

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\  
 Data File : VU026165.D  
 Acq On : 15 Aug 2018 23:14  
 Operator : MD/SY  
 Sample : MDL03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

Manual Integrations  
 APPROVED

MMDadoda  
 8/16/2018 4:20:28 PM

Quant Time: Aug 16 05:03:54 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  | 273952   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 258440   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 109340   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 64466    | 40.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 80.16%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 57422    | 43.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.86%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 103779   | 32.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.70%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 127139   | 103.01   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.01% |
| 24) Chloroform-d               | 4.65    | 84    | 160975   | 44.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.36%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 112009   | 47.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 32) Benzene-d6                 | 5.35    | 84    | 313112   | 46.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.98%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 103637   | 47.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.62%  |
| 41) Toluene-d8                 | 7.57    | 98    | 281508   | 44.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.28%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 44936    | 43.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.66%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 89673    | 99.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.92%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 141749   | 45.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.96%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 109329   | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.10%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc | Units  | Ovalue |
|--------------------------------|------|------|----------|------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85   | 4268     | 1.97 | ug/L   | 99     |
| 3) Chloromethane               | 1.33 | 50   | 4336     | 2.20 | ug/L   | 100    |
| 5) Vinyl chloride              | 1.40 | 62   | 4051     | 2.05 | ug/L # | 66     |
| 6) Bromomethane                | 1.62 | 94   | 2252     | 2.22 | ug/L   | 98     |
| 8) Chloroethane                | 1.70 | 64   | 2661     | 2.25 | ug/L   | 93     |
| 9) Trichlorofluoromethane      | 1.89 | 101  | 5740     | 1.97 | ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101  | 3998     | 2.53 | ug/L # | 75     |
| 12) 1,1-Dichloroethene         | 2.28 | 96   | 3959     | 2.73 | ug/L # | 1      |
| 13) Acetone                    | 2.32 | 43   | 4929     | 4.36 | ug/L   | 90     |
| 14) Carbon disulfide           | 2.48 | 76   | 10327    | 2.06 | ug/L   | 99     |
| 15) Methyl Acetate             | 2.62 | 43   | 4611     | 2.35 | ug/L   | 97     |
| 16) Methylene chloride         | 2.70 | 84   | 4072     | 2.10 | ug/L   | 93     |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96   | 3792     | 2.21 | ug/L   | 94     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73   | 10751    | 1.97 | ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.45 | 63   | 6775     | 2.05 | ug/L   | 94     |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96   | 3920m    | 2.04 | ug/L   |        |
| 22) 2-Butanone                 | 4.27 | 43   | 5687m    | 4.04 | ug/L   |        |

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 Sample : MDL03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

Manual Integrations  
 APPROVED

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Quant Time: Aug 16 05:03:54 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          | 4.55  | 128  | 2064     | 1.98 | ug/L   | 89       |
| 25) Chloroform                  | 4.68  | 83   | 9456     | 2.72 | ug/L   | 90       |
| 27) 1,2-Dichloroethane          | 5.41  | 62   | 6153     | 2.19 | ug/L   | 99       |
| 29) Cyclohexane                 | 5.00  | 56   | 4530     | 1.75 | ug/L # | 85       |
| 30) 1,1,1-Trichloroethane       | 4.92  | 97   | 5904     | 1.91 | ug/L   | 92       |
| 31) Carbon tetrachloride        | 5.14  | 117  | 5453     | 1.95 | ug/L   | 95       |
| 33) Benzene                     | 5.39  | 78   | 14268    | 2.04 | ug/L   | 100      |
| 34) Trichloroethene             | 6.19  | 95   | 3790     | 2.08 | ug/L   | 92       |
| 35) Methylcyclohexane           | 6.42  | 83   | 4468     | 1.63 | ug/L   | 92       |
| 37) 1,2-Dichloropropane         | 6.44  | 63   | 4143     | 2.12 | ug/L # | 90       |
| 38) Bromodichloromethane        | 6.76  | 83   | 5259     | 2.03 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 5291     | 1.82 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 9916     | 4.09 | ug/L   | 95       |
| 42) Toluene                     | 7.64  | 91   | 14955    | 2.01 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 5657m    | 2.02 | ug/L   |          |
| 45) 1,1,2-Trichloroethane       | 8.07  | 97   | 3869     | 2.09 | ug/L   | 94       |
| 46) Tetrachloroethene           | 8.23  | 164  | 3173     | 2.02 | ug/L   | 87       |
| 48) 2-Hexanone                  | 8.36  | 43   | 8792     | 4.63 | ug/L   | 98       |
| 49) Dibromochloromethane        | 8.48  | 129  | 4415     | 1.98 | ug/L   | 93       |
| 50) 1,2-Dibromoethane           | 8.60  | 107  | 3733     | 1.94 | ug/L # | 86       |
| 51) Chlorobenzene               | 9.12  | 112  | 10135    | 2.00 | ug/L   | 98       |
| 52) Ethylbenzene                | 9.25  | 91   | 14165    | 1.75 | ug/L   | 90       |
| 53) m,p-Xylene                  | 9.38  | 106  | 5347     | 1.71 | ug/L   | 97       |
| 54) o-xylene                    | 9.79  | 106  | 4974     | 1.60 | ug/L   | 100      |
| 55) Styrene                     | 9.79  | 104  | 7899     | 1.52 | ug/L   | 98       |
| 56) Isopropylbenzene            | 10.17 | 105  | 11575    | 1.45 | ug/L   | 96       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.46 | 83   | 6937     | 2.24 | ug/L # | 92       |
| 59) 1,2,3-Trichloropropane      | 10.50 | 75   | 4967     | 2.06 | ug/L   | 97       |
| 61) Bromoform                   | 9.96  | 173  | 3050     | 2.13 | ug/L # | 95       |
| 62) 1,3-Dichlorobenzene         | 11.42 | 146  | 6372     | 1.94 | ug/L   | 96       |
| 63) 1,4-Dichlorobenzene         | 11.51 | 146  | 6924     | 2.05 | ug/L   | 94       |
| 65) 1,2-Dichlorobenzene         | 11.88 | 146  | 7146     | 2.04 | ug/L # | 83       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.66 | 75   | 1006     | 1.81 | ug/L   | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.90 | 180  | 3901     | 1.61 | ug/L   | 93       |
| 68) 1,2,4-trichlorobenzene      | 13.51 | 180  | 2363     | 1.29 | ug/L   | 94       |
| 69) Naphthalene                 | 13.76 | 128  | 7050m    | 1.35 | ug/L   |          |
| 70) 1,2,3-Trichlorobenzene      | 13.99 | 180  | 2725m    | 1.39 | ug/L   |          |

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

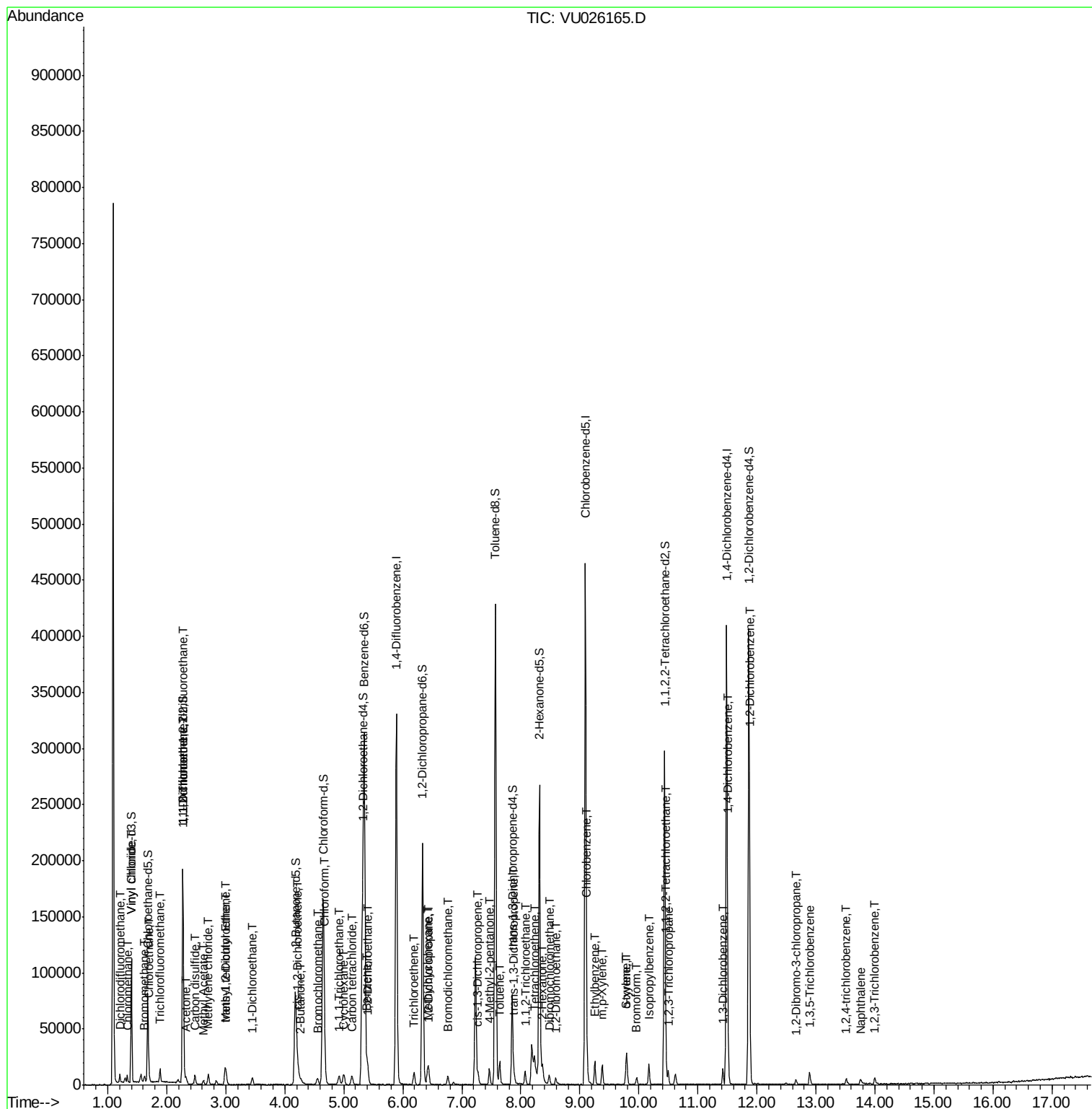
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\  
Data File : VU026165.D  
Acq On : 15 Aug 2018 23:14  
Operator : MD/SY  
Sample : MDL03  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 38 Sample Multiplier: 1

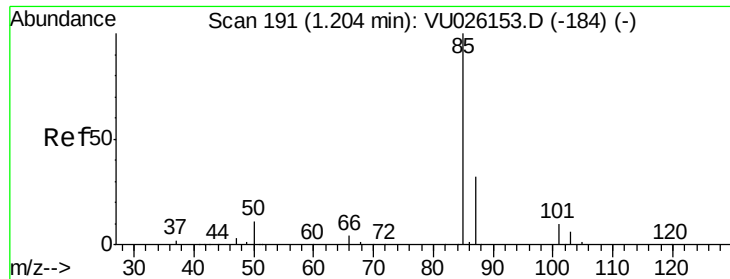
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL03

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Quant Time: Aug 16 05:03:54 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081518WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 16 04:40:24 2018  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.97 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Tot Ion: 85 Resp: 4268

Ion Ratio Lower Upper

85 100

87 33.4 26.1 39.1

Instrument :

MSVOA\_U

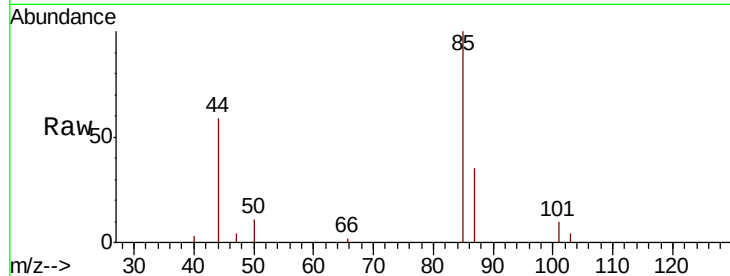
ClientSampleId :

MDL03

Manual Integrations  
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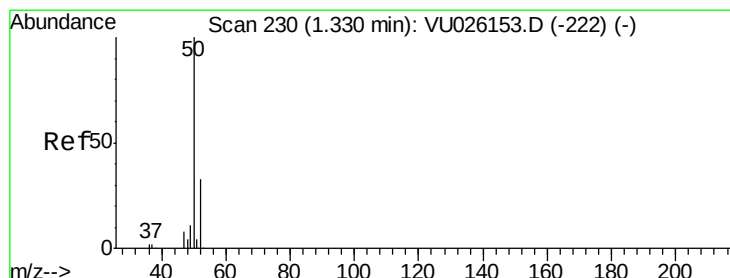
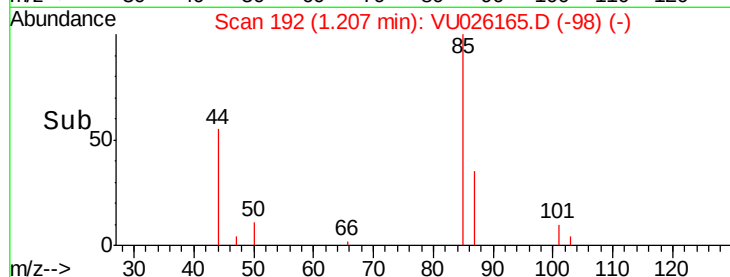
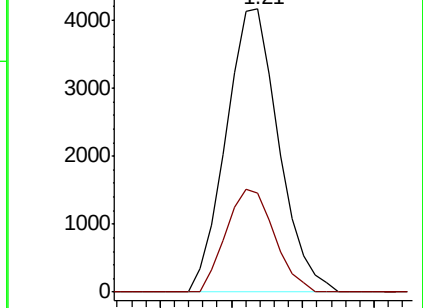
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Abundance Ion 85.00 (84.70 to 85.70): VU026165.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU026165.D (-184) (-)



#3

Chloromethane

Concen: 2.20 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026165.D

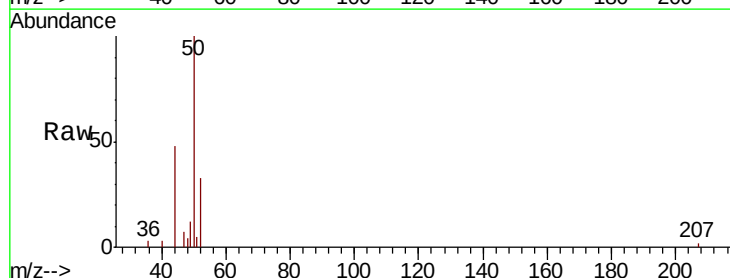
Acq: 15 Aug 2018 23:14

Tgt Ion: 50 Resp: 4336

Ion Ratio Lower Upper

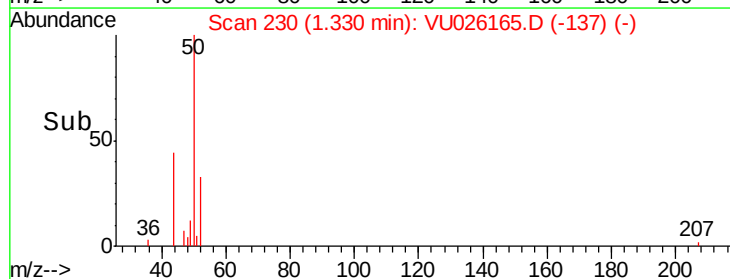
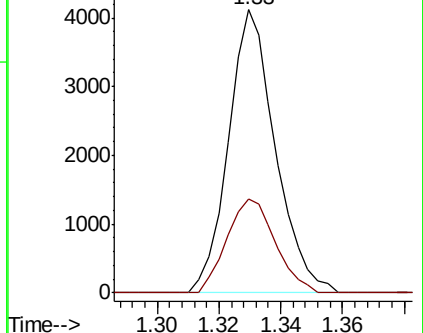
50 100

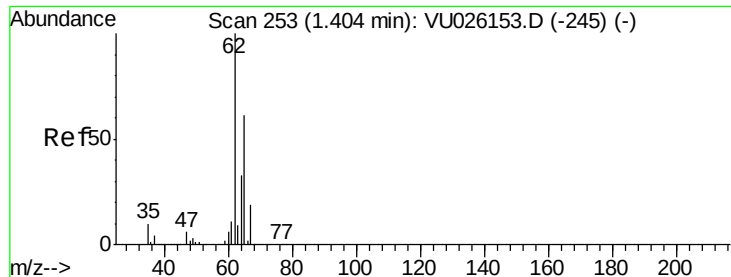
52 33.1 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU026165.D (-222) (-)

Ion 52.00 (51.70 to 52.70): VU026165.D (-222) (-)





#5

Vinyl chloride

Concen: 2.05 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 4051

Ion Ratio Lower Upper

62 100

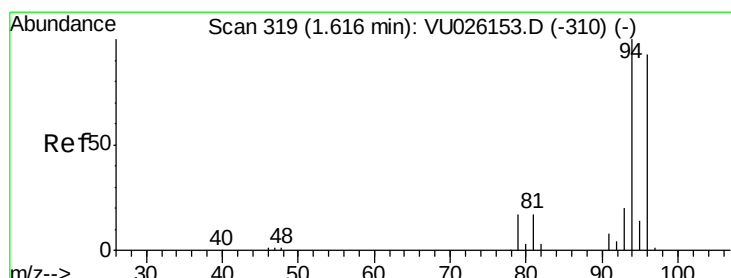
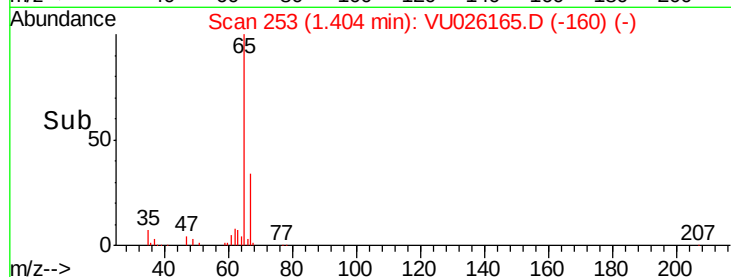
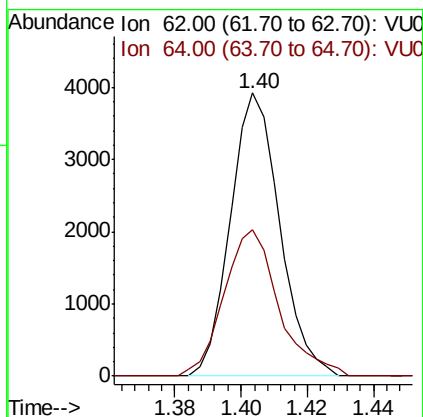
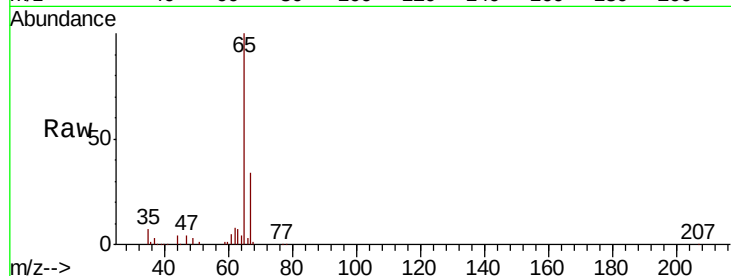
64 51.8 23.0 42.8#

Manual Integrations

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#6

Bromomethane

Concen: 2.22 ug/L

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU026165.D

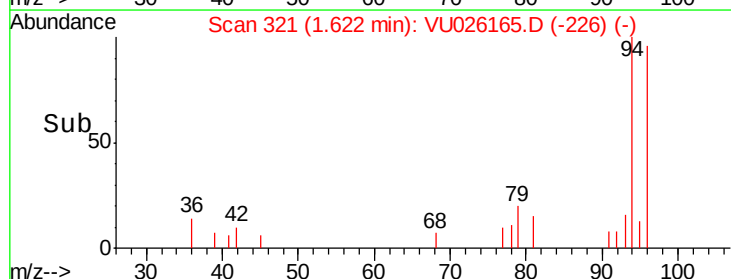
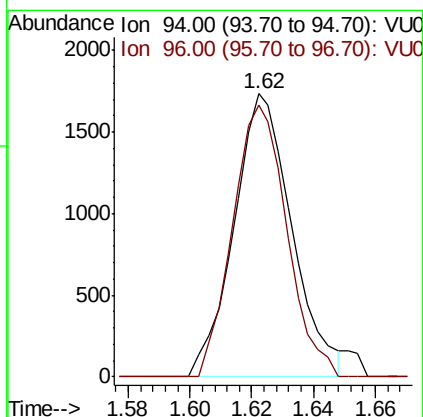
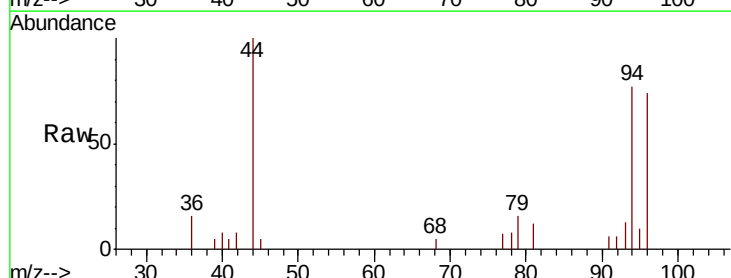
Acq: 15 Aug 2018 23:14

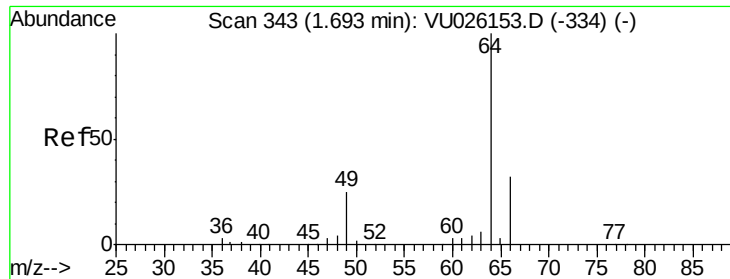
Tgt Ion: 94 Resp: 2252

Ion Ratio Lower Upper

94 100

96 96.2 65.9 122.5





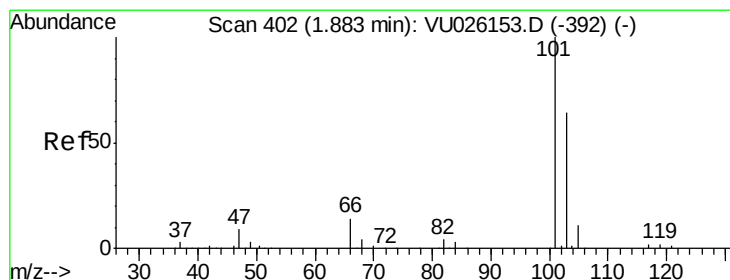
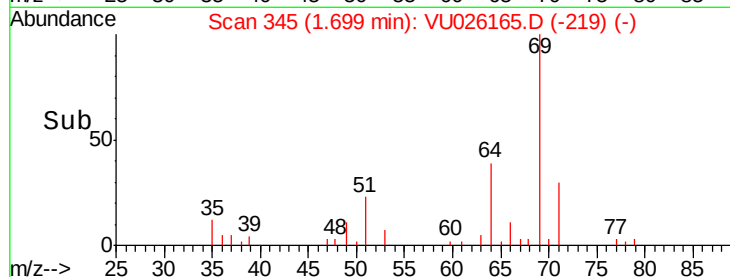
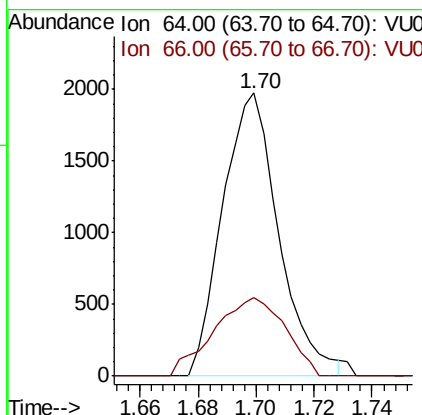
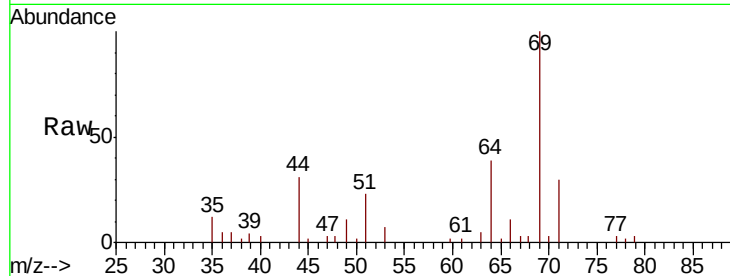
#8  
Chloroethane  
Concen: 2.25 ug/L  
RT: 1.70 min Scan# 345  
Delta R.T. 0.01 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 28.0  | 22.2  | 41.2  |

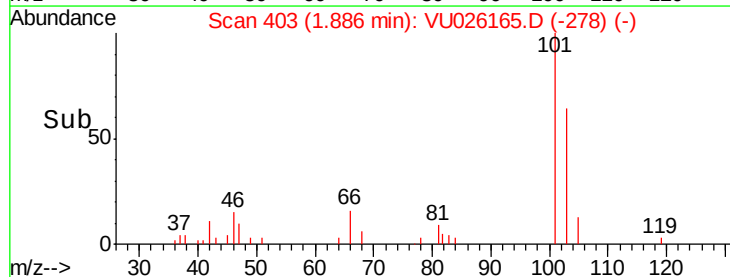
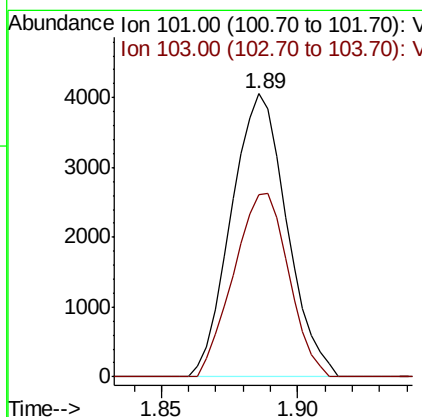
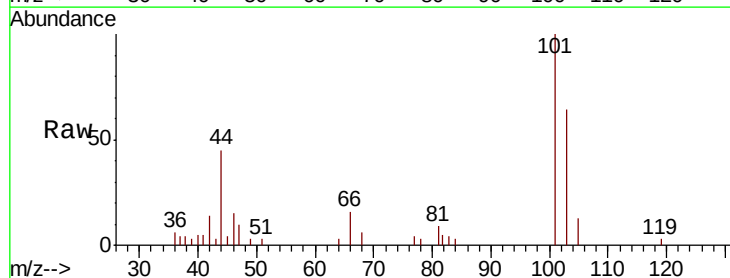
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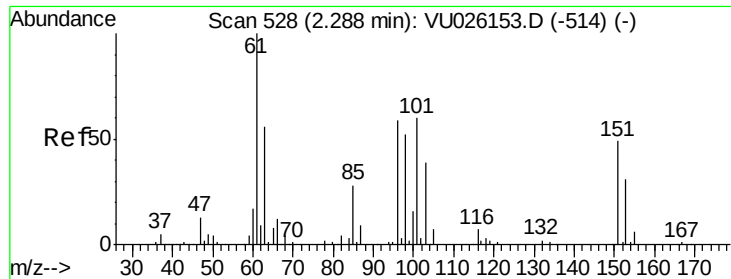
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#9  
Trichlorofluoromethane  
Concen: 1.97 ug/L  
RT: 1.89 min Scan# 403  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.0  | 51.4  | 77.2  |





#10

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

Concen: 2.53 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

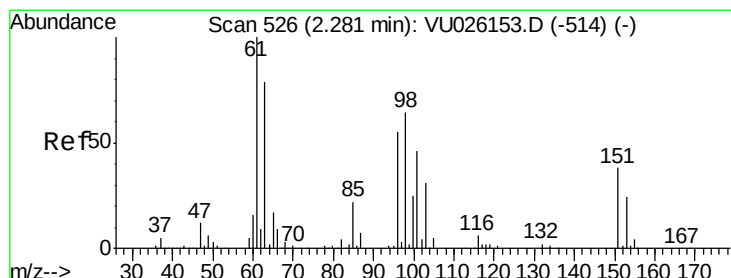
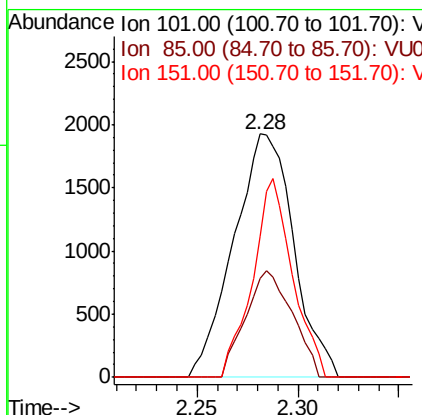
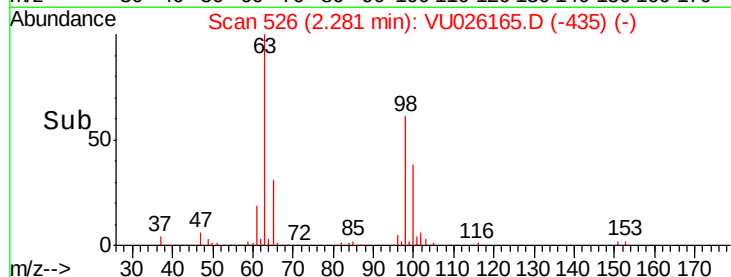
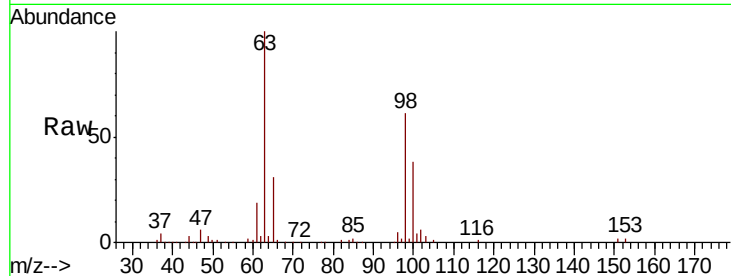
ClientSampled :

MDL03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 3998  |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 34.2  | 36.6  | 55.0# |
| 151       | 54.3  | 63.8  | 95.8# |

Manual Integrations  
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#12

1,1-Dichloroethene

Concen: 2.73 ug/L

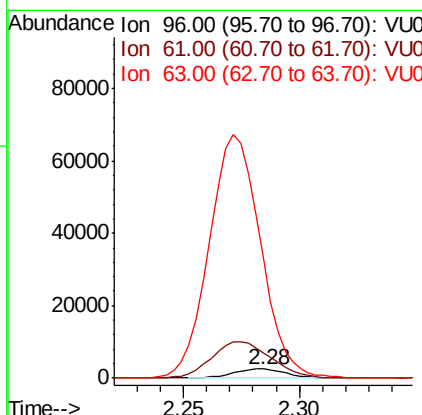
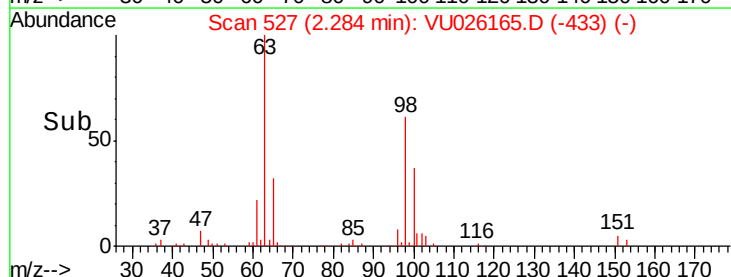
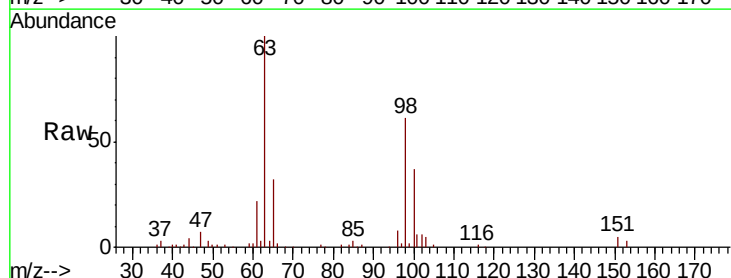
RT: 2.28 min Scan# 527

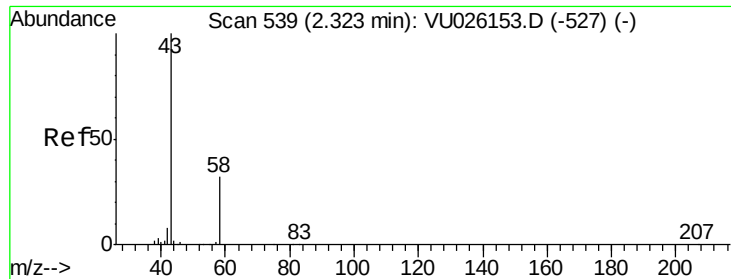
Delta R.T. 0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 3959   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 281.1  | 126.8 | 235.4# |
| 63        | 1304.6 | 97.0  | 180.2# |





#13

Acetone

Concen: 4.36 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 4929

Ion Ratio Lower Upper

43 100

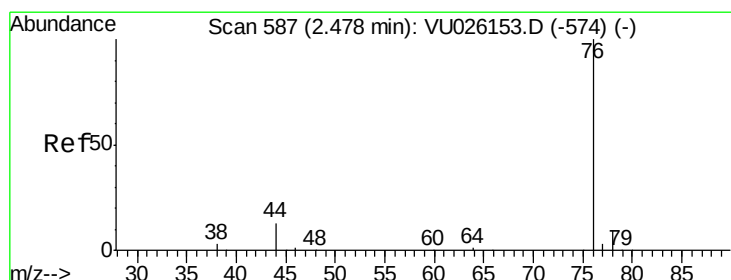
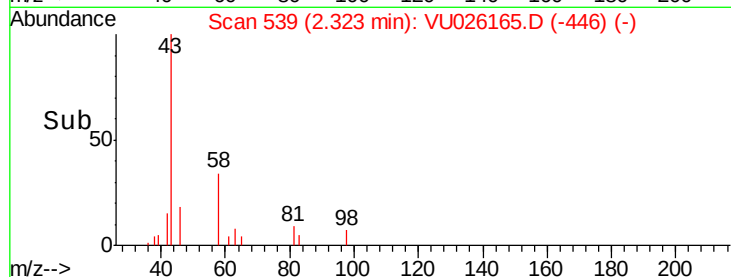
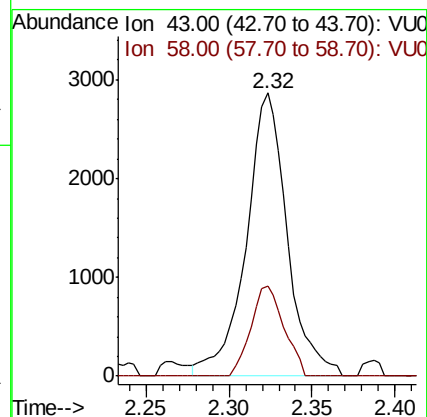
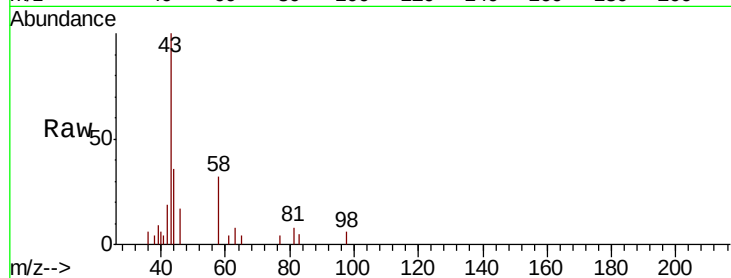
58 25.5 0.0 62.6

Manual Integrations

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MMDadoda

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#14

Carbon disulfide

Concen: 2.06 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026165.D

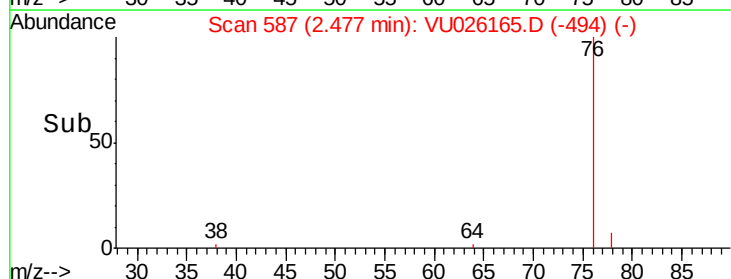
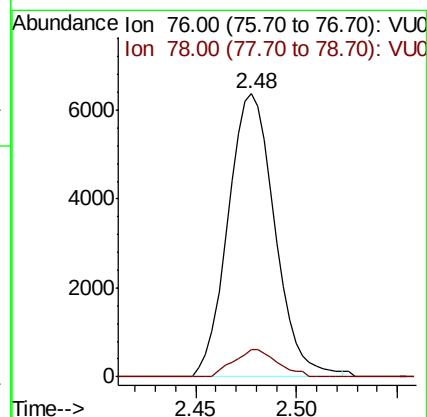
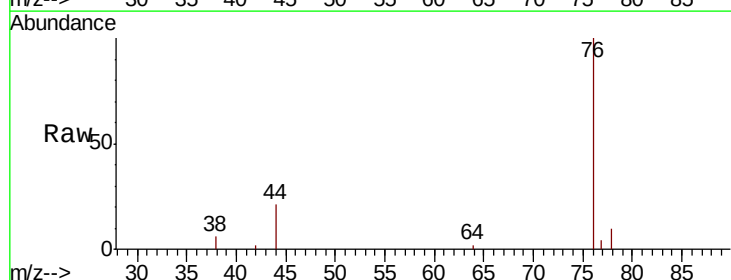
Acq: 15 Aug 2018 23:14

Tgt Ion: 76 Resp: 10327

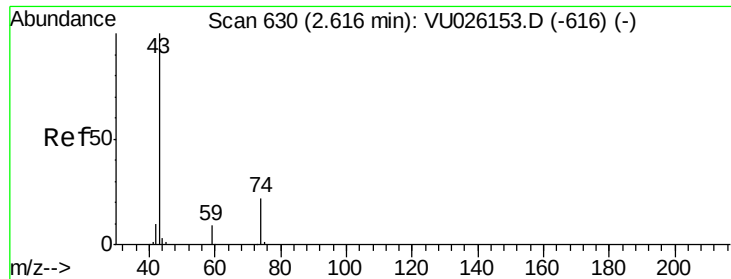
Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.2







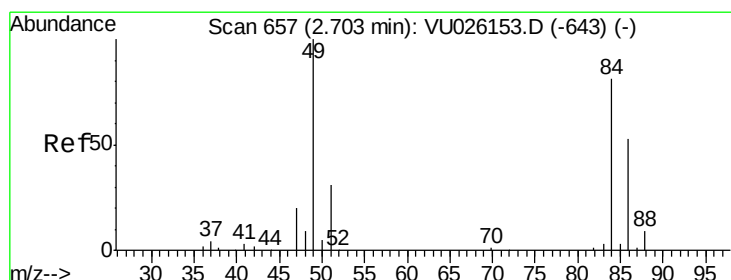
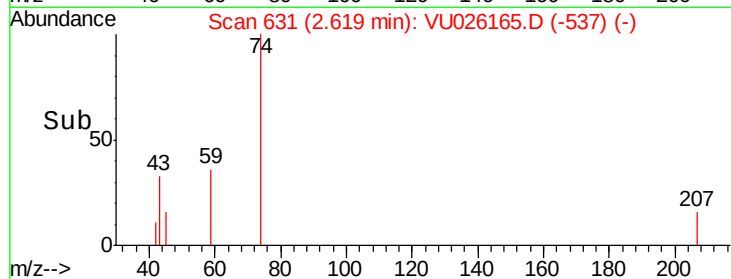
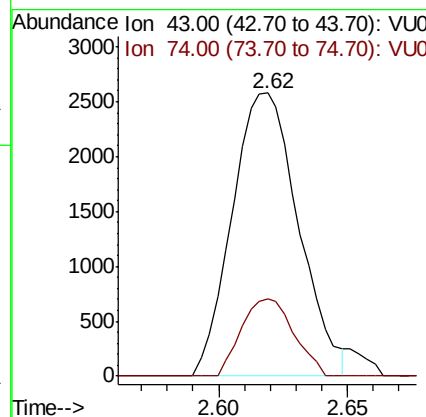
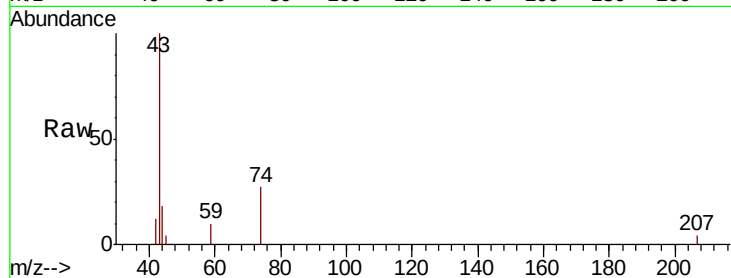
#15  
Methyl Acetate  
Concen: 2.35 ug/L  
RT: 2.62 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL03

Tot Ion: 43 Resp: 4611  
Ion Ratio Lower Upper  
43 100  
74 21.7 18.6 28.0

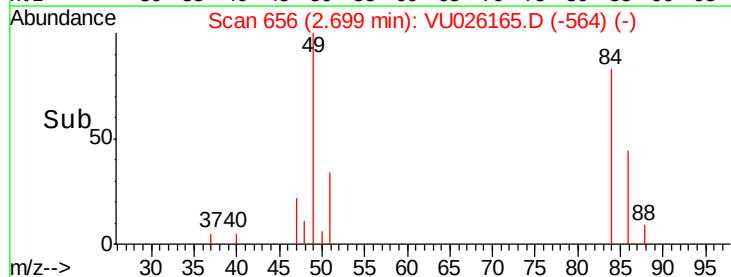
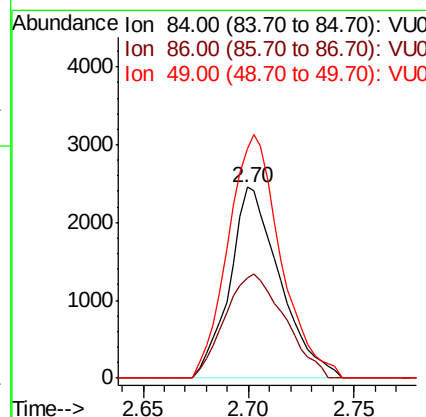
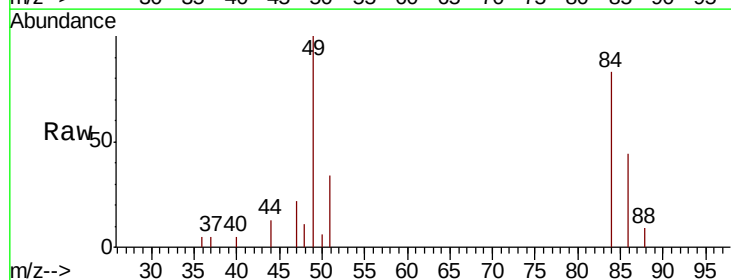
Manual Integrations  
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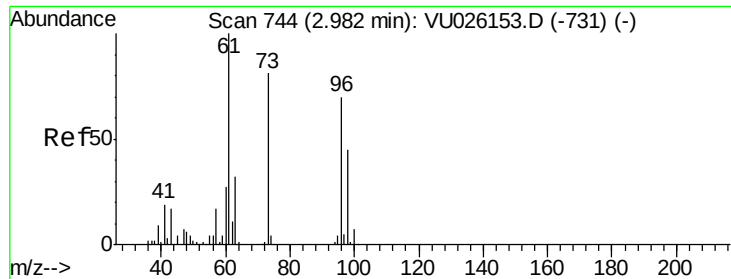
MMDadoda  
8/16/2018 4:20:28 PM



#16  
Methylene chloride  
Concen: 2.10 ug/L  
RT: 2.70 min Scan# 656  
Delta R.T. -0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Tgt Ion: 84 Resp: 4072  
Ion Ratio Lower Upper  
84 100  
86 52.4 44.0 81.6  
49 120.2 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 2.21 ug/L

RT: 2.99 min Scan# 746

Delta R.T. 0.01 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

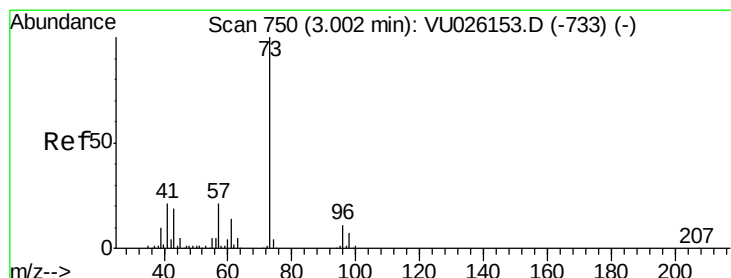
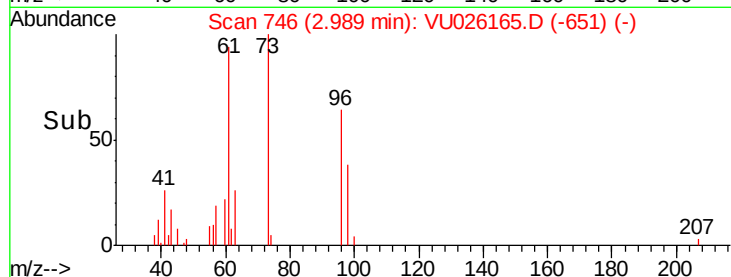
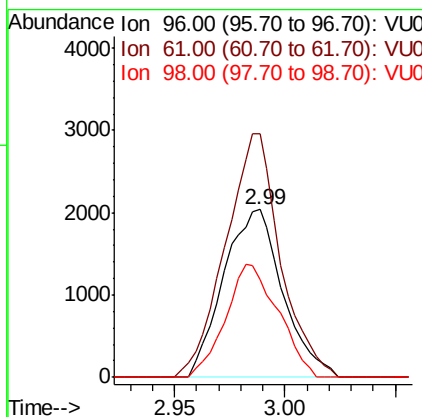
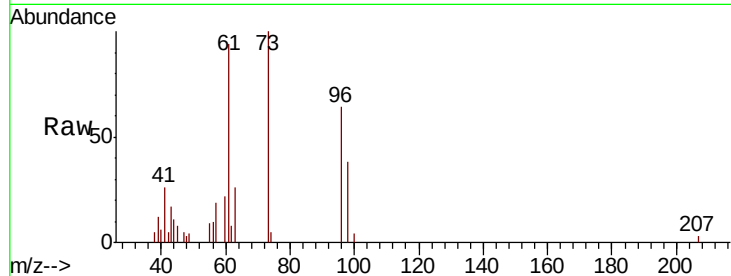
ClientSampleId :

MDL03

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 3792  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 145.3 | 96.7  | 179.5 |
| 98       | 58.4  | 43.6  | 81.0  |

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MMDadoda  
8/16/2018 4:20:28 PM



#18

Methyl tert-butyl Ether

Concen: 1.97 ug/L

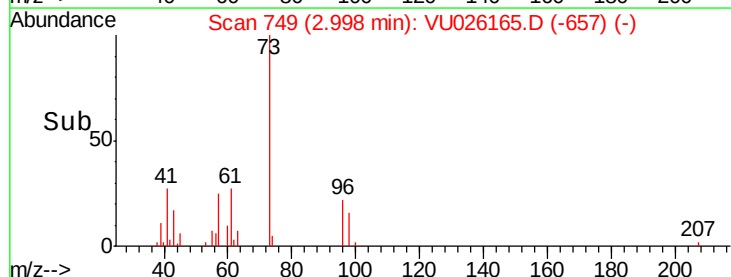
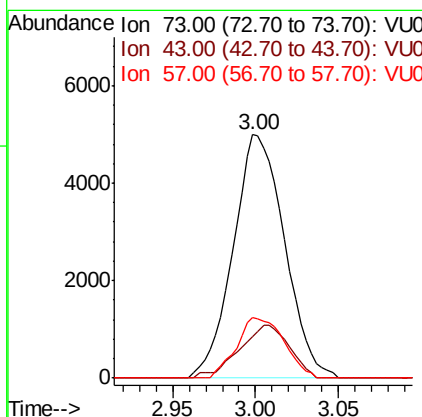
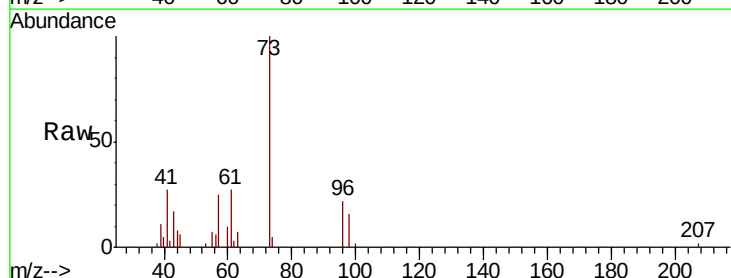
RT: 3.00 min Scan# 749

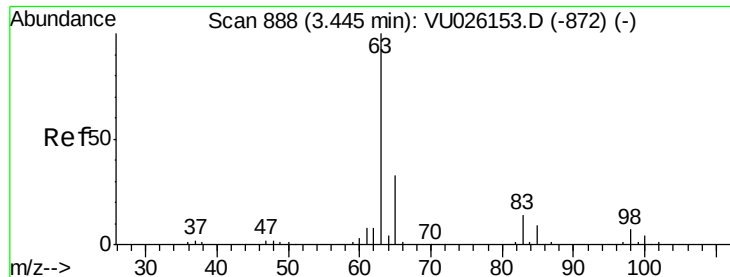
Delta R.T. -0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 10751 |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 43       | 20.6  | 16.2  | 24.4  |
| 57       | 22.9  | 18.2  | 27.2  |





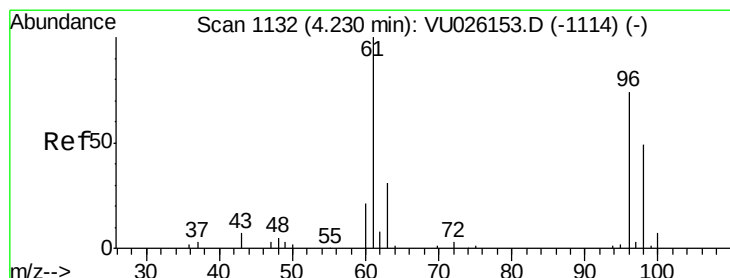
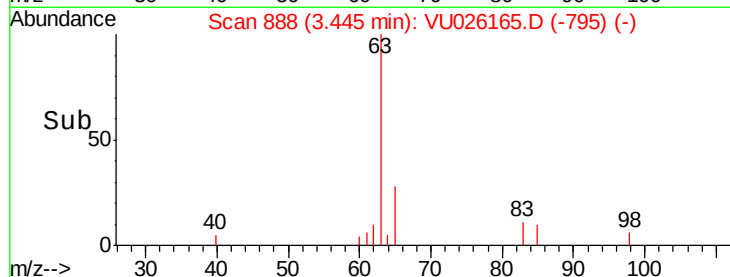
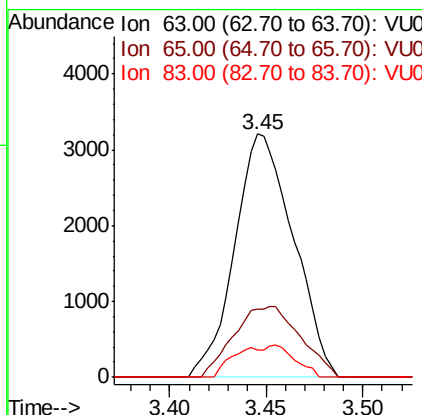
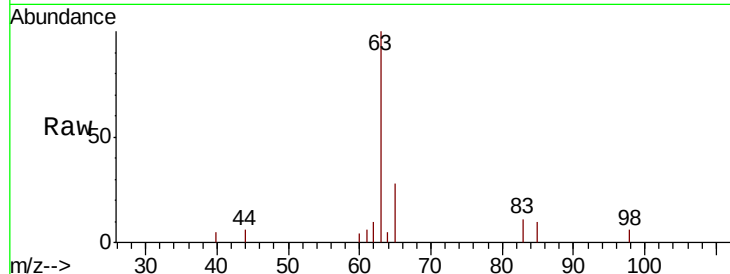
#19  
 1,1-Dichloroethane  
 Concen: 2.05 ug/L  
 RT: 3.45 min Scan# 888  
 Delta R.T. -0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 28.0  | 22.1  | 41.1  |
| 83      | 11.4  | 9.4   | 17.4  |

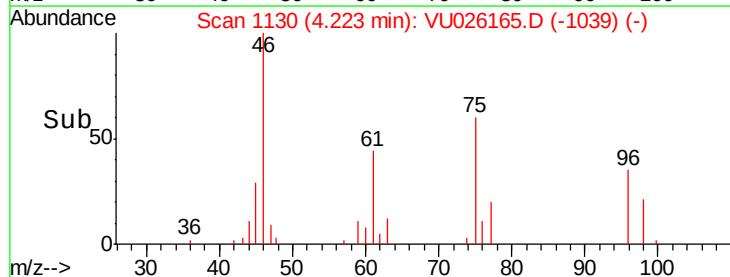
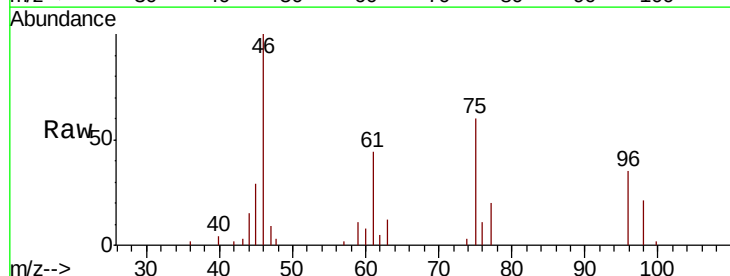
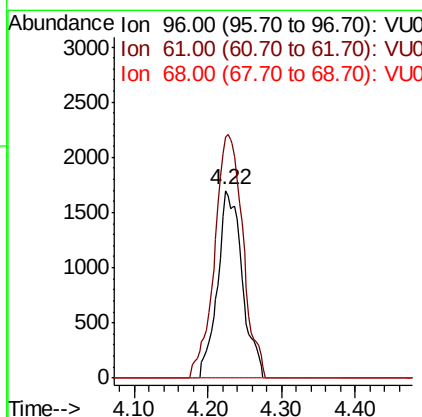
Manual Integrations  
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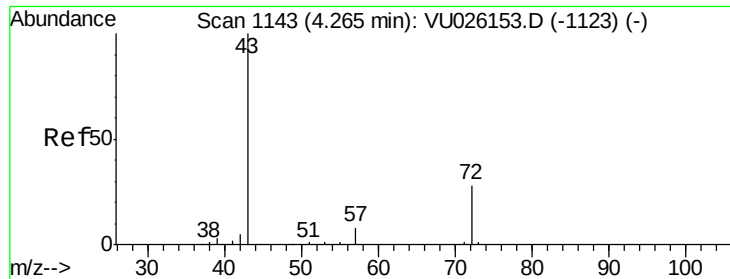
MMDadoda  
 8/16/2018 4:20:28 PM



#20  
 cis-1,2-Dichloroethene  
 Concen: 2.04 ug/L m  
 RT: 4.22 min Scan# 1130  
 Delta R.T. -0.01 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 128.3 | 88.6  | 164.6 |
| 68      | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 4.04 ug/L m

RT: 4.27 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 5687

Ion Ratio Lower Upper

43 100

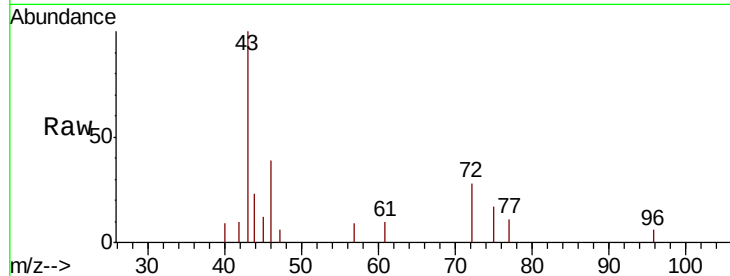
72 10.4 13.4 40.1#

Manual Integrations

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MMDadoda

8/16/2018 4:20:28 PM



Abundance Ion 43.00 (42.70 to 43.70): VU026165.D (-1143) (-)

Ion 72.00 (71.70 to 72.70): VU026165.D (-1143) (-)

4.27

2000

1500

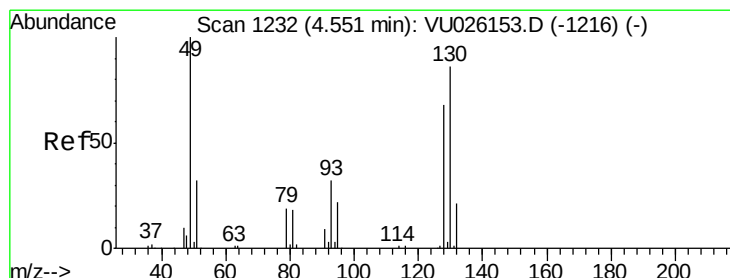
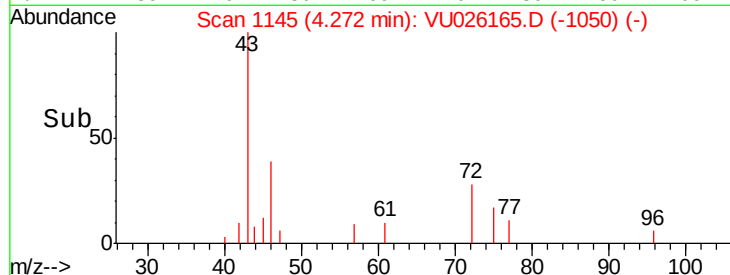
1000

500

0

4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 1.98 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Tgt Ion:128 Resp: 2064

Ion Ratio Lower Upper

128 100

49 132.0 101.3 188.1

130 109.1 86.4 160.4

51 53.4 38.1 57.1

Abundance Ion 128.00 (127.70 to 128.70): VU026165.D (-1232) (-)

Ion 49.00 (48.70 to 49.70): VU026165.D (-1232) (-)

Ion 130.00 (129.70 to 130.70): VU026165.D (-1232) (-)

Ion 51.00 (50.70 to 51.70): VU026165.D (-1232) (-)

2000

1500

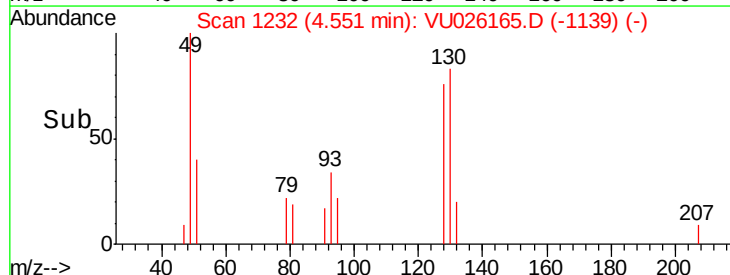
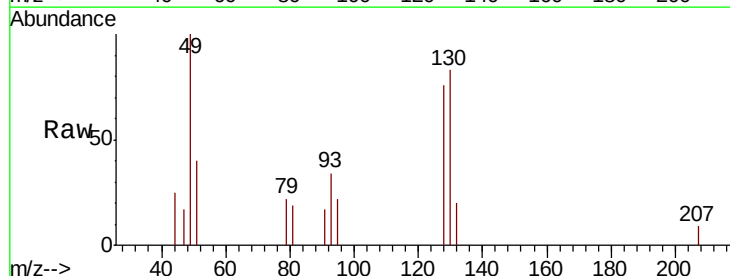
1000

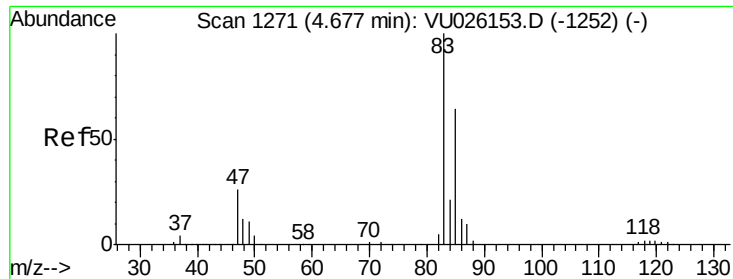
500

0

4.50 4.55 4.60

Time-->





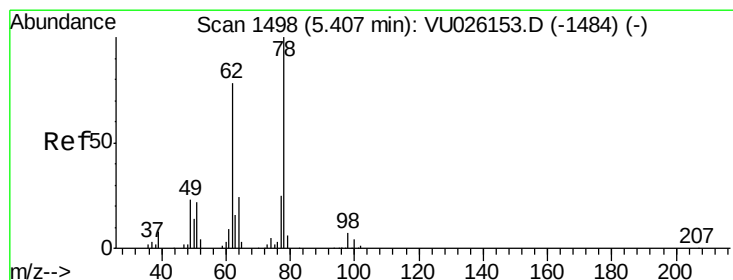
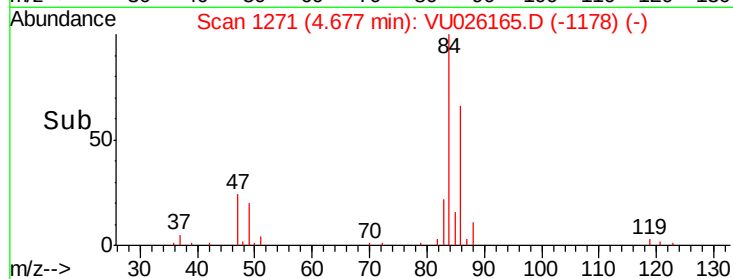
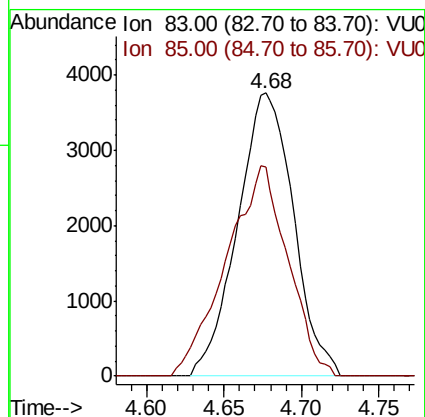
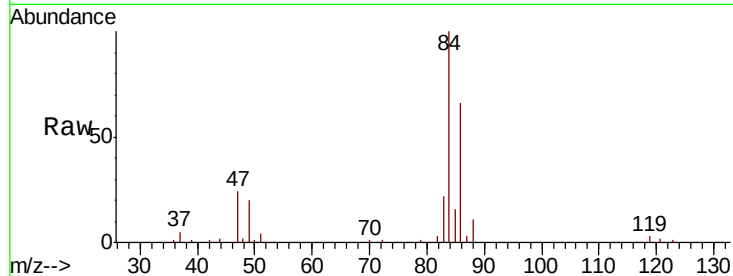
#25  
Chloroform  
Concen: 2.72 ug/L  
RT: 4.68 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL03

| Tot Ion   | 83   | Resp  | 9456  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 85        | 73.8 | 46.3  | 86.1  |

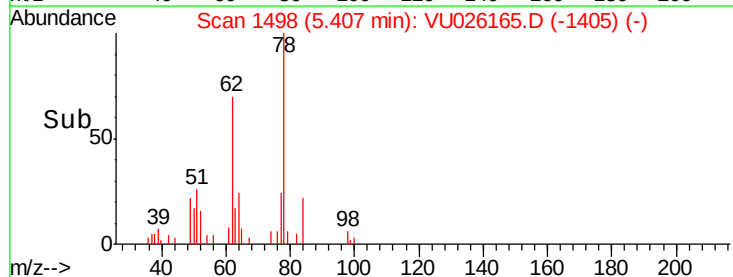
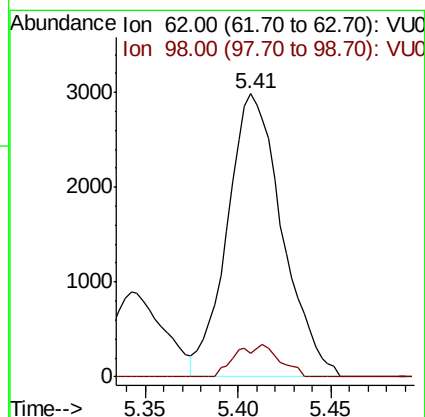
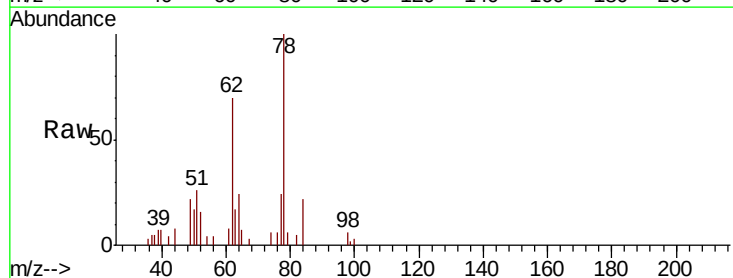
Manual Integrations  
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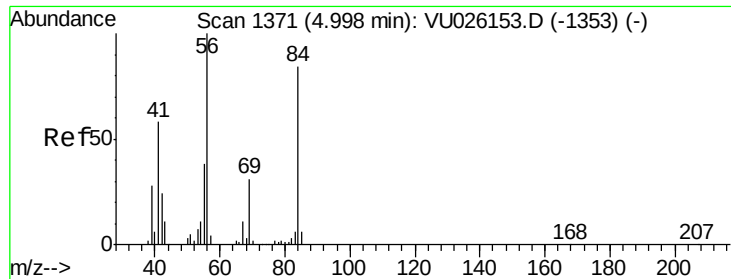
MMDadoda  
8/16/2018 4:20:28 PM



#27  
1,2-Dichloroethane  
Concen: 2.19 ug/L  
RT: 5.41 min Scan# 1498  
Delta R.T. -0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

| Tgt Ion   | 62  | Resp  | 6153  |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 98        | 8.3 | 7.0   | 10.4  |





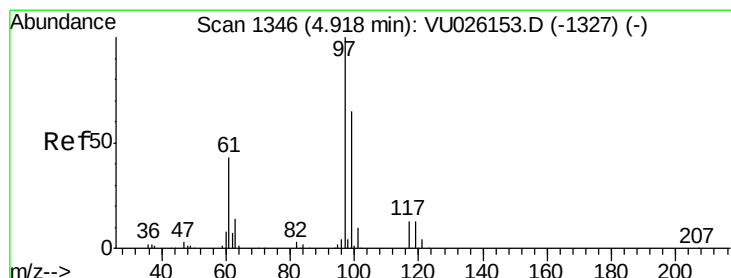
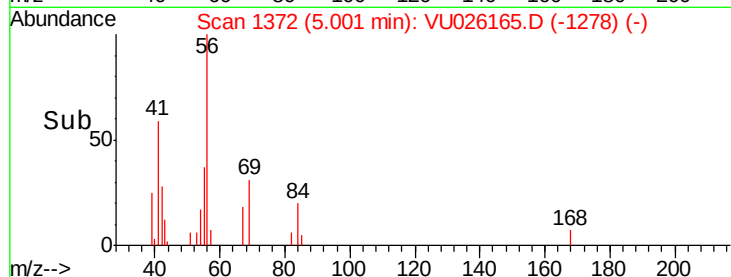
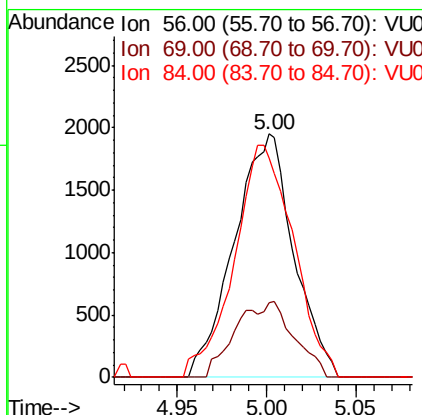
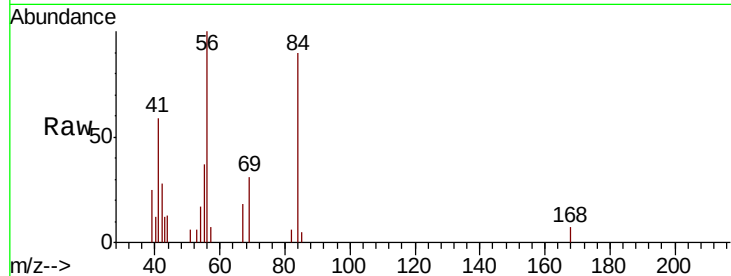
#29  
Cyclohexane  
Concen: 1.75 ug/L  
RT: 5.00 min Scan# 1372  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 13.7  | 24.1  | 36.1# |
| 84      | 95.1  | 68.6  | 102.8 |

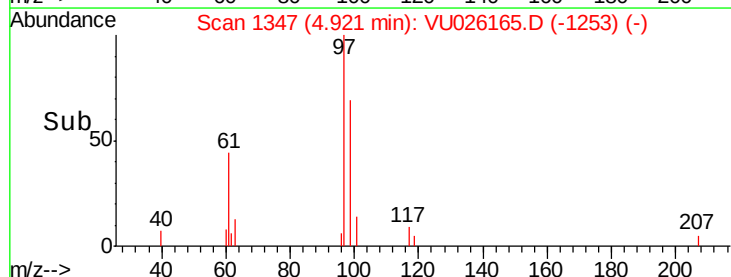
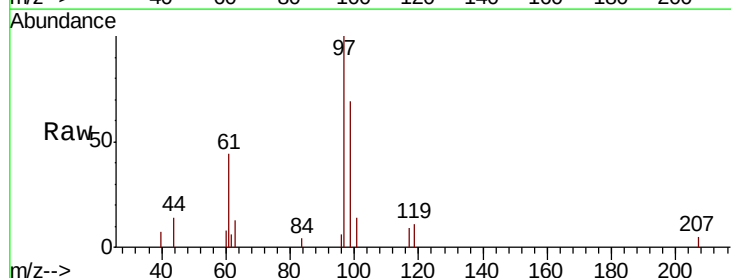
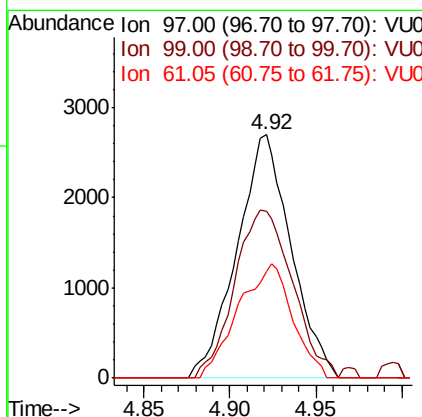
Manual Integrations  
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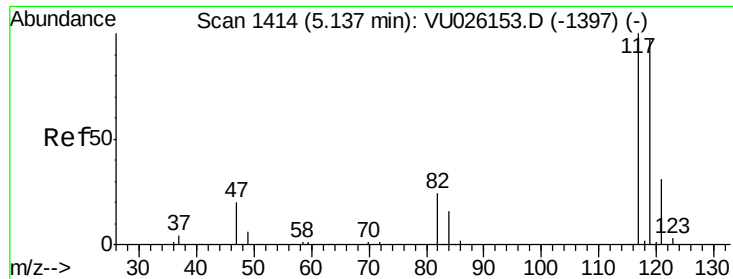
MMDadoda  
8/16/2018 4:20:28 PM



#30  
1,1,1-Trichloroethane  
Concen: 1.91 ug/L  
RT: 4.92 min Scan# 1347  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 74.0  | 52.2  | 78.2  |
| 61      | 47.0  | 35.4  | 53.0  |





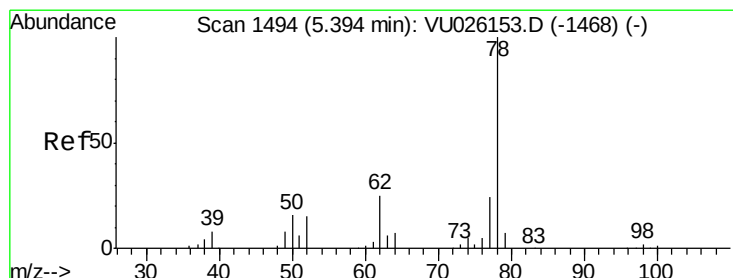
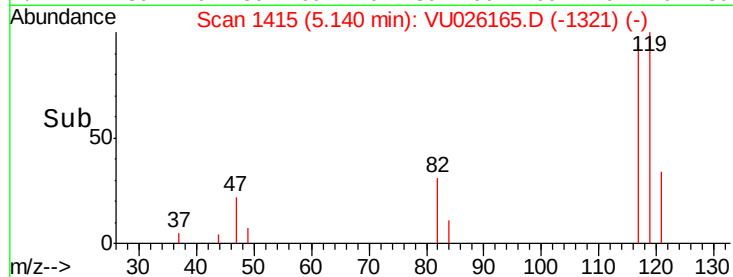
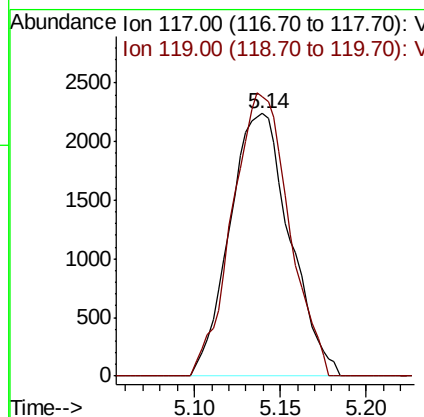
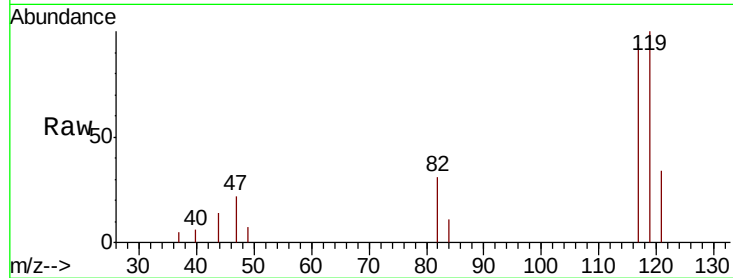
#31  
Carbon tetrachloride  
Concen: 1.95 ug/L  
RT: 5.14 min Scan# 1415  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL03

Tot Ion:117 Resp: 5453  
Ion Ratio Lower Upper  
117 100  
119 101.7 77.4 116.2

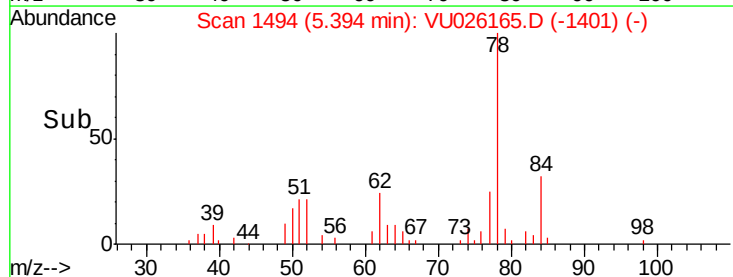
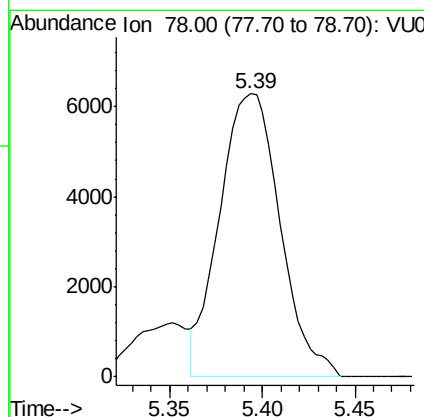
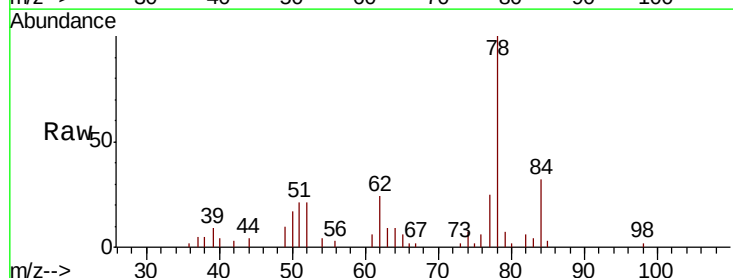
Manual Integrations  
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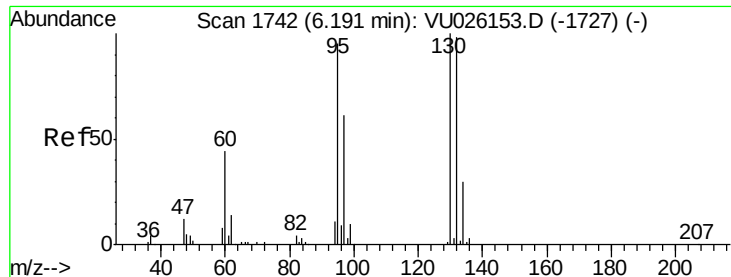
MMDadoda  
8/16/2018 4:20:28 PM



#33  
Benzene  
Concen: 2.04 ug/L  
RT: 5.39 min Scan# 1494  
Delta R.T. -0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Tgt Ion: 78 Resp: 14268





#34

Trichloroethene

Concen: 2.08 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

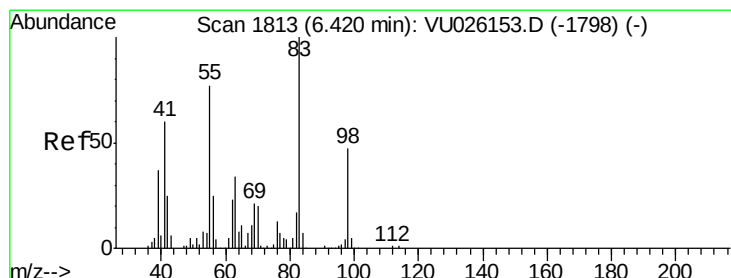
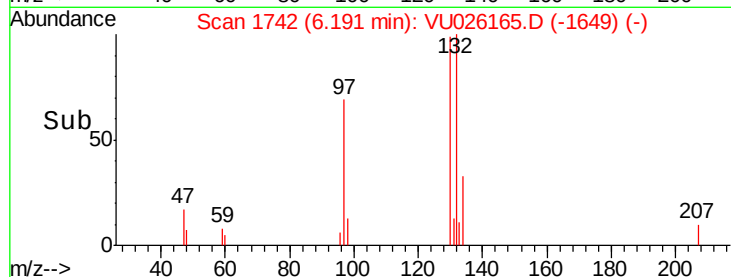
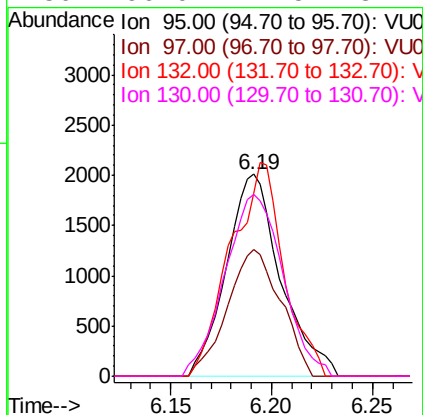
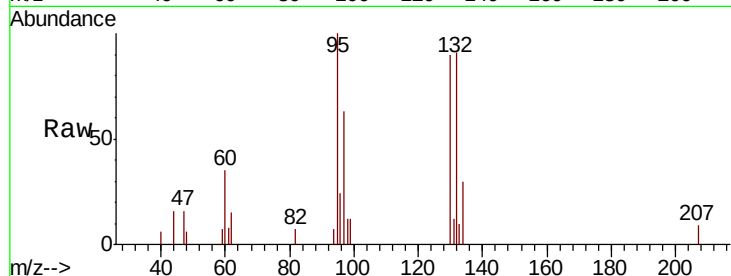
ClientSampleId :

MDL03

| Tot Ion | 95    | Resp: | 3790  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 95      | 100   |       |       |
| 97      | 63.0  | 45.7  | 84.9  |
| 132     | 90.8  | 68.8  | 127.8 |
| 130     | 90.0  | 71.5  | 132.7 |

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#35

Methylcyclohexane

Concen: 1.63 ug/L

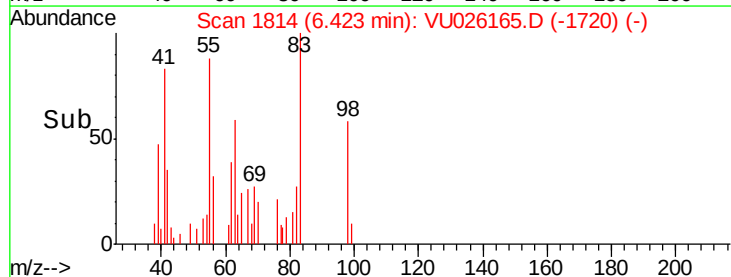
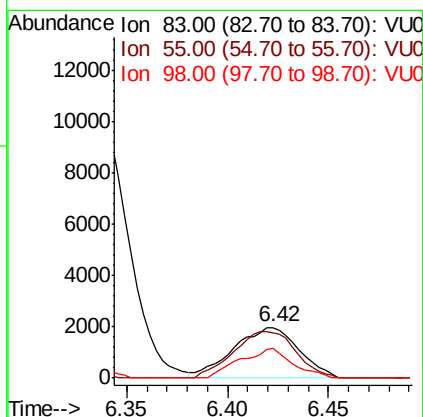
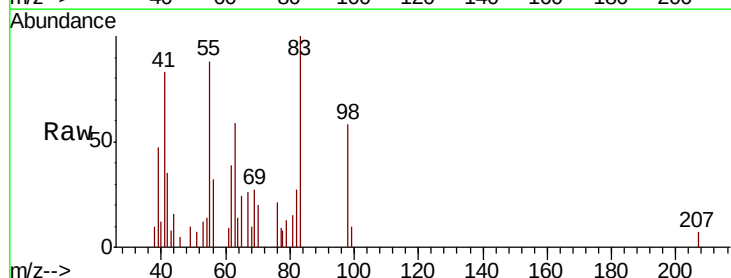
RT: 6.42 min Scan# 1814

Delta R.T. 0.00 min

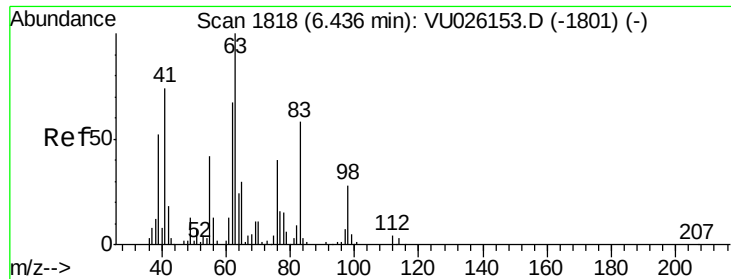
Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

| Tgt Ion | 83    | Resp: | 4468  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 83      | 100   |       |       |
| 55      | 87.4  | 61.0  | 91.6  |
| 98      | 46.7  | 37.6  | 56.4  |







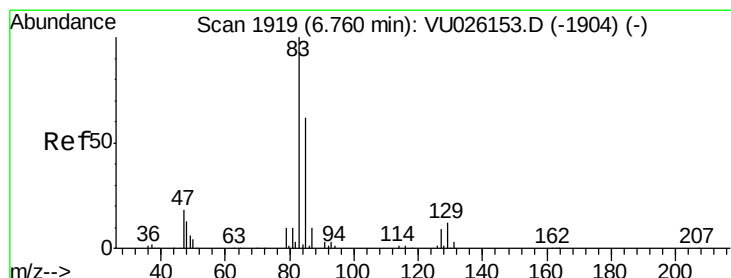
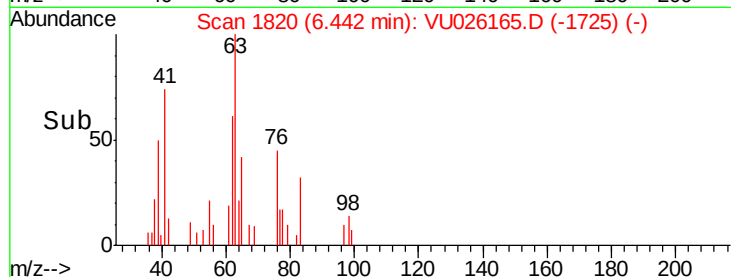
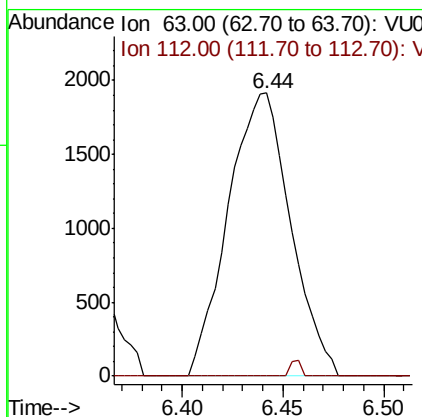
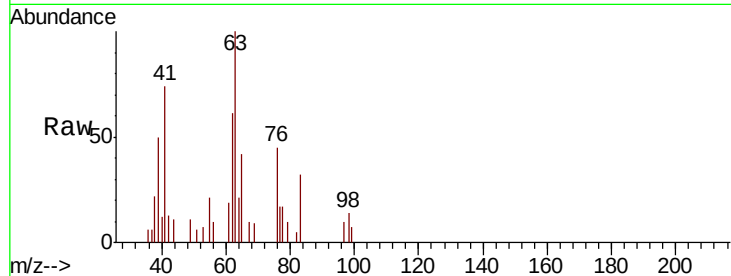
#37  
 1,2-Dichloropropane  
 Concen: 2.12 ug/L  
 RT: 6.44 min Scan# 1820  
 Delta R.T. 0.01 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

Tot Ion: 63 Resp: 4143  
 Ion Ratio Lower Upper  
 63 100  
 112 1.0 3.5 5.3#

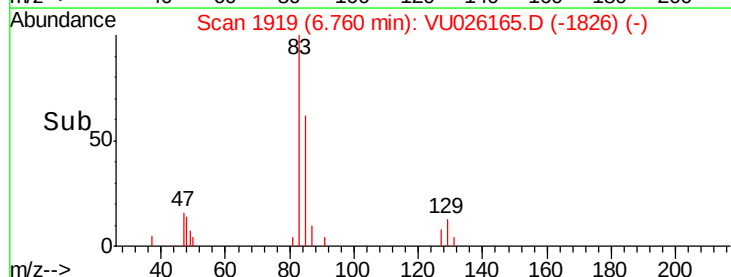
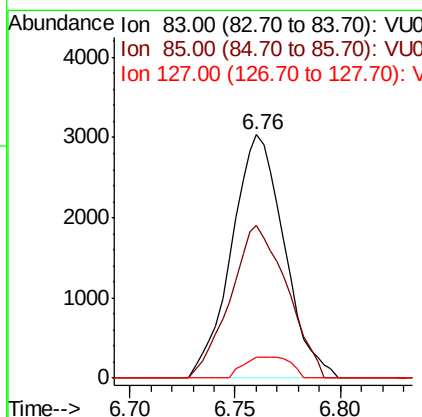
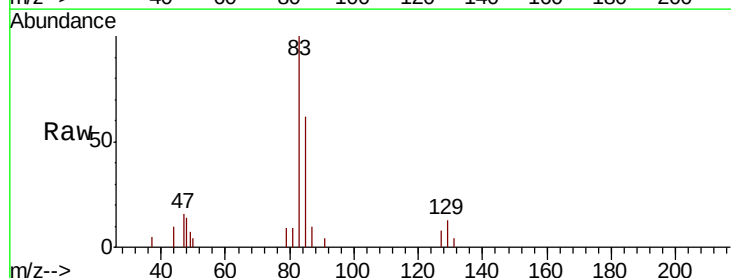
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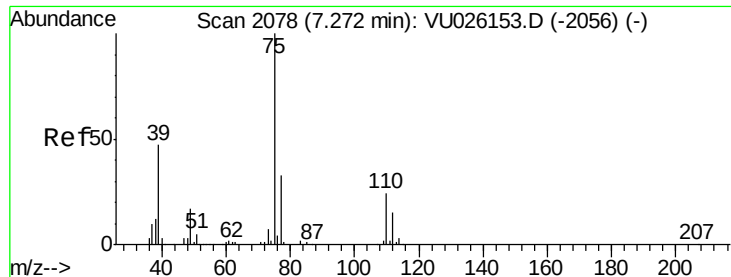
MMDadoda  
 8/16/2018 4:20:28 PM



#38  
 Bromodichloromethane  
 Concen: 2.03 ug/L  
 RT: 6.76 min Scan# 1919  
 Delta R.T. -0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Tgt Ion: 83 Resp: 5259  
 Ion Ratio Lower Upper  
 83 100  
 85 62.5 46.0 85.4  
 127 8.5 7.5 11.3





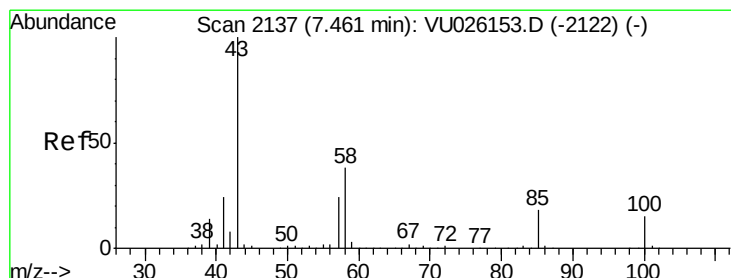
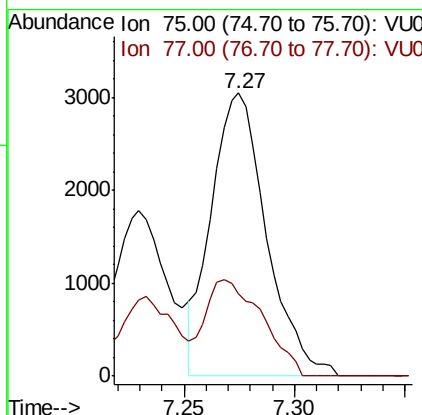
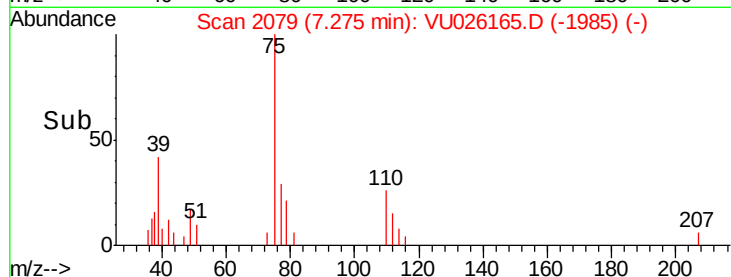
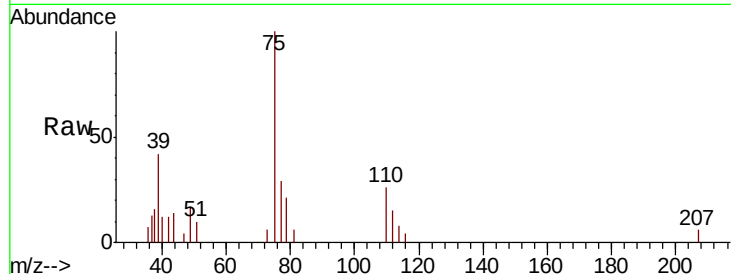
#39  
 cis-1,3-Dichloropropene  
 Concen: 1.82 ug/L  
 RT: 7.27 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

Tot Ion: 75 Resp: 5291  
 Ion Ratio Lower Upper  
 75 100  
 77 29.2 22.2 41.2

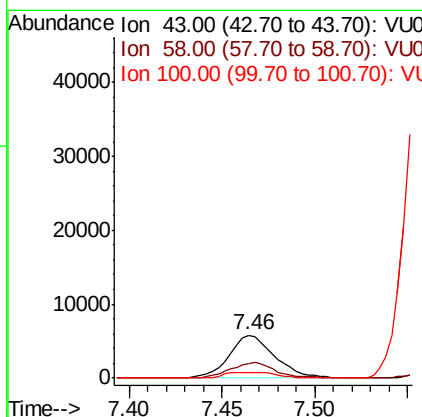
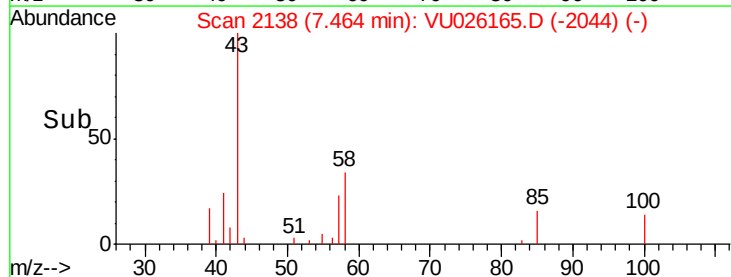
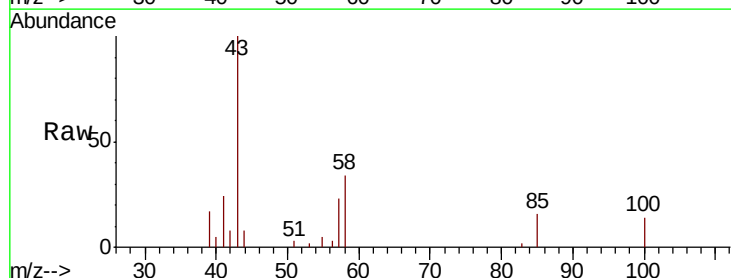
Manual Integrations  
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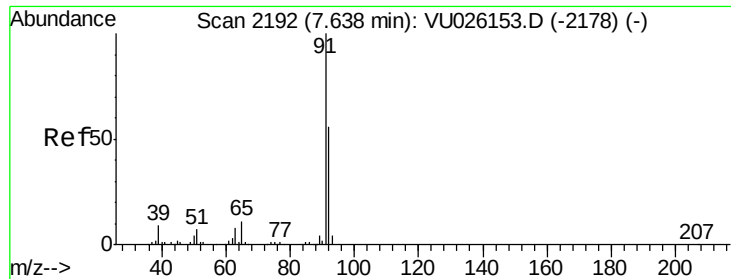
MMDadoda  
 8/16/2018 4:20:28 PM



#40  
 4-Methyl-2-pentanone  
 Concen: 4.09 ug/L  
 RT: 7.46 min Scan# 2138  
 Delta R.T. 0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Tgt Ion: 43 Resp: 9916  
 Ion Ratio Lower Upper  
 43 100  
 58 35.8 31.8 47.8  
 100 14.6 12.2 18.2





#42

Toluene

Concen: 2.01 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

ClientSampled :

MDL03

Tot Ion: 91 Resp: 14955

Ion Ratio Lower Upper

91 100

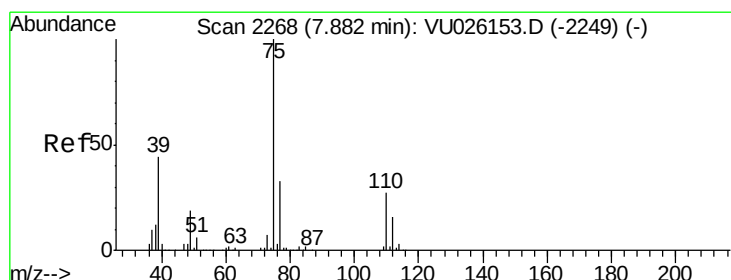
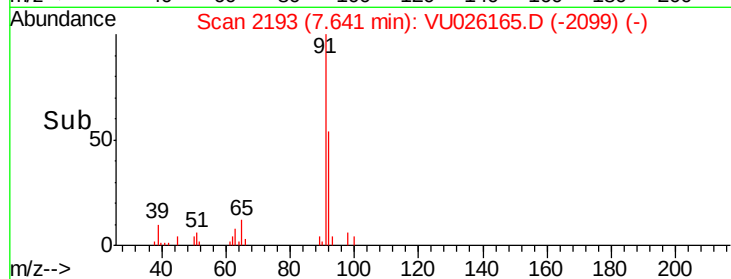
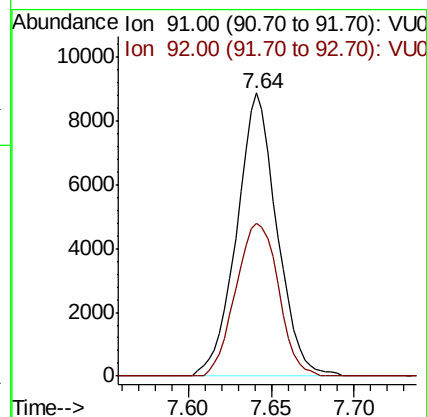
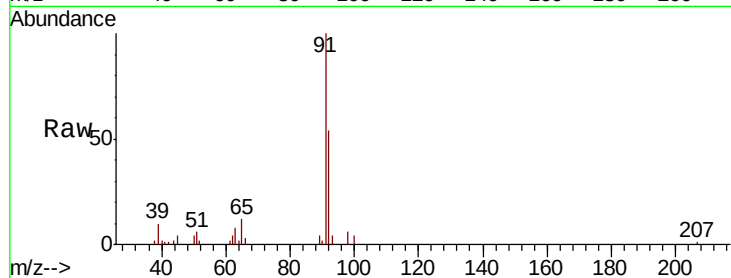
92 54.0 40.0 74.4

Manual Integrations

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MMDadoda

8/16/2018 4:20:28 PM



#44

trans-1,3-Dichloropropene

Concen: 2.02 ug/L m

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026165.D

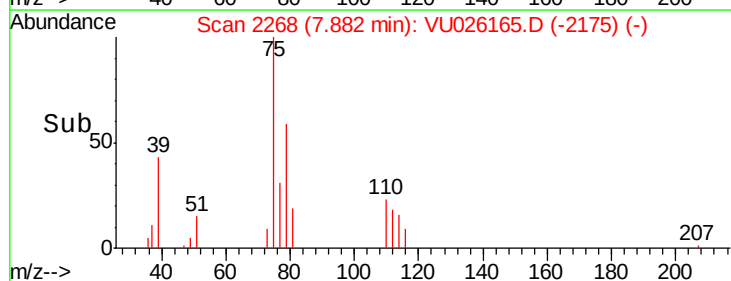
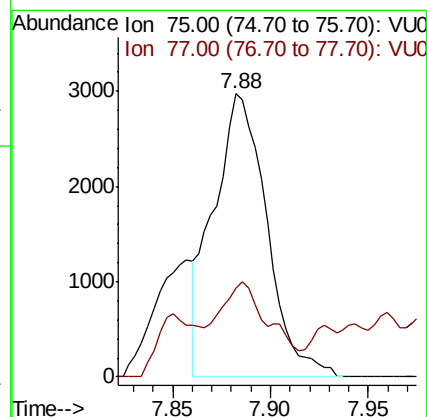
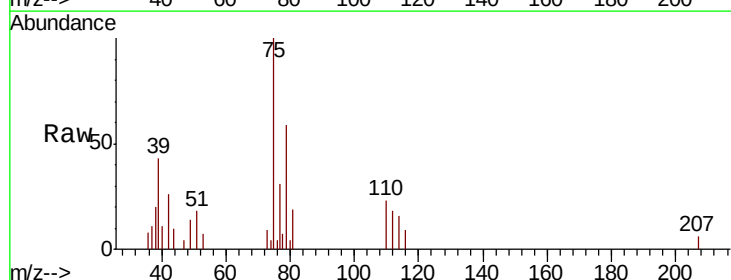
Acq: 15 Aug 2018 23:14

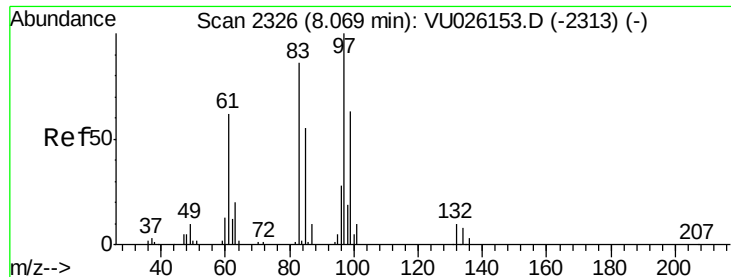
Tgt Ion: 75 Resp: 5657

Ion Ratio Lower Upper

75 100

77 31.2 22.0 41.0





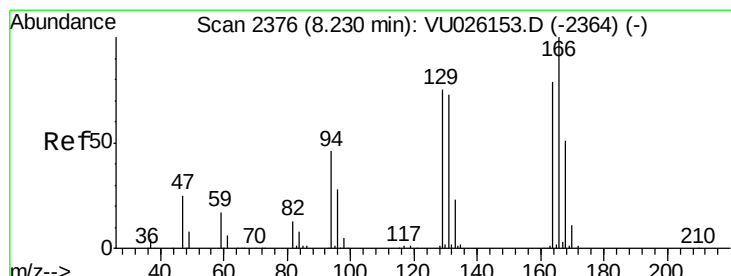
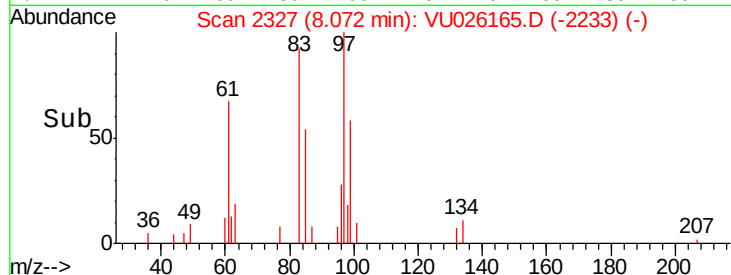
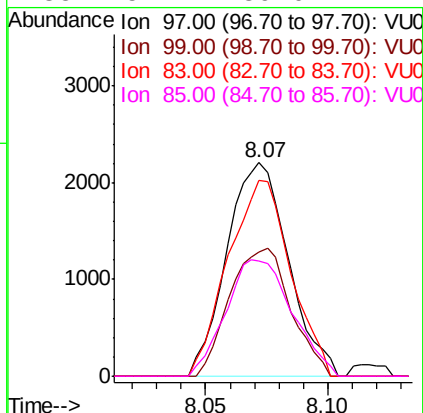
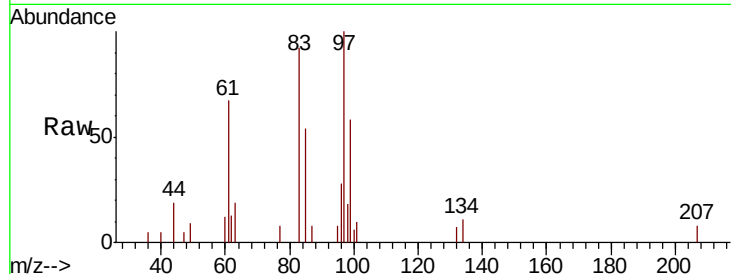
#45  
 1,1,2-Trichloroethane  
 Concen: 2.09 ug/L  
 RT: 8.07 min Scan# 2327  
 Delta R.T. 0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 3869  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 58.2  | 43.3  | 80.5  |
| 83       | 91.9  | 58.4  | 108.6 |
| 85       | 54.1  | 39.0  | 72.4  |

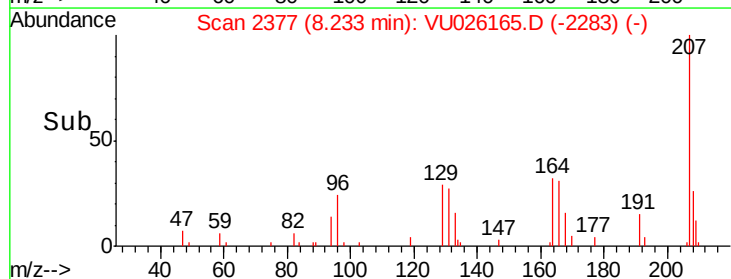
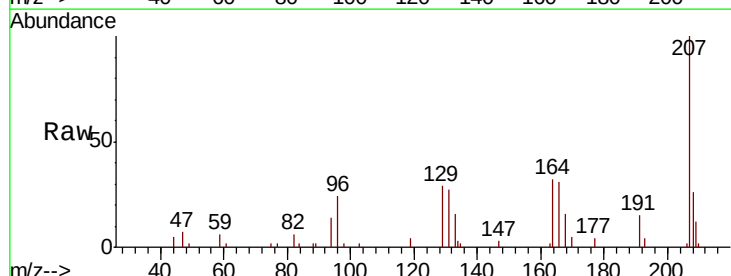
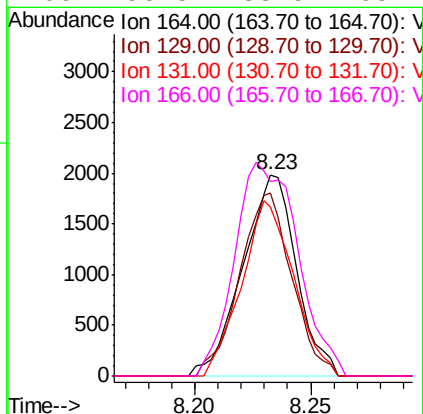
Manual Integrations  
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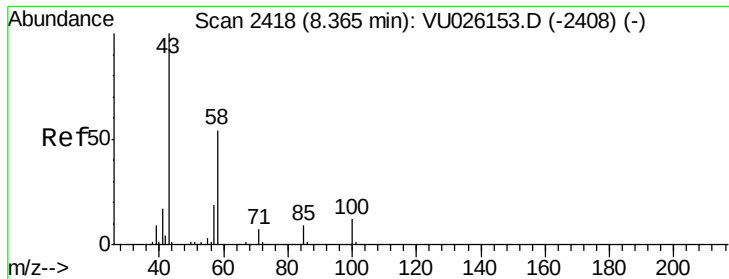
MMDadoda  
 8/16/2018 4:20:28 PM



#46  
 Tetrachloroethene  
 Concen: 2.02 ug/L  
 RT: 8.23 min Scan# 2377  
 Delta R.T. 0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 3173  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 90.7  | 65.7  | 121.9 |
| 131      | 84.0  | 62.0  | 115.2 |
| 166      | 96.5  | 88.9  | 165.1 |





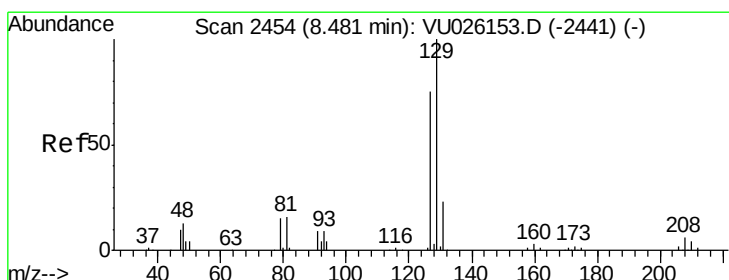
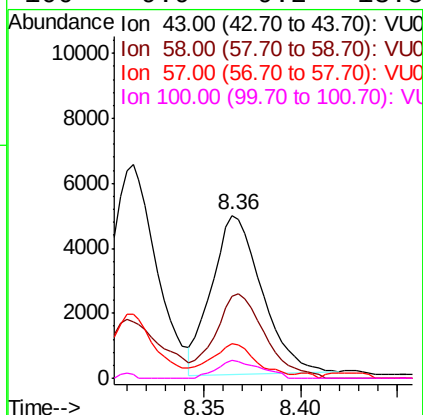
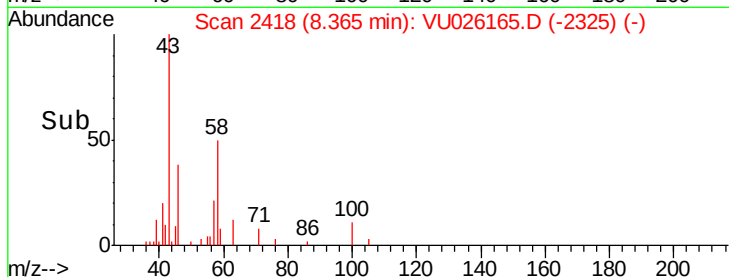
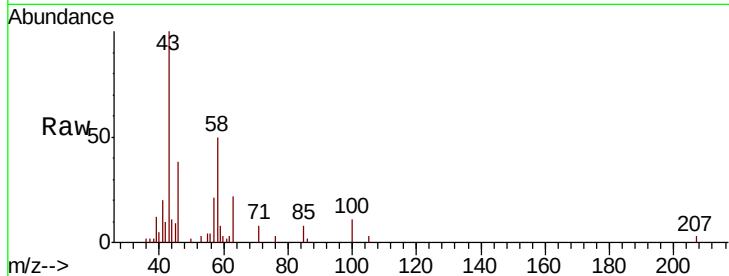
#48  
2-Hexanone  
Concen: 4.63 ug/L  
RT: 8.36 min Scan# 2418  
Delta R.T. -0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL03

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 8792  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 52.9  | 42.9  | 64.3  |
| 57       | 16.9  | 15.1  | 22.7  |
| 100      | 9.9   | 9.2   | 13.8  |

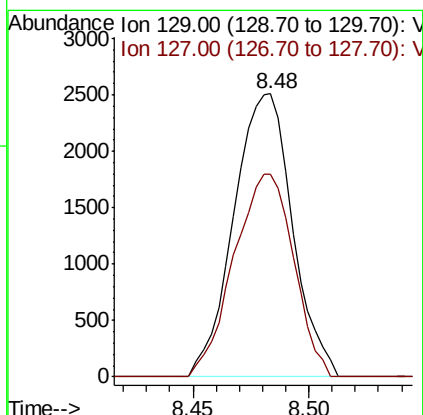
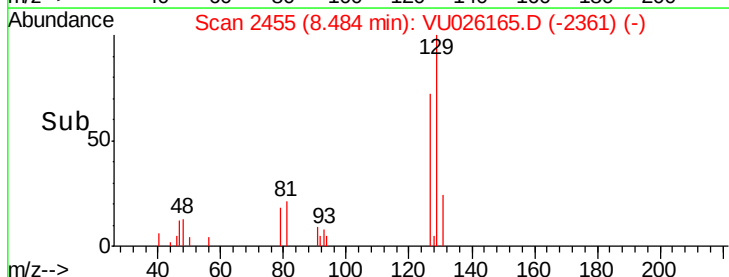
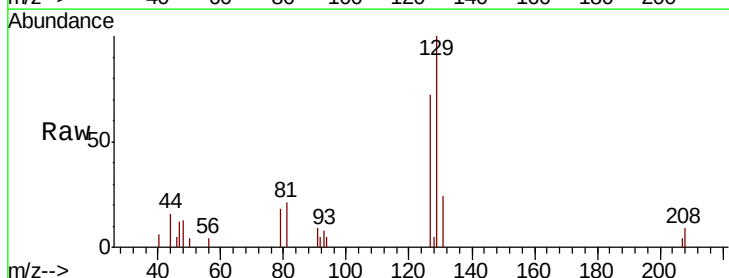
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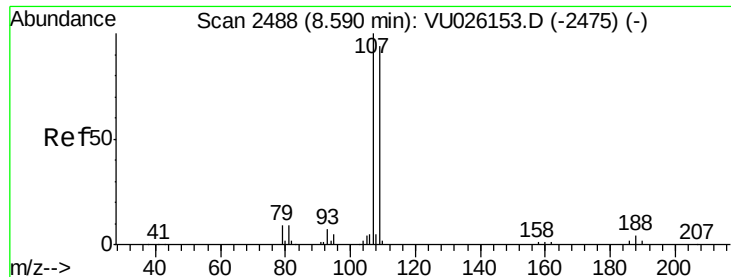
MMDadoda  
8/16/2018 4:20:28 PM



#49  
Dibromochloromethane  
Concen: 1.98 ug/L  
RT: 8.48 min Scan# 2455  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 4415  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 71.6  | 54.6  | 101.4 |





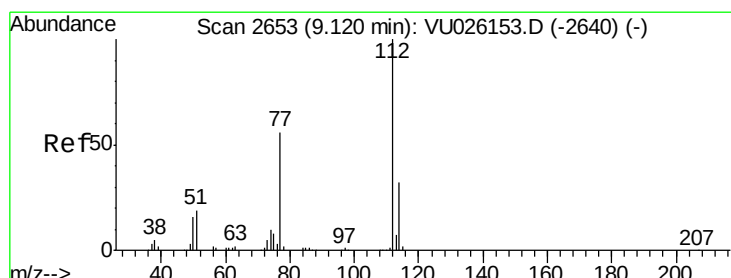
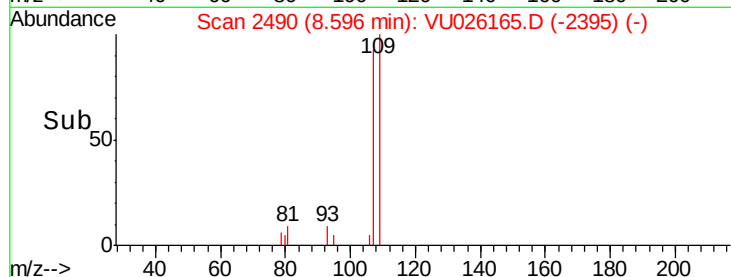
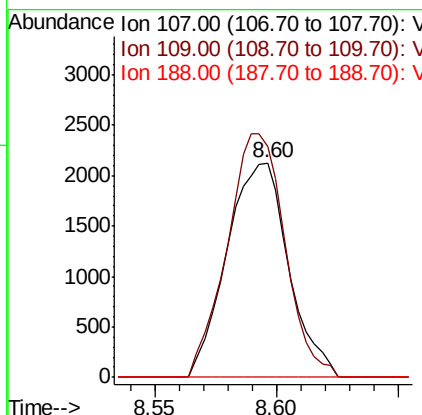
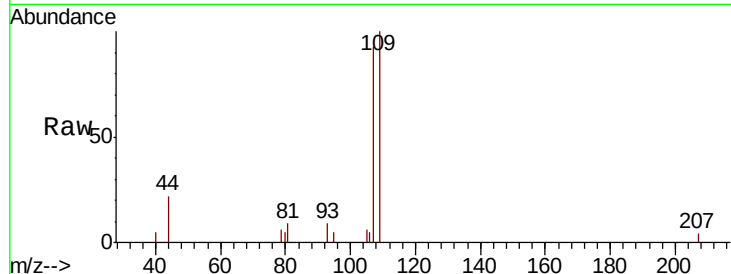
#50  
 1,2-Dibromoethane  
 Concen: 1.94 ug/L  
 RT: 8.60 min Scan# 2490  
 Delta R.T. 0.01 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   | 3733 |       |       |
| 109     | 107.6 | 66.1 | 122.7 |       |
| 188     | 0.0   | 3.2  | 4.8#  |       |

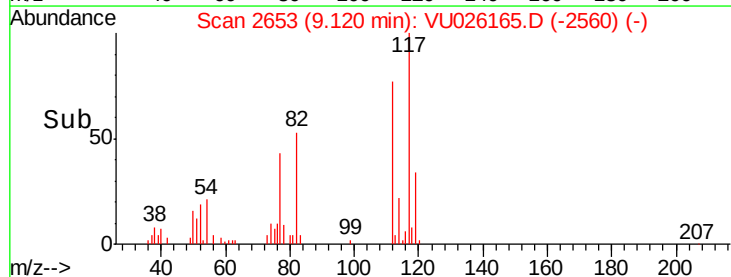
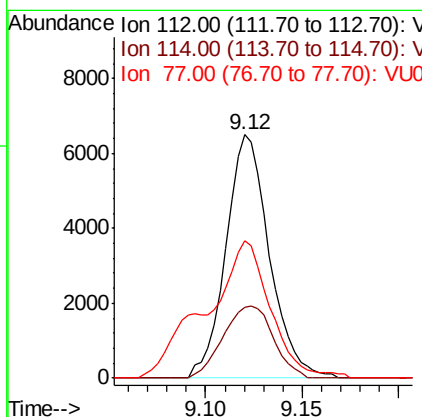
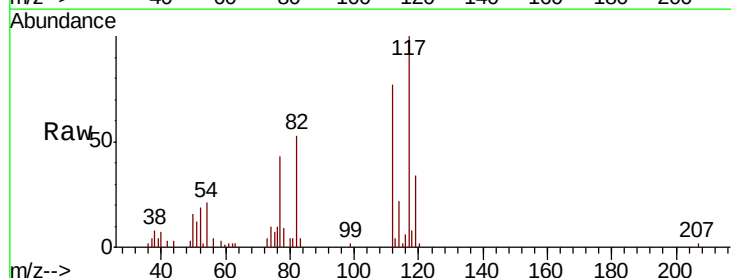
Manual Integrations  
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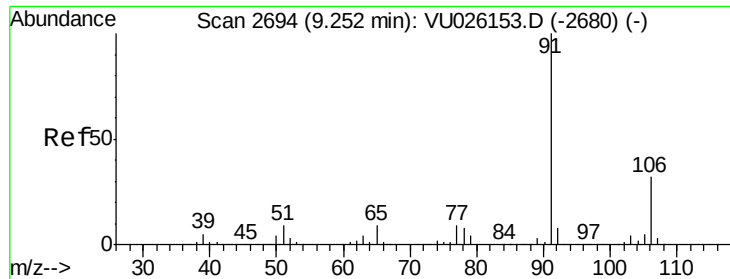
MMDadoda  
 8/16/2018 4:20:28 PM



#51  
 Chlorobenzene  
 Concen: 2.00 ug/L  
 RT: 9.12 min Scan# 2653  
 Delta R.T. -0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 10135 |       |       |
| 114     | 28.9  | 22.5  | 41.9  |       |
| 77      | 56.5  | 45.0  | 67.4  |       |





#52

Ethylbenzene

Concen: 1.75 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Tot Ion: 91 Resp: 14165

Ion Ratio Lower Upper

91 100

106 37.5 22.3 41.5

Instrument :

MSVOA\_U

ClientSampled :

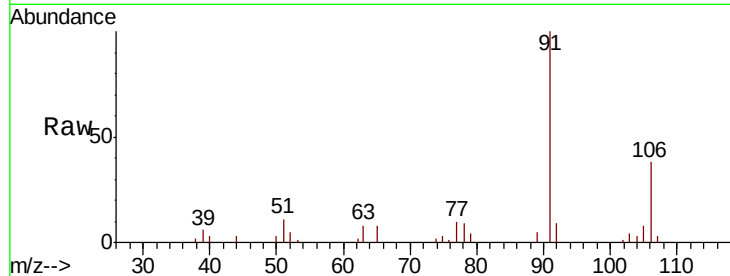
MDL03

Manual Integrations

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8/16/2018 4:20:28 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026165.D (-2680) (-)

Ion 106.00 (105.70 to 106.70): VU026165.D (-2680) (-)

9.25

8000

6000

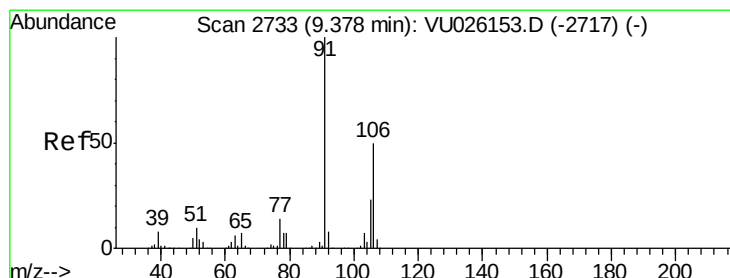
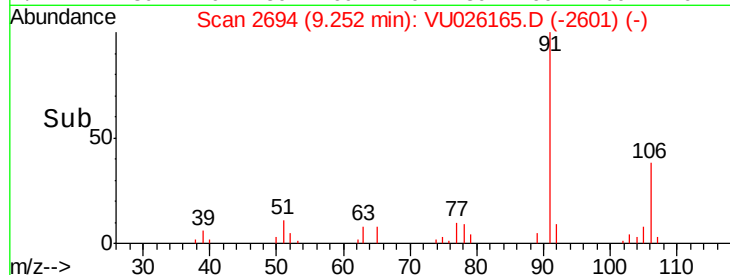
4000

2000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 1.71 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026165.D

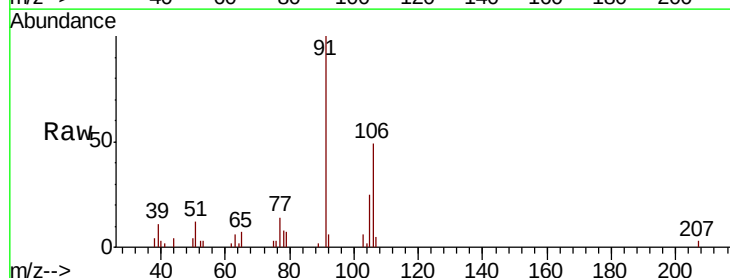
Acq: 15 Aug 2018 23:14

Tgt Ion: 106 Resp: 5347

Ion Ratio Lower Upper

106 100

91 203.5 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): VU026165.D (-2733) (-)

Ion 91.00 (90.70 to 91.70): VU026165.D (-2733) (-)

9.38

6000

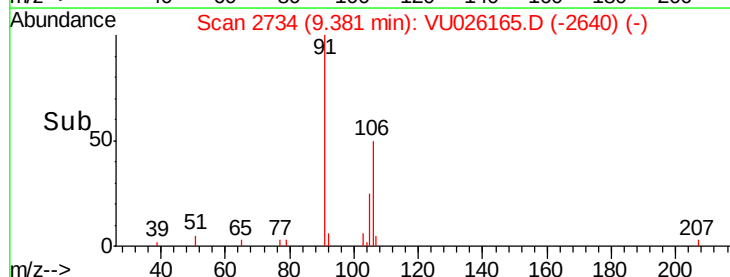
4000

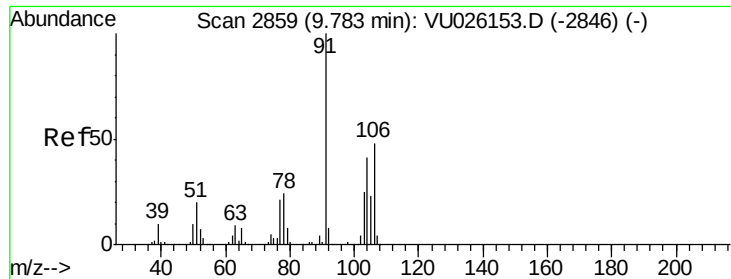
2000

0

9.35 9.40

Time-->





#54

o-xylene

Concen: 1.60 ug/L

RT: 9.79 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

ClientSampled :

MDL03

Tot Ion:106 Resp: 4974

Ion Ratio Lower Upper

106 100

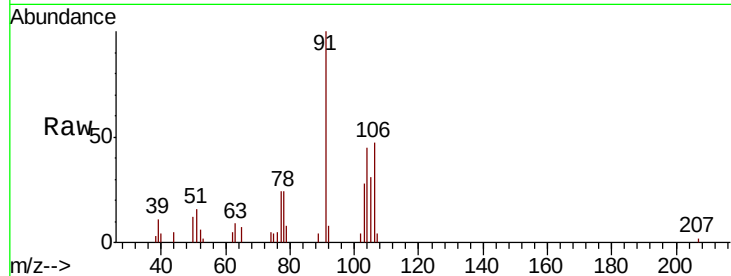
91 211.2 148.0 274.8

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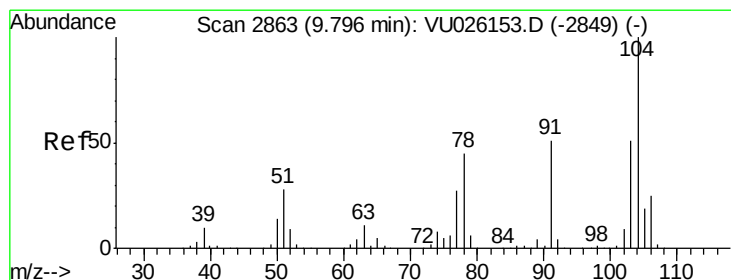
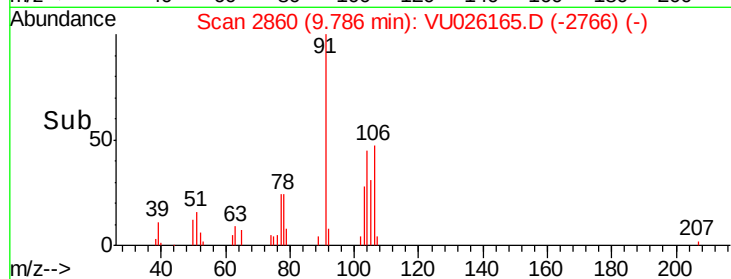
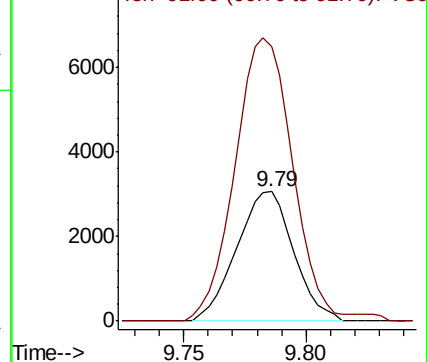
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.52 ug/L

RT: 9.79 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VU026165.D

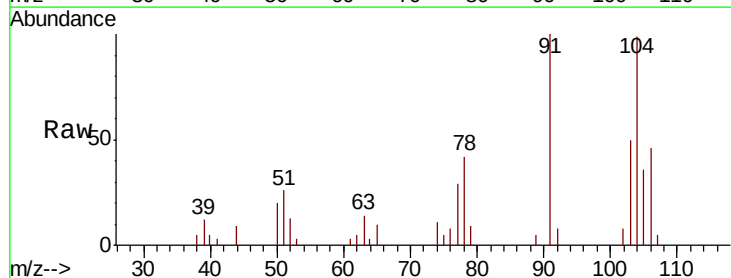
Acq: 15 Aug 2018 23:14

Tgt Ion:104 Resp: 7899

Ion Ratio Lower Upper

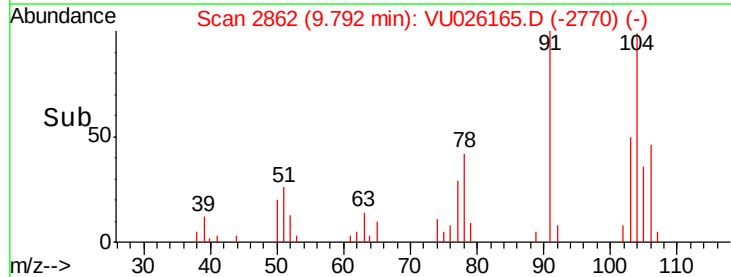
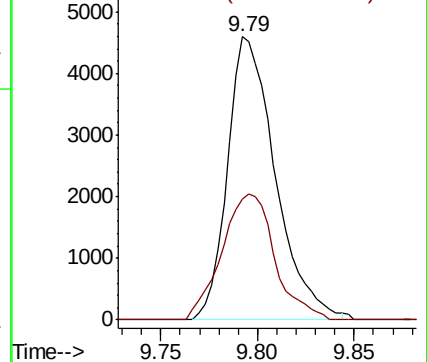
104 100

78 42.6 30.9 57.5

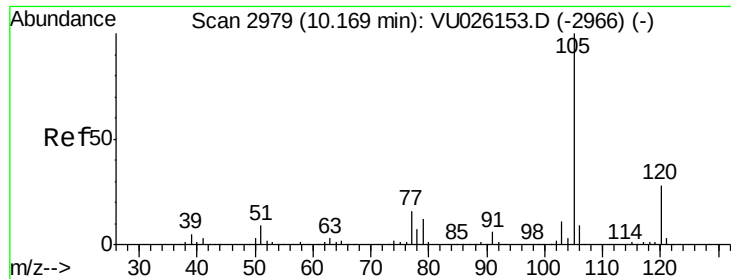


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0







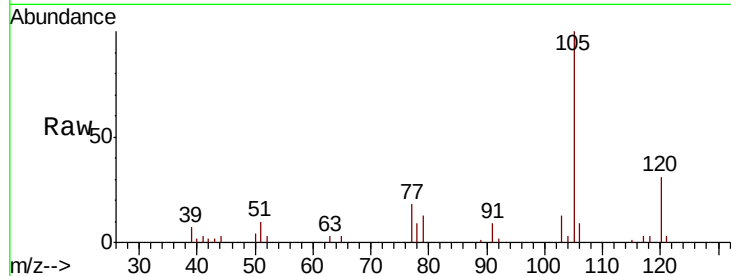
#56  
Isopropylbenzene  
Concen: 1.45 ug/L  
RT: 10.17 min Scan# 2980  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 28.5  | 21.5  | 32.3  |
| 77      | 17.3  | 12.3  | 18.5  |

Manual Integrations  
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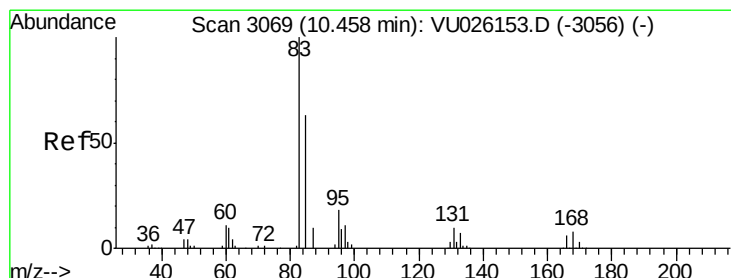
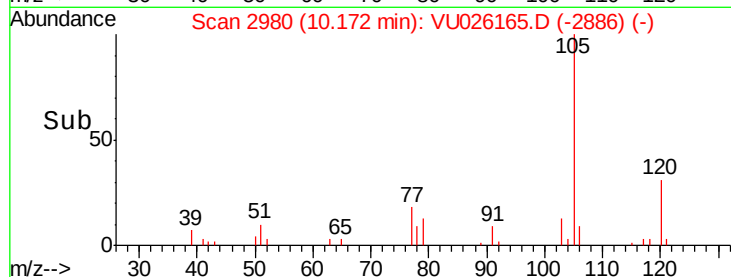
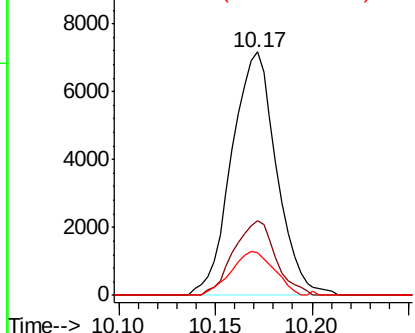


Abundance

Ion 105.00 (104.70 to 105.70): V

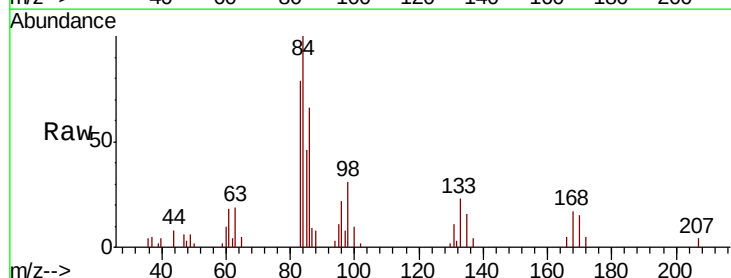
Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58  
1,1,2,2-Tetrachloroethane  
Concen: 2.24 ug/L  
RT: 10.46 min Scan# 3070  
Delta R.T. 0.00 min  
Lab File: VU026165.D  
Acq: 15 Aug 2018 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 58.1  | 45.0  | 83.6  |
| 131     | 13.5  | 8.4   | 12.6  |

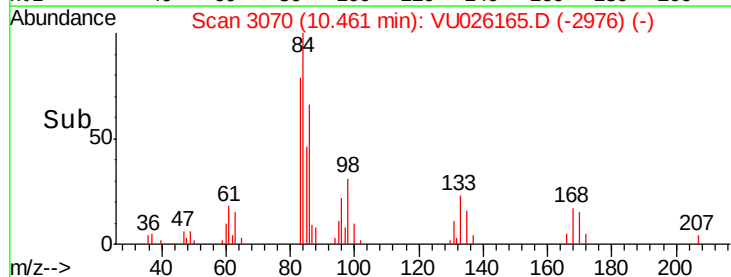
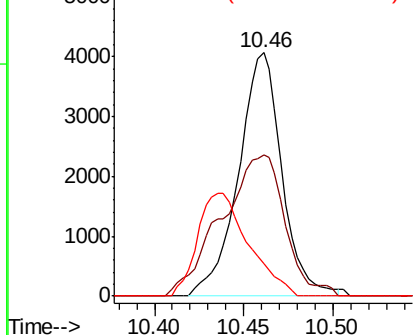


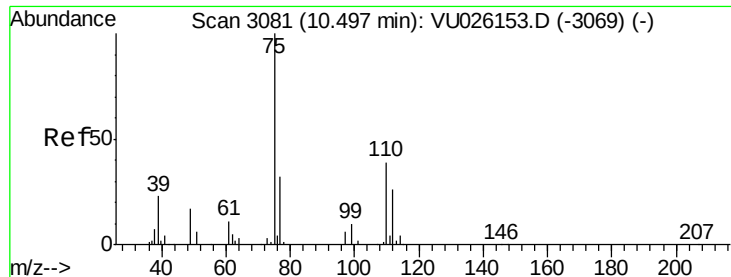
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





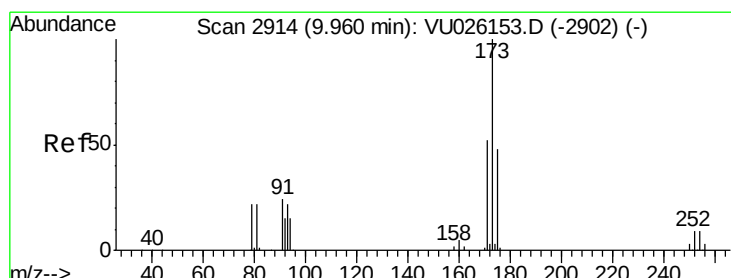
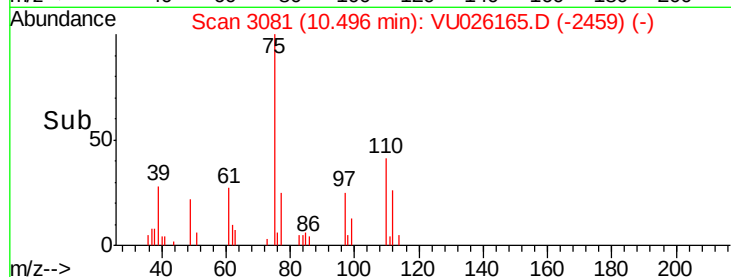
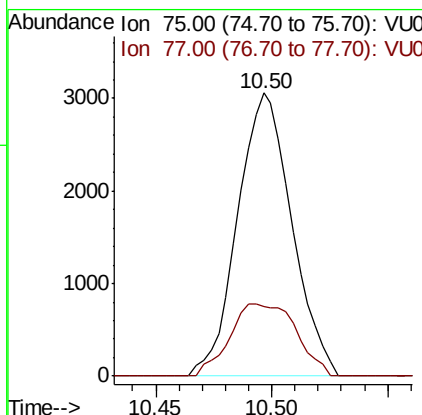
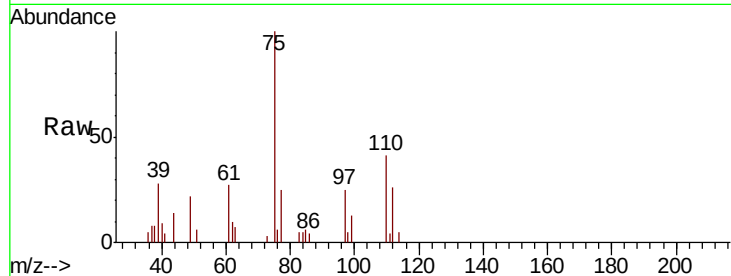
#59  
 1,2,3-Trichloropropane  
 Concen: 2.06 ug/L  
 RT: 10.50 min Scan# 3081  
 Delta R.T. -0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

Tot Ion: 75 Resp: 4967  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 26.1 39.1

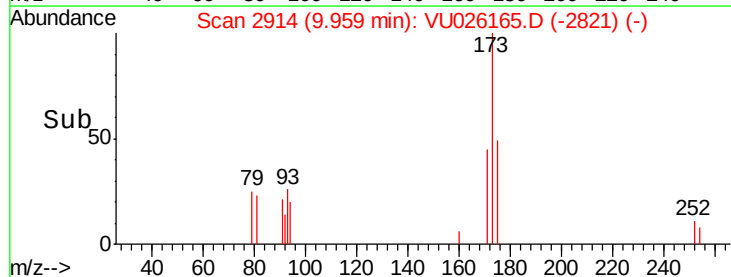
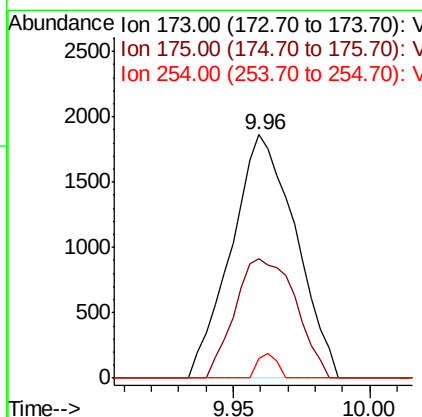
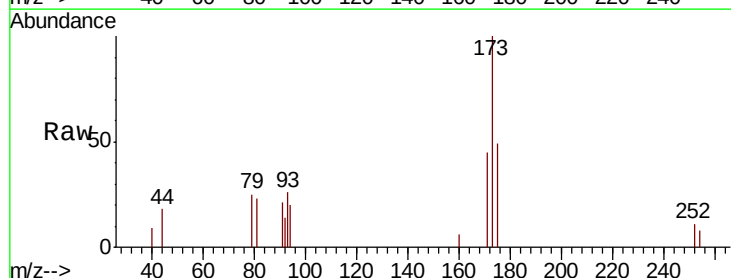
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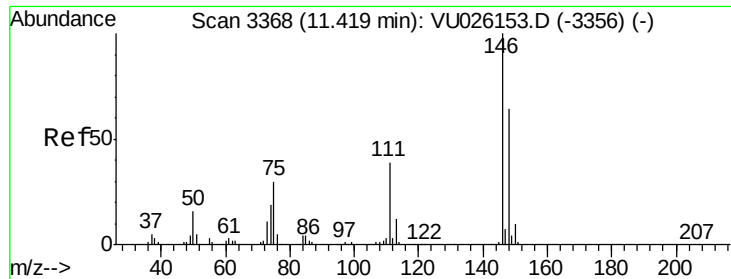
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#61  
 Bromoform  
 Concen: 2.13 ug/L  
 RT: 9.96 min Scan# 2914  
 Delta R.T. -0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Tgt Ion: 173 Resp: 3050  
 Ion Ratio Lower Upper  
 173 100  
 175 46.4 38.8 58.2  
 254 3.0 7.3 10.9#





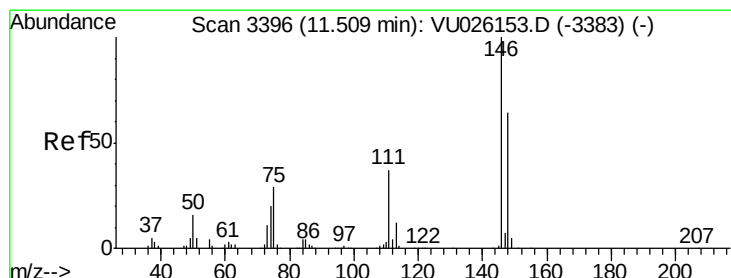
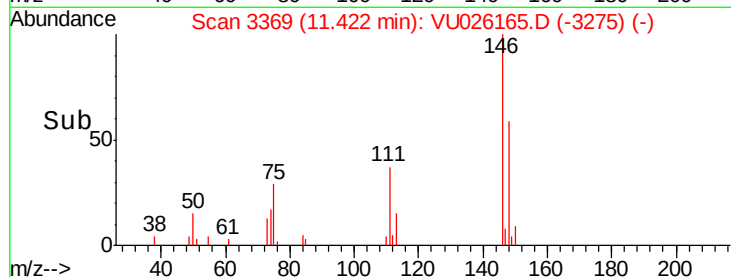
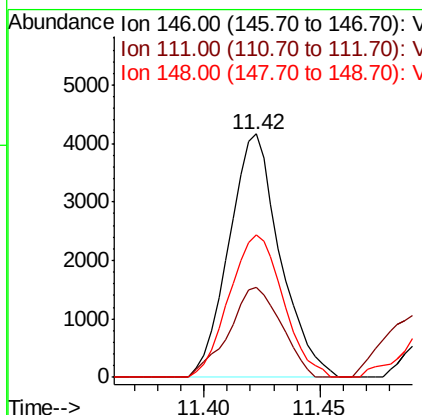
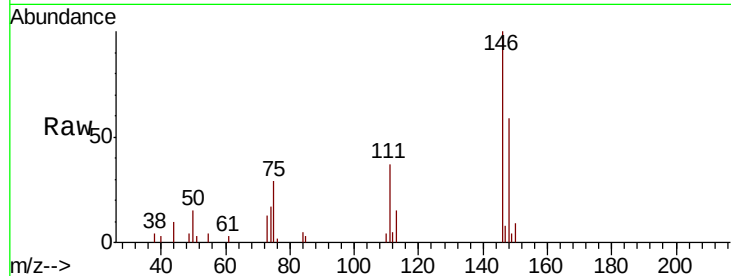
#62  
 1,3-Dichlorobenzene  
 Concen: 1.94 ug/L  
 RT: 11.42 min Scan# 3369  
 Delta R.T. 0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 MDL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.9  | 26.7  | 49.7  |
| 148     | 58.5  | 44.1  | 81.9  |

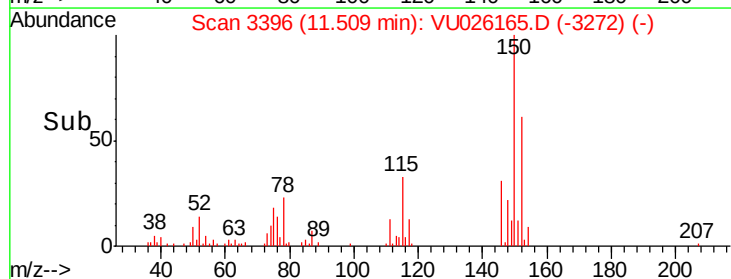
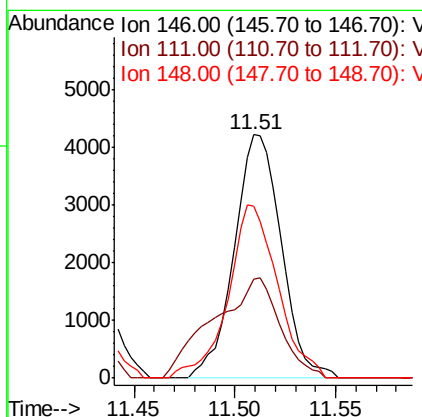
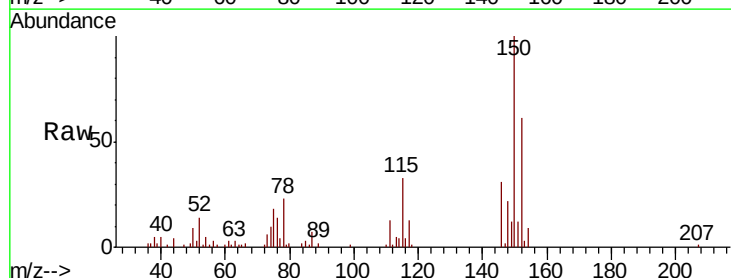
Manual Integrations  
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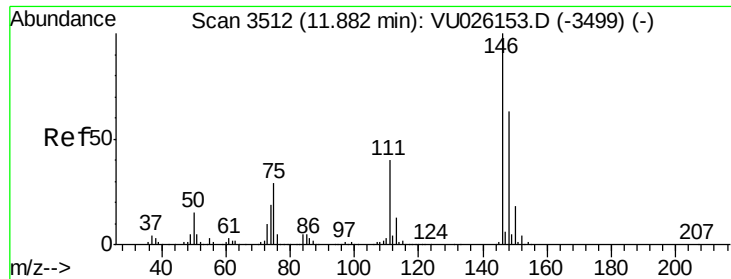
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 8/16/2018 4:20:28 PM



#63  
 1,4-Dichlorobenzene  
 Concen: 2.05 ug/L  
 RT: 11.51 min Scan# 3396  
 Delta R.T. -0.00 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.5  | 27.5  | 51.1  |
| 148     | 70.6  | 44.8  | 83.2  |





#65

1,2-Dichlorobenzene

Concen: 2.04 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

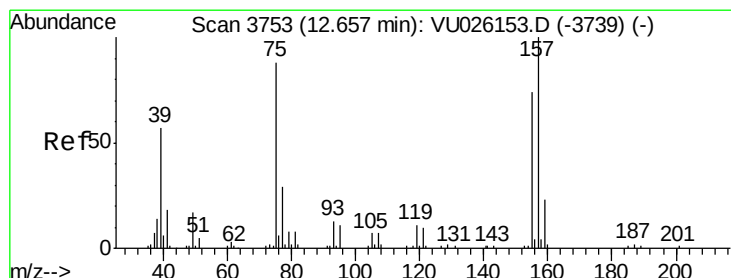
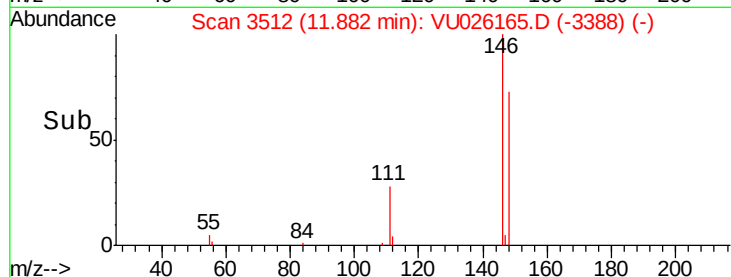
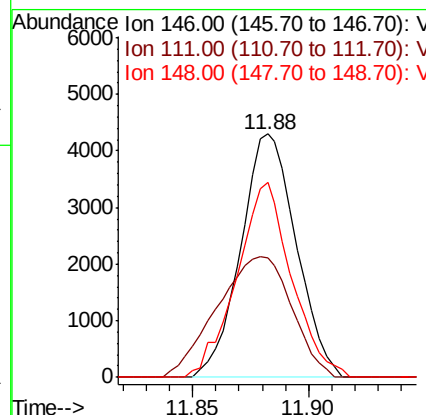
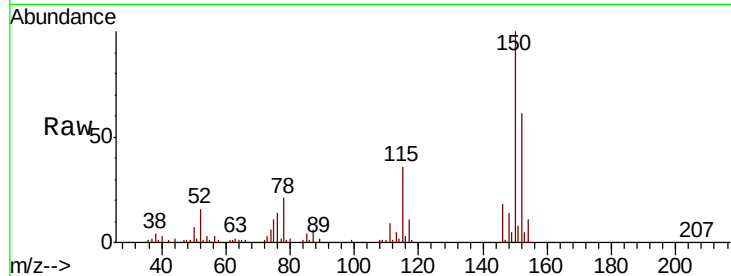
ClientSampleId :

MDL03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 7146  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 48.9  | 32.7  | 49.1  |
| 148       | 80.3  | 51.4  | 77.2# |

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#66

1,2-Dibromo-3-chloropropane

Concen: 1.81 ug/L

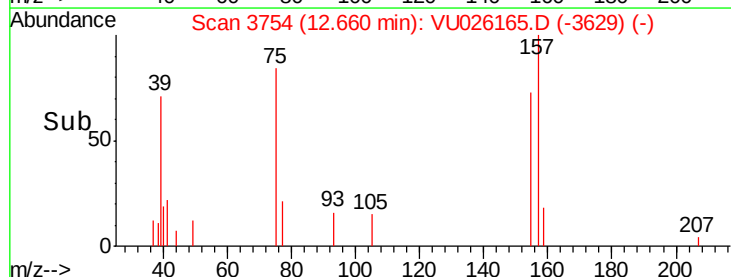
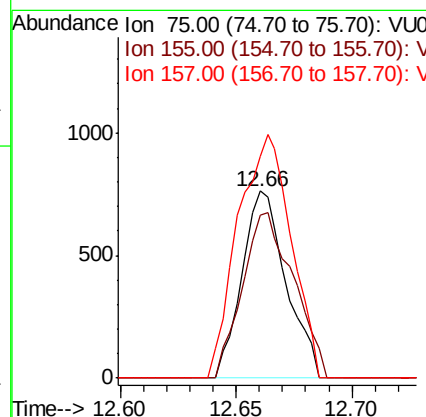
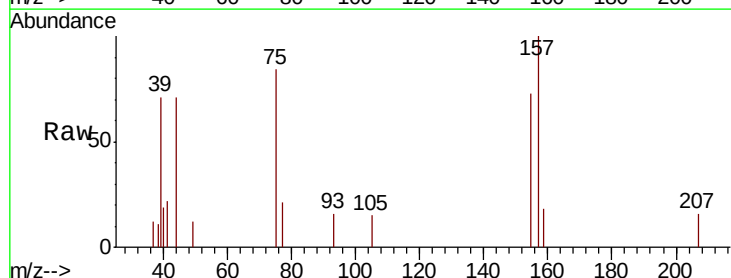
RT: 12.66 min Scan# 3754

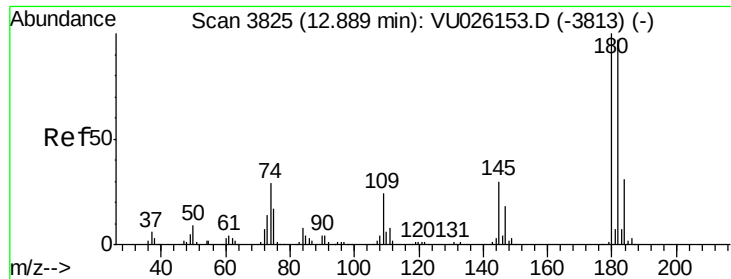
Delta R.T. 0.00 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 1006  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 87.3  | 68.2  | 102.2 |
| 157       | 118.9 | 90.5  | 135.7 |





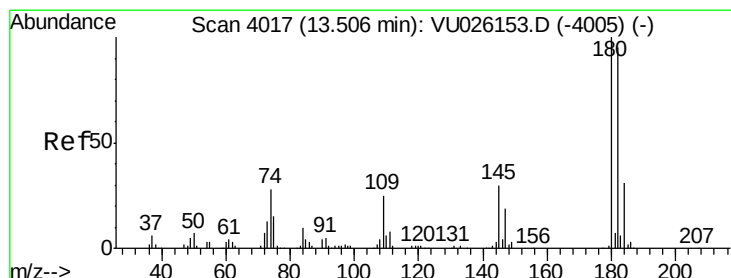
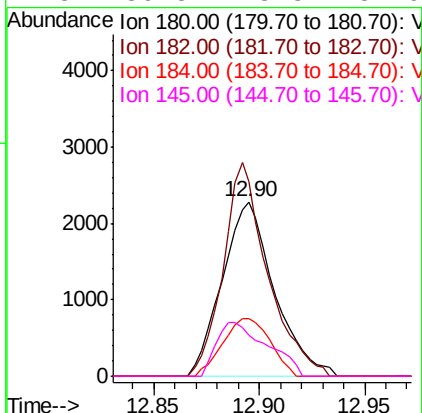
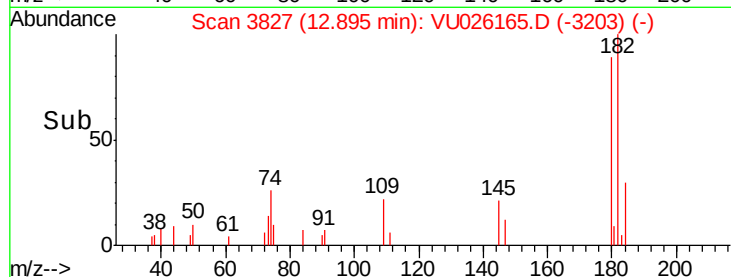
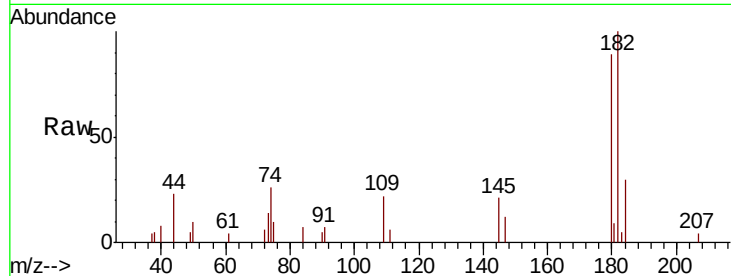
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.61 ug/L  
 RT: 12.90 min Scan# 3827  
 Delta R.T. 0.01 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 104.3 | 75.6  | 113.4 |
| 184     | 30.1  | 24.3  | 36.5  |
| 145     | 30.3  | 23.3  | 34.9  |

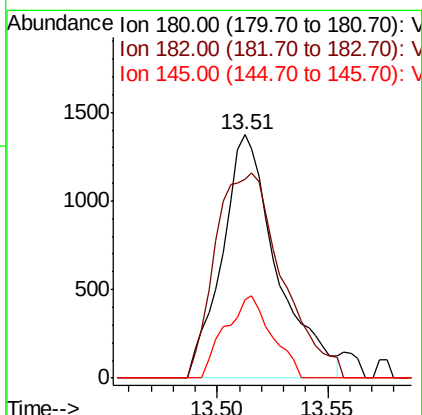
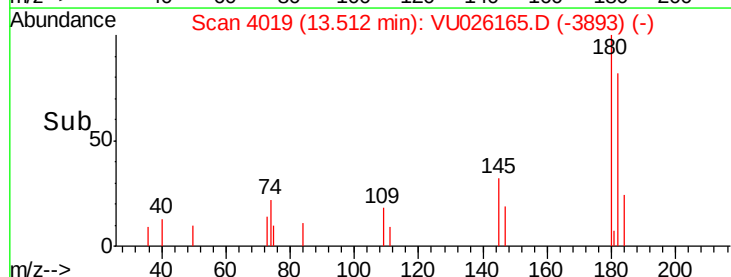
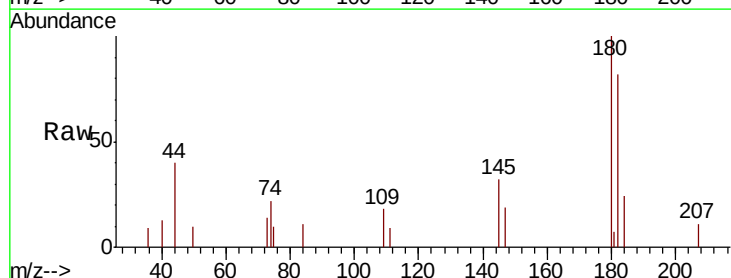
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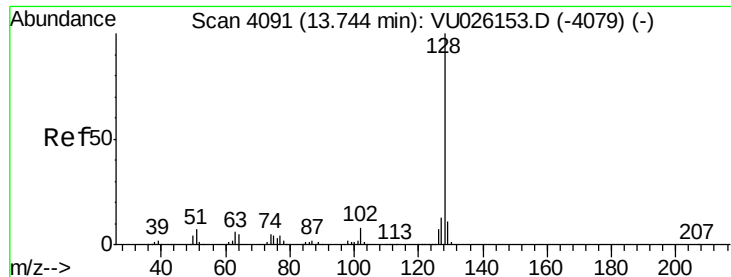
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#68  
 1,2,4-trichlorobenzene  
 Concen: 1.29 ug/L  
 RT: 13.51 min Scan# 4019  
 Delta R.T. 0.01 min  
 Lab File: VU026165.D  
 Acq: 15 Aug 2018 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 102.7 | 76.8  | 115.2 |
| 145     | 28.8  | 23.8  | 35.6  |





#69

Naphthalene

Concen: 1.35 ug/L m

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

Instrument :

MSVOA\_U

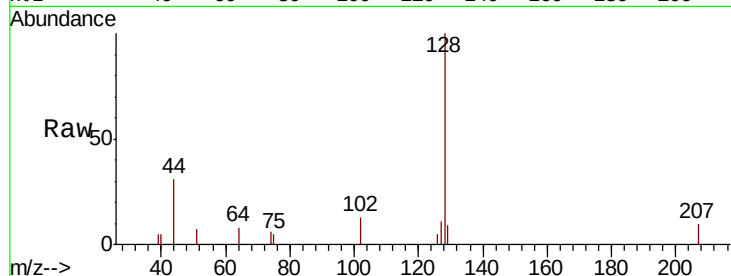
ClientSampled :

MDL03

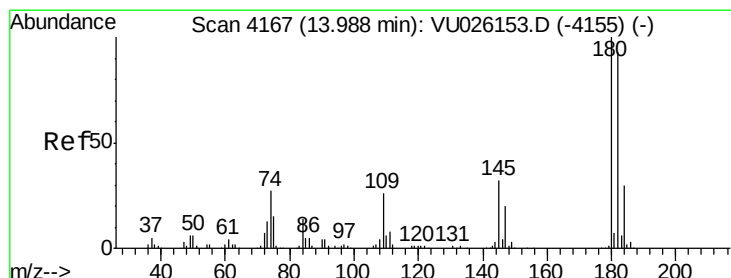
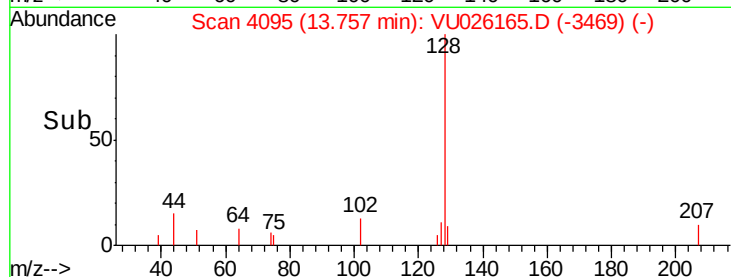
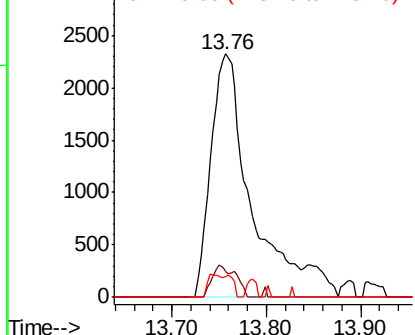
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 7050  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 4.9   | 10.3  | 15.5# |
| 129      | 3.3   | 8.6   | 13.0# |

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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



#70

1,2,3-Trichlorobenzene

Concen: 1.39 ug/L m

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU026165.D

Acq: 15 Aug 2018 23:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 2725  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 84.5  | 77.1  | 115.7 |
| 145      | 26.2  | 25.1  | 37.7  |

Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

