

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061920\  
 Data File : VX016877.D  
 Acq On : 19 Jun 2020 14:21  
 Operator : JC/SP  
 Sample : L3042-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-01-200616

Quant Time: Jun 22 01:35:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 19 12:07:48 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 266619   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 424970   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 370022   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 191924   | 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   | 132002   | 41.17 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.34% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 114016   | 41.94 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.88% |          |
| 50) Toluene-d8              | 8.70  | 98   | 541787   | 49.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.62% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 182933   | 43.90 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.80% |          |

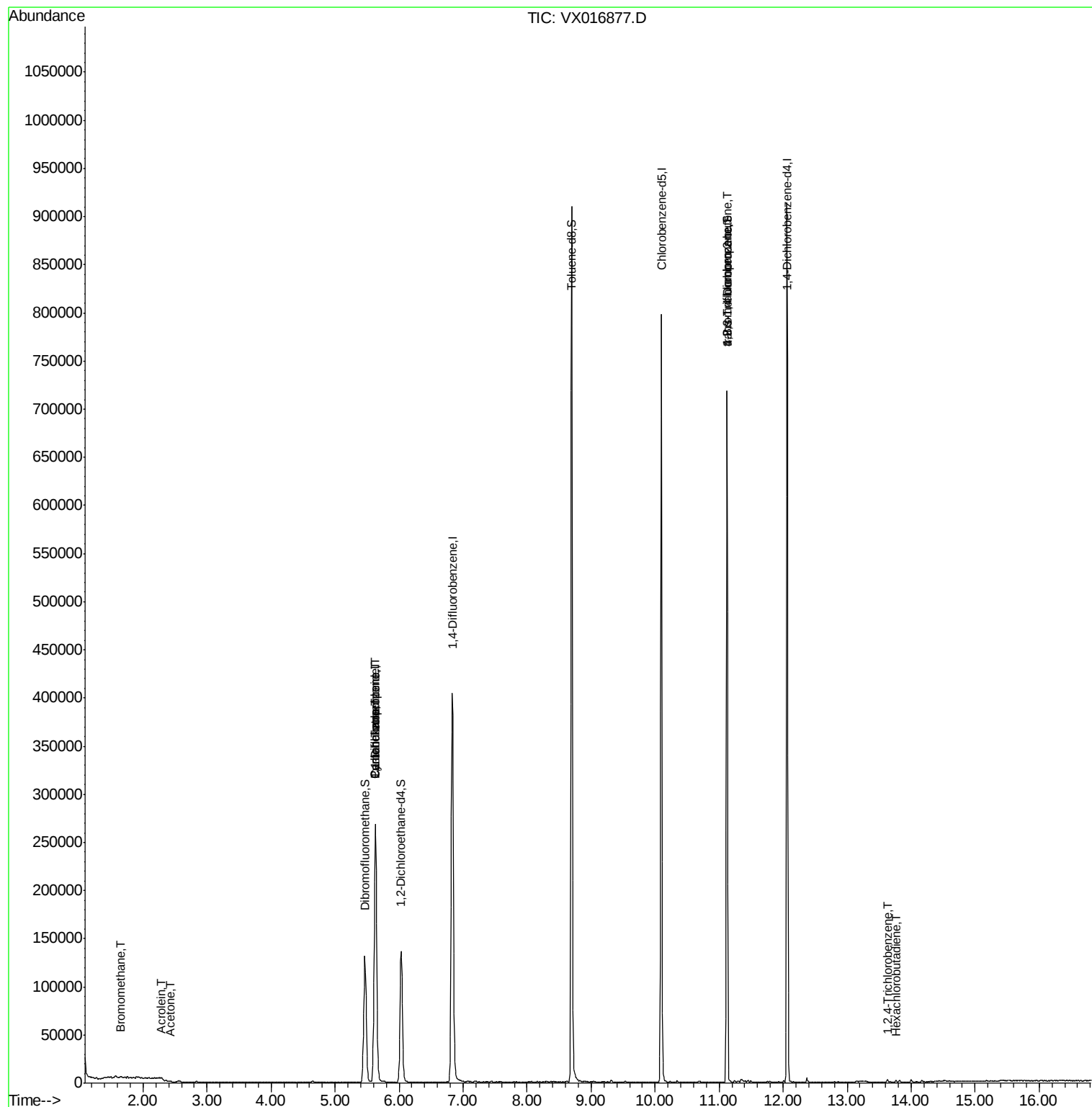
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 485      | 0.215  | ug/l # | 76     |
| 13) Acrolein                   | 2.28  | 56   | 368      | 1.120  | ug/l   | 94     |
| 16) Acetone                    | 2.42  | 43   | 1137     | 0.977  | ug/l   | 93     |
| 31) Cyclohexane                | 5.63  | 56   | 4527     | 1.142  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 18252    | 4.652  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 24495    | 5.564  | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 87946    | 25.090 | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 87946    | 61.443 | ug/l # | 14     |
| 93) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 823      | 0.206  | ug/l   | 87     |
| 94) Hexachlorobutadiene        | 13.76 | 225  | 426      | 0.237  | ug/l   | 89     |

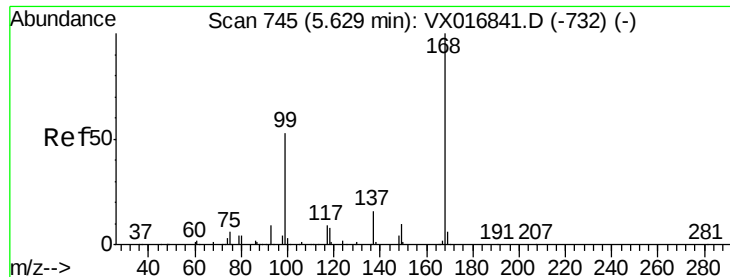
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061920\  
Data File : VX016877.D  
Acq On : 19 Jun 2020 14:21  
Operator : JC/SP  
Sample : L3042-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
TB-01-200616

Quant Time: Jun 22 01:35:49 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061820W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 19 12:07:48 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

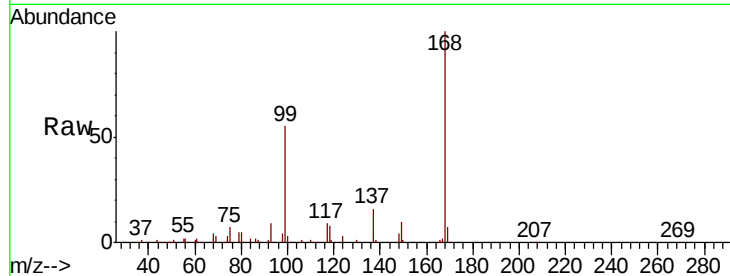
TB-01-200616

Tot Ion:168 Resp: 266619

Ion Ratio Lower Upper

168 100

99 54.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

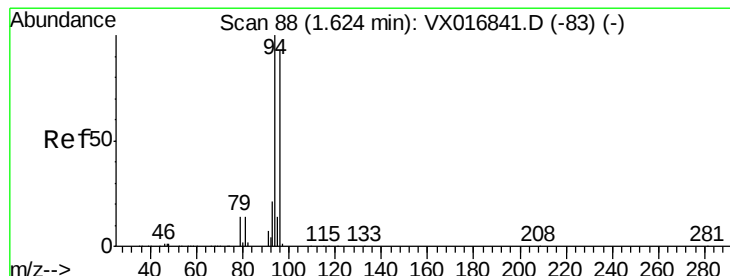
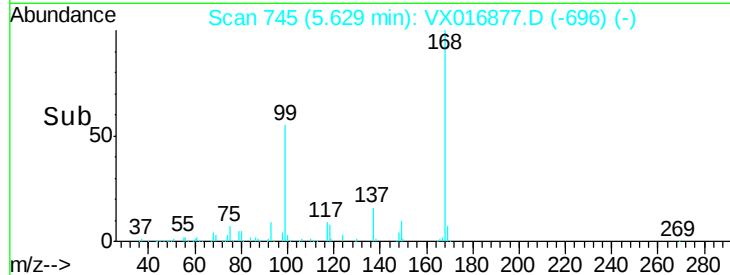
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.215 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.03 min

Lab File: VX016877.D

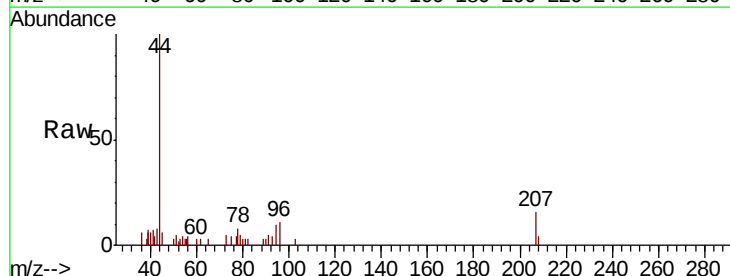
Acq: 19 Jun 2020 14:21

Tgt Ion: 94 Resp: 485

Ion Ratio Lower Upper

94 100

96 69.7 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

250

200

150

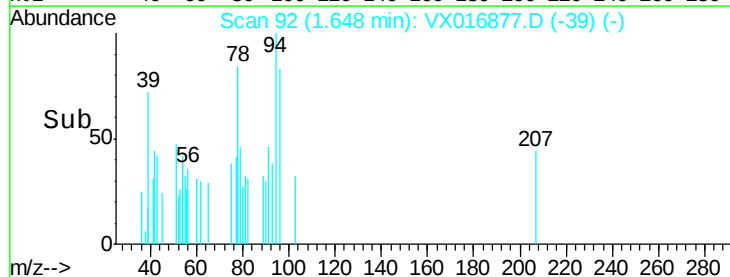
100

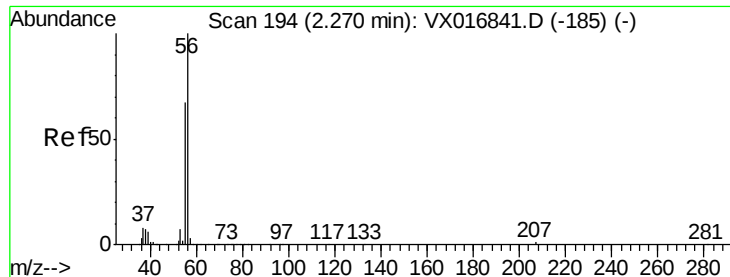
50

0

Time-->

1.60 1.65





#13

Acrolein

Concen: 1.120 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

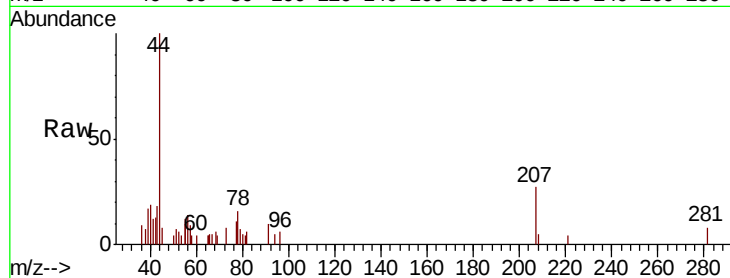
TB-01-200616

Tot Ion: 56 Resp: 368

Ion Ratio Lower Upper

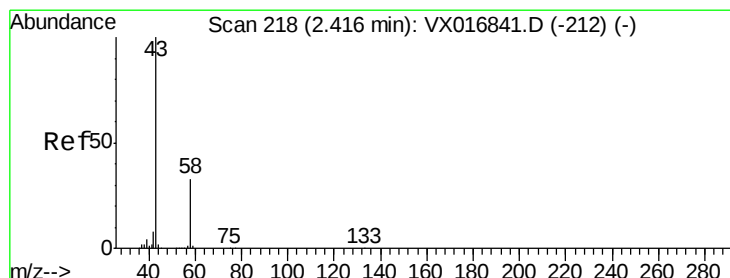
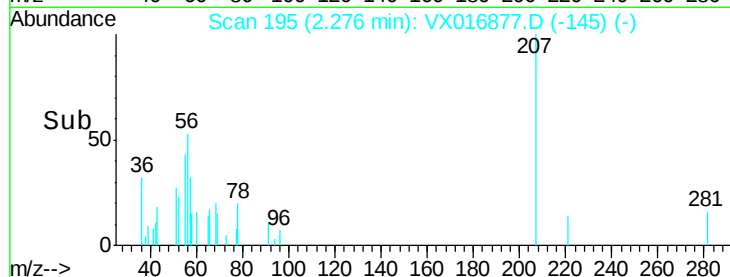
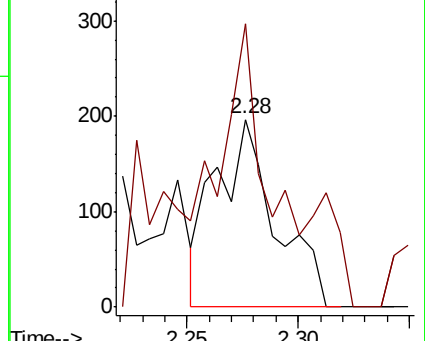
56 100

55 64.4 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.977 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX016877.D

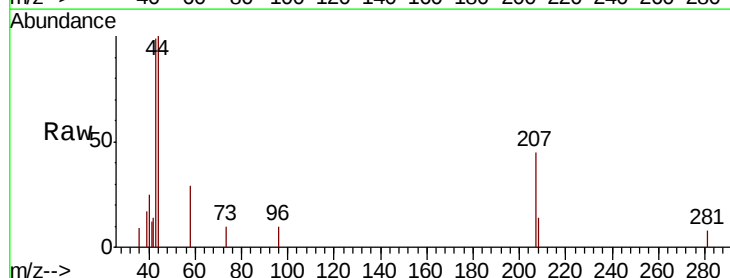
Acq: 19 Jun 2020 14:21

Tgt Ion: 43 Resp: 1137

Ion Ratio Lower Upper

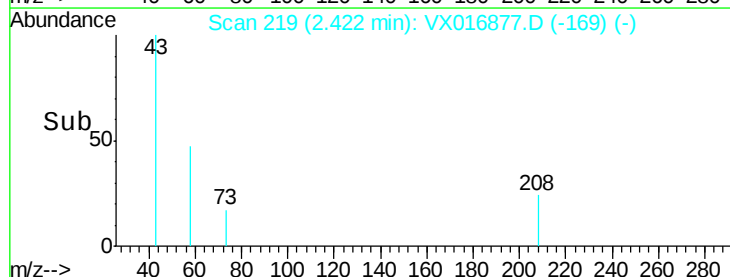
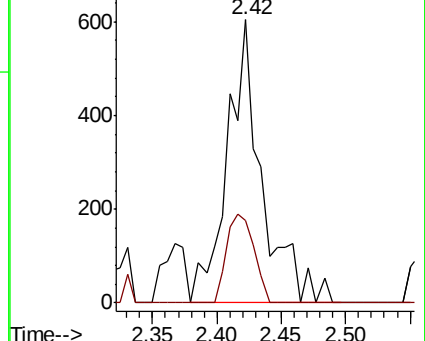
43 100

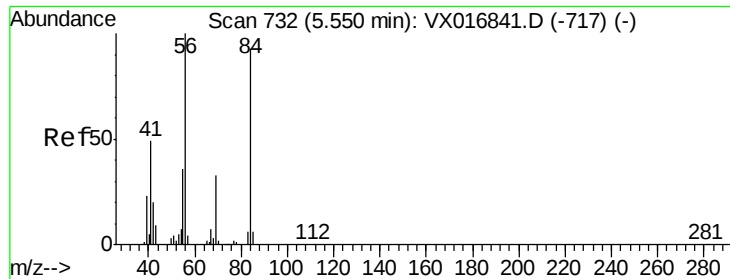
58 29.0 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

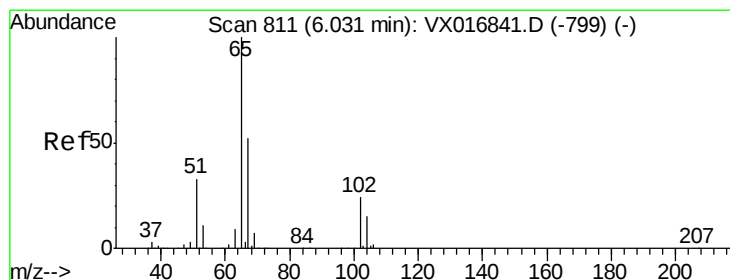
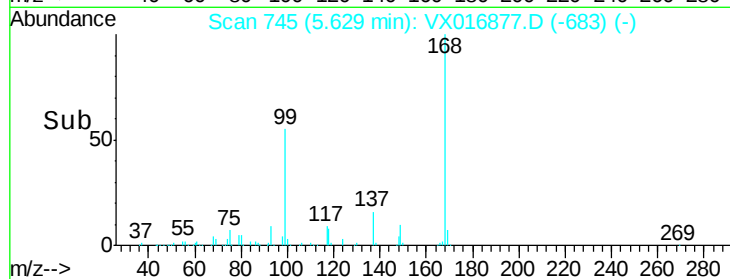
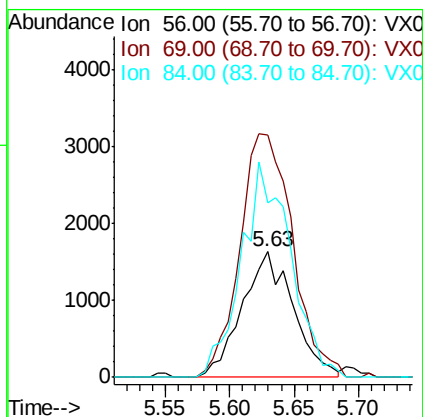
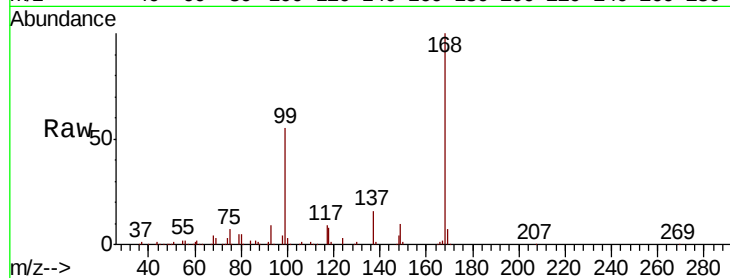




#31  
Cyclohexane  
Concen: 1.142 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016877.D  
Acq: 19 Jun 2020 14:21

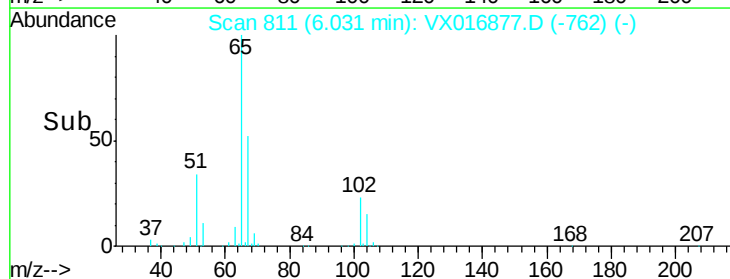
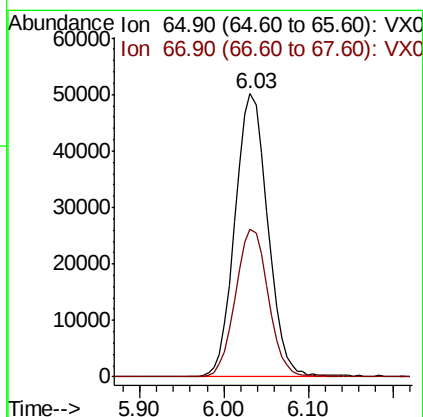
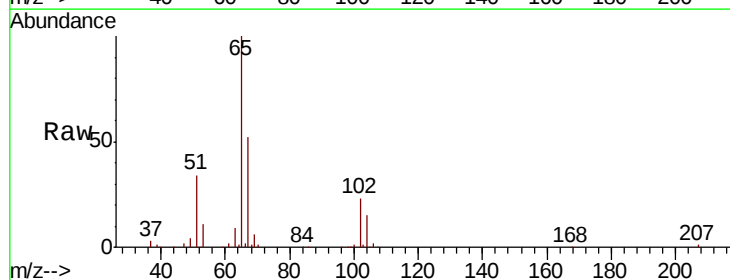
Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-200616

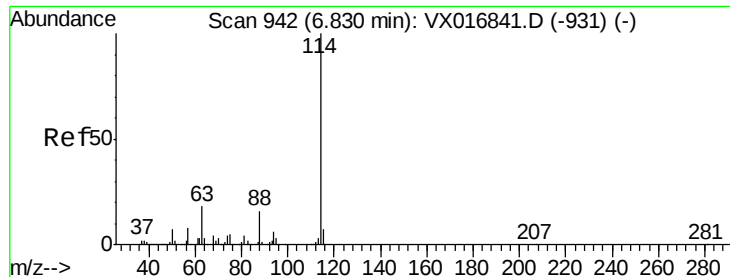
Tot Ion: 56 Resp: 4527  
Ion Ratio Lower Upper  
56 100  
69 192.5 26.1 39.1#  
84 139.2 73.0 109.6#



#33  
1,2-Dichloroethane-d4  
Concen: 41.166 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. 0.00 min  
Lab File: VX016877.D  
Acq: 19 Jun 2020 14:21

Tgt Ion: 65 Resp: 132002  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-200616

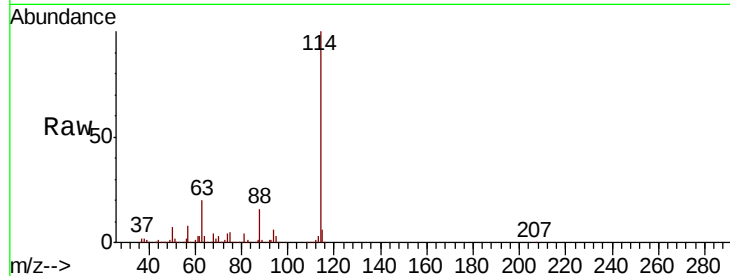
Tot Ion:114 Resp: 424970

Ion Ratio Lower Upper

114 100

63 19.6 0.0 37.0

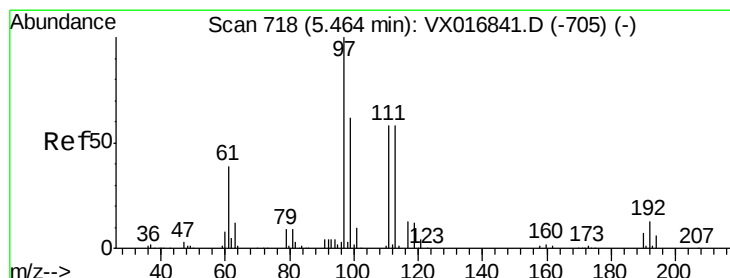
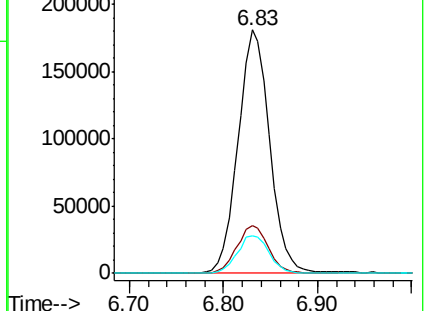
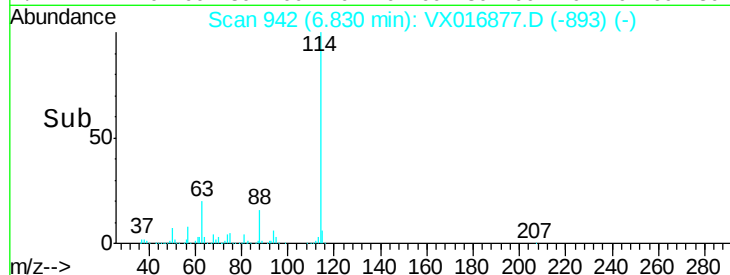
88 15.6 0.0 32.0



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: 41.940 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

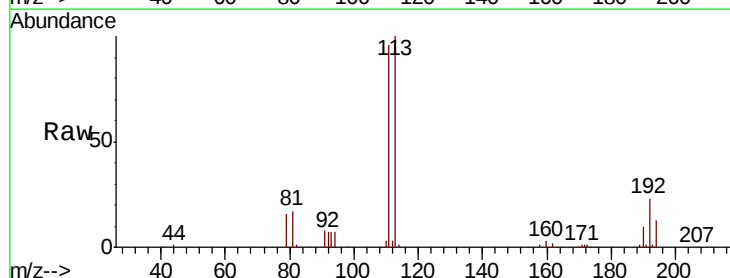
Tgt Ion:113 Resp: 114016

Ion Ratio Lower Upper

113 100

111 101.9 81.0 121.4

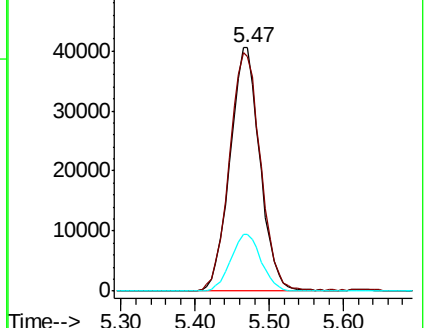
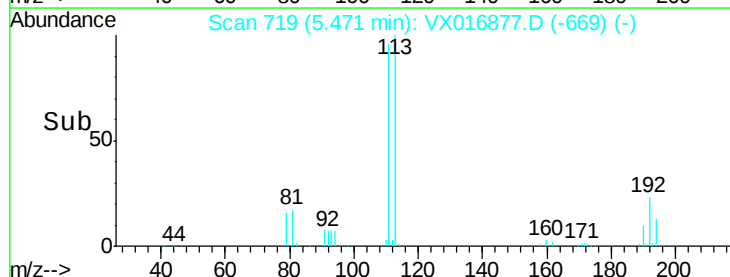
192 23.8 18.5 27.7

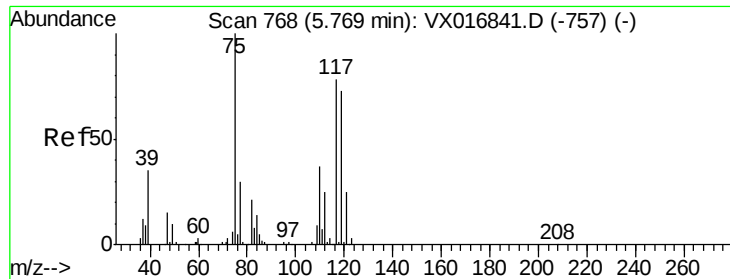


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.652 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-200616

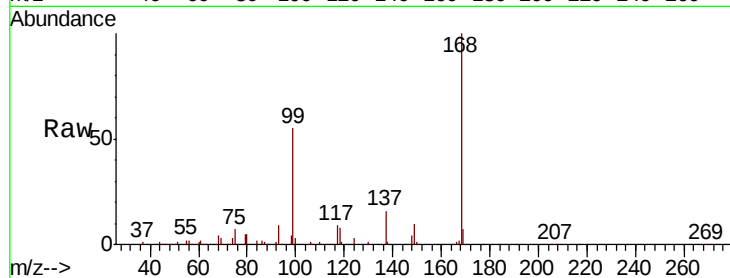
Tot Ion: 75 Resp: 18252

Ion Ratio Lower Upper

75 100

110 9.3 18.9 56.9#

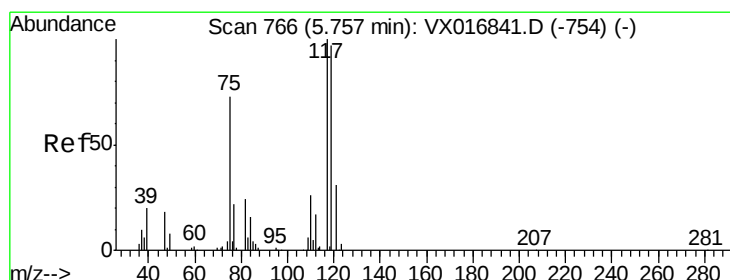
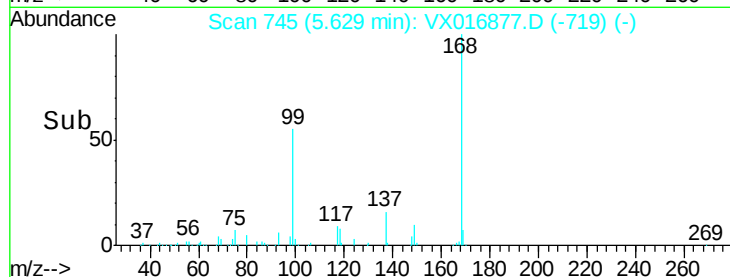
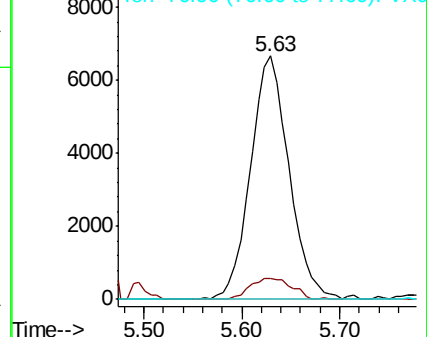
77 0.0 25.6 38.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.564 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

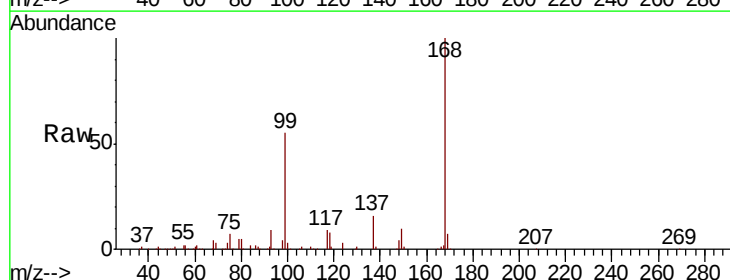
Tgt Ion: 117 Resp: 24495

Ion Ratio Lower Upper

117 100

119 7.9 77.4 116.2#

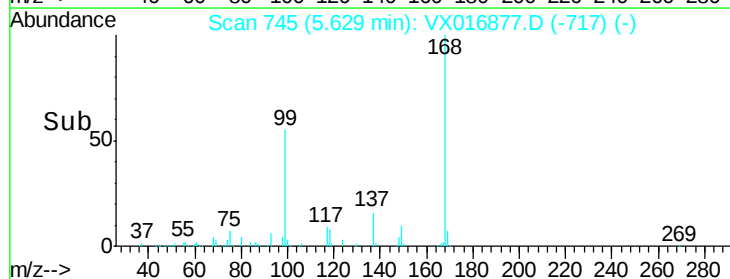
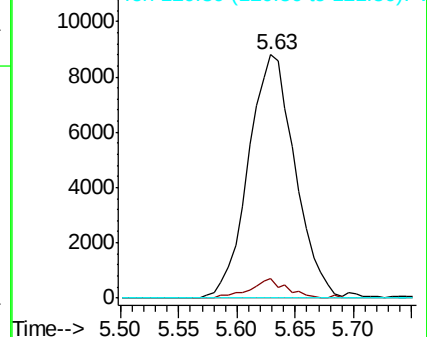
121 0.0 24.7 37.1#

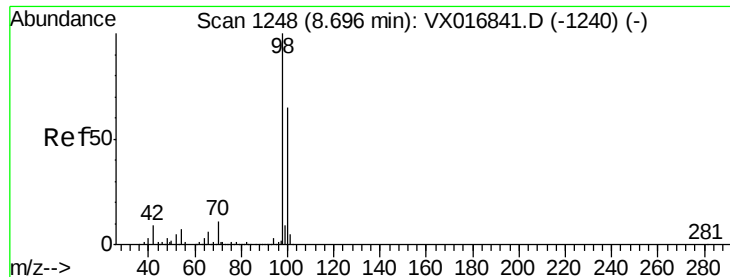


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.813 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

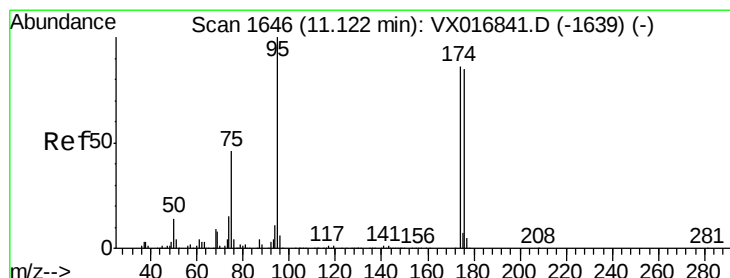
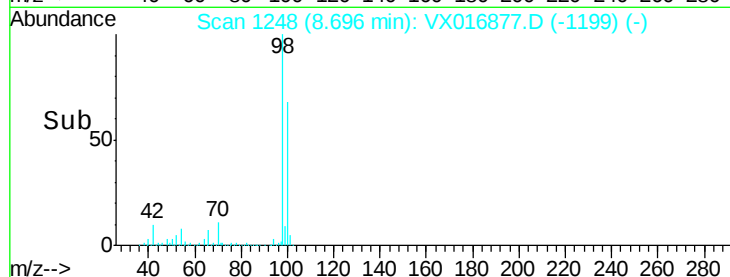
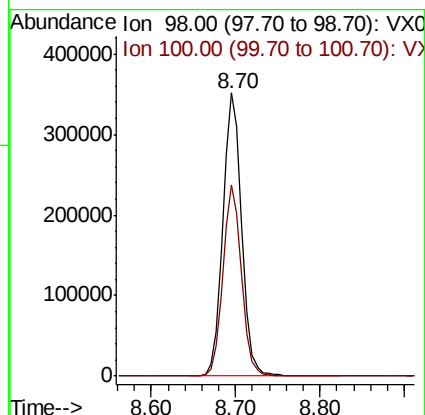
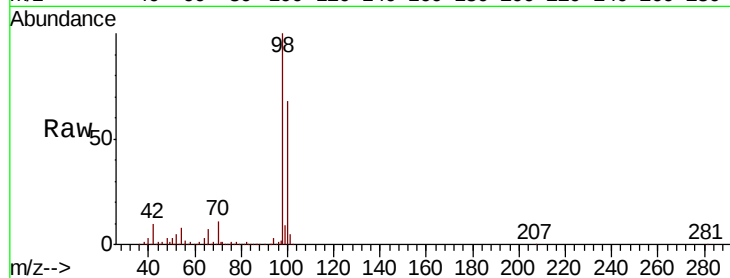
TB-01-200616

Tot Ion: 98 Resp: 541787

Ion Ratio Lower Upper

98 100

100 66.7 54.0 81.0



#62

4-Bromofluorobenzene

Concen: 43.898 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

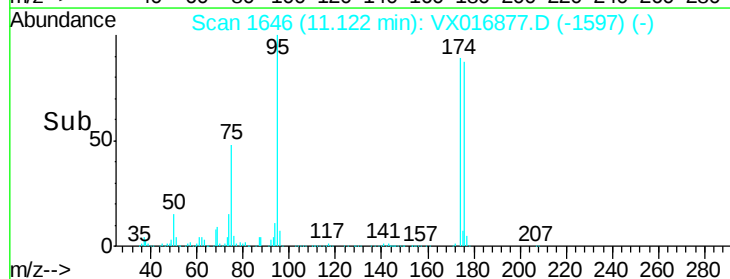
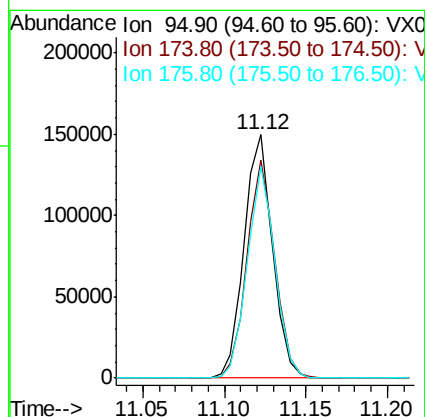
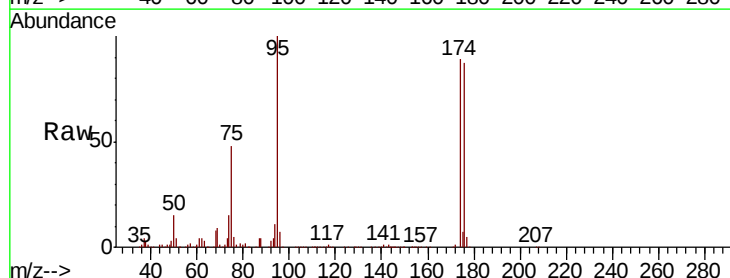
Tgt Ion: 95 Resp: 182933

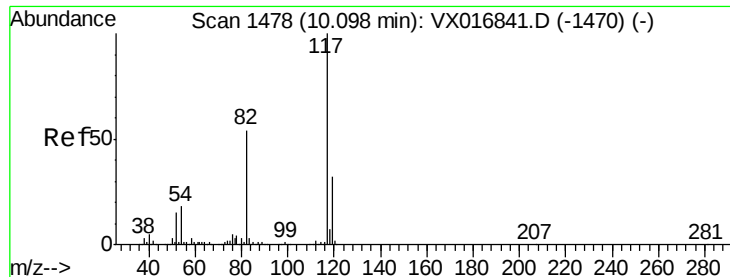
Ion Ratio Lower Upper

95 100

174 87.7 0.0 174.2

176 84.5 0.0 170.0

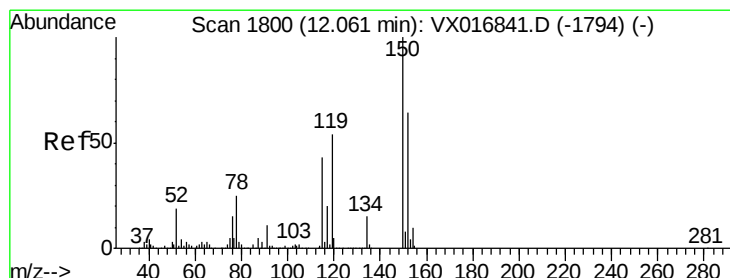
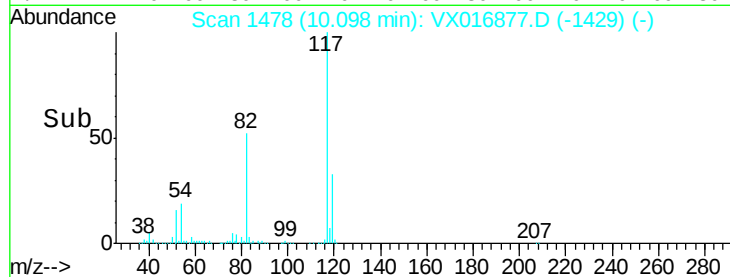
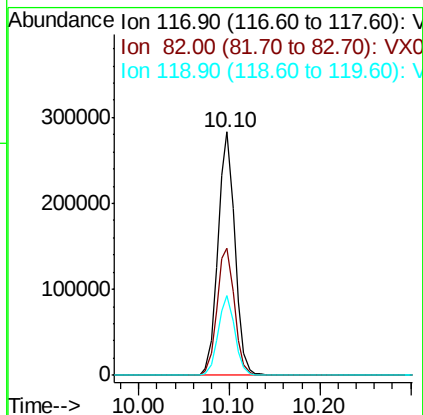
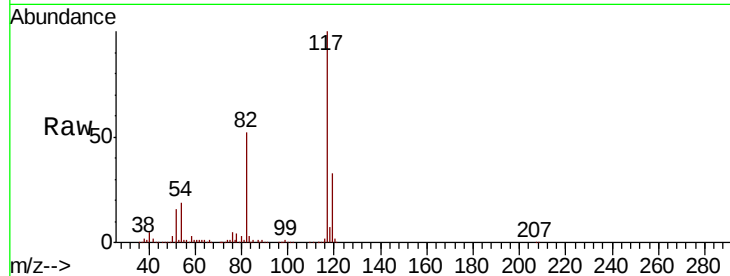




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX016877.D  
Acq: 19 Jun 2020 14:21

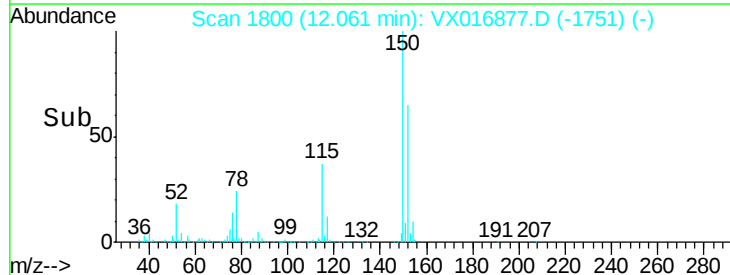
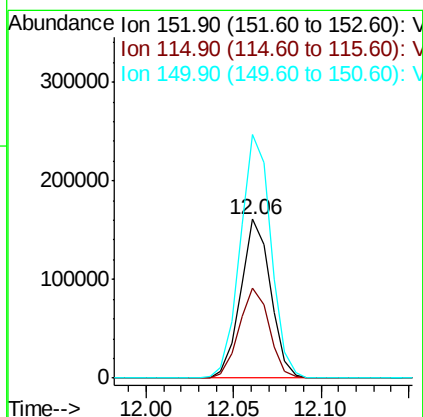
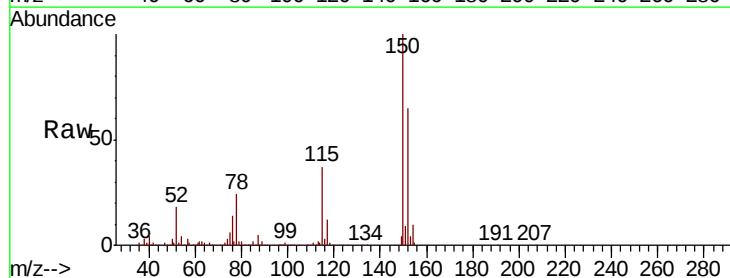
Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-200616

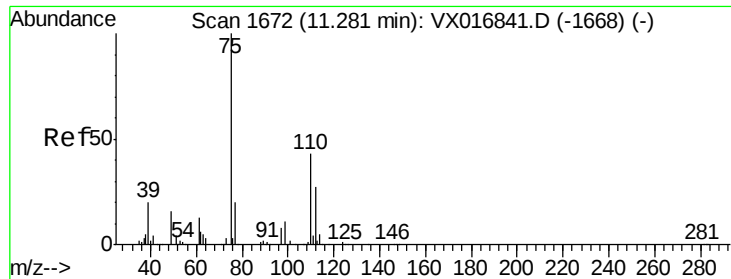
Tot Ion:117 Resp: 370022  
Ion Ratio Lower Upper  
117 100  
82 52.4 43.4 65.0  
119 32.9 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. 0.00 min  
Lab File: VX016877.D  
Acq: 19 Jun 2020 14:21

Tgt Ion:152 Resp: 191924  
Ion Ratio Lower Upper  
152 100  
115 57.0 40.9 122.8  
150 157.0 0.0 344.2





#76

1,2,3-Trichloropropane

Concen: 25.090 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

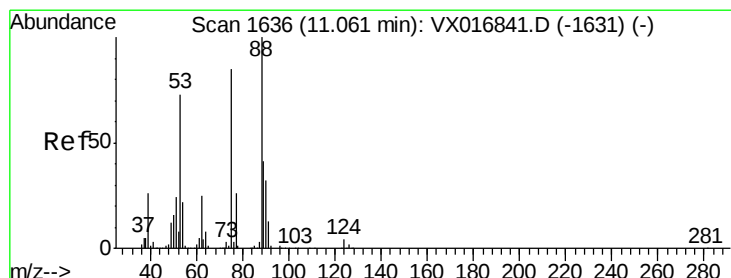
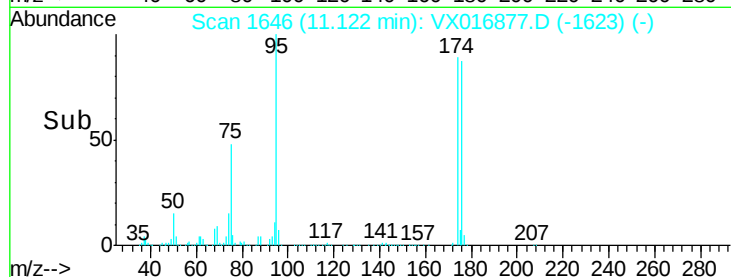
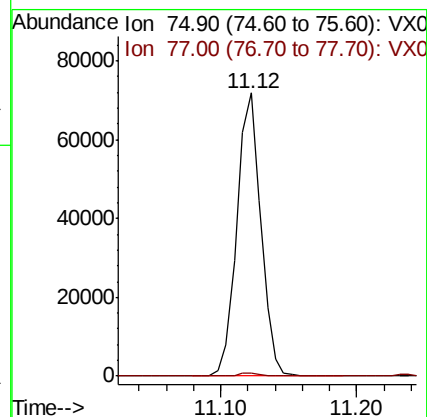
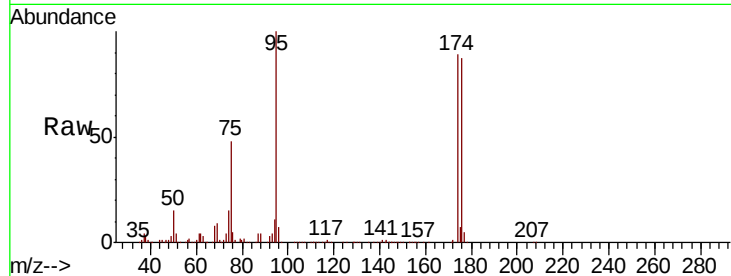
TB-01-200616

Tot Ion: 75 Resp: 87946

Ion Ratio Lower Upper

75 100

77 1.2 20.5 61.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.443 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016877.D

Acq: 19 Jun 2020 14:21

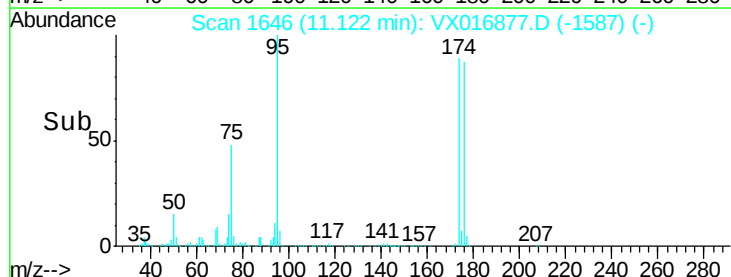
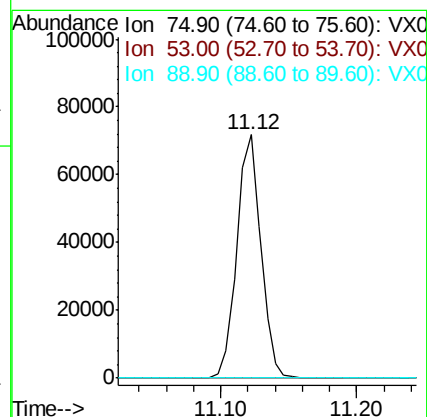
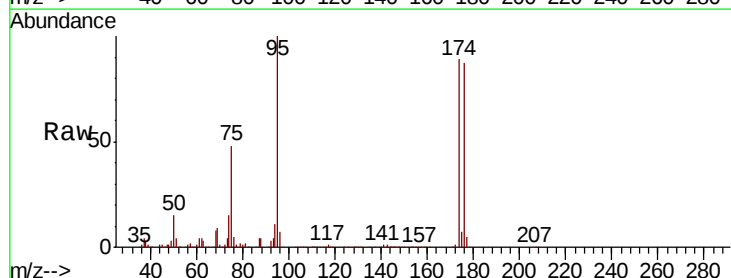
Tgt Ion: 75 Resp: 87946

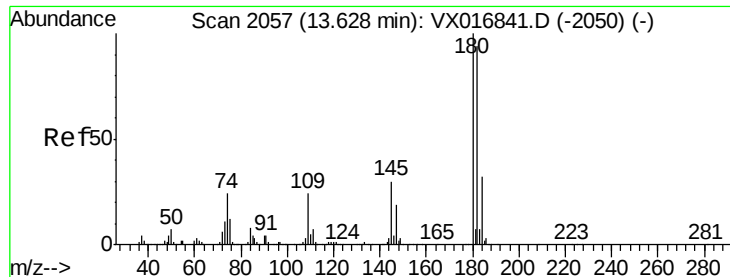
Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.8#

89 0.0 38.3 57.5#

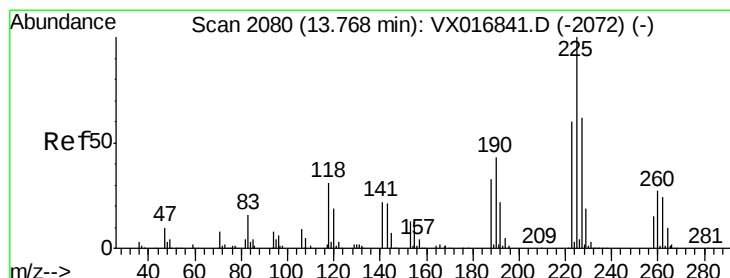
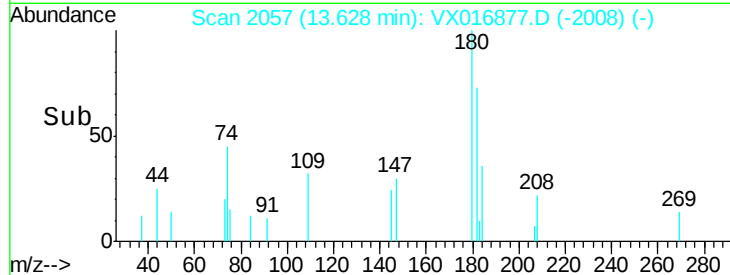
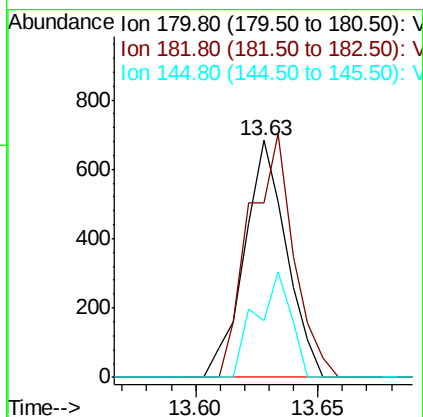
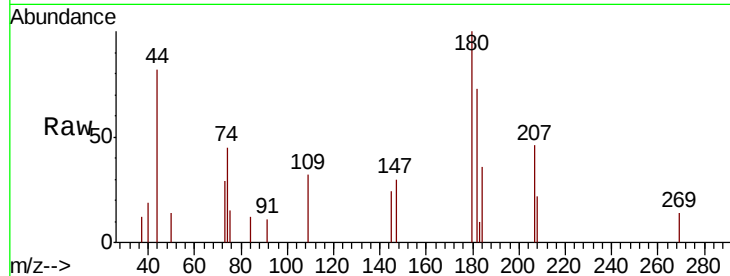




#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.206 ug/l  
 RT: 13.63 min Scan# 2057  
 Delta R.T. 0.00 min  
 Lab File: VX016877.D  
 Acq: 19 Jun 2020 14:21

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB-01-200616

Tot Ion:180 Resp: 823  
 Ion Ratio Lower Upper  
 180 100  
 182 108.1 47.7 143.1  
 145 36.6 15.0 45.1



#94  
 Hexachlorobutadiene  
 Concen: 0.237 ug/l  
 RT: 13.76 min Scan# 2079  
 Delta R.T. -0.01 min  
 Lab File: VX016877.D  
 Acq: 19 Jun 2020 14:21

Tgt Ion:225 Resp: 426  
 Ion Ratio Lower Upper  
 225 100  
 223 62.4 32.1 96.5  
 227 48.6 32.3 96.8

