

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV033020\  
 Data File : VV015271.D  
 Acq On : 30 Mar 2020 14:01  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Mar 31 02:08:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM033020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 30 14:04:11 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 669779   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 668944   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 316493   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 239758   | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 98.20%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 222585   | 48.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.96%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 515532   | 48.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.90%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 331728   | 103.87   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.87% |
| 24) Chloroform-d               | 4.38    | 84    | 427719   | 48.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.44%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 282161   | 49.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.34%  |
| 32) Benzene-d6                 | 5.08    | 84    | 833118   | 47.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.42%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 260302   | 47.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.34%  |
| 41) Toluene-d8                 | 7.34    | 98    | 833032   | 49.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.62%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 144181   | 48.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.96%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 256341   | 100.06   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 396055   | 49.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.28%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 303677   | 48.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.42%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 237868   | 50.481 | ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50   | 266733   | 49.847 | ug/L   | 100    |
| 5) Vinyl chloride              | 1.32 | 62   | 281246   | 49.820 | ug/L   | 100    |
| 6) Bromomethane                | 1.53 | 94   | 188417   | 49.892 | ug/L   | 97     |
| 8) Chloroethane                | 1.60 | 64   | 184898   | 47.496 | ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 476086   | 49.891 | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101  | 249202   | 48.701 | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 244658   | 49.390 | ug/L   | 98     |
| 13) Acetone                    | 2.22 | 43   | 201793   | 92.593 | ug/L   | 64     |
| 14) Carbon disulfide           | 2.31 | 76   | 577955   | 47.945 | ug/L   | 99     |
| 15) Methyl Acetate             | 2.46 | 43   | 226314   | 51.716 | ug/L   | 99     |
| 16) Methylene chloride         | 2.52 | 84   | 226834   | 48.945 | ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96   | 205848   | 49.589 | ug/L   | 97     |
| 18) Methyl tert-butyl Ether    | 2.79 | 73   | 716915   | 50.724 | ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63   | 389006   | 50.264 | ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96   | 234859   | 50.331 | ug/L # | 96     |
| 22) 2-Butanone                 | 4.02 | 43   | 315503   | 99.310 | ug/L   | 96     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Mar 31 02:08:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM033020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 30 14:04:11 2020  
 Response via : Initial Calibration

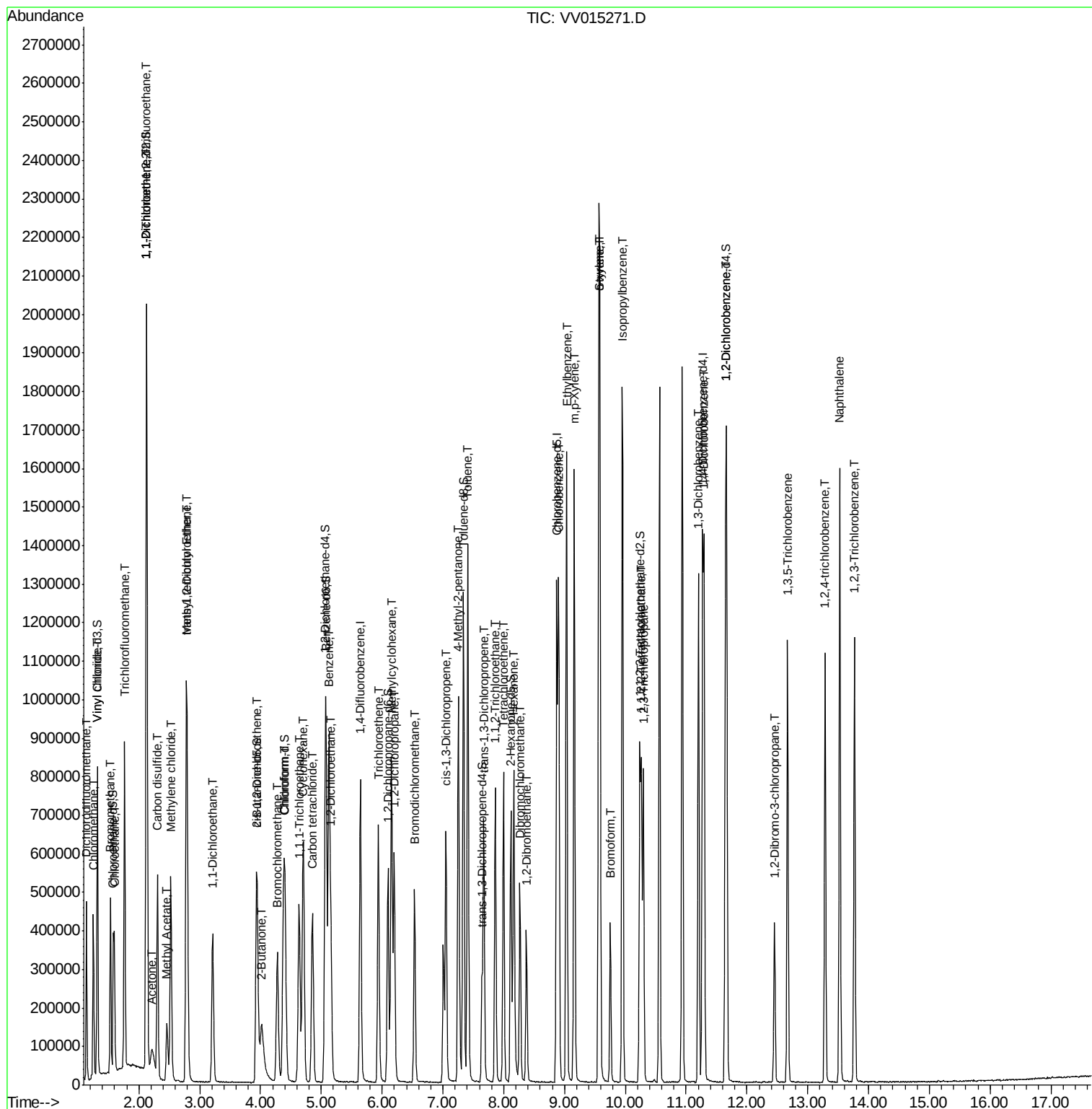
| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 114437   | 49.818  | ug/L  | 98       |
| 25) Chloroform                  | 4.41  | 83   | 412686   | 49.942  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 329910   | 50.197  | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 351427   | 49.527  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 381953   | 50.358  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.86  | 117  | 316949   | 49.328  | ug/L  | 99       |
| 33) Benzene                     | 5.13  | 78   | 889720   | 50.241  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 231378   | 48.704  | ug/L  | 96       |
| 35) Methylcyclohexane           | 6.15  | 83   | 360151   | 48.334  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 226746   | 50.339  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 326195   | 50.358  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 381967   | 50.211  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 683714   | 102.086 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 1026614  | 51.640  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 375640   | 50.255  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 231004   | 50.906  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 158092   | 50.291  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.16  | 43   | 545263   | 106.125 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 252046   | 50.822  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 250491   | 50.805  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 659717   | 50.990  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.04  | 91   | 1150207  | 51.307  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 439180   | 51.361  | ug/L  | 98       |
| 54) o-xylene                    | 9.57  | 106  | 443652   | 52.155  | ug/L  | 95       |
| 55) Styrene                     | 9.58  | 104  | 759333   | 52.312  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 1153520  | 51.516  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 394117   | 52.333  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 319044   | 51.193  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 165703   | 52.498  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 11.21 | 146  | 491463   | 50.916  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 485914   | 49.320  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 491501   | 50.460  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 107124   | 49.985  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 306325   | 49.724  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 287294   | 49.080  | ug/L  | 99       |
| 69) Naphthalene                 | 13.53 | 128  | 1206482  | 51.706  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 296558   | 50.481  | ug/L  | 99       |

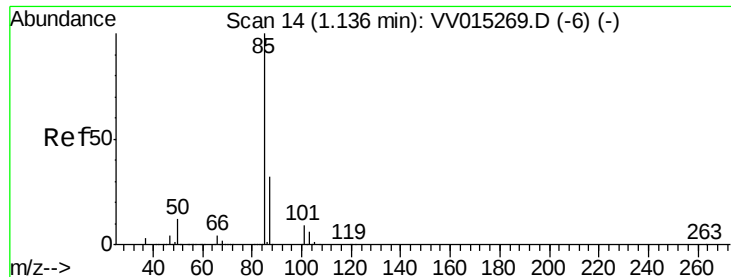
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Mar 31 02:08:01 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM033020WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 30 14:04:11 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 50.481 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

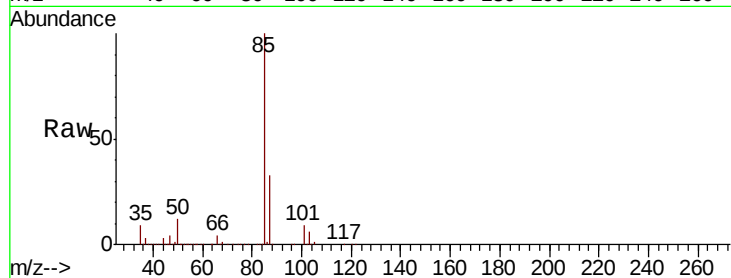
ClientSampled :

Tot Ion: 85 Resp: 237868

Ion Ratio Lower Upper

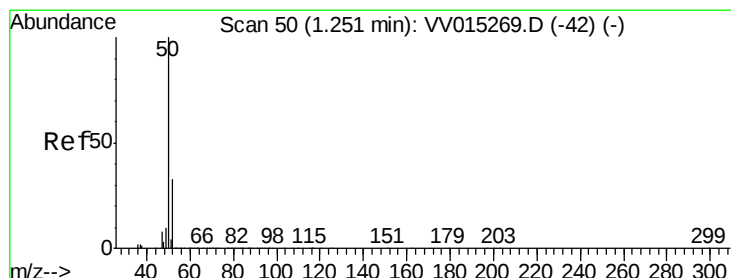
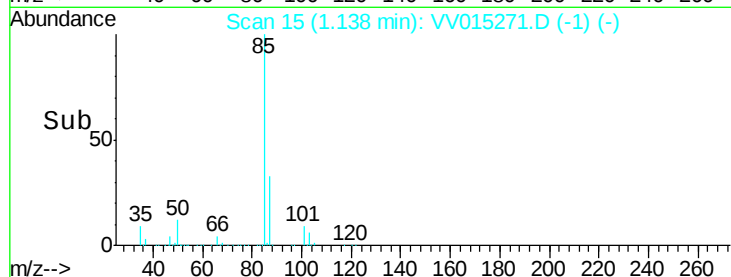
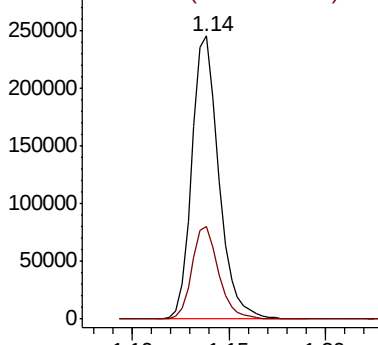
85 100

87 32.4 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 49.847 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV015271.D

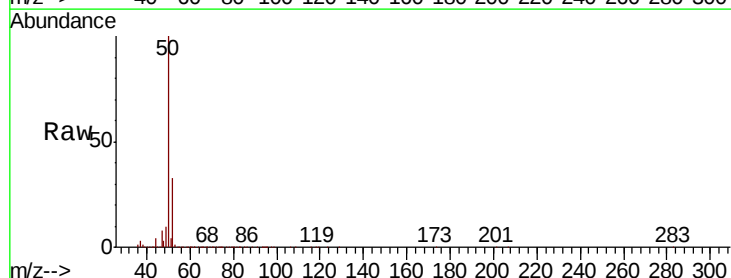
Acq: 30 Mar 2020 14:01

Tgt Ion: 50 Resp: 266733

Ion Ratio Lower Upper

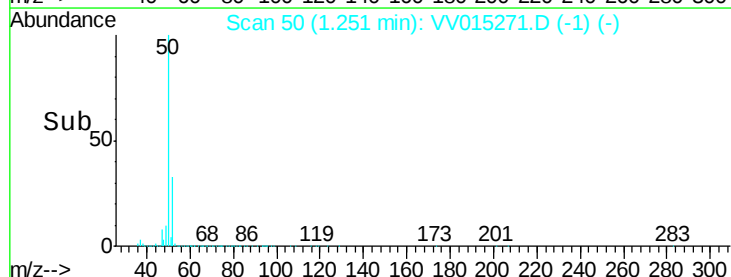
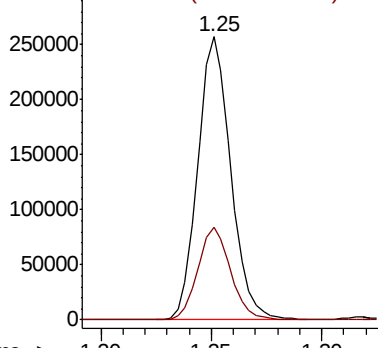
50 100

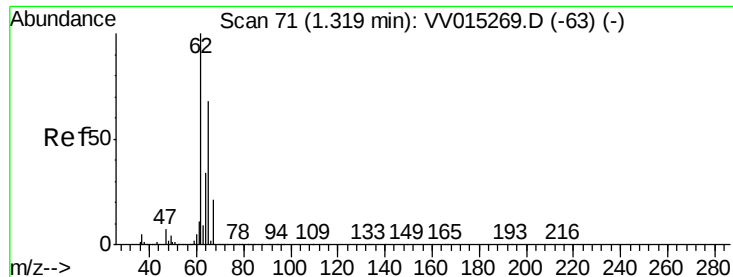
52 32.5 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 49.820 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

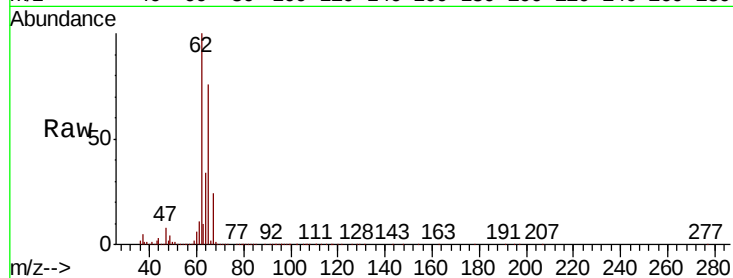
ClientSampled :

Tot Ion: 62 Resp: 281246

Ion Ratio Lower Upper

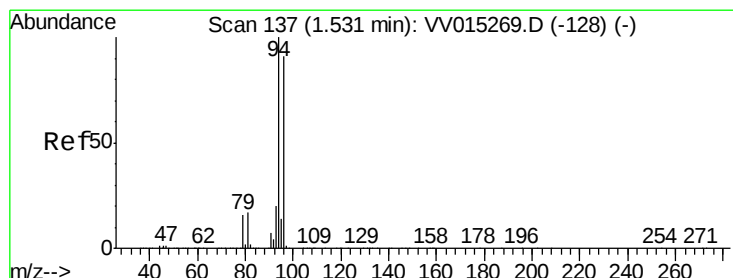
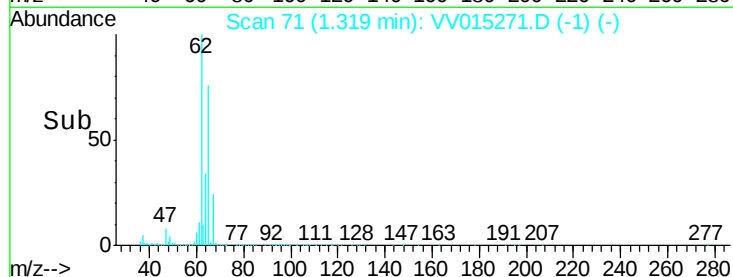
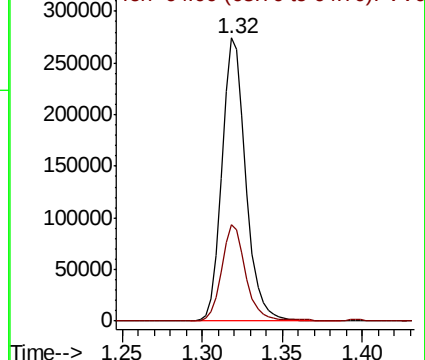
62 100

64 34.2 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 49.892 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV015271.D

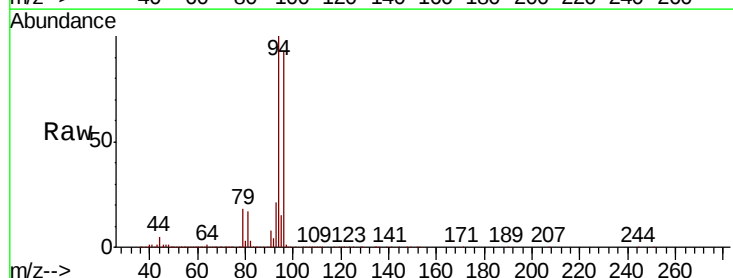
Acq: 30 Mar 2020 14:01

Tgt Ion: 94 Resp: 188417

Ion Ratio Lower Upper

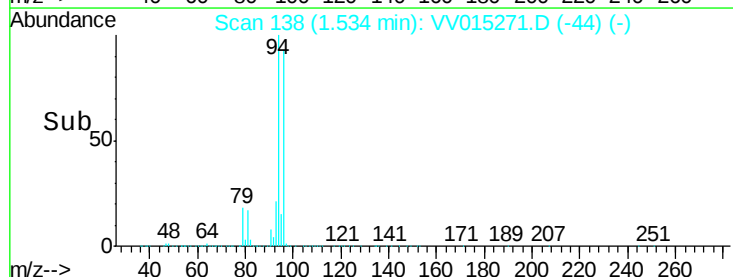
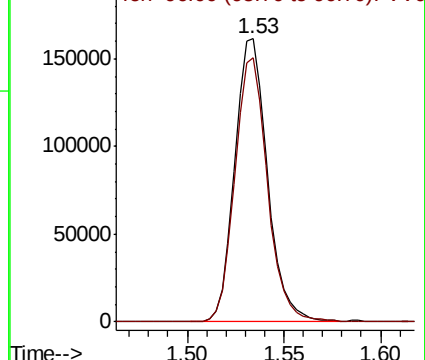
94 100

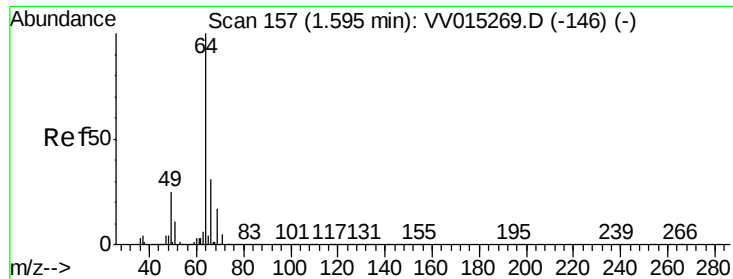
96 93.4 63.7 118.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 47.496 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

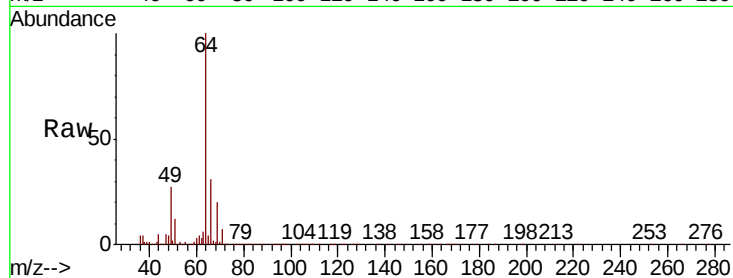
ClientSampleId :

Tot Ion: 64 Resp: 184898

Ion Ratio Lower Upper

64 100

66 30.7 21.5 39.9



Abundance Ion 64.00 (63.70 to 64.70): VV015271.D (-33) (-)

Ion 66.00 (65.70 to 66.70): VV015271.D (-33) (-)

1.60

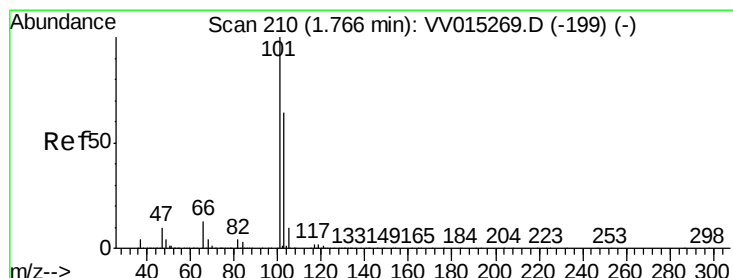
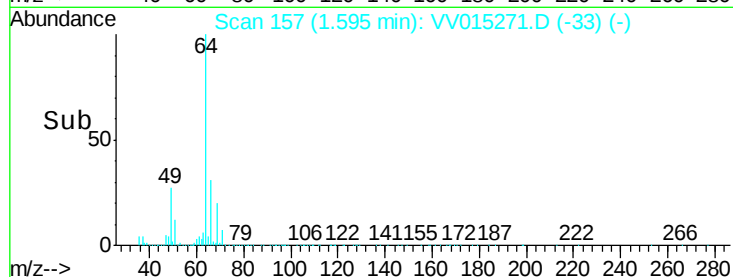
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 49.891 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV015271.D

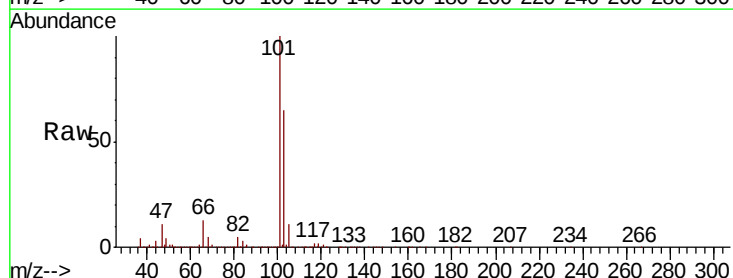
Acq: 30 Mar 2020 14:01

Tgt Ion: 101 Resp: 476086

Ion Ratio Lower Upper

101 100

103 64.9 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VV015271.D (-86) (-)

Ion 103.00 (102.70 to 103.70): VV015271.D (-86) (-)

1.77

400000

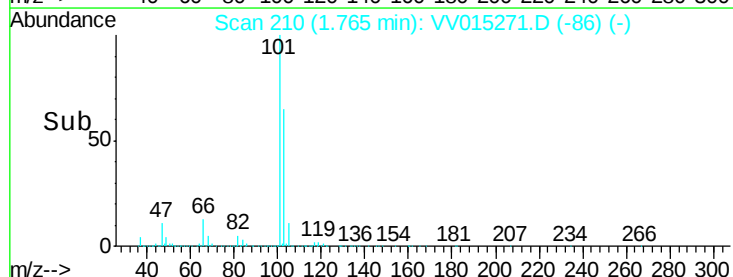
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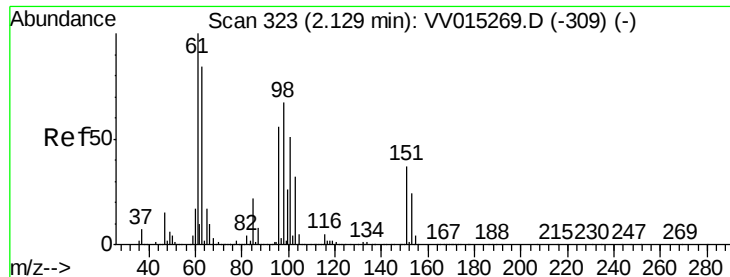
200000

100000

0

Time-->





#10

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

Concen: 48.701 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

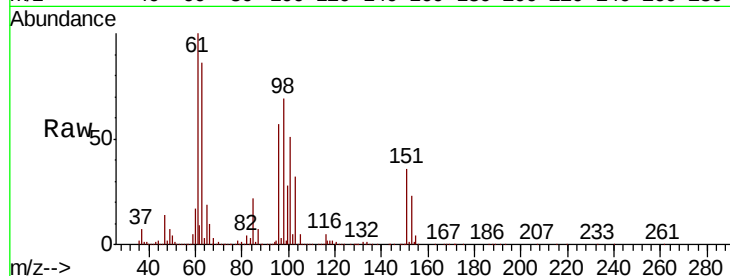
Tot Ion:101 Resp: 249202

Ion Ratio Lower Upper

101 100

85 44.5 35.0 52.6

151 72.5 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): VV015271.D (-230) (-)

Ion 85.00 (84.70 to 85.70): VV015271.D (-230) (-)

Ion 151.00 (150.70 to 151.70): VV015271.D (-230) (-)

2.13

150000

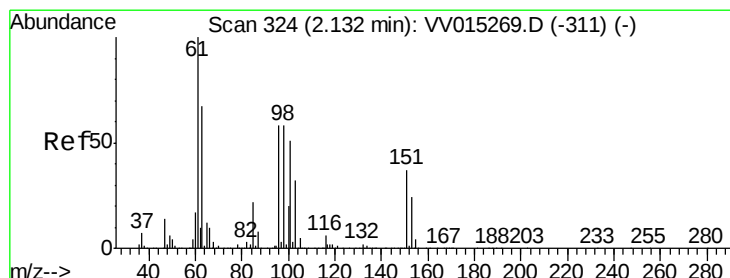
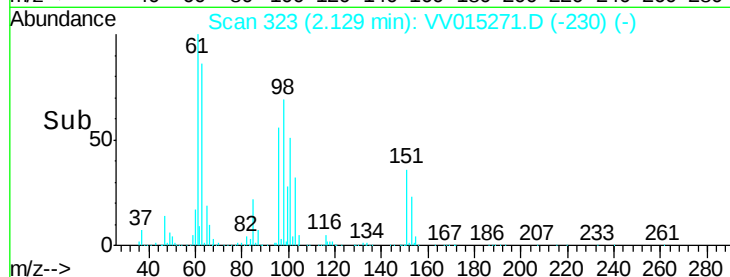
100000

50000

0

Time-->

2.05 2.10 2.15 2.20



#12

1,1-Dichloroethene

Concen: 49.390 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

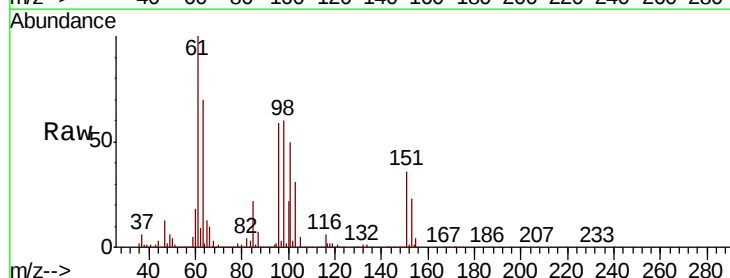
Tgt Ion: 96 Resp: 244658

Ion Ratio Lower Upper

96 100

61 170.4 120.9 224.5

63 119.0 81.2 150.8



Abundance Ion 96.00 (95.70 to 96.70): VV015271.D (-231) (-)

Ion 61.00 (60.70 to 61.70): VV015271.D (-231) (-)

Ion 63.00 (62.70 to 63.70): VV015271.D (-231) (-)

2.13

400000

300000

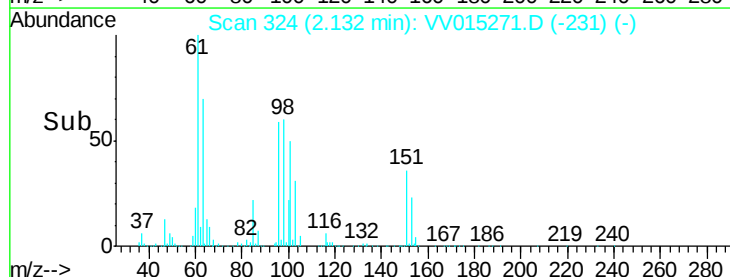
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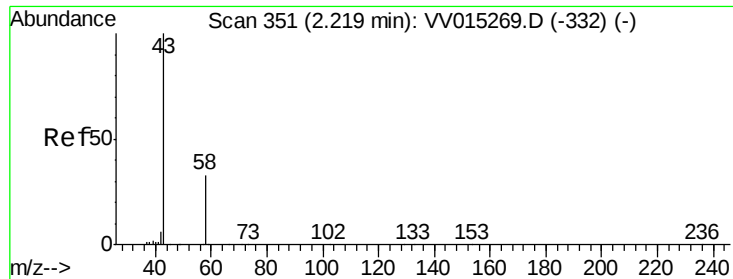
100000

0

Time-->

2.05 2.10 2.15 2.20





#13

Acetone

Concen: 92.593 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

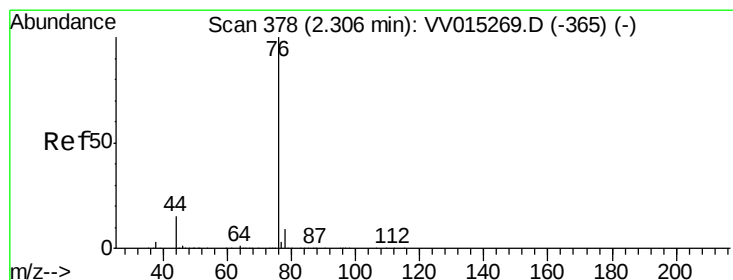
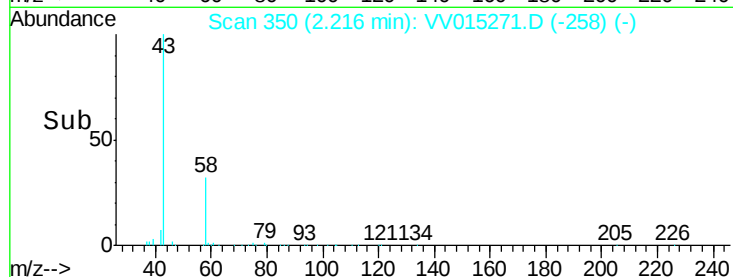
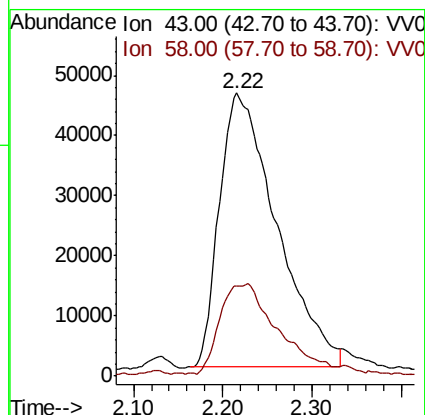
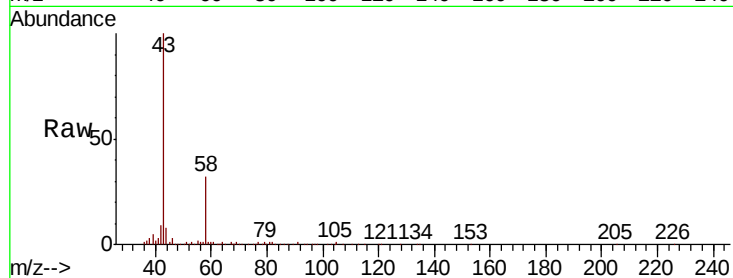
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 201793

Ion Ratio Lower Upper

43 100

58 11.9 0.0 63.6



#14

Carbon disulfide

Concen: 47.945 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV015271.D

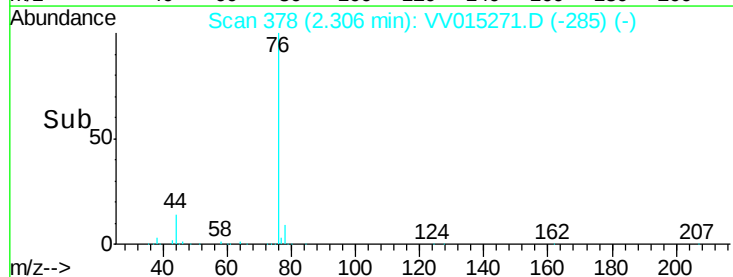
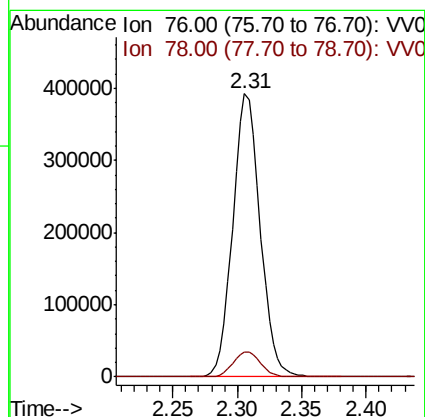
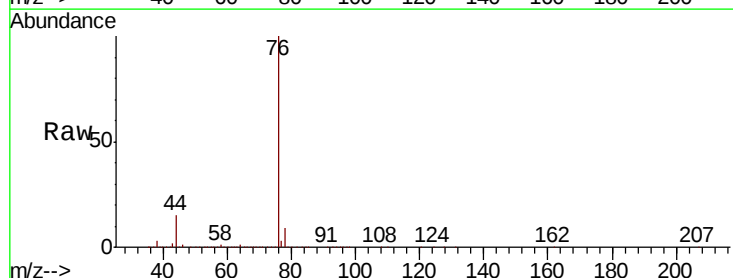
Acq: 30 Mar 2020 14:01

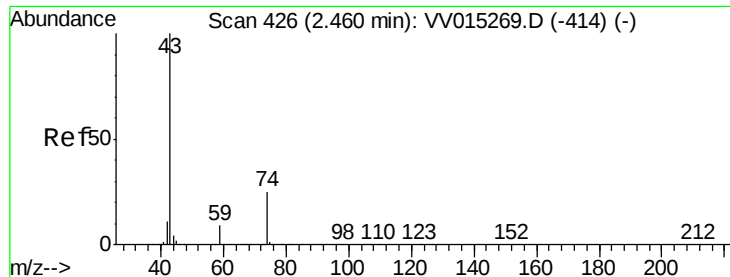
Tgt Ion: 76 Resp: 577955

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.0

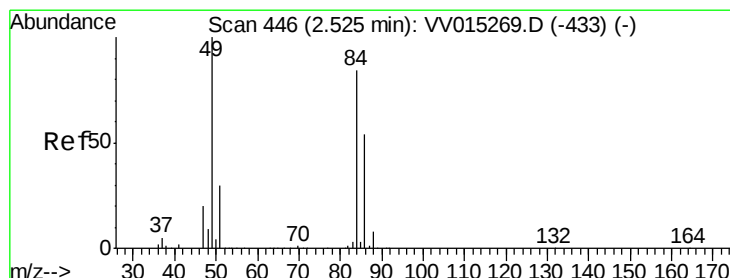
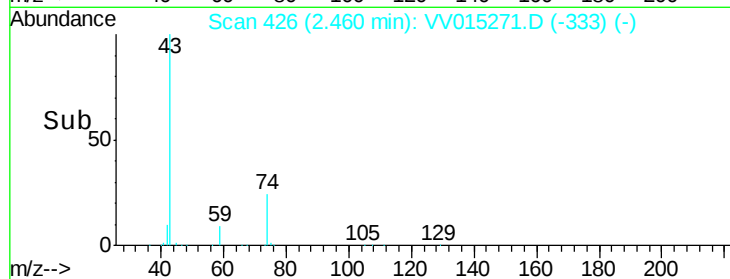
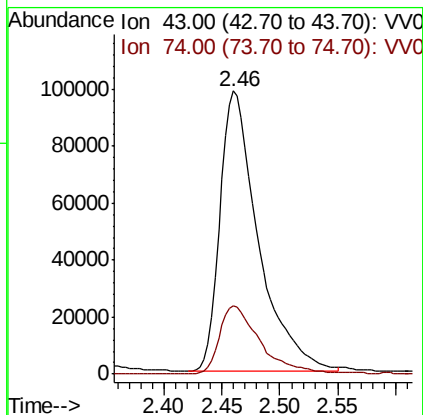
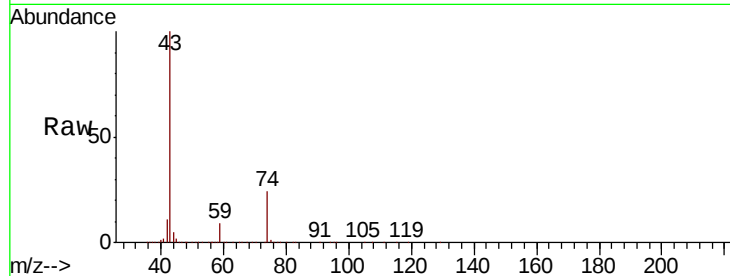




#15  
Methvl Acetate  
Concen: 51.716 ug/L  
RT: 2.46 min Scan# 426  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

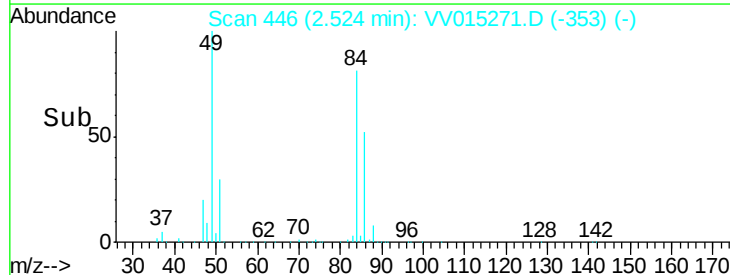
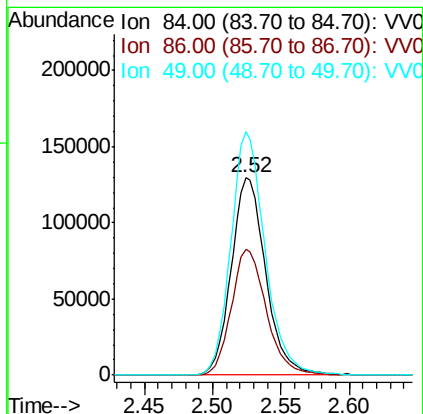
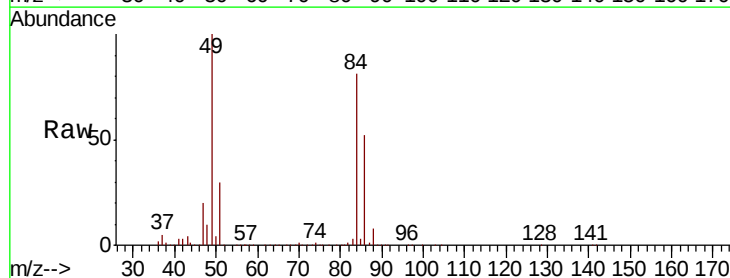
Instrument :  
MSVOA\_V  
ClientSampled :

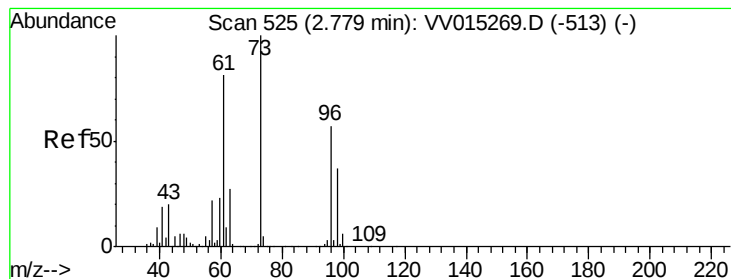
Tot Ion: 43 Resp: 226314  
Ion Ratio Lower Upper  
43 100  
74 26.0 20.3 30.5



#16  
Methylene chloride  
Concen: 48.945 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

Tgt Ion: 84 Resp: 226834  
Ion Ratio Lower Upper  
84 100  
86 64.0 45.5 84.5  
49 123.5 83.7 155.4





#17

trans-1,2-Dichloroethene

Concen: 49.589 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :

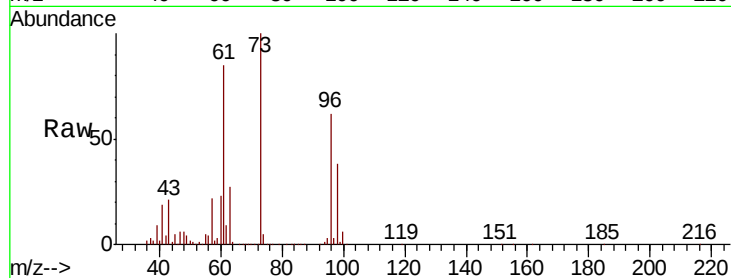
Tot Ion: 96 Resp: 205848

Ion Ratio Lower Upper

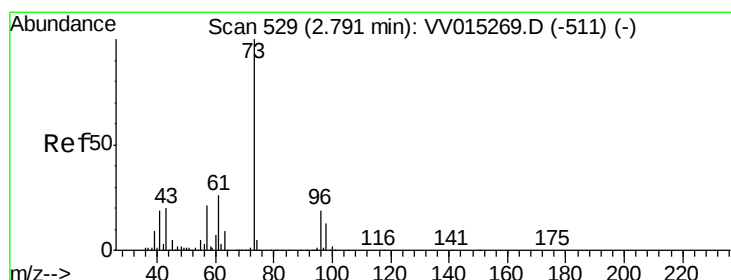
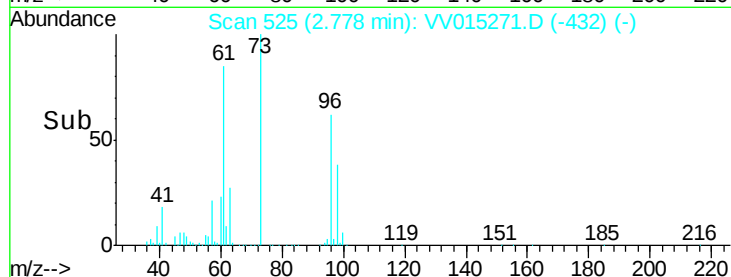
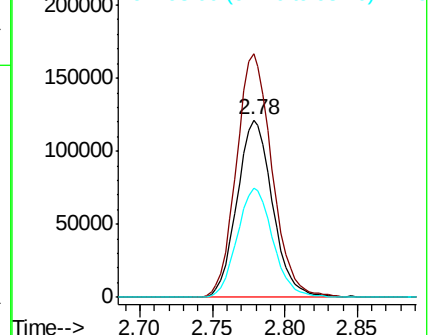
96 100

61 137.2 98.5 182.9

98 61.3 45.5 84.5



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: 50.724 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

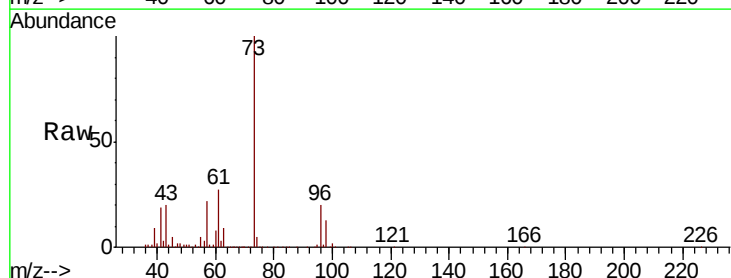
Tgt Ion: 73 Resp: 716915

Ion Ratio Lower Upper

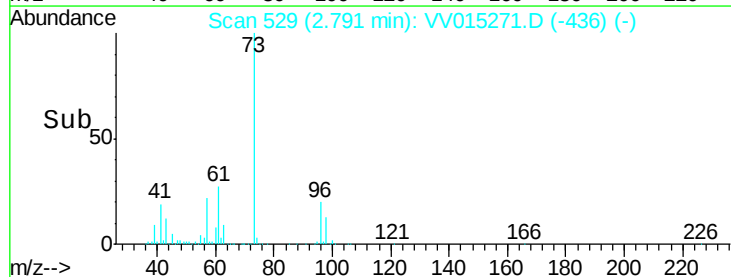
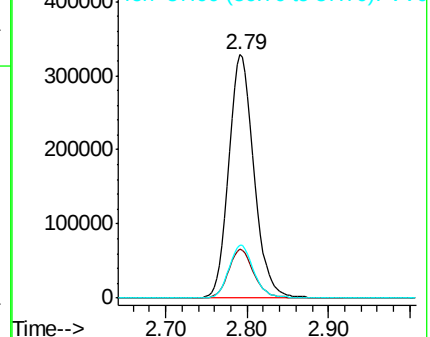
73 100

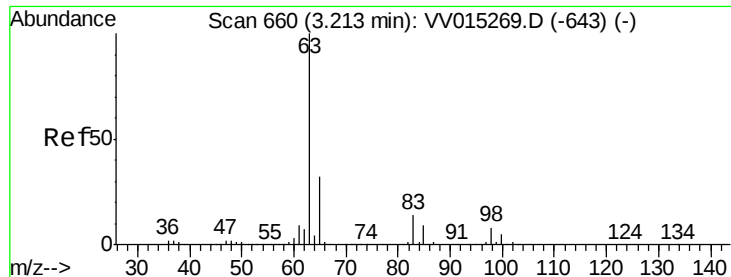
43 19.8 15.7 23.5

57 21.2 16.6 25.0



Abundance Ion 73.00 (72.70 to 73.70): VV0  
Ion 43.00 (42.70 to 43.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 50.264 ug/L

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampled :

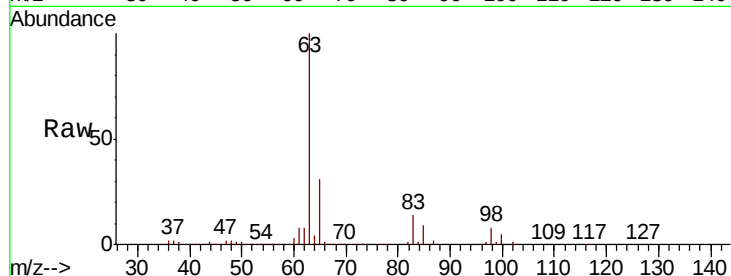
Tot Ion: 63 Resp: 389006

Ion Ratio Lower Upper

63 100

65 31.4 22.2 41.2

83 13.5 9.7 18.1

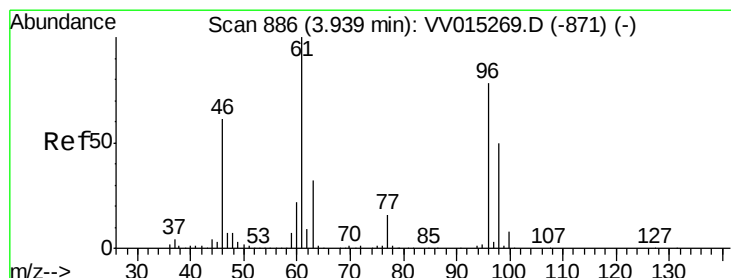
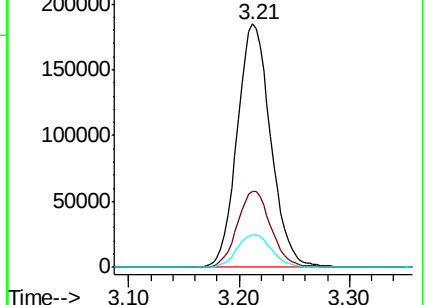
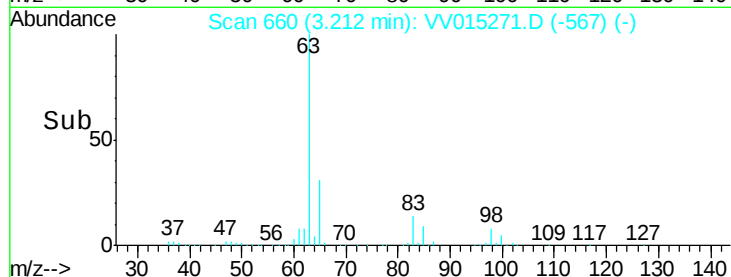


Abundance Ion 63.00 (62.70 to 63.70): VV015271.D (-567) (-)

Ion 65.00 (64.70 to 65.70): VV015271.D (-567) (-)

Ion 83.00 (82.70 to 83.70): VV015271.D (-567) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 50.331 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

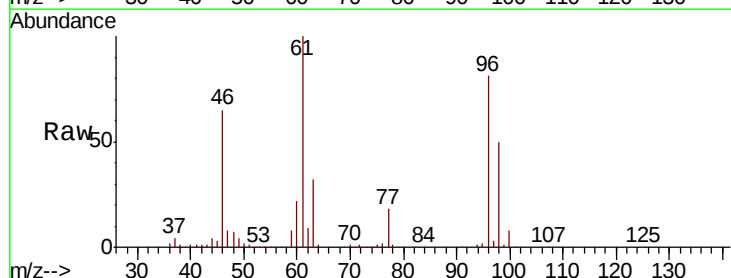
Tgt Ion: 96 Resp: 234859

Ion Ratio Lower Upper

96 100

61 123.9 90.2 167.6

68 0.0 0.1 0.1#

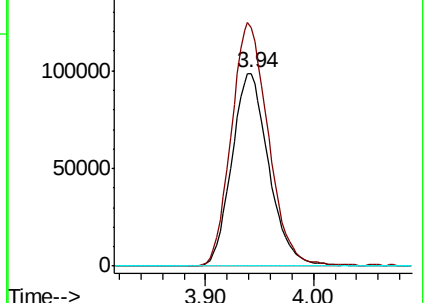
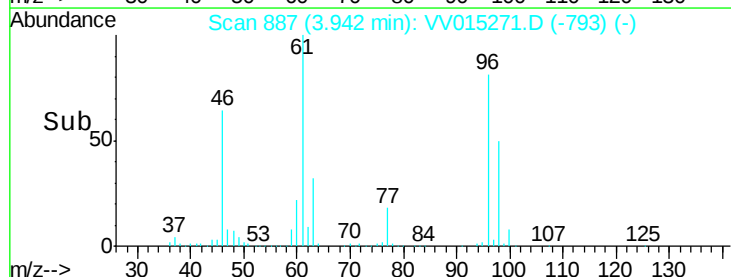


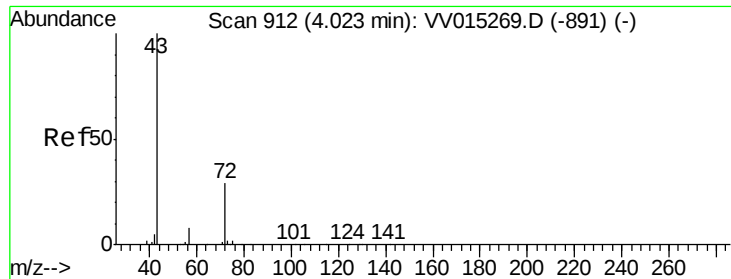
Abundance Ion 96.00 (95.70 to 96.70): VV015271.D (-793) (-)

Ion 61.00 (60.70 to 61.70): VV015271.D (-793) (-)

Ion 68.00 (67.70 to 68.70): VV015271.D (-793) (-)

Time-->

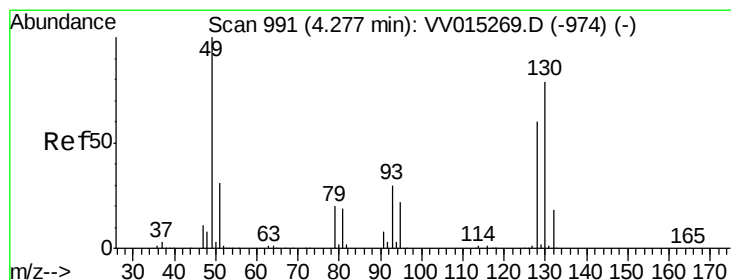
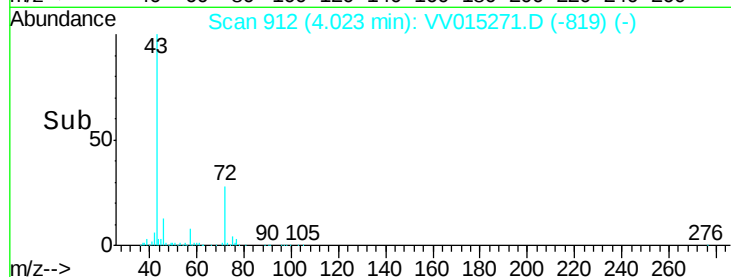
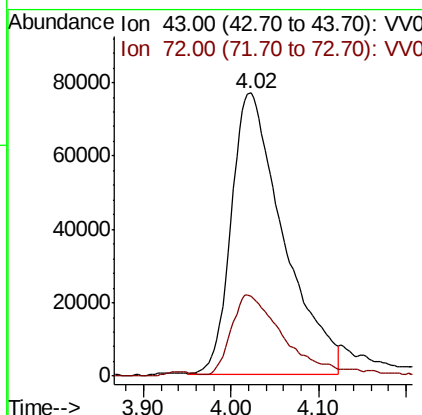
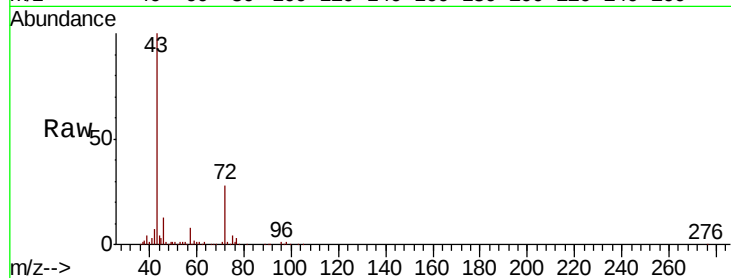




#22  
2-Butanone  
Concen: 99.310 ug/L  
RT: 4.02 min Scan# 912  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

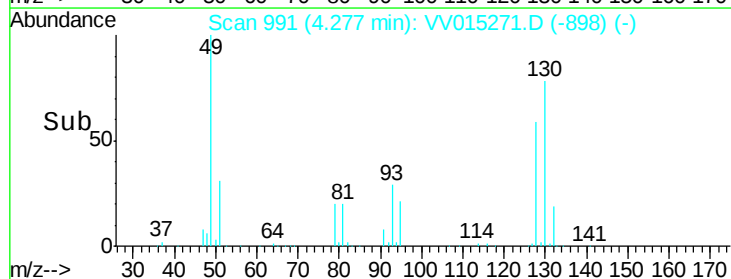
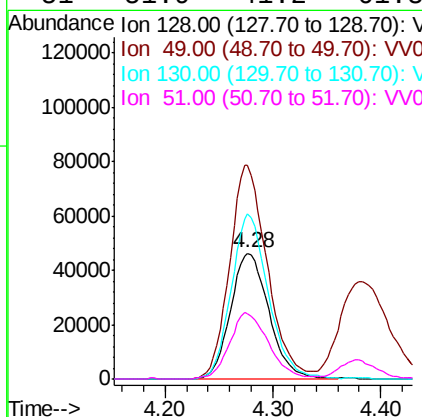
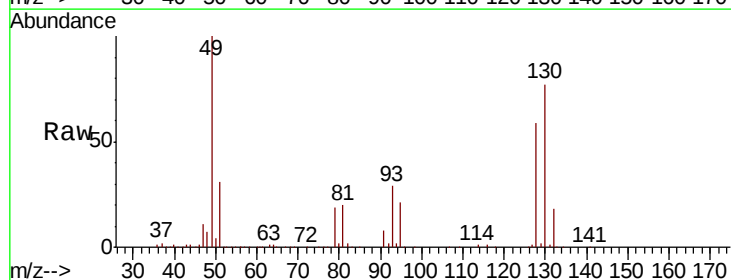
Instrument :  
MSVOA\_V  
ClientSampleId :

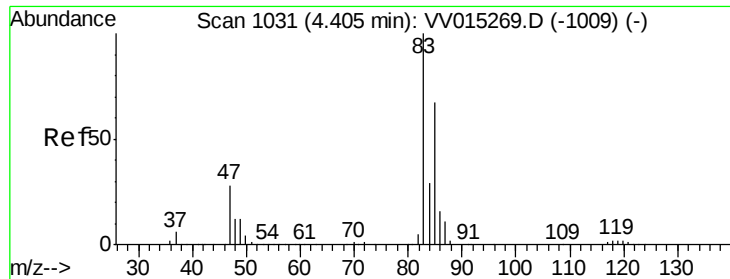
Tot Ion: 43 Resp: 315503  
Ion Ratio Lower Upper  
43 100  
72 26.6 12.4 37.0



#23  
Bromochloromethane  
Concen: 49.818 ug/L  
RT: 4.28 min Scan# 991  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

Tgt Ion:128 Resp: 114437  
Ion Ratio Lower Upper  
128 100  
49 169.6 116.3 216.1  
130 131.2 91.1 169.3  
51 51.9 41.2 61.8

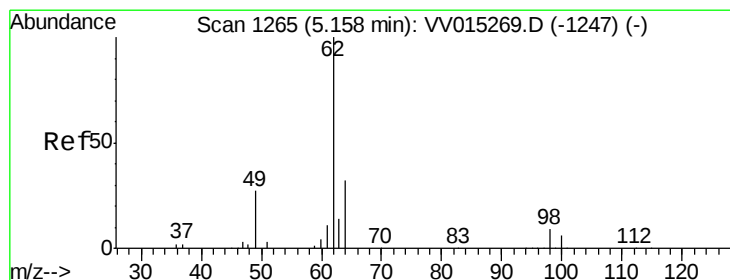
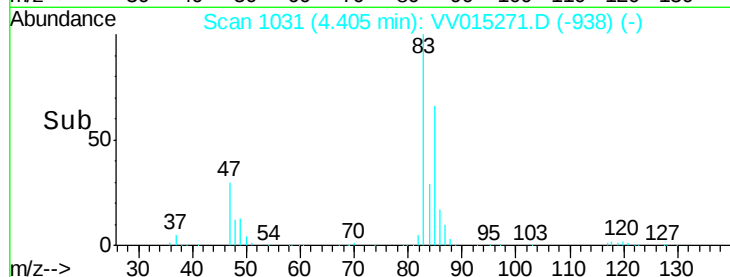
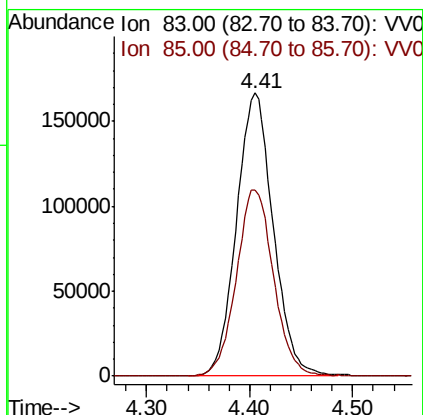
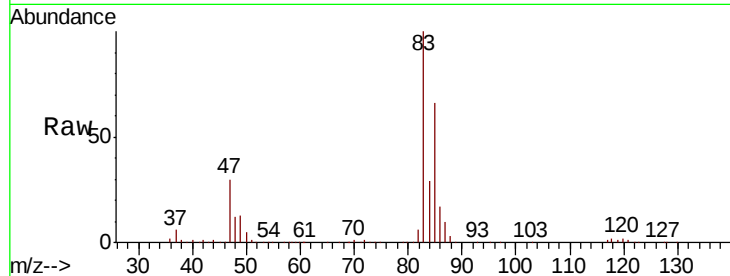




#25  
Chloroform  
Concen: 49.942 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

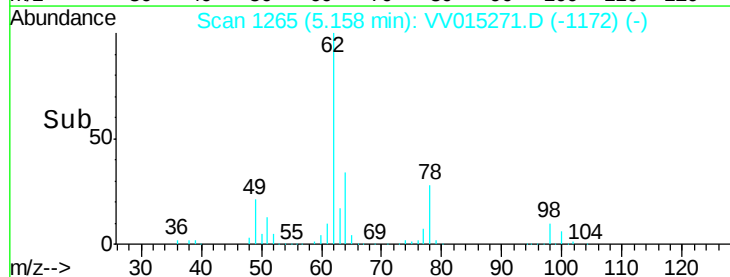
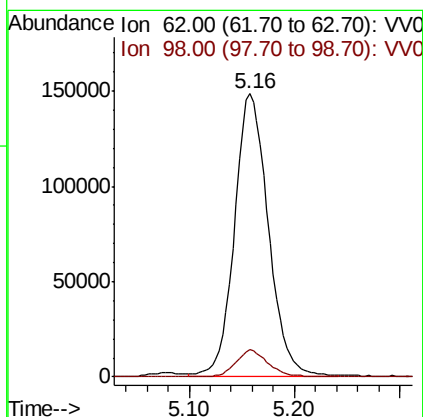
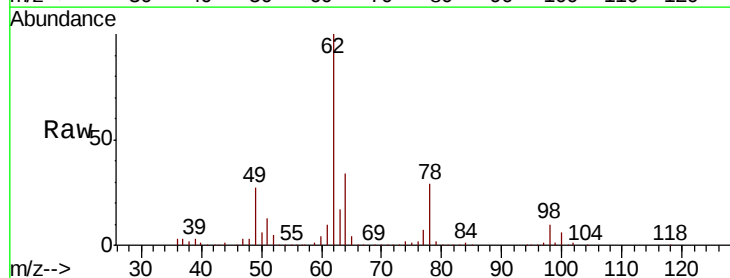
Instrument :  
MSVOA\_V  
ClientSampleId :

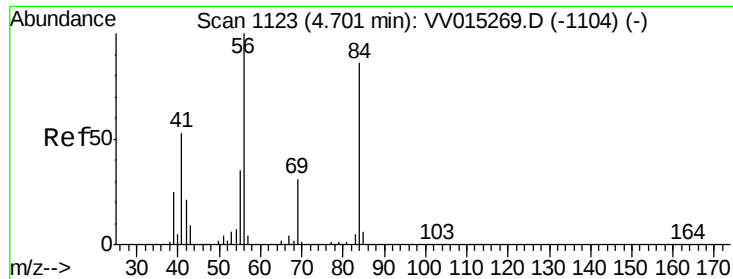
Tot Ion: 83 Resp: 412686  
Ion Ratio Lower Upper  
83 100  
85 65.7 46.6 86.6



#27  
1,2-Dichloroethane  
Concen: 50.197 ug/L  
RT: 5.16 min Scan# 1265  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

Tgt Ion: 62 Resp: 329910  
Ion Ratio Lower Upper  
62 100  
98 9.5 7.4 11.0

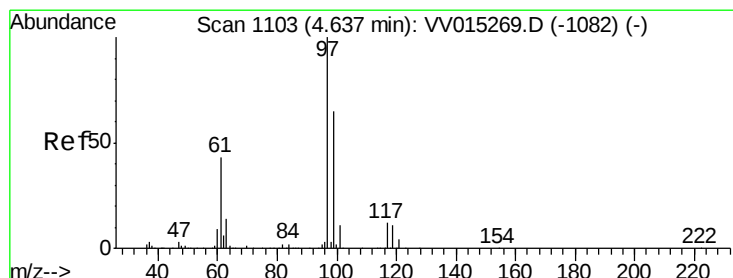
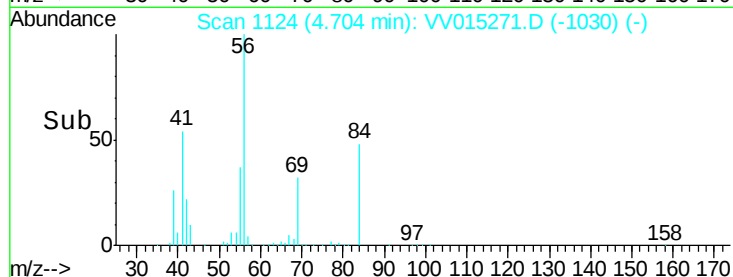
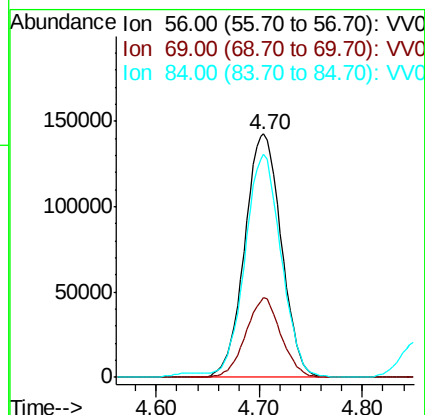
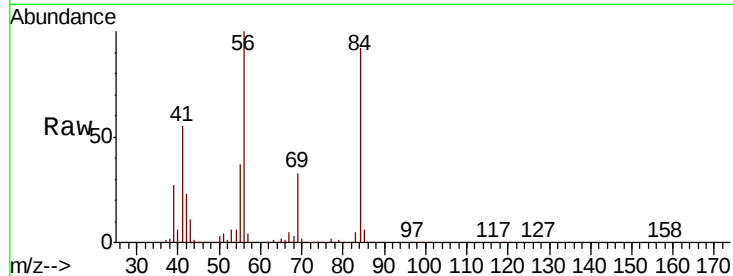




#29  
Cyclohexane  
Concen: 49.527 ug/L  
RT: 4.70 min Scan# 1124  
Delta R.T. 0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

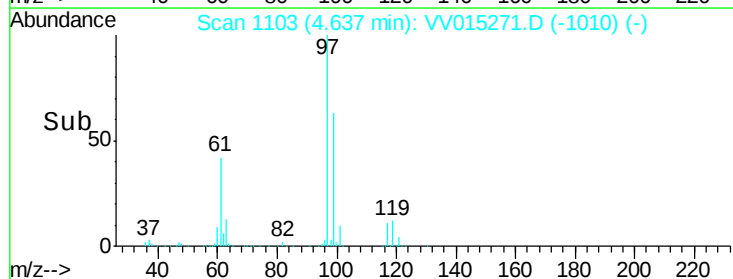
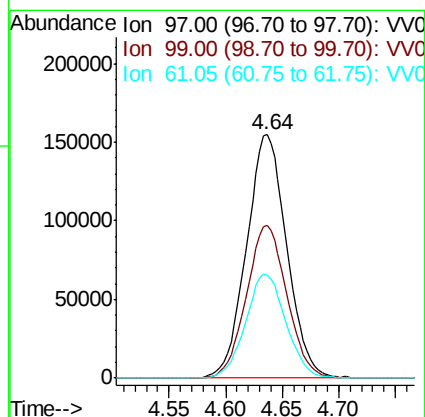
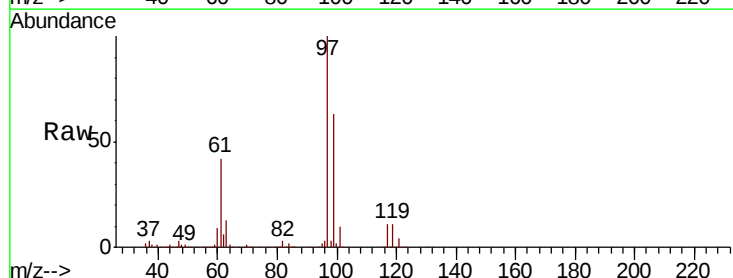
Instrument :  
MSVOA\_V  
ClientSampleId :

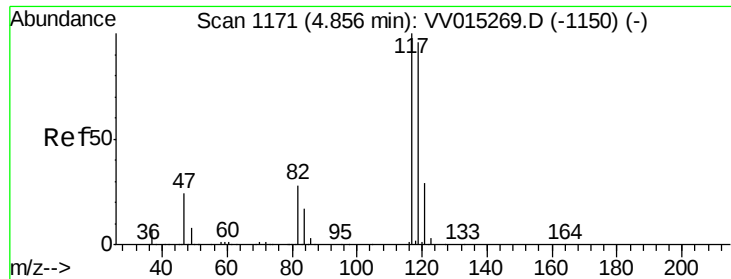
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 31.5  | 25.3  | 37.9  |
| 84      | 90.5  | 72.7  | 109.1 |



#30  
1,1,1-Trichloroethane  
Concen: 50.358 ug/L  
RT: 4.64 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 63.2  | 50.9  | 76.3  |
| 61      | 43.0  | 34.3  | 51.5  |

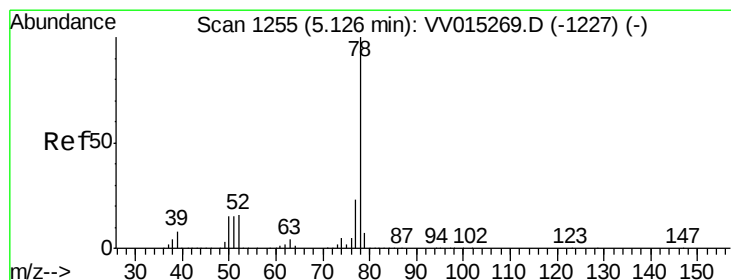
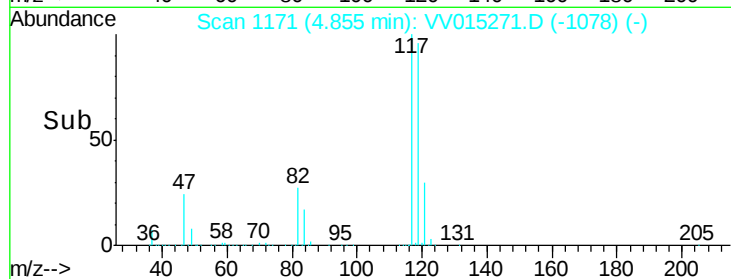
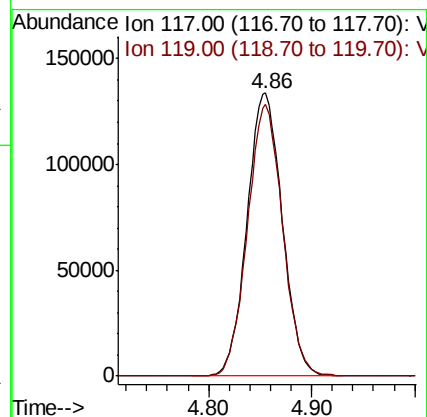
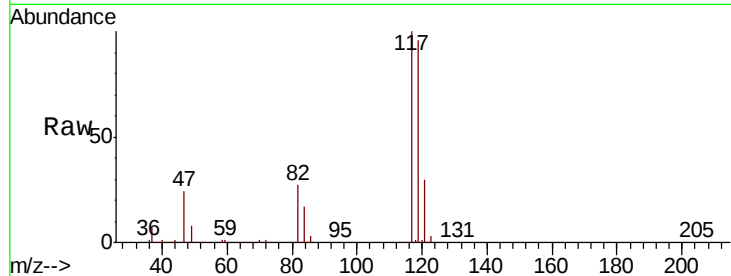




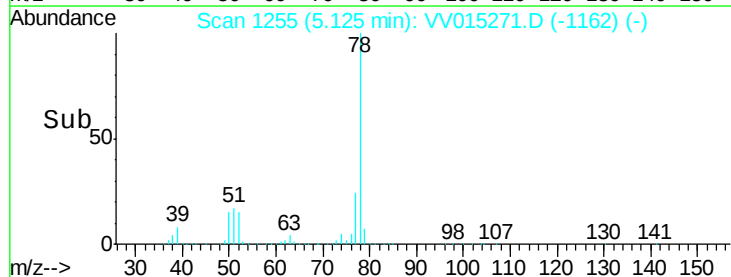
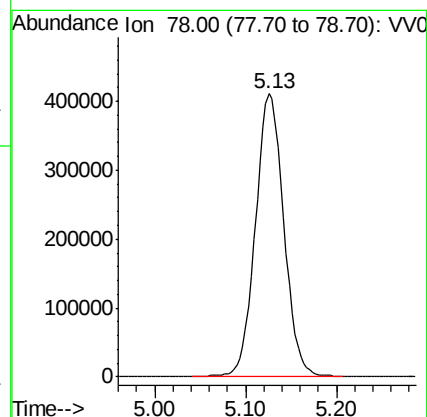
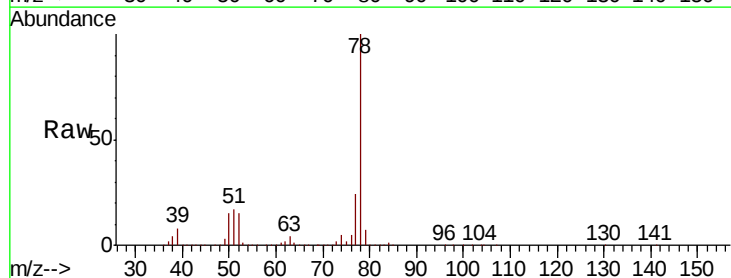
#31  
Carbon tetrachloride  
Concen: 49.328 ug/L  
RT: 4.86 min Scan# 1171  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

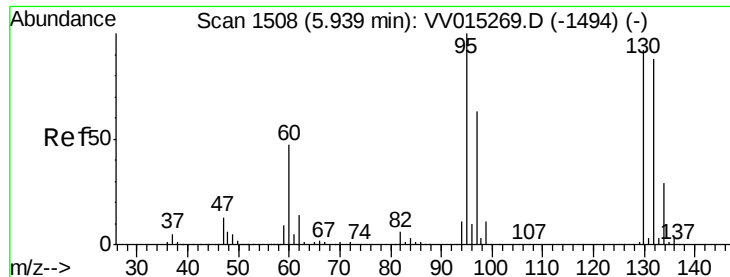
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:117 Resp: 316949  
Ion Ratio Lower Upper  
117 100  
119 95.7 75.8 113.8



#33  
Benzene  
Concen: 50.241 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01  
Tgt Ion: 78 Resp: 889720

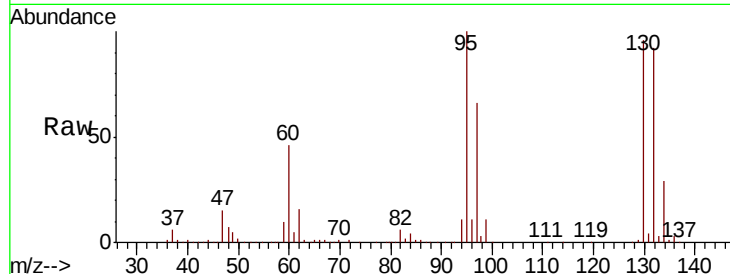




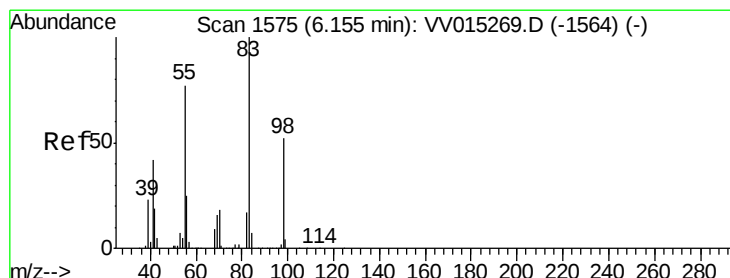
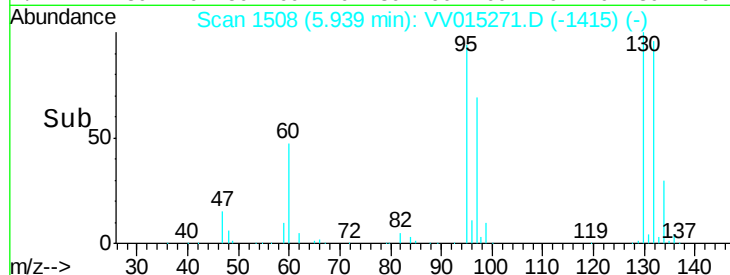
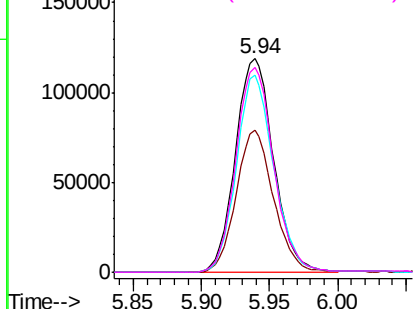
#34  
 Trichloroethene  
 Concen: 48.704 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 95 Resp: 231378  
 Ion Ratio Lower Upper  
 95 100  
 97 66.3 44.0 81.6  
 132 92.5 61.8 114.8  
 130 96.0 64.5 119.9

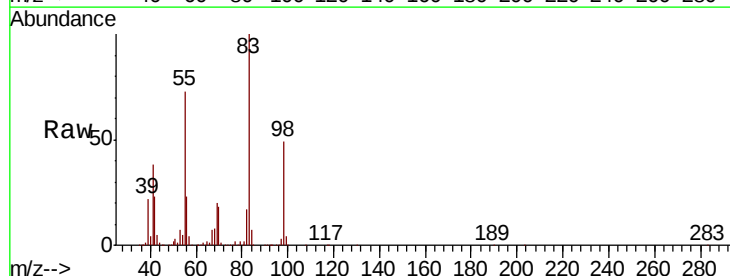


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0

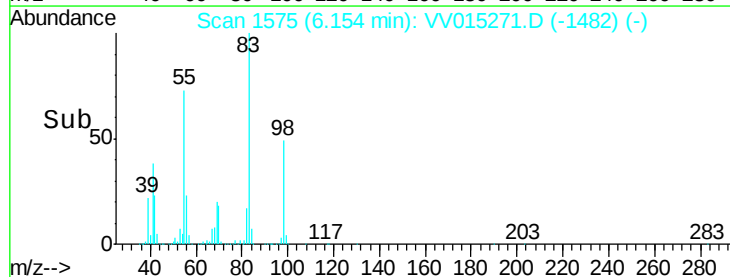
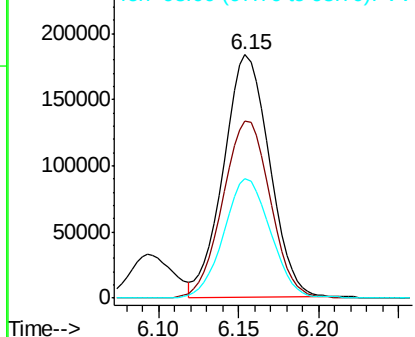


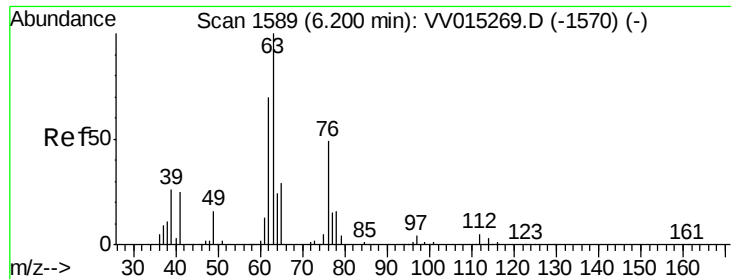
#35  
 Methylcyclohexane  
 Concen: 48.334 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

Tgt Ion: 83 Resp: 360151  
 Ion Ratio Lower Upper  
 83 100  
 55 75.0 59.4 89.2  
 98 50.1 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: 50.339 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

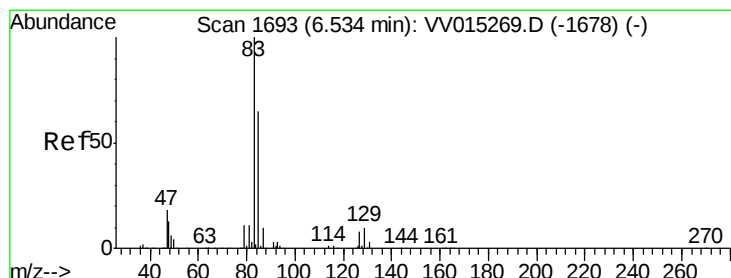
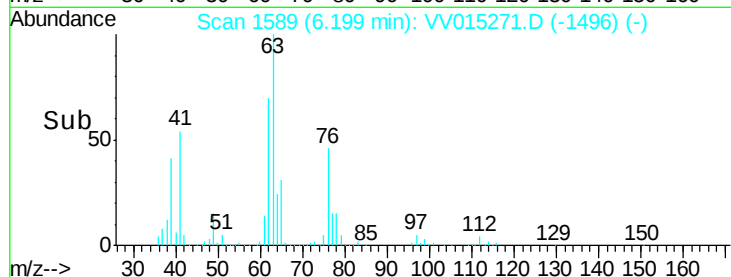
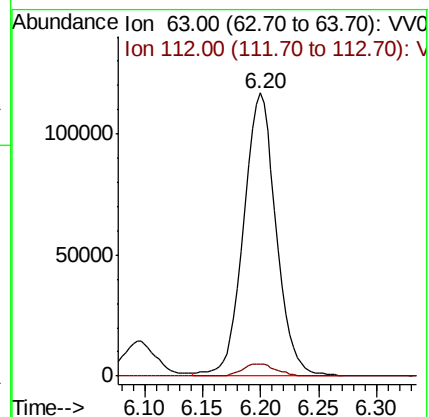
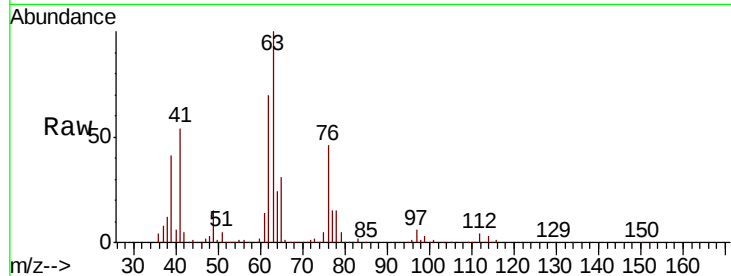
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 63 Resp: 226746

Ion Ratio Lower Upper

63 100

112 4.6 3.7 5.5



#38

Bromodichloromethane

Concen: 50.358 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

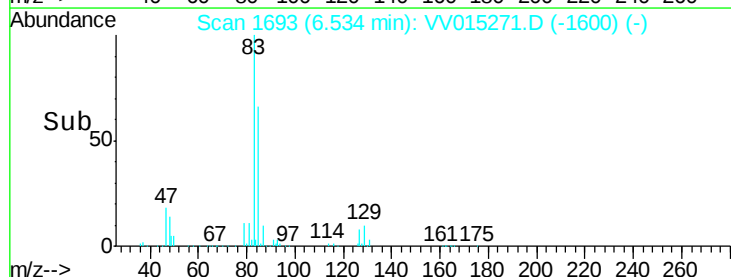
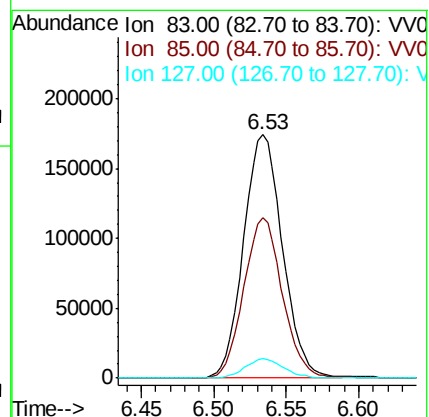
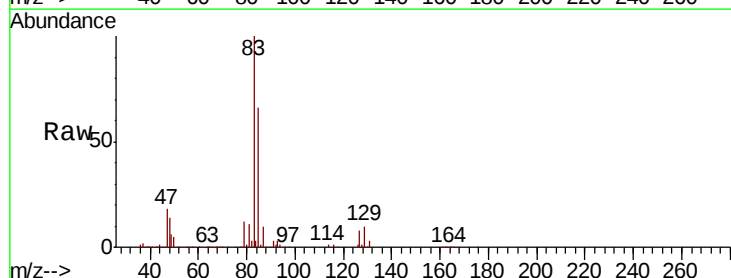
Tgt Ion: 83 Resp: 326195

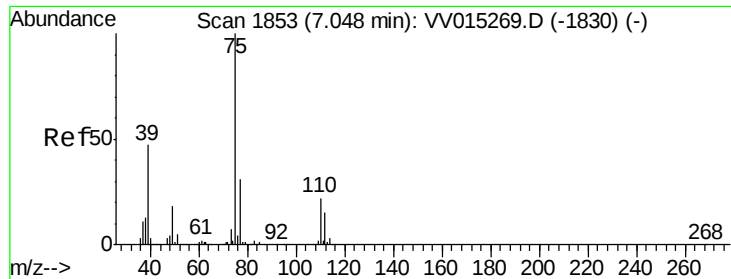
Ion Ratio Lower Upper

83 100

85 66.0 45.1 83.9

127 8.1 6.3 9.5

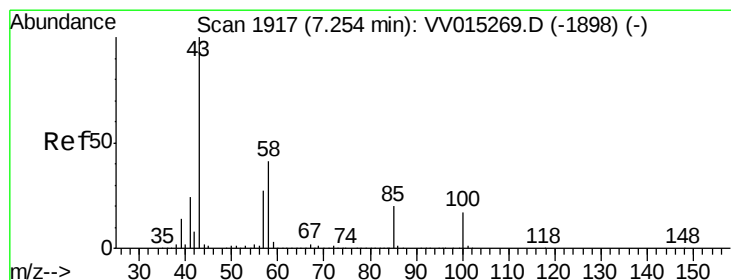
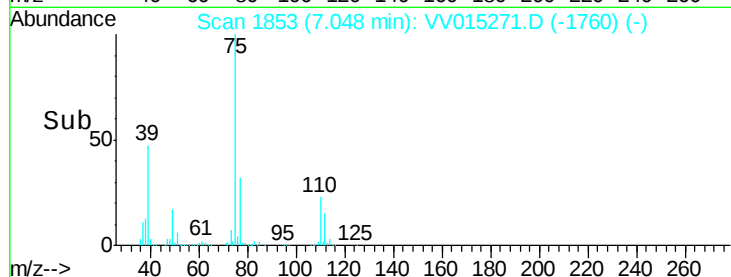
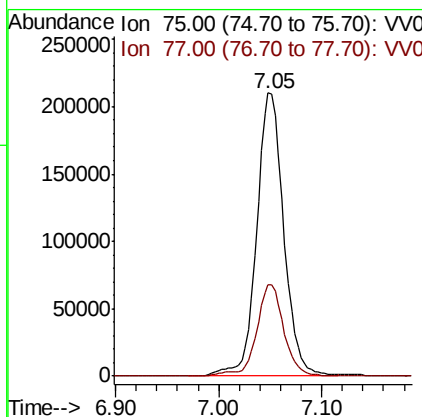
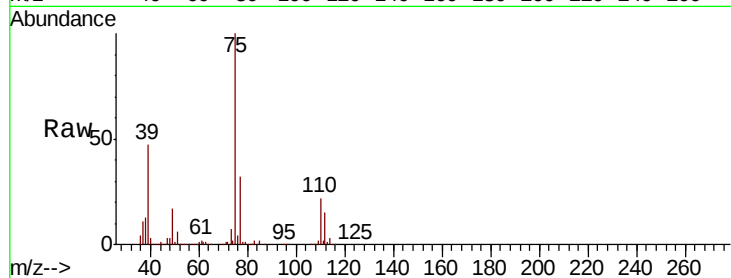




#39  
 cis-1,3-Dichloropropene  
 Concen: 50.211 ug/L  
 RT: 7.05 min Scan# 1853  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

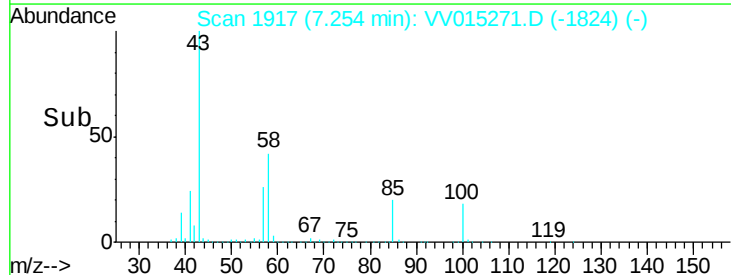
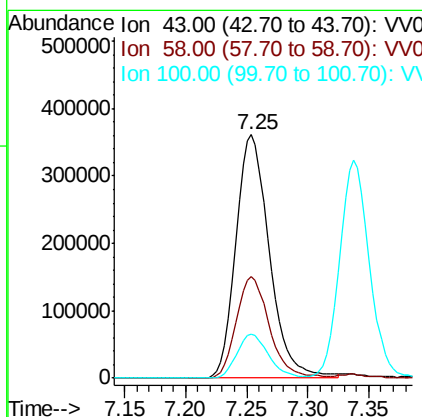
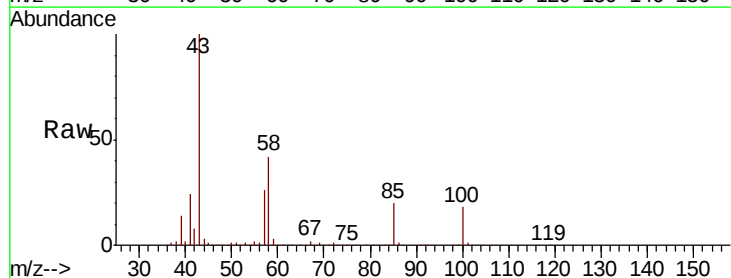
Instrument :  
 MSVOA\_V  
 ClientSampleId :

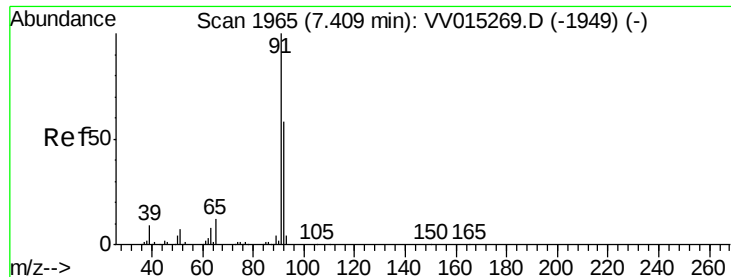
Tot Ion: 75 Resp: 381967  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 21.6 40.0



#40  
 4-Methyl-2-pentanone  
 Concen: 102.086 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

Tgt Ion: 43 Resp: 683714  
 Ion Ratio Lower Upper  
 43 100  
 58 41.3 32.9 49.3  
 100 17.2 13.9 20.9





#42

Toluene

Concen: 51.640 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

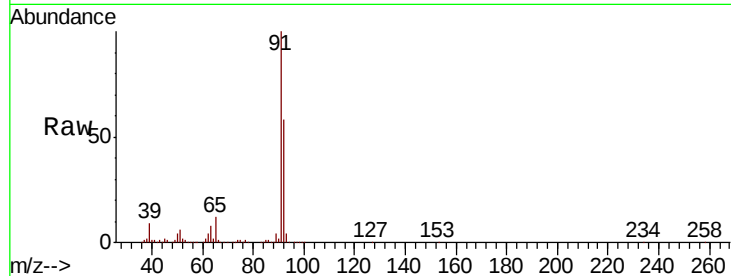
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 1026614

Ion Ratio Lower Upper

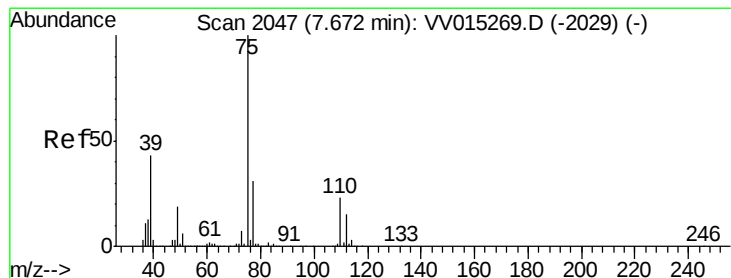
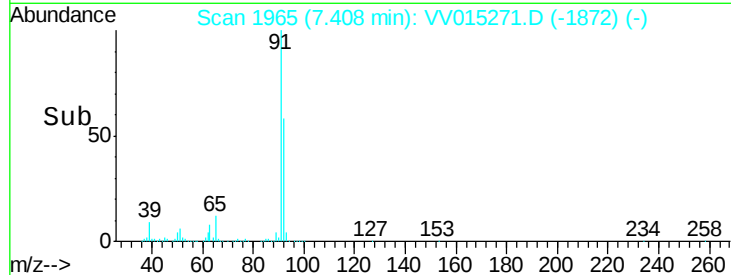
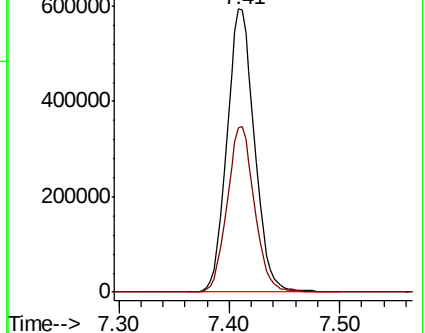
91 100

92 58.1 40.3 74.9



Abundance Ion 91.00 (90.70 to 91.70): VV015271.D (-1872) (-)

Ion 92.00 (91.70 to 92.70): VV015271.D (-1872) (-)



#44

trans-1,3-Dichloropropene

Concen: 50.255 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.00 min

Lab File: VV015271.D

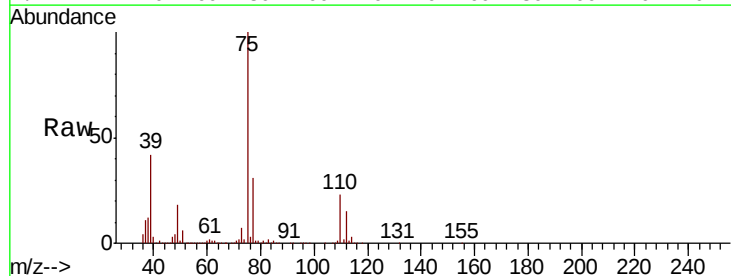
Acq: 30 Mar 2020 14:01

Tgt Ion: 75 Resp: 375640

Ion Ratio Lower Upper

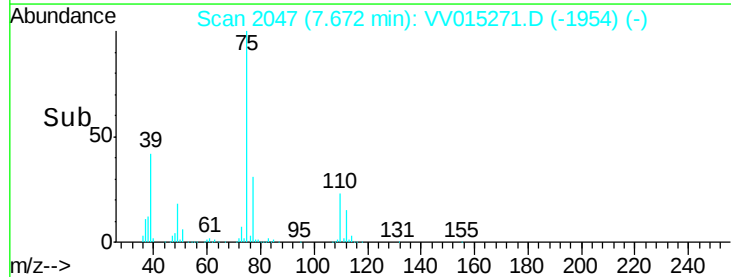
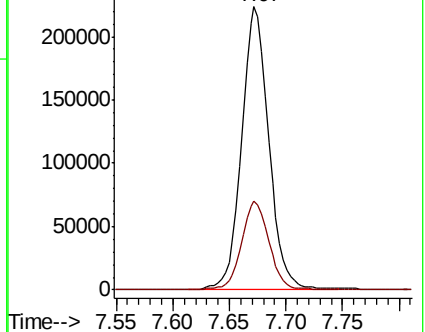
75 100

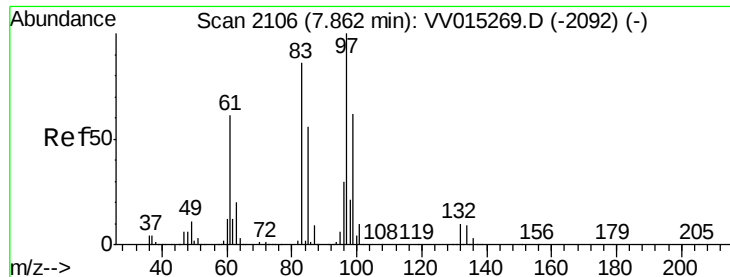
77 31.2 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV015271.D (-1954) (-)

Ion 77.00 (76.70 to 77.70): VV015271.D (-1954) (-)

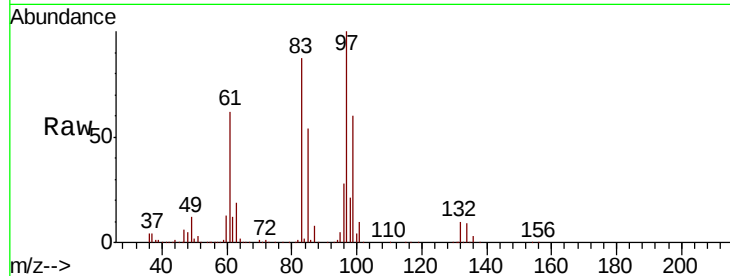




#45  
 1,1,2-Trichloroethane  
 Concen: 50.906 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

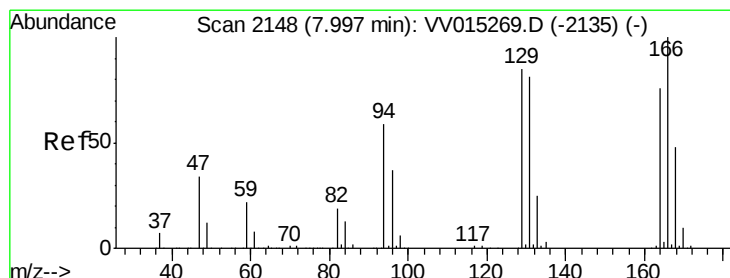
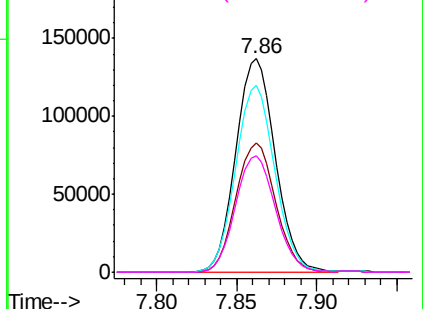
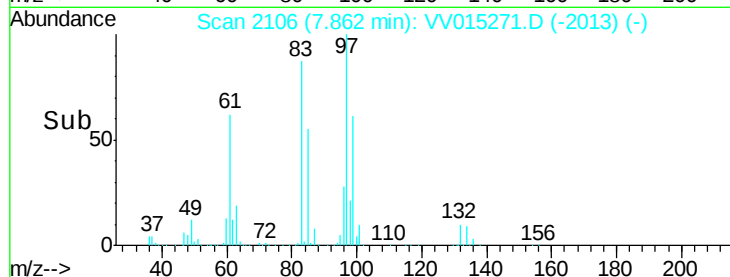
Instrument :  
 MSVOA\_V  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 231004 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 60.5  | 43.6  | 81.0   |
| 83       | 87.4  | 60.0  | 111.4  |
| 85       | 54.5  | 39.3  | 72.9   |



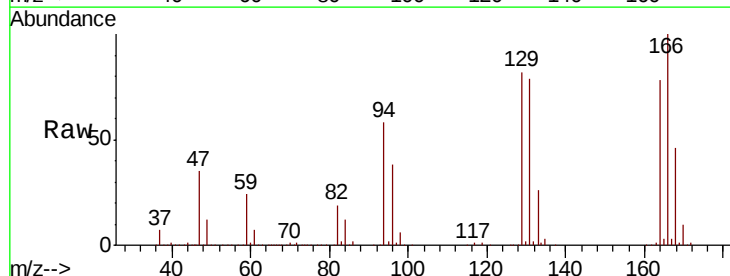
Abundance

Ion 97.00 (96.70 to 97.70): VV015271.D (-2055) (-)



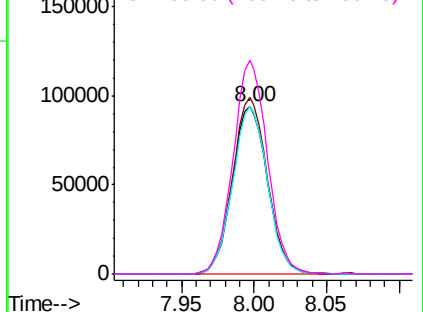
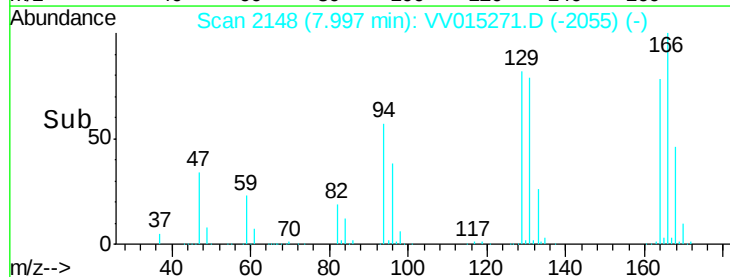
#46  
 Tetrachloroethene  
 Concen: 50.291 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

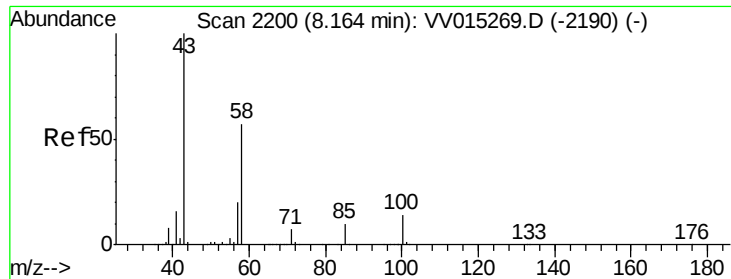
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 158092 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 105.3 | 77.8  | 144.4  |
| 131      | 100.3 | 73.9  | 137.3  |
| 166      | 127.7 | 91.7  | 170.3  |



Abundance

Ion 164.00 (163.70 to 164.70): VV015271.D (-2055) (-)

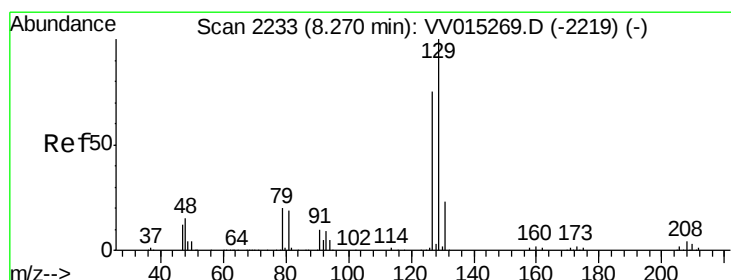
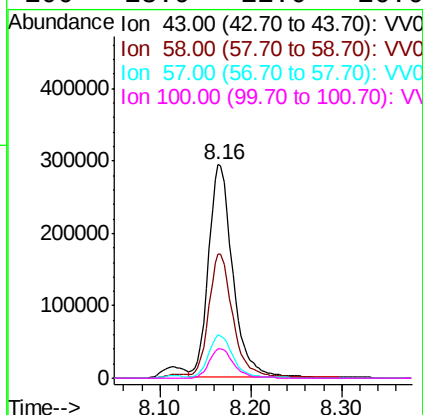
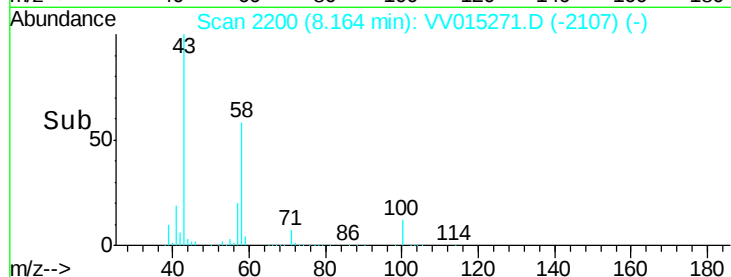
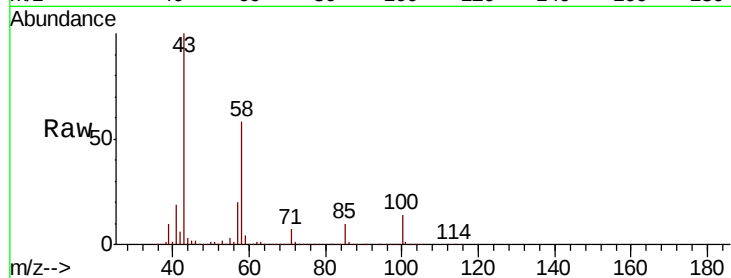




#48  
2-Hexanone  
Concen: 106.125 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

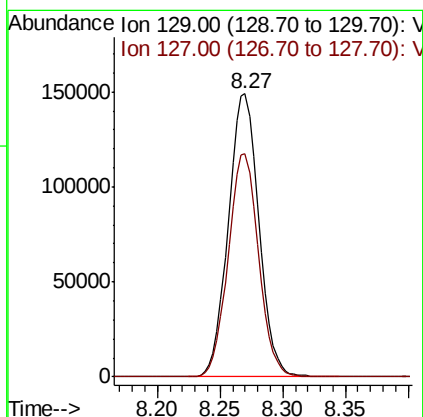
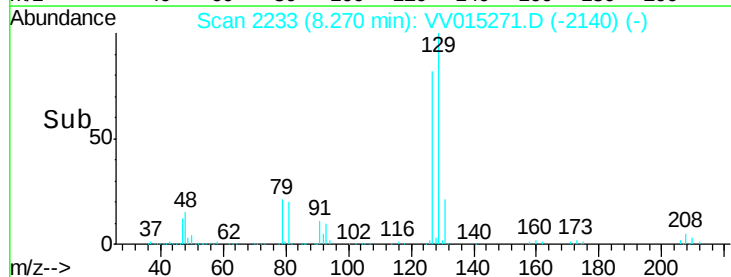
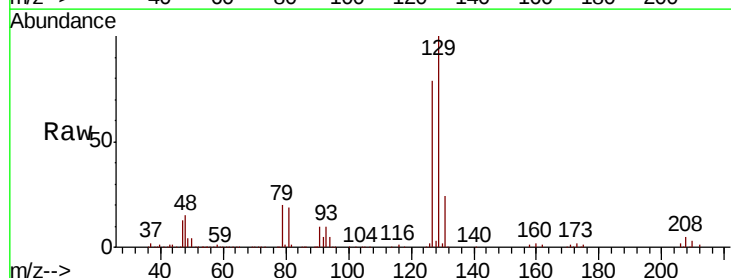
Instrument :  
MSVOA\_V  
ClientSampleId :

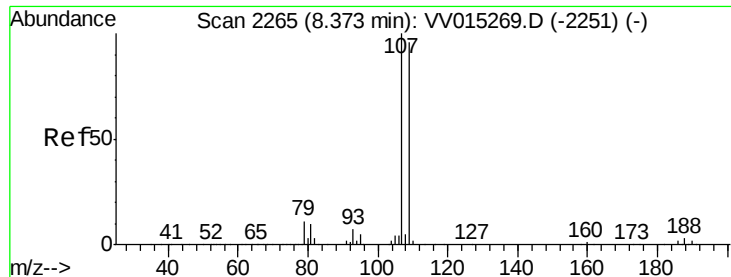
Tot Ion: 43 Resp: 545263  
Ion Ratio Lower Upper  
43 100  
58 57.8 47.0 70.6  
57 20.8 16.2 24.2  
100 13.9 11.0 16.6



#49  
Dibromochloromethane  
Concen: 50.822 ug/L  
RT: 8.27 min Scan# 2233  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

Tgt Ion: 129 Resp: 252046  
Ion Ratio Lower Upper  
129 100  
127 78.7 52.8 98.2

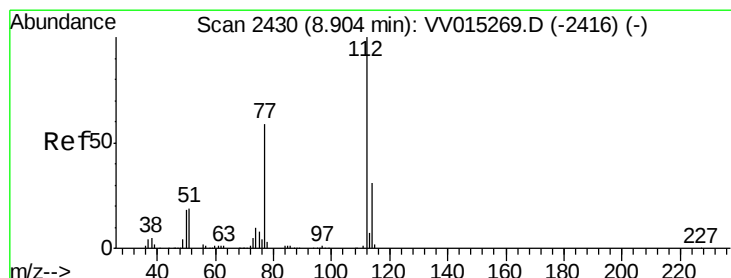
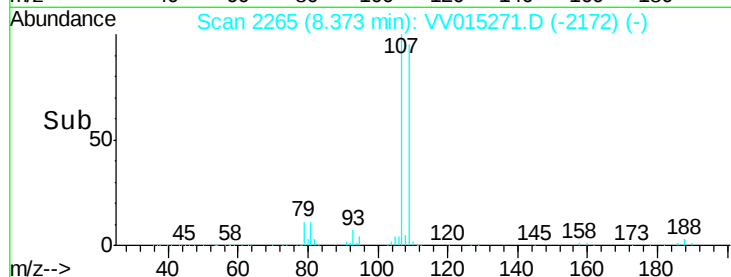
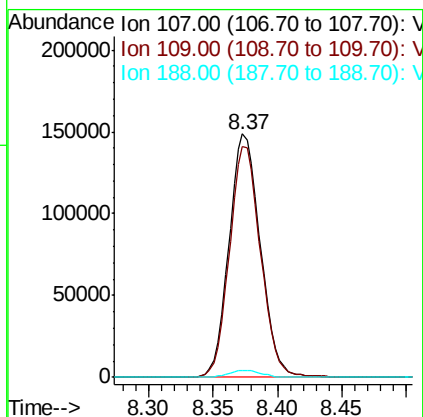
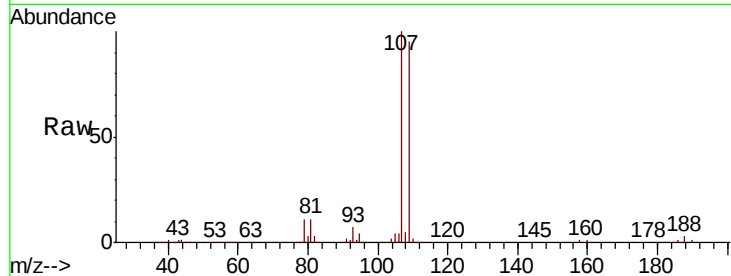




#50  
1,2-Dibromoethane  
Concen: 50.805 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

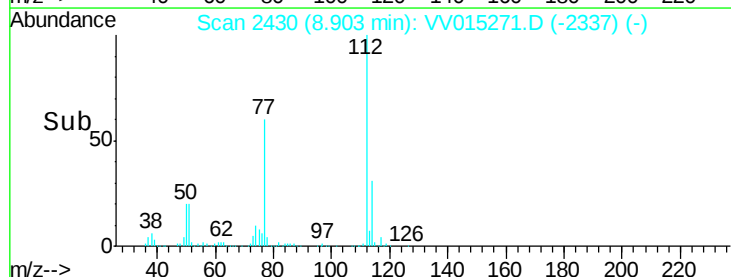
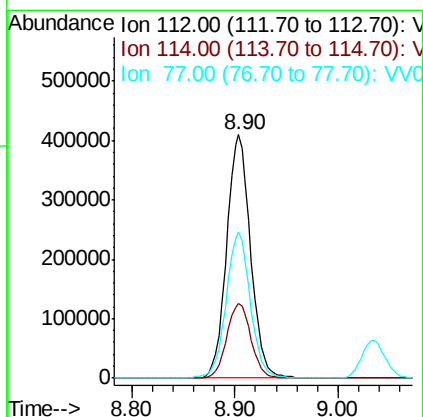
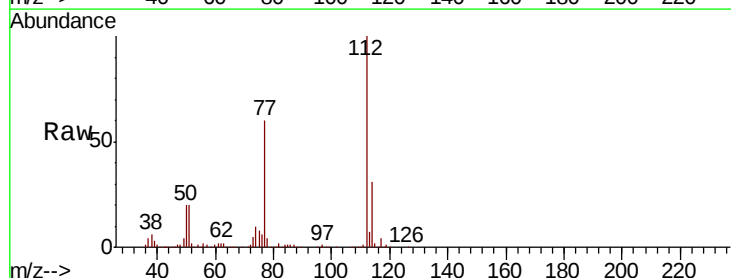
Instrument :  
MSVOA\_V  
ClientSampleId :

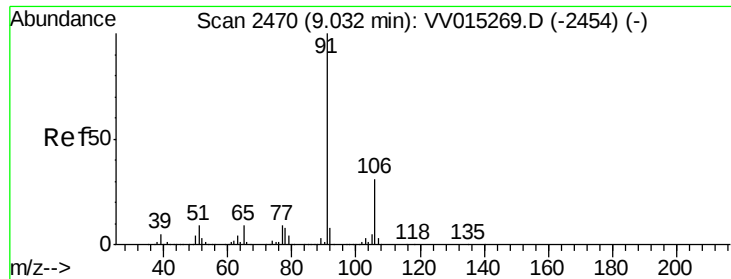
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 95.1  | 67.1  | 124.7 |
| 188     | 3.0   | 2.5   | 3.7   |



#51  
Chlorobenzene  
Concen: 50.990 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. -0.00 min  
Lab File: VV015271.D  
Acq: 30 Mar 2020 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 30.5  | 21.7  | 40.3  |
| 77      | 59.9  | 47.9  | 71.9  |





#52

Ethylbenzene

Concen: 51.307 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

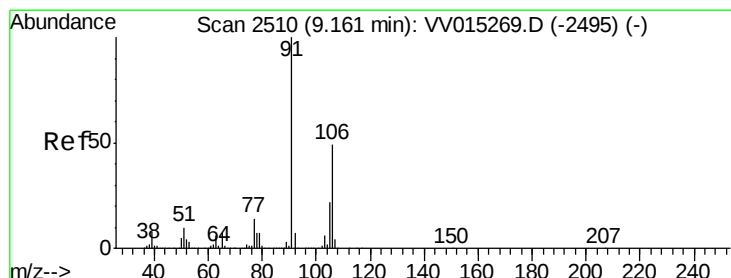
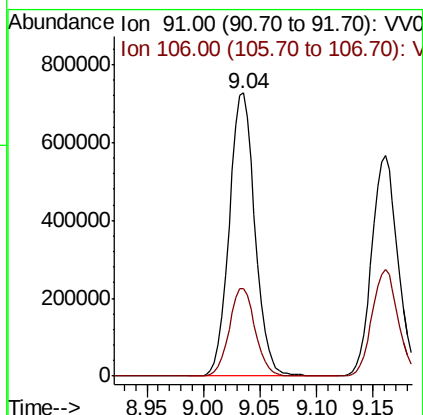
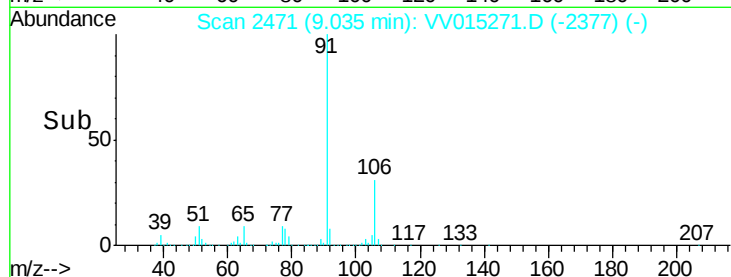
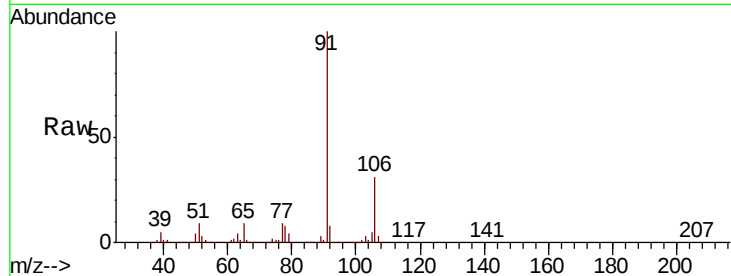
ClientSampleId :

Tot Ion: 91 Resp: 1150207

Ion Ratio Lower Upper

91 100

106 31.1 22.0 40.8



#53

m,p-Xylene

Concen: 51.361 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. -0.00 min

Lab File: VV015271.D

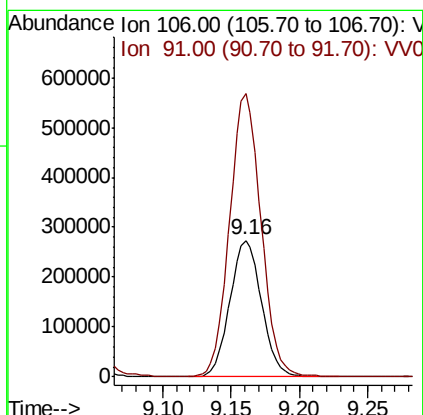
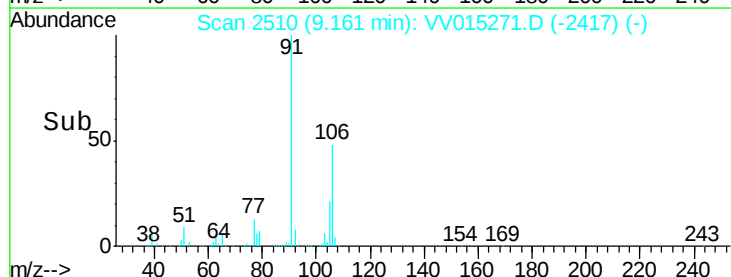
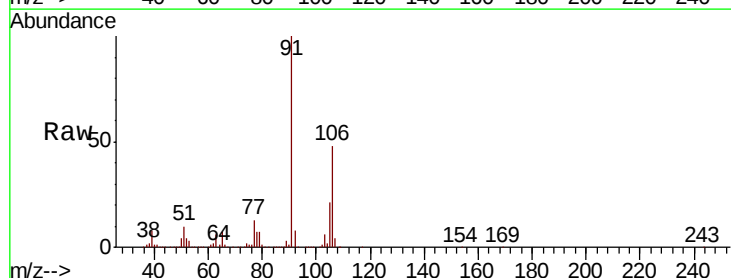
Acq: 30 Mar 2020 14:01

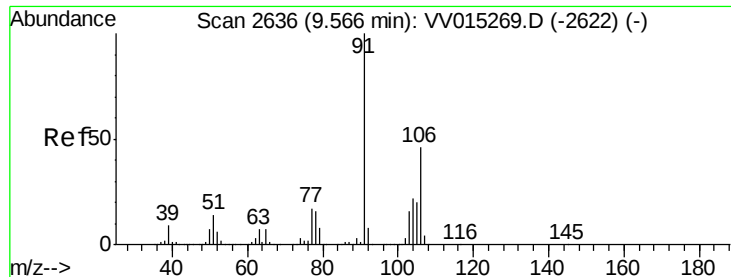
Tgt Ion: 106 Resp: 439180

Ion Ratio Lower Upper

106 100

91 207.9 143.1 265.9





#54

o-xylene

Concen: 52.155 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

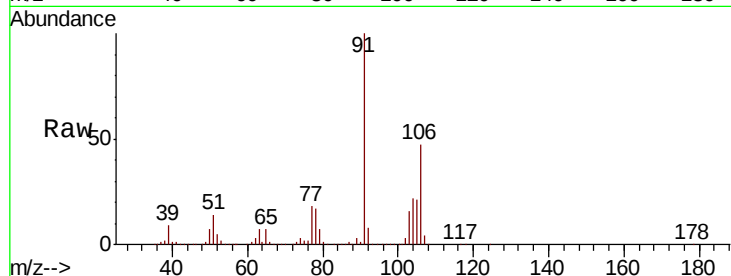
ClientSampled :

Tot Ion:106 Resp: 443652

Ion Ratio Lower Upper

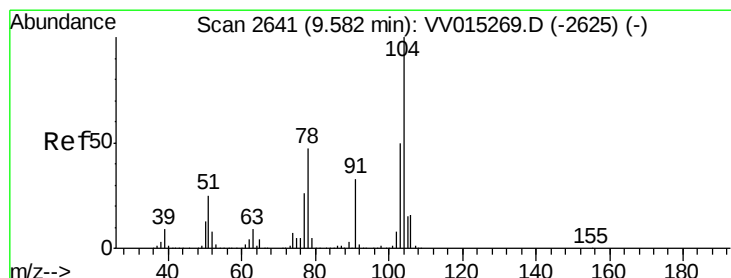
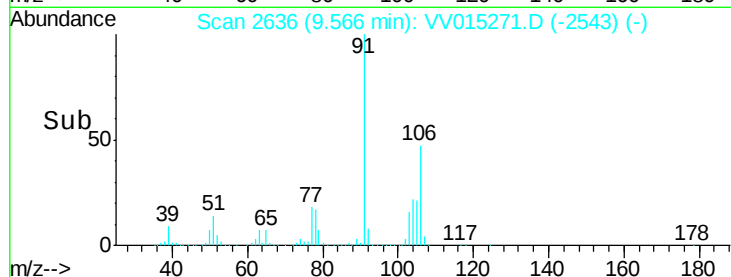
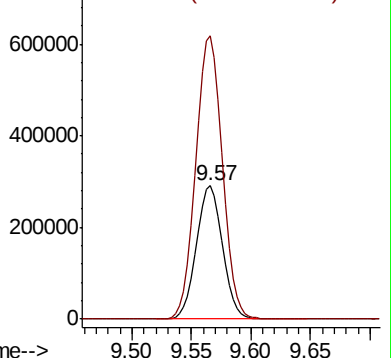
106 100

91 212.0 153.4 285.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 52.312 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV015271.D

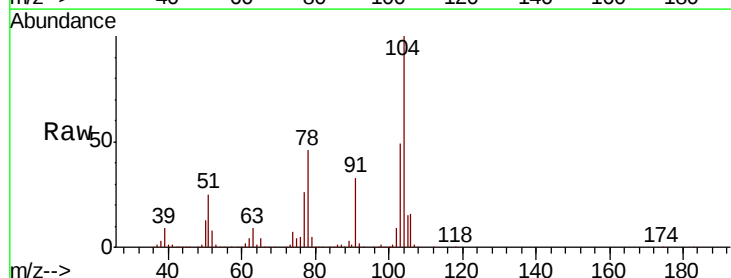
Acq: 30 Mar 2020 14:01

Tgt Ion:104 Resp: 759333

Ion Ratio Lower Upper

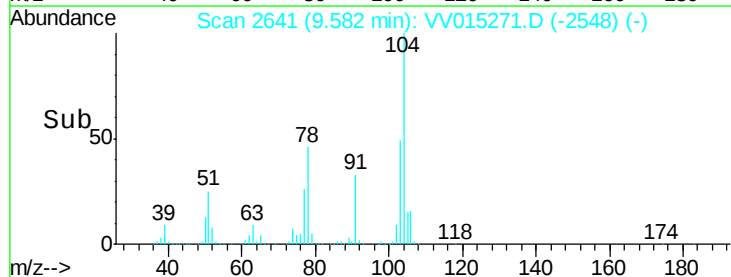
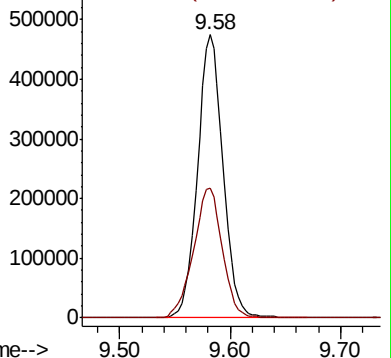
104 100

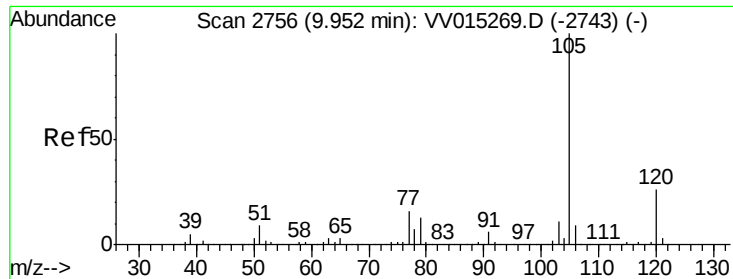
78 45.8 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 51.516 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampled :

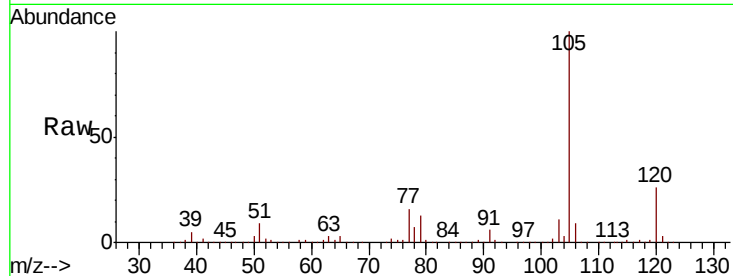
Tot Ion:105 Resp: 1153520

Ion Ratio Lower Upper

105 100

120 26.1 20.7 31.1

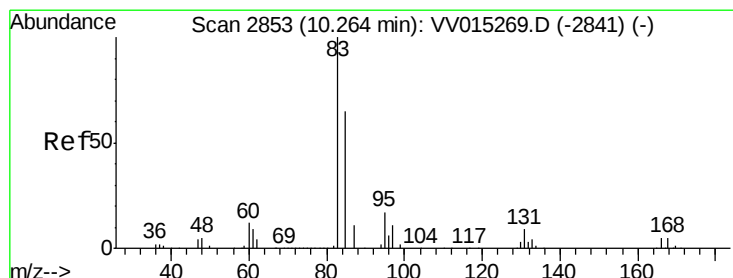
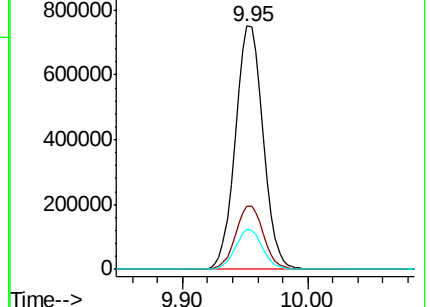
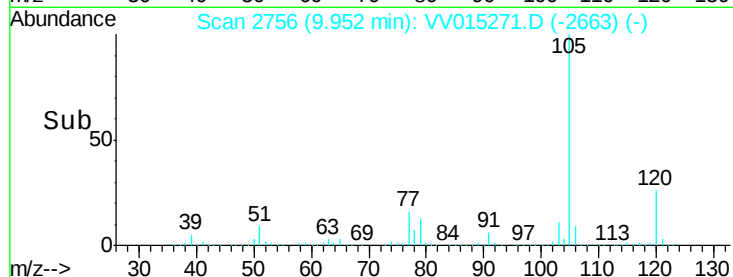
77 15.9 12.8 19.2



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: 52.333 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

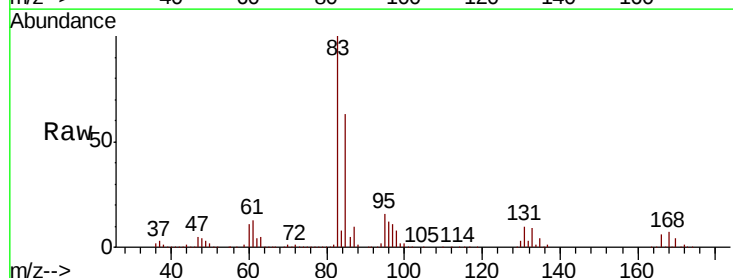
Tgt Ion: 83 Resp: 394117

Ion Ratio Lower Upper

83 100

85 62.6 46.3 85.9

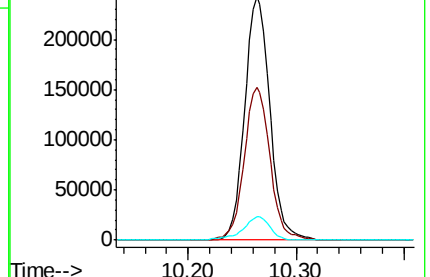
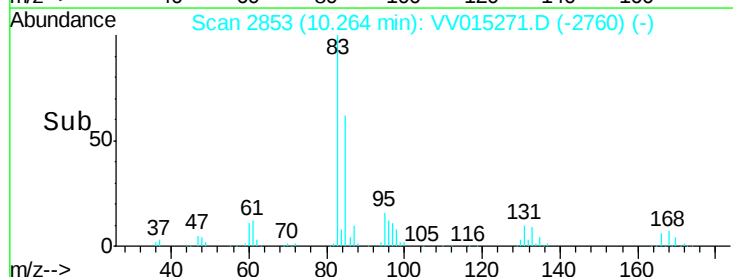
131 9.6 7.6 11.4

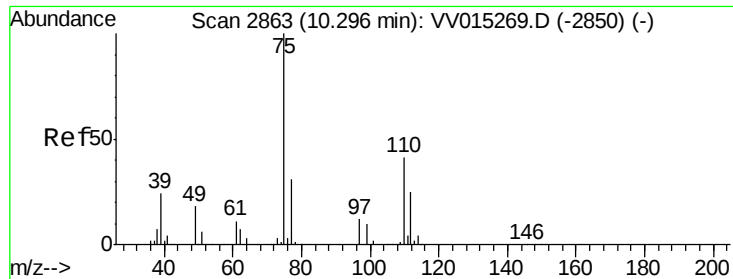


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

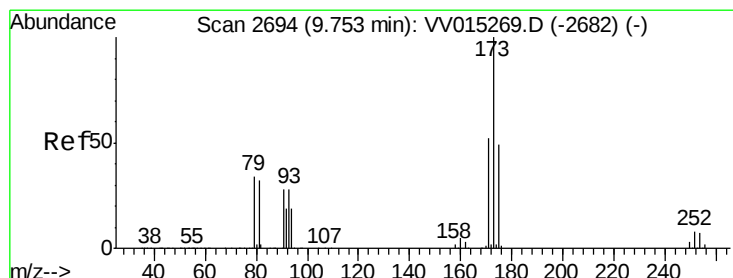
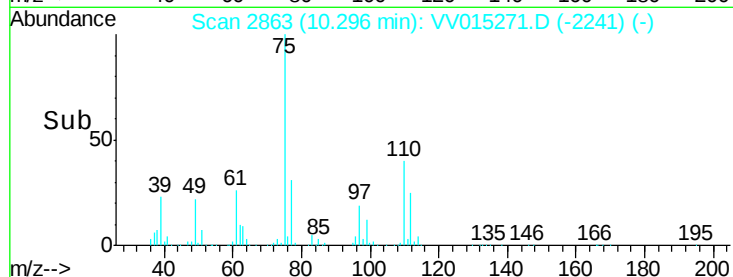
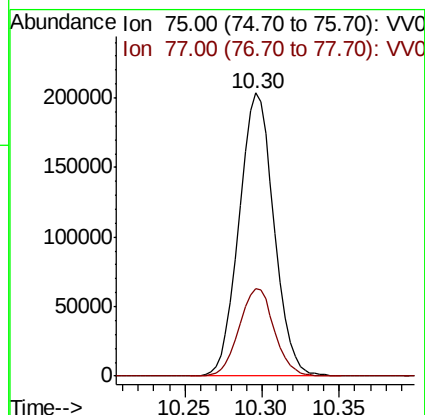
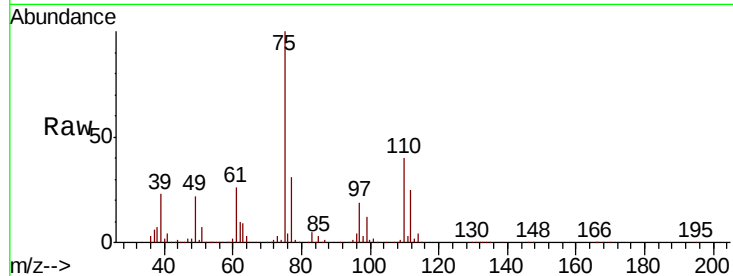




#59  
 1,2,3-Trichloropropane  
 Concen: 51.193 ug/L  
 RT: 10.30 min Scan# 2863  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

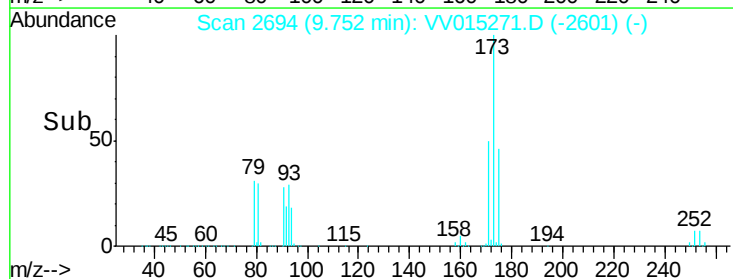
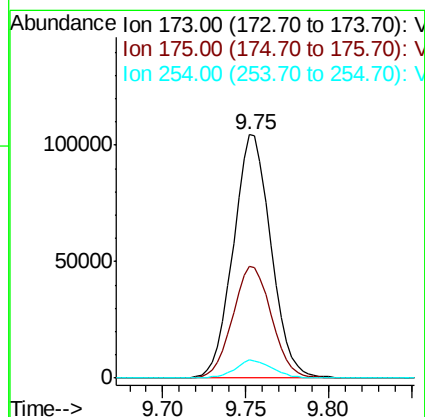
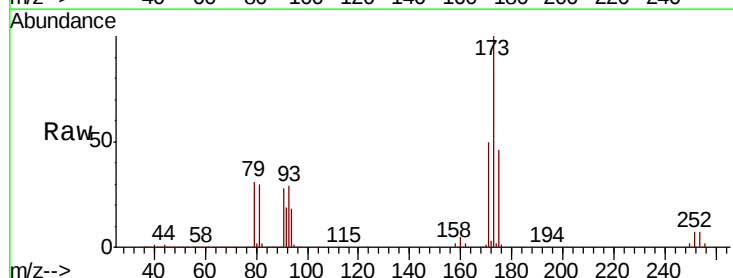
Instrument :  
 MSVOA\_V  
 ClientSampleId :

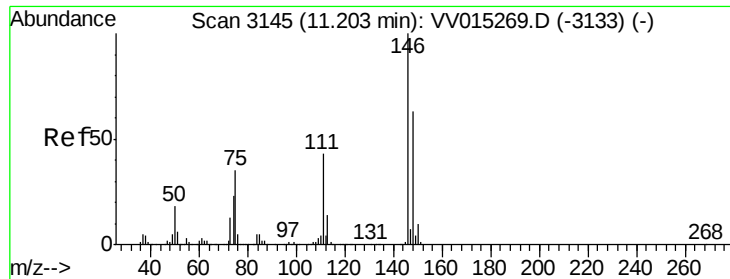
Tot Ion: 75 Resp: 319044  
 Ion Ratio Lower Upper  
 75 100  
 77 31.2 24.7 37.1



#61  
 Bromoform  
 Concen: 52.498 ug/L  
 RT: 9.75 min Scan# 2694  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

Tgt Ion: 173 Resp: 165703  
 Ion Ratio Lower Upper  
 173 100  
 175 47.1 39.4 59.0  
 254 7.4 5.6 8.4

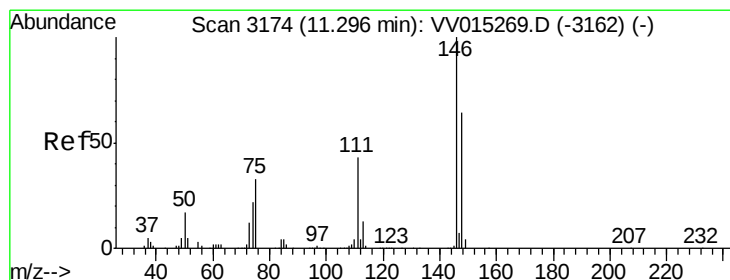
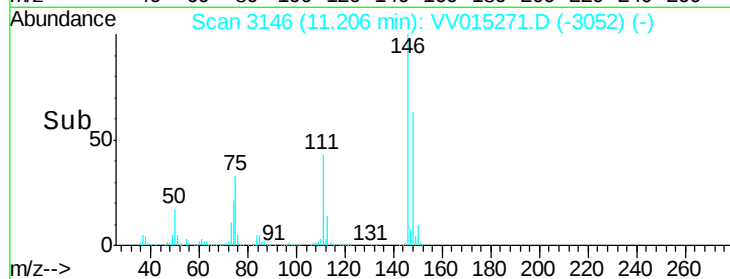
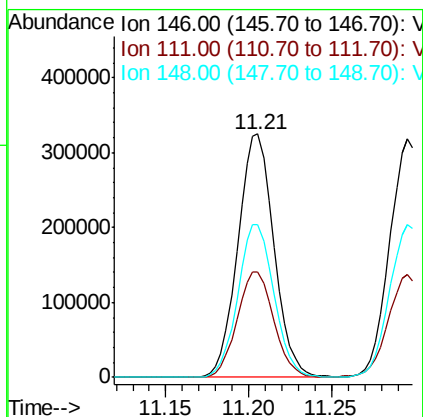
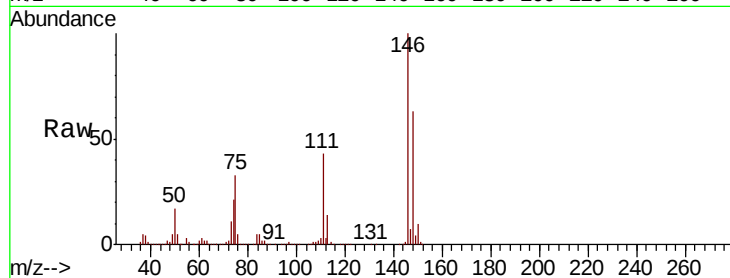




#62  
 1,3-Dichlorobenzene  
 Concen: 50.916 ug/L  
 RT: 11.21 min Scan# 3146  
 Delta R.T. 0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

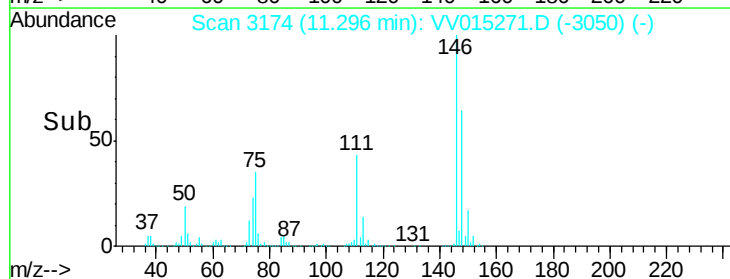
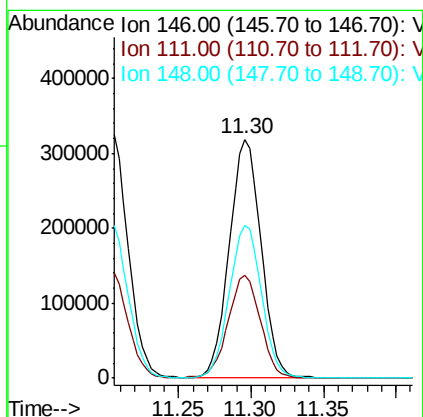
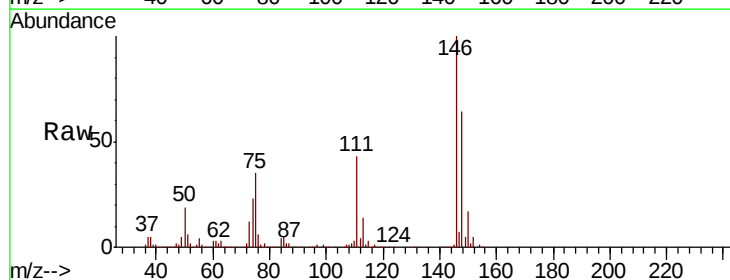
Instrument :  
 MSVOA\_V  
 ClientSampleId :

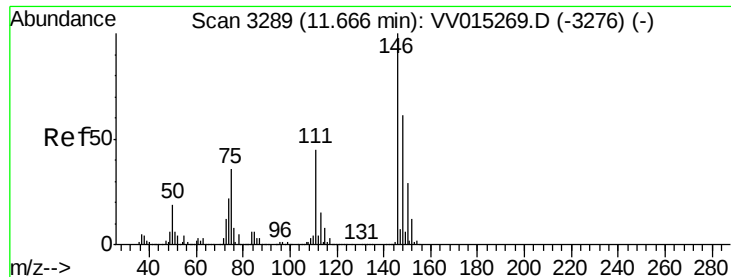
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.3  | 30.4  | 56.4  |
| 148     | 62.7  | 43.9  | 81.5  |



#63  
 1,4-Dichlorobenzene  
 Concen: 49.320 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.9  | 30.5  | 56.7  |
| 148     | 64.0  | 45.0  | 83.6  |

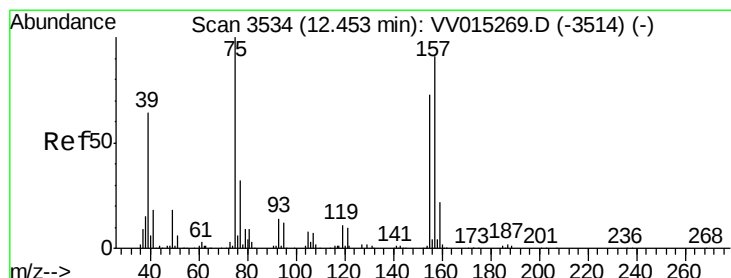
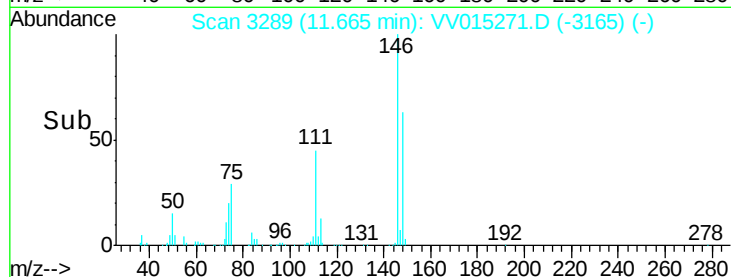
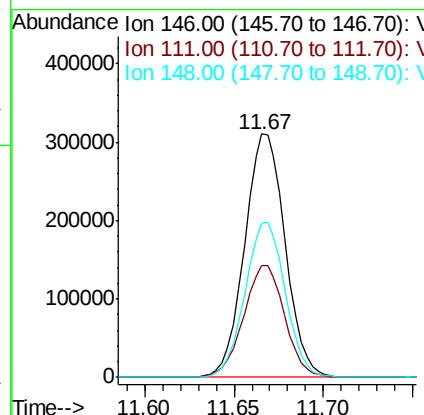
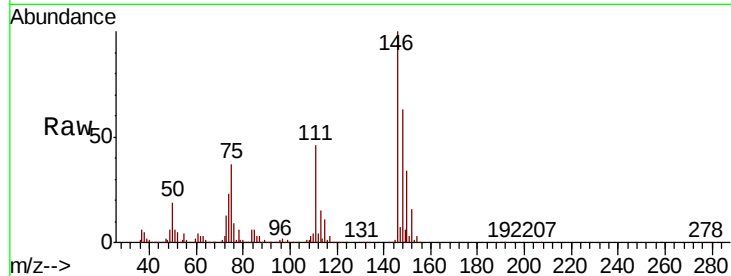




#65  
 1,2-Dichlorobenzene  
 Concen: 50.460 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

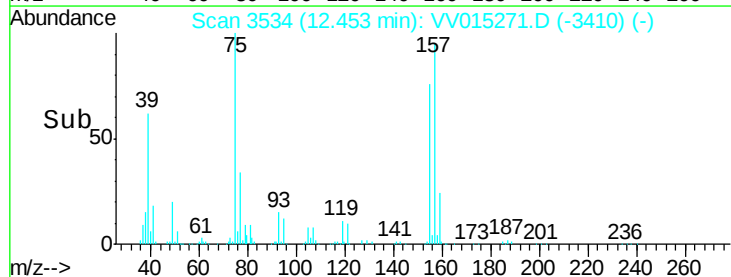
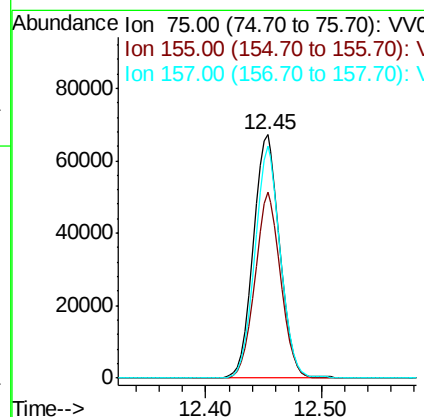
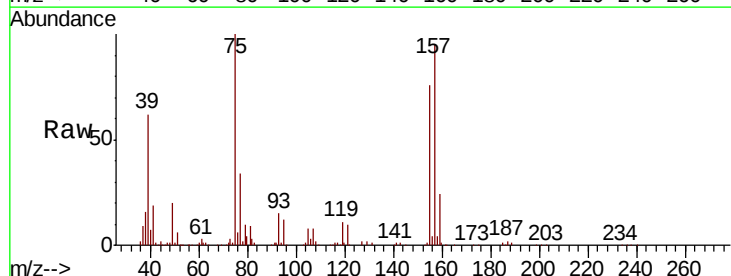
Instrument :  
 MSVOA\_V  
 ClientSampleId :

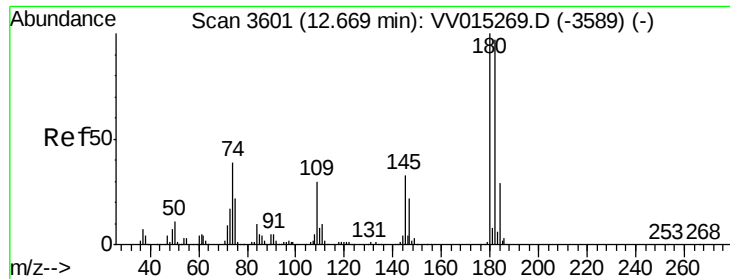
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.0  | 35.8  | 53.6  |
| 148     | 63.3  | 49.1  | 73.7  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 49.985 ug/L  
 RT: 12.45 min Scan# 3534  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 76.3  | 58.2  | 87.4  |
| 157     | 95.2  | 73.0  | 109.6 |

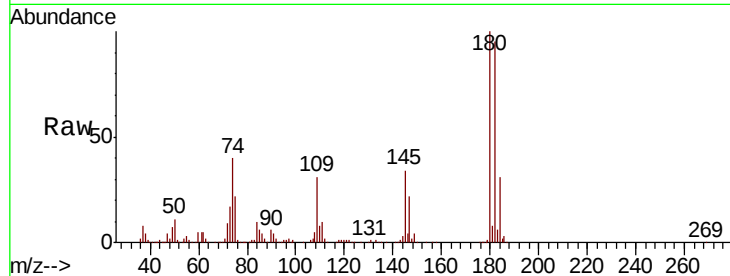




#67  
 1,3,5-Trichlorobenzene  
 Concen: 49.724 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.9  | 76.8  | 115.2 |
| 184     | 30.7  | 23.6  | 35.4  |
| 145     | 33.5  | 27.0  | 40.6  |



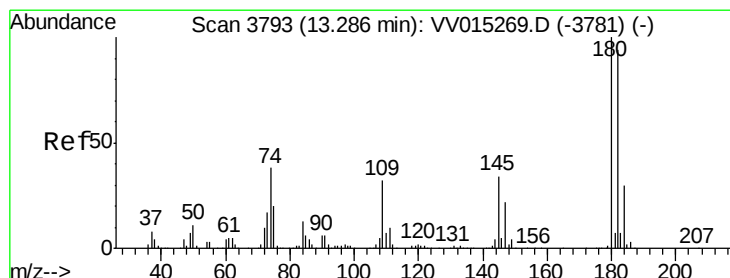
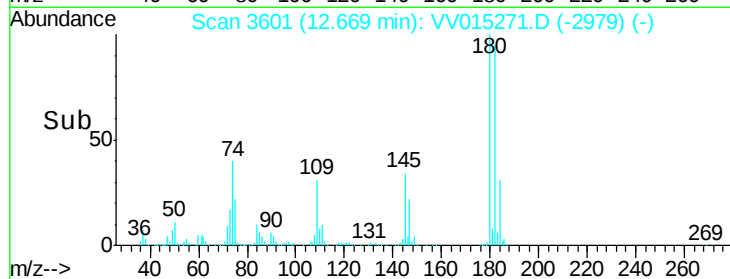
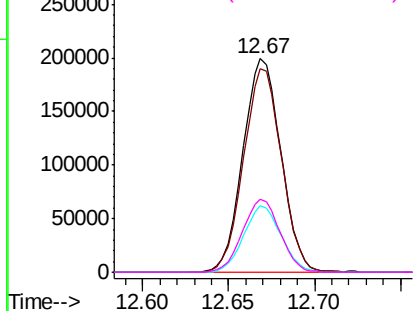
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

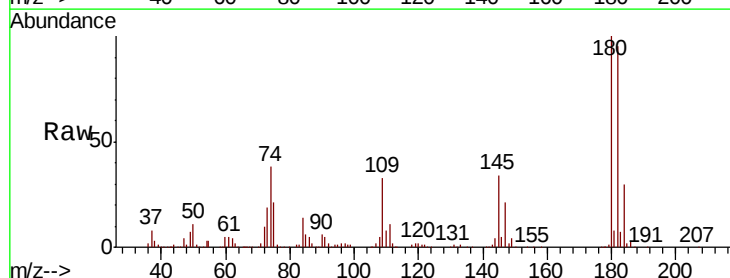
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 49.080 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. -0.00 min  
 Lab File: VV015271.D  
 Acq: 30 Mar 2020 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.9  | 75.2  | 112.8 |
| 145     | 35.3  | 27.3  | 40.9  |

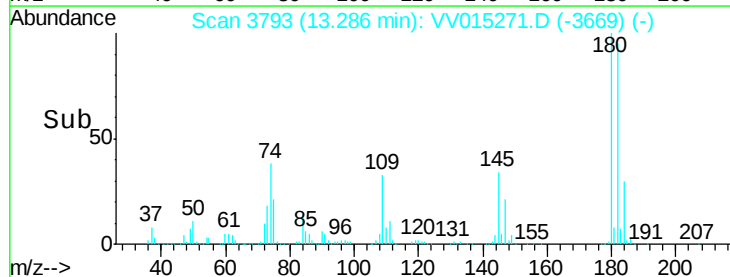
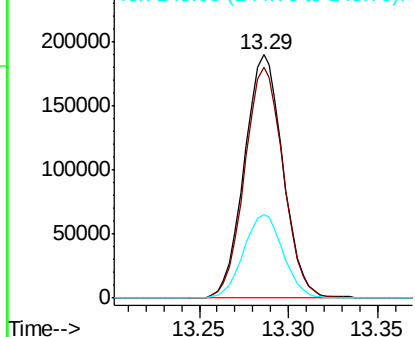


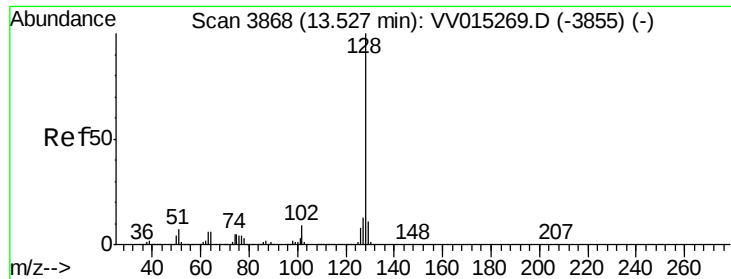
Abundance

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: 51.706 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampled :

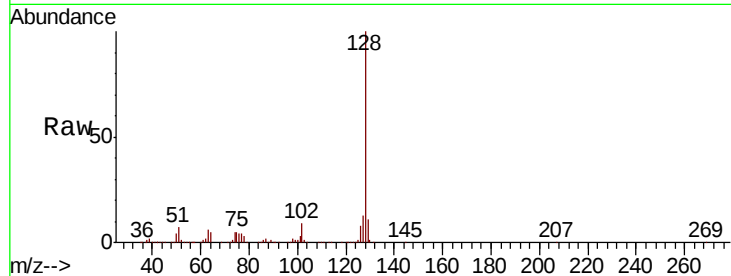
Tot Ion:128 Resp: 1206482

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

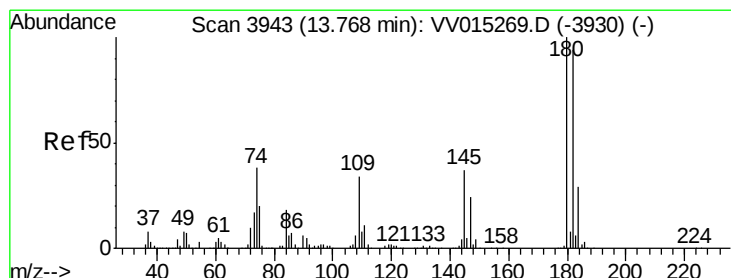
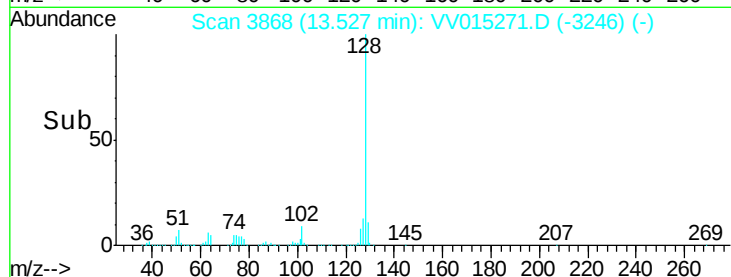
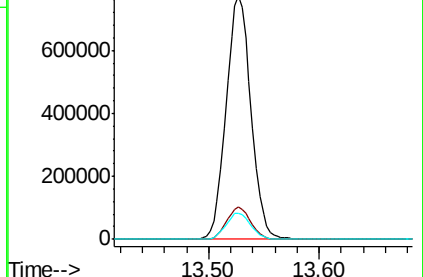
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.481 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VV015271.D

Acq: 30 Mar 2020 14:01

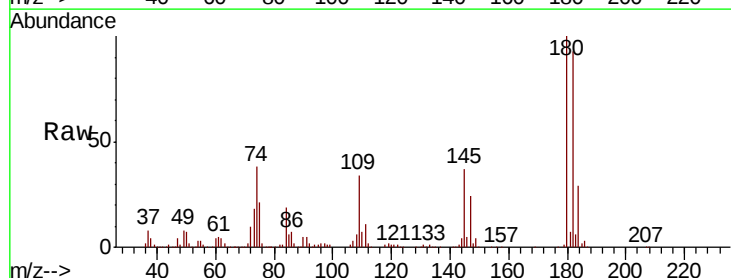
Tgt Ion:180 Resp: 296558

Ion Ratio Lower Upper

180 100

182 94.1 74.7 112.1

145 37.1 29.6 44.4



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

