

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092120\  
 Data File : VV018360.D  
 Acq On : 21 Sep 2020 10:39  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05081

Quant Time: Sep 22 04:30:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 21 14:56:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 280150   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 279564   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 155238   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 98621    | 43.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.40% |
| 7) Chloroethane-d5             | 1.58    | 69    | 81476    | 43.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.22% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 192982   | 46.08    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.16% |
| 21) 2-Butanone-d5              | 3.91    | 46    | 124598   | 89.16    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.16% |
| 24) Chloroform-d               | 4.37    | 84    | 181690   | 45.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.74% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 116743   | 45.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.96% |
| 32) Benzene-d6                 | 5.07    | 84    | 362412   | 45.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.56% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 113157   | 44.50    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.00% |
| 41) Toluene-d8                 | 7.34    | 98    | 334944   | 45.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.84% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 59409    | 45.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.94% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 89232    | 92.64    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.64% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 148544   | 46.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.08% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 140286   | 44.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.00% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 99778  | 48.843  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 108465 | 48.625  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 111846 | 48.896  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 71337  | 51.024  | ug/L 98  |
| 8) Chloroethane                | 1.60 | 64  | 70996  | 49.547  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 159678 | 50.736  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 97958  | 51.817  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 91503  | 49.745  | ug/L 99  |
| 13) Acetone                    | 2.19 | 43  | 139217 | 124.411 | ug/L 97  |
| 14) Carbon disulfide           | 2.31 | 76  | 271827 | 48.294  | ug/L 100 |
| 15) Methyl Acetate             | 2.44 | 43  | 99195  | 49.326  | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 102681 | 49.773  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 94836  | 50.027  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 296976 | 50.643  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 179476 | 50.074  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 102236 | 50.450  | ug/L 95  |
| 22) 2-Butanone                 | 3.99 | 43  | 157819 | 119.102 | ug/L 99  |

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 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 21 14:56:16 2020  
 Response via : Initial Calibration

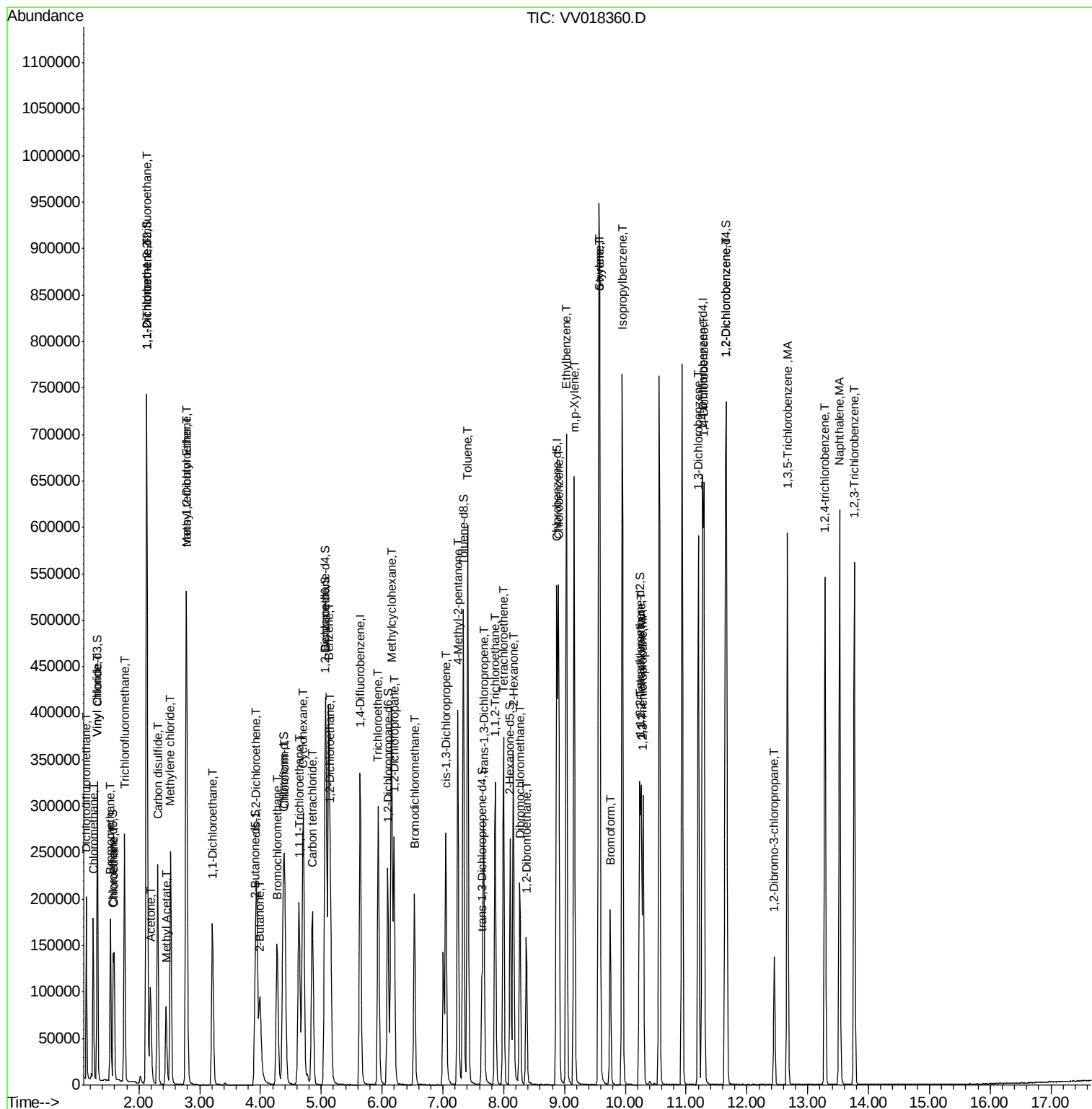
| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 54159    | 51.081  | uq/L  | 97       |
| 25) Chloroform                  | 4.40  | 83   | 182081   | 49.976  | uq/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 143601   | 50.913  | uq/L  | 98       |
| 29) Cyclohexane                 | 4.70  | 56   | 162192   | 50.242  | uq/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 160211   | 49.380  | uq/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 141866   | 49.728  | uq/L  | 98       |
| 33) Benzene                     | 5.12  | 78   | 397765   | 49.764  | uq/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 104322   | 47.911  | uq/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 166971   | 50.930  | uq/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 106665   | 50.360  | uq/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 138233   | 50.151  | uq/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 163651   | 50.147  | uq/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 259464   | 100.976 | uq/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 428948   | 50.710  | uq/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 161335   | 50.775  | uq/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 99009    | 50.433  | uq/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 85546    | 50.108  | uq/L  | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 219786   | 108.494 | uq/L  | 100      |
| 49) Dibromochloromethane        | 8.27  | 129  | 110593   | 50.187  | uq/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 103317   | 50.005  | uq/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 275313   | 50.117  | uq/L  | 100      |
| 52) Ethylbenzene                | 9.03  | 91   | 471963   | 51.106  | uq/L  | 100      |
| 53) m,p-Xylene                  | 9.16  | 106  | 178809   | 51.874  | uq/L  | 97       |
| 54) o-xylene                    | 9.56  | 106  | 172347   | 51.899  | uq/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 306987   | 53.186  | uq/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 467579   | 52.245  | uq/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 150065   | 51.675  | uq/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 125706   | 50.459  | uq/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 82831    | 49.668  | uq/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 232965   | 50.468  | uq/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 238401   | 50.245  | uq/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 230035   | 49.302  | uq/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 34182    | 51.915  | uq/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 183022   | 50.293  | uq/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 167385   | 51.652  | uq/L  | 100      |
| 69) Naphthalene                 | 13.52 | 128  | 465259   | 56.740  | uq/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 170164   | 53.313  | uq/L  | 100      |

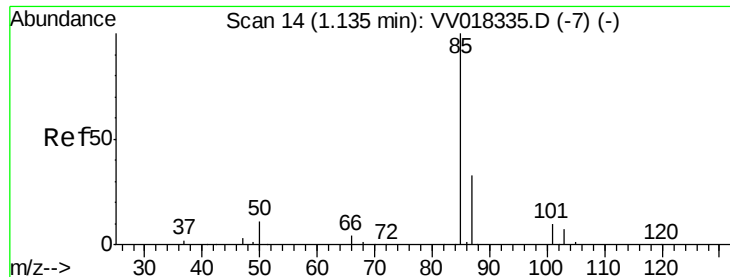
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_V  
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Quant Title : VOC Analysis  
QLast Update : Mon Sep 21 14:56:16 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 48.843 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

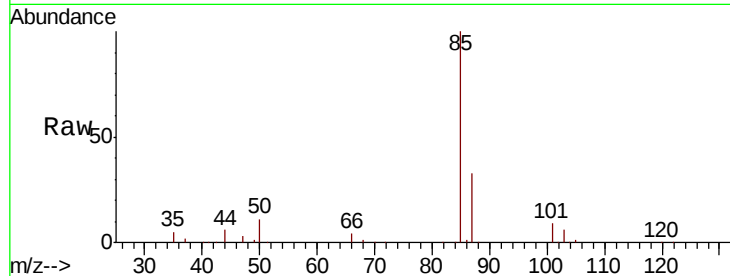
VSTD05081

Tot Ion: 85 Resp: 99778

Ion Ratio Lower Upper

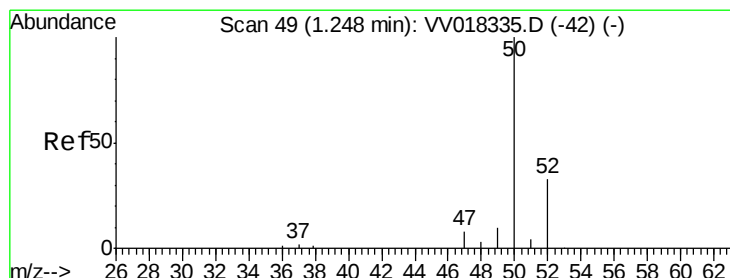
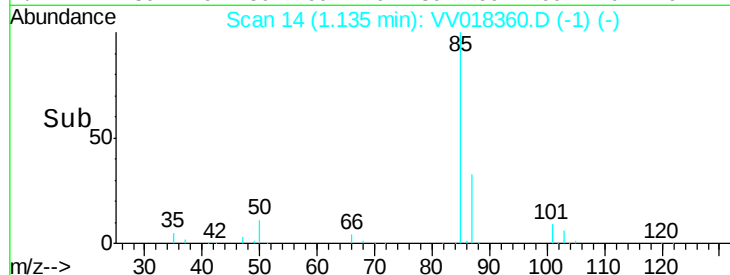
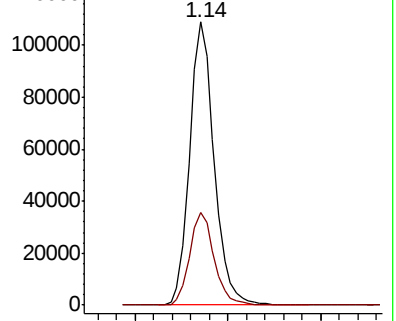
85 100

87 32.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 48.625 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV018360.D

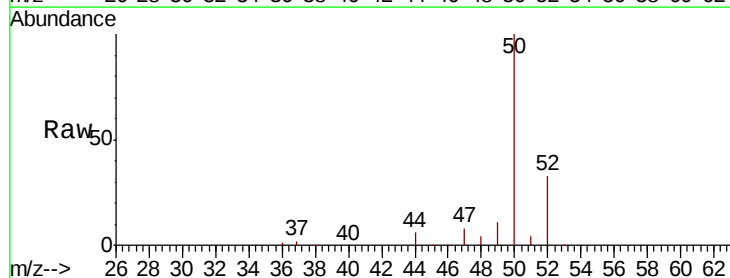
Acq: 21 Sep 2020 10:39

Tgt Ion: 50 Resp: 108465

Ion Ratio Lower Upper

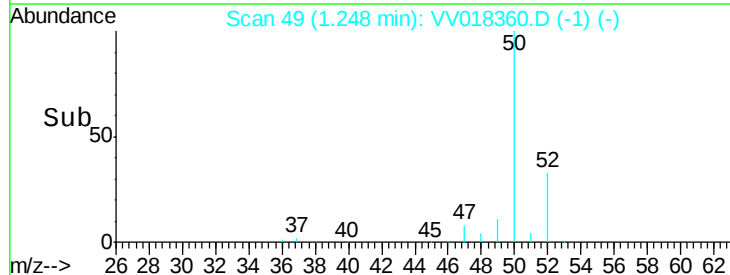
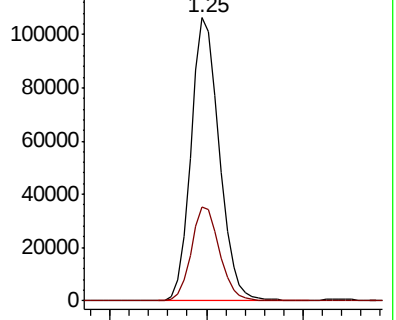
50 100

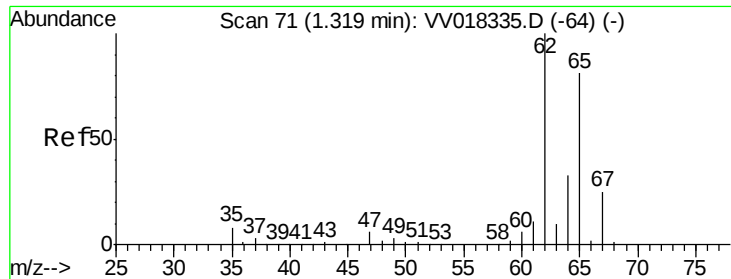
52 33.2 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 48.896 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

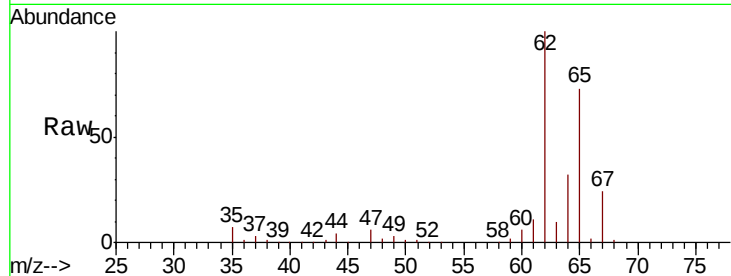
VSTD05081

Tot Ion: 62 Resp: 111846

Ion Ratio Lower Upper

62 100

64 32.5 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

120000

100000

80000

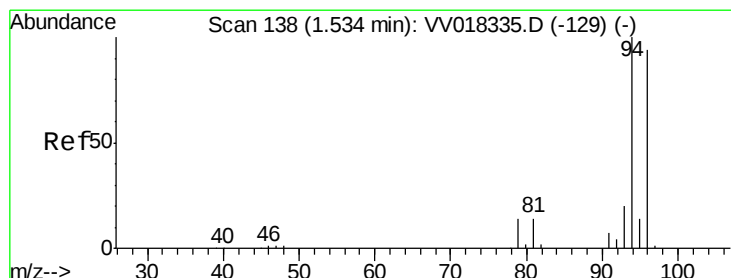
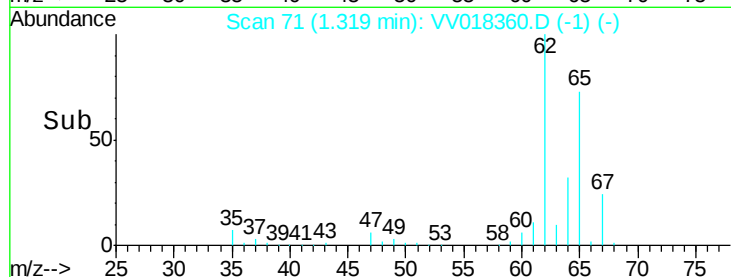
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 51.024 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV018360.D

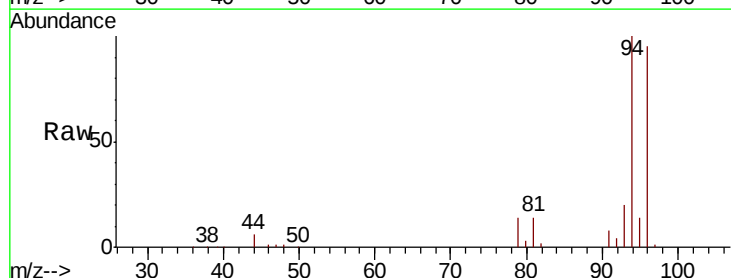
Acq: 21 Sep 2020 10:39

Tgt Ion: 94 Resp: 71337

Ion Ratio Lower Upper

94 100

96 94.7 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

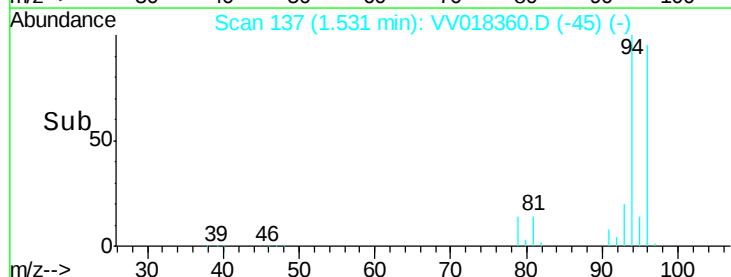
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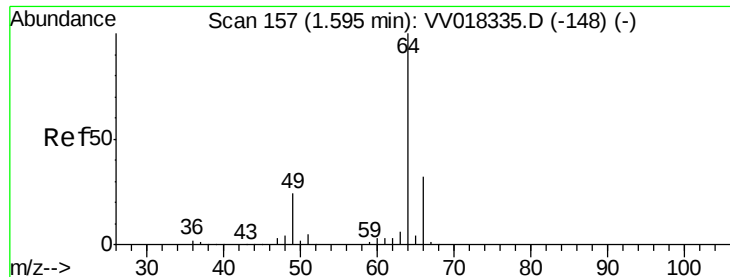
40000

20000

0

Time-->





#8

Chloroethane

Concen: 49.547 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

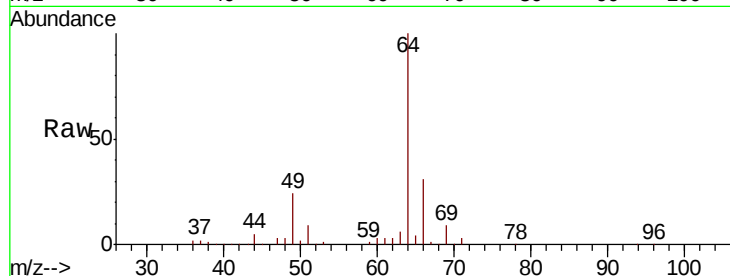
VSTD05081

Tot Ion: 64 Resp: 70996

Ion Ratio Lower Upper

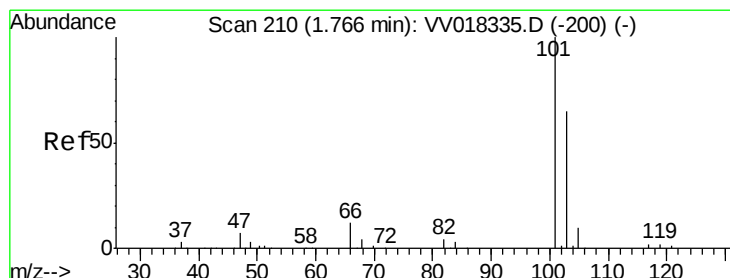
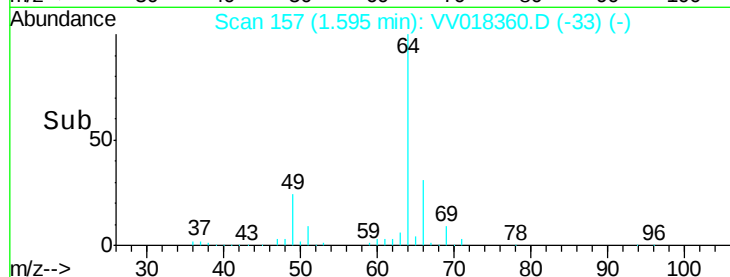
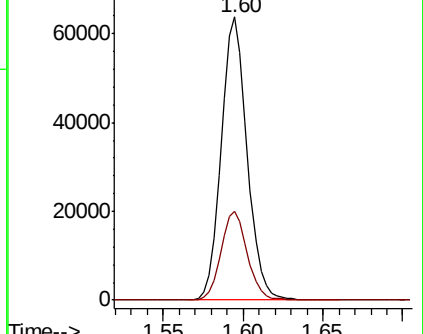
64 100

66 31.4 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VV018335.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV018335.D (-148) (-)



#9

Trichlorofluoromethane

Concen: 50.736 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV018360.D

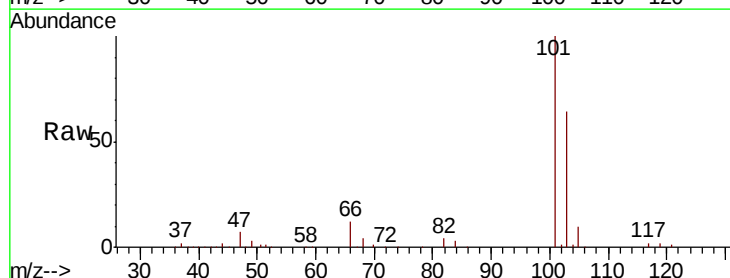
Acq: 21 Sep 2020 10:39

Tgt Ion:101 Resp: 159678

Ion Ratio Lower Upper

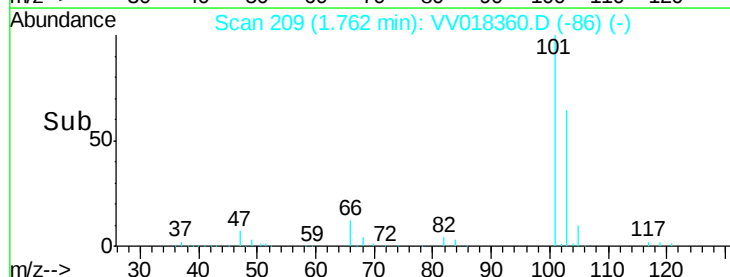
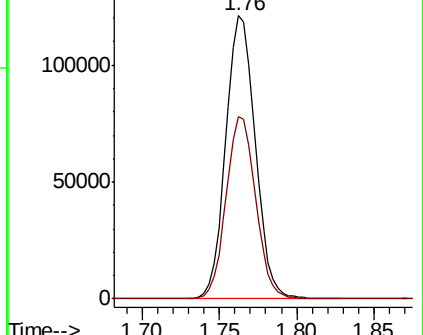
101 100

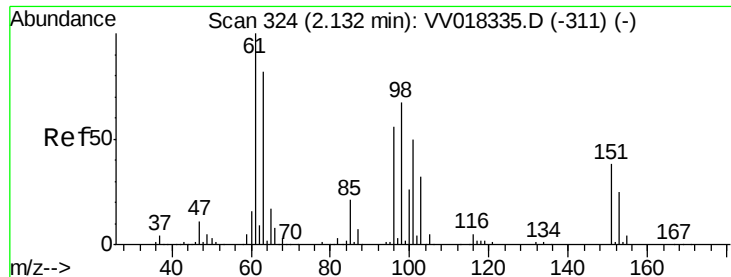
103 64.4 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV018335.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV018335.D (-200) (-)





#10

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

Concen: 51.817 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

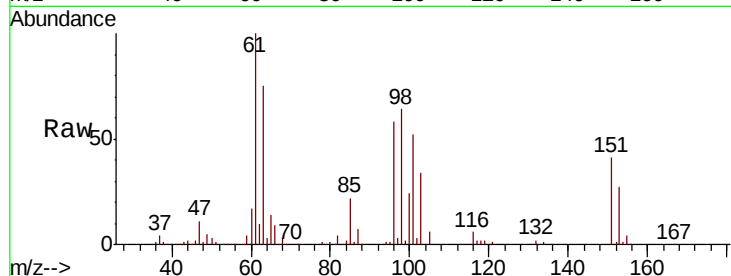
MSVOA\_V

ClientSampleId :

VSTD05081

Tot Ion:101 Resp: 97958

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 101 | 100   |       |       |
| 85  | 42.3  | 33.5  | 50.3  |
| 151 | 77.5  | 62.2  | 93.2  |

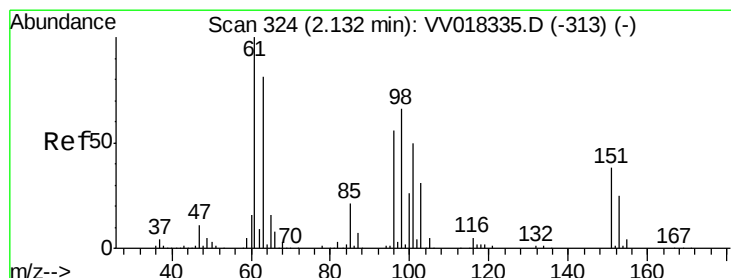
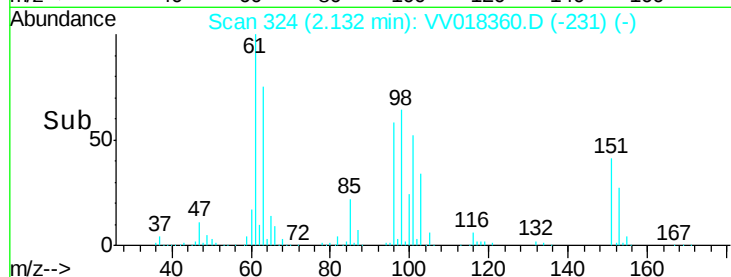
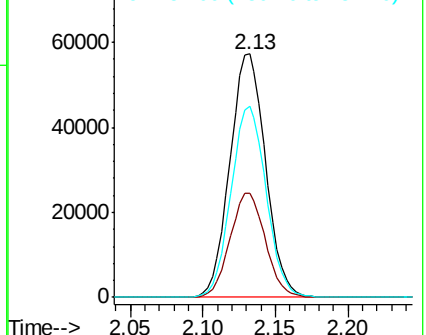


Abundance

Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.745 ug/L

RT: 2.13 min Scan# 324

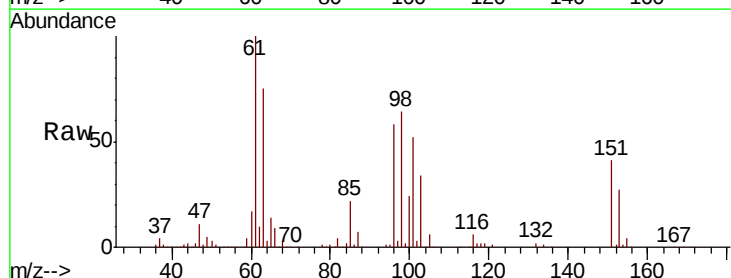
Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Tgt Ion: 96 Resp: 91503

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 173.6 | 122.9 | 228.3 |
| 63  | 130.8 | 91.9  | 170.7 |

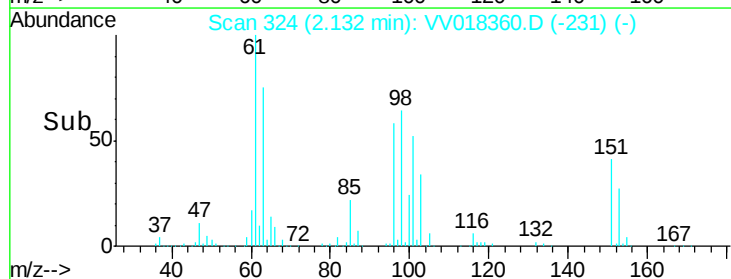
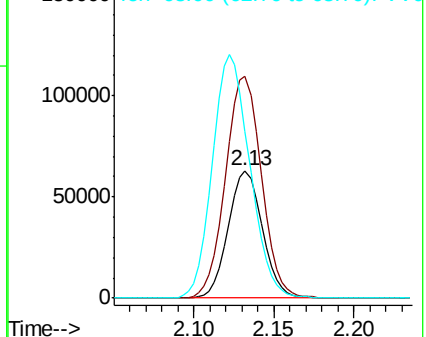


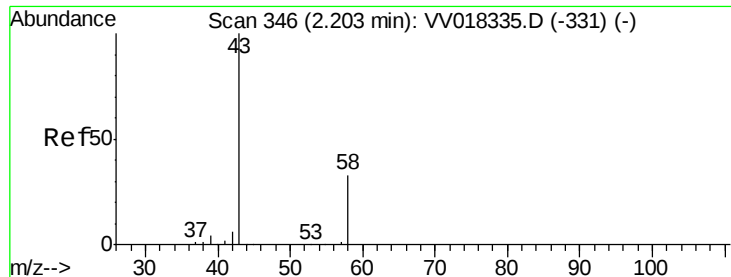
Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 124.411 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

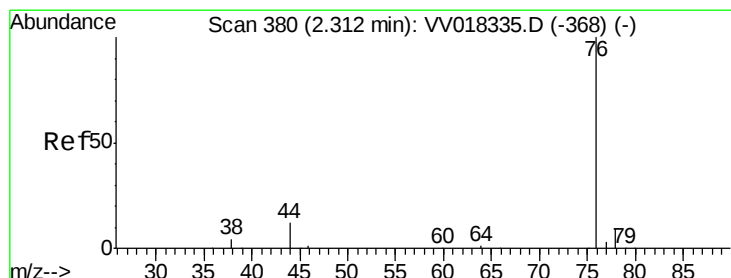
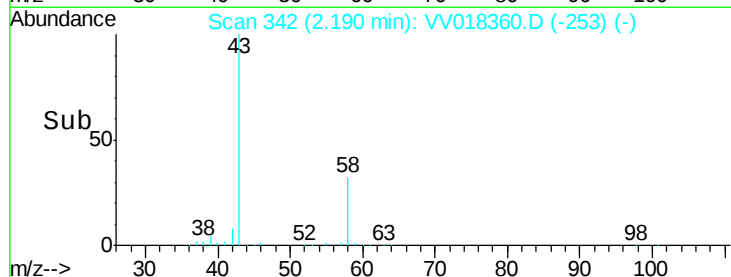
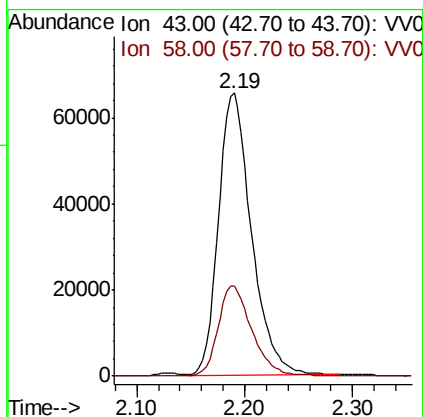
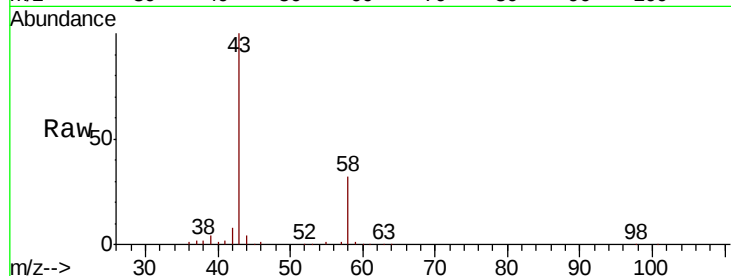
VSTD05081

Tot Ion: 43 Resp: 139217

Ion Ratio Lower Upper

43 100

58 32.2 0.0 67.4



#14

Carbon disulfide

Concen: 48.294 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV018360.D

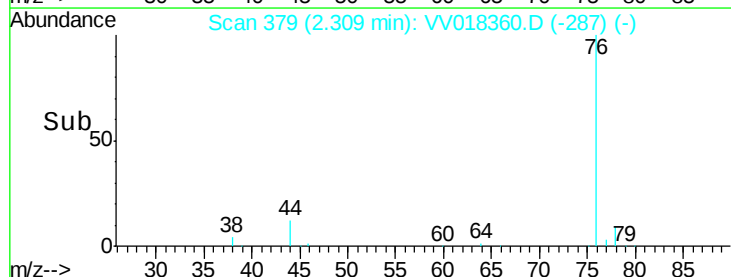
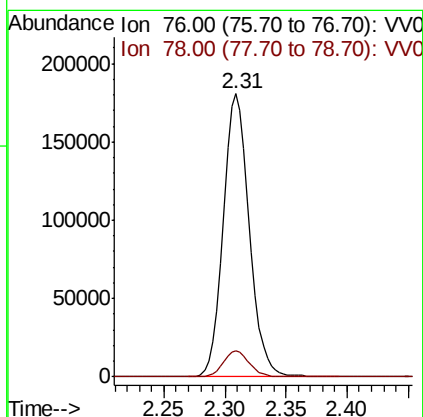
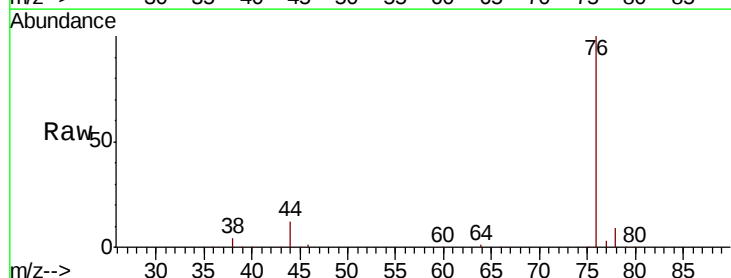
Acq: 21 Sep 2020 10:39

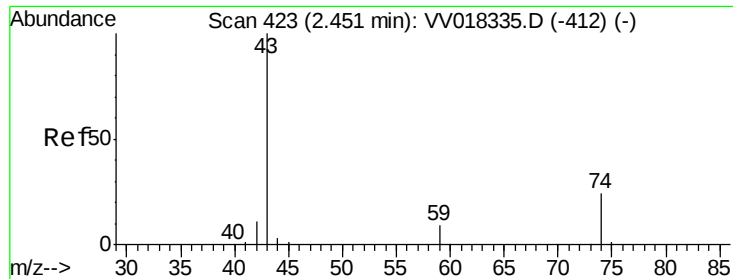
Tgt Ion: 76 Resp: 271827

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9

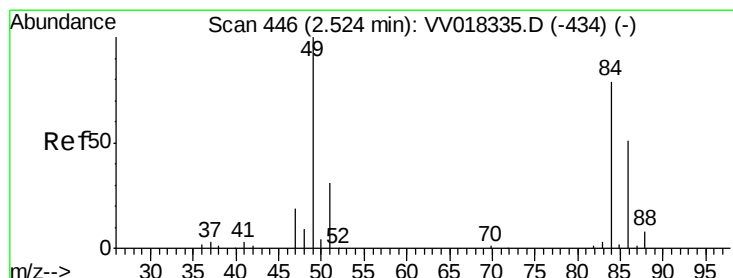
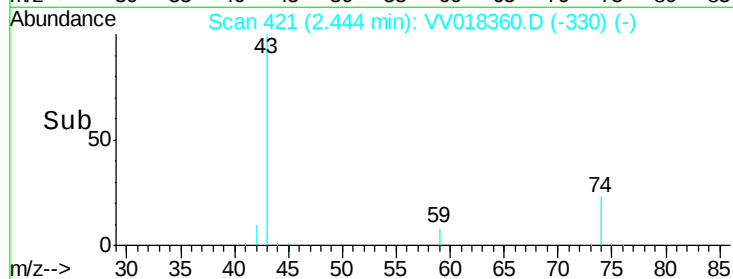
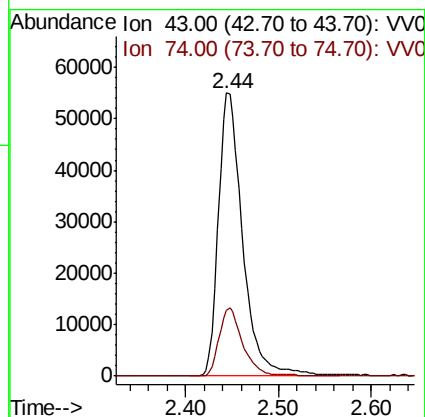
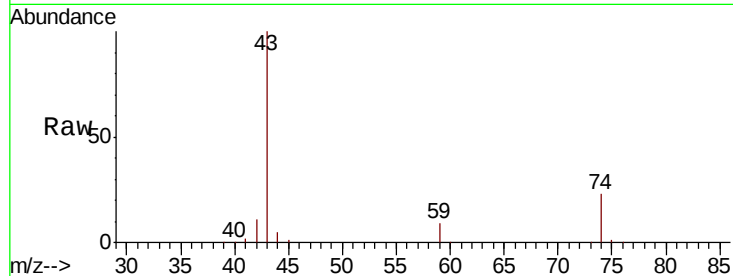




#15  
Methvl Acetate  
Concen: 49.326 ug/L  
RT: 2.44 min Scan# 421  
Delta R.T. -0.01 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

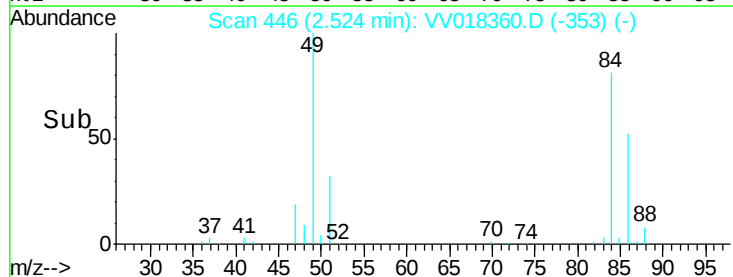
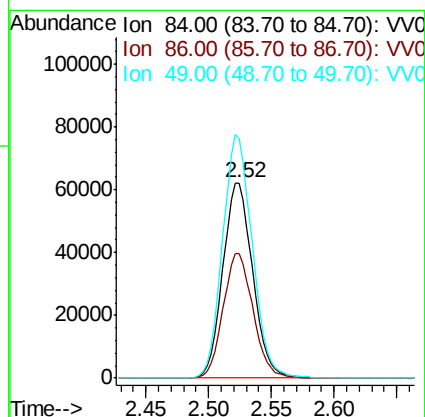
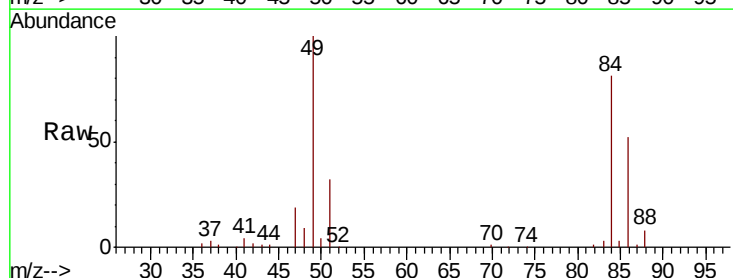
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD05081

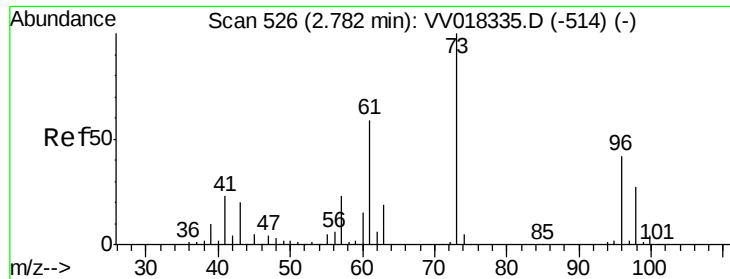
Tot Ion: 43 Resp: 99195  
Ion Ratio Lower Upper  
43 100  
74 23.4 18.4 27.6



#16  
Methylene chloride  
Concen: 49.773 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

Tgt Ion: 84 Resp: 102681  
Ion Ratio Lower Upper  
84 100  
86 63.5 44.4 82.4  
49 123.0 87.2 162.0

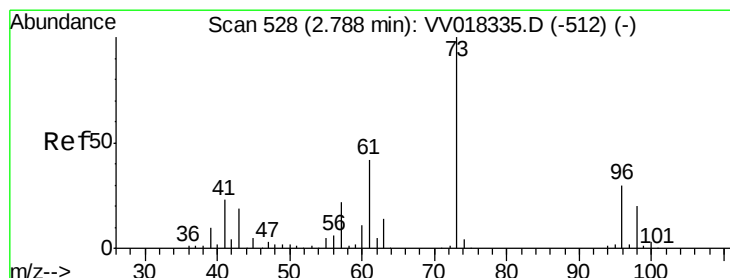
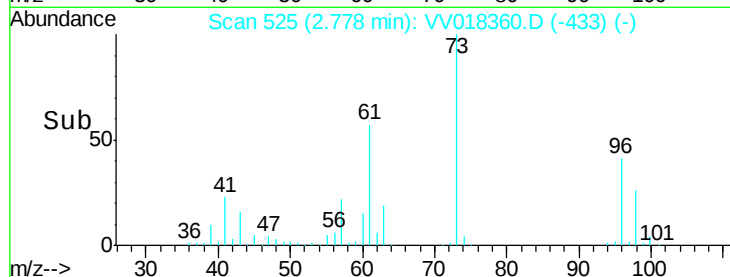
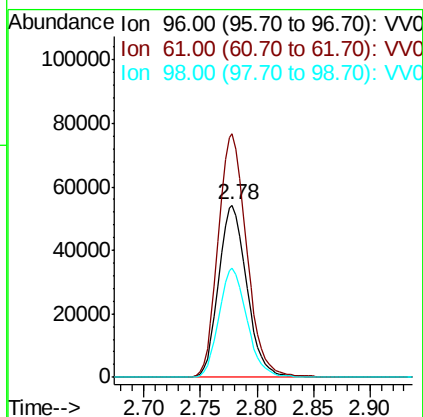
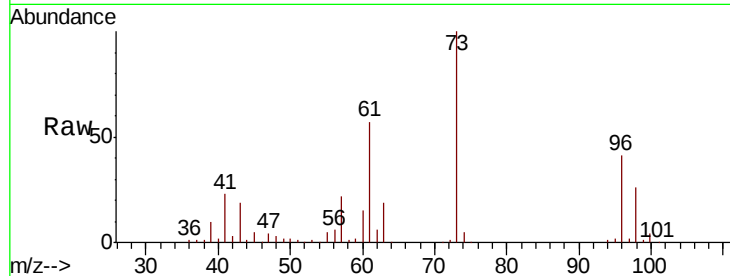




#17  
trans-1,2-Dichloroethene  
Concen: 50.027 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

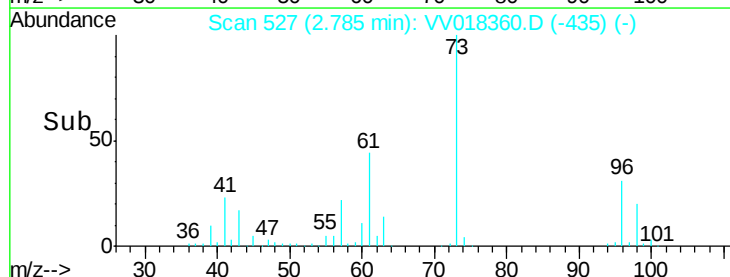
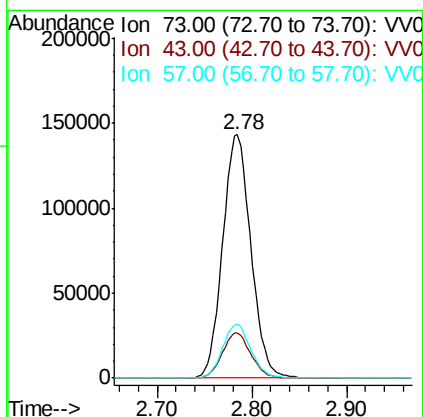
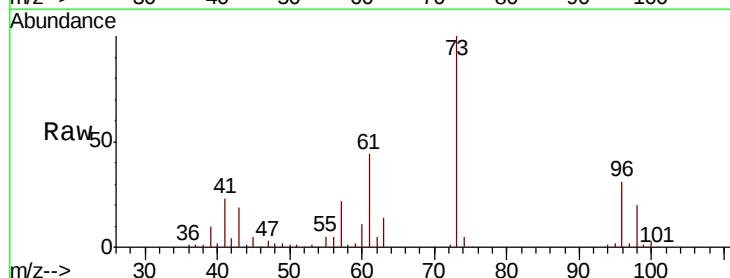
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD05081

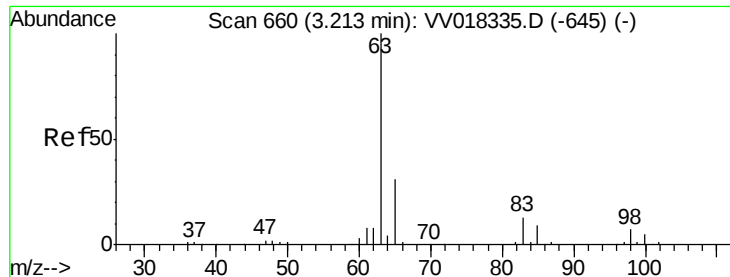
Tot Ion: 96 Resp: 94836  
Ion Ratio Lower Upper  
96 100  
61 141.4 100.7 186.9  
98 63.4 45.2 84.0



#18  
Methyl tert-butyl Ether  
Concen: 50.643 ug/L  
RT: 2.78 min Scan# 527  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

Tgt Ion: 73 Resp: 296976  
Ion Ratio Lower Upper  
73 100  
43 18.8 15.4 23.0  
57 22.2 18.0 27.0

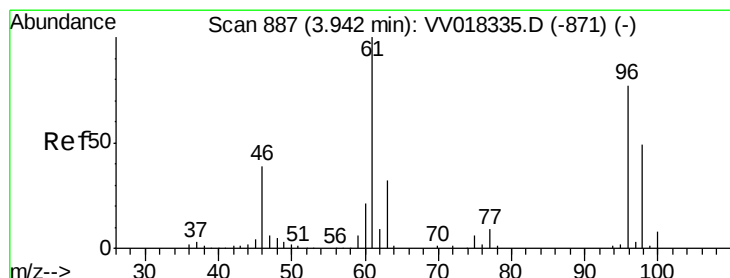
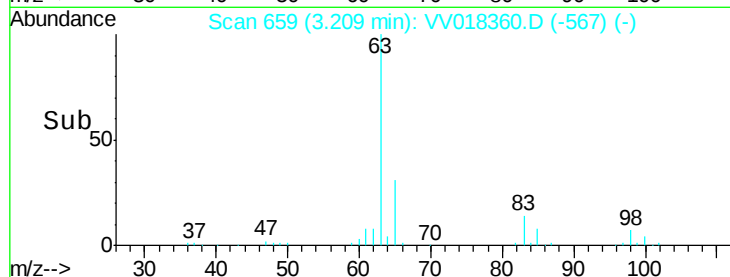
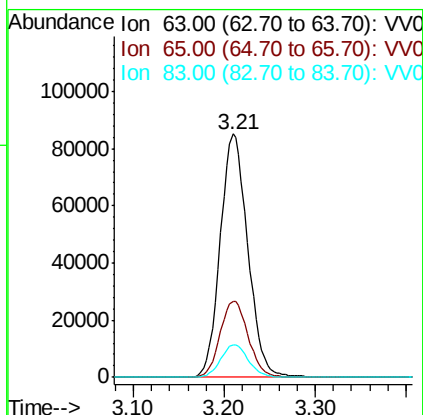
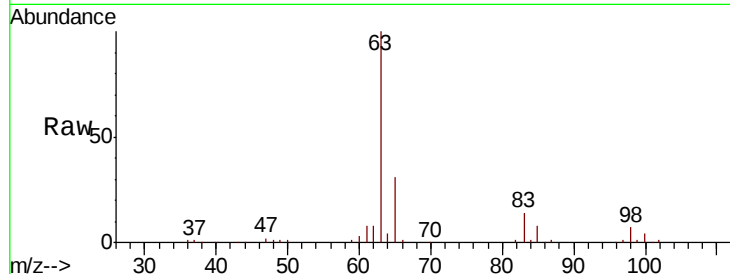




#19  
 1,1-Dichloroethane  
 Concen: 50.074 ug/L  
 RT: 3.21 min Scan# 659  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

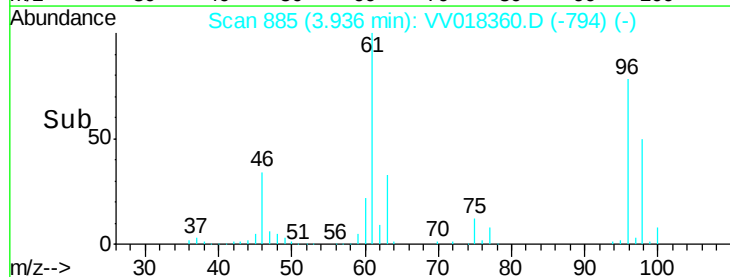
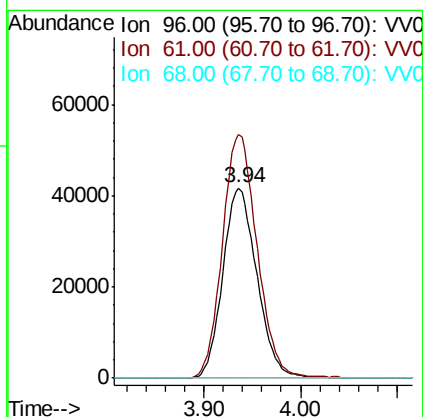
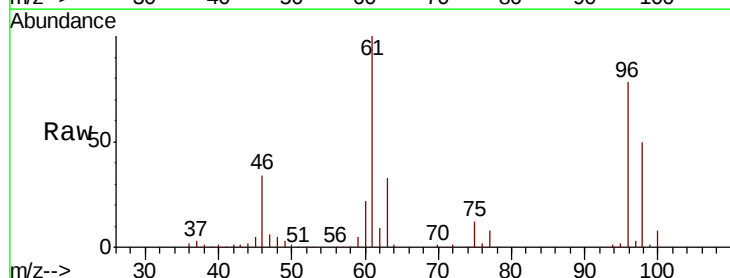
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD05081

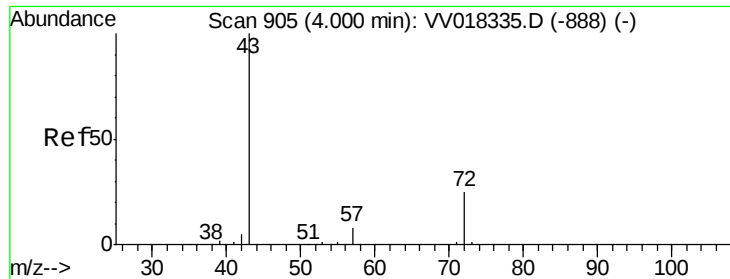
Tot Ion: 63 Resp: 179476  
 Ion Ratio Lower Upper  
 63 100  
 65 31.3 22.5 41.7  
 83 13.5 9.3 17.3



#20  
 cis-1,2-Dichloroethene  
 Concen: 50.450 ug/L  
 RT: 3.94 min Scan# 885  
 Delta R.T. -0.01 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

Tgt Ion: 96 Resp: 102236  
 Ion Ratio Lower Upper  
 96 100  
 61 128.2 93.6 173.8  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 119.102 ug/L

RT: 3.99 min Scan# 902

Delta R.T. -0.01 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

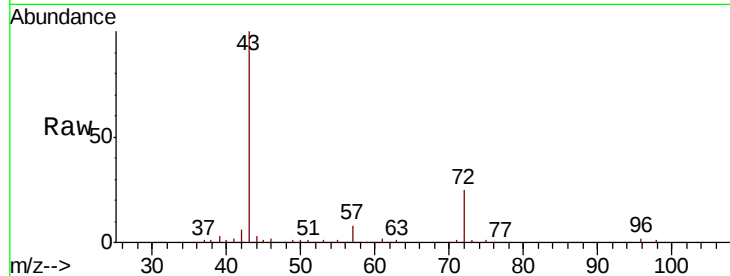
VSTD05081

Tot Ion: 43 Resp: 157819

Ion Ratio Lower Upper

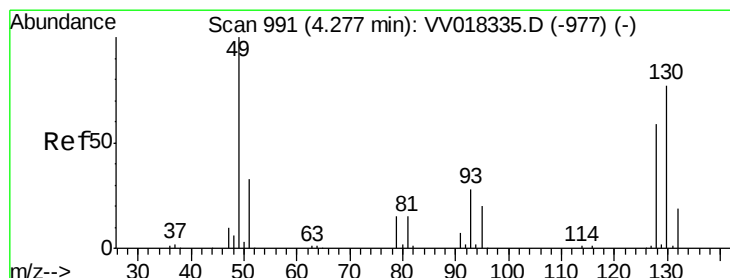
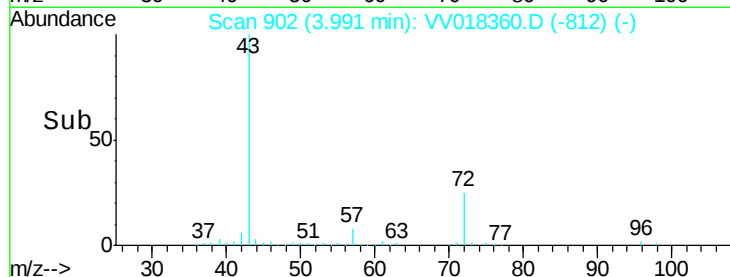
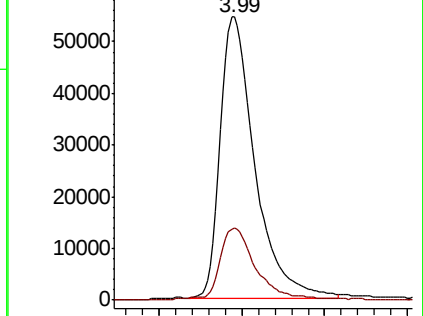
43 100

72 26.7 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VV018335.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV018335.D (-888) (-)



#23

Bromochloromethane

Concen: 51.081 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Tgt Ion: 128 Resp: 54159

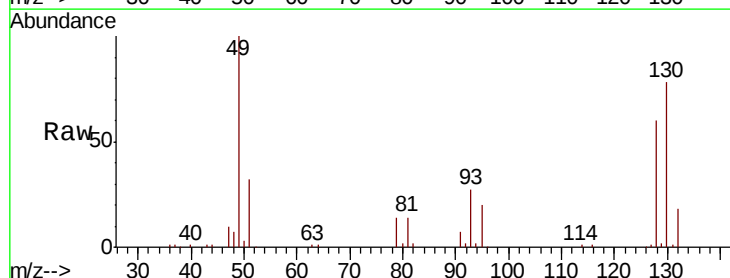
Ion Ratio Lower Upper

128 100

49 166.5 114.4 212.6

130 130.1 87.9 163.3

51 53.8 41.8 62.8

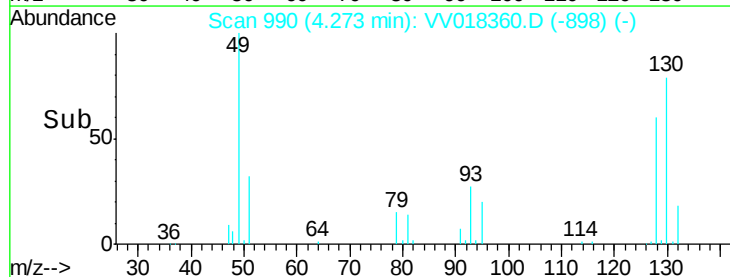
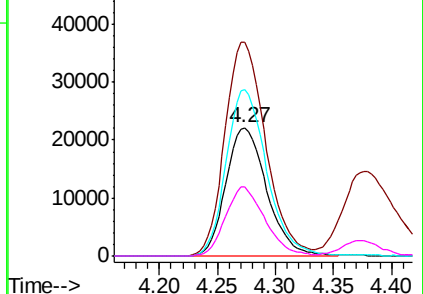


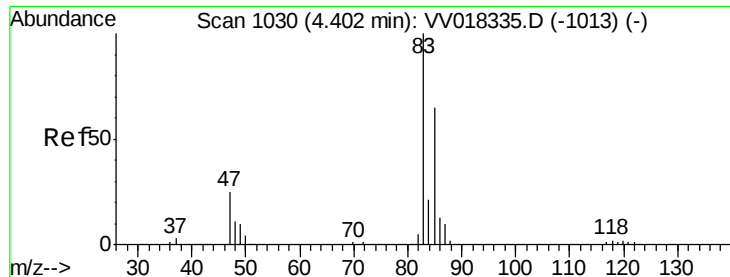
Abundance Ion 128.00 (127.70 to 128.70): VV018335.D (-977) (-)

Ion 49.00 (48.70 to 49.70): VV018335.D (-977) (-)

Ion 130.00 (129.70 to 130.70): VV018335.D (-977) (-)

Ion 51.00 (50.70 to 51.70): VV018335.D (-977) (-)

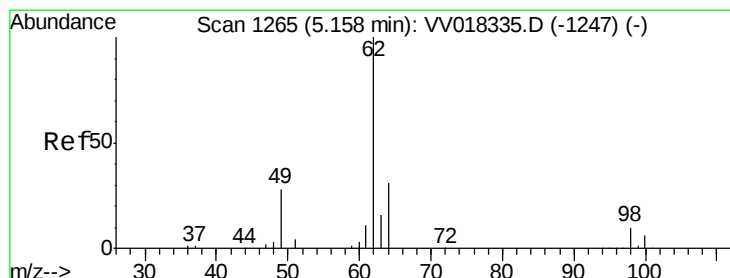
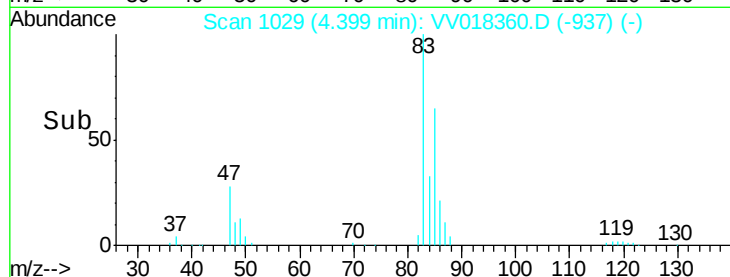
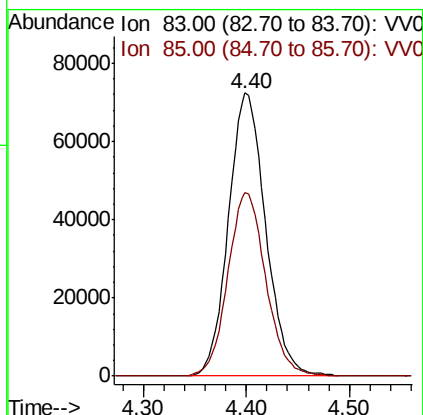
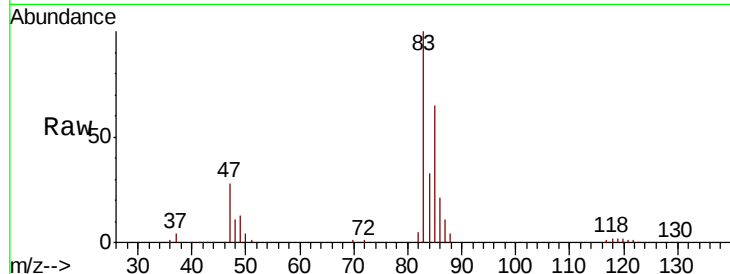




#25  
Chloroform  
Concen: 49.976 ug/L  
RT: 4.40 min Scan# 1029  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

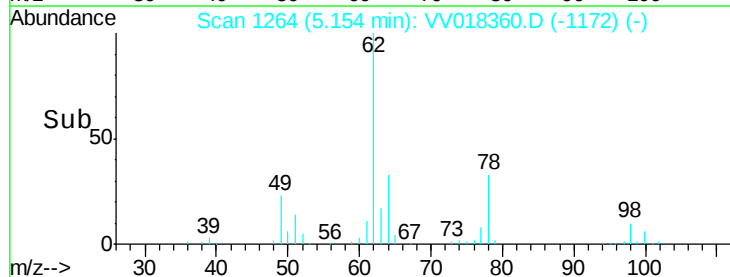
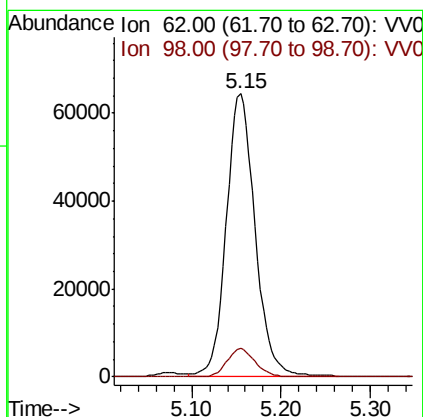
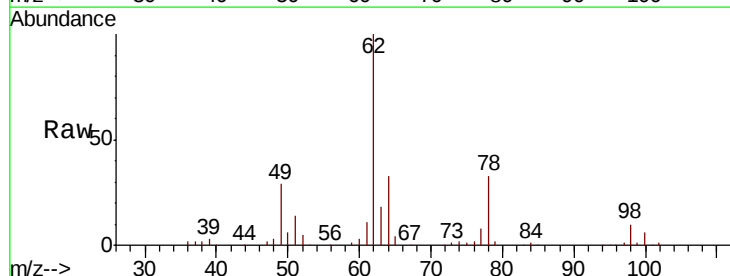
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05081

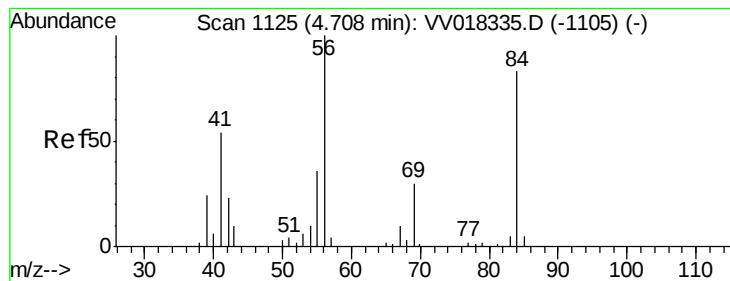
Tot Ion: 83 Resp: 182081  
Ion Ratio Lower Upper  
83 100  
85 64.7 45.0 83.6



#27  
1,2-Dichloroethane  
Concen: 50.913 ug/L  
RT: 5.15 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

Tgt Ion: 62 Resp: 143601  
Ion Ratio Lower Upper  
62 100  
98 10.1 7.6 11.4





#29

Cyclohexane

Concen: 50.242 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05081

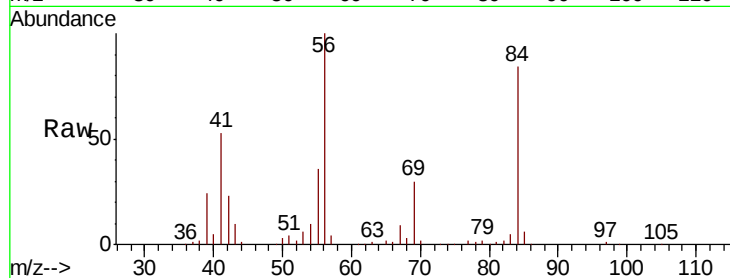
Tot Ion: 56 Resp: 162192

Ion Ratio Lower Upper

56 100

69 29.9 24.2 36.2

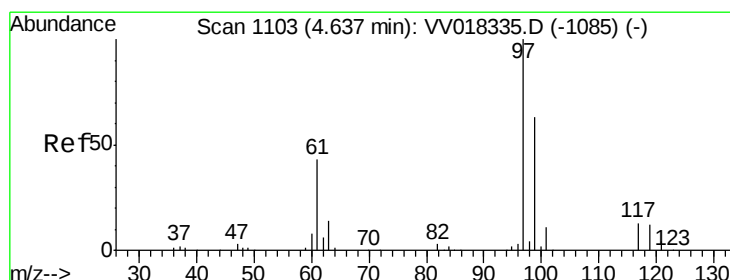
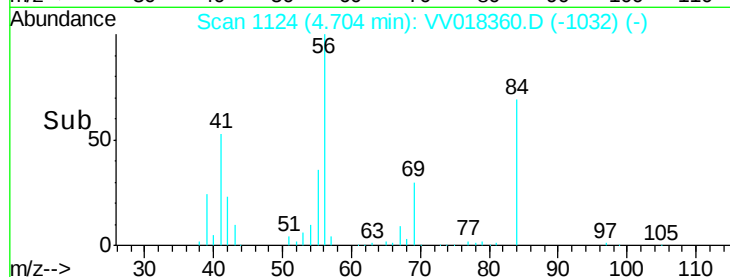
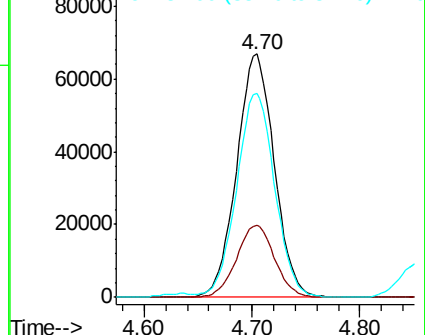
84 84.9 68.3 102.5



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 49.380 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

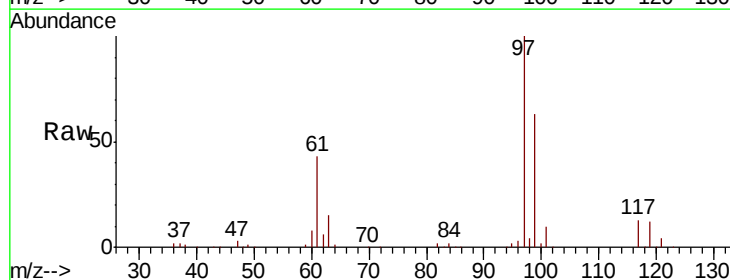
Tgt Ion: 97 Resp: 160211

Ion Ratio Lower Upper

97 100

99 63.9 51.6 77.4

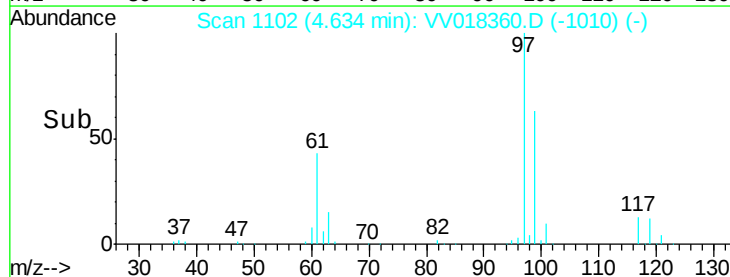
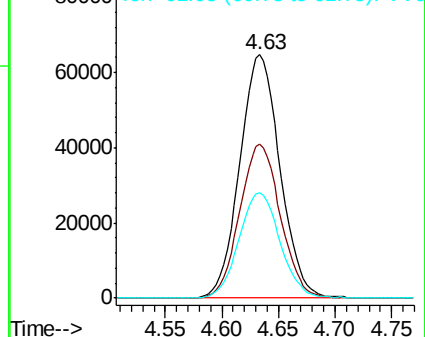
61 44.2 34.9 52.3

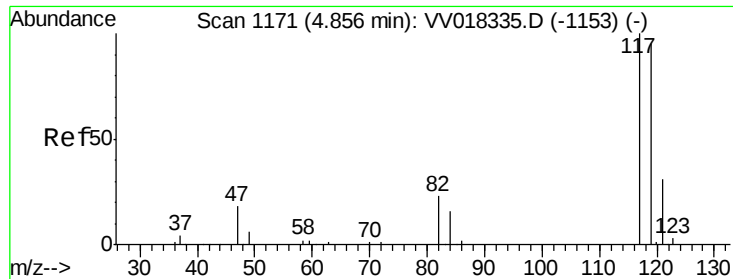


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

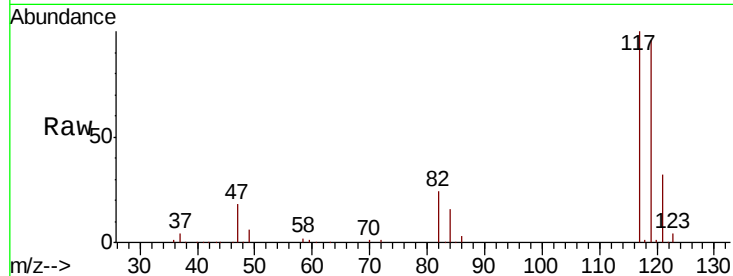




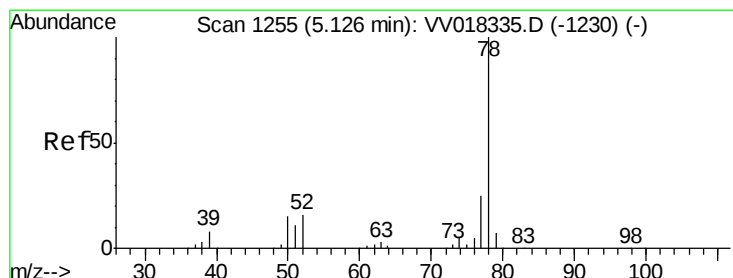
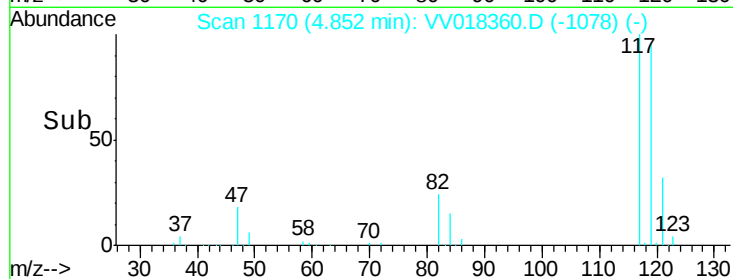
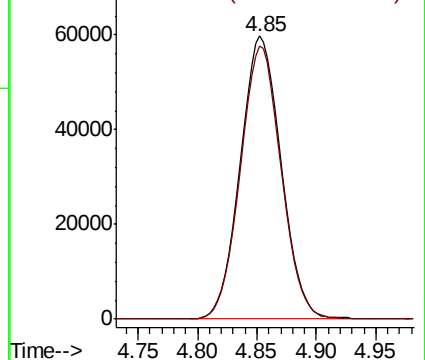
#31  
Carbon tetrachloride  
Concen: 49.728 ug/L  
RT: 4.85 min Scan# 1170  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05081

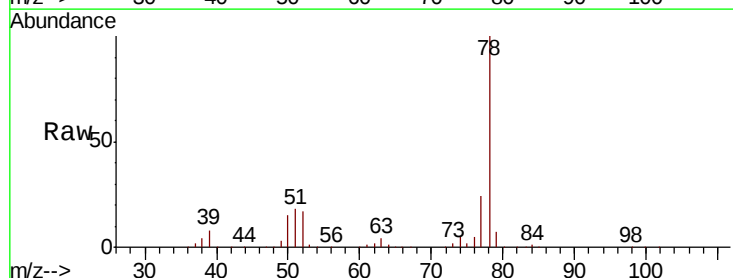
Tot Ion:117 Resp: 141866  
Ion Ratio Lower Upper  
117 100  
119 96.2 75.7 113.5



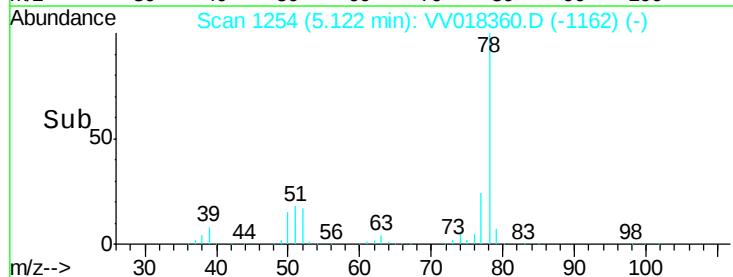
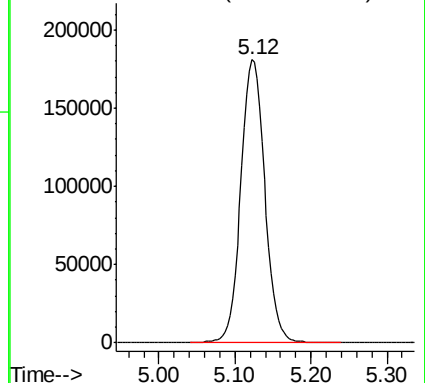
Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V

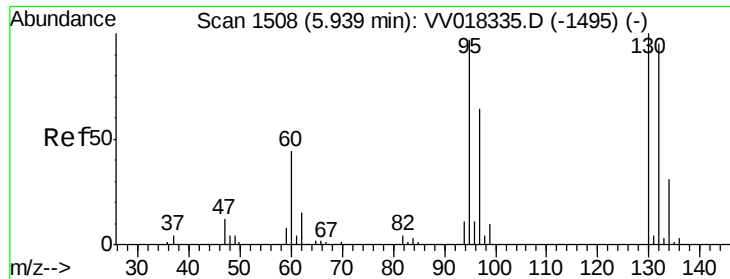


#33  
Benzene  
Concen: 49.764 ug/L  
RT: 5.12 min Scan# 1254  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39  
Tgt Ion: 78 Resp: 397765



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 47.911 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05081

Tot Ion: 95 Resp: 104322

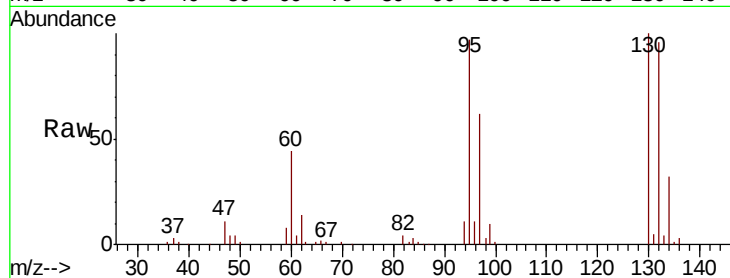
Ion Ratio Lower Upper

95 100

97 64.4 46.3 85.9

132 99.3 68.1 126.5

130 103.2 71.5 132.9

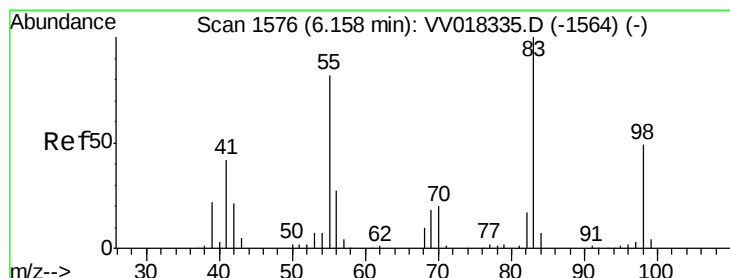
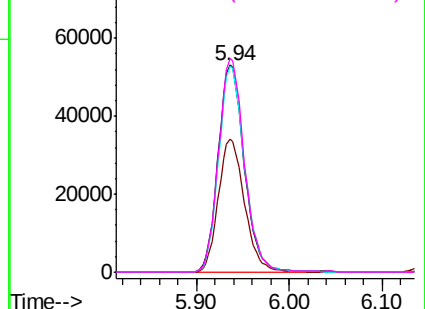
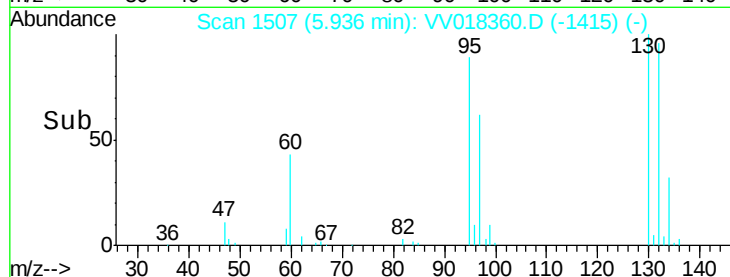


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 50.930 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

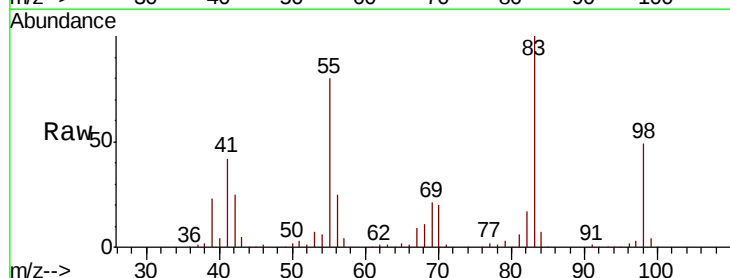
Tgt Ion: 83 Resp: 166971

Ion Ratio Lower Upper

83 100

55 79.4 63.4 95.2

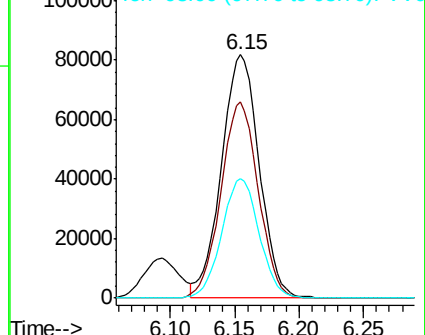
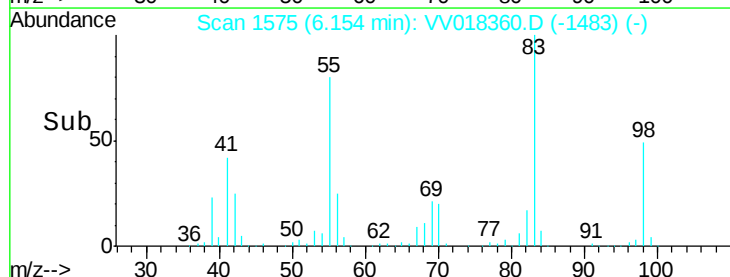
98 48.5 38.8 58.2

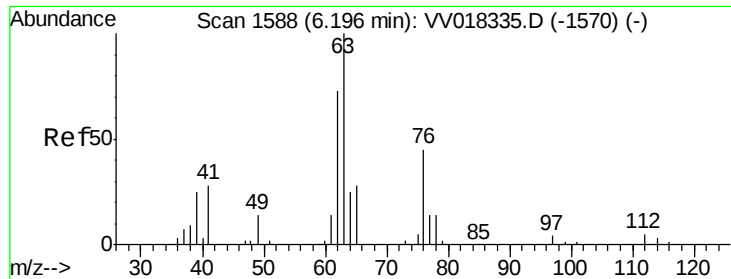


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

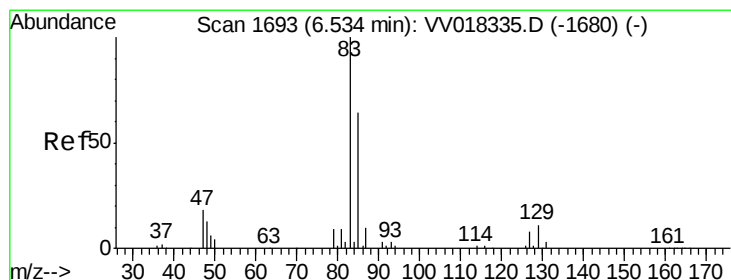
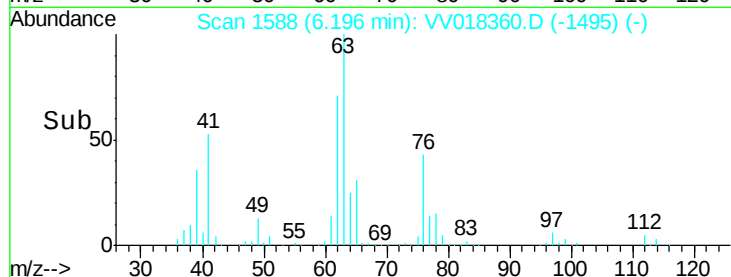
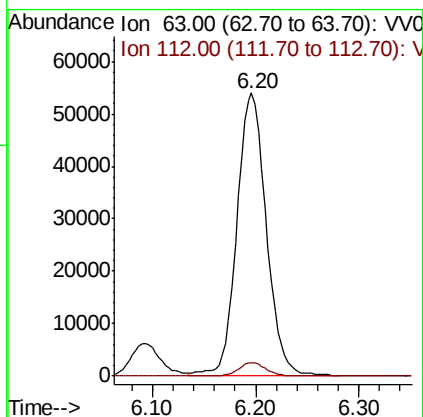
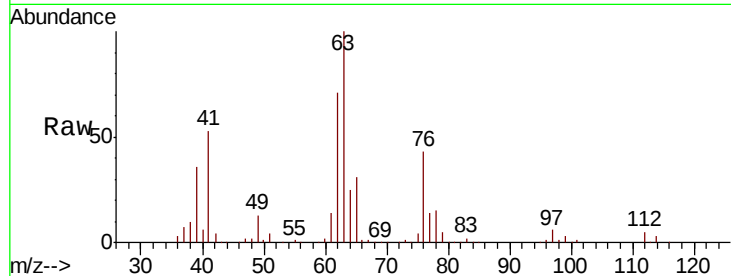




#37  
 1,2-Dichloropropane  
 Concen: 50.360 ug/L  
 RT: 6.20 min Scan# 1588  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

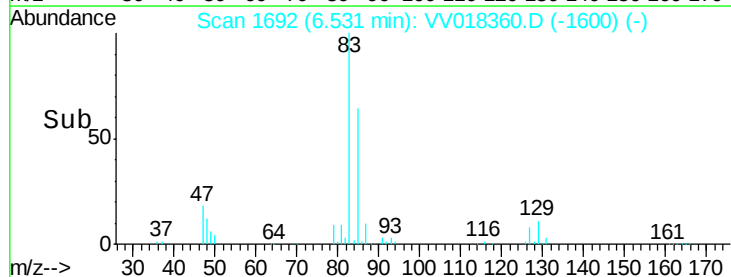
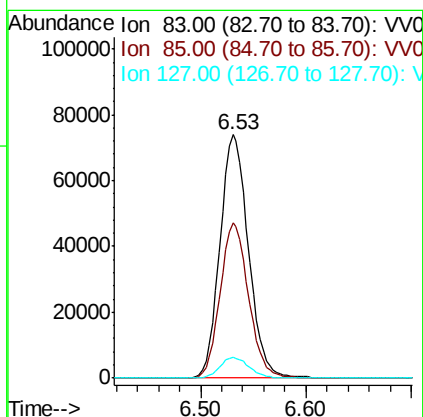
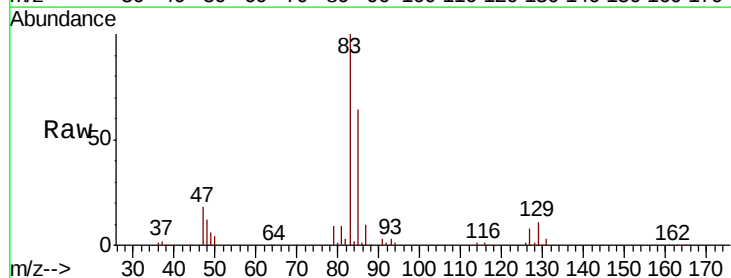
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD05081

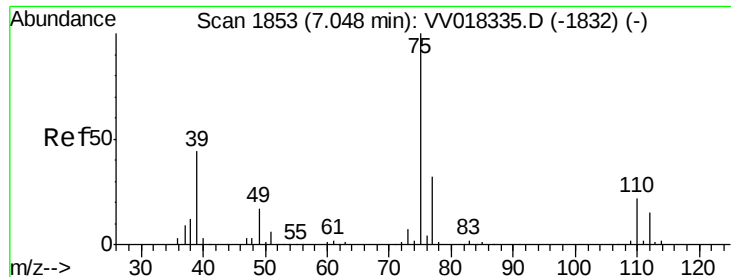
Tot Ion: 63 Resp: 106665  
 Ion Ratio Lower Upper  
 63 100  
 112 4.5 3.4 5.2



#38  
 Bromodichloromethane  
 Concen: 50.151 ug/L  
 RT: 6.53 min Scan# 1692  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

Tgt Ion: 83 Resp: 138233  
 Ion Ratio Lower Upper  
 83 100  
 85 63.5 44.7 82.9  
 127 8.3 6.7 10.1

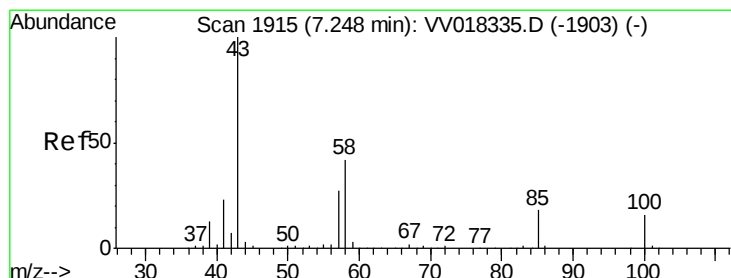
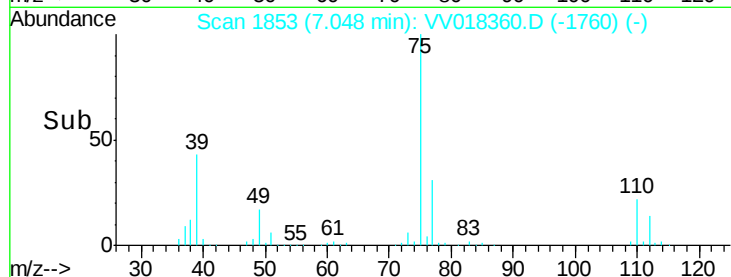
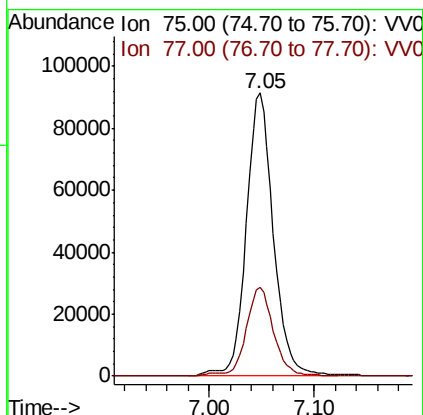
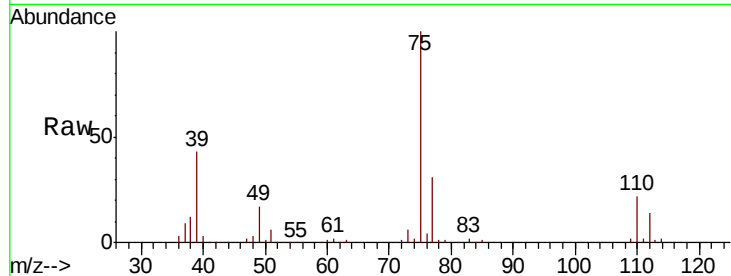




#39  
 cis-1,3-Dichloropropene  
 Concen: 50.147 ug/L  
 RT: 7.05 min Scan# 1853  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

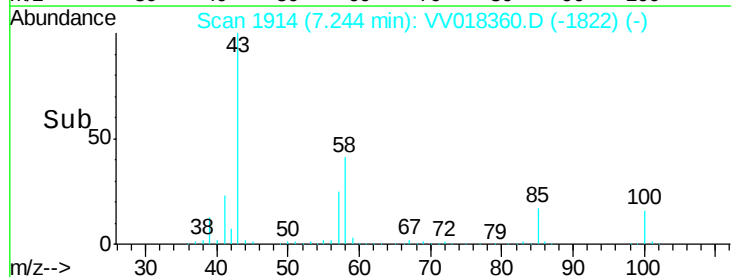
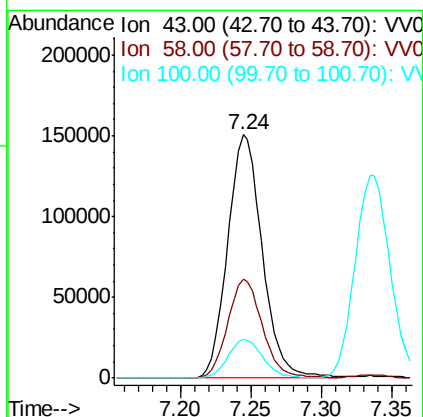
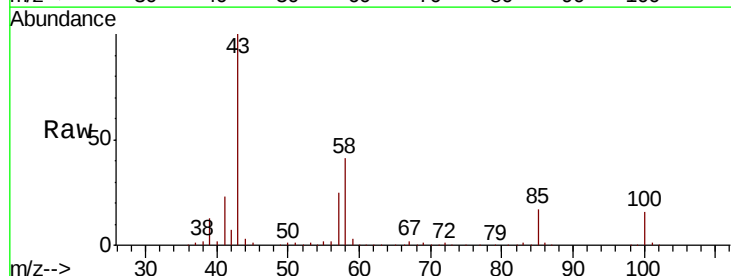
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD05081

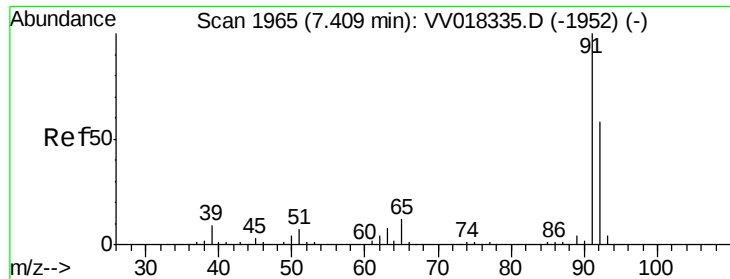
Tot Ion: 75 Resp: 163651  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 22.3 41.3



#40  
 4-Methyl-2-pentanone  
 Concen: 100.976 ug/L  
 RT: 7.24 min Scan# 1914  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

Tgt Ion: 43 Resp: 259464  
 Ion Ratio Lower Upper  
 43 100  
 58 40.7 32.4 48.6  
 100 16.0 12.7 19.1





#42

Toluene

Concen: 50.710 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

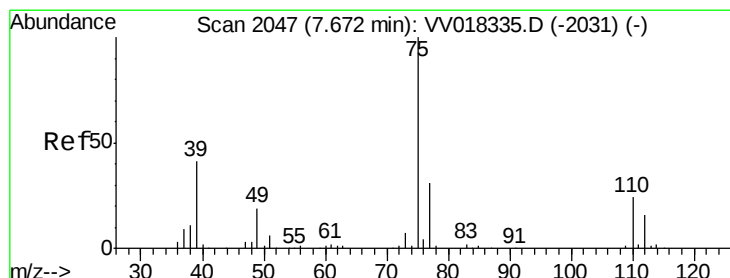
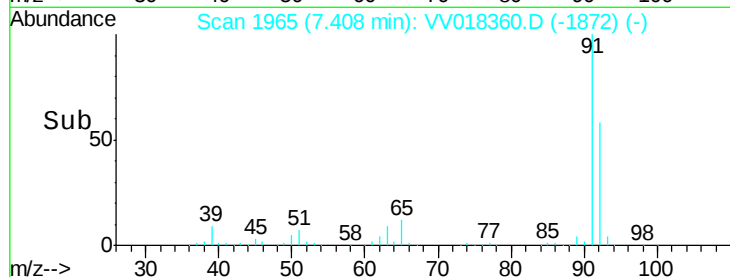
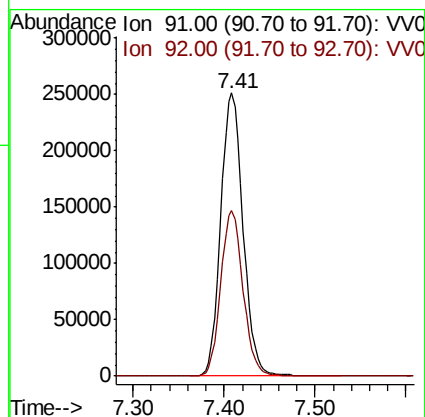
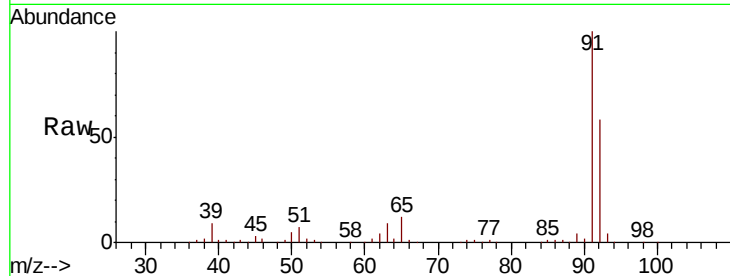
VSTD05081

Tot Ion: 91 Resp: 428948

Ion Ratio Lower Upper

91 100

92 58.5 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 50.775 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VV018360.D

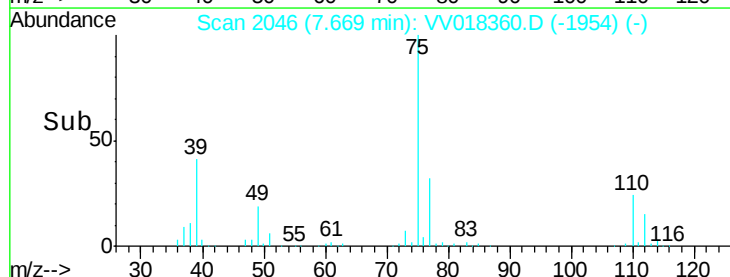
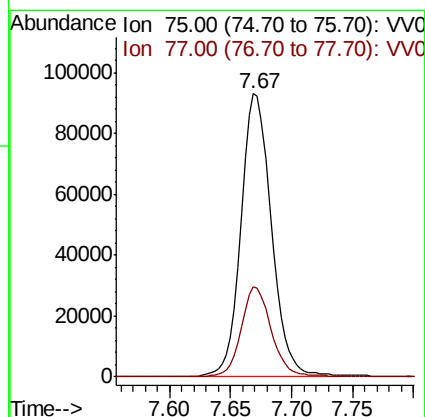
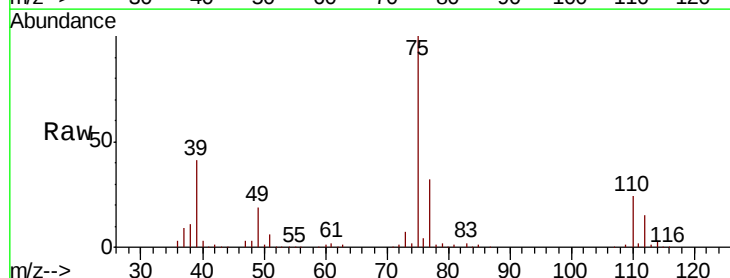
Acq: 21 Sep 2020 10:39

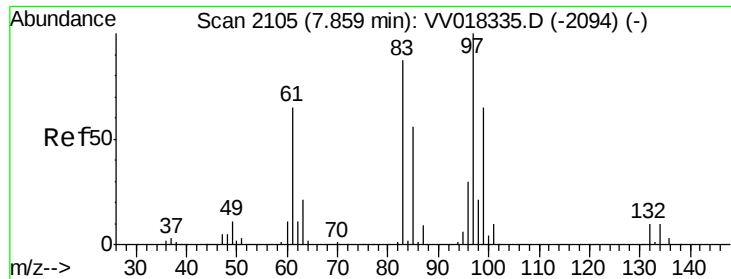
Tgt Ion: 75 Resp: 161335

Ion Ratio Lower Upper

75 100

77 31.6 22.3 41.5

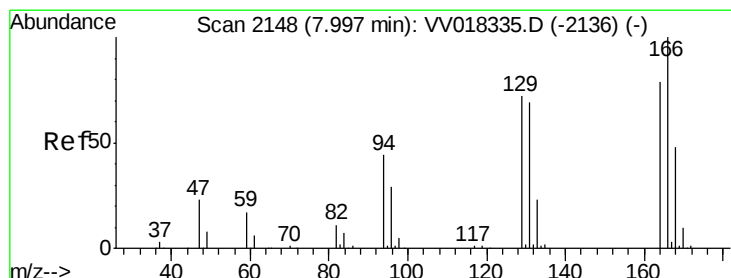
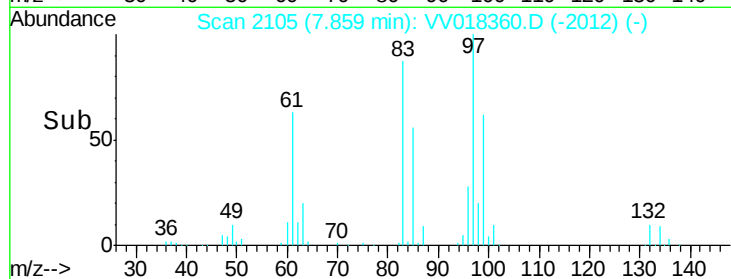
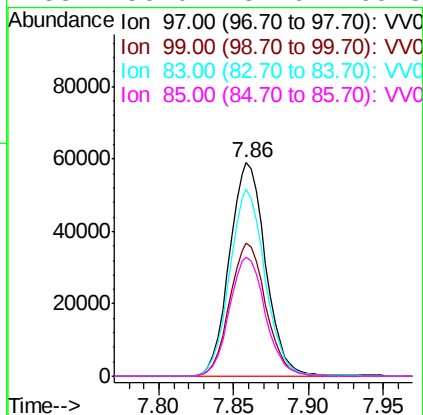
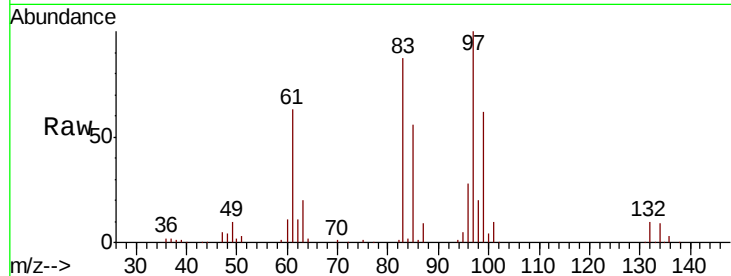




#45  
 1,1,2-Trichloroethane  
 Concen: 50.433 ug/L  
 RT: 7.86 min Scan# 2105  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

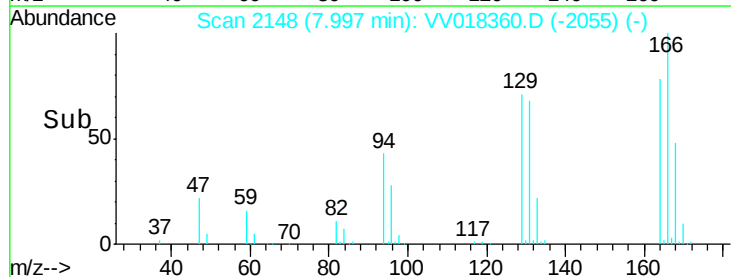
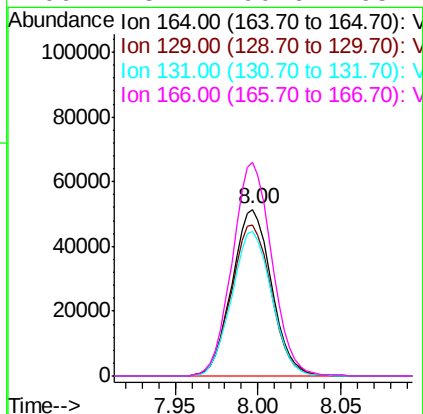
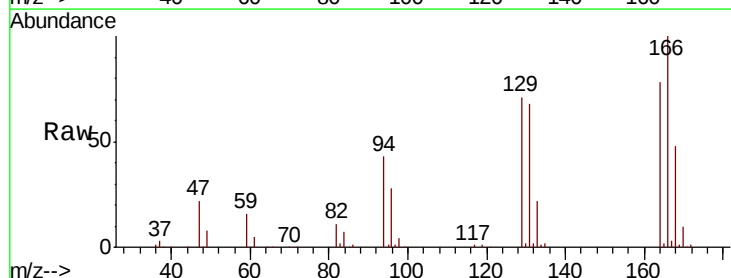
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05081

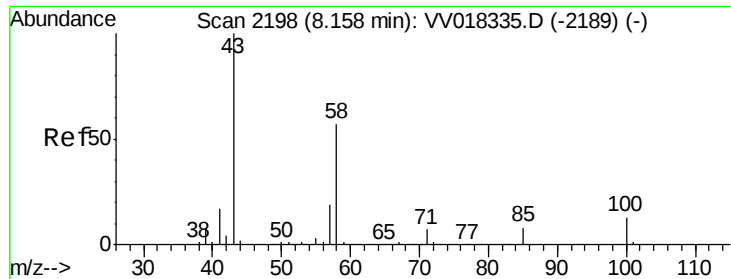
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 99009 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.1  | 43.7  | 81.1  |
| 83       | 87.3  | 59.9  | 111.3 |
| 85       | 56.0  | 37.6  | 69.8  |



#46  
 Tetrachloroethene  
 Concen: 50.108 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 85546 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 90.7  | 64.5  | 119.7 |
| 131      | 87.0  | 61.8  | 114.8 |
| 166      | 128.2 | 90.6  | 168.2 |

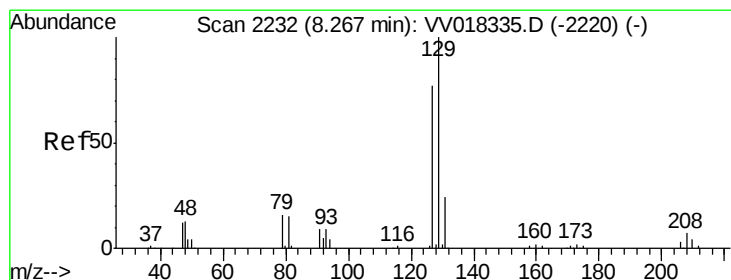
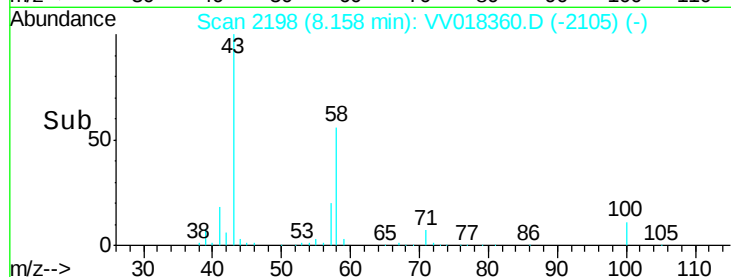
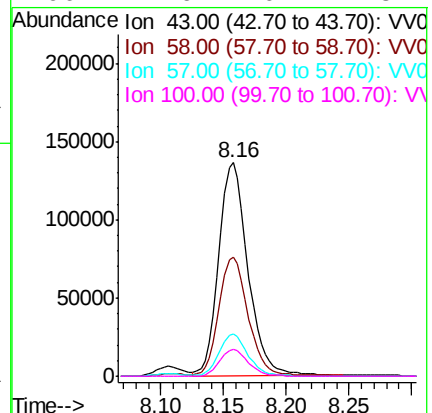
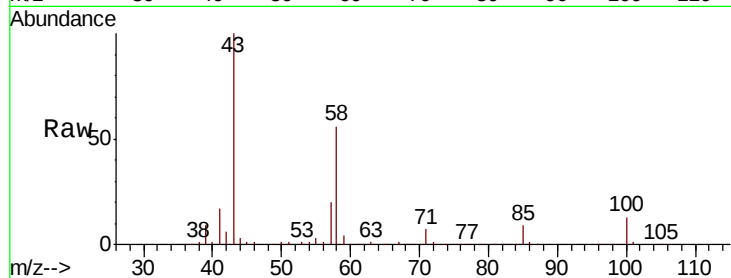




#48  
2-Hexanone  
Concen: 108.494 ug/L  
RT: 8.16 min Scan# 2198  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

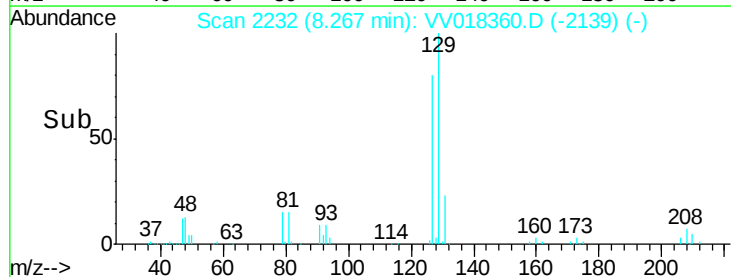
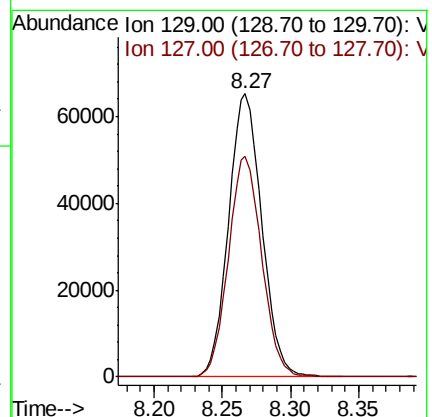
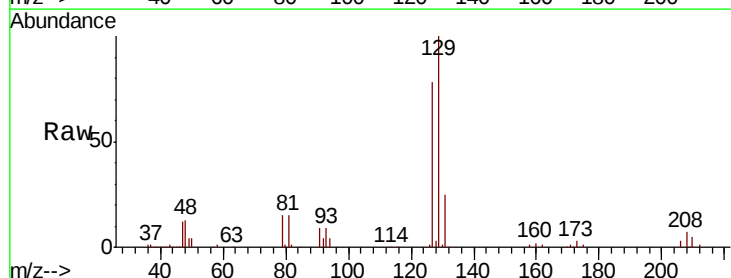
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05081

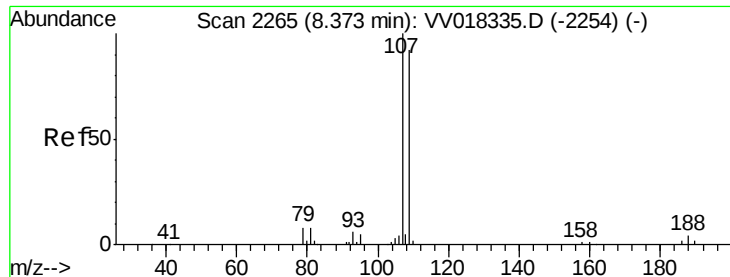
Tot Ion: 43 Resp: 219786  
Ion Ratio Lower Upper  
43 100  
58 56.3 44.8 67.2  
57 19.7 15.8 23.6  
100 12.6 10.2 15.4



#49  
Dibromochloromethane  
Concen: 50.187 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

Tgt Ion: 129 Resp: 110593  
Ion Ratio Lower Upper  
129 100  
127 78.0 54.5 101.1

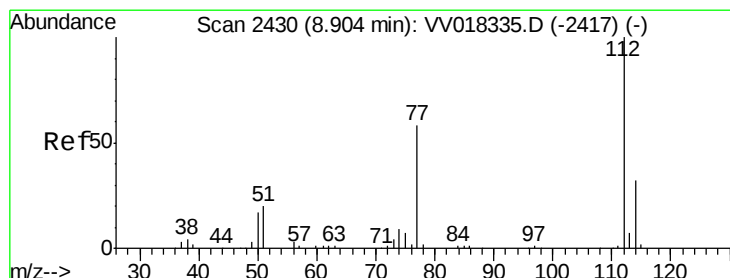
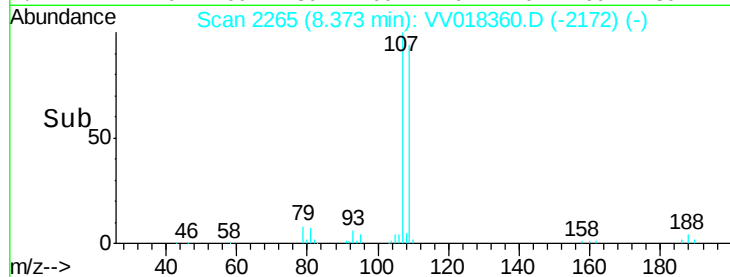
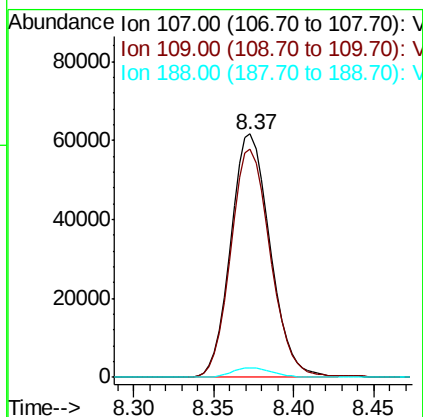
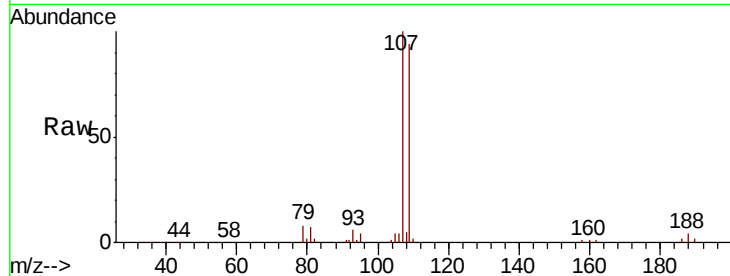




#50  
1,2-Dibromoethane  
Concen: 50.005 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

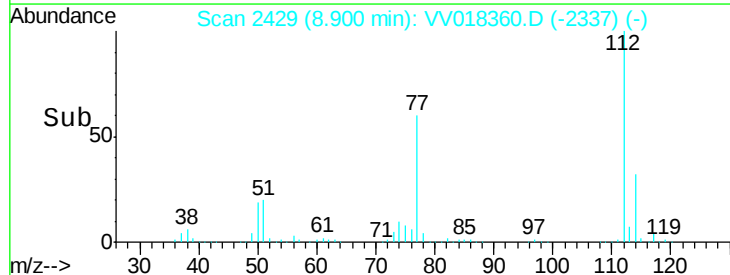
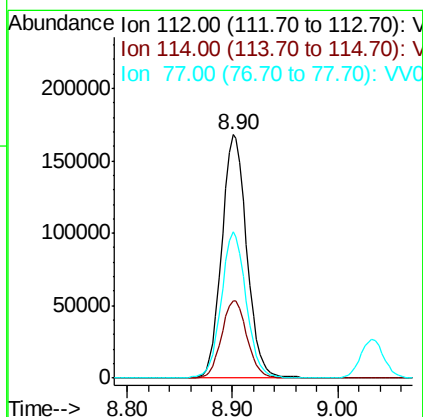
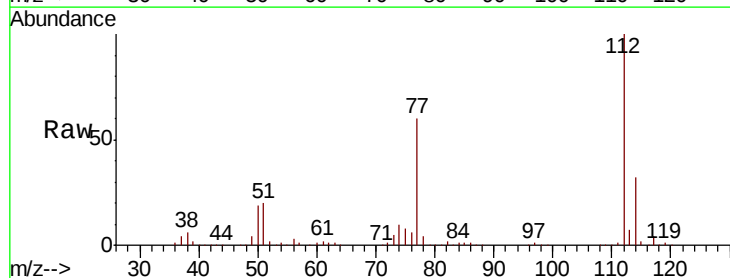
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05081

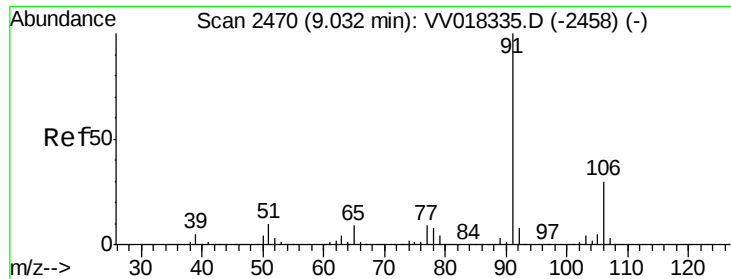
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.7  | 66.1  | 122.8 |
| 188     | 3.8   | 3.2   | 4.8   |



#51  
Chlorobenzene  
Concen: 50.117 ug/L  
RT: 8.90 min Scan# 2429  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.0  | 22.6  | 42.0  |
| 77      | 59.8  | 48.0  | 72.0  |

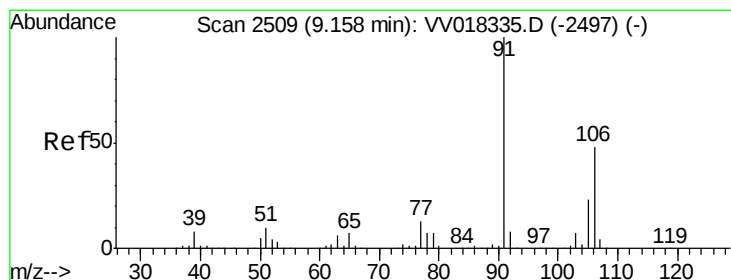
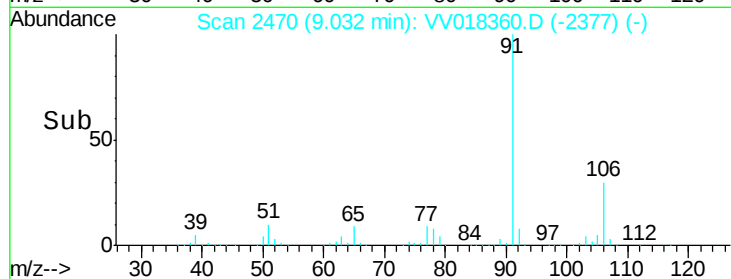
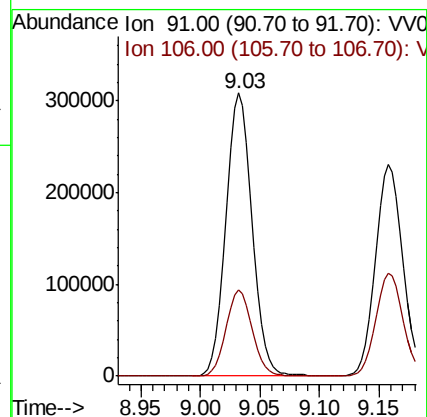
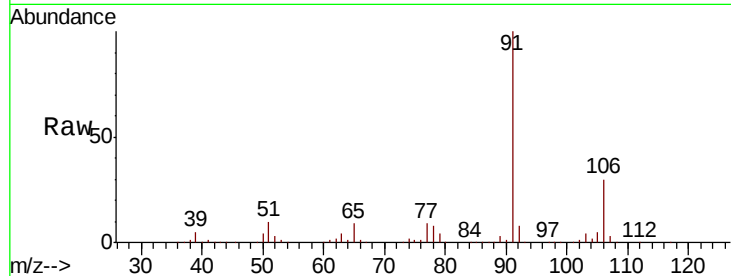




#52  
Ethylbenzene  
Concen: 51.106 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

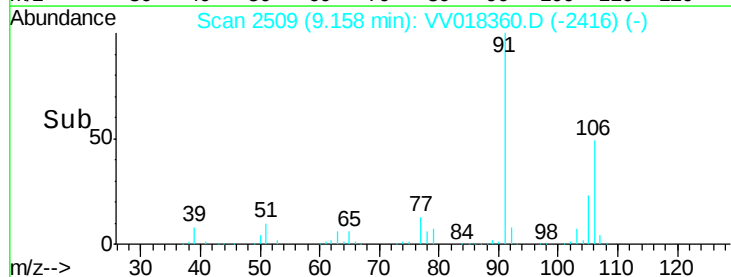
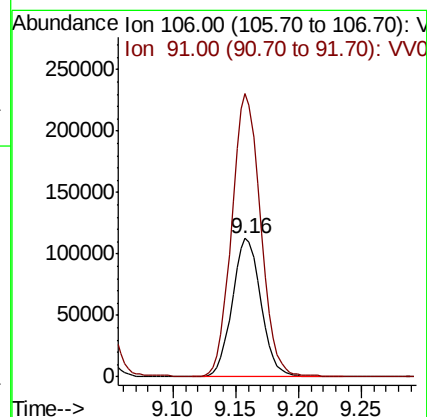
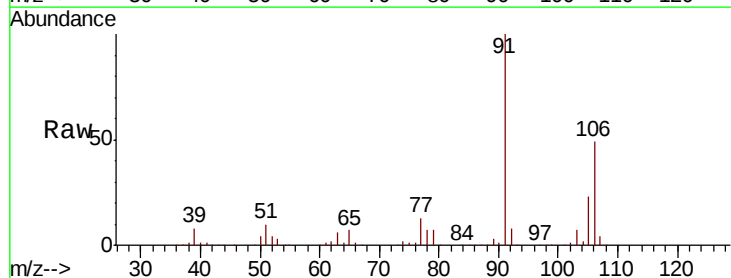
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05081

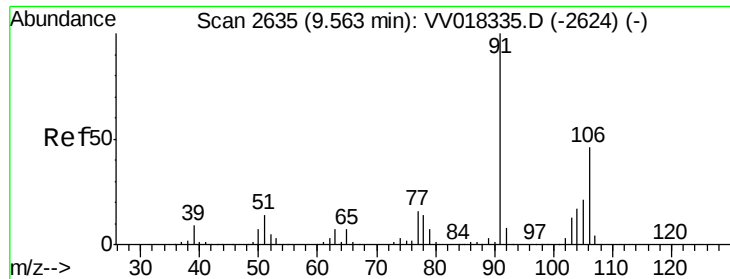
Tot Ion: 91 Resp: 471963  
Ion Ratio Lower Upper  
91 100  
106 30.3 21.3 39.5



#53  
m,p-Xylene  
Concen: 51.874 ug/L  
RT: 9.16 min Scan# 2509  
Delta R.T. -0.00 min  
Lab File: VV018360.D  
Acq: 21 Sep 2020 10:39

Tgt Ion: 106 Resp: 178809  
Ion Ratio Lower Upper  
106 100  
91 204.9 146.7 272.5





#54

o-xylene

Concen: 51.899 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

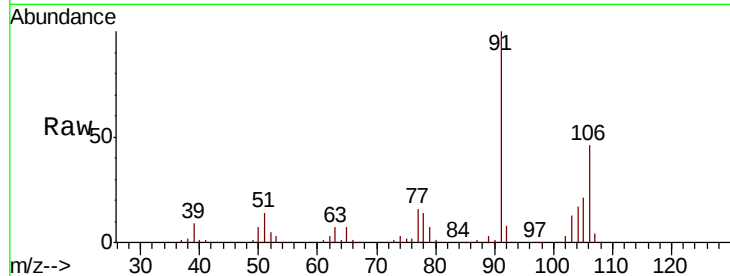
VSTD05081

Tot Ion:106 Resp: 172347

Ion Ratio Lower Upper

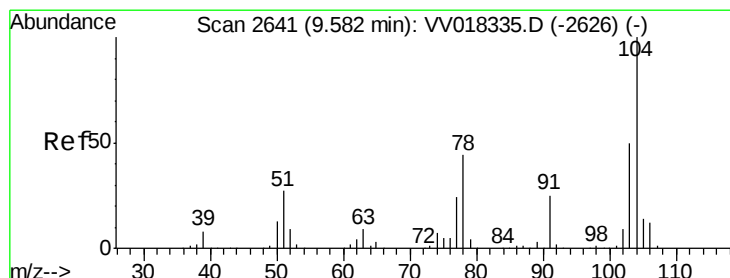
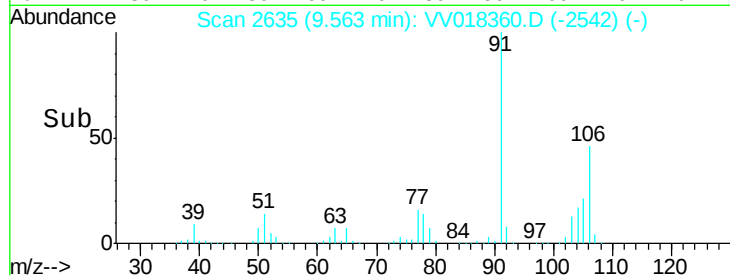
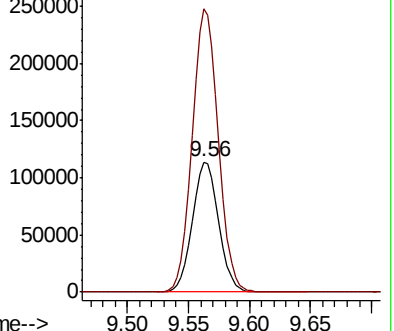
106 100

91 217.4 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 53.186 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV018360.D

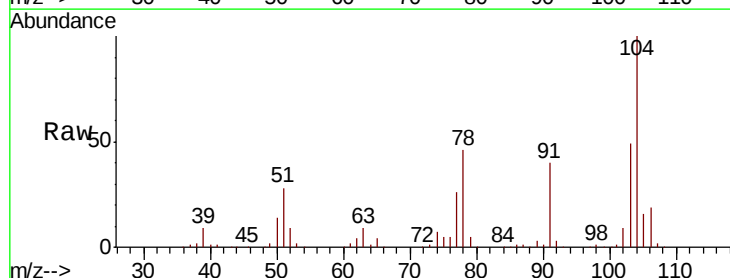
Acq: 21 Sep 2020 10:39

Tgt Ion:104 Resp: 306987

Ion Ratio Lower Upper

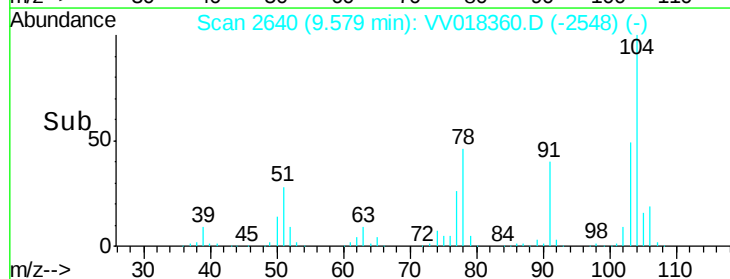
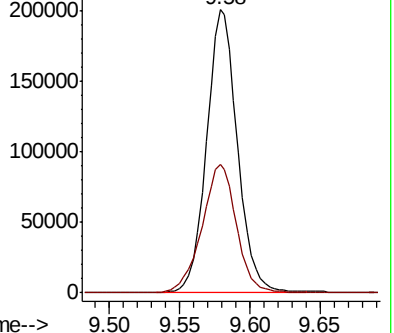
104 100

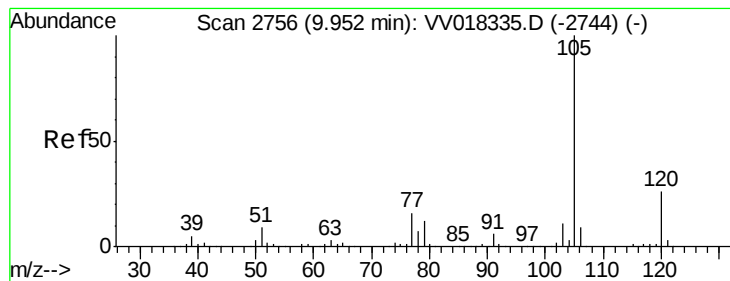
78 45.6 31.4 58.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 52.245 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05081

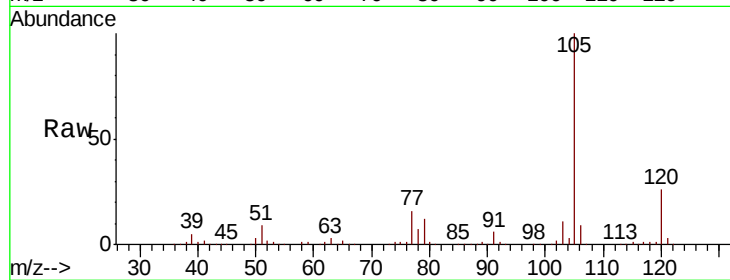
Tot Ion:105 Resp: 467579

Ion Ratio Lower Upper

105 100

120 25.8 20.9 31.3

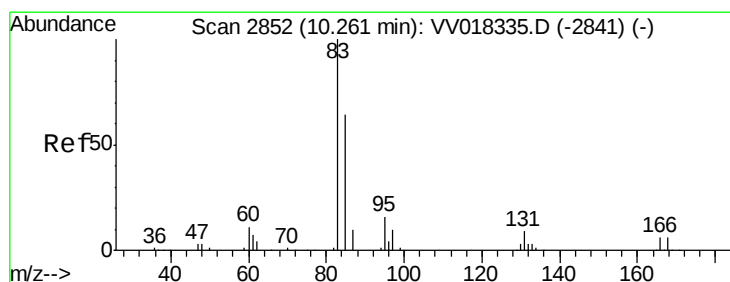
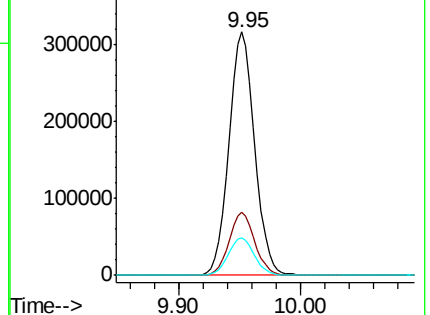
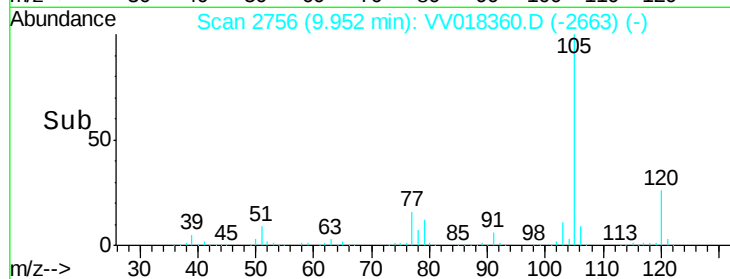
77 15.7 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.675 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

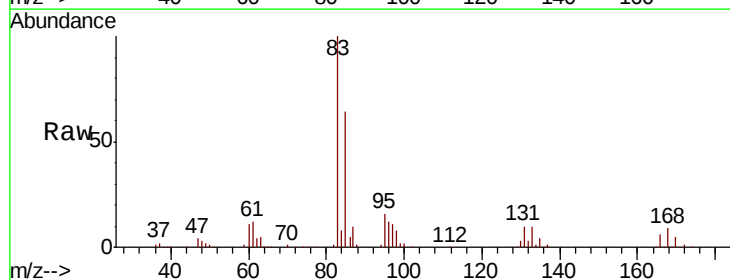
Tgt Ion: 83 Resp: 150065

Ion Ratio Lower Upper

83 100

85 64.4 45.8 85.2

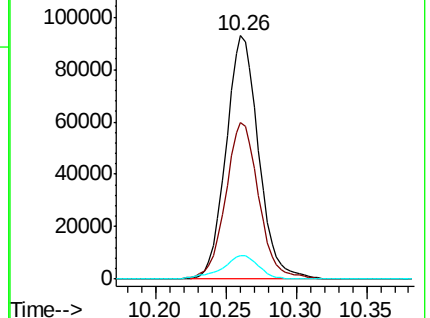
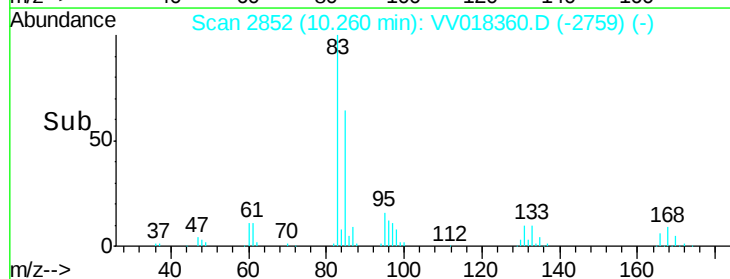
131 9.9 8.0 12.0

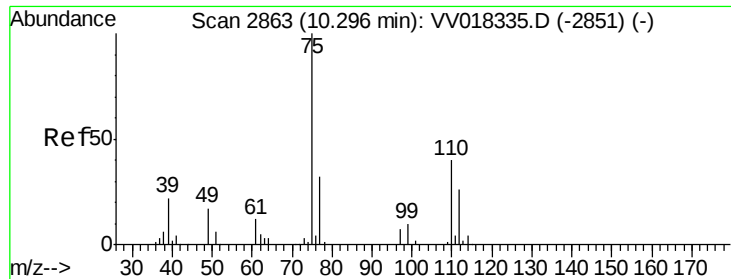


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.459 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

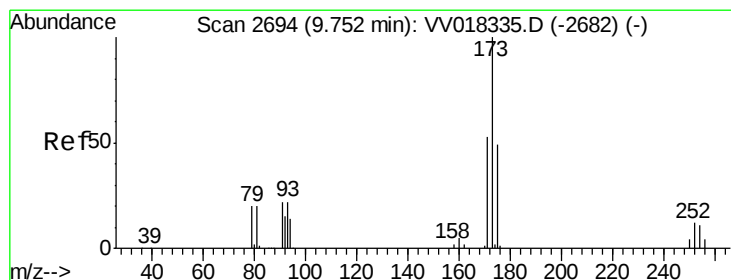
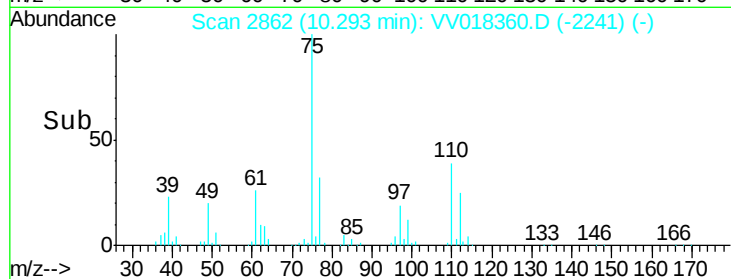
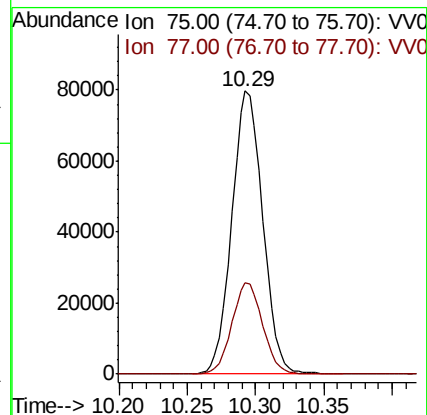
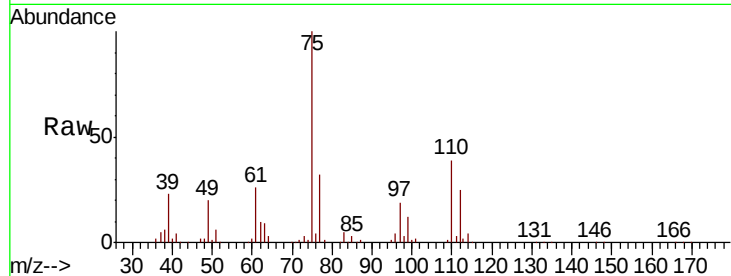
VSTD05081

Tot Ion: 75 Resp: 125706

Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.6



#61

Bromoform

Concen: 49.668 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

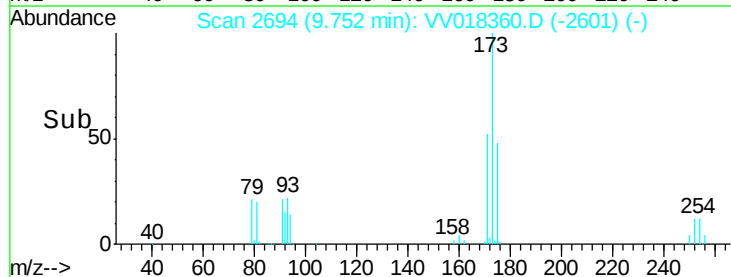
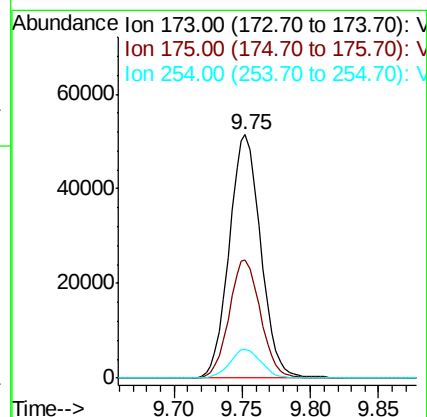
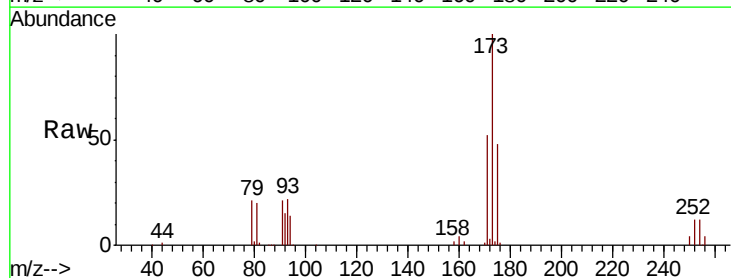
Tgt Ion: 173 Resp: 82831

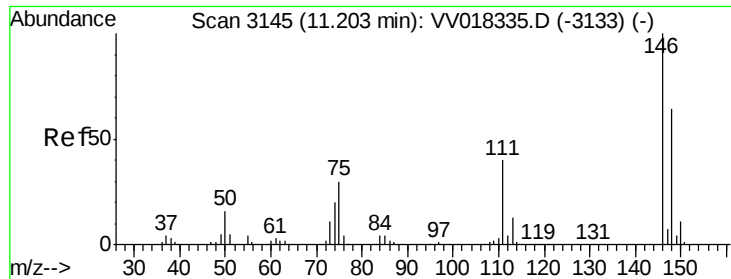
Ion Ratio Lower Upper

173 100

175 48.2 39.0 58.6

254 11.5 9.0 13.4

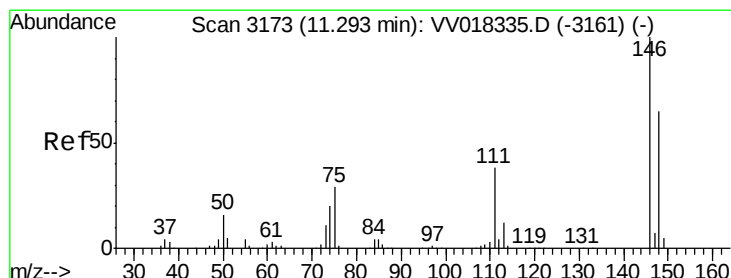
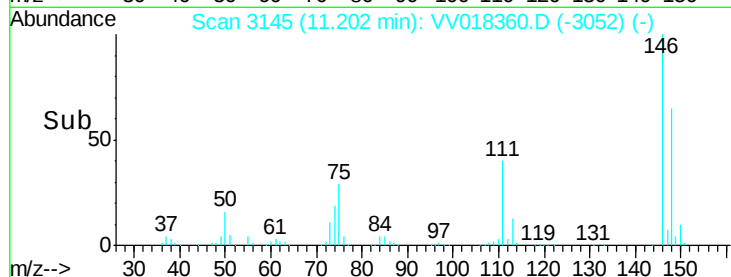
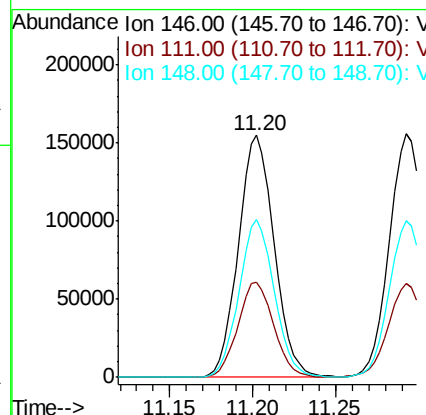
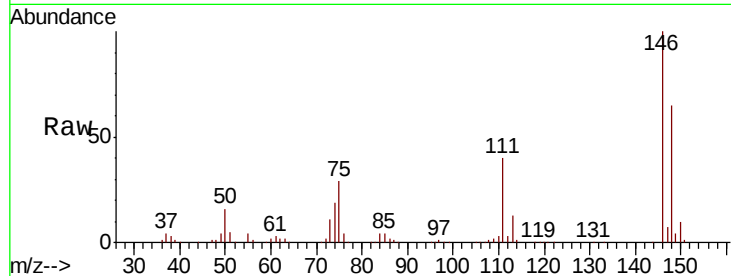




#62  
 1,3-Dichlorobenzene  
 Concen: 50.468 ug/L  
 RT: 11.20 min Scan# 3145  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

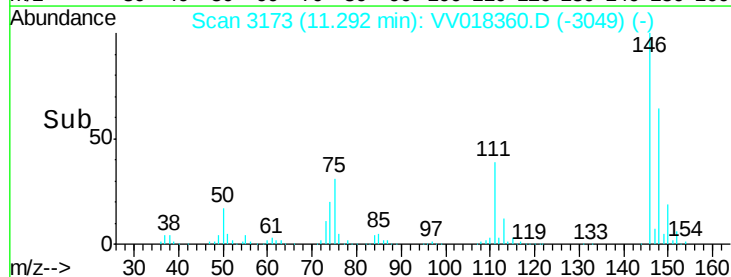
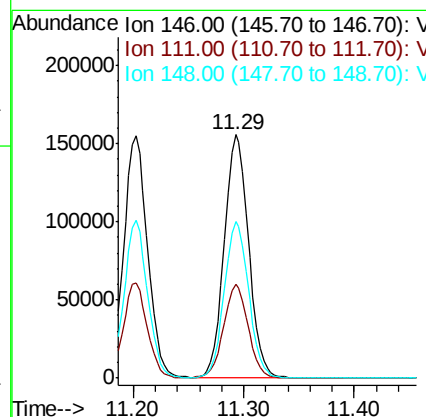
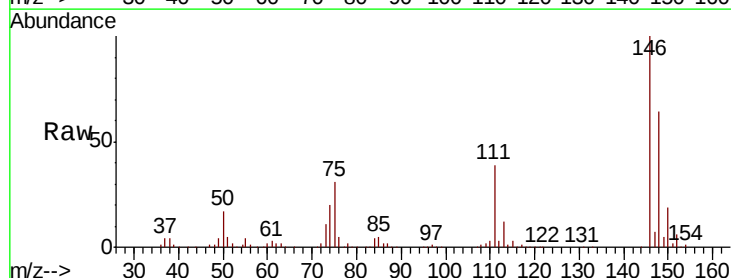
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05081

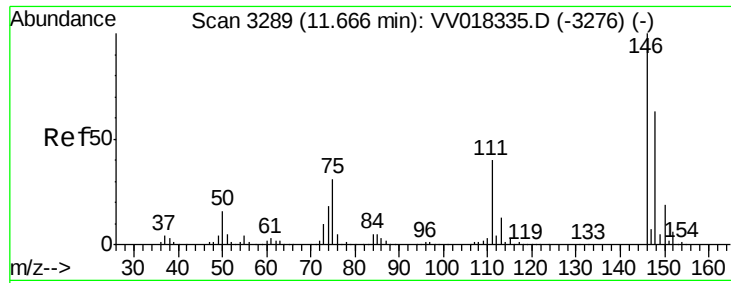
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.6  | 27.6  | 51.2  |
| 148     | 65.1  | 45.4  | 84.2  |



#63  
 1,4-Dichlorobenzene  
 Concen: 50.245 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.5  | 27.1  | 50.3  |
| 148     | 64.3  | 45.4  | 84.2  |

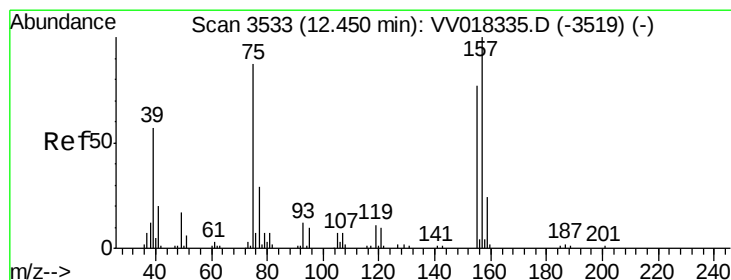
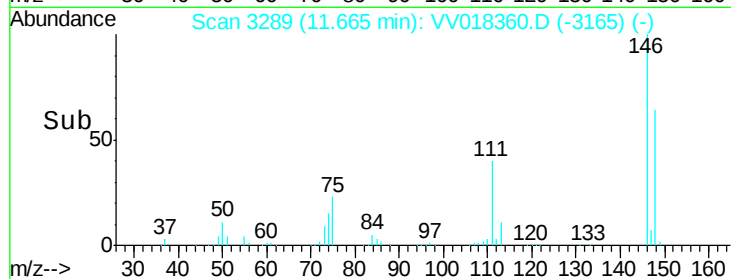
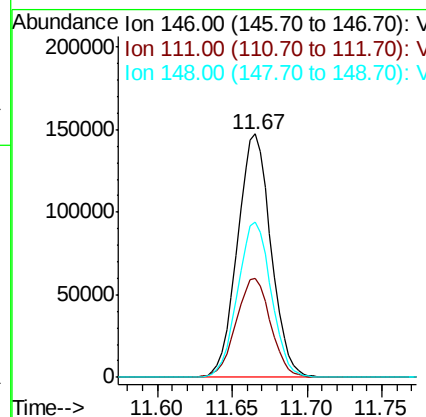
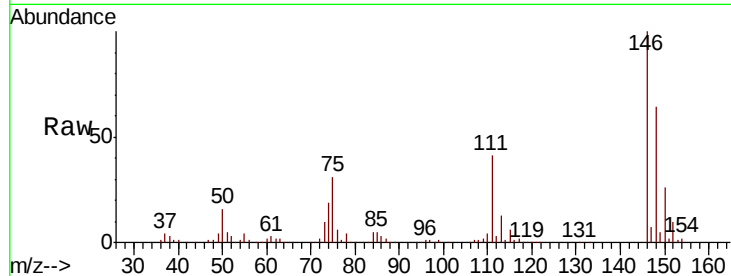




#65  
 1,2-Dichlorobenzene  
 Concen: 49.302 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

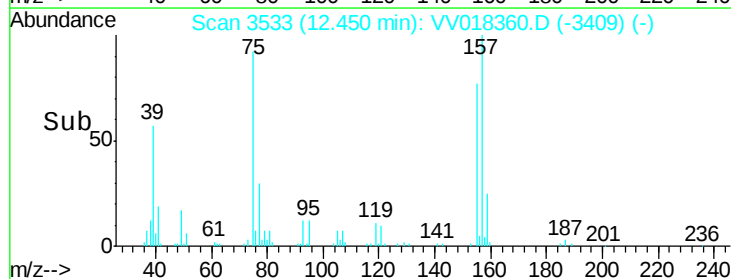
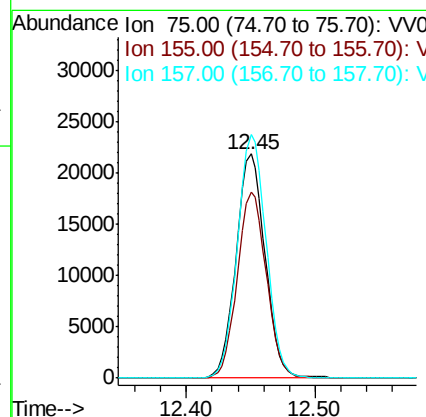
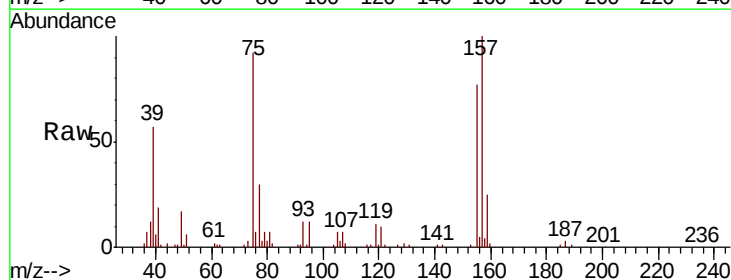
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05081

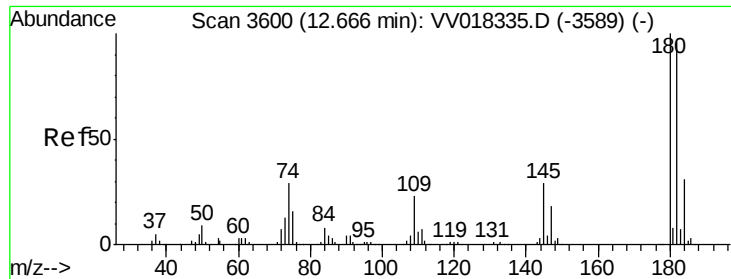
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.7  | 32.8  | 49.2  |
| 148     | 63.9  | 50.7  | 76.1  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 51.915 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 83.2  | 69.7  | 104.5 |
| 157     | 108.6 | 88.2  | 132.4 |

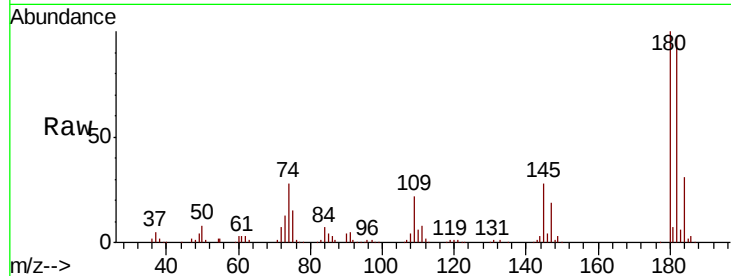




#67  
 1,3,5-Trichlorobenzene  
 Concen: 50.293 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05081

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.2  | 76.8  | 115.2 |
| 184     | 30.9  | 24.6  | 36.8  |
| 145     | 28.3  | 22.7  | 34.1  |

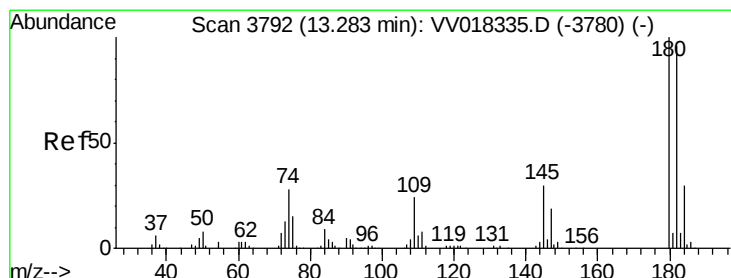
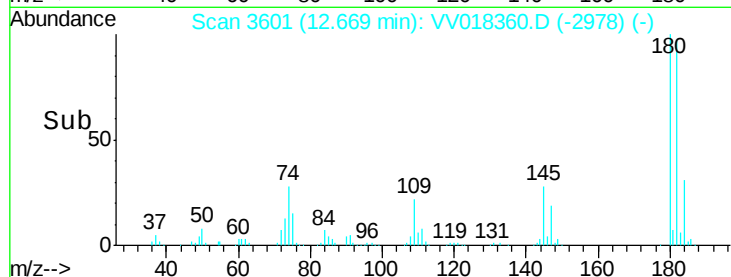
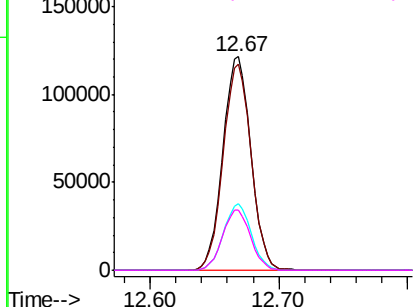


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

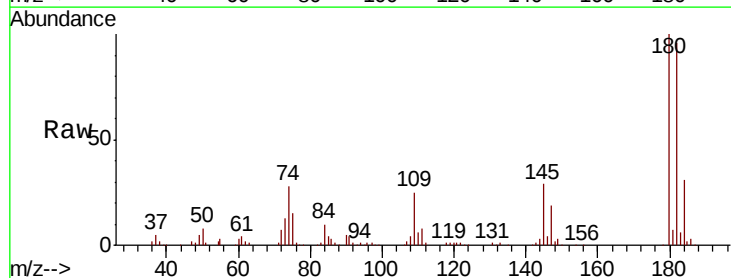
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 51.652 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. -0.00 min  
 Lab File: VV018360.D  
 Acq: 21 Sep 2020 10:39

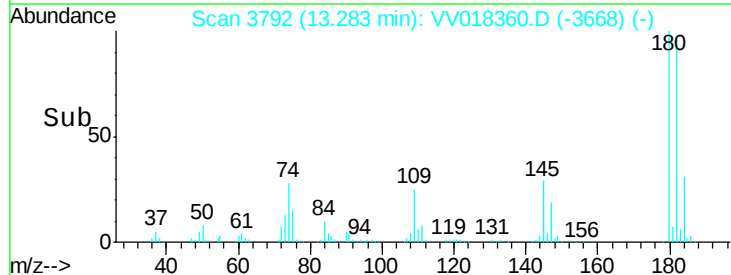
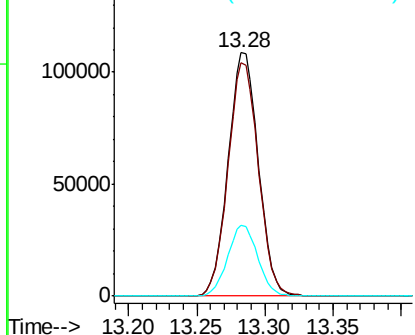
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.4  | 77.4  | 116.2 |
| 145     | 29.0  | 23.2  | 34.8  |

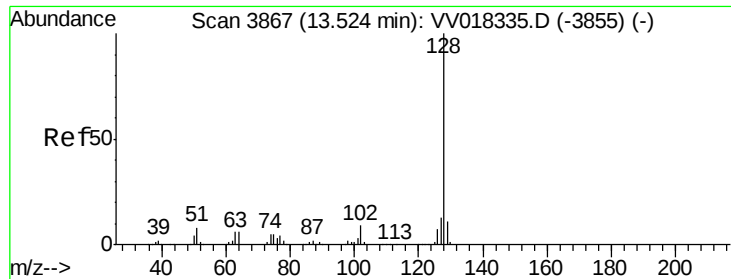


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 56.740 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05081

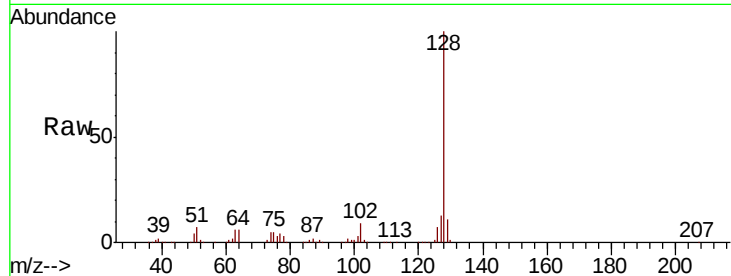
Tot Ion:128 Resp: 465259

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

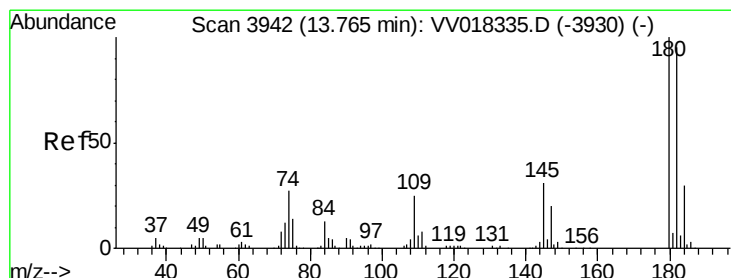
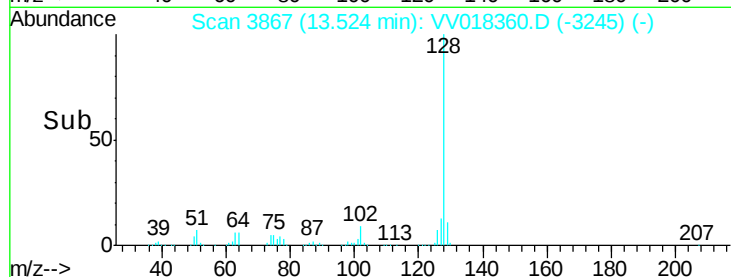
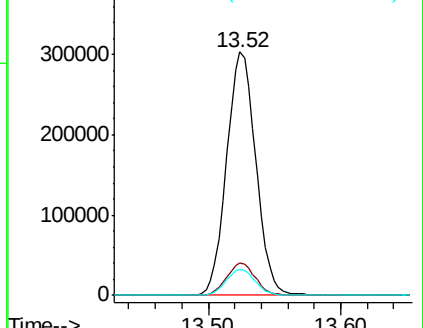
129 10.7 8.6 13.0



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: 53.313 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV018360.D

Acq: 21 Sep 2020 10:39

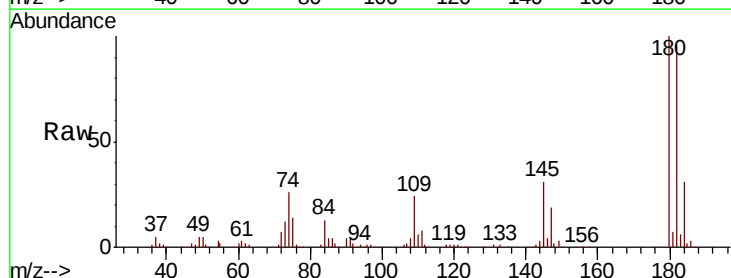
Tgt Ion:180 Resp: 170164

Ion Ratio Lower Upper

180 100

182 95.9 76.5 114.7

145 31.4 24.9 37.3



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

