

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091719\  
 Data File : VR026646.D  
 Acq On : 17 Sep 2019 18:46  
 Operator : SY/MD  
 Sample : MDL06  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

MMDadoda  
 9/20/2019 12:41:58 AM

Quant Time: Sep 18 07:39:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR091219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 18 07:10:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.48  | 114  | 300266   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.30 | 117  | 244791   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.24 | 152  | 109308   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.19   | 65    | 48009    | 5.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 116.40% |
| 7) Chloroethane-d5             | 2.63   | 69    | 45359    | 6.22     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 124.40% |
| 11) 1,1-Dichloroethene-d2      | 3.64   | 63    | 88743    | 3.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.80%  |
| 20) 2-Butanone-d5              | 6.62   | 46    | 85350    | 47.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.40%  |
| 24) Chloroform-d               | 7.22   | 84    | 164827   | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.60% |
| 26) 1,2-Dichloroethane-d4      | 7.92   | 65    | 58705    | 5.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 113.00% |
| 32) Benzene-d6                 | 7.88   | 84    | 310643   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.80% |
| 36) 1,2-Dichloropropane-d6     | 8.92   | 67    | 83712    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.60% |
| 41) Toluene-d8                 | 9.99   | 98    | 214404   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 43) trans-1,3-Dichloropropene- | 10.25  | 79    | 16190    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.80%  |
| 46) 2-Hexanone-d5              | 10.61  | 63    | 56057    | 50.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.38  | 84    | 44847    | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.40% |
| 64) 1,2-Dichlorobenzene-d4     | 13.53  | 152   | 65264    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.00%  |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.85 | 85  | 10621  | 0.313 ug/L   | 95     |
| 3) Chloromethane               | 2.06 | 50  | 5101m  | 0.288 ug/L   |        |
| 5) Vinyl chloride              | 2.19 | 62  | 4600   | 0.259 ug/L # | 61     |
| 6) Bromomethane                | 2.55 | 94  | 3513m  | 0.315 ug/L   |        |
| 8) Chloroethane                | 2.68 | 64  | 2407m  | 0.235 ug/L   |        |
| 9) Trichlorofluoromethane      | 2.96 | 101 | 10074m | 0.328 ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 4164m  | 0.309 ug/L   |        |
| 12) 1,1-Dichloroethene         | 3.66 | 96  | 4653   | 0.351 ug/L # | 1      |
| 13) Acetone                    | 3.73 | 43  | 4638   | 3.447 ug/L   | 83     |
| 14) Carbon disulfide           | 3.98 | 76  | 9979   | 0.176 ug/L # | 76     |
| 15) Methyl Acetate             | 4.25 | 43  | 1417m  | 0.251 ug/L   |        |
| 16) Methylene chloride         | 4.43 | 84  | 10282m | 0.373 ug/L   |        |
| 17) Methyl tert-butyl Ether    | 4.92 | 73  | 6642   | 0.232 ug/L # | 90     |
| 18) trans-1,2-Dichloroethene   | 4.91 | 96  | 8453   | 0.305 ug/L   | 75     |
| 19) 1,1-Dichloroethane         | 5.72 | 63  | 12583  | 0.242 ug/L   | 98     |
| 21) 2-Butanone                 | 6.72 | 43  | 6640   | 2.701 ug/L   | 82     |
| 22) cis-1,2-Dichloroethene     | 6.70 | 96  | 7029m  | 0.265 ug/L   |        |

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 ALS Vial : 10 Sample Multiplier: 1

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 ClientSampleId :  
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Manual Integrations  
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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 18 07:10:19 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 23) Bromochloromethane          | 7.08  | 128  | 2682     | 0.364 | ug/L # | 52       |
| 25) Chloroform                  | 7.26  | 83   | 19715    | 0.396 | ug/L   | 97       |
| 27) 1,2-Dichloroethane          | 8.02  | 62   | 5300     | 0.303 | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 7.45  | 97   | 9462     | 0.240 | ug/L   | 96       |
| 30) Cyclohexane                 | 7.54  | 56   | 6356     | 0.151 | ug/L # | 84       |
| 31) Carbon tetrachloride        | 7.67  | 117  | 8974     | 0.269 | ug/L   | 98       |
| 33) Benzene                     | 7.92  | 78   | 25380m   | 0.234 | ug/L   |          |
| 34) Trichloroethene             | 8.72  | 95   | 6945m    | 0.257 | ug/L   |          |
| 35) Methylcyclohexane           | 8.97  | 83   | 7662     | 0.188 | ug/L   | 87       |
| 37) 1,2-Dichloropropane         | 9.02  | 63   | 5357     | 0.244 | ug/L   | 99       |
| 38) Bromodichloromethane        | 9.30  | 83   | 6729     | 0.288 | ug/L   | 83       |
| 39) cis-1,3-Dichloropropene     | 9.74  | 75   | 5175m    | 0.223 | ug/L   |          |
| 40) 4-Methyl-2-pentanone        | 9.88  | 43   | 9891     | 1.802 | ug/L # | 86       |
| 42) Toluene                     | 10.05 | 91   | 24992    | 0.264 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene   | 10.28 | 75   | 4488m    | 0.301 | ug/L   |          |
| 45) 1,1,2-Trichloroethane       | 10.47 | 97   | 2629     | 0.281 | ug/L # | 68       |
| 47) Tetrachloroethene           | 10.53 | 164  | 4819     | 0.302 | ug/L   | 79       |
| 48) 2-Hexanone                  | 10.65 | 43   | 9363     | 2.683 | ug/L # | 92       |
| 49) Dibromochloromethane        | 10.80 | 129  | 3103m    | 0.305 | ug/L   |          |
| 50) 1,2-Dibromoethane           | 10.91 | 107  | 1967     | 0.243 | ug/L # | 91       |
| 51) Chlorobenzene               | 11.33 | 112  | 14767    | 0.268 | ug/L   | 88       |
| 52) Ethylbenzene                | 11.41 | 91   | 20560    | 0.191 | ug/L   | 98       |
| 53) m,p-Xylene                  | 11.52 | 106  | 6170     | 0.160 | ug/L   | 83       |
| 54) o-Xylene                    | 11.84 | 106  | 6456     | 0.170 | ug/L   | 84       |
| 55) Styrene                     | 11.86 | 104  | 9215     | 0.169 | ug/L # | 76       |
| 56) Isopropylbenzene            | 12.15 | 105  | 17662    | 0.165 | ug/L # | 94       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.40 | 83   | 3180     | 0.294 | ug/L # | 75       |
| 59) 1,2,3-Trichloropropane      | 12.45 | 75   | 2455m    | 0.309 | ug/L   |          |
| 61) Bromoform                   | 12.03 | 173  | 1516     | 0.355 | ug/L # | 86       |
| 62) 1,3-Dichlorobenzene         | 13.18 | 146  | 8576     | 0.221 | ug/L   | 88       |
| 63) 1,4-Dichlorobenzene         | 13.26 | 146  | 10326    | 0.267 | ug/L   | 93       |
| 65) 1,2-Dichlorobenzene         | 13.55 | 146  | 10139    | 0.308 | ug/L # | 92       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.17 | 75   | 368      | 0.224 | ug/L   | 88       |
| 67) 1,3,5-Trichlorobenzene      | 14.31 | 180  | 8323     | 0.264 | ug/L   | 90       |
| 68) 1,2,4-trichlorobenzene      | 14.80 | 180  | 5224     | 0.235 | ug/L   | 93       |
| 69) Naphthalene                 | 15.02 | 128  | 4425     | 0.150 | ug/L # | 79       |
| 70) 1,2,3-Trichlorobenzene      | 15.20 | 180  | 4772m    | 0.243 | ug/L   |          |
| -----                           |       |      |          |       |        |          |

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

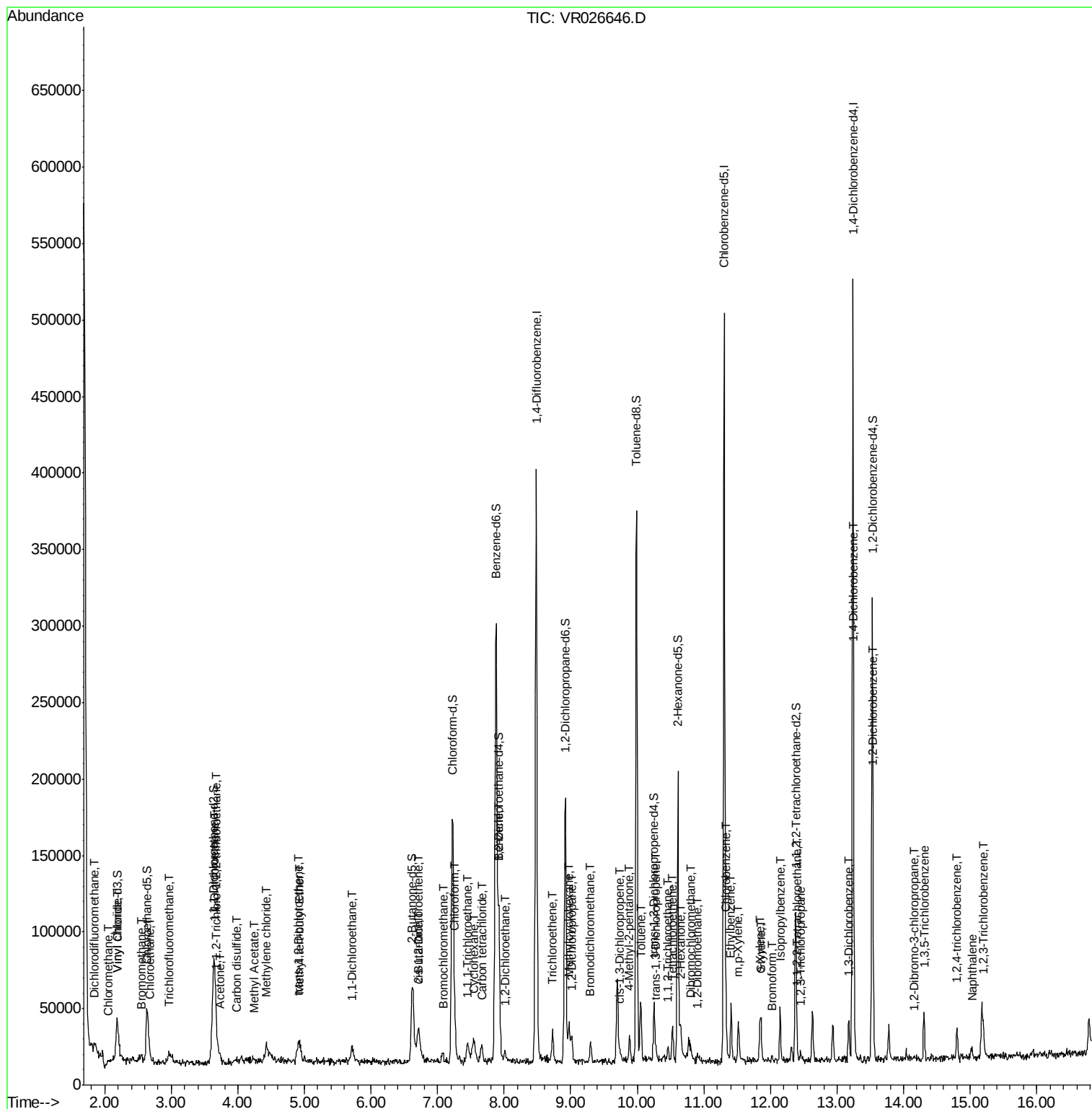
Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091719\  
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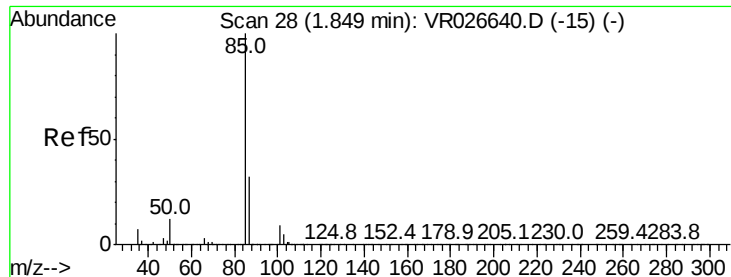
Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

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#2

Dichlorodifluoromethane

Concen: 0.313 ug/L

RT: 1.85 min Scan# 28

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampleId :

MDL06

Tot Ion: 85 Resp: 10621

Ion Ratio Lower Upper

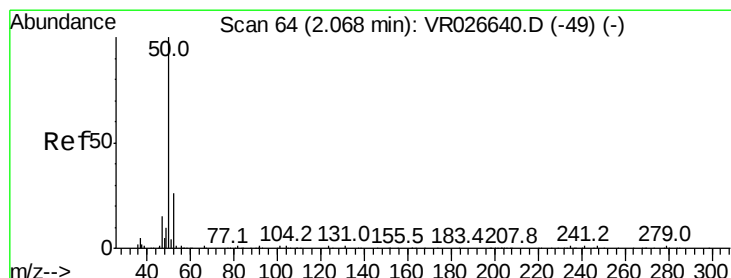
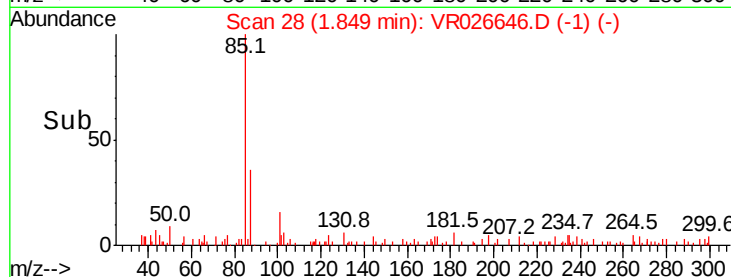
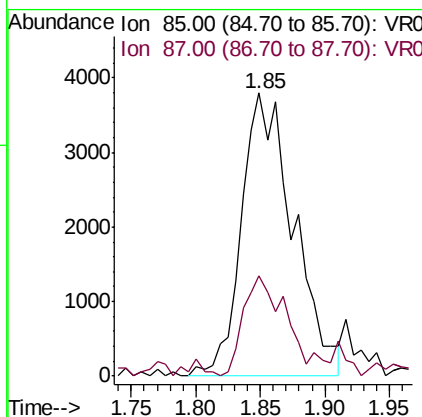
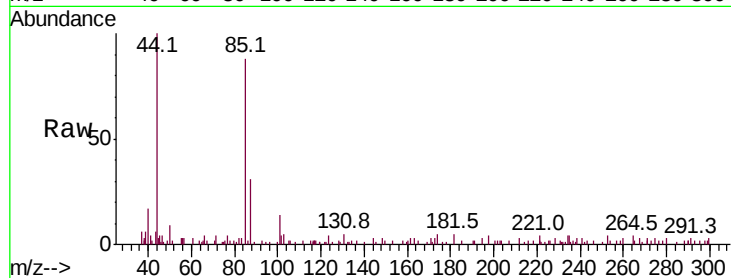
85 100

87 29.8 26.0 39.0

Manual Integrations  
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9/20/2019 12:41:58 AM



#3

Chloromethane

Concen: 0.288 ug/L m

RT: 2.06 min Scan# 62

Delta R.T. -0.01 min

Lab File: VR026646.D

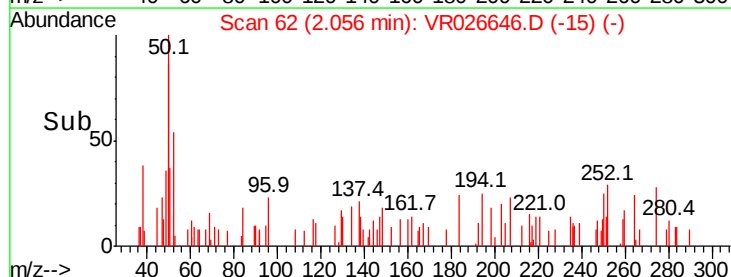
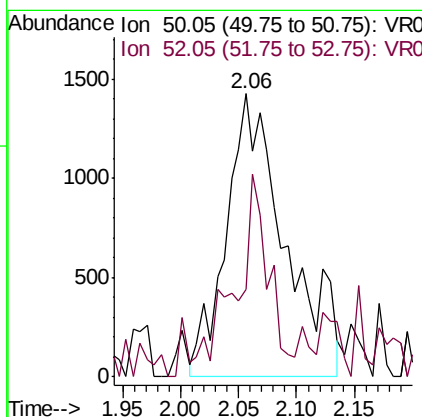
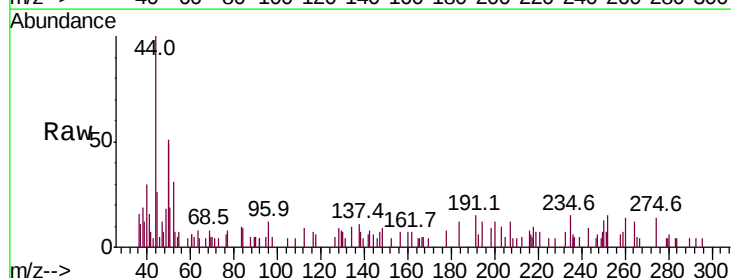
Acq: 17 Sep 2019 18:46

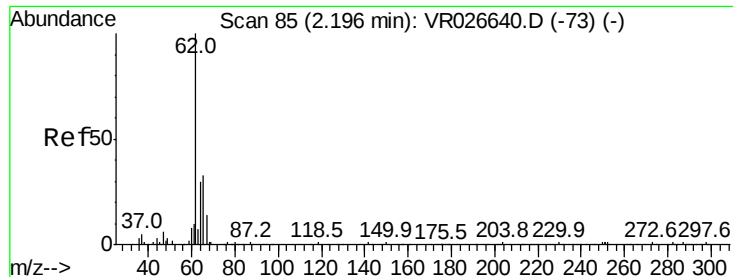
Tgt Ion: 50 Resp: 5101

Ion Ratio Lower Upper

50 100

52 60.9 21.7 40.3#





#5

Vinyl chloride

Concen: 0.259 ug/L

RT: 2.19 min Scan# 84

Delta R.T. -0.01 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampleId :

MDL06

Tot Ion: 62 Resp: 4600

Ion Ratio Lower Upper

62 100

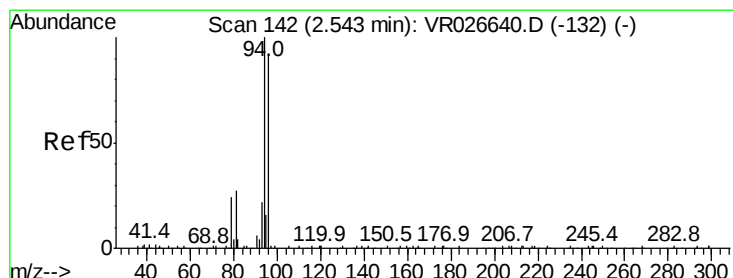
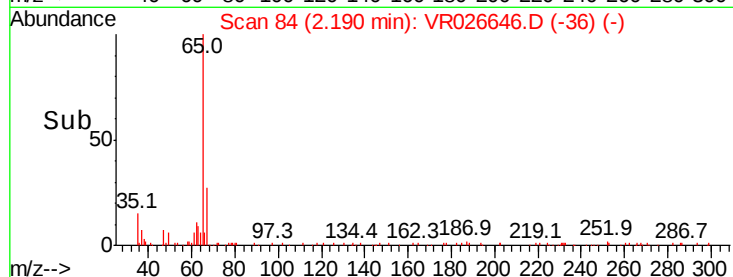
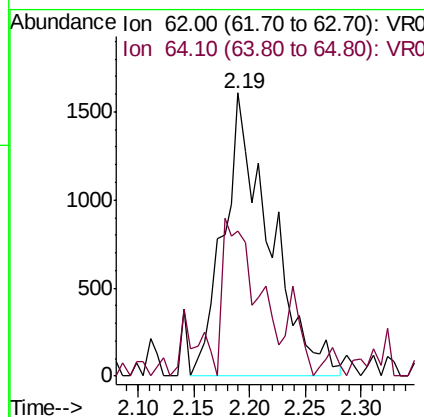
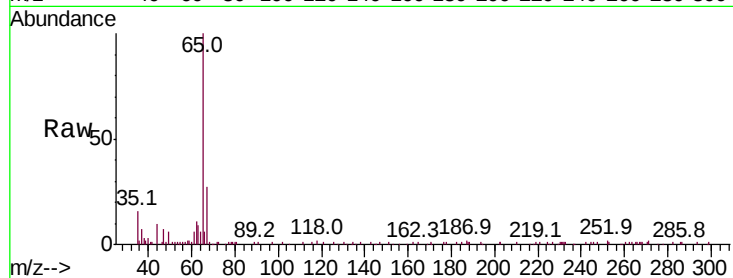
64 51.3 21.2 39.4#

Manual Integrations

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9/20/2019 12:41:58 AM



#6

Bromomethane

Concen: 0.315 ug/L m

RT: 2.55 min Scan# 143

Delta R.T. 0.01 min

Lab File: VR026646.D

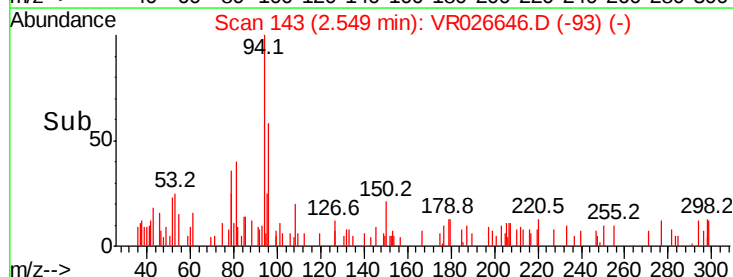
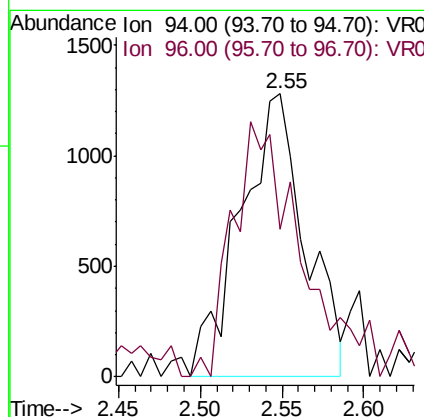
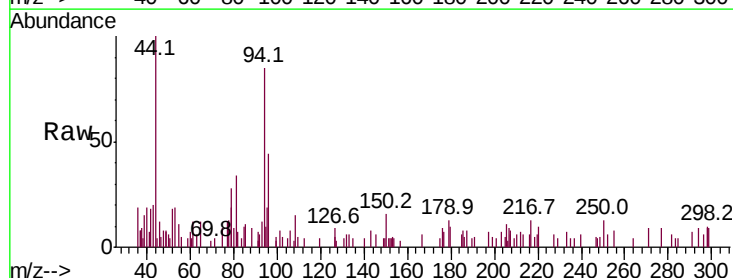
Acq: 17 Sep 2019 18:46

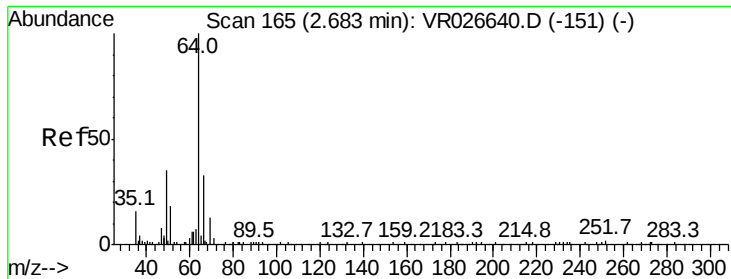
Tgt Ion: 94 Resp: 3513

Ion Ratio Lower Upper

94 100

96 52.0 61.0 113.4#





#8

Chloroethane

Concen: 0.235 ug/L m

RT: 2.68 min Scan# 164

Delta R.T. -0.01 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampleId :

MDL06

Tot Ion: 64 Resp: 2407

Ion Ratio Lower Upper

64 100

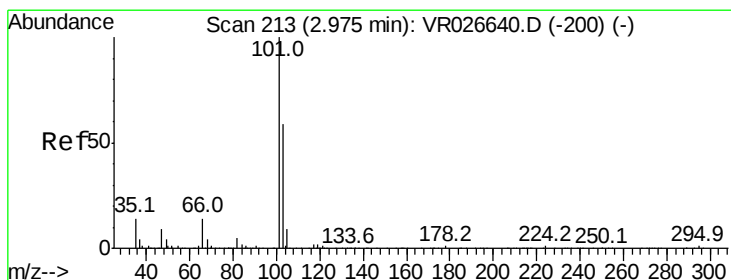
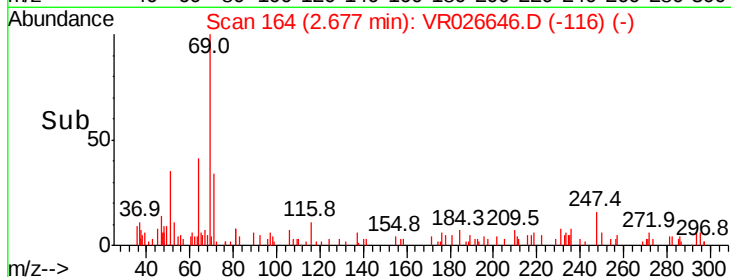
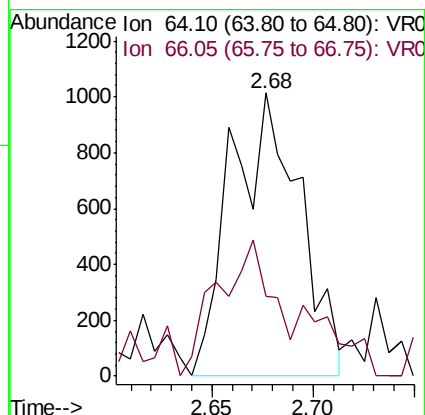
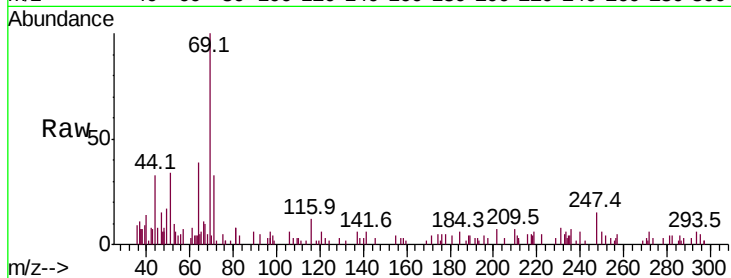
66 28.4 22.3 41.3

Manual Integrations

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9/20/2019 12:41:58 AM



#9

Trichlorofluoromethane

Concen: 0.328 ug/L m

RT: 2.96 min Scan# 211

Delta R.T. -0.01 min

Lab File: VR026646.D

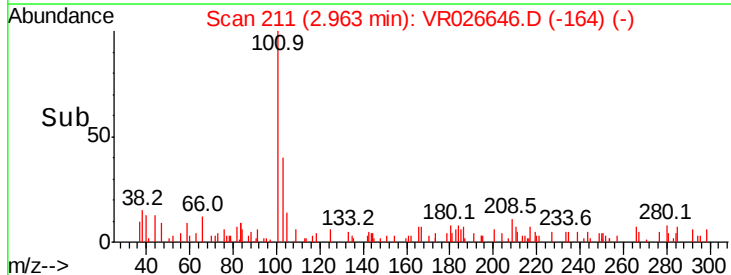
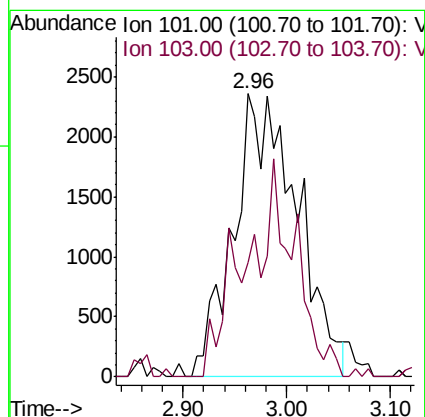
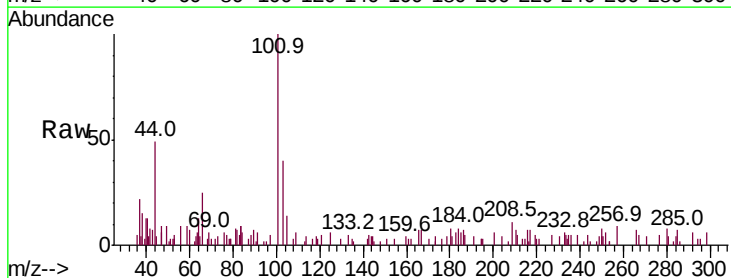
Acq: 17 Sep 2019 18:46

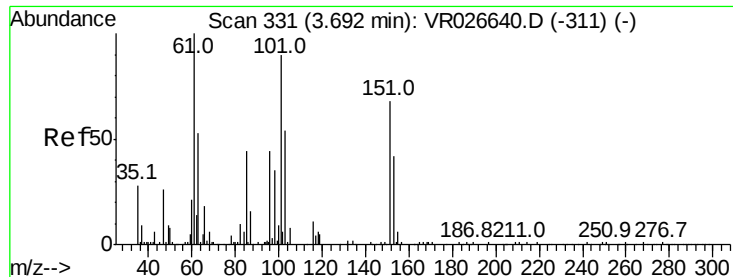
Tgt Ion: 101 Resp: 10074

Ion Ratio Lower Upper

101 100

103 14.9 50.9 76.3#





#10

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

Concen: 0.309 ug/L m

RT: 3.68 min Scan# 329

Delta R.T. -0.01 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

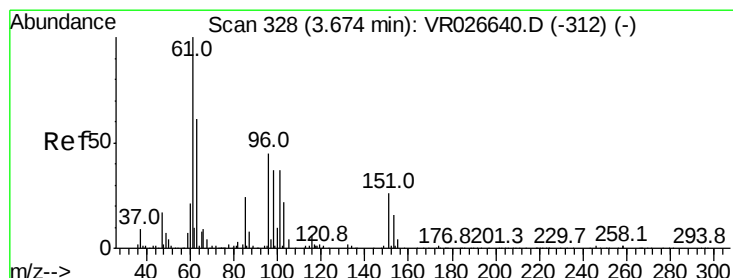
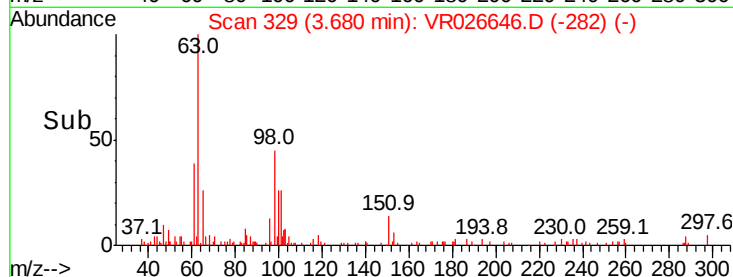
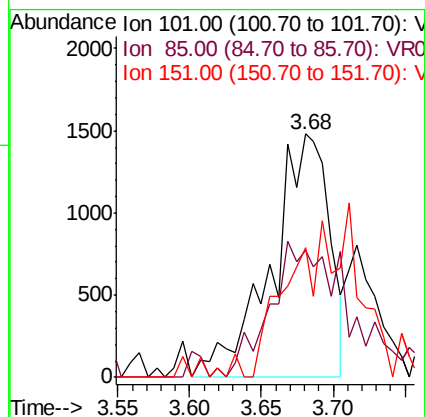
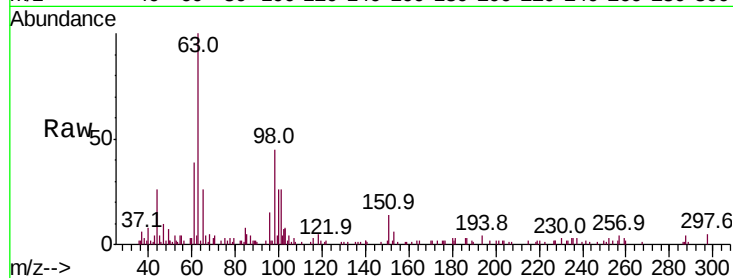
ClientSampled :

MDL06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 4164  |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 75.5  | 39.7  | 59.5# |
| 151       | 32.8  | 58.4  | 87.6# |

Manual Integrations  
APPROVED

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9/20/2019 12:41:58 AM



#12

1,1-Dichloroethene

Concen: 0.351 ug/L

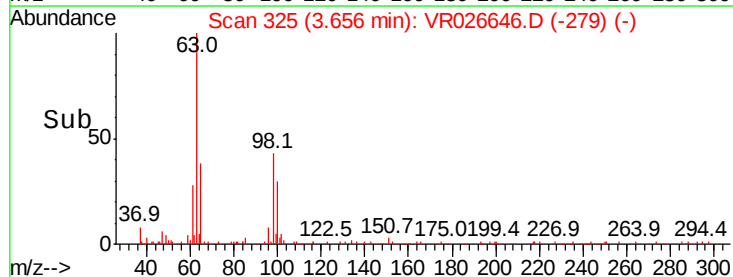
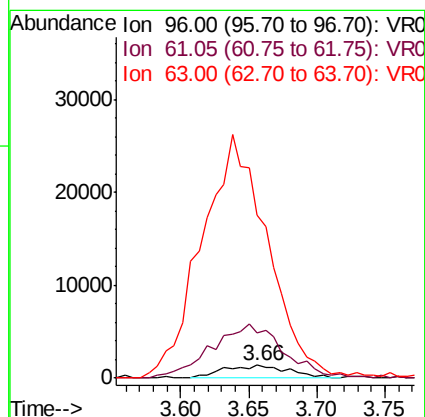
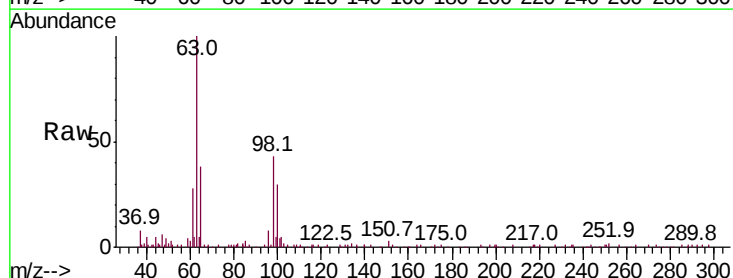
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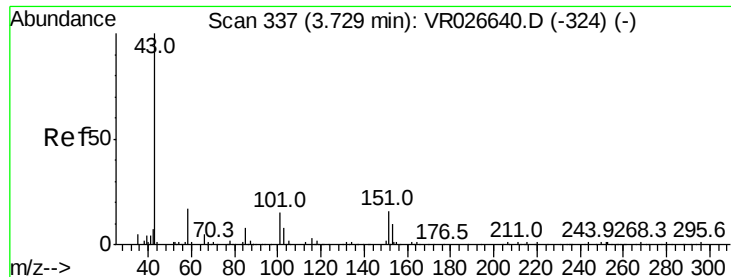
Delta R.T. -0.02 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 4653   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 359.0  | 143.3 | 266.1# |
| 63        | 1294.7 | 112.6 | 209.0# |





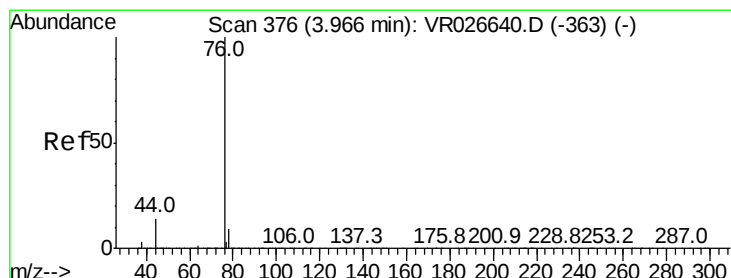
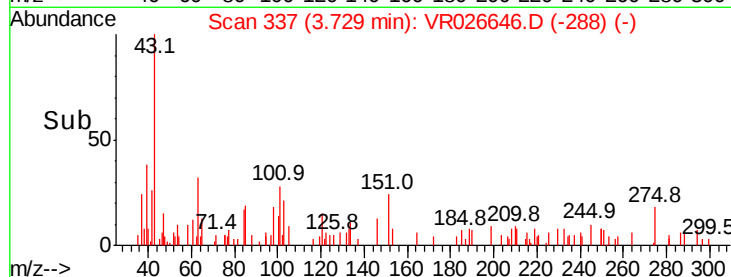
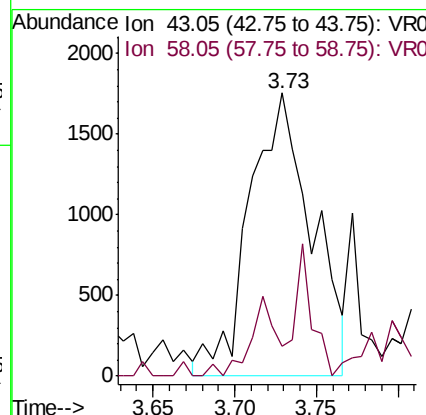
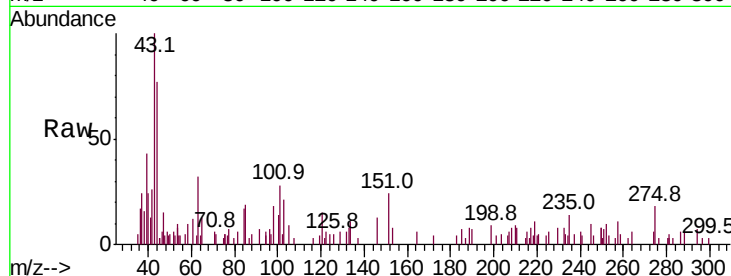
#13  
Acetone  
Concen: 3.447 ug/L  
RT: 3.73 min Scan# 337  
Delta R.T. 0.00 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 13.1  | 0.0   | 41.8  |

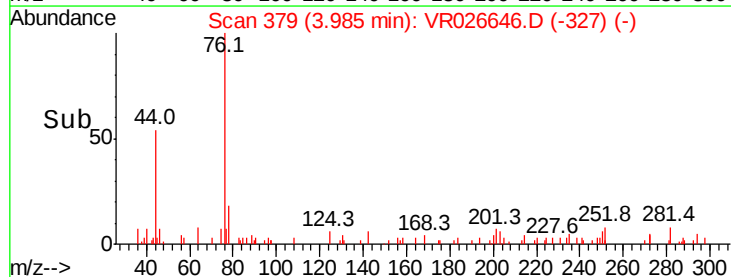
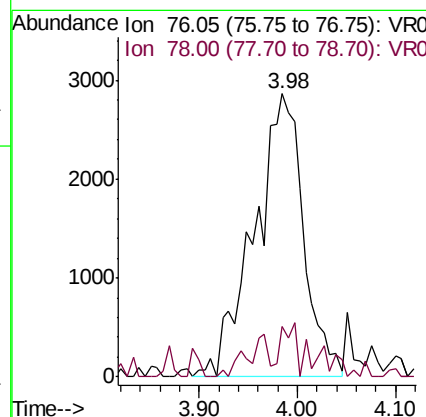
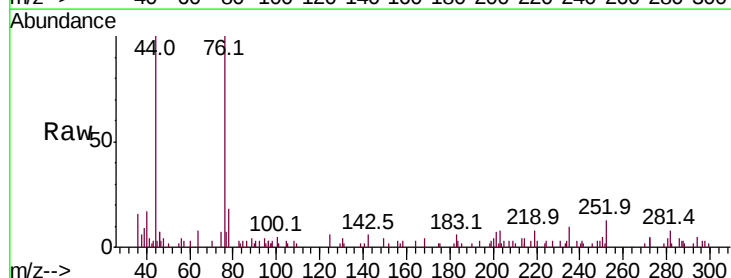
Manual Integrations  
APPROVED

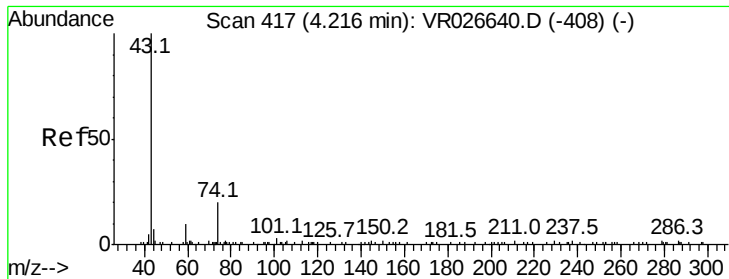
MMDadoda  
9/20/2019 12:41:58 AM



#14  
Carbon disulfide  
Concen: 0.176 ug/L  
RT: 3.98 min Scan# 379  
Delta R.T. 0.02 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 18.0  | 7.4   | 11.0# |





#15

Methyl Acetate

Concen: 0.251 ug/L m

RT: 4.25 min Scan# 422

Delta R.T. 0.03 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampled :

MDL06

Tot Ion: 43 Resp: 1417

Ion Ratio Lower Upper

43 100

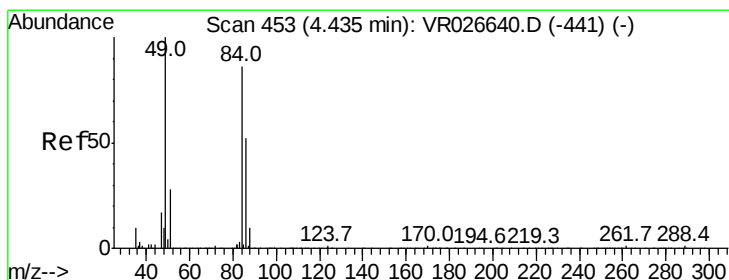
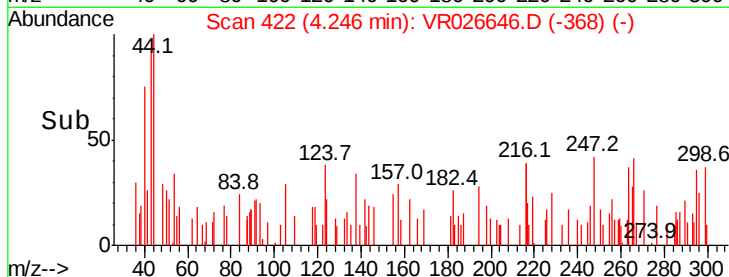
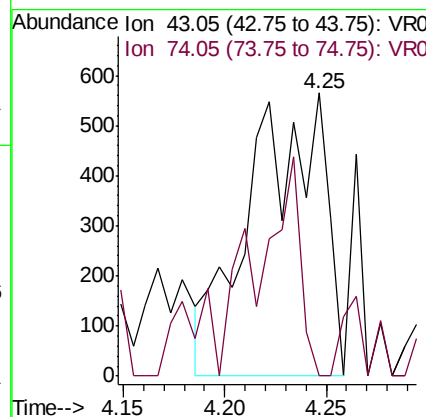
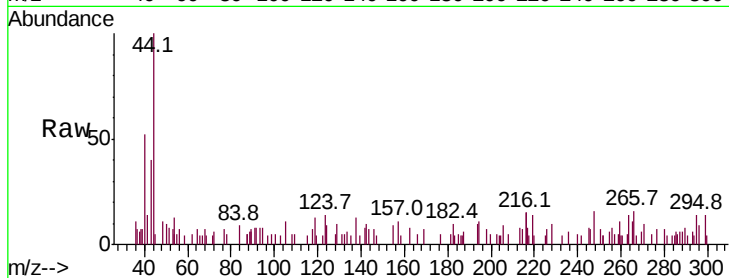
74 28.2 17.5 26.3#

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#16

Methylene chloride

Concen: 0.373 ug/L m

RT: 4.43 min Scan# 453

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

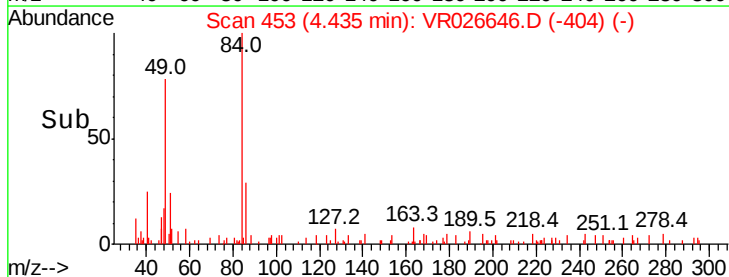
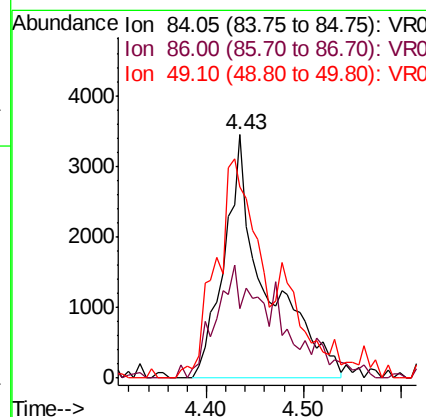
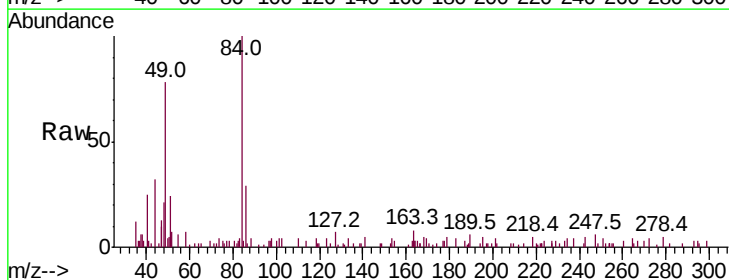
Tgt Ion: 84 Resp: 10282

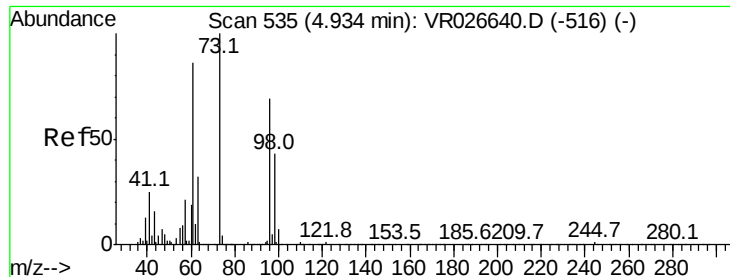
Ion Ratio Lower Upper

84 100

86 28.5 44.2 82.0#

49 78.3 82.3 152.9#





#17

Methvl tert-butvl Ether

Concen: 0.232 ug/L

RT: 4.92 min Scan# 533

Delta R.T. -0.01 min

Lab File: VR026646.D

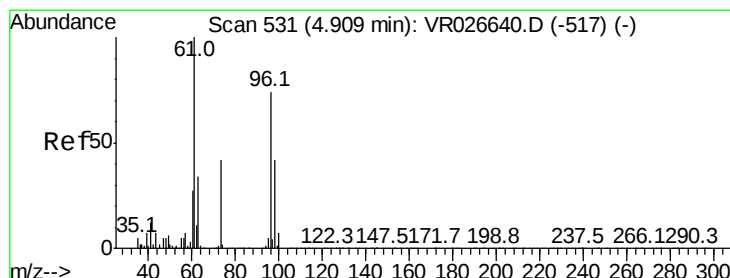
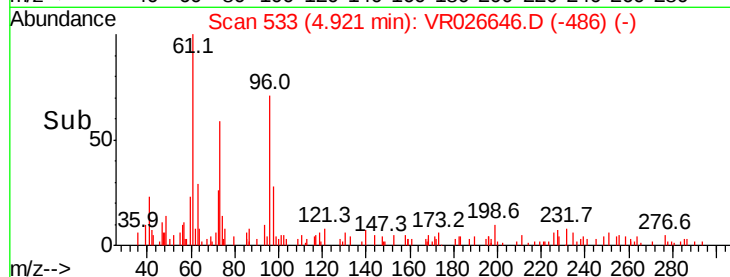
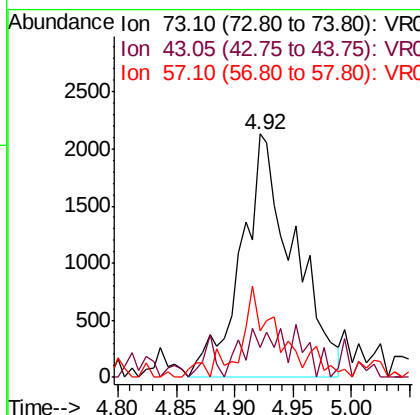
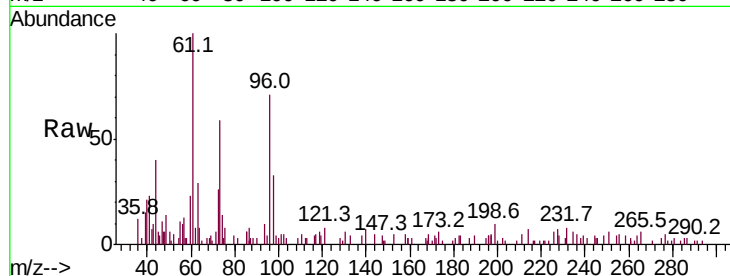
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 11.1  | 14.7  | 22.1# |
| 57      | 20.8  | 18.9  | 28.3  |

Manual Integrations  
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#18

trans-1,2-Dichloroethene

Concen: 0.305 ug/L

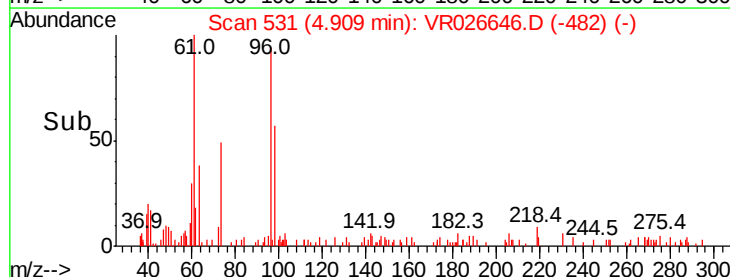
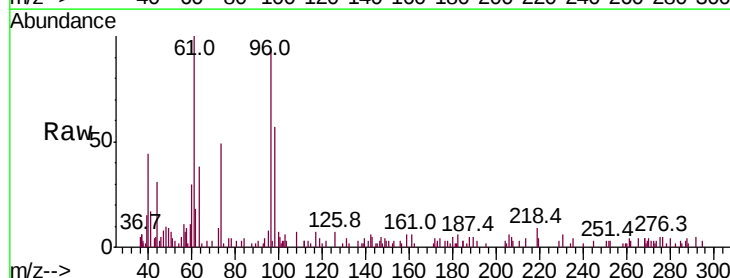
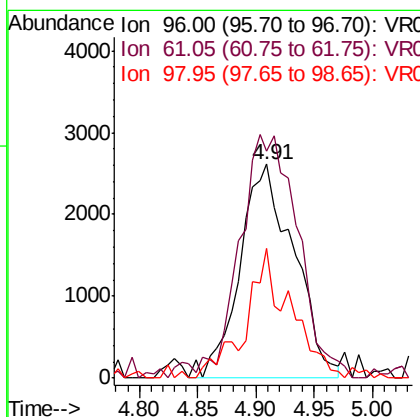
RT: 4.91 min Scan# 531

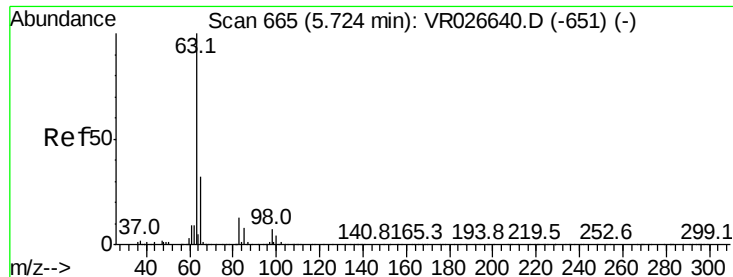
Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 106.2 | 104.4 | 194.0 |
| 98      | 60.7  | 44.2  | 82.0  |





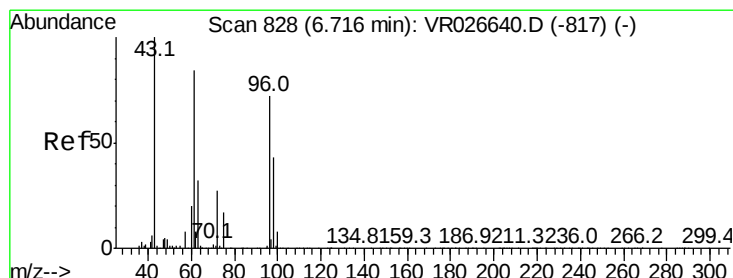
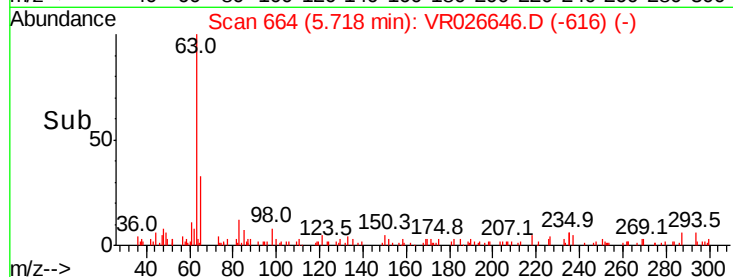
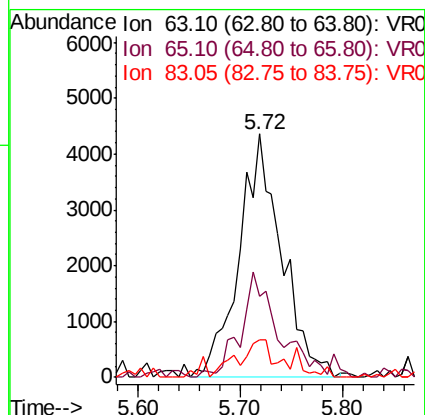
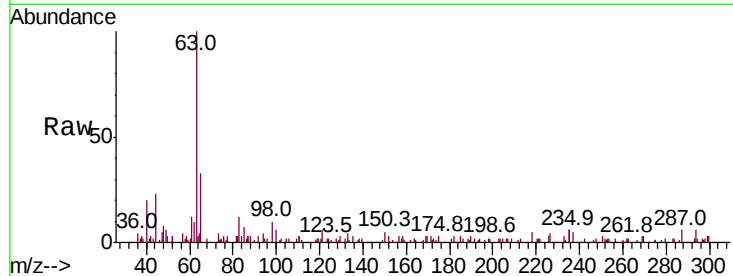
#19  
 1,1-Dichloroethane  
 Concen: 0.242 ug/L  
 RT: 5.72 min Scan# 664  
 Delta R.T. -0.01 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 MDL06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 12583 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 65        | 32.5  | 22.5  | 41.9  |
| 83        | 15.1  | 8.6   | 16.0  |

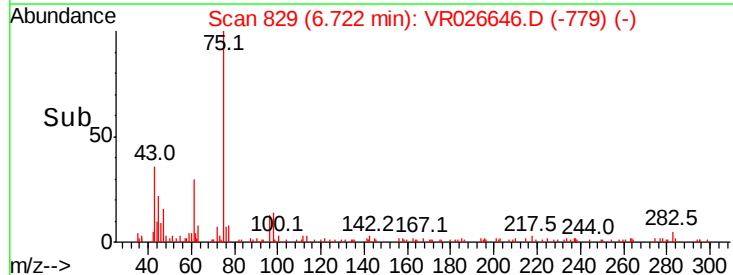
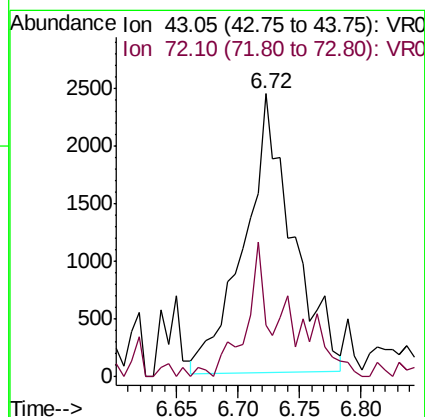
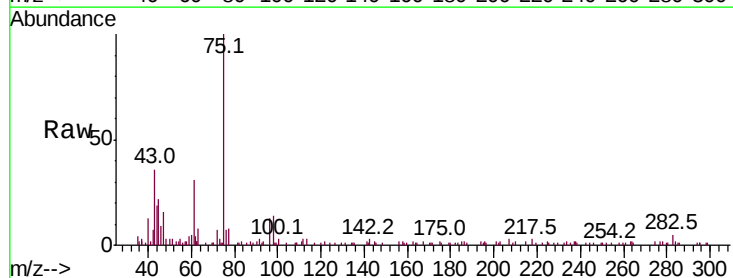
Manual Integrations  
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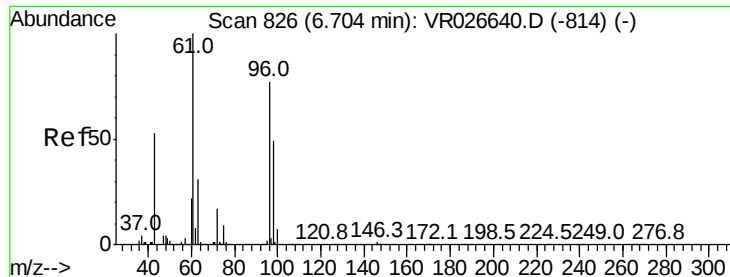
MMDadoda  
 9/20/2019 12:41:58 AM



#21  
 2-Butanone  
 Concen: 2.701 ug/L  
 RT: 6.72 min Scan# 829  
 Delta R.T. 0.01 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 43    | Resp: | 6640 |
| Ion Ratio | Lower | Upper |      |
| 43        | 100   |       |      |
| 72        | 20.3  | 15.0  | 45.1 |





#22

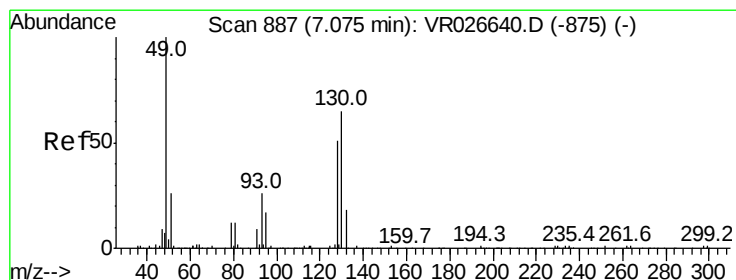
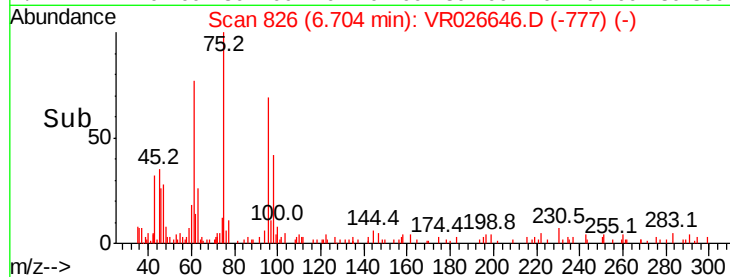
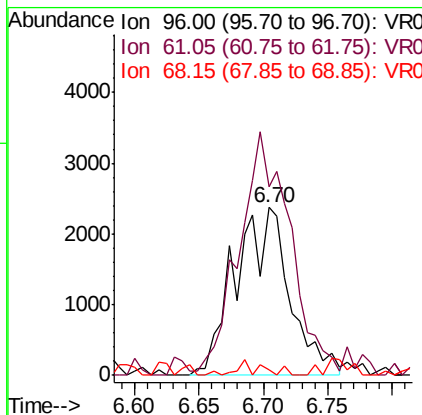
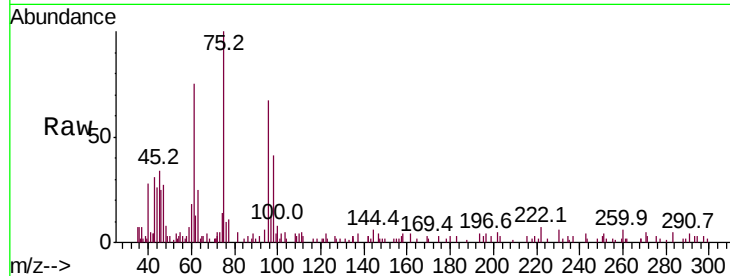
cis-1,2-Dichloroethene  
Concen: 0.265 ug/L m  
RT: 6.70 min Scan# 826  
Delta R.T. 0.00 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 112.3 | 95.4  | 177.2 |
| 68      | 3.4   | 0.0   | 0.0#  |

Manual Integrations  
APPROVED

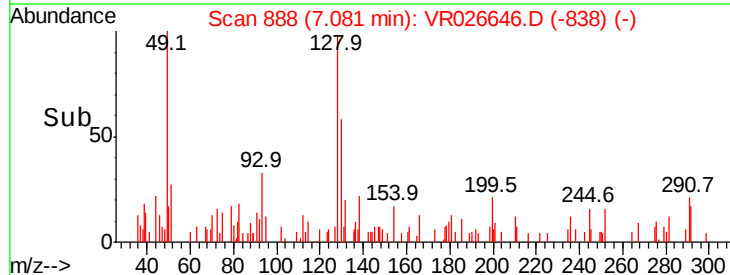
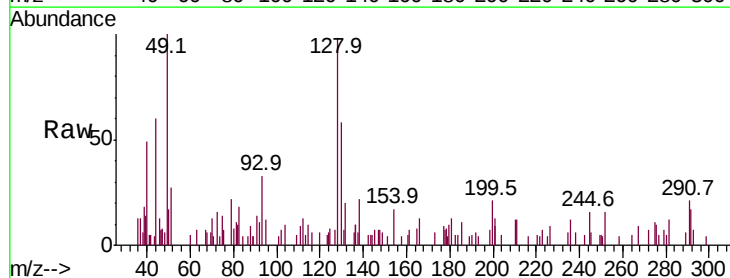
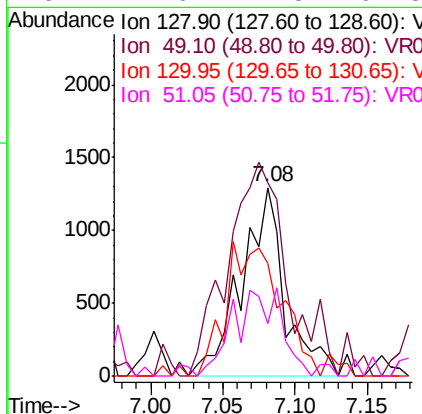
MMDadoda  
9/20/2019 12:41:58 AM

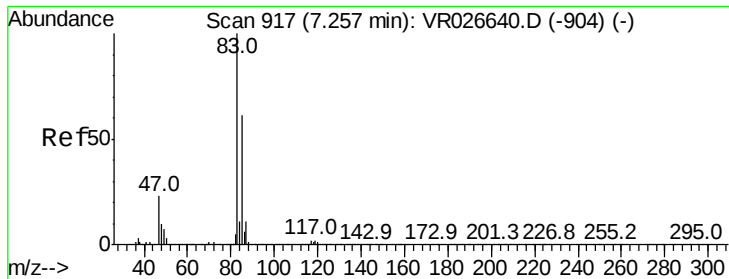


#23

Bromochloromethane  
Concen: 0.364 ug/L  
RT: 7.08 min Scan# 888  
Delta R.T. 0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 128     | 100   |       |        |
| 49      | 102.2 | 118.6 | 220.3# |
| 130     | 59.5  | 80.6  | 149.6# |
| 51      | 27.6  | 41.5  | 62.3#  |





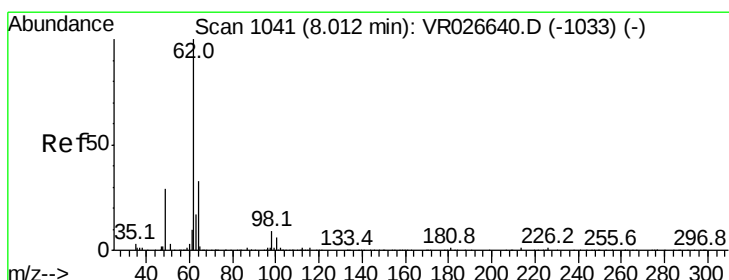
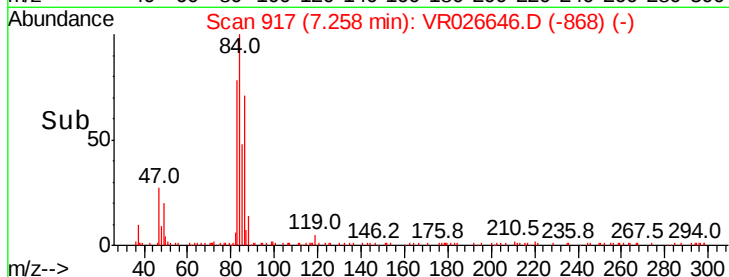
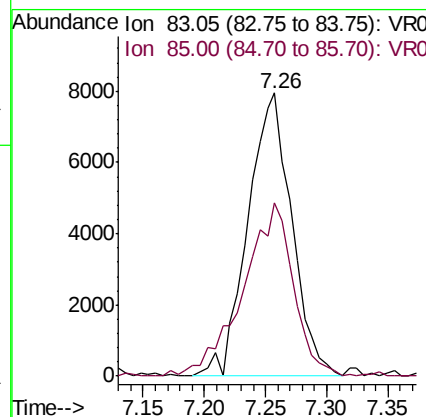
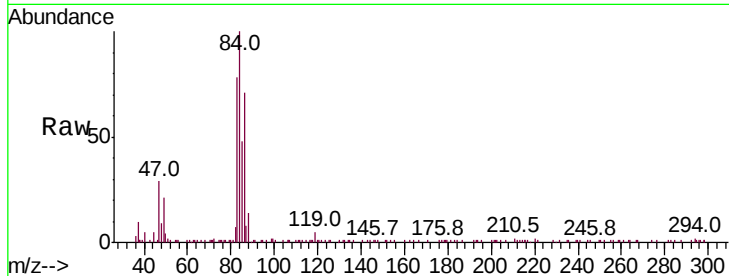
#25  
Chloroform  
Concen: 0.396 ug/L  
RT: 7.26 min Scan# 917  
Delta R.T. 0.00 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 83      | 100   | 19715 |       |       |
| 85      | 61.3  | 44.3  | 82.3  |       |

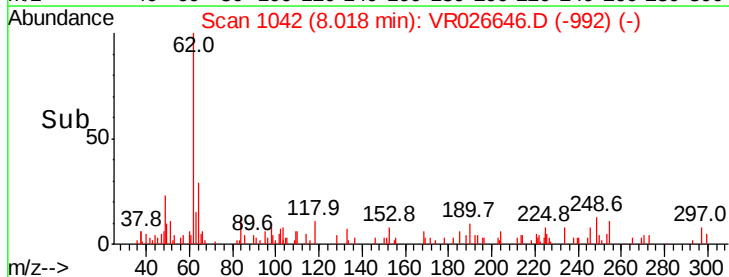
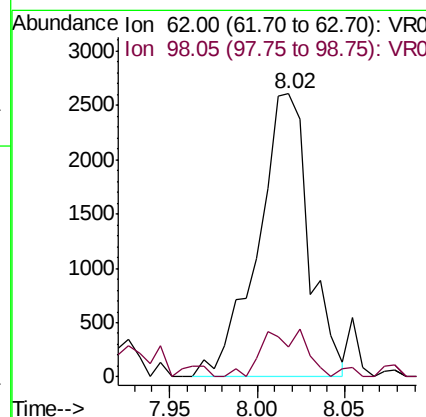
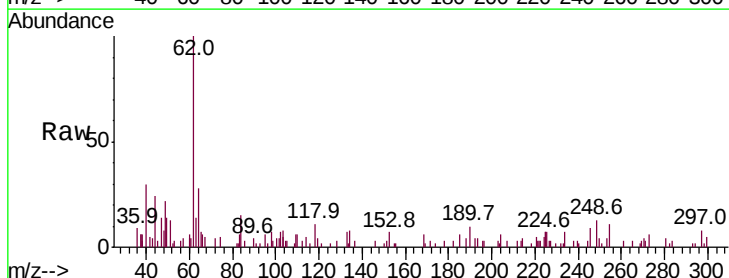
Manual Integrations  
APPROVED

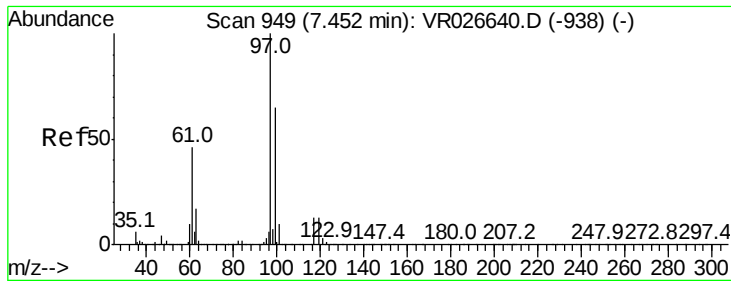
MMDadoda  
9/20/2019 12:41:58 AM



#27  
1,2-Dichloroethane  
Concen: 0.303 ug/L  
RT: 8.02 min Scan# 1042  
Delta R.T. 0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 5300 |       |       |
| 98      | 10.7  | 9.0  | 13.4  |       |





#29

1,1,1-Trichloroethane

Concen: 0.240 ug/L

RT: 7.45 min Scan# 949

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

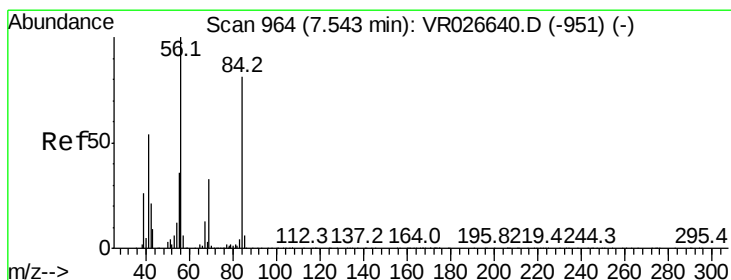
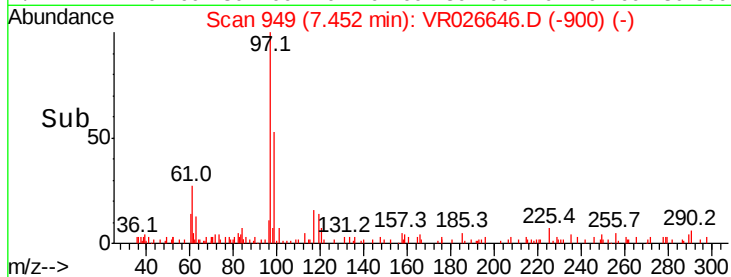
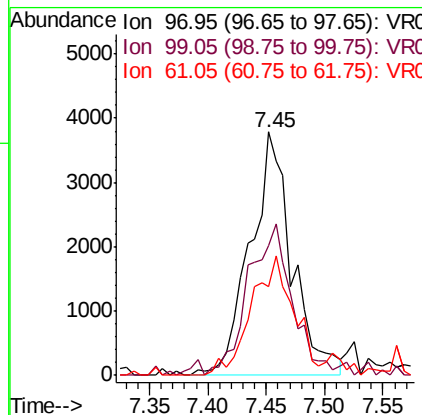
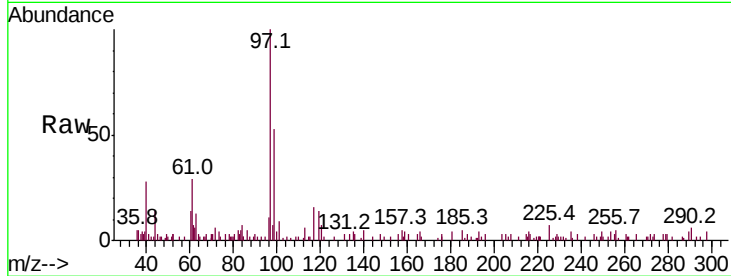
ClientSampled :

MDL06

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 9462  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 66.1  | 50.1  | 75.1  |
| 61       | 49.2  | 37.8  | 56.8  |

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9/20/2019 12:41:58 AM



#30

Cyclohexane

Concen: 0.151 ug/L

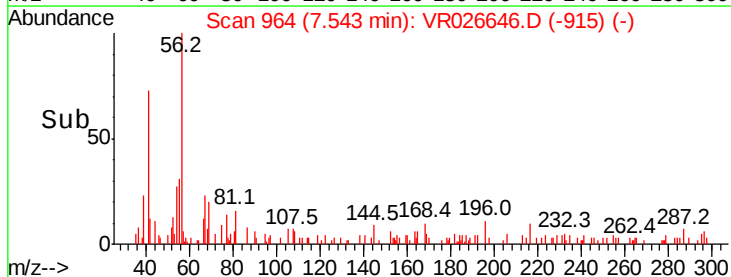
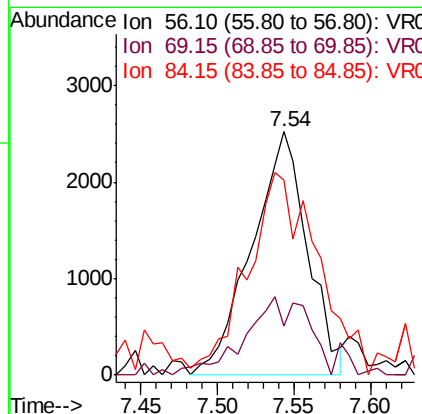
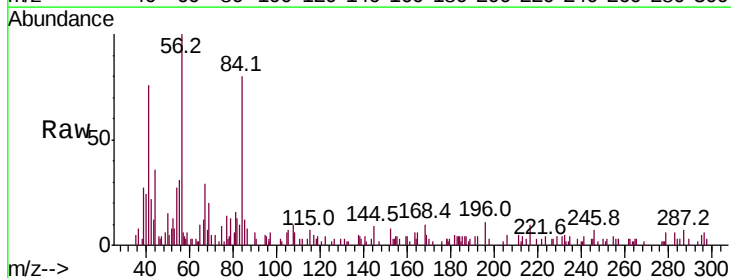
RT: 7.54 min Scan# 964

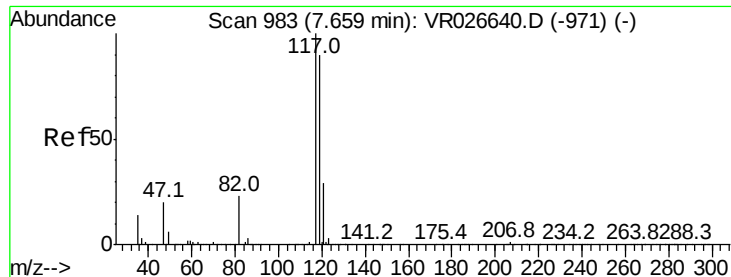
Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 6356  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 22.9  | 25.9  | 38.9# |
| 84       | 99.1  | 67.6  | 101.4 |





#31

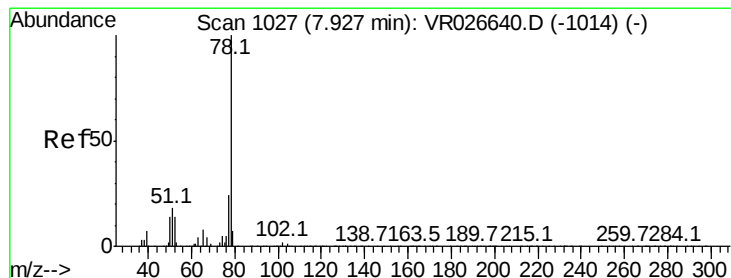
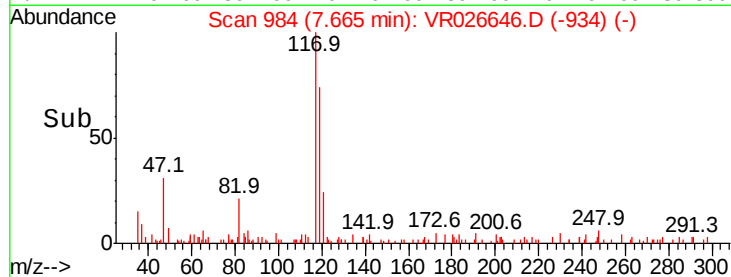
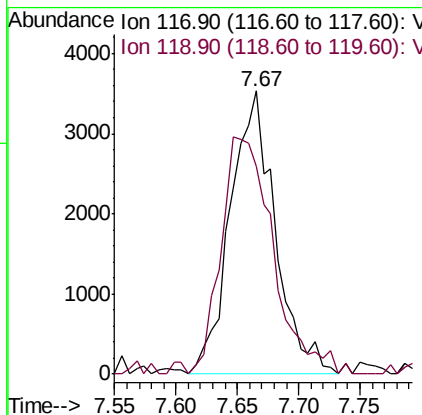
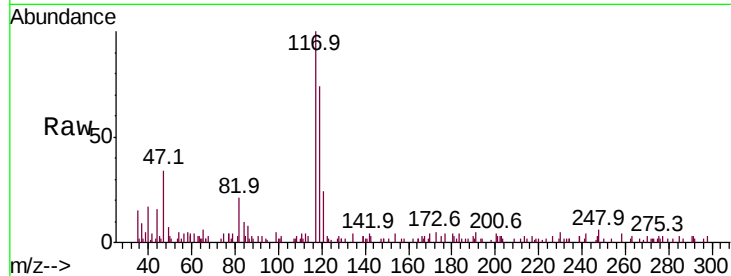
Carbon tetrachloride  
Concen: 0.269 ug/L  
RT: 7.67 min Scan# 984  
Delta R.T. 0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

Tot Ion:117 Resp: 8974  
Ion Ratio Lower Upper  
117 100  
119 97.6 76.6 115.0

Manual Integrations  
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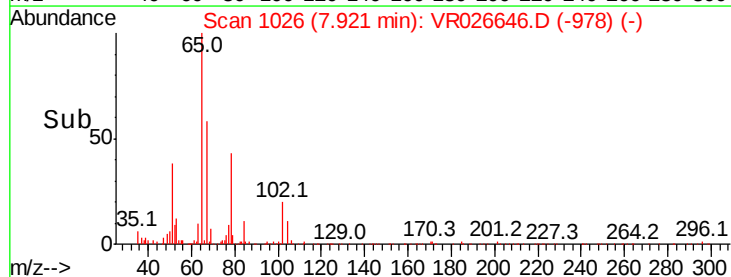
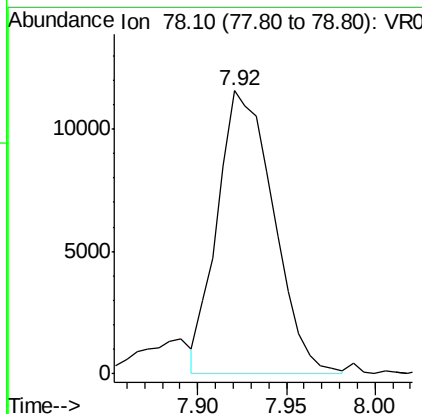
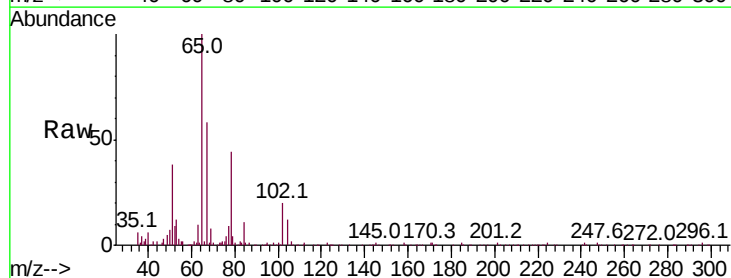
MMDadoda  
9/20/2019 12:41:58 AM

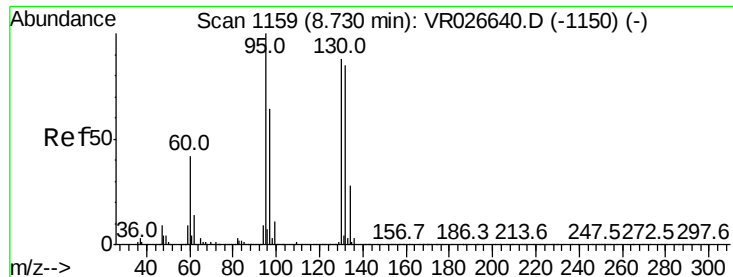


#33

Benzene  
Concen: 0.234 ug/L m  
RT: 7.92 min Scan# 1026  
Delta R.T. -0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Tgt Ion: 78 Resp: 25380





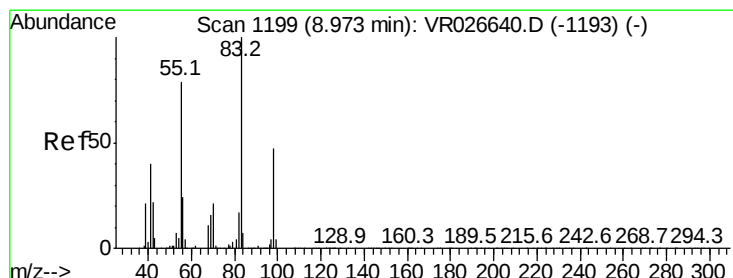
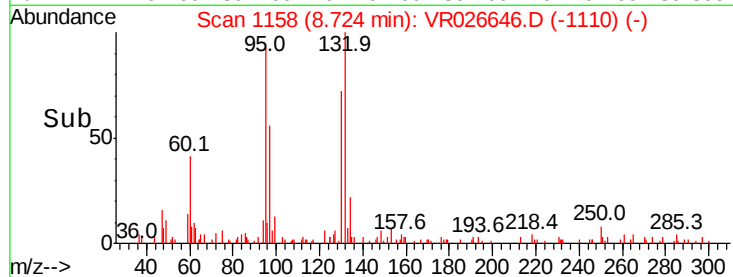
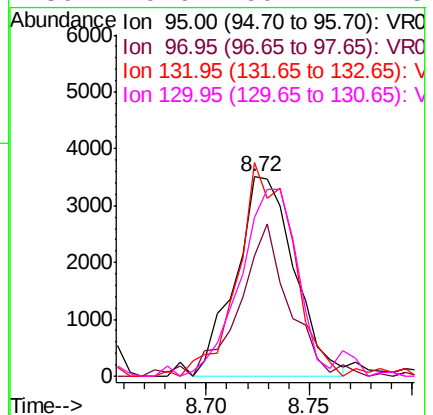
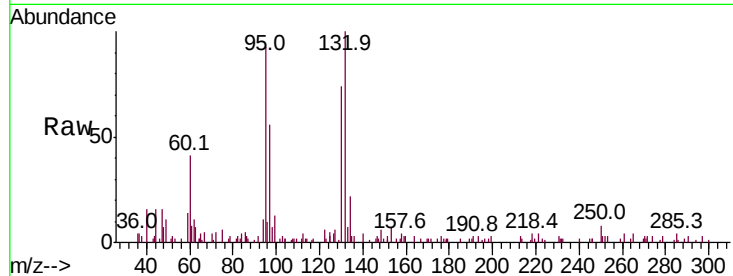
#34  
 Trichloroethene  
 Concen: 0.257 ug/L m  
 RT: 8.72 min Scan# 1158  
 Delta R.T. -0.01 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 MDL06

| Tot Ion   | 95    | Resp: | 6945   |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 97        | 60.1  | 45.6  | 84.6   |
| 132       | 107.0 | 57.3  | 106.5# |
| 130       | 79.6  | 60.1  | 111.5  |

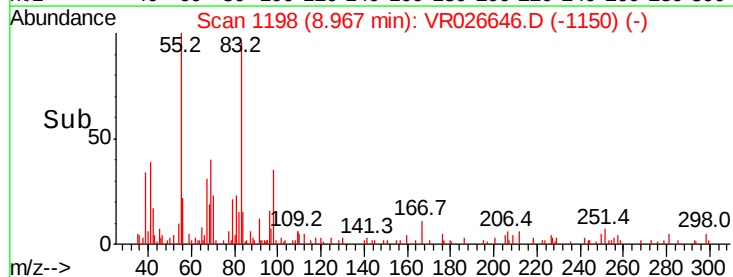
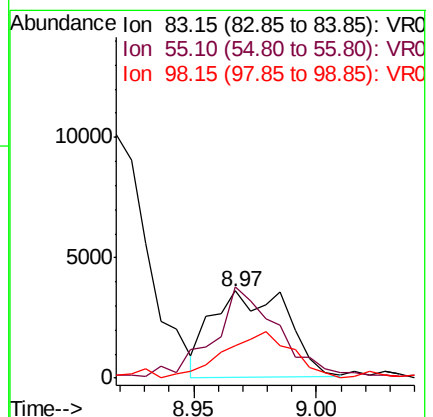
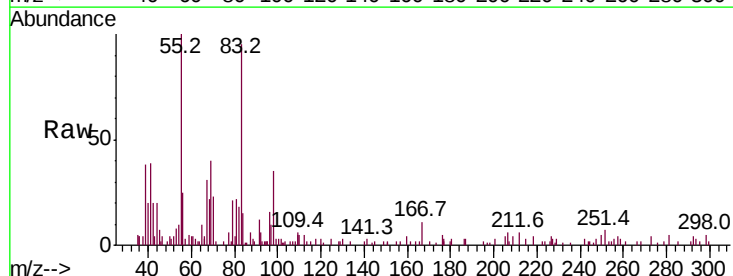
Manual Integrations  
 APPROVED

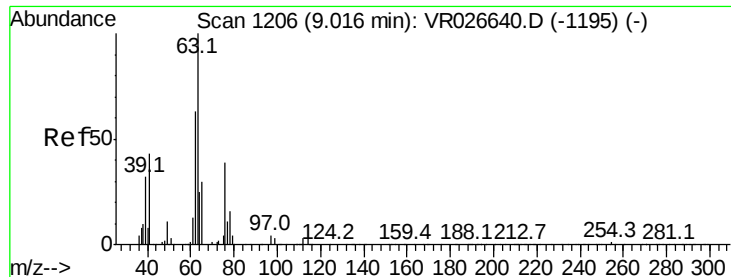
MMDadoda  
 9/20/2019 12:41:58 AM



#35  
 Methylcyclohexane  
 Concen: 0.188 ug/L  
 RT: 8.97 min Scan# 1198  
 Delta R.T. -0.01 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

| Tgt Ion   | 83    | Resp: | 7662 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 55        | 93.9  | 63.5  | 95.3 |
| 98        | 48.4  | 35.4  | 53.0 |





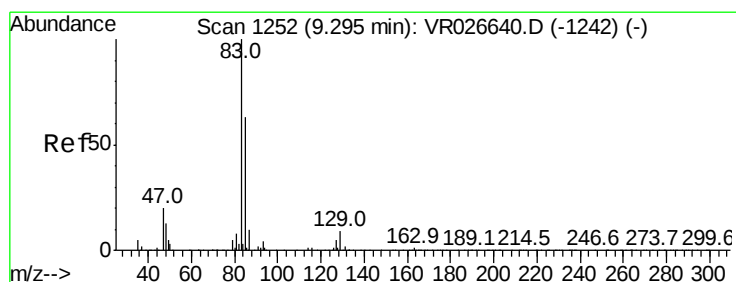
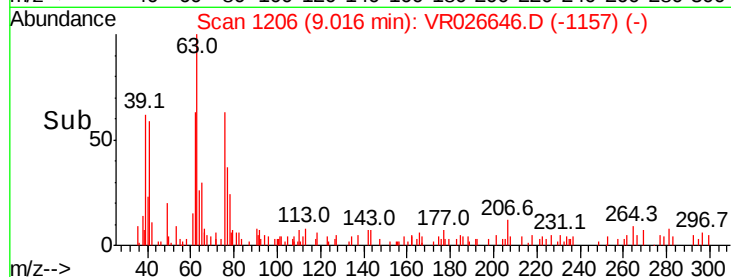
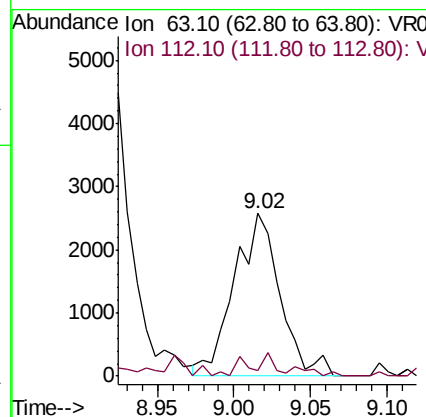
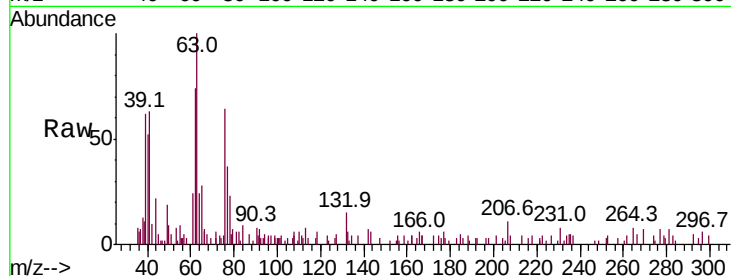
#37  
 1,2-Dichloropropane  
 Concen: 0.244 ug/L  
 RT: 9.02 min Scan# 1206  
 Delta R.T. 0.00 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

Instrument :  
 MSVOA\_R  
 ClientSampled :  
 MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 112     | 3.5   | 3.1   | 4.7   |

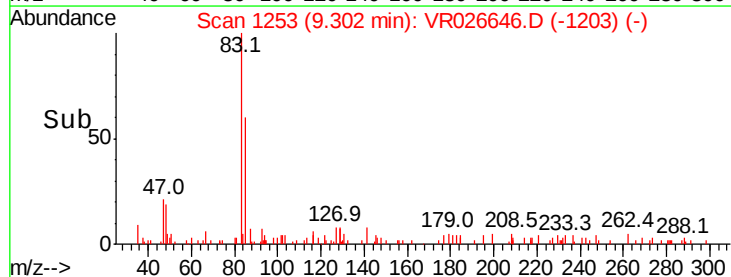
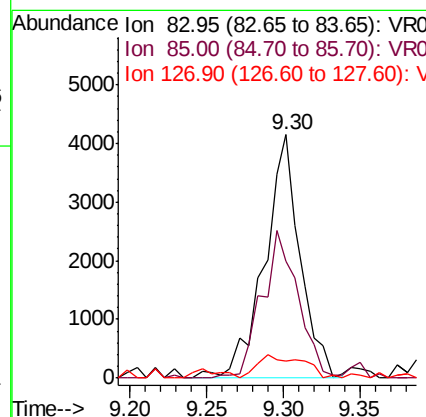
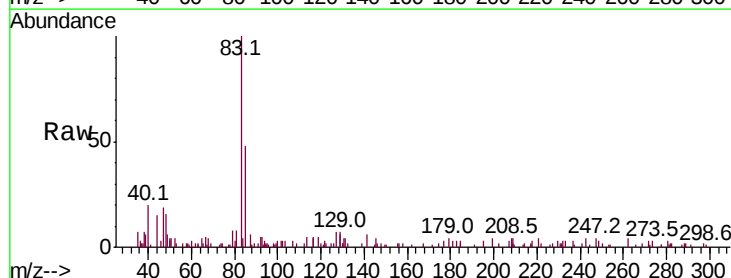
Manual Integrations  
 APPROVED

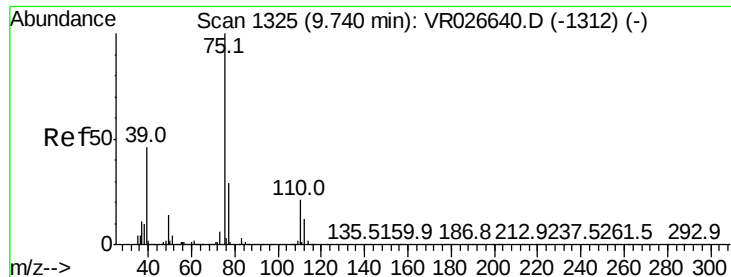
MMDadoda  
 9/20/2019 12:41:58 AM



#38  
 Bromodichloromethane  
 Concen: 0.288 ug/L  
 RT: 9.30 min Scan# 1253  
 Delta R.T. 0.01 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 48.2  | 44.0  | 81.8  |
| 127     | 6.8   | 6.4   | 9.6   |





#39

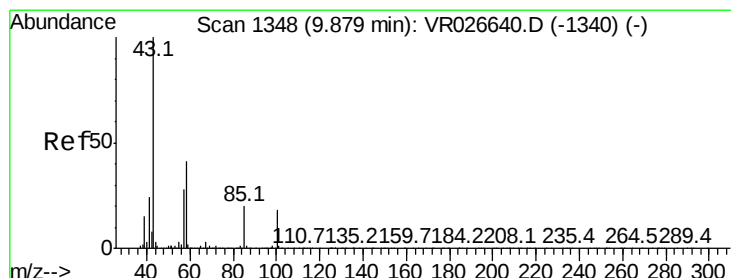
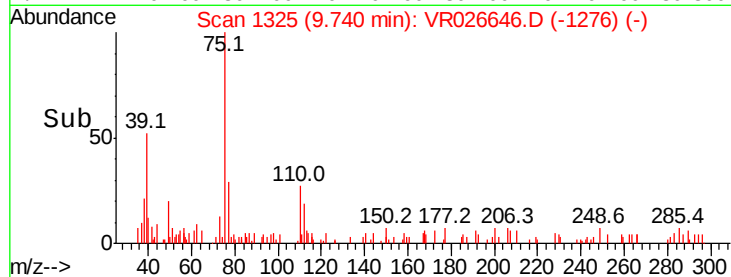
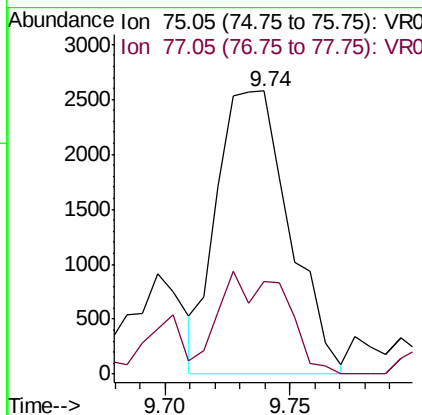
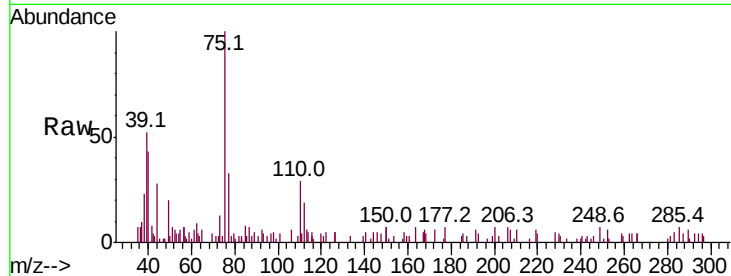
cis-1,3-Dichloropropene  
Concen: 0.223 ug/L m  
RT: 9.74 min Scan# 1325  
Delta R.T. 0.00 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampled :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.9  | 21.8  | 40.6  |

Manual Integrations  
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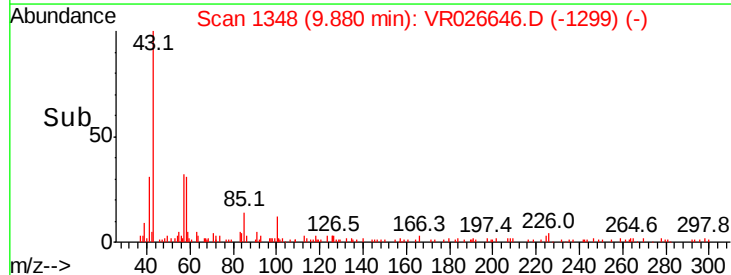
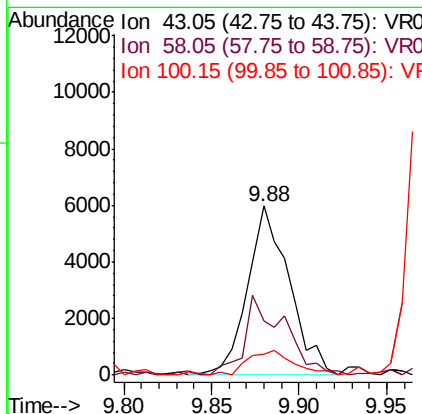
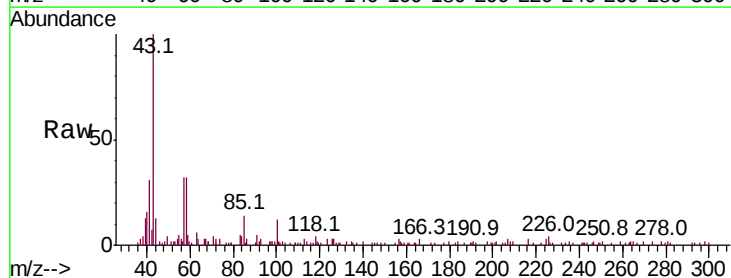
MMDadoda  
9/20/2019 12:41:58 AM

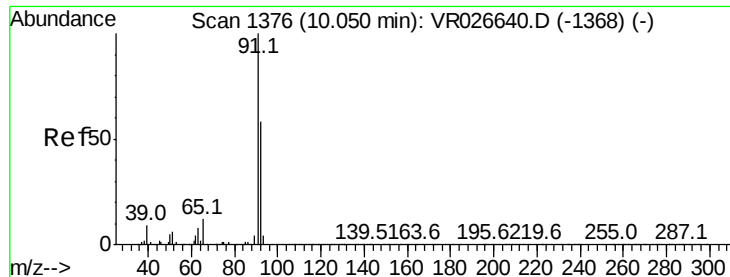


#40

4-Methyl-2-pentanone  
Concen: 1.802 ug/L  
RT: 9.88 min Scan# 1348  
Delta R.T. 0.00 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 44.9  | 32.6  | 48.8  |
| 100     | 0.0   | 11.7  | 17.5  |





#42

Toluene

Concen: 0.264 ug/L

RT: 10.05 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 24992

Ion Ratio Lower Upper

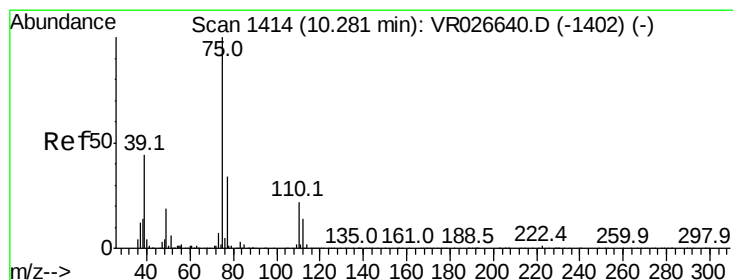
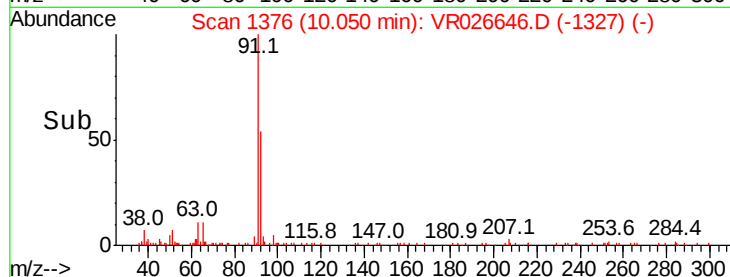
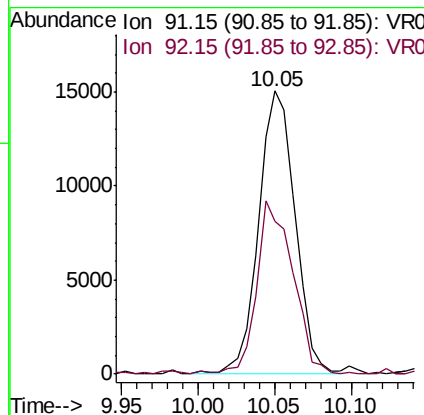
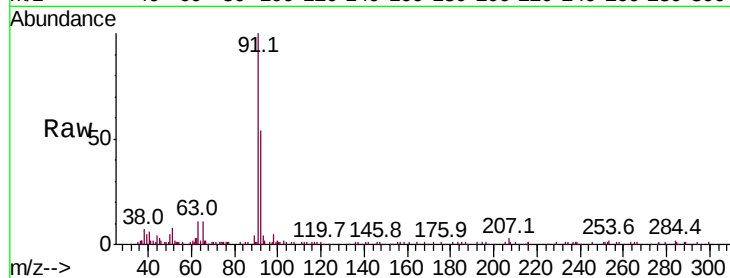
91 100

92 54.2 40.8 75.8

Manual Integrations  
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#44

trans-1,3-Dichloropropene

Concen: 0.301 ug/L m

RT: 10.28 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VR026646.D

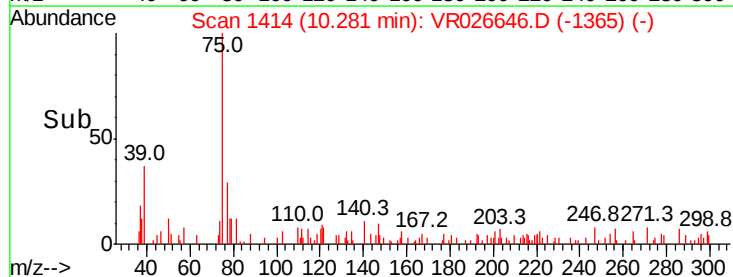
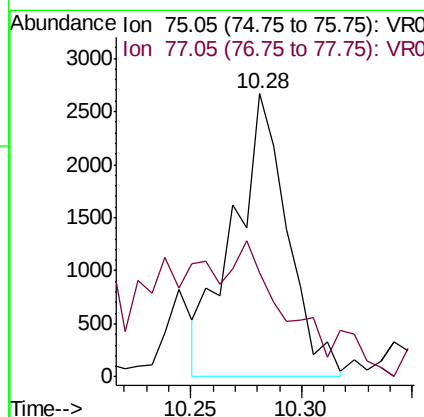
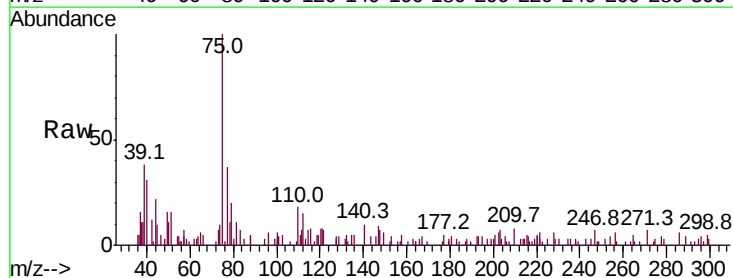
Acq: 17 Sep 2019 18:46

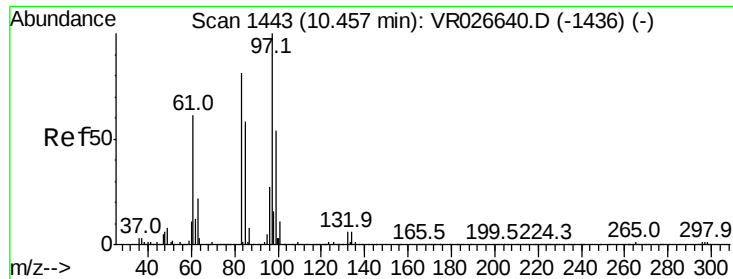
Tgt Ion: 75 Resp: 4488

Ion Ratio Lower Upper

75 100

77 36.7 23.1 42.9





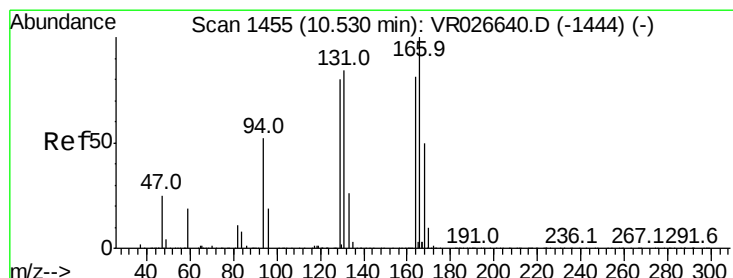
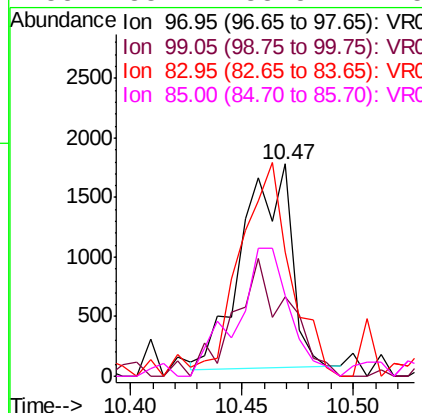
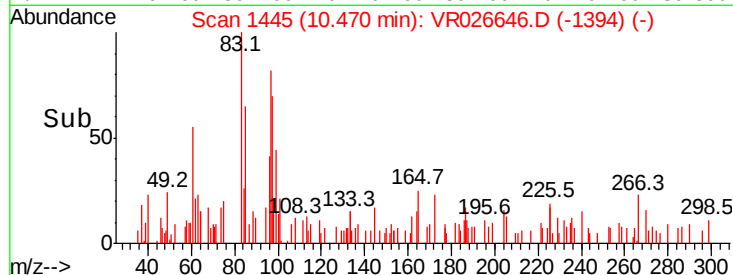
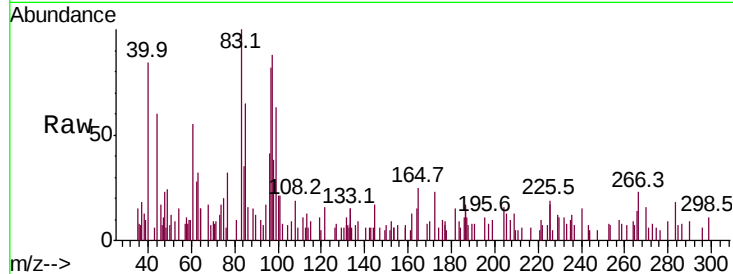
#45  
 1,1,2-Trichloroethane  
 Concen: 0.281 ug/L  
 RT: 10.47 min Scan# 1445  
 Delta R.T. 0.01 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

Instrument :  
 MSVOA\_R  
 ClientSampled :  
 MDL06

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 97      | 100   |       |        |
| 99      | 37.2  | 45.6  | 84.6#  |
| 83      | 58.8  | 64.5  | 119.9# |
| 85      | 38.2  | 38.5  | 71.5#  |

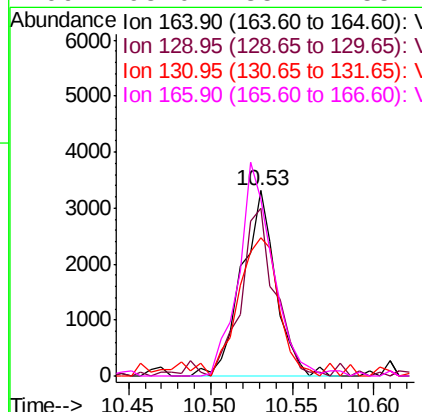
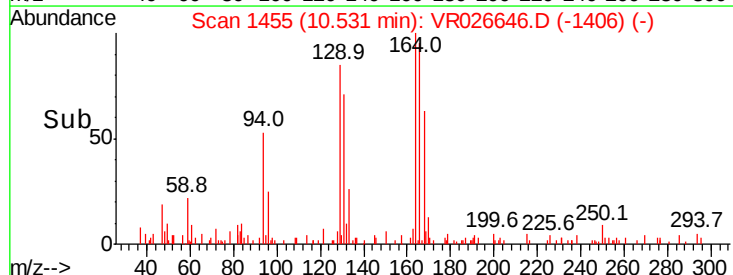
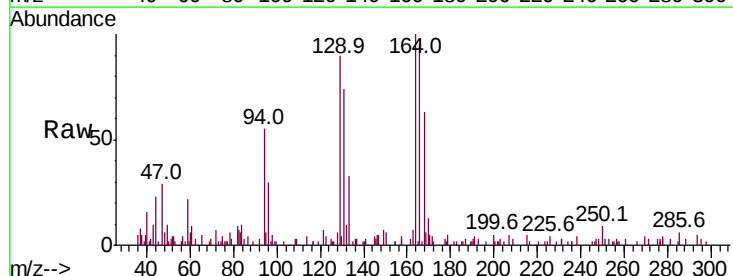
Manual Integrations  
 APPROVED

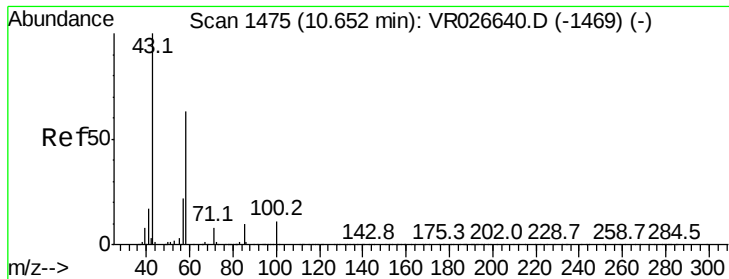
MMDadoda  
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#47  
 Tetrachloroethene  
 Concen: 0.302 ug/L  
 RT: 10.53 min Scan# 1455  
 Delta R.T. 0.00 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 90.3  | 74.8  | 139.0 |
| 131     | 74.5  | 69.1  | 128.3 |
| 166     | 95.0  | 85.2  | 158.2 |





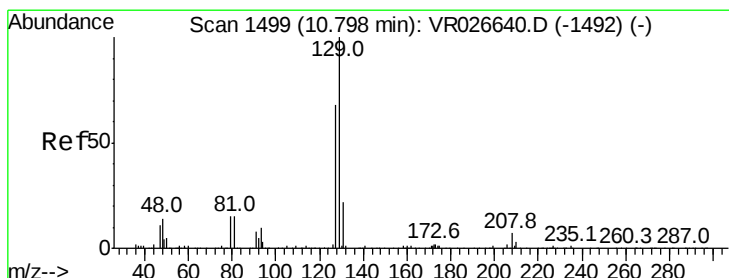
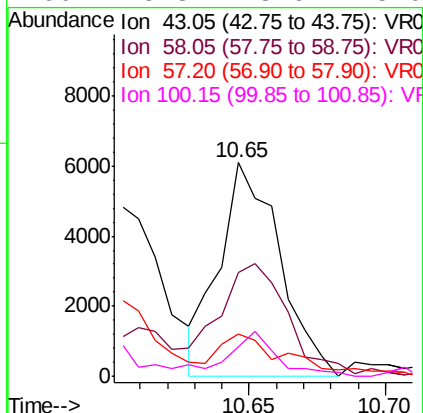
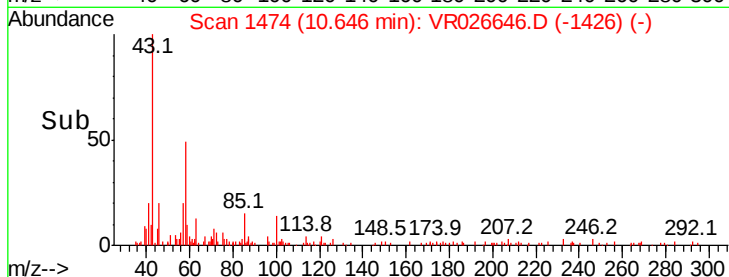
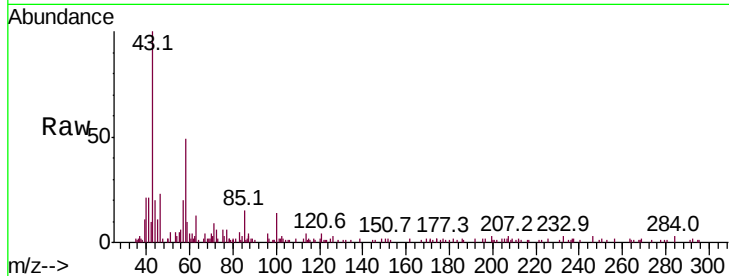
#48  
2-Hexanone  
Concen: 2.683 ug/L  
RT: 10.65 min Scan# 1474  
Delta R.T. -0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 64.3  | 46.4  | 69.6  |
| 57      | 22.8  | 16.7  | 25.1  |
| 100     | 15.3  | 8.6   | 13.0  |

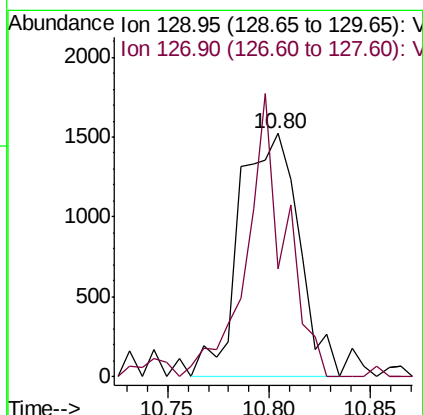
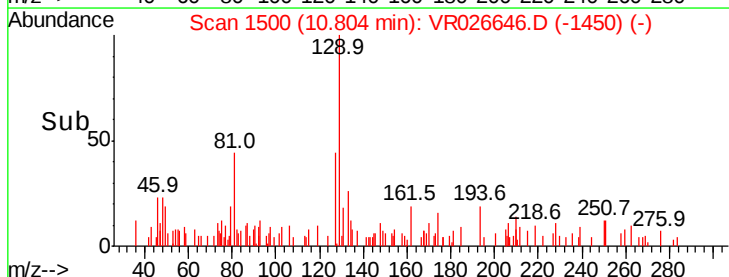
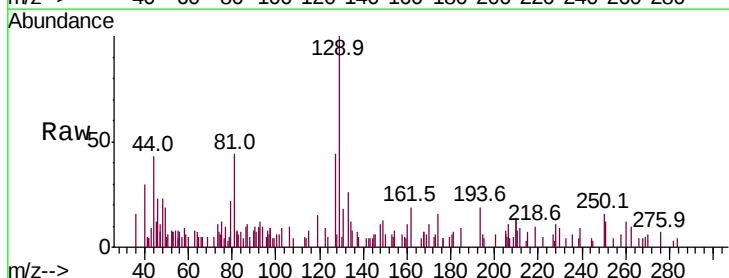
Manual Integrations  
APPROVED

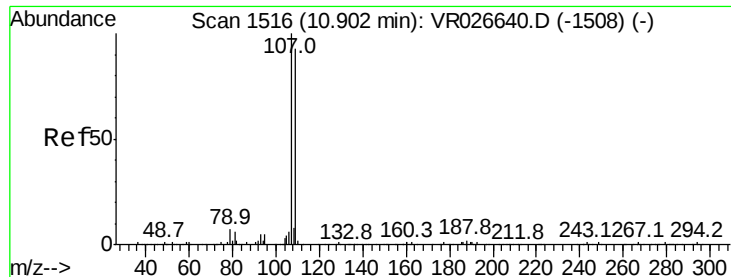
MMDadoda  
9/20/2019 12:41:58 AM



#49  
Dibromochloromethane  
Concen: 0.305 ug/L m  
RT: 10.80 min Scan# 1500  
Delta R.T. 0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 44.4  | 57.0  | 105.9 |





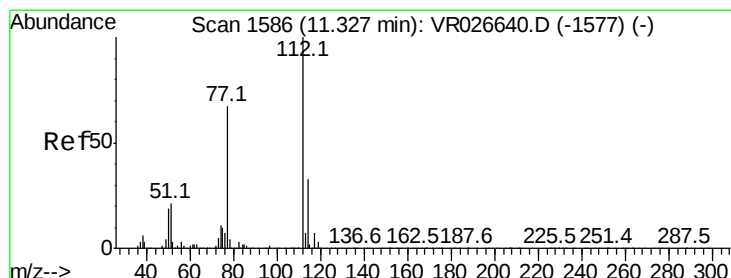
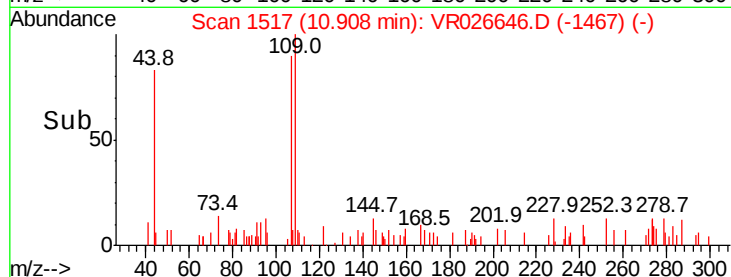
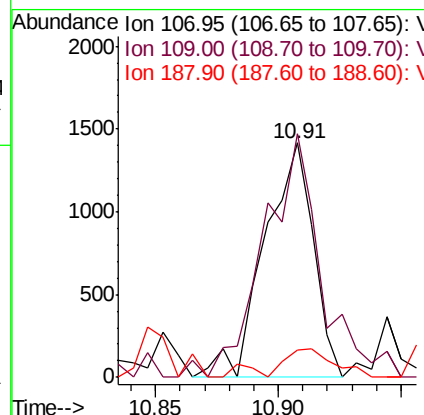
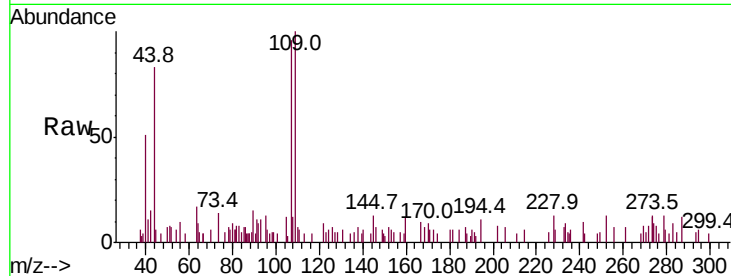
#50  
1,2-Dibromoethane  
Concen: 0.243 ug/L  
RT: 10.91 min Scan# 1517  
Delta R.T. 0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   | 1967 |       |       |
| 109     | 104.0 | 67.2 | 124.8 |       |
| 188     | 11.4  | 1.8  | 2.8#  |       |

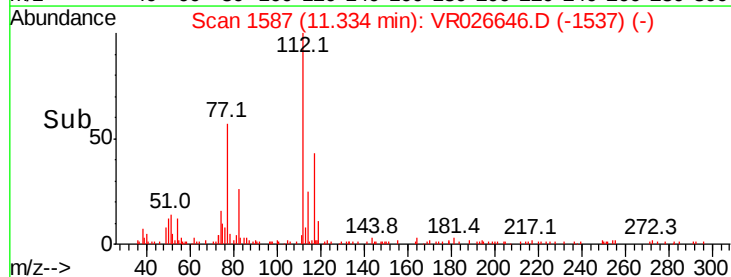
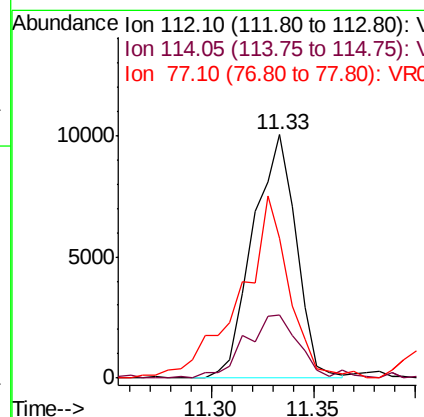
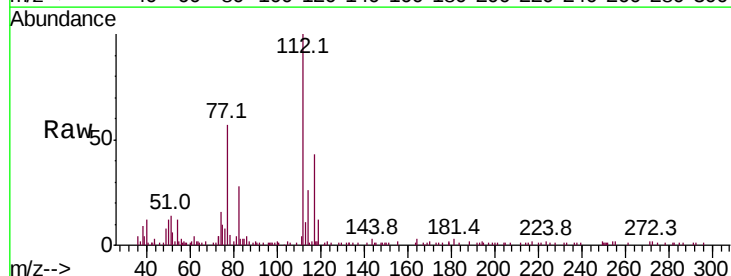
Manual Integrations  
APPROVED

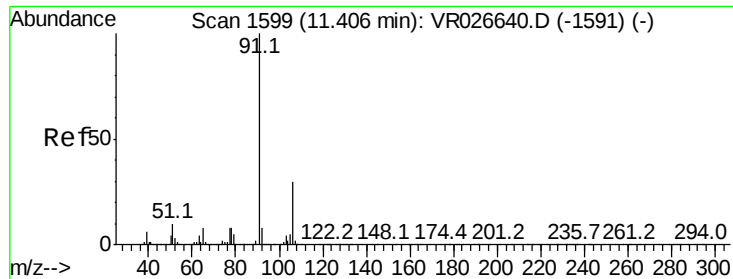
MMDadoda  
9/20/2019 12:41:58 AM



#51  
Chlorobenzene  
Concen: 0.268 ug/L  
RT: 11.33 min Scan# 1587  
Delta R.T. 0.01 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 14767 |       |       |
| 114     | 26.0  | 22.7  | 42.1  |       |
| 77      | 57.3  | 54.0  | 81.0  |       |





#52

Ethylbenzene

Concen: 0.191 ug/L

RT: 11.41 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 20560

Ion Ratio Lower Upper

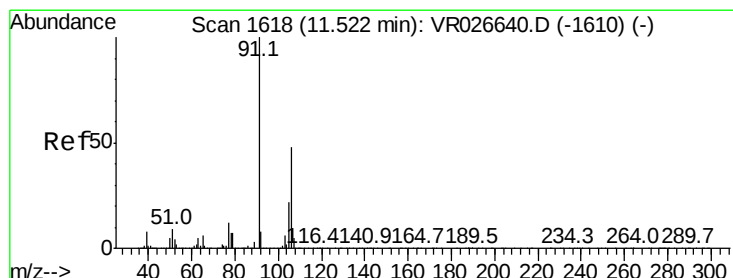
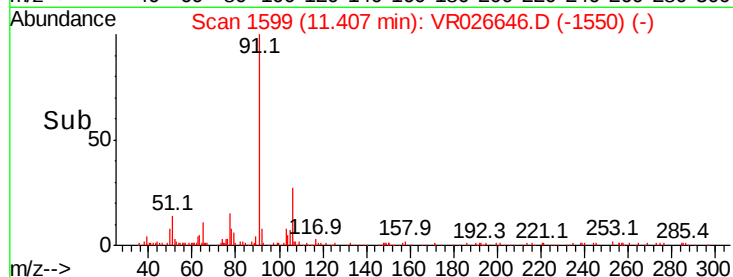
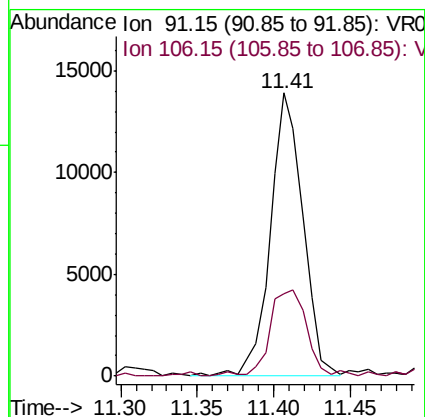
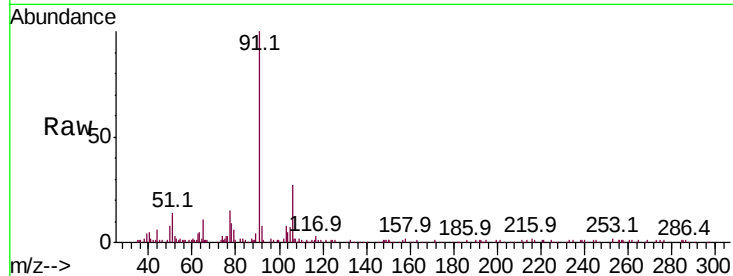
91 100

106 29.0 21.0 39.0

Manual Integrations  
APPROVED

MMDadoda

9/20/2019 12:41:58 AM



#53

m,p-Xylene

Concen: 0.160 ug/L

RT: 11.52 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VR026646.D

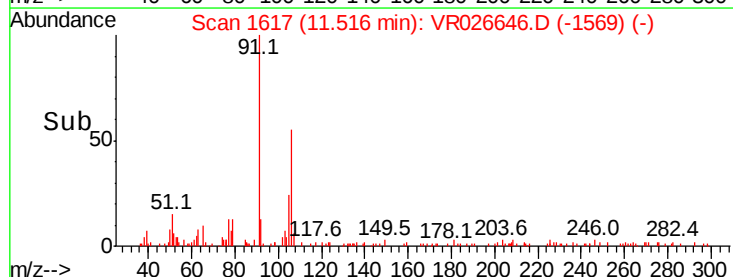
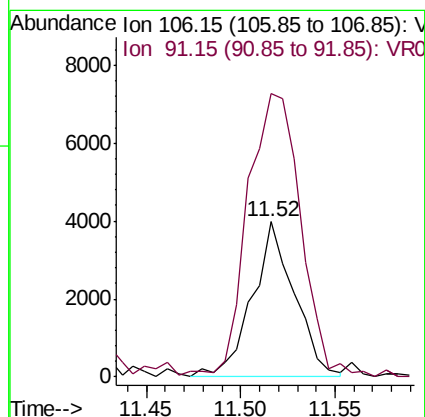
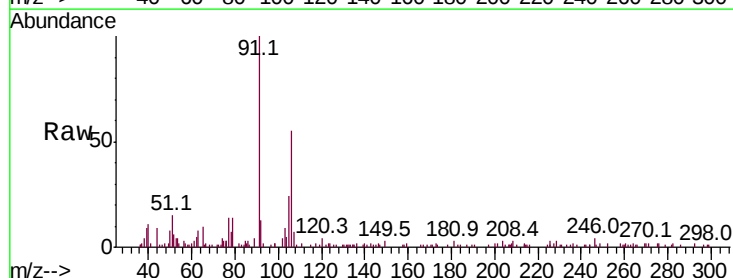
Acq: 17 Sep 2019 18:46

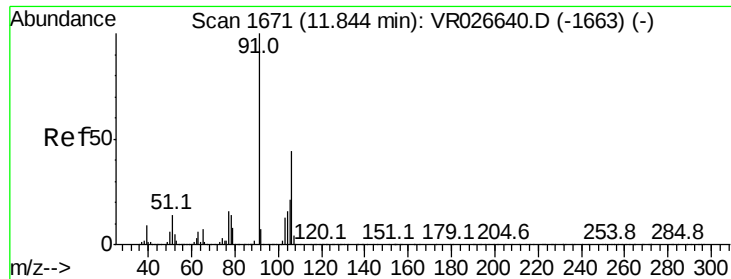
Tgt Ion: 106 Resp: 6170

Ion Ratio Lower Upper

106 100

91 182.5 146.5 272.1





#54

o-Xylene

Concen: 0.170 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampled :

MDL06

Tot Ion:106 Resp: 6456

Ion Ratio Lower Upper

106 100

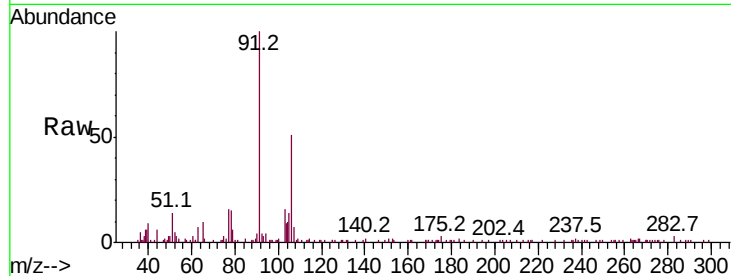
91 194.9 154.3 286.5

Manual Integrations

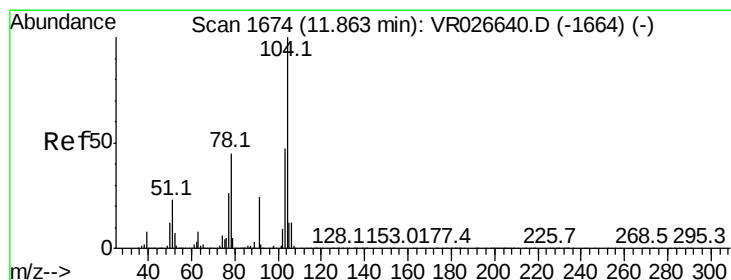
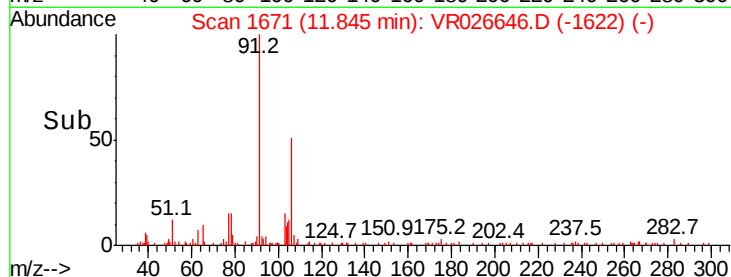
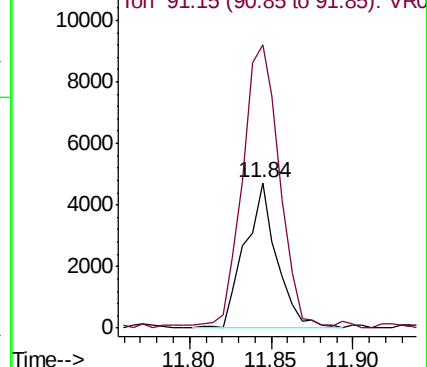
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Abundance Ion 106.15 (105.85 to 106.85): V



#55

Styrene

Concen: 0.169 ug/L

RT: 11.86 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VR026646.D

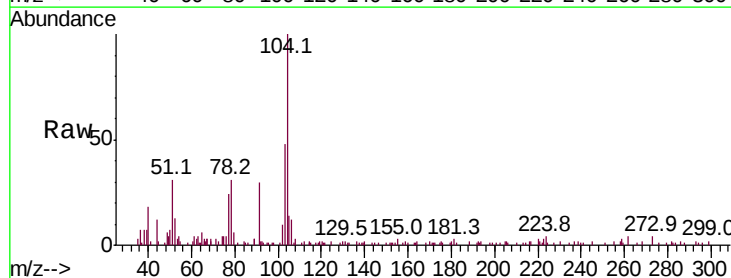
Acq: 17 Sep 2019 18:46

Tgt Ion:104 Resp: 9215

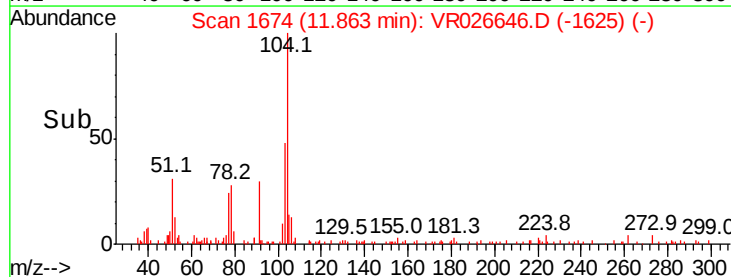
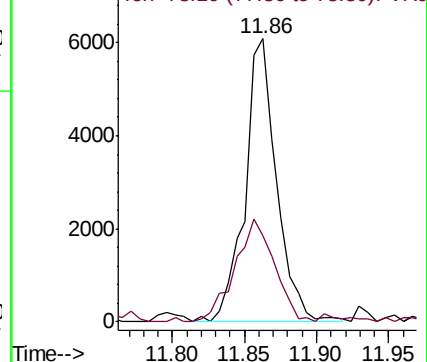
Ion Ratio Lower Upper

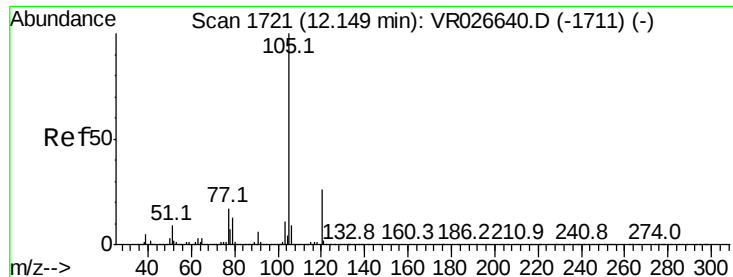
104 100

78 30.5 32.5 60.3#



Abundance Ion 104.10 (103.80 to 104.80): V





#56

Isopropylbenzene

Concen: 0.165 ug/L

RT: 12.15 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

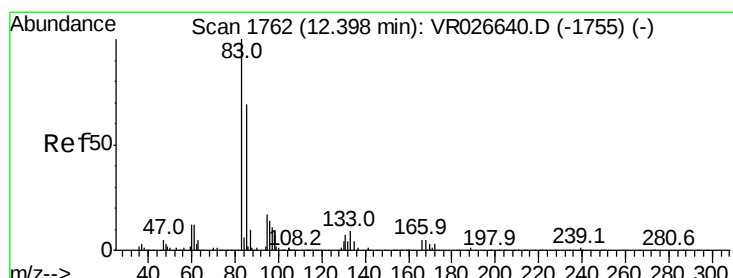
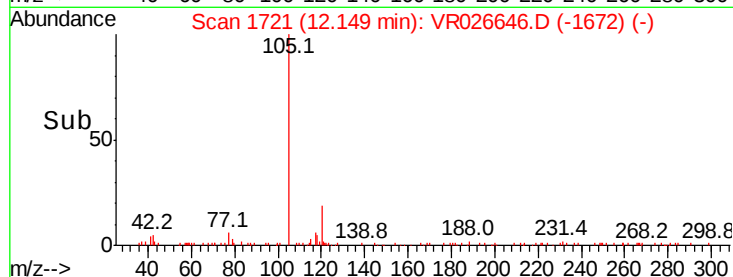
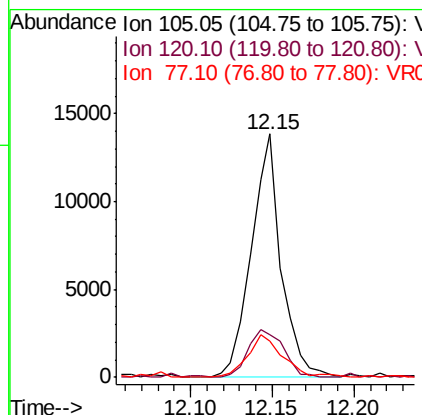
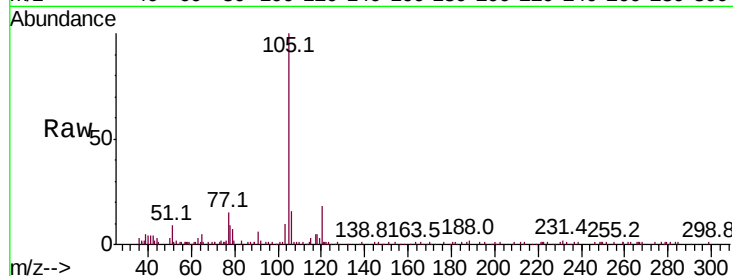
ClientSampleId :

MDL06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 17662 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 23.7  | 20.7  | 31.1  |
| 77        | 20.2  | 13.3  | 19.9# |

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#58

1,1,2,2-Tetrachloroethane

Concen: 0.294 ug/L

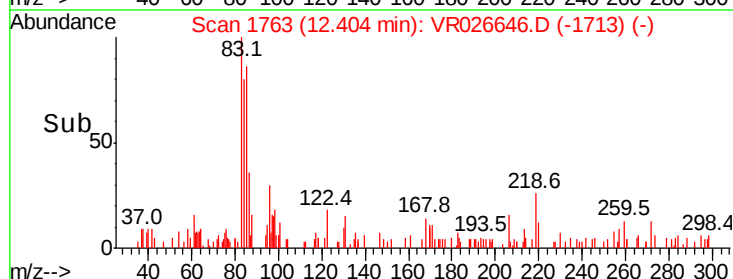
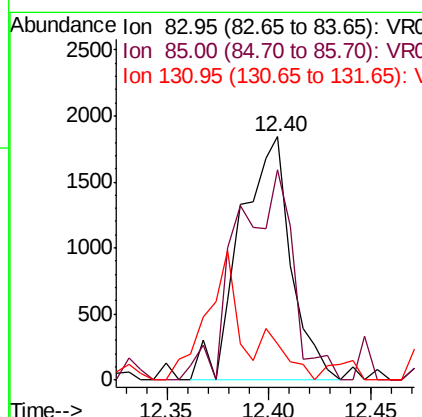
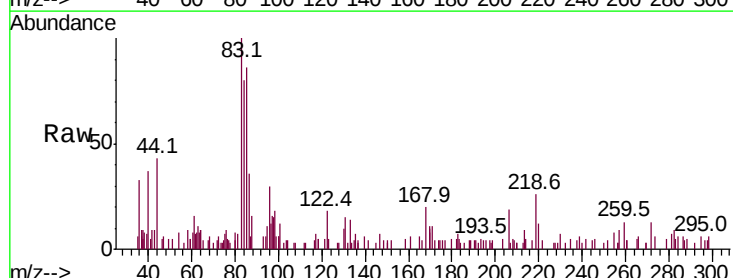
RT: 12.40 min Scan# 1763

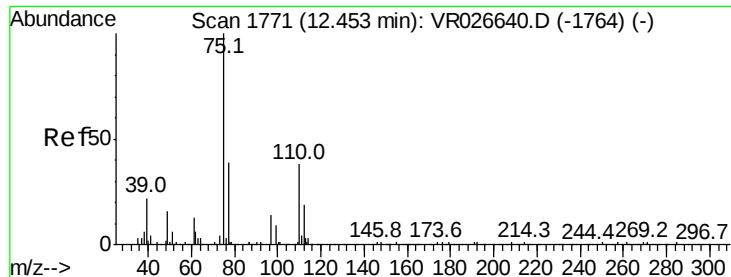
Delta R.T. 0.01 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 3180  |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 86.2  | 46.1  | 85.7# |
| 131       | 15.1  | 6.8   | 10.2# |





#59

1,2,3-Trichloropropane

Concen: 0.309 ug/L m

RT: 12.45 min Scan# 1771

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

ClientSampled :

MDL06

Tot Ion: 75 Resp: 2455

Ion Ratio Lower Upper

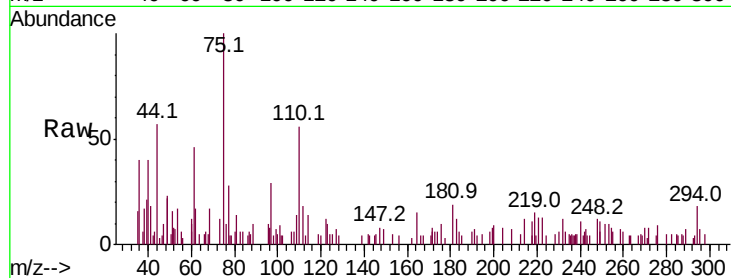
75 100

77 5.6 25.8 38.6#

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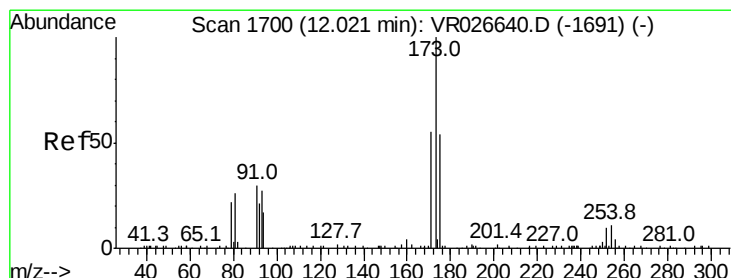
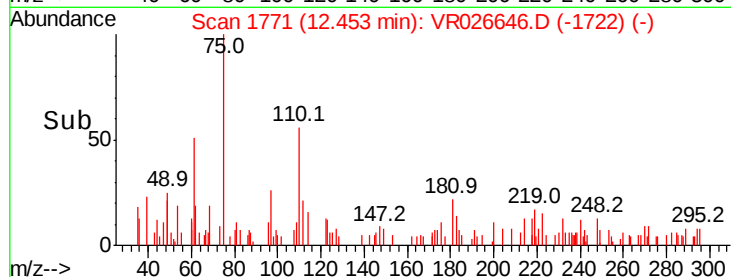
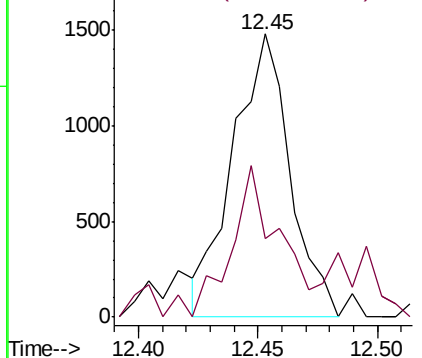
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Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0



#61

Bromoform

Concen: 0.355 ug/L

RT: 12.03 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

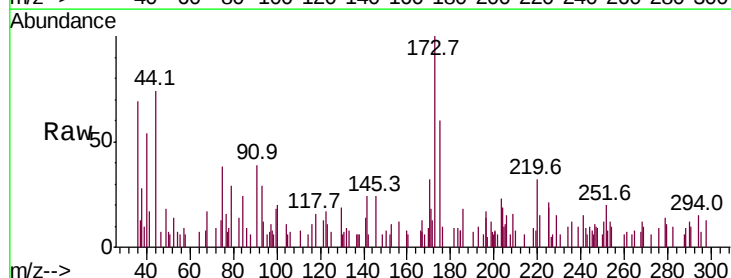
Tgt Ion: 173 Resp: 1516

Ion Ratio Lower Upper

173 100

175 40.8 40.2 60.2

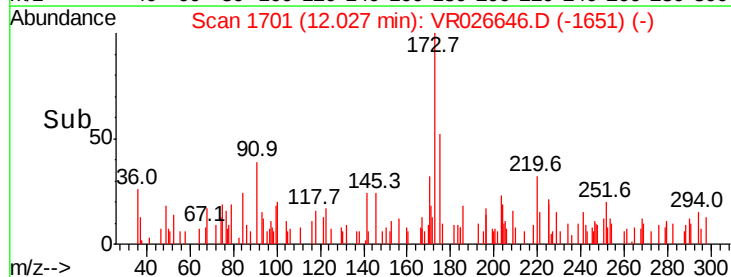
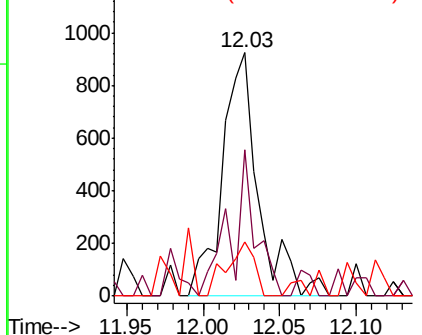
254 17.0 8.7 13.1#

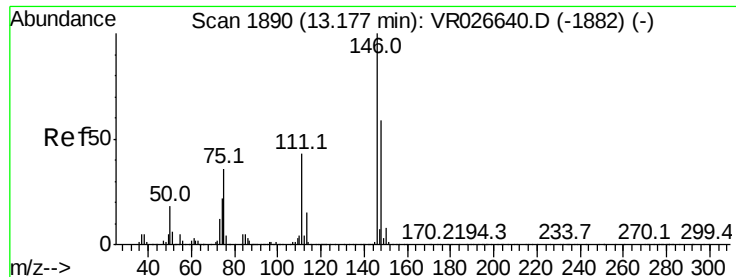


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 0.221 ug/L

RT: 13.18 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

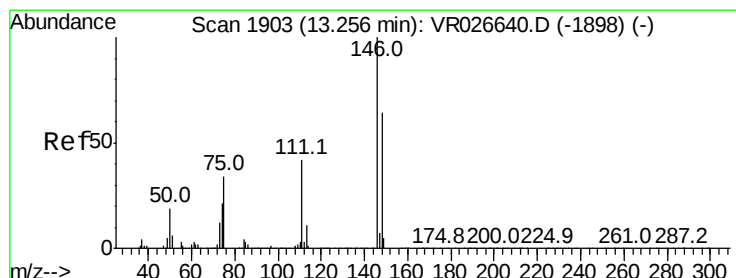
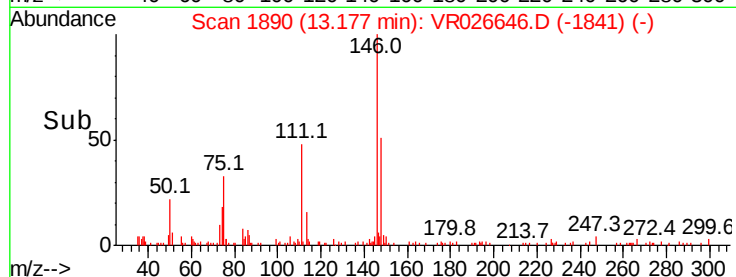
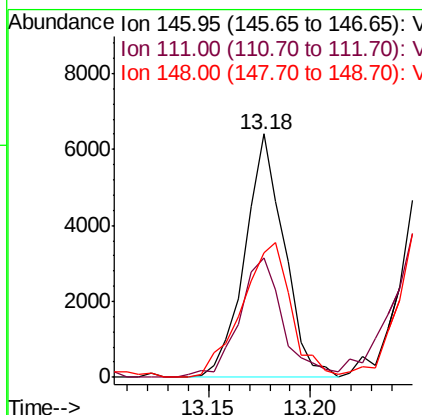
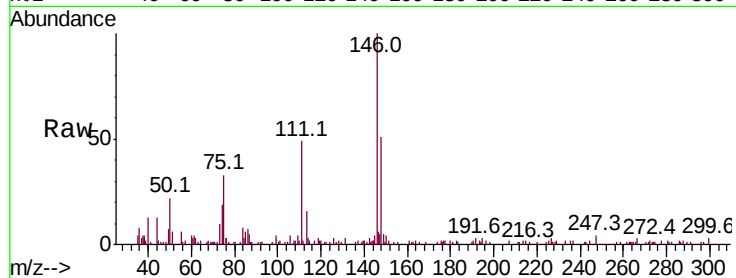
ClientSampled :

MDL06

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 146   | Resp: | 8576 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 49.2  | 29.5  | 54.9 |
| 148       | 51.4  | 42.8  | 79.4 |

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#63

1,4-Dichlorobenzene

Concen: 0.267 ug/L

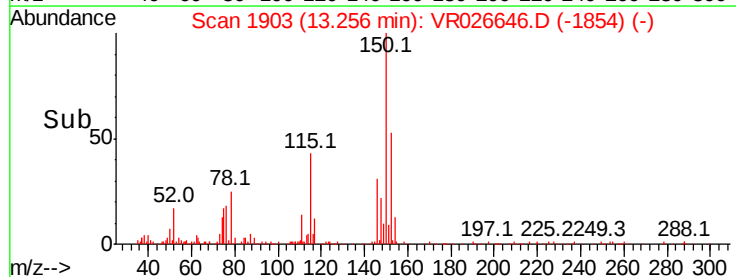
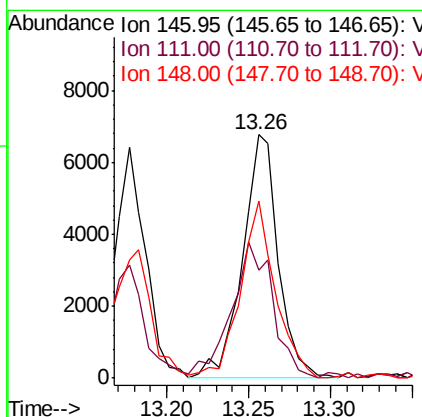
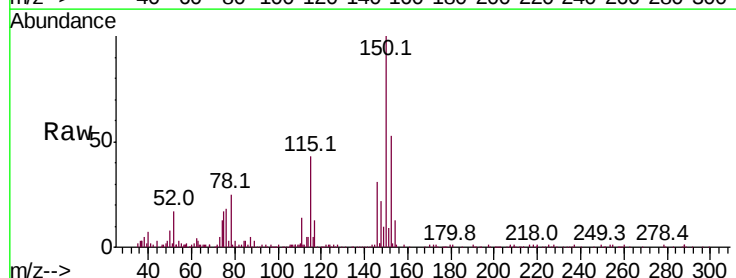
RT: 13.26 min Scan# 1903

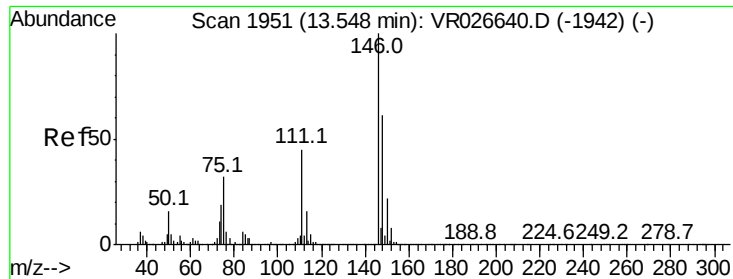
Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 10326 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 44.3  | 31.1  | 57.9  |
| 148       | 72.5  | 44.6  | 82.8  |





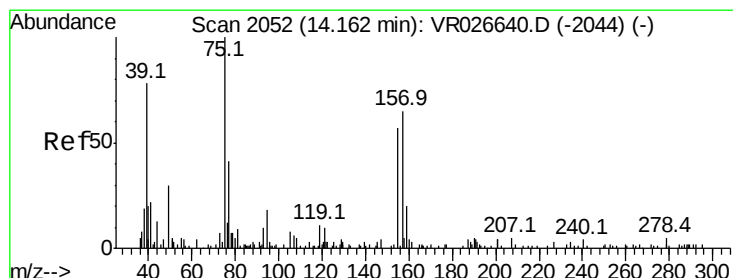
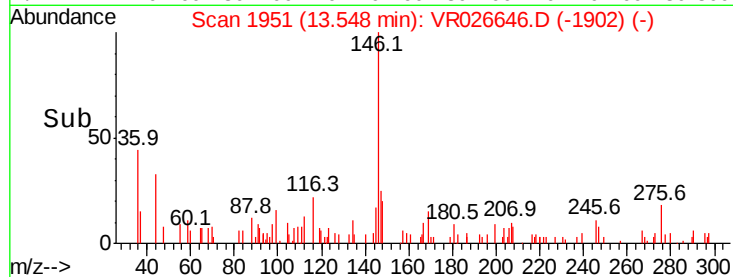
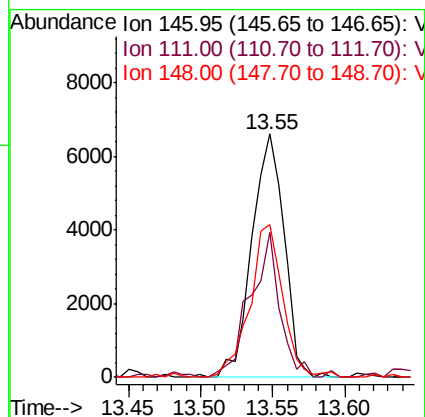
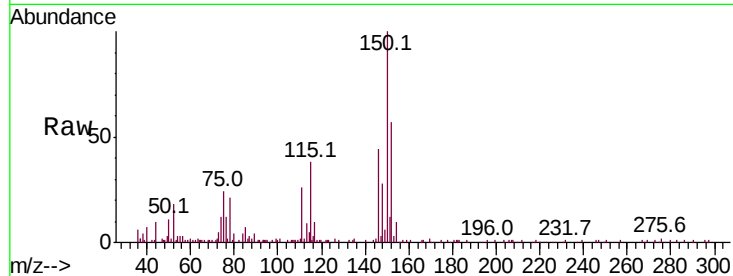
#65  
 1,2-Dichlorobenzene  
 Concen: 0.308 ug/L  
 RT: 13.55 min Scan# 1951  
 Delta R.T. 0.00 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 MDL06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 10139 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 59.6  | 38.2  | 57.2# |
| 148       | 63.0  | 50.1  | 75.1  |

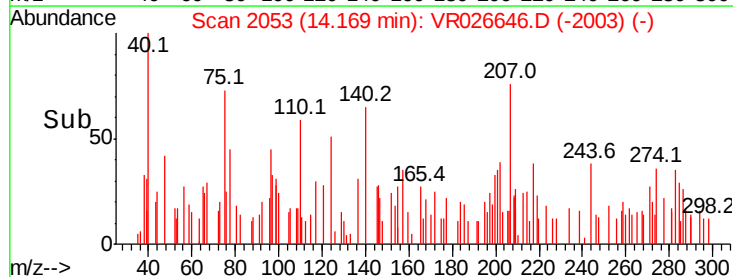
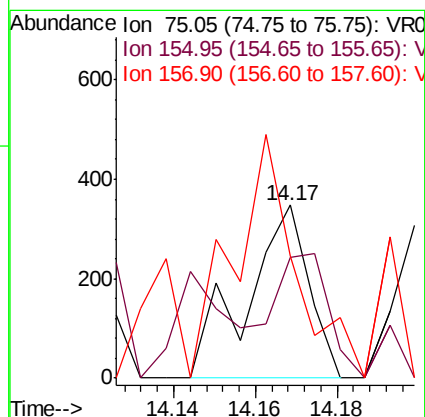
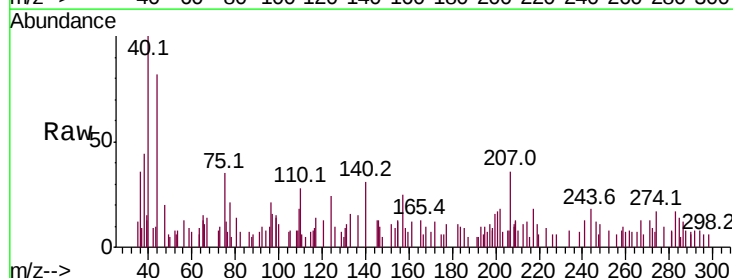
Manual Integrations  
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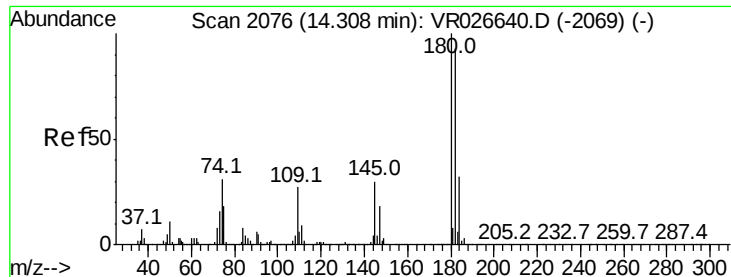
MMDadoda  
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#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 0.224 ug/L  
 RT: 14.17 min Scan# 2053  
 Delta R.T. 0.01 min  
 Lab File: VR026646.D  
 Acq: 17 Sep 2019 18:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 368  |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 155       | 70.1  | 49.4  | 74.2 |
| 157       | 70.7  | 65.2  | 97.8 |





#67

1,3,5-Trichlorobenzene

Concen: 0.264 ug/L

RT: 14.31 min Scan# 2076

Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

Instrument :

MSVOA\_R

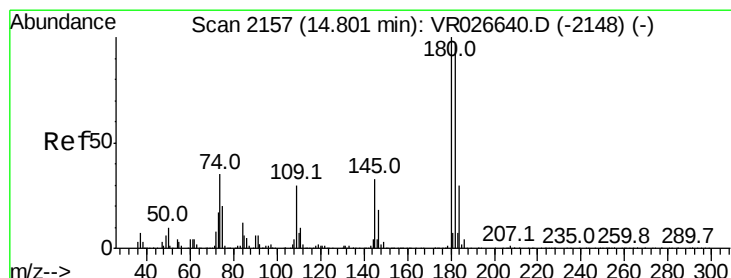
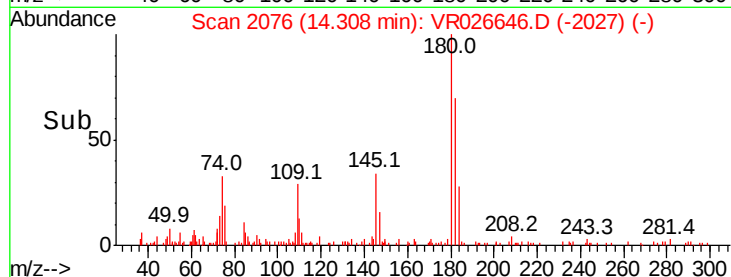
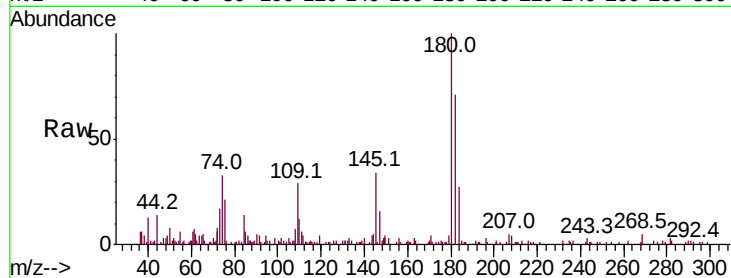
ClientSampleId :

MDL06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 180   | Resp: | 8323  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 82.6  | 76.3  | 114.5 |
| 184       | 34.6  | 24.4  | 36.6  |
| 145       | 33.0  | 25.1  | 37.7  |

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#68

1,2,4-trichlorobenzene

Concen: 0.235 ug/L

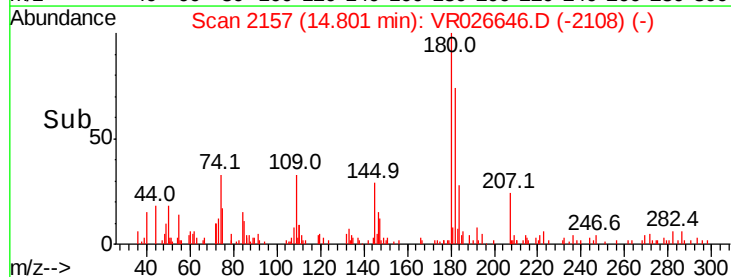
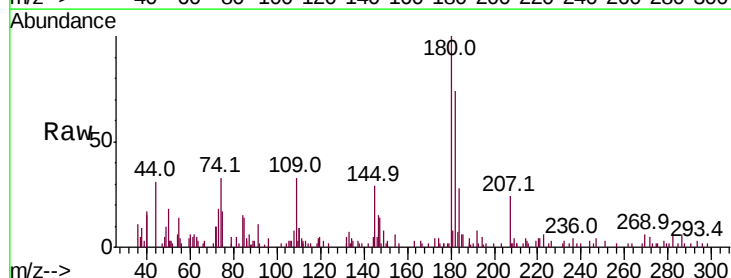
RT: 14.80 min Scan# 2157

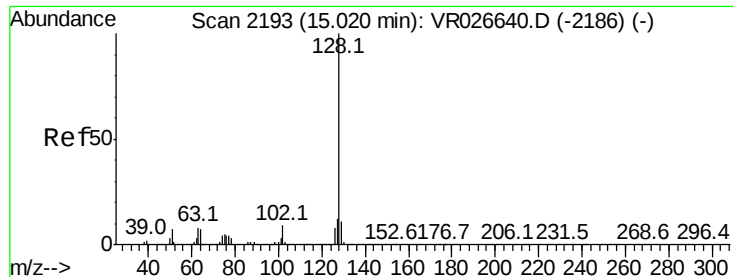
Delta R.T. 0.00 min

Lab File: VR026646.D

Acq: 17 Sep 2019 18:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 5224  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 86.6  | 75.1  | 112.7 |
| 145       | 35.2  | 25.9  | 38.9  |





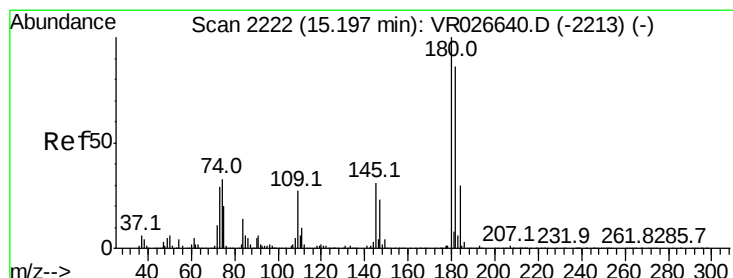
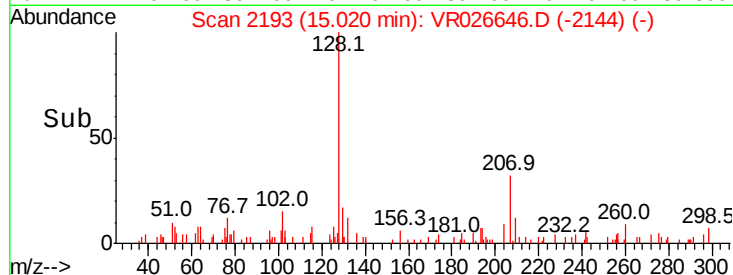
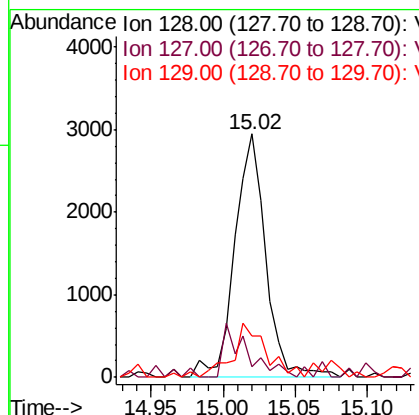
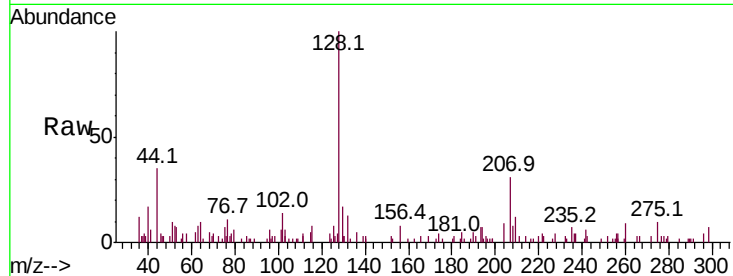
#69  
Naphthalene  
Concen: 0.150 ug/L  
RT: 15.02 min Scan# 2193  
Delta R.T. 0.00 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

Instrument :  
MSVOA\_R  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   | 4425 |       |       |
| 127     | 17.5  | 10.8 | 16.2# |       |
| 129     | 24.4  | 8.9  | 13.3# |       |

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#70  
1,2,3-Trichlorobenzene  
Concen: 0.243 ug/L m  
RT: 15.20 min Scan# 2222  
Delta R.T. 0.00 min  
Lab File: VR026646.D  
Acq: 17 Sep 2019 18:46

| Tgt Ion | Ratio | Resp | Lower  | Upper |
|---------|-------|------|--------|-------|
| 180     | 100   | 4772 |        |       |
| 182     | 3.2   | 76.2 | 114.4# |       |
| 145     | 1.6   | 28.6 | 42.8#  |       |

