

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\  
 Data File : VU033502.D  
 Acq On : 30 Jul 2019 19:12  
 Operator : JC/SP  
 Sample : MDL02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Manual Integrations  
 APPROVED

MMDadoda  
 7/31/2019 10:33:59 AM

Quant Time: Jul 31 08:26:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 31 08:02:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 321706   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 313794   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 154768   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 111576   | 47.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.40%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 96764    | 48.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.44%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 153784   | 36.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.46%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 157607   | 101.73   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.73% |
| 24) Chloroform-d               | 4.62    | 84    | 188732   | 48.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.28%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 122934   | 49.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.02%  |
| 32) Benzene-d6                 | 5.32    | 84    | 389426   | 50.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.12% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 124234   | 50.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.90% |
| 41) Toluene-d8                 | 7.55    | 98    | 357844   | 49.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.18%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 57686    | 47.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.38%  |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 119146   | 102.91   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.91% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 181248   | 48.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 143115   | 50.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.00% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 7336     | 2.418 | ug/L   | 98     |
| 3) Chloromethane               | 1.32 | 50   | 7758     | 2.539 | ug/L   | 99     |
| 5) Vinyl chloride              | 1.40 | 62   | 8393     | 2.562 | ug/L # | 68     |
| 6) Bromomethane                | 1.62 | 94   | 6000     | 2.076 | ug/L   | 99     |
| 8) Chloroethane                | 1.69 | 64   | 5750     | 2.889 | ug/L   | 90     |
| 9) Trichlorofluoromethane      | 1.87 | 101  | 10786    | 2.517 | ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101  | 6616     | 3.045 | ug/L   | 85     |
| 12) 1,1-Dichloroethene         | 2.27 | 96   | 6648     | 3.191 | ug/L # | 1      |
| 13) Acetone                    | 2.31 | 43   | 8183     | 5.163 | ug/L   | 93     |
| 14) Carbon disulfide           | 2.46 | 76   | 17534    | 2.683 | ug/L   | 99     |
| 15) Methyl Acetate             | 2.60 | 43   | 6126     | 2.428 | ug/L   | 92     |
| 16) Methylene chloride         | 2.68 | 84   | 6343     | 2.666 | ug/L   | 99     |
| 17) trans-1,2-Dichloroethene   | 2.97 | 96   | 5508     | 2.524 | ug/L   | 96     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73   | 15394    | 2.313 | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.42 | 63   | 10256    | 2.503 | ug/L   | 95     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96   | 5989m    | 2.445 | ug/L   |        |
| 22) 2-Butanone                 | 4.25 | 43   | 8809m    | 4.655 | ug/L   |        |

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 Sample : MDL02  
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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Manual Integrations  
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MMDadoda  
 7/31/2019 10:33:59 AM

Quant Time: Jul 31 08:26:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 31 08:02:52 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 4.53  | 128  | 2958     | 2.314 | ug/L   | 92       |
| 25) Chloroform                  | 4.65  | 83   | 15196    | 3.525 | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 5.38  | 62   | 8101     | 2.440 | ug/L   | 99       |
| 29) Cyclohexane                 | 4.97  | 56   | 7830     | 2.288 | ug/L   | 97       |
| 30) 1,1,1-Trichloroethane       | 4.89  | 97   | 8958     | 2.481 | ug/L   | 99       |
| 31) Carbon tetrachloride        | 5.11  | 117  | 7384     | 2.348 | ug/L   | 95       |
| 33) Benzene                     | 5.37  | 78   | 24132    | 2.666 | ug/L   | 100      |
| 34) Trichloroethene             | 6.17  | 95   | 6101     | 2.555 | ug/L   | 94       |
| 35) Methylcyclohexane           | 6.40  | 83   | 8615     | 2.312 | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.42  | 63   | 5983     | 2.469 | ug/L # | 90       |
| 38) Bromodichloromethane        | 6.74  | 83   | 7706     | 2.460 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.25  | 75   | 9077     | 2.400 | ug/L   | 94       |
| 40) 4-Methyl-2-pentanone        | 7.45  | 43   | 15229    | 4.552 | ug/L   | 99       |
| 42) Toluene                     | 7.62  | 91   | 25537    | 2.624 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene   | 7.86  | 75   | 8691     | 2.543 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 8.05  | 97   | 5732     | 2.492 | ug/L   | 95       |
| 46) Tetrachloroethene           | 8.21  | 164  | 4725     | 2.424 | ug/L   | 94       |
| 48) 2-Hexanone                  | 8.35  | 43   | 14558    | 5.383 | ug/L   | 97       |
| 49) Dibromochloromethane        | 8.46  | 129  | 6250     | 2.388 | ug/L   | 90       |
| 50) 1,2-Dibromoethane           | 8.57  | 107  | 6558     | 2.574 | ug/L # | 87       |
| 51) Chlorobenzene               | 9.10  | 112  | 16297    | 2.557 | ug/L   | 96       |
| 52) Ethylbenzene                | 9.23  | 91   | 24951    | 2.380 | ug/L   | 97       |
| 53) m,p-Xylene                  | 9.36  | 106  | 8410     | 2.090 | ug/L   | 86       |
| 54) o-xylene                    | 9.76  | 106  | 8407     | 2.154 | ug/L   | 94       |
| 55) Styrene                     | 9.78  | 104  | 13959    | 2.106 | ug/L   | 90       |
| 56) Isopropylbenzene            | 10.15 | 105  | 21226    | 2.081 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.44 | 83   | 11212    | 2.702 | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane      | 10.48 | 75   | 7908     | 2.473 | ug/L   | 99       |
| 61) Bromoform                   | 9.94  | 173  | 4860     | 2.600 | ug/L # | 98       |
| 62) 1,3-Dichlorobenzene         | 11.40 | 146  | 12525    | 2.635 | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene         | 11.49 | 146  | 13426    | 2.719 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 11.86 | 146  | 12887    | 2.681 | ug/L   | 91       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 2121     | 2.389 | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 9802     | 2.556 | ug/L   | 94       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 6229     | 1.901 | ug/L   | 98       |
| 69) Naphthalene                 | 13.74 | 128  | 14408    | 1.533 | ug/L   | 95       |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 7652     | 2.221 | ug/L   | 94       |

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

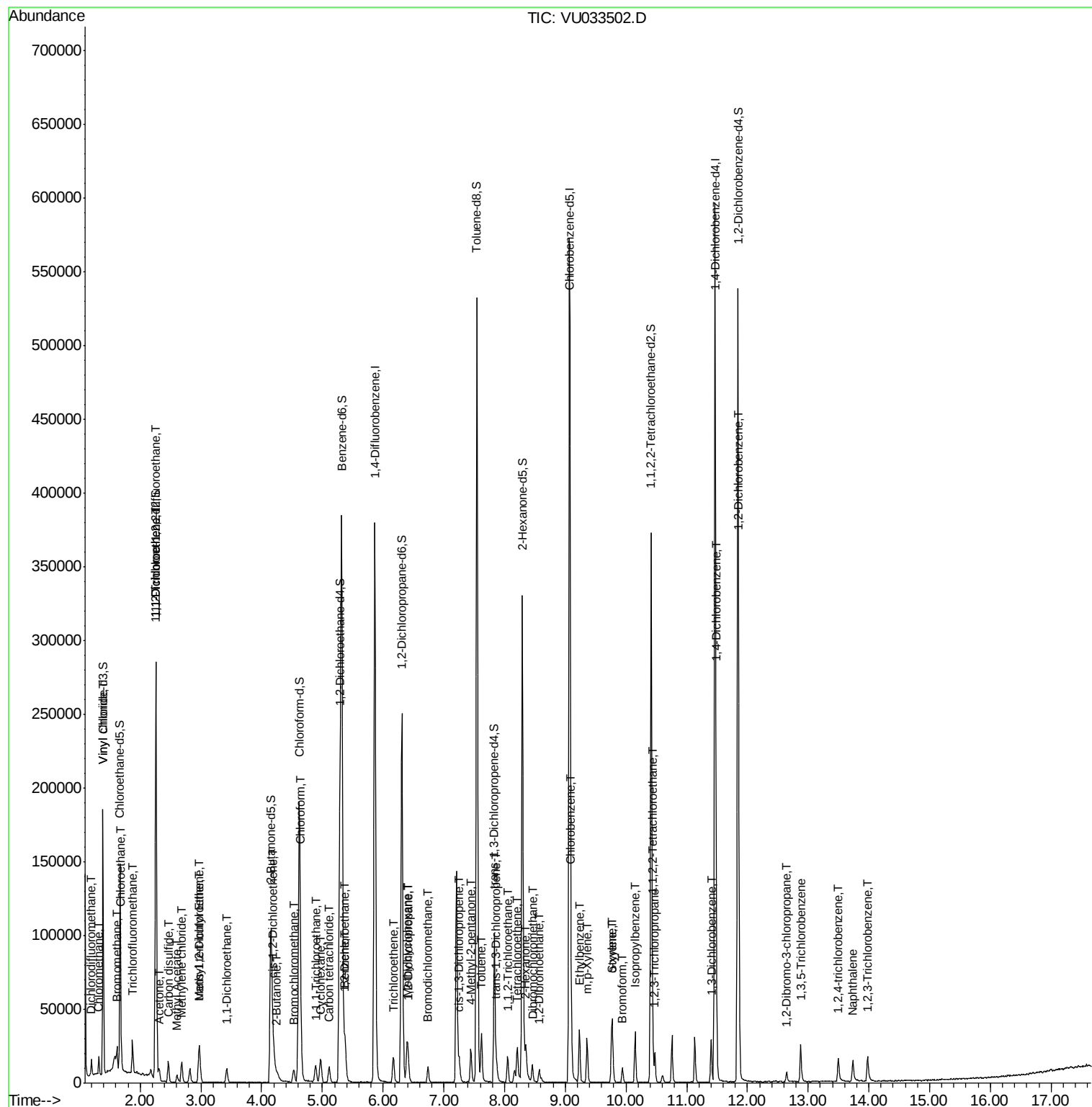
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\  
Data File : VU033502.D  
Acq On : 30 Jul 2019 19:12  
Operator : JC/SP  
Sample : MDL02  
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ALS Vial : 13 Sample Multiplier: 1

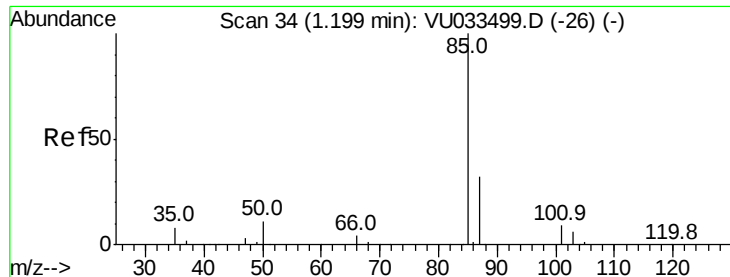
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

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Quant Title : VOC Analysis  
QLast Update : Wed Jul 31 08:02:52 2019  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.418 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

Tot Ion: 85 Resp: 7336

Ion Ratio Lower Upper

85 100

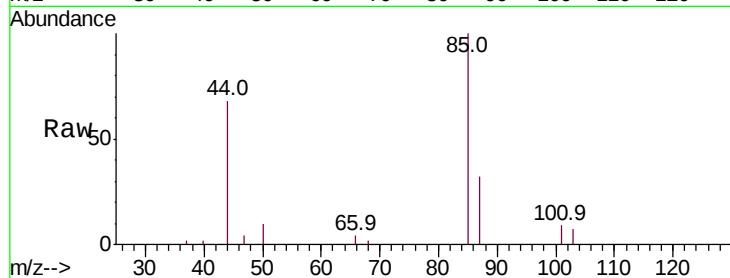
87 33.1 25.4 38.2

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VU033499.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033499.D (-26) (-)

8000

6000

4000

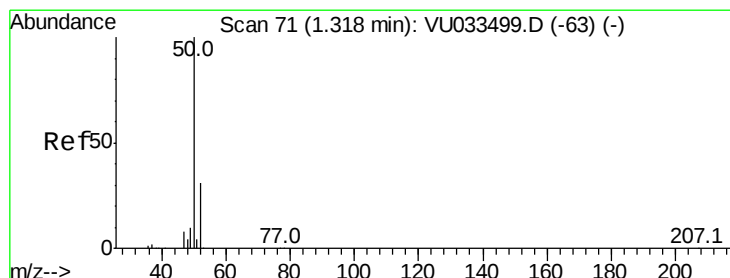
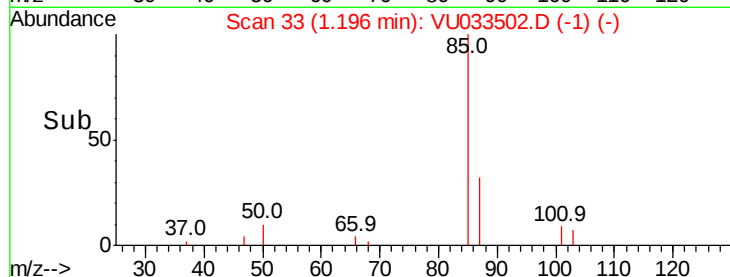
2000

0

1.20

1.25

Time-->



#3

Chloromethane

Concen: 2.539 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033502.D

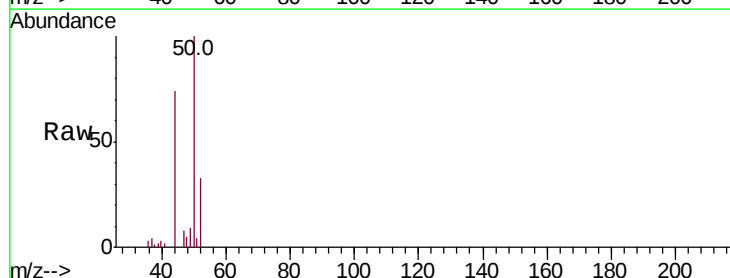
Acq: 30 Jul 2019 19:12

Tgt Ion: 50 Resp: 7758

Ion Ratio Lower Upper

50 100

52 32.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033499.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033499.D (-63) (-)

8000

6000

4000

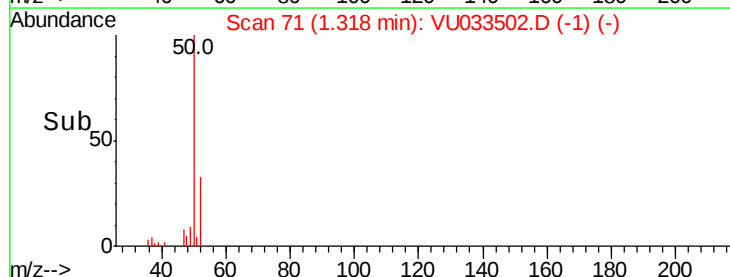
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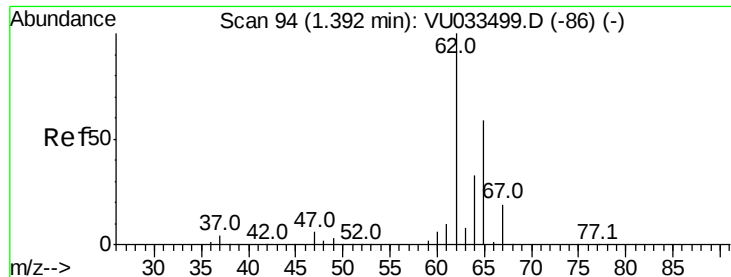
0

1.32

1.36

Time-->





#5

Vinyl chloride

Concen: 2.562 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampled :

MDL02

Tot Ion: 62 Resp: 8393

Ion Ratio Lower Upper

62 100

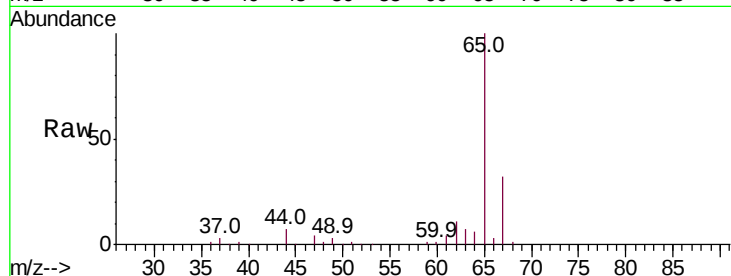
64 51.5 23.4 43.4#

Manual Integrations

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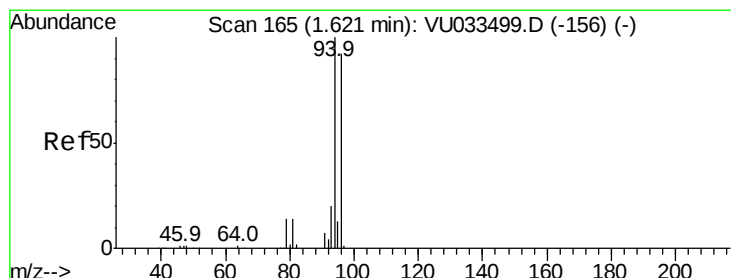
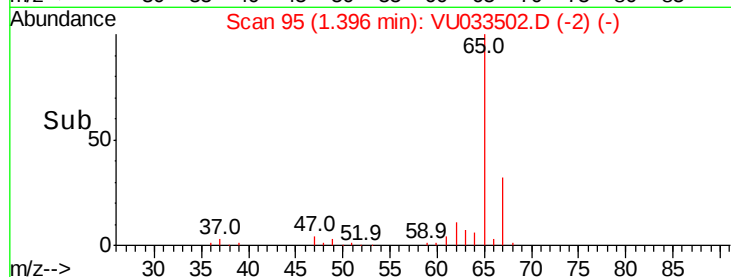
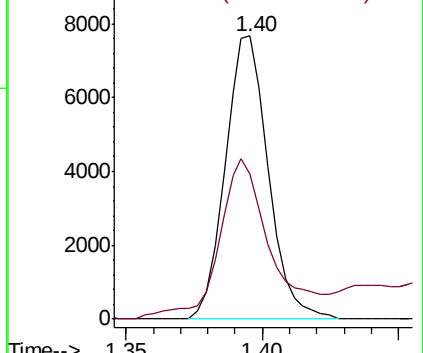
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Abundance Ion 62.00 (61.70 to 62.70): VU033499.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033502.D (-2) (-)



#6

Bromomethane

Concen: 2.076 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033502.D

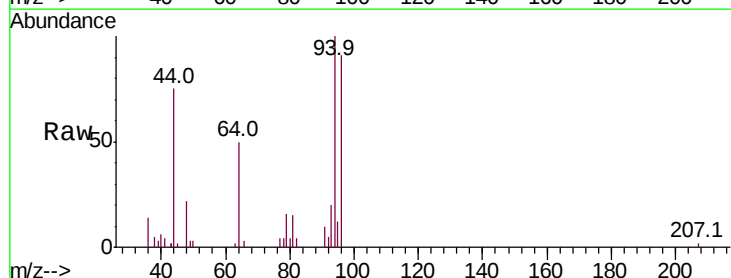
Acq: 30 Jul 2019 19:12

Tgt Ion: 94 Resp: 6000

Ion Ratio Lower Upper

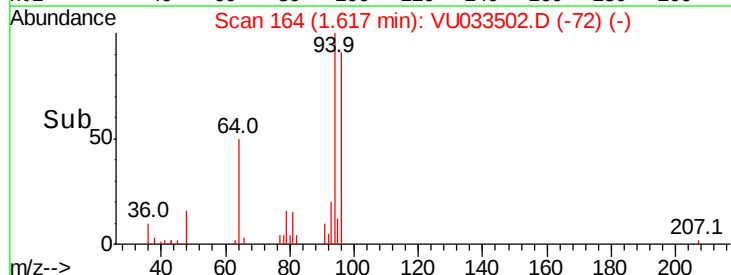
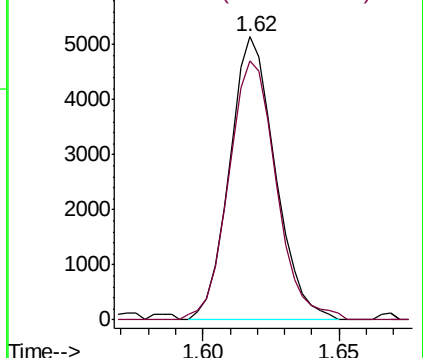
94 100

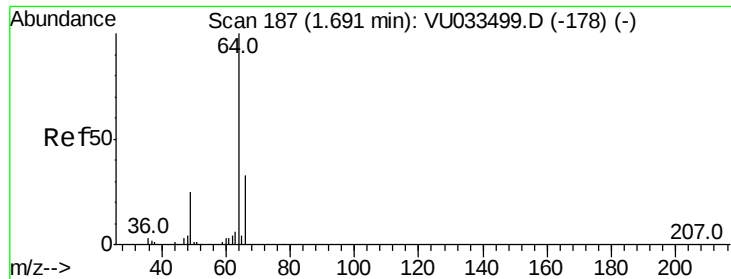
96 91.4 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033499.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033502.D (-72) (-)





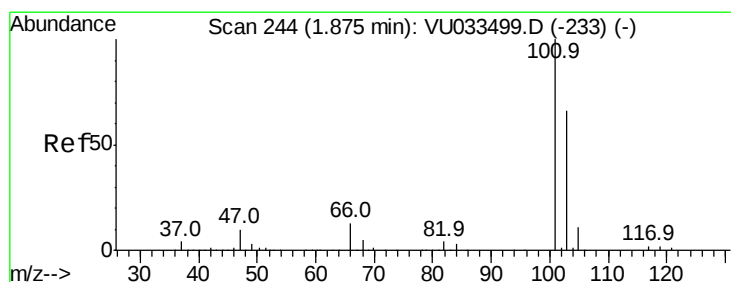
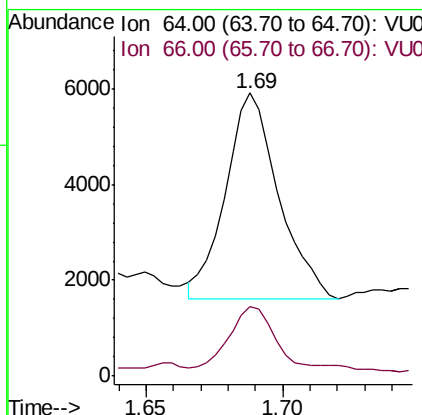
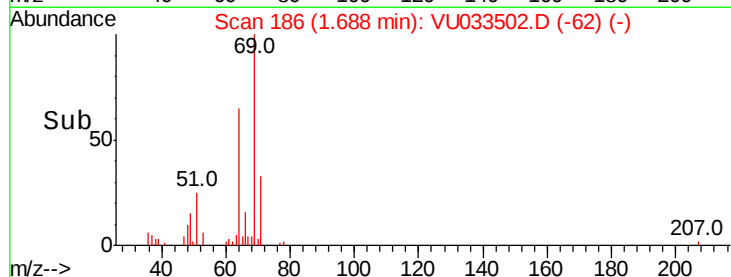
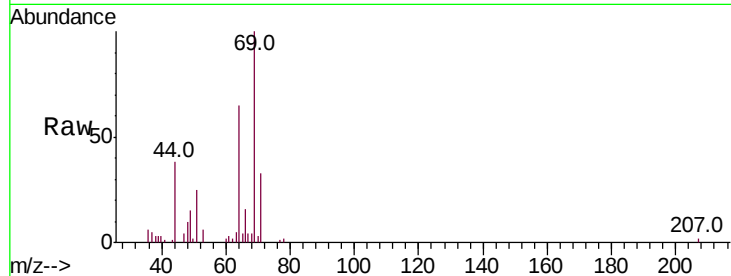
#8  
Chloroethane  
Concen: 2.889 ug/L  
RT: 1.69 min Scan# 186  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Instrument :  
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ClientSampleId :  
MDL02

Tot Ion: 64 Resp: 5750  
Ion Ratio Lower Upper  
64 100  
66 24.6 21.1 39.3

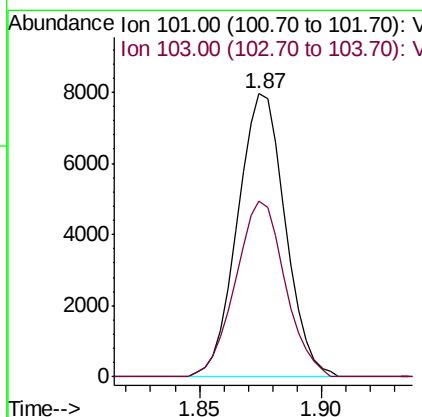
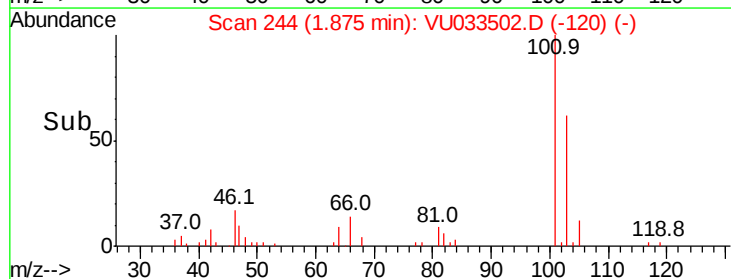
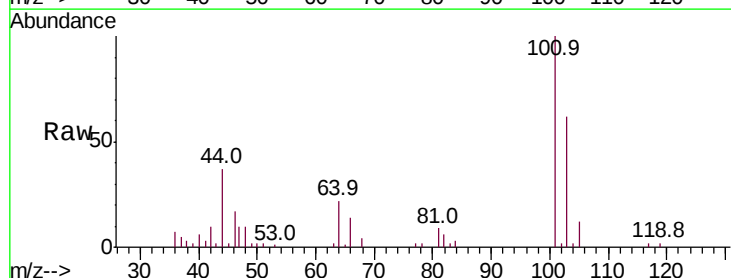
Manual Integrations  
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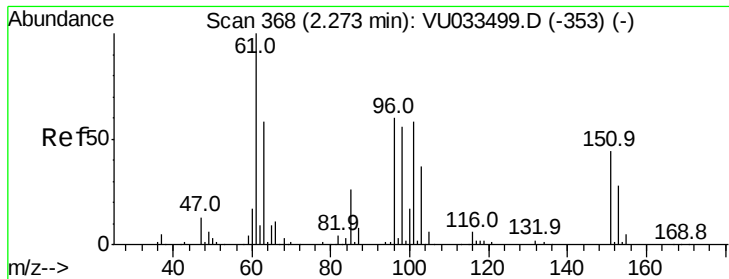
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7/31/2019 10:33:59 AM



#9  
Trichlorofluoromethane  
Concen: 2.517 ug/L  
RT: 1.87 min Scan# 244  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Tgt Ion:101 Resp: 10786  
Ion Ratio Lower Upper  
101 100  
103 64.5 51.6 77.4





#10

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

Concen: 3.045 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

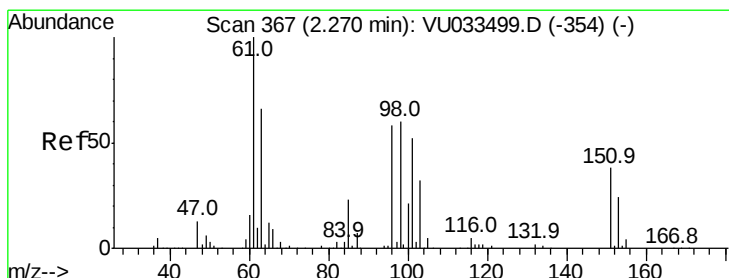
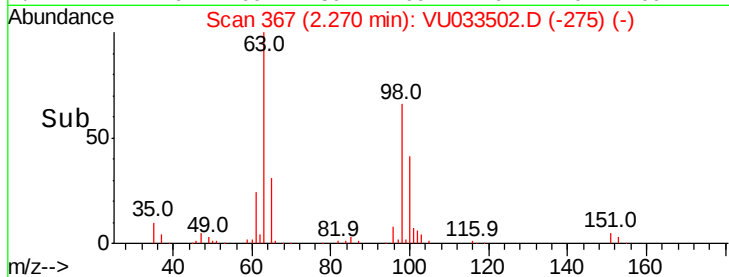
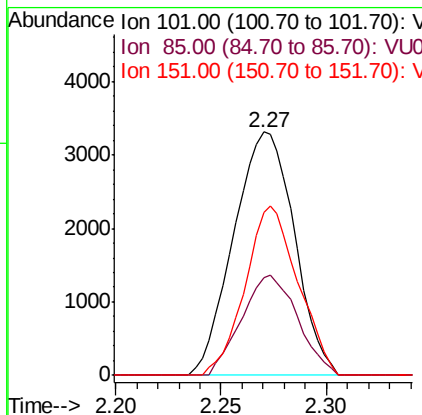
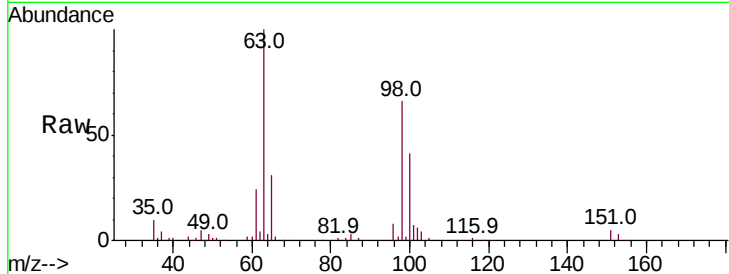
ClientSampleId :

MDL02

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 101   | Resp: | 6616 |
| Ion Ratio | Lower | Upper |      |
| 101       | 100   |       |      |
| 85        | 38.0  | 35.8  | 53.8 |
| 151       | 60.7  | 60.1  | 90.1 |

Manual Integrations  
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7/31/2019 10:33:59 AM



#12

1,1-Dichloroethene

Concen: 3.191 ug/L

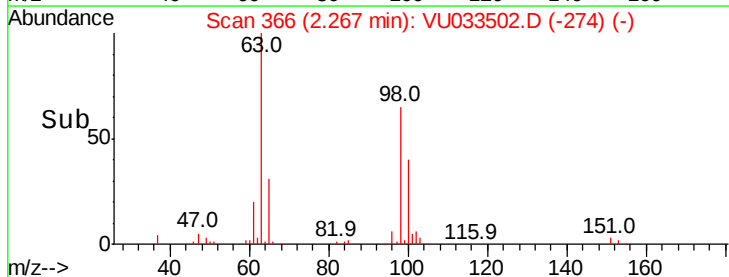
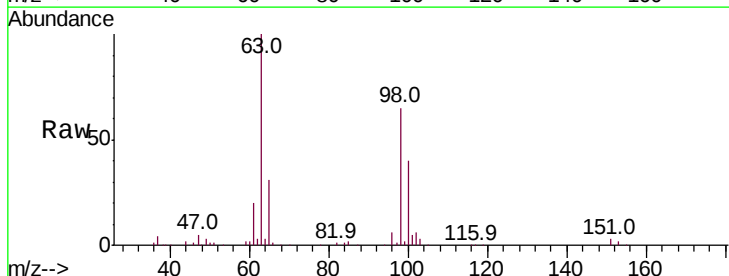
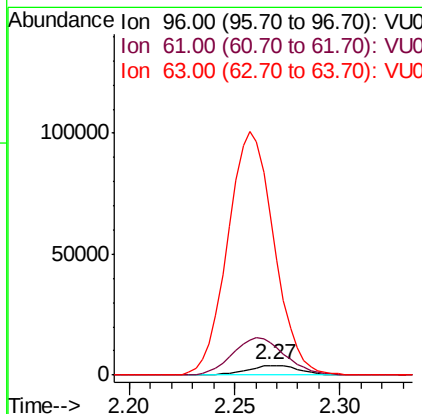
RT: 2.27 min Scan# 366

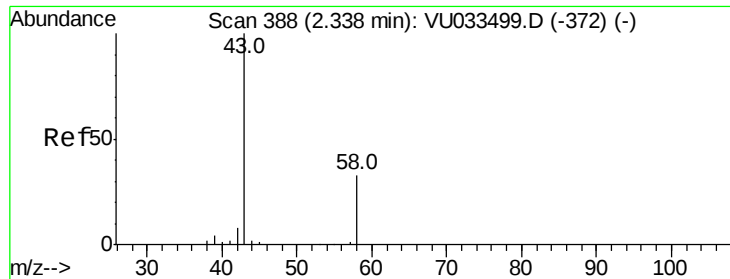
Delta R.T. -0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 6648   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 342.4  | 119.3 | 221.5# |
| 63        | 1700.3 | 86.6  | 160.8# |





#13

Acetone

Concen: 5.163 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 8183

Ion Ratio Lower Upper

43 100

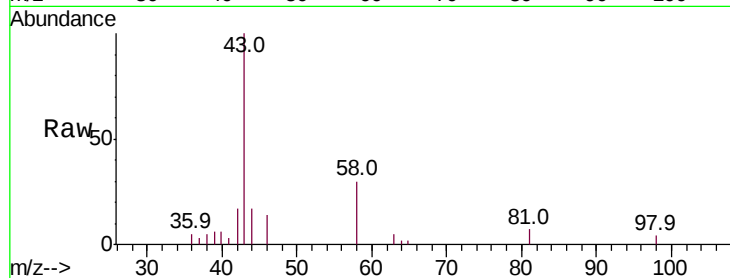
58 29.2 0.0 66.2

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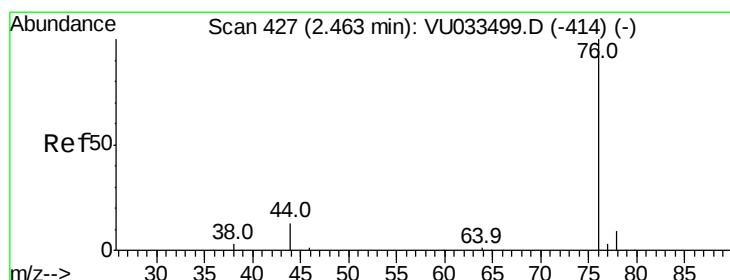
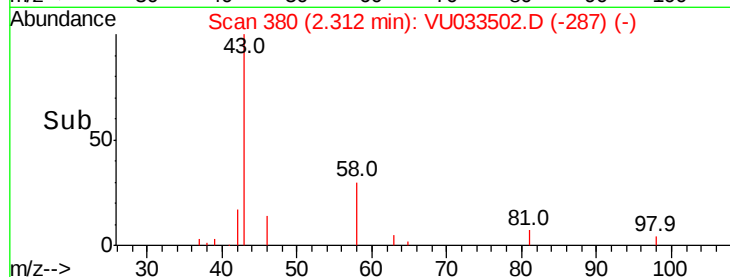
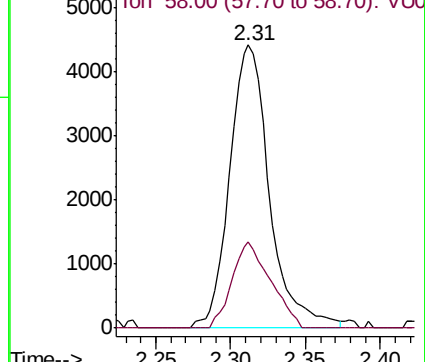
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Abundance Ion 43.00 (42.70 to 43.70): VU033502.D (-380) (-)



#14

Carbon disulfide

Concen: 2.683 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033502.D

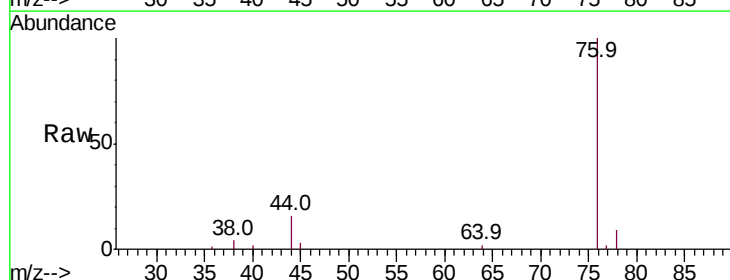
Acq: 30 Jul 2019 19:12

Tgt Ion: 76 Resp: 17534

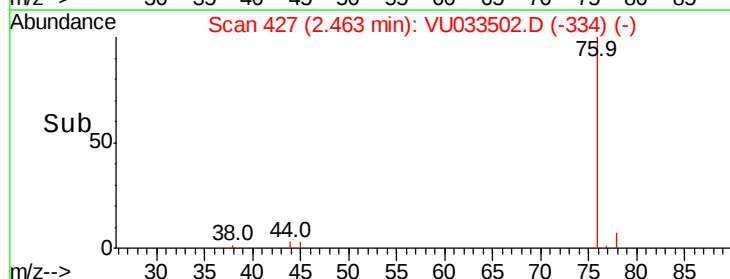
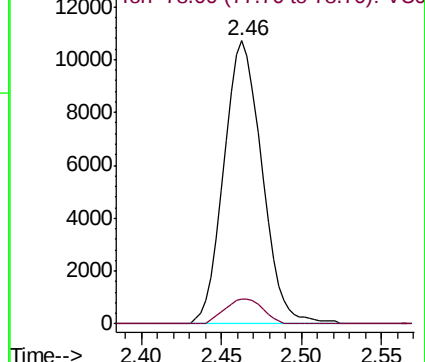
Ion Ratio Lower Upper

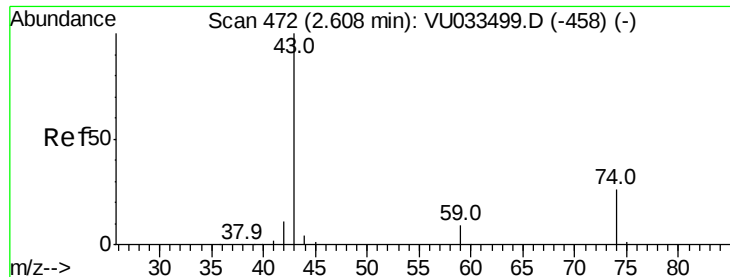
76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033502.D (-427) (-)





#15

Methyl Acetate

Concen: 2.428 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Tot Ion: 43 Resp: 6126

Ion Ratio Lower Upper

43 100

74 28.9 20.1 30.1

Instrument :

MSVOA\_U

ClientSampled :

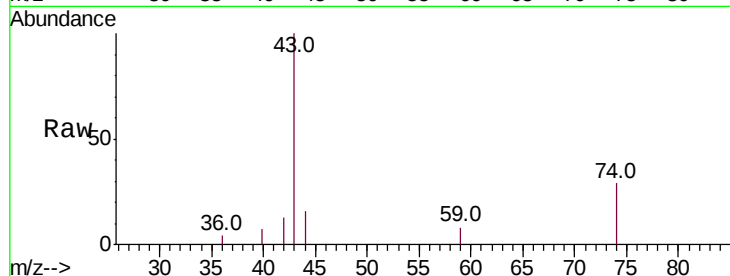
MDL02

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Abundance Ion 43.00 (42.70 to 43.70): VU033502.D (-477) (-)

Ion 74.00 (73.70 to 74.70): VU033502.D (-477) (-)

2.60

3000

2000

1000

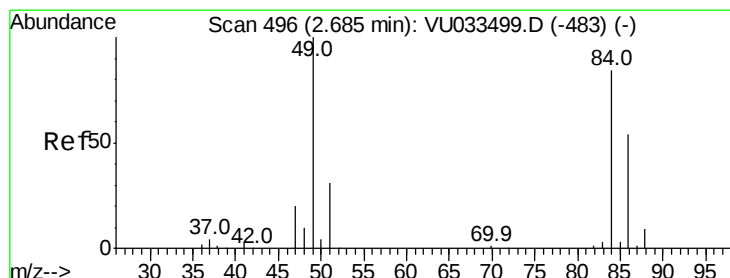
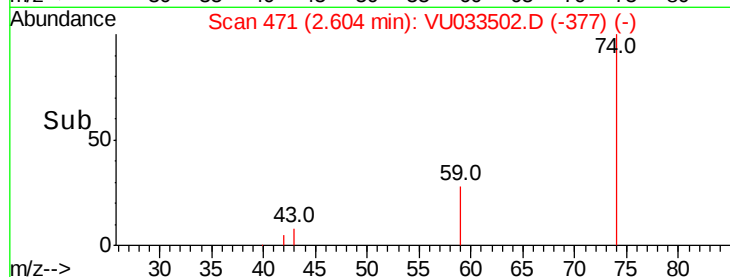
0

Time-->

2.55

2.60

2.65



#16

Methylene chloride

Concen: 2.666 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

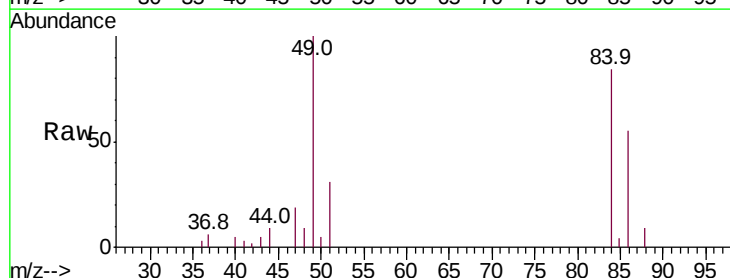
Tgt Ion: 84 Resp: 6343

Ion Ratio Lower Upper

84 100

86 65.4 45.7 84.9

49 119.4 85.0 158.0



Abundance Ion 84.00 (83.70 to 84.70): VU033502.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU033502.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033502.D (-403) (-)

5000

4000

3000

2000

1000

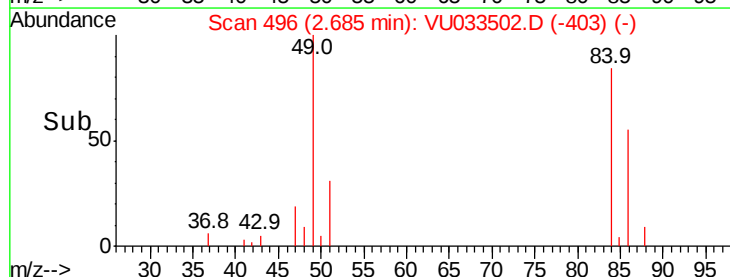
0

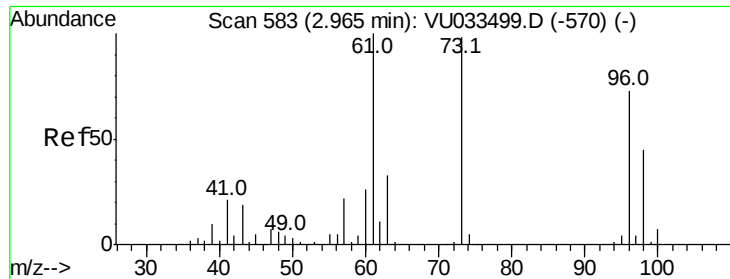
Time-->

2.65

2.70

2.75





#17

trans-1,2-Dichloroethene

Concen: 2.524 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

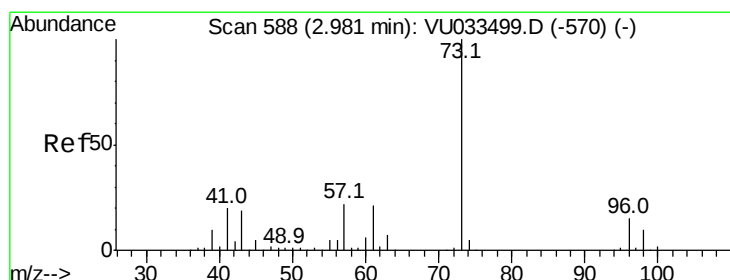
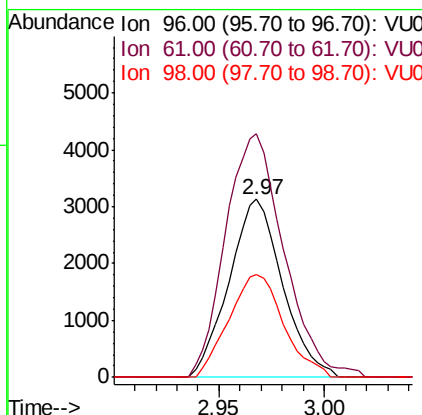
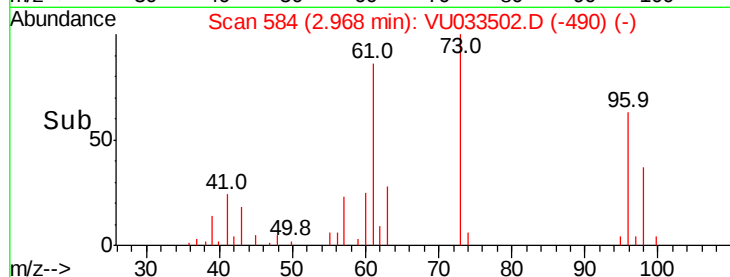
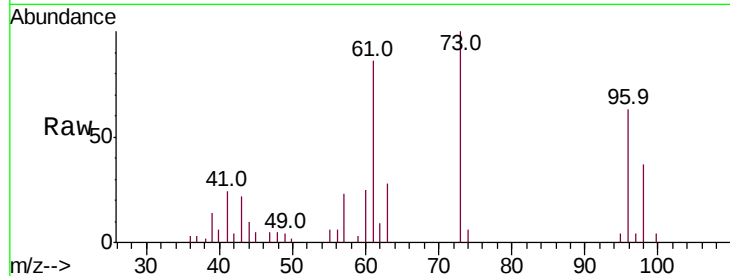
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

Tot Ion: 96 Resp: 5508

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 136.7 | 98.3  | 182.5 |
| 98  | 58.0  | 44.3  | 82.3  |

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#18

Methyl tert-butyl Ether

Concen: 2.313 ug/L

RT: 2.98 min Scan# 589

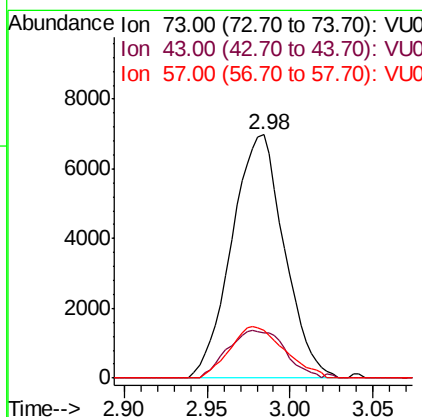
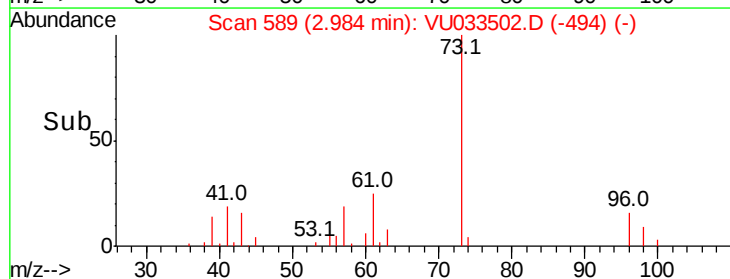
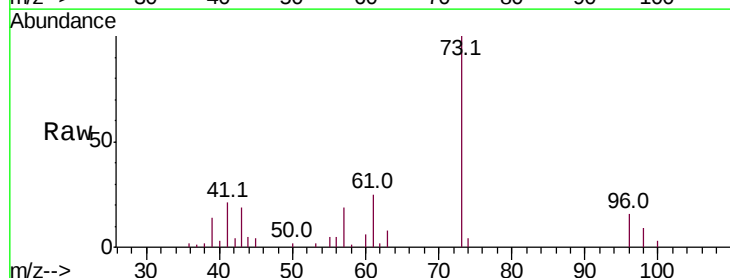
Delta R.T. 0.01 min

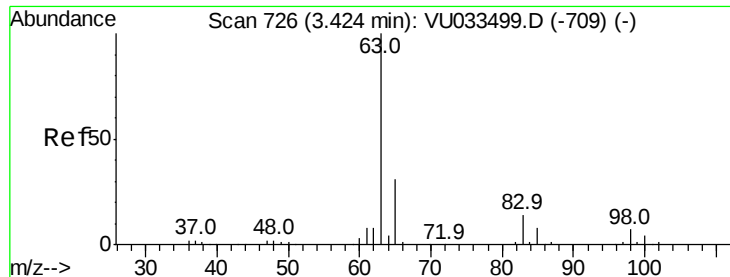
Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Tgt Ion: 73 Resp: 15394

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 21.4  | 15.4  | 23.2  |
| 57  | 21.9  | 17.4  | 26.2  |





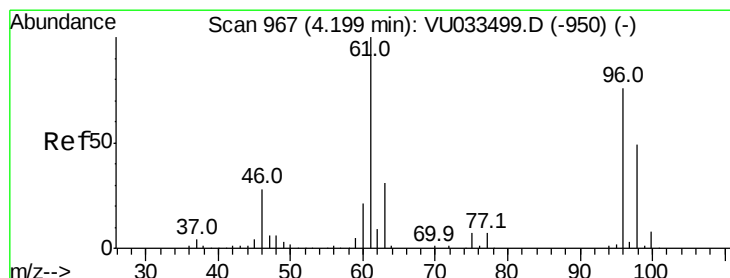
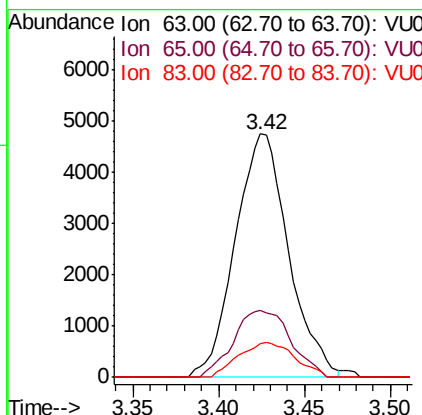
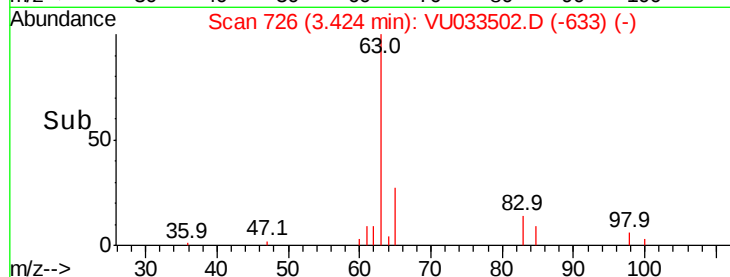
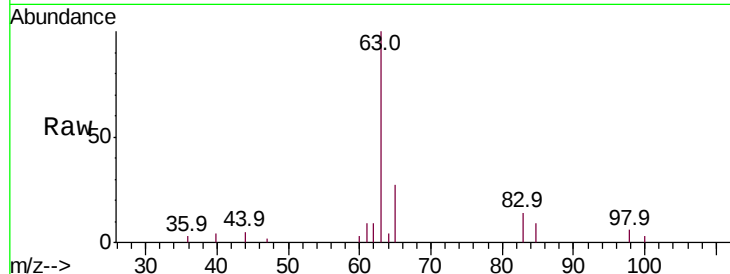
#19  
 1,1-Dichloroethane  
 Concen: 2.503 ug/L  
 RT: 3.42 min Scan# 726  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 10256 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 65        | 27.5  | 22.0  | 40.8  |
| 83        | 14.0  | 9.5   | 17.7  |

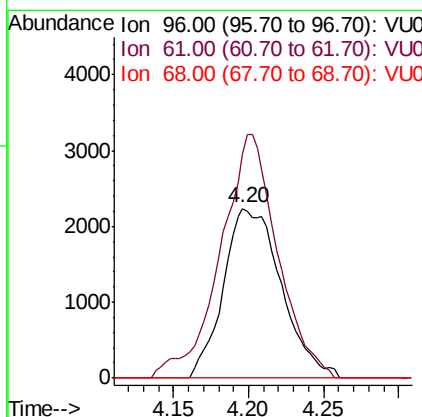
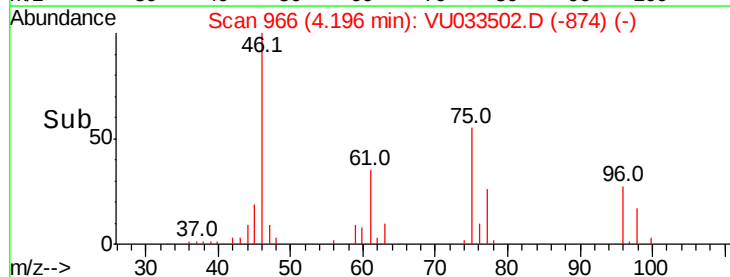
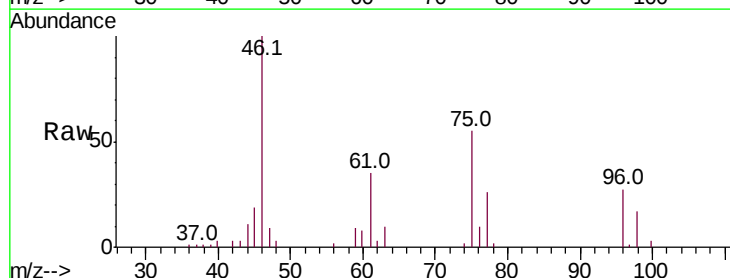
Manual Integrations  
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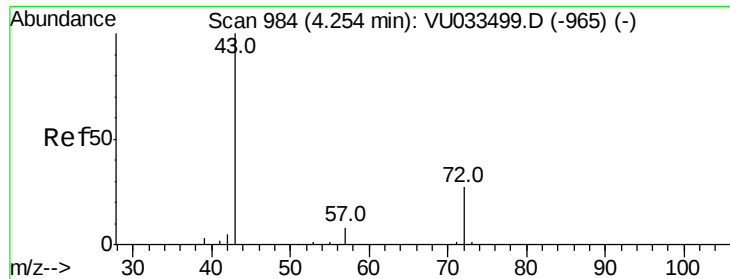
MMDadoda  
 7/31/2019 10:33:59 AM



#20  
 cis-1,2-Dichloroethene  
 Concen: 2.445 ug/L m  
 RT: 4.20 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 5989  |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 132.1 | 91.3  | 169.6 |
| 68        | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 4.655 ug/L m

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Tot Ion: 43 Resp: 8809

Ion Ratio Lower Upper

43 100

72 11.3 14.2 42.6#

Instrument :

MSVOA\_U

ClientSampled :

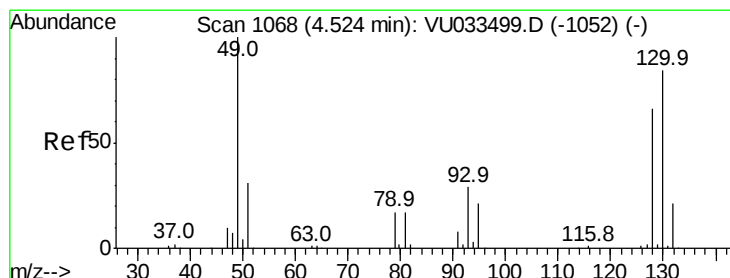
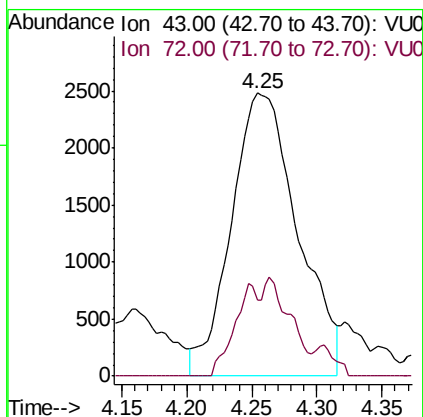
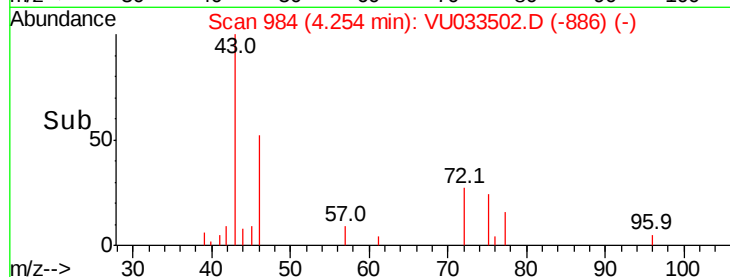
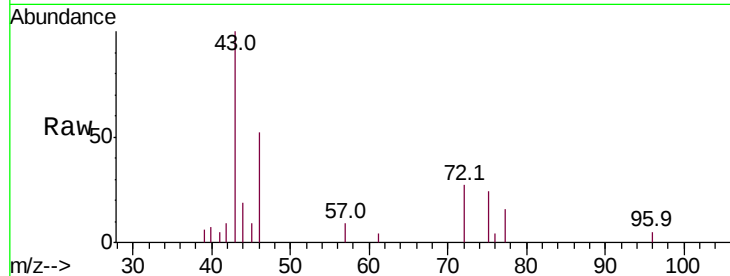
MDL02

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#23

Bromochloromethane

Concen: 2.314 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Tgt Ion:128 Resp: 2958

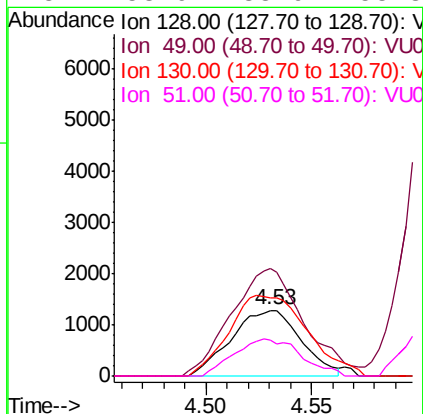
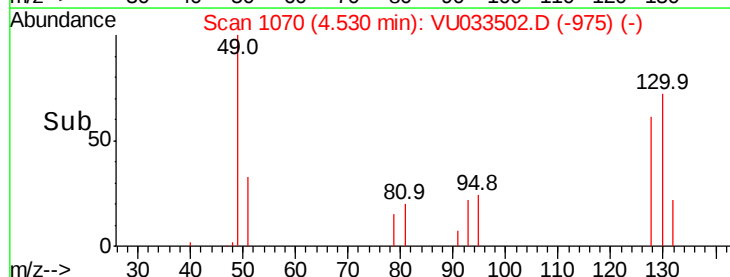
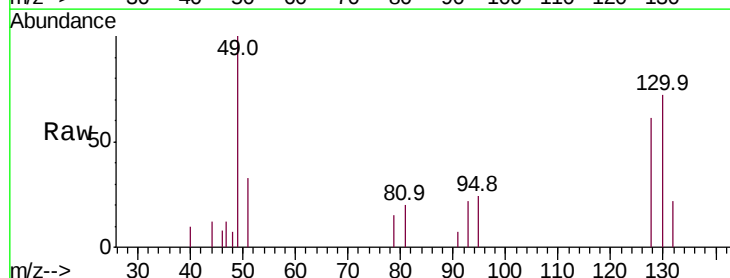
Ion Ratio Lower Upper

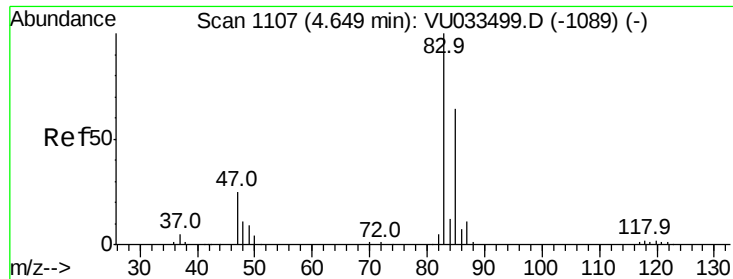
128 100

49 164.3 108.4 201.2

130 118.8 89.7 166.5

51 53.9 38.9 58.3





#25

Chloroform

Concen: 3.525 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

Tot Ion: 83 Resp: 15196

Ion Ratio Lower Upper

83 100

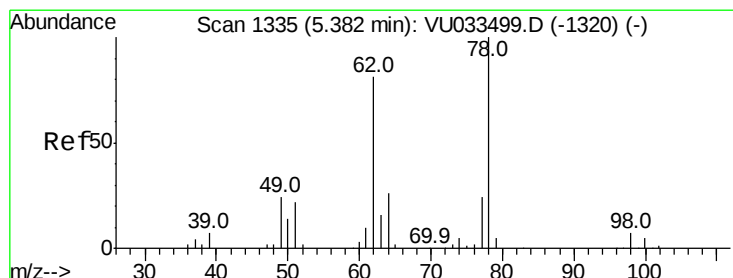
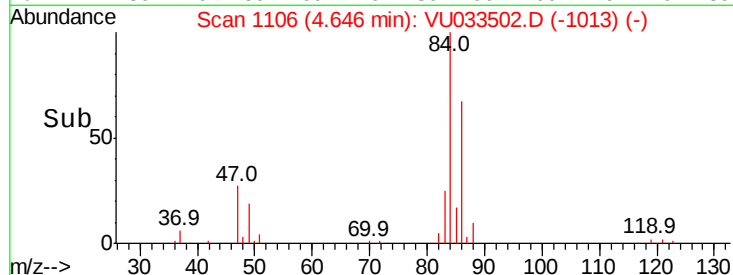
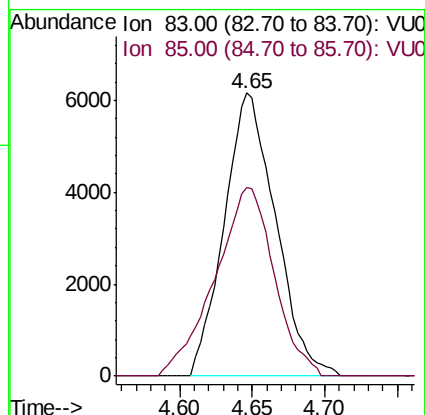
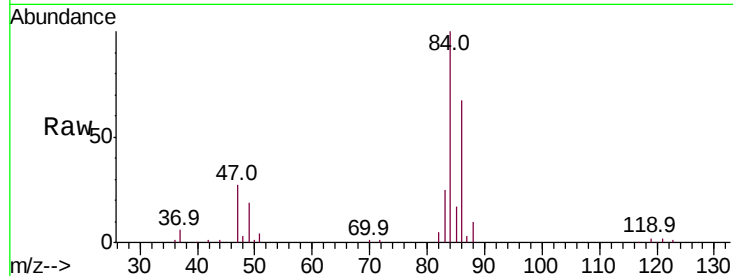
85 66.7 45.6 84.8

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#27

1,2-Dichloroethane

Concen: 2.440 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU033502.D

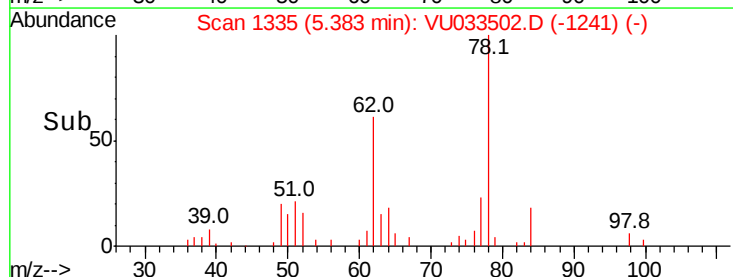
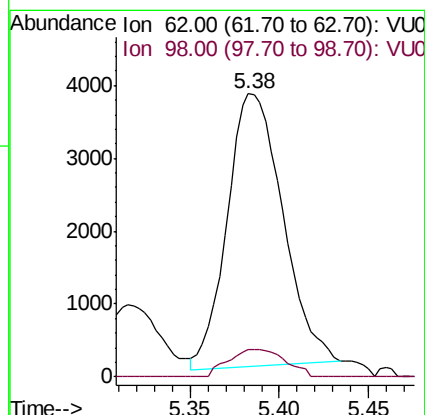
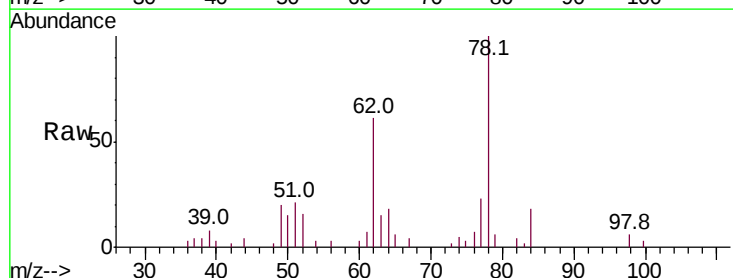
Acq: 30 Jul 2019 19:12

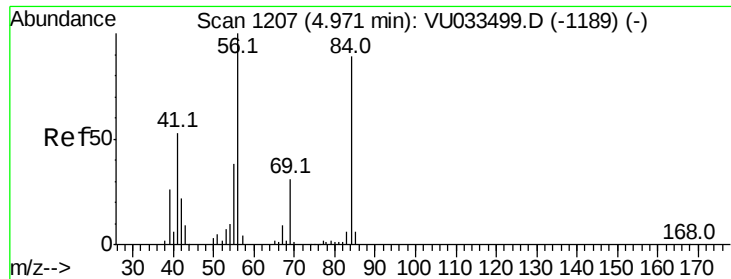
Tgt Ion: 62 Resp: 8101

Ion Ratio Lower Upper

62 100

98 9.5 7.2 10.8





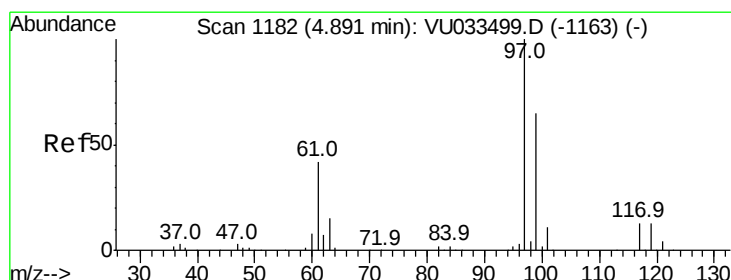
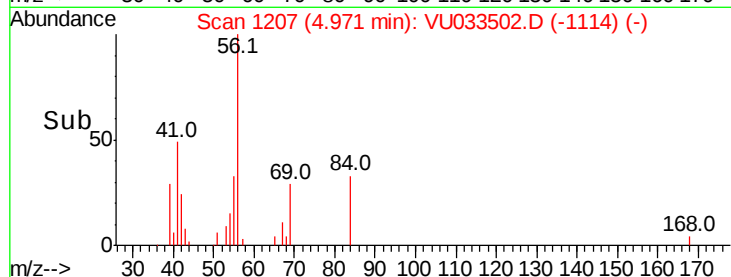
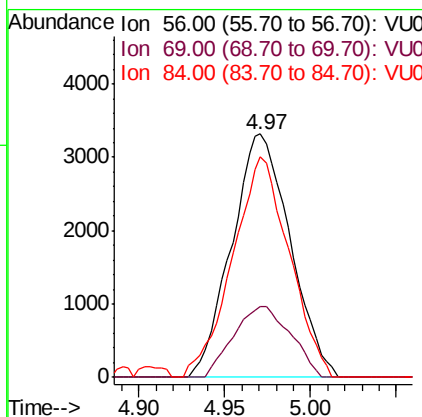
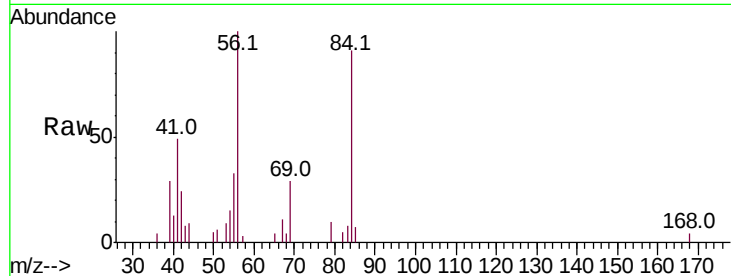
#29  
Cyclohexane  
Concen: 2.288 ug/L  
RT: 4.97 min Scan# 1207  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 28.3  | 25.0  | 37.6  |
| 84      | 87.7  | 71.6  | 107.4 |

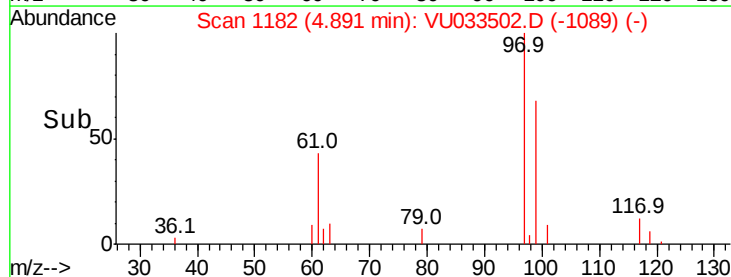
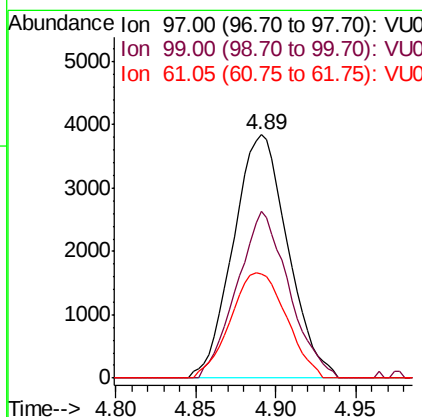
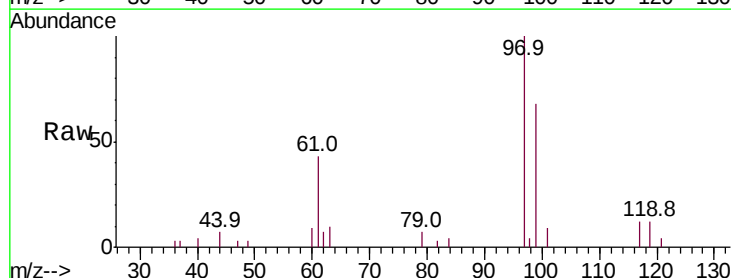
Manual Integrations  
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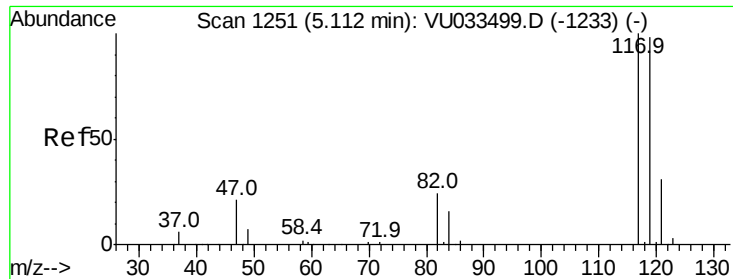
MMDadoda  
7/31/2019 10:33:59 AM



#30  
1,1,1-Trichloroethane  
Concen: 2.481 ug/L  
RT: 4.89 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.4  | 51.1  | 76.7  |
| 61      | 44.4  | 35.5  | 53.3  |





#31

Carbon tetrachloride

Concen: 2.348 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

Tot Ion:117 Resp: 7384

Ion Ratio Lower Upper

117 100

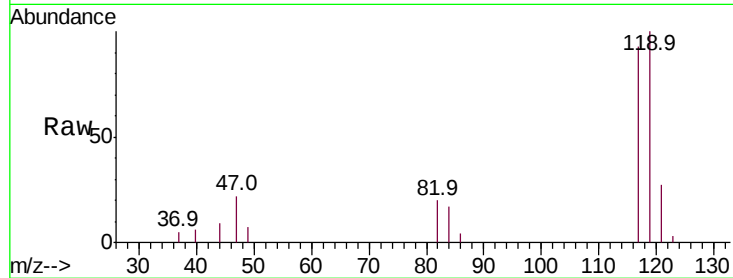
119 100.7 77.0 115.4

Manual Integrations

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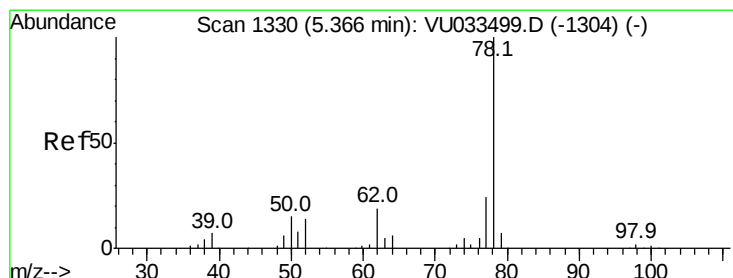
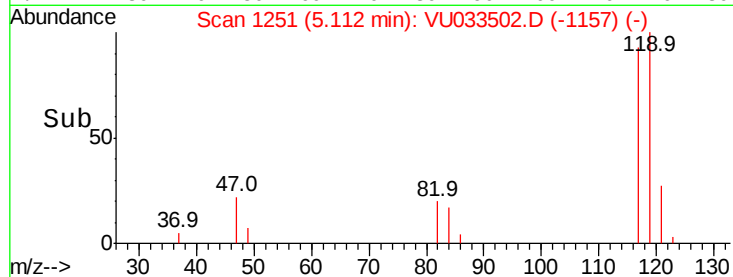
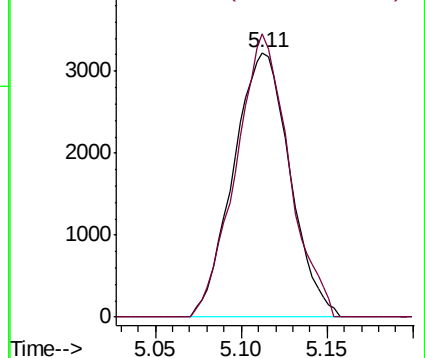
MMDadoda

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.666 ug/L

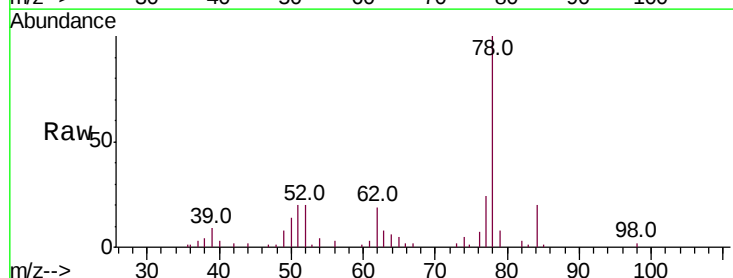
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

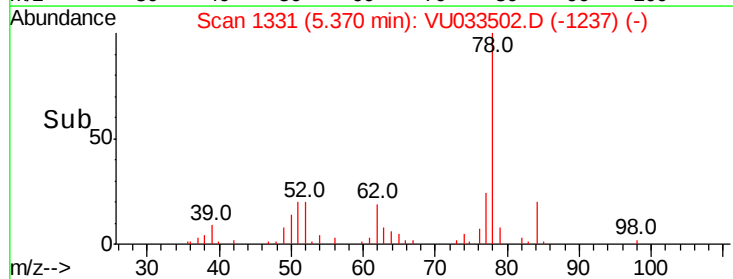
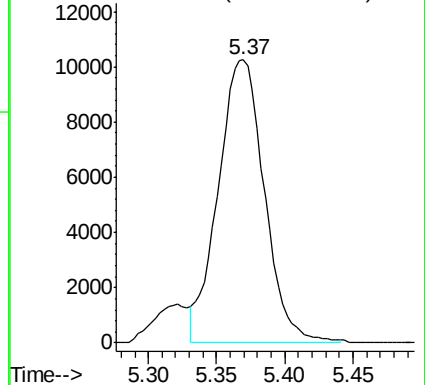
Lab File: VU033502.D

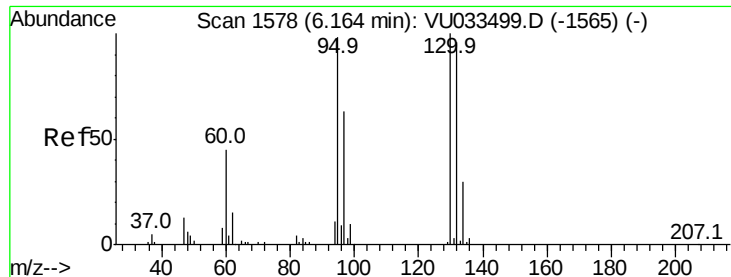
Acq: 30 Jul 2019 19:12

Tgt Ion: 78 Resp: 24132



Abundance Ion 78.00 (77.70 to 78.70): VU0





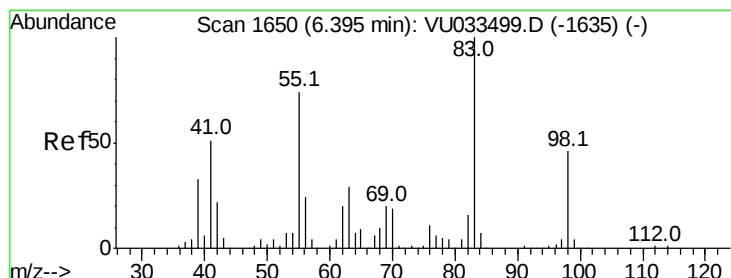
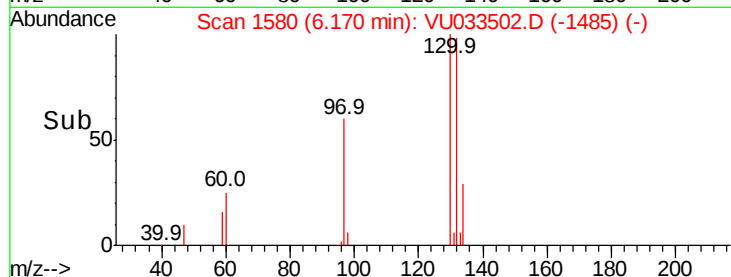
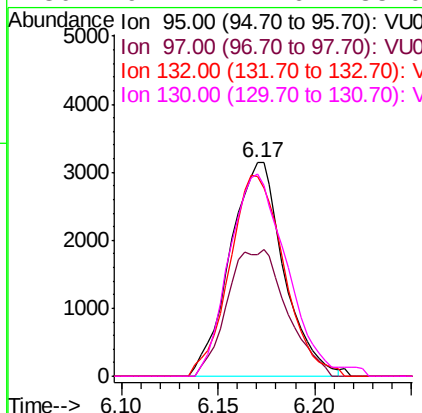
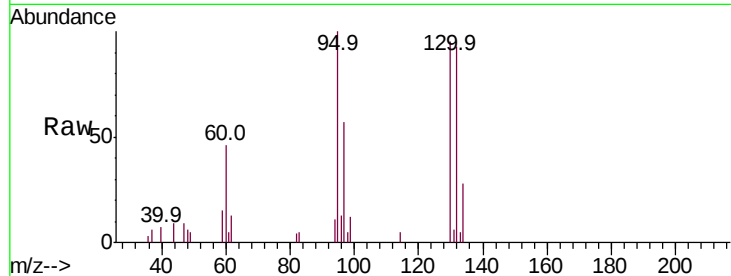
#34  
 Trichloroethene  
 Concen: 2.555 ug/L  
 RT: 6.17 min Scan# 1580  
 Delta R.T. 0.01 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 57.0  | 44.7  | 83.1  |
| 132     | 93.3  | 66.8  | 124.0 |
| 130     | 94.7  | 71.6  | 133.0 |

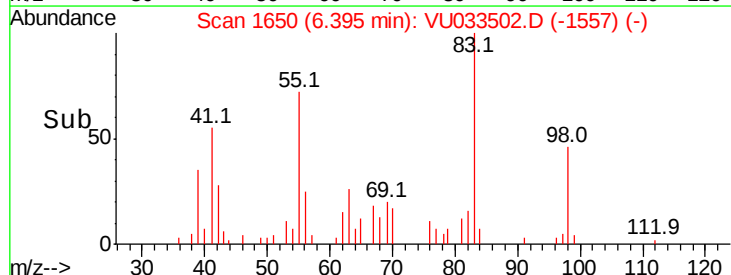
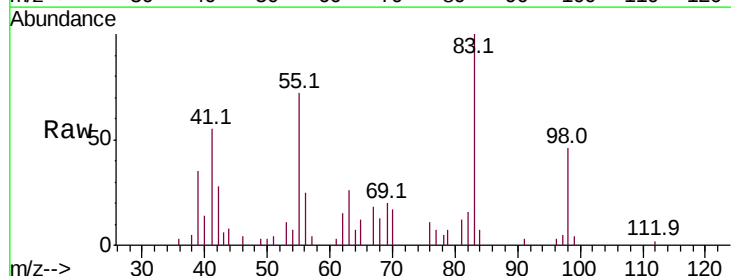
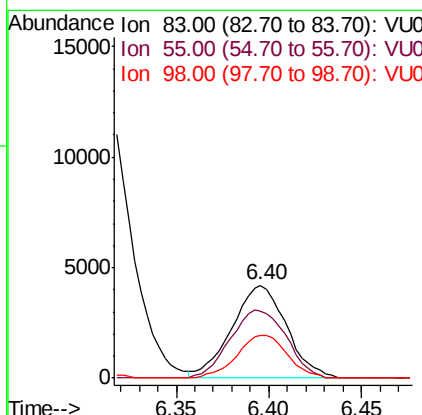
Manual Integrations  
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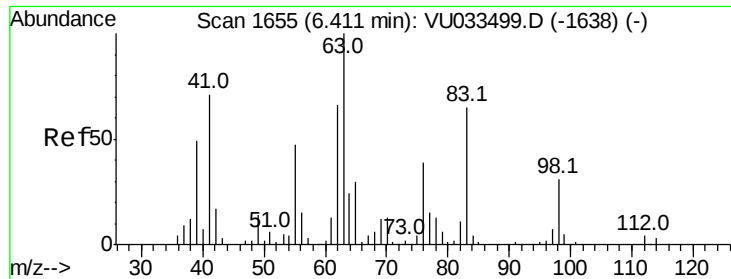
MMDadoda  
 7/31/2019 10:33:59 AM



#35  
 Methylcyclohexane  
 Concen: 2.312 ug/L  
 RT: 6.40 min Scan# 1650  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 74.9  | 60.2  | 90.4  |
| 98      | 42.5  | 36.5  | 54.7  |





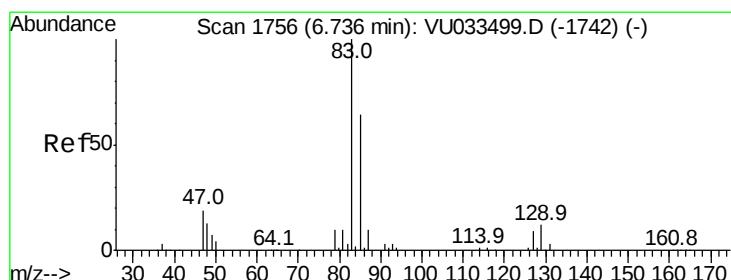
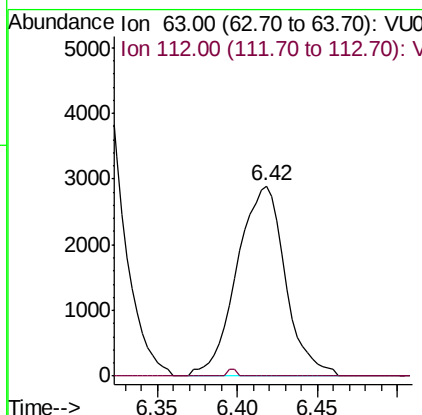
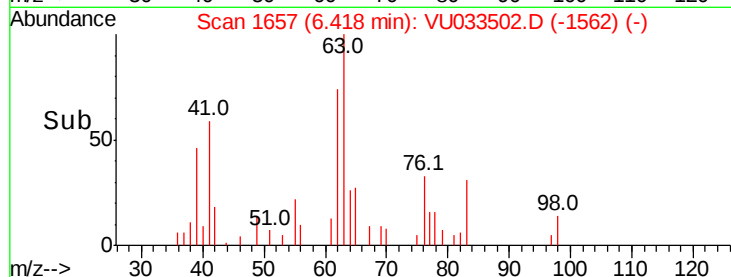
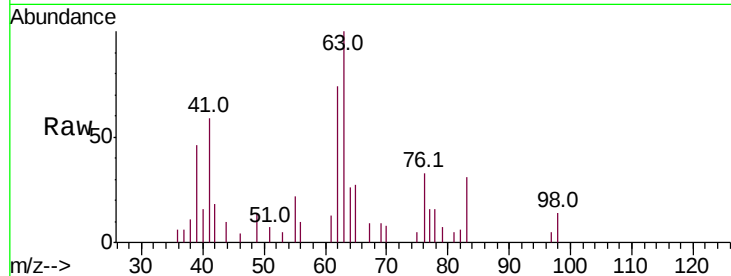
#37  
 1,2-Dichloropropane  
 Concen: 2.469 ug/L  
 RT: 6.42 min Scan# 1657  
 Delta R.T. 0.01 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 MDL02

Tot Ion: 63 Resp: 5983  
 Ion Ratio Lower Upper  
 63 100  
 112 0.7 3.0 4.6#

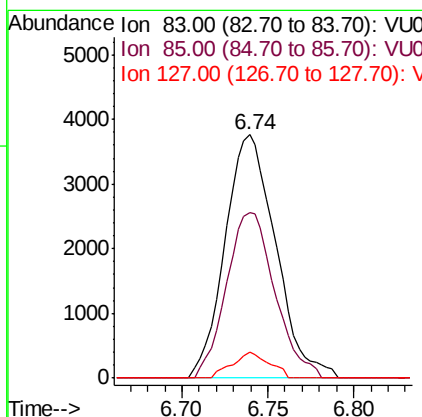
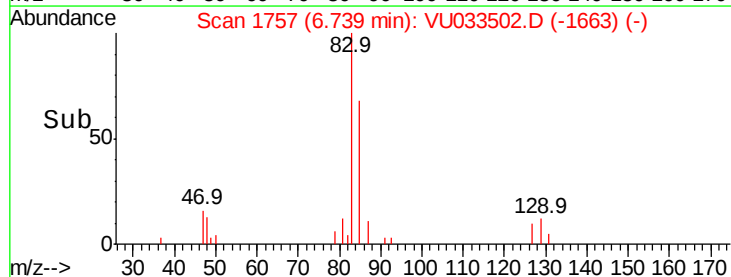
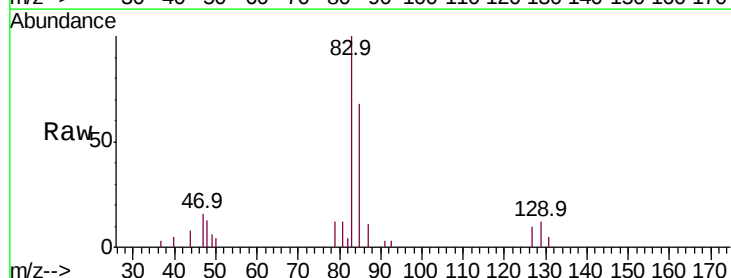
Manual Integrations  
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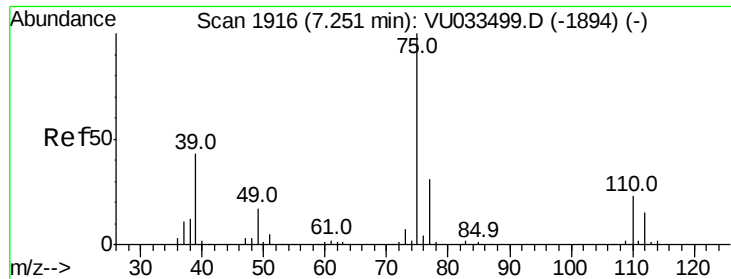
MMDadoda  
 7/31/2019 10:33:59 AM



#38  
 Bromodichloromethane  
 Concen: 2.460 ug/L  
 RT: 6.74 min Scan# 1757  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Tgt Ion: 83 Resp: 7706  
 Ion Ratio Lower Upper  
 83 100  
 85 68.1 45.1 83.9  
 127 10.4 7.2 10.8





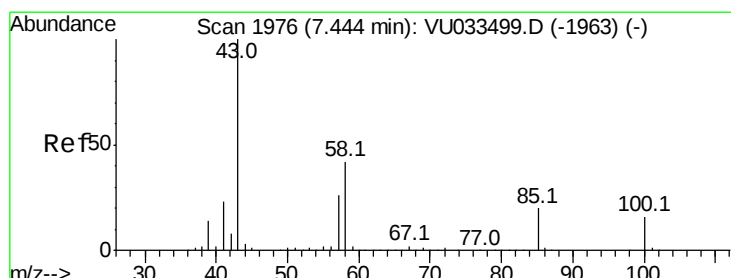
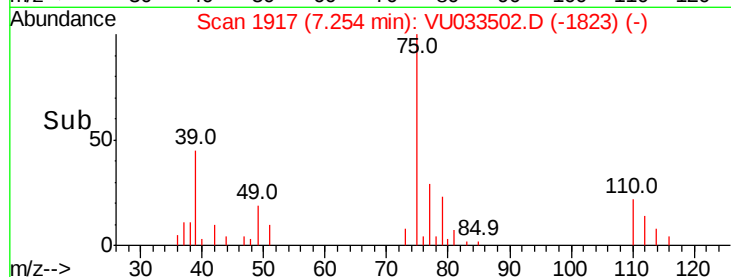
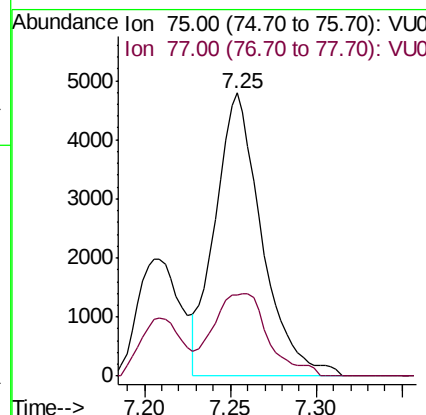
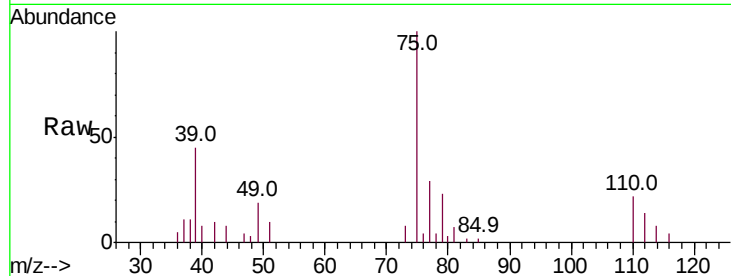
#39  
 cis-1,3-Dichloropropene  
 Concen: 2.400 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL02

Tot Ion: 75 Resp: 9077  
 Ion Ratio Lower Upper  
 75 100  
 77 28.7 22.3 41.5

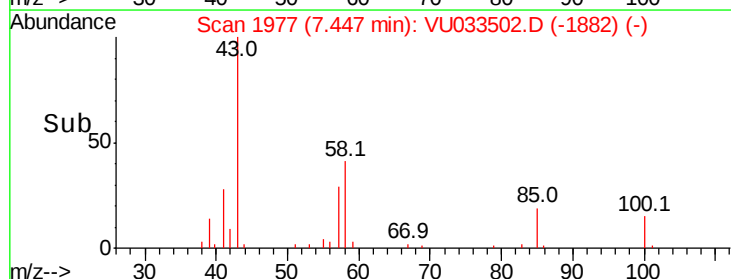
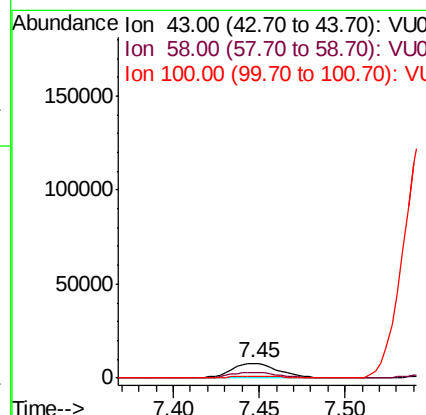
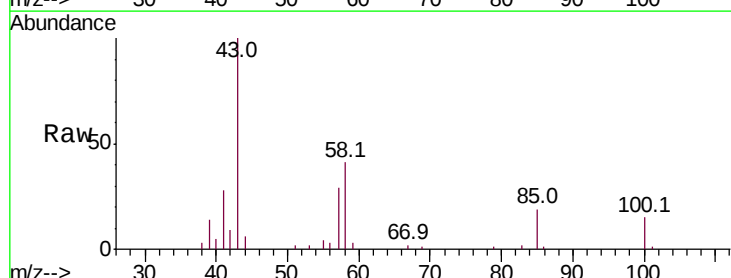
Manual Integrations  
 APPROVED

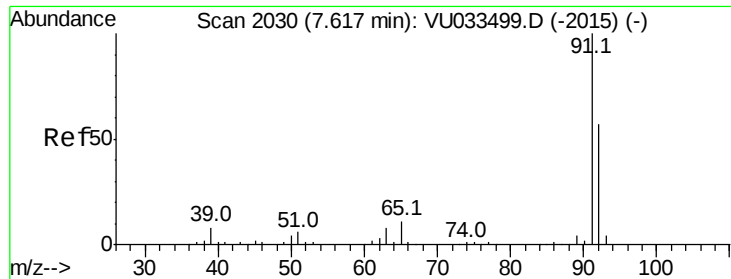
MMDadoda  
 7/31/2019 10:33:59 AM



#40  
 4-Methyl-2-pentanone  
 Concen: 4.552 ug/L  
 RT: 7.45 min Scan# 1977  
 Delta R.T. 0.01 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Tgt Ion: 43 Resp: 15229  
 Ion Ratio Lower Upper  
 43 100  
 58 40.7 32.8 49.2  
 100 15.4 12.9 19.3





#42

Toluene

Concen: 2.624 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 25537

Ion Ratio Lower Upper

91 100

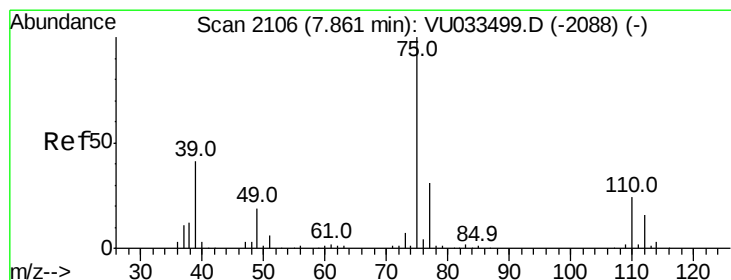
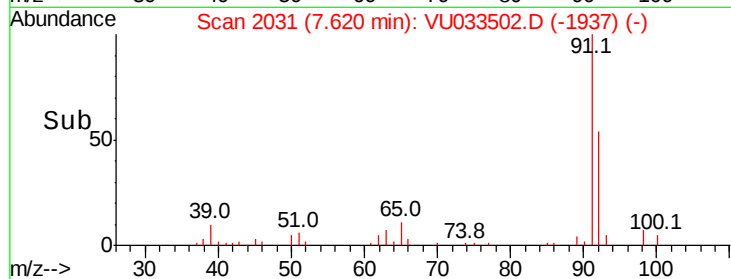
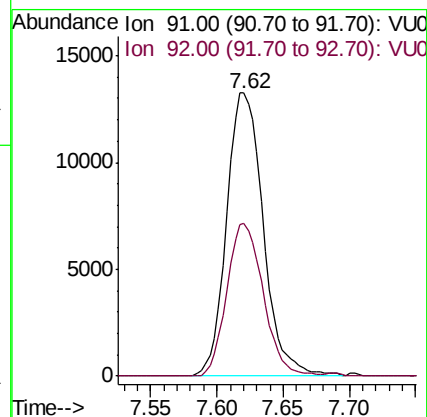
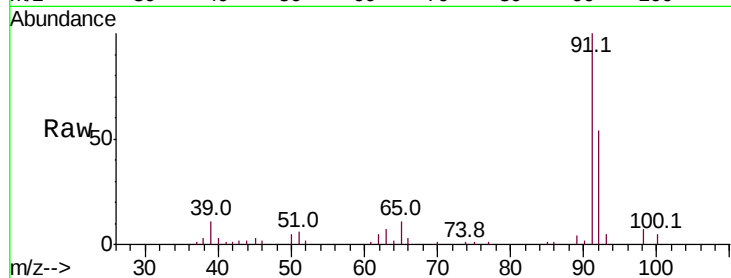
92 54.0 40.2 74.6

Manual Integrations

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MMDadoda

7/31/2019 10:33:59 AM



#44

trans-1,3-Dichloropropene

Concen: 2.543 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033502.D

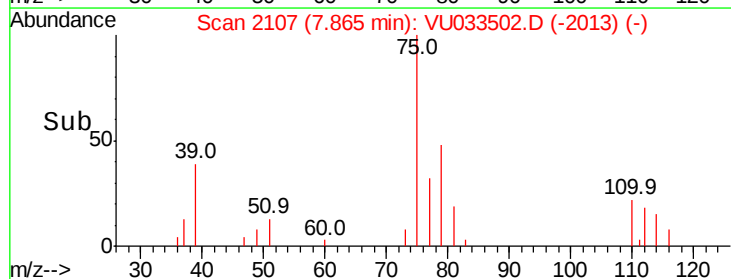
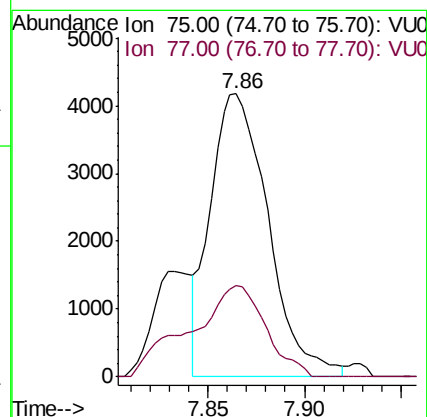
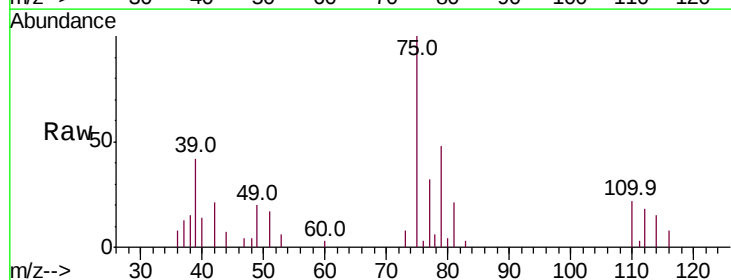
Acq: 30 Jul 2019 19:12

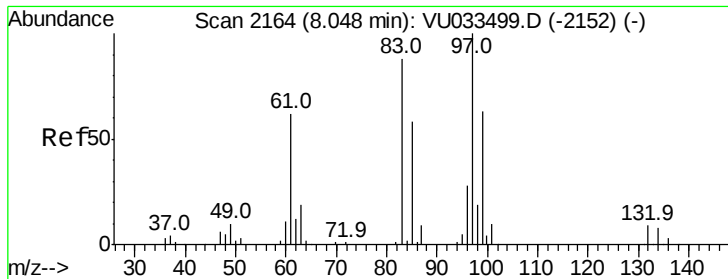
Tgt Ion: 75 Resp: 8691

Ion Ratio Lower Upper

75 100

77 32.1 22.7 42.1





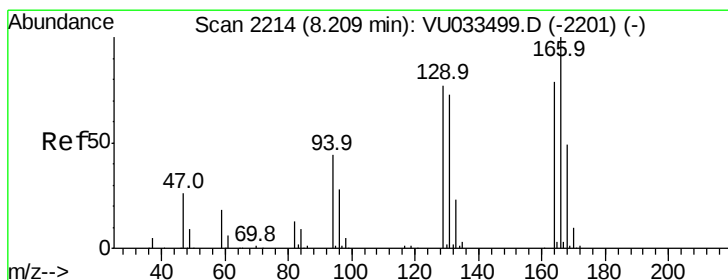
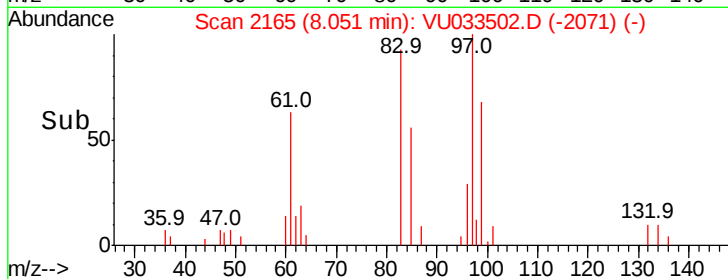
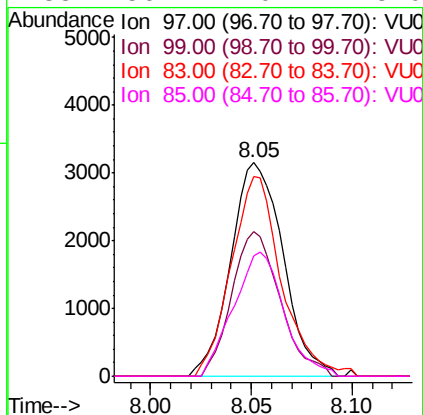
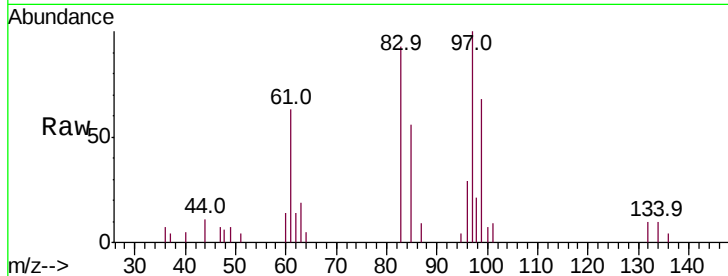
#45  
1,1,2-Trichloroethane  
Concen: 2.492 ug/L  
RT: 8.05 min Scan# 2165  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL02

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 5732  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 67.6  | 44.4  | 82.4  |
| 83       | 93.5  | 61.5  | 114.1 |
| 85       | 56.1  | 40.4  | 75.0  |

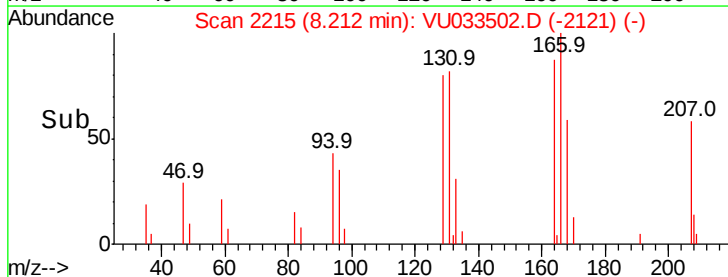
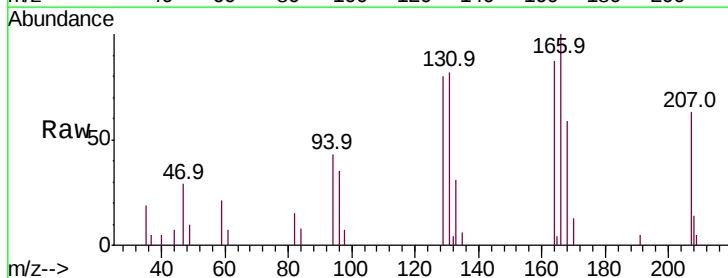
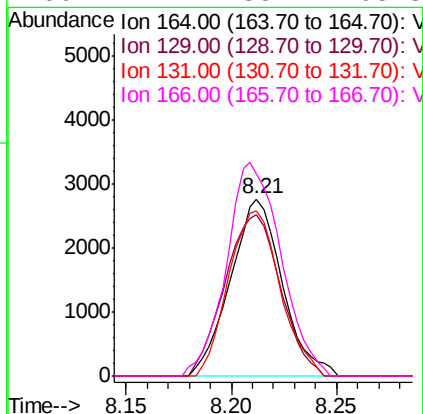
Manual Integrations  
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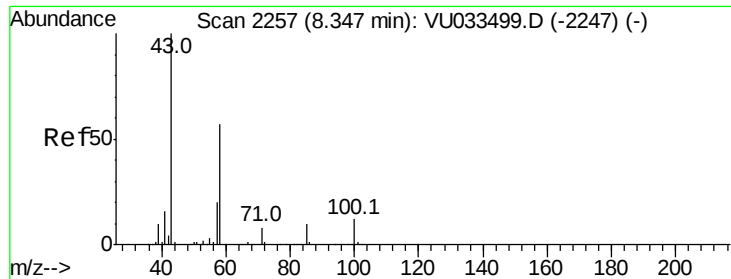
MMDadoda  
7/31/2019 10:33:59 AM



#46  
Tetrachloroethene  
Concen: 2.424 ug/L  
RT: 8.21 min Scan# 2215  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 4725  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 91.3  | 65.5  | 121.7 |
| 131      | 93.3  | 63.3  | 117.7 |
| 166      | 114.4 | 88.2  | 163.8 |





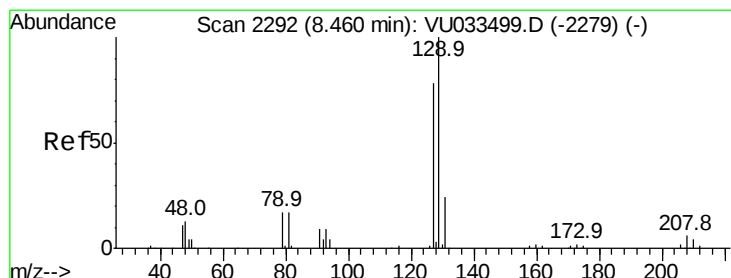
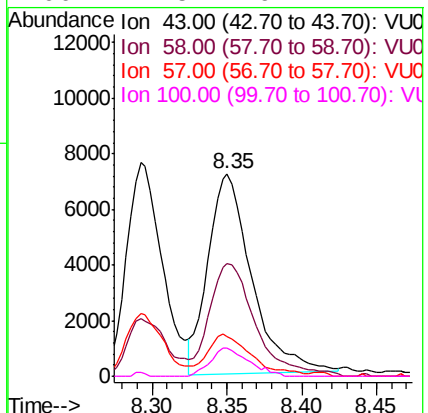
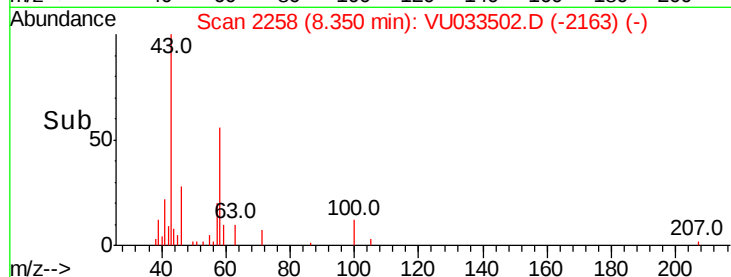
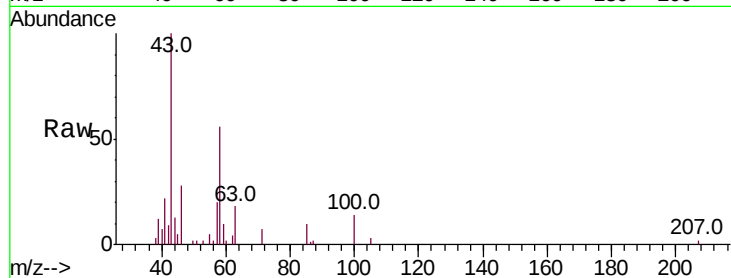
#48  
2-Hexanone  
Concen: 5.383 ug/L  
RT: 8.35 min Scan# 2258  
Delta R.T. 0.01 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL02

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 43      | 100  |       |       |       |
| 58      | 59.7 | 45.8  | 68.6  |       |
| 57      | 18.5 | 15.8  | 23.6  |       |
| 100     | 11.5 | 9.4   | 14.2  |       |

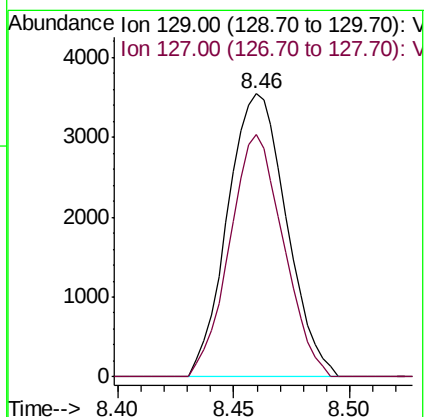
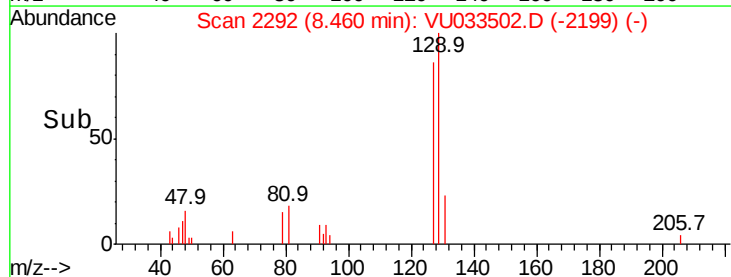
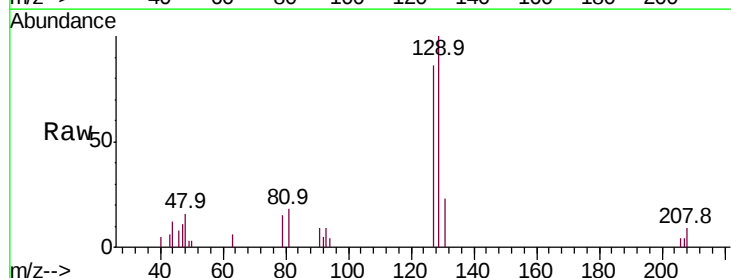
Manual Integrations  
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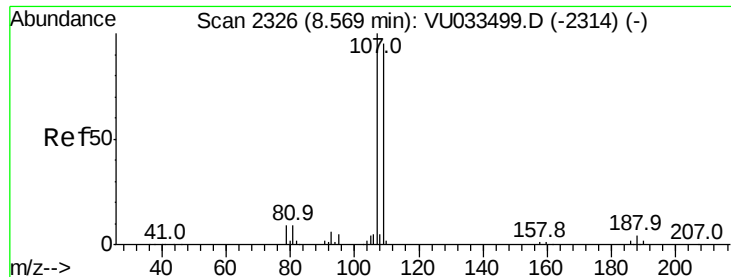
MMDadoda  
7/31/2019 10:33:59 AM



#49  
Dibromochloromethane  
Concen: 2.388 ug/L  
RT: 8.46 min Scan# 2292  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 85.8 | 53.8  | 99.8  |       |





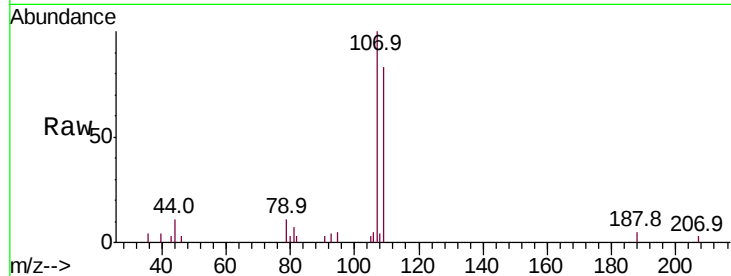
#50  
1,2-Dibromoethane  
Concen: 2.574 ug/L  
RT: 8.57 min Scan# 2327  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 107     | 100   |            |            |
| 109     | 82.6  | 66.8       | 124.0      |
| 188     | 5.0   | 3.0        | 4.4#       |

Manual Integrations  
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7/31/2019 10:33:59 AM

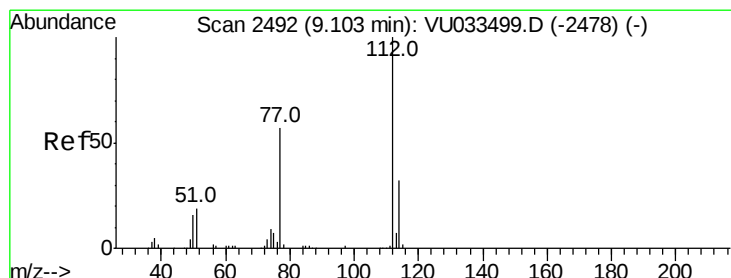
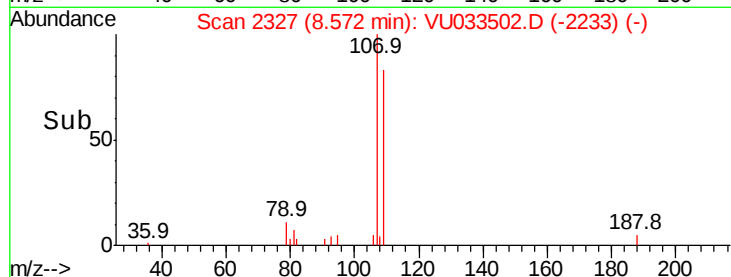
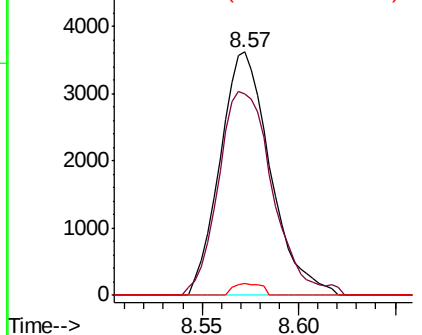


Abundance

Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51  
Chlorobenzene  
Concen: 2.557 ug/L  
RT: 9.10 min Scan# 2492  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

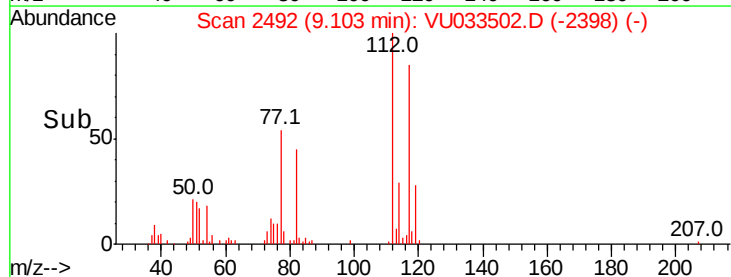
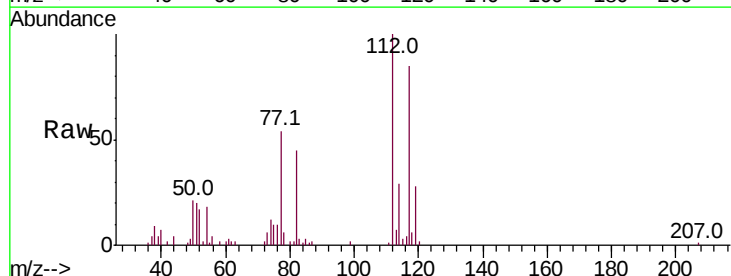
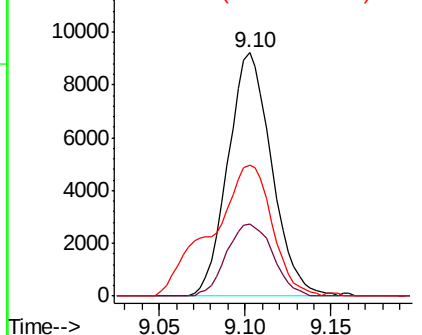
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 112     | 100   |            |            |
| 114     | 29.4  | 22.3       | 41.5       |
| 77      | 54.0  | 45.6       | 68.4       |

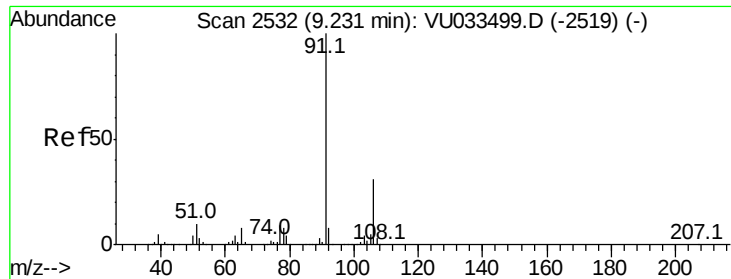
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 2.380 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 24951

Ion Ratio Lower Upper

91 100

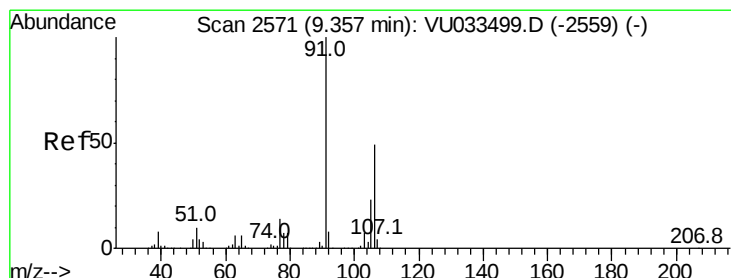
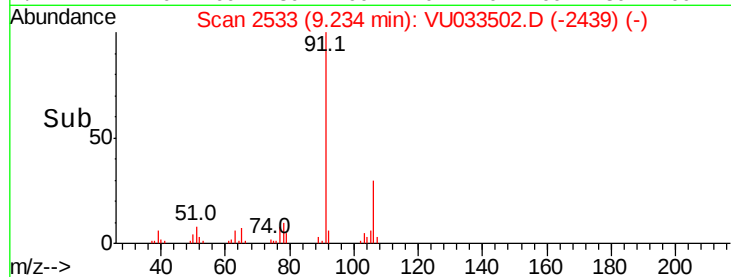
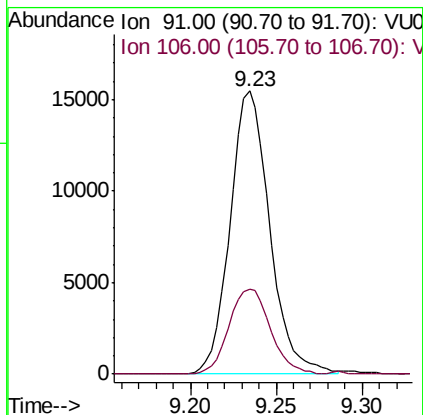
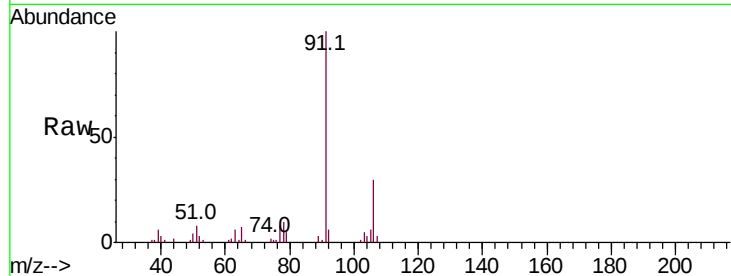
106 30.2 22.2 41.2

Manual Integrations

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MMDadoda

7/31/2019 10:33:59 AM



#53

m,p-Xylene

Concen: 2.090 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033502.D

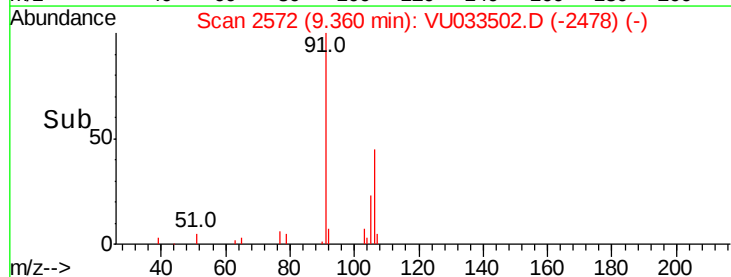
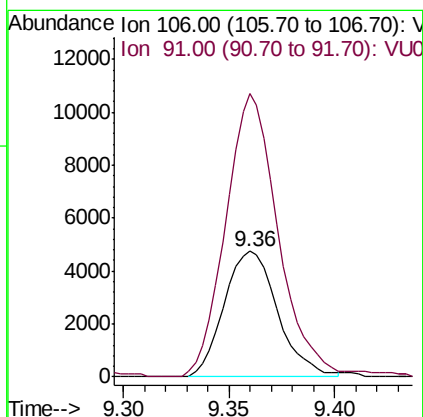
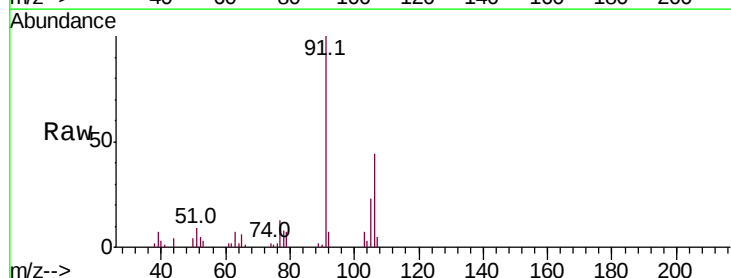
Acq: 30 Jul 2019 19:12

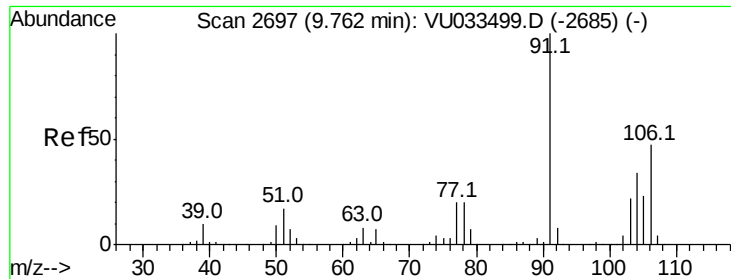
Tgt Ion: 106 Resp: 8410

Ion Ratio Lower Upper

106 100

91 225.6 143.0 265.6





#54

o-xylene

Concen: 2.154 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

Tot Ion:106 Resp: 8407

Ion Ratio Lower Upper

106 100

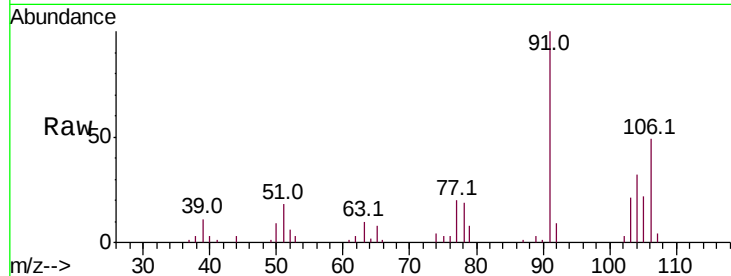
91 203.0 148.4 275.6

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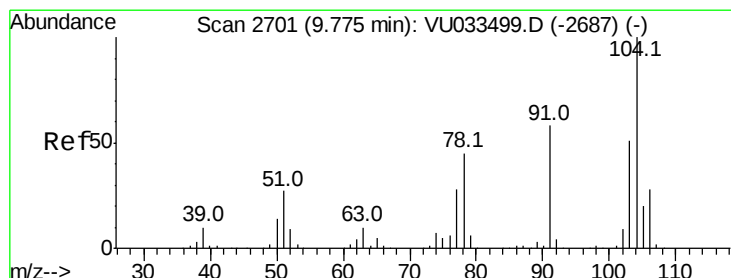
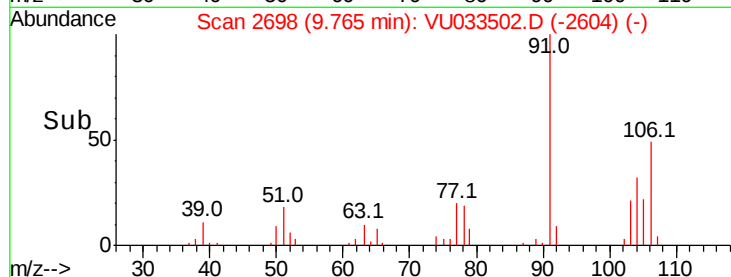
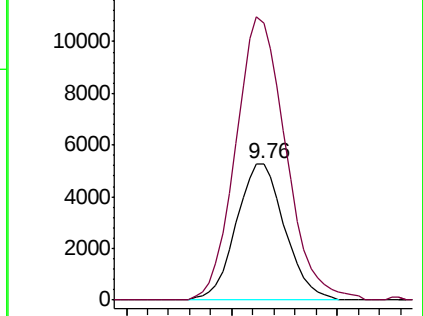
MMDadoda

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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: 2.106 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033502.D

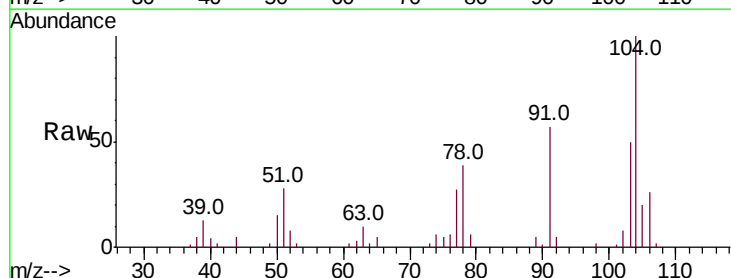
Acq: 30 Jul 2019 19:12

Tgt Ion:104 Resp: 13959

Ion Ratio Lower Upper

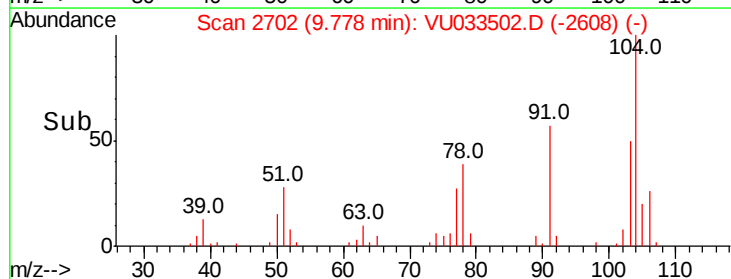
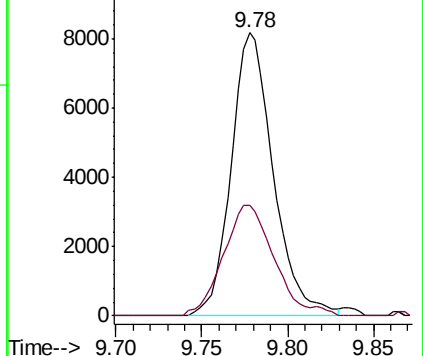
104 100

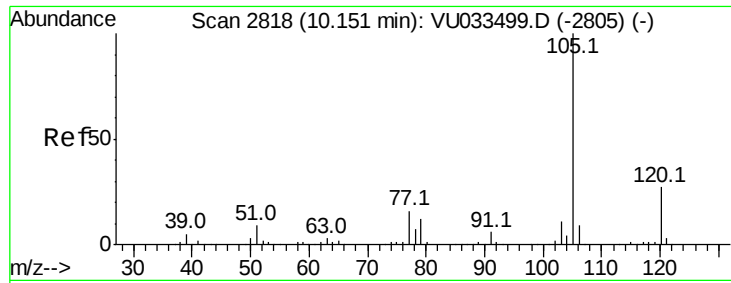
78 39.3 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





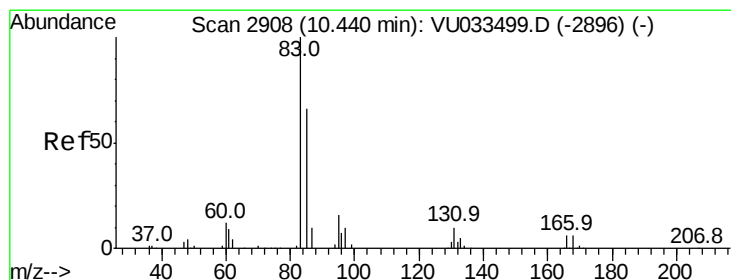
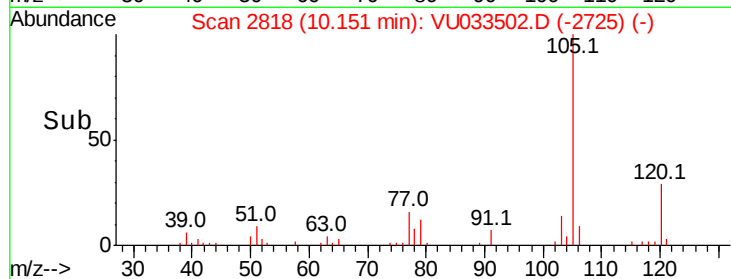
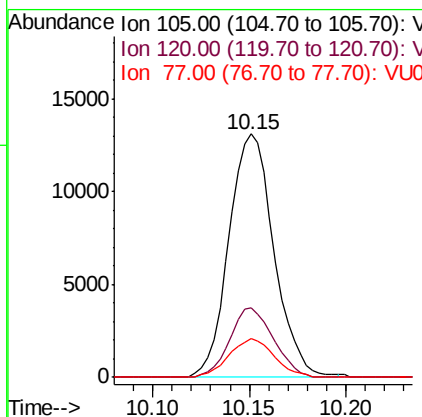
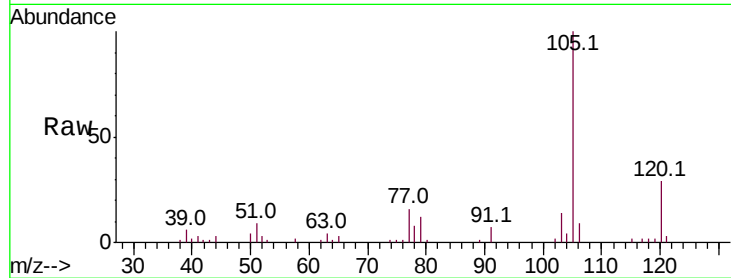
#56  
Isopropylbenzene  
Concen: 2.081 ug/L  
RT: 10.15 min Scan# 2818  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Instrument :  
MSVOA\_U  
ClientSampled :  
MDL02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.6  | 21.4  | 32.0  |
| 77      | 15.8  | 12.5  | 18.7  |

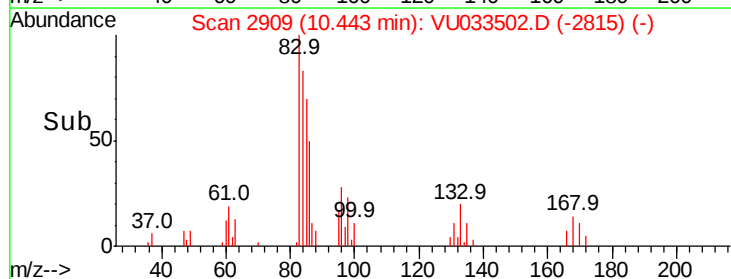
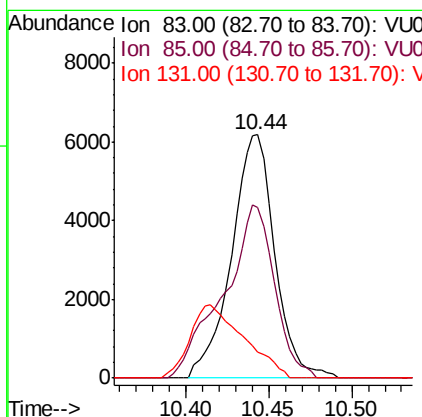
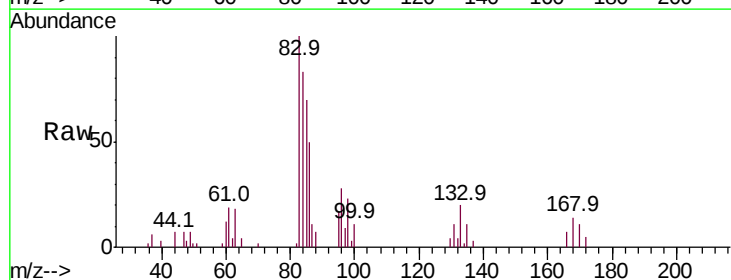
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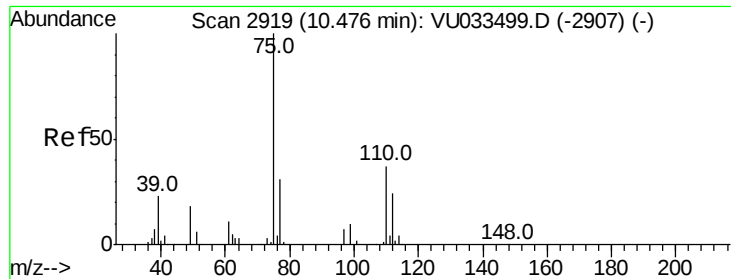
MMDadoda  
7/31/2019 10:33:59 AM



#58  
1,1,2,2-Tetrachloroethane  
Concen: 2.702 ug/L  
RT: 10.44 min Scan# 2909  
Delta R.T. 0.00 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 70.0  | 45.4  | 84.4  |
| 131     | 10.8  | 7.9   | 11.9  |





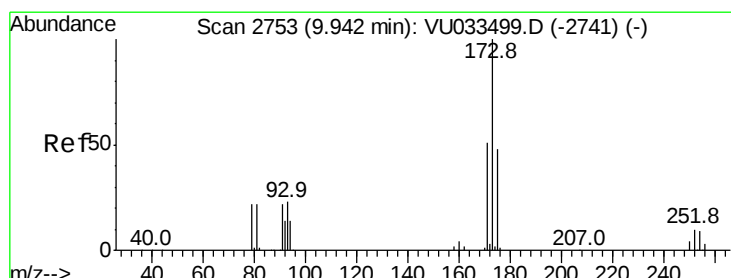
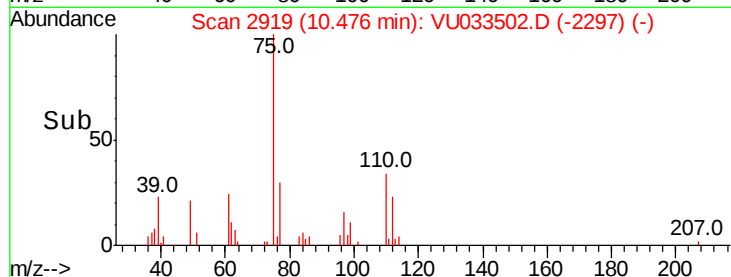
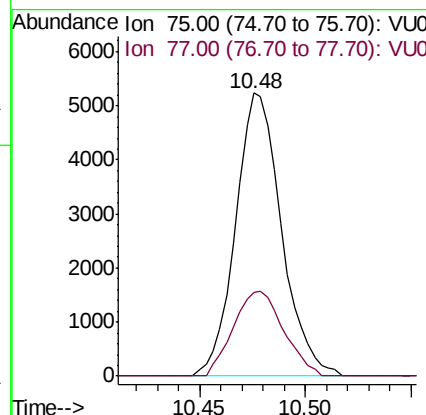
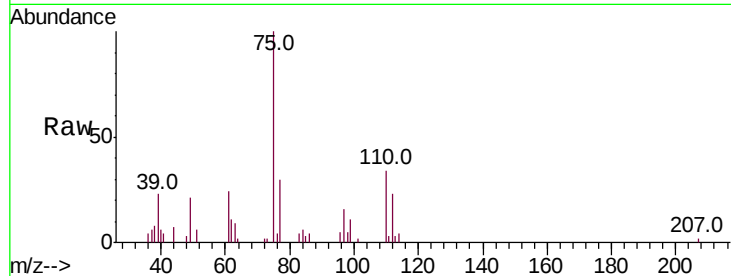
#59  
 1,2,3-Trichloropropane  
 Concen: 2.473 ug/L  
 RT: 10.48 min Scan# 2919  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Tot Ion: 75 Resp: 7908  
 Ion Ratio Lower Upper  
 75 100  
 77 32.8 25.8 38.6

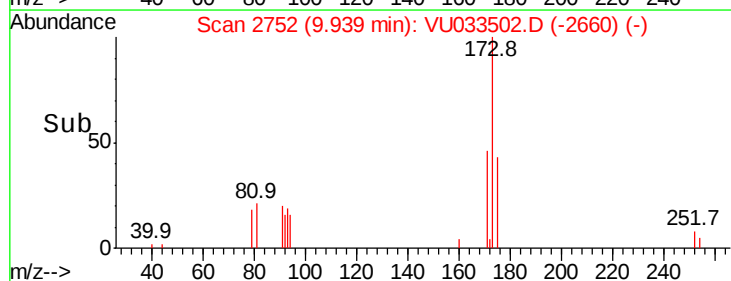
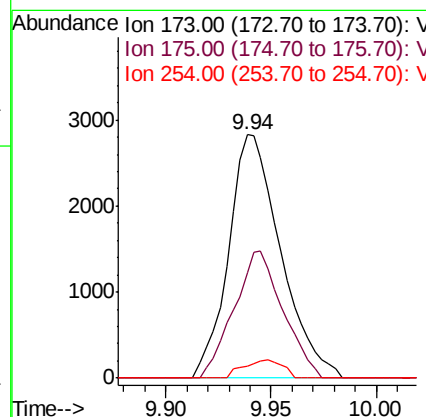
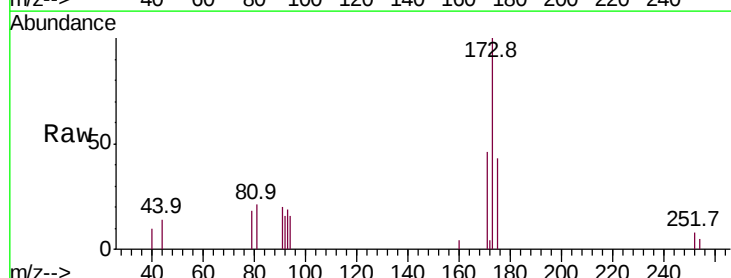
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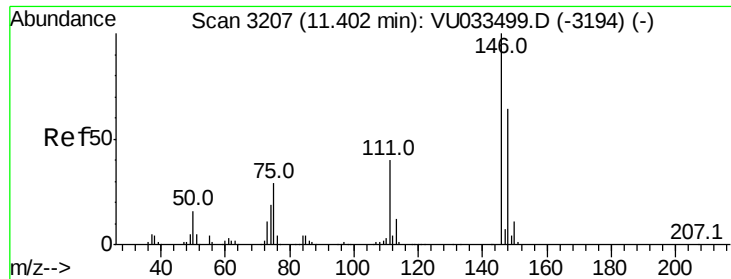
MMDadoda  
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#61  
 Bromoform  
 Concen: 2.600 ug/L  
 RT: 9.94 min Scan# 2752  
 Delta R.T. -0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Tgt Ion: 173 Resp: 4860  
 Ion Ratio Lower Upper  
 173 100  
 175 49.0 38.7 58.1  
 254 5.7 7.5 11.3#





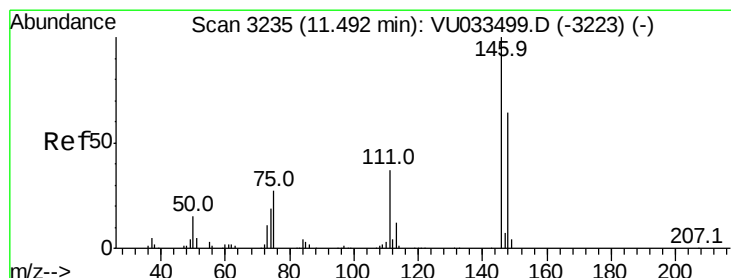
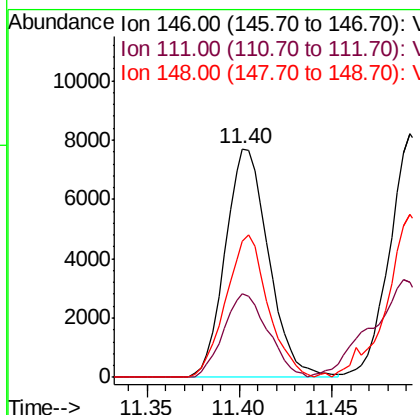
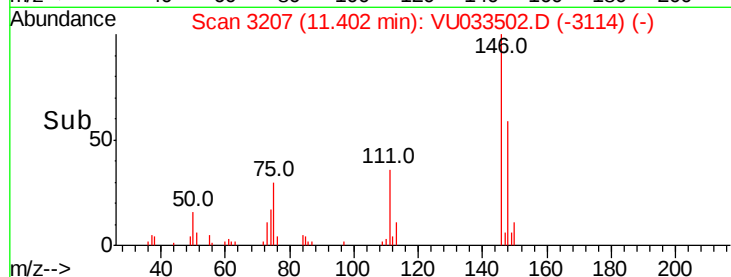
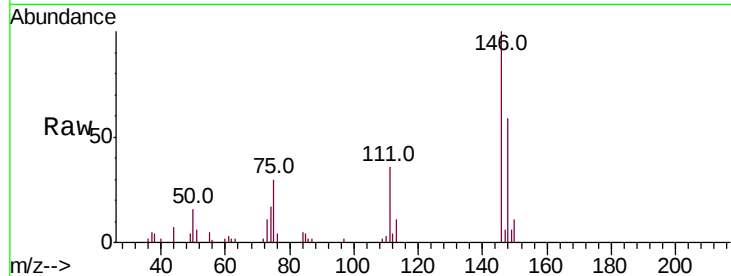
#62  
 1,3-Dichlorobenzene  
 Concen: 2.635 ug/L  
 RT: 11.40 min Scan# 3207  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.3  | 28.1  | 52.1  |
| 148     | 59.4  | 45.0  | 83.6  |

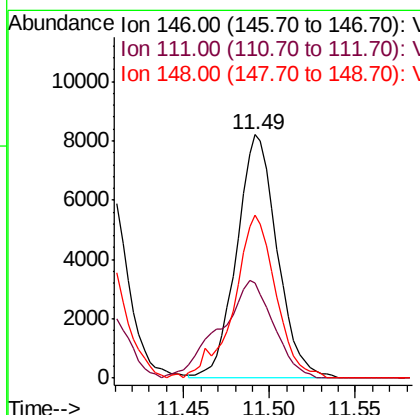
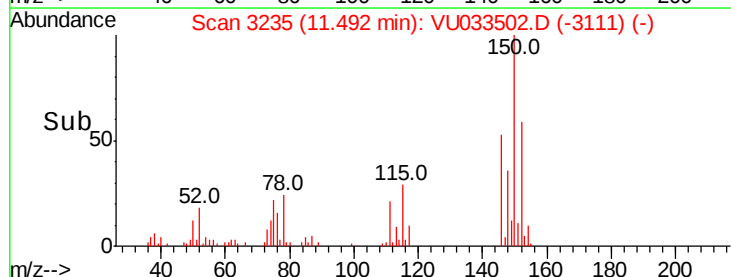
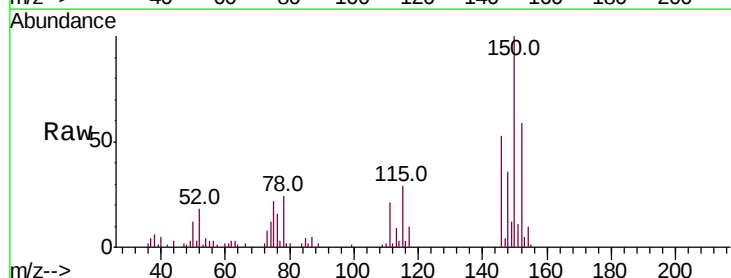
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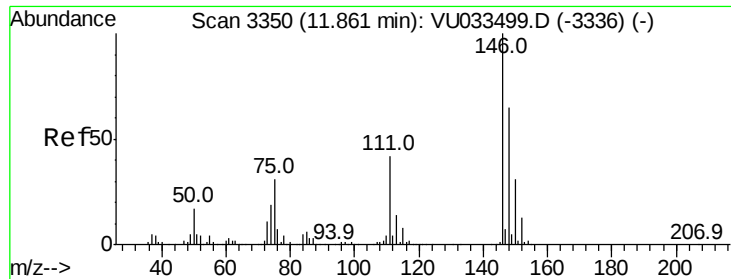
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#63  
 1,4-Dichlorobenzene  
 Concen: 2.719 ug/L  
 RT: 11.49 min Scan# 3235  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.2  | 27.2  | 50.4  |
| 148     | 67.0  | 44.5  | 82.7  |





#65

1,2-Dichlorobenzene

Concen: 2.681 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

Instrument :

MSVOA\_U

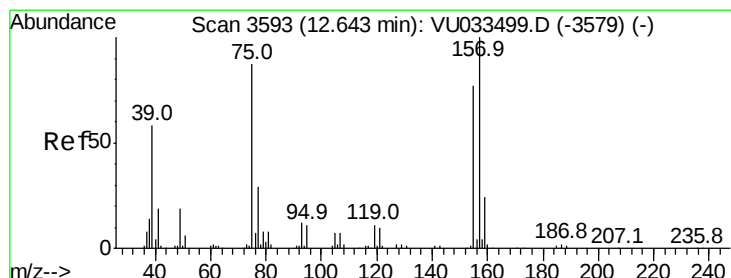
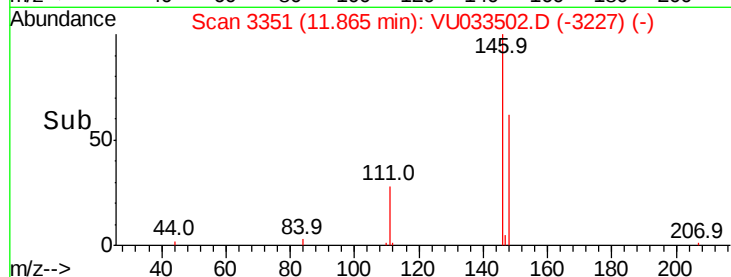
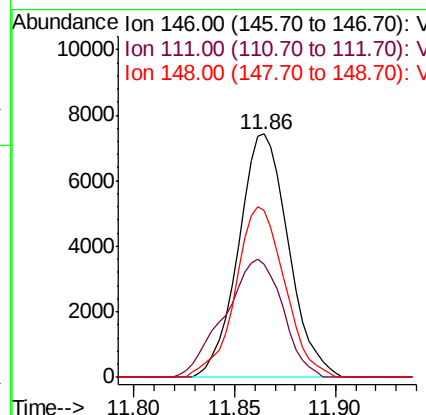
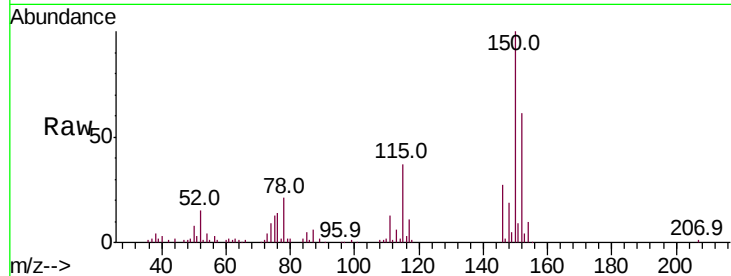
ClientSampled :

MDL02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 12887 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 46.5  | 31.7  | 47.5  |
| 148       | 68.5  | 50.3  | 75.5  |

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#66

1,2-Dibromo-3-chloropropane

Concen: 2.389 ug/L

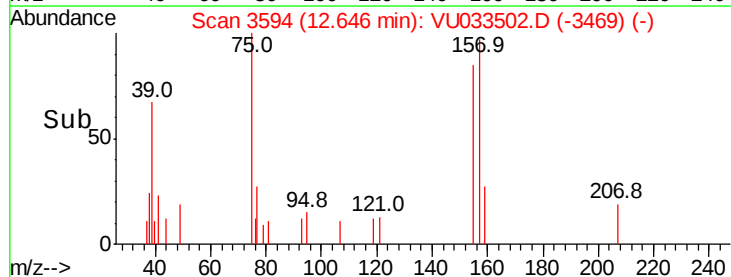
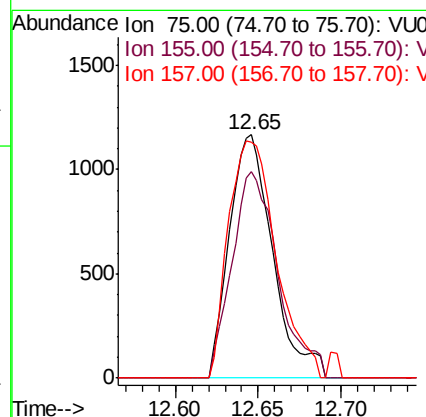
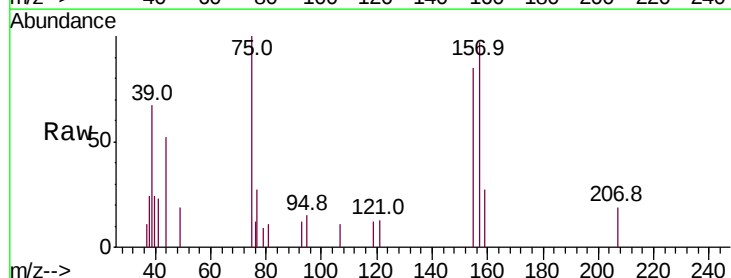
RT: 12.65 min Scan# 3594

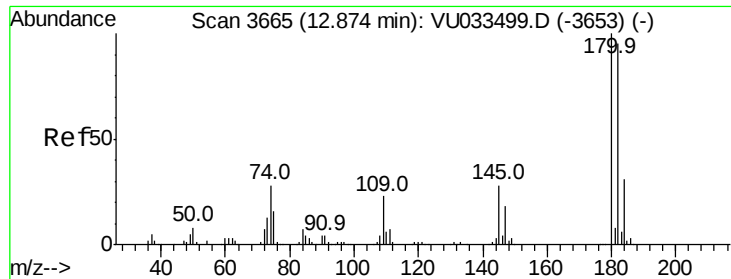
Delta R.T. 0.00 min

Lab File: VU033502.D

Acq: 30 Jul 2019 19:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 2121  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 85.0  | 69.4  | 104.0 |
| 157       | 97.1  | 91.8  | 137.8 |





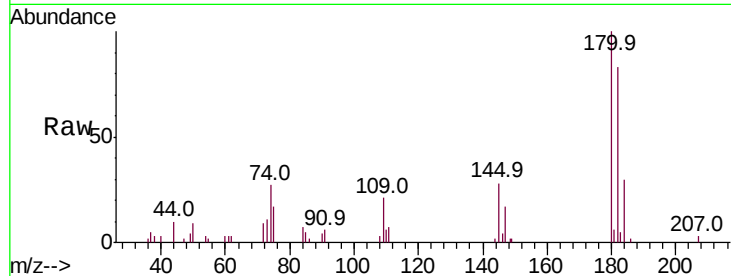
#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.556 ug/L  
 RT: 12.88 min Scan# 3666  
 Delta R.T. 0.00 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

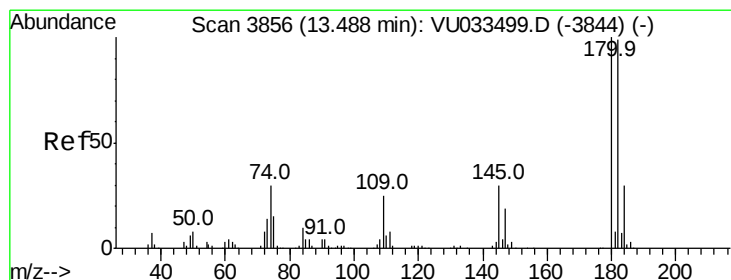
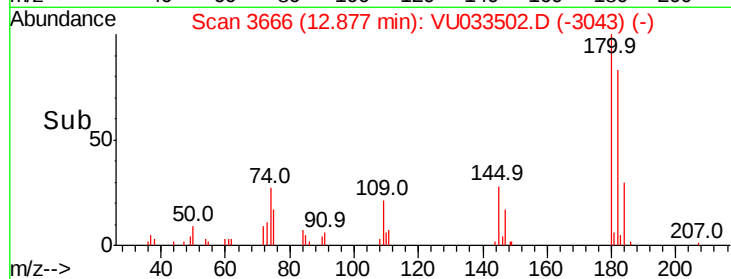
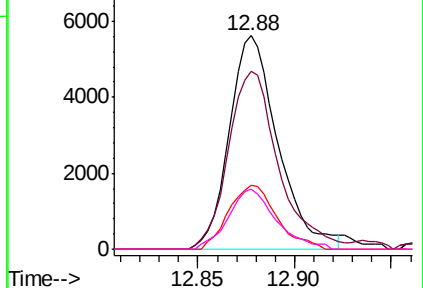
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 180   | Resp: | 9802  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 86.5  | 75.6  | 113.4 |
| 184       | 29.8  | 24.2  | 36.2  |
| 145       | 27.5  | 22.7  | 34.1  |

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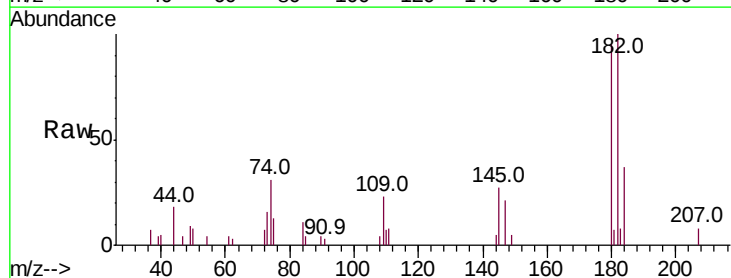


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

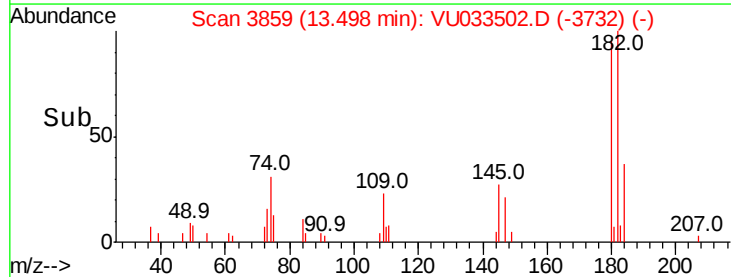
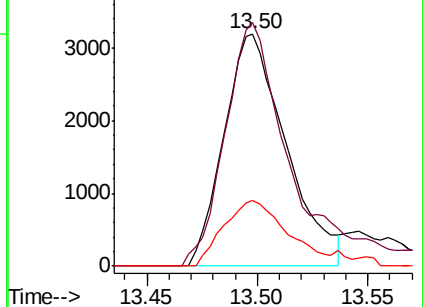


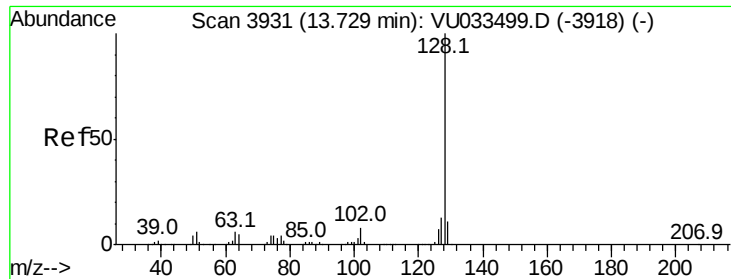
#68  
 1,2,4-trichlorobenzene  
 Concen: 1.901 ug/L  
 RT: 13.50 min Scan# 3859  
 Delta R.T. 0.01 min  
 Lab File: VU033502.D  
 Acq: 30 Jul 2019 19:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 6229  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 93.5  | 75.8  | 113.8 |
| 145       | 29.0  | 24.3  | 36.5  |



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





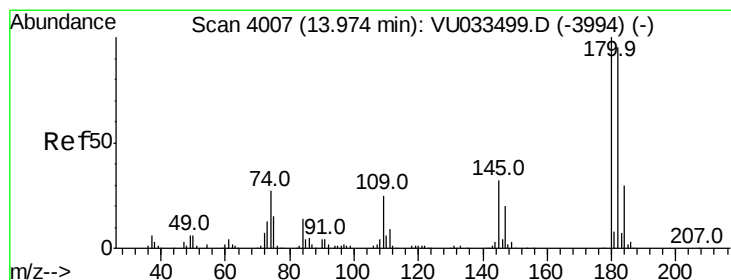
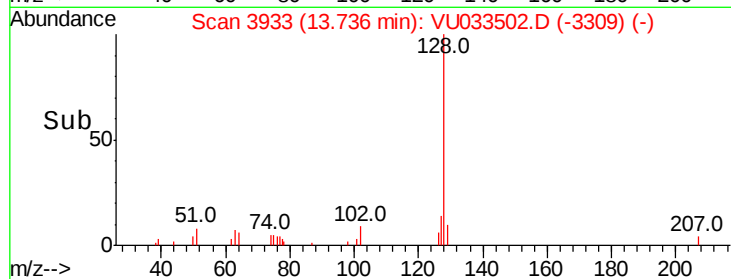
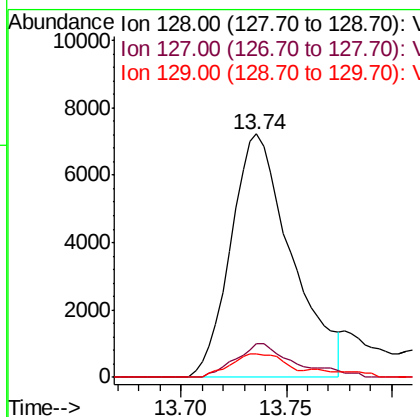
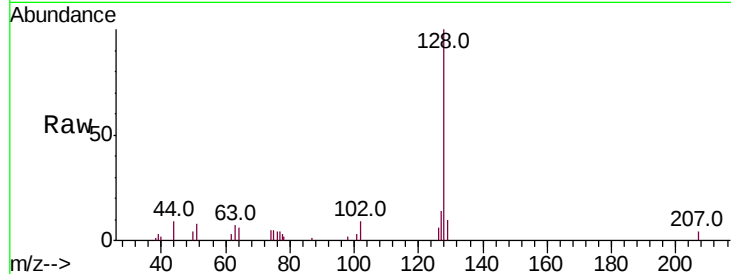
#69  
Naphthalene  
Concen: 1.533 ug/L  
RT: 13.74 min Scan# 3933  
Delta R.T. 0.01 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.0  | 10.8  | 16.2  |
| 129     | 8.8   | 8.7   | 13.1  |

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#70  
1,2,3-Trichlorobenzene  
Concen: 2.221 ug/L  
RT: 13.98 min Scan# 4009  
Delta R.T. 0.01 min  
Lab File: VU033502.D  
Acq: 30 Jul 2019 19:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 89.3  | 75.5  | 113.3 |
| 145     | 25.8  | 24.4  | 36.6  |

