

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX082419\  
 Data File : VX011834.D  
 Acq On : 24 Aug 2019 21:20  
 Operator : JC/SP  
 Sample : K4474-35  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T1-2-K3-(2.5)

Quant Time: Aug 26 04:13:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 474141   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 636965   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 604644   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 333656   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 208516   | 43.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.56%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 191941   | 46.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.20%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 736753   | 51.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.56% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 272598   | 48.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.00%  |          |

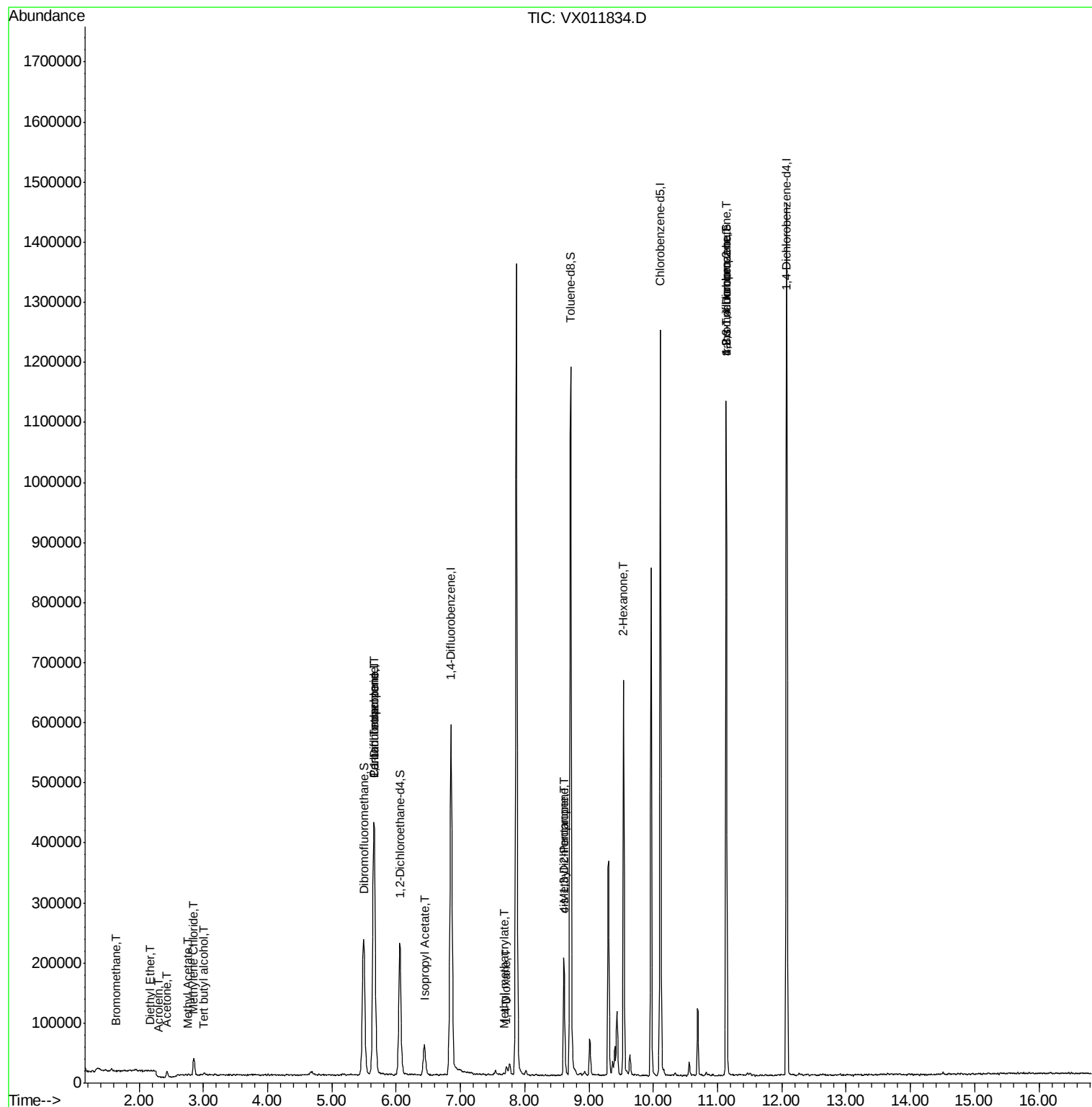
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 515      | 0.241  | ug/l # | 80     |
| 8) Diethyl Ether               | 2.18  | 74   | 906      | 0.431  | ug/l   | 83     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 2971     | 3.157  | ug/l # | 93     |
| 13) Acrolein                   | 2.29  | 56   | 486      | 1.336  | ug/l # | 66     |
| 16) Acetone                    | 2.43  | 43   | 11536    | 5.568  | ug/l   | 93     |
| 18) Methyl Acetate             | 2.77  | 43   | 2976     | 0.529  | ug/l   | 94     |
| 20) Methylene Chloride         | 2.85  | 84   | 14857    | 3.507  | ug/l   | 95     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 25255    | 5.056  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 38711    | 6.838  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.44  | 43   | 69054    | 8.071  | ug/l   | 98     |
| 48) Methyl methacrylate        | 7.67  | 41   | 3763     | 0.884  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 273      | 2.314  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.61  | 43   | 65022    | 11.534 | ug/l # | 54     |
| 54) cis-1,3-Dichloropropene    | 8.61  | 75   | 32223    | 5.459  | ug/l # | 59     |
| 59) 2-Hexanone                 | 9.54  | 43   | 73605    | 17.011 | ug/l # | 52     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 123199   | 21.043 | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 123199   | 63.462 | ug/l # | 11     |

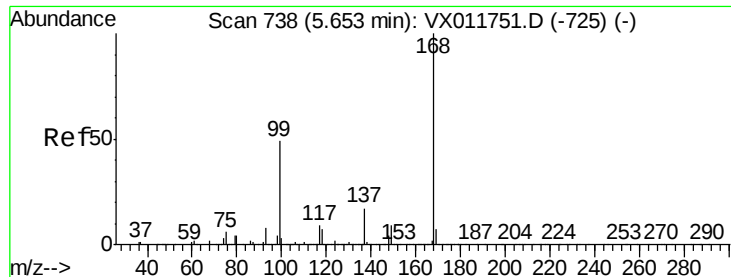
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX082419\  
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MSVOA\_X  
ClientSampled :  
T1-2-K3-(2.5)

Quant Time: Aug 26 04:13:22 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 23 01:48:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

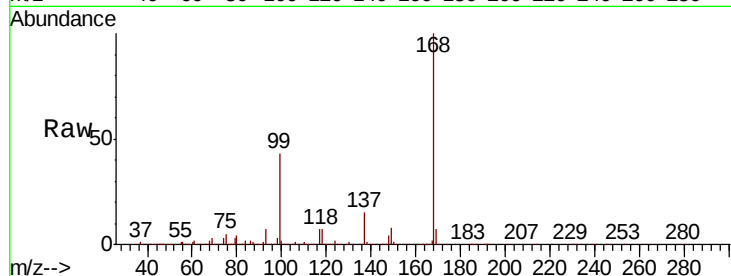
T1-2-K3-(2.5)

Tgt Ion:168 Resp: 474141

Ion Ratio Lower Upper

168 100

99 43.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

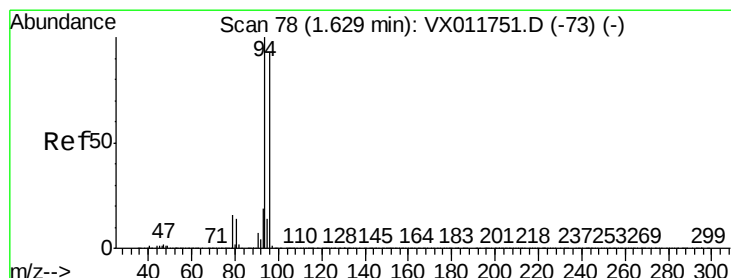
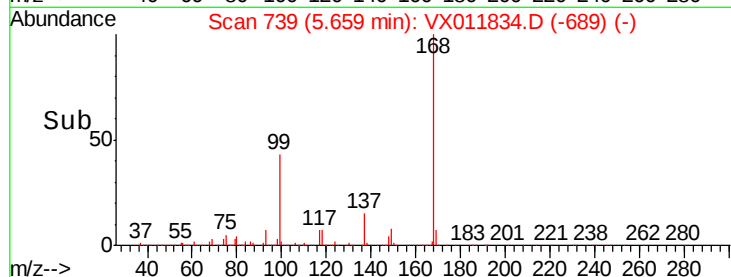
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.241 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011834.D

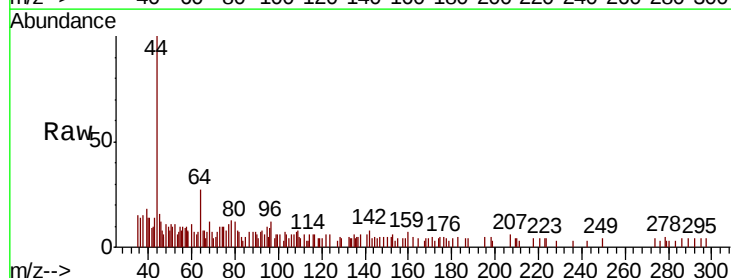
Acq: 24 Aug 2019 21:20

Tgt Ion: 94 Resp: 515

Ion Ratio Lower Upper

94 100

96 73.7 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

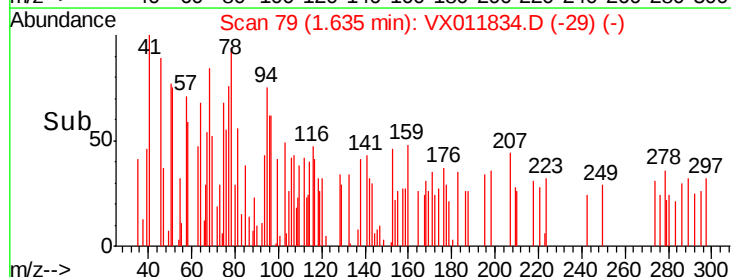
300

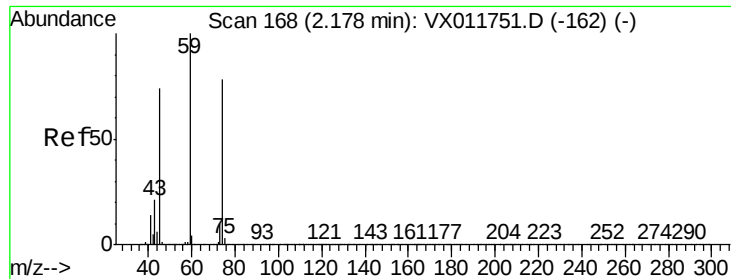
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.431 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampled :

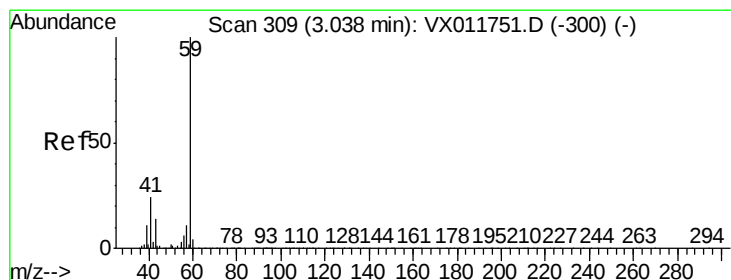
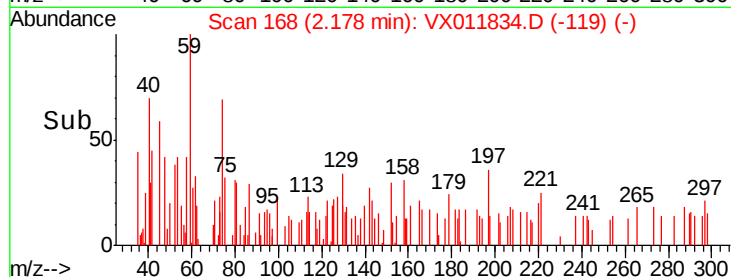
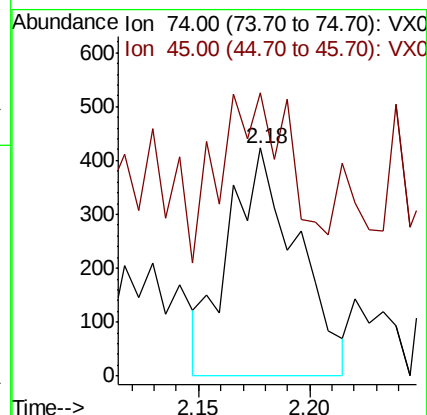
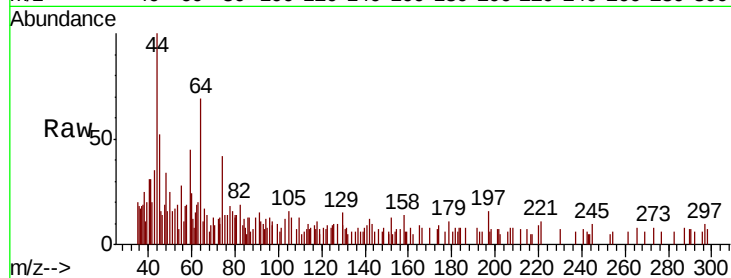
T1-2-K3-(2.5)

Tgt Ion: 74 Resp: 906

Ion Ratio Lower Upper

74 100

45 76.6 46.7 140.0



#11

Tert butyl alcohol

Concen: 3.157 ug/l

RT: 3.00 min Scan# 303

Delta R.T. -0.04 min

Lab File: VX011834.D

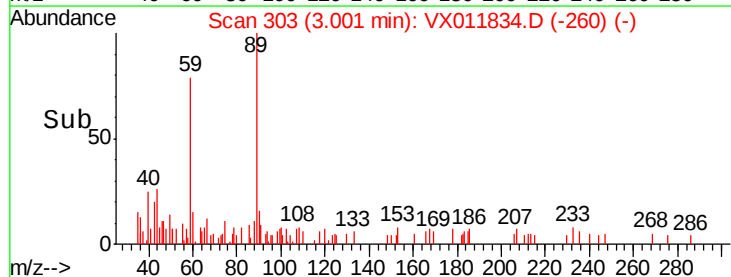
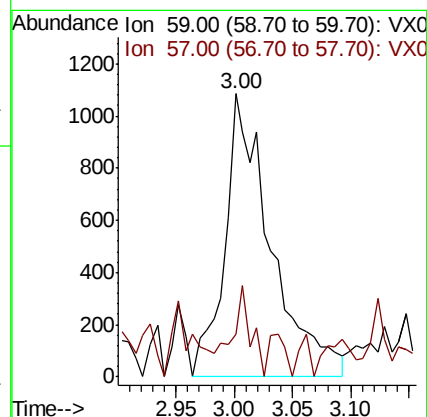
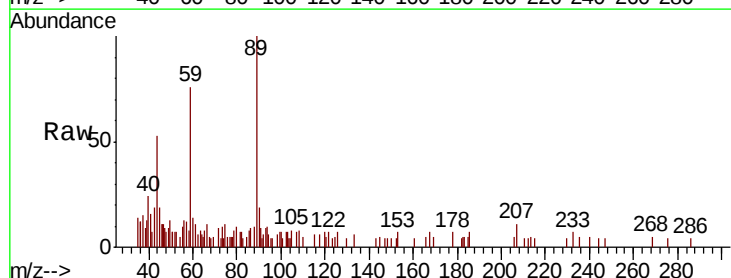
Acq: 24 Aug 2019 21:20

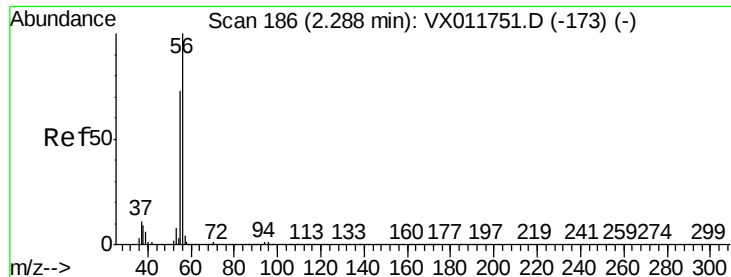
Tgt Ion: 59 Resp: 2971

Ion Ratio Lower Upper

59 100

57 13.1 8.4 12.6#





#13

Acrolein

Concen: 1.336 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

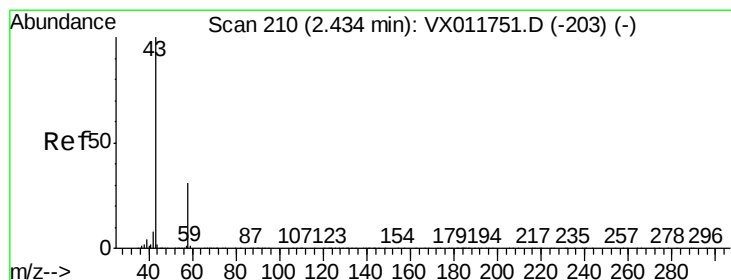
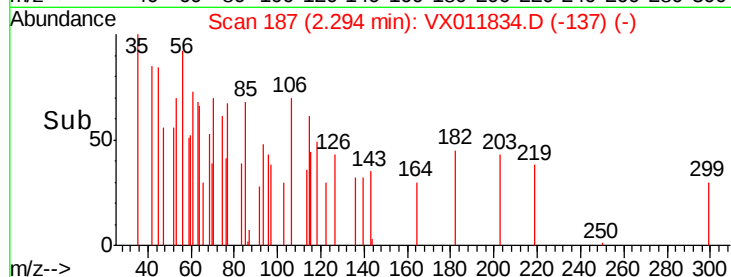
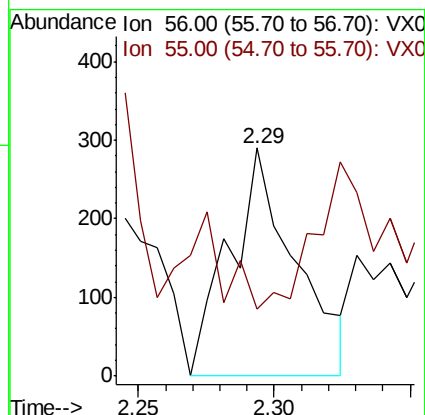
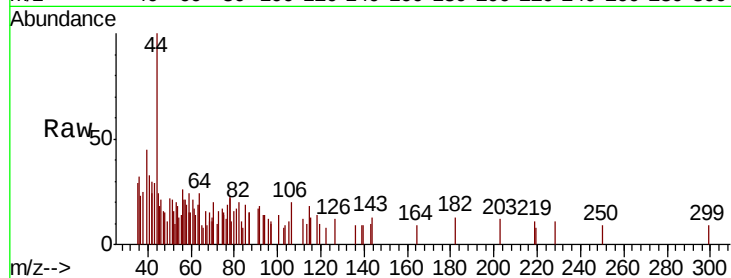
T1-2-K3-(2.5)

Tgt Ion: 56 Resp: 486

Ion Ratio Lower Upper

56 100

55 40.5 54.8 82.2#



#16

Acetone

Concen: 5.568 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011834.D

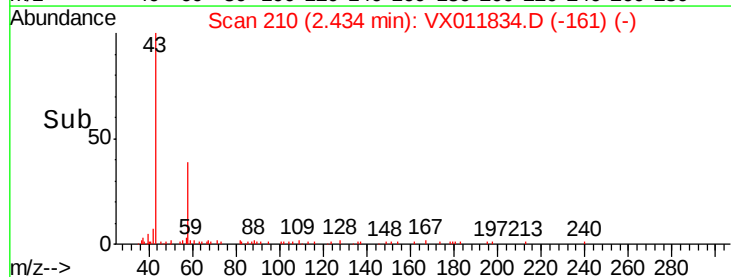
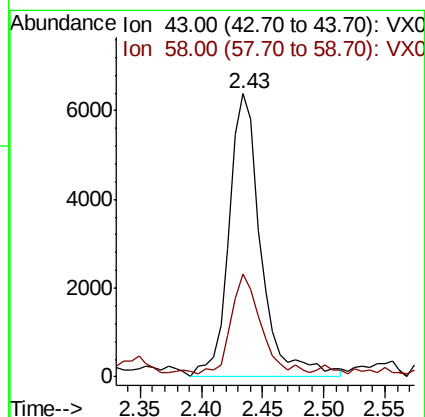
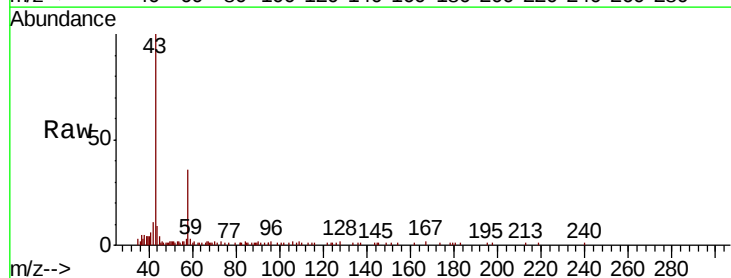
Acq: 24 Aug 2019 21:20

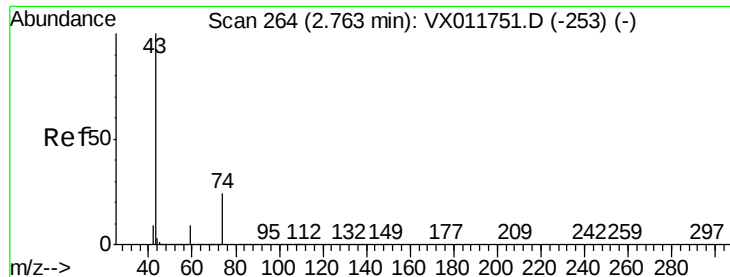
Tgt Ion: 43 Resp: 11536

Ion Ratio Lower Upper

43 100

58 34.2 24.4 36.6

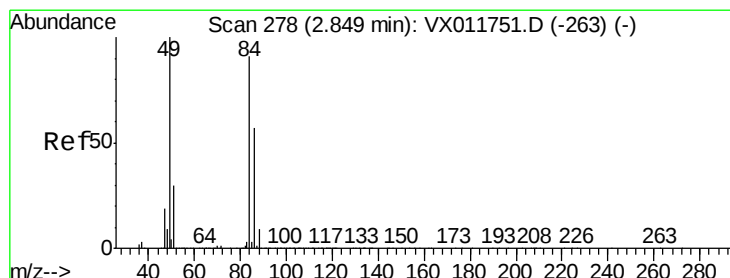
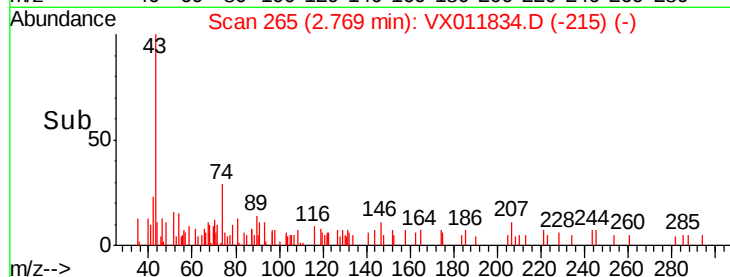
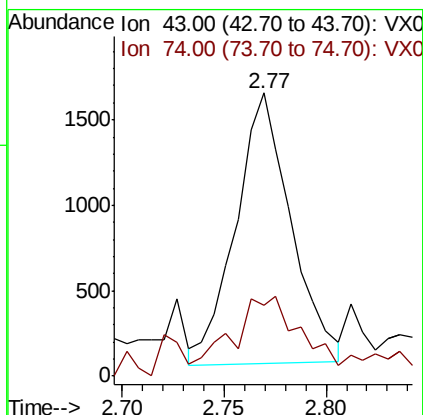
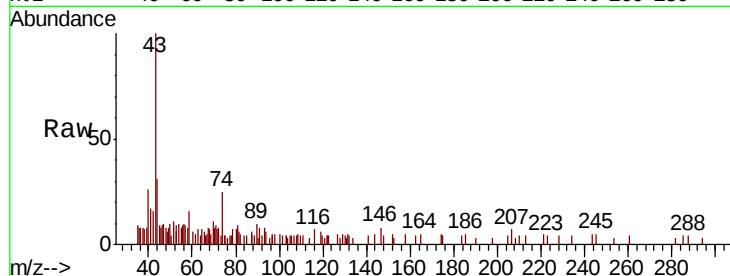




#18  
Methyl Acetate  
Concen: 0.529 ug/l  
RT: 2.77 min Scan# 265  
Delta R.T. 0.01 min  
Lab File: VX011834.D  
Acq: 24 Aug 2019 21:20

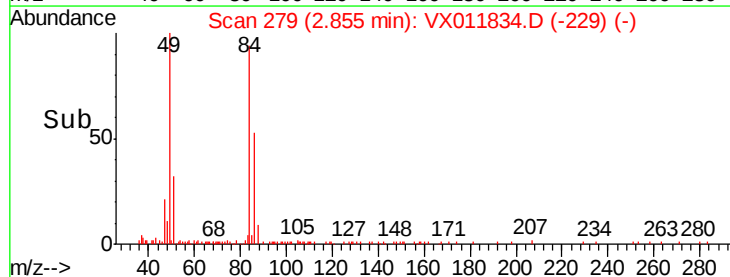
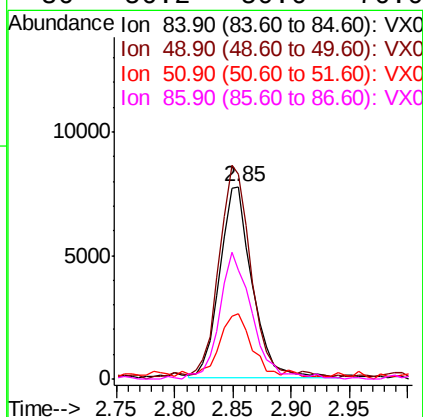
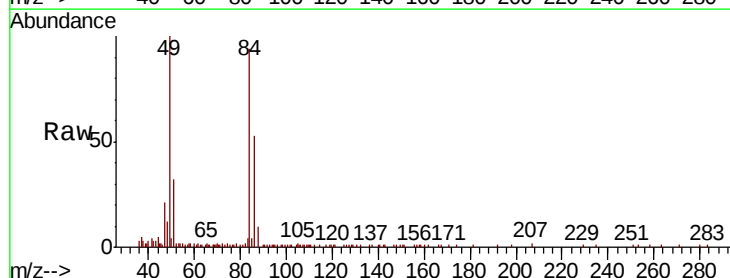
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-2-K3-(2.5)

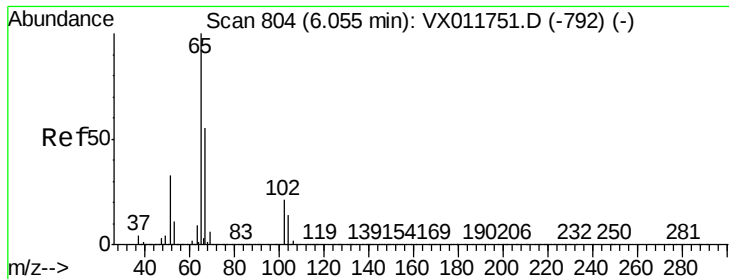
Tgt Ion: 43 Resp: 2976  
Ion Ratio Lower Upper  
43 100  
74 27.2 19.5 29.3



#20  
Methylene Chloride  
Concen: 3.507 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. 0.01 min  
Lab File: VX011834.D  
Acq: 24 Aug 2019 21:20

Tgt Ion: 84 Resp: 14857  
Ion Ratio Lower Upper  
84 100  
49 105.8 88.3 132.5  
51 31.4 26.2 39.2  
86 56.2 50.6 76.0





#33

1,2-Dichloroethane-d4

Concen: 43.778 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

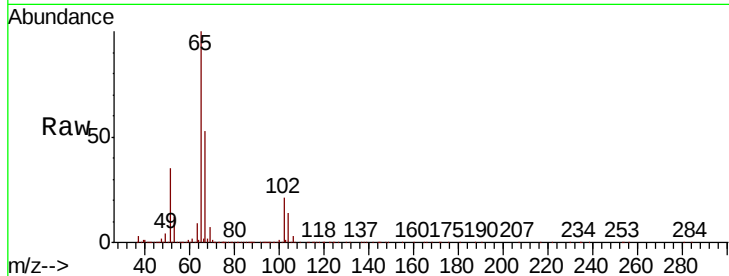
T1-2-K3-(2.5)

Tgt Ion: 65 Resp: 208516

Ion Ratio Lower Upper

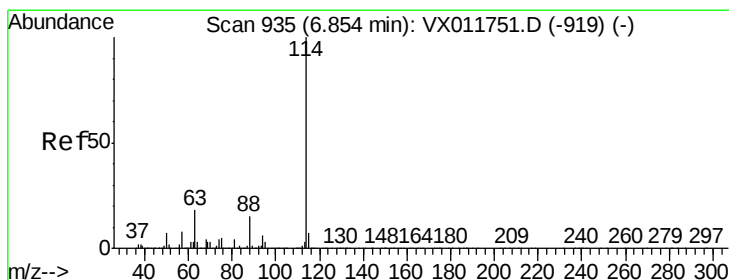
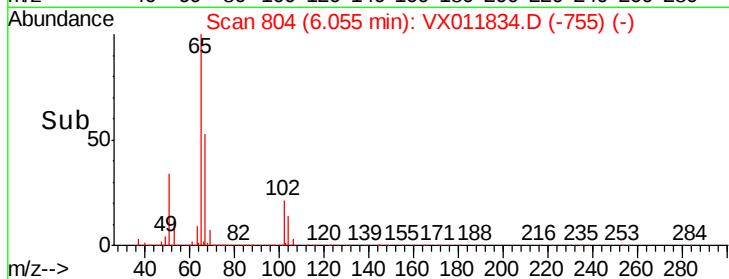
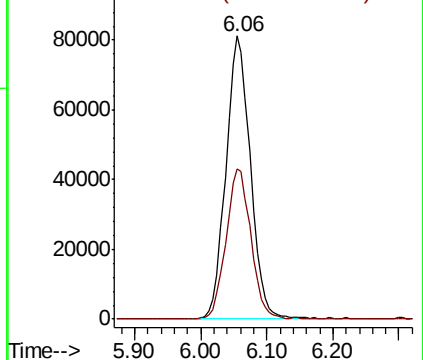
65 100

67 53.6 0.0 107.8



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: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

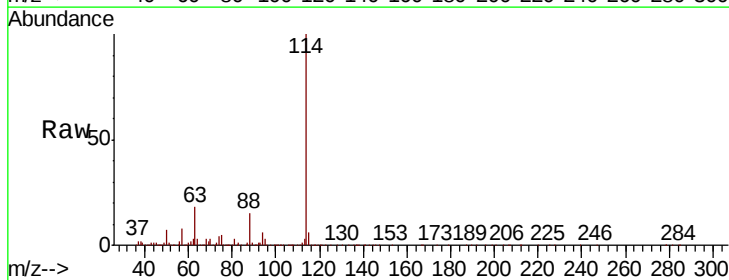
Tgt Ion: 114 Resp: 636965

Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.8

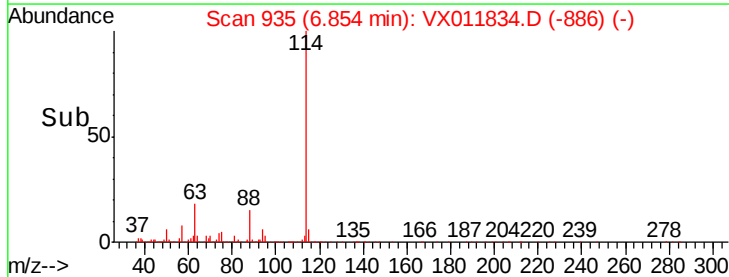
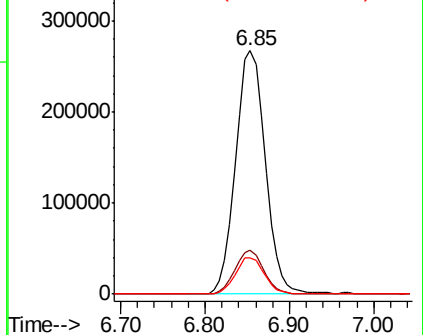
88 14.9 0.0 30.2

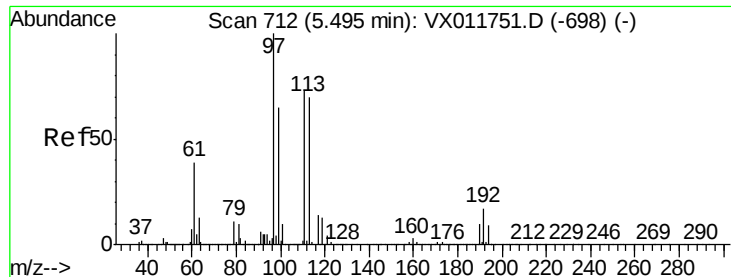


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.600 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

T1-2-K3-(2.5)

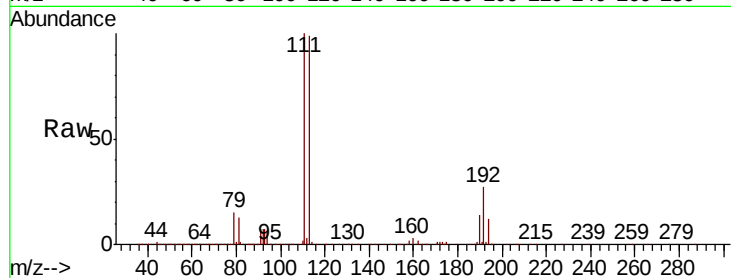
Tgt Ion:113 Resp: 191941

Ion Ratio Lower Upper

113 100

111 102.3 81.0 121.4

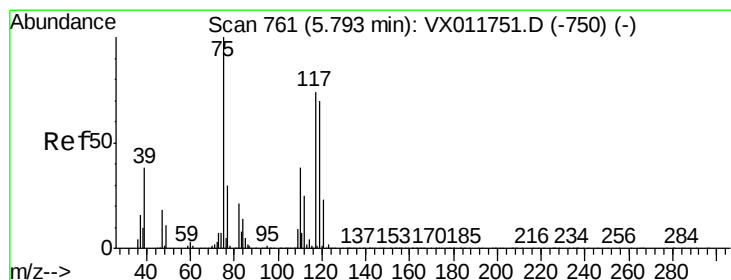
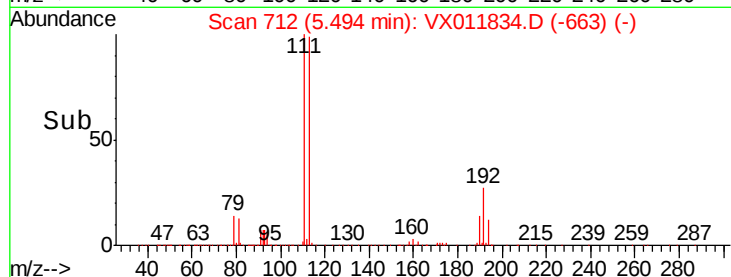
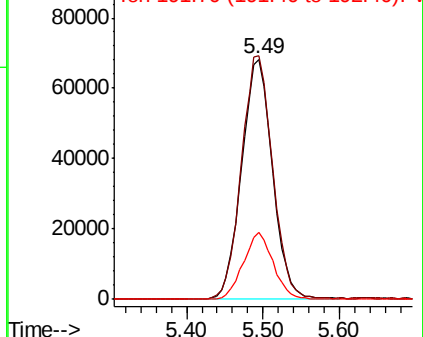
192 27.0 19.9 29.9



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: 5.056 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

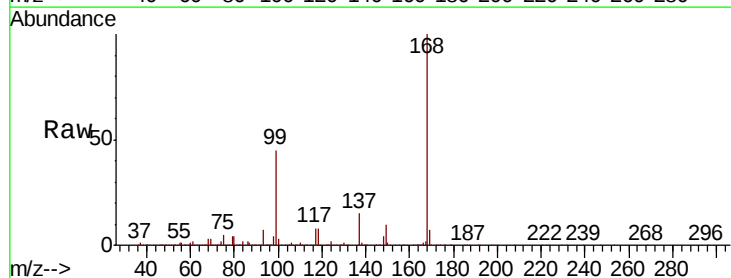
Tgt Ion: 75 Resp: 25255

Ion Ratio Lower Upper

75 100

110 12.2 19.0 57.0#

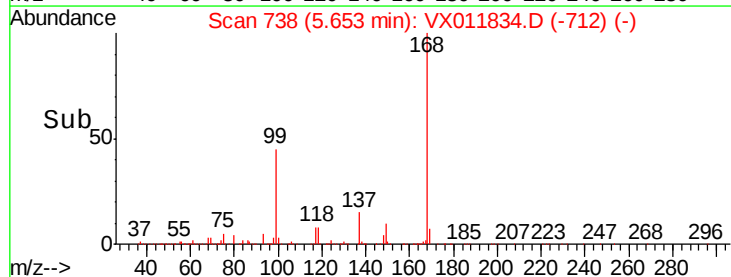
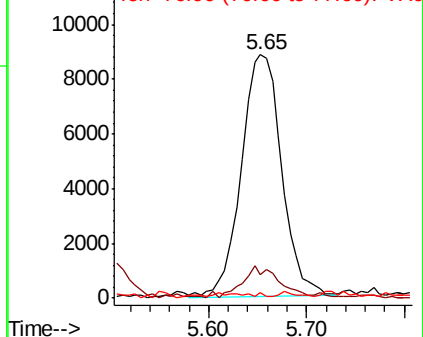
77 0.5 24.6 36.8#

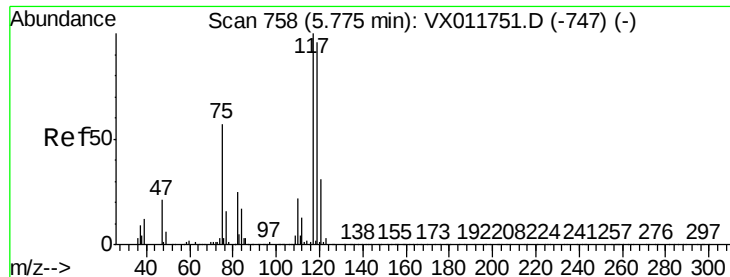


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.838 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

T1-2-K3-(2.5)

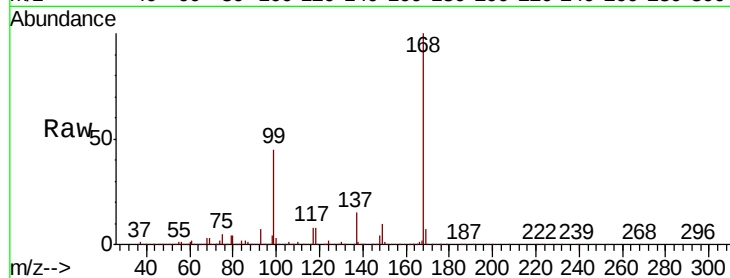
Tgt Ion:117 Resp: 38711

Ion Ratio Lower Upper

117 100

119 5.5 76.6 114.8#

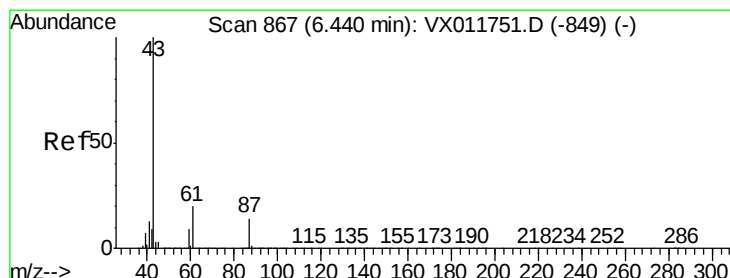
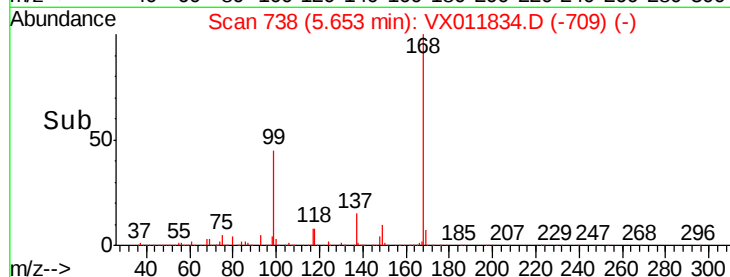
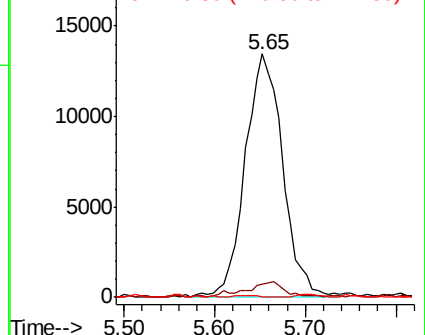
121 0.0 25.2 37.8#



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



#43

Isopropyl Acetate

Concen: 8.071 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

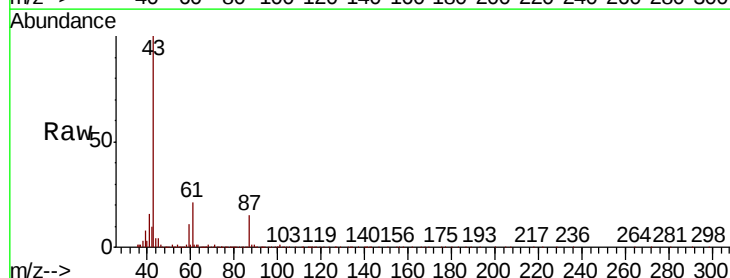
Tgt Ion: 43 Resp: 69054

Ion Ratio Lower Upper

43 100

61 20.7 16.2 24.2

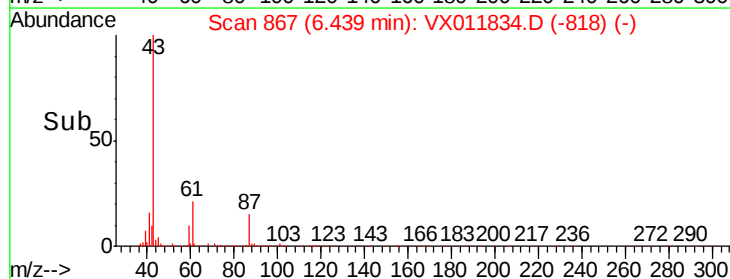
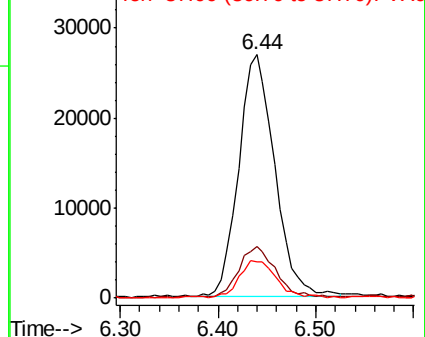
87 15.9 11.6 17.4

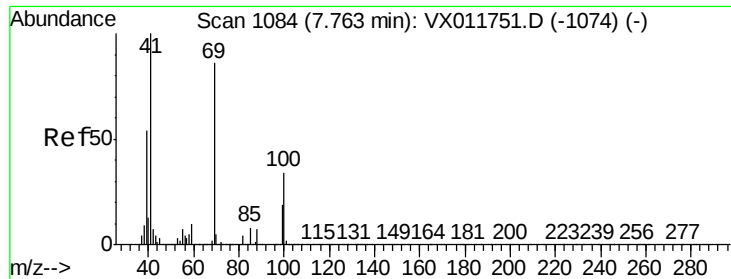


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

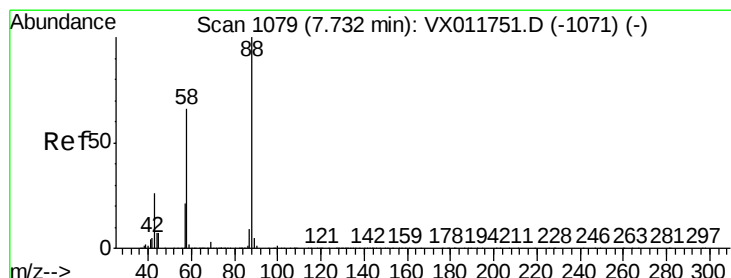
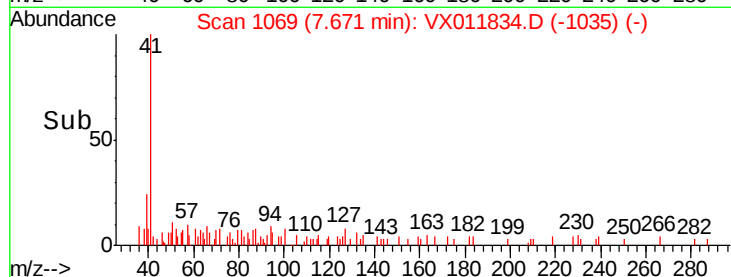
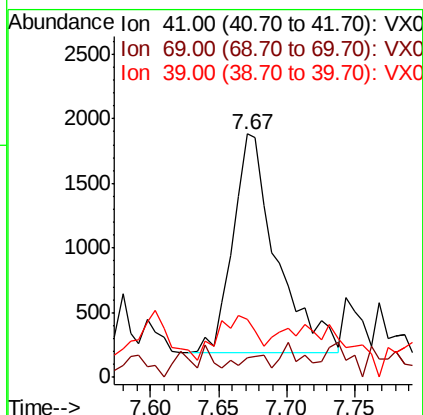
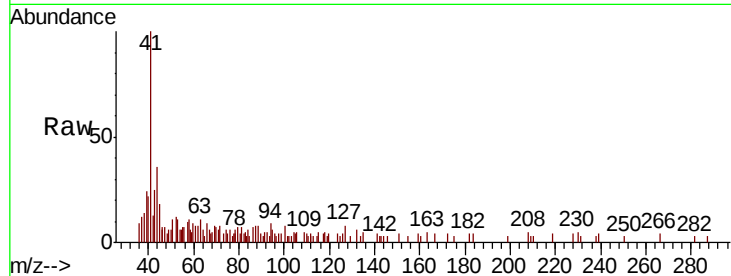




#48  
Methyl methacrylate  
Concen: 0.884 ug/l  
RT: 7.67 min Scan# 1069  
Delta R.T. -0.09 min  
Lab File: VX011834.D  
Acq: 24 Aug 2019 21:20

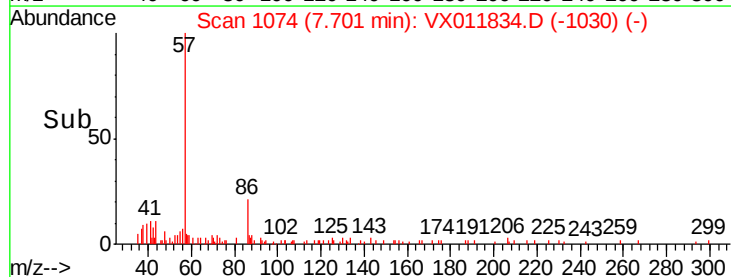
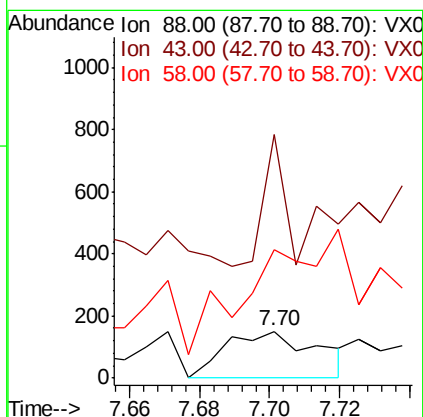
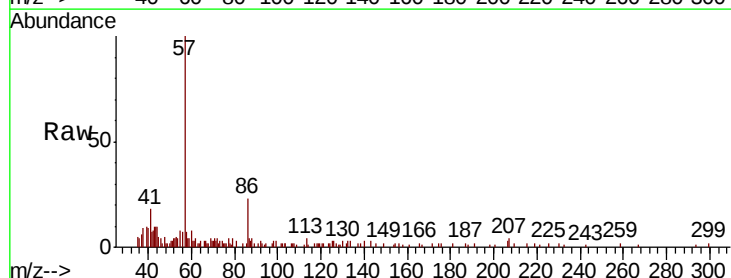
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-2-K3-(2.5)

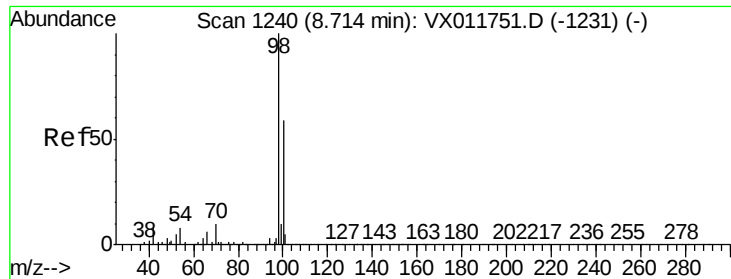
Tgt Ion: 41 Resp: 3763  
Ion Ratio Lower Upper  
41 100  
69 4.8 69.4 104.2#  
39 0.0 43.6 65.4#



#49  
1,4-Dioxane  
Concen: 2.314 ug/l  
RT: 7.70 min Scan# 1074  
Delta R.T. -0.03 min  
Lab File: VX011834.D  
Acq: 24 Aug 2019 21:20

Tgt Ion: 88 Resp: 273  
Ion Ratio Lower Upper  
88 100  
43 0.0 24.6 37.0#  
58 333.7 51.4 77.2#

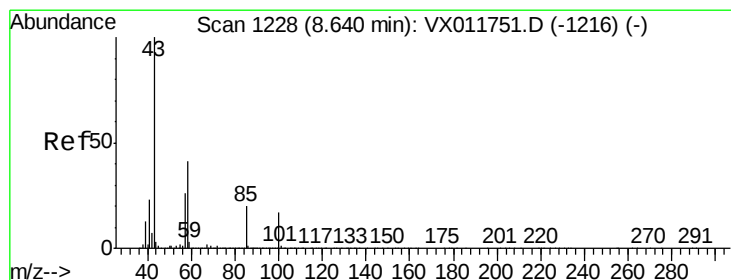
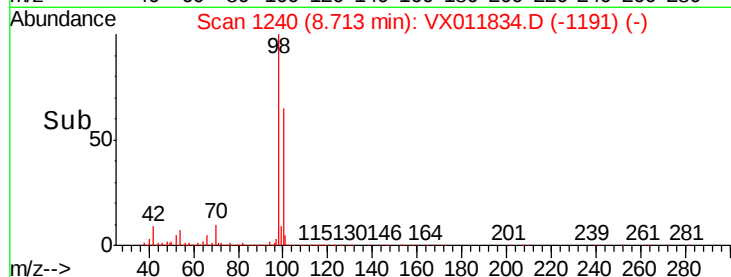
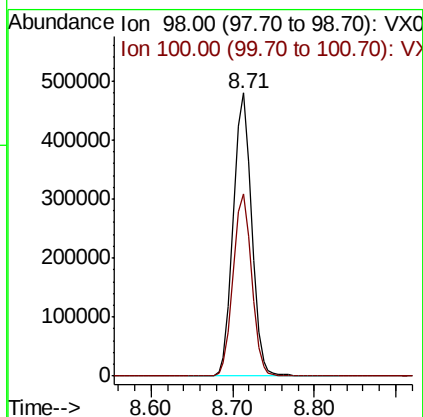
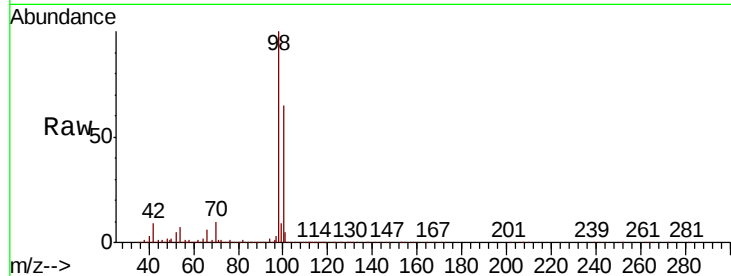




#50  
Toluene-d8  
Concen: 51.282 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX011834.D  
Acq: 24 Aug 2019 21:20

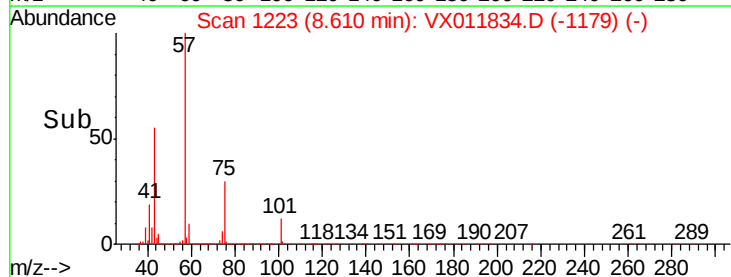
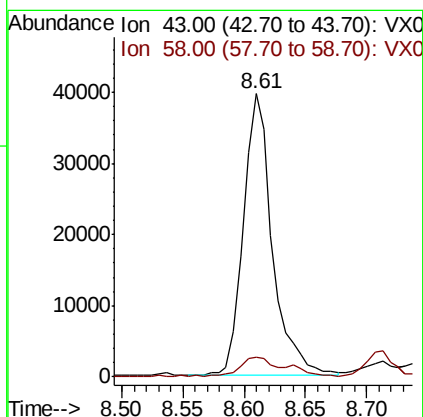
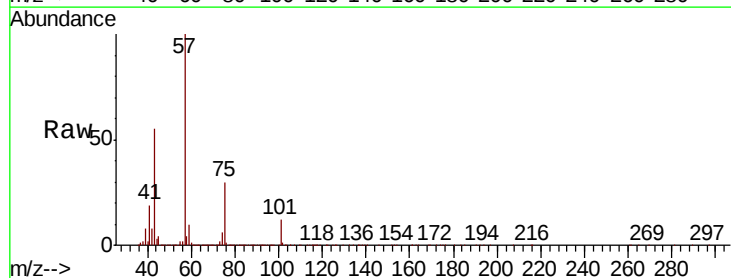
Instrument :  
MSVOA\_X  
ClientSampled :  
T1-2-K3-(2.5)

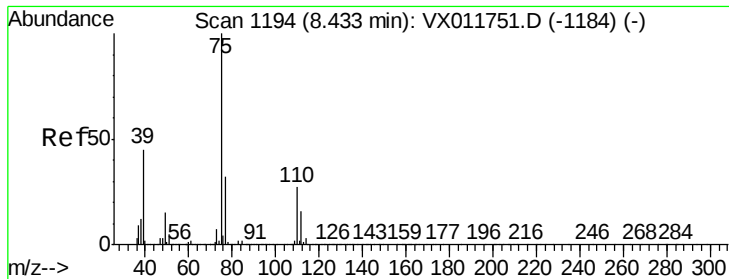
Tgt Ion: 98 Resp: 736753  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 11.534 ug/l  
RT: 8.61 min Scan# 1223  
Delta R.T. -0.03 min  
Lab File: VX011834.D  
Acq: 24 Aug 2019 21:20

Tgt Ion: 43 Resp: 65022  
Ion Ratio Lower Upper  
43 100  
58 11.2 31.8 47.6#



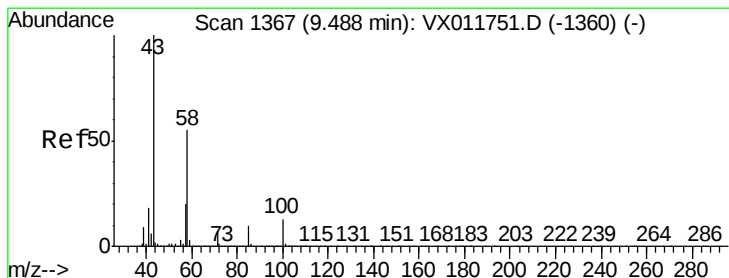
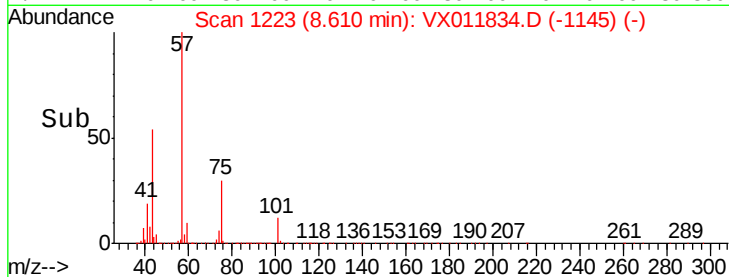
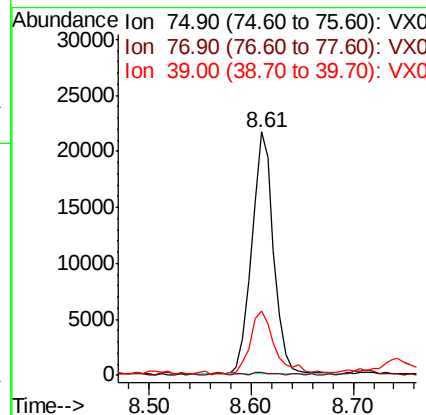
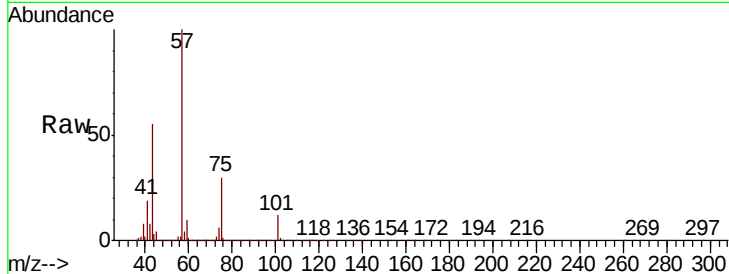


#54

cis-1,3-Dichloropropene  
 Concen: 5.459 ug/l  
 RT: 8.61 min Scan# 1223  
 Delta R.T. 0.18 min  
 Lab File: VX011834.D  
 Acq: 24 Aug 2019 21:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T1-2-K3-(2.5)

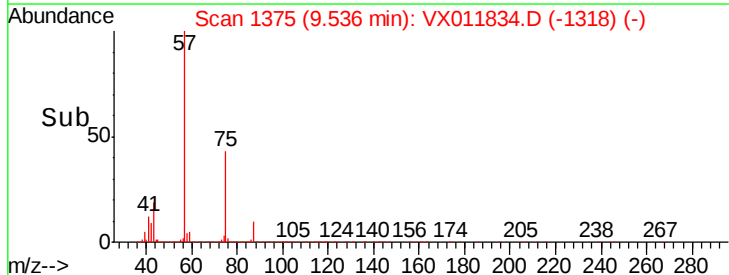
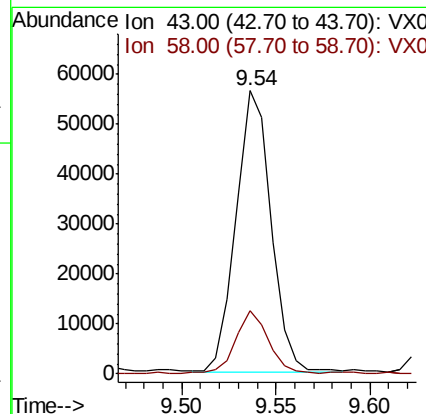
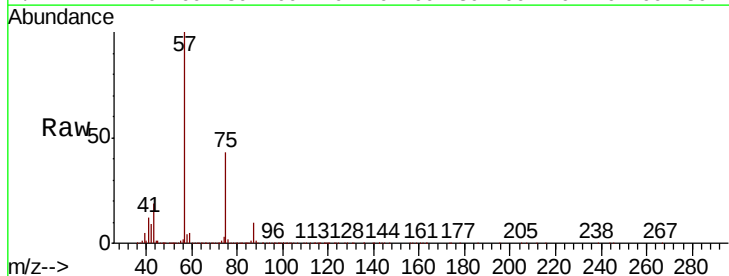
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.2   | 25.4  | 38.2# |
| 39      | 25.8  | 36.2  | 54.4# |

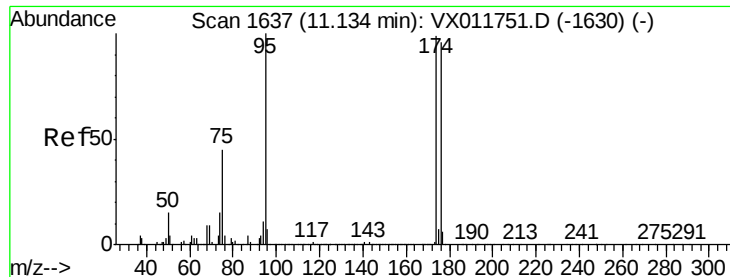


#59

2-Hexanone  
 Concen: 17.011 ug/l  
 RT: 9.54 min Scan# 1375  
 Delta R.T. 0.05 min  
 Lab File: VX011834.D  
 Acq: 24 Aug 2019 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 20.4  | 27.7  | 83.1# |





#62

4-Bromofluorobenzene

Concen: 48.005 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

T1-2-K3-(2.5)

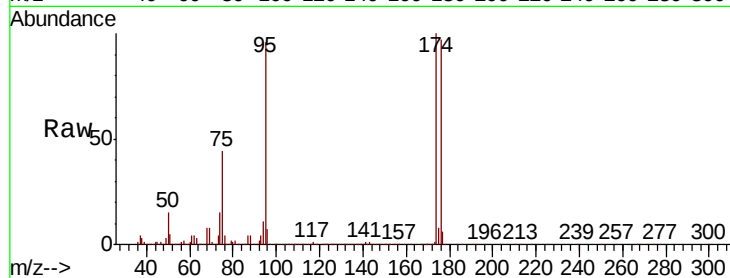
Tgt Ion: 95 Resp: 272598

Ion Ratio Lower Upper

95 100

174 104.2 0.0 197.4

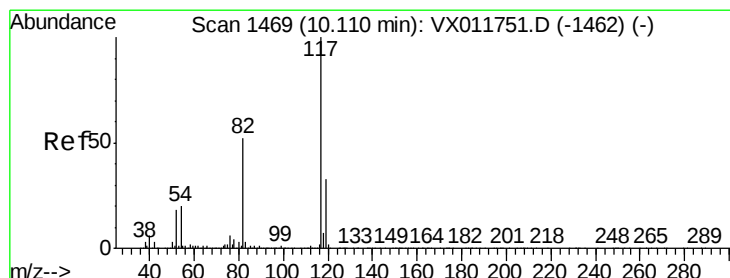
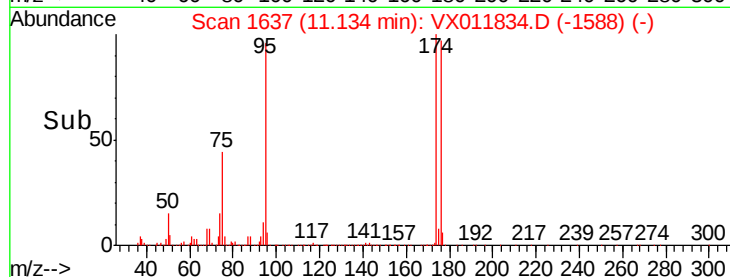
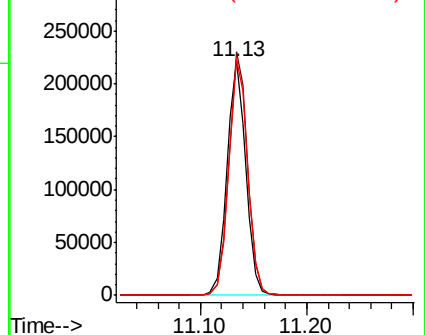
176 101.4 0.0 194.4



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: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

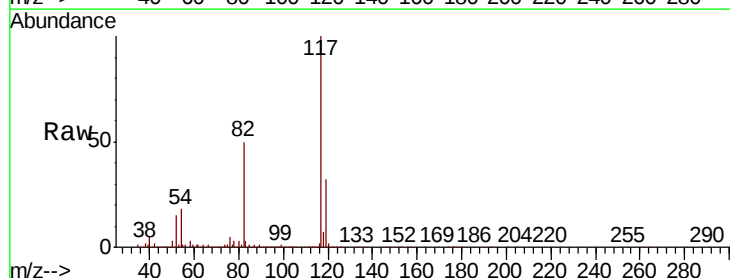
Tgt Ion: 117 Resp: 604644

Ion Ratio Lower Upper

117 100

82 50.2 41.7 62.5

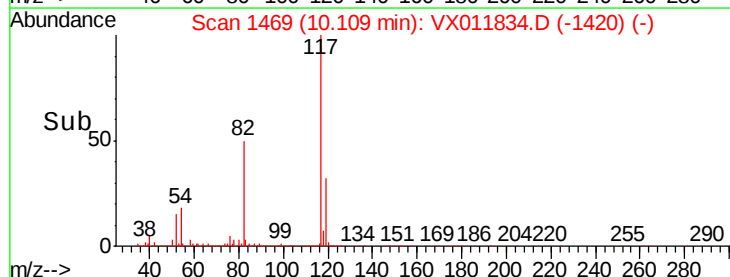
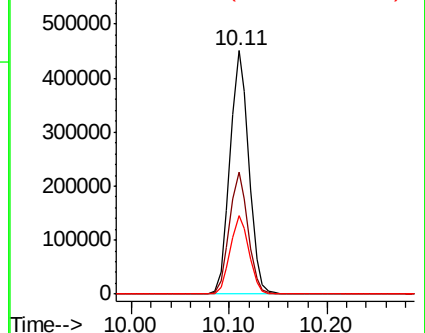
119 32.4 26.2 39.2

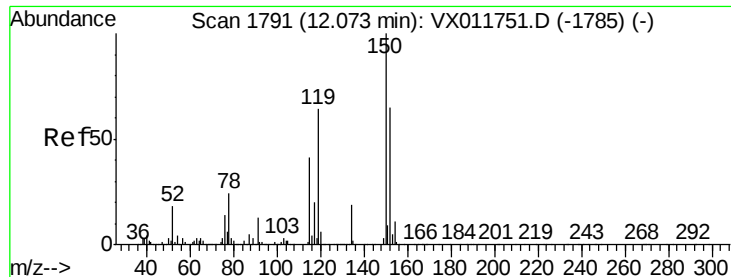


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

T1-2-K3-(2.5)

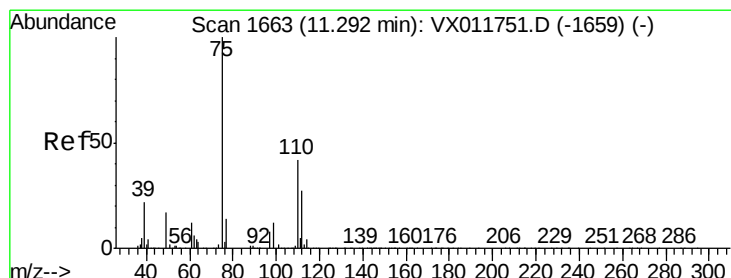
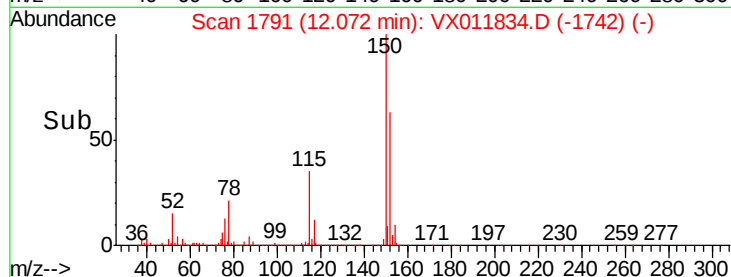
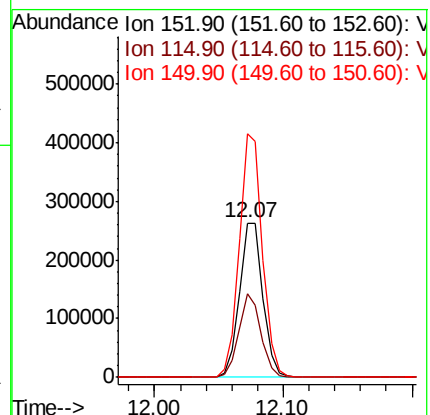
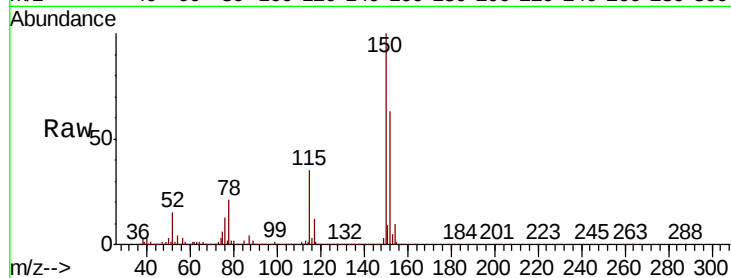
Tgt Ion: 152 Resp: 333656

Ion Ratio Lower Upper

152 100

115 51.5 37.3 111.8

150 155.3 0.0 343.0



#76

1,2,3-Trichloropropane

Concen: 21.043 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011834.D

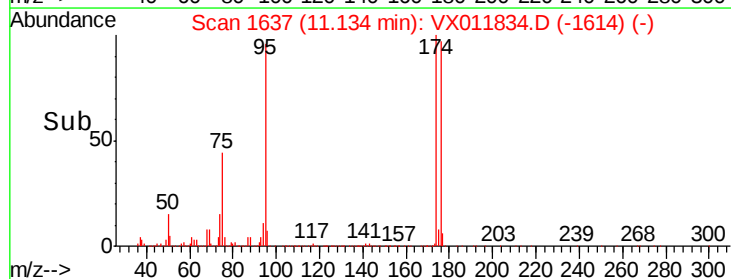
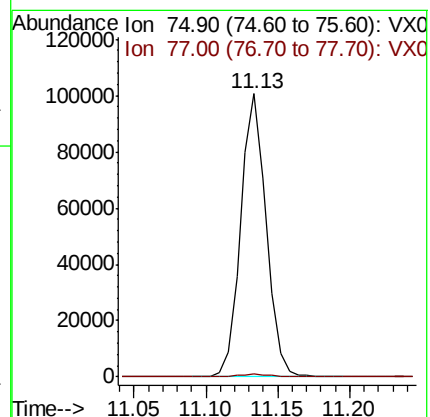
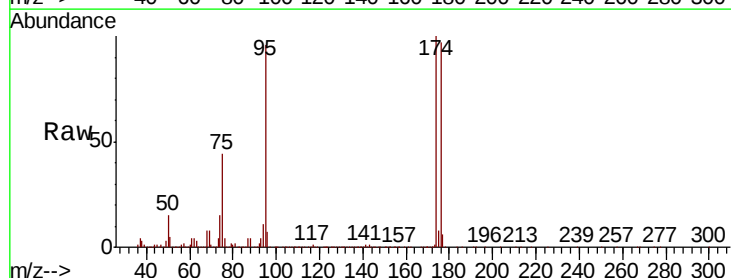
Acq: 24 Aug 2019 21:20

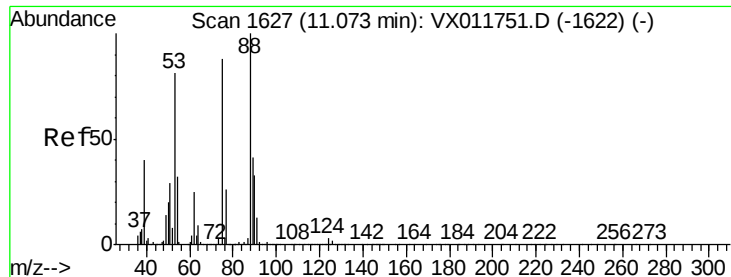
Tgt Ion: 75 Resp: 123199

Ion Ratio Lower Upper

75 100

77 1.4 21.1 63.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 63.462 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011834.D

Acq: 24 Aug 2019 21:20

Instrument :

MSVOA\_X

ClientSampleId :

T1-2-K3-(2.5)

Tgt Ion: 75 Resp: 123199

Ion Ratio Lower Upper

75 100

53 0.3 77.1 115.7#

89 0.0 38.5 57.7#

