

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\  
 Data File : VV019226.D  
 Acq On : 03 Nov 2020 03:15  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

Quant Time: Nov 03 05:32:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM110320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 03 05:28:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 219094   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 208119   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 111525   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 86325    | 51.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.10% |
| 7) Chloroethane-d5             | 1.58    | 69    | 74184    | 55.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 111.98% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 164076   | 52.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 104.82% |
| 21) 2-Butanone-d5              | 3.91    | 46    | 116573   | 125.03   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 125.03% |
| 24) Chloroform-d               | 4.38    | 84    | 171073   | 54.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.12% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 122922   | 55.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 111.50% |
| 32) Benzene-d6                 | 5.07    | 84    | 310999   | 54.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.24% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 95754    | 55.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 111.62% |
| 41) Toluene-d8                 | 7.33    | 98    | 276922   | 51.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.46% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 53214    | 54.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 109.56% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 82061    | 123.20   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 123.20% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 130824   | 57.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 114.44% |
| 66) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 116400   | 52.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.34% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 66486  | 49.533  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 80784  | 57.800  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 79406  | 54.581  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 60275  | 61.647  | ug/L 99  |
| 8) Chloroethane                | 1.60 | 64  | 58130  | 61.094  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 123556 | 51.301  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 56823  | 49.654  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 64412  | 54.459  | ug/L 97  |
| 13) Acetone                    | 2.19 | 43  | 83284  | 117.465 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 177290 | 52.200  | ug/L 100 |
| 15) Methyl Acetate             | 2.45 | 43  | 84780  | 61.713  | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 83249  | 59.209  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 69137  | 53.882  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 273041 | 60.537  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 145622 | 57.924  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 81187  | 57.255  | ug/L 91  |
| 22) 2-Butanone                 | 3.99 | 43  | 111846 | 124.274 | ug/L 100 |

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 ClientSampleId :  
 VSTD050310

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM110320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 03 05:28:09 2020  
 Response via : Initial Calibration

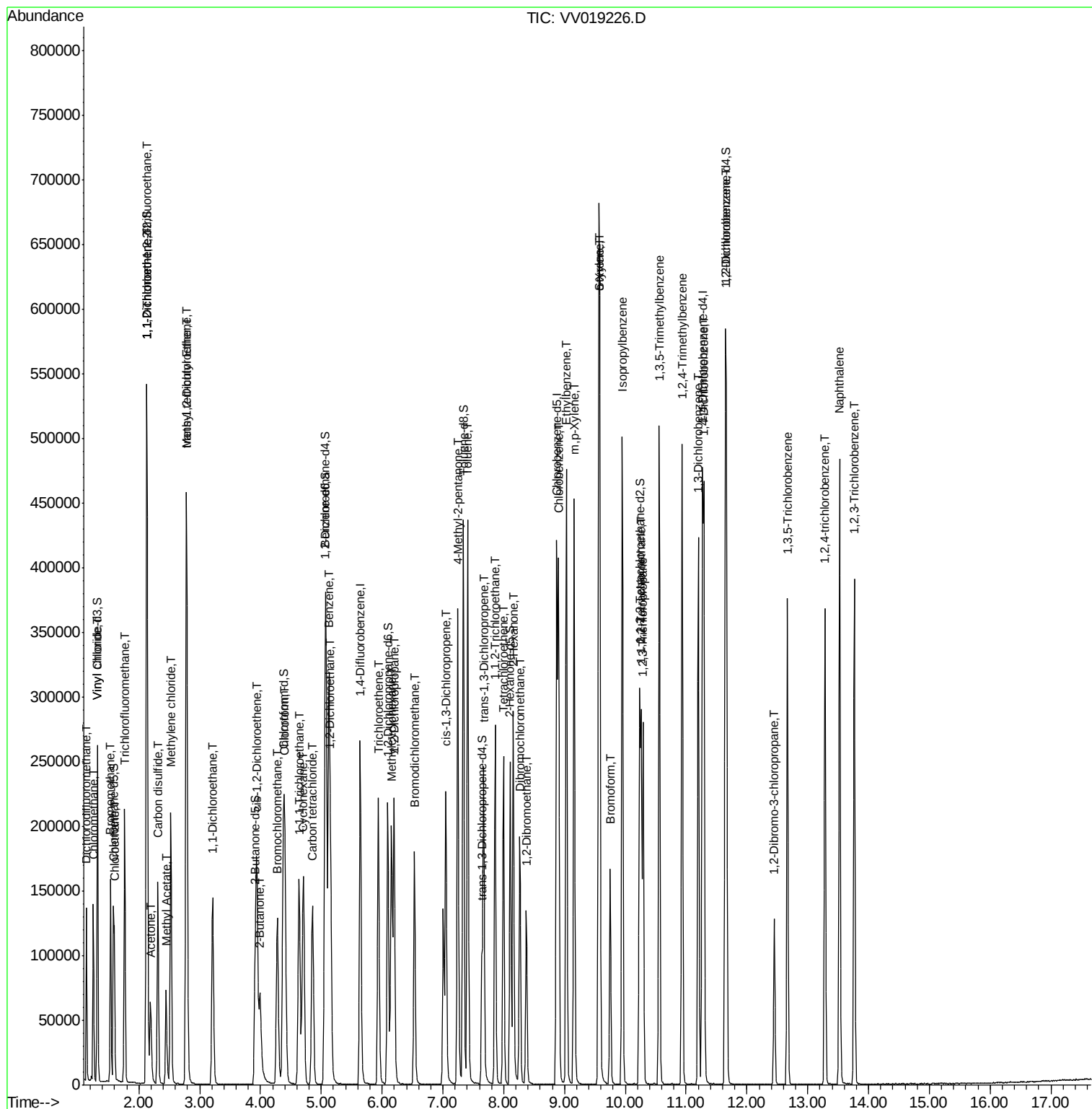
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.28  | 128  | 44494    | 56.989  | ug/L  | 98       |
| 25) Chloroform                 | 4.40  | 83   | 152864   | 56.715  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 135530   | 59.155  | ug/L  | 99       |
| 29) Cyclohexane                | 4.70  | 56   | 85953    | 48.260  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.63  | 97   | 129106   | 53.489  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 4.86  | 117  | 105589   | 50.664  | ug/L  | 98       |
| 33) Benzene                    | 5.13  | 78   | 298257   | 57.666  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 74882    | 53.275  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.15  | 83   | 81235    | 47.749  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 78626    | 56.961  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 116568   | 58.680  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 125497   | 56.820  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.24  | 43   | 231991   | 125.106 | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 306953   | 54.905  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 132198   | 58.409  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 80387    | 58.920  | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.00  | 164  | 56047    | 48.870  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.15  | 43   | 175180   | 124.955 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.27  | 129  | 97024    | 59.630  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 85000    | 60.106  | ug/L  | 99       |
| 51) Chlorobenzene              | 8.90  | 112  | 201136   | 53.785  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.03  | 91   | 321636   | 52.146  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.16  | 106  | 121684   | 52.695  | ug/L  | 96       |
| 54) o-Xylene                   | 9.56  | 106  | 122616   | 53.870  | ug/L  | 97       |
| 55) Styrene                    | 9.58  | 104  | 221851   | 54.756  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 123335   | 59.753  | ug/L  | 99       |
| 59) Bromoform                  | 9.75  | 173  | 75296    | 60.832  | ug/L  | 99       |
| 60) Isopropylbenzene           | 9.95  | 105  | 306799   | 52.488  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane     | 10.29 | 75   | 104417   | 60.265  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 262788   | 53.979  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 261405   | 54.875  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 11.20 | 146  | 163767   | 53.564  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 11.29 | 146  | 167474   | 52.946  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene        | 11.67 | 146  | 168904   | 53.999  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 30603    | 60.544  | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 115232   | 52.511  | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene     | 13.28 | 180  | 111225   | 53.866  | ug/L  | 100      |
| 71) Naphthalene                | 13.52 | 128  | 360592   | 61.921  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 115350   | 56.354  | ug/L  | 100      |

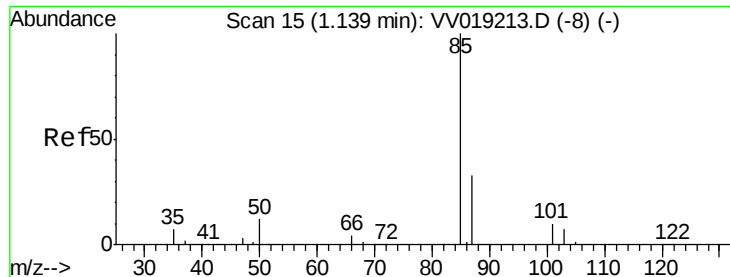
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 49.533 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

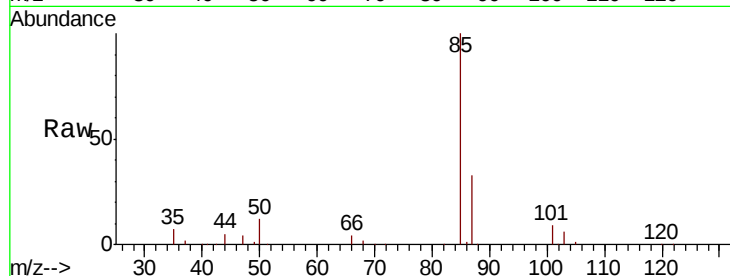
VSTD050310

Tot Ion: 85 Resp: 66486

Ion Ratio Lower Upper

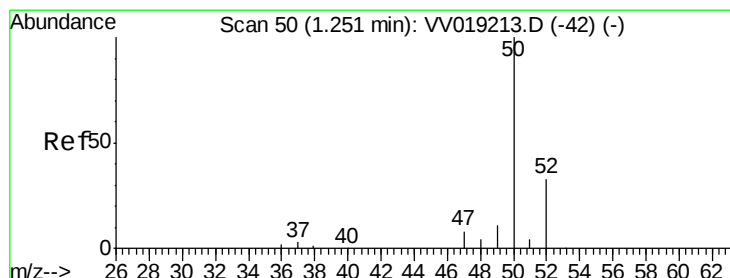
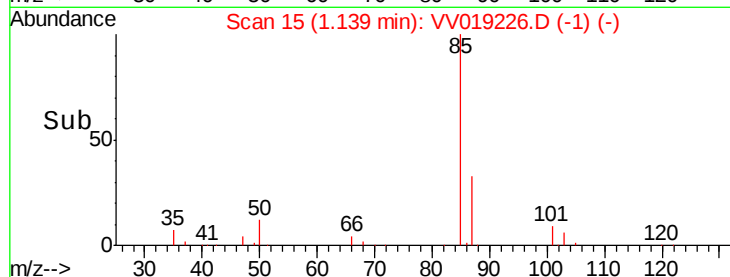
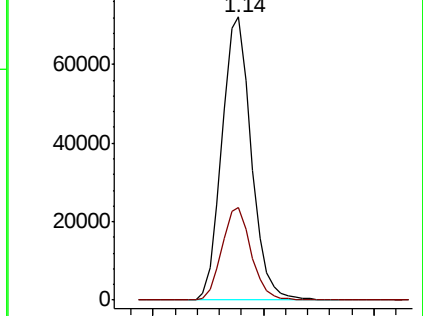
85 100

87 32.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV019213.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019213.D (-8) (-)



#3

Chloromethane

Concen: 57.800 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019226.D

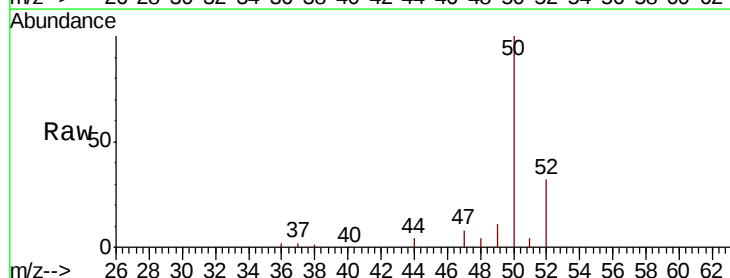
Acq: 03 Nov 2020 03:15

Tgt Ion: 50 Resp: 80784

Ion Ratio Lower Upper

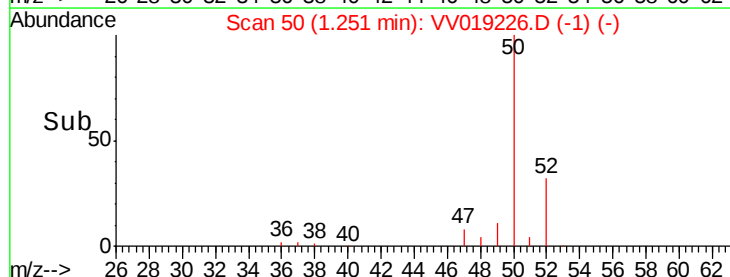
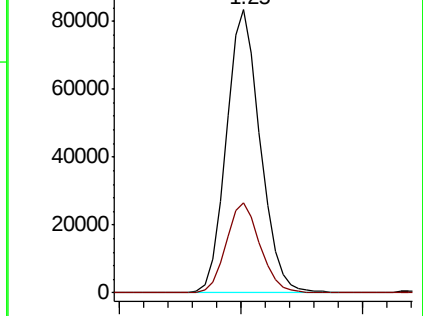
50 100

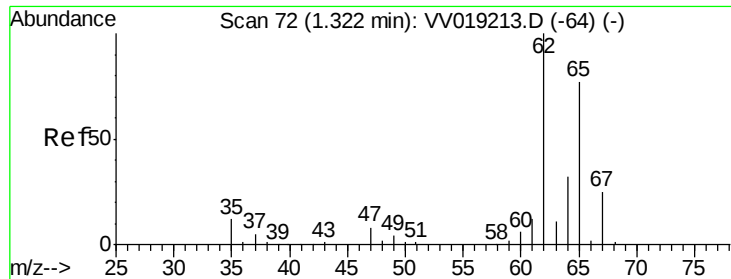
52 32.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019213.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019213.D (-42) (-)





#5

Vinyl chloride

Concen: 54.581 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

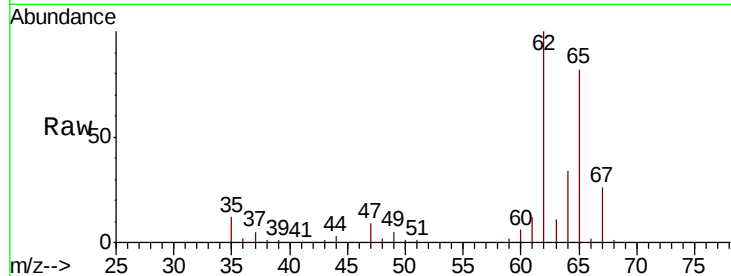
VSTD050310

Tot Ion: 62 Resp: 79406

Ion Ratio Lower Upper

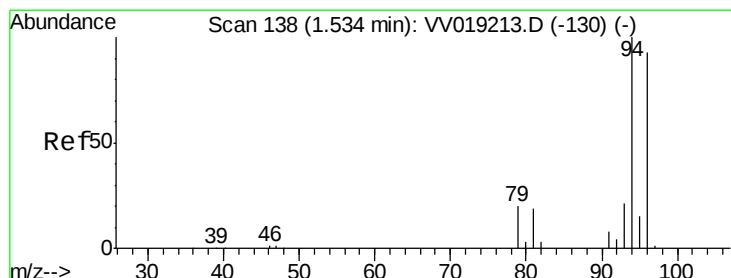
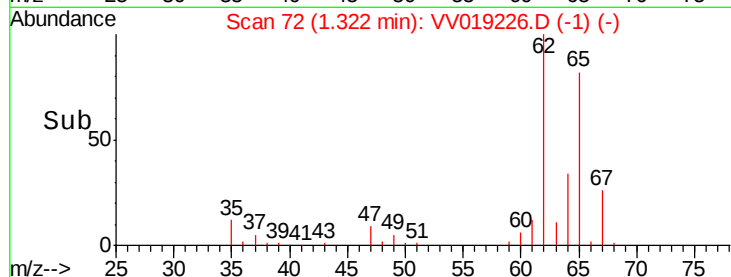
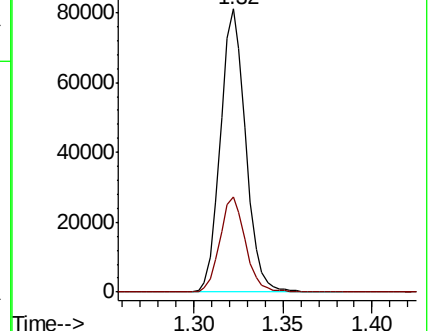
62 100

64 33.7 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 61.647 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019226.D

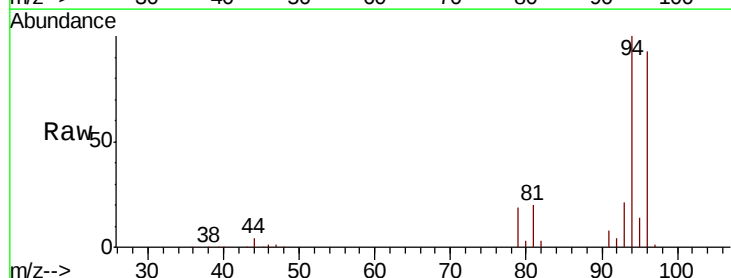
Acq: 03 Nov 2020 03:15

Tgt Ion: 94 Resp: 60275

Ion Ratio Lower Upper

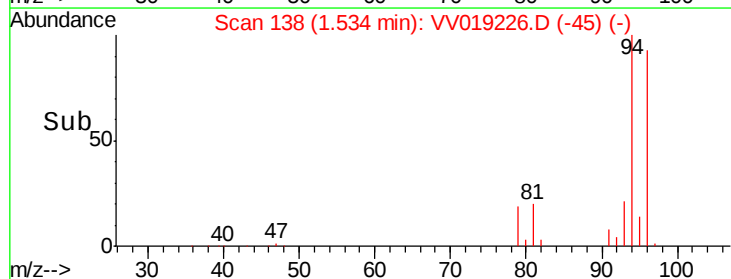
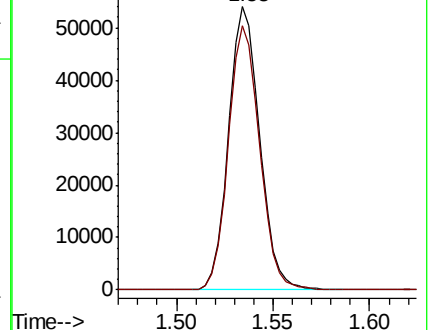
94 100

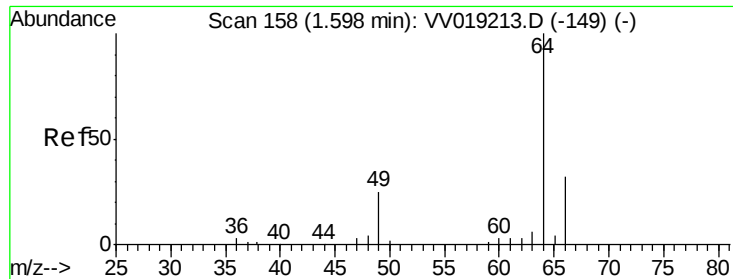
96 93.4 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

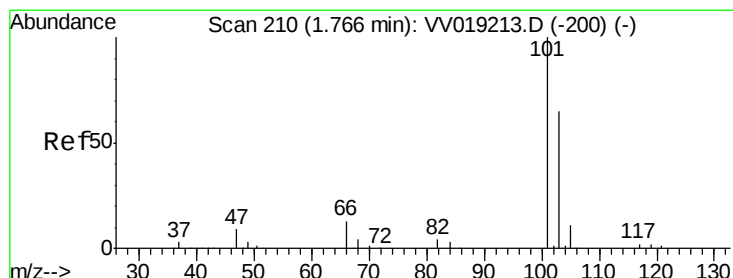
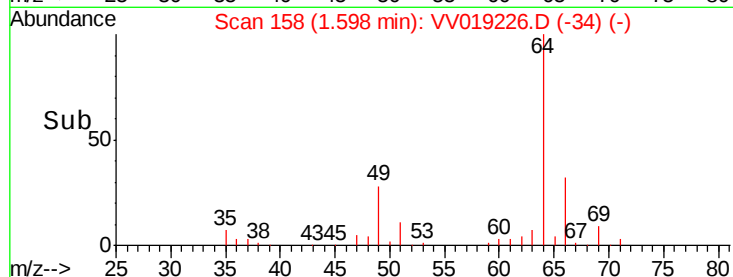
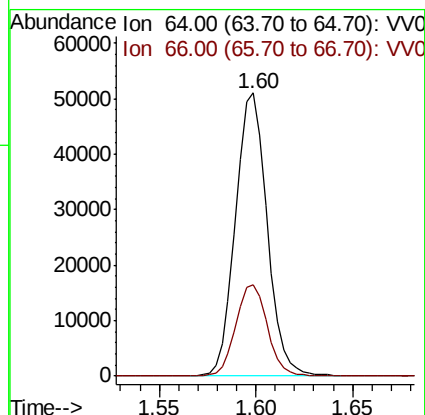
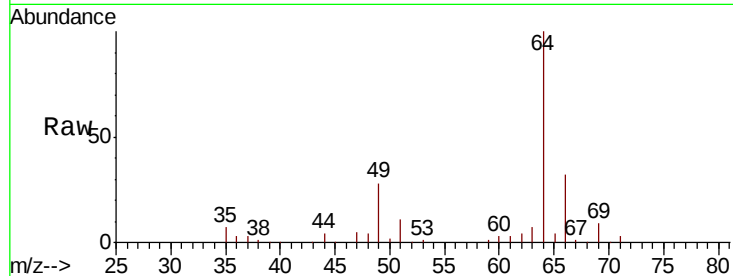




#8  
Chloroethane  
Concen: 61.094 ug/L  
RT: 1.60 min Scan# 158  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

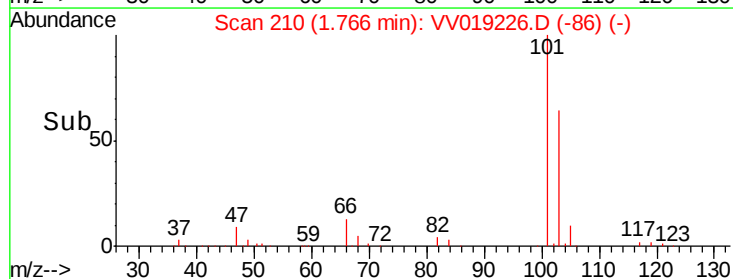
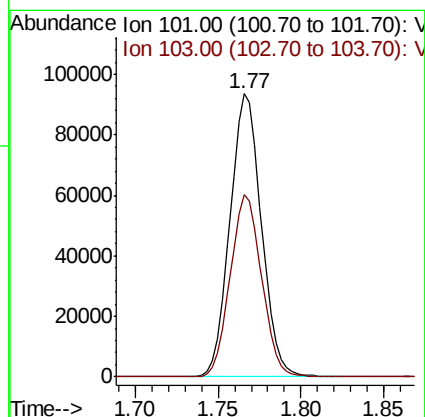
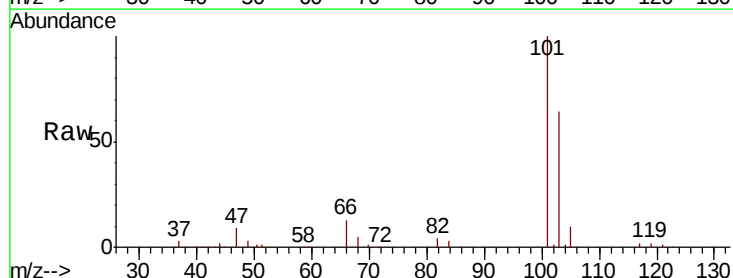
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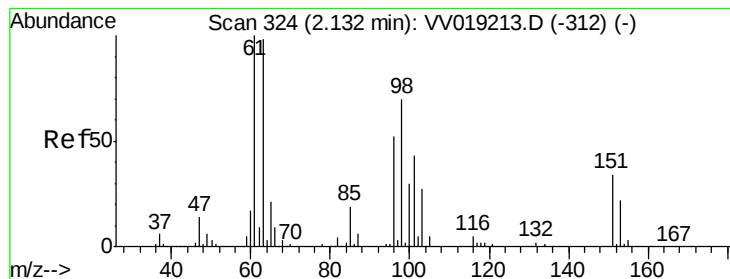
Tot Ion: 64 Resp: 58130  
Ion Ratio Lower Upper  
64 100  
66 32.4 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 51.301 ug/L  
RT: 1.77 min Scan# 210  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Tgt Ion: 101 Resp: 123556  
Ion Ratio Lower Upper  
101 100  
103 64.2 52.3 78.5





#10

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

Concen: 49.654 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050310

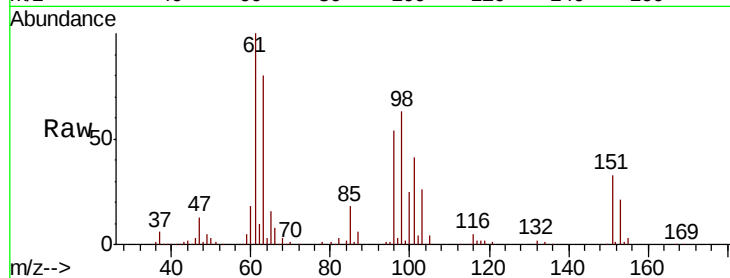
Tot Ion:101 Resp: 56823

Ion Ratio Lower Upper

101 100

85 44.8 35.6 53.4

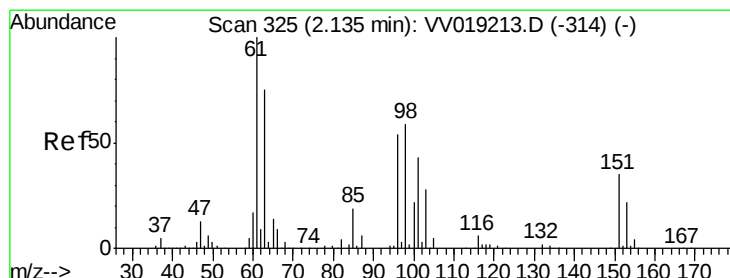
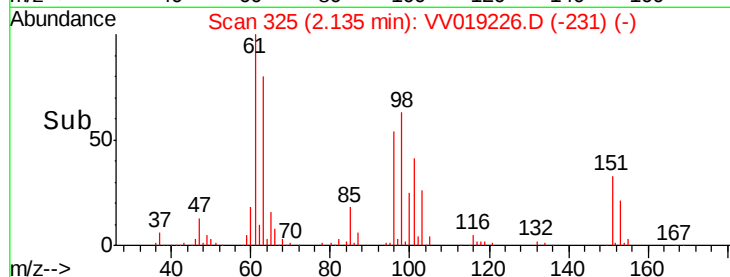
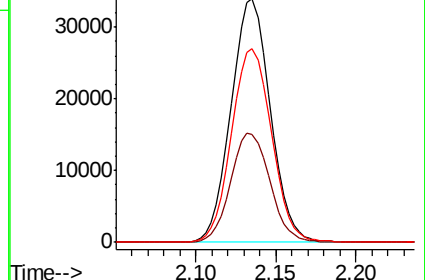
151 81.2 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): VV019226.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV019226.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV019226.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 54.459 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

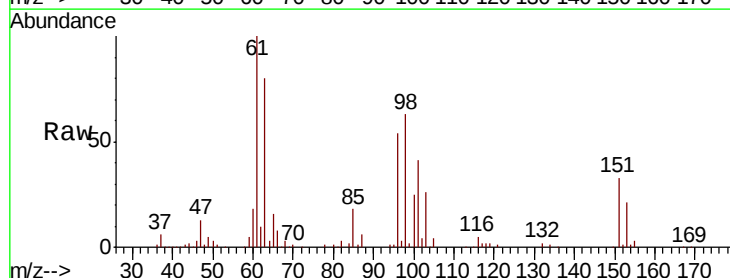
Tgt Ion: 96 Resp: 64412

Ion Ratio Lower Upper

96 100

61 185.5 133.6 248.0

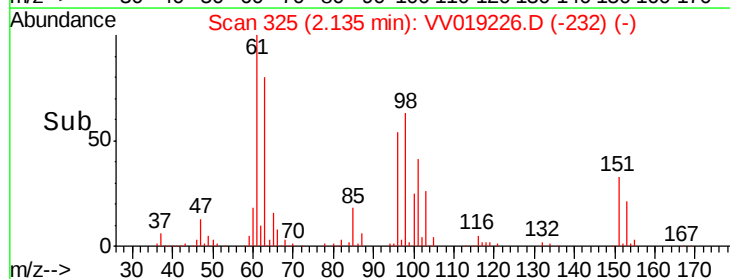
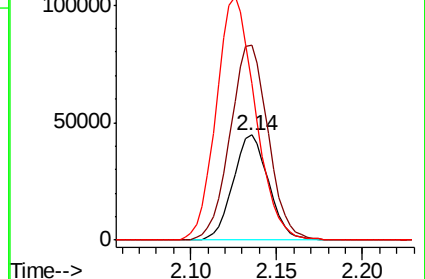
63 149.1 103.0 191.2

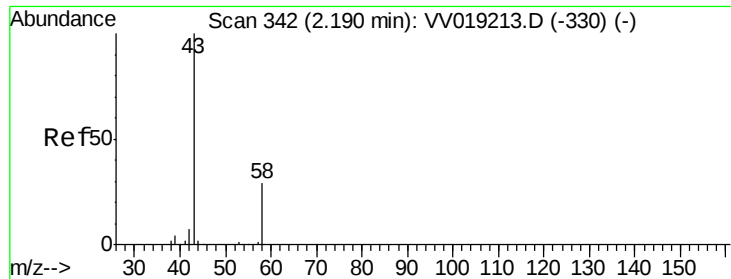


Abundance Ion 96.00 (95.70 to 96.70): VV019226.D (-232) (-)

Ion 61.00 (60.70 to 61.70): VV019226.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV019226.D (-232) (-)





#13

Acetone

Concen: 117.465 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

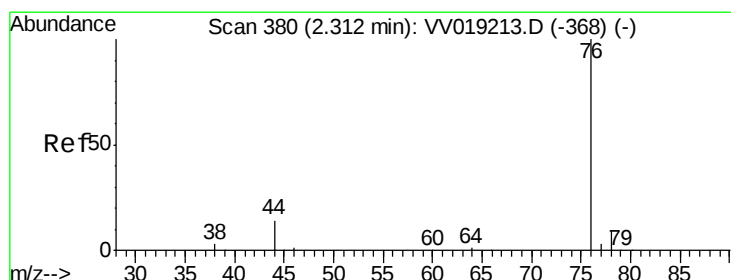
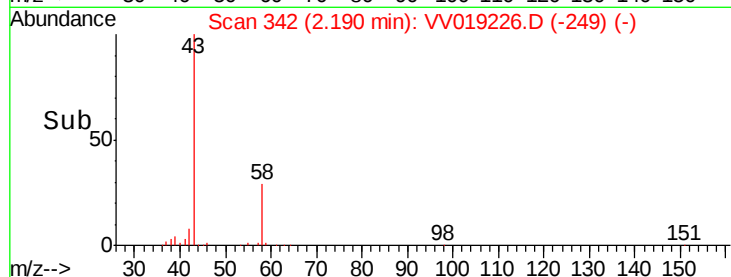
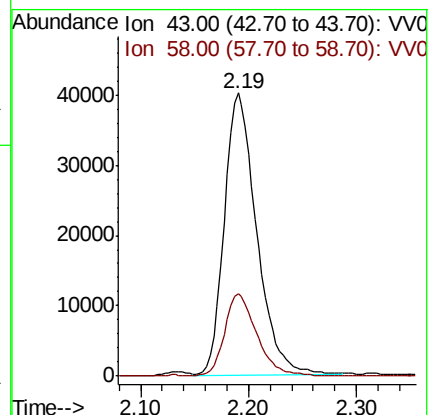
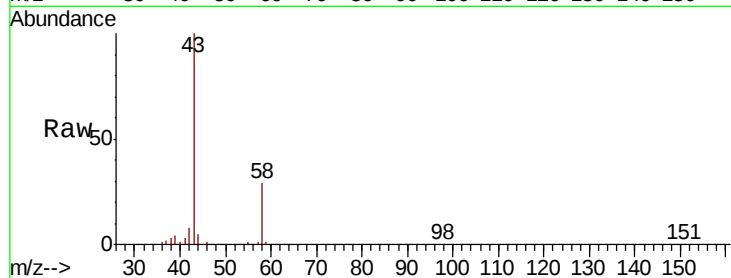
VSTD050310

Tot Ion: 43 Resp: 83284

Ion Ratio Lower Upper

43 100

58 29.4 0.0 57.8



#14

Carbon disulfide

Concen: 52.200 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019226.D

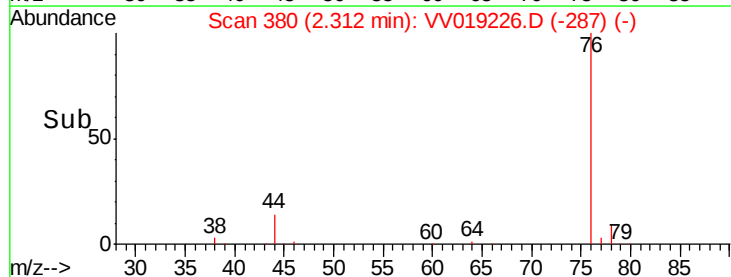
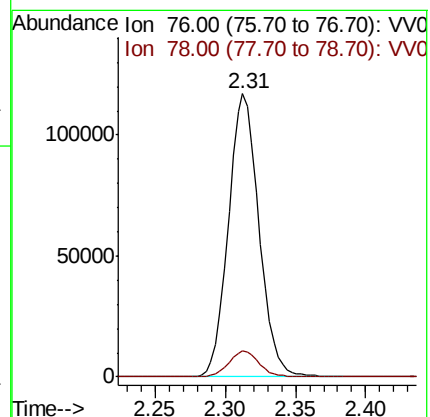
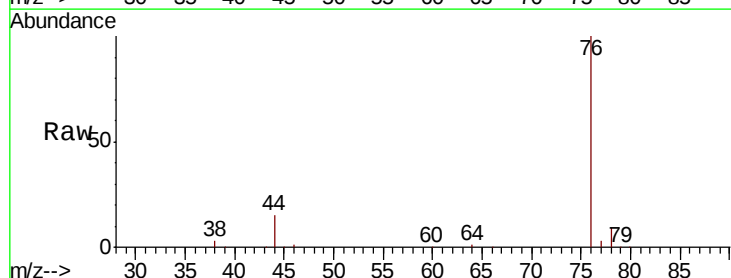
Acq: 03 Nov 2020 03:15

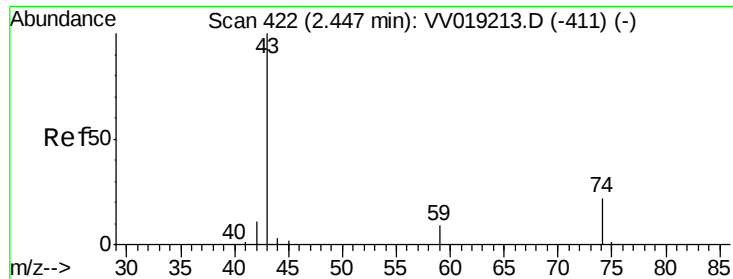
Tgt Ion: 76 Resp: 177290

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

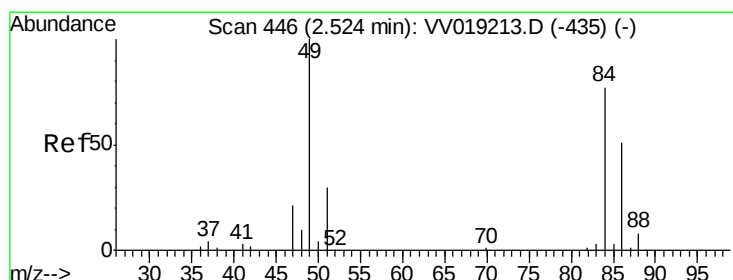
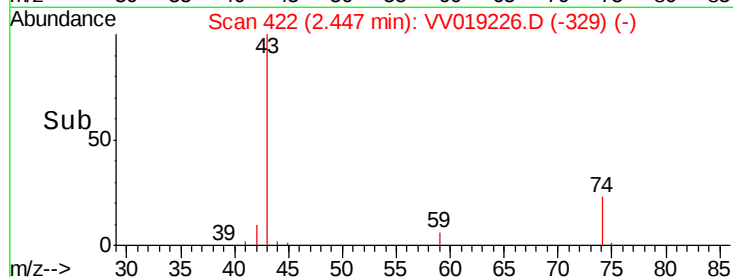
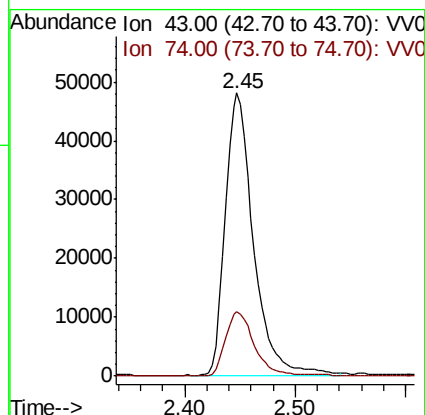
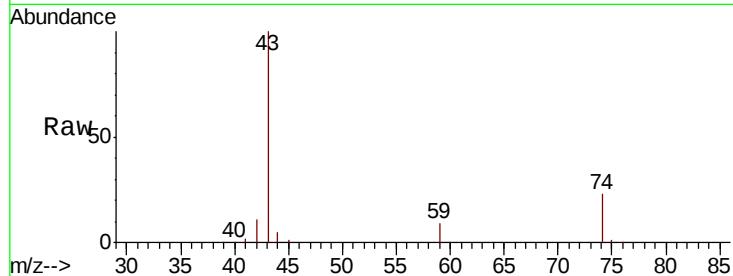




#15  
Methvl Acetate  
Concen: 61.713 ug/L  
RT: 2.45 min Scan# 422  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

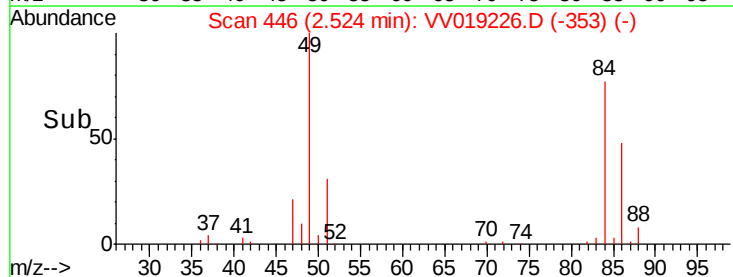
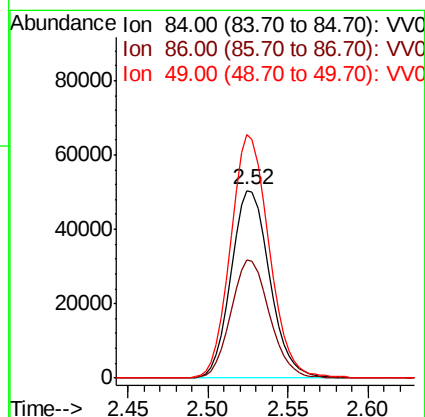
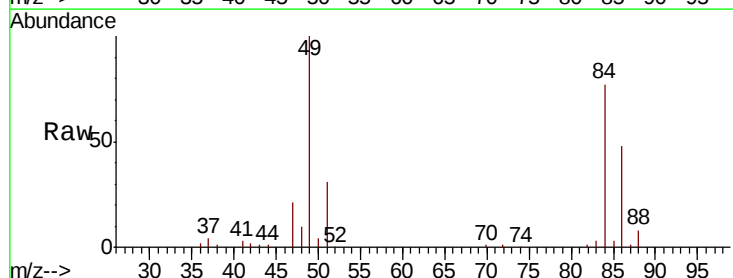
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD050310

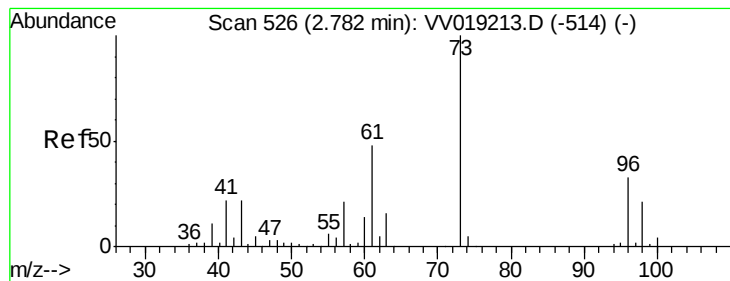
Tot Ion: 43 Resp: 84780  
Ion Ratio Lower Upper  
43 100  
74 23.2 18.8 28.2



#16  
Methylene chloride  
Concen: 59.209 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Tgt Ion: 84 Resp: 83249  
Ion Ratio Lower Upper  
84 100  
86 62.8 45.6 84.8  
49 129.6 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 53.882 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050310

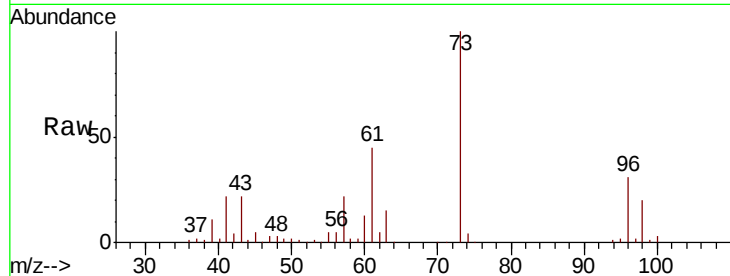
Tot Ion: 96 Resp: 69137

Ion Ratio Lower Upper

96 100

61 142.4 100.7 187.1

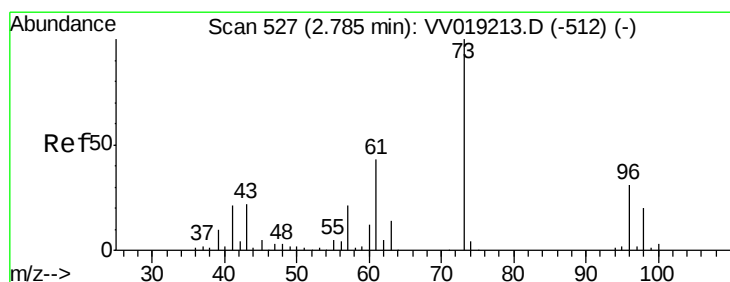
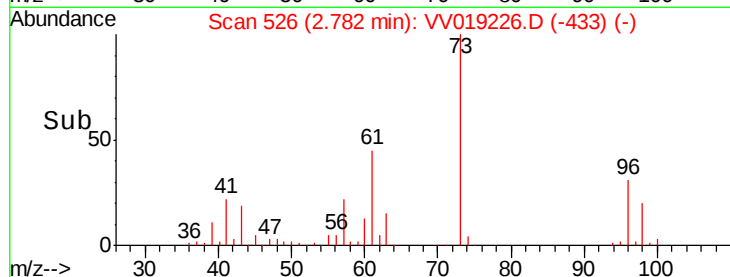
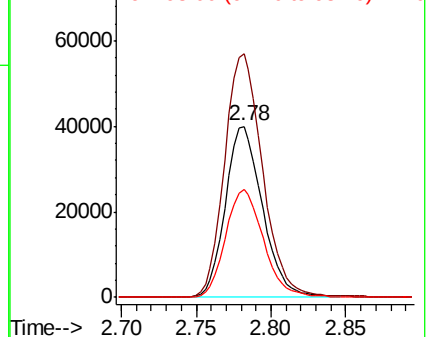
98 63.1 42.9 79.7



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: 60.537 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

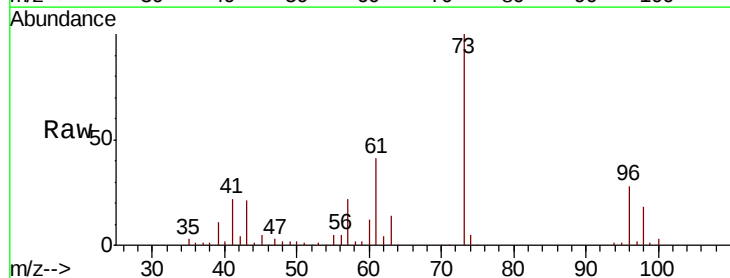
Tgt Ion: 73 Resp: 273041

Ion Ratio Lower Upper

73 100

43 22.0 17.9 26.9

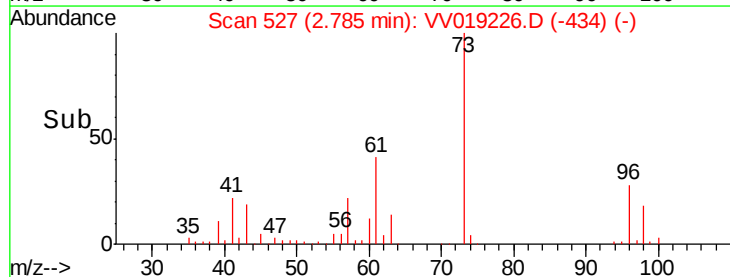
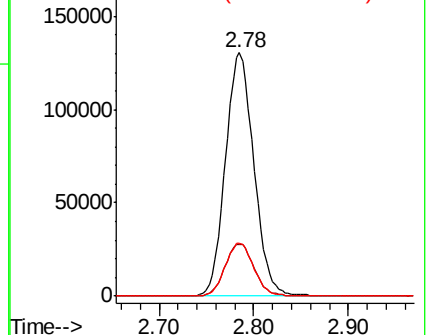
57 21.8 17.1 25.7

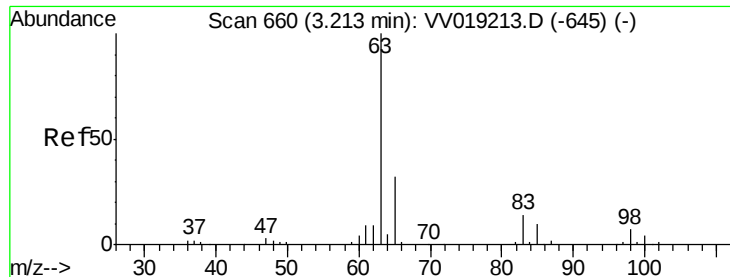


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

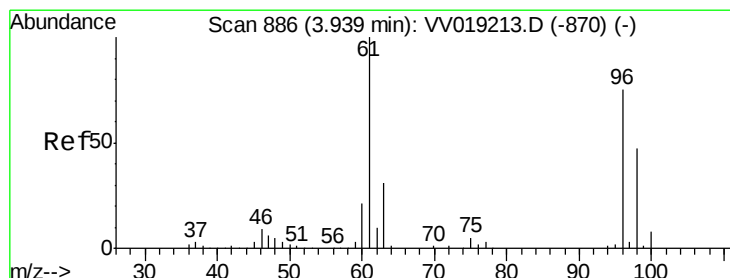
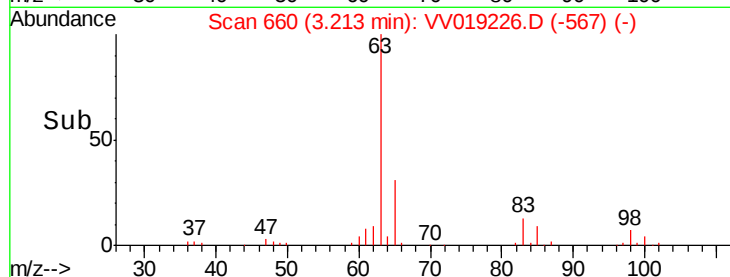
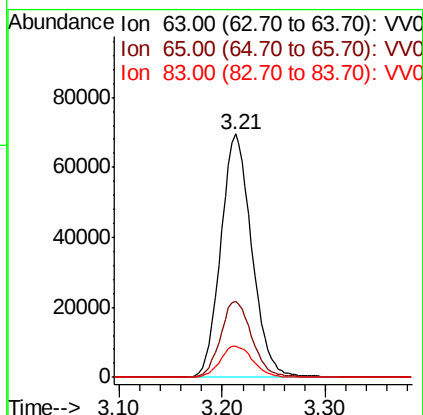
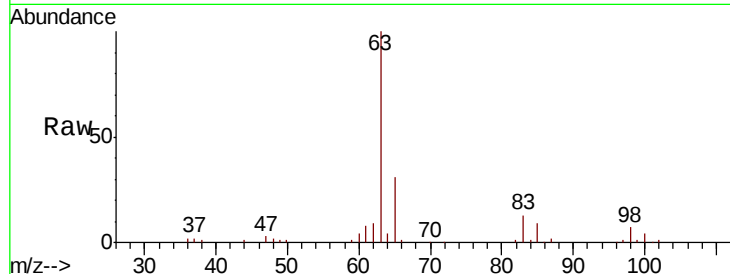




#19  
 1,1-Dichloroethane  
 Concen: 57.924 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

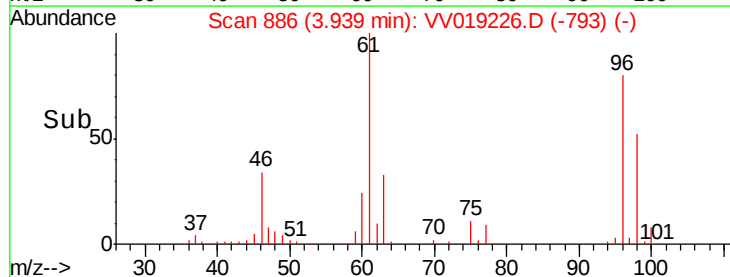
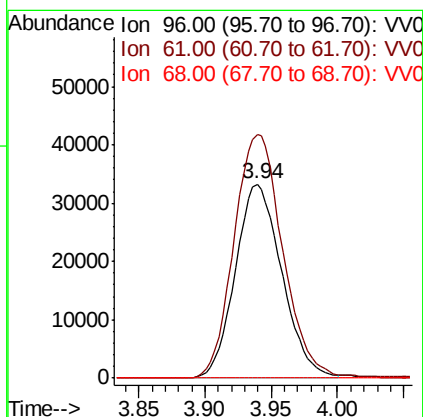
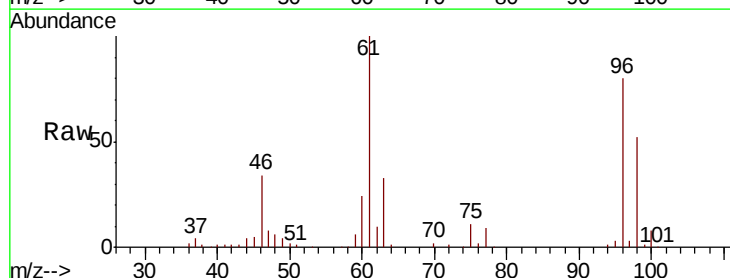
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

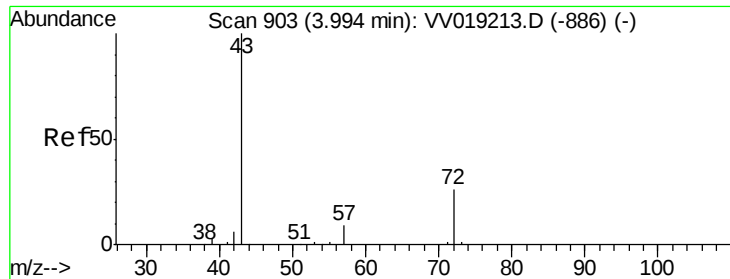
Tot Ion: 63 Resp: 145622  
 Ion Ratio Lower Upper  
 63 100  
 65 31.0 21.8 40.6  
 83 12.8 9.5 17.7



#20  
 cis-1,2-Dichloroethene  
 Concen: 57.255 ug/L  
 RT: 3.94 min Scan# 886  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Tgt Ion: 96 Resp: 81187  
 Ion Ratio Lower Upper  
 96 100  
 61 125.4 95.6 177.6  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 124.274 ug/L

RT: 3.99 min Scan# 902

Delta R.T. -0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

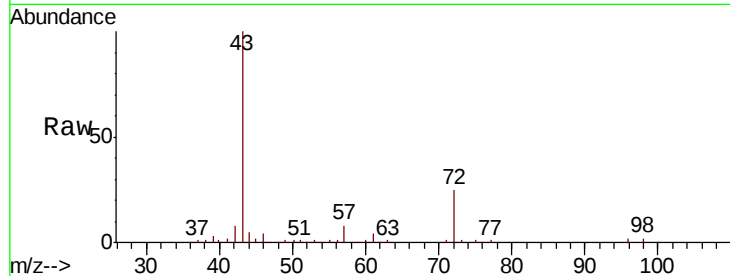
VSTD050310

Tot Ion: 43 Resp: 111846

Ion Ratio Lower Upper

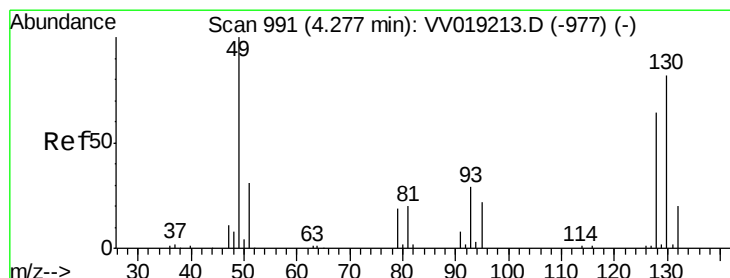
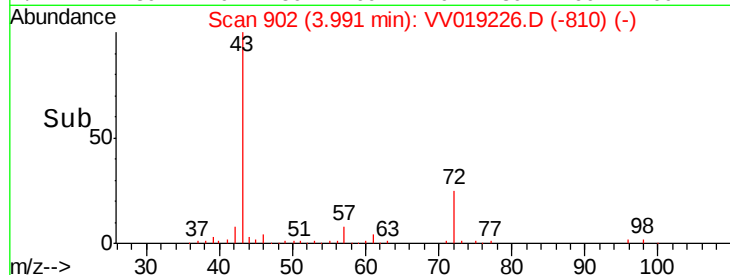
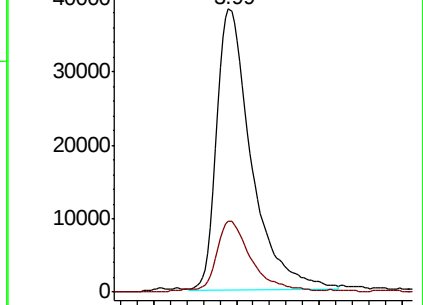
43 100

72 25.3 12.7 38.0



Abundance Ion 43.00 (42.70 to 43.70): VV019226.D (-810) (-)

Ion 72.00 (71.70 to 72.70): VV019226.D (-810) (-)



#23

Bromochloromethane

Concen: 56.989 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Tgt Ion:128 Resp: 44494

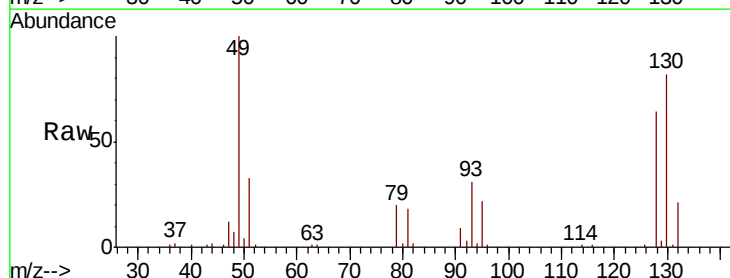
Ion Ratio Lower Upper

128 100

49 156.6 108.8 202.2

130 127.7 88.5 164.3

51 51.7 37.8 56.6

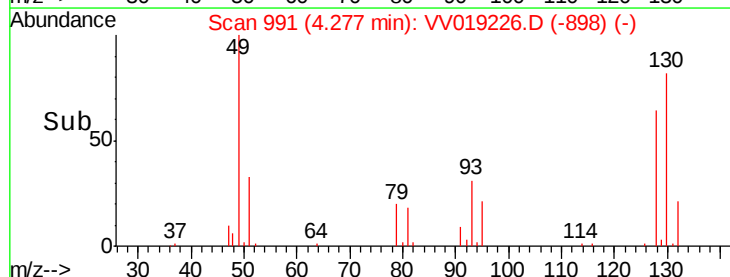
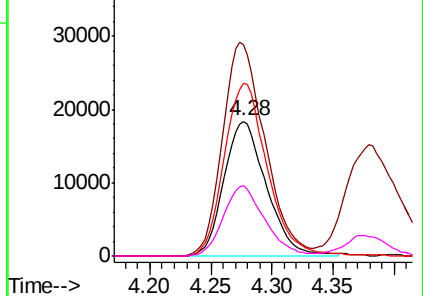


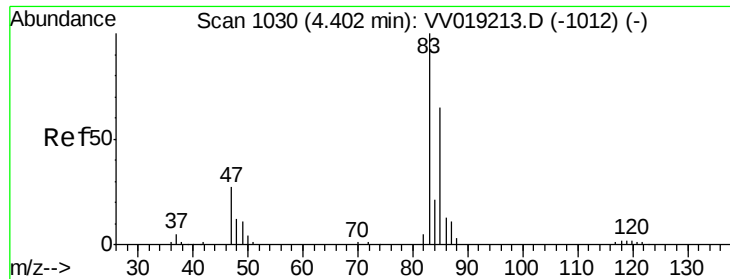
Abundance Ion 128.00 (127.70 to 128.70): VV019226.D (-898) (-)

Ion 49.00 (48.70 to 49.70): VV019226.D (-898) (-)

Ion 130.00 (129.70 to 130.70): VV019226.D (-898) (-)

Ion 51.00 (50.70 to 51.70): VV019226.D (-898) (-)

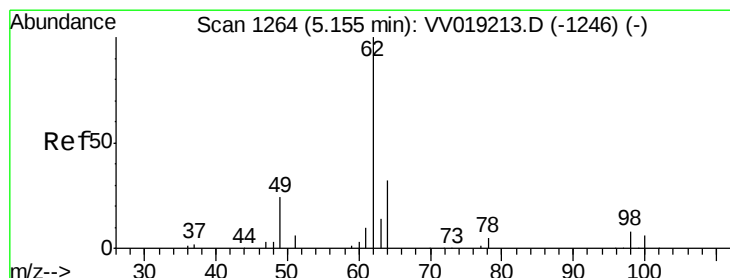
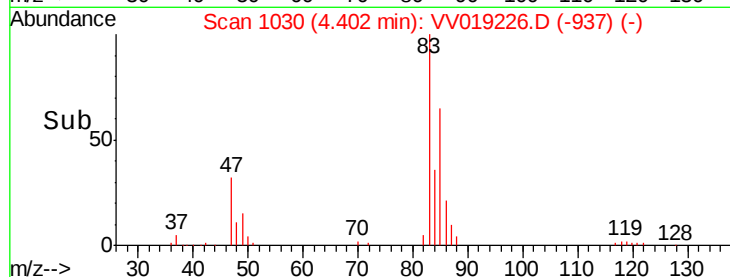
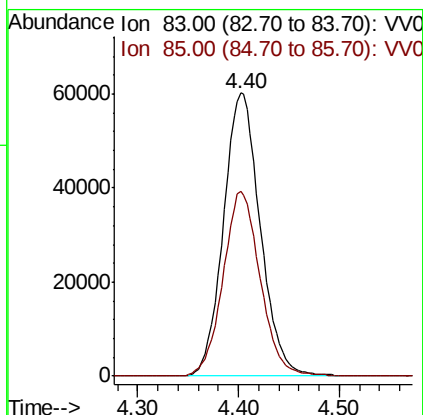
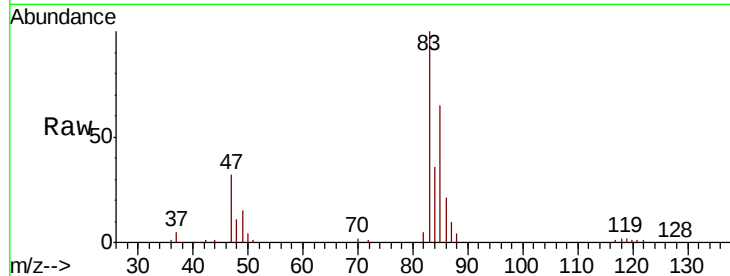




#25  
Chloroform  
Concen: 56.715 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

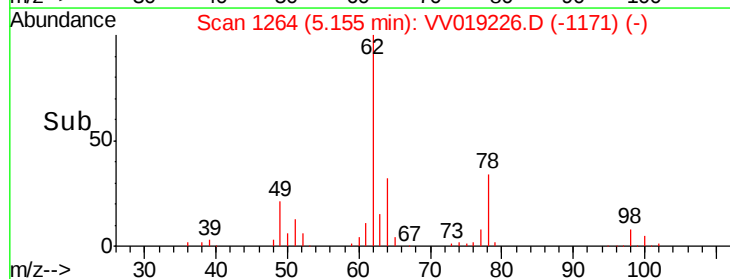
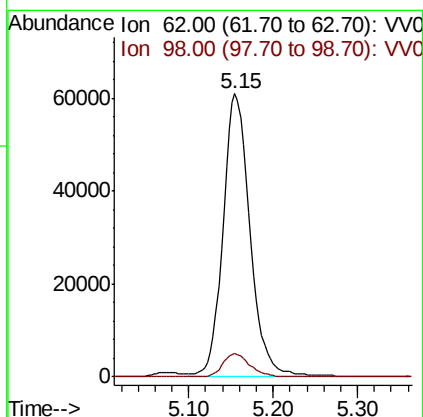
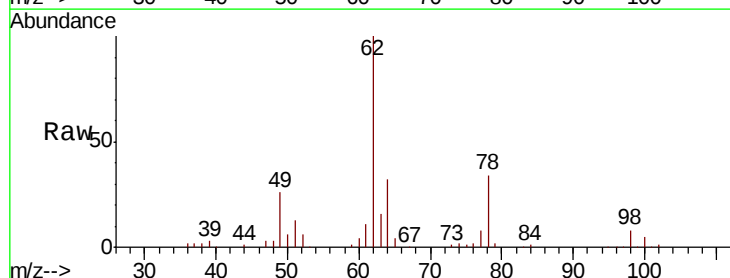
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050310

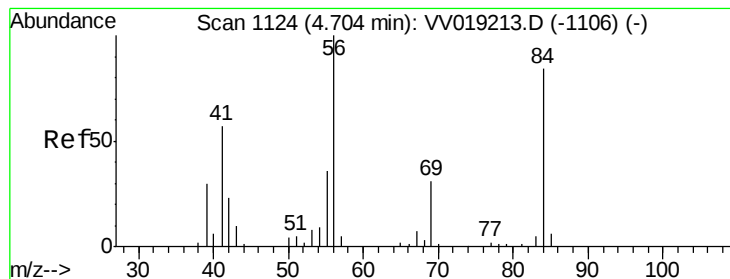
Tot Ion: 83 Resp: 152864  
Ion Ratio Lower Upper  
83 100  
85 65.4 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 59.155 ug/L  
RT: 5.15 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Tgt Ion: 62 Resp: 135530  
Ion Ratio Lower Upper  
62 100  
98 8.1 6.8 10.2





#29

Cyclohexane

Concen: 48.260 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050310

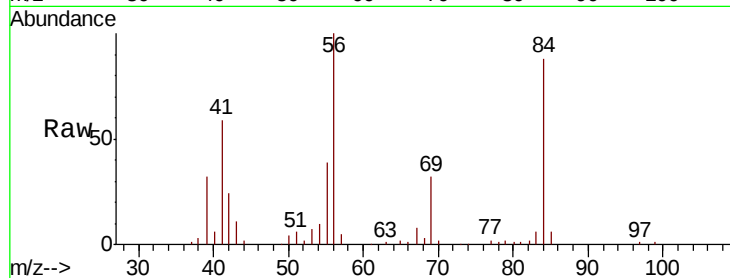
Tot Ion: 56 Resp: 85953

Ion Ratio Lower Upper

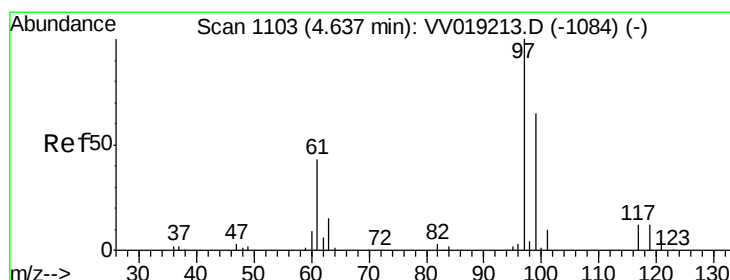
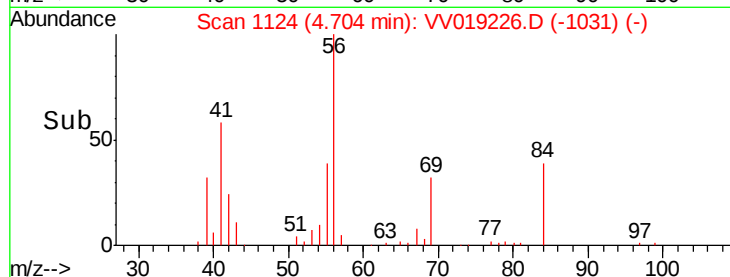
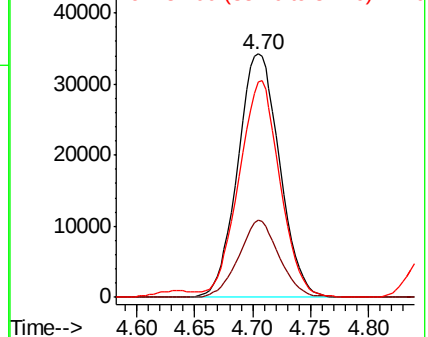
56 100

69 30.6 24.6 36.8

84 86.6 70.5 105.7



Abundance Ion 56.00 (55.70 to 56.70): VV0  
Ion 69.00 (68.70 to 69.70): VV0  
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 53.489 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

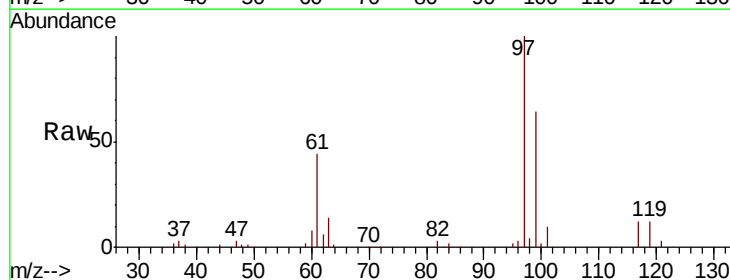
Tgt Ion: 97 Resp: 129106

Ion Ratio Lower Upper

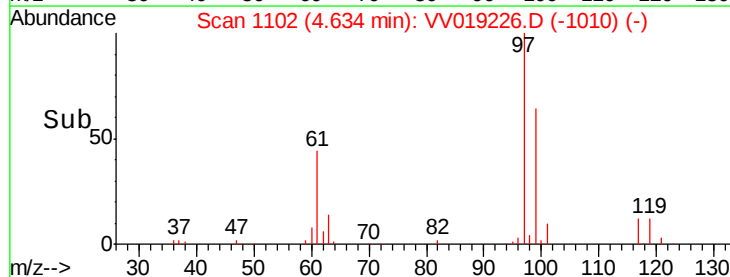
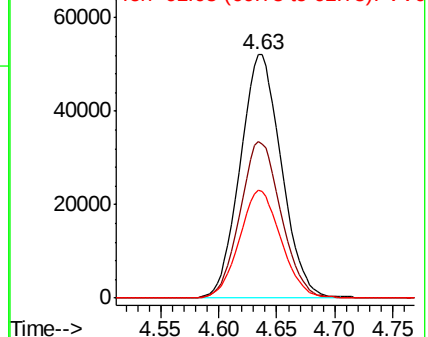
97 100

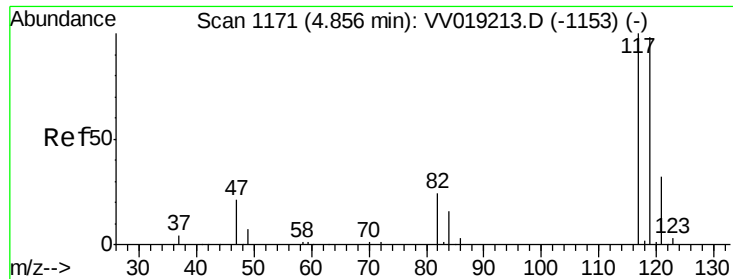
99 64.0 52.0 78.0

61 44.6 35.3 52.9



Abundance Ion 97.00 (96.70 to 97.70): VV0  
Ion 99.00 (98.70 to 99.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0

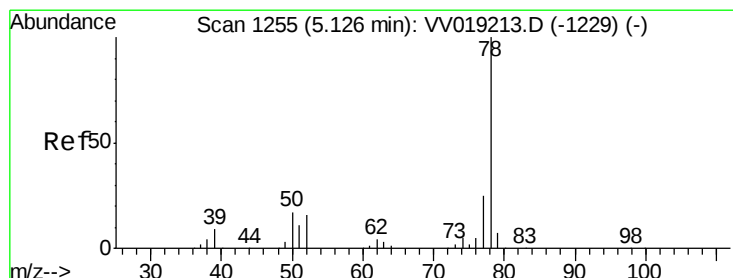
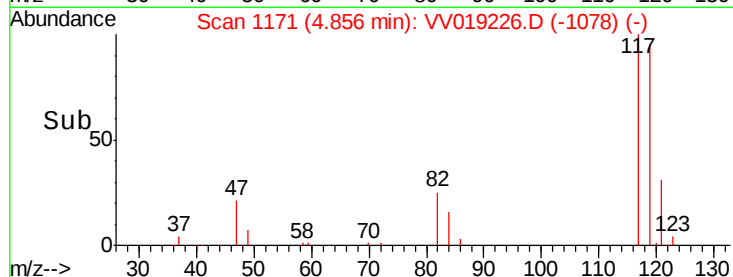
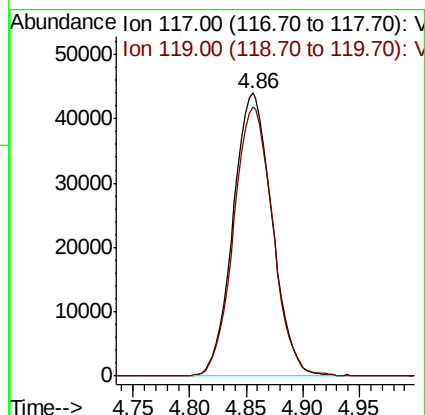
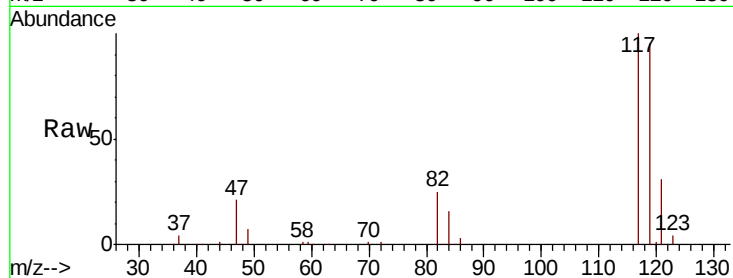




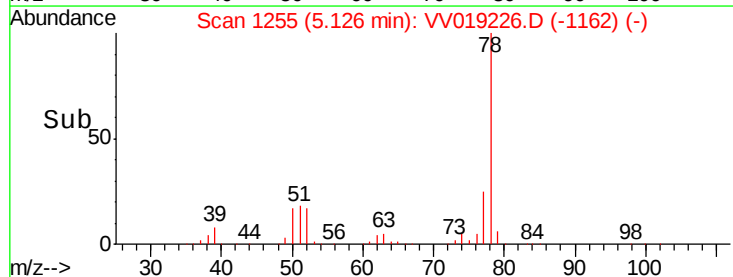
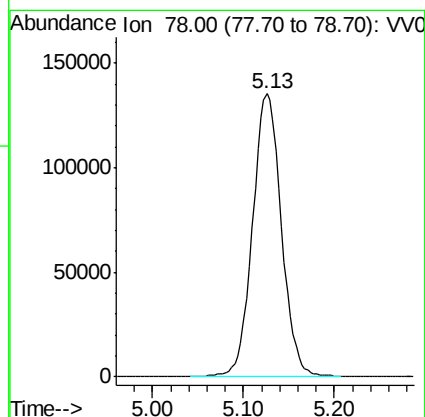
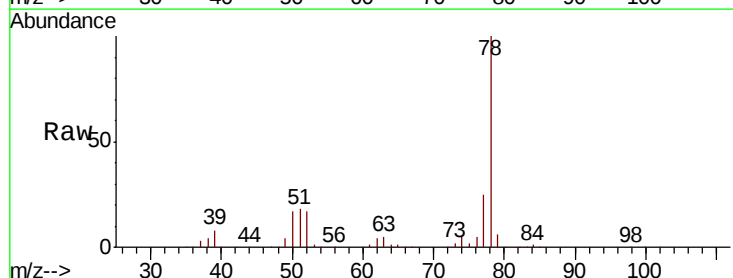
#31  
Carbon tetrachloride  
Concen: 50.664 ug/L  
RT: 4.86 min Scan# 1171  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

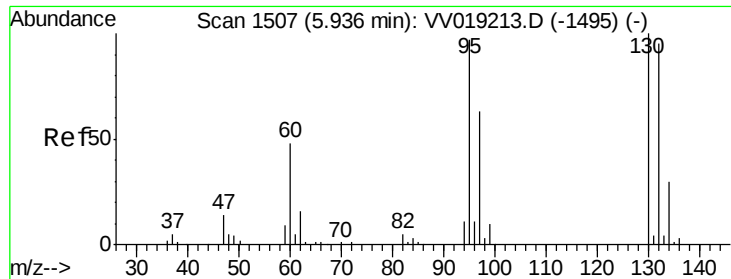
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050310

Tot Ion:117 Resp: 105589  
Ion Ratio Lower Upper  
117 100  
119 95.6 77.8 116.6



#33  
Benzene  
Concen: 57.666 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15  
Tgt Ion: 78 Resp: 298257

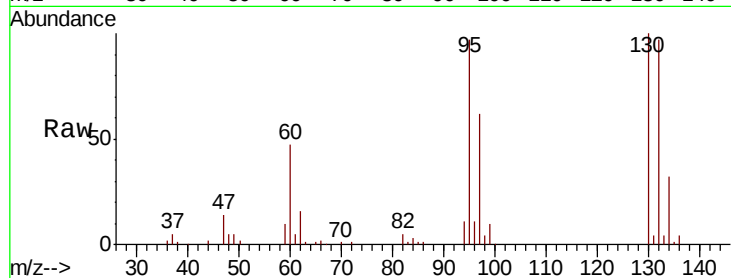




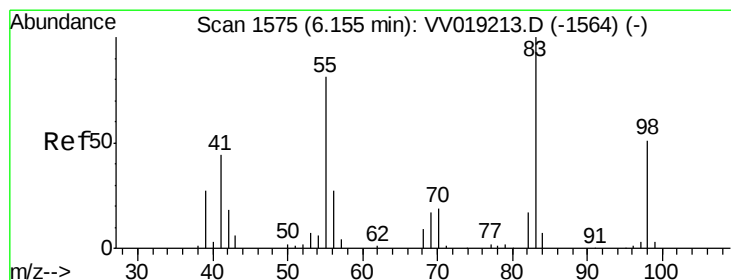
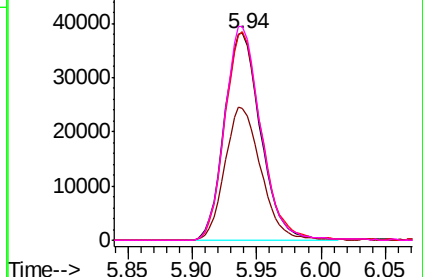
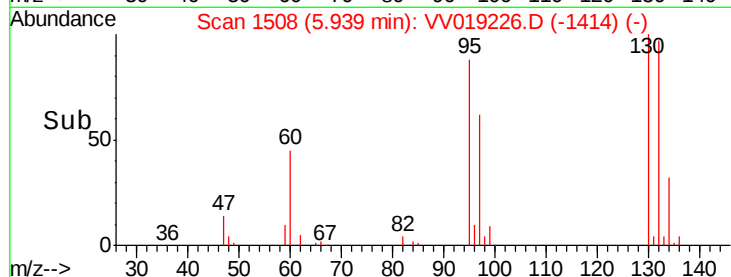
#34  
 Trichloroethene  
 Concen: 53.275 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

Tot Ion: 95 Resp: 74882  
 Ion Ratio Lower Upper  
 95 100  
 97 63.7 45.4 84.4  
 132 100.4 68.5 127.3  
 130 103.1 72.0 133.6

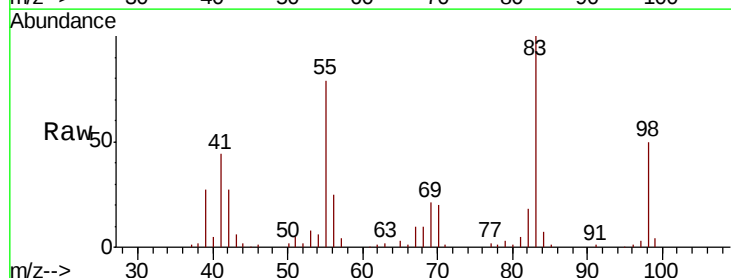


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0

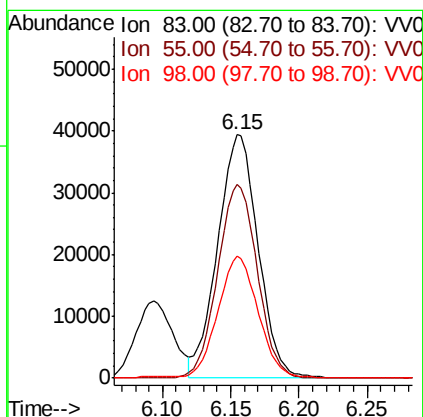
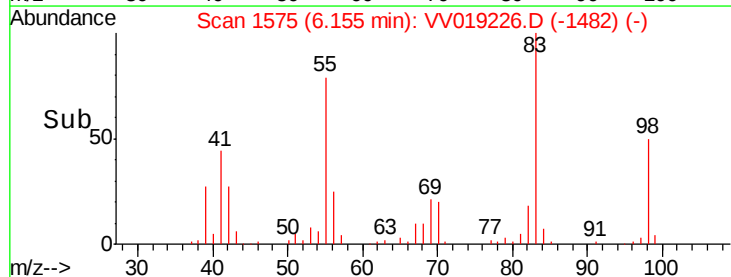


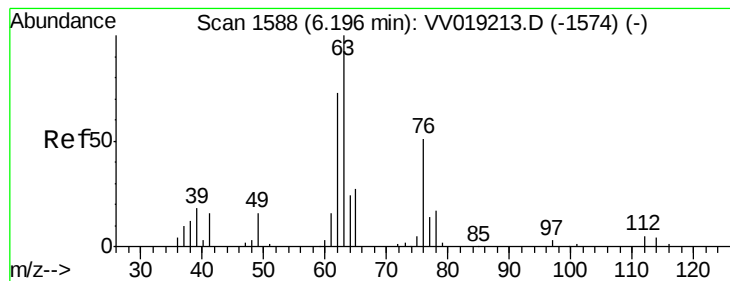
#35  
 Methylcyclohexane  
 Concen: 47.749 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Tgt Ion: 83 Resp: 81235  
 Ion Ratio Lower Upper  
 83 100  
 55 77.8 62.8 94.2  
 98 49.9 38.6 58.0



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: 56.961 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

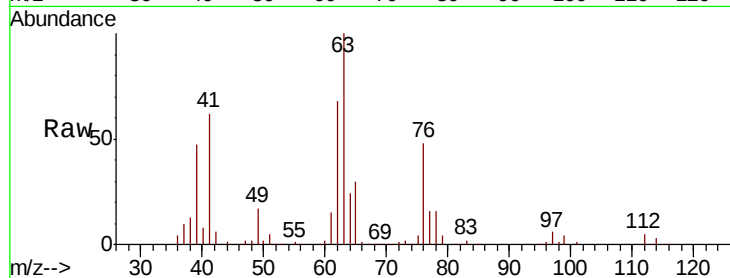
VSTD050310

Tot Ion: 63 Resp: 78626

Ion Ratio Lower Upper

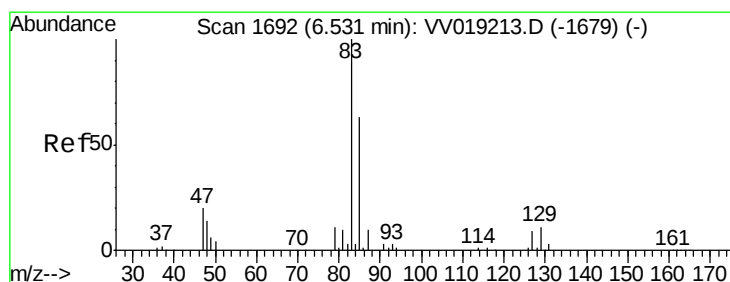
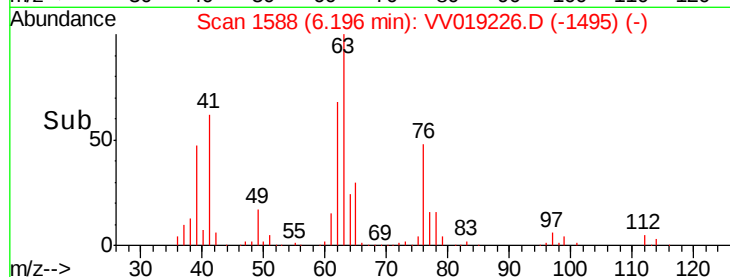
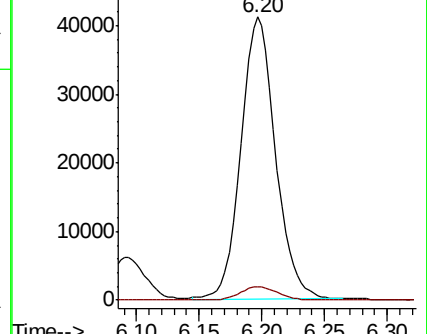
63 100

112 5.0 4.2 6.2



Abundance Ion 63.00 (62.70 to 63.70): VV019213.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV019213.D (-1574) (-)



#38

Bromodichloromethane

Concen: 58.680 ug/L

RT: 6.53 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

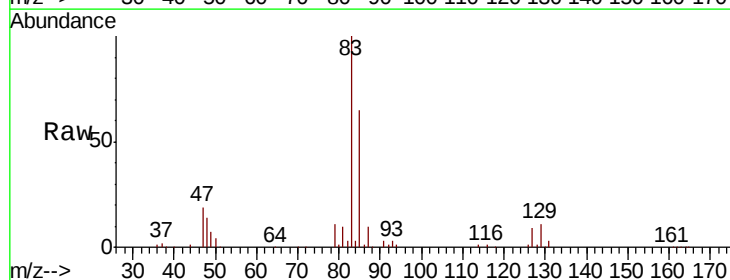
Tgt Ion: 83 Resp: 116568

Ion Ratio Lower Upper

83 100

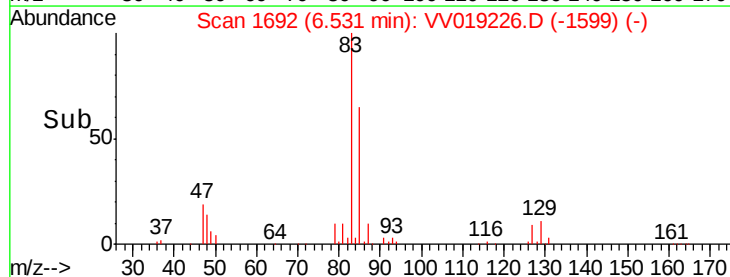
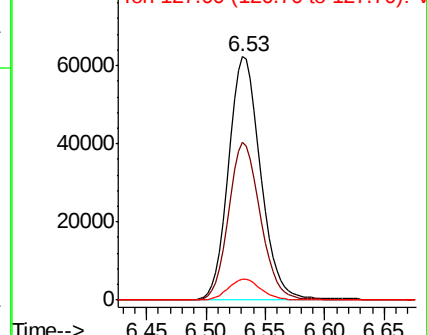
85 64.6 44.0 81.8

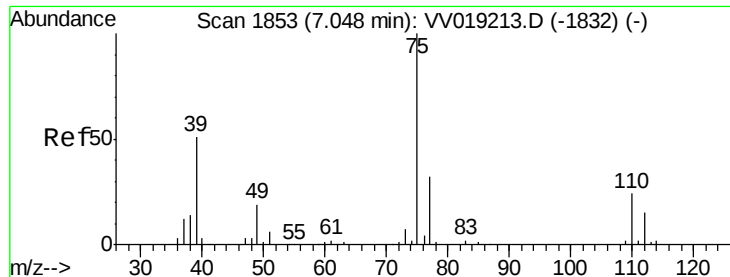
127 8.7 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VV019213.D (-1679) (-)

Ion 85.00 (84.70 to 85.70): VV019213.D (-1679) (-)

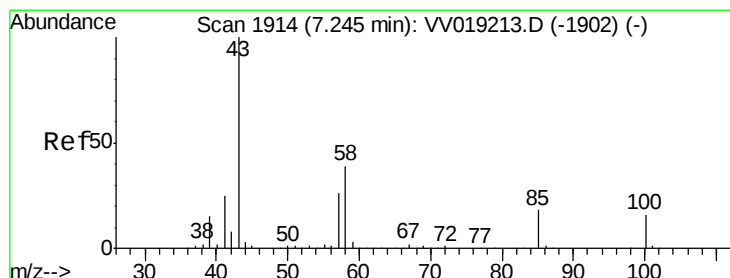
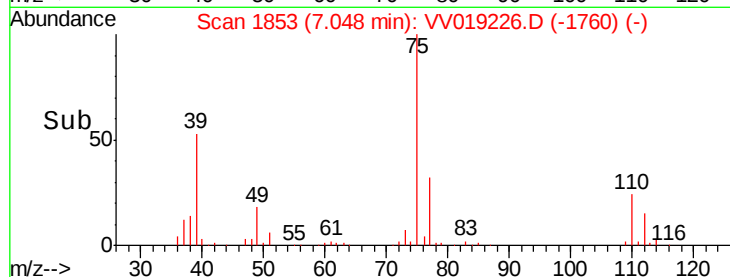
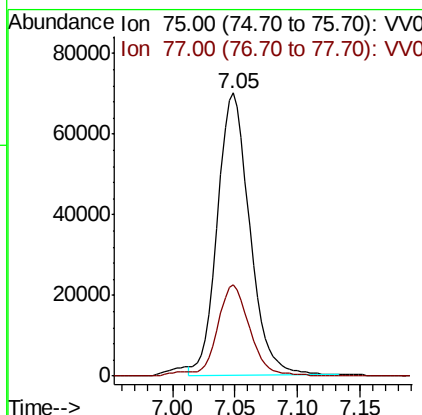
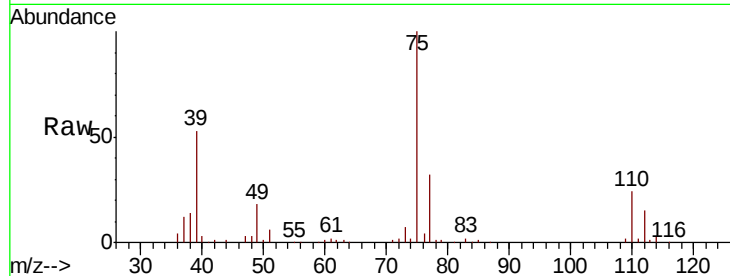




#39  
 cis-1,3-Dichloropropene  
 Concen: 56.820 ug/L  
 RT: 7.05 min Scan# 1853  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

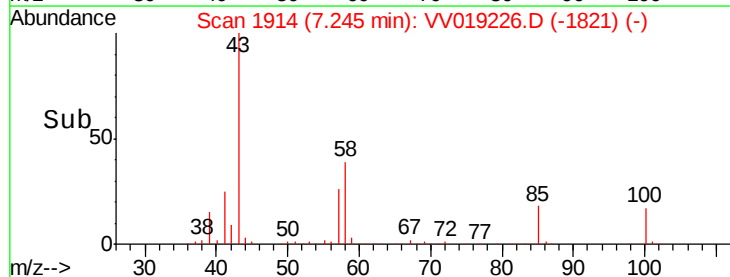
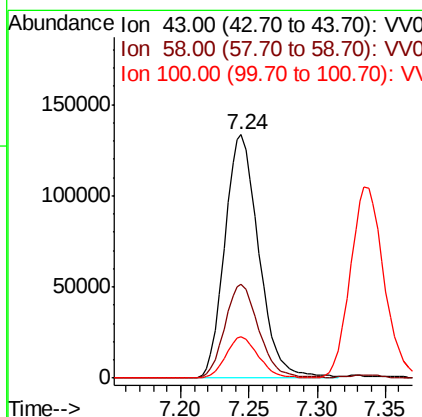
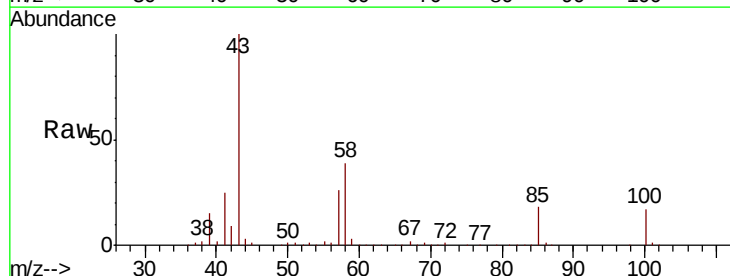
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

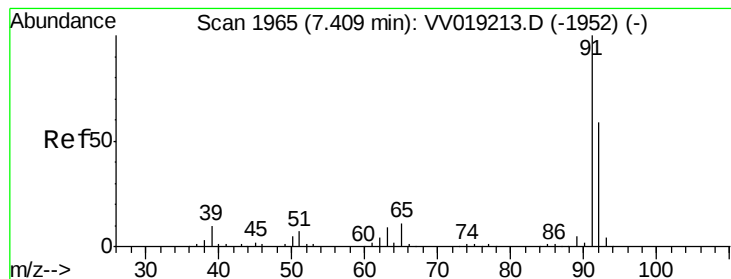
Tot Ion: 75 Resp: 125497  
 Ion Ratio Lower Upper  
 75 100  
 77 32.3 22.2 41.2



#40  
 4-Methyl-2-pentanone  
 Concen: 125.106 ug/L  
 RT: 7.24 min Scan# 1914  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Tgt Ion: 43 Resp: 231991  
 Ion Ratio Lower Upper  
 43 100  
 58 38.6 30.5 45.7  
 100 16.3 12.7 19.1





#42

Toluene

Concen: 54.905 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

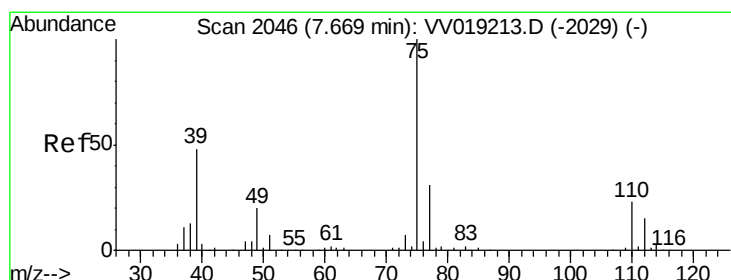
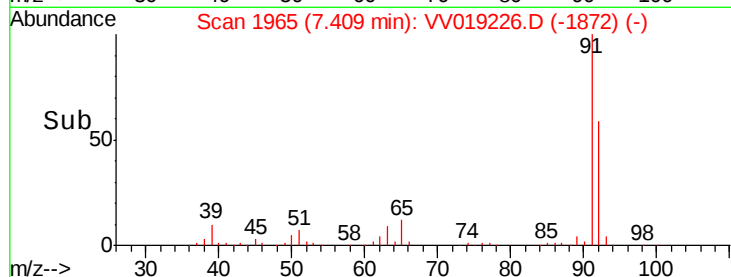
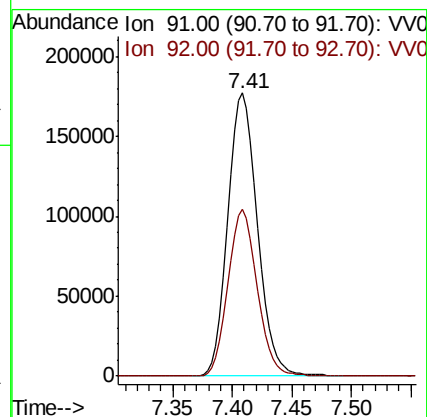
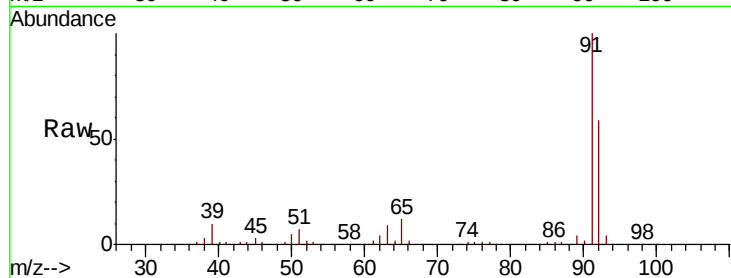
VSTD050310

Tot Ion: 91 Resp: 306953

Ion Ratio Lower Upper

91 100

92 58.8 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 58.409 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019226.D

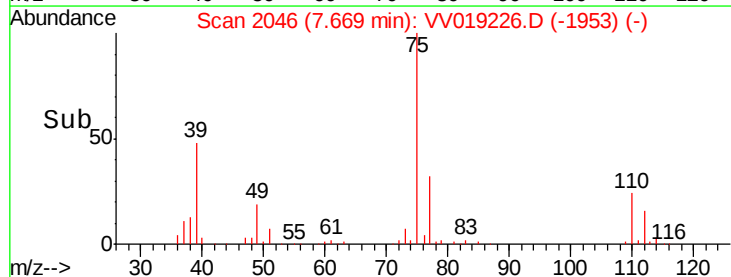
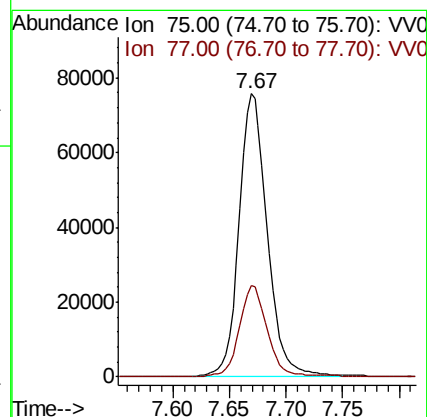
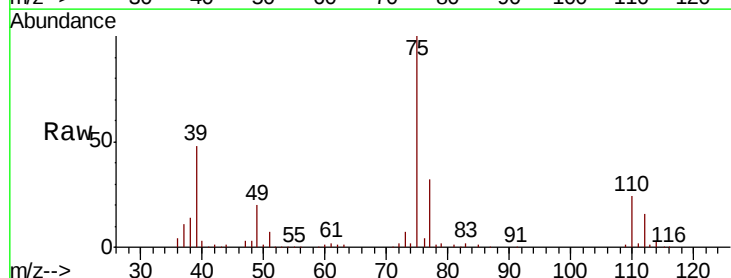
Acq: 03 Nov 2020 03:15

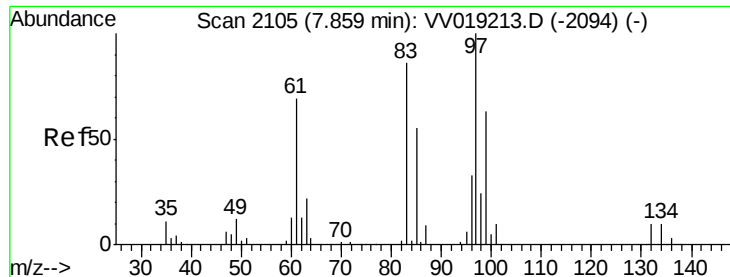
Tgt Ion: 75 Resp: 132198

Ion Ratio Lower Upper

75 100

77 32.1 21.6 40.2

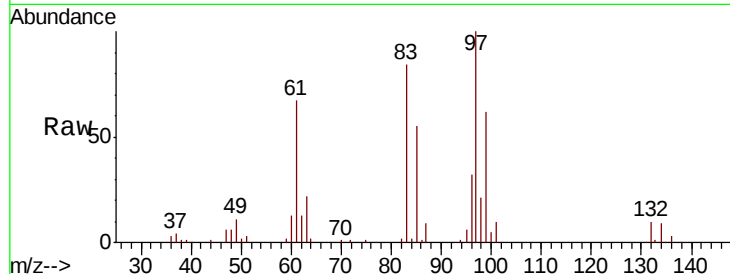




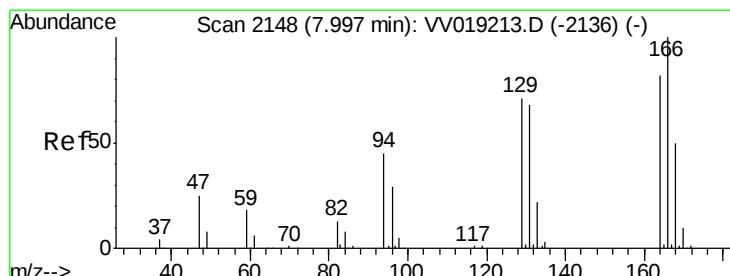
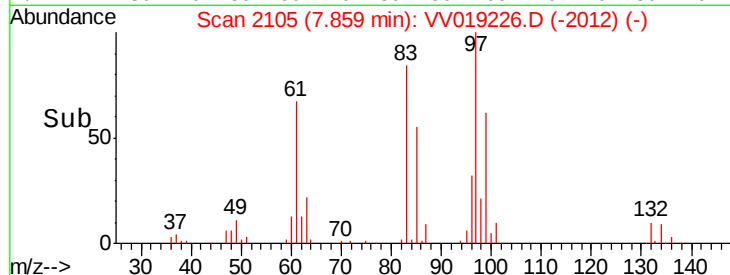
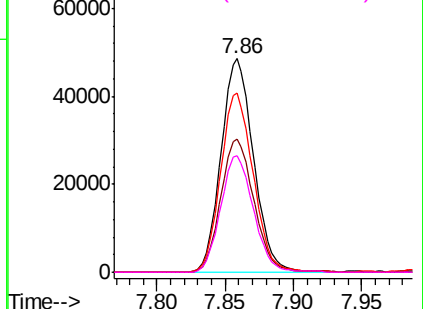
#45  
1,1,2-Trichloroethane  
Concen: 58.920 ug/L  
RT: 7.86 min Scan# 2105  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050310

| Tot Ion: | 97    | Resp: | 80387 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.5  | 45.1  | 83.9  |
| 83       | 83.8  | 57.6  | 107.0 |
| 85       | 54.7  | 37.8  | 70.2  |

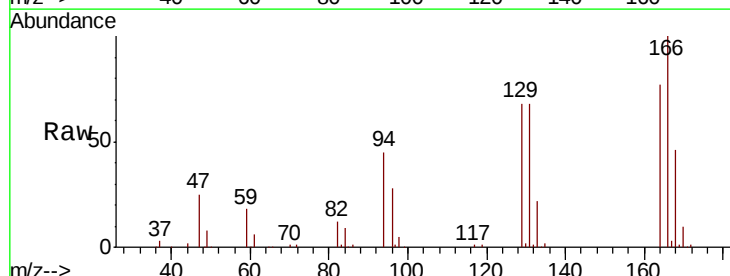


Abundance Ion 97.00 (96.70 to 97.70): VV019226.D (-2094) (-)  
Ion 99.00 (98.70 to 99.70): VV019226.D (-2094) (-)  
Ion 83.00 (82.70 to 83.70): VV019226.D (-2094) (-)  
Ion 85.00 (84.70 to 85.70): VV019226.D (-2094) (-)

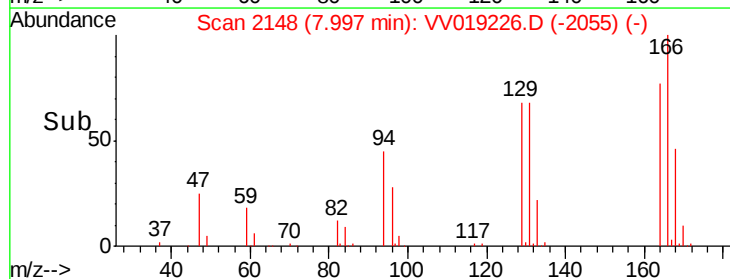
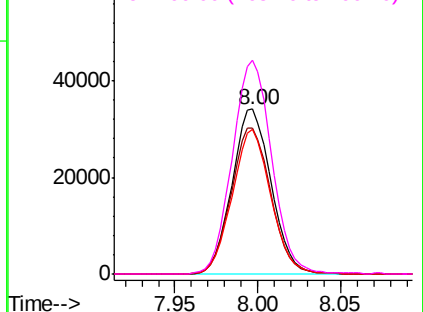


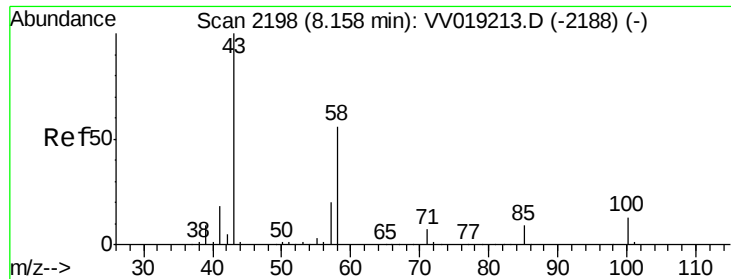
#46  
Tetrachloroethene  
Concen: 48.870 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

| Tgt Ion: | 164   | Resp: | 56047 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 88.7  | 62.6  | 116.3 |
| 131      | 87.8  | 59.0  | 109.6 |
| 166      | 129.6 | 88.0  | 163.4 |



Abundance Ion 164.00 (163.70 to 164.70): VV019226.D (-2136) (-)  
Ion 129.00 (128.70 to 129.70): VV019226.D (-2136) (-)  
Ion 131.00 (130.70 to 131.70): VV019226.D (-2136) (-)  
Ion 166.00 (165.70 to 166.70): VV019226.D (-2136) (-)

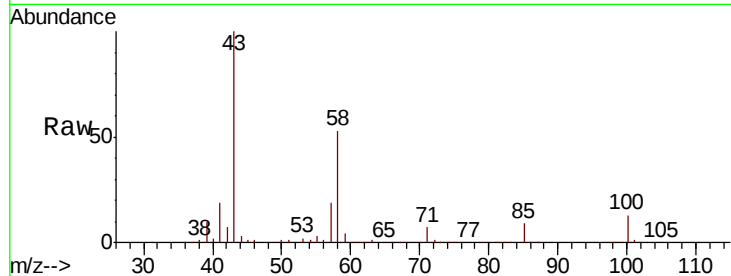




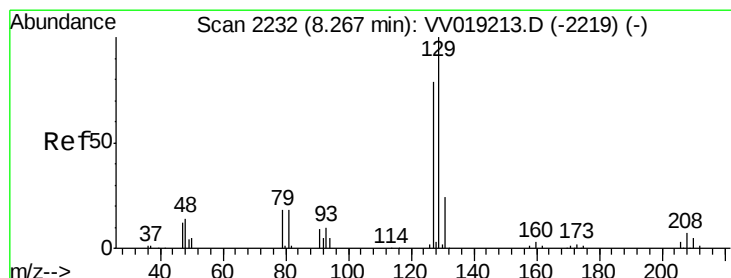
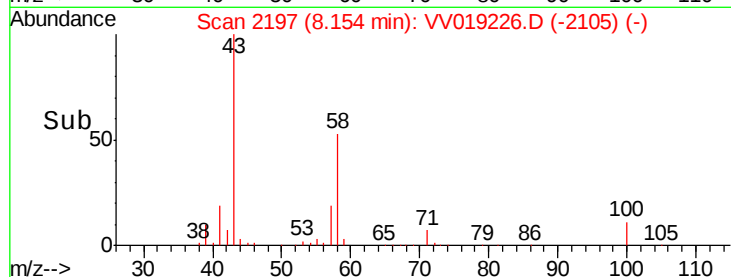
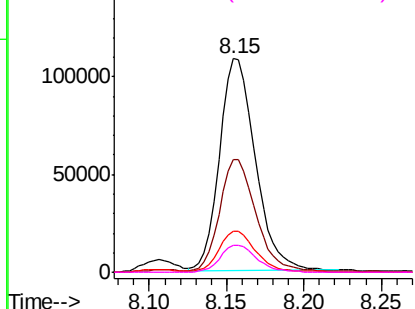
#48  
2-Hexanone  
Concen: 124.955 ug/L  
RT: 8.15 min Scan# 2197  
Delta R.T. -0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050310

Tot Ion: 43 Resp: 175180  
Ion Ratio Lower Upper  
43 100  
58 53.7 42.6 63.8  
57 19.0 15.8 23.8  
100 13.1 10.4 15.6

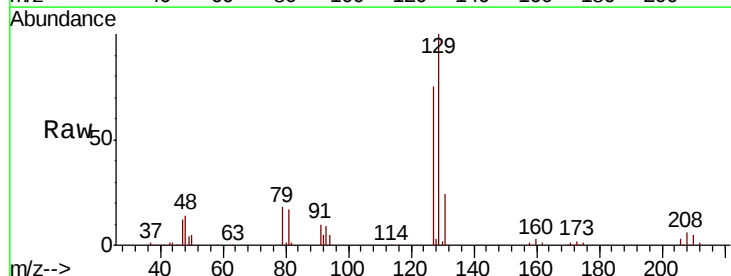


Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0

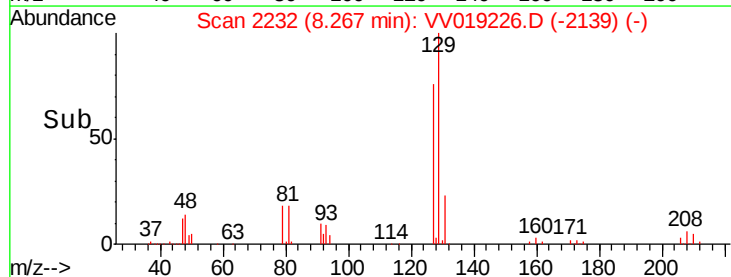
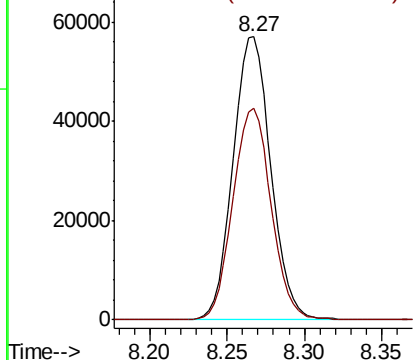


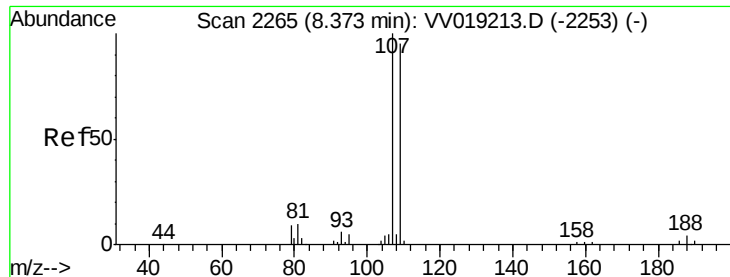
#49  
Dibromochloromethane  
Concen: 59.630 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Tgt Ion: 129 Resp: 97024  
Ion Ratio Lower Upper  
129 100  
127 74.8 54.4 101.0



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

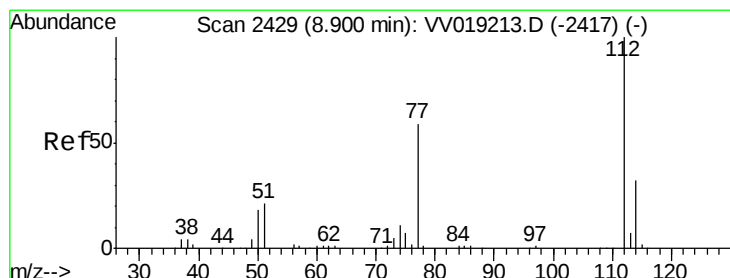
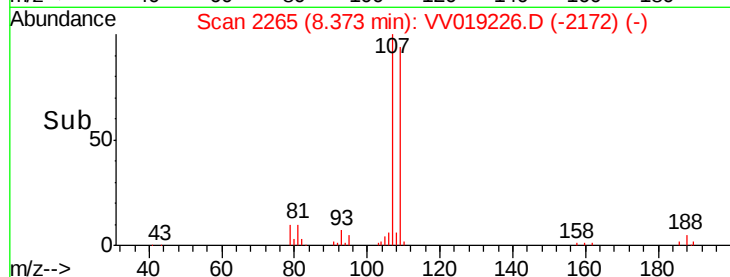
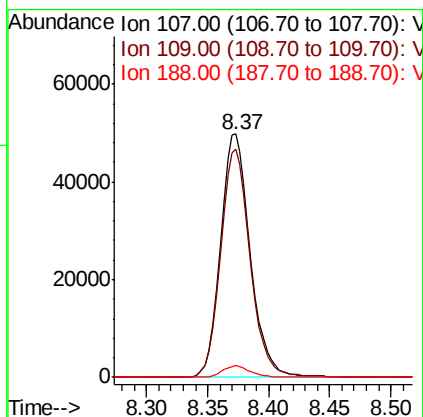
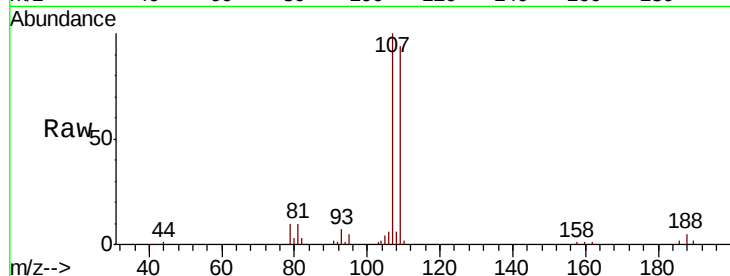




#50  
1,2-Dibromoethane  
Concen: 60.106 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

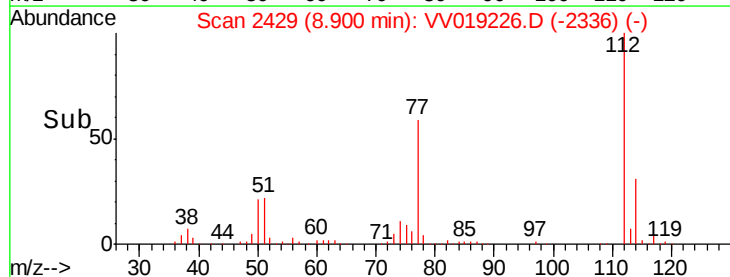
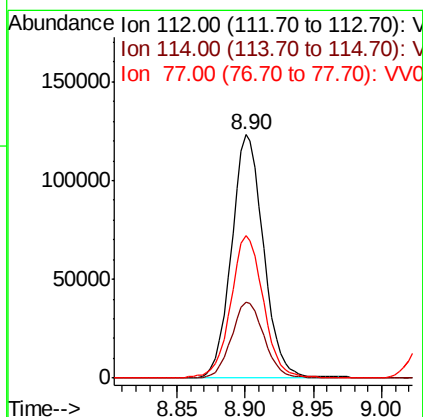
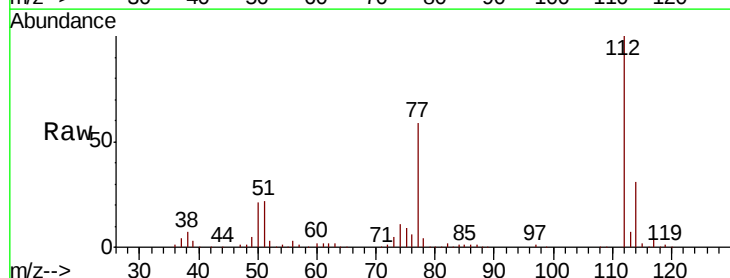
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050310

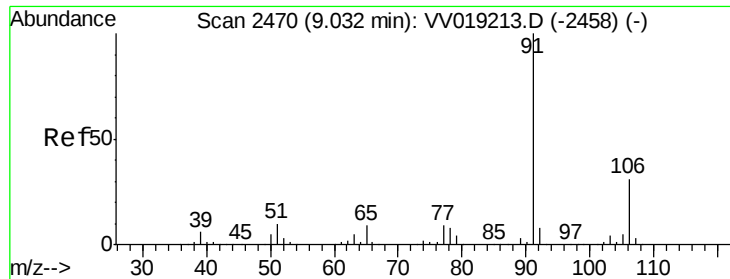
Tot Ion:107 Resp: 85000  
Ion Ratio Lower Upper  
107 100  
109 93.7 64.8 120.4  
188 4.8 3.8 5.8



#51  
Chlorobenzene  
Concen: 53.785 ug/L  
RT: 8.90 min Scan# 2429  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Tgt Ion:112 Resp: 201136  
Ion Ratio Lower Upper  
112 100  
114 31.2 22.7 42.1  
77 58.7 47.3 70.9





#52

Ethylbenzene

Concen: 52.146 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

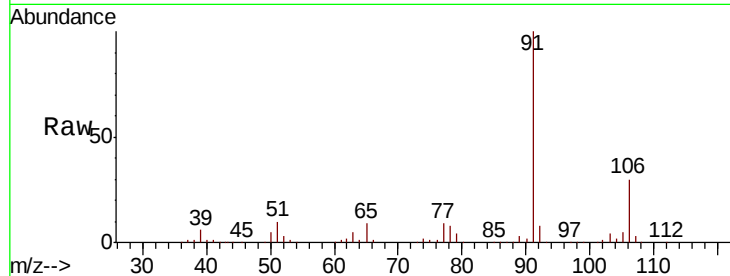
VSTD050310

Tot Ion: 91 Resp: 321636

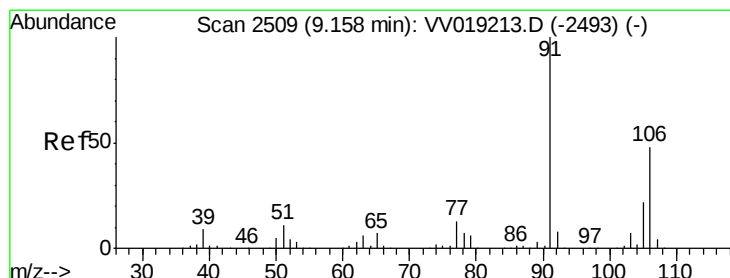
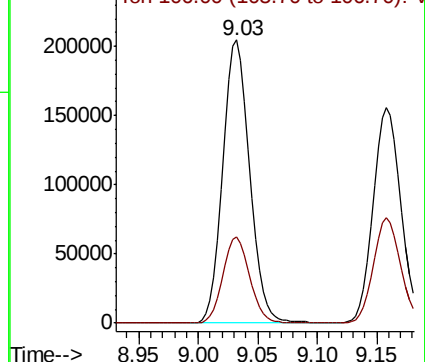
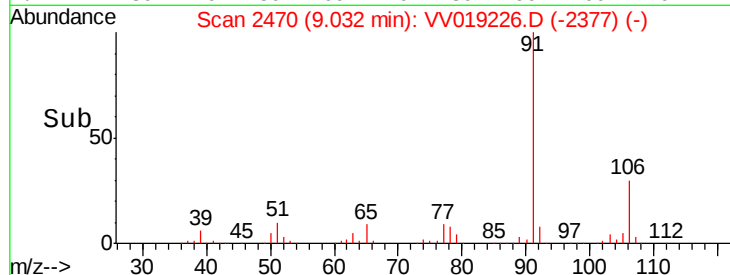
Ion Ratio Lower Upper

91 100

106 30.3 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV019226.D (-2377) (-)



#53

m,p-Xylene

Concen: 52.695 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019226.D

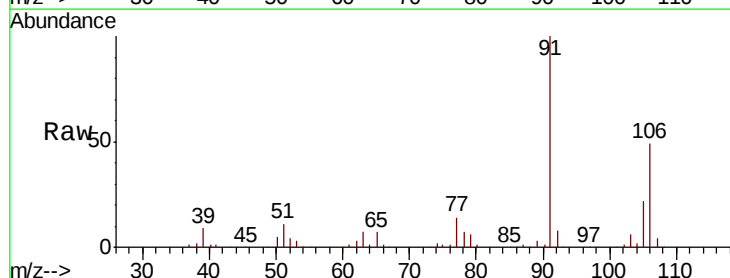
Acq: 03 Nov 2020 03:15

Tgt Ion: 106 Resp: 121684

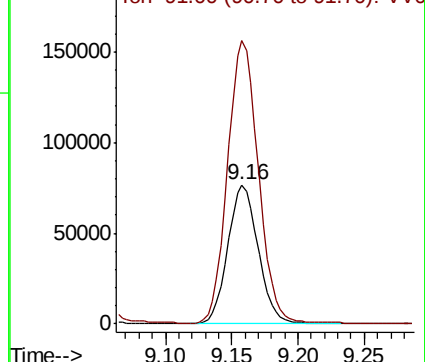
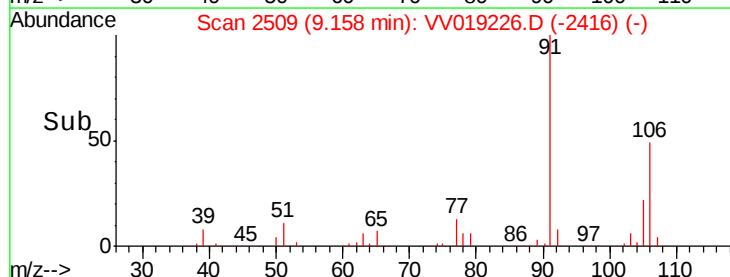
Ion Ratio Lower Upper

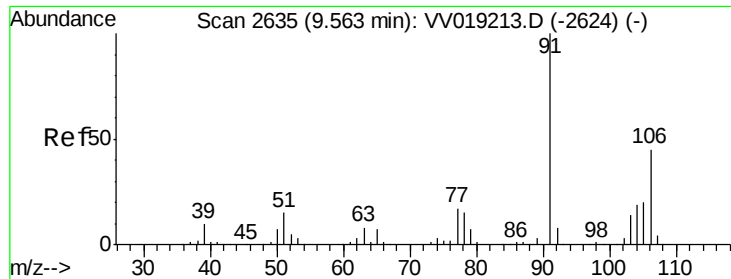
106 100

91 204.1 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019226.D (-2416) (-)

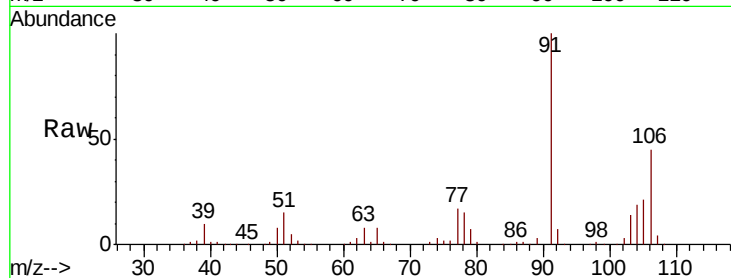




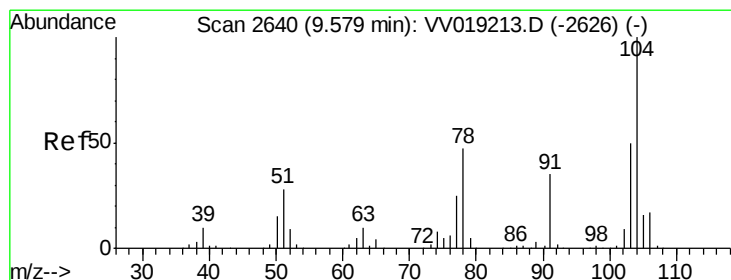
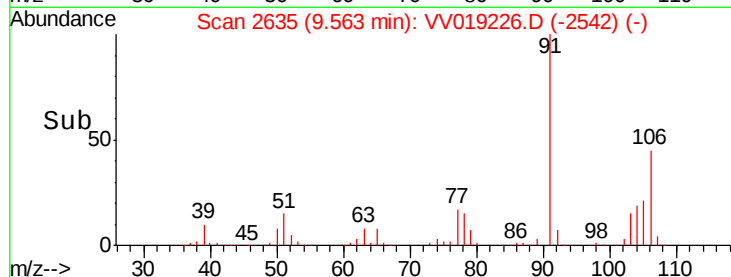
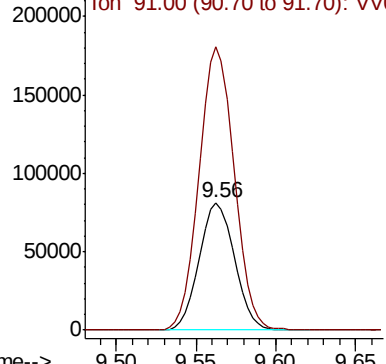
#54  
o-Xylene  
Concen: 53.870 ug/L  
RT: 9.56 min Scan# 2635  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050310

Tot Ion:106 Resp: 122616  
Ion Ratio Lower Upper  
106 100  
91 221.5 151.6 281.6

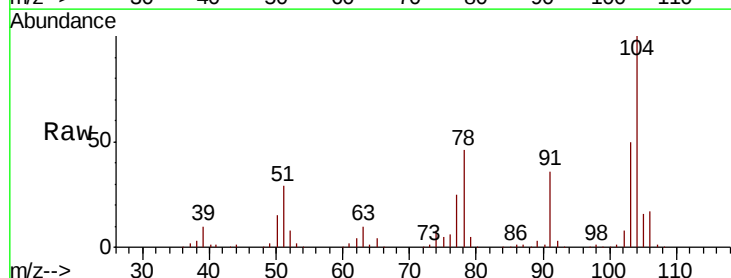


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

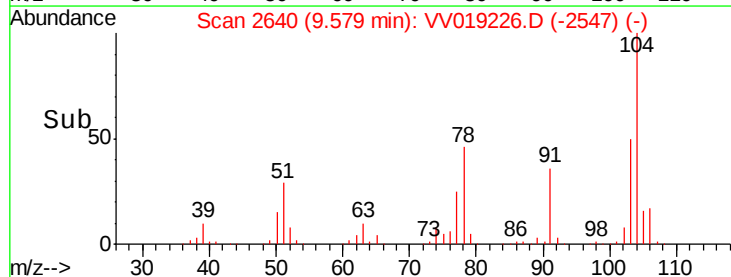
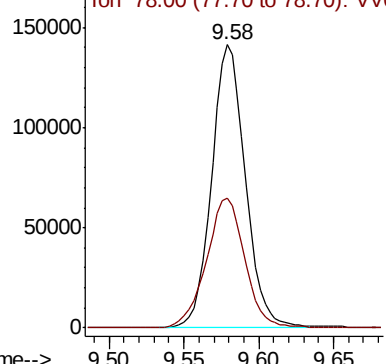


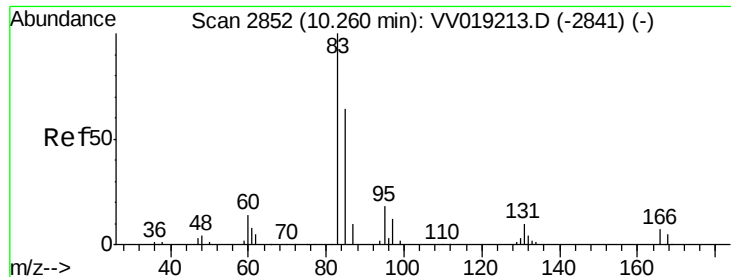
#55  
Styrene  
Concen: 54.756 ug/L  
RT: 9.58 min Scan# 2640  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Tgt Ion:104 Resp: 221851  
Ion Ratio Lower Upper  
104 100  
78 45.7 32.6 60.5



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

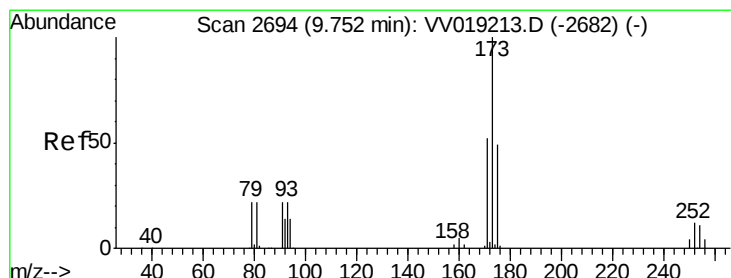
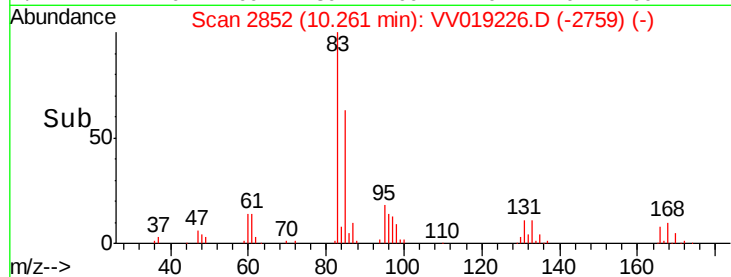
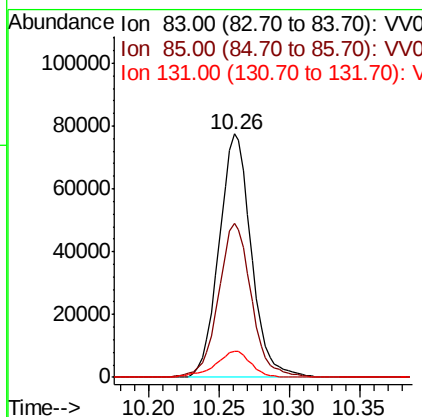
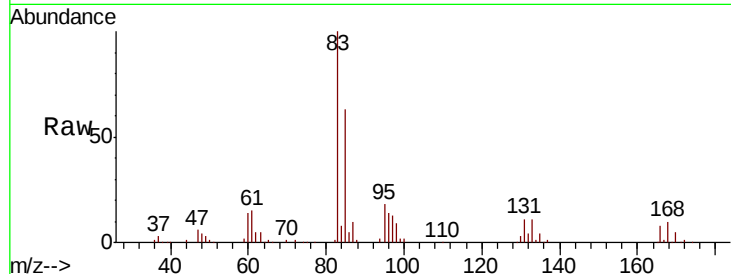




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 59.753 ug/L  
 RT: 10.26 min Scan# 2852  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

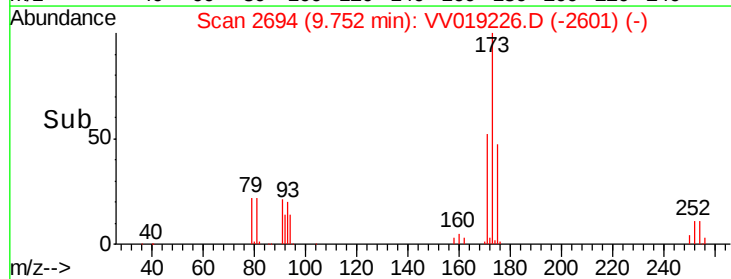
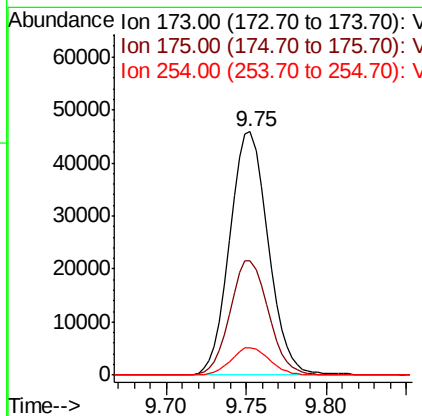
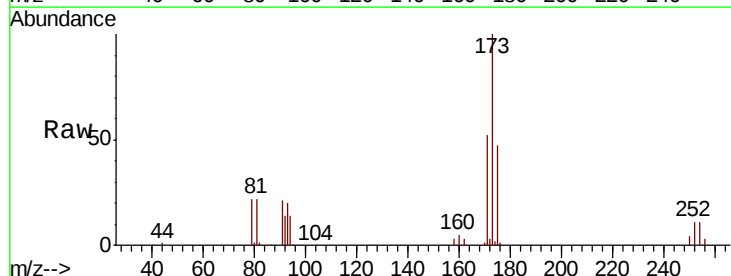
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

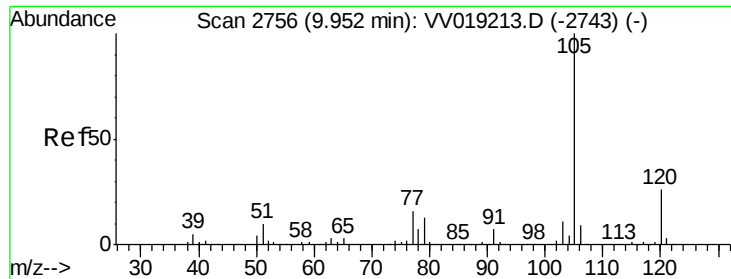
| Tot Ion   | 83    | Resp  | 123335 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 63.2  | 45.0  | 83.6   |
| 131       | 10.9  | 8.9   | 13.3   |



#59  
 Bromoform  
 Concen: 60.832 ug/L  
 RT: 9.75 min Scan# 2694  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

| Tgt Ion   | 173   | Resp  | 75296 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 46.9  | 38.4  | 57.6  |
| 254       | 11.3  | 9.0   | 13.6  |





#60

Isopropylbenzene

Concen: 52.488 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050310

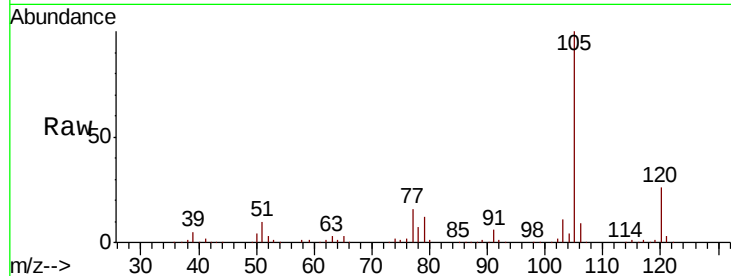
Tot Ion:105 Resp: 306799

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.4

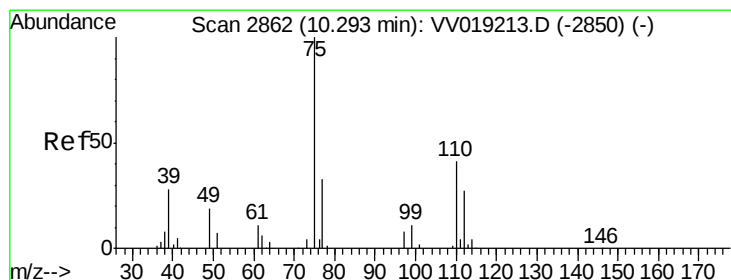
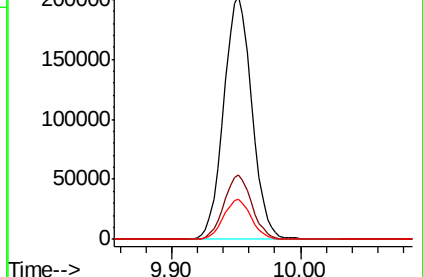
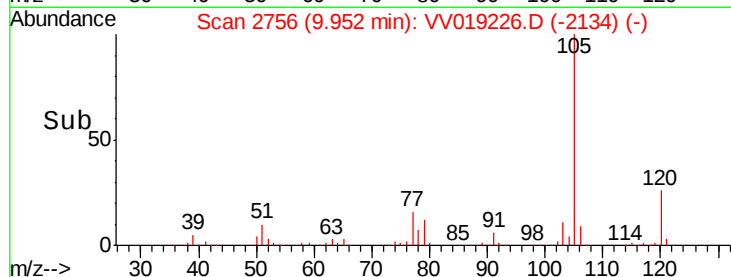
77 16.3 13.0 19.6



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



#61

1,2,3-Trichloropropane

Concen: 60.265 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

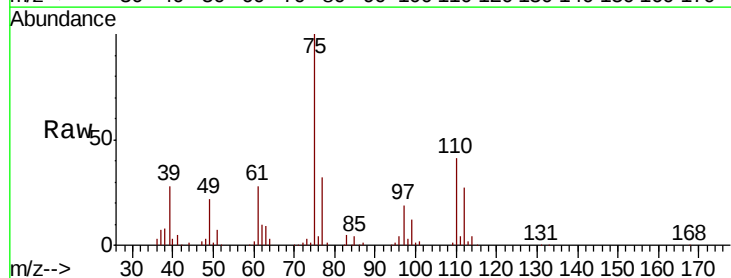
Tgt Ion: 75 Resp: 104417

Ion Ratio Lower Upper

75 100

77 32.1 24.8 37.2

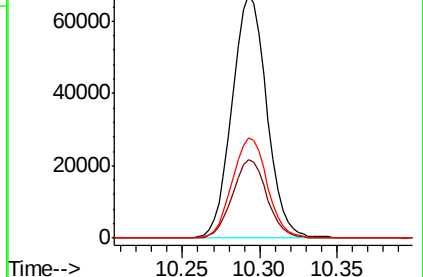
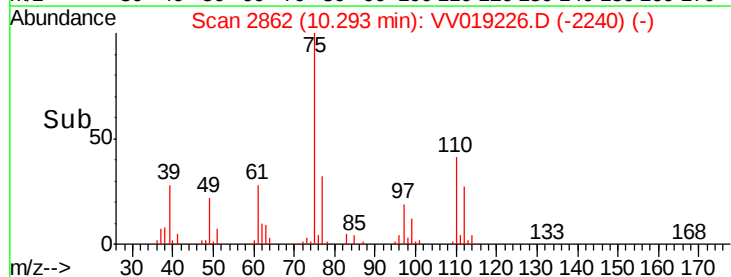
110 41.6 33.4 50.2

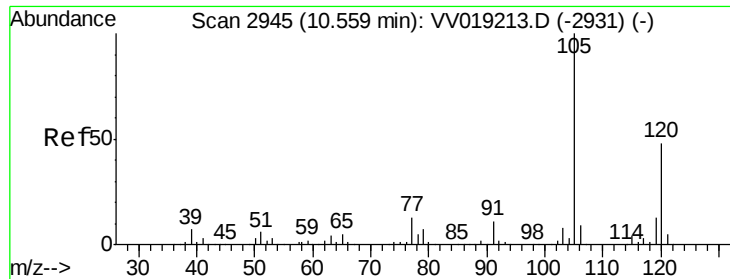


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 53.979 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV019226.D

Acq: 03 Nov 2020 03:15

Instrument :

MSVOA\_V

ClientSampleId :

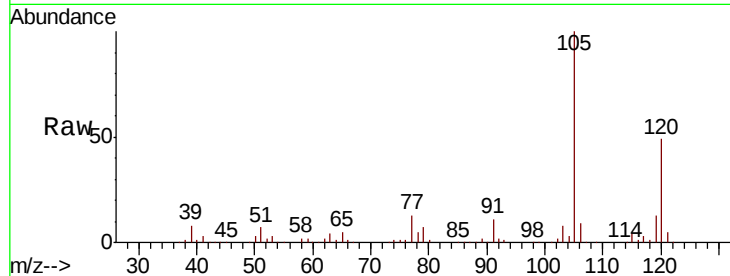
VSTD050310

Tot Ion:105 Resp: 262788

Ion Ratio Lower Upper

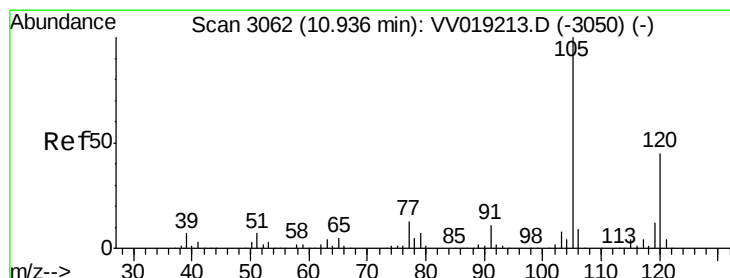
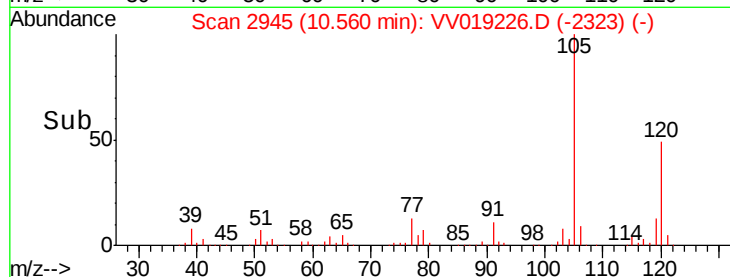
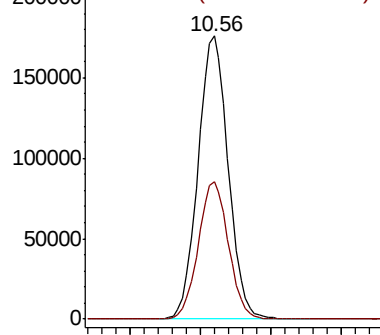
105 100

120 48.7 38.3 57.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 54.875 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV019226.D

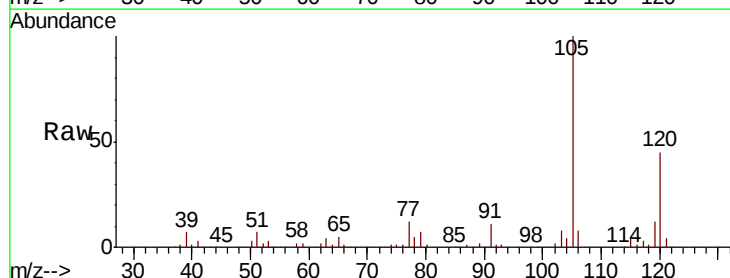
Acq: 03 Nov 2020 03:15

Tgt Ion:105 Resp: 261405

Ion Ratio Lower Upper

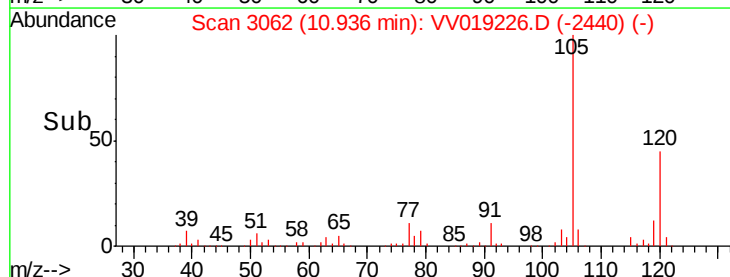
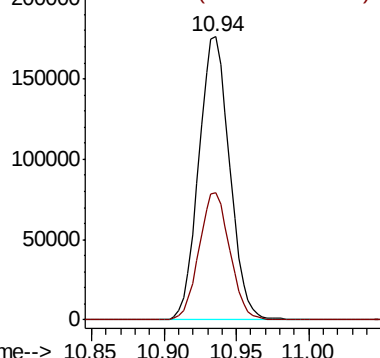
105 100

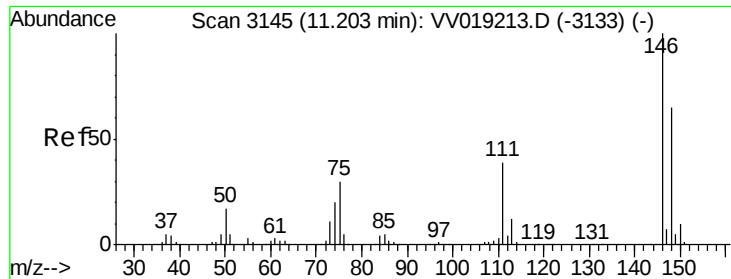
120 44.7 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

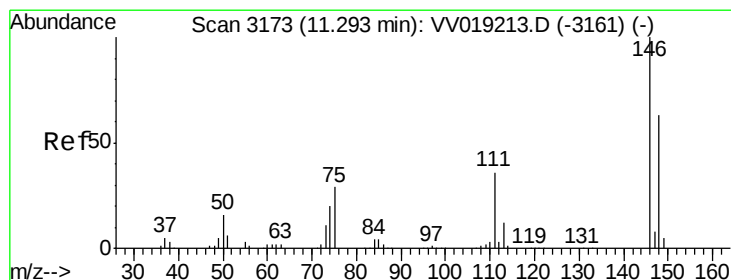
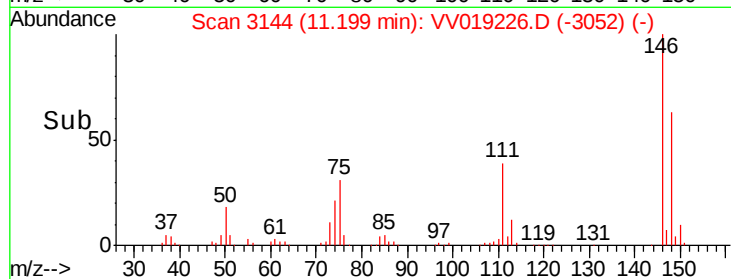
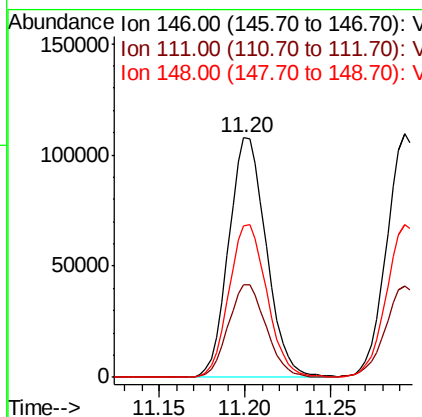
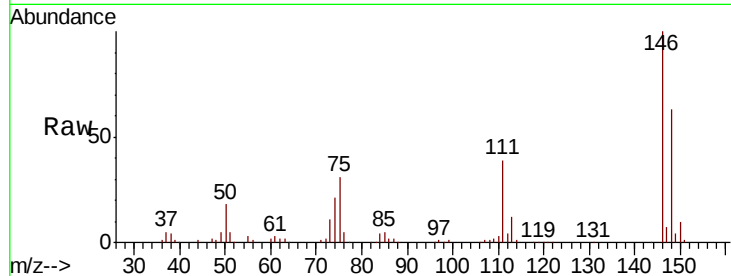




#64  
 1,3-Dichlorobenzene  
 Concen: 53.564 ug/L  
 RT: 11.20 min Scan# 3144  
 Delta R.T. -0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

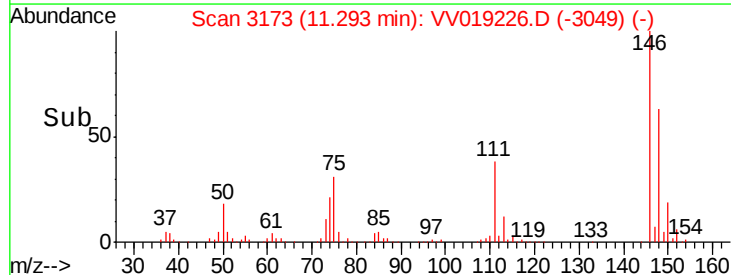
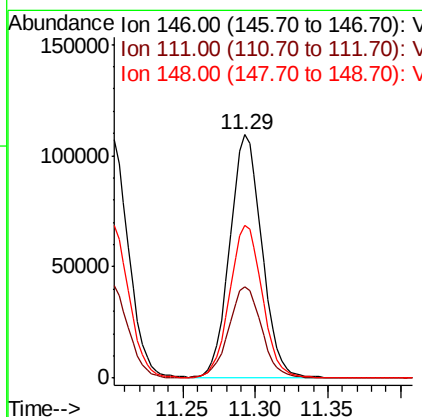
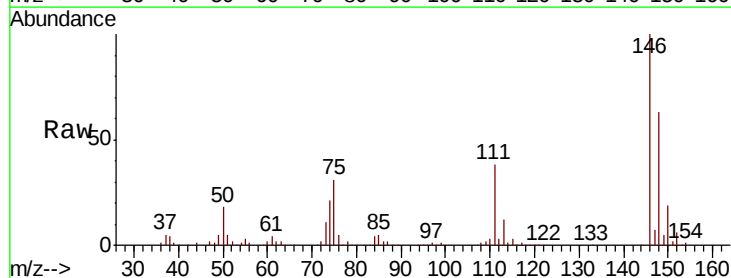
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

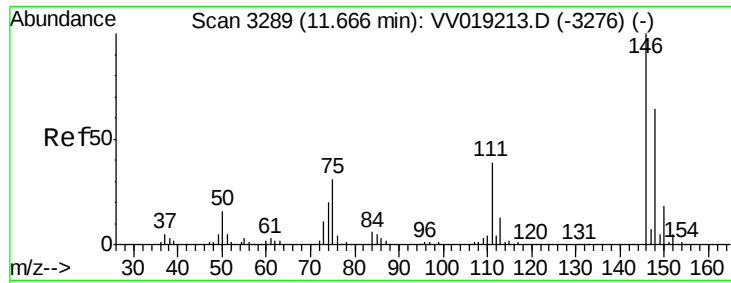
Tot Ion:146 Resp: 163767  
 Ion Ratio Lower Upper  
 146 100  
 111 38.6 27.3 50.7  
 148 63.5 45.2 84.0



#65  
 1,4-Dichlorobenzene  
 Concen: 52.946 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Tgt Ion:146 Resp: 167474  
 Ion Ratio Lower Upper  
 146 100  
 111 37.6 25.9 48.1  
 148 62.8 44.9 83.5

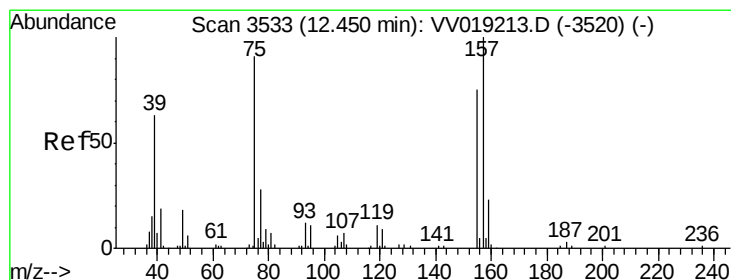
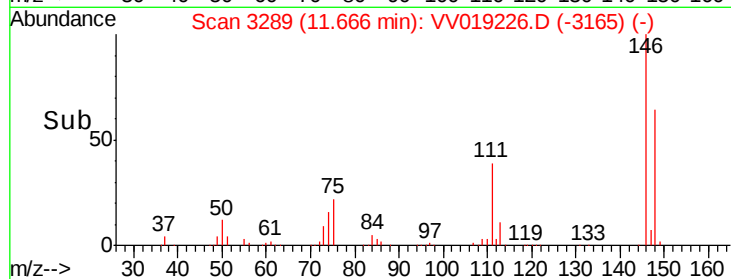
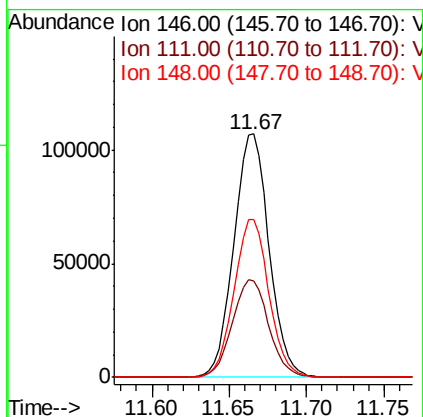
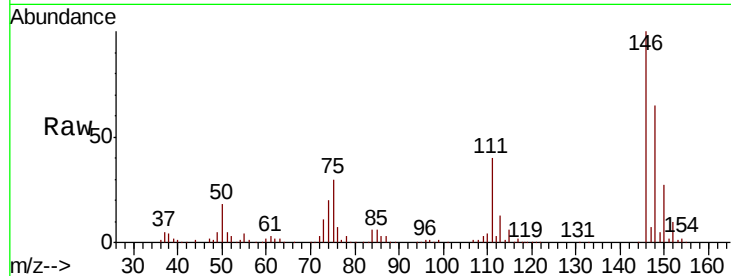




#67  
 1,2-Dichlorobenzene  
 Concen: 53.999 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

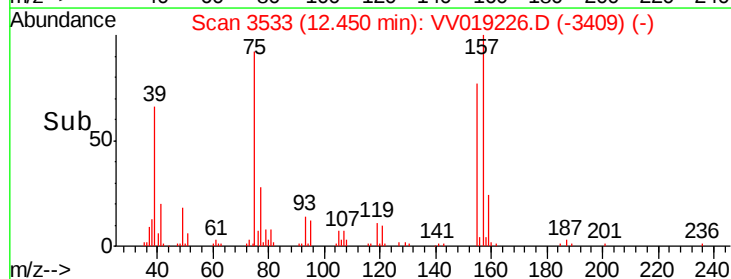
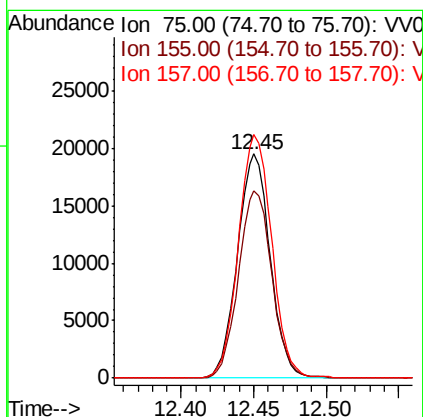
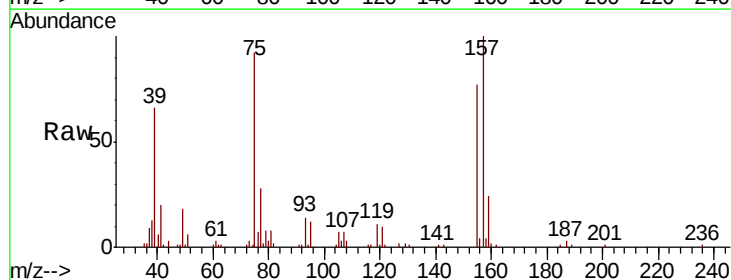
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

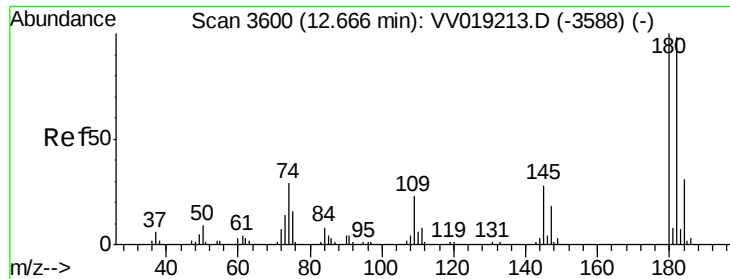
Tot Ion:146 Resp: 168904  
 Ion Ratio Lower Upper  
 146 100  
 111 39.8 32.6 48.8  
 148 65.0 50.1 75.1



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 60.544 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Tgt Ion: 75 Resp: 30603  
 Ion Ratio Lower Upper  
 75 100  
 155 83.8 65.8 98.6  
 157 108.8 86.3 129.5

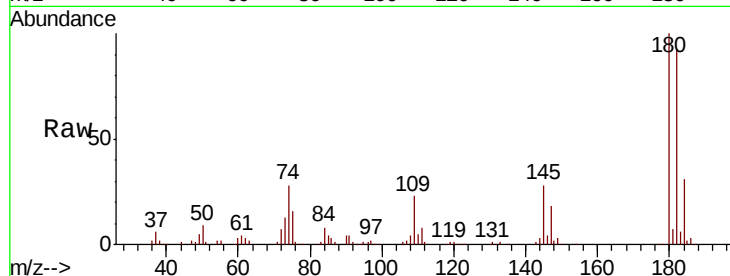




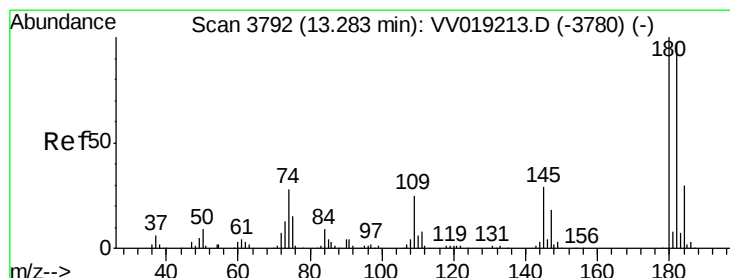
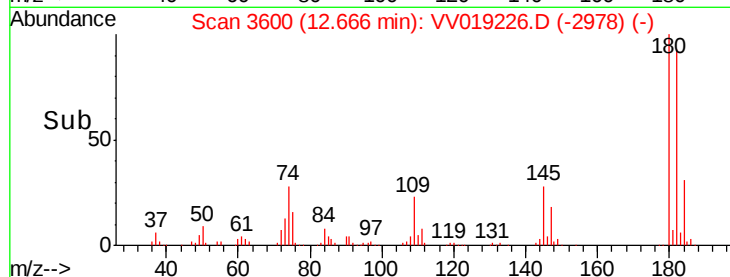
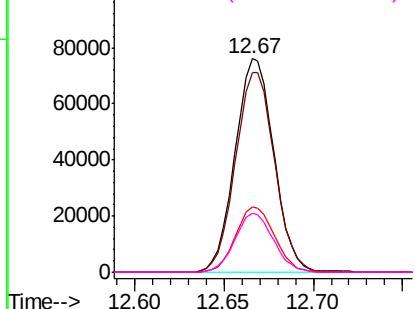
#69  
 1,3,5-Trichlorobenzene  
 Concen: 52.511 ug/L  
 RT: 12.67 min Scan# 3600  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050310

Tot Ion:180 Resp: 115232  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 77.7 116.5  
 184 30.6 24.9 37.3  
 145 27.2 23.4 35.0

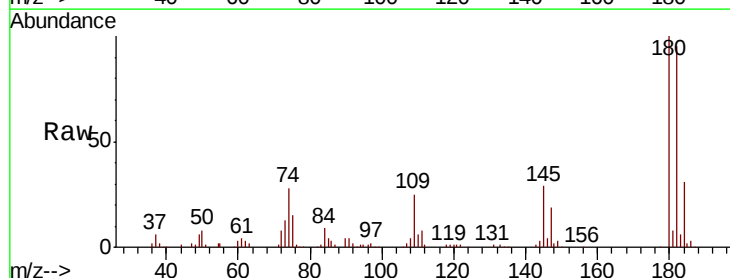


Abundance Ion 180.00 (179.70 to 180.70): V  
 120000  
 Ion 182.00 (181.70 to 182.70): V  
 100000  
 Ion 184.00 (183.70 to 184.70): V  
 80000  
 Ion 145.00 (144.70 to 145.70): V

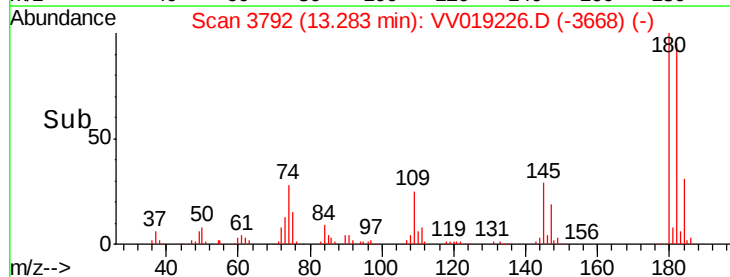
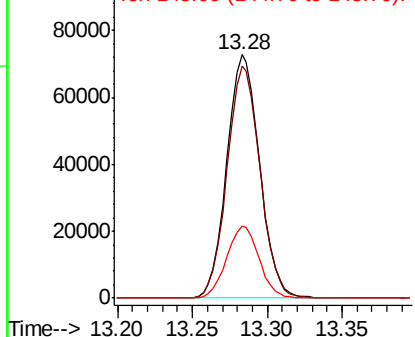


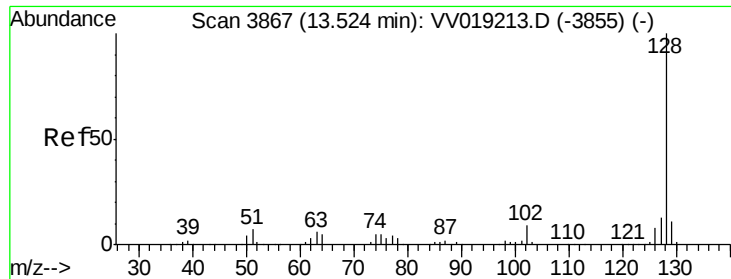
#70  
 1,2,4-trichlorobenzene  
 Concen: 53.866 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV019226.D  
 Acq: 03 Nov 2020 03:15

Tgt Ion:180 Resp: 111225  
 Ion Ratio Lower Upper  
 180 100  
 182 95.8 76.6 114.8  
 145 29.0 23.2 34.8



Abundance Ion 180.00 (179.70 to 180.70): V  
 100000  
 Ion 182.00 (181.70 to 182.70): V  
 80000  
 Ion 145.00 (144.70 to 145.70): V

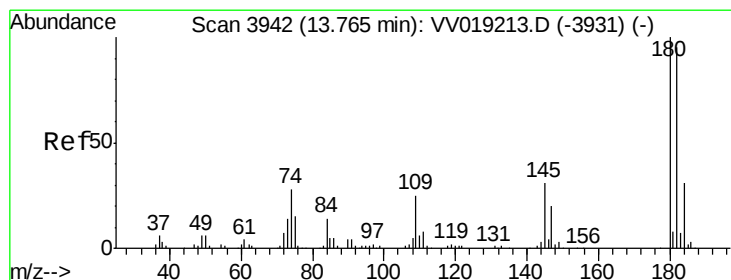
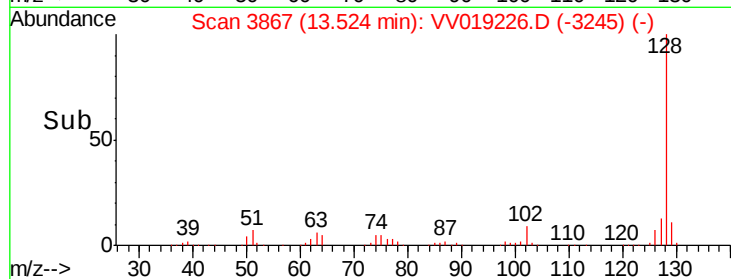
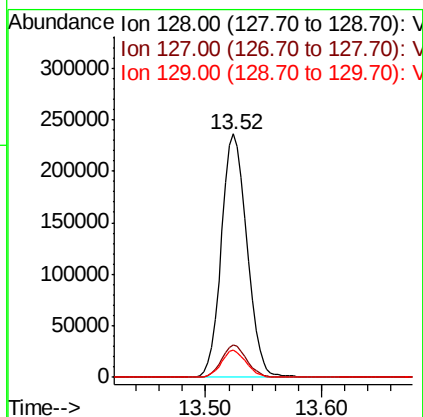
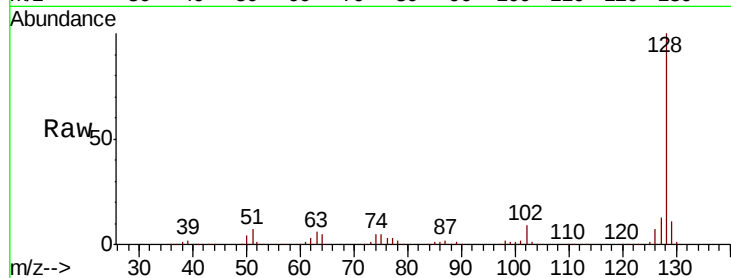




#71  
Naphthalene  
Concen: 61.921 ug/L  
RT: 13.52 min Scan# 3867  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050310

Tot Ion:128 Resp: 360592  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.7 16.1  
129 10.8 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 56.354 ug/L  
RT: 13.77 min Scan# 3942  
Delta R.T. 0.00 min  
Lab File: VV019226.D  
Acq: 03 Nov 2020 03:15

Tgt Ion:180 Resp: 115350  
Ion Ratio Lower Upper  
180 100  
182 96.5 77.4 116.0  
145 30.5 24.7 37.1

