

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\  
 Data File : VU026166.D  
 Acq On : 15 Aug 2018 23:38  
 Operator : MD/SY  
 Sample : MDL04  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

Manual Integrations  
 APPROVED

MMDadoda  
 8/16/2018 4:20:29 PM

Quant Time: Aug 16 05:05:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 16 04:40:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 272685   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 259005   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 107096   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 67305    | 42.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.06%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 57989    | 44.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.12%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 104826   | 33.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.68%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 129647   | 105.53   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.53% |
| 24) Chloroform-d               | 4.65    | 84    | 163319   | 45.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.08%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 109353   | 46.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.18%  |
| 32) Benzene-d6                 | 5.35    | 84    | 313292   | 46.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.84%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 105184   | 47.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.82%  |
| 41) Toluene-d8                 | 7.57    | 98    | 286224   | 44.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.56%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 46491    | 44.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.46%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 89236    | 99.21    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.21%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 143103   | 46.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.62%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 110041   | 49.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.76%  |

## Target Compounds

|                                |      |     |       |      |        | Ovalue |
|--------------------------------|------|-----|-------|------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 4852  | 2.25 | ug/L   | 99     |
| 3) Chloromethane               | 1.33 | 50  | 5500  | 2.80 | ug/L   | 94     |
| 5) Vinyl chloride              | 1.40 | 62  | 4749  | 2.42 | ug/L # | 60     |
| 6) Bromomethane                | 1.62 | 94  | 2406  | 2.38 | ug/L   | 99     |
| 8) Chloroethane                | 1.69 | 64  | 2649  | 2.25 | ug/L # | 76     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 6524  | 2.25 | ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 4152  | 2.64 | ug/L   | 90     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 3759  | 2.61 | ug/L # | 1      |
| 13) Acetone                    | 2.32 | 43  | 5174  | 4.60 | ug/L   | 93     |
| 14) Carbon disulfide           | 2.47 | 76  | 11771 | 2.36 | ug/L   | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 5485  | 2.81 | ug/L # | 72     |
| 16) Methylene chloride         | 2.70 | 84  | 4942  | 2.56 | ug/L   | 94     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 3682  | 2.15 | ug/L   | 94     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 11685 | 2.15 | ug/L # | 94     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 8015  | 2.44 | ug/L   | 94     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 4305  | 2.25 | ug/L   | 96     |
| 22) 2-Butanone                 | 4.27 | 43  | 6837m | 4.88 | ug/L   |        |

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 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 MDL04

Manual Integrations  
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 8/16/2018 4:20:29 PM

Quant Time: Aug 16 05:05:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 16 04:40:24 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|------|--------|----------|
| 23) Bromochloromethane          | 4.56  | 128  | 2447m    | 2.36 | ug/L   |          |
| 25) Chloroform                  | 4.68  | 83   | 9430     | 2.73 | ug/L   | 89       |
| 27) 1,2-Dichloroethane          | 5.41  | 62   | 6609     | 2.37 | ug/L # | 93       |
| 29) Cyclohexane                 | 5.00  | 56   | 5458     | 2.11 | ug/L   | 97       |
| 30) 1,1,1-Trichloroethane       | 4.92  | 97   | 7223     | 2.33 | ug/L   | 97       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 6773     | 2.42 | ug/L   | 93       |
| 33) Benzene                     | 5.39  | 78   | 16639    | 2.37 | ug/L   | 100      |
| 34) Trichloroethene             | 6.19  | 95   | 4200     | 2.30 | ug/L   | 89       |
| 35) Methylcyclohexane           | 6.42  | 83   | 5866     | 2.14 | ug/L   | 91       |
| 37) 1,2-Dichloropropane         | 6.44  | 63   | 4726     | 2.41 | ug/L # | 91       |
| 38) Bromodichloromethane        | 6.76  | 83   | 6429     | 2.48 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 5863     | 2.02 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 10618    | 4.37 | ug/L   | 100      |
| 42) Toluene                     | 7.64  | 91   | 16232    | 2.18 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene   | 7.89  | 75   | 5583     | 1.99 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 8.08  | 97   | 4203m    | 2.26 | ug/L   |          |
| 46) Tetrachloroethene           | 8.23  | 164  | 3567     | 2.26 | ug/L   | 91       |
| 48) 2-Hexanone                  | 8.36  | 43   | 9279     | 4.87 | ug/L   | 96       |
| 49) Dibromochloromethane        | 8.48  | 129  | 4913     | 2.20 | ug/L   | 94       |
| 50) 1,2-Dibromoethane           | 8.59  | 107  | 4534     | 2.35 | ug/L # | 97       |
| 51) Chlorobenzene               | 9.12  | 112  | 11345    | 2.23 | ug/L   | 99       |
| 52) Ethylbenzene                | 9.25  | 91   | 16191    | 2.00 | ug/L   | 95       |
| 53) m,p-Xylene                  | 9.38  | 106  | 5627     | 1.80 | ug/L   | 97       |
| 54) o-xylene                    | 9.78  | 106  | 5931     | 1.90 | ug/L   | 97       |
| 55) Styrene                     | 9.80  | 104  | 8650     | 1.67 | ug/L   | 99       |
| 56) Isopropylbenzene            | 10.17 | 105  | 13823    | 1.73 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.46 | 83   | 7793     | 2.51 | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane      | 10.50 | 75   | 5429     | 2.25 | ug/L   | 98       |
| 61) Bromoform                   | 9.96  | 173  | 3263     | 2.33 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene         | 11.42 | 146  | 7301     | 2.27 | ug/L   | 92       |
| 63) 1,4-Dichlorobenzene         | 11.51 | 146  | 7686     | 2.32 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 11.88 | 146  | 8749     | 2.55 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.66 | 75   | 1392     | 2.56 | ug/L # | 76       |
| 67) 1,3,5-Trichlorobenzene      | 12.90 | 180  | 4396     | 1.85 | ug/L   | 94       |
| 68) 1,2,4-trichlorobenzene      | 13.51 | 180  | 2585     | 1.44 | ug/L   | 92       |
| 69) Naphthalene                 | 13.75 | 128  | 7808m    | 1.53 | ug/L   |          |
| 70) 1,2,3-Trichlorobenzene      | 13.99 | 180  | 3051m    | 1.58 | ug/L   |          |

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

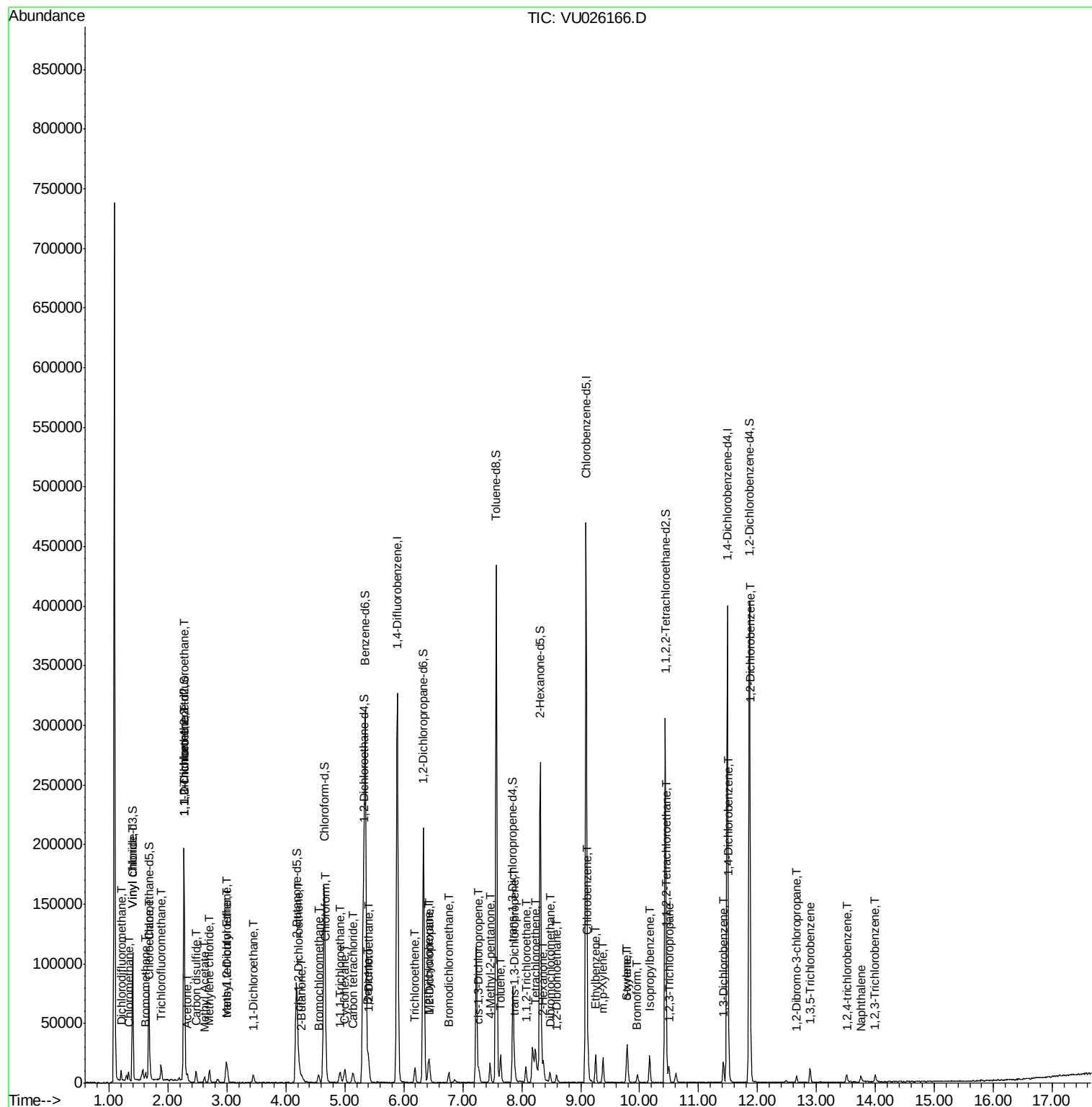
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\  
Data File : VU026166.D  
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Sample : MDL04  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 39 Sample Multiplier: 1

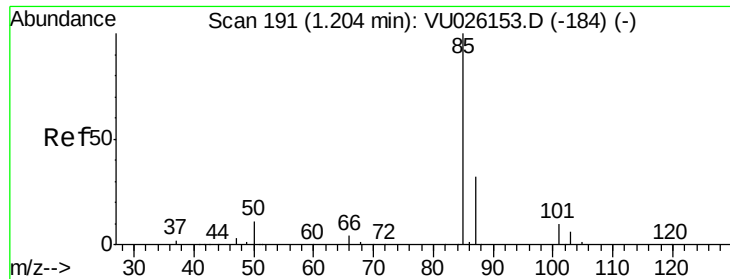
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

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Quant Time: Aug 16 05:05:35 2018  
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Quant Title : VOC Analysis  
QLast Update : Thu Aug 16 04:40:24 2018  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.25 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampled :

MDL04

Tot Ion: 85 Resp: 4852

Ion Ratio Lower Upper

85 100

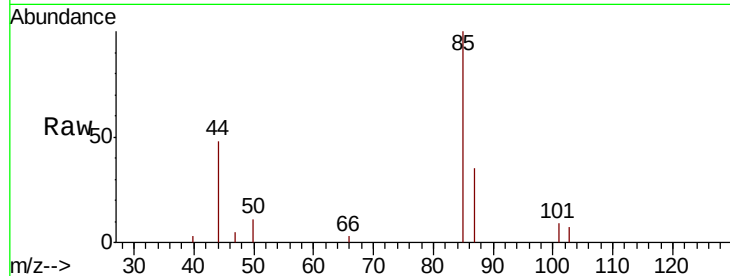
87 33.1 26.1 39.1

Manual Integrations

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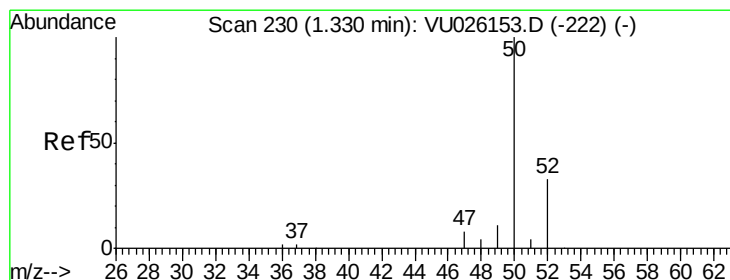
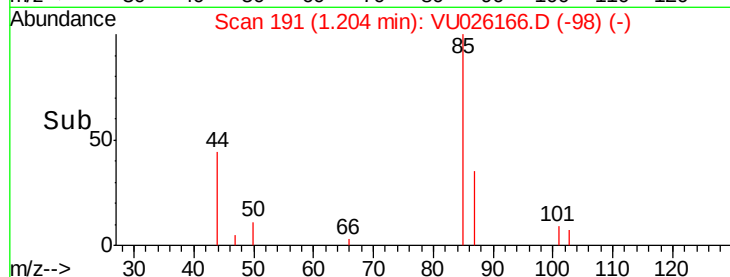
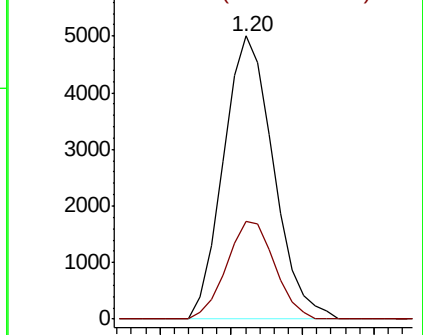
MMDadoda

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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.80 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026166.D

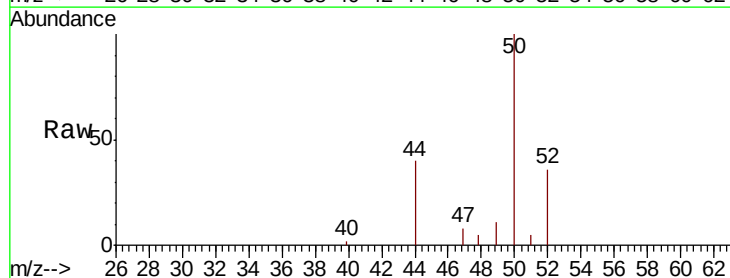
Acq: 15 Aug 2018 23:38

Tgt Ion: 50 Resp: 5500

Ion Ratio Lower Upper

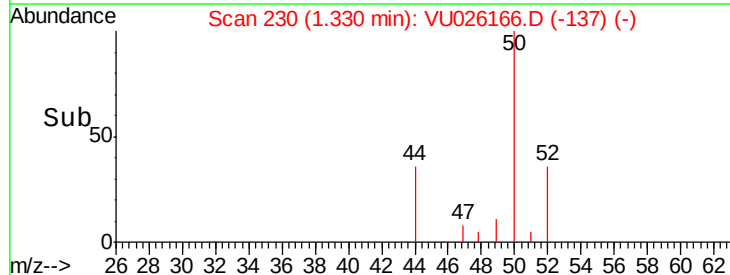
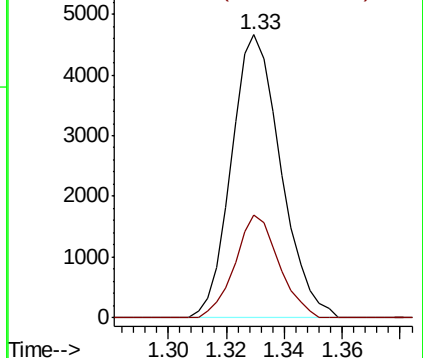
50 100

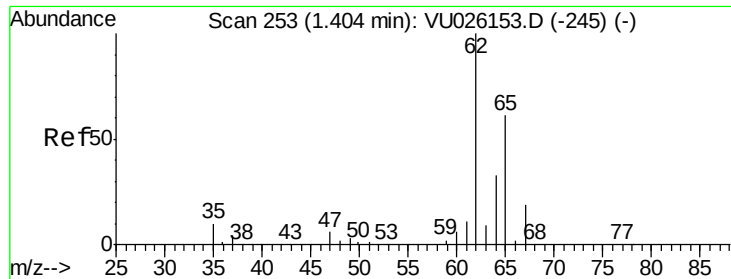
52 36.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.42 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

Tot Ion: 62 Resp: 4749

Ion Ratio Lower Upper

62 100

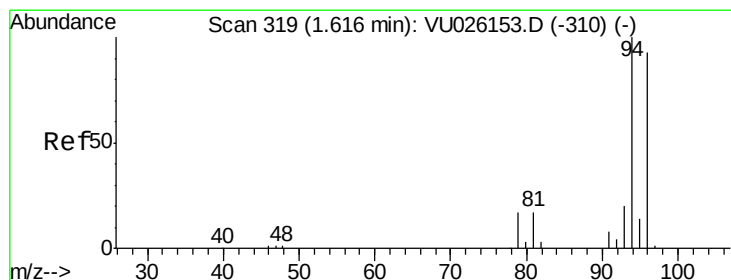
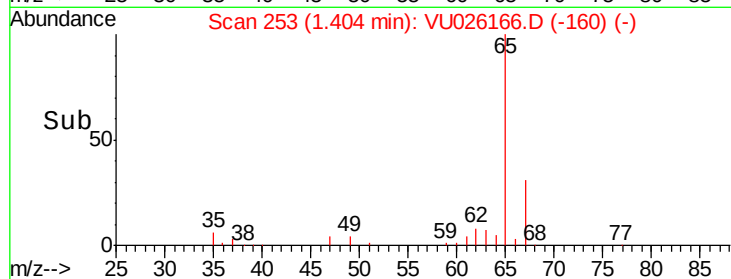
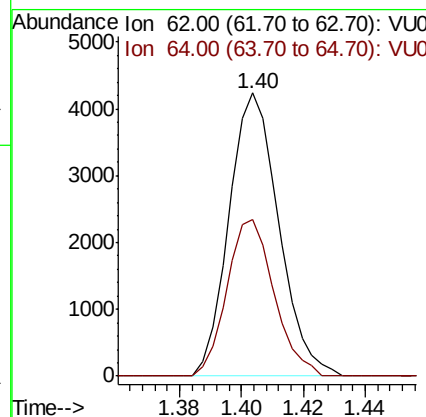
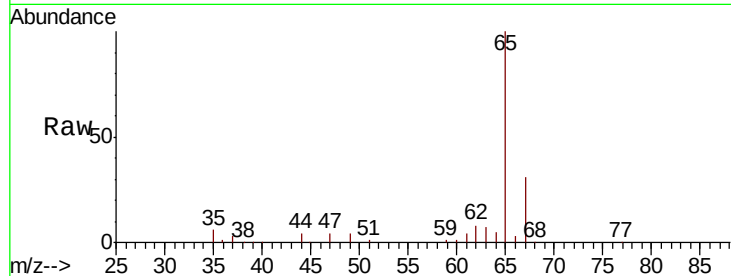
64 55.5 23.0 42.8#

Manual Integrations

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#6

Bromomethane

Concen: 2.38 ug/L

RT: 1.62 min Scan# 319

Delta R.T. -0.00 min

Lab File: VU026166.D

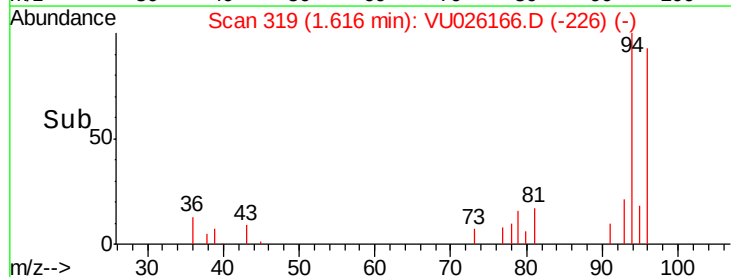
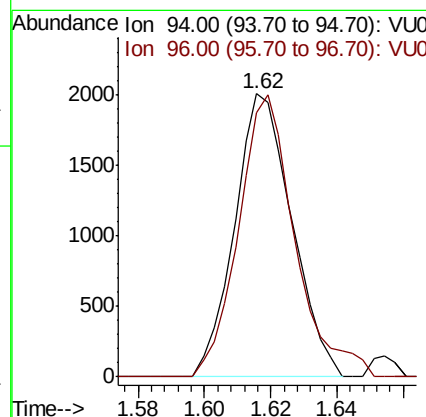
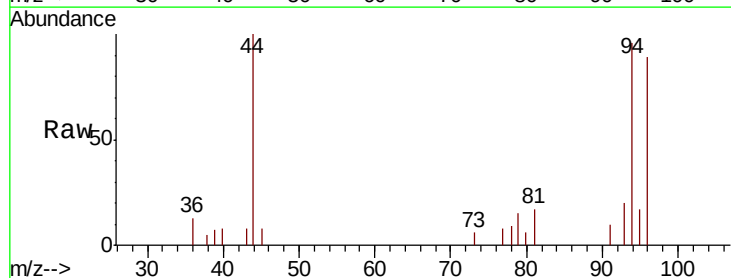
Acq: 15 Aug 2018 23:38

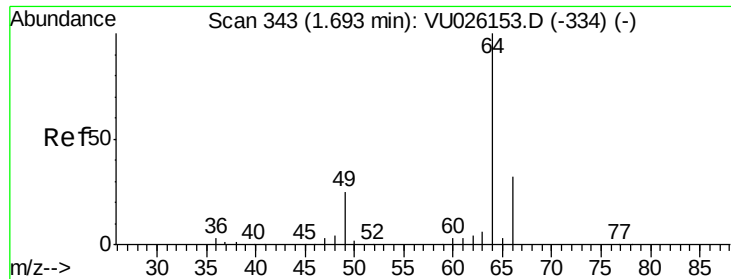
Tgt Ion: 94 Resp: 2406

Ion Ratio Lower Upper

94 100

96 93.2 65.9 122.5





#8

Chloroethane

Concen: 2.25 ug/L

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

Tot Ion: 64 Resp: 2649

Ion Ratio Lower Upper

64 100

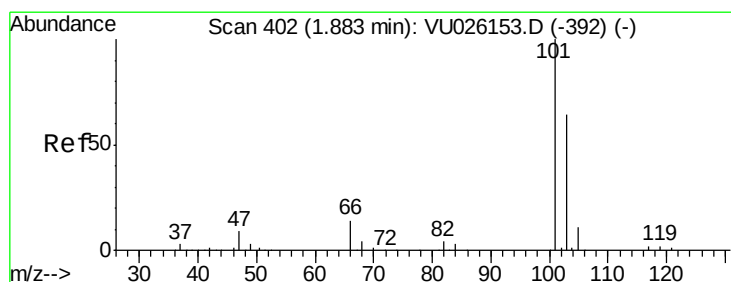
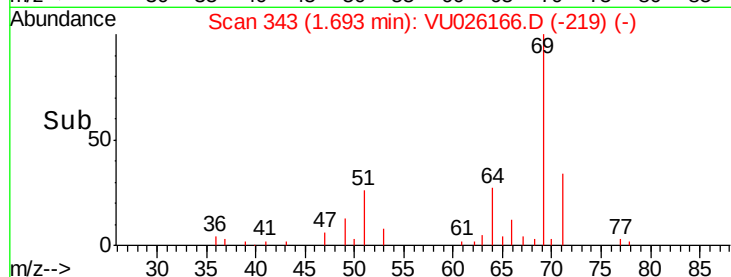
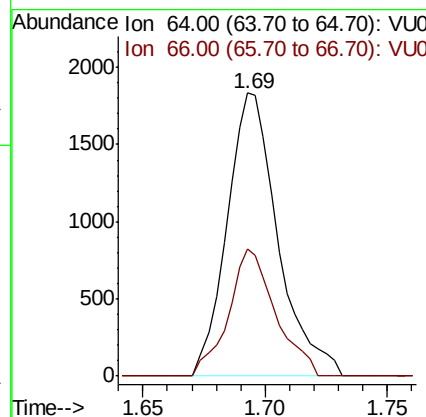
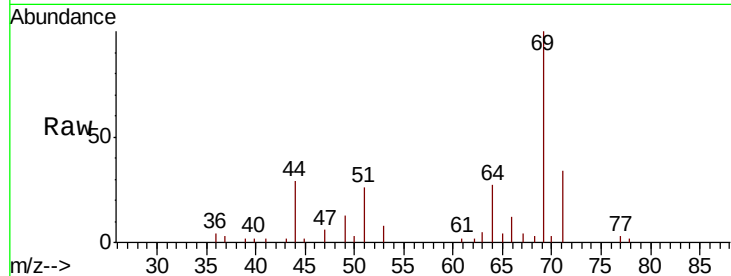
66 45.0 22.2 41.2#

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.25 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU026166.D

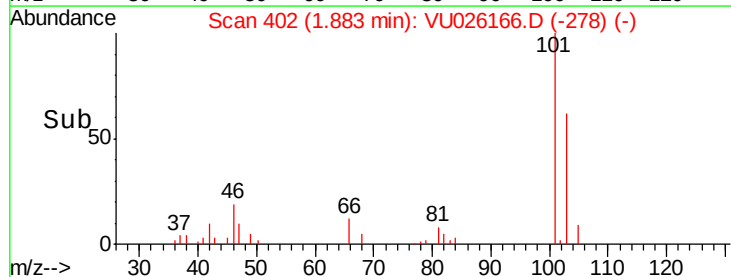
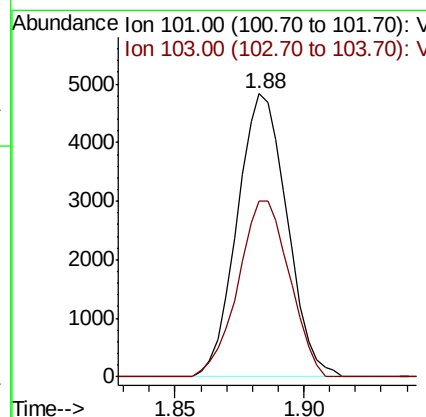
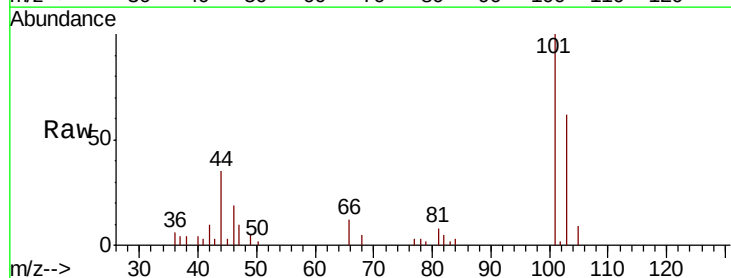
Acq: 15 Aug 2018 23:38

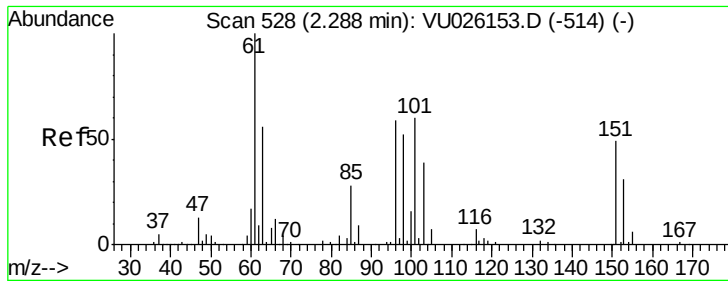
Tgt Ion:101 Resp: 6524

Ion Ratio Lower Upper

101 100

103 64.2 51.4 77.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.64 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

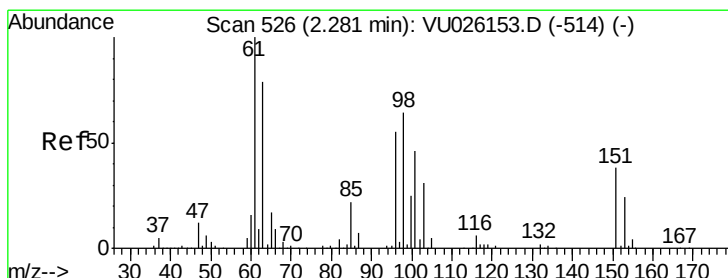
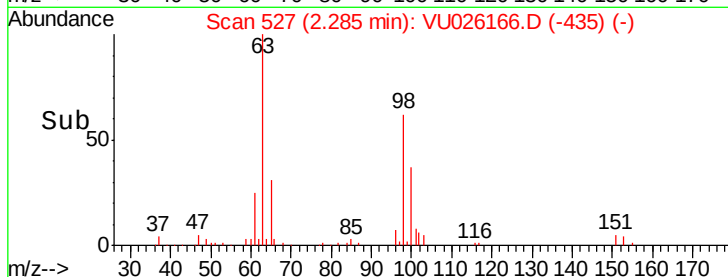
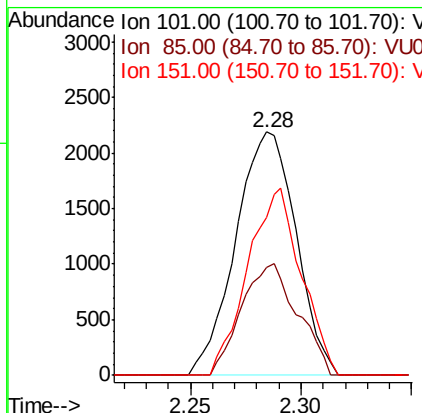
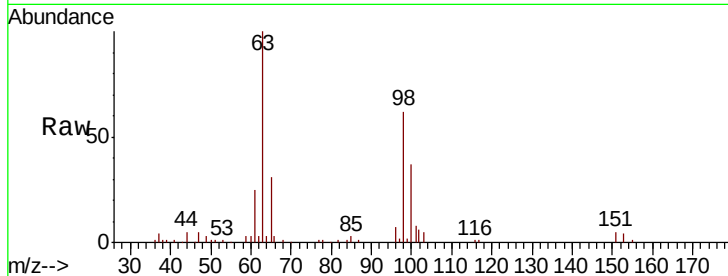
ClientSampled :

MDL04

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 101   | Resp: | 4152 |
| Ion Ratio | Lower | Upper |      |
| 101       | 100   |       |      |
| 85        | 42.7  | 36.6  | 55.0 |
| 151       | 67.8  | 63.8  | 95.8 |

Manual Integrations  
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#12

1,1-Dichloroethene

Concen: 2.61 ug/L

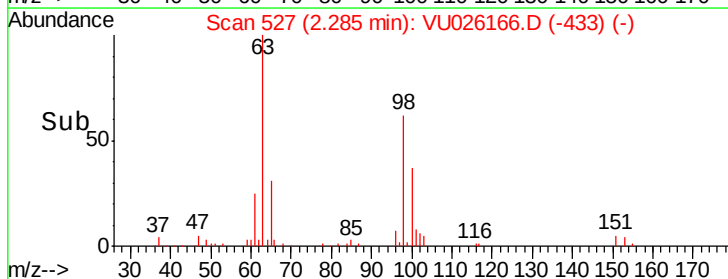
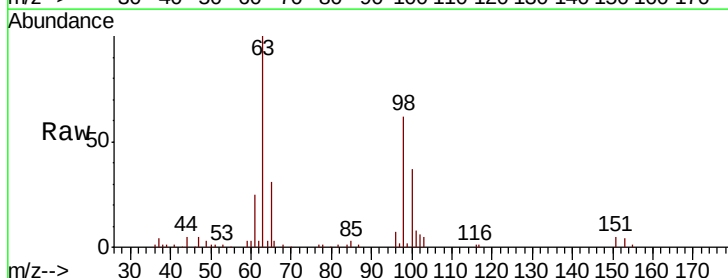
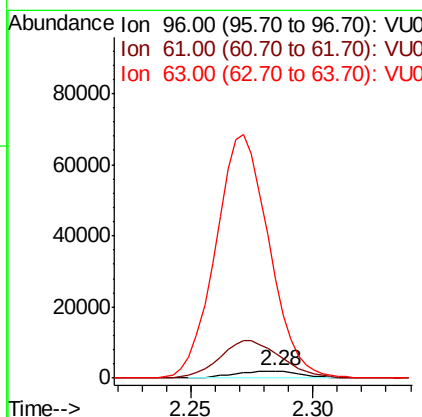
RT: 2.28 min Scan# 527

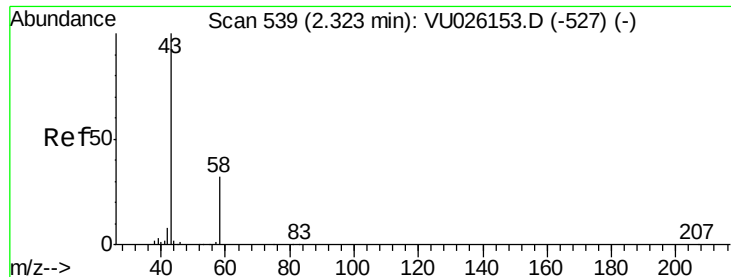
Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 3759   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 339.2  | 126.8 | 235.4# |
| 63        | 1366.7 | 97.0  | 180.2# |





#13

Acetone

Concen: 4.60 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 5174

Ion Ratio Lower Upper

43 100

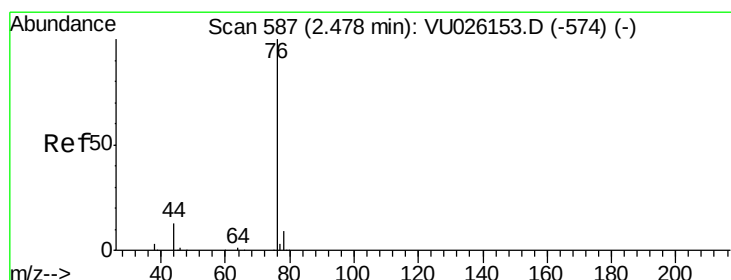
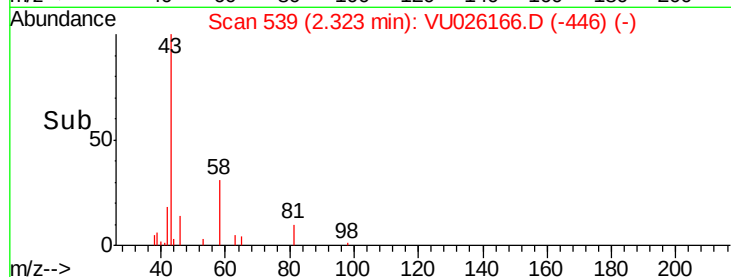
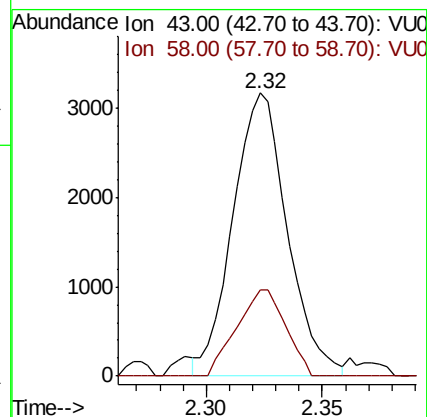
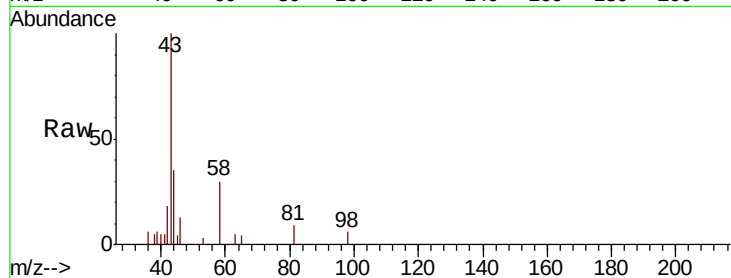
58 27.4 0.0 62.6

Manual Integrations

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MMDadoda

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#14

Carbon disulfide

Concen: 2.36 ug/L

RT: 2.47 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU026166.D

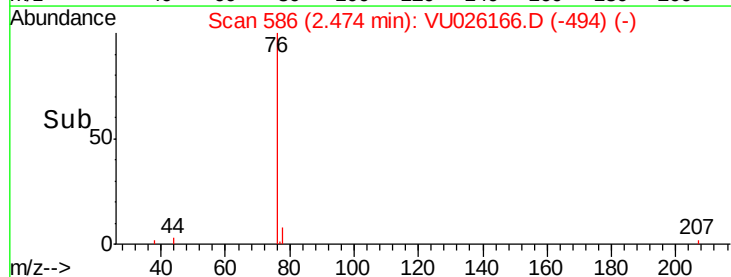
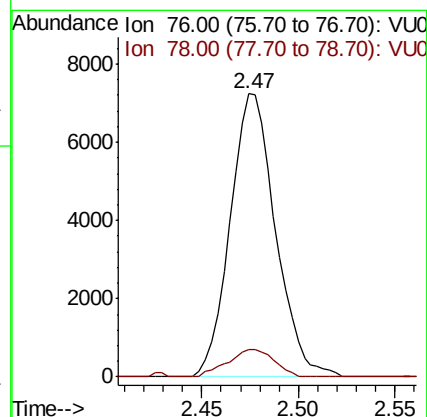
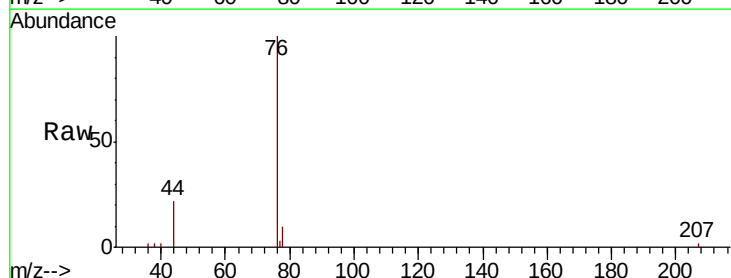
Acq: 15 Aug 2018 23:38

Tgt Ion: 76 Resp: 11771

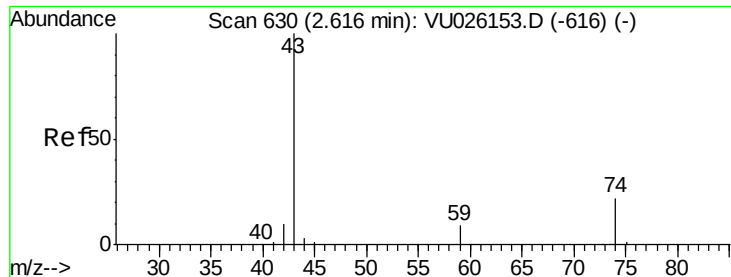
Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.2







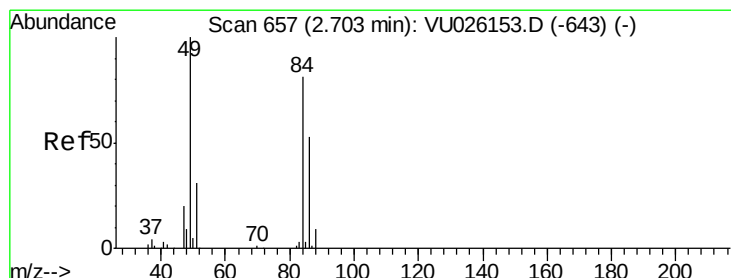
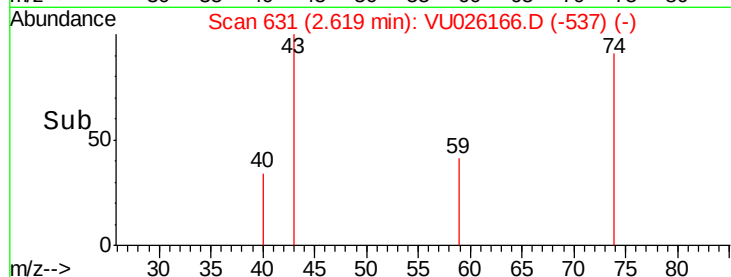
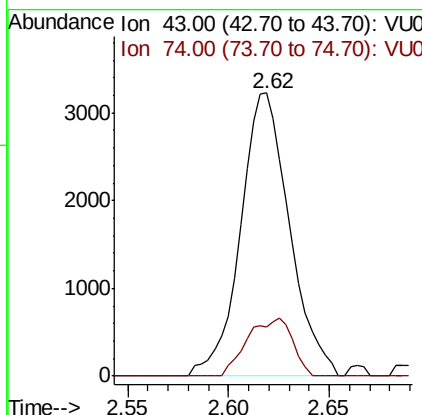
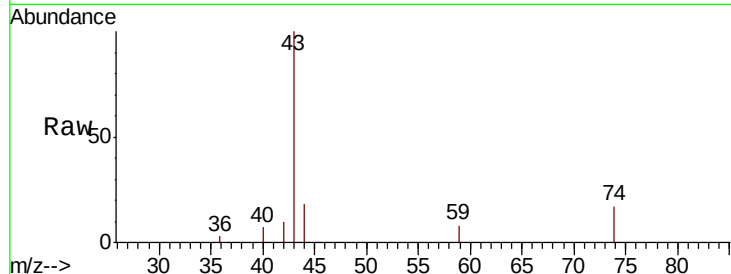
#15  
Methyl Acetate  
Concen: 2.81 ug/L  
RT: 2.62 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

Tot Ion: 43 Resp: 5485  
Ion Ratio Lower Upper  
43 100  
74 9.6 18.6 28.0#

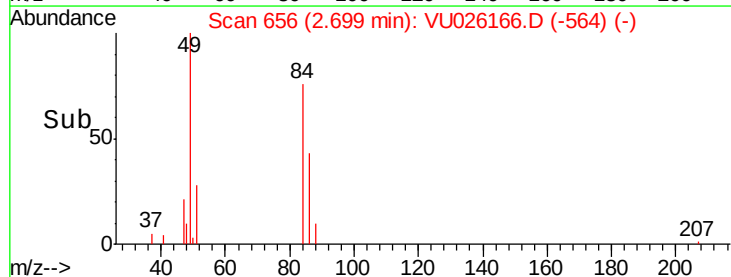
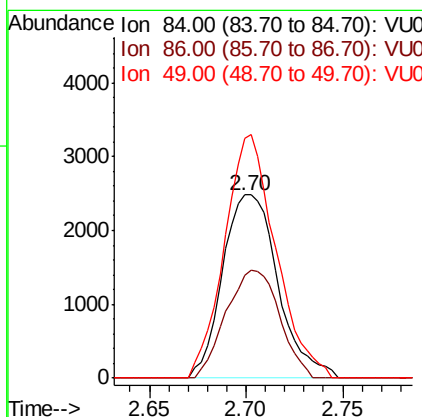
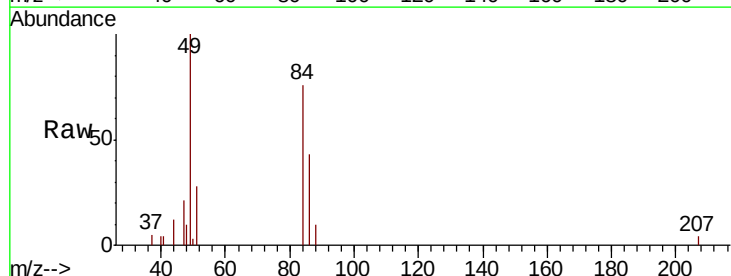
Manual Integrations  
APPROVED

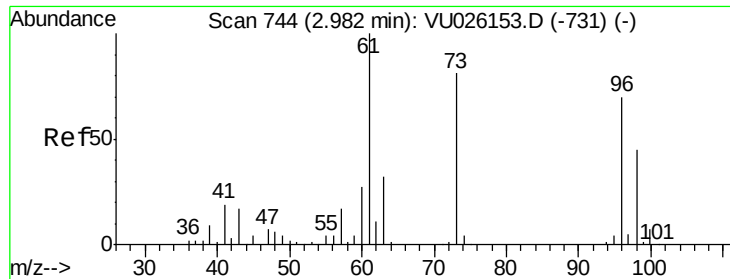
MMDadoda  
8/16/2018 4:20:29 PM



#16  
Methylene chloride  
Concen: 2.56 ug/L  
RT: 2.70 min Scan# 656  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Tgt Ion: 84 Resp: 4942  
Ion Ratio Lower Upper  
84 100  
86 56.0 44.0 81.6  
49 130.8 87.7 162.9





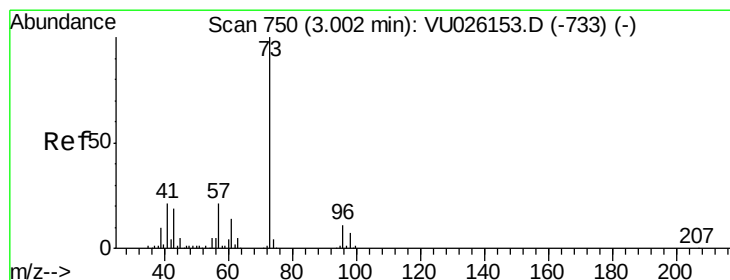
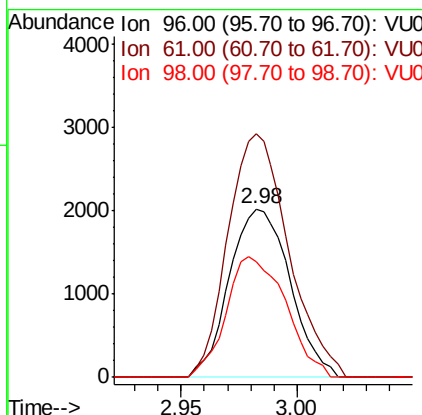
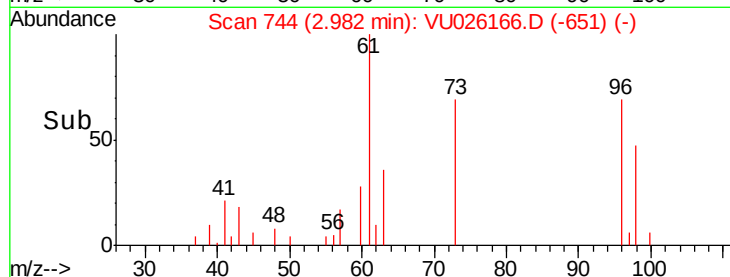
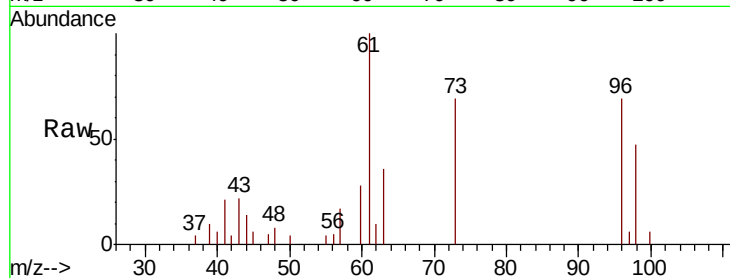
#17  
trans-1,2-Dichloroethene  
Concen: 2.15 ug/L  
RT: 2.98 min Scan# 744  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 144.7 | 96.7  | 179.5 |
| 98      | 68.5  | 43.6  | 81.0  |

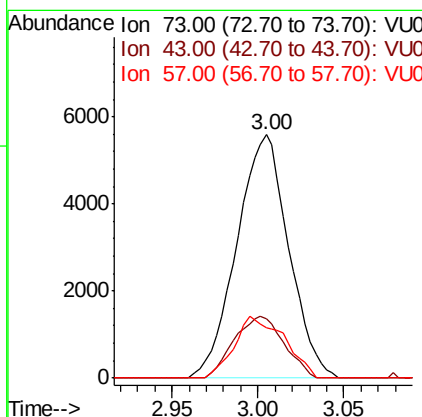
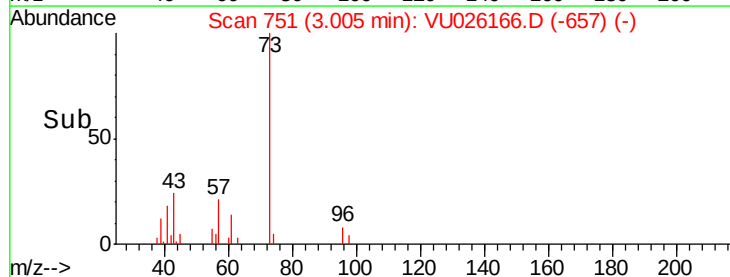
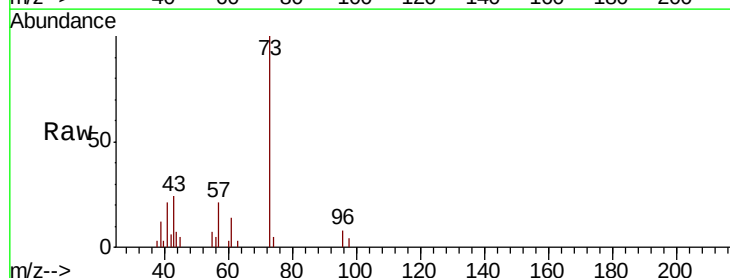
Manual Integrations  
APPROVED

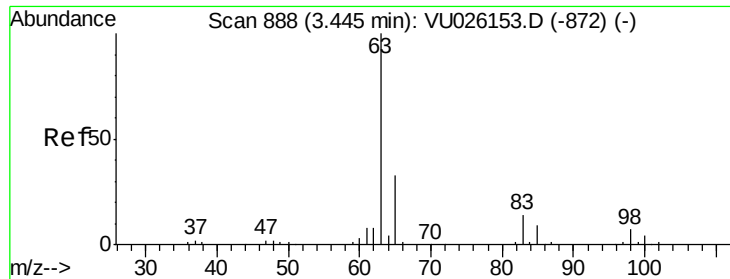
MMDadoda  
8/16/2018 4:20:29 PM



#18  
Methyl tert-butyl Ether  
Concen: 2.15 ug/L  
RT: 3.00 min Scan# 751  
Delta R.T. 0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 24.4  | 16.2  | 24.4# |
| 57      | 24.5  | 18.2  | 27.2  |





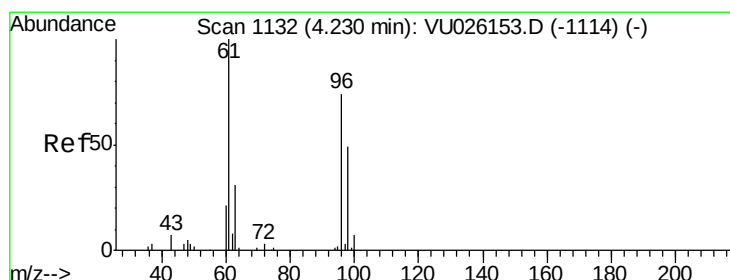
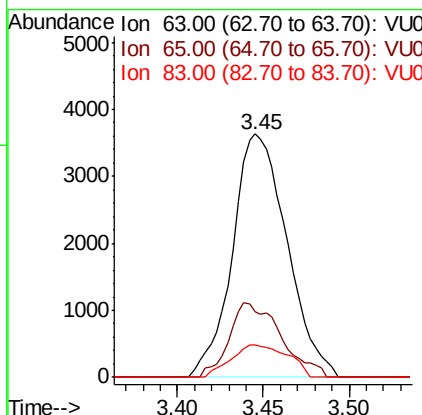
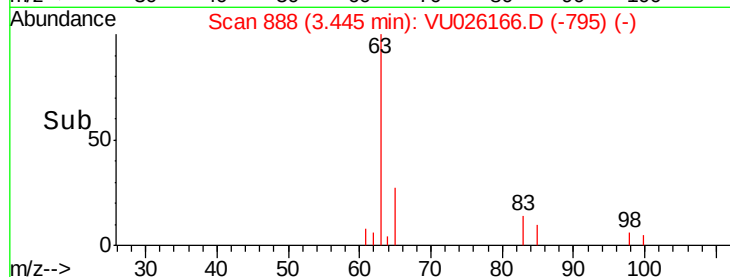
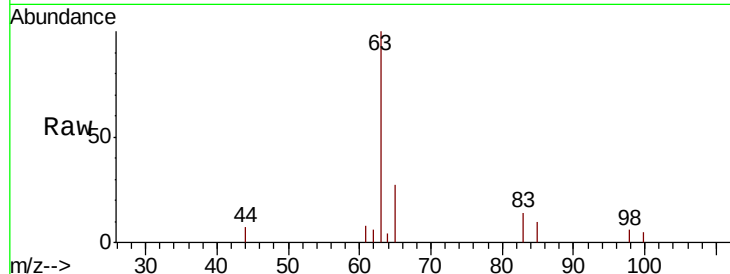
#19  
 1,1-Dichloroethane  
 Concen: 2.44 ug/L  
 RT: 3.45 min Scan# 888  
 Delta R.T. -0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 27.1  | 22.1  | 41.1  |
| 83      | 13.6  | 9.4   | 17.4  |

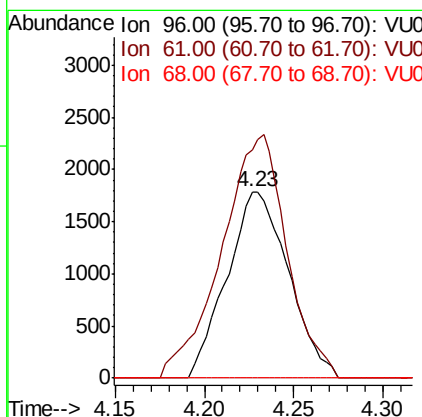
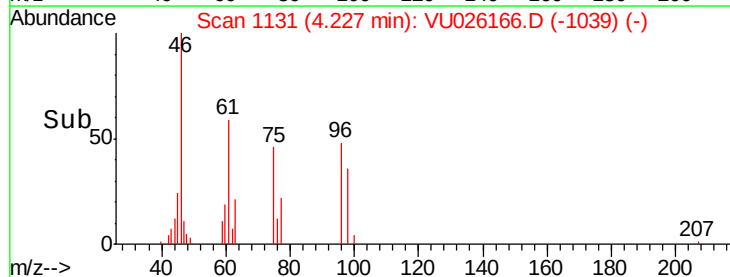
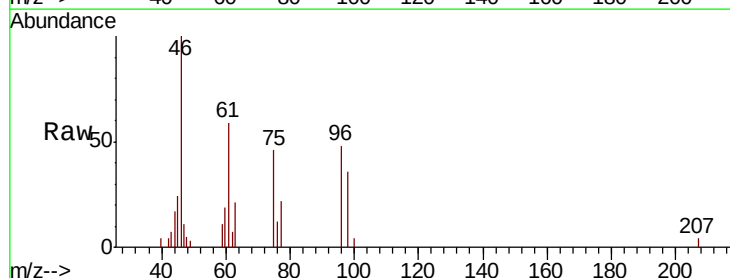
Manual Integrations  
 APPROVED

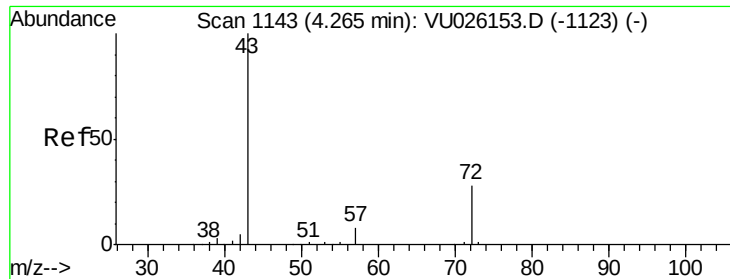
MMDadoda  
 8/16/2018 4:20:29 PM



#20  
 cis-1,2-Dichloroethene  
 Concen: 2.25 ug/L  
 RT: 4.23 min Scan# 1131  
 Delta R.T. -0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 122.4 | 88.6  | 164.6 |
| 68      | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 4.88 ug/L m

RT: 4.27 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampled :

MDL04

Tot Ion: 43 Resp: 6837

Ion Ratio Lower Upper

43 100

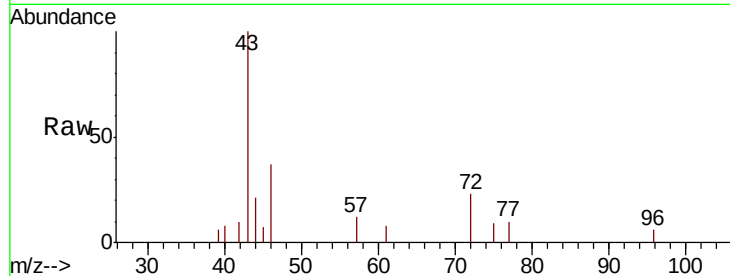
72 0.7 13.4 40.1#

Manual Integrations

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MMDadoda

8/16/2018 4:20:29 PM



Abundance Ion 43.00 (42.70 to 43.70): VU026153.D (-1123) (-)

Ion 72.00 (71.70 to 72.70): VU026153.D (-1123) (-)

4.27

2500

2000

1500

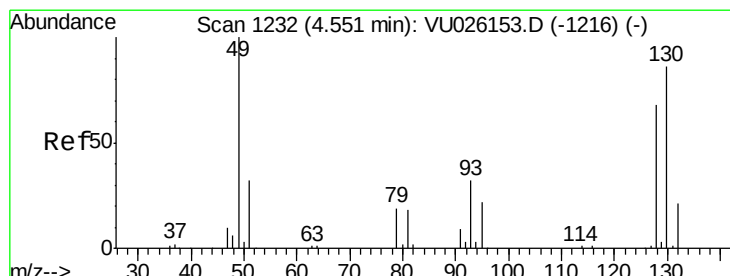
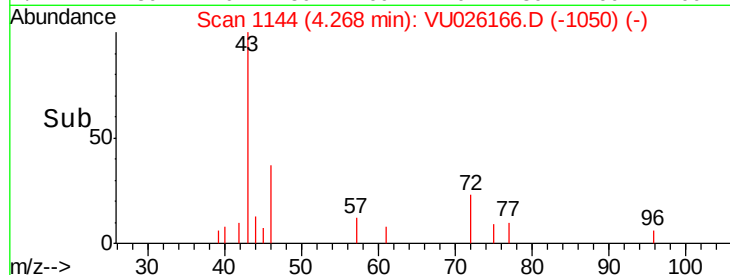
1000

500

0

4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 2.36 ug/L m

RT: 4.56 min Scan# 1235

Delta R.T. 0.01 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Tgt Ion: 128 Resp: 2447

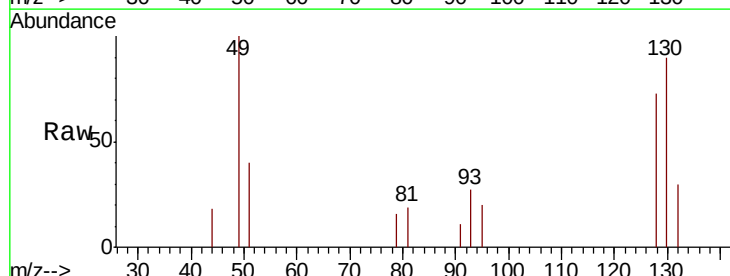
Ion Ratio Lower Upper

128 100

49 136.7 101.3 188.1

130 123.4 86.4 160.4

51 54.7 38.1 57.1



Abundance Ion 128.00 (127.70 to 128.70): VU026153.D (-1216) (-)

Ion 49.00 (48.70 to 49.70): VU026153.D (-1216) (-)

Ion 130.00 (129.70 to 130.70): VU026153.D (-1216) (-)

Ion 51.00 (50.70 to 51.70): VU026153.D (-1216) (-)

12000

10000

8000

6000

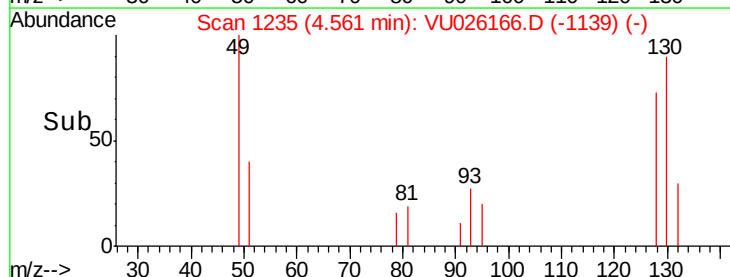
4000

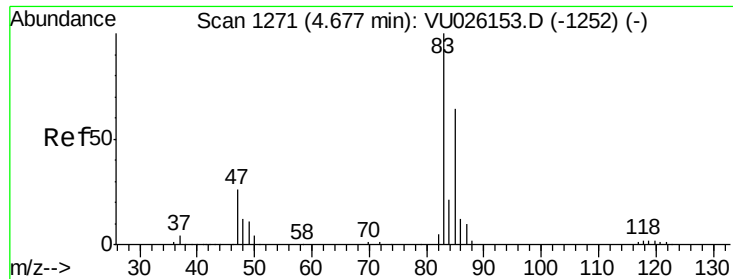
2000

0

4.50 4.55 4.60

Time-->





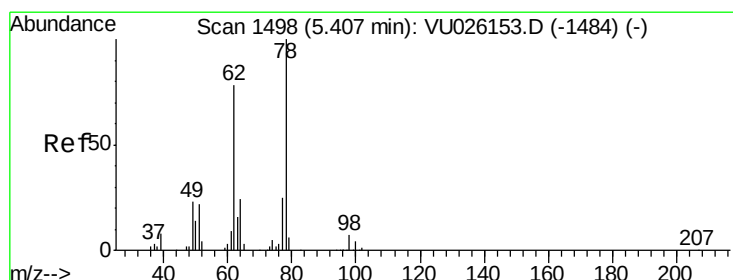
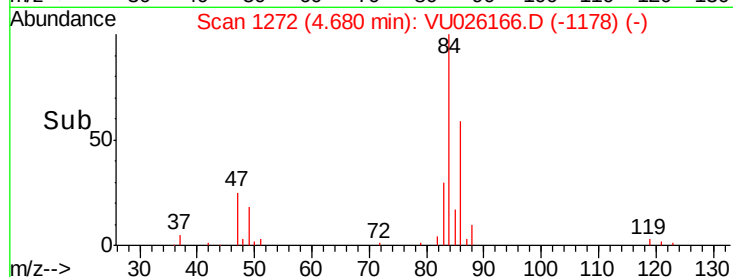
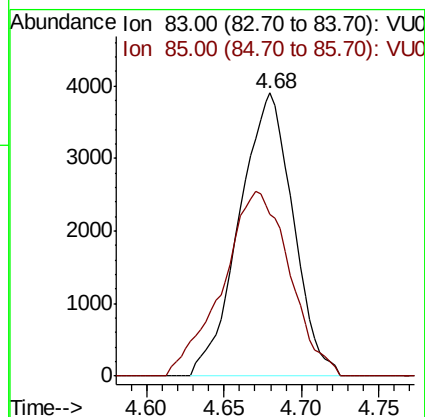
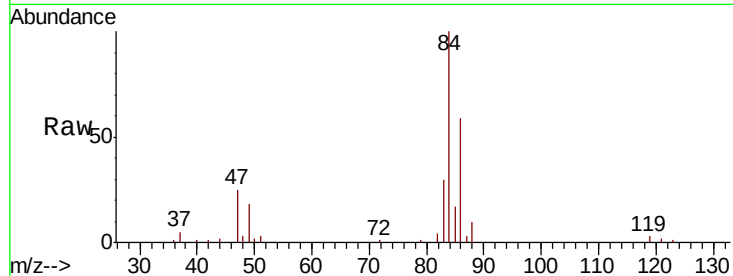
#25  
Chloroform  
Concen: 2.73 ug/L  
RT: 4.68 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Tot Ion: 83 Resp: 9430  
Ion Ratio Lower Upper  
83 100  
85 57.3 46.3 86.1

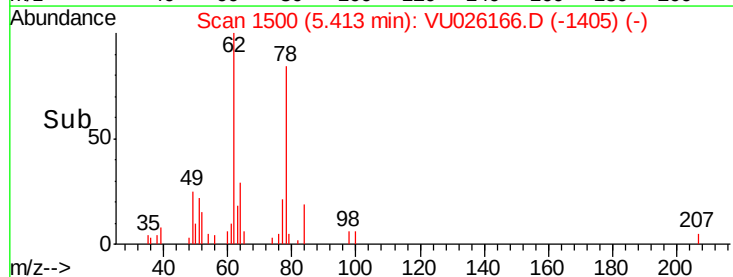
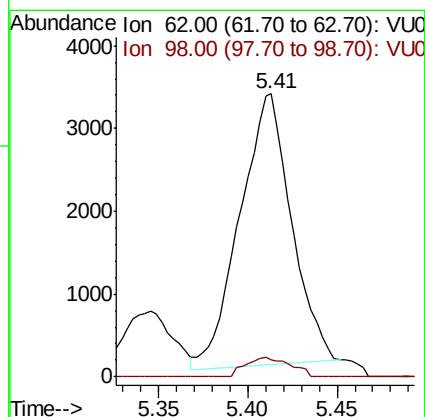
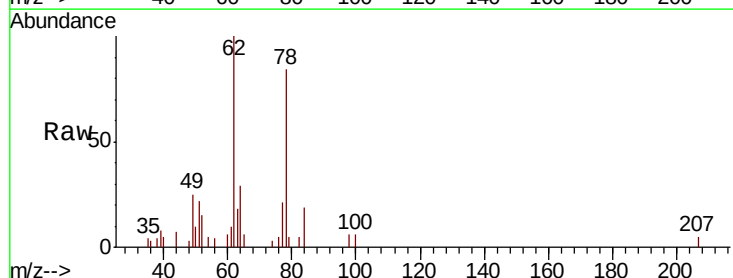
Manual Integrations  
APPROVED

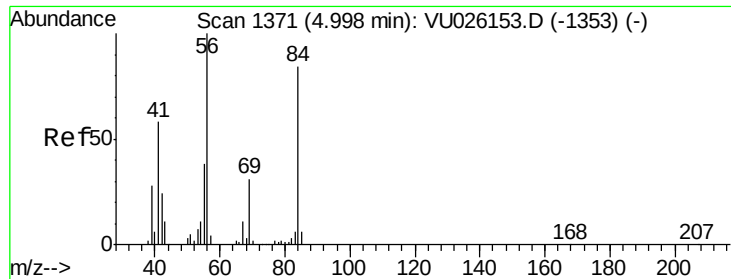
MMDadoda  
8/16/2018 4:20:29 PM



#27  
1,2-Dichloroethane  
Concen: 2.37 ug/L  
RT: 5.41 min Scan# 1500  
Delta R.T. 0.01 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Tgt Ion: 62 Resp: 6609  
Ion Ratio Lower Upper  
62 100  
98 6.1 7.0 10.4#





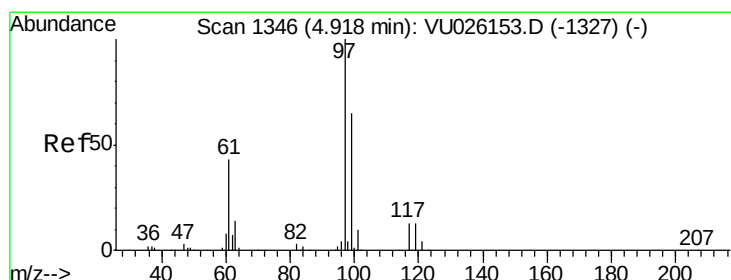
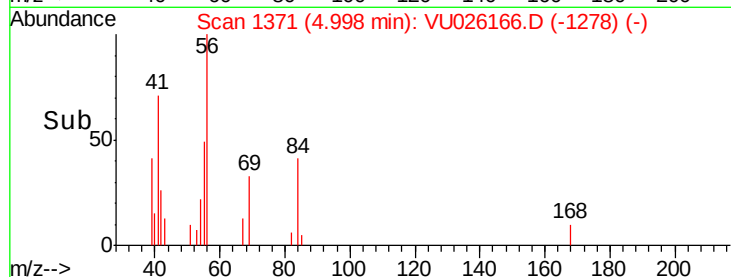
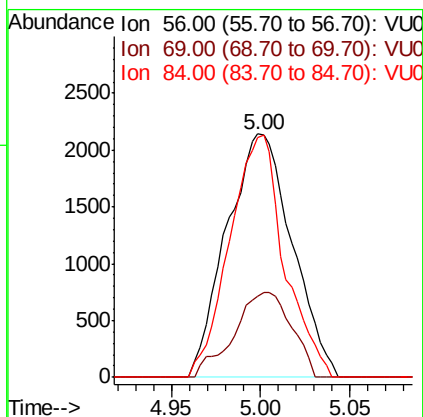
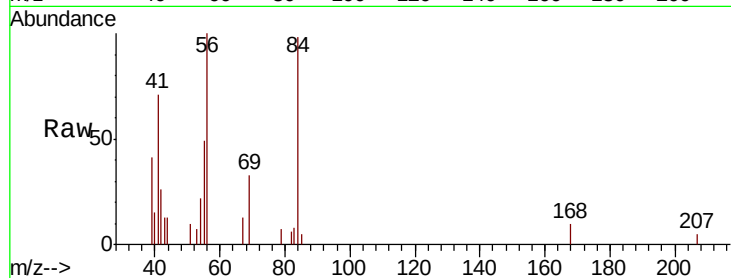
#29  
Cyclohexane  
Concen: 2.11 ug/L  
RT: 5.00 min Scan# 1371  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 29.1  | 24.1  | 36.1  |
| 84      | 83.1  | 68.6  | 102.8 |

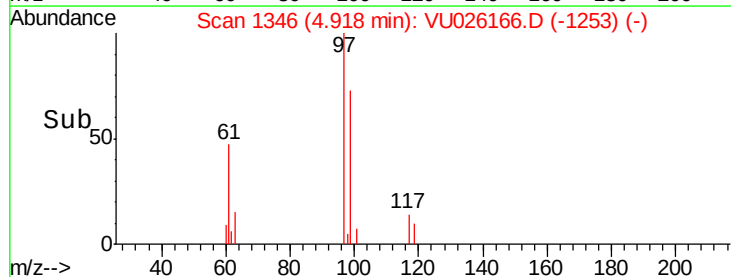
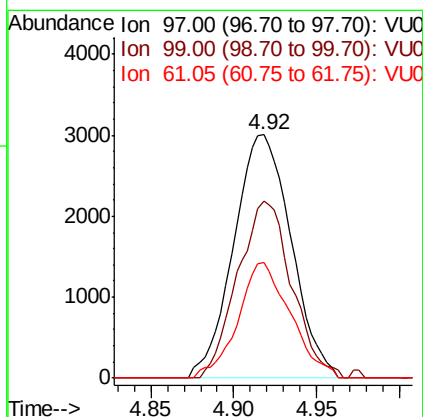
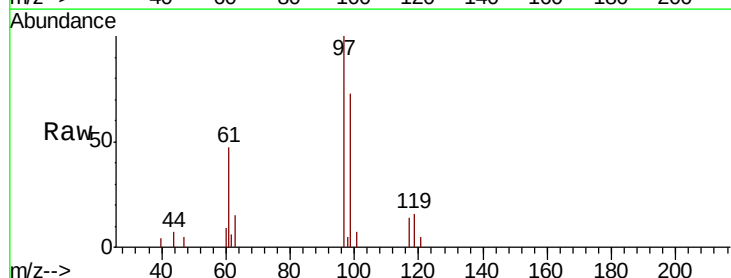
Manual Integrations  
APPROVED

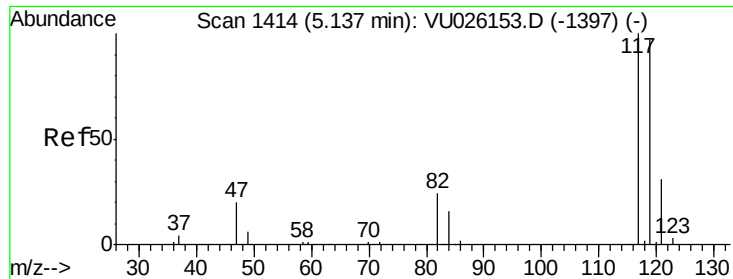
MMDadoda  
8/16/2018 4:20:29 PM



#30  
1,1,1-Trichloroethane  
Concen: 2.33 ug/L  
RT: 4.92 min Scan# 1346  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 68.9  | 52.2  | 78.2  |
| 61      | 43.4  | 35.4  | 53.0  |





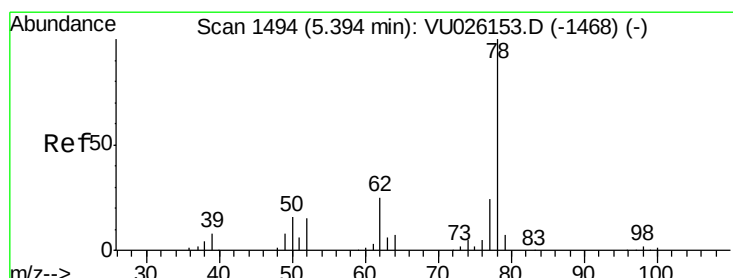
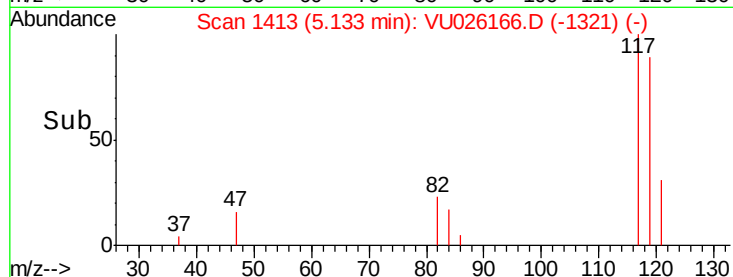
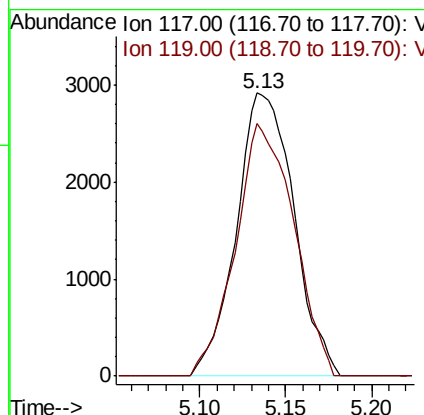
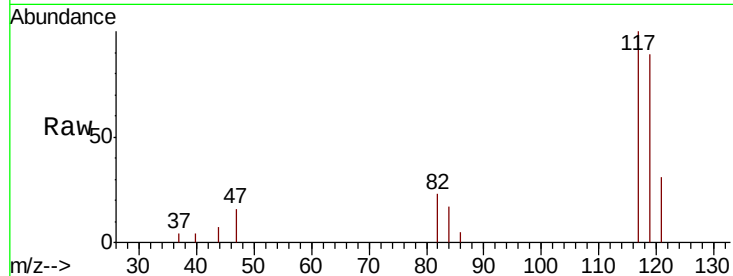
#31  
Carbon tetrachloride  
Concen: 2.42 ug/L  
RT: 5.13 min Scan# 1413  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Tot Ion:117 Resp: 6773  
Ion Ratio Lower Upper  
117 100  
119 90.1 77.4 116.2

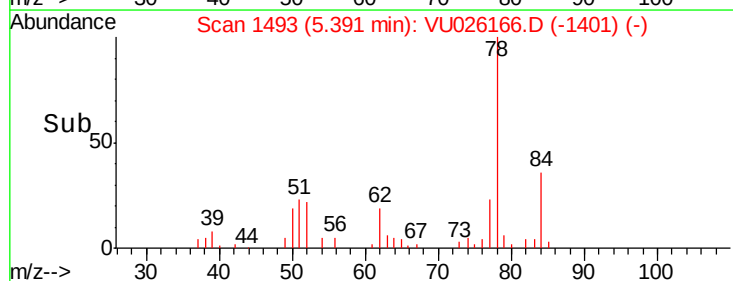
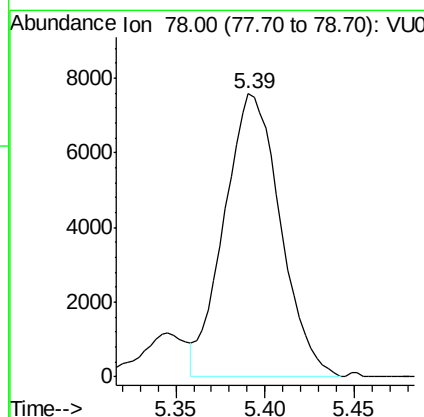
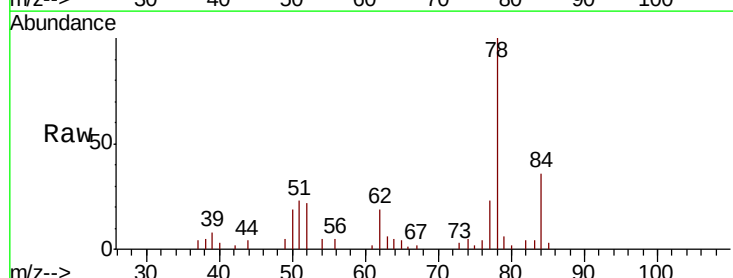
Manual Integrations  
APPROVED

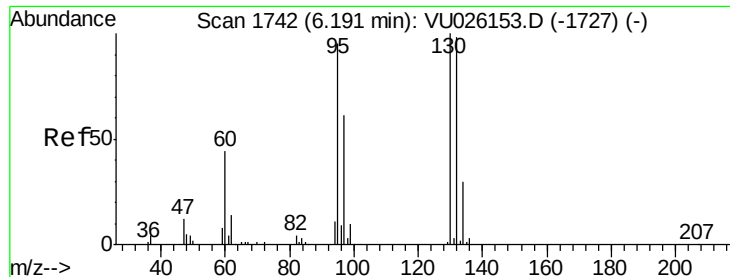
MMDadoda  
8/16/2018 4:20:29 PM



#33  
Benzene  
Concen: 2.37 ug/L  
RT: 5.39 min Scan# 1493  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Tgt Ion: 78 Resp: 16639





#34

Trichloroethene

Concen: 2.30 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

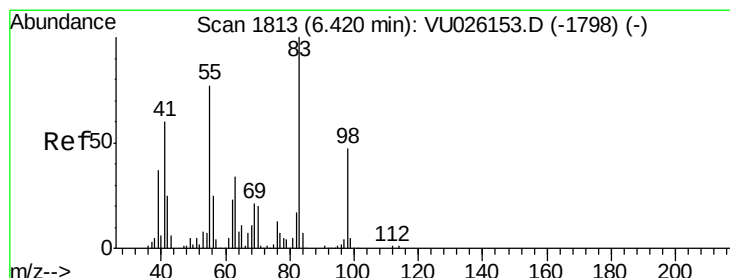
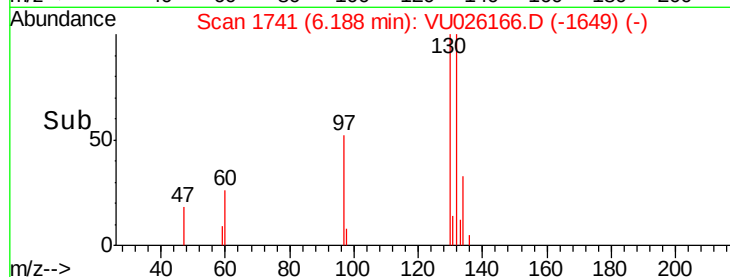
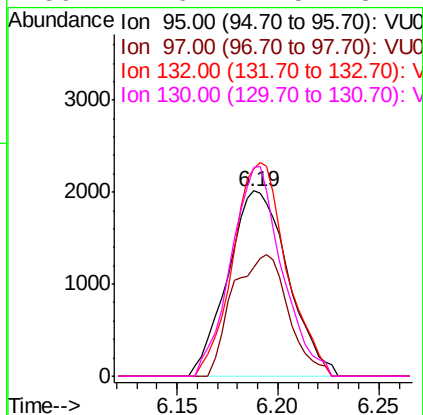
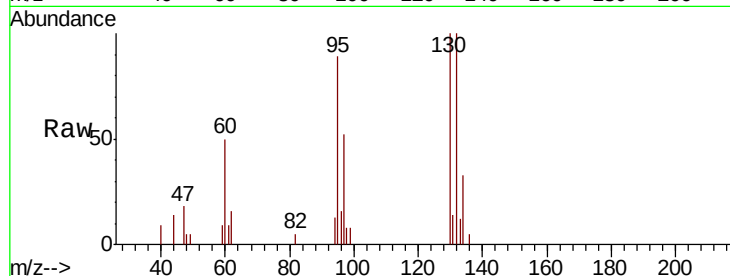
ClientSampled :

MDL04

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 4200  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 58.5  | 45.7  | 84.9  |
| 132      | 112.1 | 68.8  | 127.8 |
| 130      | 112.6 | 71.5  | 132.7 |

Manual Integrations  
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#35

Methylcyclohexane

Concen: 2.14 ug/L

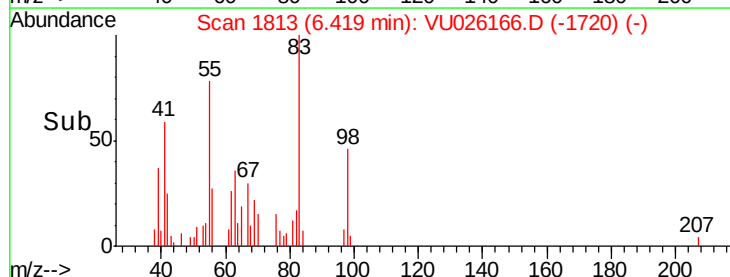
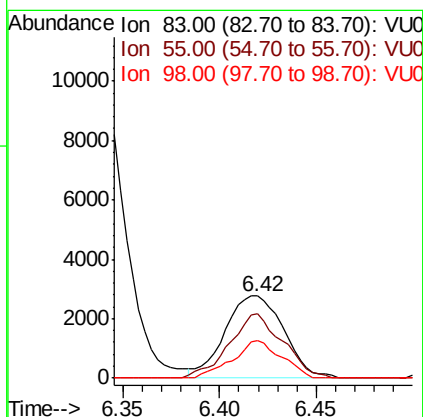
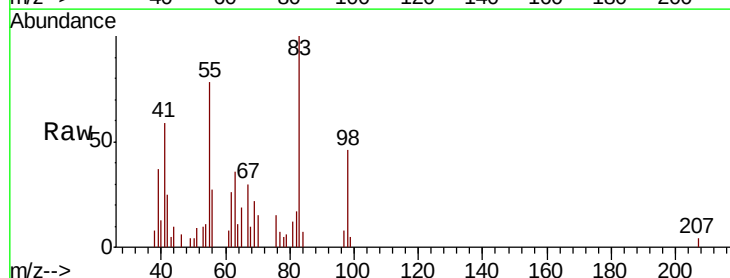
RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

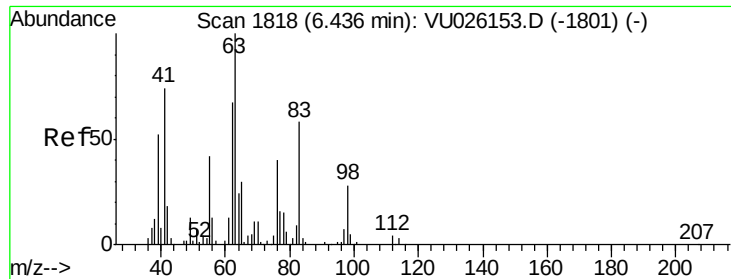
Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 5866  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 70.6  | 61.0  | 91.6  |
| 98       | 37.8  | 37.6  | 56.4  |







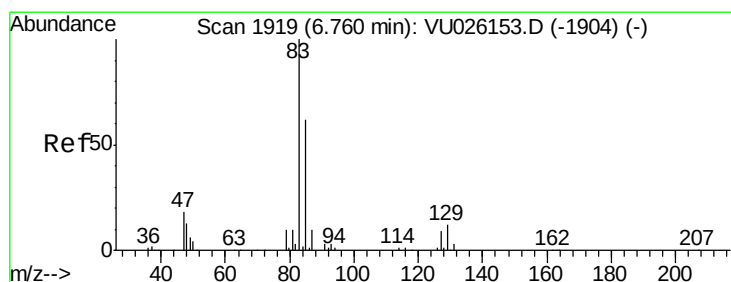
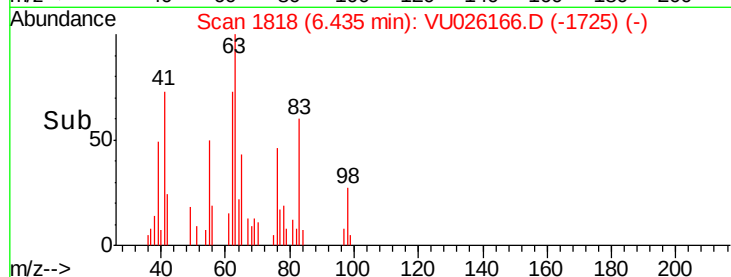
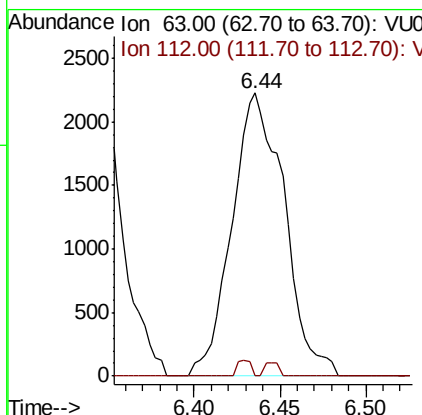
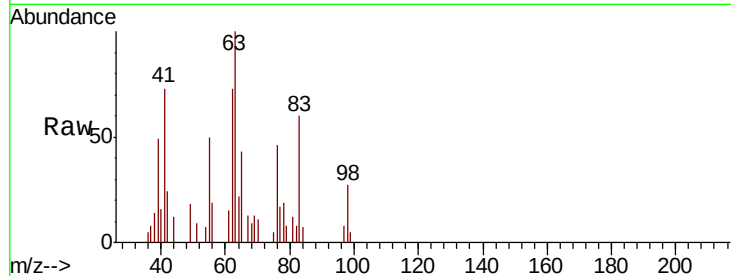
#37  
 1,2-Dichloropropane  
 Concen: 2.41 ug/L  
 RT: 6.44 min Scan# 1818  
 Delta R.T. -0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

Tot Ion: 63 Resp: 4726  
 Ion Ratio Lower Upper  
 63 100  
 112 1.5 3.5 5.3#

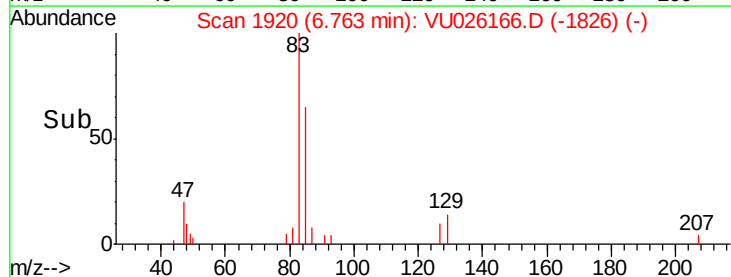
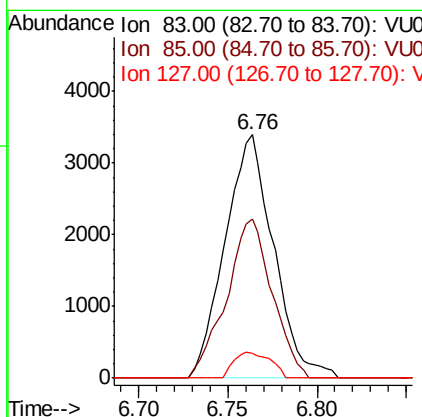
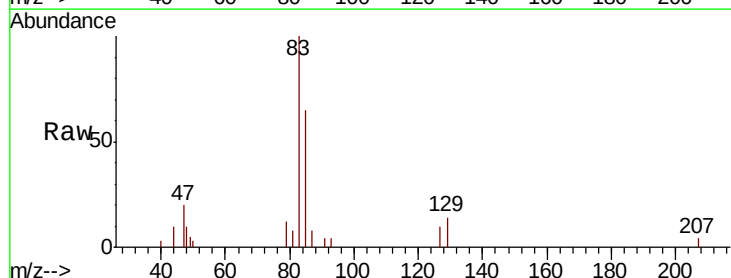
Manual Integrations  
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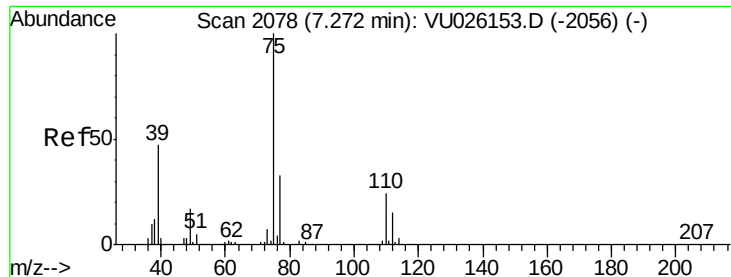
MMDadoda  
 8/16/2018 4:20:29 PM



#38  
 Bromodichloromethane  
 Concen: 2.48 ug/L  
 RT: 6.76 min Scan# 1920  
 Delta R.T. 0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Tgt Ion: 83 Resp: 6429  
 Ion Ratio Lower Upper  
 83 100  
 85 65.3 46.0 85.4  
 127 10.1 7.5 11.3





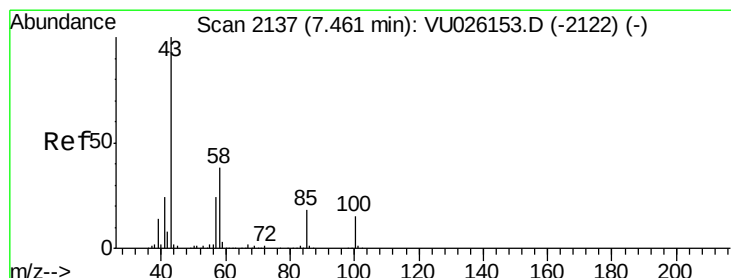
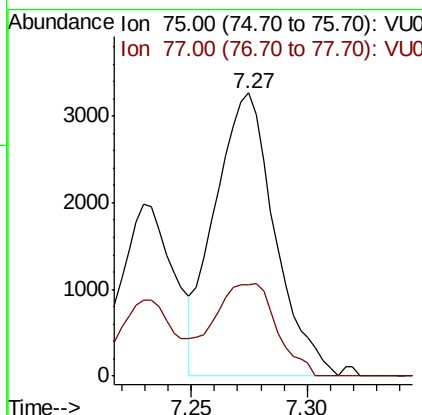
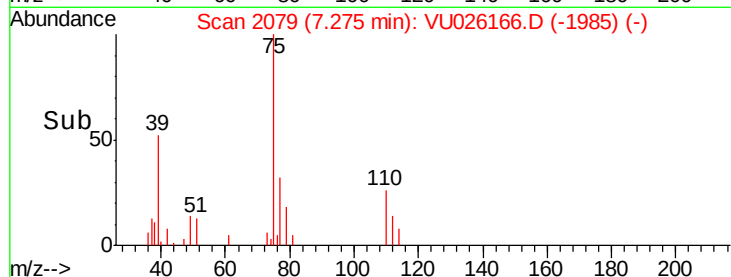
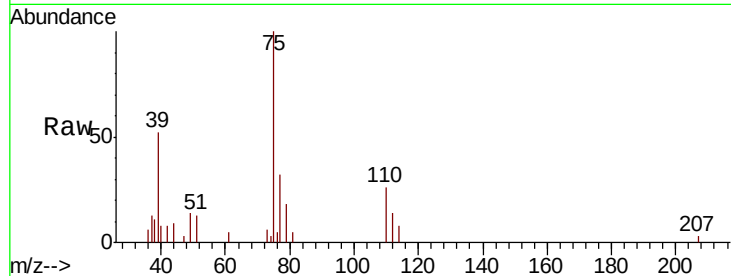
#39  
 cis-1,3-Dichloropropene  
 Concen: 2.02 ug/L  
 RT: 7.27 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

Tot Ion: 75 Resp: 5863  
 Ion Ratio Lower Upper  
 75 100  
 77 32.5 22.2 41.2

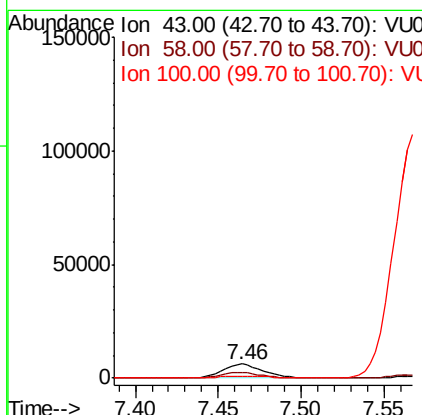
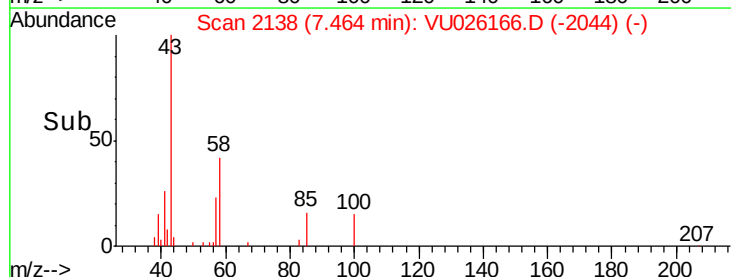
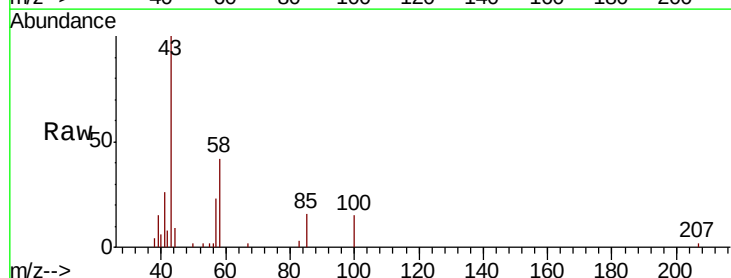
Manual Integrations  
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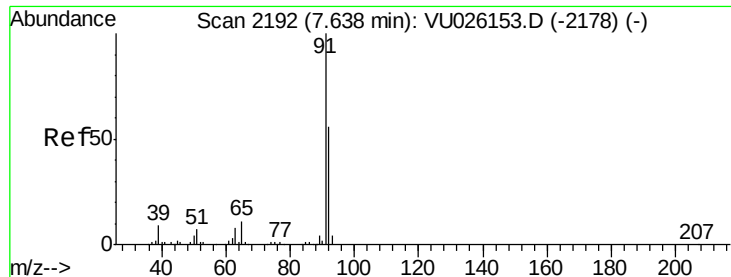
MMDadoda  
 8/16/2018 4:20:29 PM



#40  
 4-Methyl-2-pentanone  
 Concen: 4.37 ug/L  
 RT: 7.46 min Scan# 2138  
 Delta R.T. 0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Tgt Ion: 43 Resp: 10618  
 Ion Ratio Lower Upper  
 43 100  
 58 39.8 31.8 47.8  
 100 15.4 12.2 18.2





#42

Toluene

Concen: 2.18 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 16232

Ion Ratio Lower Upper

91 100

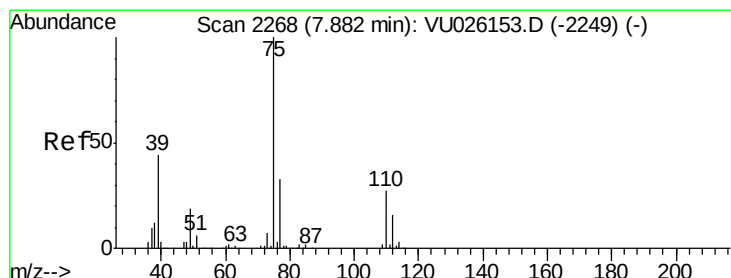
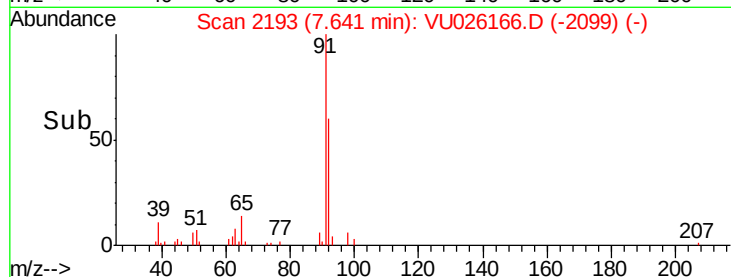
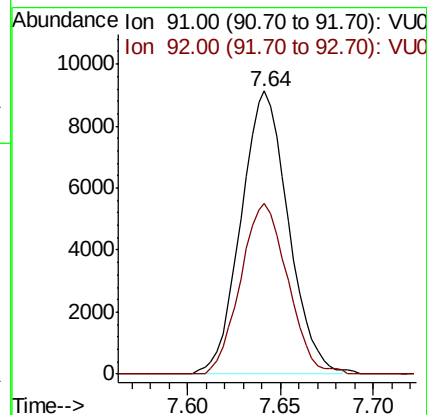
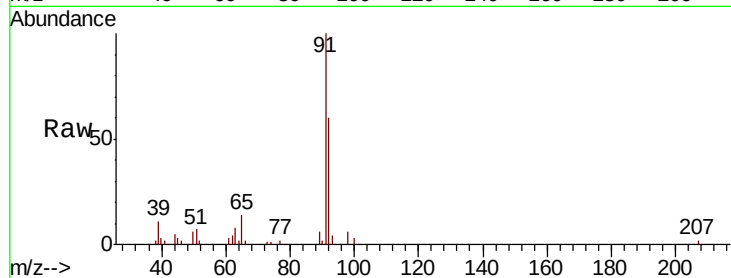
92 60.4 40.0 74.4

Manual Integrations

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MMDadoda

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#44

trans-1,3-Dichloropropene

Concen: 1.99 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026166.D

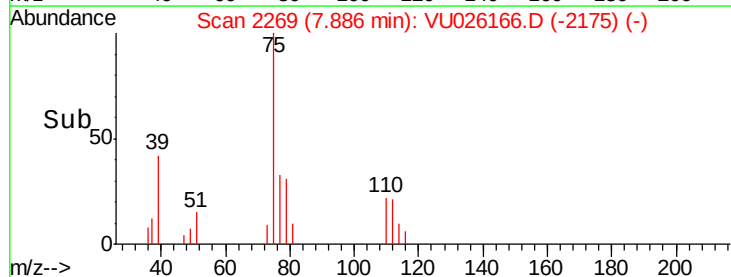
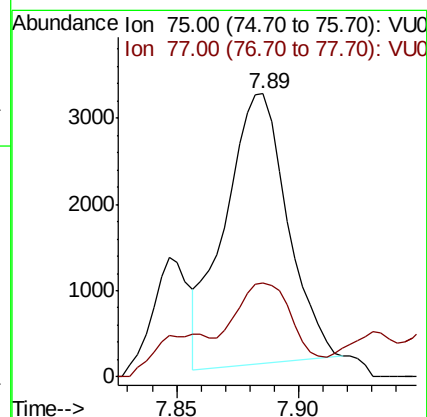
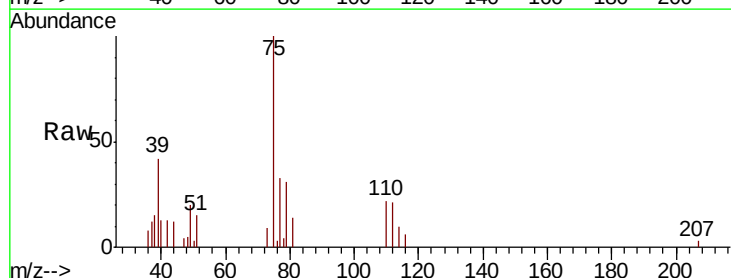
Acq: 15 Aug 2018 23:38

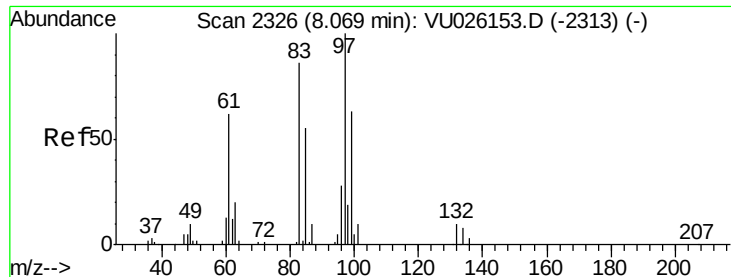
Tgt Ion: 75 Resp: 5583

Ion Ratio Lower Upper

75 100

77 33.1 22.0 41.0





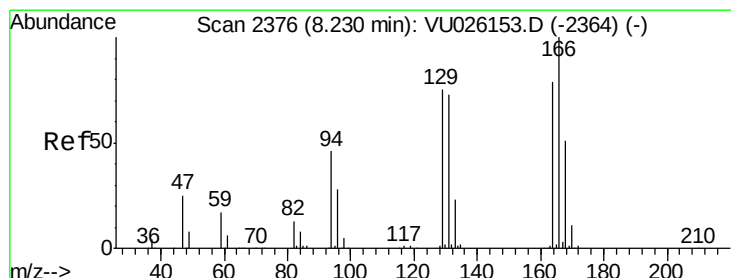
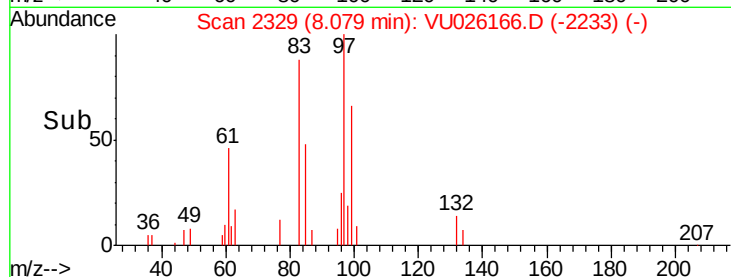
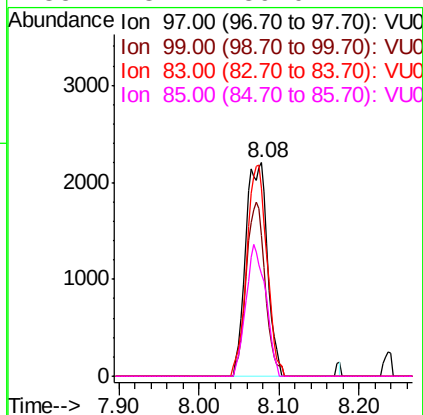
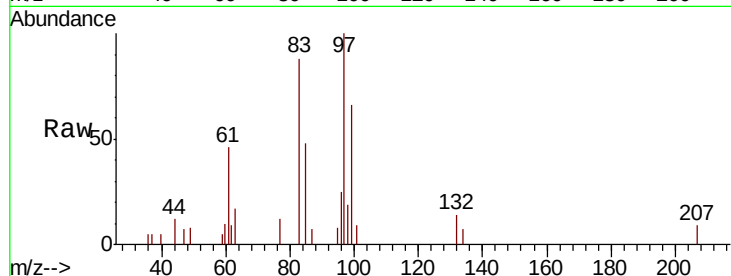
#45  
1,1,2-Trichloroethane  
Concen: 2.26 ug/L m  
RT: 8.08 min Scan# 2329  
Delta R.T. 0.01 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 4203  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 66.2  | 43.3  | 80.5  |
| 83       | 88.2  | 58.4  | 108.6 |
| 85       | 48.2  | 39.0  | 72.4  |

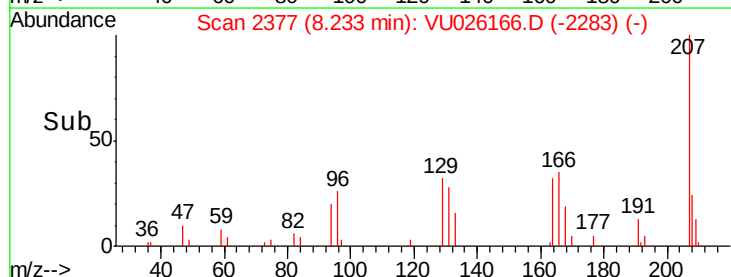
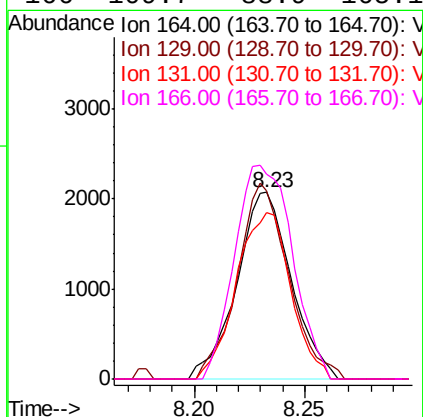
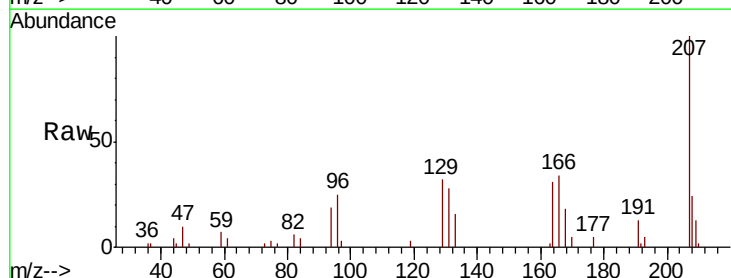
Manual Integrations  
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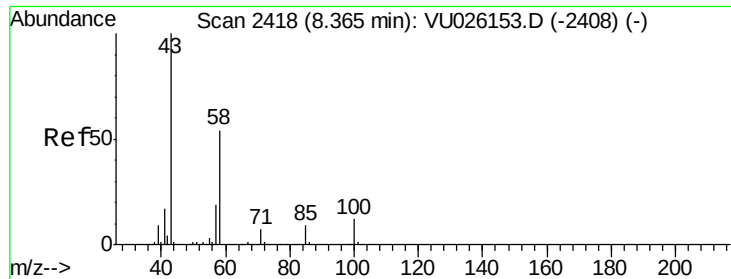
MMDadoda  
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#46  
Tetrachloroethene  
Concen: 2.26 ug/L  
RT: 8.23 min Scan# 2377  
Delta R.T. 0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 3567  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 101.1 | 65.7  | 121.9 |
| 131      | 89.1  | 62.0  | 115.2 |
| 166      | 109.7 | 88.9  | 165.1 |





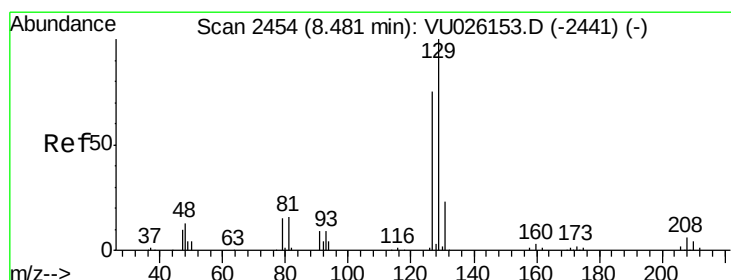
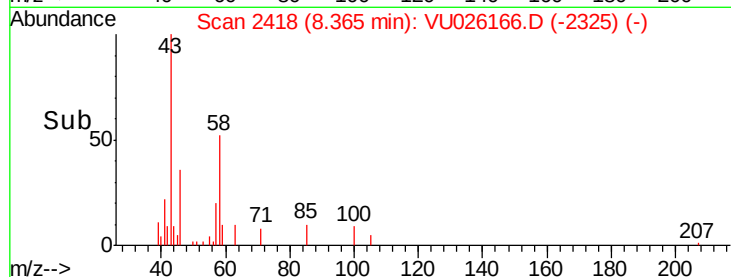
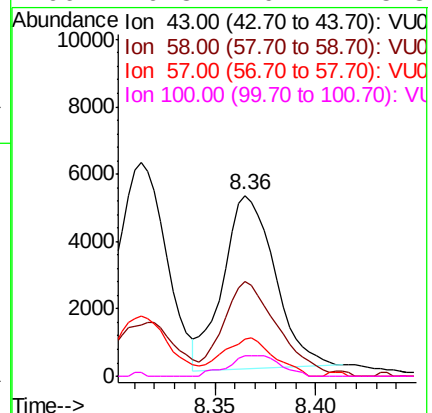
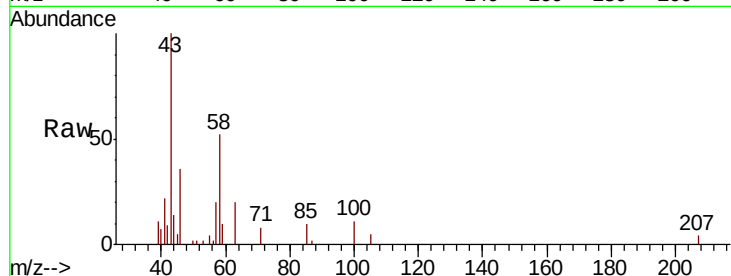
#48  
2-Hexanone  
Concen: 4.87 ug/L  
RT: 8.36 min Scan# 2418  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 56.6  | 42.9  | 64.3  |
| 57      | 22.0  | 15.1  | 22.7  |
| 100     | 10.8  | 9.2   | 13.8  |

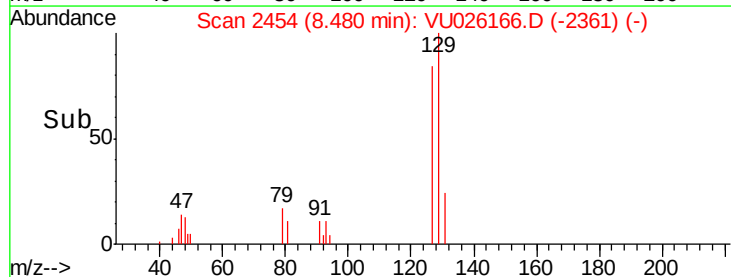
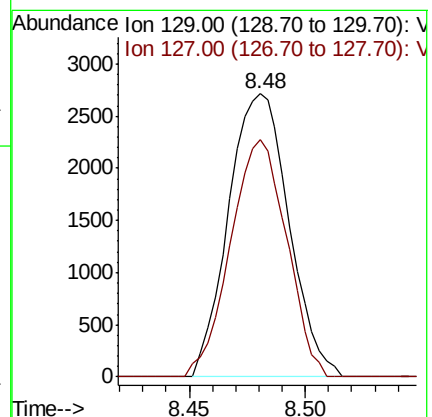
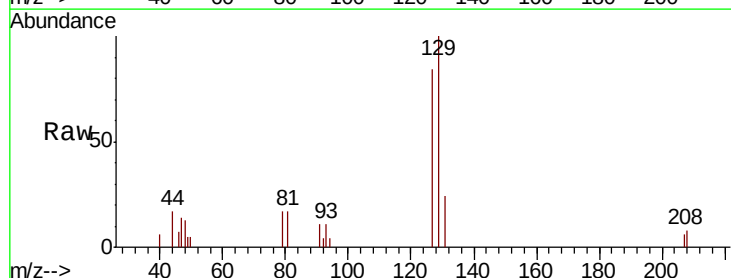
Manual Integrations  
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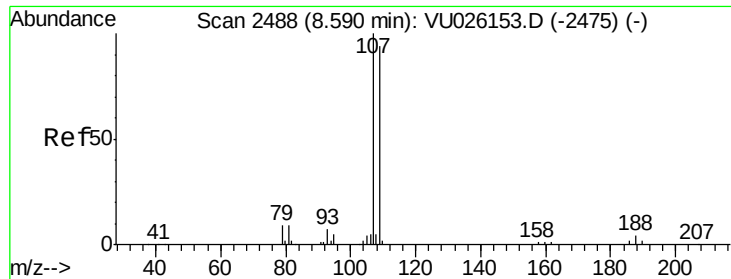
MMDadoda  
8/16/2018 4:20:29 PM



#49  
Dibromochloromethane  
Concen: 2.20 ug/L  
RT: 8.48 min Scan# 2454  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 83.6  | 54.6  | 101.4 |





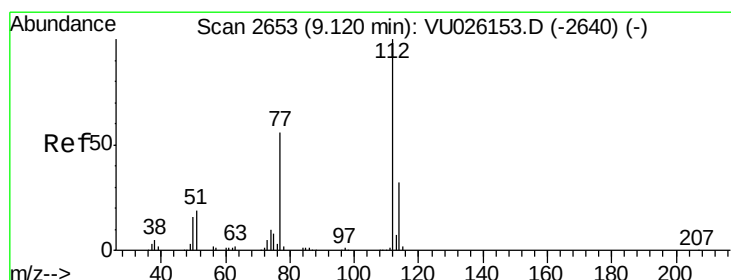
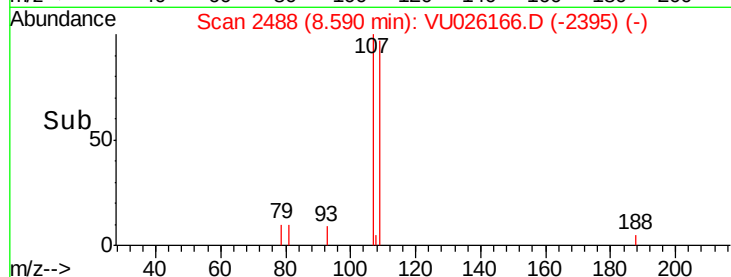
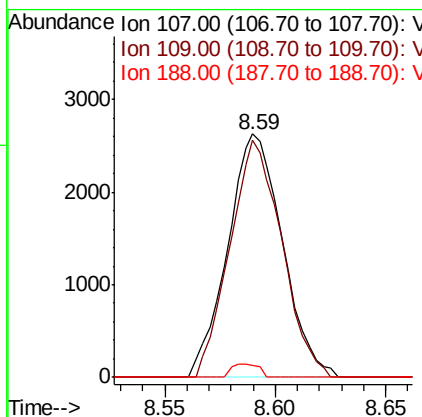
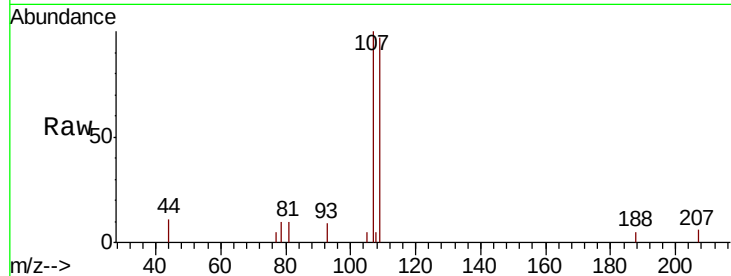
#50  
1,2-Dibromoethane  
Concen: 2.35 ug/L  
RT: 8.59 min Scan# 2488  
Delta R.T. -0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   | 4534 |       |       |
| 109     | 97.2  | 66.1 | 122.7 |       |
| 188     | 5.1   | 3.2  | 4.8#  |       |

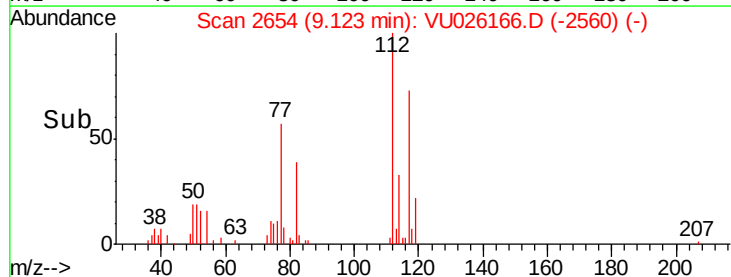
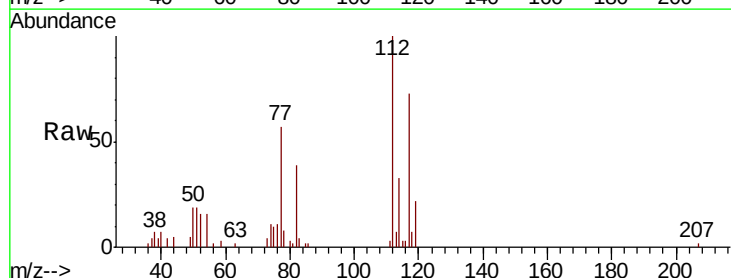
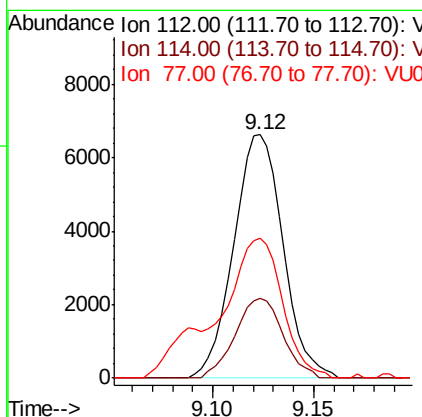
Manual Integrations  
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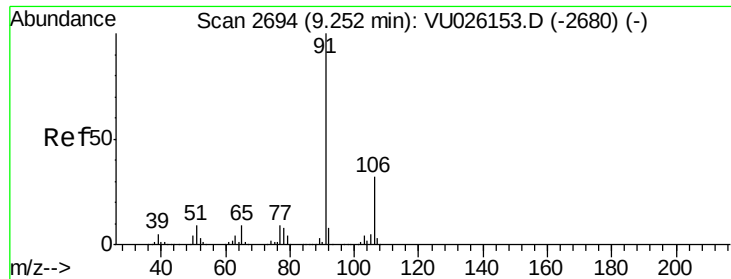
MMDadoda  
8/16/2018 4:20:29 PM



#51  
Chlorobenzene  
Concen: 2.23 ug/L  
RT: 9.12 min Scan# 2654  
Delta R.T. 0.00 min  
Lab File: VU026166.D  
Acq: 15 Aug 2018 23:38

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 11345 |       |       |
| 114     | 32.7  | 22.5  | 41.9  |       |
| 77      | 57.3  | 45.0  | 67.4  |       |





#52

Ethylbenzene

Concen: 2.00 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 16191

Ion Ratio Lower Upper

91 100

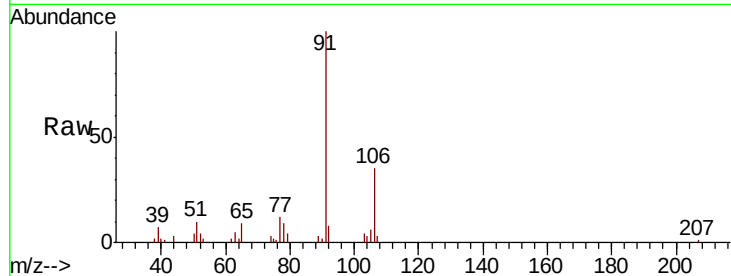
106 34.9 22.3 41.5

Manual Integrations

APPROVED

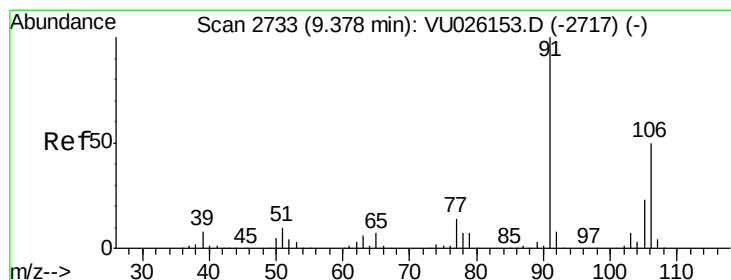
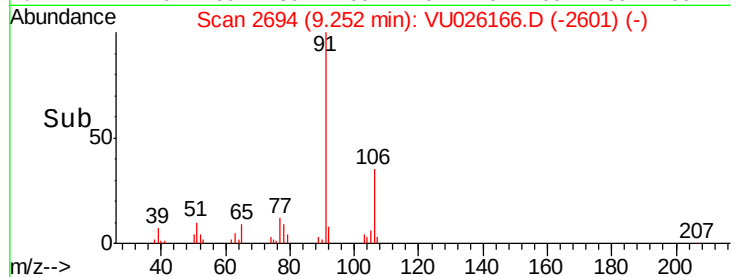
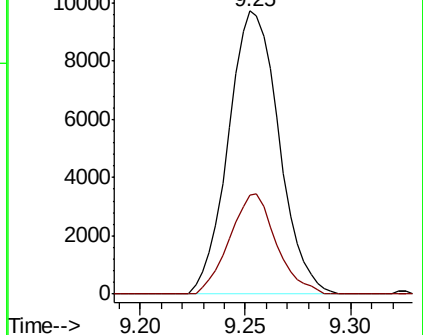
MMDadoda

8/16/2018 4:20:29 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026153.D (-2680) (-)

Ion 106.00 (105.70 to 106.70): VU026153.D (-2680) (-)



#53

m,p-Xylene

Concen: 1.80 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026166.D

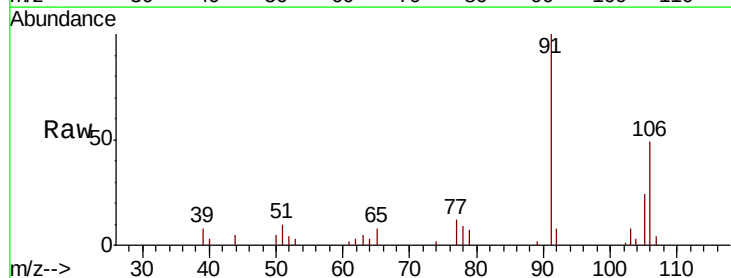
Acq: 15 Aug 2018 23:38

Tgt Ion: 106 Resp: 5627

Ion Ratio Lower Upper

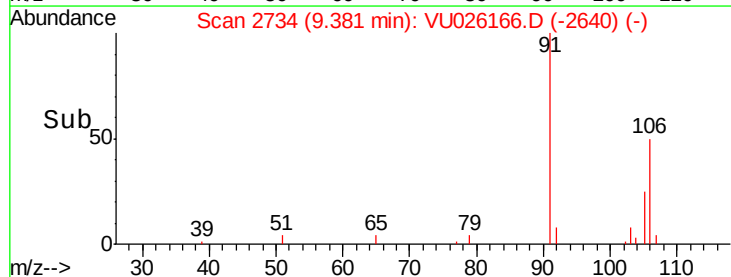
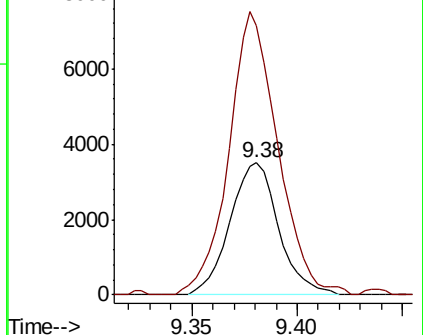
106 100

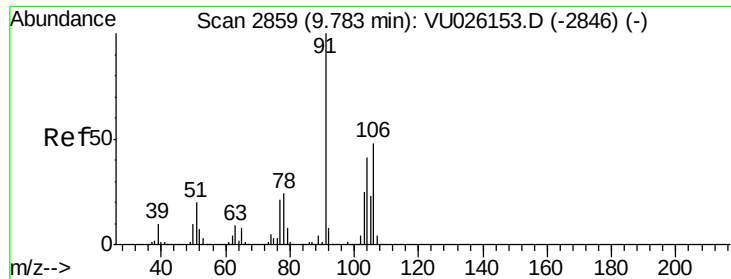
91 203.9 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): VU026153.D (-2717) (-)

Ion 91.00 (90.70 to 91.70): VU026153.D (-2717) (-)





#54

o-xylene

Concen: 1.90 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

ClientSampled :

MDL04

Tot Ion:106 Resp: 5931

Ion Ratio Lower Upper

106 100

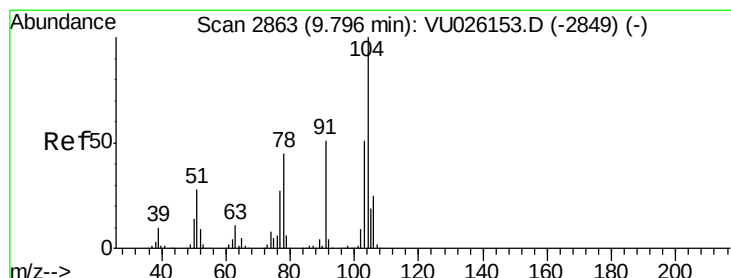
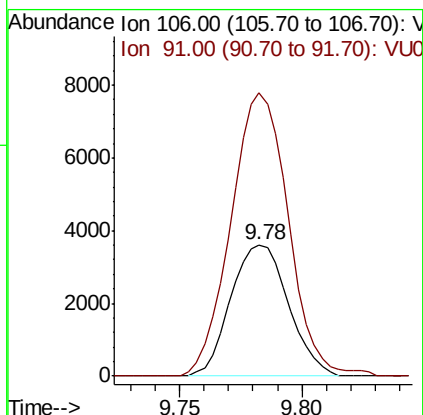
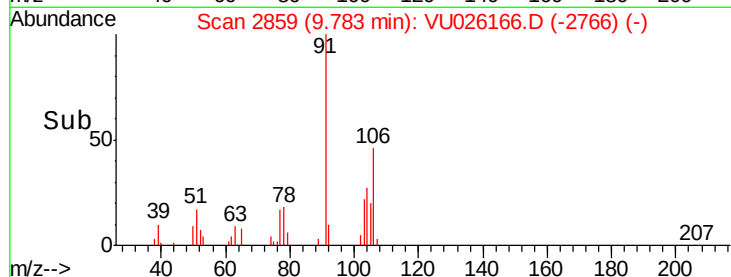
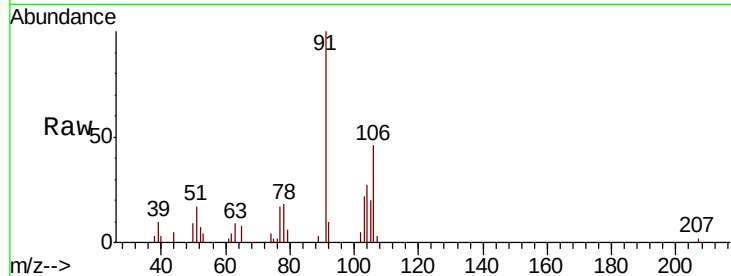
91 215.5 148.0 274.8

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#55

Styrene

Concen: 1.67 ug/L

RT: 9.80 min Scan# 2864

Delta R.T. 0.00 min

Lab File: VU026166.D

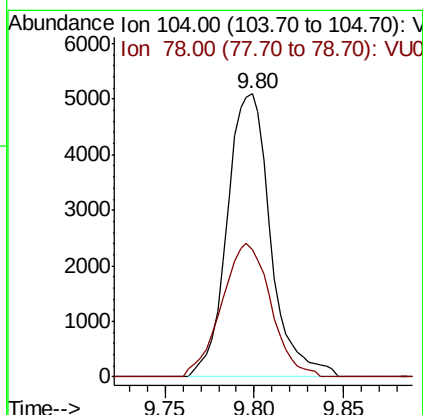
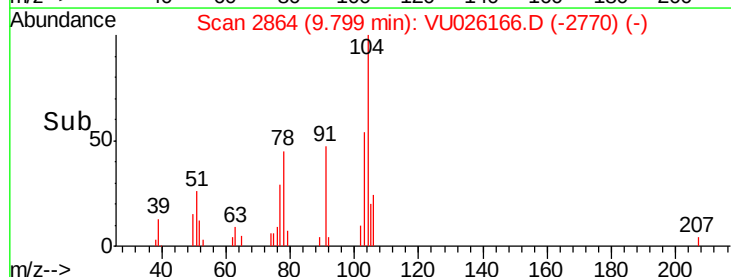
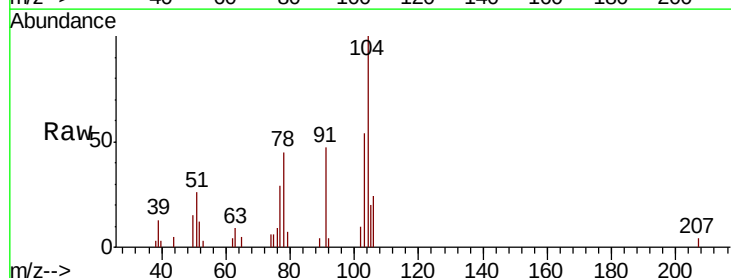
Acq: 15 Aug 2018 23:38

Tgt Ion:104 Resp: 8650

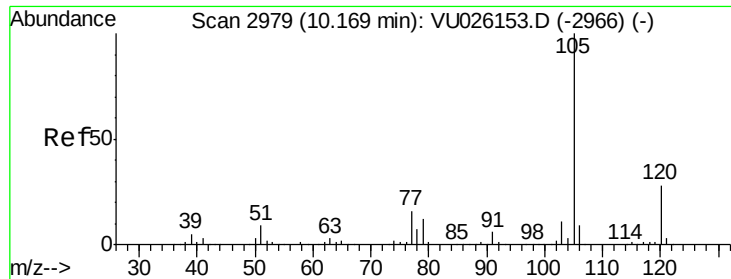
Ion Ratio Lower Upper

104 100

78 45.0 30.9 57.5







#56

Isopropylbenzene

Concen: 1.73 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

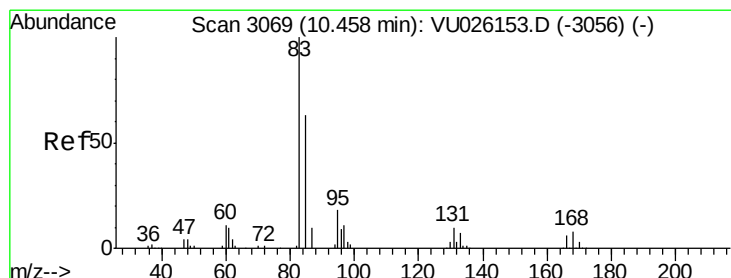
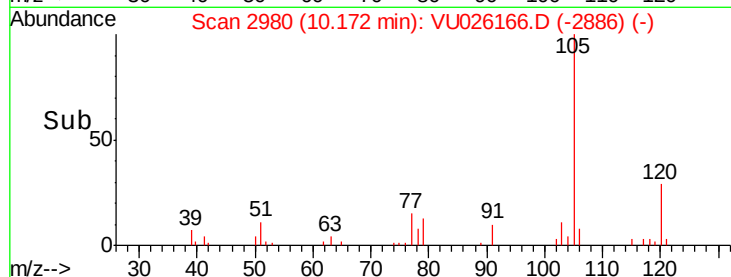
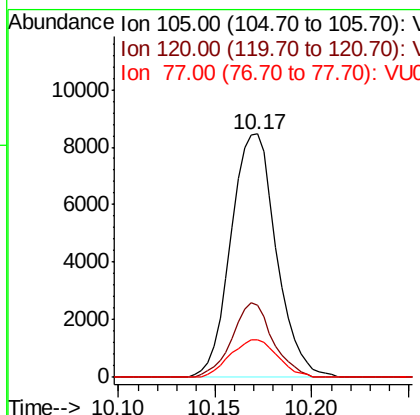
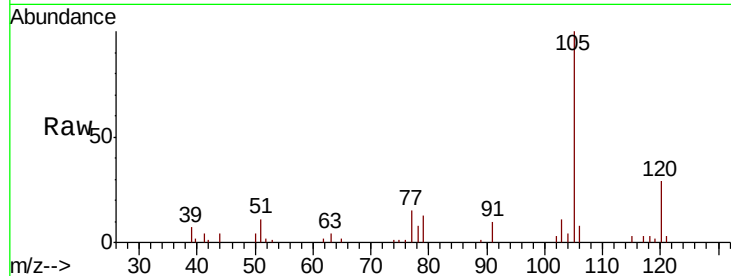
ClientSampled :

MDL04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 13823 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 27.4  | 21.5  | 32.3  |
| 77        | 16.0  | 12.3  | 18.5  |

Manual Integrations  
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#58

1,1,2,2-Tetrachloroethane

Concen: 2.51 ug/L

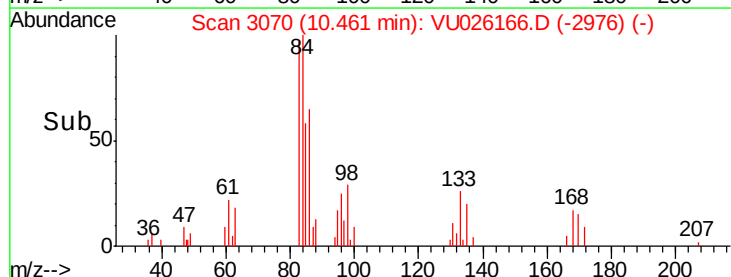
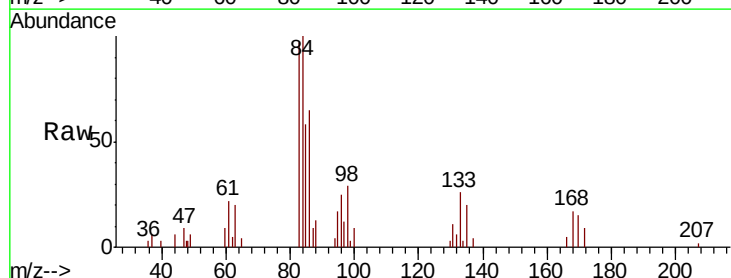
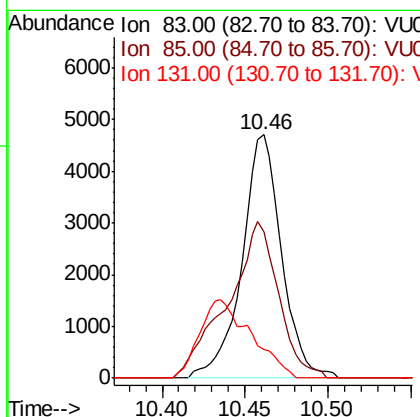
RT: 10.46 min Scan# 3070

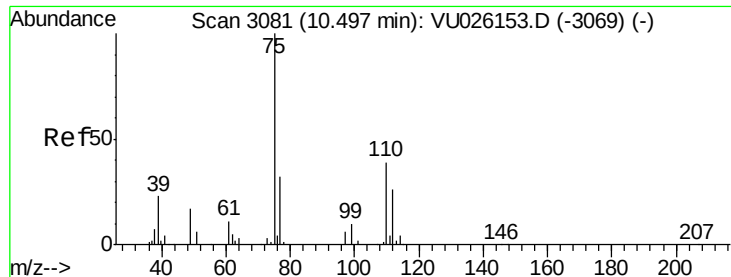
Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 7793 |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 85        | 60.0  | 45.0  | 83.6 |
| 131       | 11.5  | 8.4   | 12.6 |





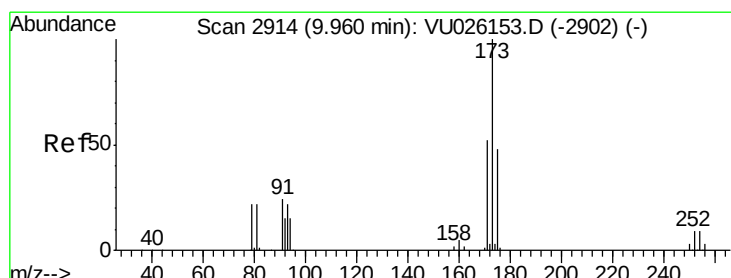
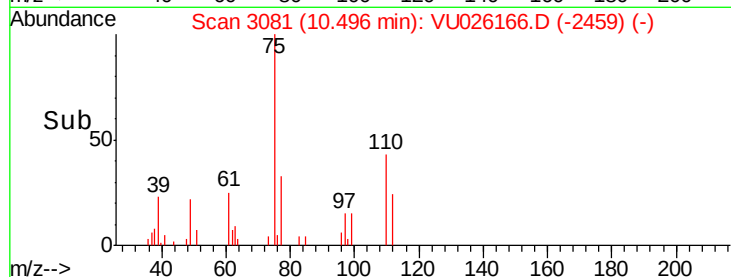
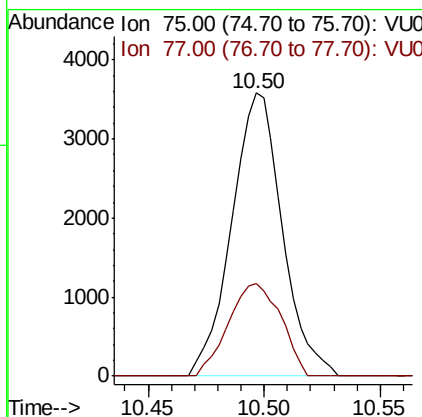
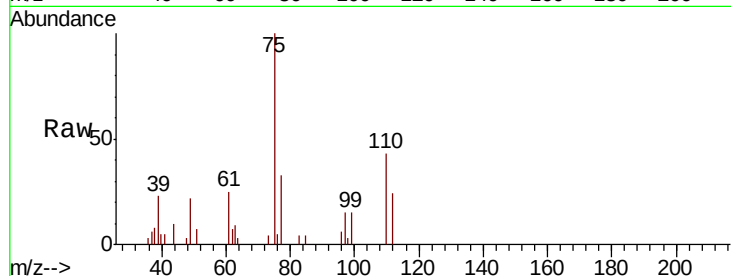
#59  
 1,2,3-Trichloropropane  
 Concen: 2.25 ug/L  
 RT: 10.50 min Scan# 3081  
 Delta R.T. -0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

Tot Ion: 75 Resp: 5429  
 Ion Ratio Lower Upper  
 75 100  
 77 33.9 26.1 39.1

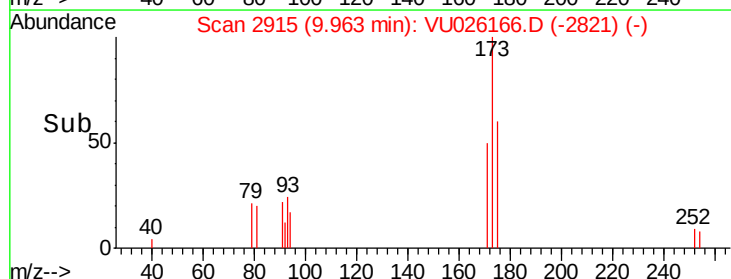
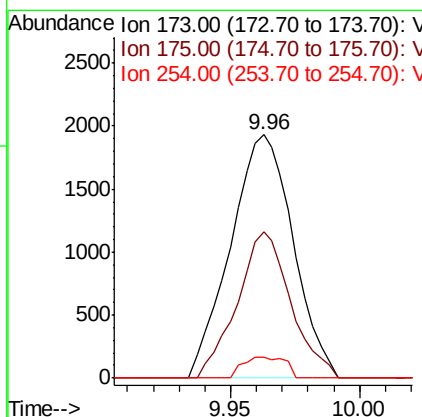
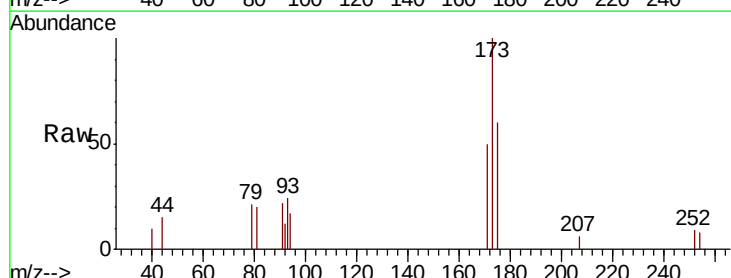
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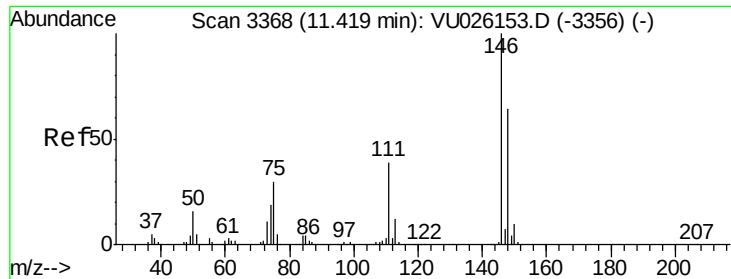
MMDadoda  
 8/16/2018 4:20:29 PM



#61  
 Bromoform  
 Concen: 2.33 ug/L  
 RT: 9.96 min Scan# 2915  
 Delta R.T. 0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Tgt Ion: 173 Resp: 3263  
 Ion Ratio Lower Upper  
 173 100  
 175 51.5 38.8 58.2  
 254 4.1 7.3 10.9#





#62

1,3-Dichlorobenzene

Concen: 2.27 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

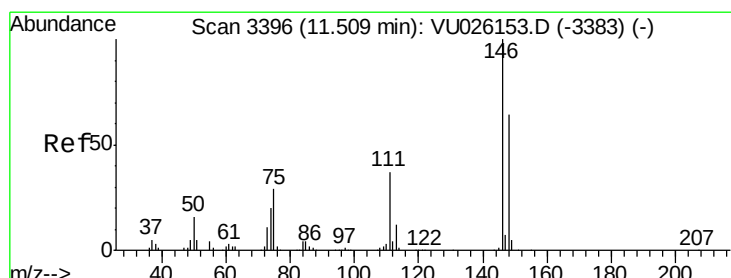
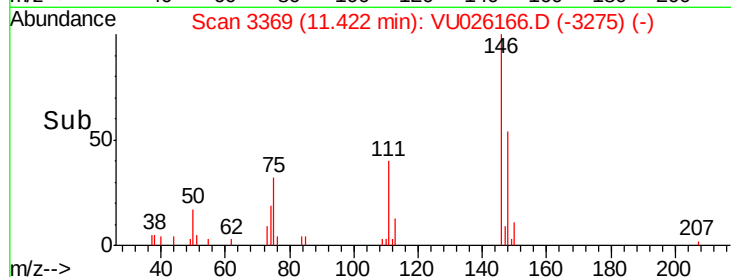
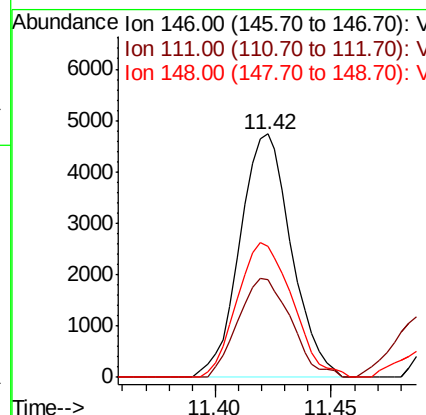
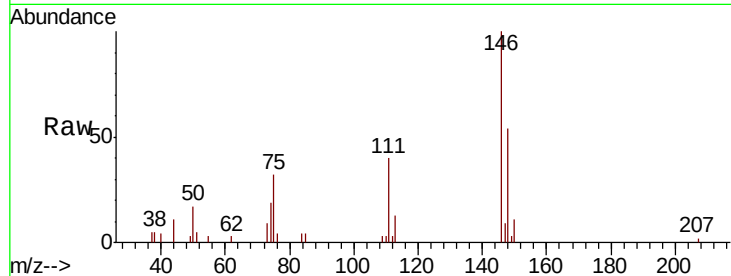
ClientSampleId :

MDL04

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 7301  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 40.1  | 26.7  | 49.7  |
| 148      | 53.9  | 44.1  | 81.9  |

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#63

1,4-Dichlorobenzene

Concen: 2.32 ug/L

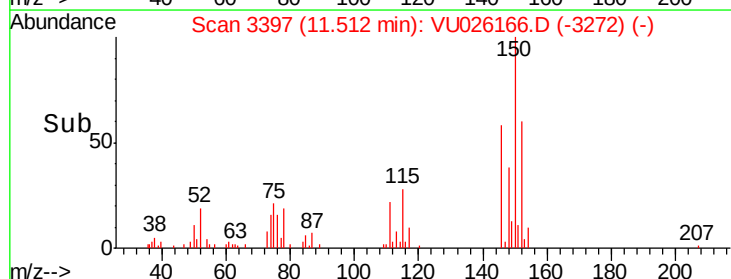
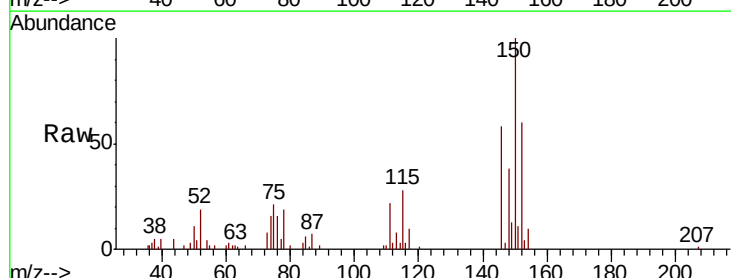
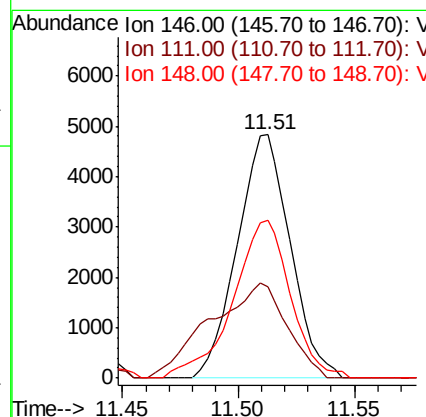
RT: 11.51 min Scan# 3397

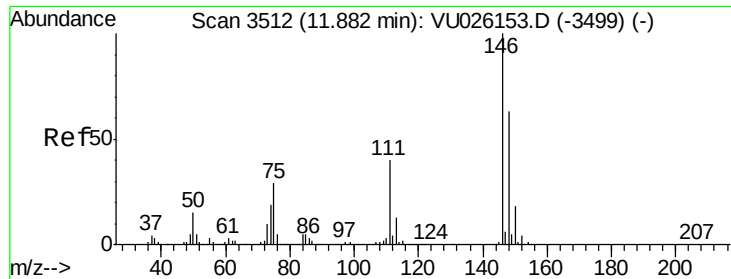
Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 7686  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 37.3  | 27.5  | 51.1  |
| 148      | 65.0  | 44.8  | 83.2  |





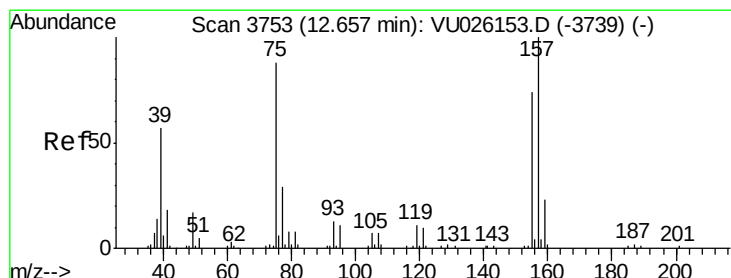
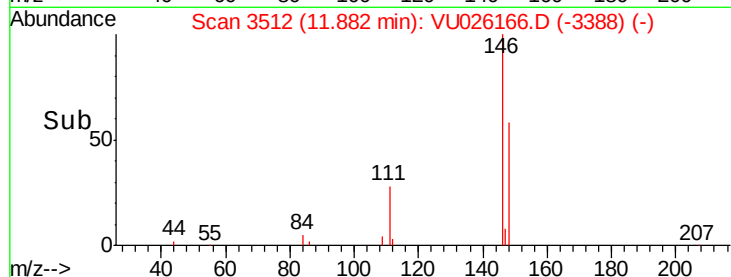
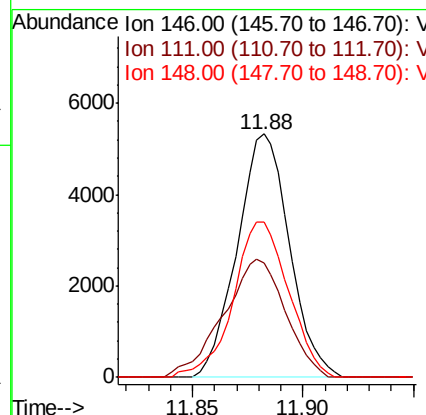
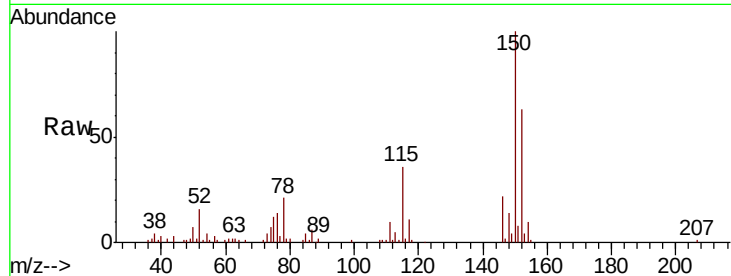
#65  
 1,2-Dichlorobenzene  
 Concen: 2.55 ug/L  
 RT: 11.88 min Scan# 3512  
 Delta R.T. -0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.0  | 32.7  | 49.1  |
| 148     | 63.7  | 51.4  | 77.2  |

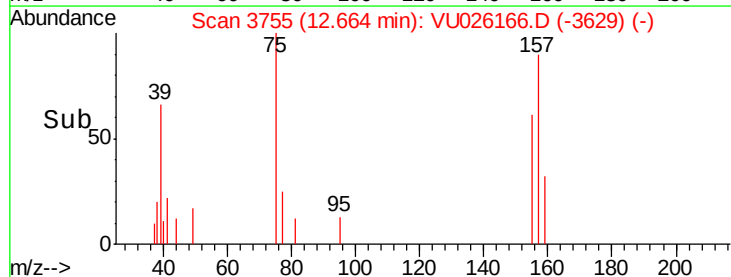
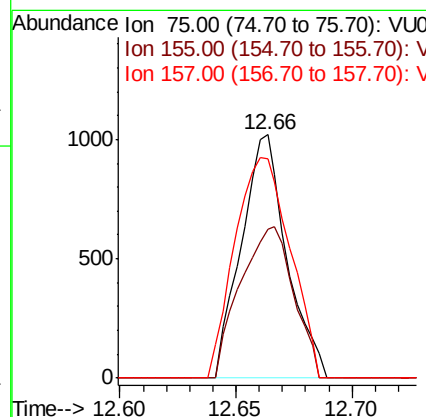
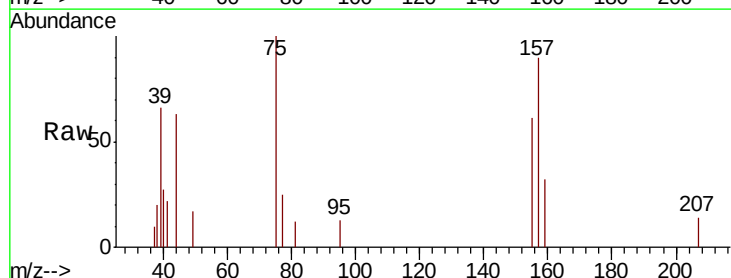
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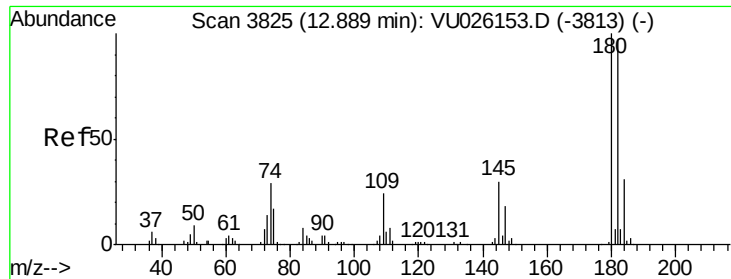
MMDadoda  
 8/16/2018 4:20:29 PM



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.56 ug/L  
 RT: 12.66 min Scan# 3755  
 Delta R.T. 0.01 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 61.0  | 68.2  | 102.2# |
| 157     | 89.8  | 90.5  | 135.7# |





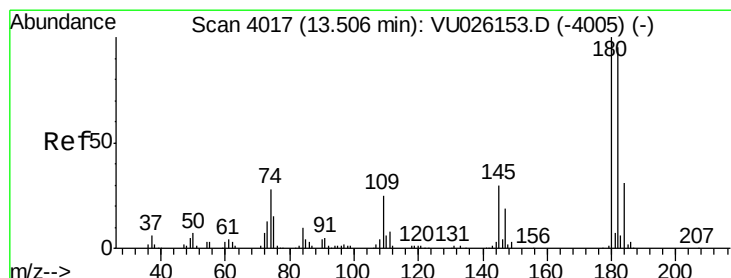
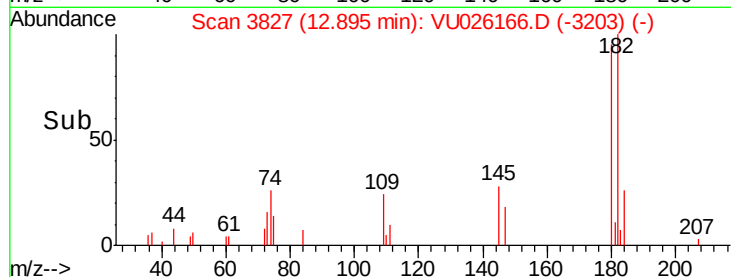
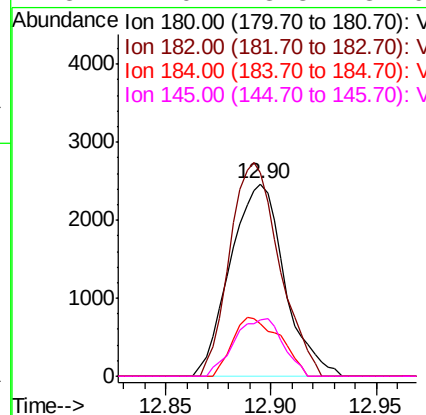
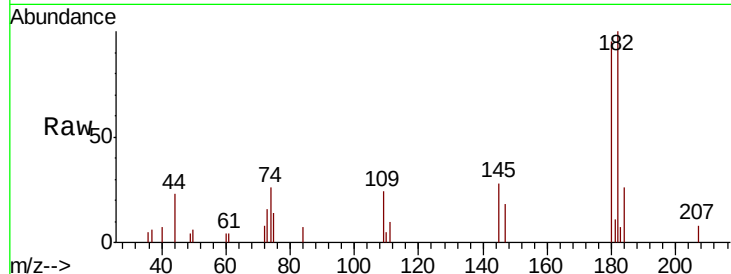
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.85 ug/L  
 RT: 12.90 min Scan# 3827  
 Delta R.T. 0.01 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL04

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 180     | 100   |       | 4396  |       |       |
| 182     | 101.4 | 75.6  | 113.4 |       |       |
| 184     | 26.9  | 24.3  | 36.5  |       |       |
| 145     | 27.0  | 23.3  | 34.9  |       |       |

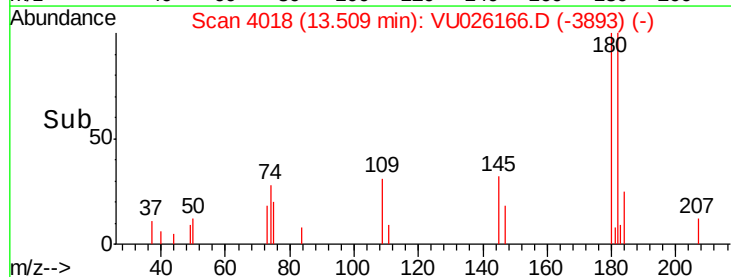
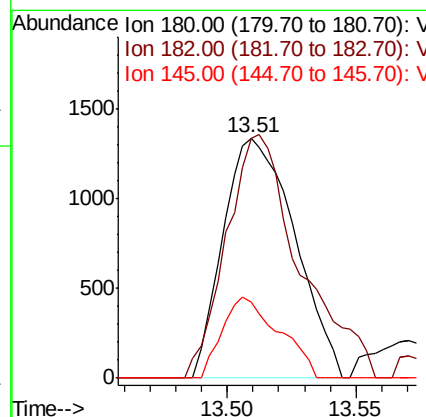
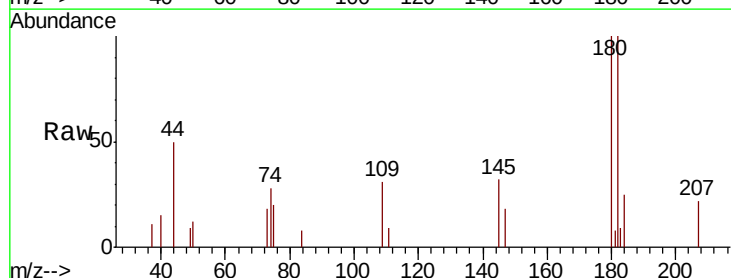
Manual Integrations  
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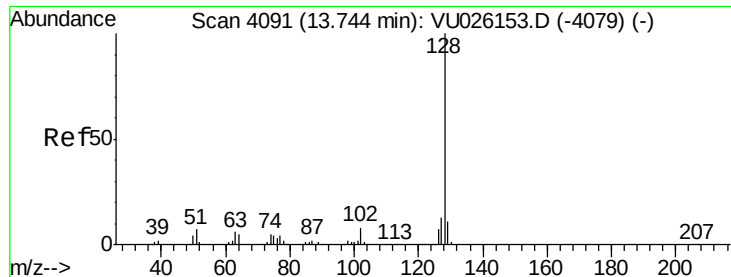
MMDadoda  
 8/16/2018 4:20:29 PM



#68  
 1,2,4-trichlorobenzene  
 Concen: 1.44 ug/L  
 RT: 13.51 min Scan# 4018  
 Delta R.T. 0.00 min  
 Lab File: VU026166.D  
 Acq: 15 Aug 2018 23:38

| Tgt Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 180     | 100   |       | 2585  |       |       |
| 182     | 104.4 | 76.8  | 115.2 |       |       |
| 145     | 26.7  | 23.8  | 35.6  |       |       |





#69

Naphthalene

Concen: 1.53 ug/L m

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA\_U

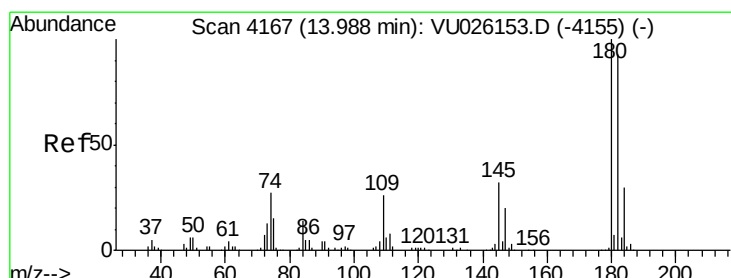
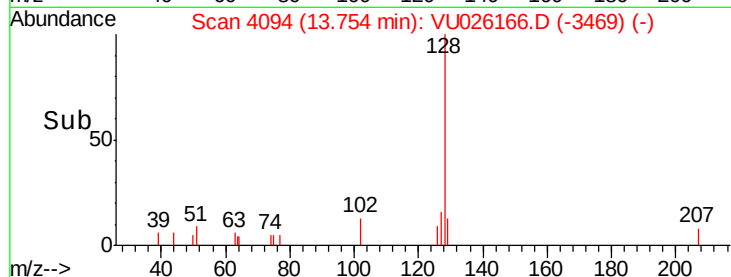
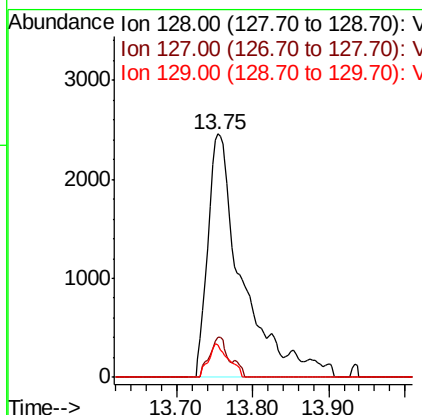
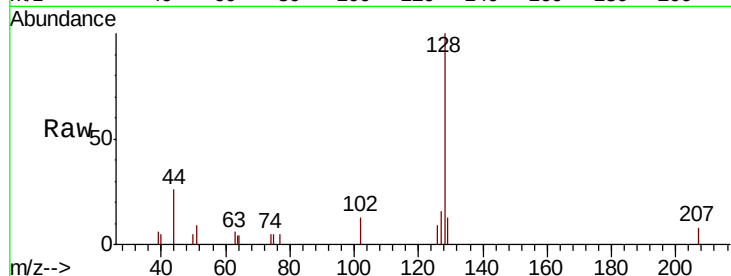
ClientSampleId :

MDL04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 7808  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 8.2   | 10.3  | 15.5# |
| 129       | 7.8   | 8.6   | 13.0# |

Manual Integrations  
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#70

1,2,3-Trichlorobenzene

Concen: 1.58 ug/L m

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 3051  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 88.4  | 77.1  | 115.7 |
| 145       | 26.0  | 25.1  | 37.7  |

