

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111219\  
 Data File : VY000653.D  
 Acq On : 12 Nov 2019 14:14  
 Operator : SY/MD  
 Sample : MDL01  
 Misc : 5.00G/10ML/MSVOA Y/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

Manual Integrations  
 APPROVED

MMDadoda  
 11/15/2019 3:06:49 PM

Quant Time: Nov 13 10:06:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM111219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 13 03:17:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 369592   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 332899   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 156357   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.24   | 65    | 123994   | 23.75    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.00% |
| 7) Chloroethane-d5             | 2.76   | 69    | 114568   | 24.70    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.80% |
| 10) 1,1-Dichloroethene-d2      | 3.85   | 63    | 172083   | 17.85    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 71.40% |
| 20) 2-Butanone-d5              | 6.90   | 46    | 102685   | 47.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 95.36% |
| 24) Chloroform-d               | 7.49   | 84    | 216762   | 22.35    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.40% |
| 26) 1,2-Dichloroethane-d4      | 8.15   | 65    | 131973   | 23.47    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 93.88% |
| 29) Benzene-d6                 | 8.12   | 84    | 465590   | 24.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.36% |
| 33) 1,2-Dichloropropane-d6     | 9.13   | 67    | 146426   | 24.17    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 96.68% |
| 37) Toluene-d8                 | 10.18  | 98    | 426027   | 23.59    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 94.36% |
| 38) trans-1,3-Dichloropropene- | 10.44  | 79    | 65649    | 23.22    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.88% |
| 39) 2-Hexanone-d5              | 10.79  | 63    | 78365    | 47.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 95.72% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.56  | 84    | 135603   | 23.01    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 92.04% |
| 61) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 146468   | 23.42    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.68% |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.90 | 85  | 6066   | 1.242 ug/L   | 92     |
| 3) Chloromethane               | 2.12 | 50  | 7444   | 1.216 ug/L   | 95     |
| 5) Vinyl chloride              | 2.25 | 62  | 7362   | 1.205 ug/L # | 79     |
| 6) Bromomethane                | 2.65 | 94  | 4066   | 1.219 ug/L   | 92     |
| 8) Chloroethane                | 2.79 | 64  | 4737   | 1.236 ug/L # | 50     |
| 9) Trichlorofluoromethane      | 3.12 | 101 | 9822   | 1.135 ug/L   | 97     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 3.91 | 101 | 6022m  | 1.227 ug/L   |        |
| 12) 1,1-Dichloroethene         | 3.87 | 96  | 6190   | 1.292 ug/L # | 1      |
| 13) Acetone                    | 3.96 | 43  | 4781m  | 3.034 ug/L   |        |
| 14) Carbon disulfide           | 4.19 | 76  | 15354  | 1.038 ug/L   | 97     |
| 15) Methyl Acetate             | 4.49 | 43  | 4055m  | 1.123 ug/L   |        |
| 16) Methylene chloride         | 4.72 | 84  | 10654m | 1.746 ug/L   |        |
| 17) Methyl tert-butyl Ether    | 5.22 | 73  | 16438  | 1.128 ug/L # | 77     |
| 18) trans-1,2-Dichloroethene   | 5.22 | 96  | 6472m  | 1.209 ug/L   |        |
| 19) 1,1-Dichloroethane         | 6.02 | 63  | 10798m | 1.147 ug/L   |        |
| 21) 2-Butanone                 | 7.00 | 43  | 8049   | 2.899 ug/L   | 81     |
| 22) cis-1,2-Dichloroethene     | 7.00 | 96  | 6505m  | 1.099 ug/L   |        |

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 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 13 03:17:49 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 23) Bromochloromethane          | 7.35  | 128  | 3179m    | 1.230 | ug/L   |          |
| 25) Chloroform                  | 7.52  | 83   | 18713    | 1.844 | ug/L   | 85       |
| 27) 1,2-Dichloroethane          | 8.24  | 62   | 8968     | 1.322 | ug/L # | 94       |
| 30) Cyclohexane                 | 7.80  | 56   | 9788     | 1.077 | ug/L   | 97       |
| 31) 1,1,1-Trichloroethane       | 7.72  | 97   | 9281     | 1.132 | ug/L   | 95       |
| 32) Carbon tetrachloride        | 7.91  | 117  | 8155     | 1.141 | ug/L   | 95       |
| 34) Benzene                     | 8.17  | 78   | 26939    | 1.238 | ug/L   | 100      |
| 35) Trichloroethene             | 8.95  | 95   | 6520     | 1.142 | ug/L   | 94       |
| 36) Methylcyclohexane           | 9.19  | 83   | 9754     | 0.999 | ug/L   | 88       |
| 40) 1,2-Dichloropropane         | 9.22  | 63   | 6418     | 1.164 | ug/L # | 92       |
| 41) Bromodichloromethane        | 9.50  | 83   | 8700     | 1.226 | ug/L   | 80       |
| 42) cis-1,3-Dichloropropene     | 9.93  | 75   | 10648m   | 1.198 | ug/L   |          |
| 43) 4-Methyl-2-pentanone        | 10.08 | 43   | 13003    | 2.465 | ug/L   | 98       |
| 44) Toluene                     | 10.24 | 91   | 26090    | 1.109 | ug/L   | 91       |
| 45) trans-1,3-Dichloropropene   | 10.47 | 75   | 8457m    | 1.108 | ug/L   |          |
| 46) 1,1,2-Trichloroethane       | 10.65 | 97   | 5874     | 1.298 | ug/L   | 83       |
| 47) Tetrachloroethene           | 10.72 | 164  | 4728     | 1.110 | ug/L   | 94       |
| 49) 2-Hexanone                  | 10.83 | 43   | 11927    | 2.903 | ug/L   | 93       |
| 50) Dibromochloromethane        | 10.99 | 129  | 5508     | 1.078 | ug/L   | 89       |
| 51) 1,2-Dibromoethane           | 11.09 | 107  | 5219     | 1.185 | ug/L # | 84       |
| 52) Chlorobenzene               | 11.51 | 112  | 16897    | 1.132 | ug/L   | 92       |
| 53) Ethylbenzene                | 11.60 | 91   | 28886    | 1.085 | ug/L   | 97       |
| 54) m,p-Xylene                  | 11.70 | 106  | 10624    | 1.055 | ug/L   | 99       |
| 55) o-xylene                    | 12.03 | 106  | 10239    | 1.036 | ug/L   | 90       |
| 56) Styrene                     | 12.04 | 104  | 17422    | 1.061 | ug/L   | 98       |
| 57) Isopropylbenzene            | 12.33 | 105  | 26932    | 1.047 | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.58 | 83   | 8158     | 1.445 | ug/L # | 93       |
| 59) 1,2,3-Trichloropropane      | 12.64 | 75   | 5743     | 1.251 | ug/L   | 96       |
| 62) Bromoform                   | 12.21 | 173  | 3289     | 1.108 | ug/L   | 94       |
| 63) 1,3-Dichlorobenzene         | 13.36 | 146  | 13502    | 1.211 | ug/L   | 95       |
| 64) 1,4-Dichlorobenzene         | 13.44 | 146  | 13690    | 1.228 | ug/L   | 93       |
| 65) 1,2-Dichlorobenzene         | 13.74 | 146  | 13088    | 1.267 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.36 | 75   | 1615     | 1.646 | ug/L # | 70       |
| 67) 1,3,5-Trichlorobenzene      | 14.50 | 180  | 8819     | 1.134 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.00 | 180  | 8184     | 1.178 | ug/L   | 97       |
| 69) Naphthalene                 | 15.23 | 128  | 21753    | 1.256 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 15.42 | 180  | 7960     | 1.232 | ug/L   | 98       |
| -----                           |       |      |          |       |        |          |

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

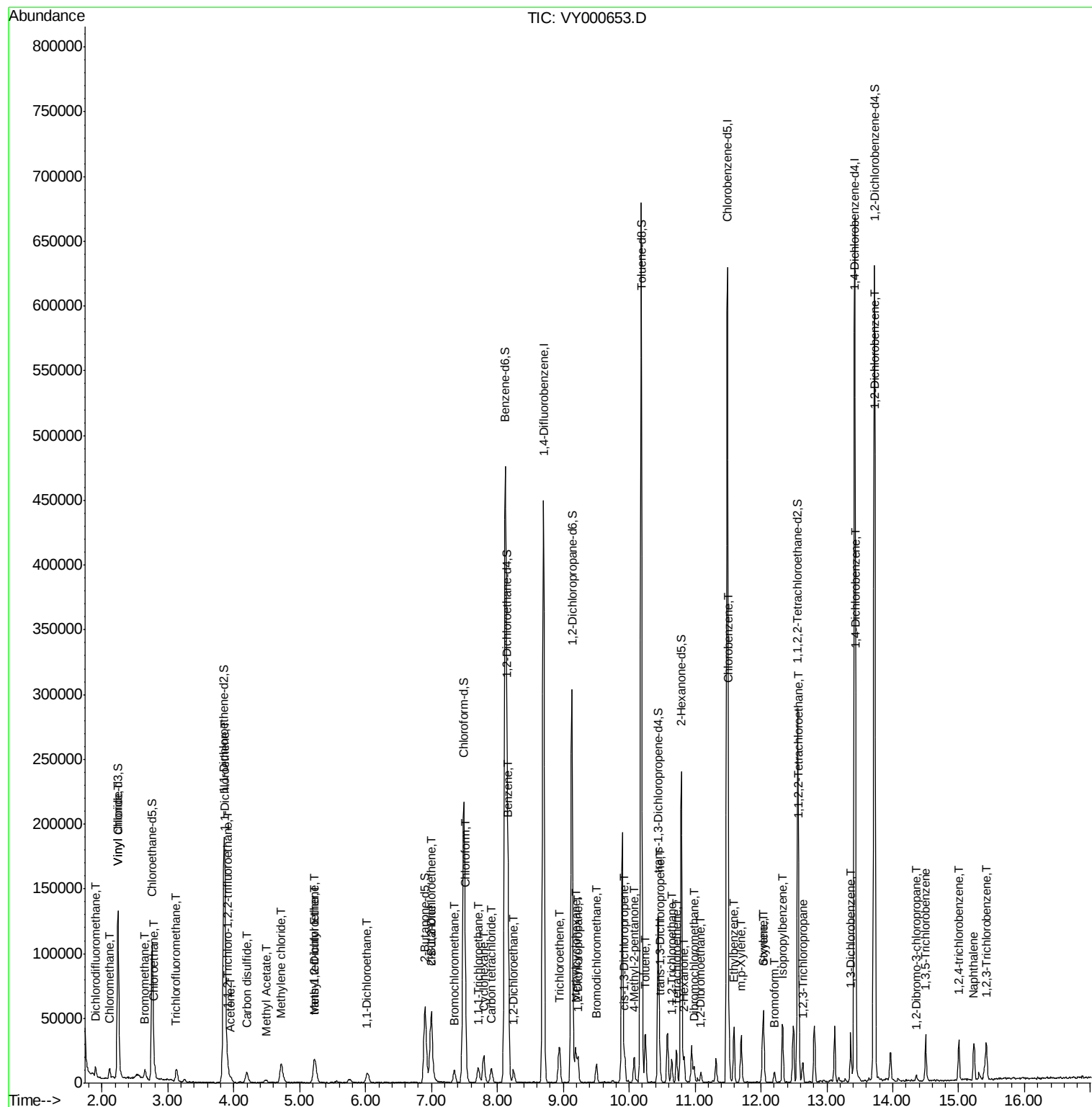
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY111219\  
Data File : VY000653.D  
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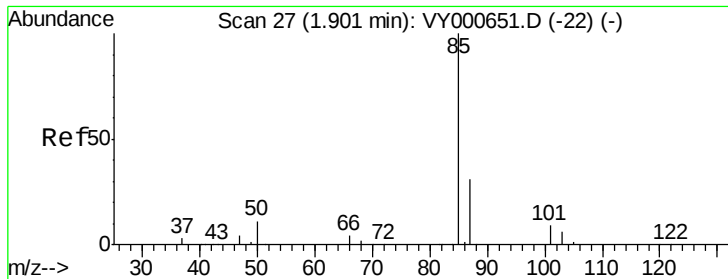
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL01

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.242 ug/L

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 6066

Ion Ratio Lower Upper

85 100

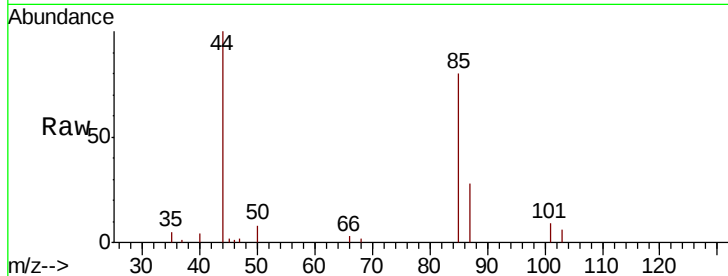
87 36.8 22.7 42.1

Manual Integrations

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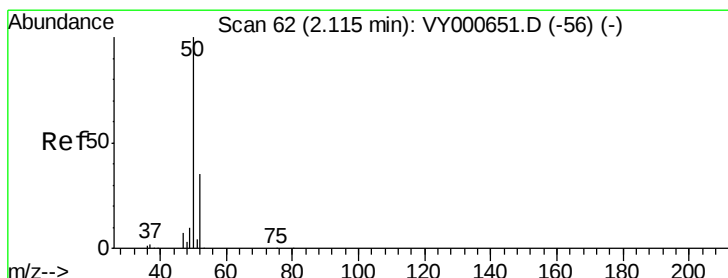
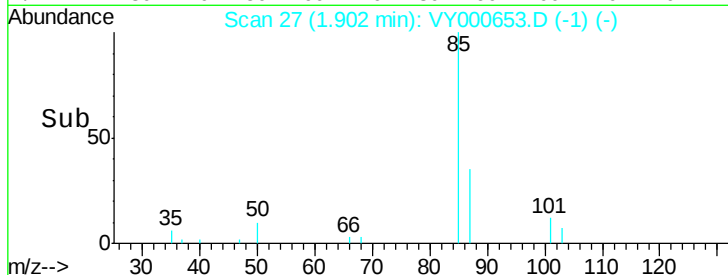
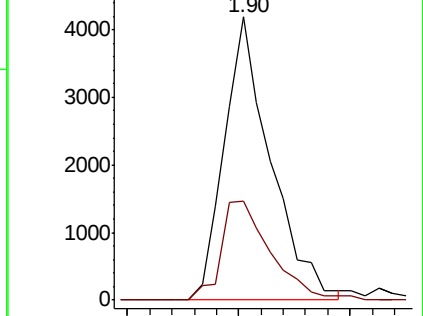
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Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 1.216 ug/L

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY000653.D

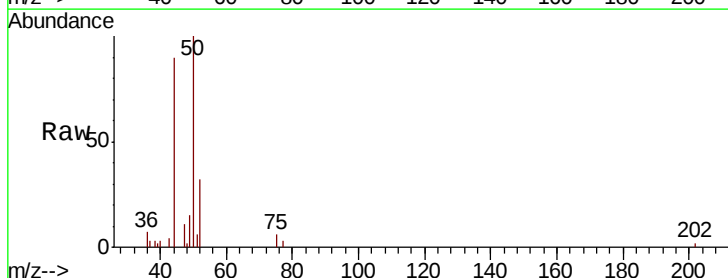
Acq: 12 Nov 2019 14:14

Tgt Ion: 50 Resp: 7444

Ion Ratio Lower Upper

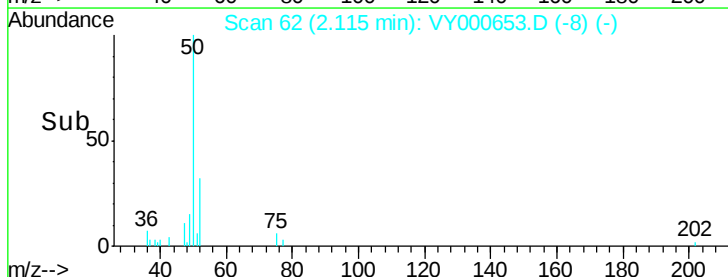
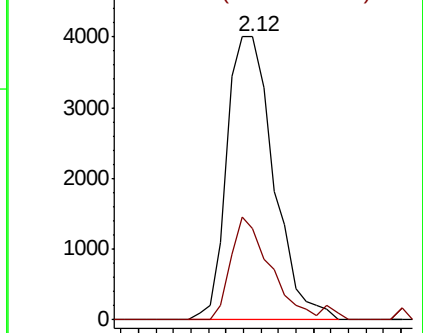
50 100

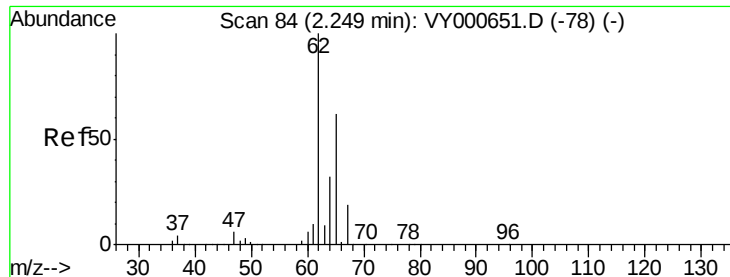
52 32.4 24.9 46.3



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 1.205 ug/L

RT: 2.25 min Scan# 84

Delta R.T. 0.00 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampleID :

MDL01

Tot Ion: 62 Resp: 7362

Ion Ratio Lower Upper

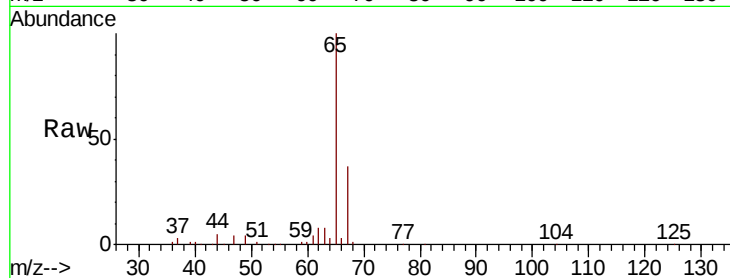
62 100

64 43.1 22.0 40.8#

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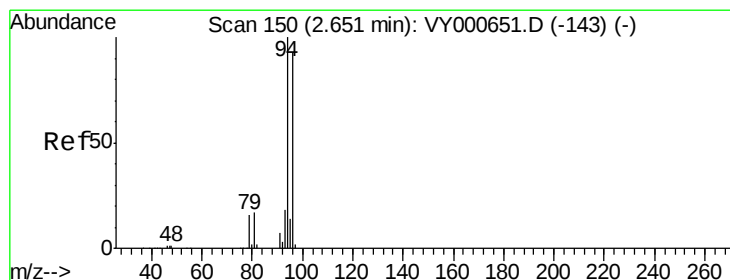
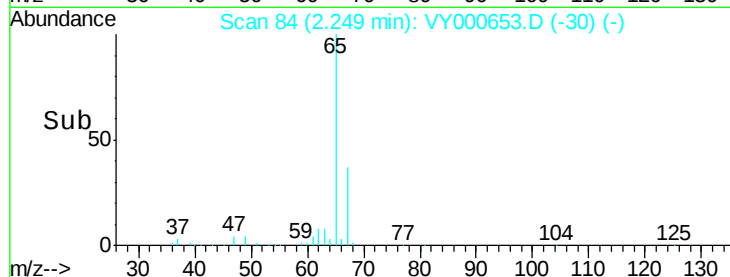
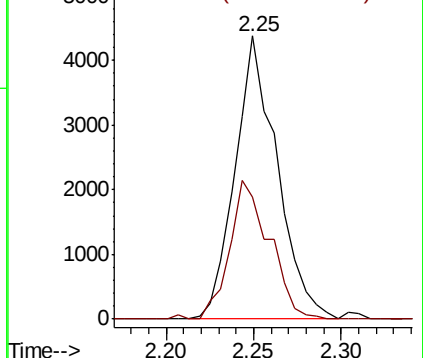
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Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 1.219 ug/L

RT: 2.65 min Scan# 150

Delta R.T. 0.00 min

Lab File: VY000653.D

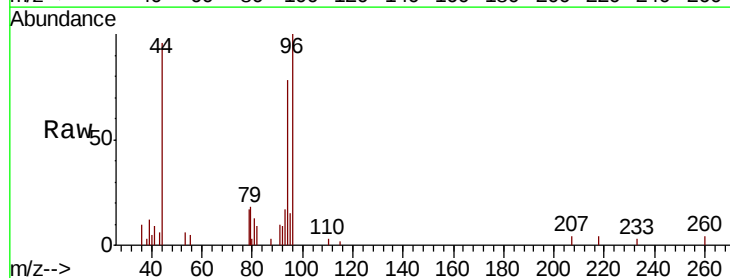
Acq: 12 Nov 2019 14:14

Tgt Ion: 94 Resp: 4066

Ion Ratio Lower Upper

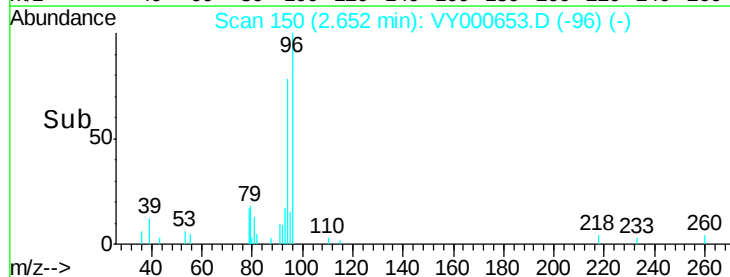
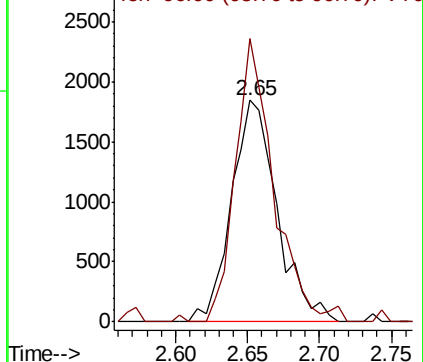
94 100

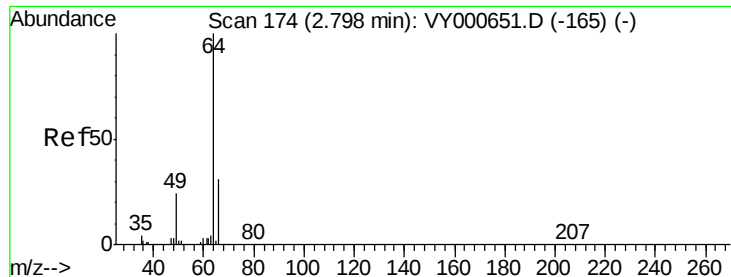
96 105.8 9.8 185.6



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





#8

Chloroethane

Concen: 1.236 ug/L

RT: 2.79 min Scan# 173

Delta R.T. -0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampled :

MDL01

Tot Ion: 64 Resp: 4737

Ion Ratio Lower Upper

64 100

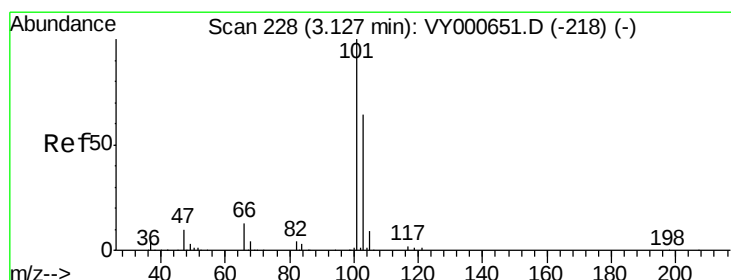
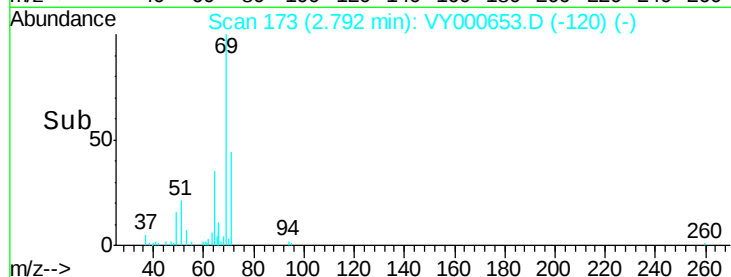
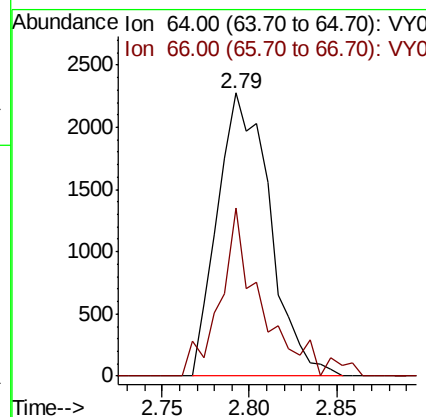
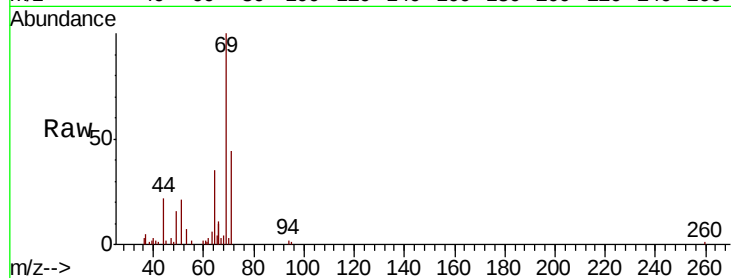
66 59.6 22.2 41.2#

Manual Integrations

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11/15/2019 3:06:49 PM



#9

Trichlorofluoromethane

Concen: 1.135 ug/L

RT: 3.12 min Scan# 227

Delta R.T. -0.01 min

Lab File: VY000653.D

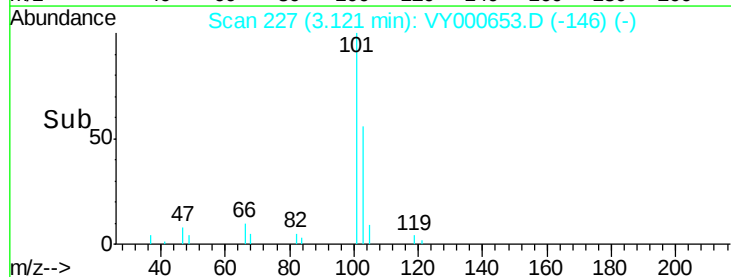
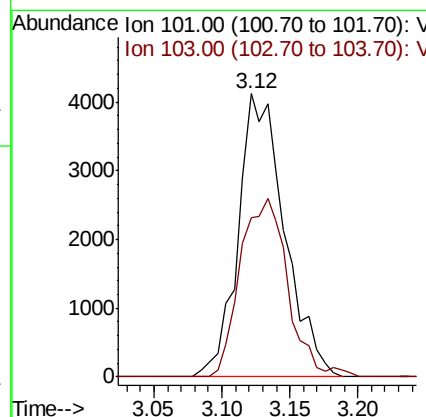
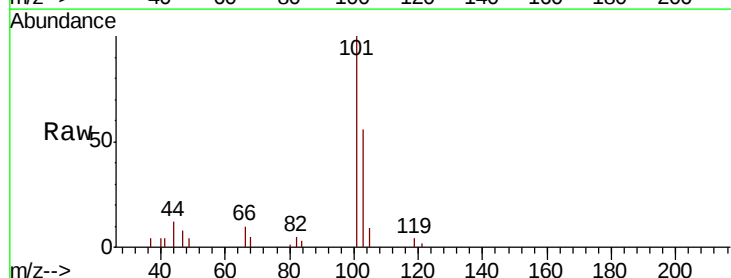
Acq: 12 Nov 2019 14:14

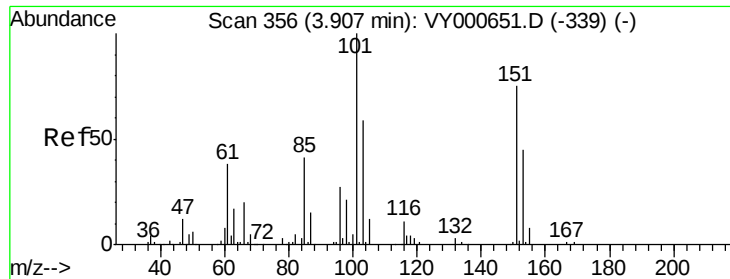
Tgt Ion: 101 Resp: 9822

Ion Ratio Lower Upper

101 100

103 63.3 45.8 85.0





#11

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

Concen: 1.227 ug/L m

RT: 3.91 min Scan# 356

Delta R.T. 0.00 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

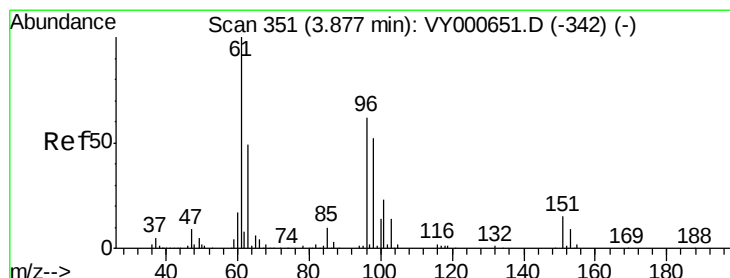
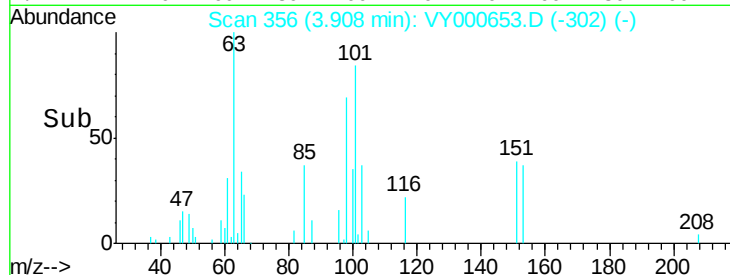
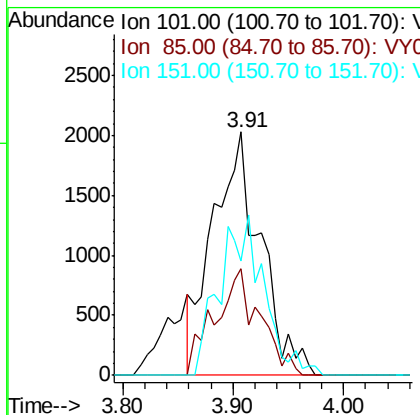
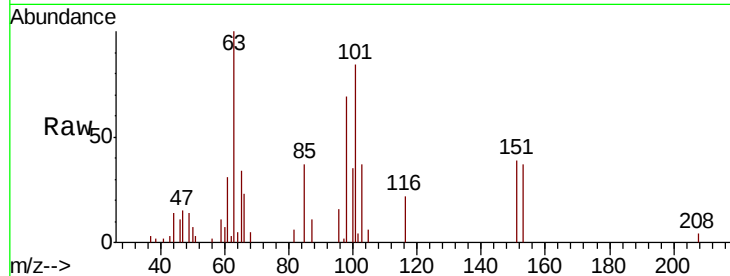
ClientSampleId :

MDL01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 6022  |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 18.4  | 35.3  | 52.9# |
| 151       | 25.8  | 61.9  | 92.9# |

Manual Integrations  
APPROVED

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11/15/2019 3:06:49 PM



#12

1,1-Dichloroethene

Concen: 1.292 ug/L

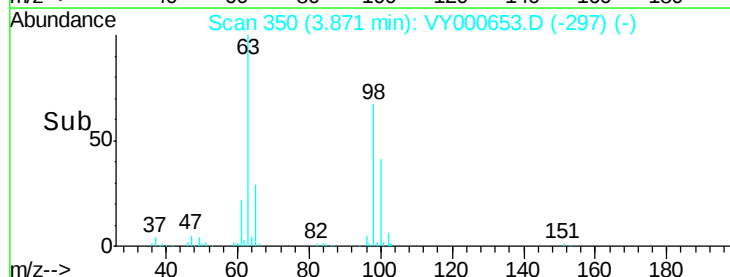
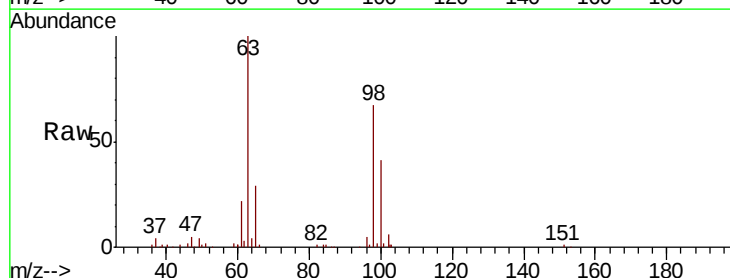
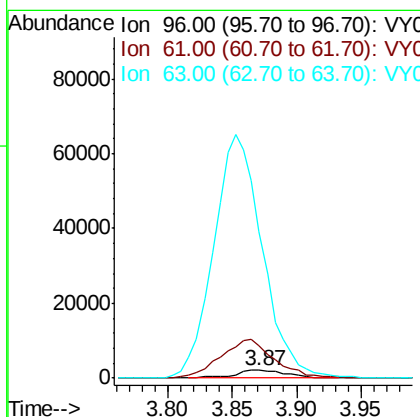
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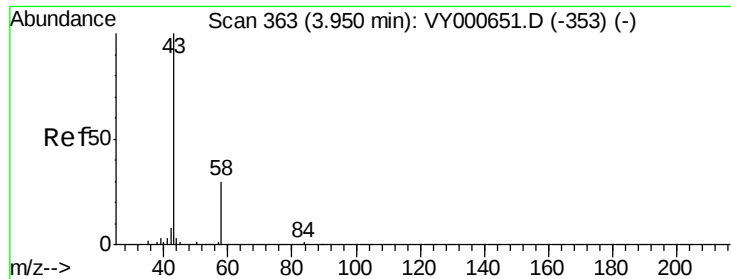
Delta R.T. -0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 6190   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 397.0  | 113.5 | 210.9# |
| 63        | 1827.3 | 94.3  | 175.1# |





#13

Acetone

Concen: 3.034 ug/L m

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 4781

Ion Ratio Lower Upper

43 100

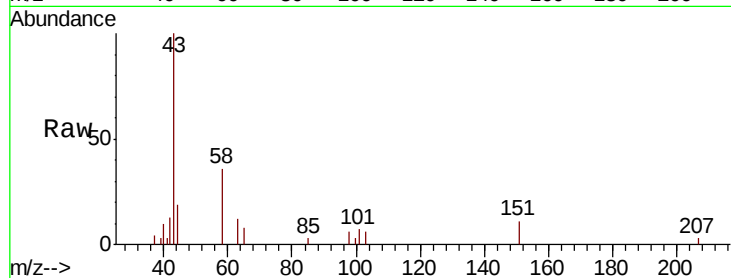
58 35.4 0.0 64.8

Manual Integrations

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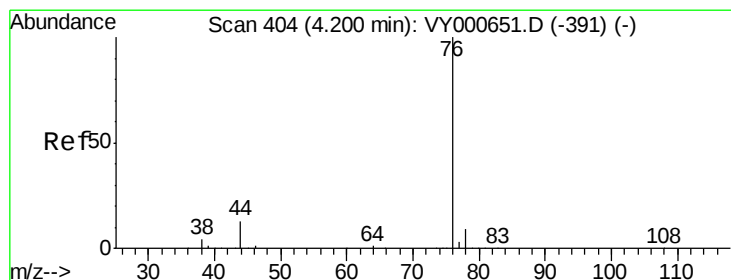
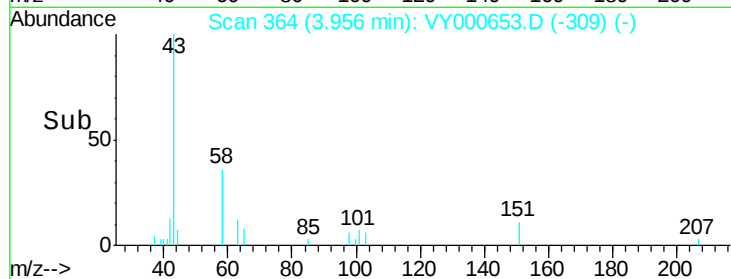
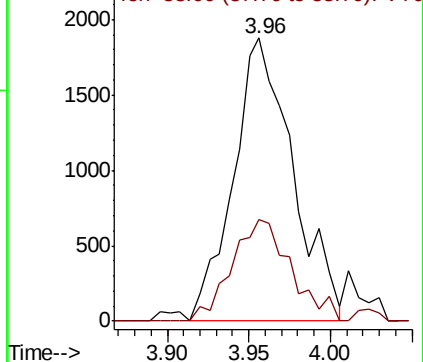
MMDadoda

11/15/2019 3:06:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 1.038 ug/L

RT: 4.19 min Scan# 403

Delta R.T. -0.01 min

Lab File: VY000653.D

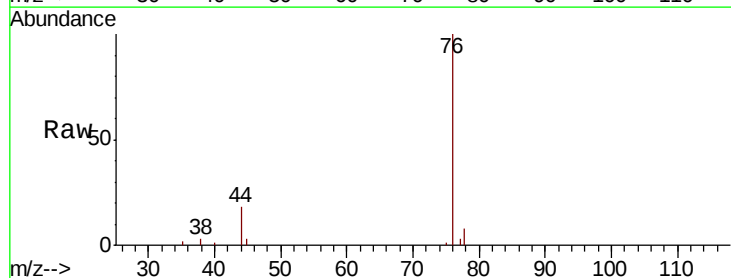
Acq: 12 Nov 2019 14:14

Tgt Ion: 76 Resp: 15354

Ion Ratio Lower Upper

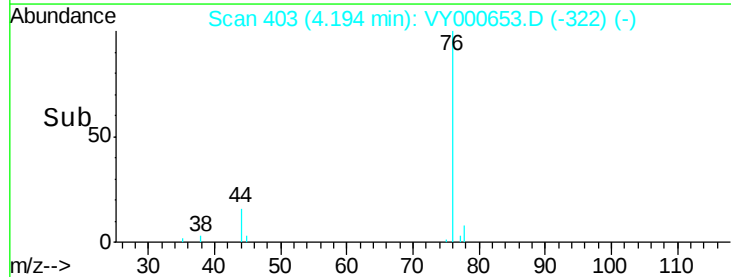
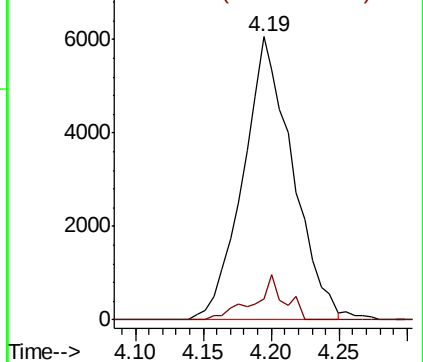
76 100

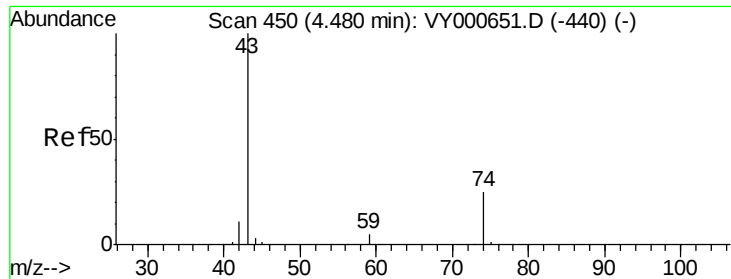
78 7.6 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0





#15

Methyl Acetate

Concen: 1.123 ug/L m

RT: 4.49 min Scan# 451

Delta R.T. 0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampled :

MDL01

Tot Ion: 43 Resp: 4055

Ion Ratio Lower Upper

43 100

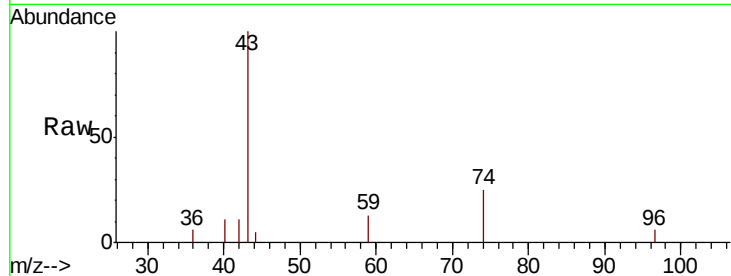
74 10.9 18.1 27.1#

Manual Integrations

APPROVED

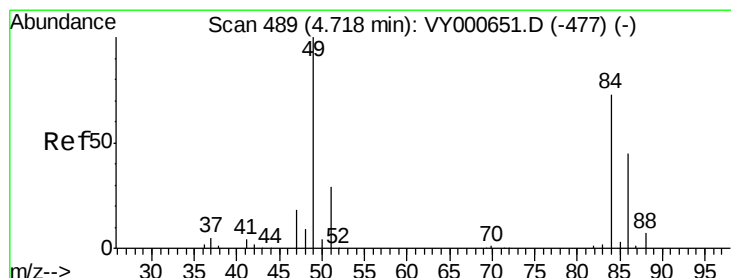
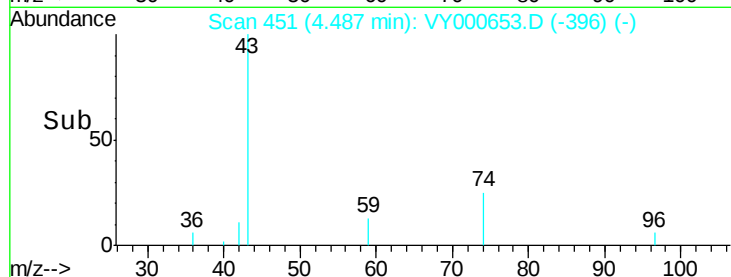
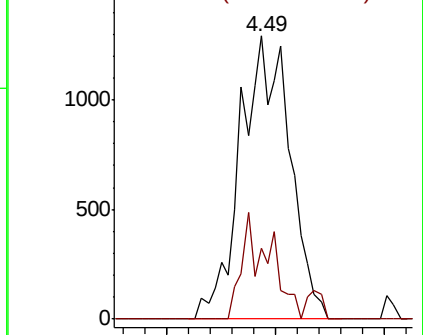
MMDadoda

11/15/2019 3:06:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0



#16

Methylene chloride

Concen: 1.746 ug/L m

RT: 4.72 min Scan# 490

Delta R.T. 0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

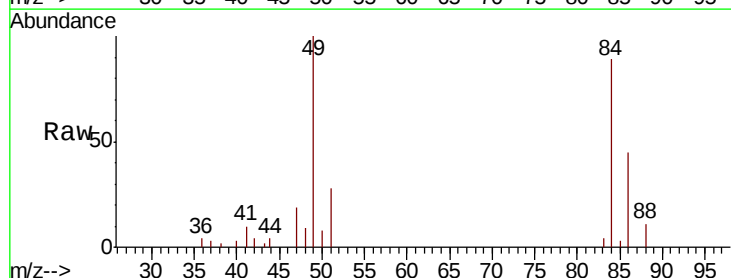
Tgt Ion: 84 Resp: 10654

Ion Ratio Lower Upper

84 100

49 112.4 88.8 165.0

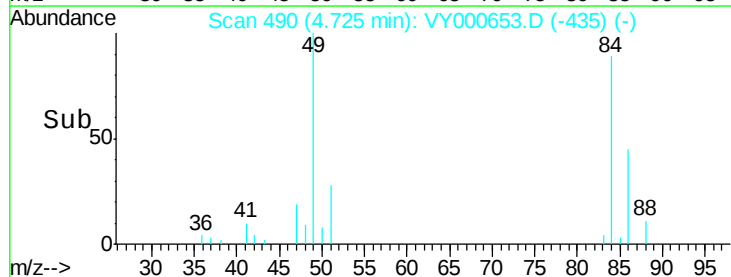
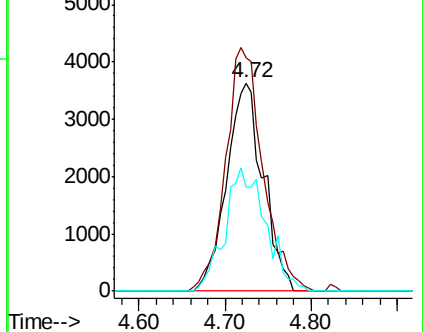
86 50.4 43.9 81.5

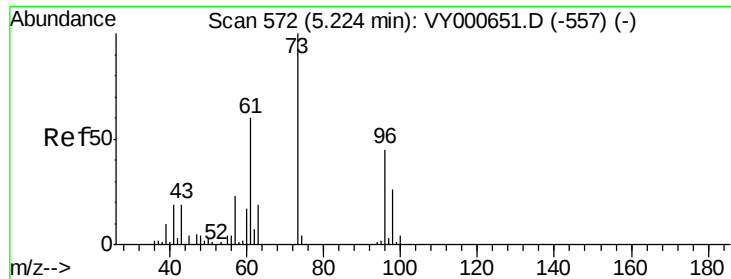


Abundance Ion 84.00 (83.70 to 84.70): VY0

Ion 49.00 (48.70 to 49.70): VY0

Ion 86.00 (85.70 to 86.70): VY0





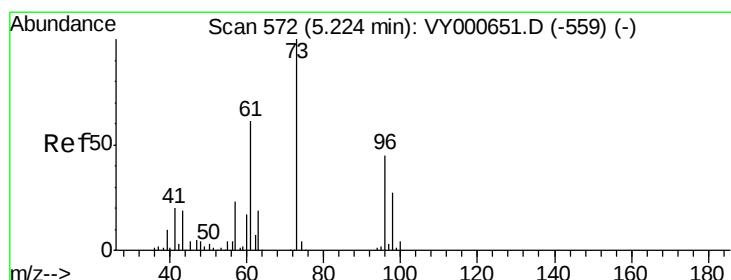
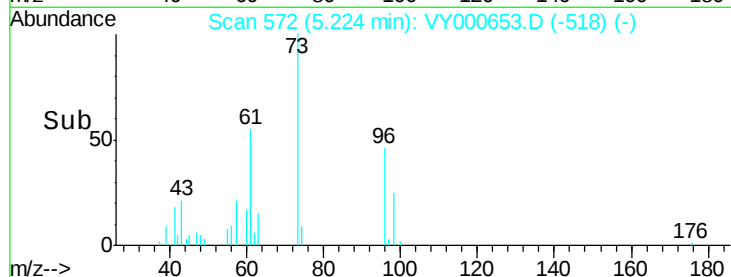
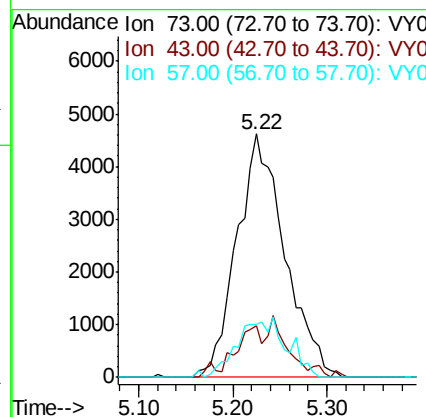
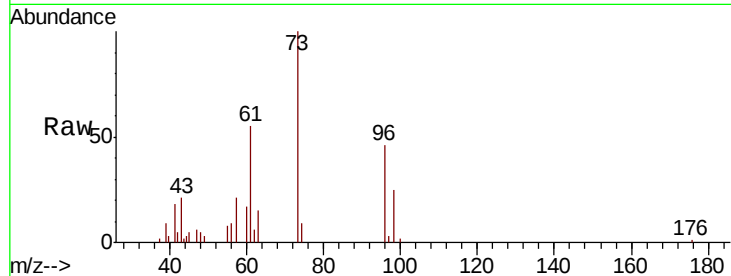
#17  
Methvl tert-butvl Ether  
Concen: 1.128 ug/L  
RT: 5.22 min Scan# 572  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 8.6   | 15.4  | 23.0# |
| 57      | 11.1  | 17.5  | 26.3# |

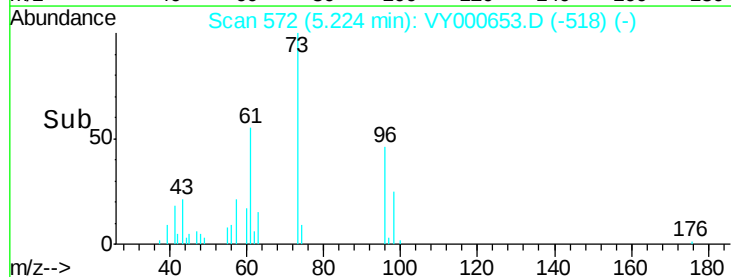
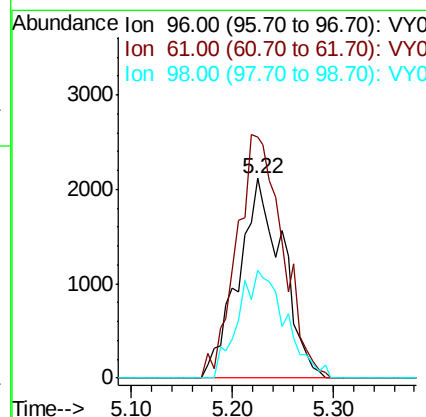
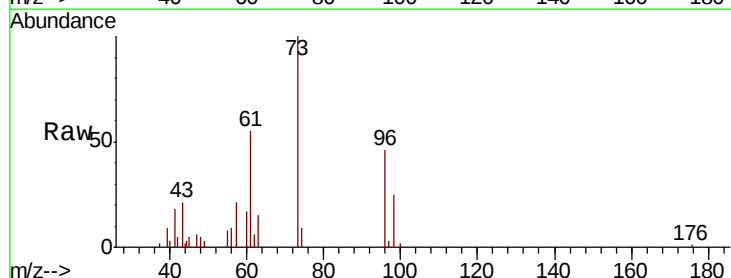
Manual Integrations  
APPROVED

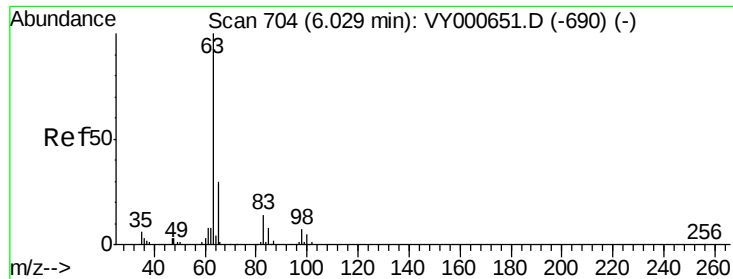
MMDadoda  
11/15/2019 3:06:49 PM



#18  
trans-1,2-Dichloroethene  
Concen: 1.209 ug/L m  
RT: 5.22 min Scan# 572  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 120.7 | 91.8  | 170.4 |
| 98      | 53.9  | 46.3  | 85.9  |





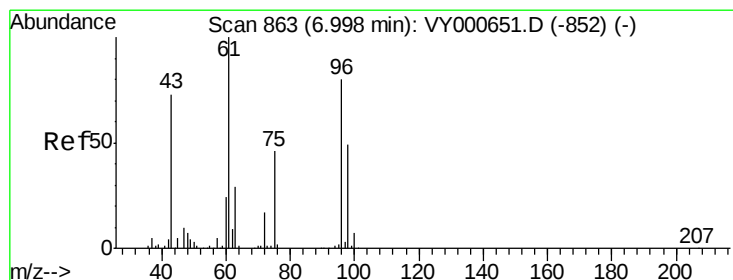
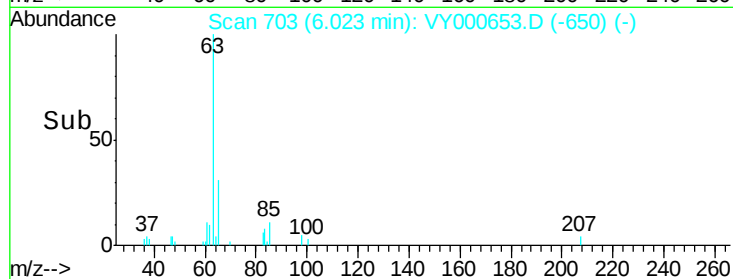
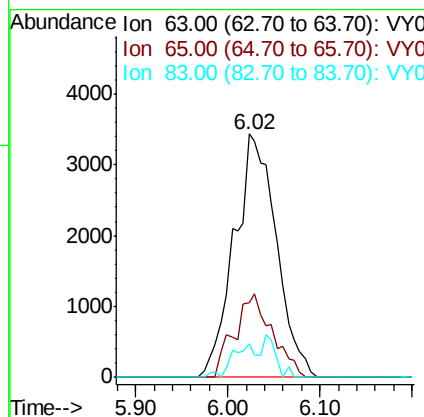
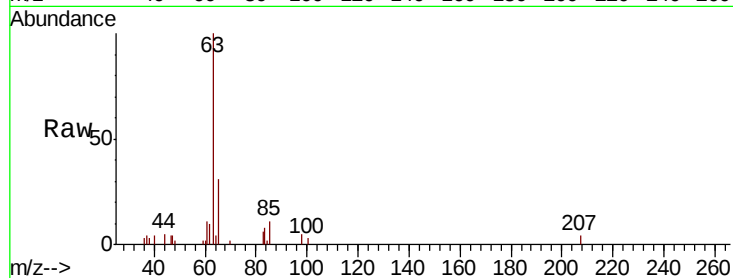
#19  
 1,1-Dichloroethane  
 Concen: 1.147 ug/L m  
 RT: 6.02 min Scan# 703  
 Delta R.T. -0.01 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 30.6  | 23.9  | 44.5  |
| 83      | 8.0   | 10.1  | 18.9  |

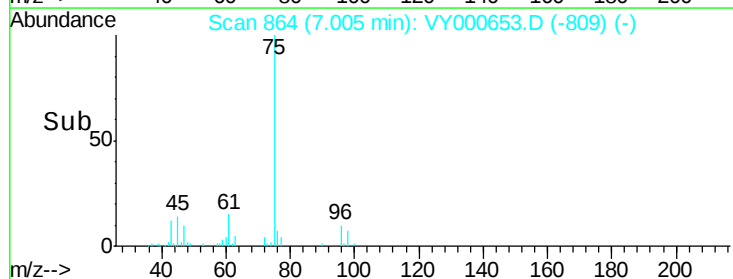
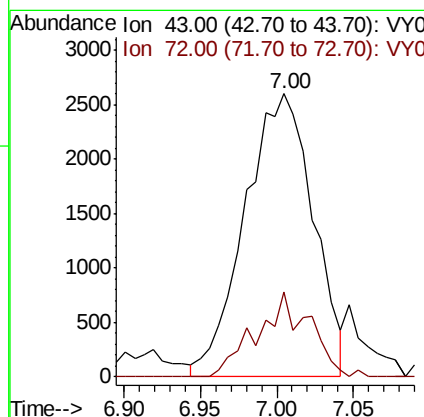
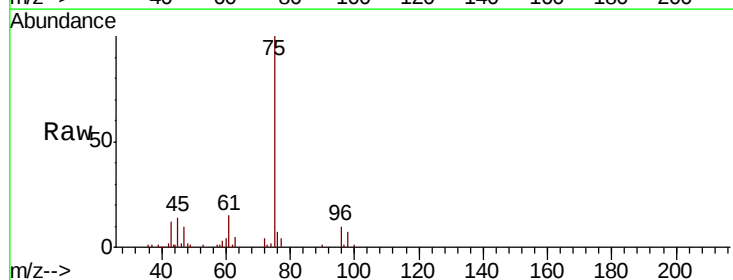
Manual Integrations  
 APPROVED

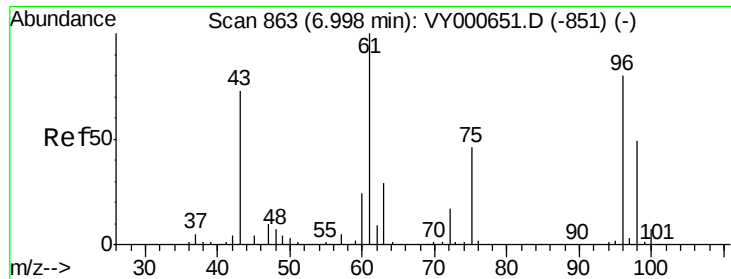
MMDadoda  
 11/15/2019 3:06:49 PM



#21  
 2-Butanone  
 Concen: 2.899 ug/L  
 RT: 7.00 min Scan# 864  
 Delta R.T. 0.01 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 15.5  | 12.6  | 37.8  |





#22

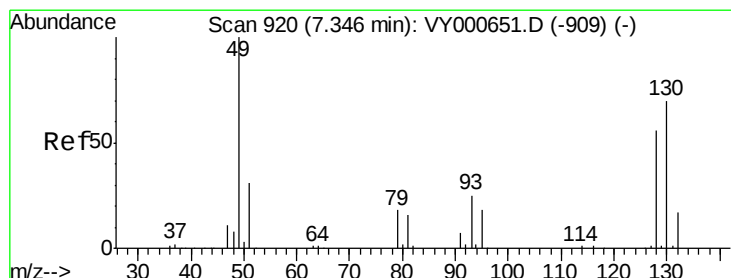
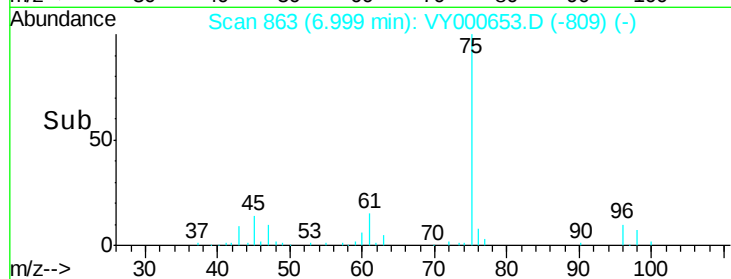
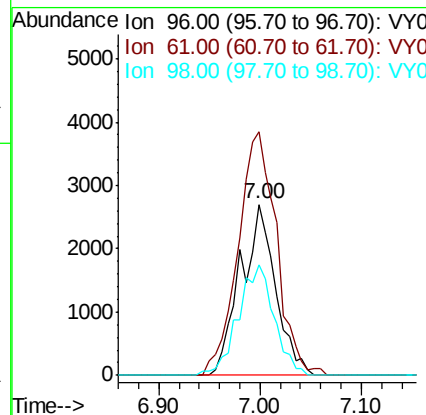
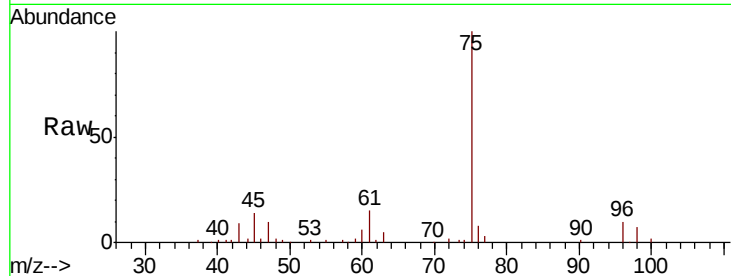
cis-1,2-Dichloroethene  
Concen: 1.099 ug/L m  
RT: 7.00 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 142.7 | 86.8  | 161.2 |
| 98      | 64.6  | 44.6  | 82.8  |

Manual Integrations  
APPROVED

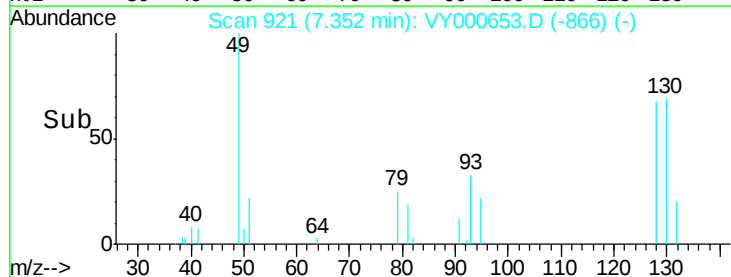
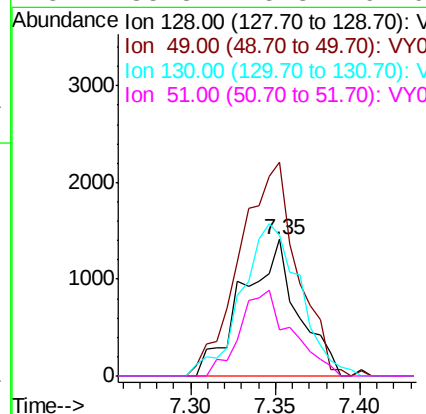
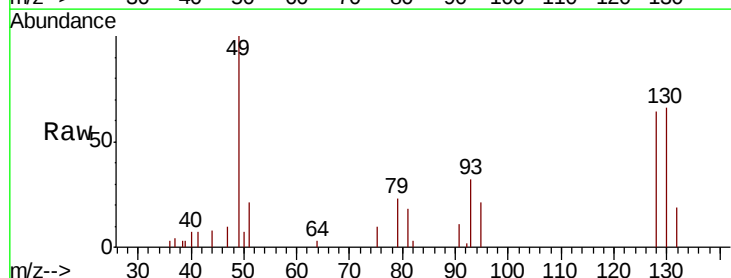
MMDadoda  
11/15/2019 3:06:49 PM

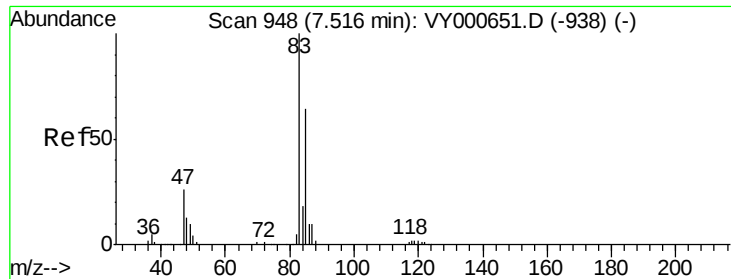


#23

Bromochloromethane  
Concen: 1.230 ug/L m  
RT: 7.35 min Scan# 921  
Delta R.T. 0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 156.2 | 131.5 | 244.3 |
| 130     | 103.0 | 96.7  | 179.5 |
| 51      | 33.3  | 45.3  | 67.9# |





#25

Chloroform

Concen: 1.844 ug/L

RT: 7.52 min Scan# 948

Delta R.T. 0.00 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampleId :

MDL01

Tot Ion: 83 Resp: 18713

Ion Ratio Lower Upper

83 100

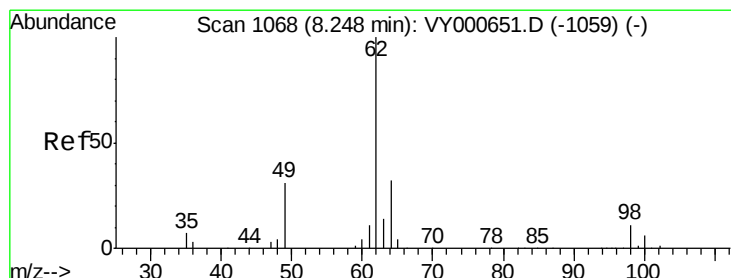
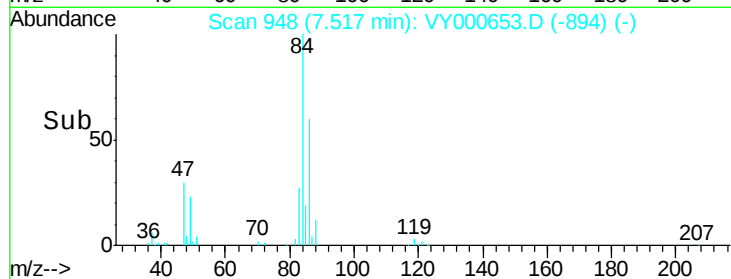
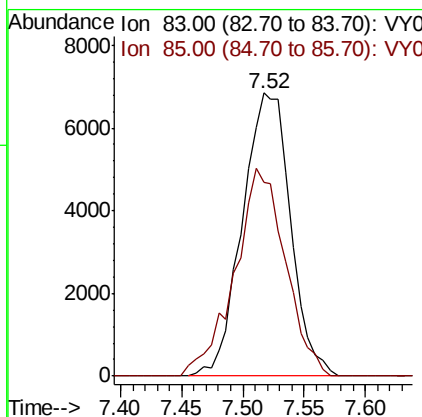
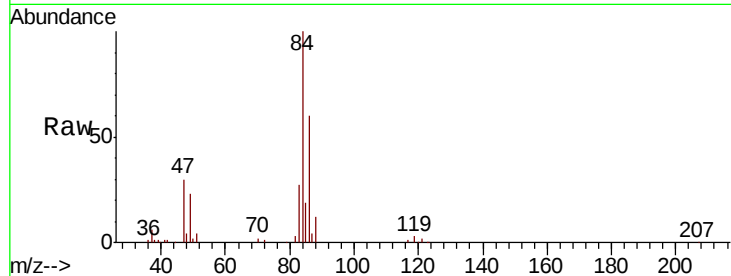
85 77.2 45.6 84.6

Manual Integrations

APPROVED

MMDadoda

11/15/2019 3:06:49 PM



#27

1,2-Dichloroethane

Concen: 1.322 ug/L

RT: 8.24 min Scan# 1067

Delta R.T. -0.01 min

Lab File: VY000653.D

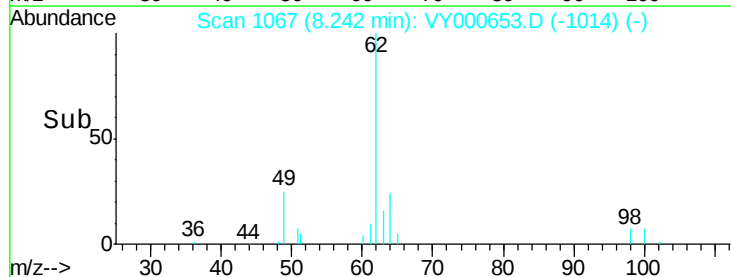
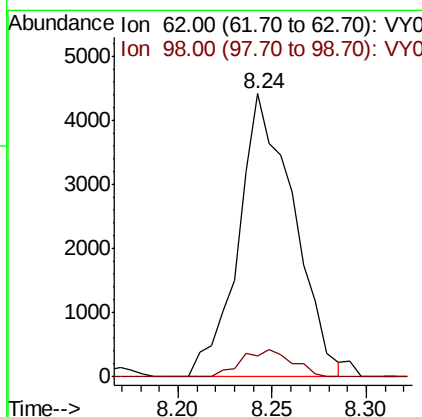
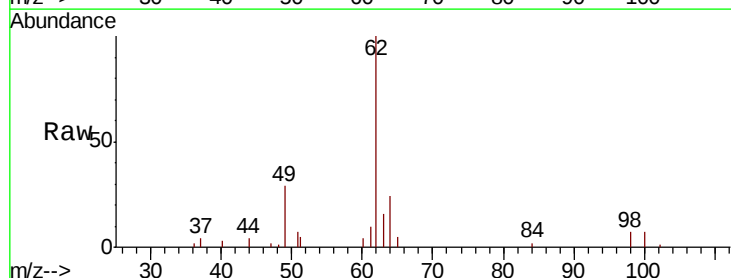
Acq: 12 Nov 2019 14:14

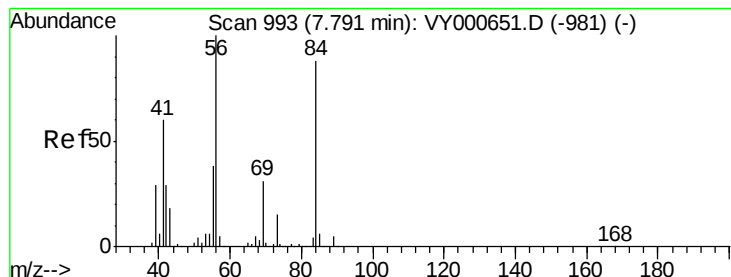
Tgt Ion: 62 Resp: 8968

Ion Ratio Lower Upper

62 100

98 7.3 7.5 11.3#





#30

Cyclohexane

Concen: 1.077 ug/L

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

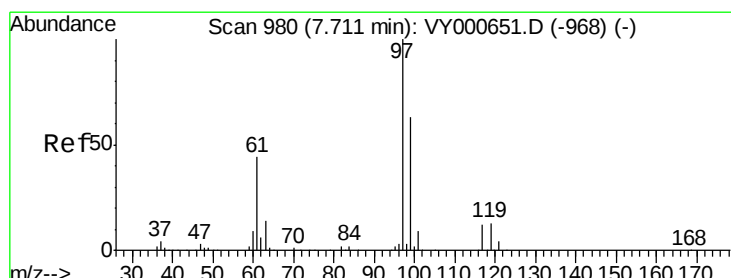
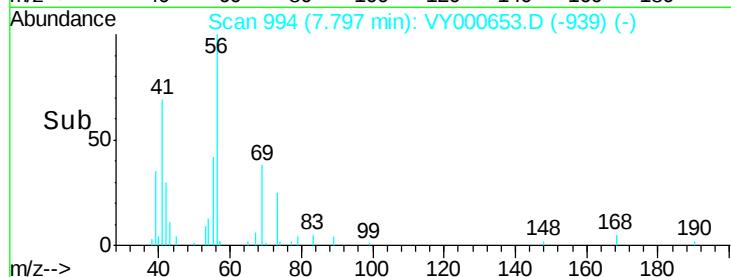
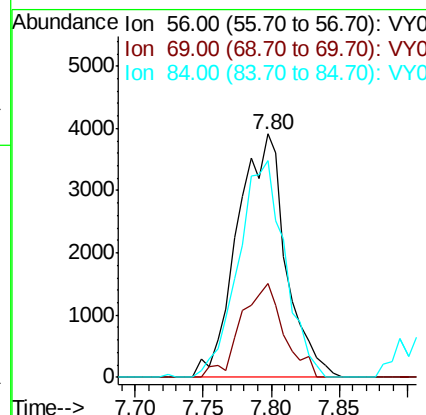
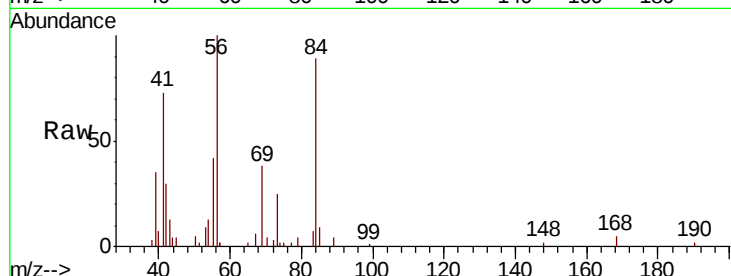
ClientSampleId :

MDL01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 56    | Resp: | 9788  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 31.9  | 24.1  | 36.1  |
| 84       | 85.0  | 70.2  | 105.4 |

Manual Integrations  
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11/15/2019 3:06:49 PM



#31

1,1,1-Trichloroethane

Concen: 1.132 ug/L

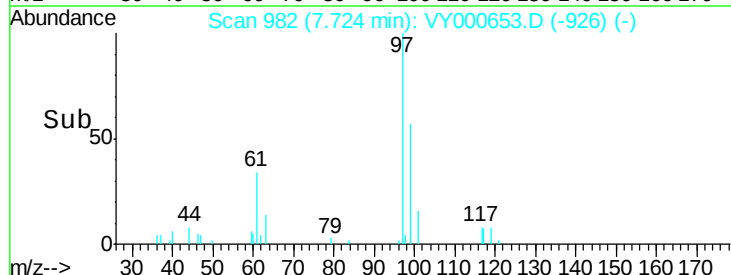
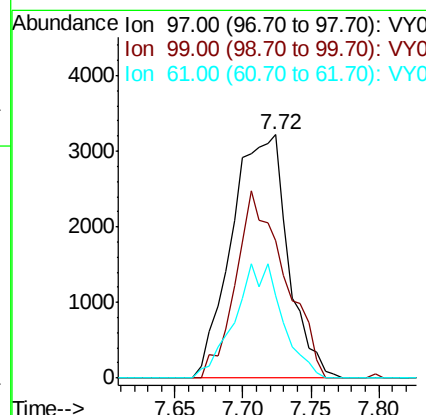
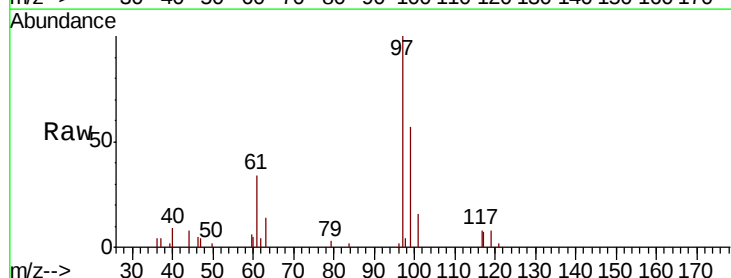
RT: 7.72 min Scan# 982

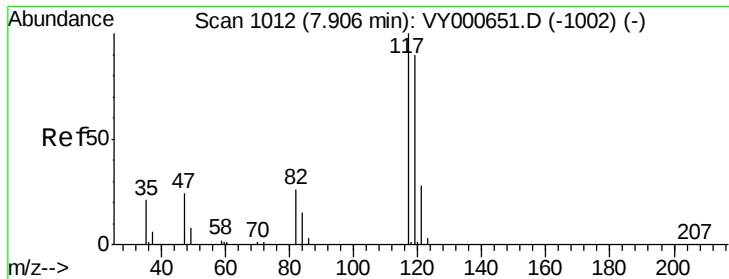
Delta R.T. 0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 9281  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 67.2  | 51.4  | 77.0  |
| 61       | 39.7  | 34.7  | 52.1  |





#32

Carbon tetrachloride

Concen: 1.141 ug/L

RT: 7.91 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampleId :

MDL01

Tot Ion:117 Resp: 8155

Ion Ratio Lower Upper

117 100

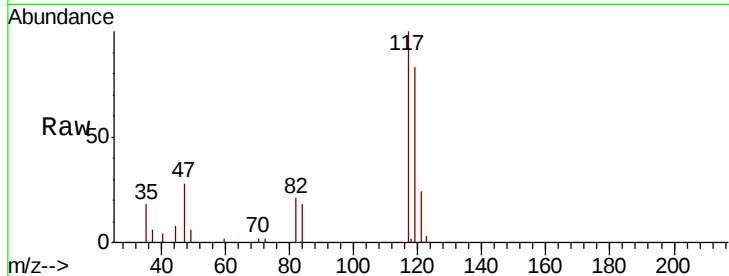
119 90.0 76.2 114.2

Manual Integrations

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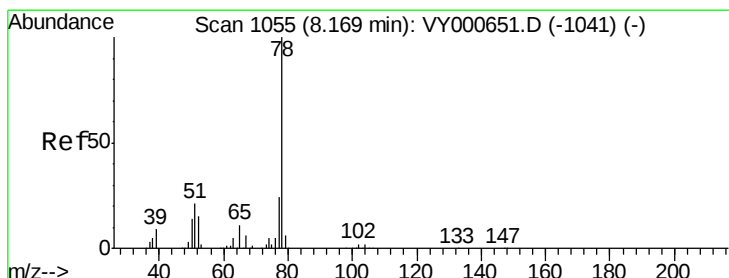
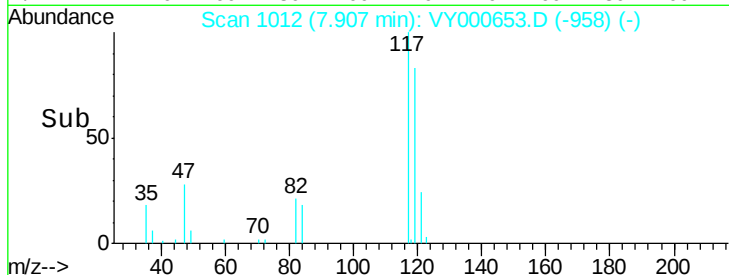
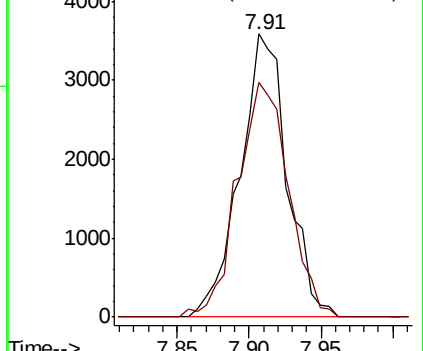
MMDadoda

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 1.238 ug/L

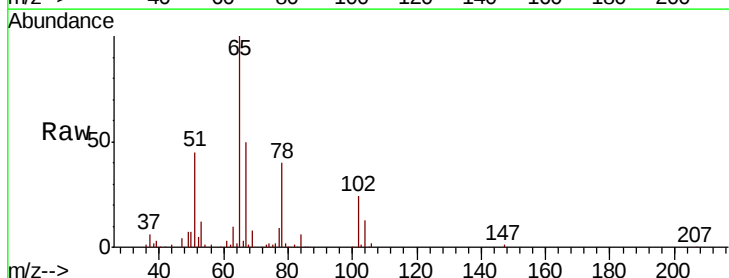
RT: 8.17 min Scan# 1055

Delta R.T. 0.00 min

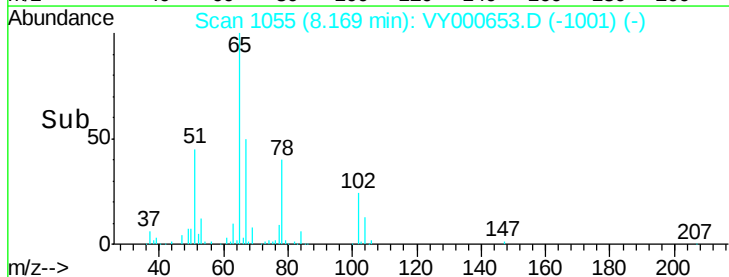
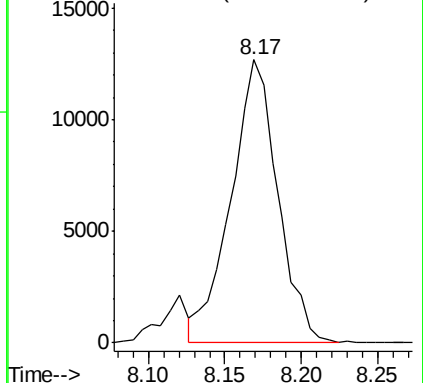
Lab File: VY000653.D

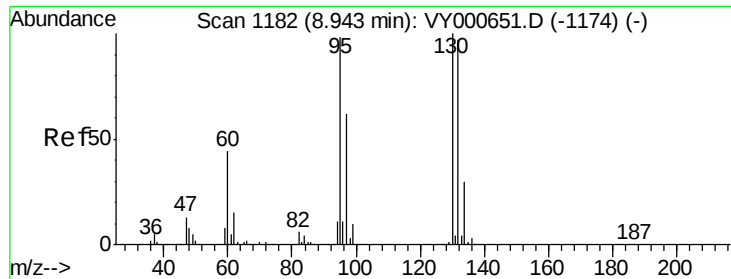
Acq: 12 Nov 2019 14:14

Tgt Ion: 78 Resp: 26939



Abundance Ion 78.00 (77.70 to 78.70): VY0





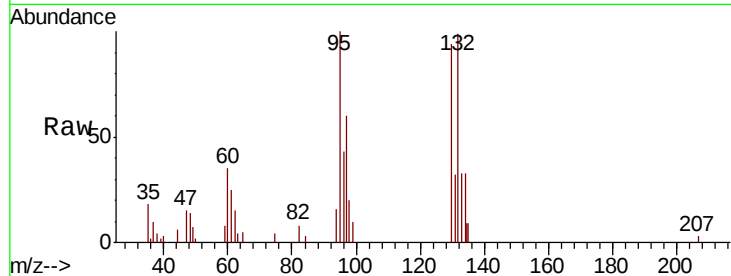
#35  
 Trichloroethene  
 Concen: 1.142 ug/L  
 RT: 8.95 min Scan# 1183  
 Delta R.T. 0.01 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

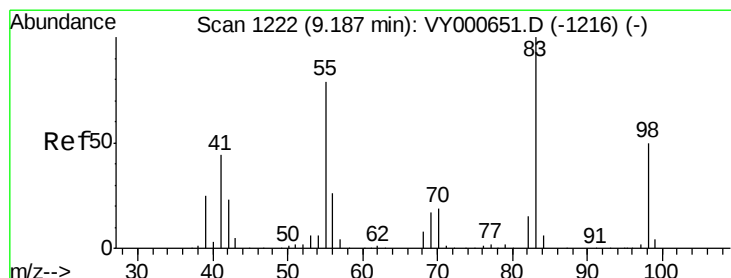
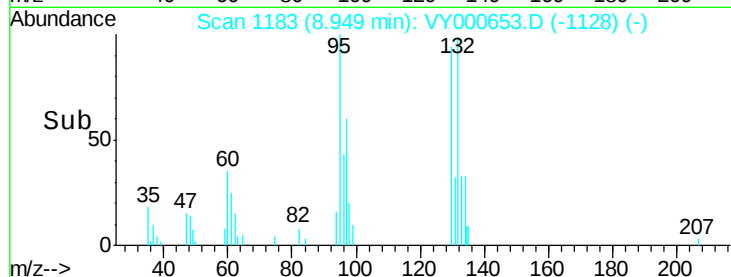
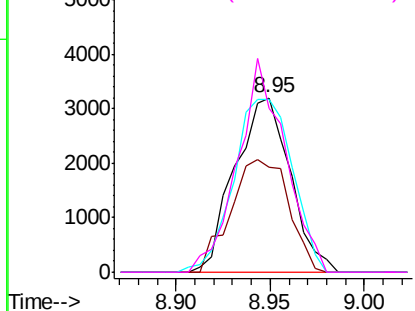
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 6520  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 67.3  | 44.4  | 82.4  |
| 132      | 105.5 | 66.8  | 124.0 |
| 130      | 104.8 | 70.9  | 131.7 |

Manual Integrations  
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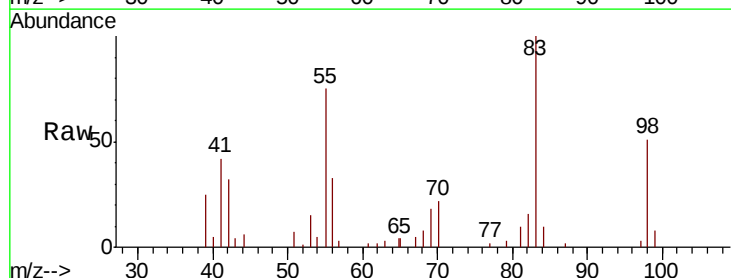


Abundance Ion 95.00 (94.70 to 95.70): VY0  
 Ion 97.00 (96.70 to 97.70): VY0  
 Ion 132.00 (131.70 to 132.70): VY0  
 Ion 130.00 (129.70 to 130.70): VY0

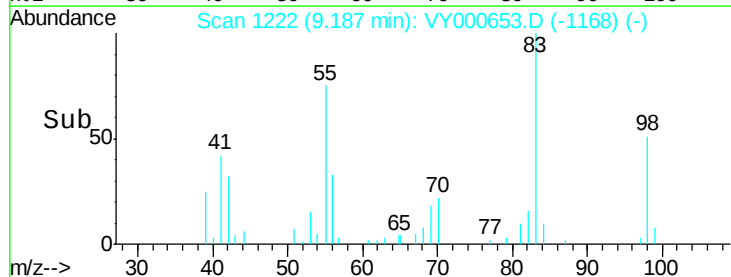
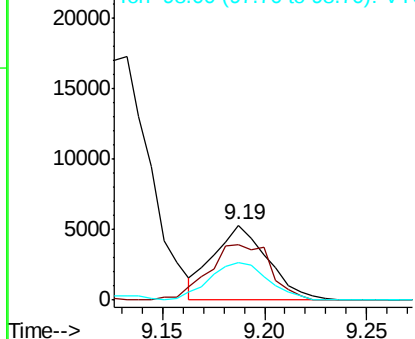


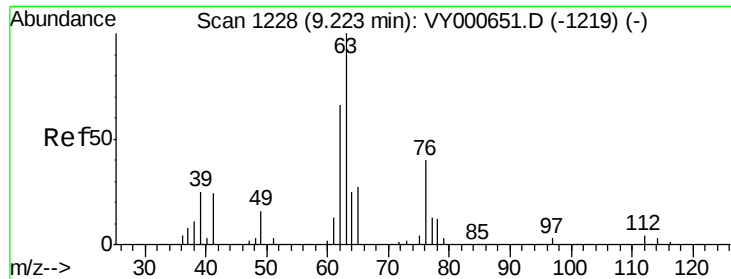
#36  
 Methylcyclohexane  
 Concen: 0.999 ug/L  
 RT: 9.19 min Scan# 1222  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 9754  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 62.6  | 60.0  | 90.0  |
| 98       | 55.1  | 40.2  | 60.2  |



Abundance Ion 83.00 (82.70 to 83.70): VY0  
 Ion 55.00 (54.70 to 55.70): VY0  
 Ion 98.00 (97.70 to 98.70): VY0





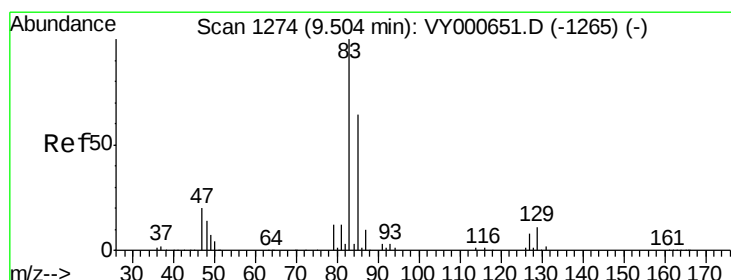
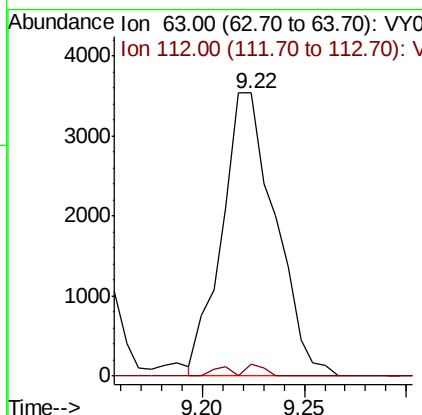
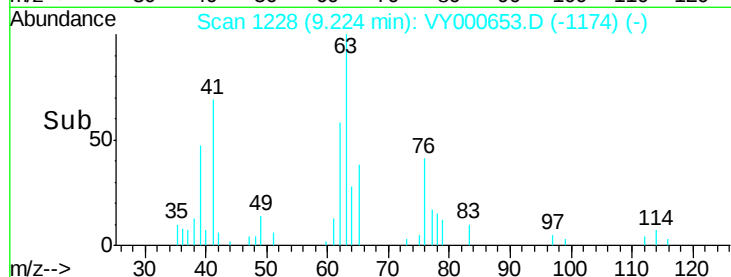
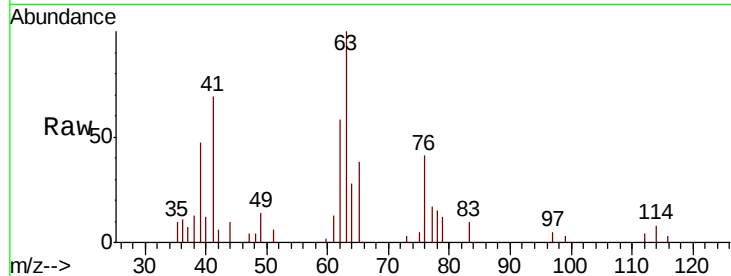
#40  
 1,2-Dichloropropane  
 Concen: 1.164 ug/L  
 RT: 9.22 min Scan# 1228  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

Tot Ion: 63 Resp: 6418  
 Ion Ratio Lower Upper  
 63 100  
 112 1.5 3.2 4.8#

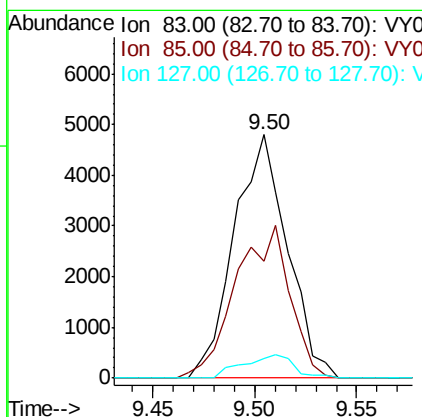
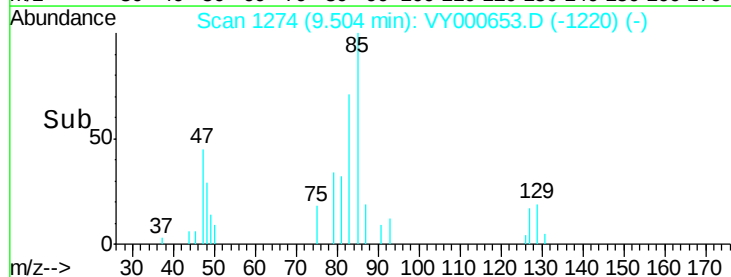
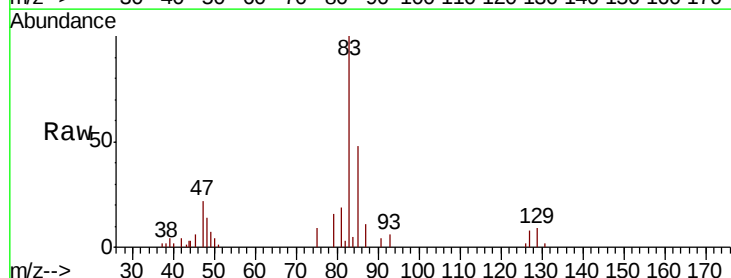
Manual Integrations  
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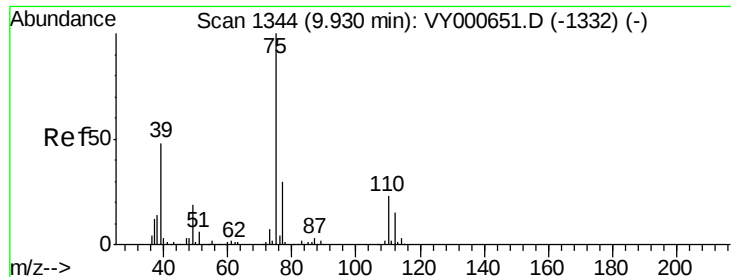
MMDadoda  
 11/15/2019 3:06:49 PM



#41  
 Bromodichloromethane  
 Concen: 1.226 ug/L  
 RT: 9.50 min Scan# 1274  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Tgt Ion: 83 Resp: 8700  
 Ion Ratio Lower Upper  
 83 100  
 85 48.1 46.1 85.5  
 127 8.3 6.5 9.7





#42

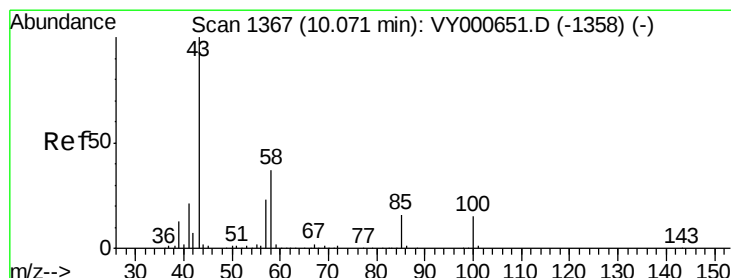
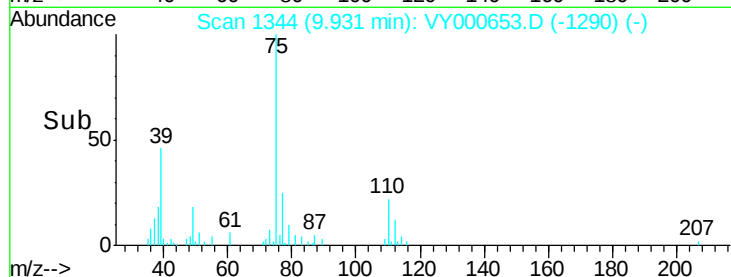
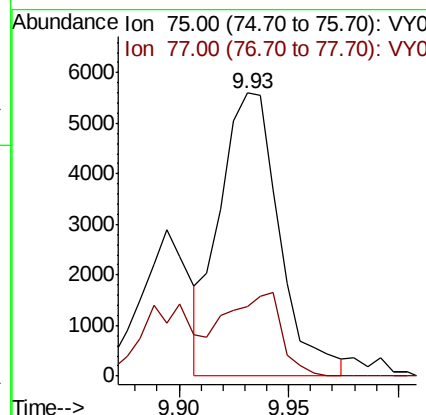
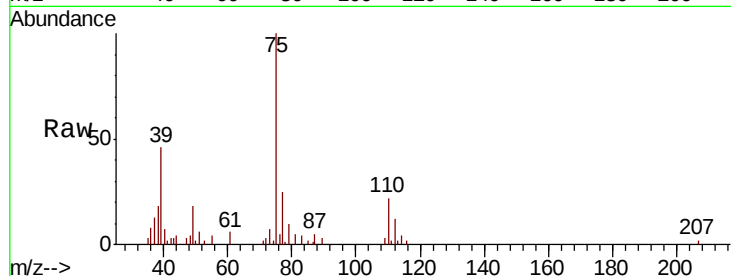
cis-1,3-Dichloropropene  
Concen: 1.198 ug/L m  
RT: 9.93 min Scan# 1344  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL01

Tot Ion: 75 Resp: 10648  
Ion Ratio Lower Upper  
75 100  
77 24.6 21.7 40.3

Manual Integrations  
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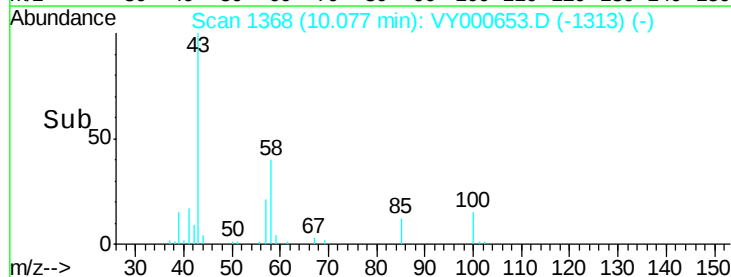
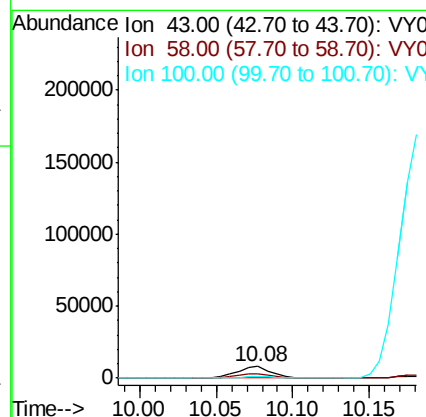
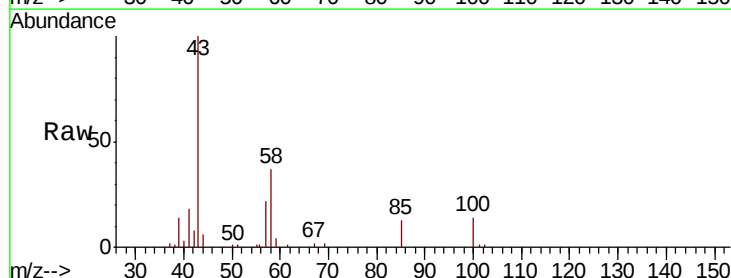
MMDadoda  
11/15/2019 3:06:49 PM

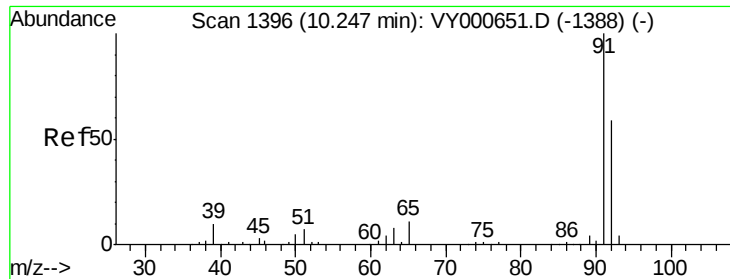


#43

4-Methyl-2-pentanone  
Concen: 2.465 ug/L  
RT: 10.08 min Scan# 1368  
Delta R.T. 0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Tgt Ion: 43 Resp: 13003  
Ion Ratio Lower Upper  
43 100  
58 39.2 30.6 45.8  
100 16.0 12.0 18.0





#44

Toluene

Concen: 1.109 ug/L

RT: 10.24 min Scan# 1395

Delta R.T. -0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 26090

Ion Ratio Lower Upper

91 100

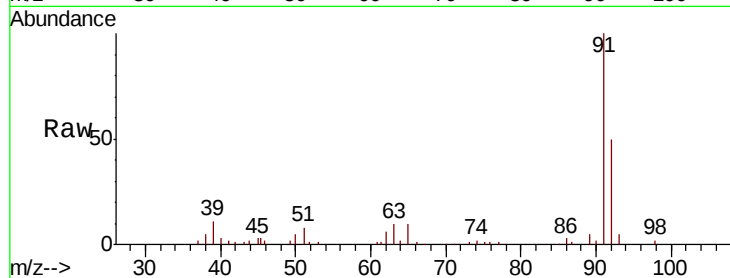
92 49.6 39.5 73.4

Manual Integrations

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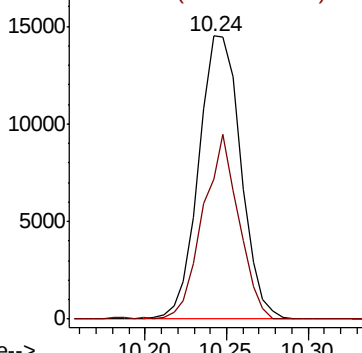
MMDadoda

11/15/2019 3:06:49 PM

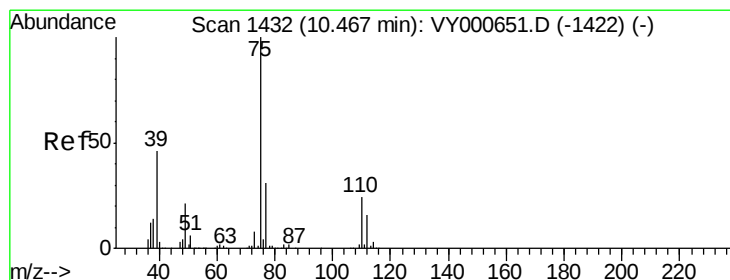
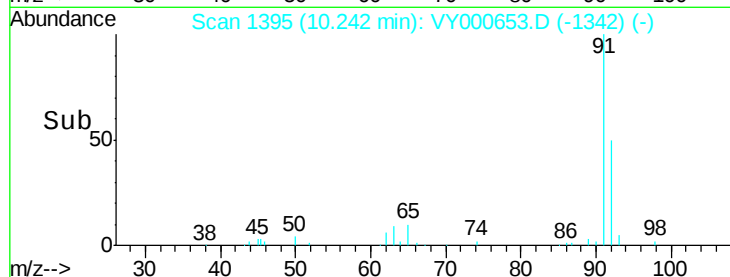


Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0



Time-->



#45

trans-1,3-Dichloropropene

Concen: 1.108 ug/L m

RT: 10.47 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VY000653.D

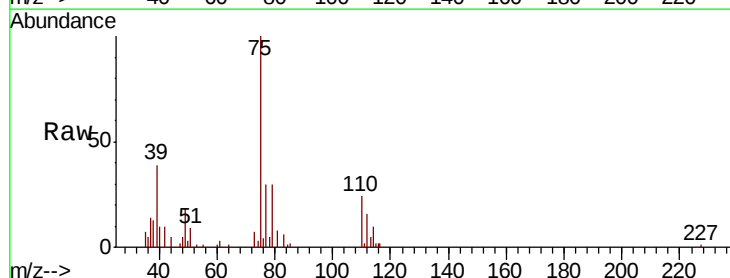
Acq: 12 Nov 2019 14:14

Tgt Ion: 75 Resp: 8457

Ion Ratio Lower Upper

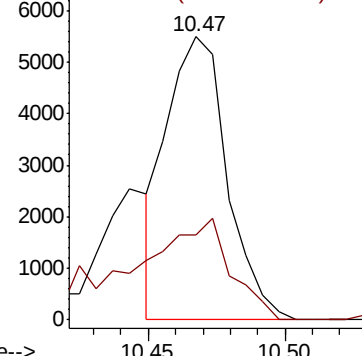
75 100

77 30.1 20.4 37.8

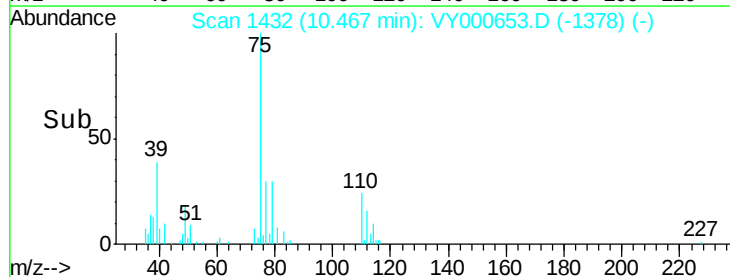


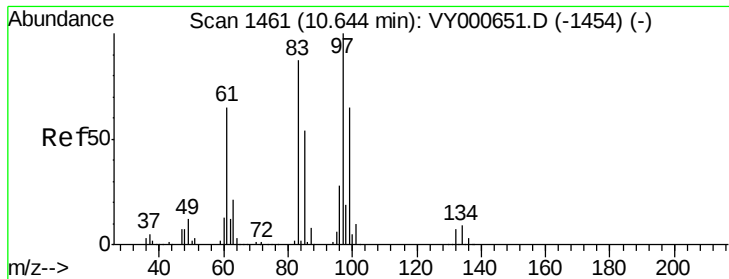
Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0



Time-->





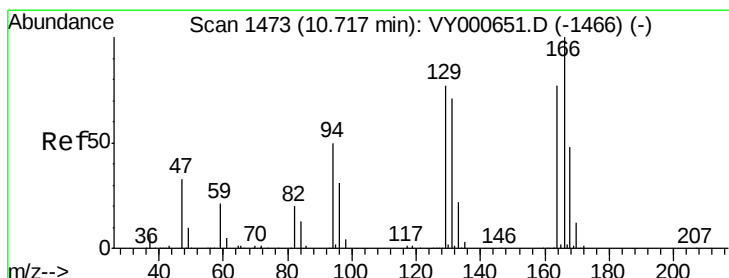
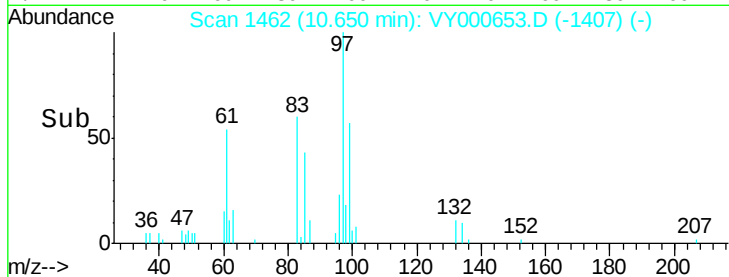
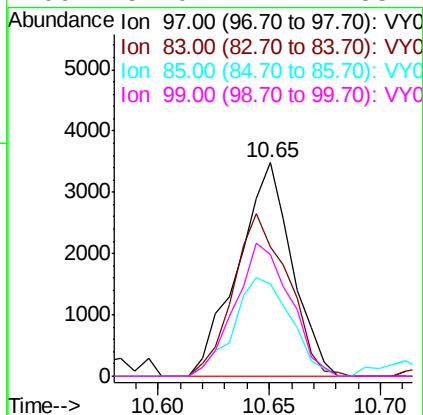
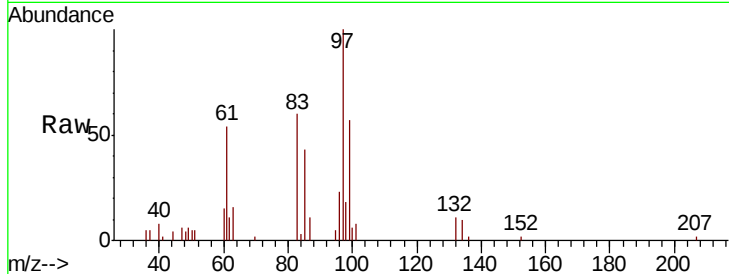
#46  
1,1,2-Trichloroethane  
Concen: 1.298 ug/L  
RT: 10.65 min Scan# 1462  
Delta R.T. 0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampled :  
MDL01

Tot Ion: 97 Resp: 5874  
Ion Ratio Lower Upper  
97 100  
83 60.5 58.7 109.1  
85 43.1 37.3 69.3  
99 57.0 44.7 83.1

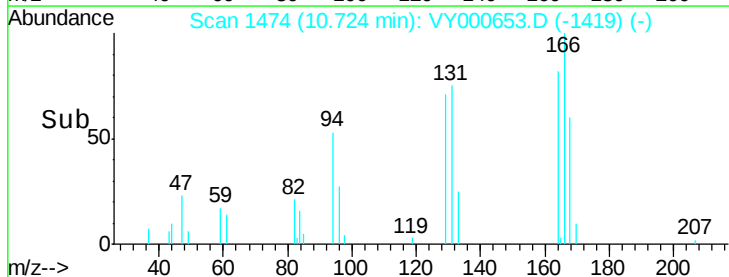
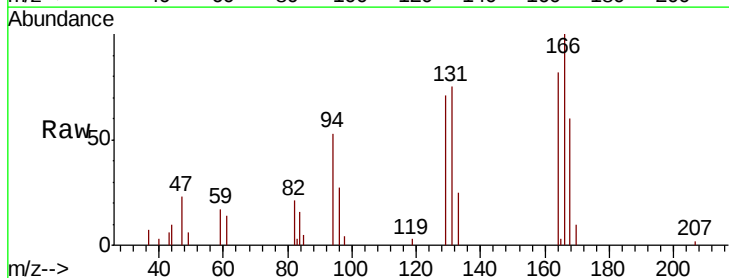
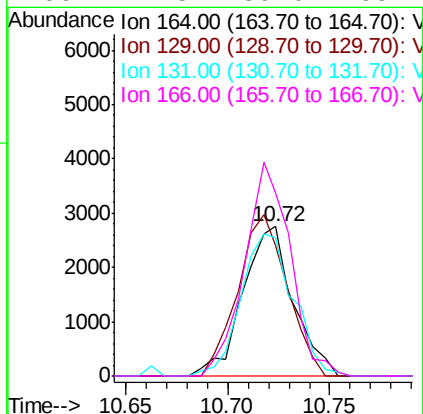
Manual Integrations  
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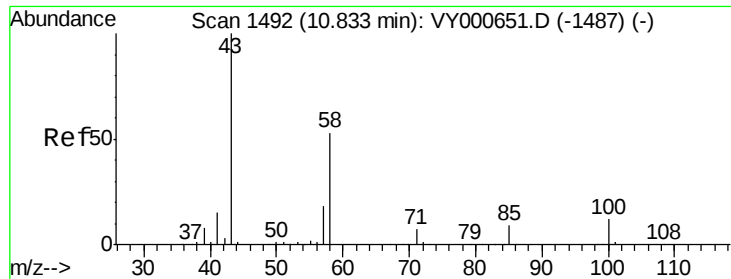
MMDadoda  
11/15/2019 3:06:49 PM



#47  
Tetrachloroethene  
Concen: 1.110 ug/L  
RT: 10.72 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Tgt Ion: 164 Resp: 4728  
Ion Ratio Lower Upper  
164 100  
129 87.2 69.6 129.2  
131 92.1 66.8 124.2  
166 122.5 89.0 165.2





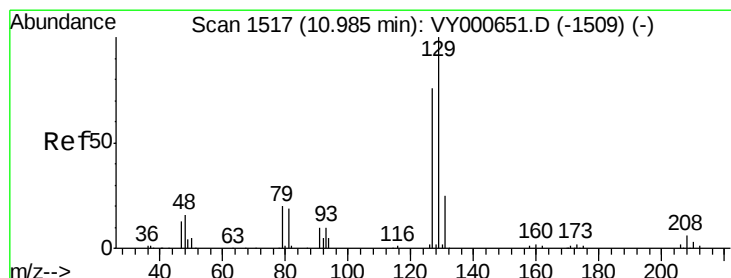
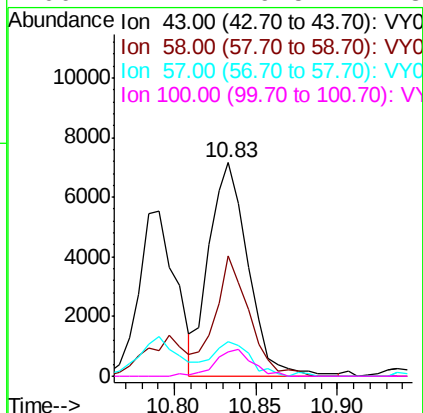
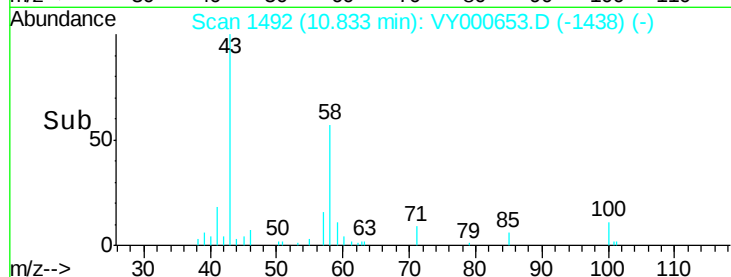
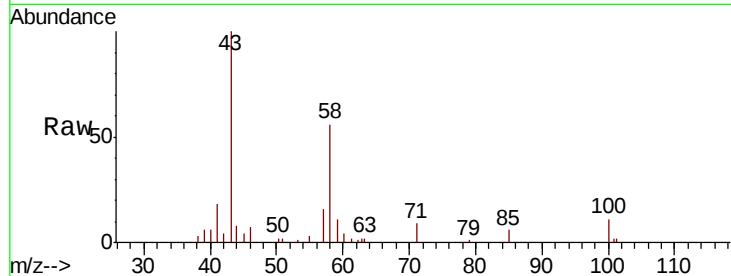
#49  
2-Hexanone  
Concen: 2.903 ug/L  
RT: 10.83 min Scan# 1492  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 48.5  | 44.1  | 66.1  |
| 57      | 14.3  | 13.9  | 20.9  |
| 100     | 12.1  | 9.5   | 14.3  |

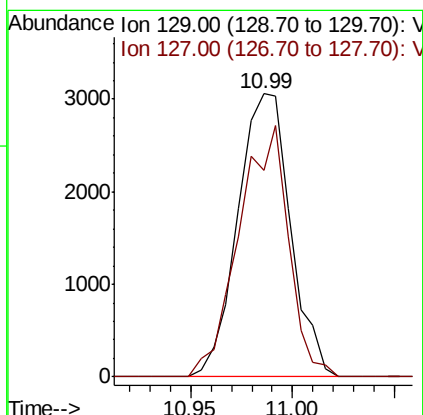
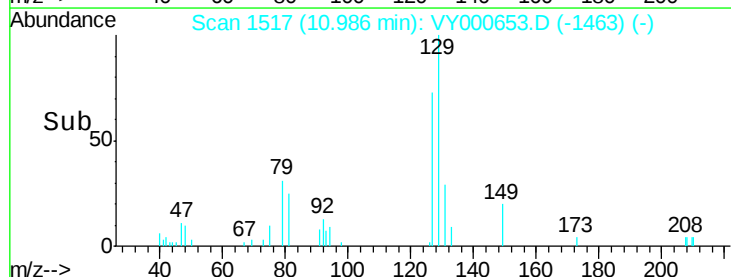
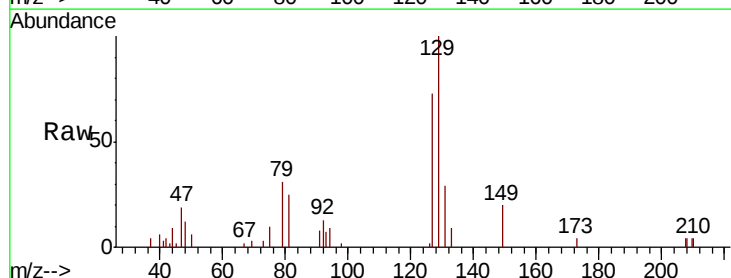
Manual Integrations  
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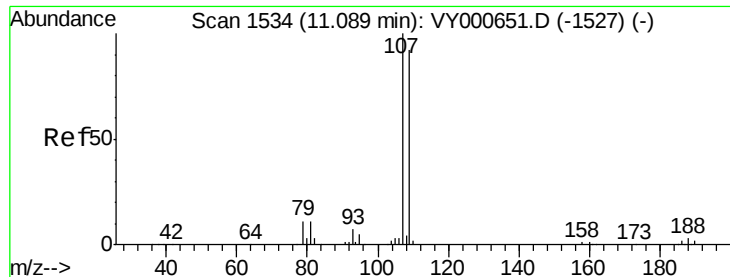
MMDadoda  
11/15/2019 3:06:49 PM



#50  
Dibromochloromethane  
Concen: 1.078 ug/L  
RT: 10.99 min Scan# 1517  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 73.0  | 57.9  | 107.5 |





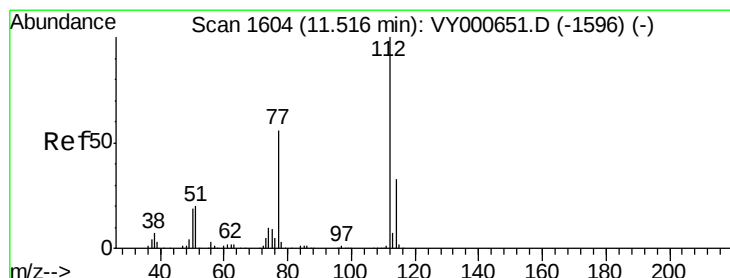
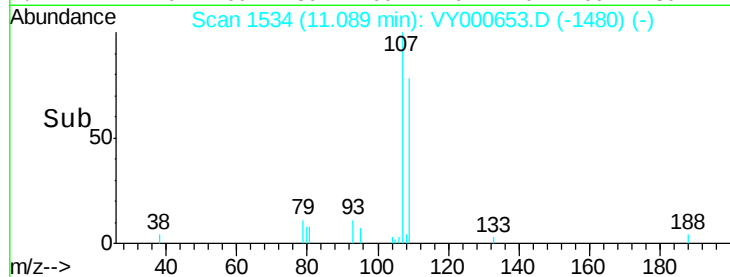
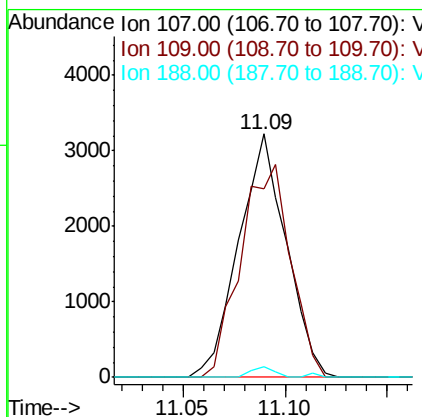
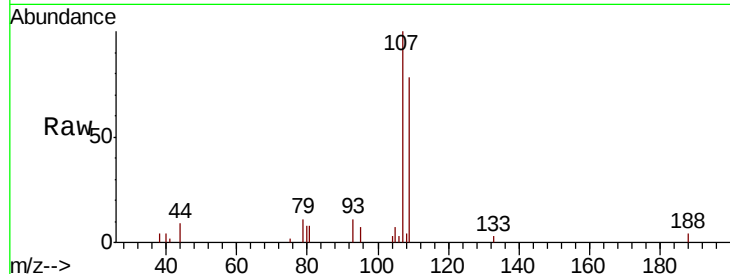
#51  
 1,2-Dibromoethane  
 Concen: 1.185 ug/L  
 RT: 11.09 min Scan# 1534  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 77.7  | 65.5  | 121.6 |
| 188     | 4.1   | 2.7   | 4.1#  |

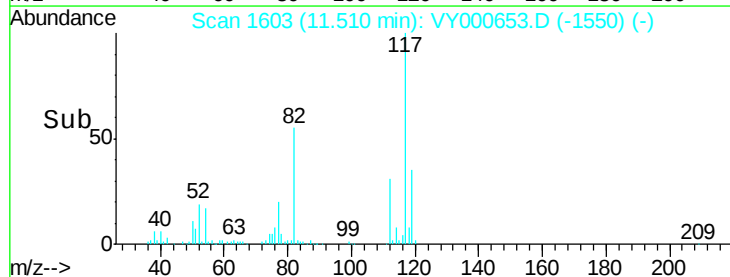
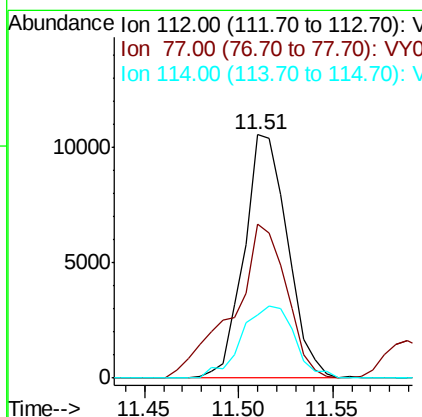
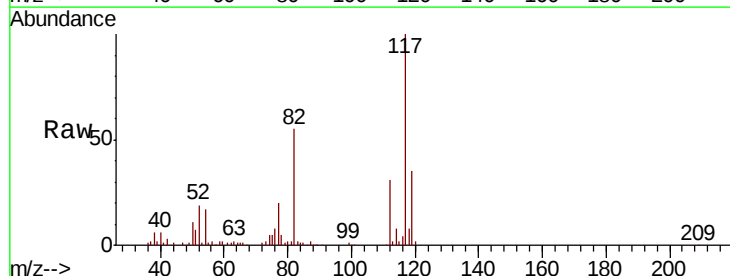
Manual Integrations  
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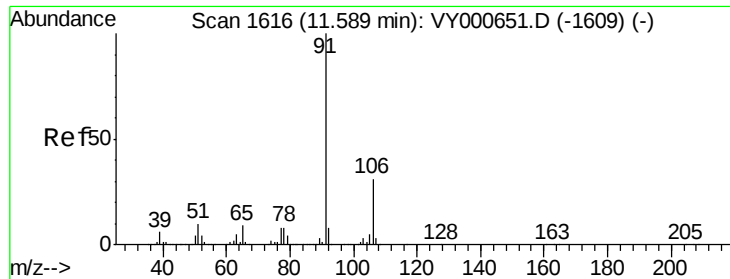
MMDadoda  
 11/15/2019 3:06:49 PM



#52  
 Chlorobenzene  
 Concen: 1.132 ug/L  
 RT: 11.51 min Scan# 1603  
 Delta R.T. -0.01 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 63.2  | 47.4  | 71.0  |
| 114     | 26.2  | 23.0  | 42.6  |





#53

Ethylbenzene

Concen: 1.085 ug/L

RT: 11.60 min Scan# 1617

Delta R.T. 0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 28886

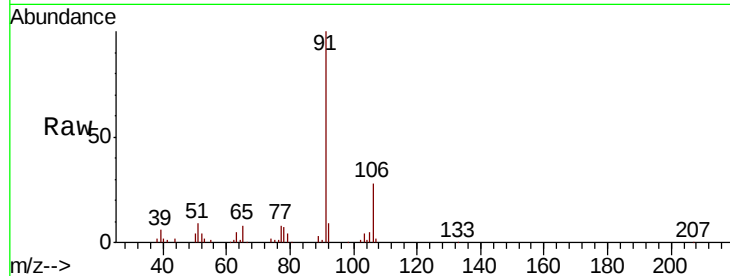
Ion Ratio Lower Upper

91 100

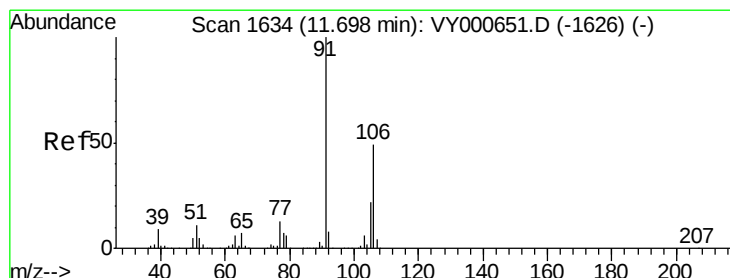
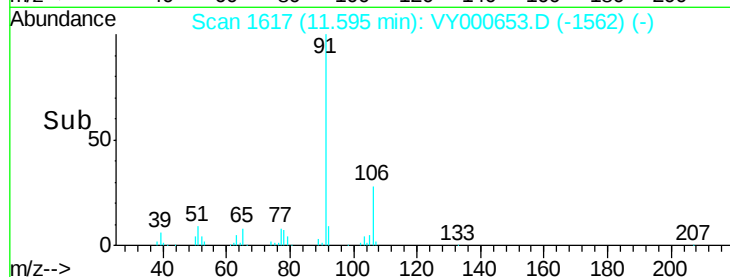
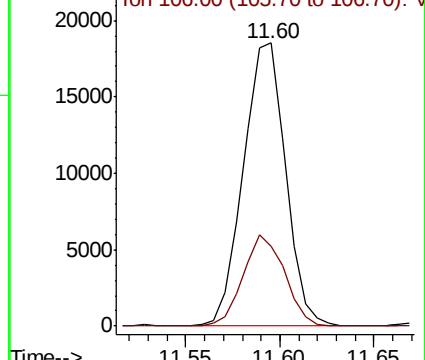
106 28.2 20.9 38.7

Manual Integrations  
APPROVED

MMDadoda  
11/15/2019 3:06:49 PM



Abundance Ion 91.00 (90.70 to 91.70): VY000653.D (-1609) (-)



#54

m,p-Xylene

Concen: 1.055 ug/L

RT: 11.70 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VY000653.D

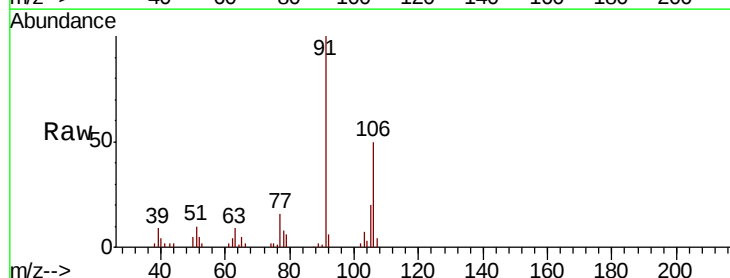
Acq: 12 Nov 2019 14:14

Tgt Ion: 106 Resp: 10624

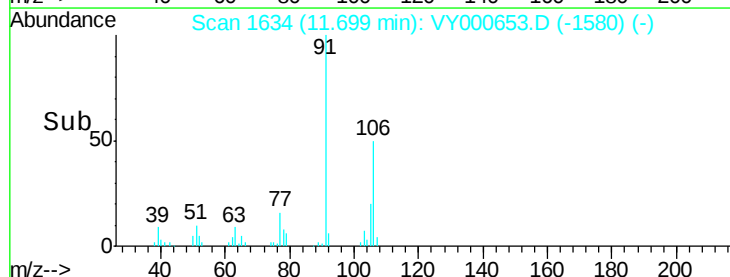
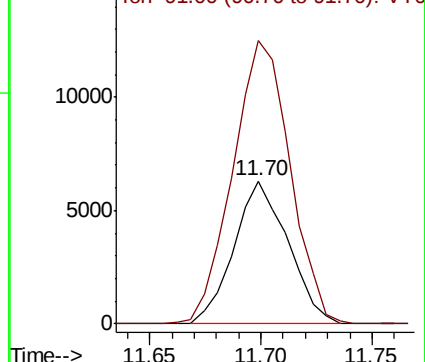
Ion Ratio Lower Upper

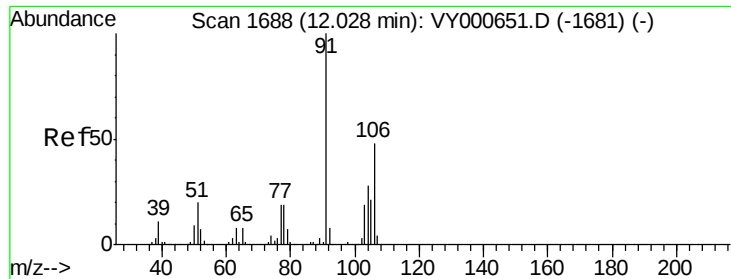
106 100

91 198.1 137.4 255.2



Abundance Ion 106.00 (105.70 to 106.70): VY000653.D (-1626) (-)





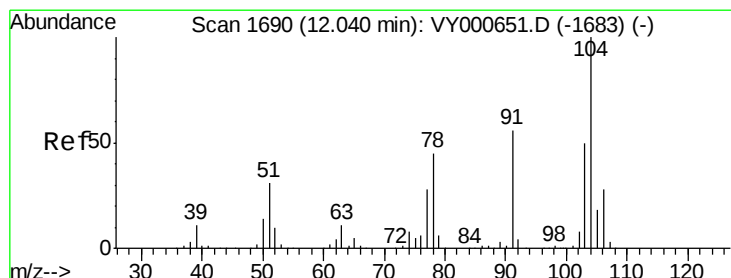
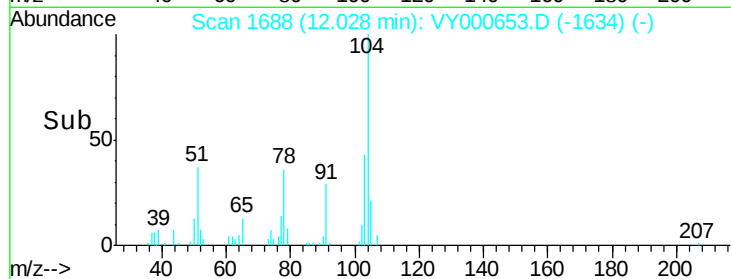
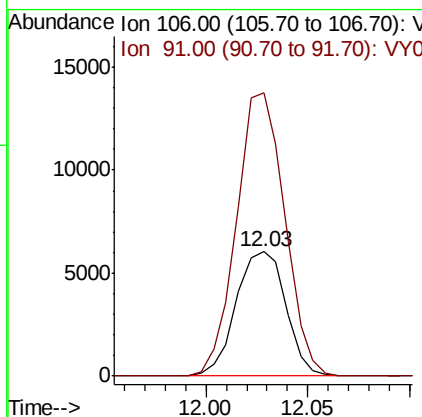
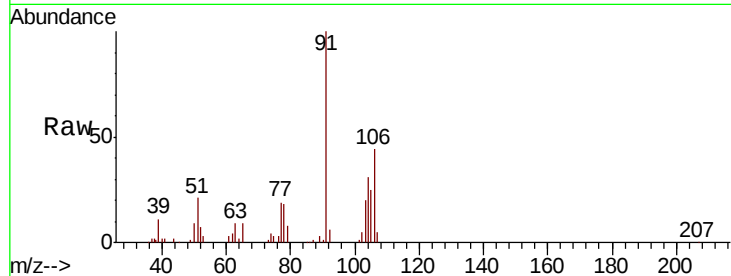
#55  
o-xylene  
Concen: 1.036 ug/L  
RT: 12.03 min Scan# 1688  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampled :  
MDL01

Tot Ion:106 Resp: 10239  
Ion Ratio Lower Upper  
106 100  
91 227.3 147.8 274.6

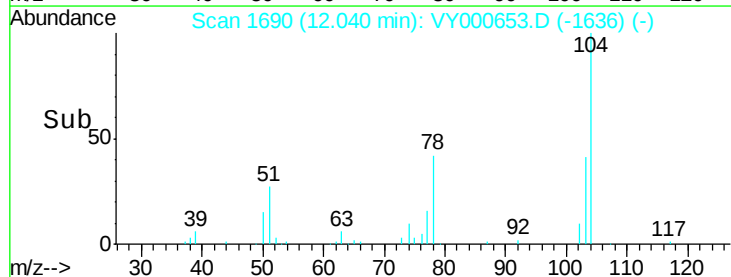
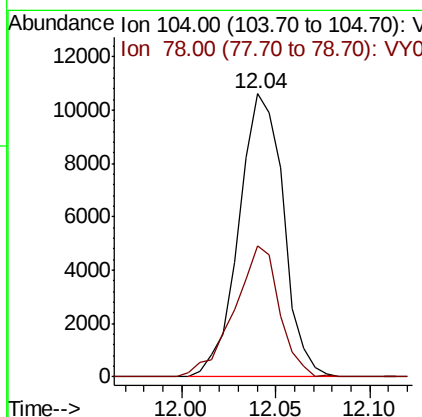
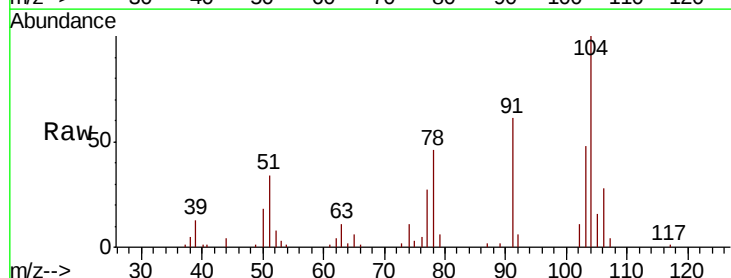
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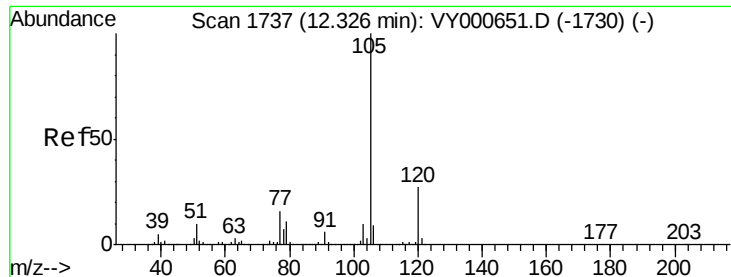
MMDadoda  
11/15/2019 3:06:49 PM



#56  
Styrene  
Concen: 1.061 ug/L  
RT: 12.04 min Scan# 1690  
Delta R.T. 0.00 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Tgt Ion:104 Resp: 17422  
Ion Ratio Lower Upper  
104 100  
78 46.4 31.5 58.5





#57

Isopropylbenzene

Concen: 1.047 ug/L

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

Instrument :

MSVOA\_Y

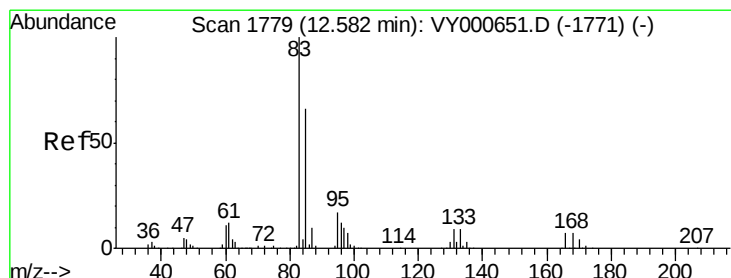
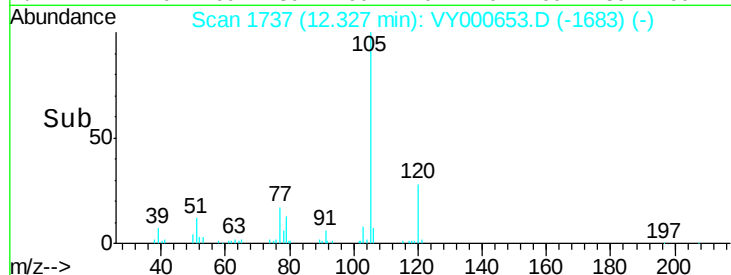
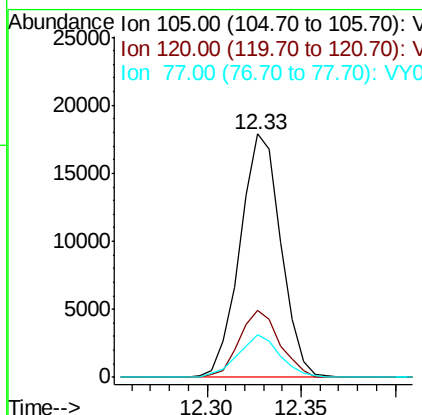
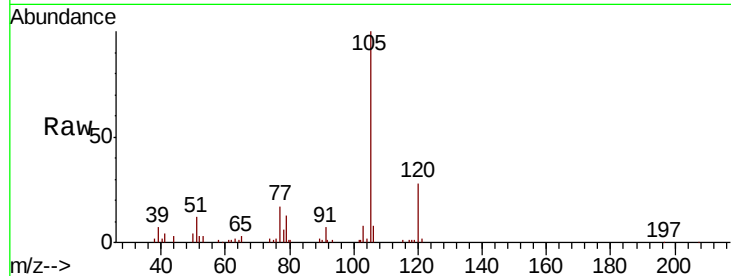
ClientSampleId :

MDL01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 26932 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 27.2  | 21.5  | 32.3  |
| 77        | 17.7  | 12.6  | 19.0  |

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#58

1,1,2,2-Tetrachloroethane

Concen: 1.445 ug/L

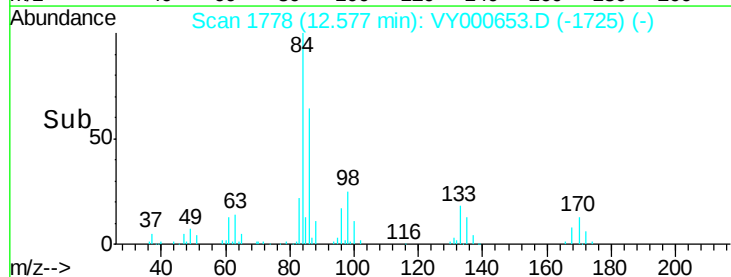
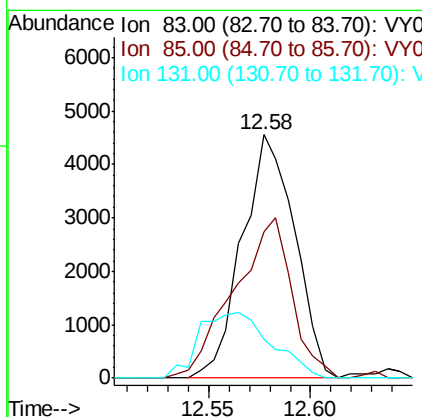
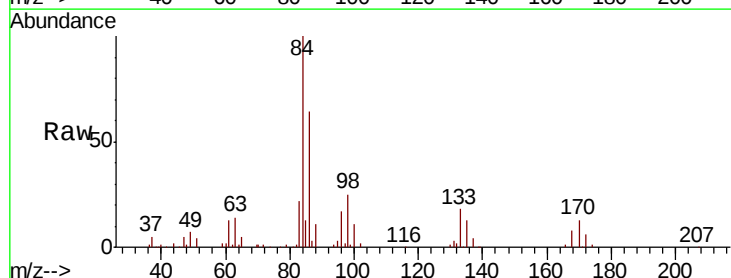
RT: 12.58 min Scan# 1778

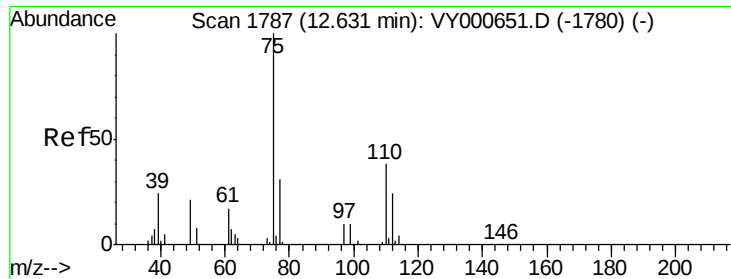
Delta R.T. -0.01 min

Lab File: VY000653.D

Acq: 12 Nov 2019 14:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 8158  |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 60.0  | 45.0  | 83.6  |
| 131       | 15.7  | 7.8   | 11.6# |





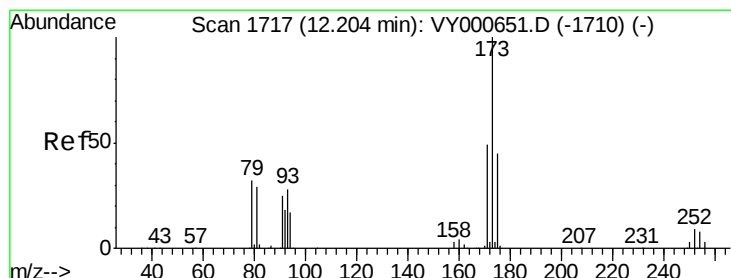
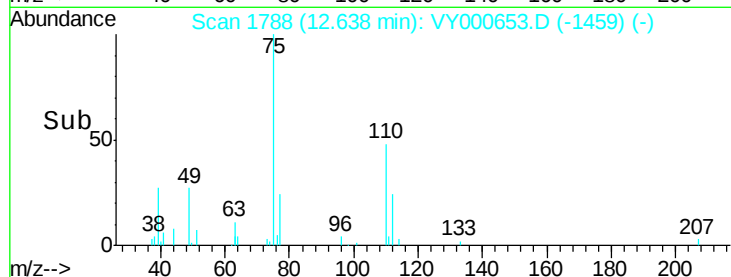
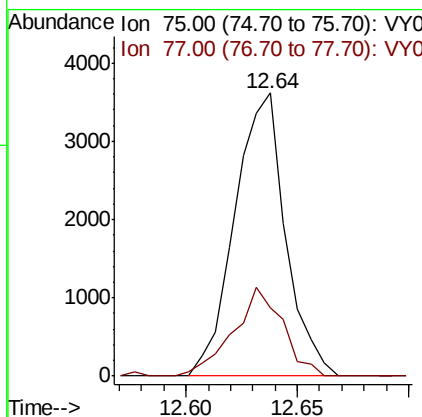
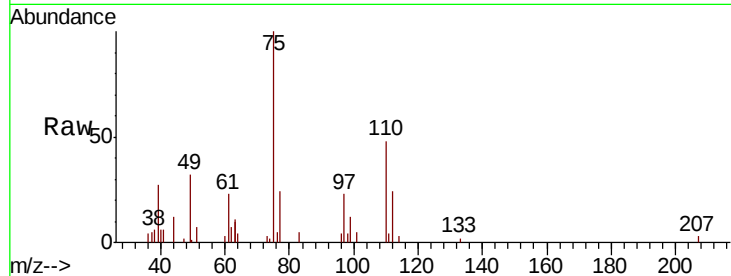
#59  
1,2,3-Trichloropropane  
Concen: 1.251 ug/L  
RT: 12.64 min Scan# 1788  
Delta R.T. 0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL01

Tot Ion: 75 Resp: 5743  
Ion Ratio Lower Upper  
75 100  
77 30.6 26.4 39.6

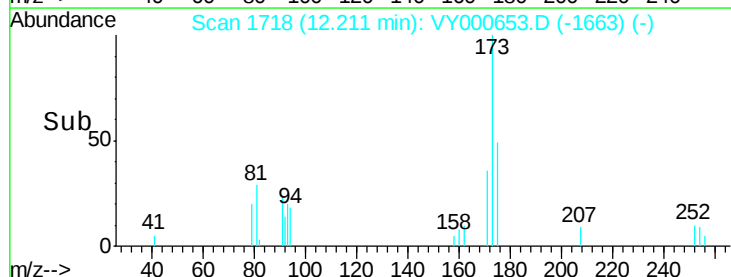
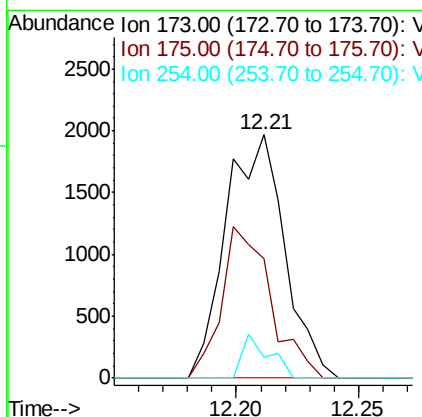
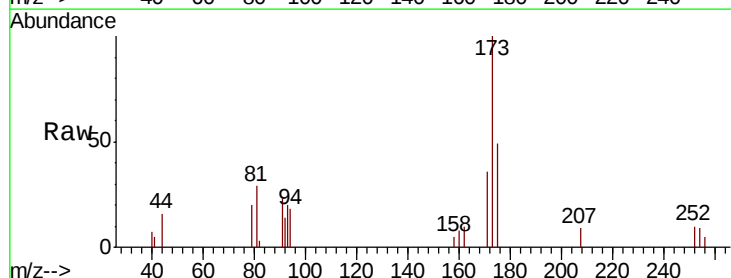
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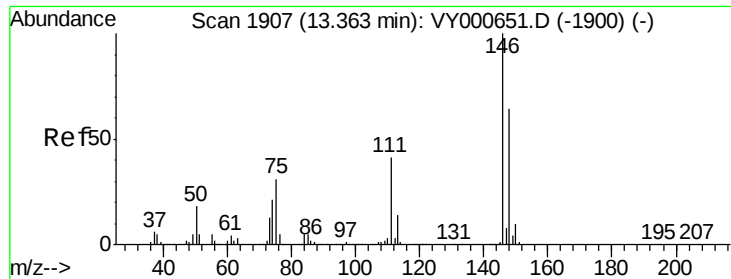
MMDadoda  
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#62  
Bromoform  
Concen: 1.108 ug/L  
RT: 12.21 min Scan# 1718  
Delta R.T. 0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Tgt Ion: 173 Resp: 3289  
Ion Ratio Lower Upper  
173 100  
175 51.8 37.8 56.6  
254 8.1 7.7 11.5





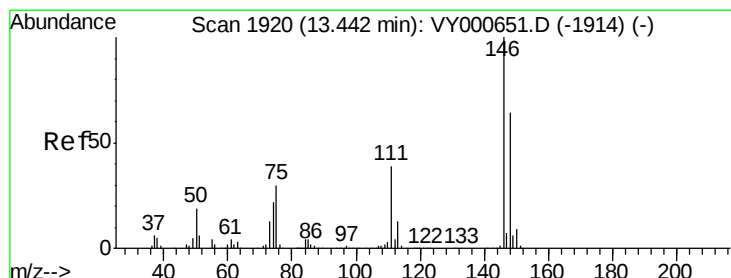
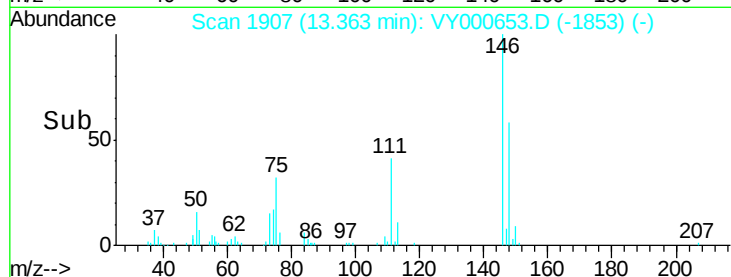
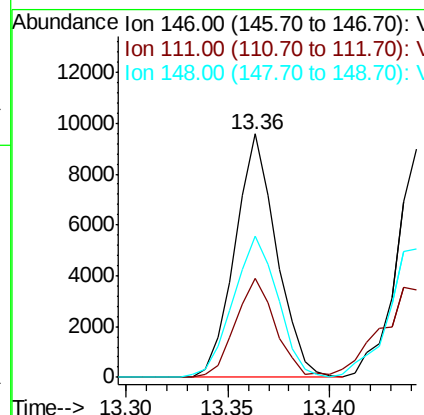
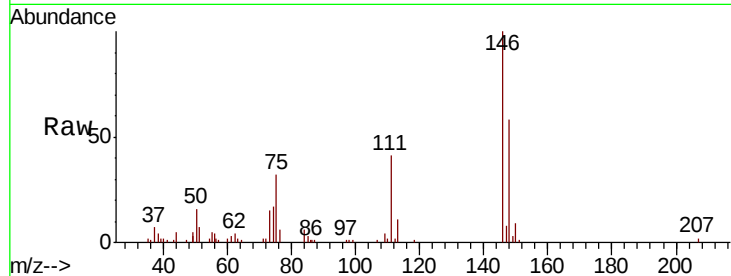
#63  
 1,3-Dichlorobenzene  
 Concen: 1.211 ug/L  
 RT: 13.36 min Scan# 1907  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.7  | 28.8  | 53.6  |
| 148     | 57.8  | 44.3  | 82.3  |

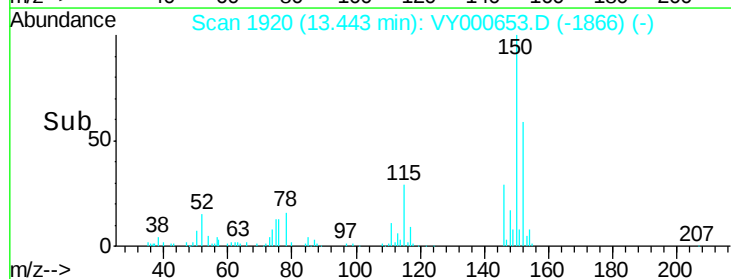
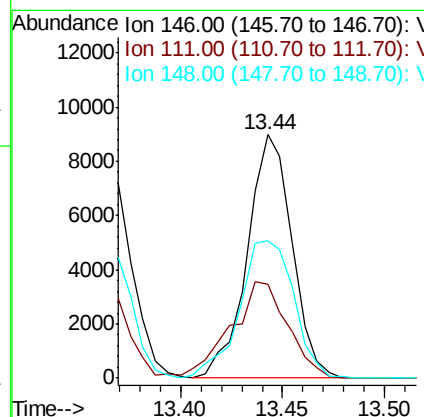
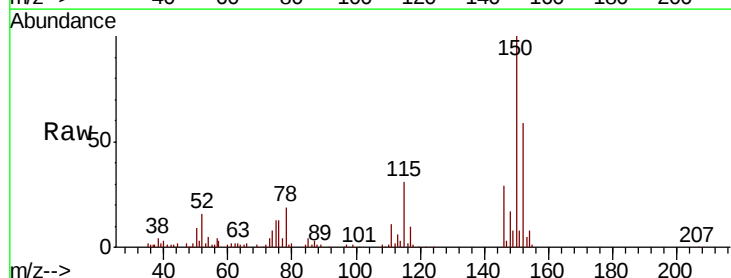
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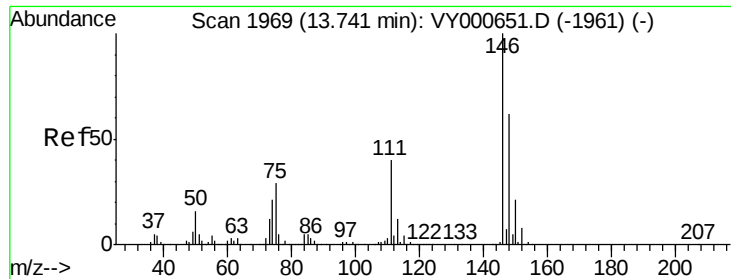
MMDadoda  
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#64  
 1,4-Dichlorobenzene  
 Concen: 1.228 ug/L  
 RT: 13.44 min Scan# 1920  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.4  | 26.7  | 49.5  |
| 148     | 56.3  | 45.2  | 84.0  |





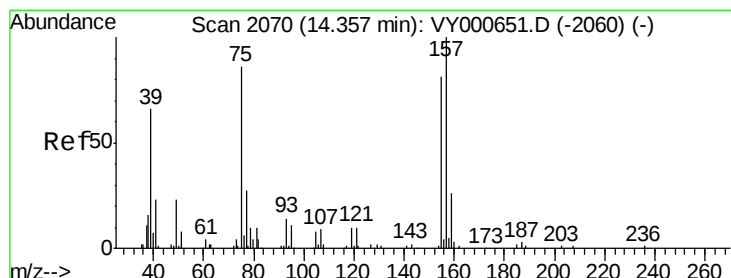
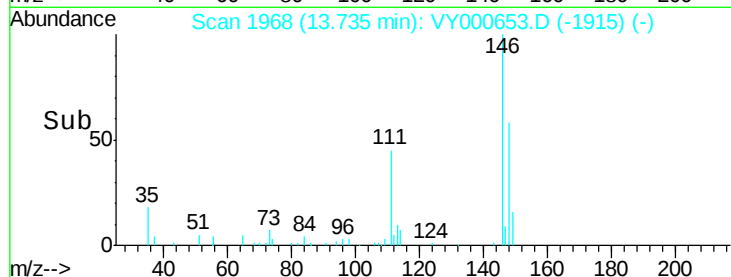
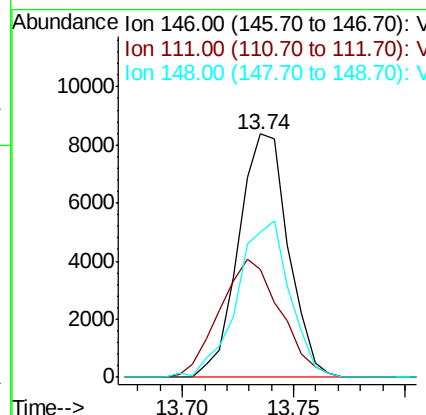
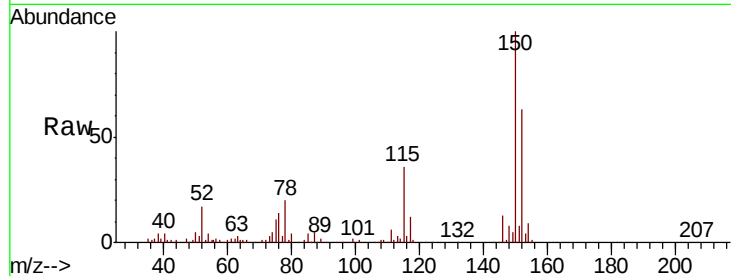
#65  
 1,2-Dichlorobenzene  
 Concen: 1.267 ug/L  
 RT: 13.74 min Scan# 1968  
 Delta R.T. -0.01 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.4  | 33.8  | 50.8  |
| 148     | 59.7  | 51.0  | 76.6  |

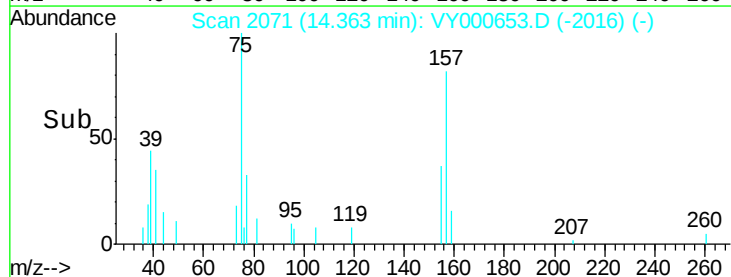
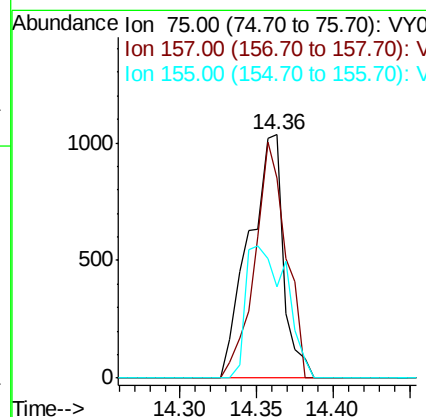
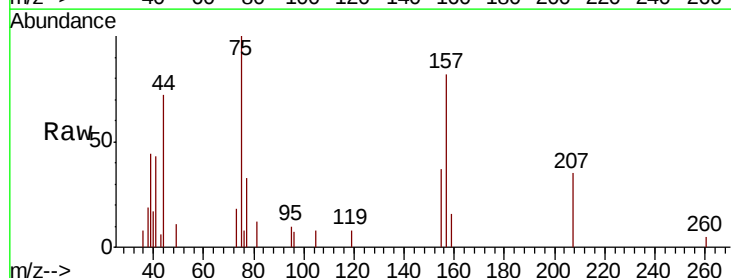
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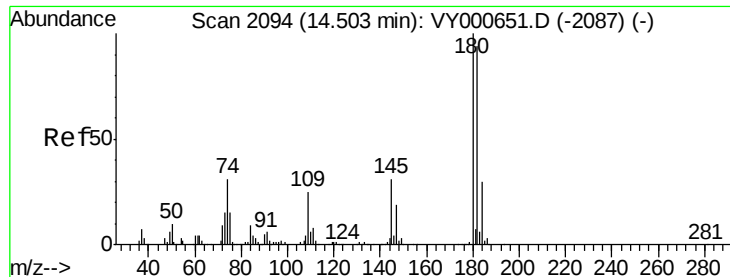
MMDadoda  
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#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 1.646 ug/L  
 RT: 14.36 min Scan# 2071  
 Delta R.T. 0.01 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 157     | 82.4  | 78.1  | 117.1 |
| 155     | 37.5  | 64.2  | 96.4# |





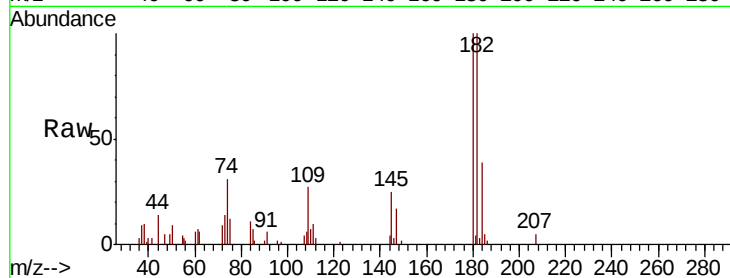
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.134 ug/L  
 RT: 14.50 min Scan# 2094  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   | 8819 |       |       |
| 182     | 95.3  |      | 75.6  | 113.4 |
| 184     | 34.8  |      | 24.5  | 36.7  |
| 145     | 29.4  |      | 25.1  | 37.7  |

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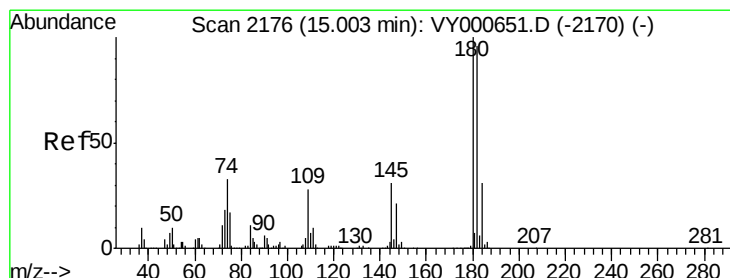
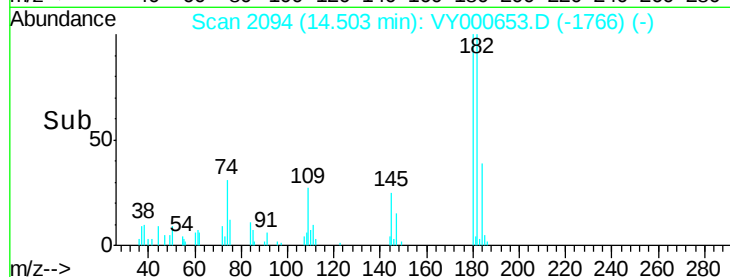
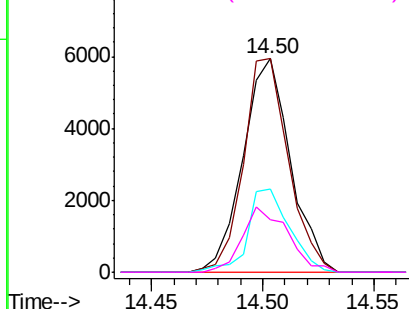
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

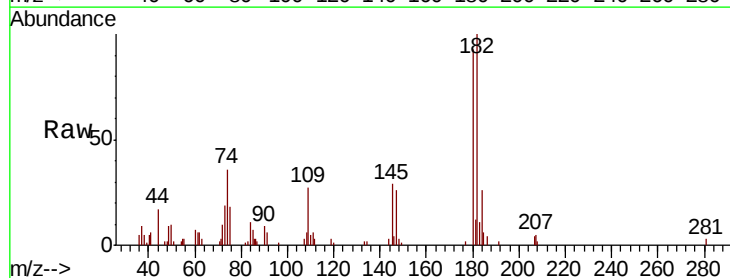
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 1.178 ug/L  
 RT: 15.00 min Scan# 2176  
 Delta R.T. 0.00 min  
 Lab File: VY000653.D  
 Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   | 8184 |       |       |
| 182     | 99.6  |      | 77.5  | 116.3 |
| 145     | 30.1  |      | 25.4  | 38.2  |

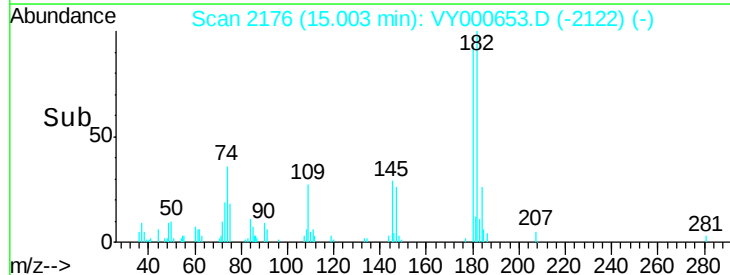
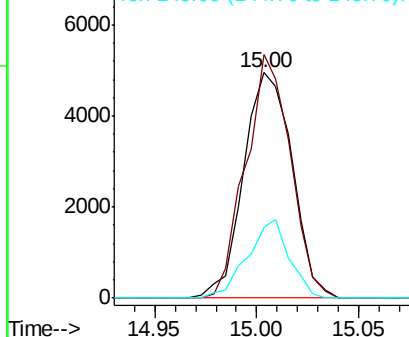


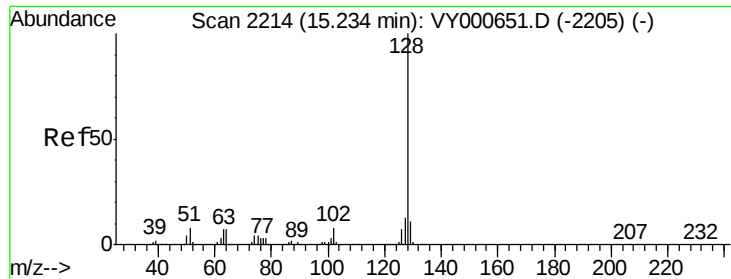
Abundance

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





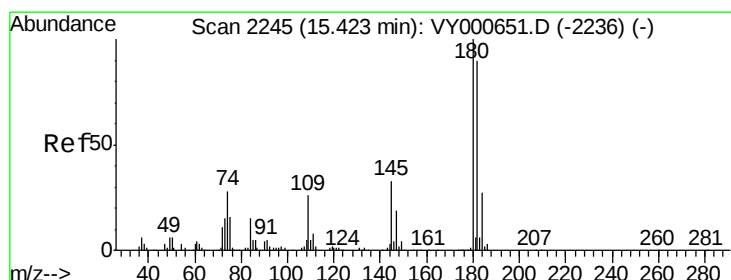
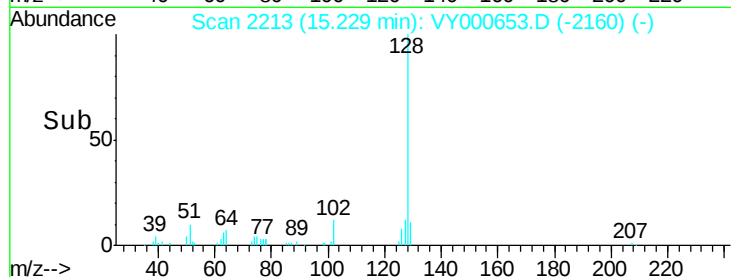
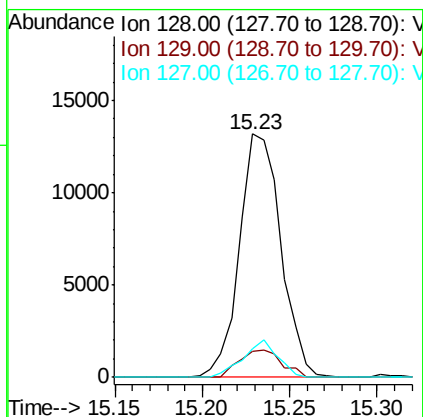
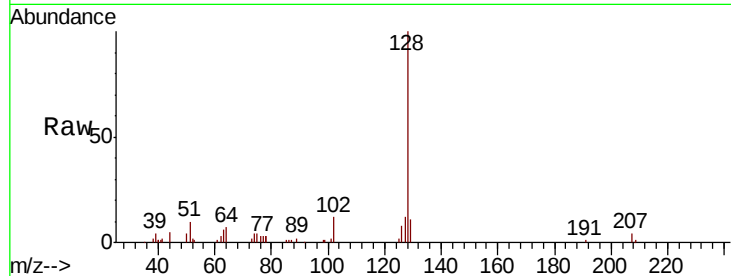
#69  
Naphthalene  
Concen: 1.256 ug/L  
RT: 15.23 min Scan# 2213  
Delta R.T. -0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

Instrument :  
MSVOA\_Y  
ClientSampled :  
MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.4  | 8.4   | 12.6  |
| 127     | 12.8  | 9.8   | 14.6  |

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#70  
1,2,3-Trichlorobenzene  
Concen: 1.232 ug/L  
RT: 15.42 min Scan# 2244  
Delta R.T. -0.01 min  
Lab File: VY000653.D  
Acq: 12 Nov 2019 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.3  | 76.2  | 114.4 |
| 145     | 32.7  | 26.6  | 39.8  |

