

Data File : VW005043.D  
Acq On : 31 Aug 2018 14:47  
Operator : SY/AP  
Sample : VSTD02589  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02589

Quant Time: Aug 31 15:19:19 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM083118S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 31 14:18:30 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 677958   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 686829   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 364098   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 234822 | 18.33 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 180169 | 18.96 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.03  | 63  | 325732 | 19.91 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 132611 | 50.85 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 351734 | 23.37 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 194251 | 23.75 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.28  | 84  | 815246 | 23.08 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 231625 | 22.31 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.33 | 98  | 853956 | 22.82 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.59 | 79  | 104599 | 23.42 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 124034 | 48.23 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70 | 84  | 238693 | 22.89 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 332004 | 22.70 | ug/L | 0.00 |

Target Compounds

|                                |       |     |        |             | Qvalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 220536 | 17.293 ug/L | 99     |
| 3) Chloromethane               | 2.21  | 50  | 240183 | 16.619 ug/L | 99     |
| 5) Vinyl chloride              | 2.36  | 62  | 244359 | 16.693 ug/L | 100    |
| 6) Bromomethane                | 2.77  | 94  | 138440 | 18.054 ug/L | 100    |
| 8) Chloroethane                | 2.92  | 64  | 144217 | 17.630 ug/L | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 268677 | 18.138 ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 182104 | 20.552 ug/L | 97     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 151095 | 19.143 ug/L | 97     |
| 13) Acetone                    | 4.14  | 43  | 75144  | 37.199 ug/L | 99     |
| 14) Carbon disulfide           | 4.39  | 76  | 539643 | 16.500 ug/L | 99     |
| 15) Methyl Acetate             | 4.68  | 43  | 103009 | 22.552 ug/L | 95     |
| 16) Methylene chloride         | 4.92  | 84  | 225280 | 17.136 ug/L | 93     |
| 17) Methyl tert-butyl Ether    | 5.44  | 73  | 386131 | 22.648 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.43  | 96  | 172275 | 20.961 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 6.23  | 63  | 298356 | 19.887 ug/L | 96     |
| 21) 2-Butanone                 | 7.18  | 43  | 127987 | 41.146 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.18  | 96  | 188201 | 21.220 ug/L | 95     |
| 23) Bromochloromethane         | 7.53  | 128 | 91323  | 19.500 ug/L | 92     |
| 25) Chloroform                 | 7.68  | 83  | 312652 | 20.792 ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.41  | 62  | 208406 | 21.145 ug/L | 99     |
| 30) Cyclohexane                | 7.96  | 56  | 284523 | 19.460 ug/L | 96     |
| 31) 1,1,1-Trichloroethane      | 7.88  | 97  | 276444 | 20.897 ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 247465 | 20.914 ug/L | 100    |
| 34) Benzene                    | 8.33  | 78  | 782561 | 19.983 ug/L | 100    |
| 35) Trichloroethene            | 9.10  | 95  | 195317 | 20.057 ug/L | 97     |
| 36) Methylcyclohexane          | 9.34  | 83  | 345988 | 19.209 ug/L | 98     |
| 40) 1,2-Dichloropropane        | 9.38  | 63  | 192536 | 19.986 ug/L | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 229277 | 21.600 ug/L | 98     |
| 42) cis-1,3-Dichloropropene    | 10.08 | 75  | 281777 | 21.072 ug/L | 99     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 291687 | 41.017 ug/L | 97     |

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Quant Title : VOC Analysis  
QLast Update : Fri Aug 31 14:18:30 2018  
Response via : Initial Calibration

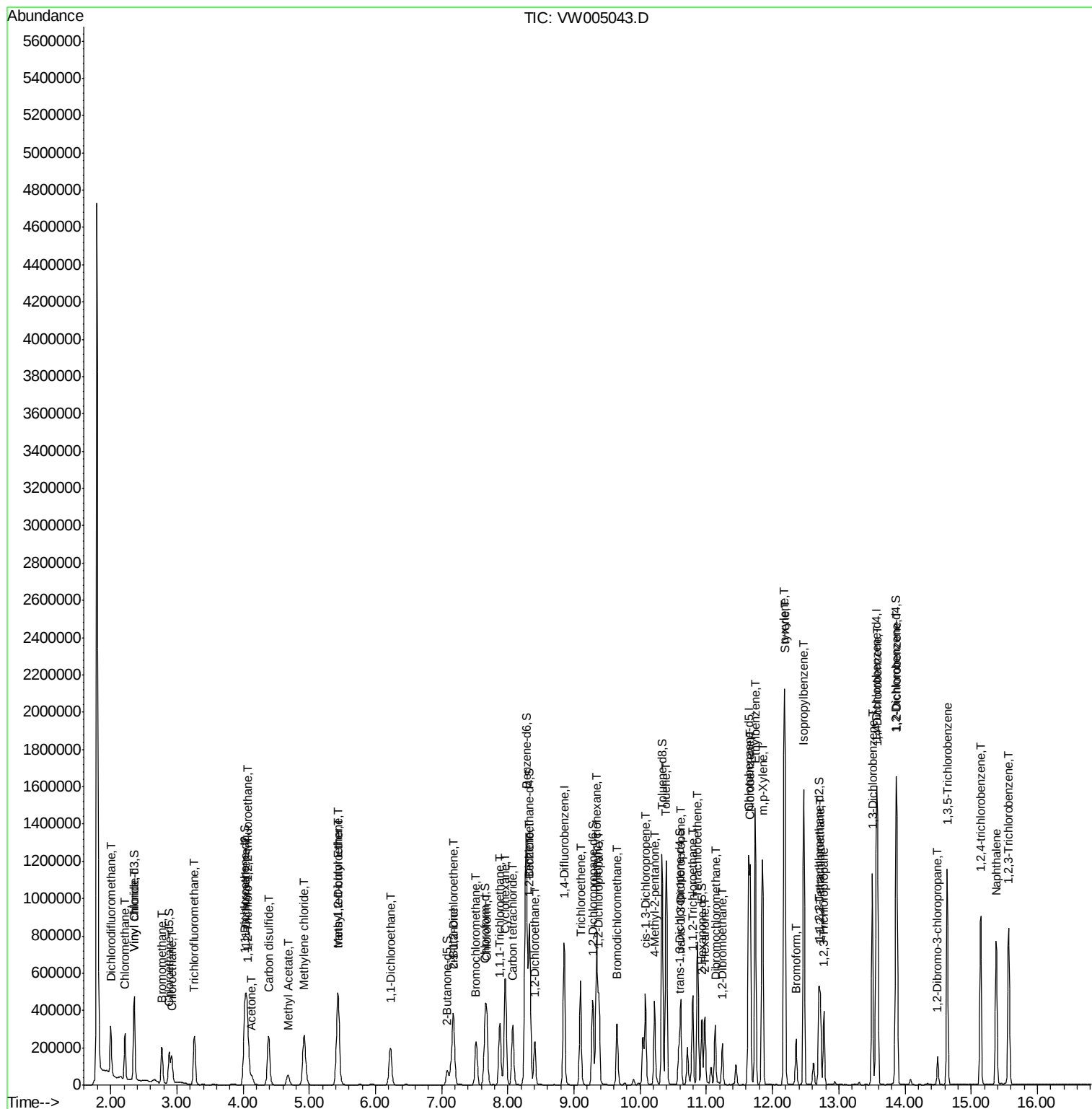
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.40 | 91   | 937690   | 19.938 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 251299   | 20.720 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 158921   | 21.135 | ug/L  | 97       |
| 47) Tetrachloroethene          | 10.87 | 164  | 190549   | 19.987 | ug/L  | 97       |
| 49) 2-Hexanone                 | 10.98 | 43   | 222404   | 40.470 | ug/L  | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 179803   | 21.539 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 151316   | 20.500 | ug/L  | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 614985   | 19.685 | ug/L  | 98       |
| 53) Ethylbenzene               | 11.74 | 91   | 1038076  | 19.616 | ug/L  | 98       |
| 54) m,p-Xylene                 | 11.85 | 106  | 415640   | 20.245 | ug/L  | 96       |
| 55) o-xylene                   | 12.17 | 106  | 389089   | 20.284 | ug/L  | 99       |
| 56) Styrene                    | 12.19 | 104  | 687632   | 20.864 | ug/L  | 100      |
| 57) Isopropylbenzene           | 12.47 | 105  | 1035035  | 20.201 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 214447   | 20.011 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 166012   | 20.104 | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 119365   | 20.677 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 491640   | 19.599 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 516809   | 19.679 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 482384   | 20.070 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 38631    | 18.953 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.64 | 180  | 396015   | 19.730 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 321915   | 19.864 | ug/L  | 99       |
| 69) Naphthalene                | 15.38 | 128  | 684635   | 20.783 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 312657   | 20.483 | ug/L  | 99       |

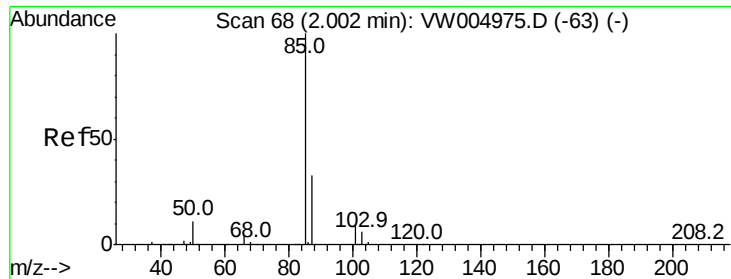
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 17.293 ug/L

RT: 2.00 min Scan# 68

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

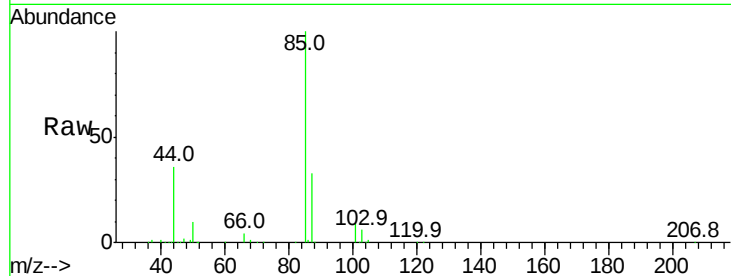
VSTD02589

Tgt Ion: 85 Resp: 220536

Ion Ratio Lower Upper

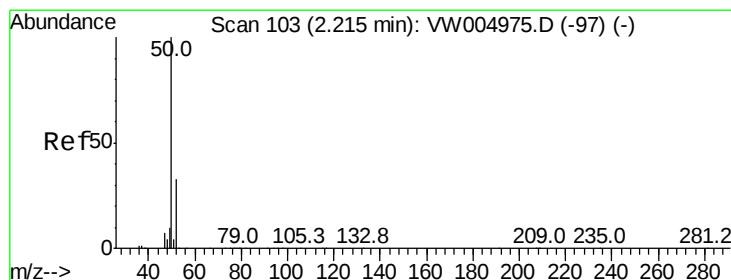
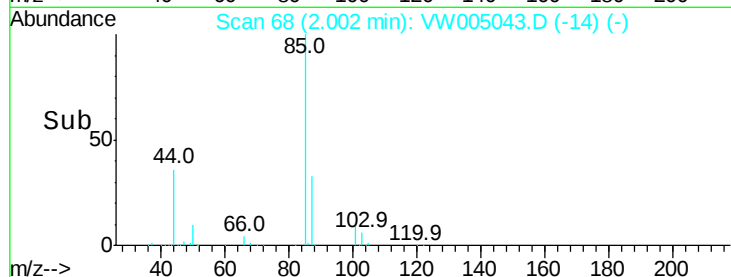
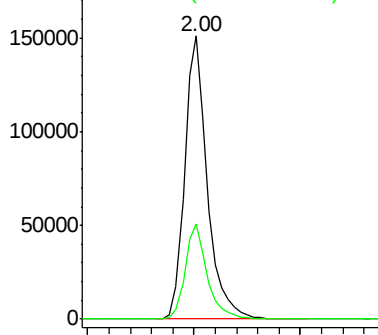
85 100

87 32.8 22.6 42.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 16.619 ug/L

RT: 2.21 min Scan# 103

Delta R.T. -0.00 min

Lab File: VW005043.D

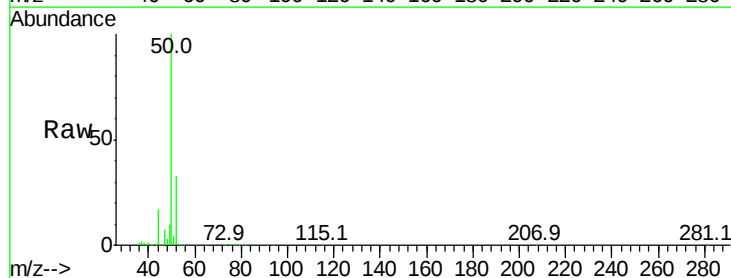
Acq: 31 Aug 2018 14:47

Tgt Ion: 50 Resp: 240183

Ion Ratio Lower Upper

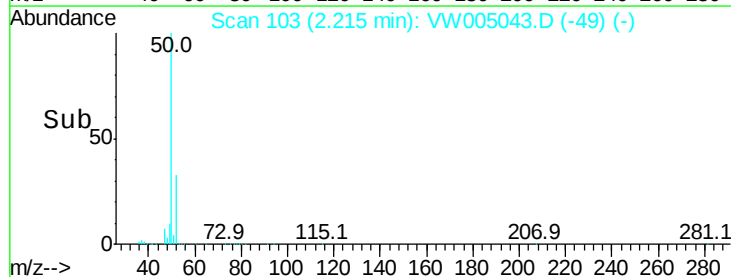
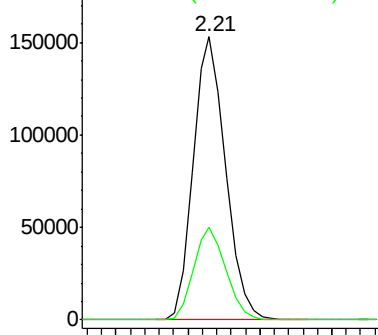
50 100

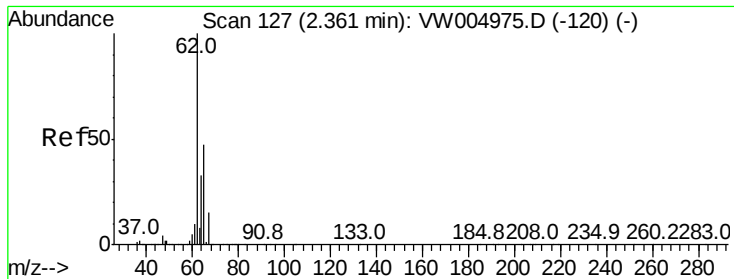
52 32.9 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 16.693 ug/L

RT: 2.36 min Scan# 127

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

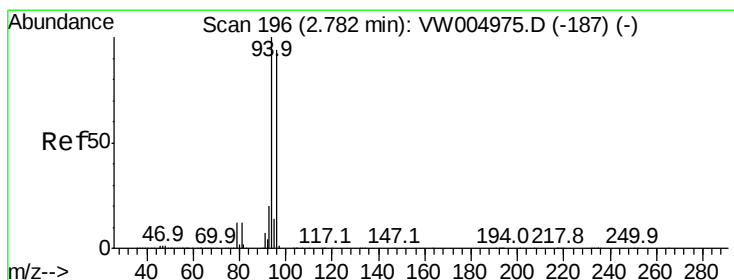
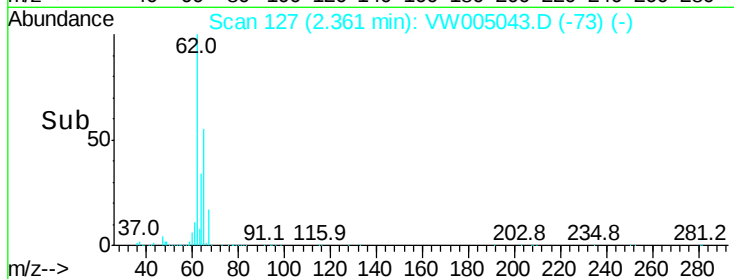
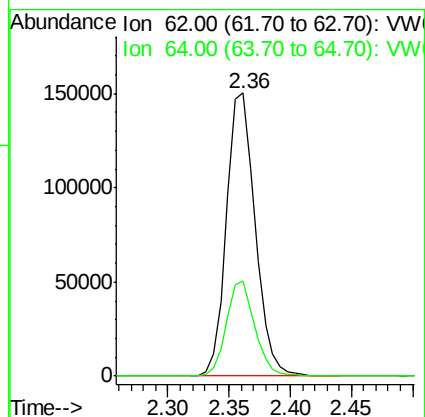
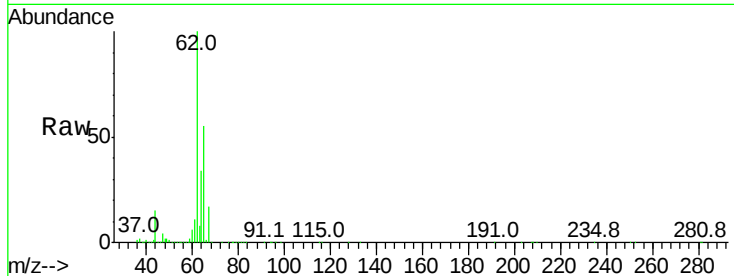
VSTD02589

Tgt Ion: 62 Resp: 244359

Ion Ratio Lower Upper

62 100

64 33.5 23.3 43.3



#6

Bromomethane

Concen: 18.054 ug/L

RT: 2.77 min Scan# 194

Delta R.T. -0.01 min

Lab File: VW005043.D

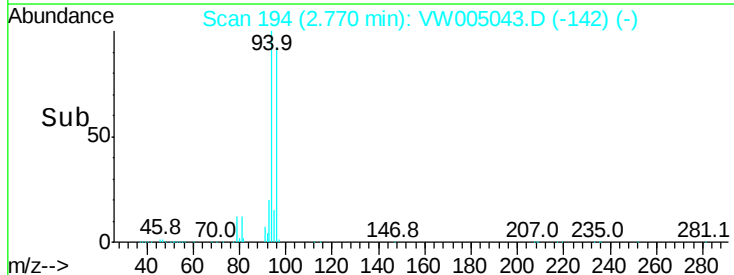
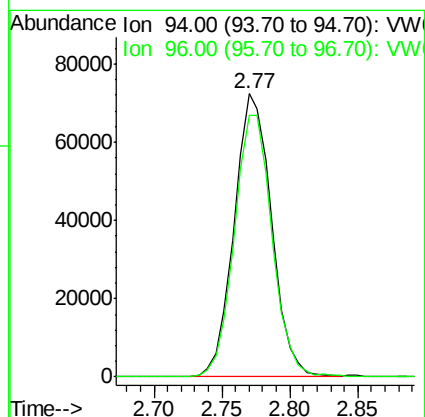
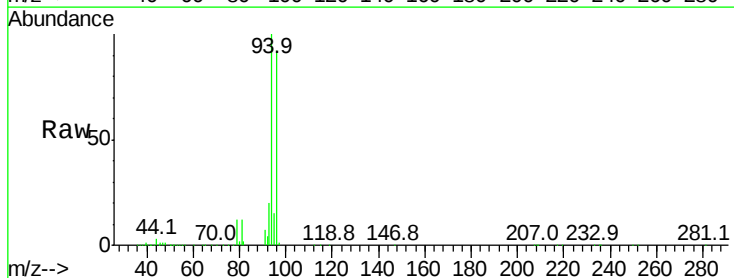
Acq: 31 Aug 2018 14:47

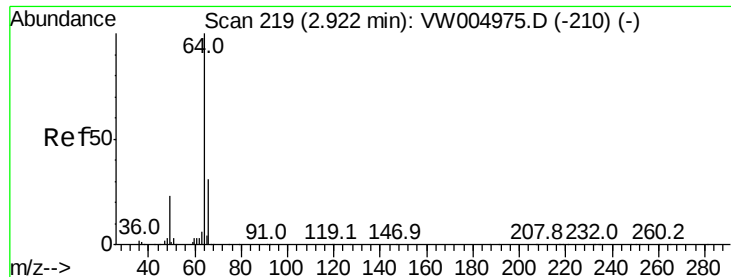
Tgt Ion: 94 Resp: 138440

Ion Ratio Lower Upper

94 100

96 94.0 9.3 177.7





#8

Chloroethane

Concen: 17.630 ug/L

RT: 2.92 min Scan# 219

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

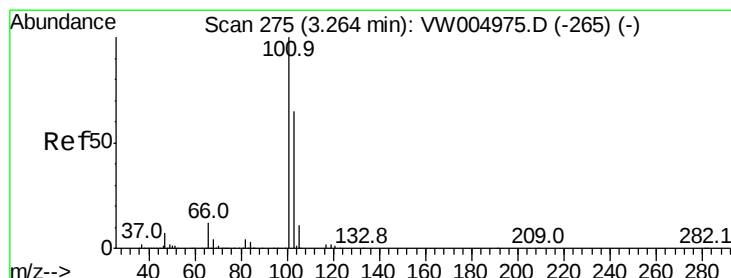
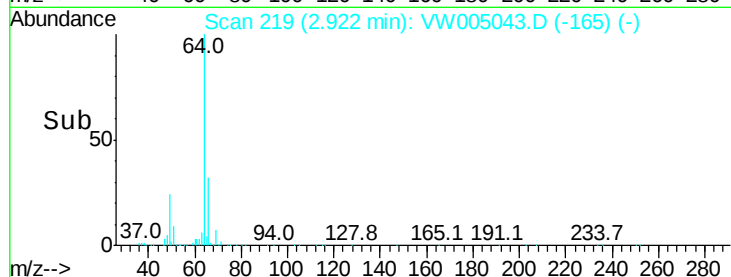
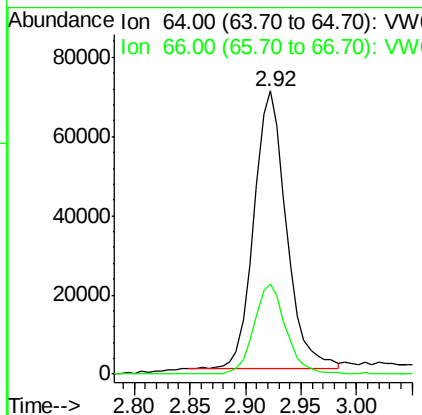
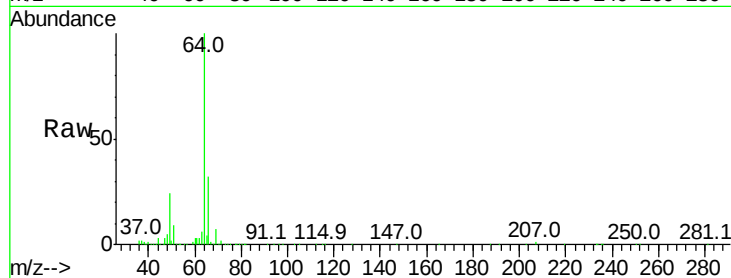
VSTD02589

Tgt Ion: 64 Resp: 144217

Ion Ratio Lower Upper

64 100

66 32.0 21.5 39.9



#9

Trichlorofluoromethane

Concen: 18.138 ug/L

RT: 3.26 min Scan# 275

Delta R.T. -0.00 min

Lab File: VW005043.D

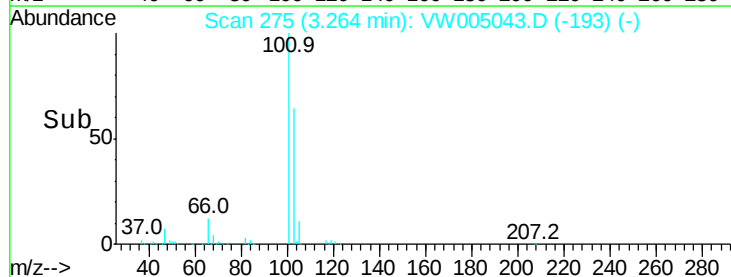
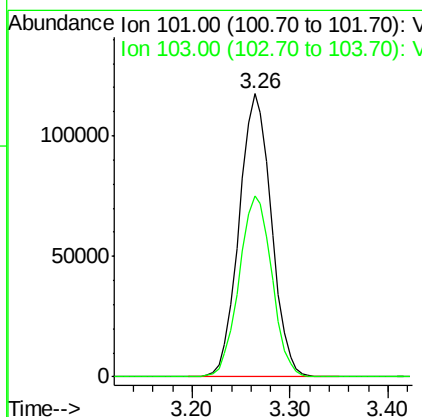
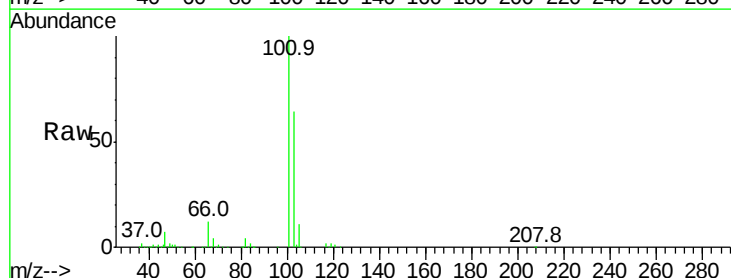
Acq: 31 Aug 2018 14:47

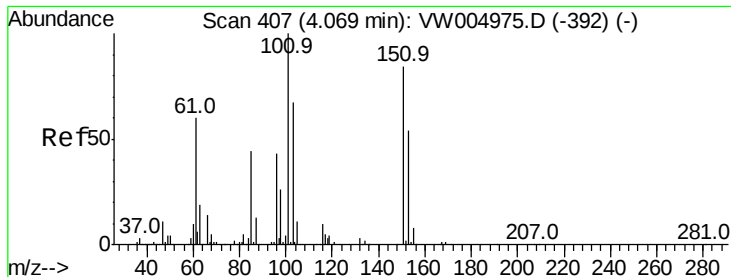
Tgt Ion: 101 Resp: 268677

Ion Ratio Lower Upper

101 100

103 64.9 45.1 83.7





#11

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

Concen: 20.552 ug/L

RT: 4.07 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

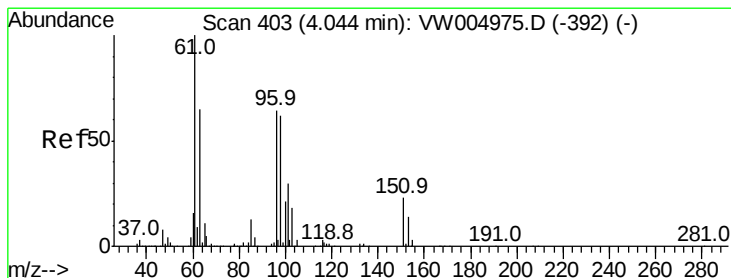
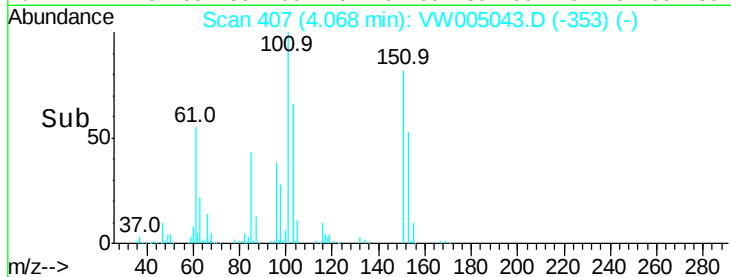
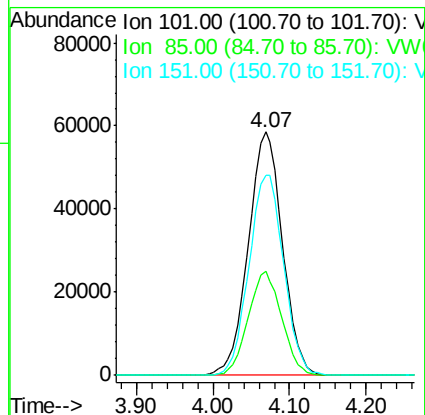
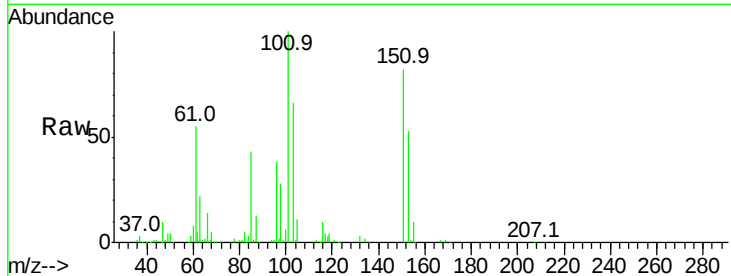
Instrument :

MSVOA\_W

ClientSampleId :

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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 101   | Resp: | 182104 |
| Ion      | Ratio | Lower | Upper  |
| 101      | 100   |       |        |
| 85       | 41.6  | 34.2  | 51.2   |
| 151      | 83.5  | 64.1  | 96.1   |



#12

1,1-Dichloroethene

Concen: 19.143 ug/L

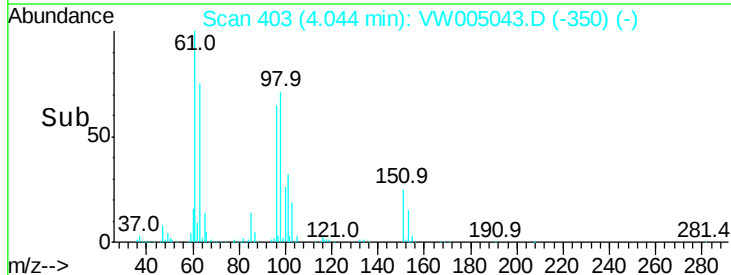
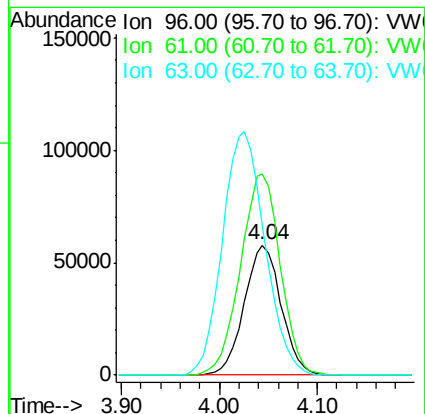
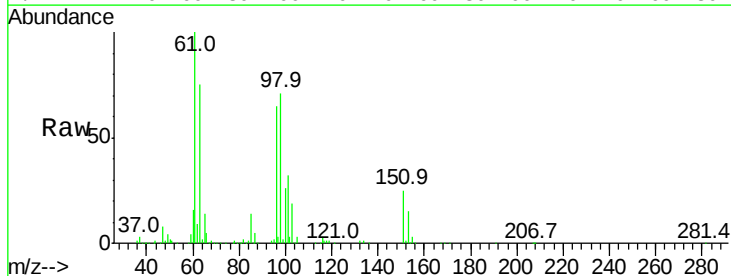
RT: 4.04 min Scan# 403

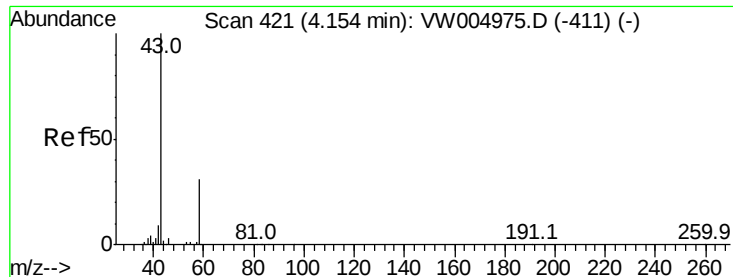
Delta R.T. -0.01 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 151095 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 154.9 | 107.0 | 198.8  |
| 63       | 116.0 | 76.9  | 142.7  |





#13

Acetone

Concen: 37.199 ug/L

RT: 4.14 min Scan# 418

Delta R.T. -0.01 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

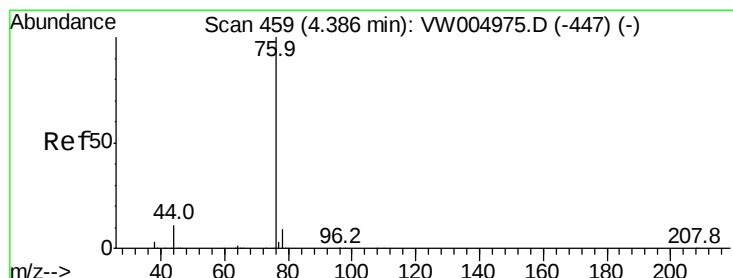
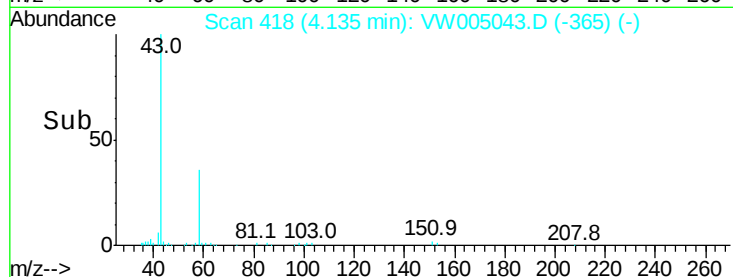
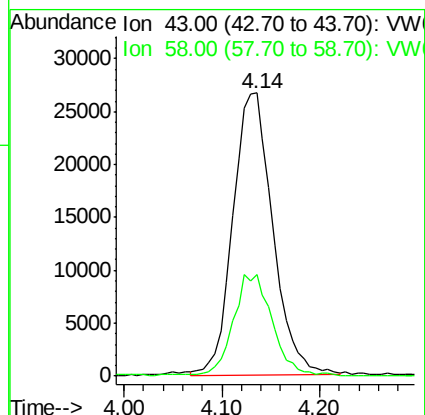
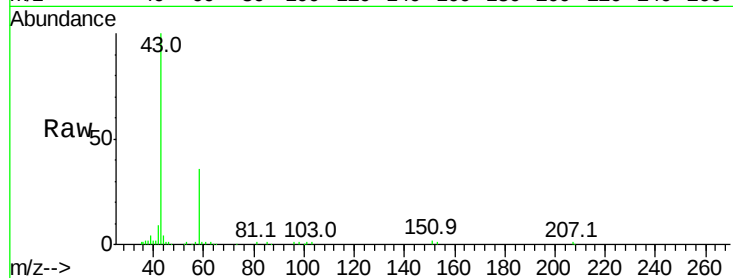
VSTD02589

Tgt Ion: 43 Resp: 75144

Ion Ratio Lower Upper

43 100

58 35.2 0.0 69.4



#14

Carbon disulfide

Concen: 16.500 ug/L

RT: 4.39 min Scan# 459

Delta R.T. -0.00 min

Lab File: VW005043.D

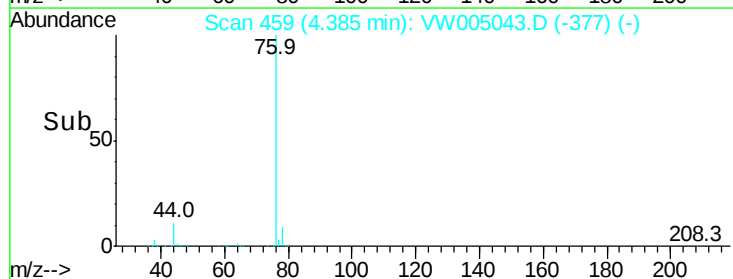
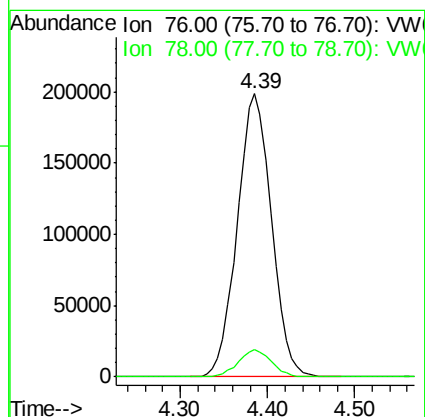
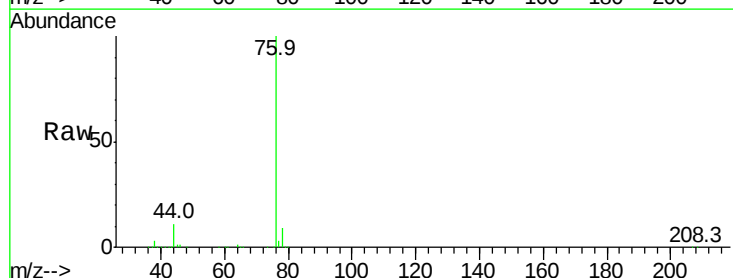
Acq: 31 Aug 2018 14:47

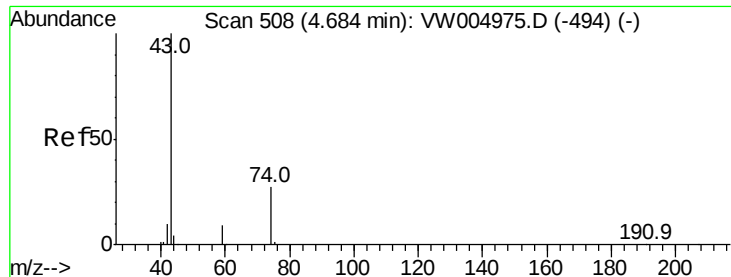
Tgt Ion: 76 Resp: 539643

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.0





#15

Methyl Acetate

Concen: 22.552 ug/L

RT: 4.68 min Scan# 507

Delta R.T. -0.01 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

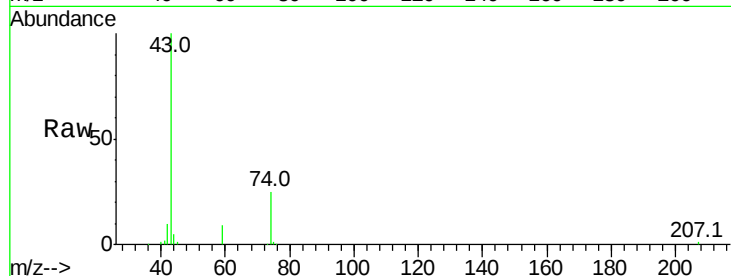
VSTD02589

Tgt Ion: 43 Resp: 103009

Ion Ratio Lower Upper

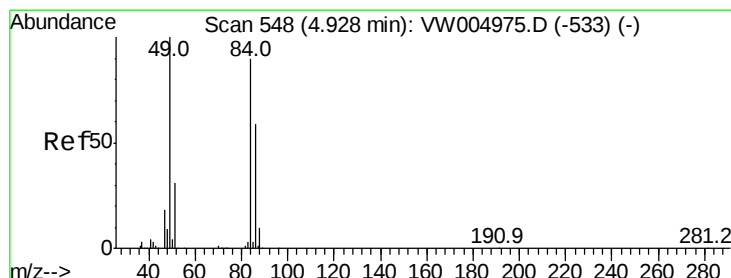
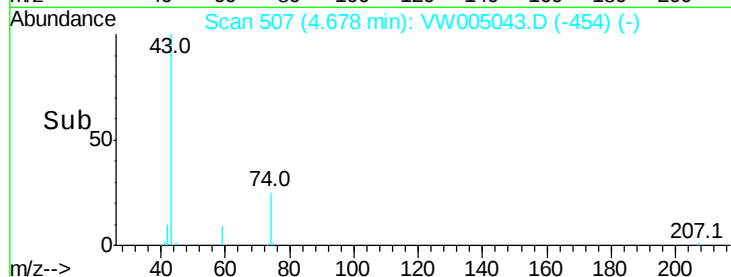
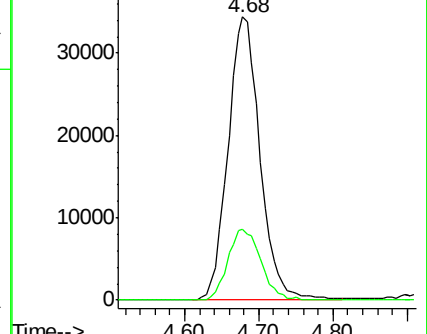
43 100

74 25.7 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 17.136 ug/L

RT: 4.92 min Scan# 547

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

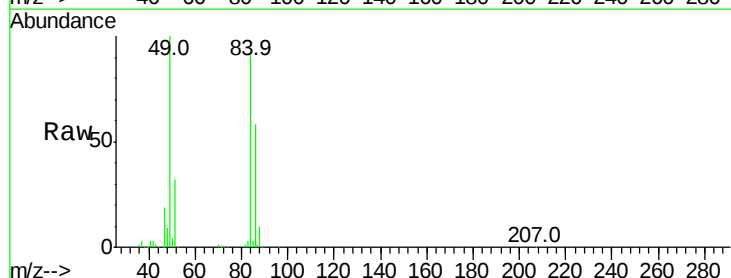
Tgt Ion: 84 Resp: 225280

Ion Ratio Lower Upper

84 100

49 110.5 83.8 155.6

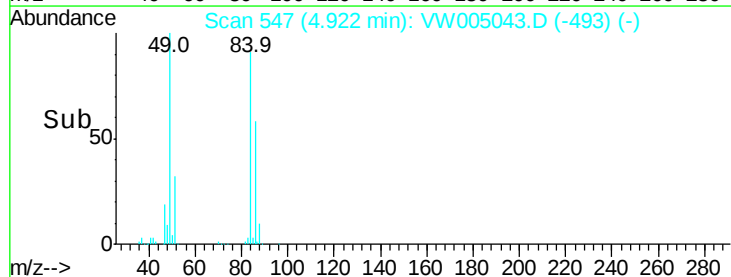
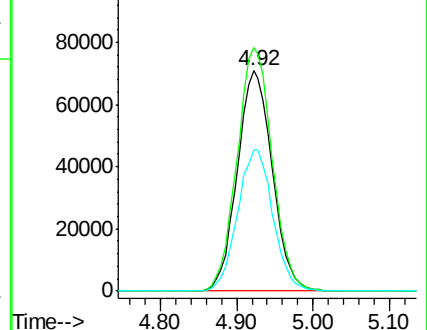
86 63.9 42.6 79.0

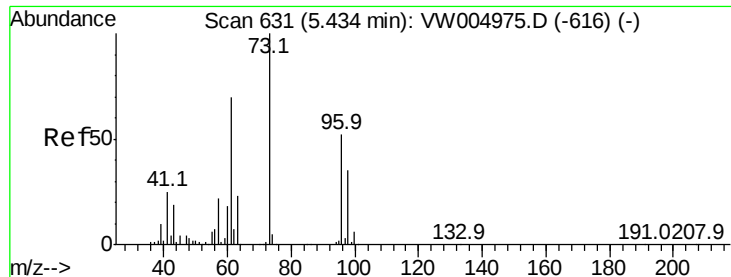


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

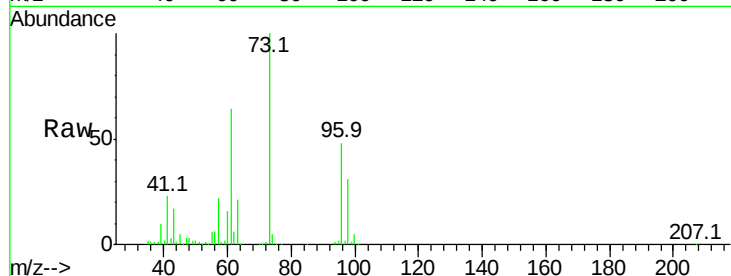




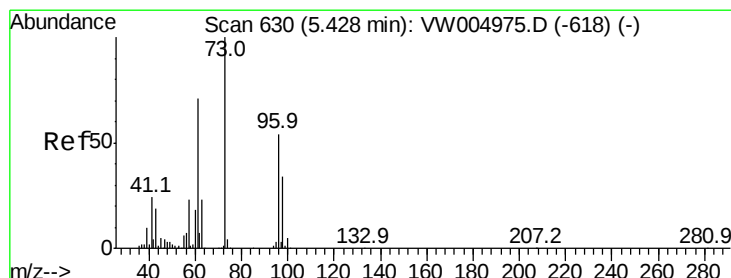
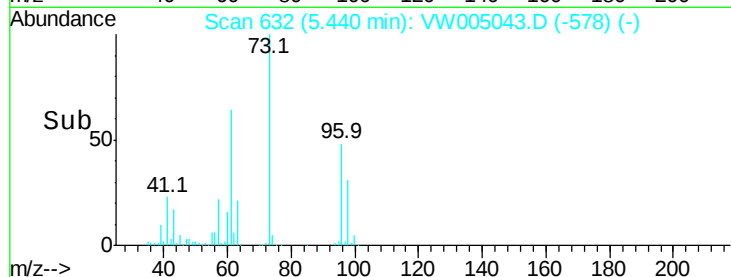
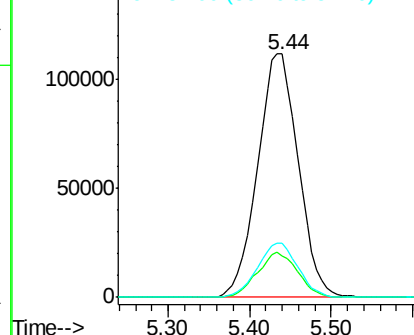
#17  
Methyl tert-butyl Ether  
Concen: 22.648 ug/L  
RT: 5.44 min Scan# 632  
Delta R.T. -0.00 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02589

Tgt Ion: 73 Resp: 386131  
Ion Ratio Lower Upper  
73 100  
43 18.5 14.6 22.0  
57 22.3 18.2 27.4

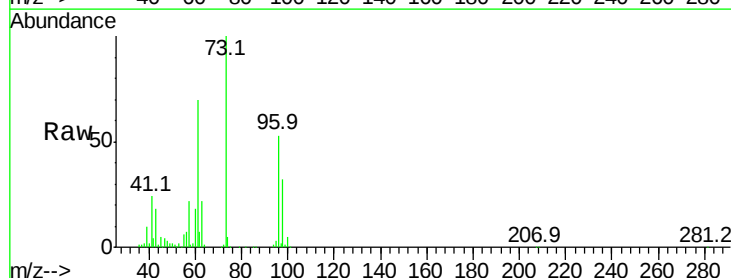


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

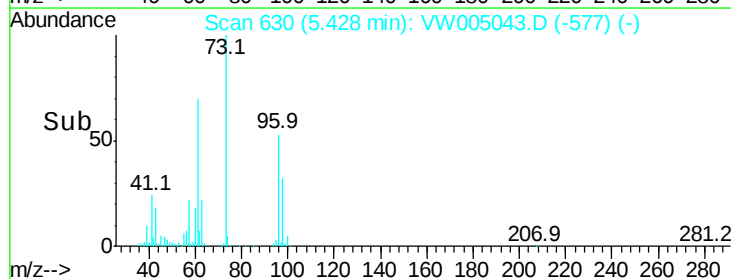
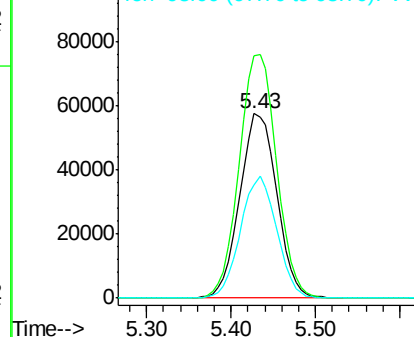


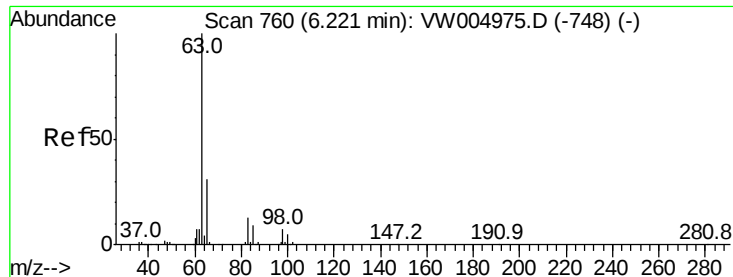
#18  
trans-1,2-Dichloroethene  
Concen: 20.961 ug/L  
RT: 5.43 min Scan# 630  
Delta R.T. -0.01 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

Tgt Ion: 96 Resp: 172275  
Ion Ratio Lower Upper  
96 100  
61 131.8 92.5 171.9  
98 61.2 42.8 79.4



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

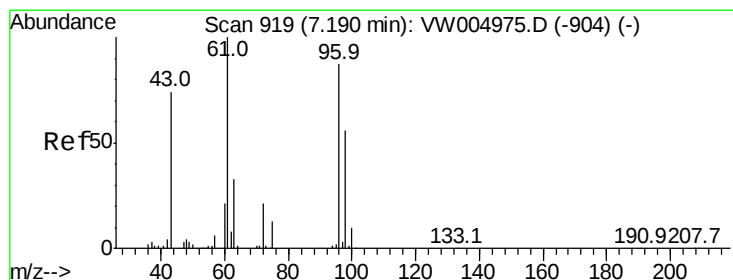
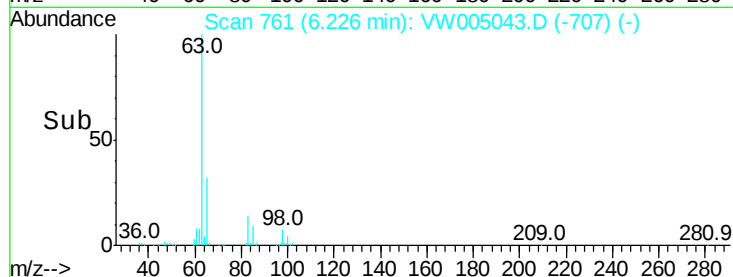
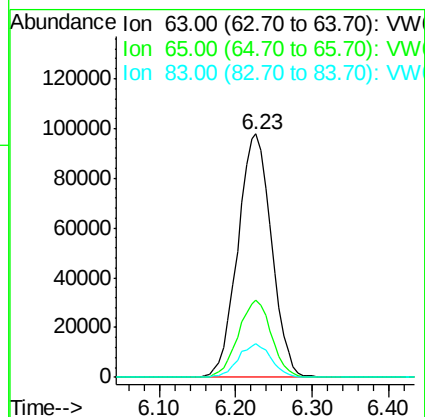
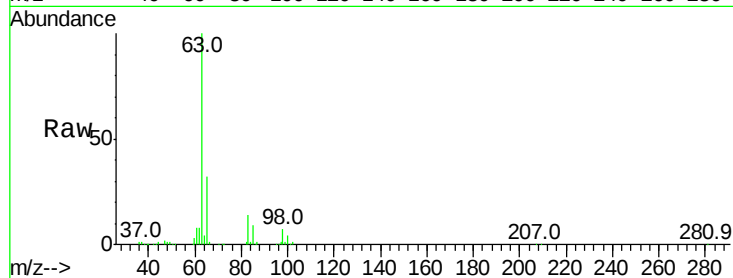




#19  
 1,1-Dichloroethane  
 Concen: 19.887 ug/L  
 RT: 6.23 min Scan# 761  
 Delta R.T. -0.00 min  
 Lab File: VW005043.D  
 Acq: 31 Aug 2018 14:47

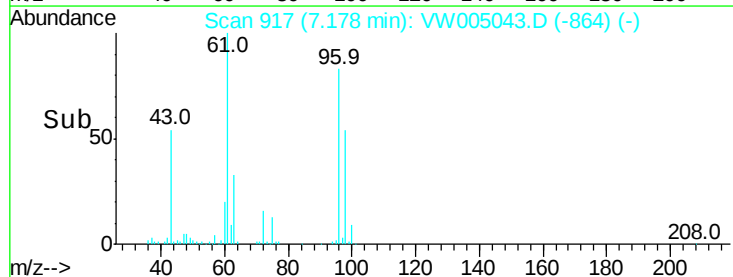
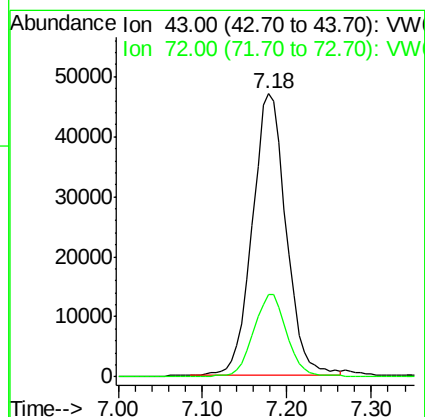
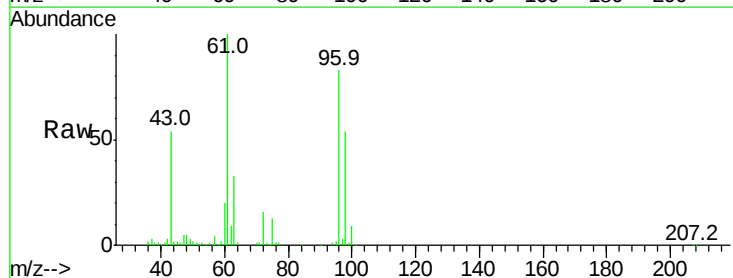
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02589

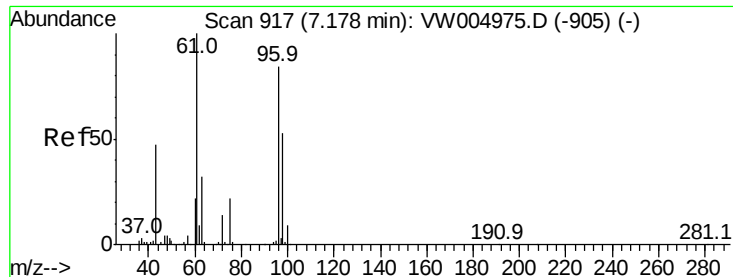
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.7  | 20.5  | 38.1  |
| 83      | 14.0  | 8.8   | 16.4  |



#21  
 2-Butanone  
 Concen: 41.146 ug/L  
 RT: 7.18 min Scan# 917  
 Delta R.T. -0.01 min  
 Lab File: VW005043.D  
 Acq: 31 Aug 2018 14:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 28.8  | 14.2  | 42.8  |



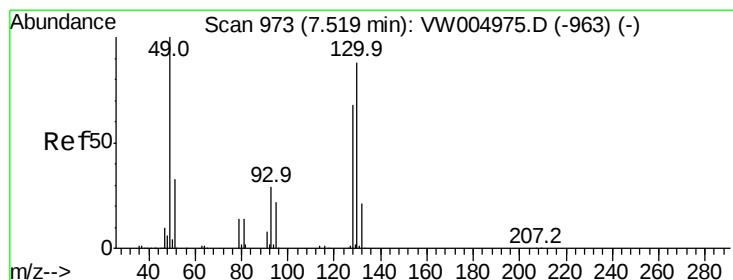
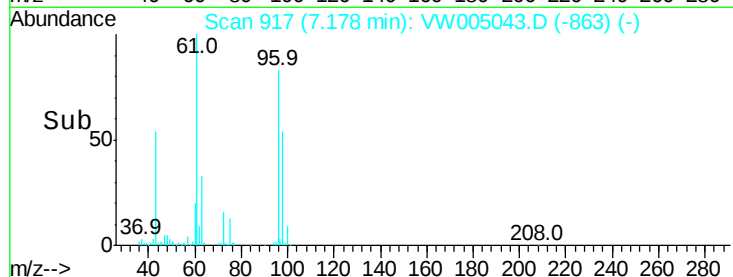
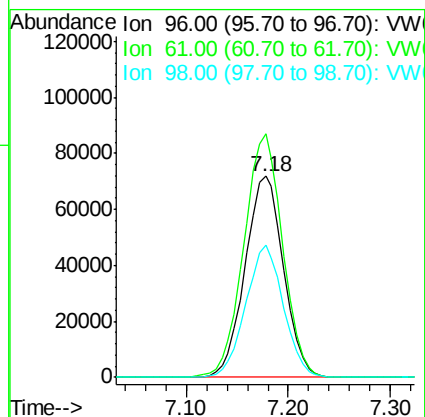
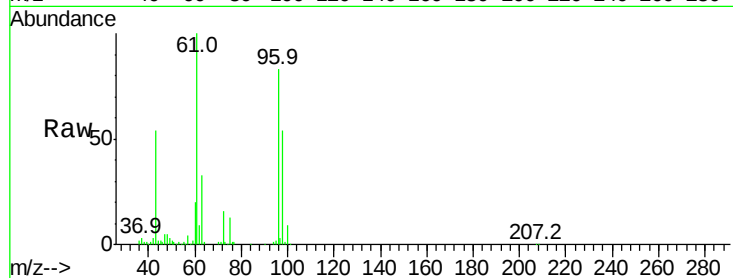


#22

cis-1,2-Dichloroethene  
Concen: 21.220 ug/L  
RT: 7.18 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02589

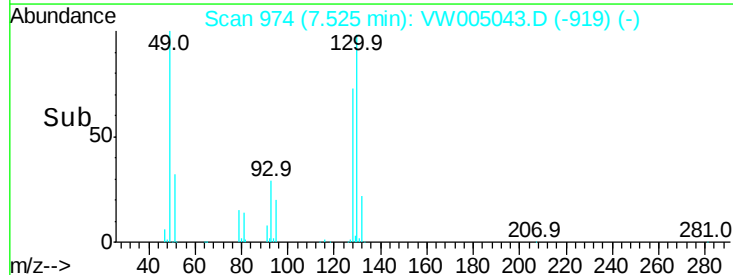
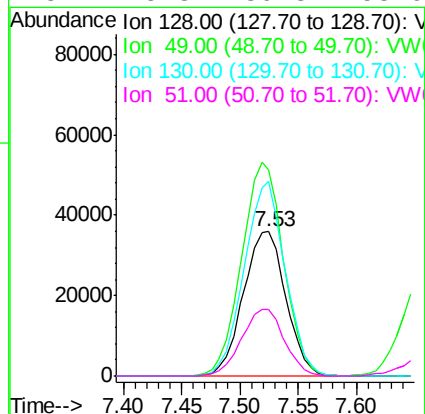
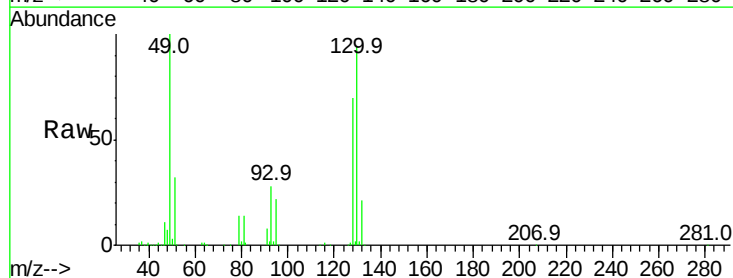
Tgt Ion: 96 Resp: 188201  
Ion Ratio Lower Upper  
96 100  
61 121.1 89.7 166.7  
98 65.5 45.0 83.6

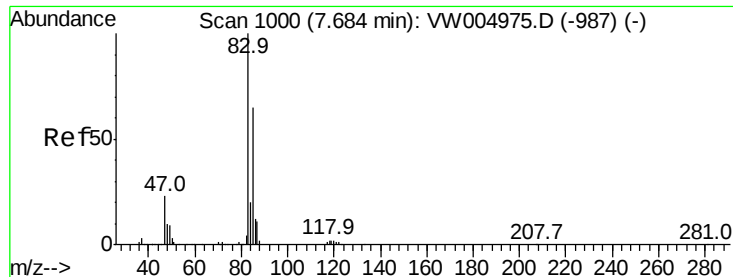


#23

Bromochloromethane  
Concen: 19.500 ug/L  
RT: 7.53 min Scan# 974  
Delta R.T. 0.01 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

Tgt Ion: 128 Resp: 91323  
Ion Ratio Lower Upper  
128 100  
49 142.9 111.3 206.7  
130 135.0 90.2 167.6  
51 45.8 39.3 58.9





#25

Chloroform

Concen: 20.792 ug/L

RT: 7.68 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

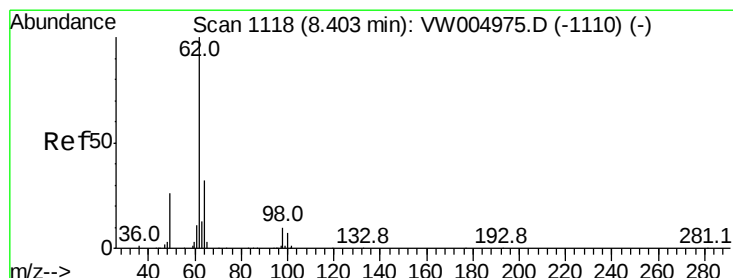
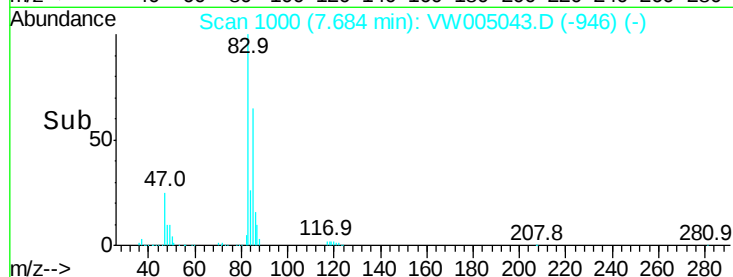
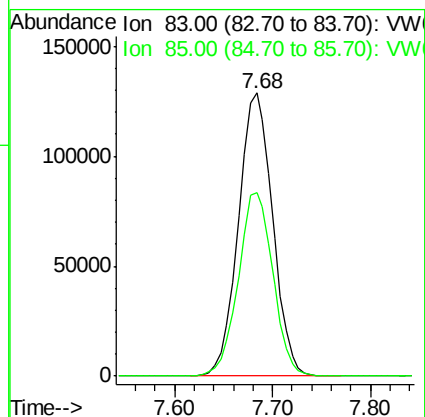
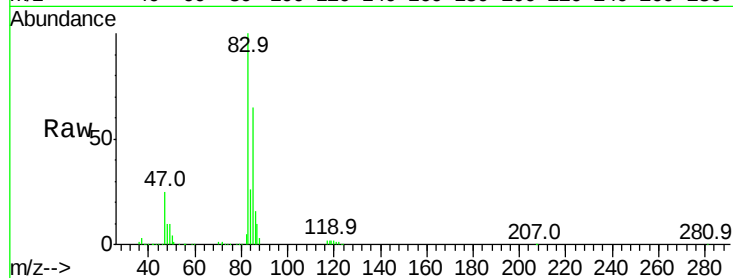
VSTD02589

Tgt Ion: 83 Resp: 312652

Ion Ratio Lower Upper

83 100

85 65.7 46.3 85.9



#27

1,2-Dichloroethane

Concen: 21.145 ug/L

RT: 8.41 min Scan# 1119

Delta R.T. 0.01 min

Lab File: VW005043.D

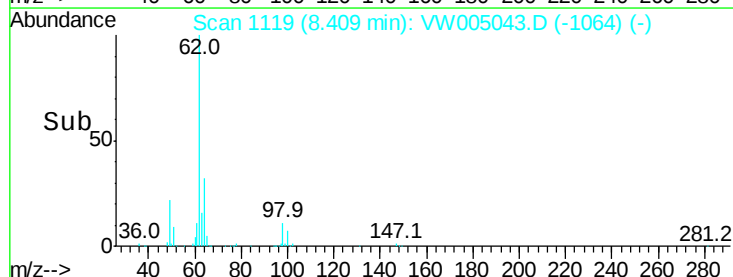
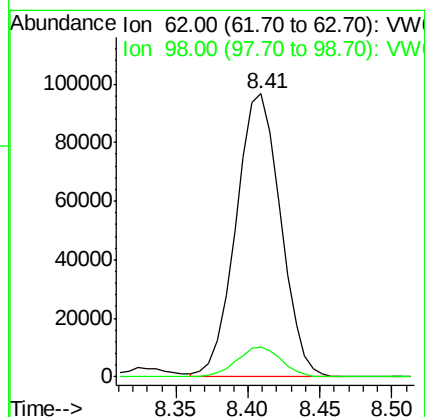
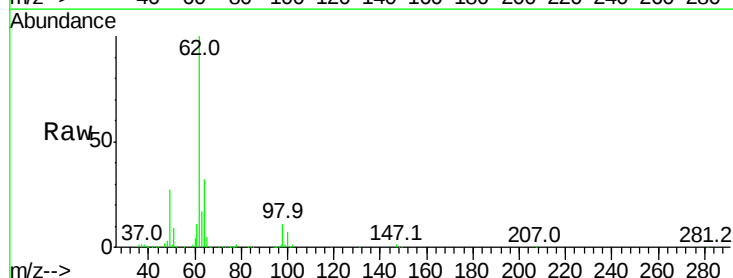
Acq: 31 Aug 2018 14:47

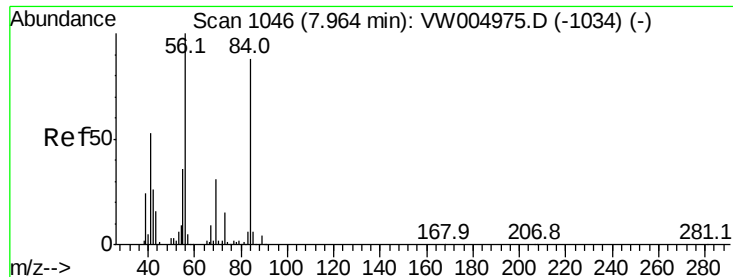
Tgt Ion: 62 Resp: 208406

Ion Ratio Lower Upper

62 100

98 10.5 8.0 12.0





#30

Cyclohexane

Concen: 19.460 ug/L

RT: 7.96 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02589

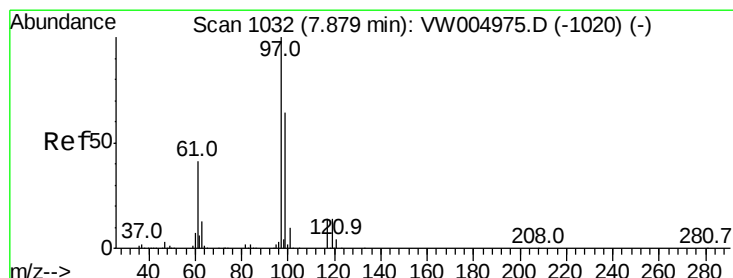
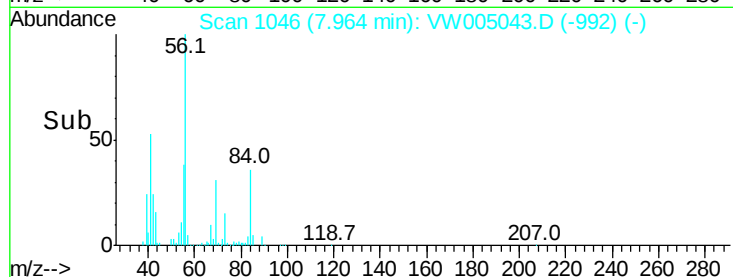
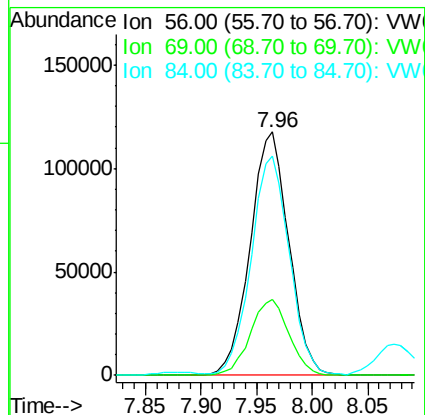
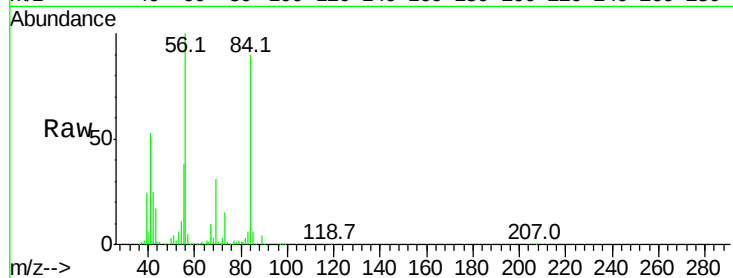
Tgt Ion: 56 Resp: 284523

Ion Ratio Lower Upper

56 100

69 31.3 24.1 36.1

84 89.2 67.7 101.5



#31

1,1,1-Trichloroethane

Concen: 20.897 ug/L

RT: 7.88 min Scan# 1032

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

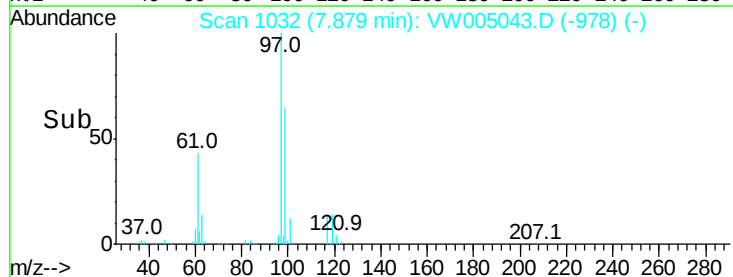
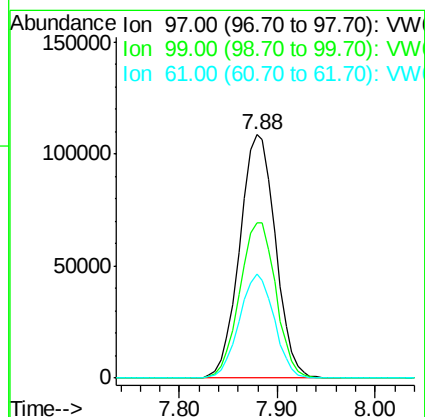
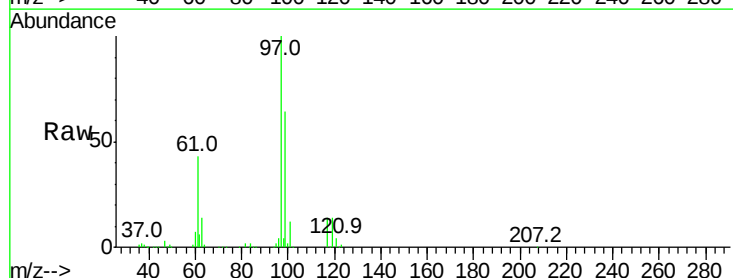
Tgt Ion: 97 Resp: 276444

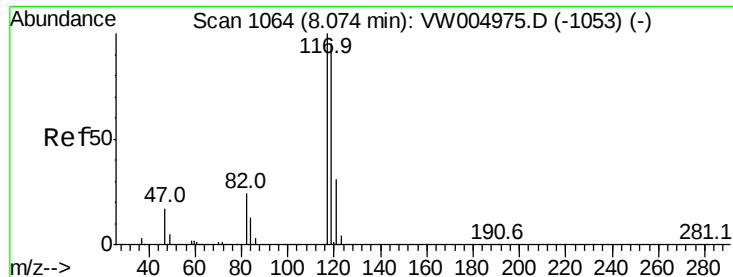
Ion Ratio Lower Upper

97 100

99 64.3 51.2 76.8

61 41.7 34.9 52.3





#32

Carbon tetrachloride

Concen: 20.914 ug/L

RT: 8.07 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

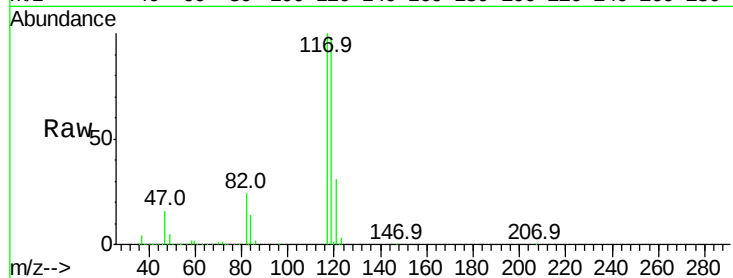
VSTD02589

Tgt Ion:117 Resp: 247465

Ion Ratio Lower Upper

117 100

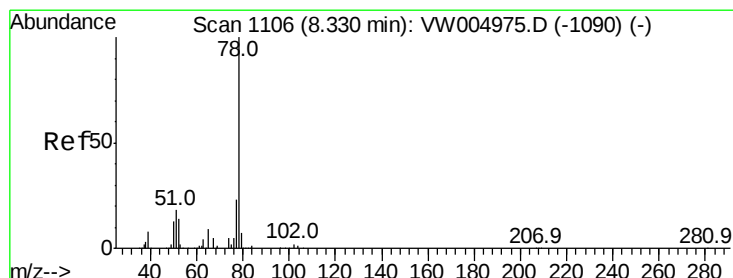
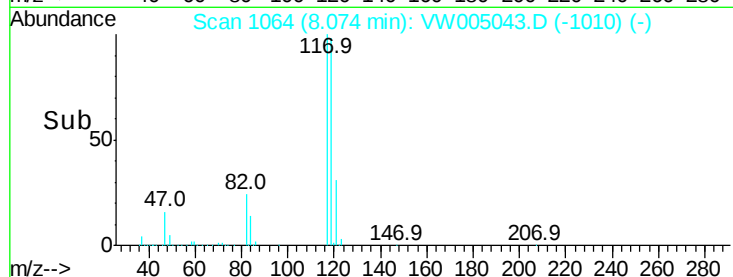
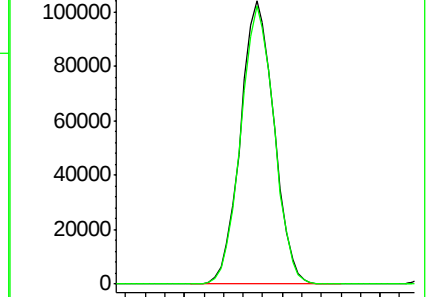
119 97.6 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07



#34

Benzene

Concen: 19.983 ug/L

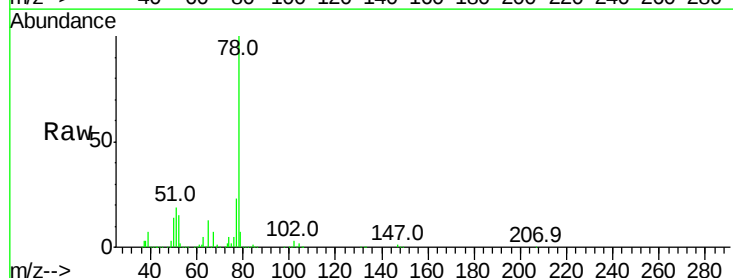
RT: 8.33 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VW005043.D

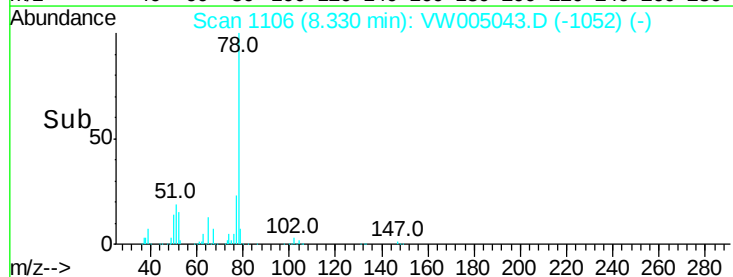
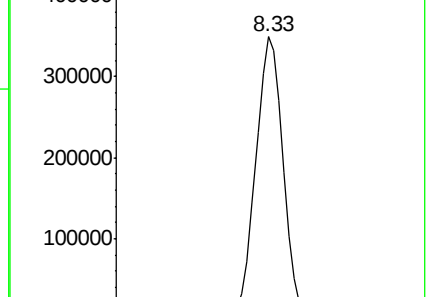
Acq: 31 Aug 2018 14:47

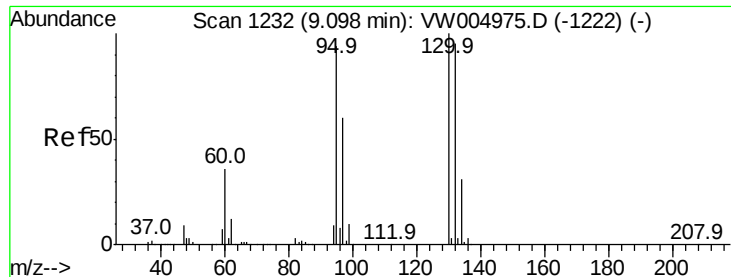
Tgt Ion: 78 Resp: 782561



Abundance Ion 78.00 (77.70 to 78.70): VW

8.33

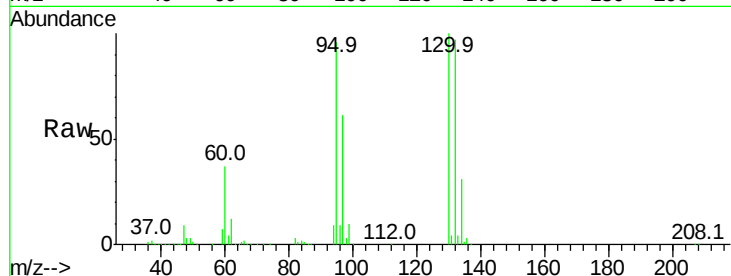




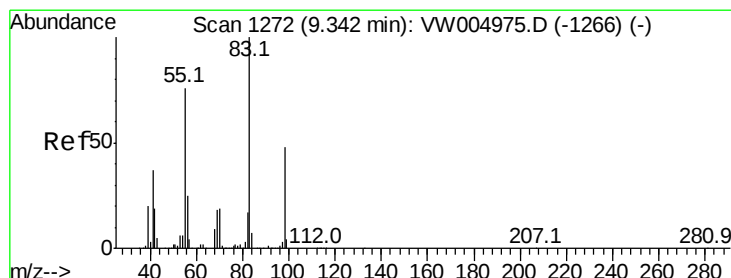
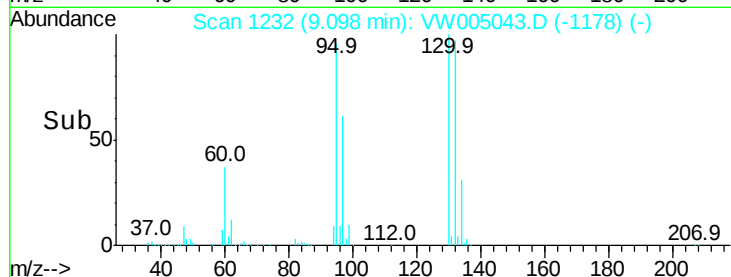
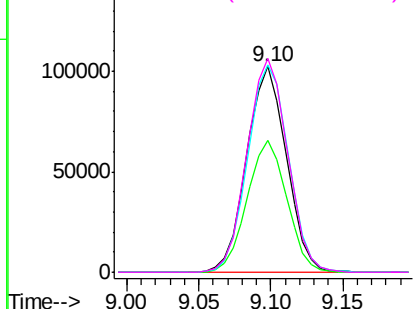
#35  
 Trichloroethene  
 Concen: 20.057 ug/L  
 RT: 9.10 min Scan# 1232  
 Delta R.T. -0.00 min  
 Lab File: VW005043.D  
 Acq: 31 Aug 2018 14:47

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02589

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 195317 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.2  | 45.9  | 85.3   |
| 132      | 103.3 | 69.2  | 128.4  |
| 130      | 105.7 | 72.7  | 135.1  |

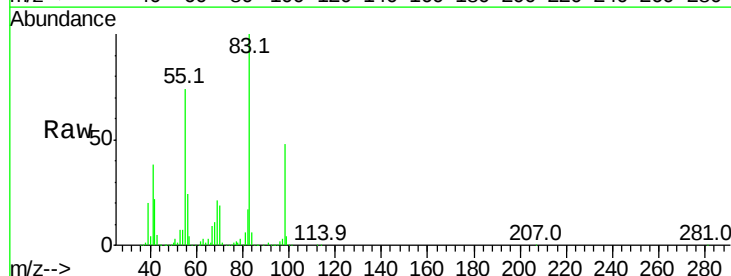


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

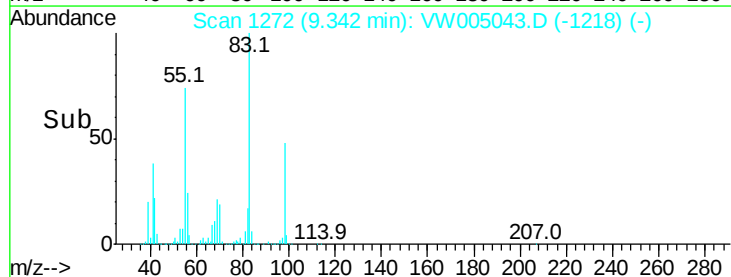
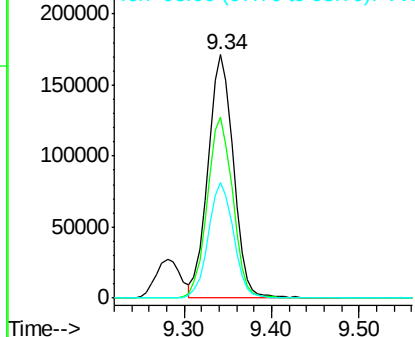


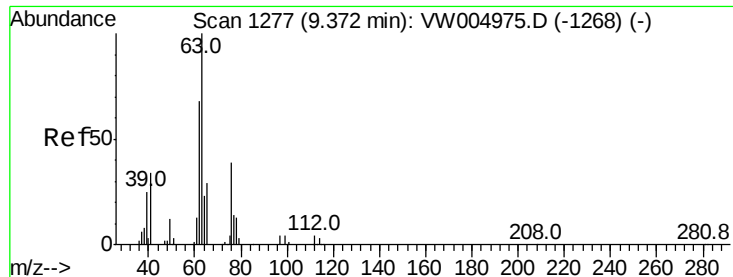
#36  
 Methylcyclohexane  
 Concen: 19.209 ug/L  
 RT: 9.34 min Scan# 1272  
 Delta R.T. -0.00 min  
 Lab File: VW005043.D  
 Acq: 31 Aug 2018 14:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 345988 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 74.4  | 61.1  | 91.7   |
| 98       | 46.8  | 37.0  | 55.4   |



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





#40

1,2-Dichloropropane

Concen: 19.986 ug/L

RT: 9.38 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampled :

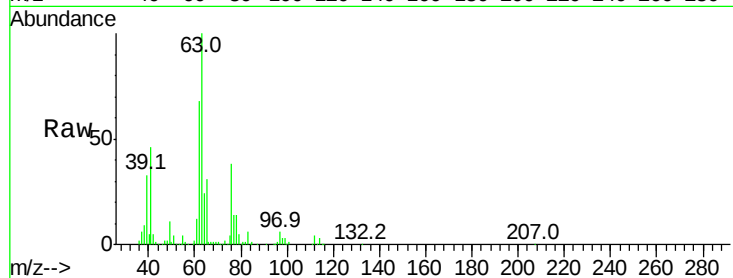
VSTD02589

Tgt Ion: 63 Resp: 192536

Ion Ratio Lower Upper

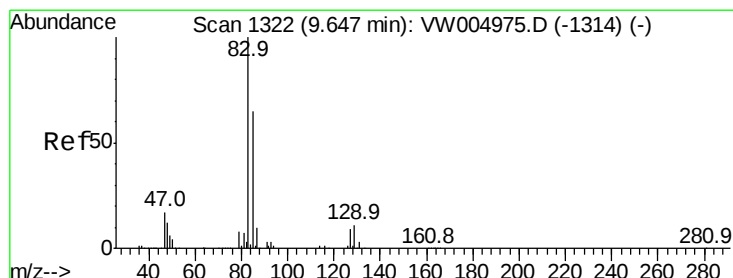
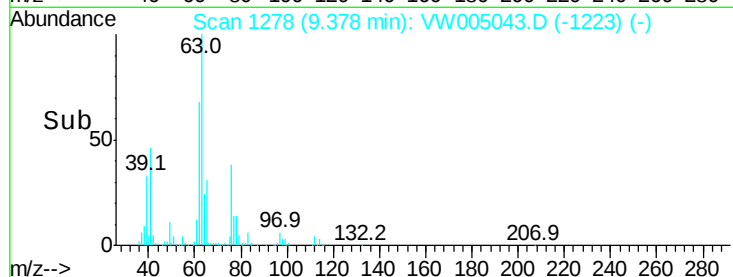
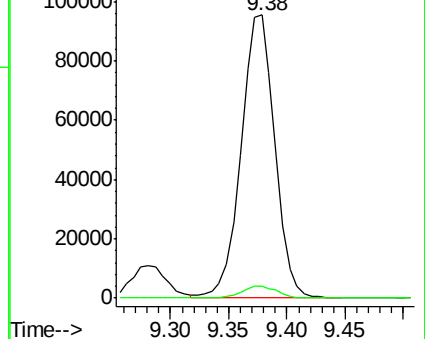
63 100

112 4.5 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 21.600 ug/L

RT: 9.65 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

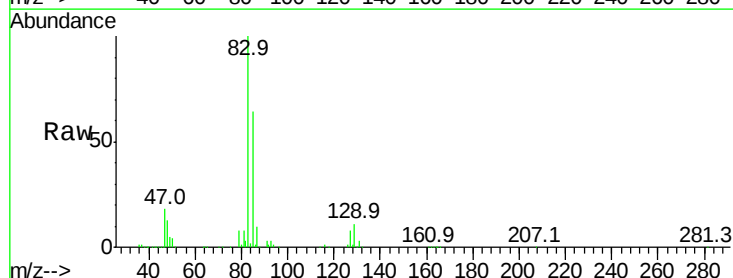
Tgt Ion: 83 Resp: 229277

Ion Ratio Lower Upper

83 100

85 63.7 43.6 81.0

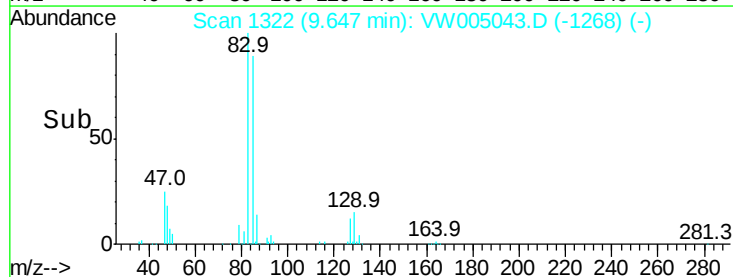
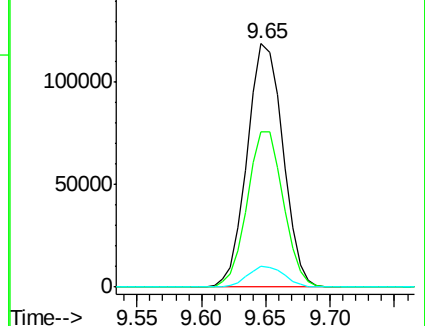
127 8.5 7.0 10.6

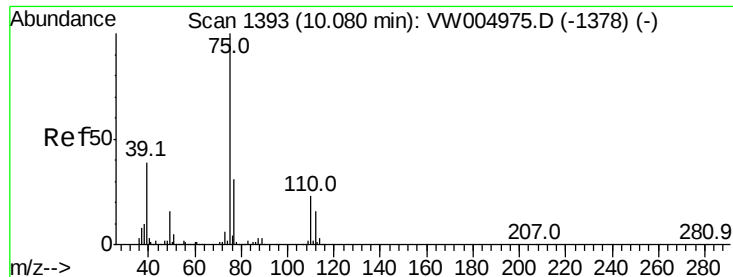


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 21.072 ug/L

RT: 10.08 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

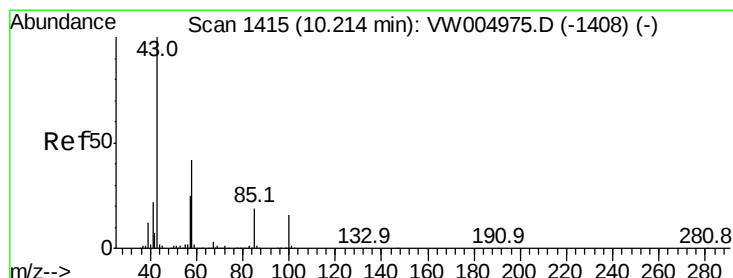
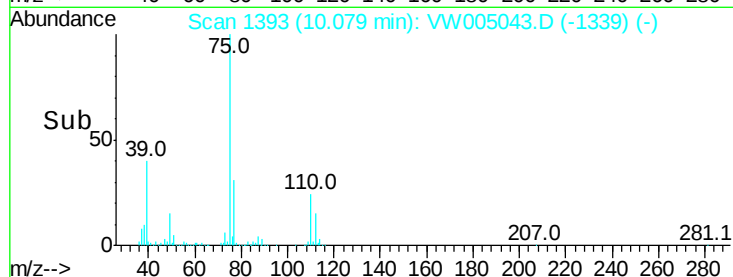
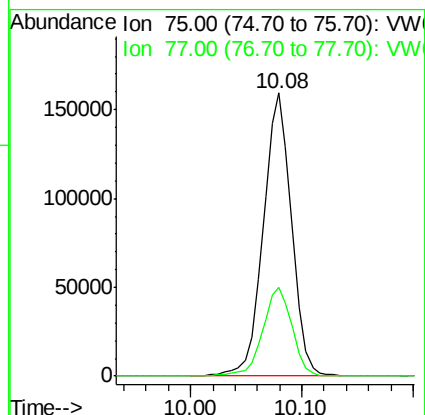
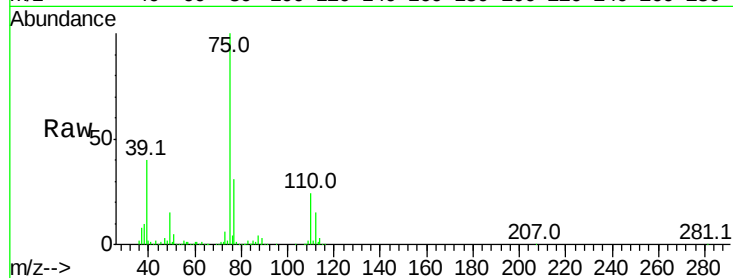
VSTD02589

Tgt Ion: 75 Resp: 281777

Ion Ratio Lower Upper

75 100

77 31.3 22.4 41.6



#43

4-Methyl-2-pentanone

Concen: 41.017 ug/L

RT: 10.21 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

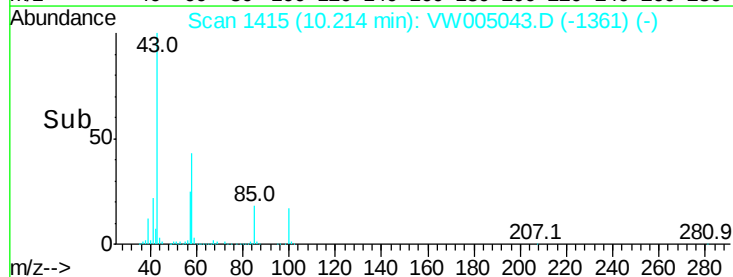
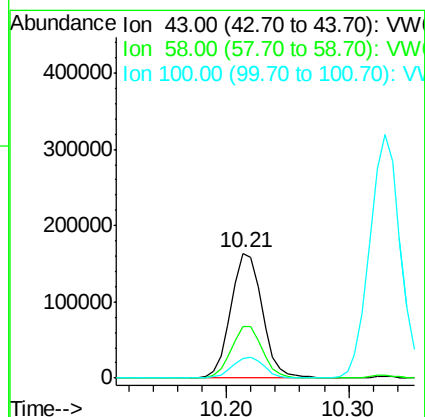
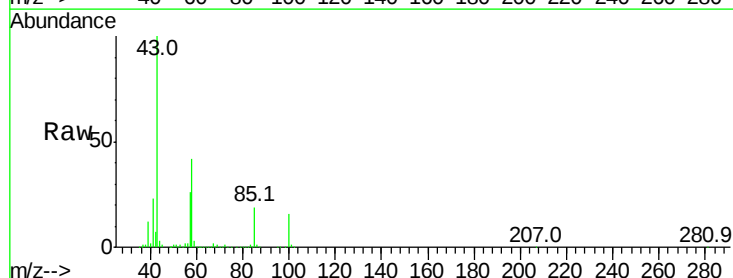
Tgt Ion: 43 Resp: 291687

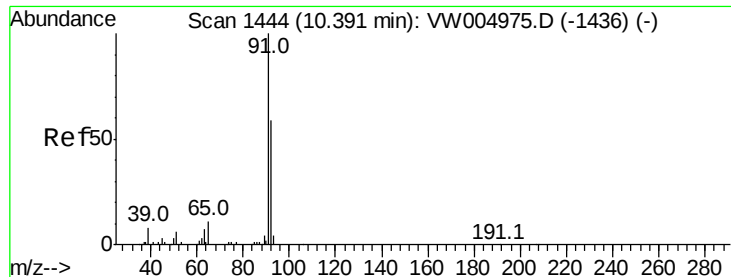
Ion Ratio Lower Upper

43 100

58 41.7 32.1 48.1

100 16.8 12.6 18.8





#44

Toluene

Concen: 19.938 ug/L

RT: 10.40 min Scan# 1445

Delta R.T. -0.00 min

Lab File: VW005043.D

Acq: 31 Aug 2018 14:47

Instrument :

MSVOA\_W

ClientSampleId :

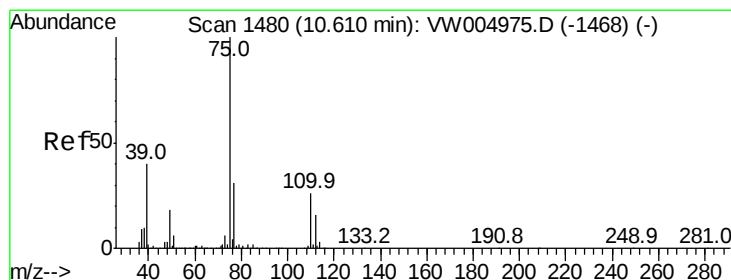
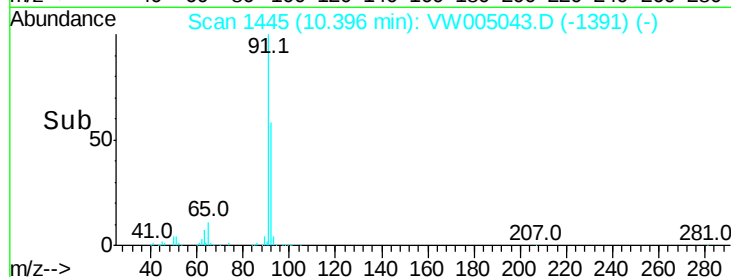
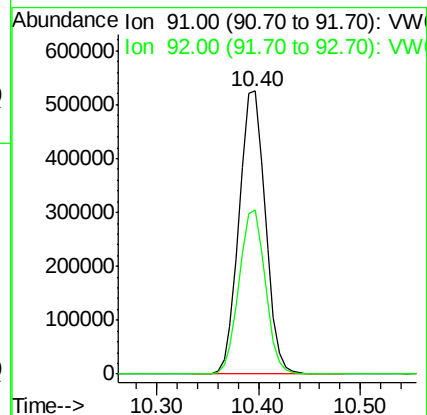
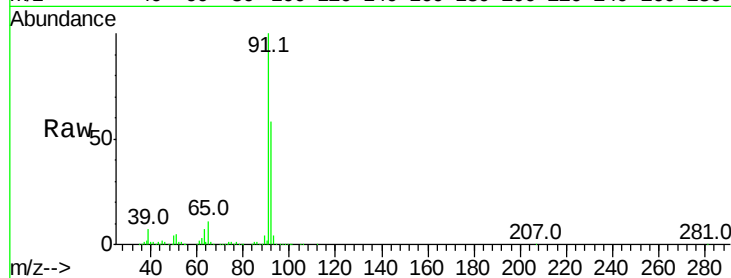
VSTD02589

Tgt Ion: 91 Resp: 937690

Ion Ratio Lower Upper

91 100

92 58.2 40.6 75.4



#45

trans-1,3-Dichloropropene

Concen: 20.720 ug/L

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW005043.D

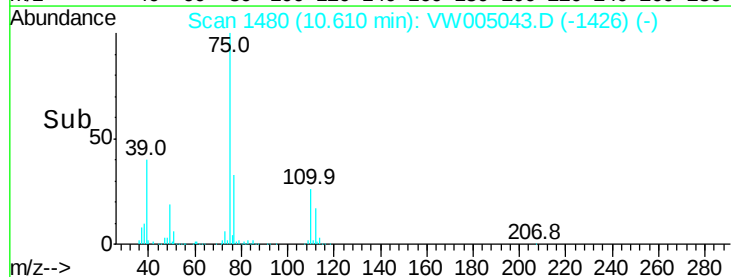
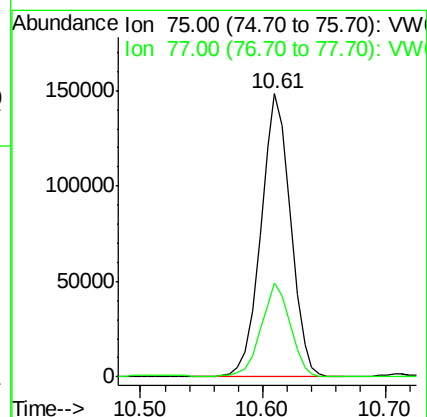
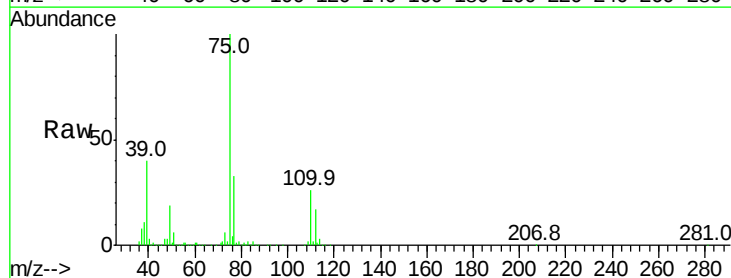
Acq: 31 Aug 2018 14:47

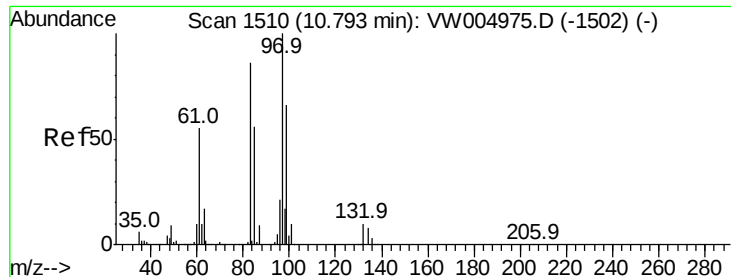
Tgt Ion: 75 Resp: 251299

Ion Ratio Lower Upper

75 100

77 33.1 22.2 41.2

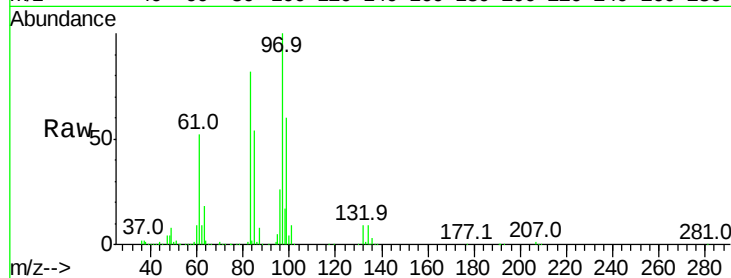




#46  
 1,1,2-Trichloroethane  
 Concen: 21.135 ug/L  
 RT: 10.79 min Scan# 1510  
 Delta R.T. -0.00 min  
 Lab File: VW005043.D  
 Acq: 31 Aug 2018 14:47

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02589

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 158921 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 81.9  | 59.6  | 110.8  |
| 85       | 54.0  | 38.1  | 70.9   |
| 99       | 60.0  | 43.8  | 81.3   |

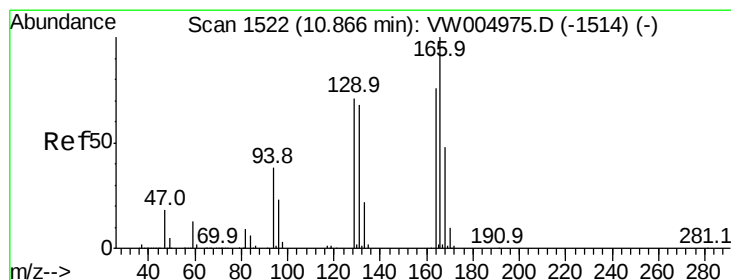
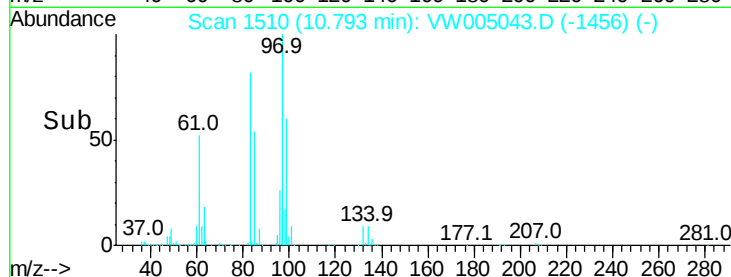
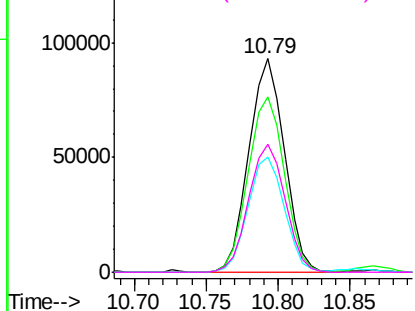


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

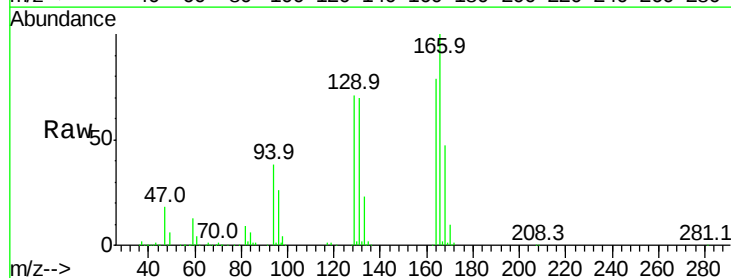
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47  
 Tetrachloroethene  
 Concen: 19.987 ug/L  
 RT: 10.87 min Scan# 1522  
 Delta R.T. -0.00 min  
 Lab File: VW005043.D  
 Acq: 31 Aug 2018 14:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 190549 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 89.4  | 66.8  | 124.0  |
| 131      | 88.5  | 64.0  | 119.0  |
| 166      | 126.7 | 89.8  | 166.8  |

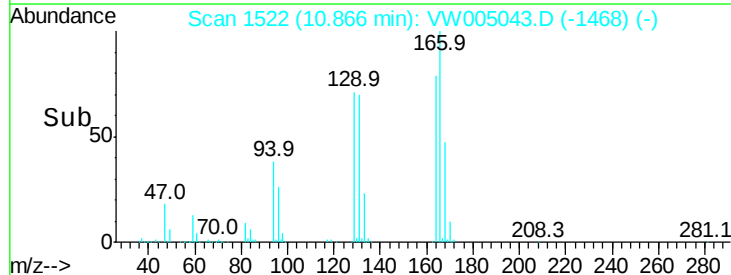
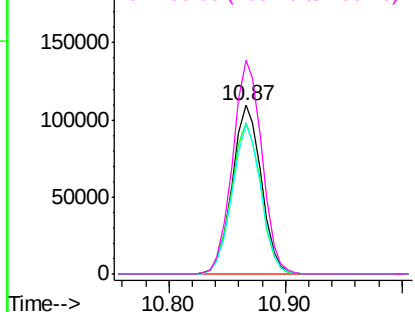


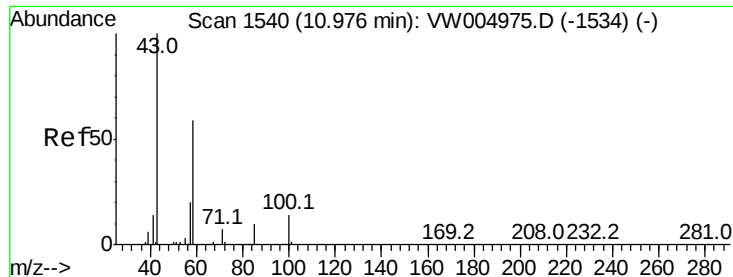
Abundance Ion 164.00 (163.70 to 164.70): V

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

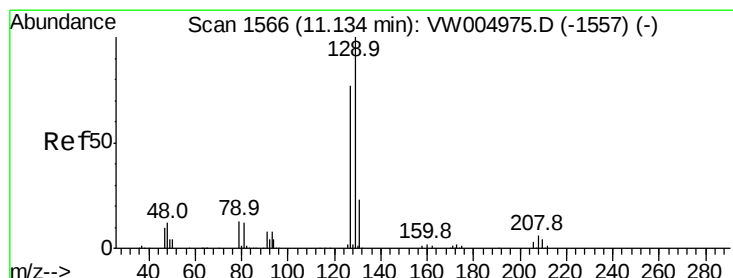
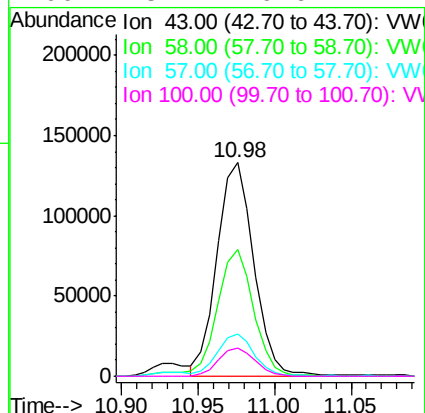
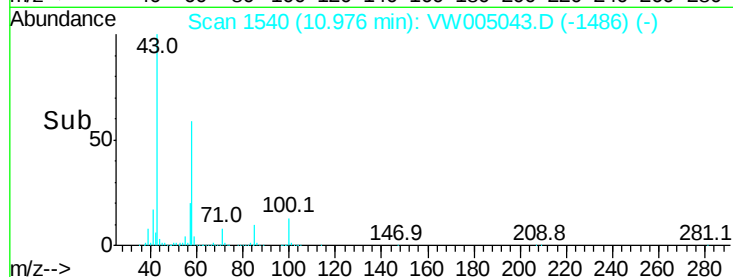
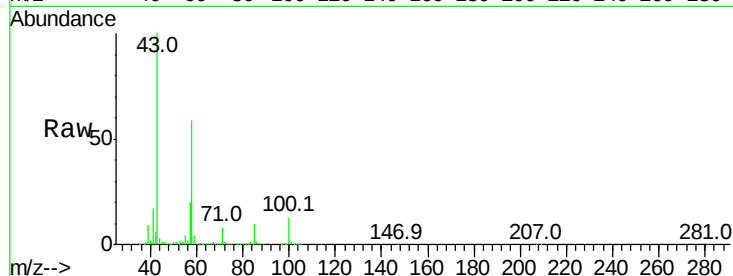




#49  
2-Hexanone  
Concen: 40.470 ug/L  
RT: 10.98 min Scan# 1540  
Delta R.T. -0.00 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

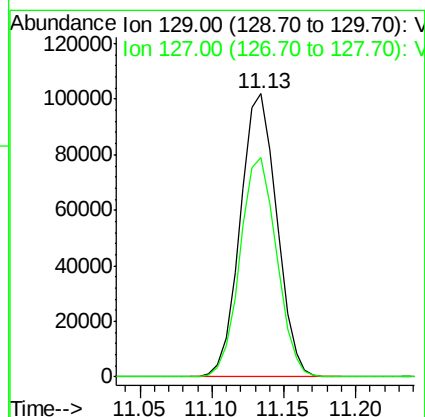
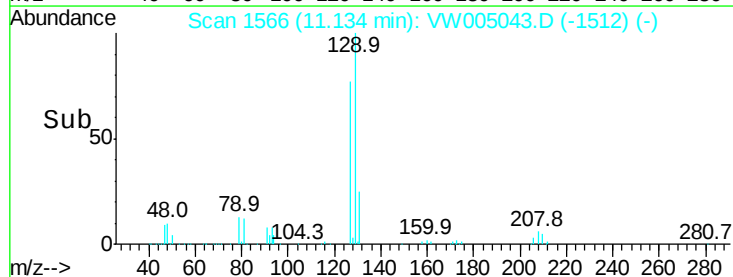
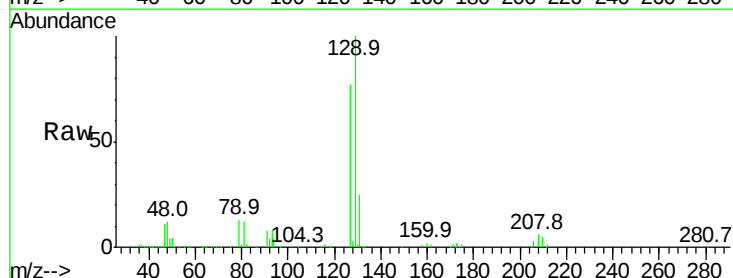
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02589

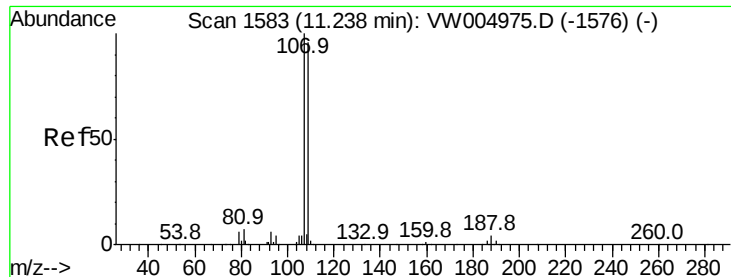
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 222404 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 57.3  | 44.6  | 67.0   |
| 57       | 19.9  | 15.4  | 23.2   |
| 100      | 13.4  | 9.6   | 14.4   |



#50  
Dibromochloromethane  
Concen: 21.539 ug/L  
RT: 11.13 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 179803 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.3  | 53.8  | 99.8   |

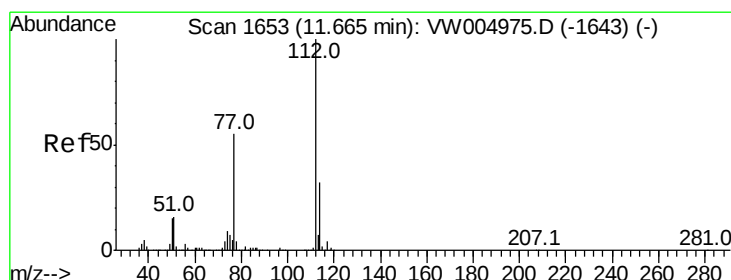
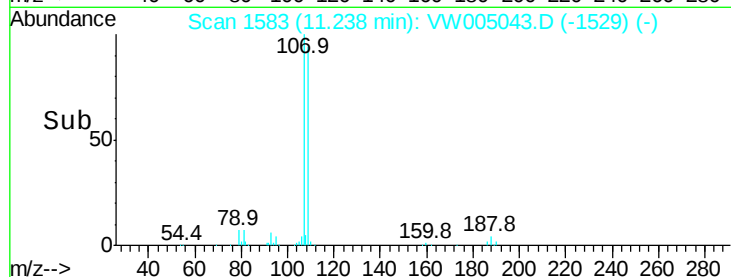
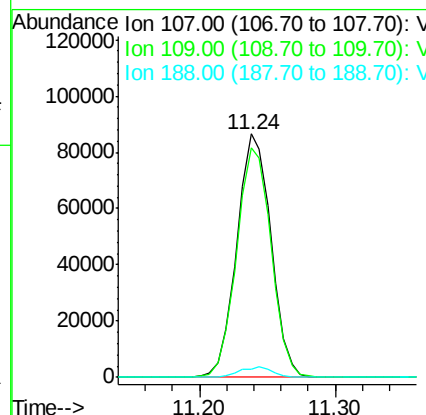
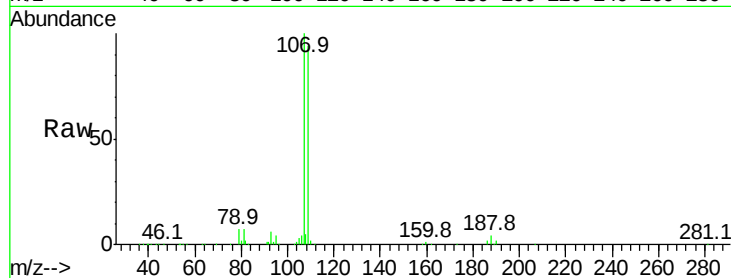




#51  
1,2-Dibromoethane  
Concen: 20.500 ug/L  
RT: 11.24 min Scan# 1583  
Delta R.T. -0.00 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02589

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.2  | 67.3  | 124.9 |
| 188     | 3.5   | 3.0   | 4.6   |



#52  
Chlorobenzene  
Concen: 19.685 ug/L  
RT: 11.66 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VW005043.D  
Acq: 31 Aug 2018 14:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 55.6  | 45.8  | 68.8  |
| 114     | 31.8  | 22.5  | 41.7  |

