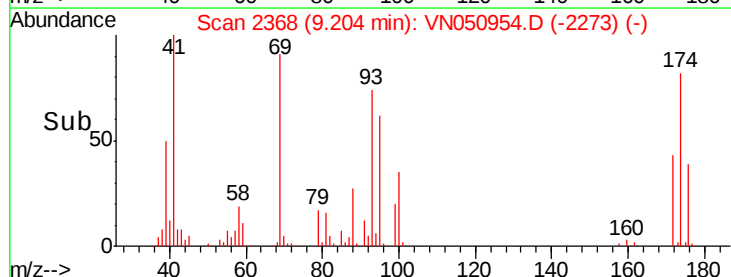
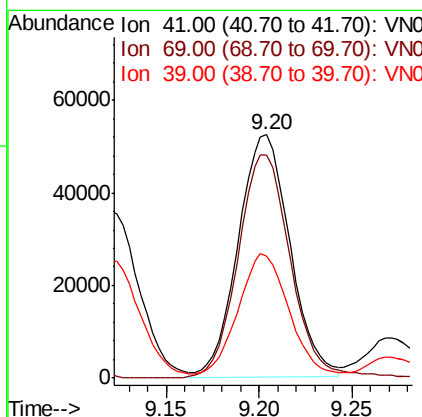
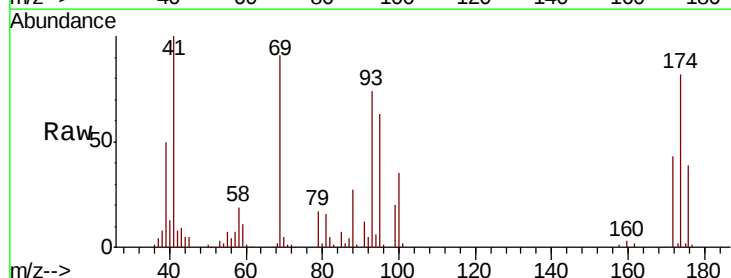
RT: 9.20 min Scan# 2368

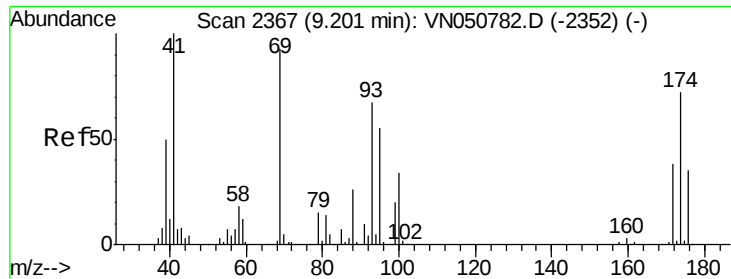
Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 41    | Resp: | 101481 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 69        | 93.7  | 74.7  | 112.1  |
| 39        | 50.2  | 42.2  | 63.2   |





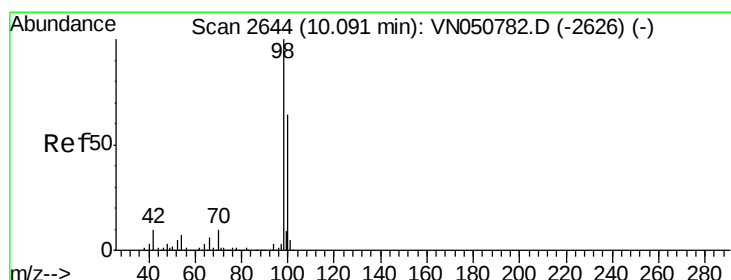
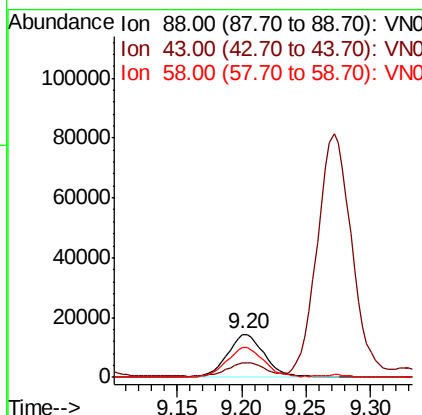
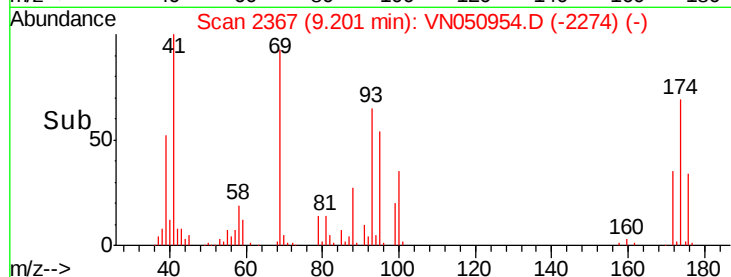
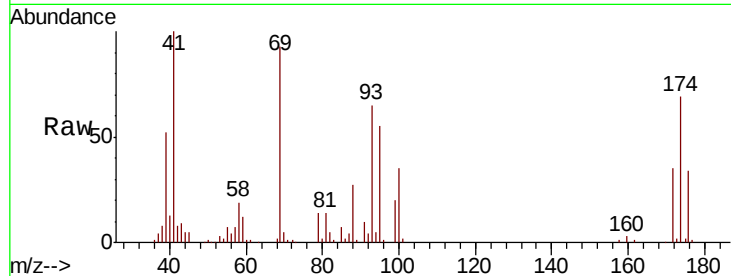
#49  
1,4-Dioxane  
Concen: 426.59 ug/l  
RT: 9.20 min Scan# 2367  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

| Tot Ion | 88    | Resp  | 28646 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 88      | 100   |       |       |
| 43      | 31.9  | 25.9  | 38.9  |
| 58      | 70.4  | 55.0  | 82.4  |

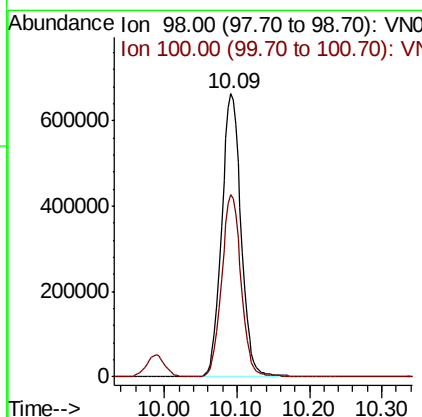
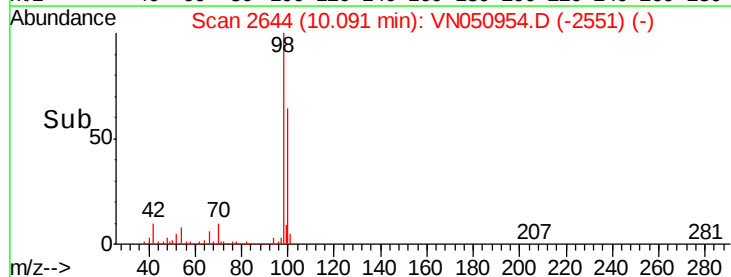
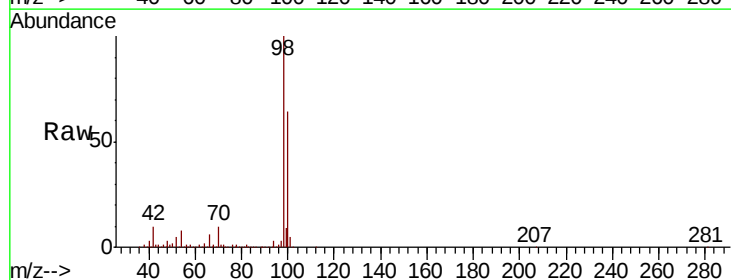
Manual Integrations  
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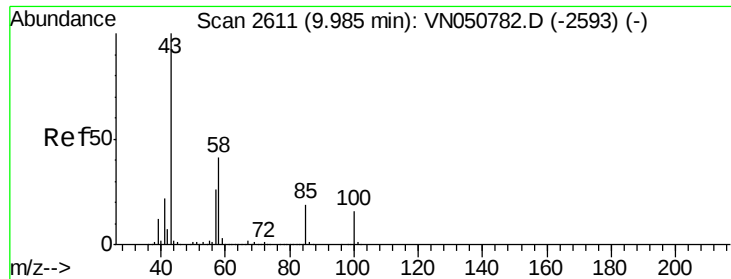
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#50  
Toluene-d8  
Concen: 49.85 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | 98    | Resp  | 1229753 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 98      | 100   |       |         |
| 100     | 64.4  | 51.5  | 77.3    |





#51

4-Methyl-2-Pentanone

Concen: 101.21 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion: 43 Resp: 583799

Ion Ratio Lower Upper

43 100

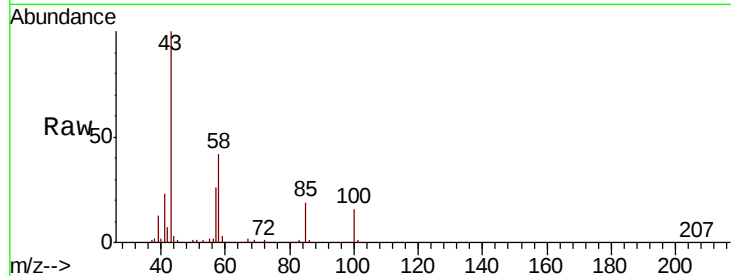
58 41.2 32.4 48.6

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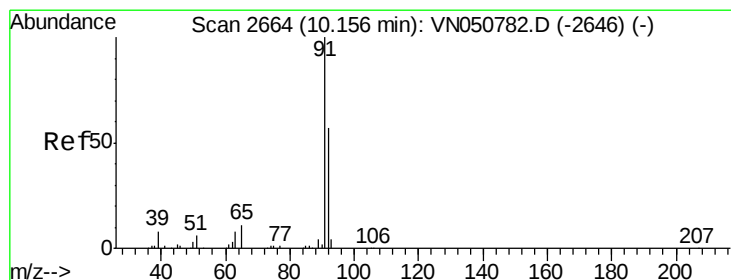
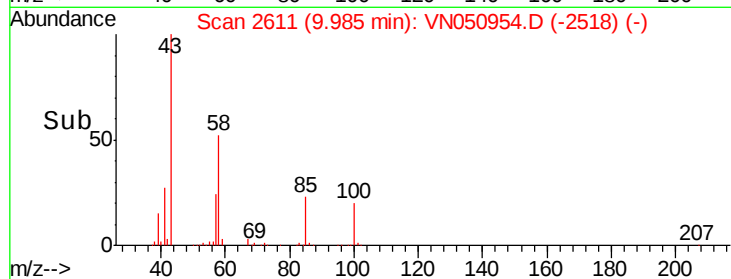
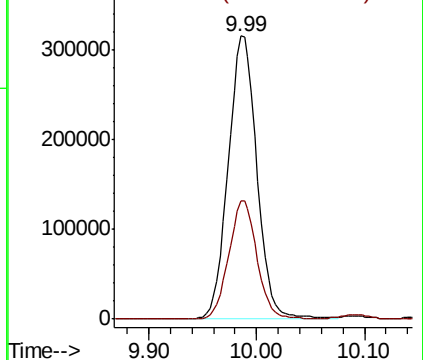
MMDadoda

8/31/2018 11:32:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.53 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN050954.D

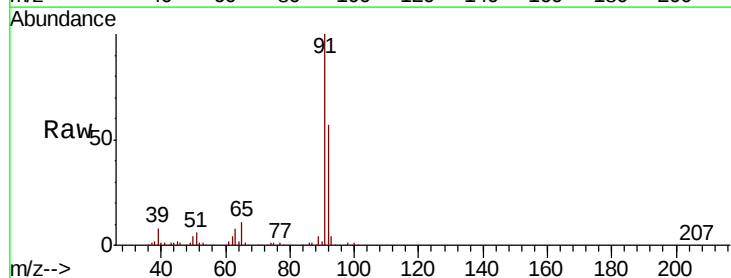
Acq: 30 Aug 2018 11:43

Tgt Ion: 92 Resp: 358860

Ion Ratio Lower Upper

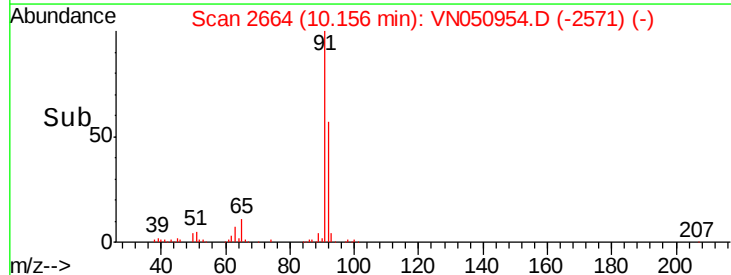
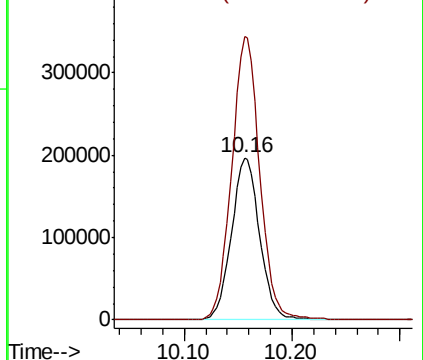
92 100

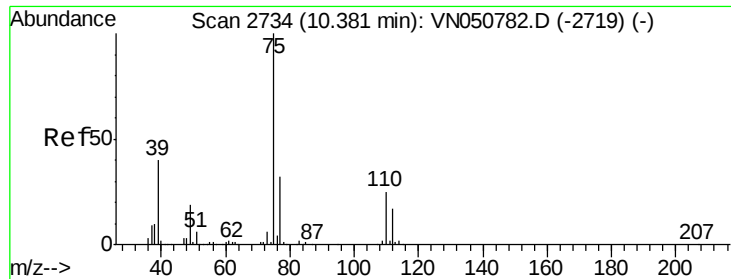
91 174.2 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





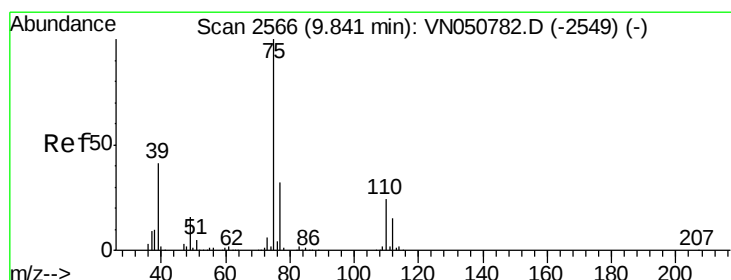
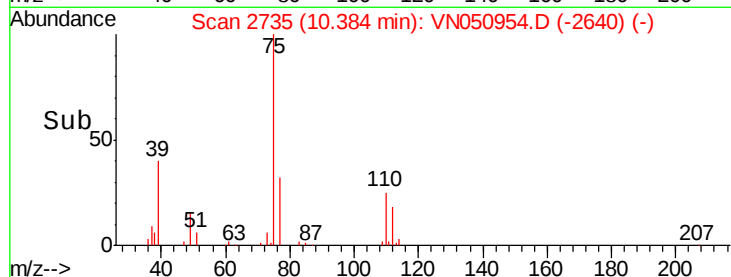
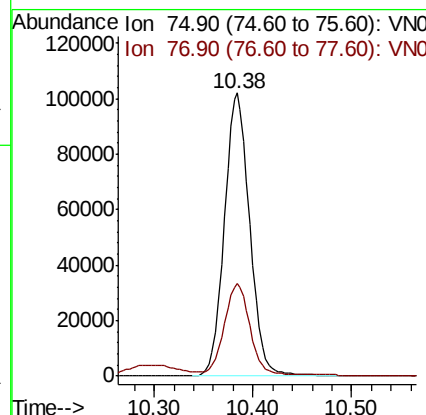
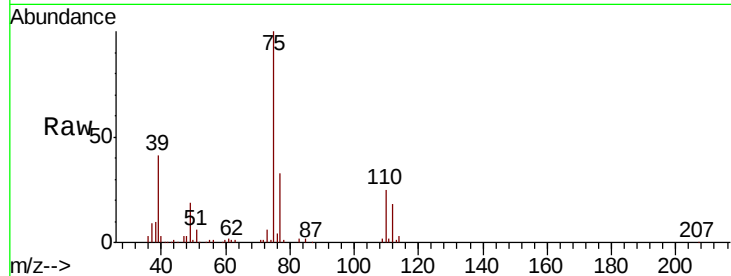
#53  
t-1,3-Dichloropropene  
Concen: 19.30 ug/l  
RT: 10.38 min Scan# 2735  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.3  | 25.7  | 38.5  |

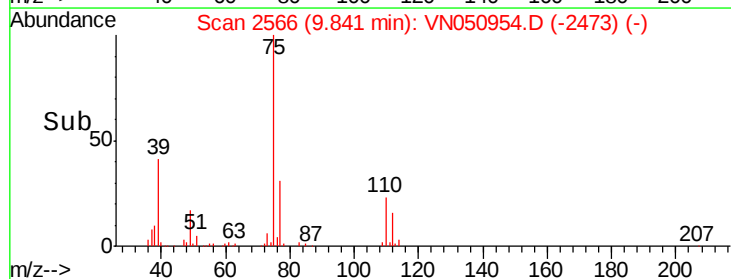
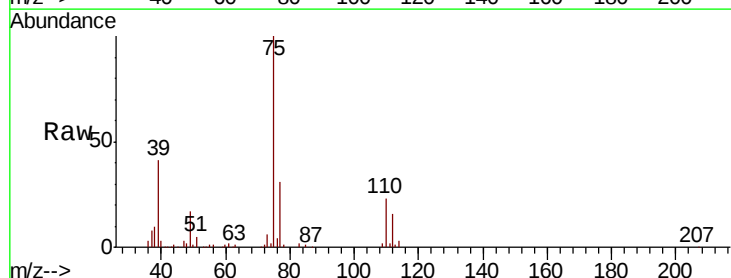
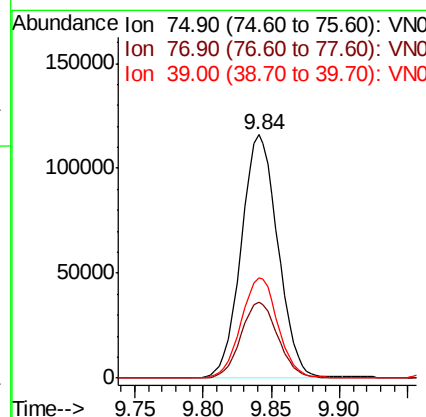
Manual Integrations  
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8/31/2018 11:32:22 AM



#54  
cis-1,3-Dichloropropene  
Concen: 19.97 ug/l  
RT: 9.84 min Scan# 2566  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.3  | 25.4  | 38.2  |
| 39      | 41.1  | 33.0  | 49.4  |





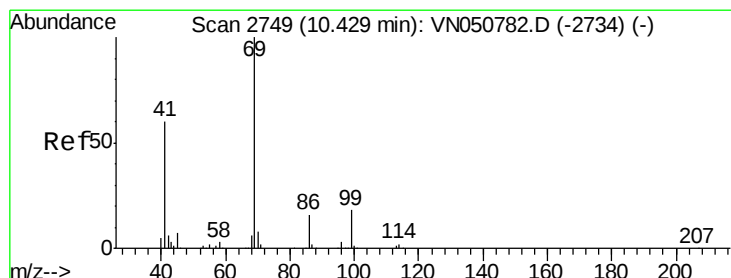
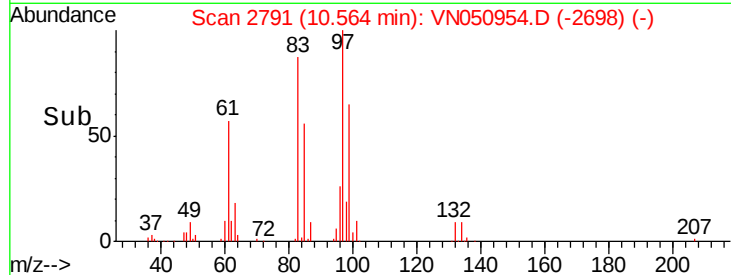
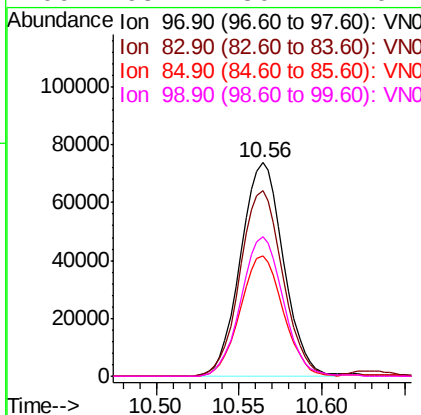
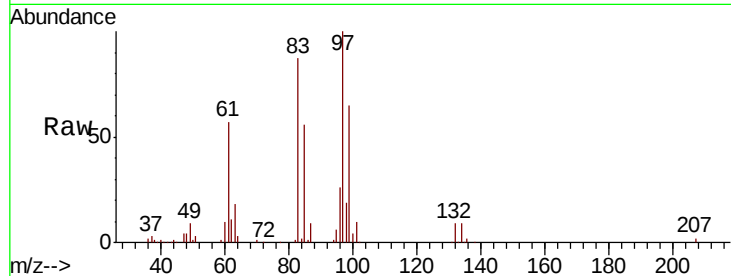
#55  
 1,1,2-Trichloroethane  
 Concen: 20.58 ug/l  
 RT: 10.56 min Scan# 2791  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0830WBS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 133501 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 86.7  | 69.7  | 104.5  |
| 85       | 56.4  | 44.5  | 66.7   |
| 99       | 65.2  | 50.7  | 76.1   |

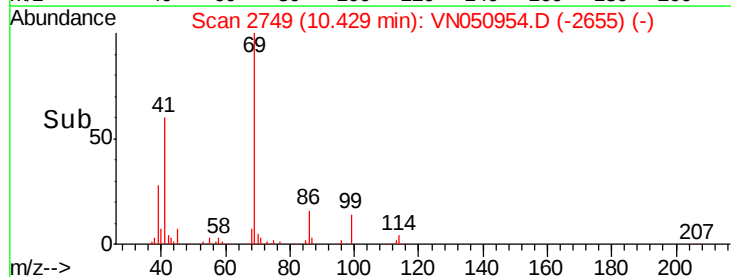
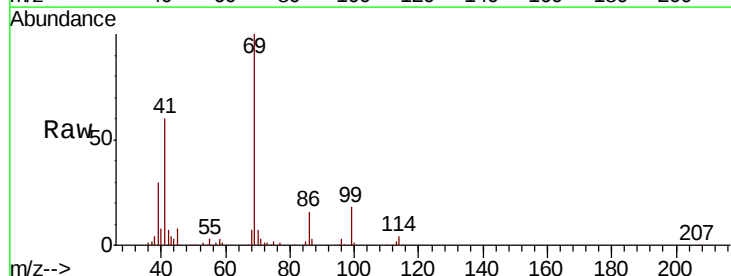
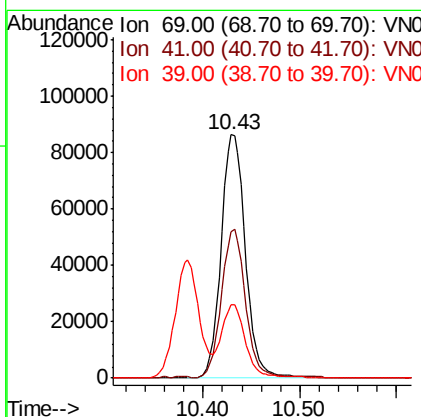
Manual Integrations  
 APPROVED

MMDadoda  
 8/31/2018 11:32:22 AM



#56  
 Ethyl methacrylate  
 Concen: 19.37 ug/l  
 RT: 10.43 min Scan# 2749  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 150712 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 59.8  | 48.3  | 72.5   |
| 39       | 29.9  | 24.0  | 36.0   |





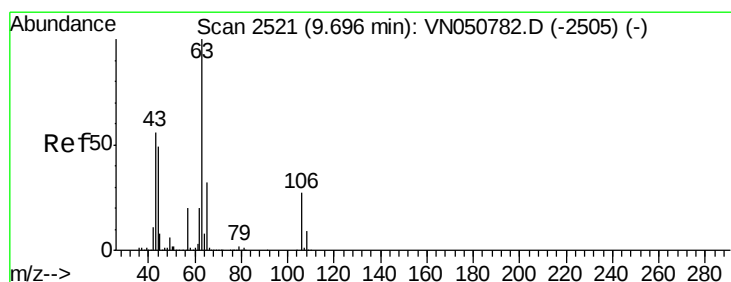
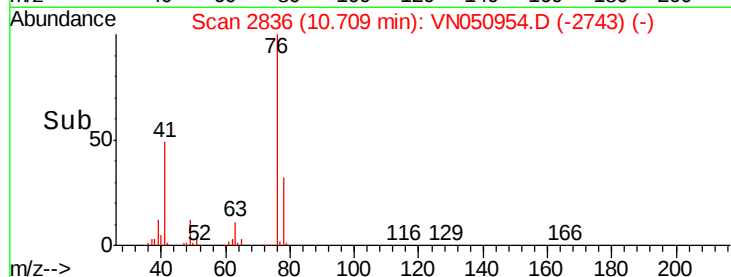
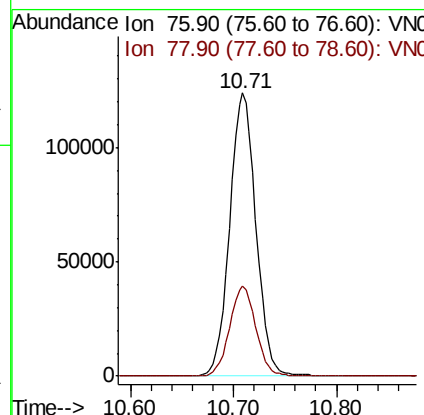
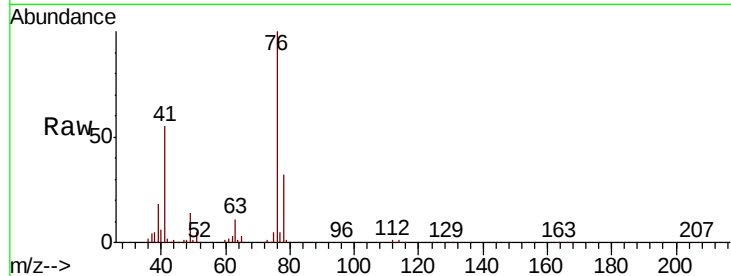
#57  
 1,3-Dichloropropane  
 Concen: 20.53 ug/l  
 RT: 10.71 min Scan# 2836  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 31.9  | 25.5  | 38.3  |

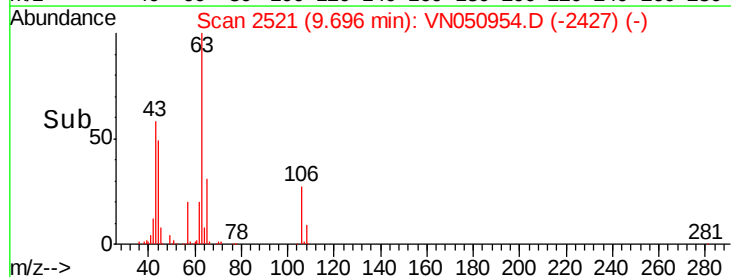
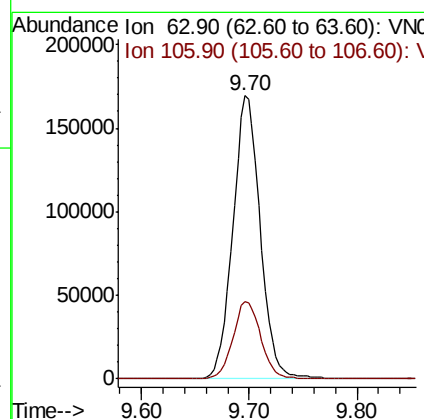
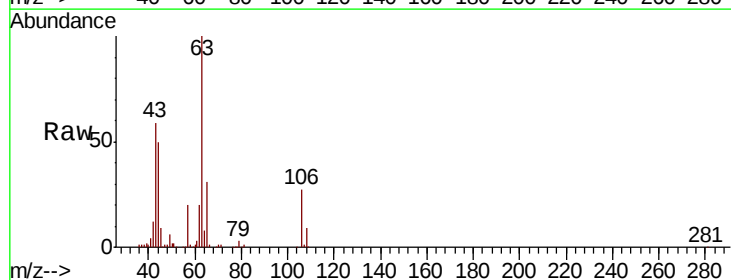
Manual Integrations  
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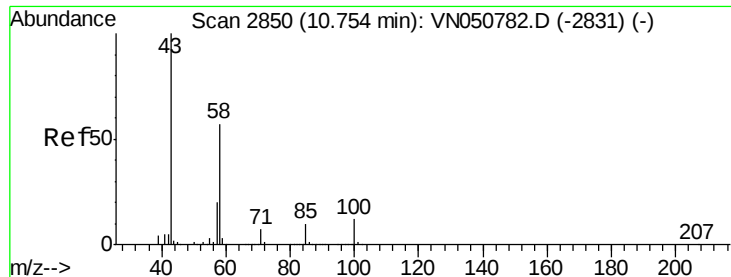
MMDadoda  
 8/31/2018 11:32:22 AM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 89.74 ug/l  
 RT: 9.70 min Scan# 2521  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 106     | 27.8  | 21.9  | 32.9  |





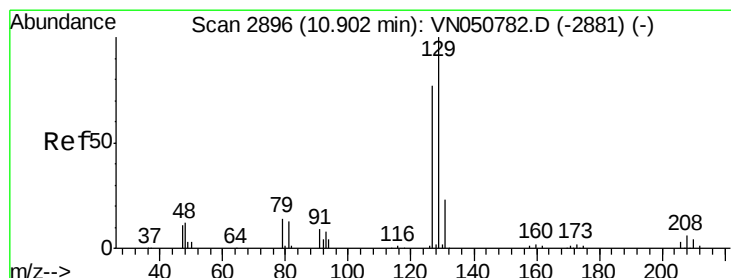
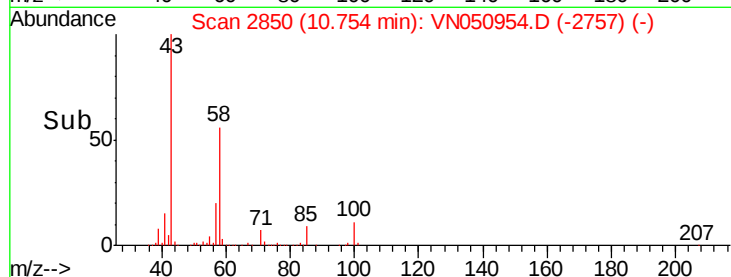
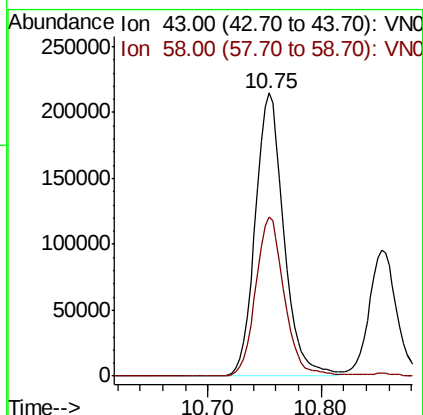
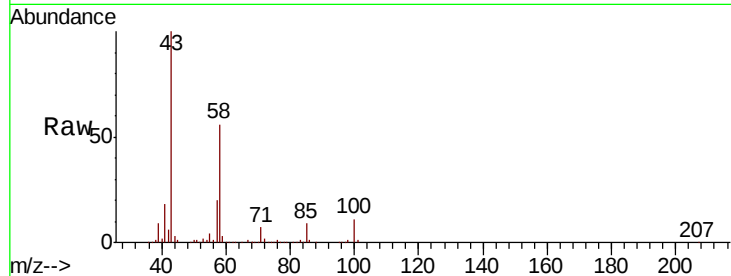
#59  
2-Hexanone  
Concen: 97.87 ug/l  
RT: 10.75 min Scan# 2850  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

| Tot Ion   | 43 | Resp | 375794 |
|-----------|----|------|--------|
| Ion Ratio | 43 | 100  |        |
| Lower     | 58 | 56.7 | 28.3   |
| Upper     |    |      | 85.0   |

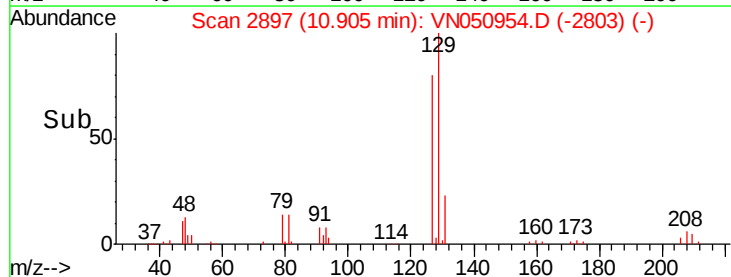
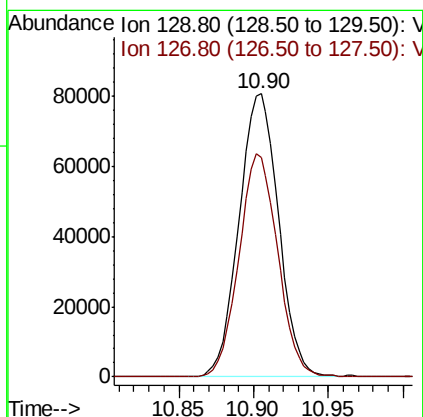
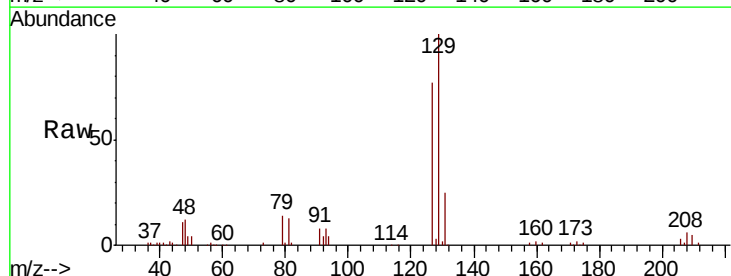
Manual Integrations  
APPROVED

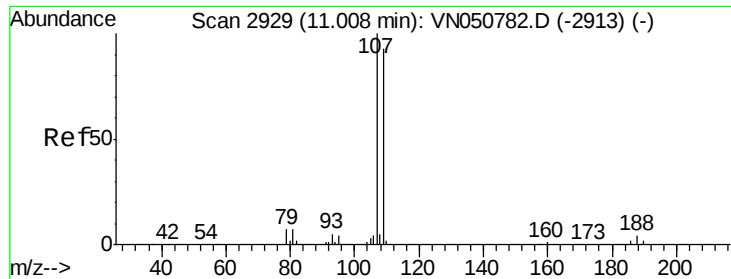
MMDadoda  
8/31/2018 11:32:22 AM



#60  
Dibromochloromethane  
Concen: 20.50 ug/l  
RT: 10.90 min Scan# 2897  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion   | 129 | Resp | 148898 |
|-----------|-----|------|--------|
| Ion Ratio | 129 | 100  |        |
| Lower     | 127 | 77.1 | 38.3   |
| Upper     |     |      | 114.9  |





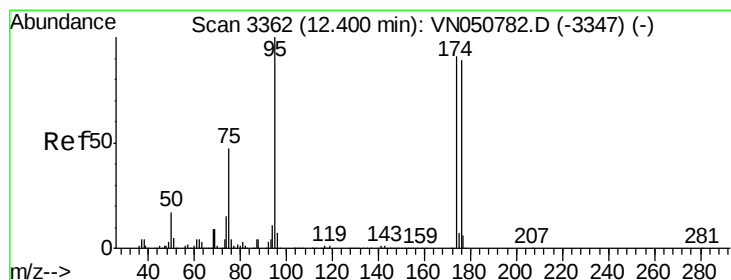
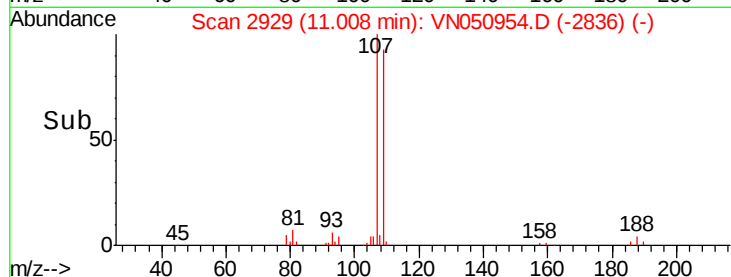
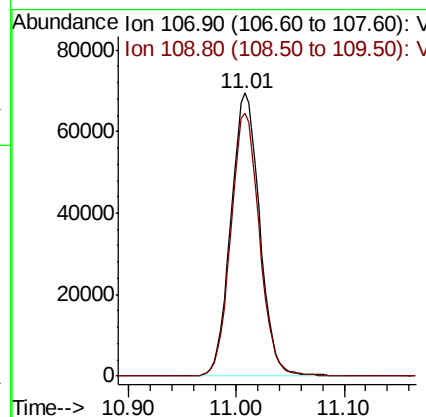
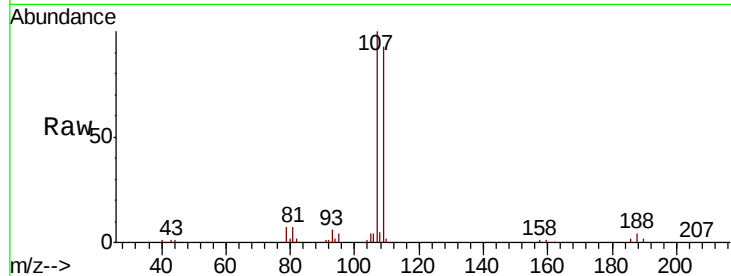
#61  
 1,2-Dibromoethane  
 Concen: 20.62 ug/l  
 RT: 11.01 min Scan# 2929  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.5  | 75.4  | 113.2 |

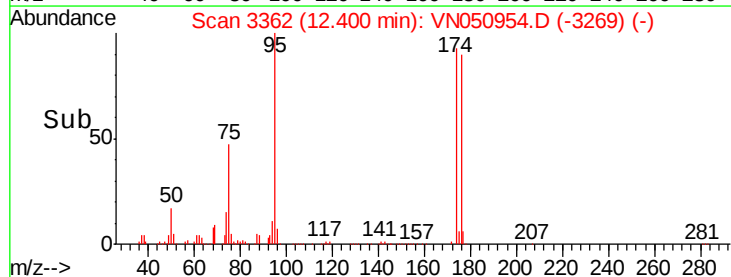
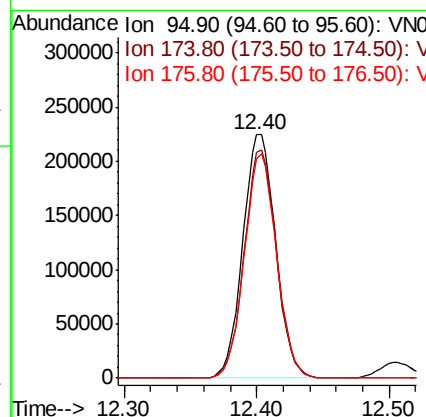
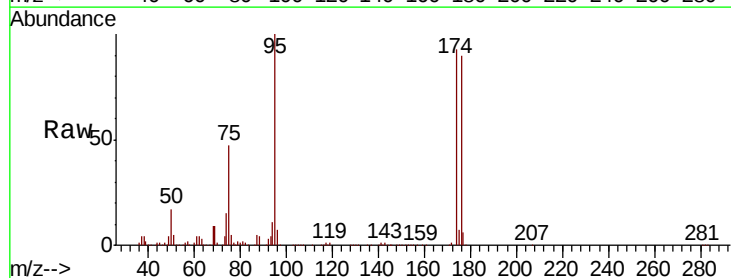
Manual Integrations  
 APPROVED

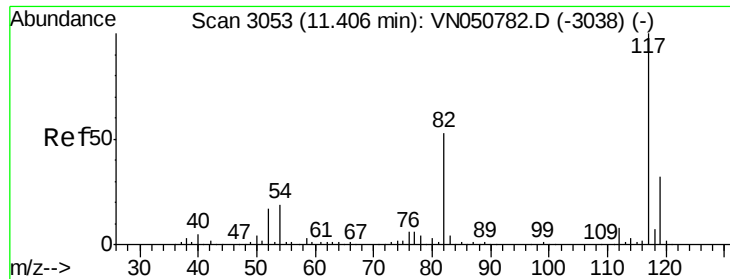
MMDadoda  
 8/31/2018 11:32:22 AM



#62  
 4-Bromofluorobenzene  
 Concen: 46.94 ug/l  
 RT: 12.40 min Scan# 3362  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 92.4  | 0.0   | 183.0 |
| 176     | 89.9  | 0.0   | 178.8 |





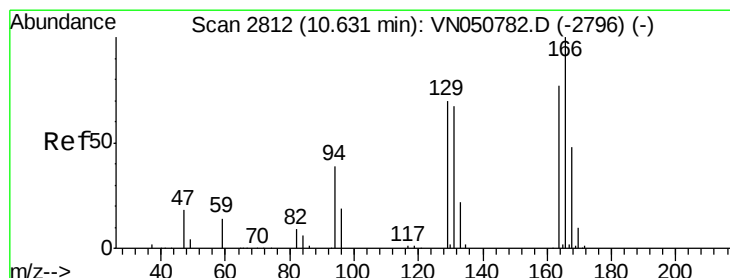
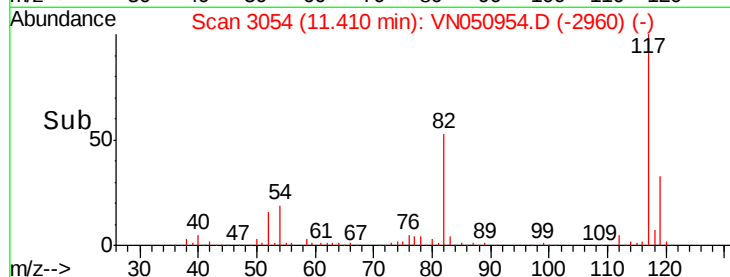
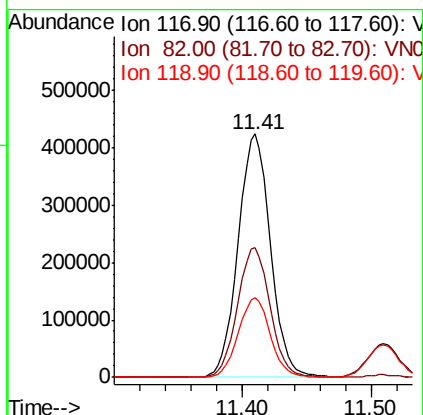
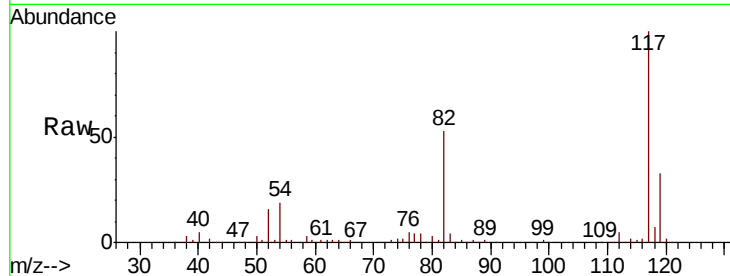
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.0  | 42.6  | 64.0  |
| 119     | 32.8  | 25.8  | 38.6  |

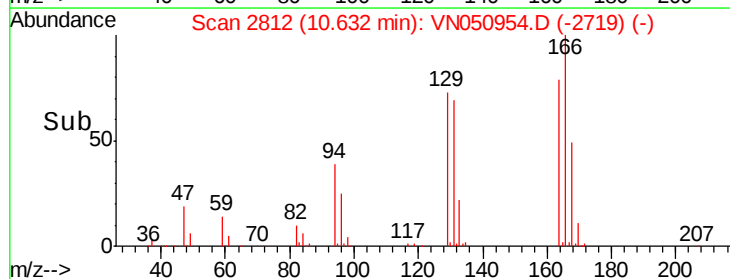
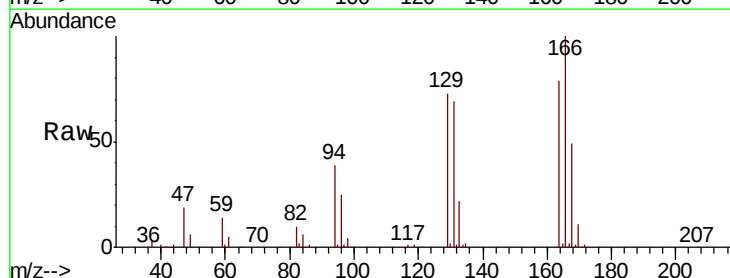
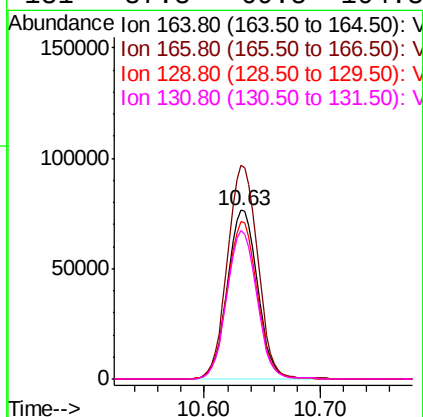
Manual Integrations  
APPROVED

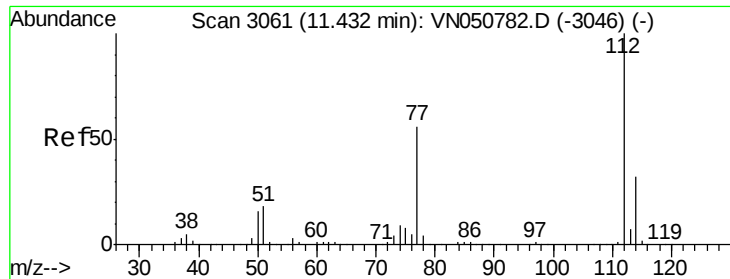
MMDadoda  
8/31/2018 11:32:22 AM



#64  
Tetrachloroethene  
Concen: 19.53 ug/l  
RT: 10.63 min Scan# 2812  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.6 | 103.5 | 155.3 |
| 129     | 93.0  | 72.7  | 109.1 |
| 131     | 87.8  | 69.5  | 104.3 |





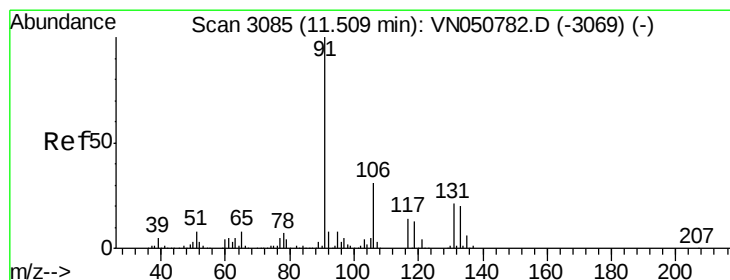
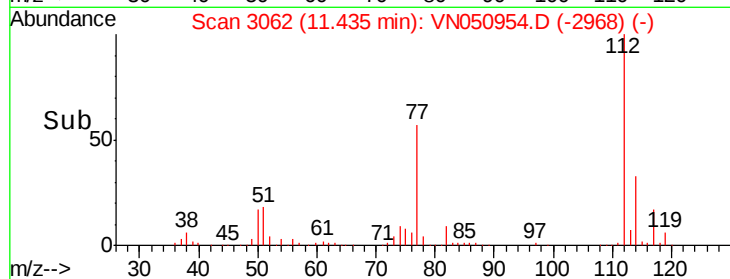
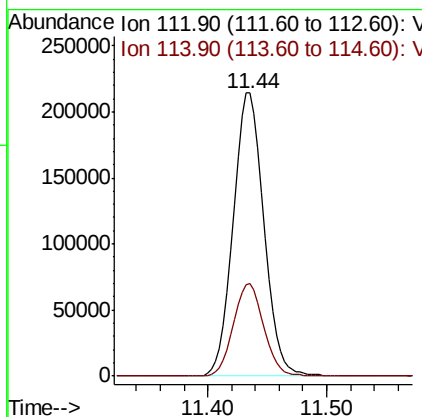
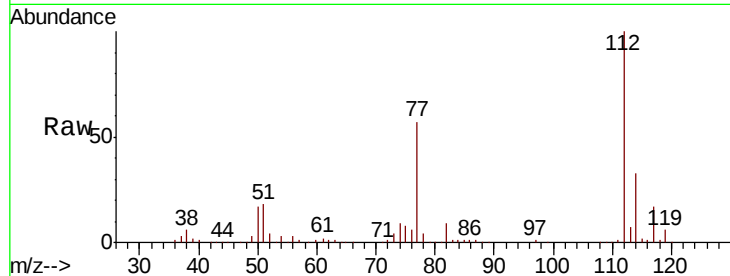
#65  
Chlorobenzene  
Concen: 19.70 ug/l  
RT: 11.44 min Scan# 3062  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

Tot Ion:112 Resp: 382458  
Ion Ratio Lower Upper  
112 100  
114 32.7 25.6 38.4

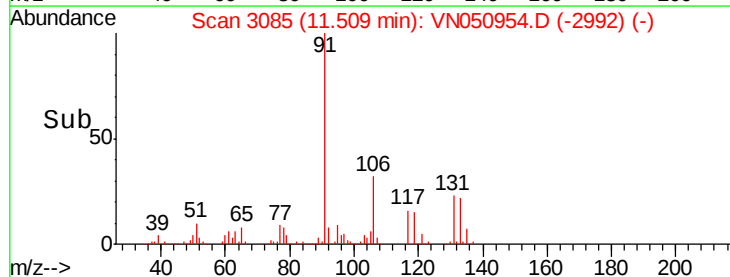
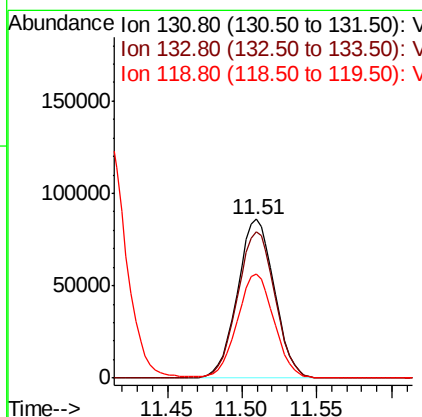
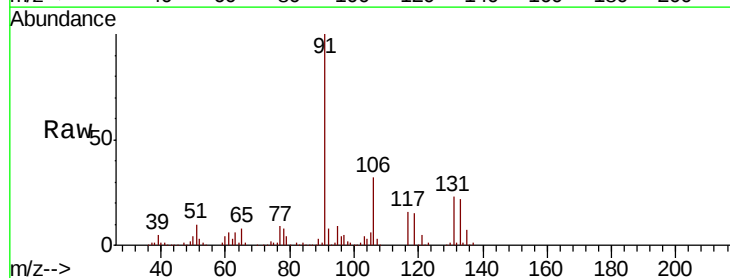
Manual Integrations  
APPROVED

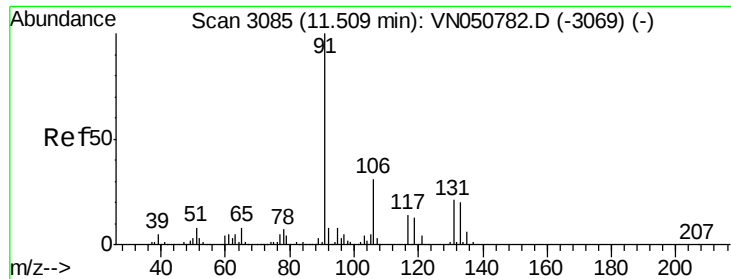
MMDadoda  
8/31/2018 11:32:22 AM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.80 ug/l  
RT: 11.51 min Scan# 3085  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Tgt Ion:131 Resp: 147704  
Ion Ratio Lower Upper  
131 100  
133 93.8 47.4 142.3  
119 65.5 32.8 98.4





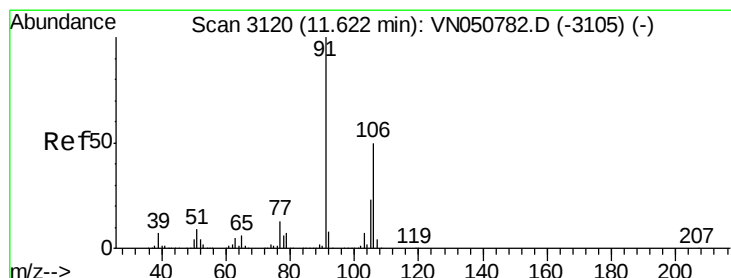
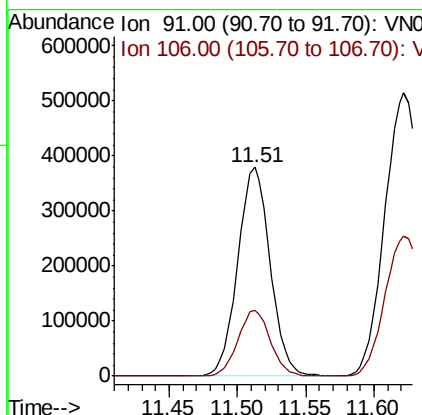
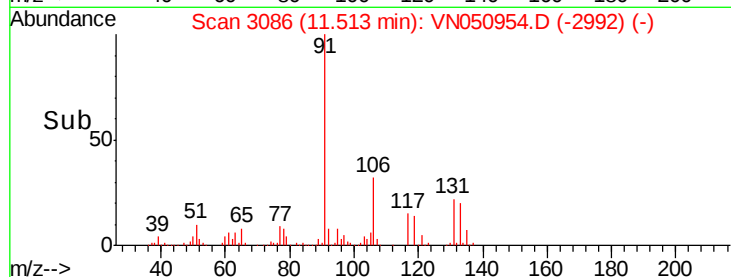
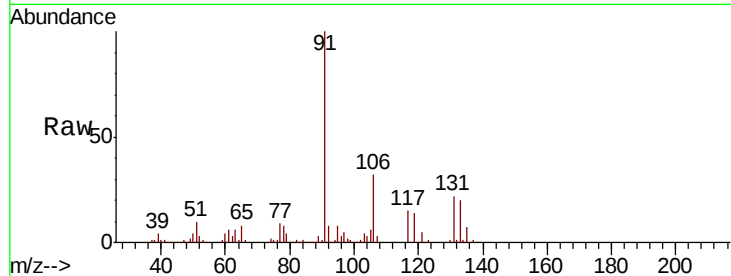
#67  
Ethyl Benzene  
Concen: 19.85 ug/l  
RT: 11.51 min Scan# 3086  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

Tot Ion: 91 Resp: 626406  
Ion Ratio Lower Upper  
91 100  
106 31.7 25.0 37.4

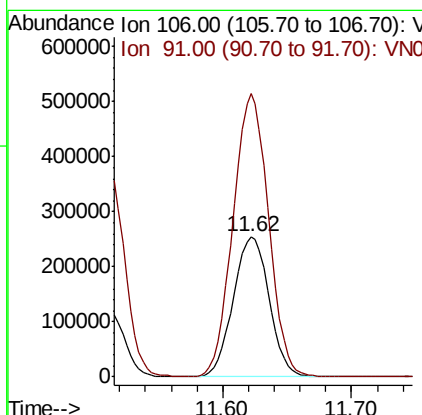
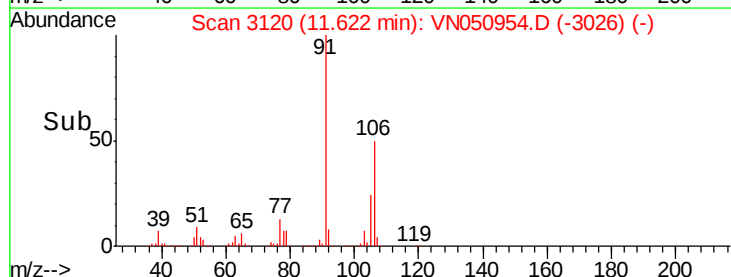
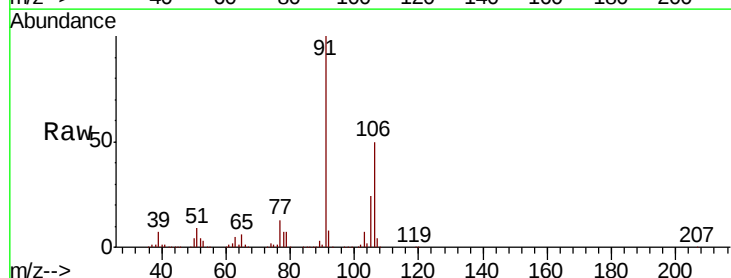
Manual Integrations  
APPROVED

MMDadoda  
8/31/2018 11:32:22 AM



#68  
m/p-Xylenes  
Concen: 41.01 ug/l  
RT: 11.62 min Scan# 3120  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Tgt Ion: 106 Resp: 491260  
Ion Ratio Lower Upper  
106 100  
91 200.4 161.0 241.6





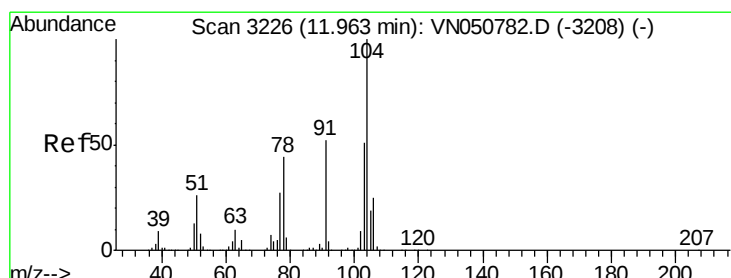
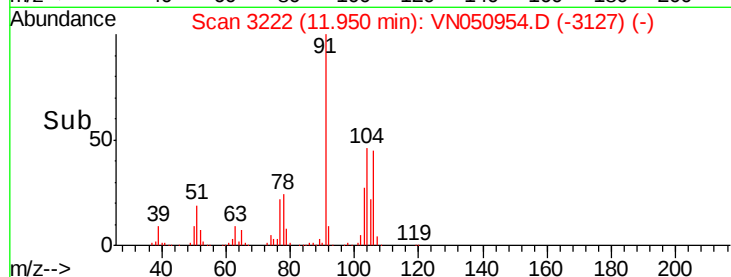
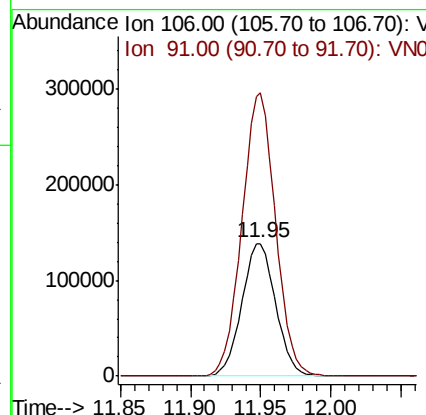
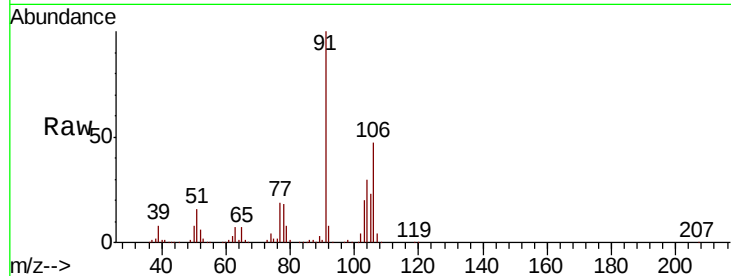
#69  
o-Xylene  
Concen: 20.23 ug/l  
RT: 11.95 min Scan# 3222  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 106     | 106 | 100   | 232918 |       |       |
| 91      | 91  | 211.8 | 106.5  | 319.5 |       |

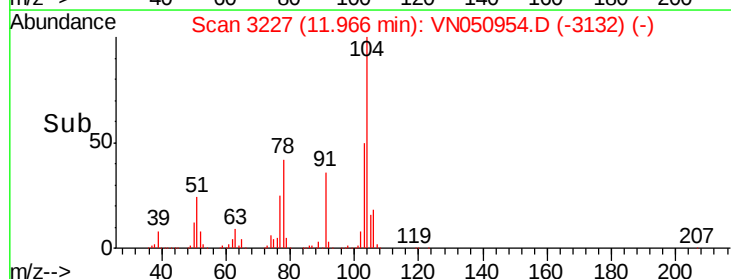
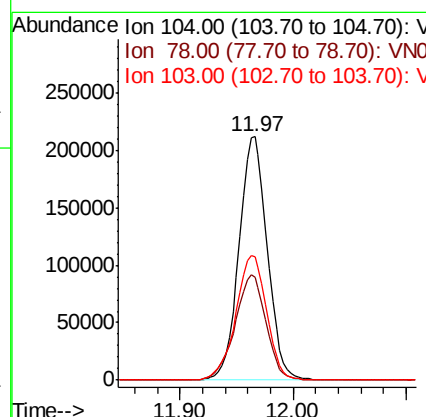
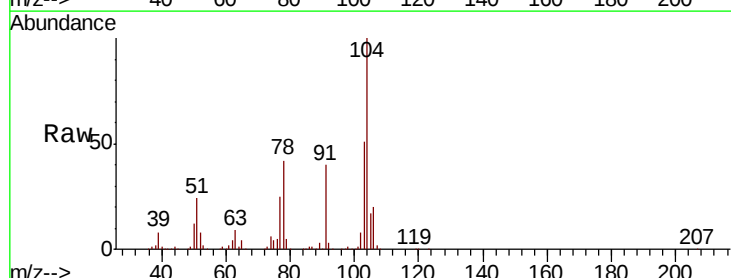
Manual Integrations  
APPROVED

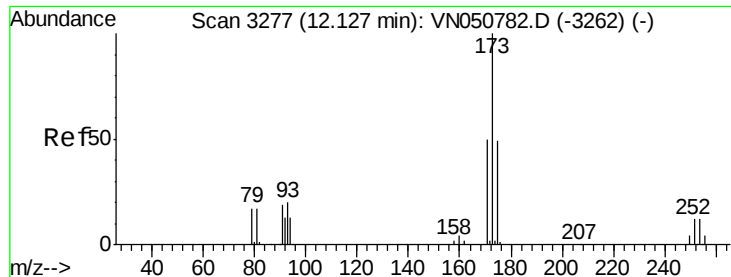
MMDadoda  
8/31/2018 11:32:22 AM



#70  
Styrene  
Concen: 18.95 ug/l  
RT: 11.97 min Scan# 3227  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 104     | 104 | 100   | 368193 |       |       |
| 78      | 78  | 47.5  | 38.2   | 57.4  |       |
| 103     | 103 | 56.0  | 44.4   | 66.6  |       |





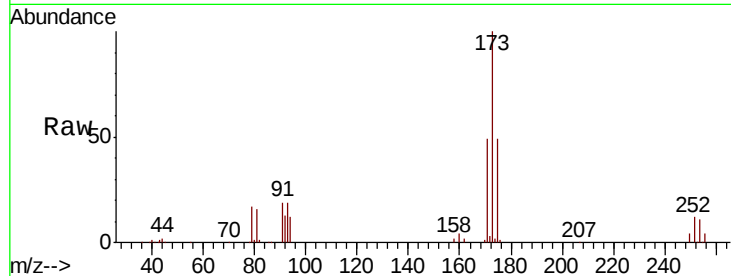
#71  
Bromoform  
Concen: 21.01 ug/l  
RT: 12.13 min Scan# 3277  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.6  | 24.4  | 73.4  |
| 254     | 0.1   | 0.1   | 0.1   |

Manual Integrations  
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8/31/2018 11:32:22 AM

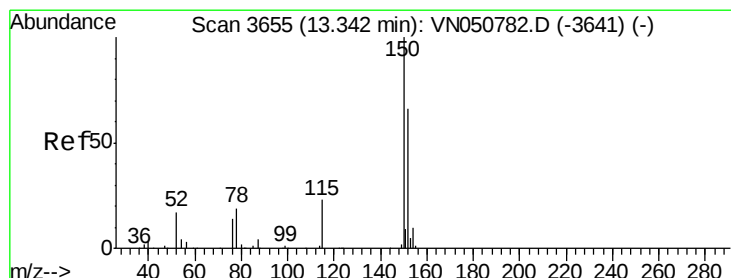
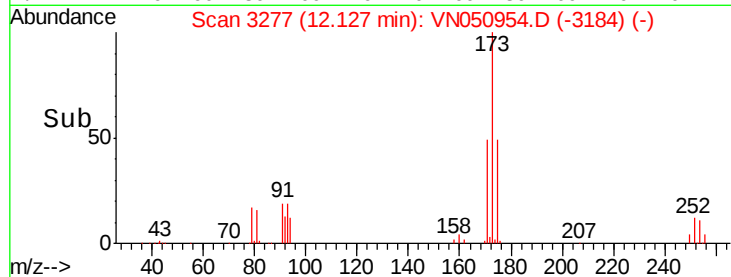
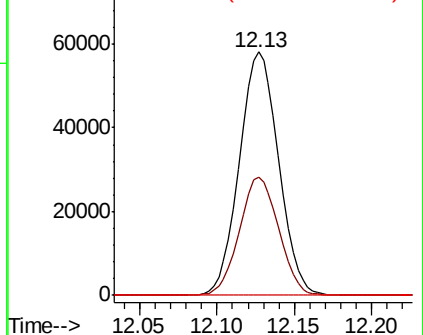


Abundance

Ion 172.70 (172.40 to 173.40): V

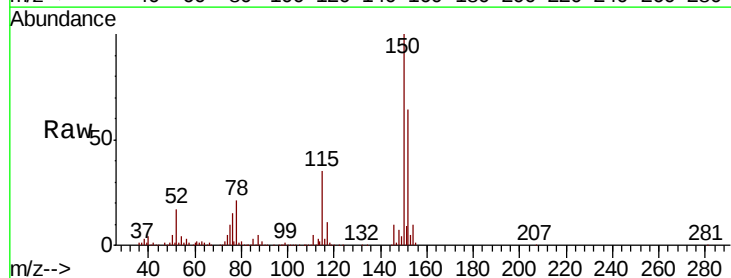
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3656  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.4  | 27.8  | 83.4  |
| 150     | 163.4 | 0.0   | 351.4 |

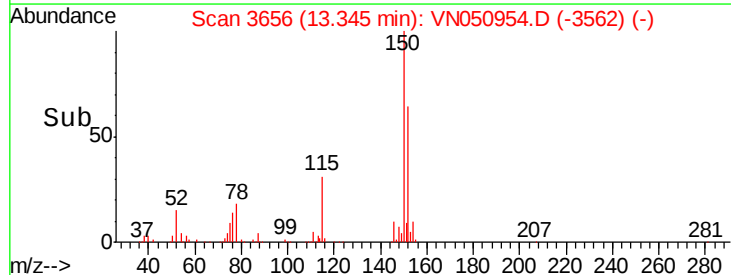
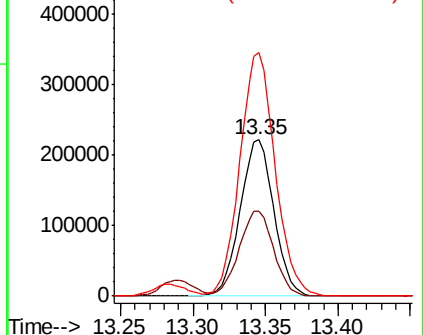


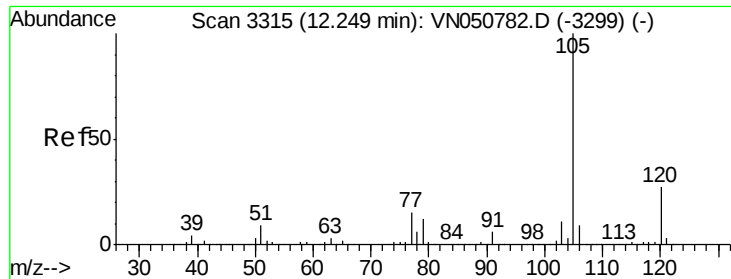
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





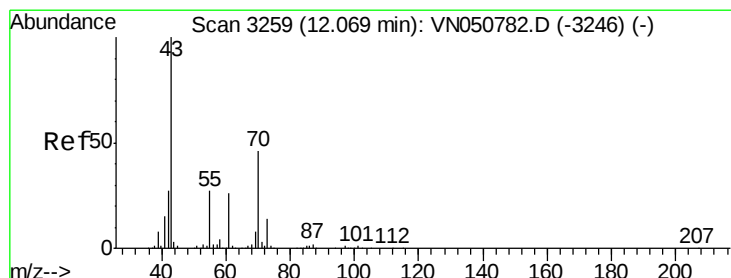
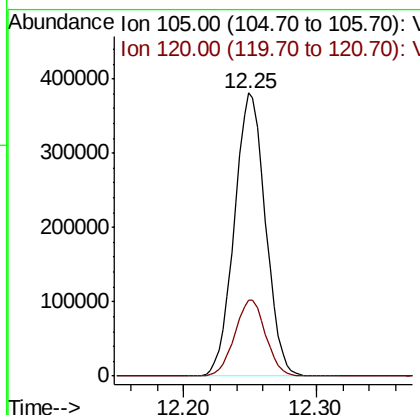
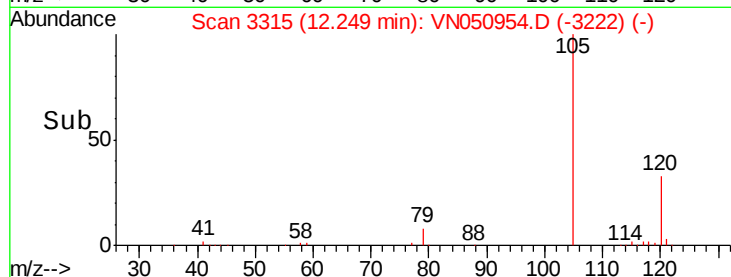
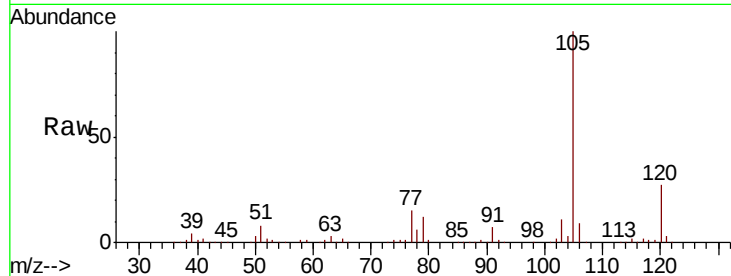
#73  
Isopropylbenzene  
Concen: 20.88 ug/l  
RT: 12.25 min Scan# 3315  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.9  | 13.5  | 40.4  |

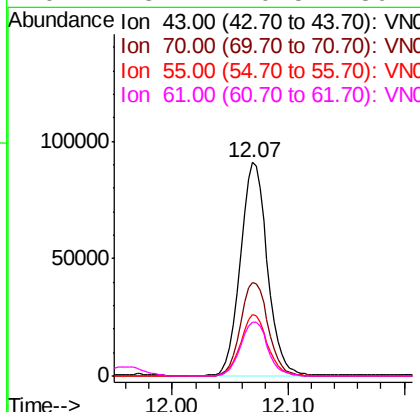
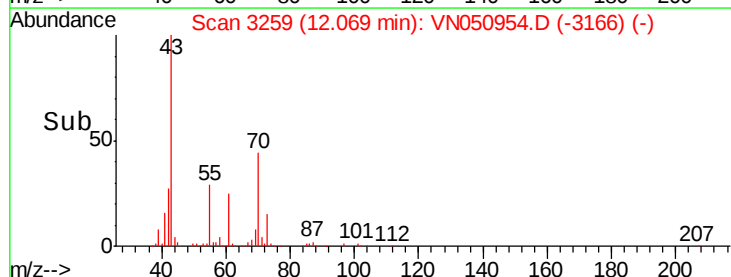
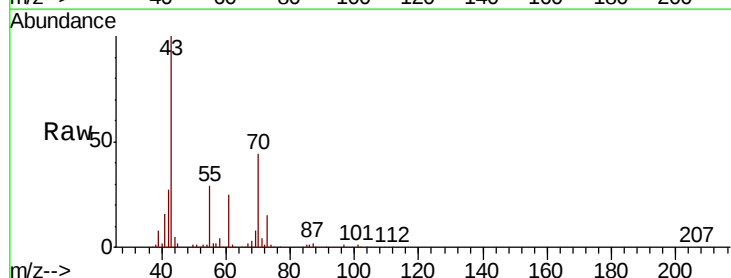
Manual Integrations  
APPROVED

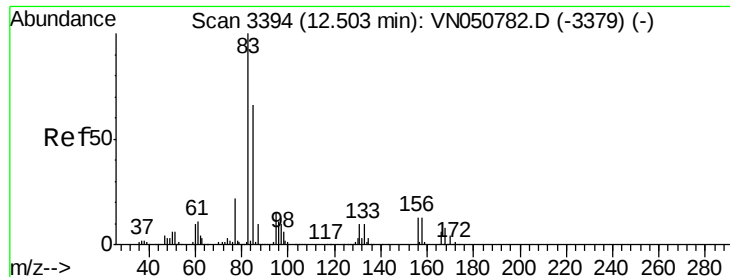
MMDadoda  
8/31/2018 11:32:22 AM



#74  
N-ethyl acetate  
Concen: 19.81 ug/l  
RT: 12.07 min Scan# 3259  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 70      | 44.7  | 36.2  | 54.2  |
| 55      | 28.4  | 21.8  | 32.8  |
| 61      | 25.4  | 20.5  | 30.7  |





#75

1,1,2,2-Tetrachloroethane

Concen: 22.74 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

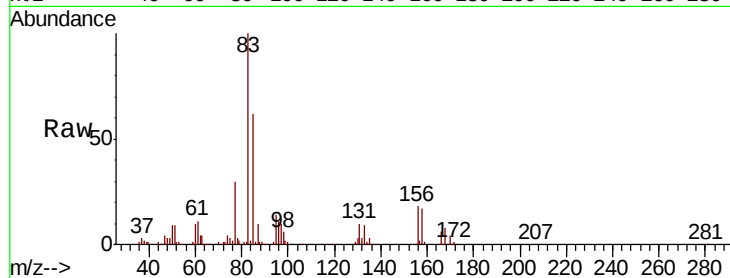
ClientSampleId :

VN0830WBS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 167030 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.4  | 5.3   | 15.9   |
| 85        | 63.6  | 31.9  | 95.7   |

Manual Integrations  
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Abundance Ion 82.90 (82.60 to 83.60): VN050782.D (-3379) (-)

Ion 130.80 (130.50 to 131.50): VN050782.D (-3379) (-)

Ion 84.90 (84.60 to 85.60): VN050782.D (-3379) (-)

12.51

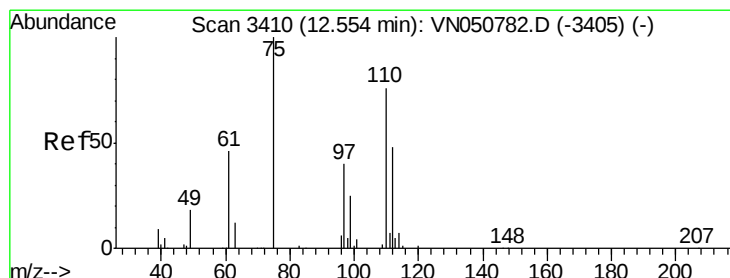
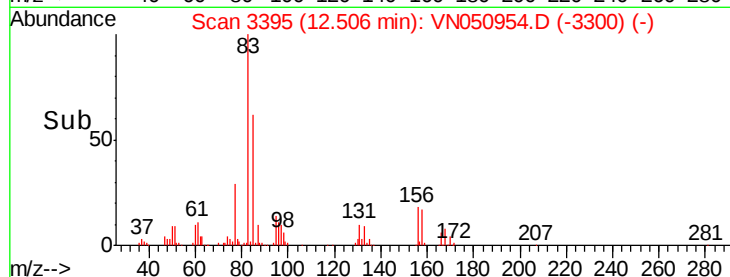
100000

50000

0

12.45 12.50 12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 22.72 ug/l m

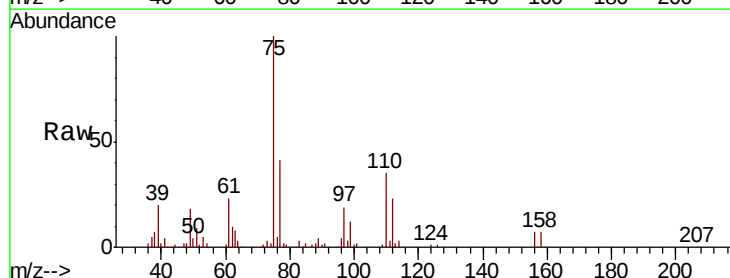
RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 142480 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 0.0   | 0.0   | 0.0    |



Abundance Ion 74.90 (74.60 to 75.60): VN050782.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN050782.D (-3405) (-)

150000

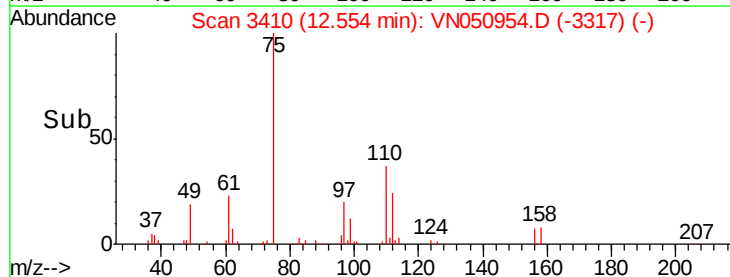
100000

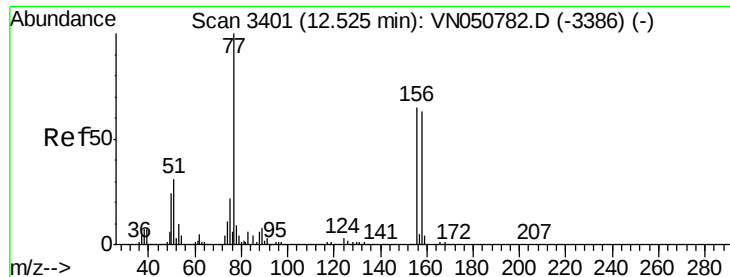
50000

0

12.55

Time-->





#77

Bromobenzene

Concen: 20.11 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

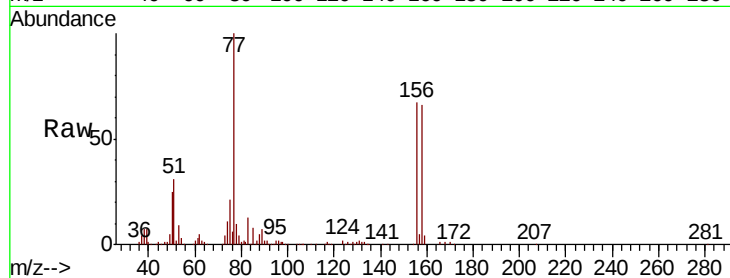
ClientSampled :

VN0830WBS01

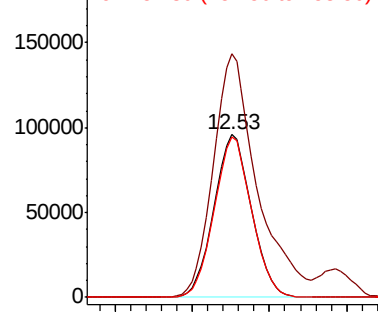
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 162033 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 175.4 | 89.9  | 269.7  |
| 158       | 97.9  | 49.3  | 147.9  |

Manual Integrations  
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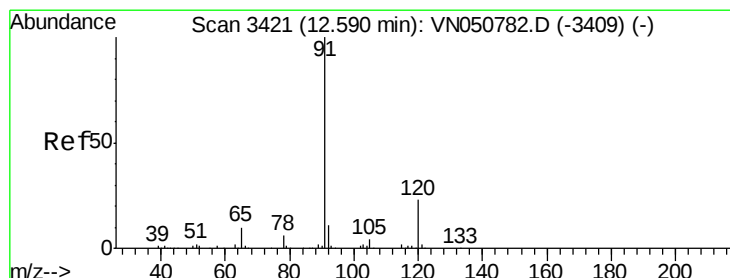
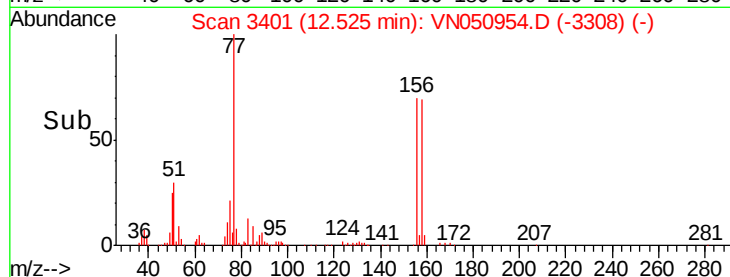
MMDadoda  
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Abundance Ion 155.80 (155.50 to 156.50): V  
Ion 77.00 (76.70 to 77.70): VN  
Ion 157.80 (157.50 to 158.50): V



Time-->



#78

n-propylbenzene

Concen: 20.44 ug/l

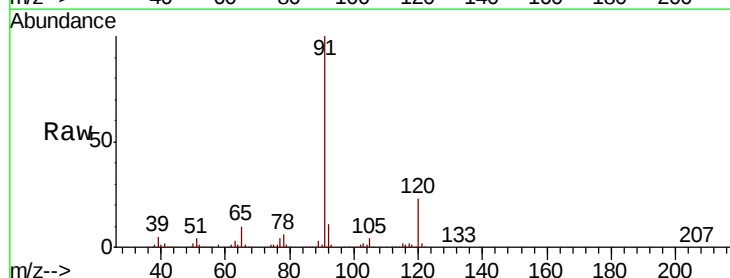
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

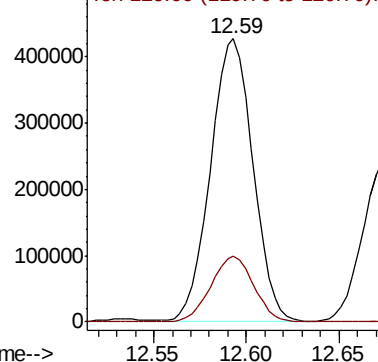
Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

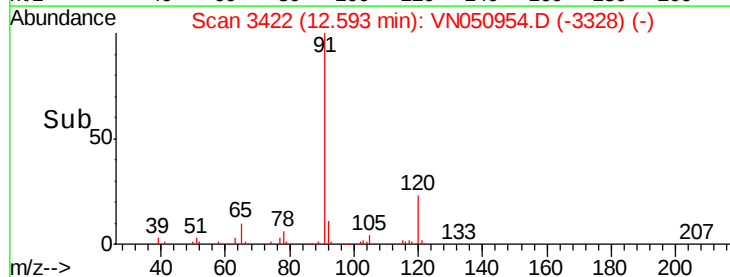
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 677070 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 23.4  | 11.7  | 35.0   |



Abundance Ion 91.00 (90.70 to 91.70): VN  
Ion 120.00 (119.70 to 120.70): V



Time-->





#79

2-Chlorotoluene

Concen: 20.48 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampled :

VN0830WBS01

Tot Ion: 91 Resp: 422595

Ion Ratio Lower Upper

91 100

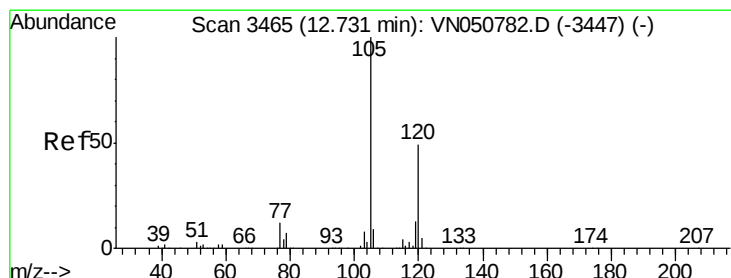
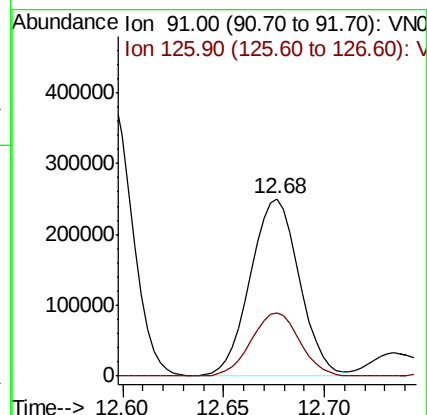
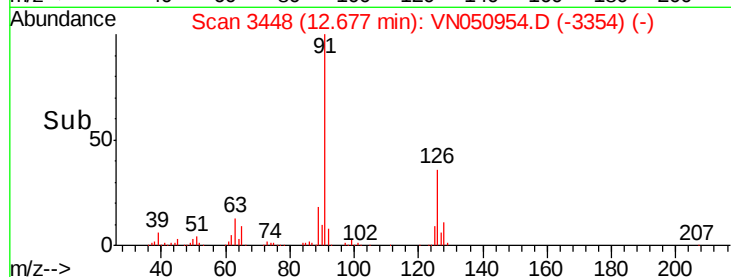
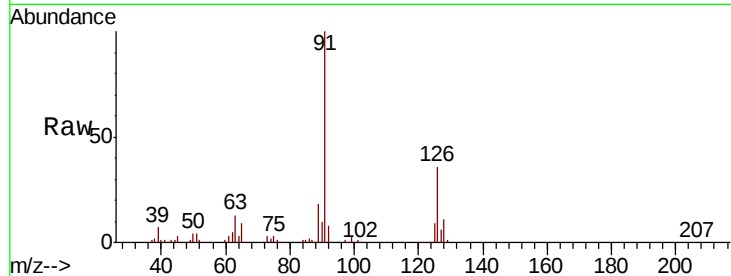
126 35.8 17.8 53.3

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#80

1,3,5-Trimethylbenzene

Concen: 21.37 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050954.D

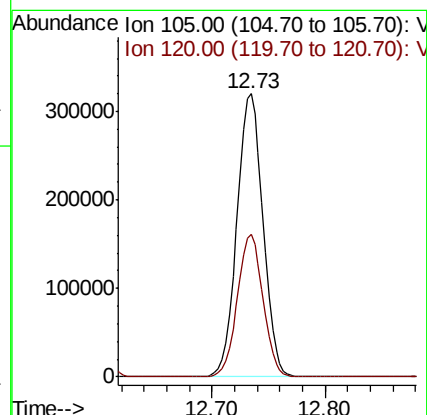
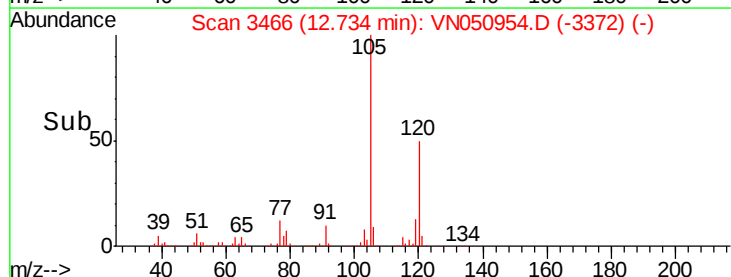
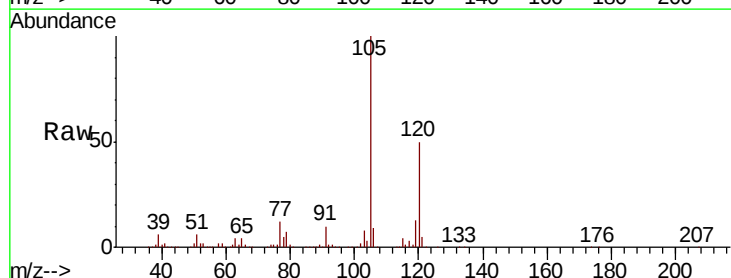
Acq: 30 Aug 2018 11:43

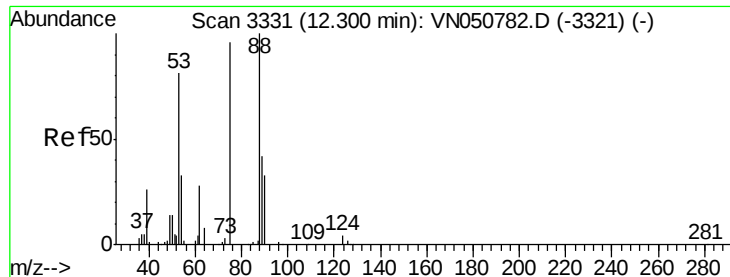
Tgt Ion: 105 Resp: 511283

Ion Ratio Lower Upper

105 100

120 49.6 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.31 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

ClientSampleId :

VN0830WBS01

Tot Ion: 75 Resp: 37688

Ion Ratio Lower Upper

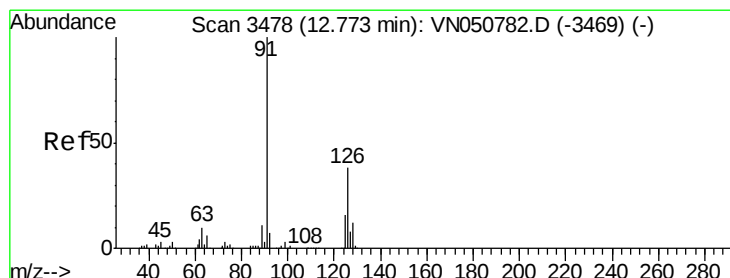
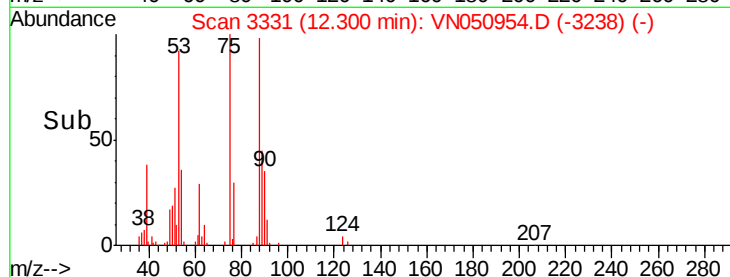
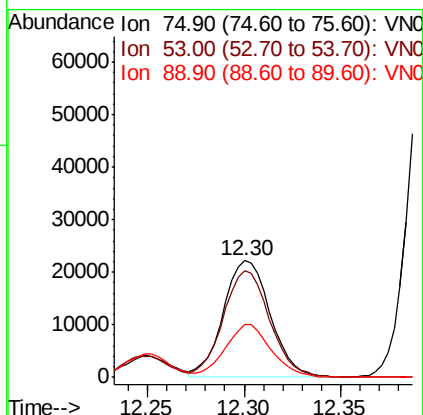
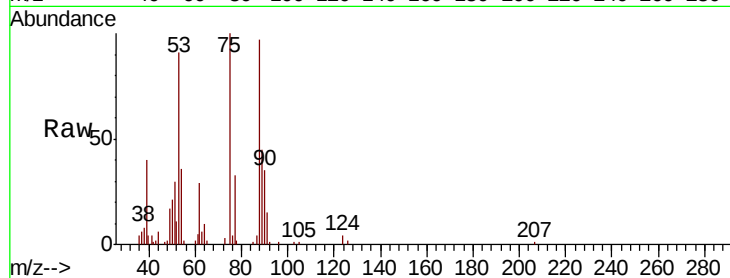
75 100

53 90.6 68.9 103.3

89 43.9 36.1 54.1

Manual Integrations  
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#82

4-Chlorotoluene

Concen: 20.15 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050954.D

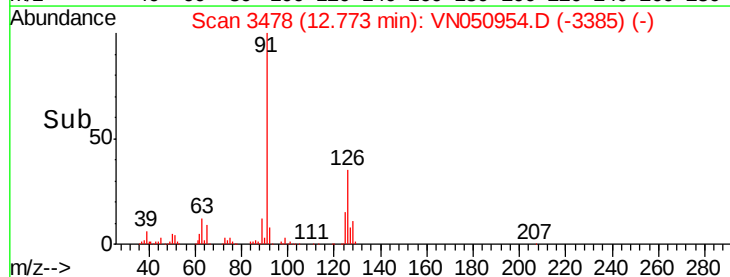
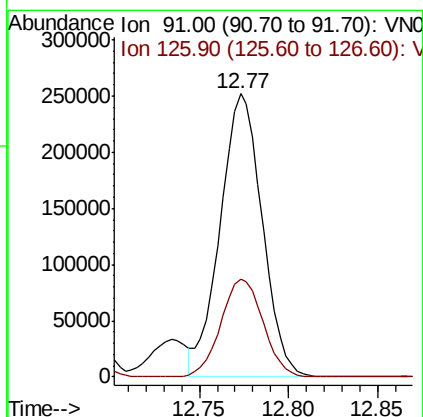
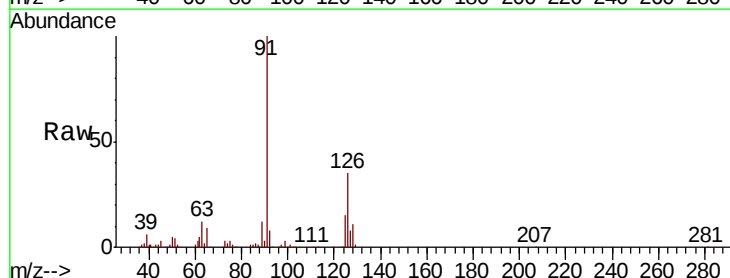
Acq: 30 Aug 2018 11:43

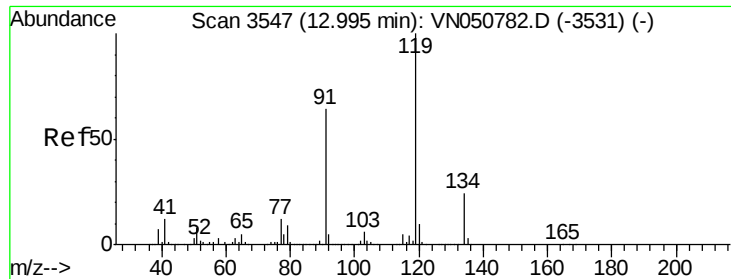
Tgt Ion: 91 Resp: 410499

Ion Ratio Lower Upper

91 100

126 34.9 17.5 52.5





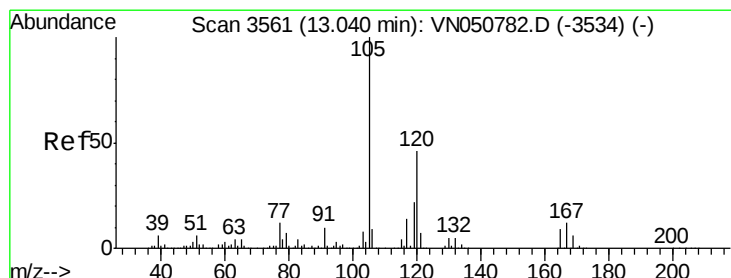
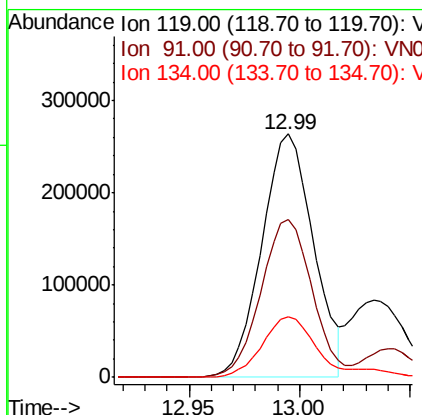
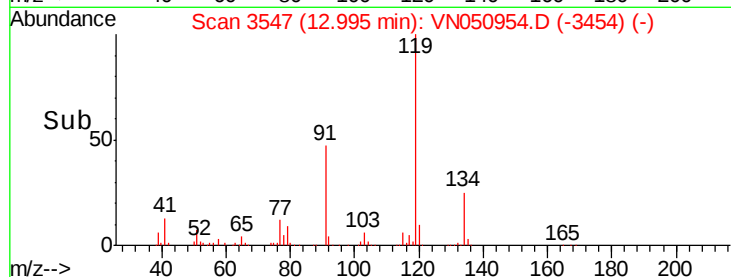
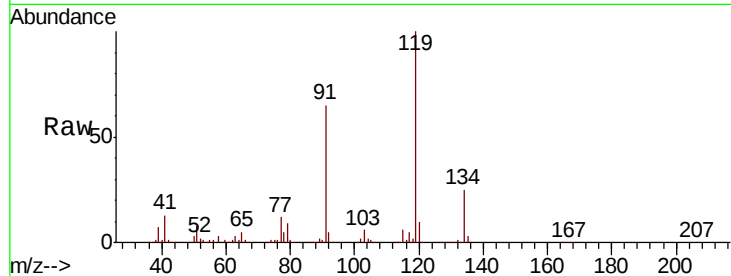
#83  
 tert-Butylbenzene  
 Concen: 20.69 ug/l  
 RT: 12.99 min Scan# 3547  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0830WBS01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 428744 |       |       |
| 91      | 64.6  | 31.6   | 94.7  |       |
| 134     | 25.4  | 13.4   | 40.1  |       |

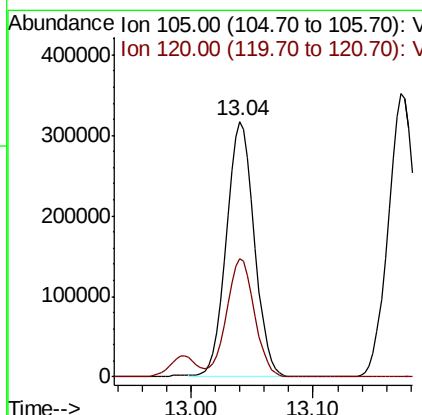
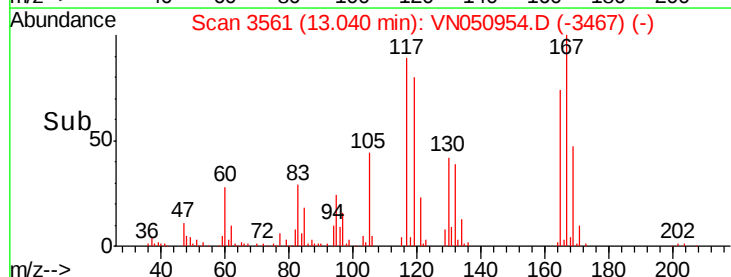
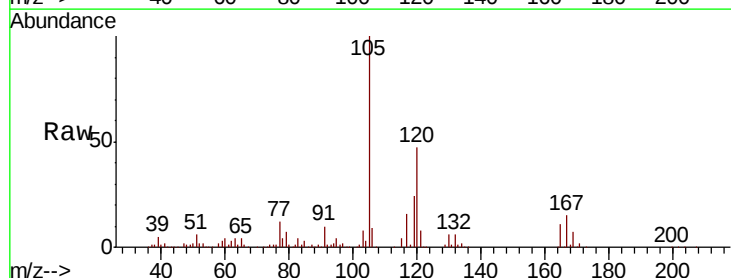
Manual Integrations  
 APPROVED

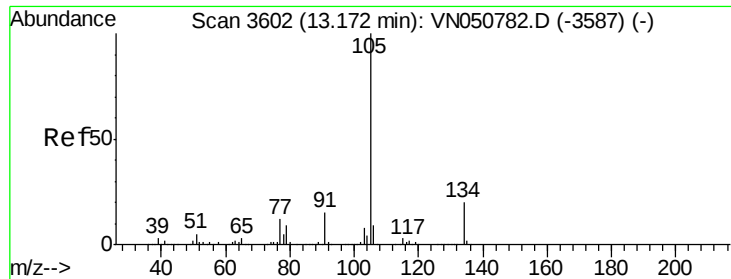
MMDadoda  
 8/31/2018 11:32:22 AM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 21.14 ug/l  
 RT: 13.04 min Scan# 3561  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 508829 |       |       |
| 120     | 46.2  | 22.9   | 68.8  |       |





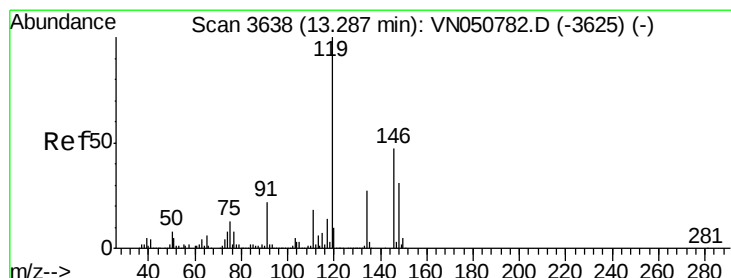
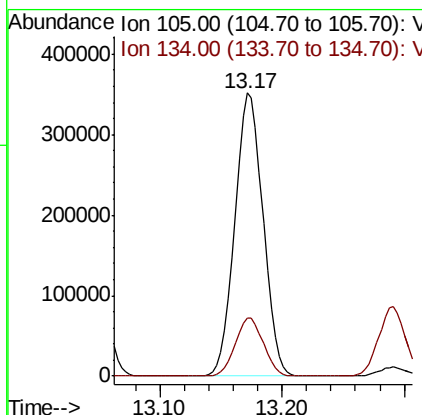
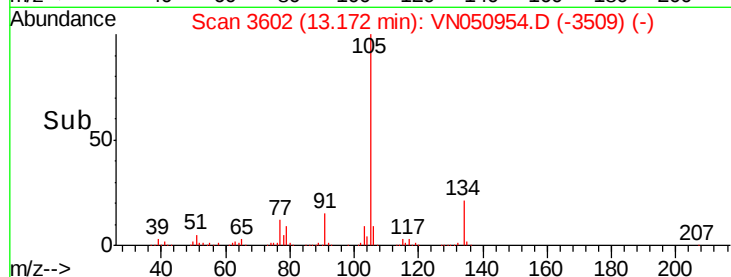
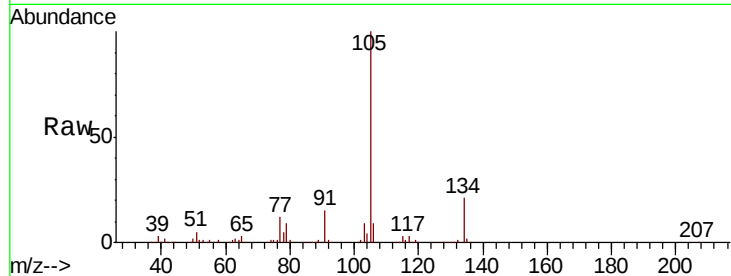
#85  
 sec-Butylbenzene  
 Concen: 20.70 ug/l  
 RT: 13.17 min Scan# 3602  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 20.6  | 10.3  | 30.8  |

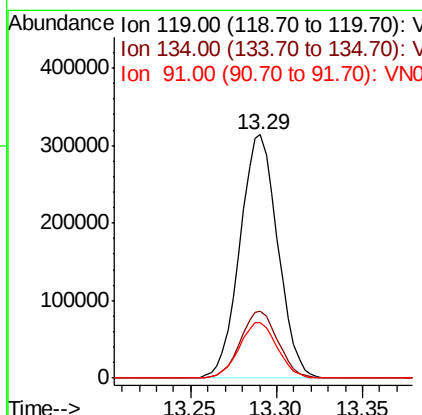
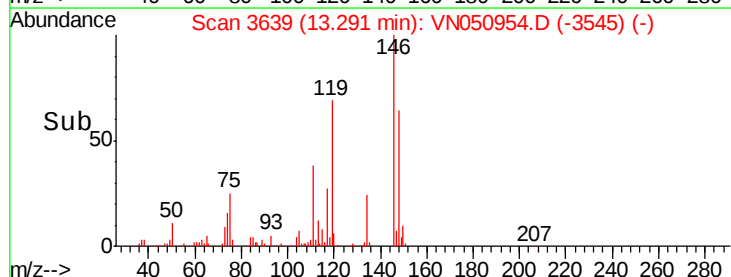
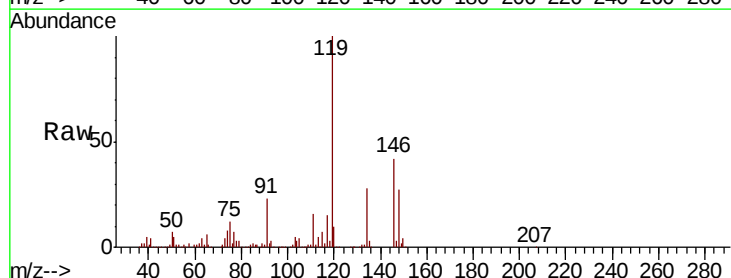
Manual Integrations  
 APPROVED

MMDadoda  
 8/31/2018 11:32:22 AM



#86  
 p-Isopropyltoluene  
 Concen: 20.71 ug/l  
 RT: 13.29 min Scan# 3639  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.4  | 13.7  | 41.0  |
| 91      | 22.8  | 11.2  | 33.5  |





#87

1,3-Dichlorobenzene

Concen: 19.50 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

Instrument :

MSVOA\_N

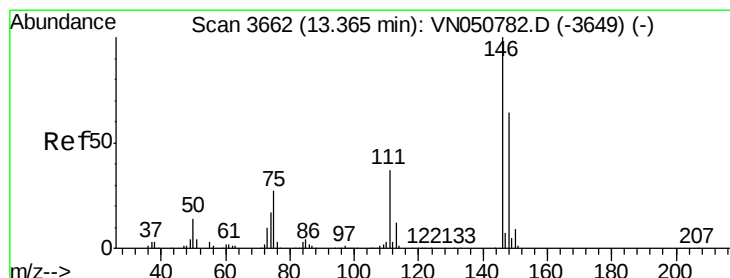
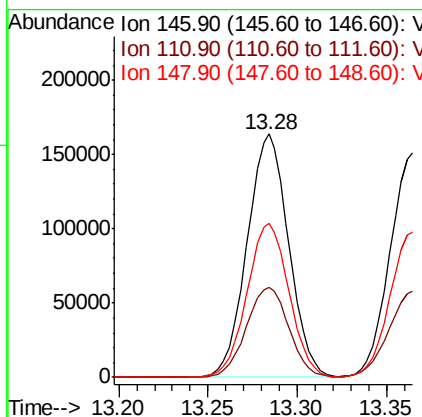
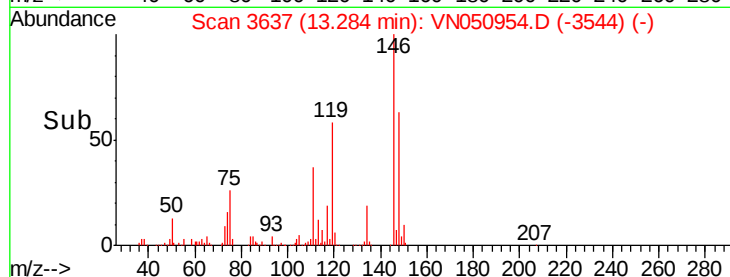
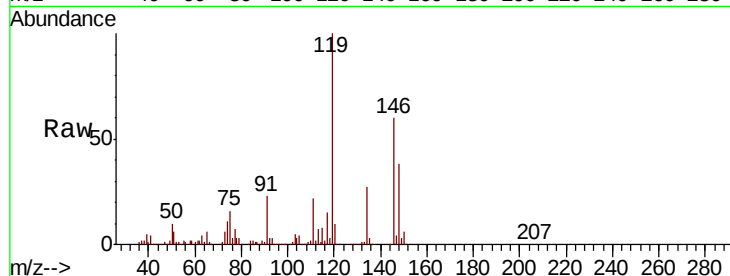
ClientSampled :

VN0830WBS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 266679 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 37.7  | 19.1  | 57.3   |
| 148       | 64.0  | 32.2  | 96.6   |

Manual Integrations  
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8/31/2018 11:32:22 AM



#88

1,4-Dichlorobenzene

Concen: 18.85 ug/l

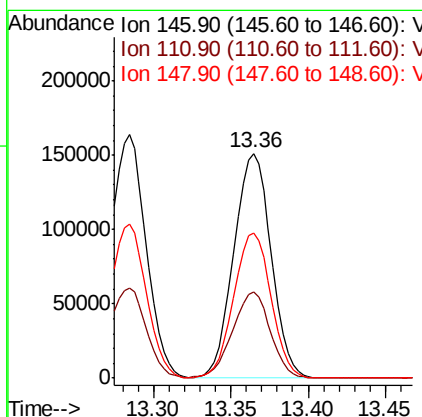
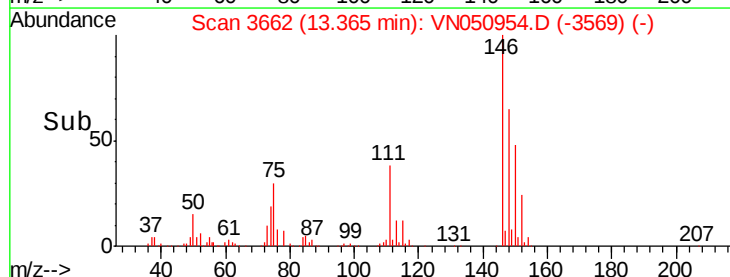
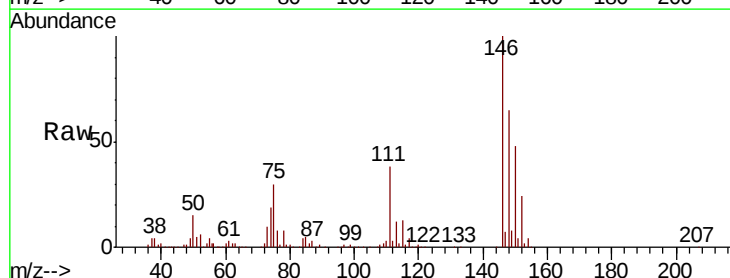
RT: 13.36 min Scan# 3662

Delta R.T. 0.00 min

Lab File: VN050954.D

Acq: 30 Aug 2018 11:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 253651 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 38.8  | 18.8  | 56.3   |
| 148       | 64.6  | 32.2  | 96.6   |





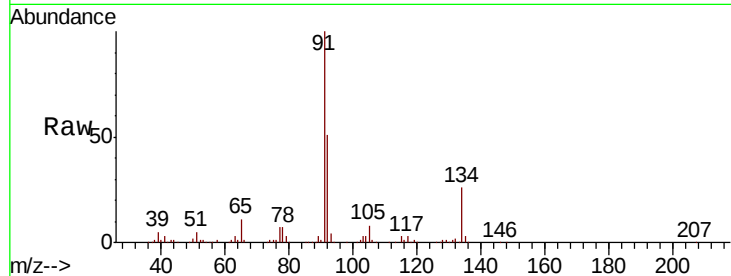
#89  
n-Butylbenzene  
Concen: 18.67 ug/l  
RT: 13.62 min Scan# 3740  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.2  | 26.1  | 78.2  |
| 134     | 26.7  | 13.2  | 39.6  |

Manual Integrations  
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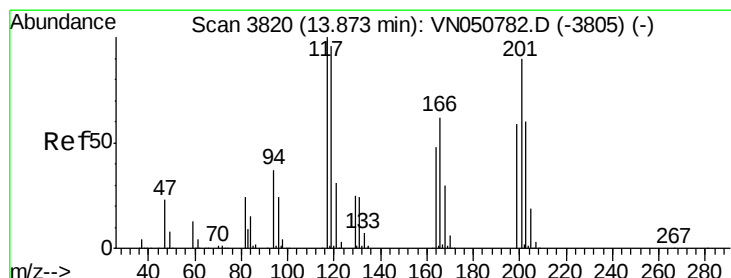
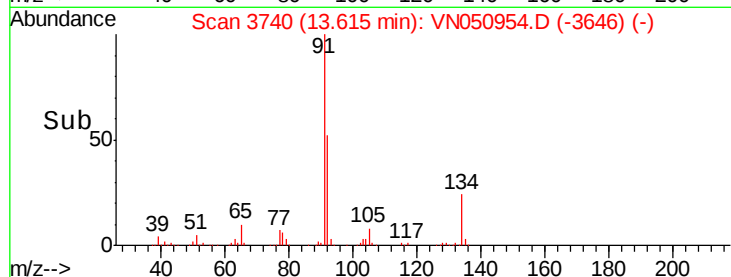
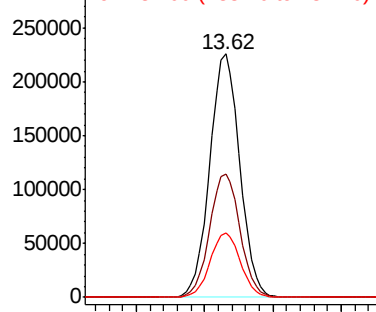


Abundance

Ion 91.00 (90.70 to 91.70): VN050782.D (-3726) (-)

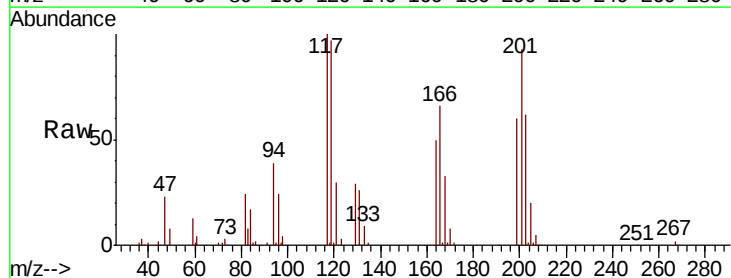
Ion 92.00 (91.70 to 92.70): VN050782.D (-3726) (-)

Ion 134.00 (133.70 to 134.70): VN050782.D (-3726) (-)



#90  
Hexachloroethane  
Concen: 20.99 ug/l  
RT: 13.88 min Scan# 3821  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

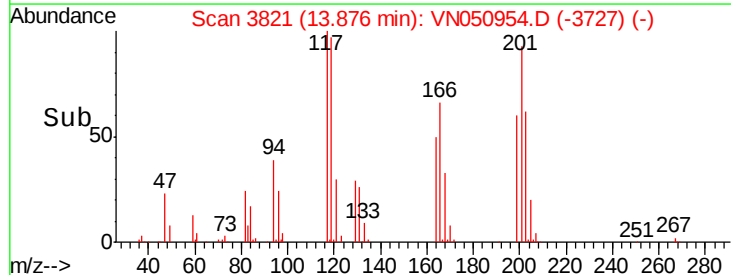
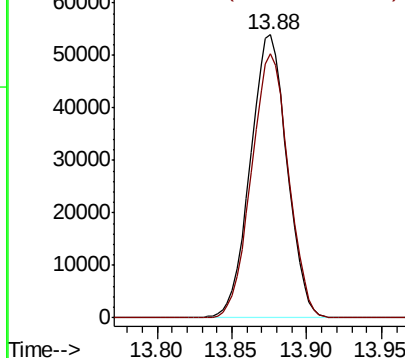
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 93.8  | 46.0  | 137.8 |

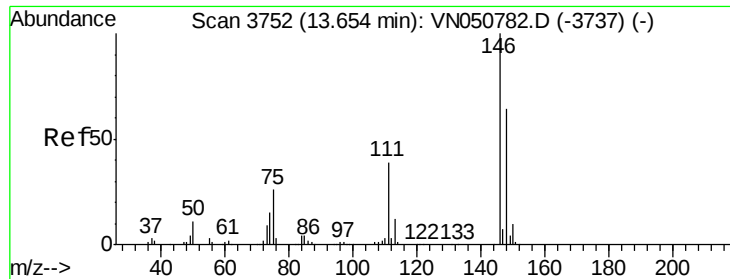


Abundance

Ion 116.80 (116.50 to 117.50): VN050782.D (-3805) (-)

Ion 200.70 (200.40 to 201.40): VN050782.D (-3805) (-)





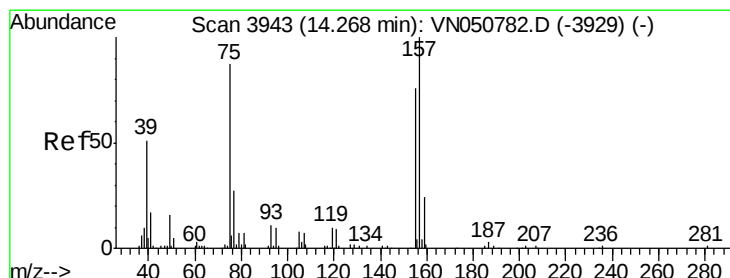
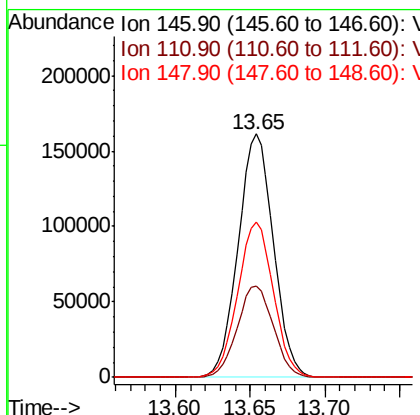
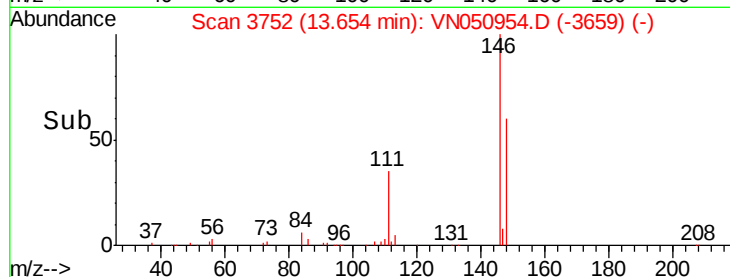
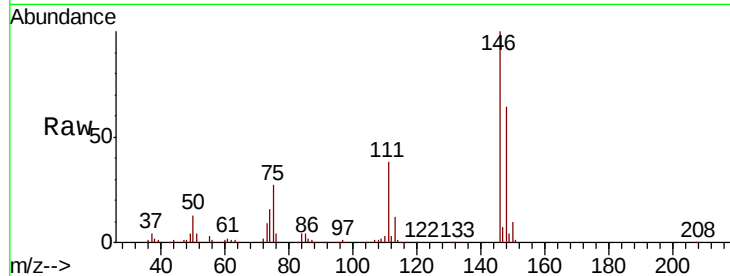
#91  
 1,2-Dichlorobenzene  
 Concen: 20.04 ug/l  
 RT: 13.65 min Scan# 3752  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.4  | 19.8  | 59.3  |
| 148     | 64.4  | 32.3  | 96.8  |

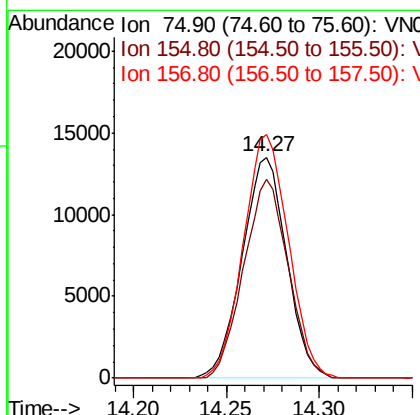
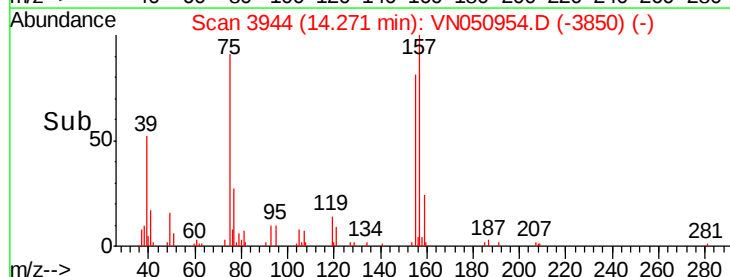
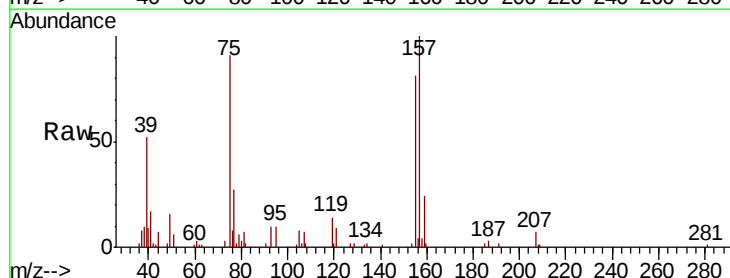
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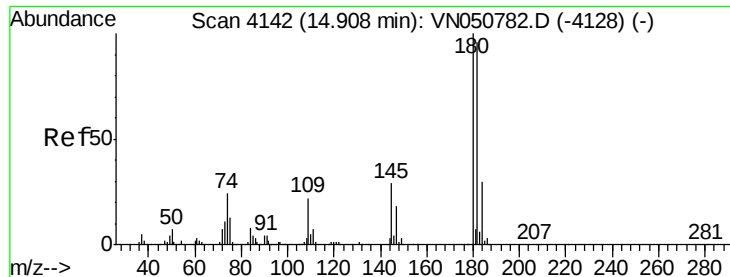
MMDadoda  
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 21.14 ug/l  
 RT: 14.27 min Scan# 3944  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 89.6  | 46.4  | 139.1 |
| 157     | 111.8 | 60.7  | 182.0 |





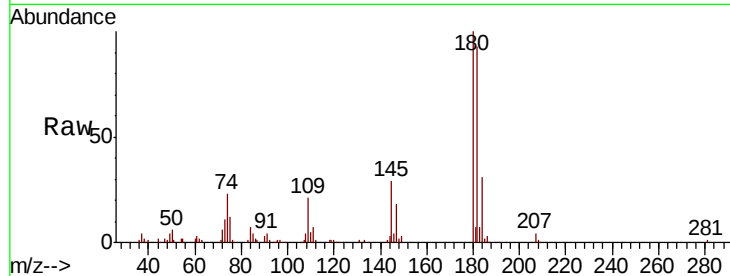
#93  
 1,2,4-Trichlorobenzene  
 Concen: 17.18 ug/l  
 RT: 14.91 min Scan# 4142  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0830WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 48.2  | 144.6 |
| 145     | 28.2  | 14.1  | 42.2  |

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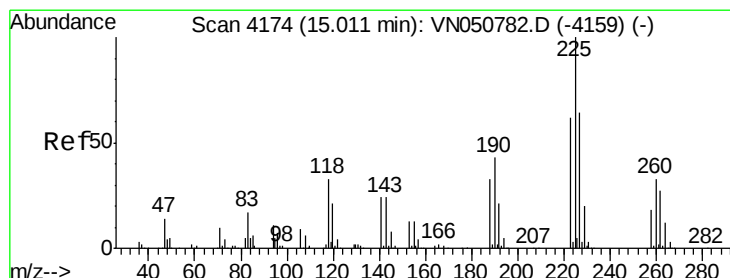
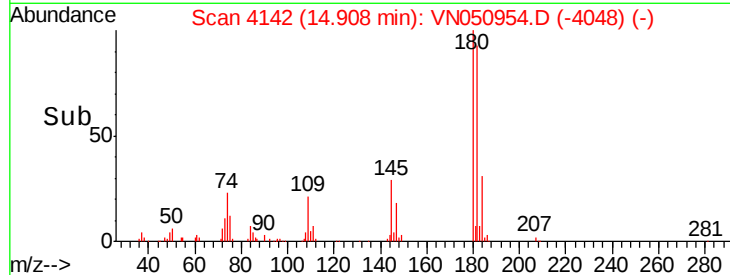
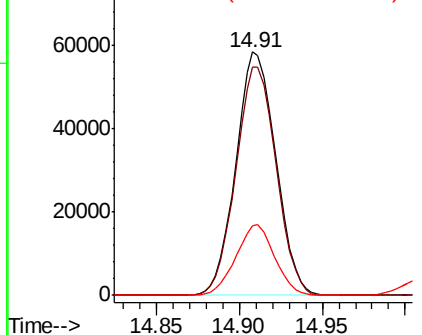


Abundance

Ion 179.80 (179.50 to 180.50): V

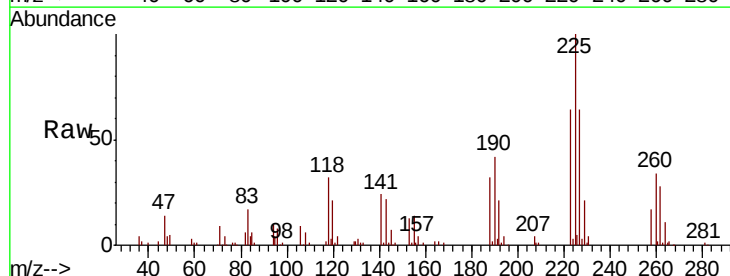
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 20.12 ug/l  
 RT: 15.01 min Scan# 4174  
 Delta R.T. 0.00 min  
 Lab File: VN050954.D  
 Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.2  | 31.3  | 93.8  |
| 227     | 63.4  | 32.0  | 96.2  |

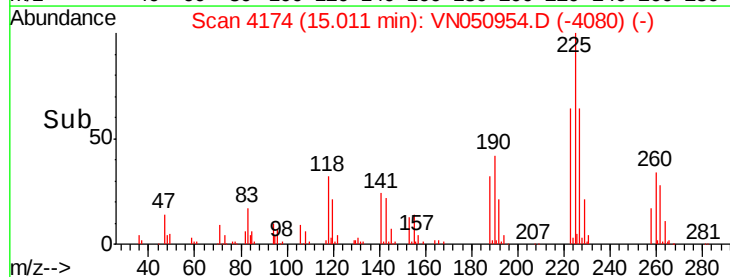
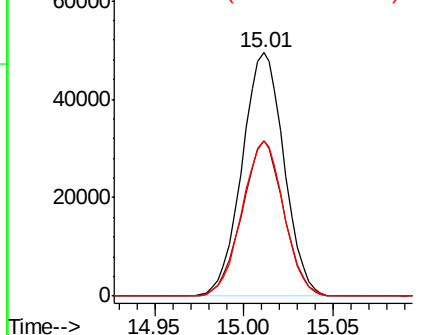


Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





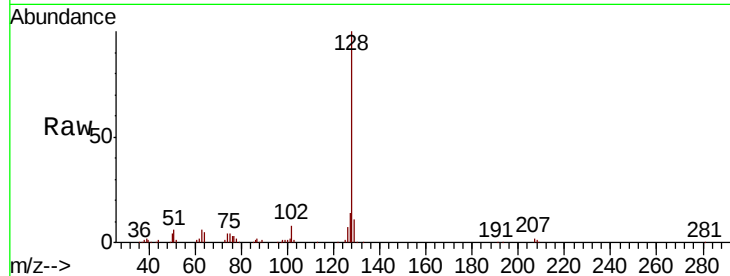
#95  
Naphthalene  
Concen: 16.75 ug/l  
RT: 15.13 min Scan# 4212  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0830WBS01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 182086 |       |       |
| 127     | 13.3  | 10.5   | 15.7  |       |
| 129     | 10.8  | 8.7    | 13.1  |       |

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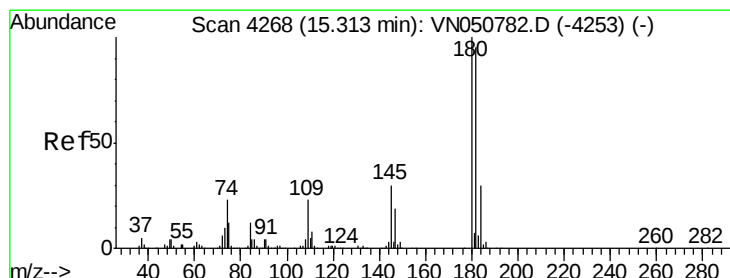
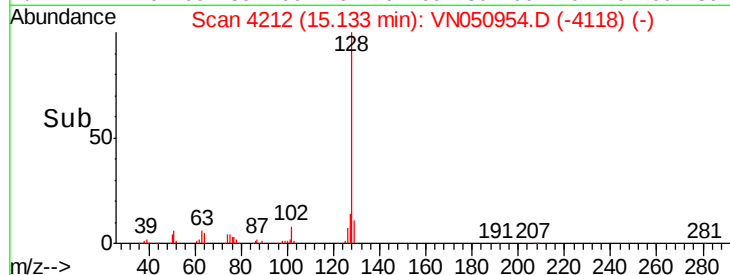
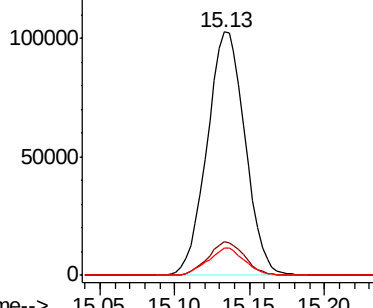


Abundance

Ion 128.00 (127.70 to 128.70): V

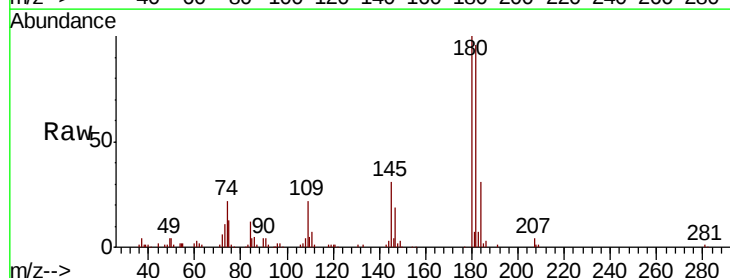
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96  
1,2,3-Trichlorobenzene  
Concen: 17.98 ug/l  
RT: 15.32 min Scan# 4269  
Delta R.T. 0.00 min  
Lab File: VN050954.D  
Acq: 30 Aug 2018 11:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 101176 |       |       |
| 182     | 95.3  | 48.0   | 144.2 |       |
| 145     | 30.0  | 15.2   | 45.6  |       |



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

