

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120618\  
 Data File : VU028497.D  
 Acq On : 06 Dec 2018 13:19  
 Operator : MD/SY  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

MMDadoda  
 12/7/2018 10:35:06 AM

Quant Time: Dec 07 00:28:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:10:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 109619   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 191700   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 184167   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 96889    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 253447   | 151.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 303.02% |      |
| 35) Dibromofluoromethane  | 4.88   | 113 | 187928   | 155.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 311.56% |      |
| 50) Toluene-d8            | 7.57   | 98  | 753559   | 157.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 315.82% |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 290419   | 162.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 325.64% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.21 | 85  | 220578  | 150.125 | ug/l | 100    |
| 3) Chloromethane              | 1.33 | 50  | 403322  | 149.308 | ug/l | 100    |
| 4) Vinyl Chloride             | 1.40 | 62  | 293817  | 150.721 | ug/l | 99     |
| 5) Bromomethane               | 1.60 | 94  | 126294  | 160.830 | ug/l | 99     |
| 6) Chloroethane               | 1.68 | 64  | 166060  | 150.469 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 304581  | 148.505 | ug/l | 100    |
| 8) Diethyl Ether              | 2.10 | 74  | 137734  | 143.537 | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.28 | 101 | 182754  | 148.988 | ug/l | 98     |
| 10) Methyl Iodide             | 2.41 | 142 | 161161  | 167.443 | ug/l | 99     |
| 11) Tert butyl alcohol        | 2.83 | 59  | 265007  | 711.035 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.28 | 96  | 181086  | 148.373 | ug/l | 99     |
| 13) Acrolein                  | 2.19 | 56  | 225695  | 759.615 | ug/l | 100    |
| 14) Allyl chloride            | 2.59 | 41  | 446560  | 154.666 | ug/l | 94     |
| 15) Acrylonitrile             | 2.94 | 53  | 772524  | 746.581 | ug/l | 99     |
| 16) Acetone                   | 2.32 | 43  | 697935  | 639.359 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.47 | 76  | 644478  | 146.579 | ug/l | 99     |
| 18) Methyl Acetate            | 2.61 | 43  | 423727  | 149.740 | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.00 | 73  | 682779  | 147.573 | ug/l | 99     |
| 20) Methylene Chloride        | 2.70 | 84  | 227423  | 141.326 | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 2.98 | 96  | 202238  | 147.172 | ug/l | 99     |
| 22) Diisopropyl ether         | 3.57 | 45  | 833334  | 148.419 | ug/l | 96     |
| 23) Vinyl Acetate             | 3.52 | 43  | 3548856 | 766.282 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.44 | 63  | 424410  | 144.402 | ug/l | 99     |
| 25) 2-Butanone                | 4.26 | 43  | 1081397 | 724.893 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.22 | 77  | 336802  | 144.625 | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.22 | 96  | 234019  | 150.461 | ug/l | 98     |
| 28) Bromochloromethane        | 4.55 | 49  | 190995  | 142.949 | ug/l | 99     |
| 29) Tetrahydrofuran           | 4.64 | 42  | 714622  | 745.879 | ug/l | 99     |
| 30) Chloroform                | 4.67 | 83  | 382894  | 149.475 | ug/l | 97     |
| 31) Cyclohexane               | 5.00 | 56  | 422910  | 122.663 | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97  | 315024  | 148.074 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.13 | 75  | 311501  | 148.493 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.38 | 43  | 404614  | 149.207 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.13 | 117 | 255235  | 150.957 | ug/l | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120618\  
 Data File : VU028497.D  
 Acq On : 06 Dec 2018 13:19  
 Operator : MD/SY  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VSTDICC150

Manual Integrations  
 APPROVED

MMDadoda  
 12/7/2018 10:35:06 AM

Quant Time: Dec 07 00:28:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:10:10 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 6.41  | 83   | 381700   | 149.147  | ug/l   | 98       |
| 40) Benzene                    | 5.39  | 78   | 921957   | 149.224  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.54  | 41   | 231176   | 155.665  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 5.40  | 62   | 319099   | 147.551  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 5.55  | 43   | 655922   | 152.924  | ug/l   | 100      |
| 44) Trichloroethene            | 6.18  | 130  | 206284   | 150.162  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 6.43  | 63   | 264392   | 152.177  | ug/l   | 98       |
| 46) Dibromomethane             | 6.56  | 93   | 155361   | 150.712  | ug/l   | 99       |
| 47) Bromodichloromethane       | 6.76  | 83   | 303454   | 151.275  | ug/l   | 99       |
| 48) Methyl methacrylate        | 6.62  | 41   | 333330   | 156.271  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 6.61  | 88   | 96218    | 2856.842 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 2079582  | 768.722  | ug/l   | 100      |
| 52) Toluene                    | 7.64  | 92   | 551461   | 151.664  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 378092   | 158.259  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 398363   | 153.691  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 219329   | 152.597  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 399370   | 162.258  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 8.24  | 76   | 402154   | 150.728  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 7.13  | 63   | 1022863  | 811.346  | ug/l   | 99       |
| 59) 2-Hexanone                 | 8.36  | 43   | 1640260  | 764.977  | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.48  | 129  | 219511   | 155.990  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 8.58  | 107  | 236187   | 156.700  | ug/l   | 98       |
| 64) Tetrachloroethene          | 8.23  | 164  | 174878   | 142.358  | ug/l   | 99       |
| 65) Chlorobenzene              | 9.12  | 112  | 580596   | 147.944  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 194604   | 155.286  | ug/l   | 99       |
| 67) Ethyl Benzene              | 9.25  | 91   | 1083897  | 150.242  | ug/l   | 99       |
| 68) m/p-Xylenes                | 9.38  | 106  | 804229   | 306.361  | ug/l   | 99       |
| 69) o-Xylene                   | 9.78  | 106  | 391258   | 153.370  | ug/l   | 100      |
| 70) Styrene                    | 9.79  | 104  | 665804   | 157.705  | ug/l   | 99       |
| 71) Bromoform                  | 9.96  | 173  | 176378   | 165.445  | ug/l # | 99       |
| 73) Isopropylbenzene           | 10.17 | 105  | 1038978  | 139.748  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.01 | 43   | 629913   | 146.884  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 415948   | 145.642  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 10.49 | 75   | 358456m  | 128.239  | ug/l   |          |
| 77) Bromobenzene               | 10.45 | 156  | 251840   | 144.838  | ug/l   | 100      |
| 78) n-propylbenzene            | 10.59 | 91   | 1317667  | 142.632  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 752764   | 141.459  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 893609   | 145.204  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 147711m  | 106.852  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 902453   | 143.111  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.10 | 119  | 860256   | 145.025  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 918008   | 144.742  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.32 | 105  | 1104056  | 144.882  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 944074   | 145.842  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 473157   | 144.112  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 11.51 | 146  | 478684   | 140.917  | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.89 | 91   | 993212   | 151.607  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.14 | 117  | 152851   | 156.223  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 469954   | 143.097  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 94207    | 152.362  | ug/l   | 99       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120618\  
Data File : VU028497.D  
Acq On : 06 Dec 2018 13:19  
Operator : MD/SY  
Sample : VSTDICC150  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

MMDadoda  
12/7/2018 10:35:06 AM

Quant Time: Dec 07 00:28:43 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 07 00:10:10 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.50 | 180  | 344058   | 146.124 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.69 | 225  | 151604   | 140.924 | ug/l  | 97       |
| 95) Naphthalene            | 13.74 | 128  | 1160890  | 147.307 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 338307   | 142.815 | ug/l  | 100      |

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

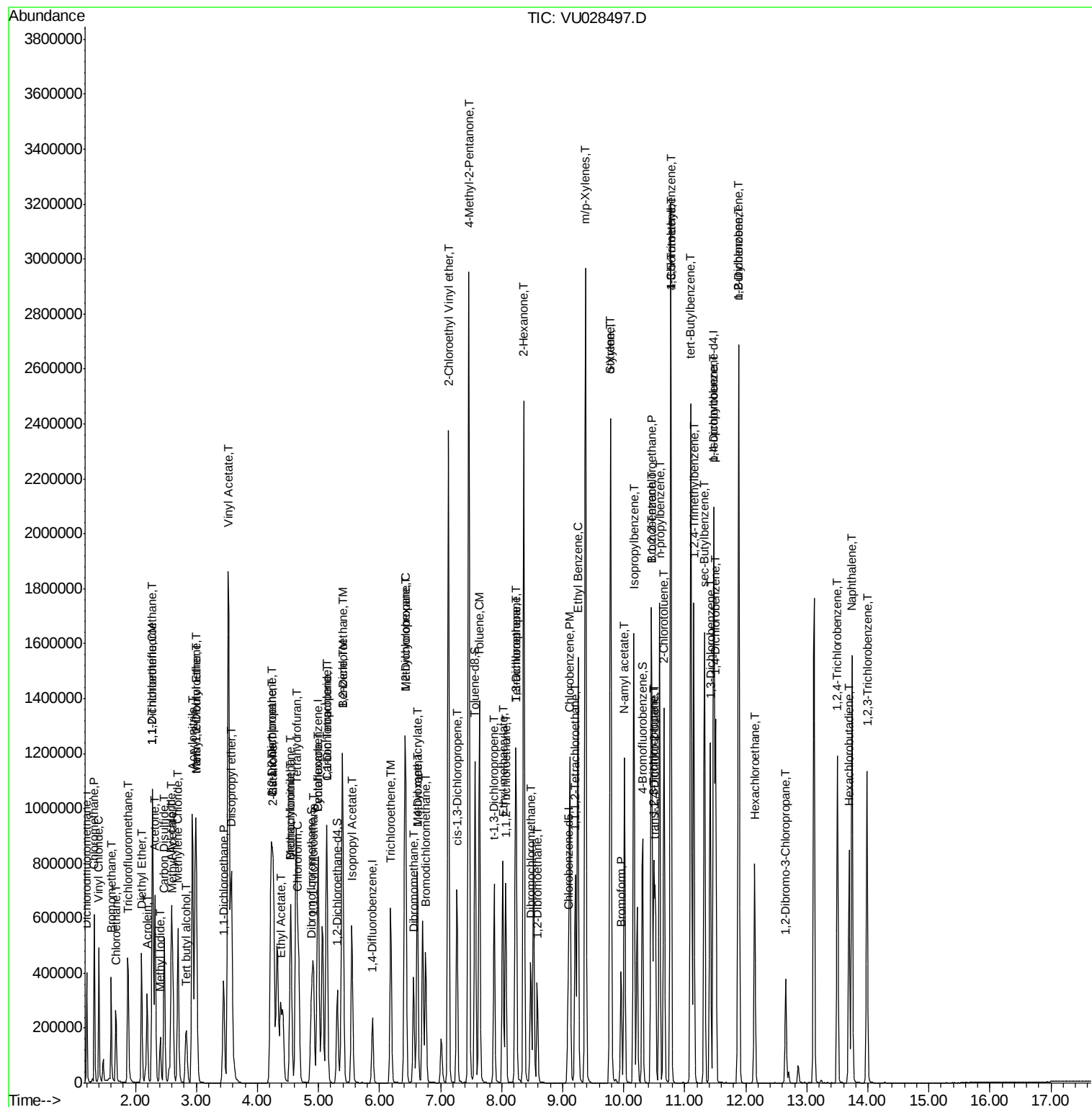
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Data File : VU028497.D  
Acq On : 06 Dec 2018 13:19  
Operator : MD/SY  
Sample : VSTDIC150  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 7 Sample Multiplier: 1

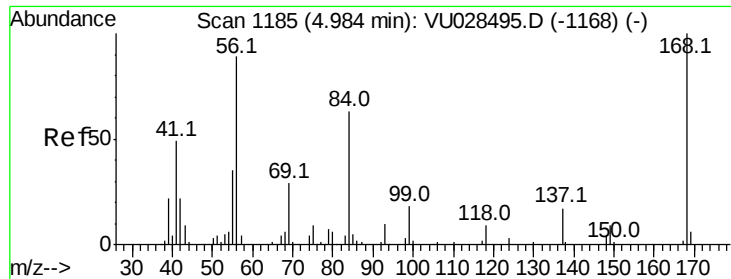
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

Manual Integrations  
APPROVED

MMDaDoda  
12/7/2018 10:35:06 AM

Quant Time: Dec 07 00:28:43 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 07 00:10:10 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 109619

Ion Ratio Lower Upper

168 100

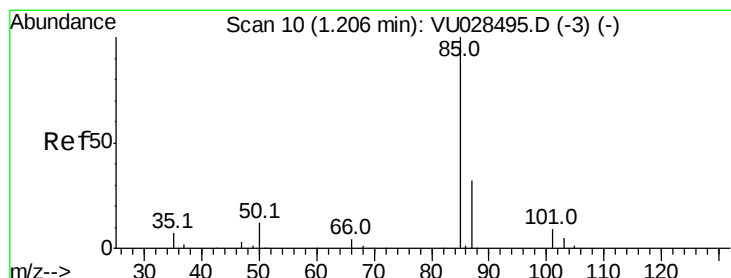
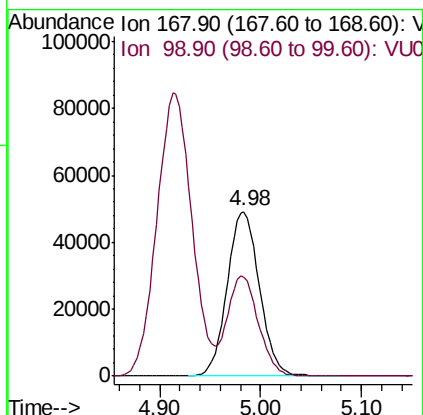
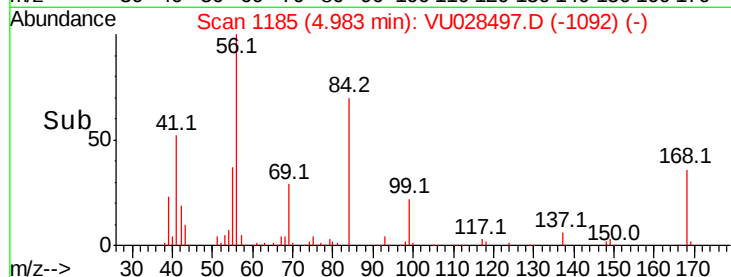
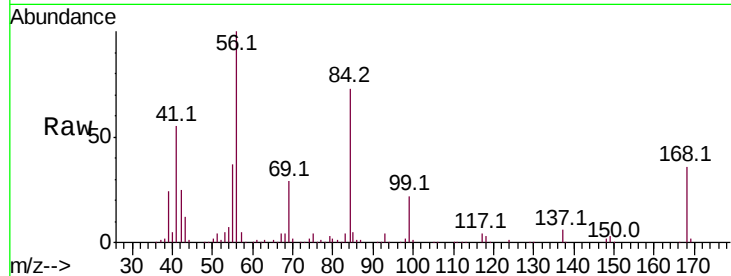
99 60.6 46.6 69.8

Manual Integrations

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12/7/2018 10:35:06 AM



#2

Dichlorodifluoromethane

Concen: 150.125 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028497.D

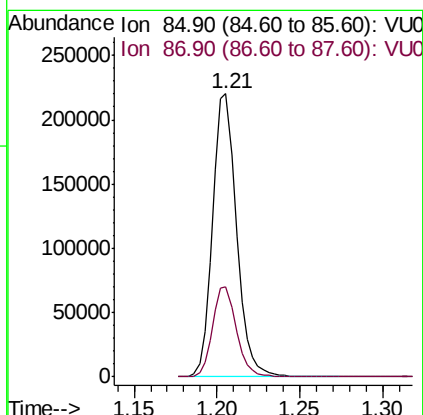
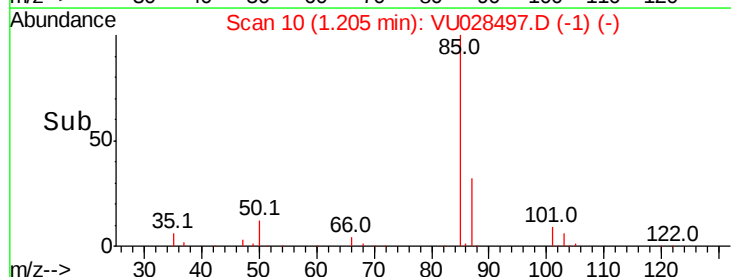
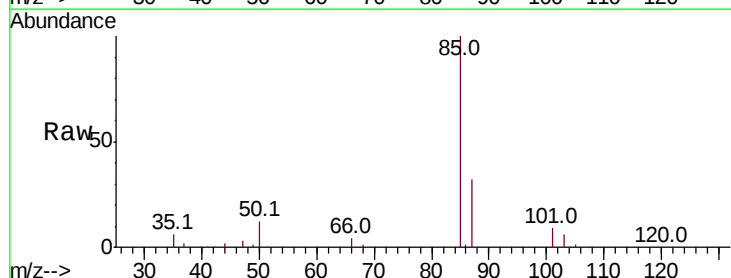
Acq: 06 Dec 2018 13:19

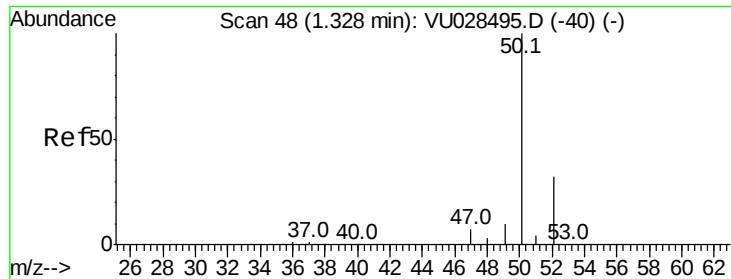
Tgt Ion: 85 Resp: 220578

Ion Ratio Lower Upper

85 100

87 31.8 15.9 47.6





#3

Chloromethane

Concen: 149.308 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Tot Ion: 50 Resp: 403322

Ion Ratio Lower Upper

50 100

52 32.1 25.5 38.3

Instrument :

MSVOA\_U

ClientSampleId :

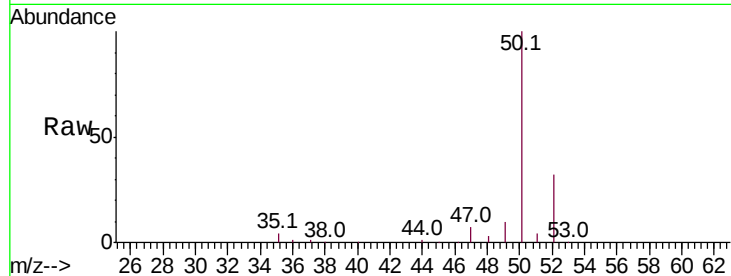
VSTDIC150

Manual Integrations

APPROVED

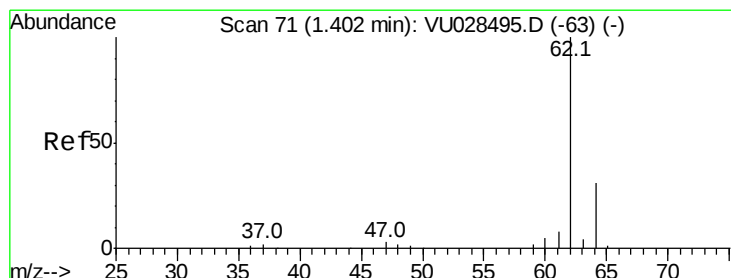
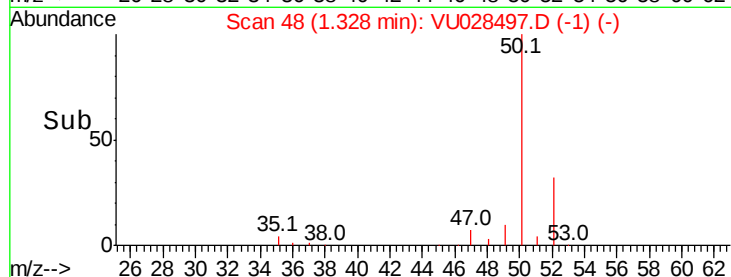
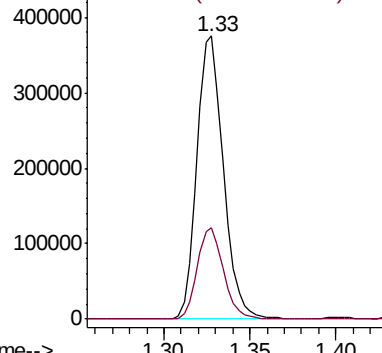
MMDadoda

12/7/2018 10:35:06 AM



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 150.721 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028497.D

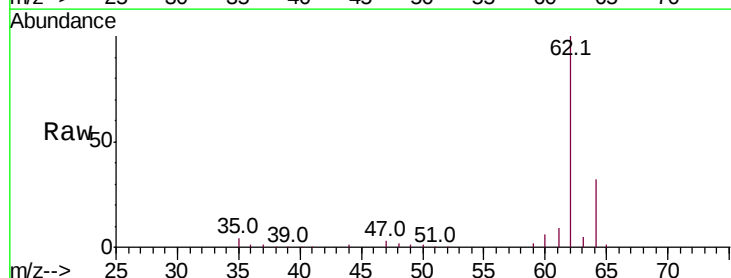
Acq: 06 Dec 2018 13:19

Tgt Ion: 62 Resp: 293817

Ion Ratio Lower Upper

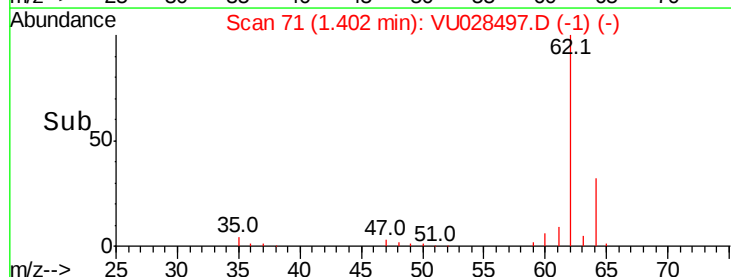
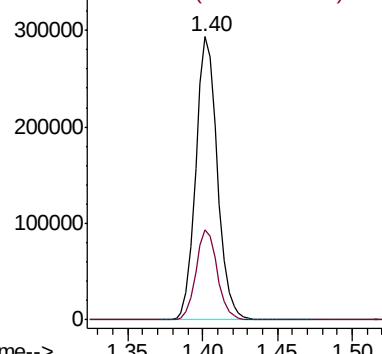
62 100

64 31.8 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 160.830 ug/l

RT: 1.60 min Scan# 134

Delta R.T. -0.02 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 126294

Ion Ratio Lower Upper

94 100

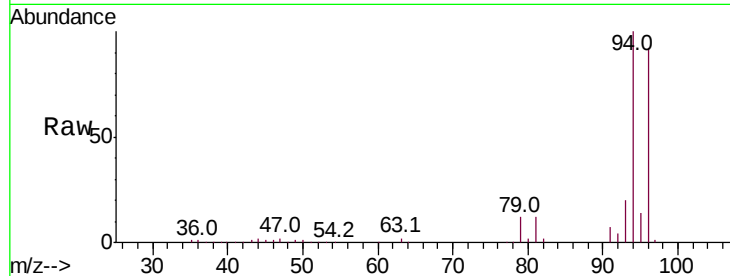
96 92.4 73.2 109.8

Manual Integrations

APPROVED

MMDadoda

12/7/2018 10:35:06 AM



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

150000

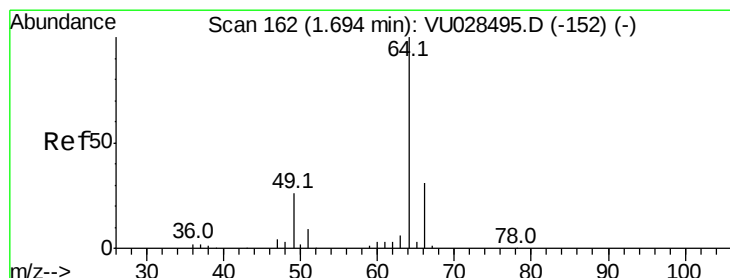
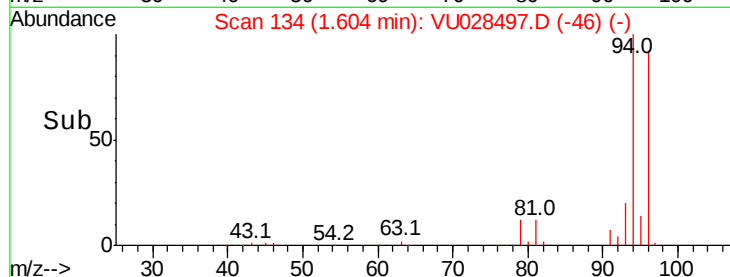
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50000

0

1.55 1.60 1.65

Time-->



#6

Chloroethane

Concen: 150.469 ug/l

RT: 1.68 min Scan# 158

Delta R.T. -0.01 min

Lab File: VU028497.D

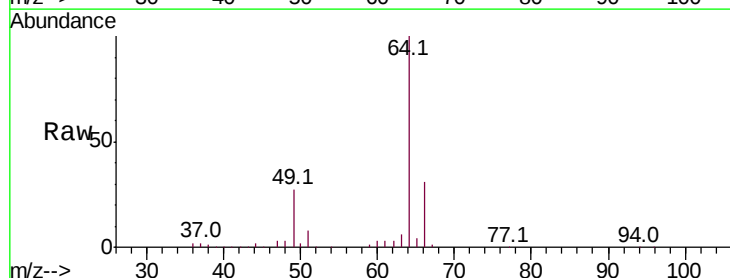
Acq: 06 Dec 2018 13:19

Tgt Ion: 64 Resp: 166060

Ion Ratio Lower Upper

64 100

66 30.7 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

150000

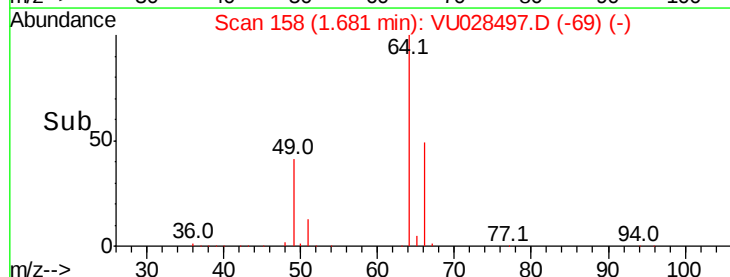
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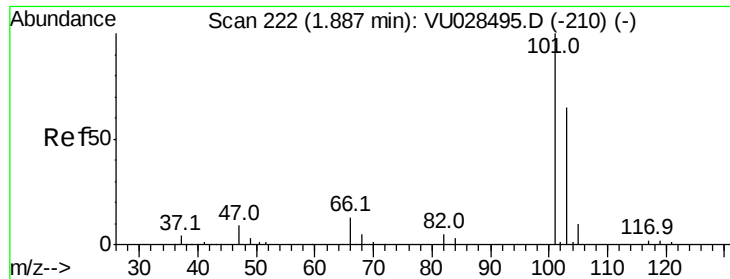
50000

0

1.65 1.70 1.75

Time-->





#7

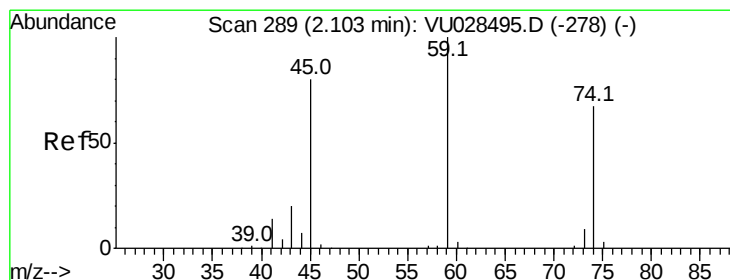
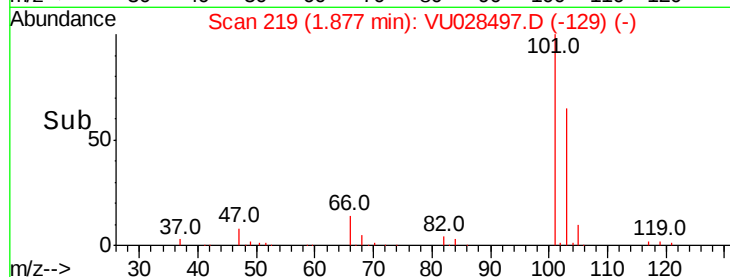
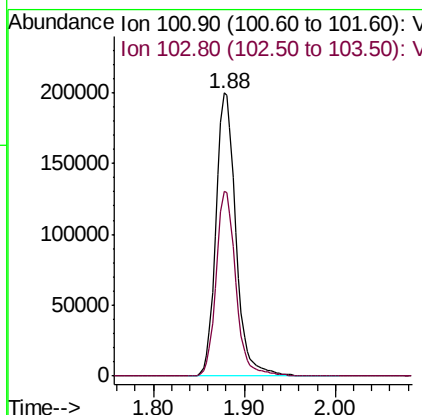
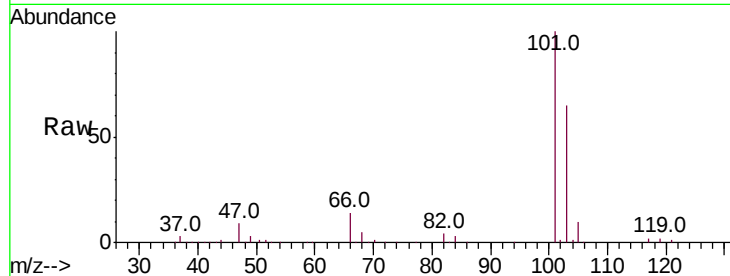
Trichlorofluoromethane  
Concen: 148.505 ug/l  
RT: 1.88 min Scan# 219  
Delta R.T. -0.01 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 65.2  | 52.3  | 78.5  |

Manual Integrations  
APPROVED

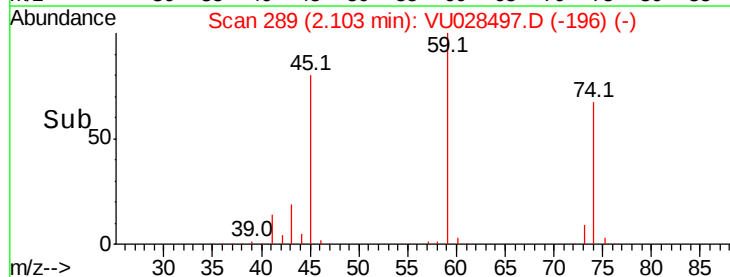
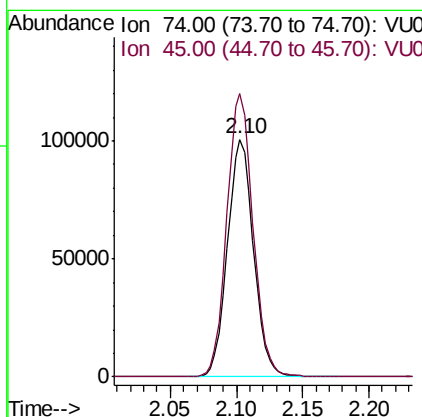
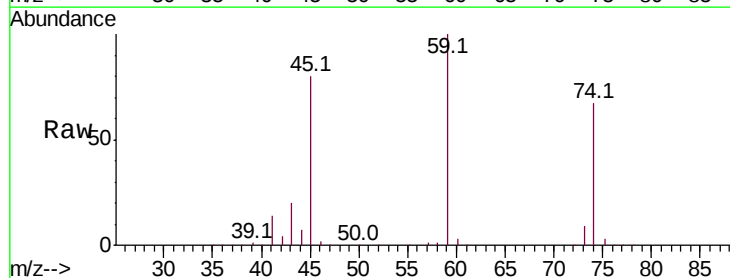
MMDadoda  
12/7/2018 10:35:06 AM

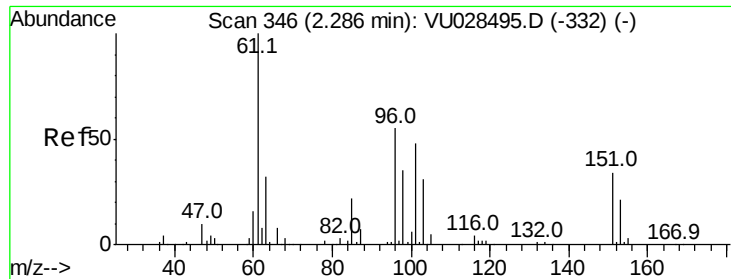


#8

Diethyl Ether  
Concen: 143.537 ug/l  
RT: 2.10 min Scan# 289  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 119.4 | 59.7  | 179.0 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 148.988 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

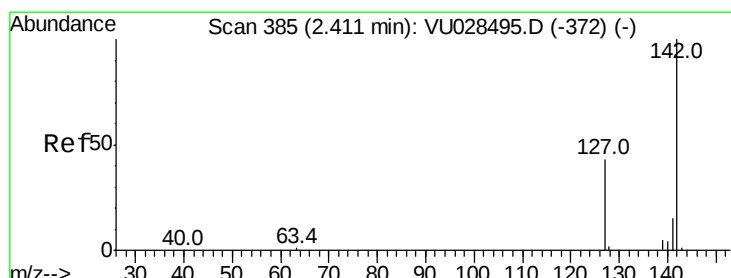
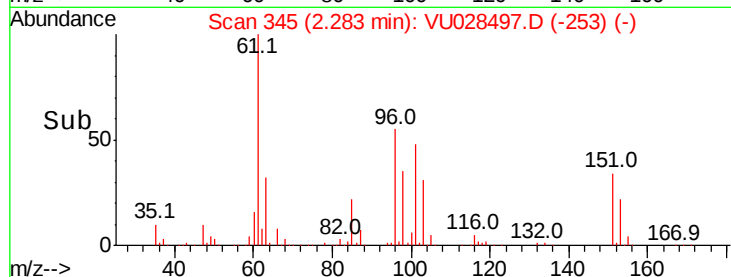
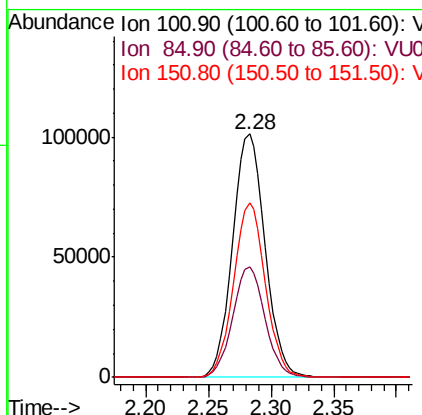
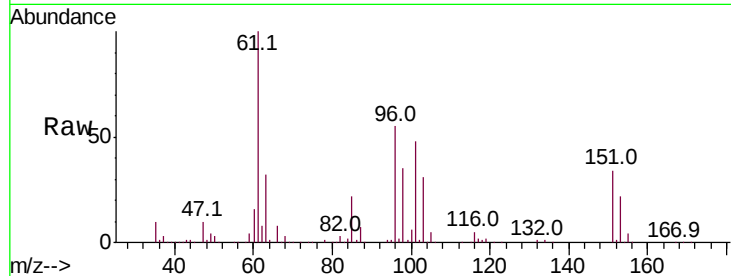
ClientSampleId :

VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 182754 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 45.0  | 36.4  | 54.6   |
| 151       | 70.0  | 58.2  | 87.2   |

Manual Integrations  
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MMDadoda  
12/7/2018 10:35:06 AM



#10

Methyl Iodide

Concen: 167.443 ug/l

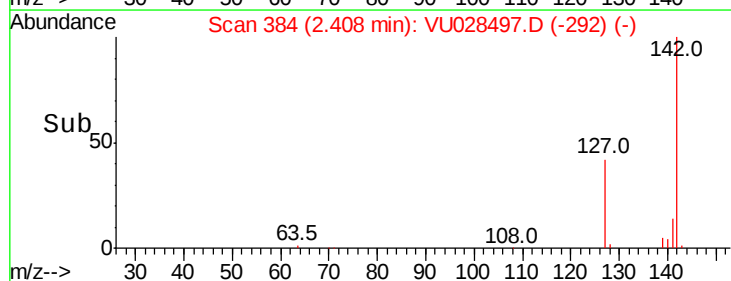
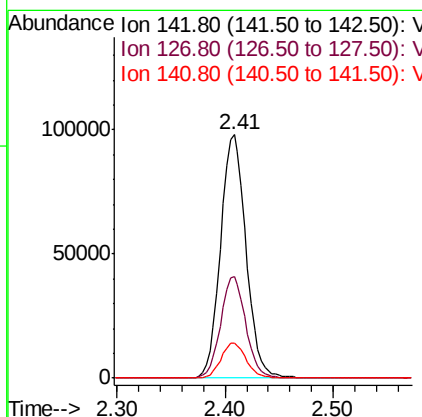
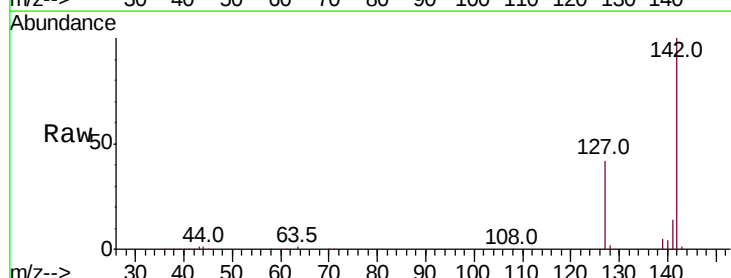
RT: 2.41 min Scan# 384

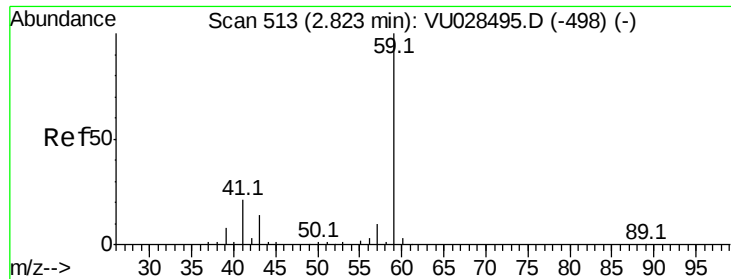
Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 161161 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 41.2  | 33.5  | 50.3   |
| 141       | 14.3  | 11.2  | 16.8   |





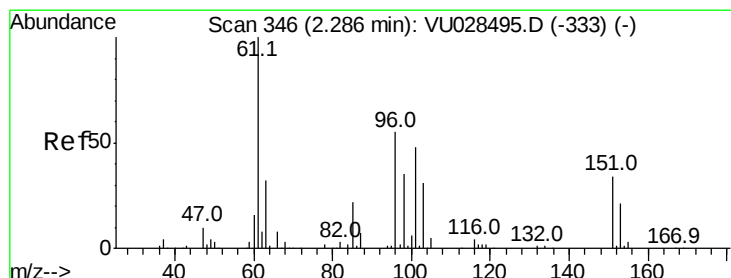
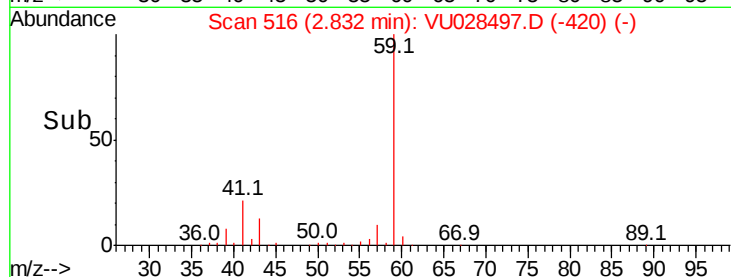
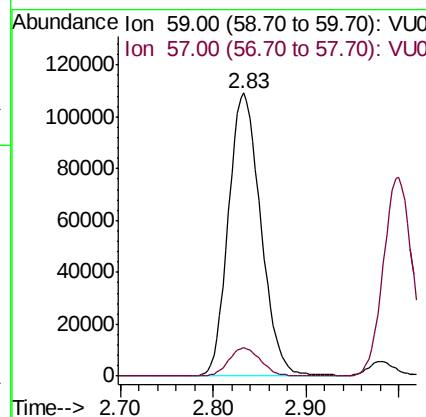
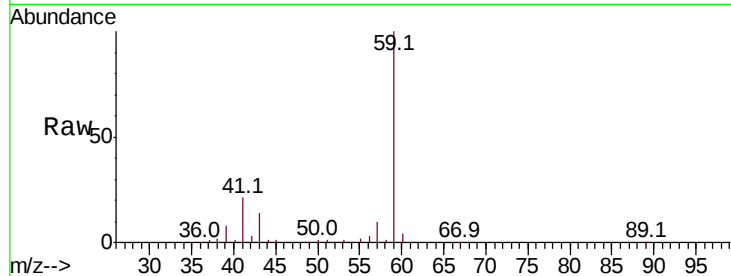
#11  
Tert butyl alcohol  
Concen: 711.035 ug/l  
RT: 2.83 min Scan# 516  
Delta R.T. 0.01 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 59      | 100   | 265007 |       |       |
| 57      | 9.9   |        | 8.0   | 12.0  |

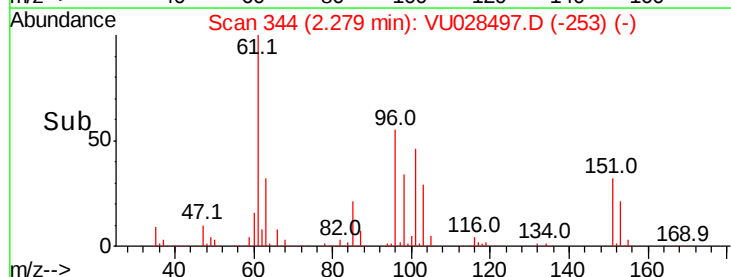
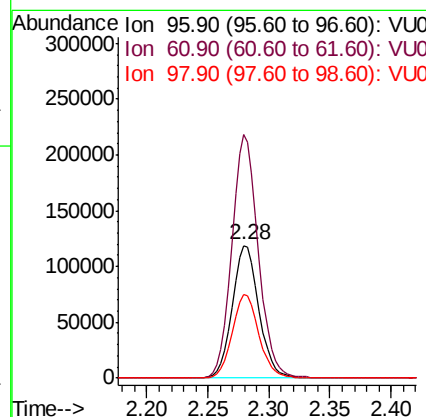
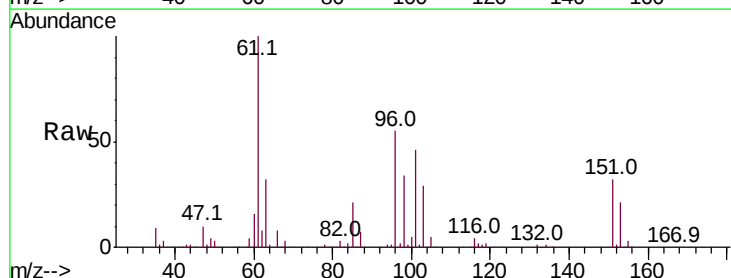
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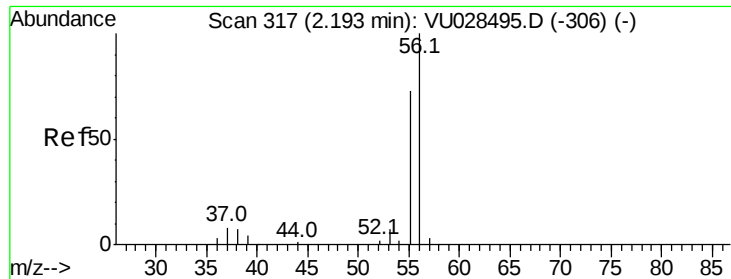
MMDadoda  
12/7/2018 10:35:06 AM



#12  
1,1-Dichloroethene  
Concen: 148.373 ug/l  
RT: 2.28 min Scan# 344  
Delta R.T. -0.01 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 96      | 100   | 181086 |       |       |
| 61      | 183.4 |        | 146.4 | 219.6 |
| 98      | 62.6  |        | 51.8  | 77.8  |





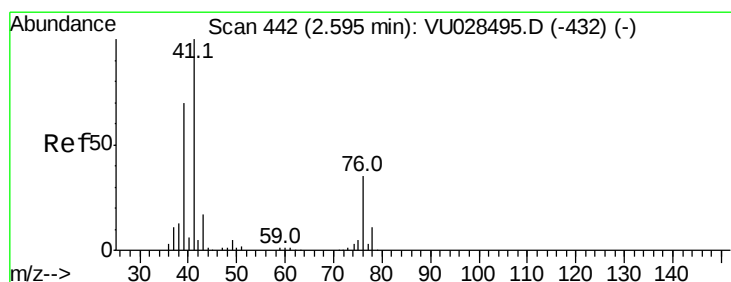
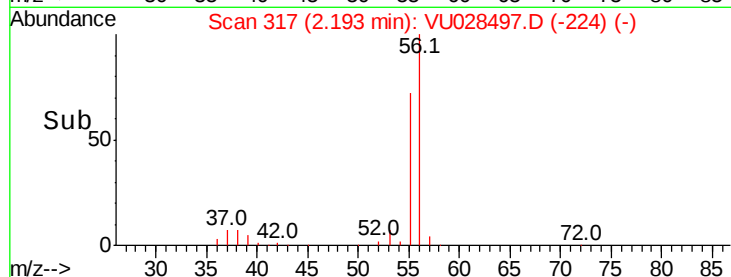
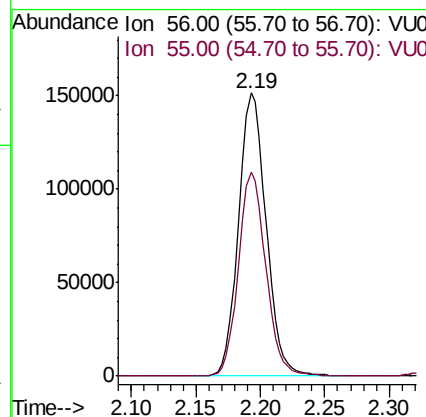
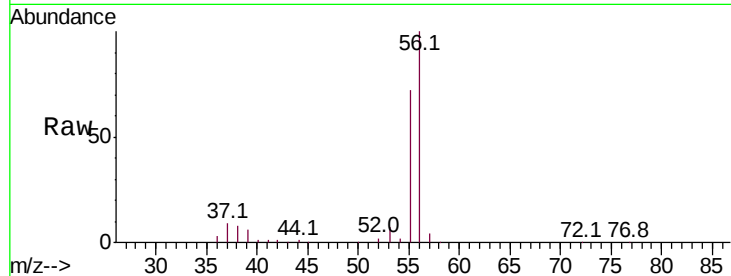
#13  
Acrolein  
Concen: 759.615 ug/l  
RT: 2.19 min Scan# 317  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 55      | 71.7  | 57.5  | 86.3  |

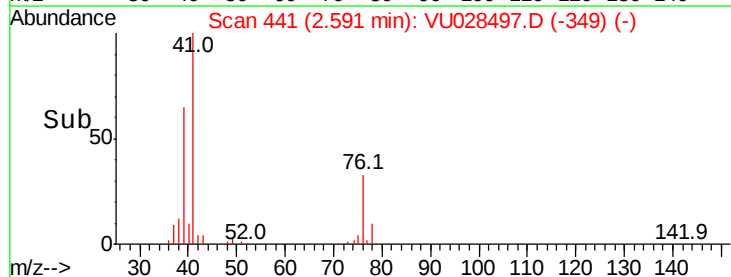
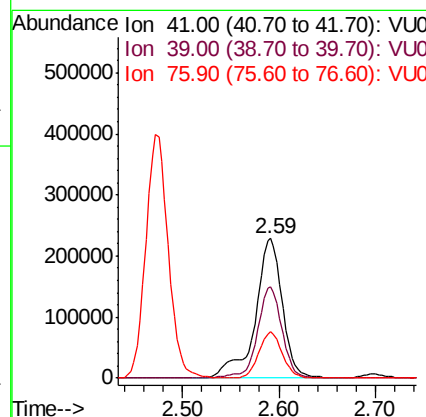
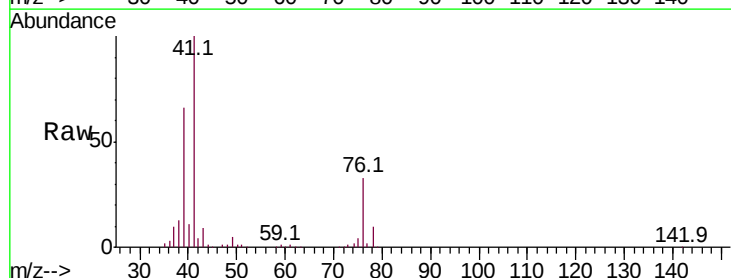
Manual Integrations  
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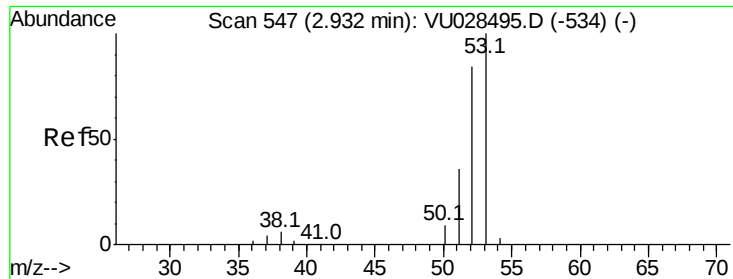
MMDadoda  
12/7/2018 10:35:06 AM



#14  
Allyl chloride  
Concen: 154.666 ug/l  
RT: 2.59 min Scan# 441  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 58.6  | 50.8  | 76.2  |
| 76      | 28.1  | 24.8  | 37.2  |





#15

Acrylonitrile

Concen: 746.581 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

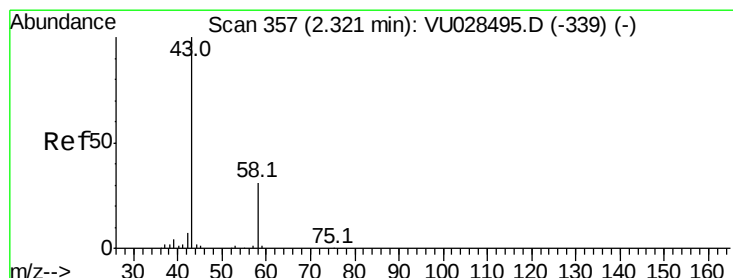
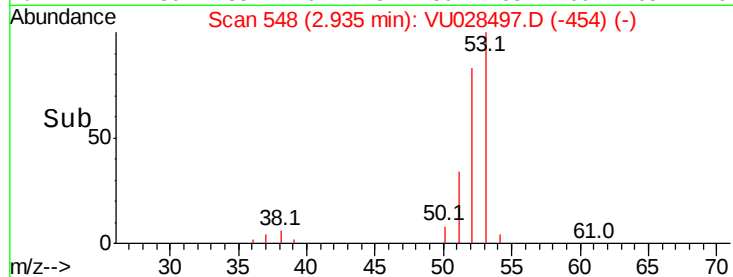
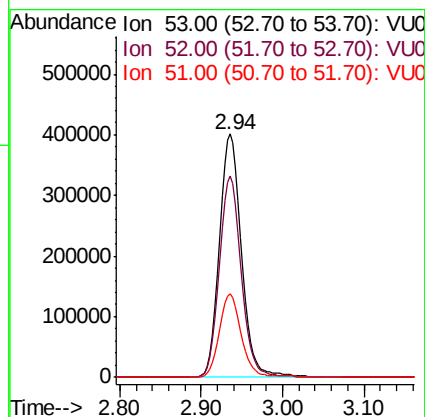
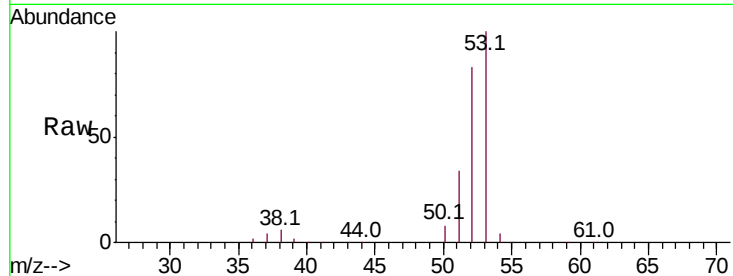
ClientSampleId :

VSTDIC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 772524 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 82.2  | 66.1  | 99.1   |
| 51       | 34.6  | 28.1  | 42.1   |

Manual Integrations  
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12/7/2018 10:35:06 AM



#16

Acetone

Concen: 639.359 ug/l

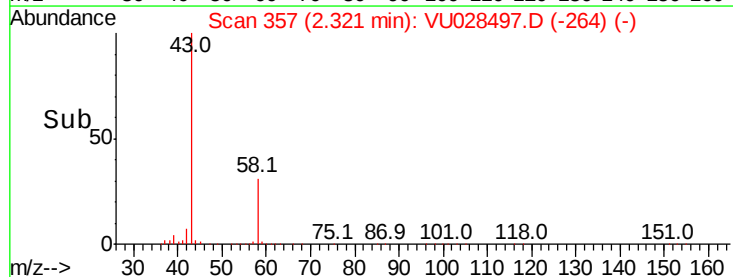
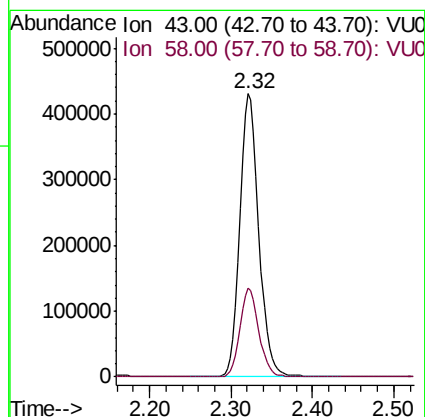
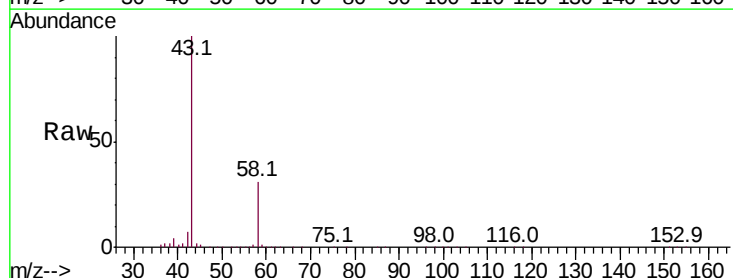
RT: 2.32 min Scan# 357

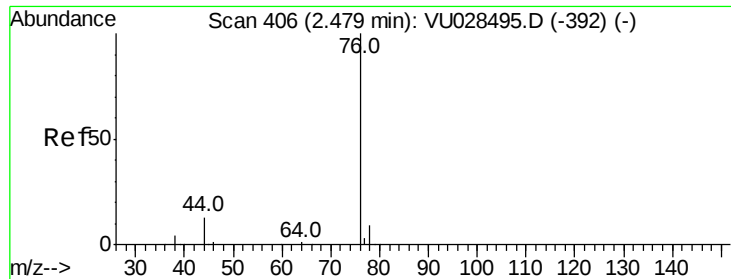
Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 697935 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 31.2  | 24.6  | 37.0   |





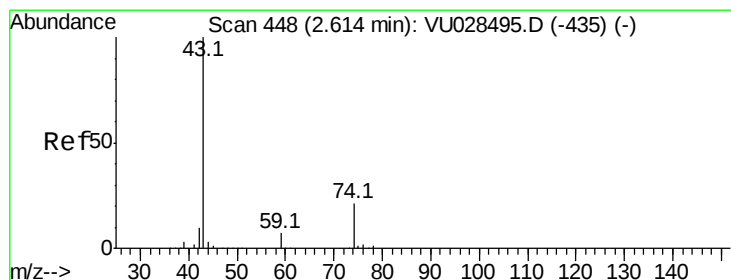
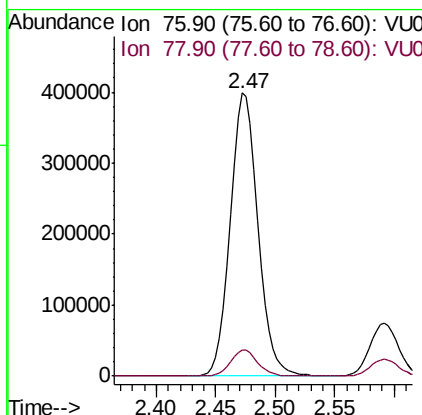
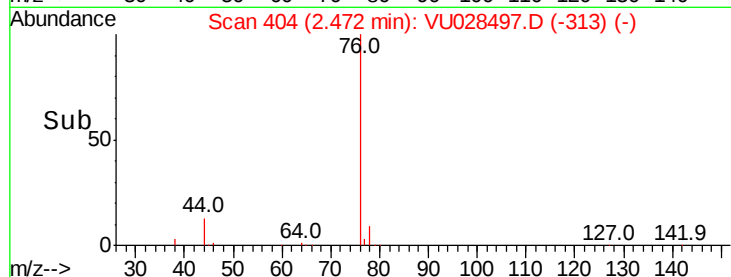
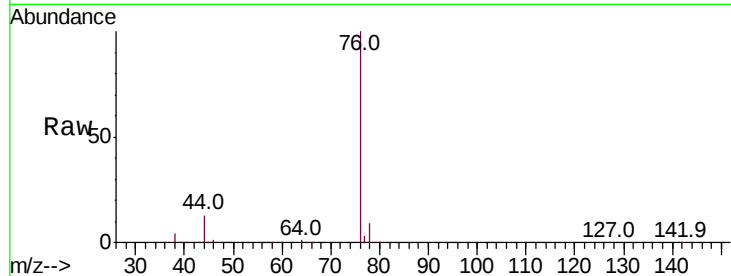
#17  
Carbon Disulfide  
Concen: 146.579 ug/l  
RT: 2.47 min Scan# 404  
Delta R.T. -0.01 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.2   | 7.2   | 10.8  |

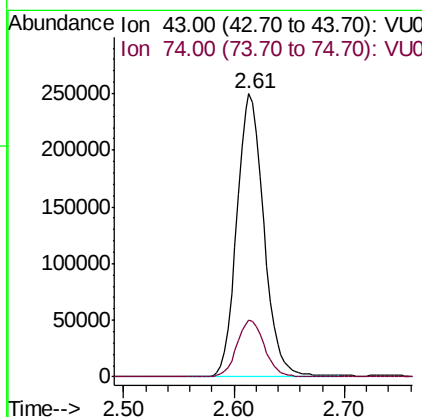
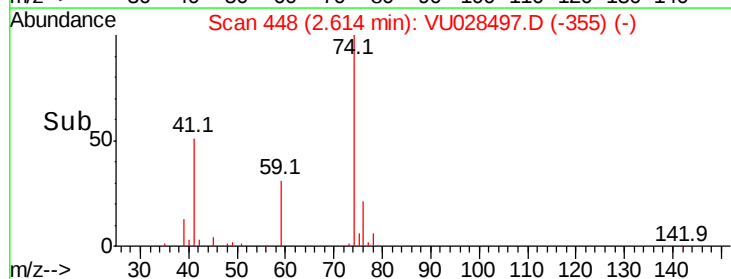
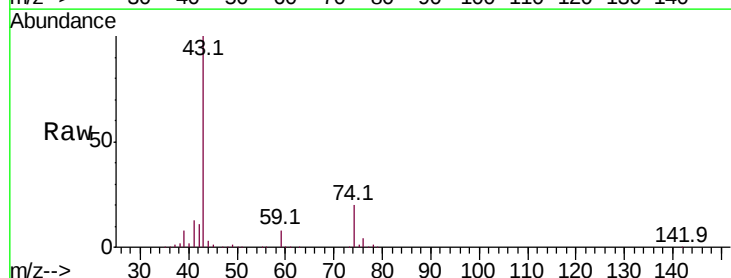
Manual Integrations  
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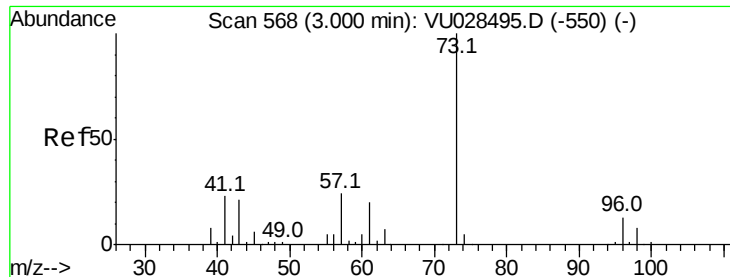
MMDadoda  
12/7/2018 10:35:06 AM



#18  
Methyl Acetate  
Concen: 149.740 ug/l  
RT: 2.61 min Scan# 448  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 20.5  | 16.4  | 24.6  |





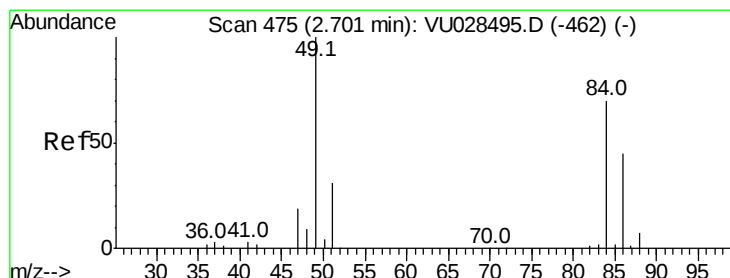
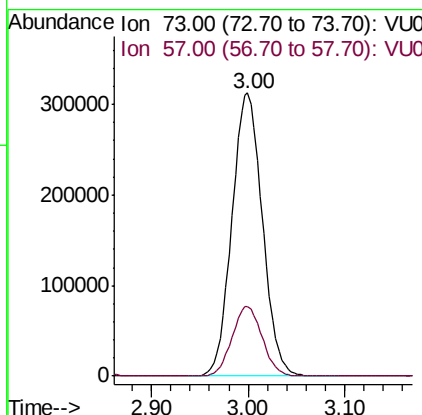
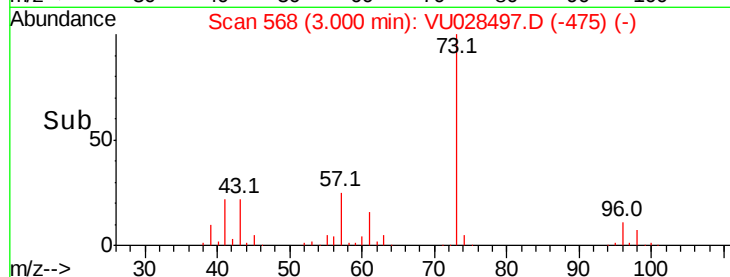
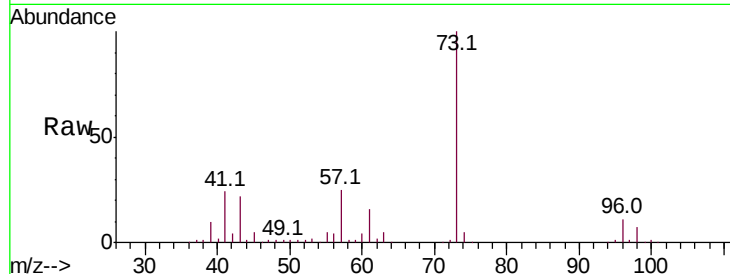
#19  
Methvl tert-butvl Ether  
Concen: 147.573 ug/l  
RT: 3.00 min Scan# 568  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

Tot Ion: 73 Resp: 682779  
Ion Ratio Lower Upper  
73 100  
57 24.6 19.4 29.2

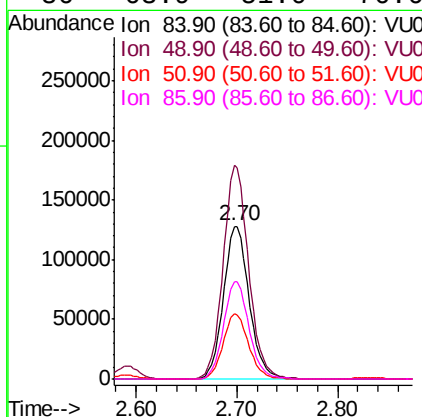
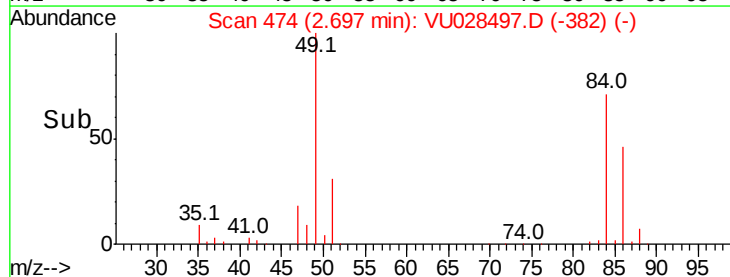
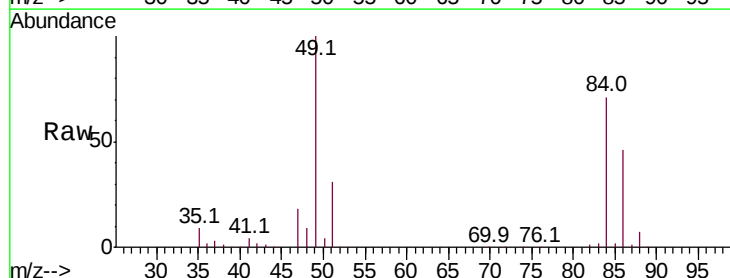
Manual Integrations  
APPROVED

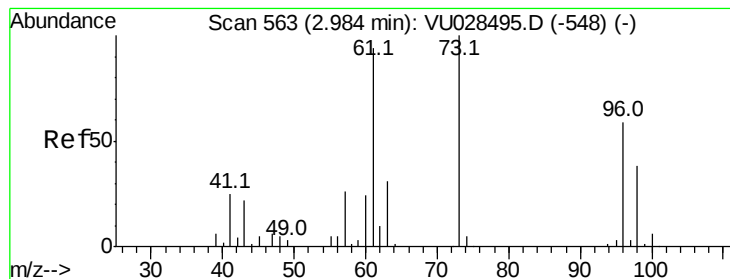
MMDadoda  
12/7/2018 10:35:06 AM



#20  
Methylene Chloride  
Concen: 141.326 ug/l  
RT: 2.70 min Scan# 474  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Tgt Ion: 84 Resp: 227423  
Ion Ratio Lower Upper  
84 100  
49 140.0 114.0 171.0  
51 42.9 35.1 52.7  
86 63.9 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 147.172 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 96 Resp: 202238

Ion Ratio Lower Upper

96 100

61 159.3 127.0 190.4

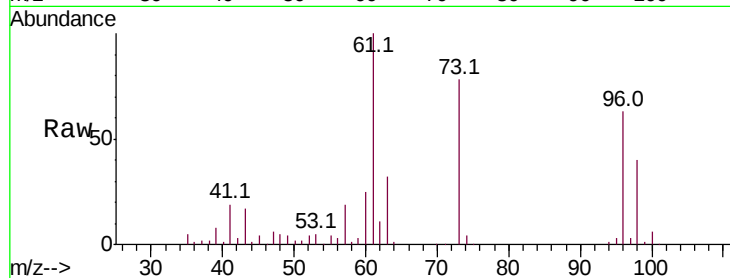
98 63.8 51.9 77.9

Manual Integrations

APPROVED

MMDadoda

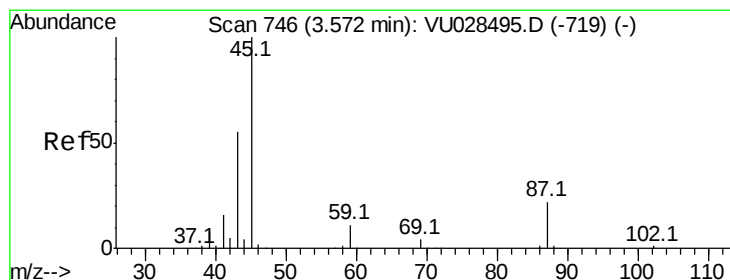
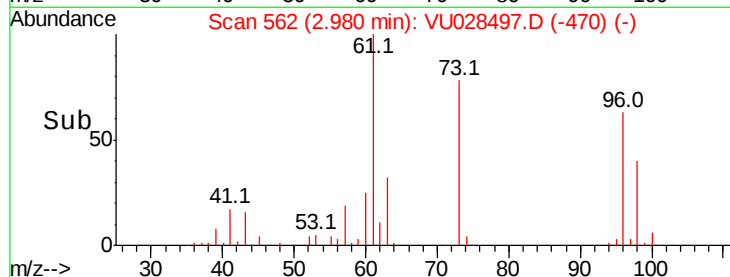
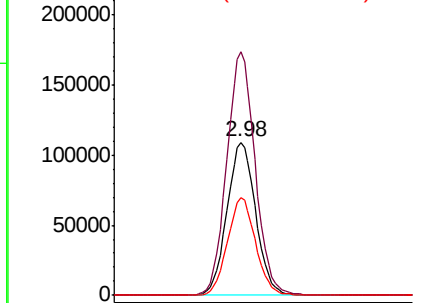
12/7/2018 10:35:06 AM



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 148.419 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Tgt Ion: 45 Resp: 833334

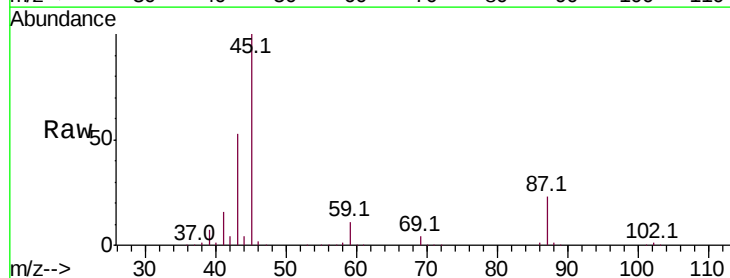
Ion Ratio Lower Upper

45 100

43 53.0 45.3 67.9

87 22.8 17.6 26.4

59 11.0 8.8 13.2

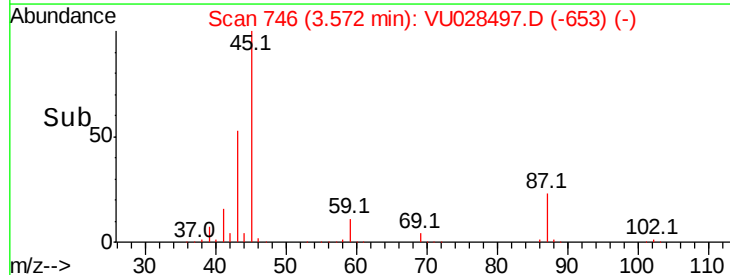
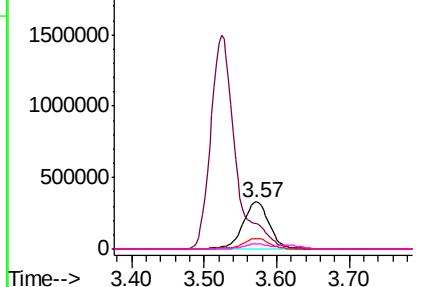


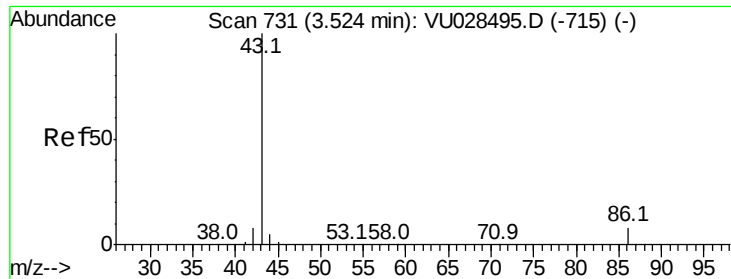
Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





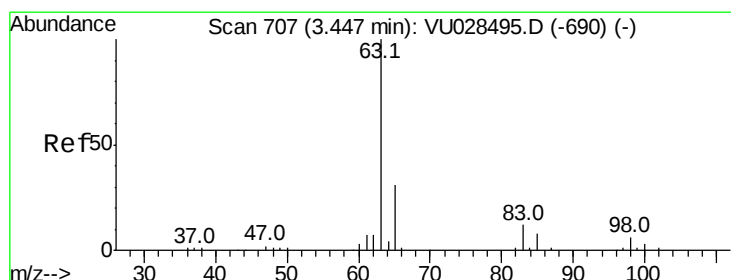
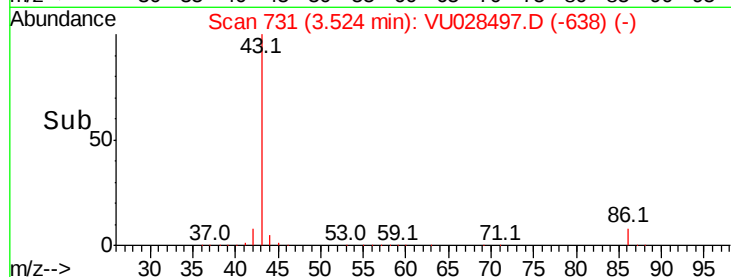
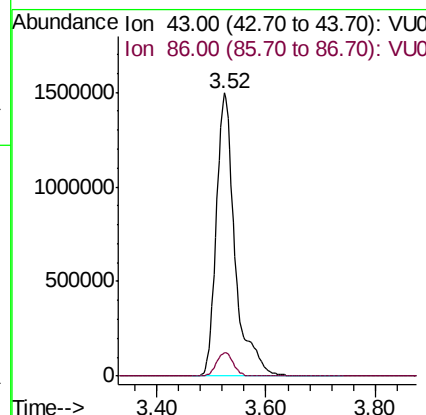
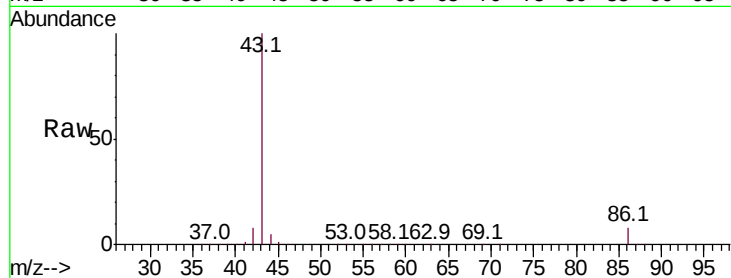
#23  
 Vinyl Acetate  
 Concen: 766.282 ug/l  
 RT: 3.52 min Scan# 731  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

Tot Ion: 43 Resp: 3548856  
 Ion Ratio Lower Upper  
 43 100  
 86 8.4 6.8 10.2

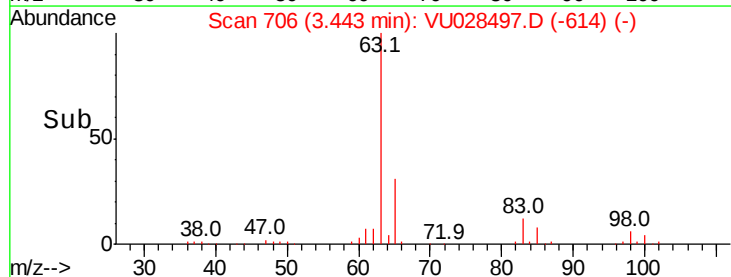
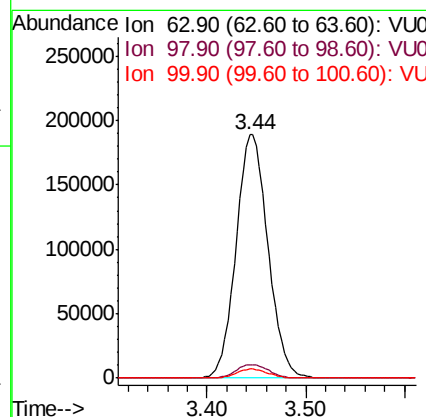
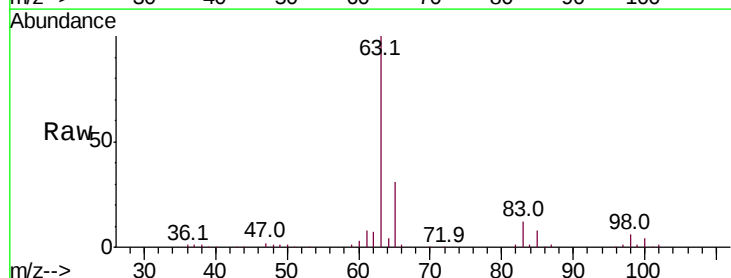
Manual Integrations  
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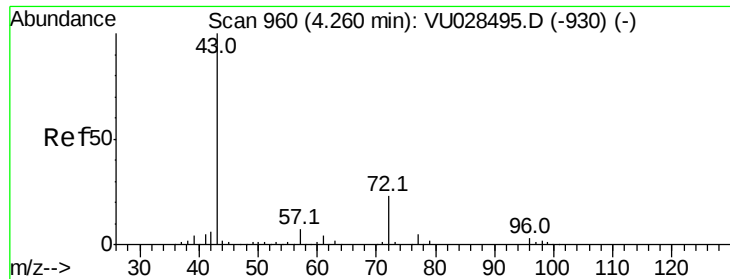
MMDadoda  
 12/7/2018 10:35:06 AM



#24  
 1,1-Dichloroethane  
 Concen: 144.402 ug/l  
 RT: 3.44 min Scan# 706  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Tgt Ion: 63 Resp: 424410  
 Ion Ratio Lower Upper  
 63 100  
 98 5.7 3.0 9.2  
 100 3.6 1.7 5.1





#25

2-Butanone

Concen: 724.893 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1081397

Ion Ratio Lower Upper

43 100

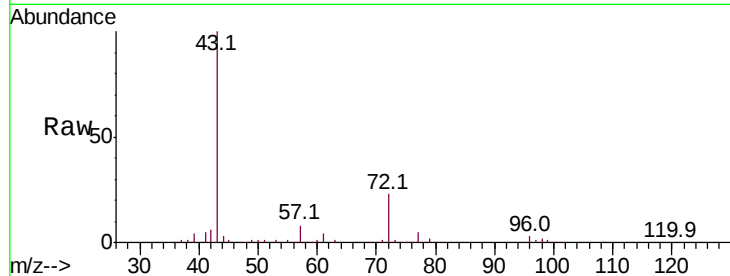
72 23.0 18.6 28.0

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12/7/2018 10:35:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.26

500000

400000

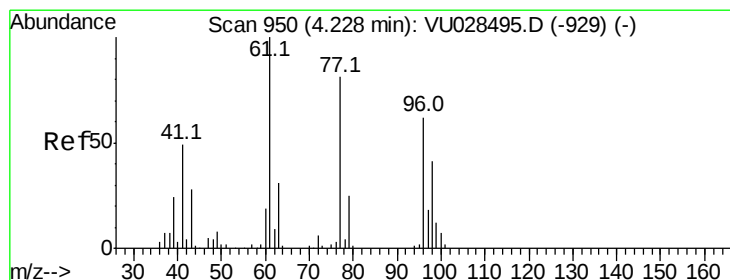
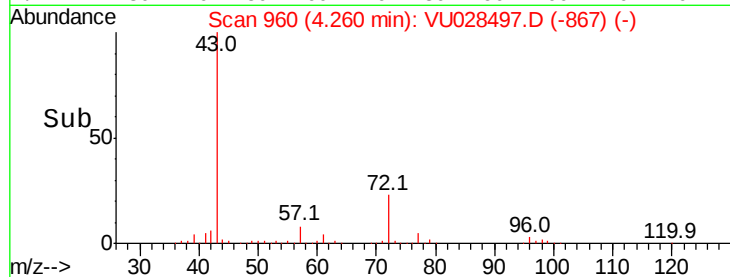
300000

200000

100000

0

Time--> 4.10 4.20 4.30



#26

2,2-Dichloropropane

Concen: 144.625 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028497.D

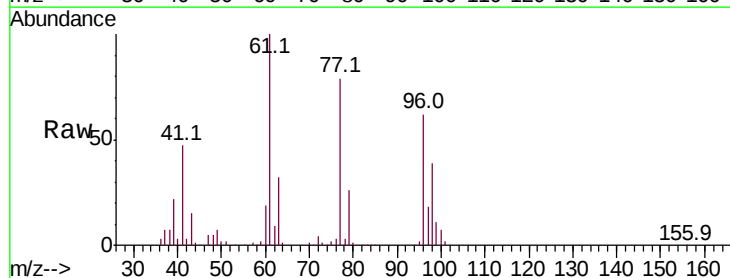
Acq: 06 Dec 2018 13:19

Tgt Ion: 77 Resp: 336802

Ion Ratio Lower Upper

77 100

97 22.4 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

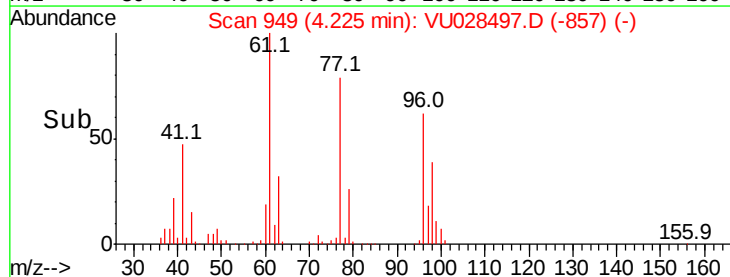
4.22

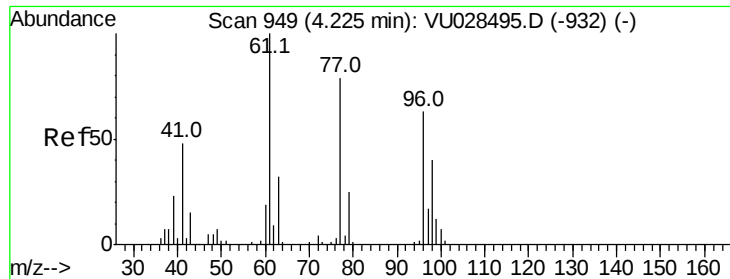
100000

50000

0

Time--> 4.10 4.20 4.30





#27

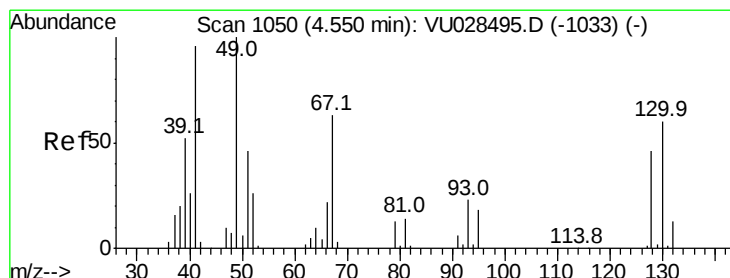
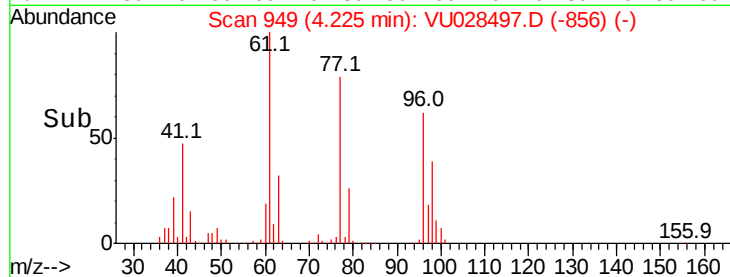
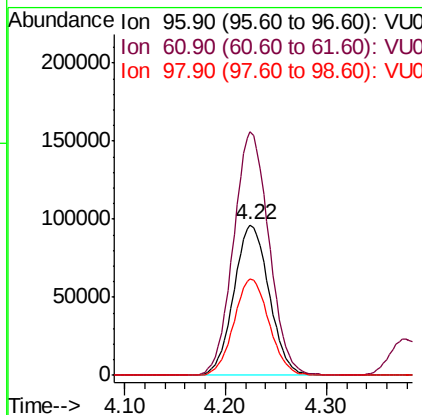
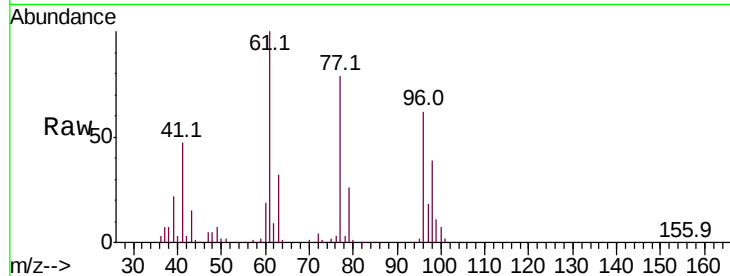
cis-1,2-Dichloroethene  
Concen: 150.461 ug/l  
RT: 4.22 min Scan# 949  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 163.0 | 0.0   | 332.4 |
| 98      | 63.8  | 0.0   | 129.0 |

Manual Integrations  
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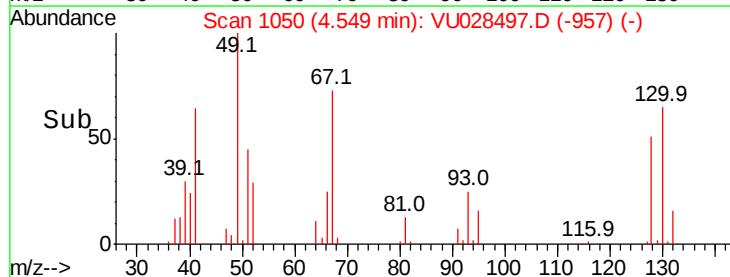
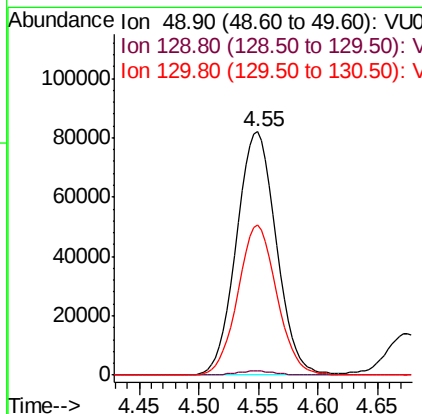
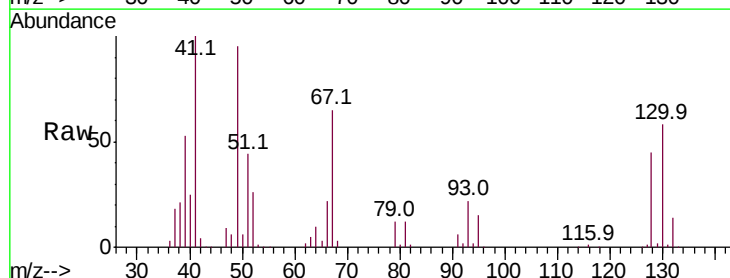
MMDadoda  
12/7/2018 10:35:06 AM

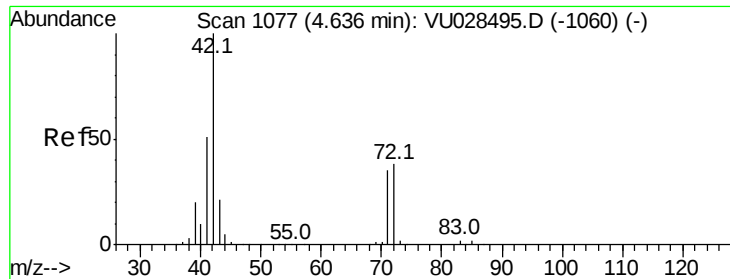


#28

Bromochloromethane  
Concen: 142.949 ug/l  
RT: 4.55 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 1.6   | 0.0   | 3.0   |
| 130     | 60.2  | 47.8  | 71.8  |





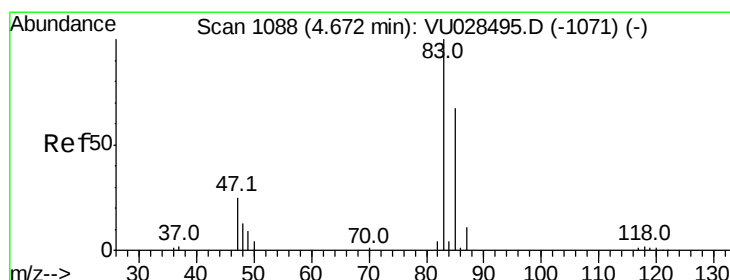
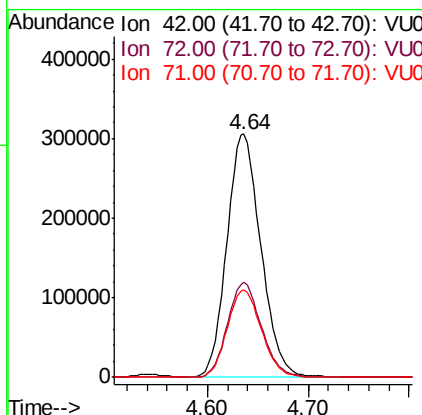
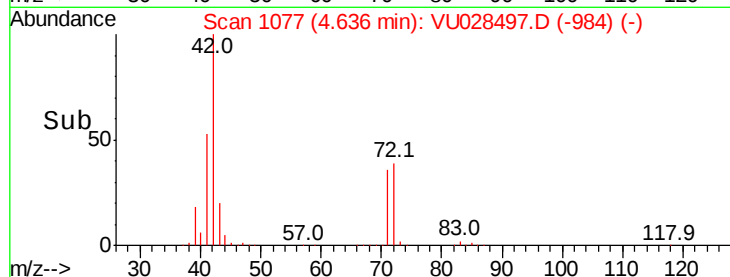
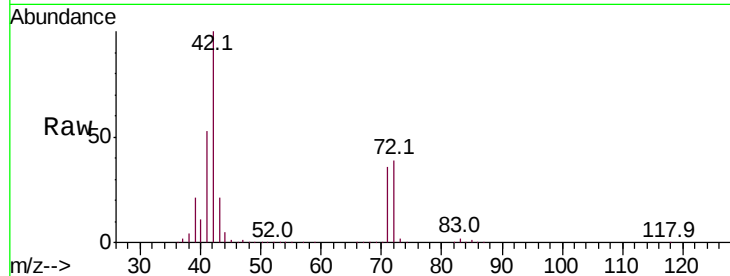
#29  
Tetrahydrofuran  
Concen: 745.879 ug/l  
RT: 4.64 min Scan# 1077  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 39.2  | 31.4  | 47.0  |
| 71      | 36.4  | 28.6  | 43.0  |

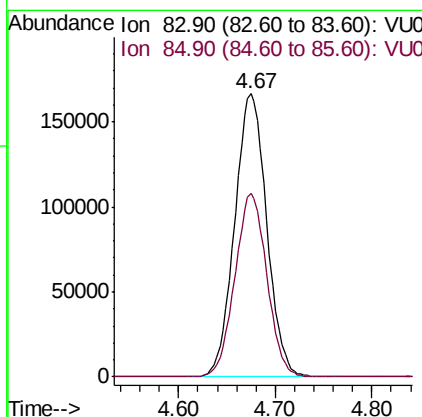
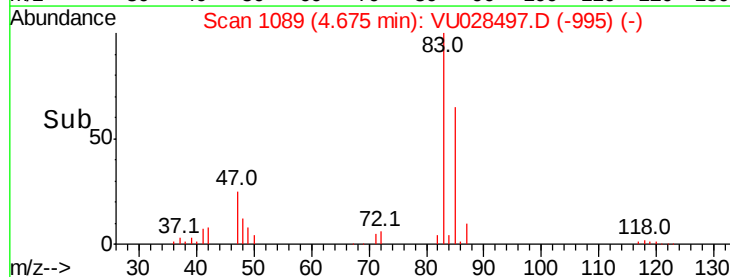
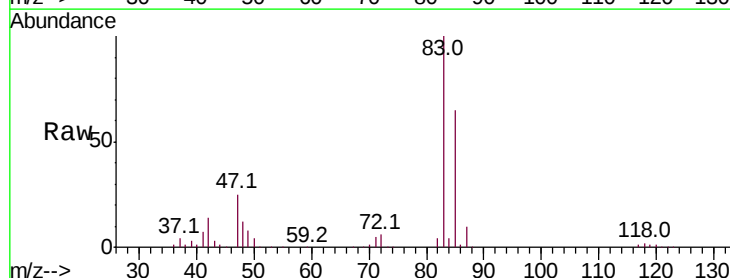
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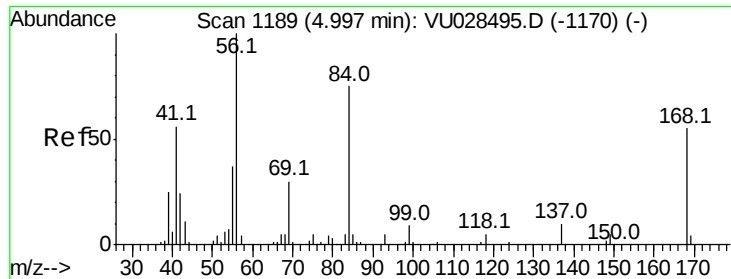
MMDadoda  
12/7/2018 10:35:06 AM



#30  
Chloroform  
Concen: 149.475 ug/l  
RT: 4.67 min Scan# 1089  
Delta R.T. 0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.9  | 53.6  | 80.4  |





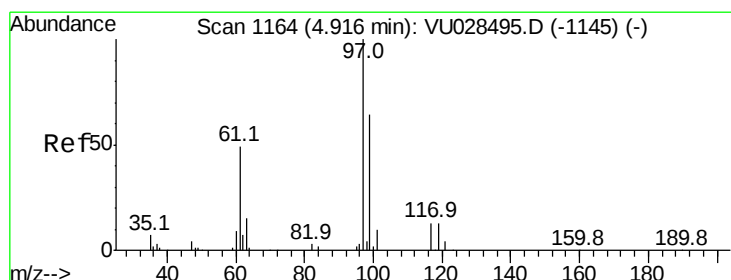
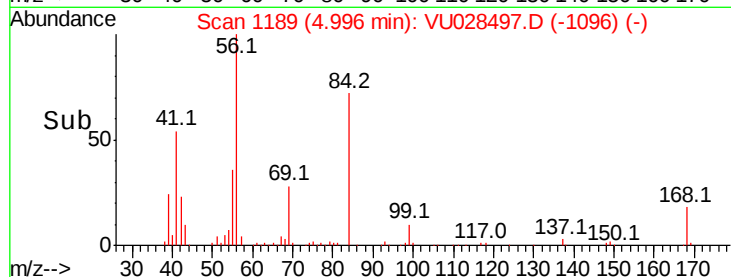
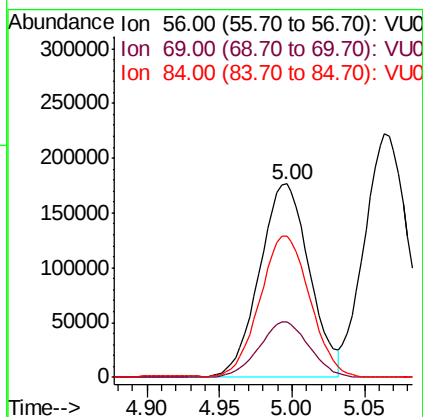
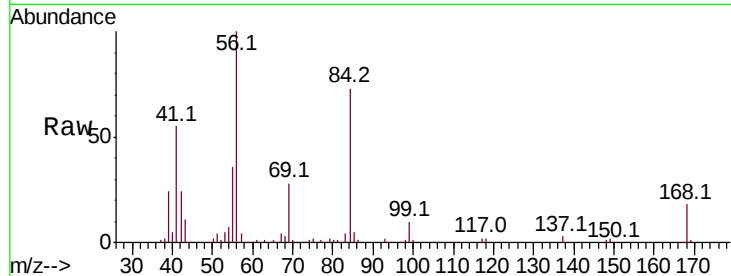
#31  
Cyclohexane  
Concen: 122.663 ug/l  
RT: 5.00 min Scan# 1189  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 28.4  | 24.0  | 36.0  |
| 84      | 72.3  | 59.7  | 89.5  |

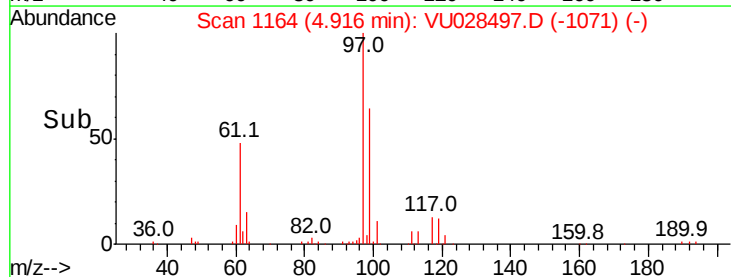
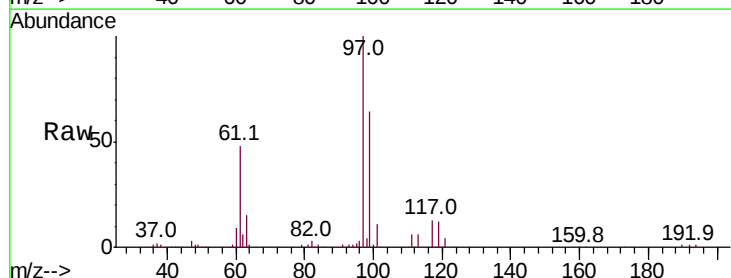
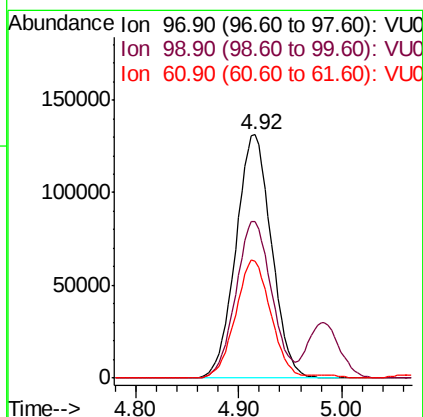
Manual Integrations  
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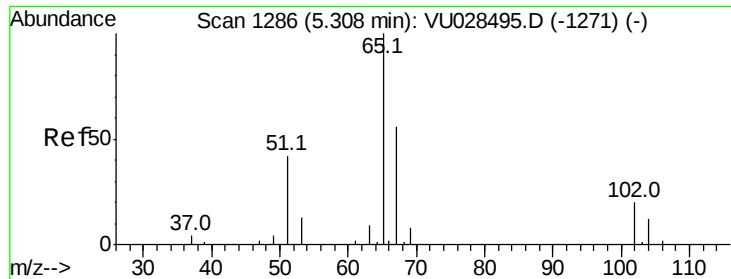
MMDadoda  
12/7/2018 10:35:06 AM



#32  
1,1,1-Trichloroethane  
Concen: 148.074 ug/l  
RT: 4.92 min Scan# 1164  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.8  | 52.3  | 78.5  |
| 61      | 48.1  | 39.0  | 58.6  |





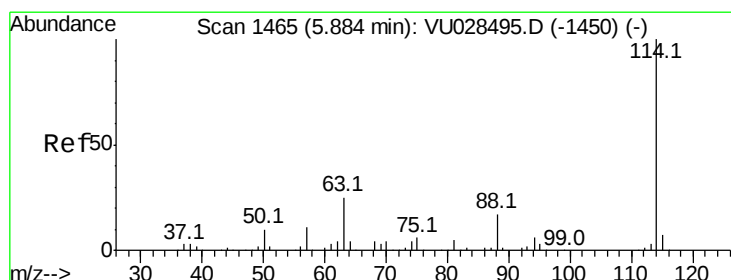
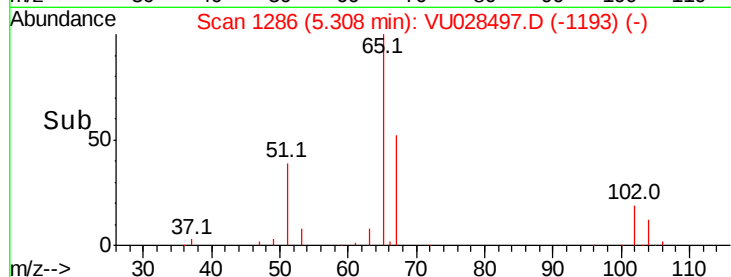
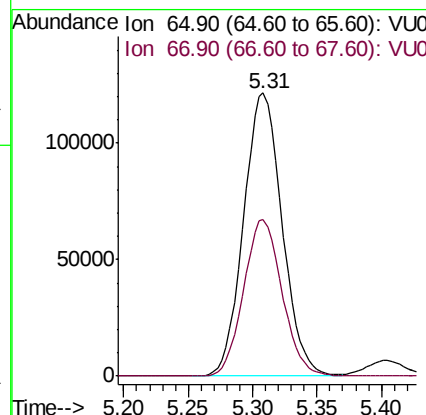
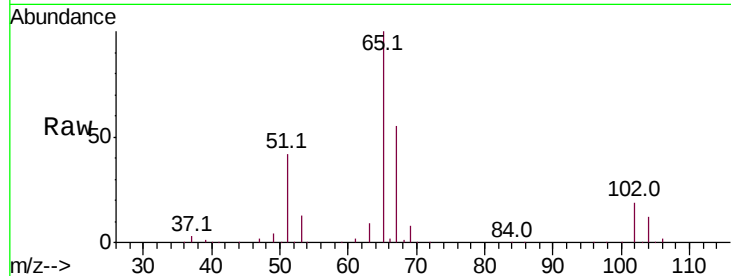
#33  
 1,2-Dichloroethane-d4  
 Concen: 151.506 ug/l  
 RT: 5.31 min Scan# 1286  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 253447 |       |       |
| 67      | 55.2  | 0.0    | 110.6 |       |

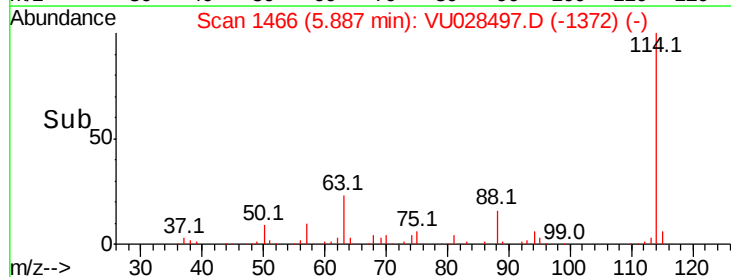
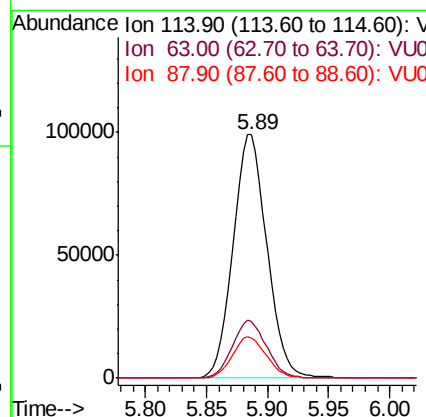
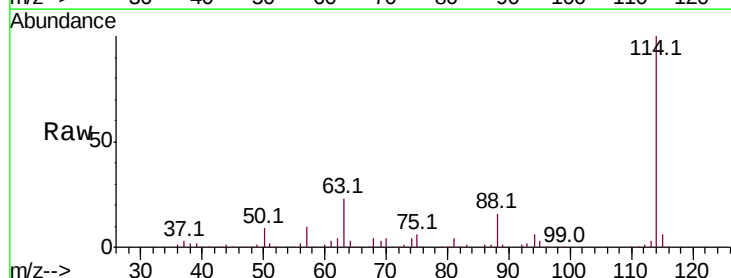
Manual Integrations  
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 12/7/2018 10:35:06 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. 0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 191700 |       |       |
| 63      | 23.2  | 0.0    | 49.2  |       |
| 88      | 16.4  | 0.0    | 33.4  |       |





#35

Dibromofluoromethane

Concen: 155.778 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

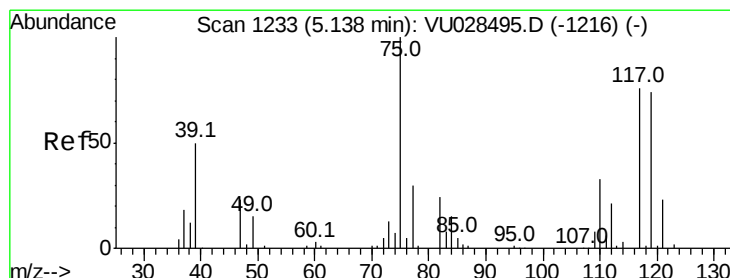
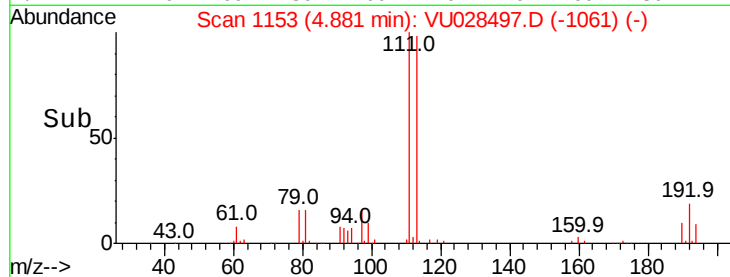
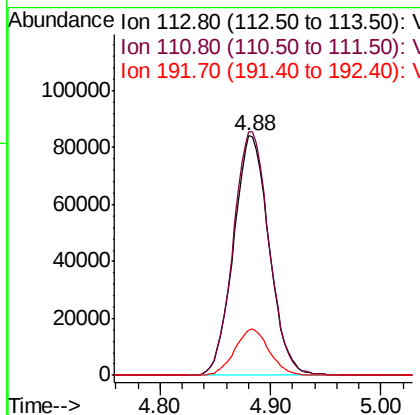
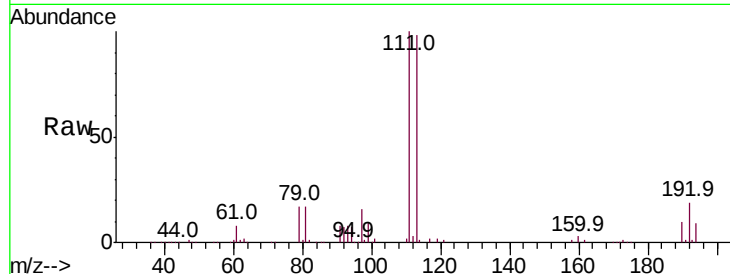
ClientSampleId :

VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 187928 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.6 | 83.4  | 125.0  |
| 192       | 18.8  | 14.8  | 22.2   |

Manual Integrations  
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MMDadoda  
12/7/2018 10:35:06 AM



#36

1,1-Dichloropropene

Concen: 148.493 ug/l

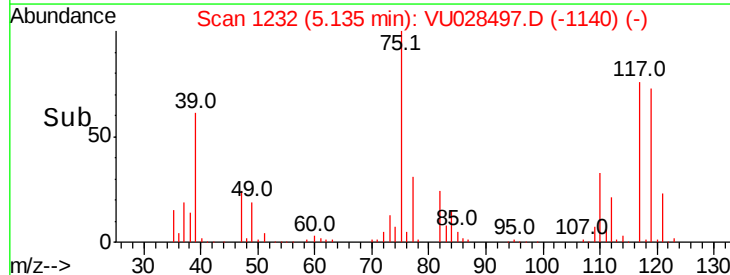
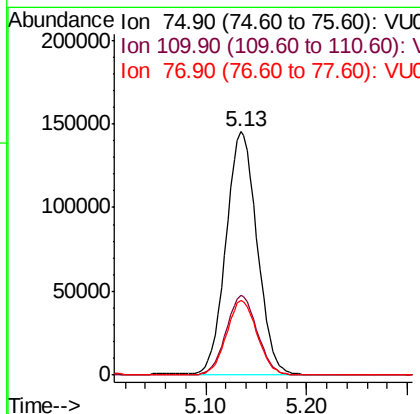
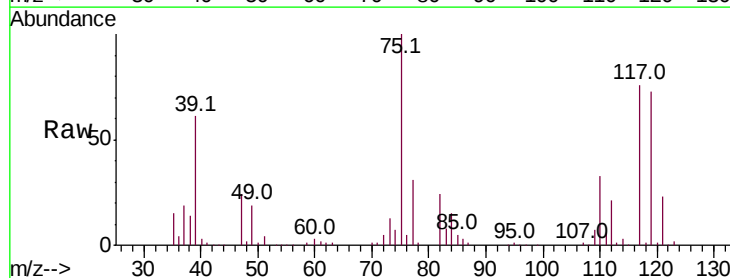
RT: 5.13 min Scan# 1232

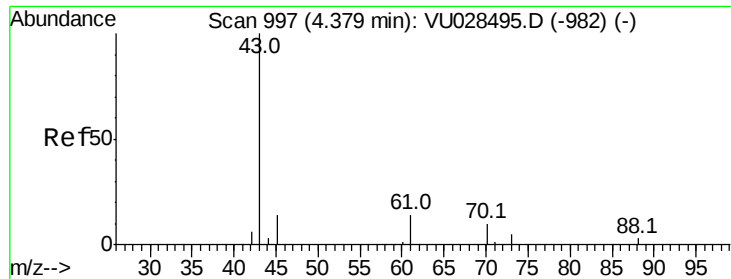
Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 311501 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 32.7  | 16.1  | 48.2   |
| 77        | 30.5  | 24.5  | 36.7   |





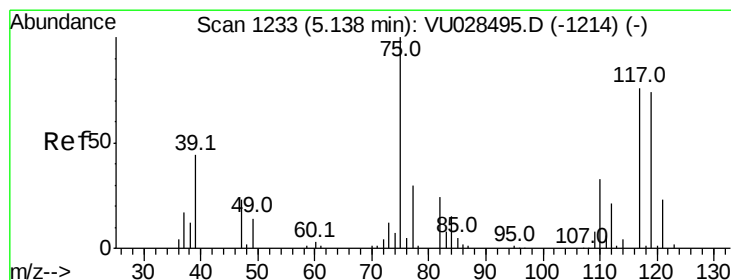
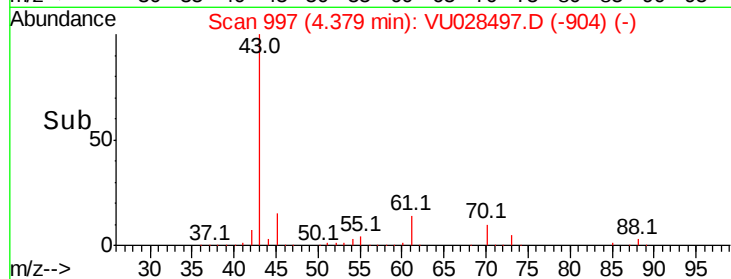
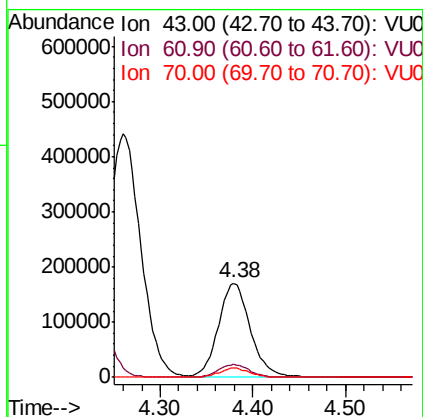
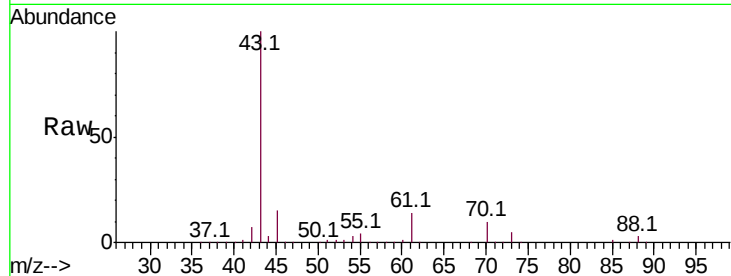
#37  
Ethyl Acetate  
Concen: 149.207 ug/l  
RT: 4.38 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampled :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 13.5  | 11.0  | 16.4  |
| 70      | 9.4   | 7.4   | 11.0  |

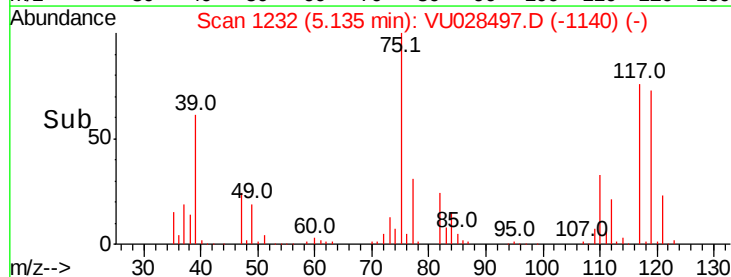
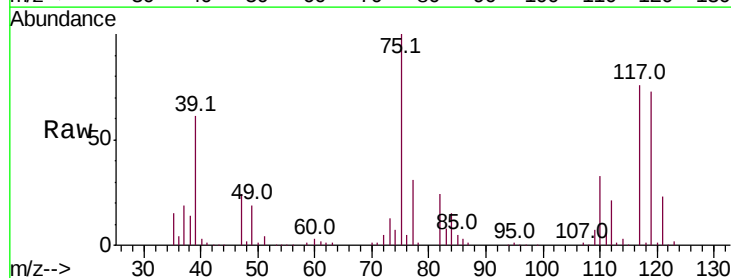
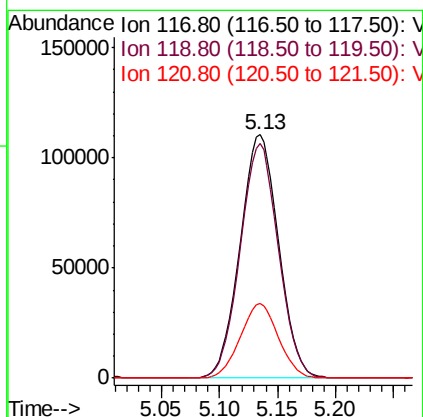
Manual Integrations  
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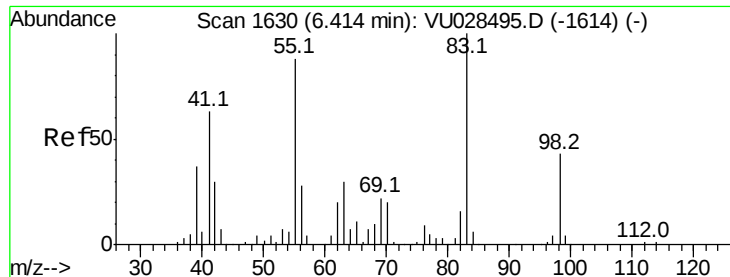
MMDadoda  
12/7/2018 10:35:06 AM



#38  
Carbon Tetrachloride  
Concen: 150.957 ug/l  
RT: 5.13 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.3  | 77.6  | 116.4 |
| 121     | 30.7  | 24.6  | 36.8  |





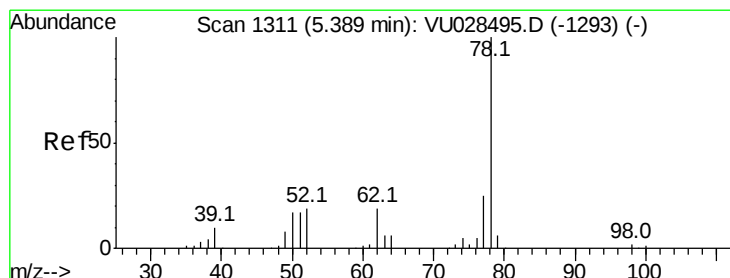
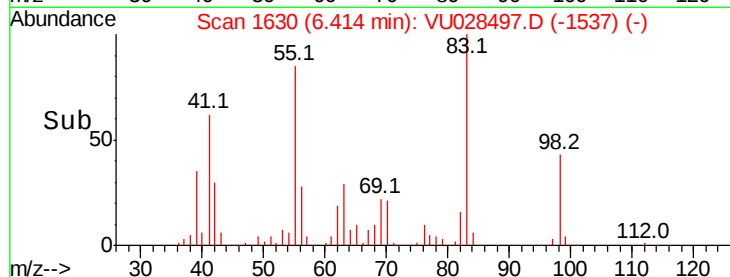
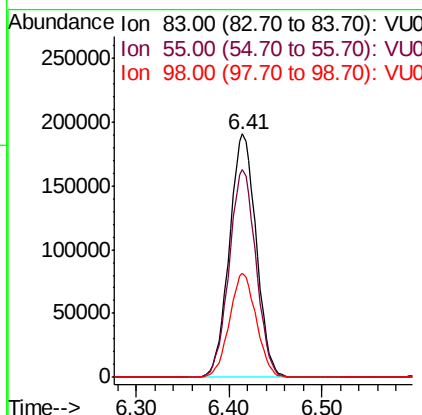
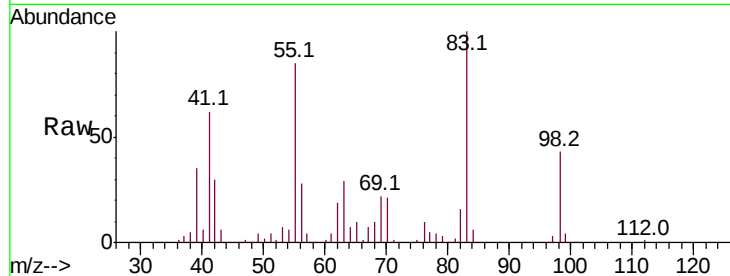
#39  
Methvlcvclohexane  
Concen: 149.147 ug/l  
RT: 6.41 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 85.3  | 70.2  | 105.2 |
| 98      | 43.0  | 34.2  | 51.4  |

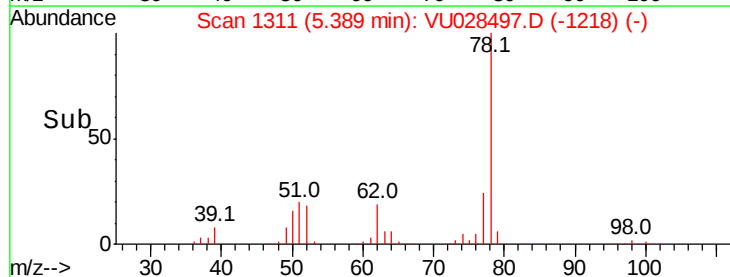
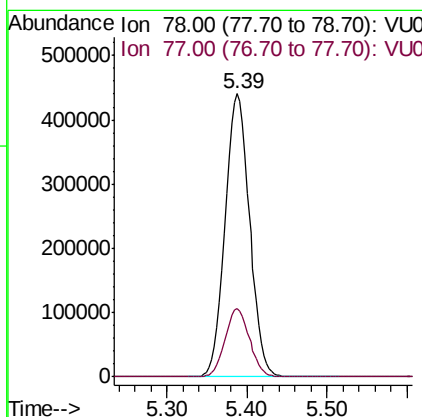
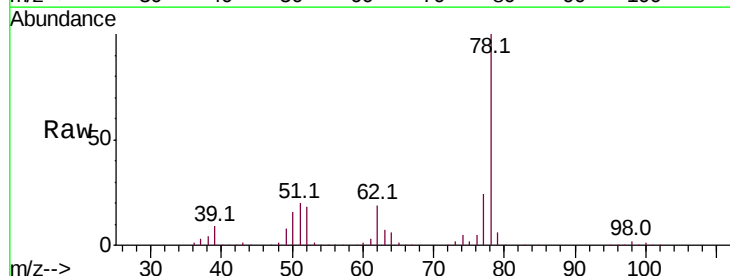
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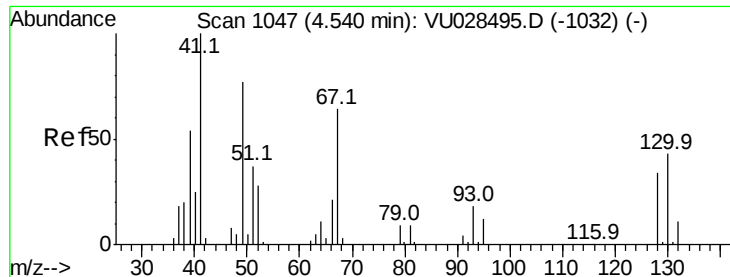
MMDadoda  
12/7/2018 10:35:06 AM



#40  
Benzene  
Concen: 149.224 ug/l  
RT: 5.39 min Scan# 1311  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.3  | 19.9  | 29.9  |





#41

Methacrylonitrile

Concen: 155.665 ug/l

RT: 4.54 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 41 Resp: 231176

Ion Ratio Lower Upper

41 100

39 52.4 43.3 64.9

67 65.1 53.6 80.4

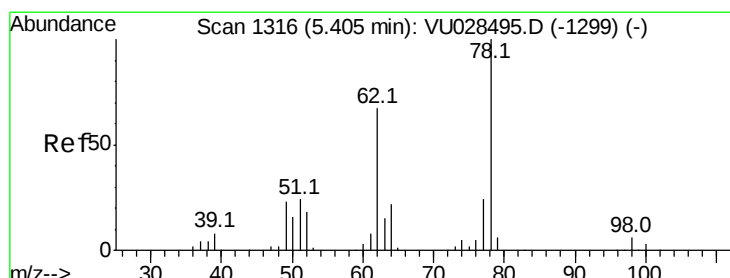
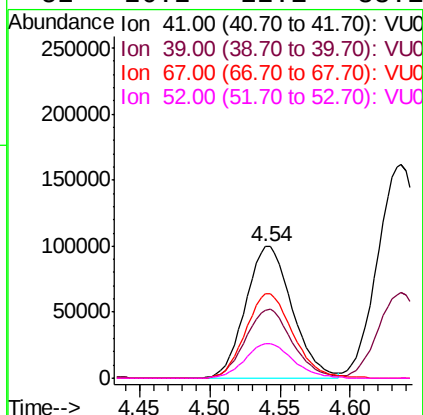
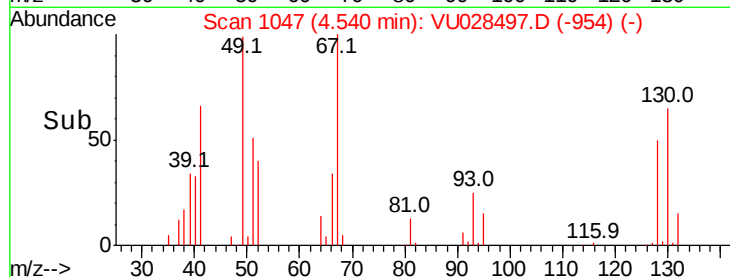
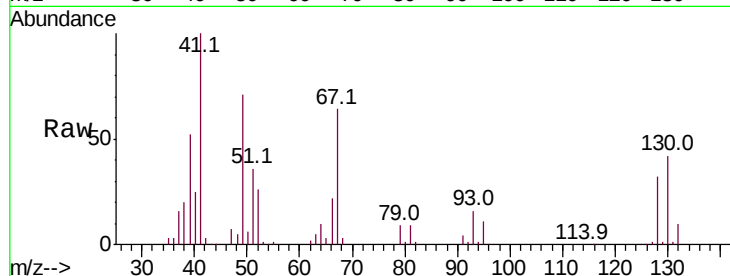
52 26.2 22.1 33.1

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#42

1,2-Dichloroethane

Concen: 147.551 ug/l

RT: 5.40 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU028497.D

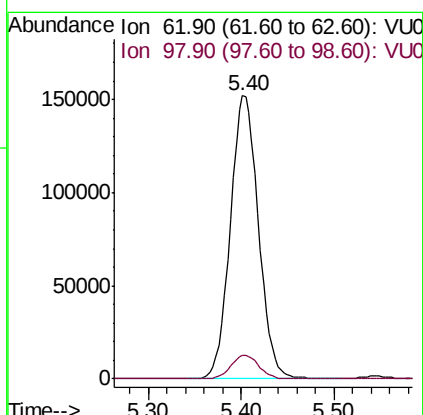
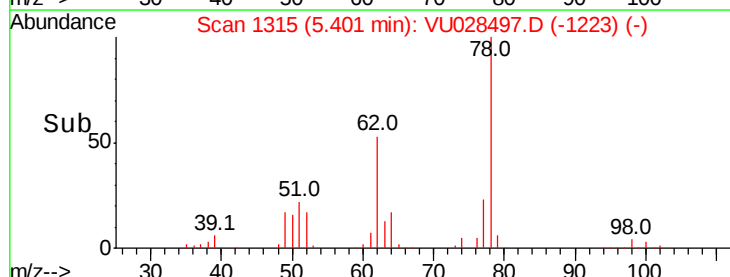
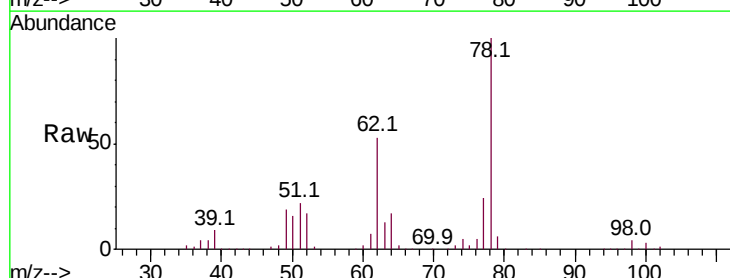
Acq: 06 Dec 2018 13:19

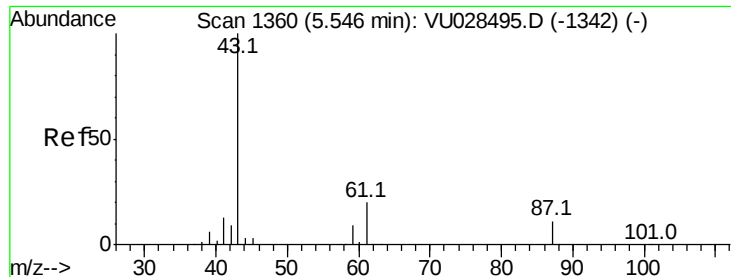
Tgt Ion: 62 Resp: 319099

Ion Ratio Lower Upper

62 100

98 8.3 0.0 17.2





#43

Isopropyl Acetate

Concen: 152.924 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

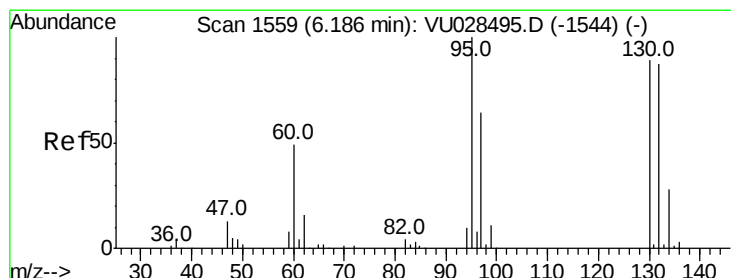
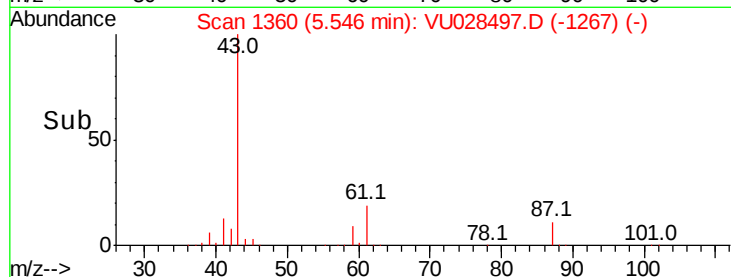
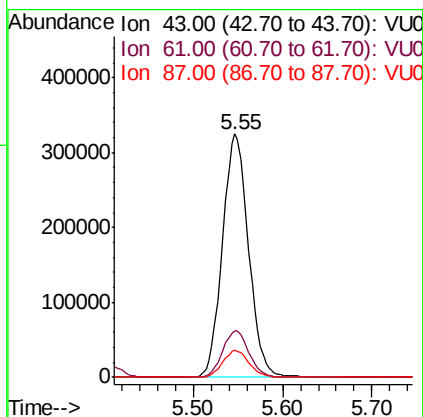
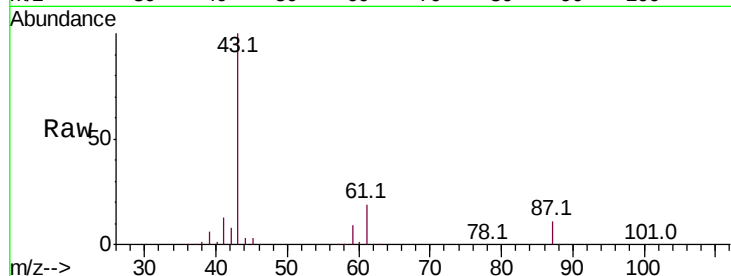
ClientSampleId :

VSTDIC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 655922 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 61       | 19.3  | 15.5  | 23.3   |
| 87       | 11.1  | 8.7   | 13.1   |

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#44

Trichloroethene

Concen: 150.162 ug/l

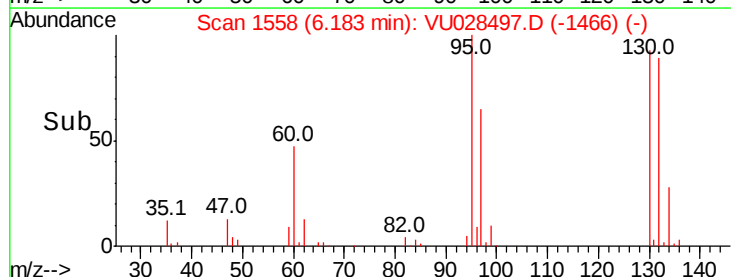
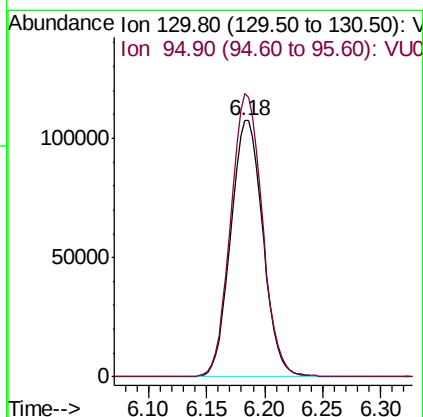
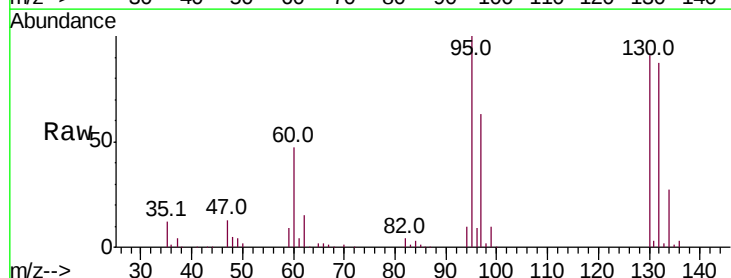
RT: 6.18 min Scan# 1558

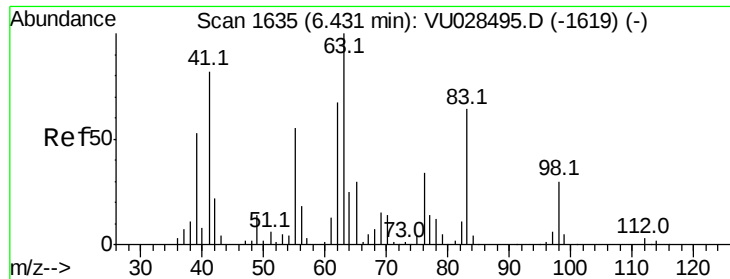
Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 206284 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 110.4 | 0.0   | 224.0  |





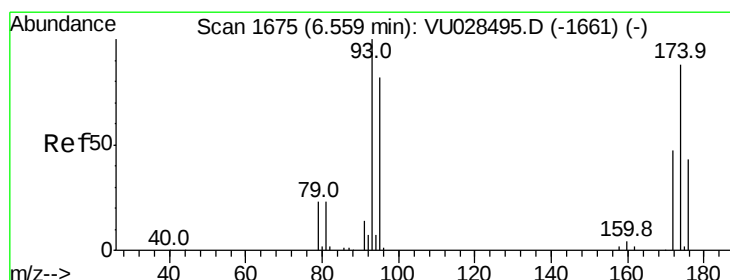
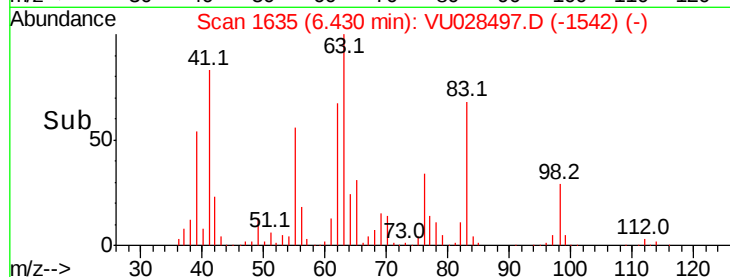
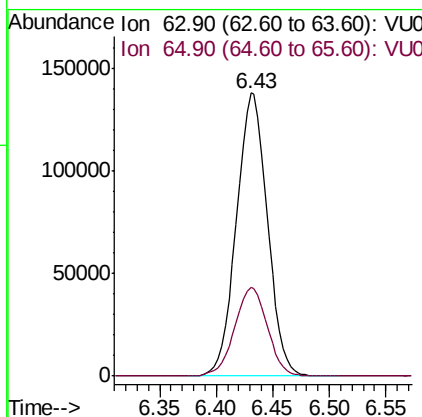
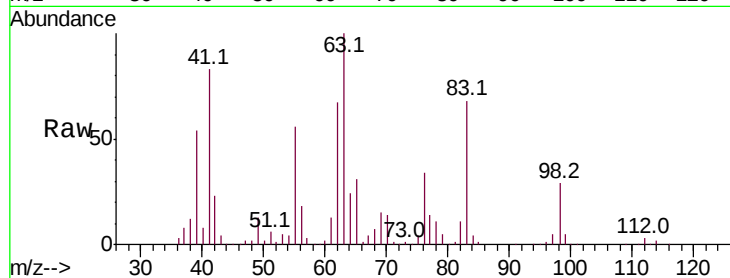
#45  
 1,2-Dichloropropane  
 Concen: 152.177 ug/l  
 RT: 6.43 min Scan# 1635  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

Tot Ion: 63 Resp: 264392  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 24.2 36.4

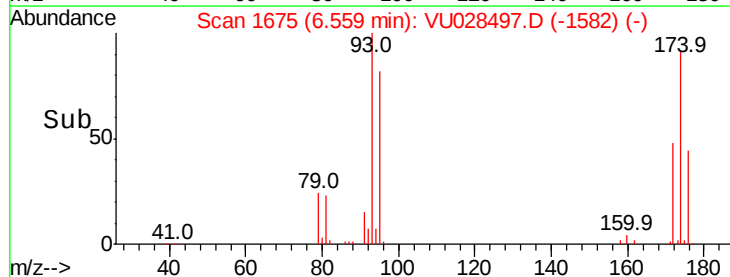
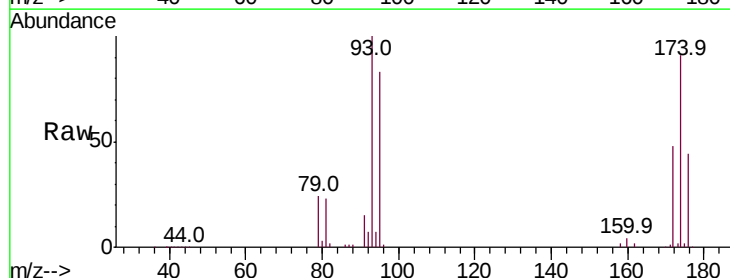
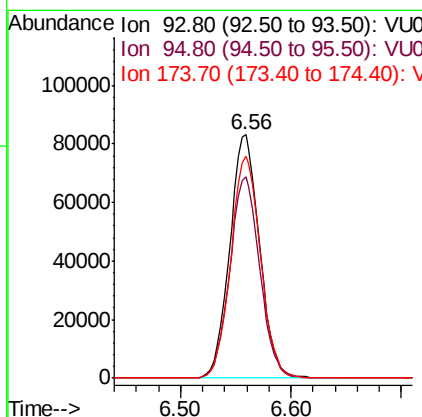
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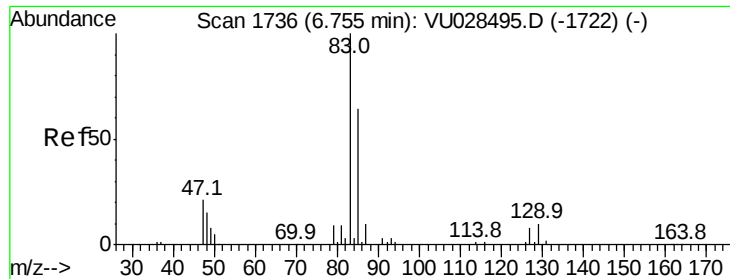
MMDadoda  
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#46  
 Dibromomethane  
 Concen: 150.712 ug/l  
 RT: 6.56 min Scan# 1675  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Tgt Ion: 93 Resp: 155361  
 Ion Ratio Lower Upper  
 93 100  
 95 83.2 65.4 98.2  
 174 91.2 72.2 108.4





#47

Bromodichloromethane

Concen: 151.275 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

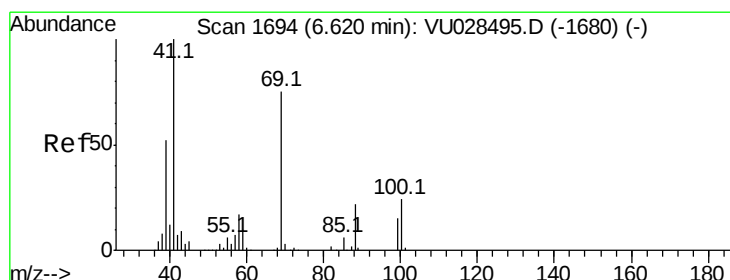
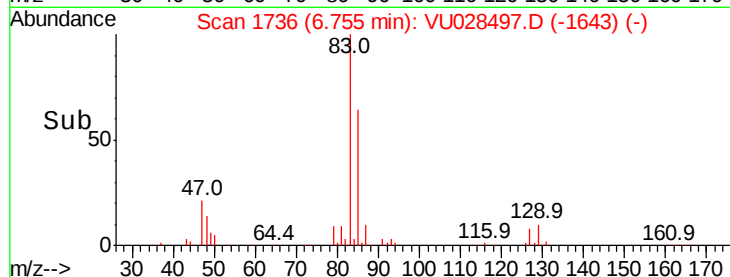
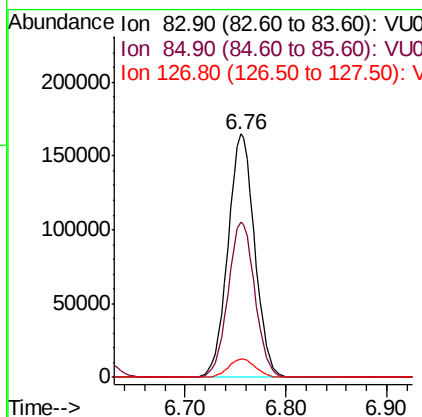
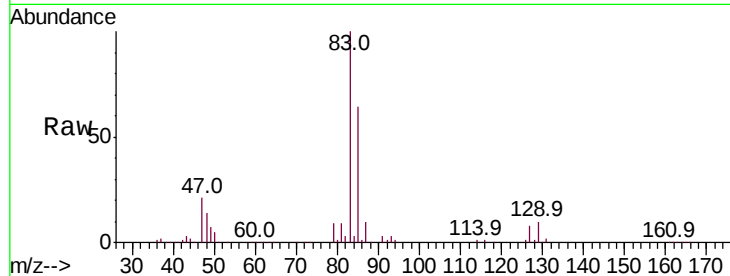
ClientSampleId :

VSTDIC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 83    | Resp: | 303454 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 63.6  | 51.5  | 77.3   |
| 127      | 7.7   | 6.2   | 9.4    |

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#48

Methyl methacrylate

Concen: 156.271 ug/l

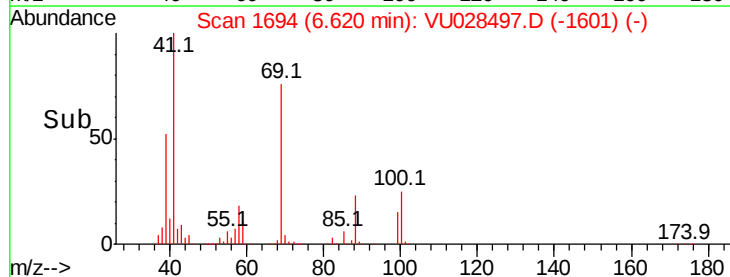
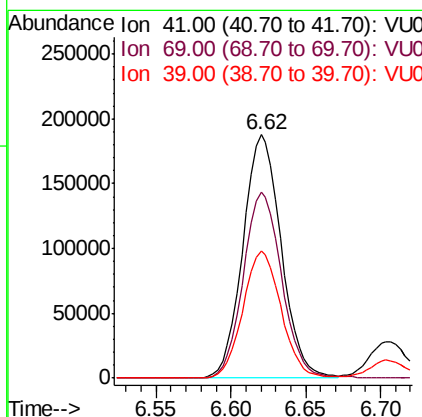
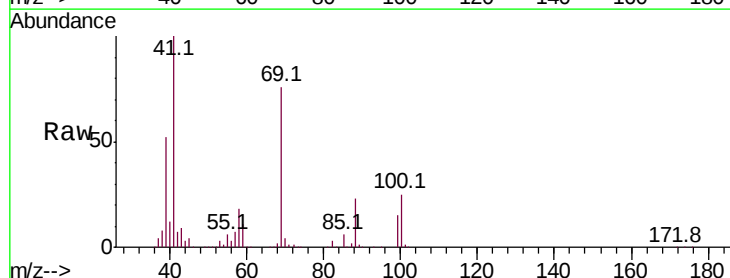
RT: 6.62 min Scan# 1694

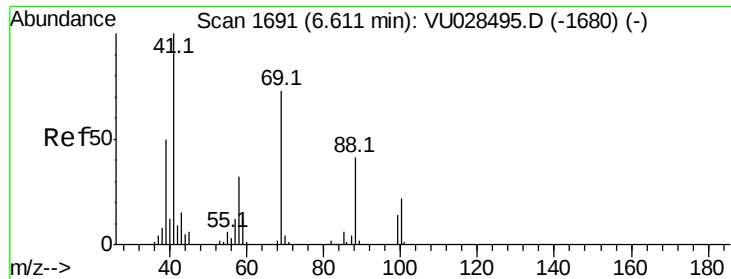
Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 333330 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 77.2  | 60.4  | 90.6   |
| 39       | 52.3  | 41.1  | 61.7   |





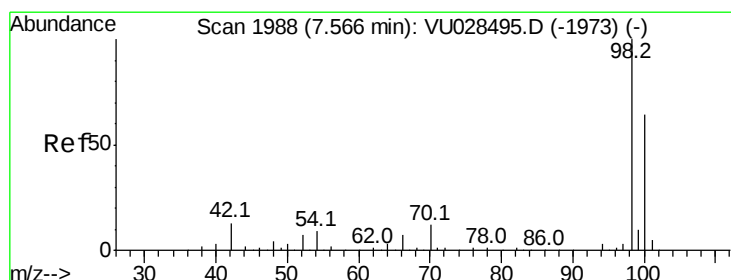
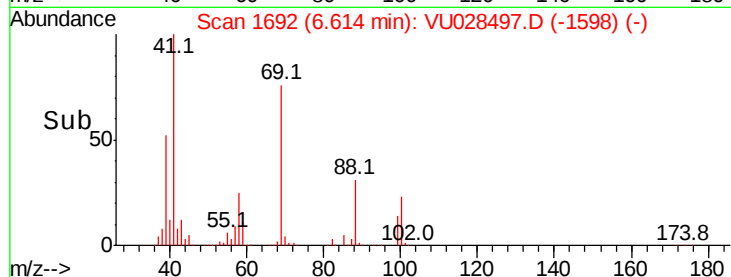
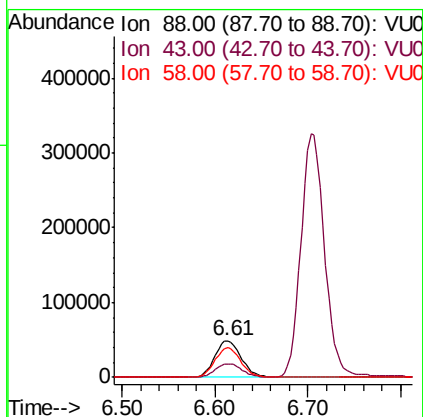
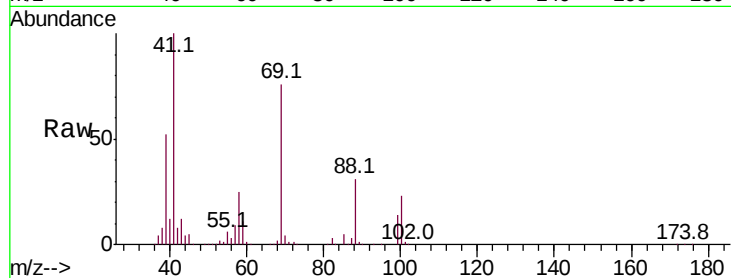
#49  
1,4-Dioxane  
Concen: 2856.842 ug/l  
RT: 6.61 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 36.8  | 30.9  | 46.3  |
| 58      | 80.4  | 62.4  | 93.6  |

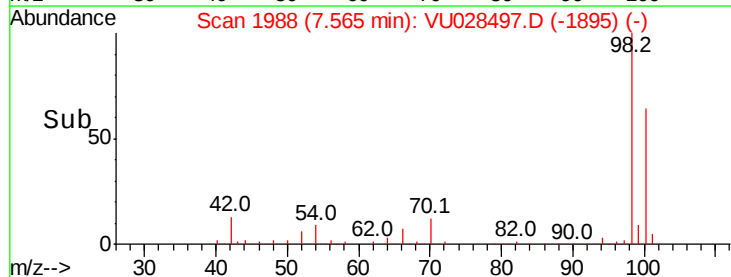
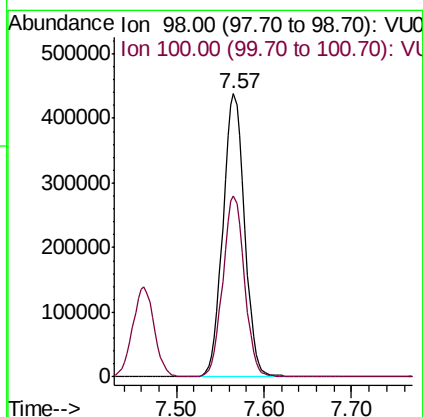
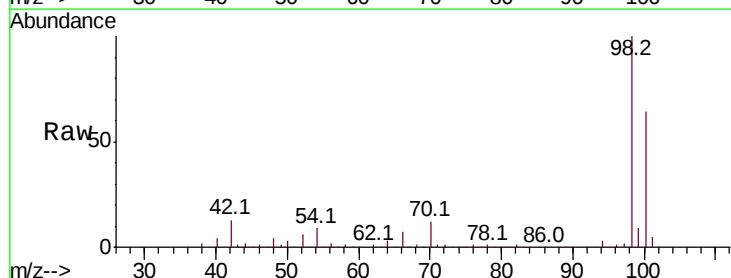
Manual Integrations  
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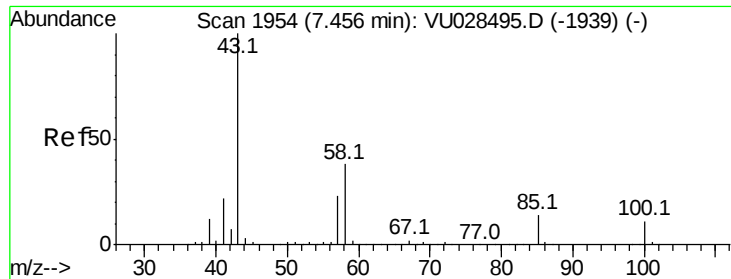
MMDadoda  
12/7/2018 10:35:06 AM



#50  
Toluene-d8  
Concen: 157.905 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.5  | 51.0  | 76.6  |





#51

4-Methyl-2-Pentanone

Concen: 768.722 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.01 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 2079582

Ion Ratio Lower Upper

43 100

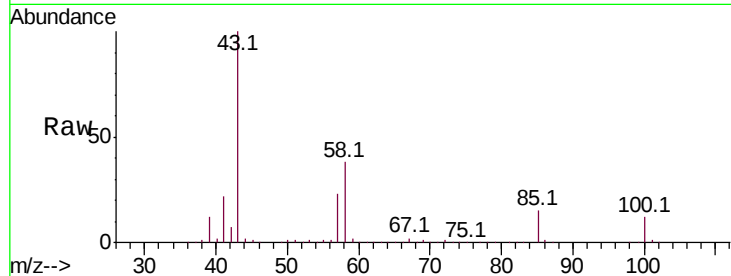
58 37.5 30.2 45.2

Manual Integrations

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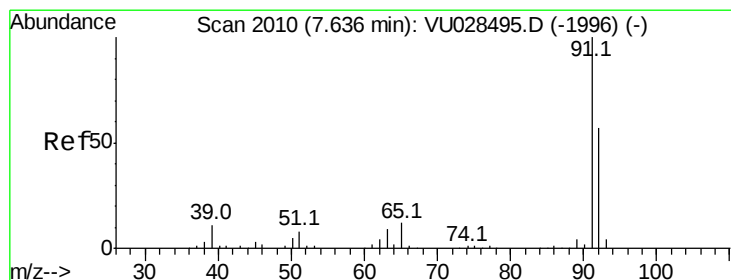
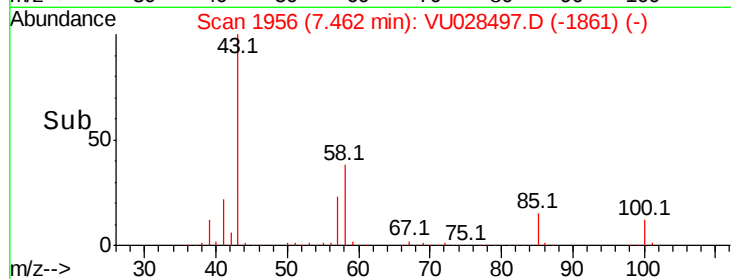
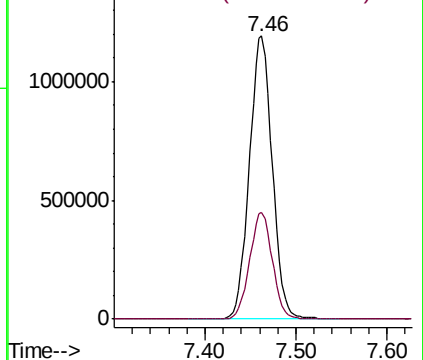
MMDadoda

12/7/2018 10:35:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 151.664 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028497.D

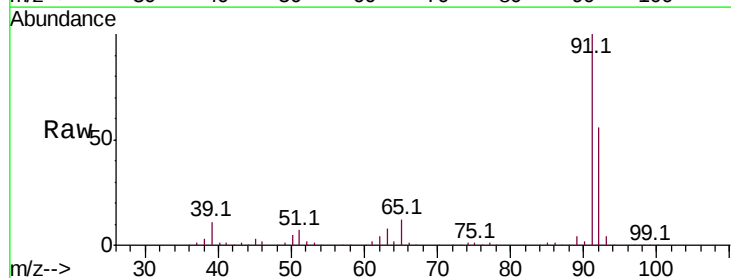
Acq: 06 Dec 2018 13:19

Tgt Ion: 92 Resp: 551461

Ion Ratio Lower Upper

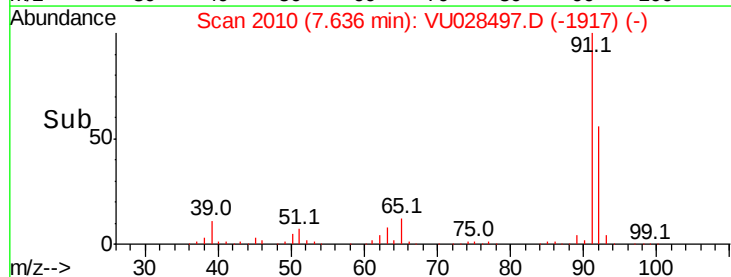
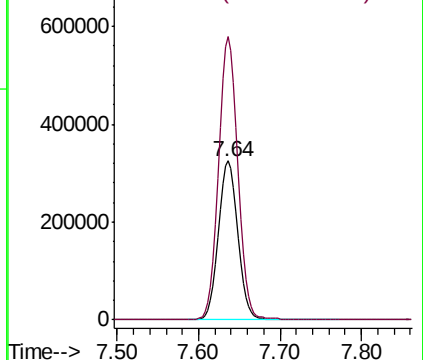
92 100

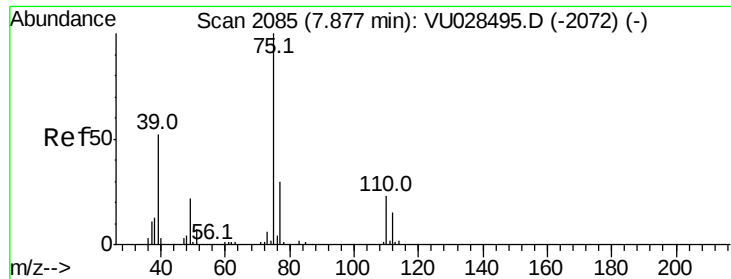
91 176.6 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





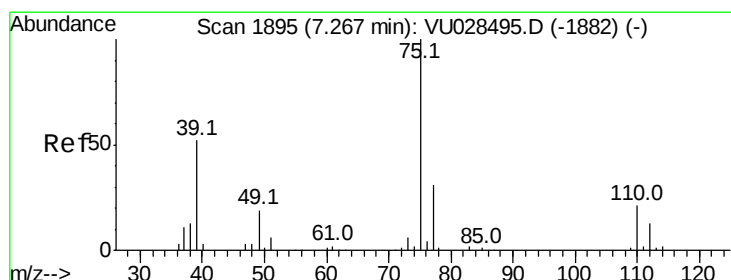
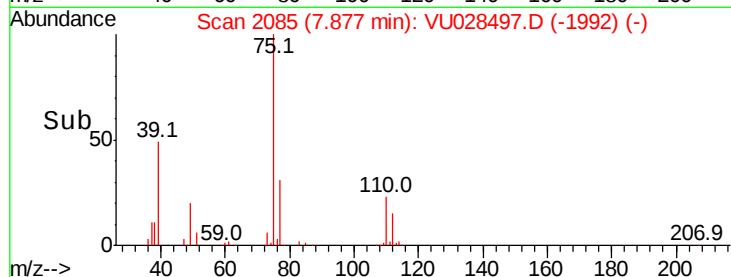
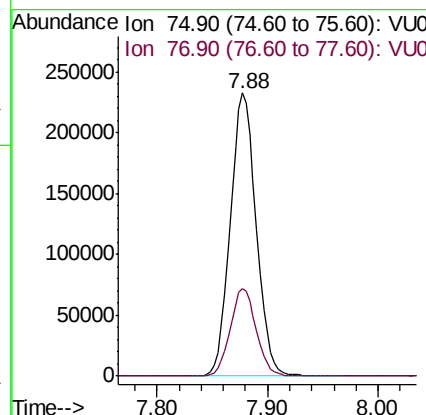
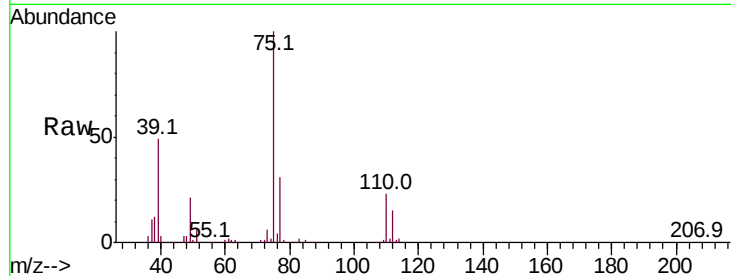
#53  
t-1,3-Dichloropropene  
Concen: 158.259 ug/l  
RT: 7.88 min Scan# 2085  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICC150

Tot Ion: 75 Resp: 378092  
Ion Ratio Lower Upper  
75 100  
77 31.1 24.2 36.4

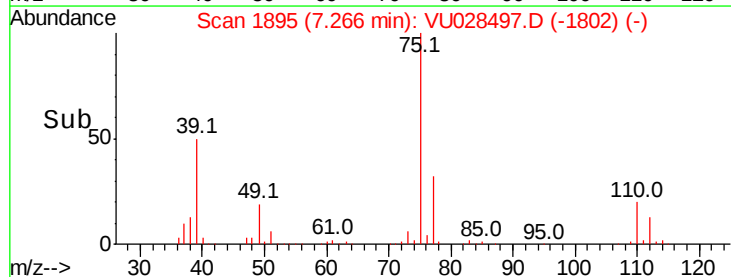
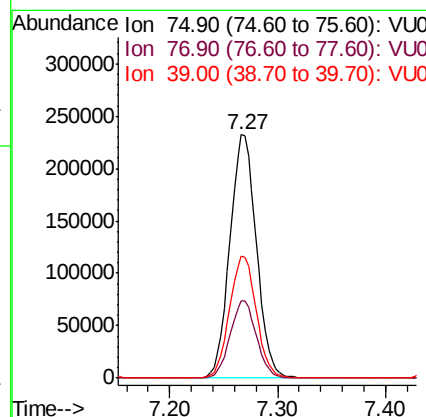
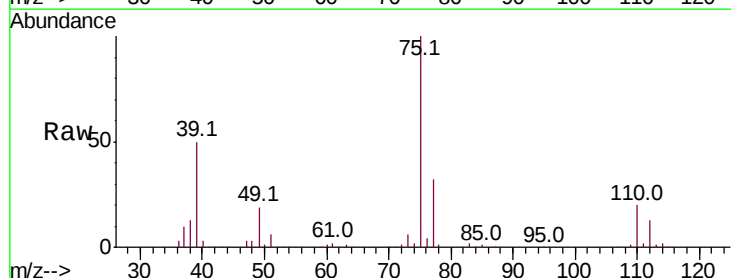
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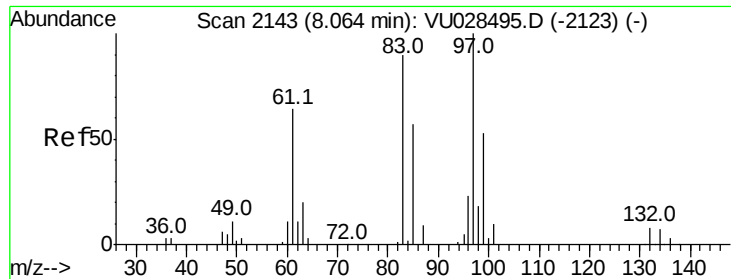
MMDadoda  
12/7/2018 10:35:06 AM



#54  
cis-1,3-Dichloropropene  
Concen: 153.691 ug/l  
RT: 7.27 min Scan# 1895  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Tgt Ion: 75 Resp: 398363  
Ion Ratio Lower Upper  
75 100  
77 31.7 25.0 37.4  
39 50.1 41.3 61.9





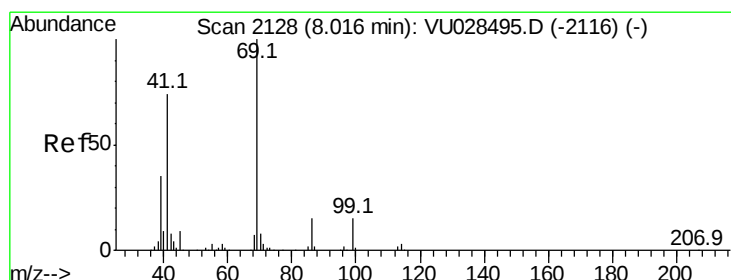
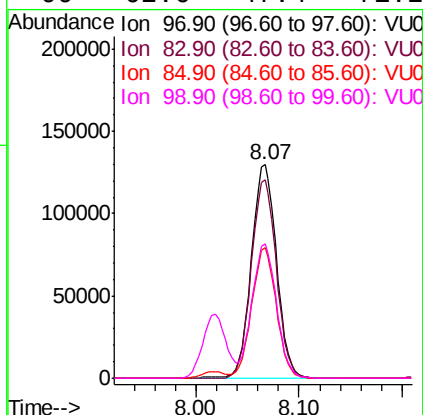
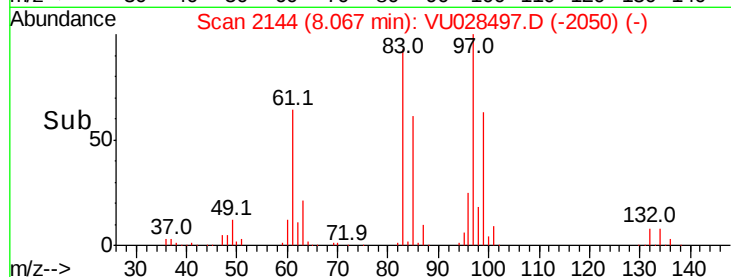
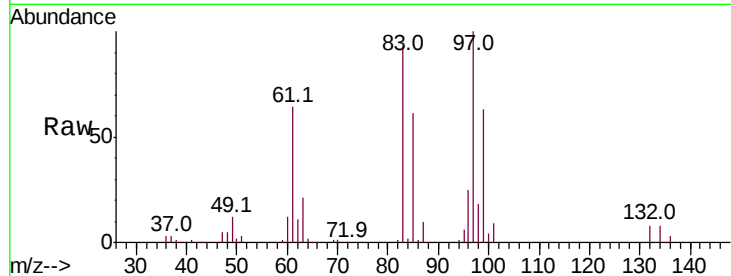
#55  
 1,1,2-Trichloroethane  
 Concen: 152.597 ug/l  
 RT: 8.07 min Scan# 2144  
 Delta R.T. 0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 93.0  | 72.4  | 108.6 |
| 85      | 61.2  | 46.0  | 69.0  |
| 99      | 62.6  | 47.4  | 71.2  |

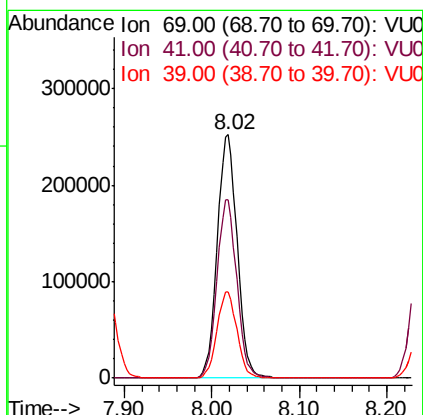
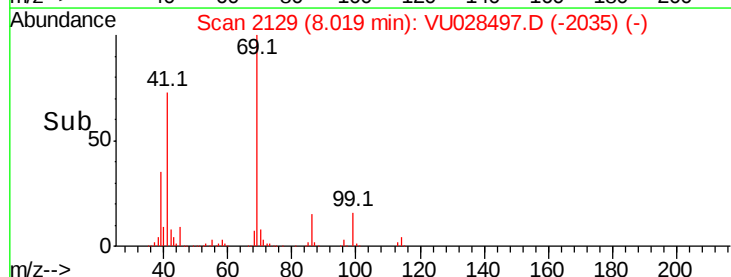
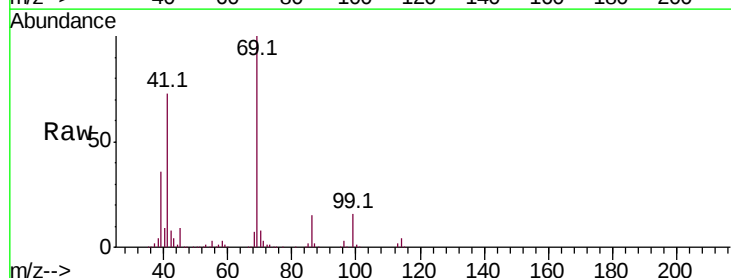
Manual Integrations  
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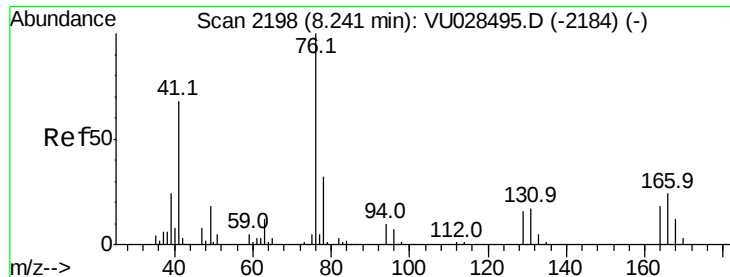
MMDadoda  
 12/7/2018 10:35:06 AM



#56  
 Ethyl methacrylate  
 Concen: 162.258 ug/l  
 RT: 8.02 min Scan# 2129  
 Delta R.T. 0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 73.0  | 59.1  | 88.7  |
| 39      | 35.4  | 28.4  | 42.6  |





#57

1,3-Dichloropropane

Concen: 150.728 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 402154

Ion Ratio Lower Upper

76 100

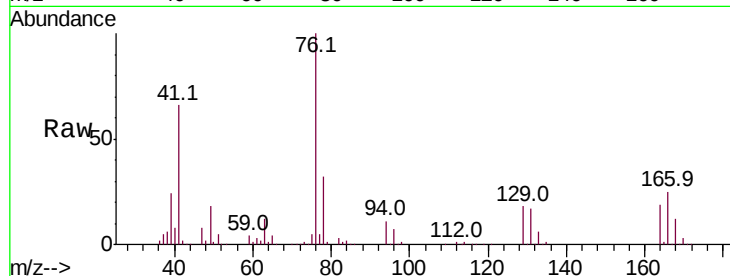
78 31.7 25.2 37.8

Manual Integrations

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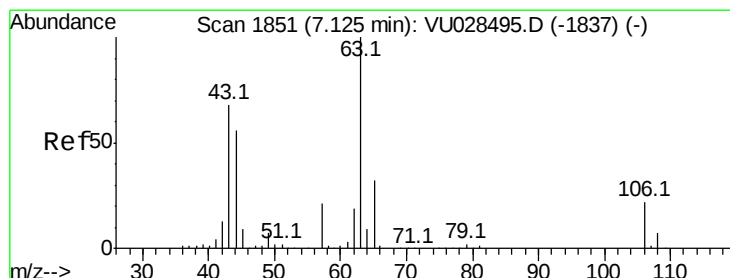
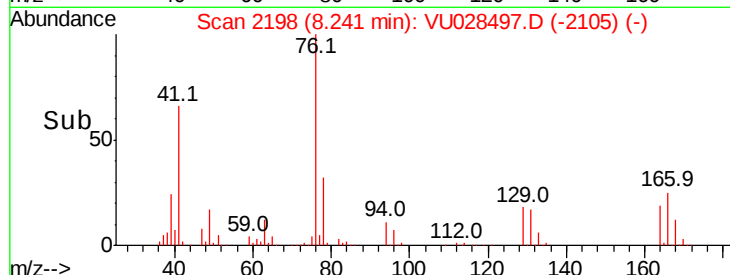
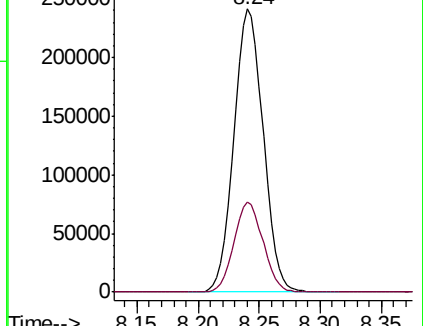
MMDadoda

12/7/2018 10:35:06 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: 811.346 ug/l

RT: 7.13 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VU028497.D

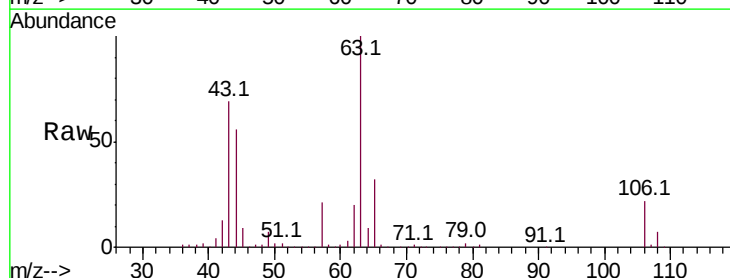
Acq: 06 Dec 2018 13:19

Tgt Ion: 63 Resp: 1022863

Ion Ratio Lower Upper

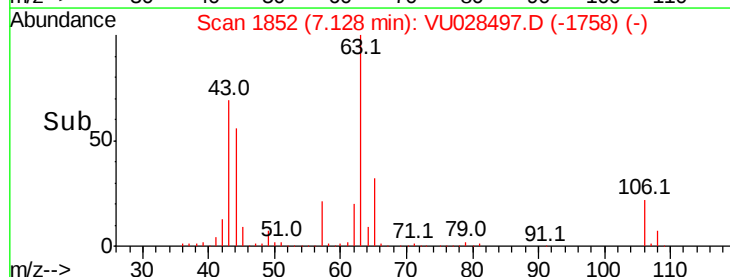
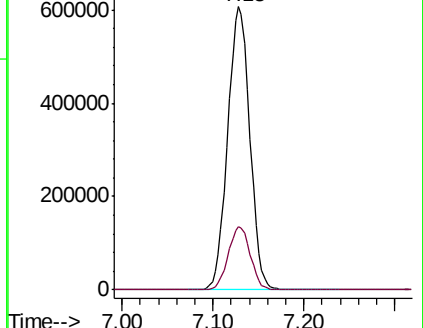
63 100

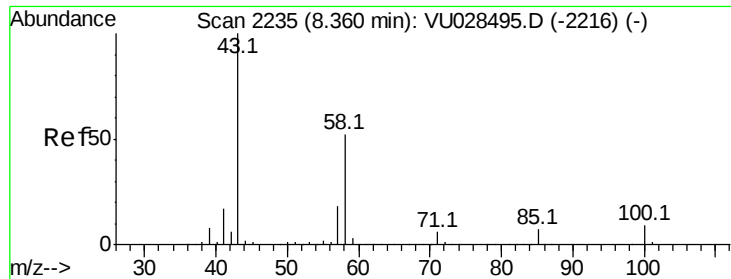
106 22.5 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





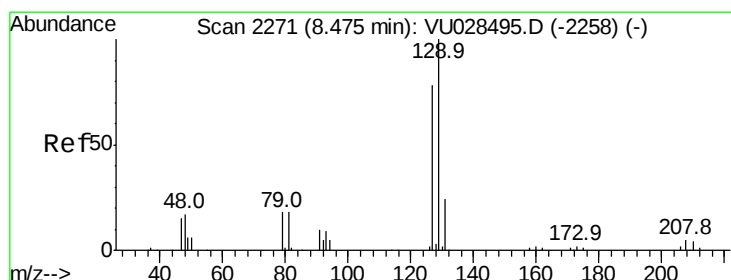
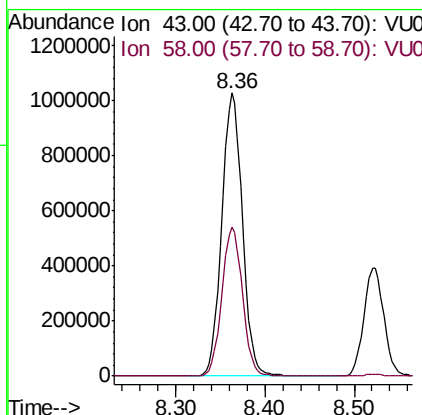
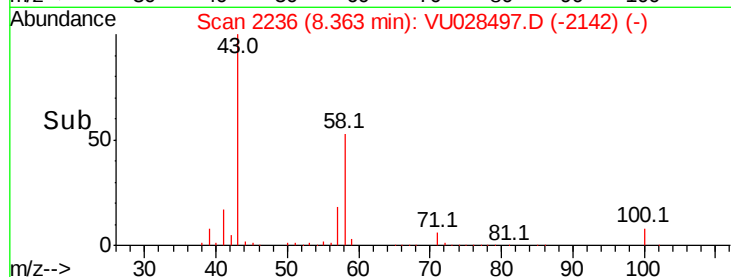
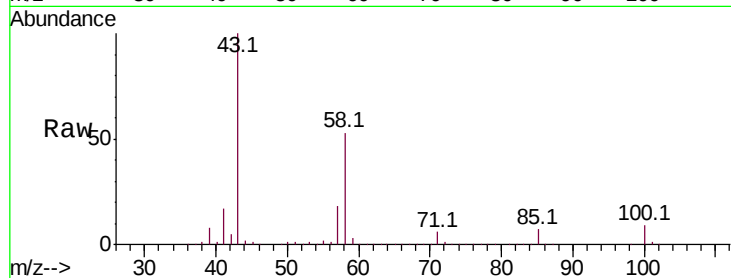
#59  
2-Hexanone  
Concen: 764.977 ug/l  
RT: 8.36 min Scan# 2236  
Delta R.T. 0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

Tot Ion: 43 Resp: 1640260  
Ion Ratio Lower Upper  
43 100  
58 52.7 25.9 77.6

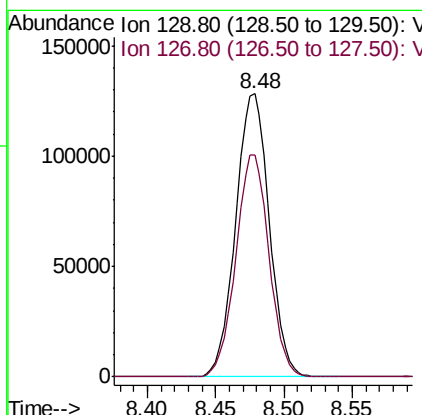
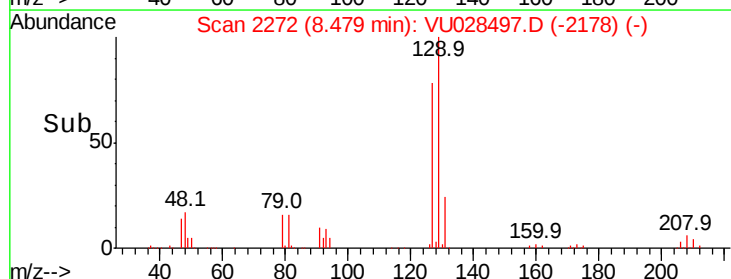
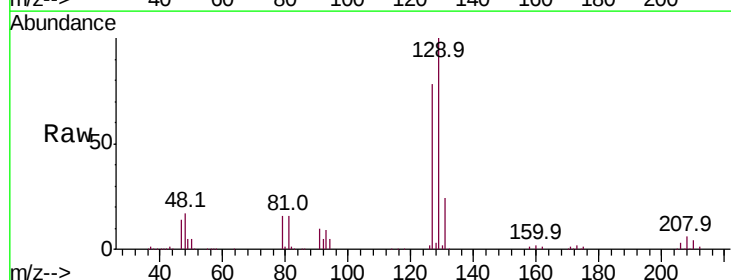
Manual Integrations  
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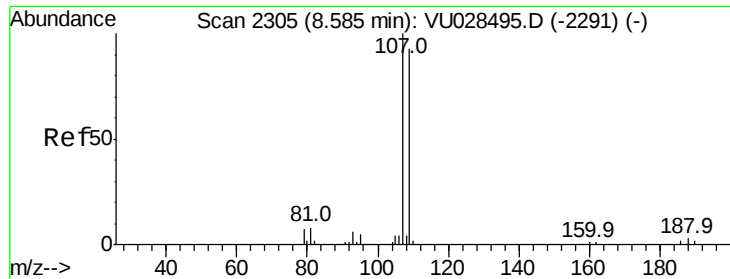
MMDadoda  
12/7/2018 10:35:06 AM



#60  
Dibromochloromethane  
Concen: 155.990 ug/l  
RT: 8.48 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Tgt Ion: 129 Resp: 219511  
Ion Ratio Lower Upper  
129 100  
127 77.4 39.1 117.3





#61

1,2-Dibromoethane

Concen: 156.700 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion:107 Resp: 236187

Ion Ratio Lower Upper

107 100

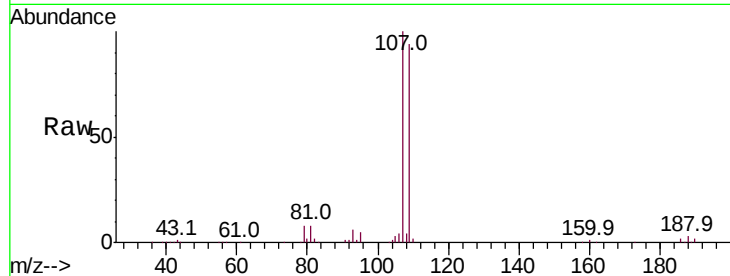
109 94.7 74.5 111.7

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

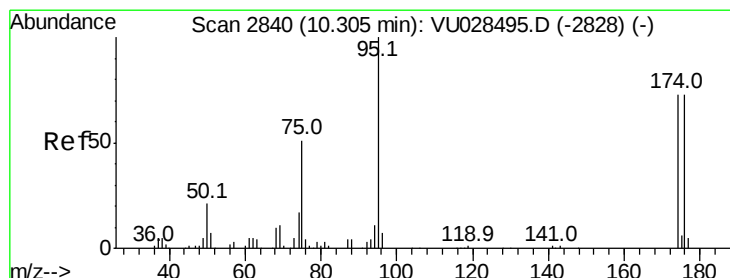
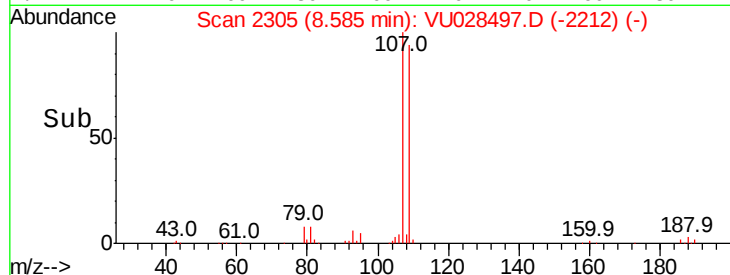
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 162.820 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

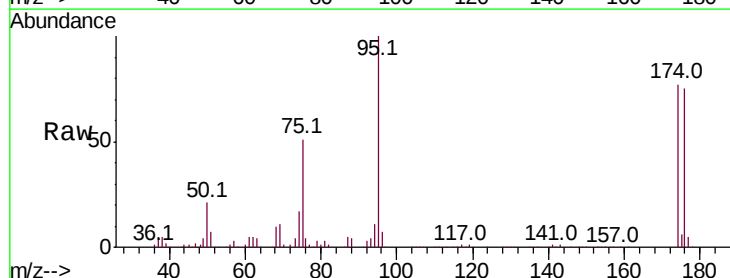
Tgt Ion: 95 Resp: 290419

Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.4

176 73.5 0.0 145.2



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

250000

200000

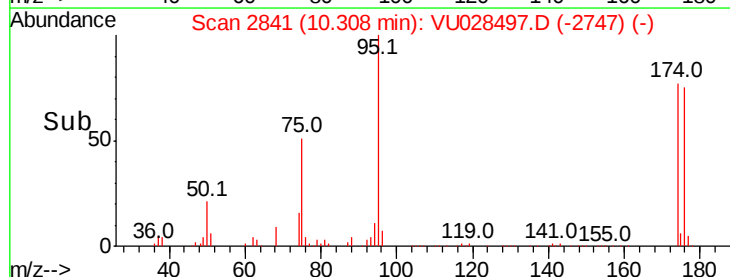
150000

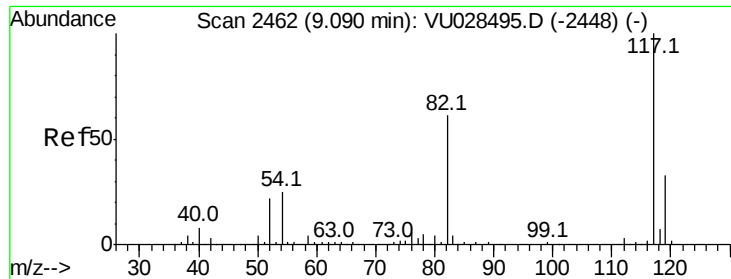
100000

50000

0

Time-->





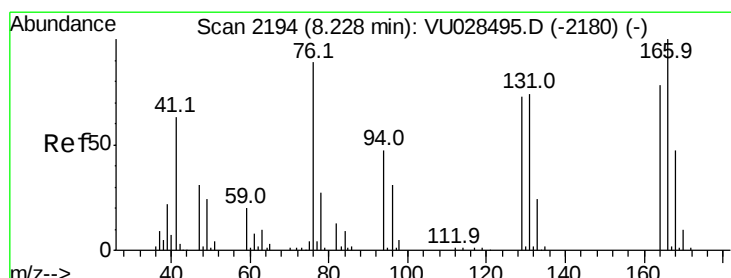
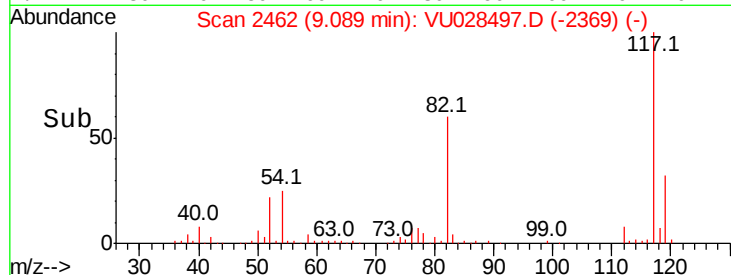
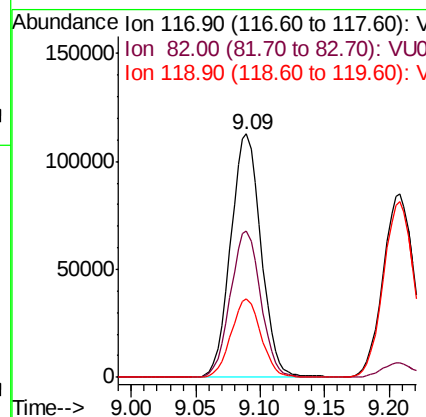
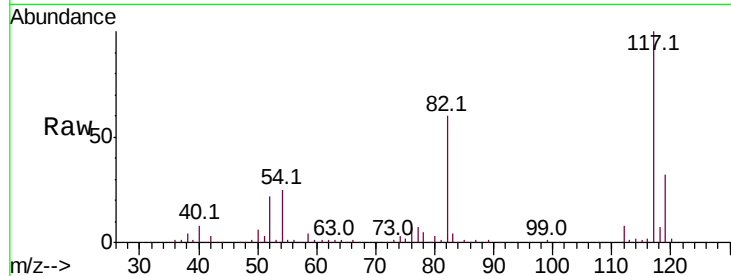
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 117   | Resp: | 184167 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 59.9  | 48.9  | 73.3   |
| 119       | 32.2  | 26.2  | 39.4   |

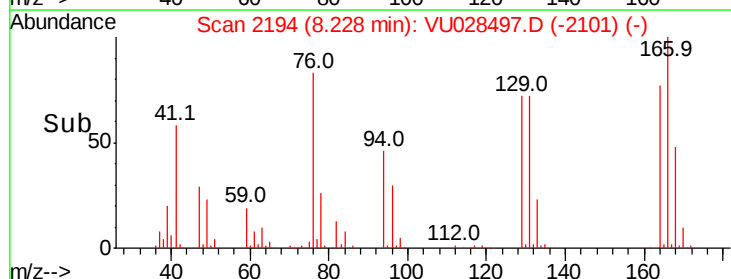
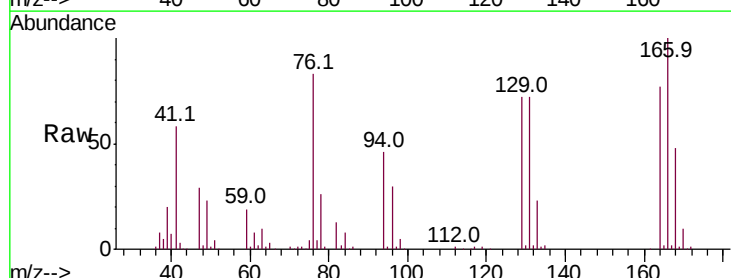
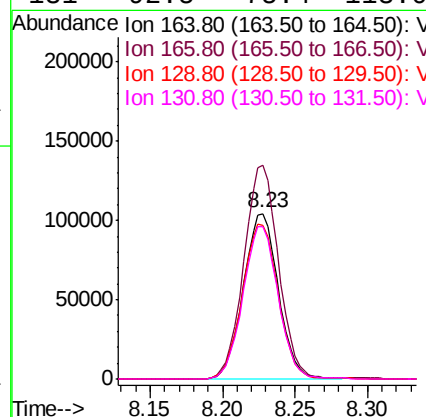
Manual Integrations  
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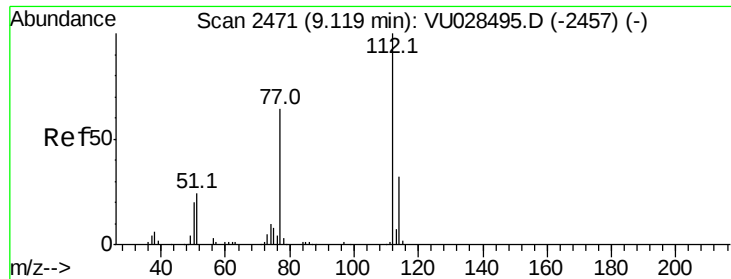
MMDadoda  
12/7/2018 10:35:06 AM



#64  
Tetrachloroethene  
Concen: 142.358 ug/l  
RT: 8.23 min Scan# 2194  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 174878 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 166       | 129.2 | 101.9 | 152.9  |
| 129       | 93.2  | 74.9  | 112.3  |
| 131       | 92.5  | 75.4  | 113.0  |





#65

Chlorobenzene

Concen: 147.944 ug/l

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion:112 Resp: 580596

Ion Ratio Lower Upper

112 100

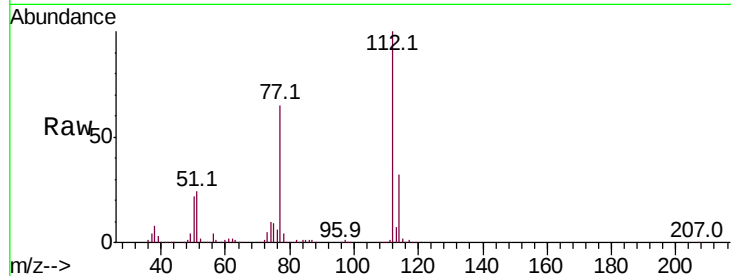
114 31.8 25.3 37.9

Manual Integrations

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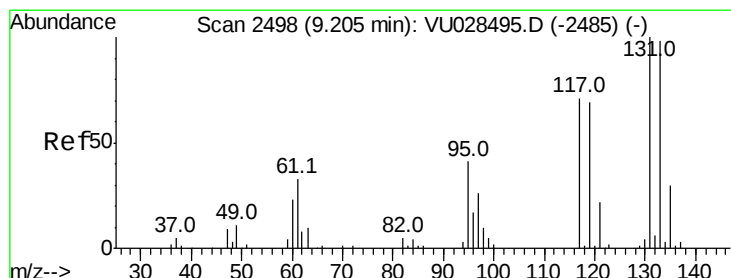
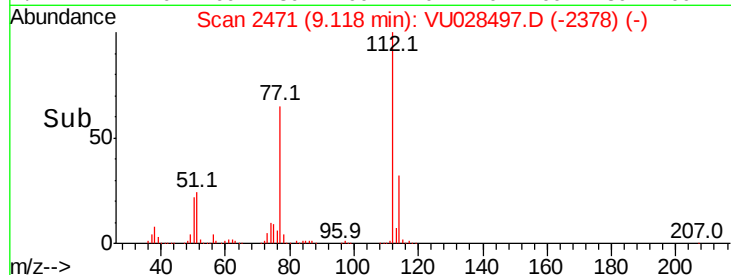
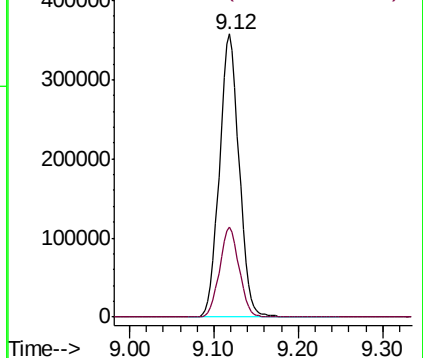
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 155.286 ug/l

RT: 9.21 min Scan# 2499

Delta R.T. 0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

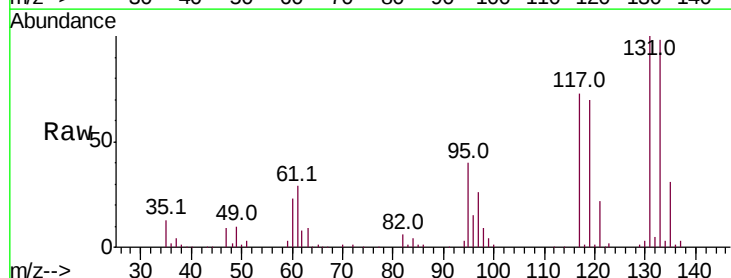
Tgt Ion:131 Resp: 194604

Ion Ratio Lower Upper

131 100

133 96.9 48.0 144.0

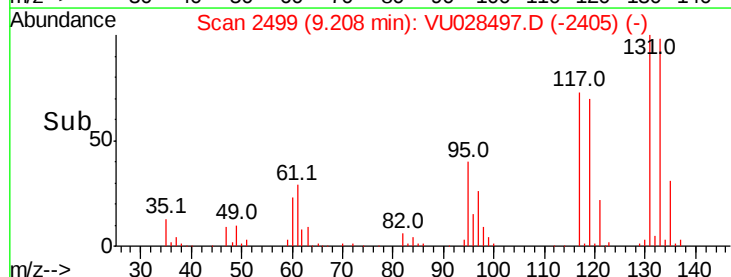
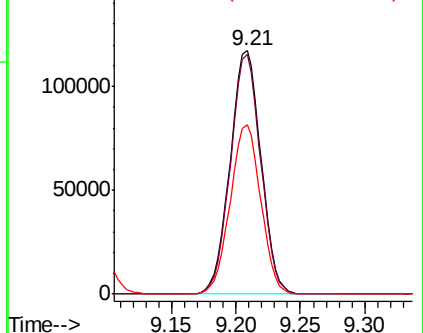
119 69.1 34.6 103.9

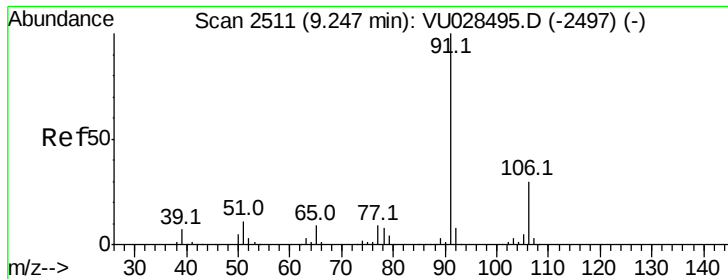


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 150.242 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 1083897

Ion Ratio Lower Upper

91 100

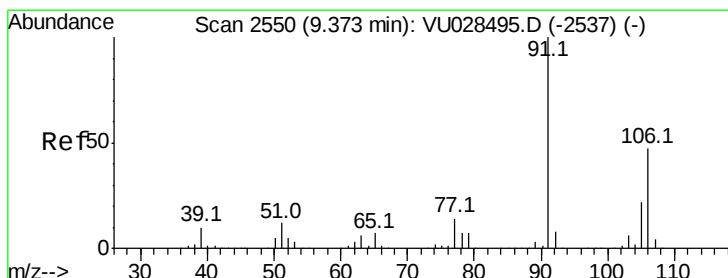
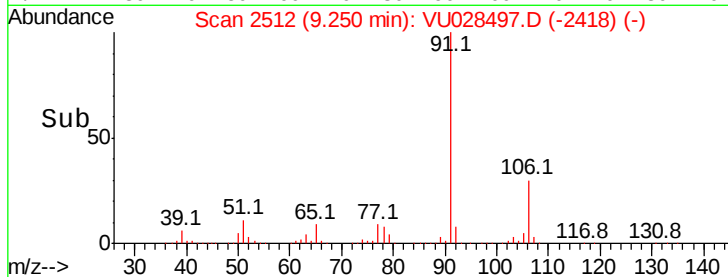
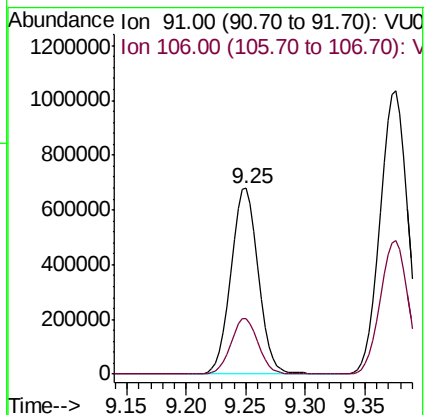
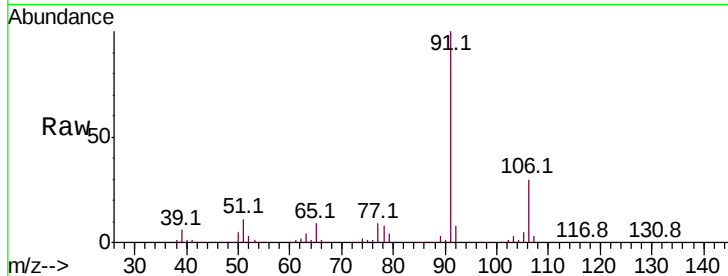
106 29.8 24.1 36.1

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#68

m/p-Xylenes

Concen: 306.361 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028497.D

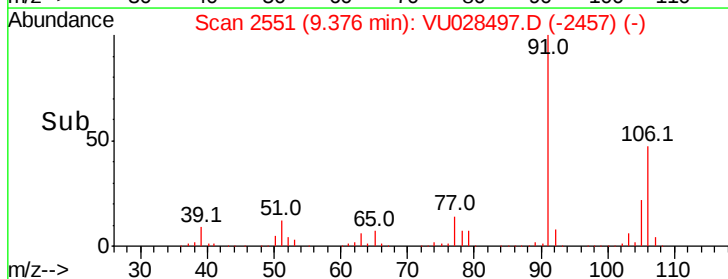
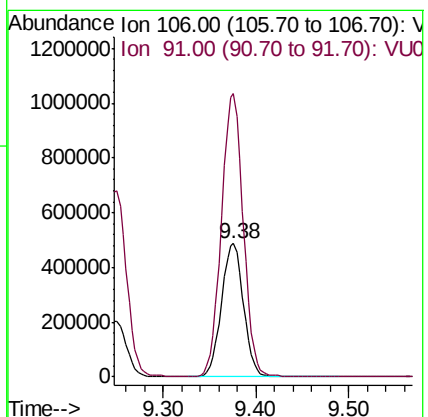
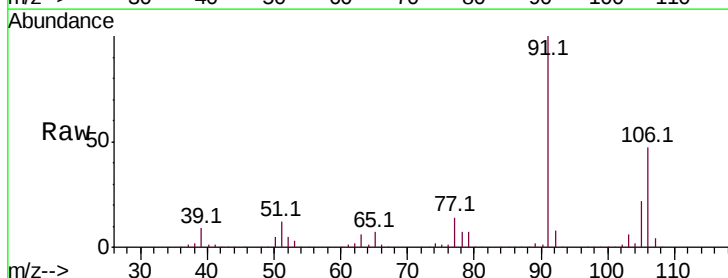
Acq: 06 Dec 2018 13:19

Tgt Ion: 106 Resp: 804229

Ion Ratio Lower Upper

106 100

91 210.6 167.4 251.0





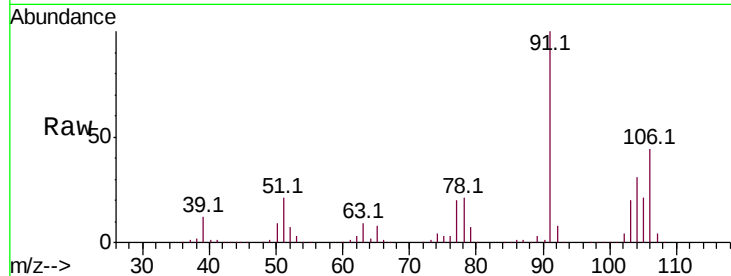
#69  
o-Xylene  
Concen: 153.370 ug/l  
RT: 9.78 min Scan# 2676  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

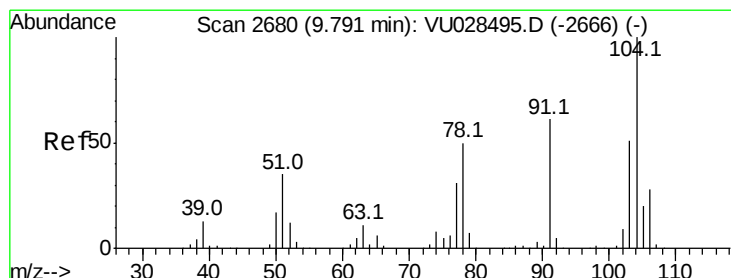
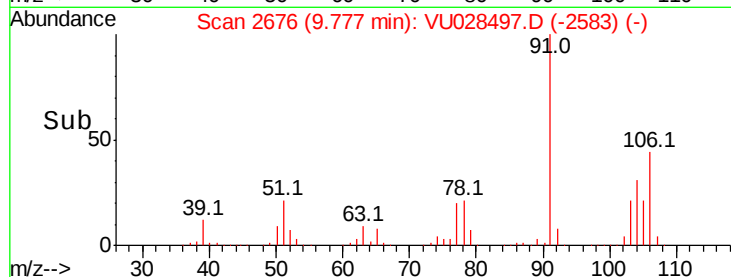
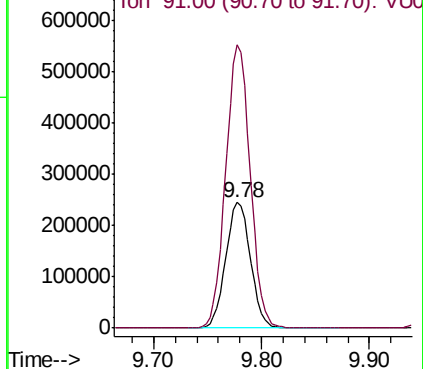
Tot Ion:106 Resp: 391258  
Ion Ratio Lower Upper  
106 100  
91 222.8 111.3 334.0

Manual Integrations  
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MMDadoda  
12/7/2018 10:35:06 AM

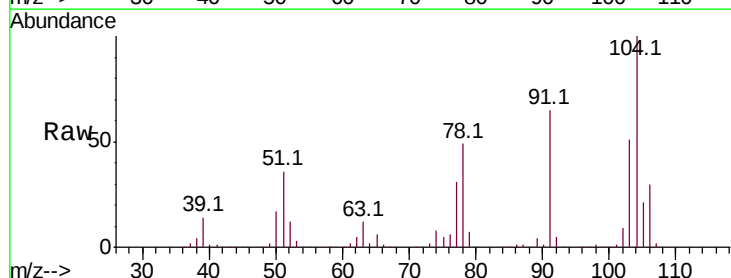


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

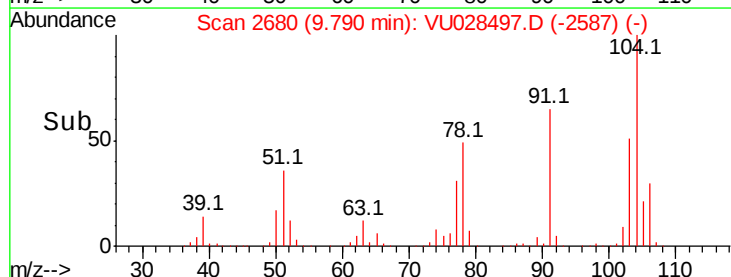
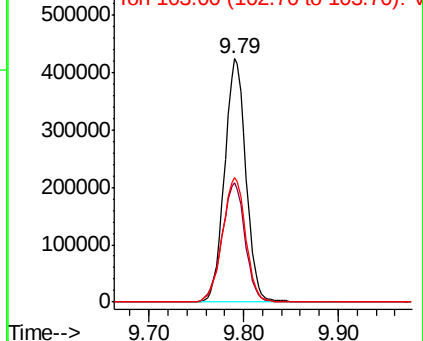


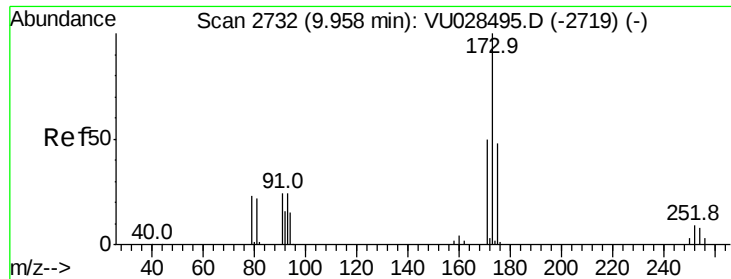
#70  
Styrene  
Concen: 157.705 ug/l  
RT: 9.79 min Scan# 2680  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Tgt Ion:104 Resp: 665804  
Ion Ratio Lower Upper  
104 100  
78 53.0 43.0 64.6  
103 55.5 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VU0  
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 165.445 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 176378

Ion Ratio Lower Upper

173 100

175 48.4 23.9 71.8

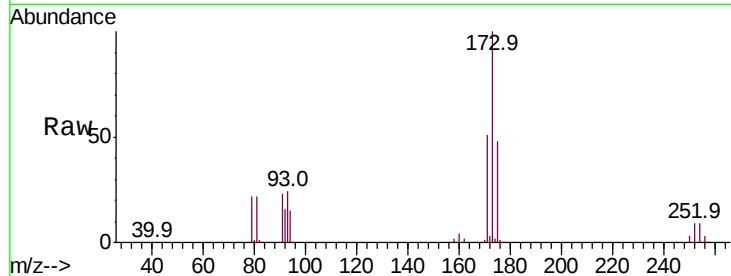
254 0.0 0.0 0.0#

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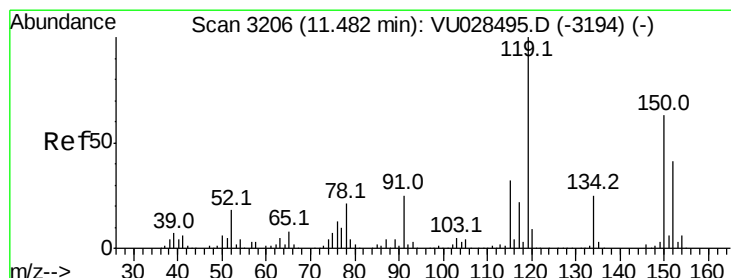
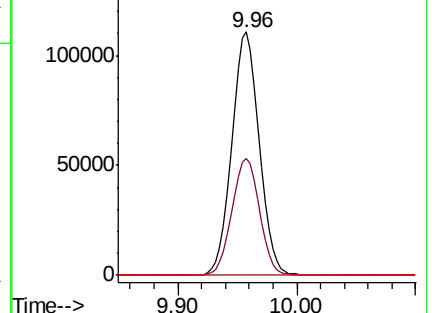
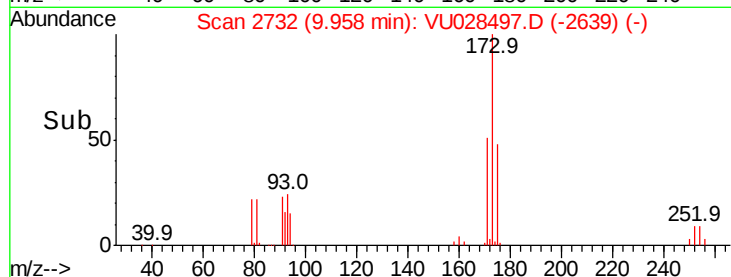
12/7/2018 10:35:06 AM



Abundance Ion 172.70 (172.40 to 173.40): V

150000 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# 3206

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

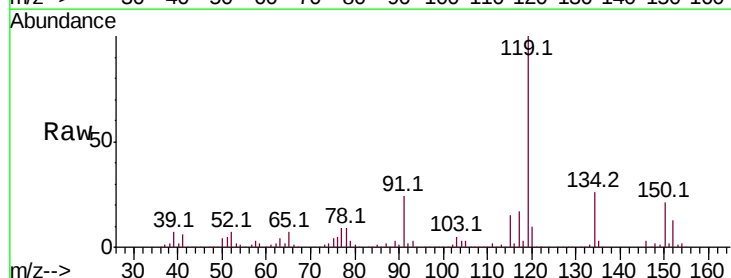
Tgt Ion:152 Resp: 96889

Ion Ratio Lower Upper

152 100

115 132.7 42.7 128.1#

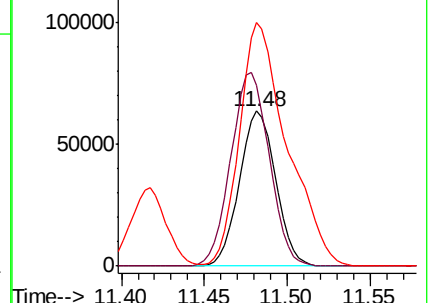
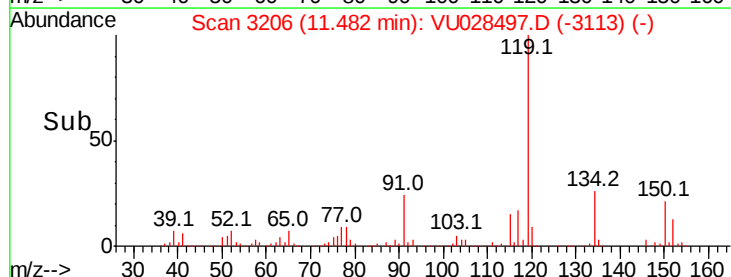
150 207.0 0.0 346.0

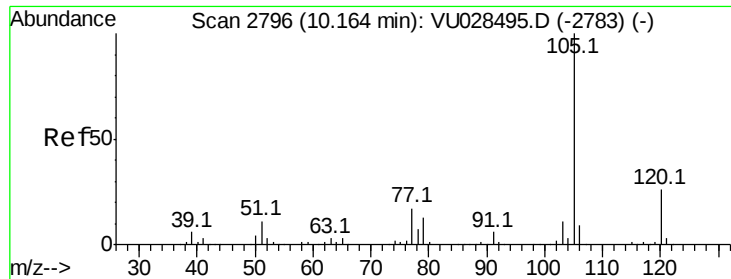


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





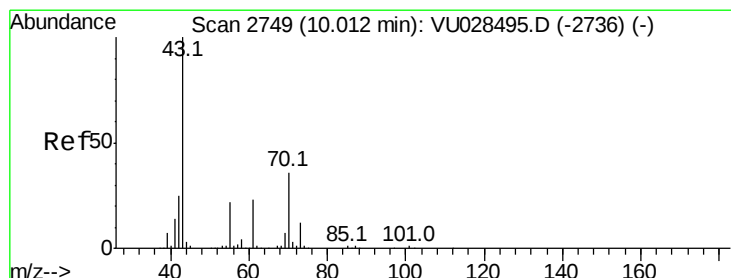
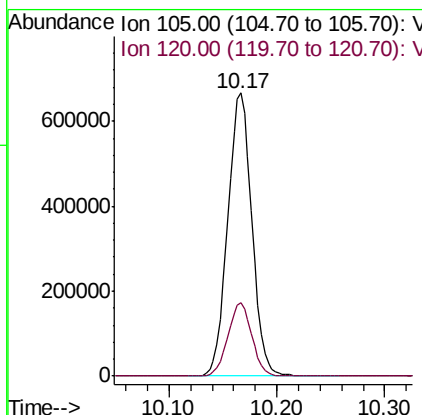
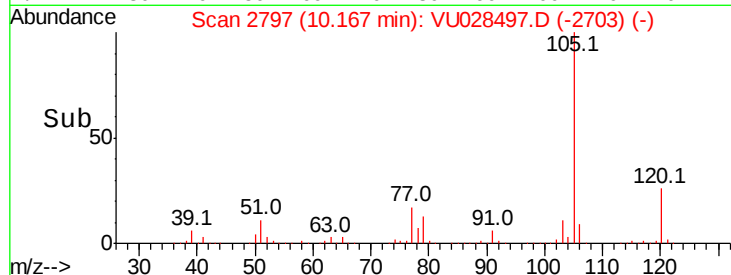
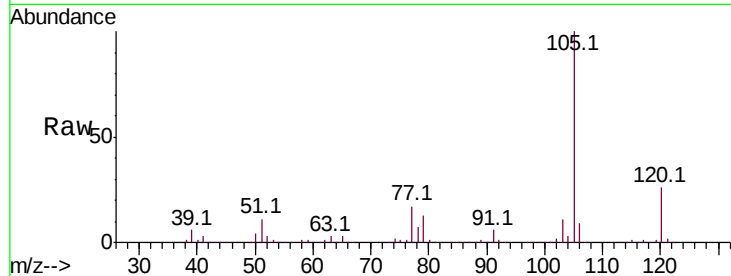
#73  
Isopropylbenzene  
Concen: 139.748 ug/l  
RT: 10.17 min Scan# 2797  
Delta R.T. 0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

Tot Ion:105 Resp: 1038978  
Ion Ratio Lower Upper  
105 100  
120 25.7 12.9 38.6

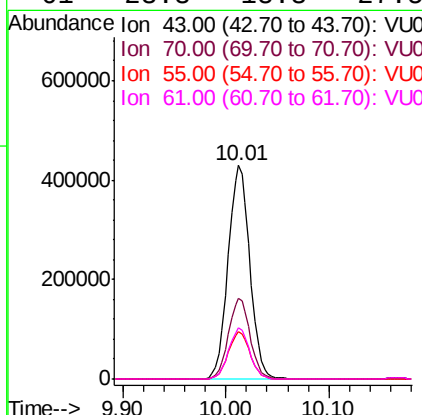
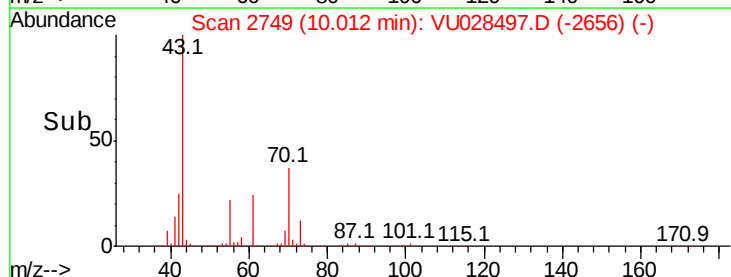
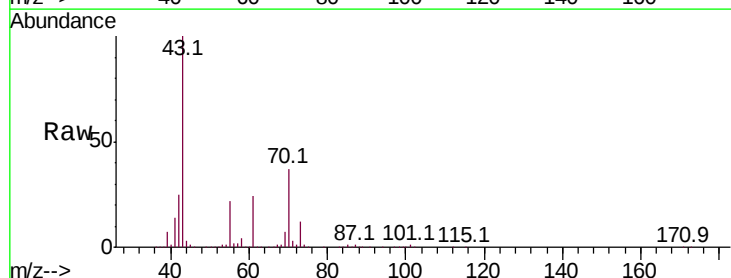
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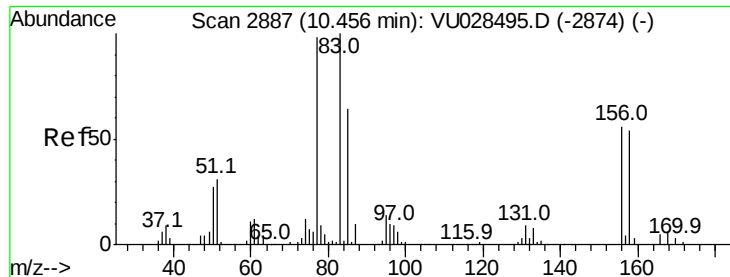
MMDadoda  
12/7/2018 10:35:06 AM



#74  
N-ethyl acetate  
Concen: 146.884 ug/l  
RT: 10.01 min Scan# 2749  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Tgt Ion: 43 Resp: 629913  
Ion Ratio Lower Upper  
43 100  
70 37.5 29.3 43.9  
55 22.1 18.0 27.0  
61 23.3 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 145.642 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 415948

Ion Ratio Lower Upper

83 100

131 8.3 4.2 12.4

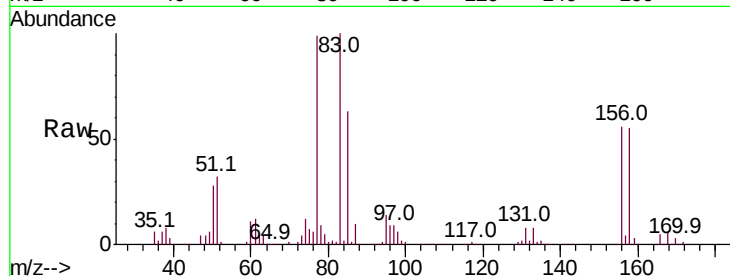
85 63.4 31.8 95.4

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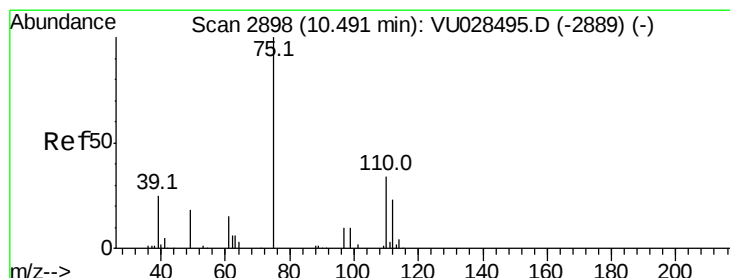
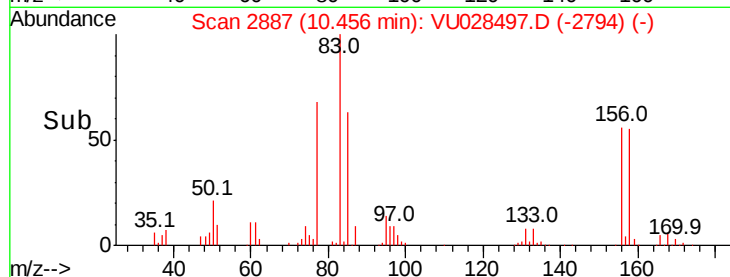
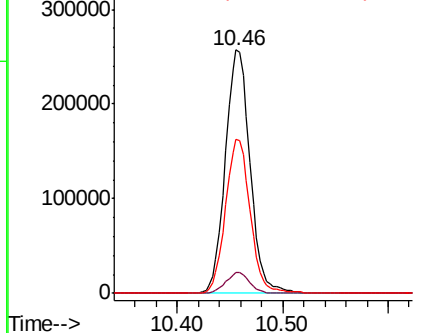
12/7/2018 10:35:06 AM



Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 130.80 (130.50 to 131.50): VU0

Ion 84.90 (84.60 to 85.60): VU0



#76

1,2,3-Trichloropropane

Concen: 128.239 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028497.D

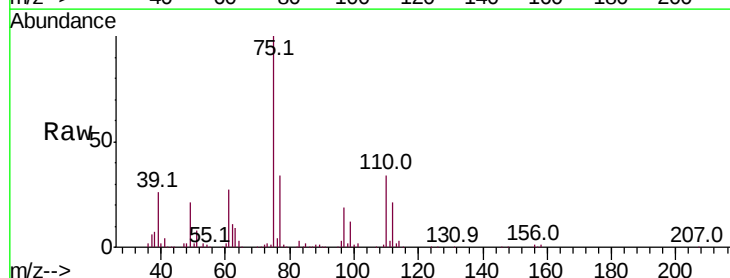
Acq: 06 Dec 2018 13:19

Tgt Ion: 75 Resp: 358456

Ion Ratio Lower Upper

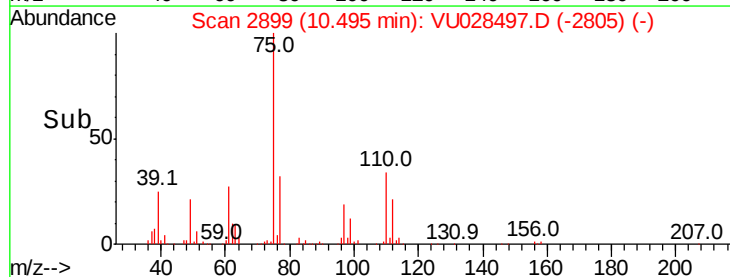
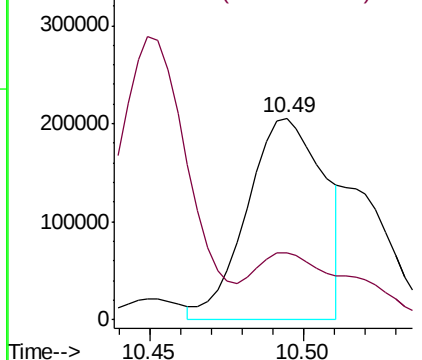
75 100

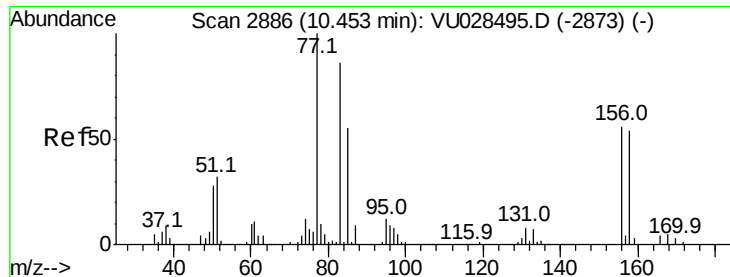
77 43.5 20.8 62.4



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#77

Bromobenzene

Concen: 144.838 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

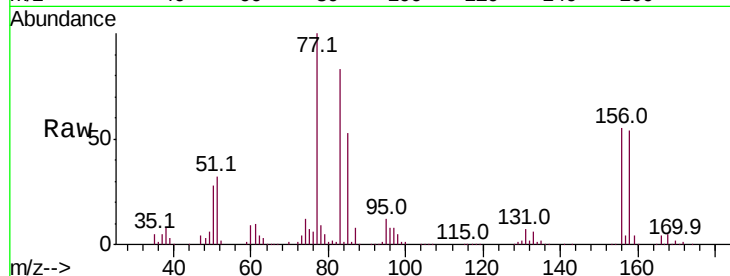
ClientSampleId :

VSTDIC150

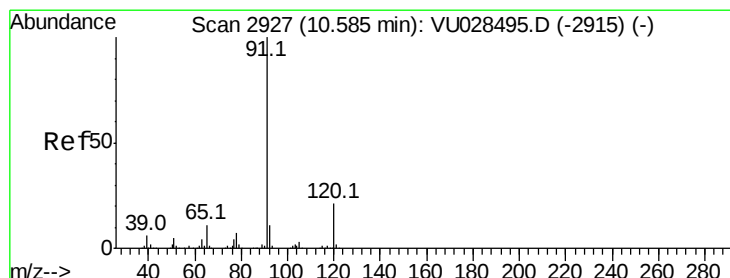
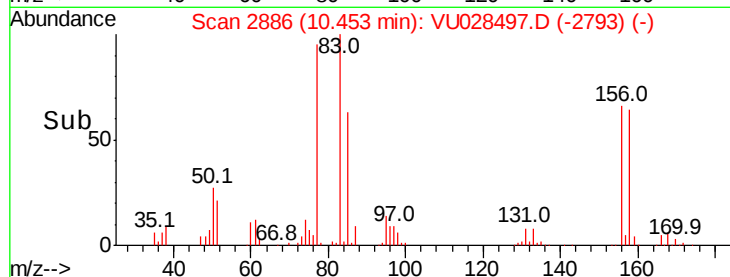
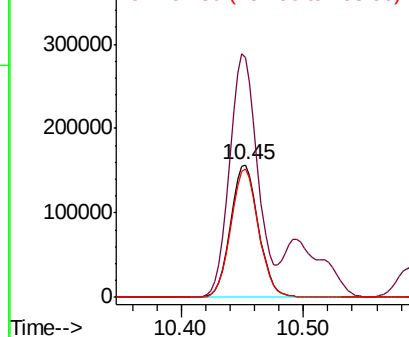
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 251840 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 185.4 | 92.4  | 277.2  |
| 158       | 96.2  | 48.4  | 145.3  |

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Abundance Ion 155.80 (155.50 to 156.50): V  
Ion 77.00 (76.70 to 77.30): VU0  
Ion 157.80 (157.50 to 158.10): V



#78

n-propylbenzene

Concen: 142.632 ug/l

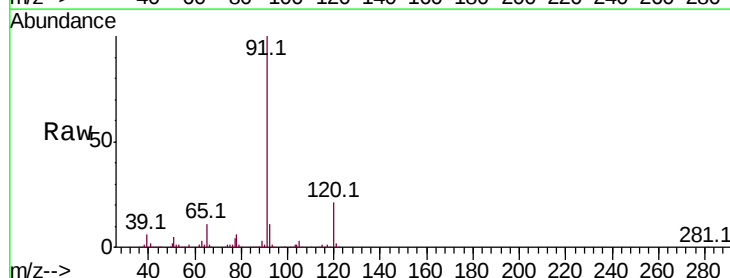
RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

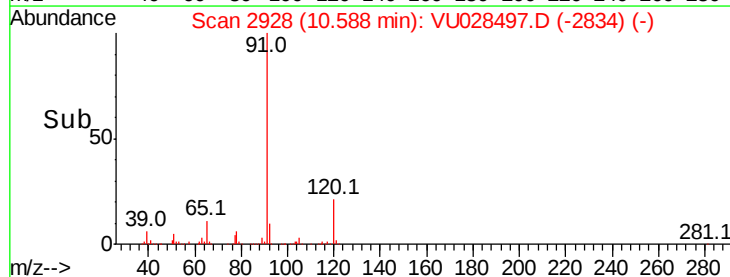
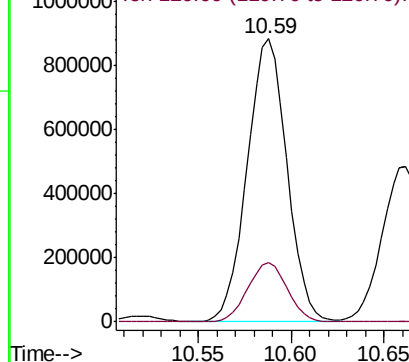
Lab File: VU028497.D

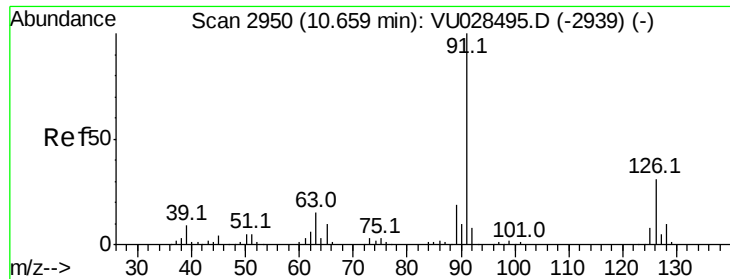
Acq: 06 Dec 2018 13:19

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1317667 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 120       | 21.0  | 10.6  | 31.8    |



Abundance Ion 91.00 (90.70 to 91.30): VU0  
Ion 120.00 (119.70 to 120.30): V





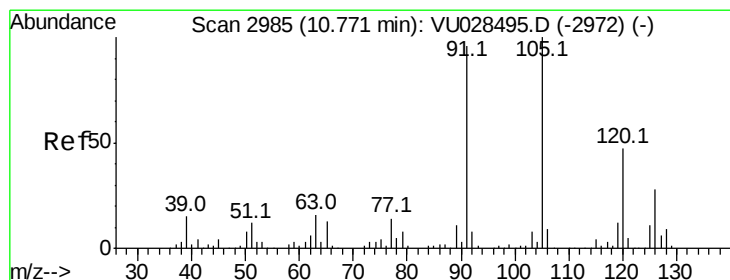
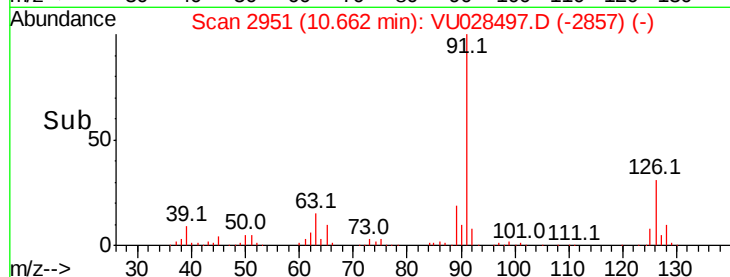
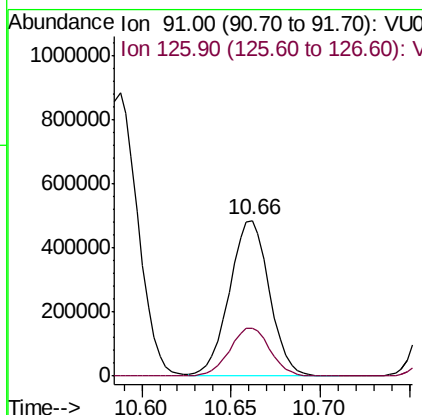
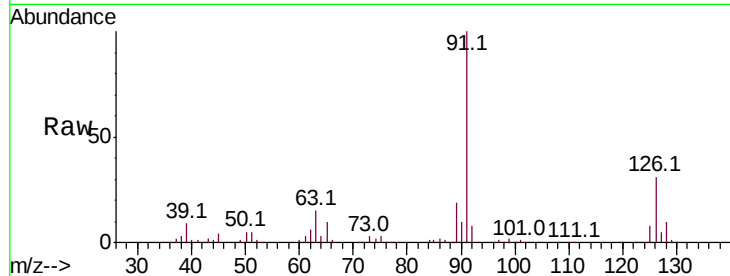
#79  
2-Chlorotoluene  
Concen: 141.459 ug/l  
RT: 10.66 min Scan# 2951  
Delta R.T. 0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

Tot Ion: 91 Resp: 752764  
Ion Ratio Lower Upper  
91 100  
126 31.3 15.6 46.8

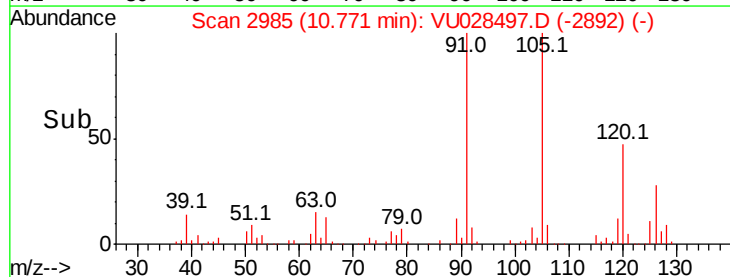
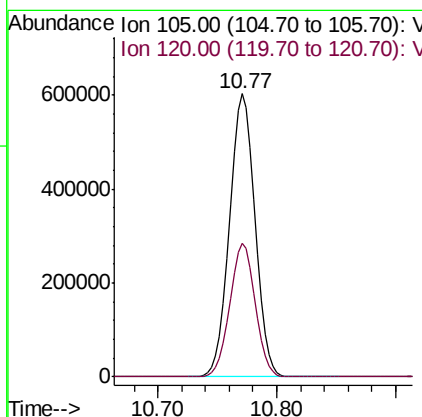
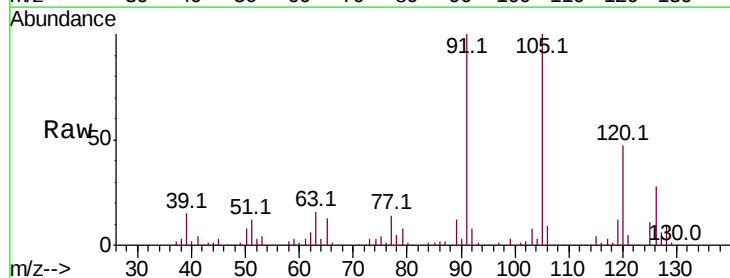
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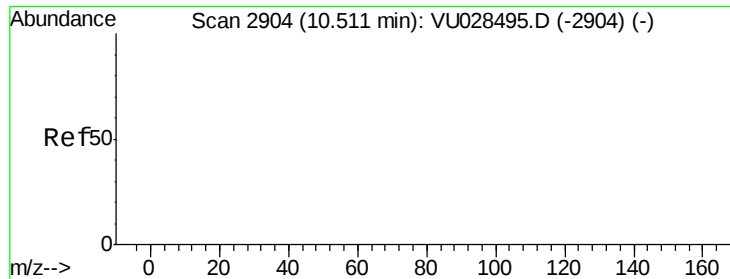
MMDadoda  
12/7/2018 10:35:06 AM



#80  
1,3,5-Trimethylbenzene  
Concen: 145.204 ug/l  
RT: 10.77 min Scan# 2985  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Tgt Ion: 105 Resp: 893609  
Ion Ratio Lower Upper  
105 100  
120 47.1 23.7 71.1





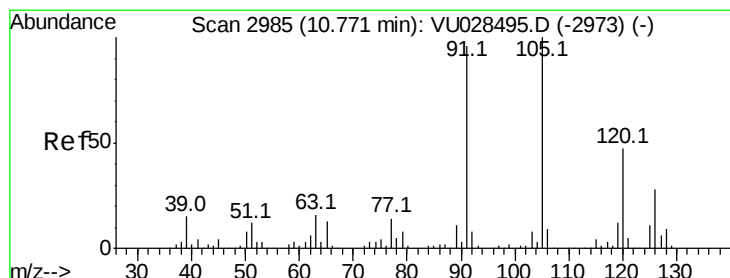
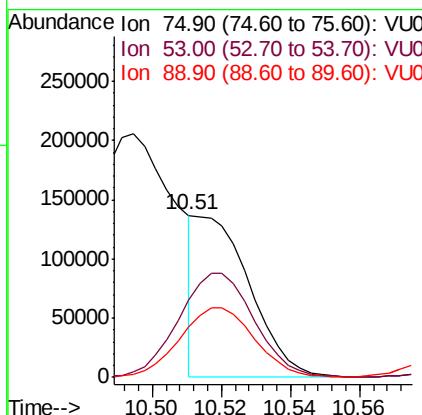
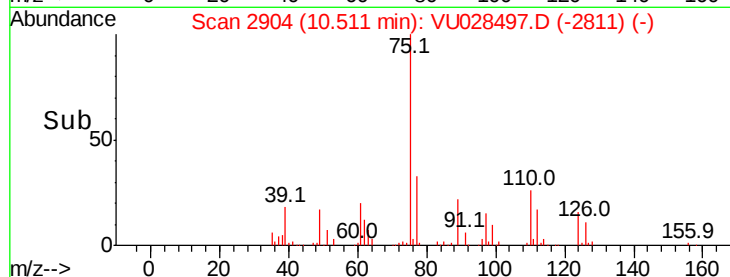
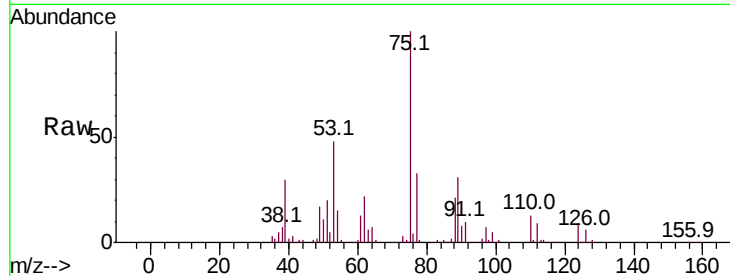
#81  
trans-1,4-Dichloro-2-butene  
Concen: 106.852 ug/l m  
RT: 10.51 min Scan# 2904  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

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

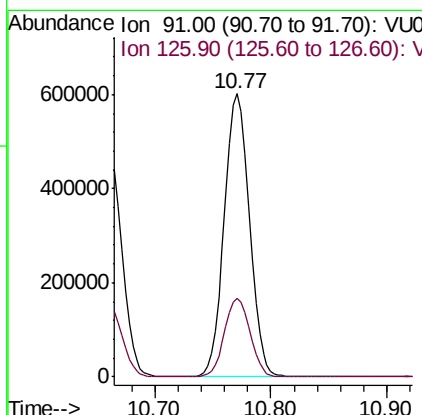
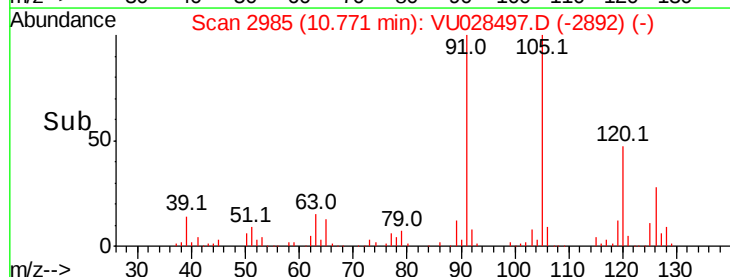
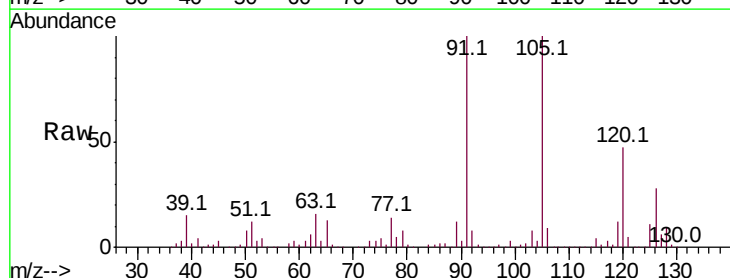
Manual Integrations  
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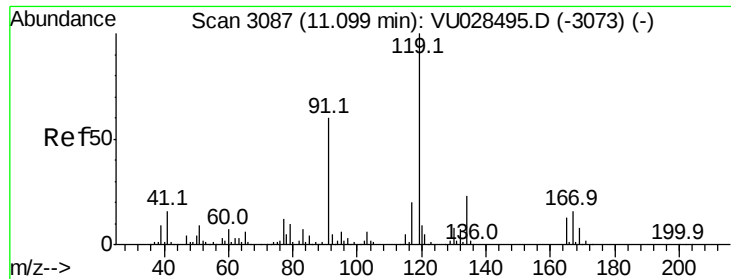
MMDadoda  
12/7/2018 10:35:06 AM



#82  
4-Chlorotoluene  
Concen: 143.111 ug/l  
RT: 10.77 min Scan# 2985  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 28.3  | 14.1  | 42.3  |





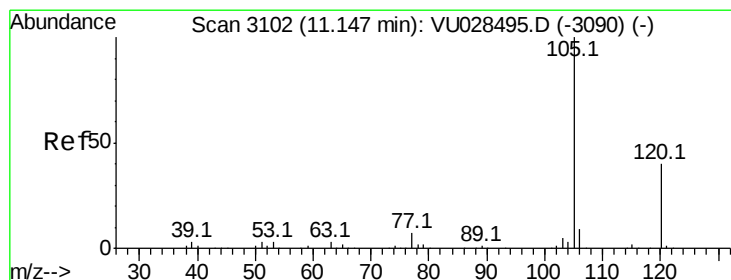
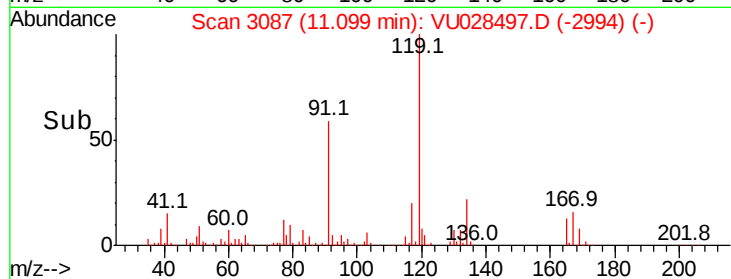
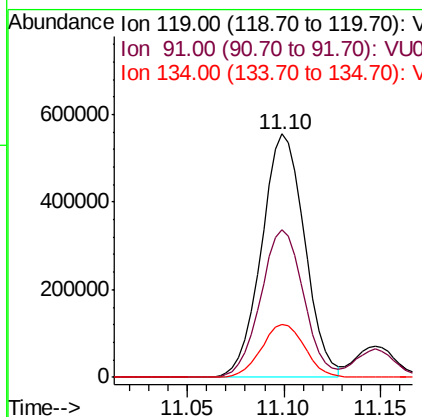
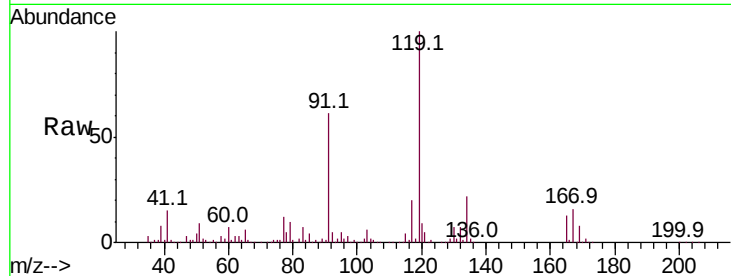
#83  
tert-Butylbenzene  
Concen: 145.025 ug/l  
RT: 11.10 min Scan# 3087  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 860256 |       |       |
| 91      | 60.4  |        | 30.3  | 91.0  |
| 134     | 21.9  |        | 11.2  | 33.5  |

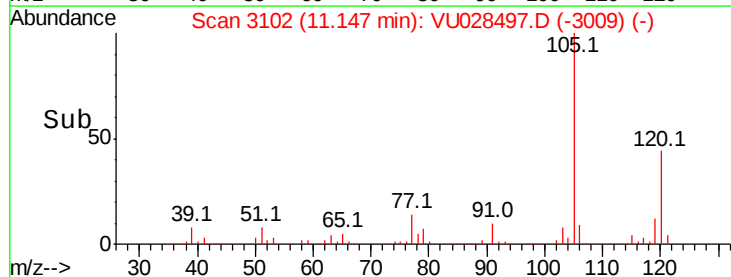
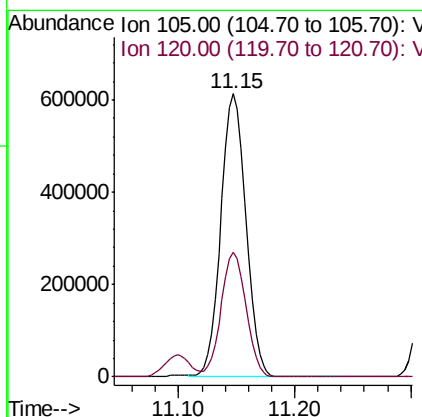
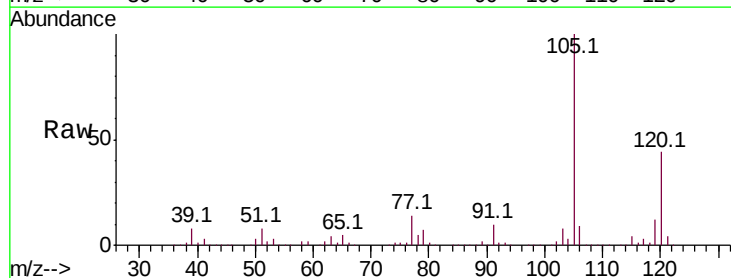
Manual Integrations  
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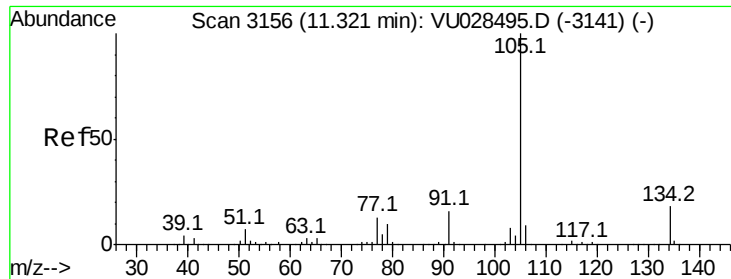
MMDadoda  
12/7/2018 10:35:06 AM



#84  
1,2,4-Trimethylbenzene  
Concen: 144.742 ug/l  
RT: 11.15 min Scan# 3102  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 918008 |       |       |
| 120     | 44.0  |        | 21.8  | 65.4  |





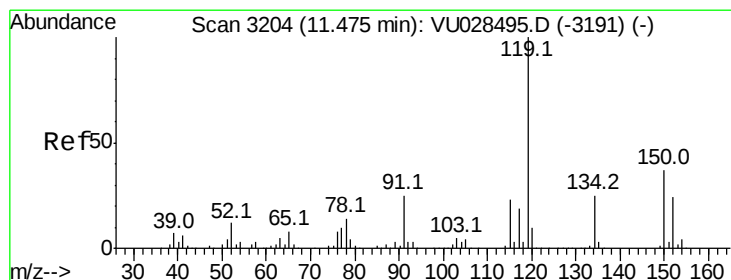
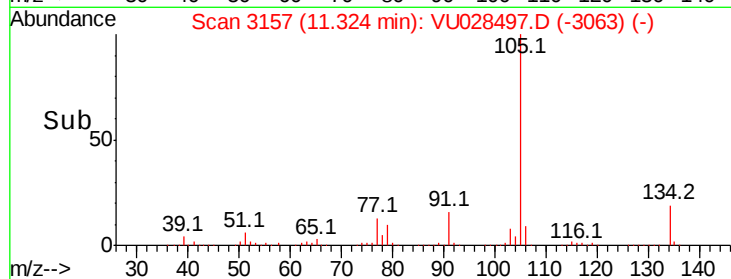
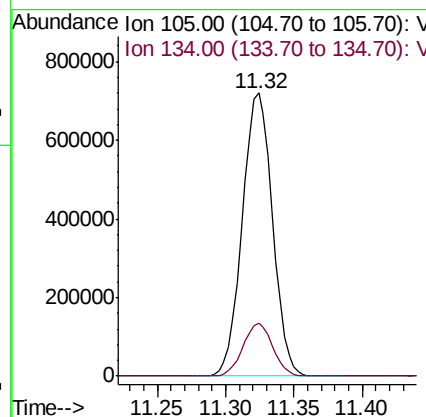
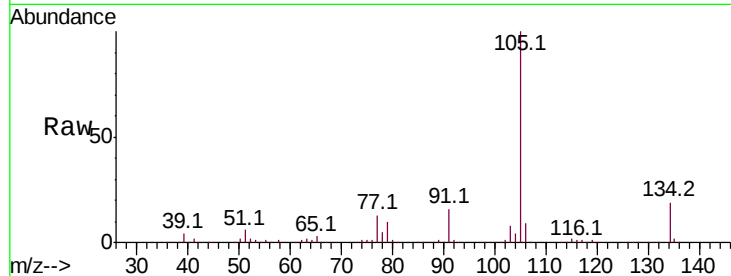
#85  
 sec-Butylbenzene  
 Concen: 144.882 ug/l  
 RT: 11.32 min Scan# 3157  
 Delta R.T. 0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

Tot Ion:105 Resp: 1104056  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 9.2 27.6

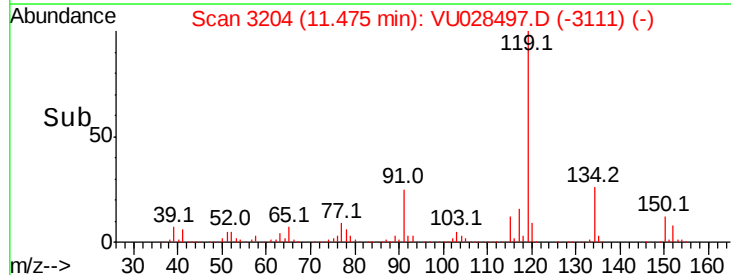
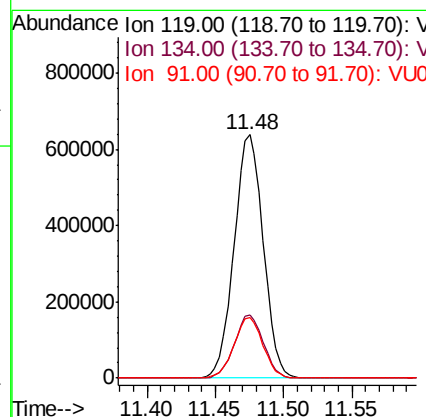
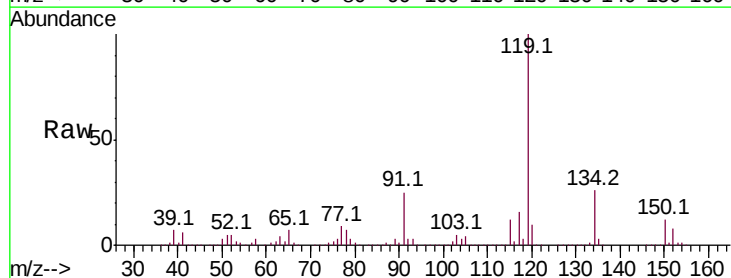
Manual Integrations  
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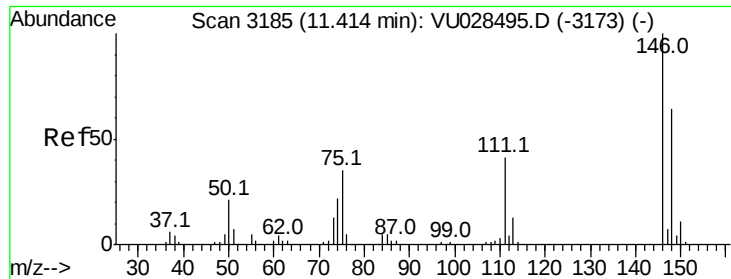
MMDadoda  
 12/7/2018 10:35:06 AM



#86  
 p-Isopropyltoluene  
 Concen: 145.842 ug/l  
 RT: 11.48 min Scan# 3204  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Tgt Ion:119 Resp: 944074  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 12.7 38.1  
 91 24.8 12.6 37.6





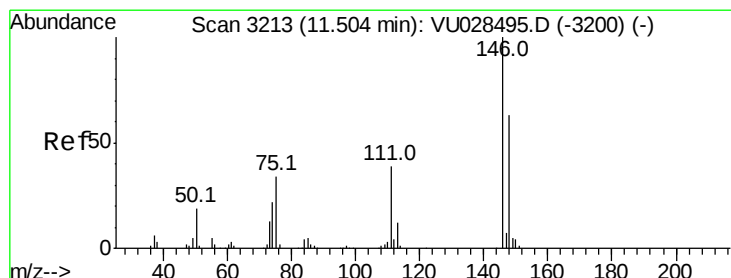
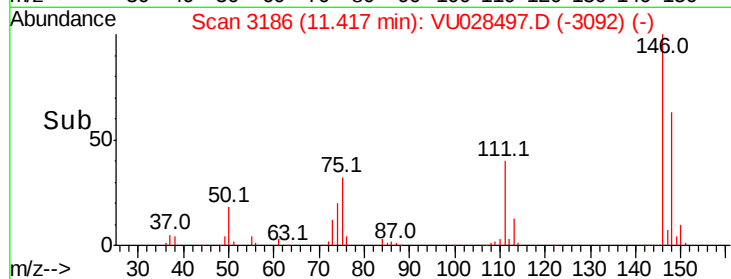
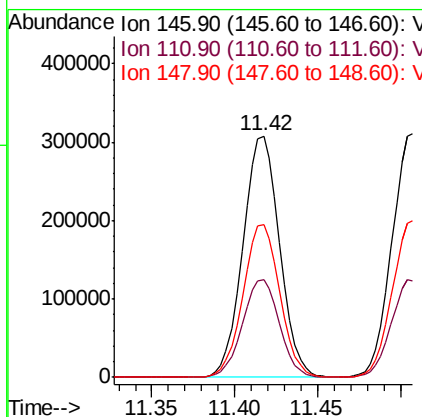
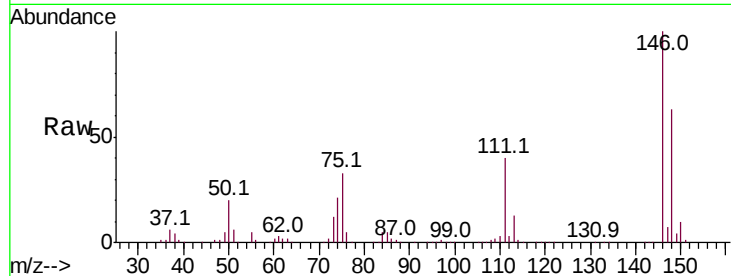
#87  
 1,3-Dichlorobenzene  
 Concen: 144.112 ug/l  
 RT: 11.42 min Scan# 3186  
 Delta R.T. 0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.7  | 20.7  | 62.1  |
| 148     | 63.5  | 31.9  | 95.7  |

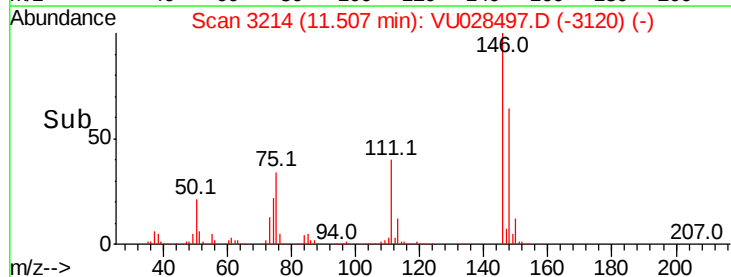
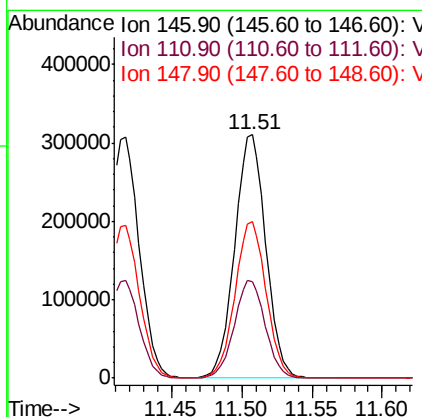
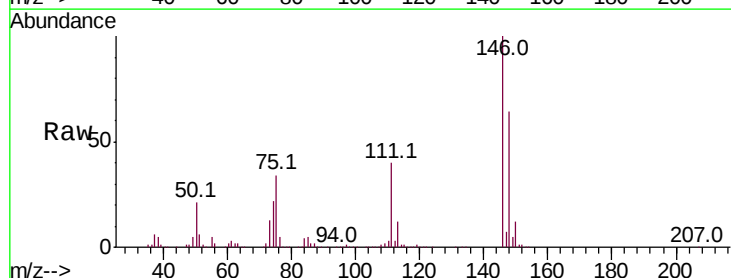
Manual Integrations  
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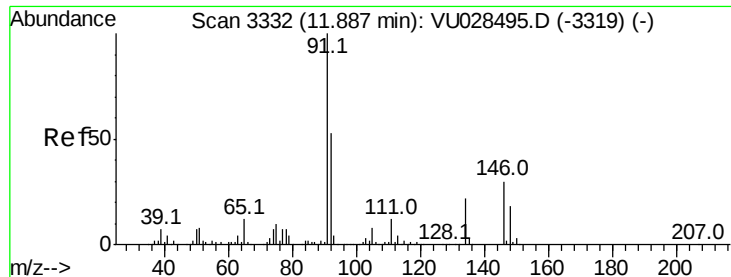
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 12/7/2018 10:35:06 AM



#88  
 1,4-Dichlorobenzene  
 Concen: 140.917 ug/l  
 RT: 11.51 min Scan# 3214  
 Delta R.T. 0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.1  | 20.2  | 60.5  |
| 148     | 64.4  | 31.6  | 95.0  |





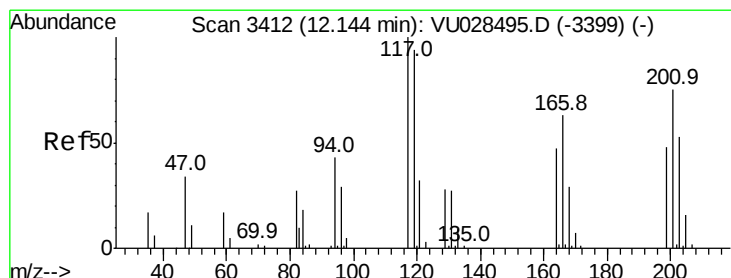
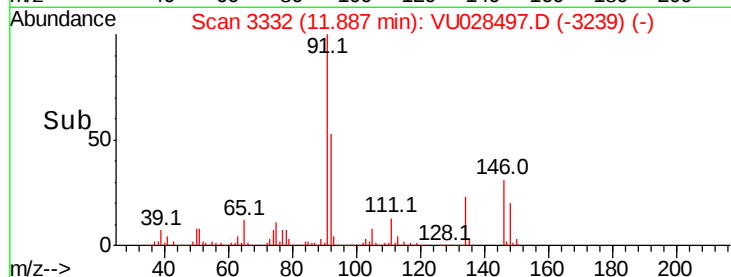
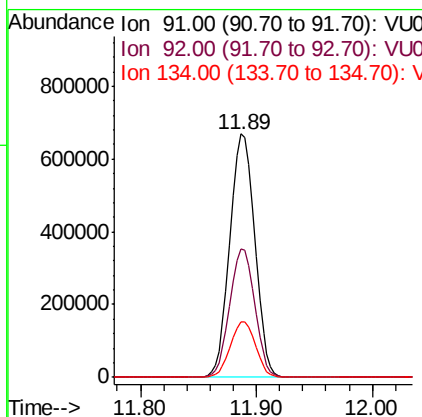
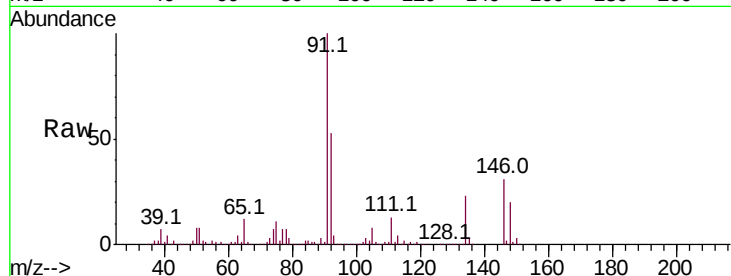
#89  
n-Butylbenzene  
Concen: 151.607 ug/l  
RT: 11.89 min Scan# 3332  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 993212 |       |       |
| 92      | 52.8  | 26.3   | 78.9  |       |
| 134     | 23.0  | 11.3   | 33.8  |       |

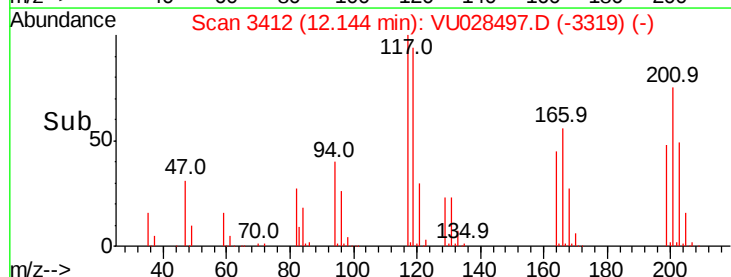
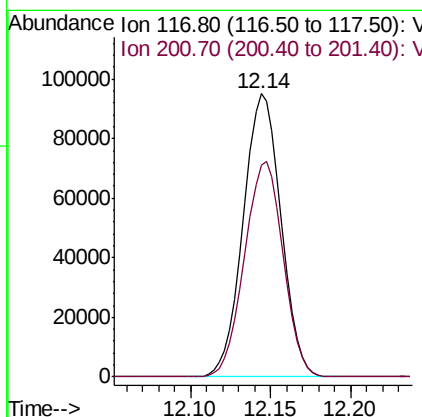
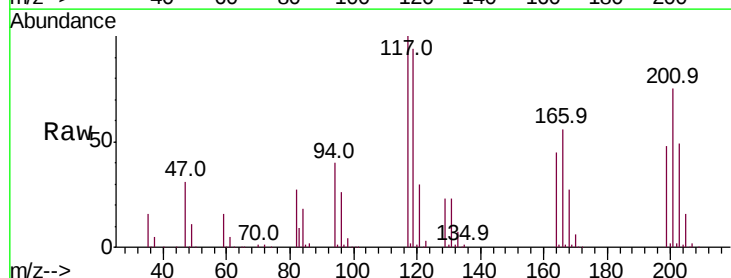
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#90  
Hexachloroethane  
Concen: 156.223 ug/l  
RT: 12.14 min Scan# 3412  
Delta R.T. -0.00 min  
Lab File: VU028497.D  
Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 152851 |       |       |
| 201     | 77.9  | 38.1   | 114.5 |       |





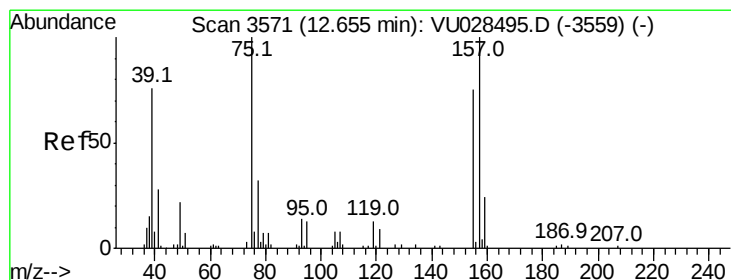
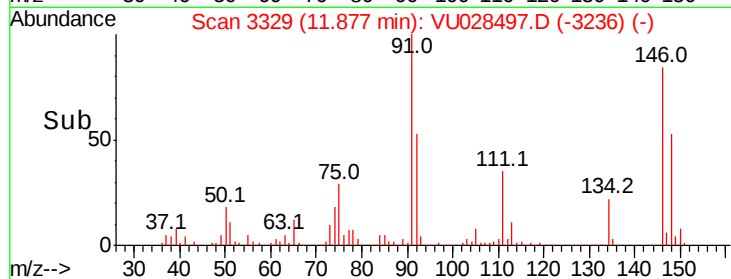
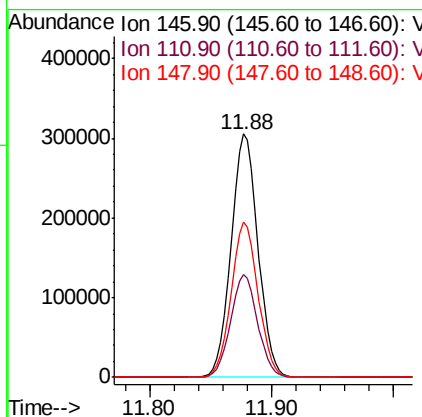
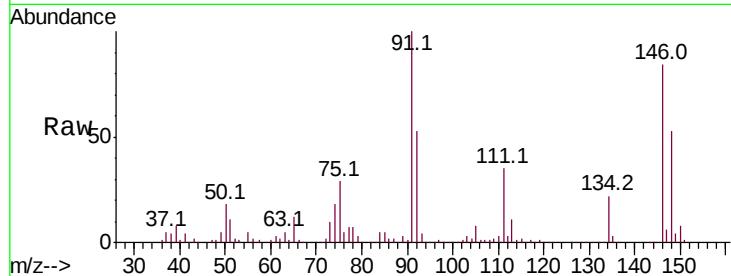
#91  
 1,2-Dichlorobenzene  
 Concen: 143.097 ug/l  
 RT: 11.88 min Scan# 3329  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 469954 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 42.3  | 21.1  | 63.4   |
| 148       | 63.7  | 31.4  | 94.2   |

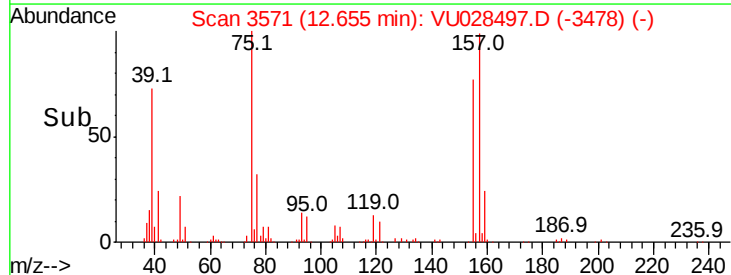
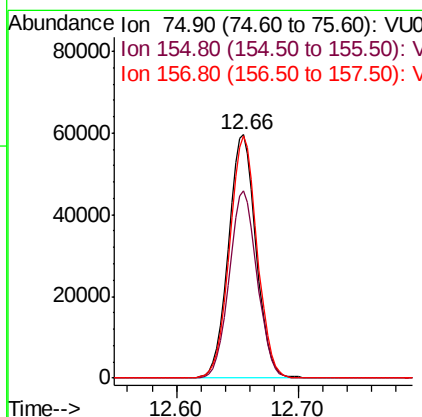
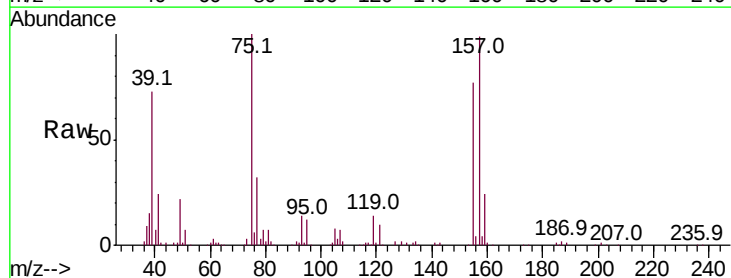
Manual Integrations  
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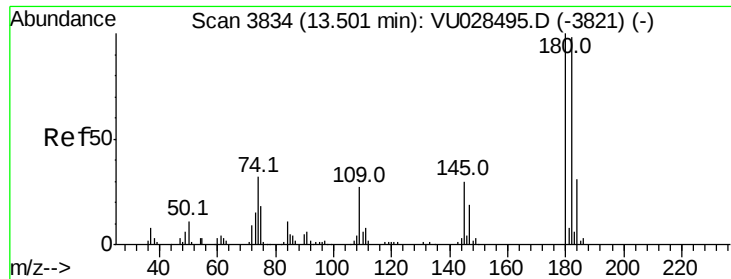
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 12/7/2018 10:35:06 AM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 152.362 ug/l  
 RT: 12.66 min Scan# 3571  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 94207 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 77.3  | 38.1  | 114.5 |
| 157       | 98.9  | 48.7  | 146.1 |





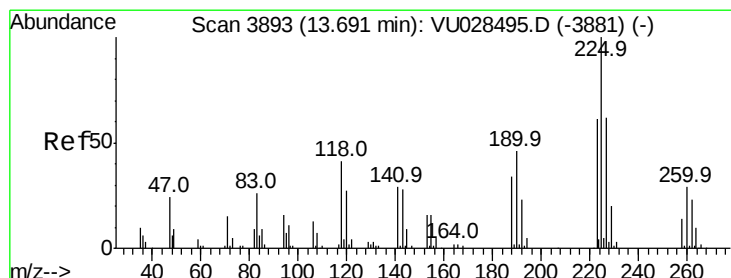
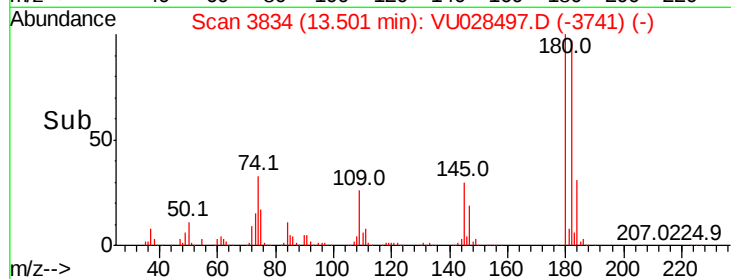
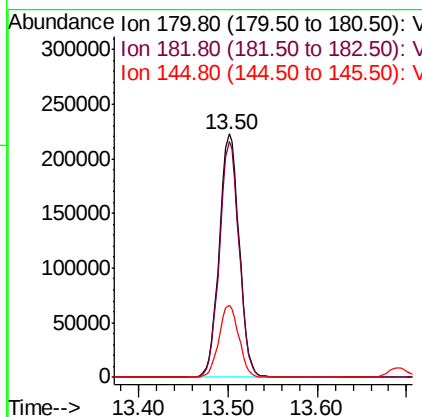
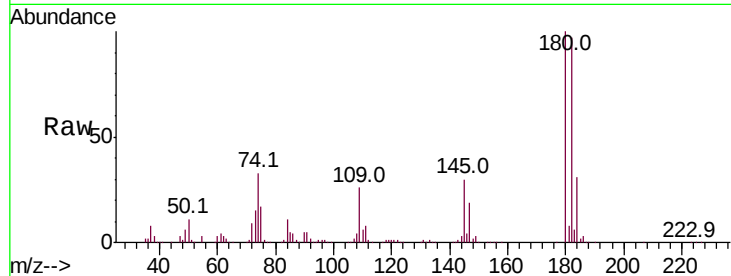
#93  
 1,2,4-Trichlorobenzene  
 Concen: 146.124 ug/l  
 RT: 13.50 min Scan# 3834  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 47.9  | 143.8 |
| 145     | 29.7  | 15.0  | 45.1  |

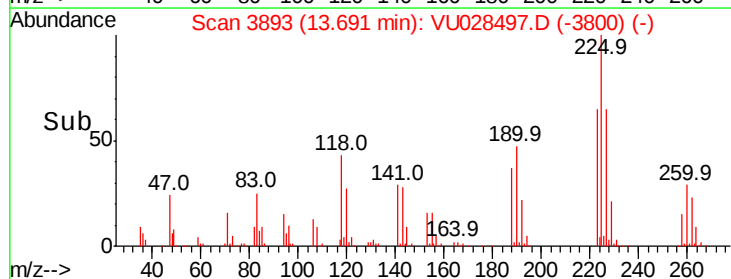
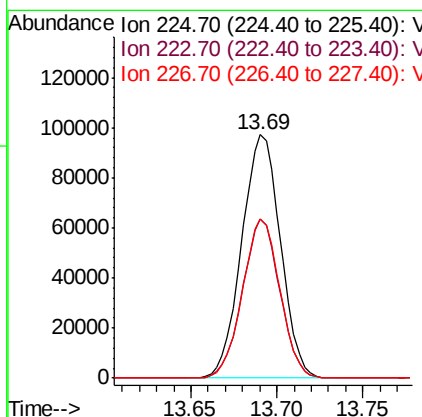
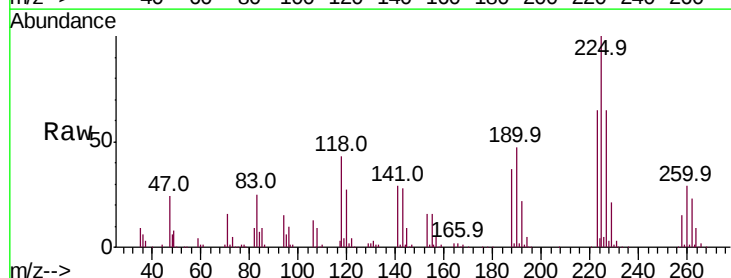
Manual Integrations  
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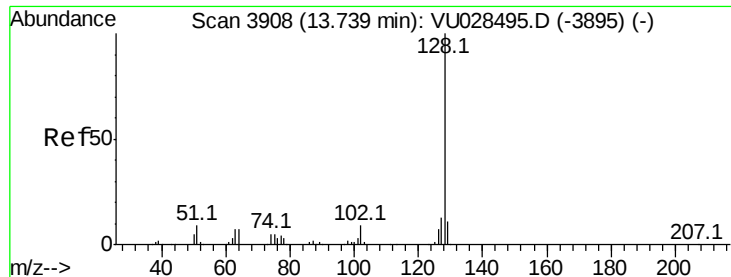
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 12/7/2018 10:35:06 AM



#94  
 Hexachlorobutadiene  
 Concen: 140.924 ug/l  
 RT: 13.69 min Scan# 3893  
 Delta R.T. -0.00 min  
 Lab File: VU028497.D  
 Acq: 06 Dec 2018 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.0  | 30.4  | 91.2  |
| 227     | 63.3  | 30.7  | 92.1  |





#95

Naphthalene

Concen: 147.307 ug/l

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC150

Tot Ion:128 Resp: 1160890

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

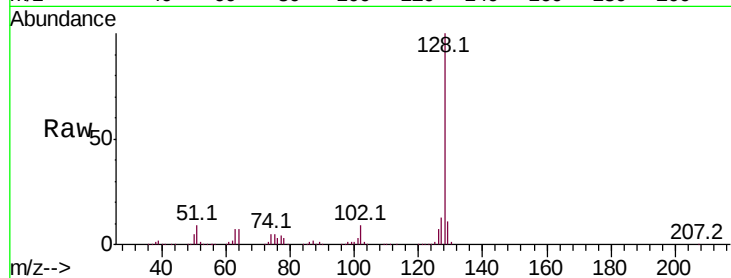
129 10.8 8.6 13.0

Manual Integrations

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MMDadoda

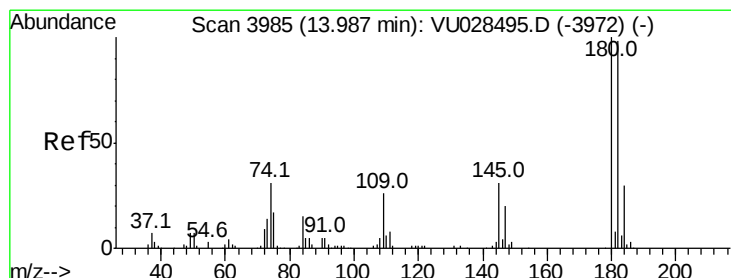
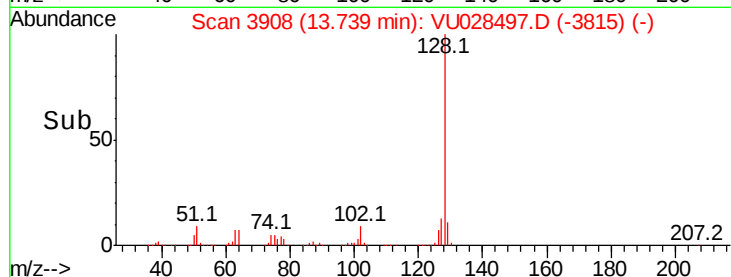
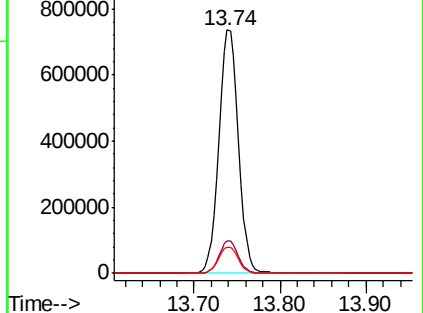
12/7/2018 10:35:06 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 142.815 ug/l

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU028497.D

Acq: 06 Dec 2018 13:19

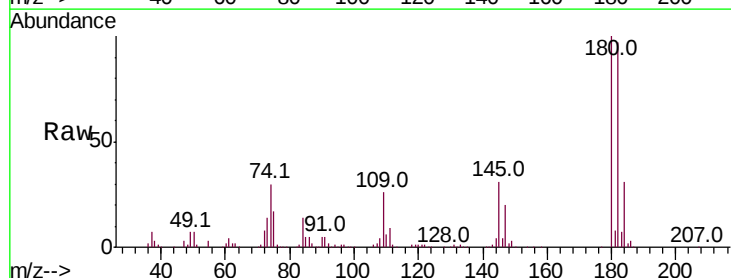
Tgt Ion:180 Resp: 338307

Ion Ratio Lower Upper

180 100

182 95.9 48.2 144.6

145 31.6 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

