

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042320\  
 Data File : VX015883.D  
 Acq On : 23 Apr 2020 12:29  
 Operator : JC/SP  
 Sample : L2403-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S73-TB-2020-1

Quant Time: Apr 24 03:27:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 04:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 872140   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1317891  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1269860  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 730380   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 475073   | 47.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.78%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 376698   | 49.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.04%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 1584022  | 51.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.46% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 662170   | 52.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.42% |          |

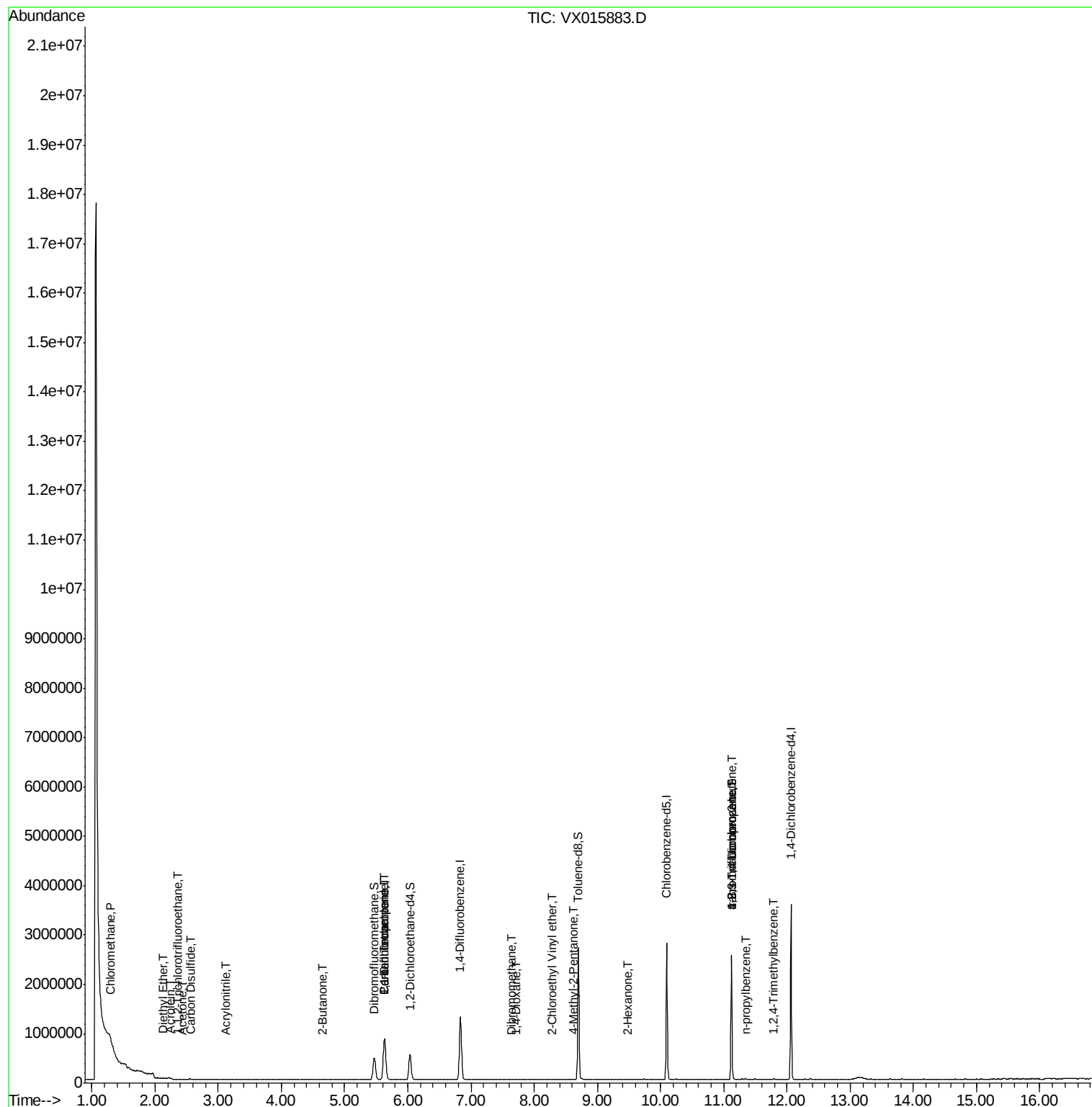
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1930     | 0.252  | ug/l # | 71     |
| 8) Diethyl Ether               | 2.14  | 74   | 918      | 0.206  | ug/l   | 58     |
| 9) 1,1,2-Trichlorotrifluoroet  | 2.37  | 101  | 1716     | 0.230  | ug/l # | 26     |
| 13) Acrolein                   | 2.25  | 56   | 799      | 0.666  | ug/l # | 15     |
| 15) Acrylonitrile              | 3.11  | 53   | 1732     | 0.368  | ug/l # | 57     |
| 16) Acetone                    | 2.44  | 43   | 2977     | 0.689  | ug/l # | 78     |
| 17) Carbon Disulfide           | 2.55  | 76   | 16443    | 0.593  | ug/l   | 100    |
| 25) 2-Butanone                 | 4.64  | 43   | 4316     | 0.632  | ug/l # | 77     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 55941    | 4.788  | ug/l # | 42     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 75017    | 6.519  | ug/l # | 17     |
| 46) Dibromomethane             | 7.65  | 93   | 1370     | 0.204  | ug/l # | 35     |
| 49) 1,4-Dioxane                | 7.72  | 88   | 422      | 1.935  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 3436     | 0.254  | ug/l # | 46     |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 2155     | 0.289  | ug/l   | 100    |
| 59) 2-Hexanone                 | 9.48  | 43   | 3059     | 0.297  | ug/l   | 63     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 319908   | 23.034 | ug/l # | 35     |
| 78) n-propylbenzene            | 11.34 | 91   | 10918    | 0.205  | ug/l   | 88     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 319908   | 55.408 | ug/l # | 12     |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 8409     | 0.205  | ug/l   | 97     |

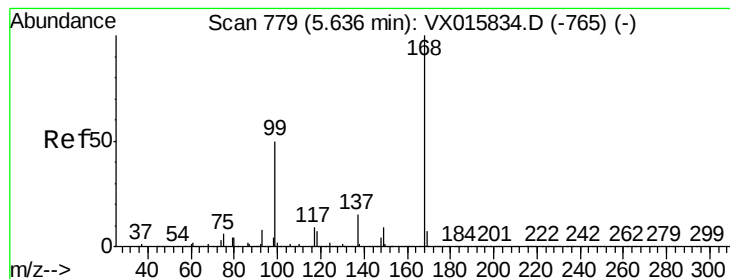
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX042320\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 23 04:36:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

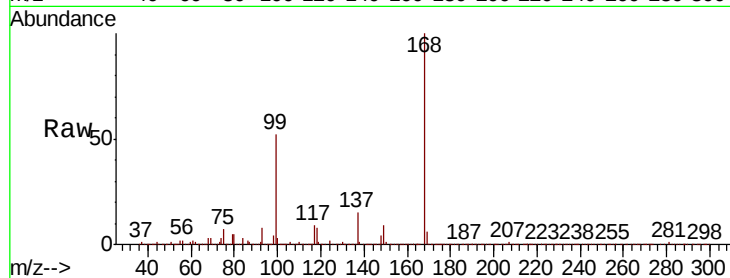
S73-TB-2020-1

Tot Ion:168 Resp: 872140

Ion Ratio Lower Upper

168 100

99 52.1 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

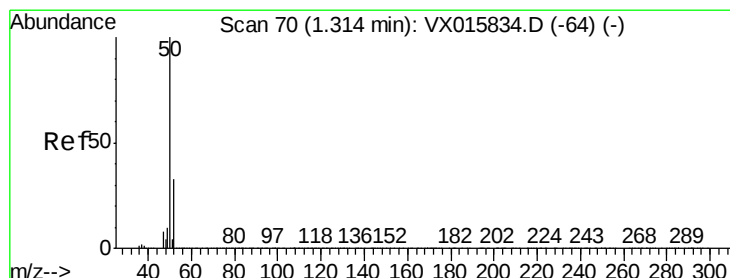
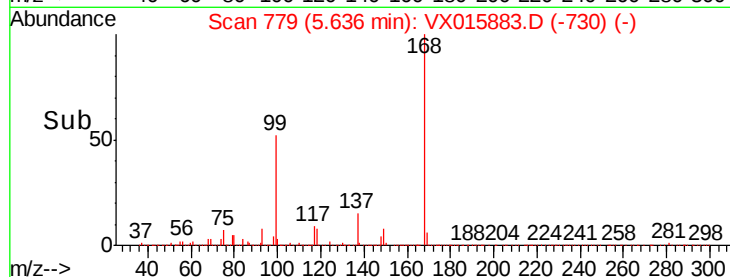
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.252 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VX015883.D

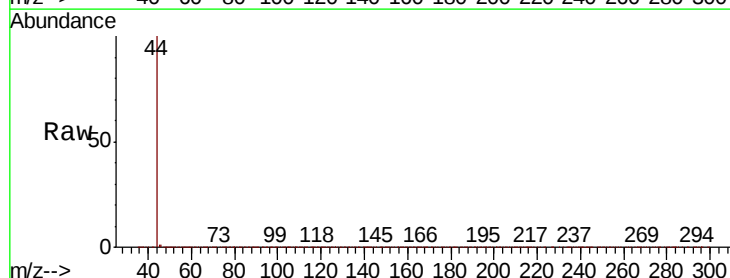
Acq: 23 Apr 2020 12:29

Tgt Ion: 50 Resp: 1930

Ion Ratio Lower Upper

50 100

52 49.0 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

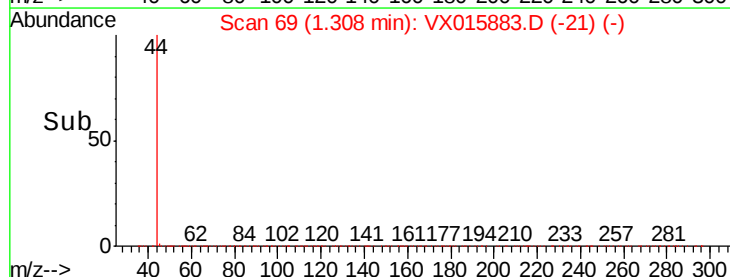
1.31

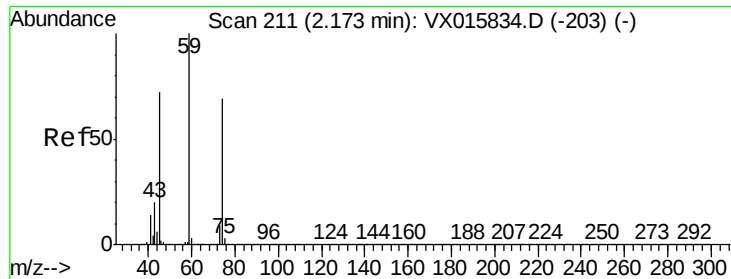
1000

500

0

Time-->





#8

Diethyl Ether

Concen: 0.206 ug/l

RT: 2.14 min Scan# 205

Delta R.T. -0.04 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

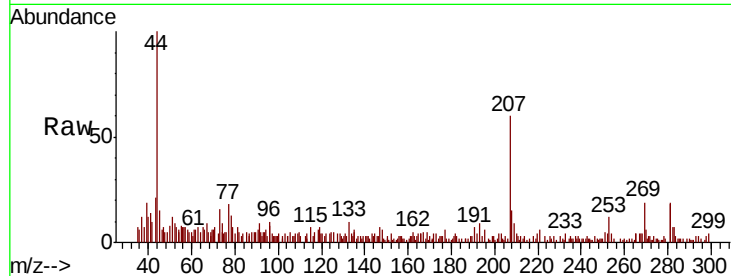
S73-TB-2020-1

Tot Ion: 74 Resp: 918

Ion Ratio Lower Upper

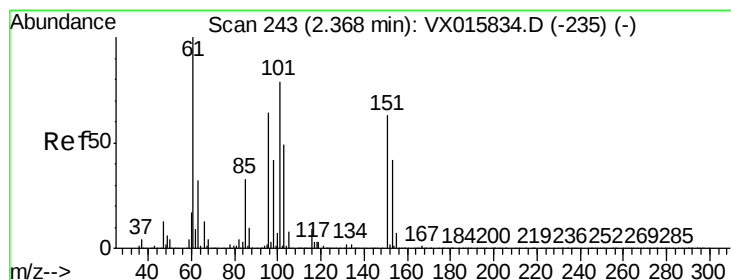
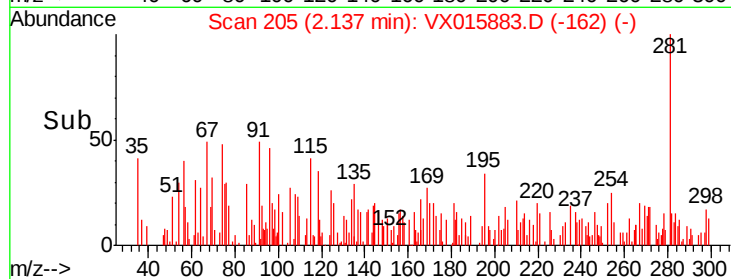
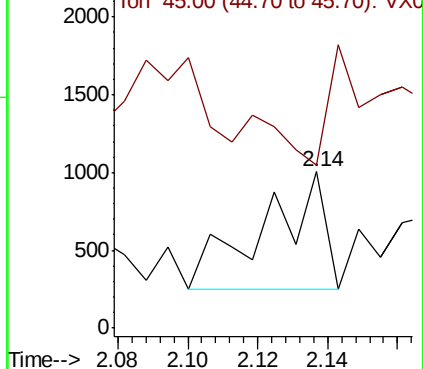
74 100

45 63.8 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.230 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

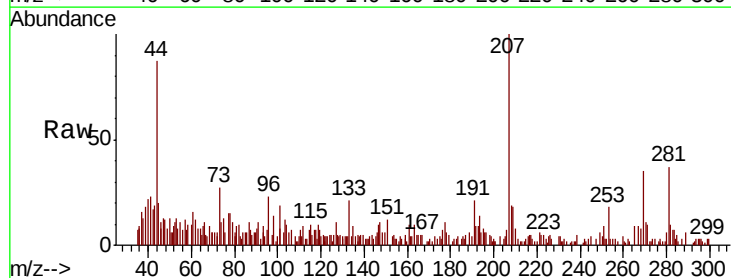
Tgt Ion: 101 Resp: 1716

Ion Ratio Lower Upper

101 100

85 20.1 33.8 50.6#

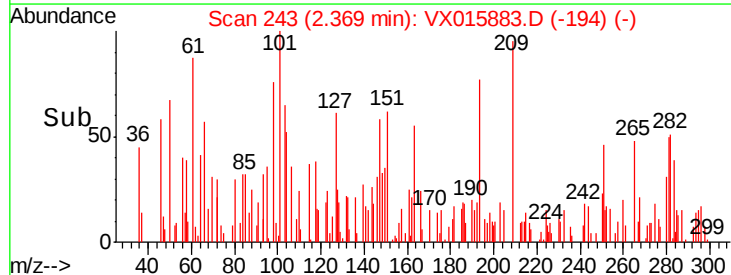
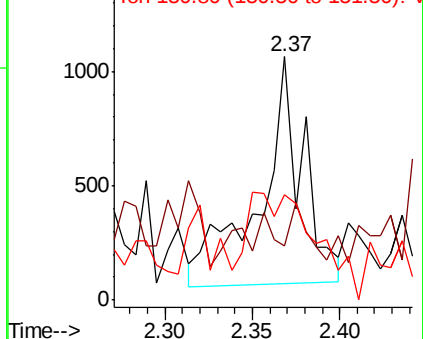
151 0.0 67.8 101.6#

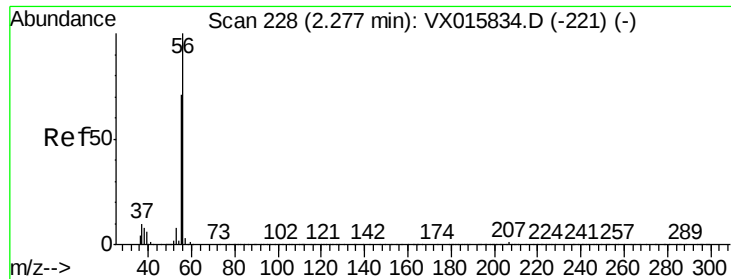


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

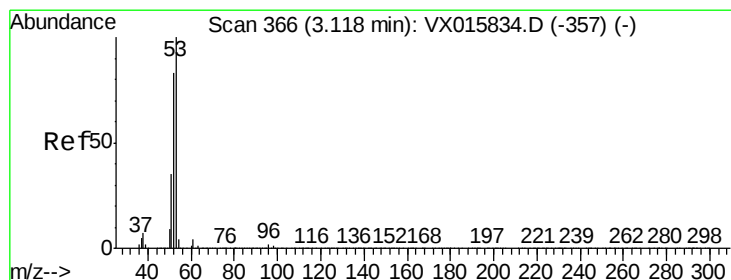
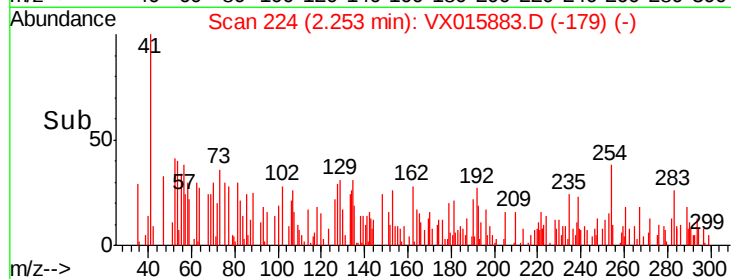
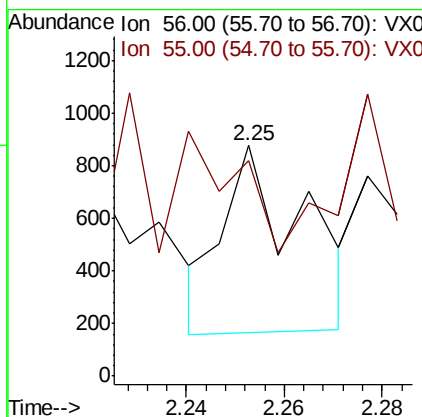
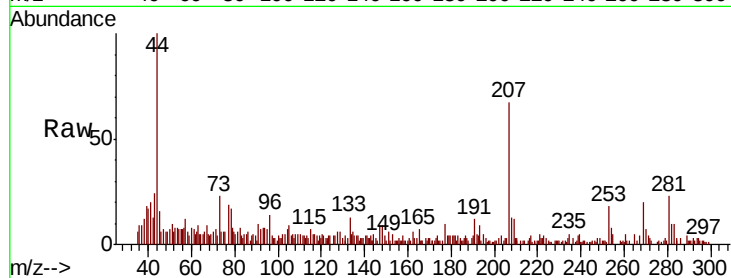




#13  
Acrolein  
Concen: 0.666 ug/l  
RT: 2.25 min Scan# 224  
Delta R.T. -0.02 min  
Lab File: VX015883.D  
Acq: 23 Apr 2020 12:29

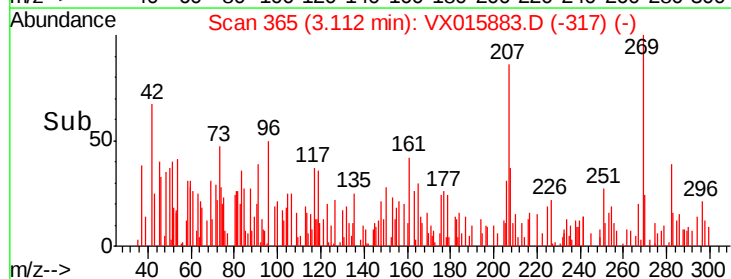
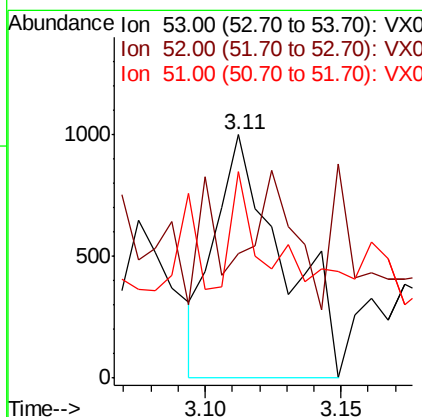
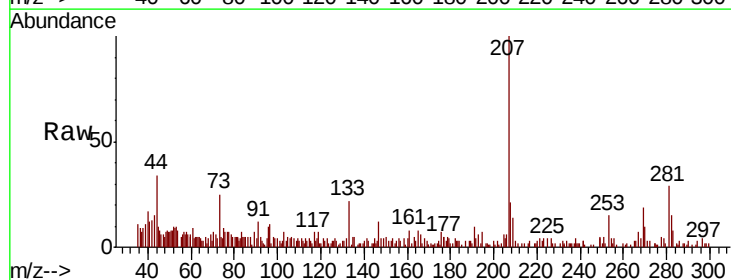
Instrument :  
MSVOA\_X  
ClientSampled :  
S73-TB-2020-1

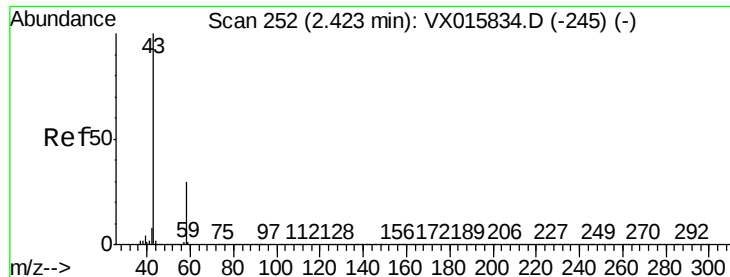
Tot Ion: 56 Resp: 799  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.1 84.1#



#15  
Acrylonitrile  
Concen: 0.368 ug/l  
RT: 3.11 min Scan# 365  
Delta R.T. -0.01 min  
Lab File: VX015883.D  
Acq: 23 Apr 2020 12:29

Tgt Ion: 53 Resp: 1732  
Ion Ratio Lower Upper  
53 100  
52 30.3 66.2 99.4#  
51 39.8 28.6 43.0





#16

Acetone

Concen: 0.689 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

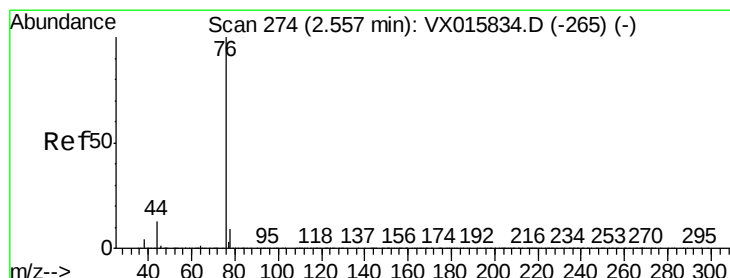
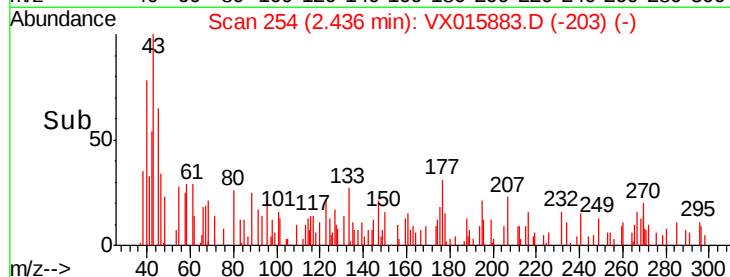
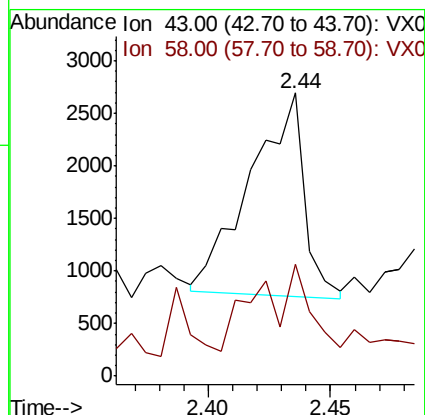
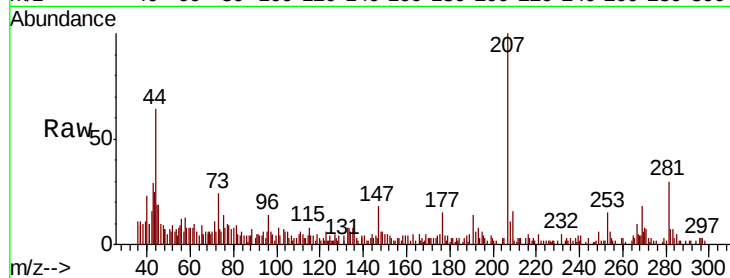
S73-TB-2020-1

Tot Ion: 43 Resp: 2977

Ion Ratio Lower Upper

43 100

58 41.7 24.0 36.0#



#17

Carbon Disulfide

Concen: 0.593 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX015883.D

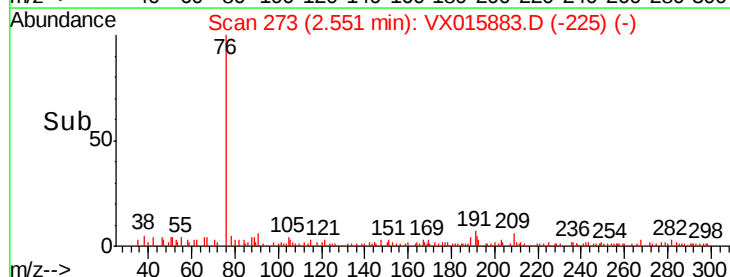
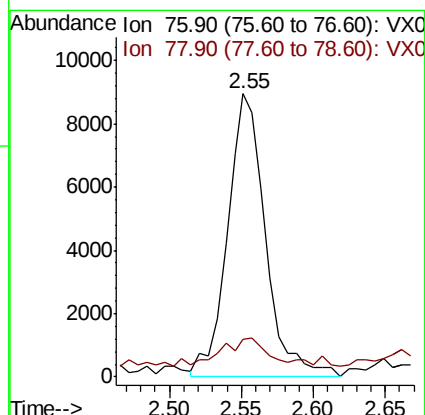
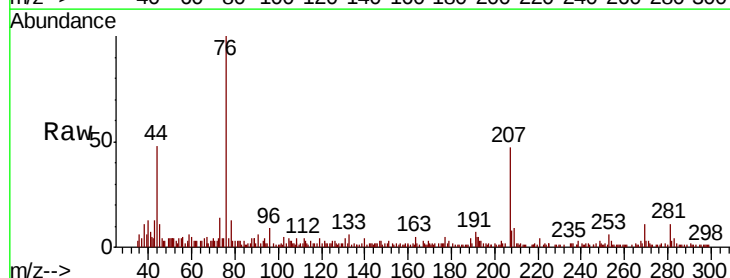
Acq: 23 Apr 2020 12:29

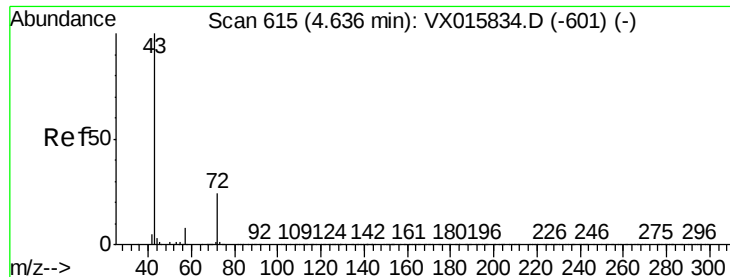
Tgt Ion: 76 Resp: 16443

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2





#25

2-Butanone

Concen: 0.632 ug/l

RT: 4.64 min Scan# 616

Delta R.T. 0.01 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

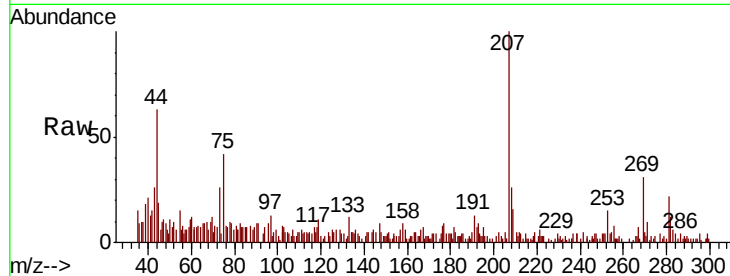
S73-TB-2020-1

Tot Ion: 43 Resp: 4316

Ion Ratio Lower Upper

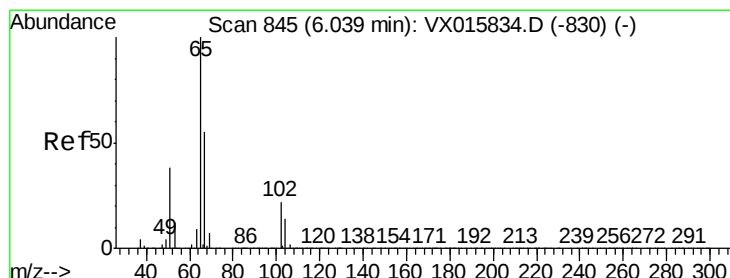
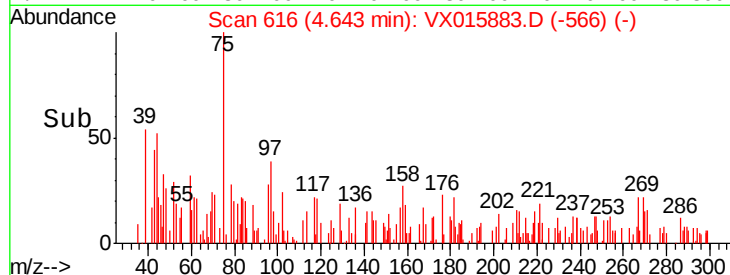
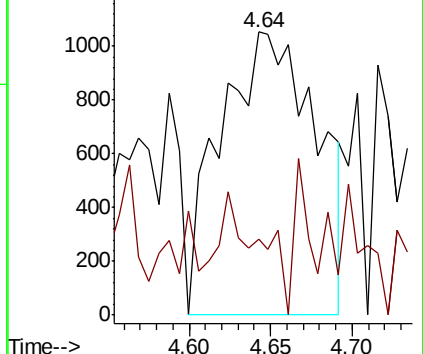
43 100

72 13.1 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.894 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.01 min

Lab File: VX015883.D

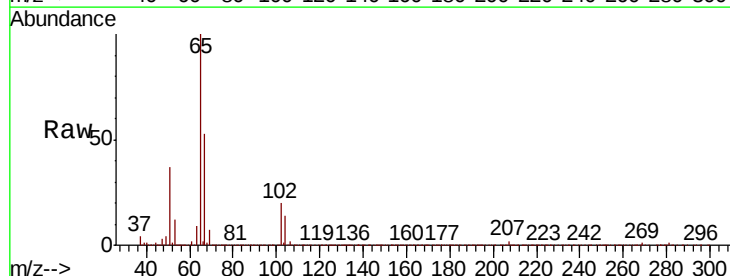
Acq: 23 Apr 2020 12:29

Tgt Ion: 65 Resp: 475073

Ion Ratio Lower Upper

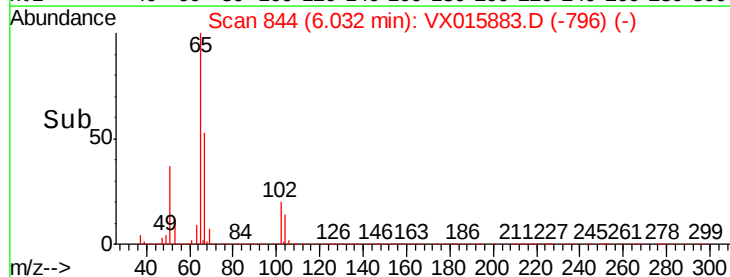
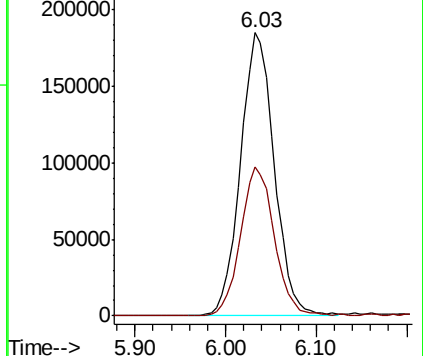
65 100

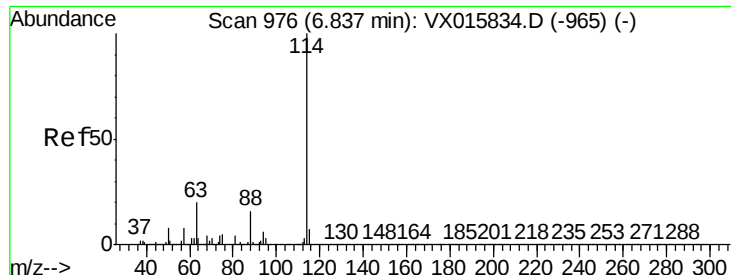
67 52.9 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

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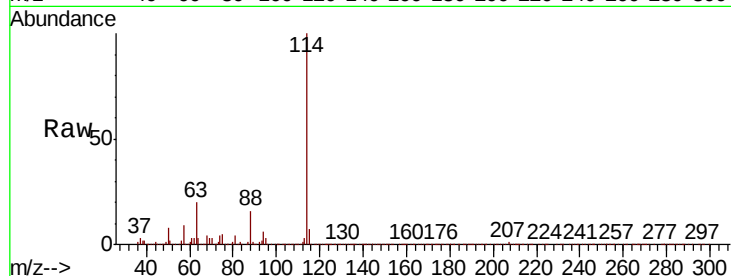
Tot Ion:114 Resp: 1317891

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.6

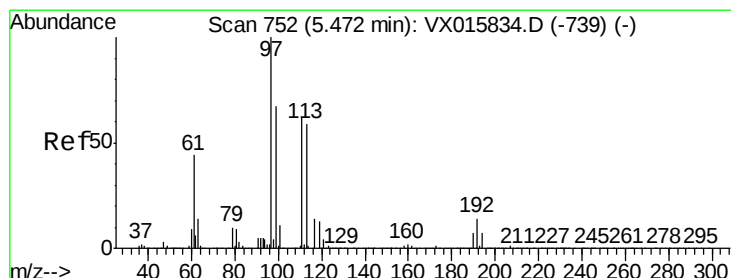
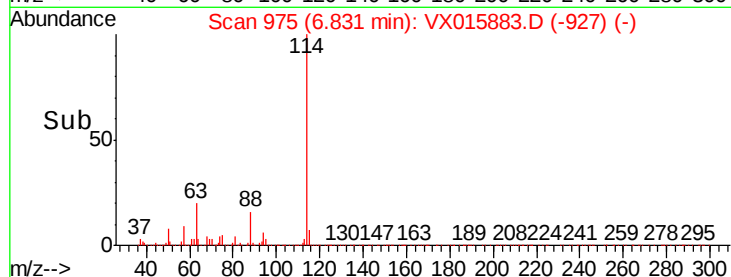
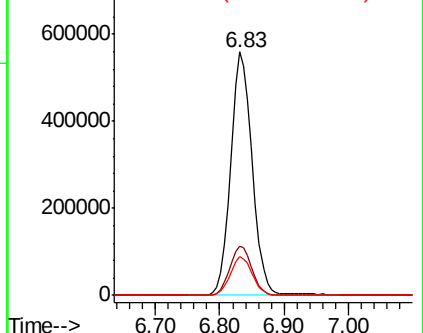
88 15.7 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.519 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

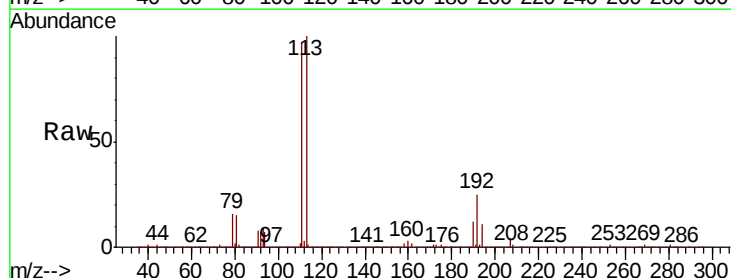
Tgt Ion:113 Resp: 376698

Ion Ratio Lower Upper

113 100

111 102.9 82.7 124.1

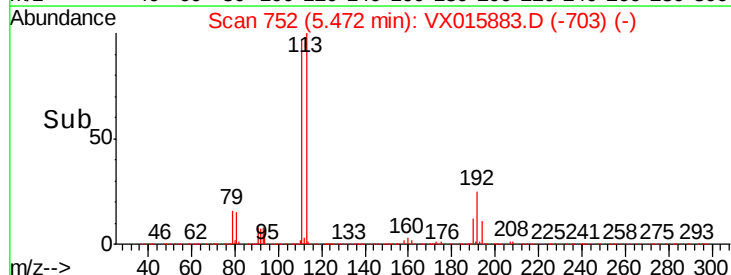
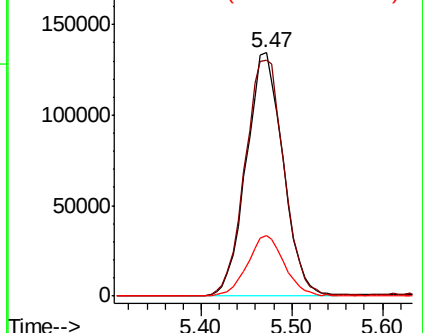
192 24.4 19.3 28.9

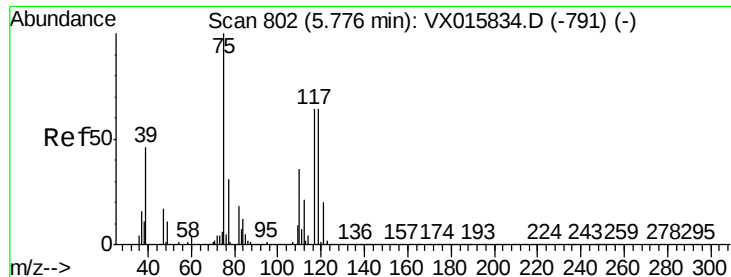


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

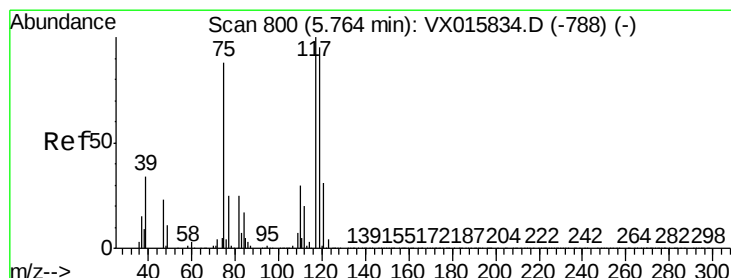
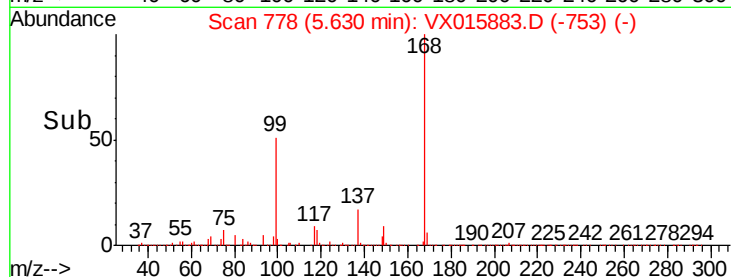
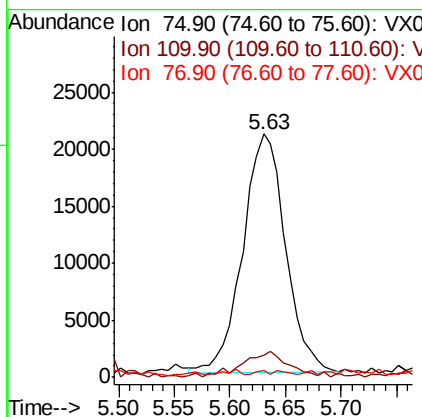
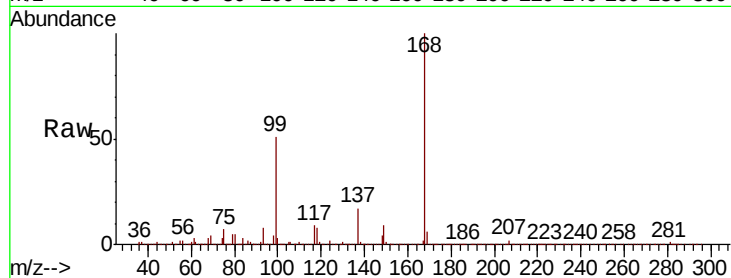




#36  
 1,1-Dichloropropene  
 Concen: 4.788 ug/l  
 RT: 5.63 min Scan# 778  
 Delta R.T. -0.15 min  
 Lab File: VX015883.D  
 Acq: 23 Apr 2020 12:29

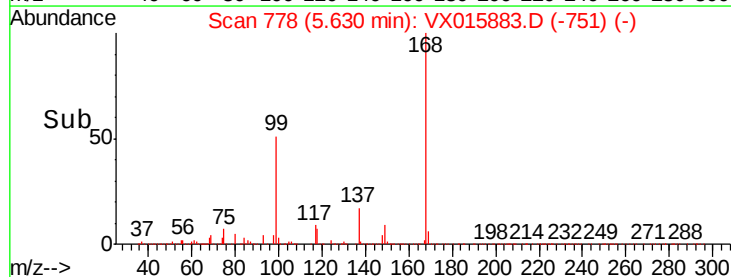
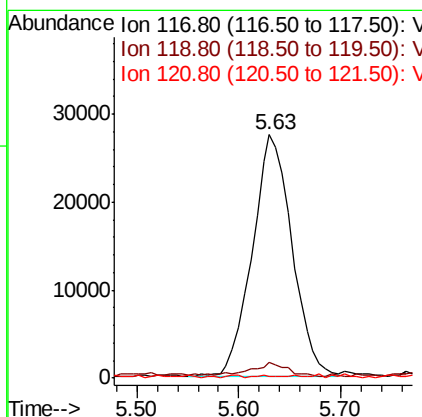
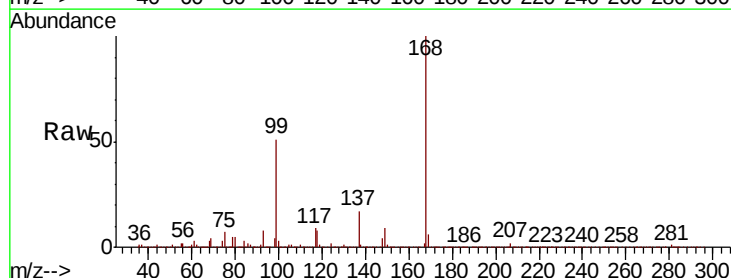
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S73-TB-2020-1

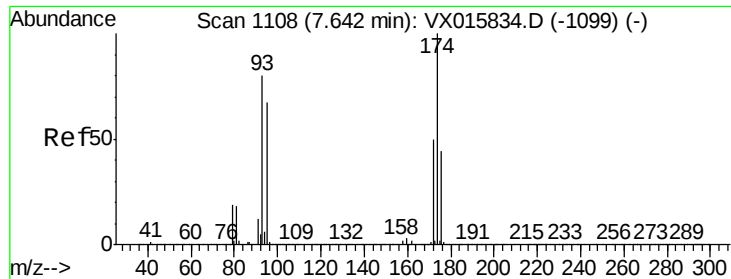
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 0.0   | 17.9  | 53.8# |
| 77      | 0.3   | 24.5  | 36.7# |



#38  
 Carbon Tetrachloride  
 Concen: 6.519 ug/l  
 RT: 5.63 min Scan# 778  
 Delta R.T. -0.13 min  
 Lab File: VX015883.D  
 Acq: 23 Apr 2020 12:29

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.5   | 75.7  | 113.5# |
| 121     | 0.0   | 25.0  | 37.6#  |





#46

Dibromomethane

Concen: 0.204 ug/l

RT: 7.65 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

S73-TB-2020-1

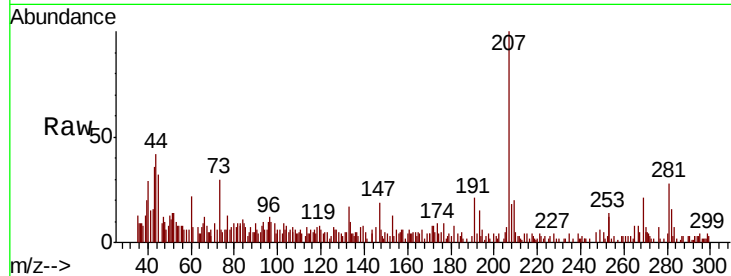
Tot Ion: 93 Resp: 1370

Ion Ratio Lower Upper

93 100

95 85.0 65.8 98.8

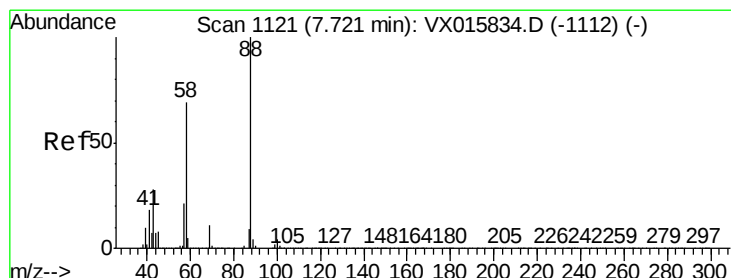
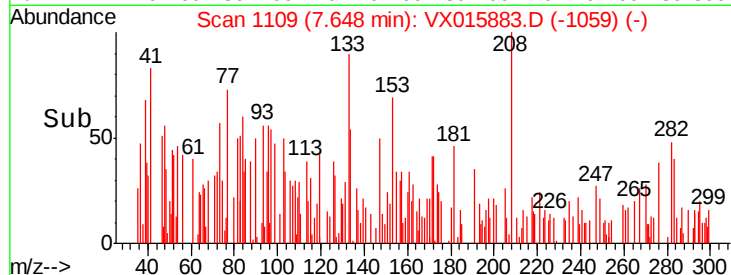
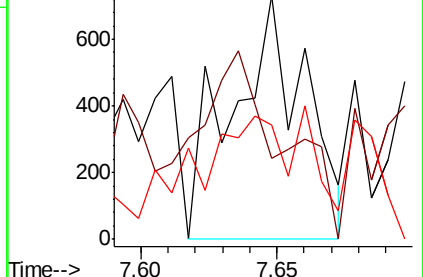
174 0.0 95.6 143.4#



Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V



#49

1,4-Dioxane

Concen: 1.935 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

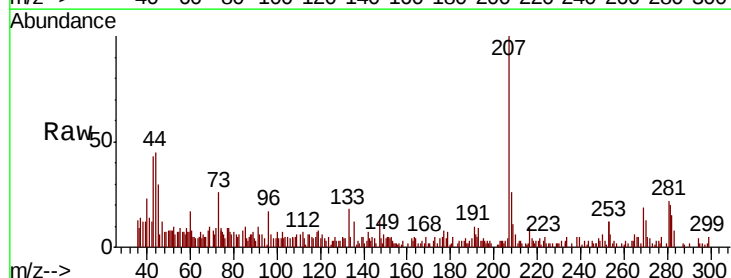
Tgt Ion: 88 Resp: 422

Ion Ratio Lower Upper

88 100

43 272.5 28.2 42.4#

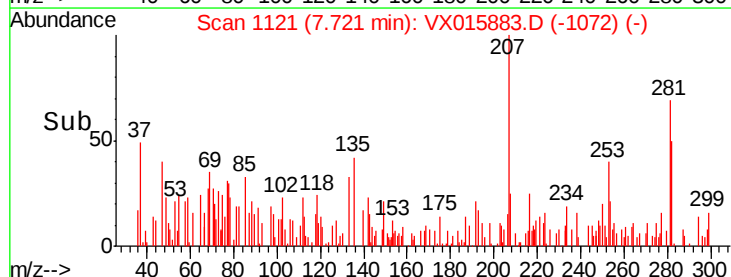
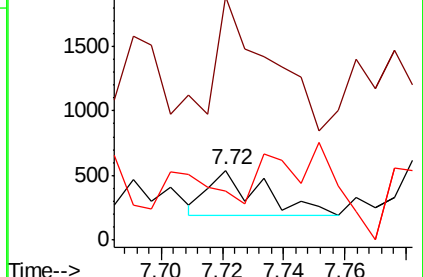
58 151.4 58.9 88.3#

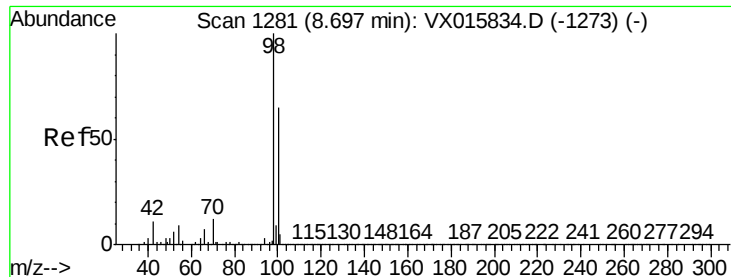


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

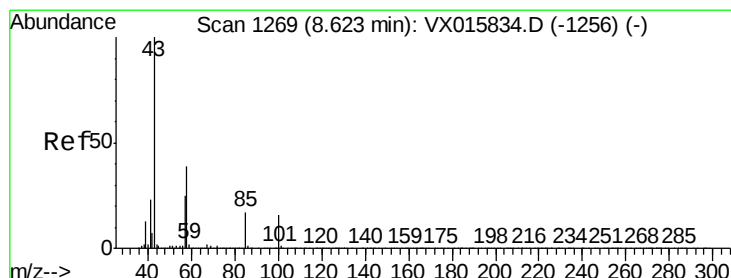
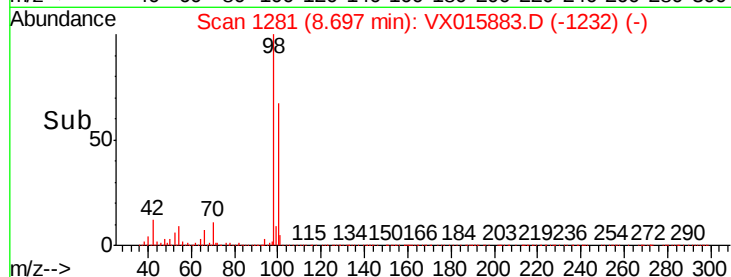
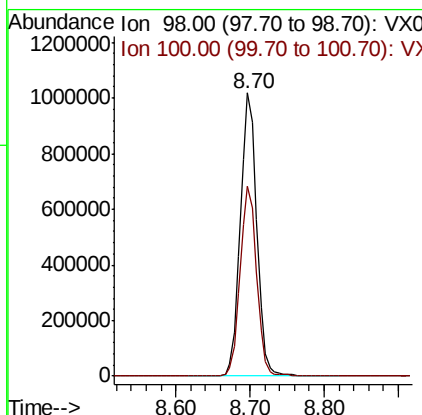
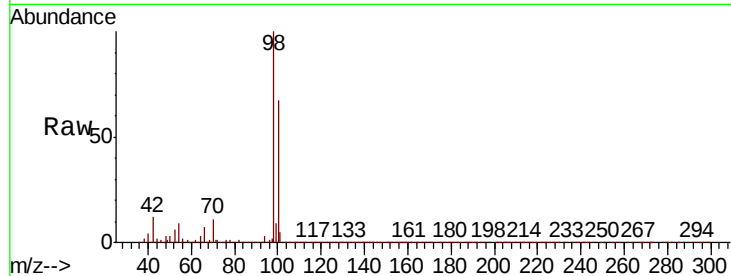




#50  
Toluene-d8  
Concen: 51.725 ug/l  
RT: 8.70 min Scan# 1281  
Delta R.T. 0.00 min  
Lab File: VX015883.D  
Acq: 23 Apr 2020 12:29

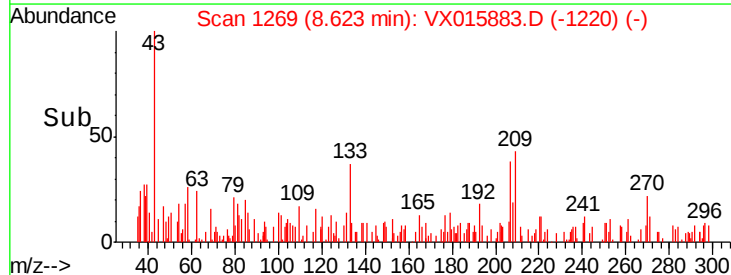
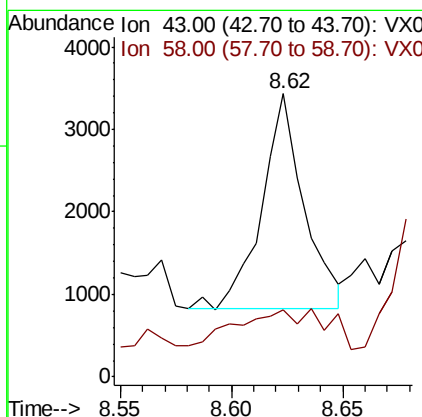
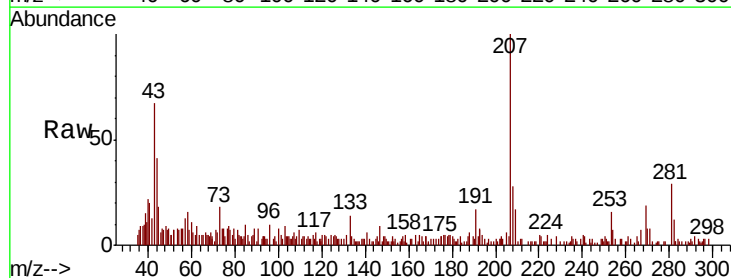
Instrument :  
MSVOA\_X  
ClientSampleId :  
S73-TB-2020-1

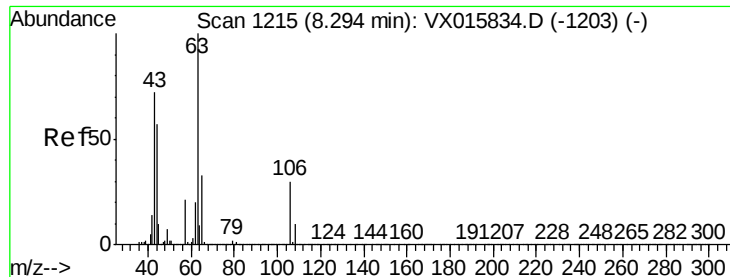
Tot Ion: 98 Resp: 1584022  
Ion Ratio Lower Upper  
98 100  
100 67.2 53.8 80.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.254 ug/l  
RT: 8.62 min Scan# 1269  
Delta R.T. 0.00 min  
Lab File: VX015883.D  
Acq: 23 Apr 2020 12:29

Tgt Ion: 43 Resp: 3436  
Ion Ratio Lower Upper  
43 100  
58 70.5 30.6 45.8#

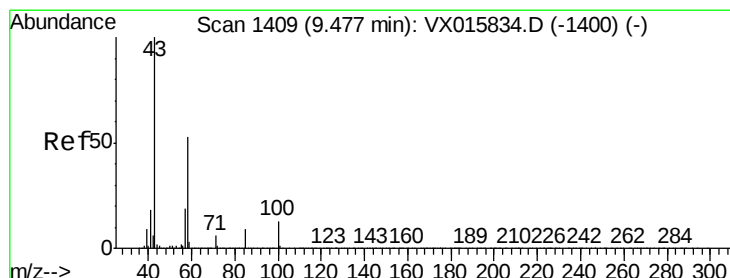
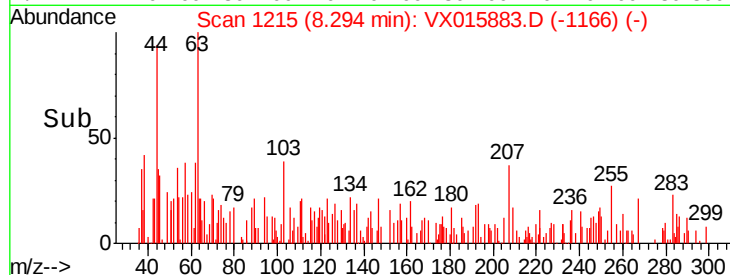
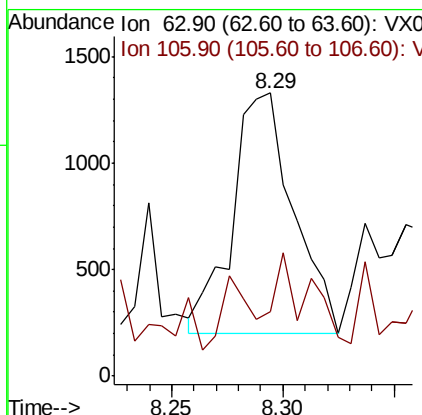
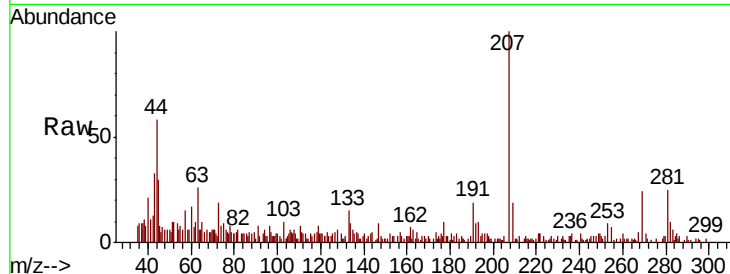




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 0.289 ug/l  
 RT: 8.29 min Scan# 1215  
 Delta R.T. 0.00 min  
 Lab File: VX015883.D  
 Acq: 23 Apr 2020 12:29

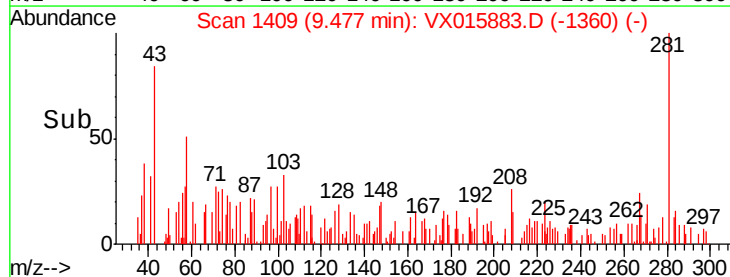
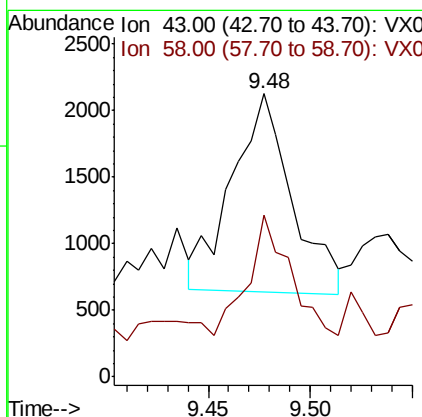
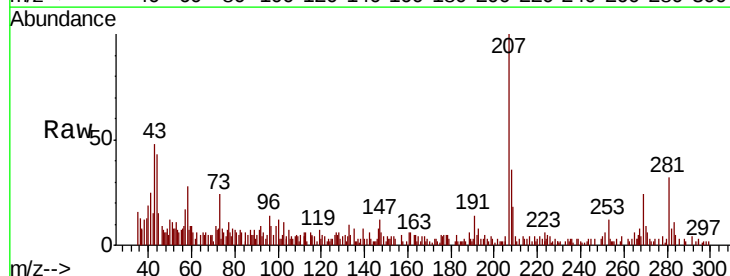
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 S73-TB-2020-1

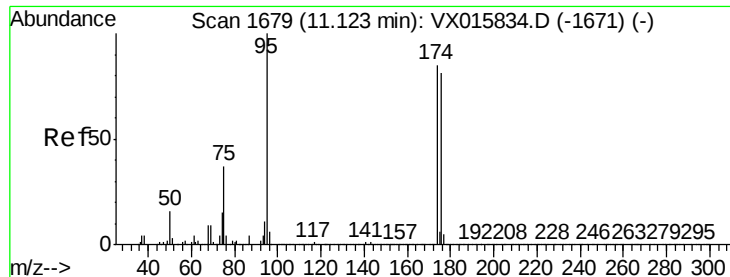
Tot Ion: 63 Resp: 2155  
 Ion Ratio Lower Upper  
 63 100  
 106 29.7 23.8 35.8



#59  
 2-Hexanone  
 Concen: 0.297 ug/l  
 RT: 9.48 min Scan# 1409  
 Delta R.T. 0.00 min  
 Lab File: VX015883.D  
 Acq: 23 Apr 2020 12:29

Tgt Ion: 43 Resp: 3059  
 Ion Ratio Lower Upper  
 43 100  
 58 79.1 26.5 79.4





#62

4-Bromofluorobenzene

Concen: 52.709 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

S73-TB-2020-1

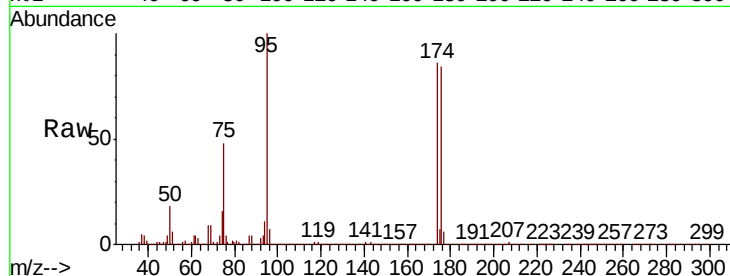
Tot Ion: 95 Resp: 662170

Ion Ratio Lower Upper

95 100

174 87.2 0.0 172.4

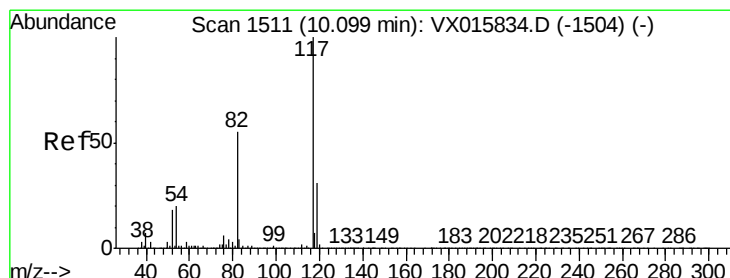
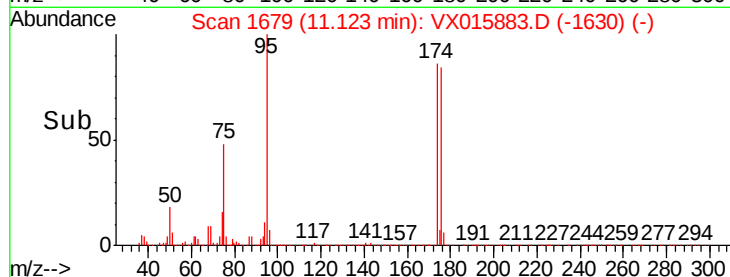
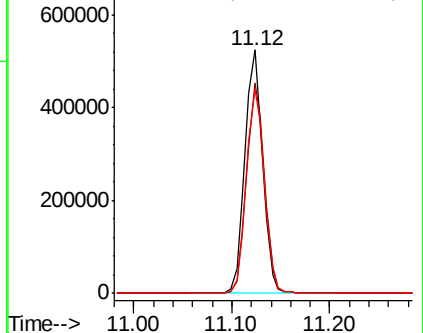
176 85.6 0.0 167.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

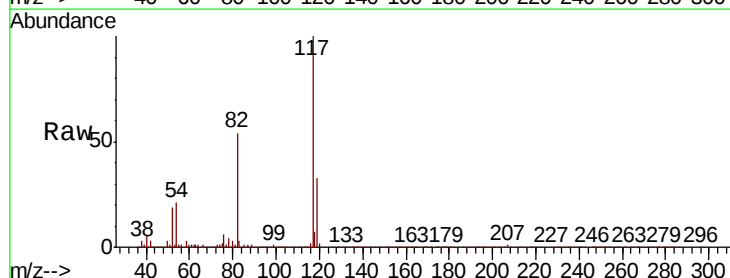
Tgt Ion: 117 Resp: 1269860

Ion Ratio Lower Upper

117 100

82 53.9 43.9 65.9

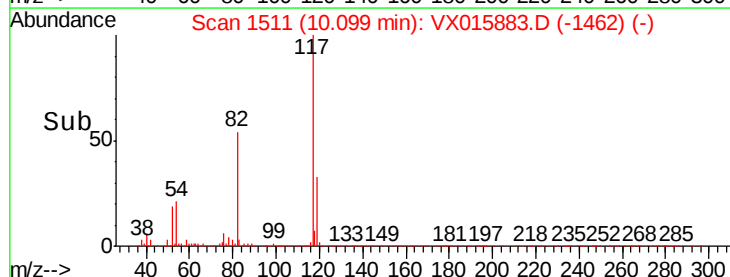
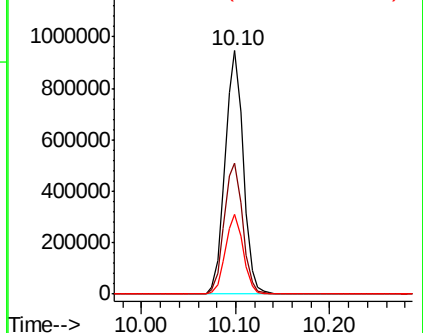
119 32.9 25.1 37.7

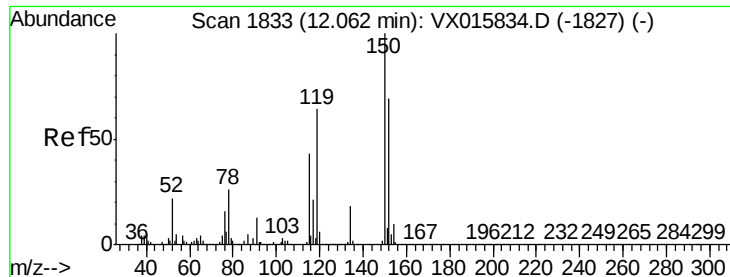


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

S73-TB-2020-1

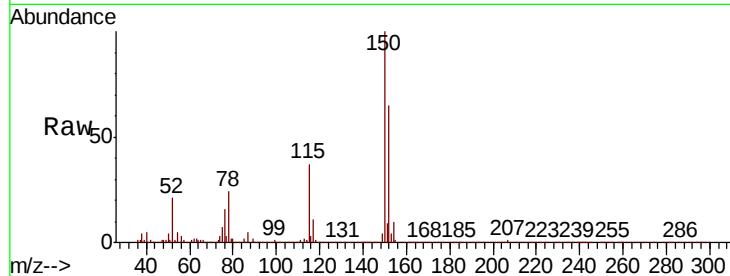
Tot Ion:152 Resp: 730380

Ion Ratio Lower Upper

152 100

115 55.9 39.0 116.9

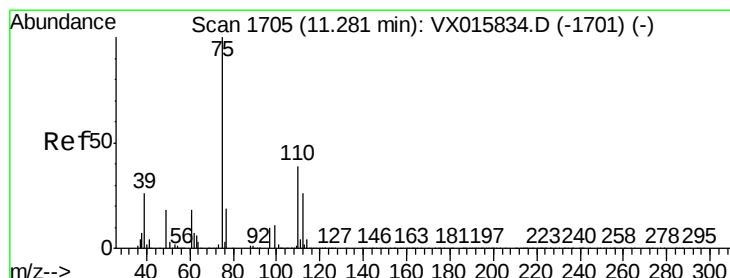
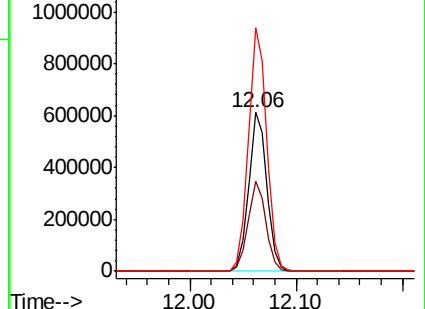
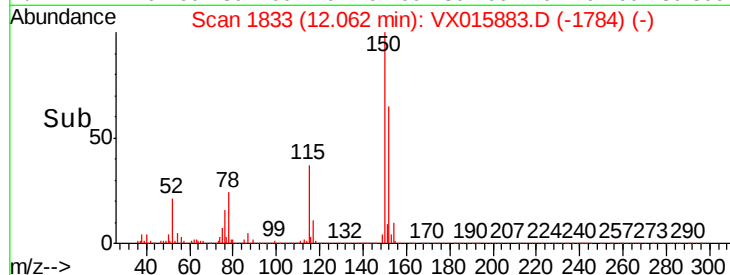
150 154.4 0.0 336.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.034 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015883.D

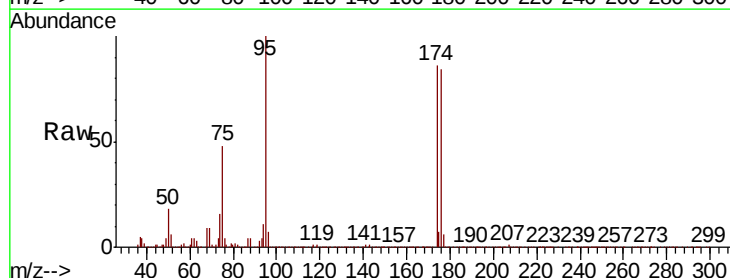
Acq: 23 Apr 2020 12:29

Tgt Ion: 75 Resp: 319908

Ion Ratio Lower Upper

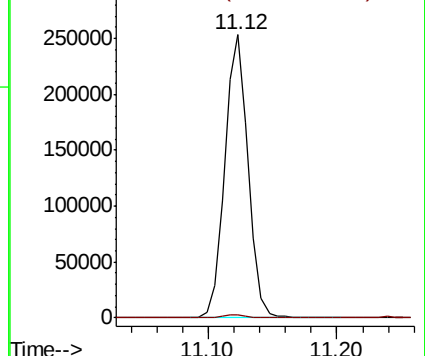
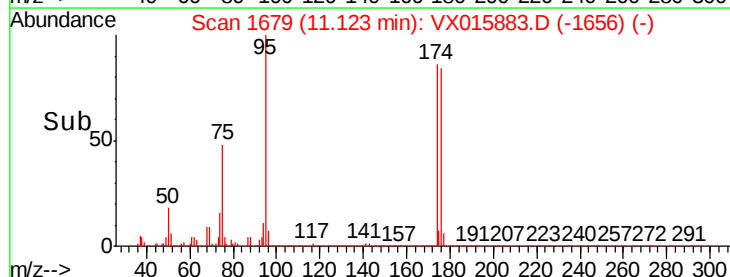
75 100

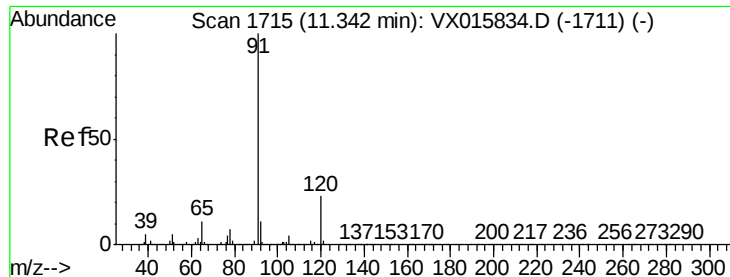
77 1.1 21.3 63.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

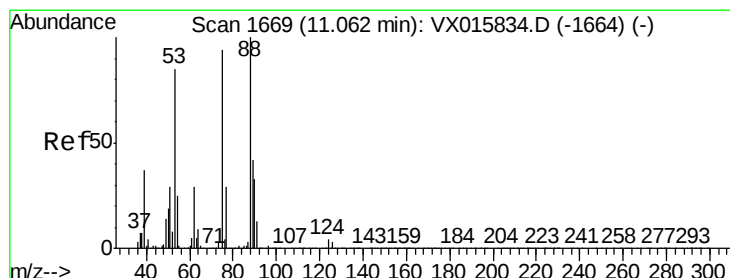
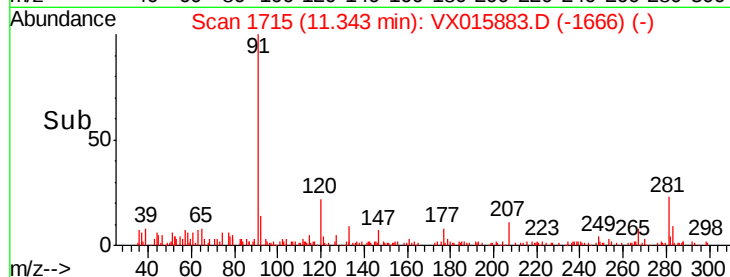
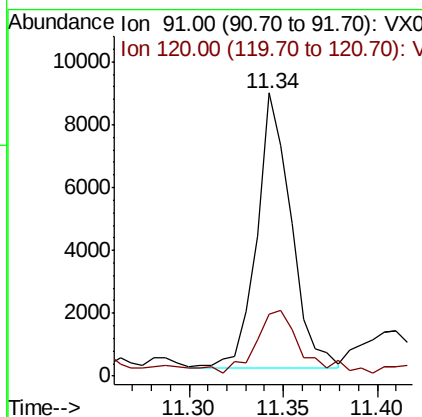
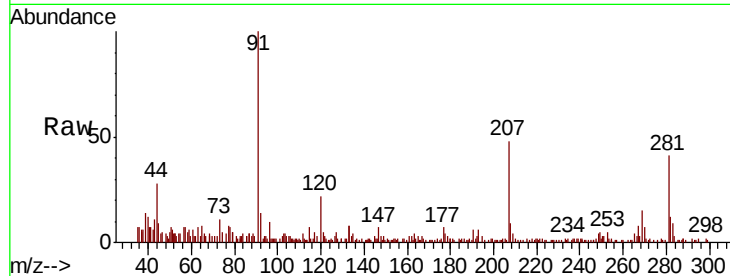




#78  
n-propylbenzene  
Concen: 0.205 ug/l  
RT: 11.34 min Scan# 1715  
Delta R.T. 0.00 min  
Lab File: VX015883.D  
Acq: 23 Apr 2020 12:29

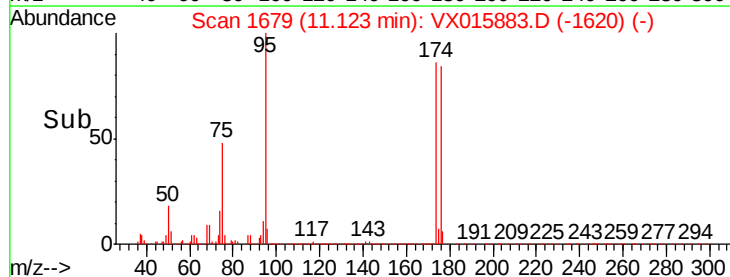
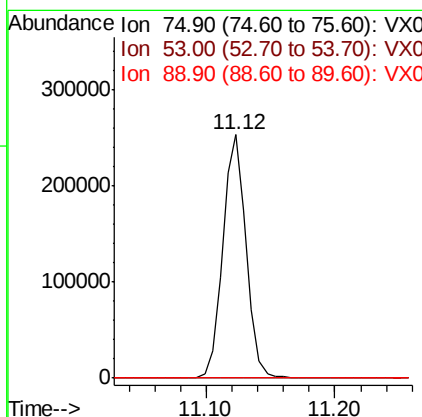
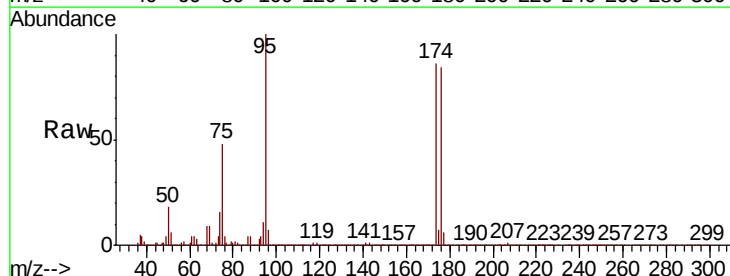
Instrument :  
MSVOA\_X  
ClientSampled :  
S73-TB-2020-1

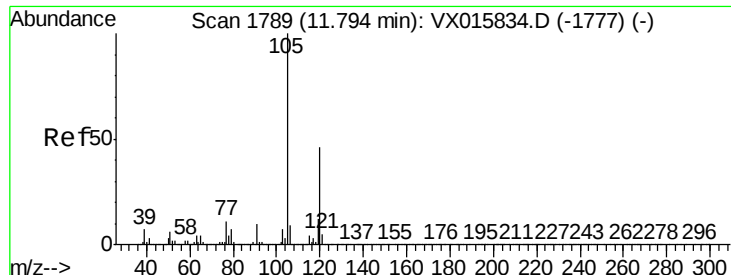
Tot Ion: 91 Resp: 10918  
Ion Ratio Lower Upper  
91 100  
120 29.4 11.7 35.1



#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.408 ug/l  
RT: 11.12 min Scan# 1679  
Delta R.T. 0.06 min  
Lab File: VX015883.D  
Acq: 23 Apr 2020 12:29

Tgt Ion: 75 Resp: 319908  
Ion Ratio Lower Upper  
75 100  
53 0.4 74.2 111.2#  
89 0.2 38.0 57.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.205 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX015883.D

Acq: 23 Apr 2020 12:29

Instrument :

MSVOA\_X

ClientSampleId :

S73-TB-2020-1

Tot Ion:105 Resp: 8409

Ion Ratio Lower Upper

105 100

120 48.0 22.9 68.7

