

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV090920\  
 Data File : VV018161.D  
 Acq On : 09 Sep 2020 10:12  
 Operator : SY/MD  
 Sample : VSTD00564  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

Quant Time: Sep 10 02:09:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 10 02:02:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 257878   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 254231   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 131039   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 9928  | 4.94 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 8475  | 5.16 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.12  | 63  | 18172 | 4.77 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.93  | 46  | 3397  | 2.63 | ug/L | 0.02 |
| 24) Chloroform-d               | 4.38  | 84  | 16900 | 4.68 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.06  | 65  | 10773 | 4.62 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.08  | 84  | 32629 | 4.62 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.10  | 67  | 10408 | 4.55 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.34  | 98  | 28266 | 4.42 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.65  | 79  | 4845  | 4.56 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.11  | 63  | 5421  | 7.09 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24 | 84  | 12339 | 4.15 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.65 | 152 | 12965 | 4.95 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |       | Qvalue    |
|--------------------------------|------|-----|-------|-------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 8521  | 4.258 | ug/L 99   |
| 3) Chloromethane               | 1.25 | 50  | 9372  | 4.100 | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 9758  | 4.299 | ug/L 99   |
| 6) Bromomethane                | 1.53 | 94  | 5671  | 4.146 | ug/L 97   |
| 8) Chloroethane                | 1.60 | 64  | 6109  | 4.216 | ug/L 98   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 13040 | 4.031 | ug/L 99   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 7822  | 4.264 | ug/L 100  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 7683  | 4.420 | ug/L 96   |
| 13) Acetone                    | 2.20 | 43  | 10342 | 8.140 | ug/L 94   |
| 14) Carbon disulfide           | 2.31 | 76  | 23041 | 4.709 | ug/L 99   |
| 15) Methyl Acetate             | 2.45 | 43  | 8422  | 4.020 | ug/L 92   |
| 16) Methylene chloride         | 2.52 | 84  | 9109  | 4.208 | ug/L 96   |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 7666  | 4.288 | ug/L 94   |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 22575 | 3.885 | ug/L 99   |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 14698 | 4.139 | ug/L 98   |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 7865  | 4.040 | ug/L 96   |
| 22) 2-Butanone                 | 4.02 | 43  | 8730  | 6.071 | ug/L # 66 |
| 23) Bromochloromethane         | 4.28 | 128 | 4074  | 3.993 | ug/L 96   |
| 25) Chloroform                 | 4.41 | 83  | 14724 | 4.066 | ug/L 99   |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 11351 | 3.964 | ug/L 96   |
| 29) Cyclohexane                | 4.70 | 56  | 11818 | 3.845 | ug/L 97   |
| 30) 1,1,1-Trichloroethane      | 4.63 | 97  | 12785 | 4.121 | ug/L 98   |
| 31) Carbon tetrachloride       | 4.85 | 117 | 11409 | 4.357 | ug/L 99   |
| 33) Benzene                    | 5.13 | 78  | 30918 | 3.972 | ug/L 100  |
| 34) Trichloroethene            | 5.94 | 95  | 8941  | 4.315 | ug/L 95   |
| 35) Methylcyclohexane          | 6.15 | 83  | 11757 | 3.779 | ug/L 97   |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 8432  | 3.994 | ug/L 99   |
| 38) Bromodichloromethane       | 6.53 | 83  | 10455 | 3.953 | ug/L 94   |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 10829 | 3.571 | ug/L 93   |
| 40) 4-Methyl-2-pentanone       | 7.25 | 43  | 17053 | 6.284 | ug/L 96   |

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 Operator : SY/MD  
 Sample : VSTD00564  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

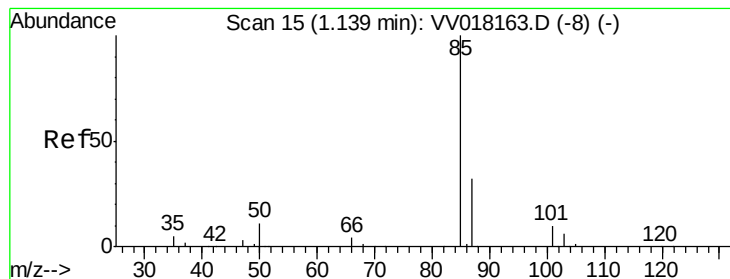
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

Quant Time: Sep 10 02:09:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 10 02:02:18 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) Toluene                    | 7.41  | 91   | 30459    | 3.733 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.68  | 75   | 10904    | 3.776 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 7712     | 3.934 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.00  | 164  | 6490     | 4.195 | ug/L  | 95       |
| 48) 2-Hexanone                 | 8.16  | 43   | 13202    | 6.062 | ug/L  | 96       |
| 49) Dibromochloromethane       | 8.27  | 129  | 8084     | 4.126 | ug/L  | 90       |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 7513     | 3.688 | ug/L  | 97       |
| 51) Chlorobenzene              | 8.90  | 112  | 21150    | 4.013 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.03  | 91   | 32389    | 3.634 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.16  | 106  | 11592    | 3.529 | ug/L  | 98       |
| 54) o-xylene                   | 9.57  | 106  | 10882    | 3.355 | ug/L  | 94       |
| 55) Styrene                    | 9.59  | 104  | 18182    | 3.281 | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.95  | 105  | 29454    | 3.432 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 10175    | 3.370 | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane     | 10.29 | 75   | 9554     | 3.698 | ug/L  | 100      |
| 61) Bromoform                  | 9.76  | 173  | 5580     | 4.347 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 16302    | 3.913 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 17400    | 4.064 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 17004    | 3.988 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 2027     | 3.304 | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 12020    | 3.764 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 9527     | 3.394 | ug/L  | 97       |
| 69) Naphthalene                | 13.53 | 128  | 19509    | 2.581 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 9402     | 3.314 | ug/L  | 98       |

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





#2

Dichlorodifluoromethane

Concen: 4.258 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

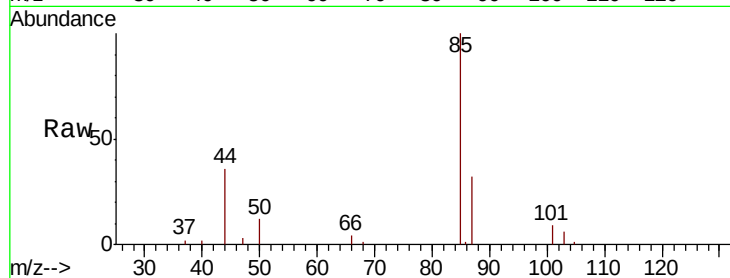
VSTD00564

Tot Ion: 85 Resp: 8521

Ion Ratio Lower Upper

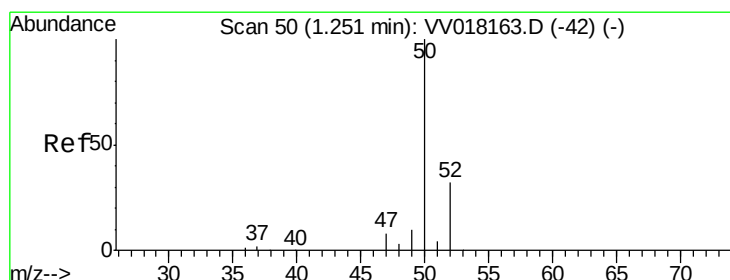
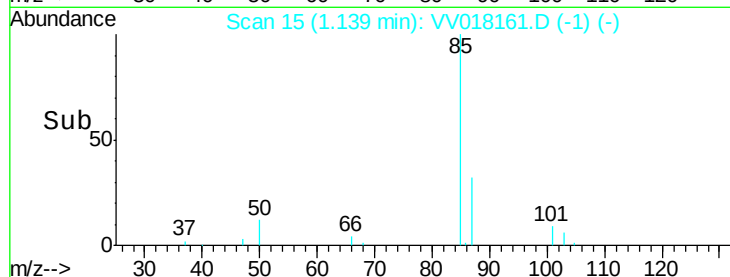
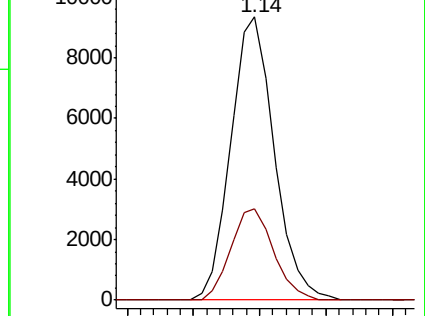
85 100

87 31.7 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: 4.100 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV018161.D

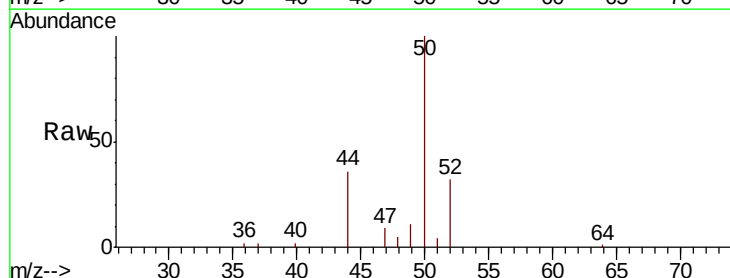
Acq: 09 Sep 2020 10:12

Tgt Ion: 50 Resp: 9372

Ion Ratio Lower Upper

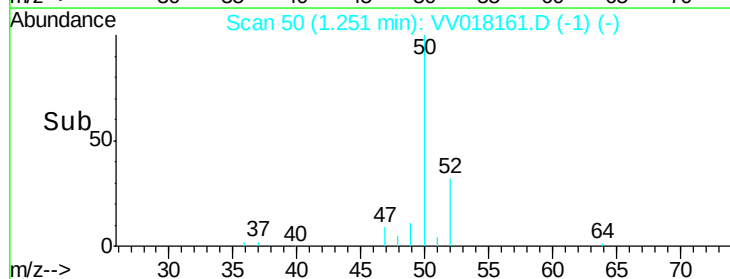
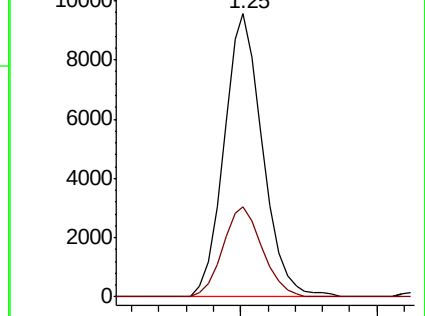
50 100

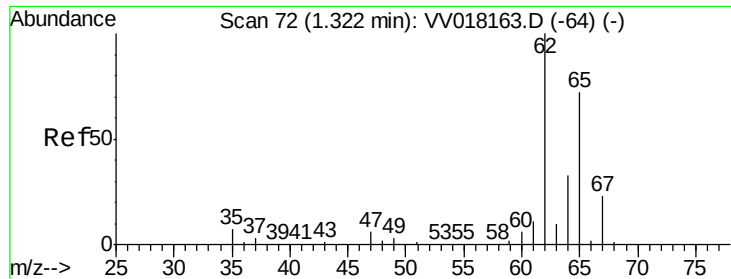
52 31.9 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 4.299 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampled :

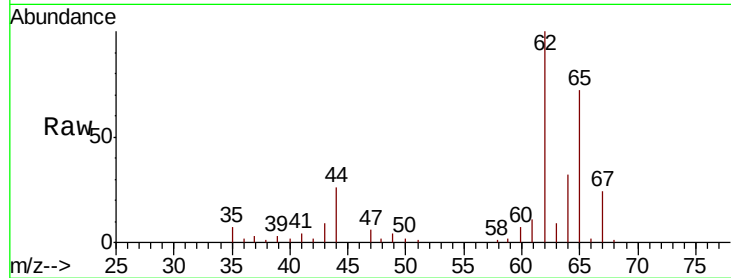
VSTD00564

Tot Ion: 62 Resp: 9758

Ion Ratio Lower Upper

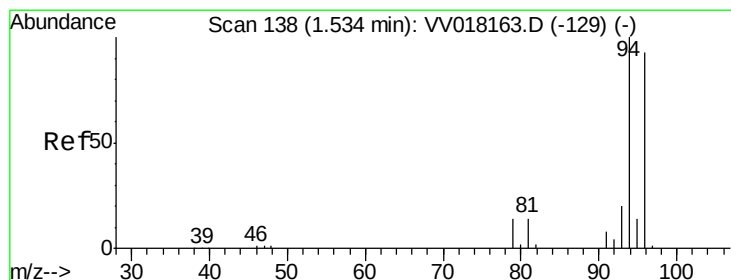
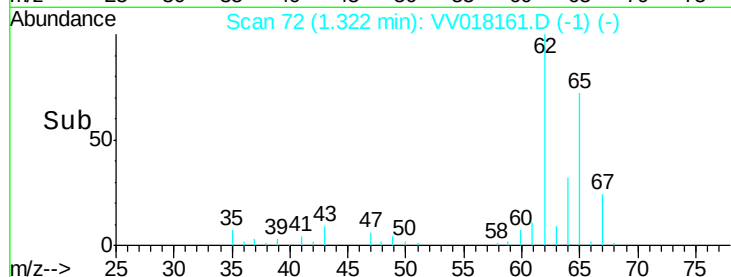
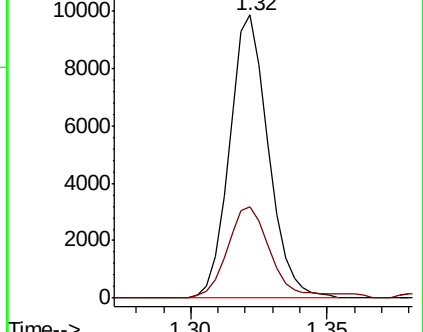
62 100

64 32.2 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 4.146 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV018161.D

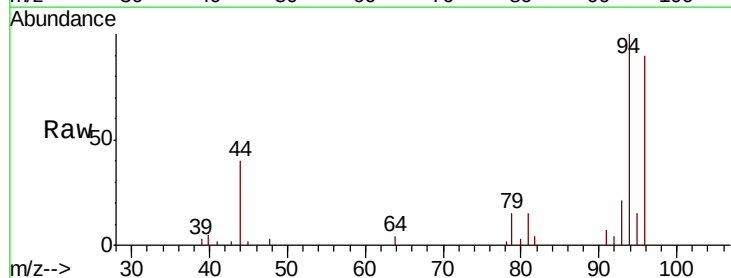
Acq: 09 Sep 2020 10:12

Tgt Ion: 94 Resp: 5671

Ion Ratio Lower Upper

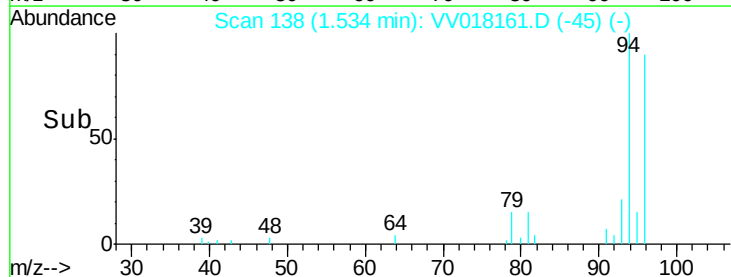
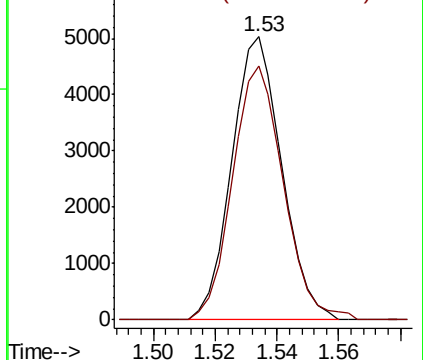
94 100

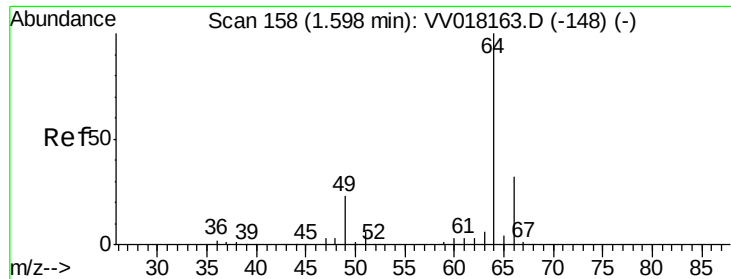
96 89.8 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.216 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

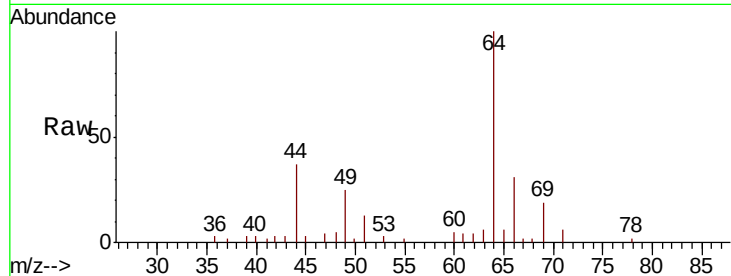
VSTD00564

Tot Ion: 64 Resp: 6109

Ion Ratio Lower Upper

64 100

66 30.8 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VV018161.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV018161.D (-148) (-)

1.60

6000

5000

4000

3000

2000

1000

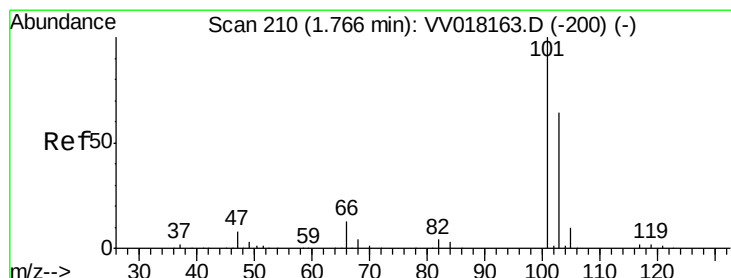
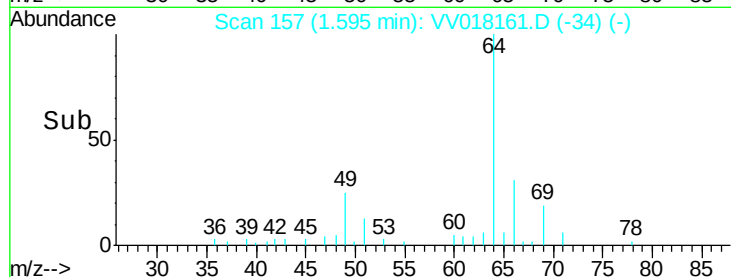
0

Time-->

1.55

1.60

1.65



#9

Trichlorofluoromethane

Concen: 4.031 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV018161.D

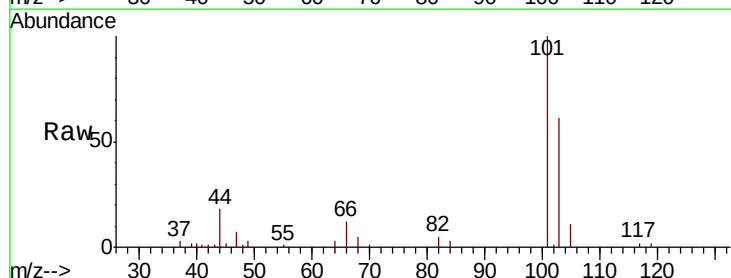
Acq: 09 Sep 2020 10:12

Tgt Ion: 101 Resp: 13040

Ion Ratio Lower Upper

101 100

103 63.7 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV018161.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV018161.D (-200) (-)

1.77

12000

10000

8000

6000

4000

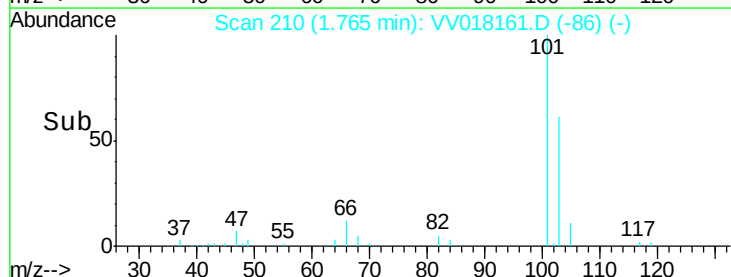
2000

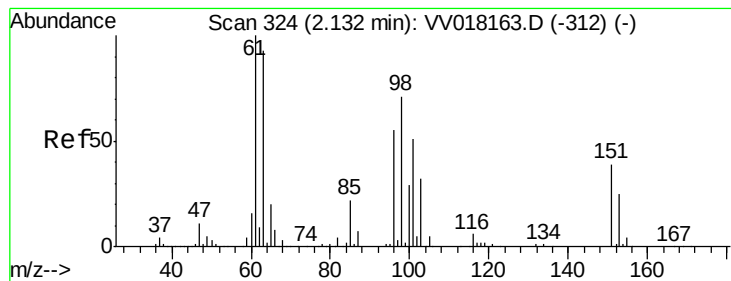
0

Time-->

1.75

1.80





#10

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

Concen: 4.264 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

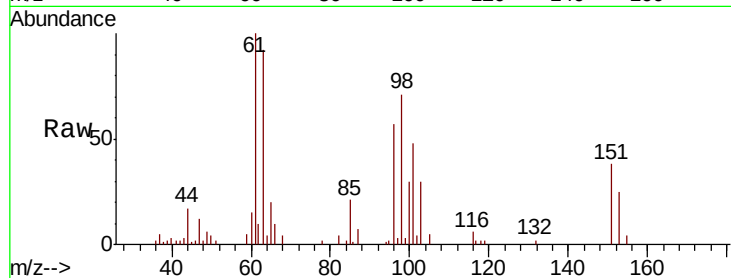
Tot Ion:101 Resp: 7822

Ion Ratio Lower Upper

101 100

85 42.3 33.5 50.3

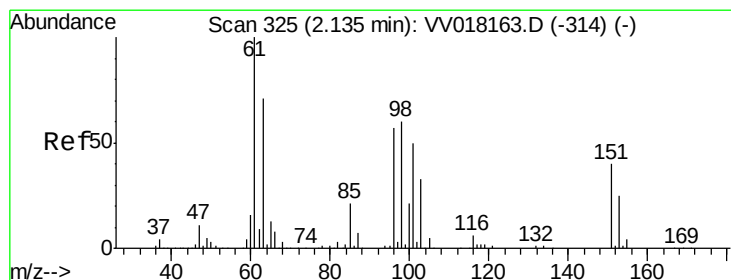
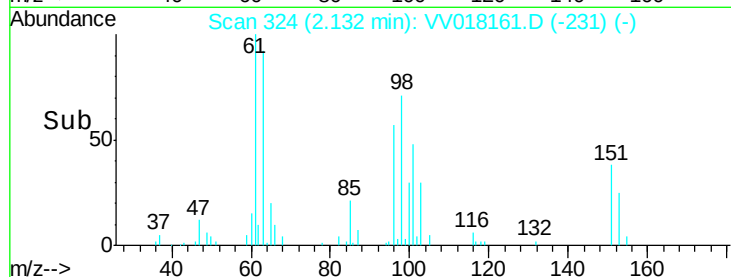
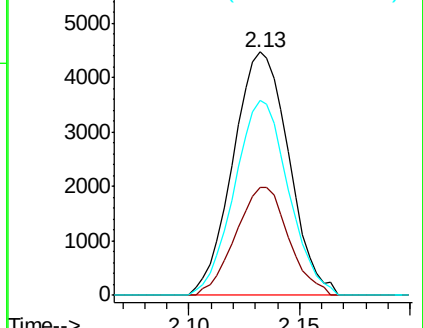
151 77.6 62.2 93.2



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: 4.420 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

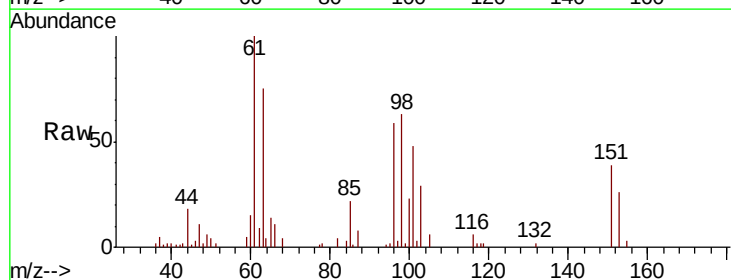
Tgt Ion: 96 Resp: 7683

Ion Ratio Lower Upper

96 100

61 169.3 122.9 228.3

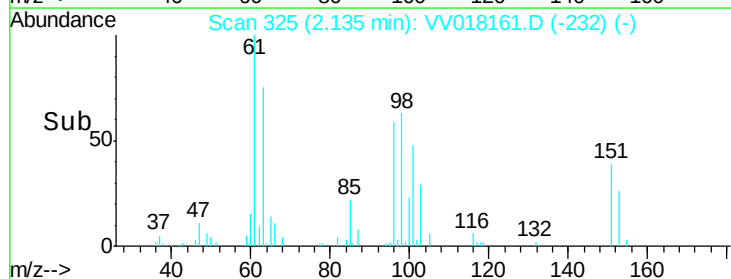
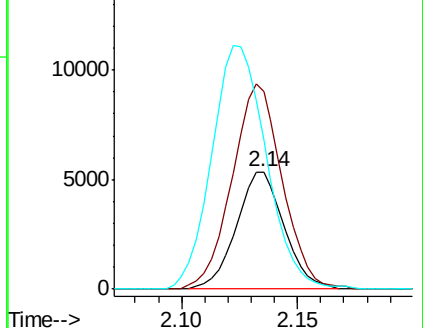
63 126.9 91.9 170.7

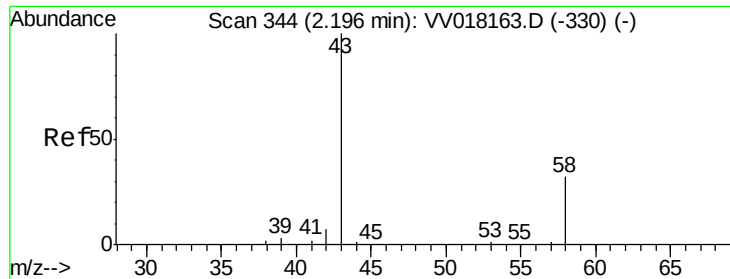


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 8.140 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

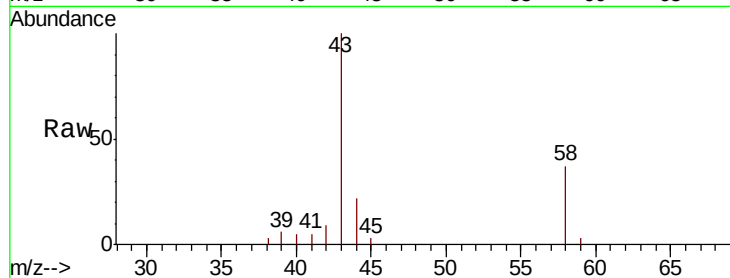
VSTD00564

Tot Ion: 43 Resp: 10342

Ion Ratio Lower Upper

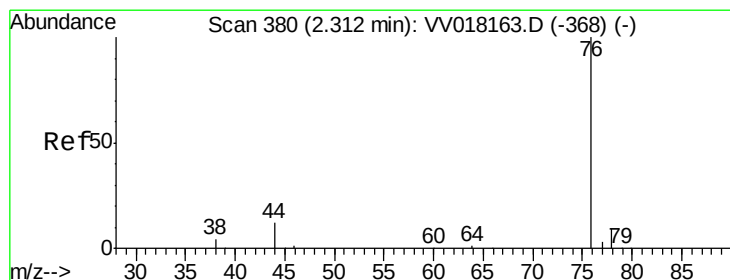
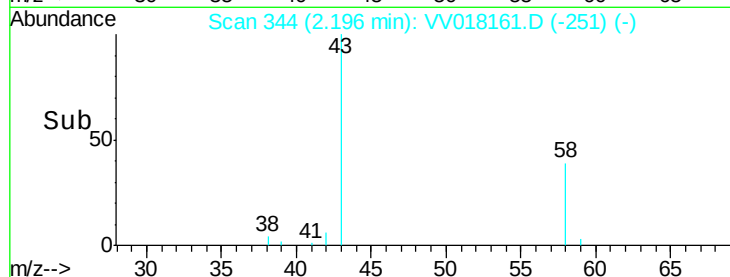
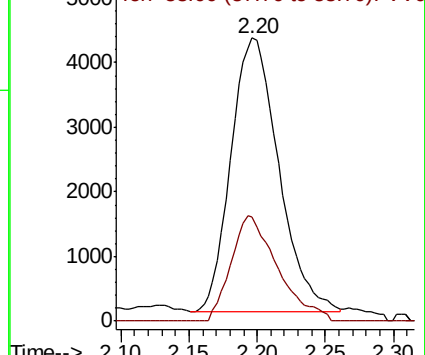
43 100

58 37.3 0.0 67.4



Abundance Ion 43.00 (42.70 to 43.70): VV018161.D (-251) (-)

Ion 58.00 (57.70 to 58.70): VV018161.D (-251) (-)



#14

Carbon disulfide

Concen: 4.709 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV018161.D

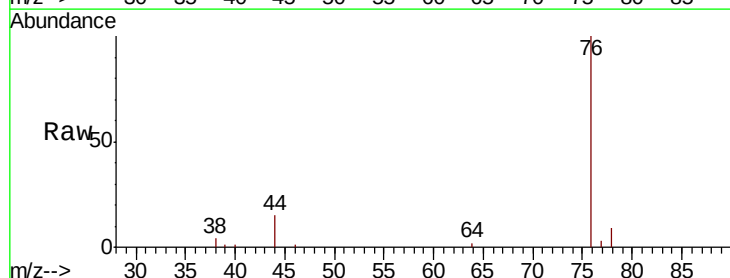
Acq: 09 Sep 2020 10:12

Tgt Ion: 76 Resp: 23041

Ion Ratio Lower Upper

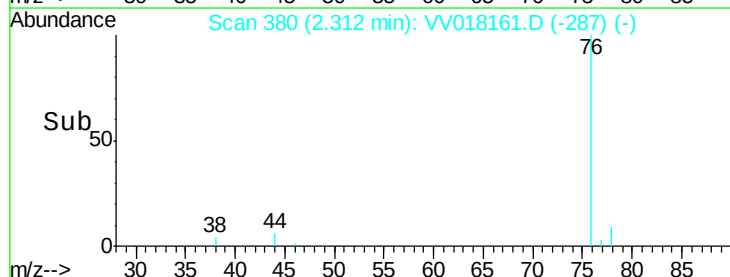
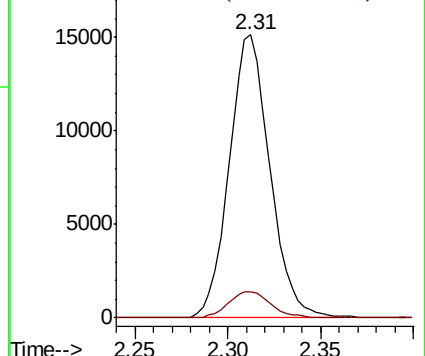
76 100

78 9.4 7.3 10.9

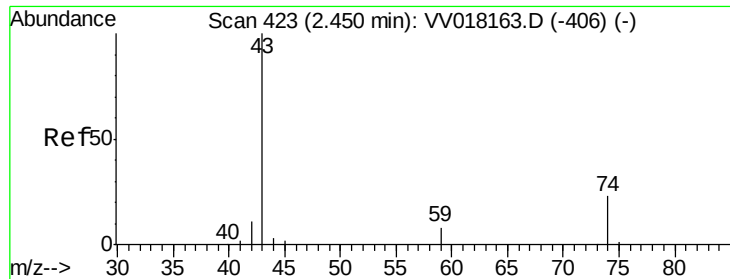


Abundance Ion 76.00 (75.70 to 76.70): VV018161.D (-287) (-)

Ion 78.00 (77.70 to 78.70): VV018161.D (-287) (-)



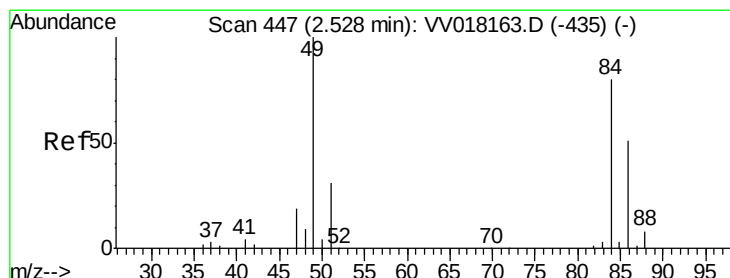
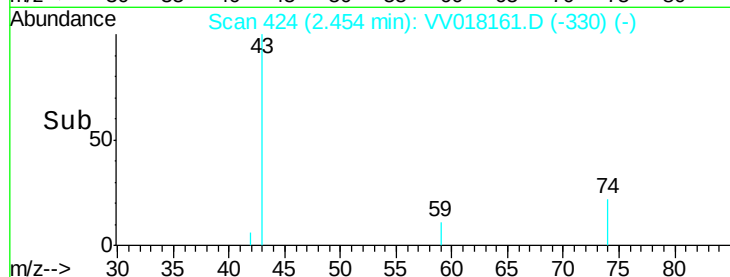
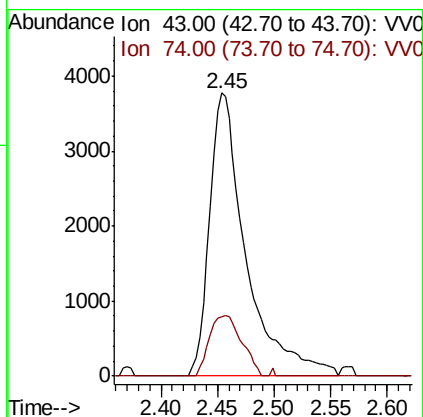
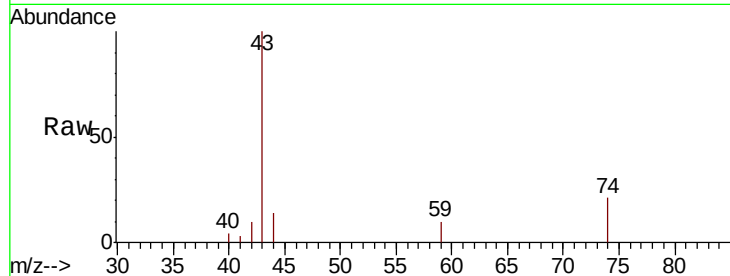




#15  
Methvl Acetate  
Concen: 4.020 ug/L  
RT: 2.45 min Scan# 424  
Delta R.T. 0.00 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

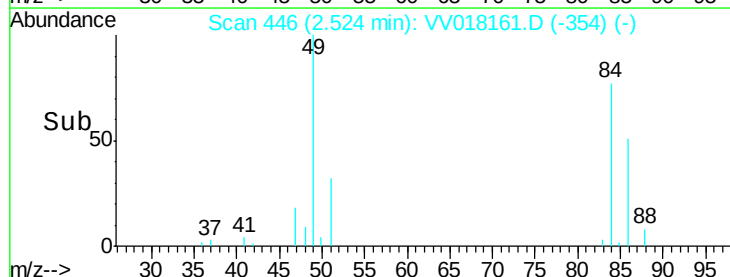
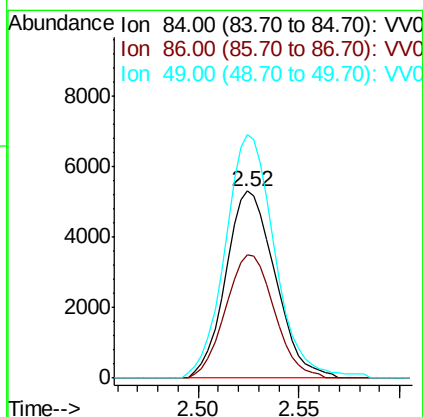
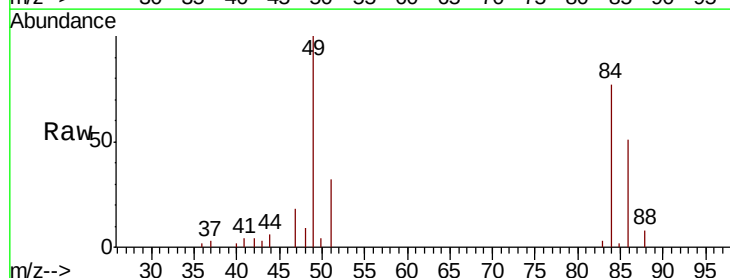
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00564

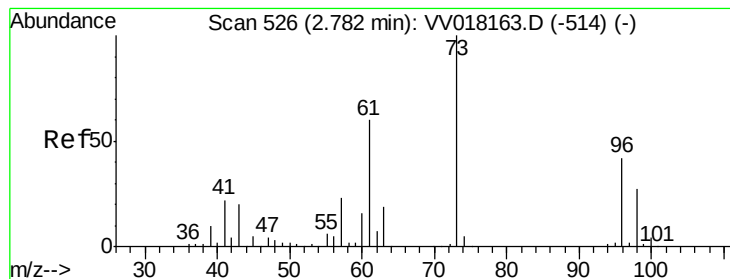
Tot Ion: 43 Resp: 8422  
Ion Ratio Lower Upper  
43 100  
74 19.0 18.4 27.6



#16  
Methylene chloride  
Concen: 4.208 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. -0.00 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

Tgt Ion: 84 Resp: 9109  
Ion Ratio Lower Upper  
84 100  
86 65.8 44.4 82.4  
49 130.1 87.2 162.0





#17

trans-1,2-Dichloroethene

Concen: 4.288 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

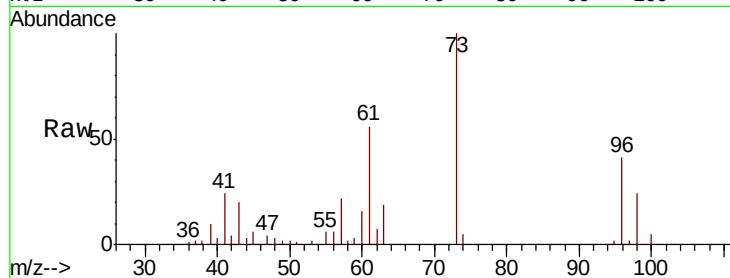
Tot Ion: 96 Resp: 7666

Ion Ratio Lower Upper

96 100

61 136.2 100.7 186.9

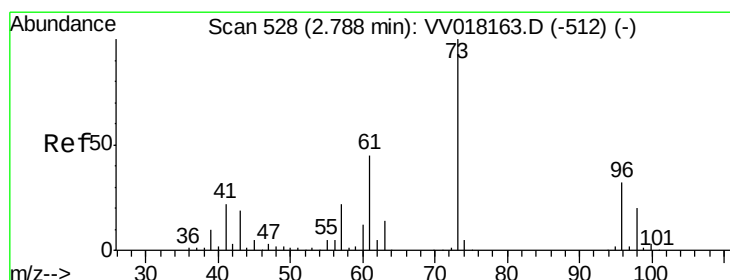
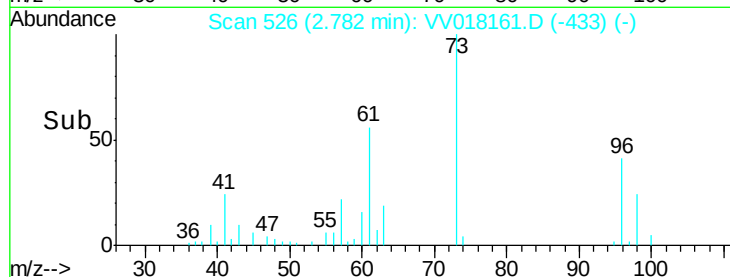
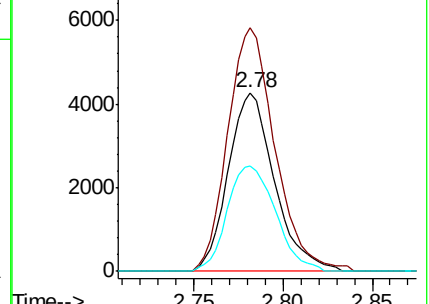
98 59.1 45.2 84.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 3.885 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

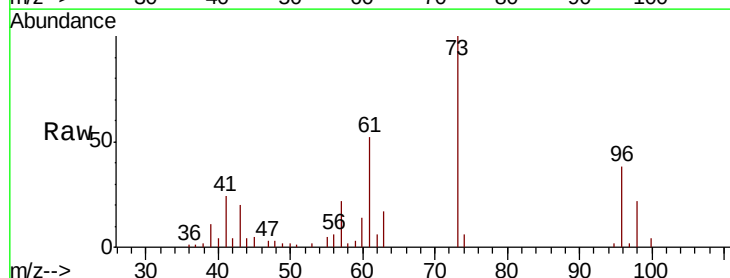
Tgt Ion: 73 Resp: 22575

Ion Ratio Lower Upper

73 100

43 20.3 15.4 23.0

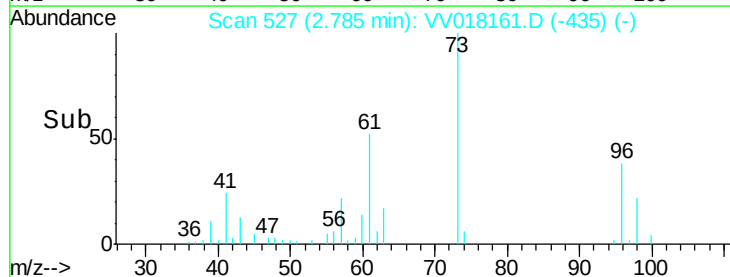
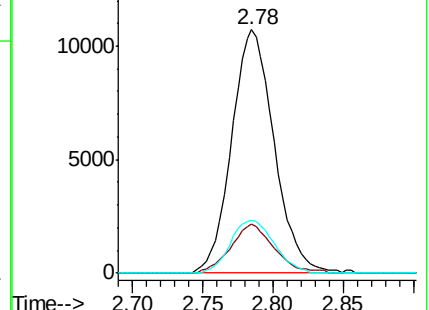
57 22.4 18.0 27.0

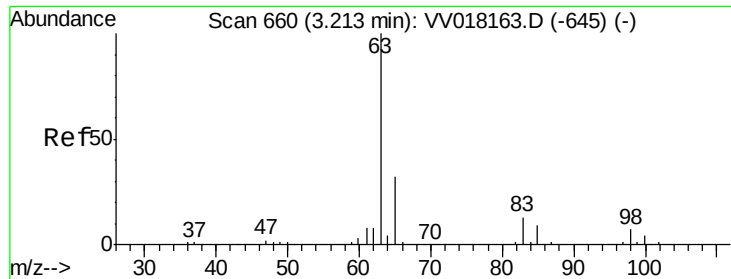


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

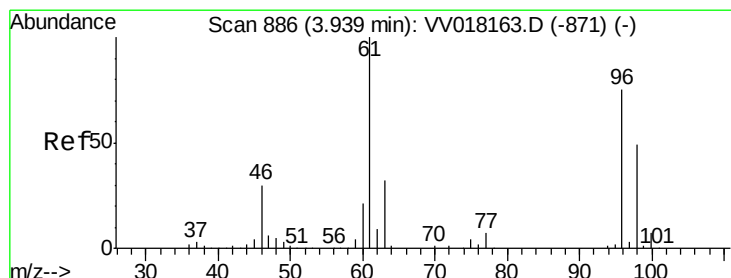
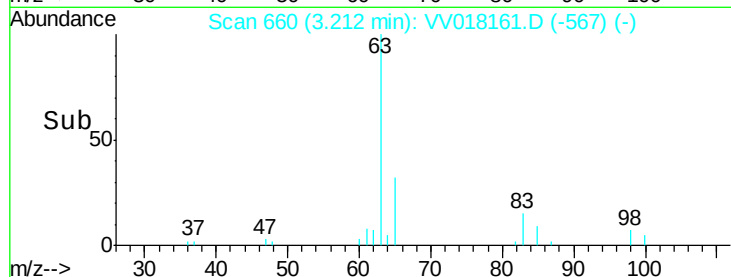
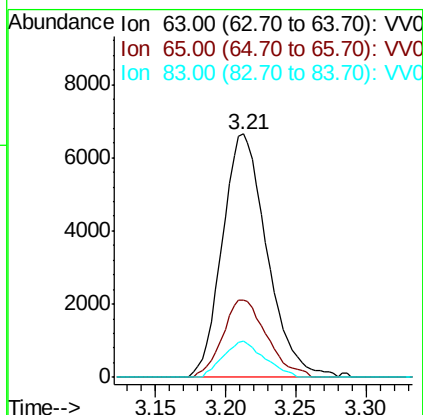
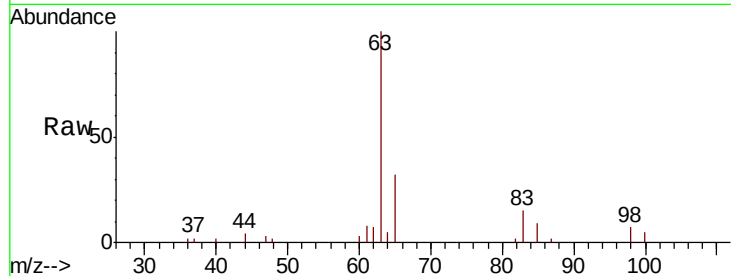




#19  
 1,1-Dichloroethane  
 Concen: 4.139 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

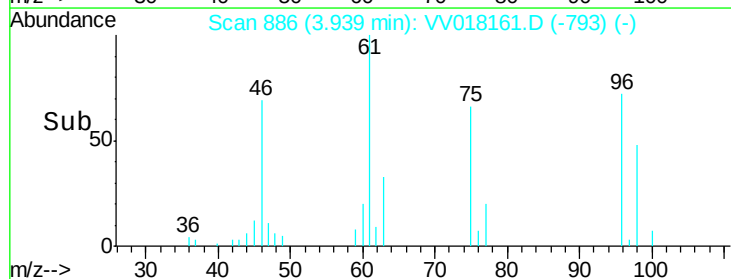
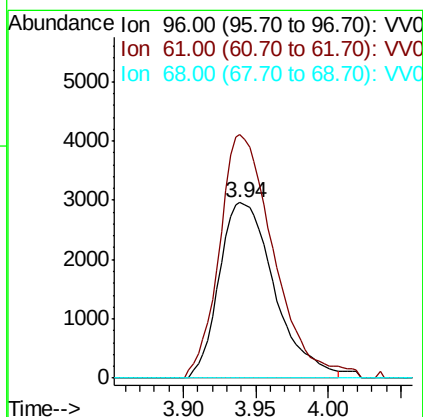
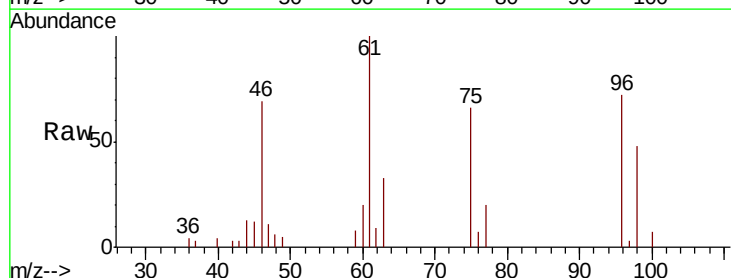
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

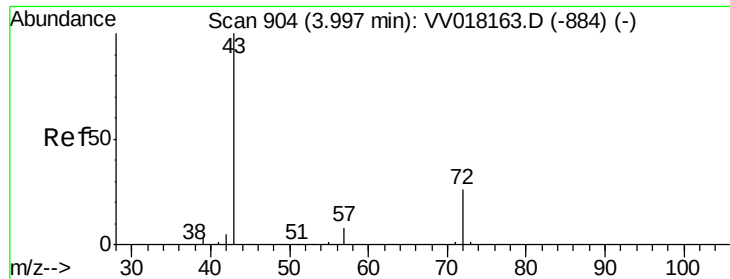
Tot Ion: 63 Resp: 14698  
 Ion Ratio Lower Upper  
 63 100  
 65 31.8 22.5 41.7  
 83 15.1 9.3 17.3



#20  
 cis-1,2-Dichloroethene  
 Concen: 4.040 ug/L  
 RT: 3.94 min Scan# 886  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

Tgt Ion: 96 Resp: 7865  
 Ion Ratio Lower Upper  
 96 100  
 61 138.9 93.6 173.8  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 6.071 ug/L

RT: 4.02 min Scan# 911

Delta R.T. 0.02 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

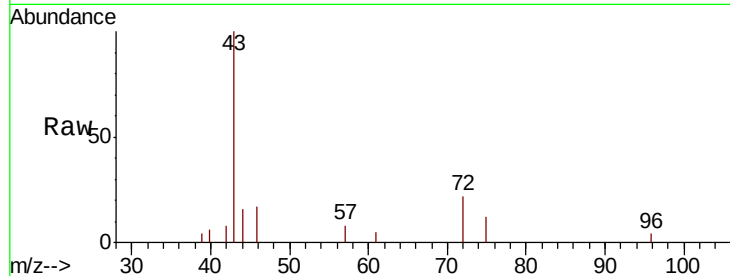
VSTD00564

Tot Ion: 43 Resp: 8730

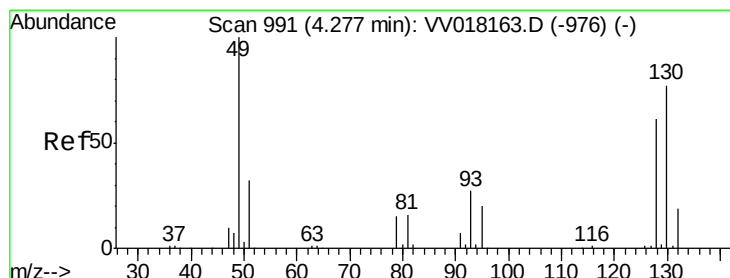
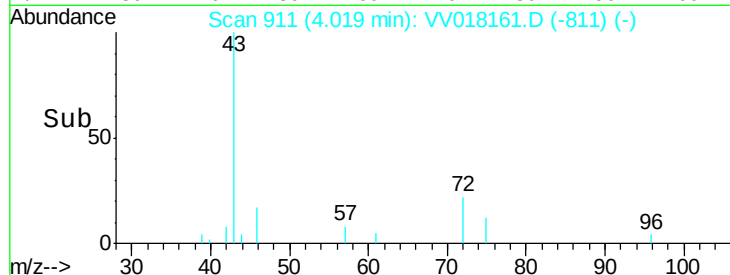
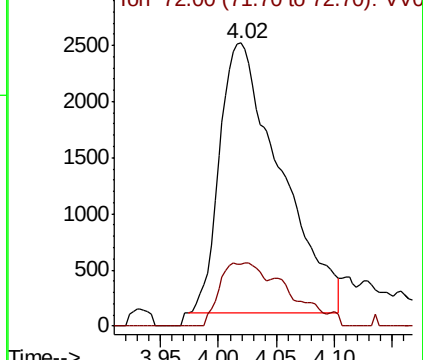
Ion Ratio Lower Upper

43 100

72 8.7 13.1 39.3#



Abundance Ion 43.00 (42.70 to 43.70): VV018161.D (-811) (-)



#23

Bromochloromethane

Concen: 3.993 ug/L

RT: 4.28 min Scan# 992

Delta R.T. 0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Tgt Ion: 128 Resp: 4074

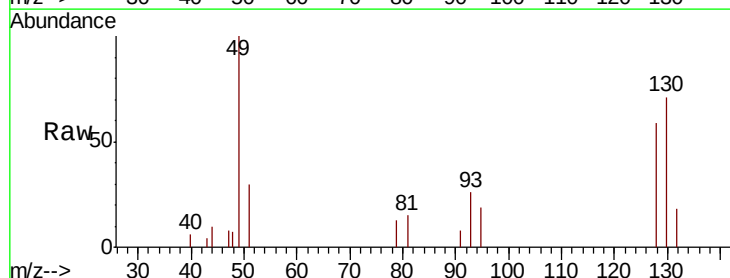
Ion Ratio Lower Upper

128 100

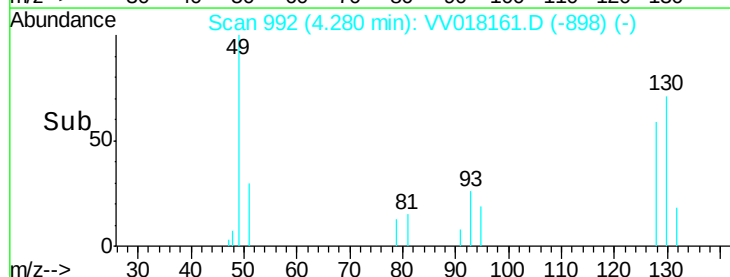
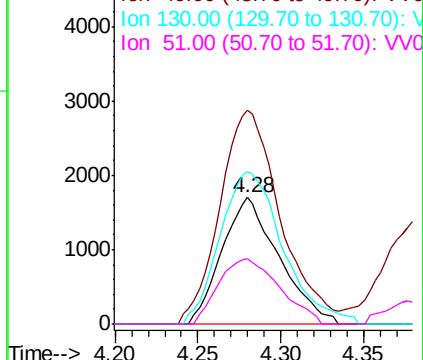
49 169.4 114.4 212.6

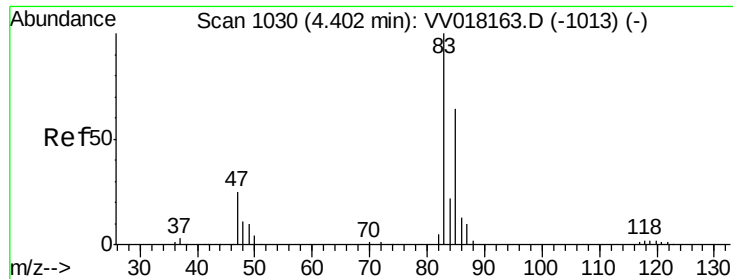
130 120.9 87.9 163.3

51 51.5 41.8 62.8



Abundance Ion 128.00 (127.70 to 128.70): VV018161.D (-898) (-)

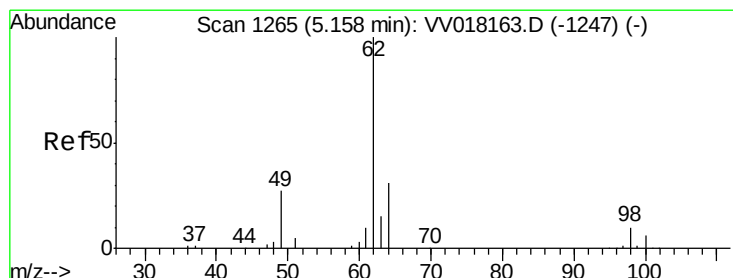
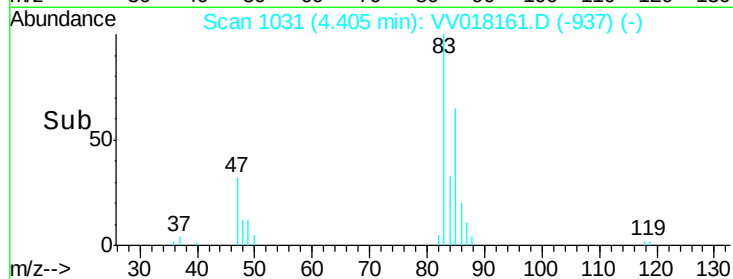
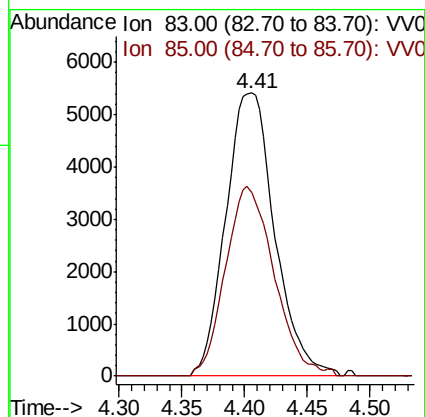
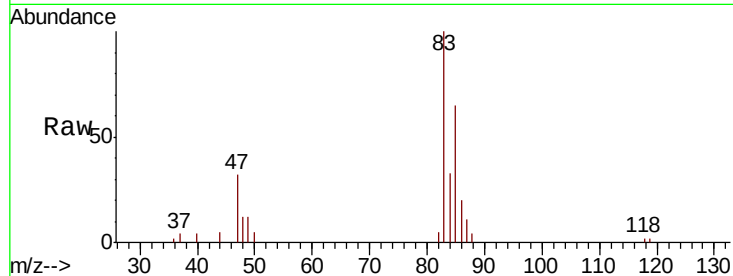




#25  
Chloroform  
Concen: 4.066 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

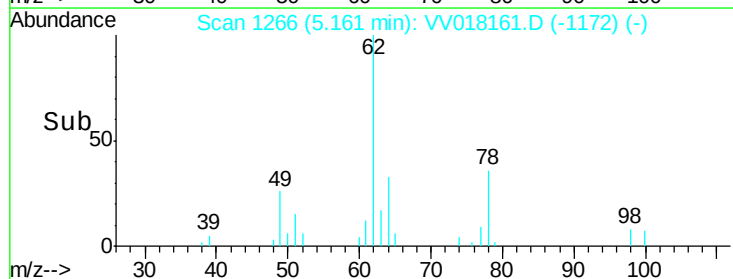
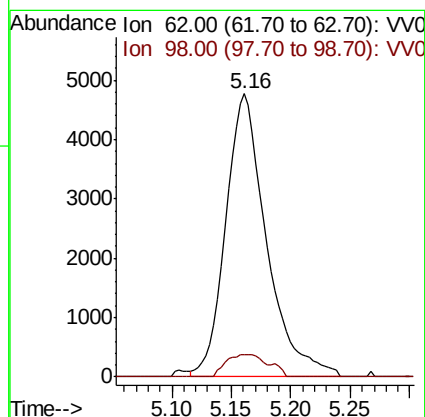
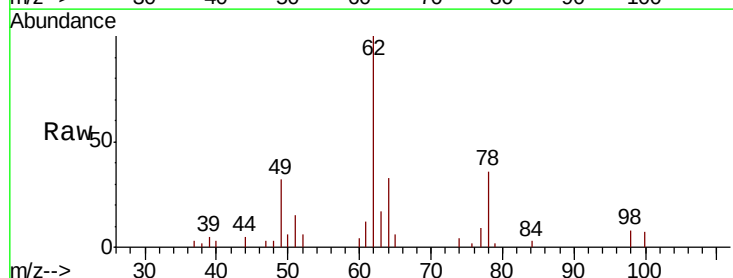
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00564

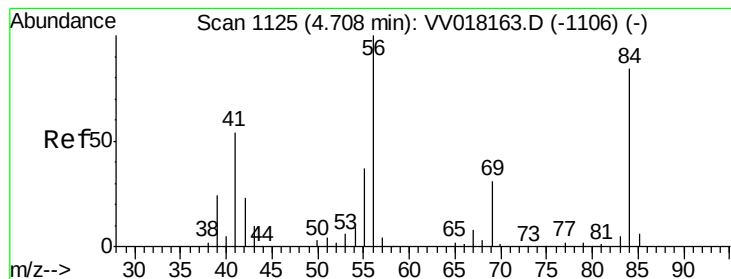
Tot Ion: 83 Resp: 14724  
Ion Ratio Lower Upper  
83 100  
85 65.0 45.0 83.6



#27  
1,2-Dichloroethane  
Concen: 3.964 ug/L  
RT: 5.16 min Scan# 1266  
Delta R.T. 0.00 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

Tgt Ion: 62 Resp: 11351  
Ion Ratio Lower Upper  
62 100  
98 8.1 7.6 11.4





#29

Cyclohexane

Concen: 3.845 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

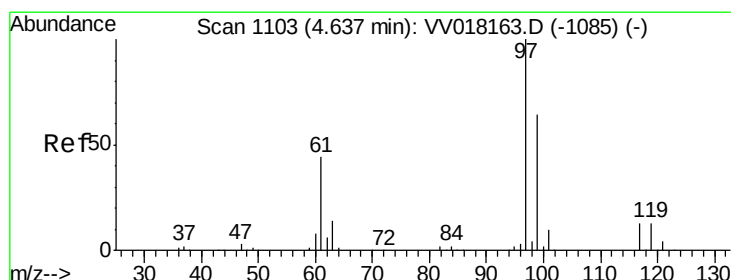
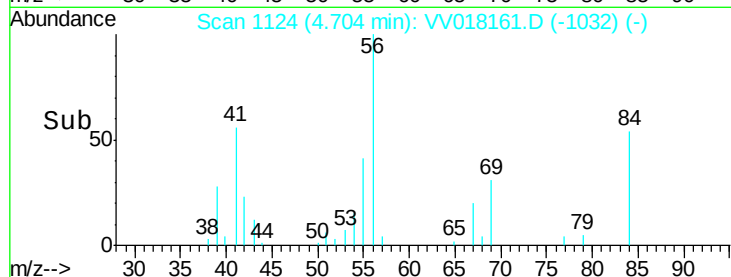
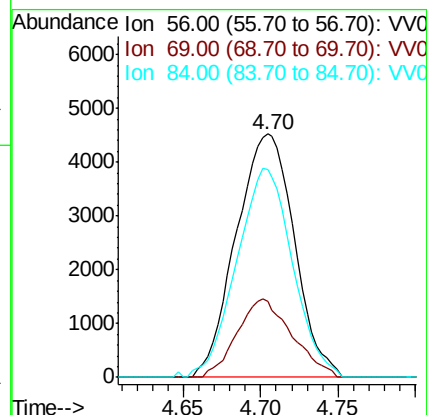
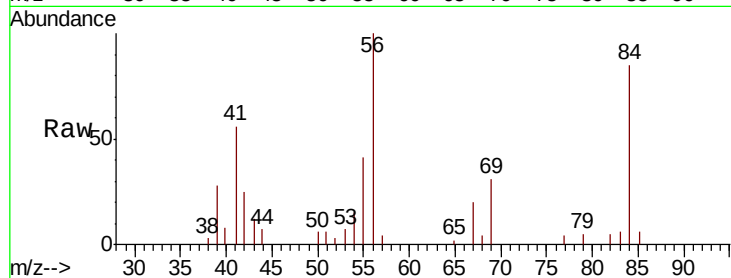
Tot Ion: 56 Resp: 11818

Ion Ratio Lower Upper

56 100

69 30.4 24.2 36.2

84 82.4 68.3 102.5



#30

1,1,1-Trichloroethane

Concen: 4.121 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

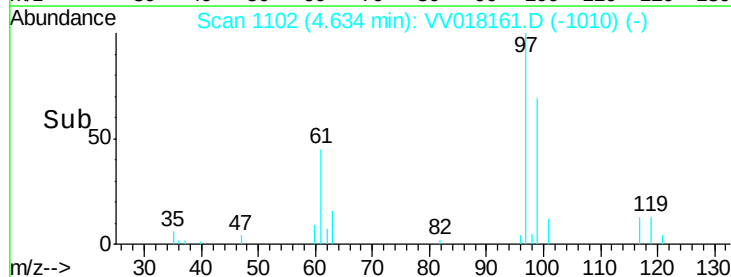
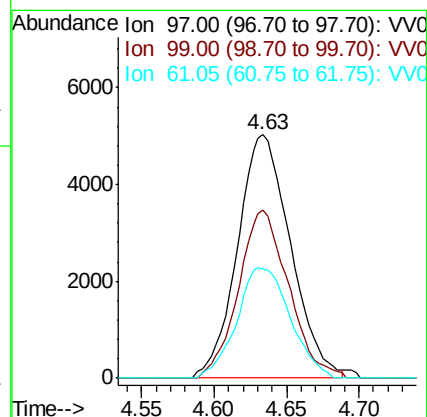
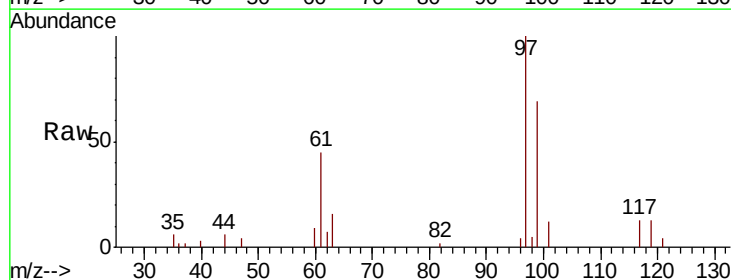
Tgt Ion: 97 Resp: 12785

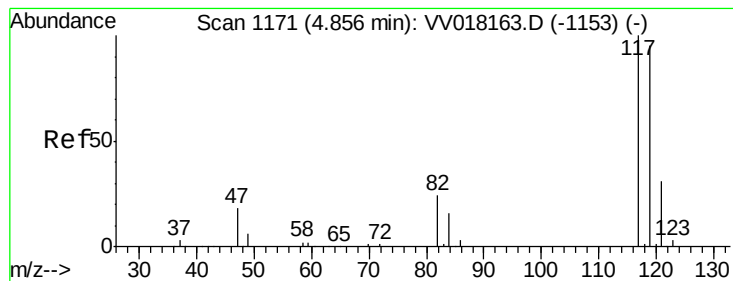
Ion Ratio Lower Upper

97 100

99 65.3 51.6 77.4

61 45.8 34.9 52.3





#31

Carbon tetrachloride

Concen: 4.357 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

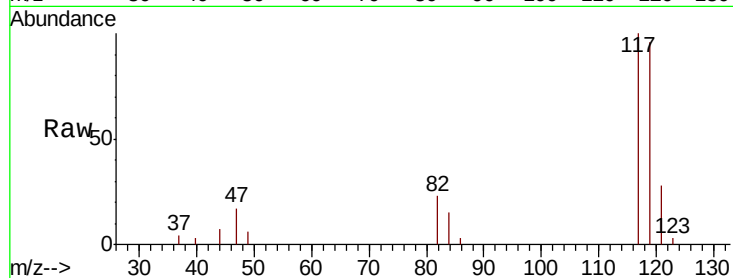
VSTD00564

Tot Ion:117 Resp: 11409

Ion Ratio Lower Upper

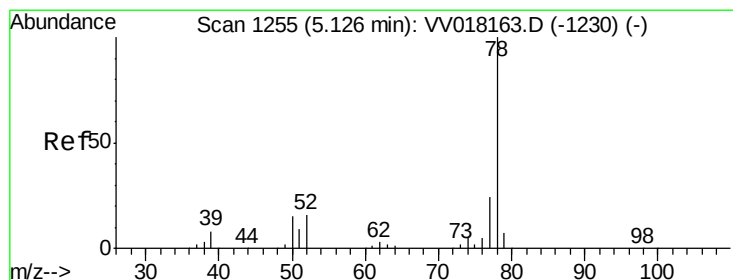
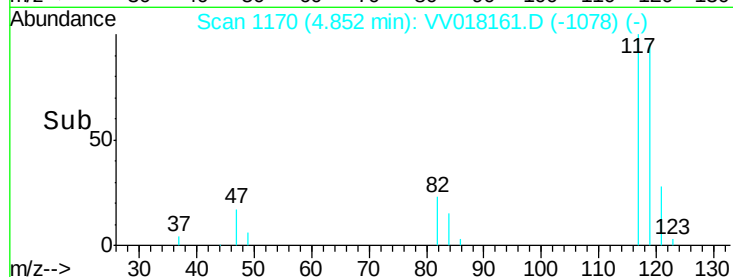
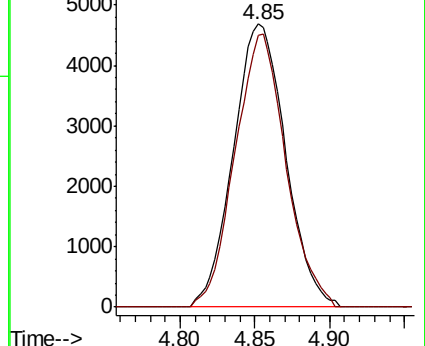
117 100

119 93.6 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: 3.972 ug/L

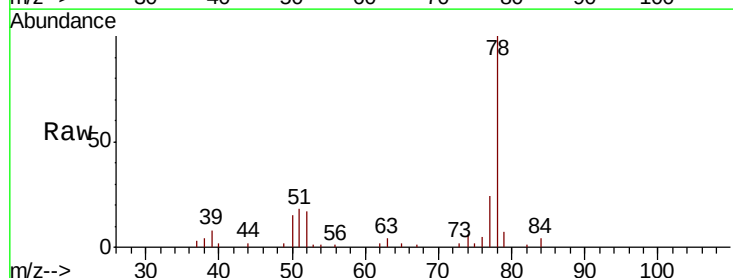
RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

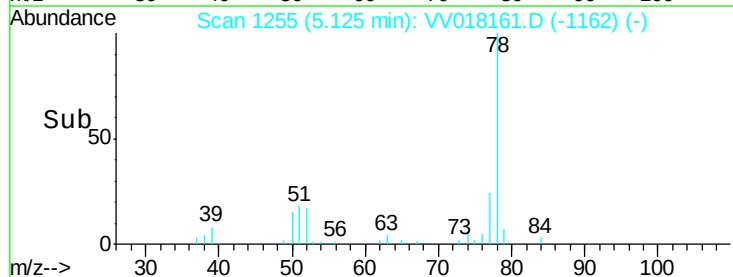
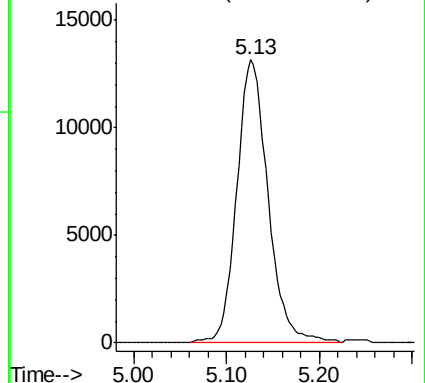
Lab File: VV018161.D

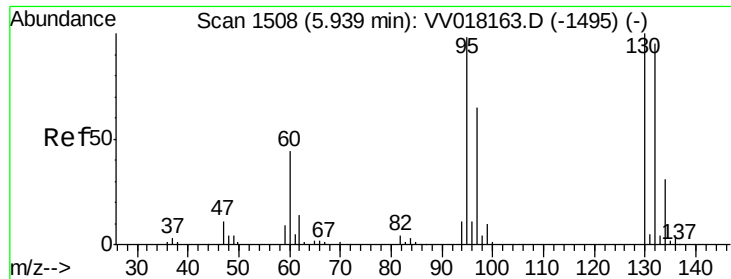
Acq: 09 Sep 2020 10:12

Tgt Ion: 78 Resp: 30918



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 4.315 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

Tot Ion: 95 Resp: 8941

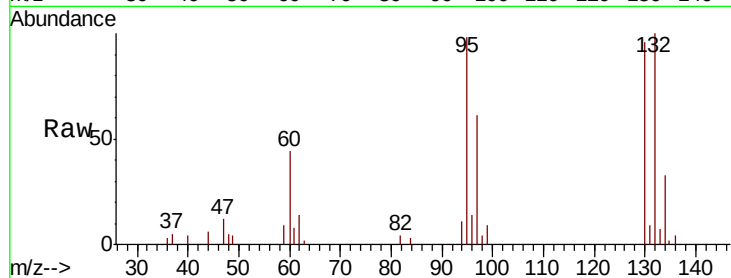
Ion Ratio Lower Upper

95 100

97 62.3 46.3 85.9

132 102.5 68.1 126.5

130 98.4 71.5 132.9

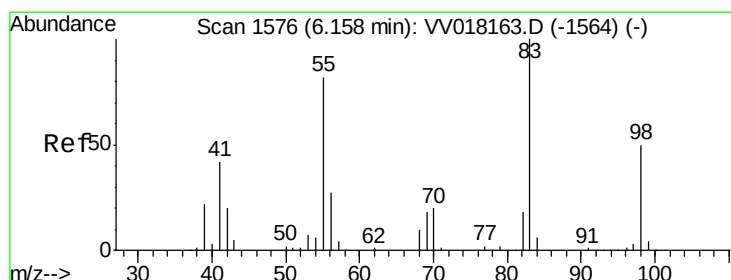
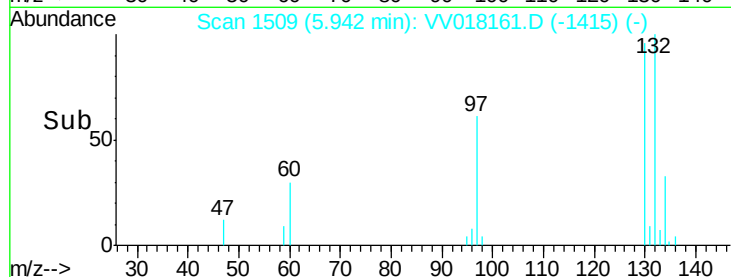
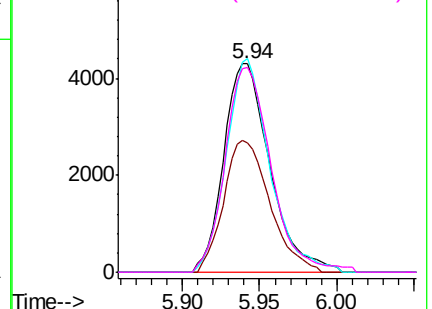


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 3.779 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

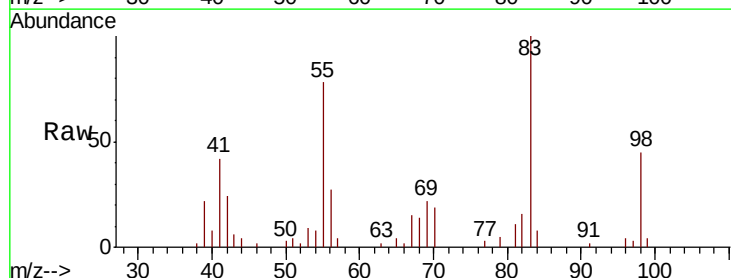
Tgt Ion: 83 Resp: 11757

Ion Ratio Lower Upper

83 100

55 82.5 63.4 95.2

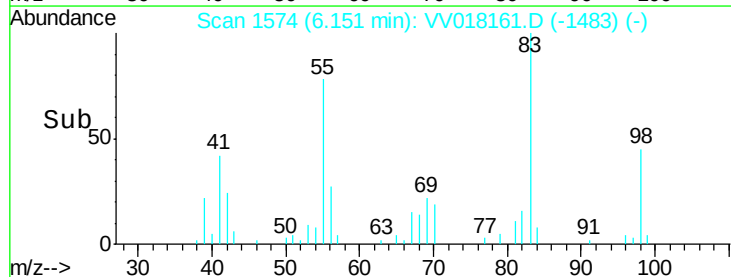
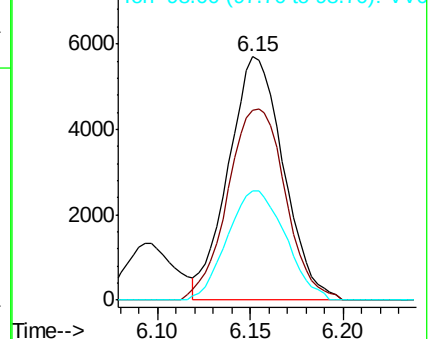
98 47.5 38.8 58.2



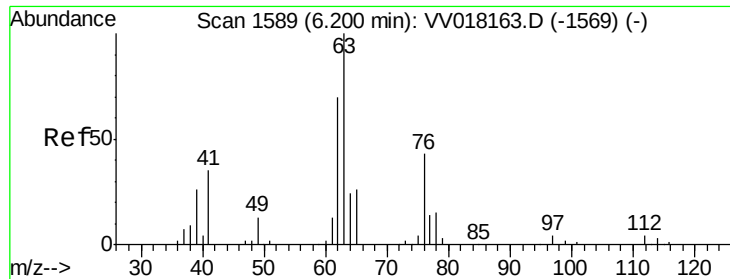
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



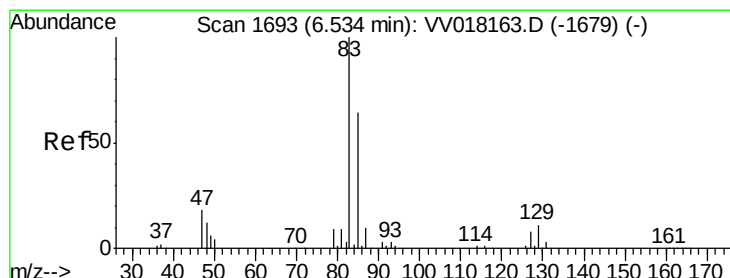
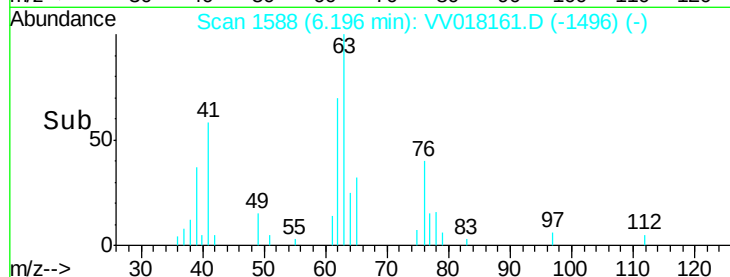
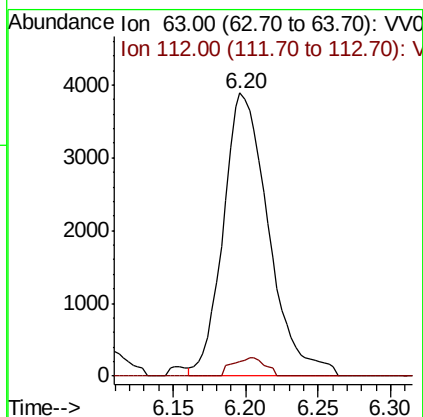
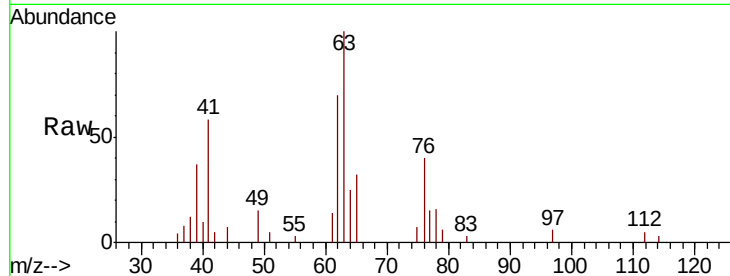




#37  
 1,2-Dichloropropane  
 Concen: 3.994 ug/L  
 RT: 6.20 min Scan# 1588  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

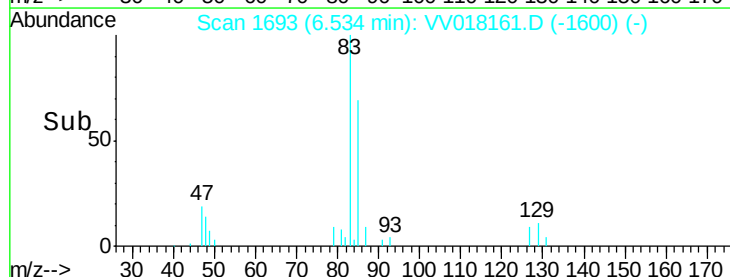
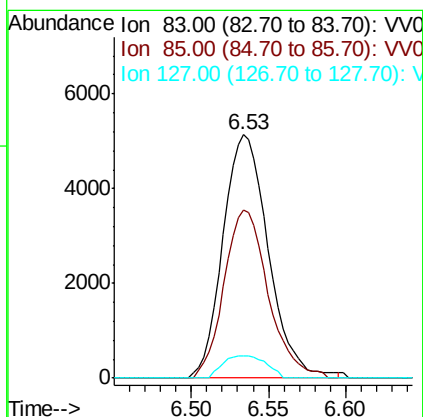
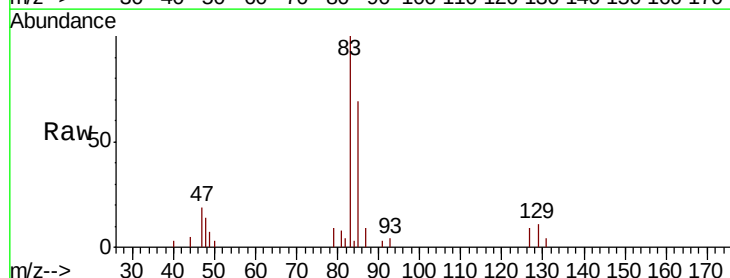
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

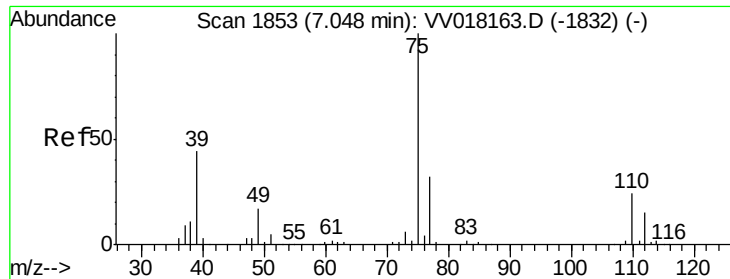
Tot Ion: 63 Resp: 8432  
 Ion Ratio Lower Upper  
 63 100  
 112 4.6 3.4 5.2



#38  
 Bromodichloromethane  
 Concen: 3.953 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

Tgt Ion: 83 Resp: 10455  
 Ion Ratio Lower Upper  
 83 100  
 85 69.2 44.7 82.9  
 127 9.2 6.7 10.1

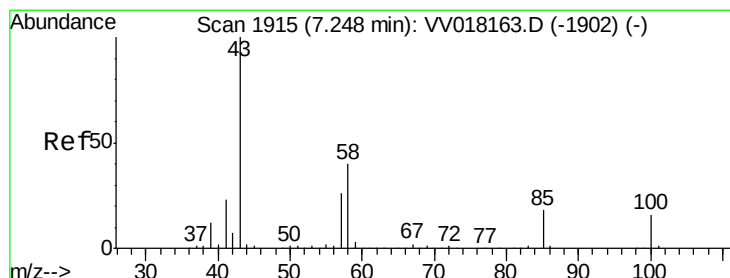
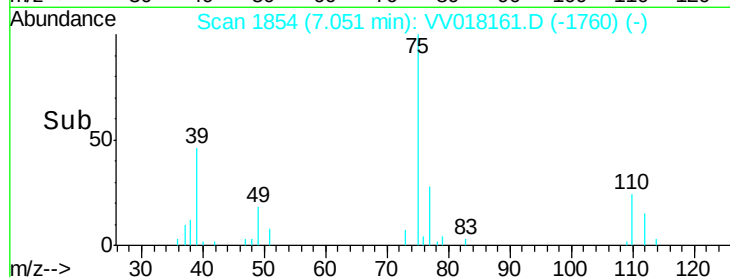
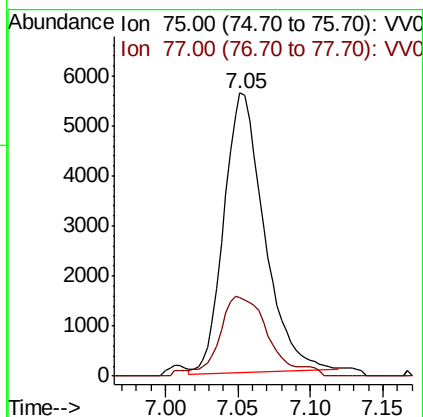
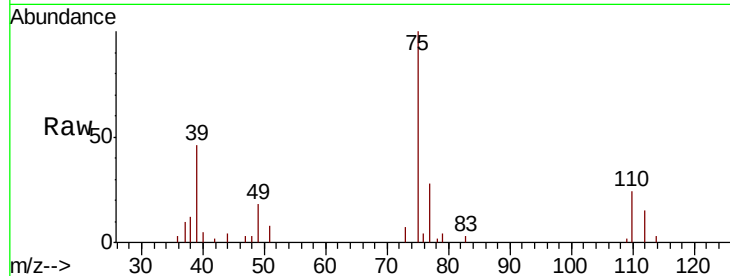




#39  
 cis-1,3-Dichloropropene  
 Concen: 3.571 ug/L  
 RT: 7.05 min Scan# 1854  
 Delta R.T. 0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

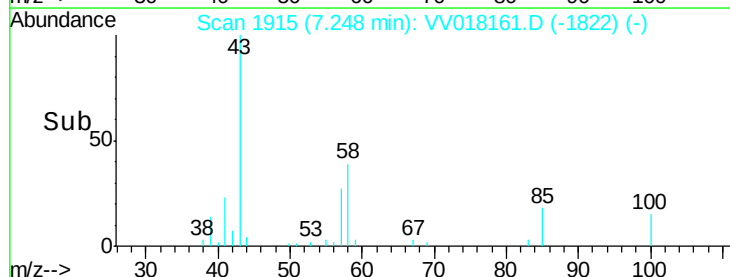
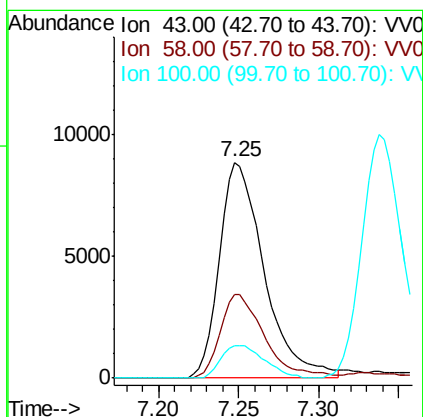
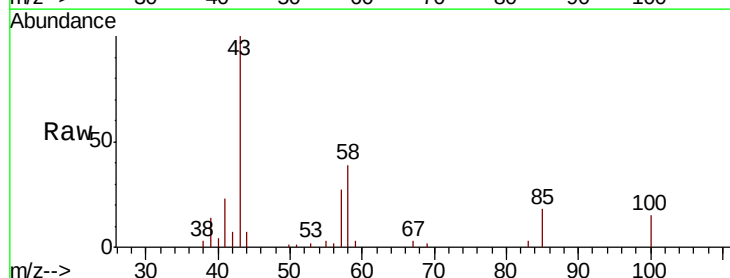
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

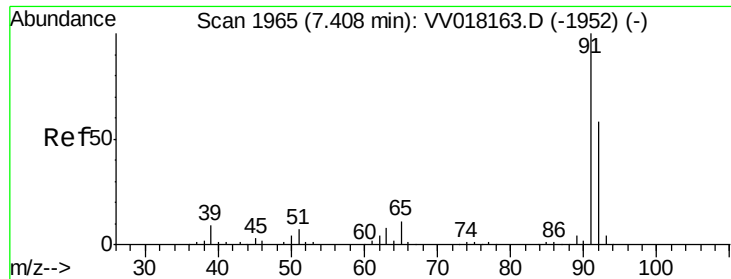
Tot Ion: 75 Resp: 10829  
 Ion Ratio Lower Upper  
 75 100  
 77 27.9 22.3 41.3



#40  
 4-Methyl-2-pentanone  
 Concen: 6.284 ug/L  
 RT: 7.25 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

Tgt Ion: 43 Resp: 17053  
 Ion Ratio Lower Upper  
 43 100  
 58 38.2 32.4 48.6  
 100 14.6 12.7 19.1





#42

Toluene

Concen: 3.733 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

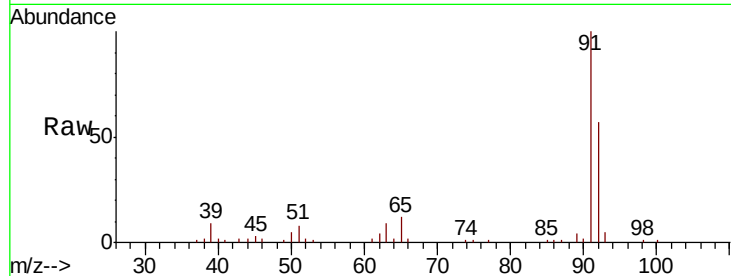
VSTD00564

Tot Ion: 91 Resp: 30459

Ion Ratio Lower Upper

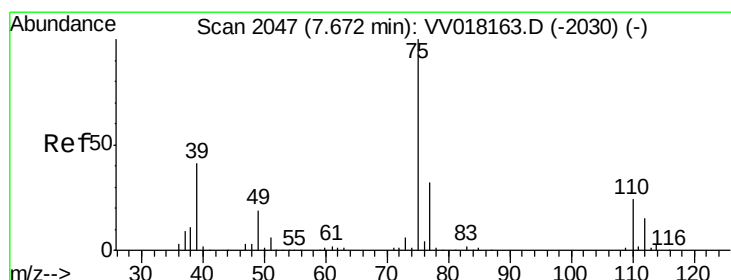
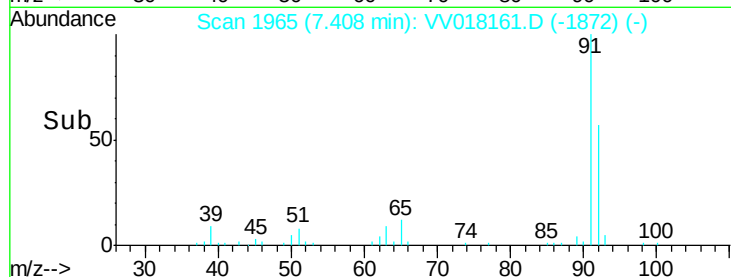
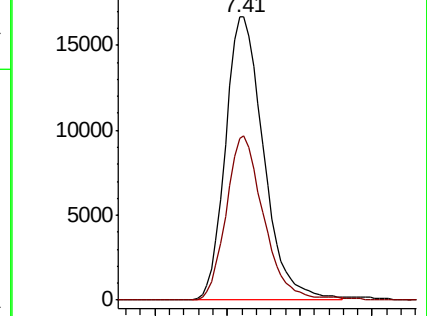
91 100

92 57.0 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 3.776 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.00 min

Lab File: VV018161.D

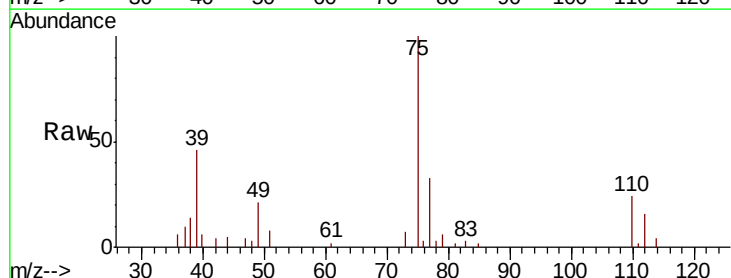
Acq: 09 Sep 2020 10:12

Tgt Ion: 75 Resp: 10904

Ion Ratio Lower Upper

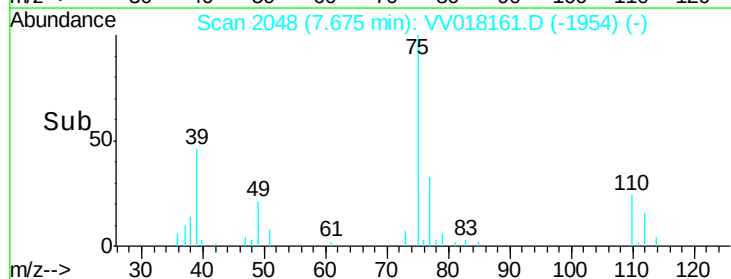
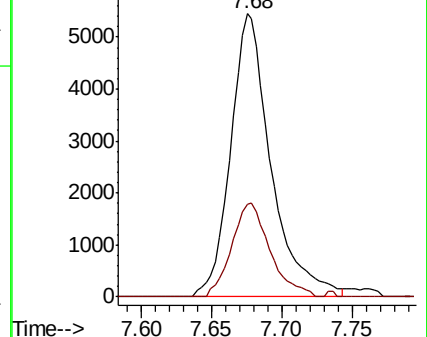
75 100

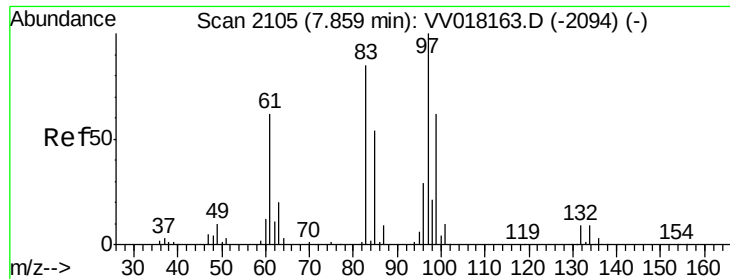
77 32.9 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

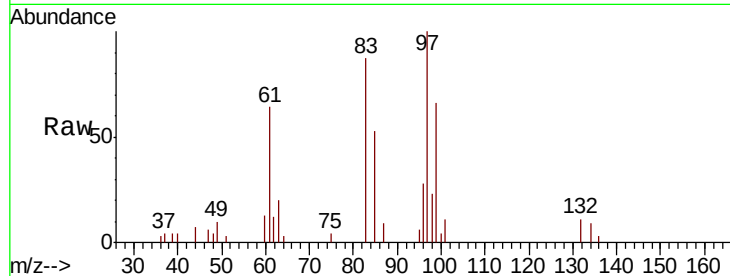




#45  
 1,1,2-Trichloroethane  
 Concen: 3.934 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. 0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

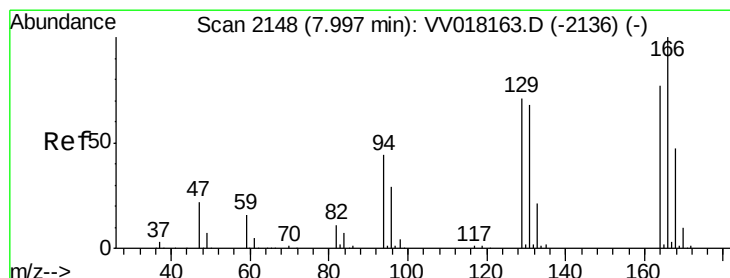
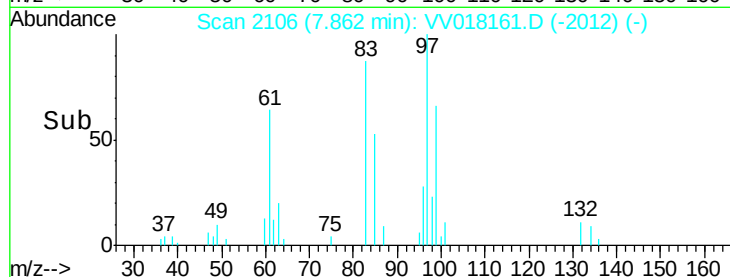
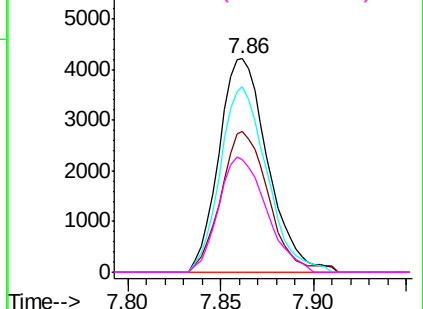
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

| Tot Ion: | 97    | Resp: | 7712  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 66.0  | 43.7  | 81.1  |
| 83       | 86.6  | 59.9  | 111.3 |
| 85       | 52.7  | 37.6  | 69.8  |



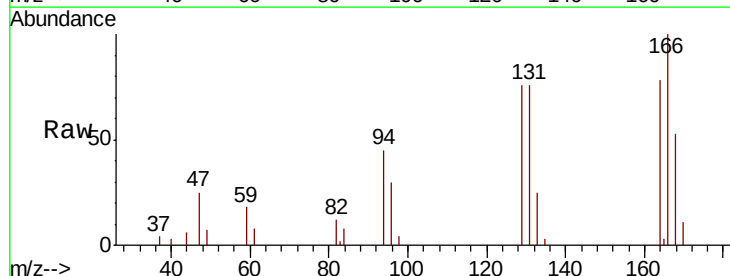
Abundance

Ion 97.00 (96.70 to 97.70): VV018161.D (-2094) (-)



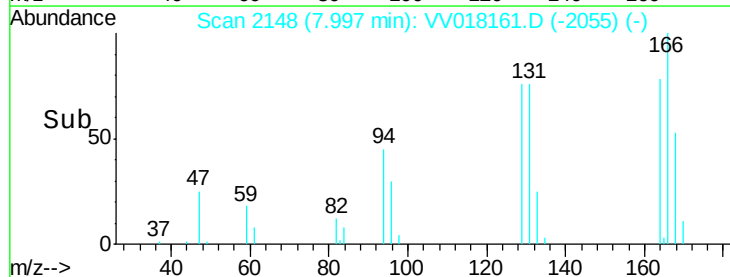
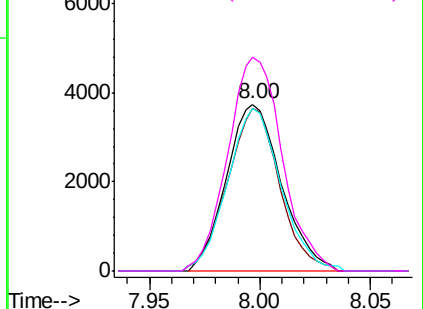
#46  
 Tetrachloroethene  
 Concen: 4.195 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

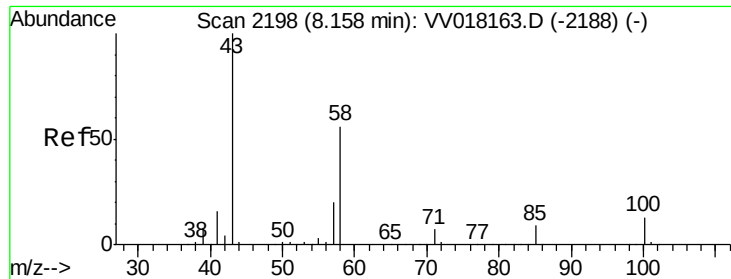
| Tgt Ion: | 164   | Resp: | 6490  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 97.4  | 64.5  | 119.7 |
| 131      | 97.4  | 61.8  | 114.8 |
| 166      | 127.9 | 90.6  | 168.2 |



Abundance

Ion 164.00 (163.70 to 164.70): VV018161.D (-2136) (-)

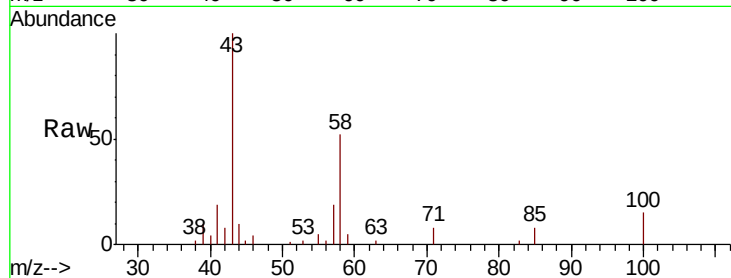




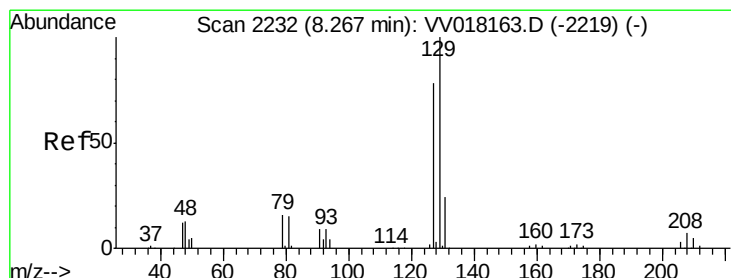
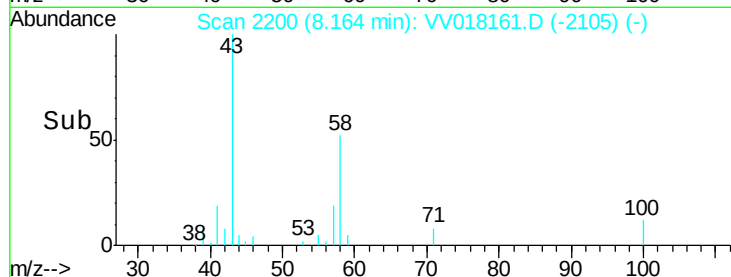
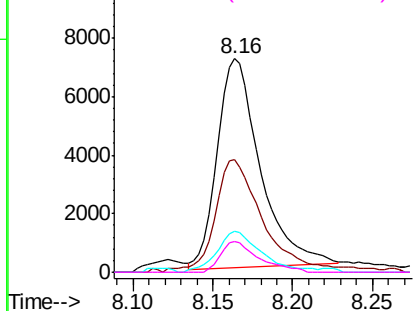
#48  
2-Hexanone  
Concen: 6.062 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. 0.01 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00564

Tot Ion: 43 Resp: 13202  
Ion Ratio Lower Upper  
43 100  
58 60.3 44.8 67.2  
57 19.7 15.8 23.6  
100 13.1 10.2 15.4

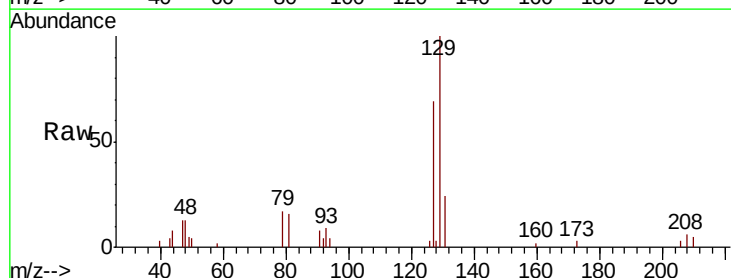


Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0

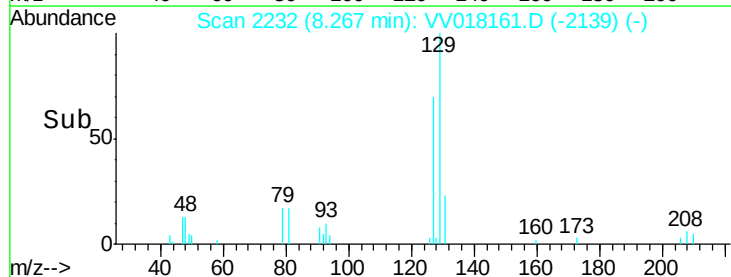
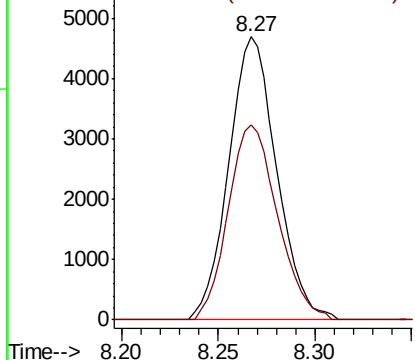


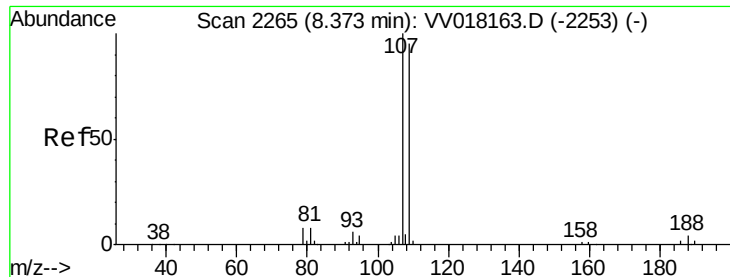
#49  
Dibromochloromethane  
Concen: 4.126 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

Tgt Ion: 129 Resp: 8084  
Ion Ratio Lower Upper  
129 100  
127 68.9 54.5 101.1



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V

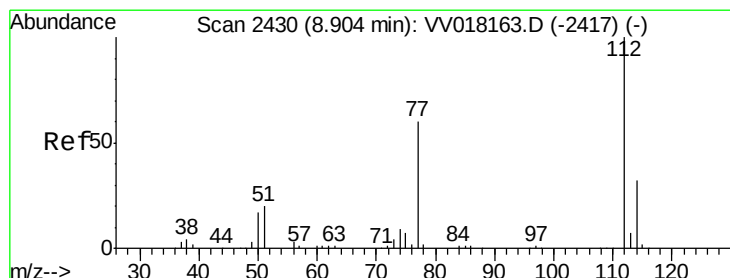
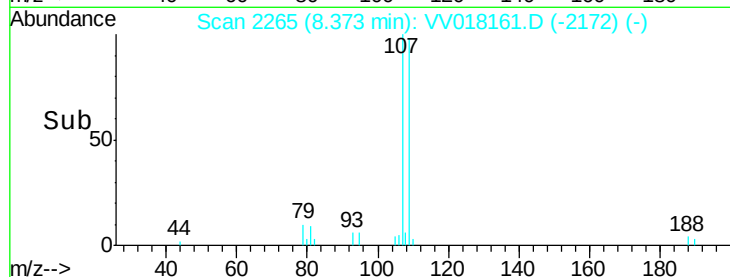
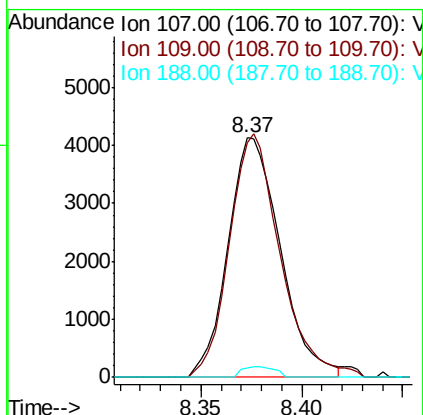
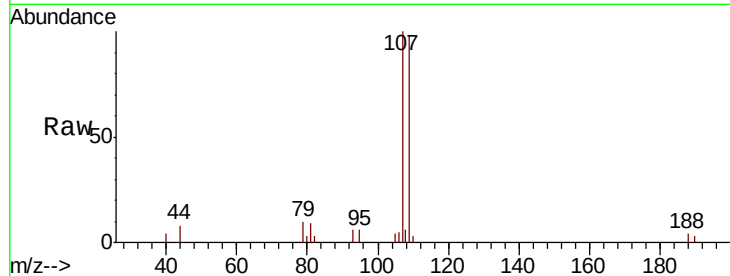




#50  
 1,2-Dibromoethane  
 Concen: 3.688 ug/L  
 RT: 8.37 min Scan# 2265  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

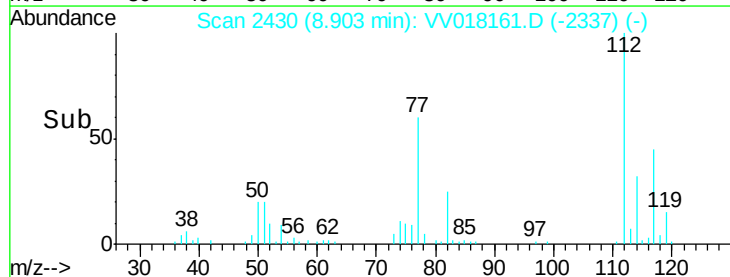
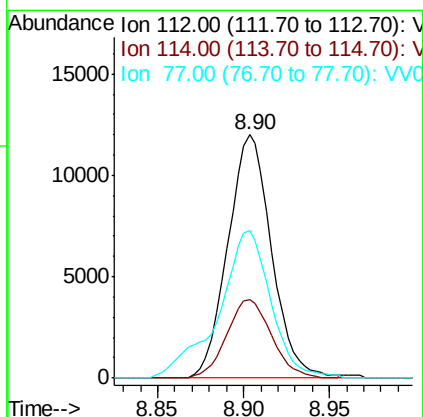
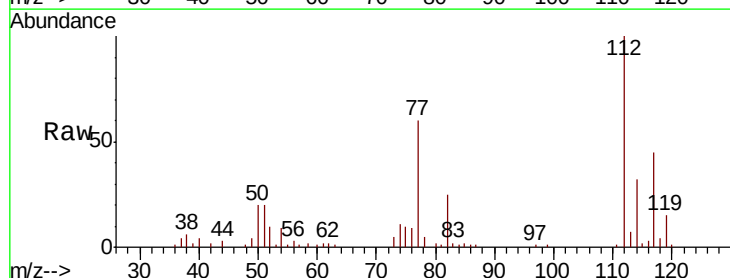
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

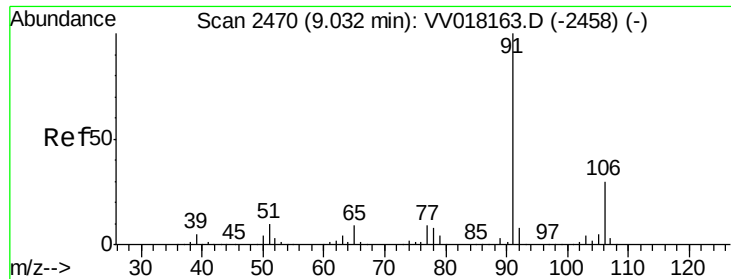
Tot Ion:107 Resp: 7513  
 Ion Ratio Lower Upper  
 107 100  
 109 97.9 66.1 122.8  
 188 4.1 3.2 4.8



#51  
 Chlorobenzene  
 Concen: 4.013 ug/L  
 RT: 8.90 min Scan# 2430  
 Delta R.T. -0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

Tgt Ion:112 Resp: 21150  
 Ion Ratio Lower Upper  
 112 100  
 114 32.4 22.6 42.0  
 77 60.4 48.0 72.0





#52

Ethylbenzene

Concen: 3.634 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

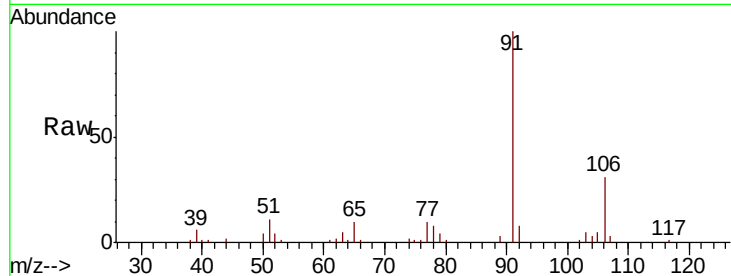
VSTD00564

Tot Ion: 91 Resp: 32389

Ion Ratio Lower Upper

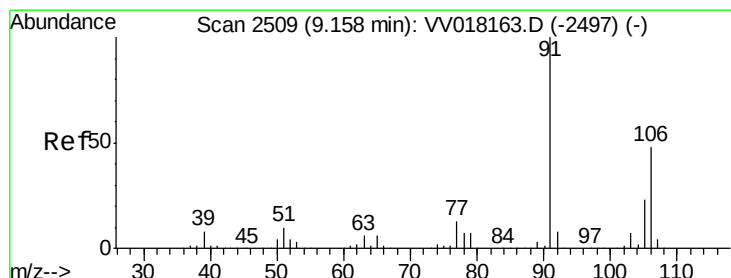
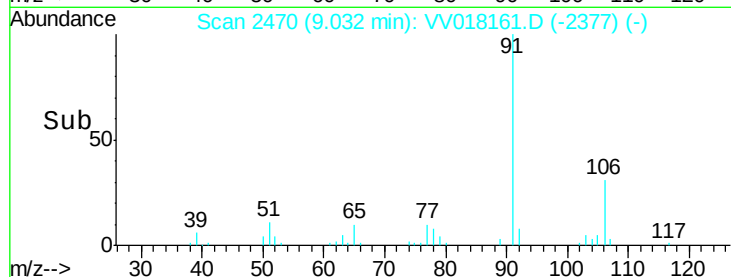
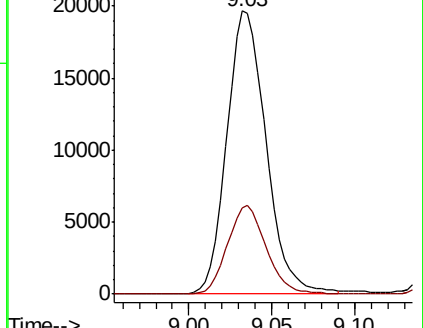
91 100

106 30.6 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV018161.D (-2458) (-)

Ion 106.00 (105.70 to 106.70): VV018161.D (-2458) (-)



#53

m,p-Xylene

Concen: 3.529 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV018161.D

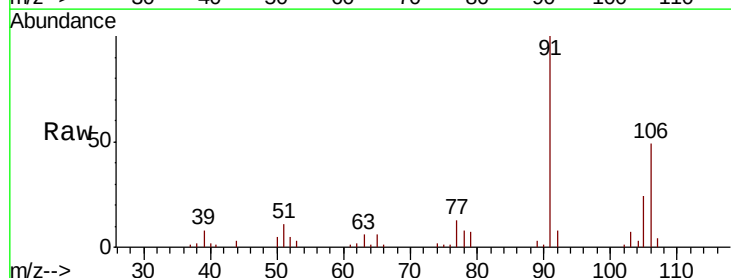
Acq: 09 Sep 2020 10:12

Tgt Ion: 106 Resp: 11592

Ion Ratio Lower Upper

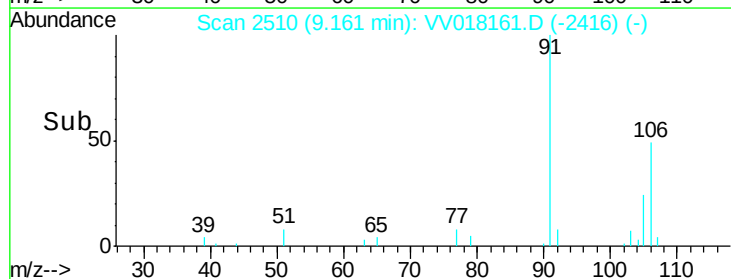
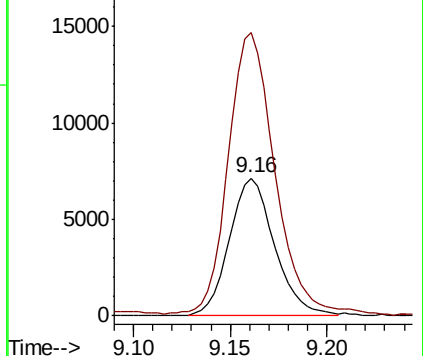
106 100

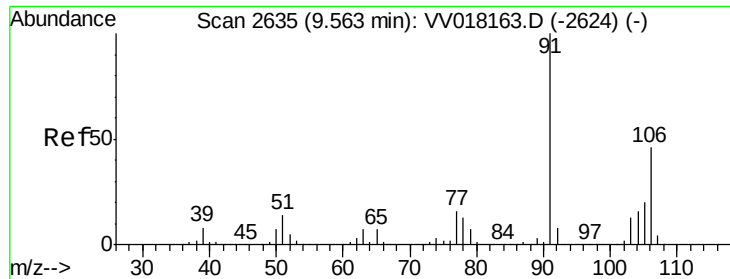
91 205.9 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV018161.D (-2497) (-)

Ion 91.00 (90.70 to 91.70): VV018161.D (-2497) (-)

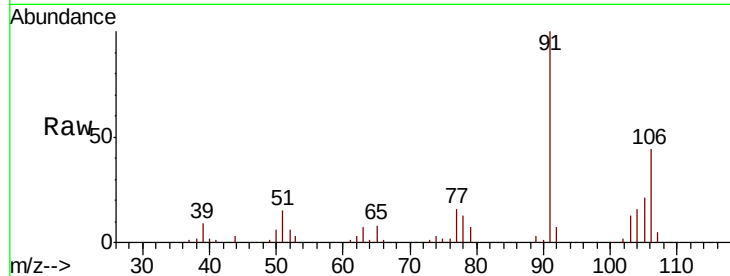




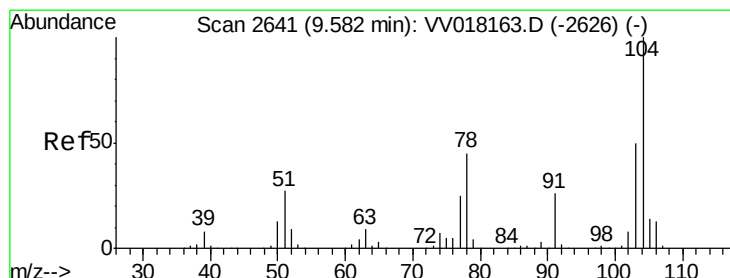
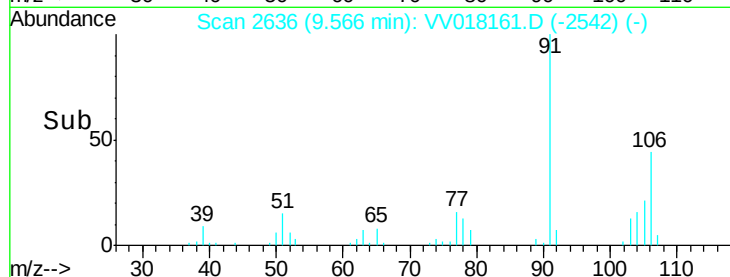
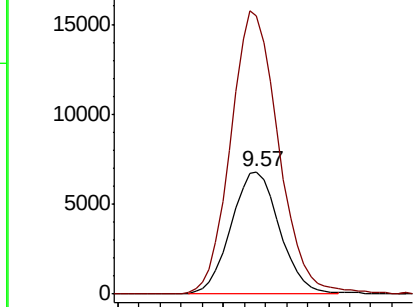
#54  
o-xylene  
Concen: 3.355 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00564

Tot Ion:106 Resp: 10882  
Ion Ratio Lower Upper  
106 100  
91 227.7 152.2 282.6

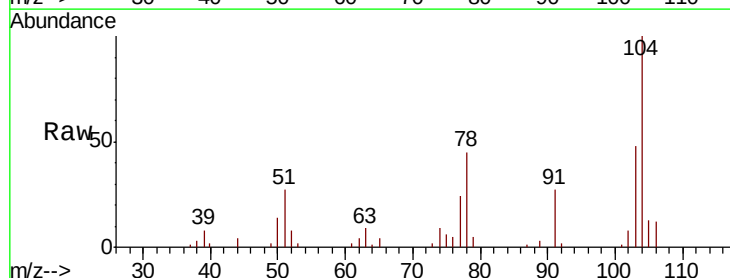


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

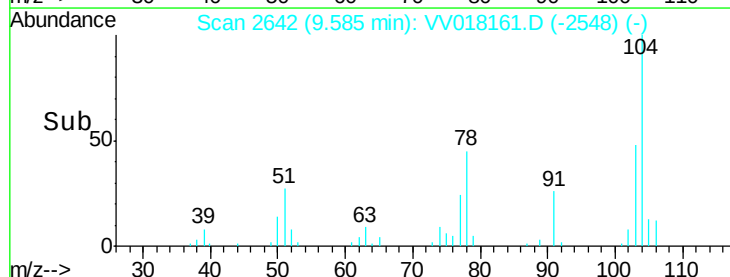
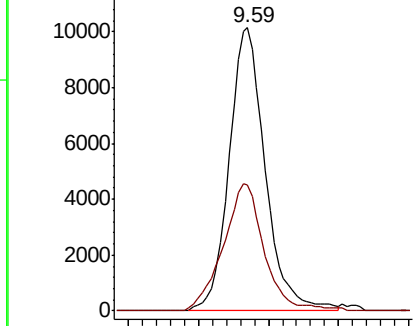


#55  
Styrene  
Concen: 3.281 ug/L  
RT: 9.59 min Scan# 2642  
Delta R.T. 0.00 min  
Lab File: VV018161.D  
Acq: 09 Sep 2020 10:12

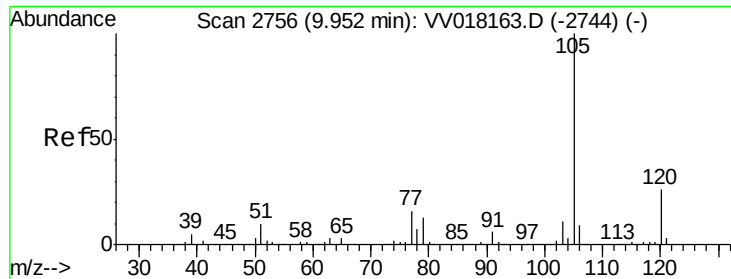
Tgt Ion:104 Resp: 18182  
Ion Ratio Lower Upper  
104 100  
78 44.6 31.4 58.2



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VV0







#56

Isopropylbenzene

Concen: 3.432 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

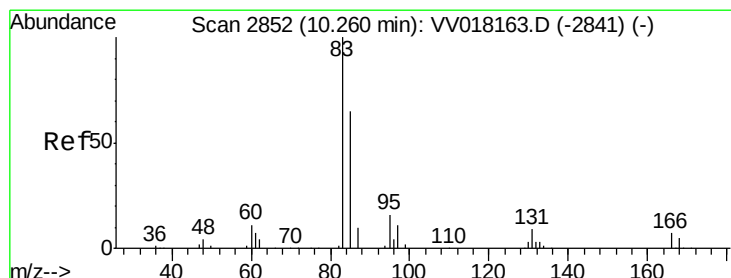
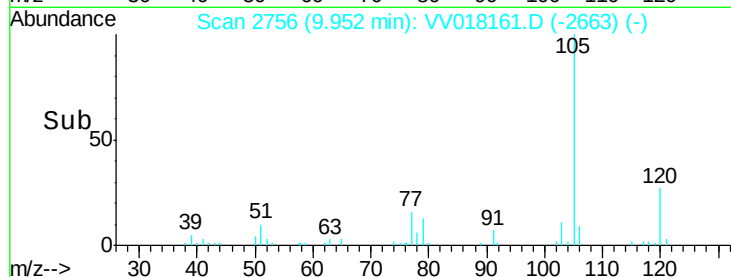
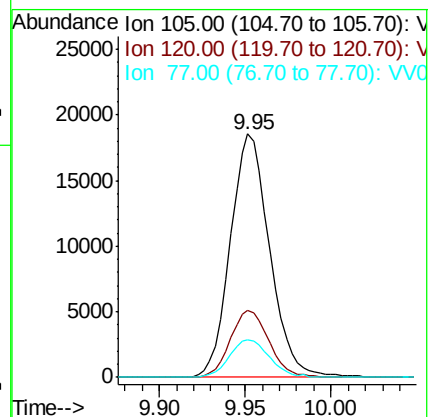
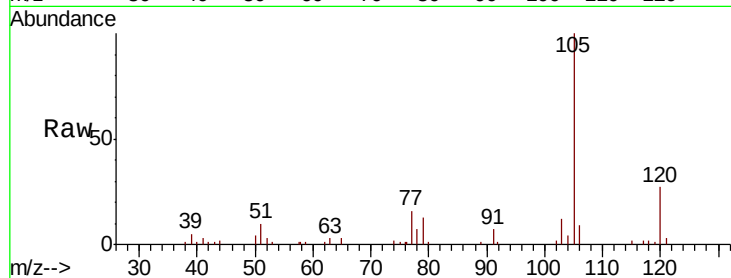
Tot Ion:105 Resp: 29454

Ion Ratio Lower Upper

105 100

120 26.9 20.9 31.3

77 15.5 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 3.370 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

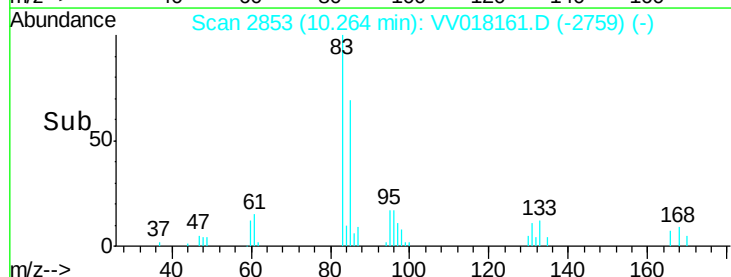
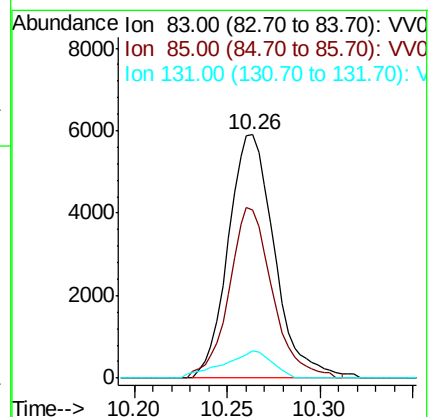
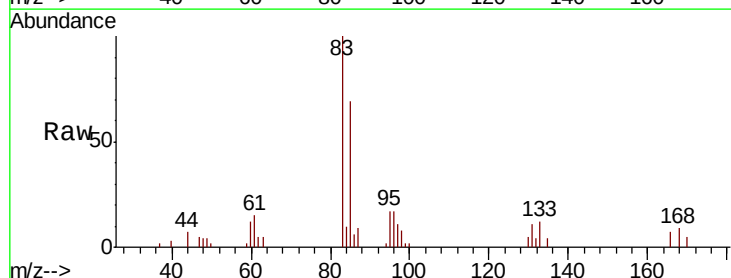
Tgt Ion: 83 Resp: 10175

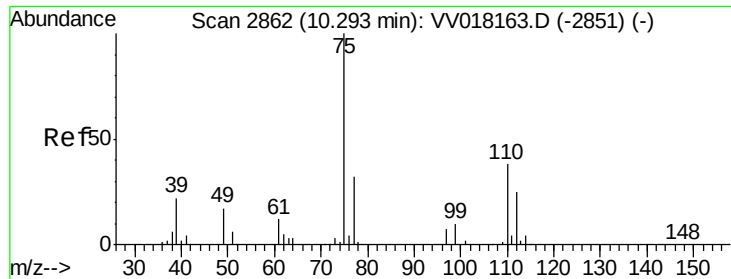
Ion Ratio Lower Upper

83 100

85 69.0 45.8 85.2

131 11.0 8.0 12.0





#59

1,2,3-Trichloropropane

Concen: 3.698 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

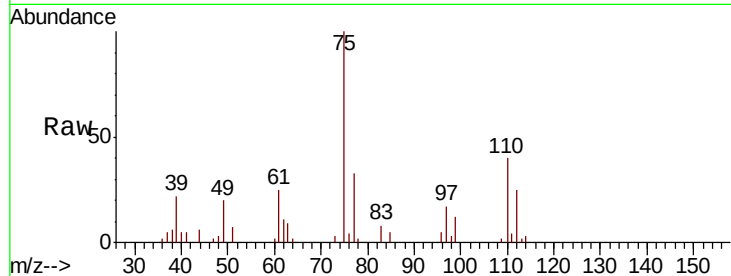
VSTD00564

Tot Ion: 75 Resp: 9554

Ion Ratio Lower Upper

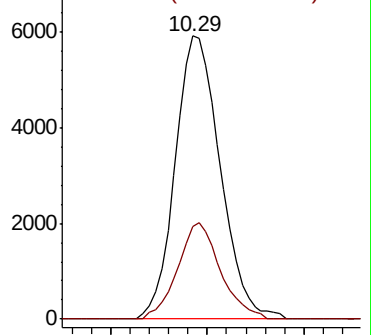
75 100

77 32.3 25.8 38.6

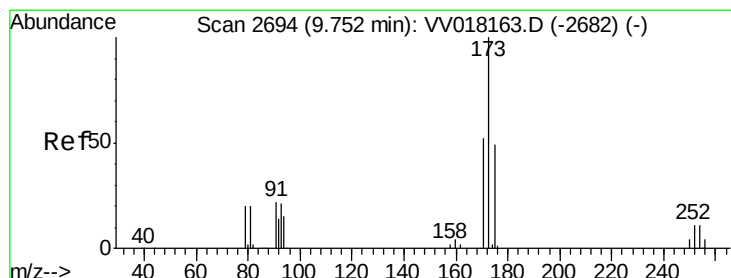
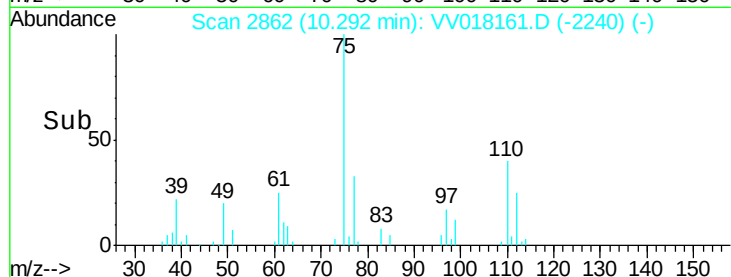


Abundance Ion 75.00 (74.70 to 75.70): VV018163.D (-2851) (-)

Ion 77.00 (76.70 to 77.70): VV018163.D (-2851) (-)



Time-->



#61

Bromoform

Concen: 4.347 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

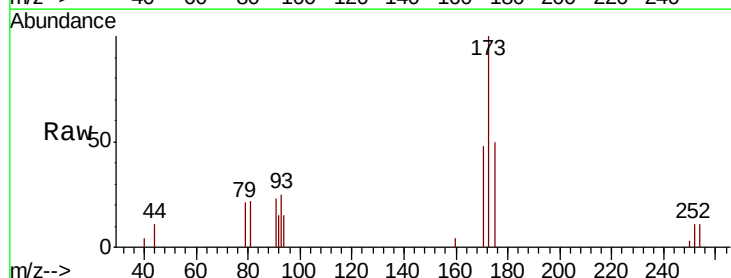
Tgt Ion: 173 Resp: 5580

Ion Ratio Lower Upper

173 100

175 47.8 39.0 58.6

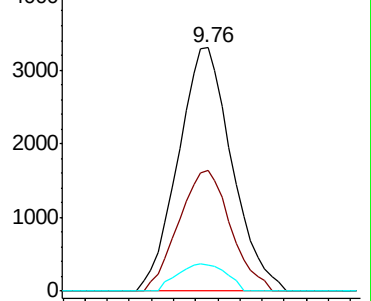
254 10.1 9.0 13.4



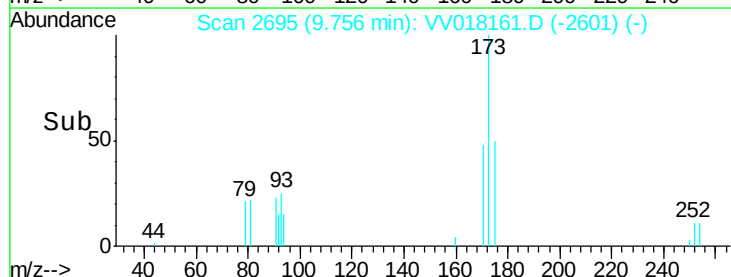
Abundance Ion 173.00 (172.70 to 173.70): VV018163.D (-2682) (-)

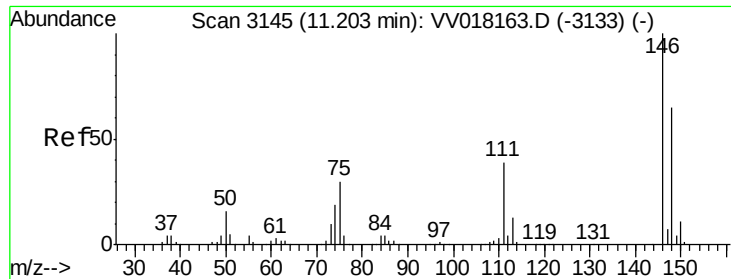
Ion 175.00 (174.70 to 175.70): VV018163.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV018163.D (-2682) (-)



Time-->





#62

1,3-Dichlorobenzene

Concen: 3.913 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

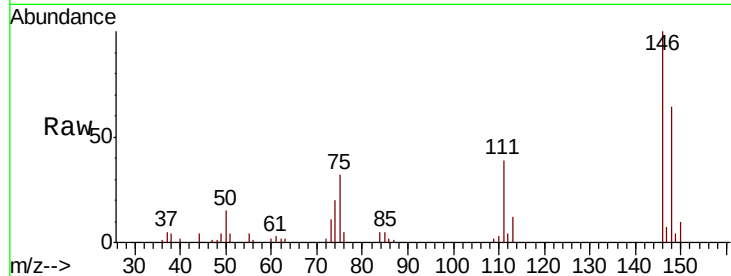
Tot Ion:146 Resp: 16302

Ion Ratio Lower Upper

146 100

111 38.8 27.6 51.2

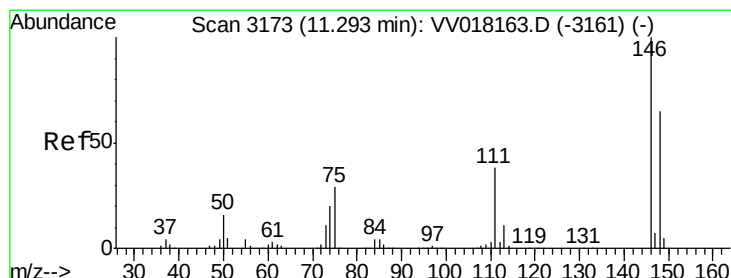
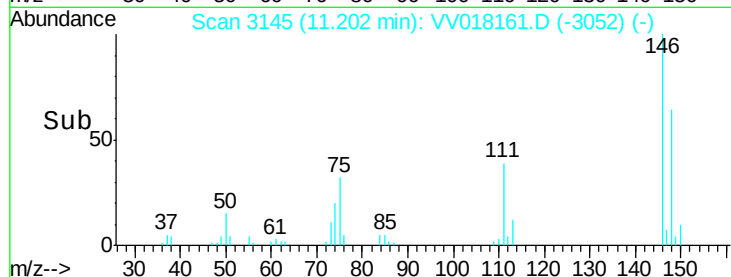
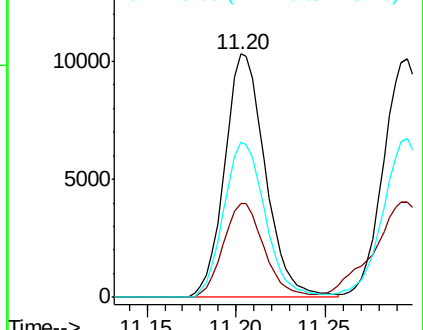
148 63.6 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.064 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

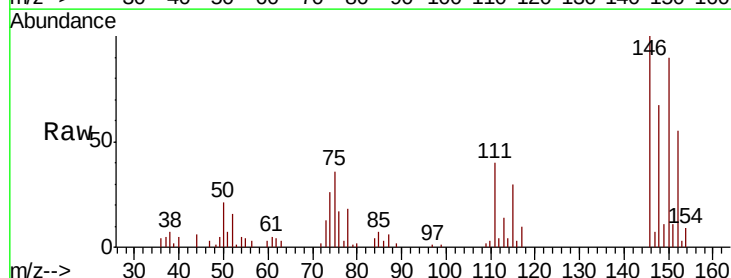
Tgt Ion:146 Resp: 17400

Ion Ratio Lower Upper

146 100

111 40.0 27.1 50.3

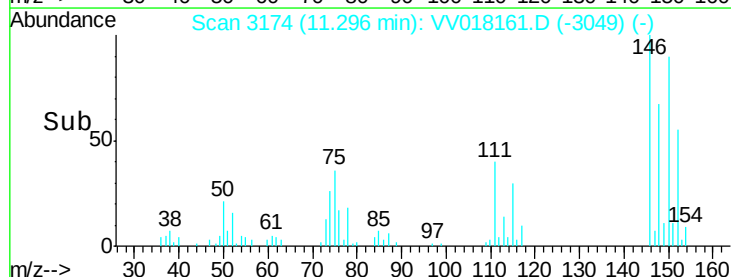
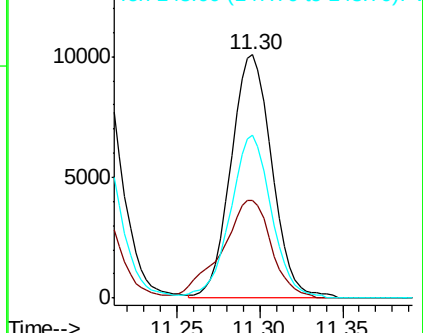
148 66.9 45.4 84.2

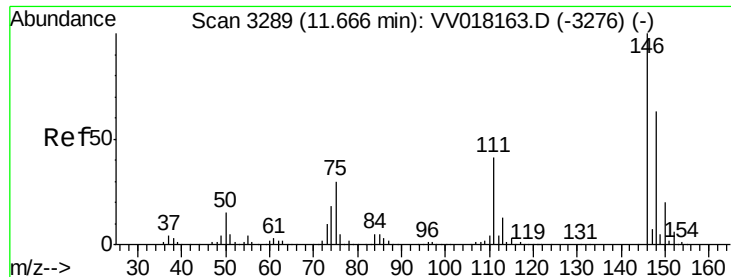


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 3.988 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

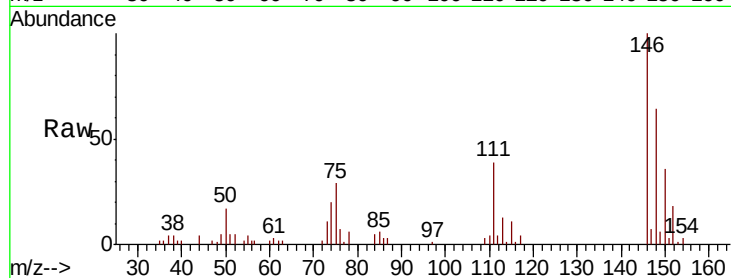
Tot Ion:146 Resp: 17004

Ion Ratio Lower Upper

146 100

111 39.3 32.8 49.2

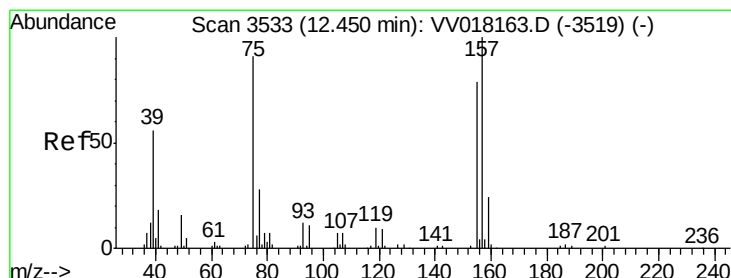
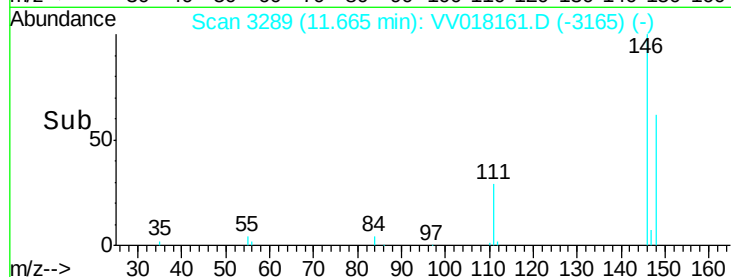
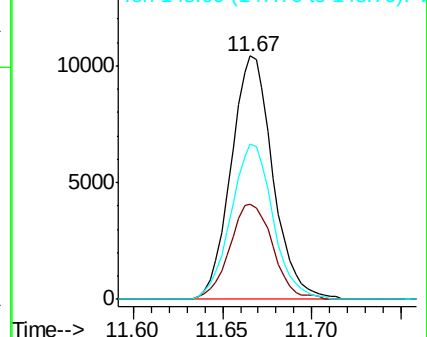
148 63.7 50.7 76.1



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: 3.304 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

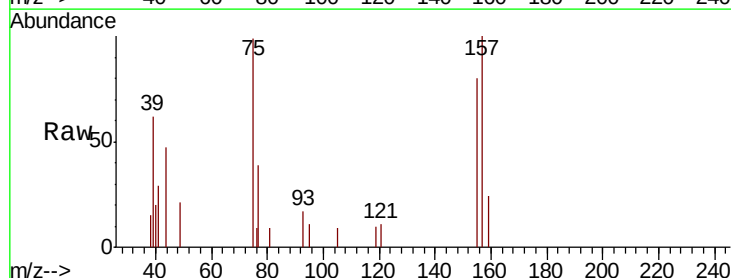
Tgt Ion: 75 Resp: 2027

Ion Ratio Lower Upper

75 100

155 80.2 69.7 104.5

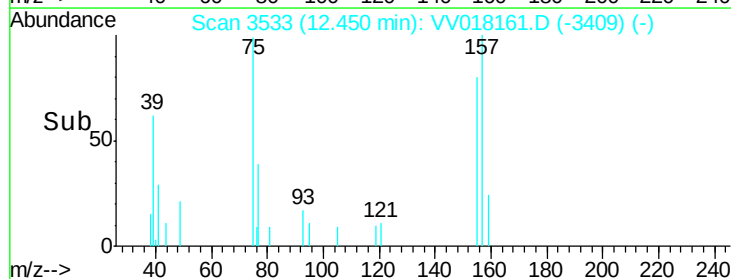
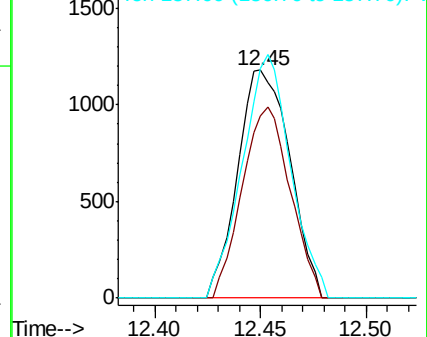
157 100.8 88.2 132.4

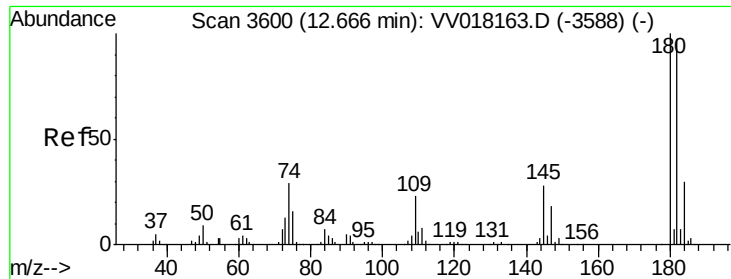


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

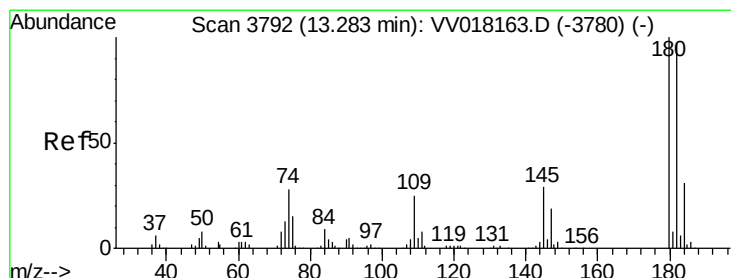
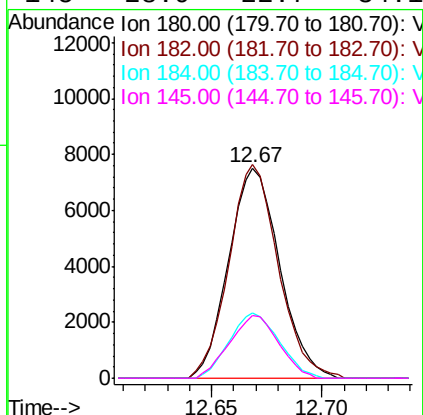
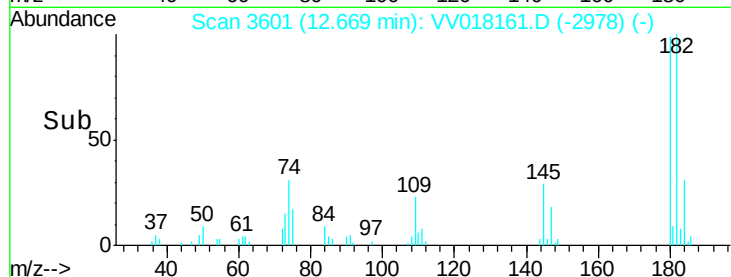
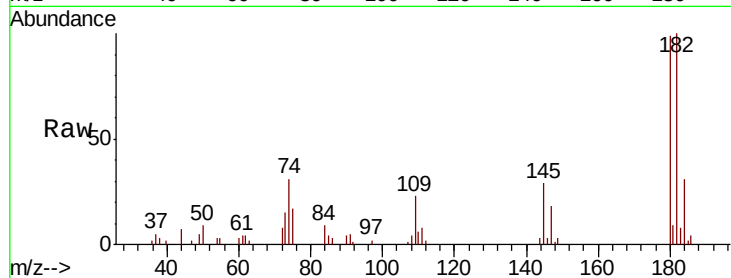




#67  
 1,3,5-Trichlorobenzene  
 Concen: 3.764 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

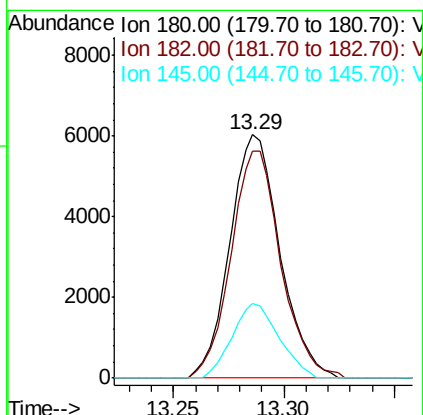
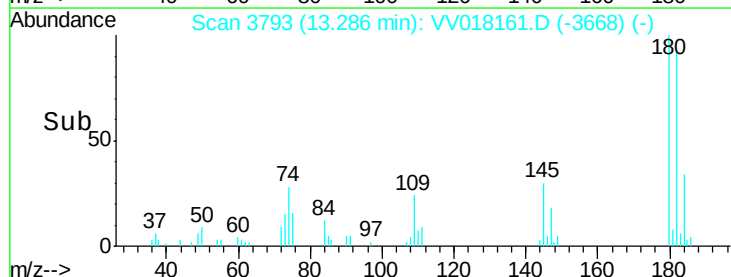
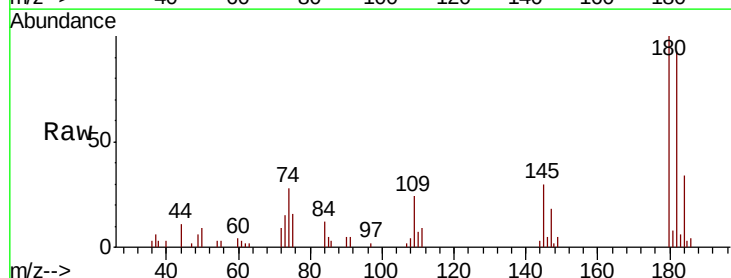
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00564

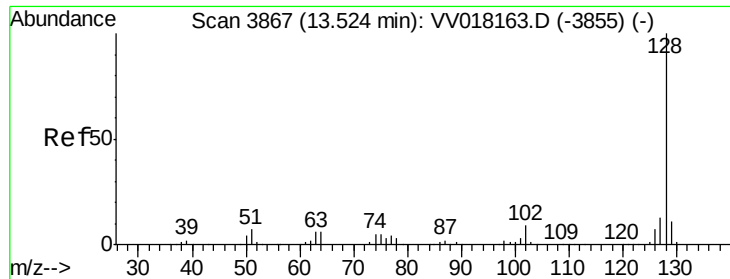
|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 12020      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 98.3  | 76.8 115.2 |
| 184         | 30.5  | 24.6 36.8  |
| 145         | 28.9  | 22.7 34.1  |



#68  
 1,2,4-trichlorobenzene  
 Concen: 3.394 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV018161.D  
 Acq: 09 Sep 2020 10:12

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 9527       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 92.8  | 77.4 116.2 |
| 145         | 28.6  | 23.2 34.8  |





#69

Naphthalene

Concen: 2.581 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00564

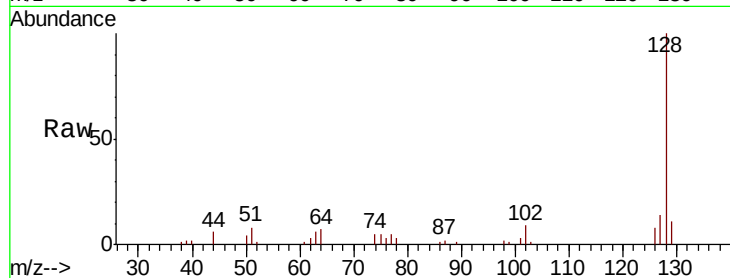
Tot Ion:128 Resp: 19509

Ion Ratio Lower Upper

128 100

127 13.5 10.6 15.8

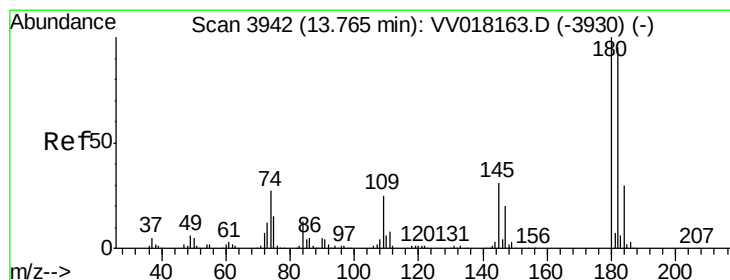
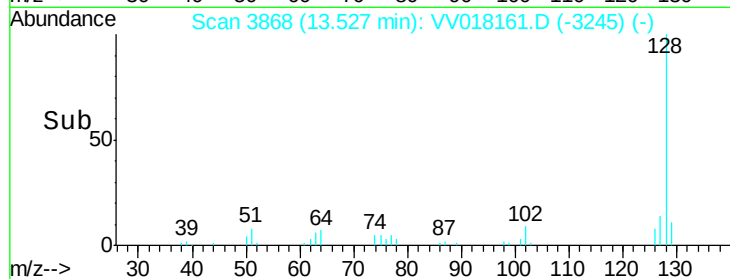
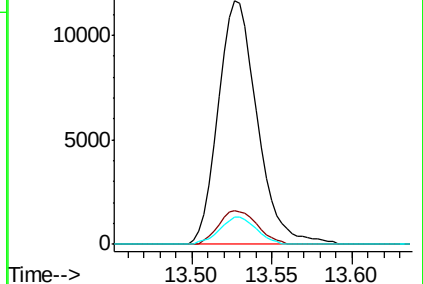
129 10.4 8.6 13.0



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: 3.314 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV018161.D

Acq: 09 Sep 2020 10:12

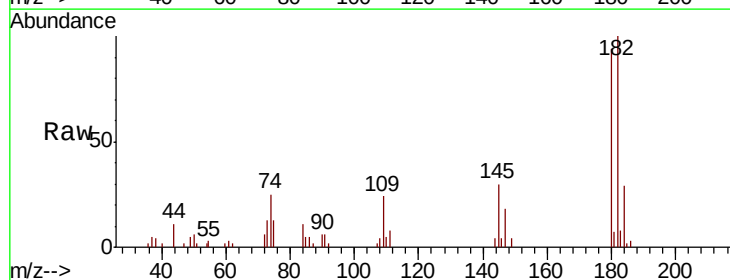
Tgt Ion:180 Resp: 9402

Ion Ratio Lower Upper

180 100

182 97.9 76.5 114.7

145 32.6 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

