

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082820\  
 Data File : VX018121.D  
 Acq On : 28 Aug 2020 15:30  
 Operator : JC/SP  
 Sample : L3831-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-01-20200827

Quant Time: Aug 29 03:06:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 565927   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 946444   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 906137   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 425273   | 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   | 396588   | 50.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.96% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 321242   | 49.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.68%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 1176427  | 49.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.00%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 438886   | 46.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.92%  |          |

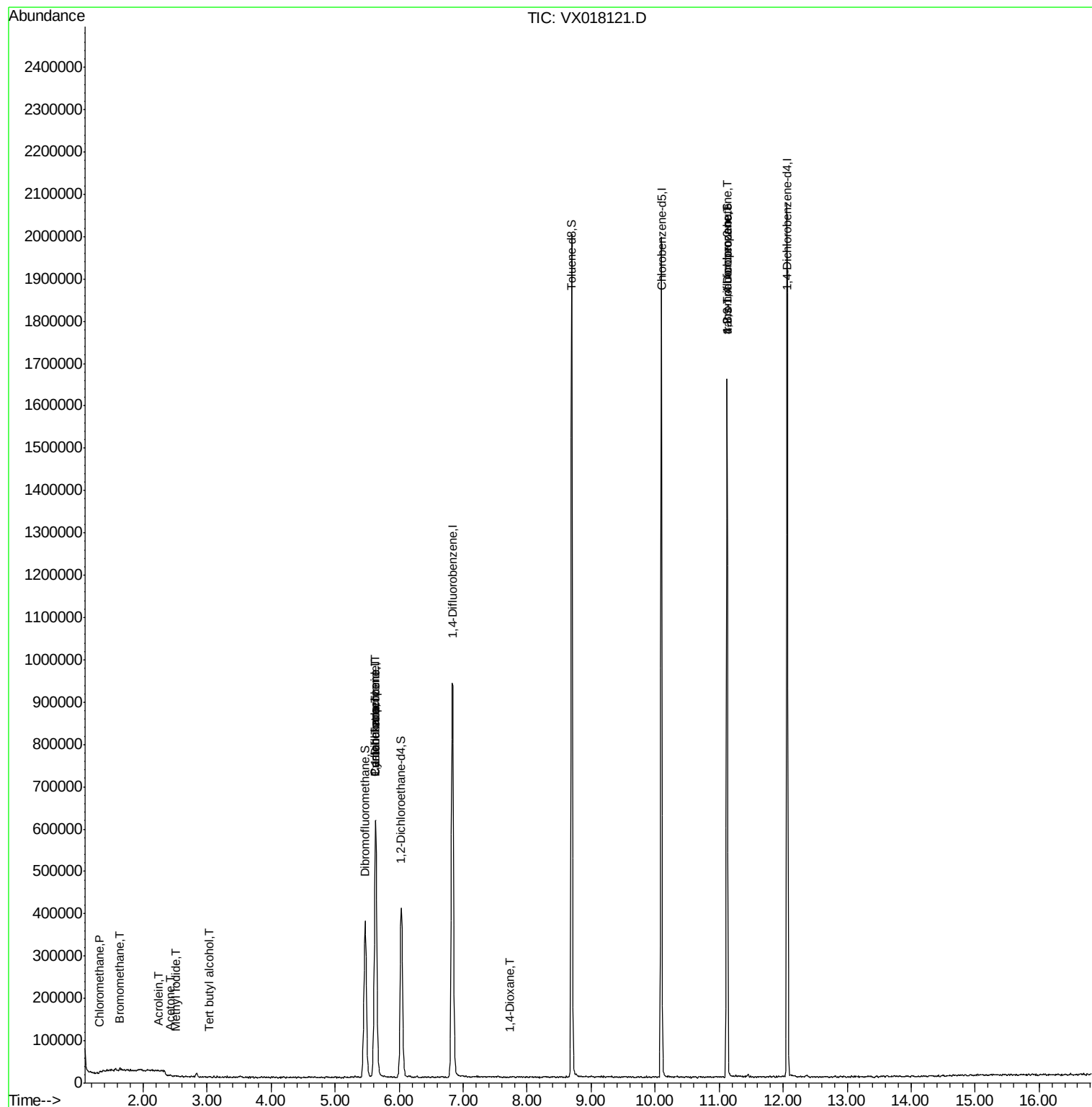
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1625     | 0.224     | ug/l # | 42     |
| 5) Bromomethane                | 1.64  | 94   | 873      | 0.250     | ug/l # | 79     |
| 10) Methyl Iodide              | 2.50  | 142  | 328      | 5.338     | ug/l # | 81     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 340      | 0.223     | ug/l # | 1      |
| 13) Acrolein                   | 2.23  | 56   | 506      | 0.799     | ug/l # | 14     |
| 16) Acetone                    | 2.42  | 43   | 1568     | 0.512     | ug/l # | 78     |
| 20) Methylene Chloride         | 2.84  | 84   | 4395     | Below Cal | #      | 73     |
| 31) Cyclohexane                | 5.64  | 56   | 10919    | 1.161     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 44072    | 5.049     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 60416    | 6.141     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.72  | 88   | 167      | 1.131     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 218834   | 23.132    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 218834   | 62.475    | ug/l # | 12     |

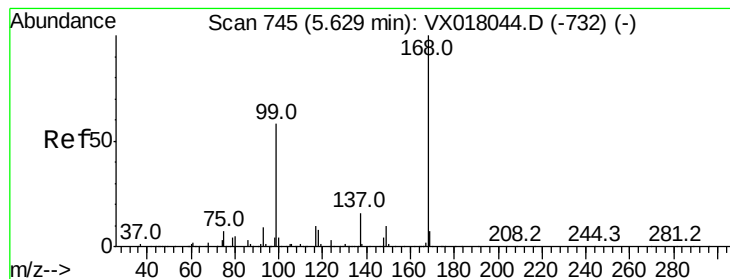
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

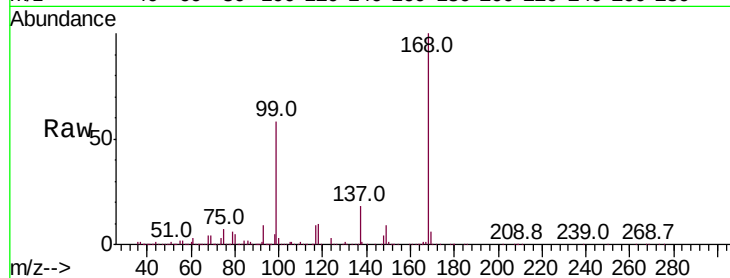
TB-01-20200827

Tot Ion:168 Resp: 565927

Ion Ratio Lower Upper

168 100

99 58.2 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

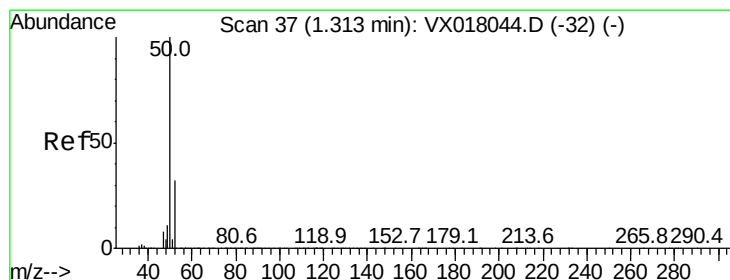
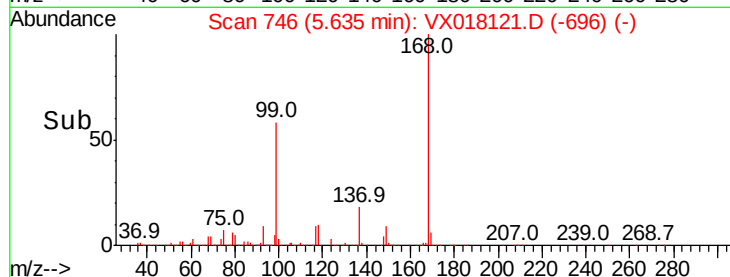
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.224 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018121.D

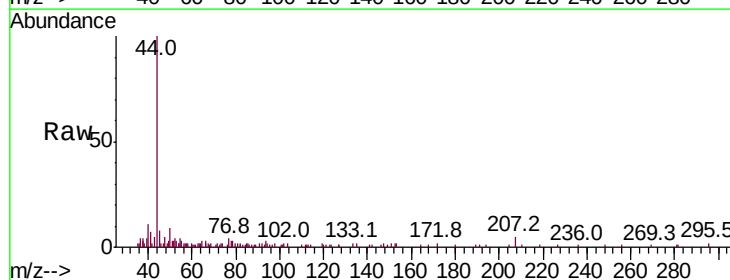
Acq: 28 Aug 2020 15:30

Tgt Ion: 50 Resp: 1625

Ion Ratio Lower Upper

50 100

52 64.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

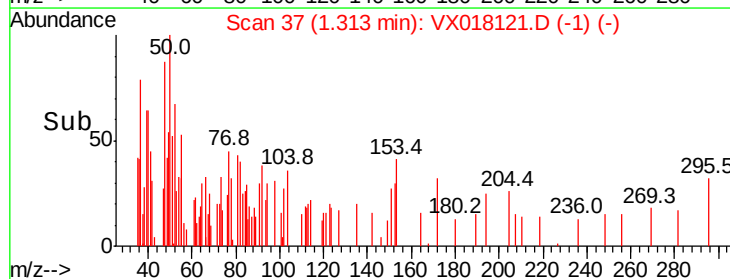
600

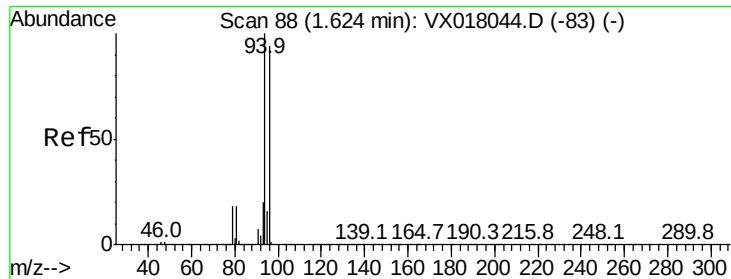
400

200

0

Time-->





#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

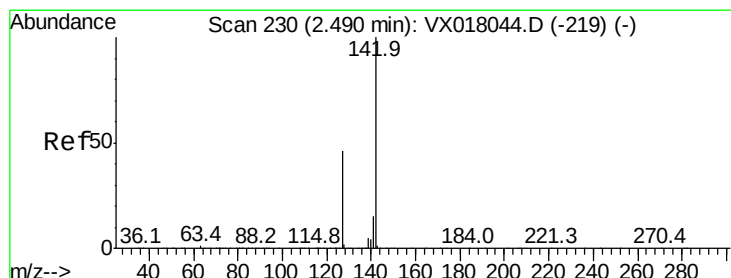
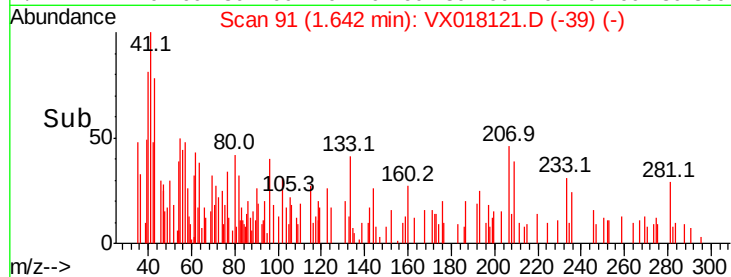
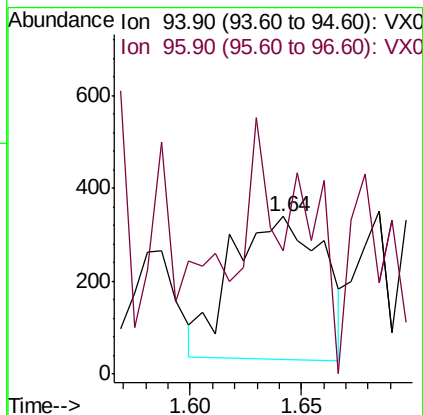
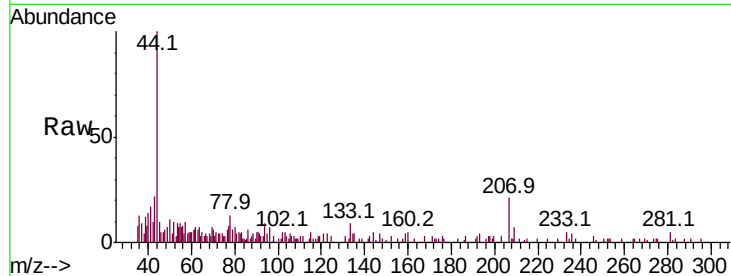
TB-01-20200827

Tot Ion: 94 Resp: 873

Ion Ratio Lower Upper

94 100

96 113.2 74.8 112.2#



#10

Methyl Iodide

Concen: 5.338 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

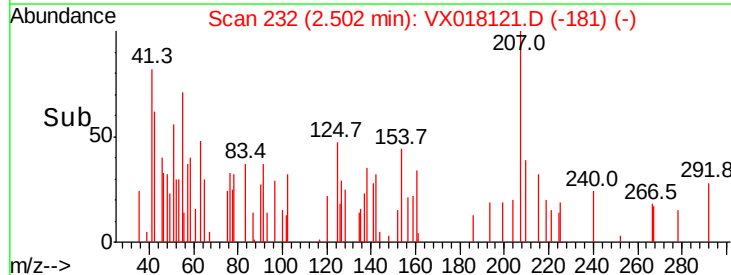
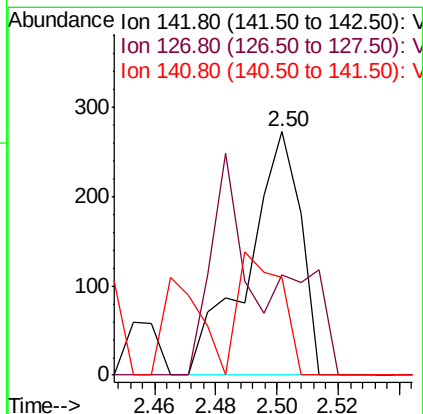
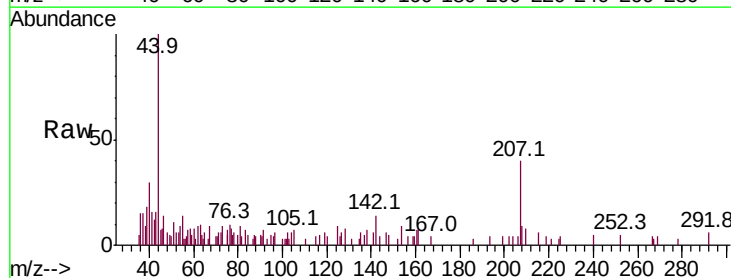
Tgt Ion: 142 Resp: 328

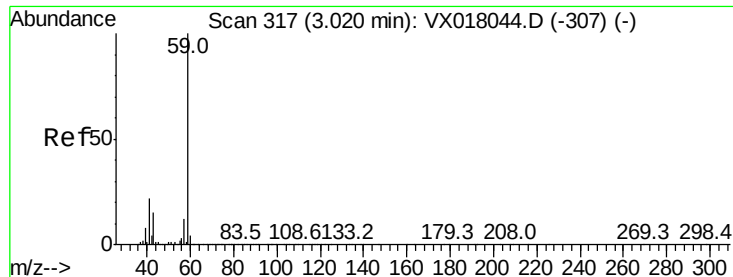
Ion Ratio Lower Upper

142 100

127 37.2 37.0 55.6

141 0.0 11.5 17.3#



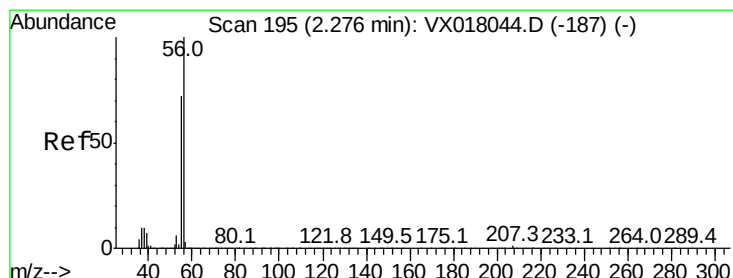
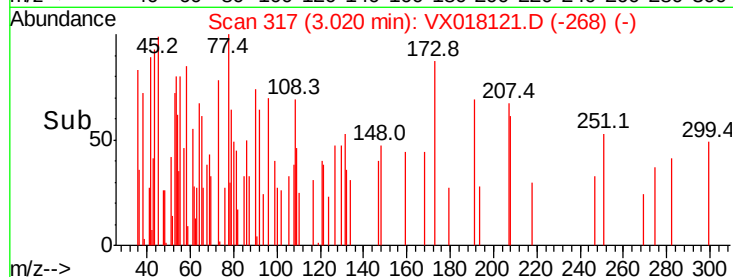
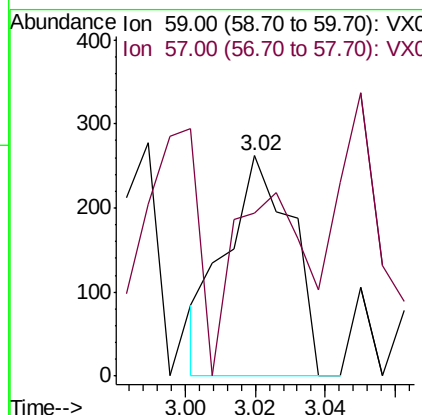
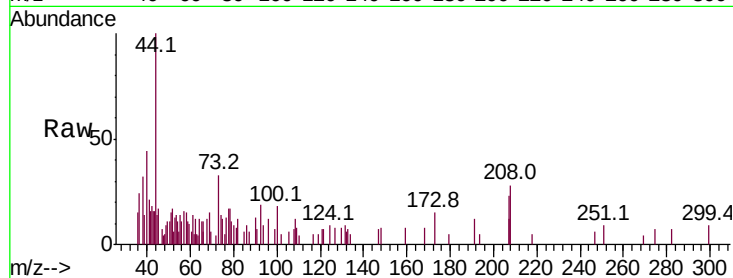


#11

Tert butyl alcohol  
Concen: 0.223 ug/l  
RT: 3.02 min Scan# 317  
Delta R.T. -0.00 min  
Lab File: VX018121.D  
Acq: 28 Aug 2020 15:30

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-20200827

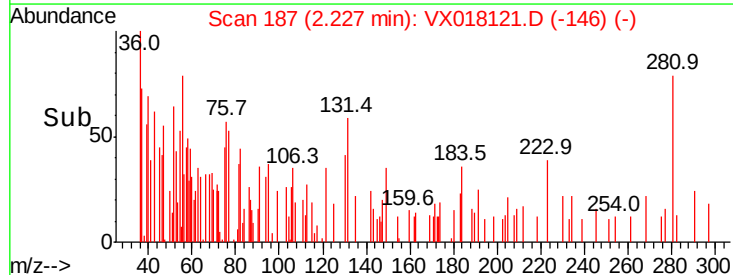
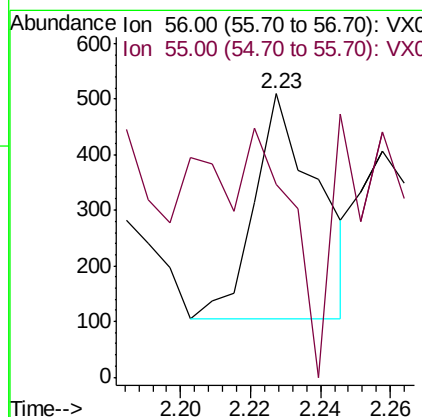
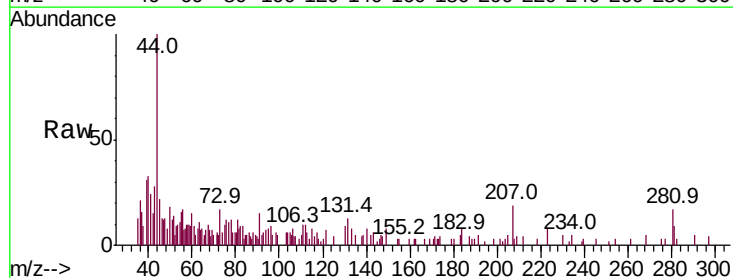
Tot Ion: 59 Resp: 340  
Ion Ratio Lower Upper  
59 100  
57 92.9 8.9 13.3#

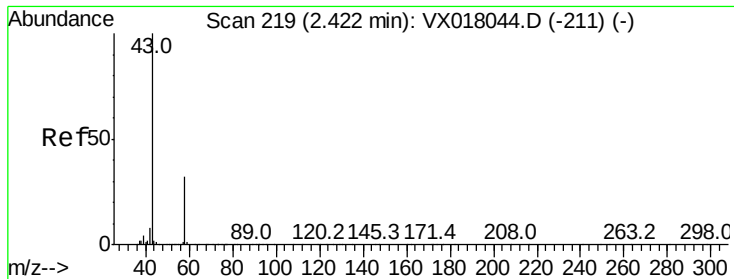


#13

Acrolein  
Concen: 0.799 ug/l  
RT: 2.23 min Scan# 187  
Delta R.T. -0.05 min  
Lab File: VX018121.D  
Acq: 28 Aug 2020 15:30

Tgt Ion: 56 Resp: 506  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.0 85.6#





#16

Acetone

Concen: 0.512 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

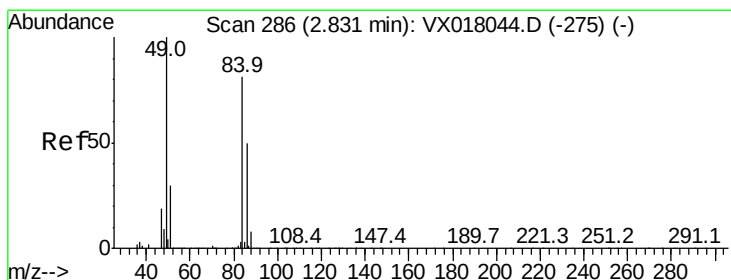
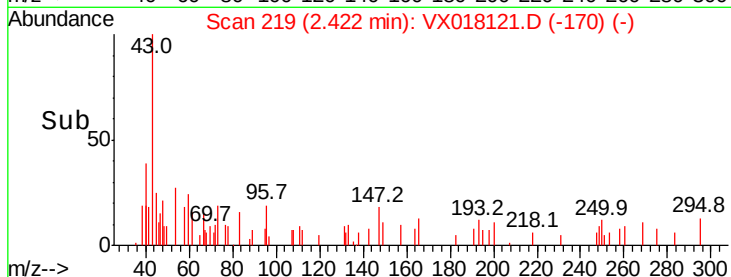
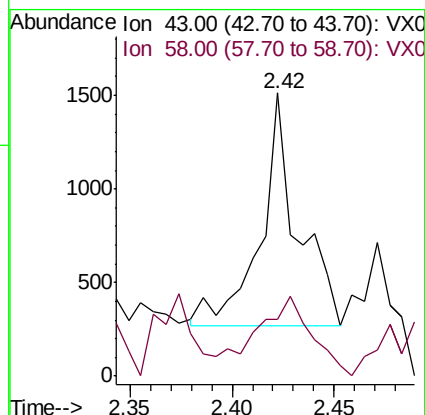
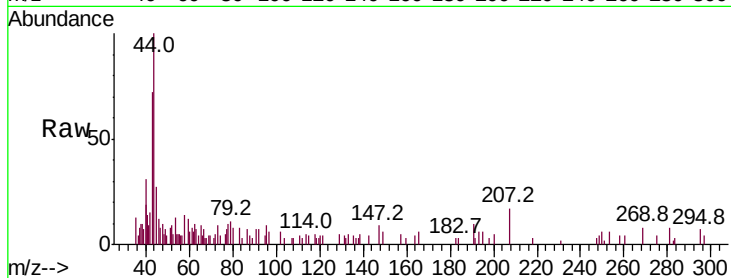
TB-01-20200827

Tot Ion: 43 Resp: 1568

Ion Ratio Lower Upper

43 100

58 19.7 25.5 38.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Tgt Ion: 84 Resp: 4395

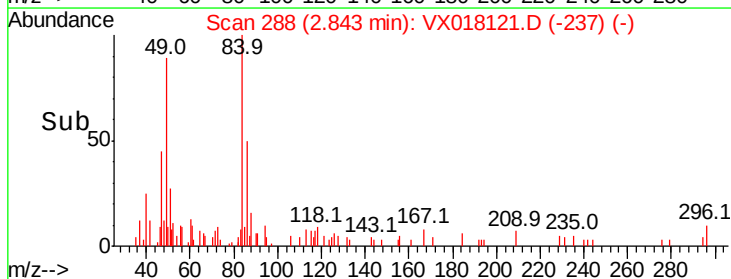
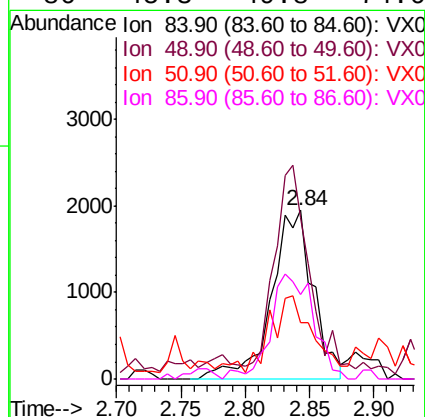
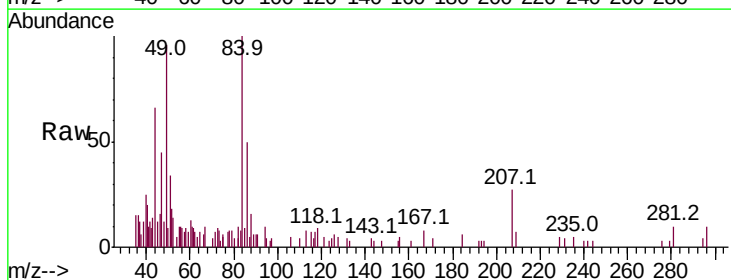
Ion Ratio Lower Upper

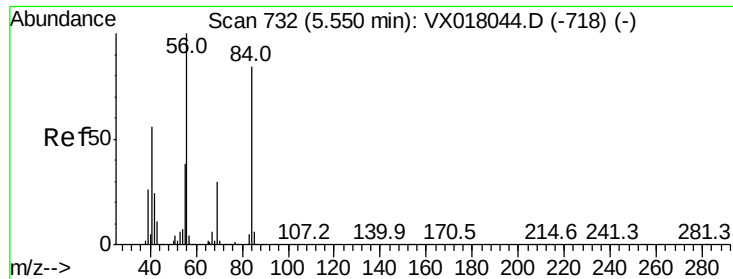
84 100

49 87.2 98.6 148.0#

51 26.4 29.6 44.4#

86 45.3 49.8 74.6#

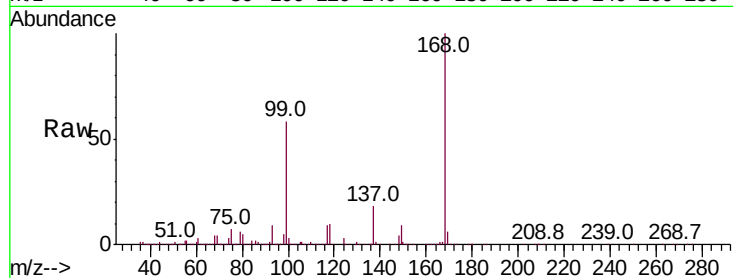




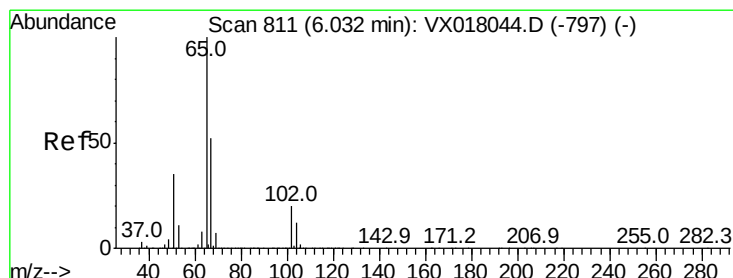
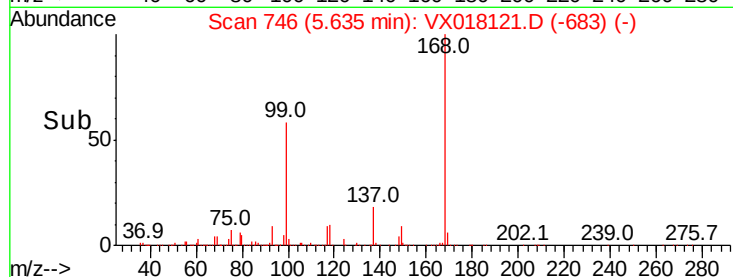
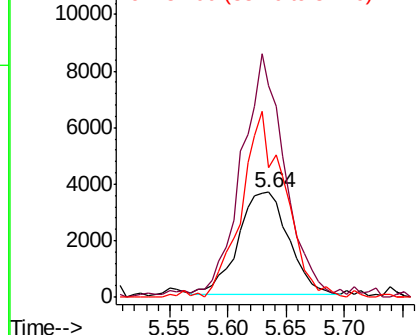
#31  
Cyclohexane  
Concen: 1.161 ug/l  
RT: 5.64 min Scan# 746  
Delta R.T. 0.09 min  
Lab File: VX018121.D  
Acq: 28 Aug 2020 15:30

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-20200827

Tot Ion: 56 Resp: 10919  
Ion Ratio Lower Upper  
56 100  
69 204.4 23.9 35.9#  
84 125.7 67.0 100.4#

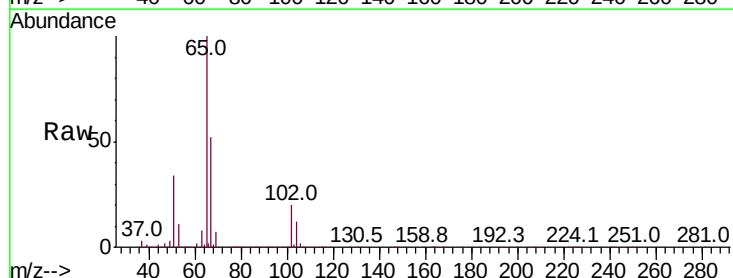


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

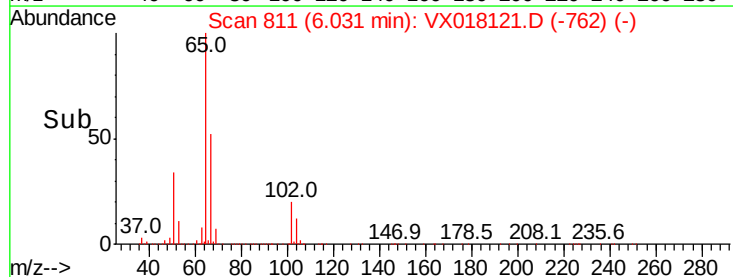
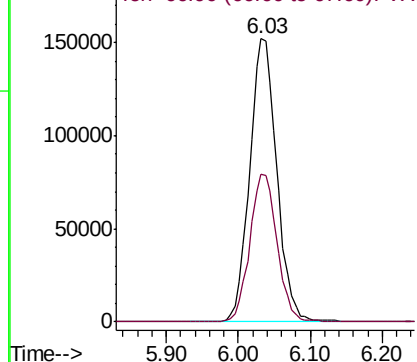


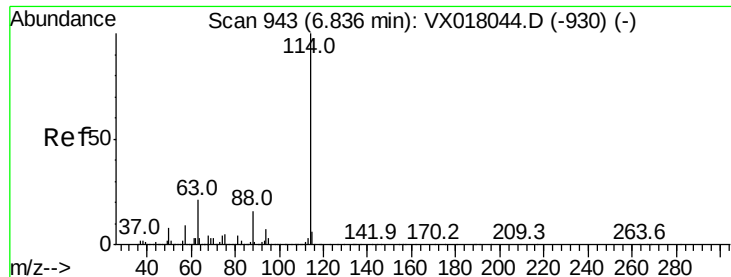
#33  
1,2-Dichloroethane-d4  
Concen: 50.479 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX018121.D  
Acq: 28 Aug 2020 15:30

Tgt Ion: 65 Resp: 396588  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

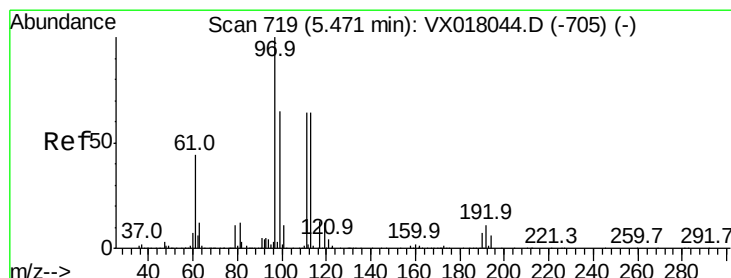
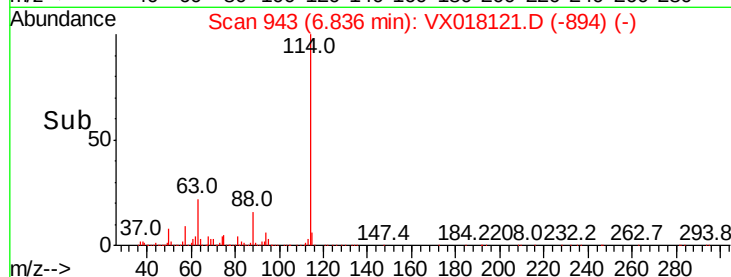
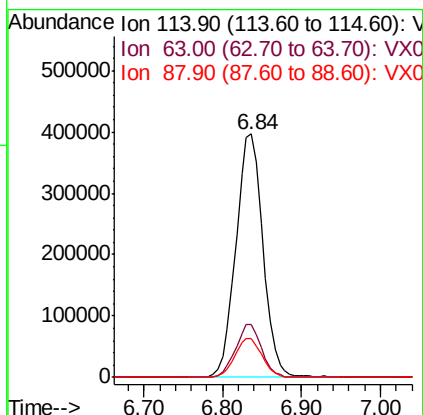
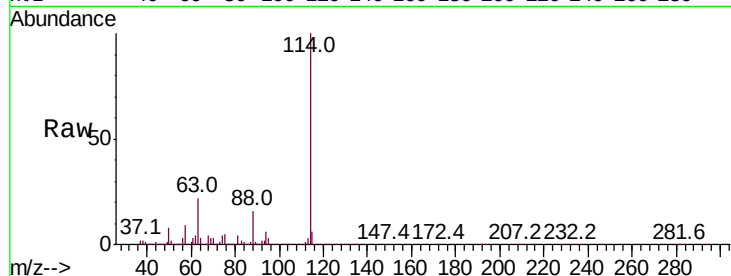




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. -0.00 min  
 Lab File: VX018121.D  
 Acq: 28 Aug 2020 15:30

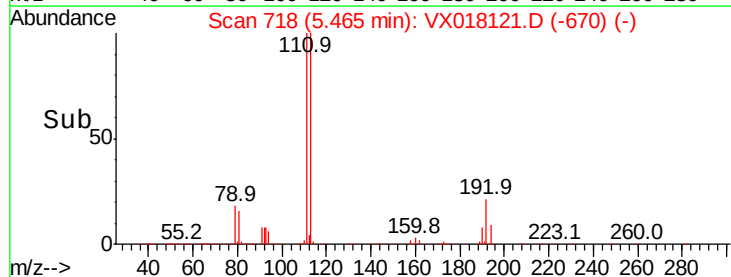
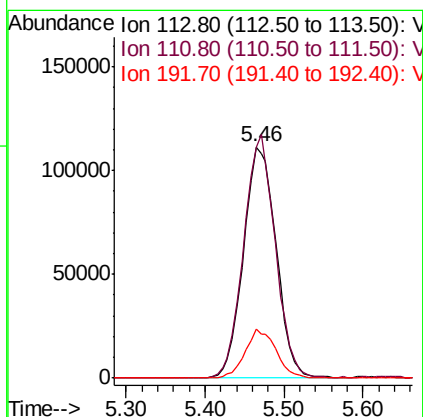
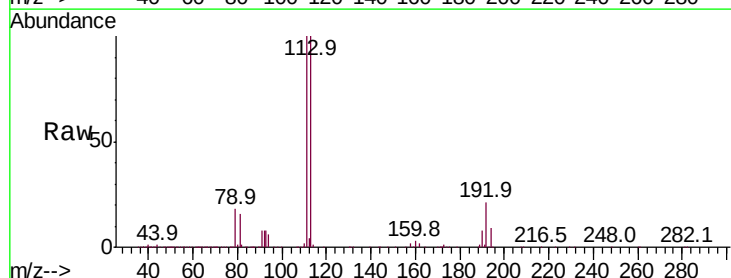
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-01-20200827

Tot Ion:114 Resp: 946444  
 Ion Ratio Lower Upper  
 114 100  
 63 21.6 0.0 42.6  
 88 15.7 0.0 31.8

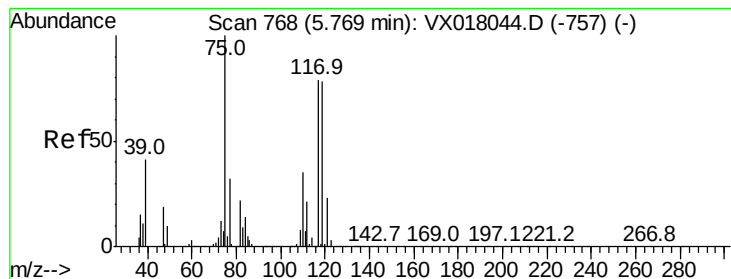


#35  
 Dibromofluoromethane  
 Concen: 49.838 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. -0.01 min  
 Lab File: VX018121.D  
 Acq: 28 Aug 2020 15:30

Tgt Ion:113 Resp: 321242  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 81.6 122.4  
 192 20.1 15.8 23.8







#36

1,1-Dichloropropene

Concen: 5.049 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-20200827

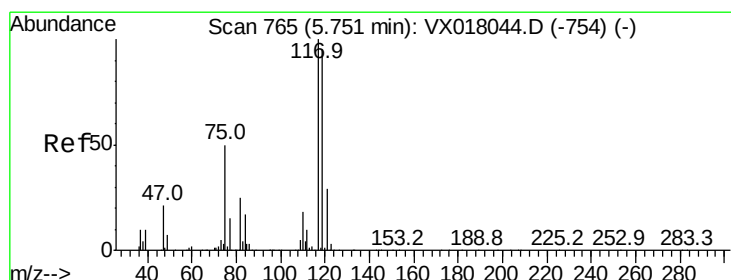
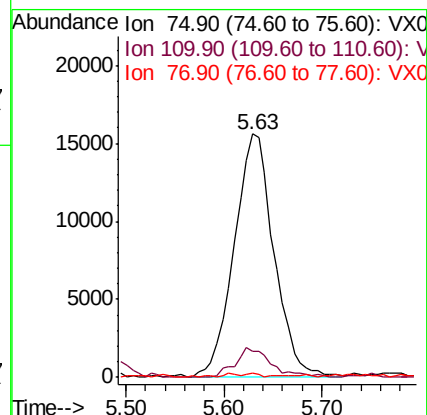
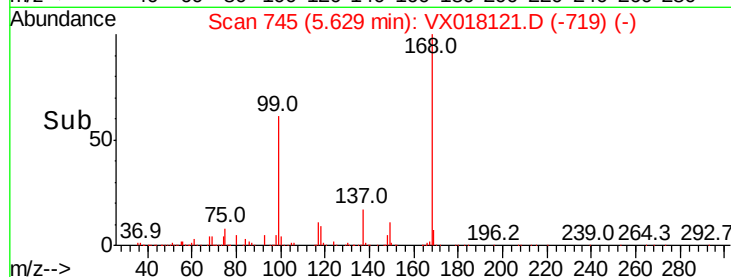
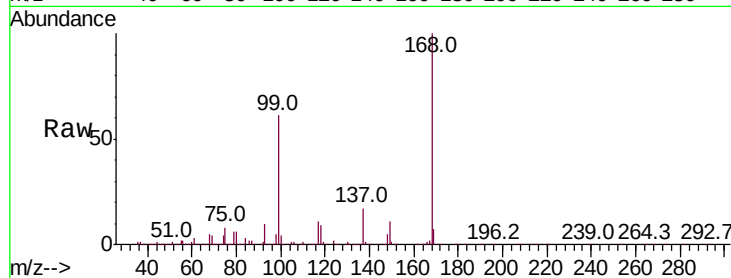
Tot Ion: 75 Resp: 44072

Ion Ratio Lower Upper

75 100

110 11.1 18.0 54.0#

77 0.6 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.141 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

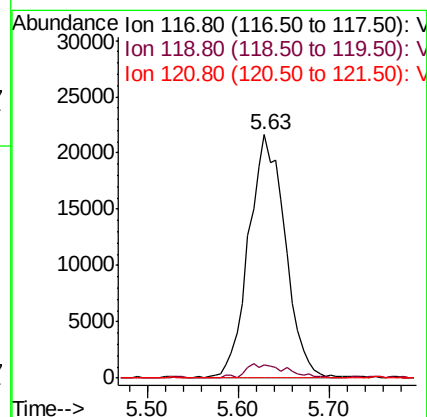
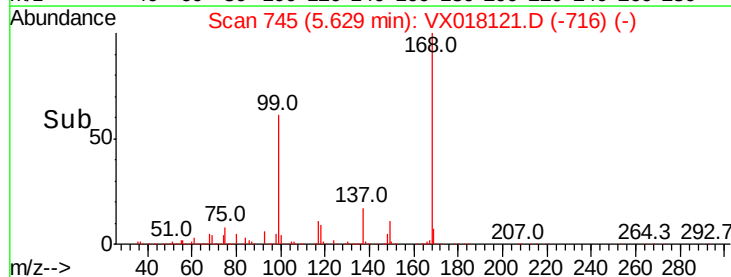
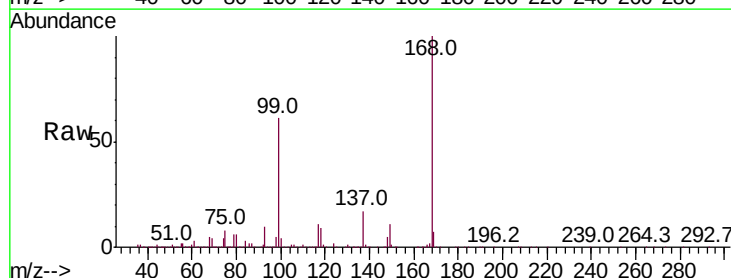
Tgt Ion: 117 Resp: 60416

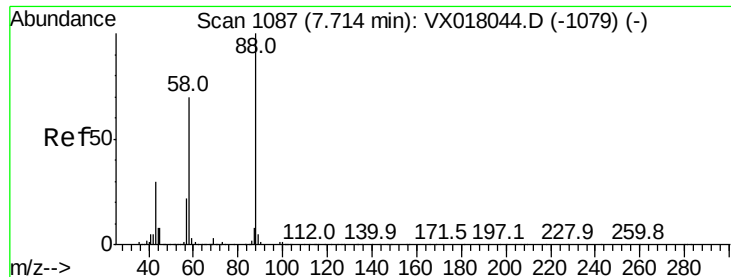
Ion Ratio Lower Upper

117 100

119 5.6 75.8 113.6#

121 0.0 23.4 35.0#





#49

1,4-Dioxane

Concen: 1.131 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-20200827

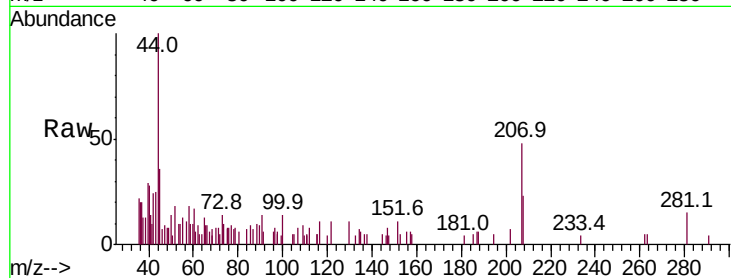
Tot Ion: 88 Resp: 167

Ion Ratio Lower Upper

88 100

43 312.6 27.4 41.0#

58 0.0 56.4 84.6#



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

800

600

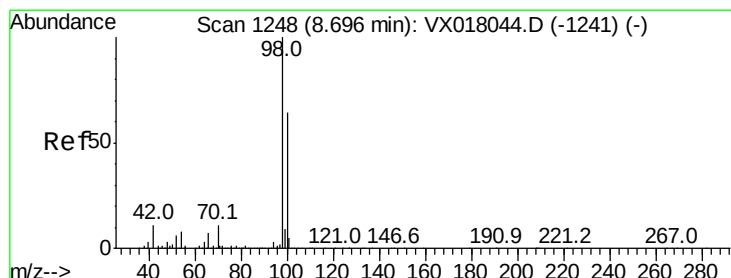
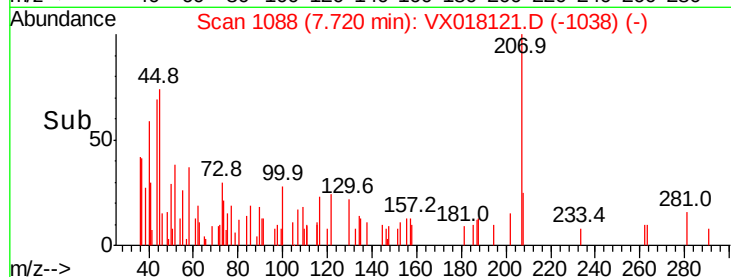
400

200

0

7.70 7.72 7.74

Time-->



#50

Toluene-d8

Concen: 49.002 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018121.D

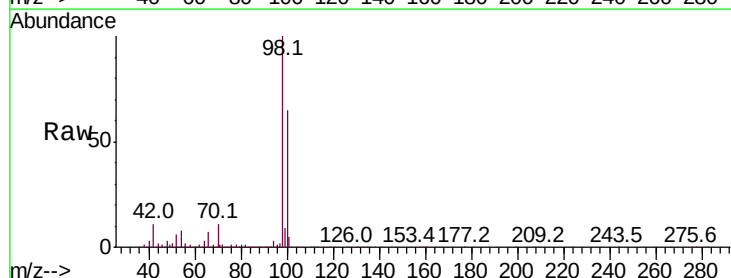
Acq: 28 Aug 2020 15:30

Tgt Ion: 98 Resp: 1176427

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

800000

600000

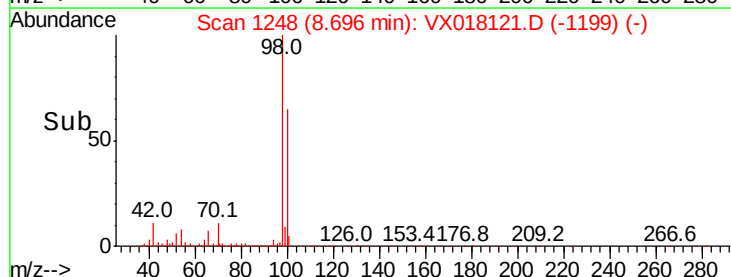
400000

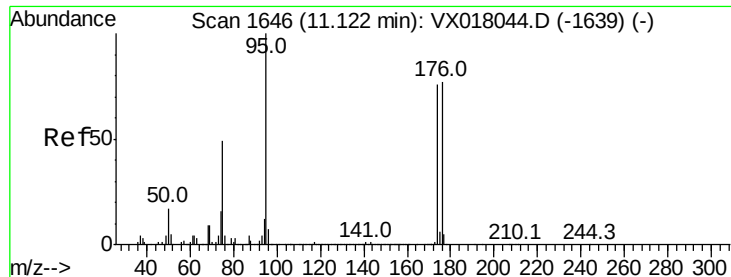
200000

0

8.60 8.70 8.80

Time-->





#62

4-Bromofluorobenzene

Concen: 46.465 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-20200827

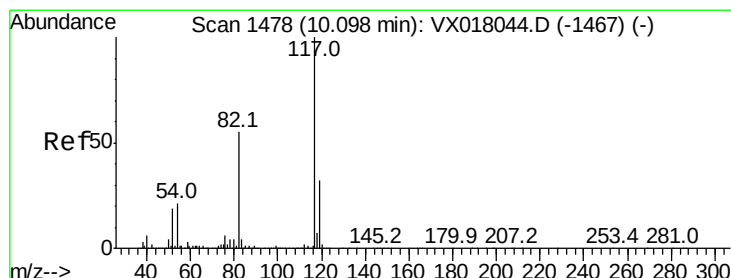
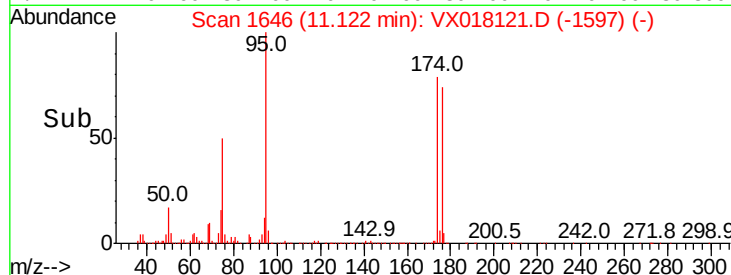
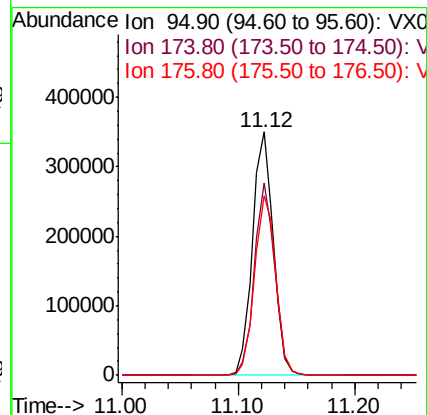
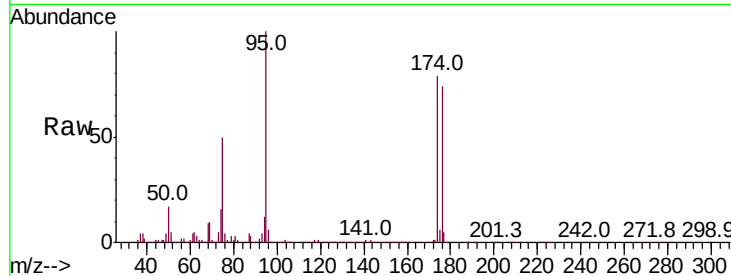
Tot Ion: 95 Resp: 438886

Ion Ratio Lower Upper

95 100

174 77.5 0.0 160.2

176 74.8 0.0 155.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

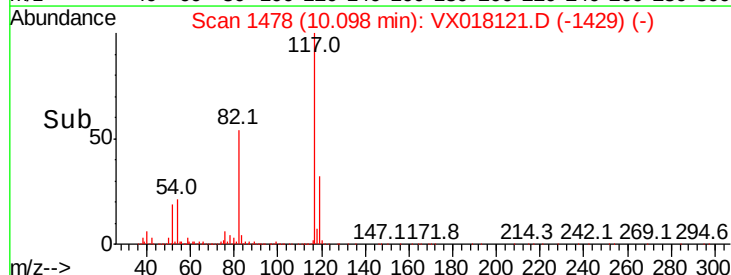
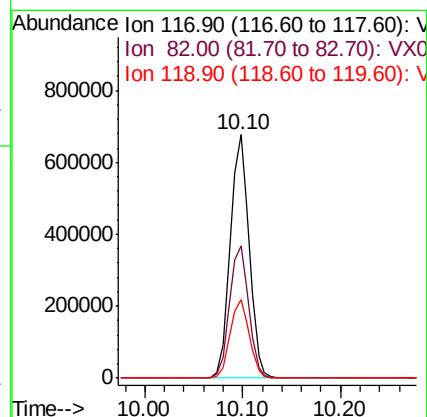
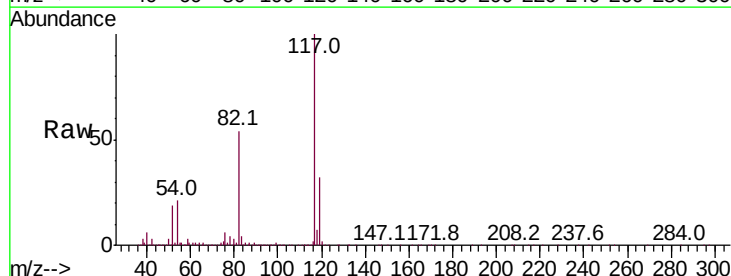
Tgt Ion: 117 Resp: 906137

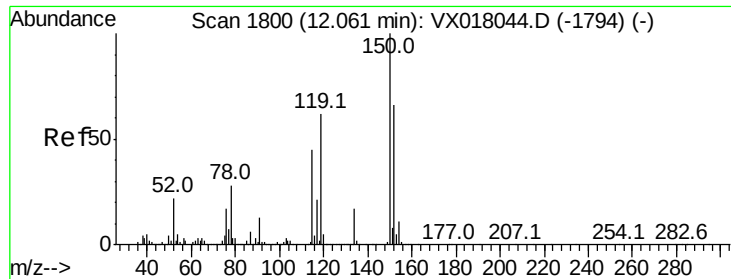
Ion Ratio Lower Upper

117 100

82 54.5 44.2 66.2

119 32.5 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: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-20200827

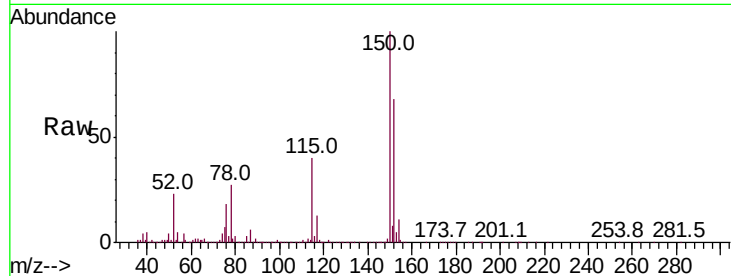
Tot Ion:152 Resp: 425273

Ion Ratio Lower Upper

152 100

115 59.8 41.5 124.5

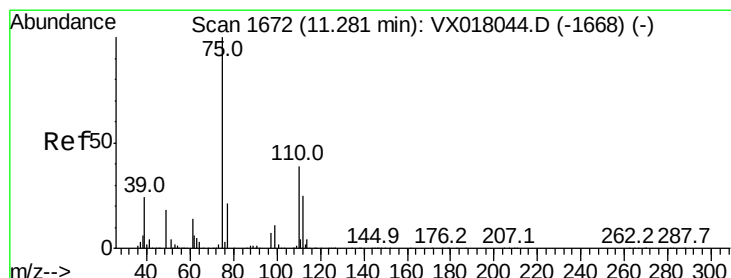
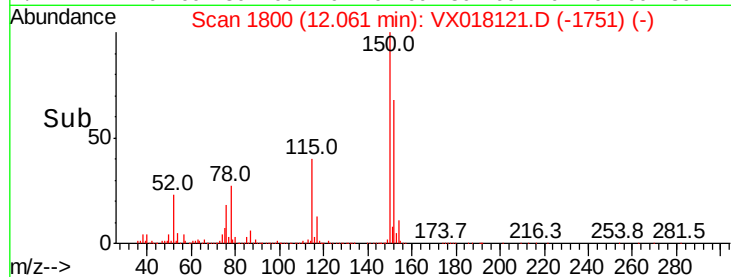
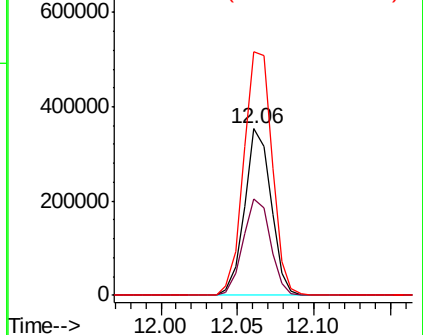
150 156.1 0.0 343.8



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: 23.132 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018121.D

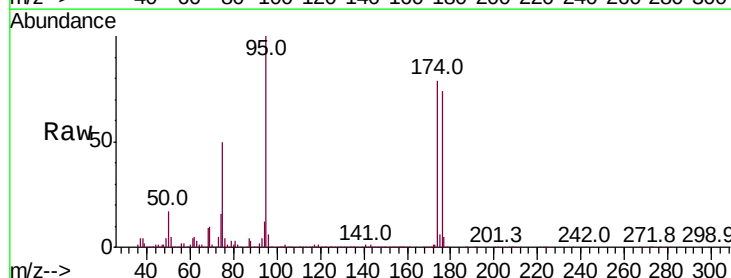
Acq: 28 Aug 2020 15:30

Tgt Ion: 75 Resp: 218834

Ion Ratio Lower Upper

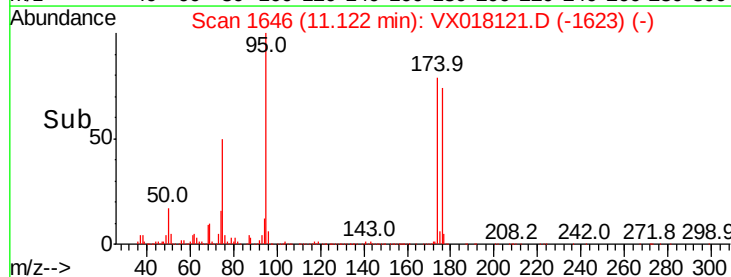
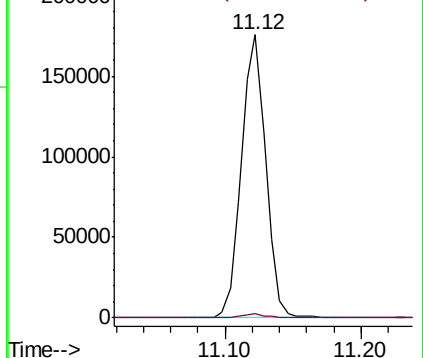
75 100

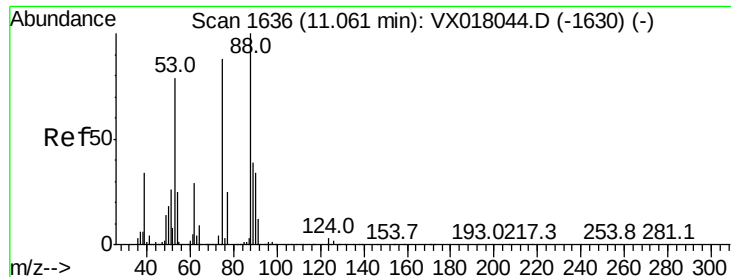
77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.475 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018121.D

Acq: 28 Aug 2020 15:30

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-20200827

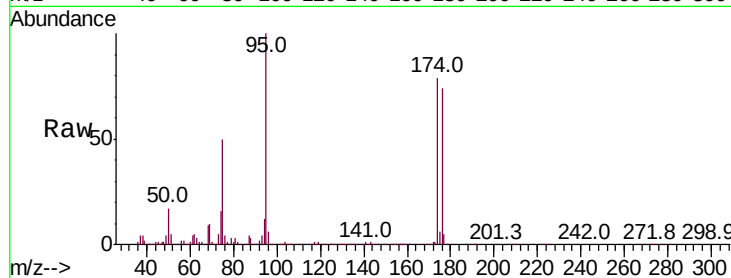
Tot Ion: 75 Resp: 218834

Ion Ratio Lower Upper

75 100

53 0.2 74.7 112.1#

89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

