

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090419\  
 Data File : VU034213.D  
 Acq On : 03 Sep 2019 09:27  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/4/2019 4:56:49 PM

Quant Time: Sep 04 04:40:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 29 04:11:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 426414   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.86  | 114  | 646240   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 613591   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 333629   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.29   | 65  | 259586   | 47.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.02%  |      |
| 35) Dibromofluoromethane  | 4.86   | 113 | 226150   | 50.45 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.90% |      |
| 50) Toluene-d8            | 7.55   | 98  | 868767   | 51.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.52% |      |
| 62) 4-Bromofluorobenzene  | 10.29  | 95  | 323499   | 49.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.10%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 198238  | 46.225  | ug/l | 98     |
| 3) Chloromethane              | 1.32 | 50  | 241873  | 41.892  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 246394  | 43.168  | ug/l | 98     |
| 5) Bromomethane               | 1.61 | 94  | 133010  | 48.203  | ug/l | 98     |
| 6) Chloroethane               | 1.69 | 64  | 151064  | 43.291  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.87 | 101 | 305455  | 46.186  | ug/l | 98     |
| 8) Diethyl Ether              | 2.09 | 74  | 132269  | 46.751  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.27 | 101 | 200582  | 47.874  | ug/l | 98     |
| 10) Methyl Iodide             | 2.40 | 142 | 193562  | 32.568  | ug/l | 100    |
| 11) Tert butyl alcohol        | 2.81 | 59  | 221159  | 175.525 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.27 | 96  | 195080  | 45.699  | ug/l | 99     |
| 13) Acrolein                  | 2.18 | 56  | 75186   | 141.849 | ug/l | 100    |
| 14) Allyl chloride            | 2.58 | 41  | 358655m | 44.686  | ug/l |        |
| 15) Acrylonitrile             | 2.92 | 53  | 607112  | 209.981 | ug/l | 100    |
| 16) Acetone                   | 2.31 | 43  | 655570  | 235.150 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.46 | 76  | 541148  | 40.054  | ug/l | 99     |
| 18) Methyl Acetate            | 2.60 | 43  | 290756  | 40.358  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 2.98 | 73  | 664796  | 47.530  | ug/l | 100    |
| 20) Methylene Chloride        | 2.68 | 84  | 237070  | 44.919  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 2.96 | 96  | 211390  | 45.628  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.55 | 45  | 716774  | 48.736  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.50 | 43  | 2890147 | 228.760 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.42 | 63  | 407357  | 46.914  | ug/l | 100    |
| 25) 2-Butanone                | 4.23 | 43  | 857331  | 221.037 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.20 | 77  | 328389  | 46.479  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.20 | 96  | 239715  | 46.098  | ug/l | 99     |
| 28) Bromochloromethane        | 4.52 | 49  | 201769  | 47.165  | ug/l | 100    |
| 29) Tetrahydrofuran           | 4.61 | 42  | 499489  | 208.818 | ug/l | 99     |
| 30) Chloroform                | 4.65 | 83  | 398130  | 45.956  | ug/l | 99     |
| 31) Cyclohexane               | 4.97 | 56  | 349304  | 42.812  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 4.89 | 97  | 331234  | 46.684  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.11 | 75  | 291294  | 47.655  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.36 | 43  | 292781  | 42.773  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.11 | 117 | 284756  | 48.262  | ug/l | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090419\  
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 Acq On : 03 Sep 2019 09:27  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 9/4/2019 4:56:49 PM

Quant Time: Sep 04 04:40:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 29 04:11:12 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.40  | 83   | 339263   | 47.090  | ug/l   | 97       |
| 40) Benzene                    | 5.37  | 78   | 895636   | 48.429  | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.52  | 41   | 161608   | 46.036  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 5.38  | 62   | 302881   | 47.427  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 5.53  | 43   | 462123   | 44.377  | ug/l   | 100      |
| 44) Trichloroethene            | 6.16  | 130  | 239298   | 49.274  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.41  | 63   | 251544   | 49.410  | ug/l   | 99       |
| 46) Dibromomethane             | 6.54  | 93   | 156617   | 47.751  | ug/l   | 99       |
| 47) Bromodichloromethane       | 6.74  | 83   | 320454   | 49.938  | ug/l   | 99       |
| 48) Methyl methacrylate        | 6.60  | 41   | 222649   | 44.307  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.59  | 88   | 91307    | 725.190 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 7.44  | 43   | 1539582  | 214.076 | ug/l   | 99       |
| 52) Toluene                    | 7.62  | 92   | 566662   | 49.739  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 7.86  | 75   | 337222   | 47.361  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.25  | 75   | 380862   | 48.960  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 8.04  | 97   | 234219   | 48.603  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 8.00  | 69   | 335405   | 42.116  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.22  | 76   | 387348   | 47.339  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 7.11  | 63   | 553327   | 207.549 | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.34  | 43   | 1195680  | 220.234 | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.46  | 129  | 252741   | 48.859  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 8.57  | 107  | 232162   | 45.734  | ug/l   | 99       |
| 64) Tetrachloroethene          | 8.21  | 164  | 214089   | 51.955  | ug/l   | 98       |
| 65) Chlorobenzene              | 9.10  | 112  | 615491   | 48.744  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.19  | 131  | 223457   | 48.804  | ug/l   | 99       |
| 67) Ethyl Benzene              | 9.23  | 91   | 1066535  | 49.827  | ug/l   | 100      |
| 68) m/p-Xylenes                | 9.36  | 106  | 836456   | 102.773 | ug/l   | 99       |
| 69) o-Xylene                   | 9.76  | 106  | 393895   | 50.445  | ug/l   | 99       |
| 70) Styrene                    | 9.77  | 104  | 703511   | 52.546  | ug/l   | 100      |
| 71) Bromoform                  | 9.94  | 173  | 186437   | 46.865  | ug/l # | 99       |
| 73) Isopropylbenzene           | 10.15 | 105  | 1071331  | 47.807  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.00 | 43   | 419921   | 44.553  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 365598   | 42.624  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 10.48 | 75   | 314945m  | 41.884  | ug/l   |          |
| 77) Bromobenzene               | 10.43 | 156  | 279607   | 46.383  | ug/l   | 98       |
| 78) n-propylbenzene            | 10.57 | 91   | 1276428  | 48.909  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 10.64 | 91   | 743102   | 47.471  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 10.75 | 105  | 937275   | 49.347  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.49 | 75   | 99132m   | 44.392  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.75 | 91   | 872002   | 48.436  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.08 | 119  | 882765   | 47.212  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.13 | 105  | 941112   | 49.899  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.31 | 105  | 1083105  | 48.331  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.46 | 119  | 999858   | 49.331  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.40 | 146  | 515323   | 48.286  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 11.49 | 146  | 518493   | 48.039  | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.87 | 91   | 909924   | 50.920  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.13 | 117  | 148980   | 42.514  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 11.86 | 146  | 495866   | 48.504  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.64 | 75   | 70232    | 41.101  | ug/l   | 99       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090419\  
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Acq On : 03 Sep 2019 09:27  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

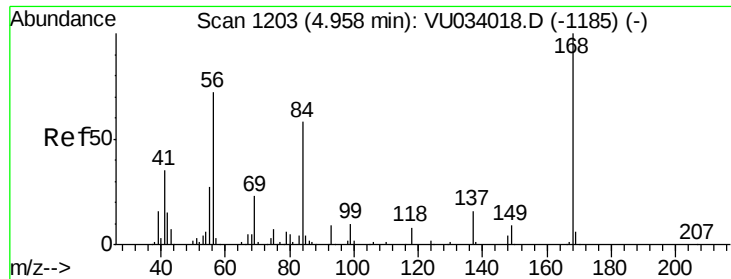
MMDadoda  
9/4/2019 4:56:49 PM

Quant Time: Sep 04 04:40:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 29 04:11:12 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.49 | 180  | 343300   | 47.273 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.67 | 225  | 176771   | 44.201 | ug/l  | 99       |
| 95) Naphthalene            | 13.72 | 128  | 861086   | 41.659 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.97 | 180  | 327530   | 50.013 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 426414

Ion Ratio Lower Upper

168 100

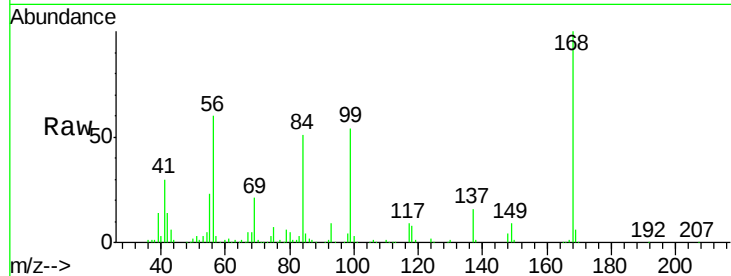
99 53.3 42.3 63.5

Manual Integrations

APPROVED

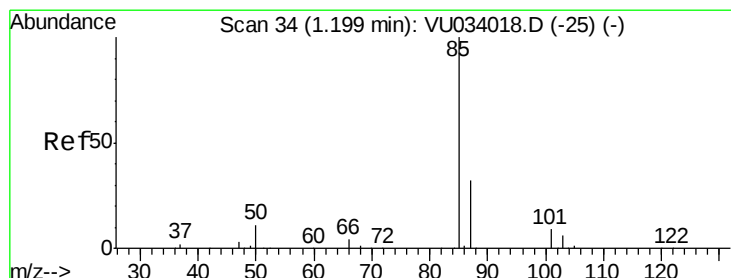
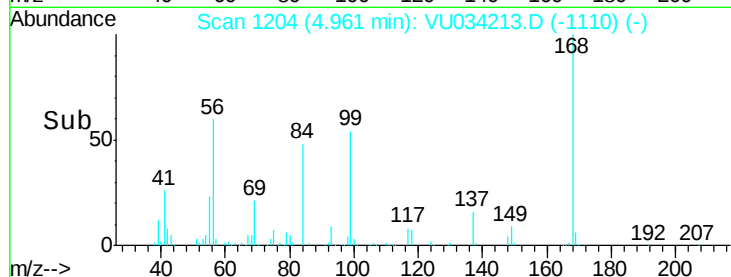
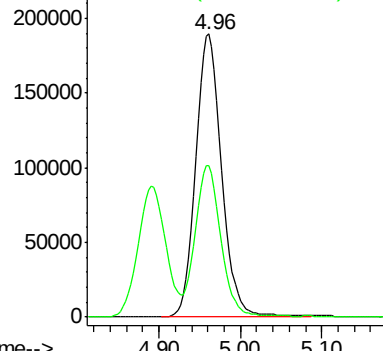
MMDadoda

9/4/2019 4:56:49 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#2

Dichlorodifluoromethane

Concen: 46.225 ug/l

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034213.D

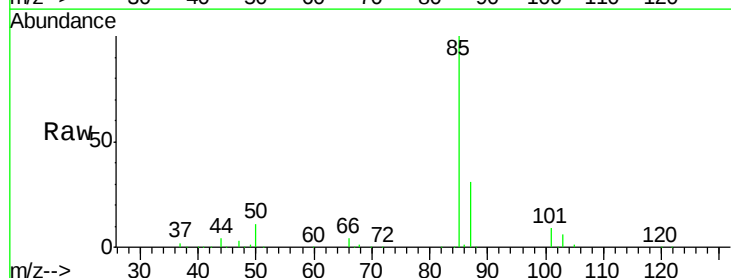
Acq: 03 Sep 2019 09:27

Tgt Ion: 85 Resp: 198238

Ion Ratio Lower Upper

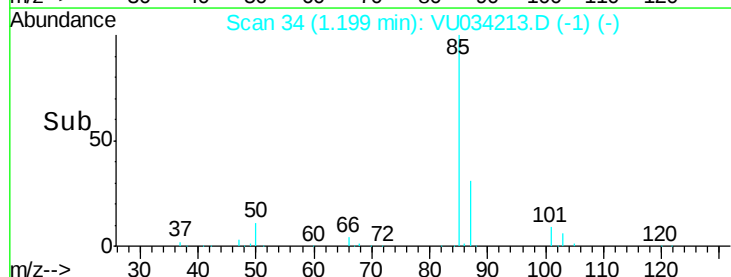
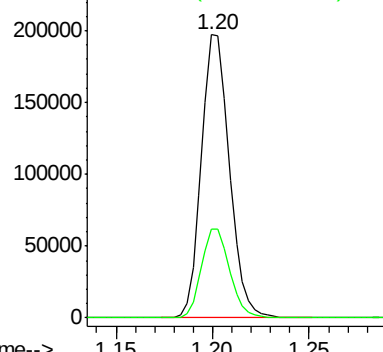
85 100

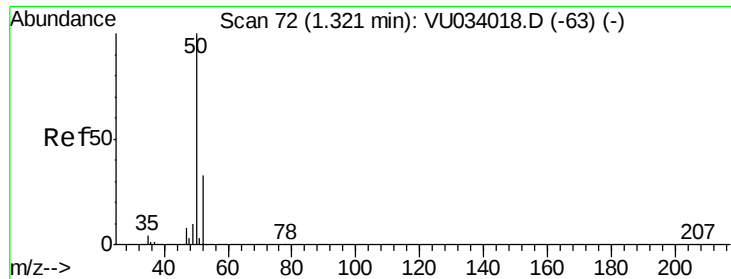
87 31.2 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU0

Ion 86.90 (86.60 to 87.60): VU0





#3

Chloromethane

Concen: 41.892 ug/l

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 241873

Ion Ratio Lower Upper

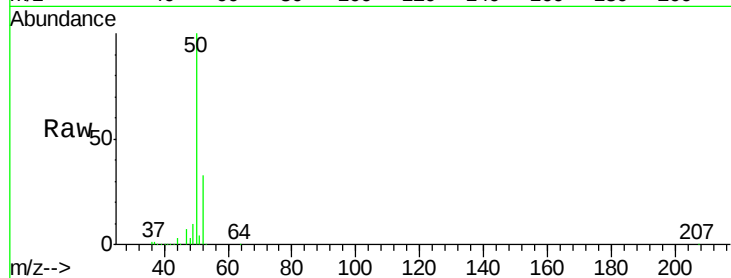
50 100

52 33.2 26.2 39.4

Manual Integrations  
APPROVED

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9/4/2019 4:56:49 PM



Abundance Ion 49.90 (49.60 to 50.60): VU034213.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034213.D (-1) (-)

1.32

250000

200000

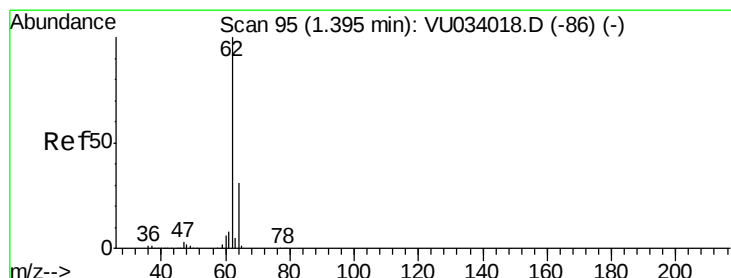
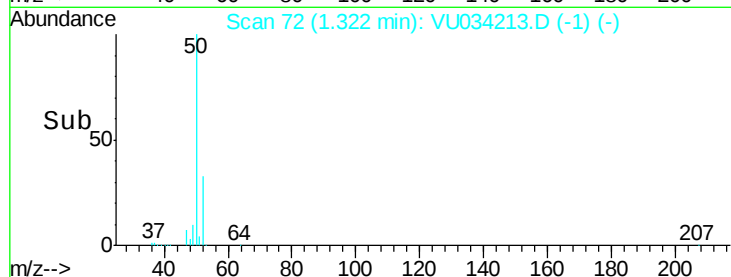
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 43.168 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034213.D

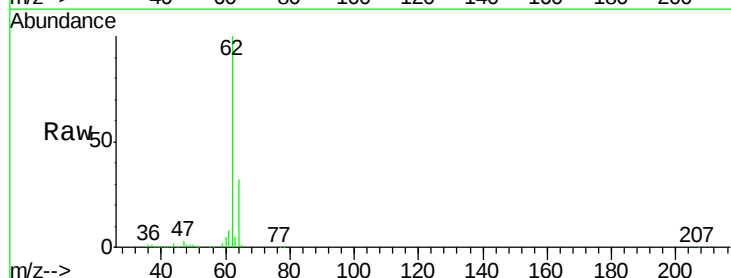
Acq: 03 Sep 2019 09:27

Tgt Ion: 62 Resp: 246394

Ion Ratio Lower Upper

62 100

64 32.2 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VU034213.D (-2) (-)

Ion 63.90 (63.60 to 64.60): VU034213.D (-2) (-)

1.40

250000

200000

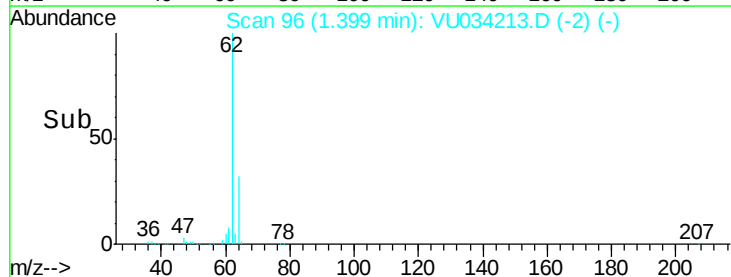
150000

100000

50000

0

Time-->





#5

Bromomethane

Concen: 48.203 ug/l

RT: 1.61 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 133010

Ion Ratio Lower Upper

94 100

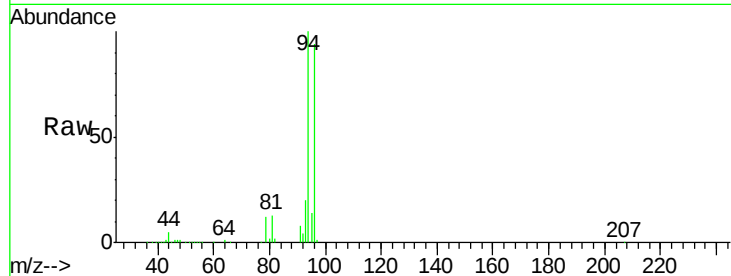
96 93.7 76.3 114.5

Manual Integrations

APPROVED

MMDadoda

9/4/2019 4:56:49 PM



Abundance Ion 93.90 (93.60 to 94.60): VU034213.D (-162) (-)

Ion 95.90 (95.60 to 96.60): VU034213.D (-162) (-)

1.61

120000

100000

80000

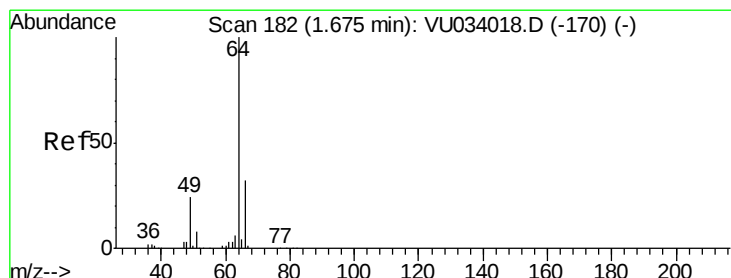
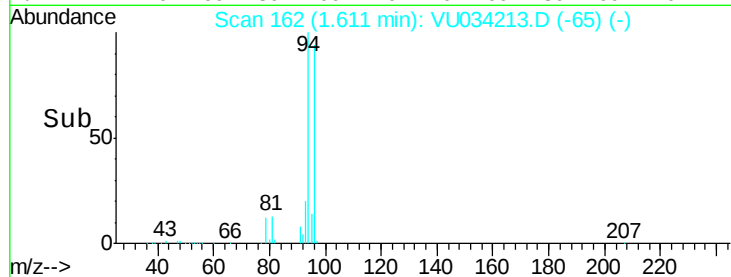
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 43.291 ug/l

RT: 1.69 min Scan# 186

Delta R.T. 0.01 min

Lab File: VU034213.D

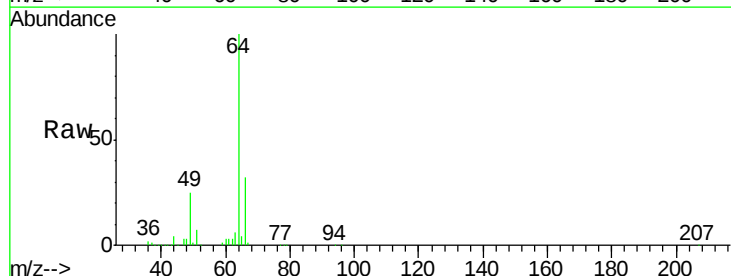
Acq: 03 Sep 2019 09:27

Tgt Ion: 64 Resp: 151064

Ion Ratio Lower Upper

64 100

66 32.2 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU034213.D (-186) (-)

Ion 65.90 (65.60 to 66.60): VU034213.D (-186) (-)

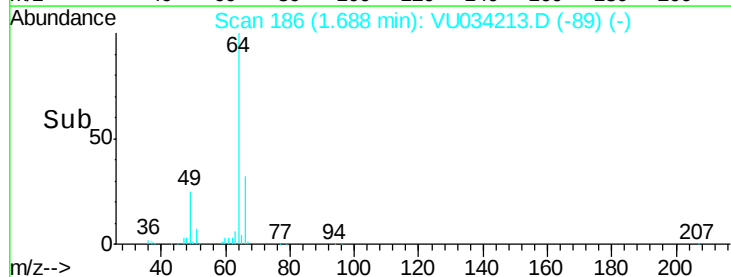
1.69

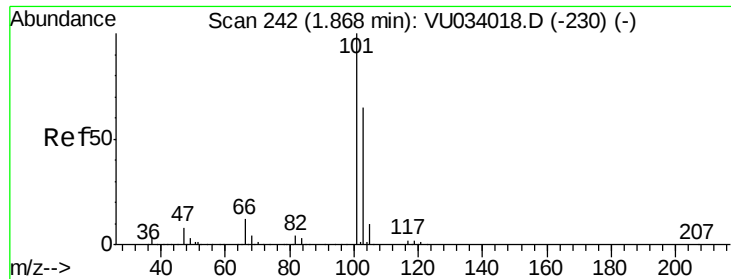
100000

50000

0

Time-->





#7

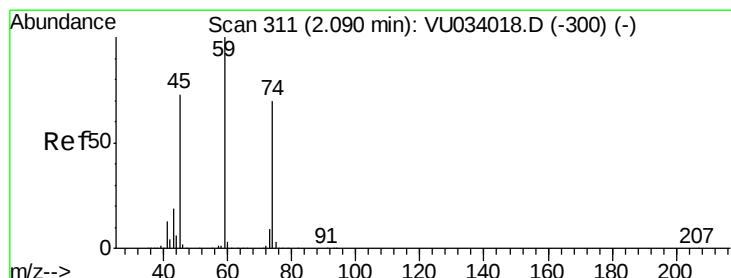
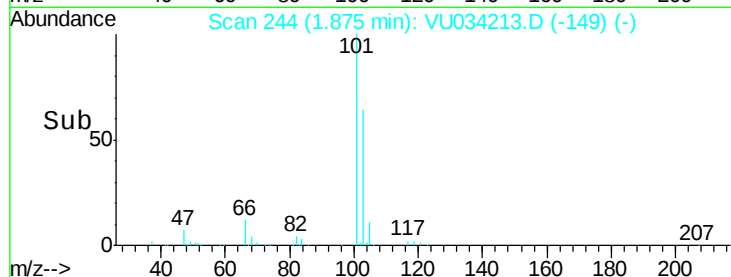
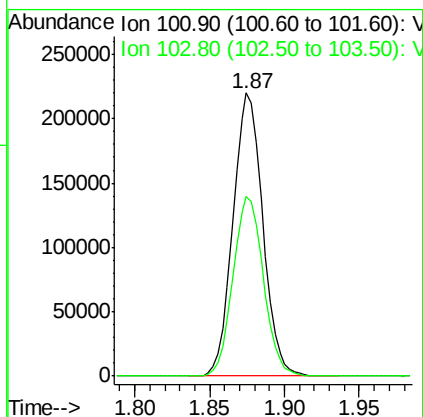
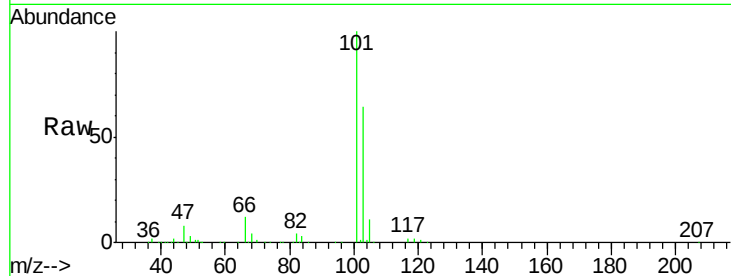
Trichlorofluoromethane  
Concen: 46.186 ug/l  
RT: 1.87 min Scan# 244  
Delta R.T. 0.01 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 63.7  | 52.1  | 78.1  |

Manual Integrations  
APPROVED

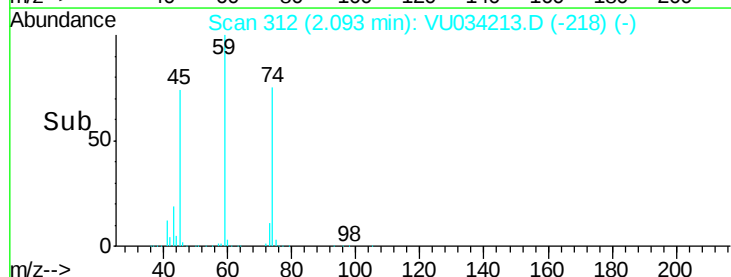
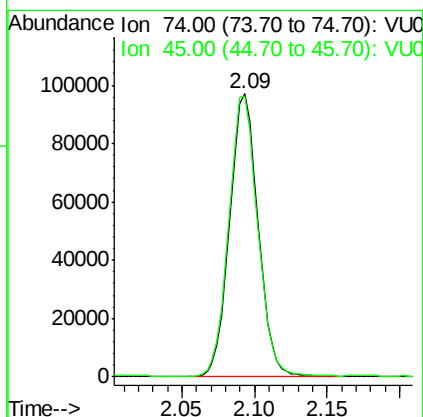
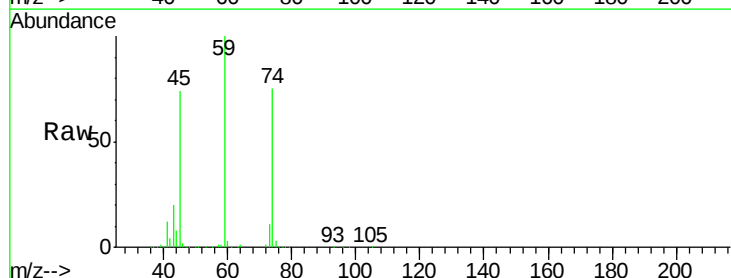
MMDadoda  
9/4/2019 4:56:49 PM



#8

Diethyl Ether  
Concen: 46.751 ug/l  
RT: 2.09 min Scan# 312  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 100.2 | 51.8  | 155.5 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.874 ug/l

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

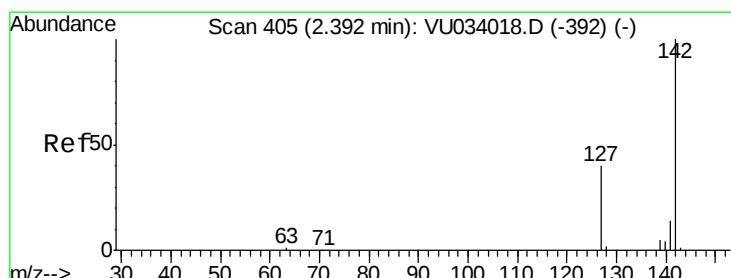
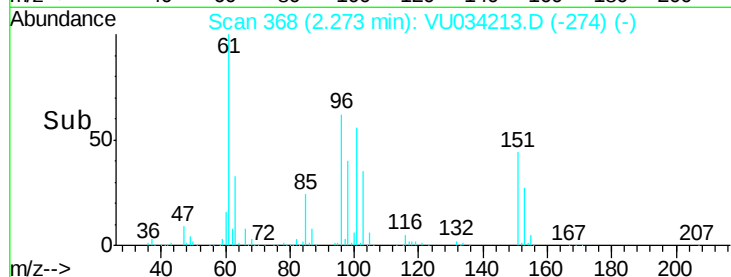
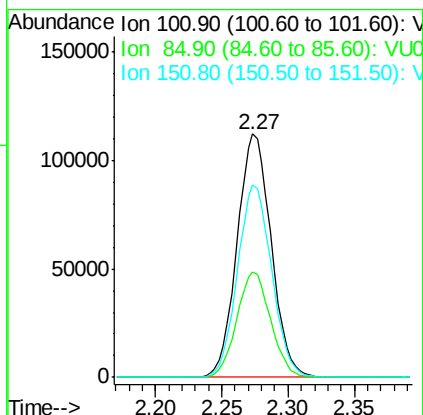
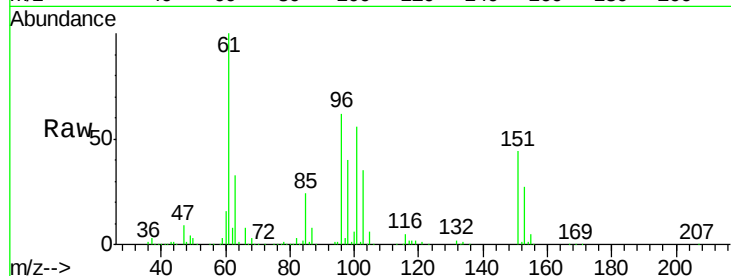
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 200582 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 42.9  | 34.2  | 51.2   |
| 151       | 79.4  | 61.4  | 92.2   |

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#10

Methyl Iodide

Concen: 32.568 ug/l

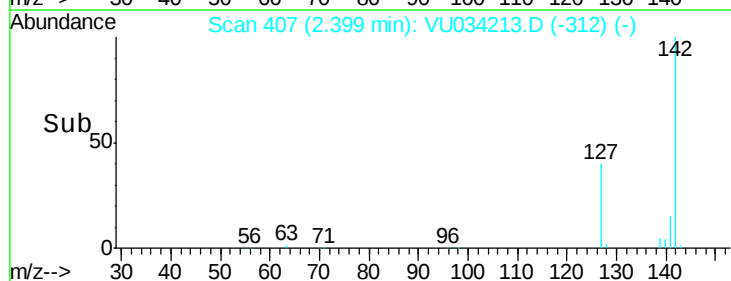
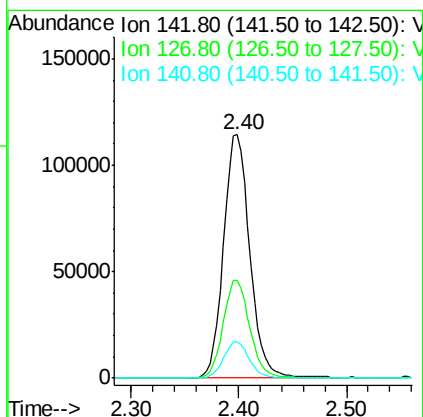
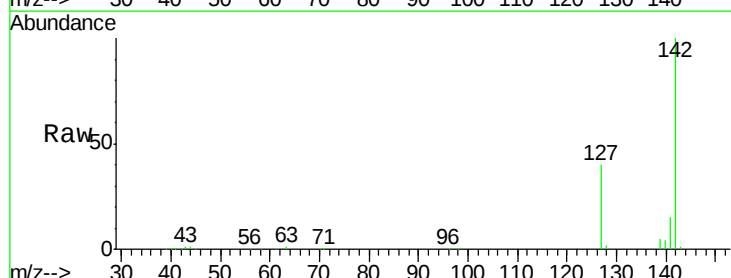
RT: 2.40 min Scan# 407

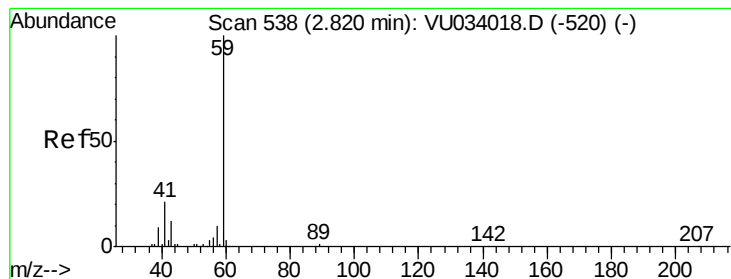
Delta R.T. 0.01 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 193562 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 40.7  | 32.6  | 48.8   |
| 141       | 14.7  | 11.3  | 16.9   |





#11

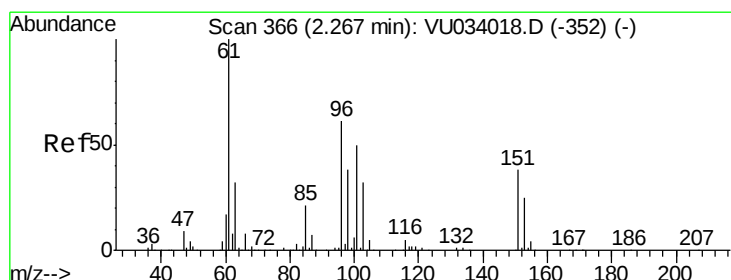
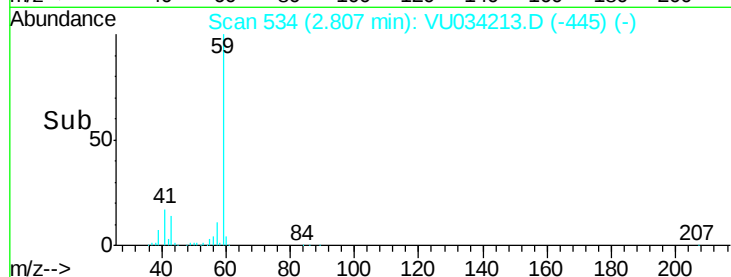
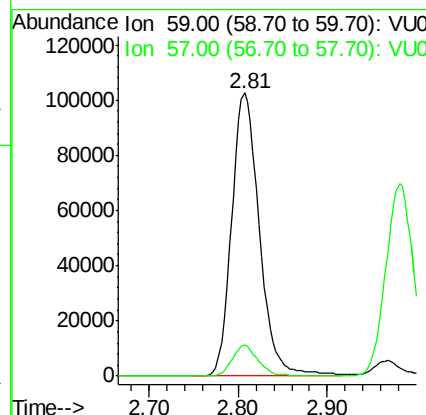
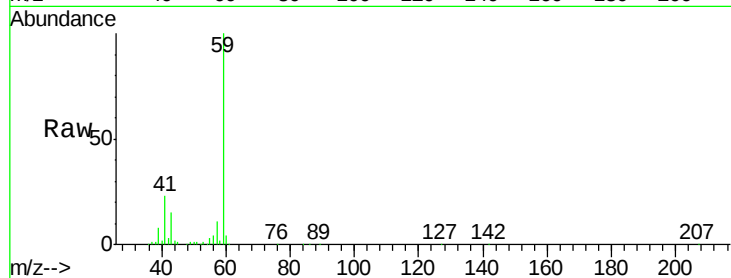
Tert butyl alcohol  
Concen: 175.525 ug/l  
RT: 2.81 min Scan# 534  
Delta R.T. -0.01 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 10.3  | 8.0   | 12.0  |

Manual Integrations  
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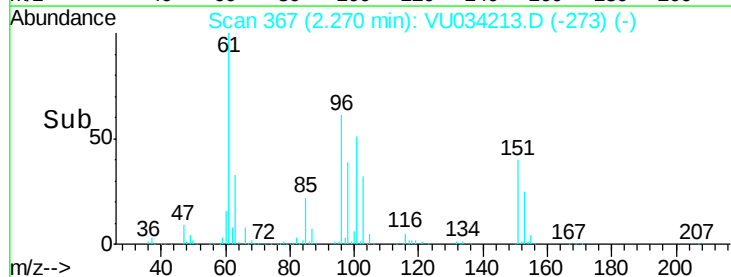
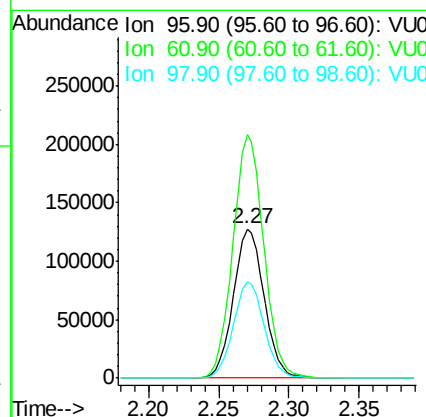
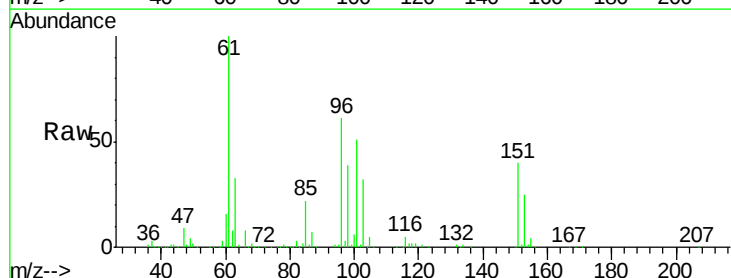
MMDadoda  
9/4/2019 4:56:49 PM

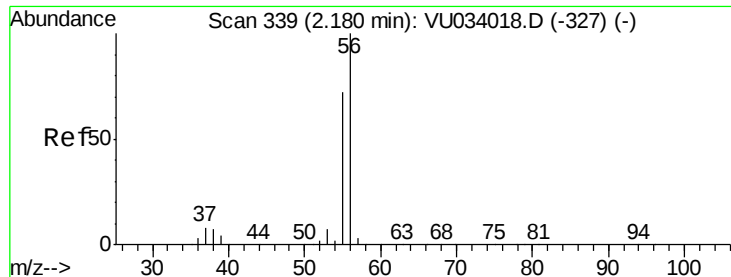


#12

1,1-Dichloroethene  
Concen: 45.699 ug/l  
RT: 2.27 min Scan# 367  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 163.0 | 131.3 | 196.9 |
| 98      | 64.3  | 50.3  | 75.5  |





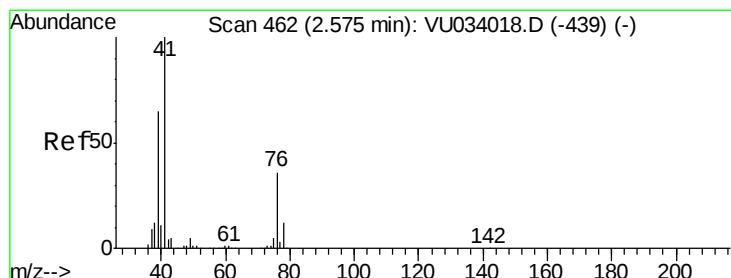
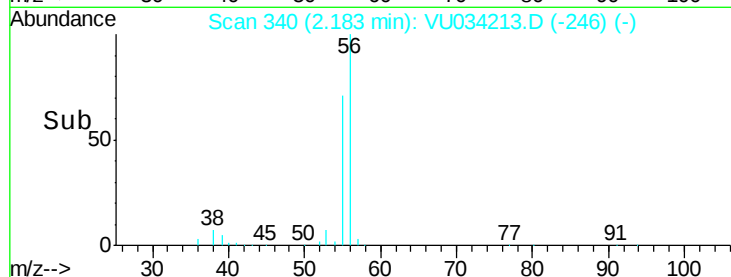
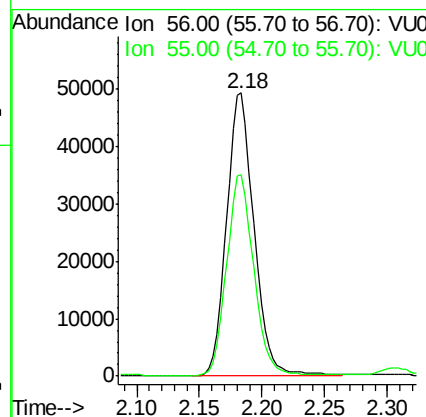
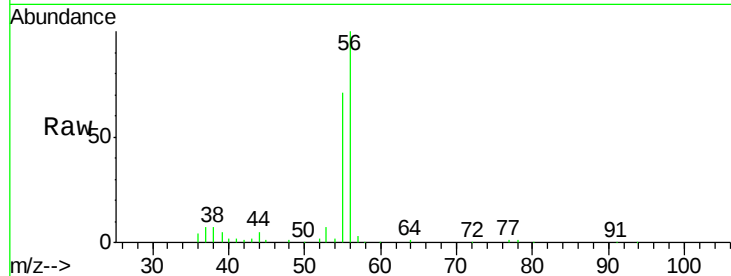
#13  
Acrolein  
Concen: 141.849 ug/l  
RT: 2.18 min Scan# 340  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 56      | 100  |       |       |       |
| 55      | 71.0 | 57.1  | 85.7  |       |

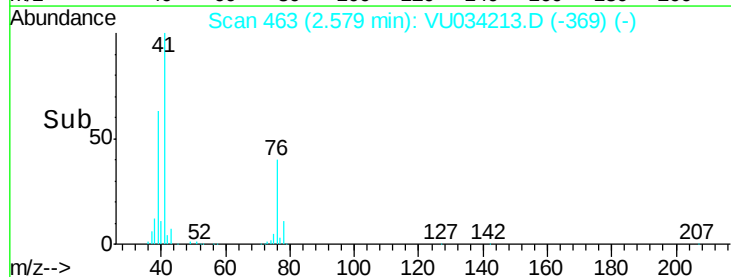
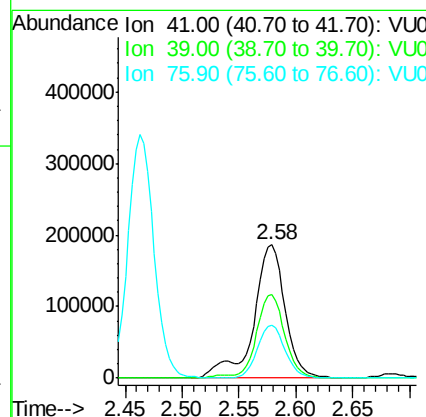
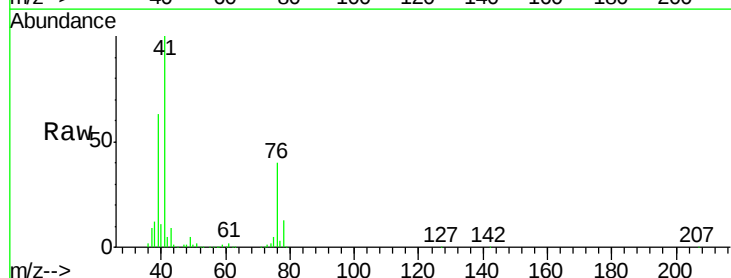
Manual Integrations  
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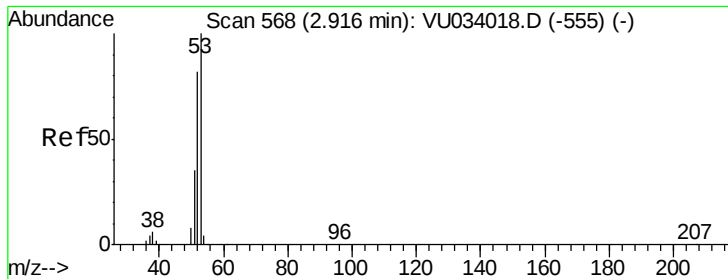
MMDadoda  
9/4/2019 4:56:49 PM



#14  
Allyl chloride  
Concen: 44.686 ug/l m  
RT: 2.58 min Scan# 463  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 41      | 100  |       |       |       |
| 39      | 56.8 | 46.8  | 70.2  |       |
| 76      | 34.3 | 26.6  | 40.0  |       |





#15

Acrylonitrile

Concen: 209.981 ug/l

RT: 2.92 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

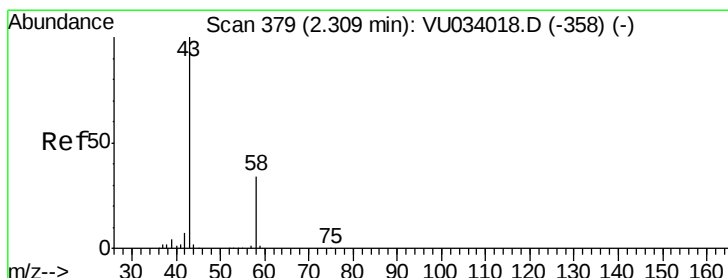
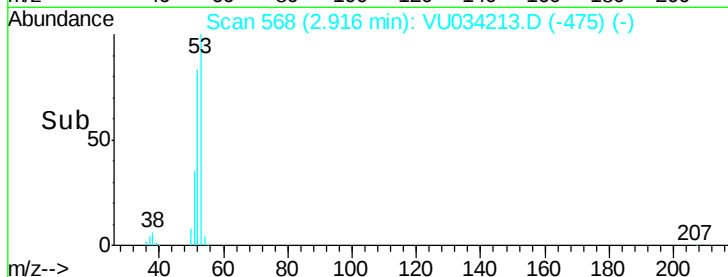
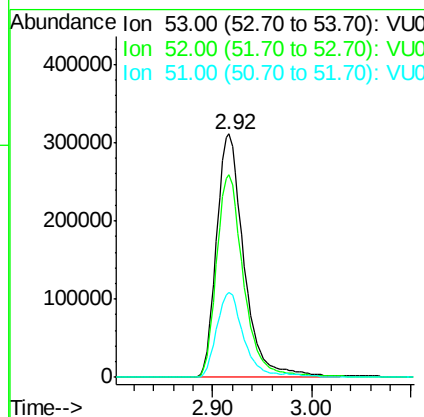
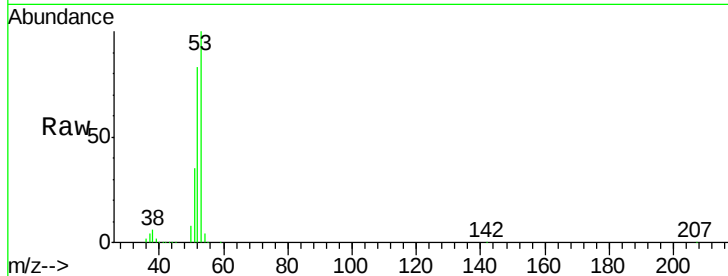
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 607112 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 82.1  | 65.7  | 98.5   |
| 51       | 35.3  | 27.9  | 41.9   |

Manual Integrations  
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9/4/2019 4:56:49 PM



#16

Acetone

Concen: 235.150 ug/l

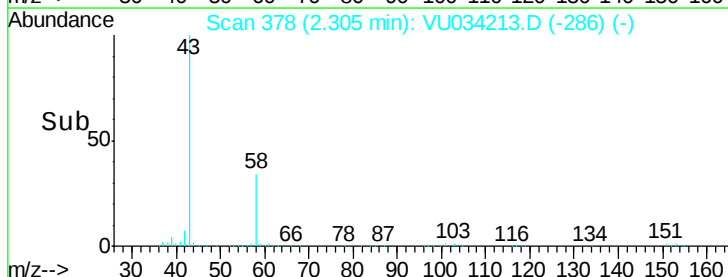
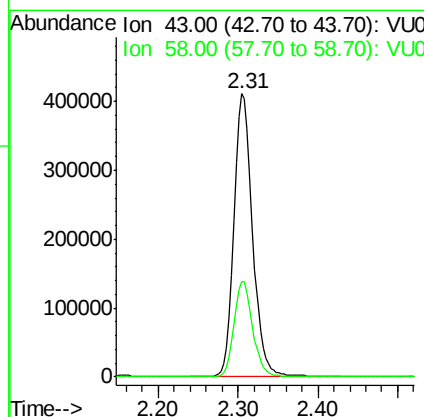
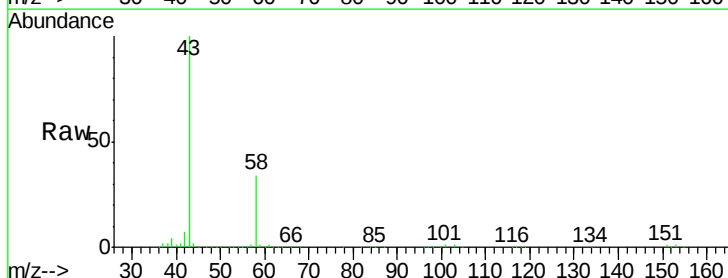
RT: 2.31 min Scan# 378

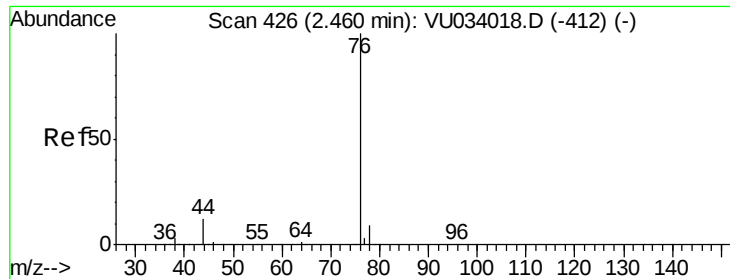
Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 655570 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 33.6  | 26.8  | 40.2   |





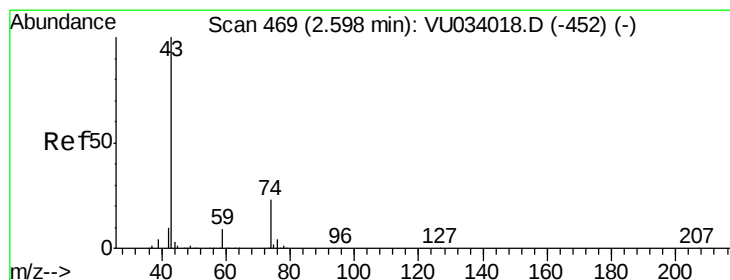
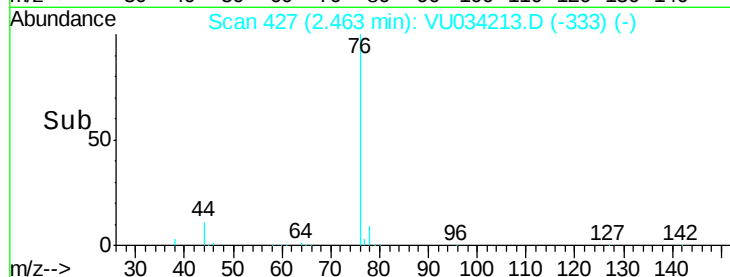
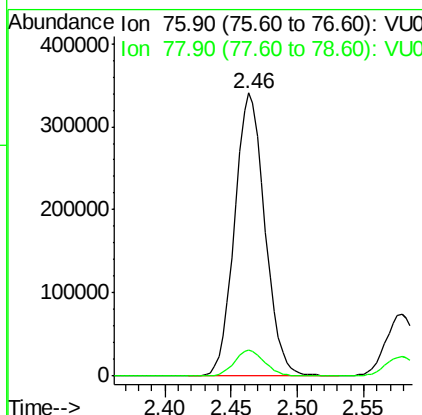
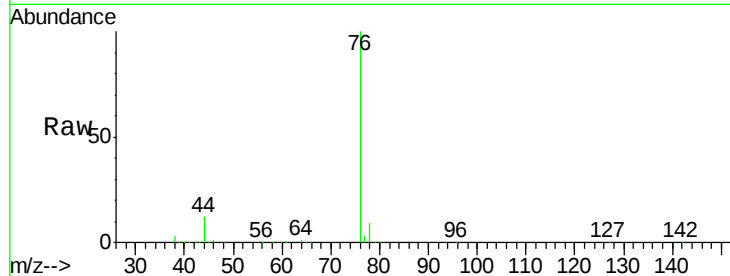
#17  
Carbon Disulfide  
Concen: 40.054 ug/l  
RT: 2.46 min Scan# 427  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

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

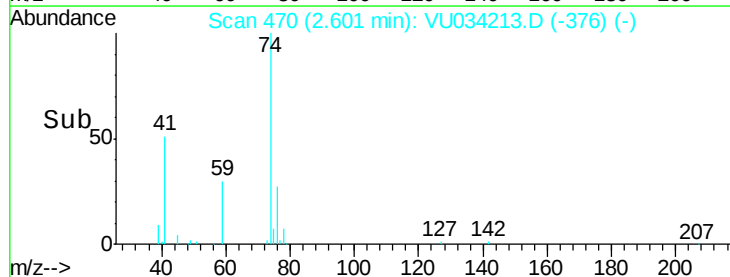
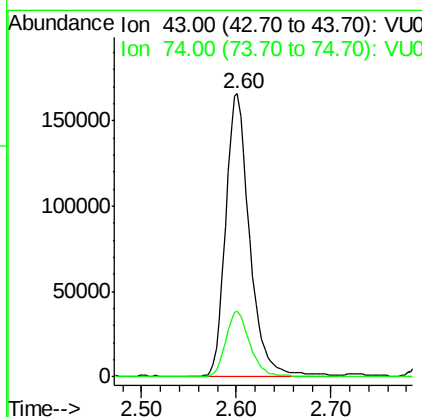
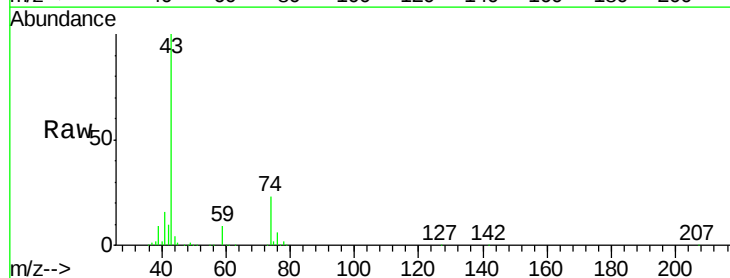
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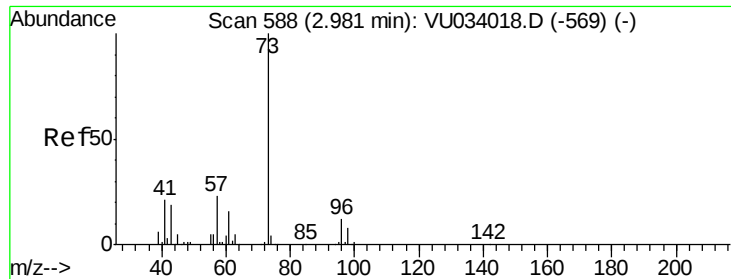
MMDadoda  
9/4/2019 4:56:49 PM



#18  
Methyl Acetate  
Concen: 40.358 ug/l  
RT: 2.60 min Scan# 470  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 23.9  | 19.2  | 28.8  |





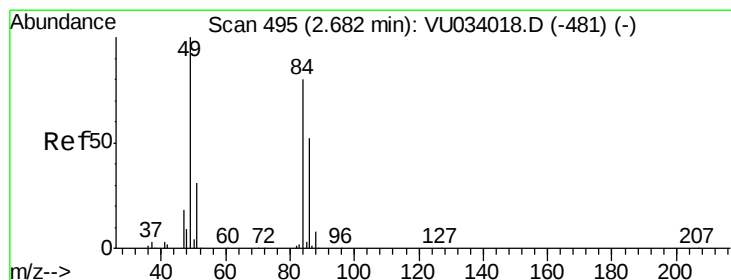
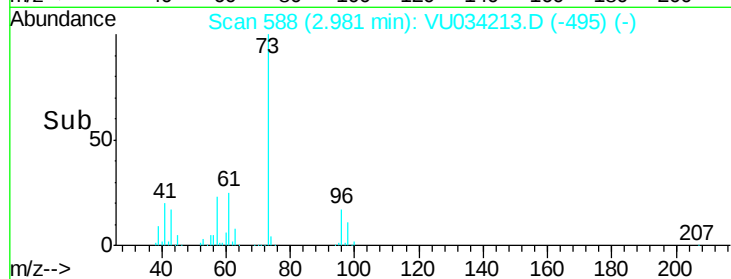
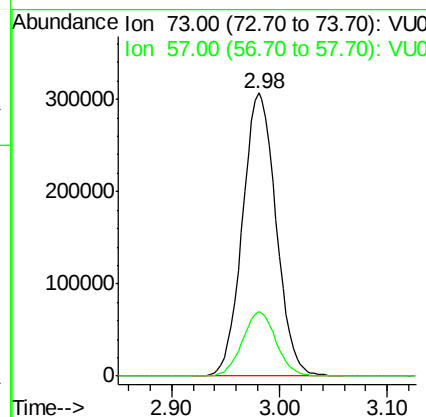
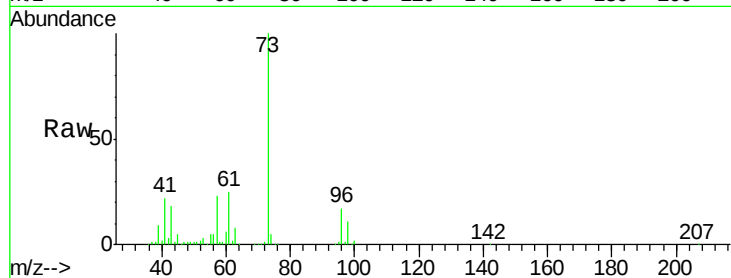
#19  
Methvl tert-butvl Ether  
Concen: 47.530 ug/l  
RT: 2.98 min Scan# 588  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

Tot Ion: 73 Resp: 664796  
Ion Ratio Lower Upper  
73 100  
57 22.7 18.3 27.5

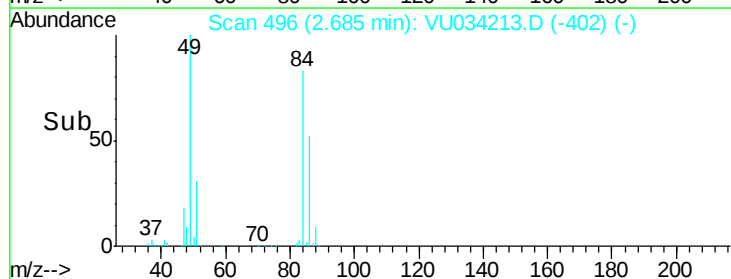
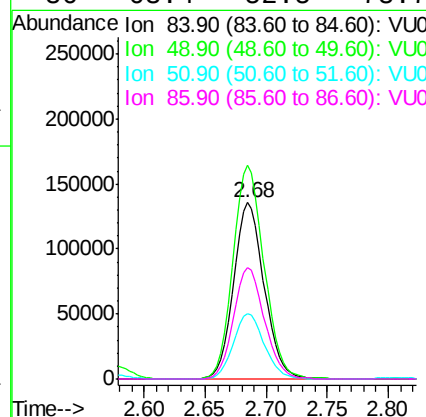
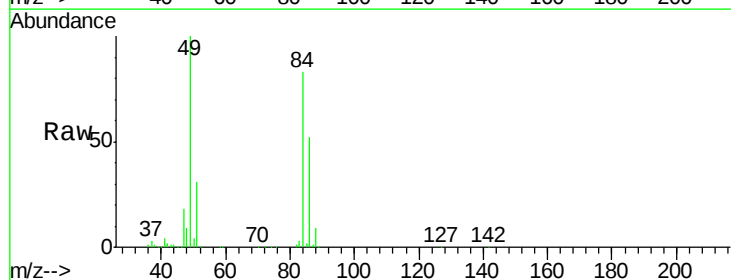
Manual Integrations  
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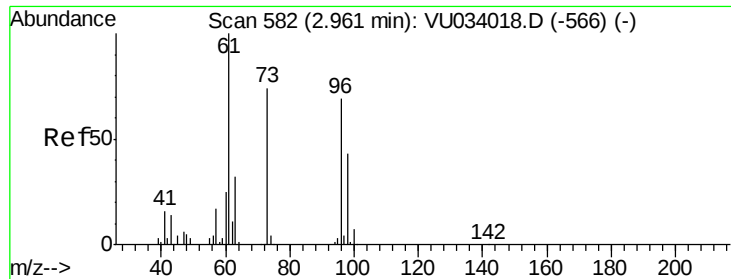
MMDadoda  
9/4/2019 4:56:49 PM



#20  
Methylene Chloride  
Concen: 44.919 ug/l  
RT: 2.68 min Scan# 496  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Tgt Ion: 84 Resp: 237070  
Ion Ratio Lower Upper  
84 100  
49 121.1 100.2 150.4  
51 37.0 30.8 46.2  
86 63.4 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 45.628 ug/l

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

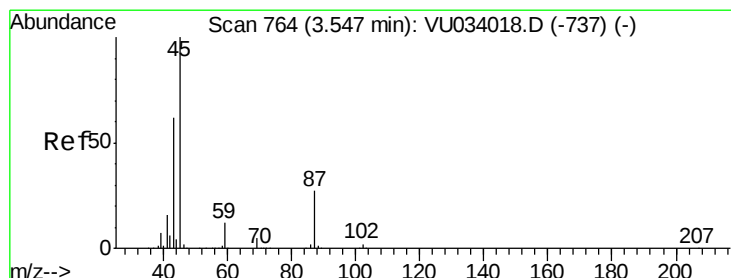
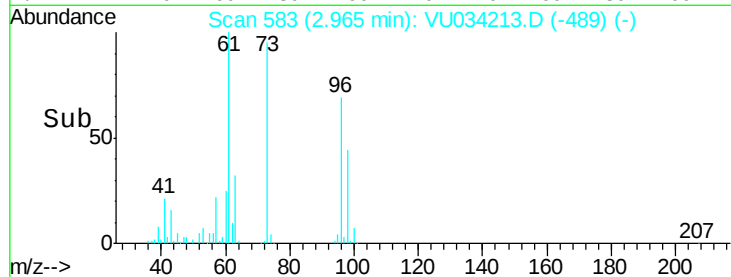
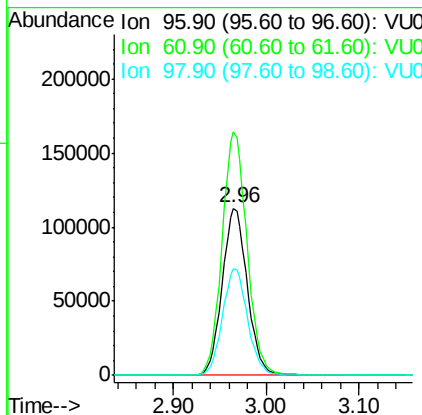
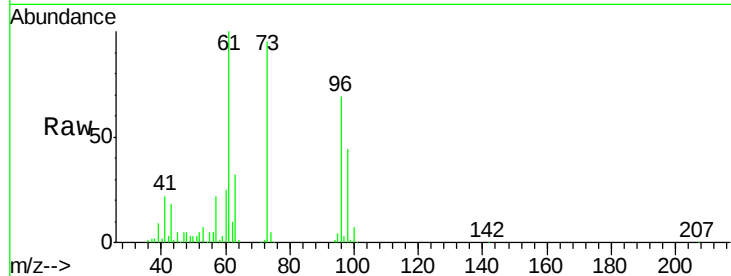
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 211390 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 145.5 | 115.5 | 173.3  |
| 98       | 63.6  | 50.1  | 75.1   |

Manual Integrations  
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9/4/2019 4:56:49 PM



#22

Diisopropyl ether

Concen: 48.736 ug/l

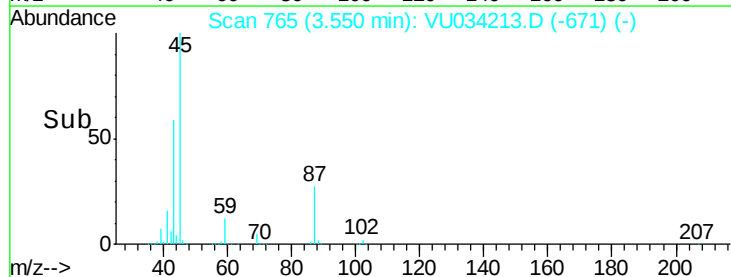
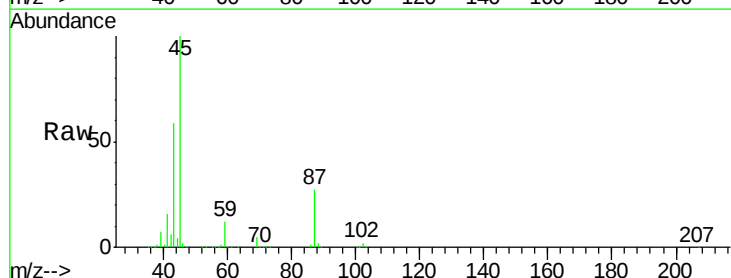
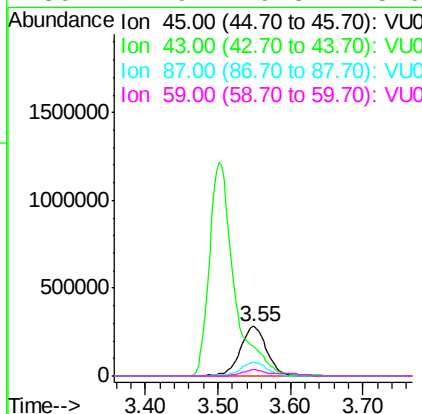
RT: 3.55 min Scan# 765

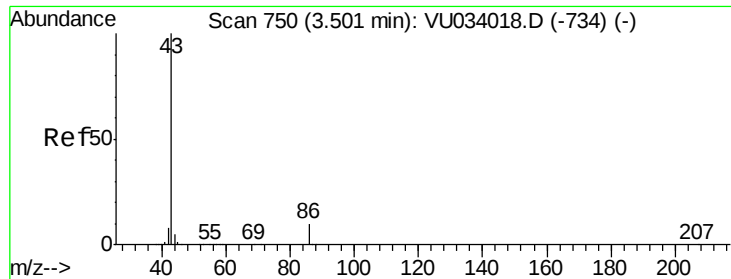
Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 716774 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 59.0  | 49.7  | 74.5   |
| 87       | 27.2  | 21.8  | 32.8   |
| 59       | 11.9  | 9.3   | 13.9   |





#23

Vinyl Acetate

Concen: 228.760 ug/l

RT: 3.50 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2890147

Ion Ratio Lower Upper

43 100

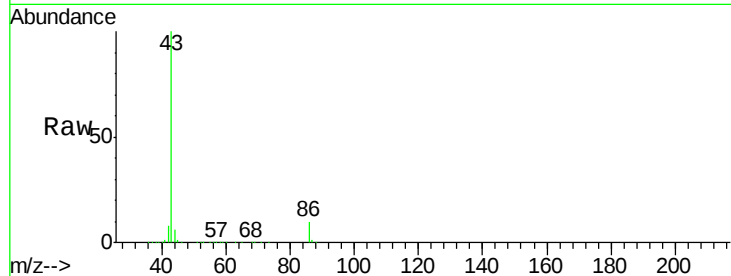
86 10.4 8.3 12.5

Manual Integrations

APPROVED

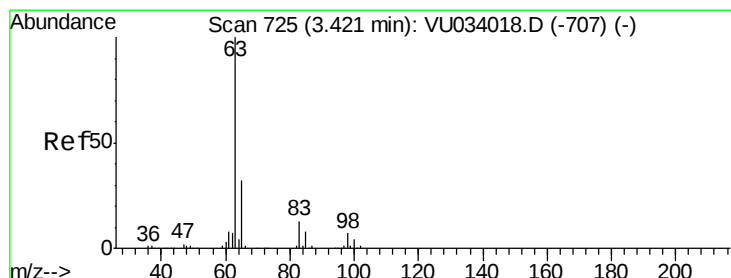
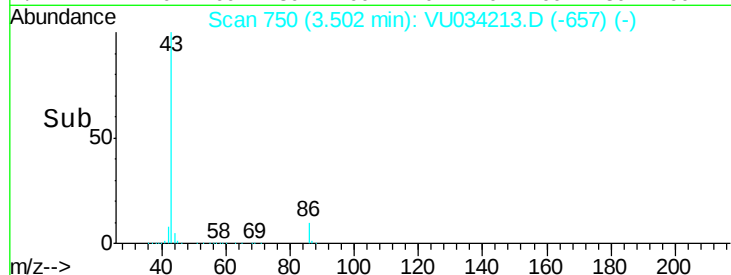
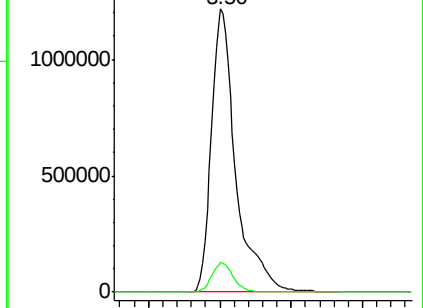
MMDadoda

9/4/2019 4:56:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-734) (-)

Ion 86.00 (85.70 to 86.70): VU034018.D (-734) (-)



#24

1,1-Dichloroethane

Concen: 46.914 ug/l

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

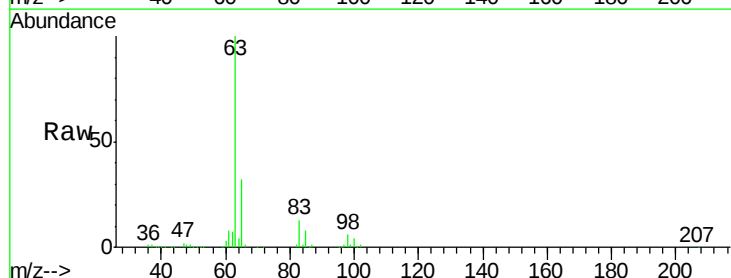
Tgt Ion: 63 Resp: 407357

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

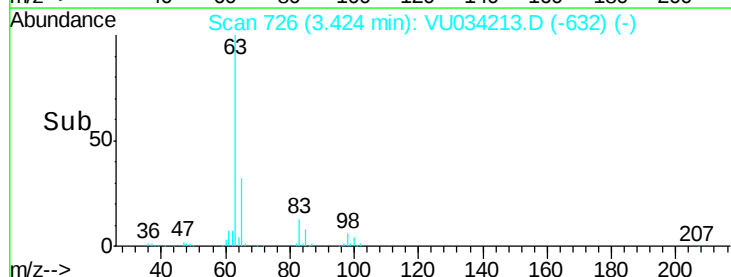
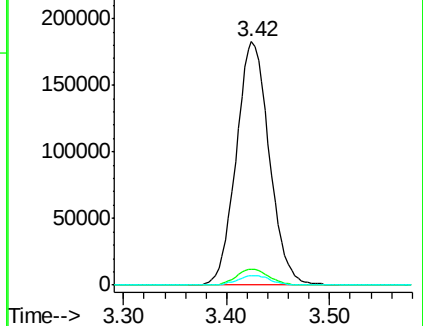
100 4.0 2.0 6.0

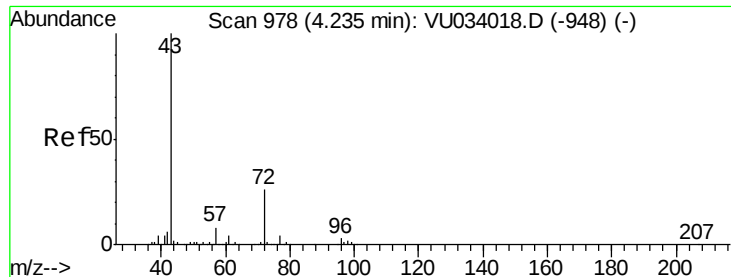


Abundance Ion 62.90 (62.60 to 63.60): VU034018.D (-707) (-)

Ion 97.90 (97.60 to 98.60): VU034018.D (-707) (-)

Ion 99.90 (99.60 to 100.60): VU034018.D (-707) (-)





#25

2-Butanone

Concen: 221.037 ug/l

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 857331

Ion Ratio Lower Upper

43 100

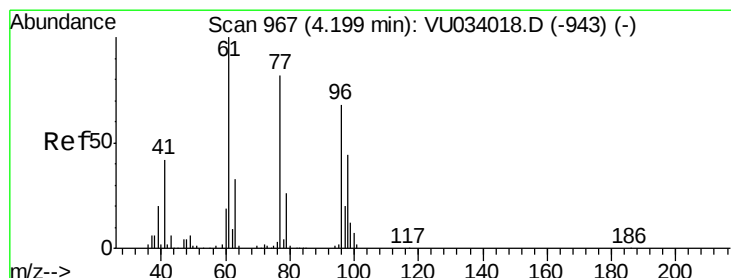
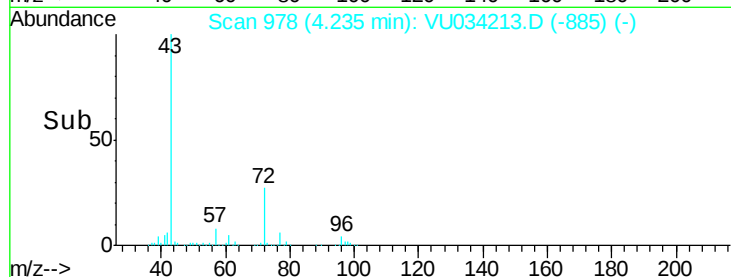
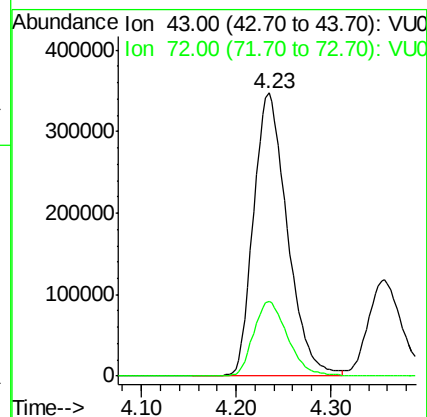
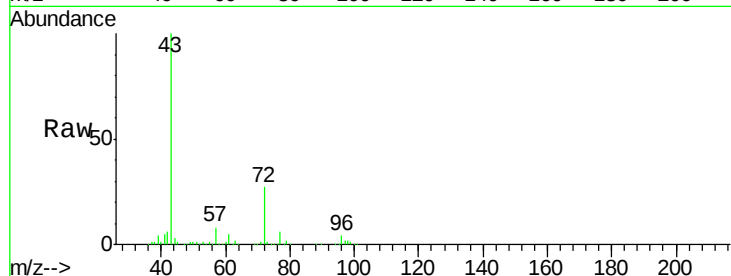
72 26.6 21.2 31.8

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 46.479 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034213.D

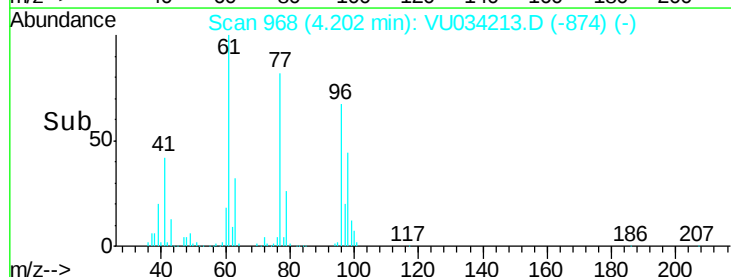
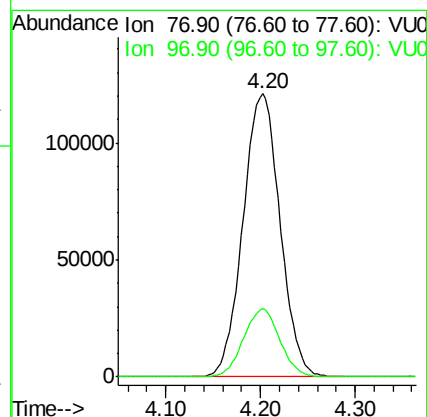
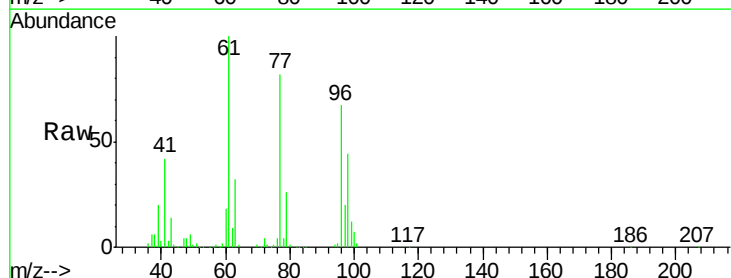
Acq: 03 Sep 2019 09:27

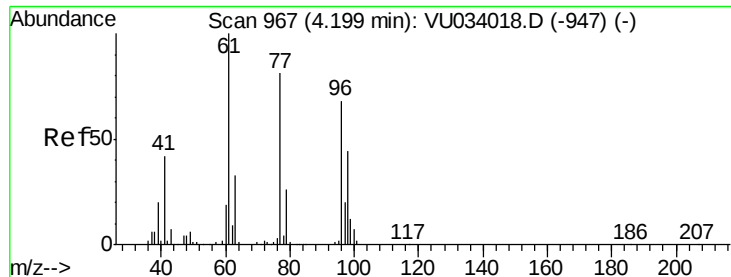
Tgt Ion: 77 Resp: 328389

Ion Ratio Lower Upper

77 100

97 23.6 11.6 34.7





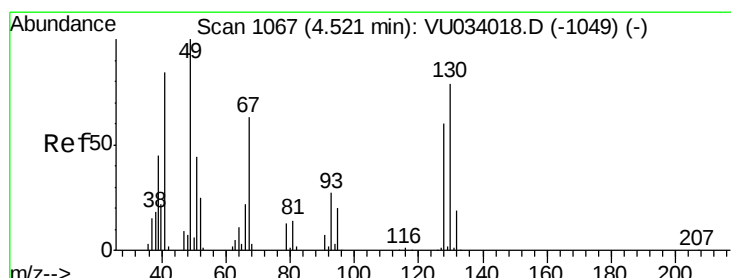
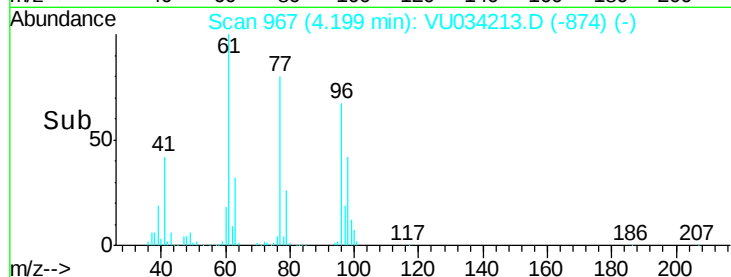
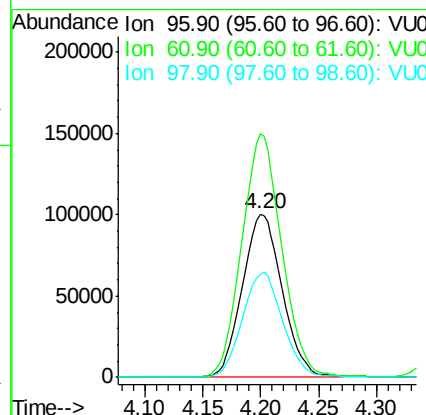
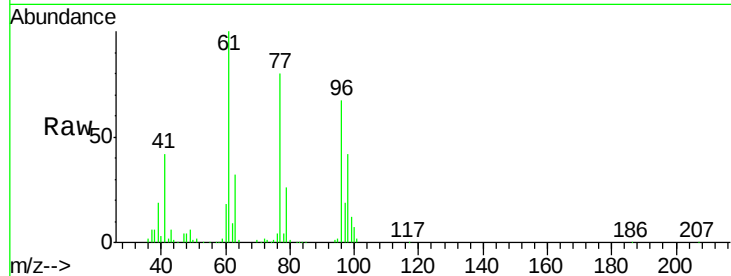
#27  
 cis-1,2-Dichloroethene  
 Concen: 46.098 ug/l  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 96      | 100   | 239715 |       |       |
| 61      | 150.0 | 0.0    | 303.0 |       |
| 98      | 65.2  | 0.0    | 129.2 |       |

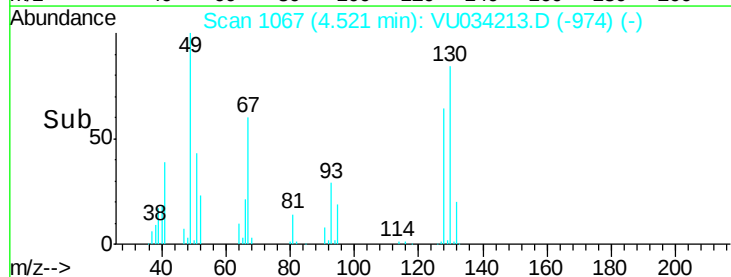
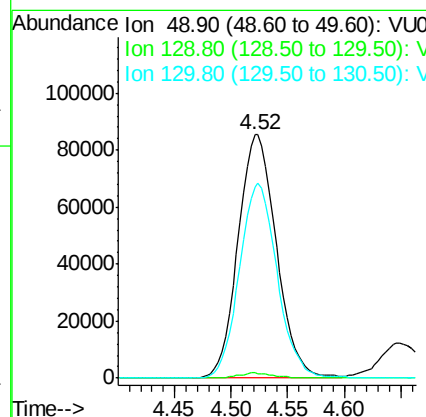
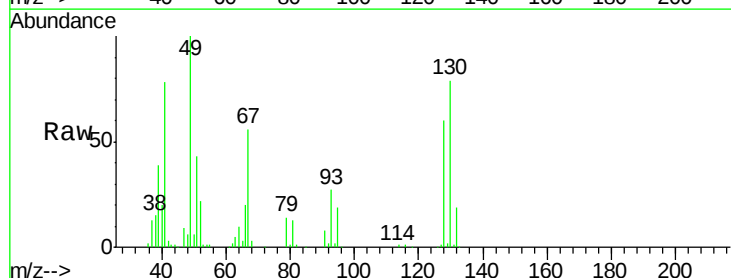
Manual Integrations  
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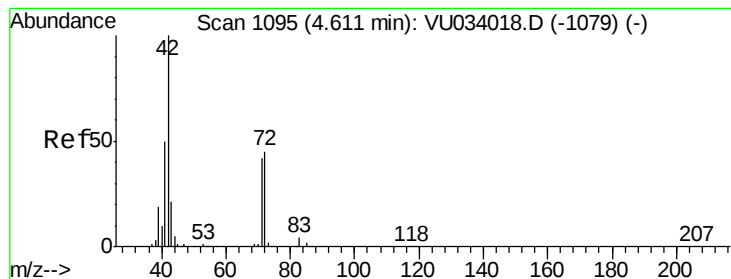
MMDadoda  
 9/4/2019 4:56:49 PM



#28  
 Bromochloromethane  
 Concen: 47.165 ug/l  
 RT: 4.52 min Scan# 1067  
 Delta R.T. 0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 49      | 100   | 201769 |       |       |
| 129     | 1.9   | 0.0    | 3.6   |       |
| 130     | 78.6  | 62.8   | 94.2  |       |





#29

Tetrahydrofuran

Concen: 208.818 ug/l

RT: 4.61 min Scan# 1095

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

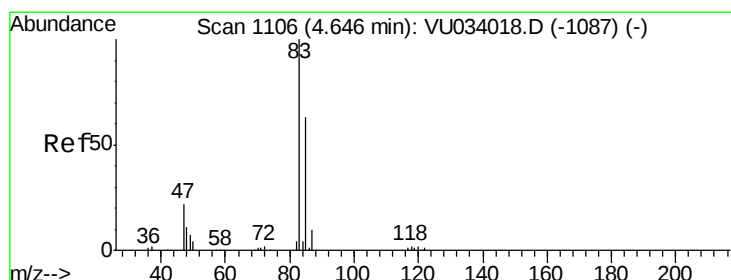
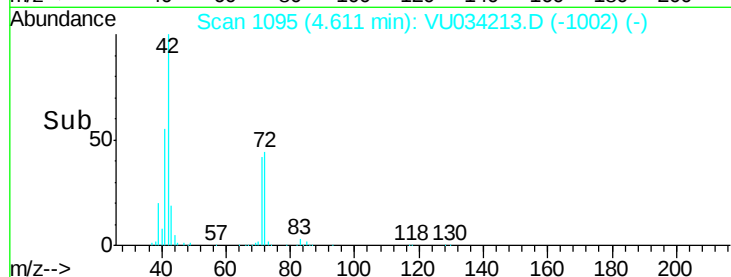
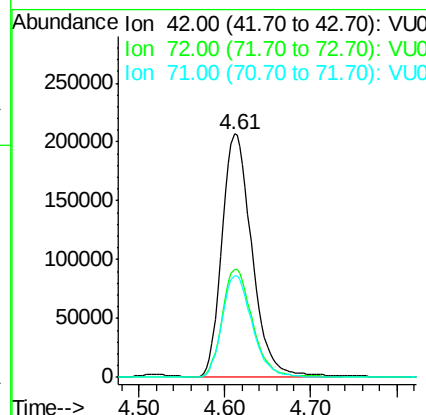
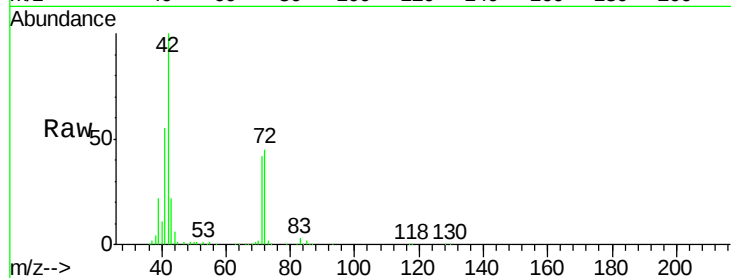
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 499489 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 44.9  | 35.8  | 53.6   |
| 71       | 42.0  | 34.0  | 51.0   |

Manual Integrations  
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#30

Chloroform

Concen: 45.956 ug/l

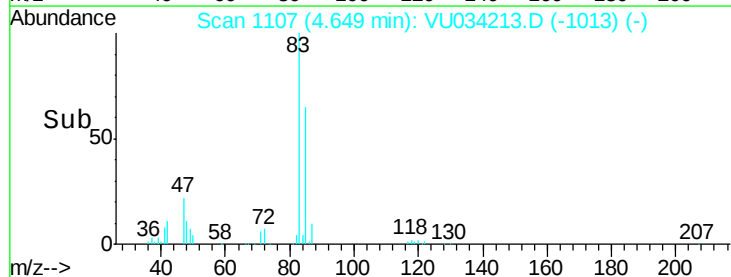
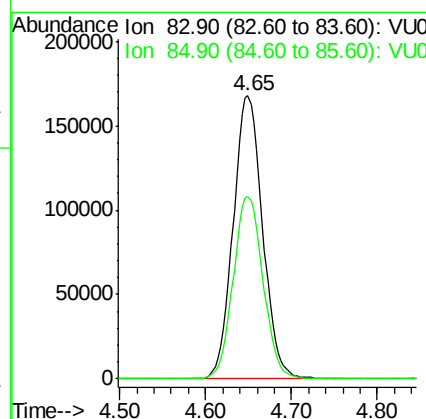
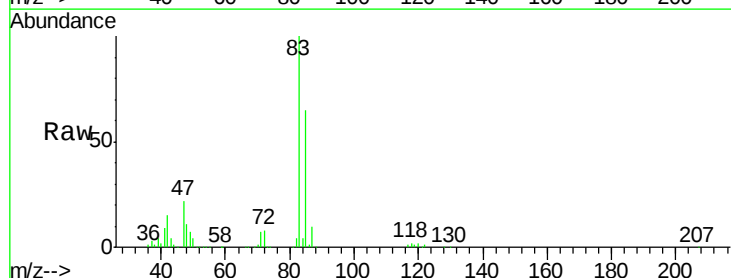
RT: 4.65 min Scan# 1107

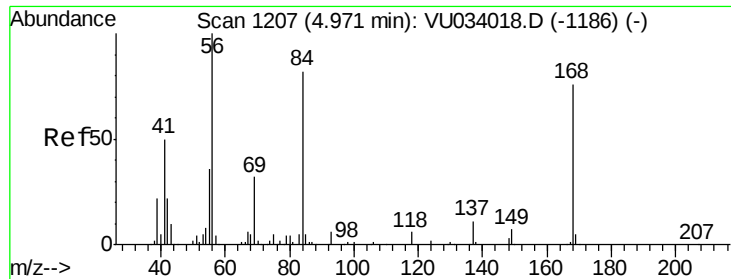
Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 398130 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.5  | 50.7  | 76.1   |





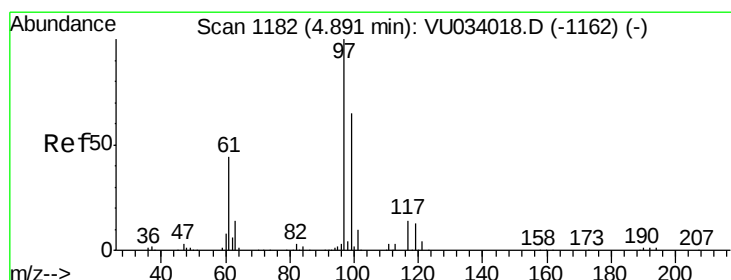
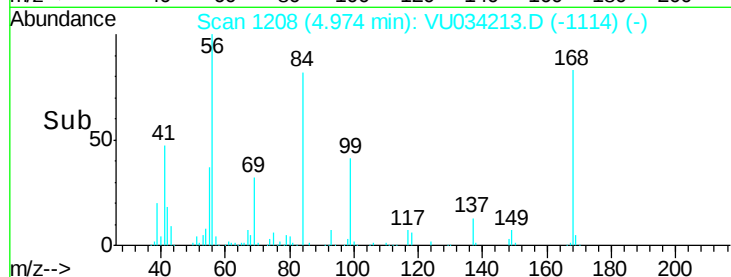
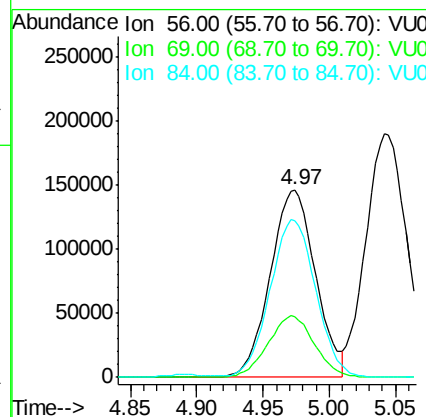
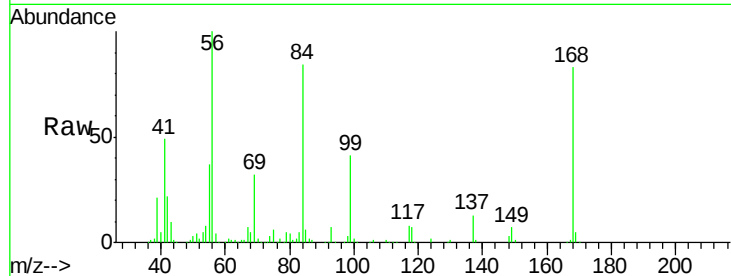
#31  
Cyclohexane  
Concen: 42.812 ug/l  
RT: 4.97 min Scan# 1208  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | 56    | Resp  | 349304 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 56      | 100   |       |        |
| 69      | 32.2  | 25.4  | 38.0   |
| 84      | 82.3  | 65.8  | 98.8   |

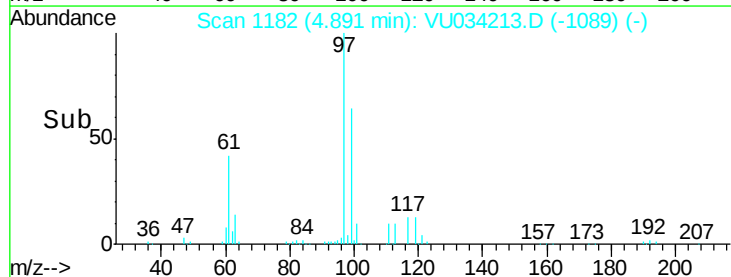
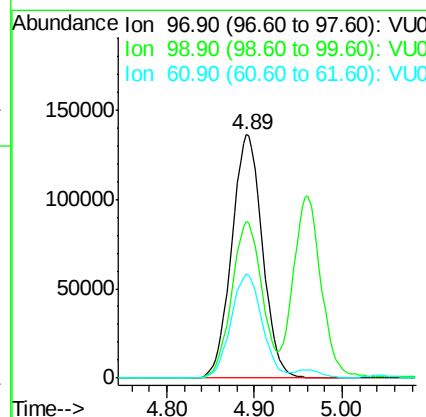
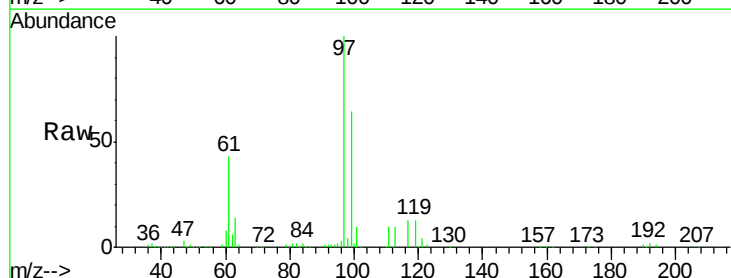
Manual Integrations  
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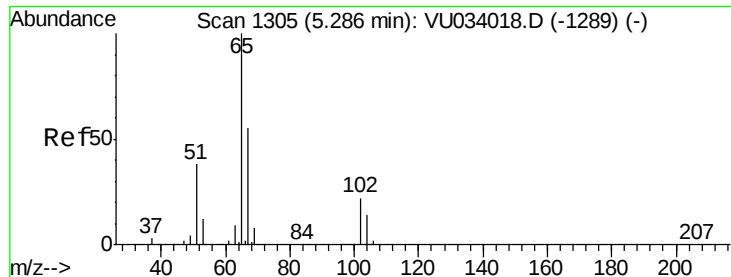
MMDadoda  
9/4/2019 4:56:49 PM



#32  
1,1,1-Trichloroethane  
Concen: 46.684 ug/l  
RT: 4.89 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | 97    | Resp  | 331234 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 97      | 100   |       |        |
| 99      | 63.6  | 51.8  | 77.6   |
| 61      | 43.5  | 35.3  | 52.9   |





#33

1,2-Dichloroethane-d4

Concen: 47.510 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 259586

Ion Ratio Lower Upper

65 100

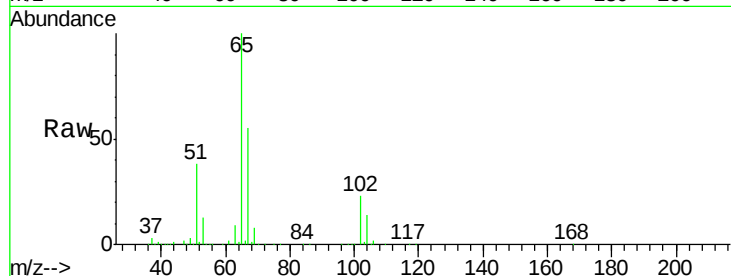
67 55.8 0.0 110.6

Manual Integrations

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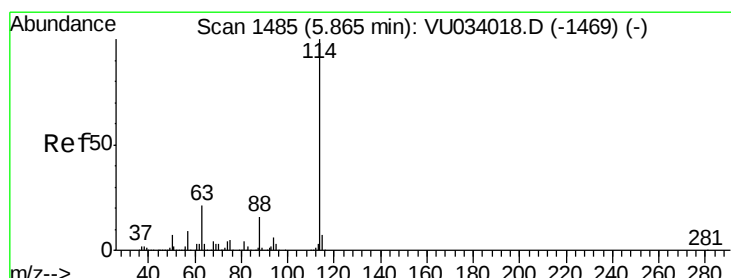
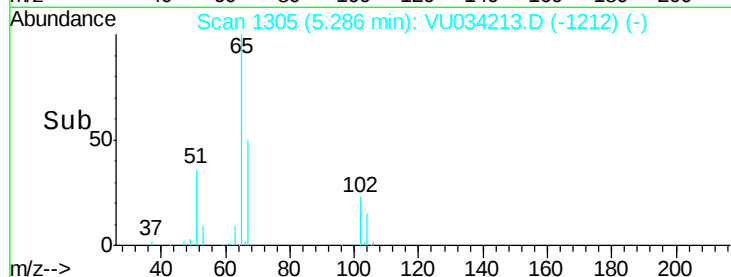
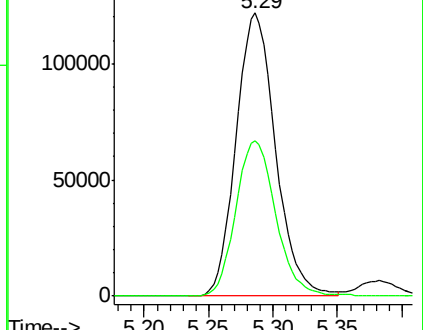
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VU034213.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034213.D (-1212) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

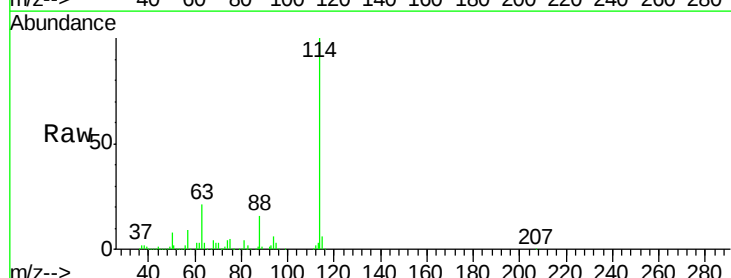
Tgt Ion: 114 Resp: 646240

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.0

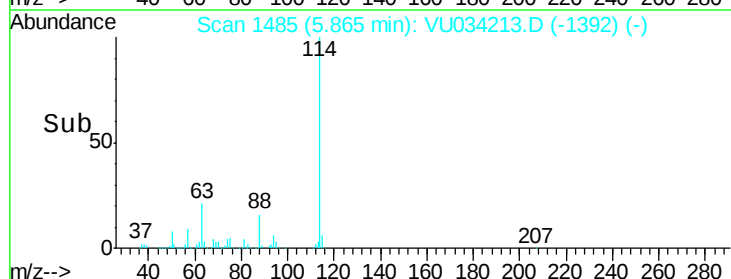
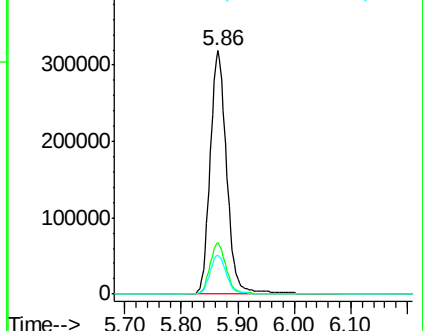
88 16.1 0.0 32.0

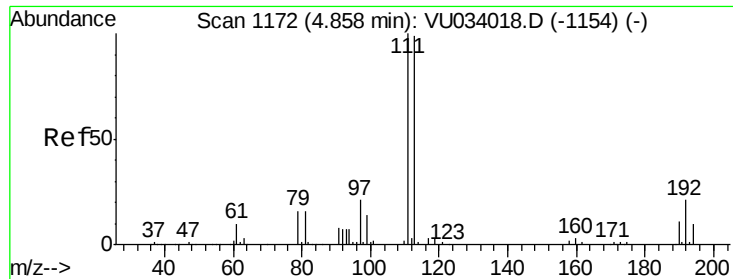


Abundance Ion 113.90 (113.60 to 114.60): VU034213.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034213.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034213.D (-1392) (-)





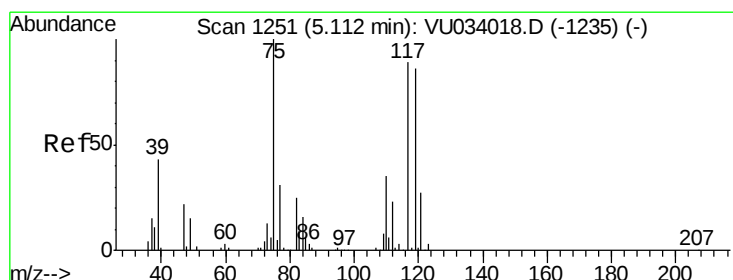
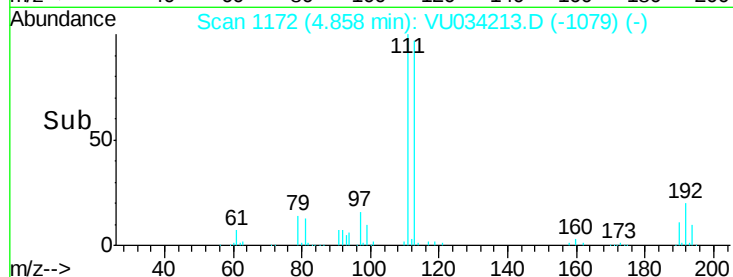
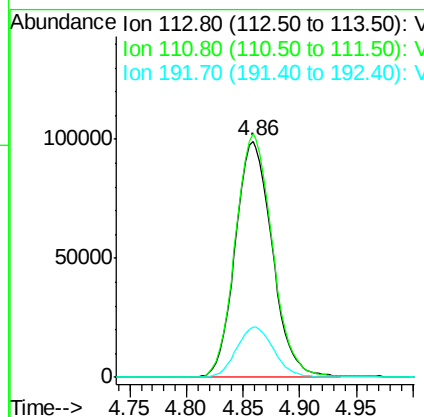
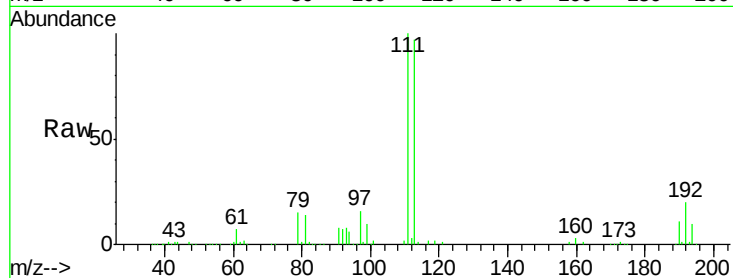
#35  
Dibromofluoromethane  
Concen: 50.454 ug/l  
RT: 4.86 min Scan# 1172  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 226150 |       |       |
| 111     | 103.3 | 81.7   | 122.5 |       |
| 192     | 21.4  | 17.1   | 25.7  |       |

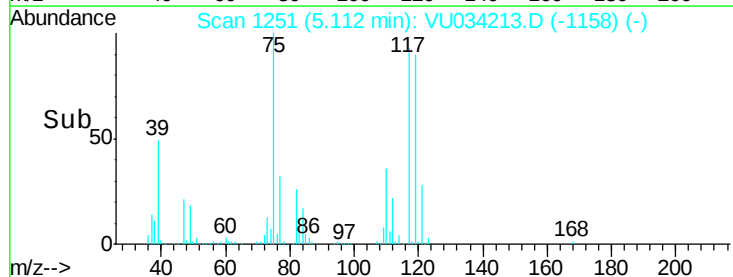
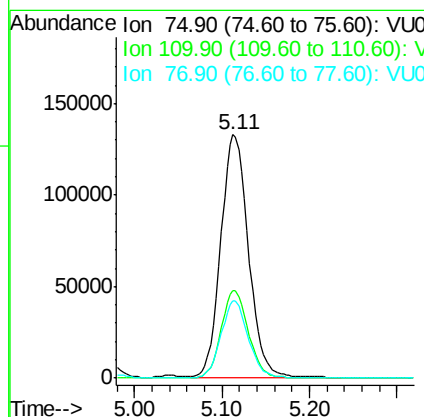
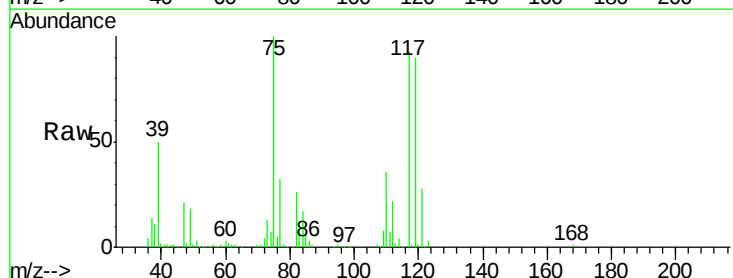
Manual Integrations  
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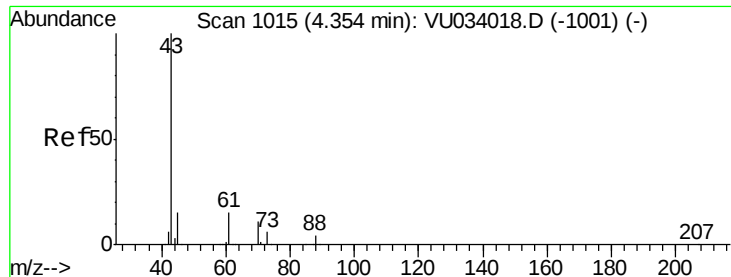
MMDadoda  
9/4/2019 4:56:49 PM



#36  
1,1-Dichloropropene  
Concen: 47.655 ug/l  
RT: 5.11 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 291294 |       |       |
| 110     | 35.7  | 17.8   | 53.5  |       |
| 77      | 30.9  | 25.0   | 37.4  |       |





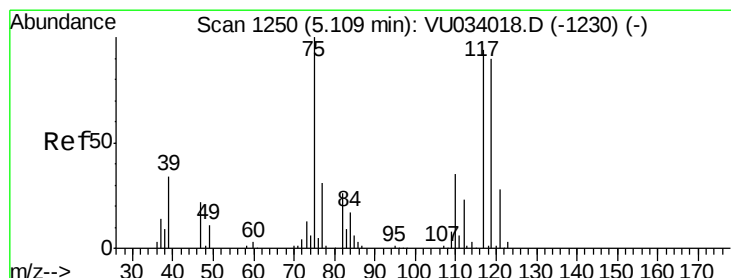
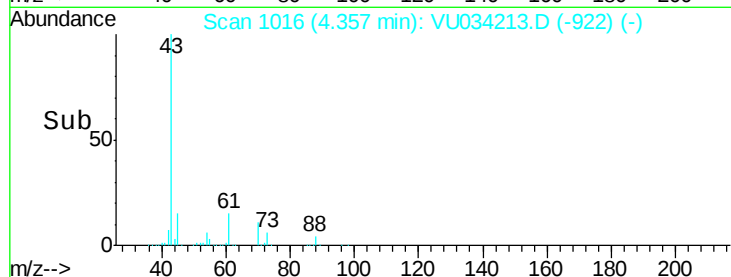
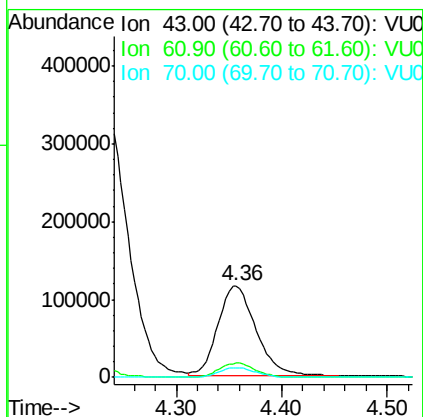
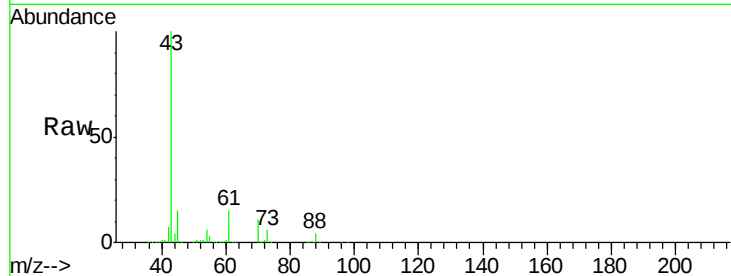
#37  
Ethyl Acetate  
Concen: 42.773 ug/l  
RT: 4.36 min Scan# 1016  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.8  | 11.5  | 17.3  |
| 70      | 11.0  | 8.6   | 12.8  |

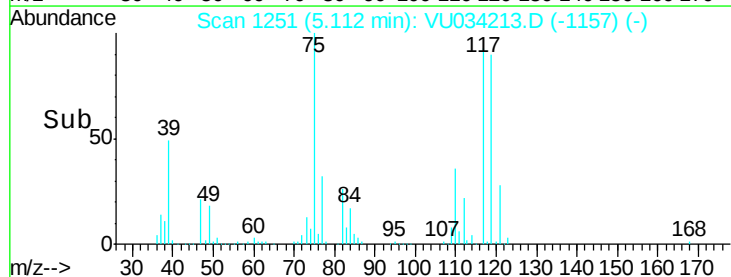
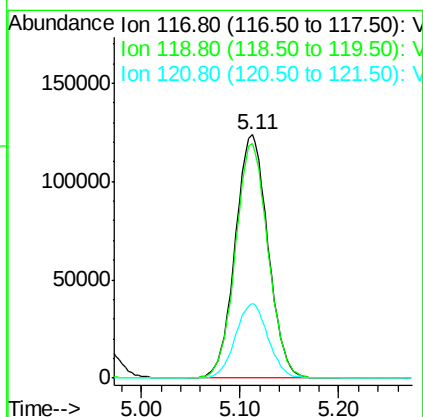
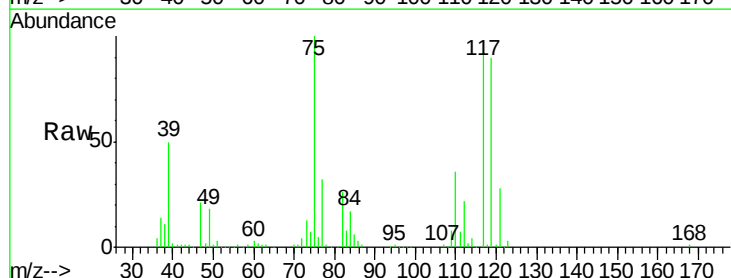
Manual Integrations  
APPROVED

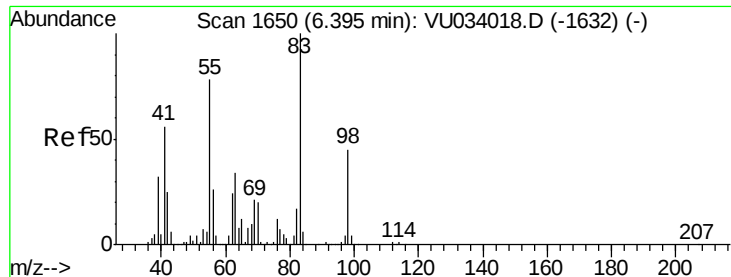
MMDadoda  
9/4/2019 4:56:49 PM



#38  
Carbon Tetrachloride  
Concen: 48.262 ug/l  
RT: 5.11 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.6  | 77.0  | 115.4 |
| 121     | 30.7  | 23.9  | 35.9  |





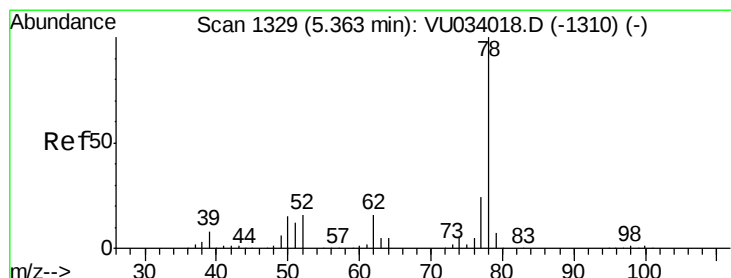
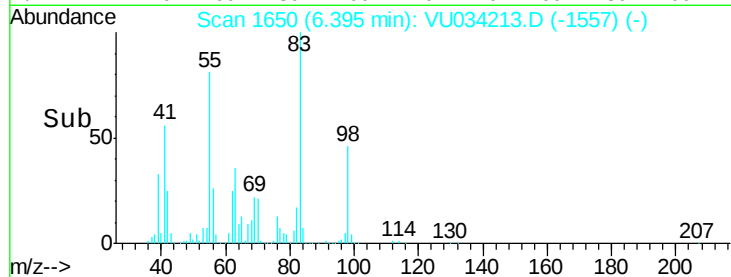
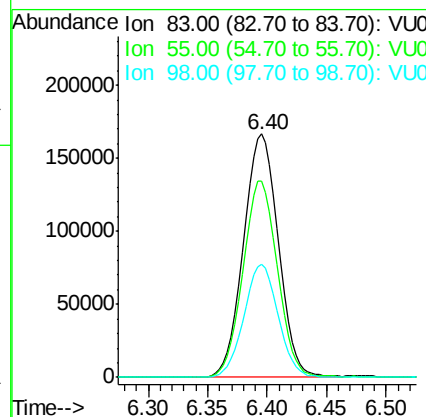
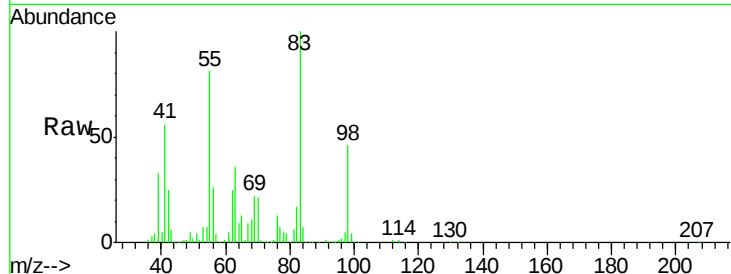
#39  
Methvlcvclohexane  
Concen: 47.090 ug/l  
RT: 6.40 min Scan# 1650  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion   | 83    | Resp  | 339263 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 55        | 80.7  | 62.3  | 93.5   |
| 98        | 46.5  | 36.2  | 54.2   |

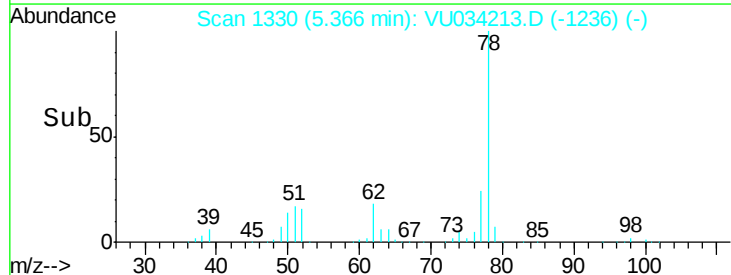
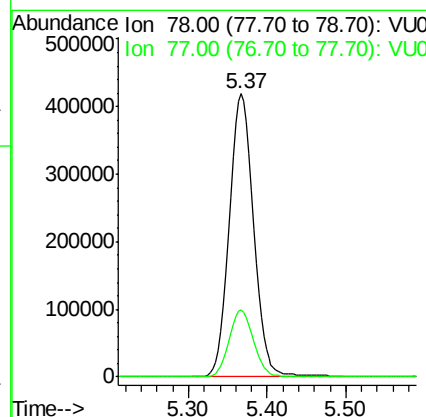
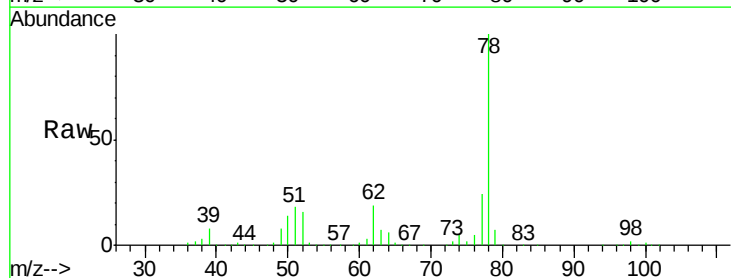
Manual Integrations  
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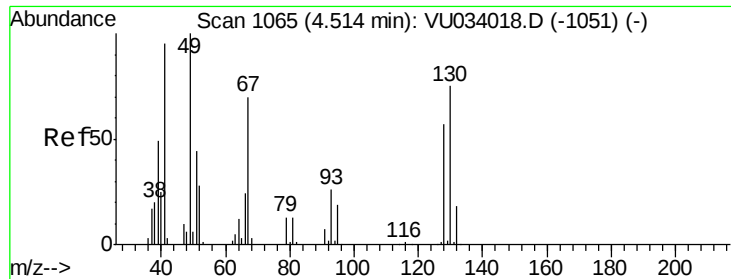
MMDadoda  
9/4/2019 4:56:49 PM



#40  
Benzene  
Concen: 48.429 ug/l  
RT: 5.37 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion   | 78    | Resp  | 895636 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 23.8  | 19.0  | 28.6   |





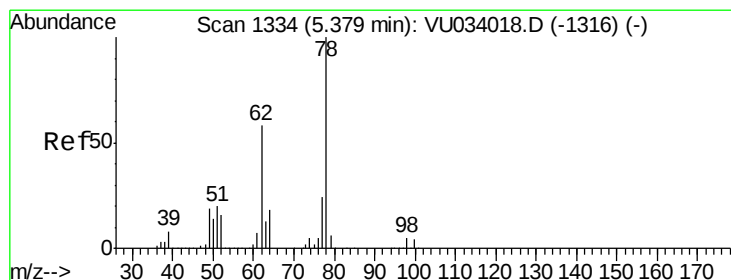
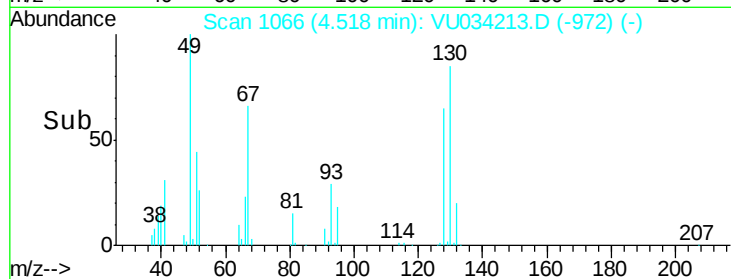
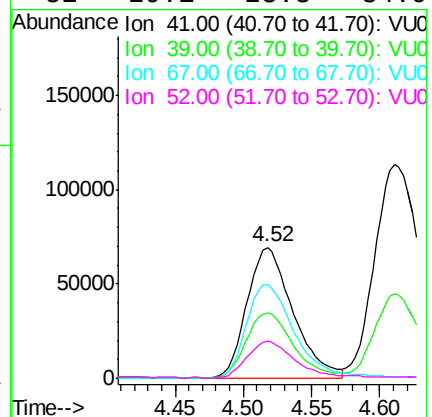
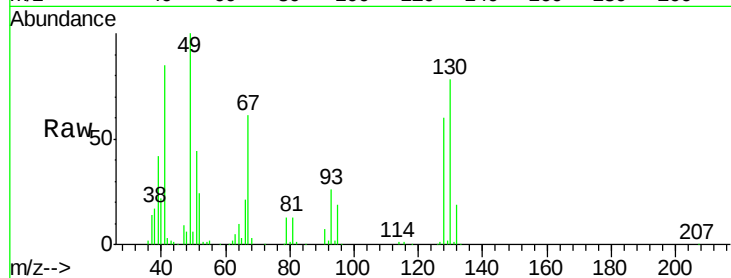
#41  
Methacrylonitrile  
Concen: 46.036 ug/l  
RT: 4.52 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 51.1  | 42.1  | 63.1  |
| 67      | 75.9  | 61.0  | 91.4  |
| 52      | 29.1  | 23.3  | 34.9  |

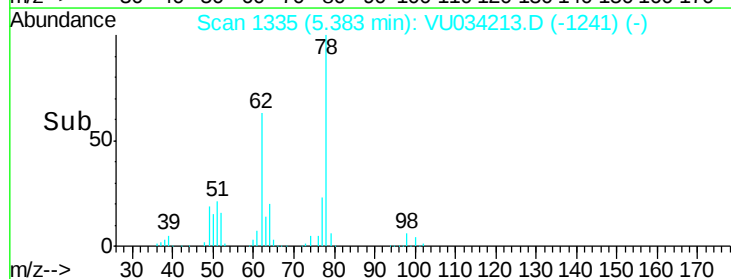
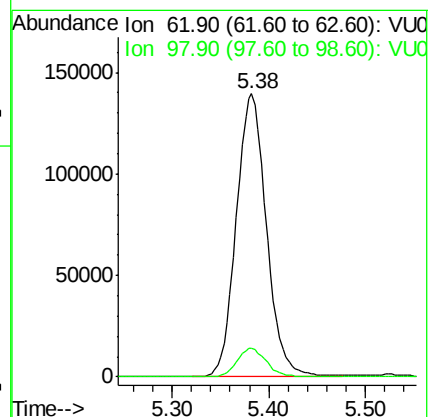
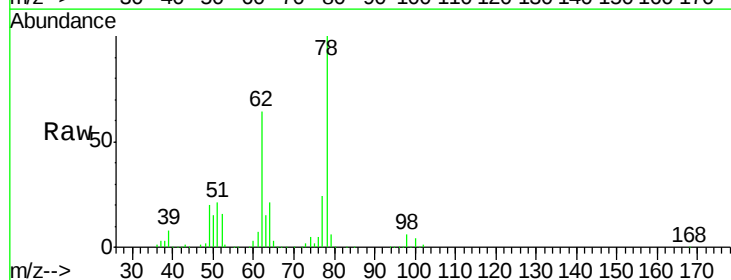
Manual Integrations  
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9/4/2019 4:56:49 PM



#42  
1,2-Dichloroethane  
Concen: 47.427 ug/l  
RT: 5.38 min Scan# 1335  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 9.9   | 0.0   | 18.2  |





#43

Isopropyl Acetate

Concen: 44.377 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

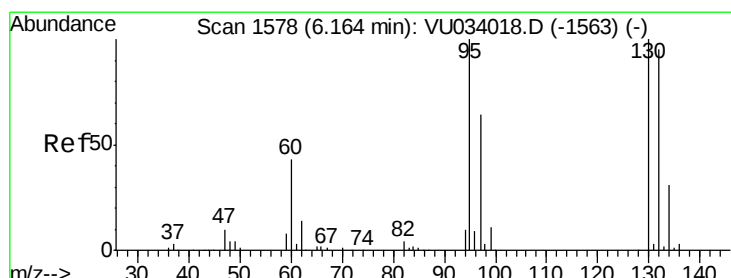
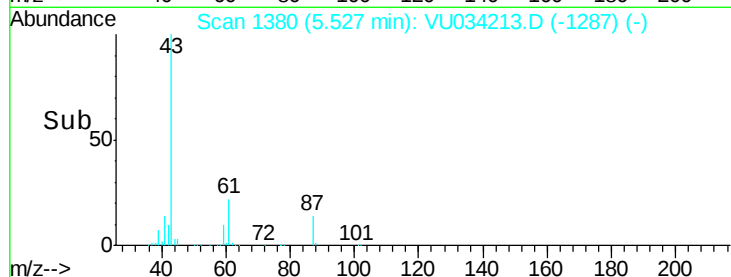
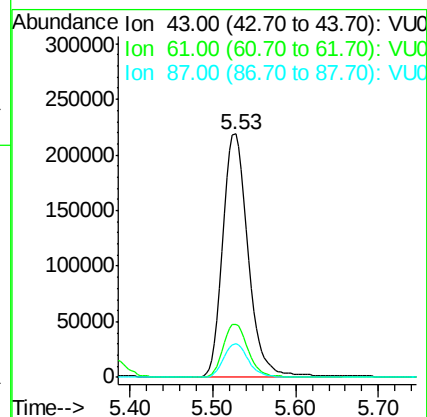
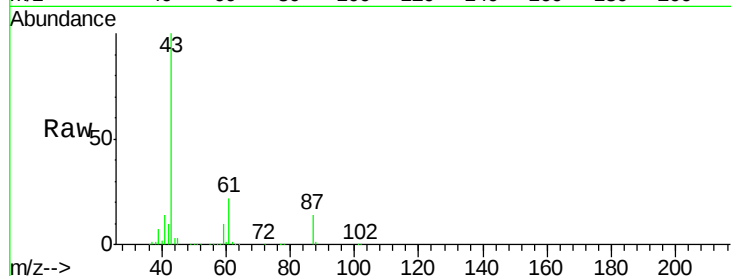
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 462123 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 61       | 21.5  | 17.2  | 25.8   |
| 87       | 13.7  | 10.8  | 16.2   |

Manual Integrations  
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#44

Trichloroethene

Concen: 49.274 ug/l

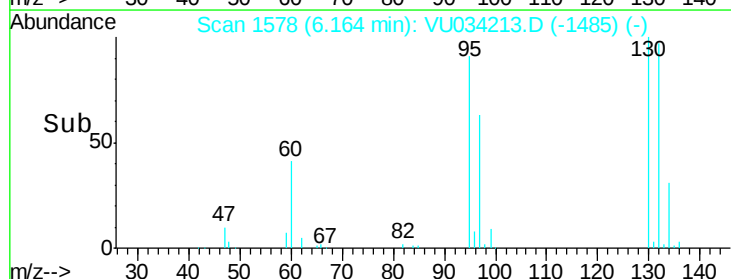
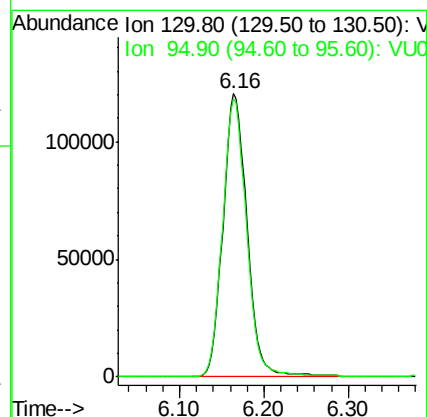
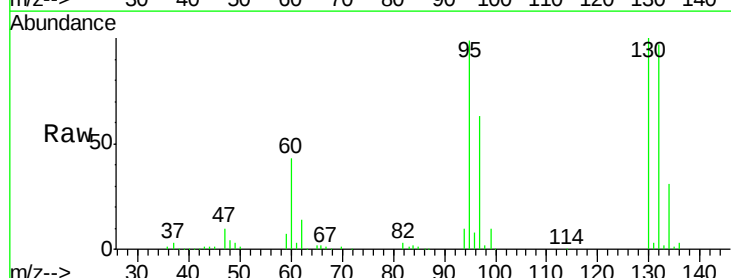
RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 239298 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 98.5  | 0.0   | 199.6  |





#45

1,2-Dichloropropane

Concen: 49.410 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 251544

Ion Ratio Lower Upper

63 100

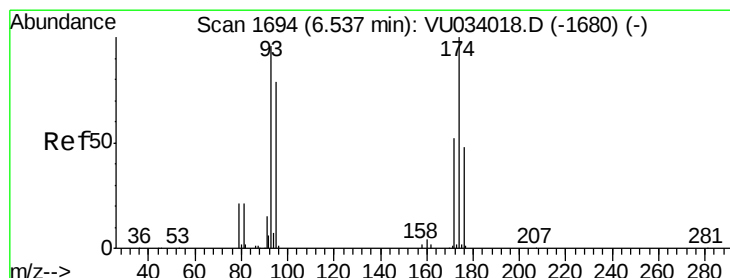
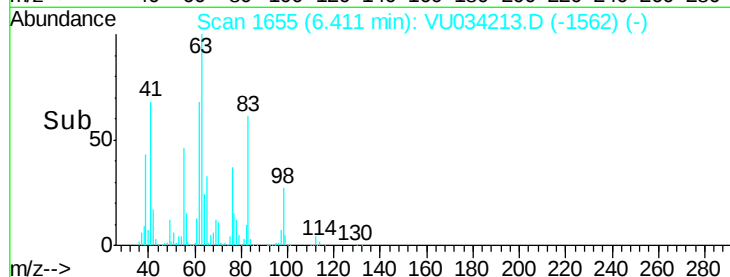
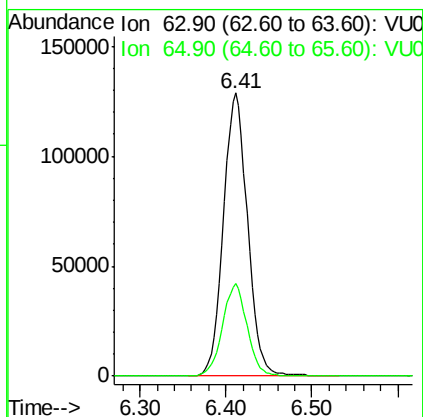
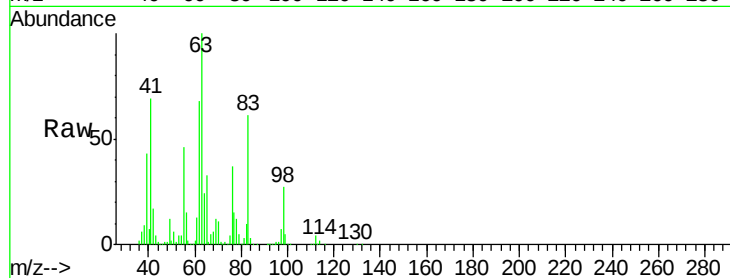
65 32.5 25.4 38.2

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#46

Dibromomethane

Concen: 47.751 ug/l

RT: 6.54 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

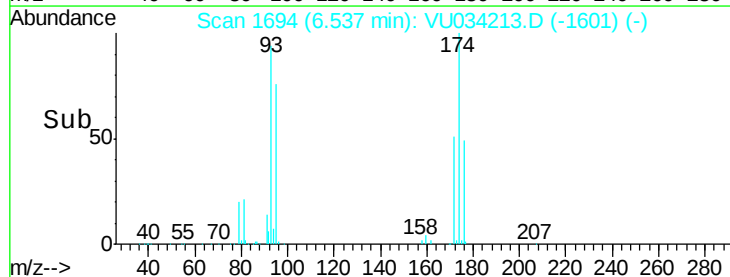
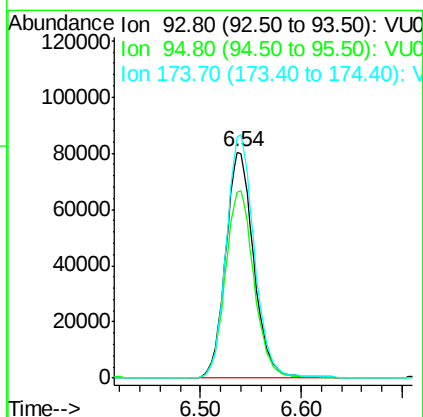
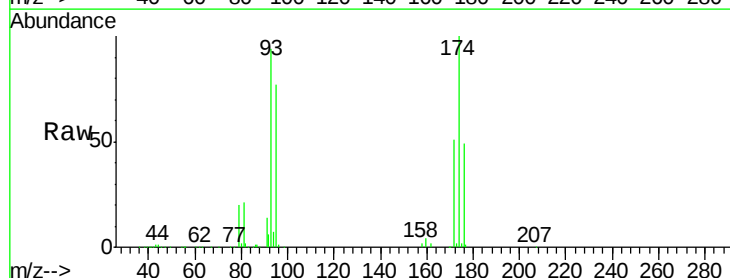
Tgt Ion: 93 Resp: 156617

Ion Ratio Lower Upper

93 100

95 84.1 66.7 100.1

174 107.1 84.9 127.3





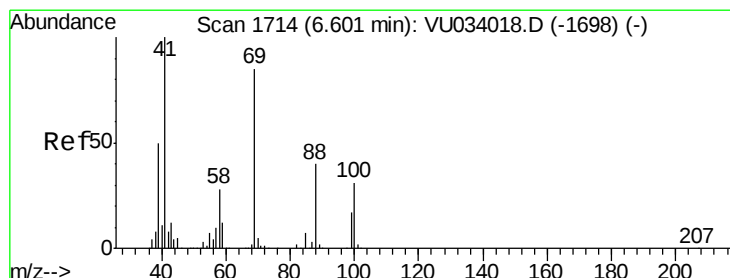
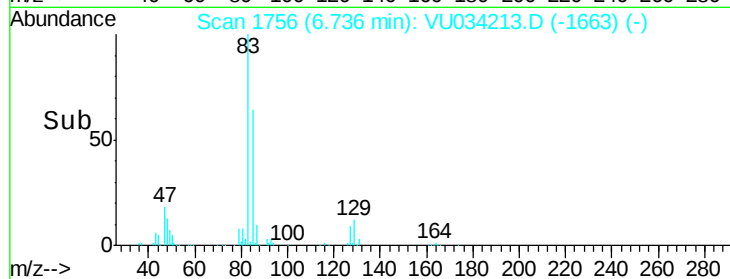
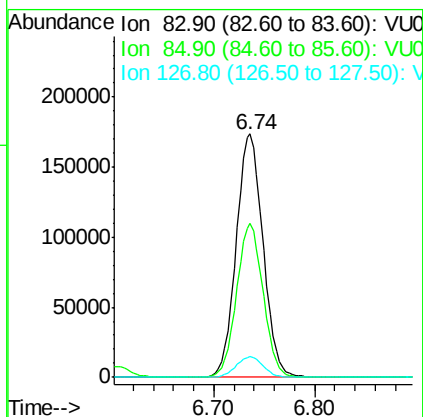
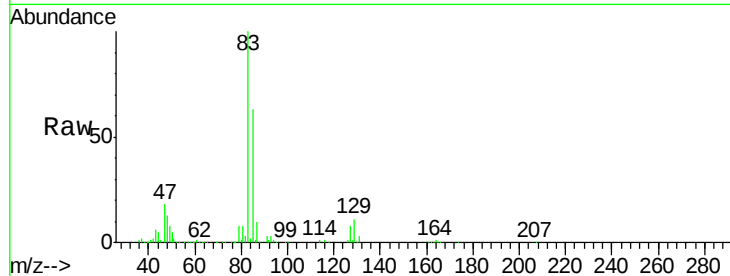
#47  
Bromodichloromethane  
Concen: 49.938 ug/l  
RT: 6.74 min Scan# 1756  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.0  | 51.2  | 76.8  |
| 127     | 8.4   | 7.0   | 10.6  |

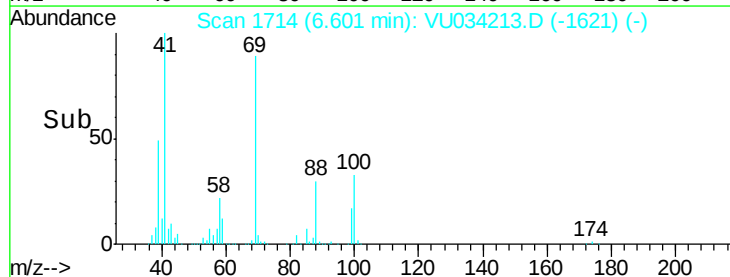
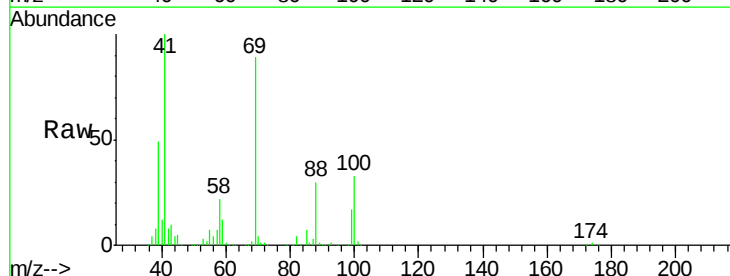
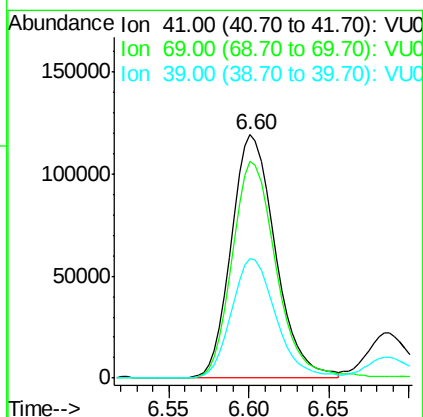
Manual Integrations  
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9/4/2019 4:56:49 PM



#48  
Methyl methacrylate  
Concen: 44.307 ug/l  
RT: 6.60 min Scan# 1714  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 90.4  | 69.5  | 104.3 |
| 39      | 49.3  | 40.3  | 60.5  |





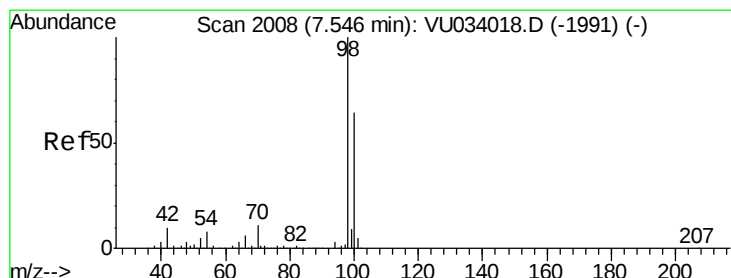
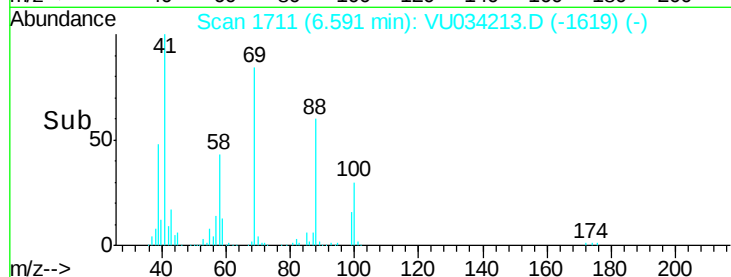
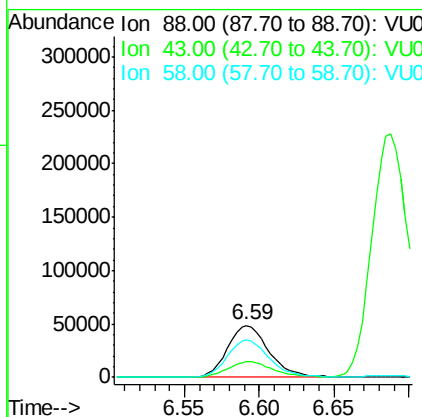
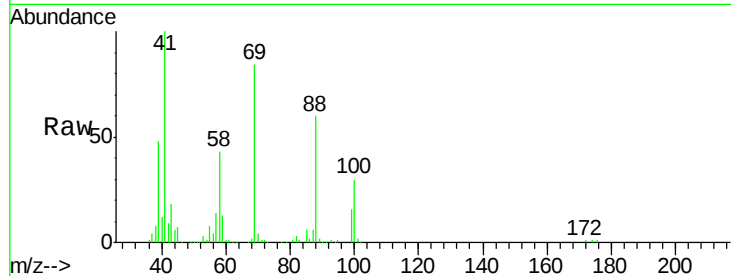
#49  
1,4-Dioxane  
Concen: 725.190 ug/l  
RT: 6.59 min Scan# 1711  
Delta R.T. -0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 31.2  | 24.8  | 37.2  |
| 58      | 75.1  | 59.3  | 88.9  |

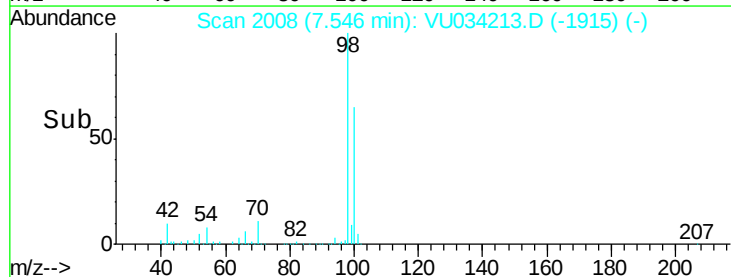
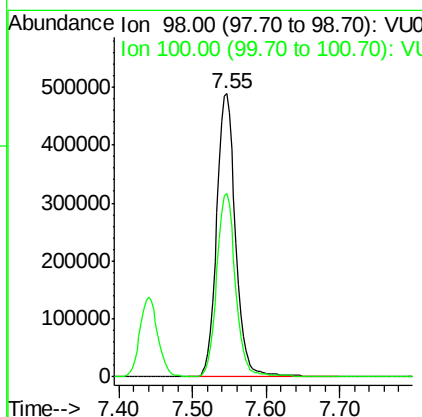
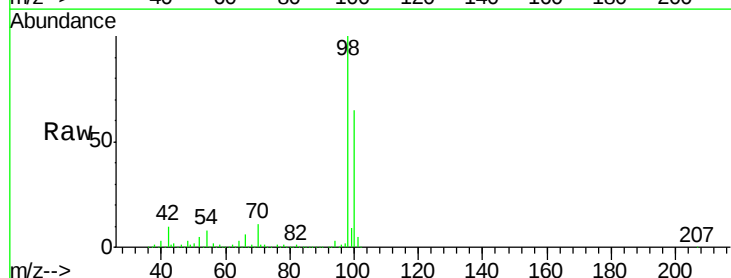
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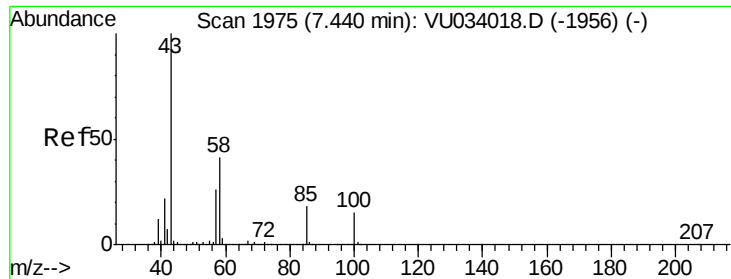
MMDadoda  
9/4/2019 4:56:49 PM



#50  
Toluene-d8  
Concen: 51.764 ug/l  
RT: 7.55 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.5  | 50.3  | 75.5  |





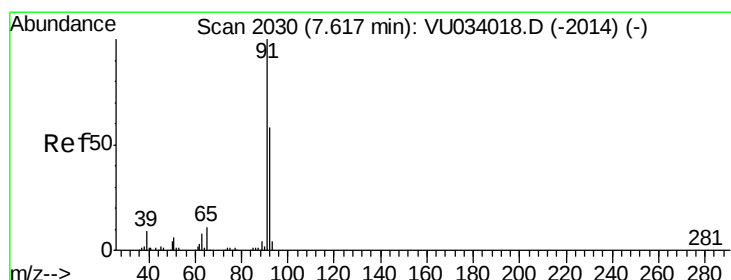
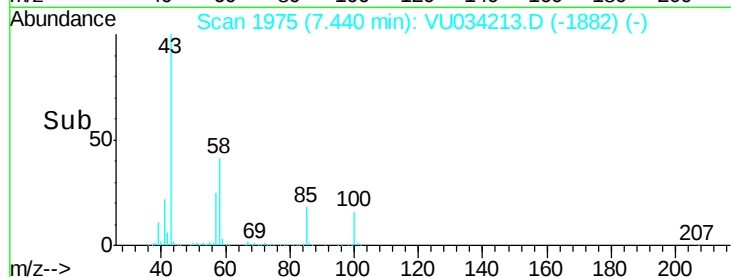
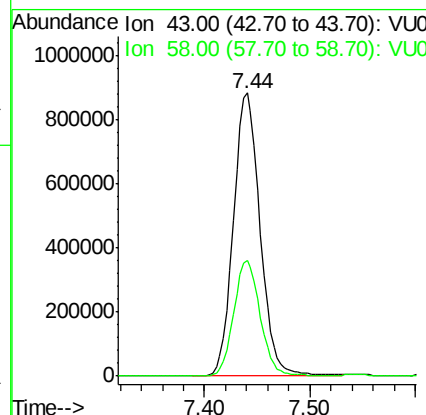
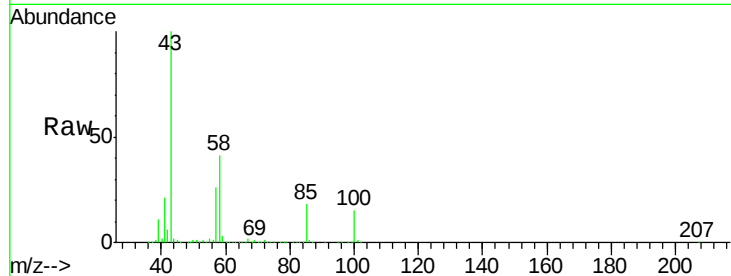
#51  
4-Methyl-2-Pentanone  
Concen: 214.076 ug/l  
RT: 7.44 min Scan# 1975  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

Tot Ion: 43 Resp: 1539582  
Ion Ratio Lower Upper  
43 100  
58 40.8 32.2 48.4

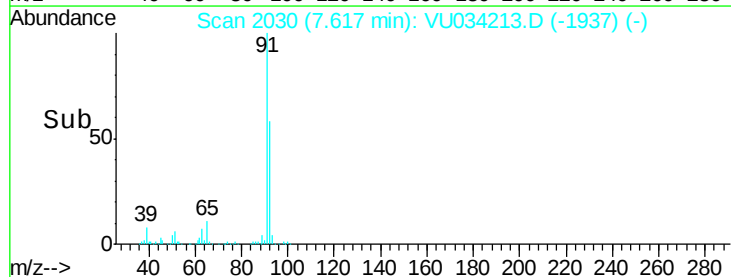
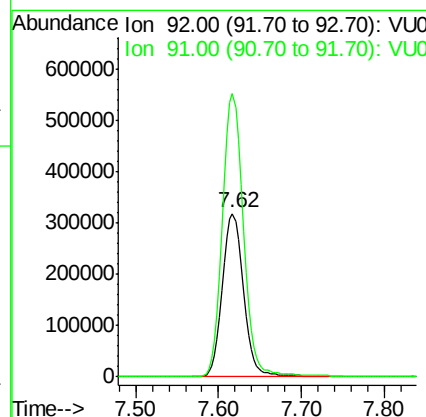
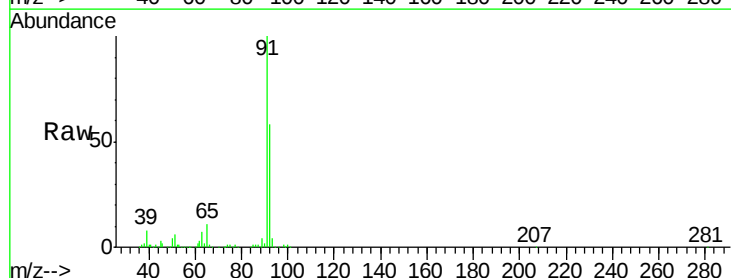
Manual Integrations  
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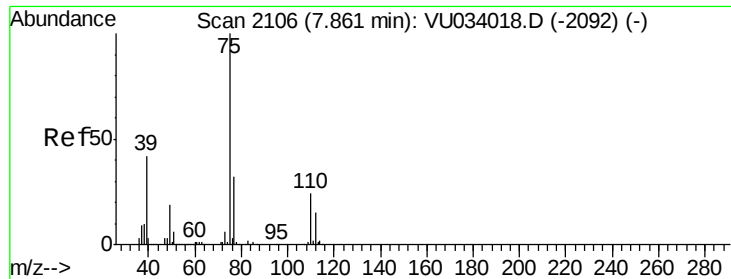
MMDadoda  
9/4/2019 4:56:49 PM



#52  
Toluene  
Concen: 49.739 ug/l  
RT: 7.62 min Scan# 2030  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Tgt Ion: 92 Resp: 566662  
Ion Ratio Lower Upper  
92 100  
91 173.3 138.3 207.5





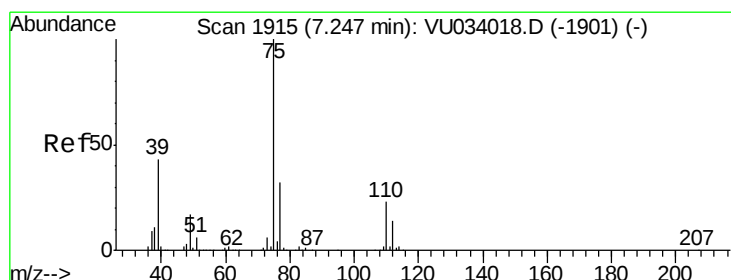
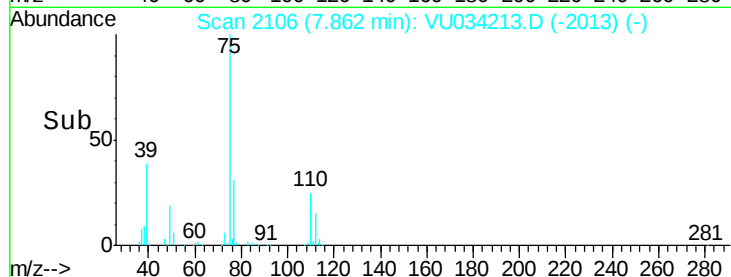
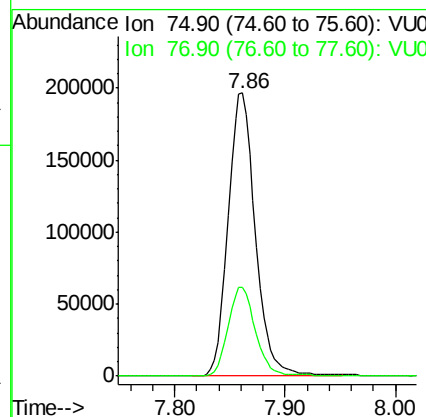
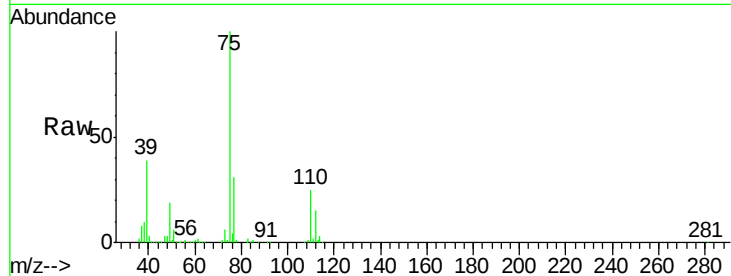
#53  
t-1,3-Dichloropropene  
Concen: 47.361 ug/l  
RT: 7.86 min Scan# 2106  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.3  | 25.4  | 38.0  |

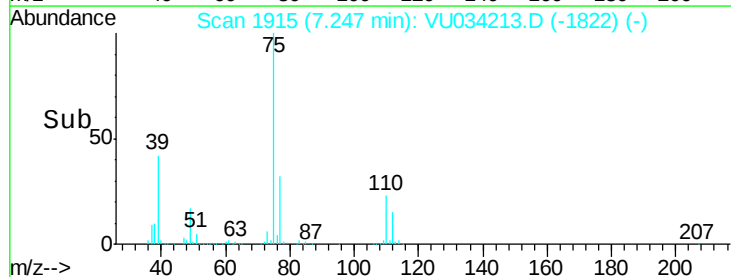
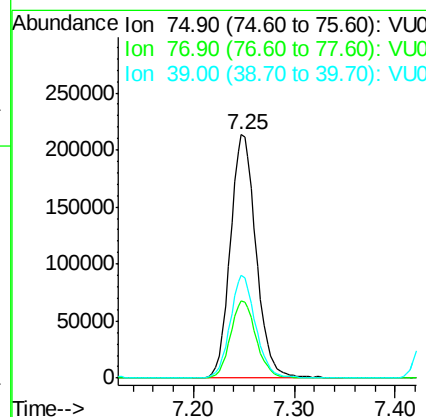
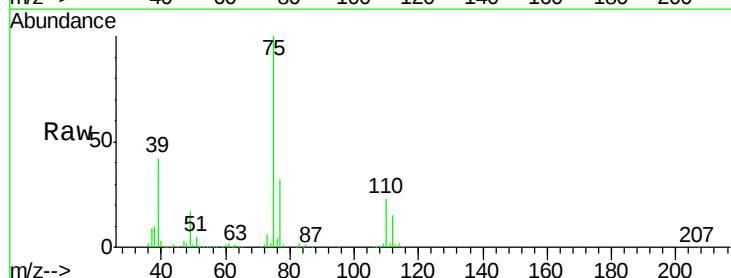
Manual Integrations  
APPROVED

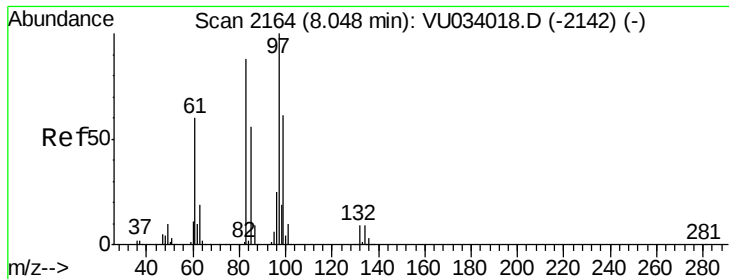
MMDadoda  
9/4/2019 4:56:49 PM



#54  
cis-1,3-Dichloropropene  
Concen: 48.960 ug/l  
RT: 7.25 min Scan# 1915  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.6  | 25.2  | 37.8  |
| 39      | 41.9  | 34.6  | 51.8  |





#55

1,1,2-Trichloroethane

Concen: 48.603 ug/l

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

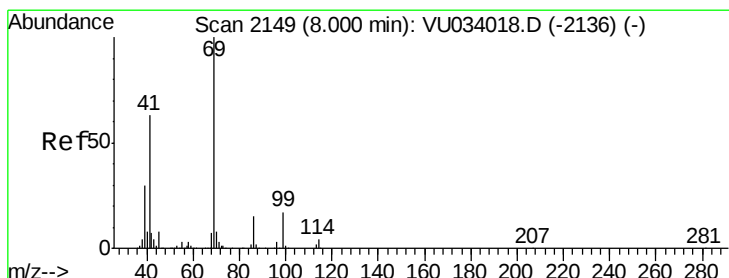
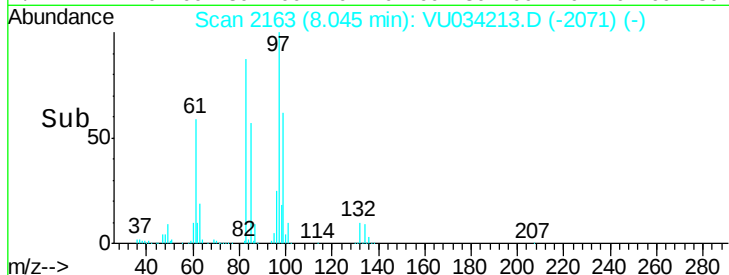
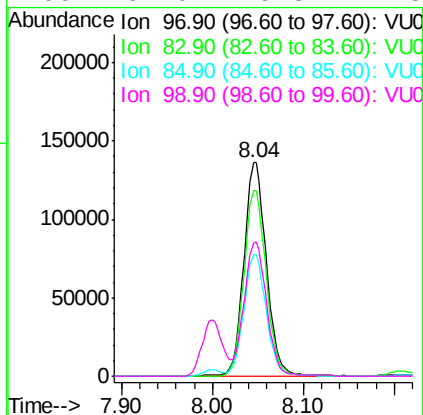
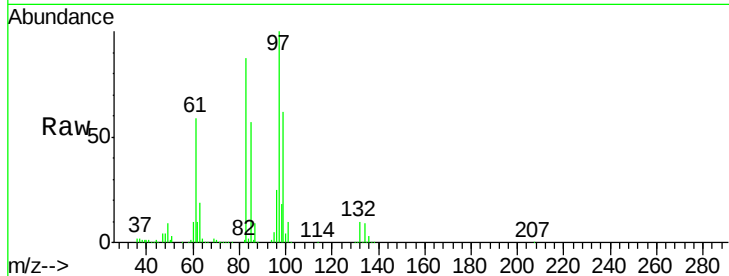
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 234219 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 86.9  | 70.1  | 105.1  |
| 85       | 56.6  | 45.0  | 67.4   |
| 99       | 62.0  | 49.8  | 74.8   |

Manual Integrations  
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#56

Ethyl methacrylate

Concen: 42.116 ug/l

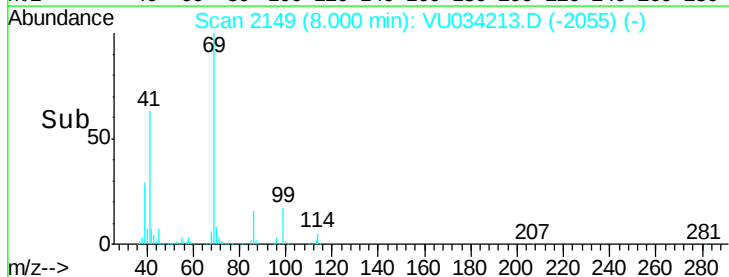
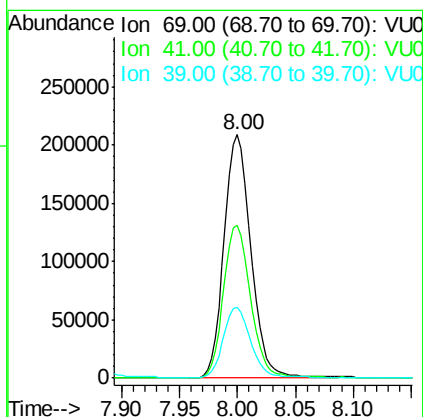
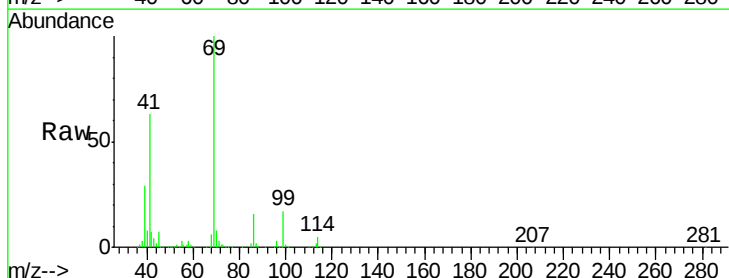
RT: 8.00 min Scan# 2149

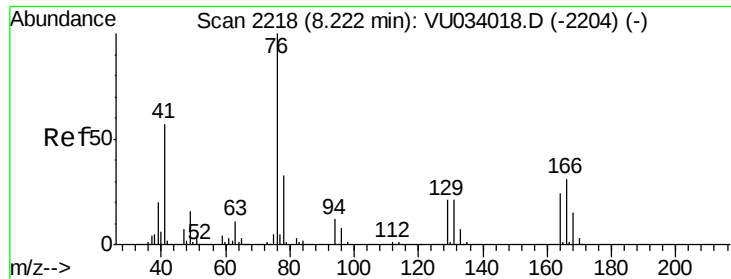
Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 335405 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 63.3  | 50.7  | 76.1   |
| 39       | 29.5  | 24.2  | 36.2   |





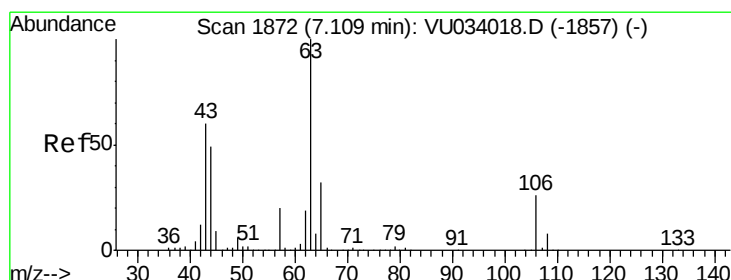
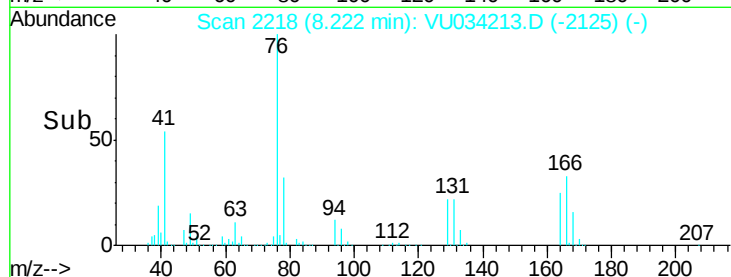
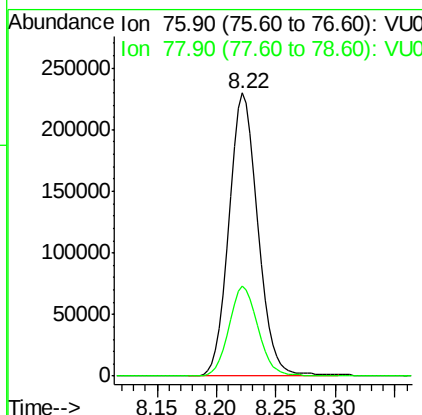
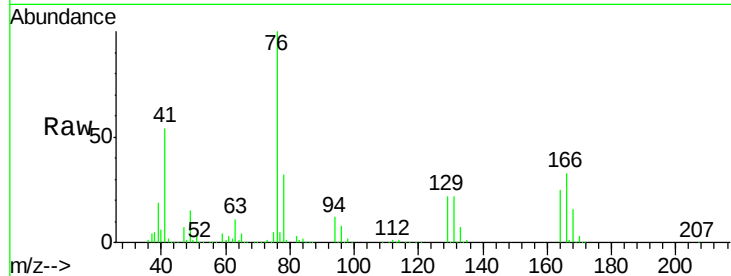
#57  
 1,3-Dichloropropane  
 Concen: 47.339 ug/l  
 RT: 8.22 min Scan# 2218  
 Delta R.T. 0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

Tot Ion: 76 Resp: 387348  
 Ion Ratio Lower Upper  
 76 100  
 78 31.9 26.2 39.4

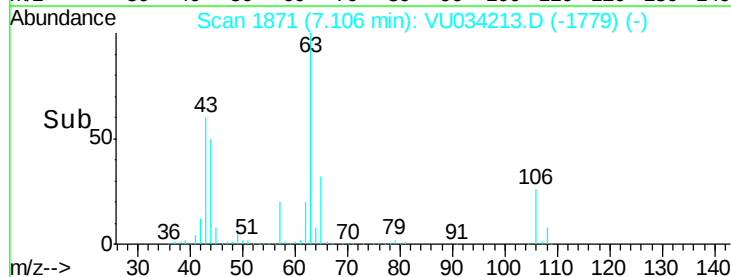
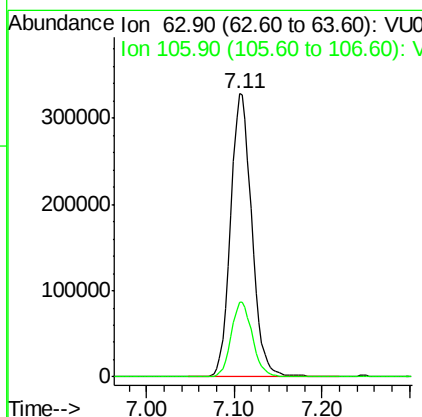
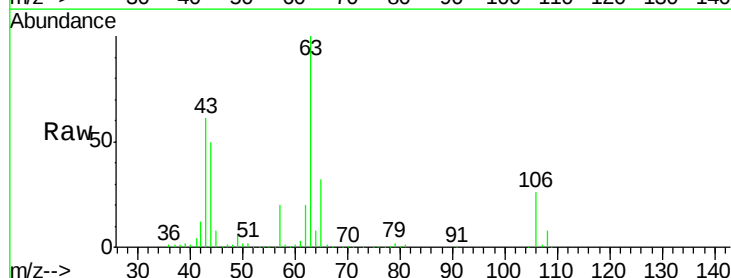
Manual Integrations  
 APPROVED

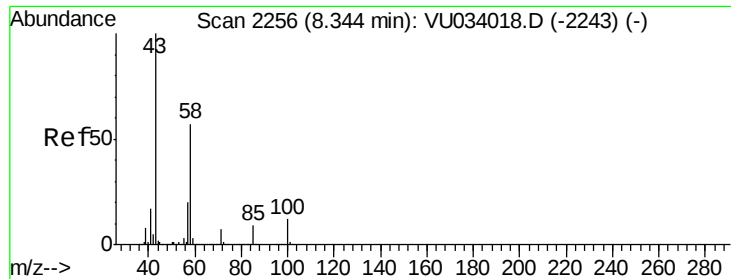
MMDadoda  
 9/4/2019 4:56:49 PM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 207.549 ug/l  
 RT: 7.11 min Scan# 1871  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

Tgt Ion: 63 Resp: 553327  
 Ion Ratio Lower Upper  
 63 100  
 106 26.3 20.7 31.1





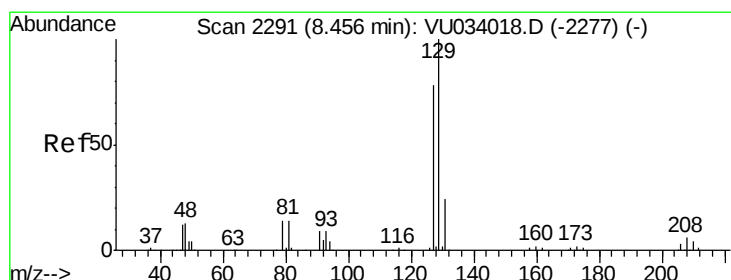
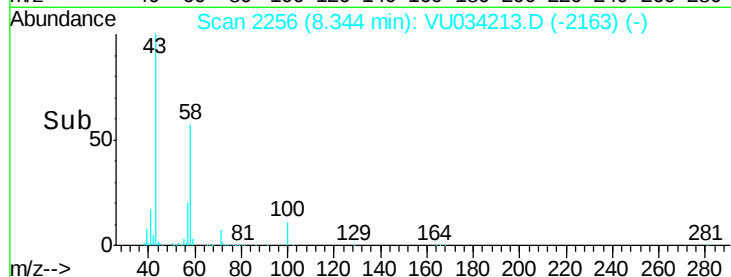
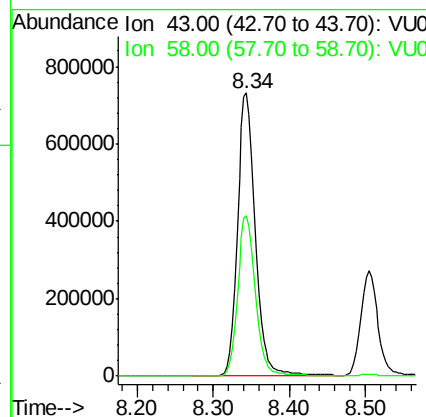
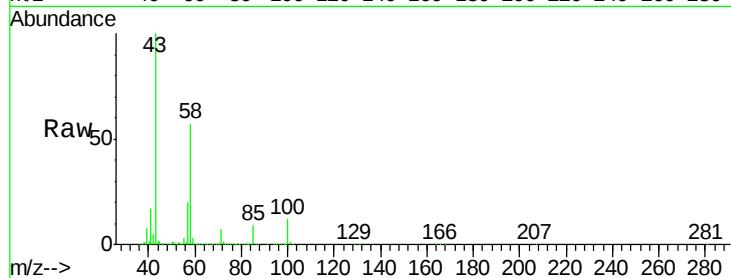
#59  
2-Hexanone  
Concen: 220.234 ug/l  
RT: 8.34 min Scan# 2256  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

Tot Ion: 43 Resp: 1195680  
Ion Ratio Lower Upper  
43 100  
58 56.8 28.4 85.3

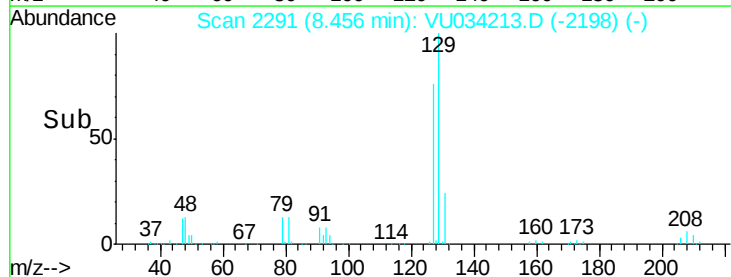
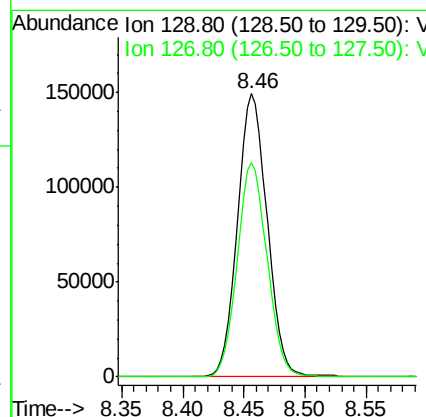
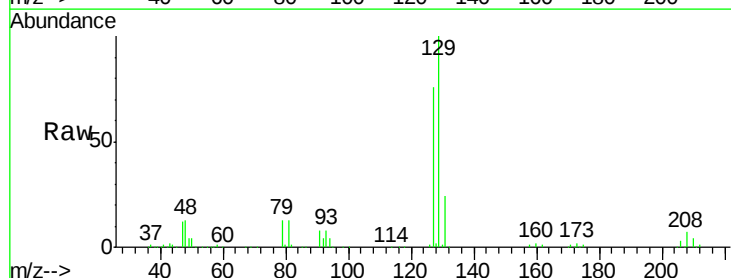
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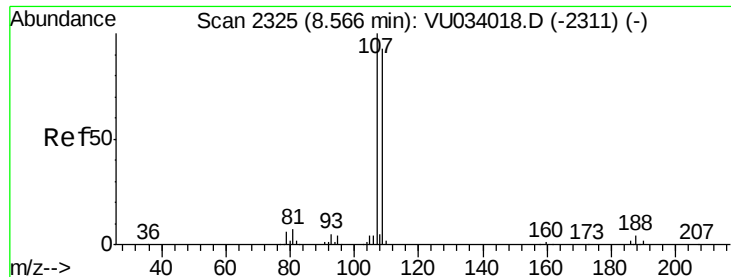
MMDadoda  
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#60  
Dibromochloromethane  
Concen: 48.859 ug/l  
RT: 8.46 min Scan# 2291  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Tgt Ion: 129 Resp: 252741  
Ion Ratio Lower Upper  
129 100  
127 76.1 39.0 116.9





#61

1,2-Dibromoethane

Concen: 45.734 ug/l

RT: 8.57 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 232162

Ion Ratio Lower Upper

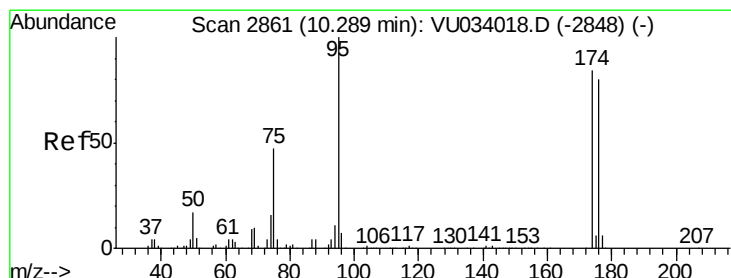
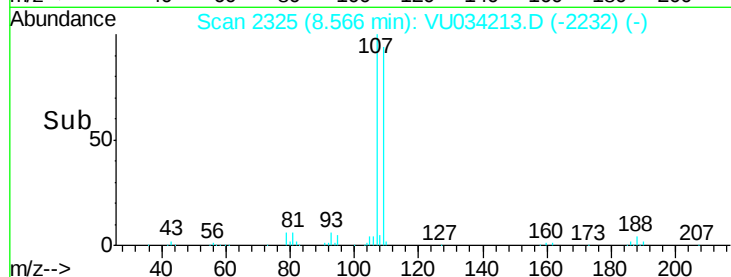
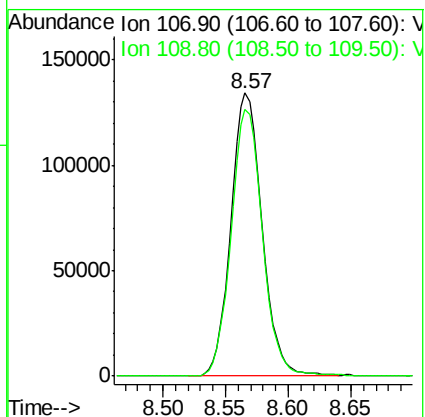
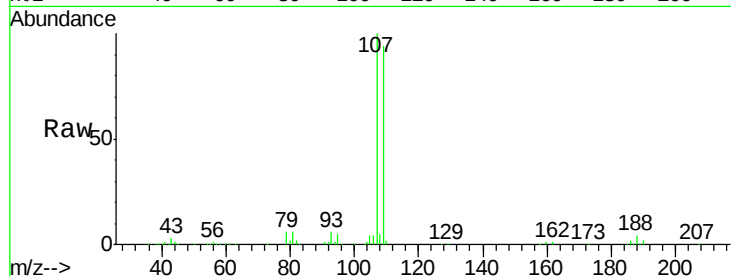
107 100

109 95.0 75.2 112.8

Manual Integrations  
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#62

4-Bromofluorobenzene

Concen: 49.552 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

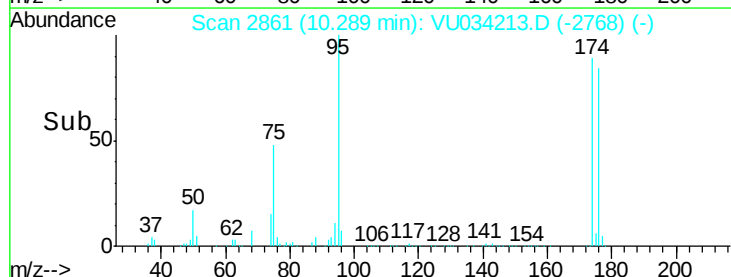
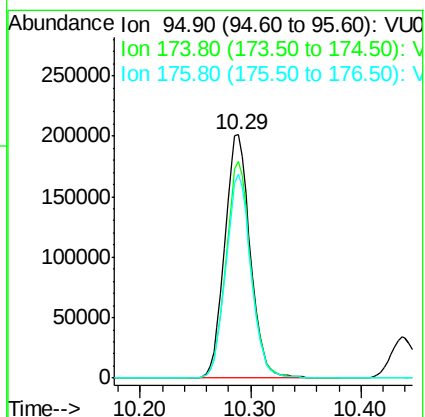
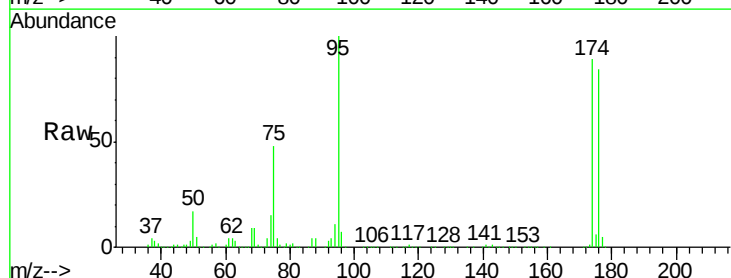
Tgt Ion: 95 Resp: 323499

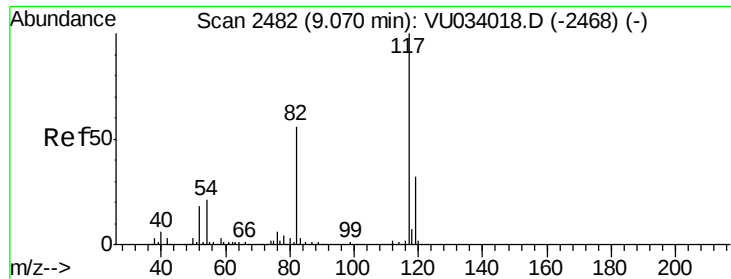
Ion Ratio Lower Upper

95 100

174 86.8 0.0 168.8

176 82.4 0.0 161.8





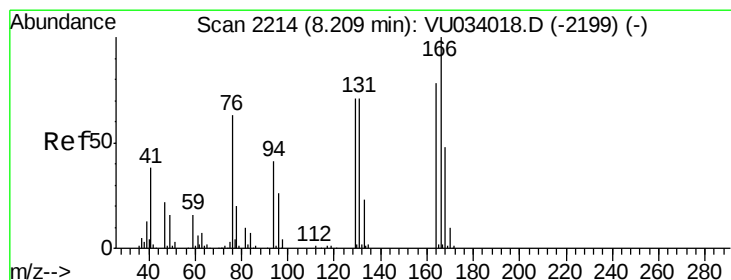
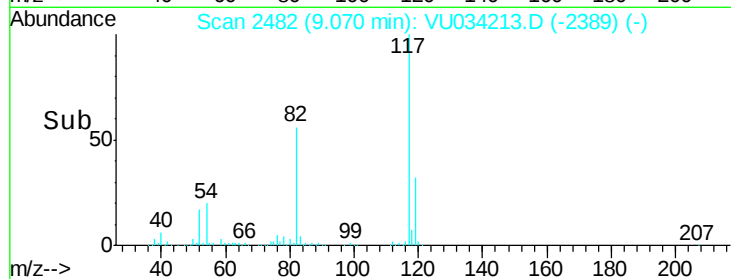
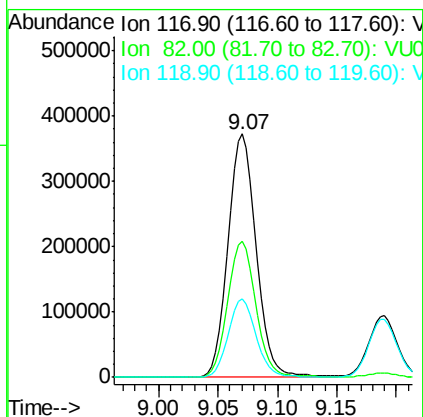
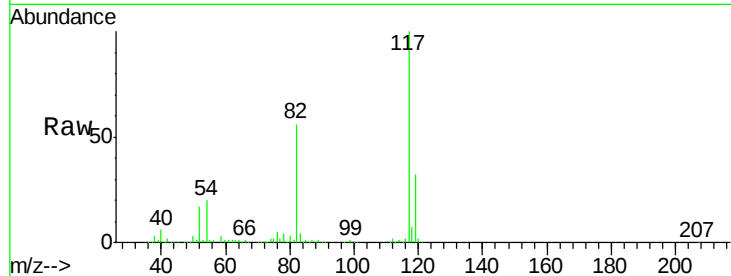
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.07 min Scan# 2482  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.1  | 45.1  | 67.7  |
| 119     | 32.3  | 25.4  | 38.0  |

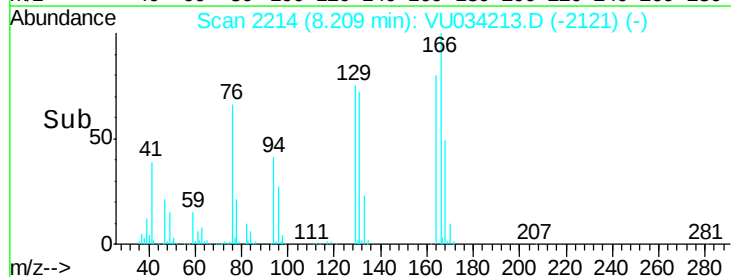
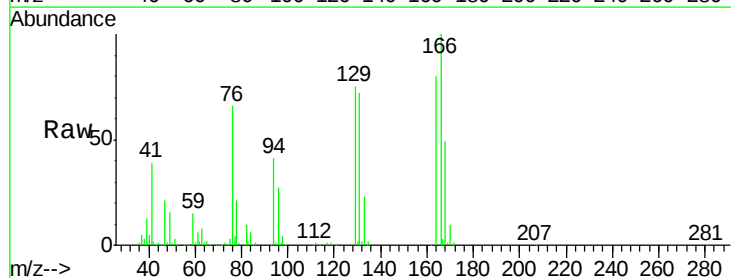
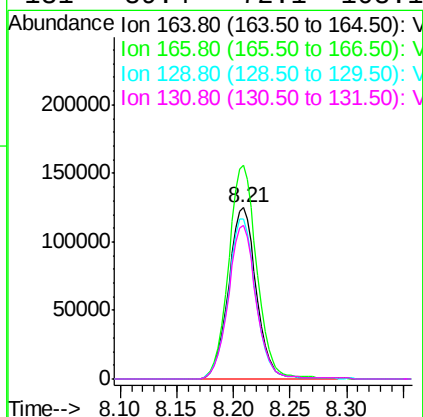
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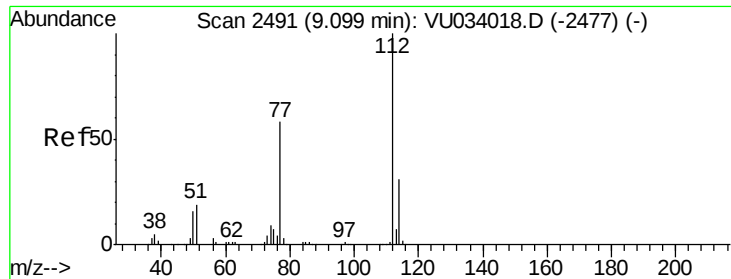
MMDadoda  
9/4/2019 4:56:49 PM



#64  
Tetrachloroethene  
Concen: 51.955 ug/l  
RT: 8.21 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 124.6 | 102.2 | 153.2 |
| 129     | 93.1  | 72.4  | 108.6 |
| 131     | 89.4  | 72.1  | 108.1 |





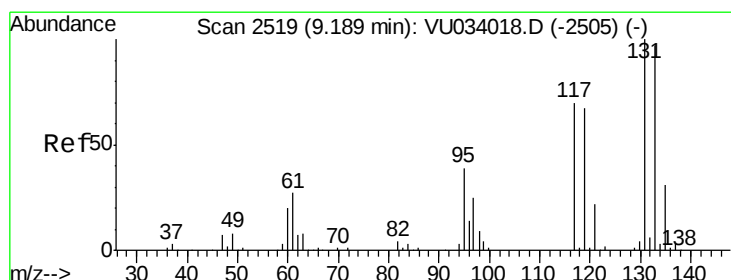
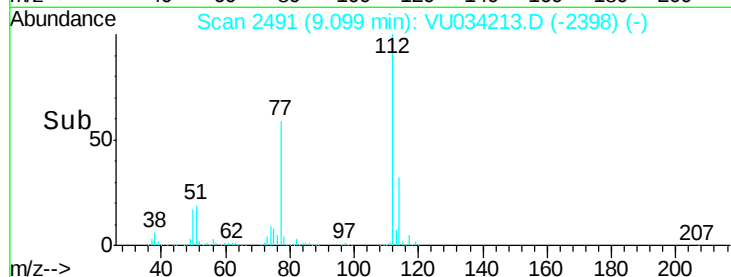
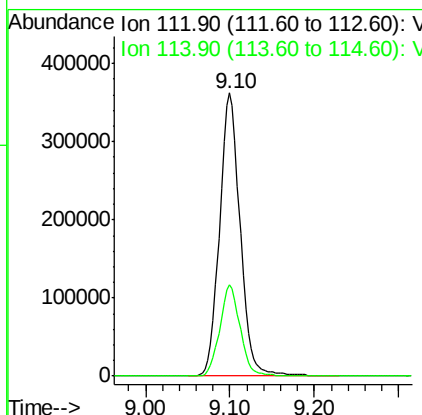
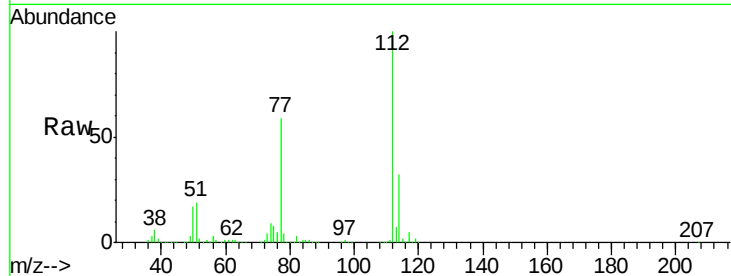
#65  
Chlorobenzene  
Concen: 48.744 ug/l  
RT: 9.10 min Scan# 2491  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.2  | 25.0  | 37.4  |

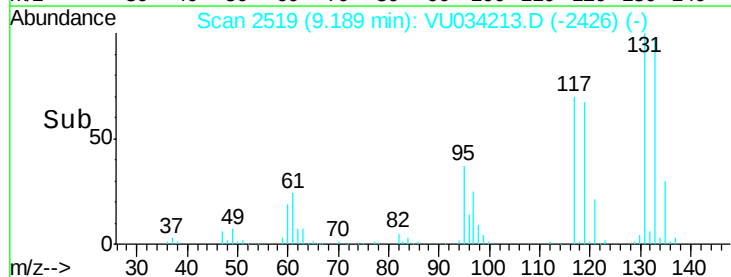
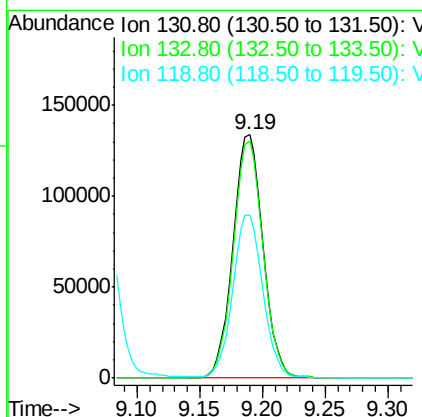
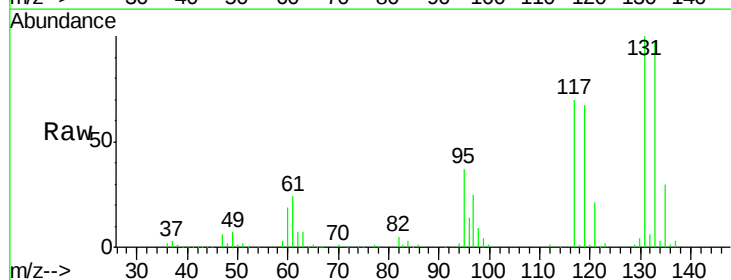
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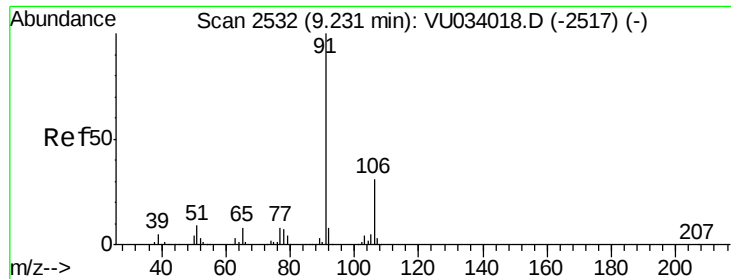
MMDadoda  
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#66  
1,1,1,2-Tetrachloroethane  
Concen: 48.804 ug/l  
RT: 9.19 min Scan# 2519  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 96.2  | 48.4  | 145.2 |
| 119     | 66.4  | 33.6  | 100.6 |





#67

Ethyl Benzene

Concen: 49.827 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1066535

Ion Ratio Lower Upper

91 100

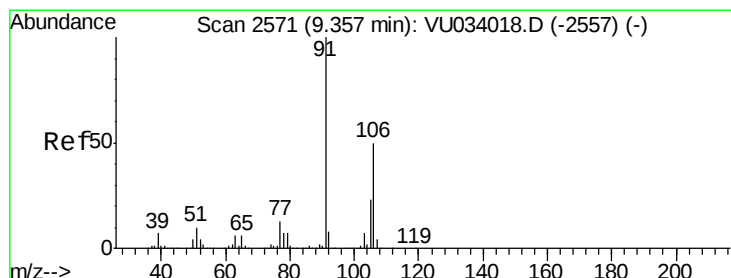
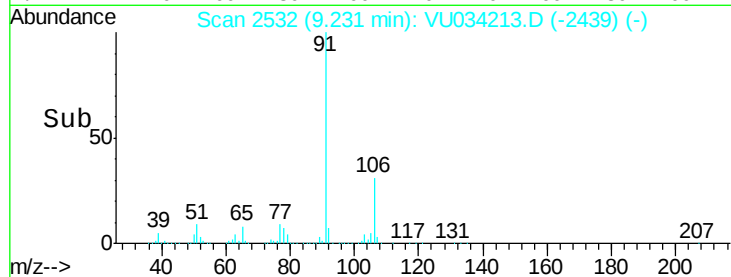
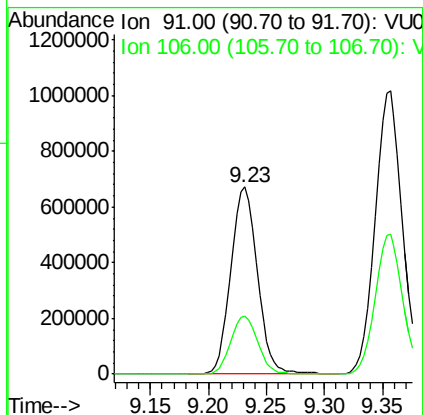
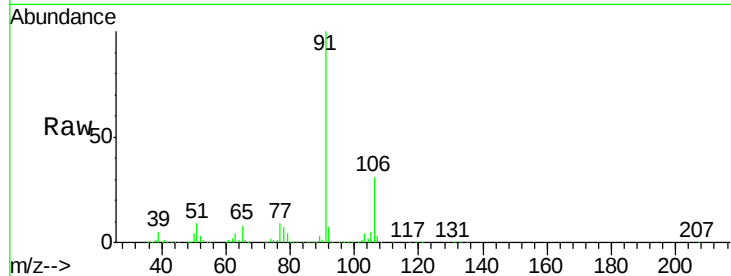
106 31.2 24.9 37.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 102.773 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034213.D

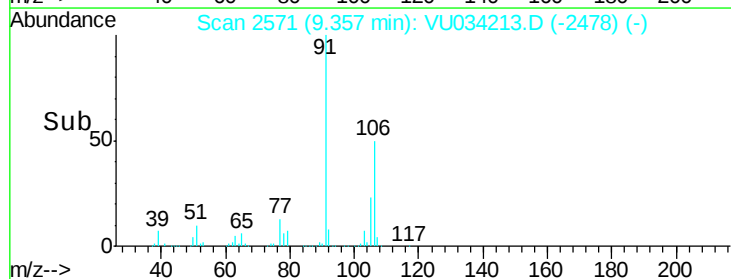
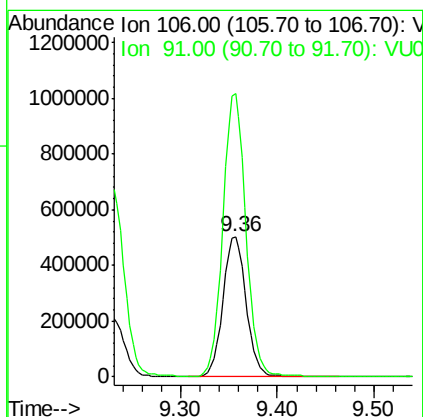
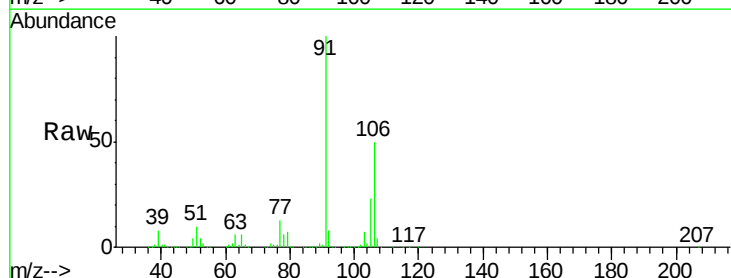
Acq: 03 Sep 2019 09:27

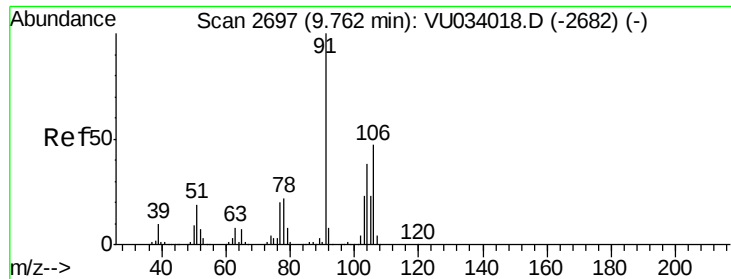
Tgt Ion: 106 Resp: 836456

Ion Ratio Lower Upper

106 100

91 200.9 161.6 242.4





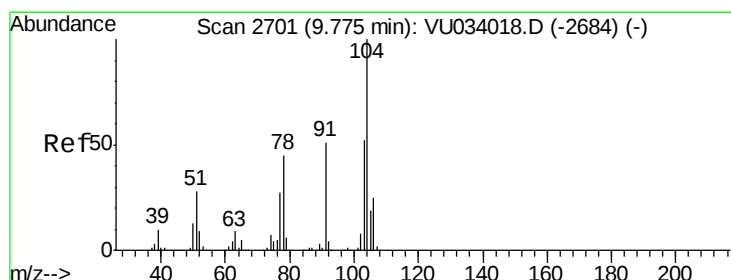
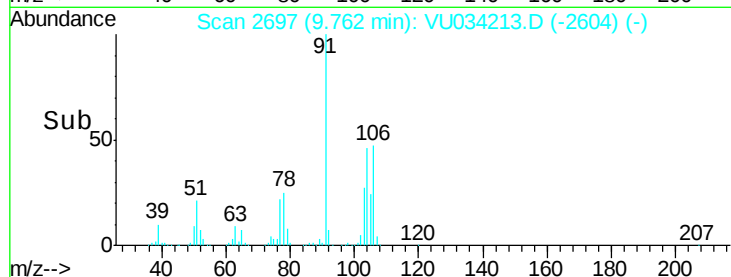
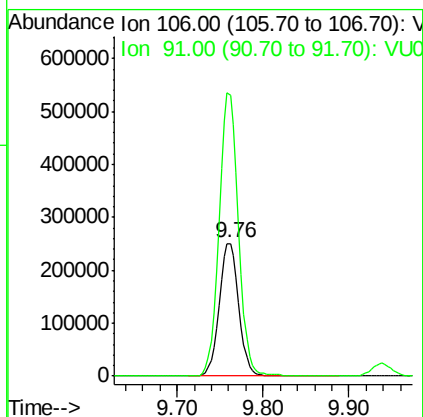
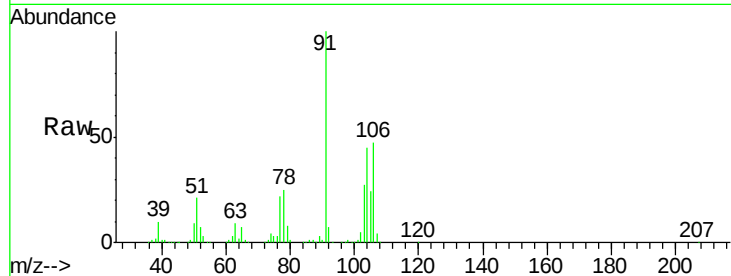
#69  
o-Xylene  
Concen: 50.445 ug/l  
RT: 9.76 min Scan# 2697  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 210.9 | 106.0 | 318.0 |

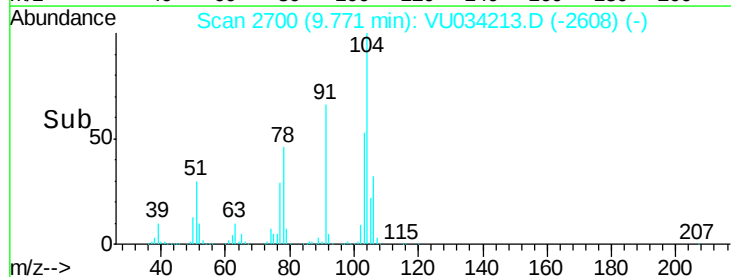
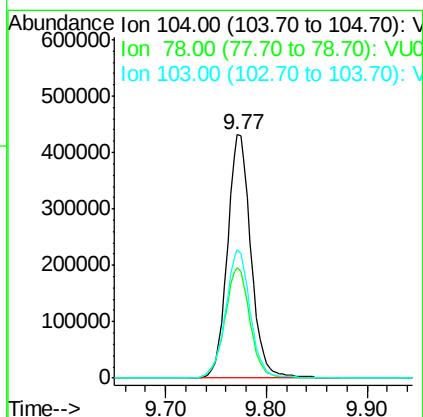
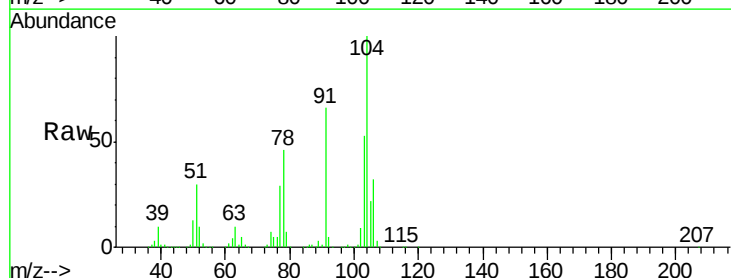
Manual Integrations  
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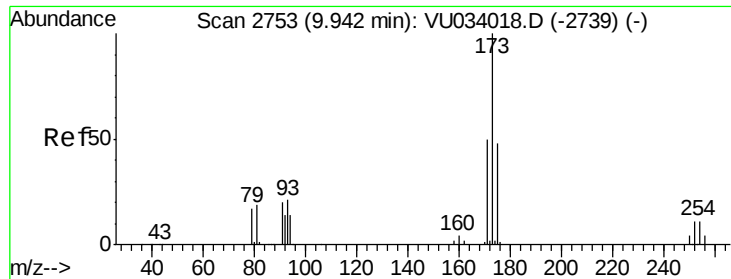
MMDadoda  
9/4/2019 4:56:49 PM



#70  
Styrene  
Concen: 52.546 ug/l  
RT: 9.77 min Scan# 2700  
Delta R.T. -0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 48.6  | 39.0  | 58.4  |
| 103     | 55.2  | 44.0  | 66.0  |





#71

Bromoform

Concen: 46.865 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 186437

Ion Ratio Lower Upper

173 100

175 48.1 24.6 73.6

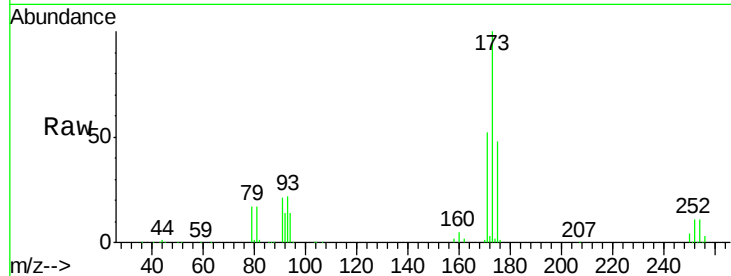
254 0.2 0.0 0.0#

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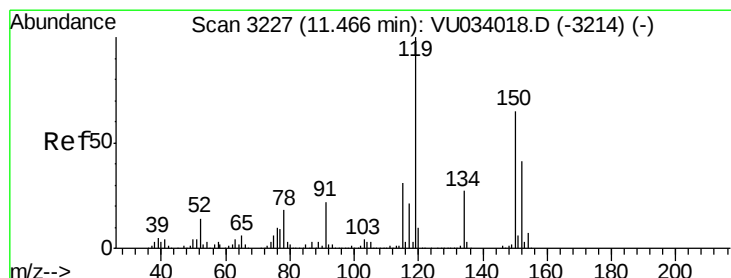
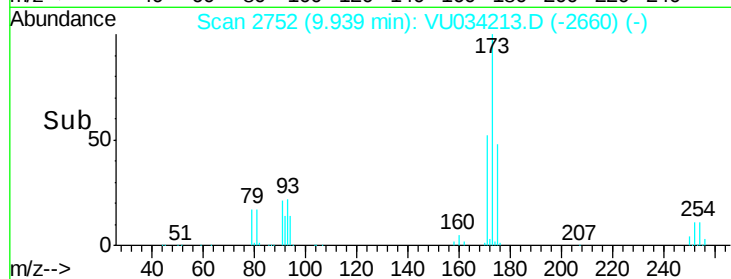
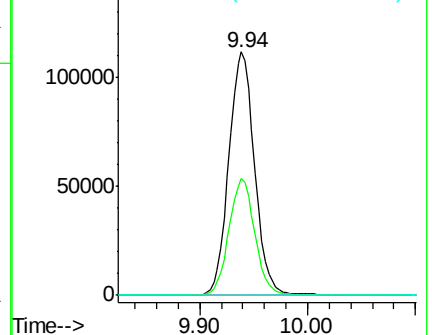
9/4/2019 4:56:49 PM



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: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

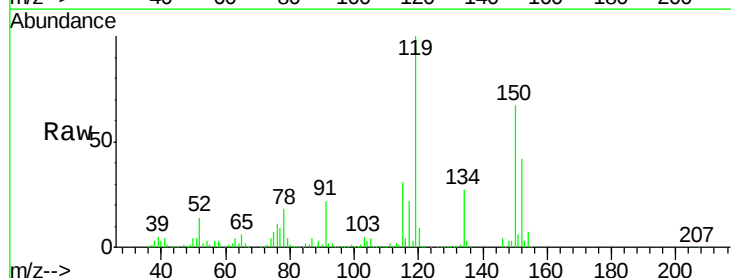
Tgt Ion:152 Resp: 333629

Ion Ratio Lower Upper

152 100

115 78.2 41.1 123.3

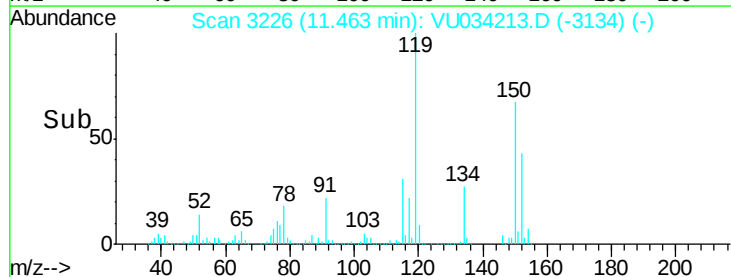
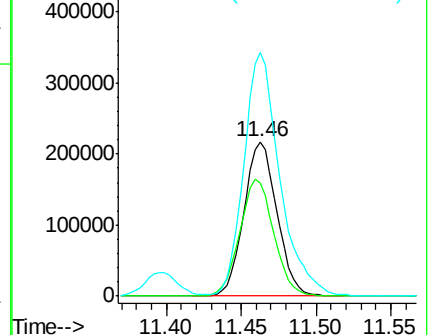
150 171.7 0.0 348.8

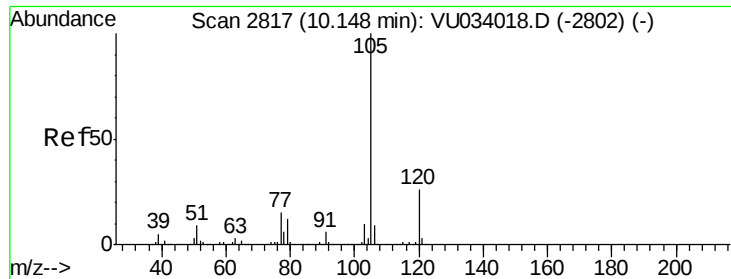


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 47.807 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1071331

Ion Ratio Lower Upper

105 100

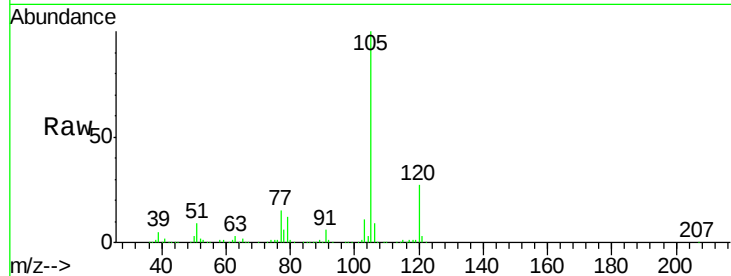
120 26.8 13.3 39.8

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

800000

600000

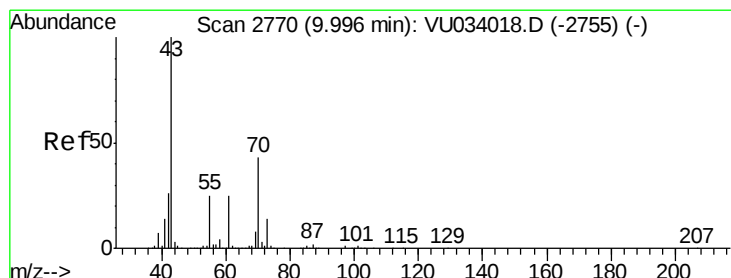
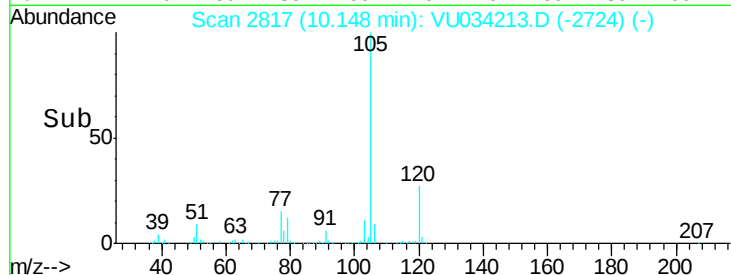
400000

200000

0

10.10 10.15 10.20

Time-->



#74

N-ethyl acetate

Concen: 44.553 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Tgt Ion: 43 Resp: 419921

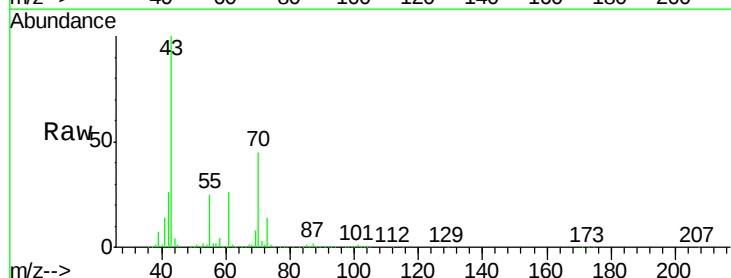
Ion Ratio Lower Upper

43 100

70 44.3 35.2 52.8

55 25.7 20.5 30.7

61 25.3 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

400000

300000

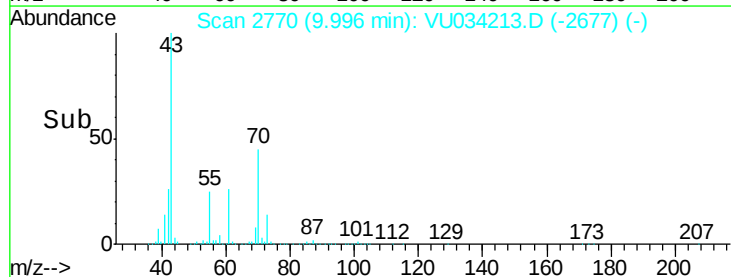
200000

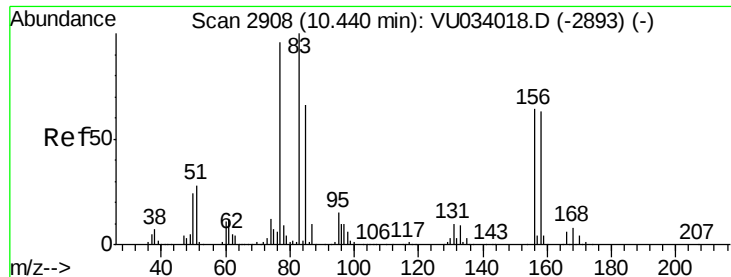
100000

0

9.90 10.00 10.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 42.624 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

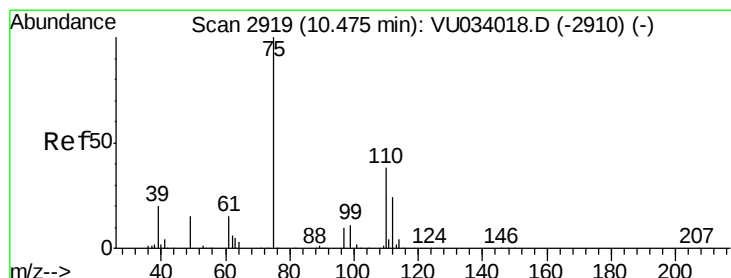
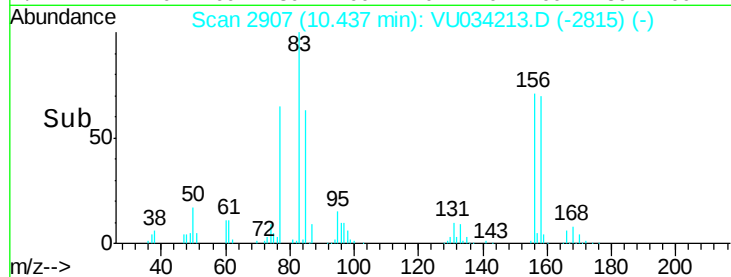
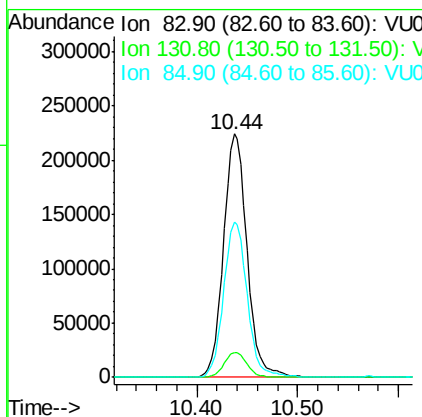
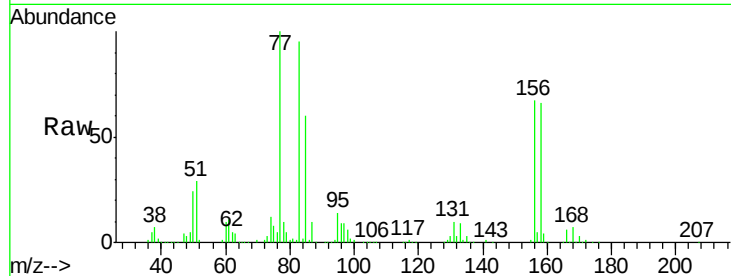
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 365598 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 9.9   | 5.0   | 14.9   |
| 85        | 64.3  | 32.2  | 96.6   |

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#76

1,2,3-Trichloropropane

Concen: 41.884 ug/l m

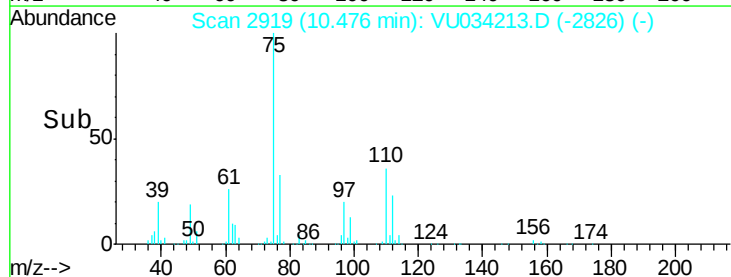
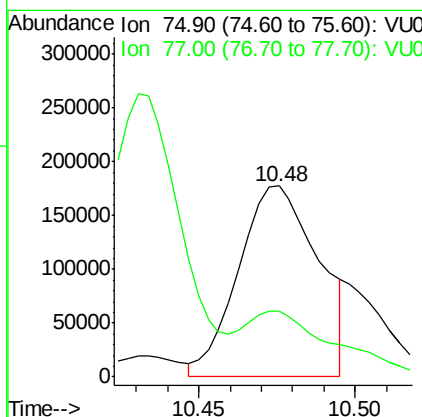
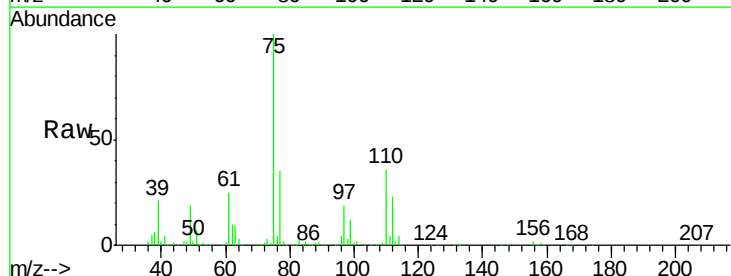
RT: 10.48 min Scan# 2919

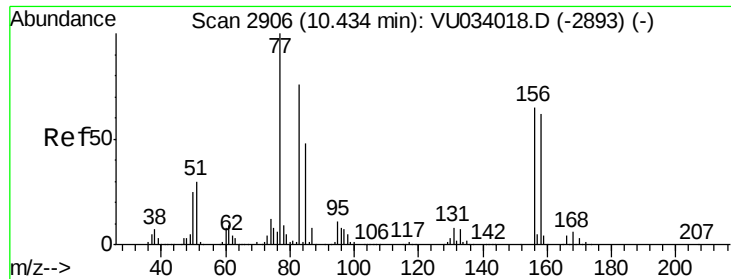
Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 314945 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 40.0  | 20.1  | 60.2   |





#77

Bromobenzene

Concen: 46.383 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

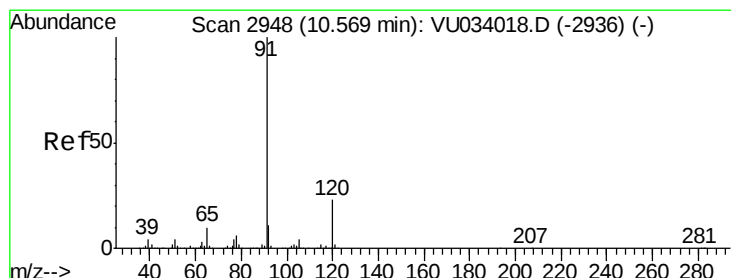
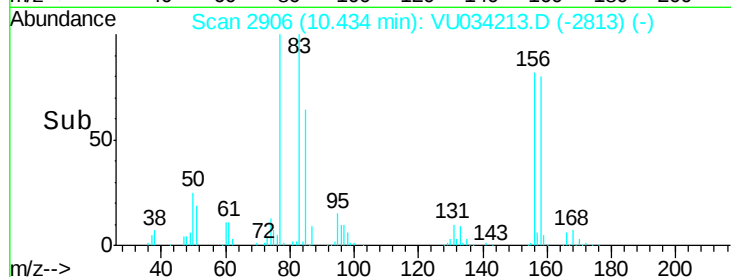
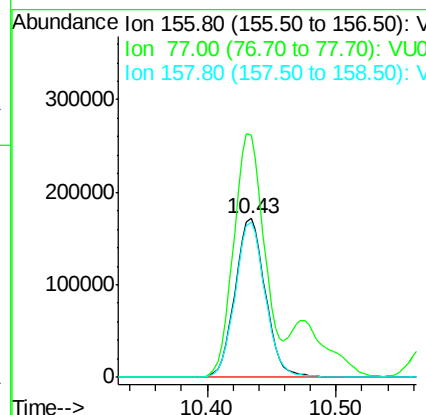
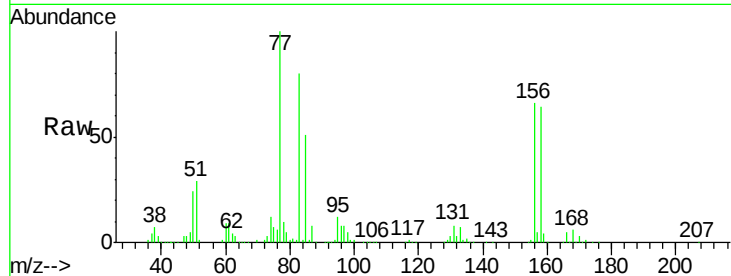
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 279607 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 156.2 | 76.8  | 230.5  |
| 158       | 97.7  | 48.4  | 145.0  |

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#78

n-propylbenzene

Concen: 48.909 ug/l

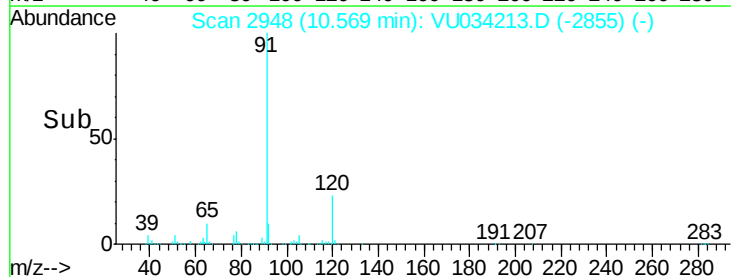
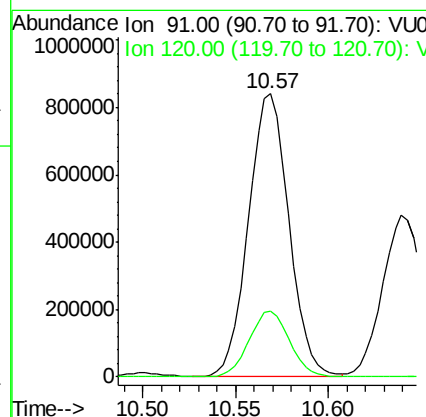
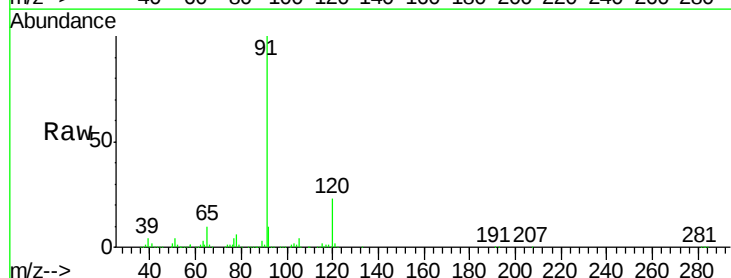
RT: 10.57 min Scan# 2948

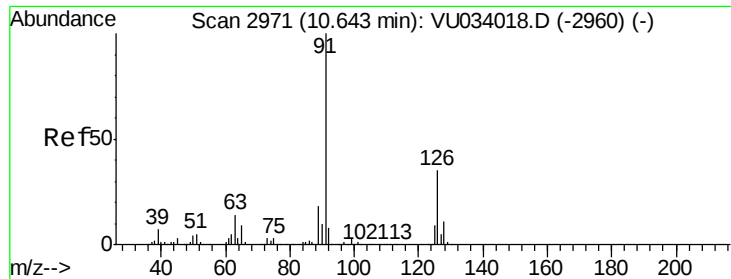
Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1276428 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 120       | 23.3  | 11.7  | 35.0    |





#79

2-Chlorotoluene

Concen: 47.471 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 743102

Ion Ratio Lower Upper

91 100

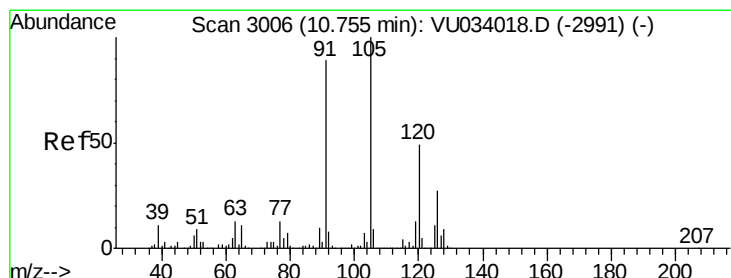
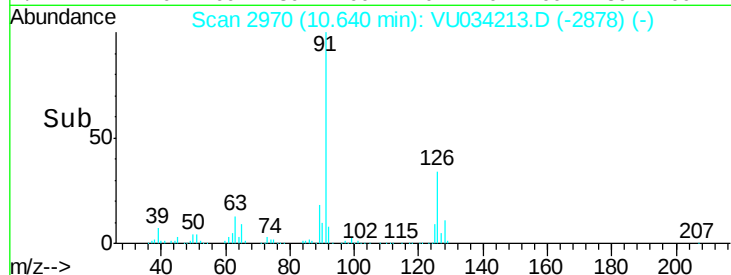
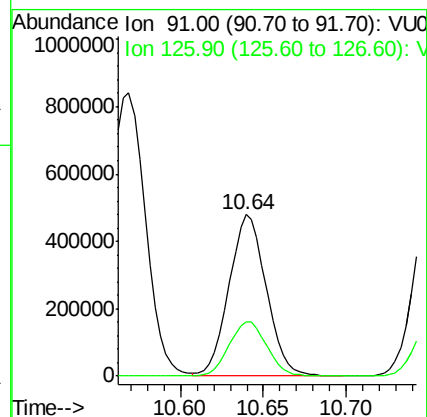
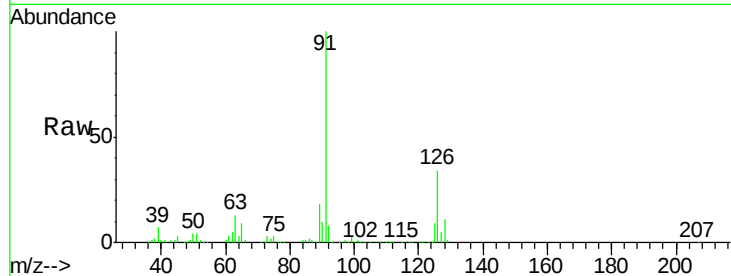
126 34.4 17.1 51.2

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#80

1,3,5-Trimethylbenzene

Concen: 49.347 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VU034213.D

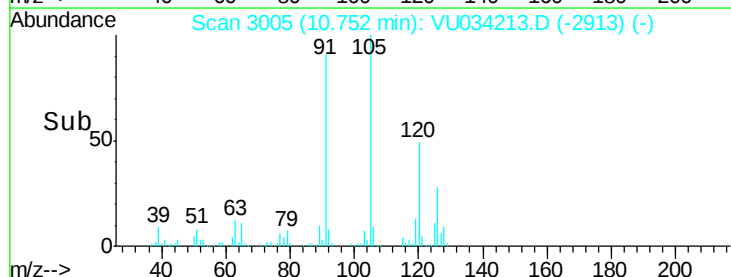
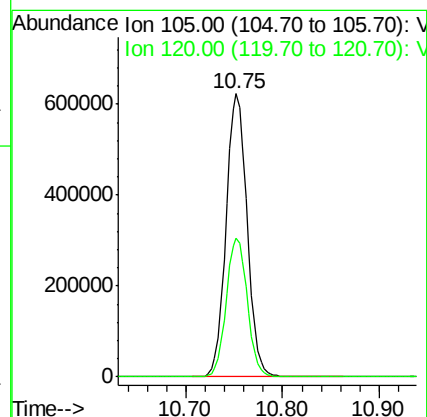
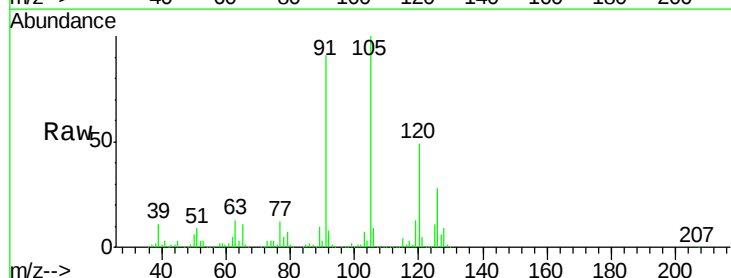
Acq: 03 Sep 2019 09:27

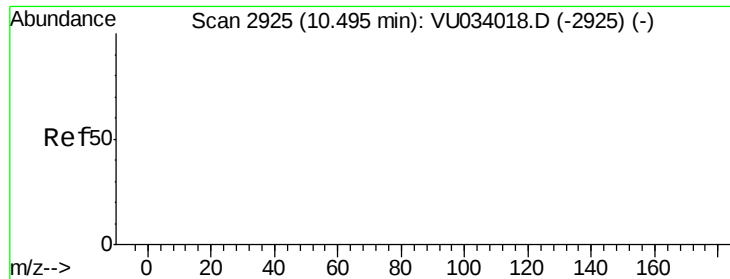
Tgt Ion: 105 Resp: 937275

Ion Ratio Lower Upper

105 100

120 49.2 24.6 73.6





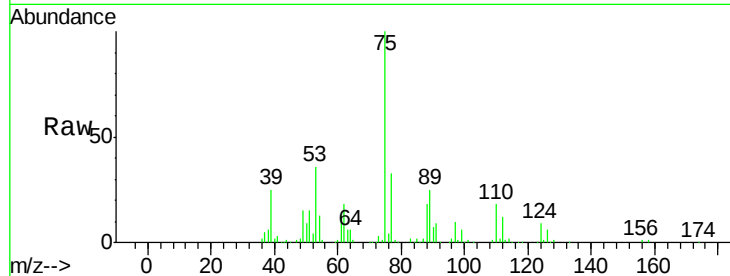
#81  
trans-1,4-Dichloro-2-butene  
Concen: 44.392 ug/l m  
RT: 10.49 min Scan# 2924  
Delta R.T. -0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 0.0   | 0.0   | 0.0   |
| 89      | 0.0   | 0.0   | 0.0   |

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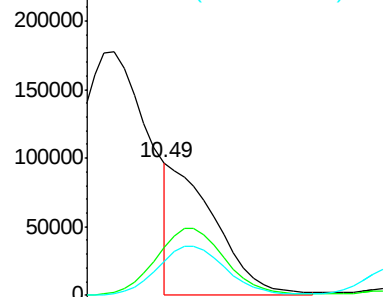
MMDadoda  
9/4/2019 4:56:49 PM



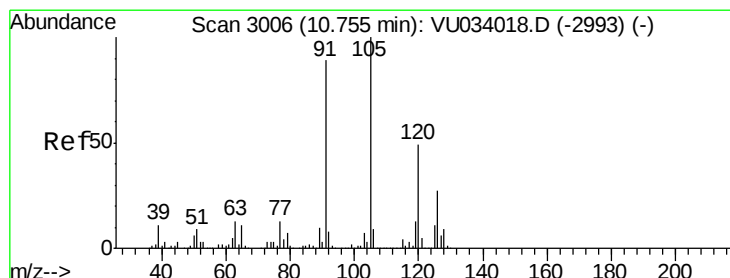
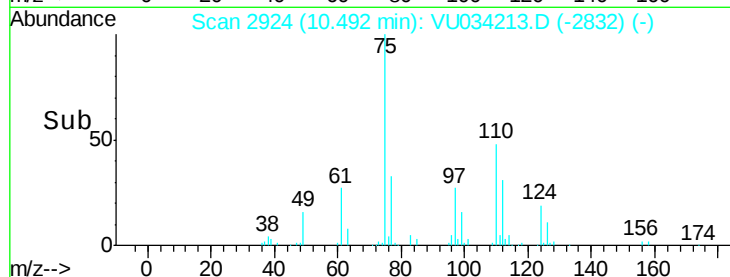
Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2925) (-)

Ion 53.00 (52.70 to 53.70): VU034018.D (-2925) (-)

Ion 88.90 (88.60 to 89.60): VU034018.D (-2925) (-)

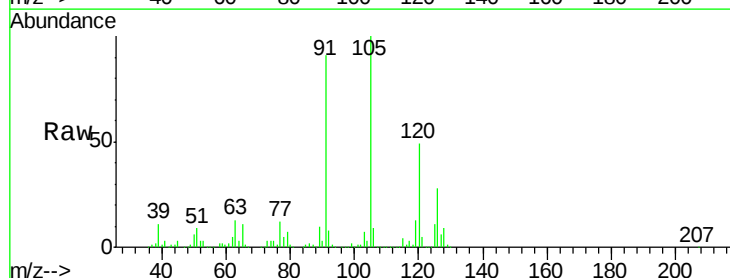


Time-->



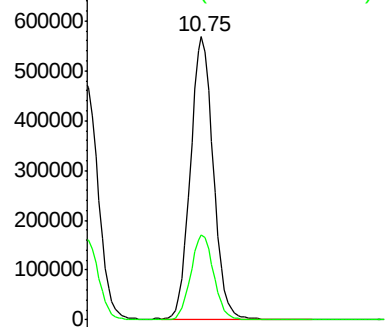
#82  
4-Chlorotoluene  
Concen: 48.436 ug/l  
RT: 10.75 min Scan# 3005  
Delta R.T. -0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 30.3  | 15.0  | 45.1  |

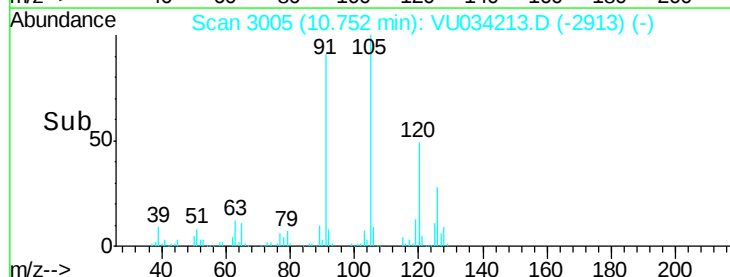


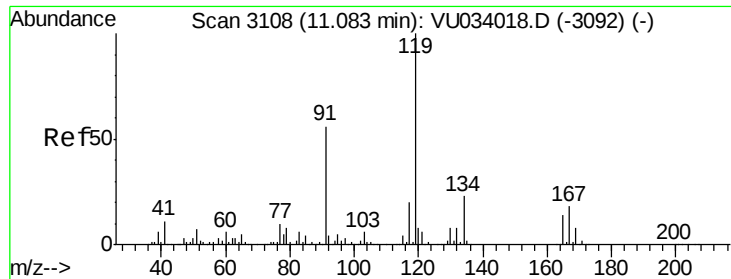
Abundance Ion 91.00 (90.70 to 91.70): VU034018.D (-2993) (-)

Ion 125.90 (125.60 to 126.60): VU034018.D (-2993) (-)



Time-->





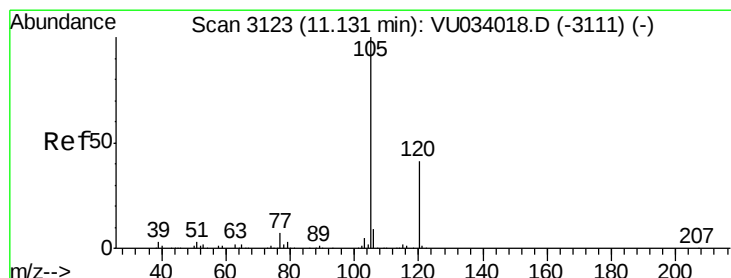
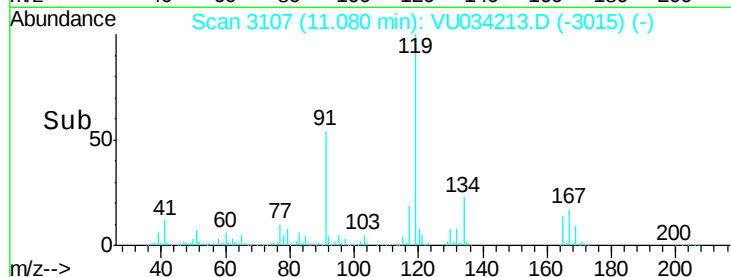
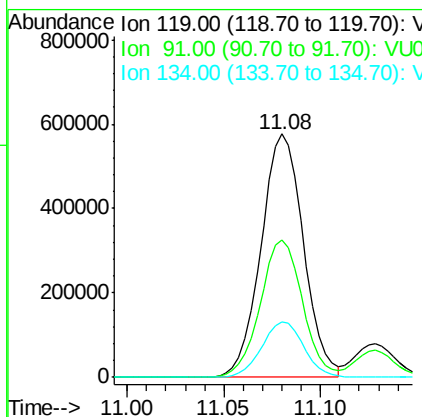
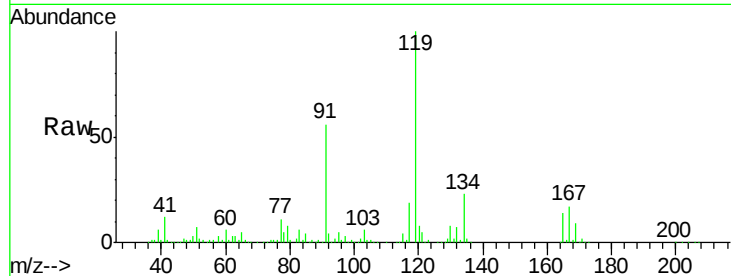
#83  
 tert-Butylbenzene  
 Concen: 47.212 ug/l  
 RT: 11.08 min Scan# 3107  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 119   | Resp: | 882765 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 91        | 56.0  | 27.9  | 83.6   |
| 134       | 22.7  | 11.4  | 34.2   |

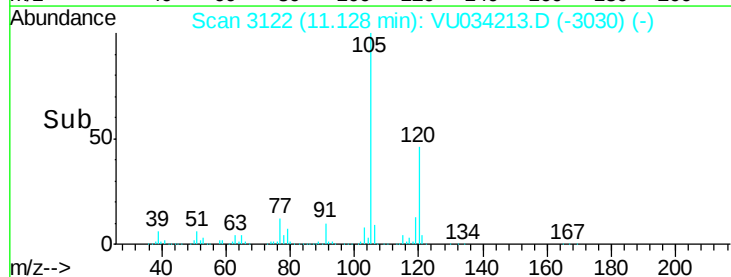
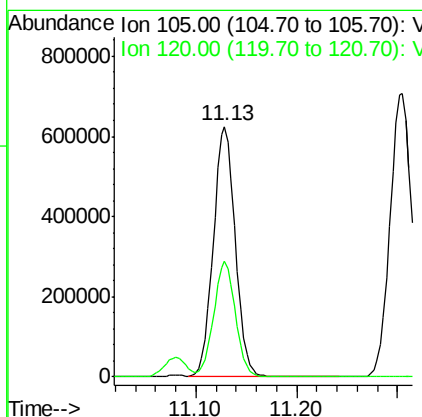
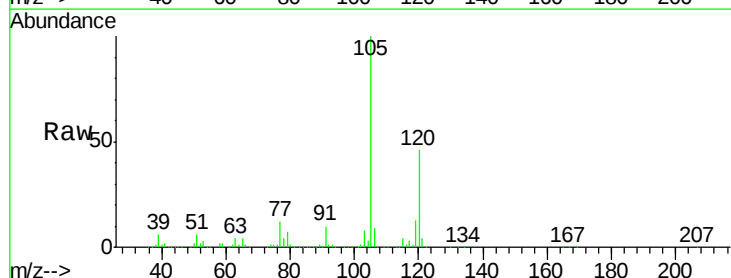
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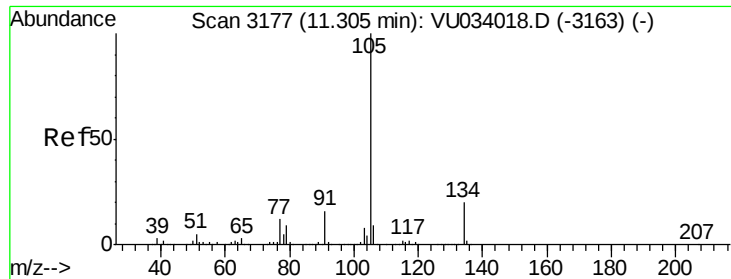
MMDadoda  
 9/4/2019 4:56:49 PM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 49.899 ug/l  
 RT: 11.13 min Scan# 3122  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 941112 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 45.9  | 22.6  | 67.8   |





#85

sec-Butylbenzene

Concen: 48.331 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1083105

Ion Ratio Lower Upper

105 100

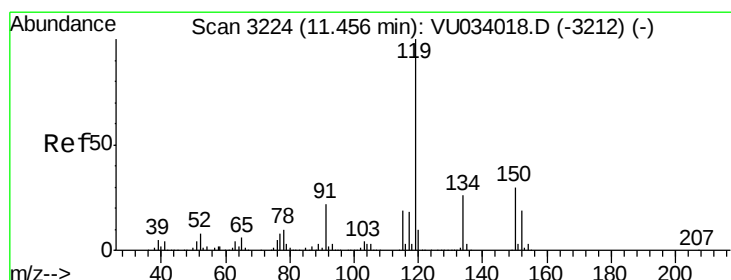
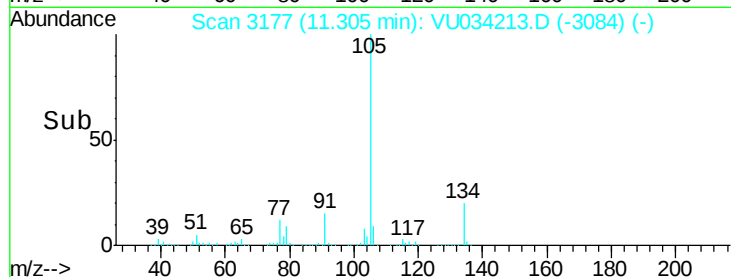
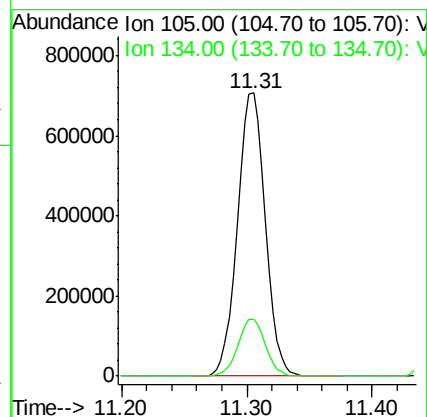
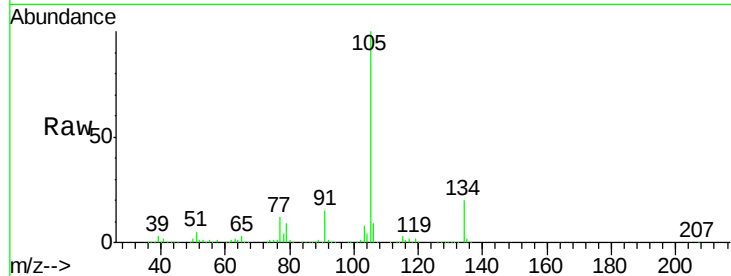
134 20.0 10.0 30.0

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 49.331 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

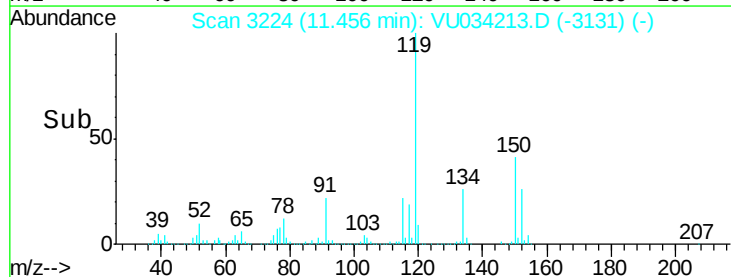
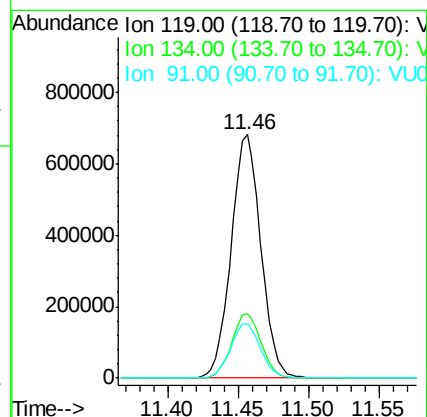
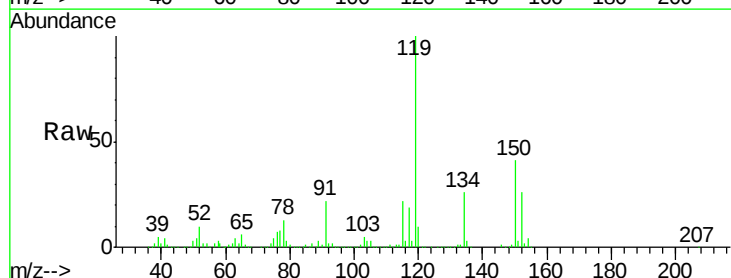
Tgt Ion:119 Resp: 999858

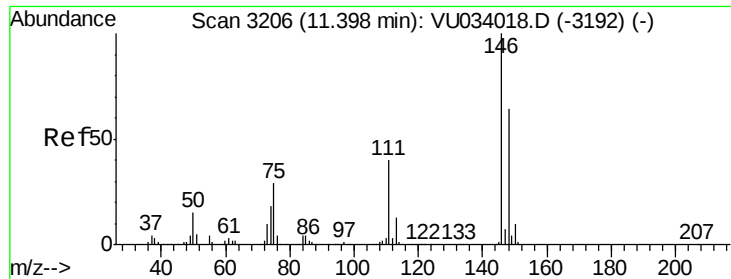
Ion Ratio Lower Upper

119 100

134 26.5 13.1 39.1

91 22.5 11.2 33.6





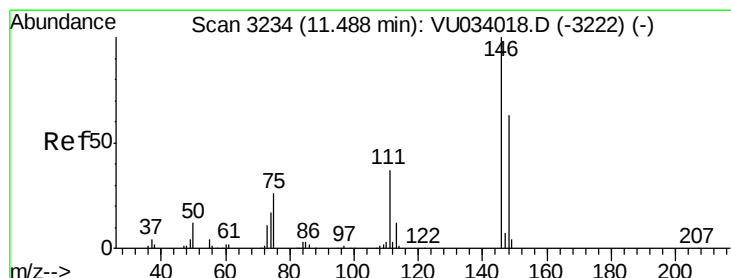
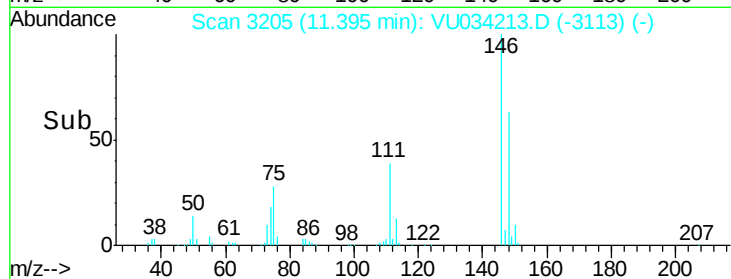
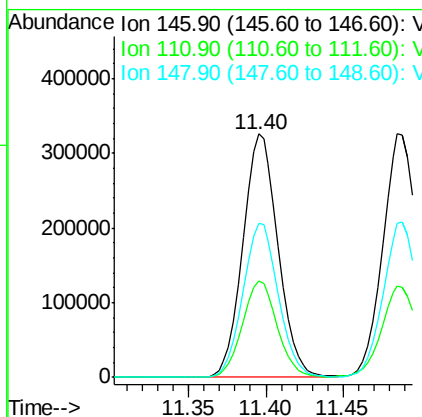
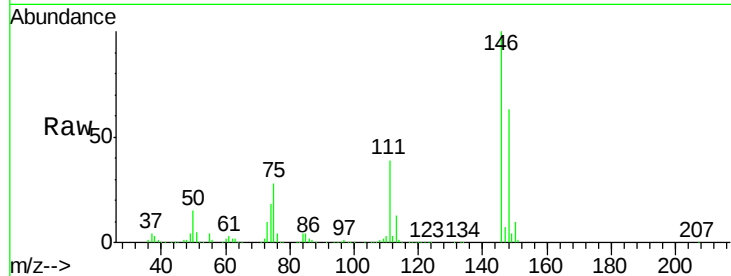
#87  
 1,3-Dichlorobenzene  
 Concen: 48.286 ug/l  
 RT: 11.40 min Scan# 3205  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.0  | 19.9  | 59.6  |
| 148     | 63.7  | 31.9  | 95.5  |

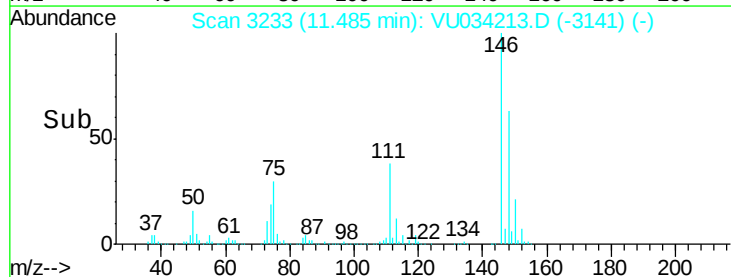
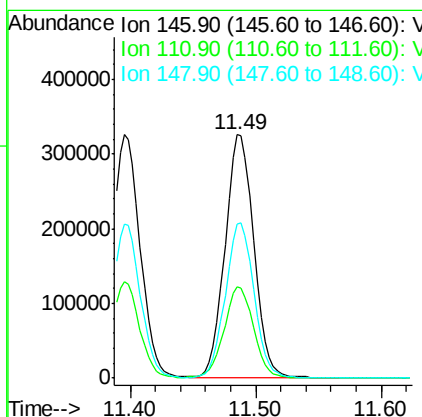
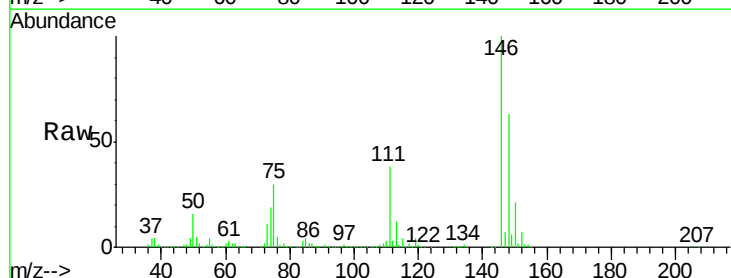
Manual Integrations  
 APPROVED

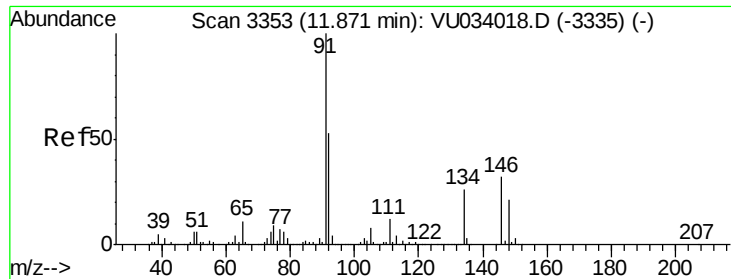
MMDadoda  
 9/4/2019 4:56:49 PM



#88  
 1,4-Dichlorobenzene  
 Concen: 48.039 ug/l  
 RT: 11.49 min Scan# 3233  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.3  | 19.2  | 57.6  |
| 148     | 63.4  | 31.9  | 95.9  |





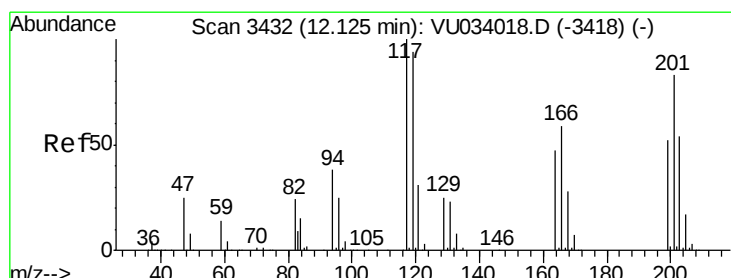
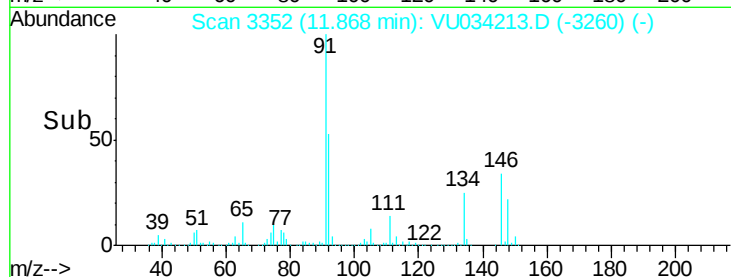
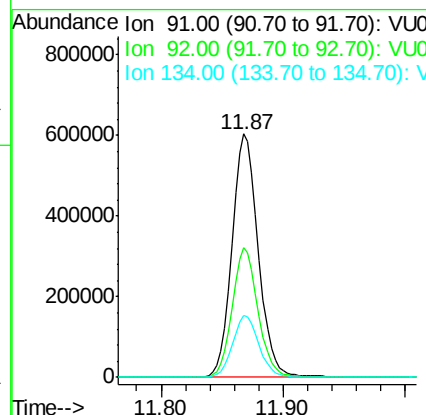
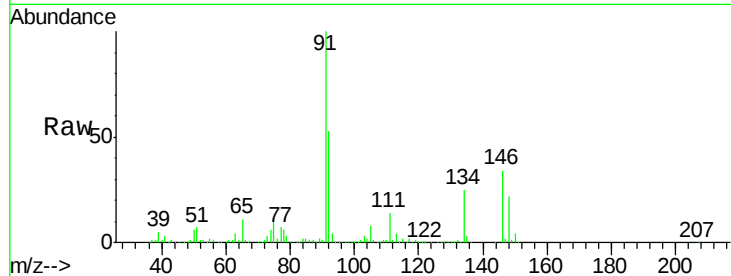
#89  
n-Butylbenzene  
Concen: 50.920 ug/l  
RT: 11.87 min Scan# 3352  
Delta R.T. -0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.3  | 26.3  | 78.9  |
| 134     | 25.5  | 12.9  | 38.7  |

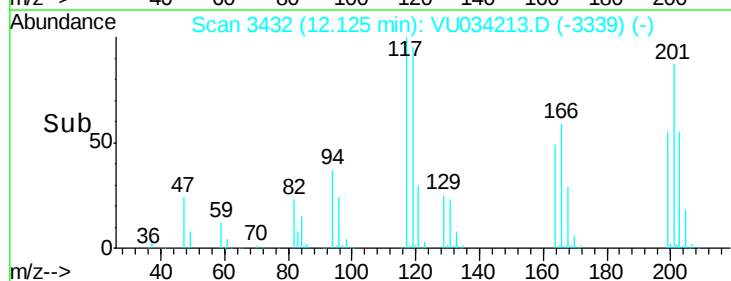
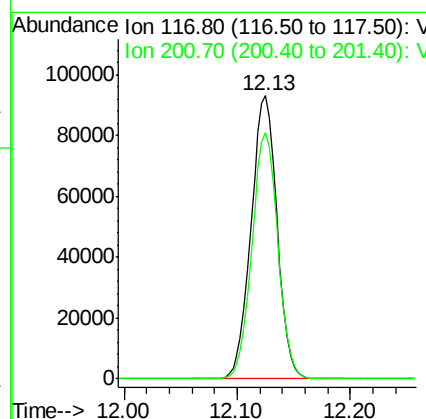
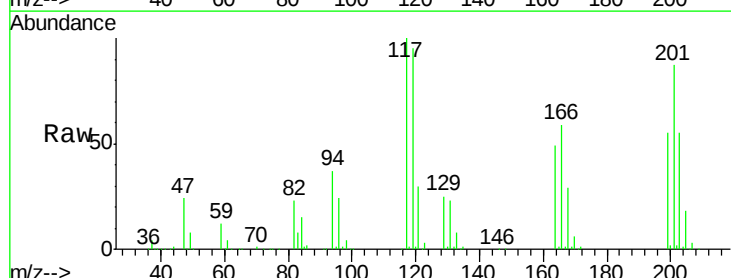
Manual Integrations  
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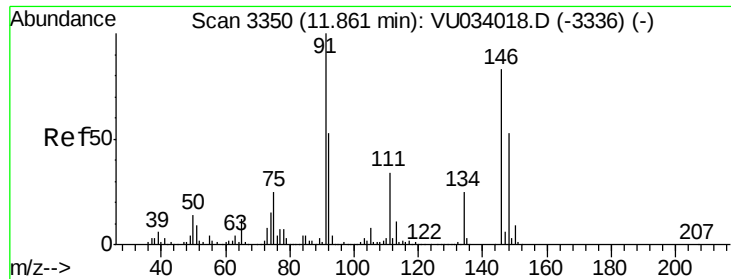
MMDadoda  
9/4/2019 4:56:49 PM



#90  
Hexachloroethane  
Concen: 42.514 ug/l  
RT: 12.13 min Scan# 3432  
Delta R.T. 0.00 min  
Lab File: VU034213.D  
Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 86.5  | 42.5  | 127.6 |





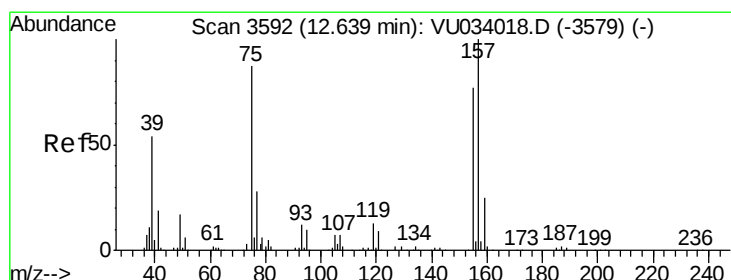
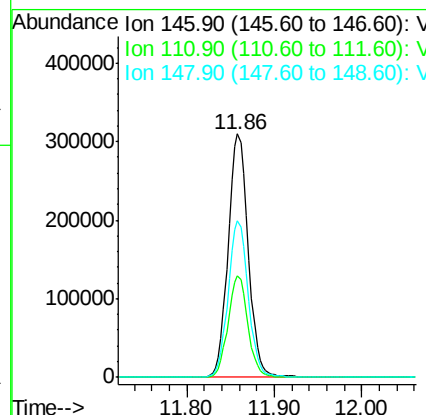
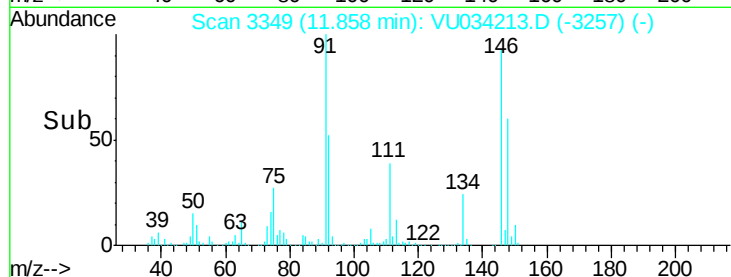
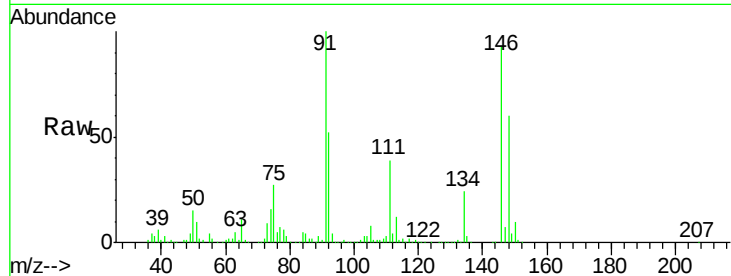
#91  
 1,2-Dichlorobenzene  
 Concen: 48.504 ug/l  
 RT: 11.86 min Scan# 3349  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 495866 |       |       |
| 111     | 41.0  |        | 20.4  | 61.2  |
| 148     | 63.9  |        | 32.3  | 96.8  |

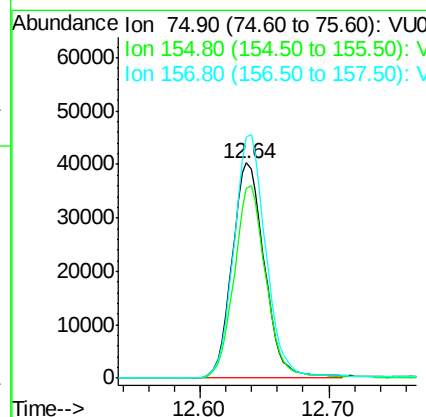
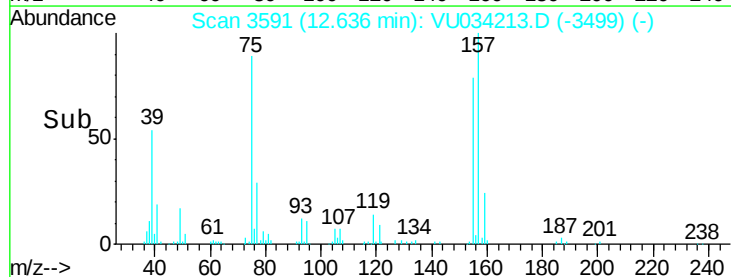
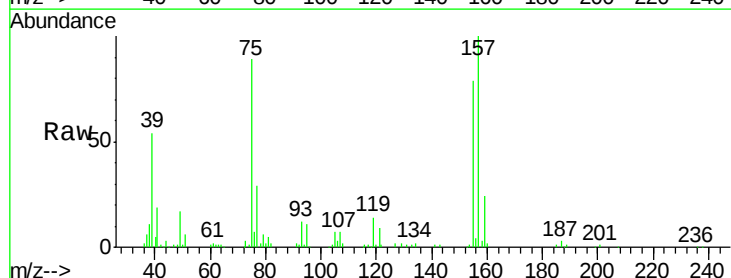
Manual Integrations  
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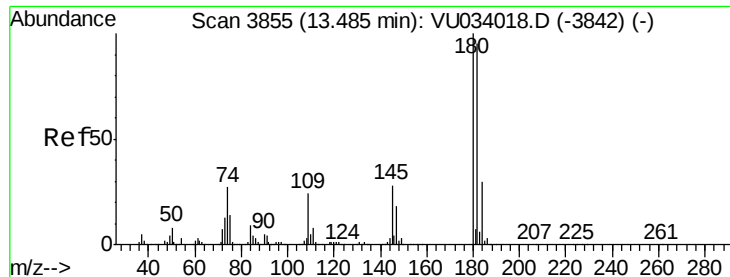
MMDadoda  
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 41.101 ug/l  
 RT: 12.64 min Scan# 3591  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 75      | 100   | 70232 |       |       |
| 155     | 87.3  |       | 43.5  | 130.7 |
| 157     | 112.0 |       | 56.9  | 170.6 |





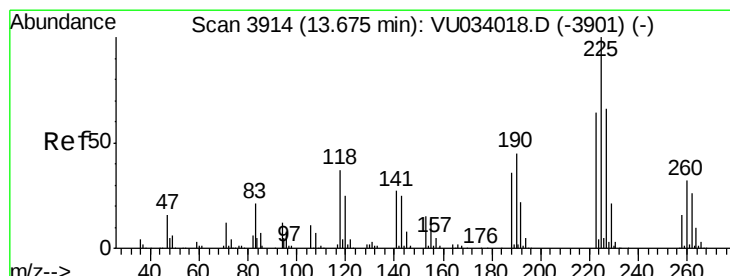
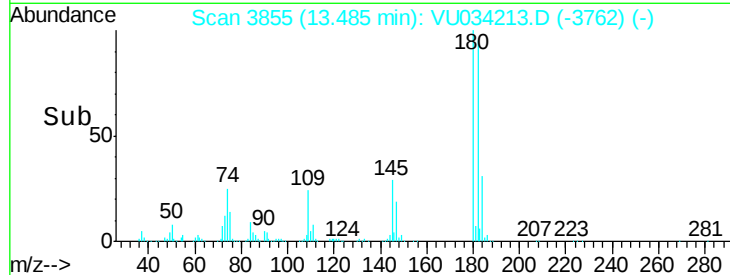
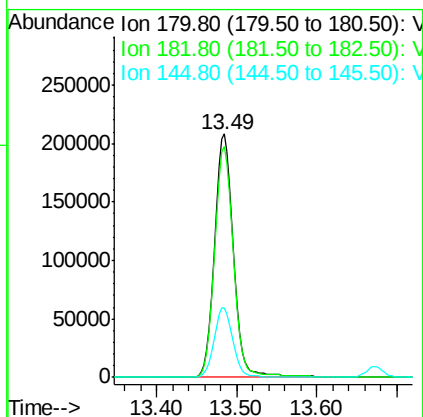
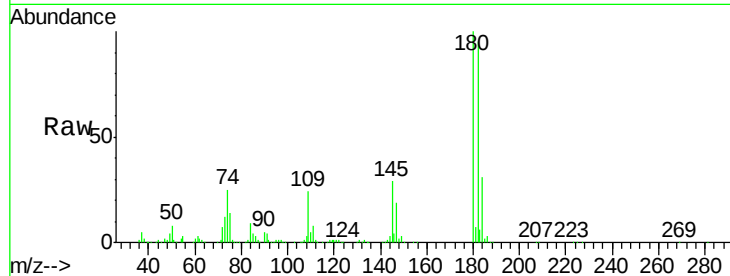
#93  
 1,2,4-Trichlorobenzene  
 Concen: 47.273 ug/l  
 RT: 13.49 min Scan# 3855  
 Delta R.T. 0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 343300 |       |       |
| 182     | 95.0  | 47.4   | 142.2 |       |
| 145     | 28.2  | 14.1   | 42.3  |       |

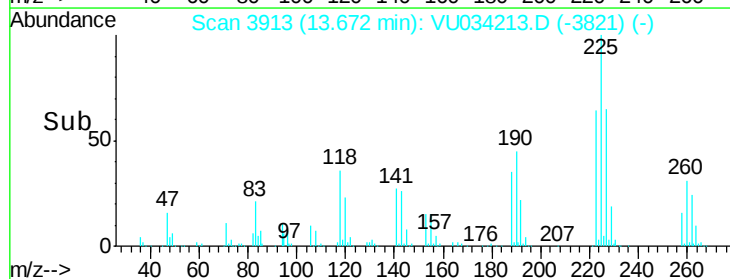
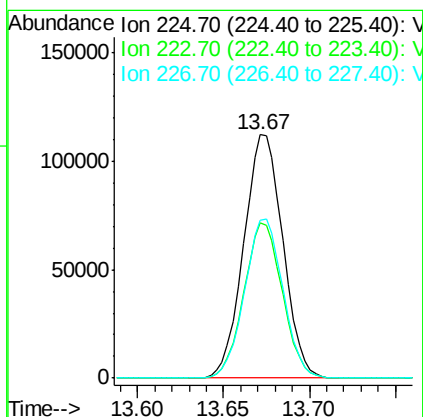
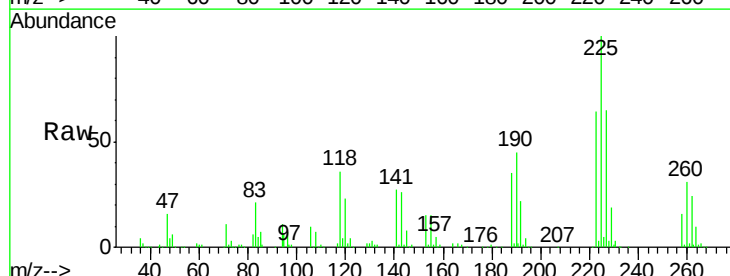
Manual Integrations  
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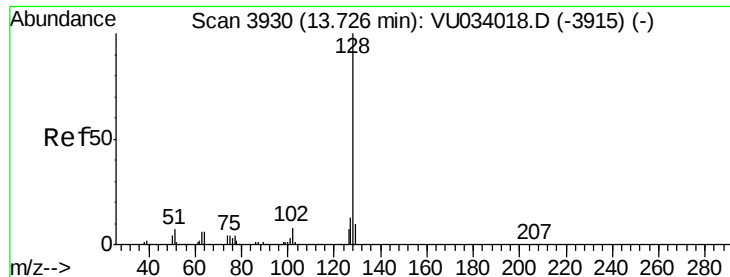
MMDadoda  
 9/4/2019 4:56:49 PM



#94  
 Hexachlorobutadiene  
 Concen: 44.201 ug/l  
 RT: 13.67 min Scan# 3913  
 Delta R.T. -0.00 min  
 Lab File: VU034213.D  
 Acq: 03 Sep 2019 09:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 176771 |       |       |
| 223     | 62.8  | 31.8   | 95.3  |       |
| 227     | 64.4  | 32.6   | 97.8  |       |





#95

Naphthalene

Concen: 41.659 ug/l

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

Instrument :

MSVOA\_U

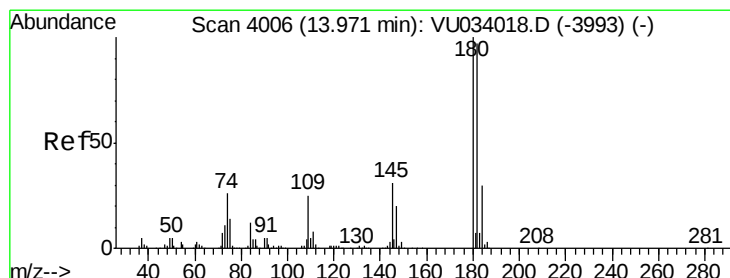
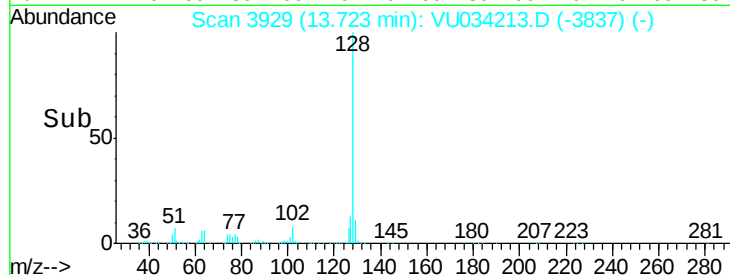
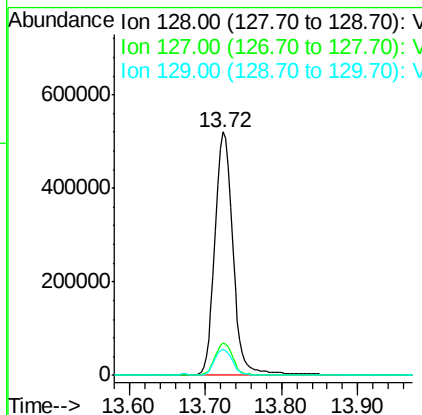
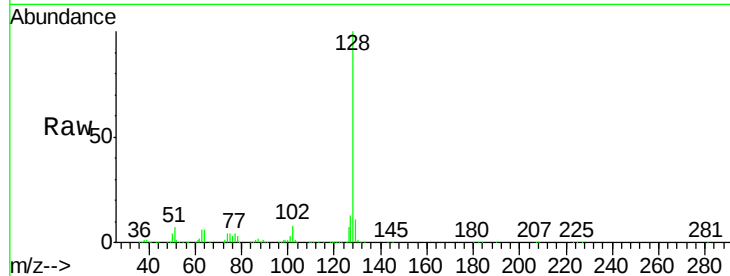
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 861086 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.2  | 10.2  | 15.4   |
| 129       | 10.5  | 8.4   | 12.6   |

Manual Integrations  
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#96

1,2,3-Trichlorobenzene

Concen: 50.013 ug/l

RT: 13.97 min Scan# 4005

Delta R.T. -0.00 min

Lab File: VU034213.D

Acq: 03 Sep 2019 09:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 327530 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 96.5  | 48.2  | 144.6  |
| 145       | 31.2  | 15.5  | 46.5   |

