

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY120420\  
 Data File : VY003659.D  
 Acq On : 04 Dec 2020 12:02  
 Operator : SY/MD  
 Sample : VSTD02580  
 Misc : 5.00G/10ML/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

Quant Time: Dec 04 12:45:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOM2YLM120420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 04 12:43:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 239182   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 230391   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 123008   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.25  | 65  | 91136  | 31.39 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.77  | 69  | 66266  | 25.96 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 3.86  | 63  | 165994 | 25.02 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 6.91  | 46  | 58892  | 45.56 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.49  | 84  | 162613 | 26.24 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.15  | 65  | 89094  | 25.74 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.12  | 84  | 350965 | 25.73 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.12  | 67  | 104304 | 26.12 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.18 | 98  | 321848 | 26.34 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.44 | 79  | 51530  | 25.87 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.79 | 63  | 51269  | 50.28 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.56 | 84  | 95080  | 27.19 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.72 | 152 | 119431 | 28.86 | ug/L | 0.00 |

## Target Compounds

|                                |       |     |        |        | Qvalue   |
|--------------------------------|-------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.91  | 85  | 70147  | 44.516 | ug/L 100 |
| 3) Chloromethane               | 2.11  | 50  | 72509  | 26.662 | ug/L 100 |
| 5) Vinyl chloride              | 2.25  | 62  | 78309  | 24.924 | ug/L 100 |
| 6) Bromomethane                | 2.66  | 94  | 52512  | 21.849 | ug/L 100 |
| 8) Chloroethane                | 2.80  | 64  | 46961  | 22.233 | ug/L 100 |
| 9) Trichlorofluoromethane      | 3.13  | 101 | 120603 | 35.644 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 3.91  | 101 | 77404  | 24.546 | ug/L 100 |
| 12) 1,1-Dichloroethene         | 3.88  | 96  | 75062  | 23.200 | ug/L 100 |
| 13) Acetone                    | 3.97  | 43  | 41834  | 44.322 | ug/L 100 |
| 14) Carbon disulfide           | 4.20  | 76  | 246561 | 23.081 | ug/L 100 |
| 15) Methyl Acetate             | 4.49  | 43  | 55828  | 23.391 | ug/L 100 |
| 16) Methylene chloride         | 4.73  | 84  | 86419  | 21.255 | ug/L 100 |
| 17) Methyl tert-butyl Ether    | 5.23  | 73  | 210528 | 36.372 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.23  | 96  | 81269  | 23.669 | ug/L 100 |
| 19) 1,1-Dichloroethane         | 6.03  | 63  | 136634 | 23.659 | ug/L 100 |
| 21) 2-Butanone                 | 7.00  | 43  | 73827  | 46.538 | ug/L 100 |
| 22) cis-1,2-Dichloroethene     | 7.00  | 96  | 87624  | 24.707 | ug/L 100 |
| 23) Bromochloromethane         | 7.34  | 128 | 42874  | 24.846 | ug/L 100 |
| 25) Chloroform                 | 7.51  | 83  | 138583 | 23.990 | ug/L 100 |
| 27) 1,2-Dichloroethane         | 8.25  | 62  | 94908  | 24.272 | ug/L 100 |
| 30) Cyclohexane                | 7.79  | 56  | 128313 | 23.487 | ug/L 100 |
| 31) 1,1,1-Trichloroethane      | 7.71  | 97  | 122961 | 24.673 | ug/L 100 |
| 32) Carbon tetrachloride       | 7.90  | 117 | 111331 | 23.728 | ug/L 100 |
| 34) Benzene                    | 8.17  | 78  | 331702 | 23.278 | ug/L 100 |
| 35) Trichloroethene            | 8.94  | 95  | 90235  | 24.632 | ug/L 100 |
| 36) Methylcyclohexane          | 9.19  | 83  | 143718 | 25.042 | ug/L 100 |
| 40) 1,2-Dichloropropane        | 9.22  | 63  | 83462  | 23.662 | ug/L 100 |
| 41) Bromodichloromethane       | 9.50  | 83  | 105969 | 23.606 | ug/L 100 |
| 42) cis-1,3-Dichloropropene    | 9.93  | 75  | 133939 | 24.134 | ug/L 100 |
| 43) 4-Methyl-2-pentanone       | 10.08 | 43  | 159283 | 52.854 | ug/L 100 |

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 ClientSampleId :  
 VSTD02579

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 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 04 12:43:00 2020  
 Response via : Initial Calibration

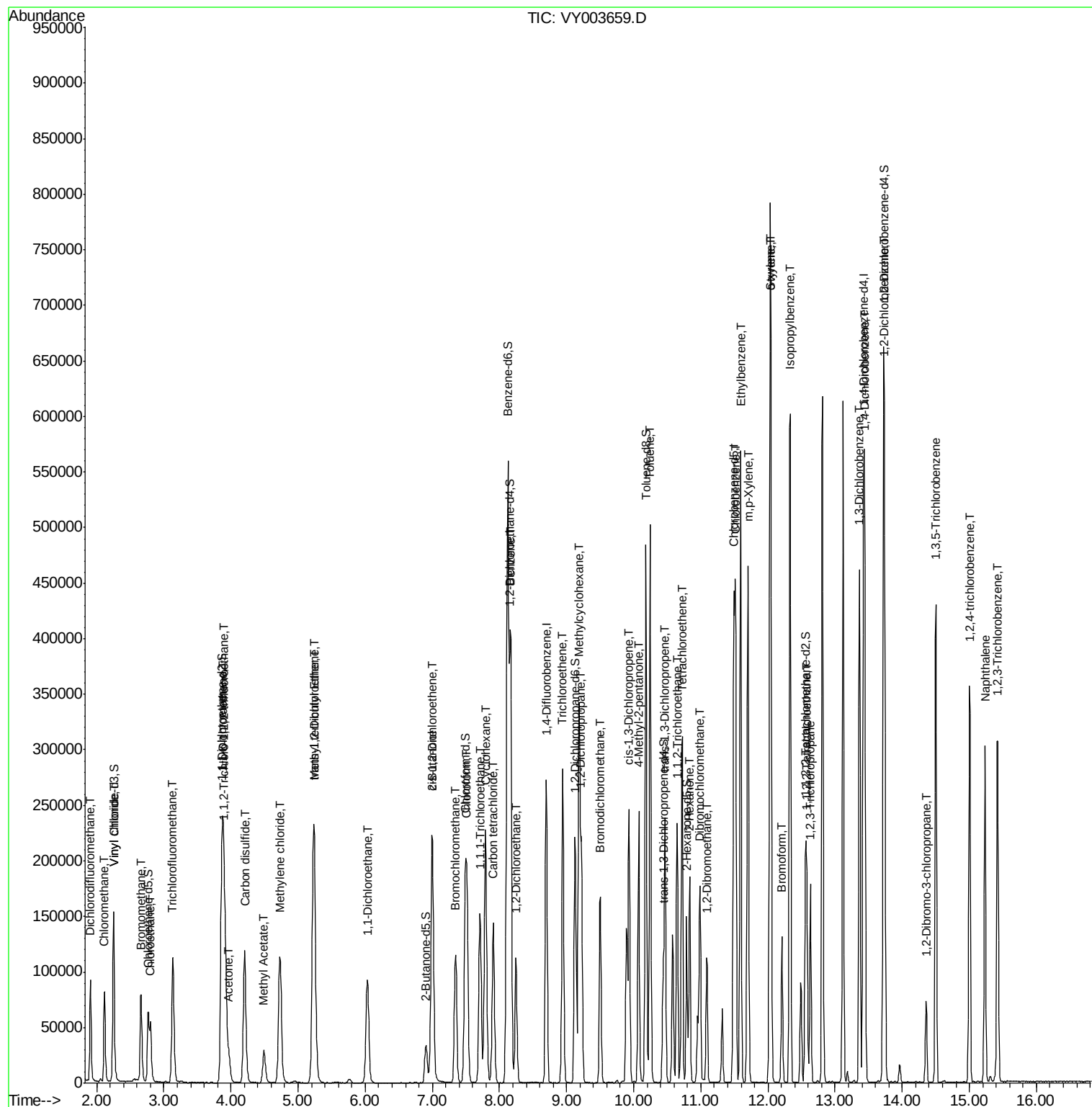
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.25 | 91   | 359096   | 23.870 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.47 | 75   | 124492   | 24.235 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.65 | 97   | 71982    | 25.215 | ug/L  | 100      |
| 47) Tetrachloroethene          | 10.72 | 164  | 71548    | 23.049 | ug/L  | 100      |
| 49) 2-Hexanone                 | 10.83 | 43   | 114225   | 48.970 | ug/L  | 100      |
| 50) Dibromochloromethane       | 10.98 | 129  | 85099    | 24.791 | ug/L  | 100      |
| 51) 1,2-Dibromoethane          | 11.09 | 107  | 70490    | 24.875 | ug/L  | 100      |
| 52) Chlorobenzene              | 11.51 | 112  | 232604   | 24.109 | ug/L  | 100      |
| 53) Ethylbenzene               | 11.59 | 91   | 385967   | 24.831 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.70 | 106  | 152938   | 25.422 | ug/L  | 100      |
| 55) o-xylene                   | 12.03 | 106  | 145096   | 28.225 | ug/L  | 100      |
| 56) Styrene                    | 12.04 | 104  | 252113   | 25.645 | ug/L  | 100      |
| 57) Isopropylbenzene           | 12.33 | 105  | 381975   | 31.677 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 78406    | 23.651 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 12.64 | 75   | 70180    | 26.407 | ug/L  | 100      |
| 62) Bromoform                  | 12.21 | 173  | 58821    | 23.892 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.36 | 146  | 185442   | 24.242 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 13.45 | 146  | 189114   | 23.931 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 13.74 | 146  | 173524   | 26.814 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 14.35 | 75   | 16010    | 28.287 | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 132603   | 30.611 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.00 | 180  | 112749   | 30.339 | ug/L  | 100      |
| 69) Naphthalene                | 15.23 | 128  | 246079   | 35.637 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 103577   | 34.926 | ug/L  | 100      |

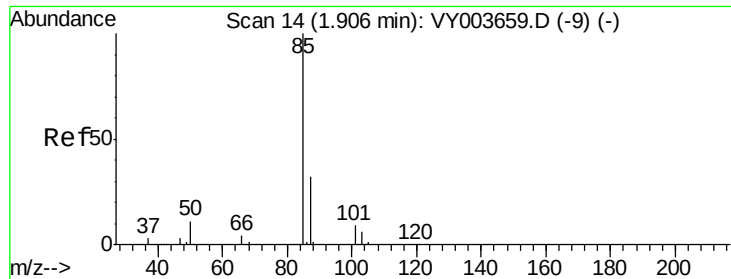
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 44.516 ug/L

RT: 1.91 min Scan# 14

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

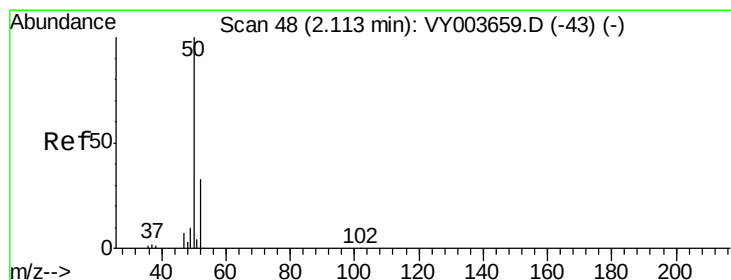
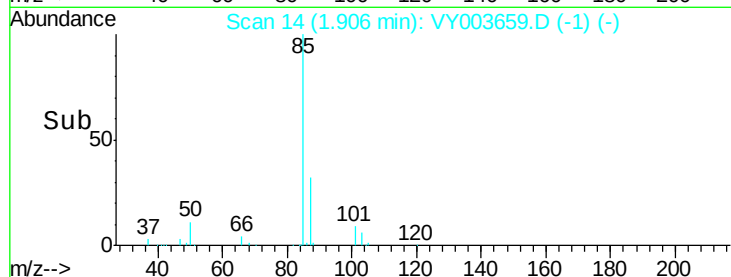
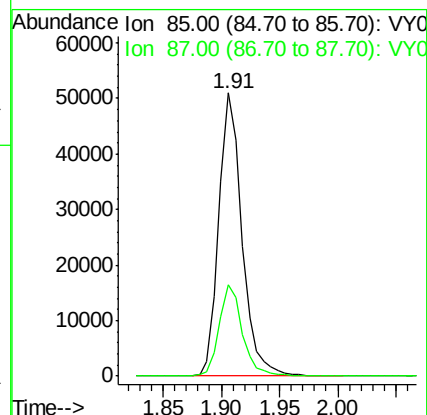
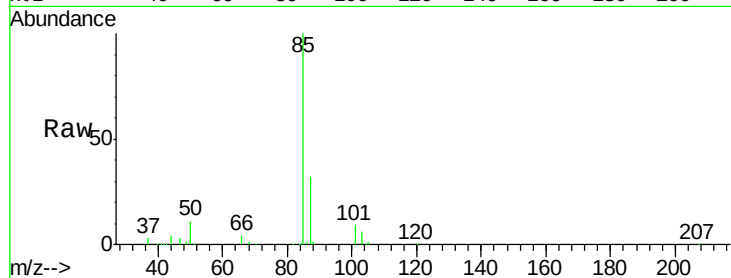
VSTD02579

Tgt Ion: 85 Resp: 70147

Ion Ratio Lower Upper

85 100

87 32.3 22.6 42.0



#3

Chloromethane

Concen: 26.662 ug/L

RT: 2.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VY003659.D

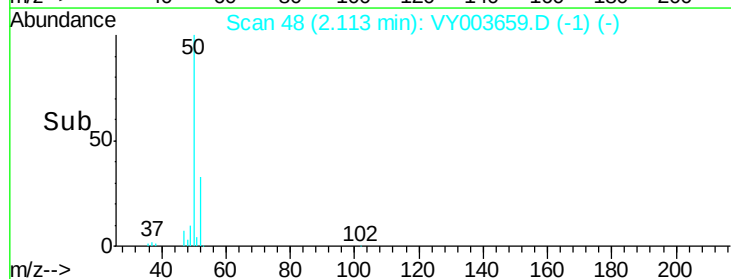
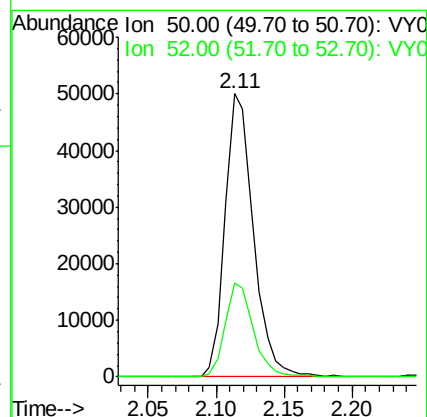
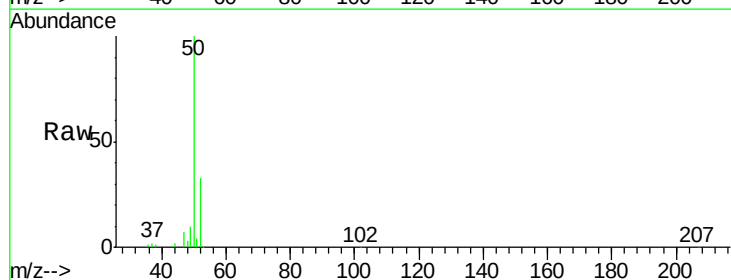
Acq: 04 Dec 2020 12:02

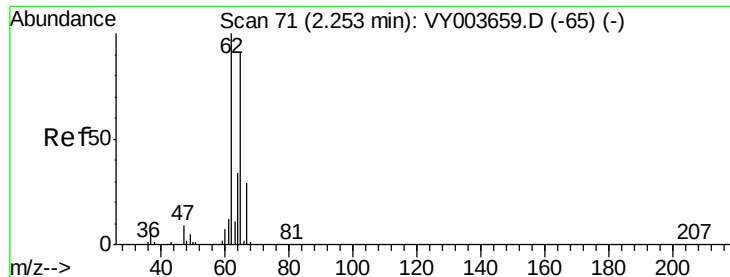
Tgt Ion: 50 Resp: 72509

Ion Ratio Lower Upper

50 100

52 33.0 23.1 42.9





#5

Vinyl chloride

Concen: 24.924 ug/L

RT: 2.25 min Scan# 71

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

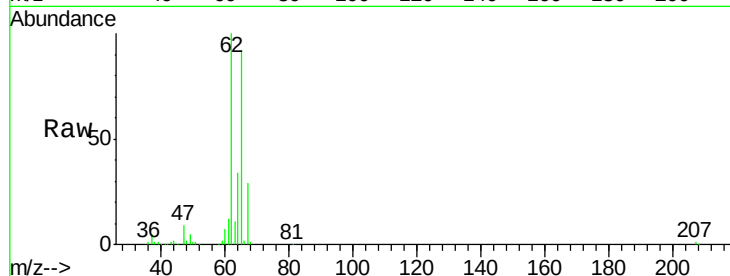
VSTD02579

Tgt Ion: 62 Resp: 78309

Ion Ratio Lower Upper

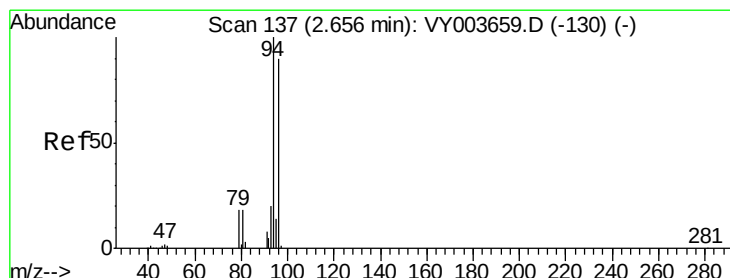
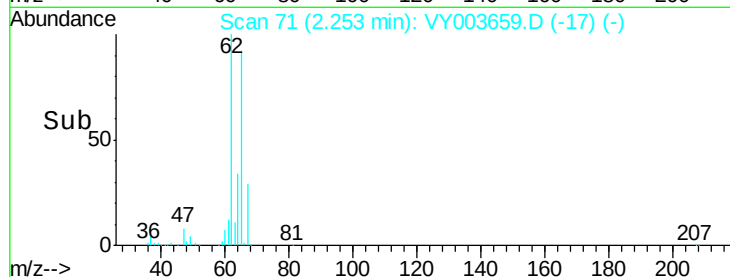
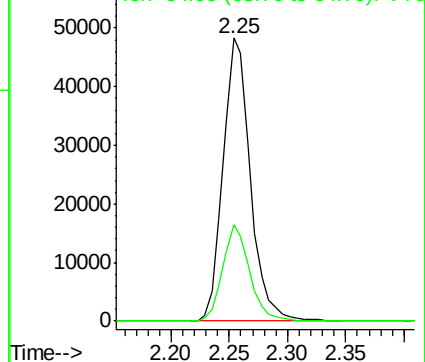
62 100

64 34.0 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 21.849 ug/L

RT: 2.66 min Scan# 137

Delta R.T. 0.00 min

Lab File: VY003659.D

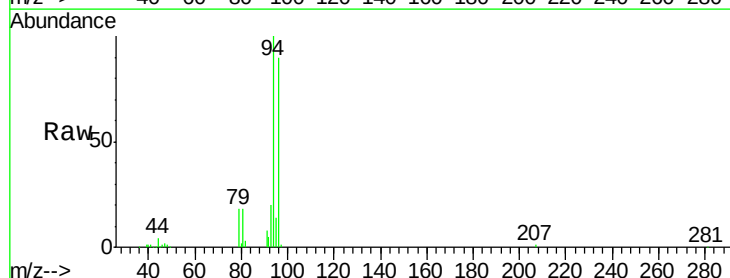
Acq: 04 Dec 2020 12:02

Tgt Ion: 94 Resp: 52512

Ion Ratio Lower Upper

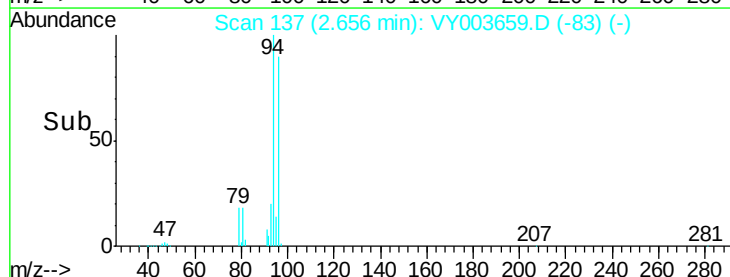
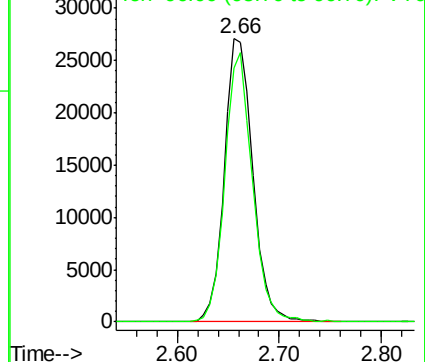
94 100

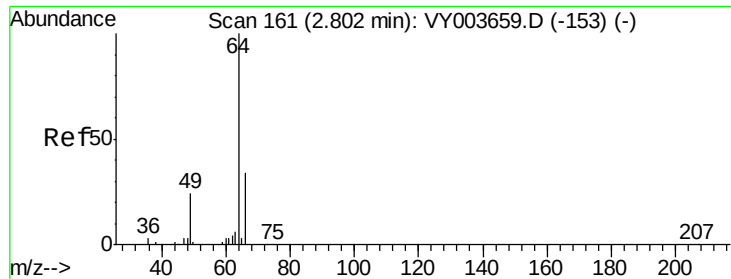
96 91.9 9.2 174.6



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0

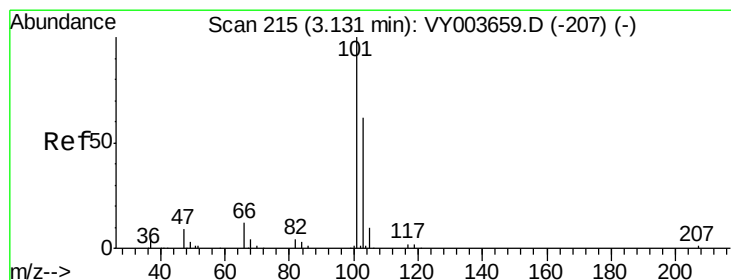
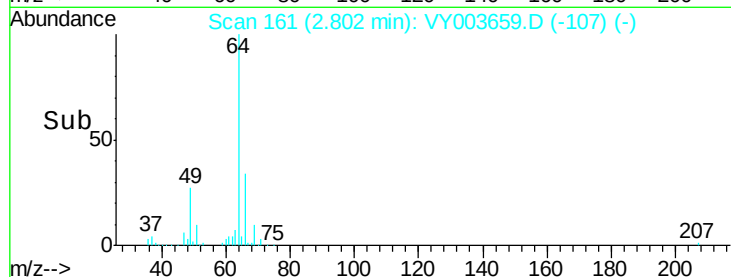
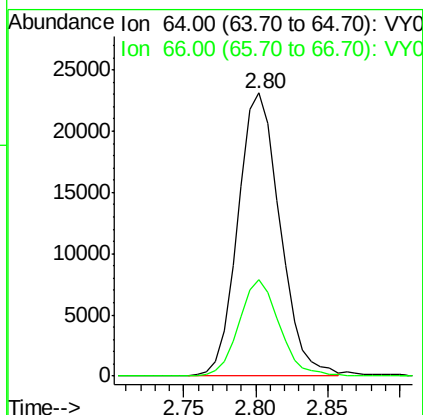
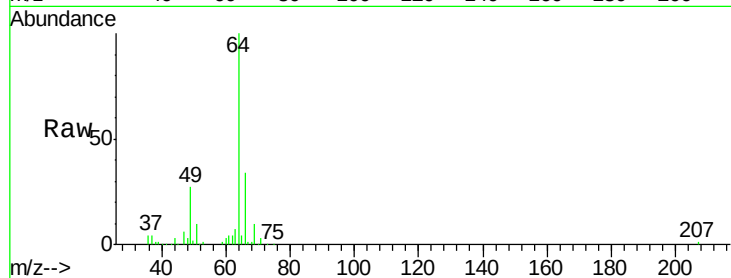




#8  
 Chloroethane  
 Concen: 22.233 ug/L  
 RT: 2.80 min Scan# 161  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

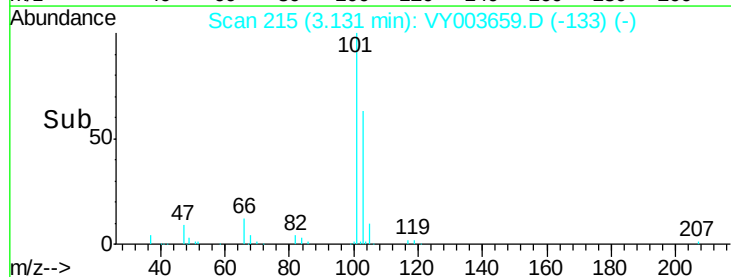
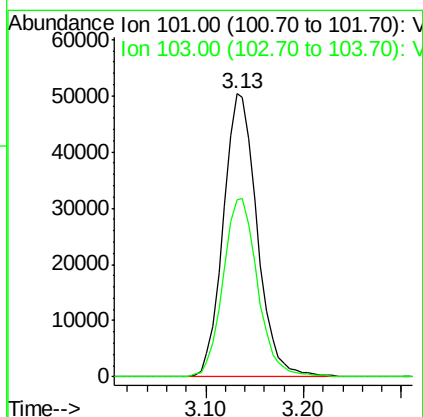
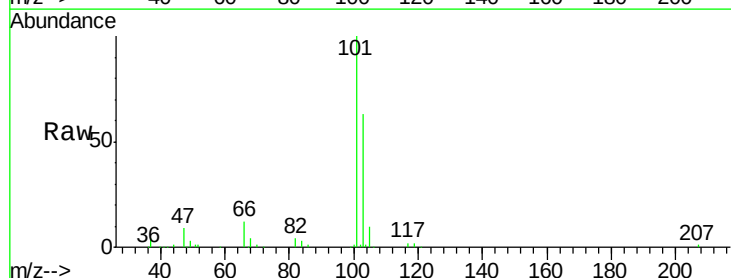
Instrument :  
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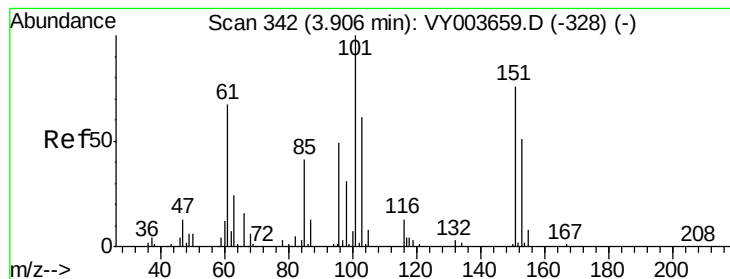
Tgt Ion: 64 Resp: 46961  
 Ion Ratio Lower Upper  
 64 100  
 66 34.0 23.8 44.2



#9  
 Trichlorofluoromethane  
 Concen: 35.644 ug/L  
 RT: 3.13 min Scan# 215  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion: 101 Resp: 120603  
 Ion Ratio Lower Upper  
 101 100  
 103 64.4 45.1 83.7





#11

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

Concen: 24.546 ug/L

RT: 3.91 min Scan# 342

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02579

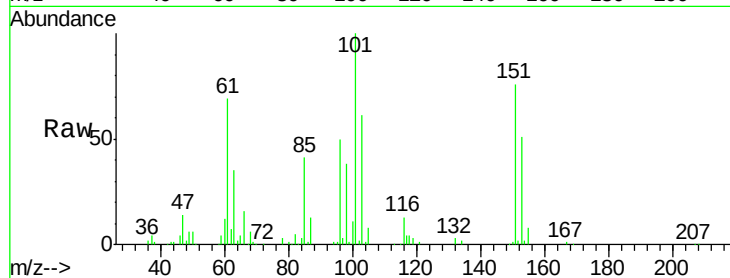
Tgt Ion:101 Resp: 77404

Ion Ratio Lower Upper

101 100

85 42.4 33.9 50.9

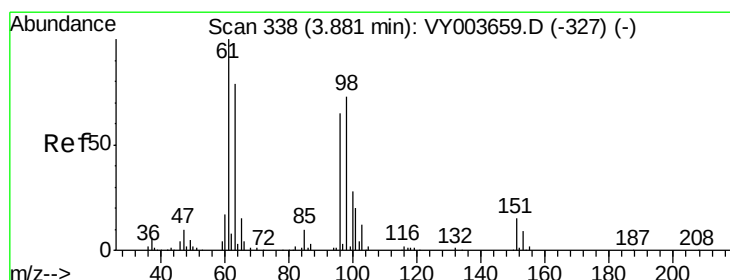
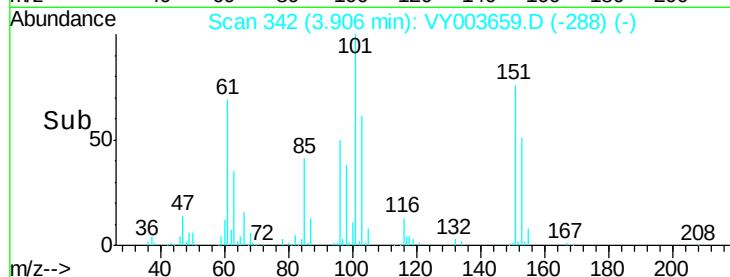
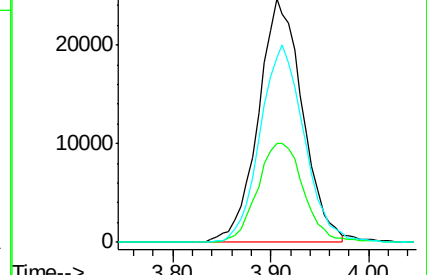
151 81.2 65.0 97.4



Abundance Ion 101.00 (100.70 to 101.70): VY003659.D (-328) (-)

Ion 85.00 (84.70 to 85.70): VY003659.D (-328) (-)

Ion 151.00 (150.70 to 151.70): VY003659.D (-328) (-)



#12

1,1-Dichloroethene

Concen: 23.200 ug/L

RT: 3.88 min Scan# 338

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

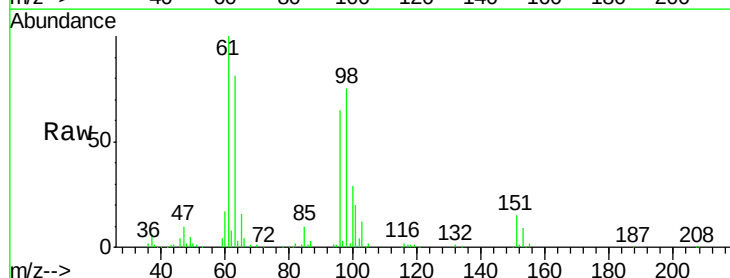
Tgt Ion: 96 Resp: 75062

Ion Ratio Lower Upper

96 100

61 155.0 108.5 201.5

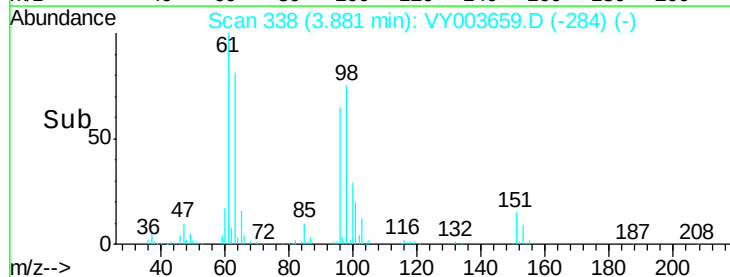
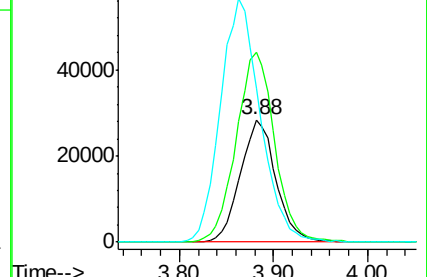
63 125.4 87.8 163.0

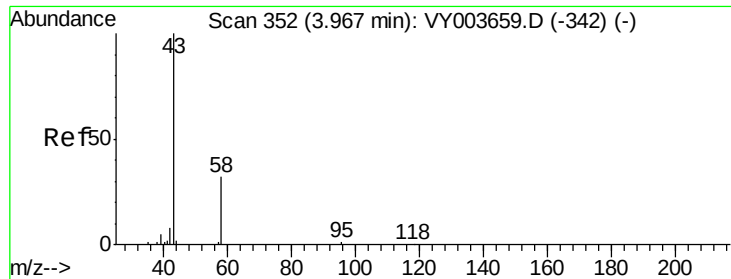


Abundance Ion 96.00 (95.70 to 96.70): VY003659.D (-327) (-)

Ion 61.00 (60.70 to 61.70): VY003659.D (-327) (-)

Ion 63.00 (62.70 to 63.70): VY003659.D (-327) (-)

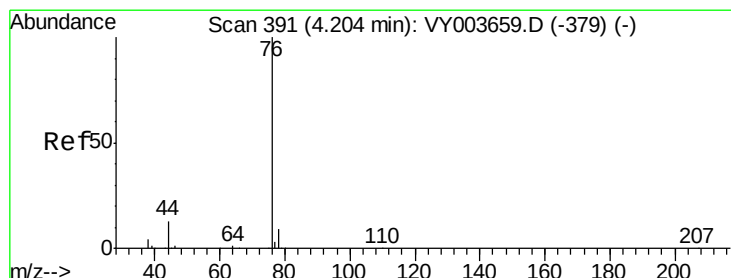
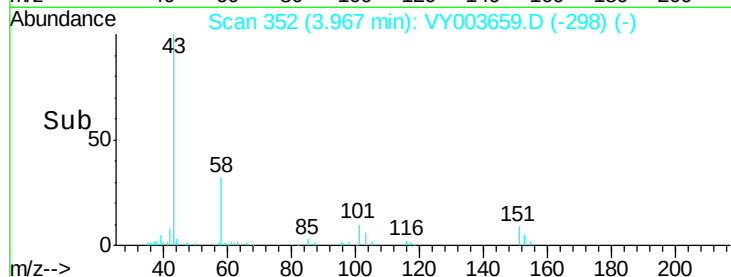
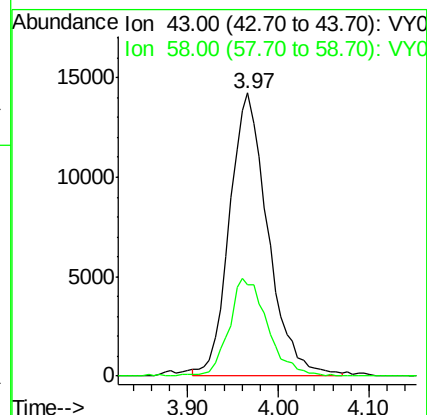
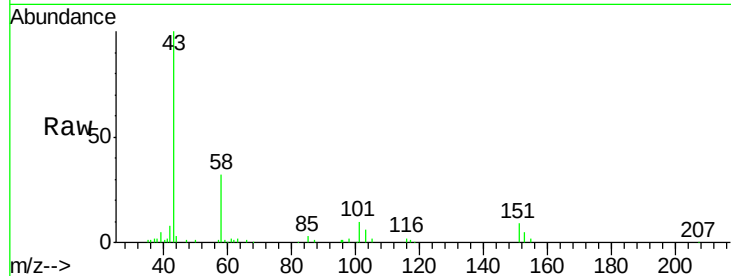




#13  
Acetone  
Concen: 44.322 ug/L  
RT: 3.97 min Scan# 352  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

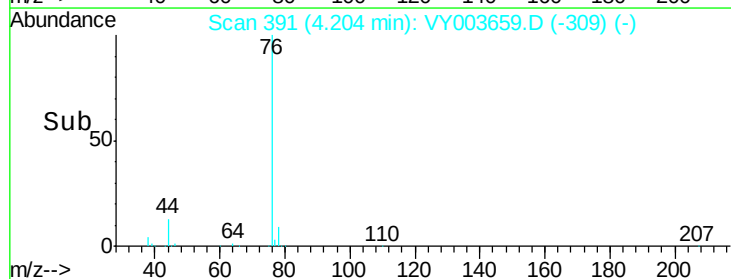
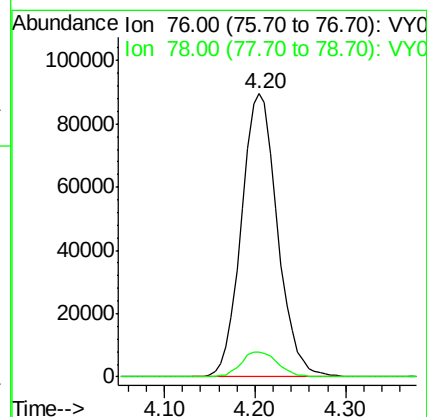
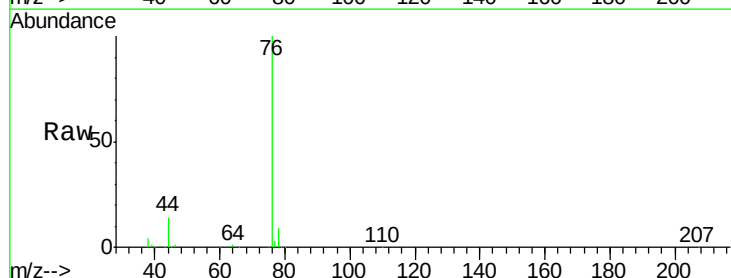
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02579

Tgt Ion: 43 Resp: 41834  
Ion Ratio Lower Upper  
43 100  
58 34.4 0.0 68.8

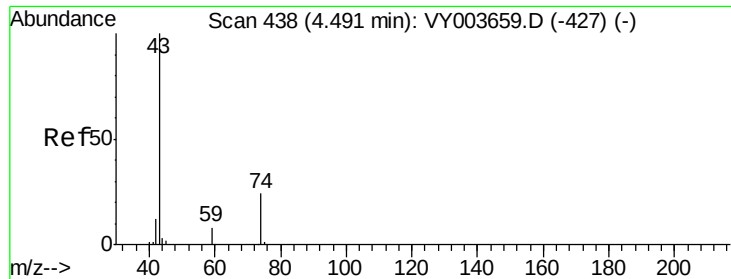


#14  
Carbon disulfide  
Concen: 23.081 ug/L  
RT: 4.20 min Scan# 391  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Tgt Ion: 76 Resp: 246561  
Ion Ratio Lower Upper  
76 100  
78 8.8 7.0 10.6







#15

Methyl Acetate

Concen: 23.391 ug/L

RT: 4.49 min Scan# 438

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

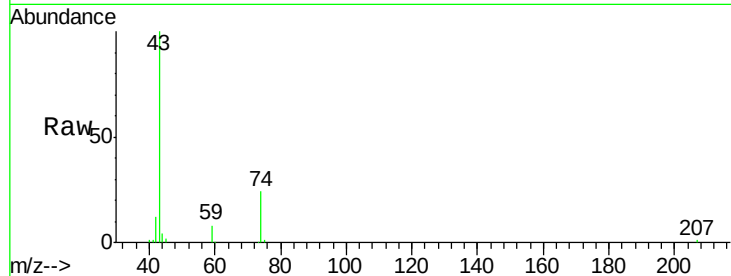
VSTD02579

Tgt Ion: 43 Resp: 55828

Ion Ratio Lower Upper

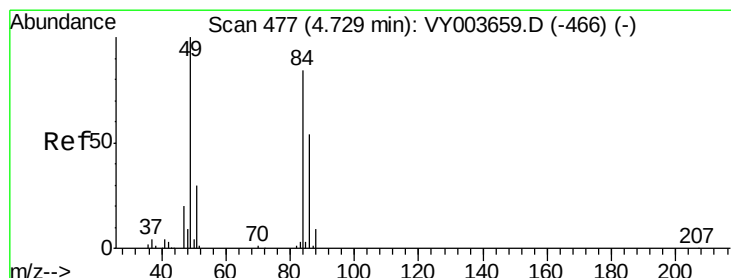
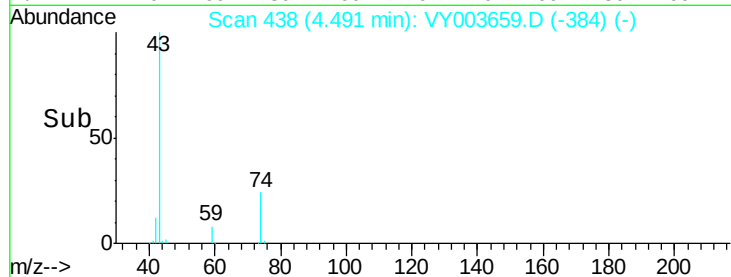
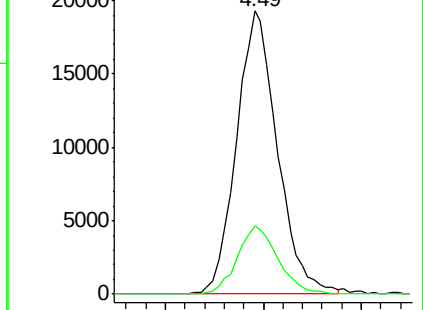
43 100

74 24.0 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VY003659.D (-427) (-)

Ion 74.00 (73.70 to 74.70): VY003659.D (-427) (-)



#16

Methylene chloride

Concen: 21.255 ug/L

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

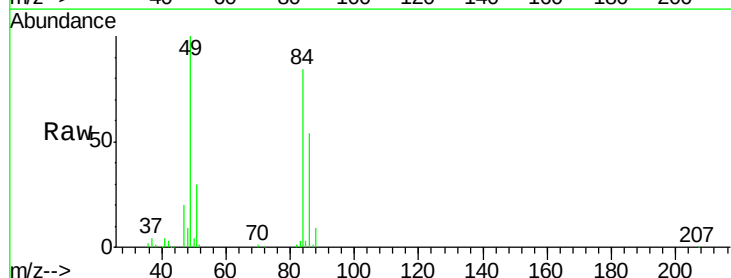
Tgt Ion: 84 Resp: 86419

Ion Ratio Lower Upper

84 100

49 119.5 83.7 155.4

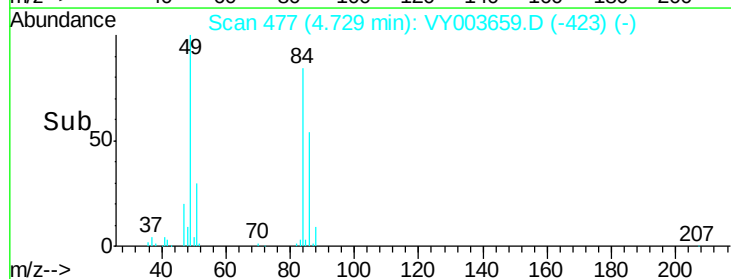
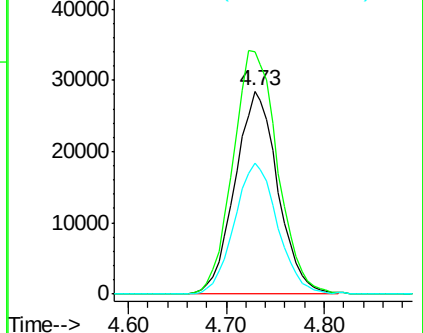
86 64.3 45.0 83.6

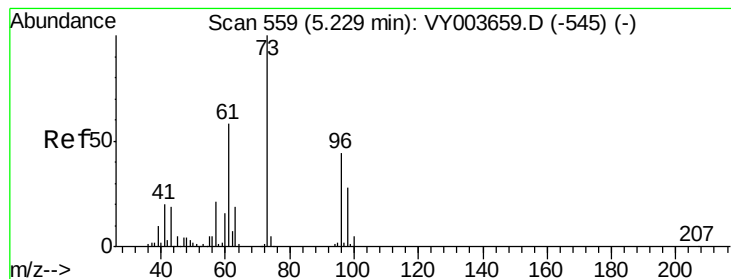


Abundance Ion 84.00 (83.70 to 84.70): VY003659.D (-466) (-)

Ion 49.00 (48.70 to 49.70): VY003659.D (-466) (-)

Ion 86.00 (85.70 to 86.70): VY003659.D (-466) (-)





#17

Methyl tert-butyl Ether

Concen: 36.372 ug/L

RT: 5.23 min Scan# 559

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02579

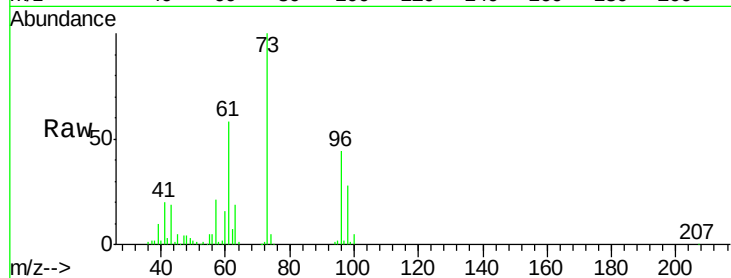
Tgt Ion: 73 Resp: 210528

Ion Ratio Lower Upper

73 100

43 18.6 14.9 22.3

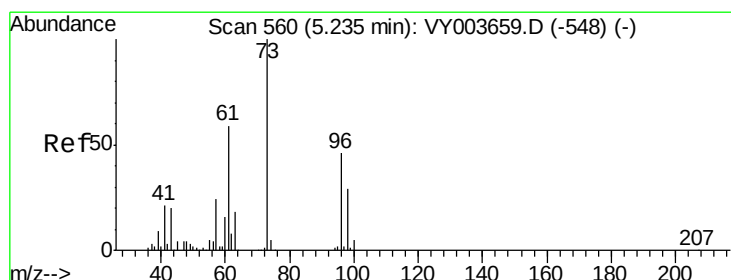
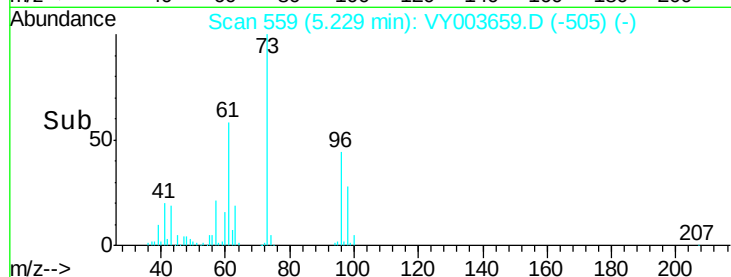
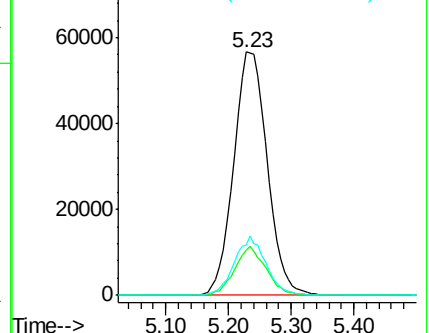
57 22.6 18.1 27.1



Abundance Ion 73.00 (72.70 to 73.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 57.00 (56.70 to 57.70): VY0



#18

trans-1,2-Dichloroethene

Concen: 23.669 ug/L

RT: 5.23 min Scan# 560

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

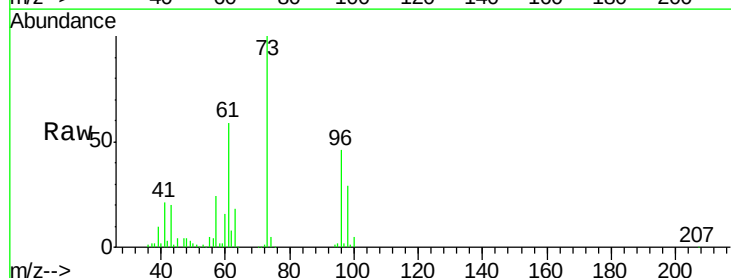
Tgt Ion: 96 Resp: 81269

Ion Ratio Lower Upper

96 100

61 129.7 90.8 168.6

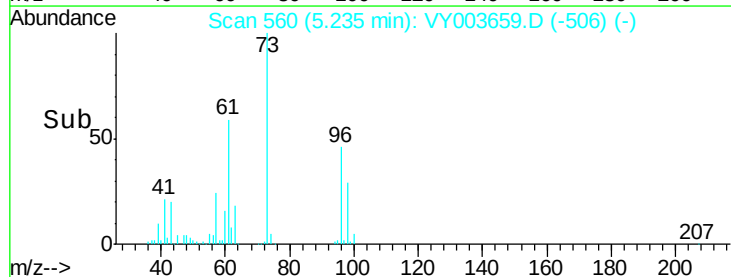
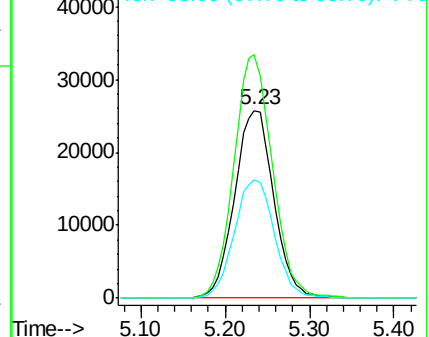
98 63.1 44.2 82.0

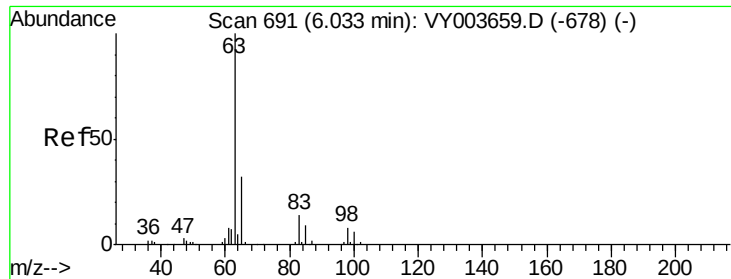


Abundance Ion 96.00 (95.70 to 96.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

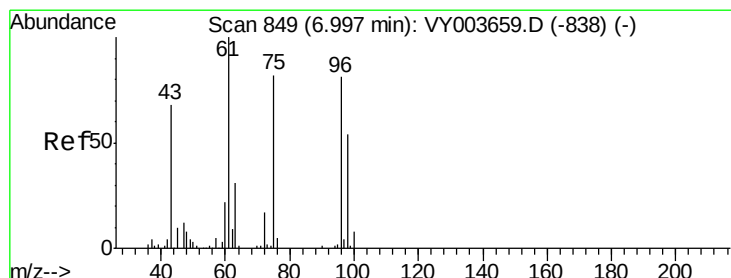
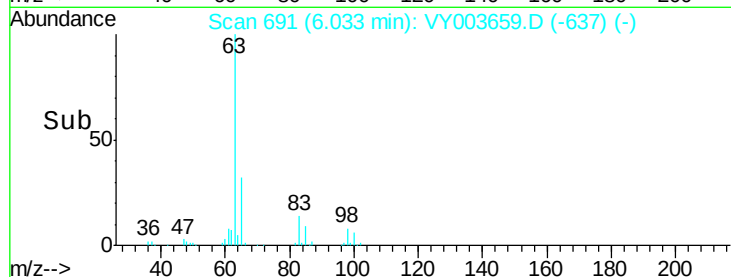
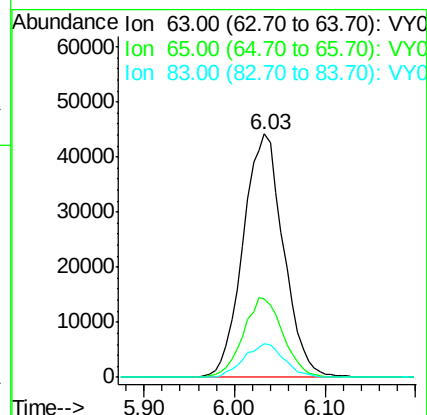
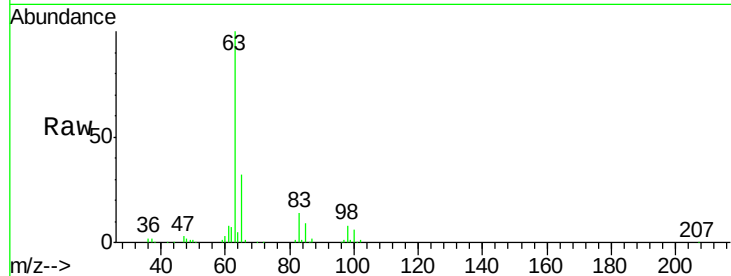




#19  
 1,1-Dichloroethane  
 Concen: 23.659 ug/L  
 RT: 6.03 min Scan# 691  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

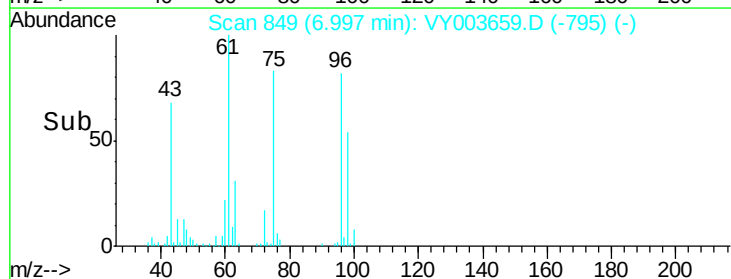
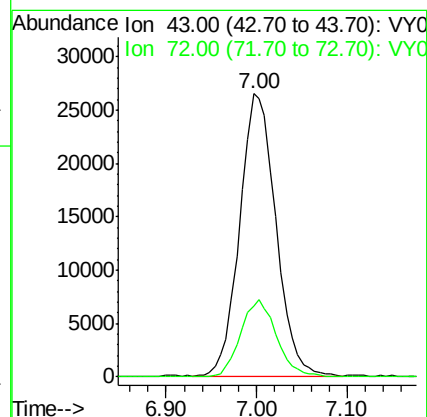
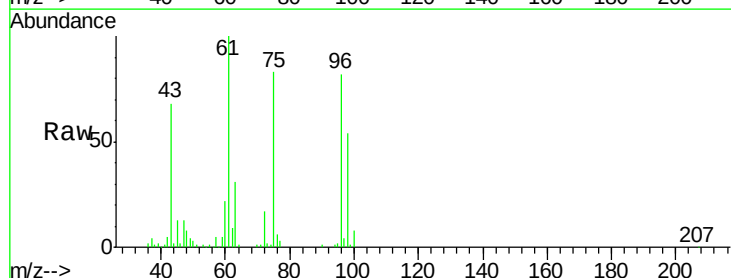
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

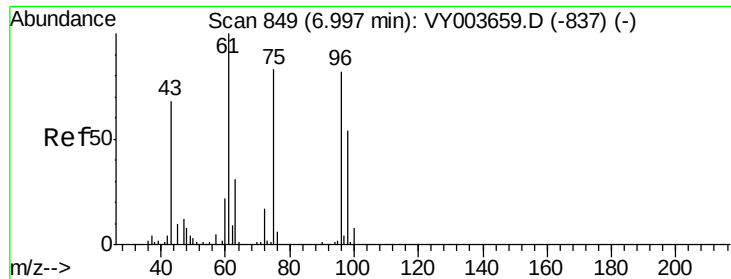
Tgt Ion: 63 Resp: 136634  
 Ion Ratio Lower Upper  
 63 100  
 65 32.4 22.7 42.1  
 83 13.8 9.7 17.9



#21  
 2-Butanone  
 Concen: 46.538 ug/L  
 RT: 7.00 min Scan# 849  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion: 43 Resp: 73827  
 Ion Ratio Lower Upper  
 43 100  
 72 26.6 13.3 39.9



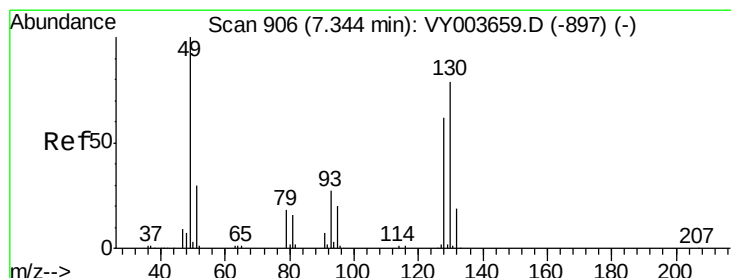
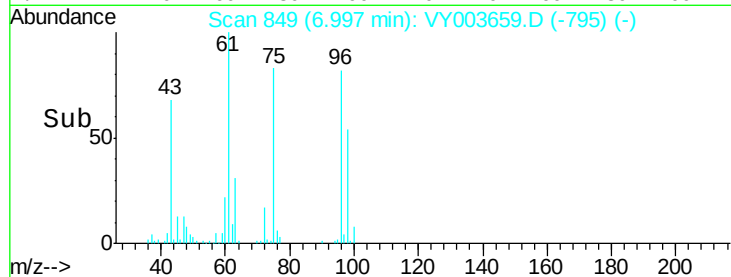
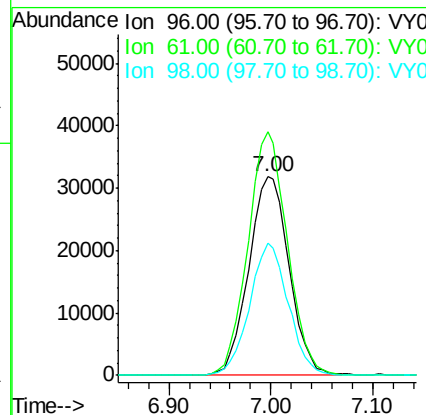
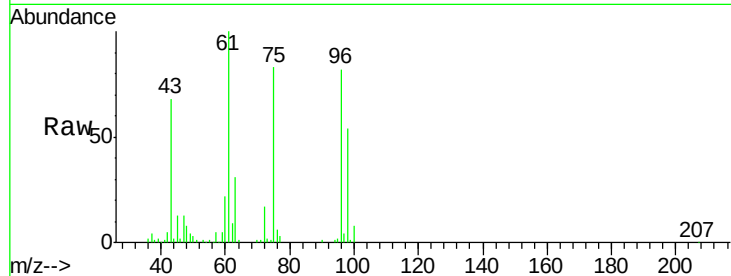


#22

cis-1,2-Dichloroethene  
 Concen: 24.707 ug/L  
 RT: 7.00 min Scan# 849  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

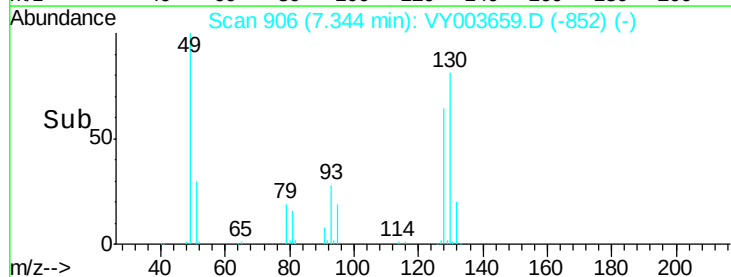
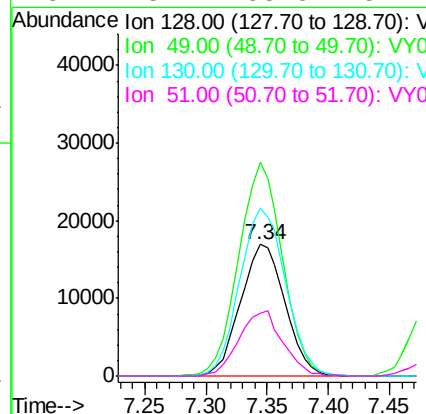
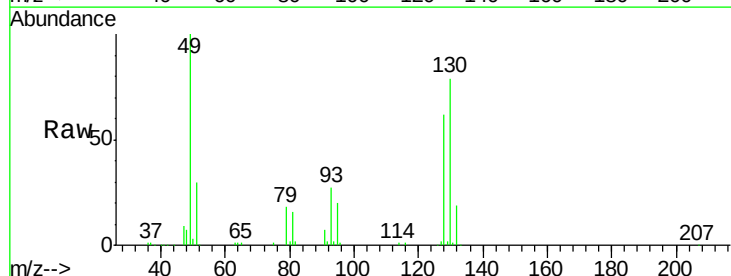
Tgt Ion: 96 Resp: 87624  
 Ion Ratio Lower Upper  
 96 100  
 61 122.6 85.8 159.4  
 98 66.4 46.5 86.3

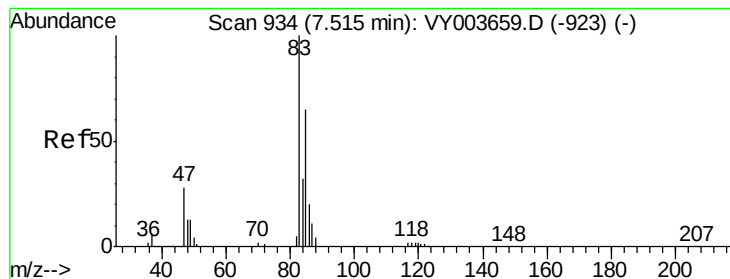


#23

Bromochloromethane  
 Concen: 24.846 ug/L  
 RT: 7.34 min Scan# 906  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion: 128 Resp: 42874  
 Ion Ratio Lower Upper  
 128 100  
 49 162.5 113.8 211.3  
 130 128.1 89.7 166.5  
 51 48.1 38.5 57.7





#25

Chloroform

Concen: 23.990 ug/L

RT: 7.51 min Scan# 934

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

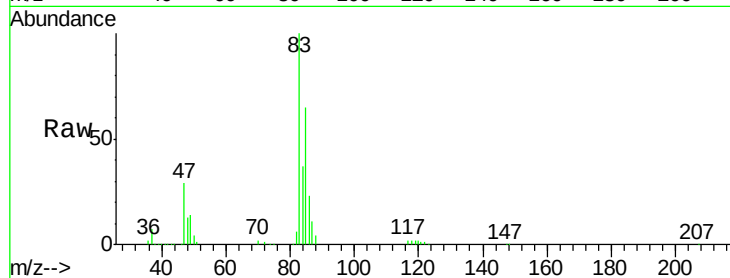
VSTD02579

Tgt Ion: 83 Resp: 138583

Ion Ratio Lower Upper

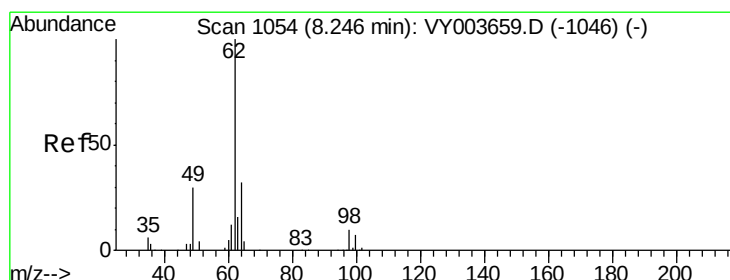
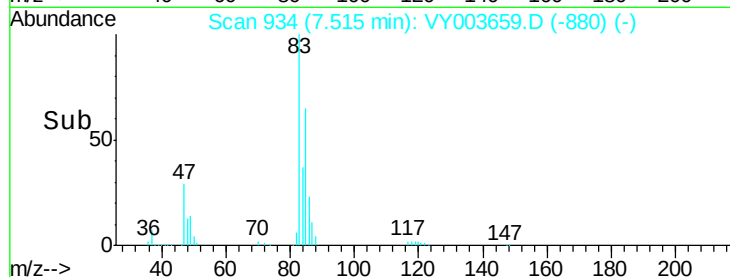
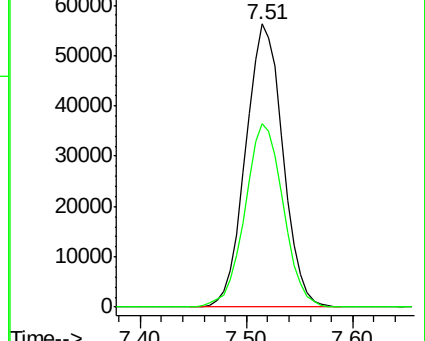
83 100

85 66.5 46.5 86.5



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0



#27

1,2-Dichloroethane

Concen: 24.272 ug/L

RT: 8.25 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VY003659.D

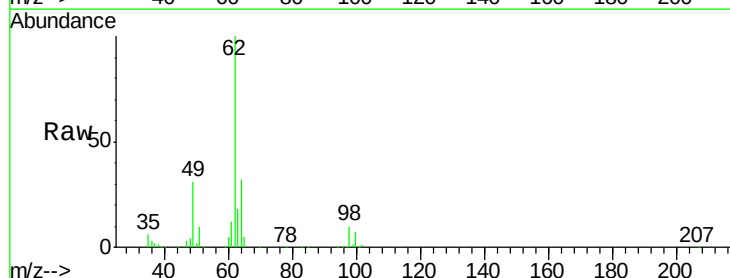
Acq: 04 Dec 2020 12:02

Tgt Ion: 62 Resp: 94908

Ion Ratio Lower Upper

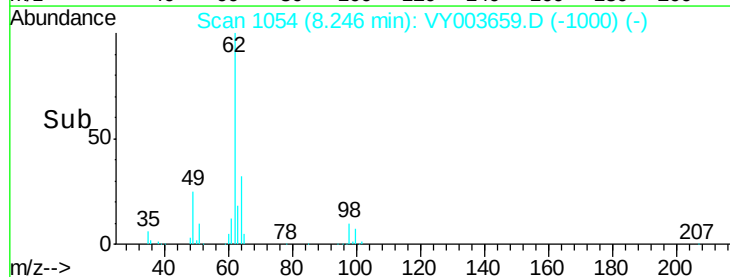
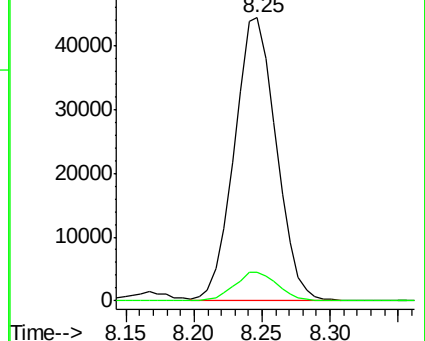
62 100

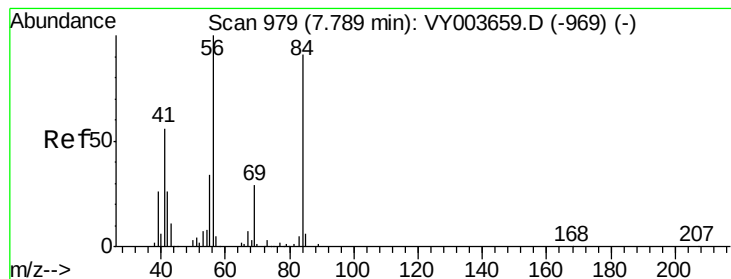
98 10.0 8.0 12.0



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#30

Cyclohexane

Concen: 23.487 ug/L

RT: 7.79 min Scan# 979

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02579

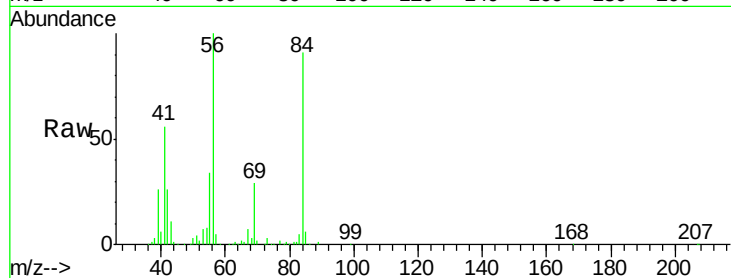
Tgt Ion: 56 Resp: 128313

Ion Ratio Lower Upper

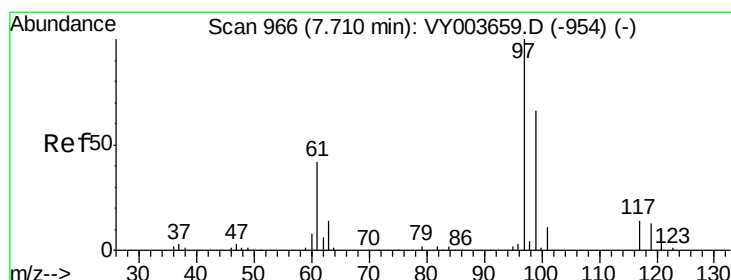
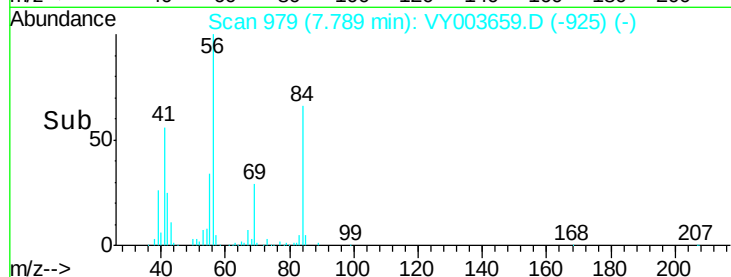
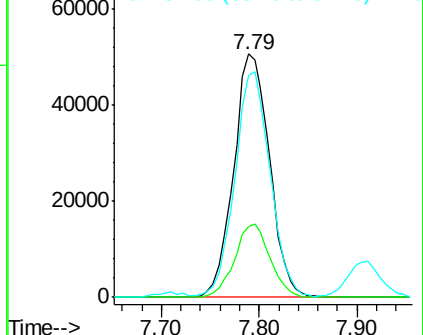
56 100

69 29.8 23.8 35.8

84 91.5 73.2 109.8



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#31

1,1,1-Trichloroethane

Concen: 24.673 ug/L

RT: 7.71 min Scan# 966

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

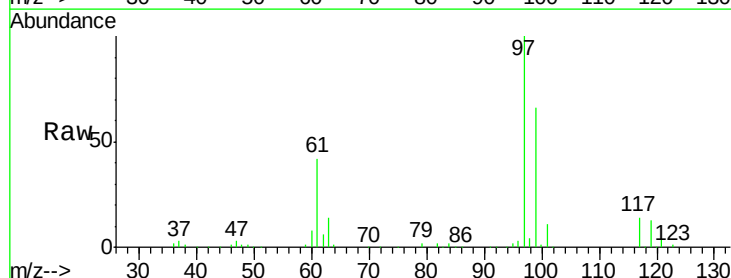
Tgt Ion: 97 Resp: 122961

Ion Ratio Lower Upper

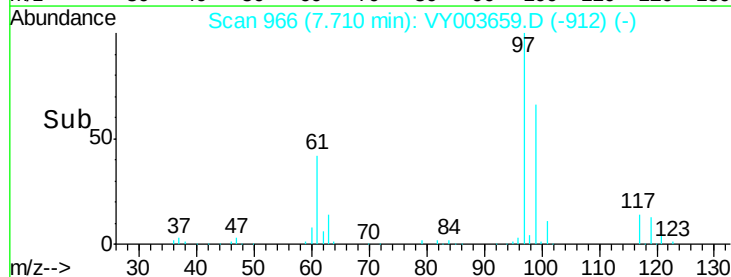
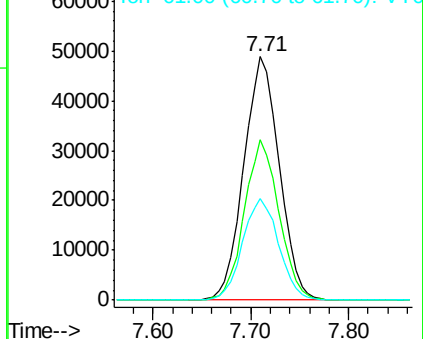
97 100

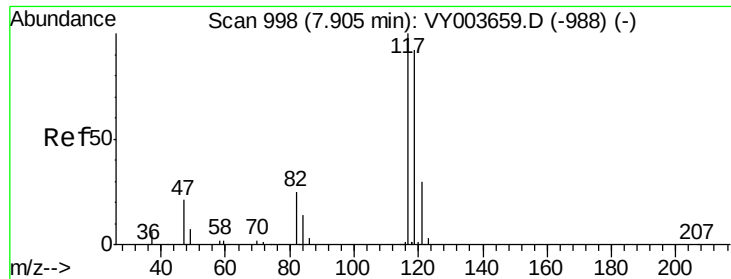
99 64.2 51.4 77.0

61 42.5 34.0 51.0



Abundance Ion 97.00 (96.70 to 97.70): VY0  
Ion 99.00 (98.70 to 99.70): VY0  
Ion 61.00 (60.70 to 61.70): VY0



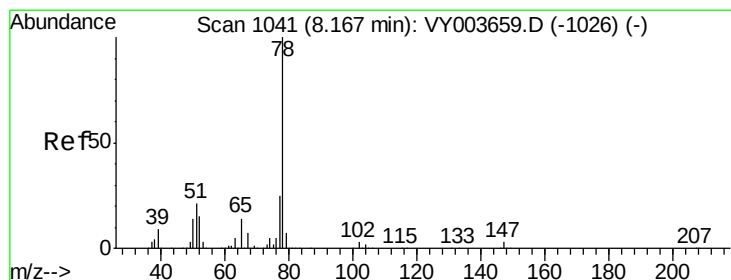
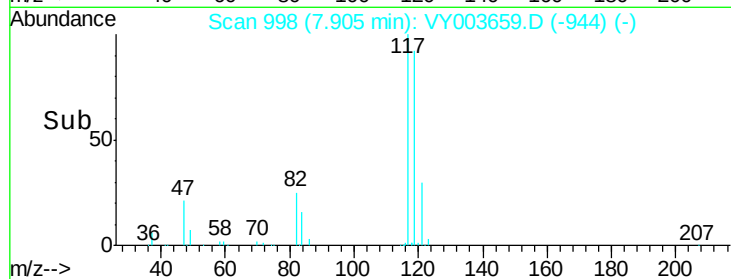
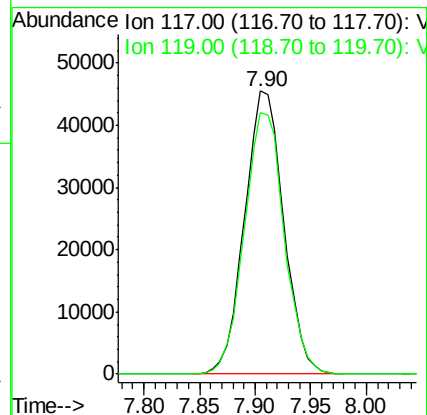
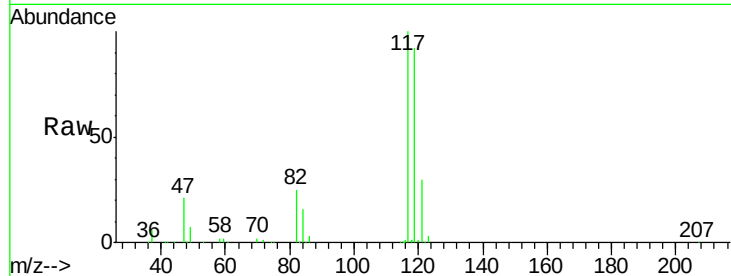


#32

Carbon tetrachloride  
Concen: 23.728 ug/L  
RT: 7.90 min Scan# 998  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02579

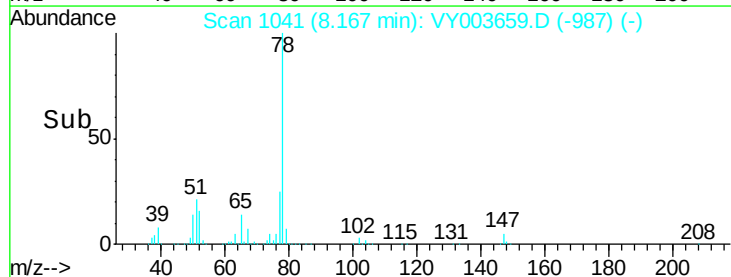
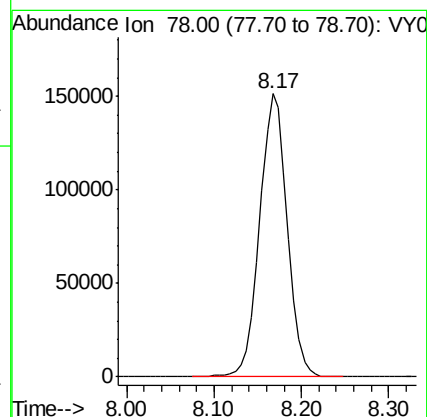
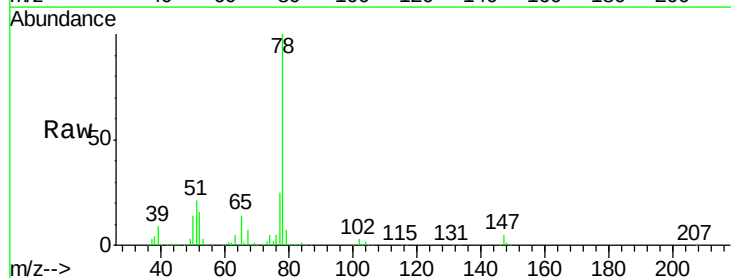
Tgt Ion:117 Resp: 111331  
Ion Ratio Lower Upper  
117 100  
119 94.2 75.4 113.0

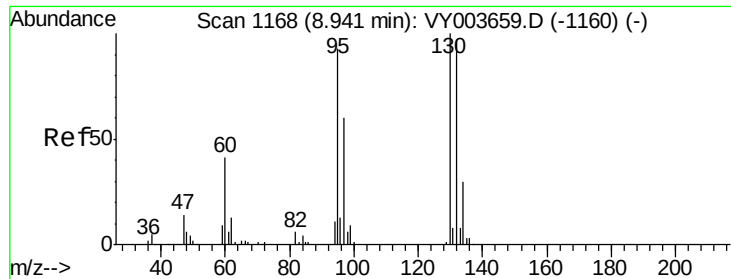


#34

Benzene  
Concen: 23.278 ug/L  
RT: 8.17 min Scan# 1041  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Tgt Ion: 78 Resp: 331702

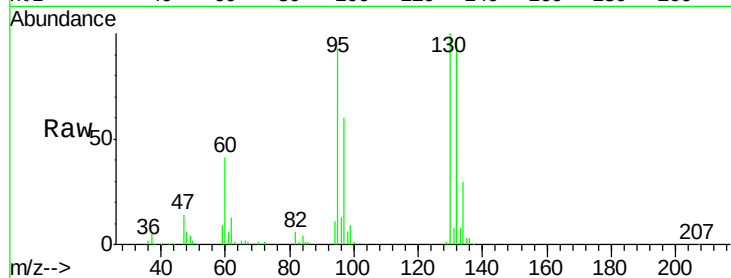




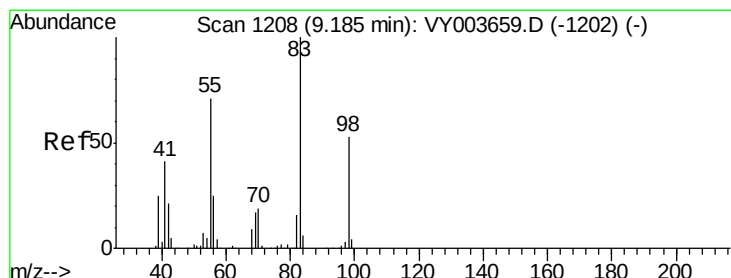
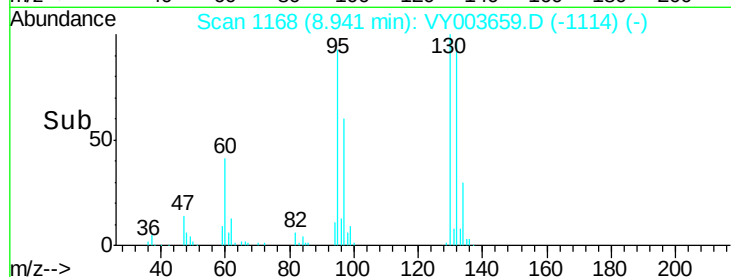
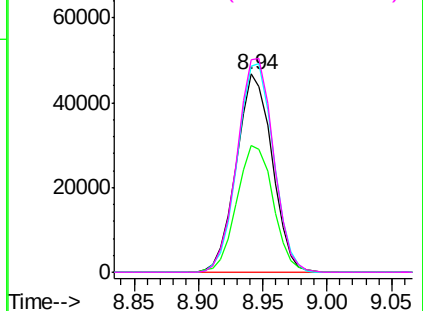
#35  
 Trichloroethene  
 Concen: 24.632 ug/L  
 RT: 8.94 min Scan# 1168  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 90235 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 65.4  | 45.8  | 85.0  |
| 132      | 106.0 | 74.2  | 137.8 |
| 130      | 108.9 | 76.2  | 141.6 |

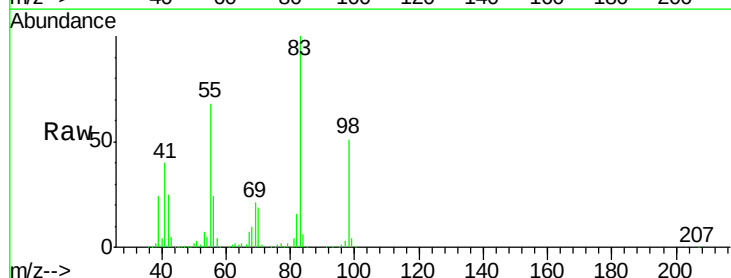


Abundance Ion 95.00 (94.70 to 95.70): VY0  
 Ion 97.00 (96.70 to 97.70): VY0  
 Ion 132.00 (131.70 to 132.70): VY0  
 Ion 130.00 (129.70 to 130.70): VY0

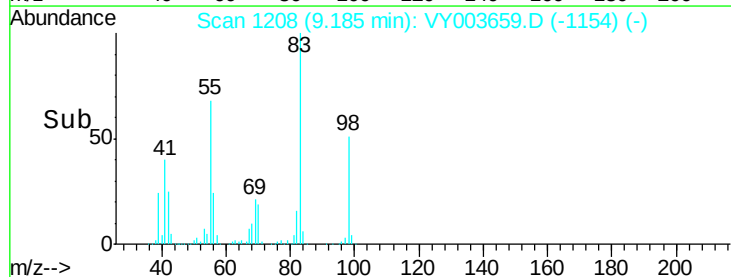
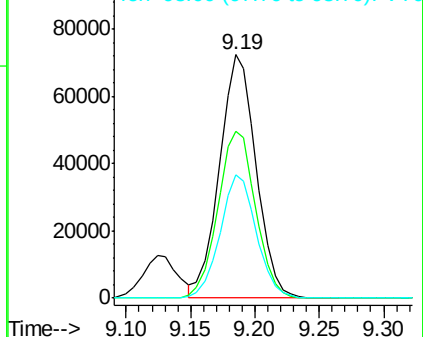


#36  
 Methylcyclohexane  
 Concen: 25.042 ug/L  
 RT: 9.19 min Scan# 1208  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

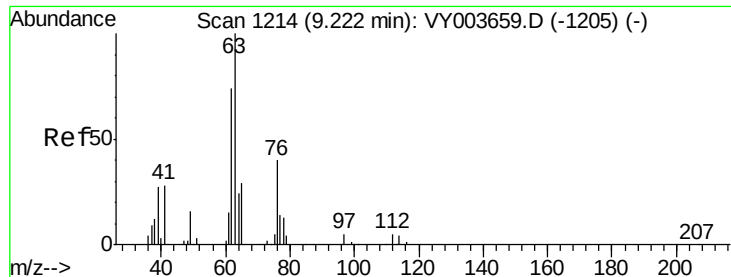
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 143718 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 70.5  | 56.4  | 84.6   |
| 98       | 50.4  | 40.3  | 60.5   |



Abundance Ion 83.00 (82.70 to 83.70): VY0  
 Ion 55.00 (54.70 to 55.70): VY0  
 Ion 98.00 (97.70 to 98.70): VY0







#40

1,2-Dichloropropane

Concen: 23.662 ug/L

RT: 9.22 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

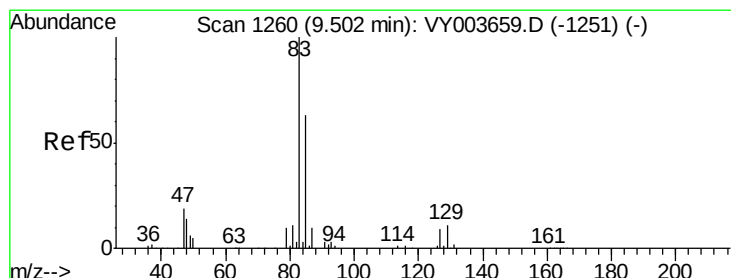
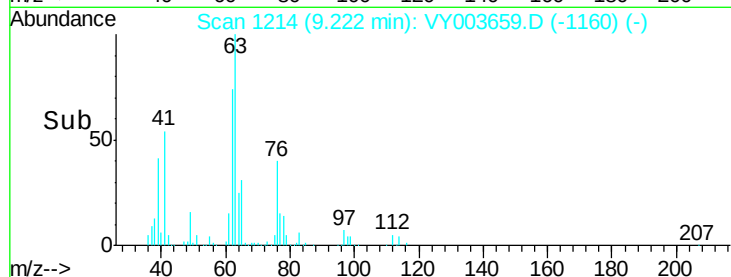
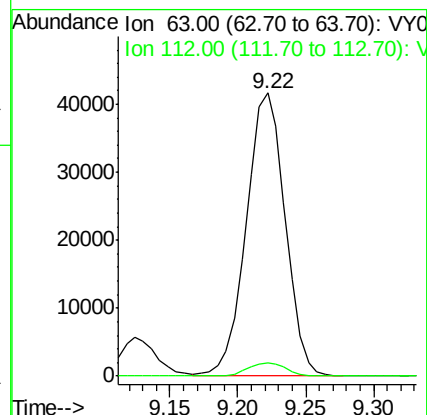
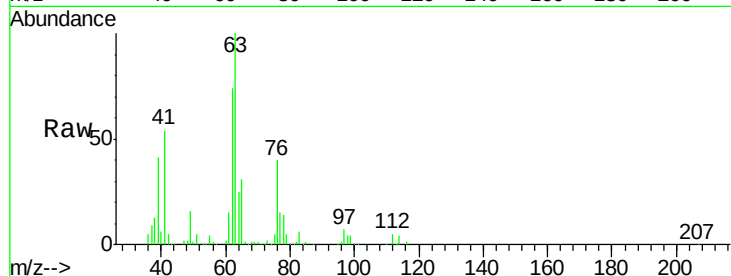
VSTD02579

Tgt Ion: 63 Resp: 83462

Ion Ratio Lower Upper

63 100

112 4.6 3.7 5.5



#41

Bromodichloromethane

Concen: 23.606 ug/L

RT: 9.50 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

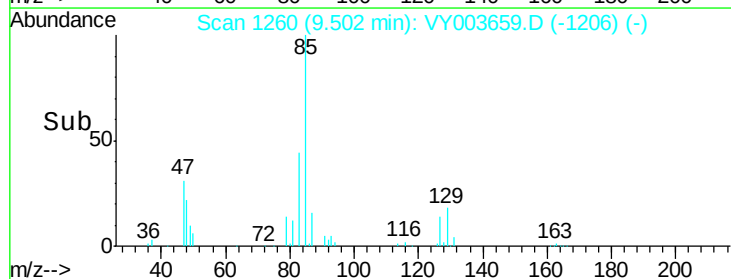
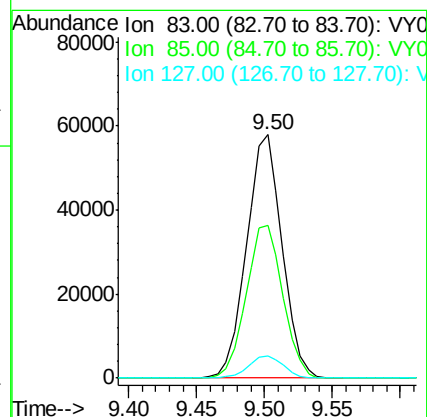
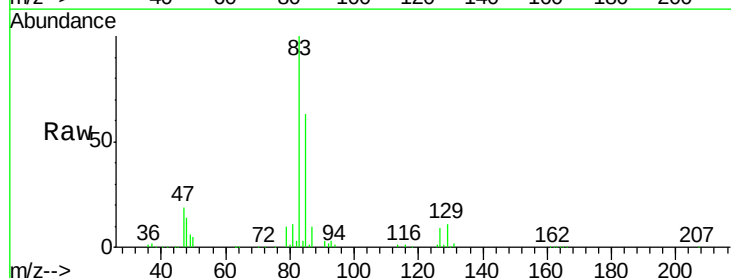
Tgt Ion: 83 Resp: 105969

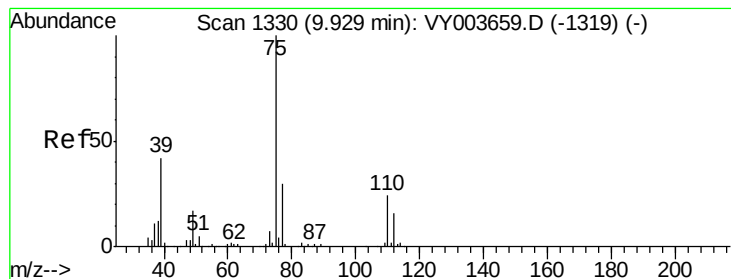
Ion Ratio Lower Upper

83 100

85 62.8 44.0 81.6

127 9.0 7.2 10.8



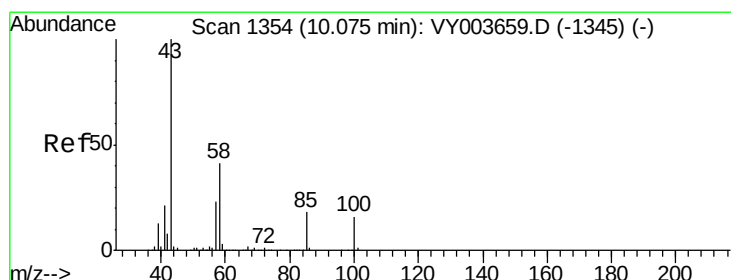
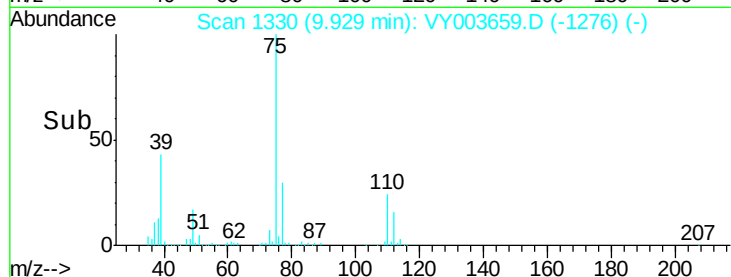
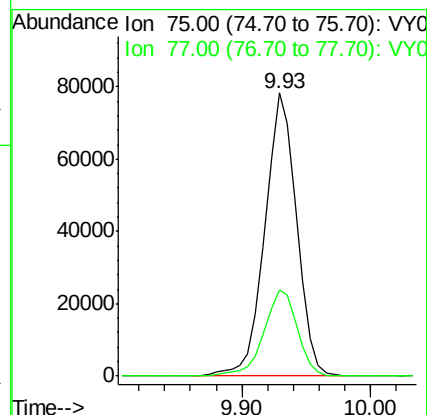
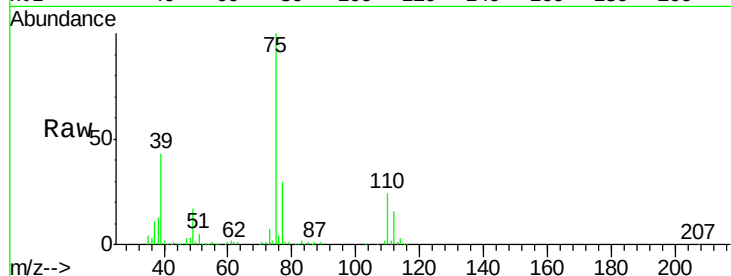


#42

cis-1,3-Dichloropropene  
 Concen: 24.134 ug/L  
 RT: 9.93 min Scan# 1330  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

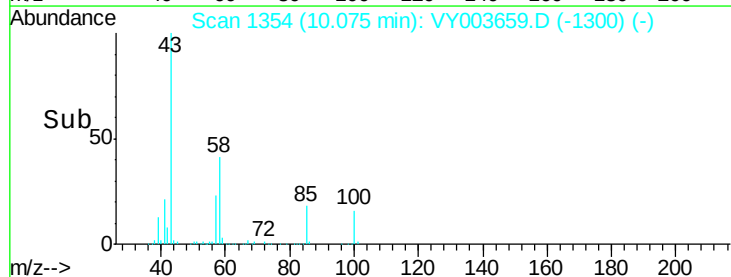
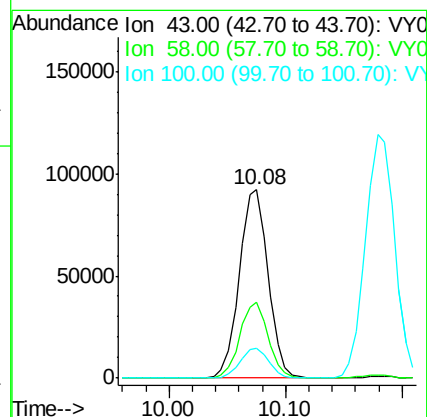
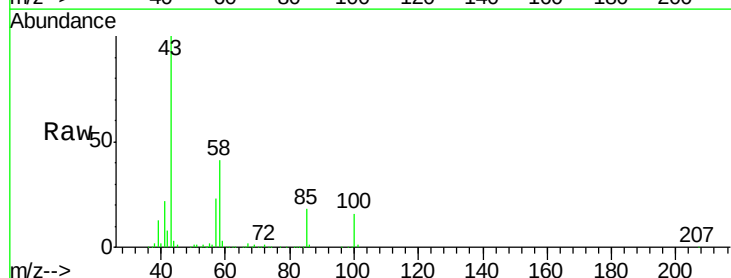
Tgt Ion: 75 Resp: 133939  
 Ion Ratio Lower Upper  
 75 100  
 77 30.5 21.3 39.6

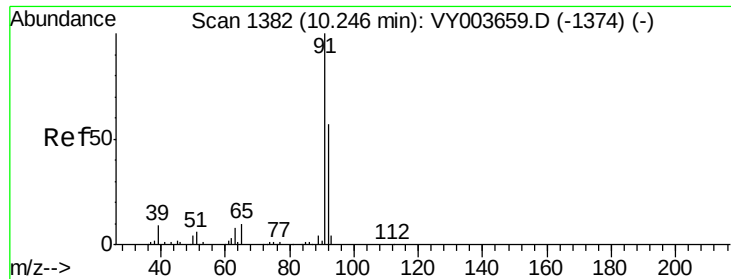


#43

4-Methyl-2-pentanone  
 Concen: 52.854 ug/L  
 RT: 10.08 min Scan# 1354  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion: 43 Resp: 159283  
 Ion Ratio Lower Upper  
 43 100  
 58 39.4 31.5 47.3  
 100 15.9 12.7 19.1





#44

Toluene

Concen: 23.870 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

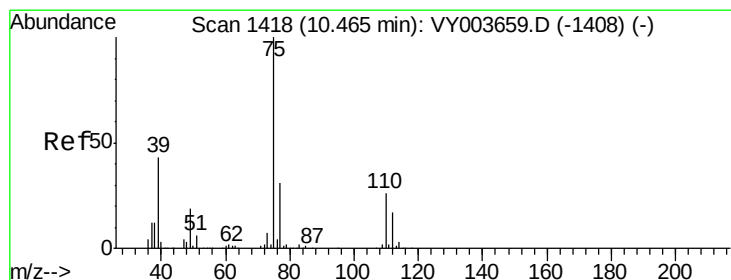
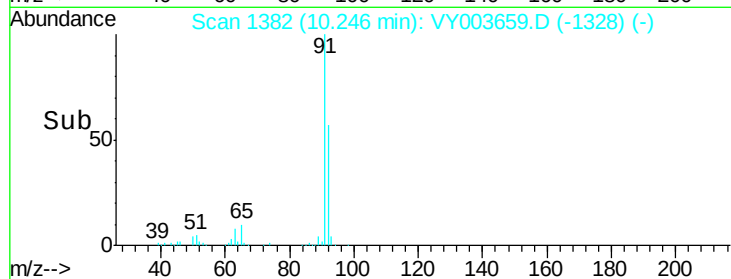
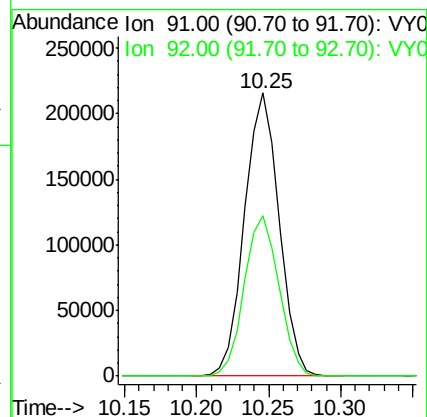
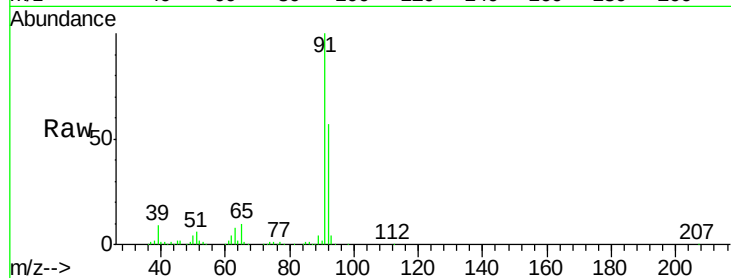
VSTD02579

Tgt Ion: 91 Resp: 359096

Ion Ratio Lower Upper

91 100

92 56.8 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 24.235 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VY003659.D

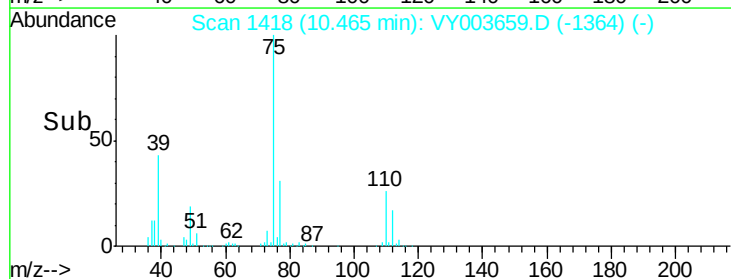
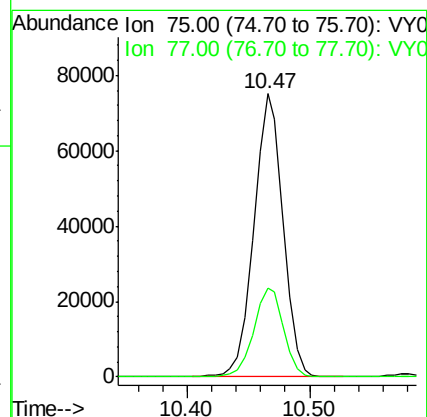
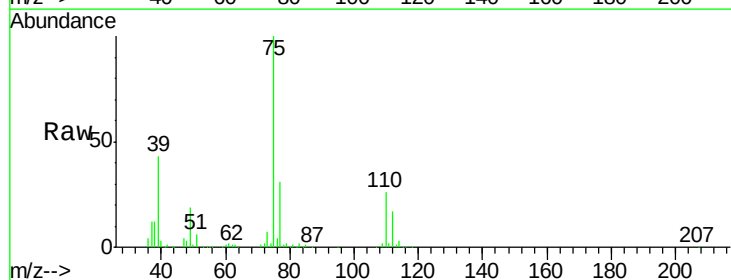
Acq: 04 Dec 2020 12:02

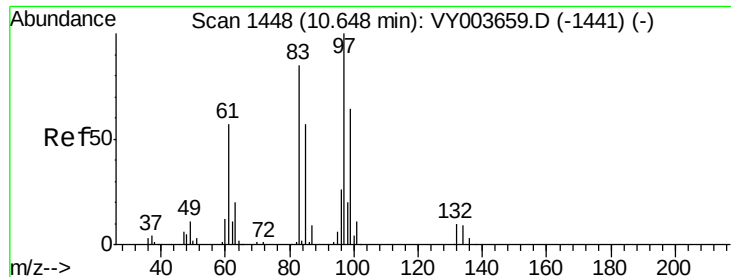
Tgt Ion: 75 Resp: 124492

Ion Ratio Lower Upper

75 100

77 31.4 22.0 40.8

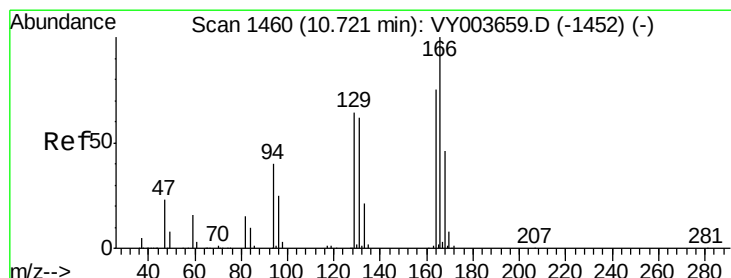
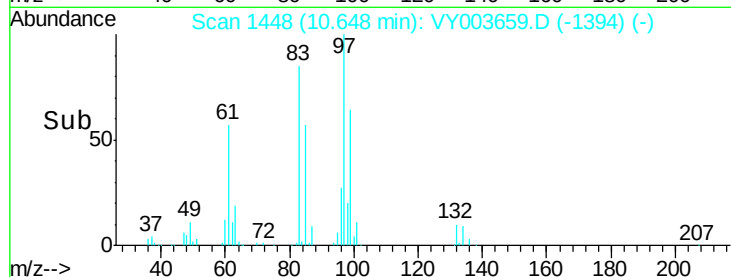
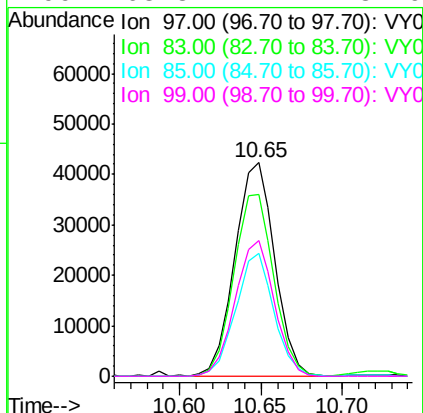
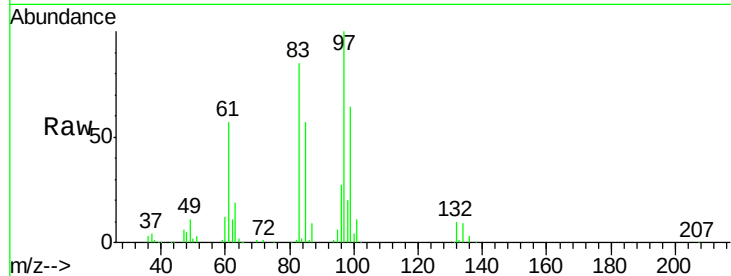




#46  
1,1,2-Trichloroethane  
Concen: 25.215 ug/L  
RT: 10.65 min Scan# 1448  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

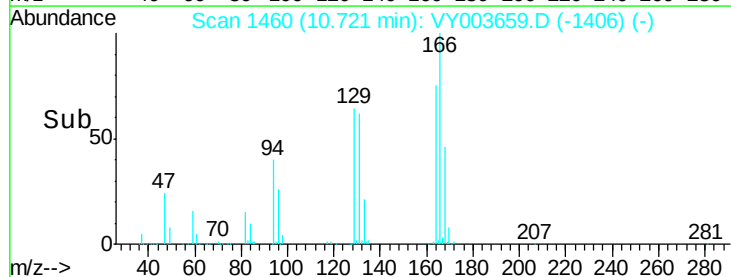
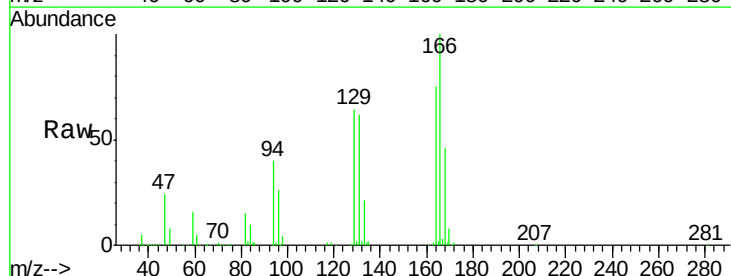
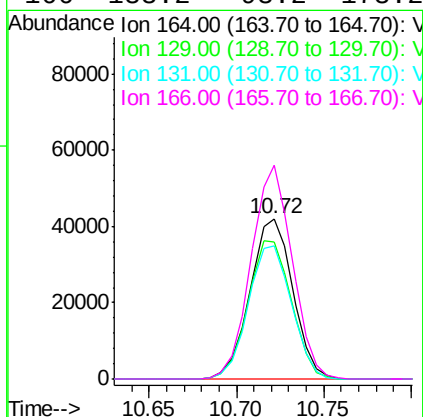
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02579

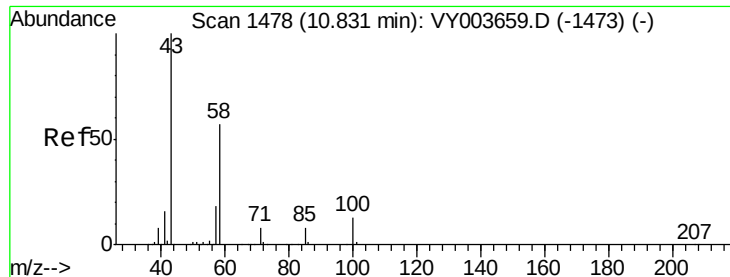
Tgt Ion: 97 Resp: 71982  
Ion Ratio Lower Upper  
97 100  
83 85.2 59.6 110.8  
85 57.4 40.2 74.6  
99 63.8 44.7 82.9



#47  
Tetrachloroethene  
Concen: 23.049 ug/L  
RT: 10.72 min Scan# 1460  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Tgt Ion: 164 Resp: 71548  
Ion Ratio Lower Upper  
164 100  
129 85.1 59.6 110.6  
131 82.7 57.9 107.5  
166 133.2 93.2 173.2

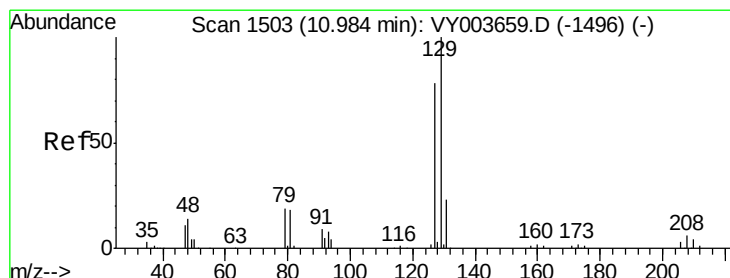
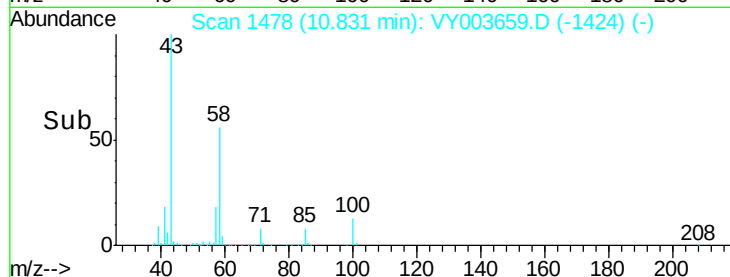
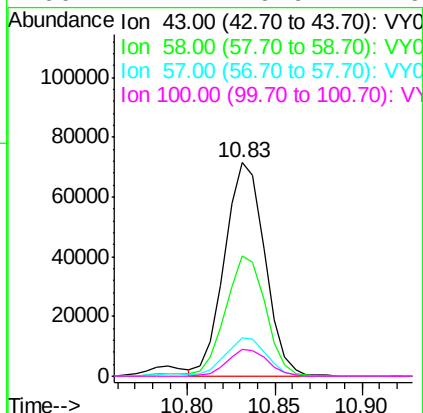
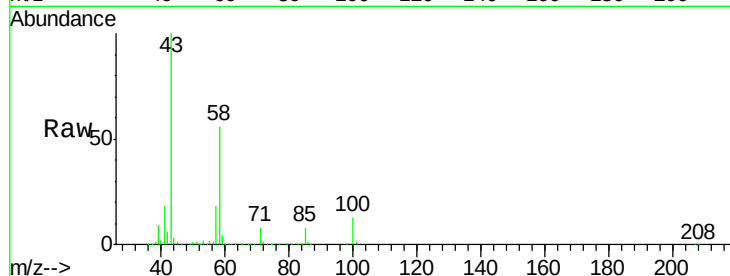




#49  
2-Hexanone  
Concen: 48.970 ug/L  
RT: 10.83 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

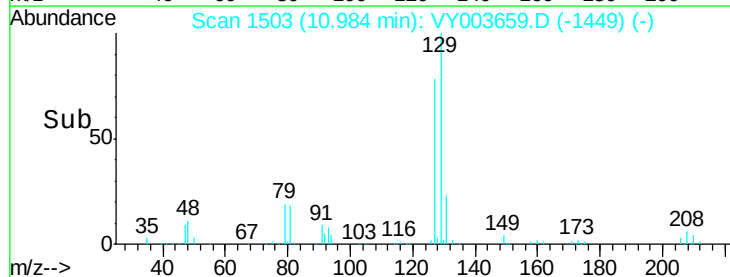
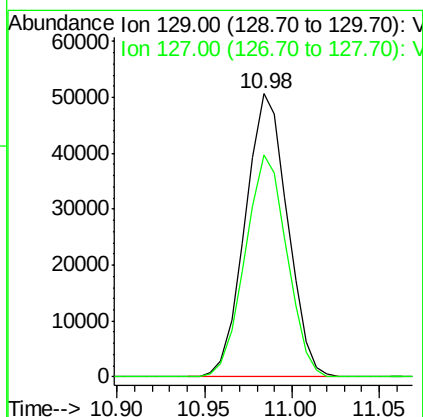
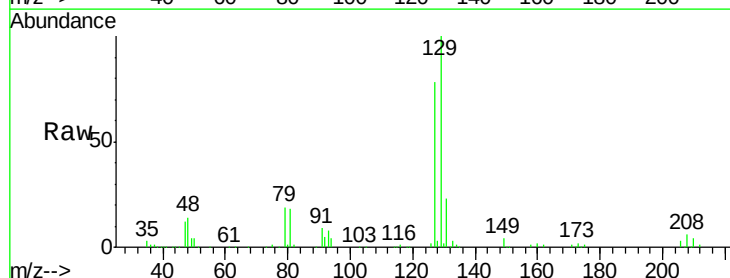
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02579

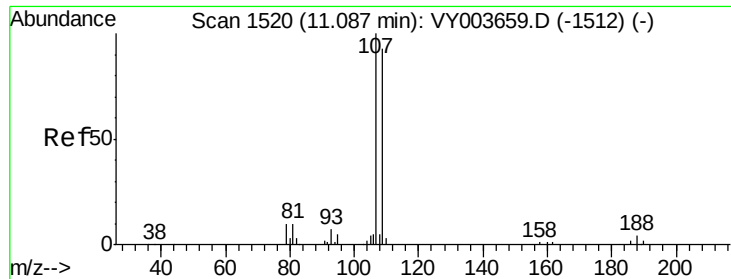
Tgt Ion: 43 Resp: 114225  
Ion Ratio Lower Upper  
43 100  
58 56.0 44.8 67.2  
57 18.5 14.8 22.2  
100 12.4 9.9 14.9



#50  
Dibromochloromethane  
Concen: 24.791 ug/L  
RT: 10.98 min Scan# 1503  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Tgt Ion: 129 Resp: 85099  
Ion Ratio Lower Upper  
129 100  
127 78.3 54.8 101.8

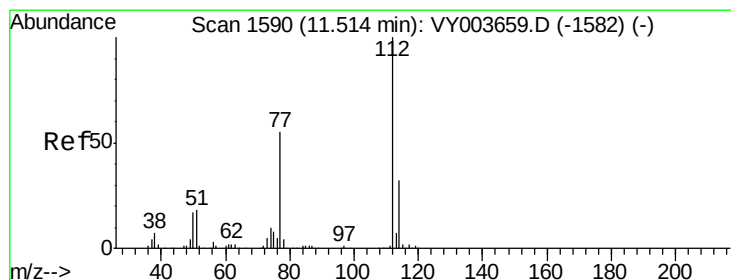
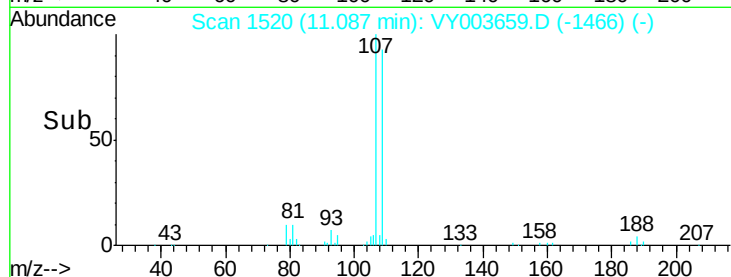
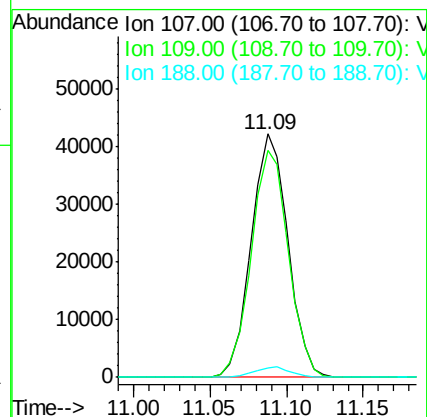
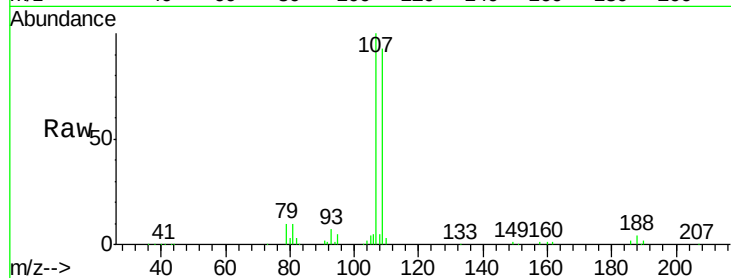




#51  
 1,2-Dibromoethane  
 Concen: 24.875 ug/L  
 RT: 11.09 min Scan# 1520  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

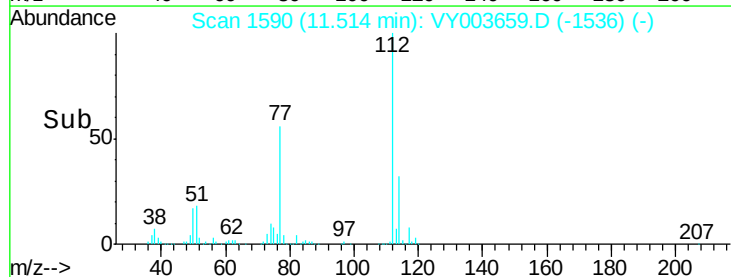
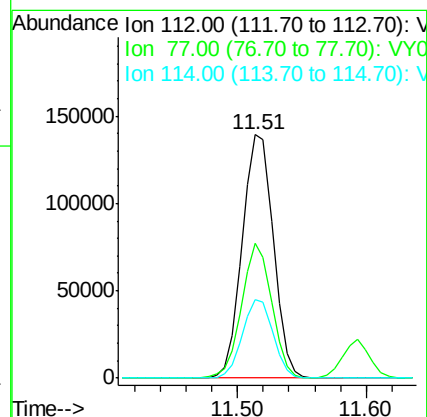
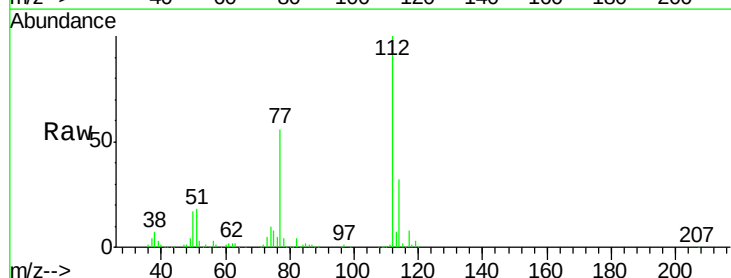
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 VSTD02579

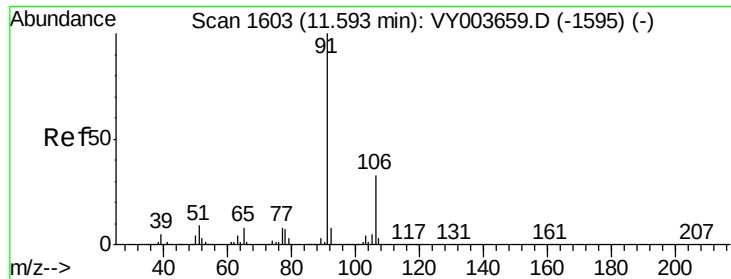
Tgt Ion:107 Resp: 70490  
 Ion Ratio Lower Upper  
 107 100  
 109 93.1 65.2 121.0  
 188 3.8 3.0 4.6



#52  
 Chlorobenzene  
 Concen: 24.109 ug/L  
 RT: 11.51 min Scan# 1590  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion:112 Resp: 232604  
 Ion Ratio Lower Upper  
 112 100  
 77 55.5 44.4 66.6  
 114 32.0 22.4 41.6

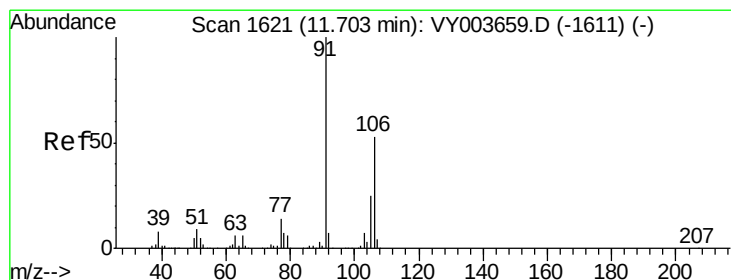
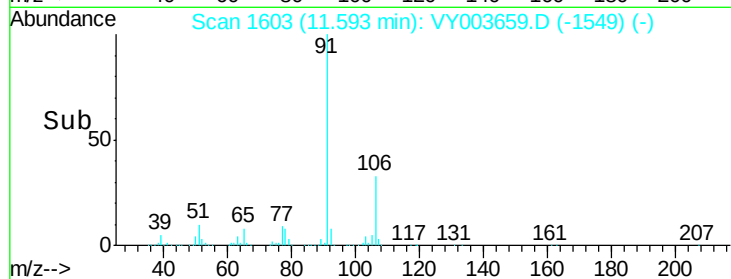
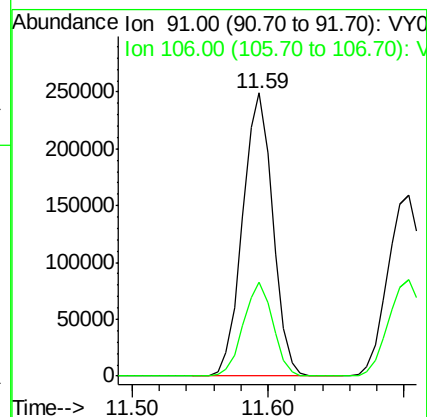
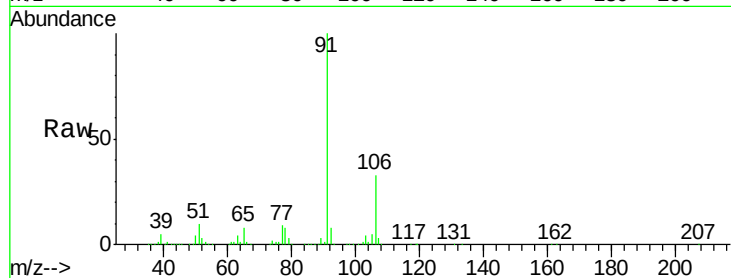




#53  
Ethylbenzene  
Concen: 24.831 ug/L  
RT: 11.59 min Scan# 1603  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

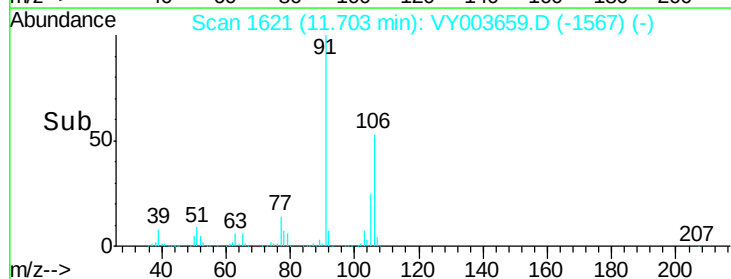
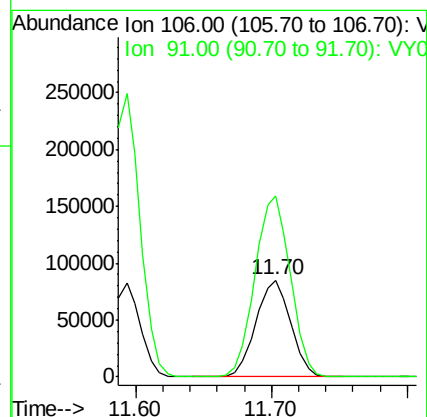
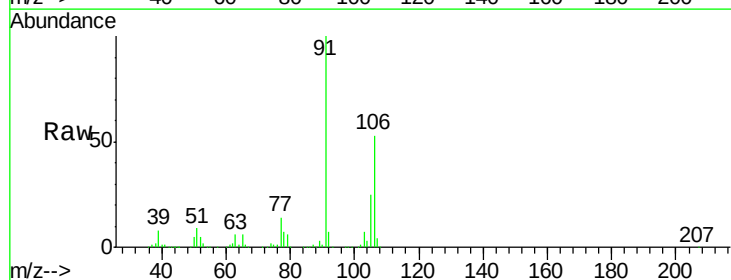
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02579

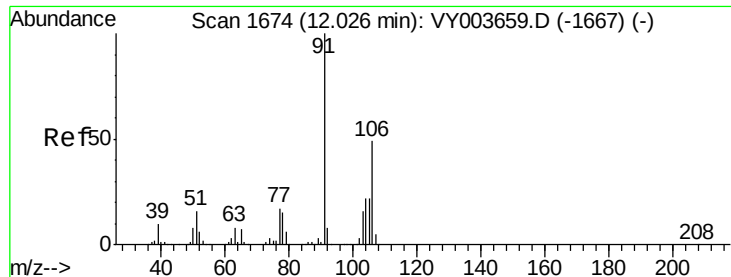
Tgt Ion: 91 Resp: 385967  
Ion Ratio Lower Upper  
91 100  
106 33.3 23.3 43.3



#54  
m,p-Xylene  
Concen: 25.422 ug/L  
RT: 11.70 min Scan# 1621  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Tgt Ion: 106 Resp: 152938  
Ion Ratio Lower Upper  
106 100  
91 187.6 131.3 243.9





#55

o-xylene

Concen: 28.225 ug/L

RT: 12.03 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

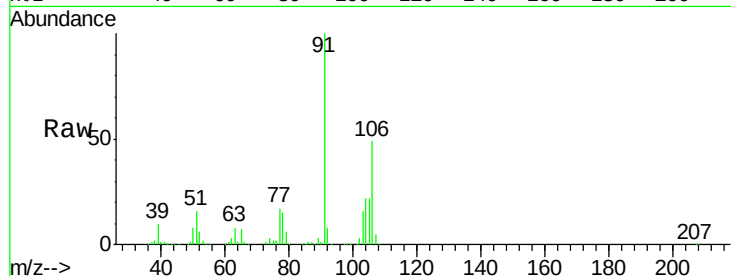
VSTD02579

Tgt Ion:106 Resp: 145096

Ion Ratio Lower Upper

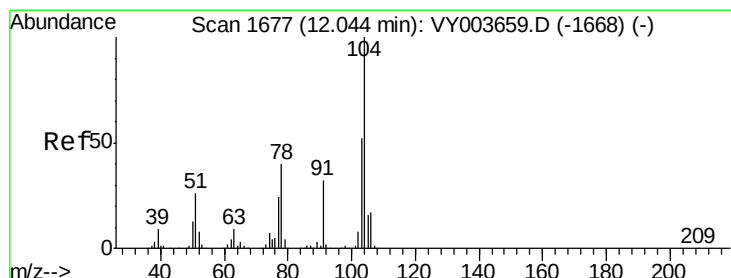
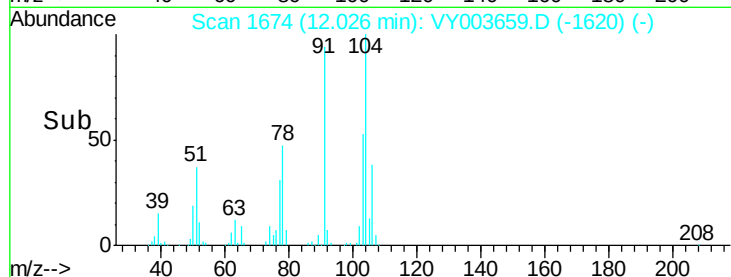
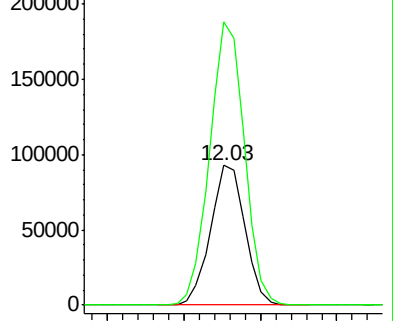
106 100

91 202.5 141.7 263.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#56

Styrene

Concen: 25.645 ug/L

RT: 12.04 min Scan# 1677

Delta R.T. 0.00 min

Lab File: VY003659.D

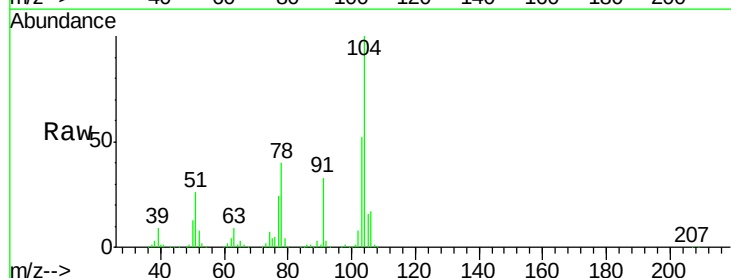
Acq: 04 Dec 2020 12:02

Tgt Ion:104 Resp: 252113

Ion Ratio Lower Upper

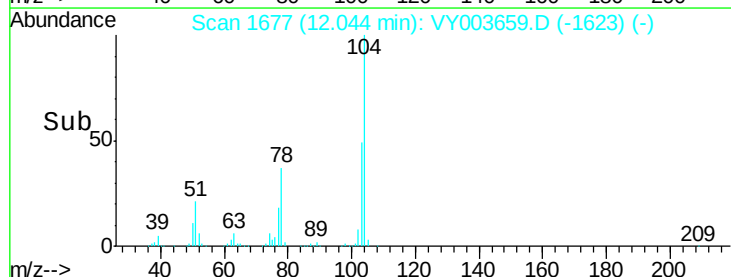
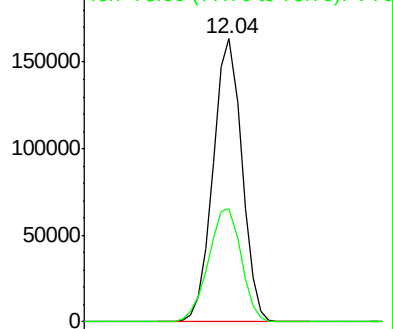
104 100

78 40.1 28.1 52.1

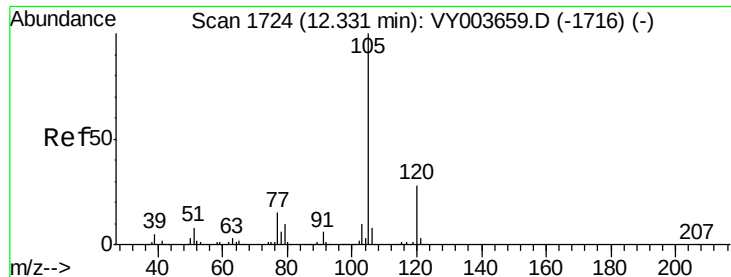


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0







#57

Isopropylbenzene

Concen: 31.677 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

Instrument :

MSVOA\_Y

ClientSampleId :

VSTD02579

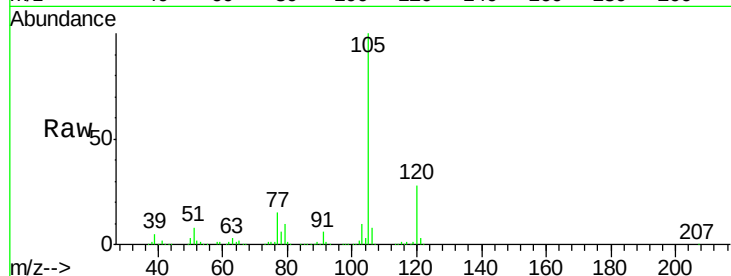
Tgt Ion: 105 Resp: 381975

Ion Ratio Lower Upper

105 100

120 27.9 22.3 33.5

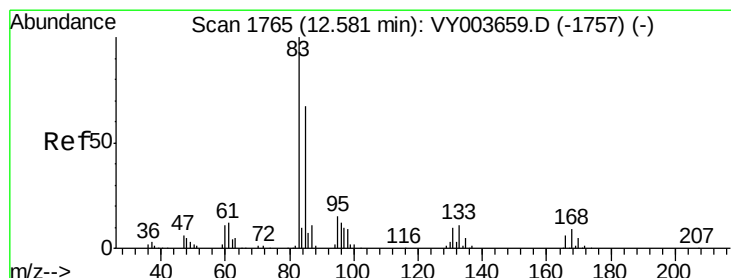
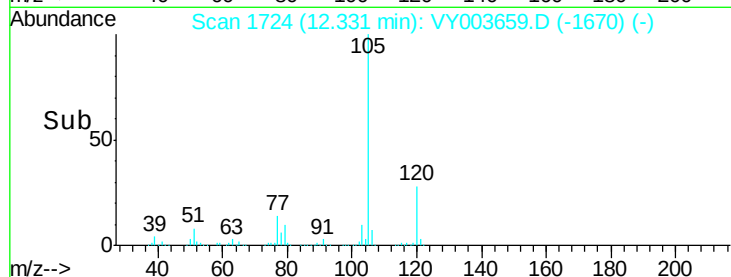
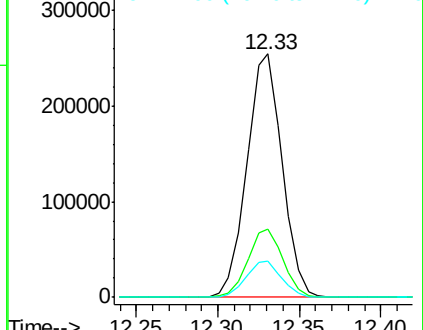
77 14.9 11.9 17.9



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: 23.651 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY003659.D

Acq: 04 Dec 2020 12:02

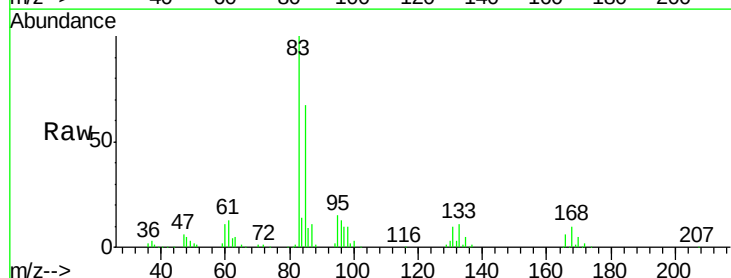
Tgt Ion: 83 Resp: 78406

Ion Ratio Lower Upper

83 100

85 67.4 47.2 87.6

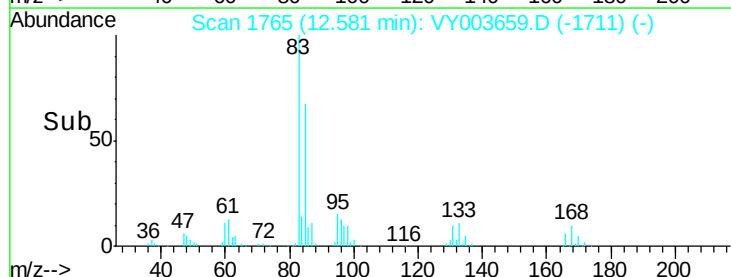
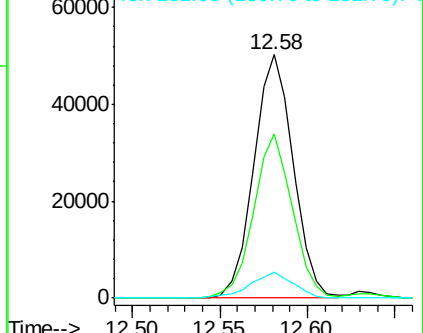
131 10.5 8.4 12.6

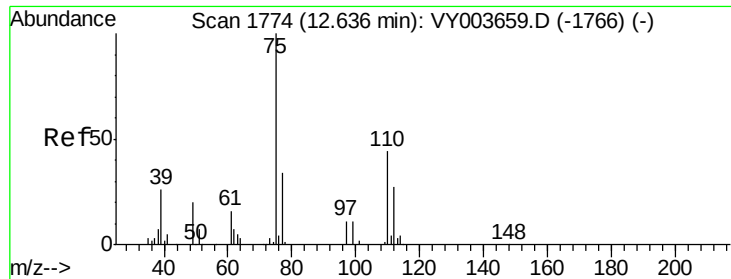


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

Ion 131.00 (130.70 to 131.70): V

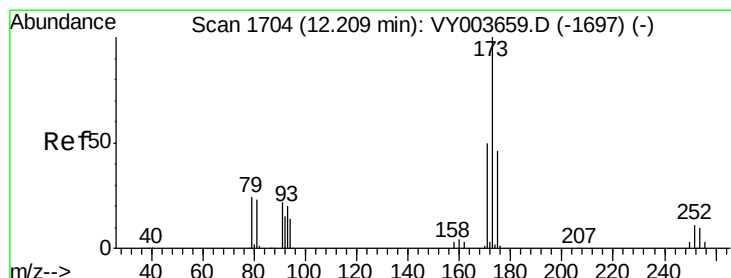
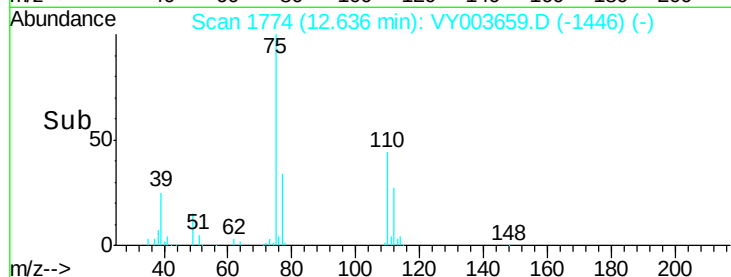
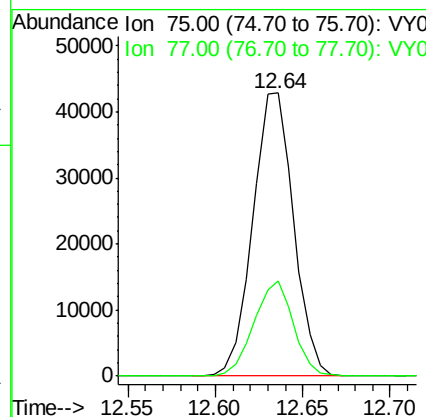
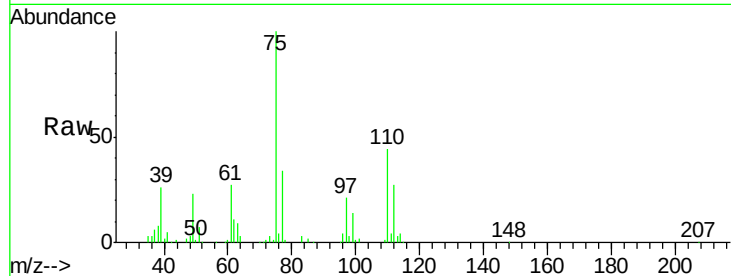




#59  
 1,2,3-Trichloropropane  
 Concen: 26.407 ug/L  
 RT: 12.64 min Scan# 1774  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

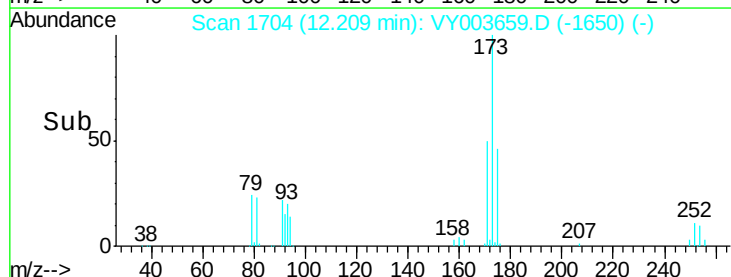
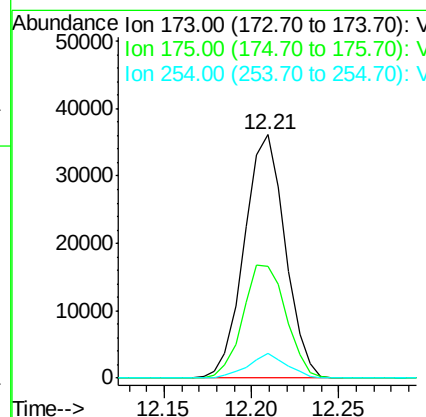
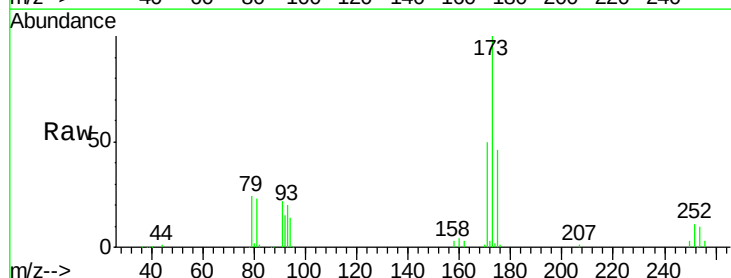
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

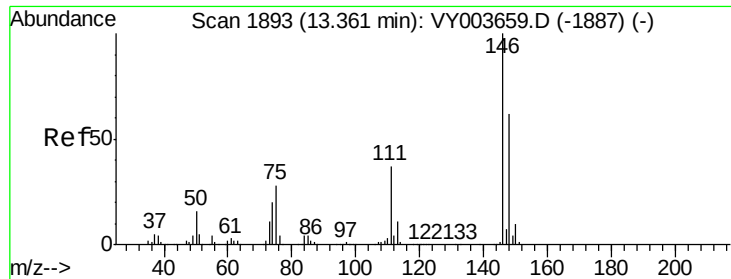
Tgt Ion: 75 Resp: 70180  
 Ion Ratio Lower Upper  
 75 100  
 77 32.4 25.9 38.9



#62  
 Bromoform  
 Concen: 23.892 ug/L  
 RT: 12.21 min Scan# 1704  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion: 173 Resp: 58821  
 Ion Ratio Lower Upper  
 173 100  
 175 48.9 39.1 58.7  
 254 9.6 7.7 11.5

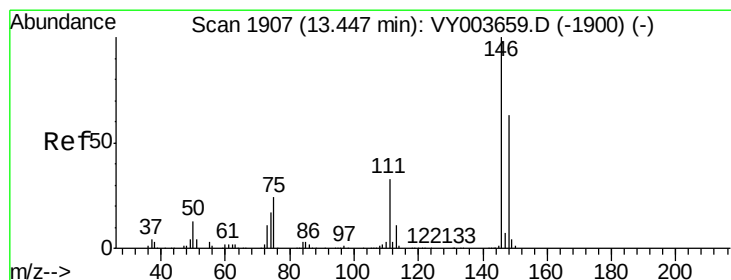
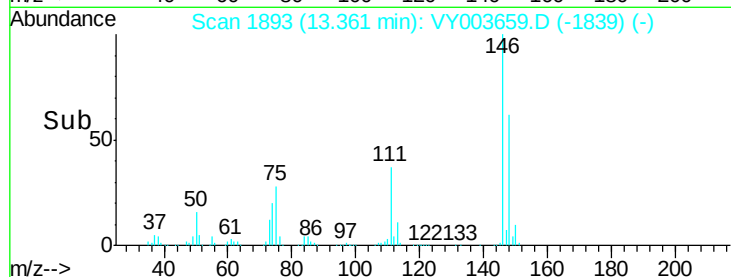
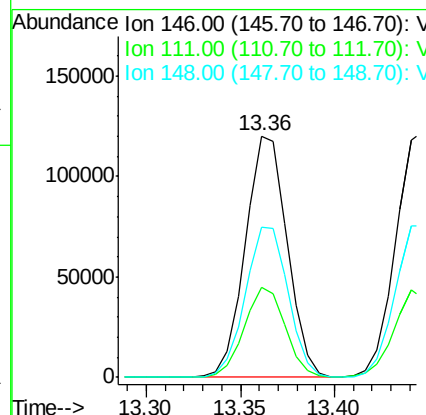
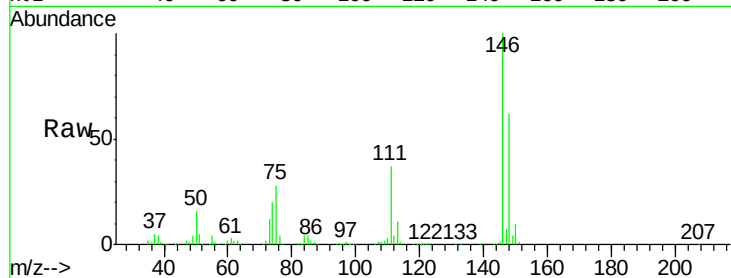




#63  
 1,3-Dichlorobenzene  
 Concen: 24.242 ug/L  
 RT: 13.36 min Scan# 1893  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

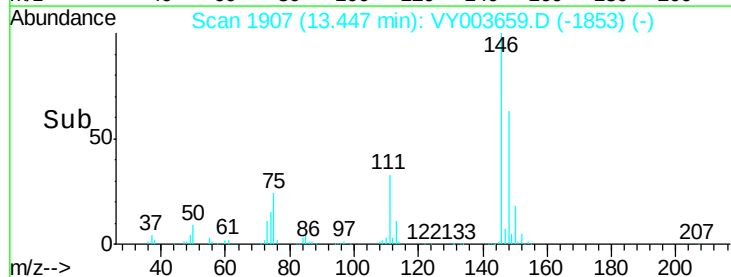
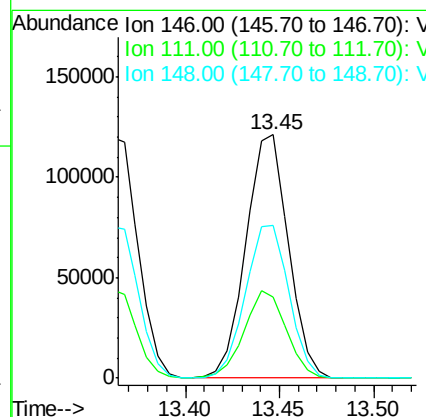
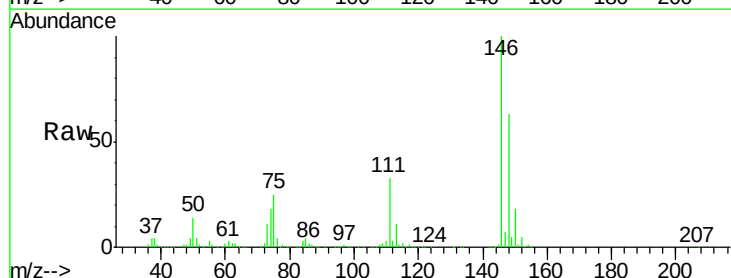
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

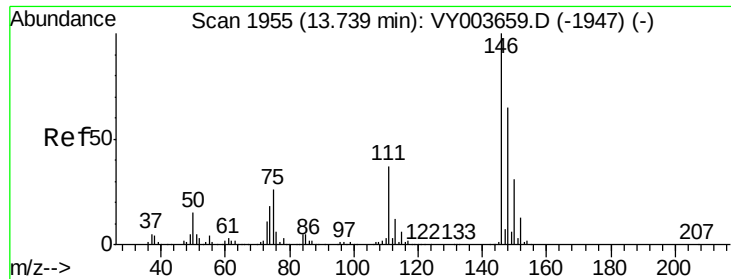
Tgt Ion:146 Resp: 185442  
 Ion Ratio Lower Upper  
 146 100  
 111 37.2 26.0 48.4  
 148 62.4 43.7 81.1



#64  
 1,4-Dichlorobenzene  
 Concen: 23.931 ug/L  
 RT: 13.45 min Scan# 1907  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion:146 Resp: 189114  
 Ion Ratio Lower Upper  
 146 100  
 111 33.1 23.2 43.0  
 148 62.6 43.8 81.4

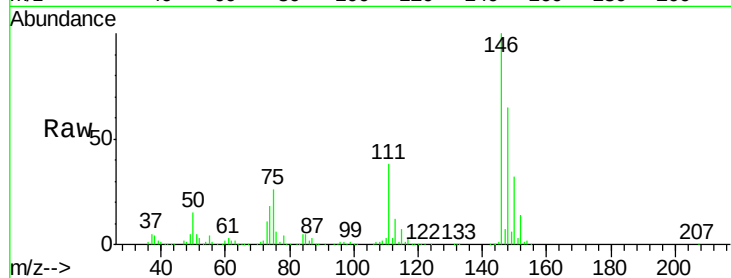




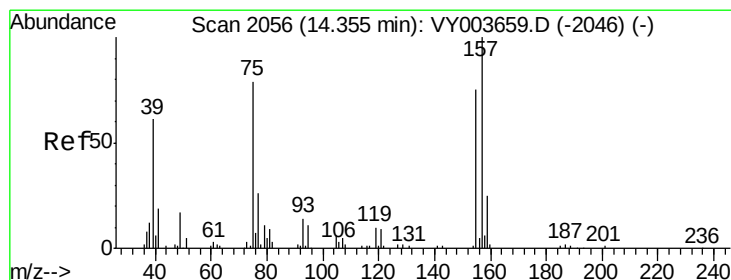
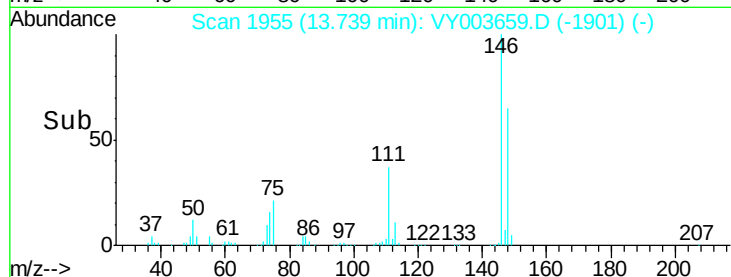
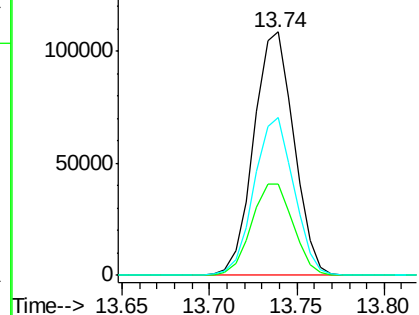
#65  
 1,2-Dichlorobenzene  
 Concen: 26.814 ug/L  
 RT: 13.74 min Scan# 1955  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

Tgt Ion:146 Resp: 173524  
 Ion Ratio Lower Upper  
 146 100  
 111 37.5 30.0 45.0  
 148 64.8 51.8 77.8

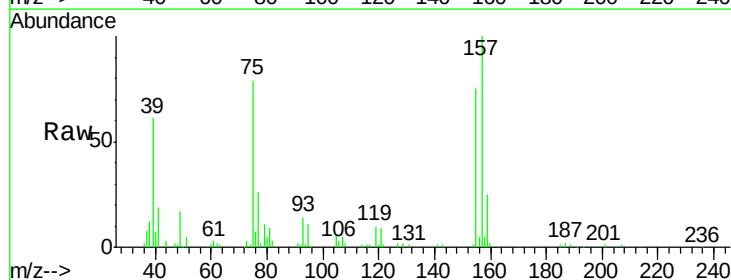


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

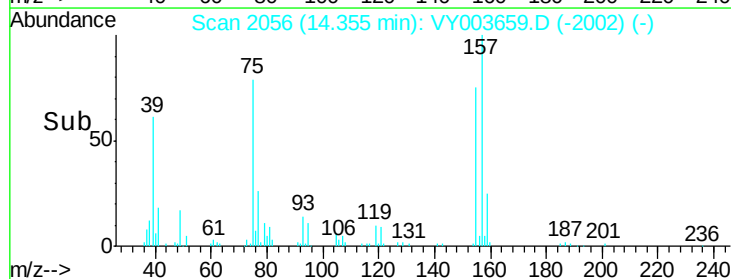
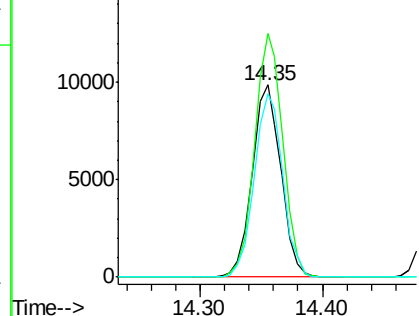


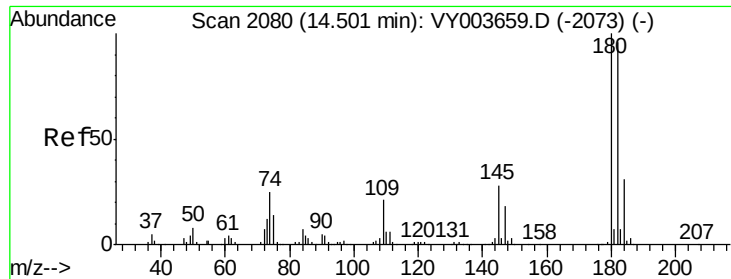
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 28.287 ug/L  
 RT: 14.35 min Scan# 2056  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Tgt Ion: 75 Resp: 16010  
 Ion Ratio Lower Upper  
 75 100  
 157 126.6 101.3 151.9  
 155 95.3 76.2 114.4



Abundance Ion 75.00 (74.70 to 75.70): VY0  
 Ion 157.00 (156.70 to 157.70): V  
 Ion 155.00 (154.70 to 155.70): V

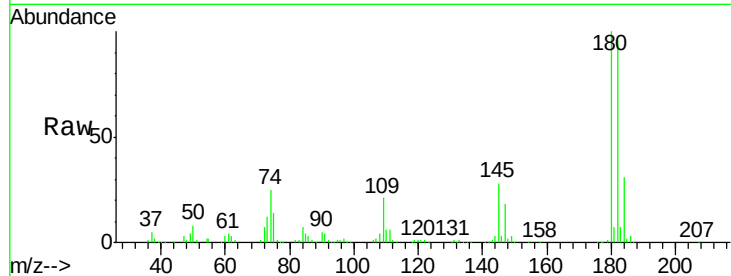




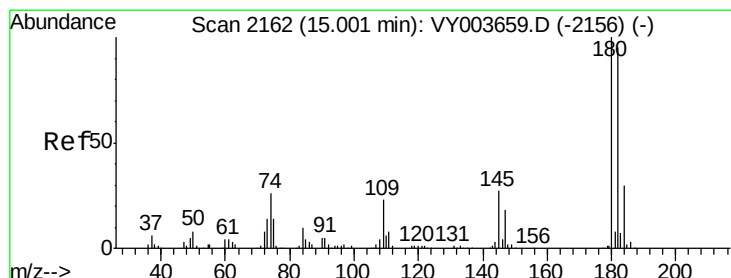
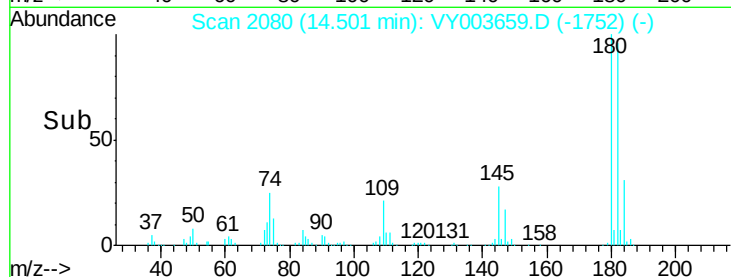
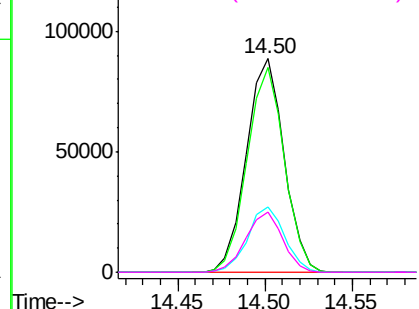
#67  
 1,3,5-Trichlorobenzene  
 Concen: 30.611 ug/L  
 RT: 14.50 min Scan# 2080  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD02579

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 132603 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.0  | 76.0  | 114.0  |
| 184      | 30.2  | 24.2  | 36.2   |
| 145      | 27.7  | 22.2  | 33.2   |

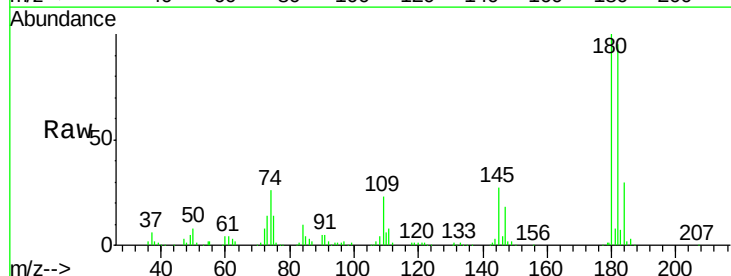


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

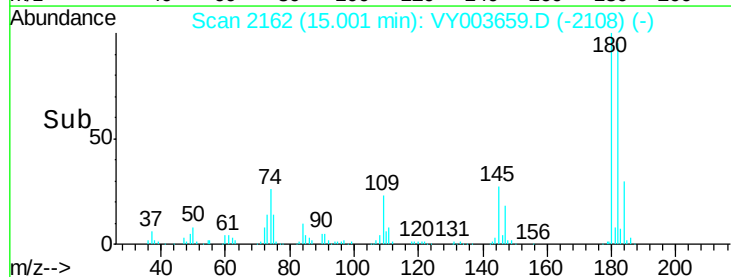
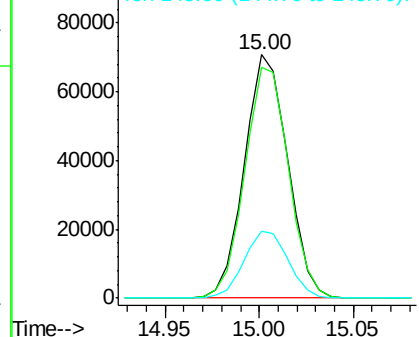


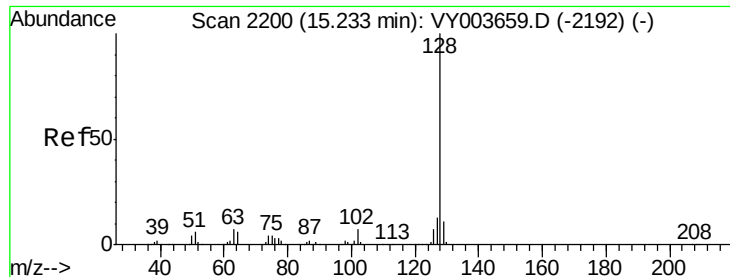
#68  
 1,2,4-trichlorobenzene  
 Concen: 30.339 ug/L  
 RT: 15.00 min Scan# 2162  
 Delta R.T. 0.00 min  
 Lab File: VY003659.D  
 Acq: 04 Dec 2020 12:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 112749 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.6  | 76.5  | 114.7  |
| 145      | 27.8  | 22.2  | 33.4   |



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

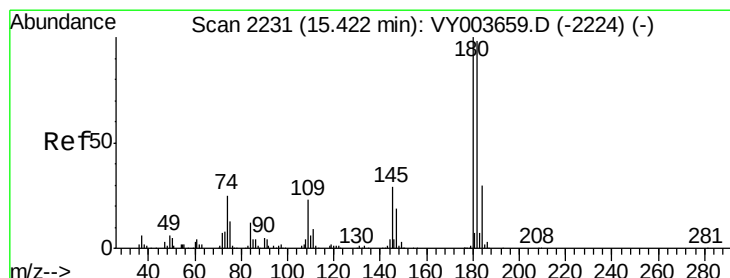
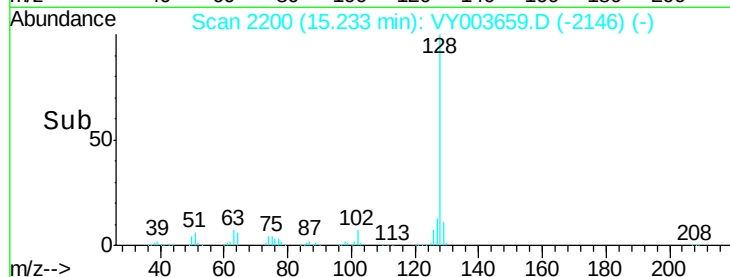
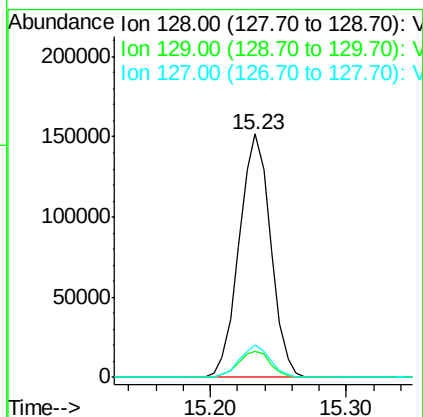
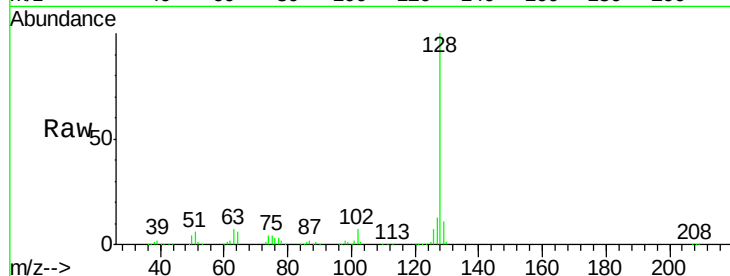




#69  
Naphthalene  
Concen: 35.637 ug/L  
RT: 15.23 min Scan# 2200  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTD02579

Tgt Ion:128 Resp: 246079  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.7 13.1  
127 12.8 10.2 15.4



#70  
1,2,3-Trichlorobenzene  
Concen: 34.926 ug/L  
RT: 15.42 min Scan# 2231  
Delta R.T. 0.00 min  
Lab File: VY003659.D  
Acq: 04 Dec 2020 12:02

Tgt Ion:180 Resp: 103577  
Ion Ratio Lower Upper  
180 100  
182 96.1 76.9 115.3  
145 30.3 24.2 36.4

