

Data File : VV008394.D  
Acq On : 24 Oct 2018 16:13  
Operator : SY/MD  
Sample : MDL05  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

Quant Time: Oct 25 08:53:11 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 25 08:48:14 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 193448   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 173456   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 74726    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 45737    | 42.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.40%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 36541    | 47.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 94.50%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 66505    | 34.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.76%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 116828   | 100.36   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.36% |
| 24) Chloroform-d               | 4.41    | 84    | 120879   | 45.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.52%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 84875    | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.10%  |
| 32) Benzene-d6                 | 5.10    | 84    | 242762   | 49.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.22%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 84633    | 49.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.66%  |
| 41) Toluene-d8                 | 7.36    | 98    | 216649   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.54%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 39659    | 47.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.16%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 91269    | 101.87   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.87% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 115325   | 49.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.26%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 73834    | 48.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.60%  |

#### Target Compounds

|                                |      |     |      |              | Qvalue |
|--------------------------------|------|-----|------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 1755 | 1.270 ug/L   | 91     |
| 3) Chloromethane               | 1.25 | 50  | 1926 | 1.302 ug/L   | 96     |
| 5) Vinyl chloride              | 1.33 | 62  | 1739 | 1.268 ug/L # | 43     |
| 6) Bromomethane                | 1.52 | 94  | 609  | 1.619 ug/L   | 95     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 2125 | 1.204 ug/L   | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 1639 | 1.778 ug/L # | 84     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 1648 | 1.899 ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43  | 2689 | 2.976 ug/L   | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 5210 | 1.333 ug/L   | 100    |
| 15) Methyl Acetate             | 2.46 | 43  | 2592 | 1.439 ug/L # | 88     |
| 16) Methylene chloride         | 2.54 | 84  | 1970 | 1.310 ug/L   | 90     |
| 17) trans-1,2-Dichloroethene   | 2.80 | 96  | 1878 | 1.419 ug/L   | 86     |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 5750 | 1.214 ug/L # | 91     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 3332 | 1.221 ug/L   | 90     |
| 20) cis-1,2-Dichloroethene     | 3.97 | 96  | 1967 | 1.305 ug/L   | 91     |
| 22) 2-Butanone                 | 4.03 | 43  | 3293 | 2.523 ug/L # | 52     |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 2924 | 1.314 ug/L   | 98     |

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Quant Title : VOC Analysis  
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Response via : Initial Calibration

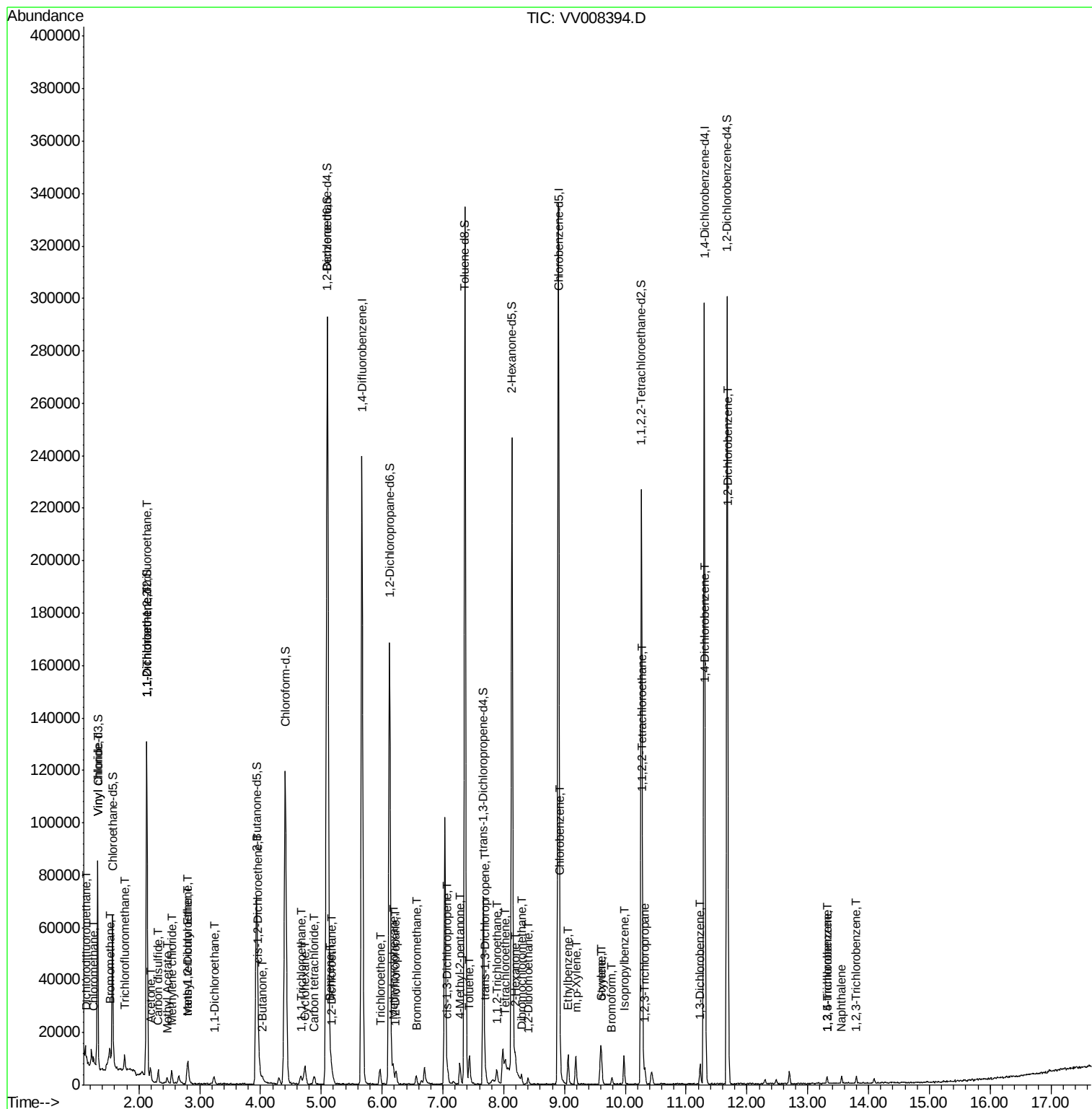
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 29) Cyclohexane               | 4.73  | 56   | 3348     | 1.326 | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane     | 4.67  | 97   | 2724     | 1.211 | ug/L   | 93       |
| 31) Carbon tetrachloride      | 4.88  | 117  | 2172     | 1.138 | ug/L   | 88       |
| 33) Benzene                   | 5.15  | 78   | 7717     | 1.361 | ug/L   | 100      |
| 34) Trichloroethene           | 5.97  | 95   | 2135     | 1.471 | ug/L   | 86       |
| 35) Methylcyclohexane         | 6.18  | 83   | 2853     | 1.156 | ug/L   | 89       |
| 37) 1,2-Dichloropropane       | 6.23  | 63   | 2022     | 1.291 | ug/L # | 89       |
| 38) Bromodichloromethane      | 6.56  | 83   | 2477     | 1.241 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.07  | 75   | 3025     | 1.229 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone      | 7.28  | 43   | 6248     | 2.694 | ug/L # | 93       |
| 42) Toluene                   | 7.43  | 91   | 7681     | 1.304 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene | 7.70  | 75   | 2682     | 1.164 | ug/L   | 88       |
| 45) 1,1,2-Trichloroethane     | 7.89  | 97   | 1595     | 1.152 | ug/L   | 90       |
| 46) Tetrachloroethene         | 8.02  | 164  | 1186     | 1.253 | ug/L   | 94       |
| 48) 2-Hexanone                | 8.19  | 43   | 5433     | 3.036 | ug/L   | 91       |
| 49) Dibromochloromethane      | 8.30  | 129  | 1697     | 1.141 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 8.40  | 107  | 1789     | 1.232 | ug/L # | 99       |
| 51) Chlorobenzene             | 8.93  | 112  | 4441     | 1.225 | ug/L   | 96       |
| 52) Ethylbenzene              | 9.06  | 91   | 7978     | 1.209 | ug/L   | 100      |
| 53) m,p-Xylene                | 9.19  | 106  | 2891     | 1.199 | ug/L   | 96       |
| 54) o-xylene                  | 9.59  | 106  | 2801     | 1.164 | ug/L   | 94       |
| 55) Styrene                   | 9.61  | 104  | 4902     | 1.209 | ug/L   | 91       |
| 56) Isopropylbenzene          | 9.98  | 105  | 7308     | 1.161 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane | 10.29 | 83   | 3526     | 1.454 | ug/L # | 95       |
| 59) 1,2,3-Trichloropropane    | 10.32 | 75   | 2587     | 1.318 | ug/L   | 99       |
| 61) Bromoform                 | 9.78  | 173  | 1122     | 1.190 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene       | 11.23 | 146  | 3082     | 1.247 | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene       | 11.32 | 146  | 3231     | 1.305 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene       | 11.69 | 146  | 3171     | 1.259 | ug/L # | 90       |
| 67) 1,3,5-Trichlorobenzene    | 13.31 | 180  | 1021     | 0.633 | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene    | 13.31 | 180  | 1021     | 0.782 | ug/L   | 97       |
| 69) Naphthalene               | 13.56 | 128  | 2705     | 0.641 | ug/L # | 82       |
| 70) 1,2,3-Trichlorobenzene    | 13.80 | 180  | 913      | 0.700 | ug/L   | 91       |

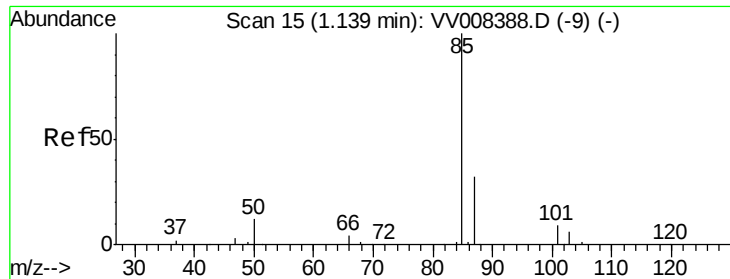
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.270 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampleId :

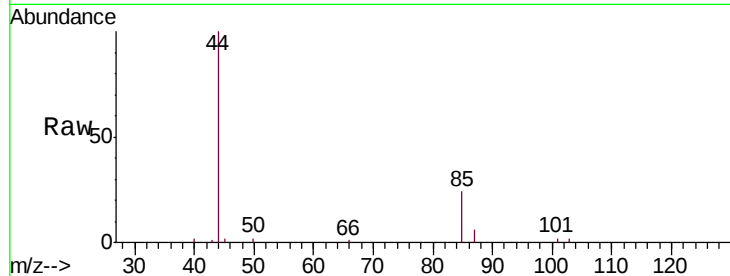
MDL05

Tgt Ion: 85 Resp: 1755

Ion Ratio Lower Upper

85 100

87 27.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VV008388.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV008388.D (-9) (-)

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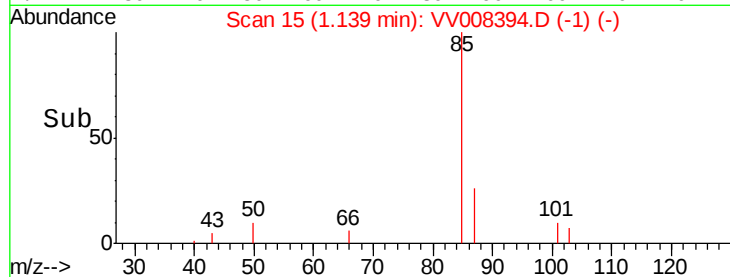
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Abundance Ion 85.00 (84.70 to 85.70): VV008394.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV008394.D (-1) (-)

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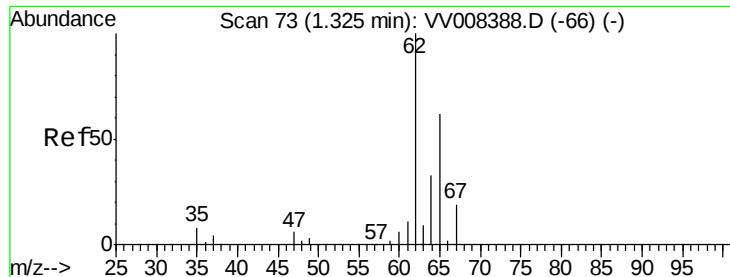
1.14

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#5

Vinyl chloride

Concen: 1.268 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008394.D

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Instrument :

MSVOA\_V

ClientSampleId :

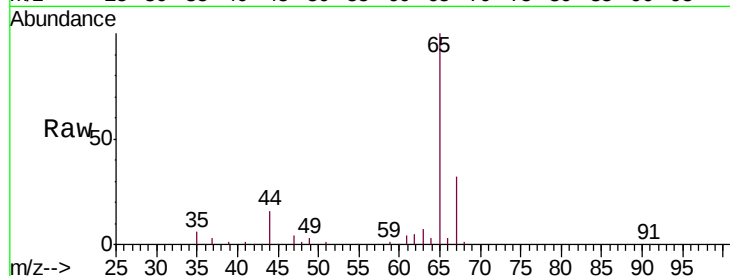
MDL05

Tgt Ion: 62 Resp: 1739

Ion Ratio Lower Upper

62 100

64 67.9 24.4 45.4#



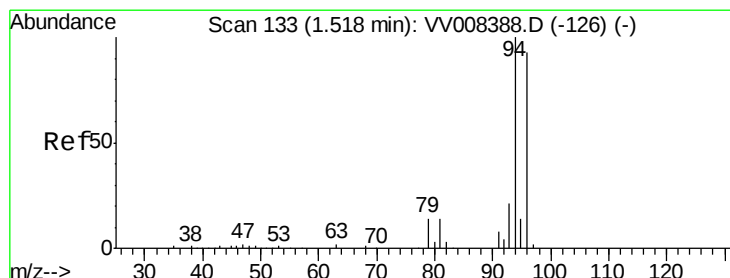
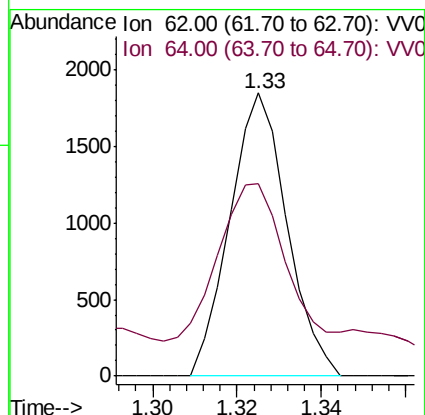
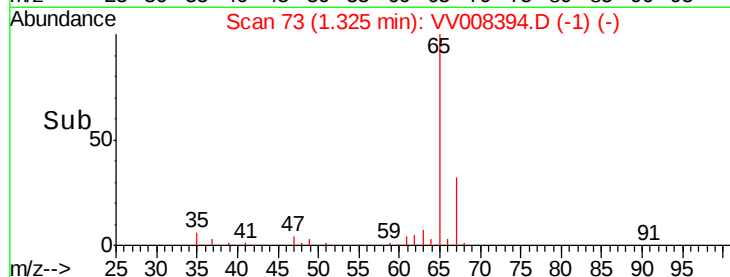
Abundance Ion 62.00 (61.70 to 62.70): VV008388.D (-66) (-)

Ion 64.00 (63.70 to 64.70): VV008394.D (-1) (-)

1.33

1.32

1.34



#6

Bromomethane

Concen: 1.619 ug/L

RT: 1.52 min Scan# 133

Delta R.T. 0.00 min

Lab File: VV008394.D

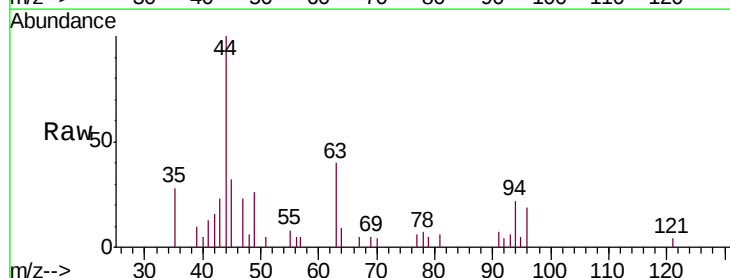
Acq: 24 Oct 2018 16:13

Tgt Ion: 94 Resp: 609

Ion Ratio Lower Upper

94 100

96 86.5 63.8 118.6



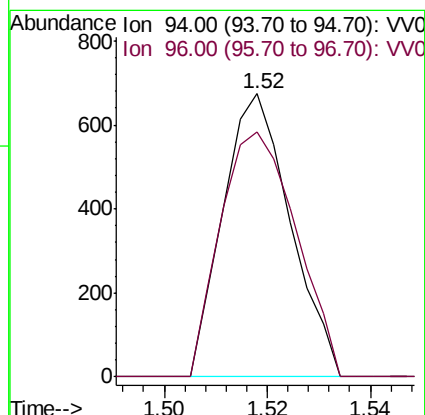
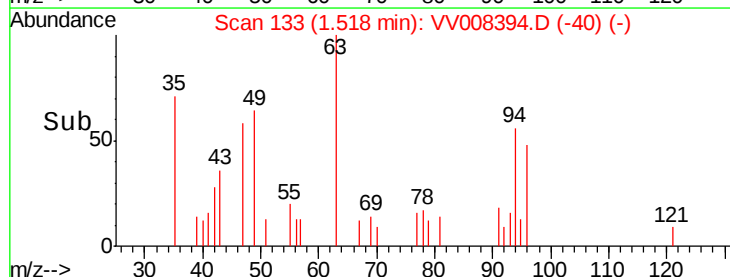
Abundance Ion 94.00 (93.70 to 94.70): VV008388.D (-126) (-)

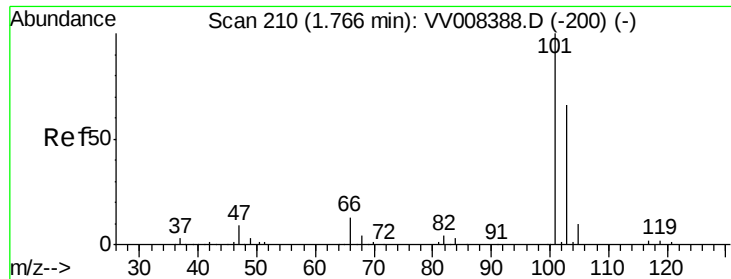
Ion 96.00 (95.70 to 96.70): VV008394.D (-40) (-)

1.52

1.50

1.54



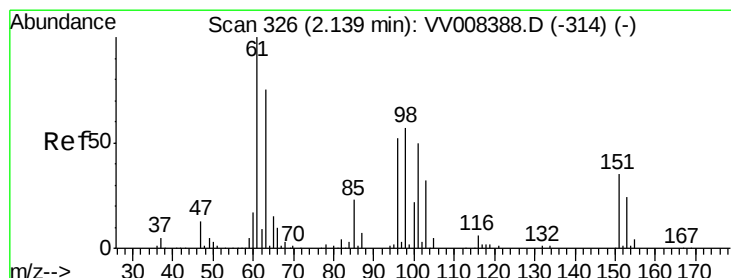
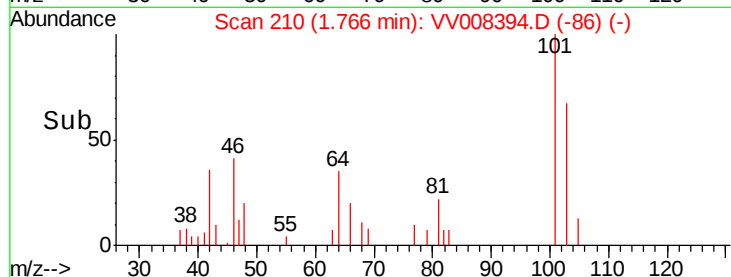
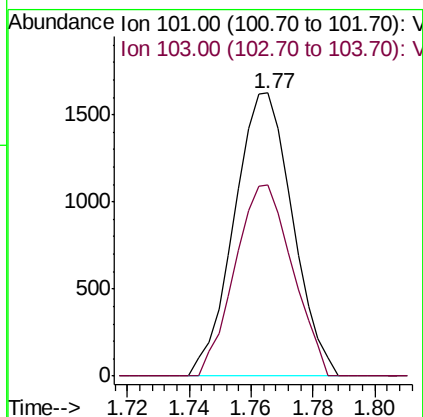
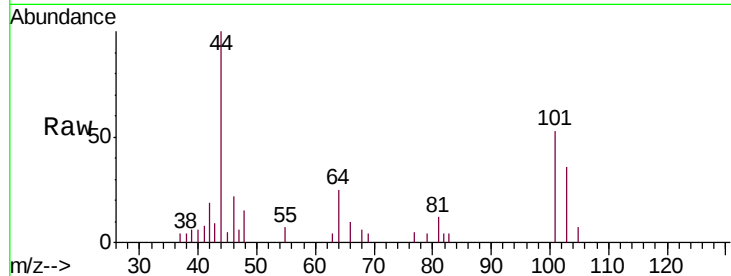


#9

Trichlorofluoromethane  
 Concen: 1.204 ug/L  
 RT: 1.77 min Scan# 210  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
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Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

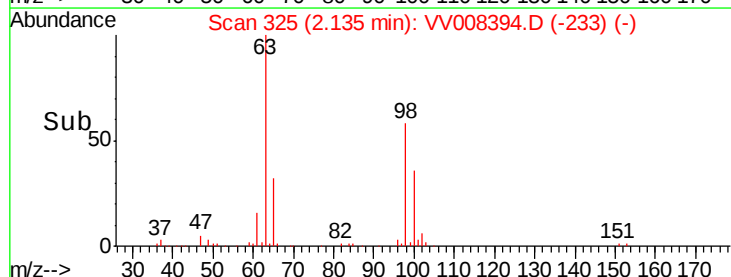
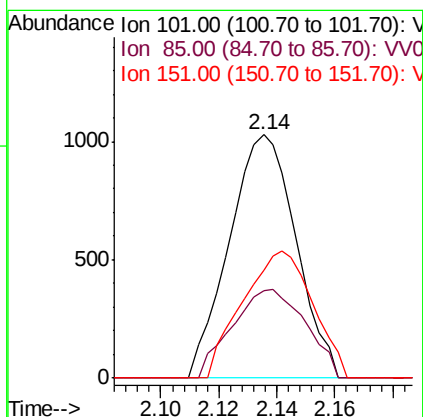
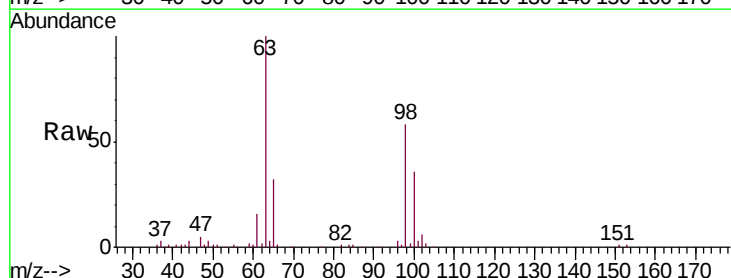
Tgt Ion:101 Resp: 2125  
 Ion Ratio Lower Upper  
 101 100  
 103 66.6 51.0 76.6

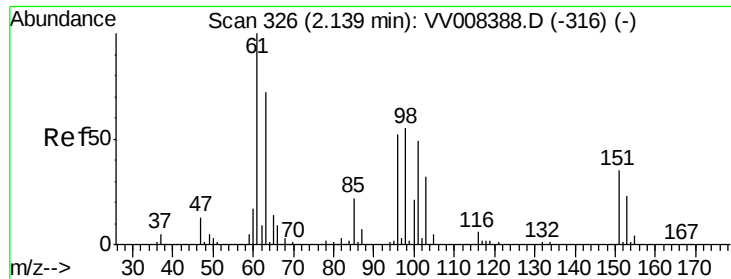


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 1.778 ug/L  
 RT: 2.14 min Scan# 325  
 Delta R.T. -0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

Tgt Ion:101 Resp: 1639  
 Ion Ratio Lower Upper  
 101 100  
 85 40.0 35.6 53.4  
 151 55.1 58.1 87.1#

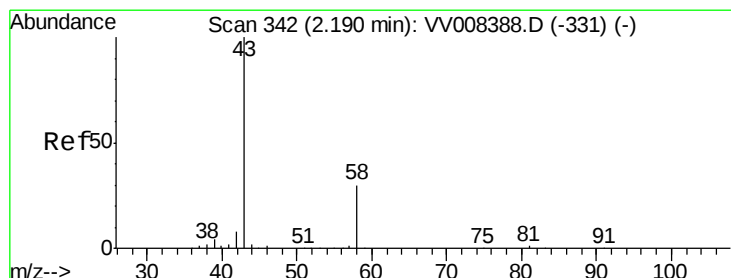
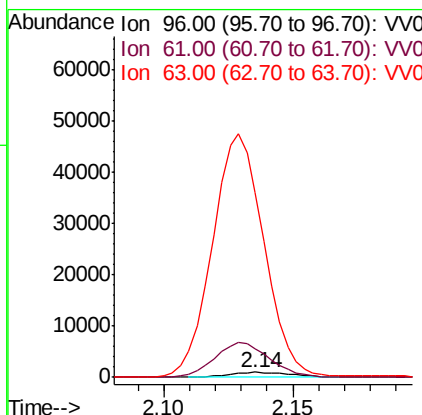
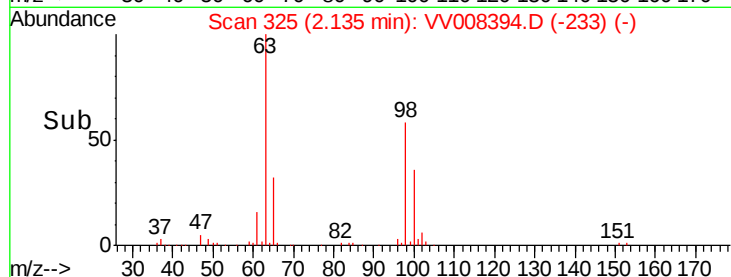
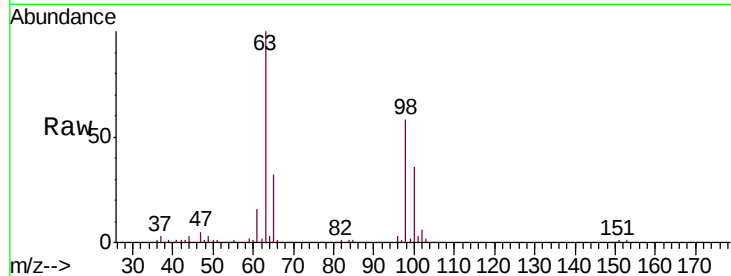




#12  
 1,1-Dichloroethene  
 Concen: 1.899 ug/L  
 RT: 2.14 min Scan# 325  
 Delta R.T. -0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

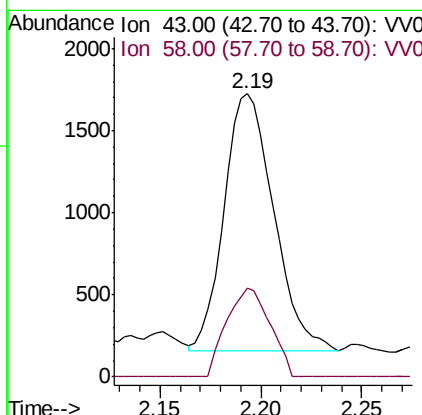
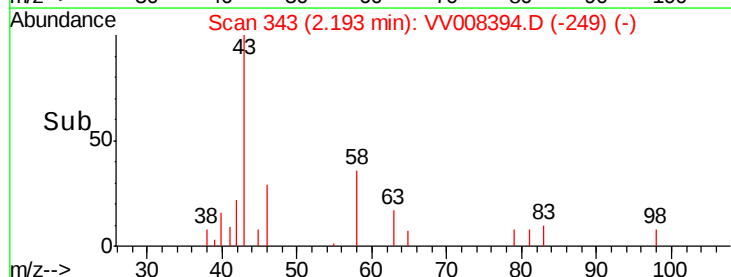
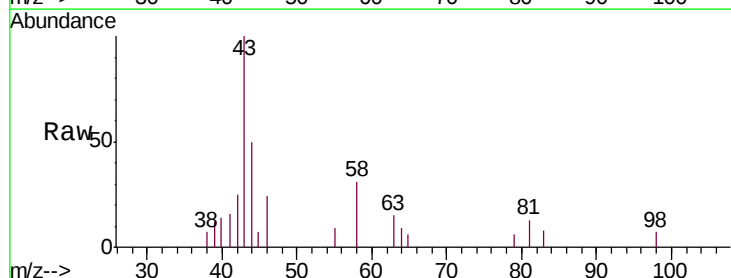
Instrument :  
 MSVOA\_V  
 ClientSampleID :  
 MDL05

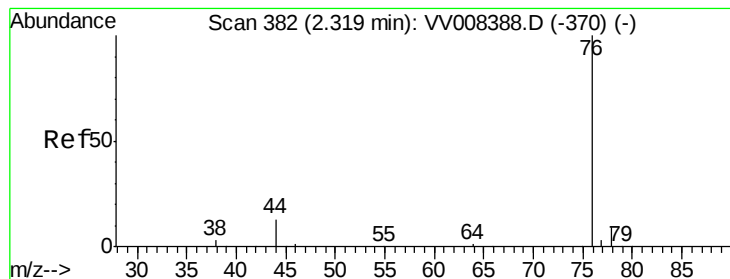
Tgt Ion: 96 Resp: 1648  
 Ion Ratio Lower Upper  
 96 100  
 61 576.7 130.3 242.1#  
 63 3656.0 84.4 156.8#



#13  
 Acetone  
 Concen: 2.976 ug/L  
 RT: 2.19 min Scan# 343  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

Tgt Ion: 43 Resp: 2689  
 Ion Ratio Lower Upper  
 43 100  
 58 30.2 0.0 61.4





#14

Carbon disulfide

Concen: 1.333 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampled :

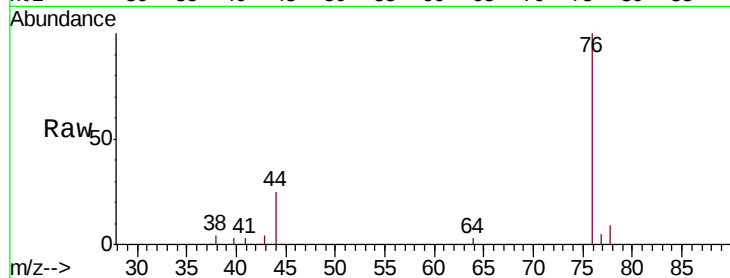
MDL05

Tgt Ion: 76 Resp: 5210

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV008388.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV008388.D (-370) (-)

2.32

4000

3000

2000

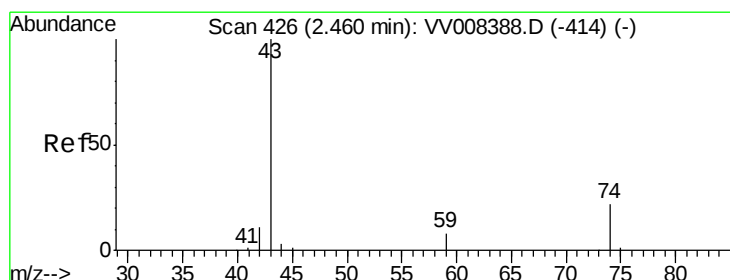
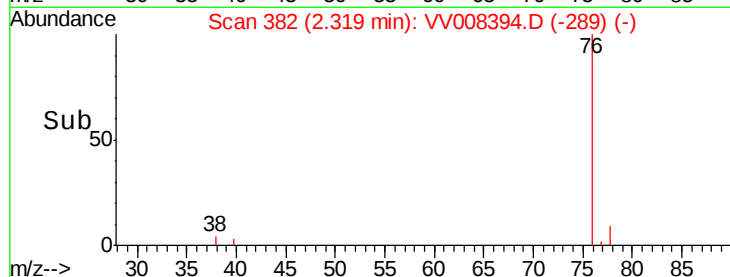
1000

0

Time-->

2.30

2.35



#15

Methyl Acetate

Concen: 1.439 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VV008394.D

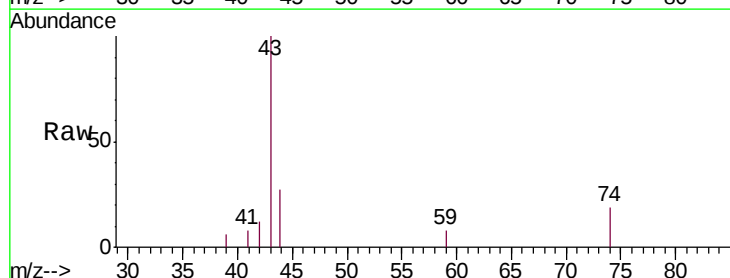
Acq: 24 Oct 2018 16:13

Tgt Ion: 43 Resp: 2592

Ion Ratio Lower Upper

43 100

74 16.3 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VV008388.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV008388.D (-414) (-)

2.46

1500

1000

500

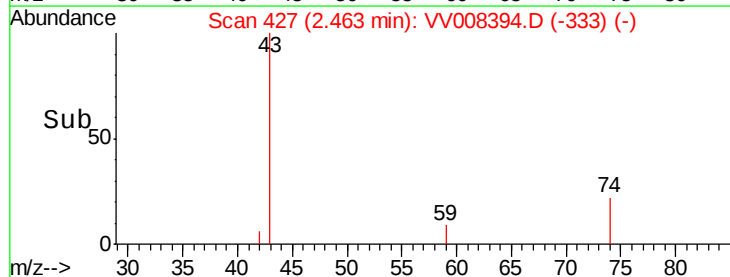
0

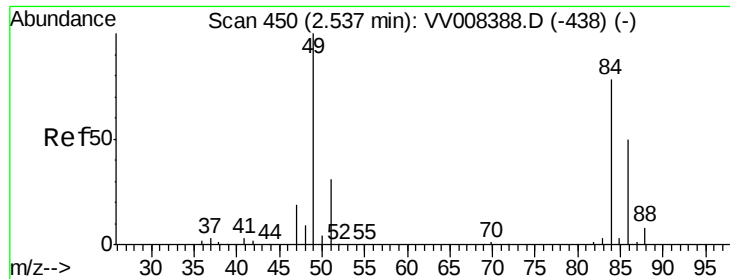
Time-->

2.40

2.45

2.50

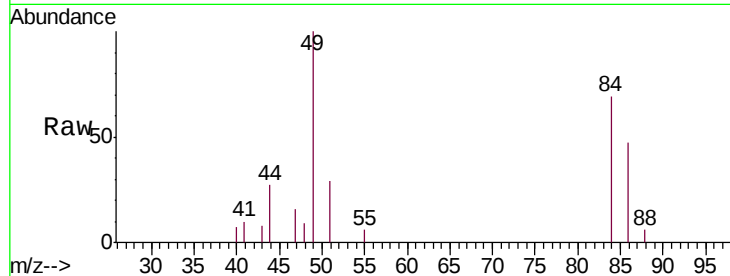




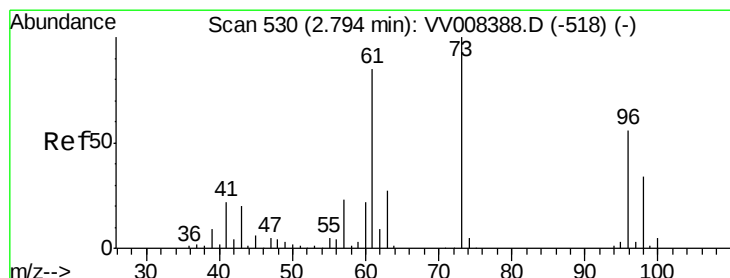
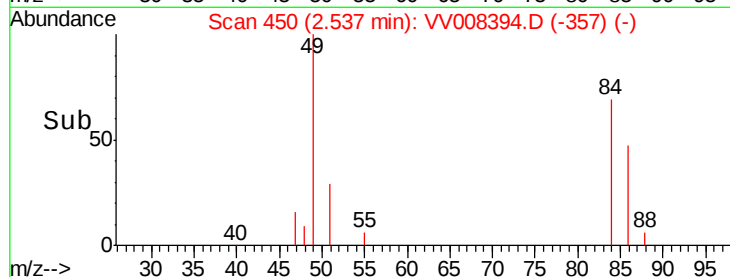
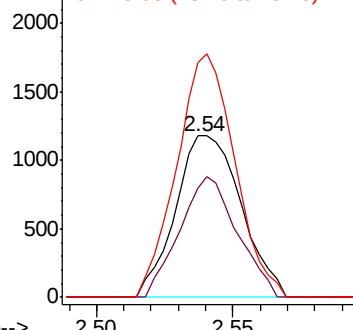
#16  
Methylene chloride  
Concen: 1.310 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

Tgt Ion: 84 Resp: 1970  
Ion Ratio Lower Upper  
84 100  
86 67.6 45.6 84.6  
49 145.0 90.6 168.3

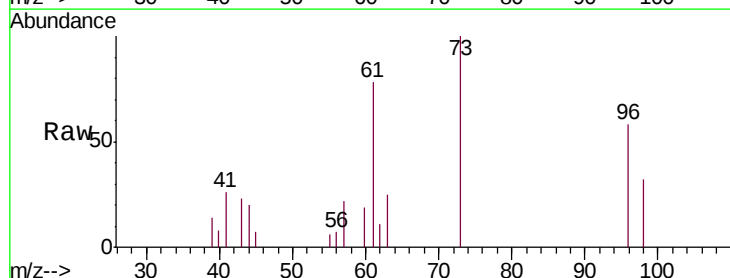


Abundance Ion 84.00 (83.70 to 84.70): VV0  
Ion 86.00 (85.70 to 86.70): VV0  
Ion 49.00 (48.70 to 49.70): VV0

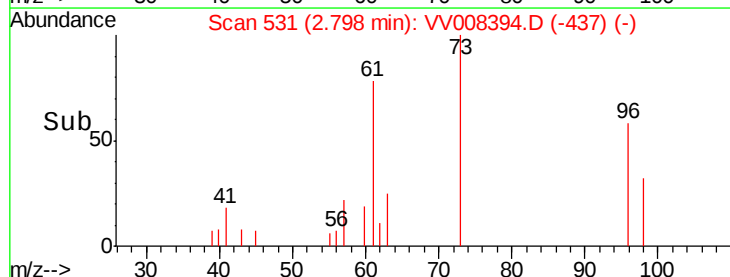
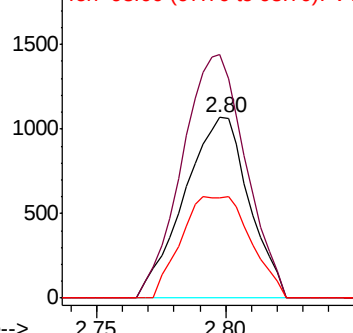


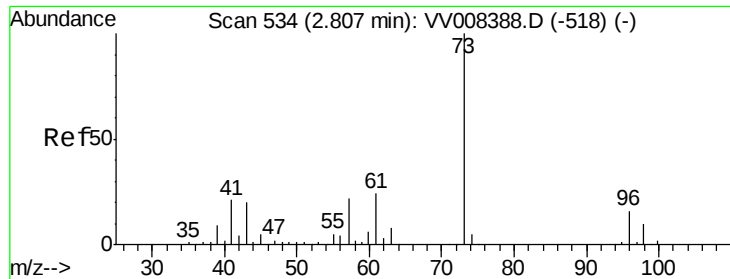
#17  
trans-1,2-Dichloroethene  
Concen: 1.419 ug/L  
RT: 2.80 min Scan# 531  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion: 96 Resp: 1878  
Ion Ratio Lower Upper  
96 100  
61 134.9 108.6 201.6  
98 55.8 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

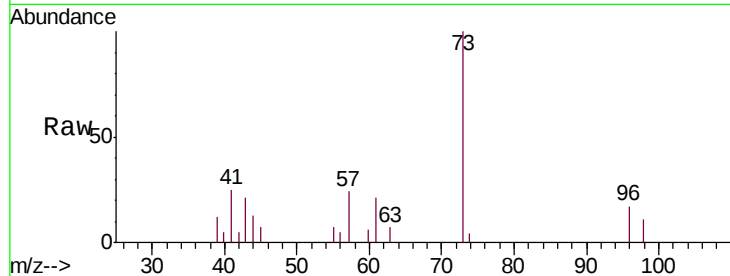




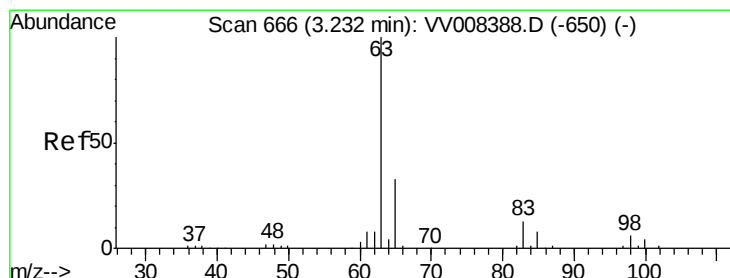
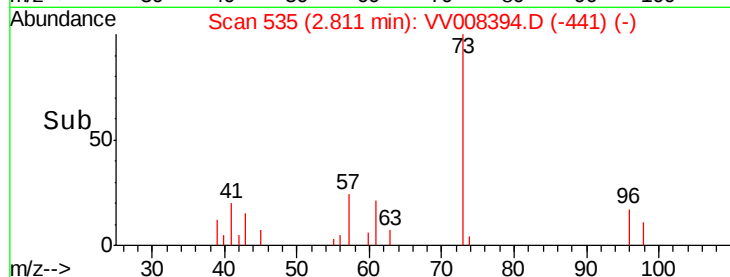
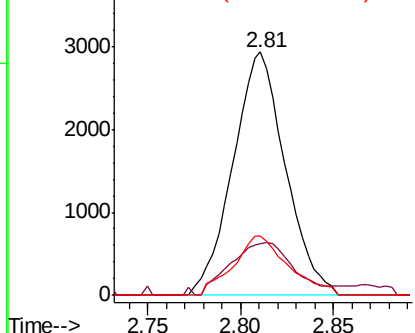
#18  
Methyl tert-butyl Ether  
Concen: 1.214 ug/L  
RT: 2.81 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

Tgt Ion: 73 Resp: 5750  
Ion Ratio Lower Upper  
73 100  
43 26.0 16.2 24.4#  
57 25.7 18.2 27.2

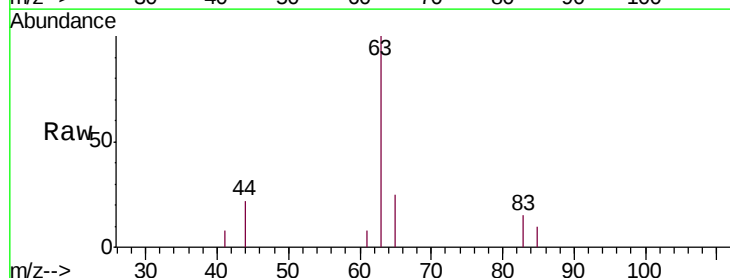


Abundance Ion 73.00 (72.70 to 73.70): VV0  
Ion 43.00 (42.70 to 43.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0

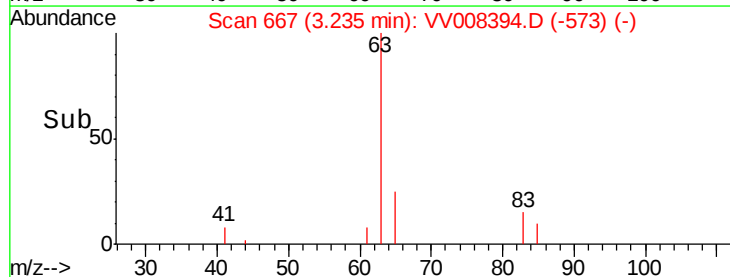
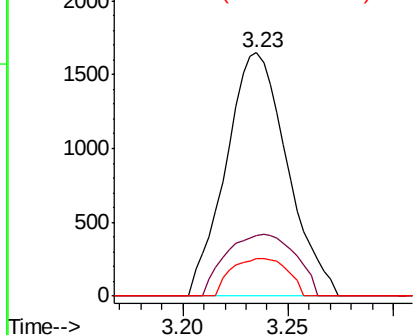


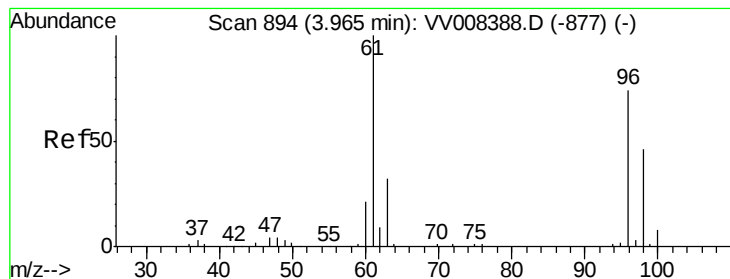
#19  
1,1-Dichloroethane  
Concen: 1.221 ug/L  
RT: 3.23 min Scan# 667  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion: 63 Resp: 3332  
Ion Ratio Lower Upper  
63 100  
65 24.9 22.0 40.8  
83 15.3 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VV0  
Ion 65.00 (64.70 to 65.70): VV0  
Ion 83.00 (82.70 to 83.70): VV0





#20

cis-1,2-Dichloroethene

Concen: 1.305 ug/L

RT: 3.97 min Scan# 896

Delta R.T. 0.01 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampled :

MDL05

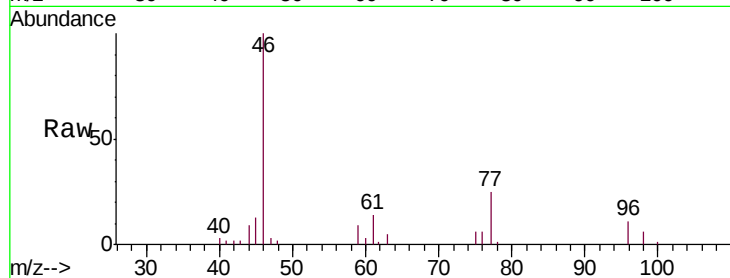
Tgt Ion: 96 Resp: 1967

Ion Ratio Lower Upper

96 100

61 132.7 100.9 187.5

68 0.0 0.0 0.0

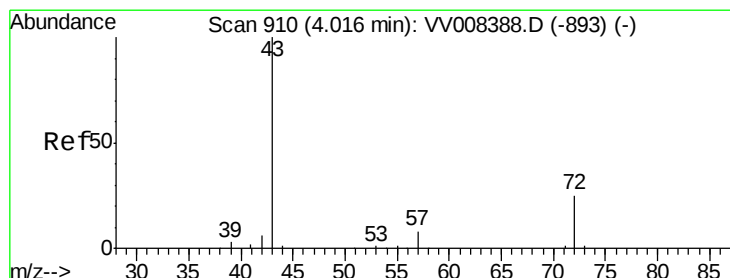
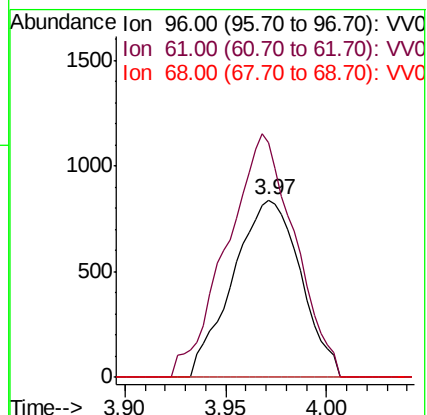
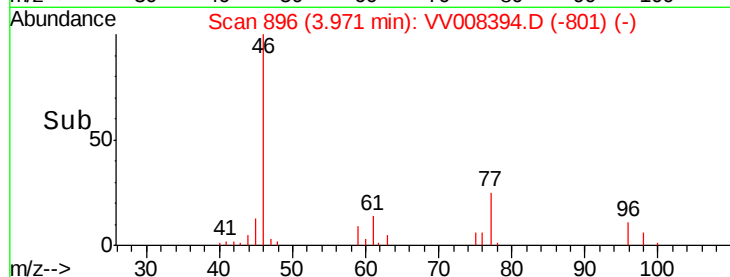


Abundance Ion 96.00 (95.70 to 96.70): VV008388.D (-877) (-)

Ion 61.00 (60.70 to 61.70): VV008388.D (-877) (-)

Ion 68.00 (67.70 to 68.70): VV008388.D (-877) (-)

Time-->



#22

2-Butanone

Concen: 2.523 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.01 min

Lab File: VV008394.D

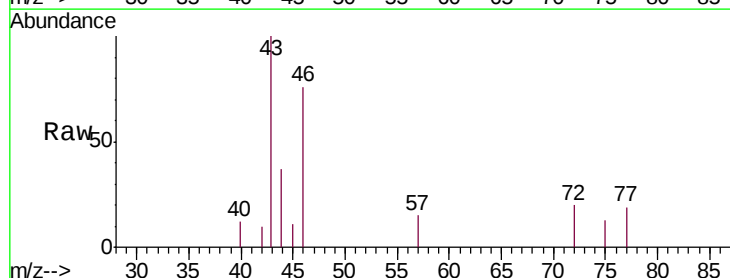
Acq: 24 Oct 2018 16:13

Tgt Ion: 43 Resp: 3293

Ion Ratio Lower Upper

43 100

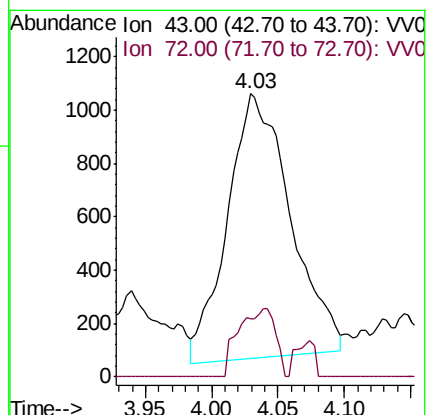
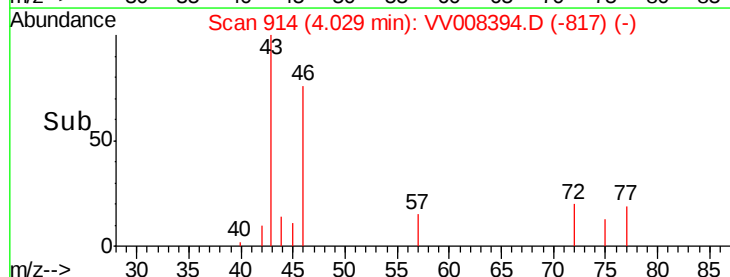
72 1.5 13.0 38.9#

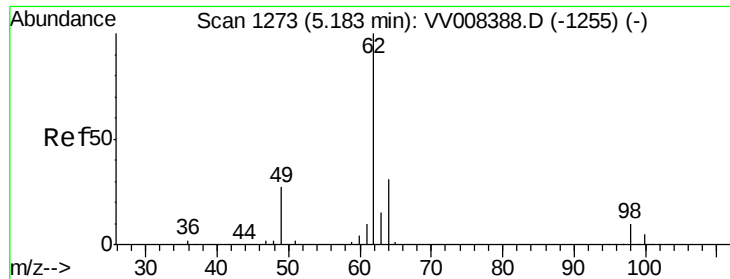


Abundance Ion 43.00 (42.70 to 43.70): VV008388.D (-893) (-)

Ion 72.00 (71.70 to 72.70): VV008388.D (-893) (-)

Time-->

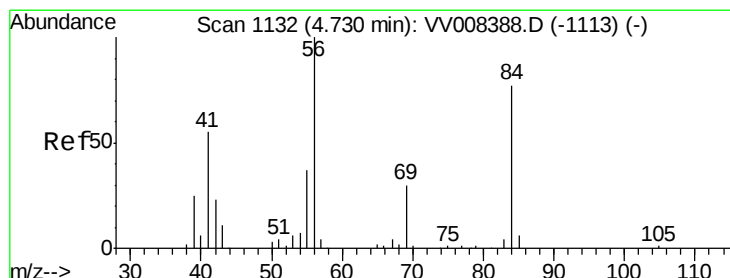
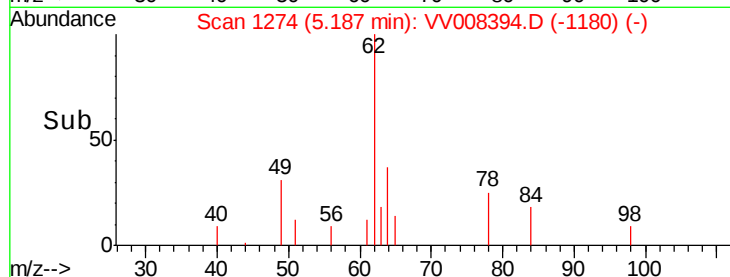
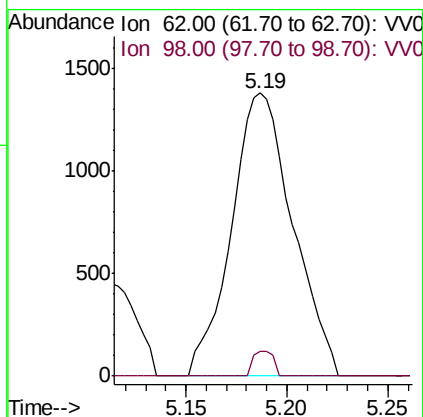
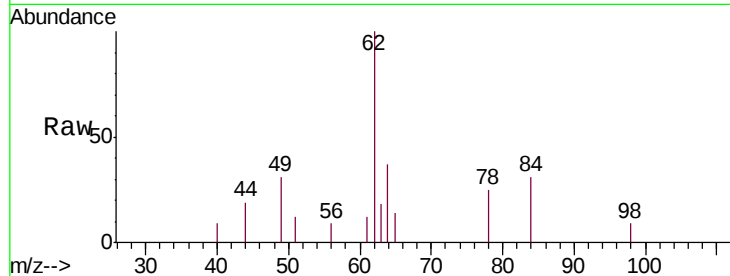




#27  
 1,2-Dichloroethane  
 Concen: 1.314 ug/L  
 RT: 5.19 min Scan# 1274  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

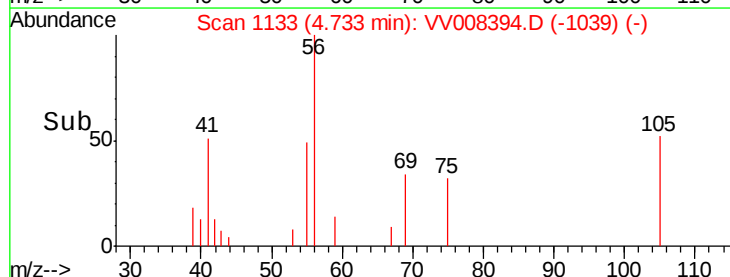
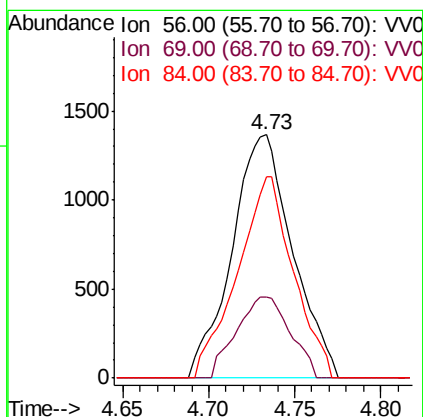
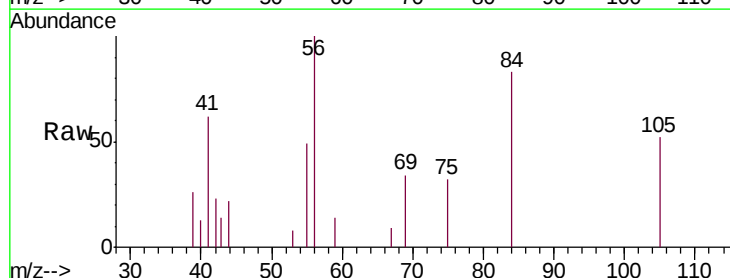
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL05

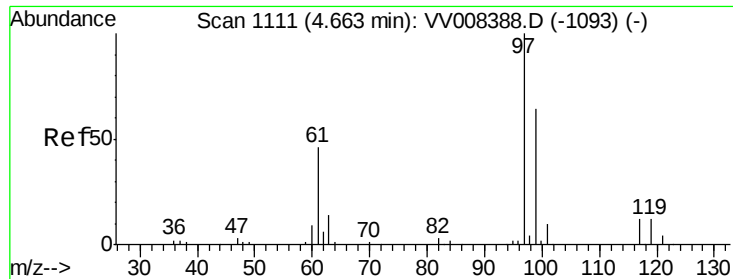
Tgt Ion: 62 Resp: 2924  
 Ion Ratio Lower Upper  
 62 100  
 98 8.9 6.6 9.8



#29  
 Cyclohexane  
 Concen: 1.326 ug/L  
 RT: 4.73 min Scan# 1133  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

Tgt Ion: 56 Resp: 3348  
 Ion Ratio Lower Upper  
 56 100  
 69 29.6 24.6 37.0  
 84 76.0 65.0 97.4

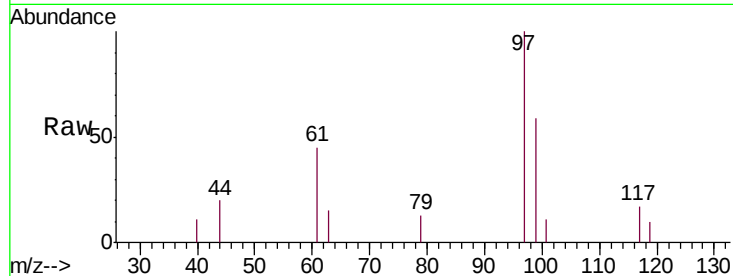




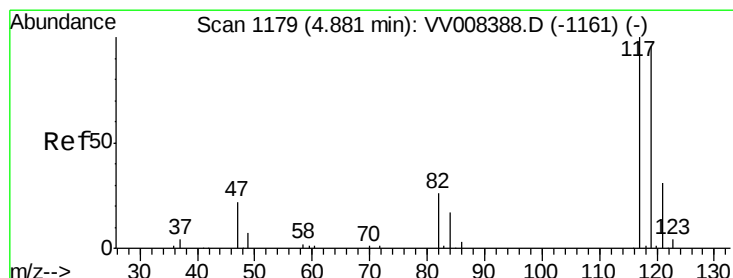
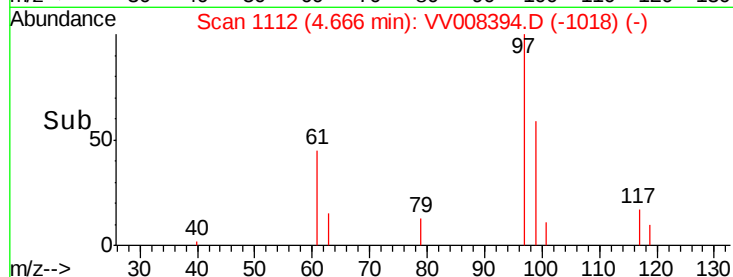
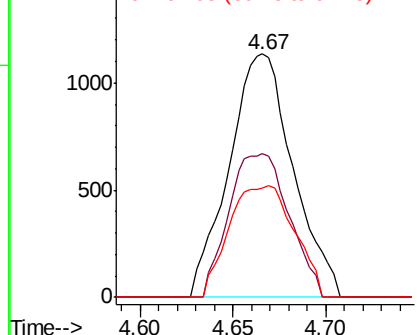
#30  
 1,1,1-Trichloroethane  
 Concen: 1.211 ug/L  
 RT: 4.67 min Scan# 1112  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

Tgt Ion: 97 Resp: 2724  
 Ion Ratio Lower Upper  
 97 100  
 99 55.4 51.6 77.4  
 61 46.7 36.5 54.7

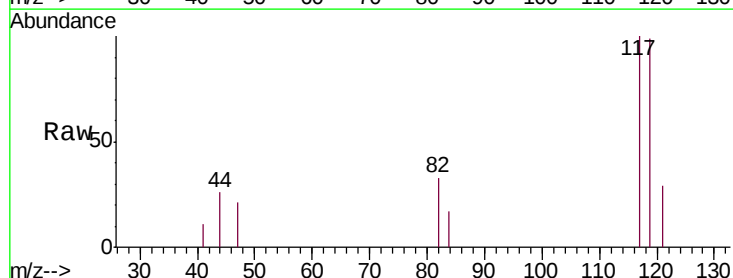


Abundance Ion 97.00 (96.70 to 97.70): VV008394.D (-1018) (-)  
 Ion 99.00 (98.70 to 99.70): VV008394.D (-1018) (-)  
 Ion 61.05 (60.75 to 61.75): VV008394.D (-1018) (-)

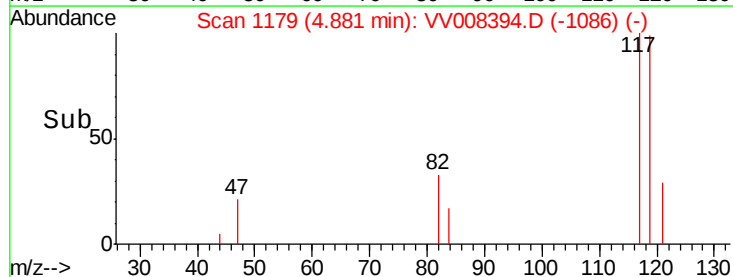
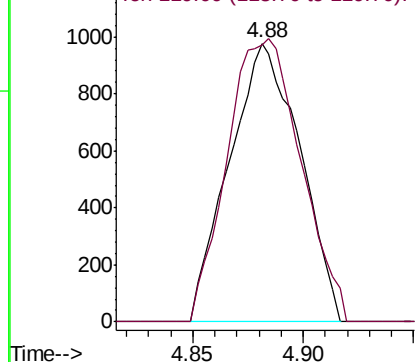


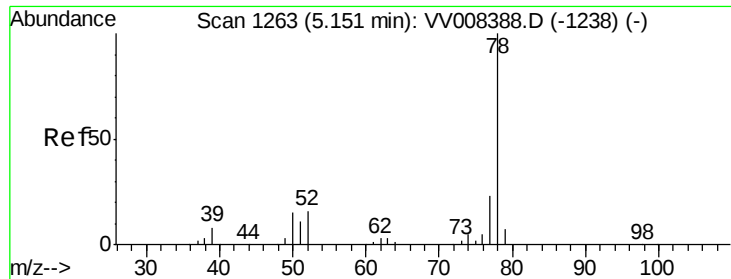
#31  
 Carbon tetrachloride  
 Concen: 1.138 ug/L  
 RT: 4.88 min Scan# 1179  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

Tgt Ion: 117 Resp: 2172  
 Ion Ratio Lower Upper  
 117 100  
 119 106.3 75.8 113.8



Abundance Ion 117.00 (116.70 to 117.70): VV008394.D (-1086) (-)  
 Ion 119.00 (118.70 to 119.70): VV008394.D (-1086) (-)

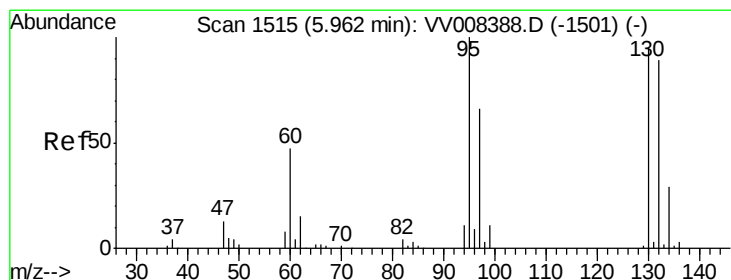
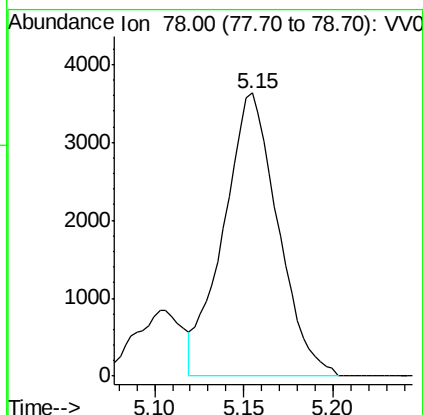
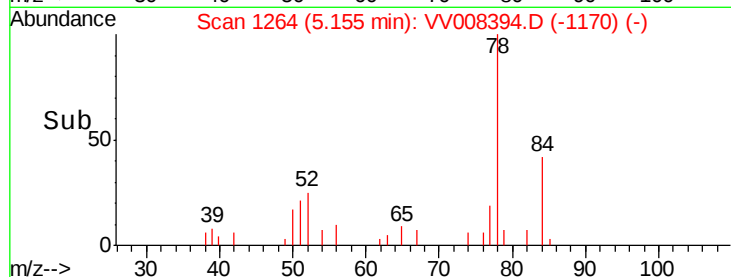
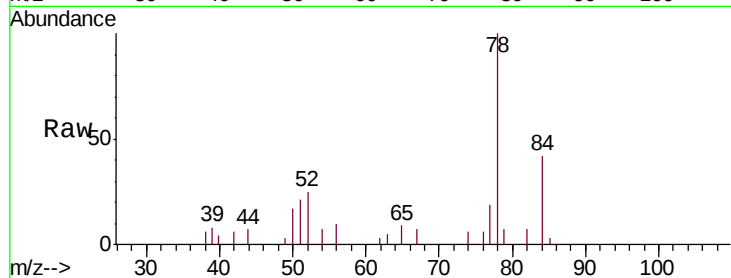




#33  
Benzene  
Concen: 1.361 ug/L  
RT: 5.15 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

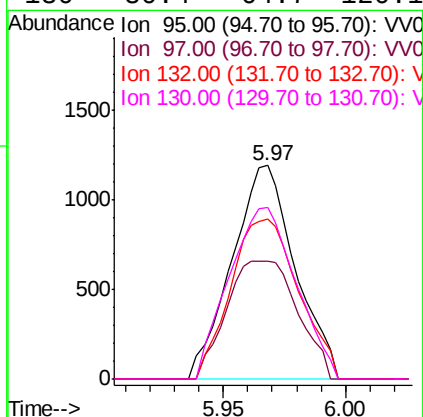
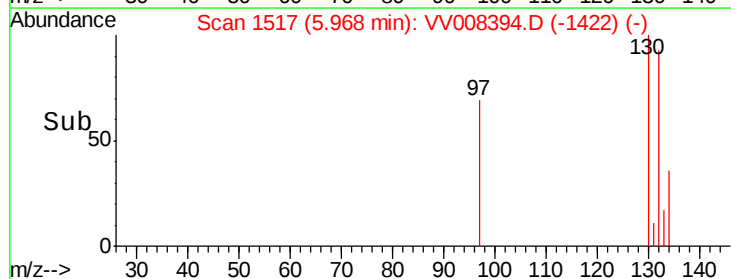
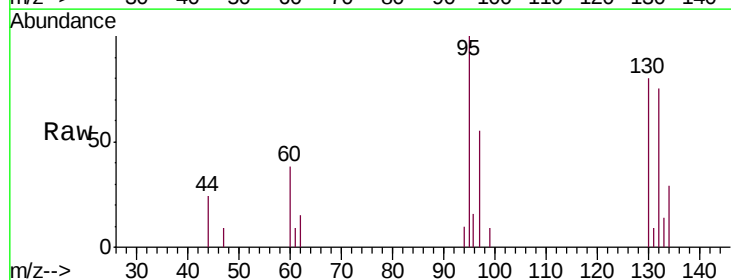
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

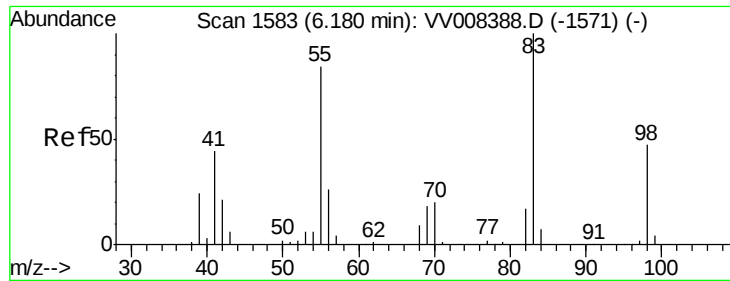
Tgt Ion: 78 Resp: 7717



#34  
Trichloroethene  
Concen: 1.471 ug/L  
RT: 5.97 min Scan# 1517  
Delta R.T. 0.01 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion: 95 Resp: 2135  
Ion Ratio Lower Upper  
95 100  
97 55.1 45.2 84.0  
132 74.6 63.8 118.6  
130 80.4 64.7 120.1

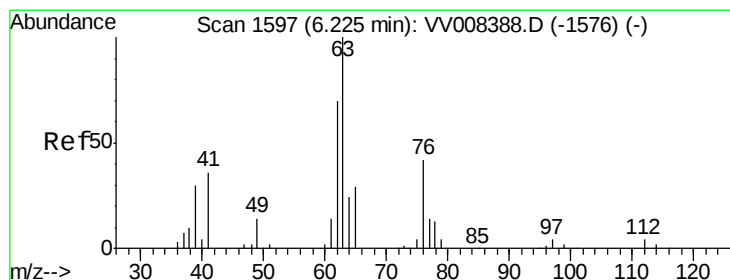
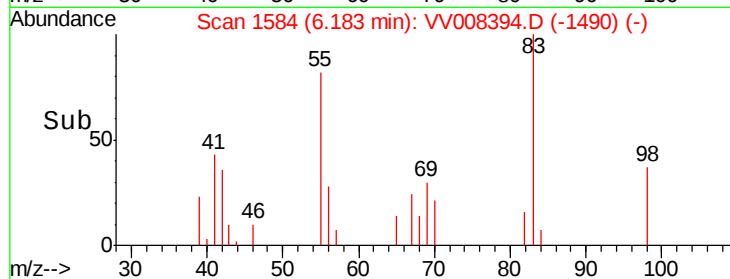
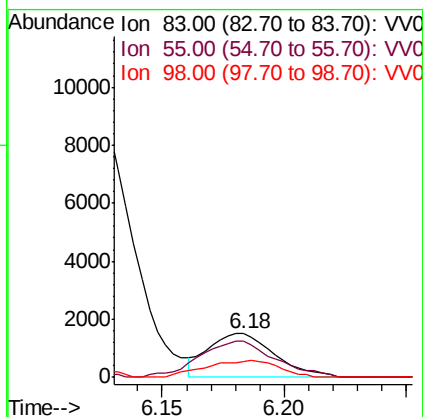
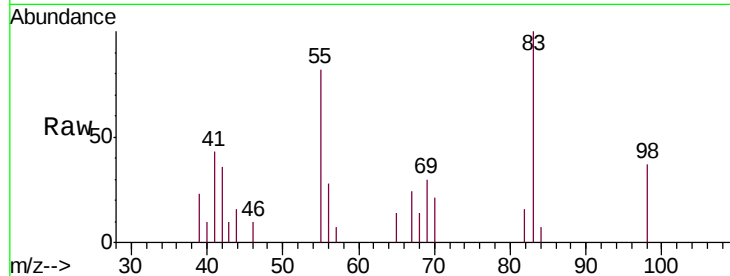




#35  
Methylcyclohexane  
Concen: 1.156 ug/L  
RT: 6.18 min Scan# 1584  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

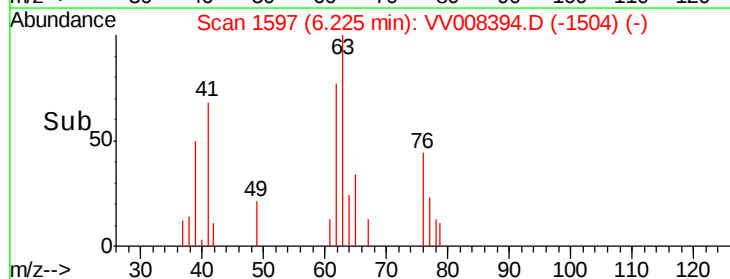
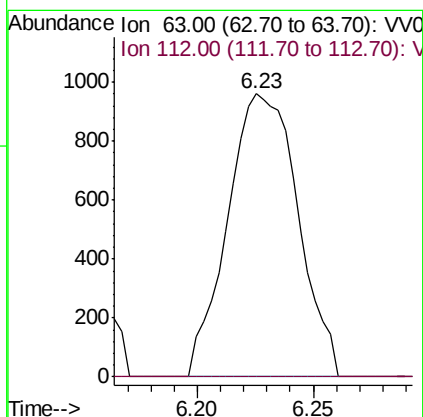
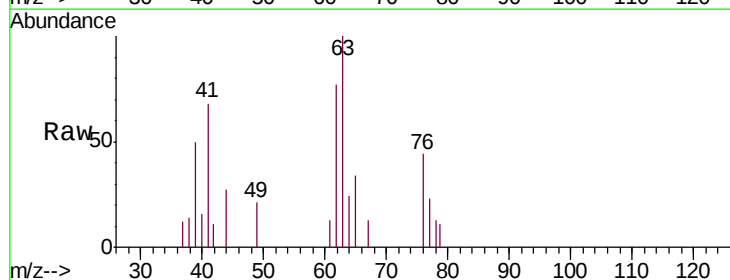
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

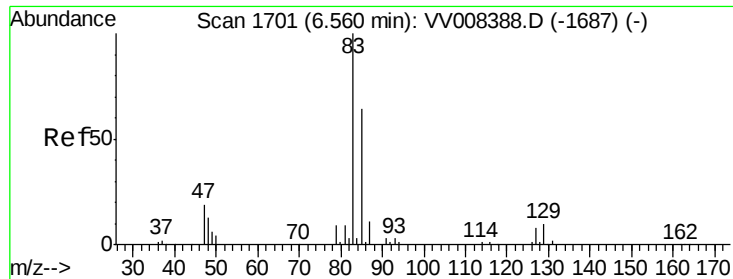
Tgt Ion: 83 Resp: 2853  
Ion Ratio Lower Upper  
83 100  
55 94.3 65.0 97.4  
98 42.7 36.0 54.0



#37  
1,2-Dichloropropane  
Concen: 1.291 ug/L  
RT: 6.23 min Scan# 1597  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion: 63 Resp: 2022  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.9 4.3#

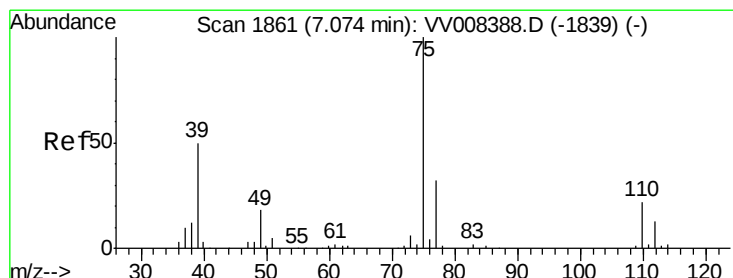
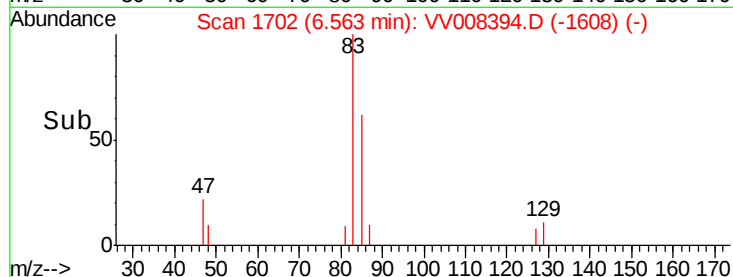
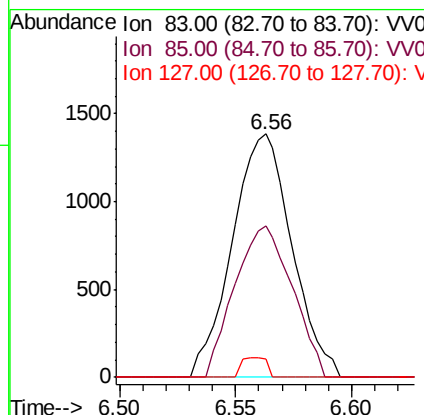
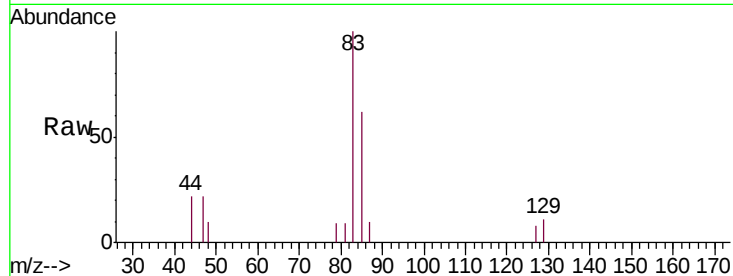




#38  
Bromodichloromethane  
Concen: 1.241 ug/L  
RT: 6.56 min Scan# 1702  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

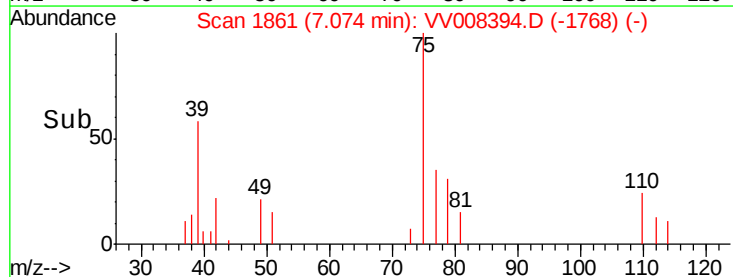
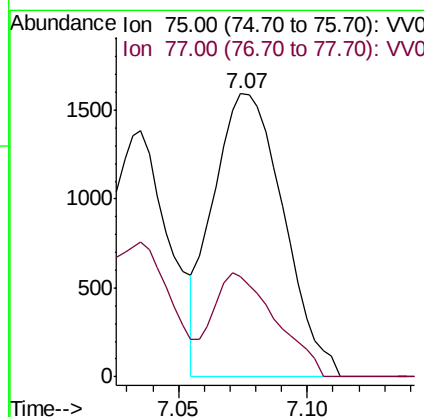
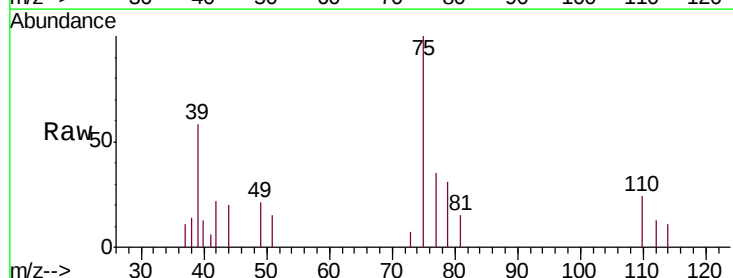
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

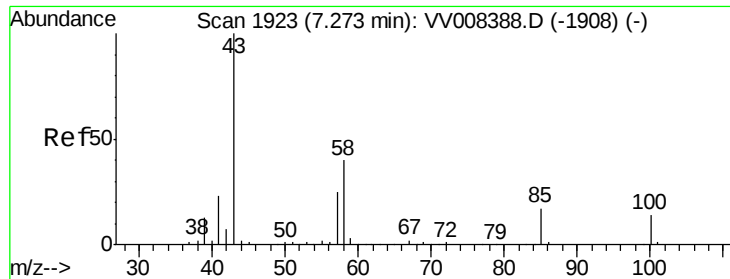
Tgt Ion: 83 Resp: 2477  
Ion Ratio Lower Upper  
83 100  
85 62.3 44.3 82.3  
127 7.7 6.3 9.5



#39  
cis-1,3-Dichloropropene  
Concen: 1.229 ug/L  
RT: 7.07 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion: 75 Resp: 3025  
Ion Ratio Lower Upper  
75 100  
77 35.2 22.6 42.0

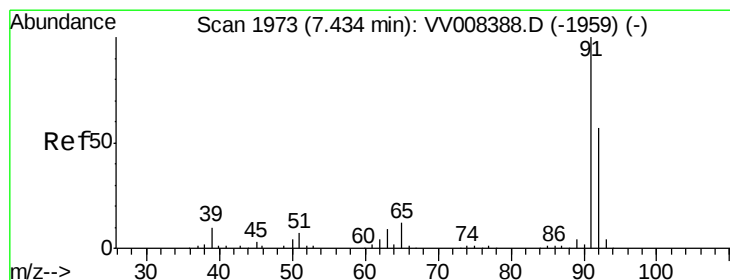
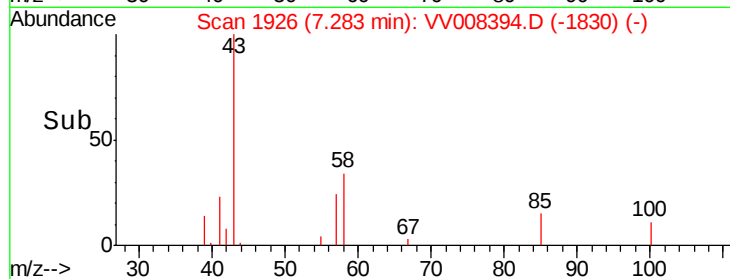
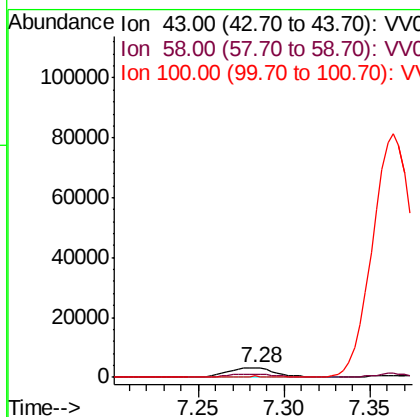
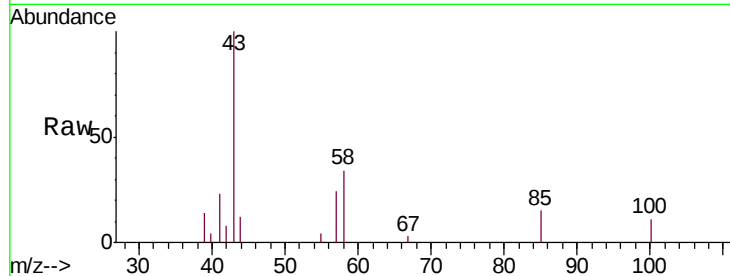




#40  
4-Methyl-2-pentanone  
Concen: 2.694 ug/L  
RT: 7.28 min Scan# 1926  
Delta R.T. 0.01 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

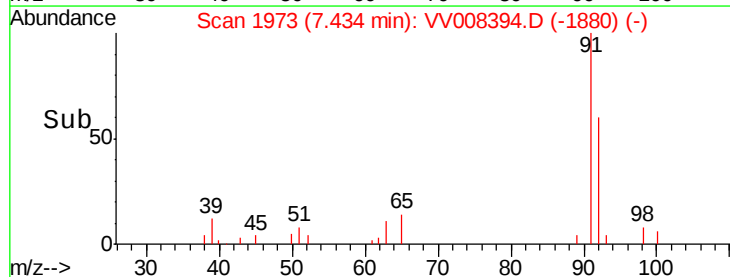
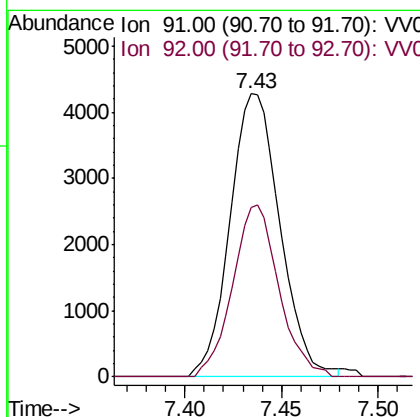
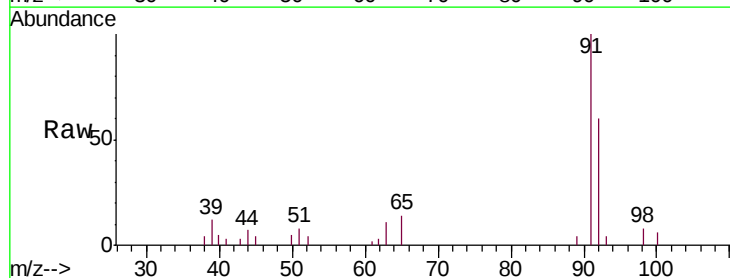
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

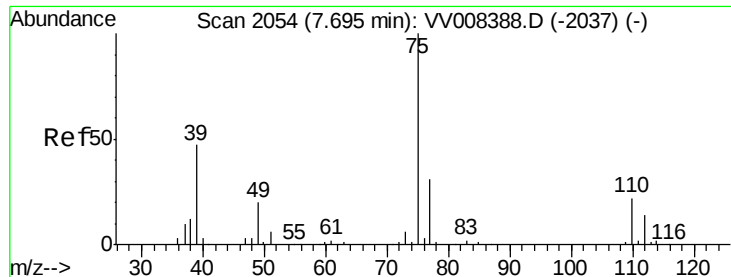
Tgt Ion: 43 Resp: 6248  
Ion Ratio Lower Upper  
43 100  
58 34.7 30.9 46.3  
100 9.8 10.9 16.3#



#42  
Toluene  
Concen: 1.304 ug/L  
RT: 7.43 min Scan# 1973  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion: 91 Resp: 7681  
Ion Ratio Lower Upper  
91 100  
92 60.0 39.5 73.4





#44

trans-1,3-Dichloropropene

Concen: 1.164 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampled :

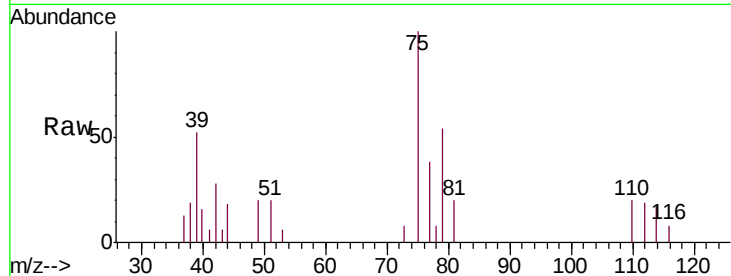
MDL05

Tgt Ion: 75 Resp: 2682

Ion Ratio Lower Upper

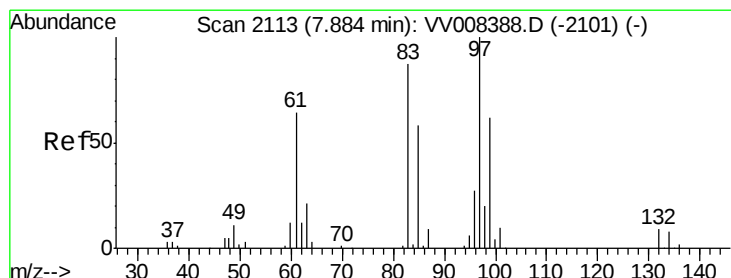
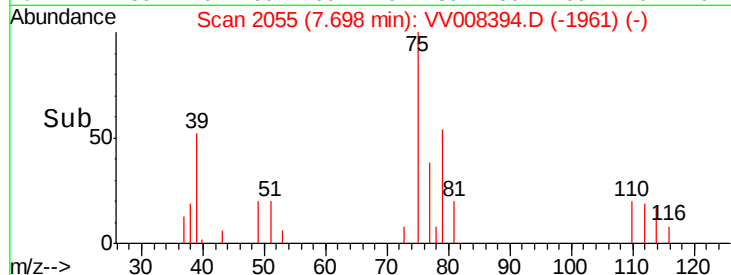
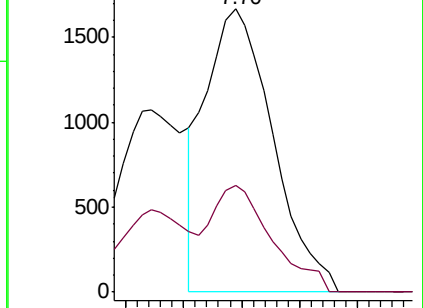
75 100

77 37.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV008388.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV008388.D (-2037) (-)



#45

1,1,2-Trichloroethane

Concen: 1.152 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Tgt Ion: 97 Resp: 1595

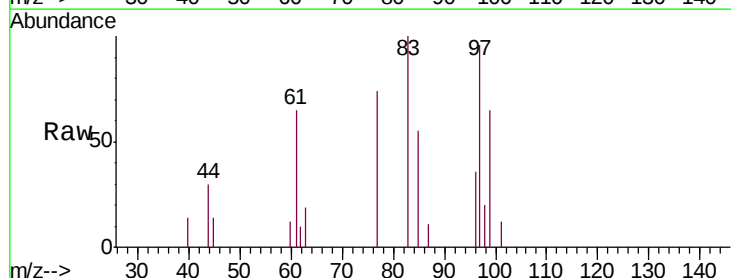
Ion Ratio Lower Upper

97 100

99 68.0 43.3 80.3

83 104.4 61.9 114.9

85 57.1 40.9 75.9

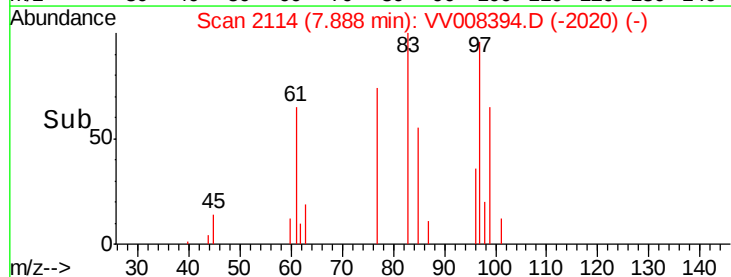
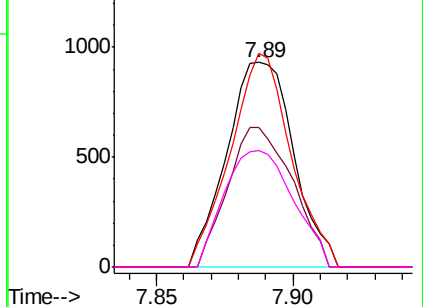


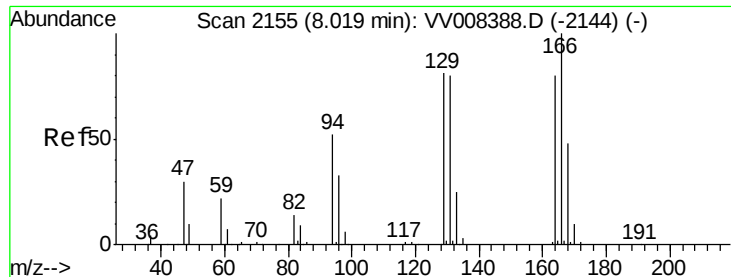
Abundance Ion 97.00 (96.70 to 97.70): VV008388.D (-2101) (-)

Ion 99.00 (98.70 to 99.70): VV008388.D (-2101) (-)

Ion 83.00 (82.70 to 83.70): VV008388.D (-2101) (-)

Ion 85.00 (84.70 to 85.70): VV008388.D (-2101) (-)

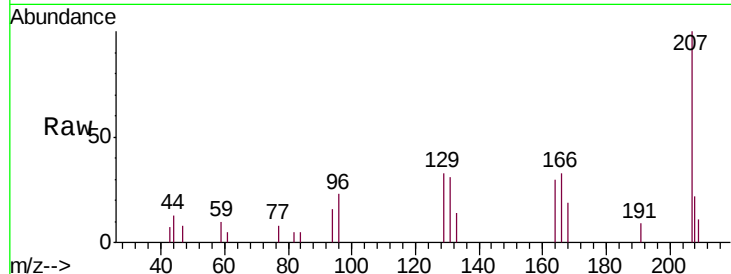




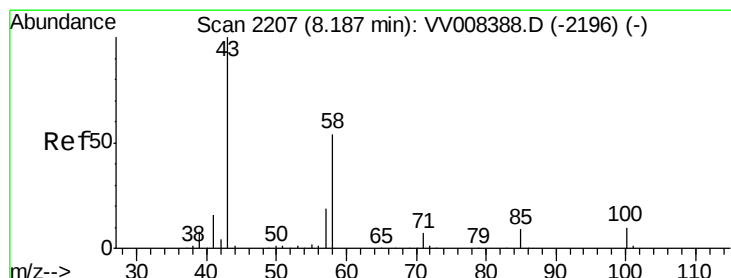
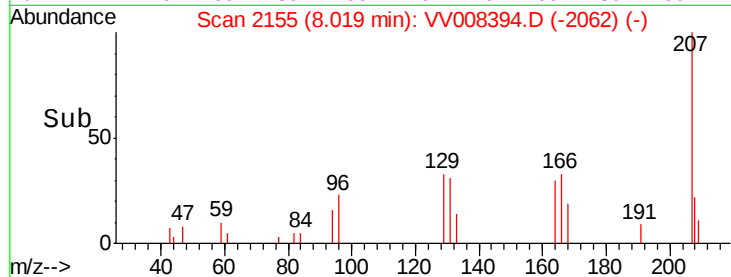
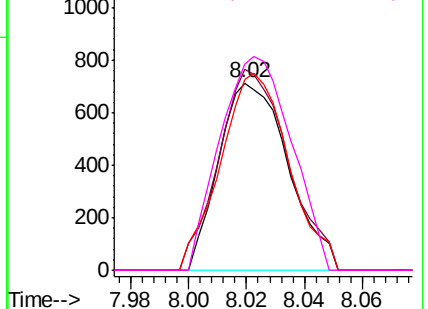
#46  
Tetrachloroethene  
Concen: 1.253 ug/L  
RT: 8.02 min Scan# 2155  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Tgt Ion:164 Resp: 1186  
Ion Ratio Lower Upper  
164 100  
129 107.3 75.0 139.2  
131 101.5 71.3 132.3  
166 109.8 89.2 165.6

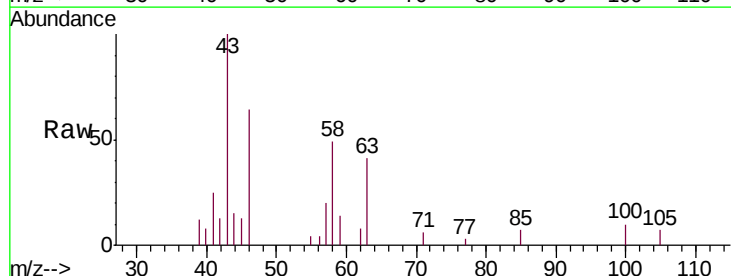


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

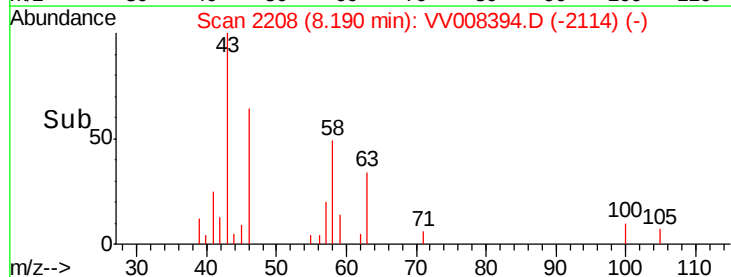
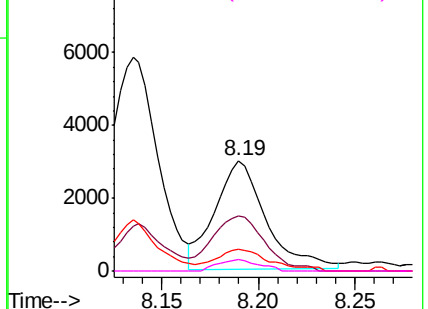


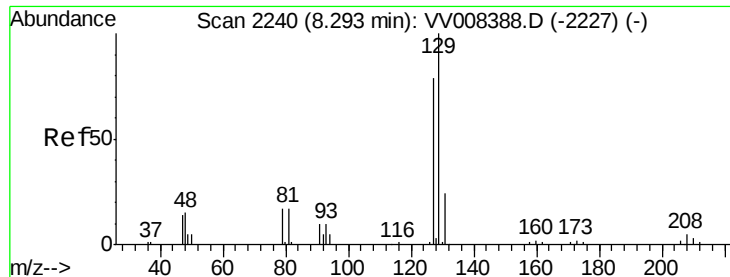
#48  
2-Hexanone  
Concen: 3.036 ug/L  
RT: 8.19 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion: 43 Resp: 5433  
Ion Ratio Lower Upper  
43 100  
58 46.1 42.6 63.8  
57 15.4 14.8 22.2  
100 8.7 8.5 12.7



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 1.141 ug/L

RT: 8.30 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampleId :

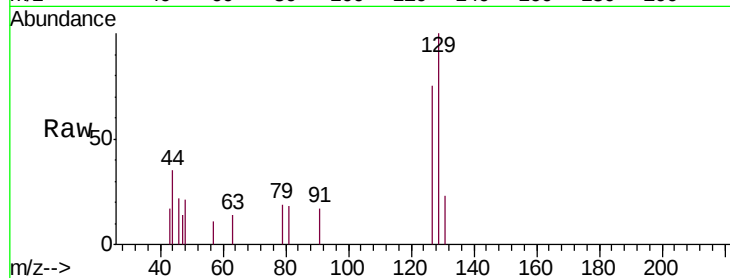
MDL05

Tgt Ion:129 Resp: 1697

Ion Ratio Lower Upper

129 100

127 75.2 54.9 101.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.30

1200

1000

800

600

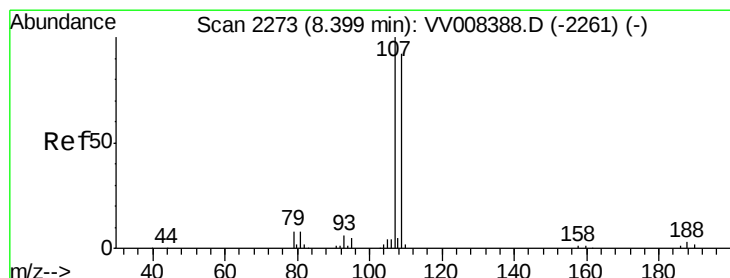
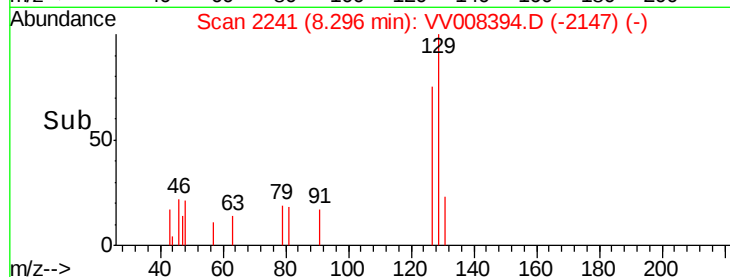
400

200

0

8.26 8.28 8.30 8.32 8.34

Time-->



#50

1,2-Dibromoethane

Concen: 1.232 ug/L

RT: 8.40 min Scan# 2274

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

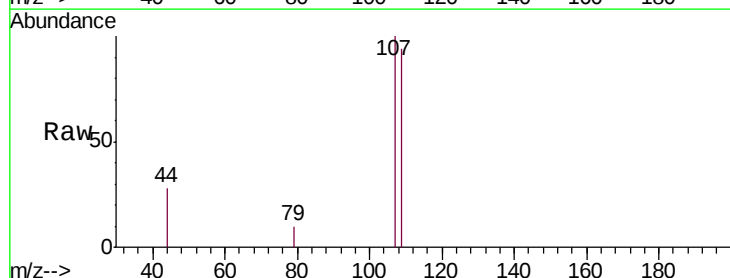
Tgt Ion:107 Resp: 1789

Ion Ratio Lower Upper

107 100

109 93.9 65.2 121.2

188 0.0 2.3 3.5#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

8.40

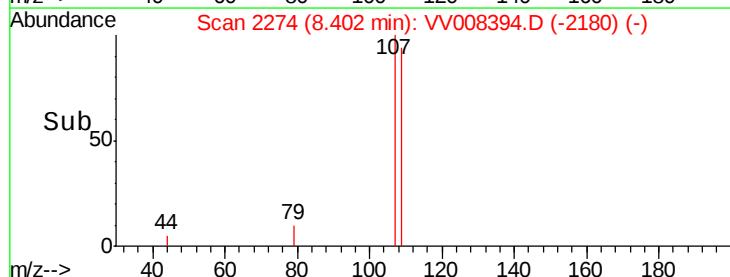
1000

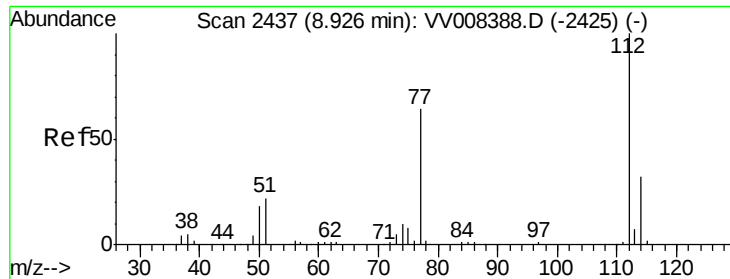
500

0

8.35 8.40 8.45

Time-->





#51

Chlorobenzene

Concen: 1.225 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampleId :

MDL05

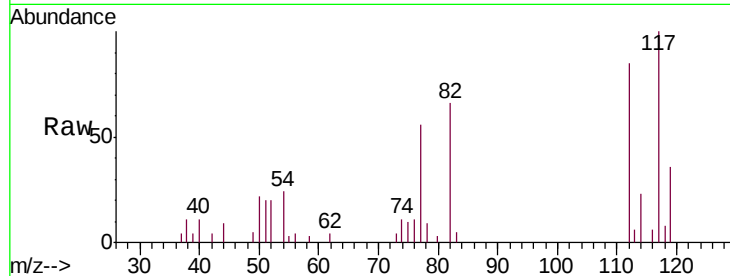
Tgt Ion: 112 Resp: 4441

Ion Ratio Lower Upper

112 100

114 27.1 22.5 41.7

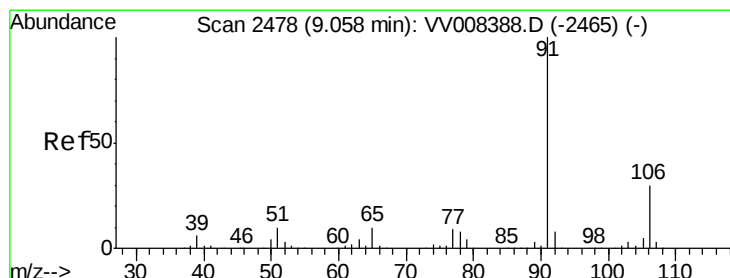
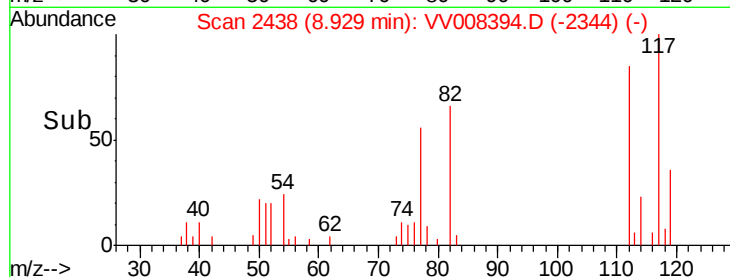
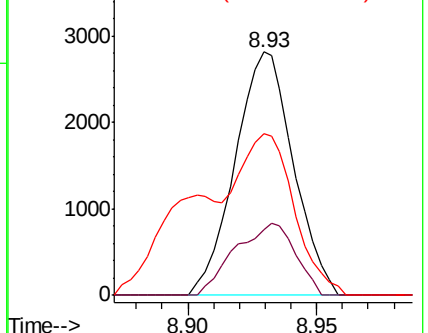
77 66.4 52.0 78.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 1.209 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008394.D

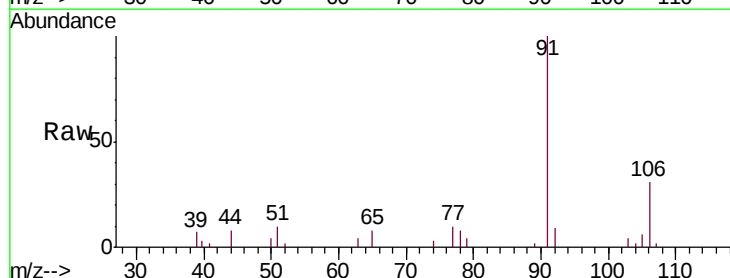
Acq: 24 Oct 2018 16:13

Tgt Ion: 91 Resp: 7978

Ion Ratio Lower Upper

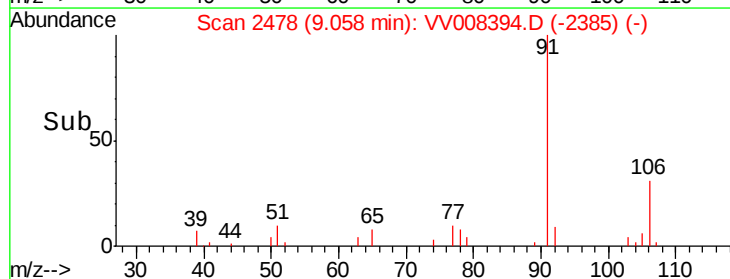
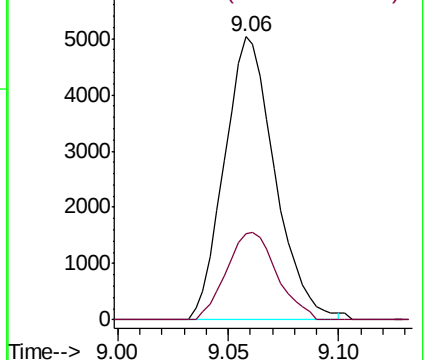
91 100

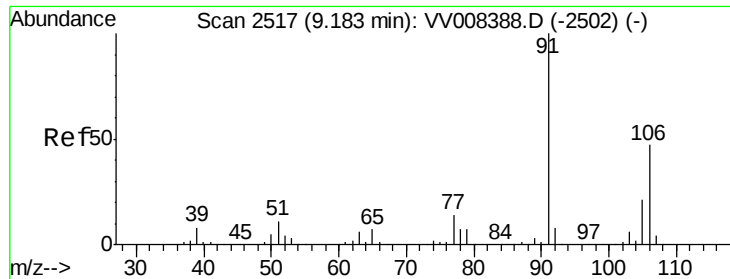
106 30.7 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

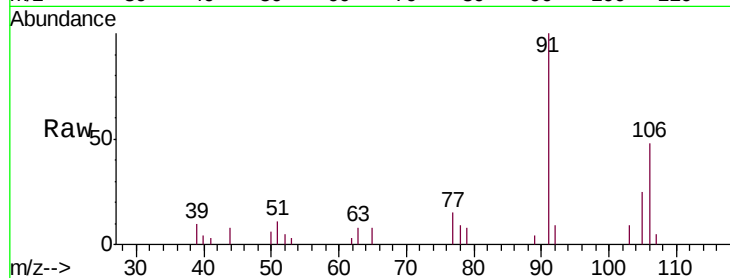




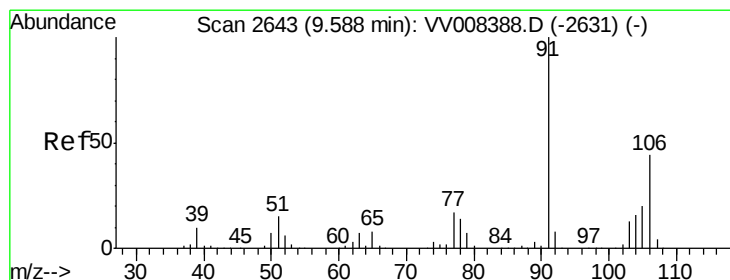
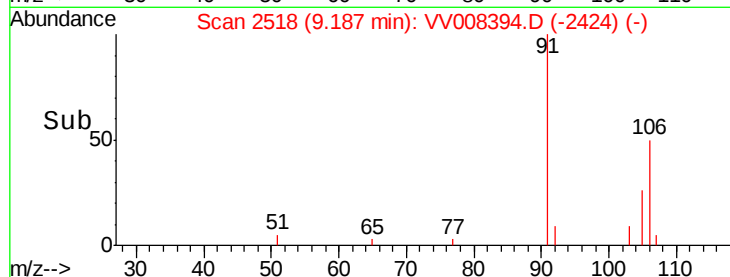
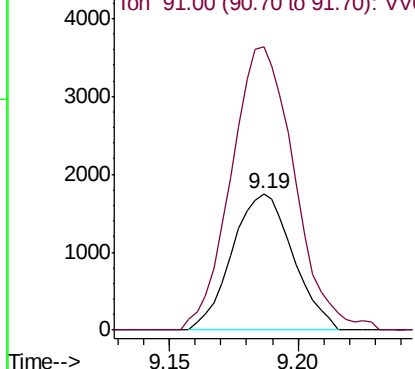
#53  
m,p-Xylene  
Concen: 1.199 ug/L  
RT: 9.19 min Scan# 2518  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Tgt Ion:106 Resp: 2891  
Ion Ratio Lower Upper  
106 100  
91 207.2 150.0 278.6

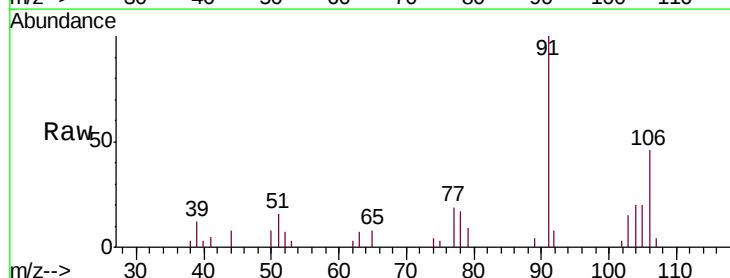


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

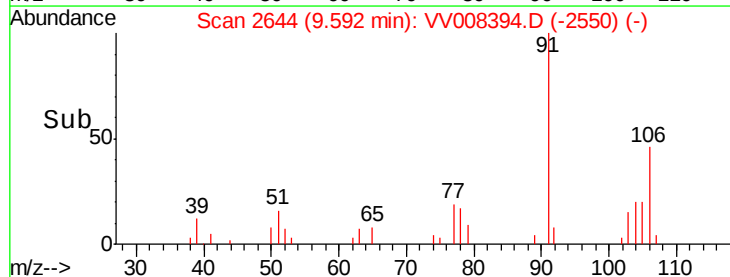
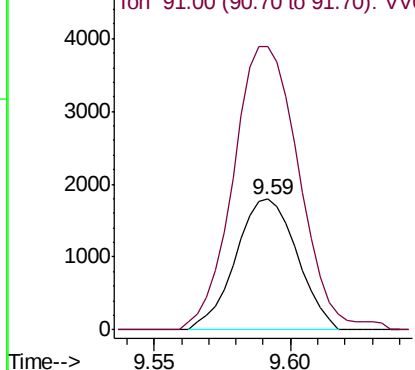


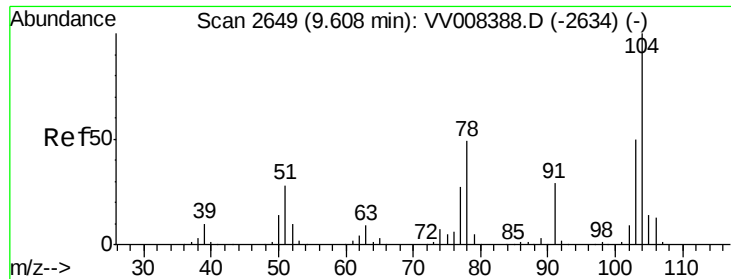
#54  
o-xylene  
Concen: 1.164 ug/L  
RT: 9.59 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion:106 Resp: 2801  
Ion Ratio Lower Upper  
106 100  
91 216.3 158.7 294.7



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

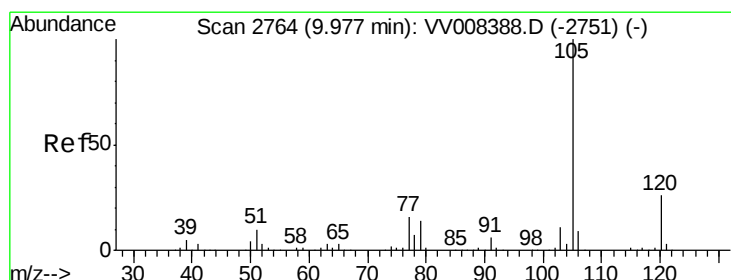
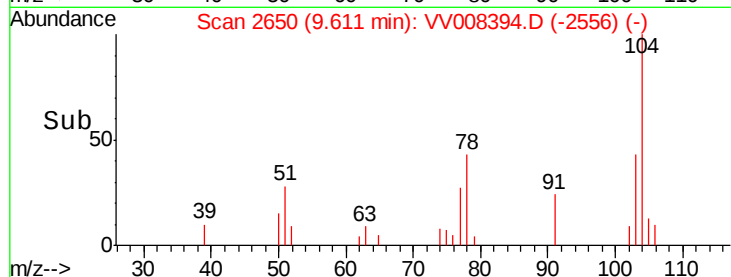
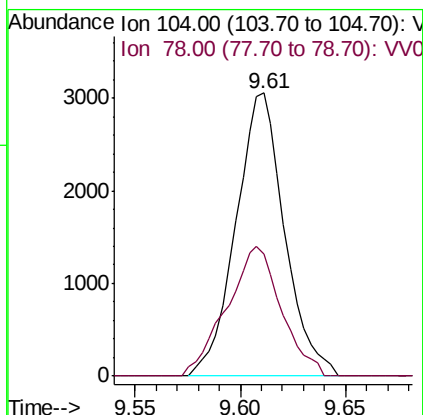
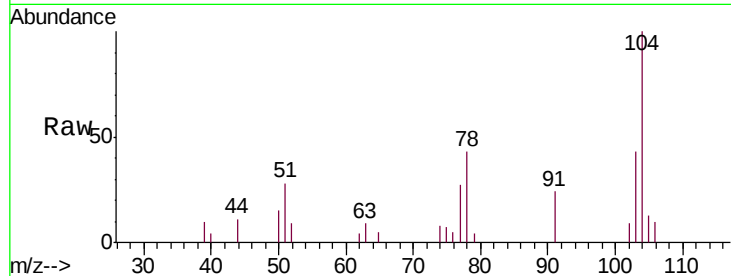




#55  
Styrene  
Concen: 1.209 ug/L  
RT: 9.61 min Scan# 2650  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

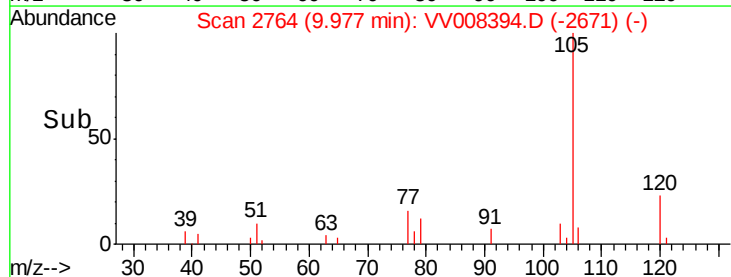
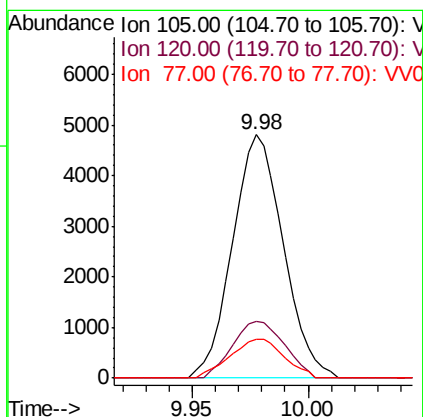
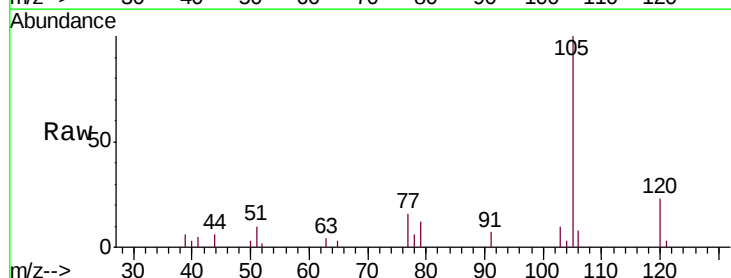
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

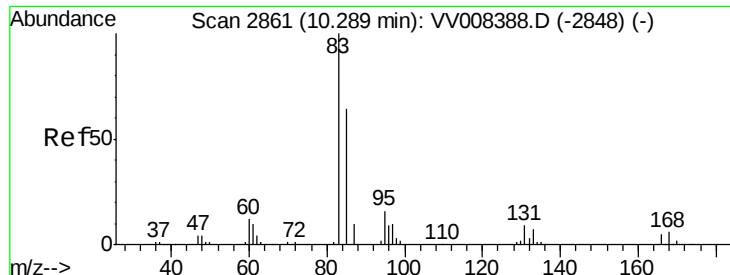
Tgt Ion:104 Resp: 4902  
Ion Ratio Lower Upper  
104 100  
78 43.1 34.4 64.0



#56  
Isopropylbenzene  
Concen: 1.161 ug/L  
RT: 9.98 min Scan# 2764  
Delta R.T. 0.00 min  
Lab File: VV008394.D  
Acq: 24 Oct 2018 16:13

Tgt Ion:105 Resp: 7308  
Ion Ratio Lower Upper  
105 100  
120 23.8 20.7 31.1  
77 17.1 13.5 20.3





#58

1,1,2,2-Tetrachloroethane

Concen: 1.454 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampled :

MDL05

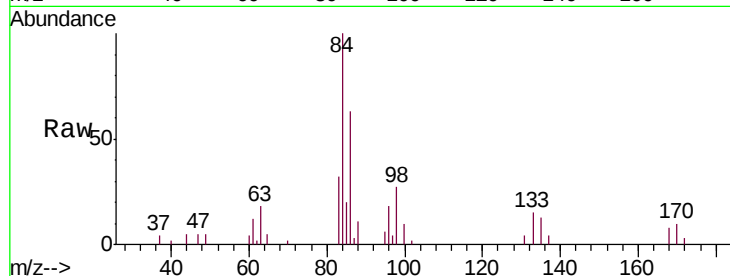
Tgt Ion: 83 Resp: 3526

Ion Ratio Lower Upper

83 100

85 62.4 45.8 85.2

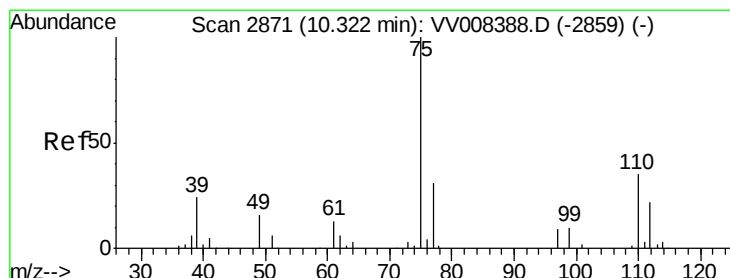
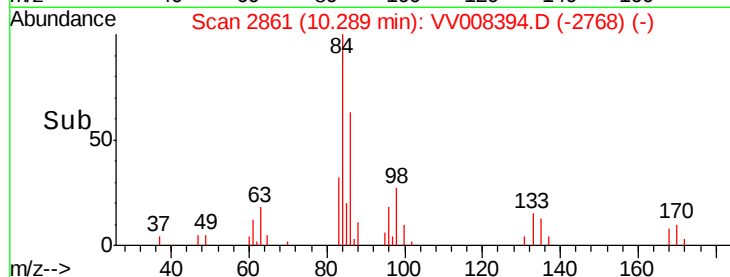
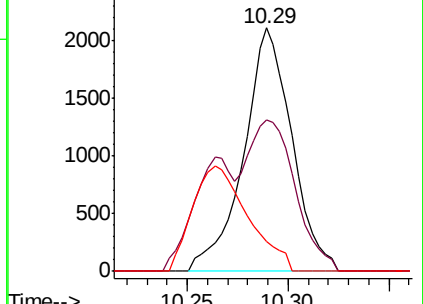
131 12.4 7.3 10.9#



Abundance Ion 83.00 (82.70 to 83.70): VV008388.D (-2848) (-)

Ion 85.00 (84.70 to 85.70): VV008388.D (-2848) (-)

Ion 131.00 (130.70 to 131.70): VV008388.D (-2848) (-)



#59

1,2,3-Trichloropropane

Concen: 1.318 ug/L

RT: 10.32 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VV008394.D

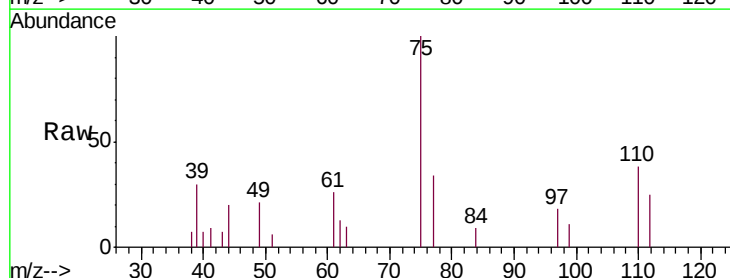
Acq: 24 Oct 2018 16:13

Tgt Ion: 75 Resp: 2587

Ion Ratio Lower Upper

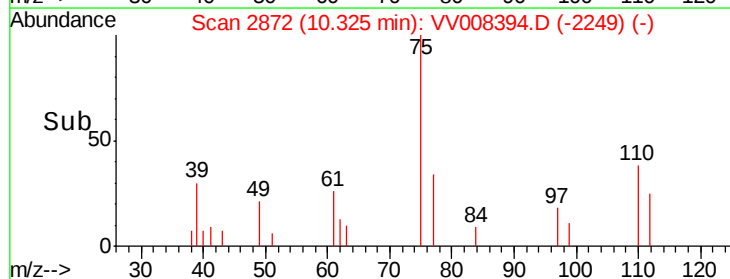
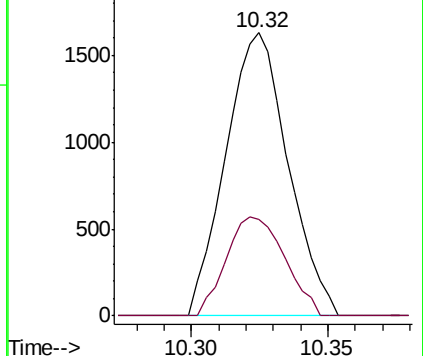
75 100

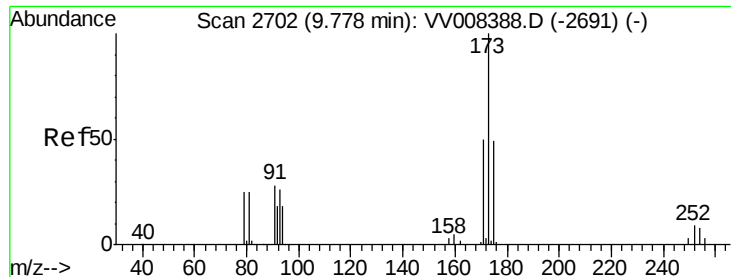
77 32.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV008388.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV008388.D (-2859) (-)





#61

Bromoform

Concen: 1.190 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampleId :

MDL05

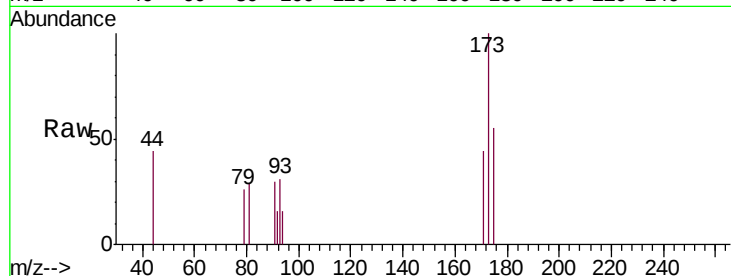
Tgt Ion:173 Resp: 1122

Ion Ratio Lower Upper

173 100

175 45.9 38.6 57.8

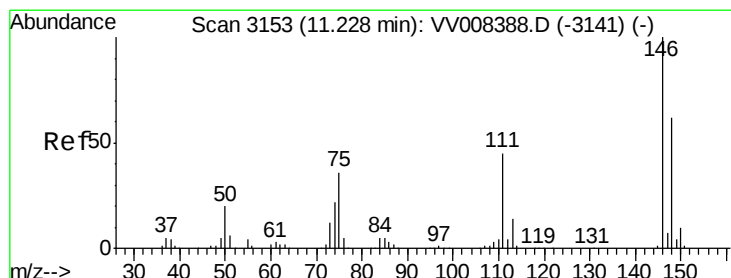
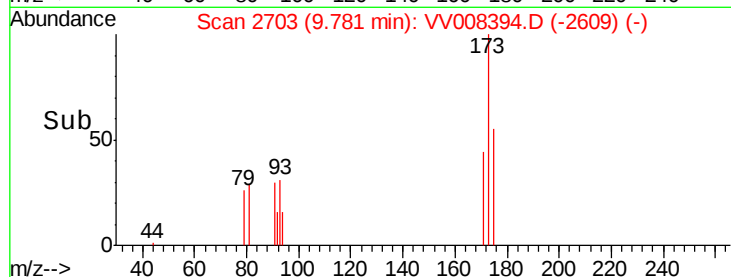
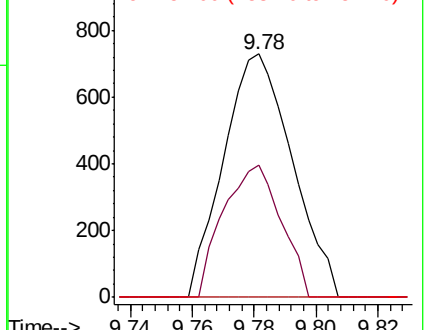
254 0.0 5.9 8.9#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 1.247 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

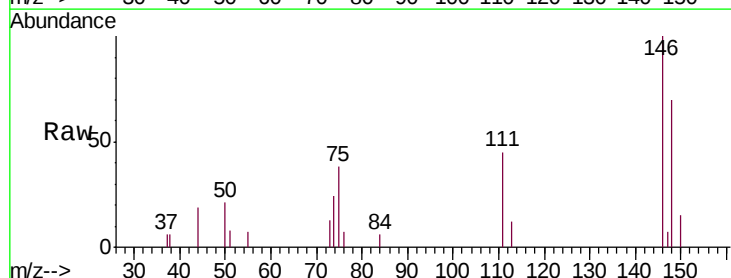
Tgt Ion:146 Resp: 3082

Ion Ratio Lower Upper

146 100

111 45.1 30.9 57.3

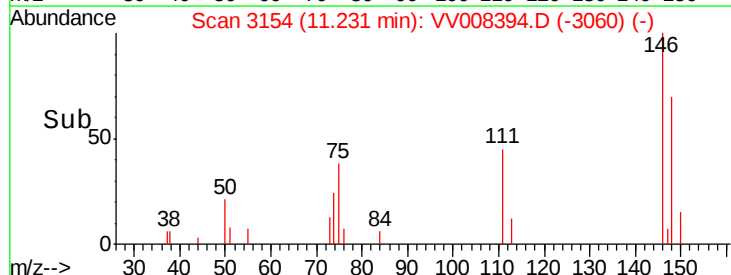
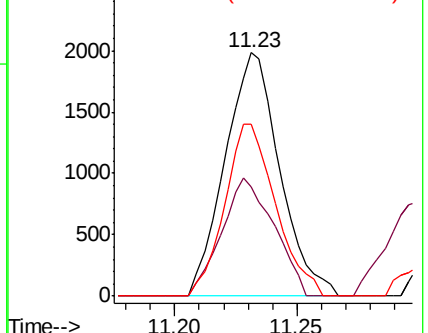
148 70.4 44.1 81.9

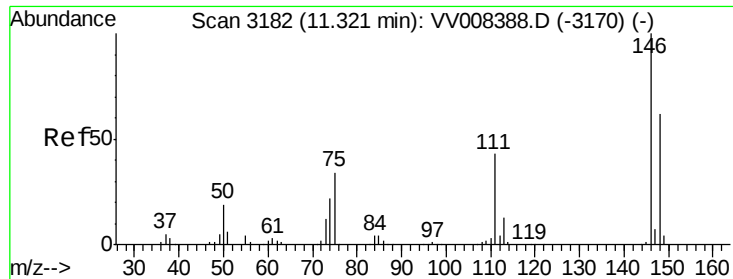


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

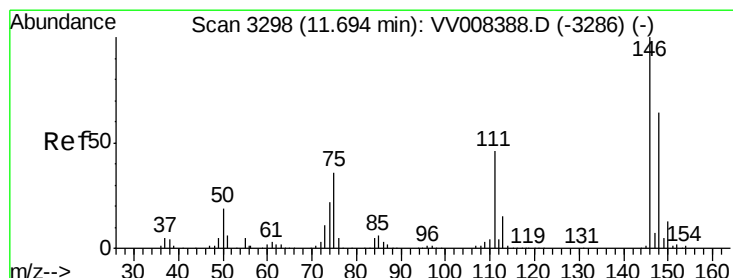
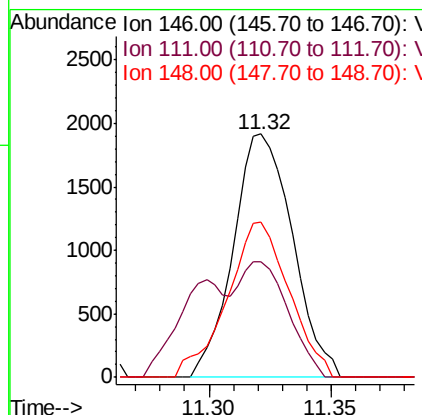
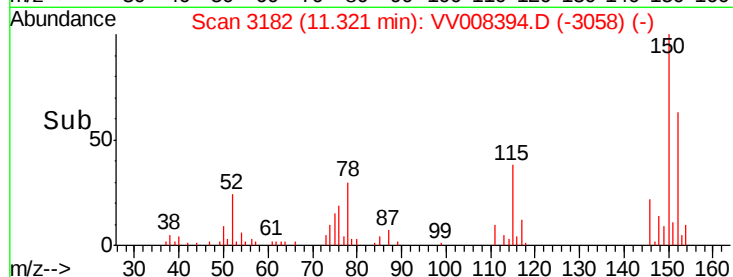
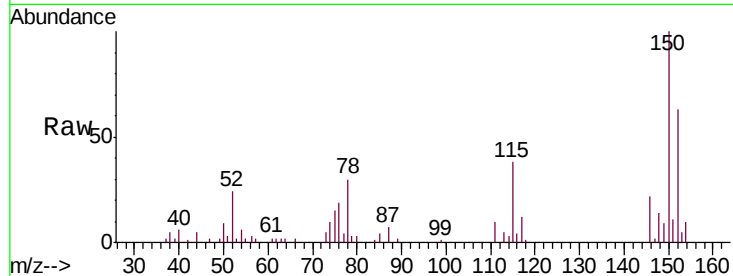




#63  
 1,4-Dichlorobenzene  
 Concen: 1.305 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

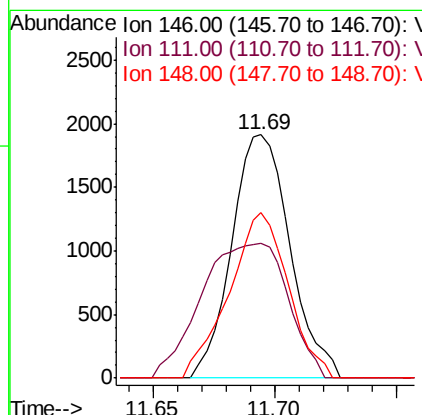
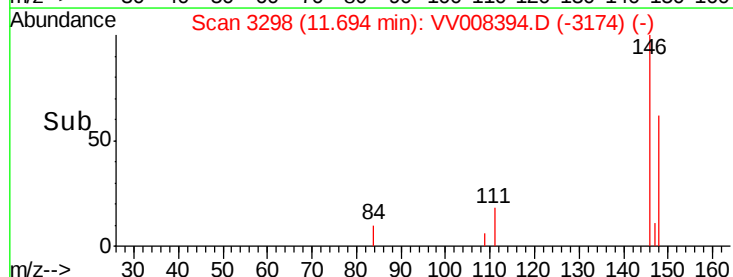
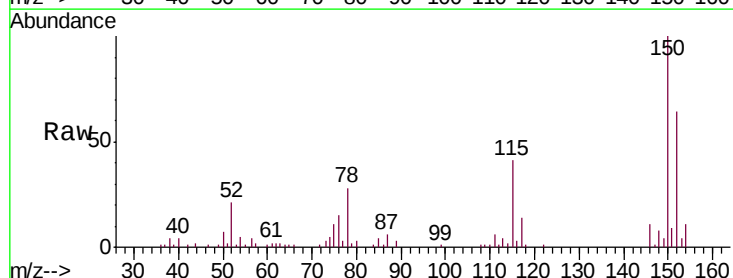
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL05

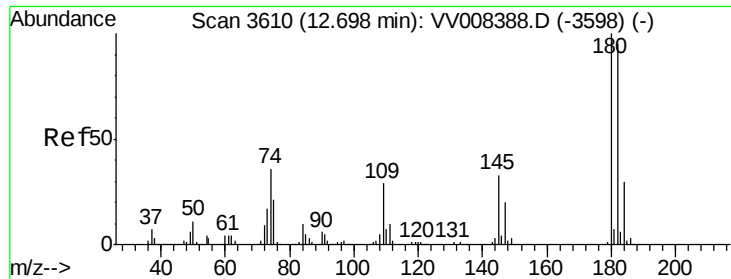
Tgt Ion:146 Resp: 3231  
 Ion Ratio Lower Upper  
 146 100  
 111 47.4 29.8 55.4  
 148 64.0 44.4 82.5



#65  
 1,2-Dichlorobenzene  
 Concen: 1.259 ug/L  
 RT: 11.69 min Scan# 3298  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

Tgt Ion:146 Resp: 3171  
 Ion Ratio Lower Upper  
 146 100  
 111 55.2 36.2 54.2#  
 148 68.2 50.3 75.5

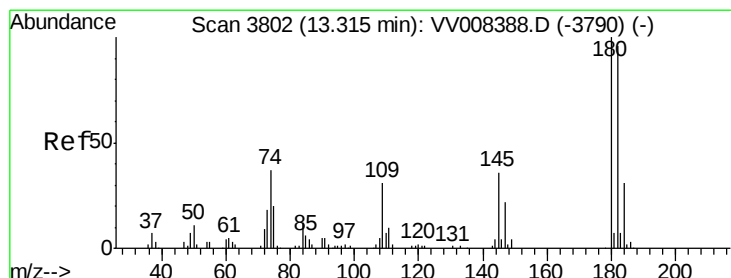
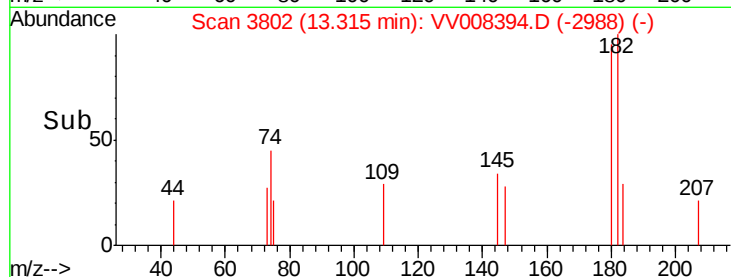
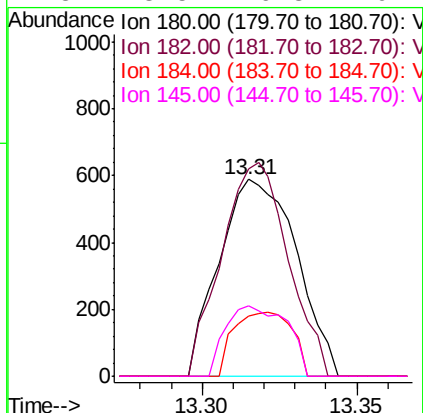
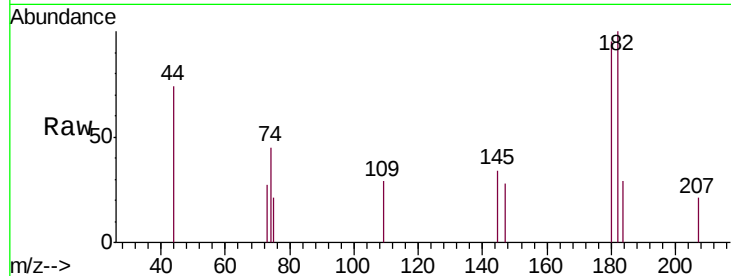




#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.633 ug/L  
 RT: 13.31 min Scan# 3802  
 Delta R.T. 0.62 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

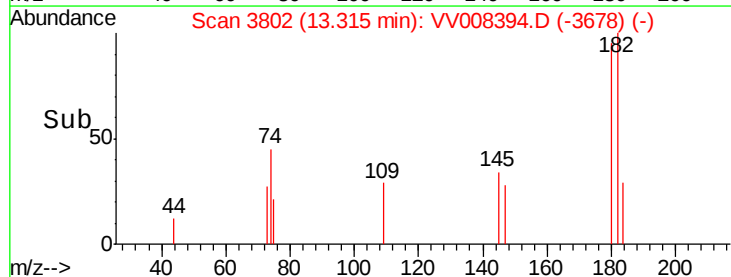
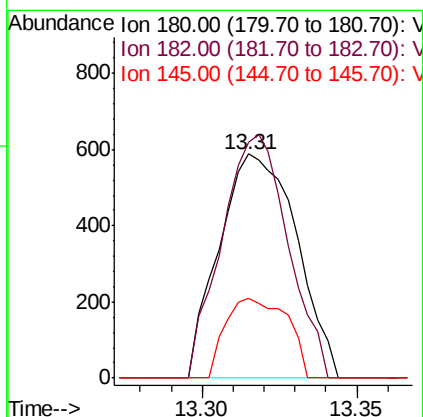
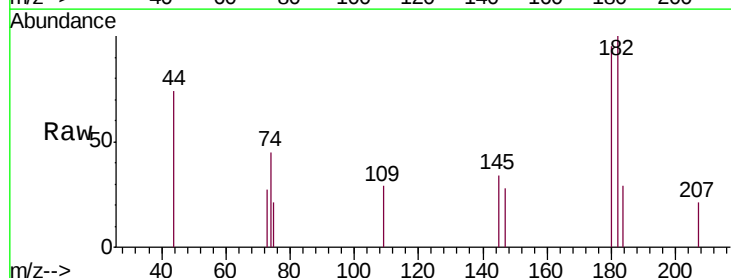
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

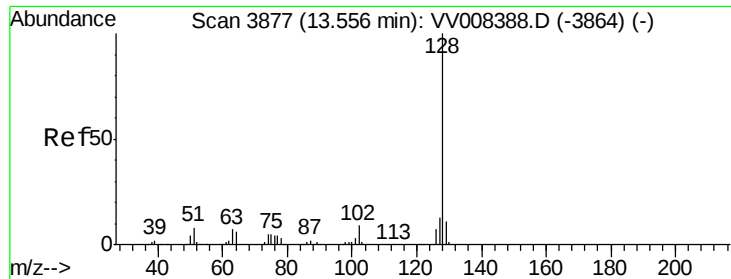
Tgt Ion:180 Resp: 1021  
 Ion Ratio Lower Upper  
 180 100  
 182 93.2 75.9 113.9  
 184 24.6 24.1 36.1  
 145 28.5 26.8 40.2



#68  
 1,2,4-trichlorobenzene  
 Concen: 0.782 ug/L  
 RT: 13.31 min Scan# 3802  
 Delta R.T. 0.00 min  
 Lab File: VV008394.D  
 Acq: 24 Oct 2018 16:13

Tgt Ion:180 Resp: 1021  
 Ion Ratio Lower Upper  
 180 100  
 182 93.2 75.4 113.2  
 145 28.5 27.0 40.6





#69

Naphthalene

Concen: 0.641 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

Instrument :

MSVOA\_V

ClientSampled :

MDL05

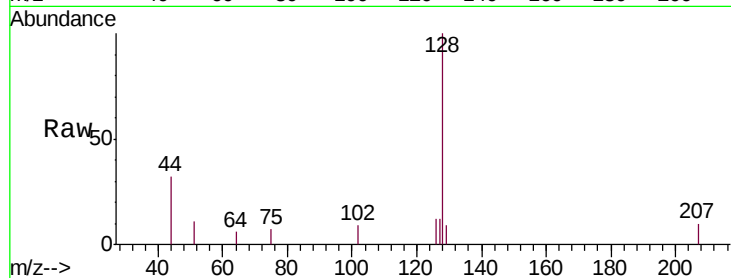
Tgt Ion:128 Resp: 2705

Ion Ratio Lower Upper

128 100

127 9.8 10.6 15.8#

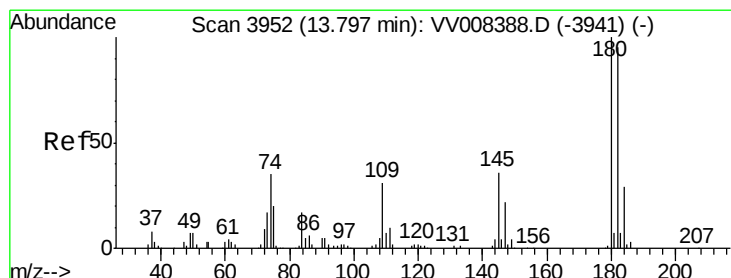
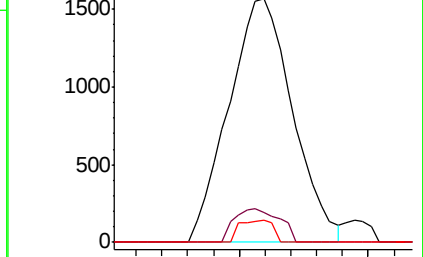
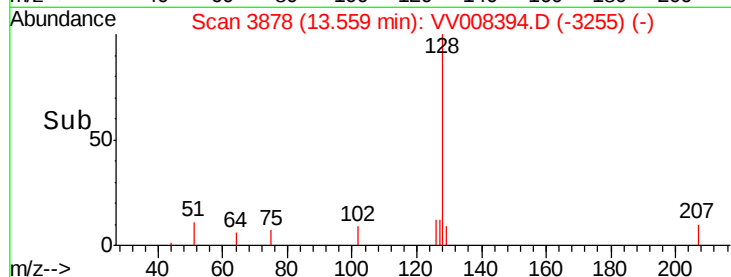
129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.700 ug/L

RT: 13.80 min Scan# 3953

Delta R.T. 0.00 min

Lab File: VV008394.D

Acq: 24 Oct 2018 16:13

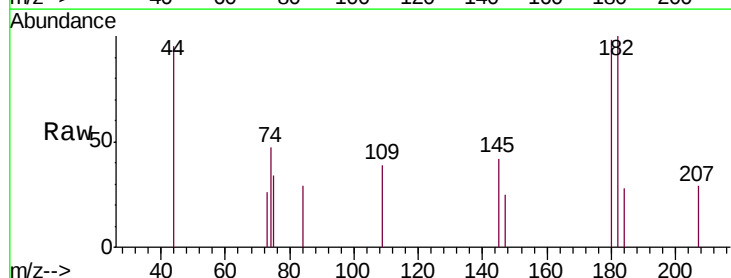
Tgt Ion:180 Resp: 913

Ion Ratio Lower Upper

180 100

182 104.5 75.7 113.5

145 32.7 28.6 43.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

