

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV103118\  
 Data File : VV008493.D  
 Acq On : 31 Oct 2018 14:22  
 Operator : SY/MD  
 Sample : VSTD00551  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

Quant Time: Oct 31 23:52:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM103118WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 31 23:42:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 181194   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 162270   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 66749    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 4440  | 4.26 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.56  | 69  | 3197  | 4.39 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 6965  | 3.80 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.94  | 46  | 8060  | 7.34 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 9850  | 3.93 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 6461  | 3.86 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 19170 | 4.07 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 6613  | 4.06 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 17574 | 4.10 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 3206  | 4.05 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.14  | 63  | 5647  | 6.72 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 8338  | 3.76 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 6214  | 4.47 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 3422  | 2.617 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 3353  | 2.422 ug/L   | 91     |
| 5) Vinyl chloride              | 1.33 | 62  | 3284  | 2.557 ug/L   | 95     |
| 6) Bromomethane                | 1.52 | 94  | 992   | 2.852 ug/L   | 89     |
| 8) Chloroethane                | 1.58 | 64  | 2180  | 3.204 ug/L   | 83     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 3795  | 2.324 ug/L   | 94     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 2320  | 2.708 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 2286  | 2.832 ug/L # | 79     |
| 13) Acetone                    | 2.19 | 43  | 5724  | 6.412 ug/L   | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 10548 | 2.886 ug/L   | 100    |
| 15) Methyl Acetate             | 2.46 | 43  | 4322  | 2.593 ug/L   | 92     |
| 16) Methylene chloride         | 2.54 | 84  | 3460  | 2.466 ug/L   | 98     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 3003  | 2.438 ug/L   | 87     |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 10690 | 2.434 ug/L # | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 6124  | 2.421 ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 3669  | 2.615 ug/L   | 90     |
| 22) 2-Butanone                 | 4.02 | 43  | 6884  | 5.503 ug/L   | 92     |
| 23) Bromochloromethane         | 4.30 | 128 | 1497  | 2.269 ug/L   | 97     |
| 25) Chloroform                 | 4.43 | 83  | 5850  | 2.365 ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 4927  | 2.397 ug/L # | 94     |
| 29) Cyclohexane                | 4.72 | 56  | 5995  | 2.554 ug/L   | 99     |
| 30) 1,1,1-Trichloroethane      | 4.65 | 97  | 4810  | 2.306 ug/L   | 95     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 4192  | 2.366 ug/L   | 92     |
| 33) Benzene                    | 5.15 | 78  | 12901 | 2.451 ug/L   | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 3380  | 2.507 ug/L   | 91     |
| 35) Methylcyclohexane          | 6.17 | 83  | 5744  | 2.502 ug/L   | 97     |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 3442  | 2.363 ug/L # | 88     |
| 38) Bromodichloromethane       | 6.56 | 83  | 4356  | 2.353 ug/L   | 97     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 5311  | 2.324 ug/L   | 98     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 10038 | 4.653 ug/L   | 100    |

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 Acq On : 31 Oct 2018 14:22  
 Operator : SY/MD  
 Sample : VSTD00551  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

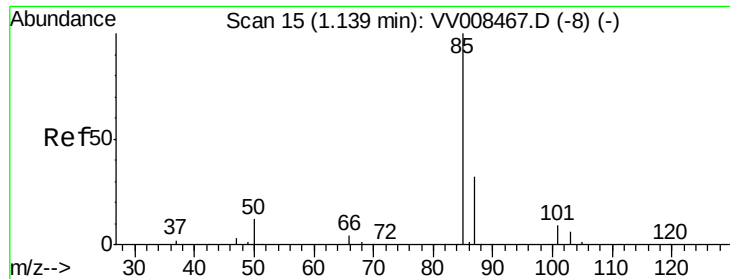
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

Quant Time: Oct 31 23:52:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM103118WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 31 23:42:58 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                    | 7.43  | 91   | 13112    | 2.405 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 5088     | 2.377 | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 3121     | 2.434 | ug/L   | 97       |
| 46) Tetrachloroethene          | 8.02  | 164  | 2324     | 2.626 | ug/L   | 94       |
| 48) 2-Hexanone                 | 8.19  | 43   | 8682     | 5.138 | ug/L   | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 3164     | 2.294 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 3296     | 2.451 | ug/L # | 99       |
| 51) Chlorobenzene              | 8.93  | 112  | 8294     | 2.461 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.06  | 91   | 14557    | 2.378 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.18  | 106  | 5468     | 2.433 | ug/L   | 97       |
| 54) o-xylene                   | 9.59  | 106  | 4931     | 2.199 | ug/L   | 97       |
| 55) Styrene                    | 9.61  | 104  | 8669     | 2.296 | ug/L   | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 13133    | 2.238 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 5181     | 2.295 | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 3985     | 2.176 | ug/L   | 92       |
| 61) Bromoform                  | 9.78  | 173  | 1996     | 2.394 | ug/L # | 90       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 5981     | 2.720 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 6162     | 2.801 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 5933     | 2.650 | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 1075     | 2.355 | ug/L # | 73       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 3425     | 2.380 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 2366     | 2.048 | ug/L   | 98       |
| 69) Naphthalene                | 13.56 | 128  | 6731     | 1.816 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 2149     | 1.857 | ug/L   | 100      |

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





#2

Dichlorodifluoromethane

Concen: 2.617 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

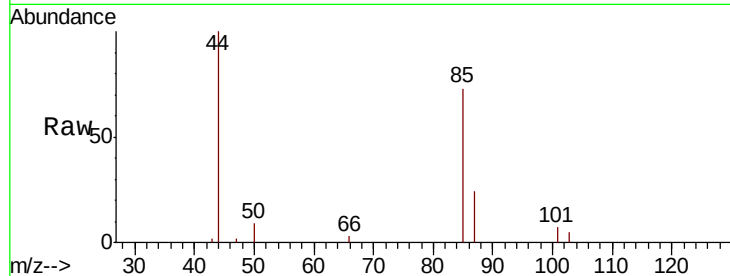
VSTD00551

Tgt Ion: 85 Resp: 3422

Ion Ratio Lower Upper

85 100

87 33.4 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VV008467.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008467.D (-8) (-)

1.14

4000

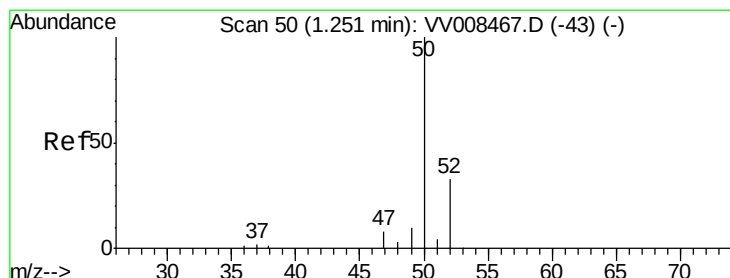
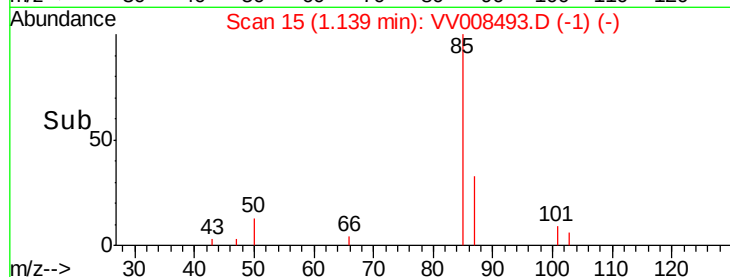
3000

2000

1000

0

Time--> 1.10 1.12 1.14 1.16 1.18



#3

Chloromethane

Concen: 2.422 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV008493.D

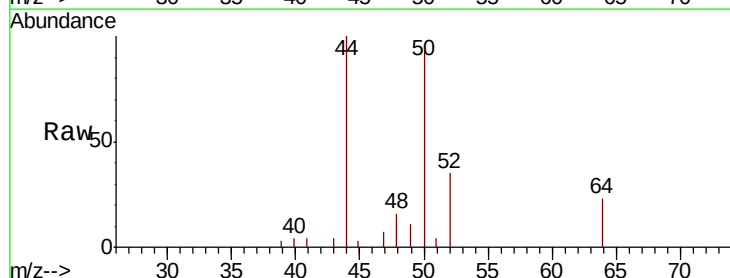
Acq: 31 Oct 2018 14:22

Tgt Ion: 50 Resp: 3353

Ion Ratio Lower Upper

50 100

52 38.1 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VV008467.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV008467.D (-43) (-)

1.25

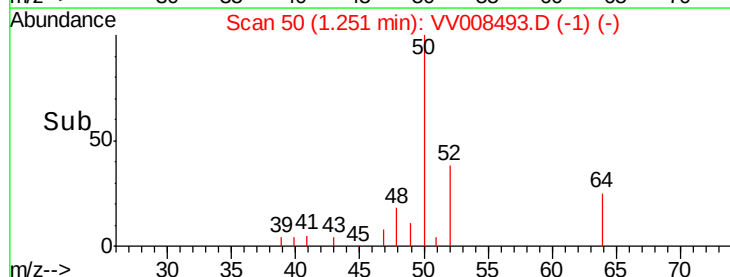
3000

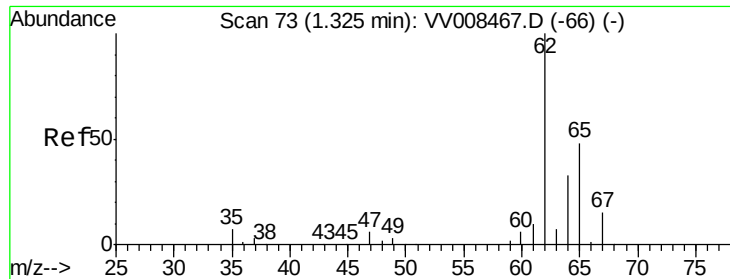
2000

1000

0

Time--> 1.22 1.24 1.26 1.28





#5

Vinyl chloride

Concen: 2.557 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

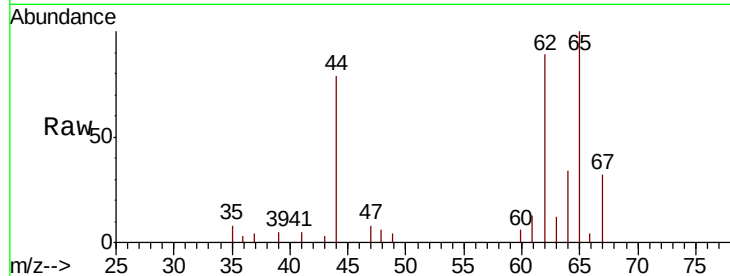
VSTD00551

Tgt Ion: 62 Resp: 3284

Ion Ratio Lower Upper

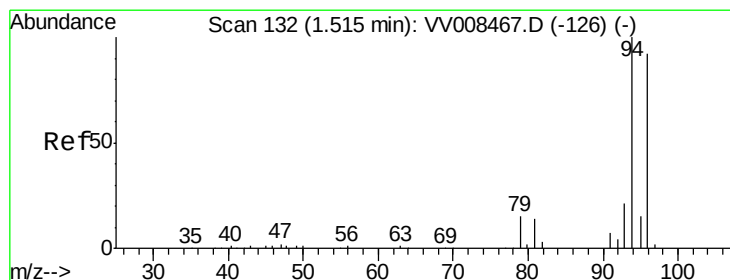
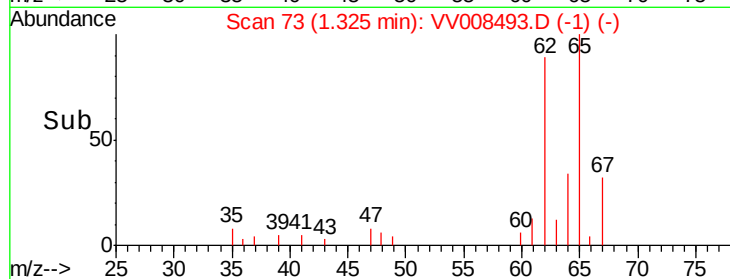
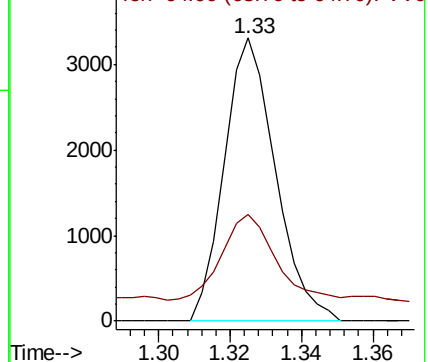
62 100

64 37.8 24.2 45.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.852 ug/L

RT: 1.52 min Scan# 133

Delta R.T. 0.00 min

Lab File: VV008493.D

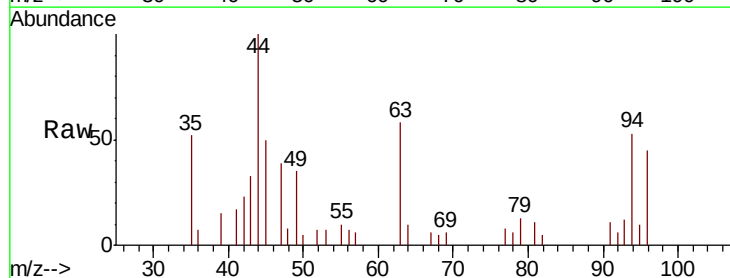
Acq: 31 Oct 2018 14:22

Tgt Ion: 94 Resp: 992

Ion Ratio Lower Upper

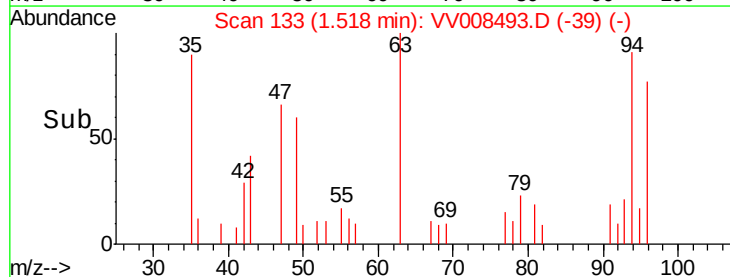
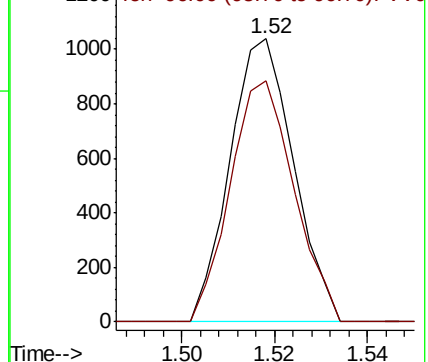
94 100

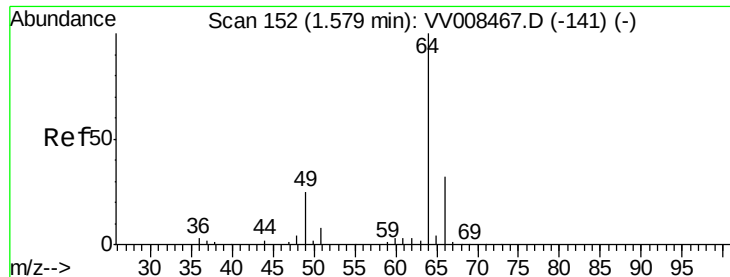
96 85.2 67.2 124.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 3.204 ug/L

RT: 1.58 min Scan# 152

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

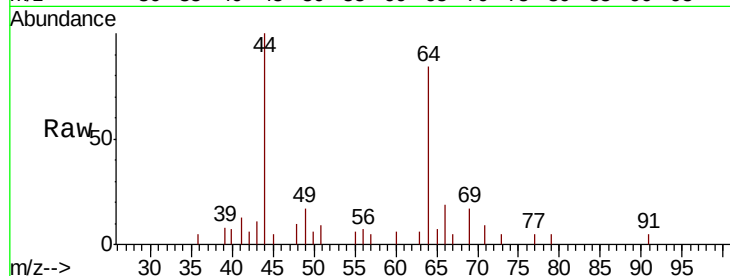
VSTD00551

Tgt Ion: 64 Resp: 2180

Ion Ratio Lower Upper

64 100

66 22.7 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV008467.D (-141) (-)

Ion 66.00 (65.70 to 66.70): VV008467.D (-141) (-)

1.58

1500

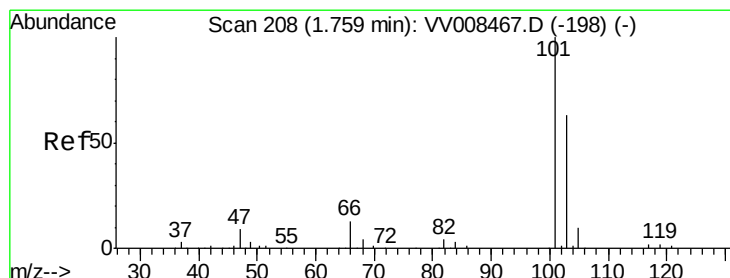
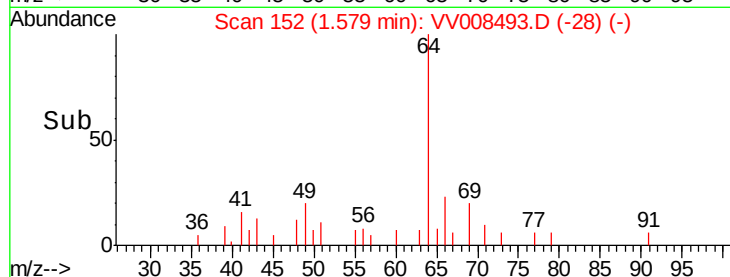
1000

500

0

1.54 1.56 1.58 1.60 1.62

Time-->



#9

Trichlorofluoromethane

Concen: 2.324 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV008493.D

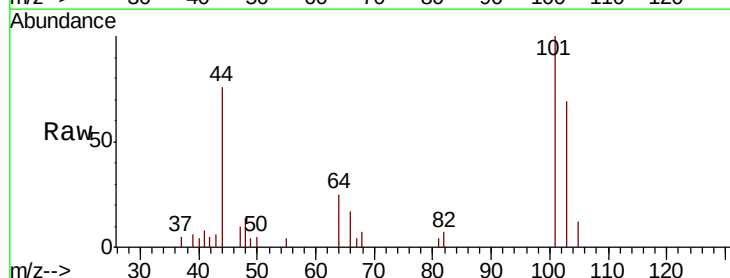
Acq: 31 Oct 2018 14:22

Tgt Ion: 101 Resp: 3795

Ion Ratio Lower Upper

101 100

103 69.5 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VV008467.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV008467.D (-198) (-)

1.76

3000

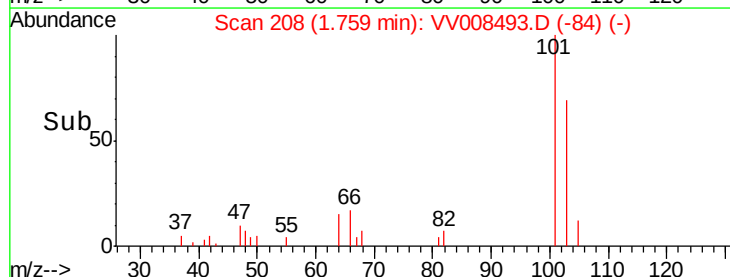
2000

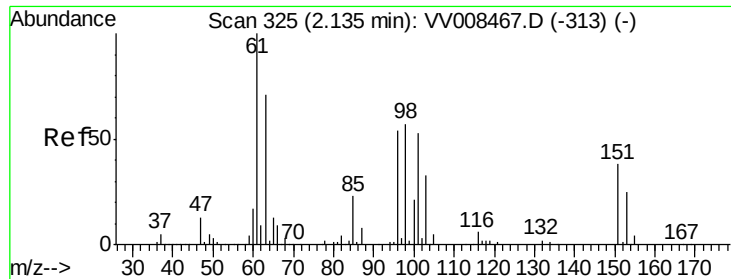
1000

0

1.72 1.74 1.76 1.78

Time-->





#10

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

Concen: 2.708 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00551

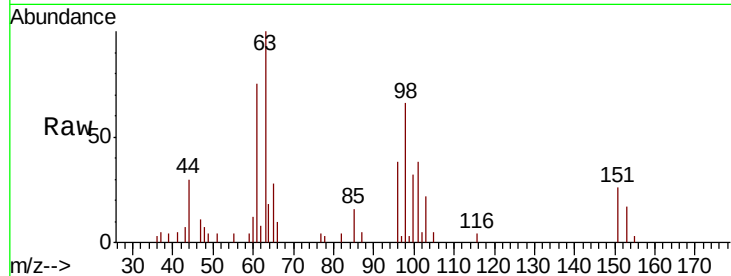
Tgt Ion:101 Resp: 2320

Ion Ratio Lower Upper

101 100

85 43.3 35.6 53.4

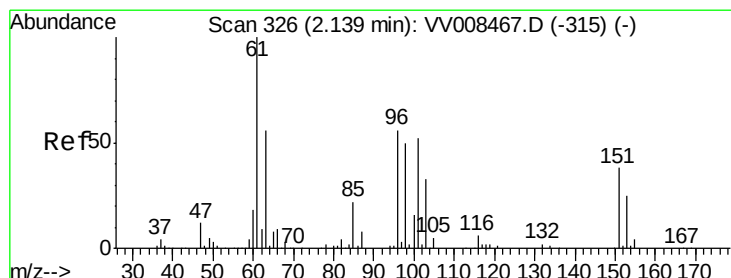
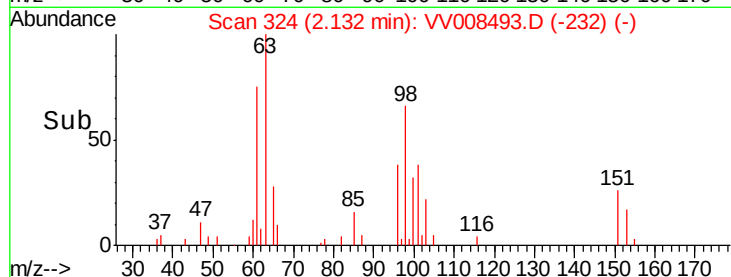
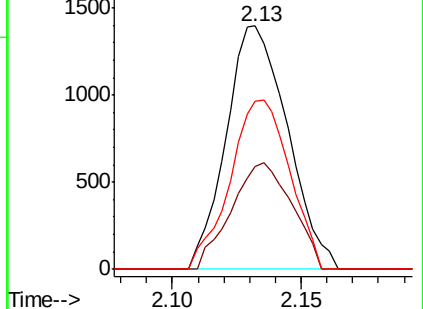
151 67.4 57.8 86.8



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: 2.832 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

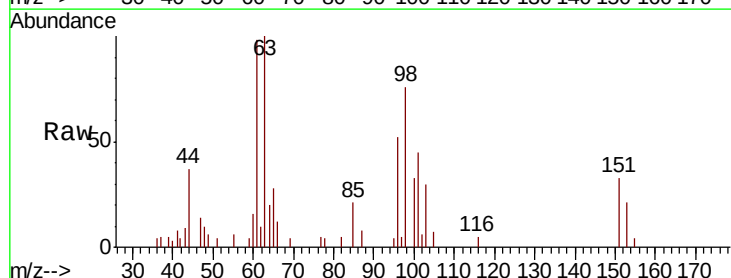
Tgt Ion: 96 Resp: 2286

Ion Ratio Lower Upper

96 100

61 187.1 129.8 241.2

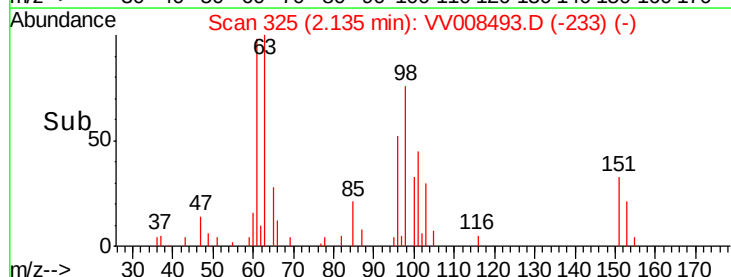
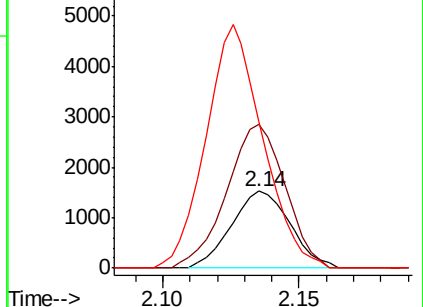
63 190.7 93.0 172.6#

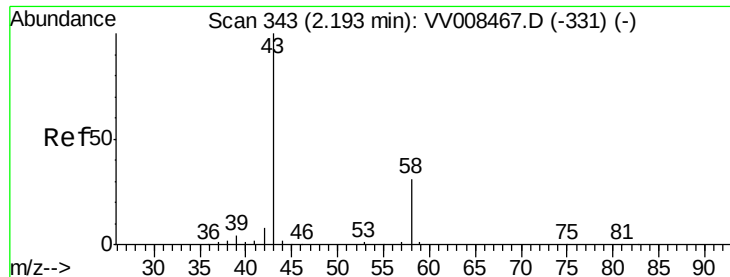


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.412 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

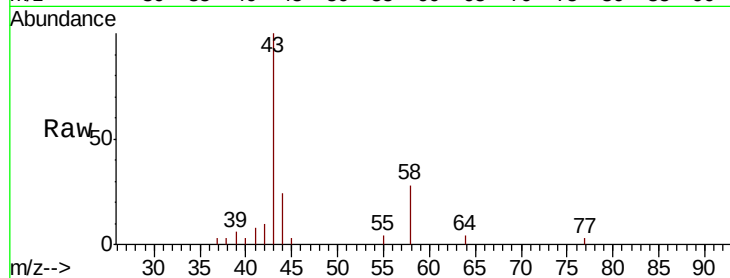
VSTD00551

Tgt Ion: 43 Resp: 5724

Ion Ratio Lower Upper

43 100

58 31.0 0.0 61.4



Abundance Ion 43.00 (42.70 to 43.70): VV008467.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV008467.D (-331) (-)

2.19

4000

3000

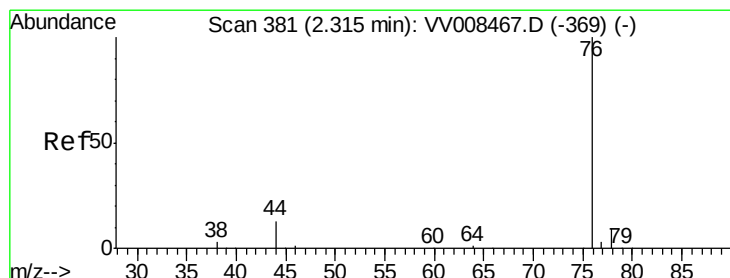
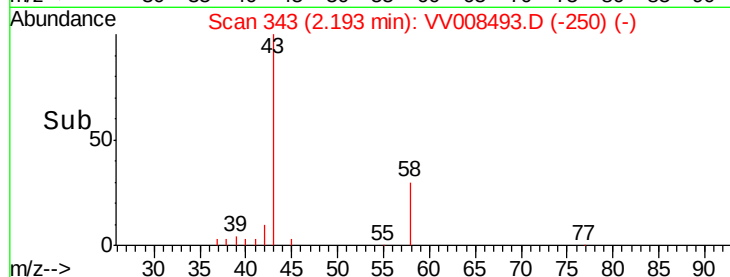
2000

1000

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 2.886 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV008493.D

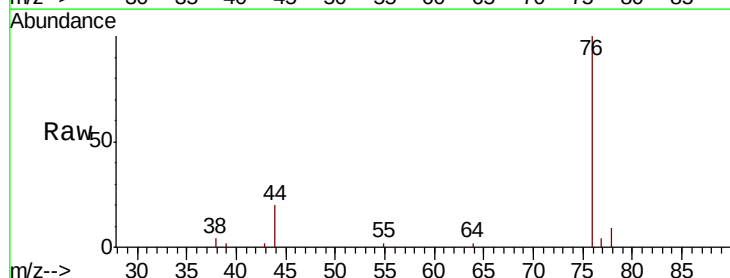
Acq: 31 Oct 2018 14:22

Tgt Ion: 76 Resp: 10548

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV008467.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV008467.D (-369) (-)

2.32

8000

6000

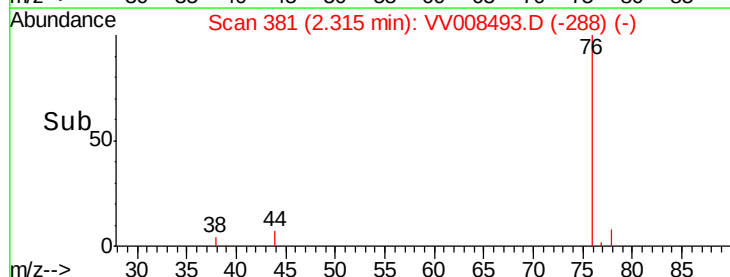
4000

2000

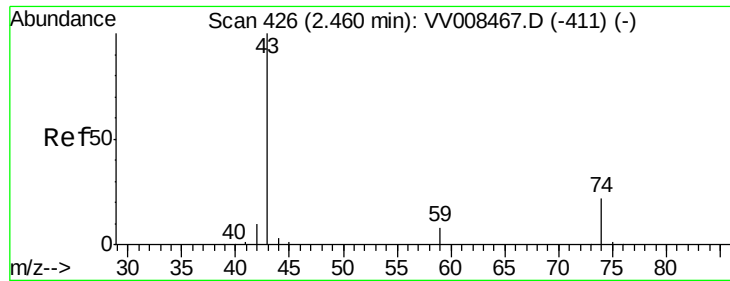
0

Time-->

2.30 2.35



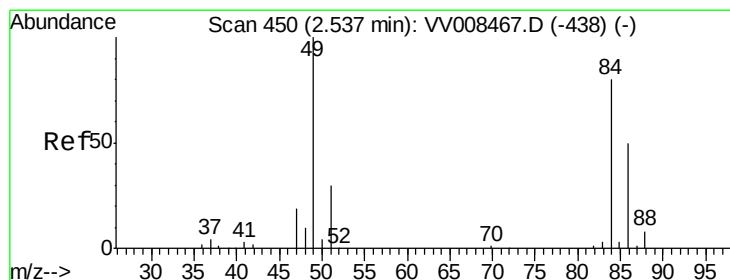
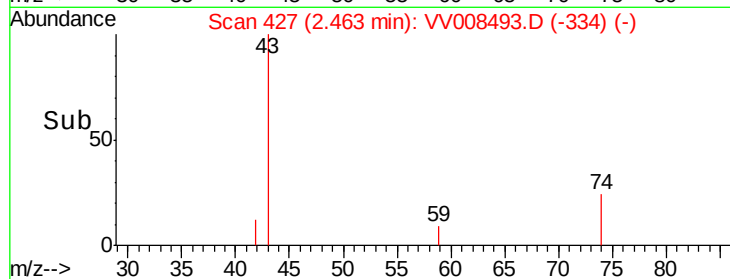
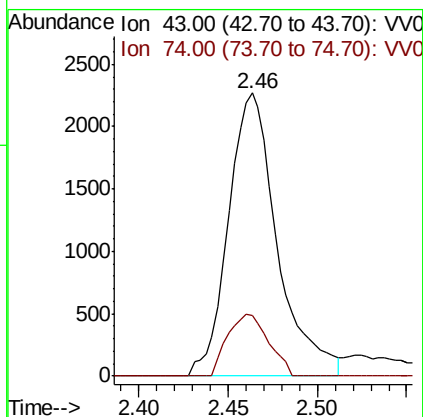
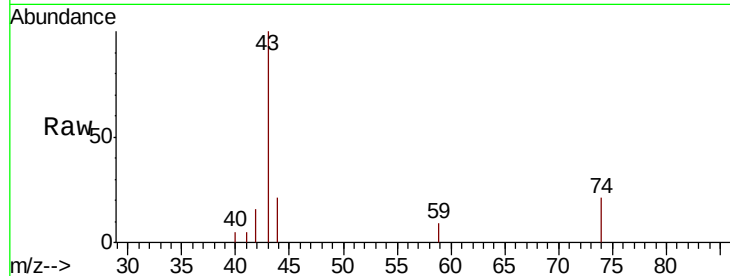




#15  
Methyl Acetate  
Concen: 2.593 ug/L  
RT: 2.46 min Scan# 427  
Delta R.T. 0.00 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

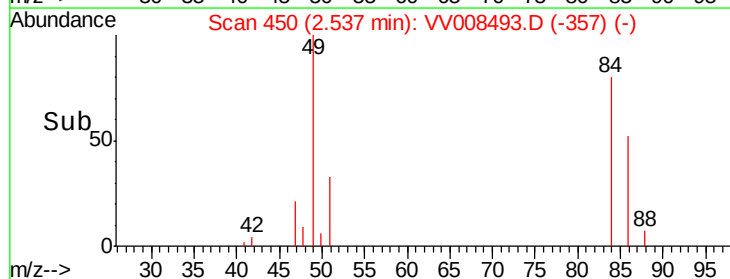
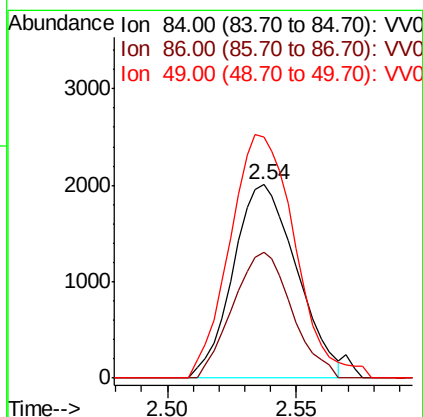
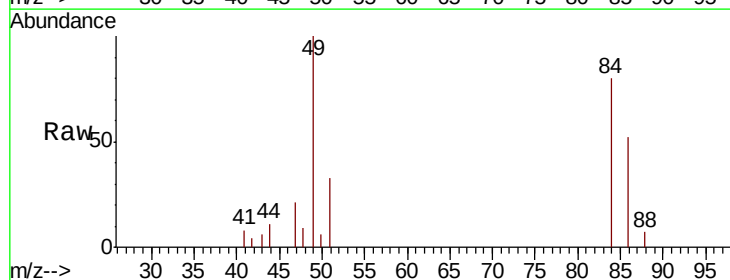
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD00551

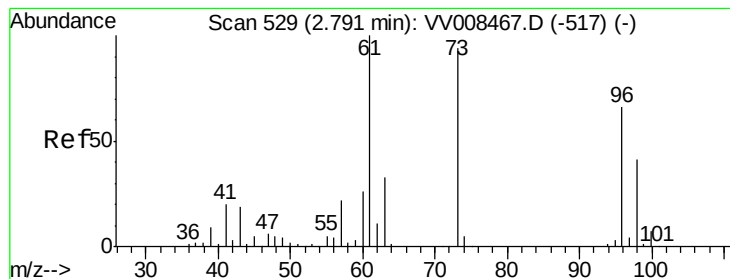
Tgt Ion: 43 Resp: 4322  
Ion Ratio Lower Upper  
43 100  
74 18.4 17.8 26.6



#16  
Methylene chloride  
Concen: 2.466 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

Tgt Ion: 84 Resp: 3460  
Ion Ratio Lower Upper  
84 100  
86 65.1 42.8 79.4  
49 124.4 87.5 162.5





#17

trans-1,2-Dichloroethene

Concen: 2.438 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00551

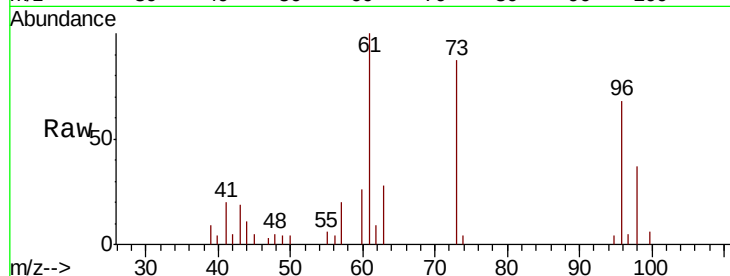
Tgt Ion: 96 Resp: 3003

Ion Ratio Lower Upper

96 100

61 137.2 105.5 195.9

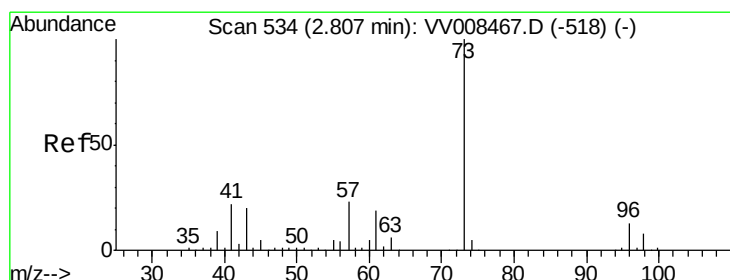
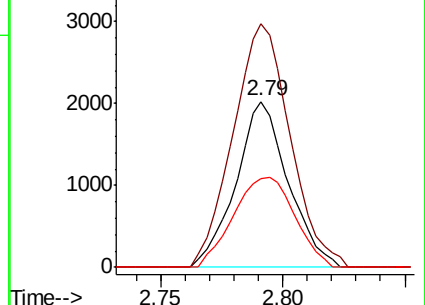
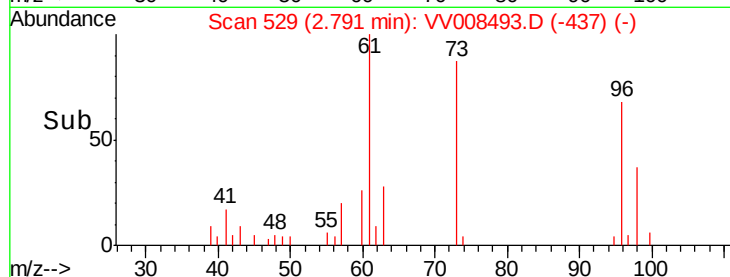
98 50.2 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VV008493.D (-437) (-)

Ion 61.00 (60.70 to 61.70): VV008493.D (-437) (-)

Ion 98.00 (97.70 to 98.70): VV008493.D (-437) (-)



#18

Methyl tert-butyl Ether

Concen: 2.434 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

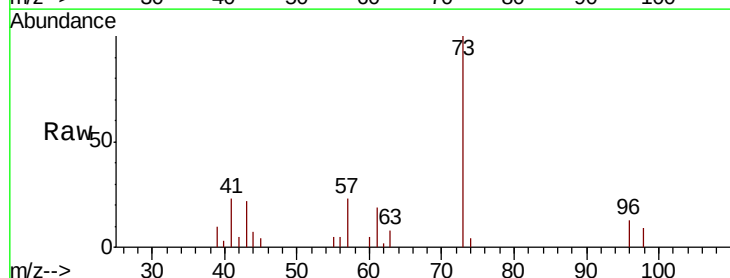
Tgt Ion: 73 Resp: 10690

Ion Ratio Lower Upper

73 100

43 23.9 15.6 23.4#

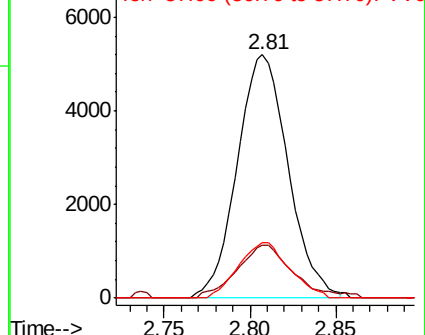
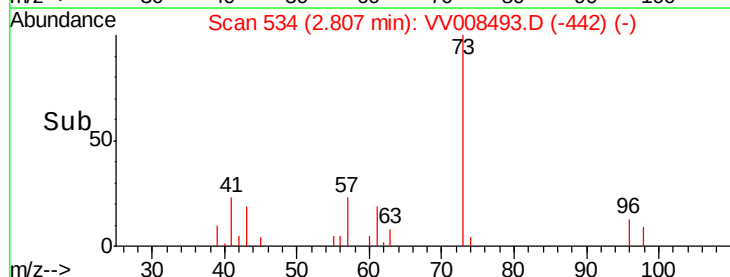
57 22.9 18.0 27.0

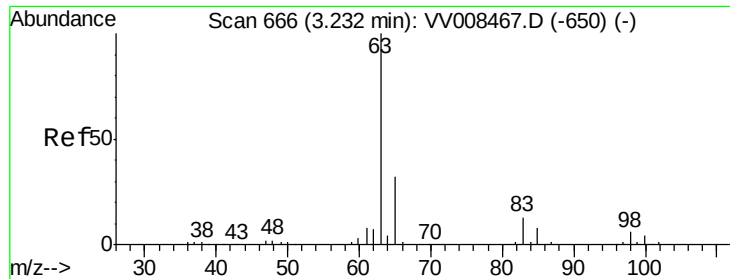


Abundance Ion 73.00 (72.70 to 73.70): VV008493.D (-442) (-)

Ion 43.00 (42.70 to 43.70): VV008493.D (-442) (-)

Ion 57.00 (56.70 to 57.70): VV008493.D (-442) (-)

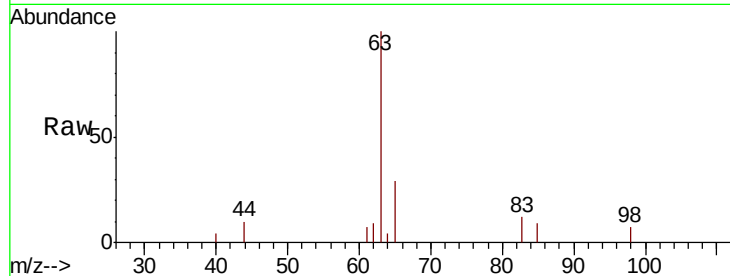




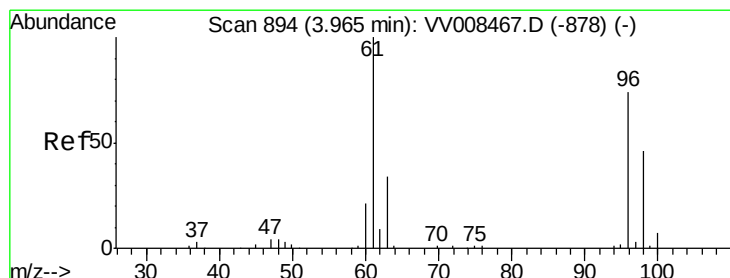
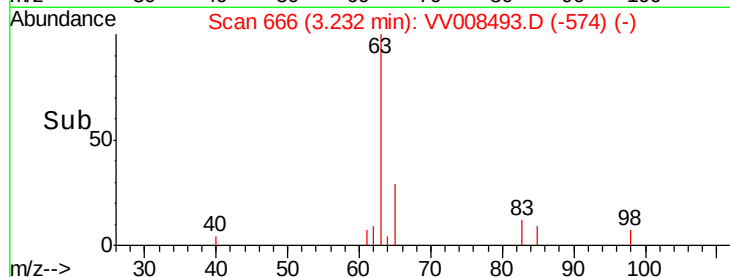
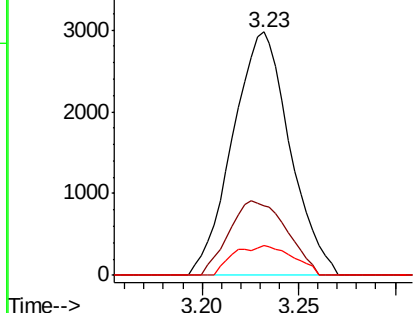
#19  
 1,1-Dichloroethane  
 Concen: 2.421 ug/L  
 RT: 3.23 min Scan# 666  
 Delta R.T. -0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

Tgt Ion: 63 Resp: 6124  
 Ion Ratio Lower Upper  
 63 100  
 65 28.7 22.3 41.5  
 83 12.5 9.0 16.6

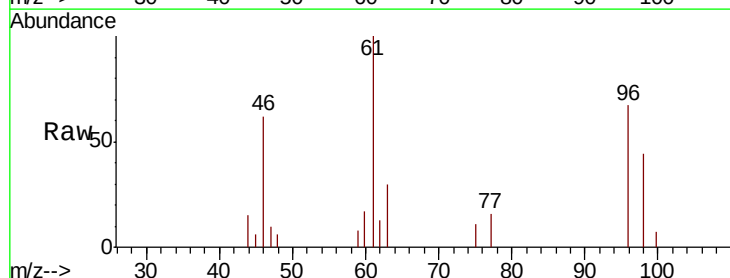


Abundance Ion 63.00 (62.70 to 63.70): VV0  
 Ion 65.00 (64.70 to 65.70): VV0  
 Ion 83.00 (82.70 to 83.70): VV0

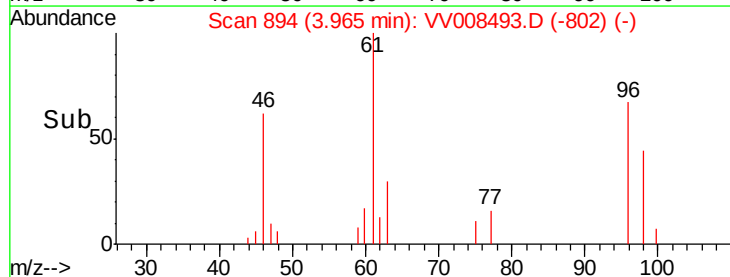
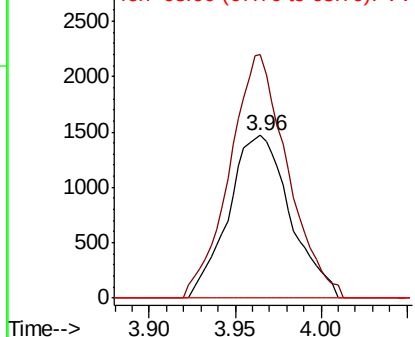


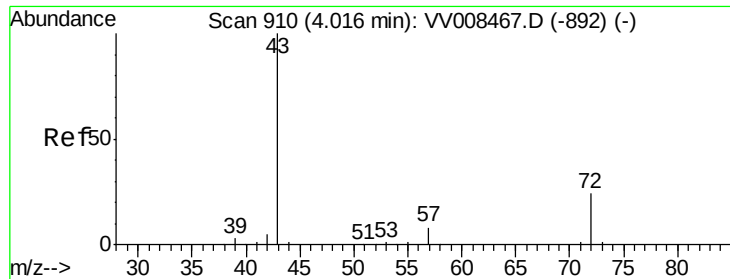
#20  
 cis-1,2-Dichloroethene  
 Concen: 2.615 ug/L  
 RT: 3.96 min Scan# 894  
 Delta R.T. -0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Tgt Ion: 96 Resp: 3669  
 Ion Ratio Lower Upper  
 96 100  
 61 149.7 96.3 178.9  
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 5.503 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampled :

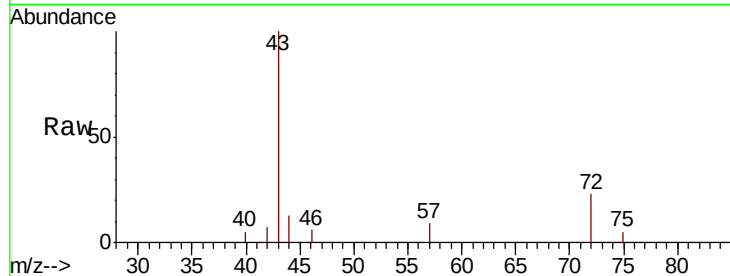
VSTD00551

Tgt Ion: 43 Resp: 6884

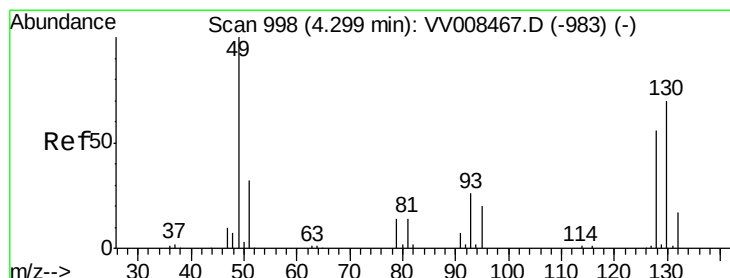
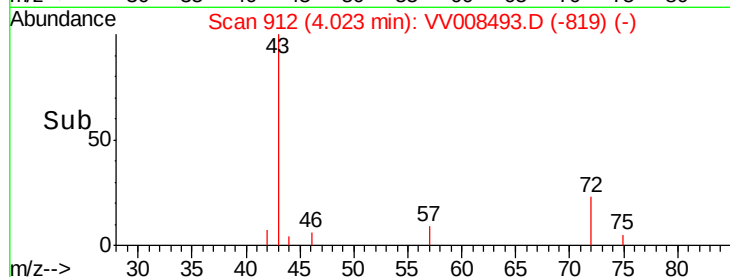
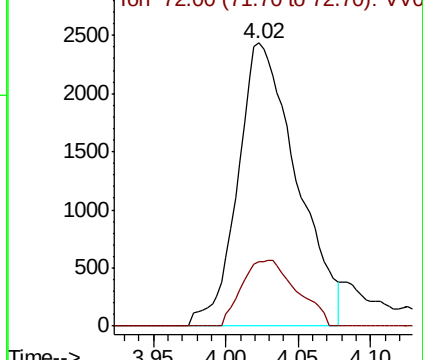
Ion Ratio Lower Upper

43 100

72 21.7 13.0 38.9



Abundance Ion 43.00 (42.70 to 43.70): VV008467.D (-892) (-)



#23

Bromochloromethane

Concen: 2.269 ug/L

RT: 4.30 min Scan# 998

Delta R.T. -0.01 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Tgt Ion: 128 Resp: 1497

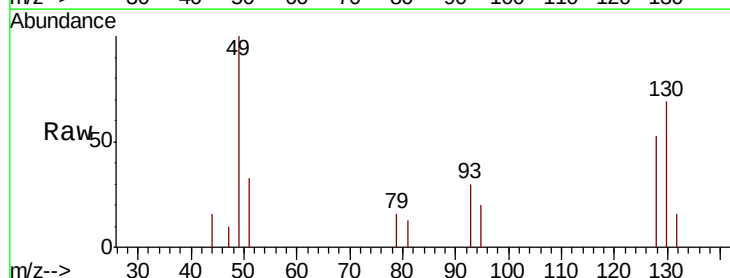
Ion Ratio Lower Upper

128 100

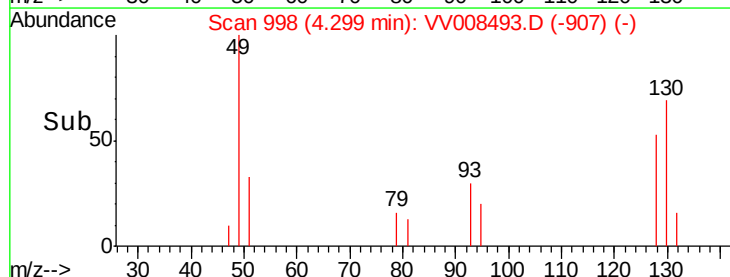
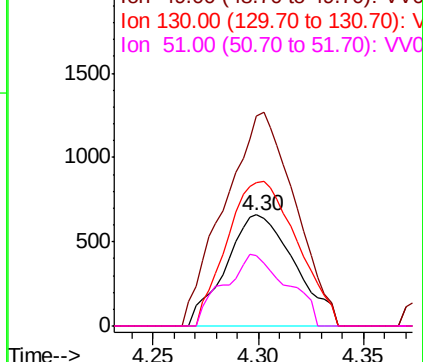
49 188.4 129.4 240.4

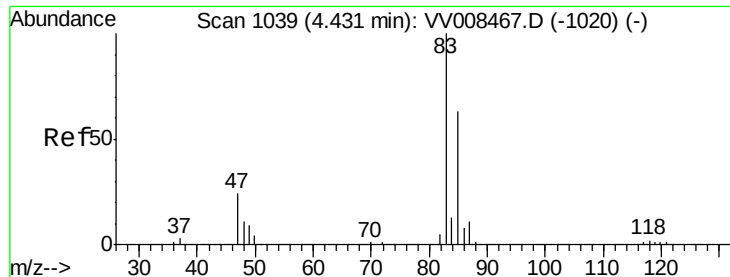
130 129.2 92.1 171.1

51 63.1 47.4 71.2



Abundance Ion 128.00 (127.70 to 128.70): VV008467.D (-983) (-)

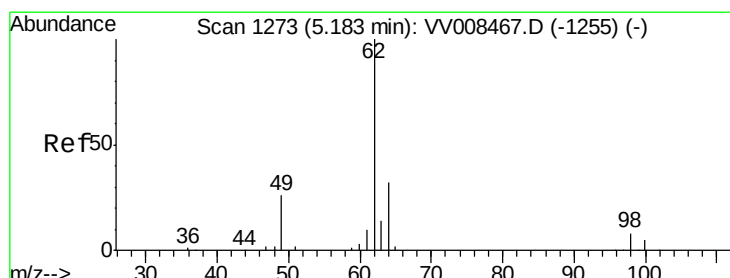
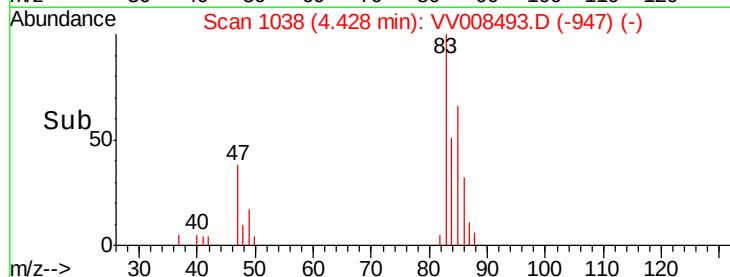
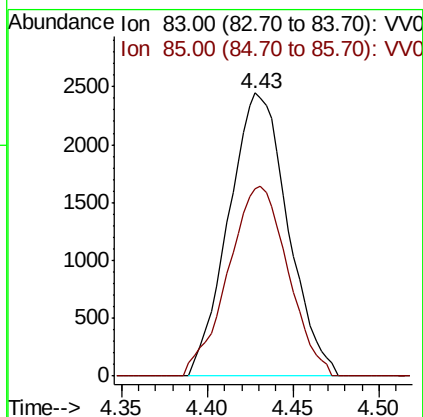
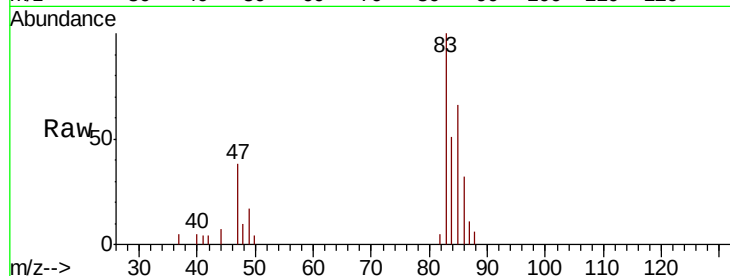




#25  
Chloroform  
Concen: 2.365 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. -0.01 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

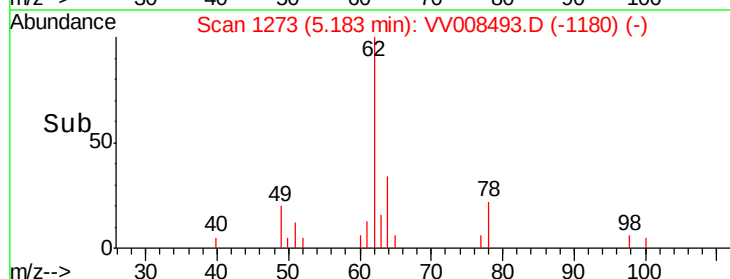
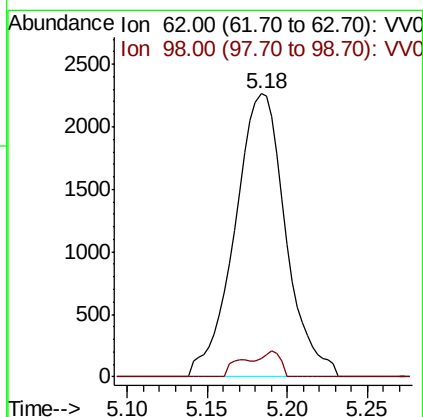
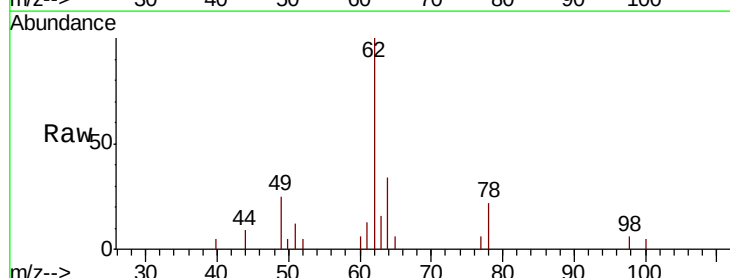
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00551

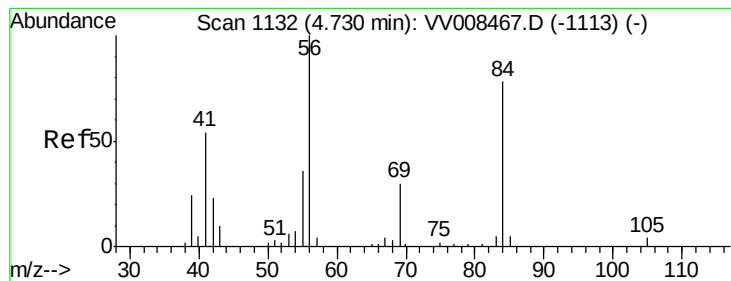
Tgt Ion: 83 Resp: 5850  
Ion Ratio Lower Upper  
83 100  
85 66.3 45.9 85.3



#27  
1,2-Dichloroethane  
Concen: 2.397 ug/L  
RT: 5.18 min Scan# 1273  
Delta R.T. 0.00 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

Tgt Ion: 62 Resp: 4927  
Ion Ratio Lower Upper  
62 100  
98 6.4 6.8 10.2#





#29

Cyclohexane

Concen: 2.554 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00551

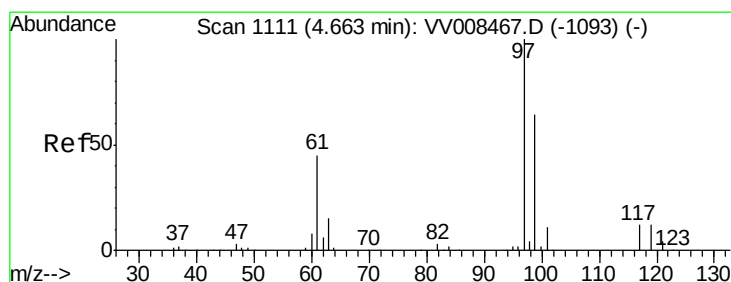
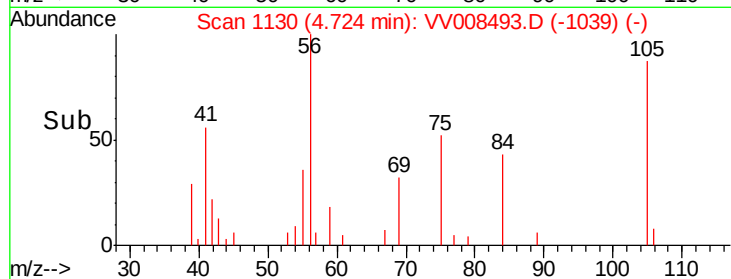
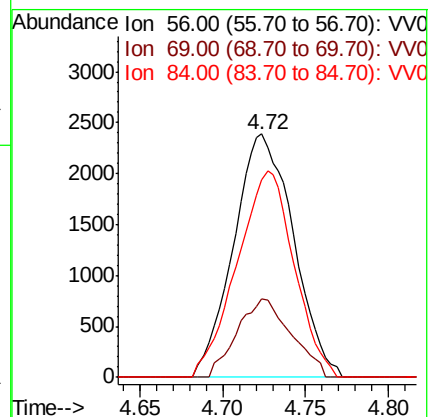
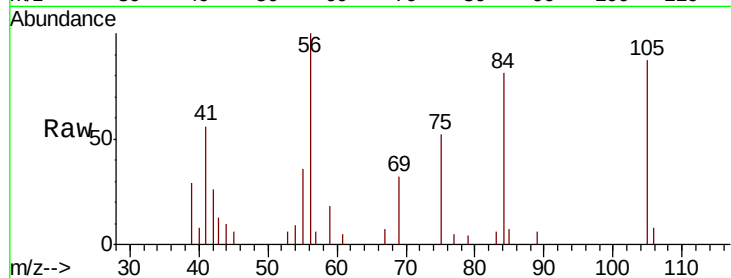
Tgt Ion: 56 Resp: 5995

Ion Ratio Lower Upper

56 100

69 29.1 24.2 36.2

84 80.9 65.6 98.4



#30

1,1,1-Trichloroethane

Concen: 2.306 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

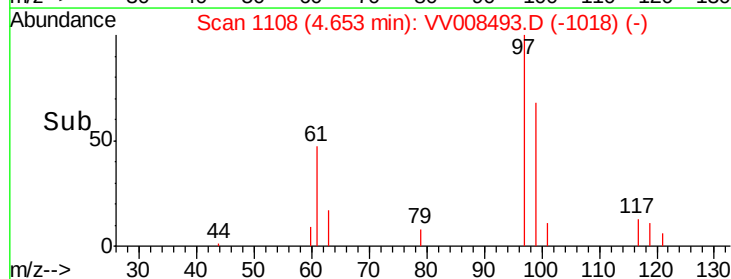
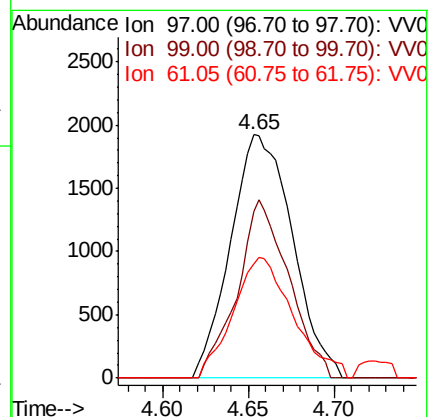
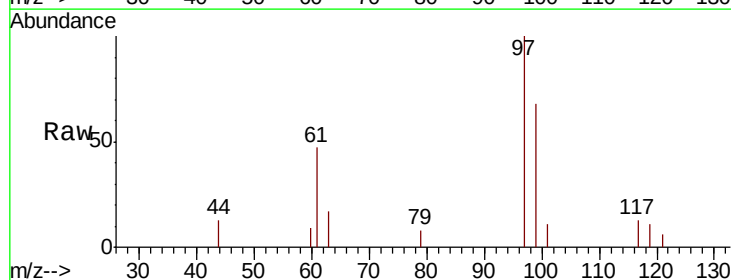
Tgt Ion: 97 Resp: 4810

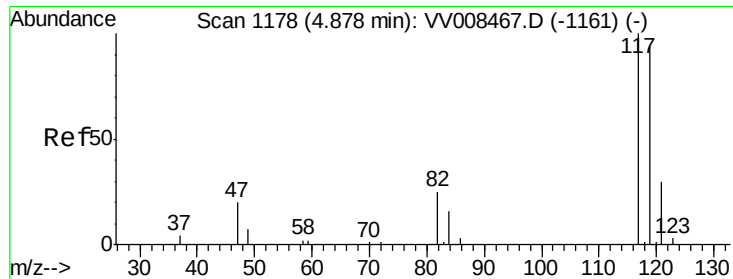
Ion Ratio Lower Upper

97 100

99 60.7 51.8 77.6

61 48.1 36.2 54.2





#31

Carbon tetrachloride

Concen: 2.366 ug/L

RT: 4.88 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

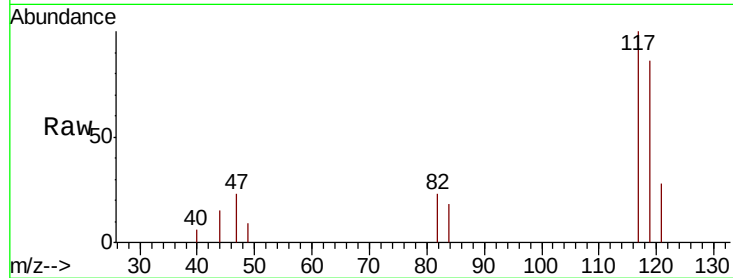
VSTD00551

Tgt Ion:117 Resp: 4192

Ion Ratio Lower Upper

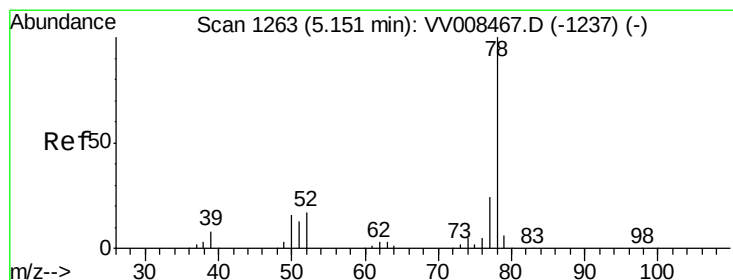
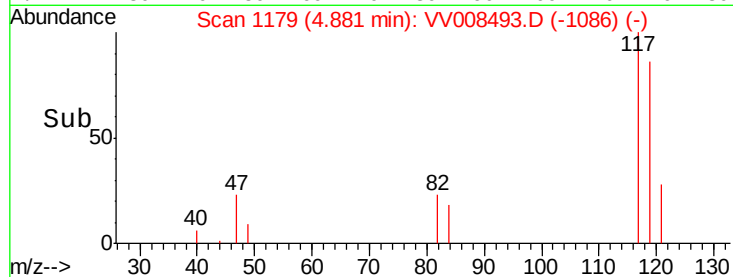
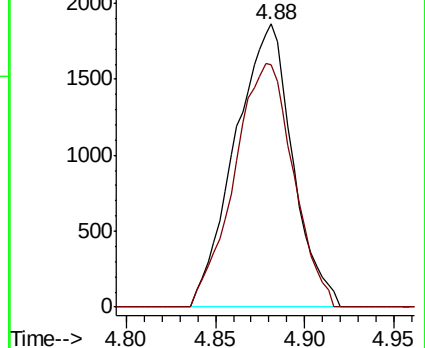
117 100

119 88.3 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.451 ug/L

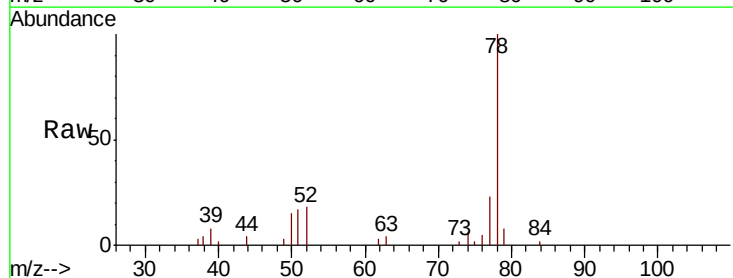
RT: 5.15 min Scan# 1262

Delta R.T. -0.01 min

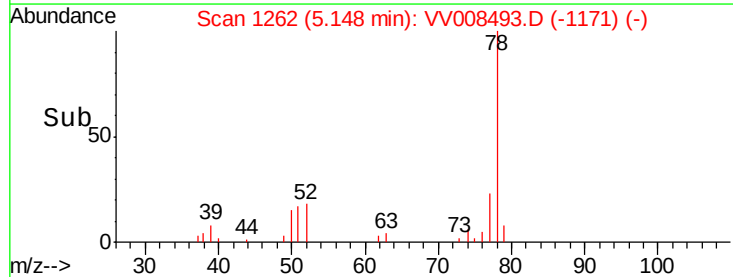
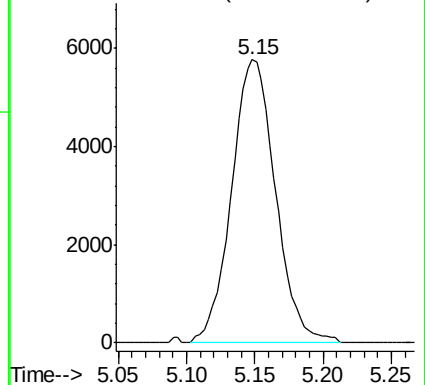
Lab File: VV008493.D

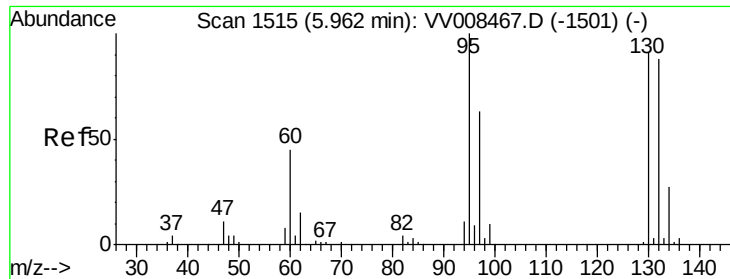
Acq: 31 Oct 2018 14:22

Tgt Ion: 78 Resp: 12901



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.507 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00551

Tgt Ion: 95 Resp: 3380

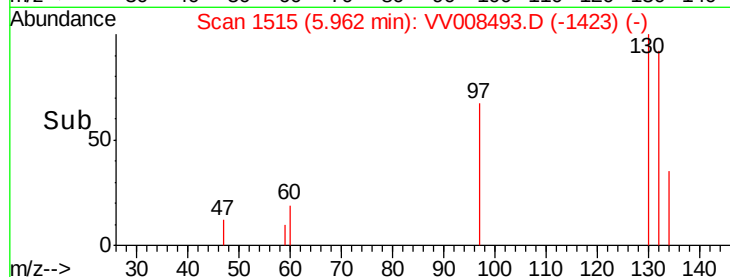
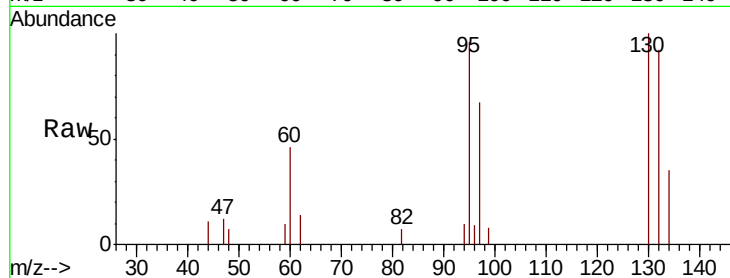
Ion Ratio Lower Upper

95 100

97 69.8 45.3 84.1

132 96.1 62.8 116.6

130 104.6 64.3 119.5

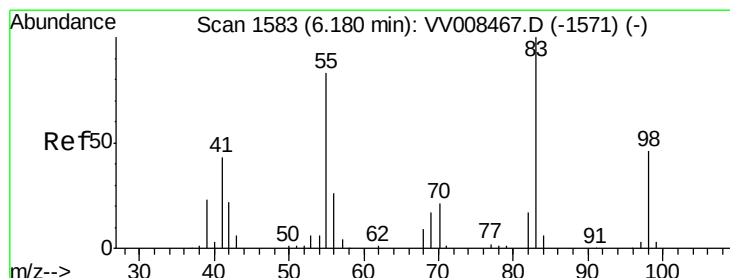
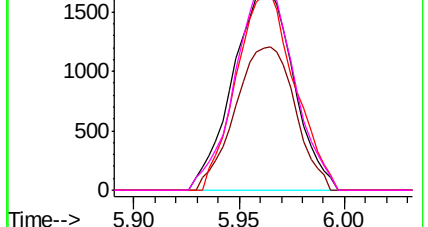


Abundance Ion 95.00 (94.70 to 95.70): VV008467.D (-1501) (-)

Ion 97.00 (96.70 to 97.70): VV008467.D (-1501) (-)

Ion 132.00 (131.70 to 132.70): VV008467.D (-1501) (-)

Ion 130.00 (129.70 to 130.70): VV008467.D (-1501) (-)



#35

Methylcyclohexane

Concen: 2.502 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.01 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

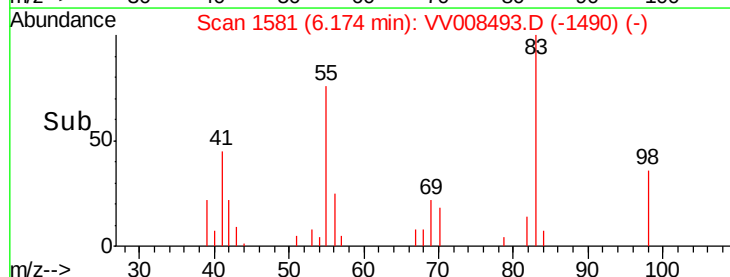
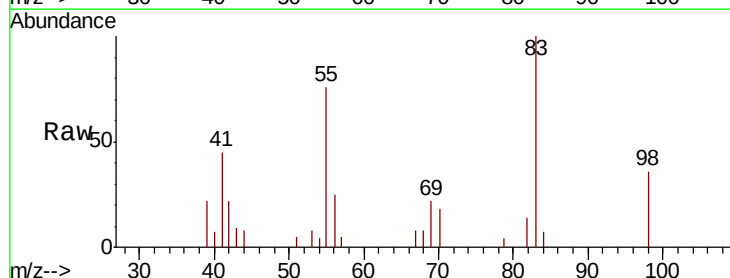
Tgt Ion: 83 Resp: 5744

Ion Ratio Lower Upper

83 100

55 82.1 63.8 95.8

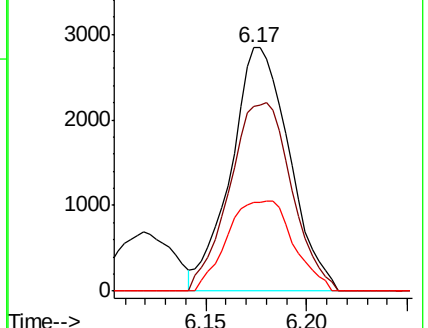
98 41.7 35.9 53.9



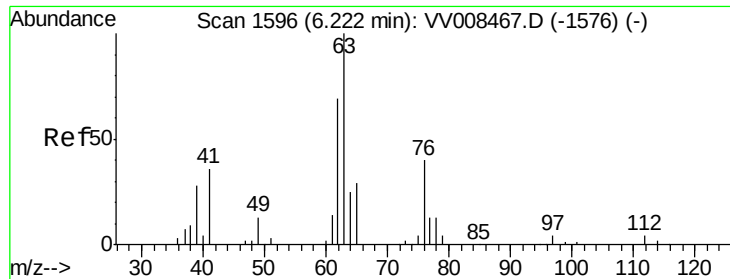
Abundance Ion 83.00 (82.70 to 83.70): VV008467.D (-1571) (-)

Ion 55.00 (54.70 to 55.70): VV008467.D (-1571) (-)

Ion 98.00 (97.70 to 98.70): VV008467.D (-1571) (-)



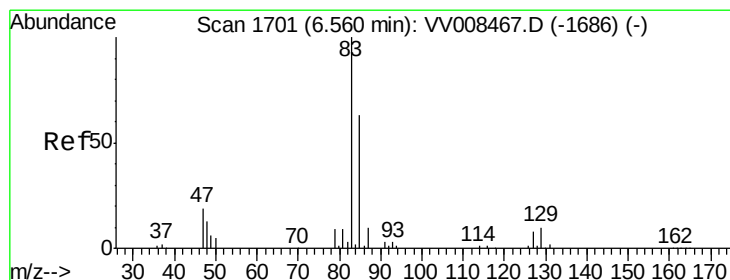
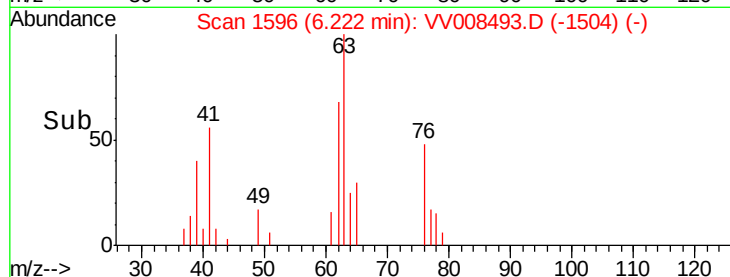
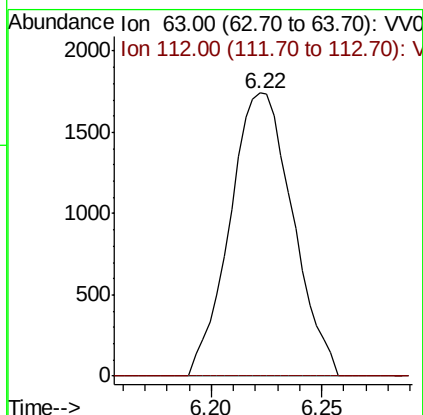
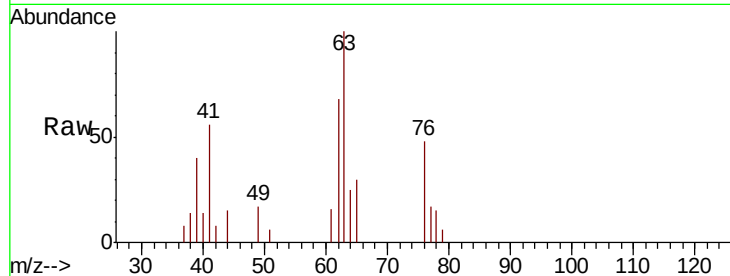




#37  
 1,2-Dichloropropane  
 Concen: 2.363 ug/L  
 RT: 6.22 min Scan# 1596  
 Delta R.T. -0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

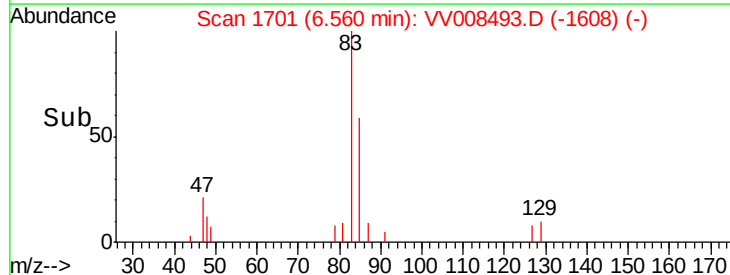
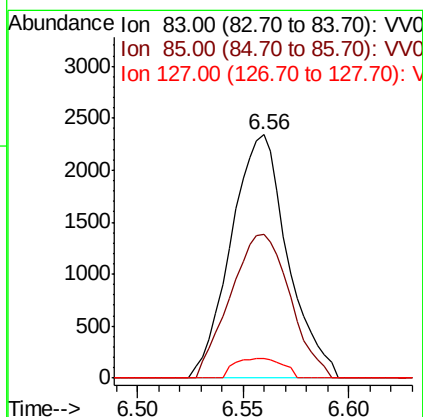
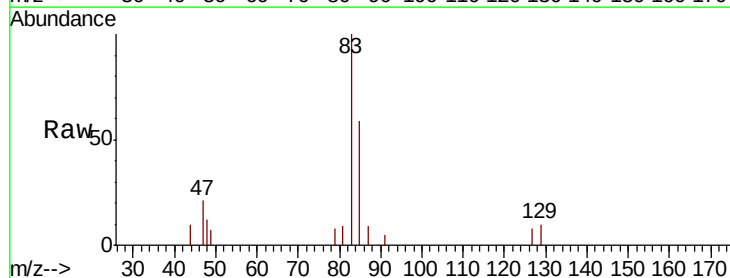
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

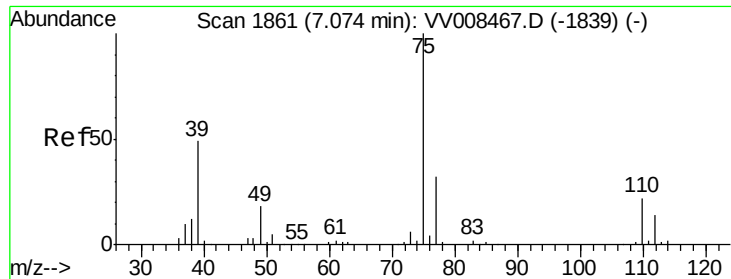
Tgt Ion: 63 Resp: 3442  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.1 4.7#



#38  
 Bromodichloromethane  
 Concen: 2.353 ug/L  
 RT: 6.56 min Scan# 1701  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Tgt Ion: 83 Resp: 4356  
 Ion Ratio Lower Upper  
 83 100  
 85 59.0 43.3 80.5  
 127 7.9 6.1 9.1

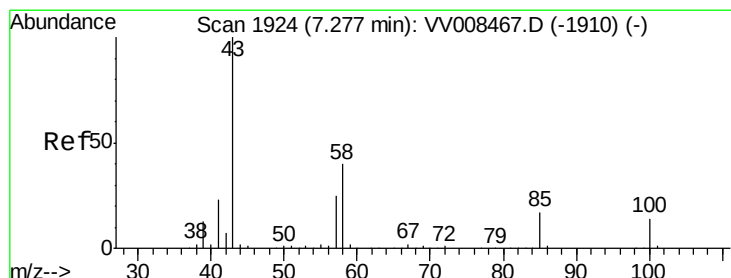
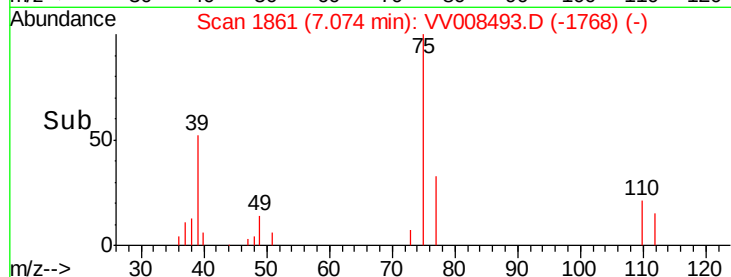
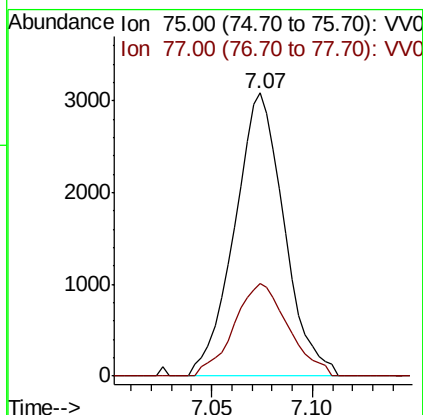
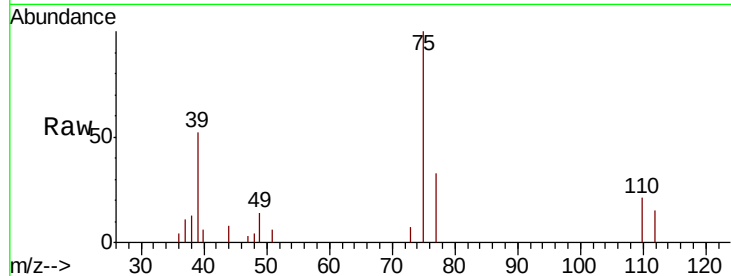




#39  
 cis-1,3-Dichloropropene  
 Concen: 2.324 ug/L  
 RT: 7.07 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

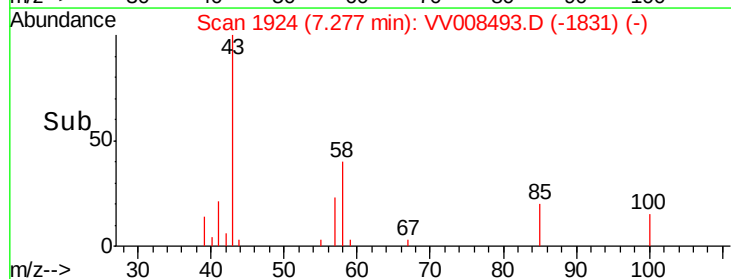
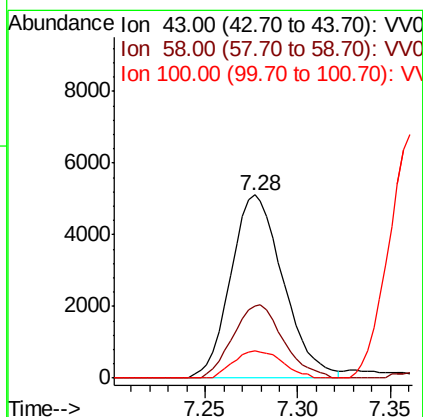
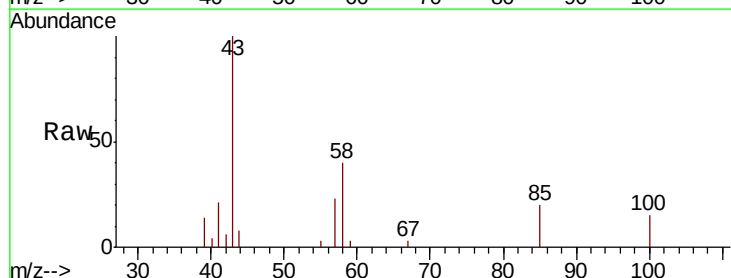
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

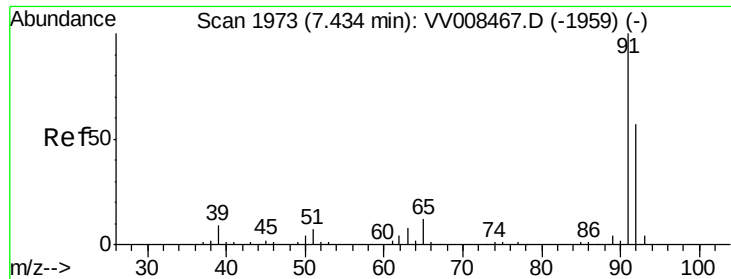
Tgt Ion: 75 Resp: 5311  
 Ion Ratio Lower Upper  
 75 100  
 77 32.5 22.1 41.1



#40  
 4-Methyl-2-pentanone  
 Concen: 4.653 ug/L  
 RT: 7.28 min Scan# 1924  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Tgt Ion: 43 Resp: 10038  
 Ion Ratio Lower Upper  
 43 100  
 58 38.2 30.8 46.2  
 100 13.7 11.0 16.6





#42

Toluene

Concen: 2.405 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

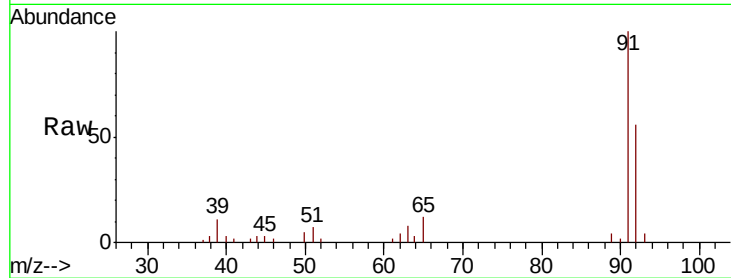
VSTD00551

Tgt Ion: 91 Resp: 13112

Ion Ratio Lower Upper

91 100

92 55.5 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VV008467.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV008467.D (-1959) (-)

7.43

8000

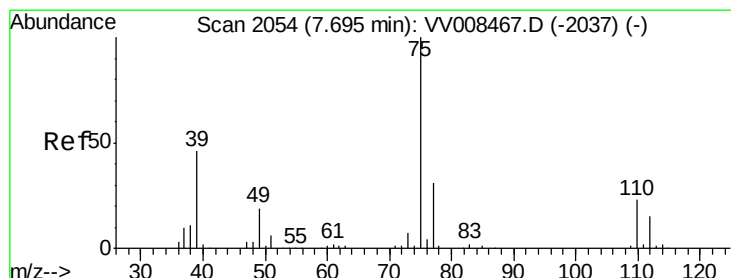
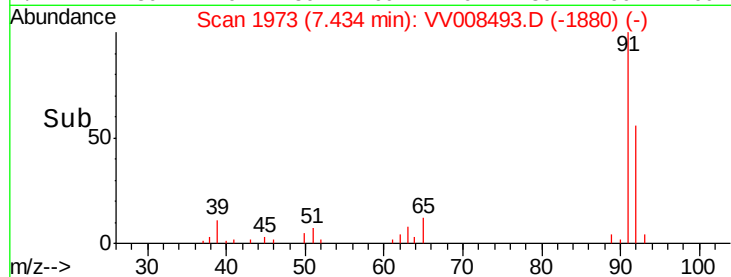
6000

4000

2000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.377 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008493.D

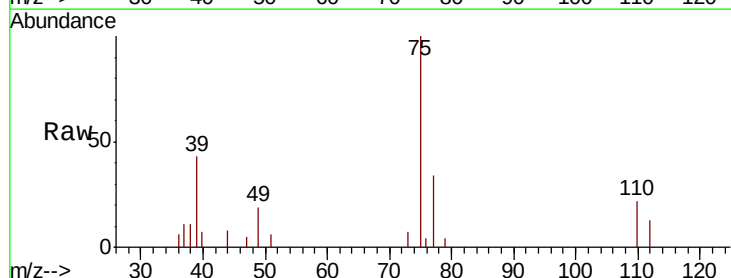
Acq: 31 Oct 2018 14:22

Tgt Ion: 75 Resp: 5088

Ion Ratio Lower Upper

75 100

77 34.4 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV008467.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV008467.D (-2037) (-)

7.70

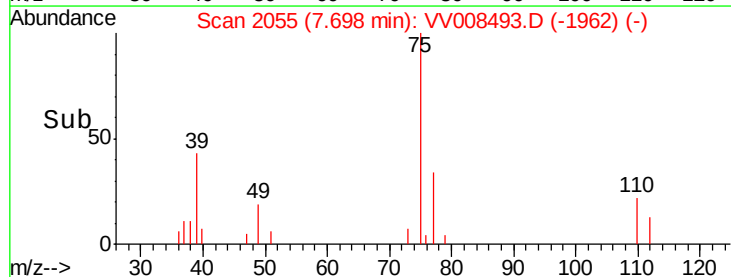
3000

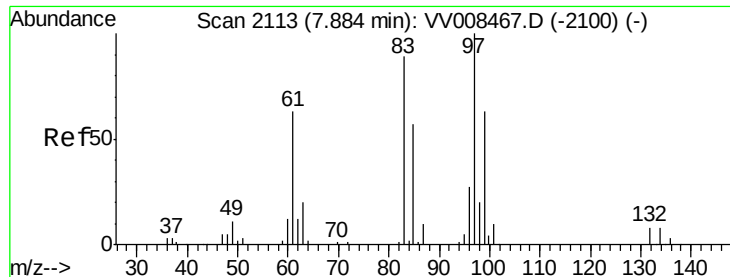
2000

1000

0

Time-->

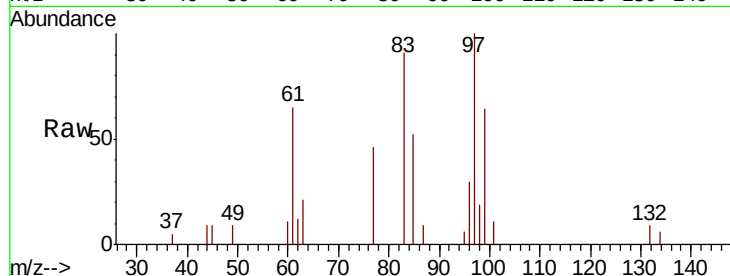




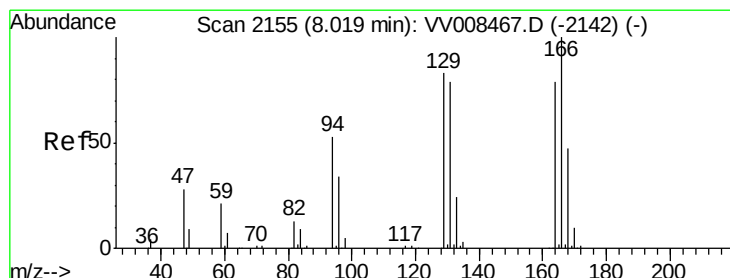
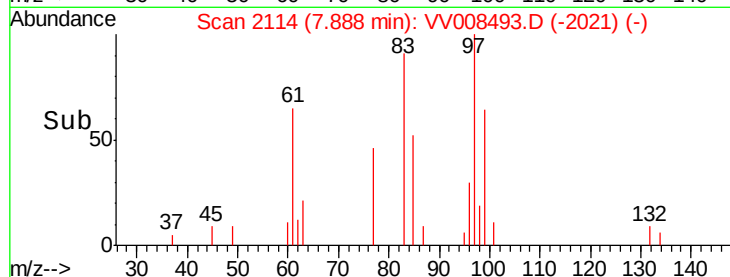
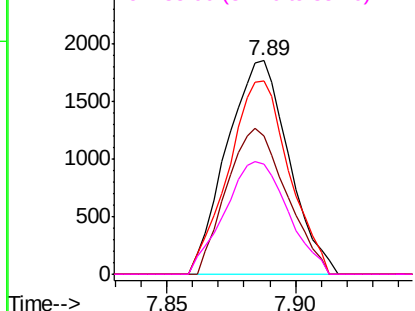
#45  
 1,1,2-Trichloroethane  
 Concen: 2.434 ug/L  
 RT: 7.89 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 3121  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.5  | 44.7  | 83.1  |
| 83       | 90.8  | 63.6  | 118.0 |
| 85       | 51.6  | 40.9  | 75.9  |

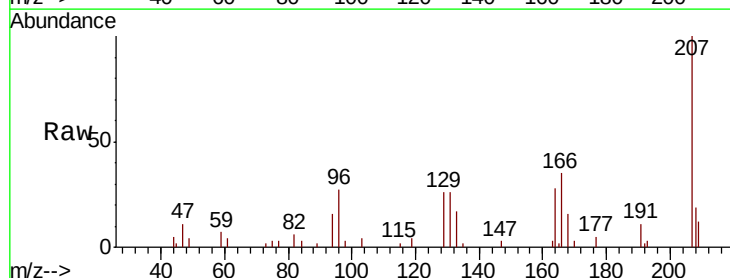


Abundance Ion 97.00 (96.70 to 97.70): VV0  
 Ion 99.00 (98.70 to 99.70): VV0  
 Ion 83.00 (82.70 to 83.70): VV0  
 Ion 85.00 (84.70 to 85.70): VV0

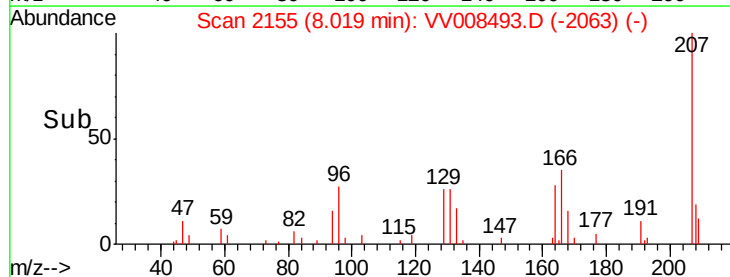
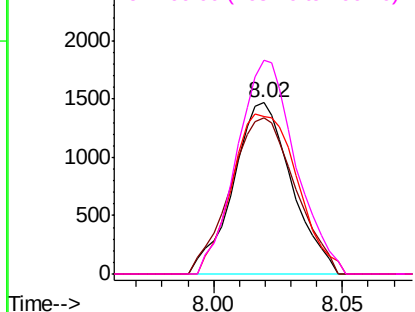


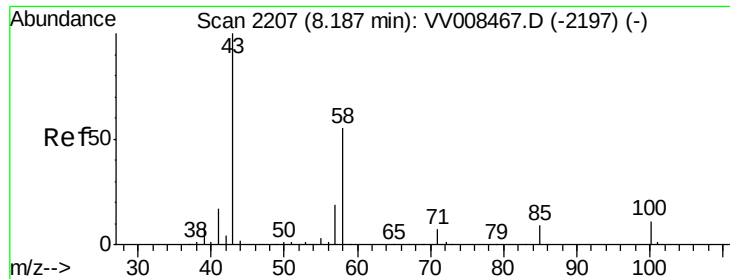
#46  
 Tetrachloroethene  
 Concen: 2.626 ug/L  
 RT: 8.02 min Scan# 2155  
 Delta R.T. -0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 2324  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 91.4  | 72.0  | 133.6 |
| 131      | 91.7  | 68.8  | 127.8 |
| 166      | 124.6 | 86.5  | 160.7 |



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

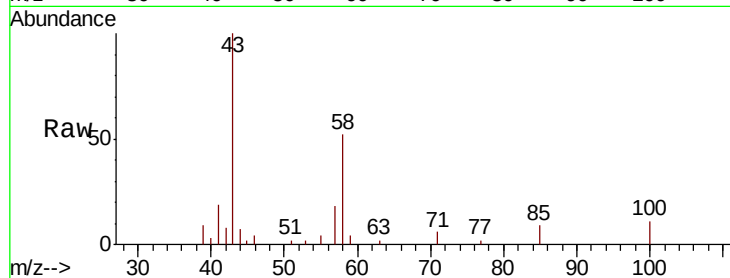




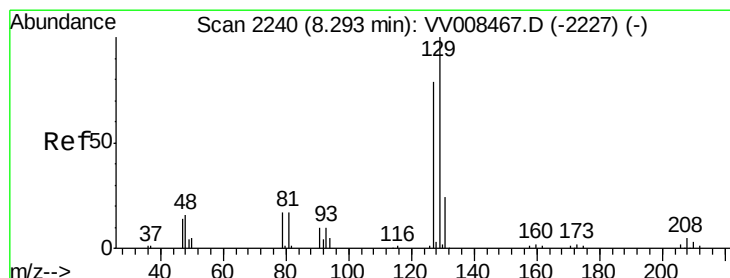
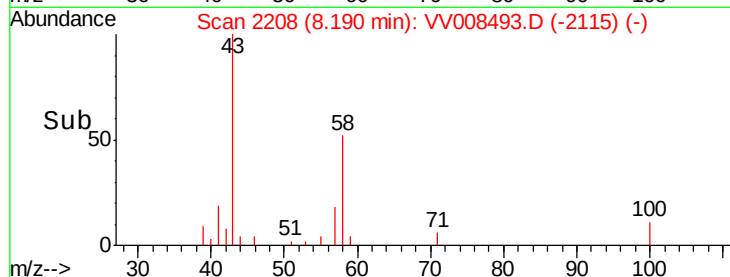
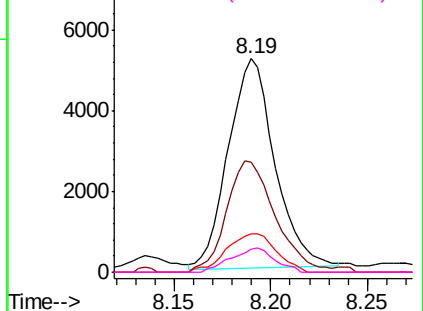
#48  
2-Hexanone  
Concen: 5.138 ug/L  
RT: 8.19 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00551

Tgt Ion: 43 Resp: 8682  
Ion Ratio Lower Upper  
43 100  
58 55.1 43.6 65.4  
57 19.3 15.0 22.6  
100 10.9 8.3 12.5

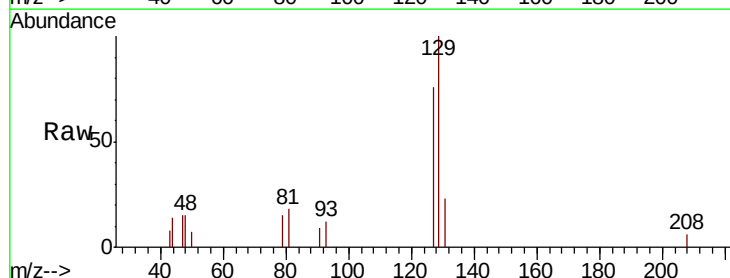


Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0

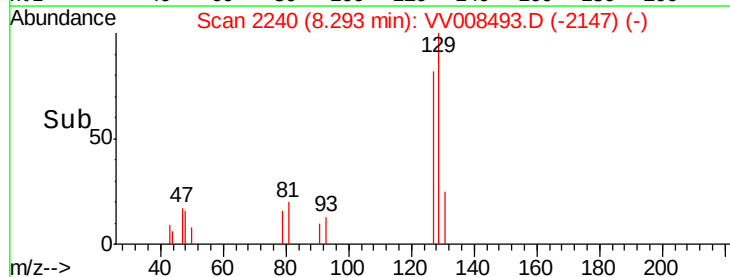
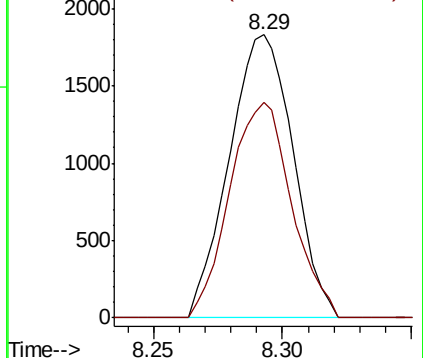


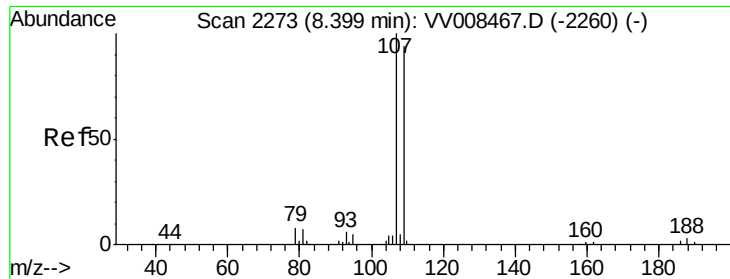
#49  
Dibromochloromethane  
Concen: 2.294 ug/L  
RT: 8.29 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

Tgt Ion: 129 Resp: 3164  
Ion Ratio Lower Upper  
129 100  
127 76.0 53.9 100.1



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

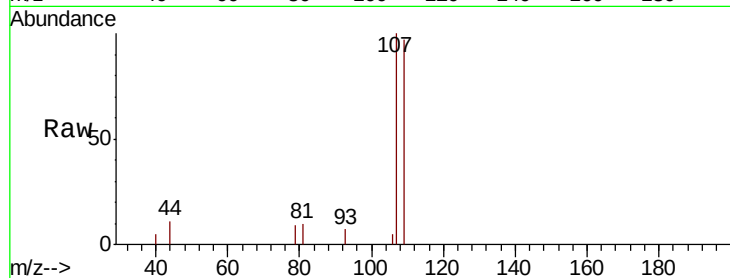




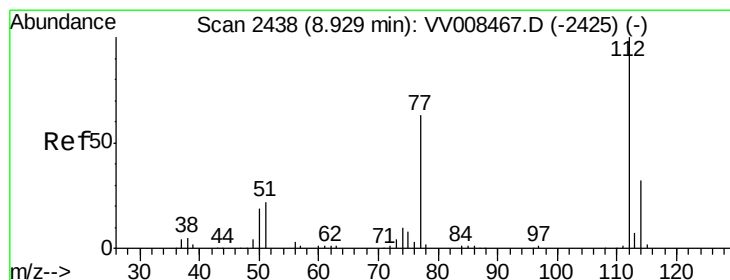
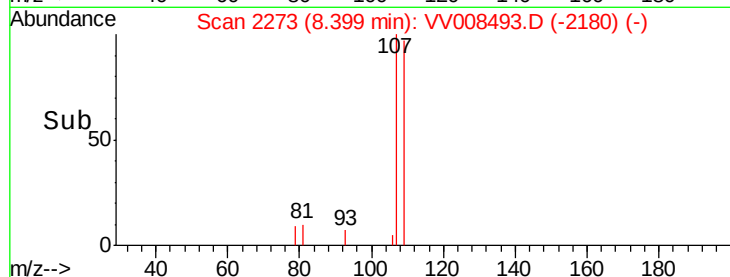
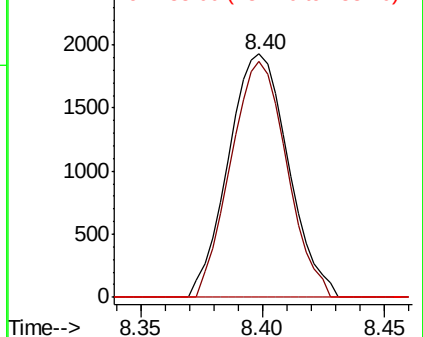
#50  
1,2-Dibromoethane  
Concen: 2.451 ug/L  
RT: 8.40 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00551

Tgt Ion:107 Resp: 3296  
Ion Ratio Lower Upper  
107 100  
109 97.0 67.3 125.1  
188 0.0 2.6 3.8#

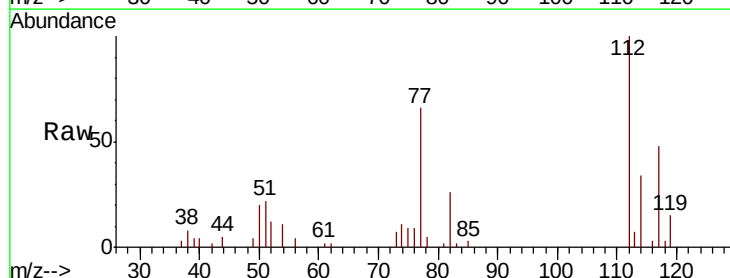


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

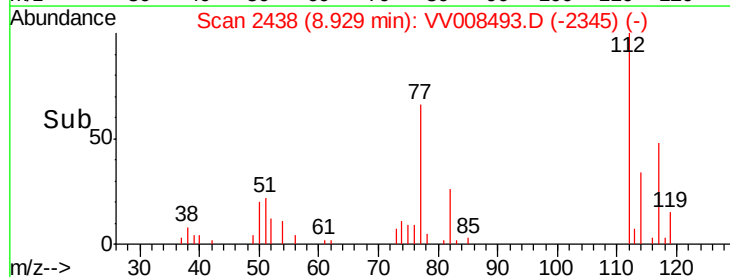
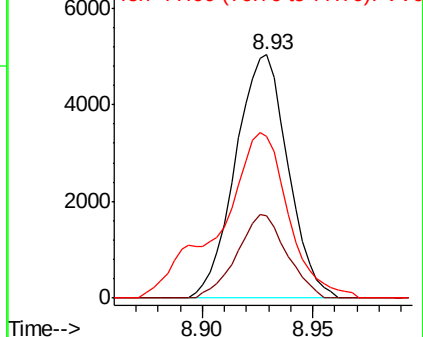


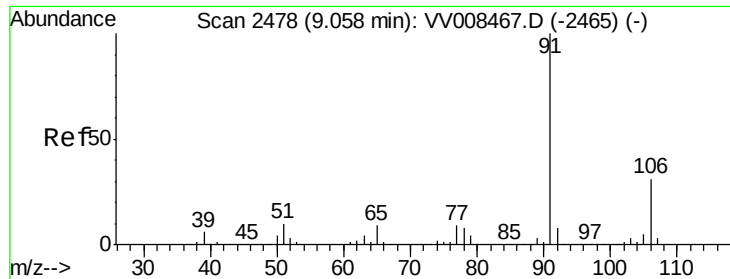
#51  
Chlorobenzene  
Concen: 2.461 ug/L  
RT: 8.93 min Scan# 2438  
Delta R.T. 0.00 min  
Lab File: VV008493.D  
Acq: 31 Oct 2018 14:22

Tgt Ion:112 Resp: 8294  
Ion Ratio Lower Upper  
112 100  
114 33.7 22.3 41.5  
77 66.3 50.5 75.7



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 2.378 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

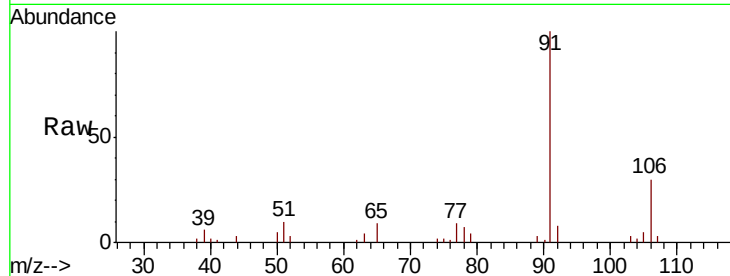
VSTD00551

Tgt Ion: 91 Resp: 14557

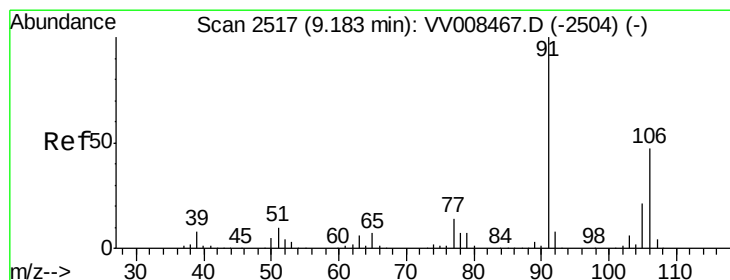
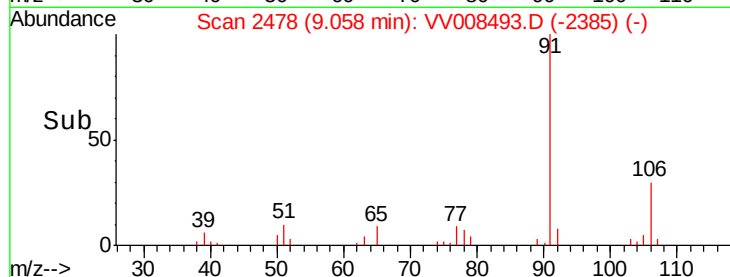
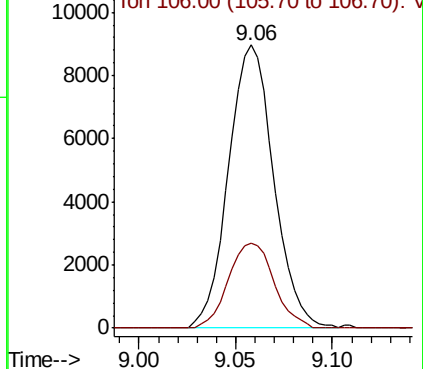
Ion Ratio Lower Upper

91 100

106 30.0 21.4 39.8



Abundance Ion 91.00 (90.70 to 91.70): VV008493.D (-2385) (-)



#53

m,p-Xylene

Concen: 2.433 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV008493.D

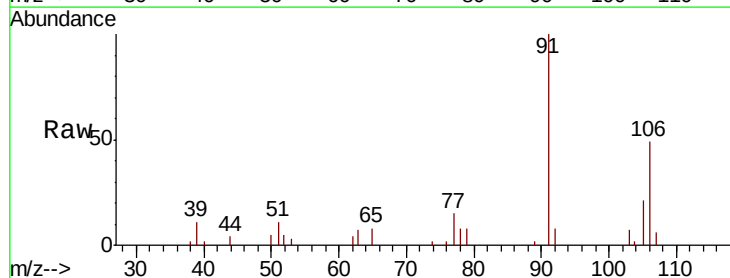
Acq: 31 Oct 2018 14:22

Tgt Ion: 106 Resp: 5468

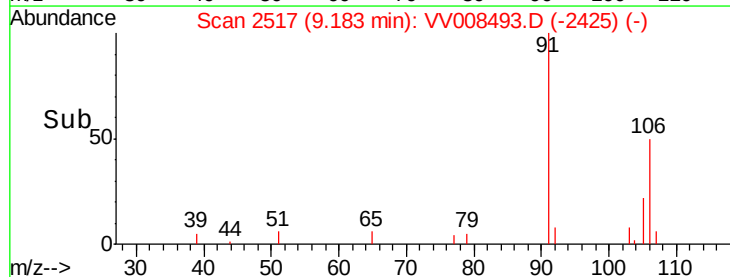
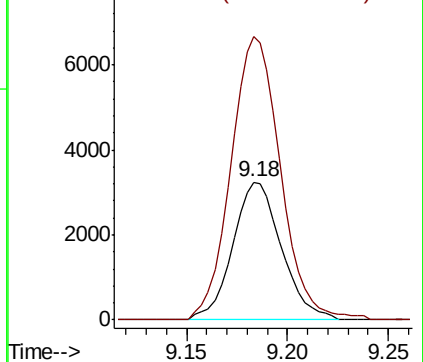
Ion Ratio Lower Upper

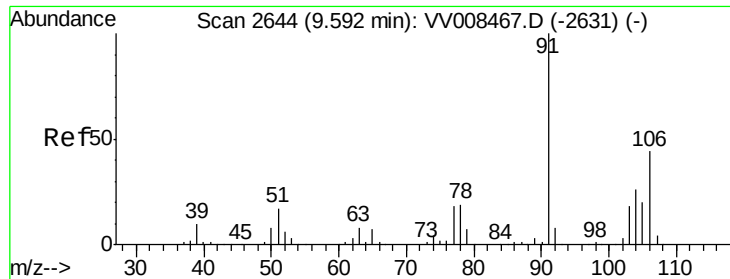
106 100

91 205.2 146.4 271.8



Abundance Ion 106.00 (105.70 to 106.70): VV008493.D (-2425) (-)





#54

o-xylene

Concen: 2.199 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampled :

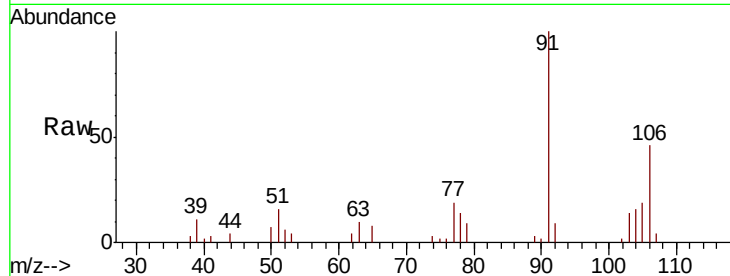
VSTD00551

Tgt Ion:106 Resp: 4931

Ion Ratio Lower Upper

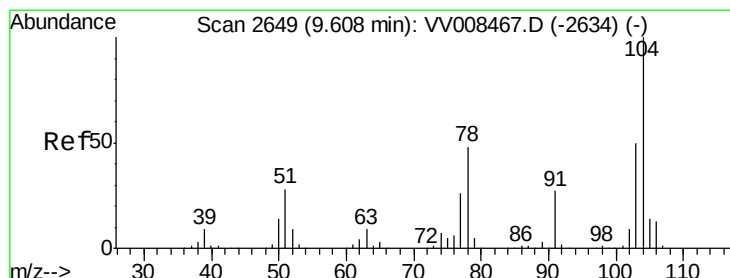
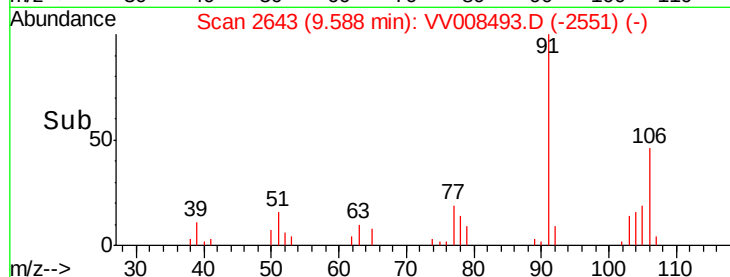
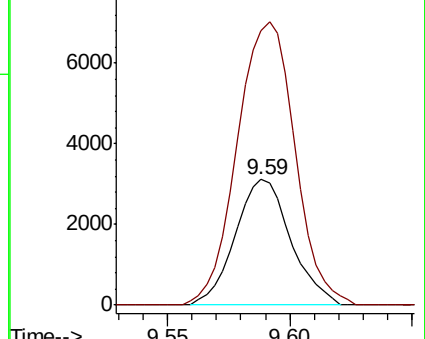
106 100

91 219.0 156.9 291.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 2.296 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008493.D

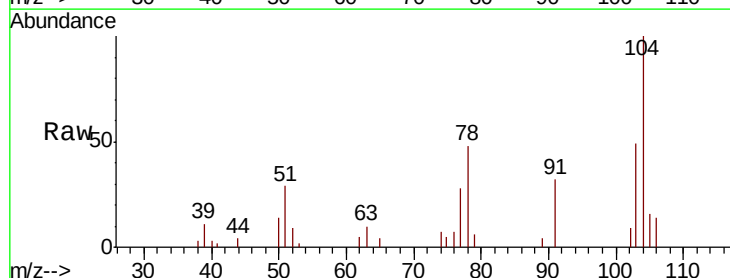
Acq: 31 Oct 2018 14:22

Tgt Ion:104 Resp: 8669

Ion Ratio Lower Upper

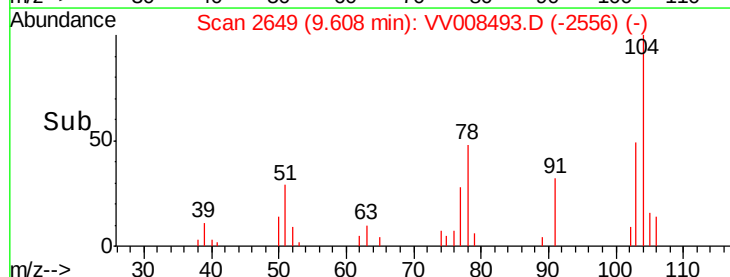
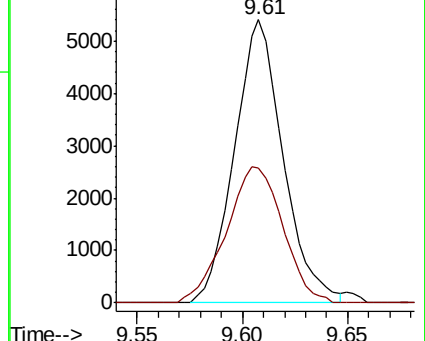
104 100

78 47.6 33.7 62.7

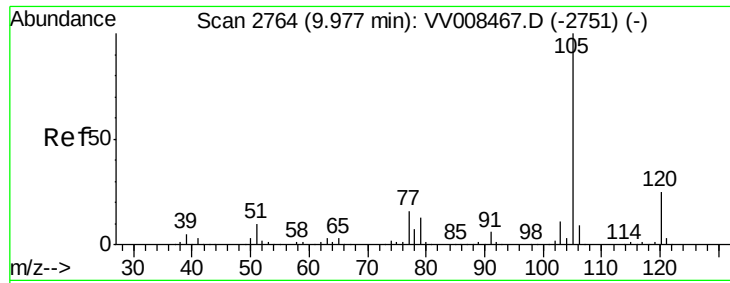


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0







#56

Isopropylbenzene

Concen: 2.238 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00551

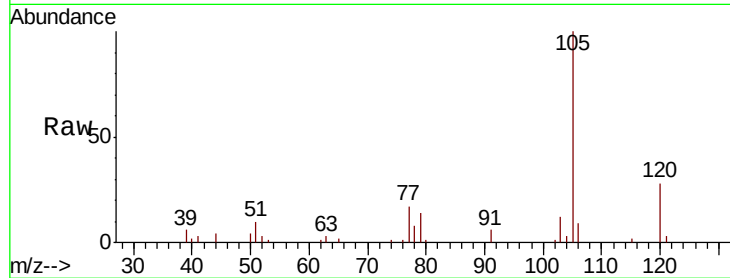
Tgt Ion:105 Resp: 13133

Ion Ratio Lower Upper

105 100

120 27.1 20.4 30.6

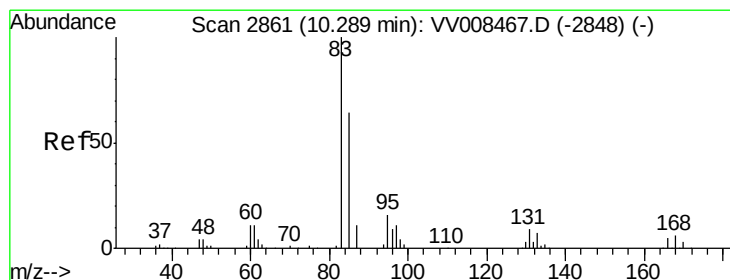
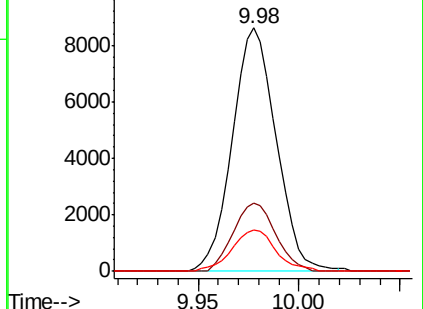
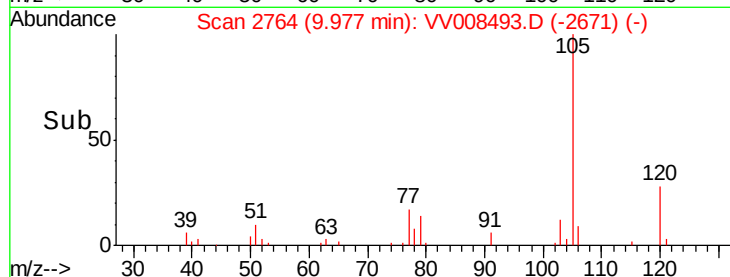
77 17.1 13.3 19.9



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: 2.295 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

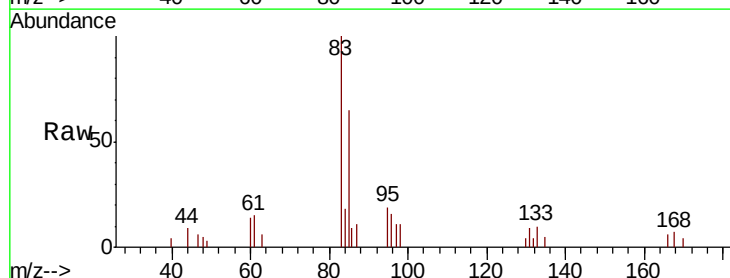
Tgt Ion: 83 Resp: 5181

Ion Ratio Lower Upper

83 100

85 64.6 45.1 83.9

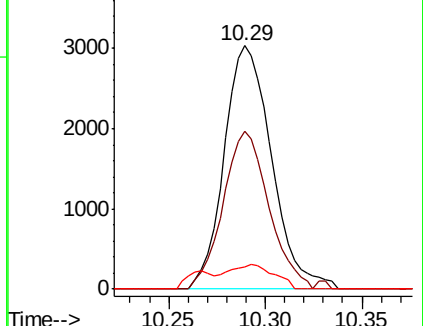
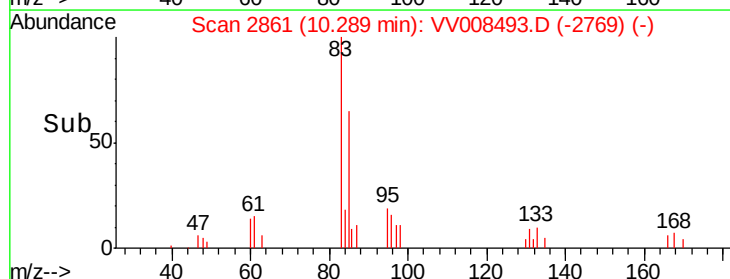
131 9.2 7.4 11.2

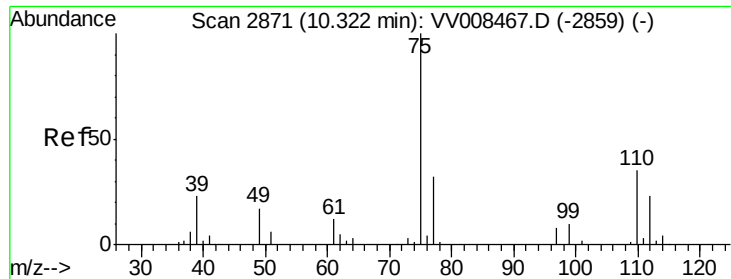


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

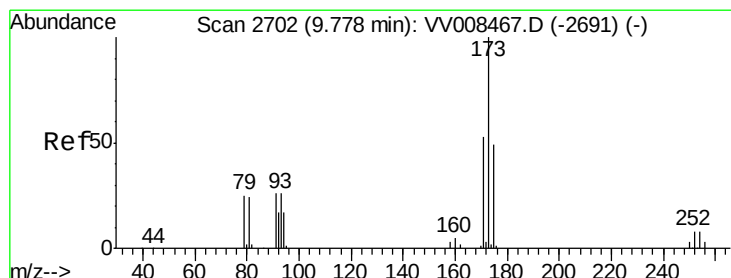
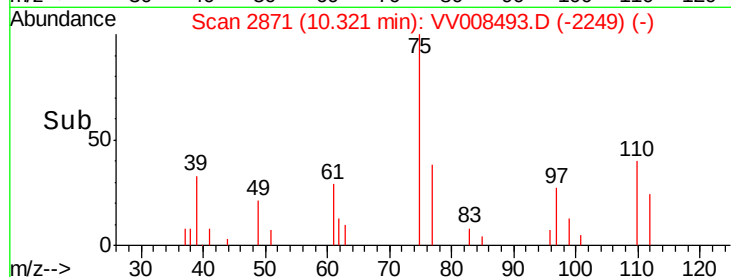
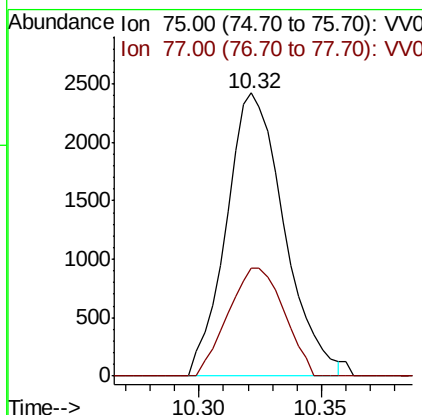
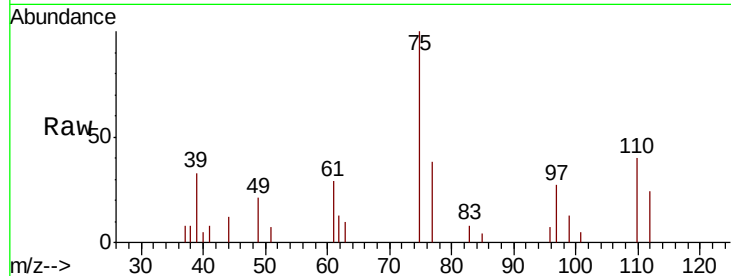




#59  
 1,2,3-Trichloropropane  
 Concen: 2.176 ug/L  
 RT: 10.32 min Scan# 2871  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

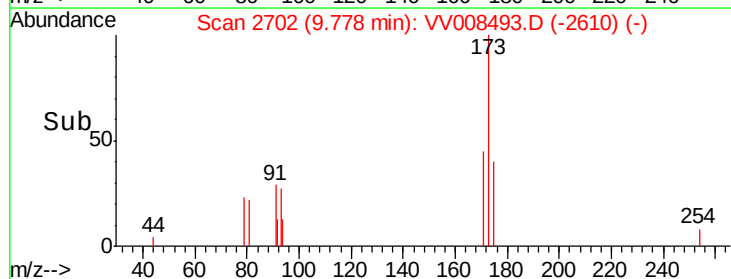
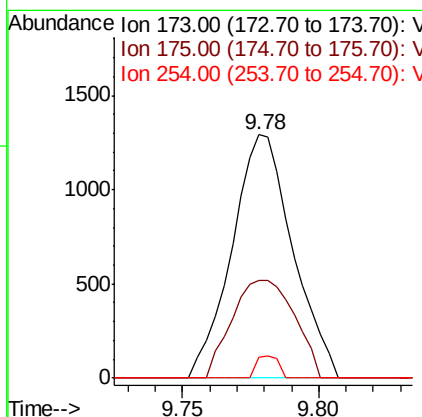
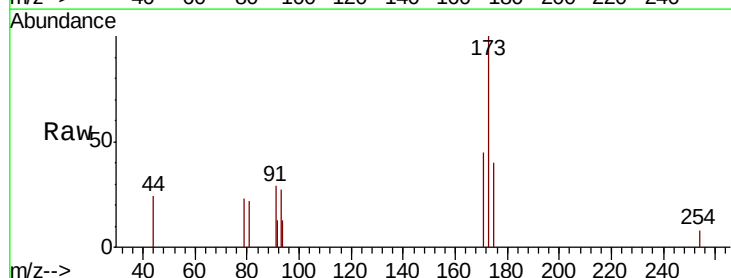
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

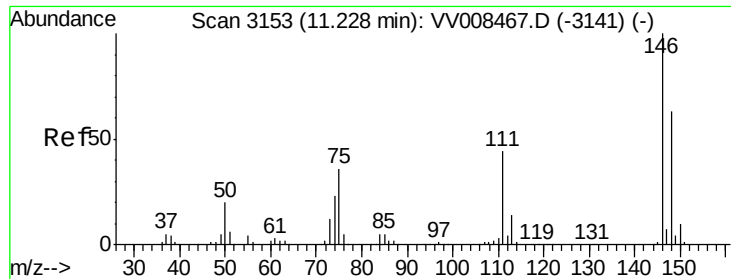
Tgt Ion: 75 Resp: 3985  
 Ion Ratio Lower Upper  
 75 100  
 77 36.8 25.9 38.9



#61  
 Bromoform  
 Concen: 2.394 ug/L  
 RT: 9.78 min Scan# 2702  
 Delta R.T. -0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Tgt Ion: 173 Resp: 1996  
 Ion Ratio Lower Upper  
 173 100  
 175 41.5 38.6 57.8  
 254 3.2 6.0 9.0#

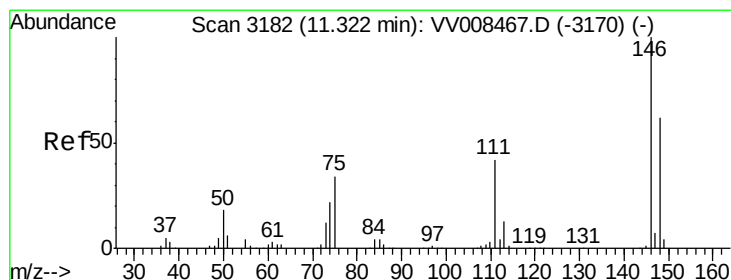
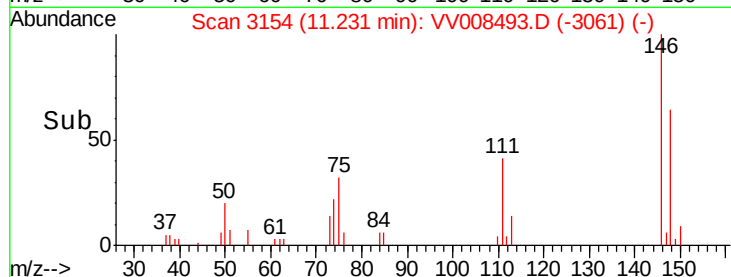
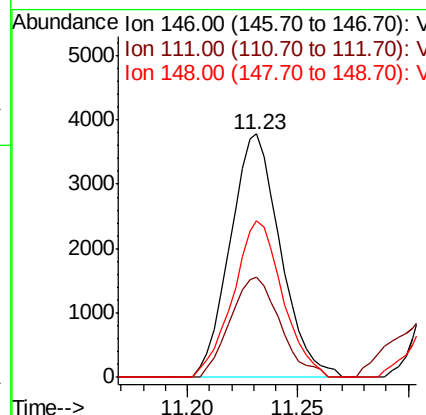
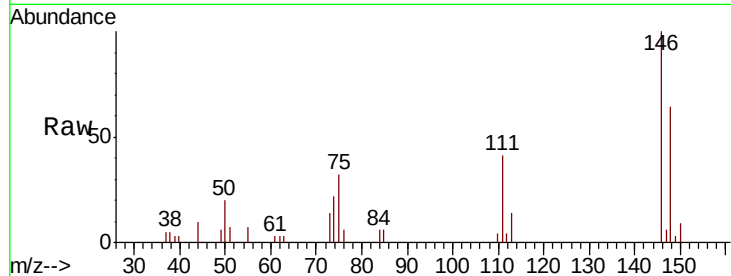




#62  
 1,3-Dichlorobenzene  
 Concen: 2.720 ug/L  
 RT: 11.23 min Scan# 3154  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

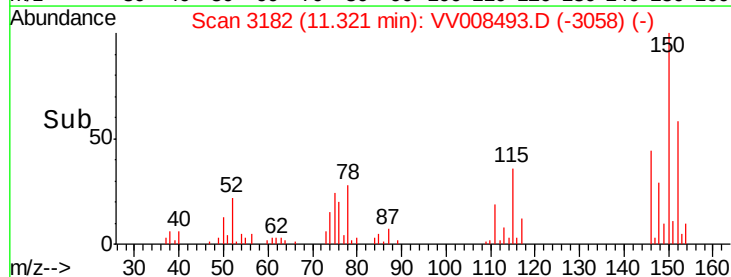
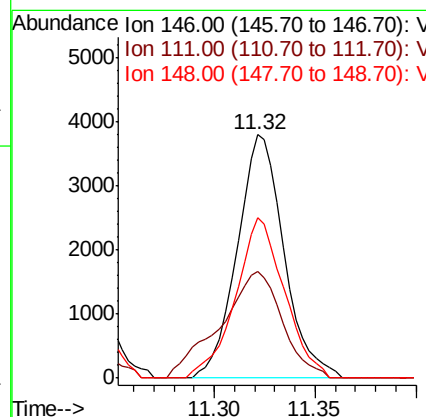
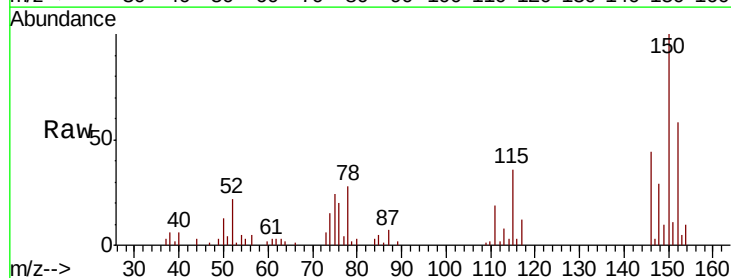
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

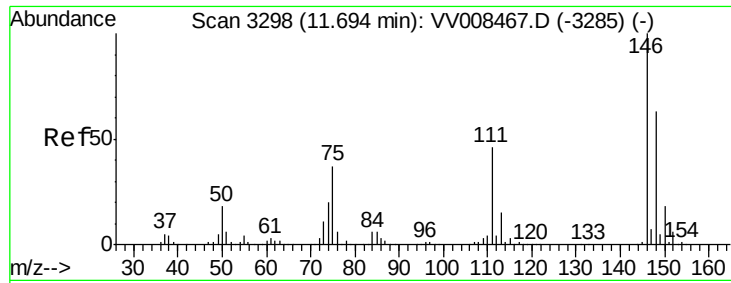
Tgt Ion:146 Resp: 5981  
 Ion Ratio Lower Upper  
 146 100  
 111 41.0 30.3 56.3  
 148 64.1 44.7 82.9



#63  
 1,4-Dichlorobenzene  
 Concen: 2.801 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Tgt Ion:146 Resp: 6162  
 Ion Ratio Lower Upper  
 146 100  
 111 43.7 29.8 55.4  
 148 65.7 44.5 82.7

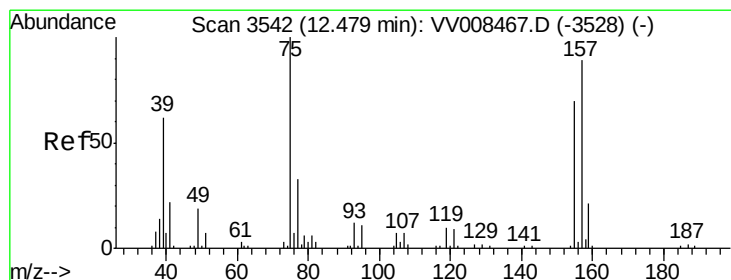
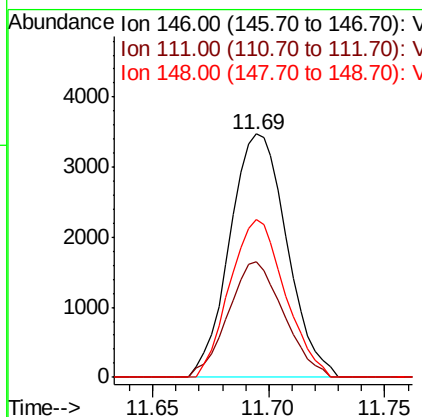
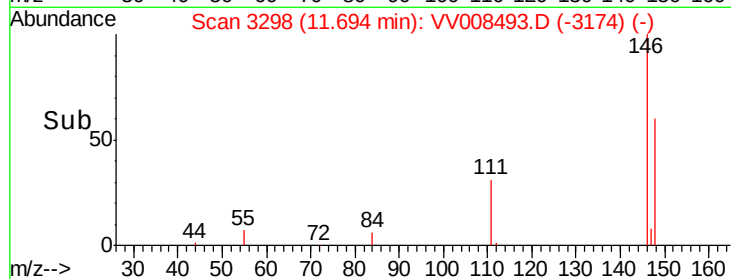
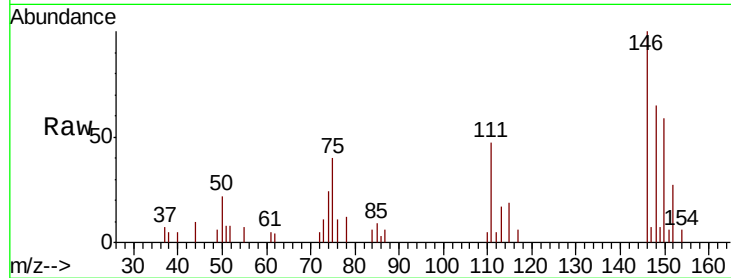




#65  
 1,2-Dichlorobenzene  
 Concen: 2.650 ug/L  
 RT: 11.69 min Scan# 3298  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

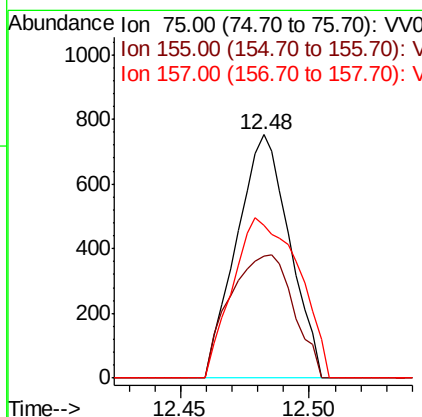
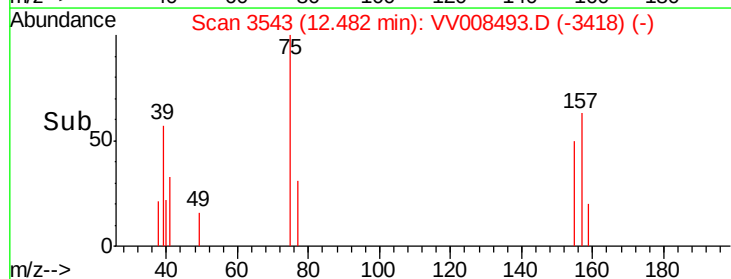
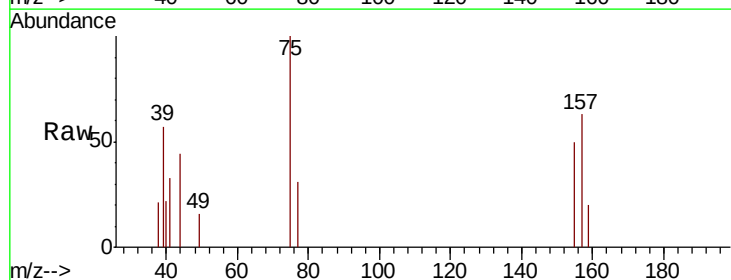
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

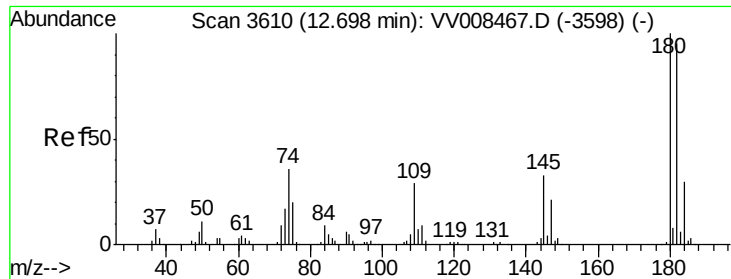
Tgt Ion: 146 Resp: 5933  
 Ion Ratio Lower Upper  
 146 100  
 111 47.5 35.9 53.9  
 148 64.6 50.6 76.0



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.355 ug/L  
 RT: 12.48 min Scan# 3543  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Tgt Ion: 75 Resp: 1075  
 Ion Ratio Lower Upper  
 75 100  
 155 50.3 55.8 83.8#  
 157 62.8 72.0 108.0#

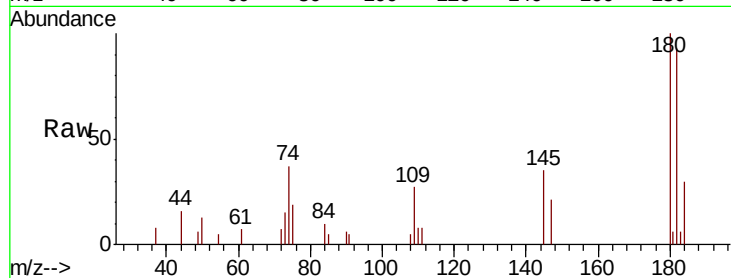




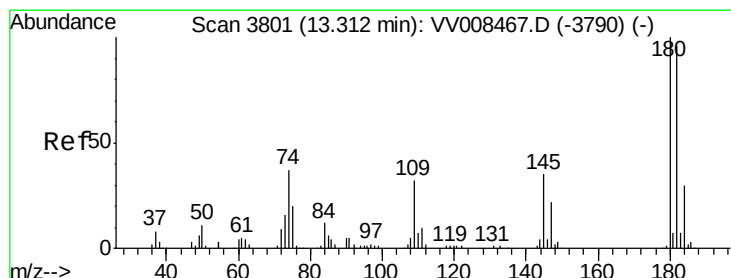
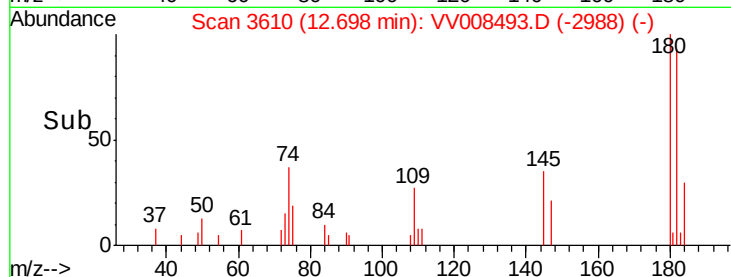
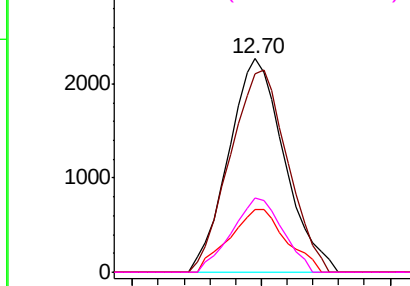
#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.380 ug/L  
 RT: 12.70 min Scan# 3610  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00551

Tgt Ion:180 Resp: 3425  
 Ion Ratio Lower Upper  
 180 100  
 182 97.0 75.6 113.4  
 184 29.8 23.6 35.4  
 145 31.6 26.2 39.4

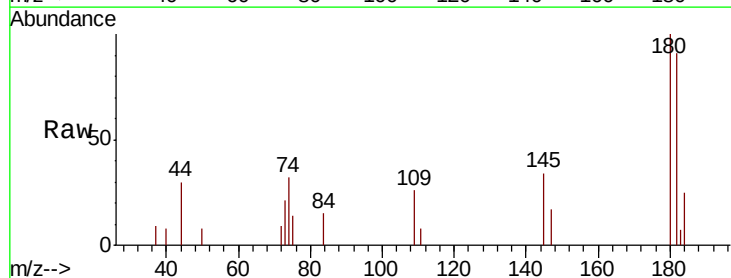


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

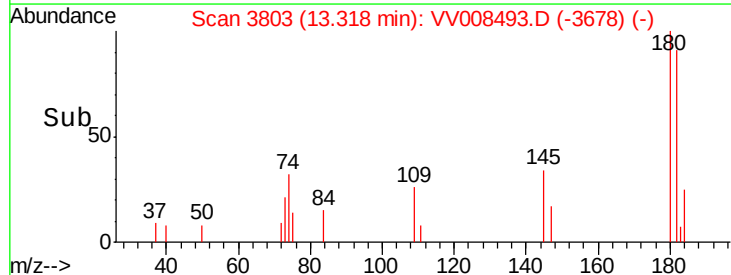
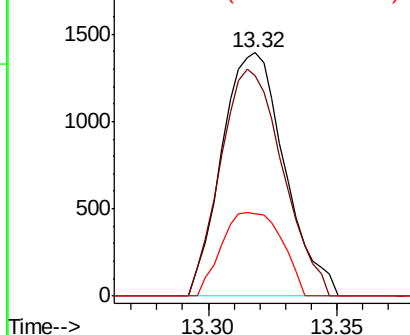


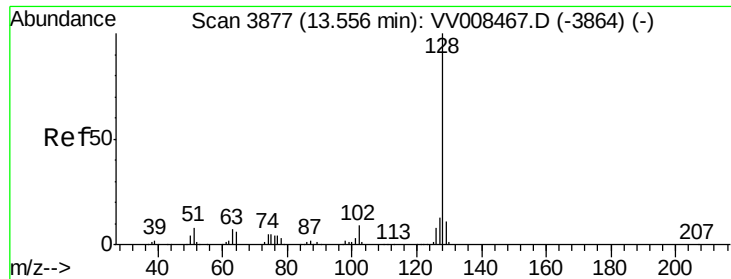
#68  
 1,2,4-trichlorobenzene  
 Concen: 2.048 ug/L  
 RT: 13.32 min Scan# 3803  
 Delta R.T. 0.00 min  
 Lab File: VV008493.D  
 Acq: 31 Oct 2018 14:22

Tgt Ion:180 Resp: 2366  
 Ion Ratio Lower Upper  
 180 100  
 182 92.3 75.9 113.9  
 145 33.0 27.2 40.8



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





#69

Naphthalene

Concen: 1.816 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

Instrument :

MSVOA\_V

ClientSampled :

VSTD00551

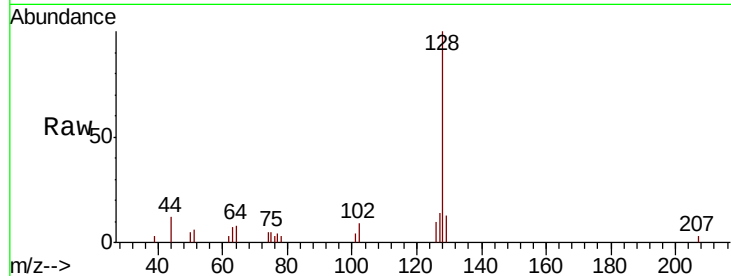
Tgt Ion:128 Resp: 6731

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

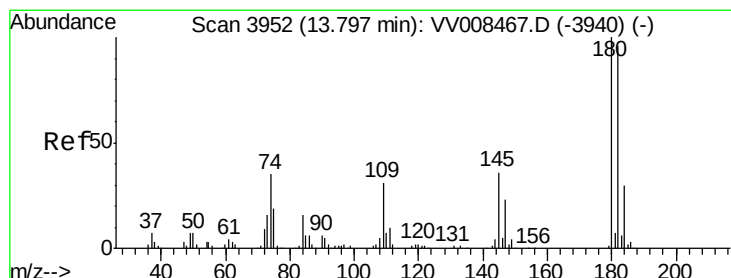
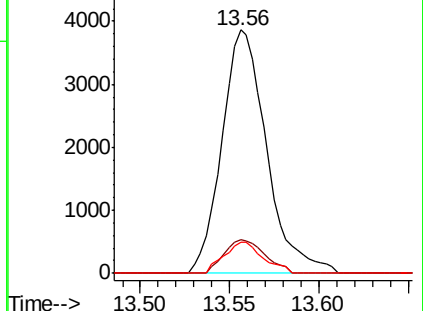
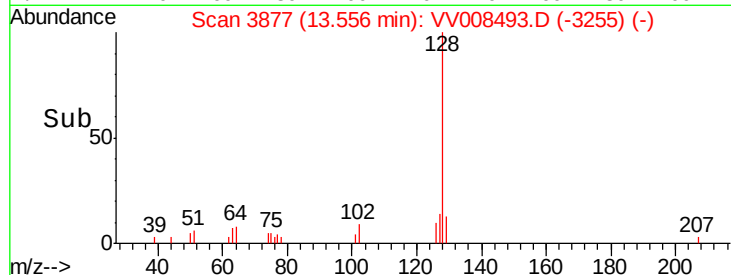
129 11.2 8.5 12.7



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: 1.857 ug/L

RT: 13.80 min Scan# 3953

Delta R.T. 0.00 min

Lab File: VV008493.D

Acq: 31 Oct 2018 14:22

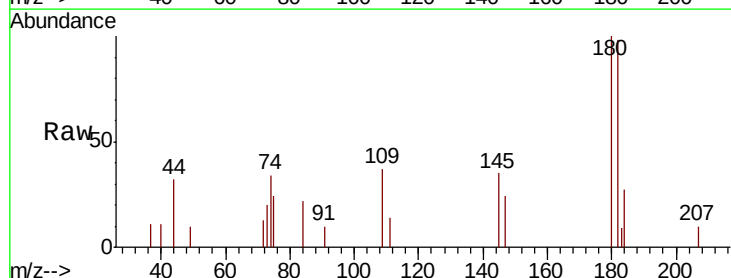
Tgt Ion:180 Resp: 2149

Ion Ratio Lower Upper

180 100

182 93.8 75.1 112.7

145 35.9 29.0 43.4



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

