

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110218\  
 Data File : VU027904.D  
 Acq On : 01 Nov 2018 18:49  
 Operator : MD/SY  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 11/2/2018 9:00:03 AM

Quant Time: Nov 02 01:02:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U110218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 02 01:48:06 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 165277   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 284382   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 256858   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 116619   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |        |      |
|---------------------------|--------|-----|----------|------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 13099    | 4.79 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.58%  |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 9371     | 4.85 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.70%  |      |
| 50) Toluene-d8            | 7.57   | 98  | 36352    | 5.04 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 10.08% |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 11930    | 4.44 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 8.88%  |      |

## Target Compounds

|                               |      |     |        |        | Qvalue    |
|-------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane    | 1.21 | 85  | 8410   | 3.607  | ug/l 92   |
| 3) Chloromethane              | 1.33 | 50  | 12038  | 3.867  | ug/l 100  |
| 4) Vinyl Chloride             | 1.40 | 62  | 12128  | 4.115  | ug/l 100  |
| 5) Bromomethane               | 1.61 | 94  | 4938   | 3.888  | ug/l 94   |
| 6) Chloroethane               | 1.69 | 64  | 7371   | 4.148  | ug/l 98   |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 14293  | 4.666  | ug/l 97   |
| 8) Diethyl Ether              | 2.10 | 74  | 5980   | 4.295  | ug/l 89   |
| 9) 1,1,2-Trichlorotrifluoroet | 2.28 | 101 | 8659   | 4.853  | ug/l 98   |
| 10) Methyl Iodide             | 2.41 | 142 | 2489   | 1.895  | ug/l 97   |
| 11) Tert butyl alcohol        | 2.84 | 59  | 16612  | 27.602 | ug/l 97   |
| 12) 1,1-Dichloroethene        | 2.28 | 96  | 8304   | 4.762  | ug/l 97   |
| 13) Acrolein                  | 2.20 | 56  | 8678   | 19.785 | ug/l 97   |
| 14) Allyl chloride            | 2.59 | 41  | 19889  | 4.806  | ug/l 99   |
| 15) Acrylonitrile             | 2.94 | 53  | 40653  | 26.416 | ug/l 99   |
| 16) Acetone                   | 2.32 | 43  | 40626  | 25.253 | ug/l 100  |
| 17) Carbon Disulfide          | 2.48 | 76  | 27070  | 4.344  | ug/l 98   |
| 18) Methyl Acetate            | 2.62 | 43  | 21387  | 5.612  | ug/l 98   |
| 19) Methyl tert-butyl Ether   | 3.00 | 73  | 34790  | 4.960  | ug/l 96   |
| 20) Methylene Chloride        | 2.70 | 84  | 11716  | 5.143  | ug/l 99   |
| 21) trans-1,2-Dichloroethene  | 2.98 | 96  | 10074  | 5.105  | ug/l 97   |
| 22) Diisopropyl ether         | 3.58 | 45  | 44295  | 5.216  | ug/l 90   |
| 23) Vinyl Acetate             | 3.53 | 43  | 182801 | 24.661 | ug/l 99   |
| 24) 1,1-Dichloroethane        | 3.45 | 63  | 22206  | 5.126  | ug/l 98   |
| 25) 2-Butanone                | 4.27 | 43  | 61962  | 27.346 | ug/l 100  |
| 26) 2,2-Dichloropropane       | 4.23 | 77  | 16565  | 4.724  | ug/l 97   |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96  | 11290  | 4.986  | ug/l 97   |
| 28) Bromochloromethane        | 4.55 | 49  | 11511  | 5.596  | ug/l # 95 |
| 29) Tetrahydrofuran           | 4.65 | 42  | 40178  | 27.906 | ug/l 98   |
| 30) Chloroform                | 4.67 | 83  | 20172  | 5.219  | ug/l 97   |
| 31) Cyclohexane               | 4.99 | 56  | 24675  | 4.882  | ug/l # 84 |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97  | 16322  | 5.033  | ug/l 96   |
| 36) 1,1-Dichloropropene       | 5.14 | 75  | 15477  | 5.044  | ug/l 96   |
| 37) Ethyl Acetate             | 4.39 | 43  | 21156  | 5.201  | ug/l # 95 |
| 38) Carbon Tetrachloride      | 5.13 | 117 | 13386  | 4.833  | ug/l 97   |

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 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 11/2/2018 9:00:03 AM

Quant Time: Nov 02 01:02:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U110218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 02 01:48:06 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.42  | 83   | 17617    | 4.898   | ug/l   | 95       |
| 40) Benzene                    | 5.39  | 78   | 47868    | 5.283   | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.55  | 41   | 11940    | 5.207   | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 5.41  | 62   | 16774    | 5.047   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 5.56  | 43   | 33565    | 5.330   | ug/l   | 99       |
| 44) Trichloroethene            | 6.19  | 130  | 9890     | 4.938   | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 6.43  | 63   | 13571    | 5.214   | ug/l   | 100      |
| 46) Dibromomethane             | 6.57  | 93   | 7838     | 5.329   | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.76  | 83   | 14615    | 4.827   | ug/l   | 97       |
| 48) Methyl methacrylate        | 6.63  | 41   | 16666    | 5.317   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 6.62  | 88   | 5807     | 108.637 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 114535   | 27.818  | ug/l   | 99       |
| 52) Toluene                    | 7.64  | 92   | 26941    | 5.051   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 14756    | 4.164   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 16849    | 4.419   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 11271    | 5.329   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 18915    | 5.327   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.24  | 76   | 20596    | 5.035   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 7.13  | 63   | 49898    | 25.668  | ug/l   | 100      |
| 59) 2-Hexanone                 | 8.36  | 43   | 88682    | 27.708  | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.48  | 129  | 9746     | 4.587   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.59  | 107  | 11550    | 5.085   | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.23  | 164  | 8702     | 5.443   | ug/l   | 98       |
| 65) Chlorobenzene              | 9.12  | 112  | 27751    | 5.118   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 9535     | 5.105   | ug/l   | 97       |
| 67) Ethyl Benzene              | 9.25  | 91   | 50818    | 5.281   | ug/l   | 98       |
| 68) m/p-Xylenes                | 9.38  | 106  | 35591    | 10.143  | ug/l   | 97       |
| 69) o-Xylene                   | 9.78  | 106  | 18507    | 5.525   | ug/l   | 99       |
| 70) Styrene                    | 9.79  | 104  | 28408    | 5.161   | ug/l   | 98       |
| 71) Bromoform                  | 9.96  | 173  | 6995     | 4.607   | ug/l # | 97       |
| 73) Isopropylbenzene           | 10.17 | 105  | 47831    | 5.641   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.02 | 43   | 28044    | 5.663   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 19937    | 5.898   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 10.49 | 75   | 18436m   | 6.097   | ug/l   |          |
| 77) Bromobenzene               | 10.46 | 156  | 11462    | 5.758   | ug/l   | 97       |
| 78) n-propylbenzene            | 10.59 | 91   | 55854    | 5.476   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 36300    | 5.894   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 39630    | 5.704   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 5620m    | 4.803   | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 38814    | 5.569   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.10 | 119  | 39856    | 5.935   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 37981    | 5.372   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.32 | 105  | 46370    | 5.487   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 38447    | 5.341   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 19838    | 5.301   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 20661    | 5.407   | ug/l   | 96       |
| 89) n-Butylbenzene             | 11.89 | 91   | 35211    | 5.211   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.15 | 117  | 6396     | 4.726   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 20421    | 5.576   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 4191     | 5.643   | ug/l   | 85       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110218\  
Data File : VU027904.D  
Acq On : 01 Nov 2018 18:49  
Operator : MD/SY  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

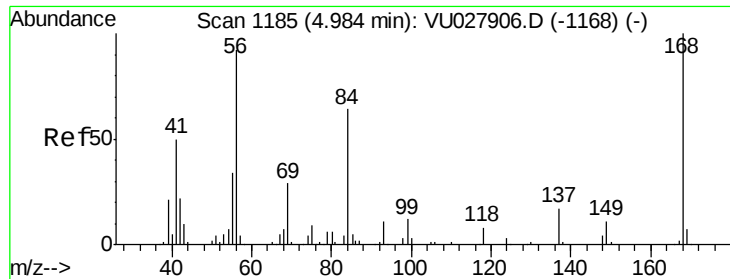
MMDadoda  
11/2/2018 9:00:03 AM

Quant Time: Nov 02 01:02:48 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U110218W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 02 01:48:06 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.50 | 180  | 11351    | 4.784 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.69 | 225  | 6078     | 5.101 | ug/l  | 98       |
| 95) Naphthalene            | 13.74 | 128  | 43320    | 5.358 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 12126    | 4.886 | ug/l  | 95       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 165277

Ion Ratio Lower Upper

168 100

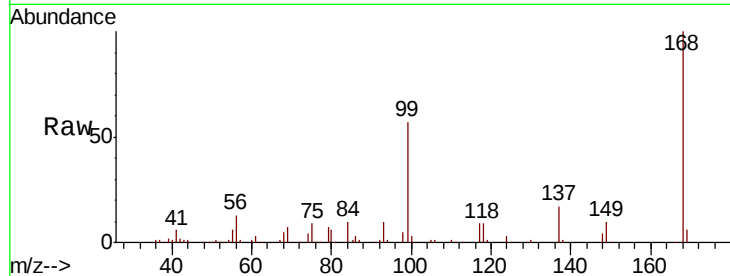
99 56.5 47.9 71.9

Manual Integrations

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11/2/2018 9:00:03 AM



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

80000

60000

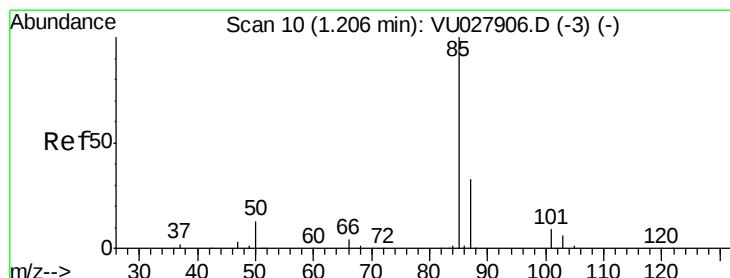
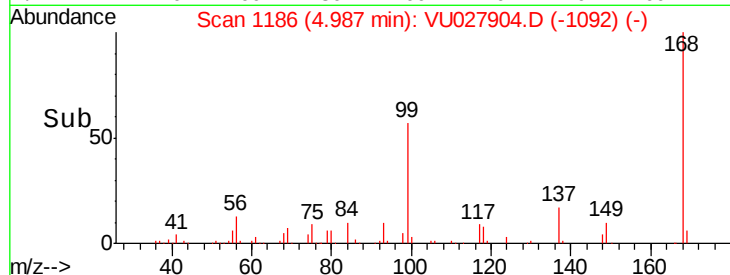
40000

20000

0

4.90 4.99 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 3.607 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU027904.D

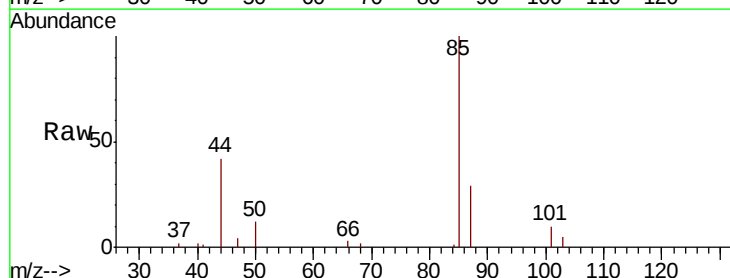
Acq: 01 Nov 2018 18:49

Tgt Ion: 85 Resp: 8410

Ion Ratio Lower Upper

85 100

87 28.8 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU027906.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027906.D (-3) (-)

10000

8000

6000

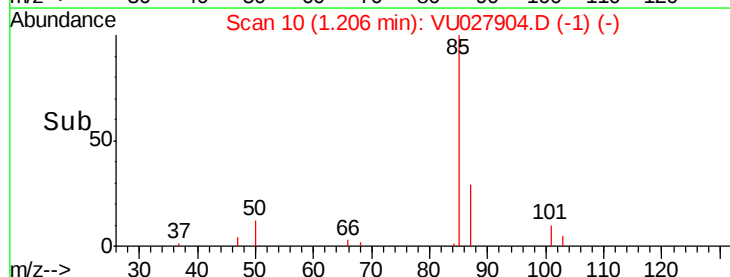
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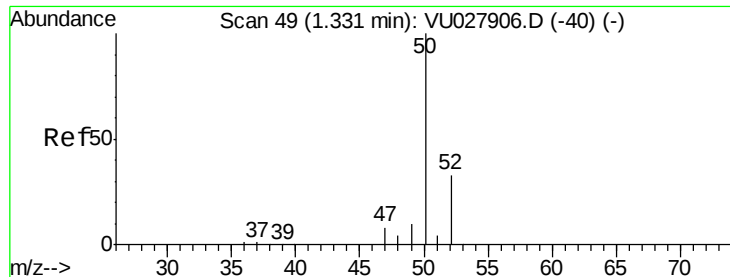
2000

0

1.20 1.21 1.25

Time-->





#3

Chloromethane

Concen: 3.867 ug/l

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 12038

Ion Ratio Lower Upper

50 100

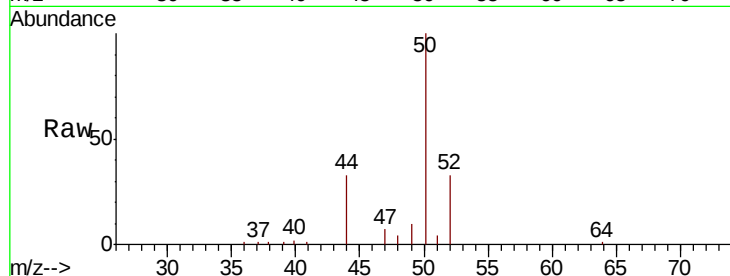
52 32.9 26.2 39.4

Manual Integrations

APPROVED

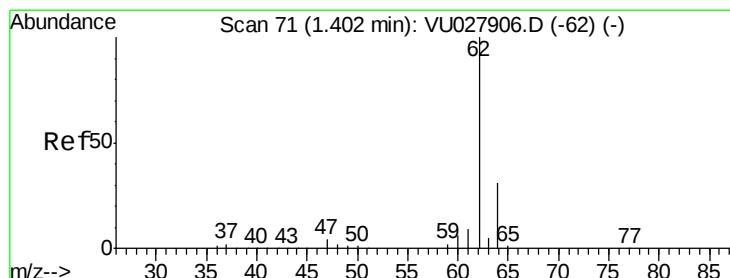
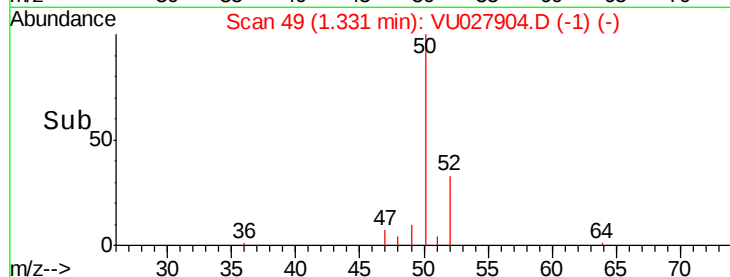
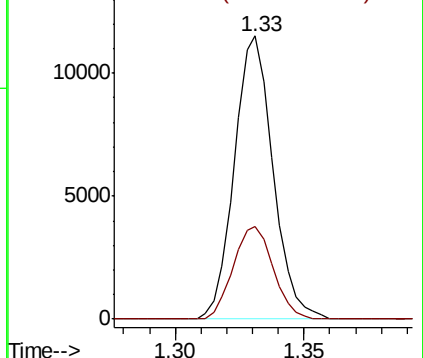
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 49.90 (49.60 to 50.60): VU027906.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU027906.D (-40) (-)



#4

Vinyl Chloride

Concen: 4.115 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU027904.D

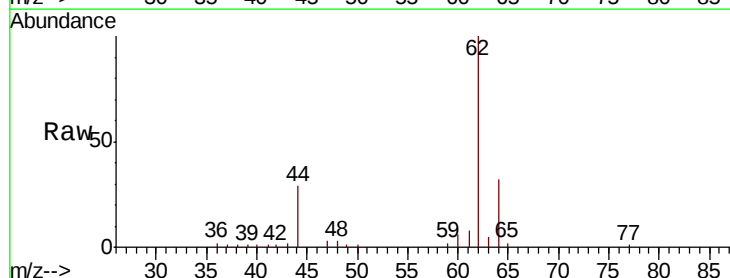
Acq: 01 Nov 2018 18:49

Tgt Ion: 62 Resp: 12128

Ion Ratio Lower Upper

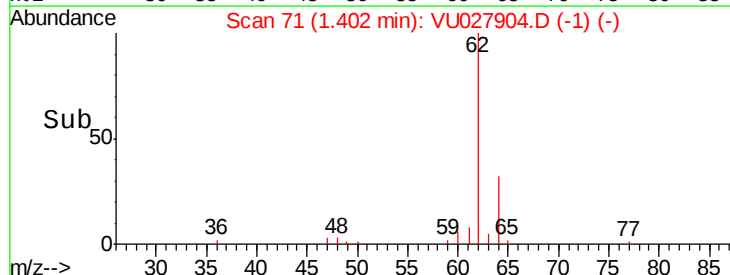
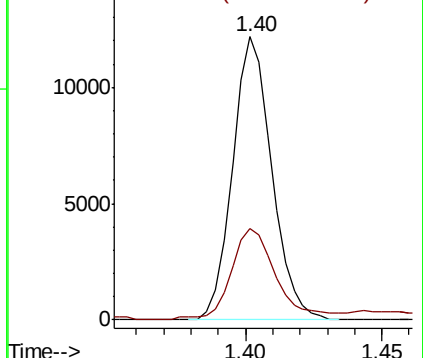
62 100

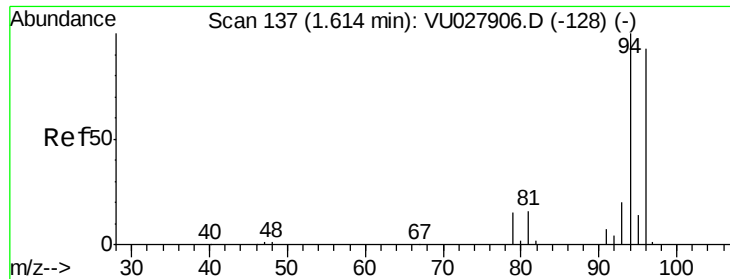
64 31.3 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VU027906.D (-62) (-)

Ion 63.90 (63.60 to 64.60): VU027906.D (-62) (-)





#5

Bromomethane

Concen: 3.888 ug/l

RT: 1.61 min Scan# 137

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 4938

Ion Ratio Lower Upper

94 100

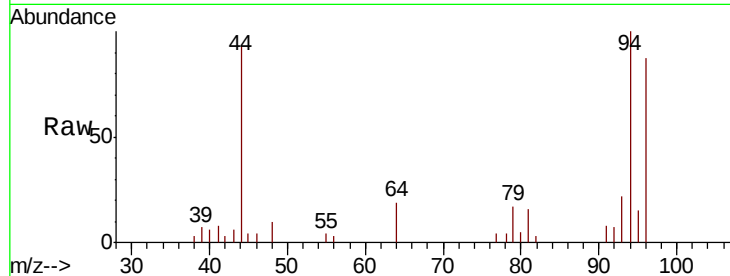
96 87.4 74.8 112.2

Manual Integrations

APPROVED

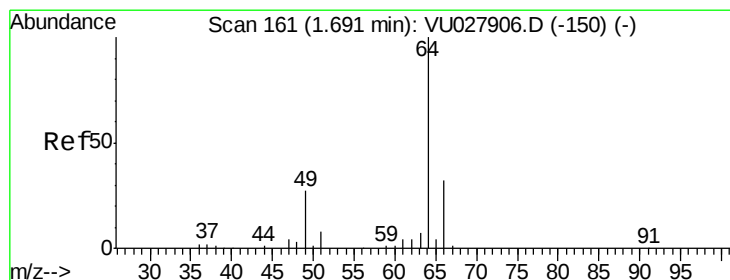
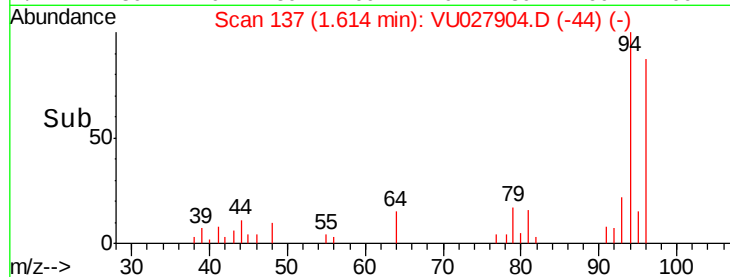
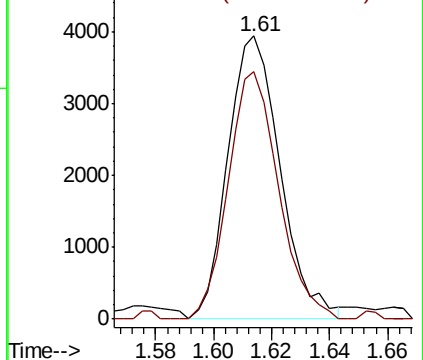
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 93.90 (93.60 to 94.60): VU027906.D (-128) (-)

Ion 95.90 (95.60 to 96.60): VU027906.D (-128) (-)



#6

Chloroethane

Concen: 4.148 ug/l

RT: 1.69 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU027904.D

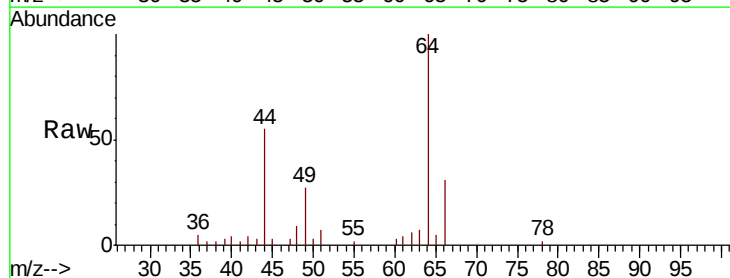
Acq: 01 Nov 2018 18:49

Tgt Ion: 64 Resp: 7371

Ion Ratio Lower Upper

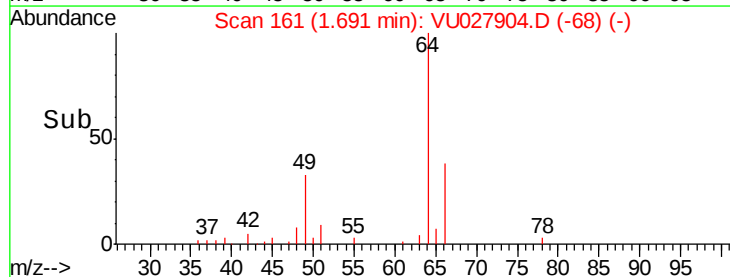
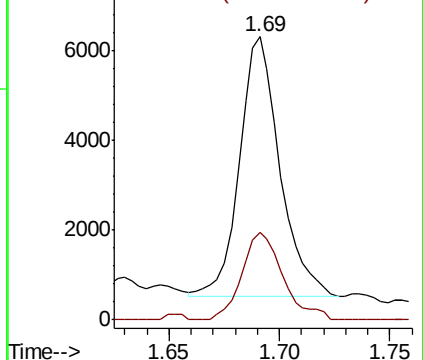
64 100

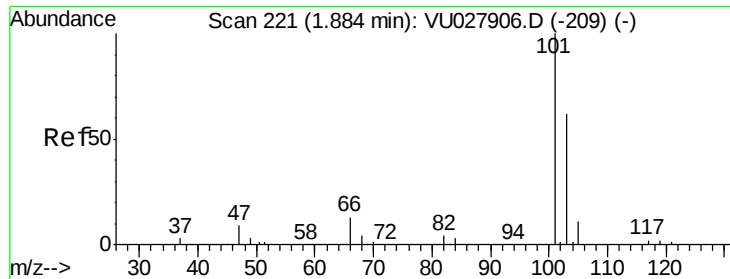
66 33.6 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU027906.D (-150) (-)

Ion 65.90 (65.60 to 66.60): VU027906.D (-150) (-)





#7

Trichlorofluoromethane

Concen: 4.666 ug/l

RT: 1.88 min Scan# 220

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 14293

Ion Ratio Lower Upper

101 100

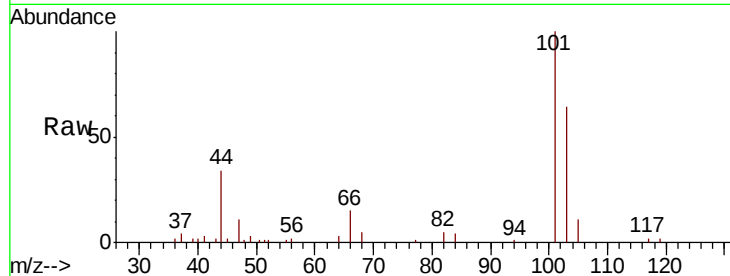
103 64.2 49.4 74.2

Manual Integrations

APPROVED

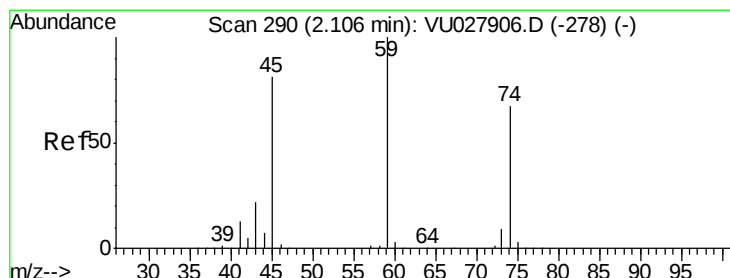
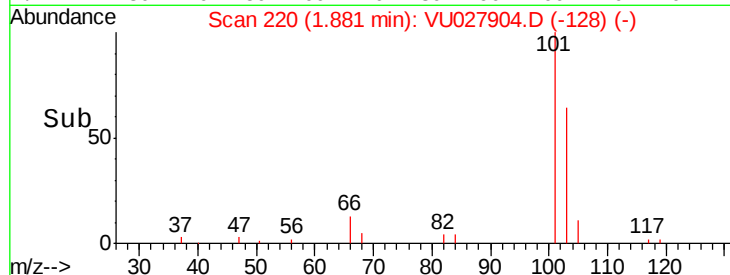
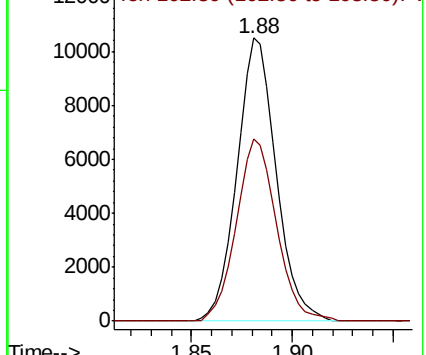
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 4.295 ug/l

RT: 2.10 min Scan# 289

Delta R.T. -0.00 min

Lab File: VU027904.D

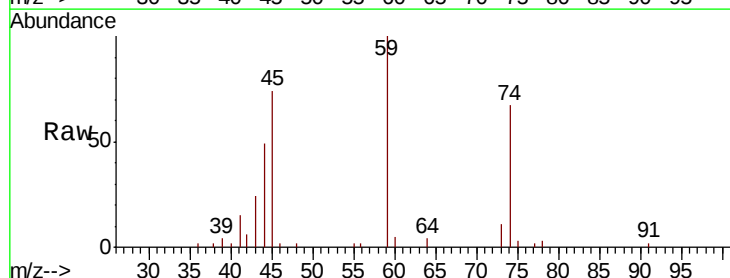
Acq: 01 Nov 2018 18:49

Tgt Ion: 74 Resp: 5980

Ion Ratio Lower Upper

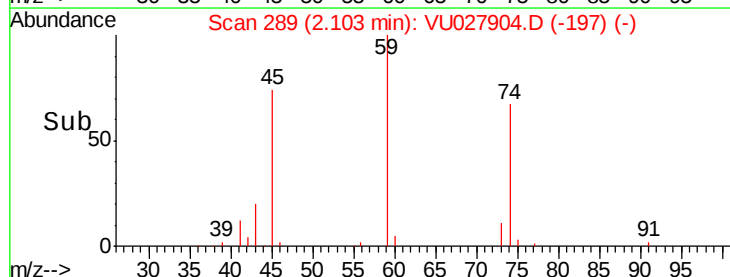
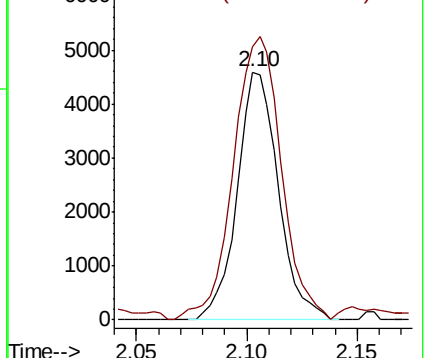
74 100

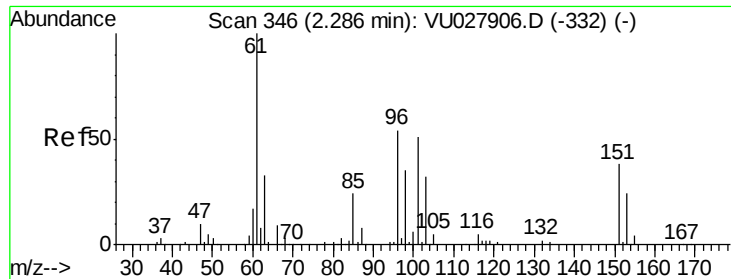
45 132.8 60.5 181.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.853 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

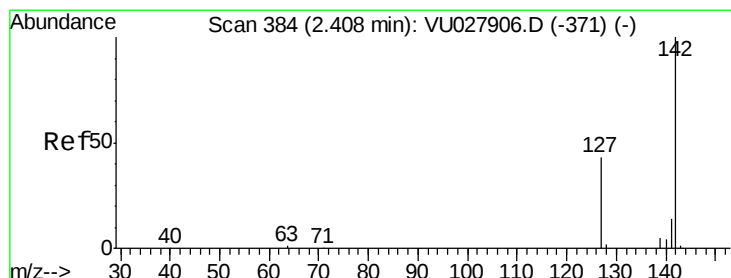
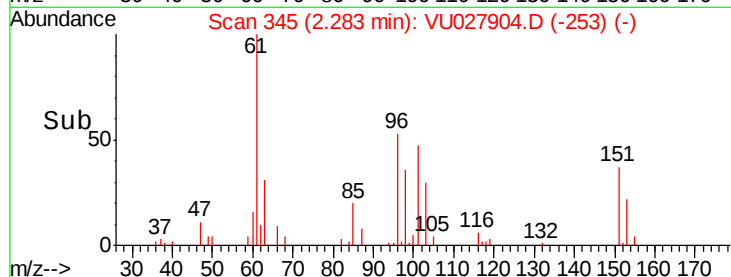
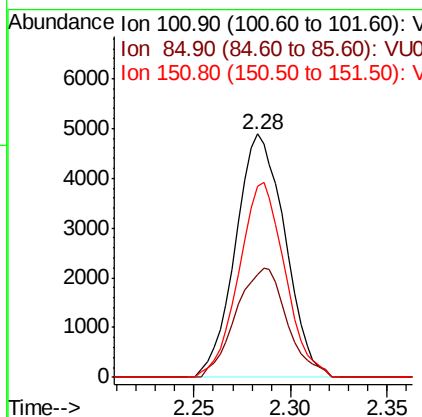
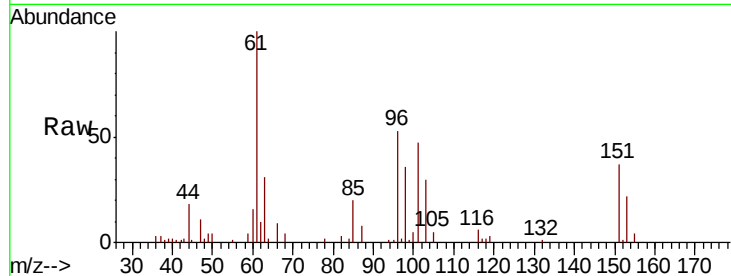
ClientSampleId :

VSTDIC005

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 101   | Resp: | 8659 |
| Ion Ratio | Lower | Upper |      |
| 101       | 100   |       |      |
| 85        | 46.4  | 36.9  | 55.3 |
| 151       | 74.9  | 58.0  | 87.0 |

Manual Integrations  
APPROVED

MMDadoda  
11/2/2018 9:00:03 AM



#10

Methyl Iodide

Concen: 1.895 ug/l

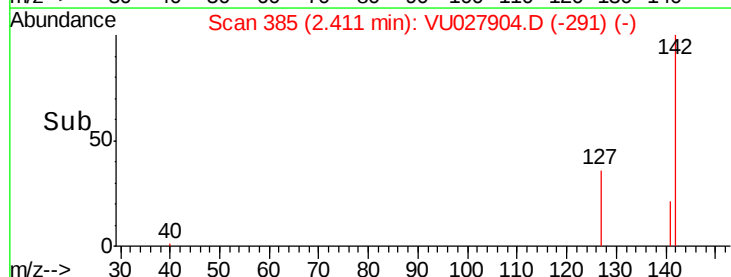
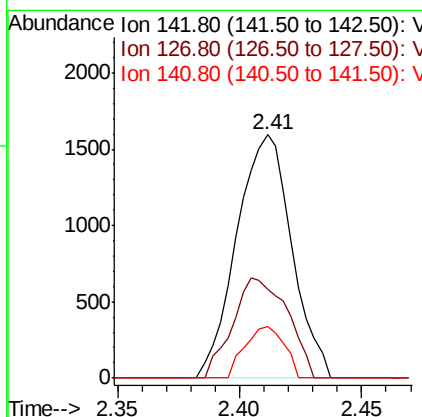
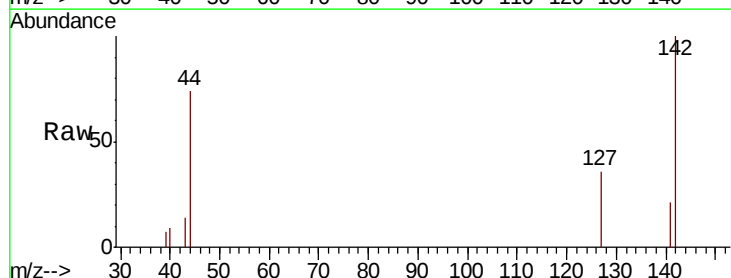
RT: 2.41 min Scan# 385

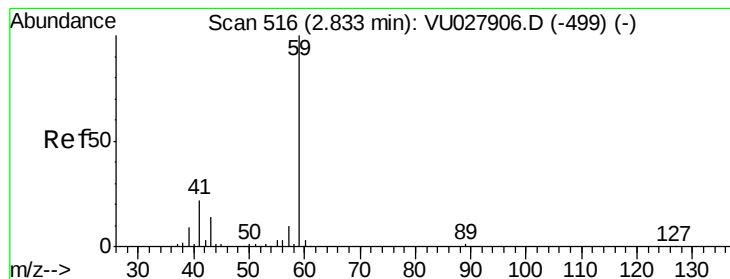
Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 142   | Resp: | 2489 |
| Ion Ratio | Lower | Upper |      |
| 142       | 100   |       |      |
| 127       | 41.2  | 35.2  | 52.8 |
| 141       | 15.0  | 11.8  | 17.8 |





#11

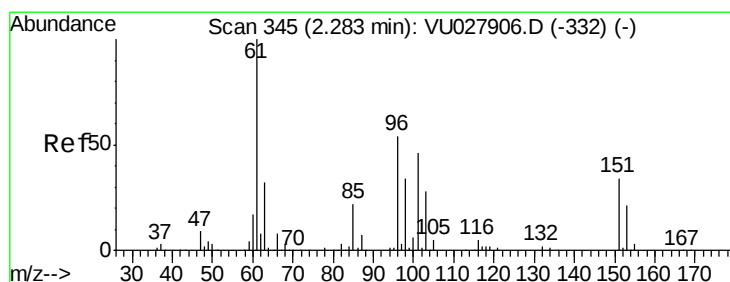
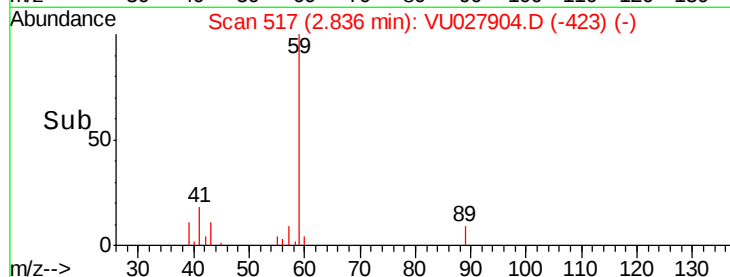
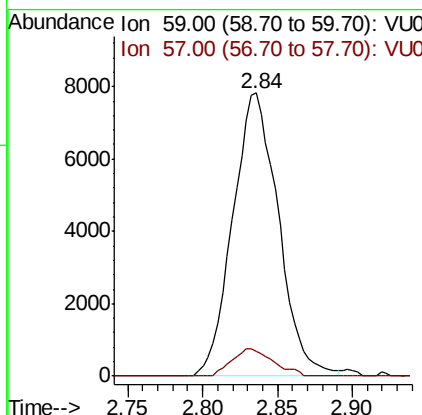
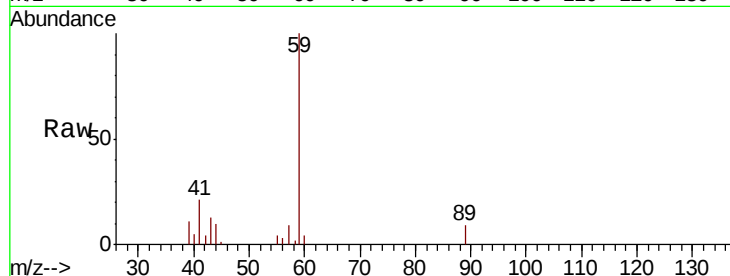
Tert butyl alcohol  
 Concen: 27.602 ug/l  
 RT: 2.84 min Scan# 517  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 8.8   | 7.8   | 11.8  |

Manual Integrations  
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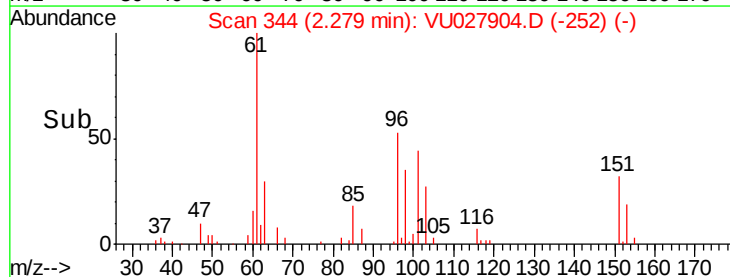
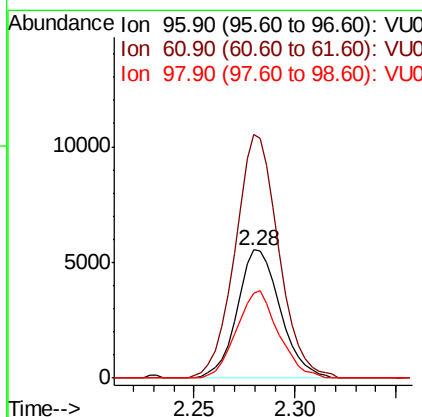
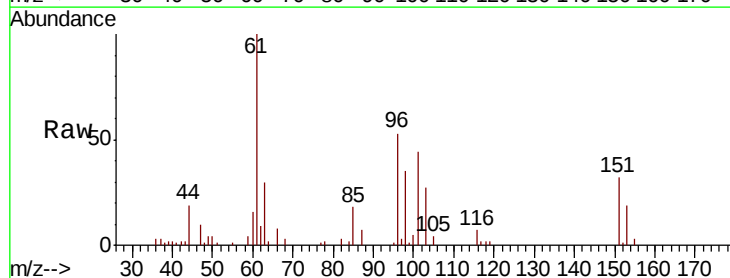
MMDadoda  
 11/2/2018 9:00:03 AM

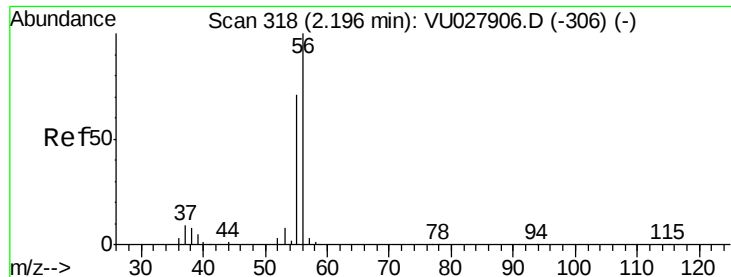


#12

1,1-Dichloroethene  
 Concen: 4.762 ug/l  
 RT: 2.28 min Scan# 344  
 Delta R.T. -0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 189.9 | 149.3 | 223.9 |
| 98      | 66.6  | 50.6  | 75.8  |





#13

Acrolein

Concen: 19.785 ug/l

RT: 2.20 min Scan# 318

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 8678

Ion Ratio Lower Upper

56 100

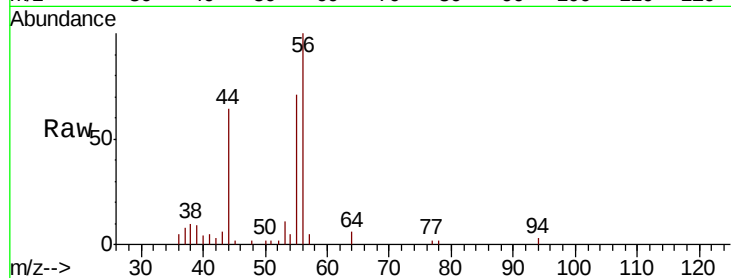
55 72.5 56.2 84.4

Manual Integrations

APPROVED

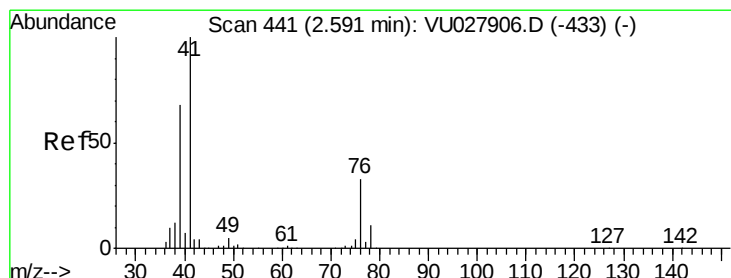
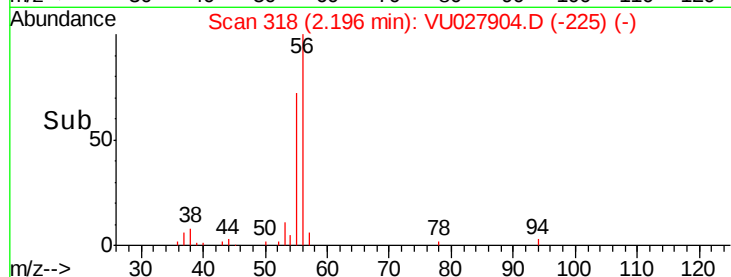
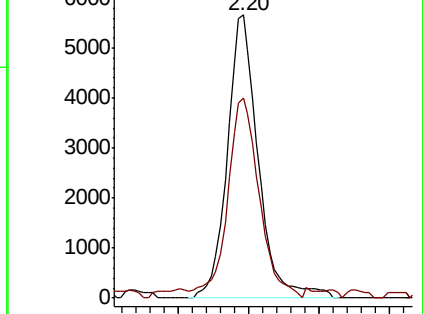
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 56.00 (55.70 to 56.70): VU027904.D (-225) (-)

Ion 55.00 (54.70 to 55.70): VU027904.D (-225) (-)



#14

Allyl chloride

Concen: 4.806 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

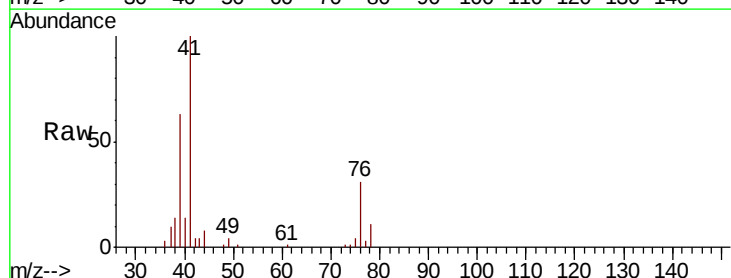
Tgt Ion: 41 Resp: 19889

Ion Ratio Lower Upper

41 100

39 66.0 51.9 77.9

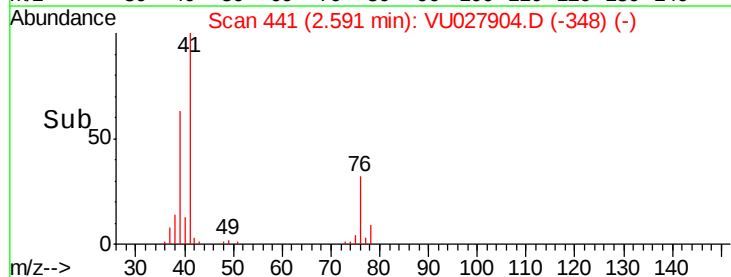
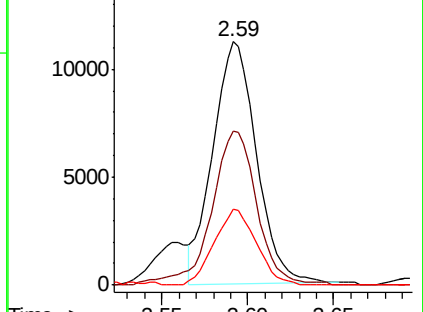
76 30.0 23.8 35.6

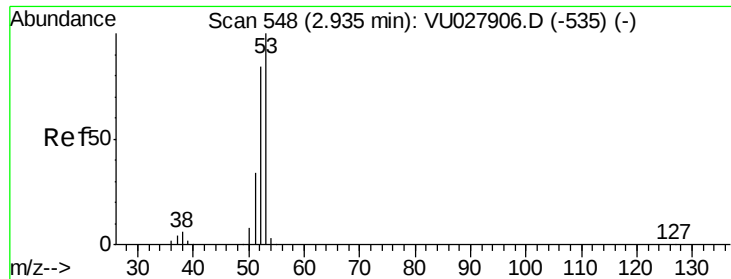


Abundance Ion 41.00 (40.70 to 41.70): VU027904.D (-348) (-)

Ion 39.00 (38.70 to 39.70): VU027904.D (-348) (-)

Ion 75.90 (75.60 to 76.60): VU027904.D (-348) (-)





#15

Acrylonitrile

Concen: 26.416 ug/l

RT: 2.94 min Scan# 549

Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

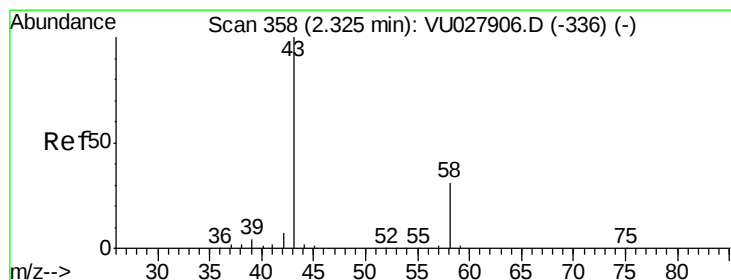
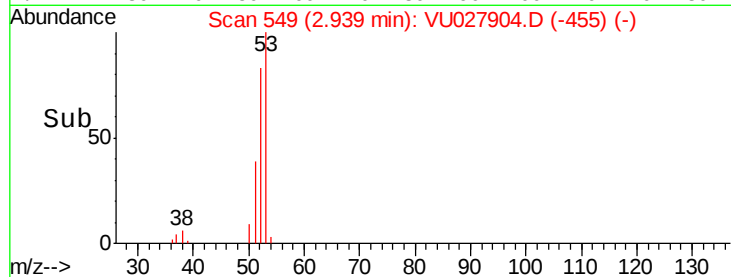
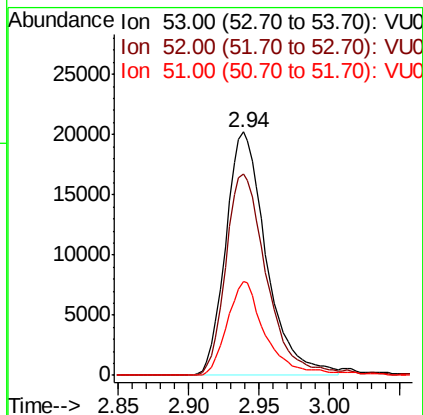
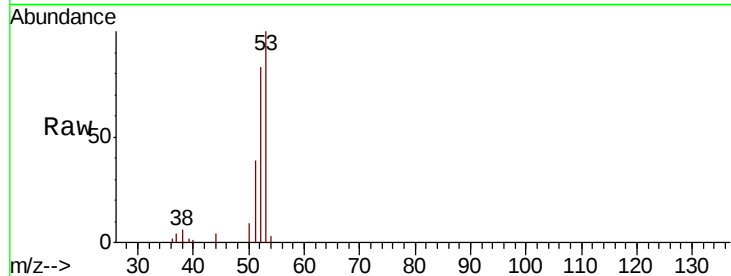
ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 40653 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 82.5  | 66.2  | 99.2  |
| 51       | 36.0  | 27.0  | 40.4  |

Manual Integrations  
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MMDadoda  
11/2/2018 9:00:03 AM



#16

Acetone

Concen: 25.253 ug/l

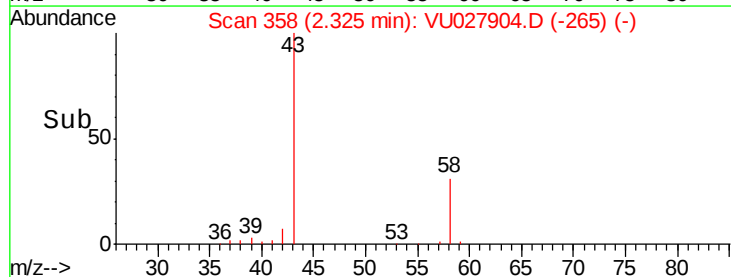
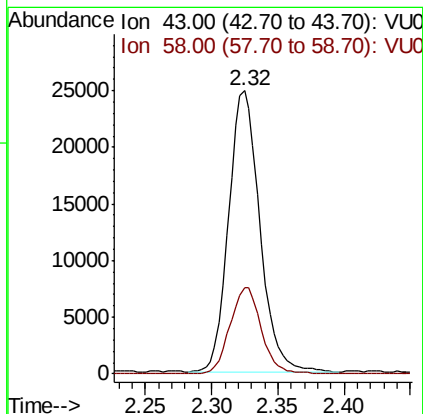
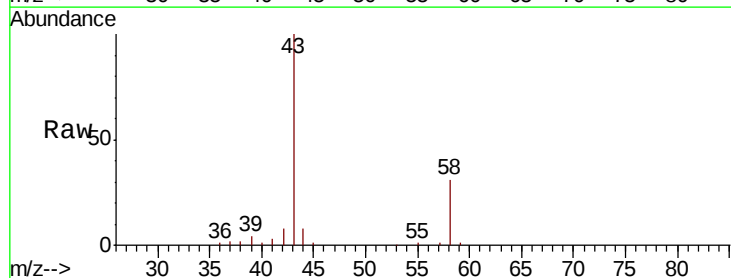
RT: 2.32 min Scan# 358

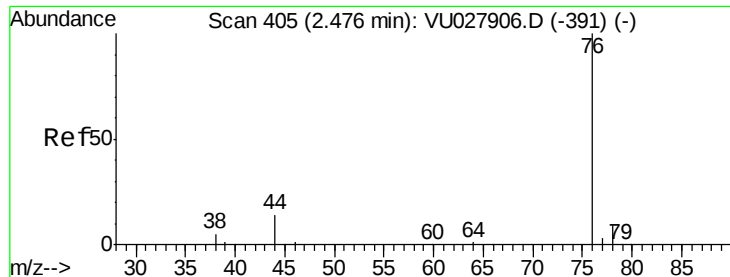
Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 40626 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 30.8  | 24.6  | 37.0  |





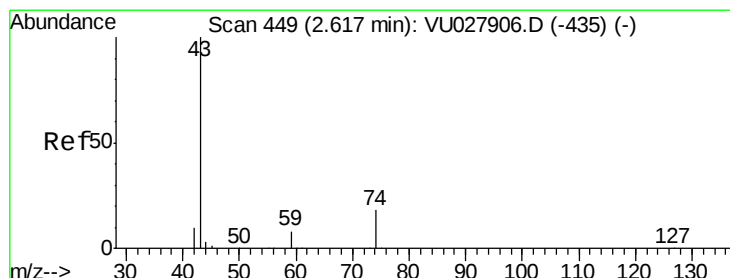
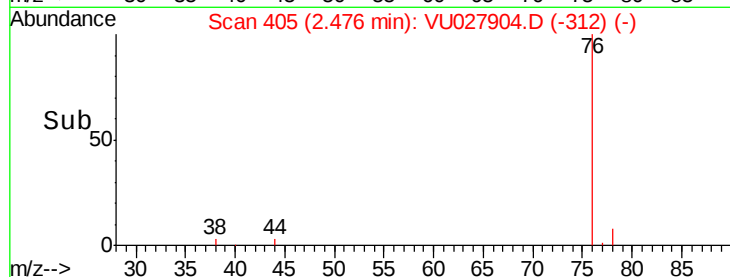
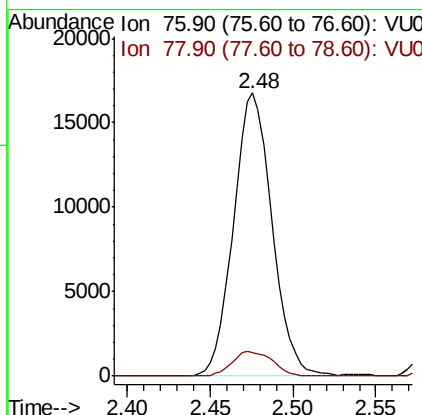
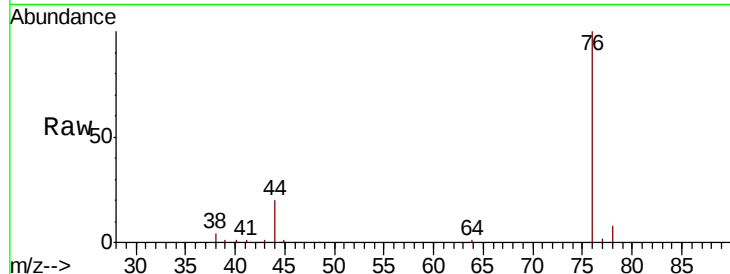
#17  
Carbon Disulfide  
Concen: 4.344 ug/l  
RT: 2.48 min Scan# 405  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 8.5   | 7.4   | 11.0  |

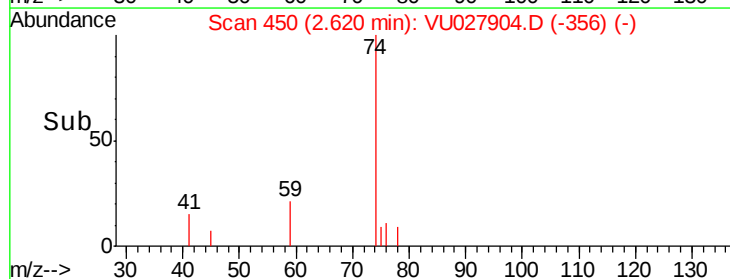
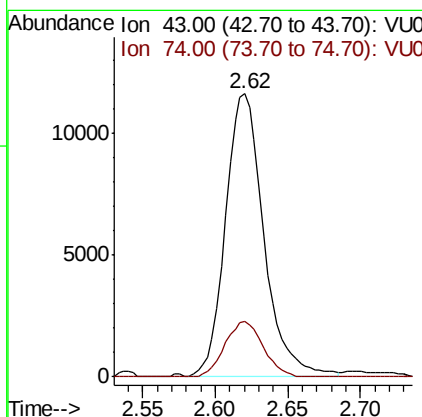
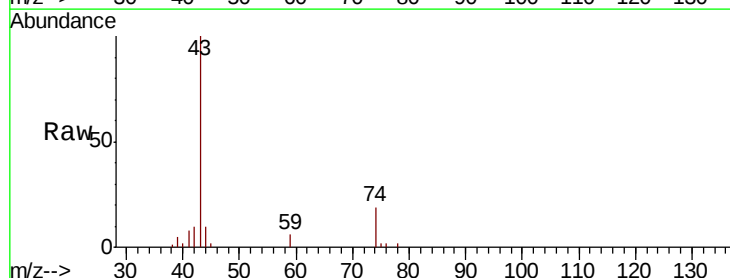
Manual Integrations  
APPROVED

MMDadoda  
11/2/2018 9:00:03 AM



#18  
Methyl Acetate  
Concen: 5.612 ug/l  
RT: 2.62 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 19.3  | 14.9  | 22.3  |





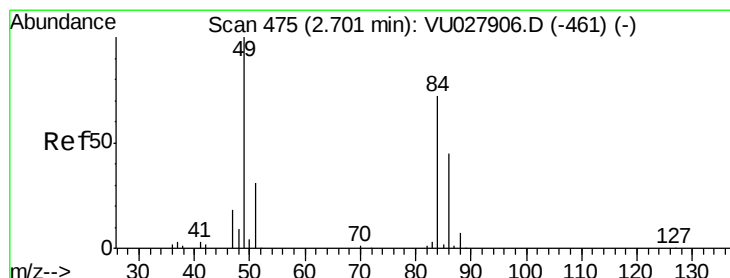
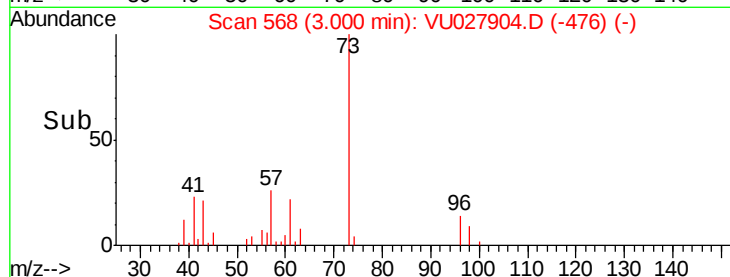
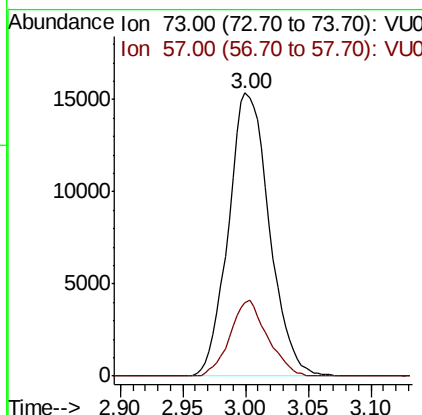
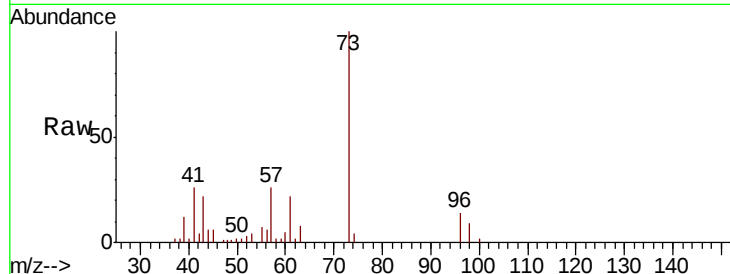
#19  
Methvl tert-butvl Ether  
Concen: 4.960 ug/l  
RT: 3.00 min Scan# 568  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion   | 73   | Resp  | 34790 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 73        | 100  | 19.3  | 28.9  |
| 57        | 26.2 |       |       |

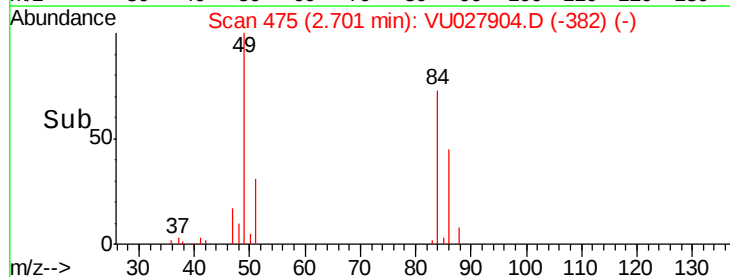
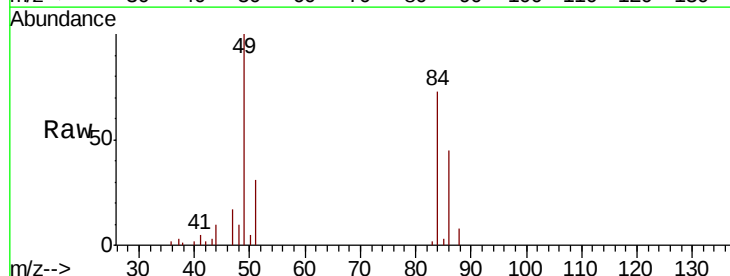
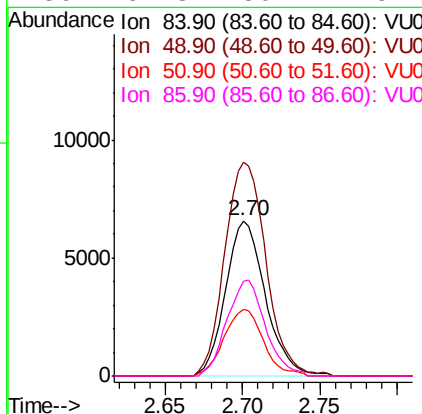
Manual Integrations  
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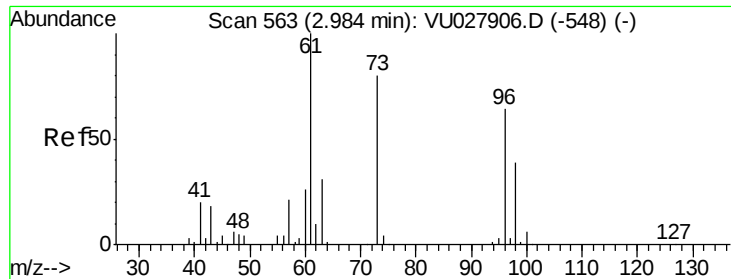
MMDadoda  
11/2/2018 9:00:03 AM



#20  
Methylene Chloride  
Concen: 5.143 ug/l  
RT: 2.70 min Scan# 475  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion   | 84    | Resp  | 11716 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 84        | 100   | 111.6 | 167.4 |
| 49        | 137.8 | 34.8  | 52.2  |
| 51        | 42.7  | 50.1  | 75.1  |
| 86        | 61.3  |       |       |





#21

trans-1,2-Dichloroethene

Concen: 5.105 ug/l

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampled :

VSTDIC005

Tot Ion: 96 Resp: 10074

Ion Ratio Lower Upper

96 100

61 152.6 125.0 187.6

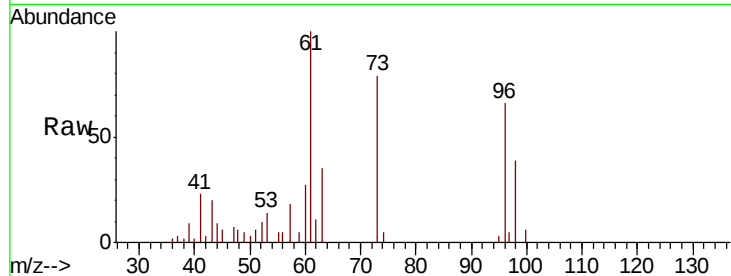
98 59.1 48.2 72.4

Manual Integrations

APPROVED

MMDadoda

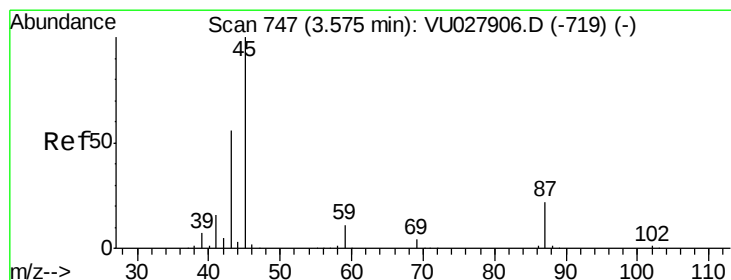
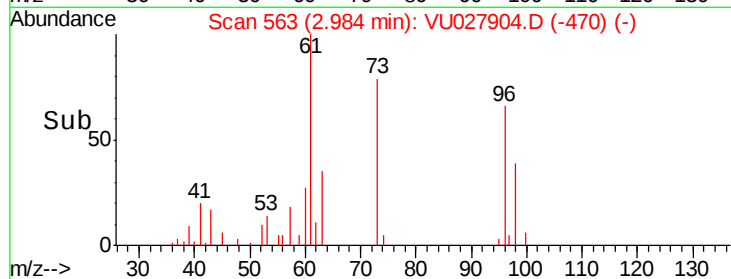
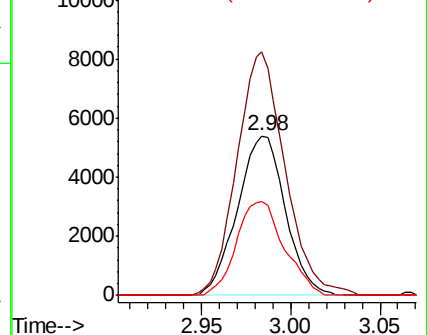
11/2/2018 9:00:03 AM



Abundance Ion 95.90 (95.60 to 96.60): VU027906.D (-548) (-)

Ion 60.90 (60.60 to 61.60): VU027906.D (-548) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-548) (-)



#22

Diisopropyl ether

Concen: 5.216 ug/l

RT: 3.58 min Scan# 747

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Tgt Ion: 45 Resp: 44295

Ion Ratio Lower Upper

45 100

43 67.0 45.0 67.6

87 21.0 17.9 26.9

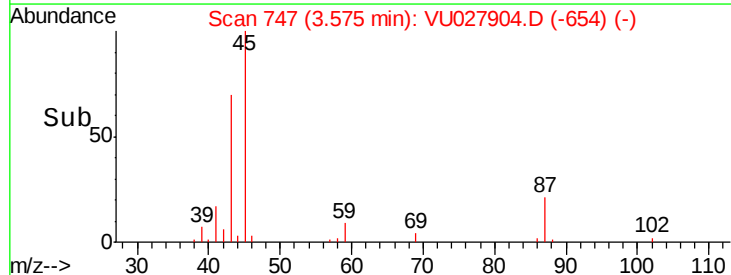
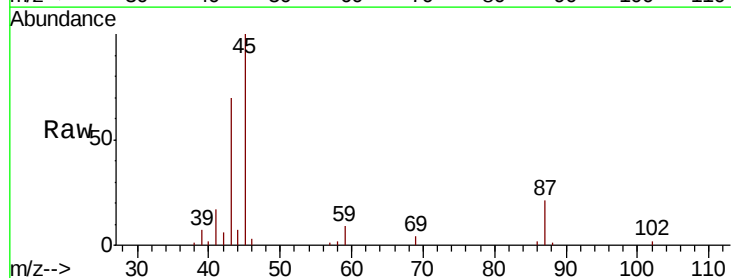
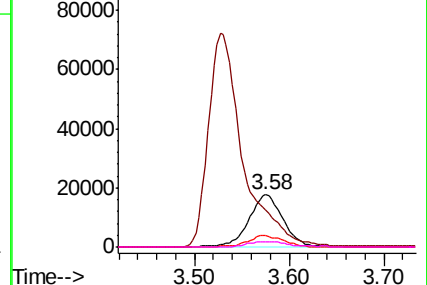
59 9.4 8.6 12.8

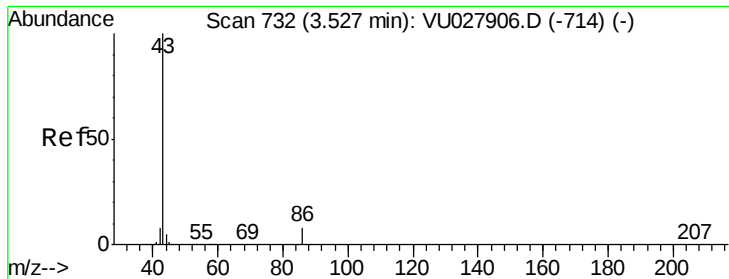
Abundance Ion 45.00 (44.70 to 45.70): VU027906.D (-719) (-)

Ion 43.00 (42.70 to 43.70): VU027906.D (-719) (-)

Ion 87.00 (86.70 to 87.70): VU027906.D (-719) (-)

Ion 59.00 (58.70 to 59.70): VU027906.D (-719) (-)





#23

Vinyl Acetate

Concen: 24.661 ug/l

RT: 3.53 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 182801

Ion Ratio Lower Upper

43 100

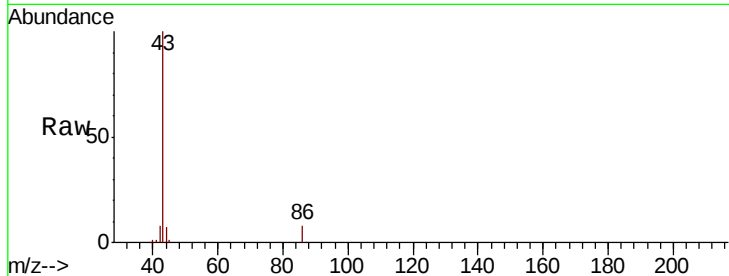
86 7.8 6.6 9.8

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11/2/2018 9:00:03 AM



Abundance Ion 43.00 (42.70 to 43.70): VU027904.D (-639) (-)

Ion 86.00 (85.70 to 86.70): VU027904.D (-639) (-)

3.53

80000

60000

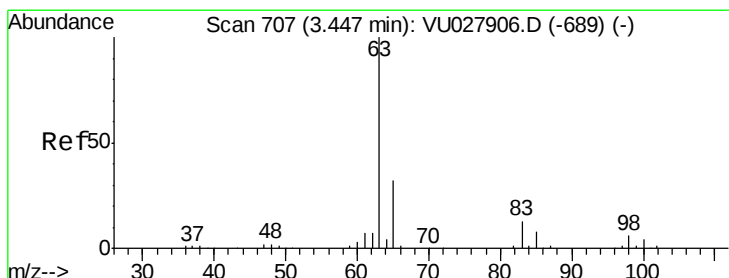
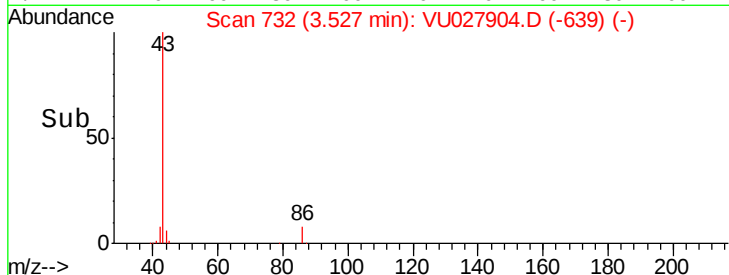
40000

20000

0

Time-->

3.40 3.50 3.60 3.70



#24

1,1-Dichloroethane

Concen: 5.126 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

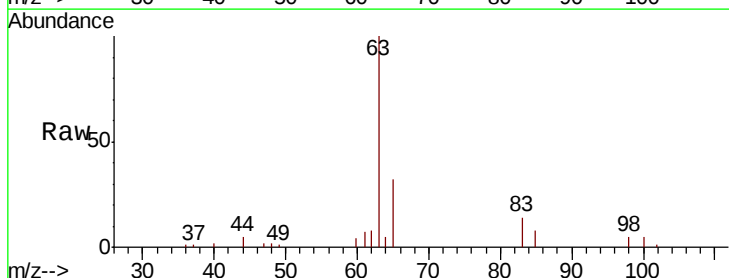
Tgt Ion: 63 Resp: 22206

Ion Ratio Lower Upper

63 100

98 5.2 2.9 8.6

100 4.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU027904.D (-614) (-)

Ion 97.90 (97.60 to 98.60): VU027904.D (-614) (-)

Ion 99.90 (99.60 to 100.60): VU027904.D (-614) (-)

3.45

12000

10000

8000

6000

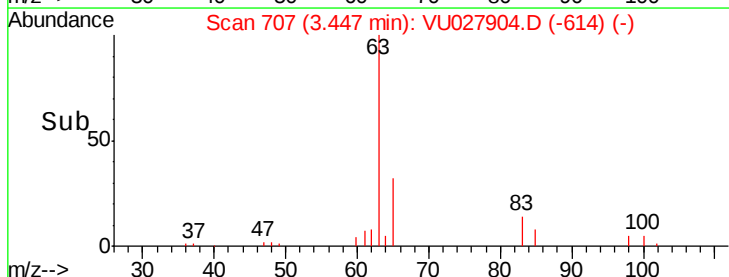
4000

2000

0

Time-->

3.40 3.45 3.50





#25

2-Butanone

Concen: 27.346 ug/l

RT: 4.27 min Scan# 963

Delta R.T. 0.01 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 61962

Ion Ratio Lower Upper

43 100

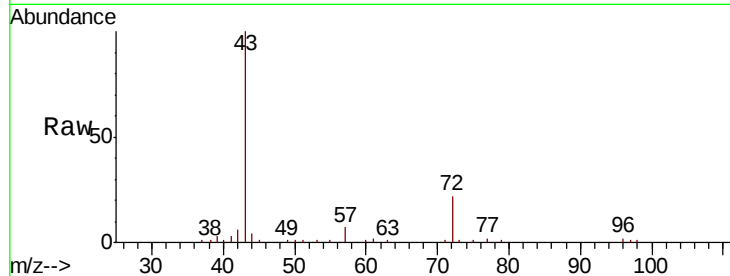
72 21.9 17.7 26.5

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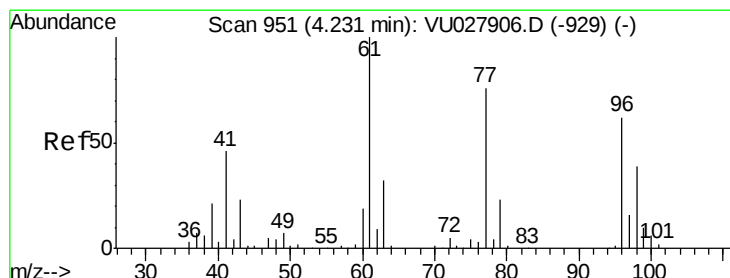
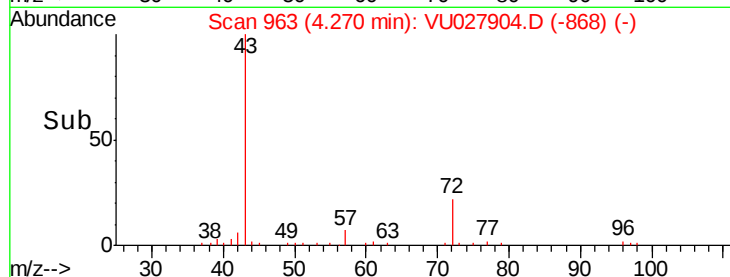
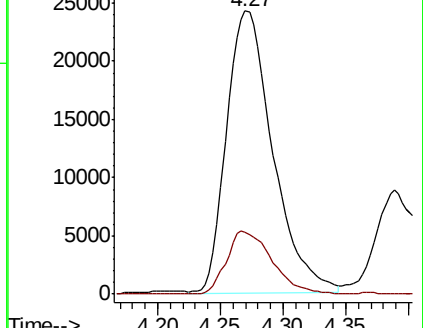
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-934) (-)

Ion 72.00 (71.70 to 72.70): VU027906.D (-934) (-)



#26

2,2-Dichloropropane

Concen: 4.724 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027904.D

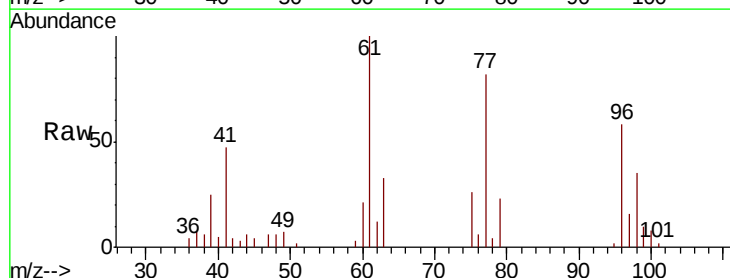
Acq: 01 Nov 2018 18:49

Tgt Ion: 77 Resp: 16565

Ion Ratio Lower Upper

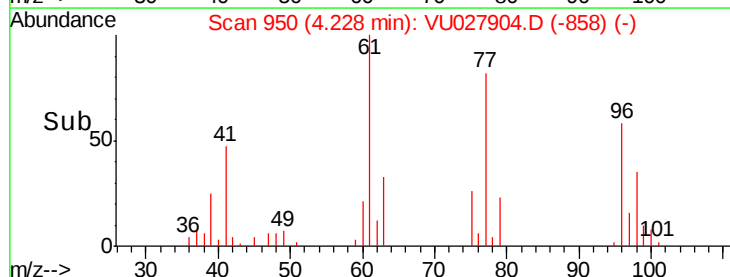
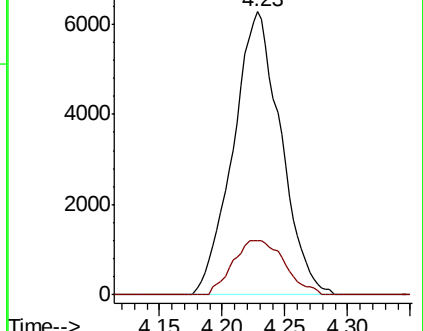
77 100

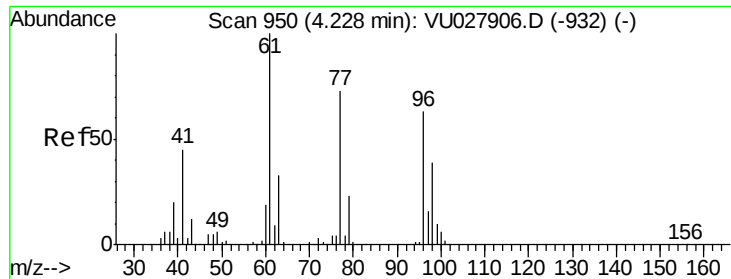
97 20.9 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VU027906.D (-929) (-)

Ion 96.90 (96.60 to 97.60): VU027906.D (-929) (-)





#27

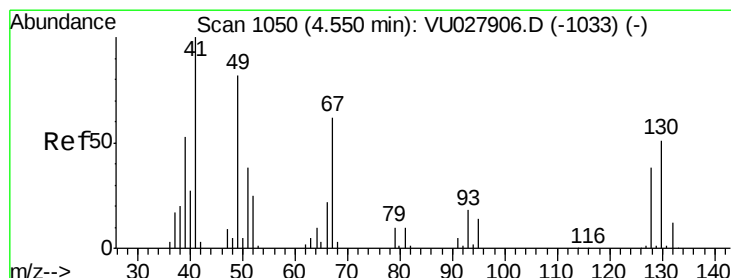
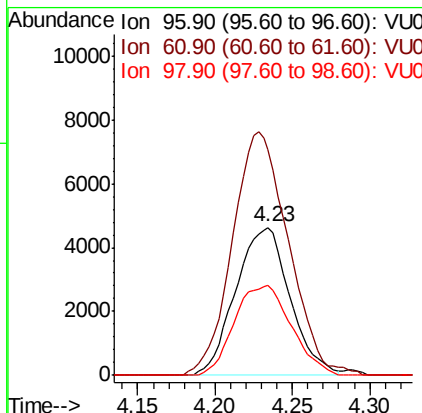
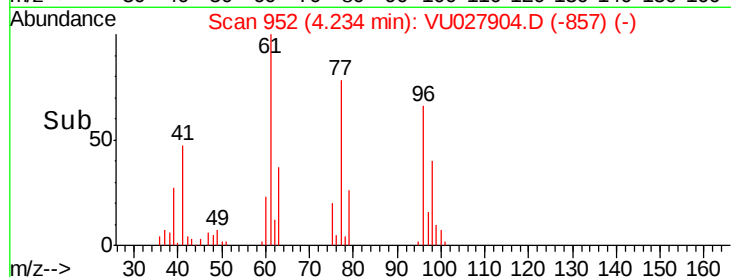
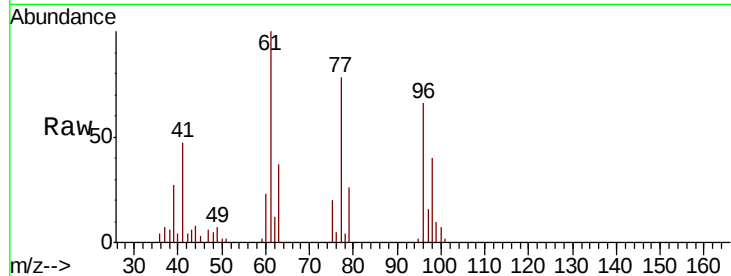
cis-1,2-Dichloroethene  
Concen: 4.986 ug/l  
RT: 4.23 min Scan# 952  
Delta R.T. 0.01 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 169.6 | 0.0   | 329.6 |
| 98      | 63.7  | 0.0   | 127.2 |

Manual Integrations  
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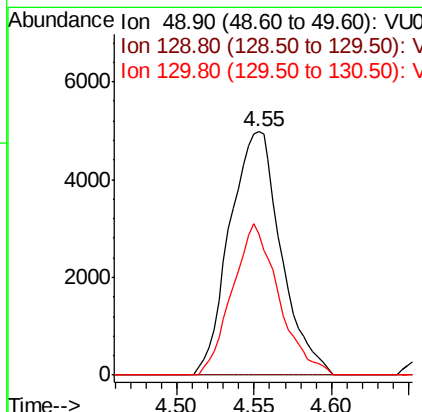
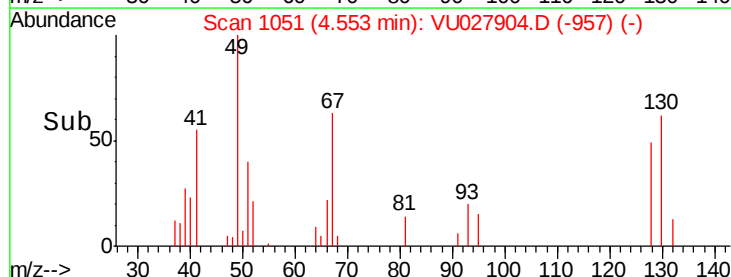
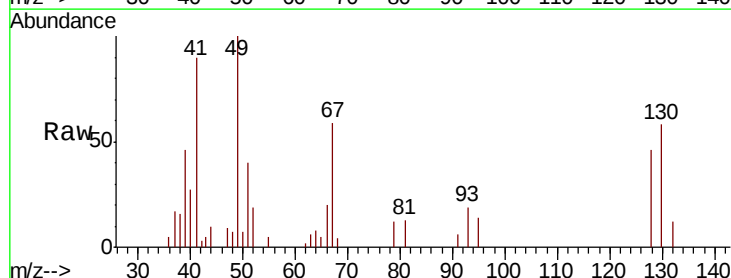
MMDadoda  
11/2/2018 9:00:03 AM

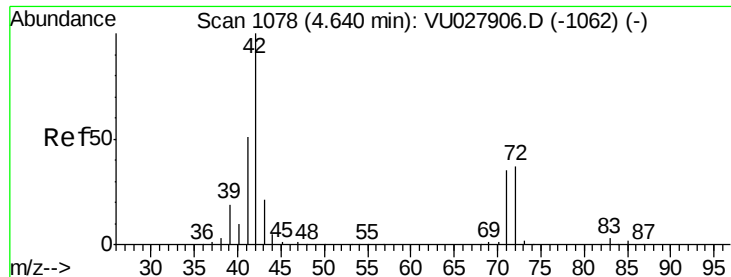


#28

Bromochloromethane  
Concen: 5.596 ug/l  
RT: 4.55 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.0   | 0.0   | 3.0   |
| 130     | 56.3  | 47.8  | 71.6  |





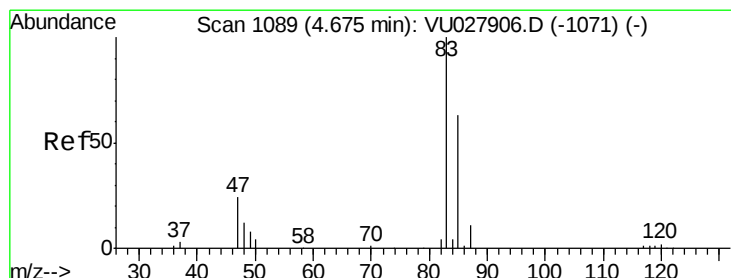
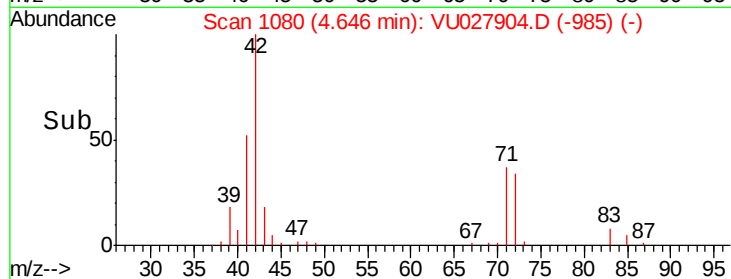
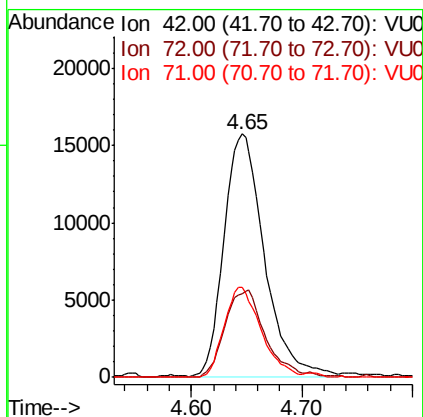
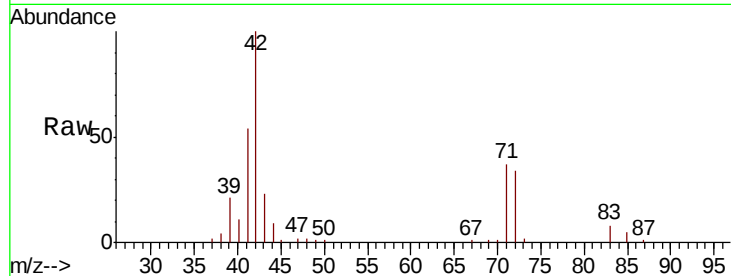
#29  
Tetrahydrofuran  
Concen: 27.906 ug/l  
RT: 4.65 min Scan# 1080  
Delta R.T. 0.01 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 35.9  | 29.4  | 44.0  |
| 71      | 33.6  | 27.9  | 41.9  |

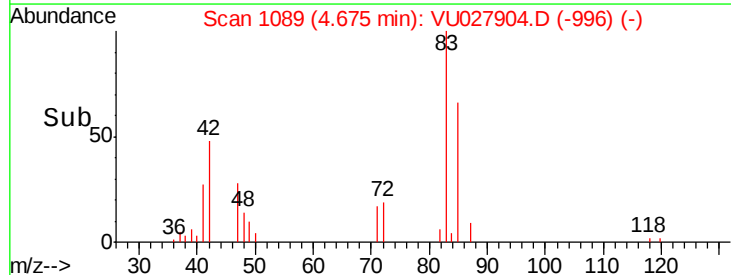
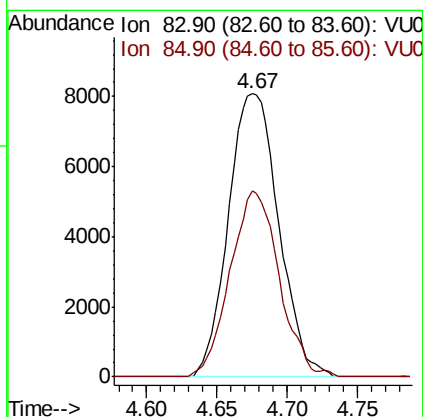
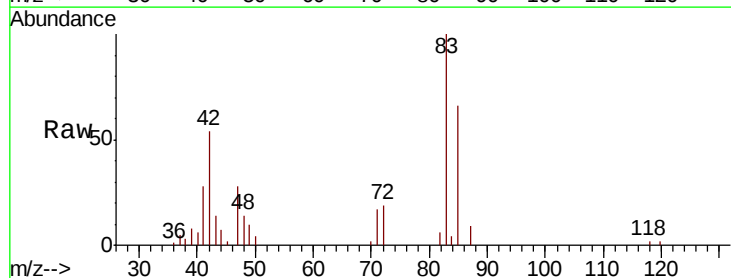
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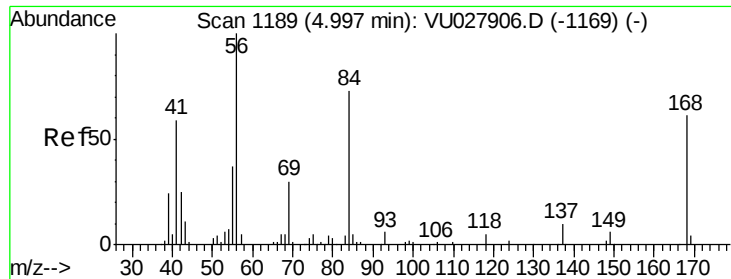
MMDadoda  
11/2/2018 9:00:03 AM



#30  
Chloroform  
Concen: 5.219 ug/l  
RT: 4.67 min Scan# 1089  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.8  | 50.6  | 76.0  |





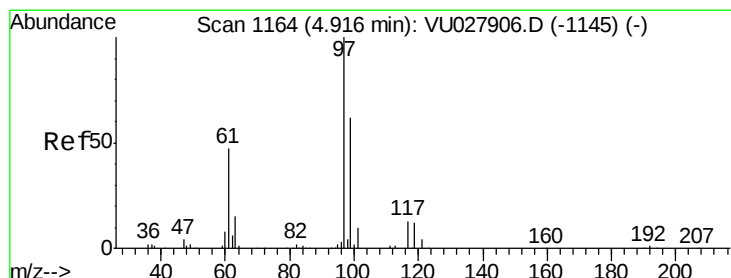
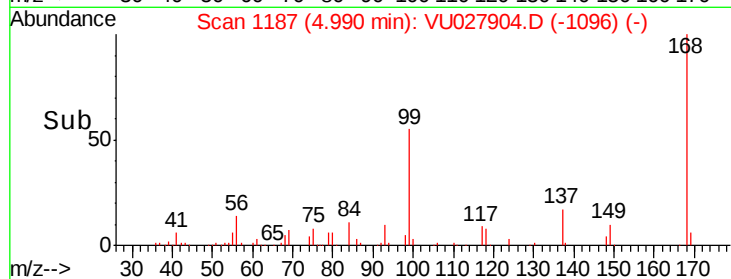
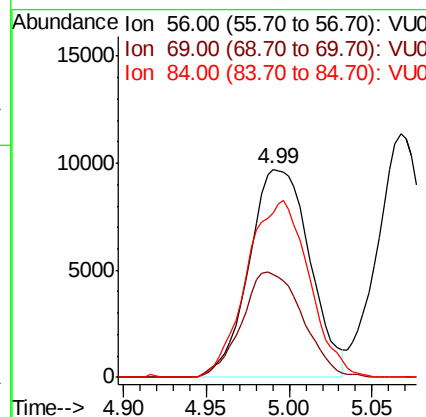
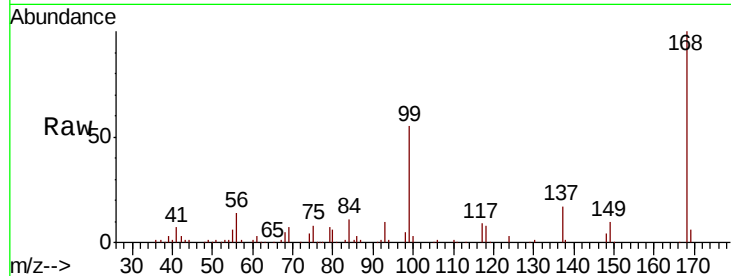
#31  
Cyclohexane  
Concen: 4.882 ug/l  
RT: 4.99 min Scan# 1187  
Delta R.T. -0.01 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 49.5  | 23.7  | 35.5# |
| 84      | 78.7  | 58.2  | 87.4  |

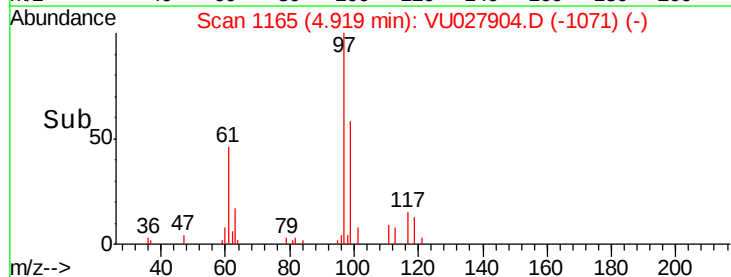
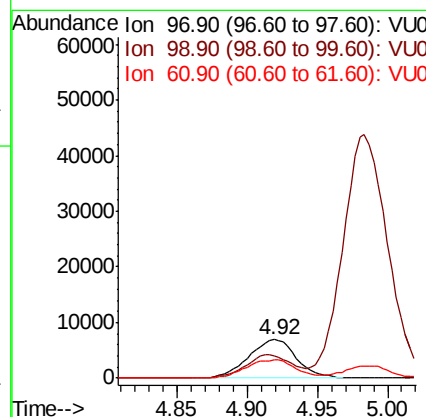
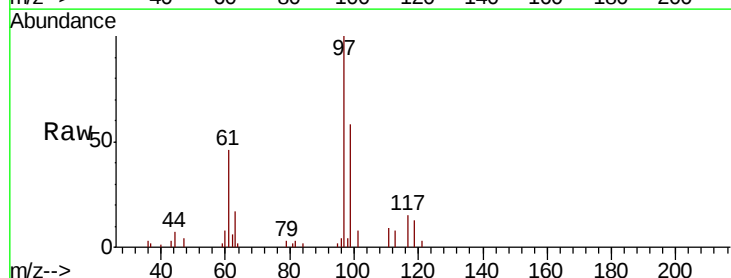
Manual Integrations  
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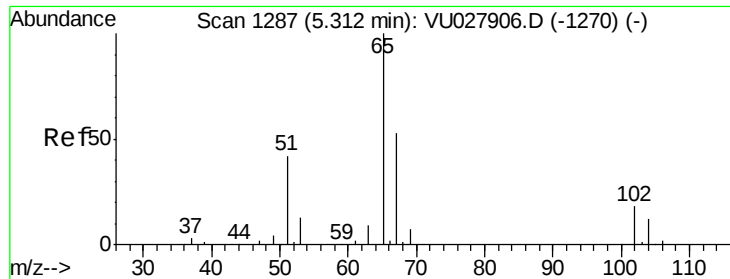
MMDadoda  
11/2/2018 9:00:03 AM



#32  
1,1,1-Trichloroethane  
Concen: 5.033 ug/l  
RT: 4.92 min Scan# 1165  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 59.1  | 50.5  | 75.7  |
| 61      | 50.2  | 38.3  | 57.5  |





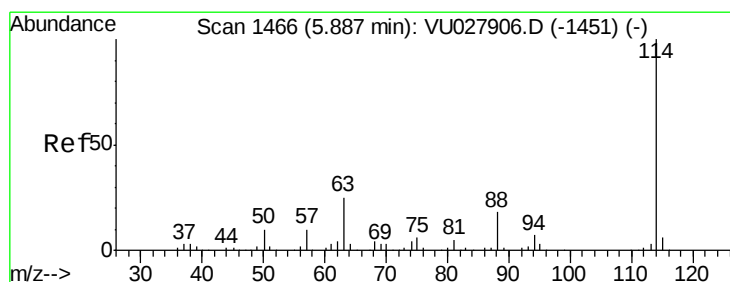
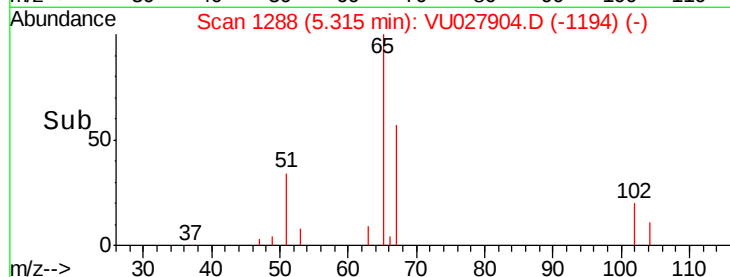
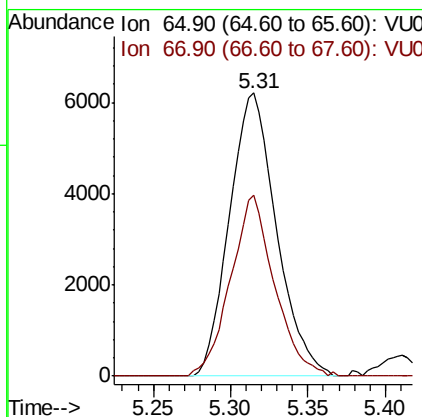
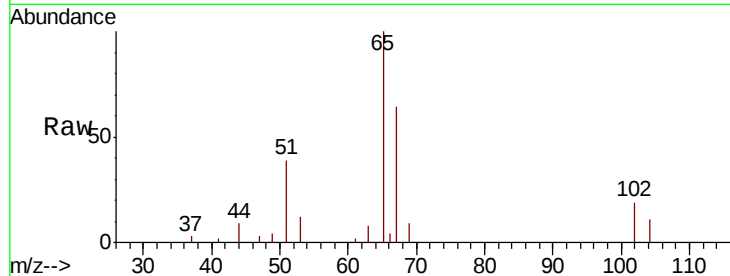
#33  
 1,2-Dichloroethane-d4  
 Concen: 4.791 ug/l  
 RT: 5.31 min Scan# 1288  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 59.6  | 0.0   | 109.0 |

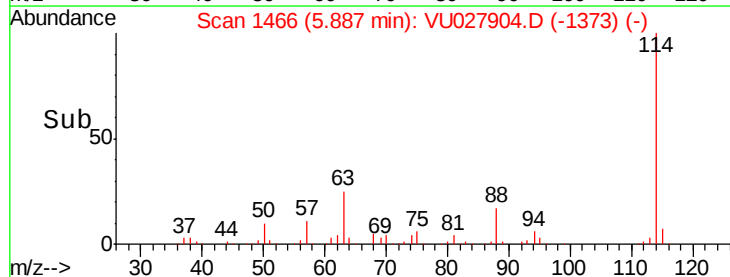
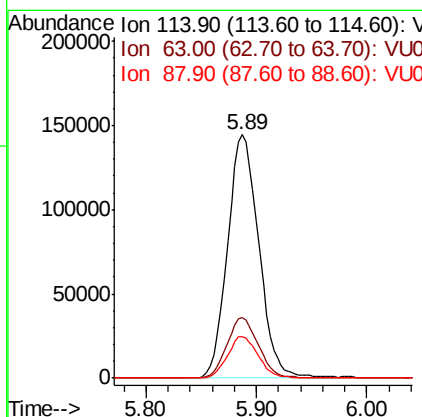
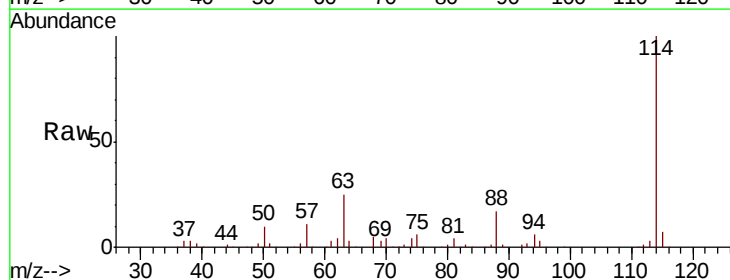
Manual Integrations  
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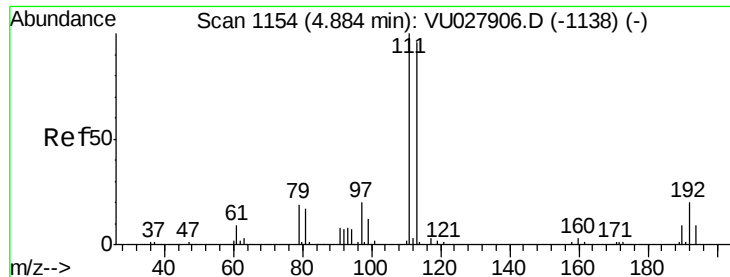
MMDadoda  
 11/2/2018 9:00:03 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.1  | 0.0   | 50.8  |
| 88      | 17.2  | 0.0   | 35.8  |





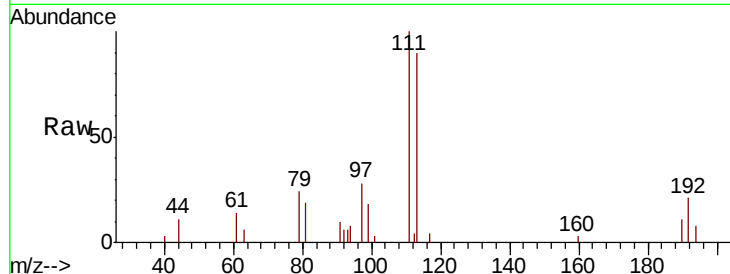
#35  
 Dibromofluoromethane  
 Concen: 4.847 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 111.4 | 83.0  | 124.6 |
| 192     | 18.5  | 15.6  | 23.4  |

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 11/2/2018 9:00:03 AM

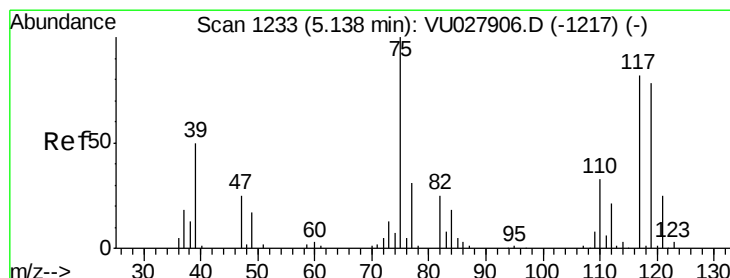
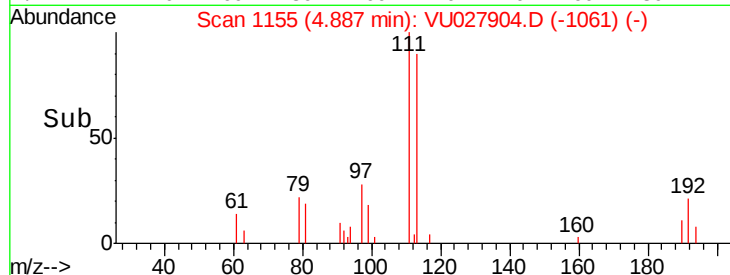
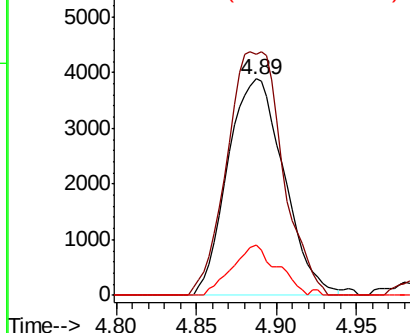


Abundance

Ion 112.80 (112.50 to 113.50): V

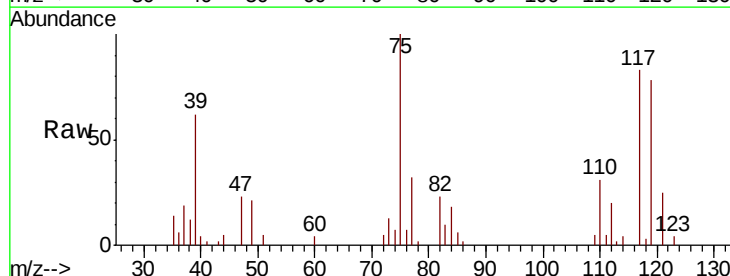
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 5.044 ug/l  
 RT: 5.14 min Scan# 1233  
 Delta R.T. -0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 29.2  | 16.5  | 49.5  |
| 77      | 31.7  | 24.9  | 37.3  |

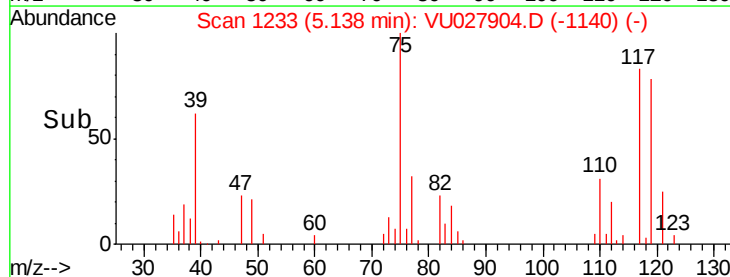
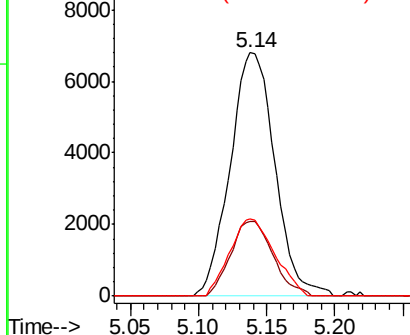


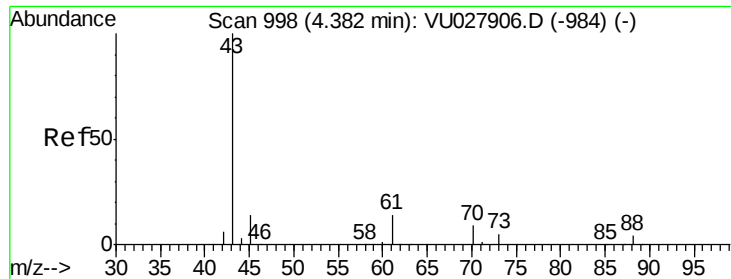
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





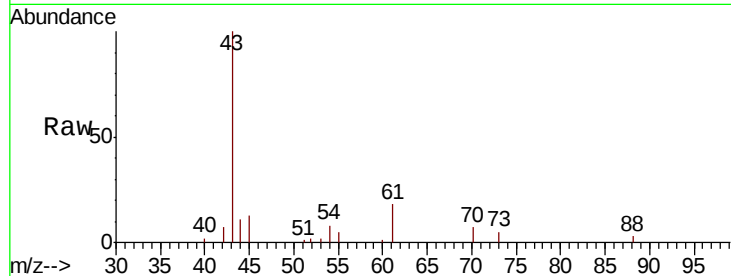
#37  
Ethyl Acetate  
Concen: 5.201 ug/l  
RT: 4.39 min Scan# 1000  
Delta R.T. 0.01 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

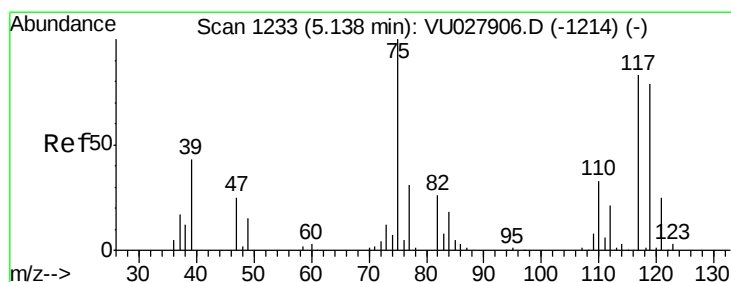
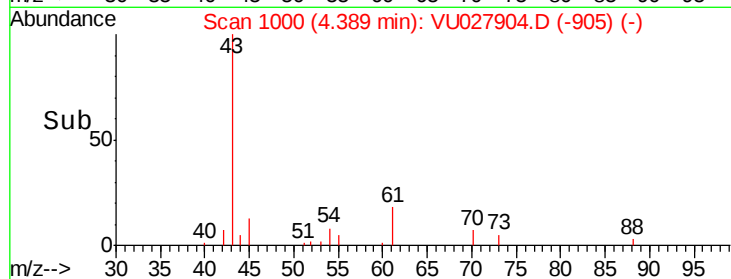
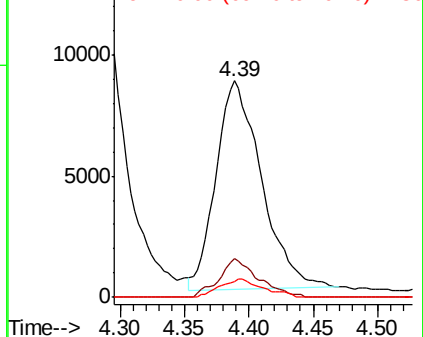
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 16.0  | 10.3  | 15.5# |
| 70      | 8.2   | 7.0   | 10.6  |

Manual Integrations  
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11/2/2018 9:00:03 AM

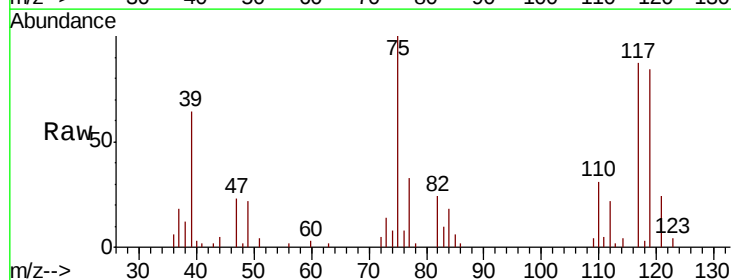


Abundance Ion 43.00 (42.70 to 43.70): VU027904.D (-984) (-)  
Ion 60.90 (60.60 to 61.60): VU027904.D (-984) (-)  
Ion 70.00 (69.70 to 70.70): VU027904.D (-984) (-)

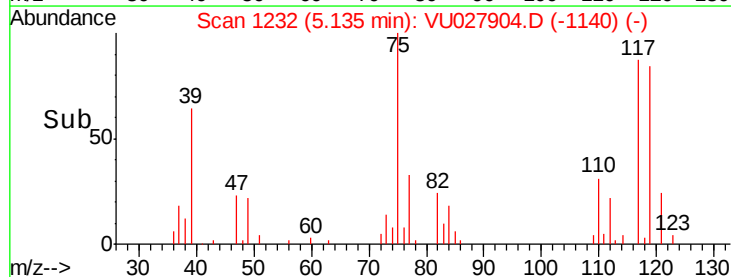
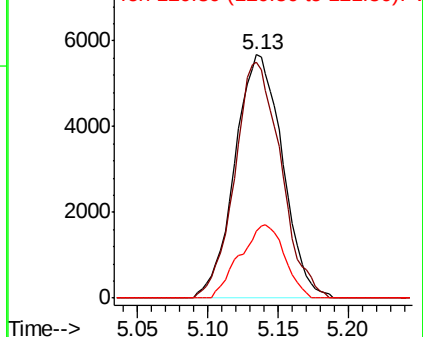


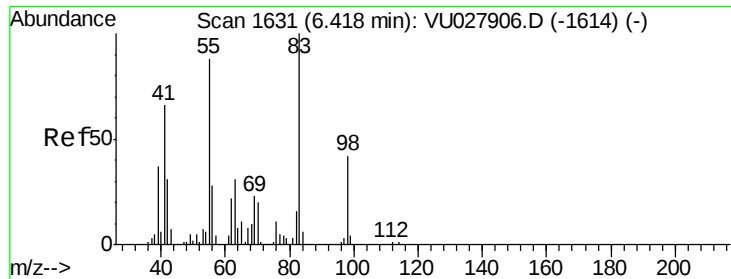
#38  
Carbon Tetrachloride  
Concen: 4.833 ug/l  
RT: 5.13 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 97.1  | 76.0  | 114.0 |
| 121     | 27.3  | 24.5  | 36.7  |



Abundance Ion 116.80 (116.50 to 117.50): VU027904.D (-1140) (-)  
Ion 118.80 (118.50 to 119.50): VU027904.D (-1140) (-)  
Ion 120.80 (120.50 to 121.50): VU027904.D (-1140) (-)





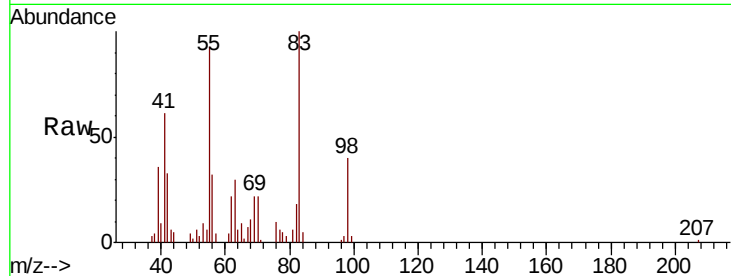
#39  
Methylvlcyclohexane  
Concen: 4.898 ug/l  
RT: 6.42 min Scan# 1631  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

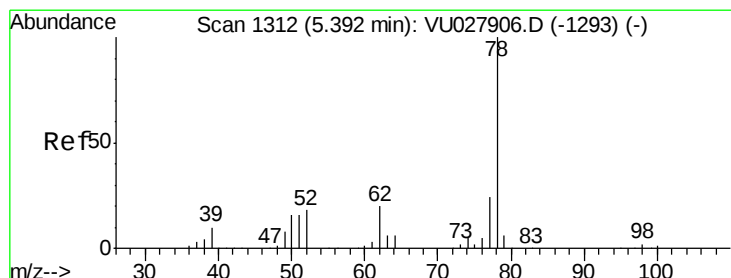
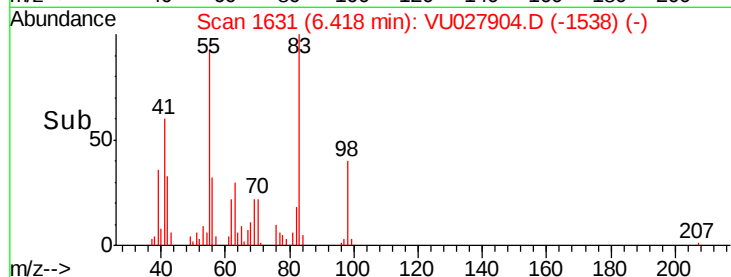
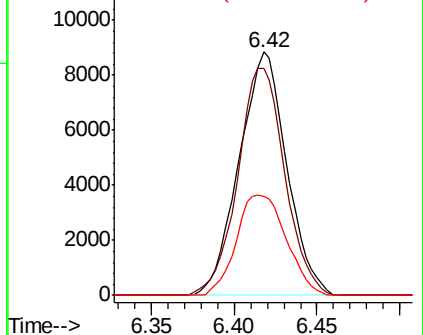
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 93.2  | 70.3  | 105.5 |
| 98      | 40.4  | 34.0  | 51.0  |

Manual Integrations  
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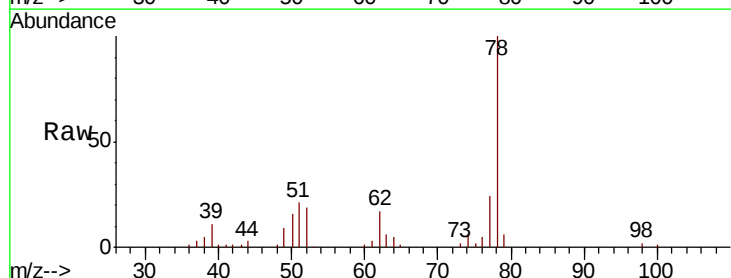


Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

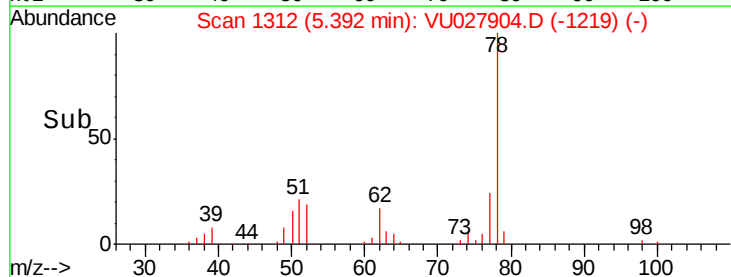
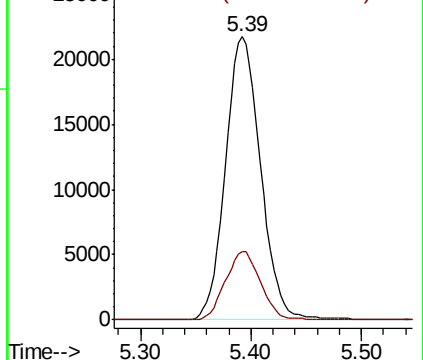


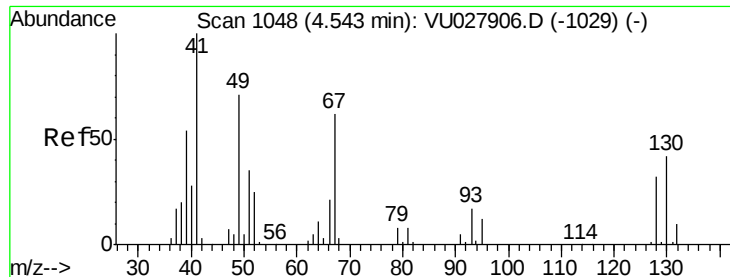
#40  
Benzene  
Concen: 5.283 ug/l  
RT: 5.39 min Scan# 1312  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.3  | 19.3  | 28.9  |



Abundance Ion 78.00 (77.70 to 78.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0





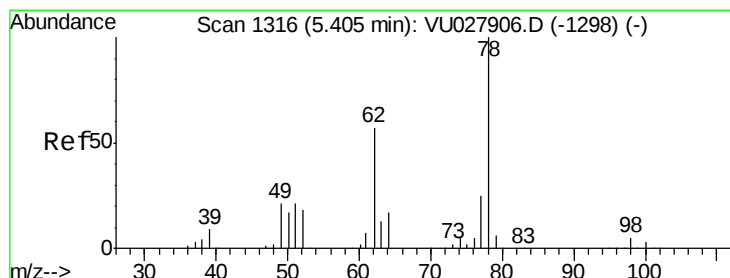
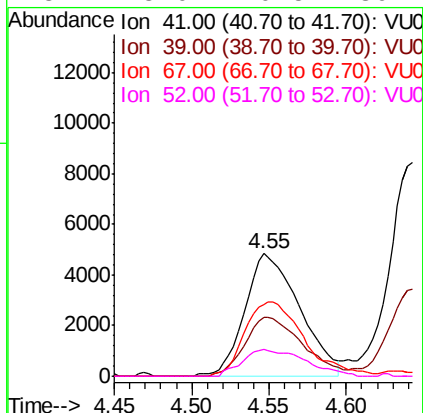
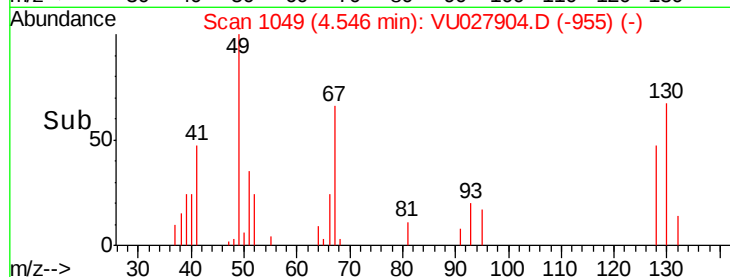
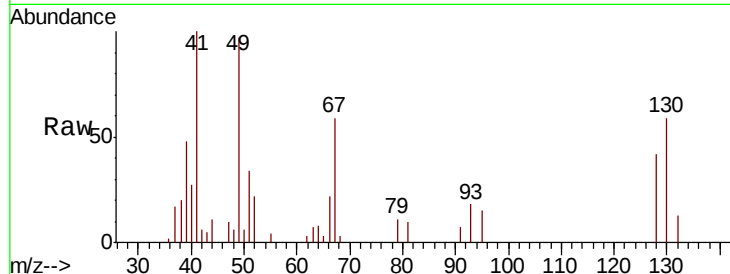
#41  
Methacrylonitrile  
Concen: 5.207 ug/l  
RT: 4.55 min Scan# 1049  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 41      | 100  |       |       |       |
| 39      | 51.0 | 42.2  | 63.4  |       |
| 67      | 65.2 | 49.5  | 74.3  |       |
| 52      | 25.0 | 20.5  | 30.7  |       |

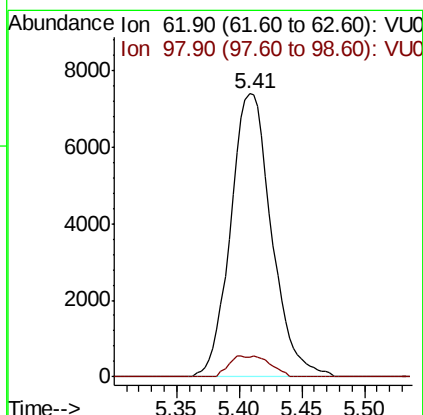
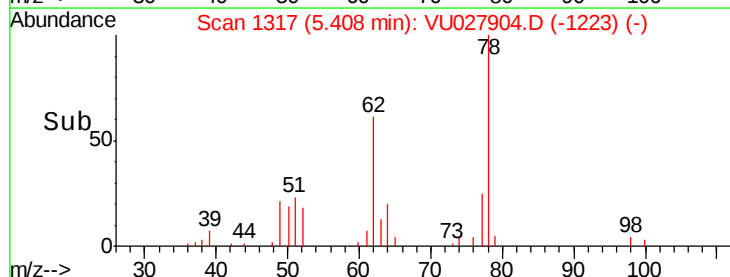
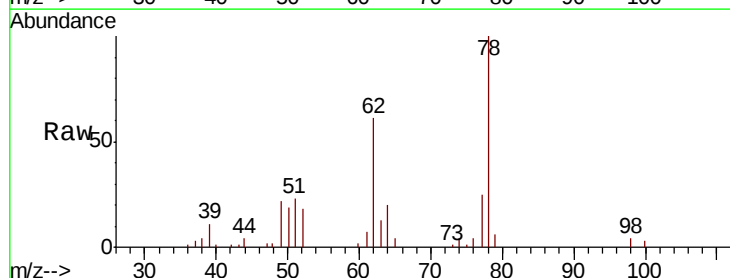
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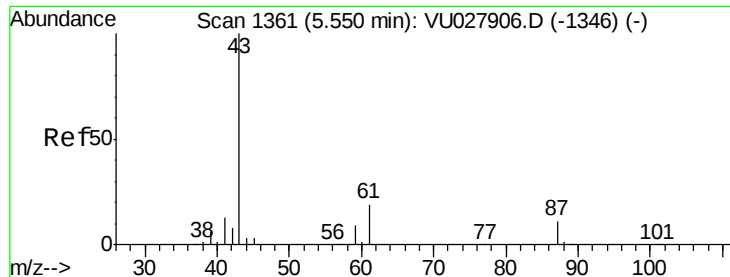
MMDadoda  
11/2/2018 9:00:03 AM



#42  
1,2-Dichloroethane  
Concen: 5.047 ug/l  
RT: 5.41 min Scan# 1317  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 62      | 100 |       |       |       |
| 98      | 7.3 | 0.0   | 17.2  |       |





#43

Isopropyl Acetate

Concen: 5.330 ug/l

RT: 5.56 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

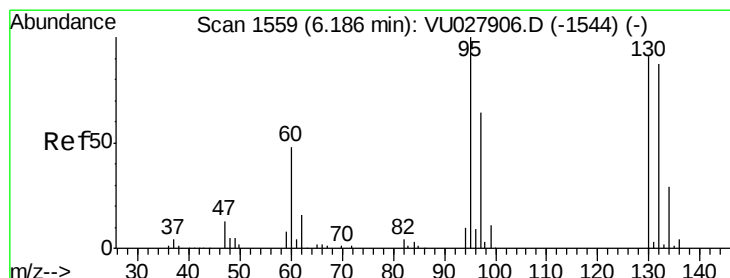
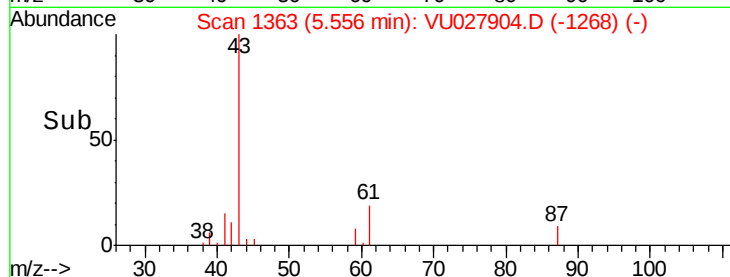
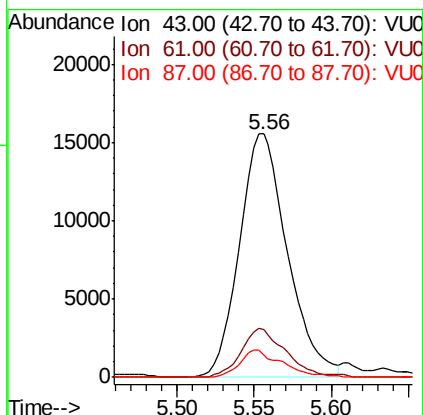
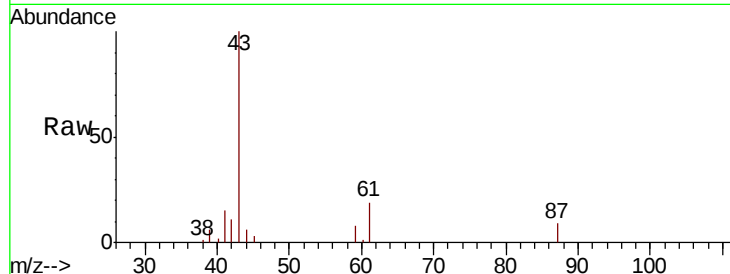
ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 33565 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 18.7  | 15.0  | 22.4  |
| 87       | 10.1  | 8.6   | 12.8  |

Manual Integrations  
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11/2/2018 9:00:03 AM



#44

Trichloroethene

Concen: 4.938 ug/l

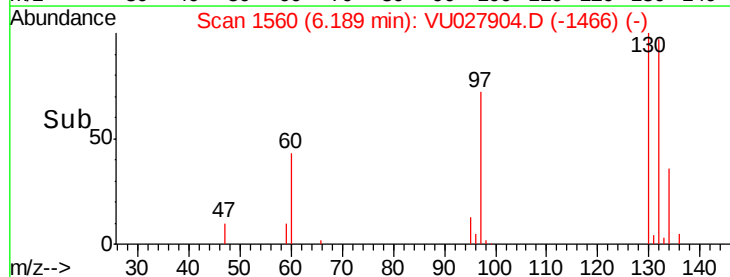
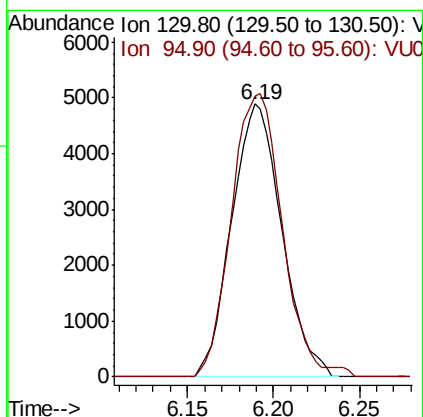
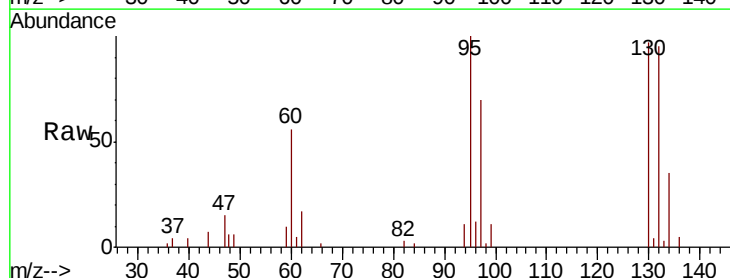
RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 9890  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 102.7 | 0.0   | 219.2 |





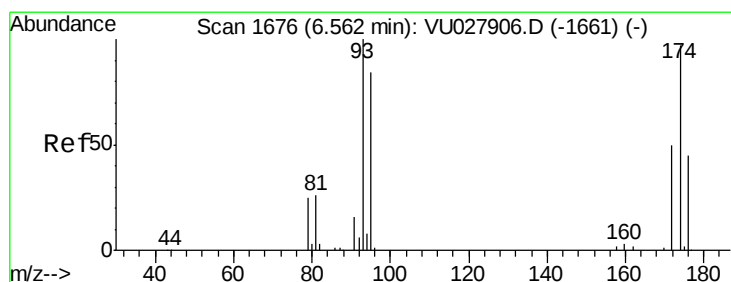
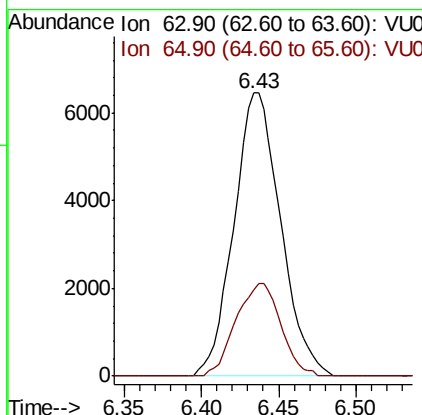
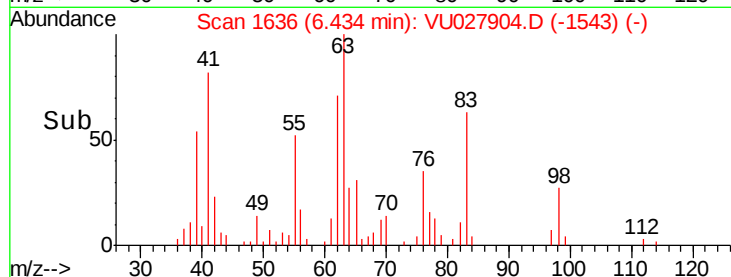
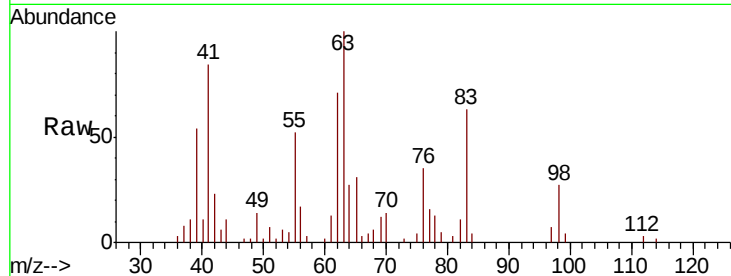
#45  
 1,2-Dichloropropane  
 Concen: 5.214 ug/l  
 RT: 6.43 min Scan# 1636  
 Delta R.T. -0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Tot Ion: 63 Resp: 13571  
 Ion Ratio Lower Upper  
 63 100  
 65 30.6 24.4 36.6

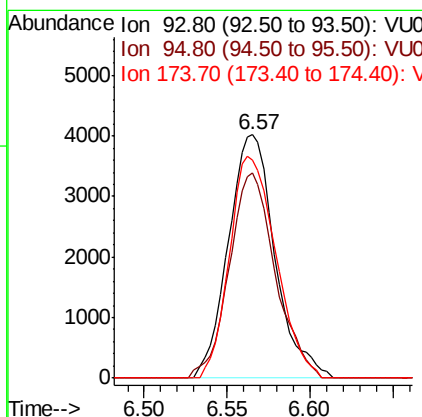
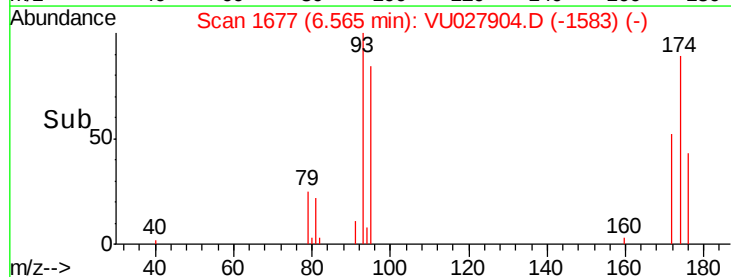
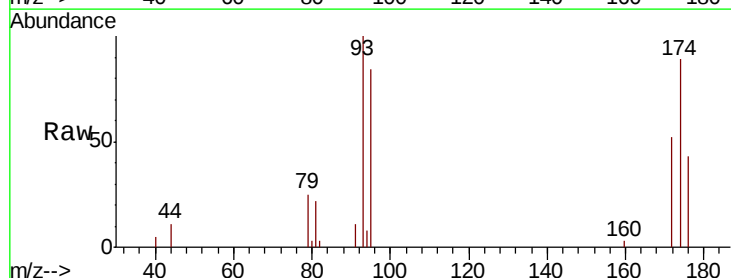
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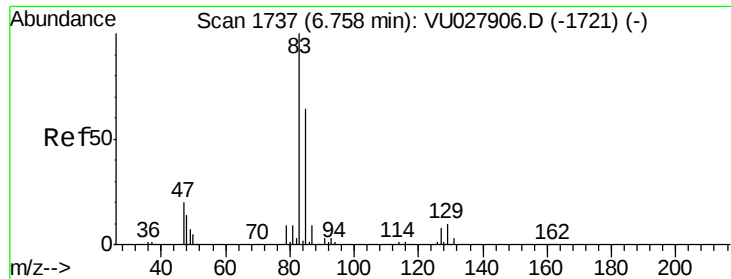
MMDadoda  
 11/2/2018 9:00:03 AM



#46  
 Dibromomethane  
 Concen: 5.329 ug/l  
 RT: 6.57 min Scan# 1677  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Tgt Ion: 93 Resp: 7838  
 Ion Ratio Lower Upper  
 93 100  
 95 83.3 68.5 102.7  
 174 90.7 76.1 114.1





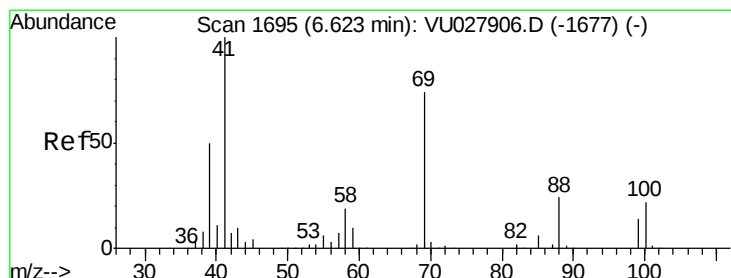
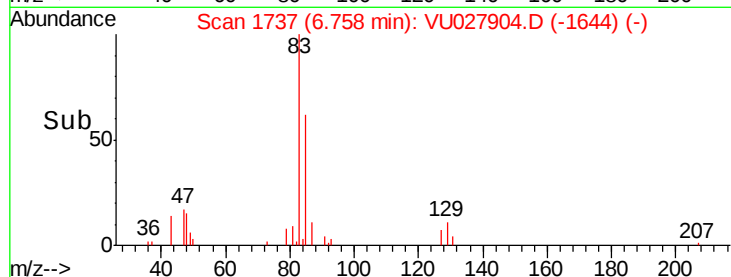
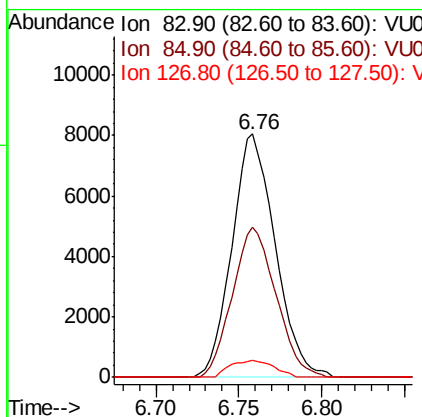
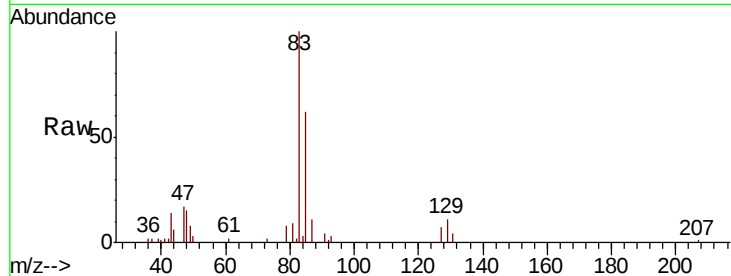
#47  
Bromodichloromethane  
Concen: 4.827 ug/l  
RT: 6.76 min Scan# 1737  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 61.6  | 51.0  | 76.6  |
| 127     | 7.0   | 6.2   | 9.4   |

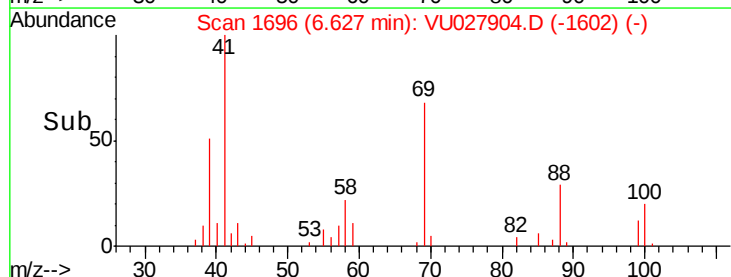
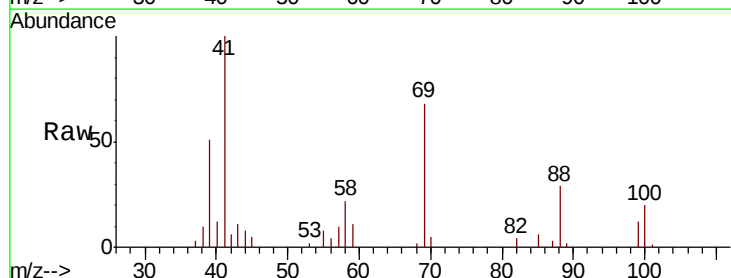
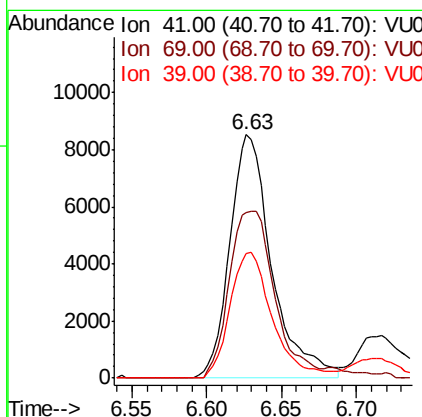
Manual Integrations  
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11/2/2018 9:00:03 AM



#48  
Methyl methacrylate  
Concen: 5.317 ug/l  
RT: 6.63 min Scan# 1696  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 74.2  | 59.8  | 89.8  |
| 39      | 52.2  | 40.0  | 60.0  |





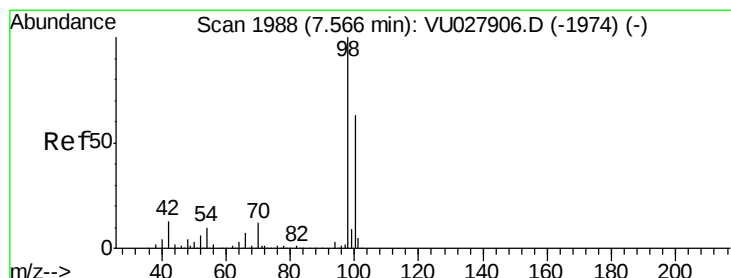
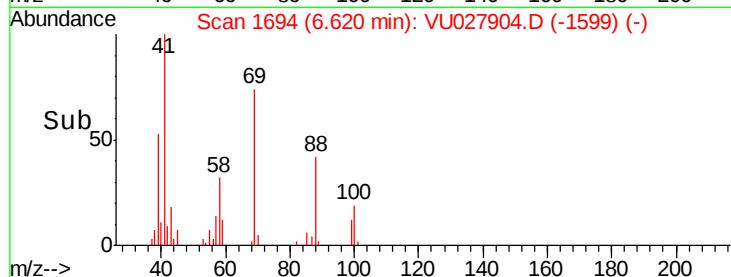
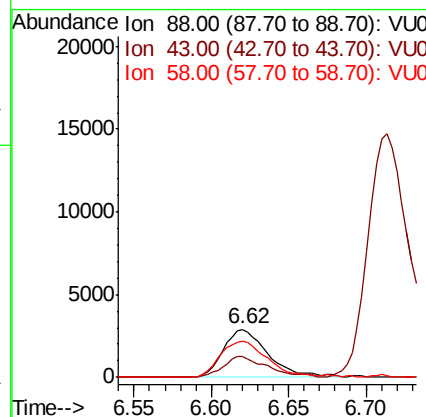
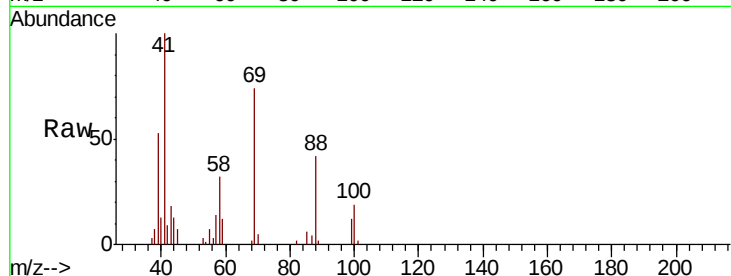
#49  
1,4-Dioxane  
Concen: 108.637 ug/l  
RT: 6.62 min Scan# 1694  
Delta R.T. 0.01 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 43.0  | 30.5  | 45.7  |
| 58      | 79.1  | 67.1  | 100.7 |

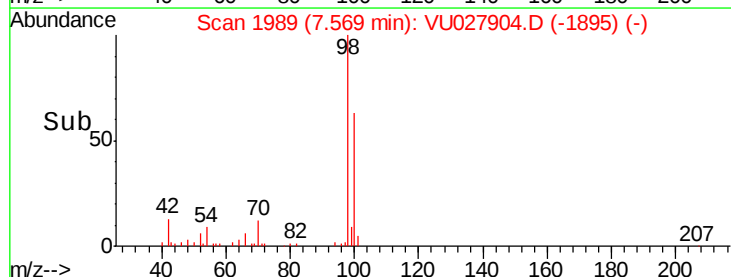
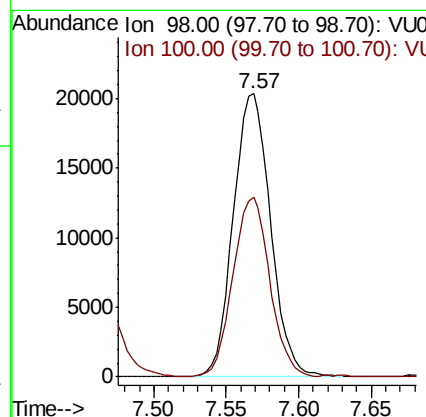
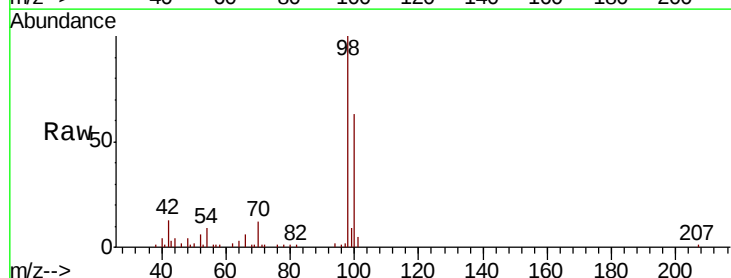
Manual Integrations  
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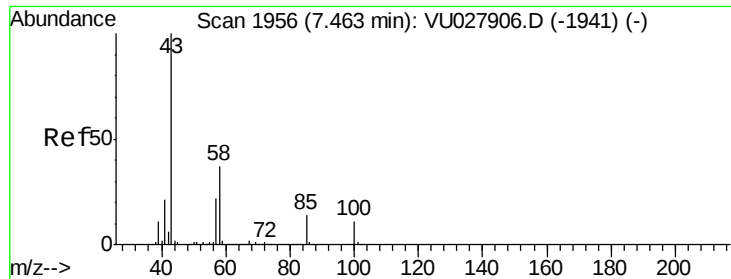
MMDadoda  
11/2/2018 9:00:03 AM



#50  
Toluene-d8  
Concen: 5.038 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 62.7  | 50.1  | 75.1  |





#51

4-Methyl-2-Pentanone

Concen: 27.818 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 114535

Ion Ratio Lower Upper

43 100

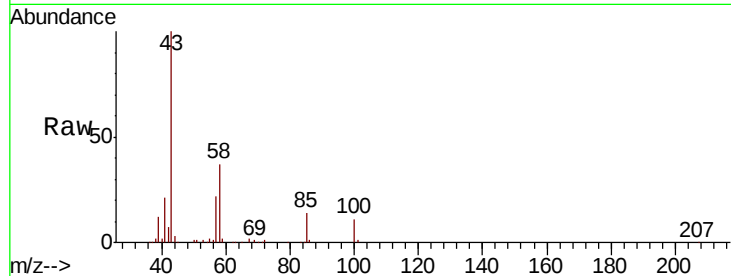
58 36.3 29.5 44.3

Manual Integrations

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11/2/2018 9:00:03 AM



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

7.46

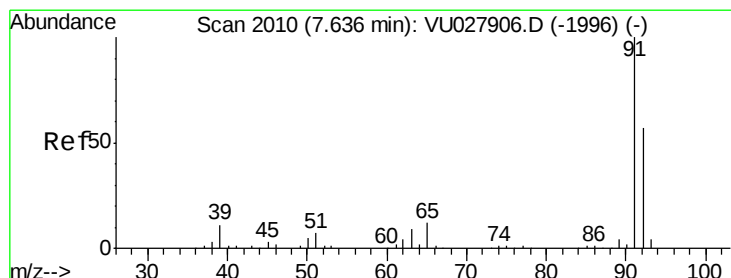
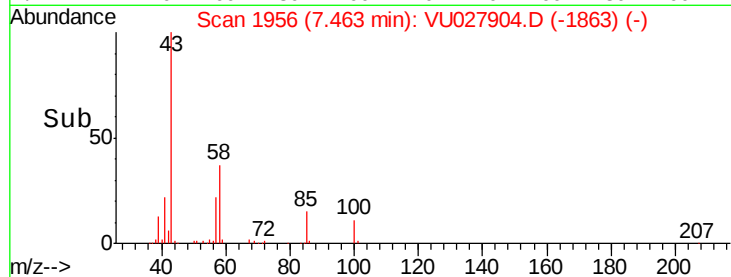
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 5.051 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027904.D

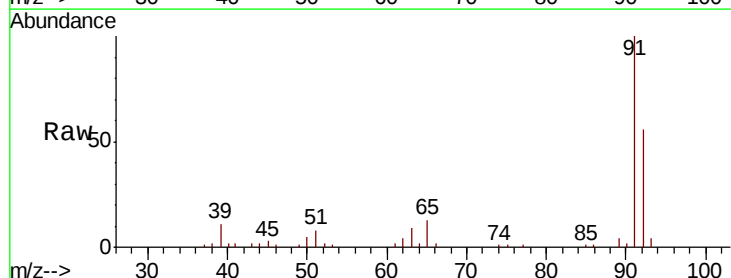
Acq: 01 Nov 2018 18:49

Tgt Ion: 92 Resp: 26941

Ion Ratio Lower Upper

92 100

91 172.9 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VU027906.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU027906.D (-1996) (-)

7.64

30000

25000

20000

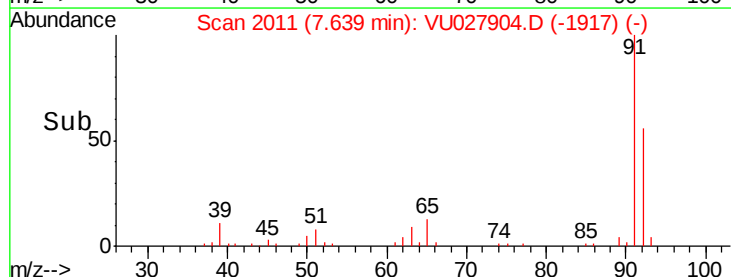
15000

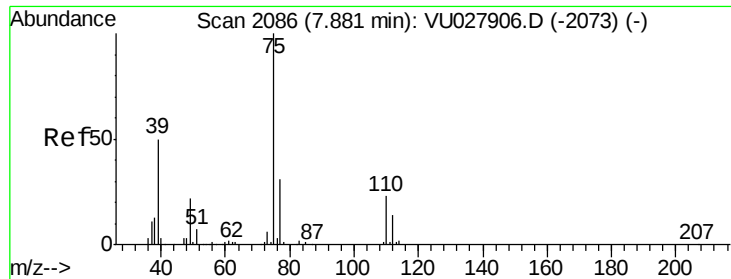
10000

5000

0

Time-->





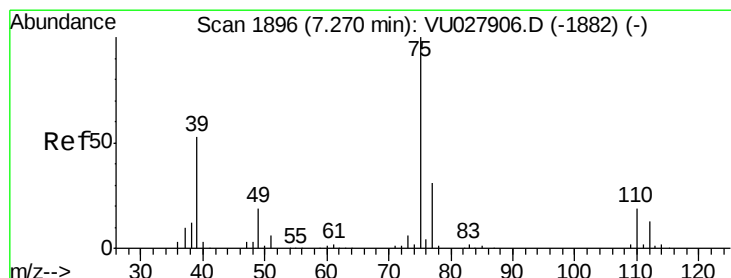
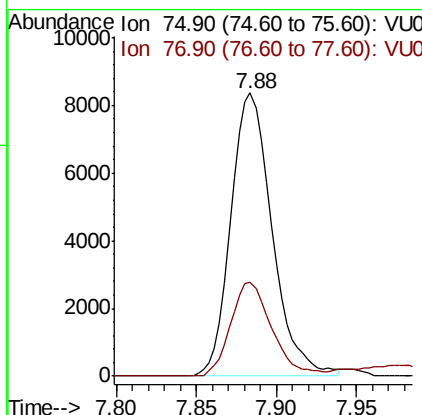
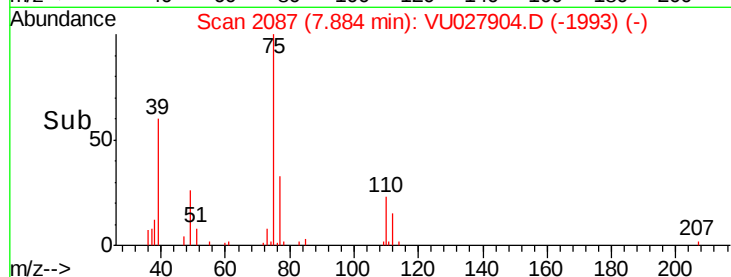
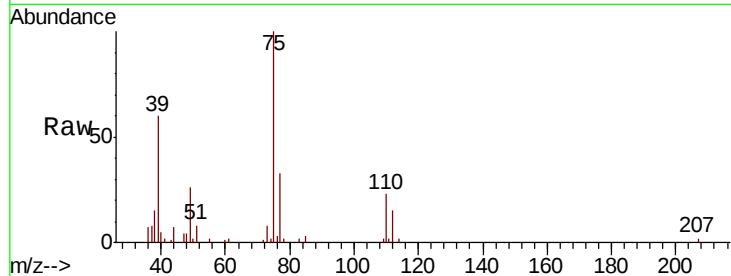
#53  
 t-1,3-Dichloropropene  
 Concen: 4.164 ug/l  
 RT: 7.88 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Tot Ion: 75 Resp: 14756  
 Ion Ratio Lower Upper  
 75 100  
 77 33.4 25.1 37.7

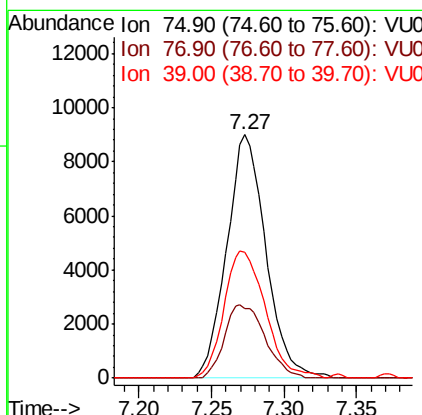
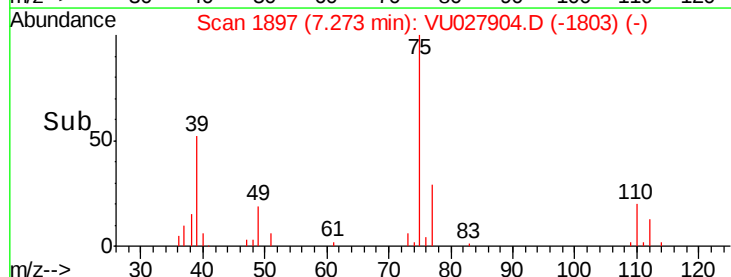
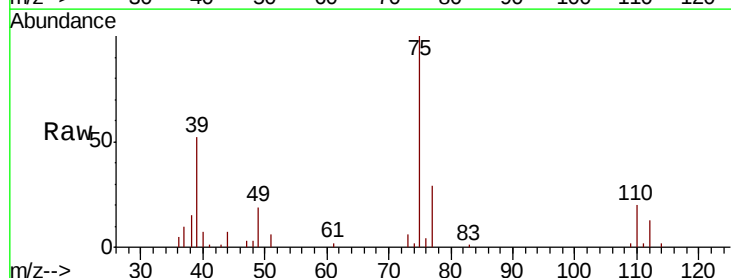
Manual Integrations  
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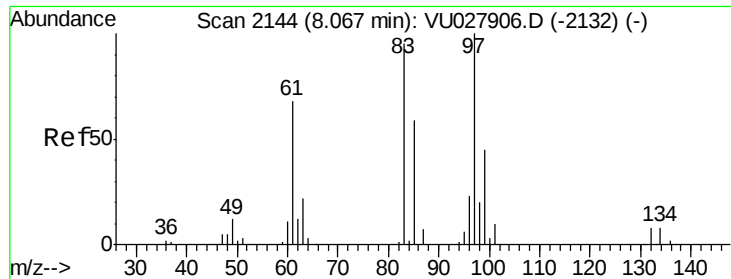
MMDadoda  
 11/2/2018 9:00:03 AM



#54  
 cis-1,3-Dichloropropene  
 Concen: 4.419 ug/l  
 RT: 7.27 min Scan# 1897  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Tgt Ion: 75 Resp: 16849  
 Ion Ratio Lower Upper  
 75 100  
 77 28.7 24.6 37.0  
 39 51.5 42.6 64.0





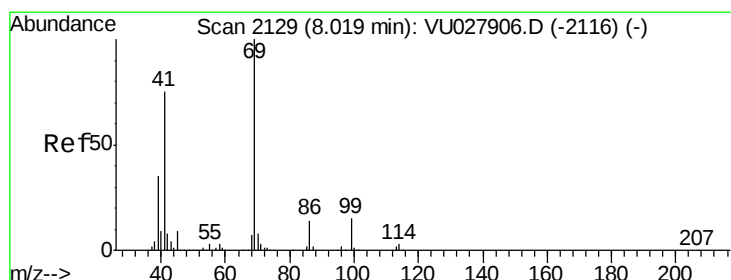
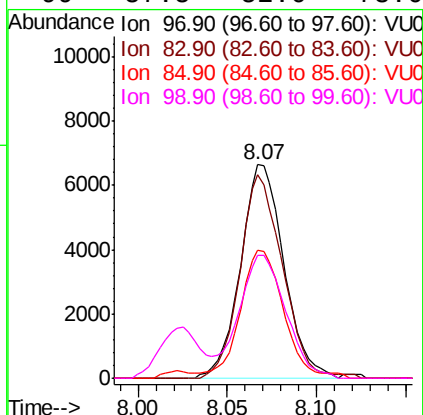
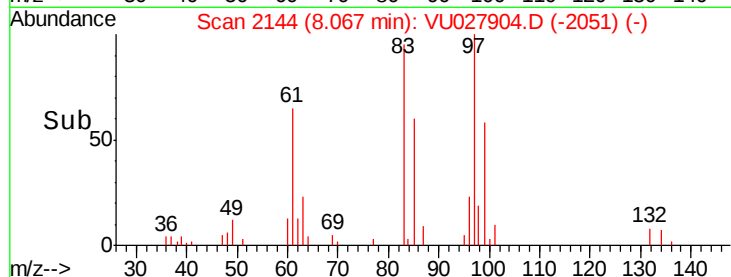
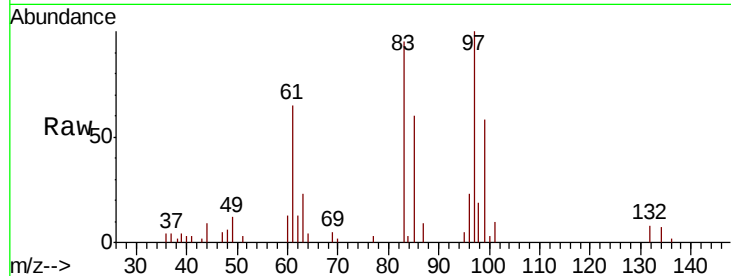
#55  
 1,1,2-Trichloroethane  
 Concen: 5.329 ug/l  
 RT: 8.07 min Scan# 2144  
 Delta R.T. -0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 11271 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 95.2  | 76.1  | 114.1 |
| 85       | 57.8  | 48.9  | 73.3  |
| 99       | 57.5  | 52.0  | 78.0  |

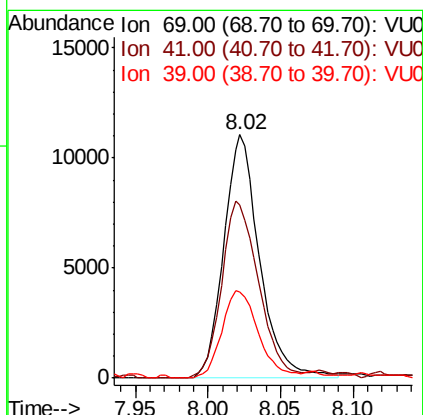
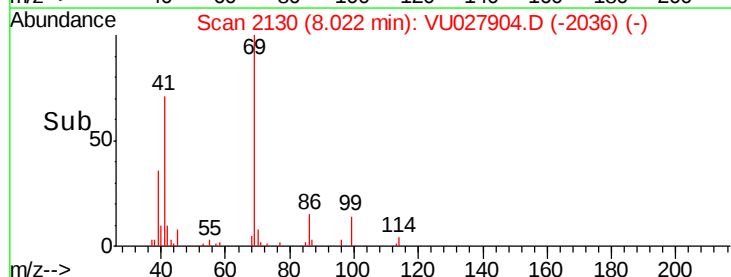
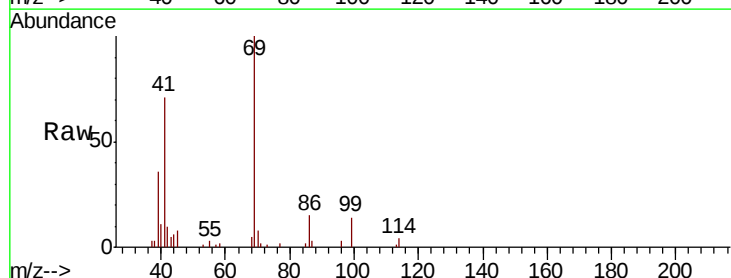
Manual Integrations  
 APPROVED

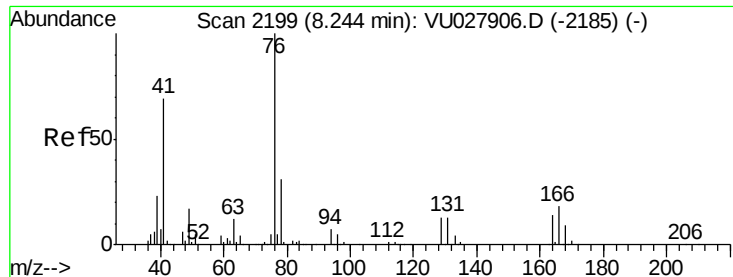
MMDadoda  
 11/2/2018 9:00:03 AM



#56  
 Ethyl methacrylate  
 Concen: 5.327 ug/l  
 RT: 8.02 min Scan# 2130  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 18915 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 75.1  | 59.8  | 89.6  |
| 39       | 36.6  | 28.6  | 42.8  |





#57

1,3-Dichloropropane

Concen: 5.035 ug/l

RT: 8.24 min Scan# 2199

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 20596

Ion Ratio Lower Upper

76 100

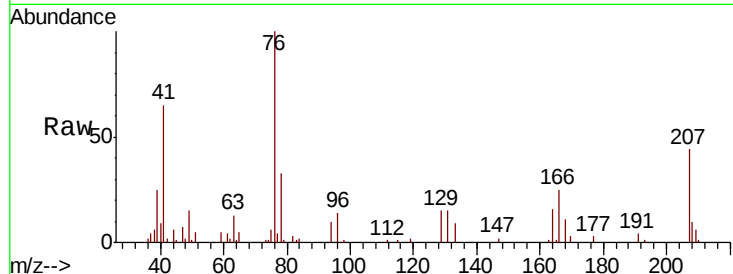
78 33.2 25.3 37.9

Manual Integrations

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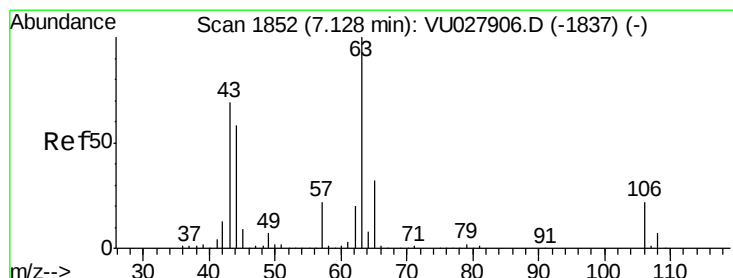
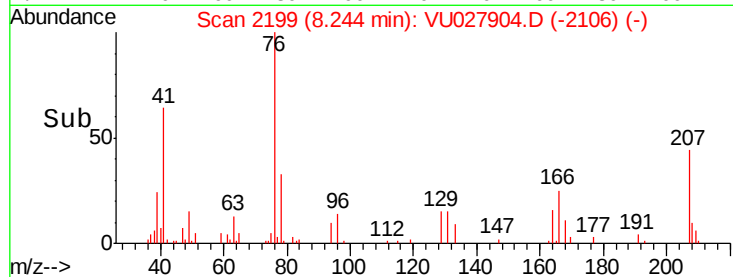
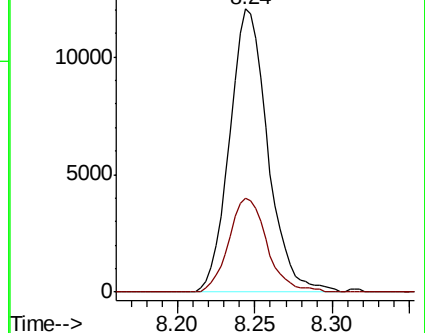
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 25.668 ug/l

RT: 7.13 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VU027904.D

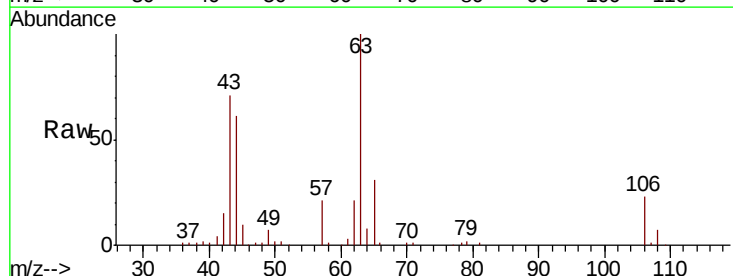
Acq: 01 Nov 2018 18:49

Tgt Ion: 63 Resp: 49898

Ion Ratio Lower Upper

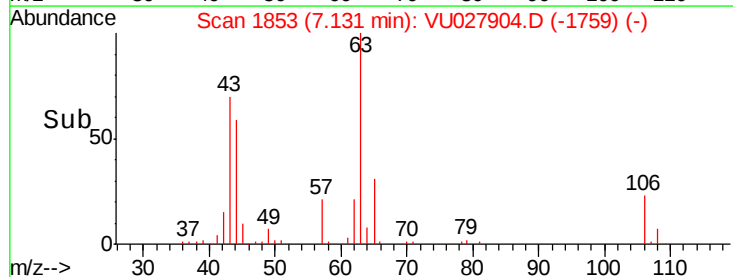
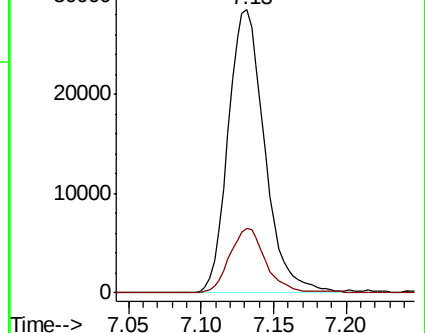
63 100

106 22.2 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





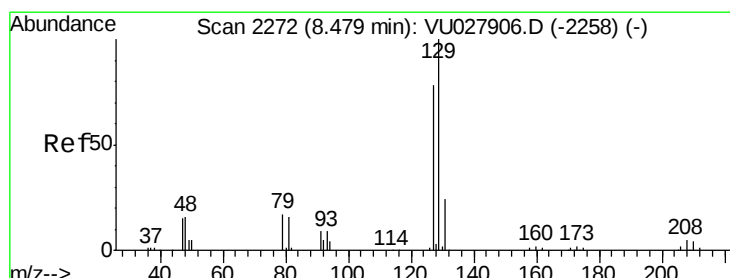
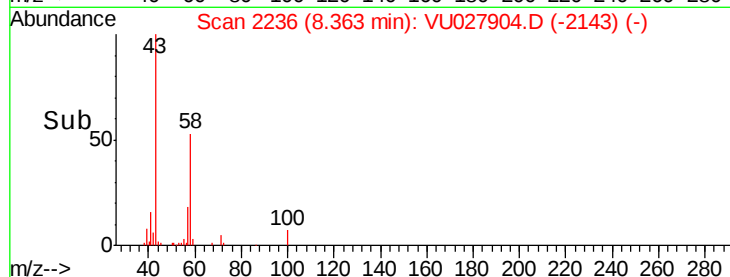
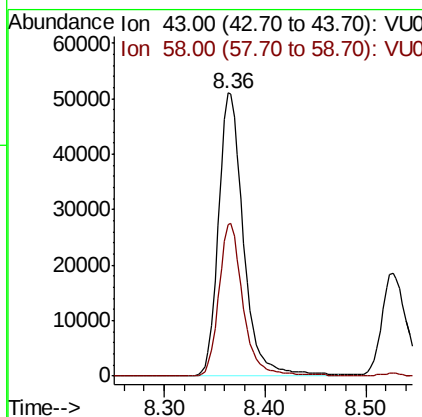
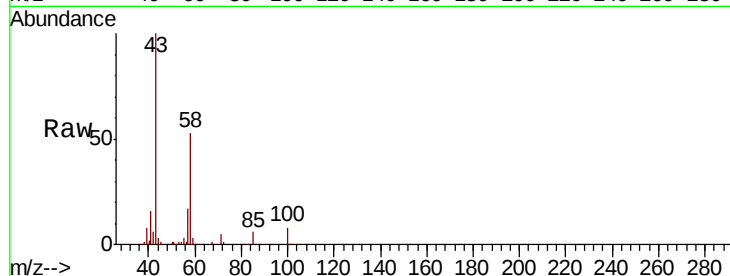
#59  
2-Hexanone  
Concen: 27.708 ug/l  
RT: 8.36 min Scan# 2236  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion   | 43 | Resp | 88682 |
|-----------|----|------|-------|
| Ion Ratio | 43 | 100  |       |
| Lower     | 58 | 51.7 | 25.8  |
| Upper     |    |      | 77.3  |

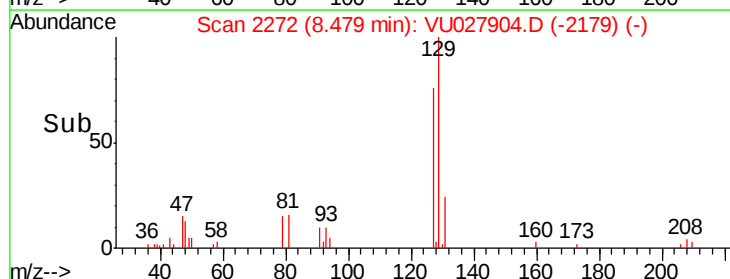
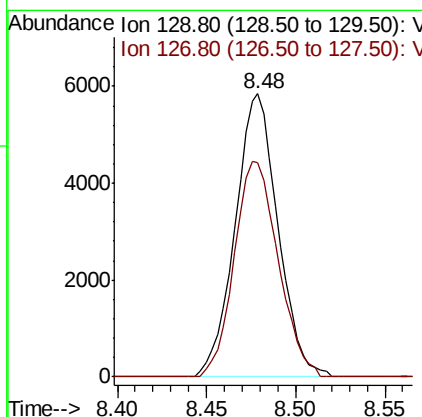
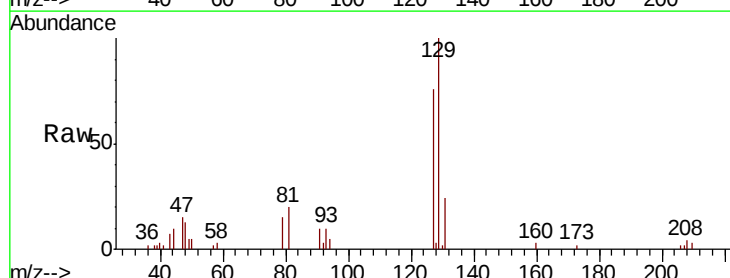
Manual Integrations  
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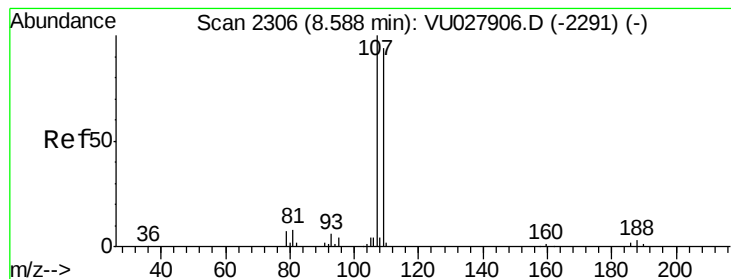
MMDadoda  
11/2/2018 9:00:03 AM



#60  
Dibromochloromethane  
Concen: 4.587 ug/l  
RT: 8.48 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion   | 129 | Resp | 9746  |
|-----------|-----|------|-------|
| Ion Ratio | 129 | 100  |       |
| Lower     | 127 | 78.1 | 39.2  |
| Upper     |     |      | 117.6 |





#61

1,2-Dibromoethane

Concen: 5.085 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 11550

Ion Ratio Lower Upper

107 100

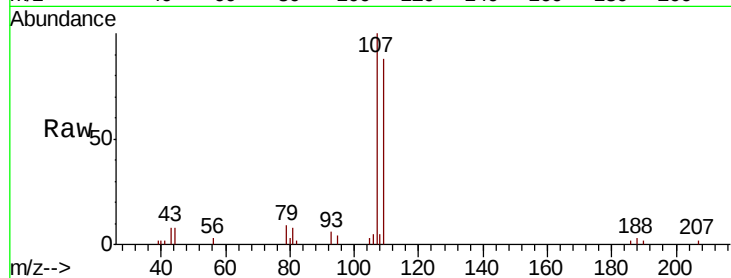
109 89.6 73.8 110.8

Manual Integrations

APPROVED

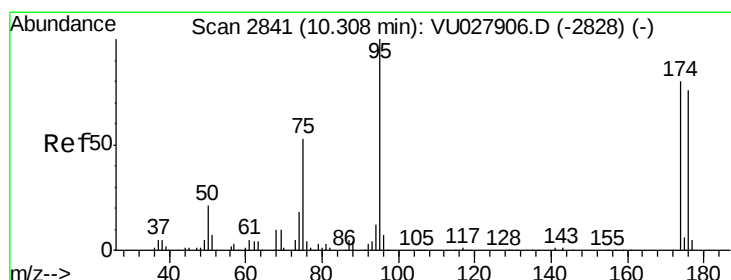
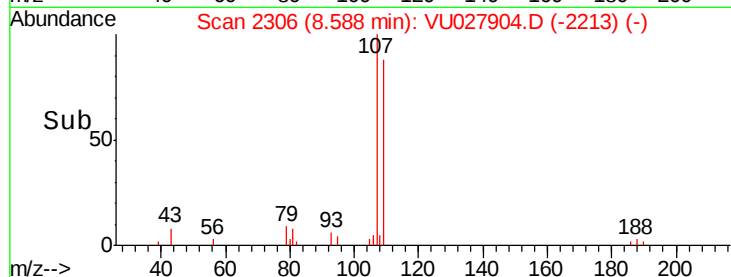
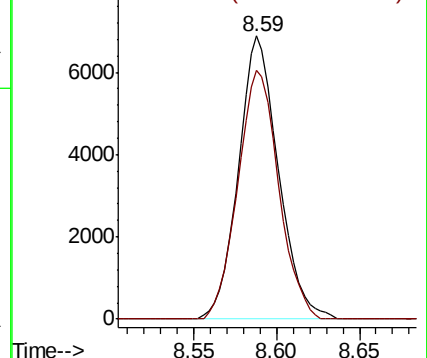
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 4.438 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

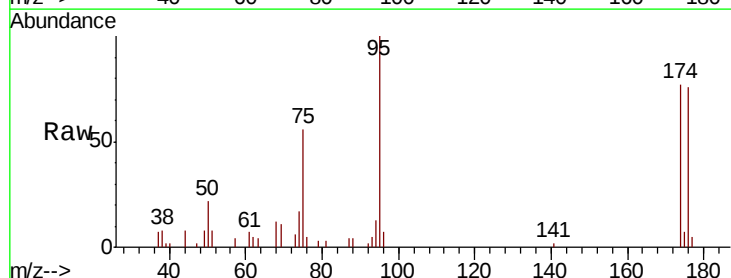
Tgt Ion: 95 Resp: 11930

Ion Ratio Lower Upper

95 100

174 78.2 0.0 156.4

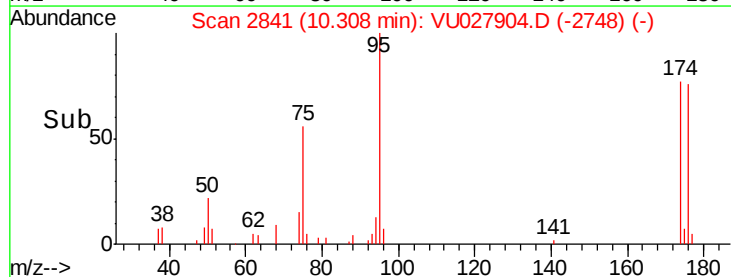
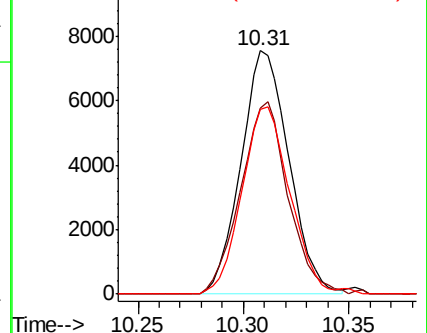
176 77.2 0.0 150.8

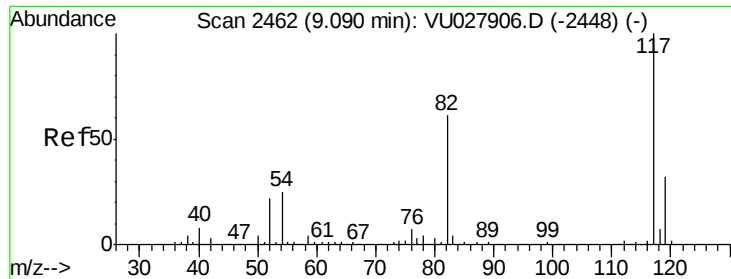


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





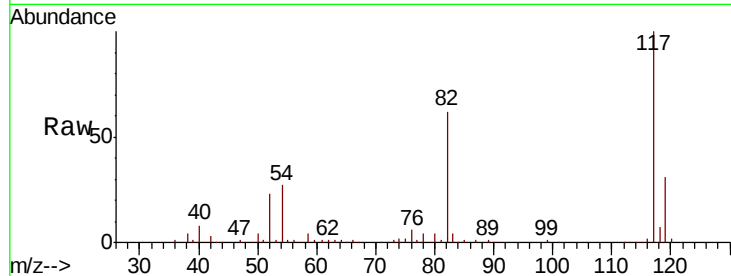
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 62.0  | 48.6  | 73.0  |
| 119     | 31.2  | 25.8  | 38.8  |

Manual Integrations  
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11/2/2018 9:00:03 AM

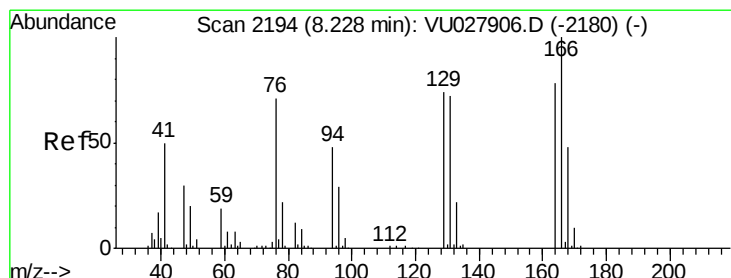
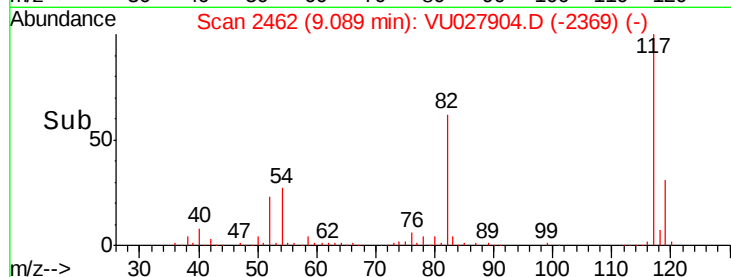
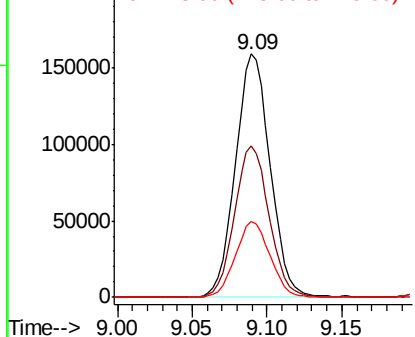


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64  
Tetrachloroethene  
Concen: 5.443 ug/l  
RT: 8.23 min Scan# 2194  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 125.4 | 102.1 | 153.1 |
| 129     | 97.7  | 75.9  | 113.9 |
| 131     | 91.8  | 73.0  | 109.6 |

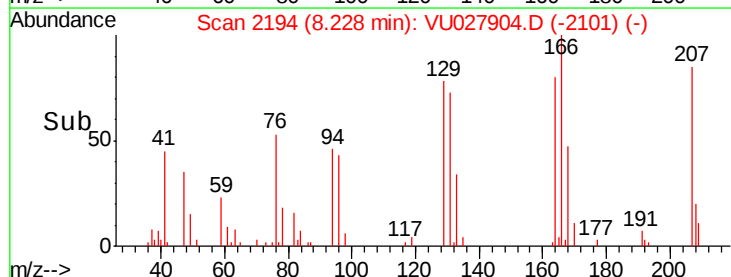
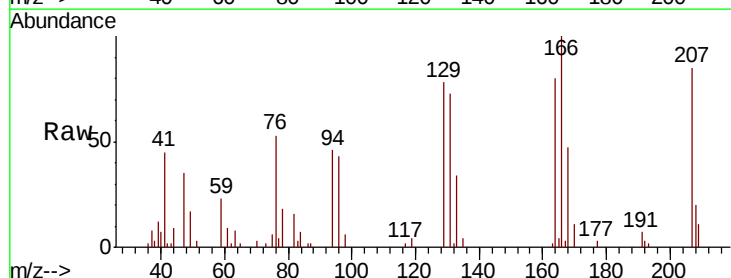
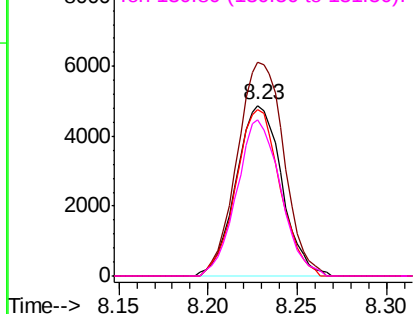
Abundance

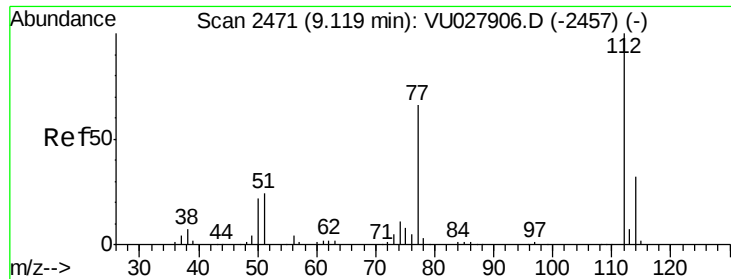
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





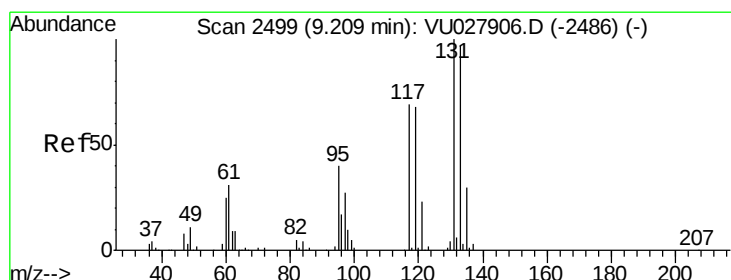
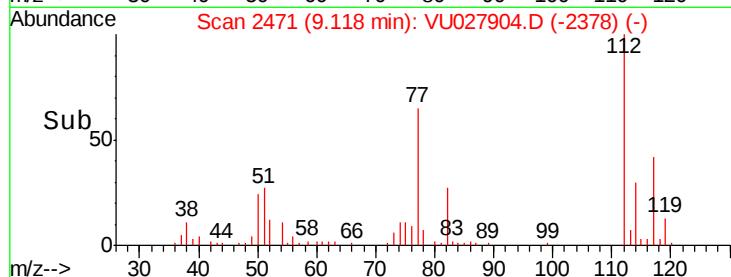
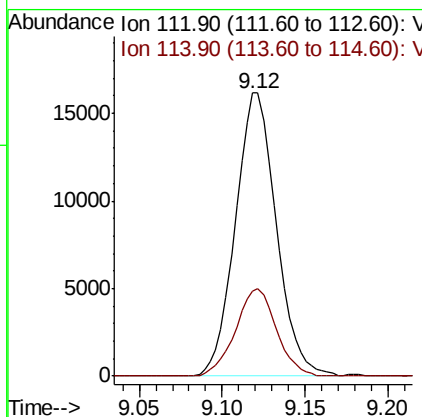
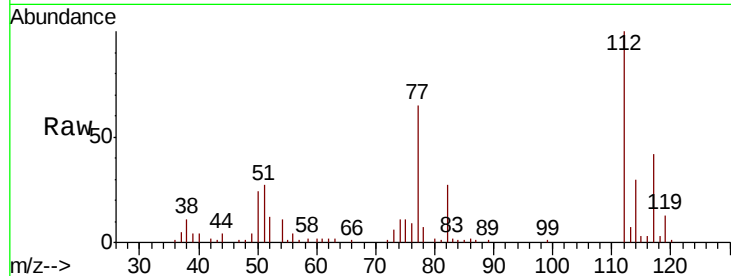
#65  
Chlorobenzene  
Concen: 5.118 ug/l  
RT: 9.12 min Scan# 2471  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 30.0  | 25.2  | 37.8  |

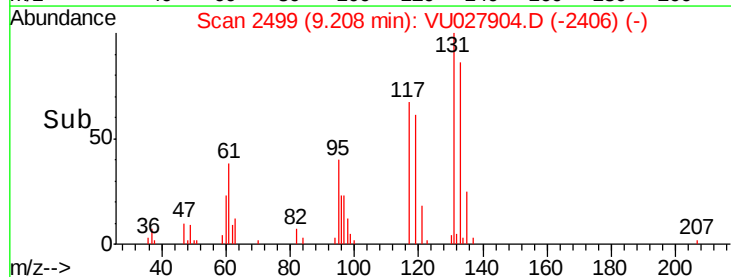
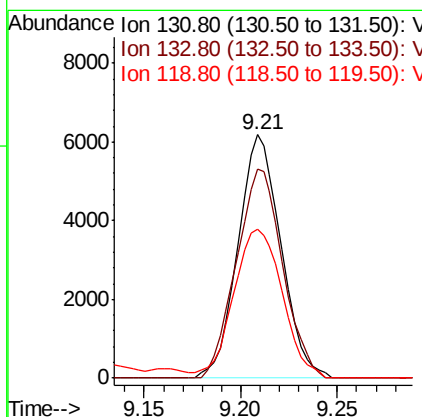
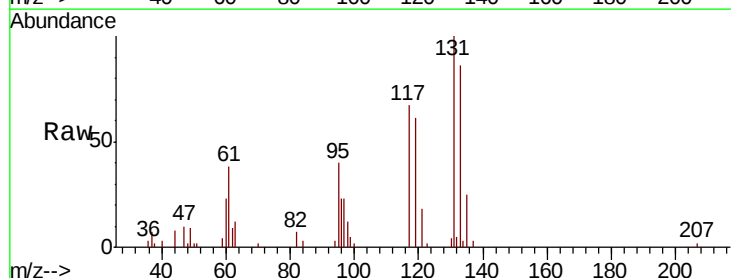
Manual Integrations  
APPROVED

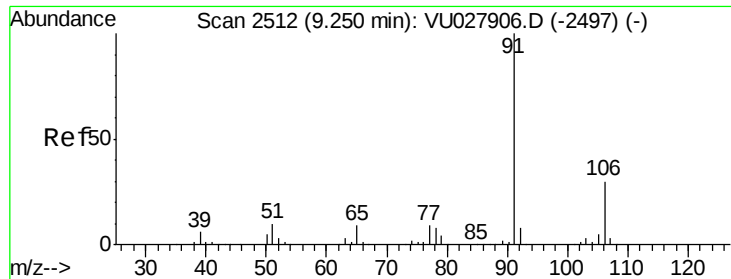
MMDadoda  
11/2/2018 9:00:03 AM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 5.105 ug/l  
RT: 9.21 min Scan# 2499  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 92.4  | 48.1  | 144.4 |
| 119     | 69.7  | 34.0  | 101.8 |





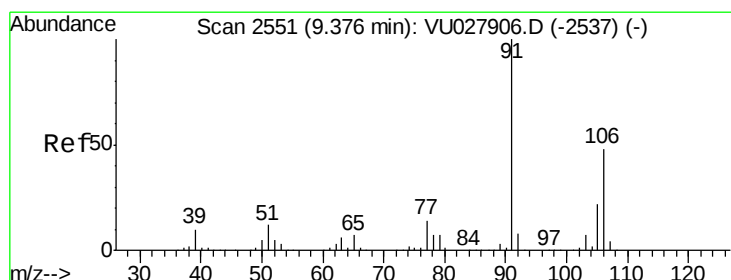
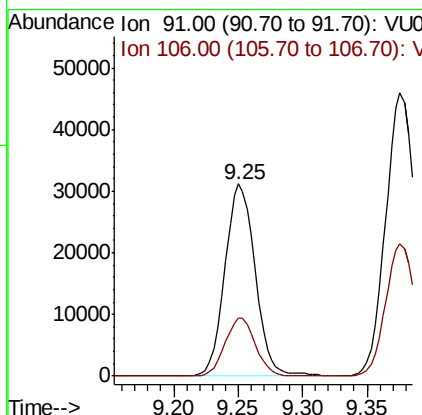
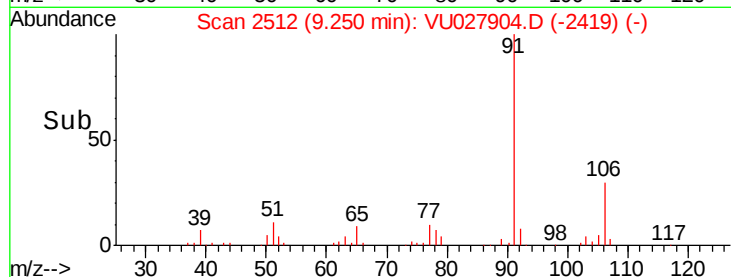
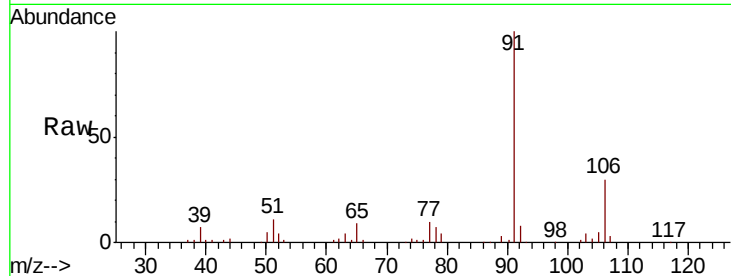
#67  
Ethyl Benzene  
Concen: 5.281 ug/l  
RT: 9.25 min Scan# 2512  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

Tot Ion: 91 Resp: 50818  
Ion Ratio Lower Upper  
91 100  
106 30.4 23.6 35.4

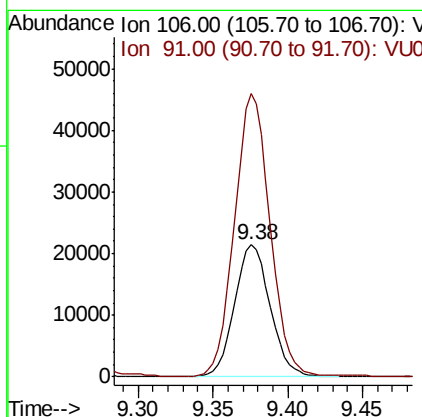
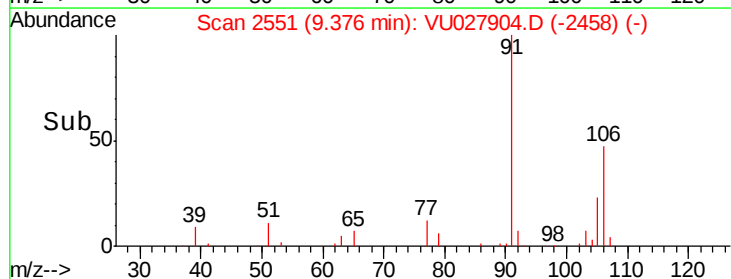
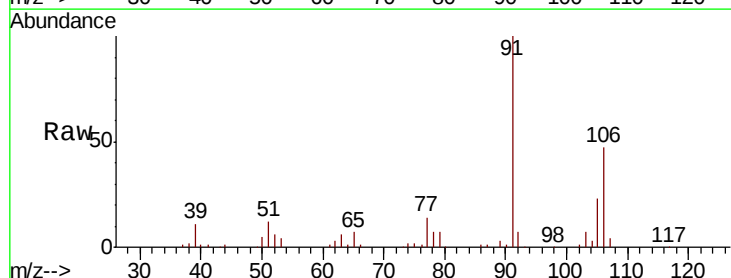
Manual Integrations  
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11/2/2018 9:00:03 AM



#68  
m/p-Xylenes  
Concen: 10.143 ug/l  
RT: 9.38 min Scan# 2551  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Tgt Ion: 106 Resp: 35591  
Ion Ratio Lower Upper  
106 100  
91 214.4 168.2 252.4





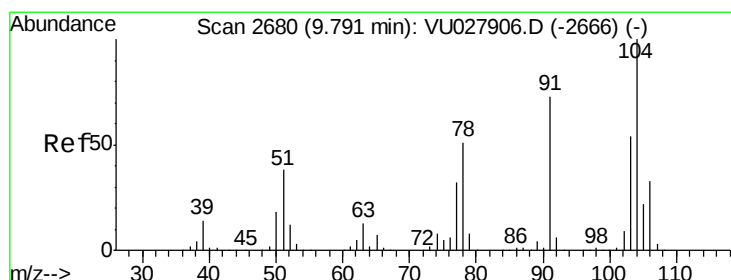
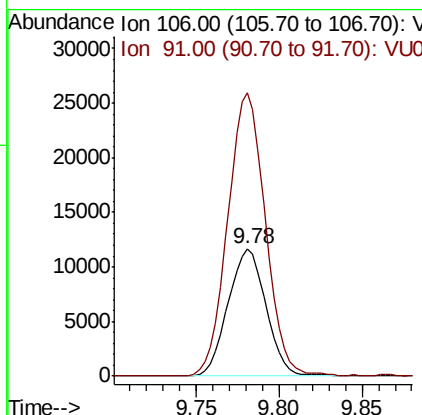
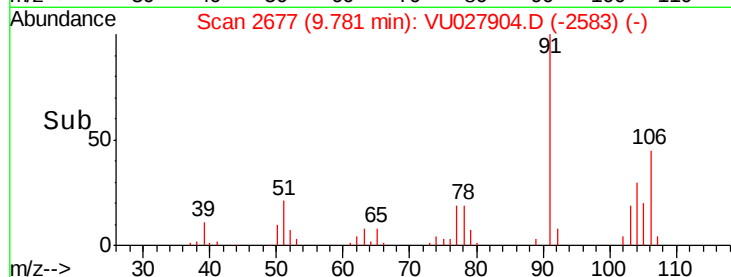
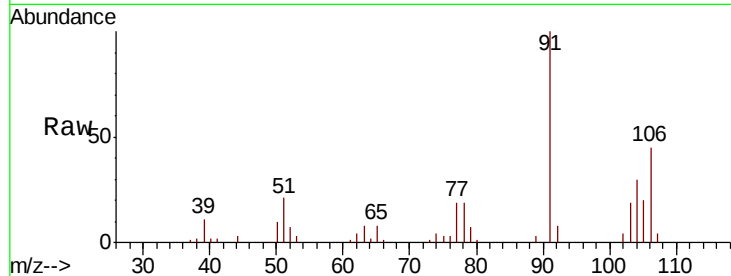
#69  
o-Xylene  
Concen: 5.525 ug/l  
RT: 9.78 min Scan# 2677  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

Tot Ion:106 Resp: 18507  
Ion Ratio Lower Upper  
106 100  
91 220.5 111.1 333.4

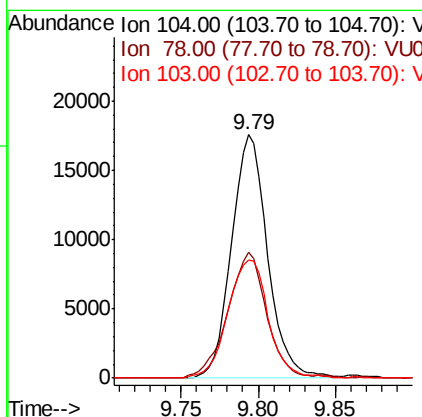
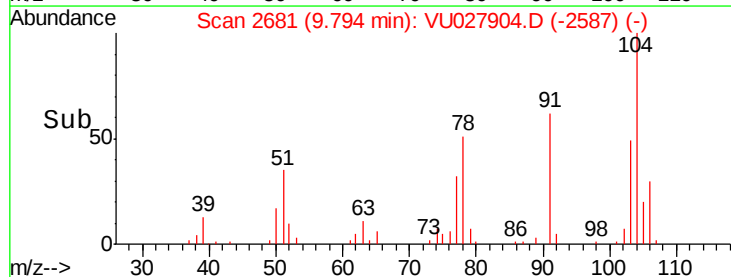
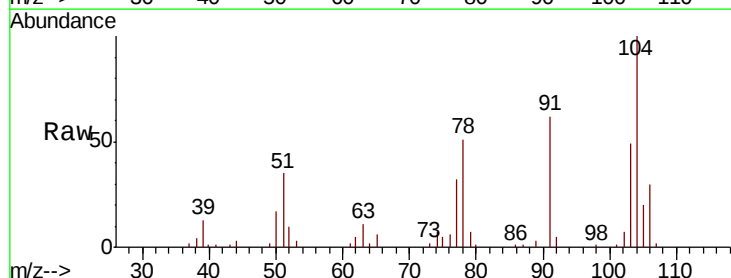
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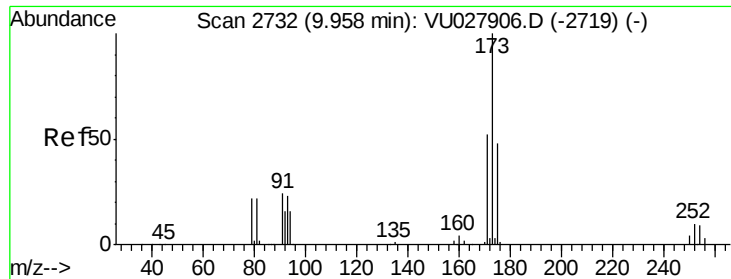
MMDadoda  
11/2/2018 9:00:03 AM



#70  
Styrene  
Concen: 5.161 ug/l  
RT: 9.79 min Scan# 2681  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Tgt Ion:104 Resp: 28408  
Ion Ratio Lower Upper  
104 100  
78 55.4 43.0 64.4  
103 54.6 45.1 67.7





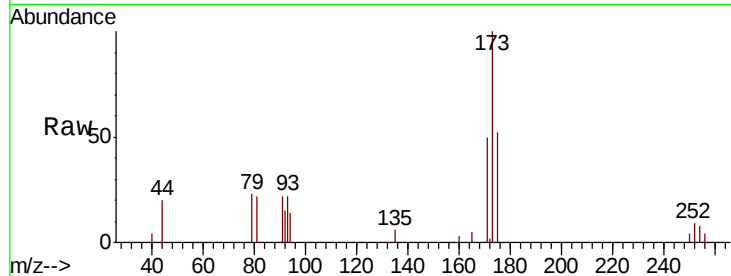
#71  
Bromoform  
Concen: 4.607 ug/l  
RT: 9.96 min Scan# 2733  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 46.7  | 24.3  | 72.8  |
| 254     | 0.0   | 0.0   | 0.0   |

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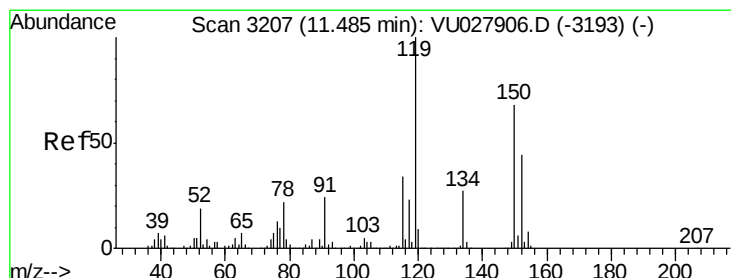
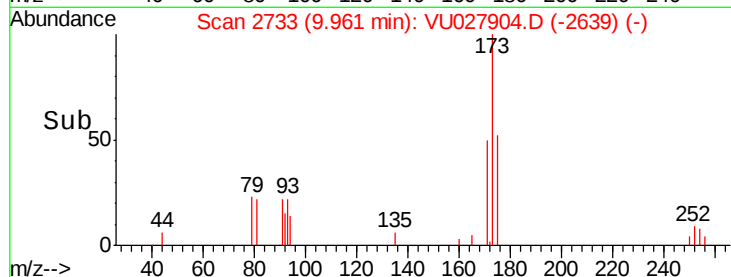
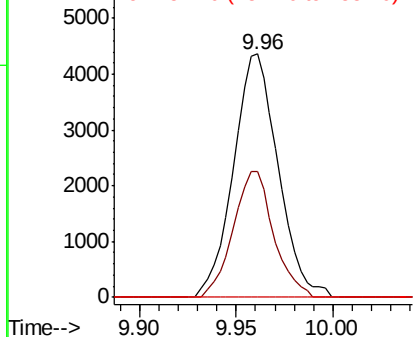


Abundance

Ion 172.70 (172.40 to 173.40): V

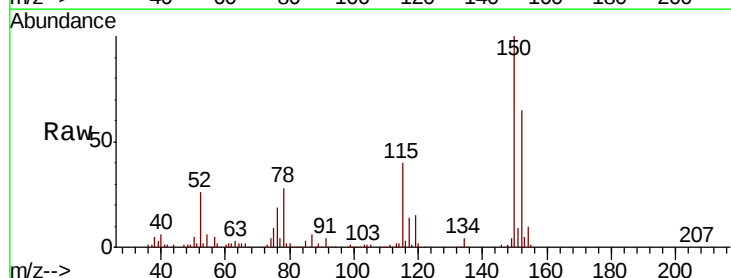
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 64.1  | 43.0  | 129.0 |
| 150     | 158.1 | 0.0   | 349.4 |

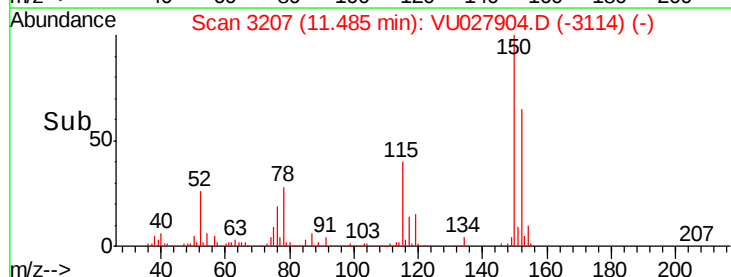
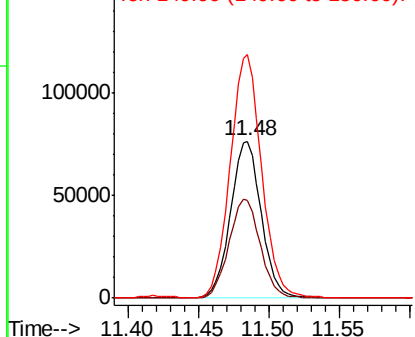


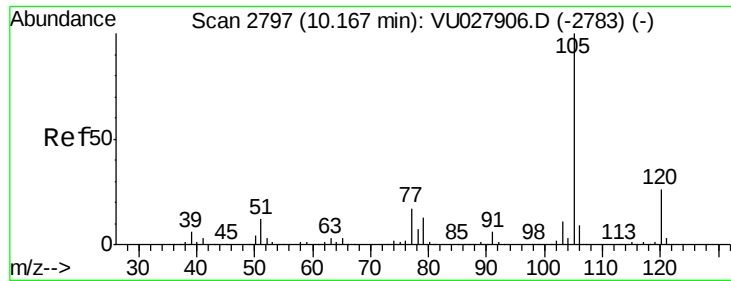
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





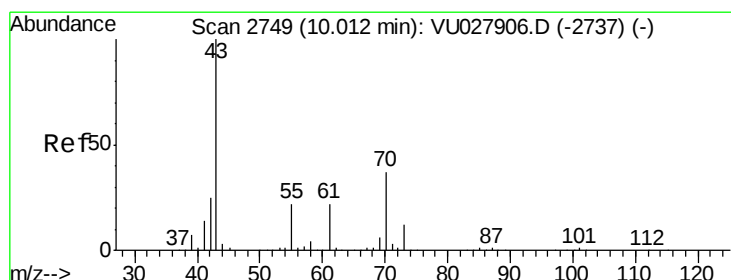
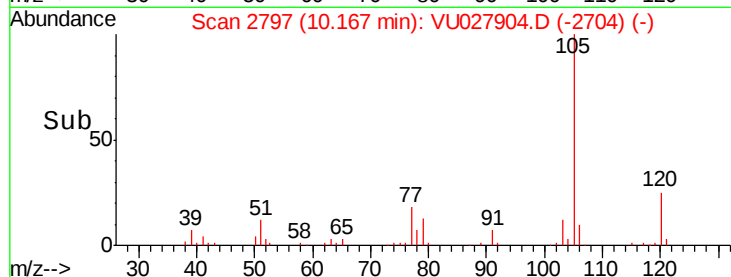
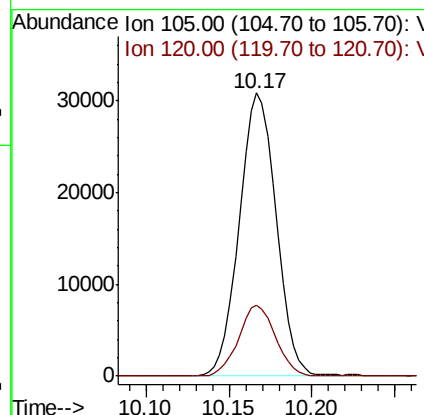
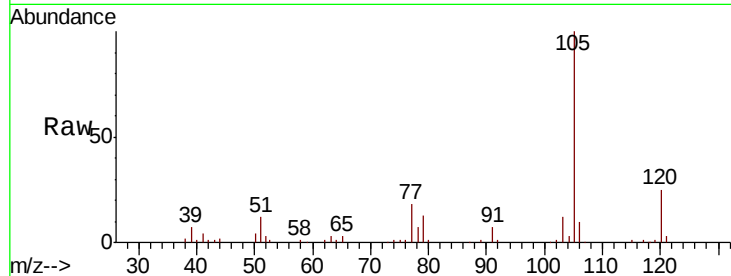
#73  
Isopropylbenzene  
Concen: 5.641 ug/l  
RT: 10.17 min Scan# 2797  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.0  | 12.7  | 38.0  |

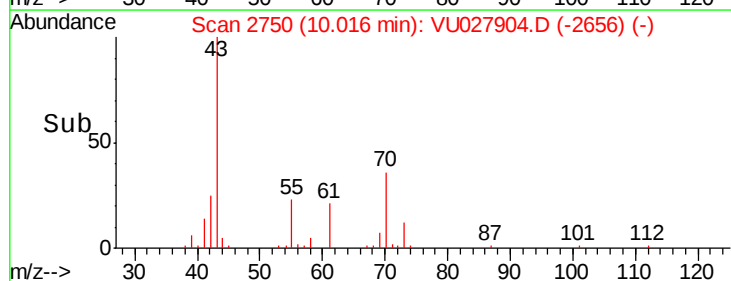
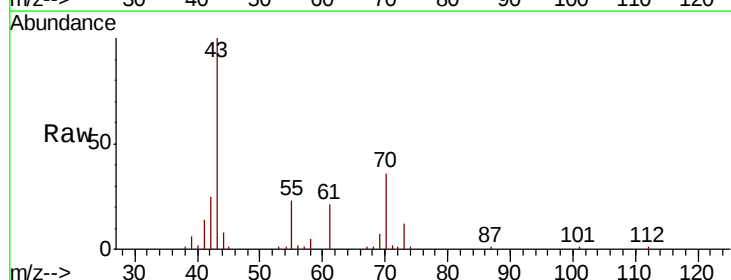
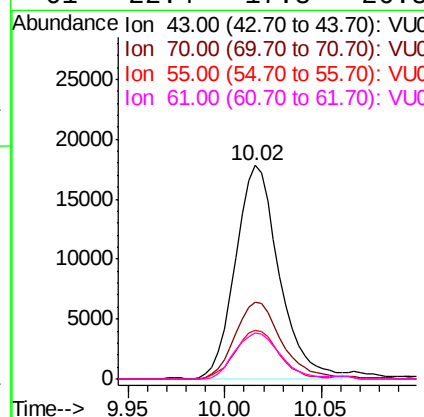
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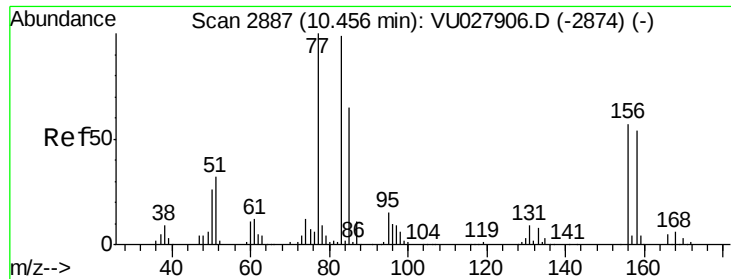
MMDadoda  
11/2/2018 9:00:03 AM



#74  
N-ethyl acetate  
Concen: 5.663 ug/l  
RT: 10.02 min Scan# 2750  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 70      | 39.1  | 29.2  | 43.8  |
| 55      | 23.0  | 17.8  | 26.6  |
| 61      | 22.4  | 17.8  | 26.8  |





#75

1,1,2,2-Tetrachloroethane

Concen: 5.898 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

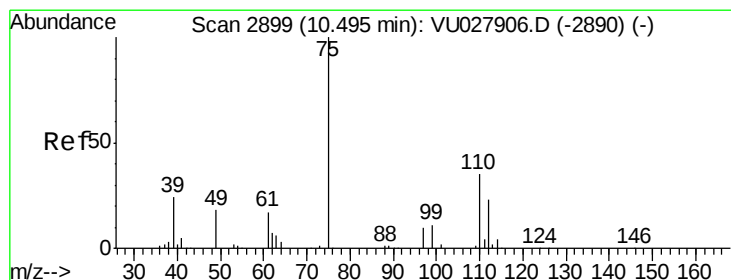
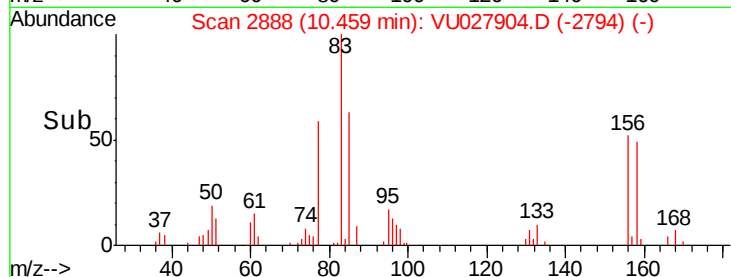
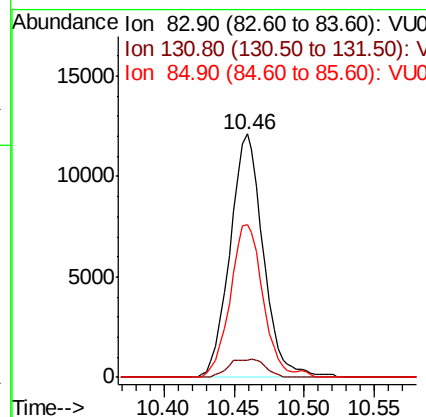
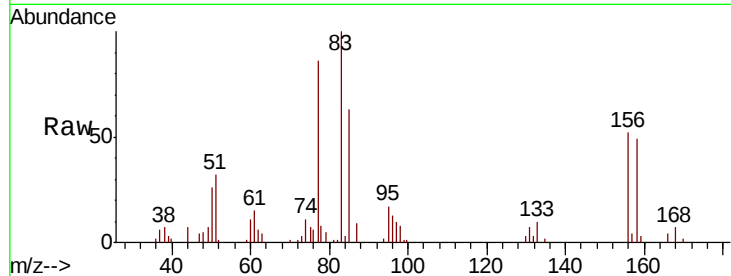
ClientSampleId :

VSTDIC005

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 83    | Resp: | 19937 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 131       | 8.3   | 4.3   | 13.1  |
| 85        | 61.5  | 32.4  | 97.2  |

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11/2/2018 9:00:03 AM



#76

1,2,3-Trichloropropane

Concen: 6.097 ug/l m

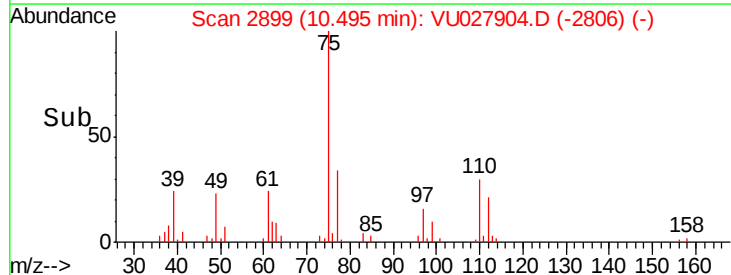
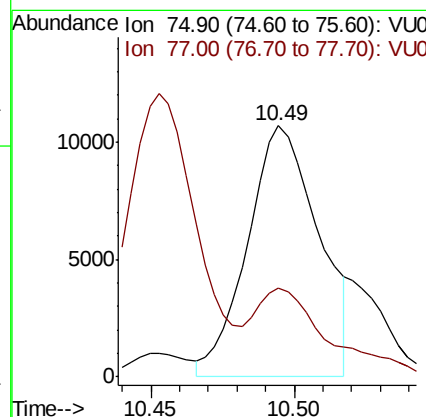
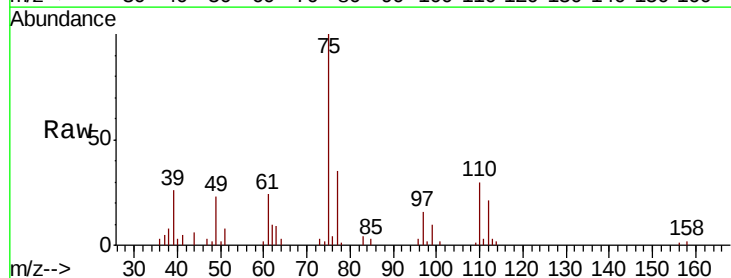
RT: 10.49 min Scan# 2899

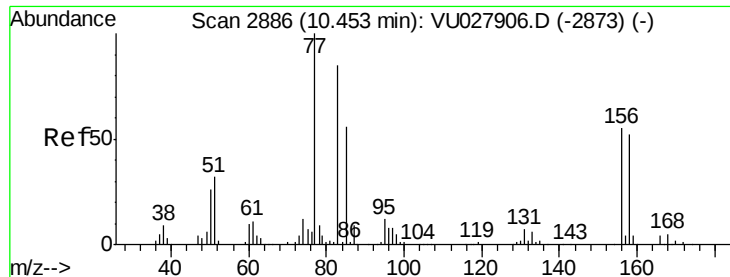
Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 18436 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 36.9  | 21.6  | 64.6  |





#77

Bromobenzene

Concen: 5.758 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

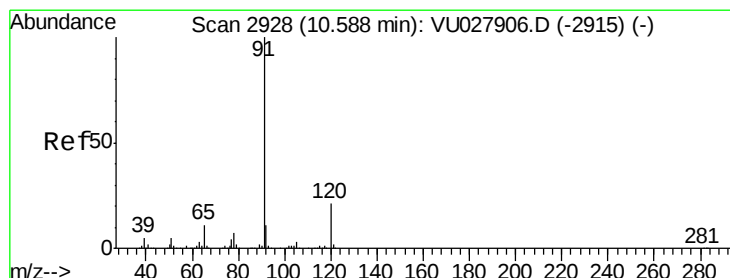
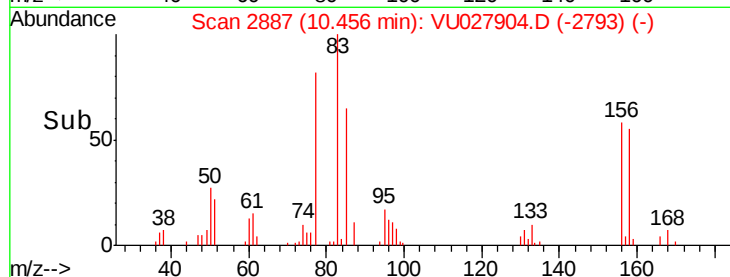
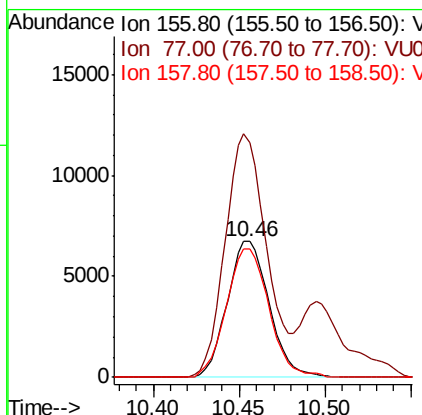
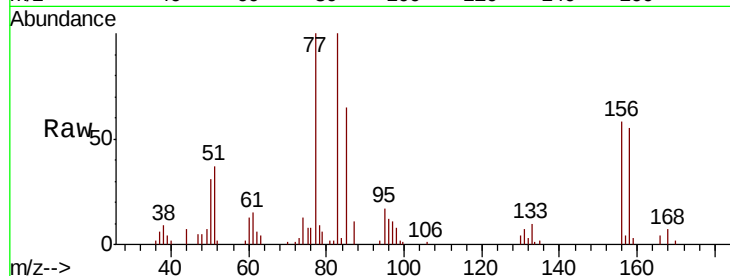
ClientSampleId :

VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 178.3 | 91.8  | 275.6 |
| 158     | 95.6  | 48.4  | 145.2 |

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11/2/2018 9:00:03 AM



#78

n-propylbenzene

Concen: 5.476 ug/l

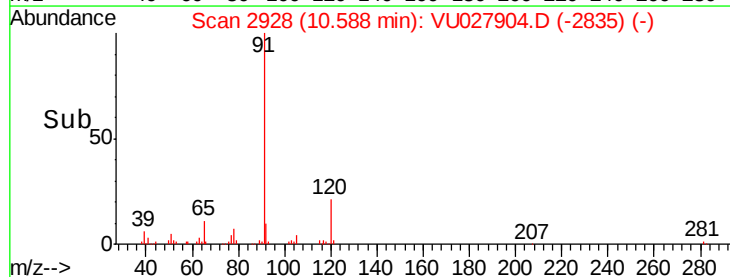
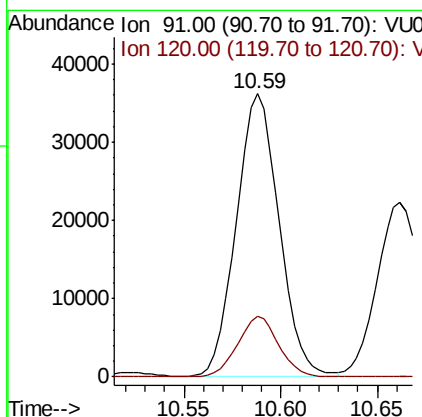
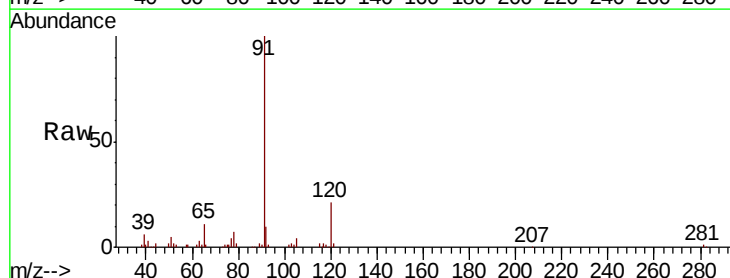
RT: 10.59 min Scan# 2928

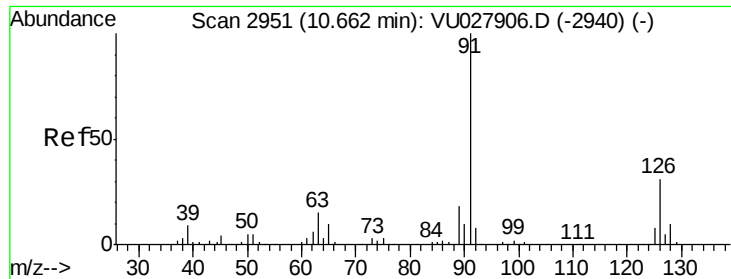
Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 20.4  | 10.6  | 31.8  |





#79

2-Chlorotoluene

Concen: 5.894 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 36300

Ion Ratio Lower Upper

91 100

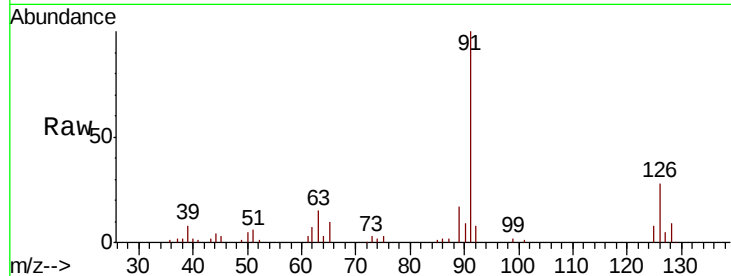
126 28.9 16.0 47.9

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU027906.D (-2940) (-)

Ion 125.90 (125.60 to 126.60): VU027906.D (-2940) (-)

40000

30000

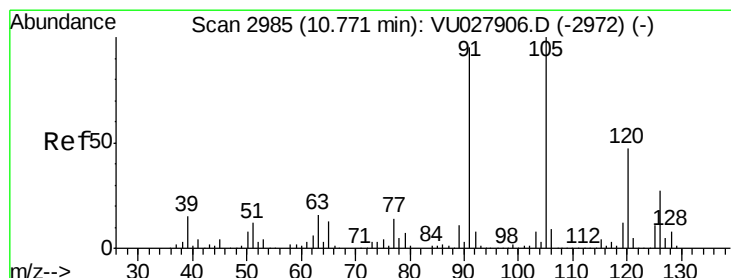
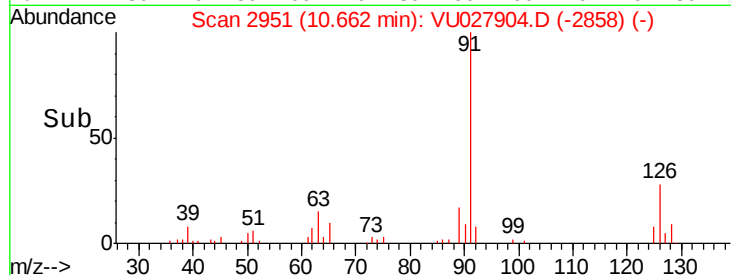
20000

10000

0

10.60 10.65 10.70 10.75

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 5.704 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU027904.D

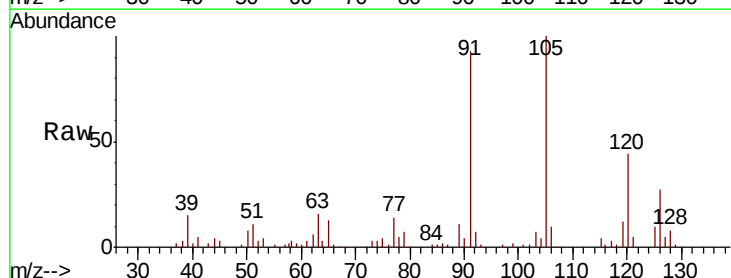
Acq: 01 Nov 2018 18:49

Tgt Ion: 105 Resp: 39630

Ion Ratio Lower Upper

105 100

120 47.0 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VU027906.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU027906.D (-2972) (-)

30000

25000

20000

15000

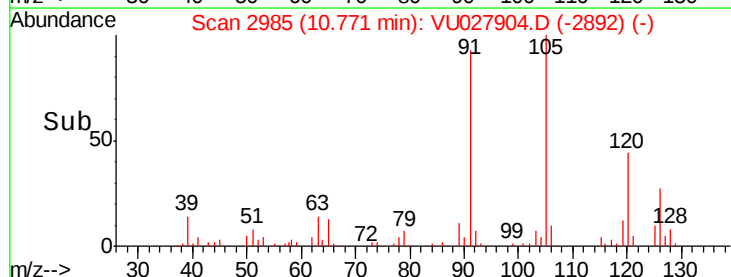
10000

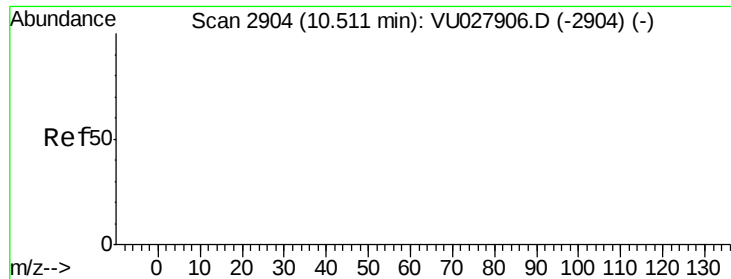
5000

0

10.70 10.75 10.80 10.85

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 4.803 ug/l

RT: 10.51 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VU027904.D

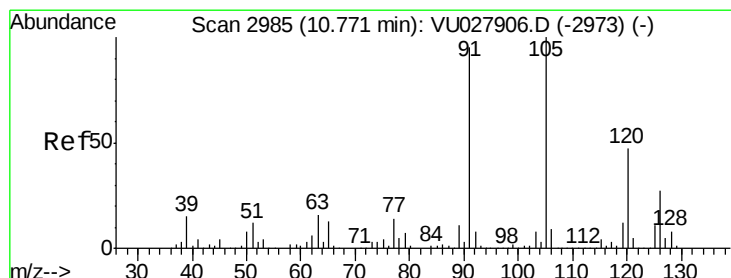
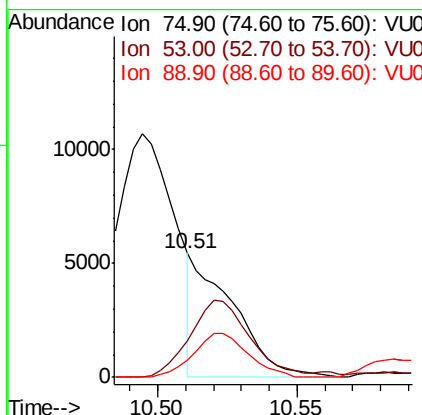
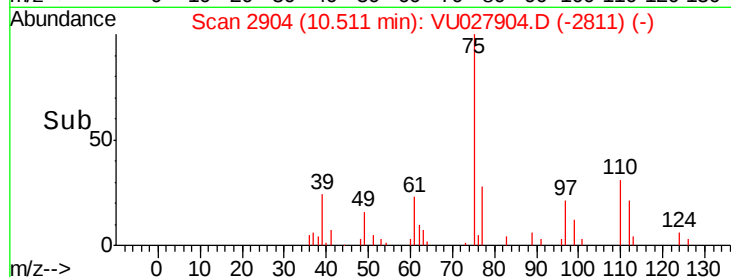
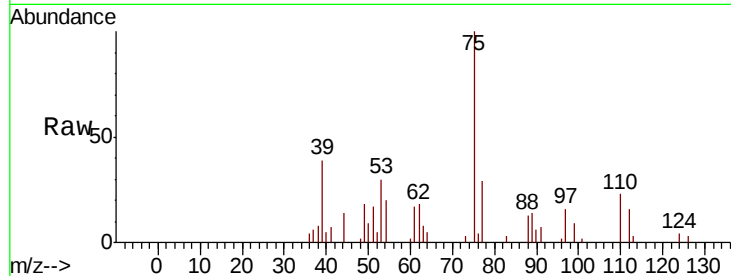
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| 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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#82

4-Chlorotoluene

Concen: 5.569 ug/l

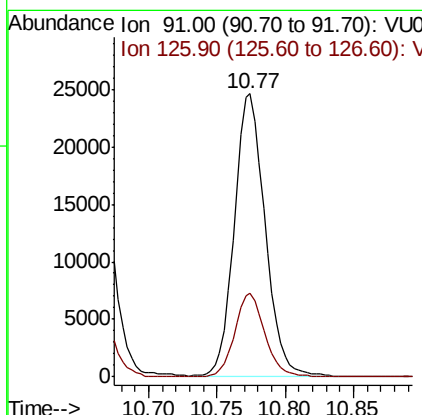
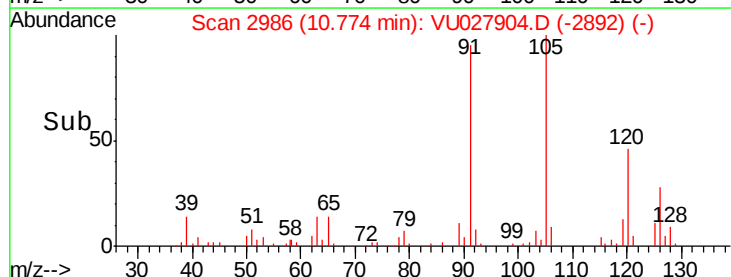
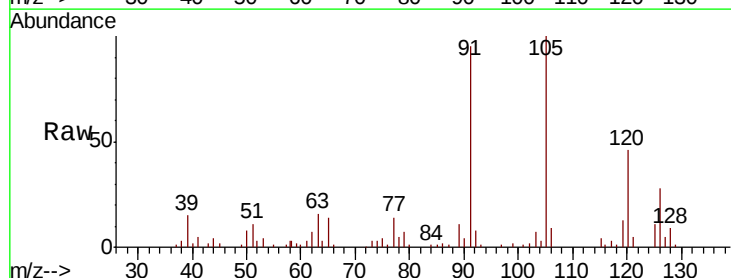
RT: 10.77 min Scan# 2986

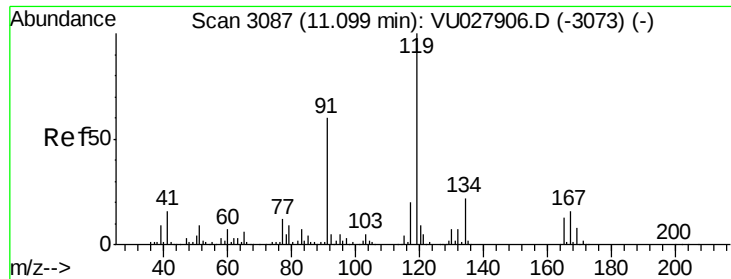
Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 28.5  | 14.2  | 42.6  |





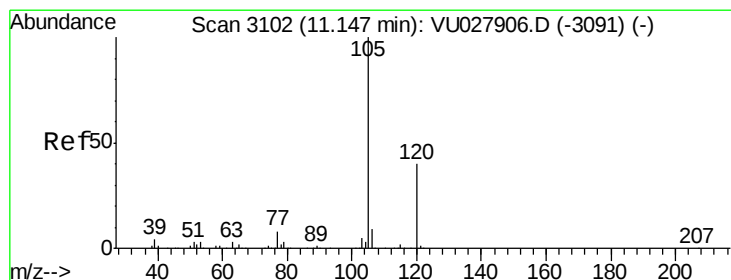
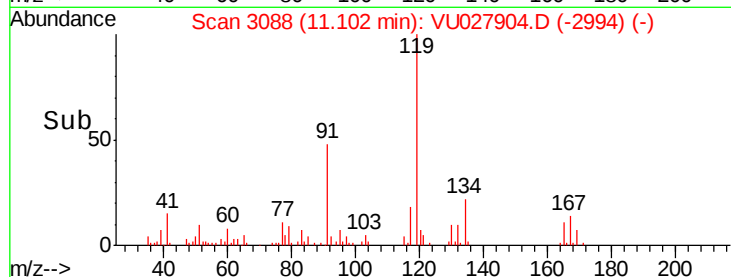
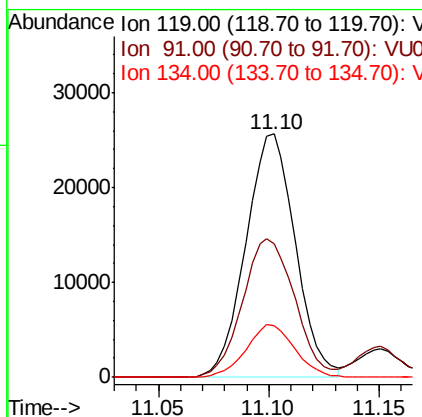
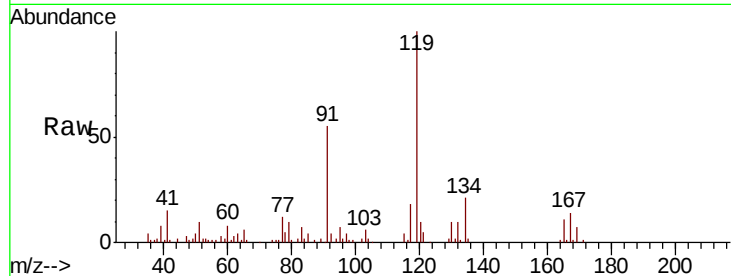
#83  
tert-Butylbenzene  
Concen: 5.935 ug/l  
RT: 11.10 min Scan# 3088  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 59.7  | 29.8  | 89.3  |
| 134     | 21.4  | 11.1  | 33.1  |

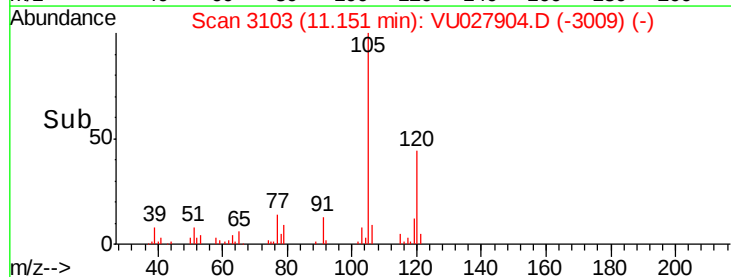
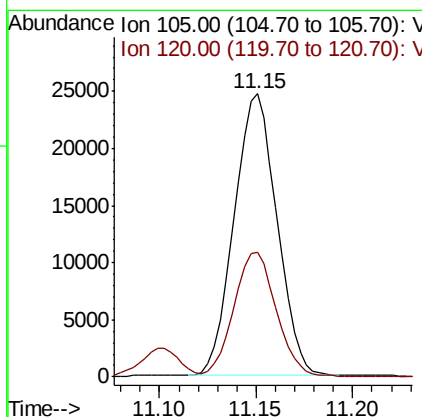
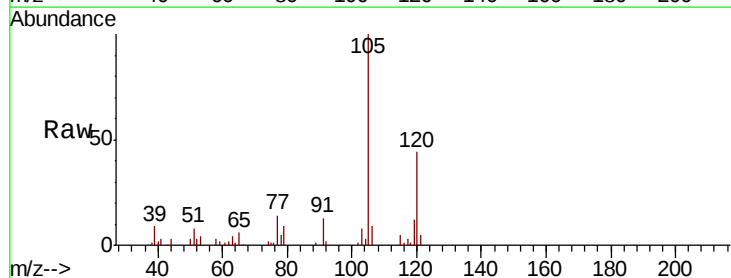
Manual Integrations  
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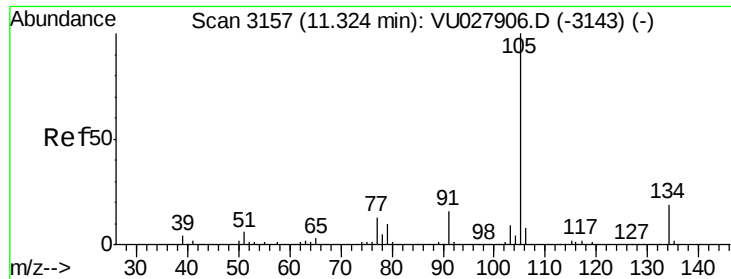
MMDadoda  
11/2/2018 9:00:03 AM



#84  
1,2,4-Trimethylbenzene  
Concen: 5.372 ug/l  
RT: 11.15 min Scan# 3103  
Delta R.T. 0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 43.9  | 22.1  | 66.1  |





#85

sec-Butylbenzene

Concen: 5.487 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 46370

Ion Ratio Lower Upper

105 100

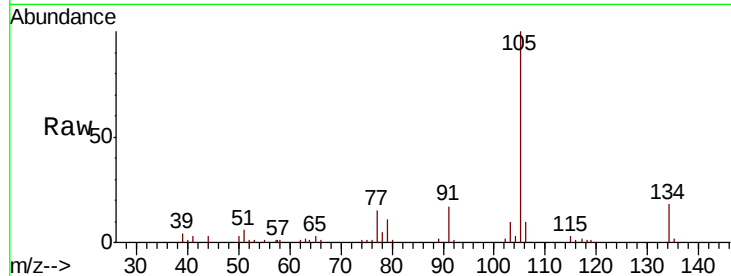
134 18.4 9.2 27.6

Manual Integrations

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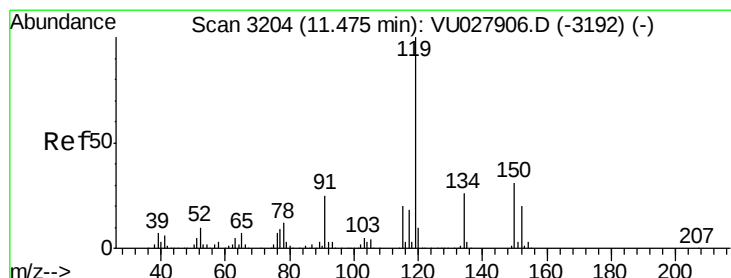
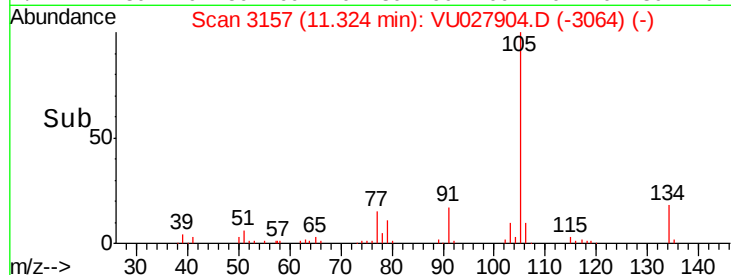
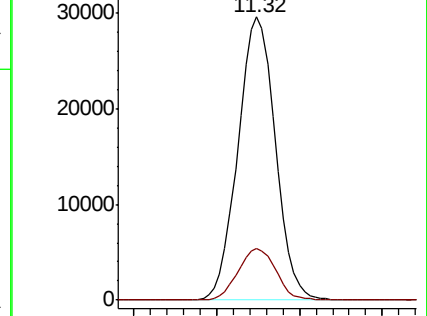
MMDadoda

11/2/2018 9:00:03 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.341 ug/l

RT: 11.48 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

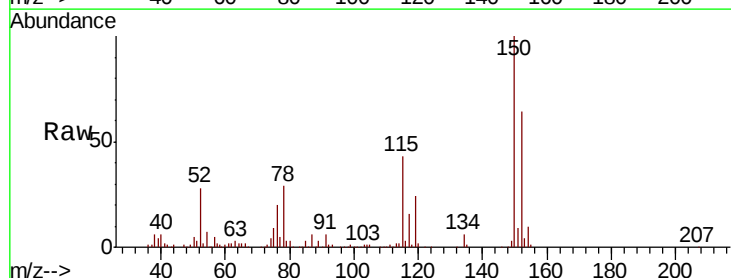
Tgt Ion:119 Resp: 38447

Ion Ratio Lower Upper

119 100

134 25.4 12.9 38.7

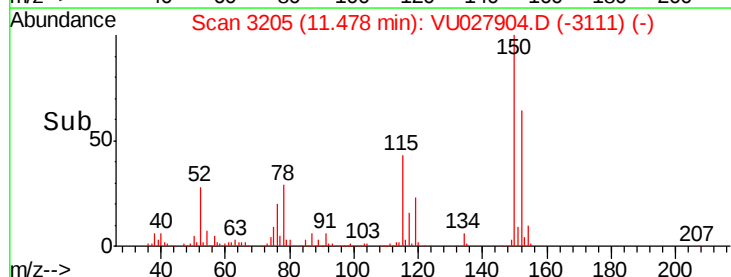
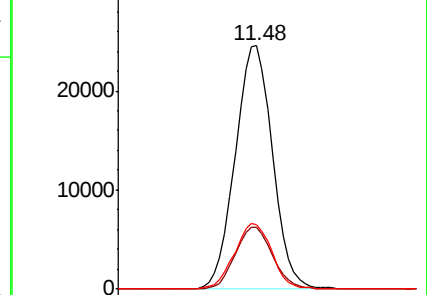
91 26.8 12.4 37.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0





#87

1,3-Dichlorobenzene

Concen: 5.301 ug/l

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

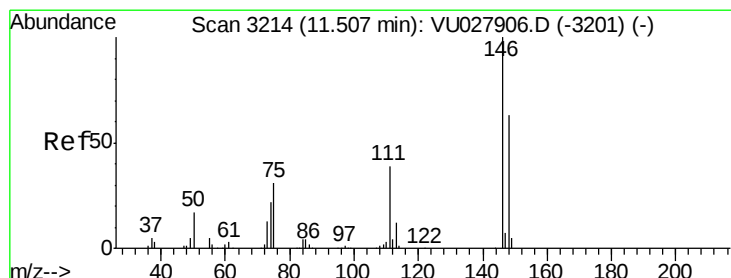
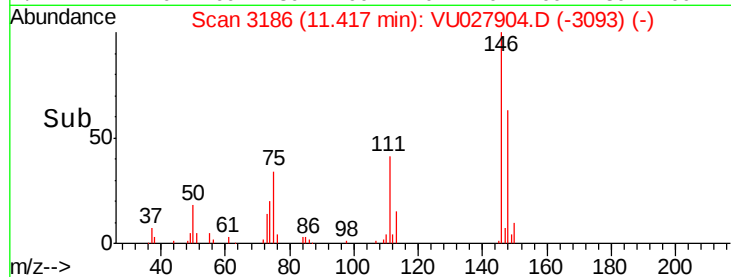
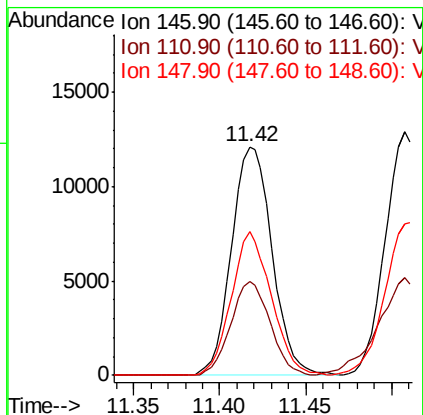
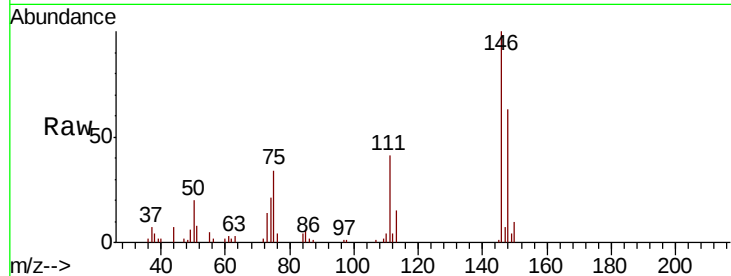
ClientSampleId :

VSTDIC005

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 19838 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 39.8  | 20.3  | 61.0  |
| 148       | 61.7  | 31.8  | 95.4  |

Manual Integrations  
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#88

1,4-Dichlorobenzene

Concen: 5.407 ug/l

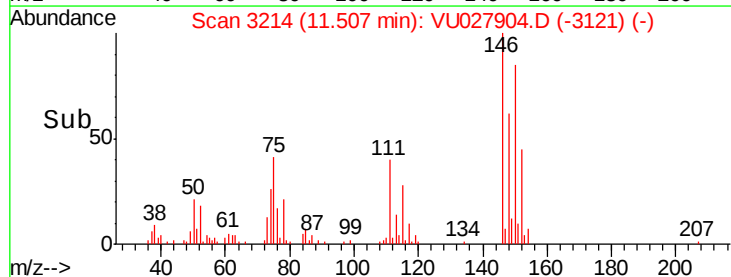
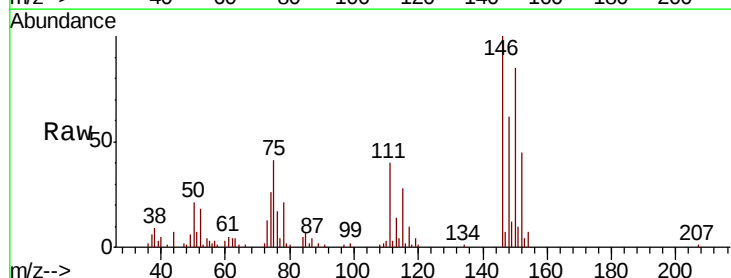
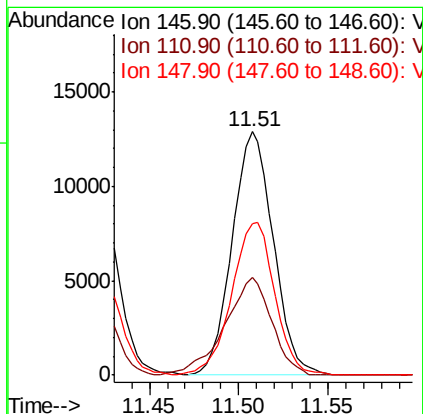
RT: 11.51 min Scan# 3214

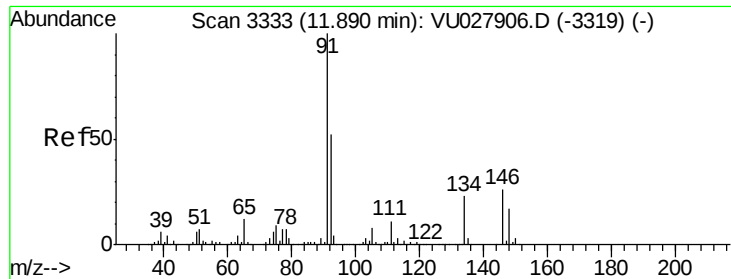
Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 20661 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 45.6  | 20.3  | 60.9  |
| 148       | 65.6  | 32.0  | 96.2  |





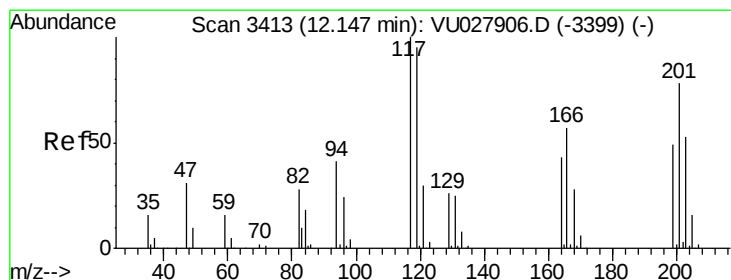
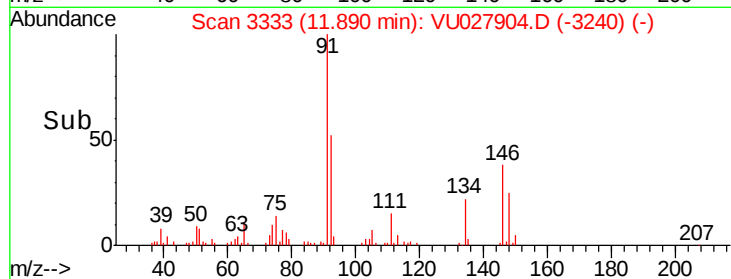
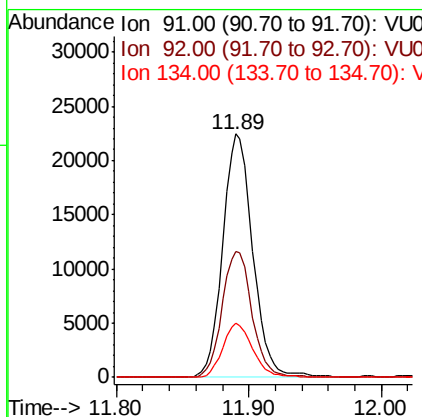
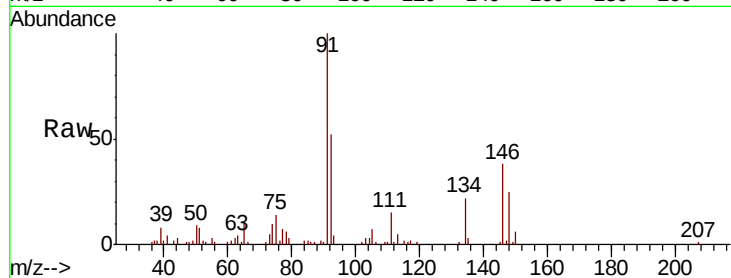
#89  
n-Butylbenzene  
Concen: 5.211 ug/l  
RT: 11.89 min Scan# 3333  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.4  | 26.2  | 78.5  |
| 134     | 22.2  | 11.5  | 34.5  |

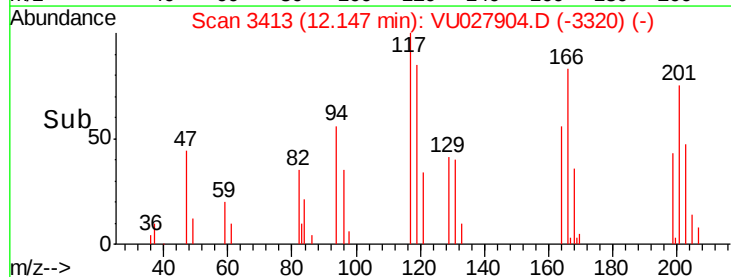
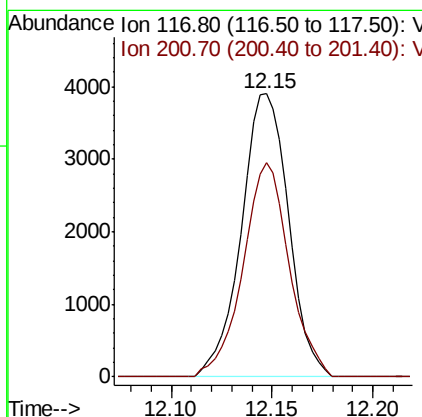
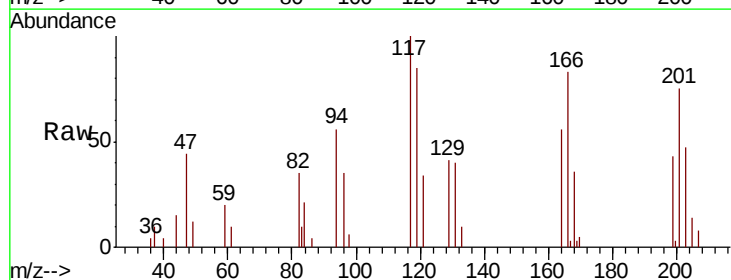
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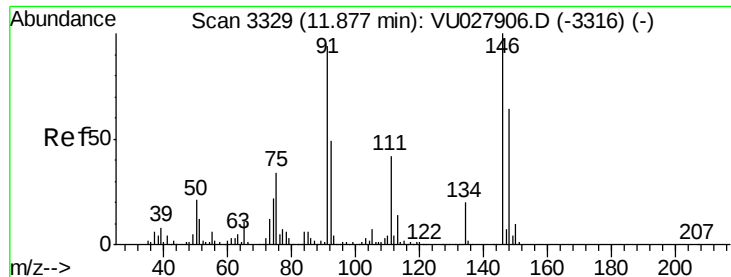
MMDadoda  
11/2/2018 9:00:03 AM



#90  
Hexachloroethane  
Concen: 4.726 ug/l  
RT: 12.15 min Scan# 3413  
Delta R.T. -0.00 min  
Lab File: VU027904.D  
Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 73.8  | 38.5  | 115.5 |





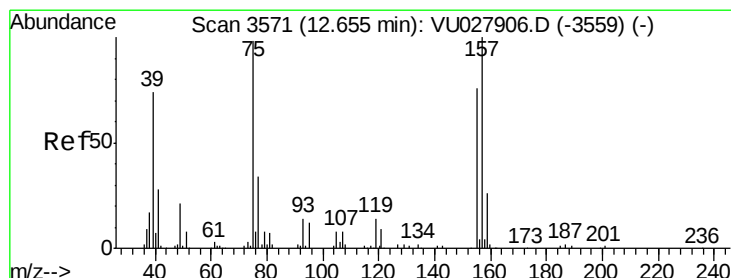
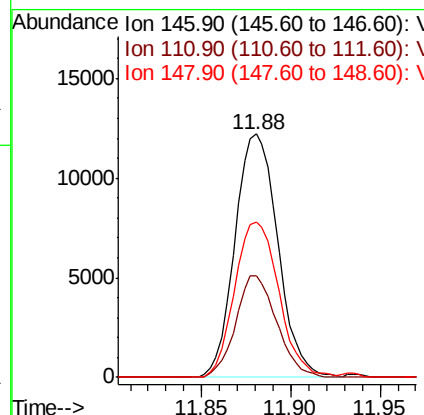
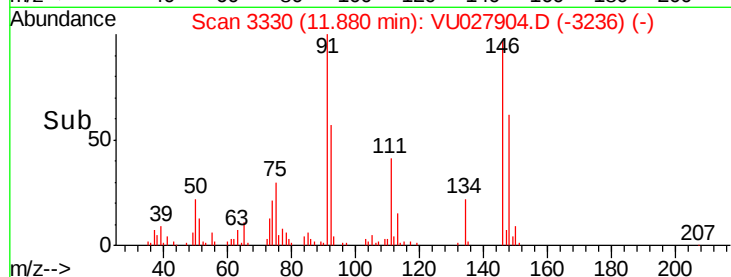
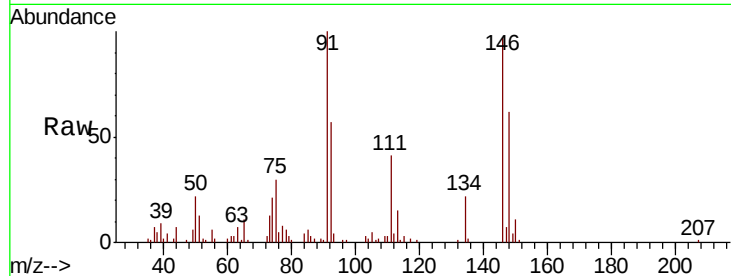
#91  
 1,2-Dichlorobenzene  
 Concen: 5.576 ug/l  
 RT: 11.88 min Scan# 3330  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.9  | 21.3  | 64.0  |
| 148     | 65.6  | 31.8  | 95.3  |

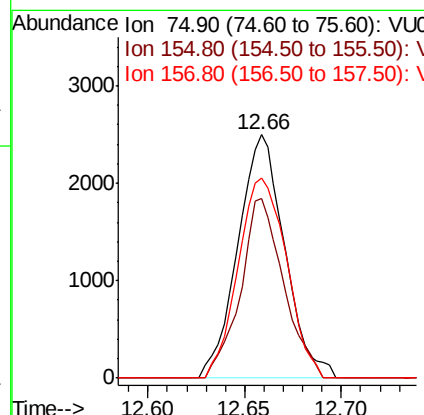
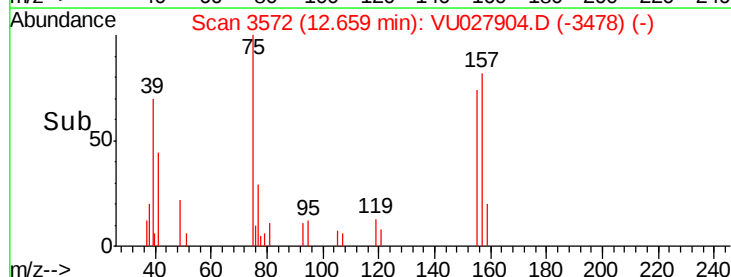
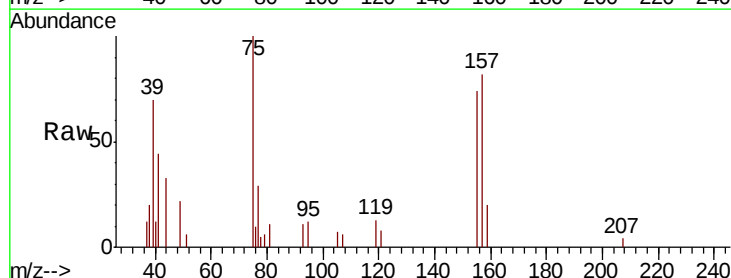
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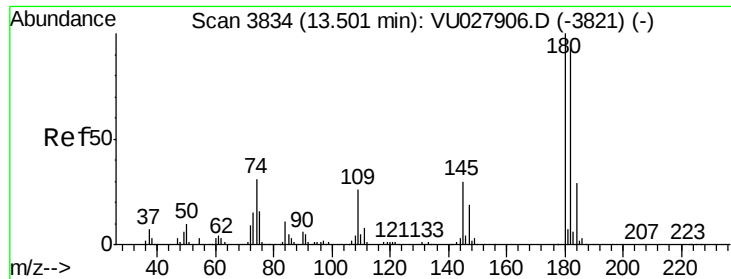
MMDadoda  
 11/2/2018 9:00:03 AM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 5.643 ug/l  
 RT: 12.66 min Scan# 3572  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 68.1  | 39.8  | 119.3 |
| 157     | 84.9  | 50.6  | 151.9 |





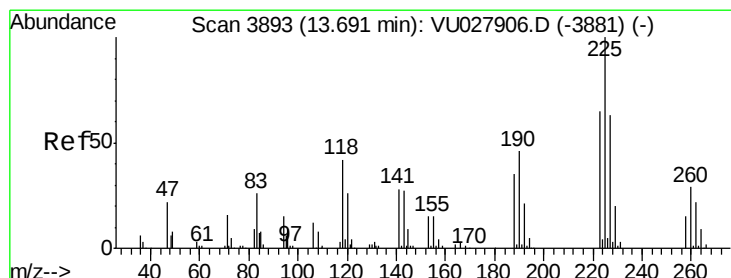
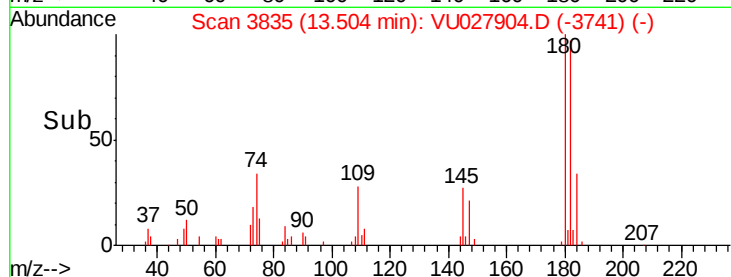
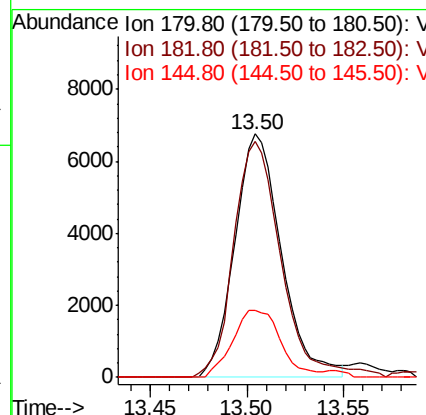
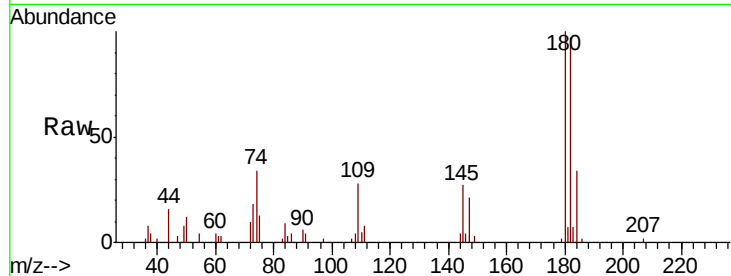
#93  
 1,2,4-Trichlorobenzene  
 Concen: 4.784 ug/l  
 RT: 13.50 min Scan# 3835  
 Delta R.T. 0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.3  | 48.4  | 145.2 |
| 145     | 28.6  | 14.9  | 44.5  |

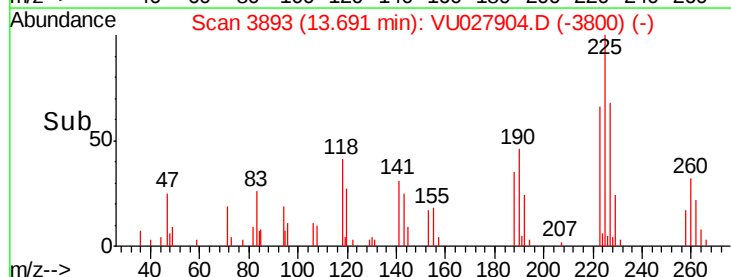
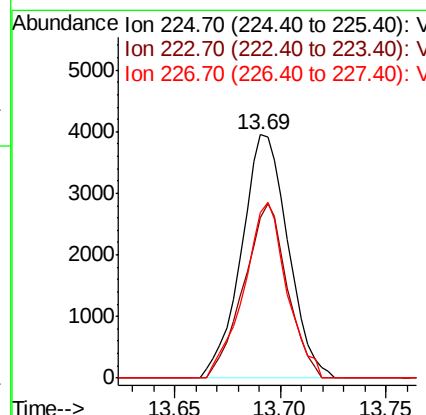
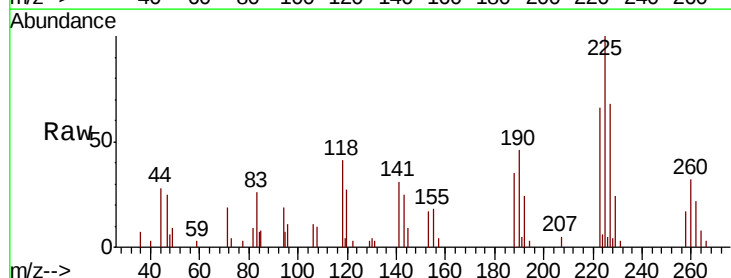
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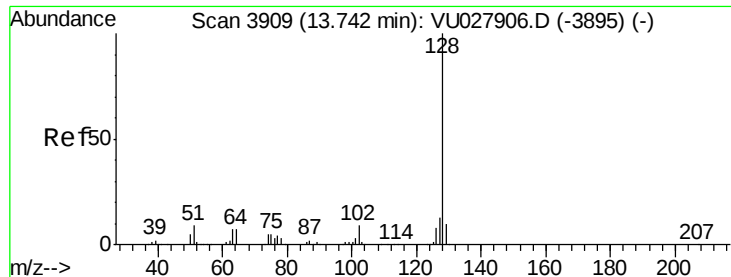
MMDadoda  
 11/2/2018 9:00:03 AM



#94  
 Hexachlorobutadiene  
 Concen: 5.101 ug/l  
 RT: 13.69 min Scan# 3893  
 Delta R.T. -0.00 min  
 Lab File: VU027904.D  
 Acq: 01 Nov 2018 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 66.4  | 32.2  | 96.6  |
| 227     | 66.2  | 32.5  | 97.4  |





#95

Naphthalene

Concen: 5.358 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

Instrument :

MSVOA\_U

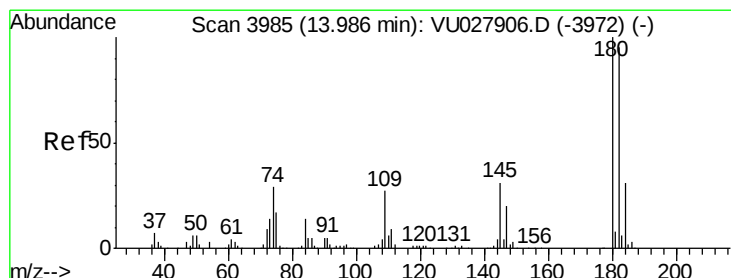
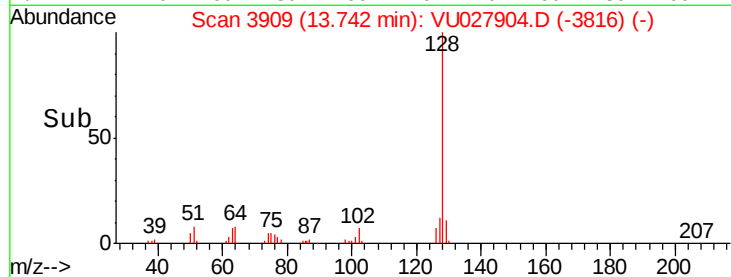
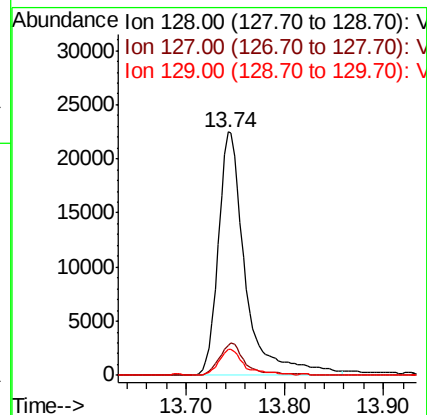
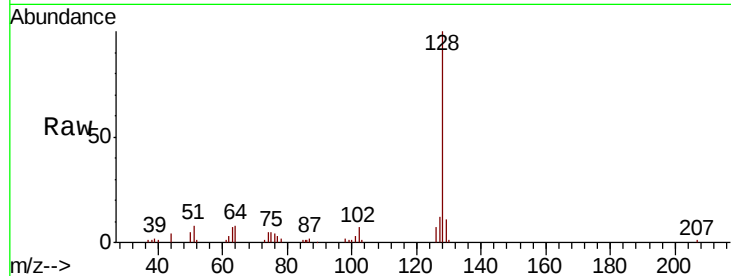
ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 43320 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.3  | 10.4  | 15.6  |
| 129      | 10.3  | 8.3   | 12.5  |

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11/2/2018 9:00:03 AM



#96

1,2,3-Trichlorobenzene

Concen: 4.886 ug/l

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU027904.D

Acq: 01 Nov 2018 18:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 12126 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 101.7 | 47.4  | 142.3 |
| 145      | 31.4  | 16.0  | 47.9  |

