

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\  
 Data File : VN056409.D  
 Acq On : 20 Jun 2019 17:47  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/21/2019 10:50:35 PM

Quant Time: Jun 21 05:39:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 03:45:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 383818   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 590783   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 525465   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 219381   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 212535   | 49.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.92%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 185073   | 50.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.44% |          |
| 50) Toluene-d8              | 10.09 | 98   | 708625   | 49.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.82%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 237323   | 49.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.28%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 159692   | 49.136  | ug/l  | 98     |
| 3) Chloromethane              | 2.06 | 50   | 205401   | 46.416  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.18 | 62   | 208406   | 48.761  | ug/l  | 98     |
| 5) Bromomethane               | 2.53 | 94   | 122601m  | 48.930  | ug/l  |        |
| 6) Chloroethane               | 2.68 | 64   | 121521   | 49.096  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 3.00 | 101  | 268197   | 48.510  | ug/l  | 99     |
| 8) Diethyl Ether              | 3.41 | 74   | 114711   | 49.025  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101  | 169865   | 48.178  | ug/l  | 100    |
| 10) Methyl Iodide             | 3.95 | 142  | 244071   | 51.219  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 4.80 | 59   | 170854   | 238.468 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 3.73 | 96   | 167346   | 49.356  | ug/l  | 98     |
| 13) Acrolein                  | 3.60 | 56   | 116132   | 192.320 | ug/l  | 98     |
| 14) Allyl chloride            | 4.32 | 41   | 283949   | 50.309  | ug/l  | 100    |
| 15) Acrylonitrile             | 4.99 | 53   | 507838   | 256.212 | ug/l  | 100    |
| 16) Acetone                   | 3.82 | 43   | 446706   | 209.597 | ug/l  | 100    |
| 17) Carbon Disulfide          | 4.05 | 76   | 359741   | 46.648  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.32 | 43   | 226962   | 54.449  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.04 | 73   | 567841   | 50.613  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.55 | 84   | 198386   | 49.366  | ug/l  | 99     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96   | 178454   | 48.817  | ug/l  | 96     |
| 22) Diisopropyl ether         | 5.95 | 45   | 593578   | 50.077  | ug/l  | 96     |
| 23) Vinyl Acetate             | 5.90 | 43   | 2483793  | 265.671 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 336364   | 49.435  | ug/l  | 99     |
| 25) 2-Butanone                | 6.84 | 43   | 693109   | 245.719 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 237630   | 50.214  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 211947   | 49.557  | ug/l  | 98     |
| 28) Bromochloromethane        | 7.19 | 49   | 168483   | 50.061  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.21 | 42   | 452824   | 262.695 | ug/l  | 99     |
| 30) Chloroform                | 7.37 | 83   | 333731   | 49.706  | ug/l  | 99     |
| 31) Cyclohexane               | 7.65 | 56   | 305879   | 46.565  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 268184   | 50.392  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 247621   | 47.620  | ug/l  | 98     |
| 37) Ethyl Acetate             | 6.93 | 43   | 271622   | 53.153  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 222851   | 49.008  | ug/l  | 98     |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/21/2019 10:50:35 PM

Quant Time: Jun 21 05:39:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 03:45:40 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 306579   | 47.781  | ug/l   | 99       |
| 40) Benzene                    | 8.04  | 78   | 774566   | 48.425  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 124165   | 55.024  | ug/l   | 90       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 253965   | 48.111  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.17  | 43   | 420110   | 53.315  | ug/l   | 100      |
| 44) Trichloroethene            | 8.83  | 130  | 214918   | 49.880  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 210767   | 49.272  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 134847   | 50.386  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.40  | 83   | 244592   | 51.531  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 208703   | 52.853  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 76590    | 934.654 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 1327186  | 260.953 | ug/l   | 100      |
| 52) Toluene                    | 10.16 | 92   | 478731   | 48.955  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 264807   | 48.021  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 304997   | 53.359  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 200980   | 51.130  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 307485   | 53.527  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 333527   | 50.508  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 723950   | 350.798 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 928803   | 248.478 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 192020   | 47.644  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 203883   | 50.785  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.63 | 164  | 224720   | 54.003  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.43 | 112  | 516515   | 48.919  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 186334   | 52.216  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 904096   | 48.767  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 673459   | 99.122  | ug/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 331894   | 49.376  | ug/l   | 99       |
| 70) Styrene                    | 11.96 | 104  | 553321   | 51.500  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 132978   | 46.431  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 875830   | 53.332  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 335084   | 47.993  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 265593   | 52.200  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 226940m  | 49.889  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 227201   | 46.317  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.59 | 91   | 954151   | 47.494  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 576433   | 52.450  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 717202   | 52.039  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 66805    | 52.196  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 552848   | 46.607  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 638447   | 53.248  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 702702   | 47.581  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 818511   | 46.354  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 732544   | 48.340  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 361415   | 48.617  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 345388   | 47.974  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.61 | 91   | 558911   | 48.719  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 111078   | 47.015  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 354944   | 48.125  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 43222    | 53.246  | ug/l   | 96       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

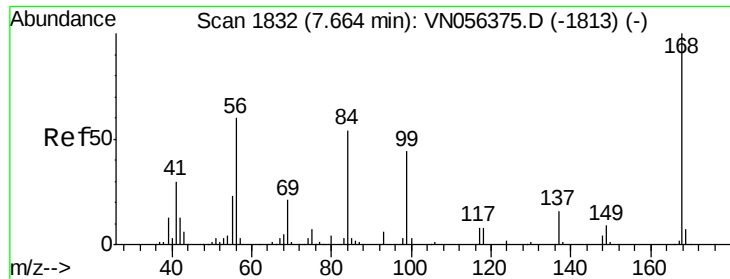
MMDadoda  
6/21/2019 10:50:35 PM

Quant Time: Jun 21 05:39:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 21 03:45:40 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 162528   | 43.178 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 123636   | 49.444 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 448412   | 45.230 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 177716   | 45.134 | ug/l  | 98       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 383818

Ion Ratio Lower Upper

168 100

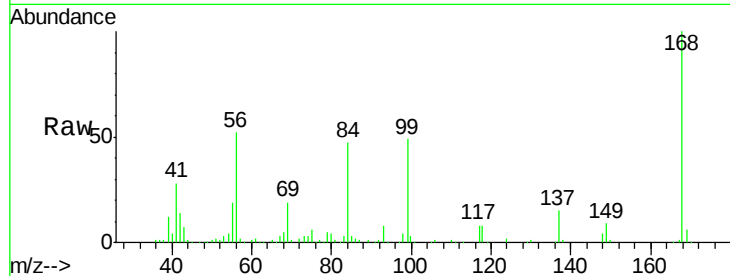
99 48.3 40.6 61.0

Manual Integrations

APPROVED

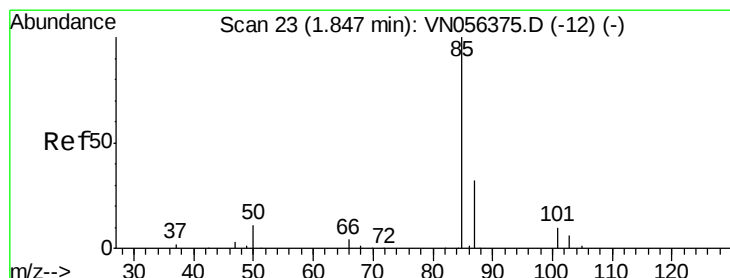
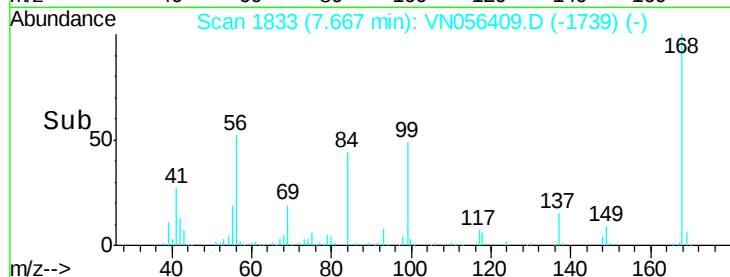
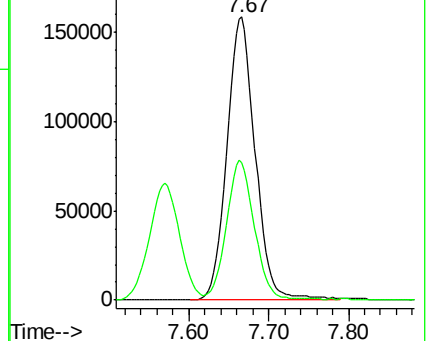
MMDadoda

6/21/2019 10:50:35 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 49.136 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056409.D

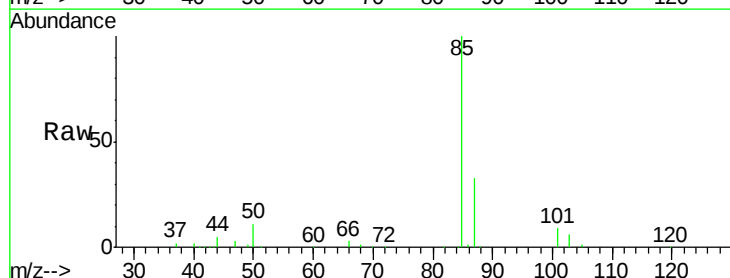
Acq: 20 Jun 2019 17:47

Tgt Ion: 85 Resp: 159692

Ion Ratio Lower Upper

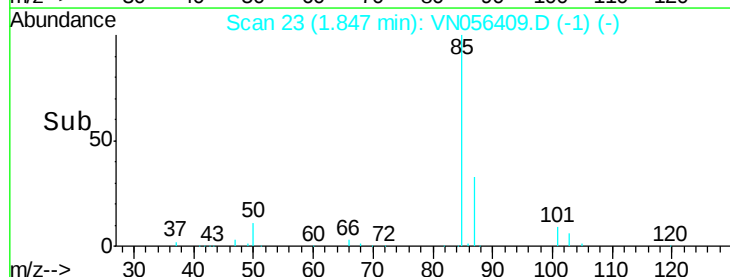
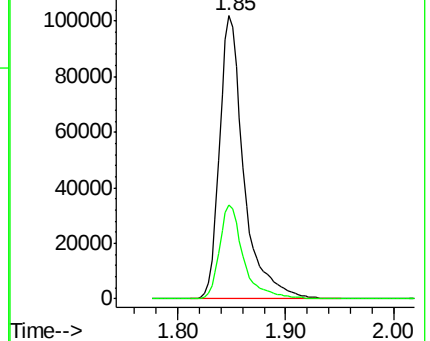
85 100

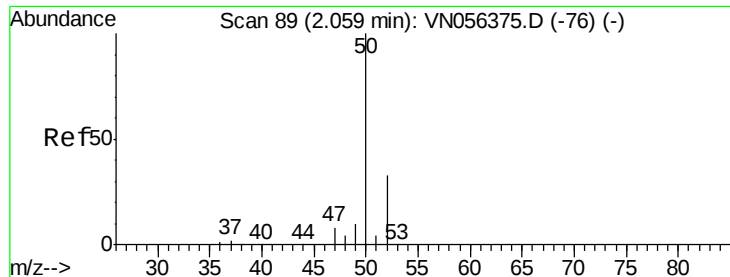
87 33.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 46.416 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 205401

Ion Ratio Lower Upper

50 100

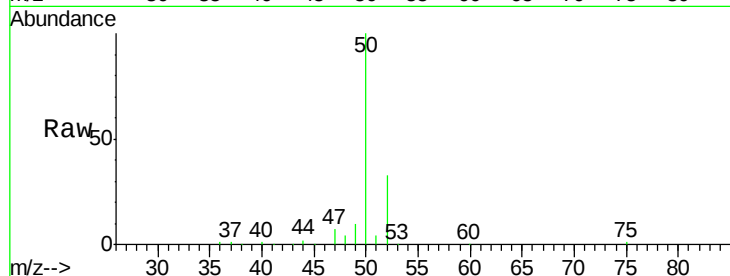
52 33.4 26.5 39.7

Manual Integrations

APPROVED

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6/21/2019 10:50:35 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

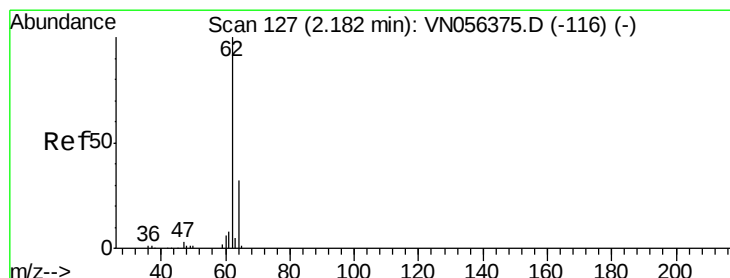
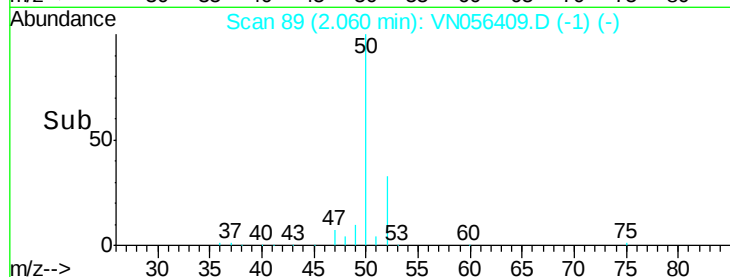
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 48.761 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN056409.D

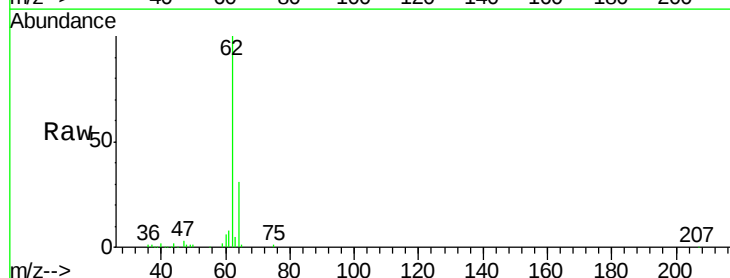
Acq: 20 Jun 2019 17:47

Tgt Ion: 62 Resp: 208406

Ion Ratio Lower Upper

62 100

64 31.0 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.18

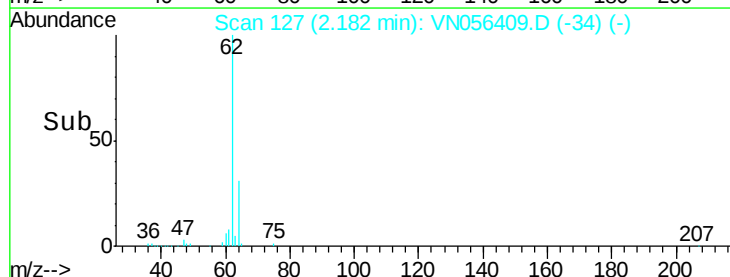
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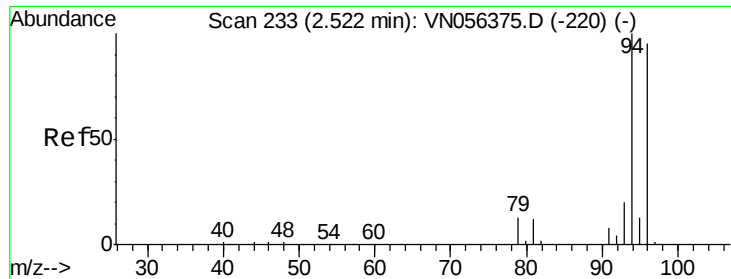
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50000

0

Time-->





#5

Bromomethane

Concen: 48.930 ug/l m

RT: 2.53 min Scan# 234

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Tot Ion: 94 Resp: 122601

Ion Ratio Lower Upper

94 100

96 92.7 76.0 114.0

Instrument :

MSVOA\_N

ClientSampled :

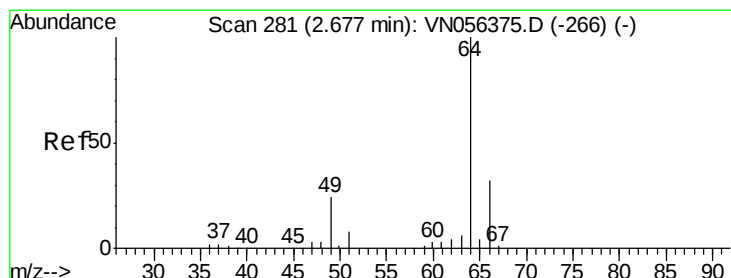
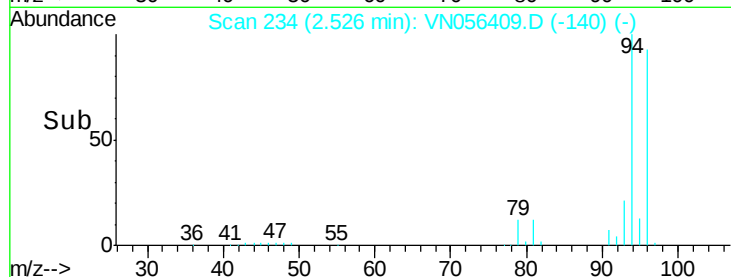
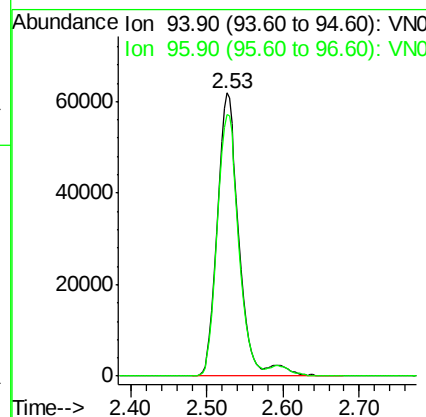
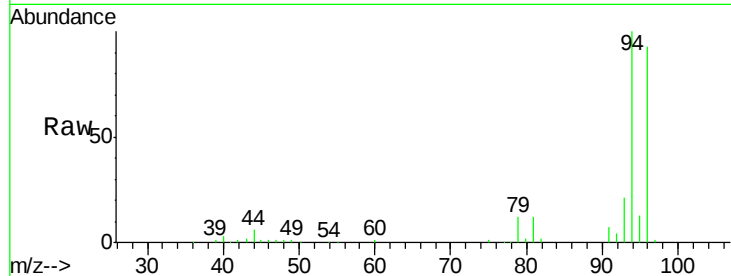
VSTDCCC050EC

Manual Integrations

APPROVED

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6/21/2019 10:50:35 PM



#6

Chloroethane

Concen: 49.096 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN056409.D

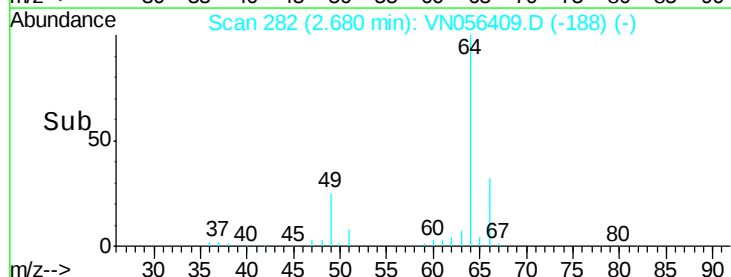
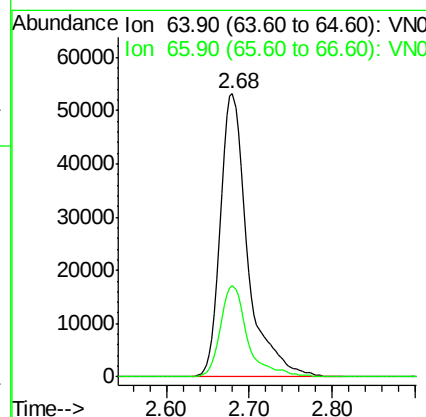
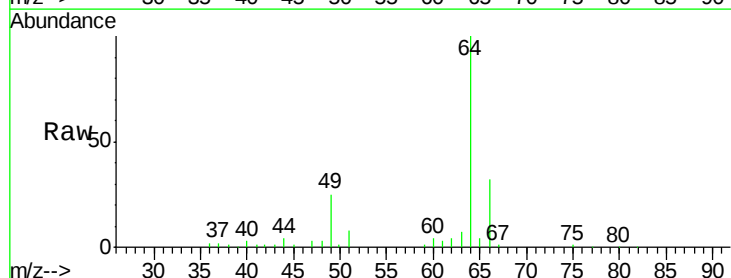
Acq: 20 Jun 2019 17:47

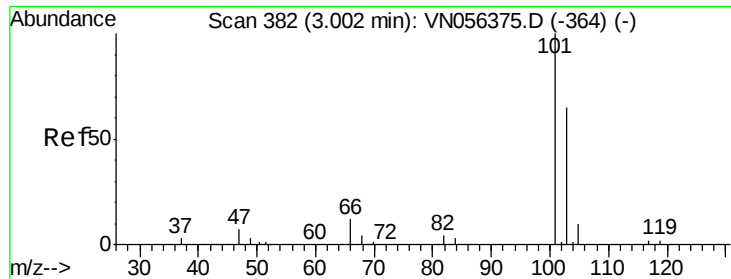
Tgt Ion: 64 Resp: 121521

Ion Ratio Lower Upper

64 100

66 32.1 25.8 38.8





#7

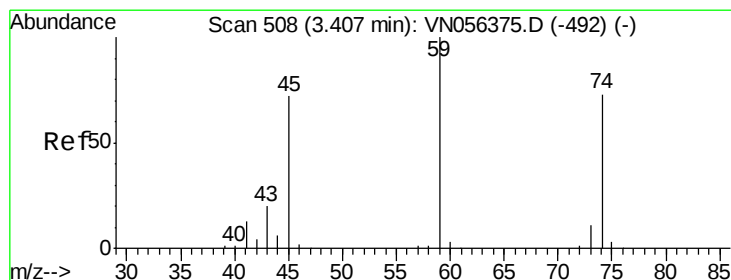
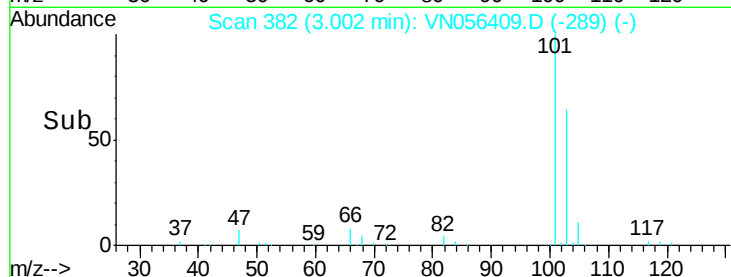
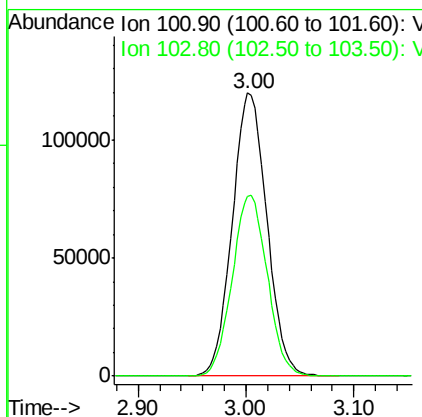
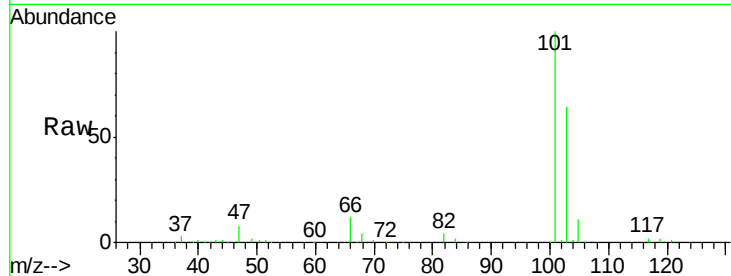
Trichlorofluoromethane  
Concen: 48.510 ug/l  
RT: 3.00 min Scan# 382  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 63.6  | 51.7  | 77.5  |

Manual Integrations  
APPROVED

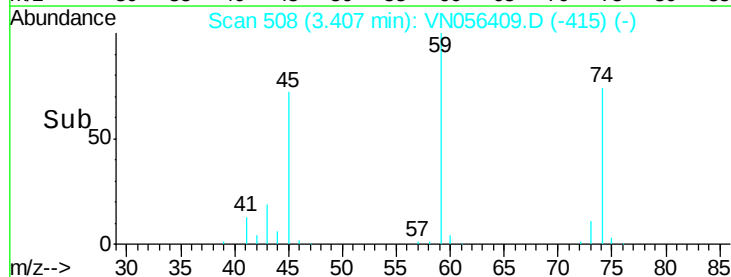
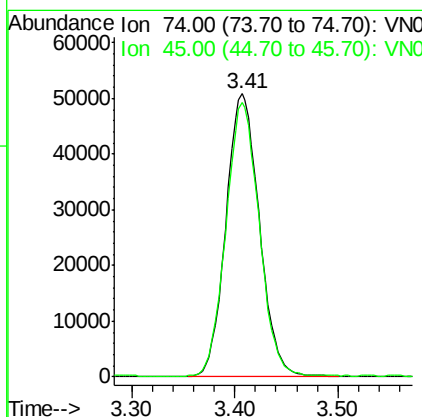
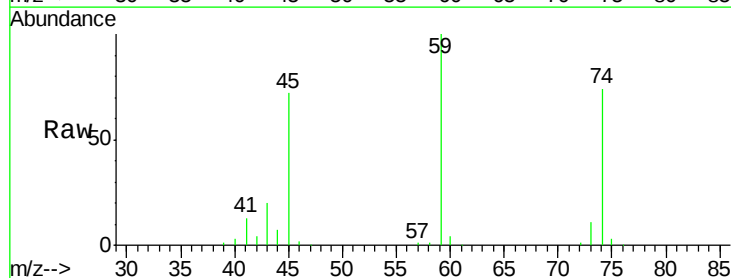
MMDadoda  
6/21/2019 10:50:35 PM

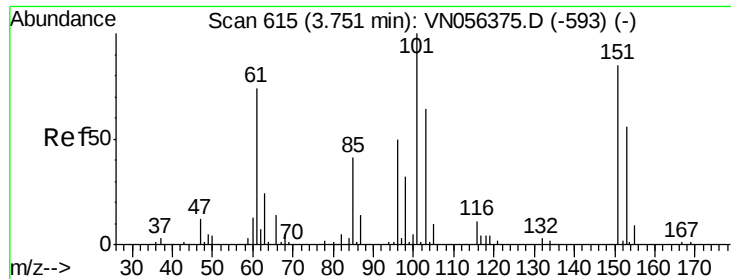


#8

Diethyl Ether  
Concen: 49.025 ug/l  
RT: 3.41 min Scan# 508  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 97.1  | 48.9  | 146.6 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.178 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

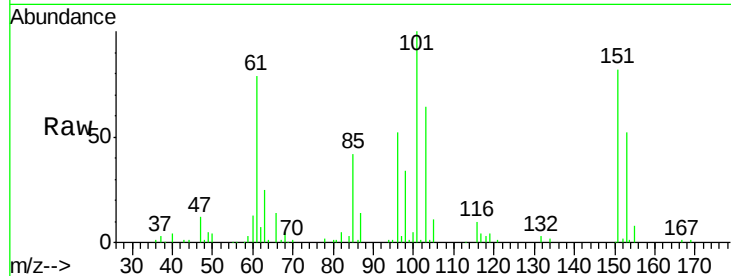
ClientSampleId :

VSTDCCC050EC

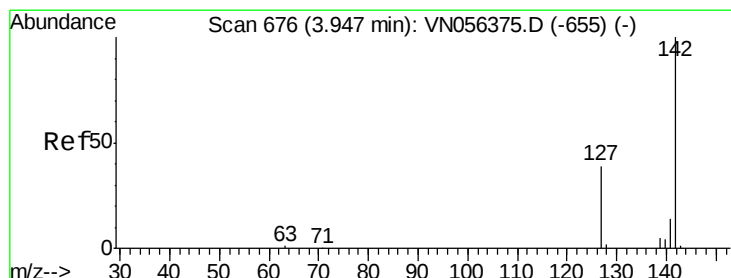
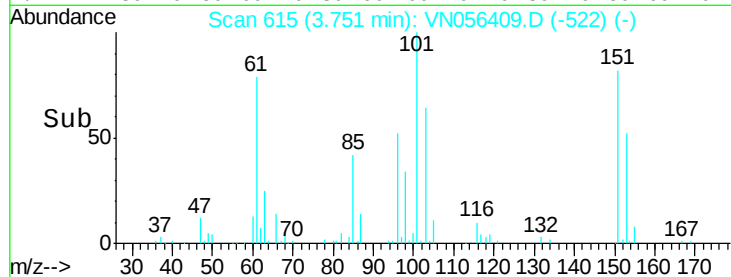
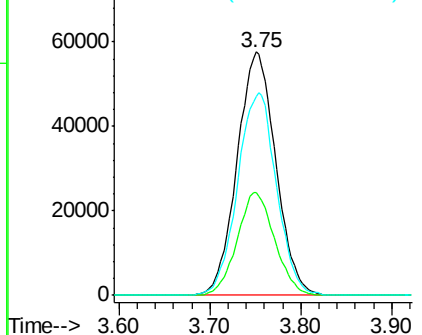
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 169865 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 41.0  | 32.7  | 49.1   |
| 151       | 83.9  | 66.8  | 100.2  |

Manual Integrations  
APPROVED

MMDadoda  
6/21/2019 10:50:35 PM



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 51.219 ug/l

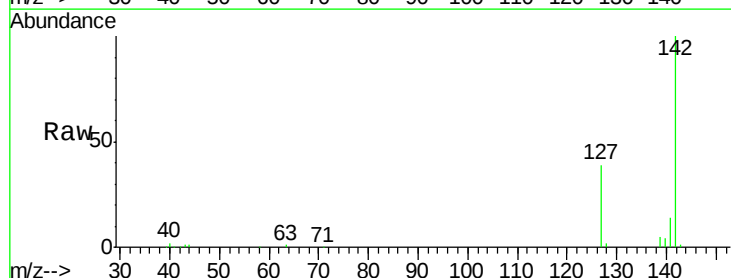
RT: 3.95 min Scan# 676

Delta R.T. 0.00 min

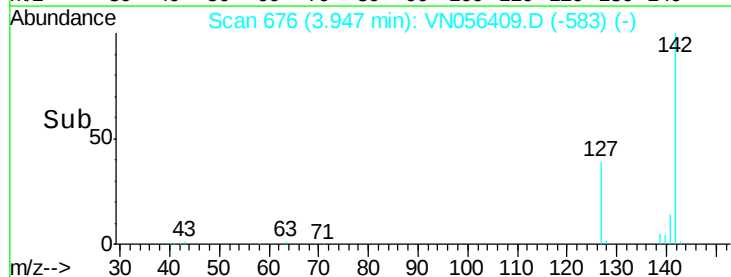
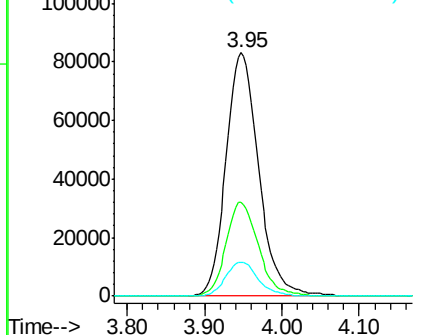
Lab File: VN056409.D

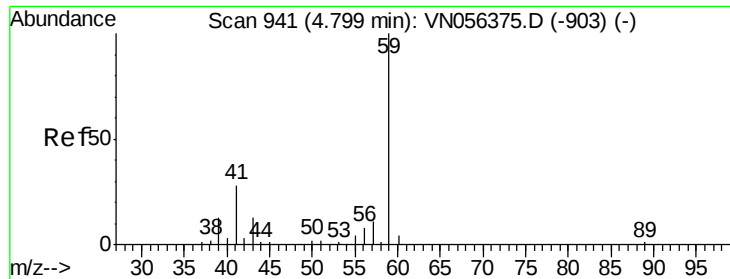
Acq: 20 Jun 2019 17:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 244071 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 38.3  | 30.6  | 46.0   |
| 141       | 14.0  | 11.4  | 17.2   |



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V





#11

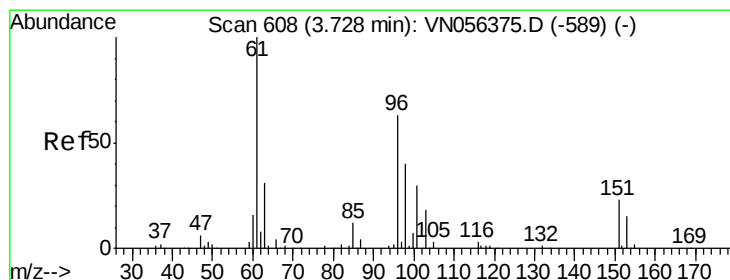
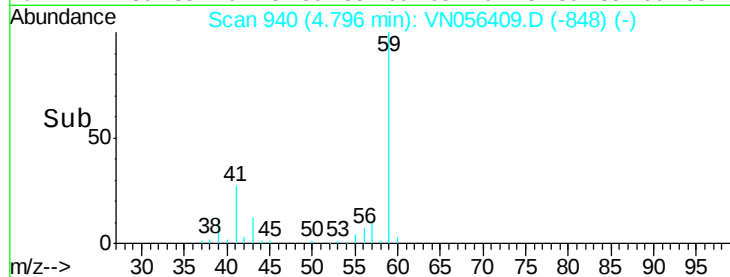
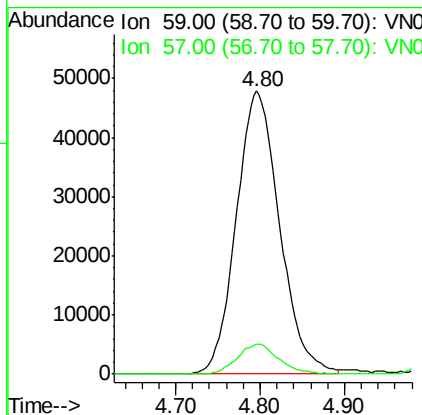
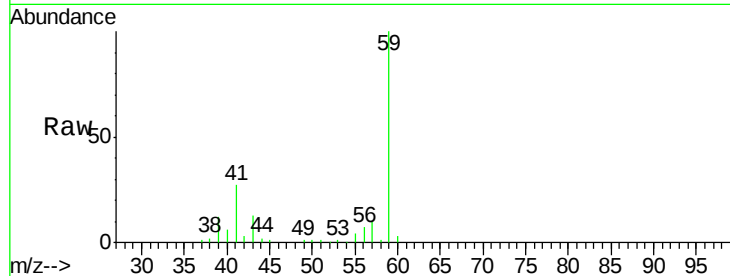
Tert butyl alcohol  
 Concen: 238.468 ug/l  
 RT: 4.80 min Scan# 940  
 Delta R.T. -0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 10.1  | 7.6   | 11.4  |

Manual Integrations  
 APPROVED

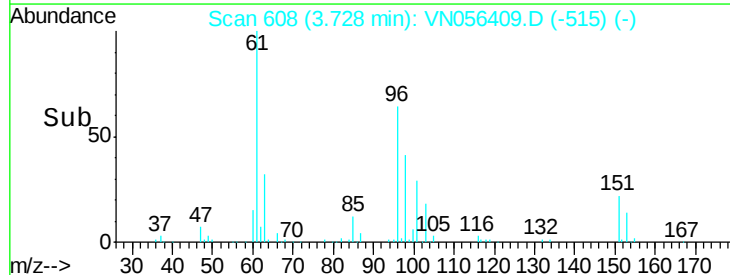
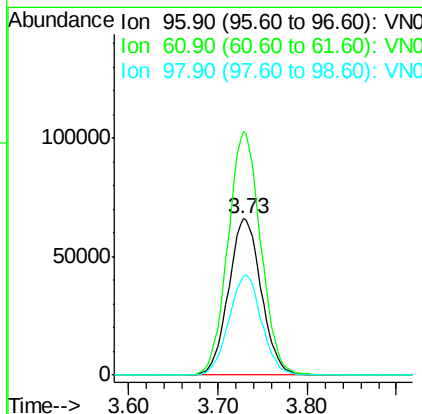
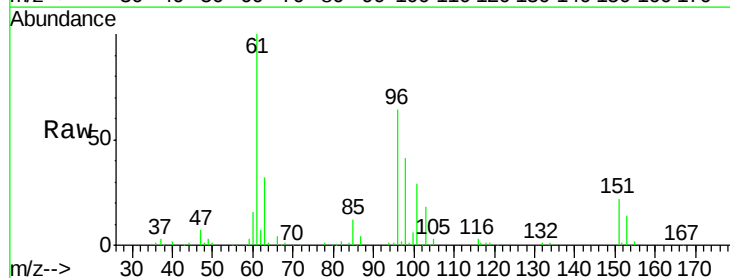
MMDadoda  
 6/21/2019 10:50:35 PM

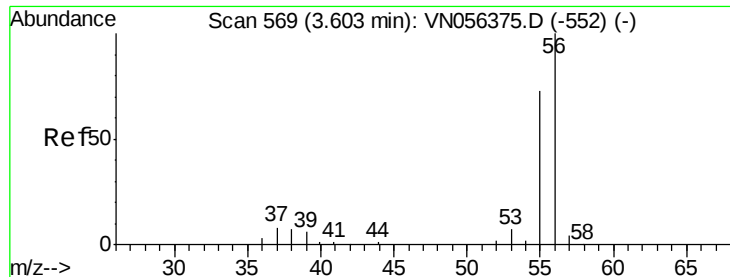


#12

1,1-Dichloroethene  
 Concen: 49.356 ug/l  
 RT: 3.73 min Scan# 608  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 155.7 | 126.6 | 190.0 |
| 98      | 63.4  | 51.1  | 76.7  |





#13

Acrolein

Concen: 192.320 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 116132

Ion Ratio Lower Upper

56 100

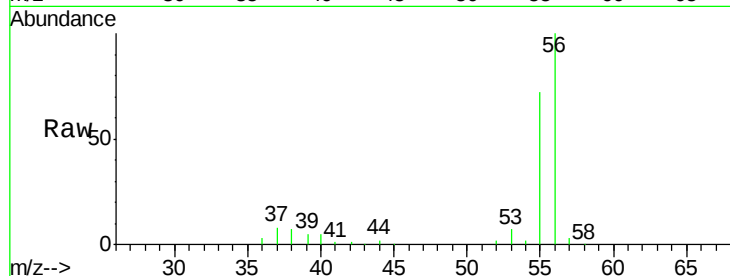
55 69.9 57.1 85.7

Manual Integrations

APPROVED

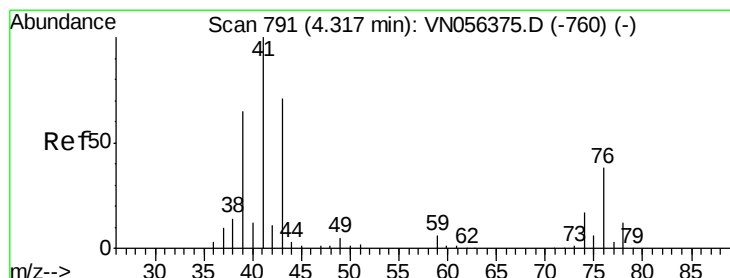
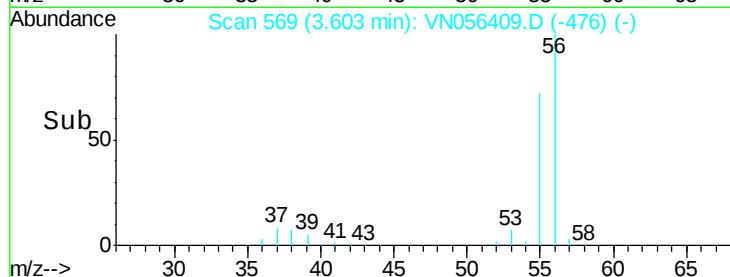
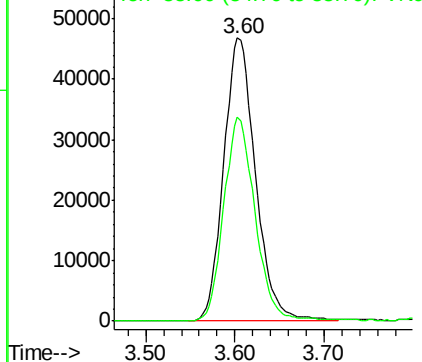
MMDadoda

6/21/2019 10:50:35 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 50.309 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

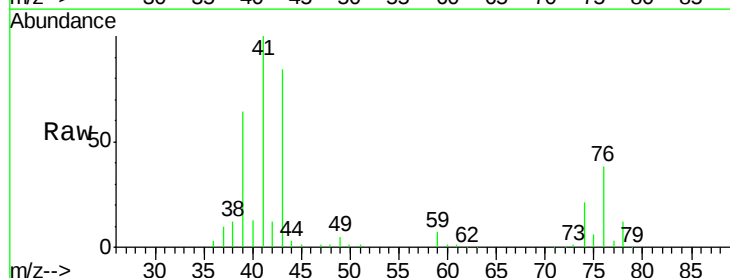
Tgt Ion: 41 Resp: 283949

Ion Ratio Lower Upper

41 100

39 60.5 48.6 73.0

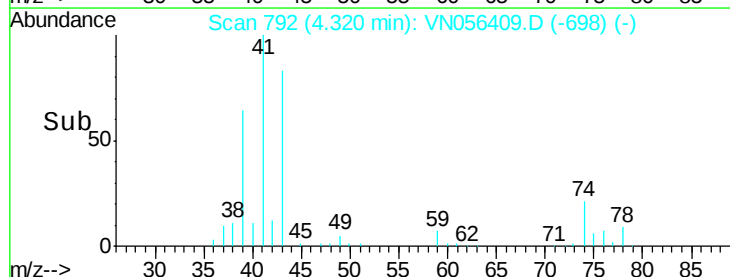
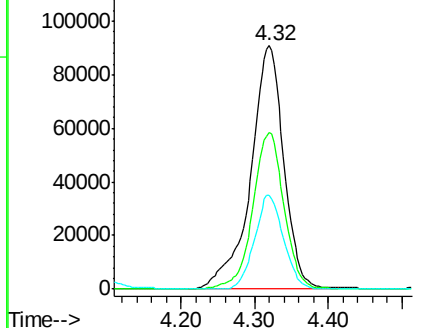
76 33.6 26.6 40.0

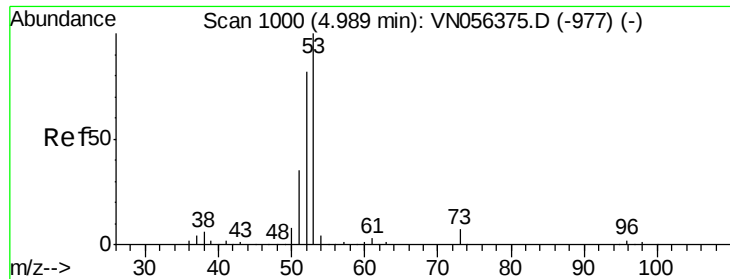


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





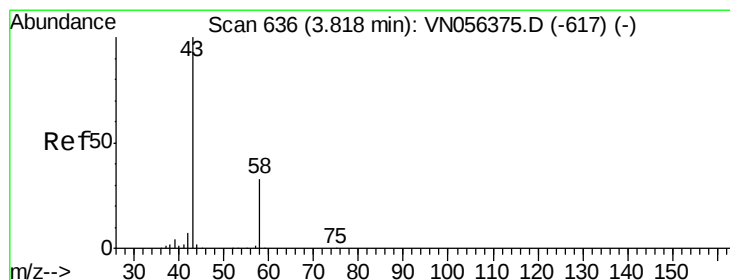
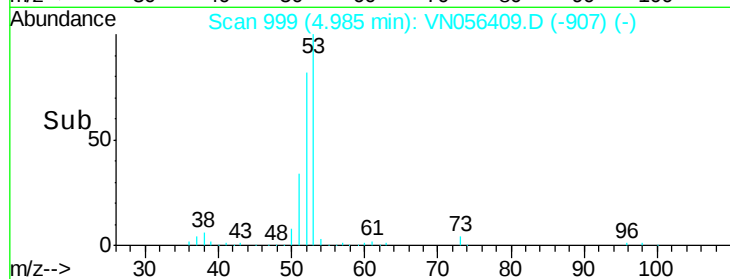
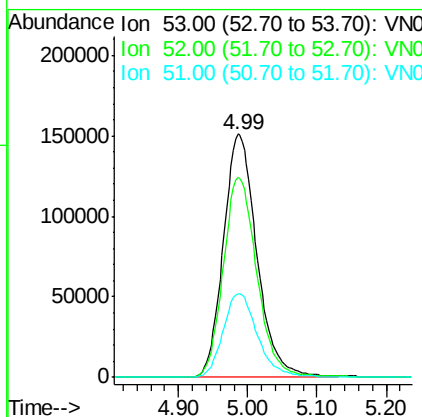
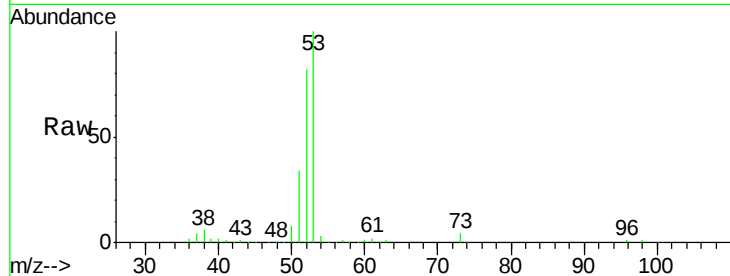
#15  
 Acrylonitrile  
 Concen: 256.212 ug/l  
 RT: 4.99 min Scan# 999  
 Delta R.T. -0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 53      | 100   |       |       |
| 52      | 82.3  | 65.9  | 98.9  |
| 51      | 35.4  | 28.3  | 42.5  |

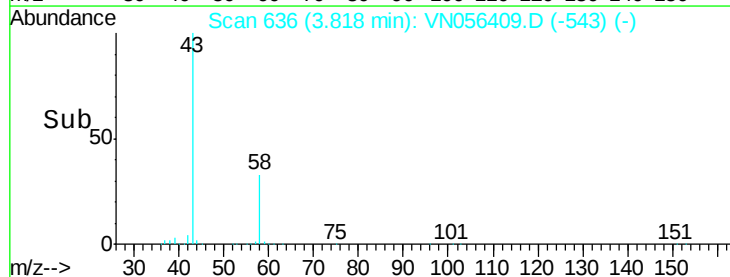
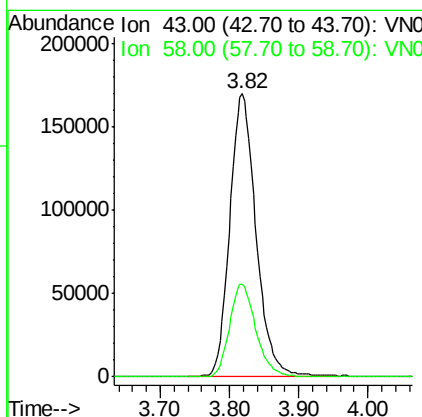
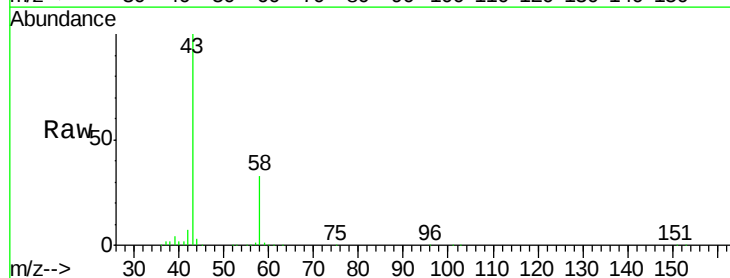
Manual Integrations  
 APPROVED

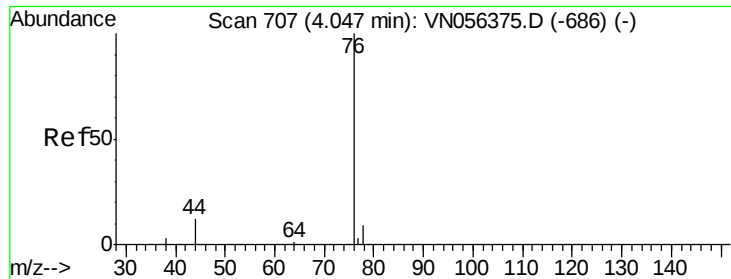
MMDadoda  
 6/21/2019 10:50:35 PM



#16  
 Acetone  
 Concen: 209.597 ug/l  
 RT: 3.82 min Scan# 636  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 32.9  | 26.4  | 39.6  |





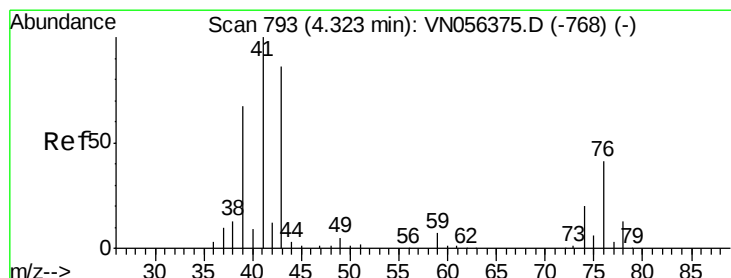
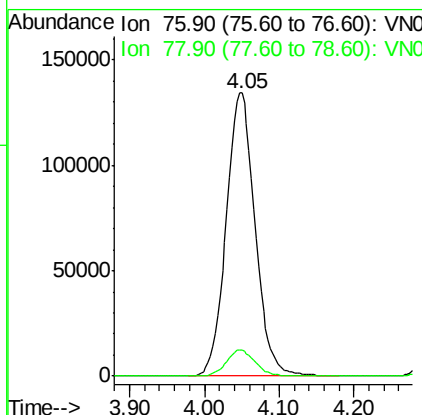
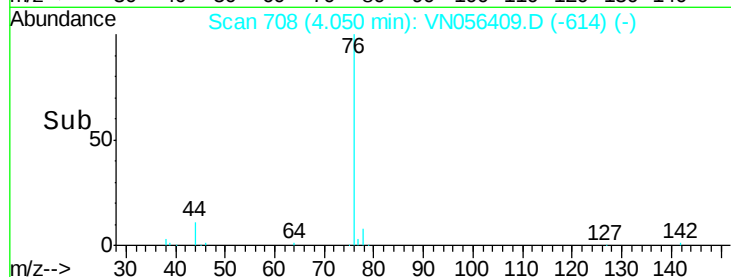
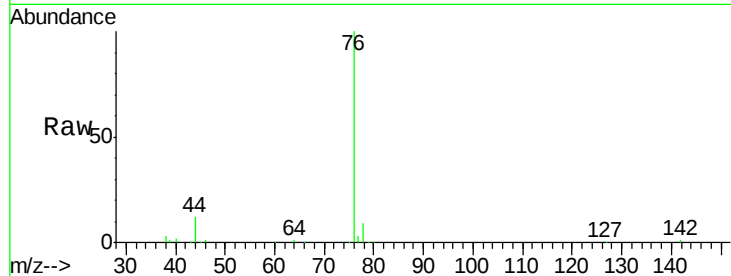
#17  
Carbon Disulfide  
Concen: 46.648 ug/l  
RT: 4.05 min Scan# 708  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.3   | 7.1   | 10.7  |

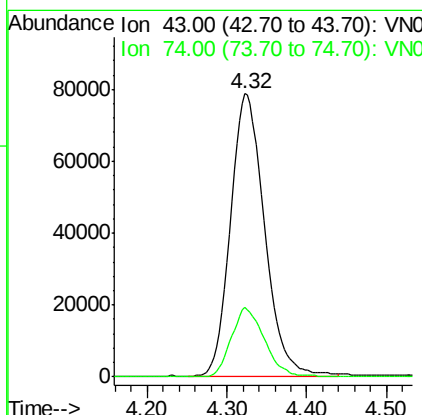
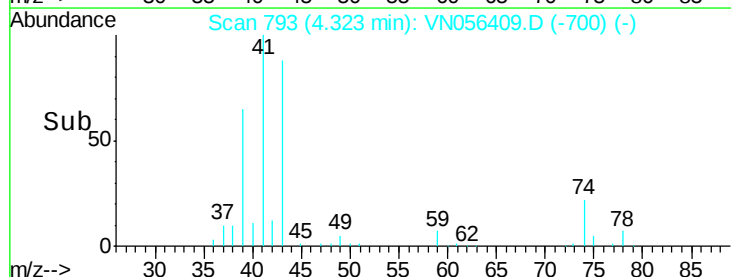
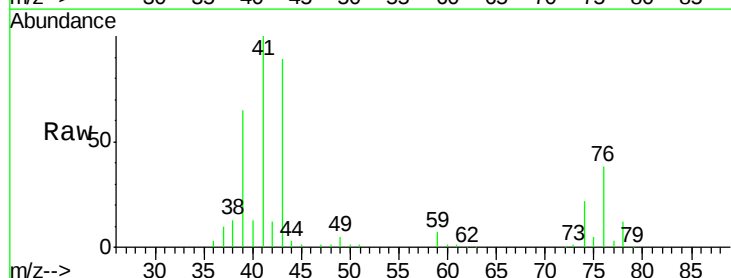
Manual Integrations  
APPROVED

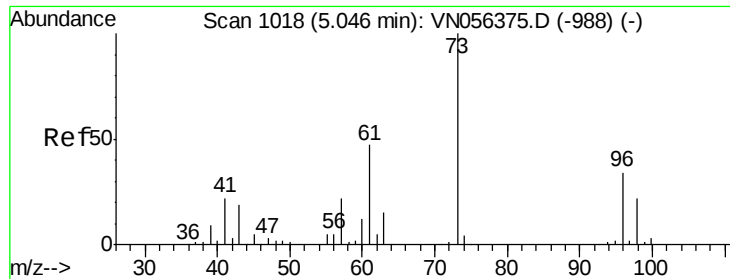
MMDadoda  
6/21/2019 10:50:35 PM



#18  
Methyl Acetate  
Concen: 54.449 ug/l  
RT: 4.32 min Scan# 793  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 24.1  | 19.2  | 28.8  |





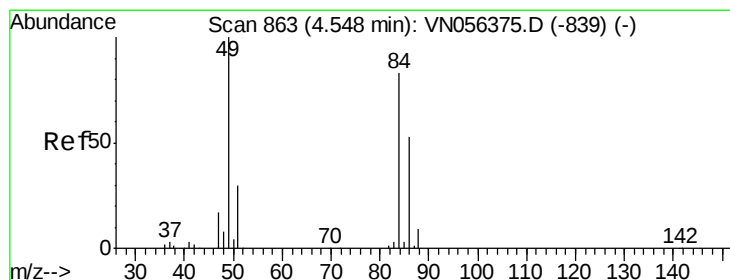
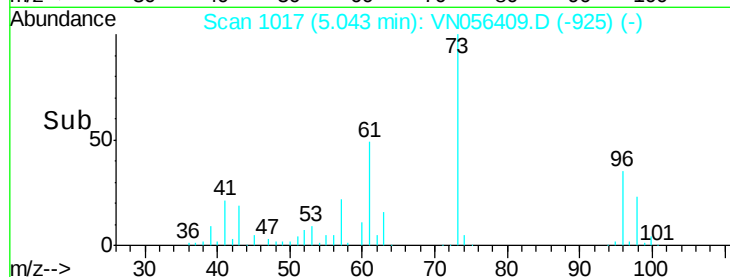
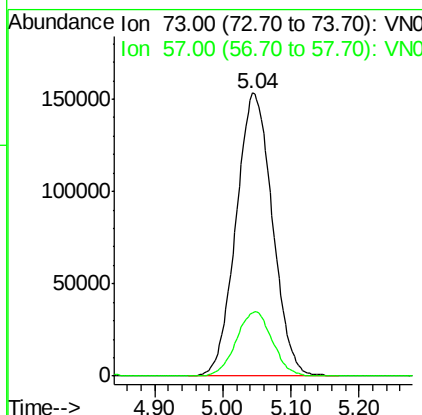
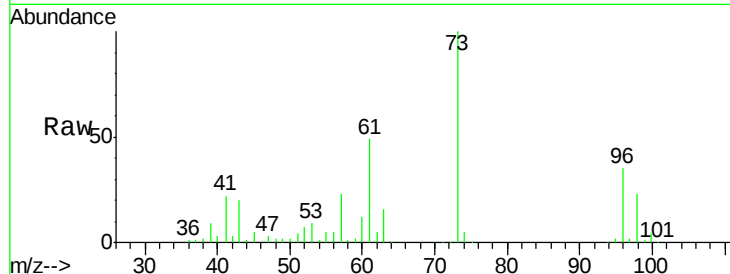
#19  
Methvl tert-butvl Ether  
Concen: 50.613 ug/l  
RT: 5.04 min Scan# 1017  
Delta R.T. -0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Tot Ion: 73 Resp: 567841  
Ion Ratio Lower Upper  
73 100  
57 22.6 17.9 26.9

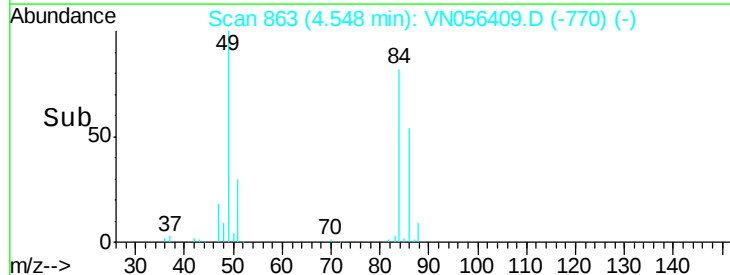
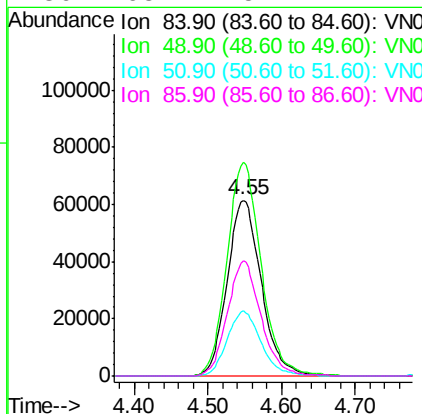
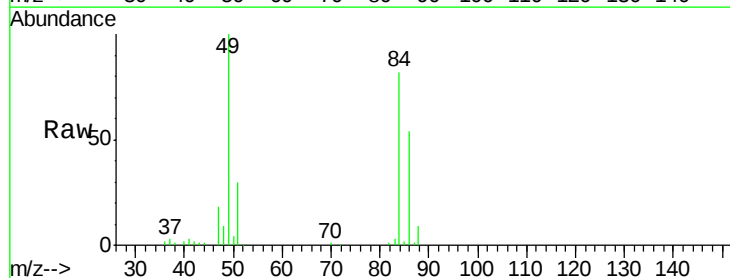
Manual Integrations  
APPROVED

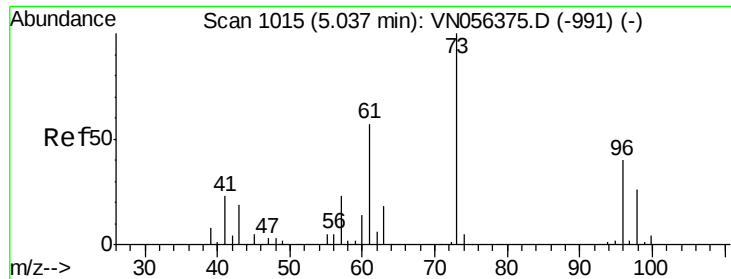
MMDadoda  
6/21/2019 10:50:35 PM



#20  
Methylene Chloride  
Concen: 49.366 ug/l  
RT: 4.55 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Tgt Ion: 84 Resp: 198386  
Ion Ratio Lower Upper  
84 100  
49 121.5 96.4 144.6  
51 36.8 28.6 43.0  
86 65.4 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 48.817 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 178454

Ion Ratio Lower Upper

96 100

61 135.7 113.0 169.6

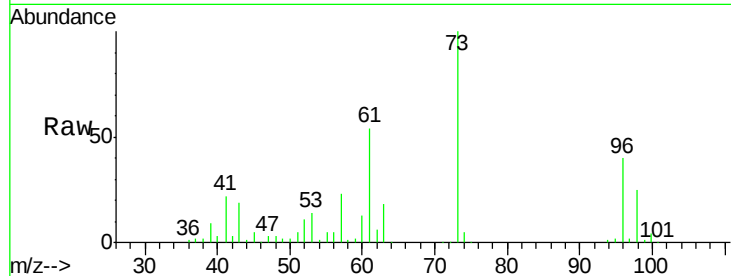
98 61.8 52.2 78.2

Manual Integrations

APPROVED

MMDadoda

6/21/2019 10:50:35 PM

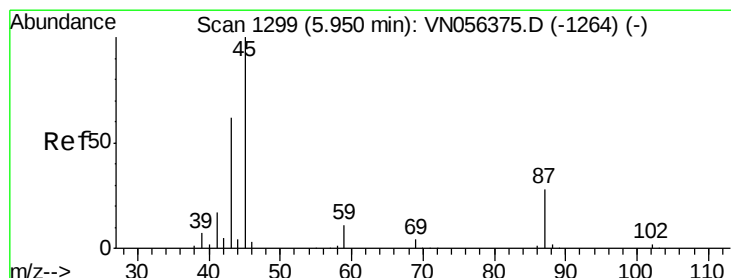
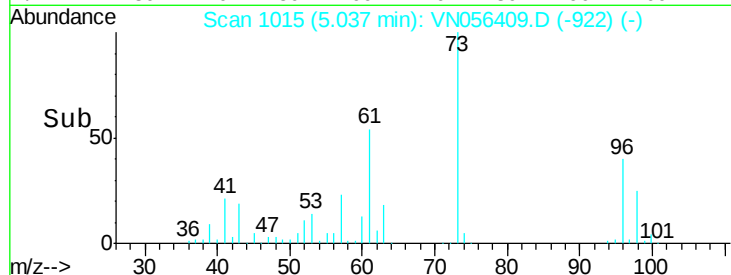
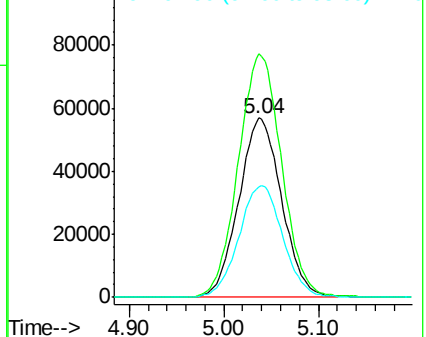


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 50.077 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Tgt Ion: 45 Resp: 593578

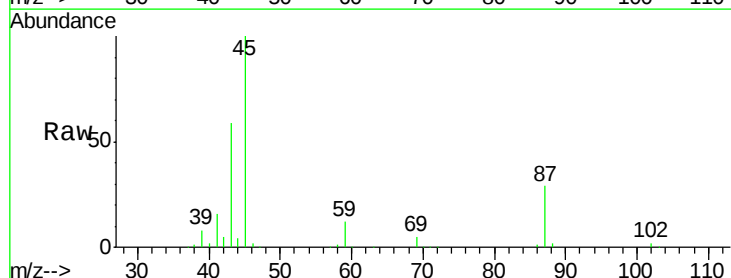
Ion Ratio Lower Upper

45 100

43 57.6 50.4 75.6

87 28.8 23.0 34.4

59 11.6 9.1 13.7



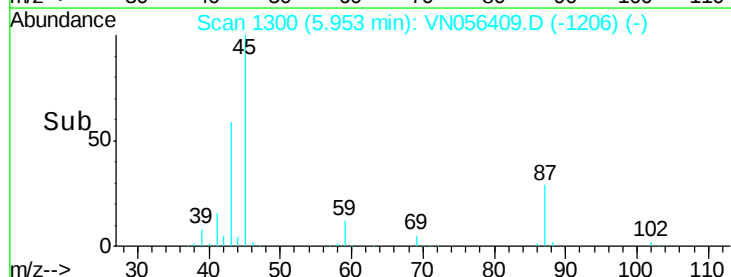
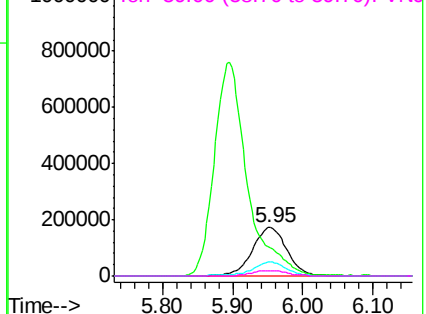
Abundance

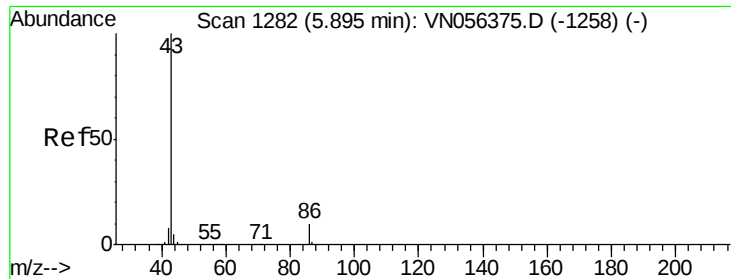
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 265.671 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Tot Ion: 43 Resp: 2483793

Ion Ratio Lower Upper

43 100

86 10.5 8.3 12.5

Instrument :

MSVOA\_N

ClientSampleId :

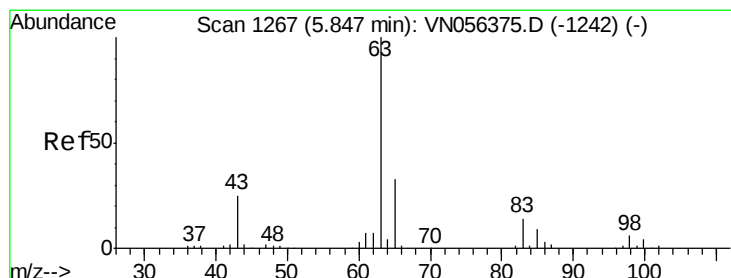
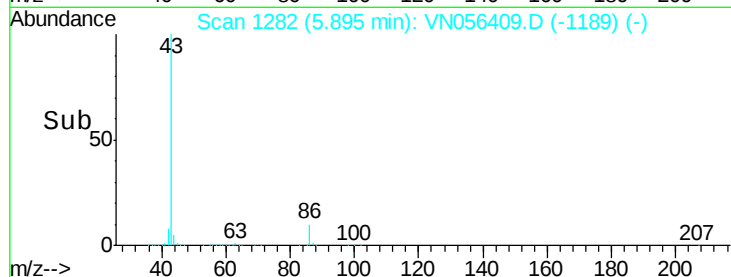
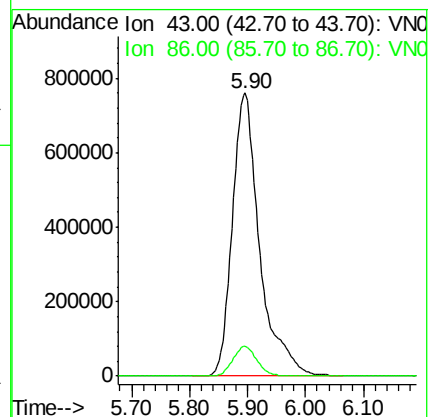
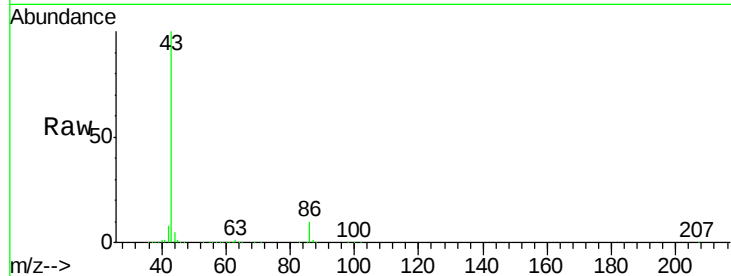
VSTDCCC050EC

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 49.435 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

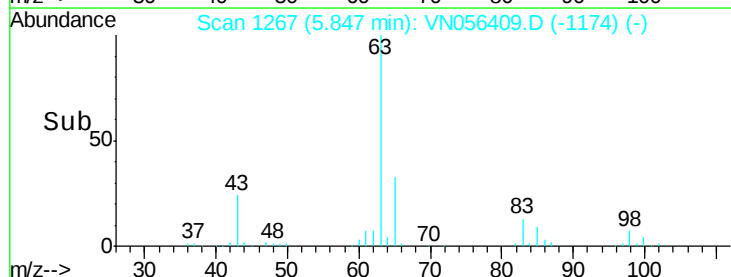
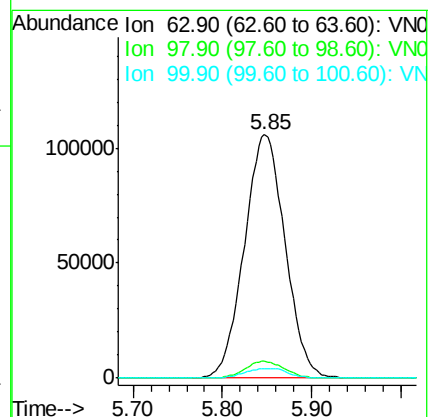
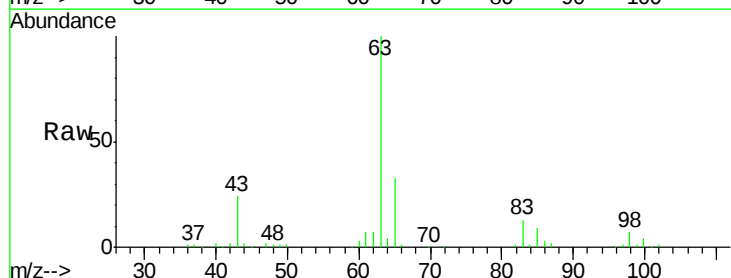
Tgt Ion: 63 Resp: 336364

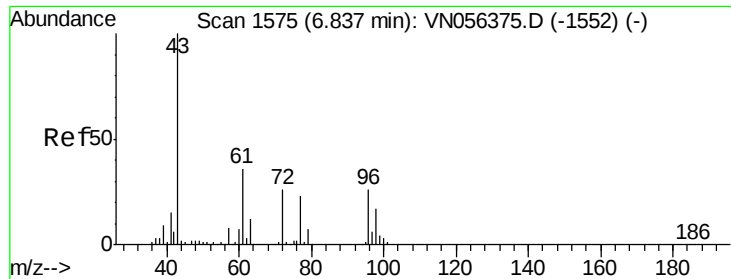
Ion Ratio Lower Upper

63 100

98 6.8 3.2 9.6

100 4.0 2.1 6.5





#25

2-Butanone

Concen: 245.719 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 693109

Ion Ratio Lower Upper

43 100

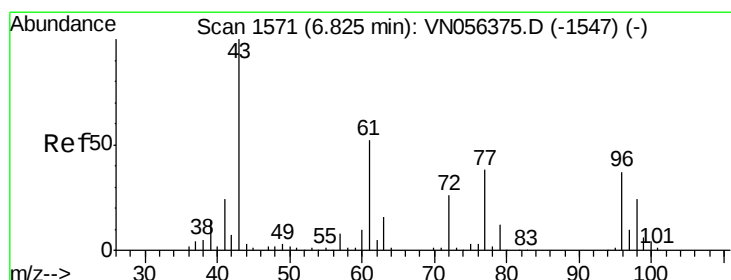
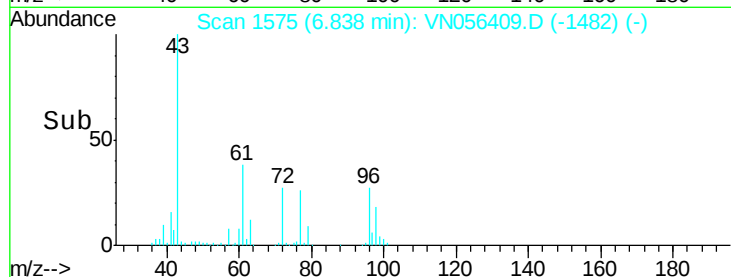
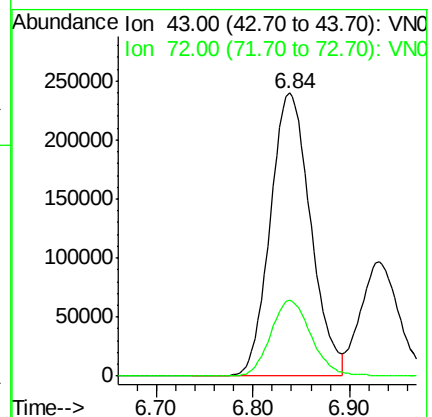
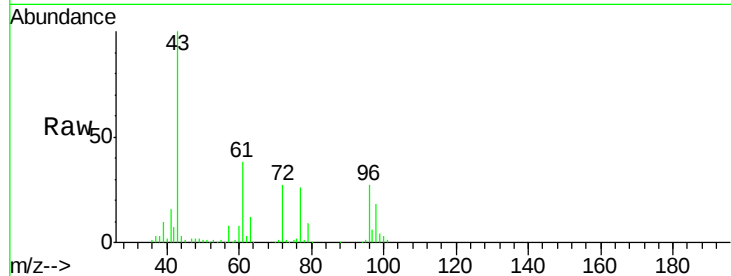
72 26.7 20.6 31.0

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#26

2,2-Dichloropropane

Concen: 50.214 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN056409.D

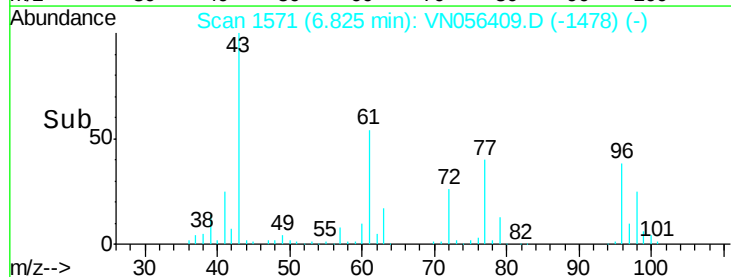
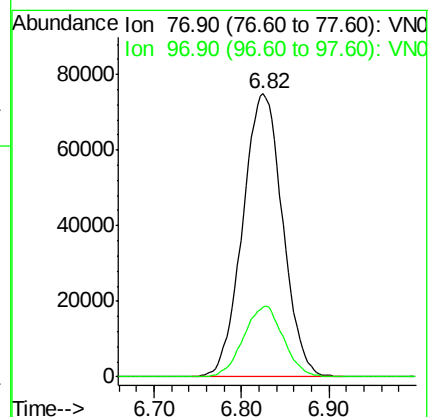
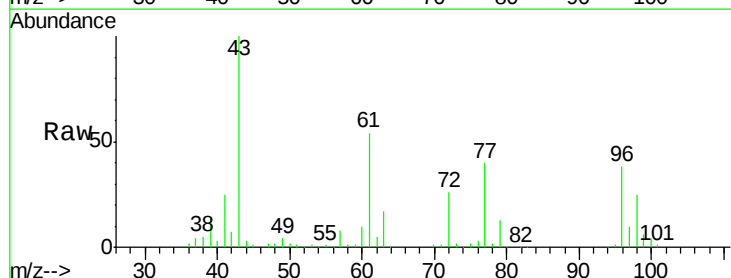
Acq: 20 Jun 2019 17:47

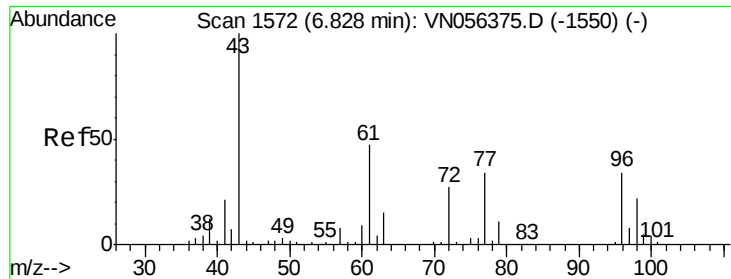
Tgt Ion: 77 Resp: 237630

Ion Ratio Lower Upper

77 100

97 24.8 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 49.557 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

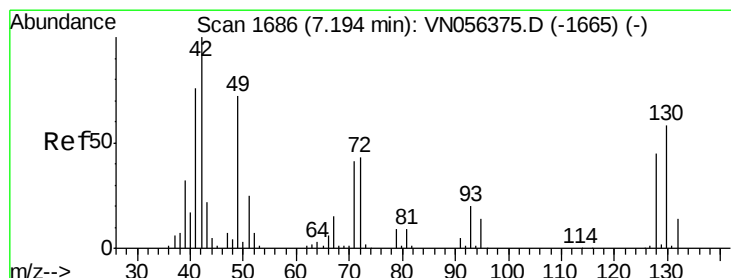
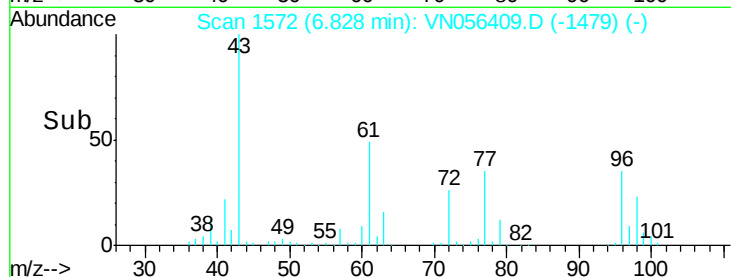
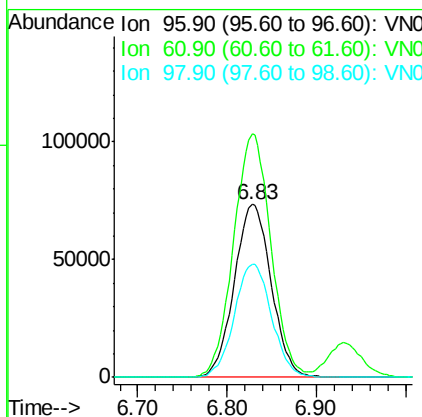
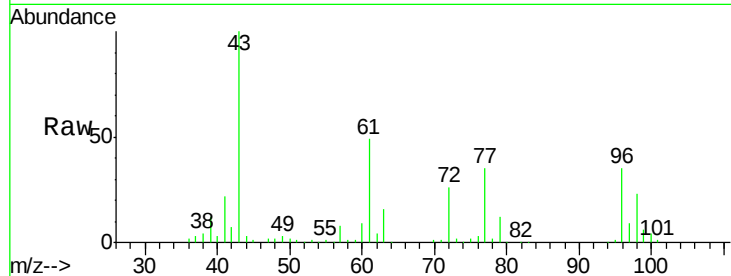
ClientSampleId :

VSTDCCC050EC

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 211947 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 141.9 | 0.0   | 279.8  |
| 98       | 66.0  | 0.0   | 130.0  |

Manual Integrations  
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#28

Bromochloromethane

Concen: 50.061 ug/l

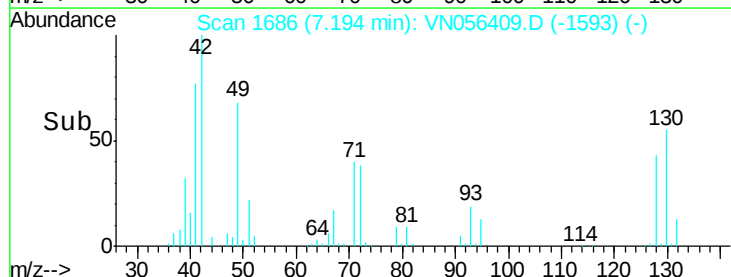
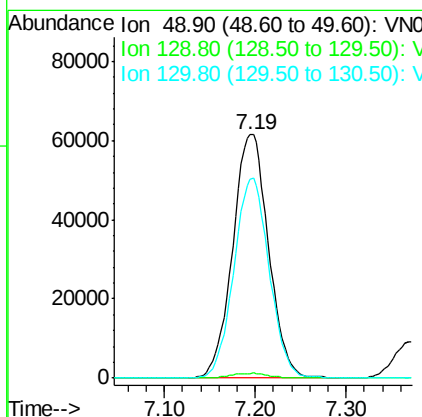
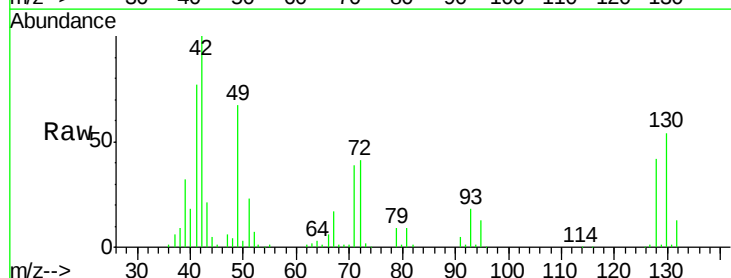
RT: 7.19 min Scan# 1686

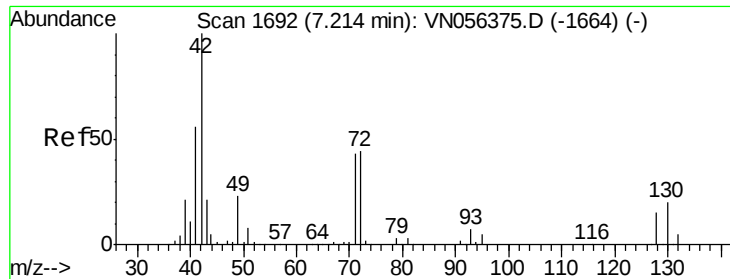
Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 49    | Resp: | 168483 |
| Ion      | Ratio | Lower | Upper  |
| 49       | 100   |       |        |
| 129      | 2.0   | 0.0   | 4.2    |
| 130      | 80.9  | 64.9  | 97.3   |





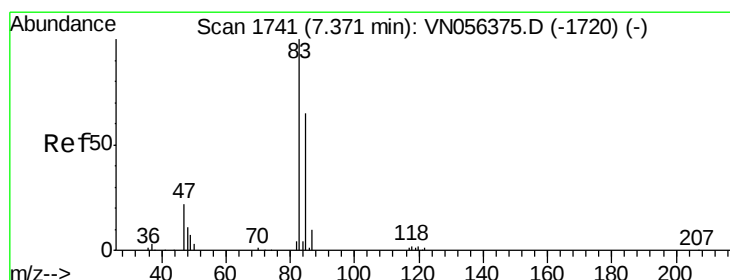
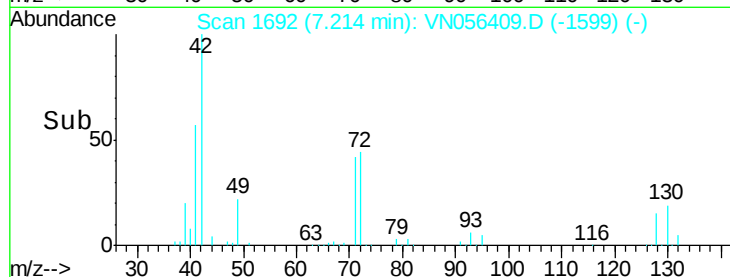
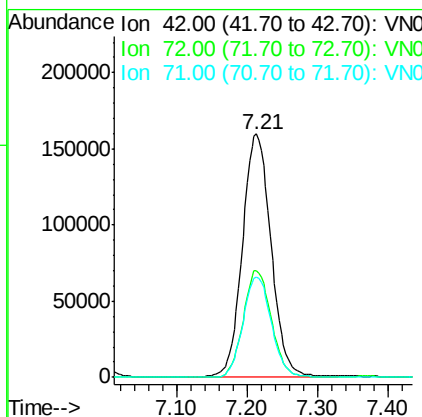
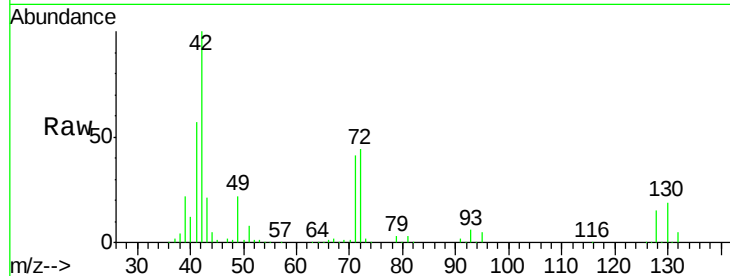
#29  
Tetrahydrofuran  
Concen: 262.695 ug/l  
RT: 7.21 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 43.0  | 34.7  | 52.1  |
| 71      | 40.8  | 33.0  | 49.6  |

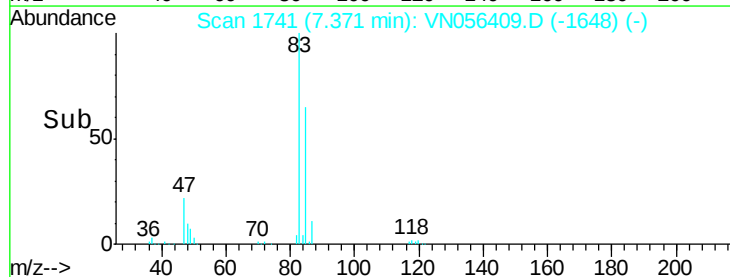
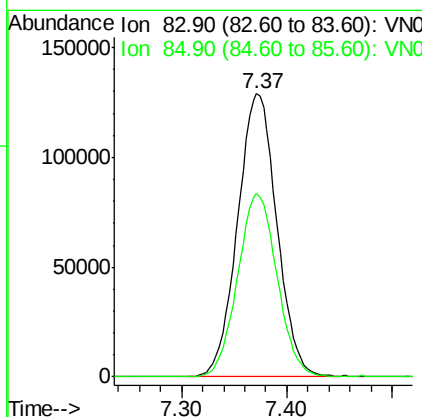
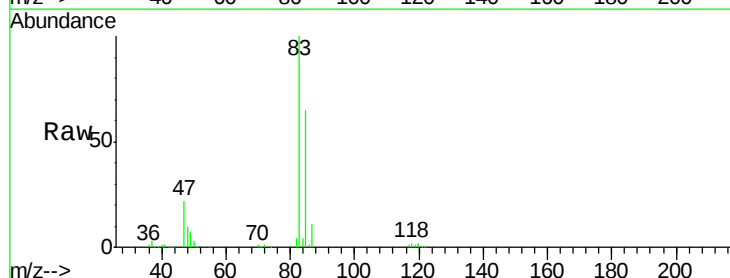
Manual Integrations  
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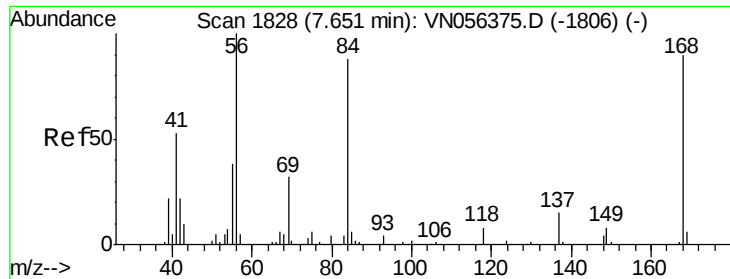
MMDadoda  
6/21/2019 10:50:35 PM



#30  
Chloroform  
Concen: 49.706 ug/l  
RT: 7.37 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.8  | 52.3  | 78.5  |





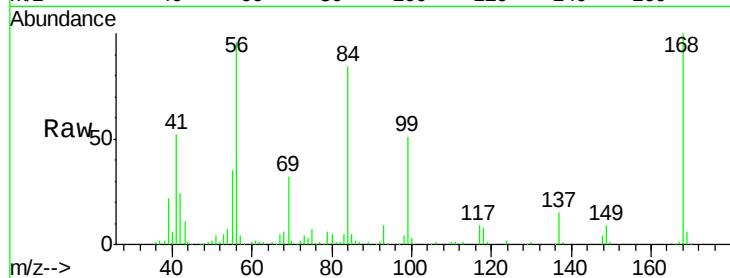
#31  
Cyclohexane  
Concen: 46.565 ug/l  
RT: 7.65 min Scan# 1829  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 33.3  | 25.8  | 38.6  |
| 84      | 85.8  | 69.4  | 104.0 |

Manual Integrations  
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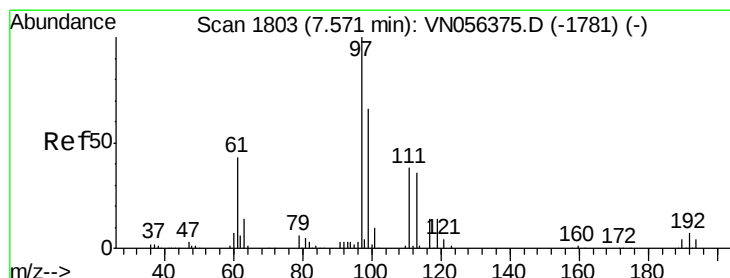
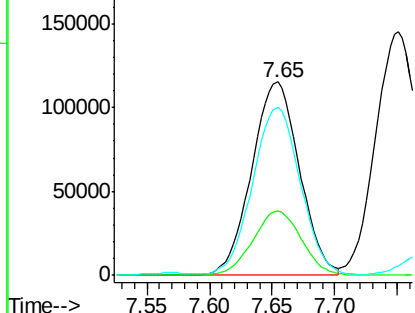
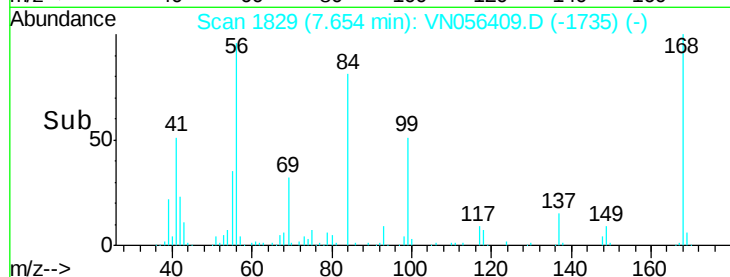


Abundance

Ion 56.00 (55.70 to 56.70): VNC

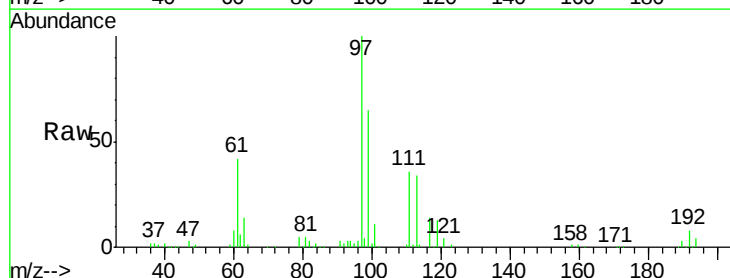
Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32  
1,1,1-Trichloroethane  
Concen: 50.392 ug/l  
RT: 7.57 min Scan# 1803  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.5  | 51.8  | 77.6  |
| 61      | 42.2  | 33.9  | 50.9  |

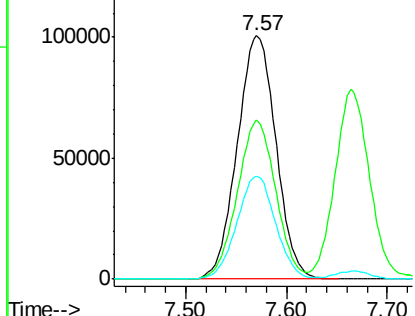
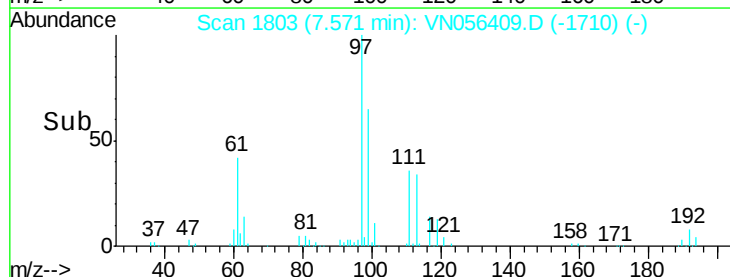


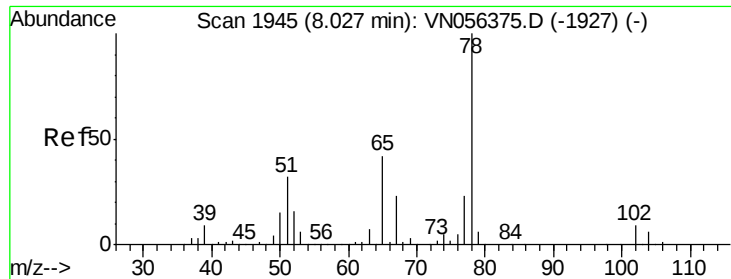
Abundance

Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





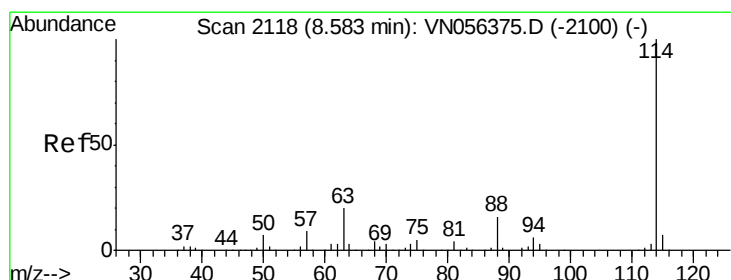
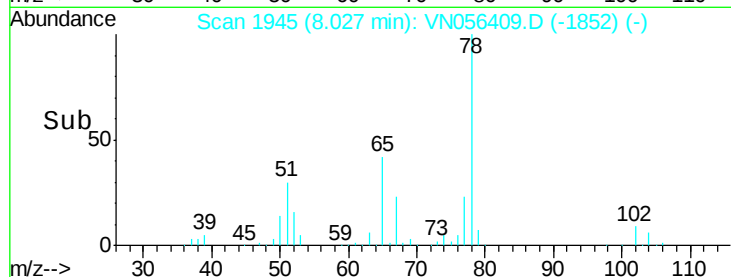
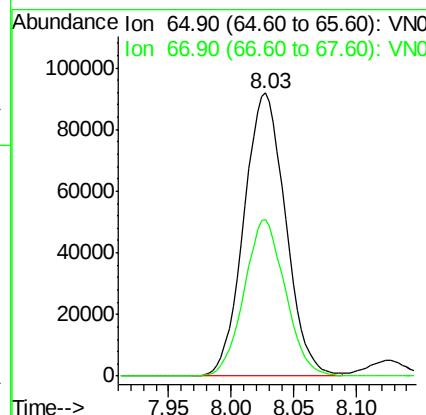
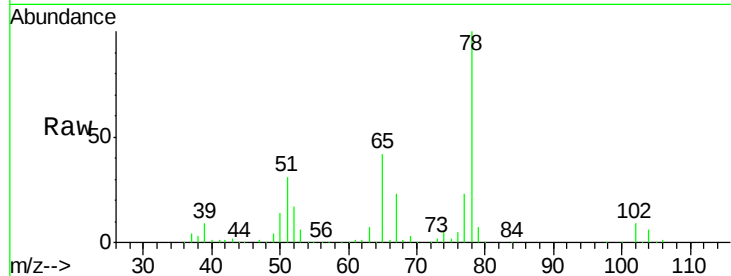
#33  
 1,2-Dichloroethane-d4  
 Concen: 49.963 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VSTDCCC050EC

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 65      | 100   |      |       |       |
| 67      | 54.5  | 0.0  | 109.0 |       |

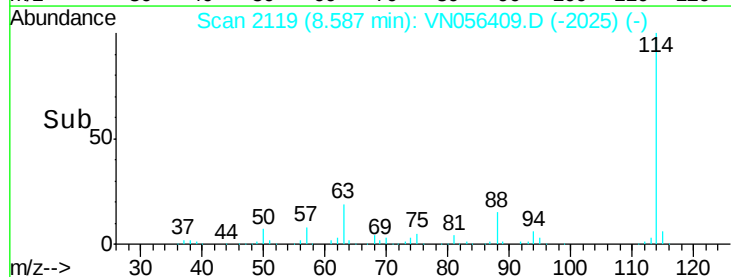
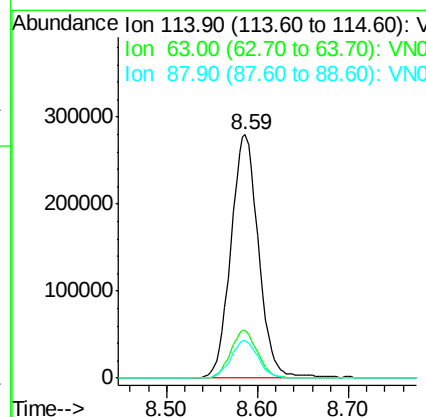
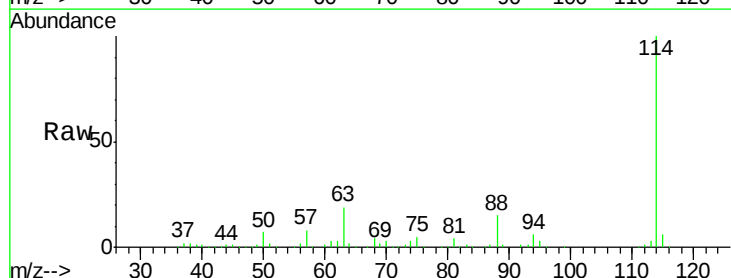
Manual Integrations  
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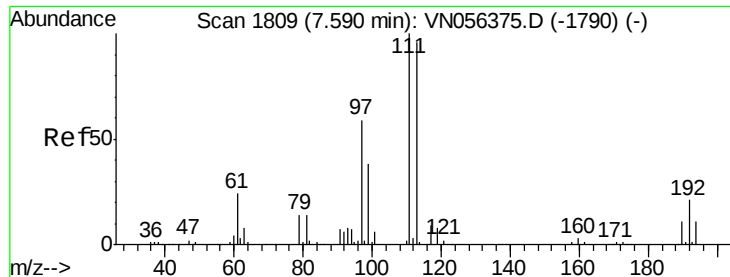
MMDadoda  
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 114     | 100   |      |       |       |
| 63      | 19.4  | 0.0  | 39.2  |       |
| 88      | 15.2  | 0.0  | 31.4  |       |





#35

Dibromofluoromethane

Concen: 50.216 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

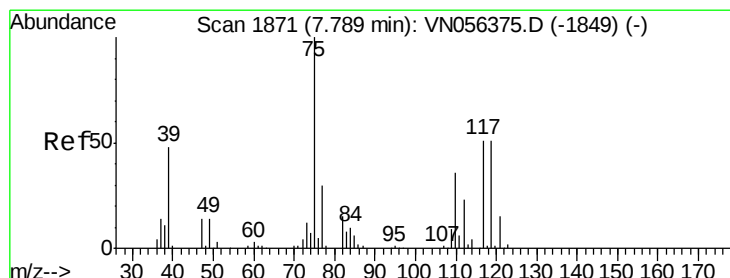
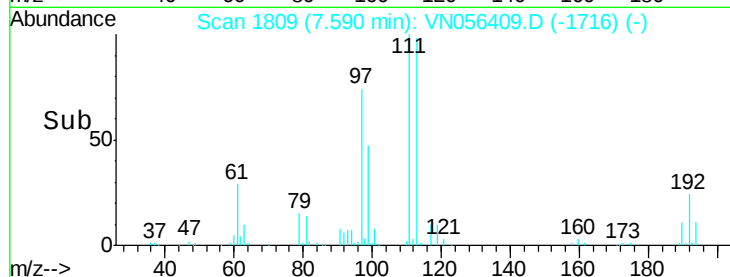
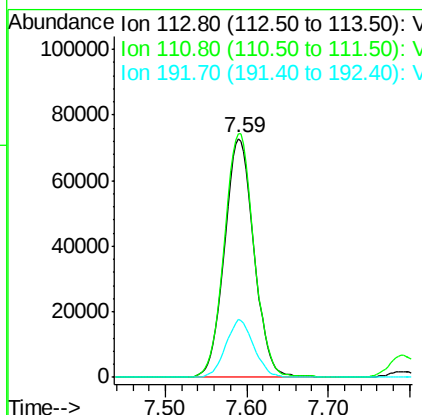
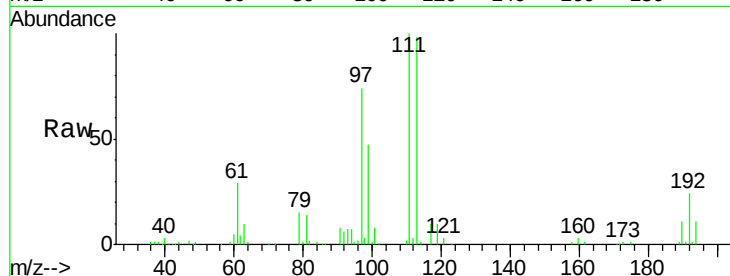
ClientSampleId :

VSTDCCC050EC

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 185073 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.3 | 82.9  | 124.3  |
| 192       | 23.0  | 17.7  | 26.5   |

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6/21/2019 10:50:35 PM



#36

1,1-Dichloropropene

Concen: 47.620 ug/l

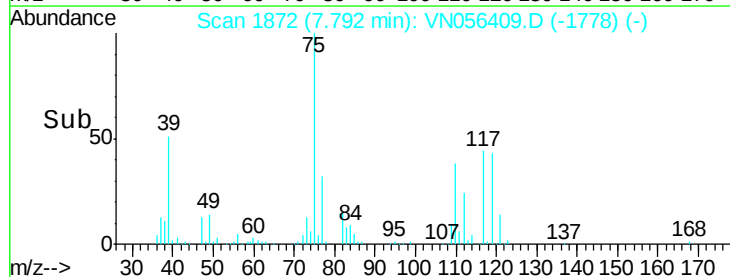
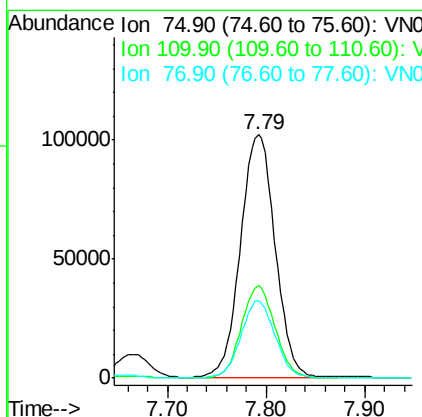
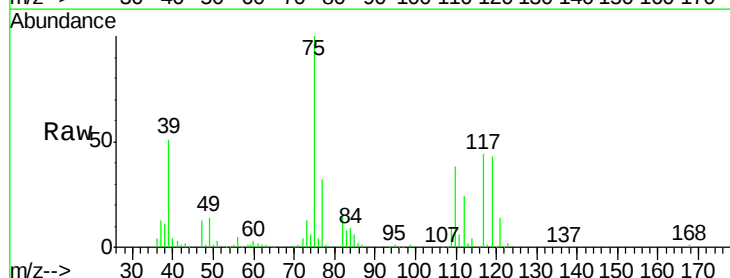
RT: 7.79 min Scan# 1872

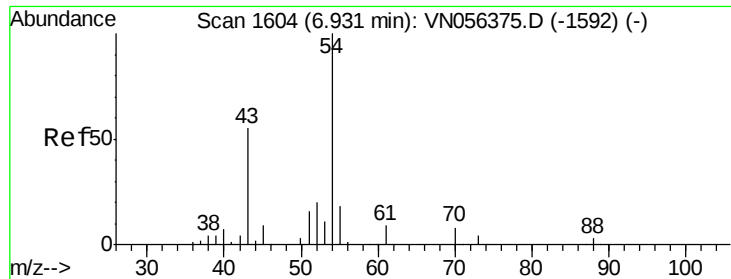
Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 247621 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 37.1  | 18.1  | 54.3   |
| 77        | 31.6  | 24.6  | 36.8   |





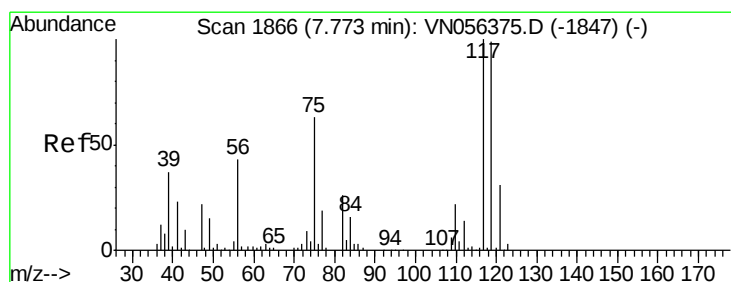
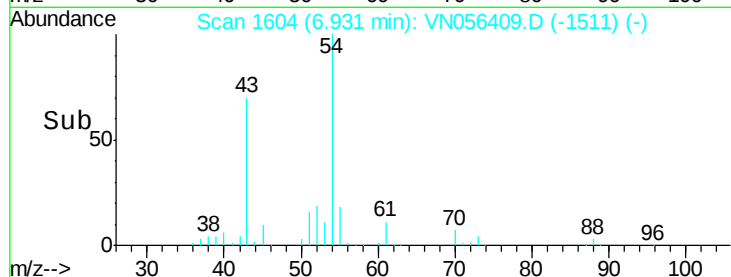
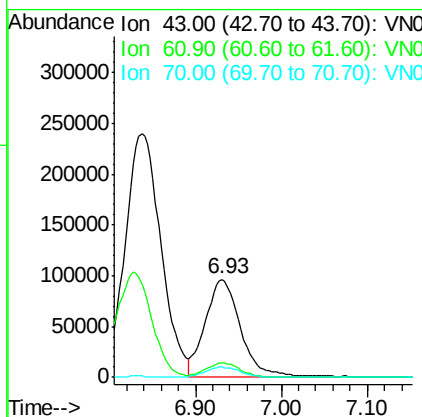
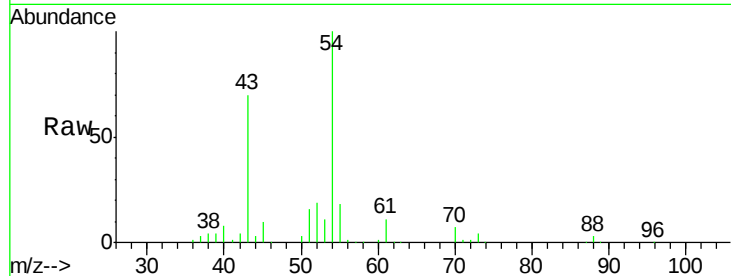
#37  
Ethyl Acetate  
Concen: 53.153 ug/l  
RT: 6.93 min Scan# 1604  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.4  | 11.1  | 16.7  |
| 70      | 10.6  | 8.3   | 12.5  |

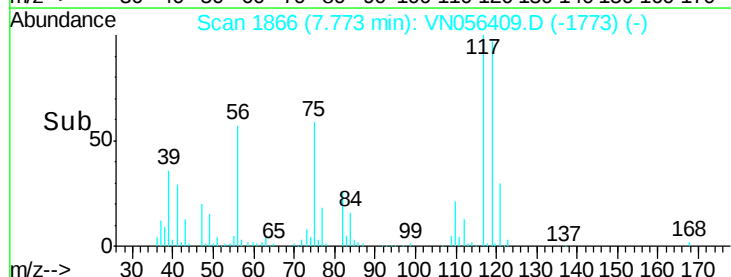
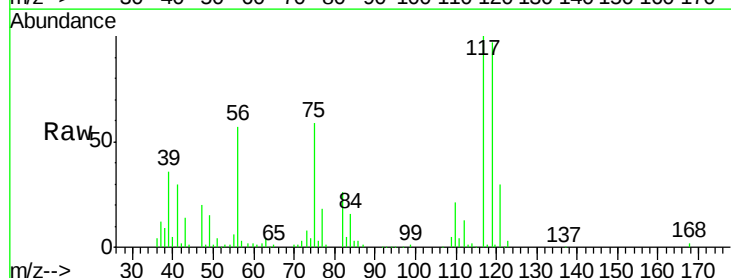
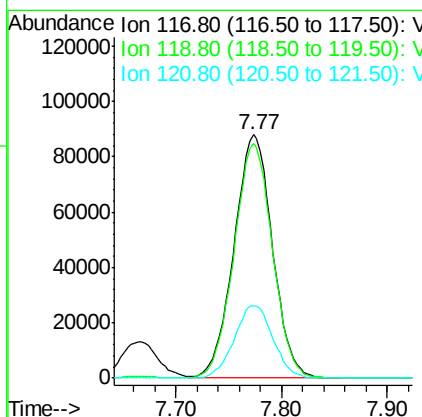
Manual Integrations  
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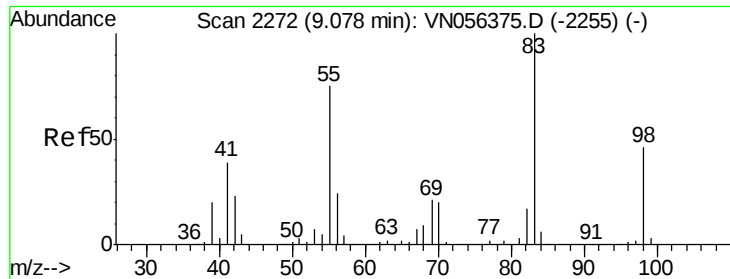
MMDadoda  
6/21/2019 10:50:35 PM



#38  
Carbon Tetrachloride  
Concen: 49.008 ug/l  
RT: 7.77 min Scan# 1866  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.4  | 79.1  | 118.7 |
| 121     | 29.9  | 24.8  | 37.2  |





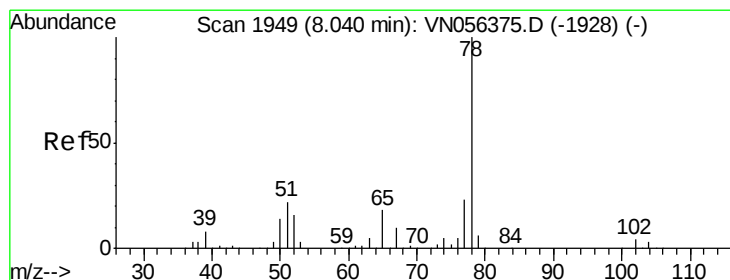
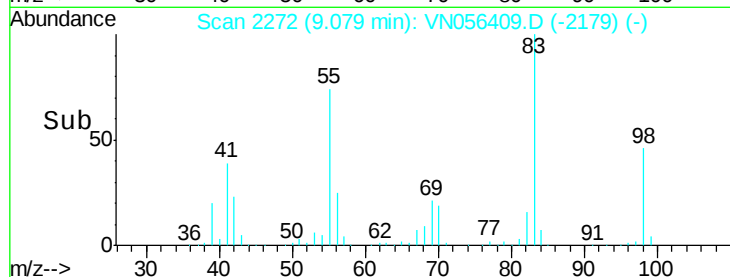
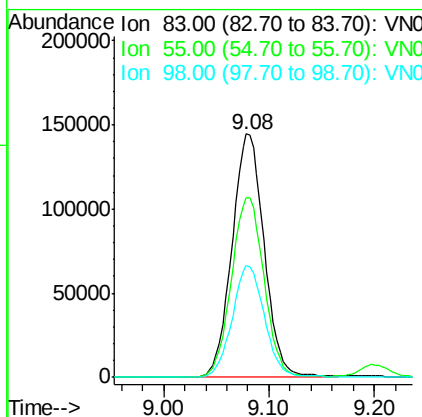
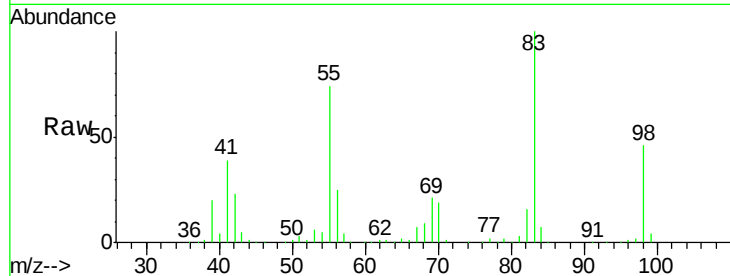
#39  
Methvlcvclohexane  
Concen: 47.781 ug/l  
RT: 9.08 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 55      | 73.7  | 60.0 | 90.0  |       |
| 98      | 45.8  | 36.6 | 54.8  |       |

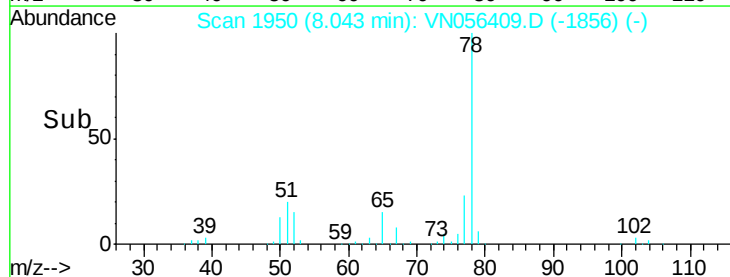
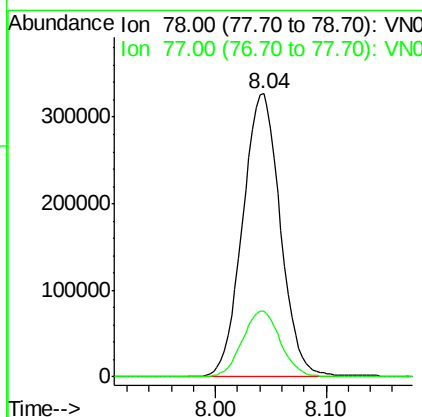
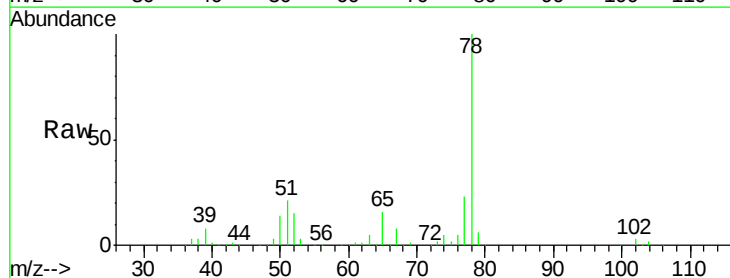
Manual Integrations  
APPROVED

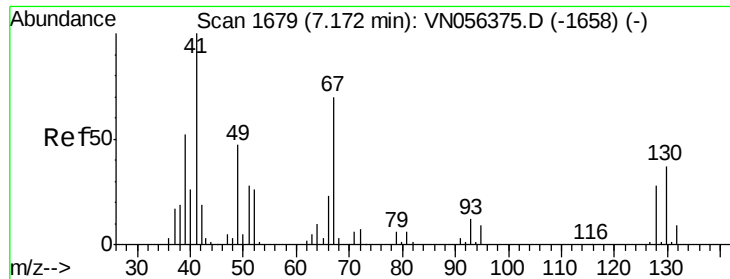
MMDadoda  
6/21/2019 10:50:35 PM



#40  
Benzene  
Concen: 48.425 ug/l  
RT: 8.04 min Scan# 1950  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 78      | 100   |      |       |       |
| 77      | 23.4  | 18.3 | 27.5  |       |





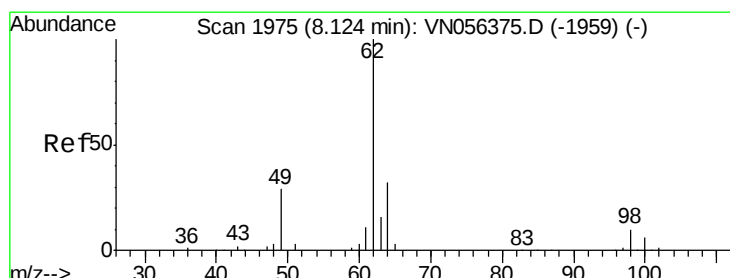
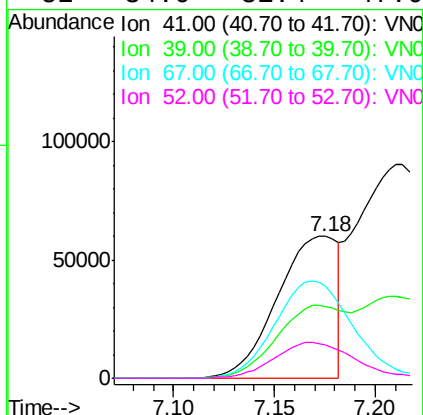
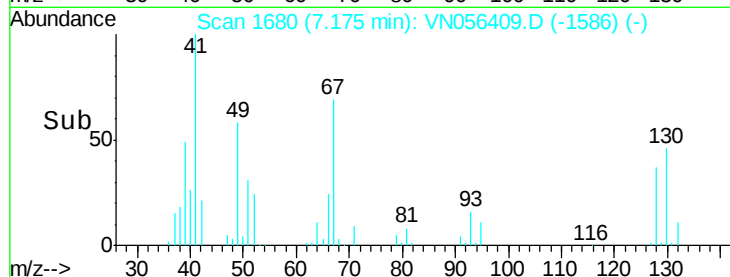
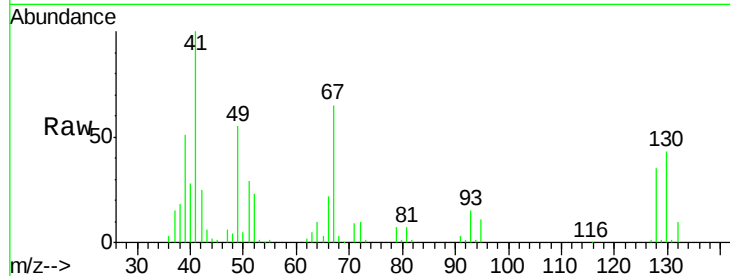
#41  
Methacrylonitrile  
Concen: 55.024 ug/l  
RT: 7.18 min Scan# 1680  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 59.9  | 55.3  | 82.9  |
| 67      | 89.8  | 79.2  | 118.8 |
| 52      | 34.0  | 31.4  | 47.0  |

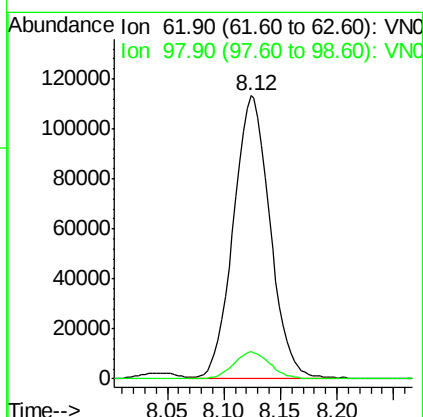
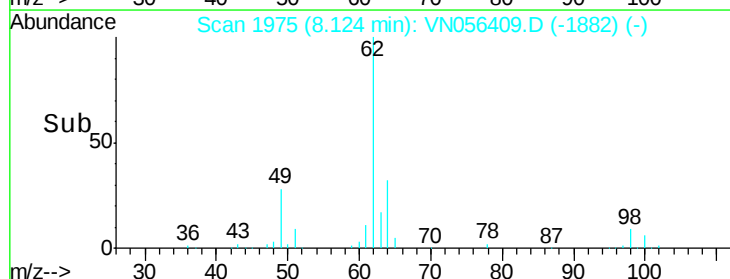
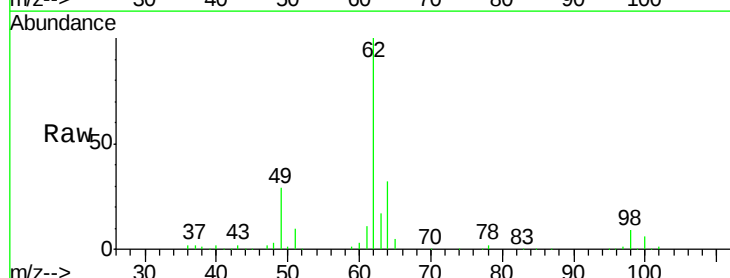
Manual Integrations  
APPROVED

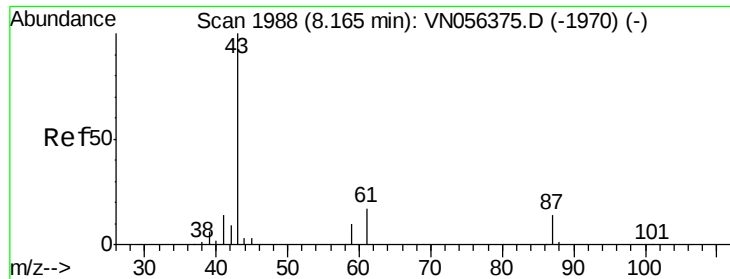
MMDadoda  
6/21/2019 10:50:35 PM



#42  
1,2-Dichloroethane  
Concen: 48.111 ug/l  
RT: 8.12 min Scan# 1975  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 9.6   | 0.0   | 19.4  |





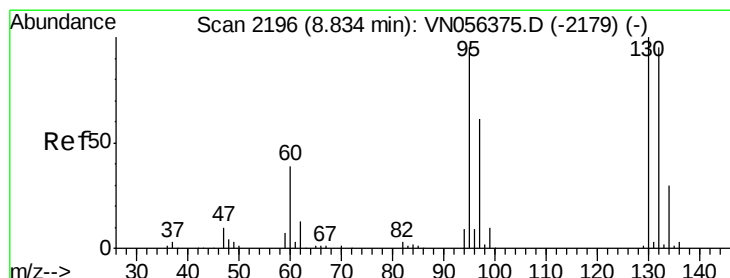
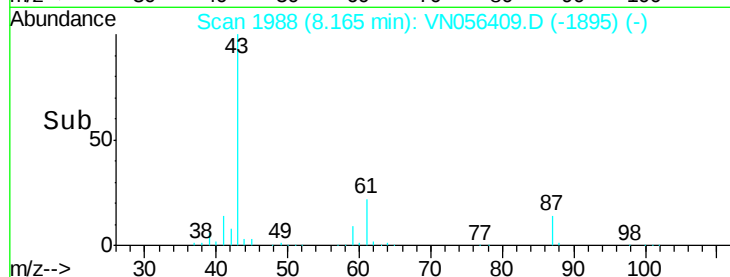
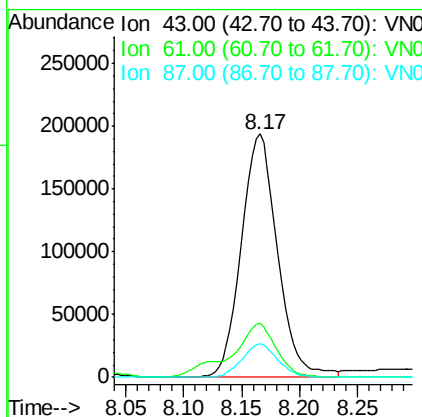
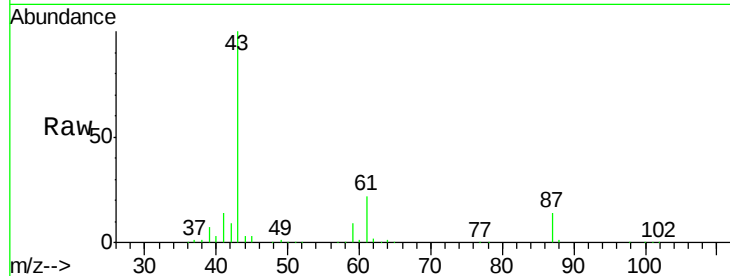
#43  
Isopropyl Acetate  
Concen: 53.315 ug/l  
RT: 8.17 min Scan# 1988  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 27.5  | 22.0  | 33.0  |
| 87      | 13.7  | 11.0  | 16.4  |

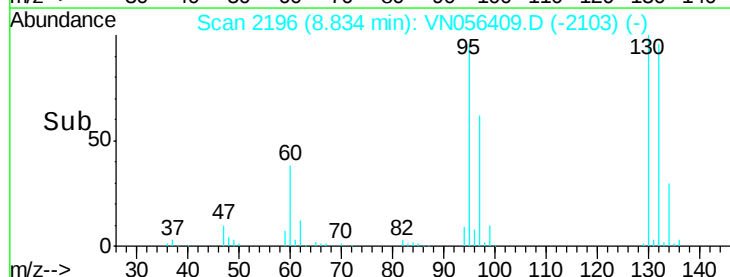
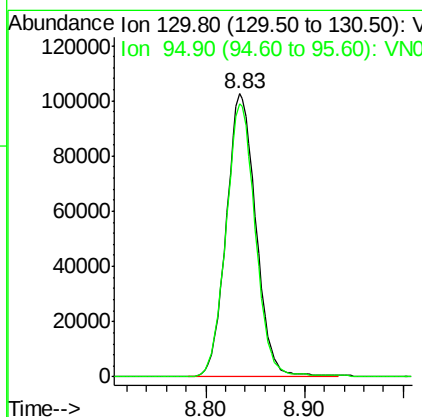
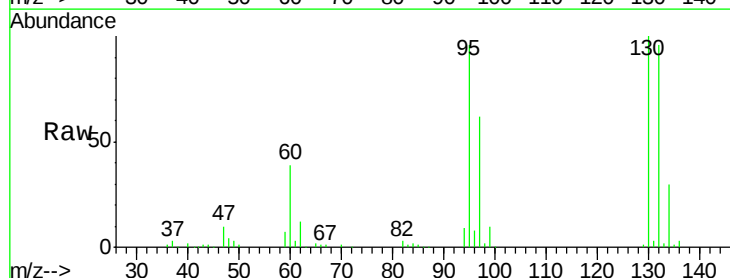
Manual Integrations  
APPROVED

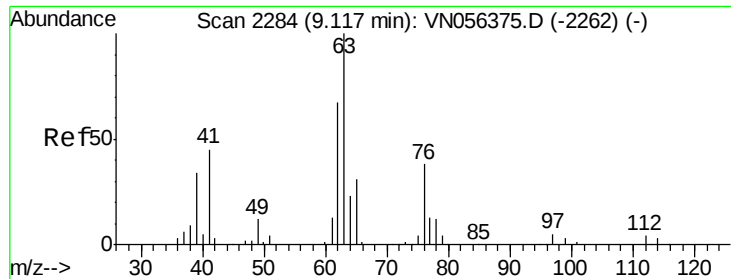
MMDadoda  
6/21/2019 10:50:35 PM



#44  
Trichloroethene  
Concen: 49.880 ug/l  
RT: 8.83 min Scan# 2196  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 96.4  | 0.0   | 191.0 |





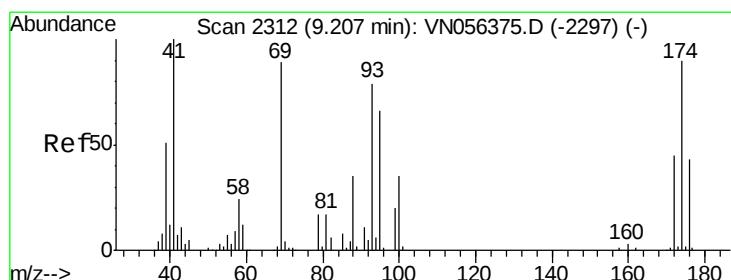
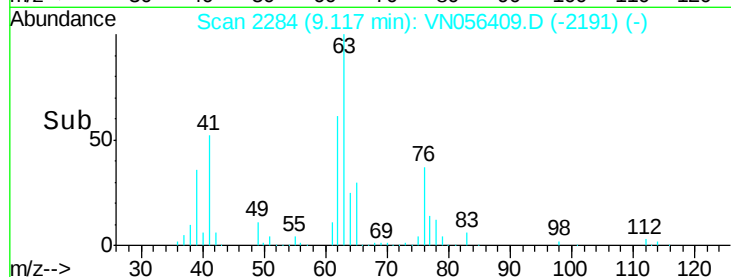
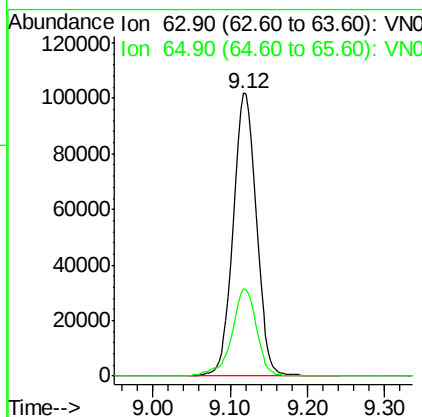
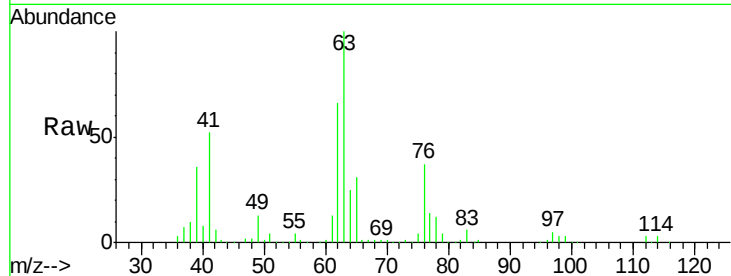
#45  
 1,2-Dichloropropane  
 Concen: 49.272 ug/l  
 RT: 9.12 min Scan# 2284  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Tot Ion: 63 Resp: 210767  
 Ion Ratio Lower Upper  
 63 100  
 65 30.8 25.0 37.6

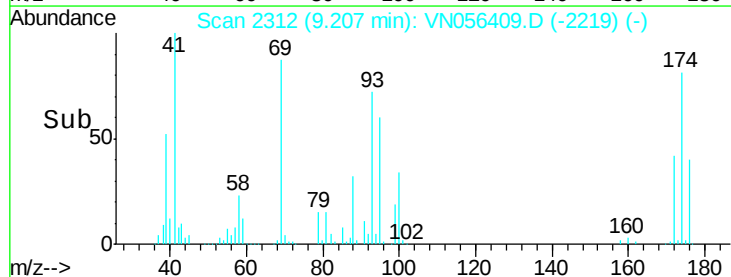
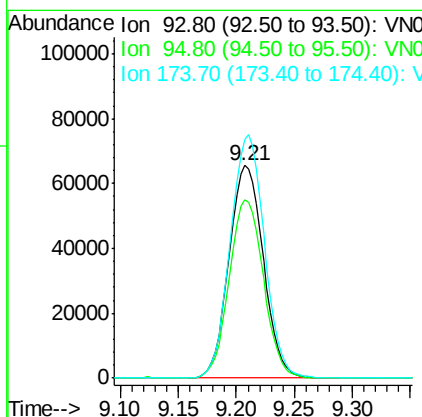
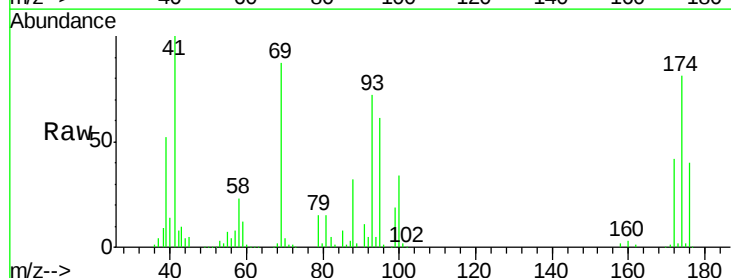
Manual Integrations  
 APPROVED

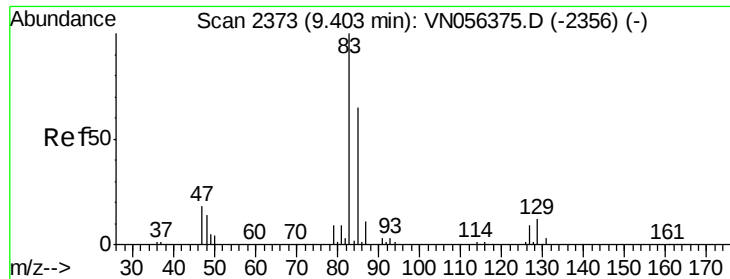
MMDadoda  
 6/21/2019 10:50:35 PM



#46  
 Dibromomethane  
 Concen: 50.386 ug/l  
 RT: 9.21 min Scan# 2312  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Tgt Ion: 93 Resp: 134847  
 Ion Ratio Lower Upper  
 93 100  
 95 83.4 66.2 99.2  
 174 113.2 90.8 136.2





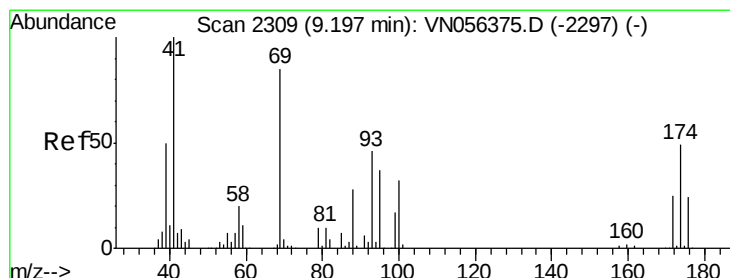
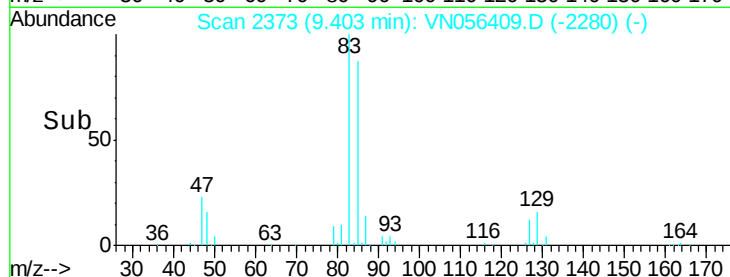
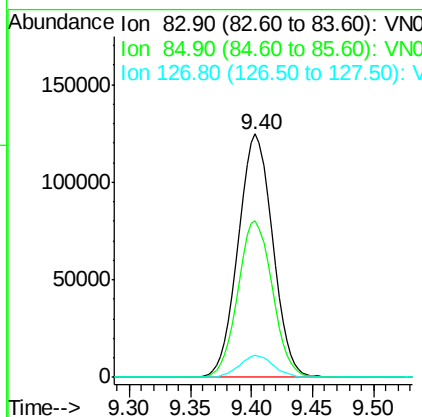
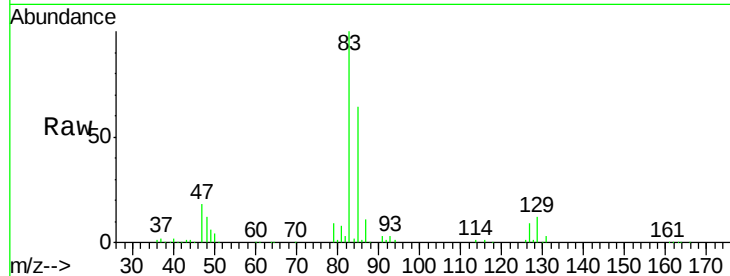
#47  
Bromodichloromethane  
Concen: 51.531 ug/l  
RT: 9.40 min Scan# 2373  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion   | 83   | Resp  | 244592 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 64.2 | 52.2  | 78.4   |
| 127       | 9.0  | 7.3   | 10.9   |

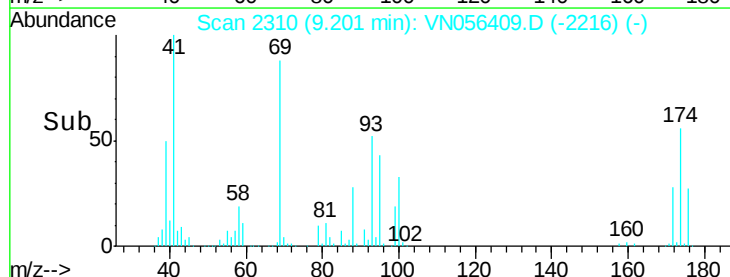
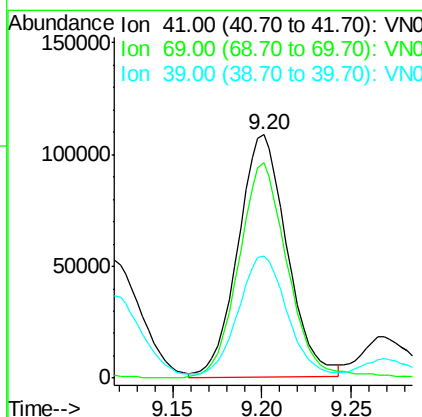
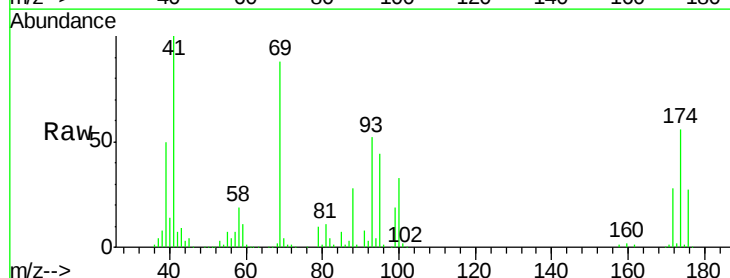
Manual Integrations  
APPROVED

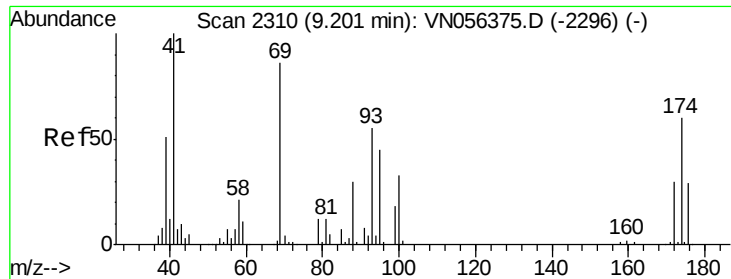
MMDadoda  
6/21/2019 10:50:35 PM



#48  
Methyl methacrylate  
Concen: 52.853 ug/l  
RT: 9.20 min Scan# 2310  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion   | 41   | Resp  | 208703 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 41        | 100  |       |        |
| 69        | 87.9 | 72.6  | 109.0  |
| 39        | 50.6 | 42.6  | 63.8   |





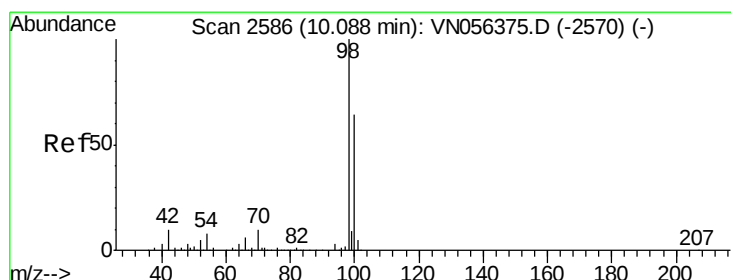
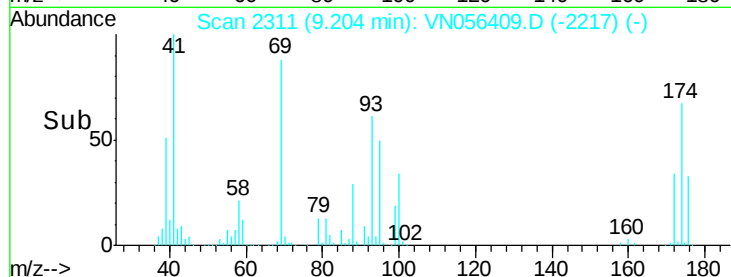
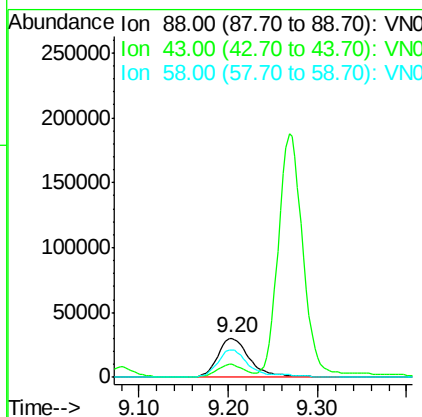
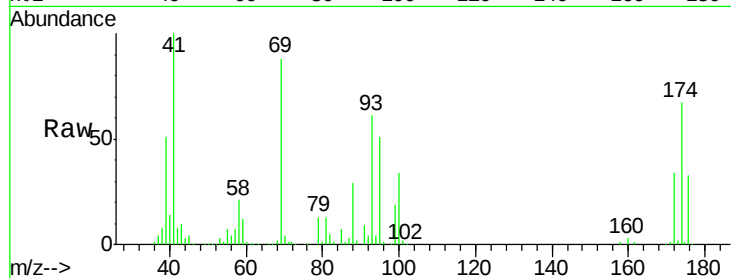
#49  
1,4-Dioxane  
Concen: 934.654 ug/l  
RT: 9.20 min Scan# 2311  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | 88    | Resp  | 76590 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 88      | 100   |       |       |
| 43      | 26.8  | 22.0  | 33.0  |
| 58      | 70.1  | 51.8  | 77.8  |

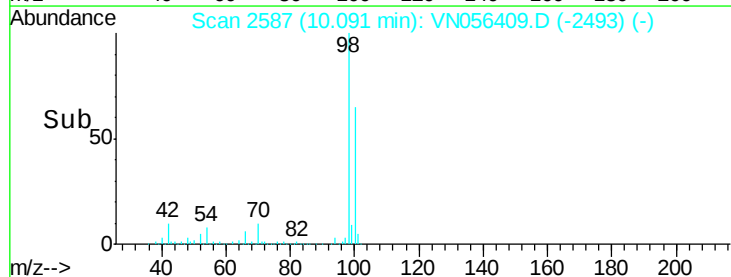
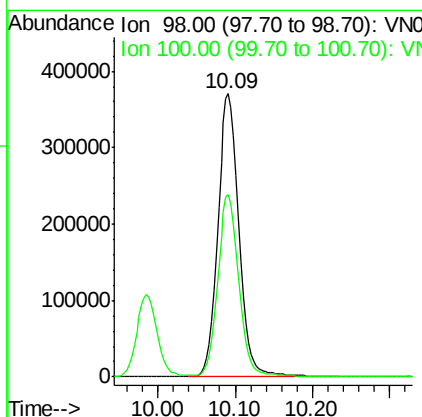
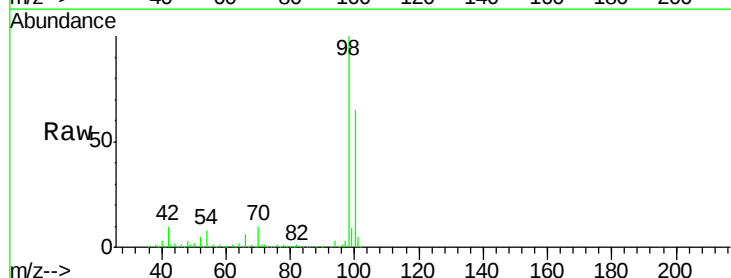
Manual Integrations  
APPROVED

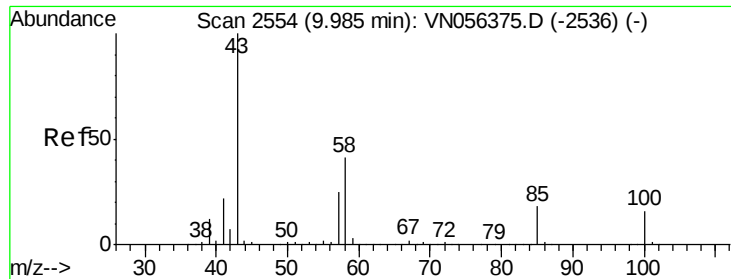
MMDadoda  
6/21/2019 10:50:35 PM



#50  
Toluene-d8  
Concen: 49.414 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | 98    | Resp  | 708625 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 98      | 100   |       |        |
| 100     | 64.8  | 52.2  | 78.2   |





#51

4-Methyl-2-Pentanone

Concen: 260.953 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1327186

Ion Ratio Lower Upper

43 100

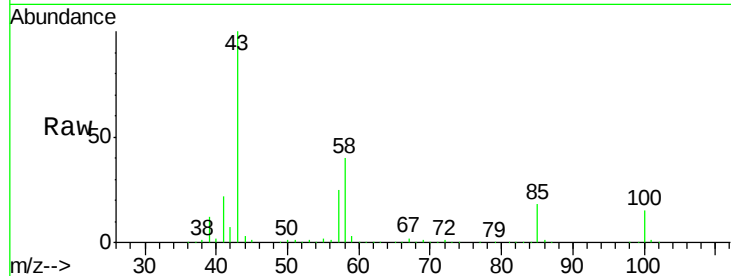
58 39.7 31.8 47.8

Manual Integrations

APPROVED

MMDadoda

6/21/2019 10:50:35 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

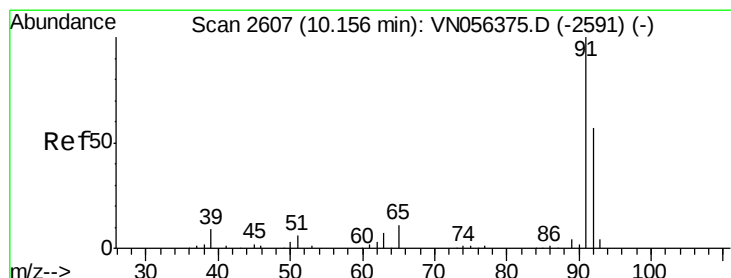
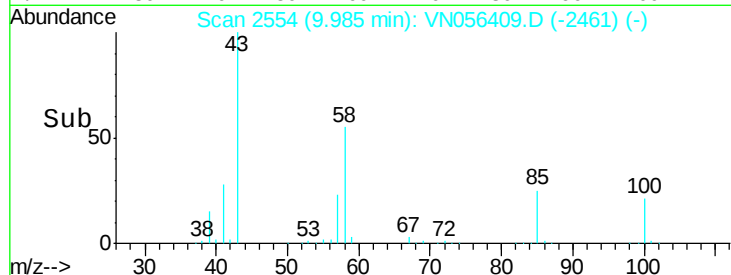
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 48.955 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056409.D

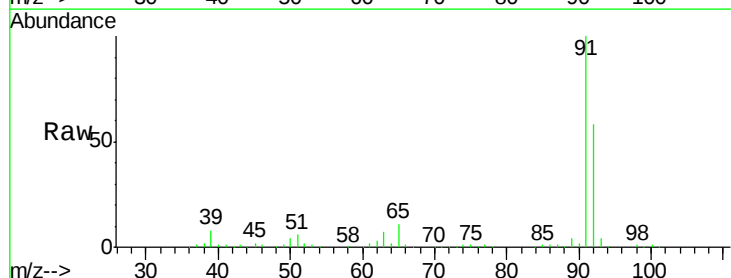
Acq: 20 Jun 2019 17:47

Tgt Ion: 92 Resp: 478731

Ion Ratio Lower Upper

92 100

91 174.4 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

500000

400000

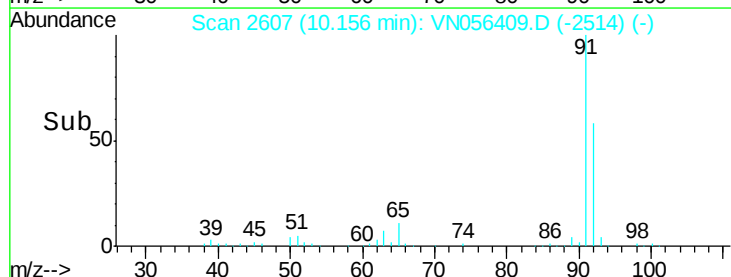
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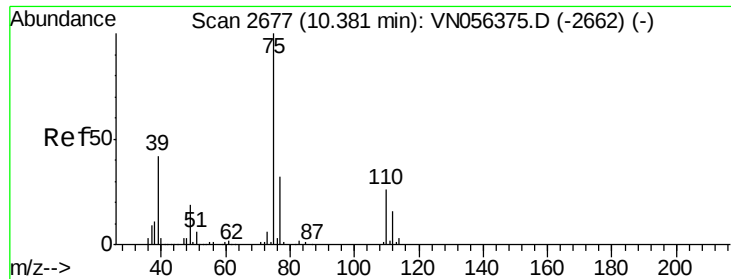
200000

100000

0

Time-->





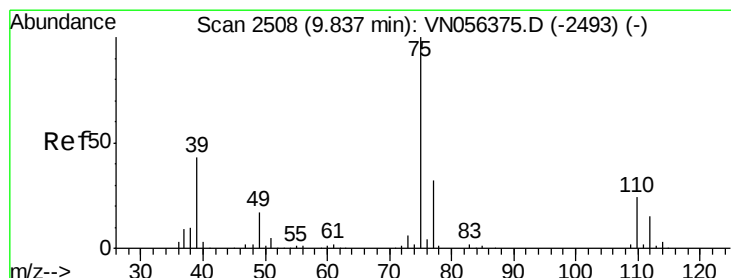
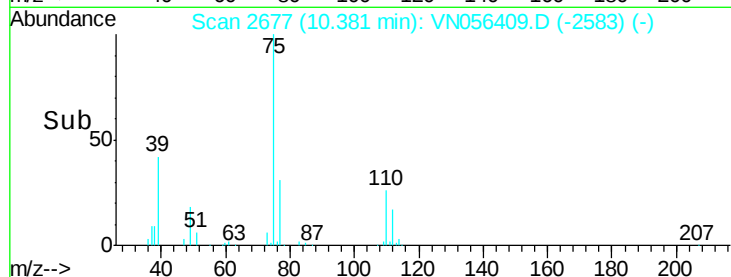
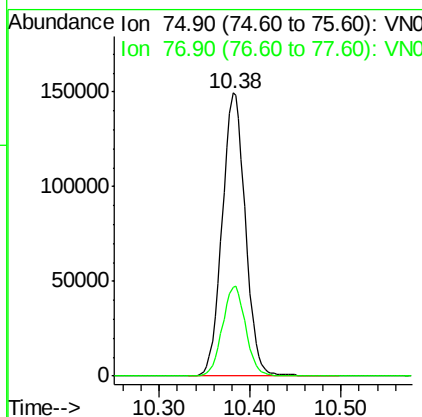
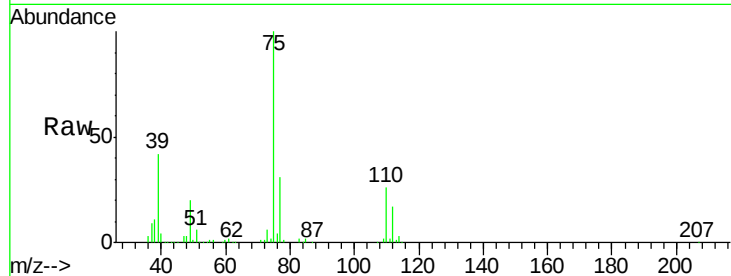
#53  
t-1,3-Dichloropropene  
Concen: 48.021 ug/l  
RT: 10.38 min Scan# 2677  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Tot Ion: 75 Resp: 264807  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.4 38.2

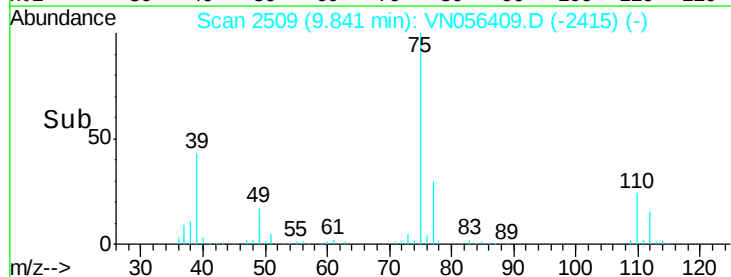
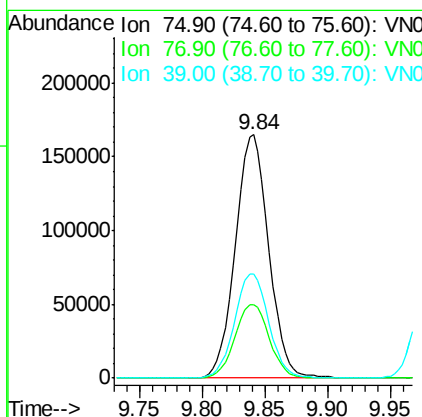
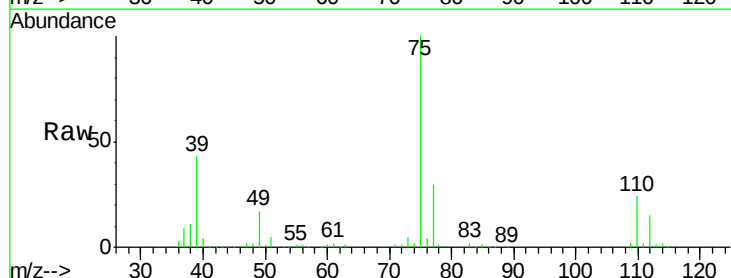
Manual Integrations  
APPROVED

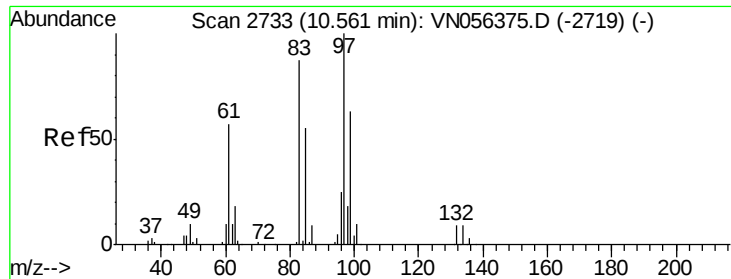
MMDadoda  
6/21/2019 10:50:35 PM



#54  
cis-1,3-Dichloropropene  
Concen: 53.359 ug/l  
RT: 9.84 min Scan# 2509  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Tgt Ion: 75 Resp: 304997  
Ion Ratio Lower Upper  
75 100  
77 30.1 25.2 37.8  
39 42.8 34.2 51.4





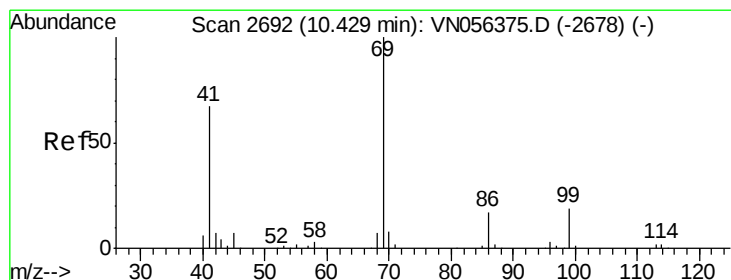
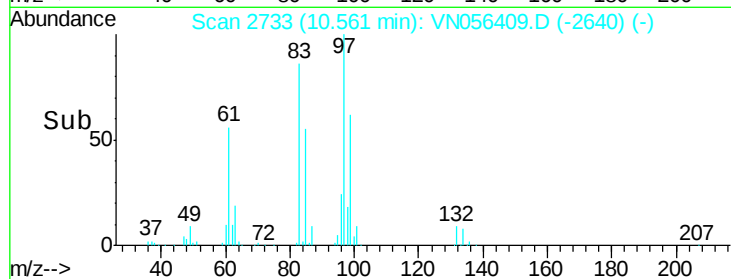
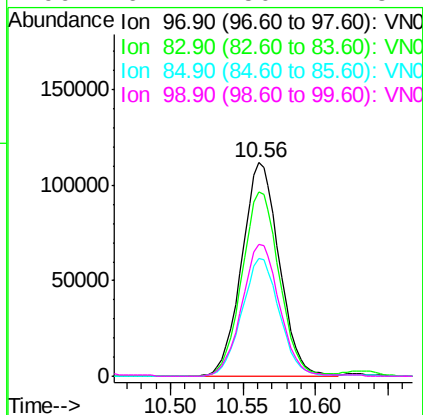
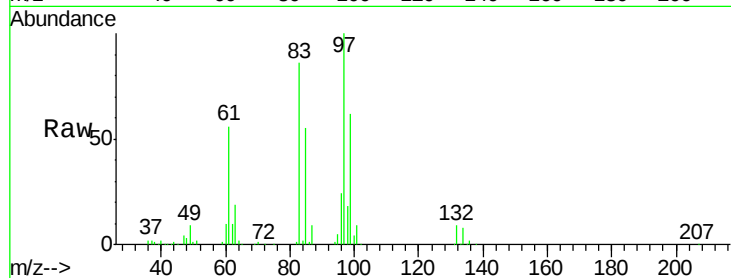
#55  
 1,1,2-Trichloroethane  
 Concen: 51.130 ug/l  
 RT: 10.56 min Scan# 2733  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

| Tot Ion | 97    | Resp  | 200980 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 97      | 100   |       |        |
| 83      | 86.4  | 69.8  | 104.6  |
| 85      | 55.4  | 43.8  | 65.8   |
| 99      | 61.7  | 50.2  | 75.2   |

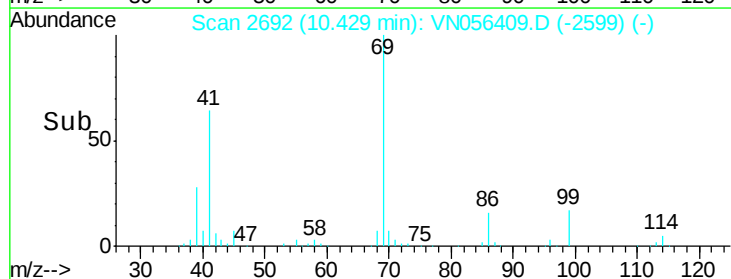
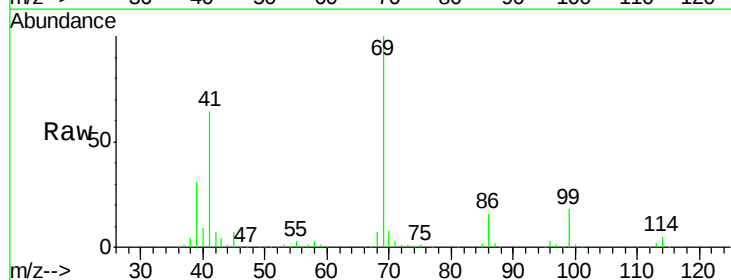
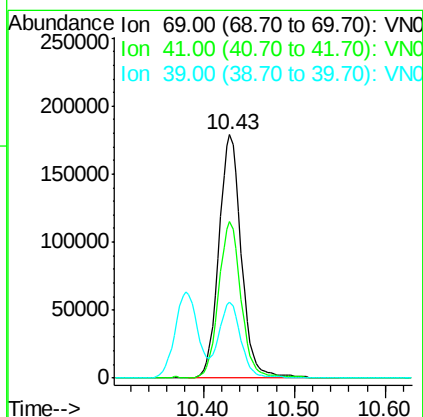
Manual Integrations  
 APPROVED

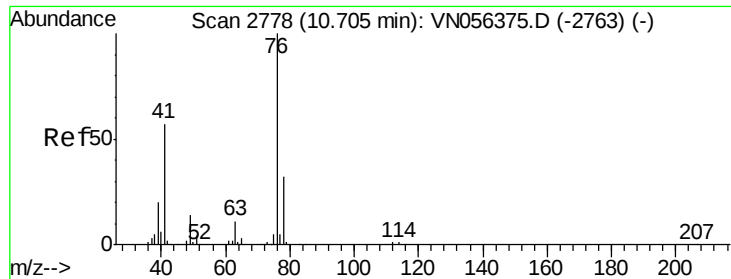
MMDadoda  
 6/21/2019 10:50:35 PM



#56  
 Ethyl methacrylate  
 Concen: 53.527 ug/l  
 RT: 10.43 min Scan# 2692  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | 69    | Resp  | 307485 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 69      | 100   |       |        |
| 41      | 63.6  | 51.4  | 77.2   |
| 39      | 30.4  | 24.7  | 37.1   |





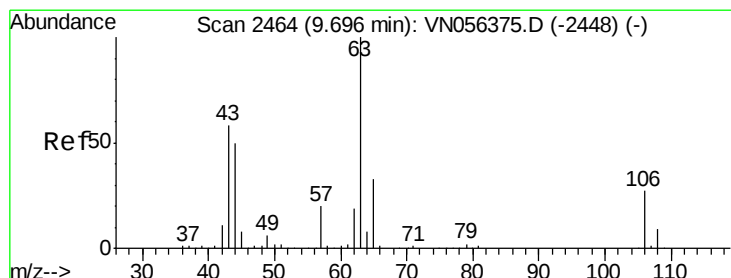
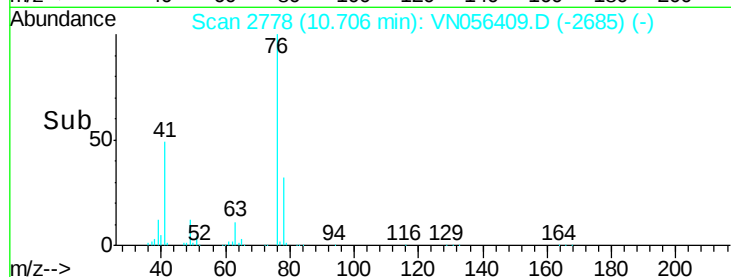
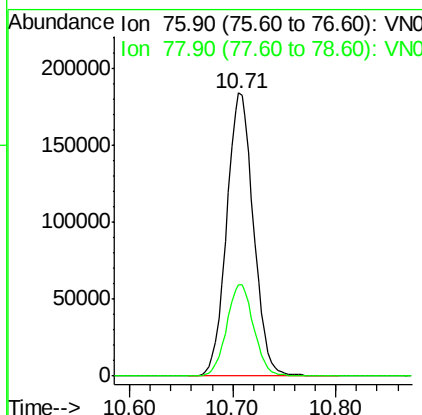
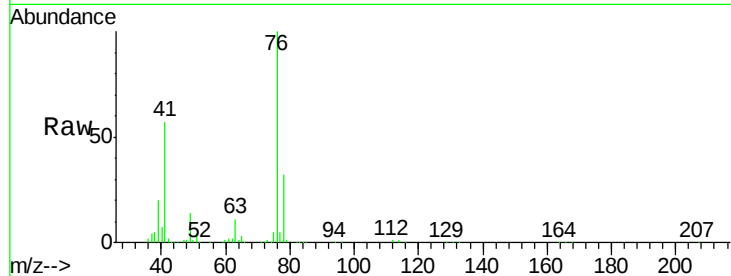
#57  
 1,3-Dichloropropane  
 Concen: 50.508 ug/l  
 RT: 10.71 min Scan# 2778  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Tot Ion: 76 Resp: 333527  
 Ion Ratio Lower Upper  
 76 100  
 78 32.7 25.9 38.9

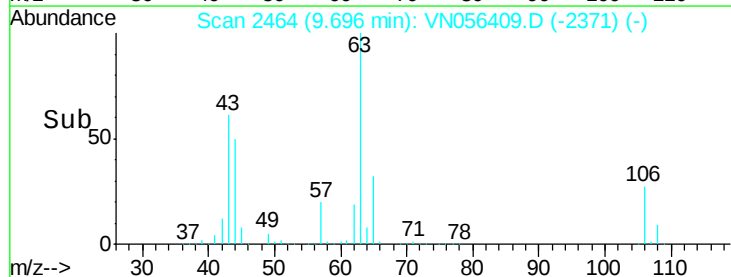
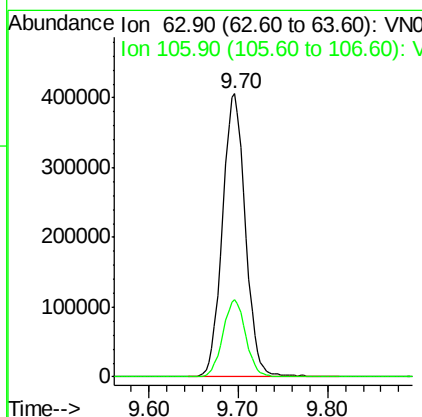
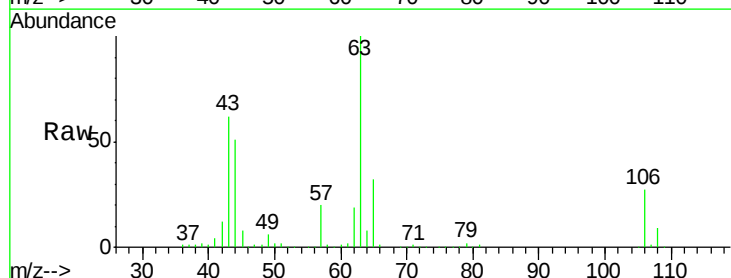
Manual Integrations  
 APPROVED

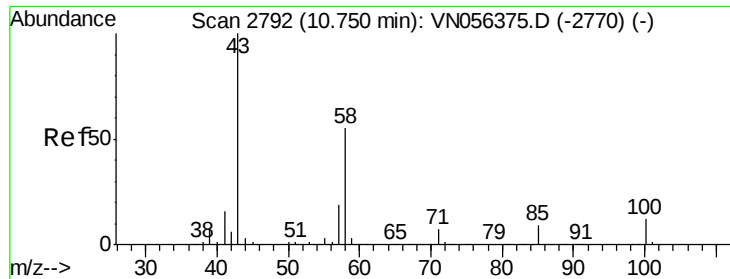
MMDadoda  
 6/21/2019 10:50:35 PM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 350.798 ug/l  
 RT: 9.70 min Scan# 2464  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Tgt Ion: 63 Resp: 723950  
 Ion Ratio Lower Upper  
 63 100  
 106 27.2 21.6 32.4





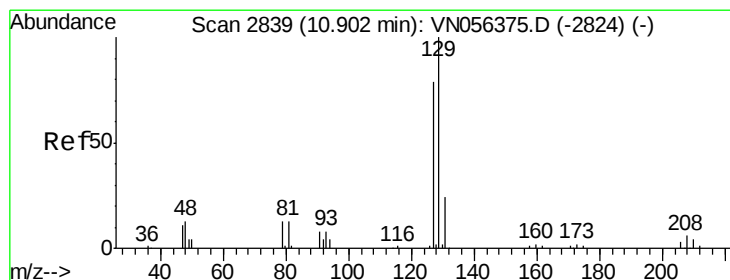
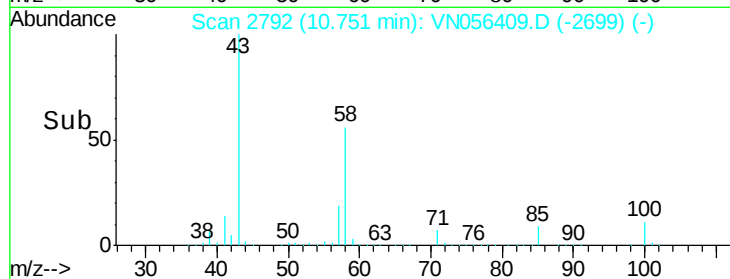
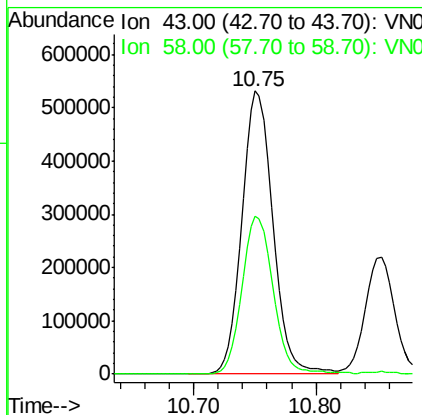
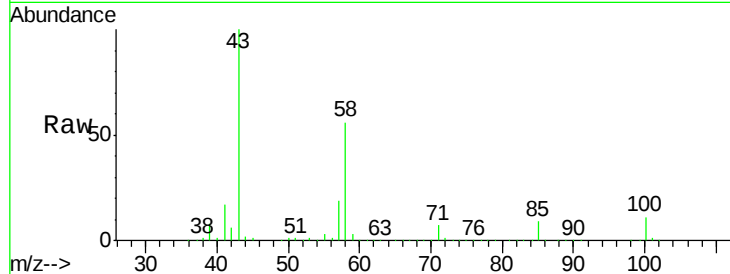
#59  
2-Hexanone  
Concen: 248.478 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Tot Ion: 43 Resp: 928803  
Ion Ratio Lower Upper  
43 100  
58 56.3 27.8 83.4

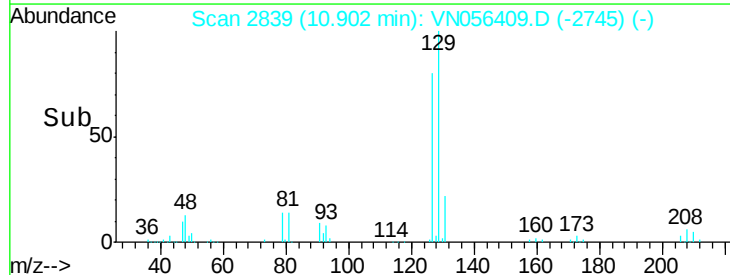
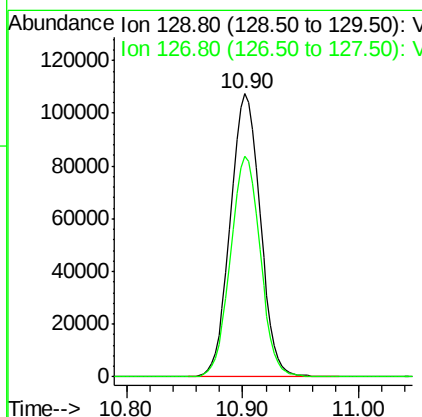
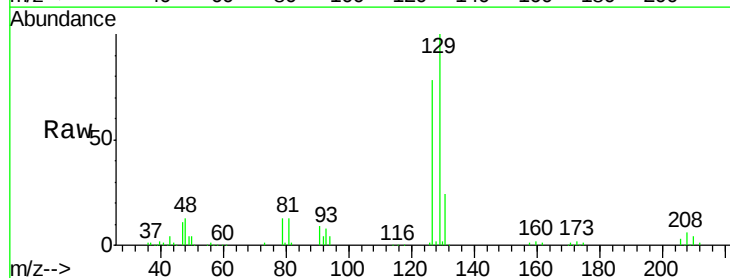
Manual Integrations  
APPROVED

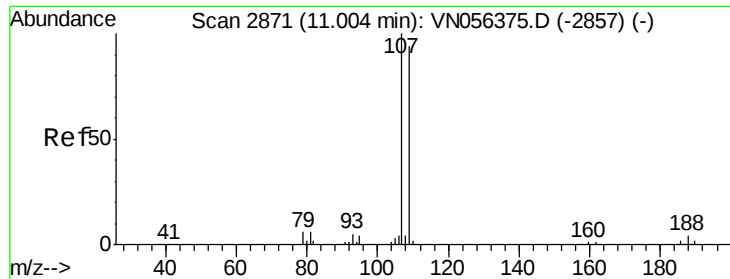
MMDadoda  
6/21/2019 10:50:35 PM



#60  
Dibromochloromethane  
Concen: 47.644 ug/l  
RT: 10.90 min Scan# 2839  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Tgt Ion: 129 Resp: 192020  
Ion Ratio Lower Upper  
129 100  
127 77.4 38.9 116.7





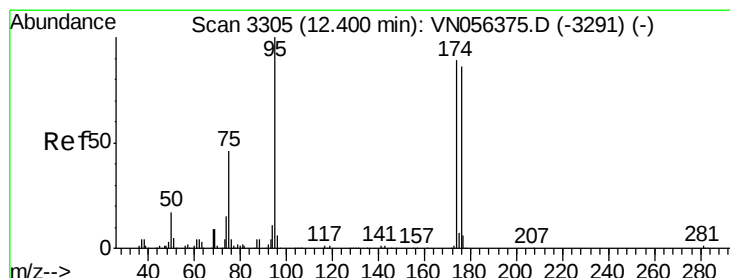
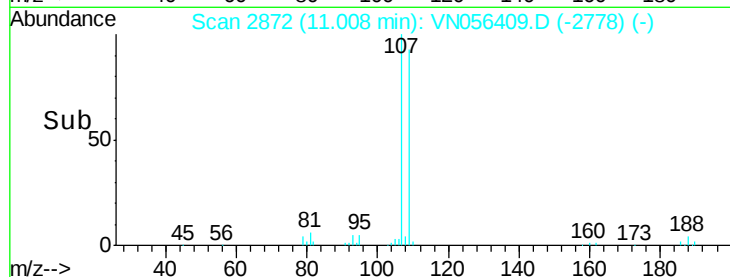
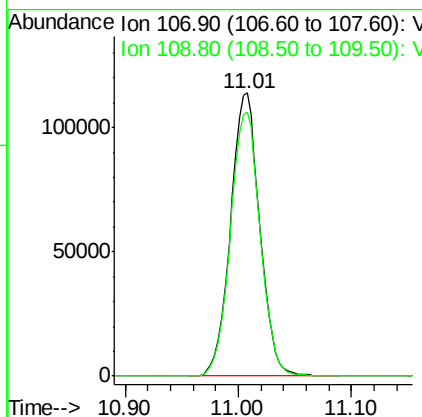
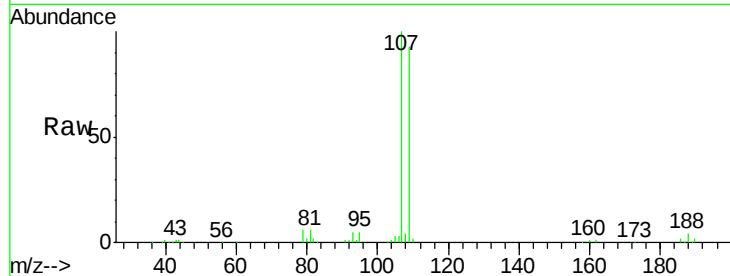
#61  
 1,2-Dibromoethane  
 Concen: 50.785 ug/l  
 RT: 11.01 min Scan# 2872  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 203883 |       |       |
| 109     | 95.6  | 75.3   | 112.9 |       |

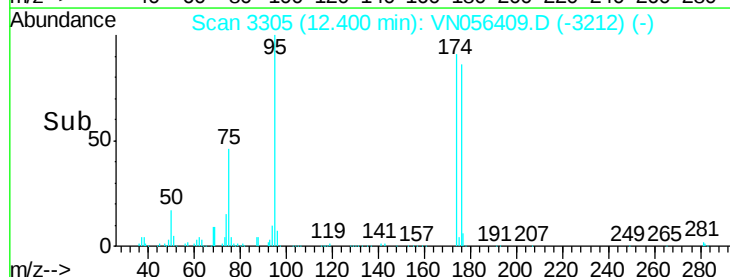
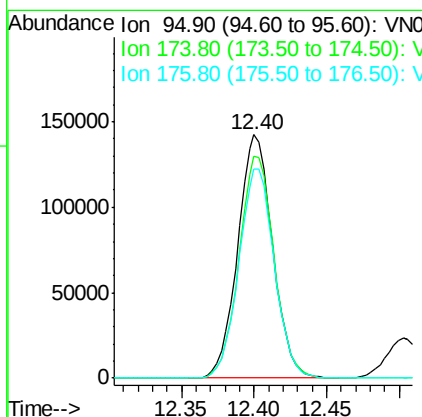
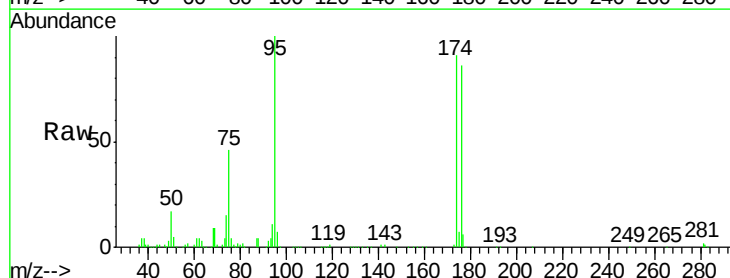
Manual Integrations  
 APPROVED

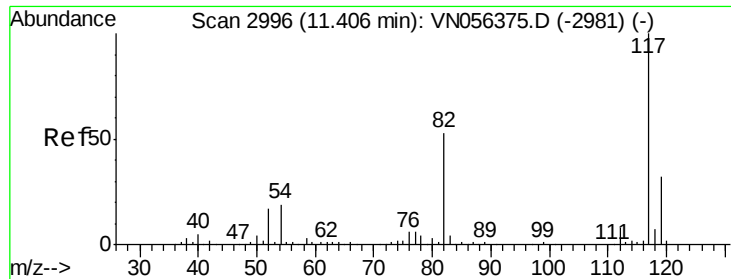
MMDadoda  
 6/21/2019 10:50:35 PM



#62  
 4-Bromofluorobenzene  
 Concen: 49.643 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 237323 |       |       |
| 174     | 92.0  | 0.0    | 179.4 |       |
| 176     | 87.4  | 0.0    | 173.4 |       |





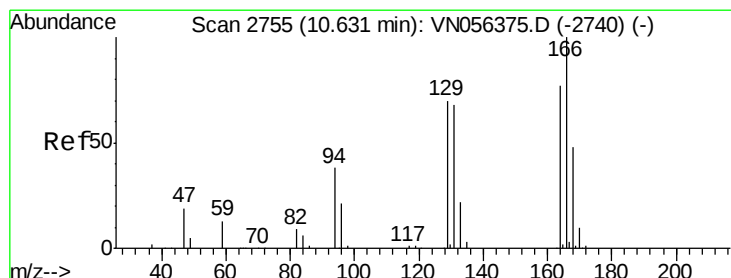
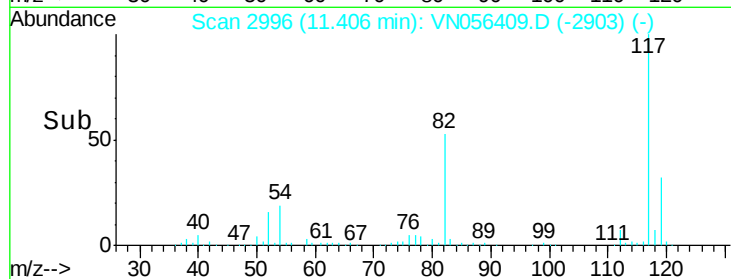
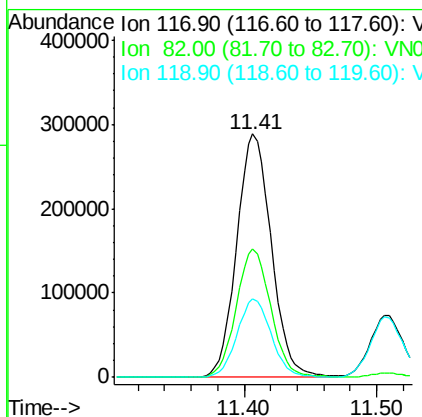
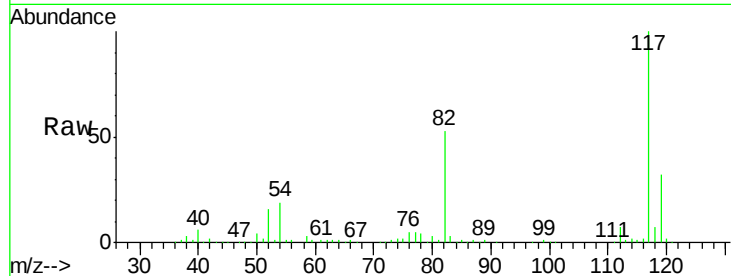
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.7  | 42.0  | 63.0  |
| 119     | 32.2  | 25.3  | 37.9  |

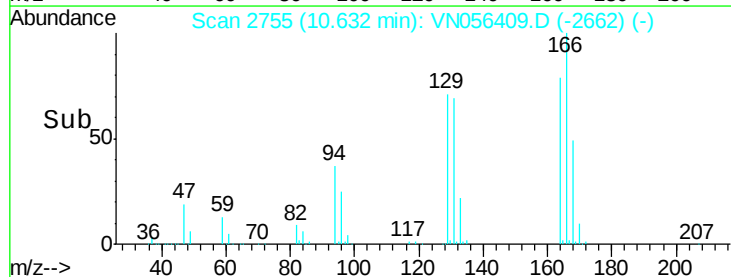
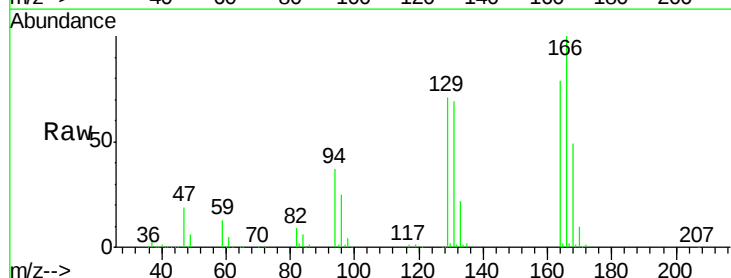
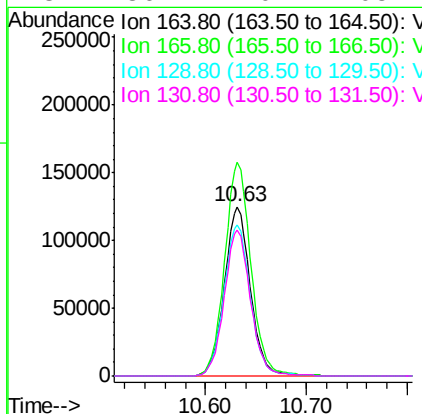
Manual Integrations  
APPROVED

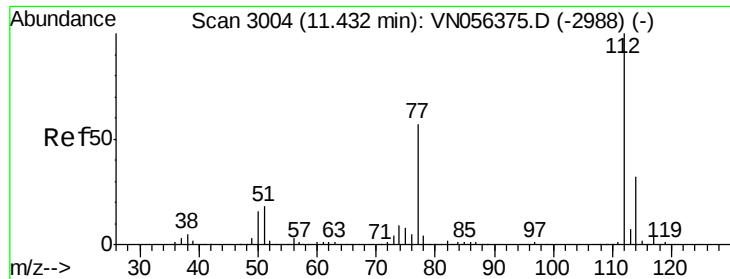
MMDadoda  
6/21/2019 10:50:35 PM



#64  
Tetrachloroethene  
Concen: 54.003 ug/l  
RT: 10.63 min Scan# 2755  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.3 | 103.4 | 155.0 |
| 129     | 89.6  | 72.0  | 108.0 |
| 131     | 86.7  | 70.2  | 105.2 |





#65

Chlorobenzene

Concen: 48.919 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 516515

Ion Ratio Lower Upper

112 100

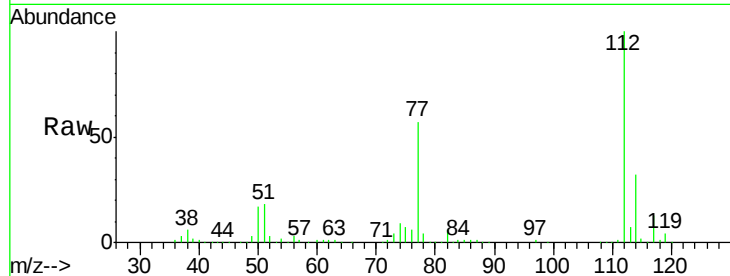
114 32.1 25.4 38.2

Manual Integrations

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

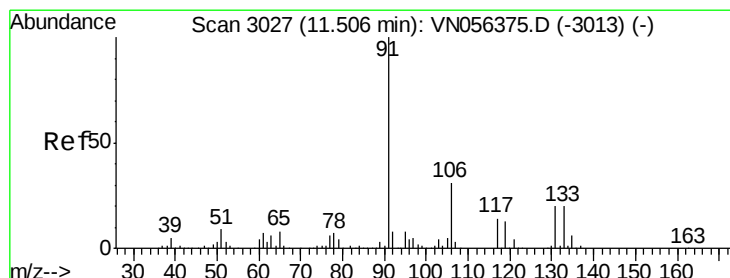
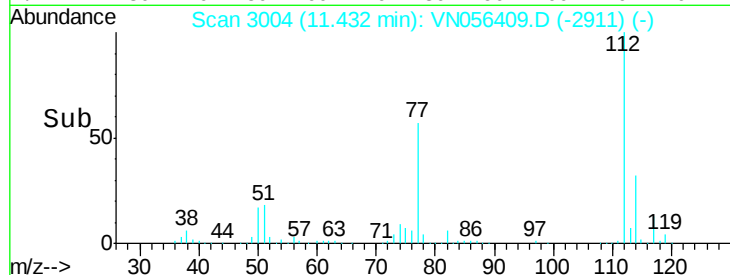
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 52.216 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

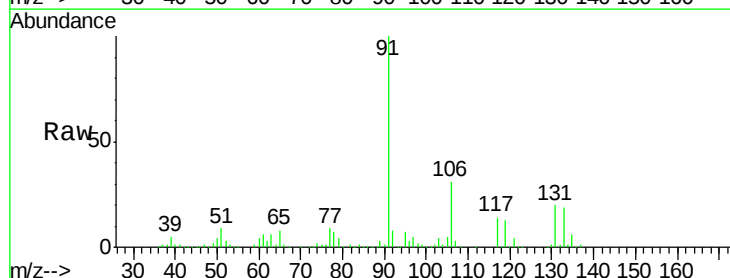
Tgt Ion:131 Resp: 186334

Ion Ratio Lower Upper

131 100

133 95.0 47.4 142.2

119 66.7 32.8 98.4



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

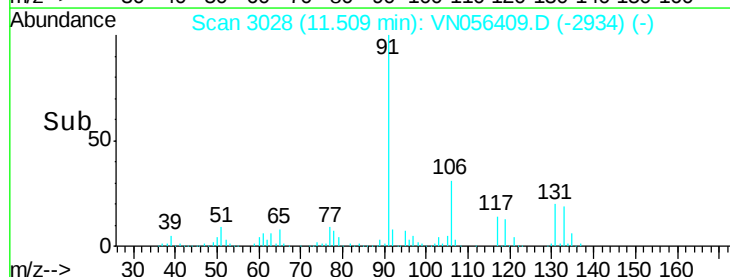
11.51

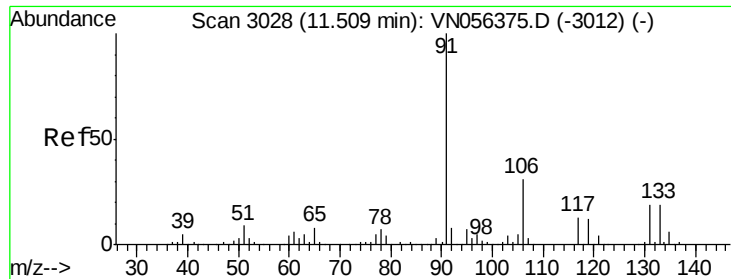
100000

50000

0

Time-->





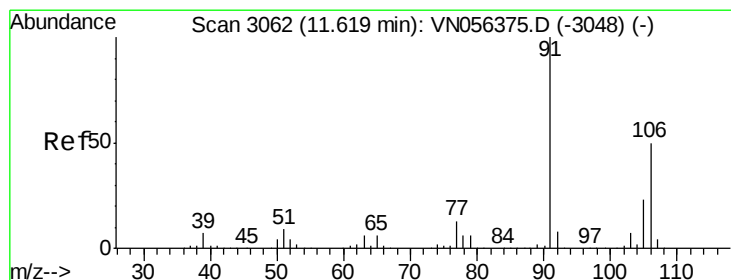
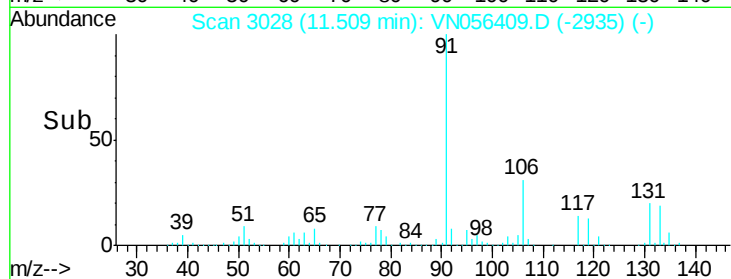
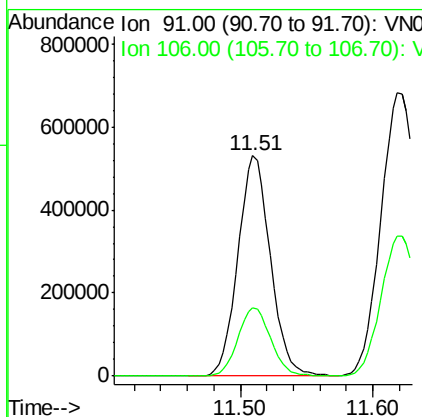
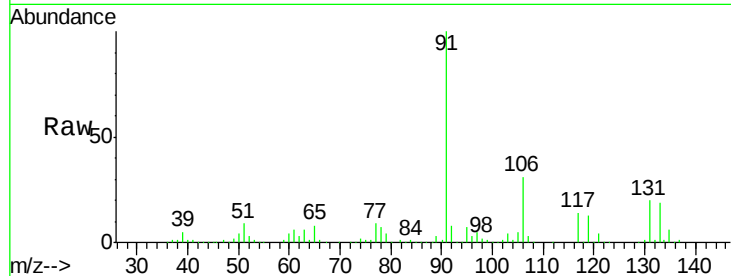
#67  
Ethyl Benzene  
Concen: 48.767 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDCCC050EC

Tot Ion: 91 Resp: 904096  
Ion Ratio Lower Upper  
91 100  
106 31.3 25.1 37.7

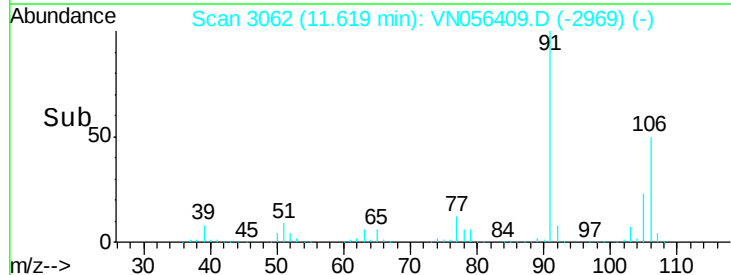
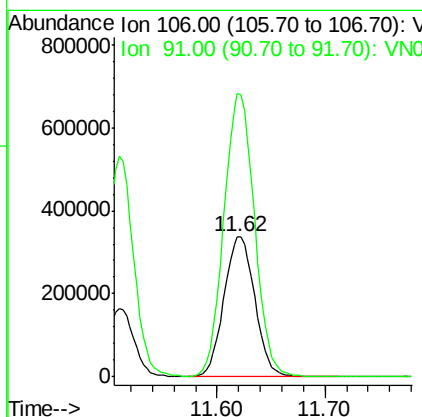
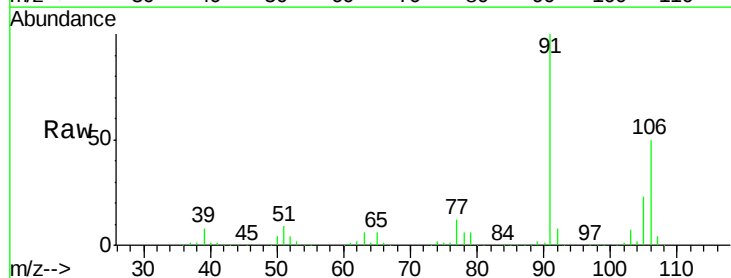
Manual Integrations  
APPROVED

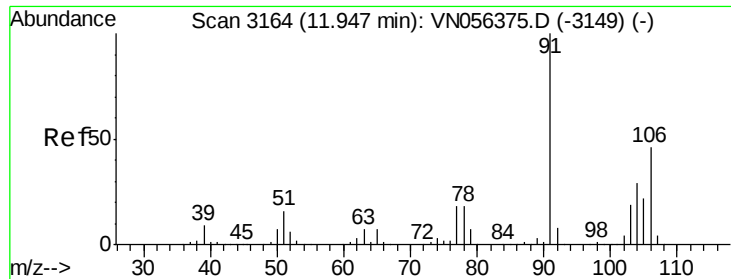
MMDadoda  
6/21/2019 10:50:35 PM



#68  
m/p-Xylenes  
Concen: 99.122 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Tgt Ion: 106 Resp: 673459  
Ion Ratio Lower Upper  
106 100  
91 200.5 160.1 240.1





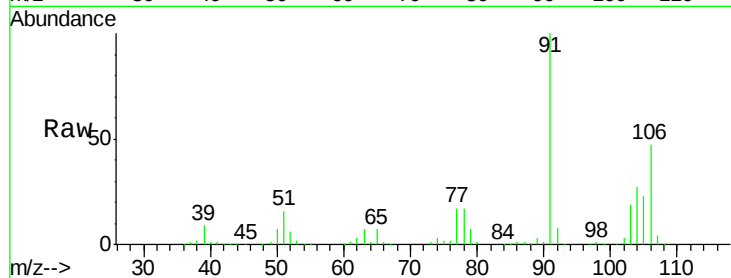
#69  
o-Xylene  
Concen: 49.376 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

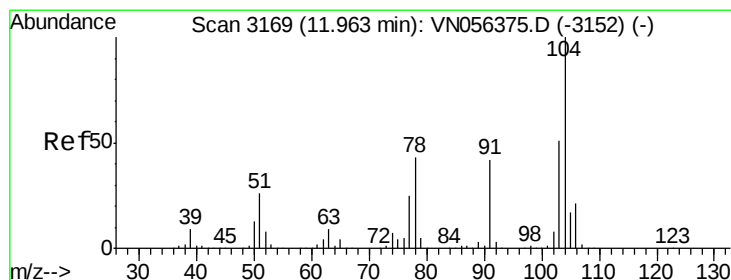
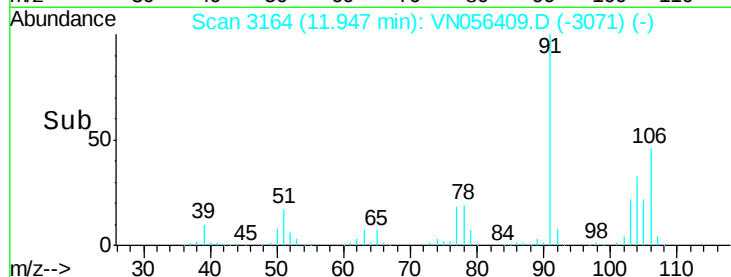
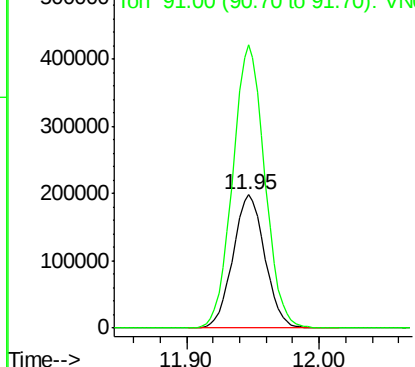
Tot Ion:106 Resp: 331894  
Ion Ratio Lower Upper  
106 100  
91 212.6 107.1 321.3

Manual Integrations  
APPROVED

MMDadoda  
6/21/2019 10:50:35 PM

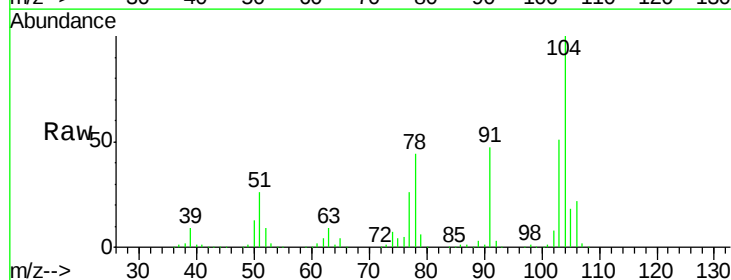


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

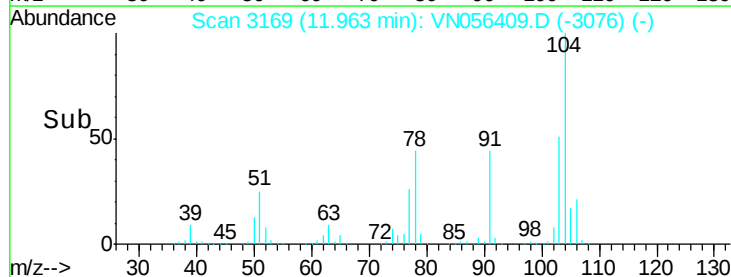
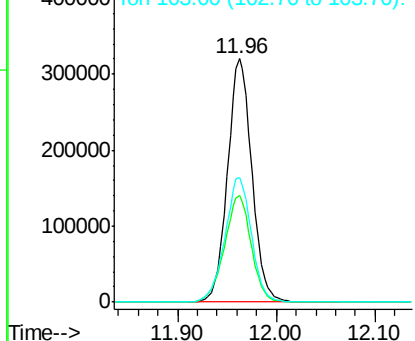


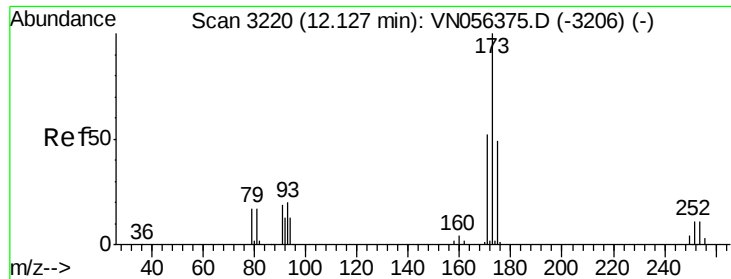
#70  
Styrene  
Concen: 51.500 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Tgt Ion:104 Resp: 553321  
Ion Ratio Lower Upper  
104 100  
78 48.0 38.6 57.8  
103 55.7 43.9 65.9



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VN  
Ion 103.00 (102.70 to 103.70): V





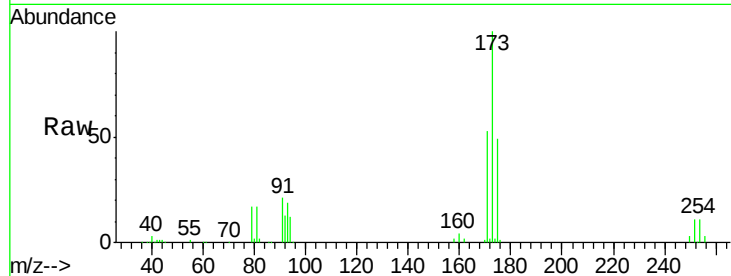
#71  
Bromoform  
Concen: 46.431 ug/l  
RT: 12.13 min Scan# 3220  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

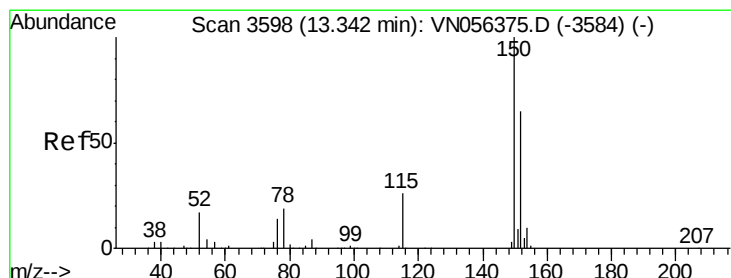
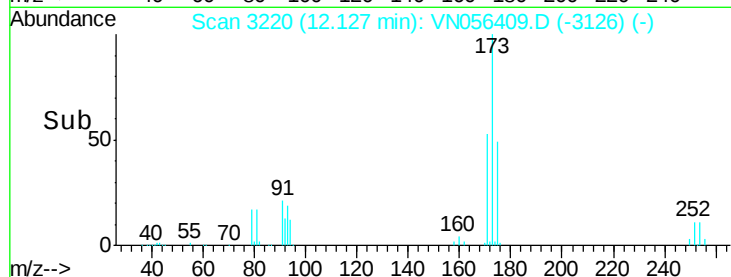
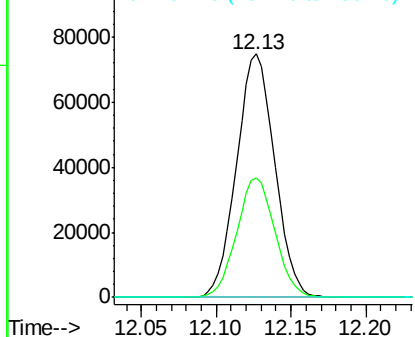
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.0  | 24.4  | 73.4  |
| 254     | 0.0   | 0.0   | 0.0   |

Manual Integrations  
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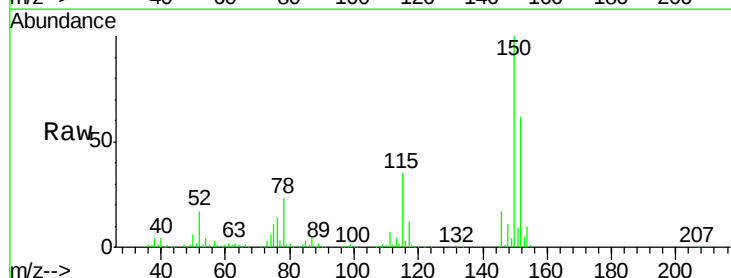


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

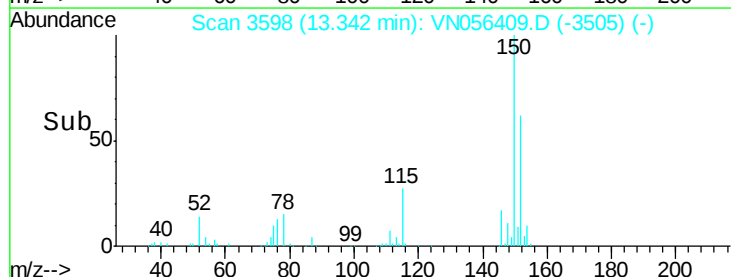
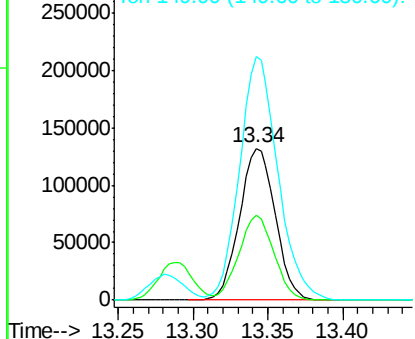


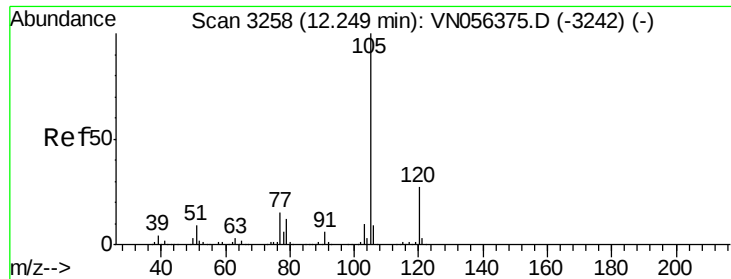
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.9  | 28.1  | 84.4  |
| 150     | 172.3 | 0.0   | 348.4 |



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: 53.332 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 875830

Ion Ratio Lower Upper

105 100

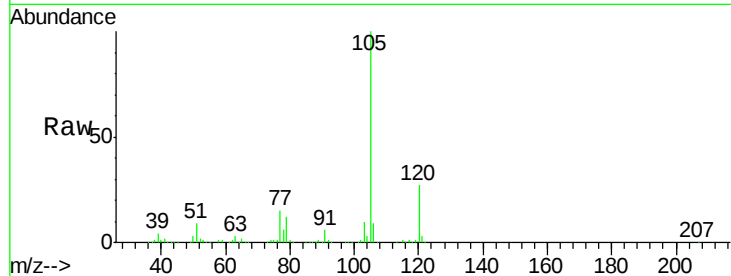
120 26.9 13.4 40.2

Manual Integrations

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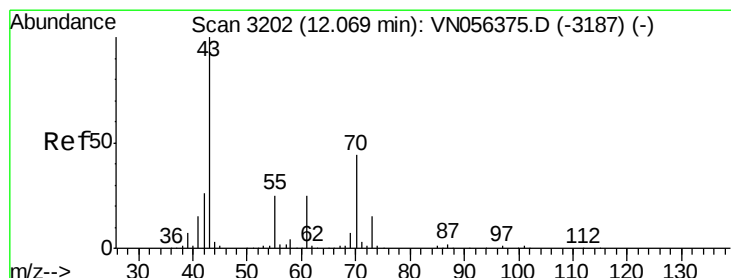
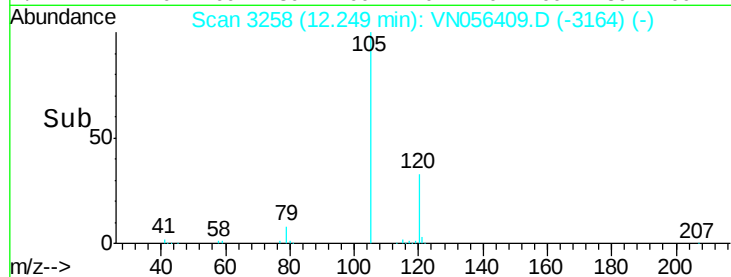
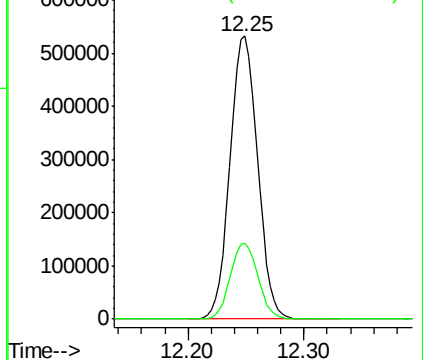
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 47.993 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Tgt Ion: 43 Resp: 335084

Ion Ratio Lower Upper

43 100

70 43.8 34.9 52.3

55 25.4 20.4 30.6

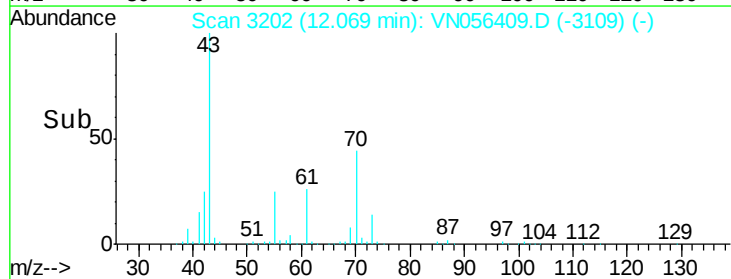
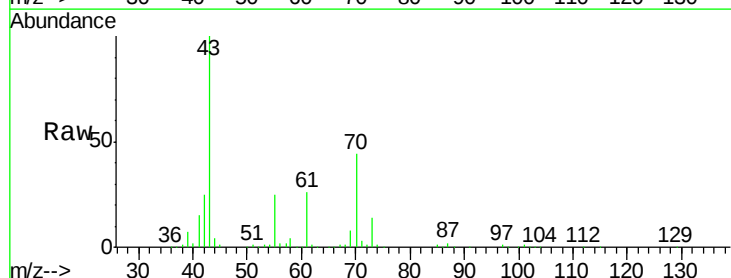
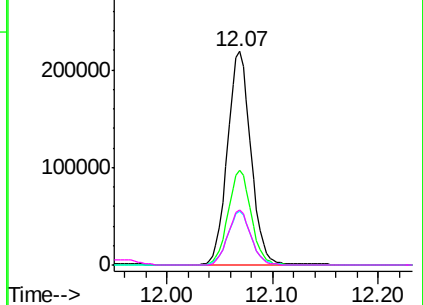
61 25.4 19.8 29.8

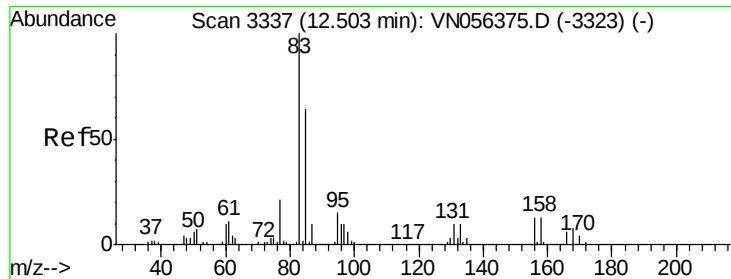
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 52.200 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

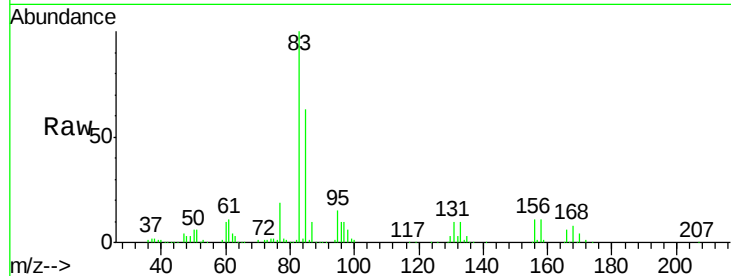
ClientSampleId :

VSTDCCC050EC

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 265593 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.3  | 5.3   | 15.8   |
| 85        | 64.4  | 32.4  | 97.0   |

Manual Integrations  
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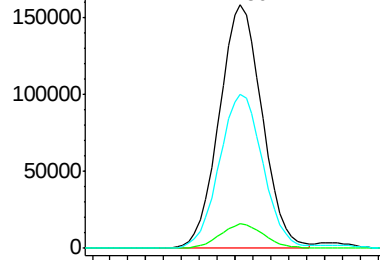
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6/21/2019 10:50:35 PM



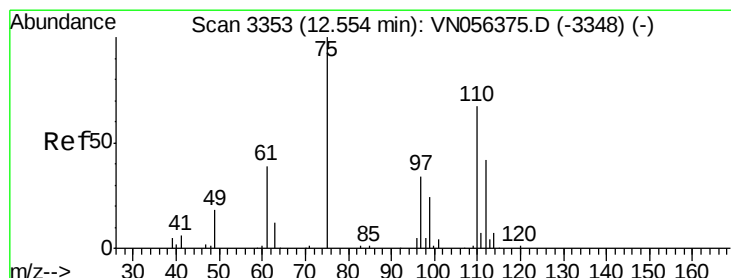
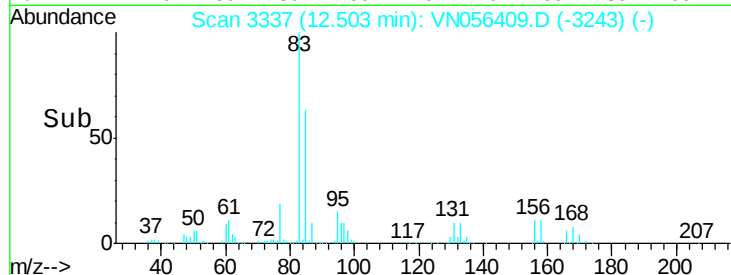
Abundance Ion 82.90 (82.60 to 83.60): VN056409.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN056409.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN056409.D (-3243) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 49.889 ug/l m

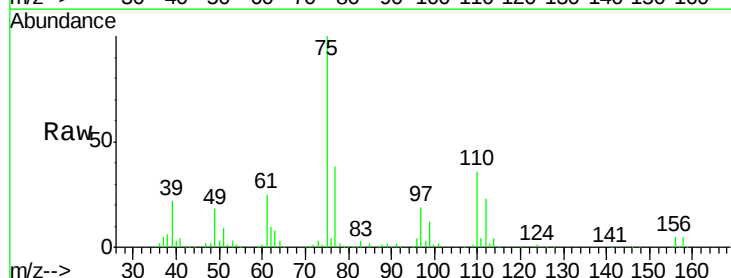
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN056409.D

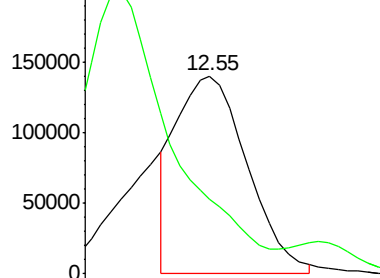
Acq: 20 Jun 2019 17:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 226940 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 0.0   | 0.0   | 0.0    |

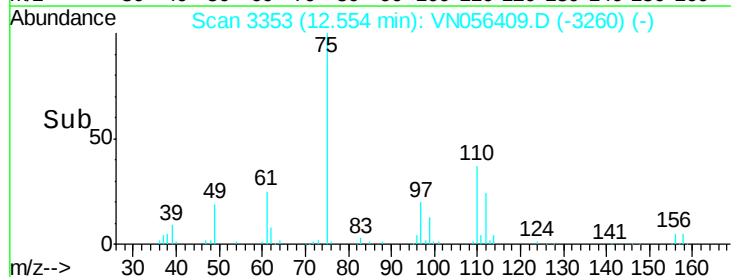


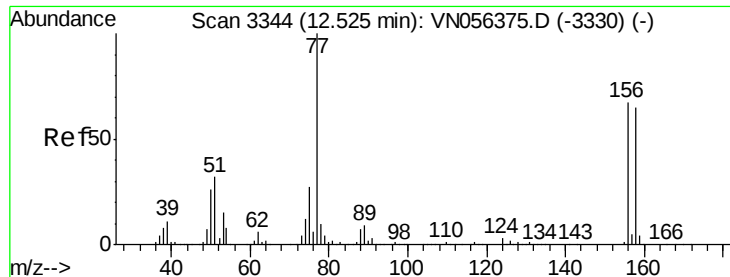
Abundance Ion 74.90 (74.60 to 75.60): VN056409.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN056409.D (-3260) (-)



Time-->





#77

Bromobenzene

Concen: 46.317 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

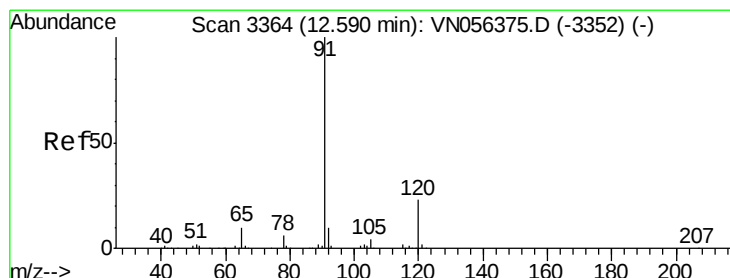
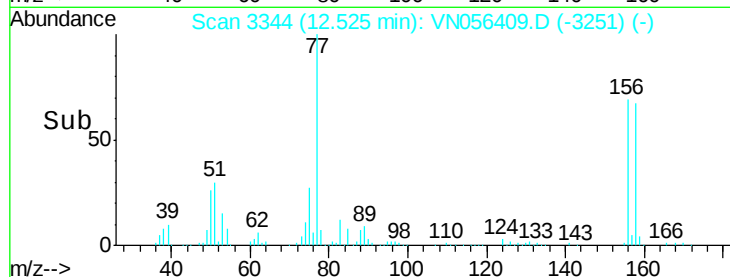
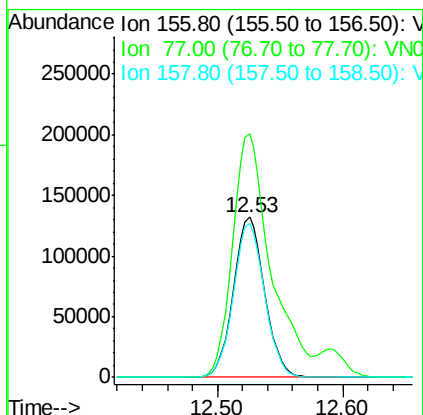
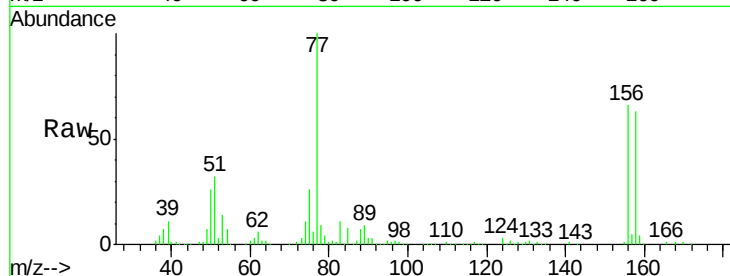
ClientSampled :

VSTDCCC050EC

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 156     | 100   |       |       |       |
| 77      | 187.0 | 92.5  | 277.3 |       |
| 158     | 96.2  | 48.7  | 146.1 |       |

Manual Integrations  
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#78

n-propylbenzene

Concen: 47.494 ug/l

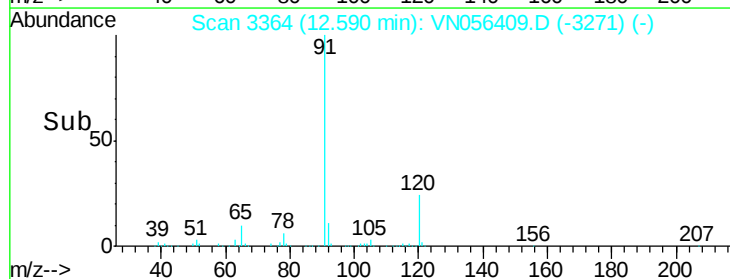
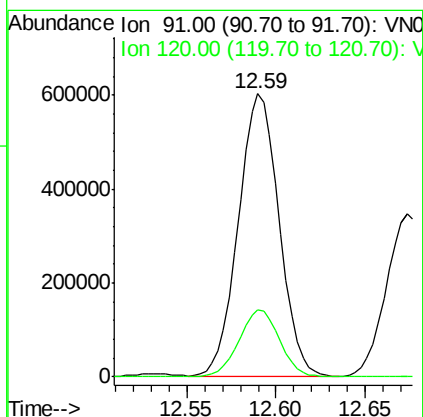
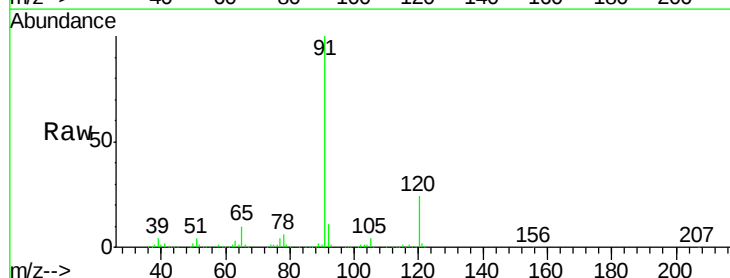
RT: 12.59 min Scan# 3364

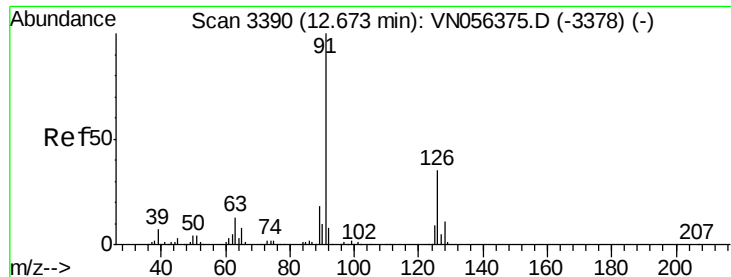
Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 91      | 100  |       |       |       |
| 120     | 23.7 | 11.8  | 35.4  |       |





#79

2-Chlorotoluene

Concen: 52.450 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 576433

Ion Ratio Lower Upper

91 100

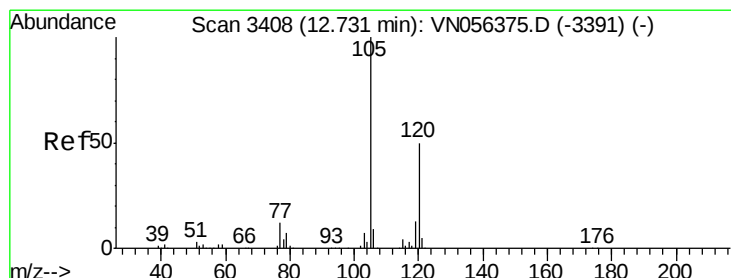
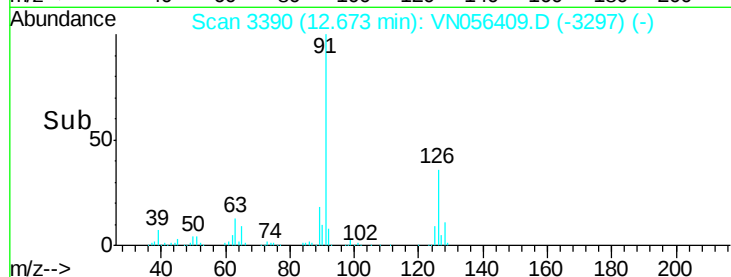
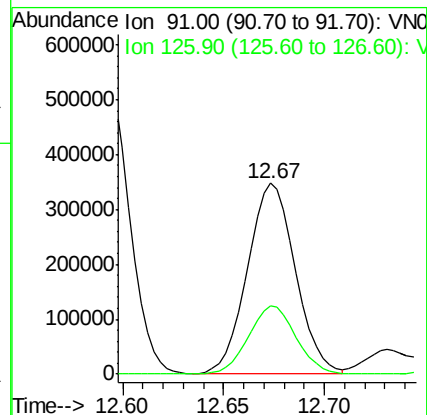
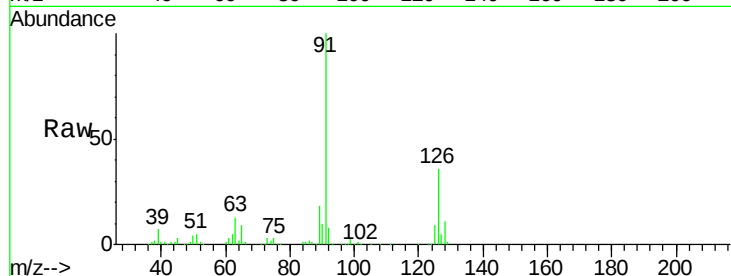
126 35.6 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 52.039 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056409.D

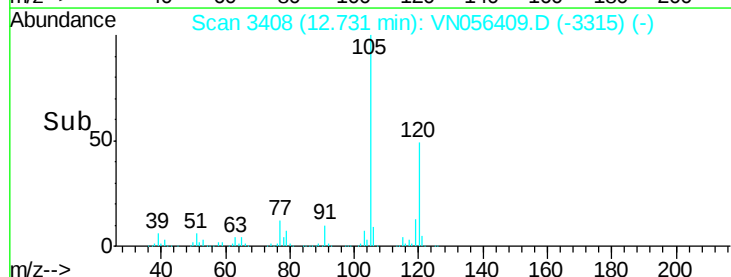
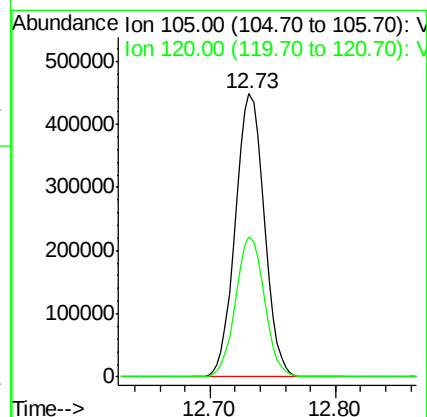
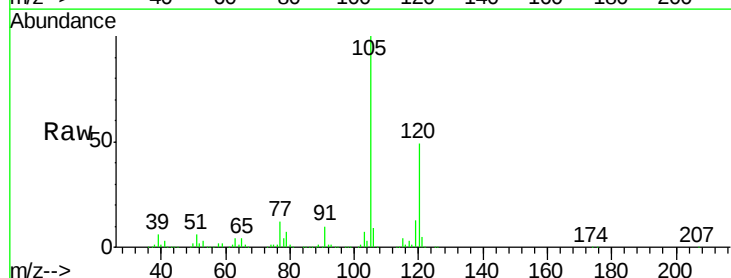
Acq: 20 Jun 2019 17:47

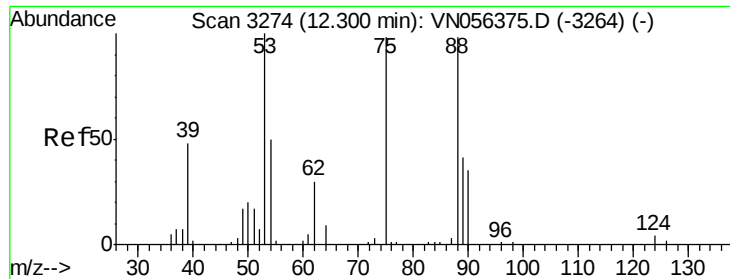
Tgt Ion: 105 Resp: 717202

Ion Ratio Lower Upper

105 100

120 49.5 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 52.196 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 66805

Ion Ratio Lower Upper

75 100

53 100.3 83.9 125.9

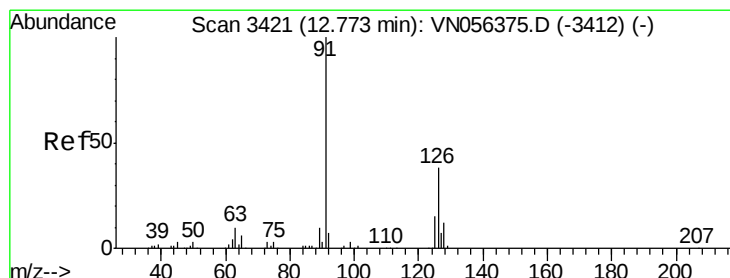
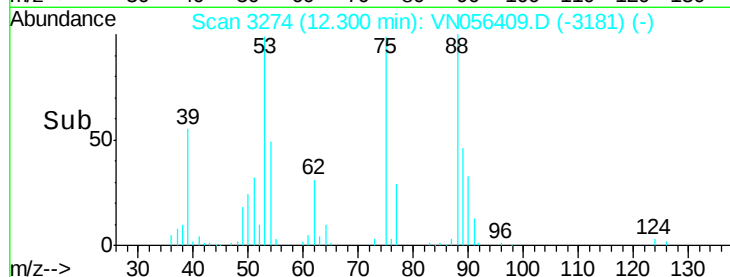
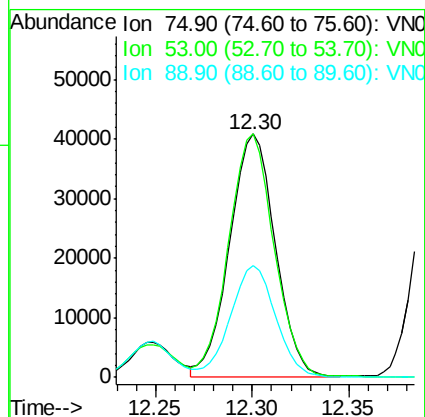
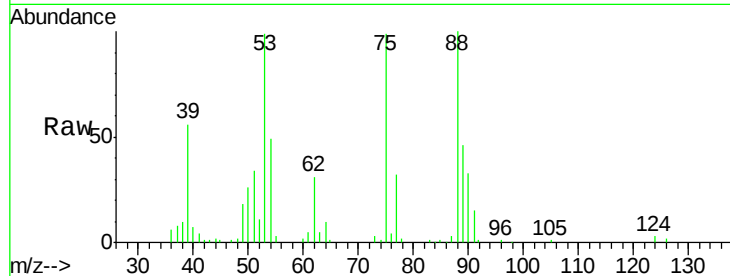
89 45.5 35.0 52.6

Manual Integrations

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#82

4-Chlorotoluene

Concen: 46.607 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN056409.D

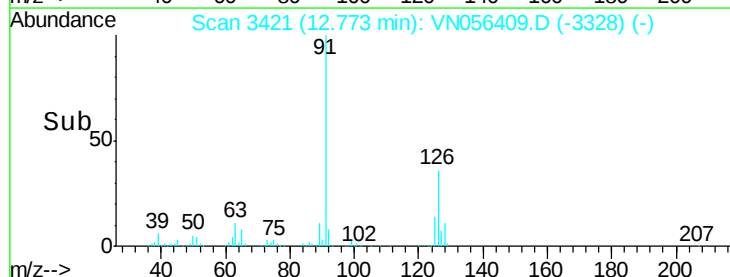
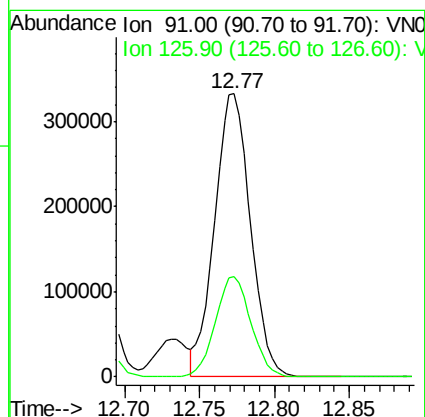
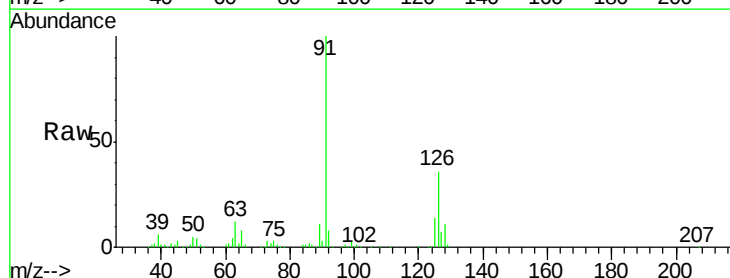
Acq: 20 Jun 2019 17:47

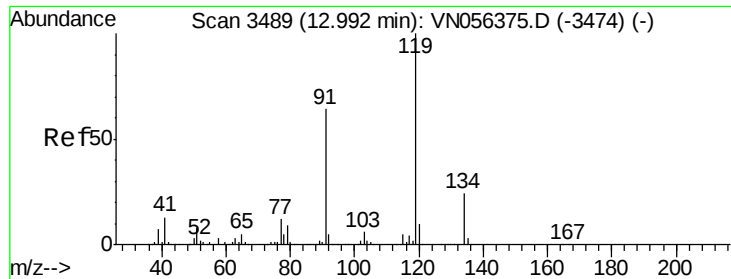
Tgt Ion: 91 Resp: 552848

Ion Ratio Lower Upper

91 100

126 35.4 17.3 52.0





#83

tert-Butylbenzene

Concen: 53.248 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

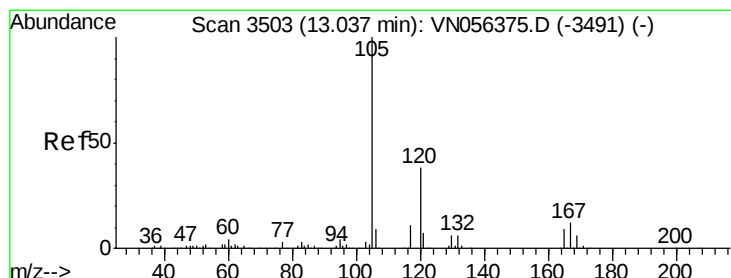
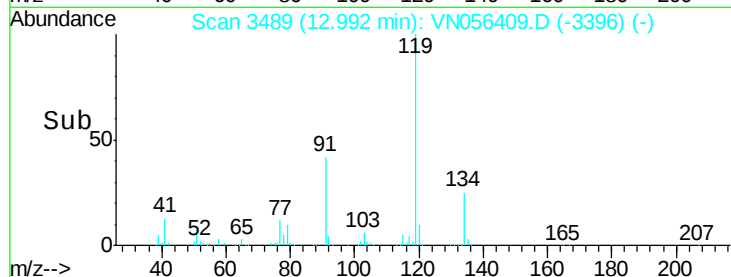
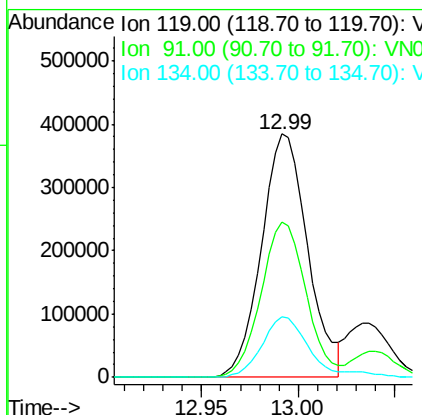
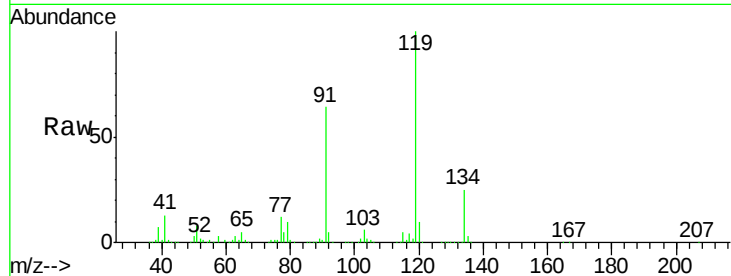
ClientSampleId :

VSTDCCC050EC

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 119   | Resp: | 638447 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 91       | 62.0  | 31.6  | 94.7   |
| 134      | 25.8  | 13.2  | 39.5   |

Manual Integrations  
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6/21/2019 10:50:35 PM



#84

1,2,4-Trimethylbenzene

Concen: 47.581 ug/l

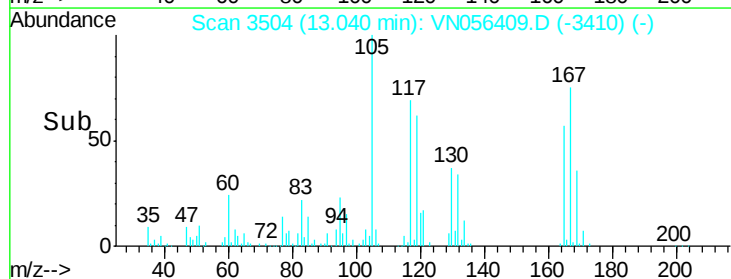
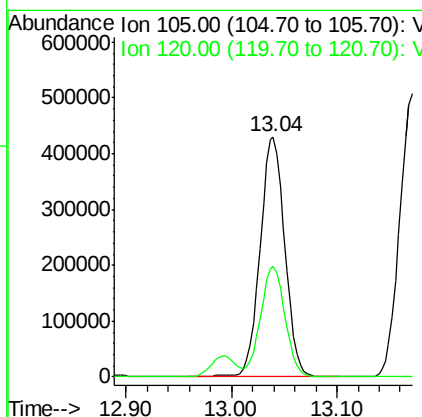
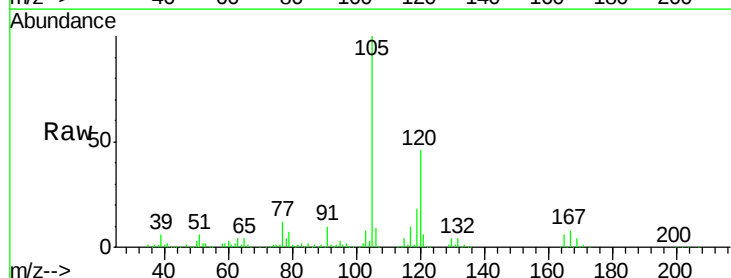
RT: 13.04 min Scan# 3504

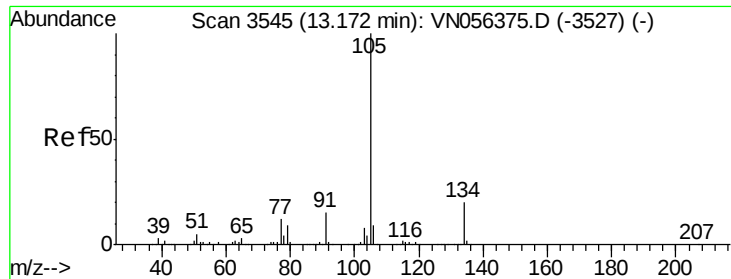
Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 702702 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 45.7  | 22.9  | 68.8   |





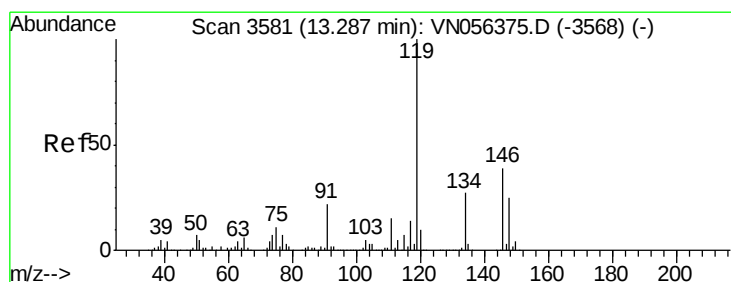
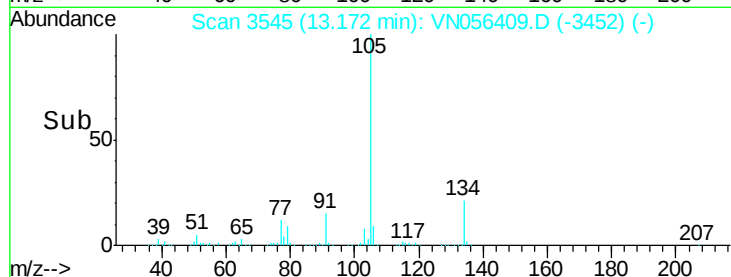
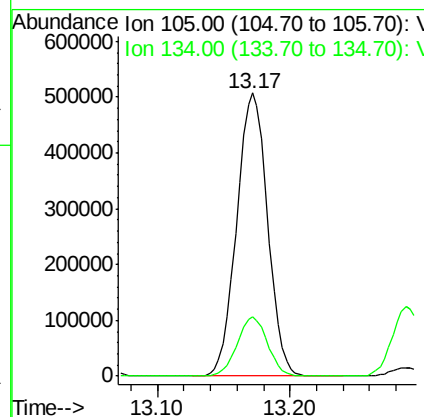
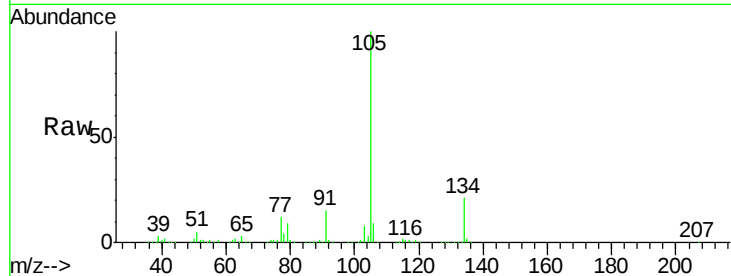
#85  
 sec-Butylbenzene  
 Concen: 46.354 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 20.5  | 10.2  | 30.4  |

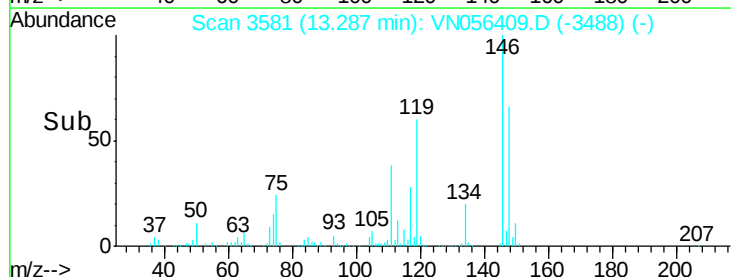
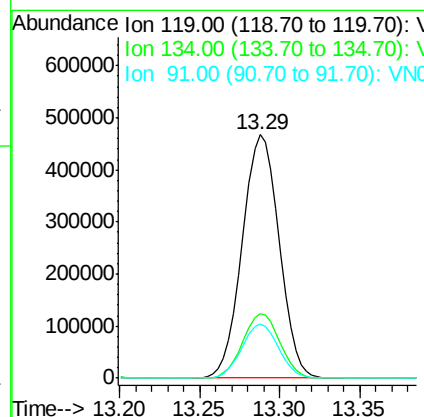
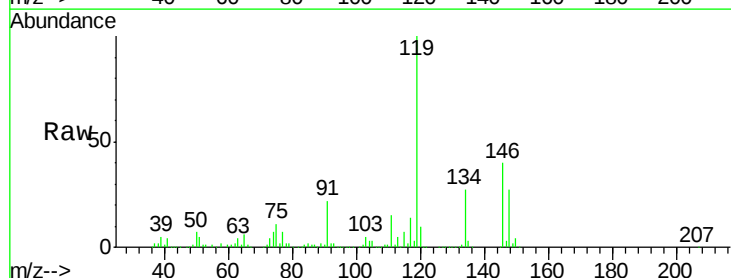
Manual Integrations  
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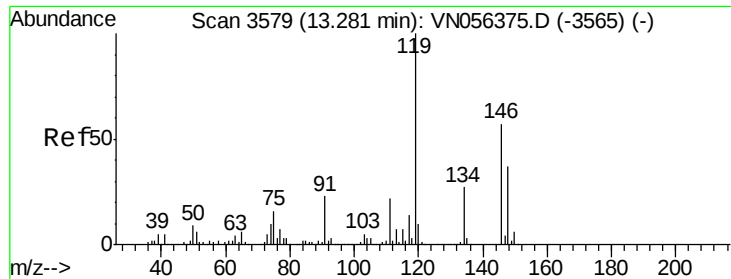
MMDadoda  
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#86  
 p-Isopropyltoluene  
 Concen: 48.340 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.6  | 13.5  | 40.4  |
| 91      | 22.1  | 11.2  | 33.5  |





#87

1,3-Dichlorobenzene

Concen: 48.617 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

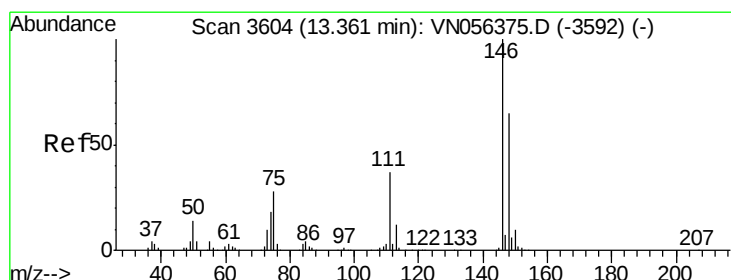
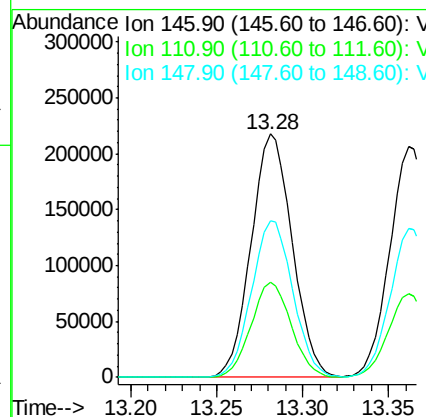
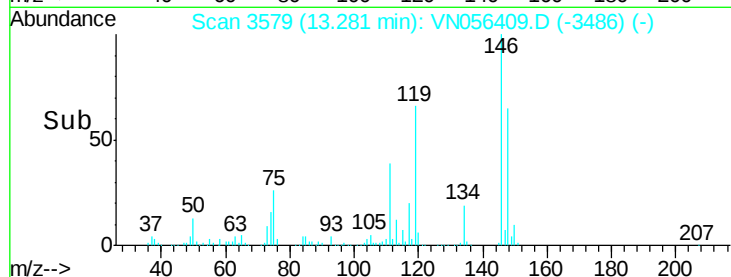
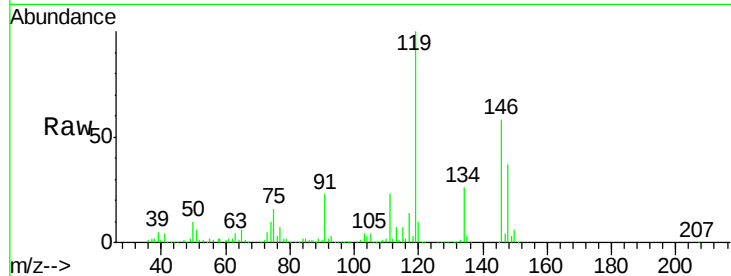
ClientSampleId :

VSTDCCC050EC

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 361415 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 38.1  | 18.9  | 56.9   |
| 148       | 64.5  | 32.1  | 96.5   |

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#88

1,4-Dichlorobenzene

Concen: 47.974 ug/l

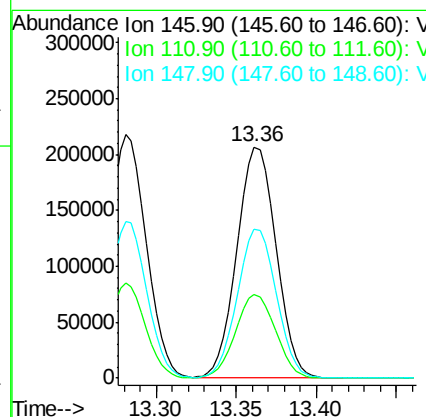
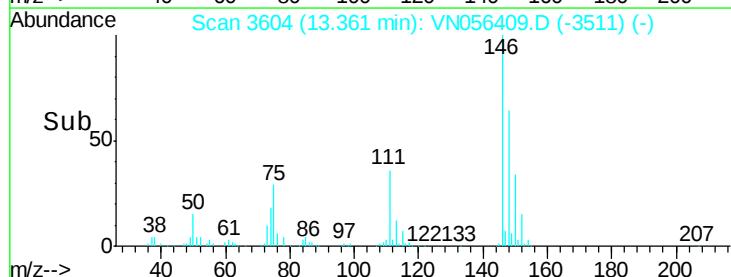
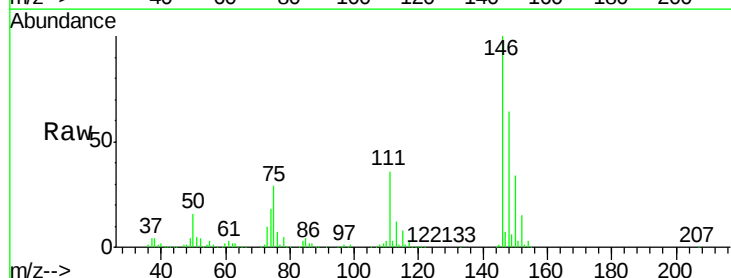
RT: 13.36 min Scan# 3604

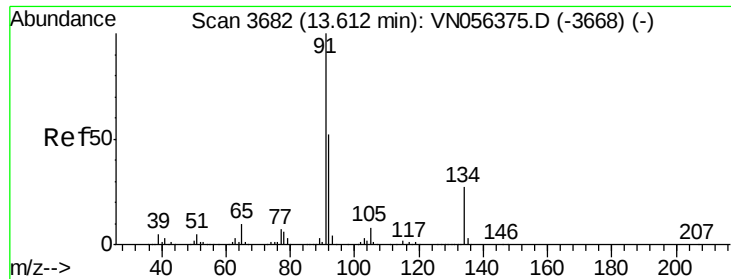
Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 345388 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 36.8  | 18.4  | 55.4   |
| 148       | 64.5  | 32.4  | 97.0   |





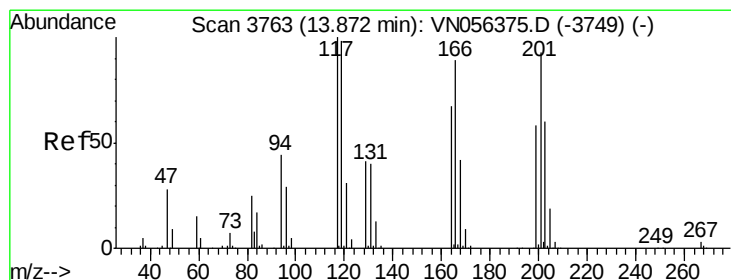
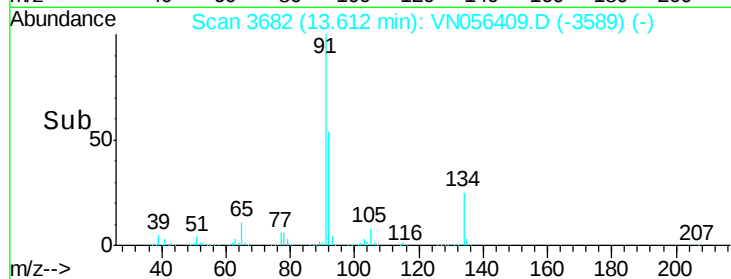
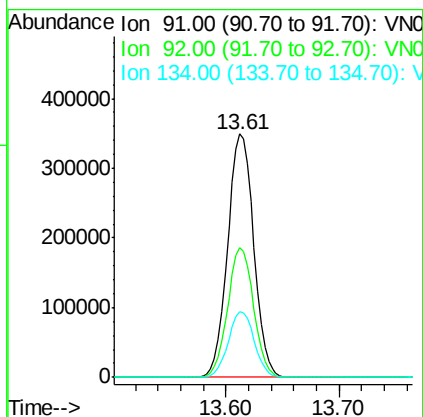
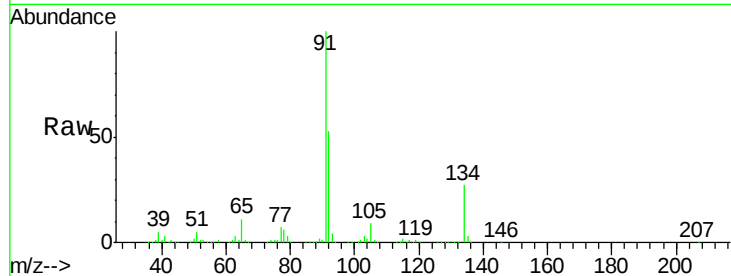
#89  
n-Butylbenzene  
Concen: 48.719 ug/l  
RT: 13.61 min Scan# 3682  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.8  | 26.2  | 78.5  |
| 134     | 27.0  | 13.4  | 40.2  |

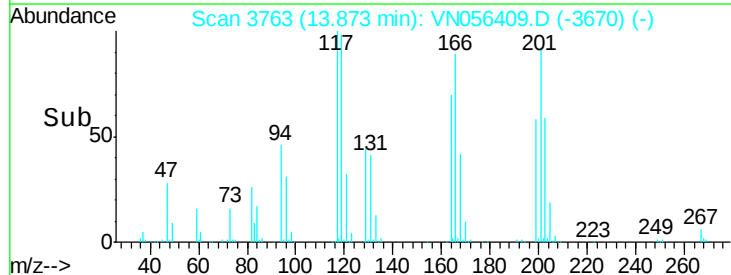
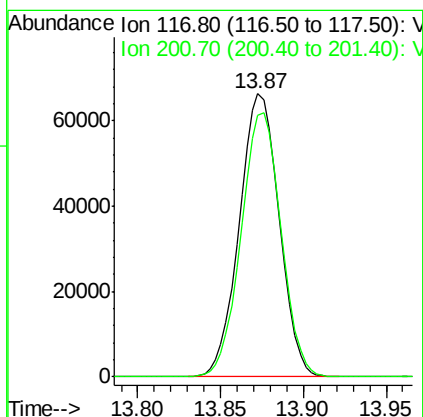
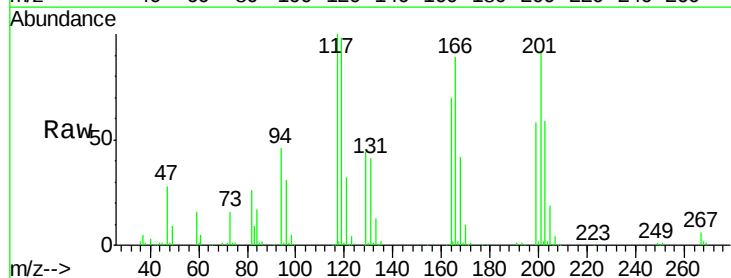
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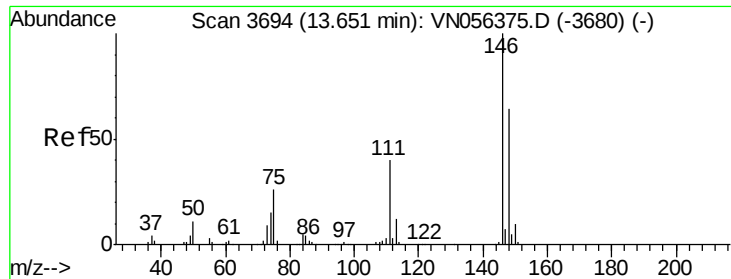
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#90  
Hexachloroethane  
Concen: 47.015 ug/l  
RT: 13.87 min Scan# 3763  
Delta R.T. 0.00 min  
Lab File: VN056409.D  
Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 93.4  | 45.9  | 137.6 |





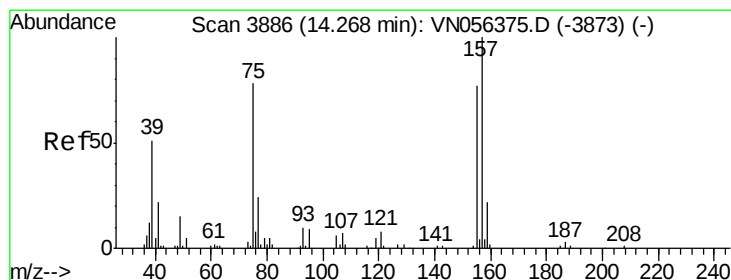
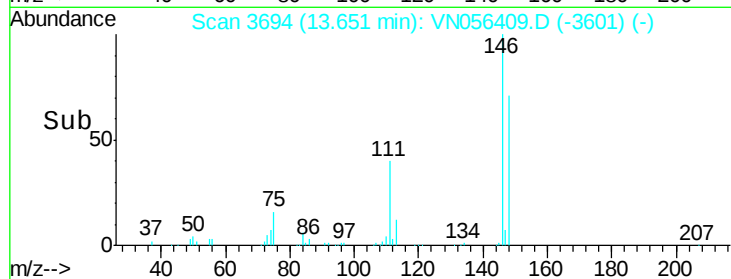
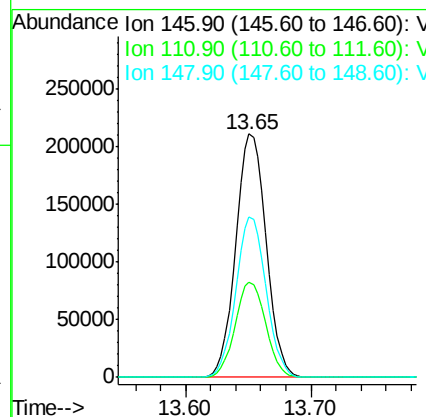
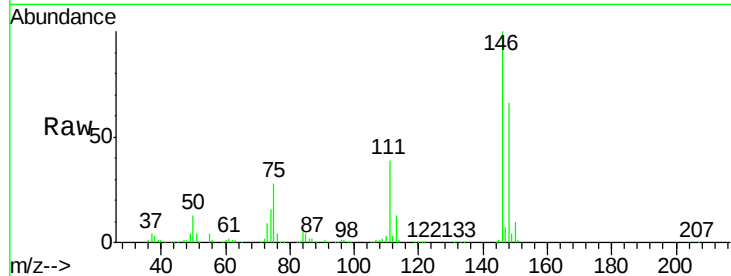
#91  
 1,2-Dichlorobenzene  
 Concen: 48.125 ug/l  
 RT: 13.65 min Scan# 3694  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.4  | 19.3  | 57.9  |
| 148     | 65.4  | 32.0  | 96.0  |

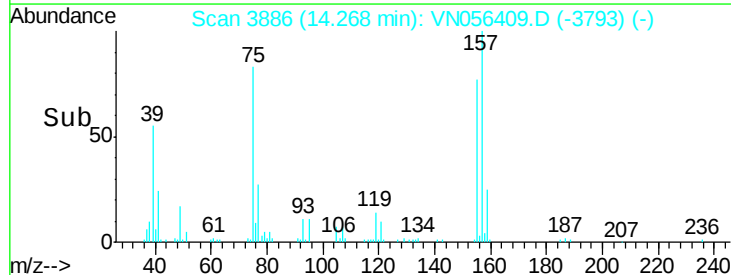
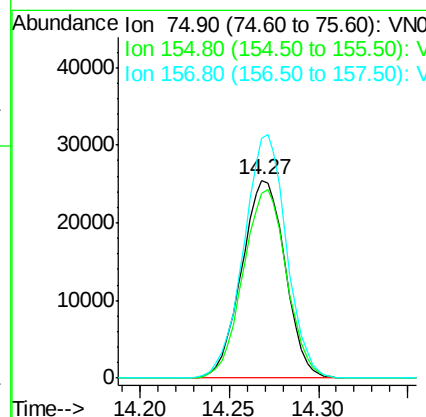
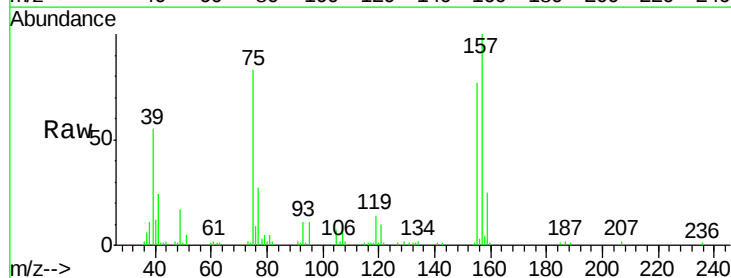
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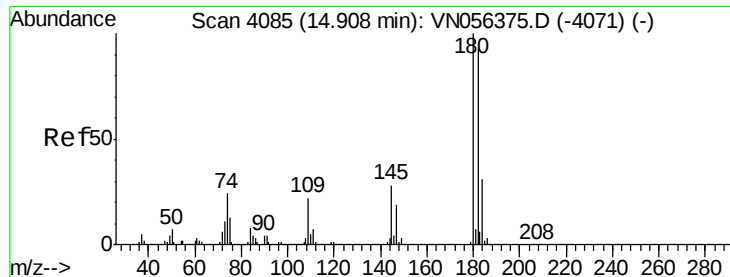
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 53.246 ug/l  
 RT: 14.27 min Scan# 3886  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 95.2  | 48.9  | 146.8 |
| 157     | 121.0 | 62.9  | 188.8 |





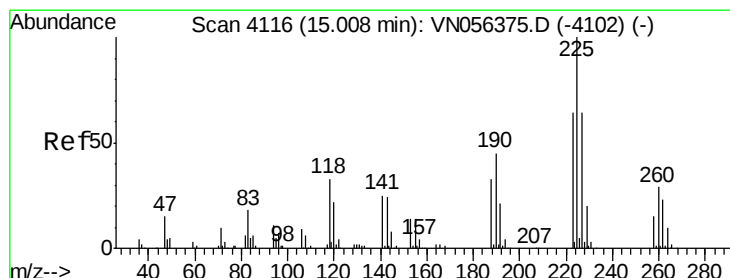
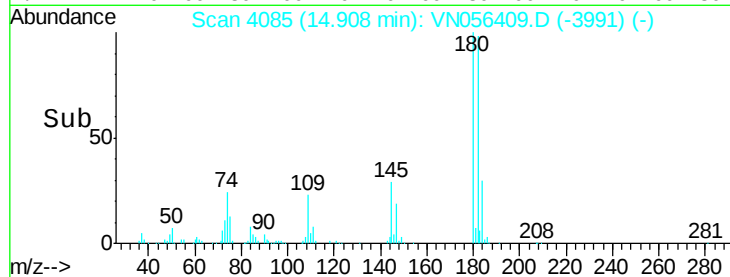
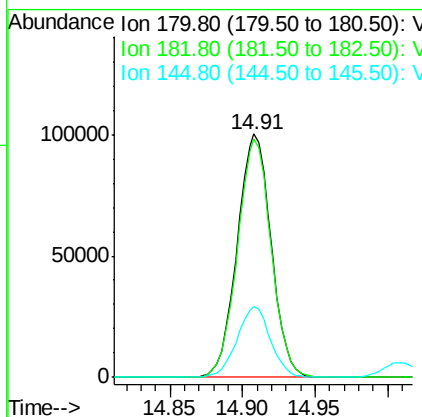
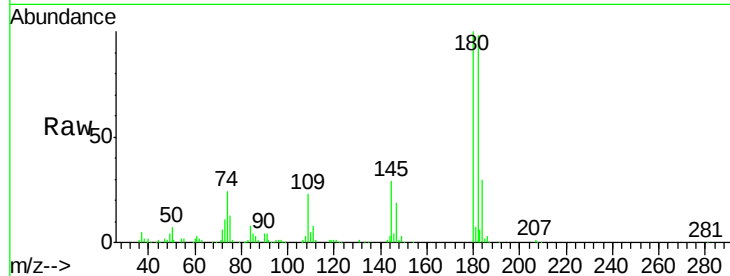
#93  
 1,2,4-Trichlorobenzene  
 Concen: 43.178 ug/l  
 RT: 14.91 min Scan# 4085  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 162528 |       |       |
| 182     | 97.2  | 46.9   | 140.6 |       |
| 145     | 28.7  | 14.4   | 43.0  |       |

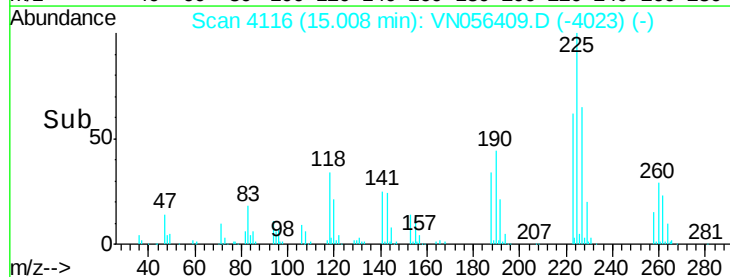
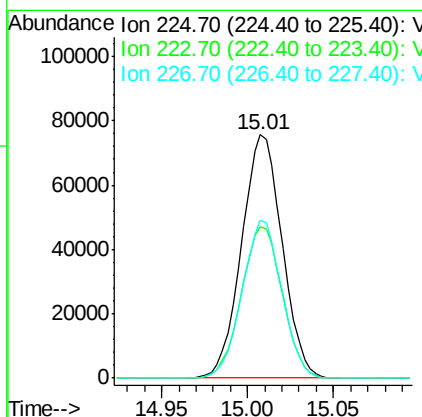
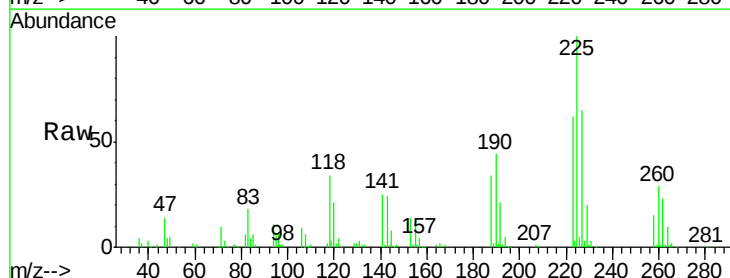
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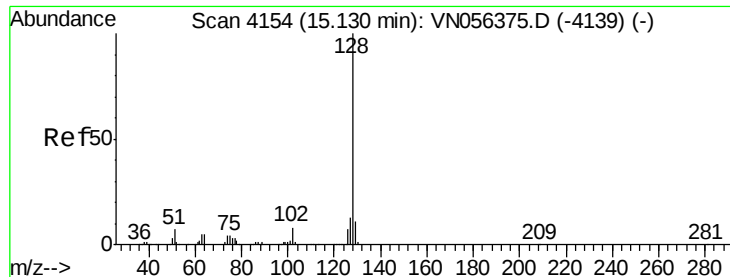
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#94  
 Hexachlorobutadiene  
 Concen: 49.444 ug/l  
 RT: 15.01 min Scan# 4116  
 Delta R.T. 0.00 min  
 Lab File: VN056409.D  
 Acq: 20 Jun 2019 17:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 123636 |       |       |
| 223     | 63.0  | 31.4   | 94.3  |       |
| 227     | 63.3  | 32.1   | 96.3  |       |





#95

Naphthalene

Concen: 45.230 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

Instrument :

MSVOA\_N

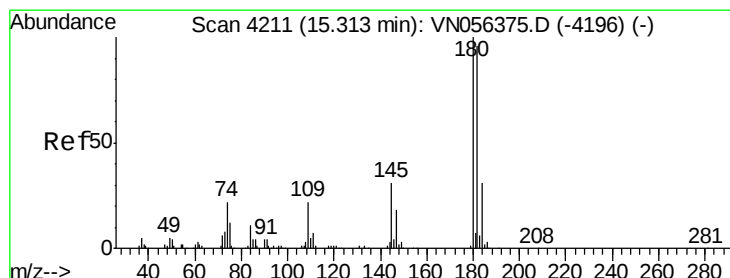
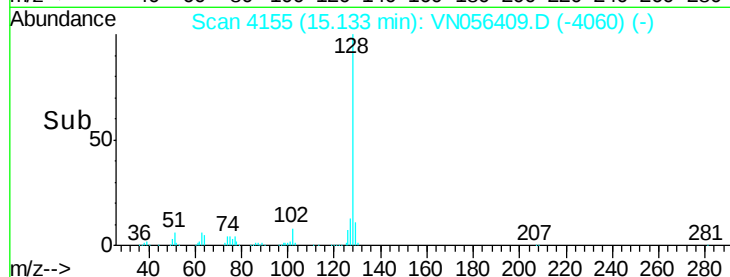
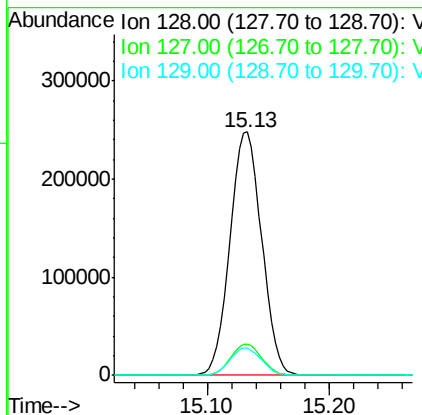
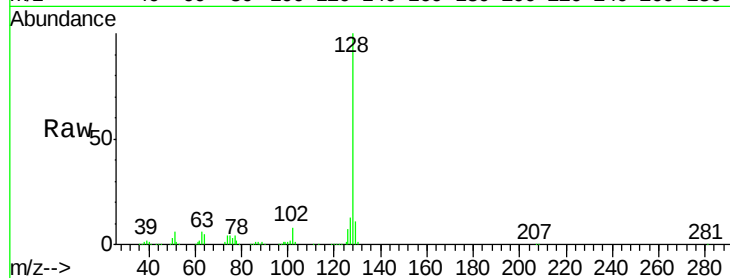
ClientSampleId :

VSTDCCC050EC

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 448412 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 12.8  | 10.2  | 15.2   |
| 129       | 11.2  | 8.6   | 12.8   |

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#96

1,2,3-Trichlorobenzene

Concen: 45.134 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056409.D

Acq: 20 Jun 2019 17:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 177716 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.6  | 48.3  | 144.8  |
| 145       | 29.5  | 15.4  | 46.1   |

