

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101918\  
 Data File : VR026150.D  
 Acq On : 19 Oct 2018 15:10  
 Operator : SY/MD  
 Sample : MDL  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 MDL

Manual Integrations  
 APPROVED

MMDadoda  
 10/24/2018 12:17:13 PM

Quant Time: Oct 20 04:43:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 20 01:53:32 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 533485   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 446830   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 145111   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 185175   | 3.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.40%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 186922   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.20%  |
| 11) 1,1-Dichloroethene-d2      | 3.60   | 63    | 348471   | 3.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.80%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 221738   | 57.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 115.70% |
| 24) Chloroform-d               | 7.20   | 84    | 338102   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 148903   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.40%  |
| 32) Benzene-d6                 | 7.85   | 84    | 638645   | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.00%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 183249   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.80%  |
| 41) Toluene-d8                 | 9.97   | 98    | 561953   | 4.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.80%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 37404    | 3.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 77.00%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 171836   | 61.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 122.40% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 79339    | 5.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 109.00% |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 110232   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.20%  |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 8553   | 0.239 ug/L # | 66     |
| 3) Chloromethane               | 2.01 | 50  | 19595  | 0.344 ug/L   | 89     |
| 5) Vinyl chloride              | 2.17 | 62  | 17619  | 0.311 ug/L   | 97     |
| 6) Bromomethane                | 2.53 | 94  | 13244  | 0.354 ug/L   | 88     |
| 8) Chloroethane                | 2.66 | 64  | 10989  | 0.313 ug/L   | 88     |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 23938m | 0.293 ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.67 | 101 | 17022m | 0.349 ug/L   |        |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 17941  | 0.346 ug/L # | 1      |
| 13) Acetone                    | 3.70 | 43  | 13292  | 3.354 ug/L   | 82     |
| 14) Carbon disulfide           | 3.93 | 76  | 31013  | 0.229 ug/L # | 92     |
| 15) Methyl Acetate             | 4.19 | 43  | 4438   | 0.429 ug/L # | 66     |
| 16) Methylene chloride         | 4.40 | 84  | 17665m | 0.376 ug/L   |        |
| 17) Methyl tert-butyl Ether    | 4.88 | 73  | 13657  | 0.290 ug/L # | 80     |
| 18) trans-1,2-Dichloroethene   | 4.89 | 96  | 10420  | 0.266 ug/L # | 91     |
| 19) 1,1-Dichloroethane         | 5.70 | 63  | 20060  | 0.272 ug/L   | 92     |
| 21) 2-Butanone                 | 6.69 | 43  | 13183m | 2.884 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 11068  | 0.298 ug/L # | 73     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 23) Bromochloromethane          | 7.05  | 128  | 3462     | 0.333 | ug/L # | 84       |
| 25) Chloroform                  | 7.23  | 83   | 23322    | 0.324 | ug/L   | 88       |
| 27) 1,2-Dichloroethane          | 8.00  | 62   | 10818    | 0.307 | ug/L # | 95       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 16338    | 0.268 | ug/L   | 94       |
| 30) Cyclohexane                 | 7.51  | 56   | 11516    | 0.188 | ug/L # | 94       |
| 31) Carbon tetrachloride        | 7.64  | 117  | 12861    | 0.232 | ug/L   | 92       |
| 33) Benzene                     | 7.91  | 78   | 46669m   | 0.278 | ug/L   |          |
| 34) Trichloroethene             | 8.71  | 95   | 11560    | 0.269 | ug/L   | 90       |
| 35) Methylcyclohexane           | 8.95  | 83   | 13464    | 0.211 | ug/L   | 93       |
| 37) 1,2-Dichloropropane         | 8.99  | 63   | 10646    | 0.301 | ug/L # | 89       |
| 38) Bromodichloromethane        | 9.28  | 83   | 10569    | 0.278 | ug/L # | 97       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 10252    | 0.253 | ug/L   | 91       |
| 40) 4-Methyl-2-pentanone        | 9.87  | 43   | 26031    | 2.410 | ug/L # | 92       |
| 42) Toluene                     | 10.03 | 91   | 46456    | 0.263 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 9674     | 0.342 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 4954     | 0.332 | ug/L   | 94       |
| 47) Tetrachloroethene           | 10.51 | 164  | 7686     | 0.251 | ug/L   | 91       |
| 48) 2-Hexanone                  | 10.63 | 43   | 21446    | 3.040 | ug/L # | 96       |
| 49) Dibromochloromethane        | 10.78 | 129  | 4521     | 0.269 | ug/L   | 97       |
| 50) 1,2-Dibromoethane           | 10.89 | 107  | 4184     | 0.325 | ug/L # | 76       |
| 51) Chlorobenzene               | 11.32 | 112  | 26308    | 0.269 | ug/L   | 97       |
| 52) Ethylbenzene                | 11.39 | 91   | 43172    | 0.212 | ug/L   | 91       |
| 53) m,p-Xylene                  | 11.50 | 106  | 14141    | 0.191 | ug/L   | 98       |
| 54) o-Xylene                    | 11.83 | 106  | 12073    | 0.178 | ug/L   | 75       |
| 55) Styrene                     | 11.84 | 104  | 18753    | 0.179 | ug/L   | 87       |
| 56) Isopropylbenzene            | 12.13 | 105  | 31096    | 0.165 | ug/L   | 96       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.38 | 83   | 4381     | 0.289 | ug/L # | 87       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 3133     | 0.281 | ug/L # | 85       |
| 61) Bromoform                   | 12.00 | 173  | 1570     | 0.311 | ug/L # | 74       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 11222    | 0.233 | ug/L   | 93       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 14204    | 0.285 | ug/L   | 90       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 11381    | 0.294 | ug/L   | 90       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.13 | 75   | 433m     | 0.275 | ug/L   |          |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 7534     | 0.256 | ug/L # | 91       |
| 68) 1,2,4-trichlorobenzene      | 14.78 | 180  | 4189     | 0.244 | ug/L   | 94       |
| 69) Naphthalene                 | 15.01 | 128  | 2987     | 0.179 | ug/L # | 71       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 3320     | 0.279 | ug/L # | 90       |
| -----                           |       |      |          |       |        |          |

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

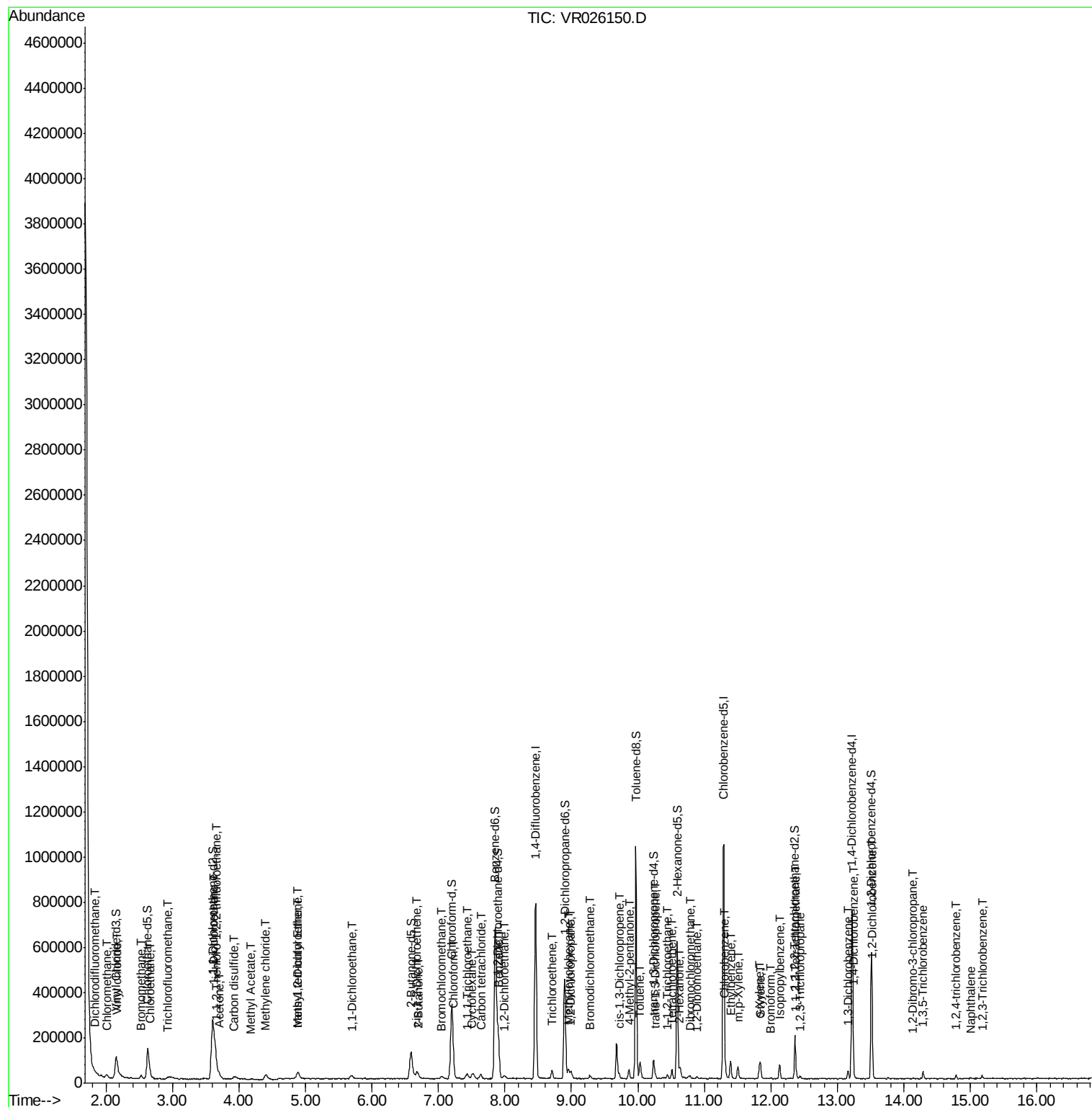
Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101918\  
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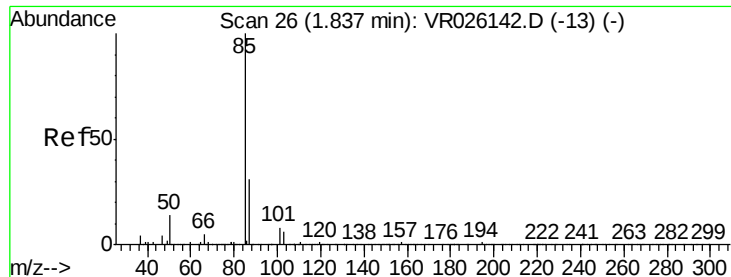
Instrument :  
MSVOA\_R  
ClientSampled :  
MDL

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#2

Dichlorodifluoromethane

Concen: 0.239 ug/L

RT: 1.84 min Scan# 27

Delta R.T. 0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampleId :

MDL

Tot Ion: 85 Resp: 8553

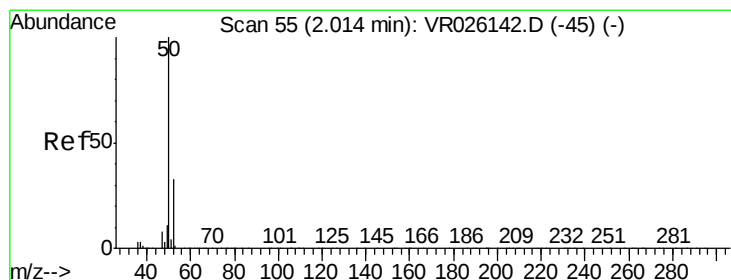
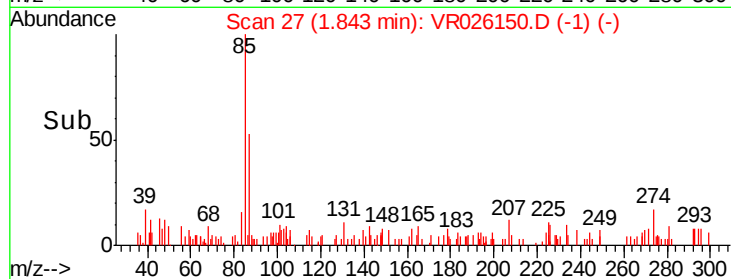
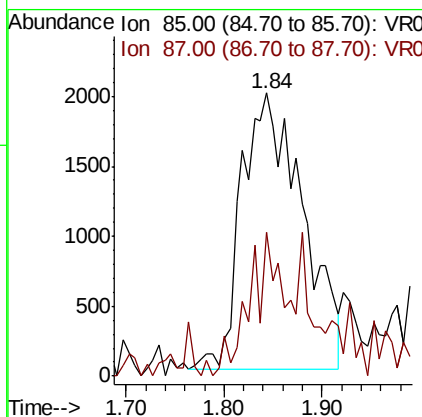
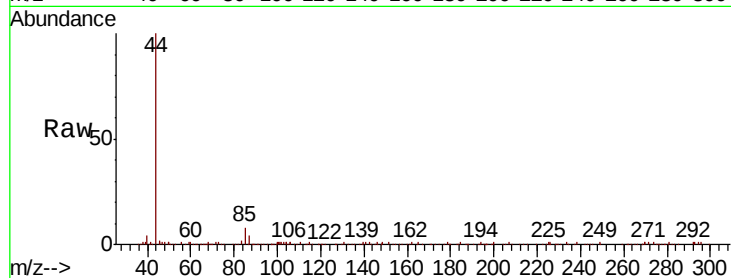
Ion Ratio Lower Upper

85 100

87 11.1 23.4 35.2#

Manual Integrations  
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#3

Chloromethane

Concen: 0.344 ug/L

RT: 2.01 min Scan# 55

Delta R.T. -0.00 min

Lab File: VR026150.D

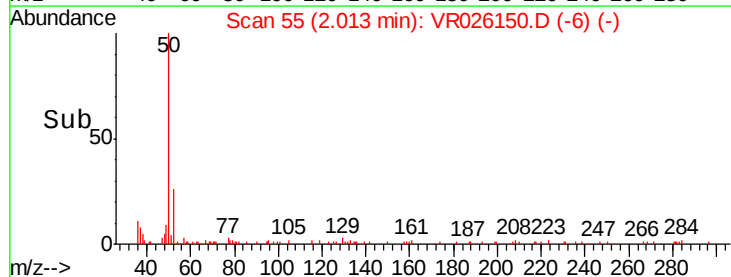
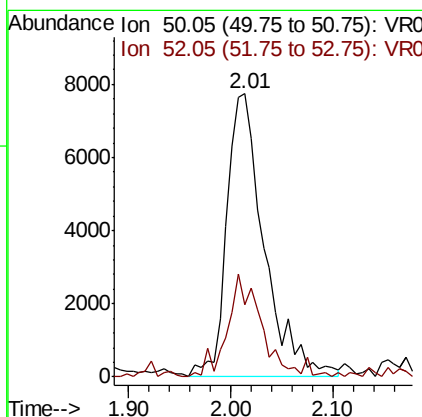
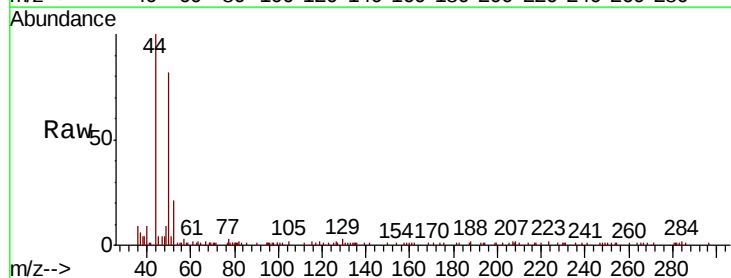
Acq: 19 Oct 2018 15:10

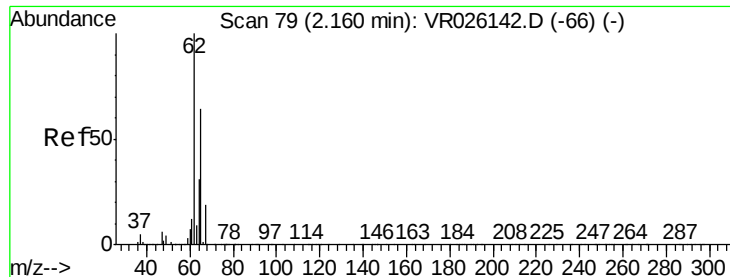
Tgt Ion: 50 Resp: 19595

Ion Ratio Lower Upper

50 100

52 25.6 22.0 40.8





#5

Vinyl chloride

Concen: 0.311 ug/L

RT: 2.17 min Scan# 80

Delta R.T. 0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampleId :

MDL

Tot Ion: 62 Resp: 17619

Ion Ratio Lower Upper

62 100

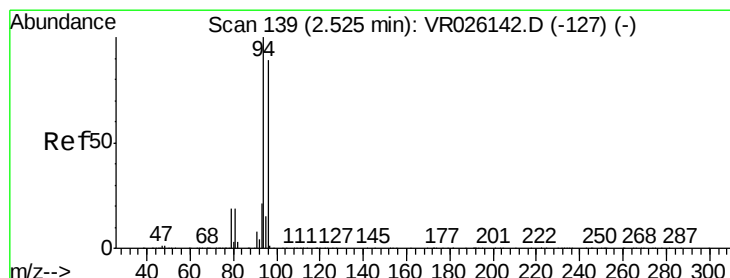
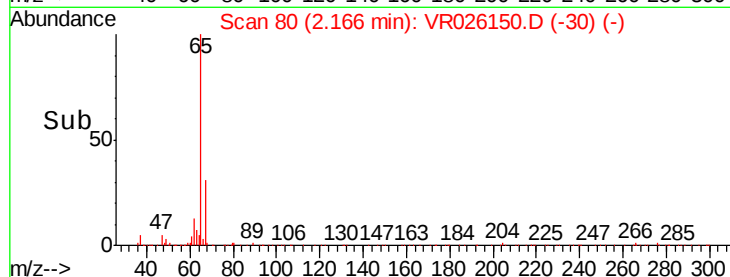
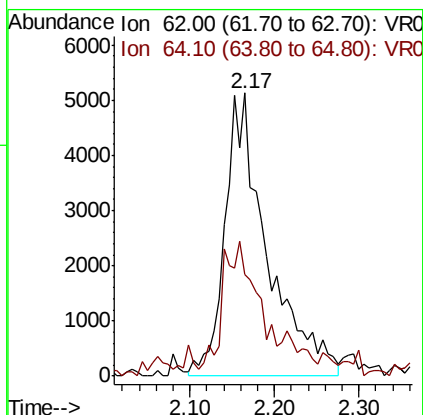
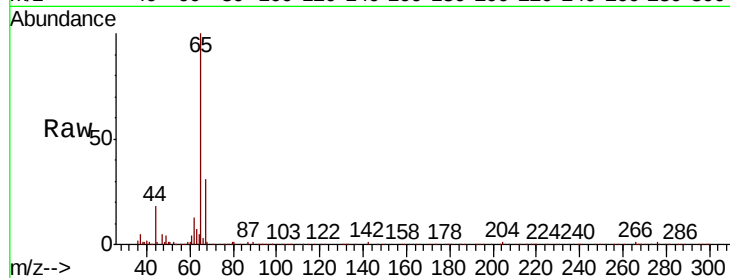
64 35.8 23.9 44.3

Manual Integrations

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#6

Bromomethane

Concen: 0.354 ug/L

RT: 2.53 min Scan# 140

Delta R.T. 0.01 min

Lab File: VR026150.D

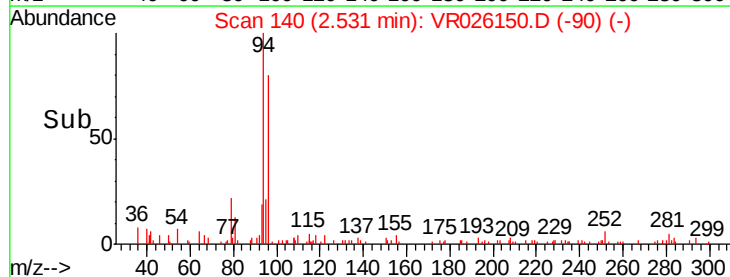
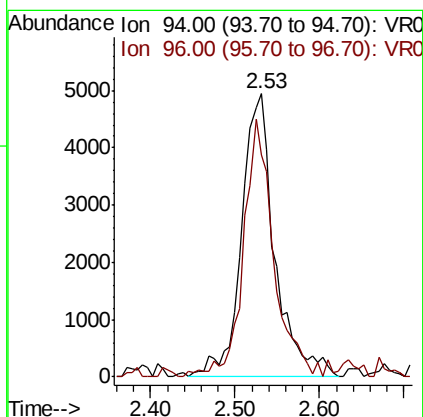
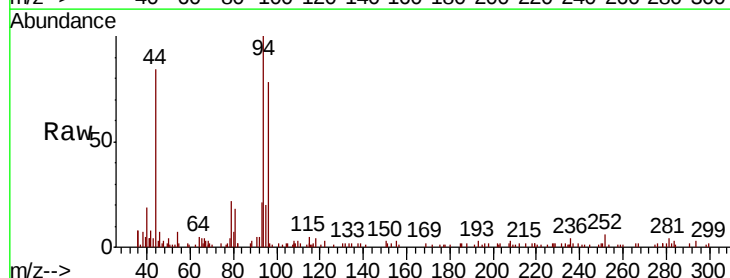
Acq: 19 Oct 2018 15:10

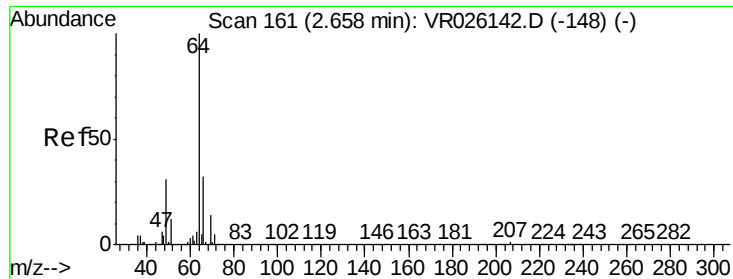
Tgt Ion: 94 Resp: 13244

Ion Ratio Lower Upper

94 100

96 78.3 62.5 116.1





#8

Chloroethane

Concen: 0.313 ug/L

RT: 2.66 min Scan# 162

Delta R.T. 0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampleId :

MDL

Tot Ion: 64 Resp: 10989

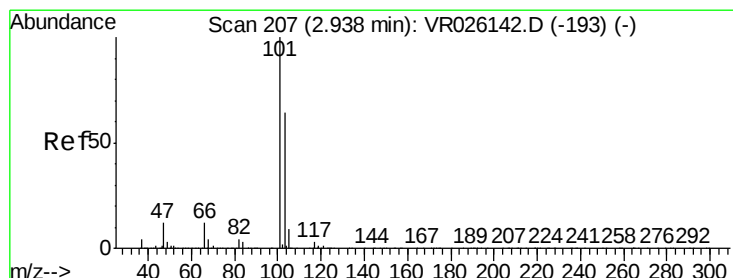
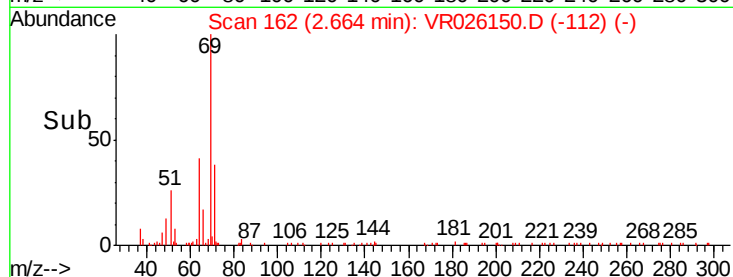
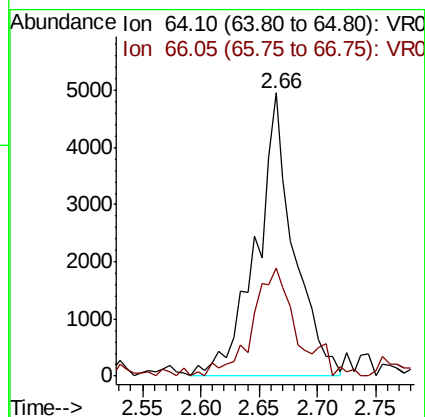
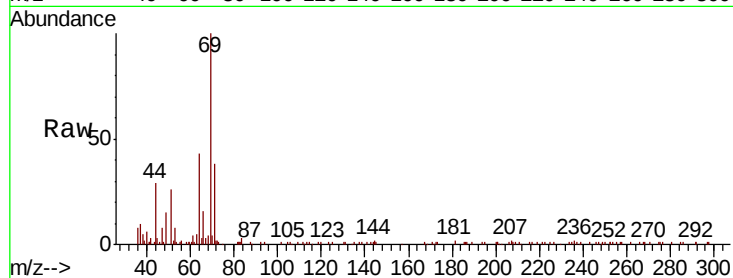
Ion Ratio Lower Upper

64 100

66 38.1 22.0 40.8

Manual Integrations  
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#9

Trichlorofluoromethane

Concen: 0.293 ug/L m

RT: 2.93 min Scan# 205

Delta R.T. -0.01 min

Lab File: VR026150.D

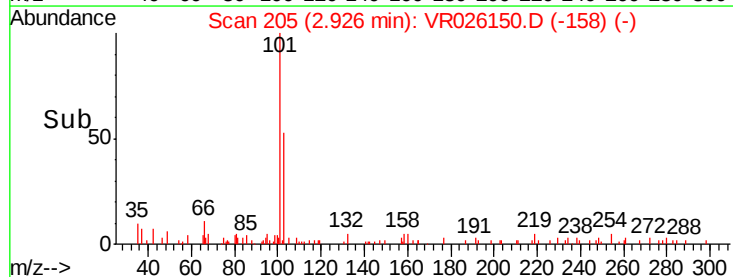
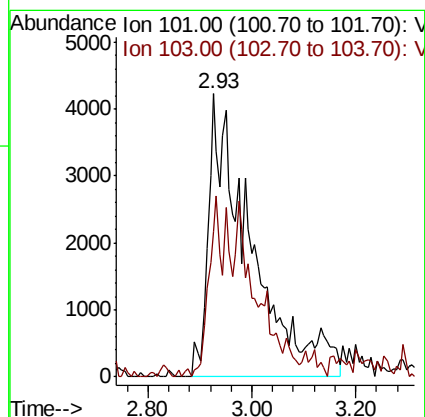
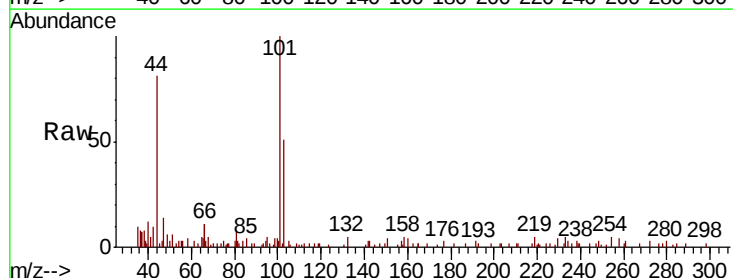
Acq: 19 Oct 2018 15:10

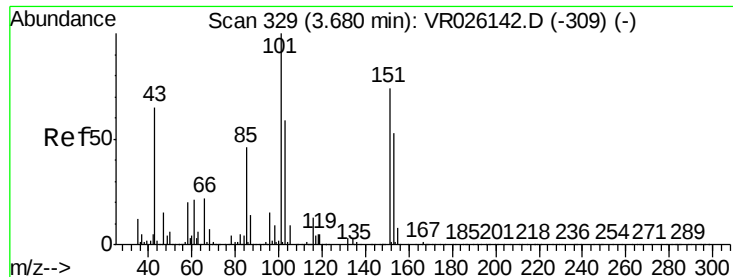
Tgt Ion: 101 Resp: 23938

Ion Ratio Lower Upper

101 100

103 19.0 26.0 39.0#





#10

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

Concen: 0.349 ug/L m

RT: 3.67 min Scan# 328

Delta R.T. -0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

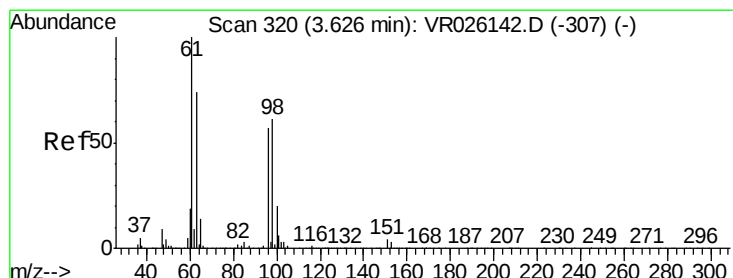
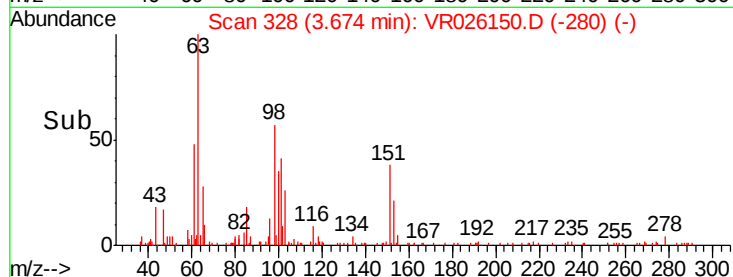
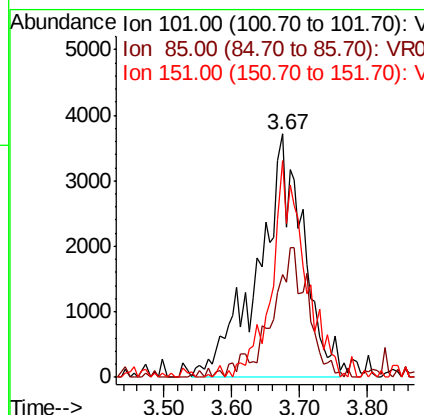
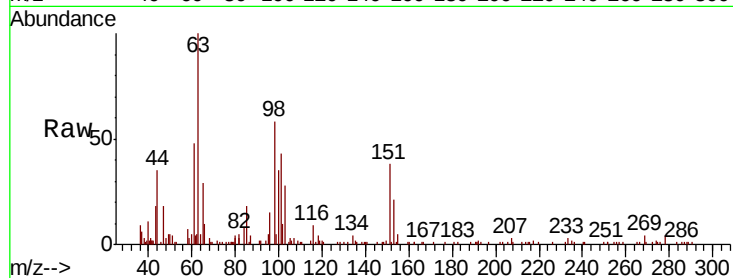
ClientSampleId :

MDL

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 101  | Resp: | 17022 |
| Ion Ratio |      | Lower | Upper |
| 101       | 100  |       |       |
| 85        | 40.3 | 37.8  | 56.8  |
| 151       | 65.1 | 63.2  | 94.8  |

Manual Integrations  
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#12

1,1-Dichloroethene

Concen: 0.346 ug/L

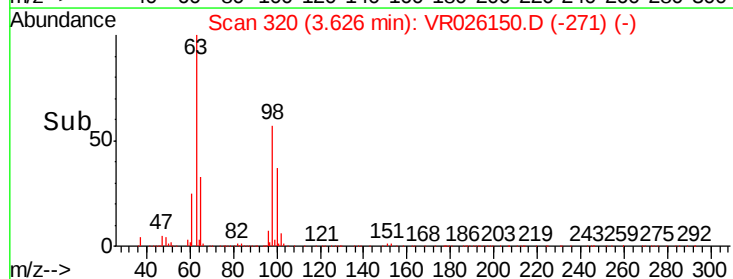
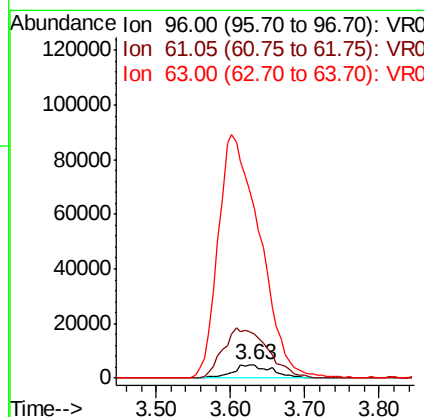
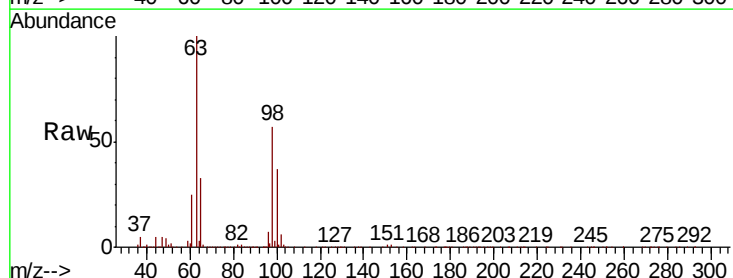
RT: 3.63 min Scan# 320

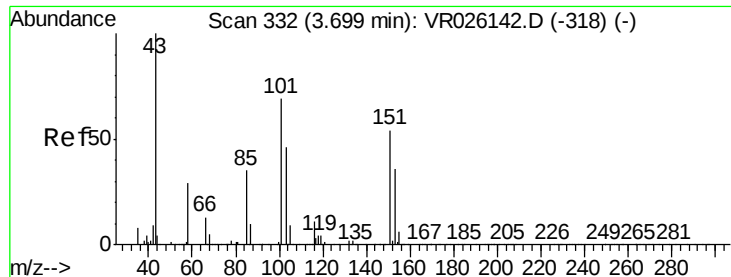
Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 17941  |
| Ion Ratio |        | Lower | Upper  |
| 96        | 100    |       |        |
| 61        | 351.5  | 126.7 | 235.3# |
| 63        | 1425.6 | 125.0 | 232.2# |





#13

Acetone

Concen: 3.354 ug/L

RT: 3.70 min Scan# 333

Delta R.T. 0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampleId :

MDL

Tot Ion: 43 Resp: 13292

Ion Ratio Lower Upper

43 100

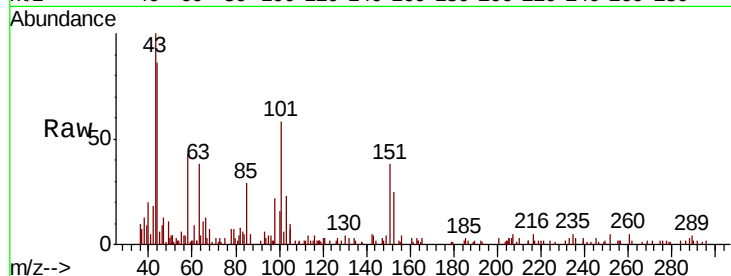
58 37.2 0.0 55.4

Manual Integrations

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MMDadoda

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Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

3.70

5000

4000

3000

2000

1000

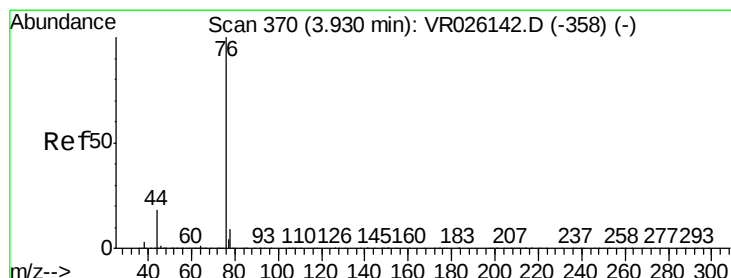
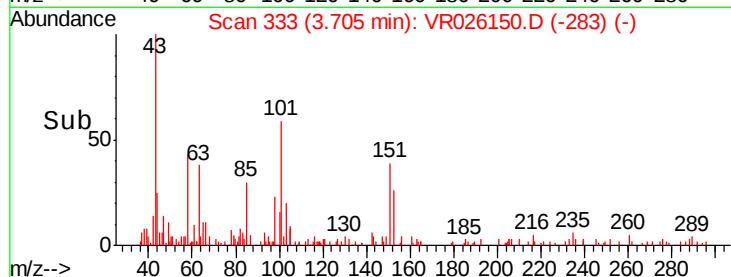
0

Time-->

3.60

3.70

3.80



#14

Carbon disulfide

Concen: 0.229 ug/L

RT: 3.93 min Scan# 370

Delta R.T. -0.00 min

Lab File: VR026150.D

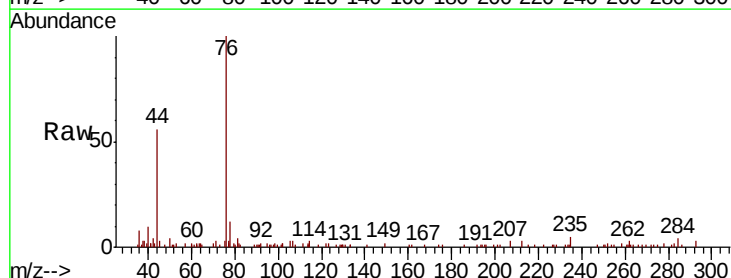
Acq: 19 Oct 2018 15:10

Tgt Ion: 76 Resp: 31013

Ion Ratio Lower Upper

76 100

78 12.3 7.6 11.4#



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0

3.93

8000

6000

4000

2000

0

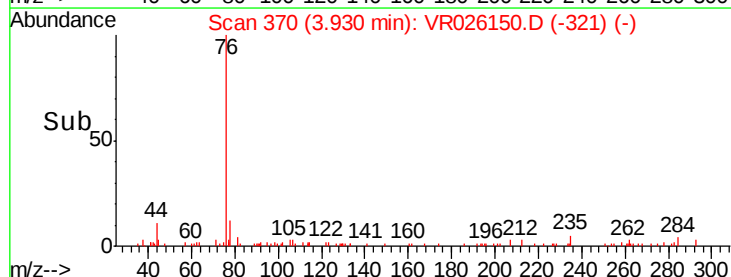
Time-->

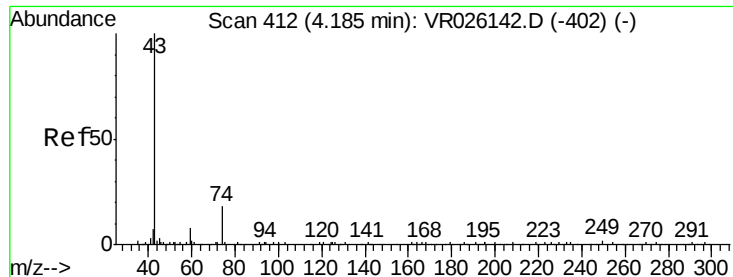
3.80

3.90

4.00

4.10





#15

Methyl Acetate

Concen: 0.429 ug/L

RT: 4.19 min Scan# 412

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

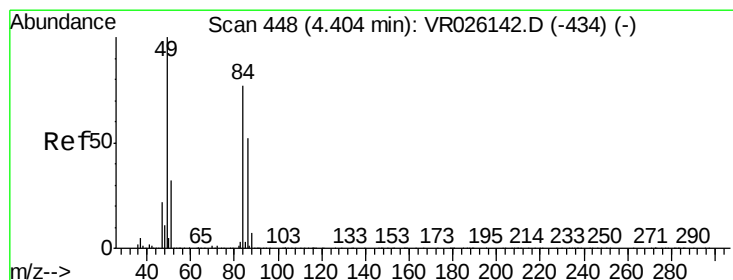
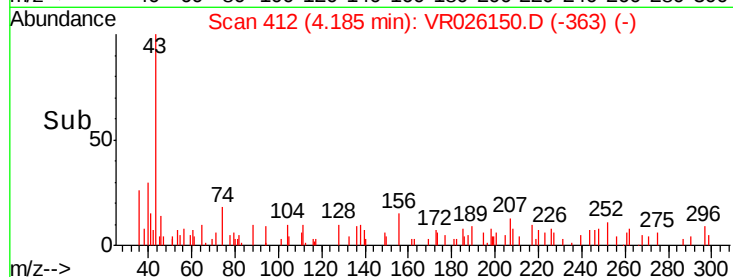
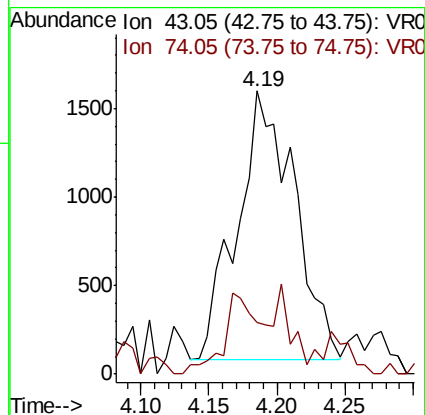
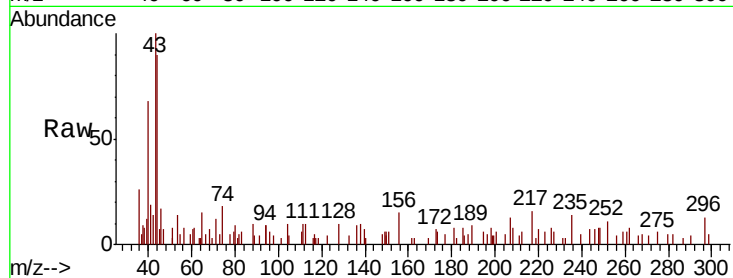
ClientSampled :

MDL

| Tot Ion | 43    | Resp  | 4438  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 43      | 100   |       |       |
| 74      | 8.0   | 19.8  | 29.8# |

Manual Integrations  
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MMDadoda  
10/24/2018 12:17:13 PM



#16

Methylene chloride

Concen: 0.376 ug/L m

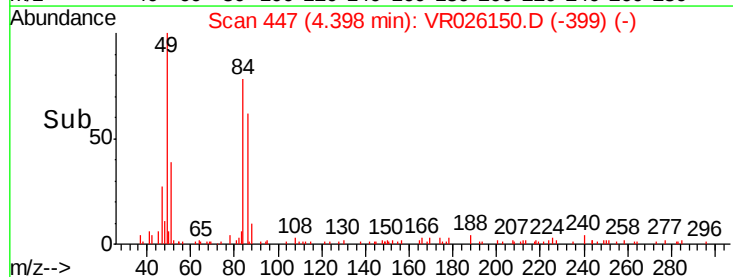
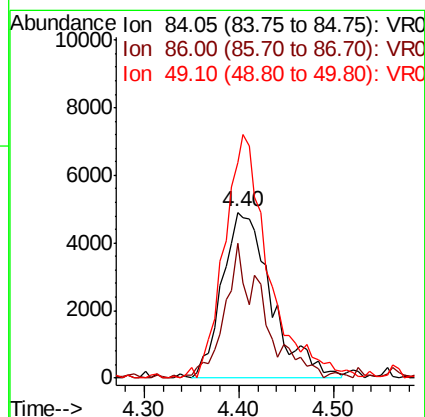
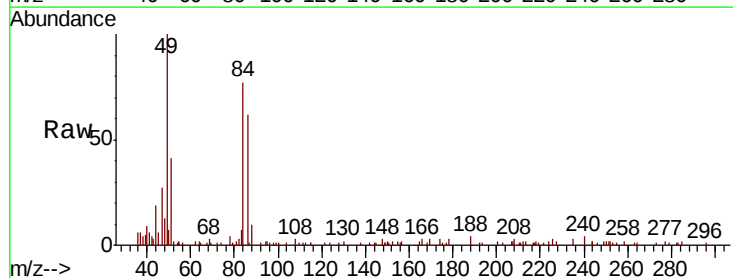
RT: 4.40 min Scan# 447

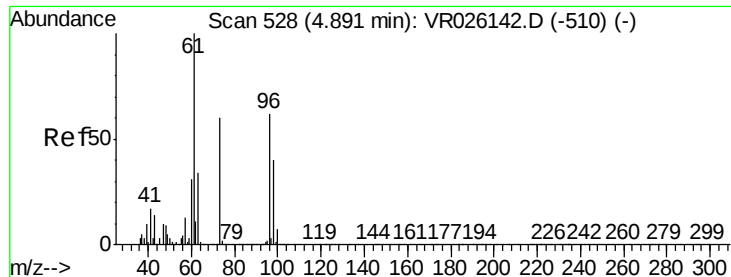
Delta R.T. -0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

| Tgt Ion | 84    | Resp  | 17665 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 84      | 100   |       |       |
| 86      | 81.1  | 43.0  | 79.8# |
| 49      | 130.4 | 89.1  | 165.5 |





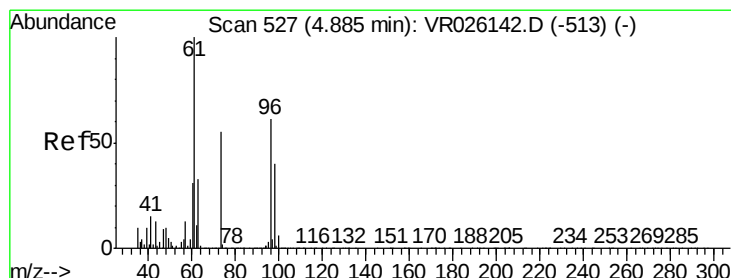
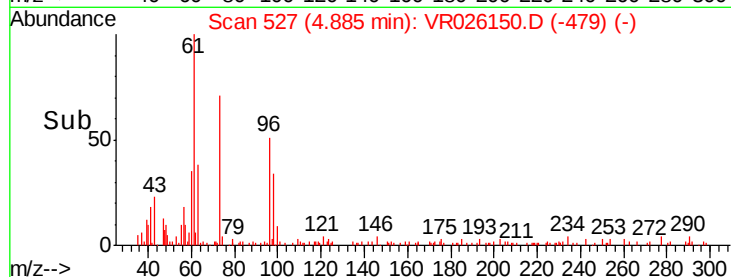
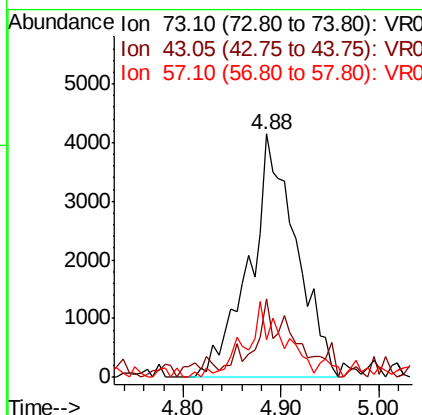
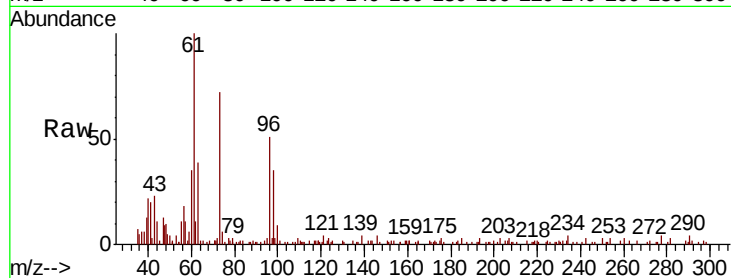
#17  
Methvl tert-butvl Ether  
Concen: 0.290 ug/L  
RT: 4.88 min Scan# 527  
Delta R.T. -0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampled :  
MDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 7.0   | 20.1  | 30.1# |
| 57      | 25.1  | 19.0  | 28.4  |

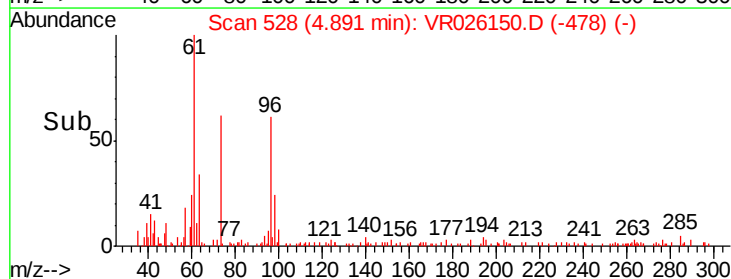
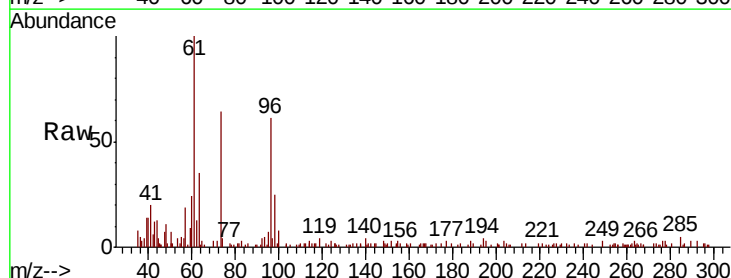
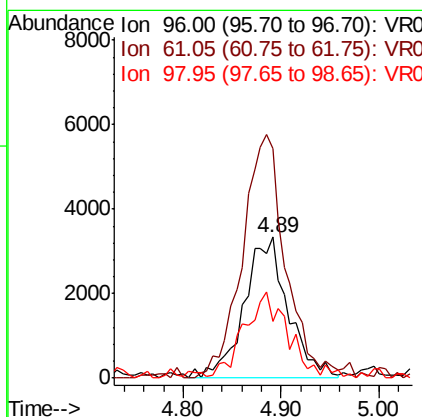
Manual Integrations  
APPROVED

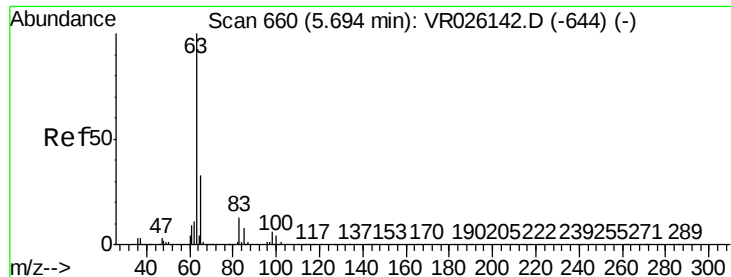
MMDadoda  
10/24/2018 12:17:13 PM



#18  
trans-1,2-Dichloroethene  
Concen: 0.266 ug/L  
RT: 4.89 min Scan# 528  
Delta R.T. 0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 162.6 | 111.4 | 206.8 |
| 98      | 40.3  | 41.4  | 77.0# |





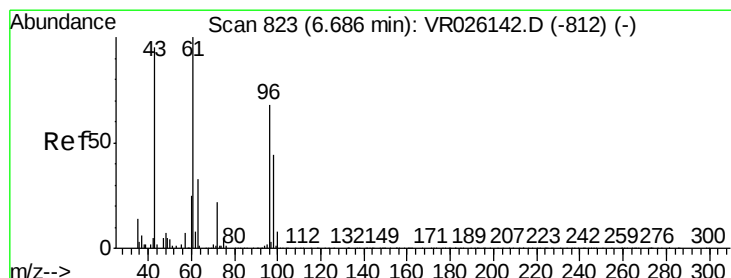
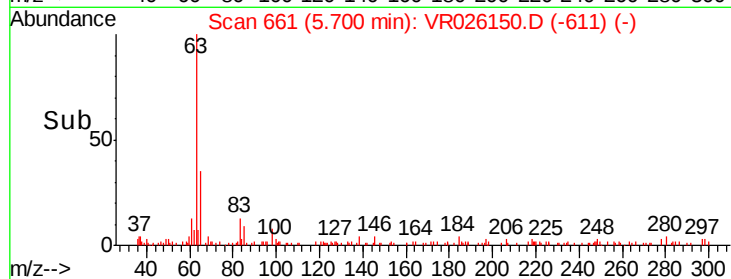
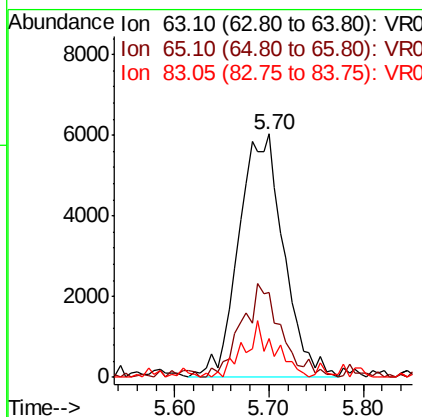
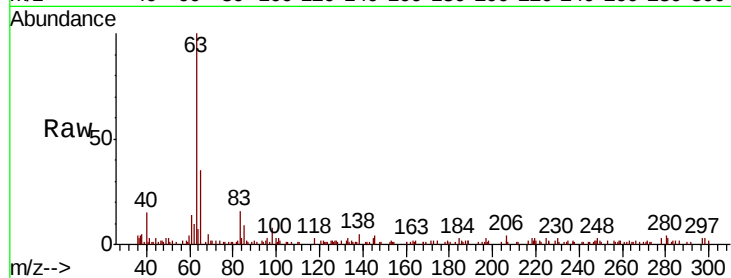
#19  
1,1-Dichloroethane  
Concen: 0.272 ug/L  
RT: 5.70 min Scan# 661  
Delta R.T. 0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 20060 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 65        | 34.8  | 21.2  | 39.4  |
| 83        | 15.9  | 9.2   | 17.2  |

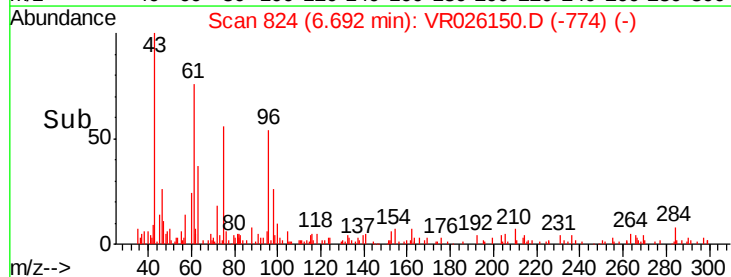
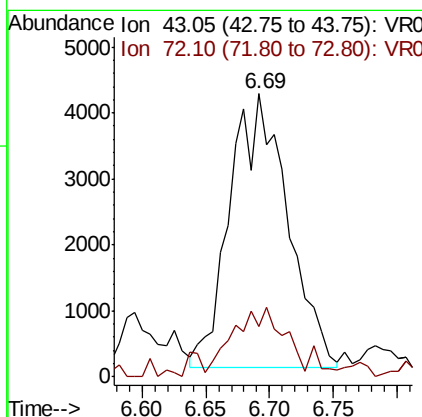
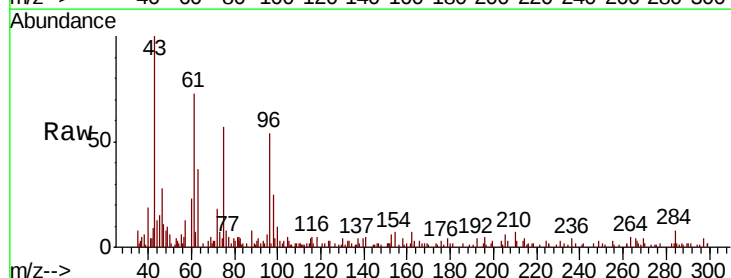
Manual Integrations  
APPROVED

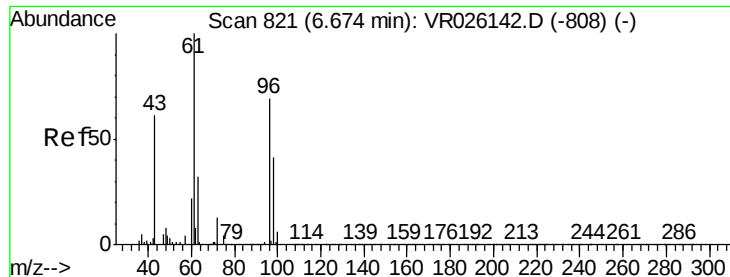
MMDadoda  
10/24/2018 12:17:13 PM



#21  
2-Butanone  
Concen: 2.884 ug/L m  
RT: 6.69 min Scan# 824  
Delta R.T. 0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 13183 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 72        | 1.3   | 12.3  | 36.8# |





#22

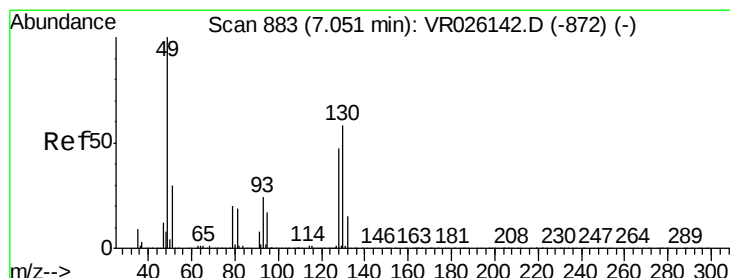
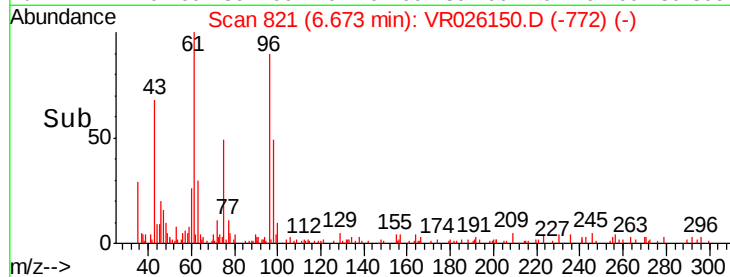
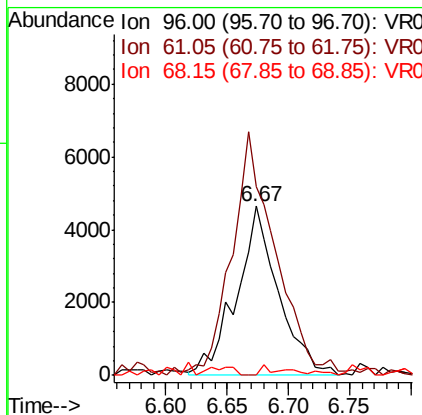
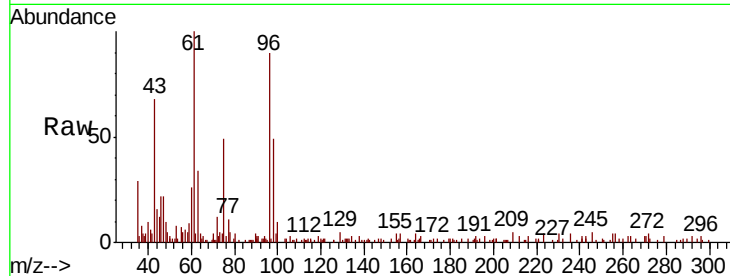
cis-1,2-Dichloroethene  
Concen: 0.298 ug/L  
RT: 6.67 min Scan# 821  
Delta R.T. -0.00 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampled :  
MDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 111.1 | 101.8 | 189.0 |
| 68      | 0.0   | 0.1   | 0.3#  |

Manual Integrations  
APPROVED

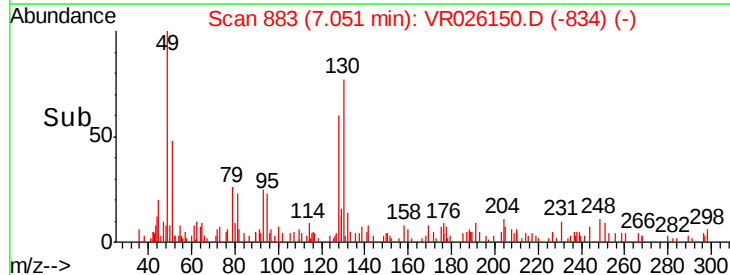
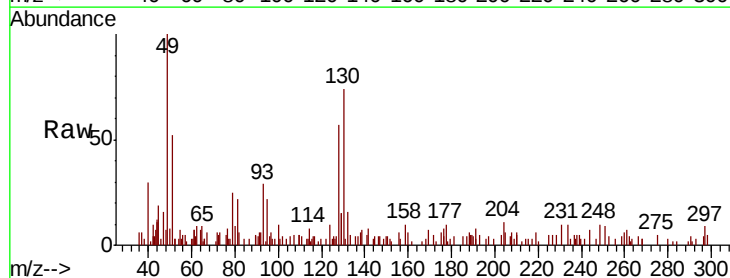
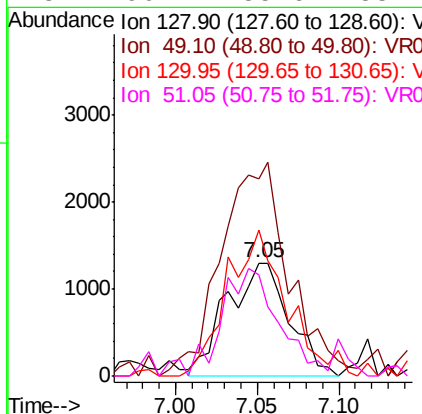
MMDadoda  
10/24/2018 12:17:13 PM

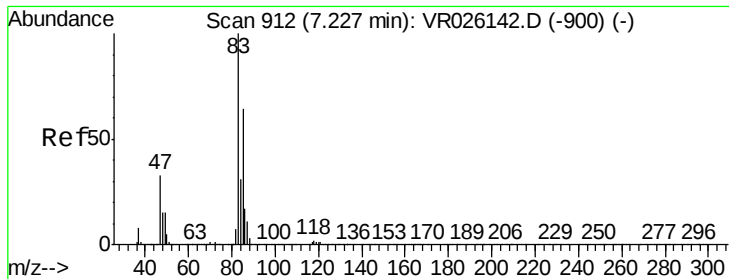


#23

Bromochloromethane  
Concen: 0.333 ug/L  
RT: 7.05 min Scan# 883  
Delta R.T. -0.00 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 174.8 | 146.2 | 271.4 |
| 130     | 129.4 | 92.5  | 171.7 |
| 51      | 90.1  | 55.6  | 83.4# |





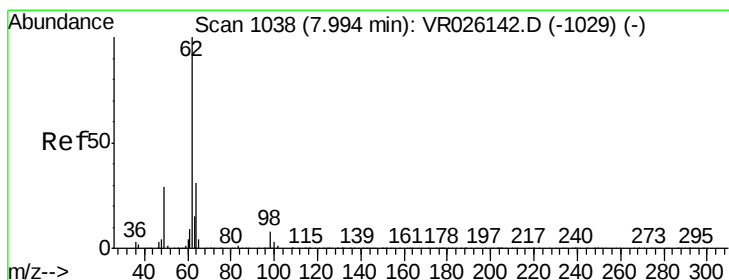
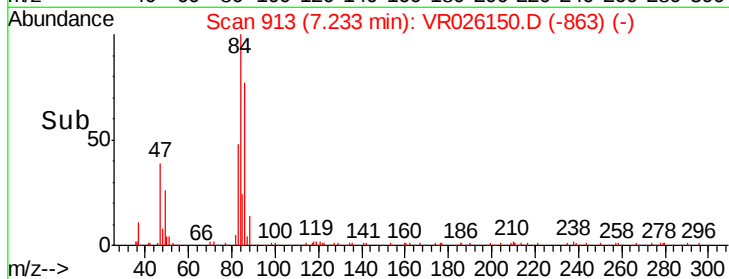
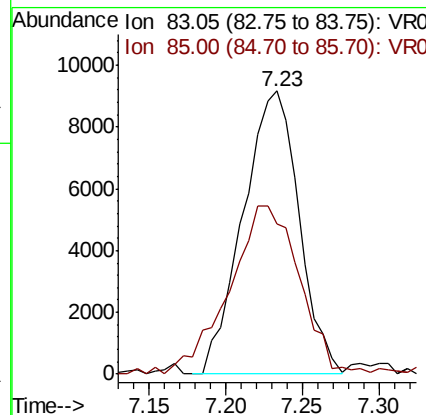
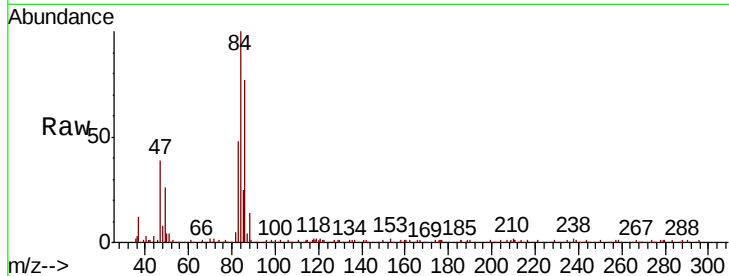
#25  
Chloroform  
Concen: 0.324 ug/L  
RT: 7.23 min Scan# 913  
Delta R.T. 0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampled :  
MDL

| Tot Ion   | 83   | Resp  | 23322 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 85        | 52.9 | 43.5  | 80.7  |

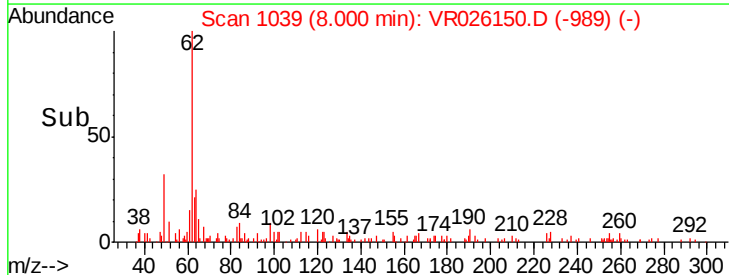
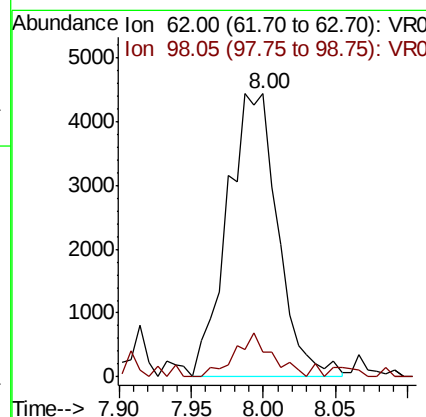
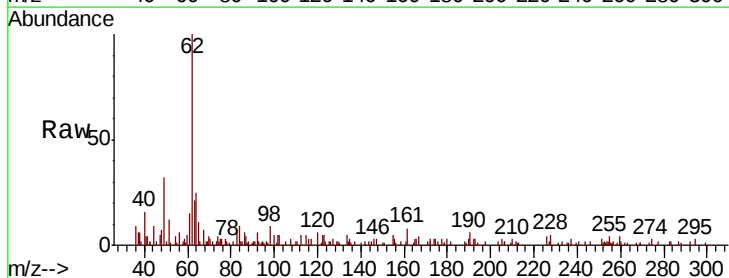
Manual Integrations  
APPROVED

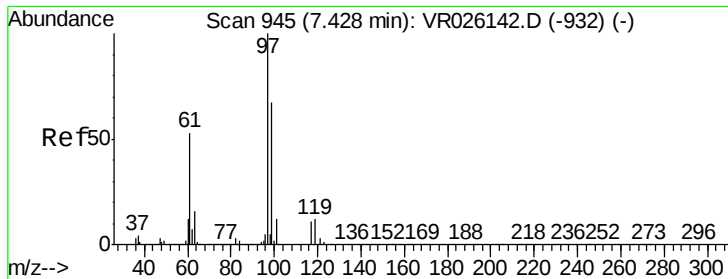
MMDadoda  
10/24/2018 12:17:13 PM



#27  
1,2-Dichloroethane  
Concen: 0.307 ug/L  
RT: 8.00 min Scan# 1039  
Delta R.T. 0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

| Tgt Ion   | 62  | Resp  | 10818 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 98        | 8.6 | 5.6   | 8.4#  |





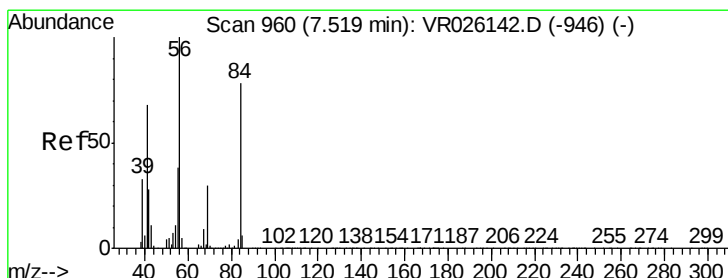
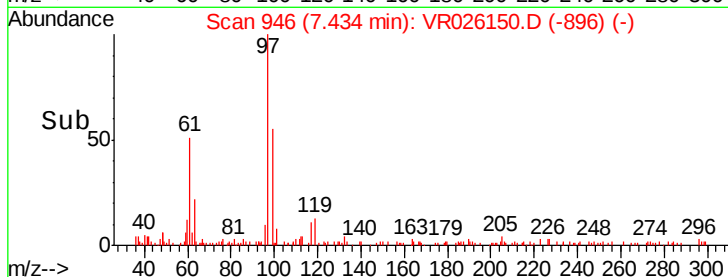
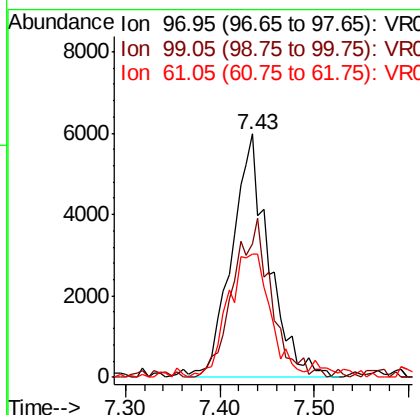
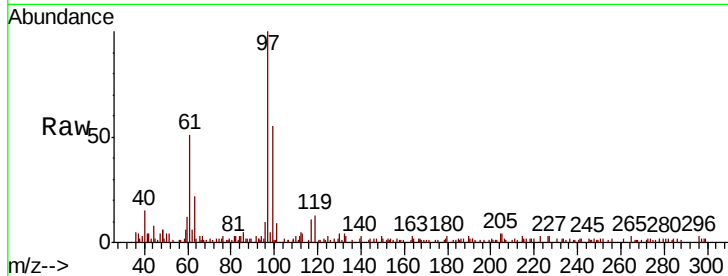
#29  
 1,1,1-Trichloroethane  
 Concen: 0.268 ug/L  
 RT: 7.43 min Scan# 946  
 Delta R.T. 0.01 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

Instrument :  
 MSVOA\_R  
 ClientSampled :  
 MDL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 16338 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 67.4  | 51.1  | 76.7  |
| 61       | 58.1  | 42.1  | 63.1  |

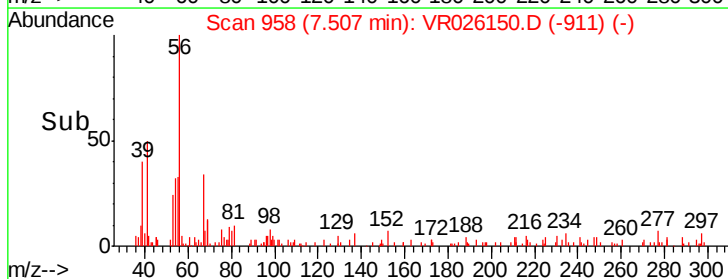
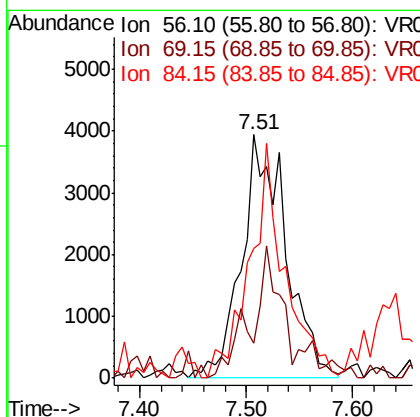
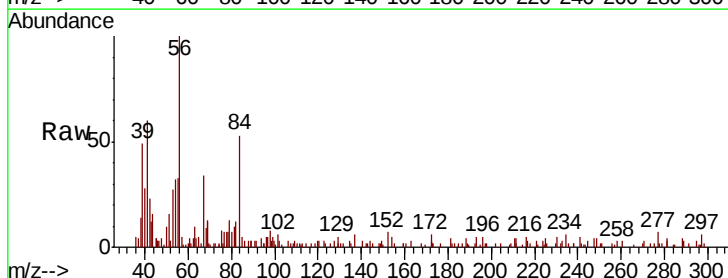
Manual Integrations  
 APPROVED

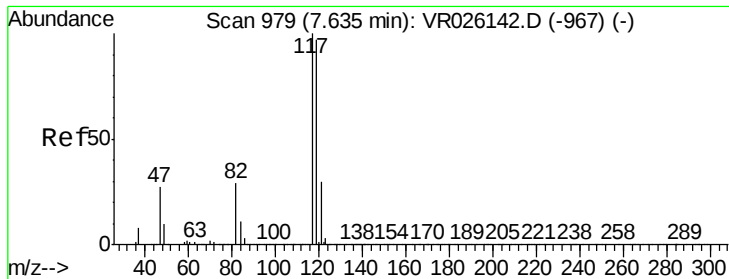
MMDadoda  
 10/24/2018 12:17:13 PM



#30  
 Cyclohexane  
 Concen: 0.188 ug/L  
 RT: 7.51 min Scan# 958  
 Delta R.T. -0.01 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 11516 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 22.1  | 23.8  | 35.8# |
| 84       | 75.2  | 62.2  | 93.4  |





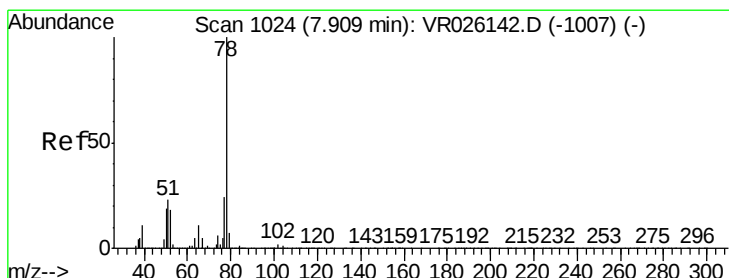
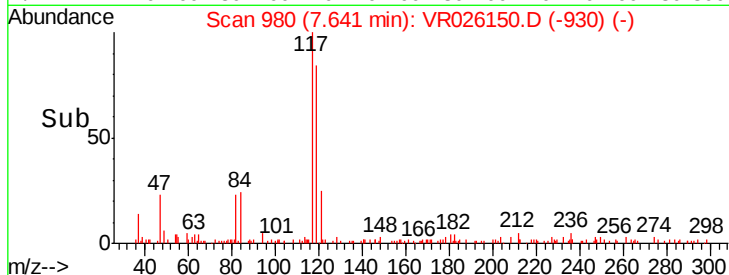
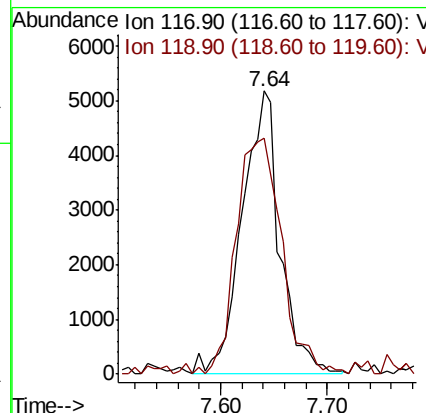
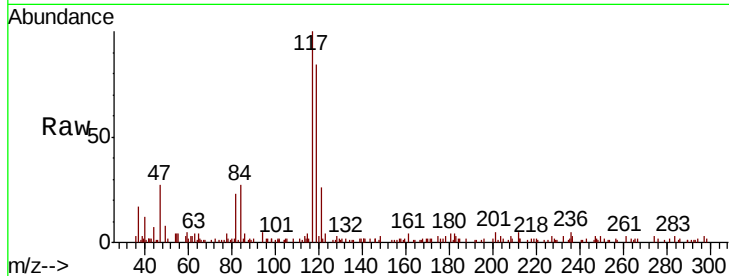
#31  
Carbon tetrachloride  
Concen: 0.232 ug/L  
RT: 7.64 min Scan# 980  
Delta R.T. 0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 99.9  | 74.2  | 111.2 |

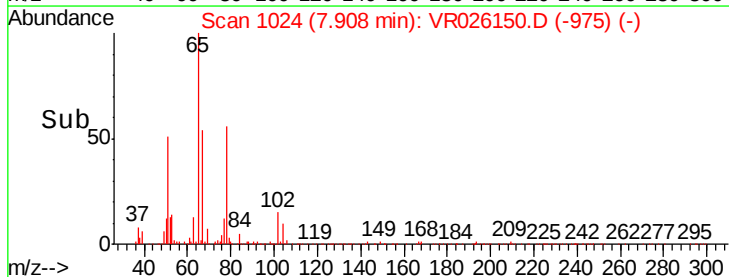
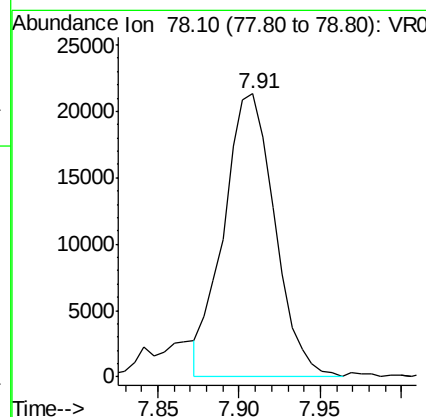
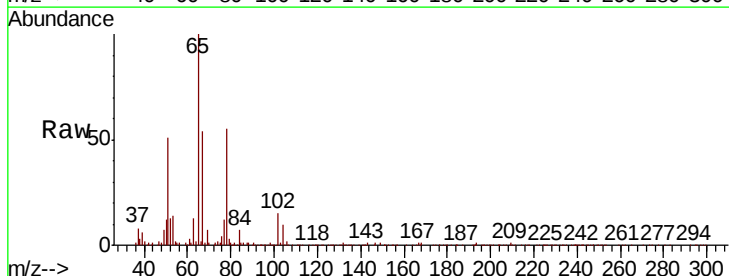
Manual Integrations  
APPROVED

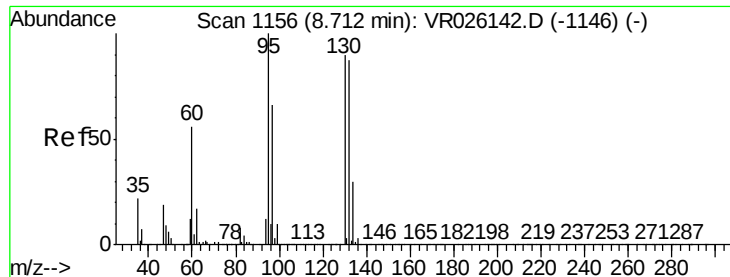
MMDadoda  
10/24/2018 12:17:13 PM



#33  
Benzene  
Concen: 0.278 ug/L m  
RT: 7.91 min Scan# 1024  
Delta R.T. -0.00 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Tgt Ion: 78 Resp: 46669





#34

Trichloroethene

Concen: 0.269 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

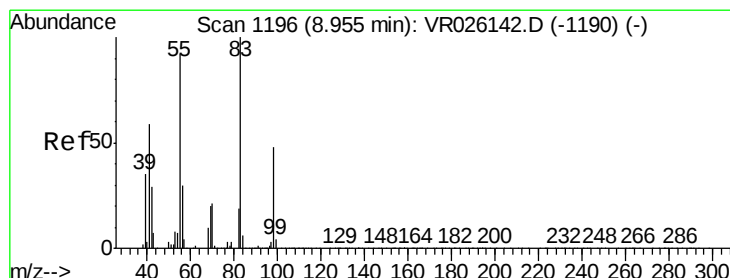
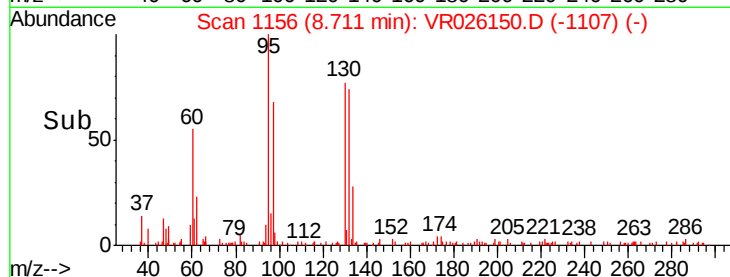
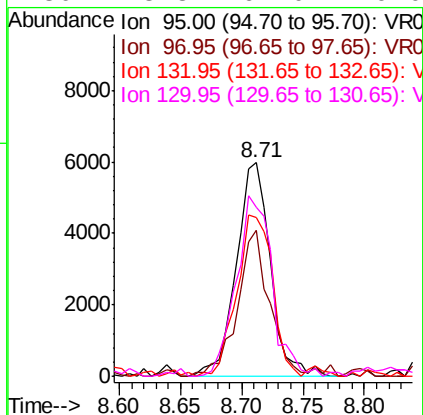
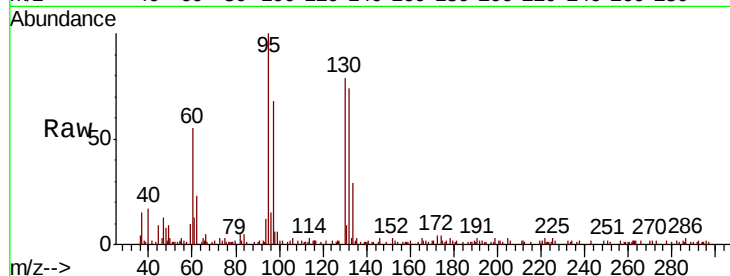
ClientSampleId :

MDL

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 95      | 100  |       | 11560 |       |       |
| 97      | 68.3 | 45.7  | 84.9  |       |       |
| 132     | 74.4 | 58.3  | 108.3 |       |       |
| 130     | 78.8 | 64.0  | 119.0 |       |       |

Manual Integrations  
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#35

Methylcyclohexane

Concen: 0.211 ug/L

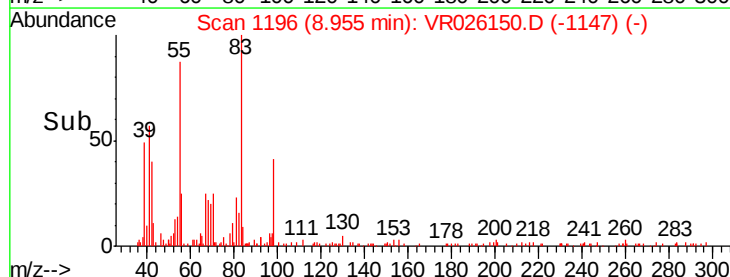
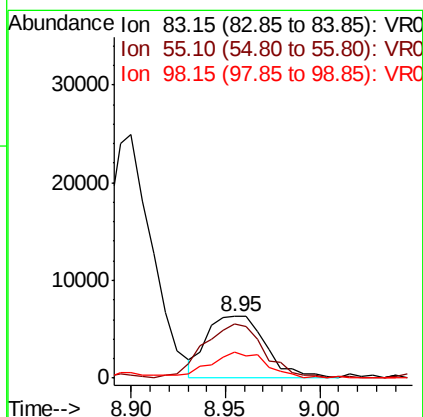
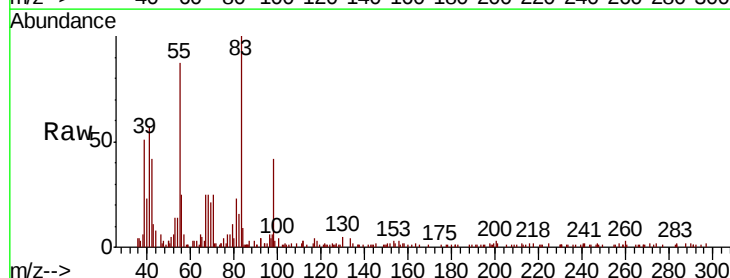
RT: 8.95 min Scan# 1196

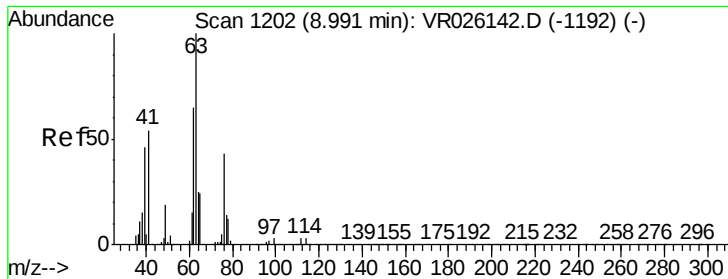
Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 83      | 100  |       | 13464 |       |       |
| 55      | 91.7 | 66.8  | 100.2 |       |       |
| 98      | 42.0 | 35.2  | 52.8  |       |       |





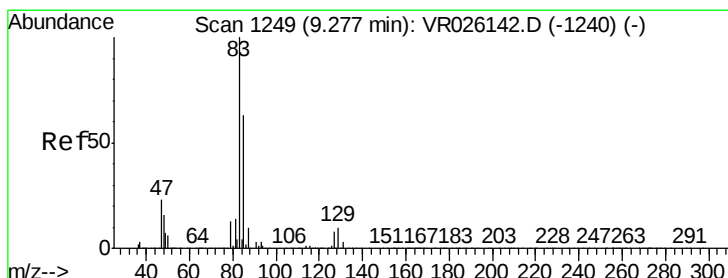
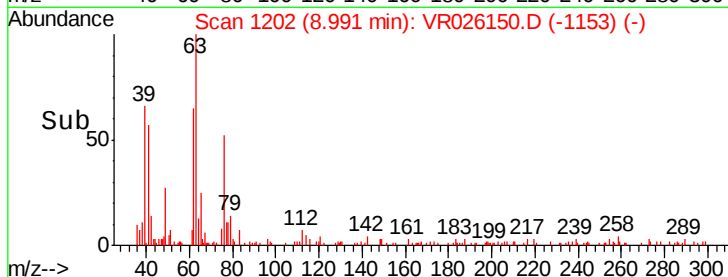
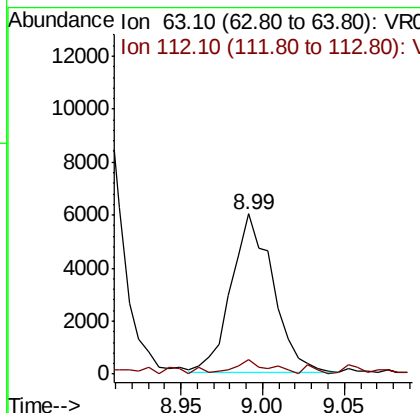
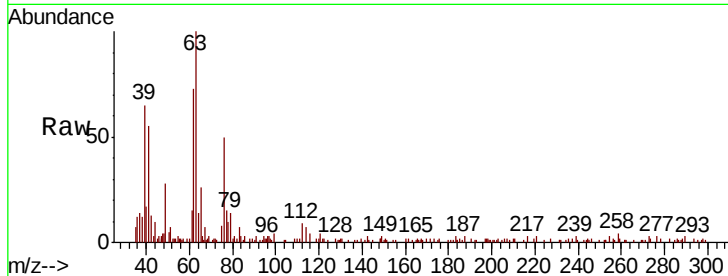
#37  
 1,2-Dichloropropane  
 Concen: 0.301 ug/L  
 RT: 8.99 min Scan# 1202  
 Delta R.T. -0.00 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 MDL

Tot Ion: 63 Resp: 10646  
 Ion Ratio Lower Upper  
 63 100  
 112 7.0 2.7 4.1#

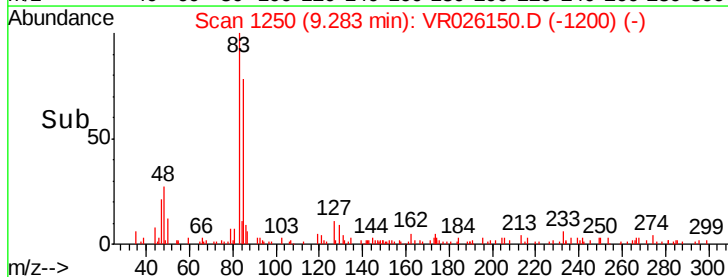
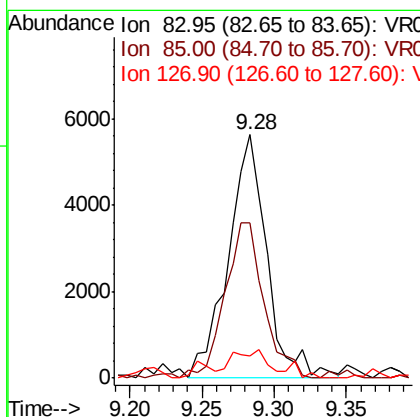
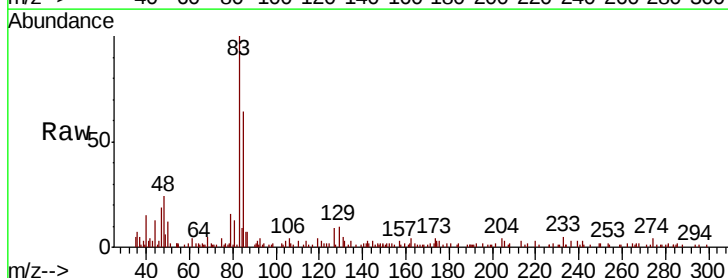
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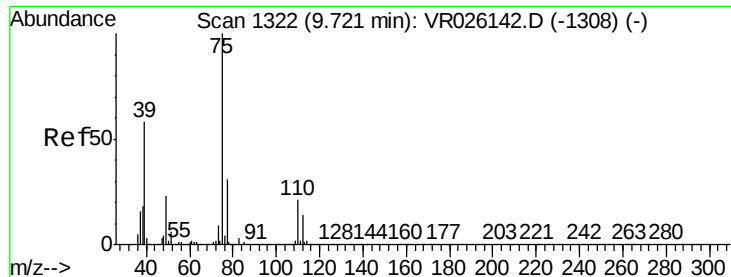
MMDadoda  
 10/24/2018 12:17:13 PM



#38  
 Bromodichloromethane  
 Concen: 0.278 ug/L  
 RT: 9.28 min Scan# 1250  
 Delta R.T. 0.01 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

Tgt Ion: 83 Resp: 10569  
 Ion Ratio Lower Upper  
 83 100  
 85 63.7 43.5 80.7  
 127 10.8 7.0 10.6#





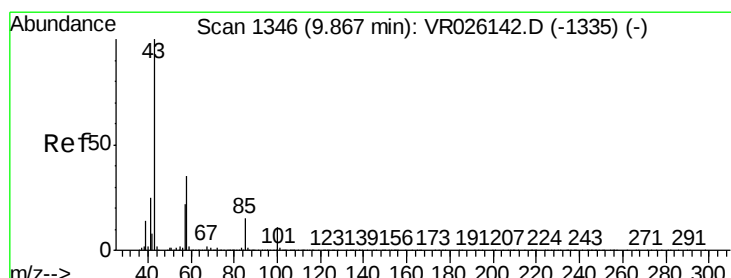
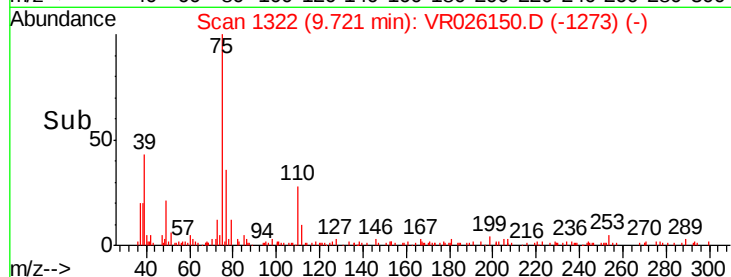
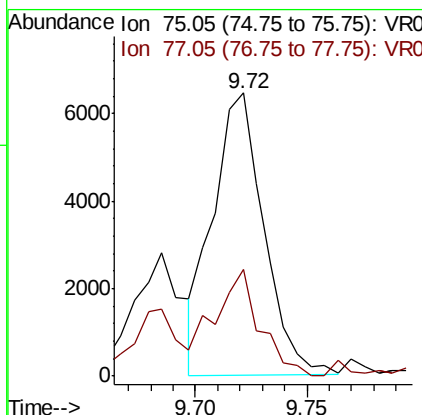
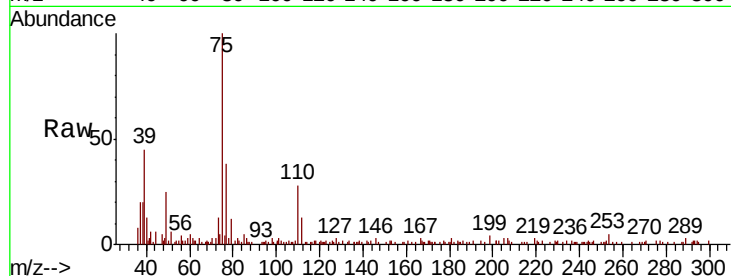
#39  
 cis-1,3-Dichloropropene  
 Concen: 0.253 ug/L  
 RT: 9.72 min Scan# 1322  
 Delta R.T. -0.00 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

Instrument :  
 MSVOA\_R  
 ClientSampled :  
 MDL

Tot Ion: 75 Resp: 10252  
 Ion Ratio Lower Upper  
 75 100  
 77 37.6 22.7 42.1

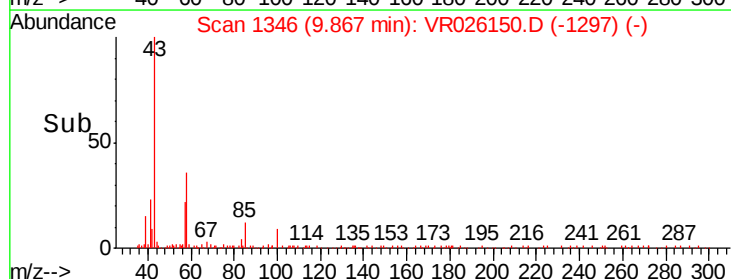
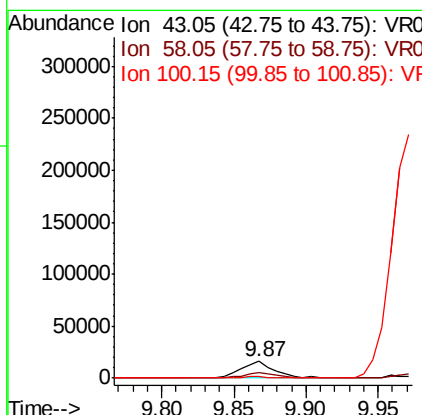
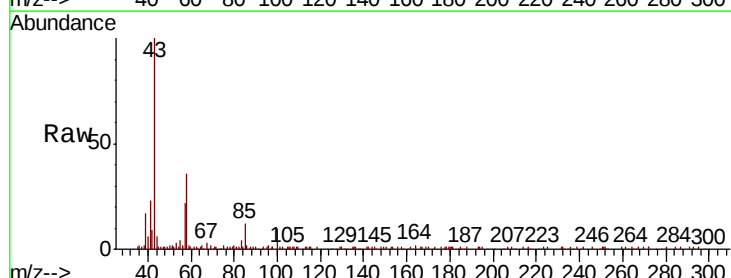
Manual Integrations  
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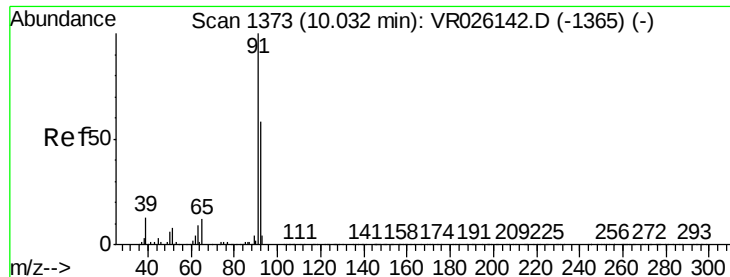
MMDadoda  
 10/24/2018 12:17:13 PM



#40  
 4-Methyl-2-pentanone  
 Concen: 2.410 ug/L  
 RT: 9.87 min Scan# 1346  
 Delta R.T. -0.00 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

Tgt Ion: 43 Resp: 26031  
 Ion Ratio Lower Upper  
 43 100  
 58 35.1 28.1 42.1  
 100 0.0 9.3 13.9#





#42

Toluene

Concen: 0.263 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampleId :

MDL

Tot Ion: 91 Resp: 46456

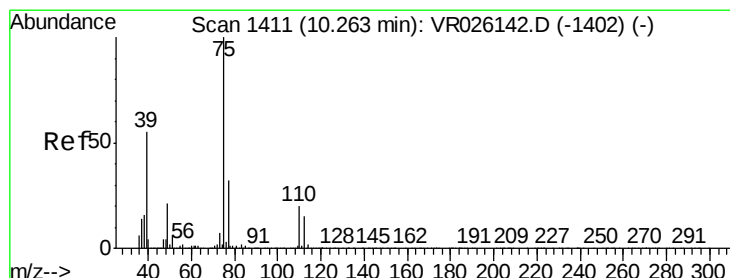
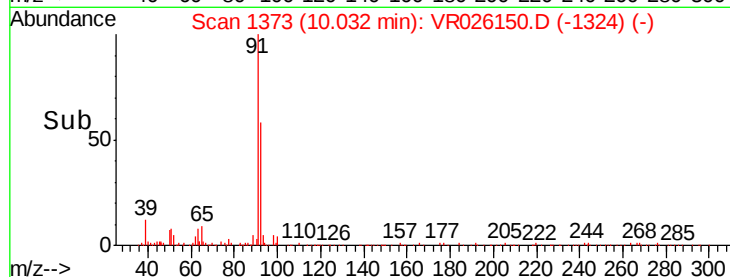
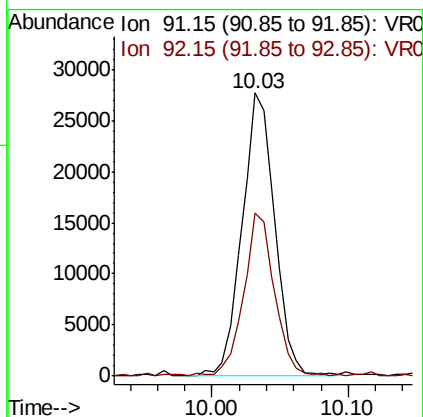
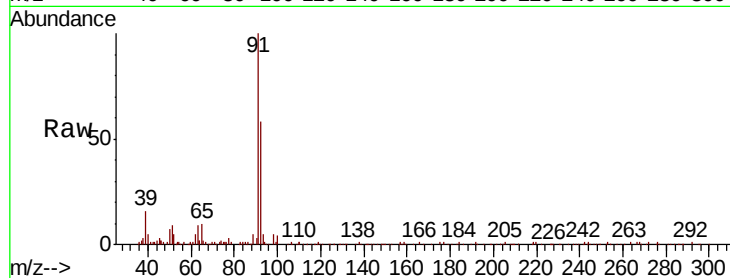
Ion Ratio Lower Upper

91 100

92 57.8 40.8 75.8

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#44

trans-1,3-Dichloropropene

Concen: 0.342 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR026150.D

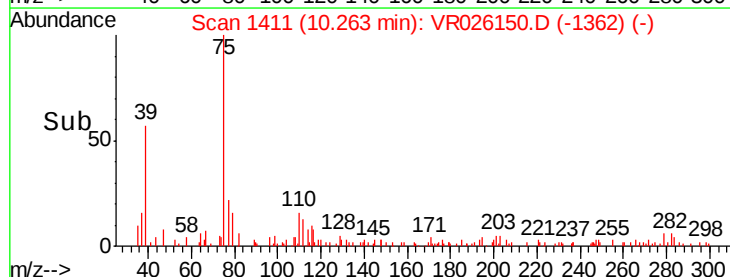
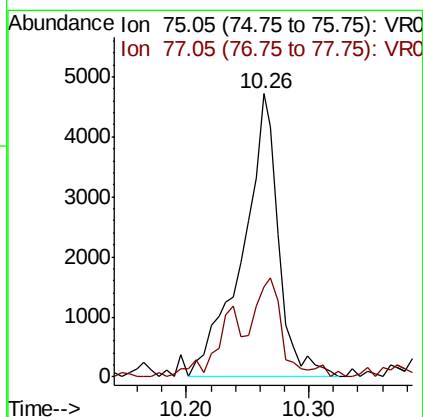
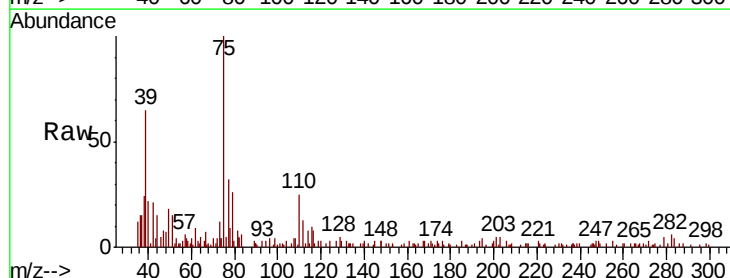
Acq: 19 Oct 2018 15:10

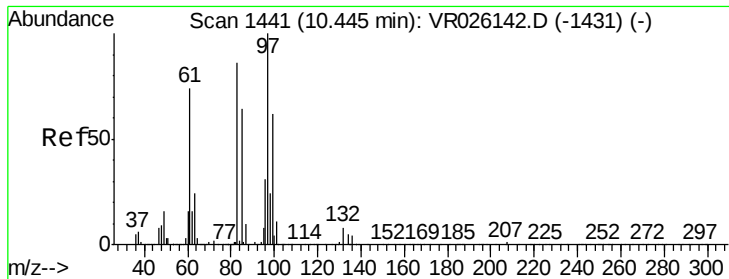
Tgt Ion: 75 Resp: 9674

Ion Ratio Lower Upper

75 100

77 32.0 24.1 44.7





#45

1,1,2-Trichloroethane

Concen: 0.332 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

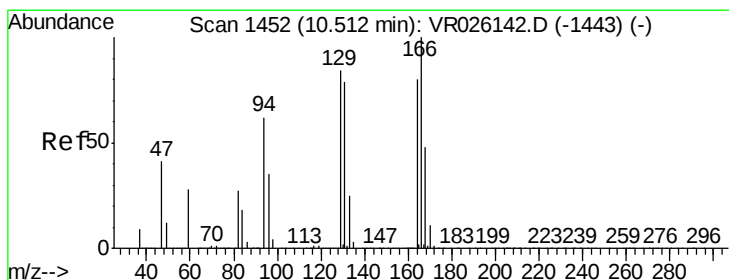
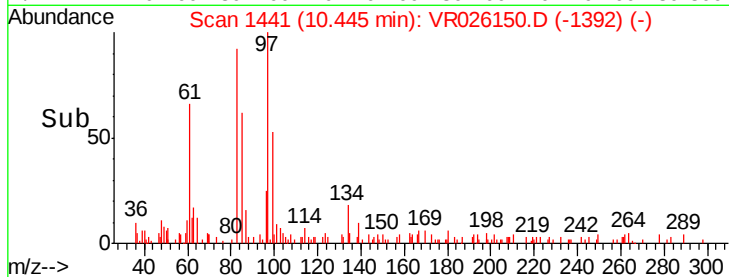
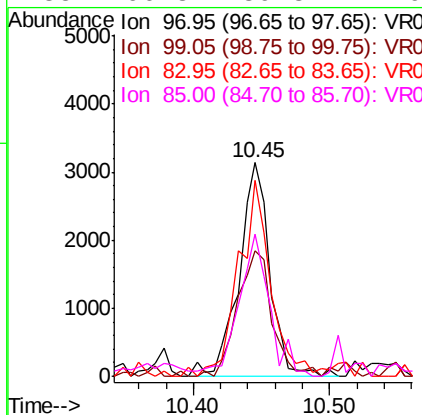
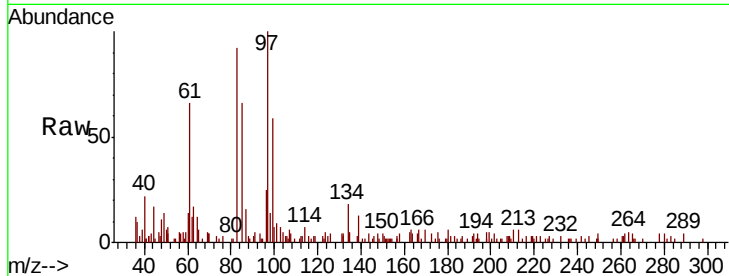
ClientSampled :

MDL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 4954  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 58.9  | 42.8  | 79.4  |
| 83       | 91.7  | 61.9  | 114.9 |
| 85       | 66.3  | 39.3  | 72.9  |

Manual Integrations  
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#47

Tetrachloroethene

Concen: 0.251 ug/L

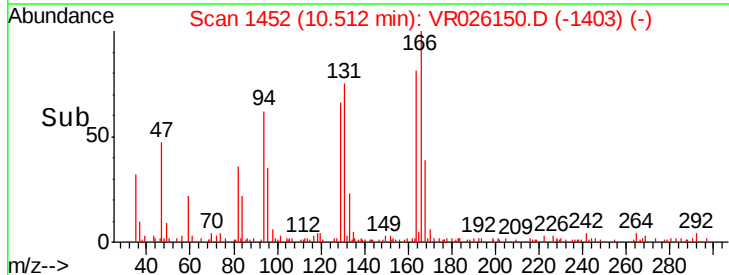
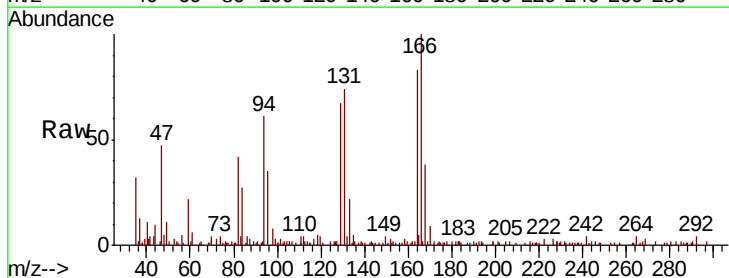
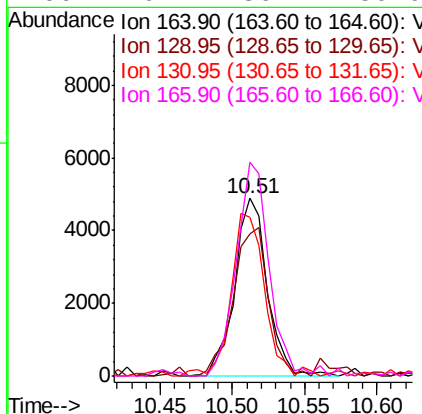
RT: 10.51 min Scan# 1452

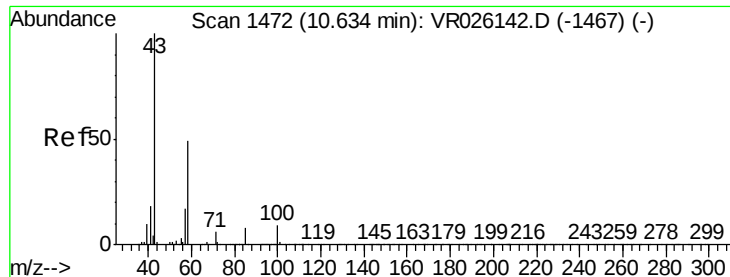
Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 7686  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 80.2  | 70.3  | 130.5 |
| 131      | 89.1  | 67.3  | 125.1 |
| 166      | 120.2 | 86.1  | 159.9 |





#48

2-Hexanone

Concen: 3.040 ug/L

RT: 10.63 min Scan# 1472

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

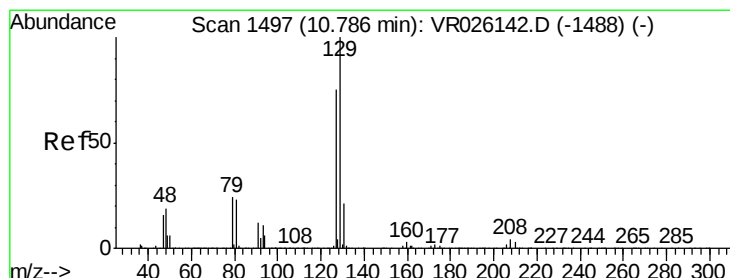
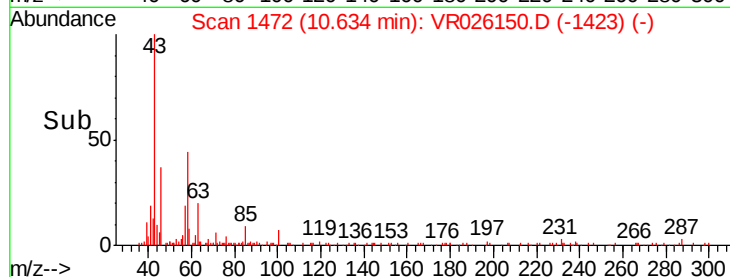
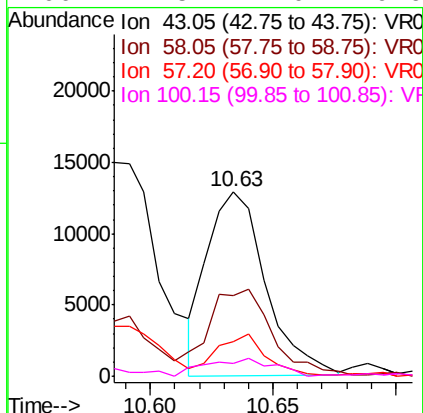
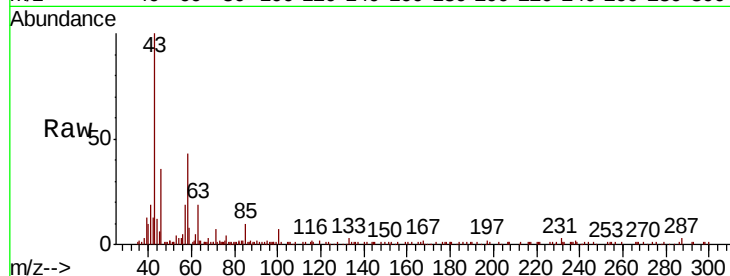
ClientSampleId :

MDL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 21446 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 52.4  | 39.6  | 59.4  |
| 57       | 18.9  | 14.0  | 21.0  |
| 100      | 11.5  | 7.0   | 10.6# |

Manual Integrations  
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#49

Dibromochloromethane

Concen: 0.269 ug/L

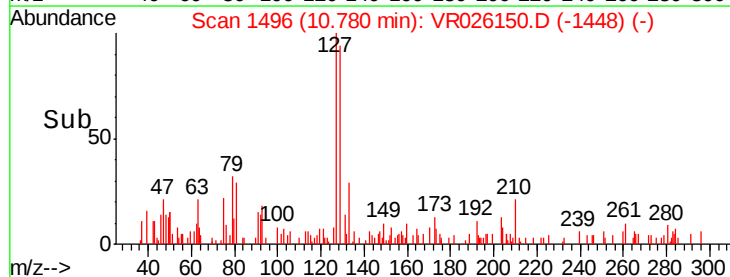
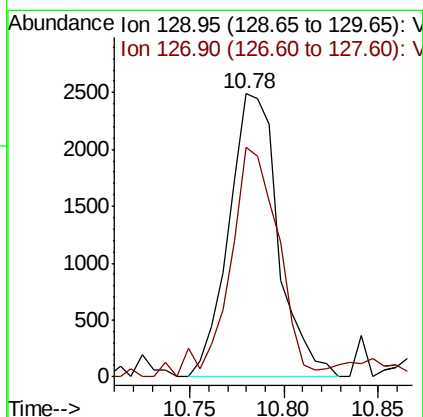
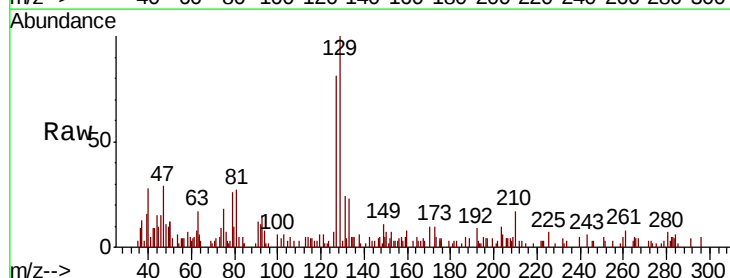
RT: 10.78 min Scan# 1496

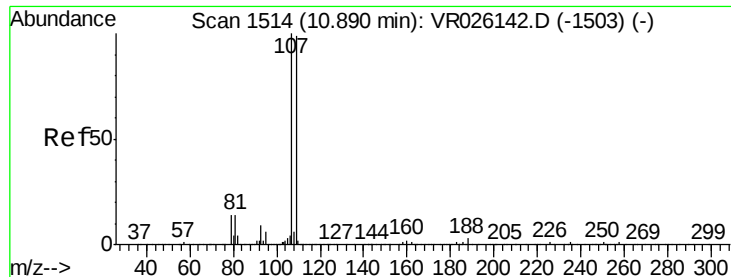
Delta R.T. -0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 4521  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 81.0  | 55.0  | 102.2 |





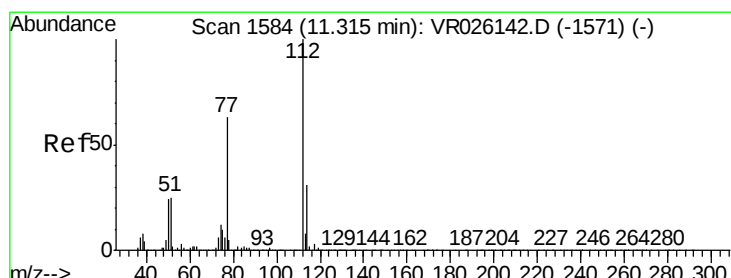
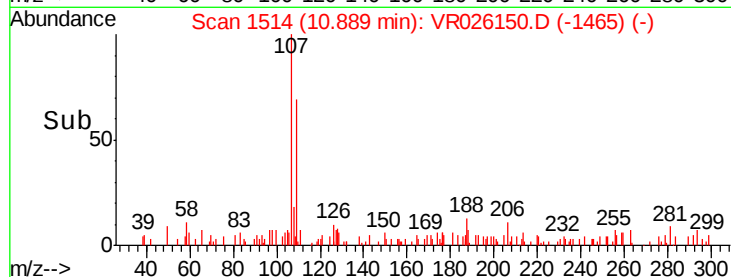
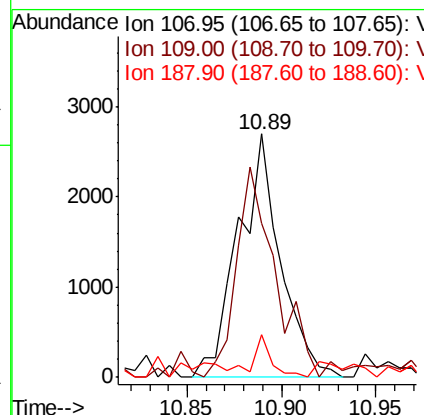
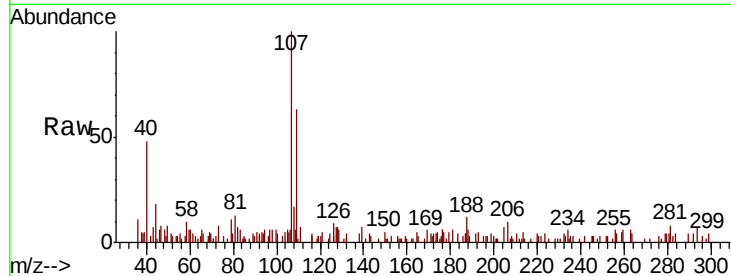
#50  
1,2-Dibromoethane  
Concen: 0.325 ug/L  
RT: 10.89 min Scan# 1514  
Delta R.T. -0.00 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   | 4184 |       |       |
| 109     | 63.1  | 58.7 | 109.1 |       |
| 188     | 17.7  | 2.9  | 4.3#  |       |

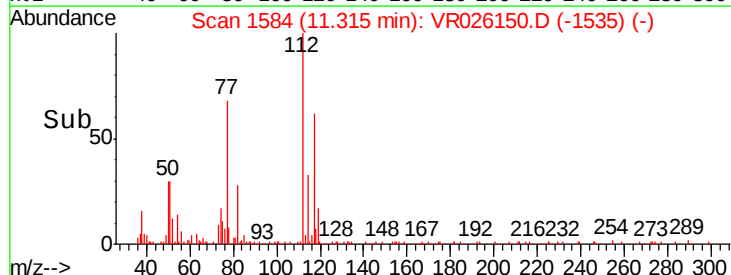
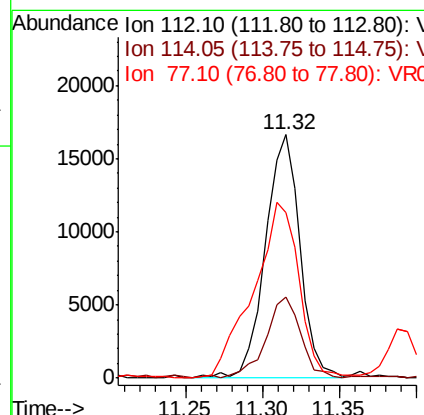
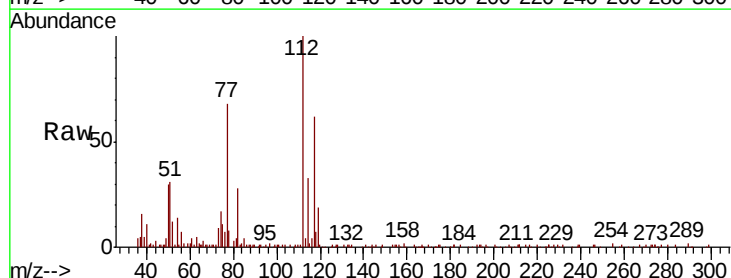
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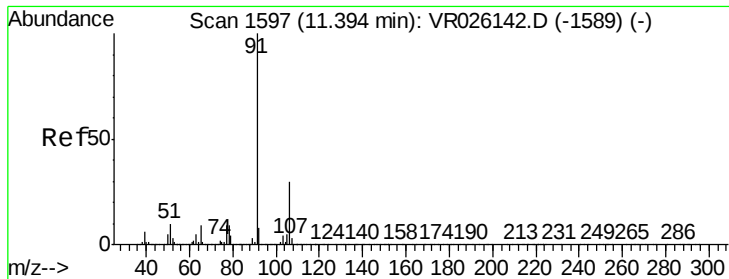
MMDadoda  
10/24/2018 12:17:13 PM



#51  
Chlorobenzene  
Concen: 0.269 ug/L  
RT: 11.32 min Scan# 1584  
Delta R.T. -0.00 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 26308 |       |       |
| 114     | 33.2  | 22.8  | 42.4  |       |
| 77      | 67.9  | 51.5  | 77.3  |       |





#52

Ethylbenzene

Concen: 0.212 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampled :

MDL

Tot Ion: 91 Resp: 43172

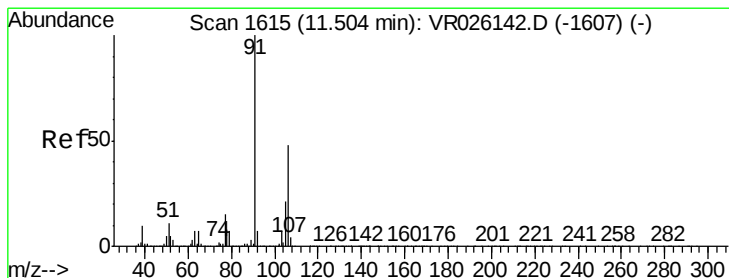
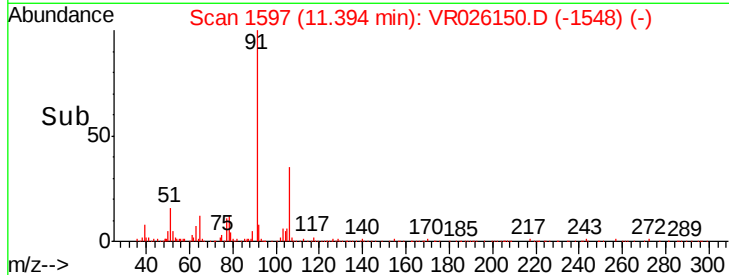
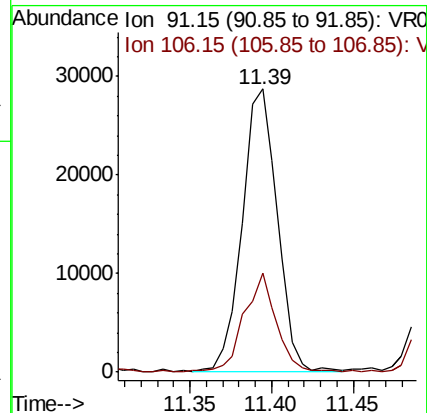
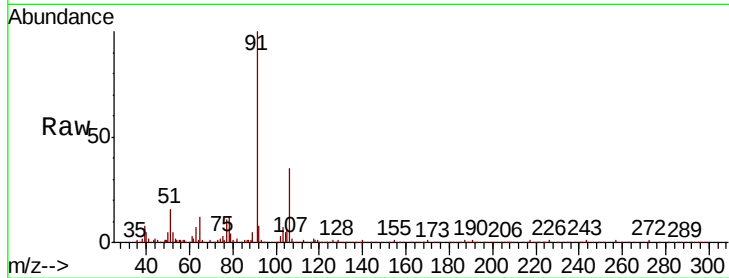
Ion Ratio Lower Upper

91 100

106 35.1 21.2 39.4

Manual Integrations  
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MMDadoda  
10/24/2018 12:17:13 PM



#53

m,p-Xylene

Concen: 0.191 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR026150.D

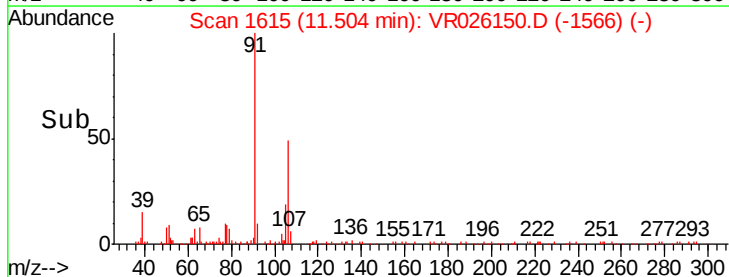
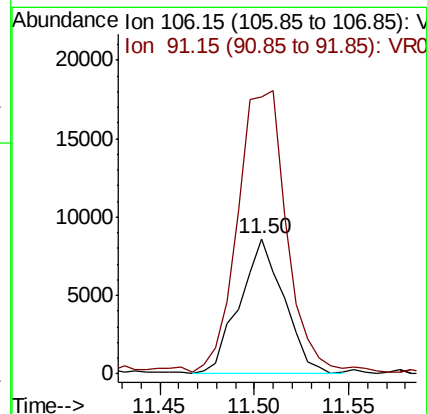
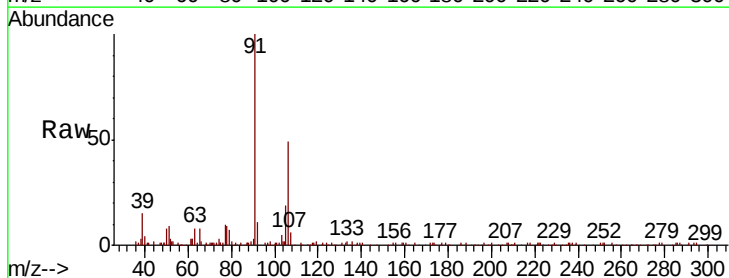
Acq: 19 Oct 2018 15:10

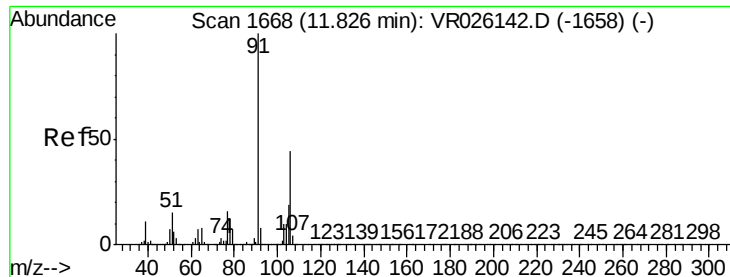
Tgt Ion: 106 Resp: 14141

Ion Ratio Lower Upper

106 100

91 205.0 145.3 269.8





#54

o-Xylene

Concen: 0.178 ug/L

RT: 11.83 min Scan# 1668

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampled :

MDL

Tot Ion:106 Resp: 12073

Ion Ratio Lower Upper

106 100

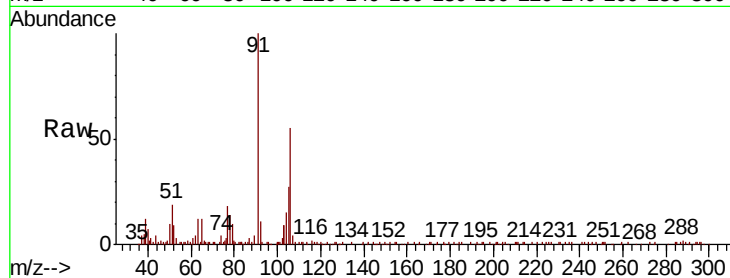
91 181.3 155.8 289.3

Manual Integrations

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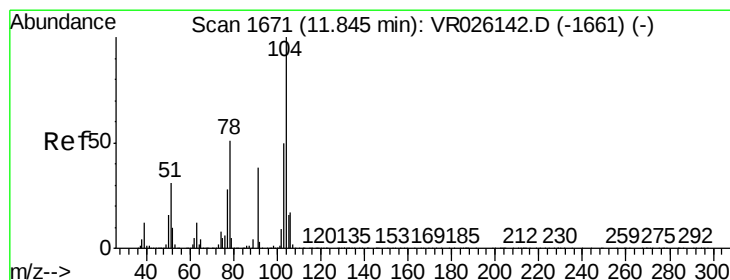
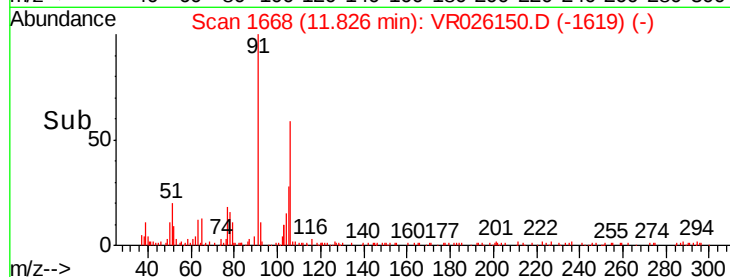
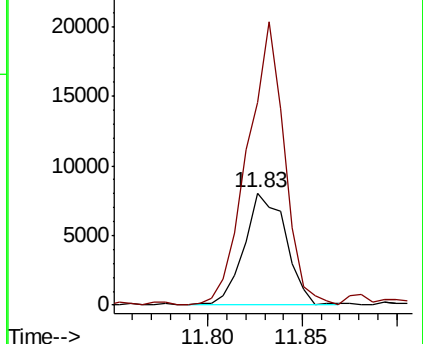
MMDadoda

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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 0.179 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VR026150.D

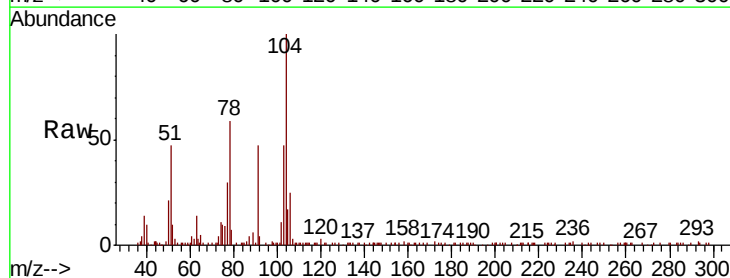
Acq: 19 Oct 2018 15:10

Tgt Ion:104 Resp: 18753

Ion Ratio Lower Upper

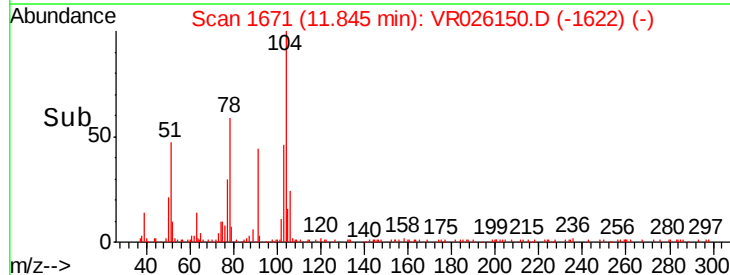
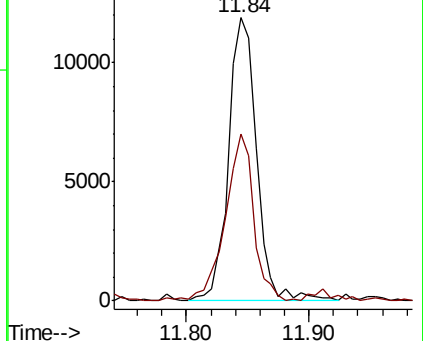
104 100

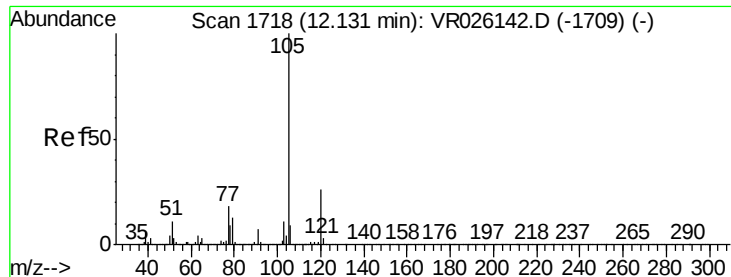
78 58.8 34.7 64.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0





#56

Isopropylbenzene

Concen: 0.165 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

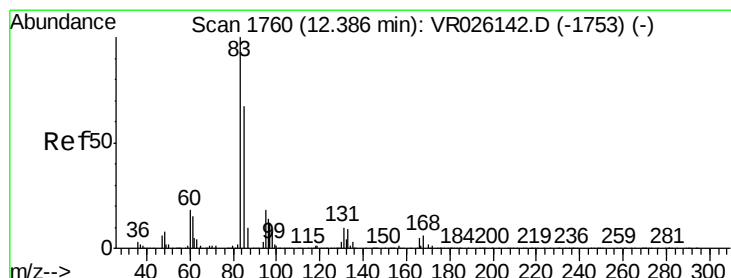
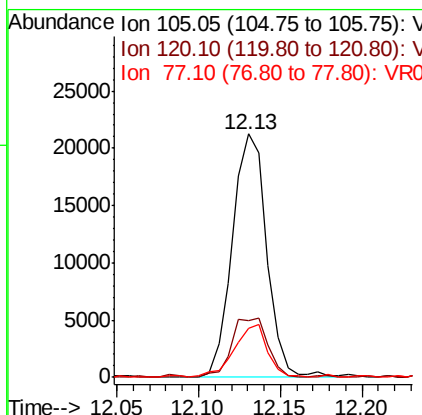
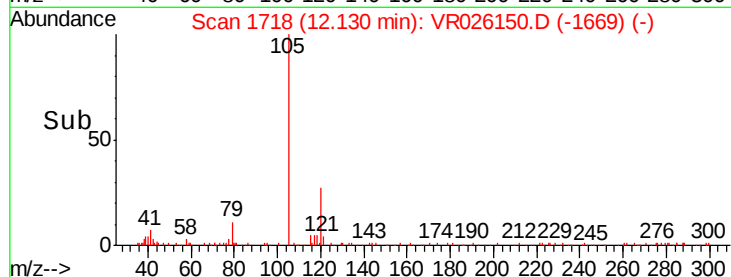
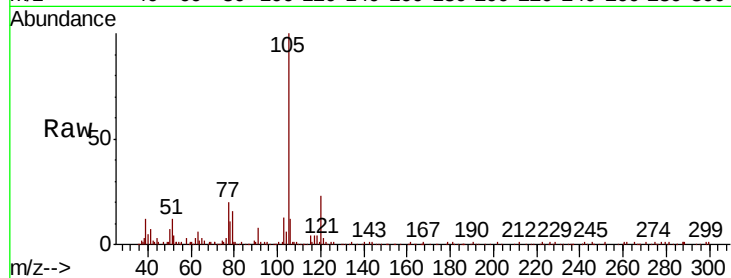
ClientSampled :

MDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 31096 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 25.7  | 21.0  | 31.4  |
| 77        | 21.4  | 14.6  | 21.8  |

Manual Integrations  
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#58

1,1,2,2-Tetrachloroethane

Concen: 0.289 ug/L

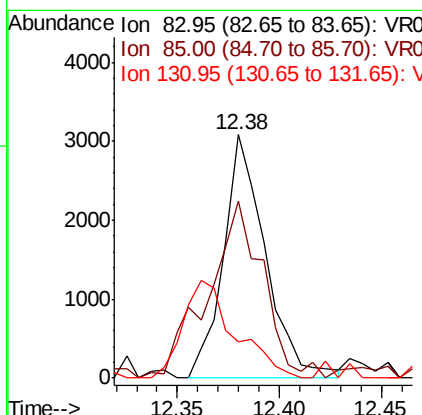
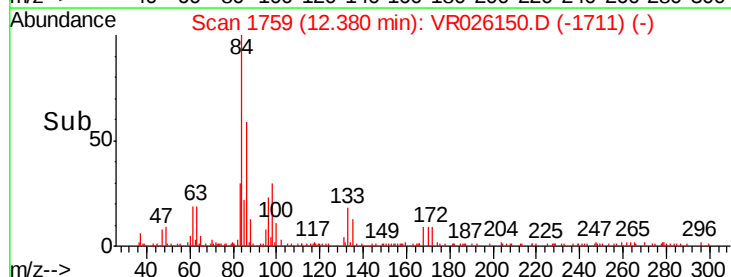
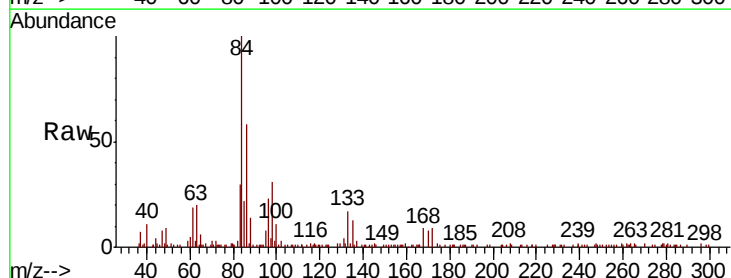
RT: 12.38 min Scan# 1759

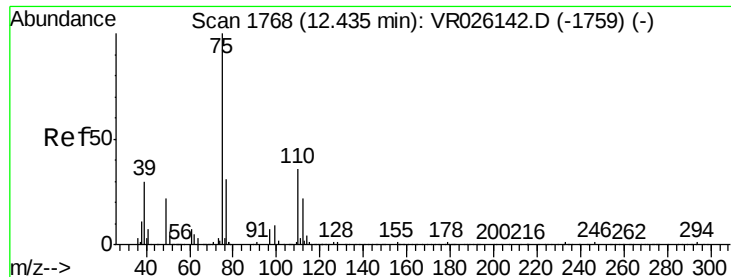
Delta R.T. -0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 4381  |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 72.7  | 44.0  | 81.8  |
| 131       | 14.7  | 8.0   | 12.0# |





#59

1,2,3-Trichloropropane

Concen: 0.281 ug/L

RT: 12.43 min Scan# 1767

Delta R.T. -0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

ClientSampleId :

MDL

Tot Ion: 75 Resp: 3133

Ion Ratio Lower Upper

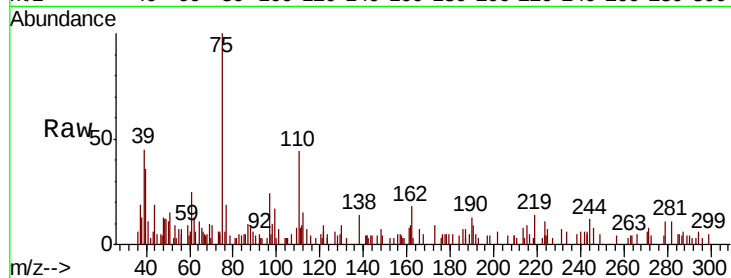
75 100

77 24.0 26.2 39.2#

Manual Integrations  
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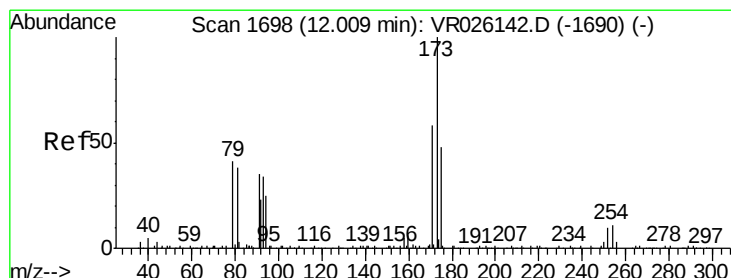
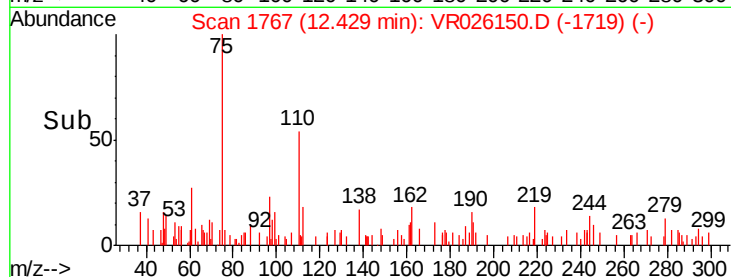
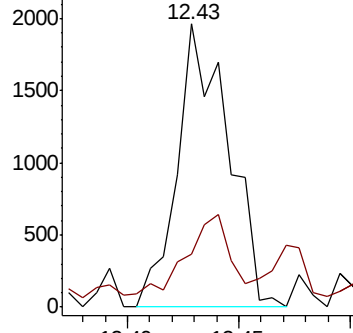
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Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0



#61

Bromoform

Concen: 0.311 ug/L

RT: 12.00 min Scan# 1697

Delta R.T. -0.01 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

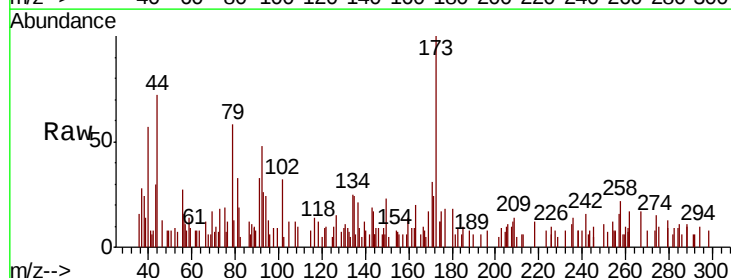
Tgt Ion: 173 Resp: 1570

Ion Ratio Lower Upper

173 100

175 28.6 39.0 58.4#

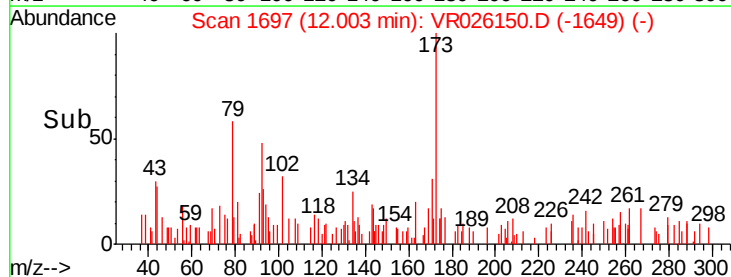
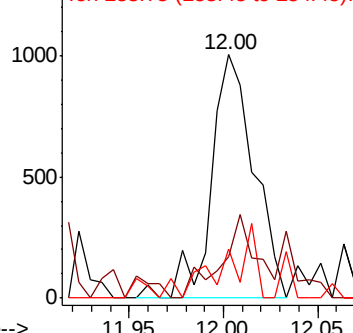
254 13.4 8.1 12.1#

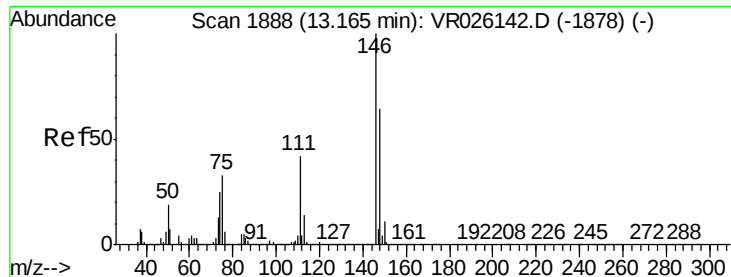


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 0.233 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

Instrument :

MSVOA\_R

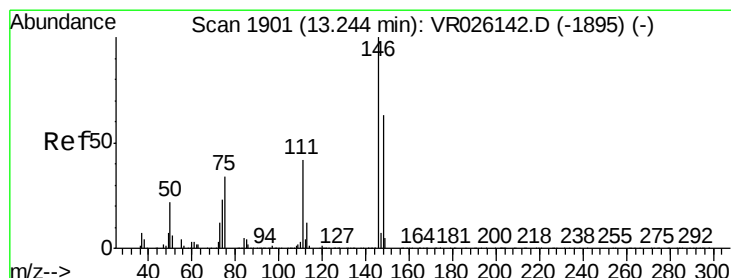
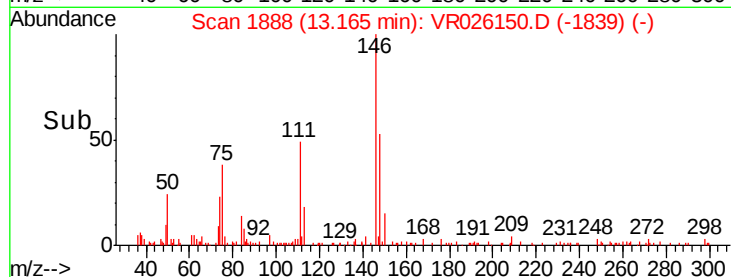
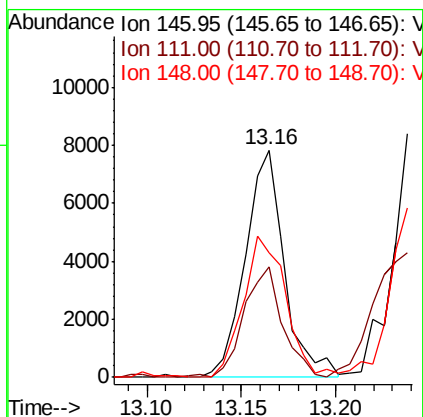
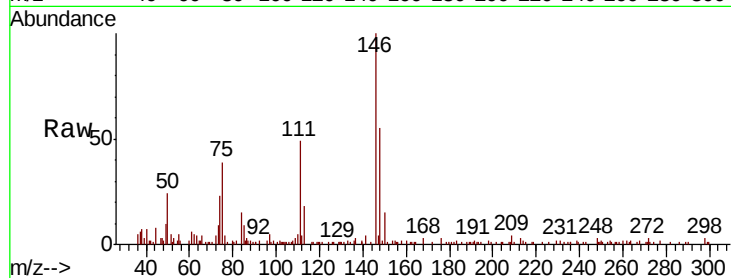
ClientSampled :

MDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 11222 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 48.8  | 32.1  | 59.7  |
| 148       | 56.3  | 43.8  | 81.3  |

Manual Integrations  
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#63

1,4-Dichlorobenzene

Concen: 0.285 ug/L

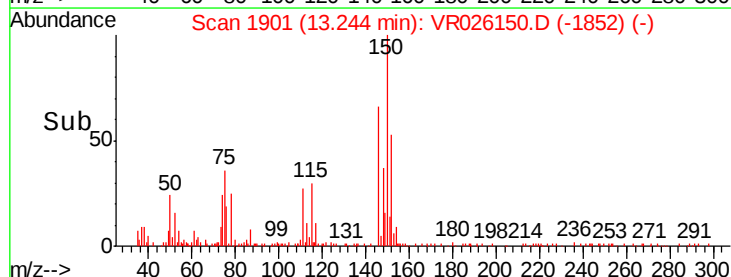
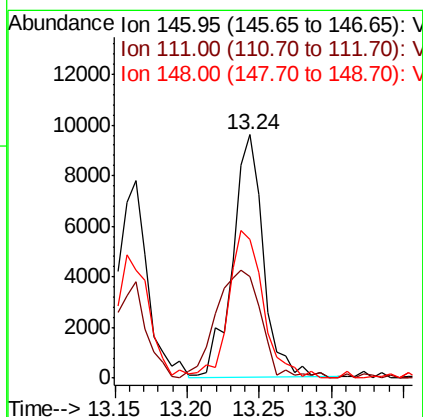
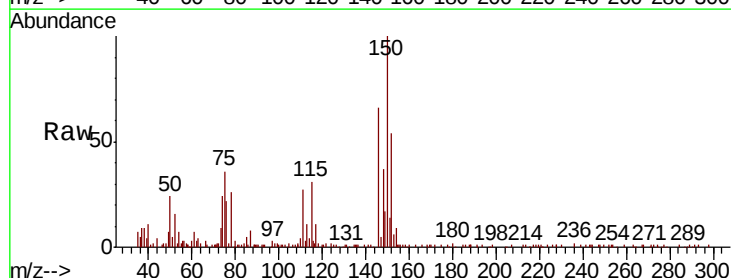
RT: 13.24 min Scan# 1901

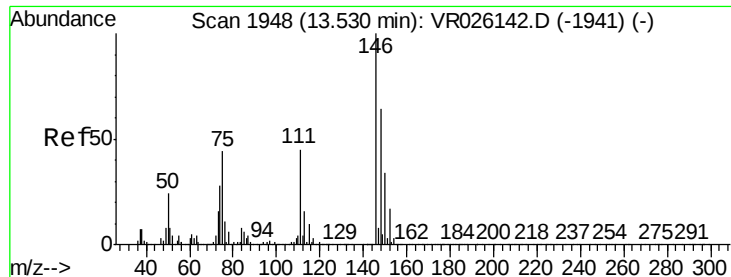
Delta R.T. -0.00 min

Lab File: VR026150.D

Acq: 19 Oct 2018 15:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 14204 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 41.6  | 32.6  | 60.6  |
| 148       | 56.8  | 46.7  | 86.7  |





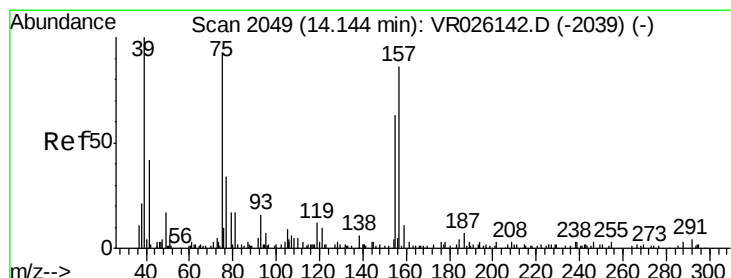
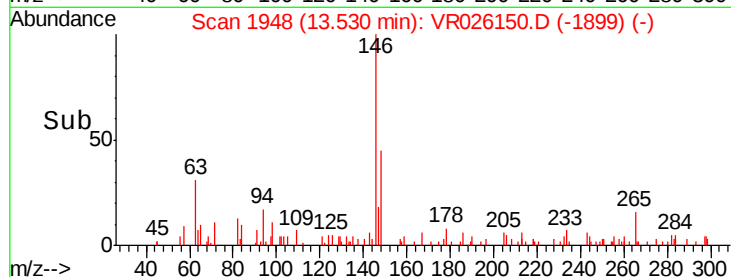
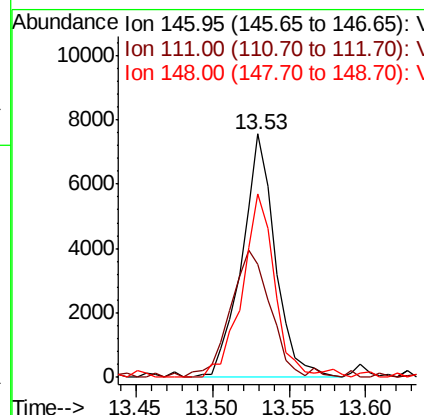
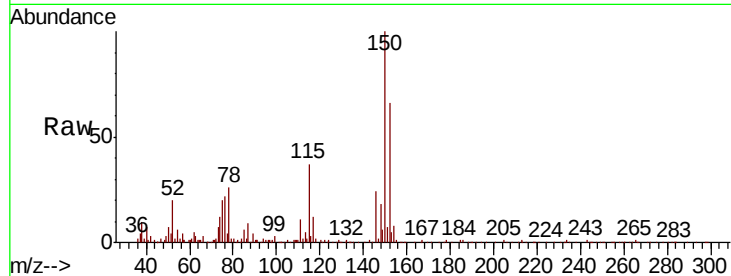
#65  
1,2-Dichlorobenzene  
Concen: 0.294 ug/L  
RT: 13.53 min Scan# 1948  
Delta R.T. -0.00 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampled :  
MDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.3  | 35.2  | 52.8  |
| 148     | 75.2  | 51.2  | 76.8  |

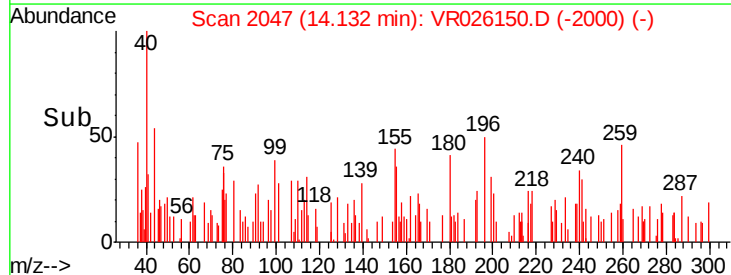
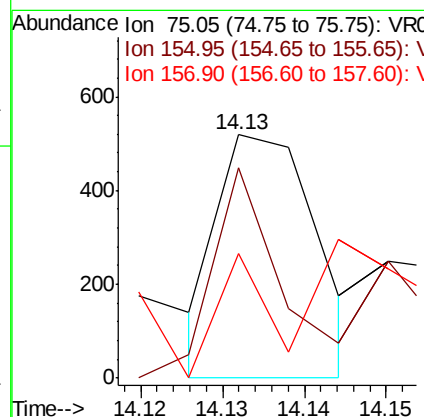
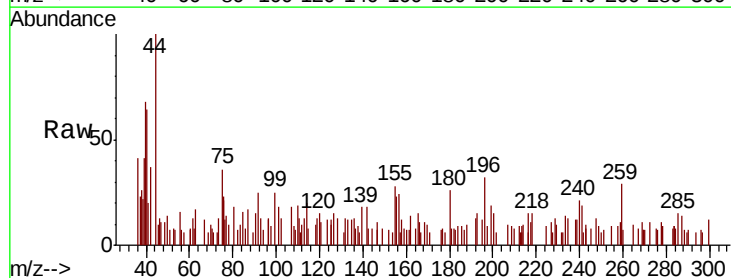
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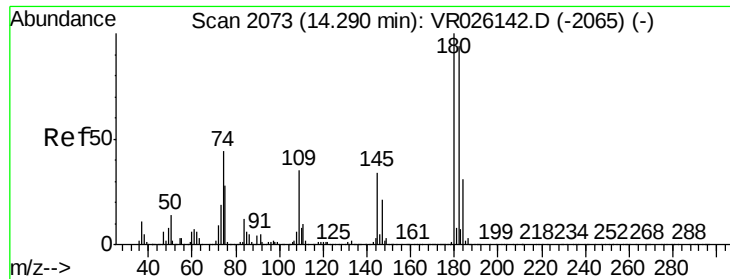
MMDadoda  
10/24/2018 12:17:13 PM



#66  
1,2-Dibromo-3-chloropropane  
Concen: 0.275 ug/L m  
RT: 14.13 min Scan# 2047  
Delta R.T. -0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 78.2  | 40.9  | 61.3#  |
| 157     | 66.1  | 67.3  | 100.9# |





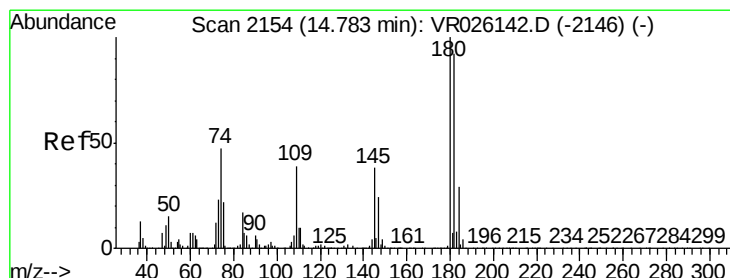
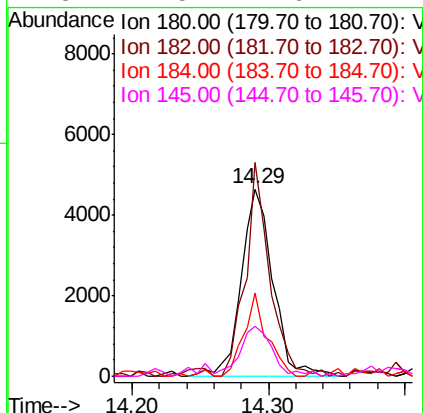
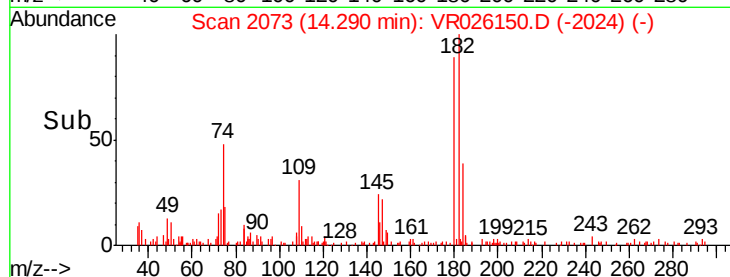
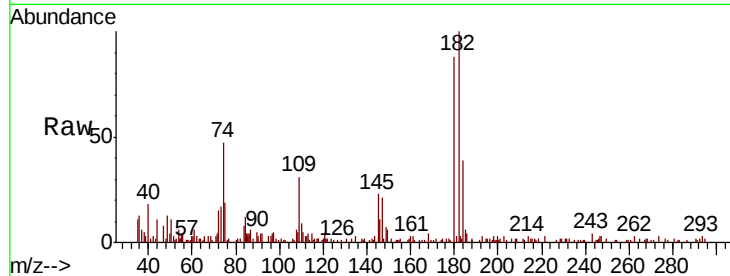
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.256 ug/L  
 RT: 14.29 min Scan# 2073  
 Delta R.T. -0.00 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 MDL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   | 7534 |       |       |
| 182     | 87.8  |      | 77.5  | 116.3 |
| 184     | 32.6  |      | 25.0  | 37.4  |
| 145     | 27.5  |      | 27.6  | 41.4  |

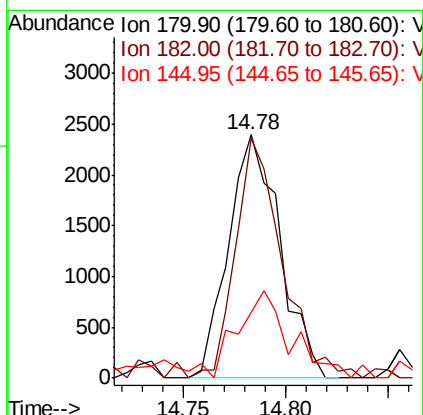
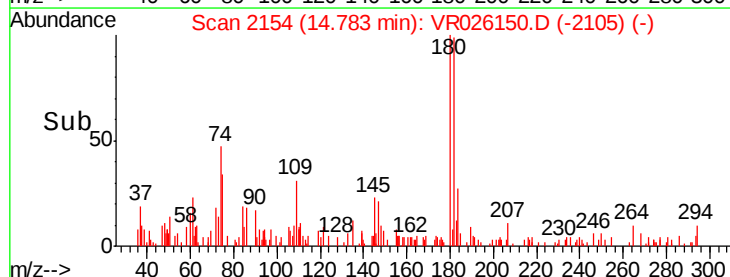
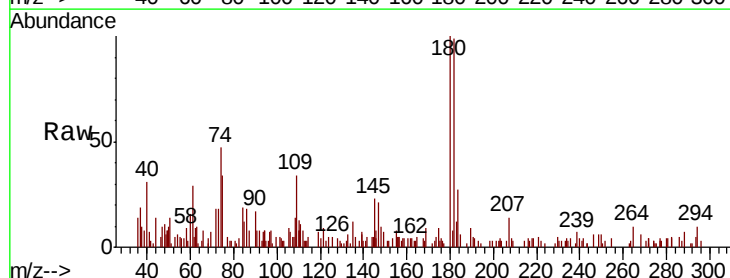
Manual Integrations  
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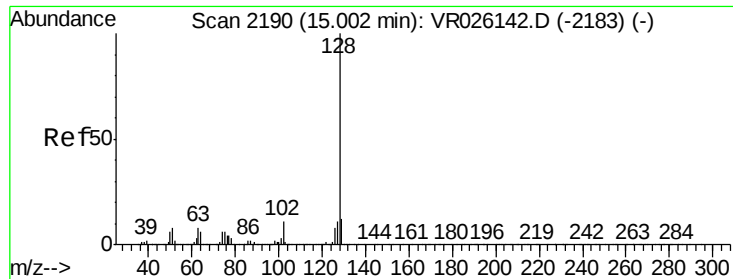
MMDadoda  
 10/24/2018 12:17:13 PM



#68  
 1,2,4-trichlorobenzene  
 Concen: 0.244 ug/L  
 RT: 14.78 min Scan# 2154  
 Delta R.T. -0.00 min  
 Lab File: VR026150.D  
 Acq: 19 Oct 2018 15:10

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   | 4189 |       |       |
| 182     | 88.6  |      | 76.1  | 114.1 |
| 145     | 38.7  |      | 28.2  | 42.4  |





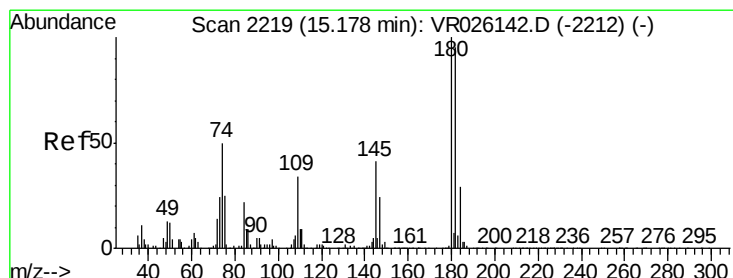
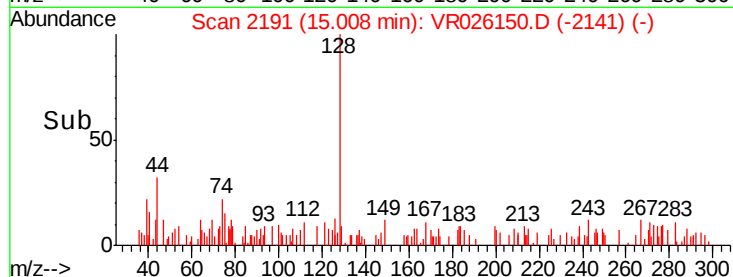
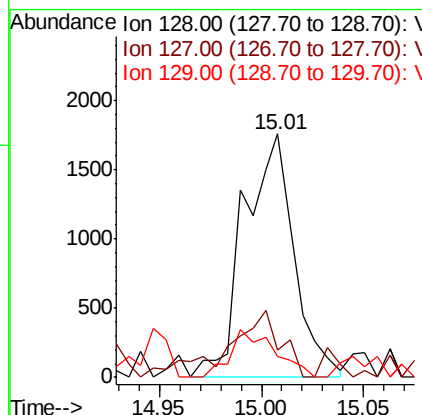
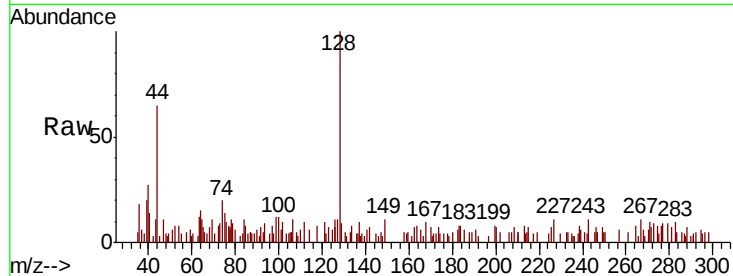
#69  
Naphthalene  
Concen: 0.179 ug/L  
RT: 15.01 min Scan# 2191  
Delta R.T. 0.01 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   | 2987 |       |       |
| 127     | 29.7  |      | 11.0  | 16.6# |
| 129     | 17.4  |      | 9.1   | 13.7# |

Manual Integrations  
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#70  
1,2,3-Trichlorobenzene  
Concen: 0.279 ug/L  
RT: 15.18 min Scan# 2219  
Delta R.T. -0.00 min  
Lab File: VR026150.D  
Acq: 19 Oct 2018 15:10

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   | 3320 |       |       |
| 182     | 87.8  |      | 75.7  | 113.5 |
| 145     | 26.5  |      | 28.8  | 43.2# |

