

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090320\  
 Data File : VX018223.D  
 Acq On : 03 Sep 2020 10:38  
 Operator : JC/SP  
 Sample : VX0903WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0903WBL01

Quant Time: Sep 04 01:18:47 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      | 5.63  | 168  | 488179   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 791298   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 738515   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 356020   | 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   | 355091   | 52.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.80% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 276281   | 51.27 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 102.54% |          |
| 50) Toluene-d8              | 8.70  | 98   | 955625   | 47.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.22%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 349814   | 44.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.60%  |          |

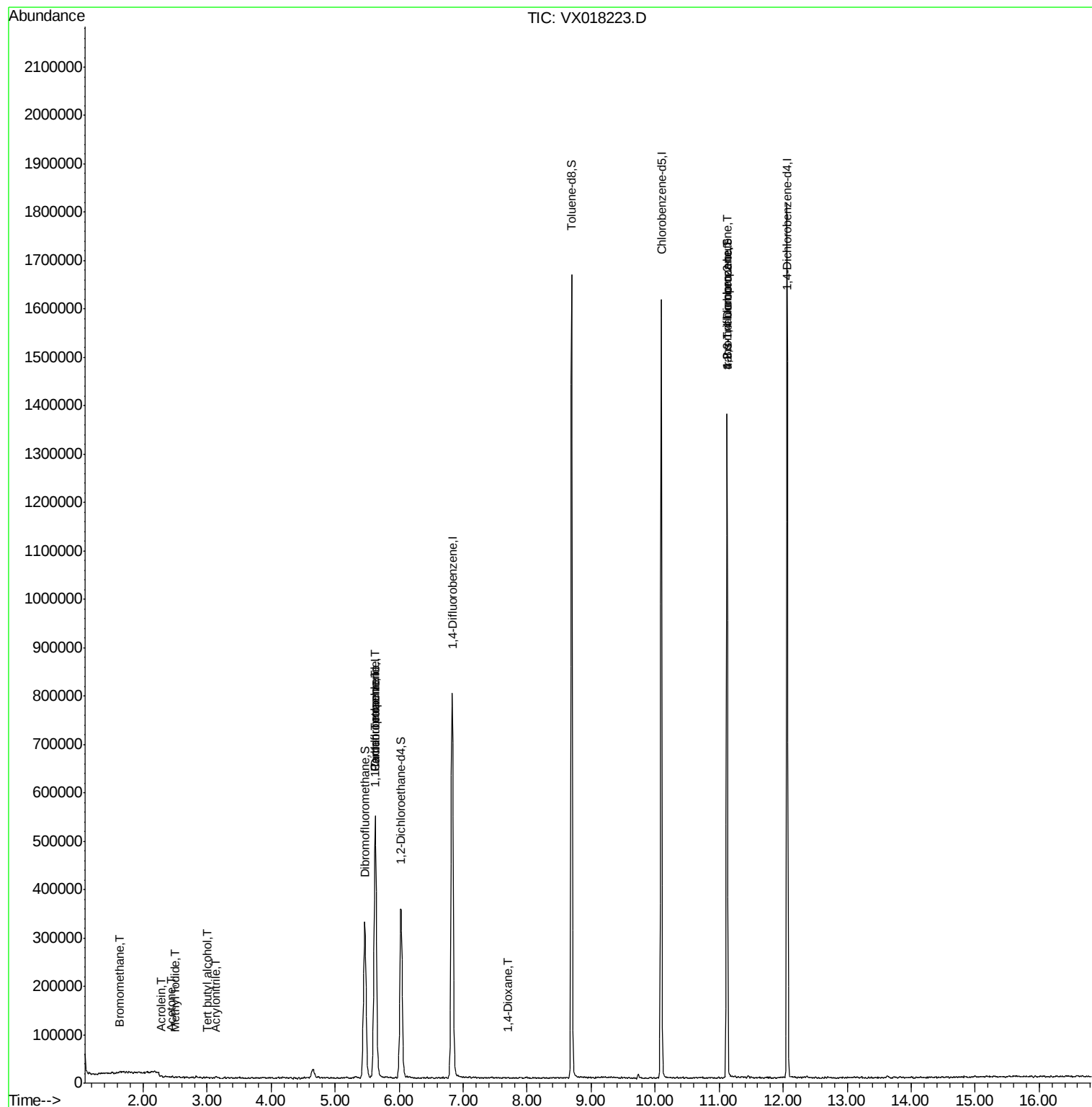
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 1281     | 0.426     | ug/l # | 9      |
| 10) Methyl Iodide              | 2.50  | 142  | 562      | 5.389     | ug/l # | 89     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 371      | 0.282     | ug/l # | 1      |
| 13) Acrolein                   | 2.29  | 56   | 381      | 0.697     | ug/l # | 2      |
| 15) Acrylonitrile              | 3.12  | 53   | 1013     | 0.339     | ug/l # | 76     |
| 16) Acetone                    | 2.43  | 43   | 2264     | 0.857     | ug/l # | 61     |
| 20) Methylene Chloride         | 2.83  | 84   | 1924     | Below Cal | #      | 56     |
| 36) 1,1-Dichloropropene        | 5.62  | 75   | 37898    | 5.193     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.62  | 117  | 49224    | 5.985     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 112      | 0.907     | ug/l # | 23     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 178275   | 22.510    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 178275   | 60.796    | ug/l # | 12     |

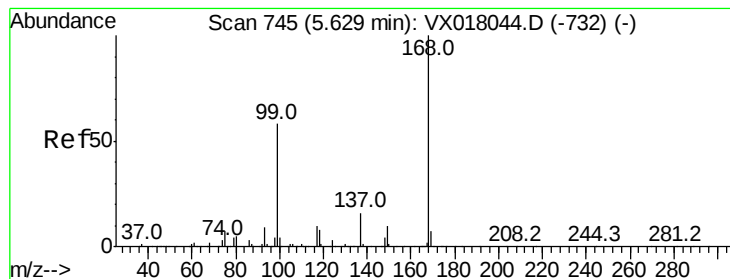
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0903WBL01

Quant Time: Sep 04 01:18:47 2020  
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: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Instrument :

MSVOA\_X

ClientSampleId :

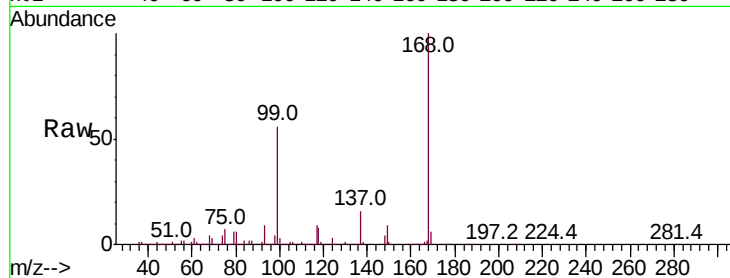
VX0903WBL01

Tot Ion:168 Resp: 488179

Ion Ratio Lower Upper

168 100

99 56.4 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

150000

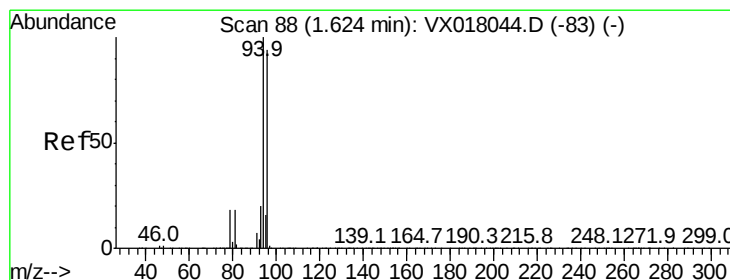
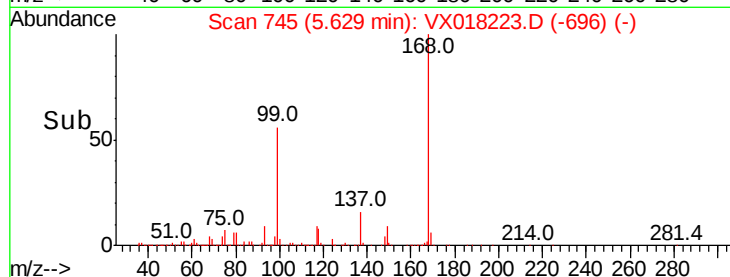
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.426 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX018223.D

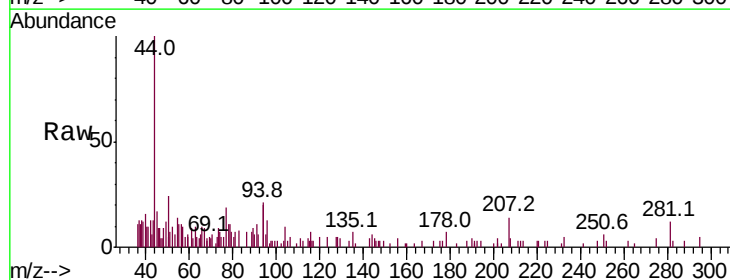
Acq: 03 Sep 2020 10:38

Tgt Ion: 94 Resp: 1281

Ion Ratio Lower Upper

94 100

96 6.2 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

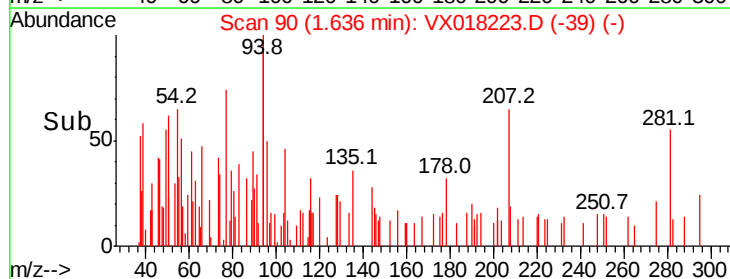
400

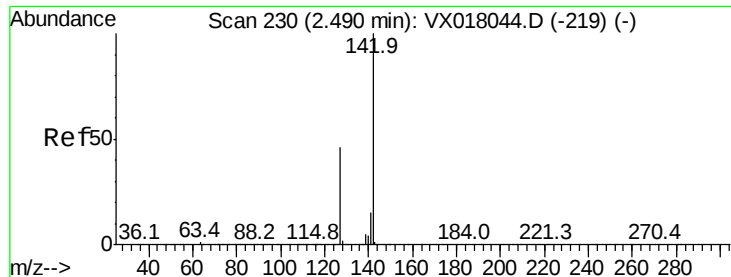
200

0

Time-->

1.60 1.65 1.70

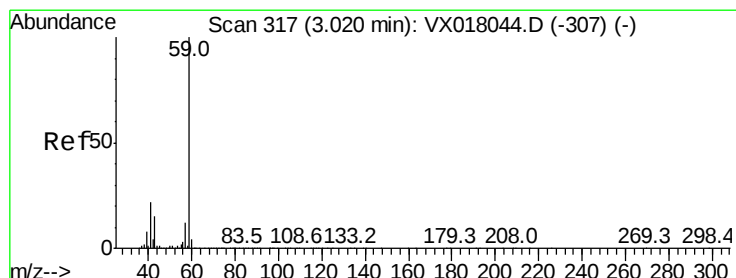
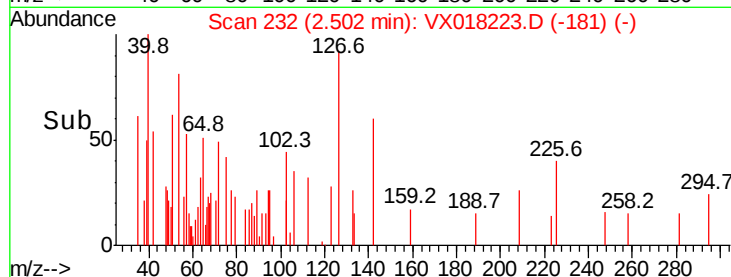
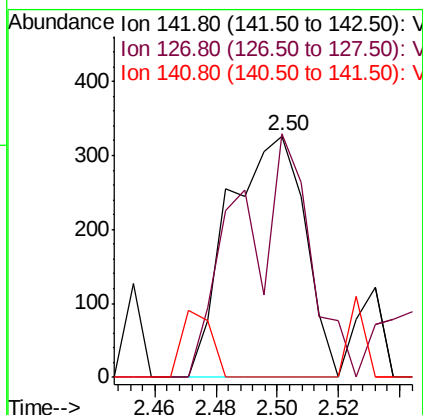
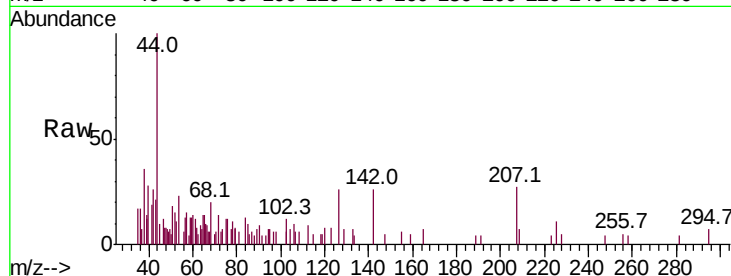




#10  
Methyl Iodide  
Concen: 5.389 ug/l  
RT: 2.50 min Scan# 232  
Delta R.T. 0.01 min  
Lab File: VX018223.D  
Acq: 03 Sep 2020 10:38

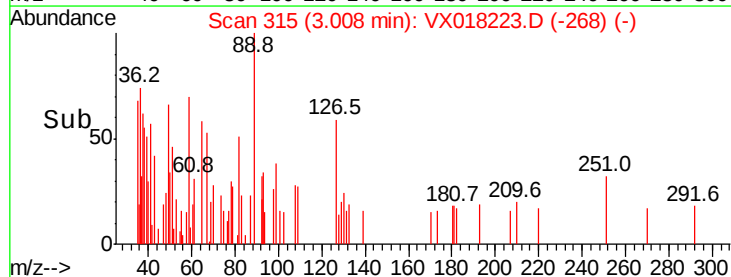
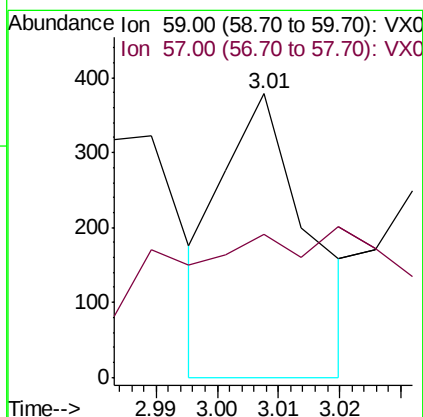
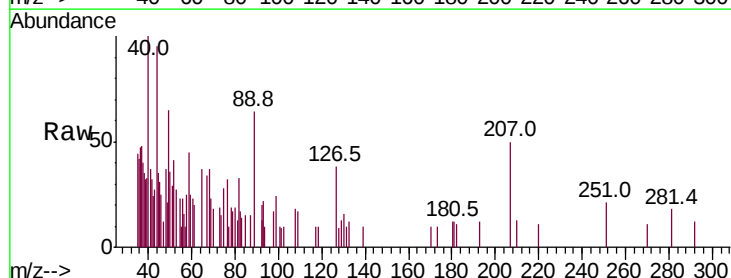
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0903WBL01

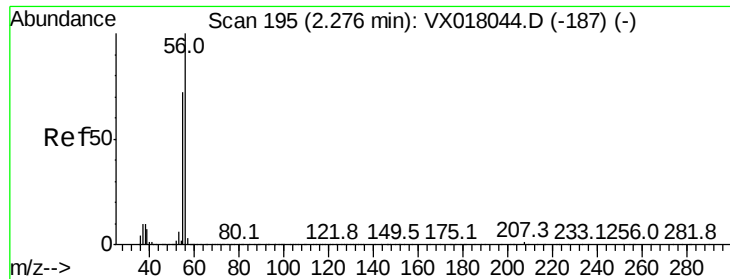
Tot Ion:142 Resp: 562  
Ion Ratio Lower Upper  
142 100  
127 48.9 37.0 55.6  
141 0.0 11.5 17.3#



#11  
Tert butyl alcohol  
Concen: 0.282 ug/l  
RT: 3.01 min Scan# 315  
Delta R.T. -0.01 min  
Lab File: VX018223.D  
Acq: 03 Sep 2020 10:38

Tgt Ion: 59 Resp: 371  
Ion Ratio Lower Upper  
59 100  
57 149.9 8.9 13.3#





#13

Acrolein

Concen: 0.697 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Instrument :

MSVOA\_X

ClientSampled :

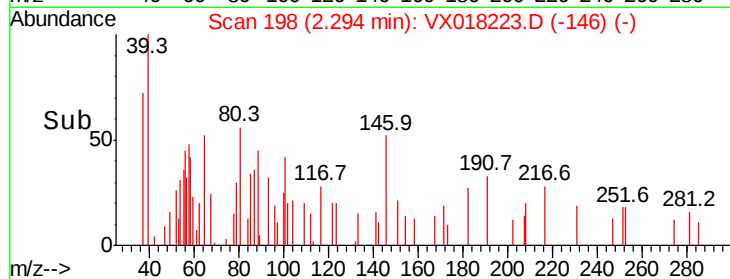
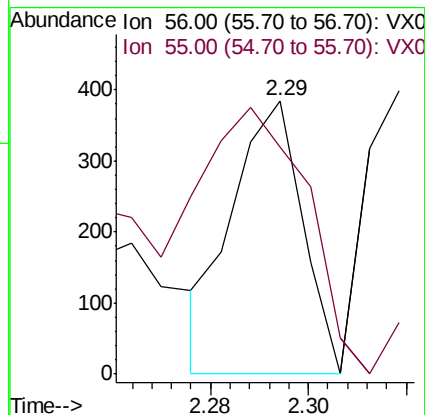
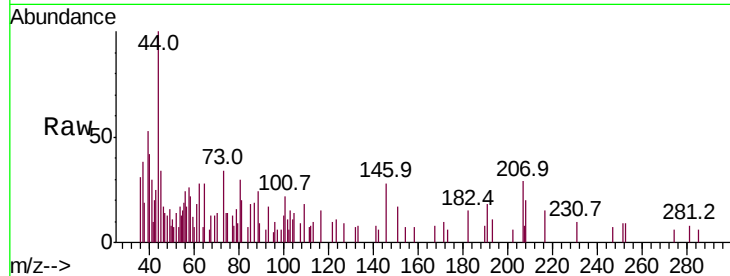
VX0903WBL01

Tot Ion: 56 Resp: 381

Ion Ratio Lower Upper

56 100

55 152.5 57.0 85.6#



#15

Acrylonitrile

Concen: 0.339 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

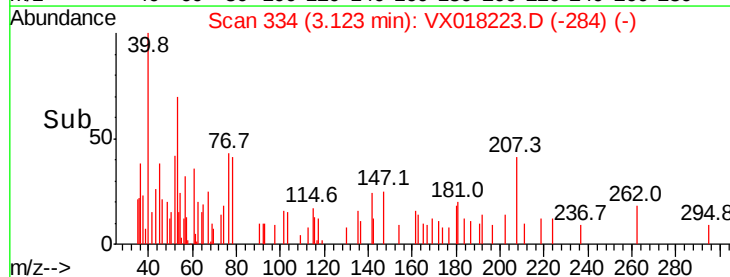
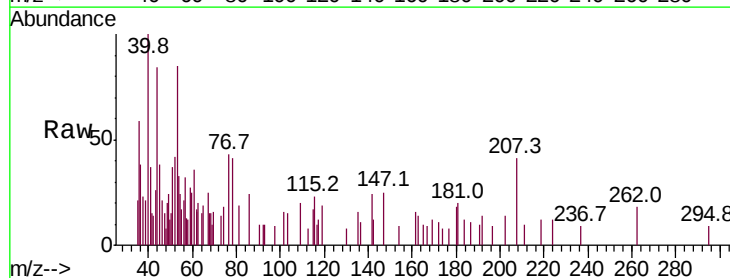
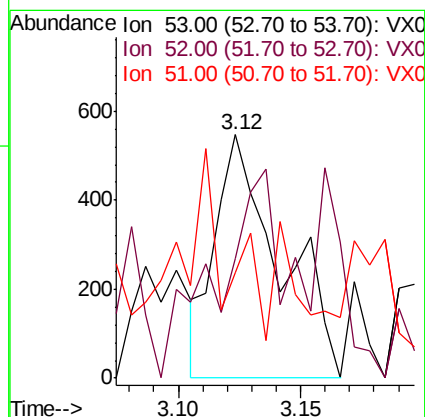
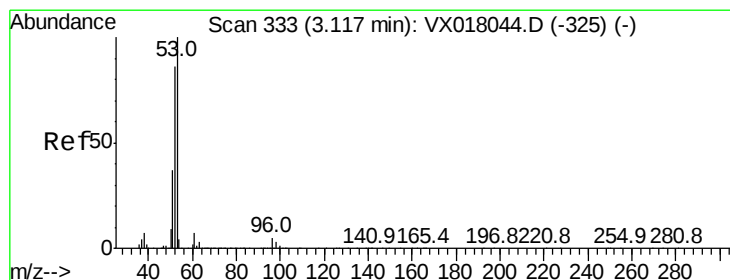
Tgt Ion: 53 Resp: 1013

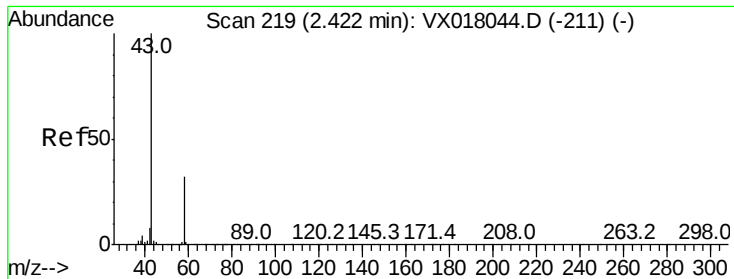
Ion Ratio Lower Upper

53 100

52 91.1 66.9 100.3

51 0.0 28.7 43.1#





#16

Acetone

Concen: 0.857 ug/l

RT: 2.43 min Scan# 221

Delta R.T. 0.01 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Instrument :

MSVOA\_X

ClientSampleId :

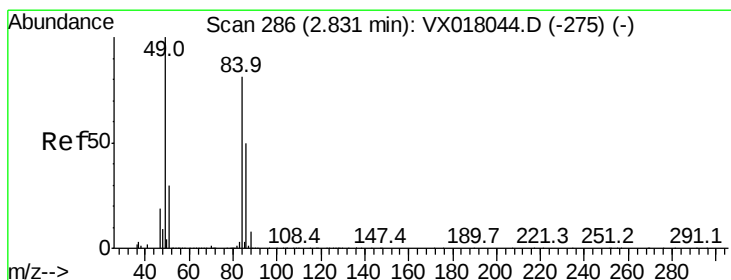
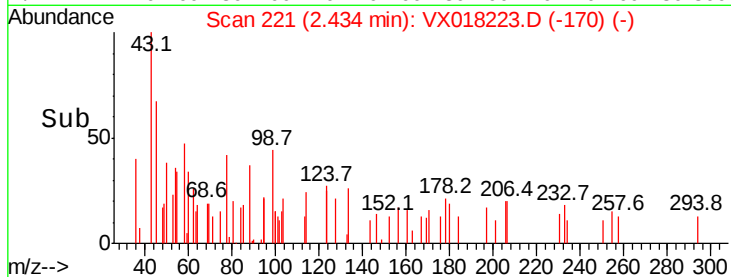
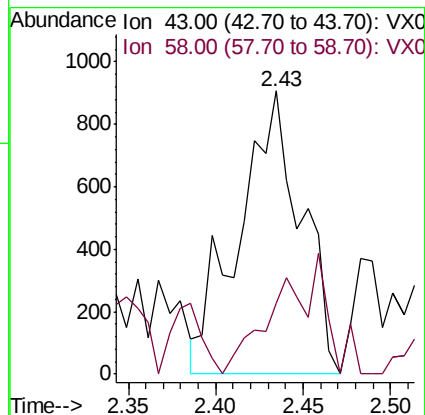
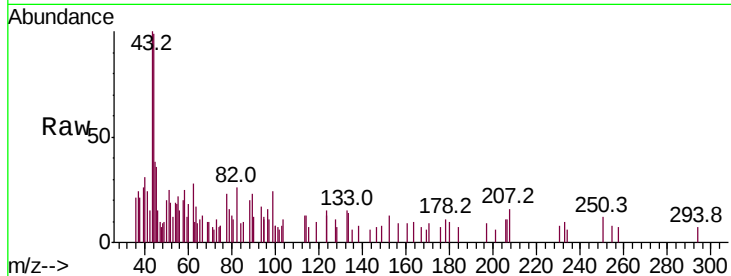
VX0903WBL01

Tot Ion: 43 Resp: 2264

Ion Ratio Lower Upper

43 100

58 9.9 25.5 38.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Tgt Ion: 84 Resp: 1924

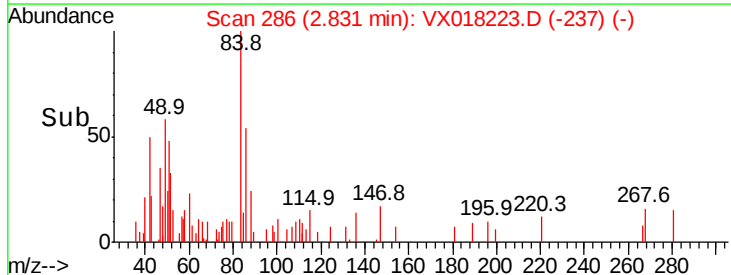
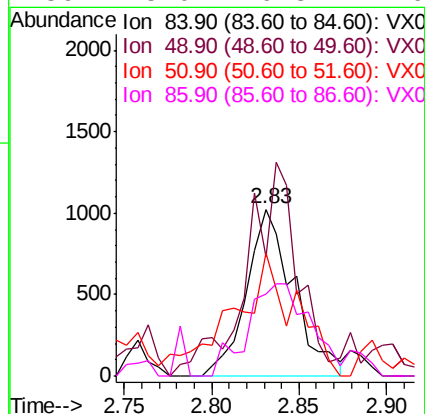
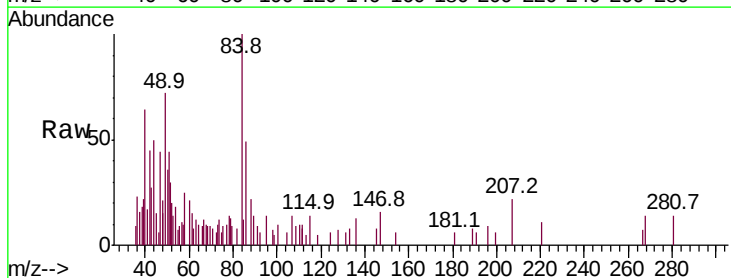
Ion Ratio Lower Upper

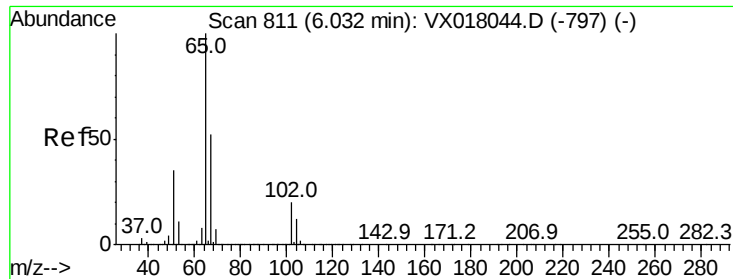
84 100

49 62.9 98.6 148.0#

51 61.8 29.6 44.4#

86 43.0 49.8 74.6#





#33

1,2-Dichloroethane-d4

Concen: 52.395 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Instrument :

MSVOA\_X

ClientSampleId :

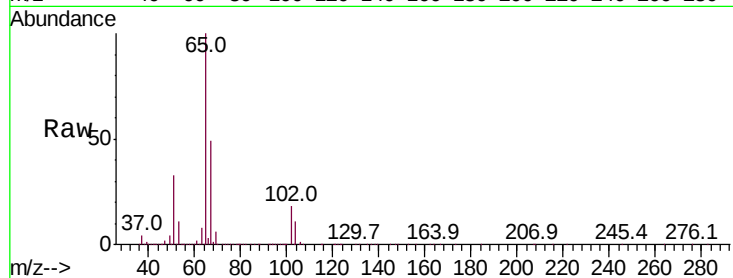
VX0903WBL01

Tot Ion: 65 Resp: 355091

Ion Ratio Lower Upper

65 100

67 50.9 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

150000

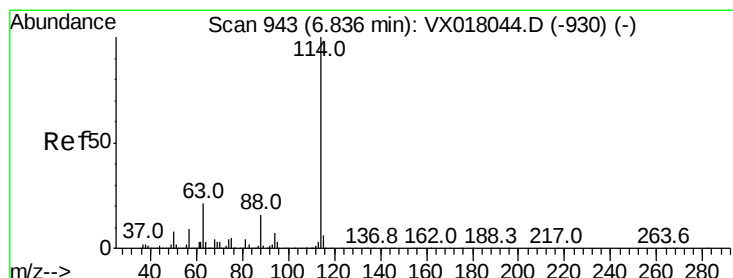
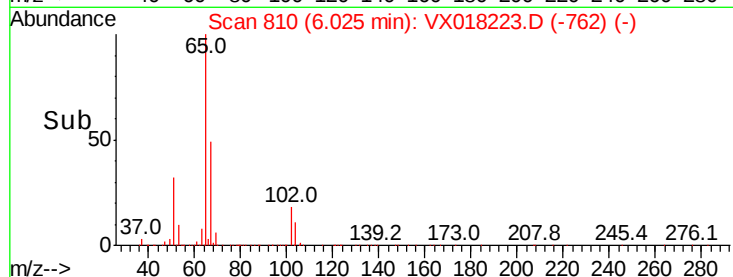
100000

50000

0

5.90 6.00 6.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

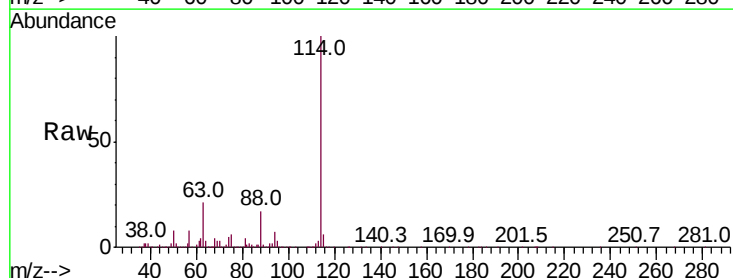
Tgt Ion: 114 Resp: 791298

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 16.7 0.0 31.8



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

6.83

400000

300000

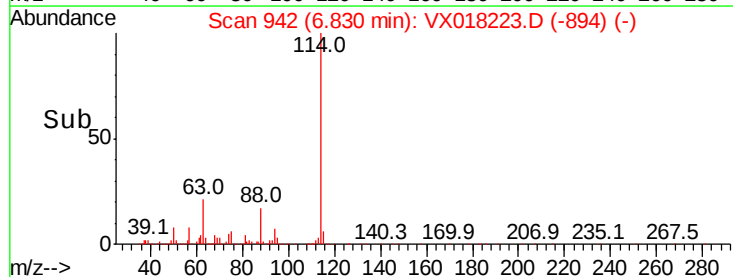
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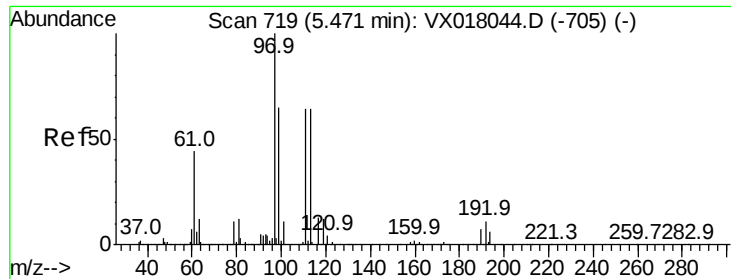
100000

0

6.70 6.80 6.90

Time-->

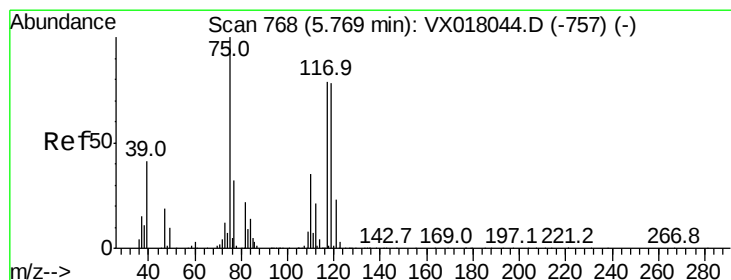
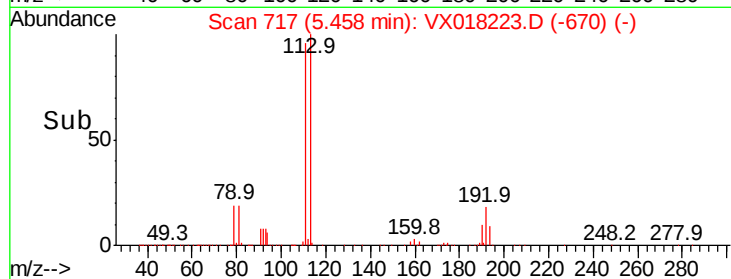
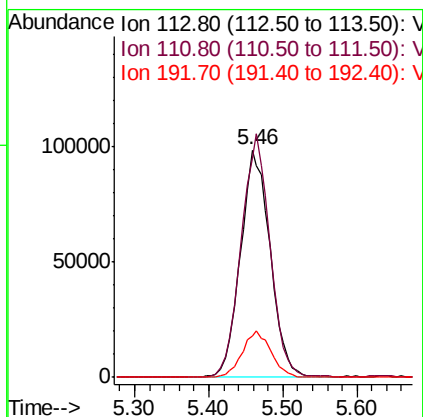
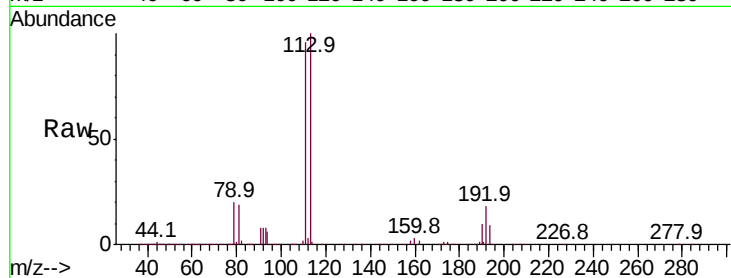




#35  
 Dibromofluoromethane  
 Concen: 51.266 ug/l  
 RT: 5.46 min Scan# 717  
 Delta R.T. -0.01 min  
 Lab File: VX018223.D  
 Acq: 03 Sep 2020 10:38

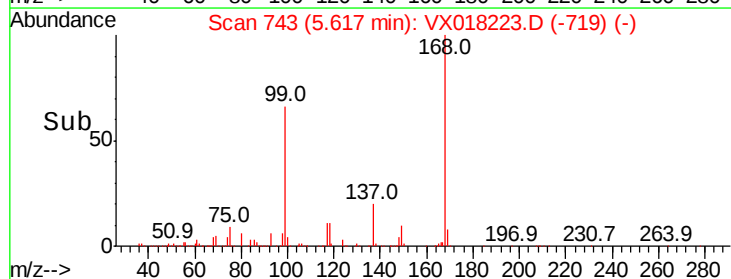
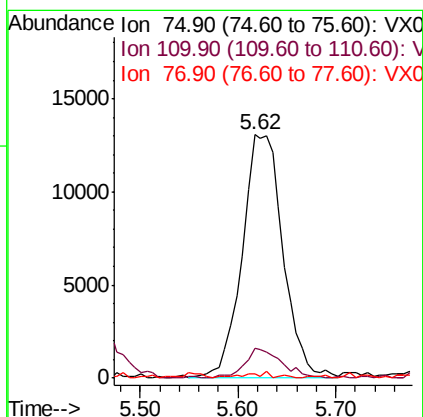
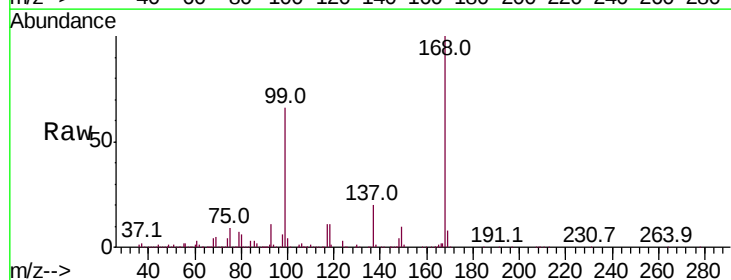
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 VX0903WBL01

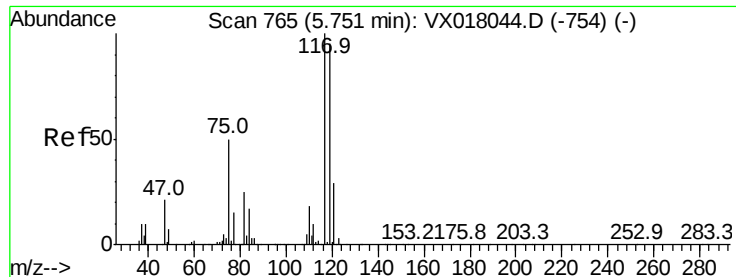
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.7 | 81.6  | 122.4 |
| 192     | 19.7  | 15.8  | 23.8  |



#36  
 1,1-Dichloropropene  
 Concen: 5.193 ug/l  
 RT: 5.62 min Scan# 743  
 Delta R.T. -0.15 min  
 Lab File: VX018223.D  
 Acq: 03 Sep 2020 10:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.1  | 18.0  | 54.0# |
| 77      | 1.1   | 24.4  | 36.6# |





#38

Carbon Tetrachloride

Concen: 5.985 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Instrument :

MSVOA\_X

ClientSampleId :

VX0903WBL01

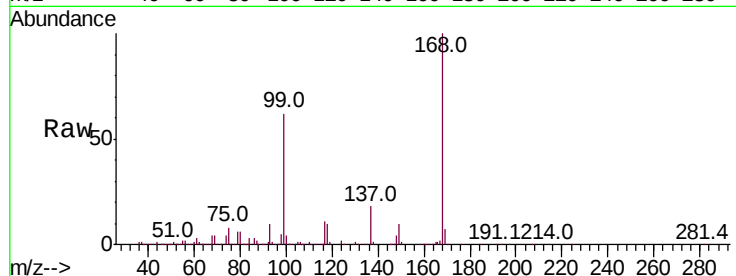
Tot Ion:117 Resp: 49224

Ion Ratio Lower Upper

117 100

119 4.9 75.8 113.6#

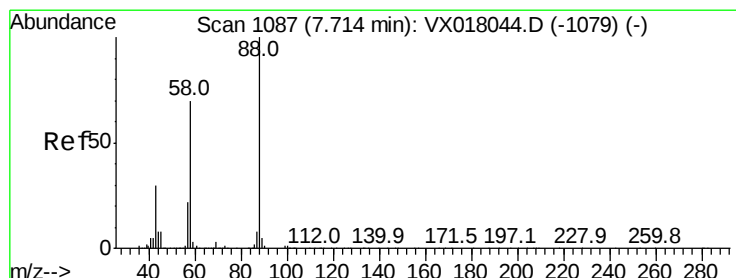
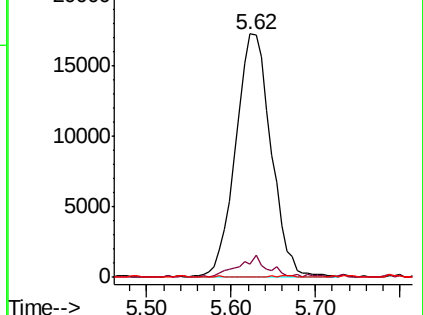
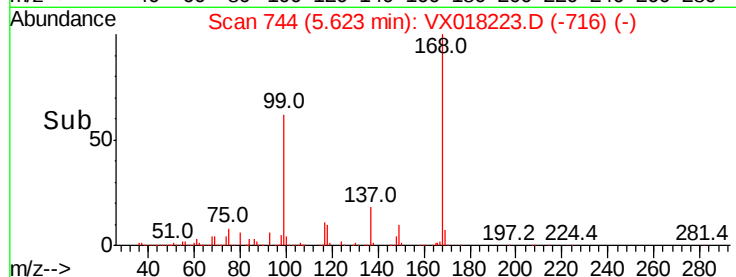
121 0.0 23.4 35.0#



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



#49

1,4-Dioxane

Concen: 0.907 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

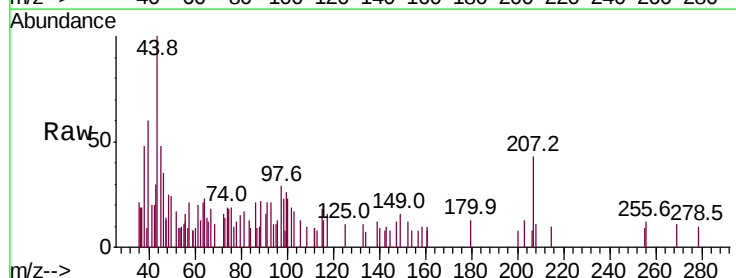
Tgt Ion: 88 Resp: 112

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

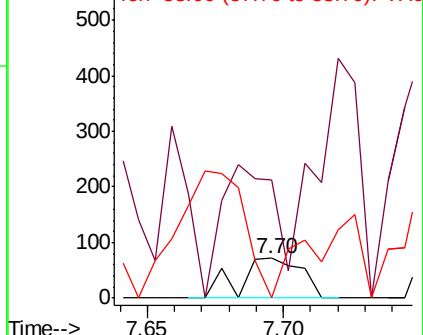
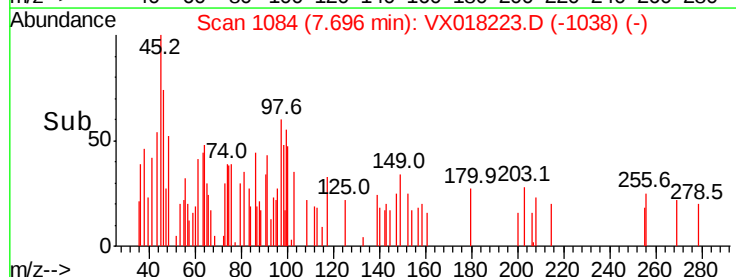
58 0.0 56.4 84.6#

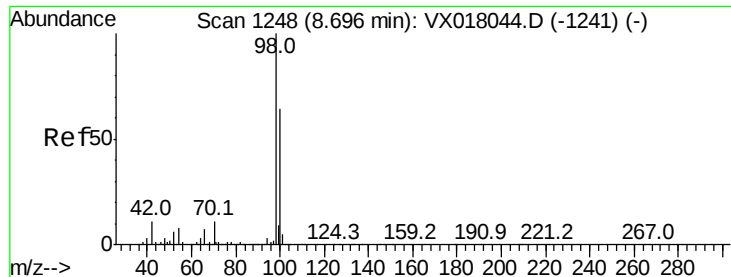


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.610 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Instrument :

MSVOA\_X

ClientSampleId :

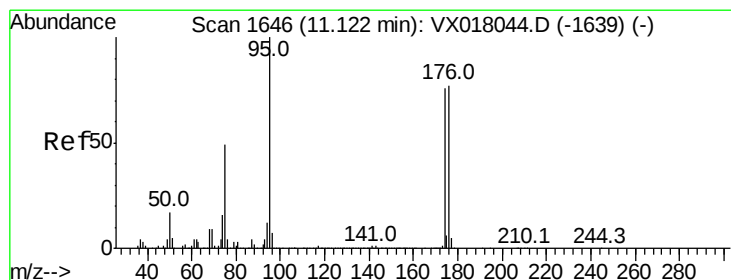
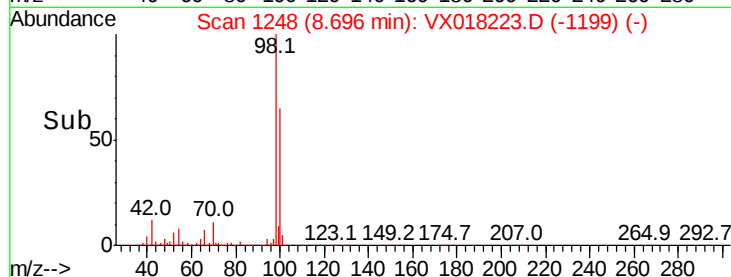
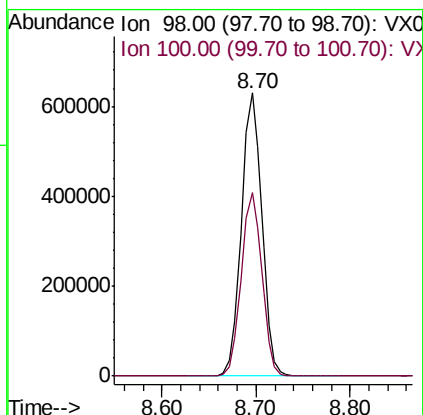
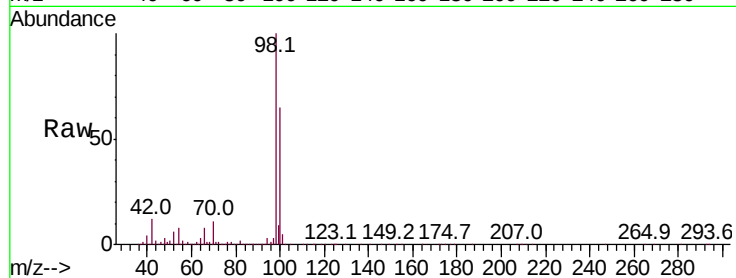
VX0903WBL01

Tot Ion: 98 Resp: 955625

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 44.296 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

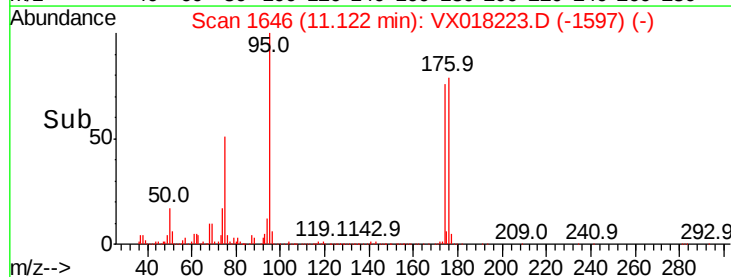
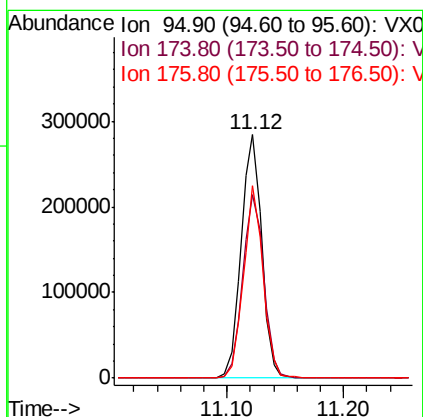
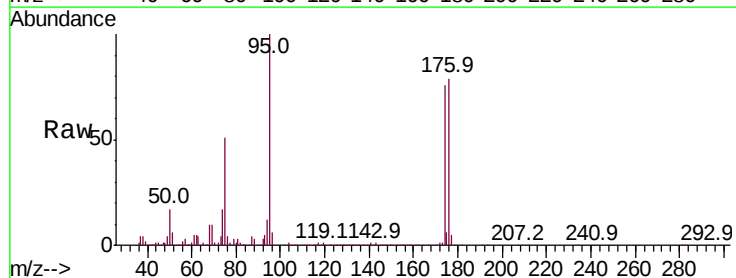
Tgt Ion: 95 Resp: 349814

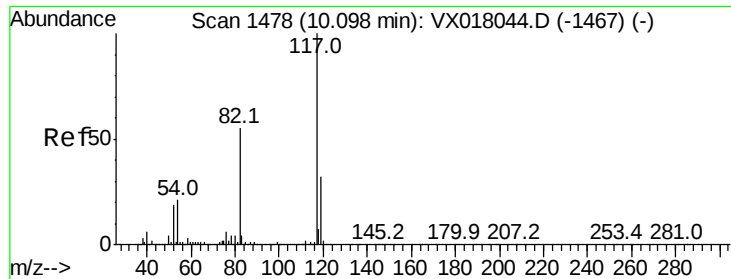
Ion Ratio Lower Upper

95 100

174 78.4 0.0 160.2

176 75.2 0.0 155.8

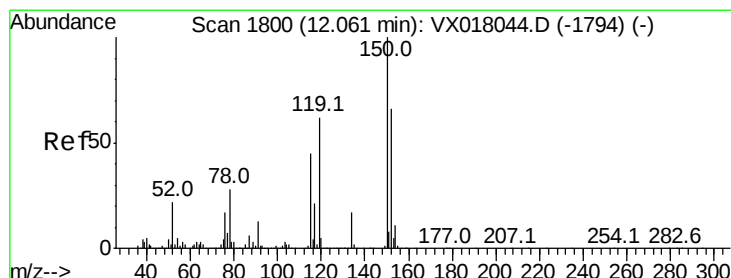
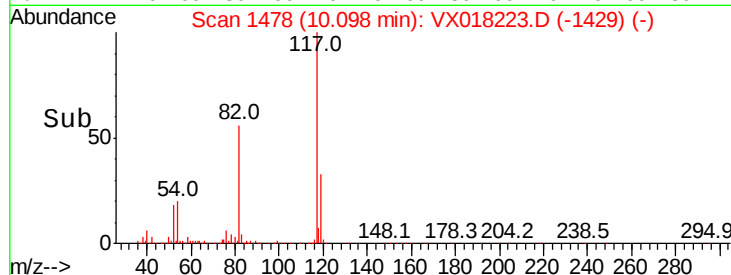
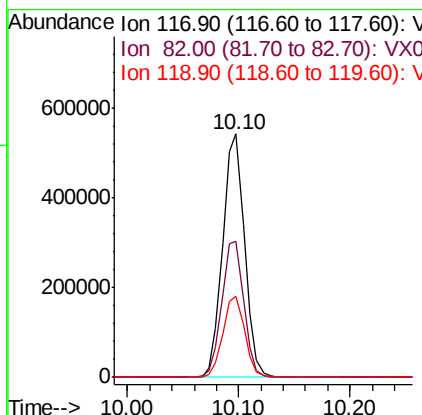
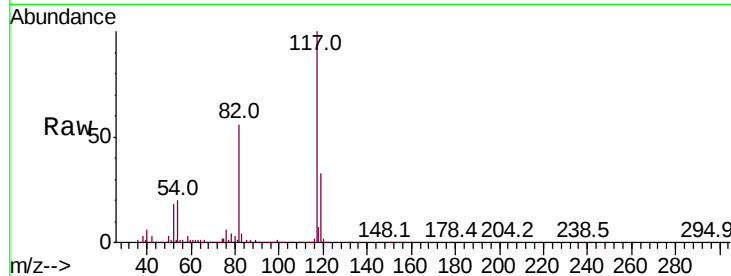




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX018223.D  
Acq: 03 Sep 2020 10:38

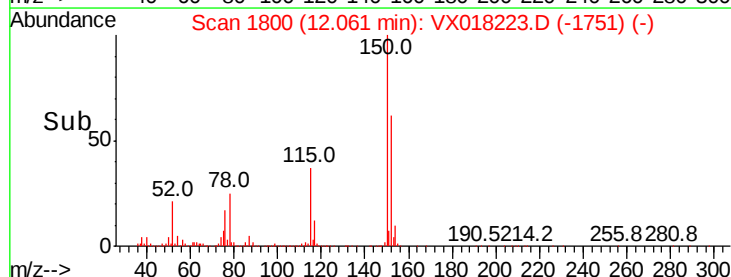
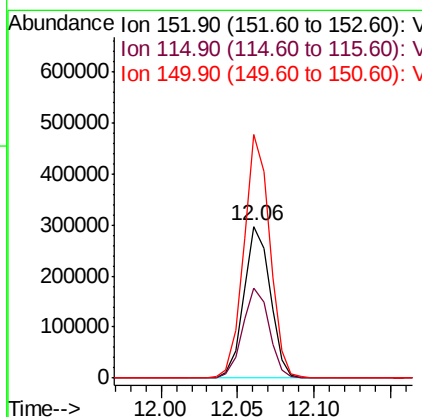
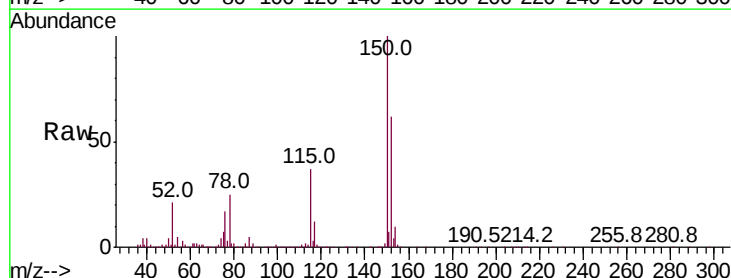
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0903WBL01

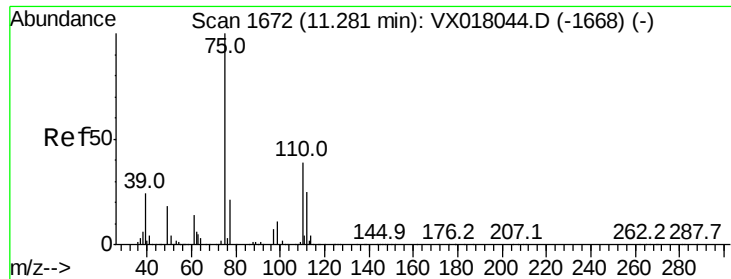
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.7  | 44.2  | 66.2  |
| 119     | 33.1  | 25.7  | 38.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX018223.D  
Acq: 03 Sep 2020 10:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.7  | 41.5  | 124.5 |
| 150     | 158.1 | 0.0   | 343.8 |





#76

1,2,3-Trichloropropane

Concen: 22.510 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Instrument :

MSVOA\_X

ClientSampleId :

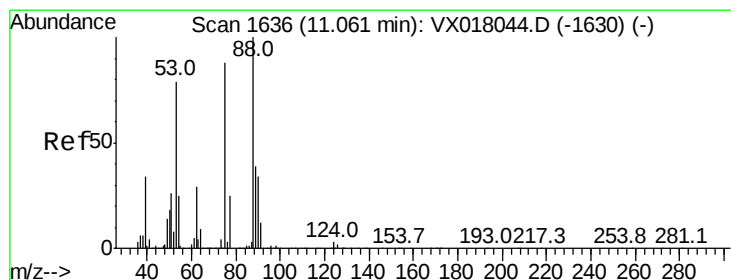
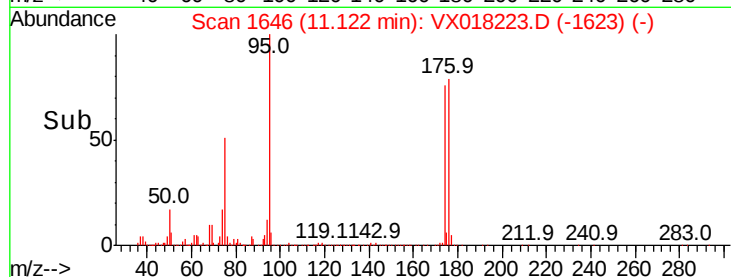
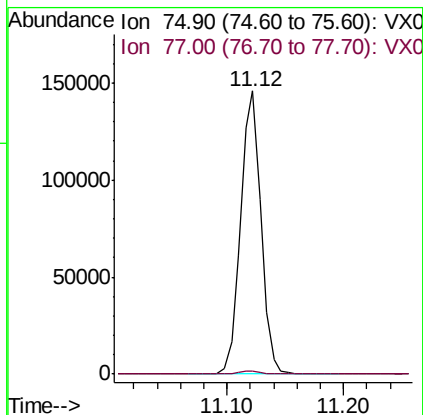
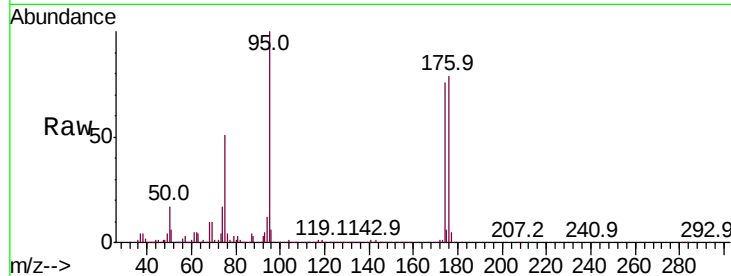
VX0903WBL01

Tot Ion: 75 Resp: 178275

Ion Ratio Lower Upper

75 100

77 1.5 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.796 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018223.D

Acq: 03 Sep 2020 10:38

Tgt Ion: 75 Resp: 178275

Ion Ratio Lower Upper

75 100

53 0.5 74.7 112.1#

89 0.0 36.6 54.8#

