

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX021419\  
 Data File : VX007513.D  
 Acq On : 13 Feb 2019 11:38  
 Operator : JC/SP  
 Sample : VX0214WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0214WBL01

Quant Time: Feb 13 11:57:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

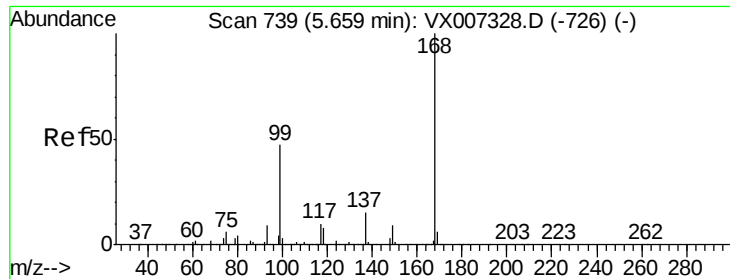
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 515187   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 808545   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 749874   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 352639   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 280441   | 51.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.56% |      |
| 35) Dibromofluoromethane    | 5.50   | 113 | 264466   | 50.27 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.54% |      |
| 50) Toluene-d8              | 8.71   | 98  | 951823   | 48.76 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.52%  |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 333904   | 46.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.70%  |      |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.21  | 85   | 278      | 0.221     | ug/l # | 43     |
| 3) Chloromethane               | 1.33  | 50   | 1226     | 0.211     | ug/l # | 65     |
| 5) Bromomethane                | 1.67  | 94   | 1431     | Below Cal | #      | 35     |
| 11) Tert butyl alcohol         | 3.06  | 59   | 357      | 0.315     | ug/l # | 1      |
| 13) Acrolein                   | 2.31  | 56   | 473      | 0.891     | ug/l # | 43     |
| 16) Acetone                    | 2.44  | 43   | 1126     | 0.450     | ug/l # | 57     |
| 17) Carbon Disulfide           | 2.57  | 76   | 2635     | 2.317     | ug/l # | 83     |
| 18) Methyl Acetate             | 2.78  | 43   | 1474     | 0.816     | ug/l # | 62     |
| 20) Methylene Chloride         | 2.85  | 84   | 757      | Below Cal | #      | 59     |
| 31) Cyclohexane                | 5.67  | 56   | 8999     | 1.183     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 34461    | 4.750     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 47478    | 6.746     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 209      | 8.491     | ug/l # | 1      |
| 71) Bromoform                  | 10.86 | 173  | 102      | 4.049     | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 157837   | 23.011    | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 157837   | 69.338    | ug/l # | 9      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Instrument :

MSVOA\_X

ClientSampleId :

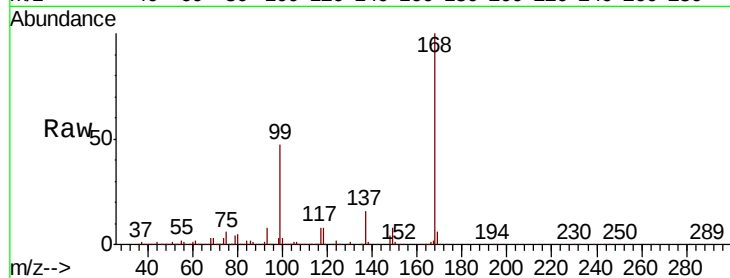
VX0214WBL01

Tgt Ion:168 Resp: 515187

Ion Ratio Lower Upper

168 100

99 46.7 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

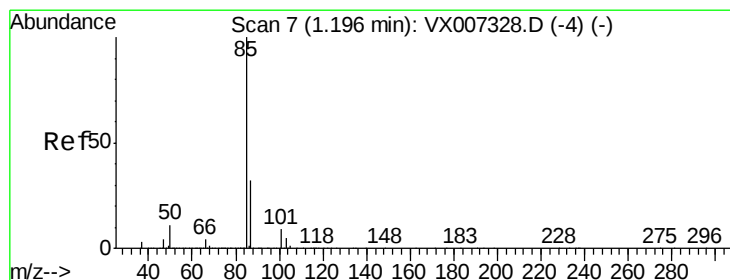
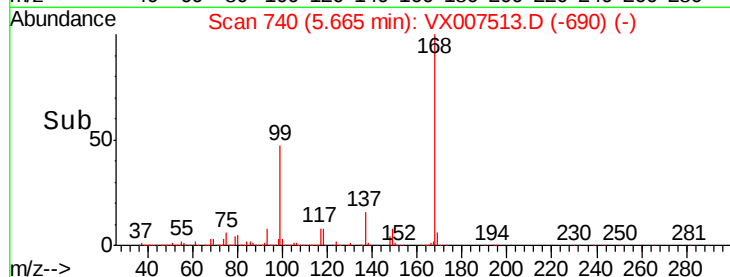
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.221 ug/l

RT: 1.21 min Scan# 9

Delta R.T. 0.01 min

Lab File: VX007513.D

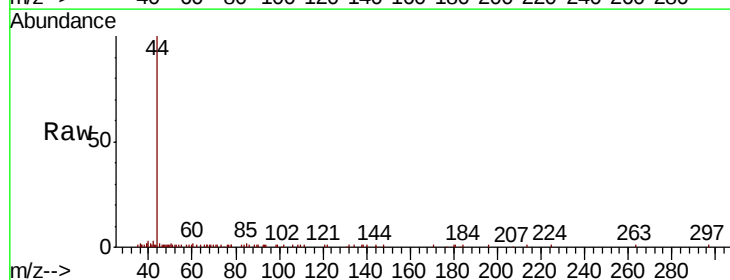
Acq: 13 Feb 2019 11:38

Tgt Ion: 85 Resp: 278

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

250

200

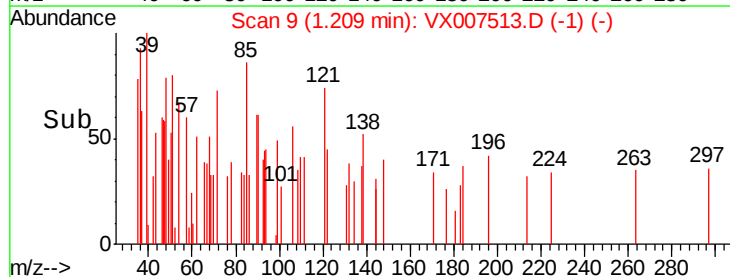
150

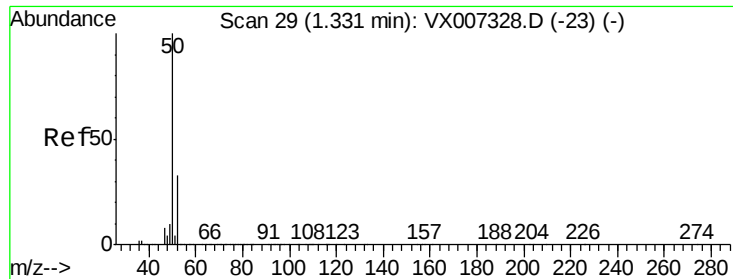
100

50

0

Time--> 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.211 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Instrument :

MSVOA\_X

ClientSampleId :

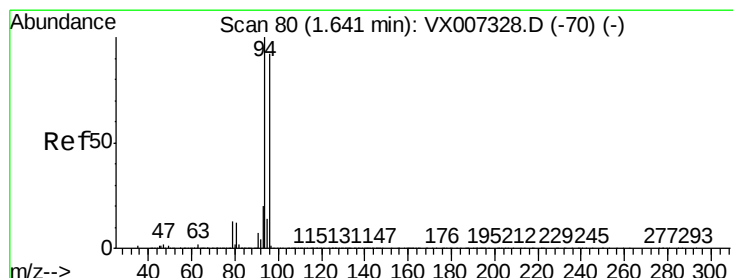
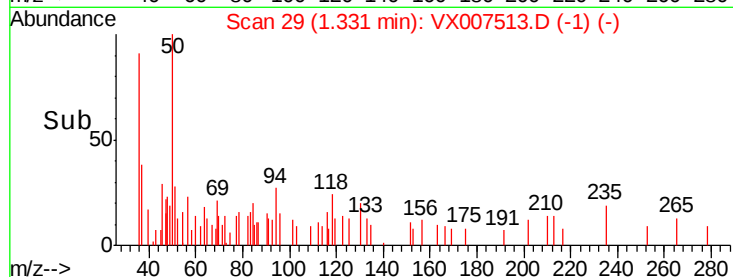
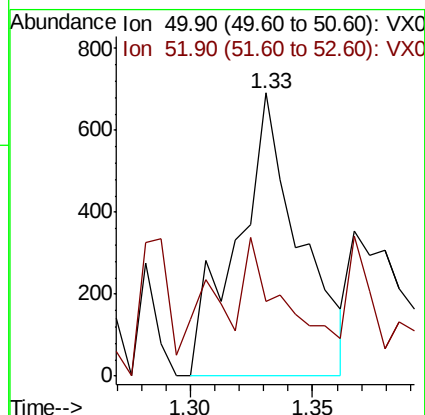
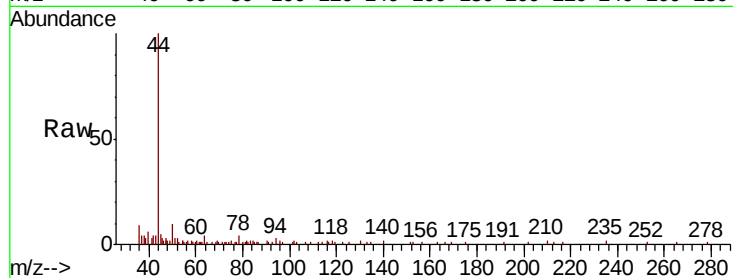
VX0214WBL01

Tgt Ion: 50 Resp: 1226

Ion Ratio Lower Upper

50 100

52 13.2 26.1 39.1#



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX007513.D

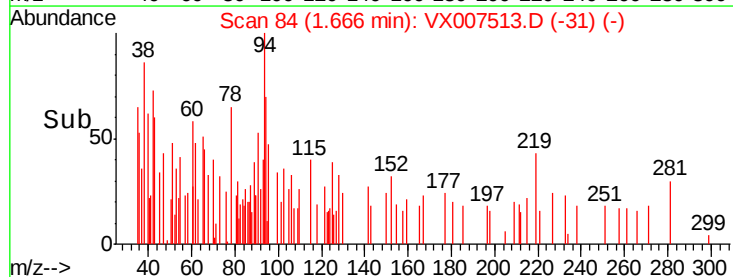
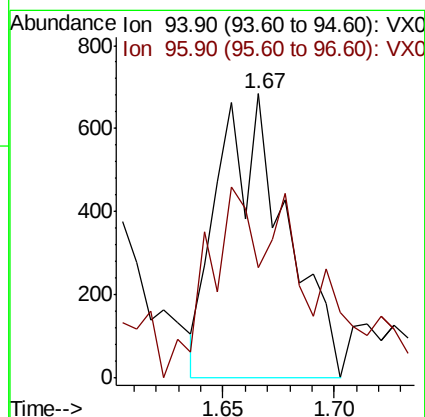
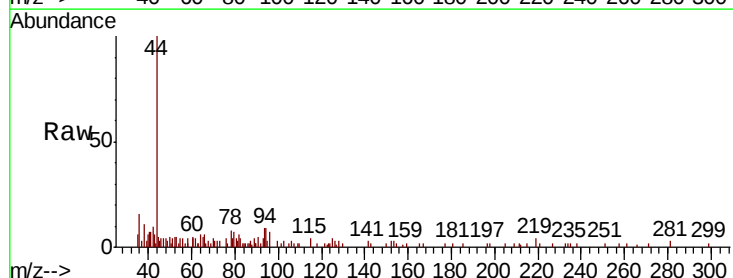
Acq: 13 Feb 2019 11:38

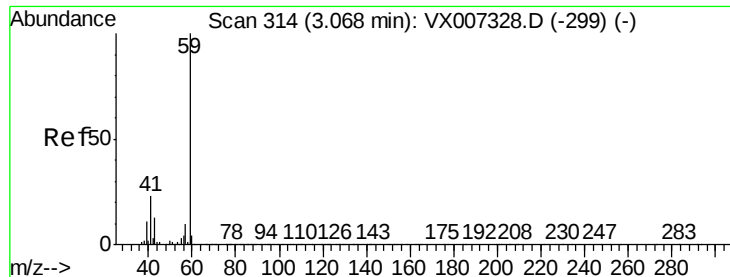
Tgt Ion: 94 Resp: 1431

Ion Ratio Lower Upper

94 100

96 29.9 73.9 110.9#



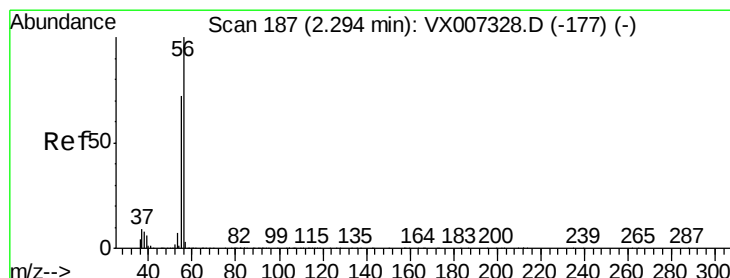
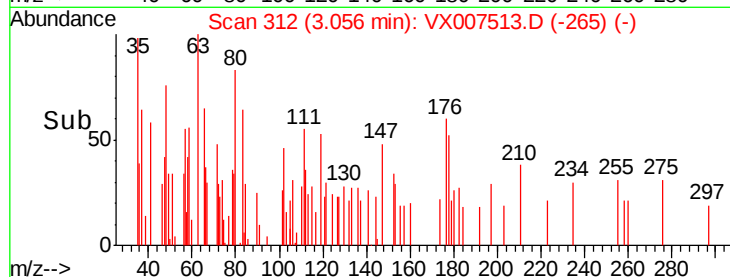
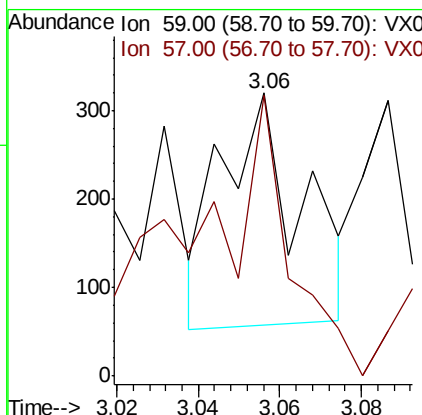
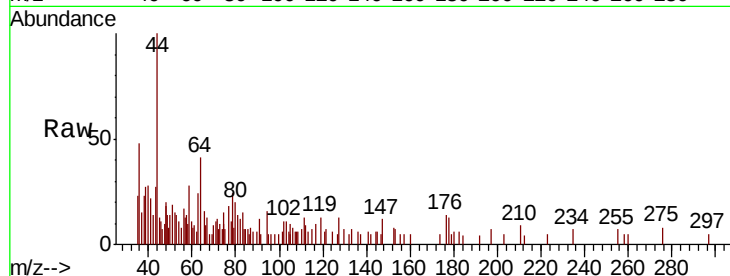


#11

Tert butyl alcohol  
Concen: 0.315 ug/l  
RT: 3.06 min Scan# 312  
Delta R.T. -0.01 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0214WBL01

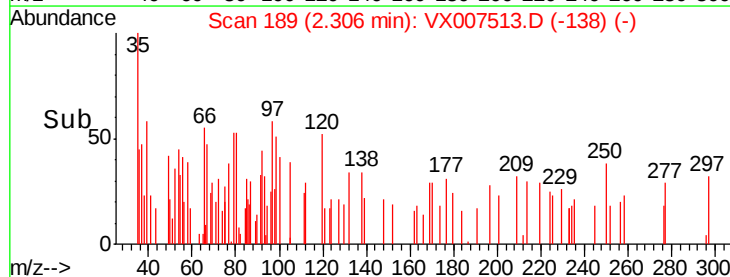
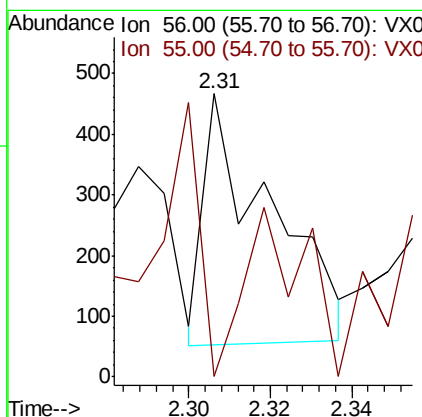
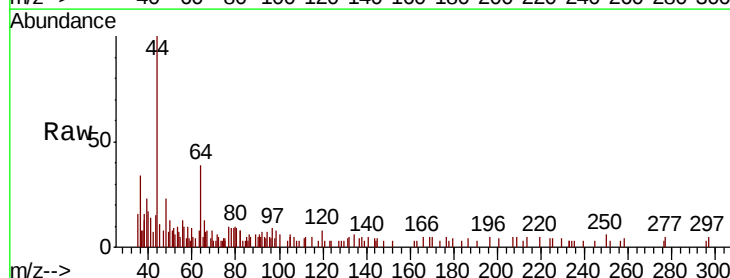
Tgt Ion: 59 Resp: 357  
Ion Ratio Lower Upper  
59 100  
57 90.2 8.1 12.1#

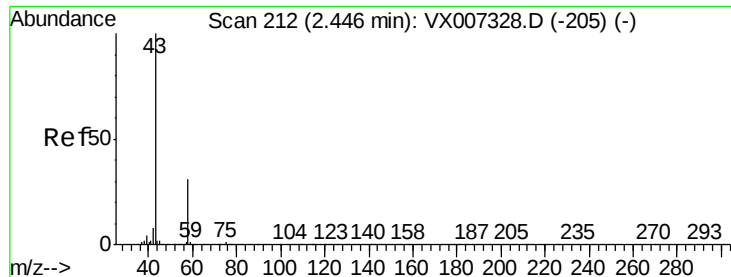


#13

Acrolein  
Concen: 0.891 ug/l  
RT: 2.31 min Scan# 189  
Delta R.T. 0.01 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

Tgt Ion: 56 Resp: 473  
Ion Ratio Lower Upper  
56 100  
55 24.1 56.9 85.3#





#16

Acetone

Concen: 0.450 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Instrument :

MSVOA\_X

ClientSampled :

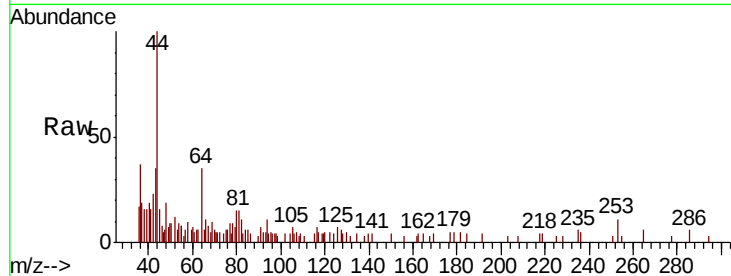
VX0214WBL01

Tgt Ion: 43 Resp: 1126

Ion Ratio Lower Upper

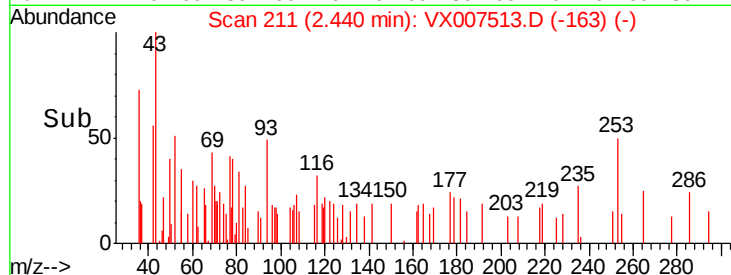
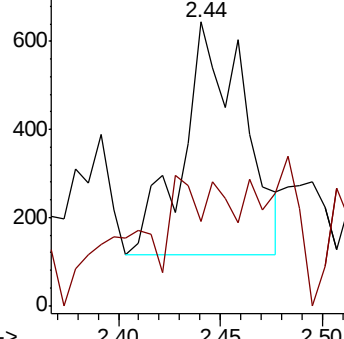
43 100

58 7.4 24.9 37.3#

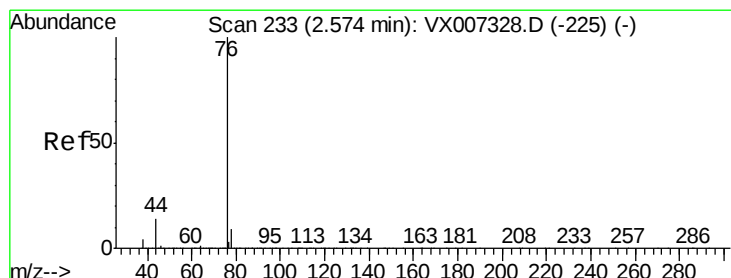


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: 2.317 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007513.D

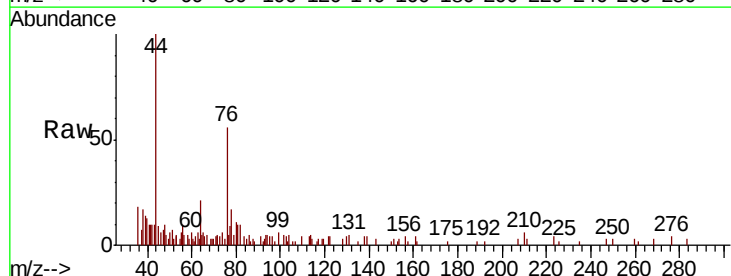
Acq: 13 Feb 2019 11:38

Tgt Ion: 76 Resp: 2635

Ion Ratio Lower Upper

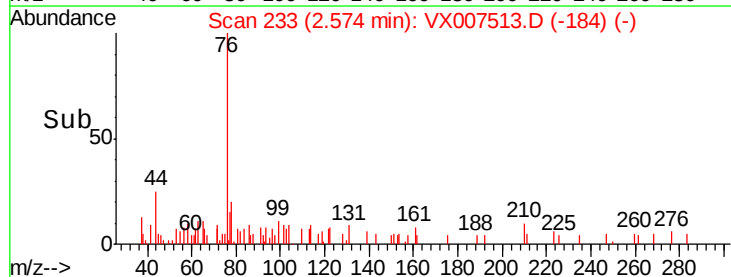
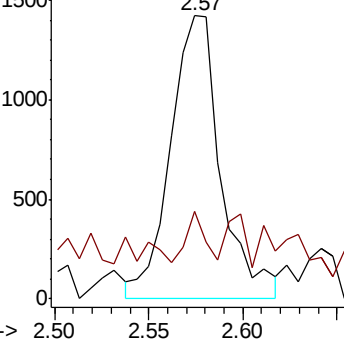
76 100

78 15.0 7.1 10.7#

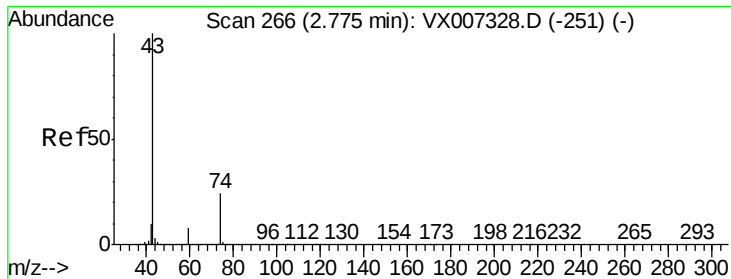


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



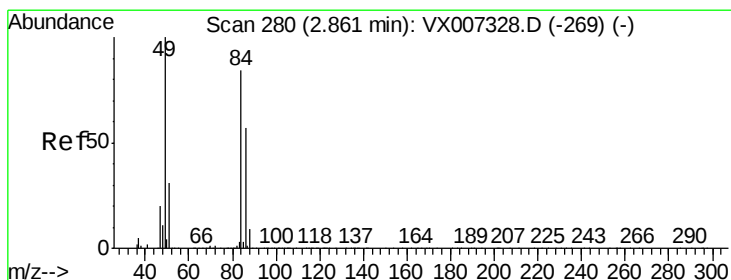
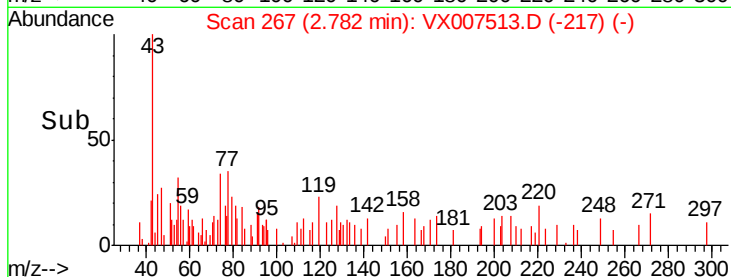
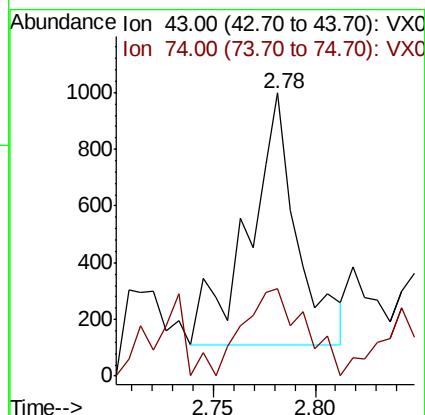
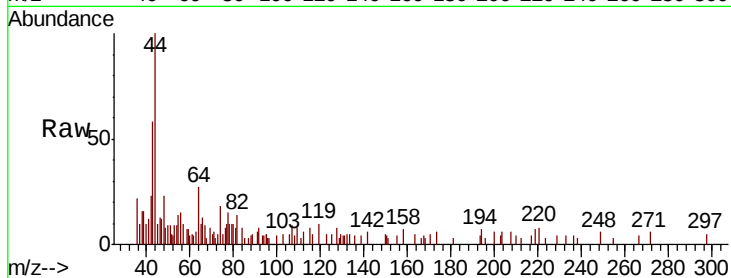
Time-->



#18  
Methyl Acetate  
Concen: 0.816 ug/l  
RT: 2.78 min Scan# 267  
Delta R.T. 0.01 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

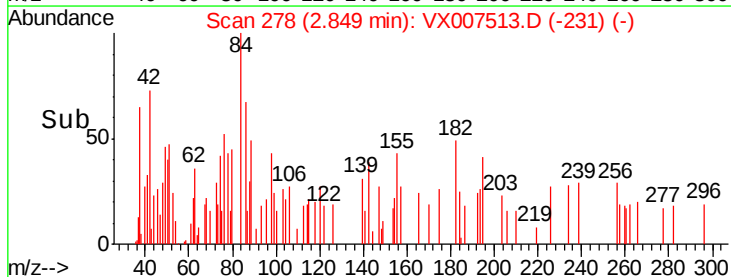
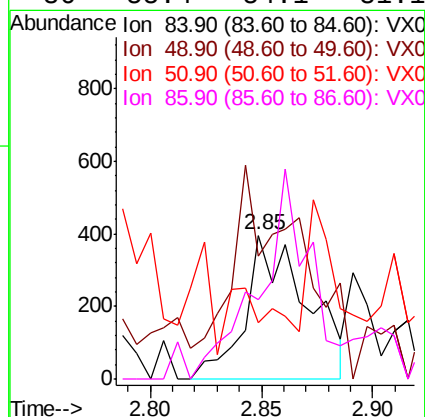
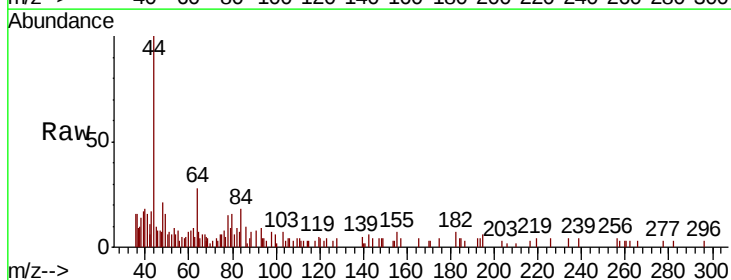
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0214WBL01

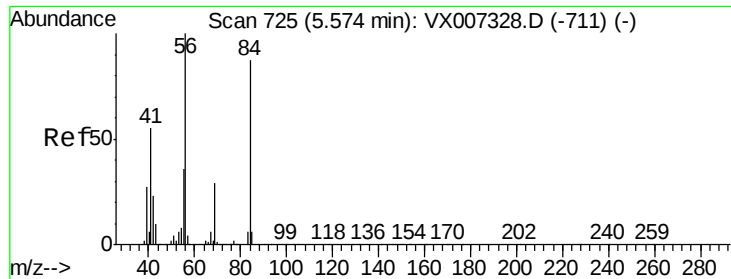
Tgt Ion: 43 Resp: 1474  
Ion Ratio Lower Upper  
43 100  
74 43.4 19.4 29.2#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.85 min Scan# 278  
Delta R.T. -0.01 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

Tgt Ion: 84 Resp: 757  
Ion Ratio Lower Upper  
84 100  
49 64.6 94.8 142.2#  
51 0.0 29.8 44.8#  
86 55.4 54.1 81.1

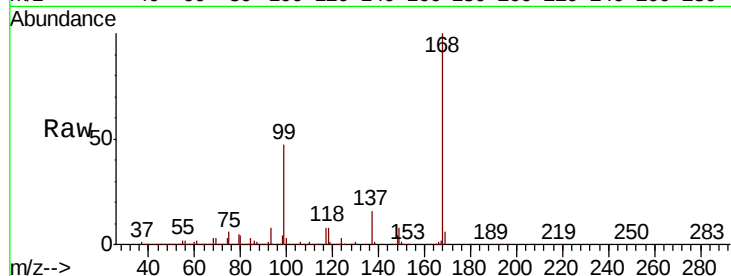




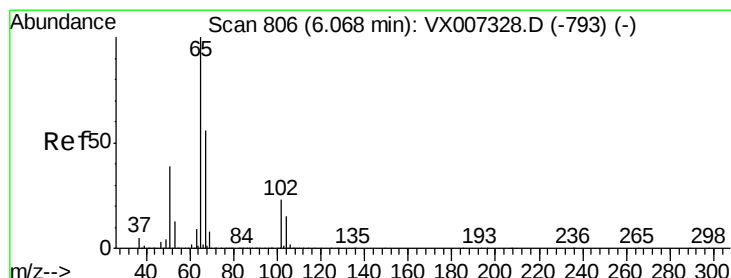
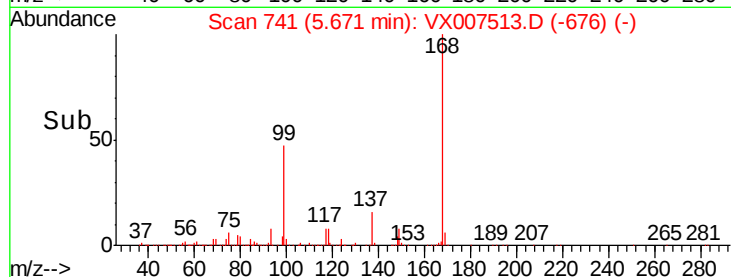
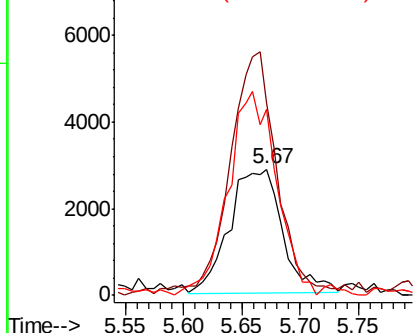
#31  
Cyclohexane  
Concen: 1.183 ug/l  
RT: 5.67 min Scan# 741  
Delta R.T. 0.10 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0214WBL01

Tgt Ion: 56 Resp: 8999  
Ion Ratio Lower Upper  
56 100  
69 152.3 23.0 34.6#  
84 147.0 69.8 104.6#

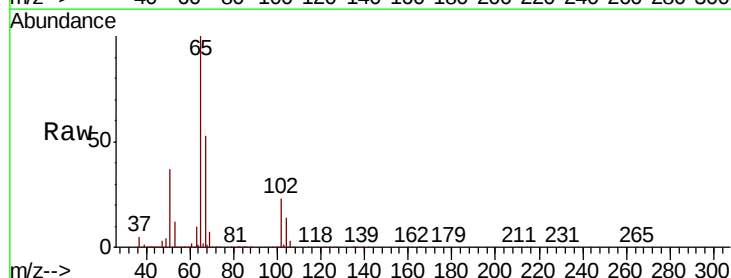


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

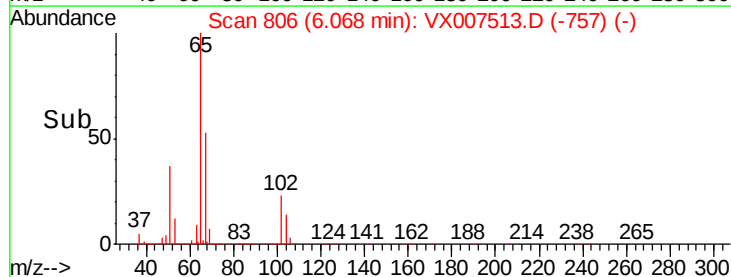
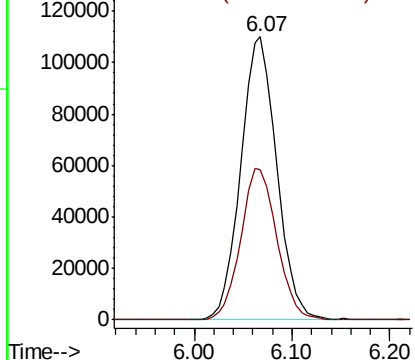


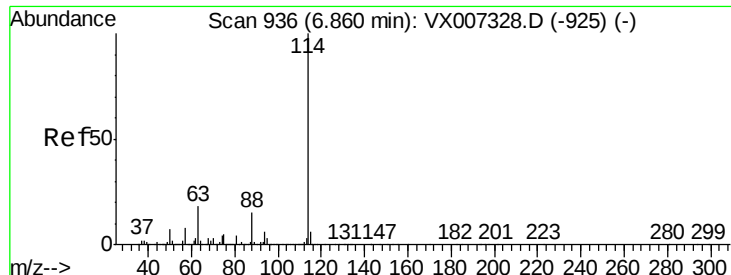
#33  
1,2-Dichloroethane-d4  
Concen: 51.285 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

Tgt Ion: 65 Resp: 280441  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 108.8



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Instrument :

MSVOA\_X

ClientSampleId :

VX0214WBL01

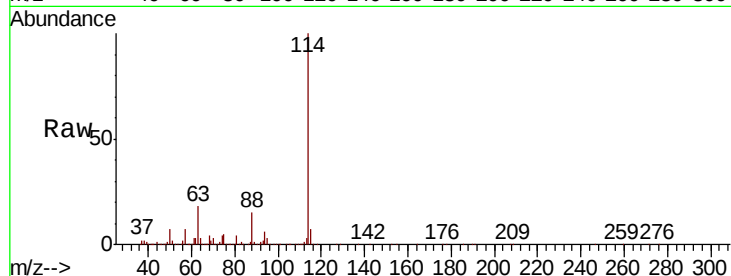
Tgt Ion:114 Resp: 808545

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

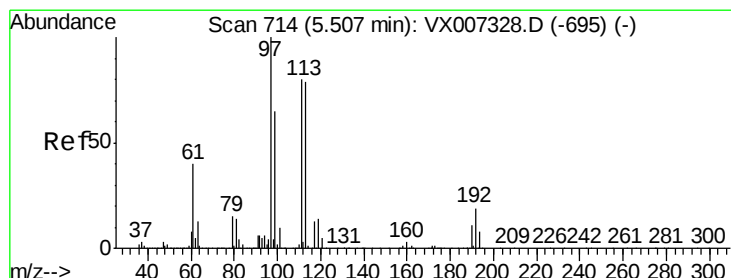
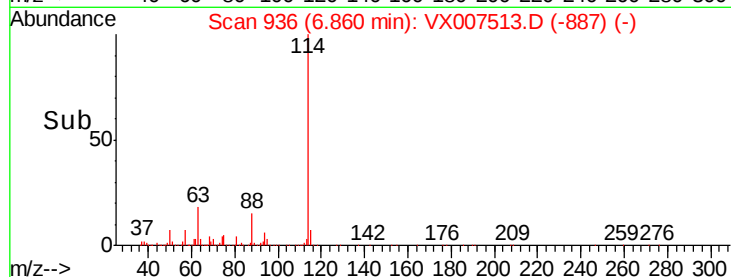
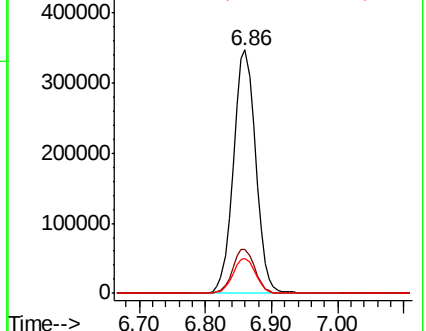
88 14.5 0.0 29.6



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: 50.270 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

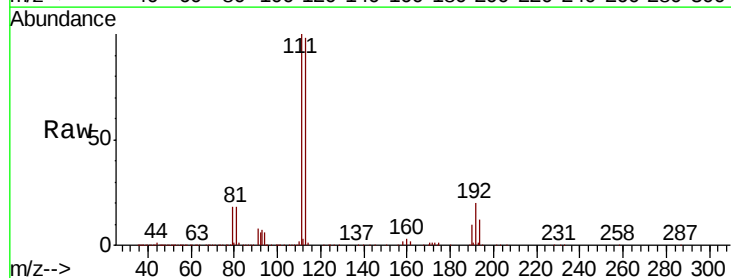
Tgt Ion:113 Resp: 264466

Ion Ratio Lower Upper

113 100

111 101.9 81.8 122.8

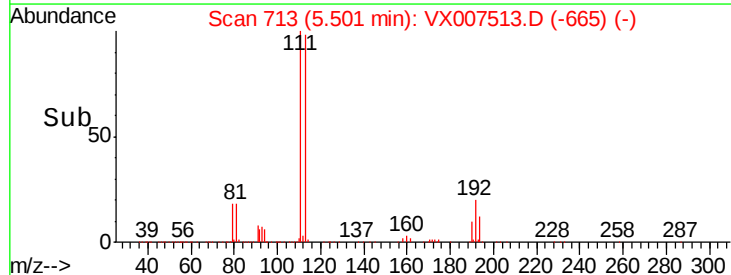
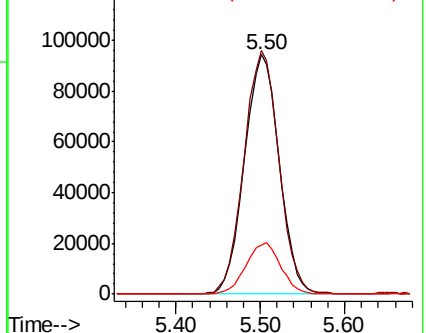
192 21.7 18.5 27.7

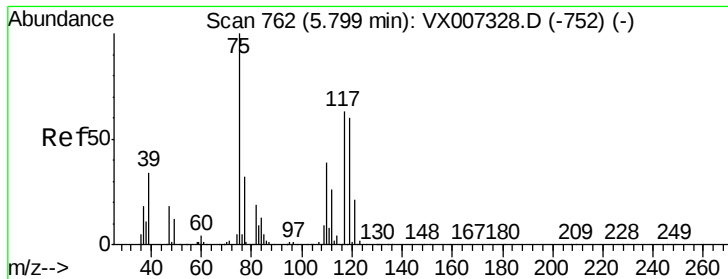


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

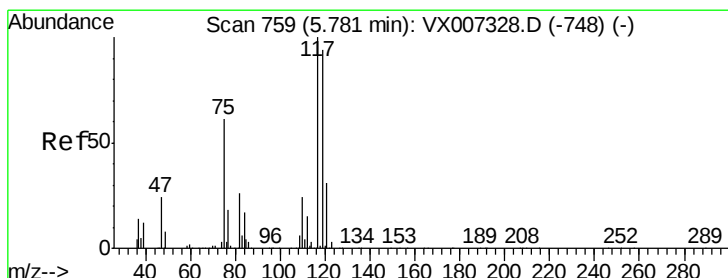
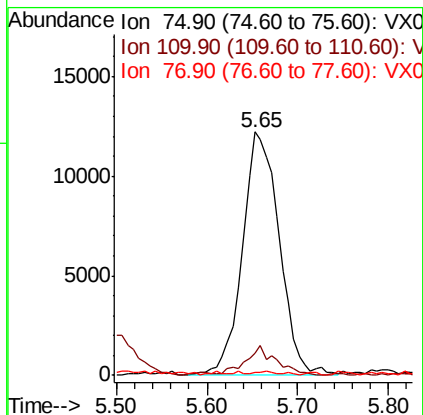
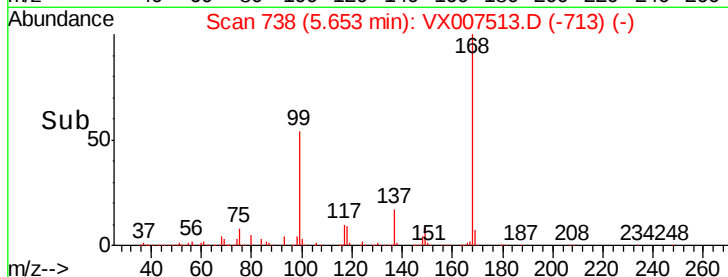
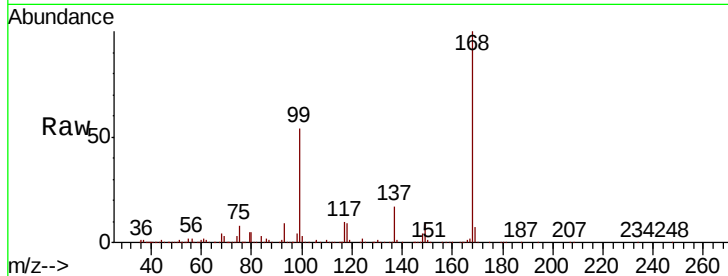




#36  
 1,1-Dichloropropene  
 Concen: 4.750 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.15 min  
 Lab File: VX007513.D  
 Acq: 13 Feb 2019 11:38

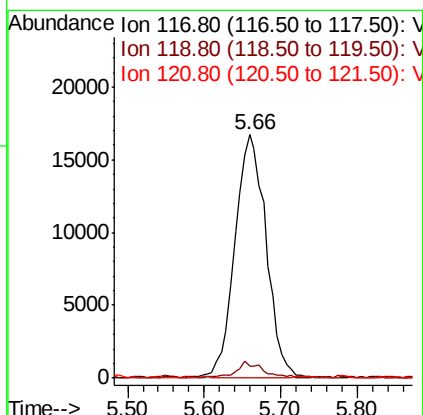
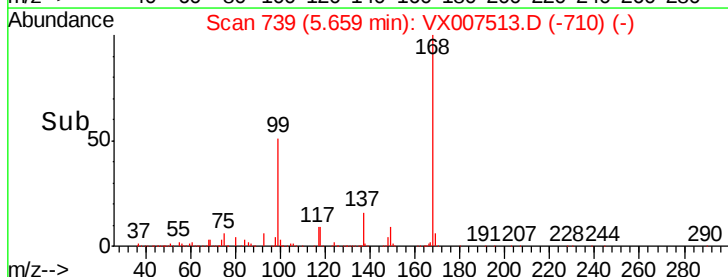
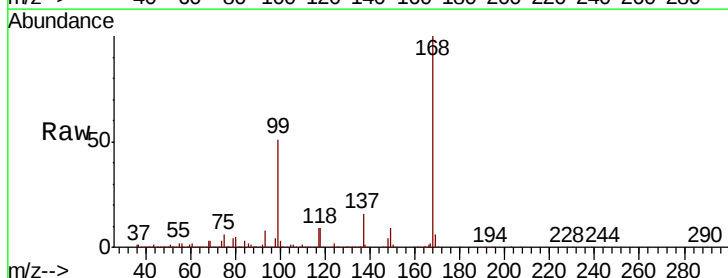
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0214WBL01

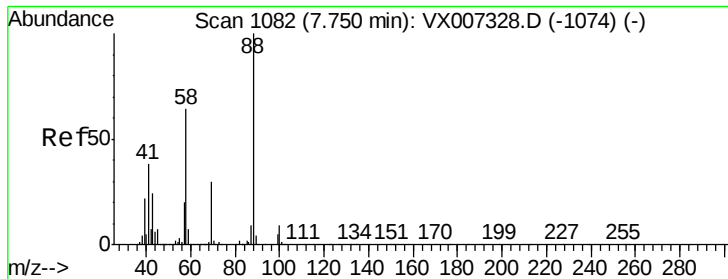
Tgt Ion: 75 Resp: 34461  
 Ion Ratio Lower Upper  
 75 100  
 110 10.1 20.0 59.9#  
 77 1.2 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 6.746 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX007513.D  
 Acq: 13 Feb 2019 11:38

Tgt Ion: 117 Resp: 47478  
 Ion Ratio Lower Upper  
 117 100  
 119 4.7 75.3 112.9#  
 121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 8.491 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Instrument :

MSVOA\_X

ClientSampled :

VX0214WBL01

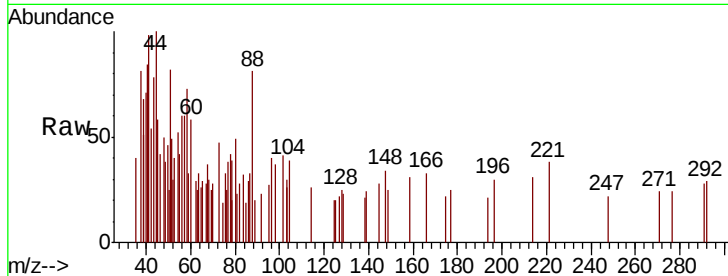
Tgt Ion: 88 Resp: 209

Ion Ratio Lower Upper

88 100

43 161.7 24.2 36.4#

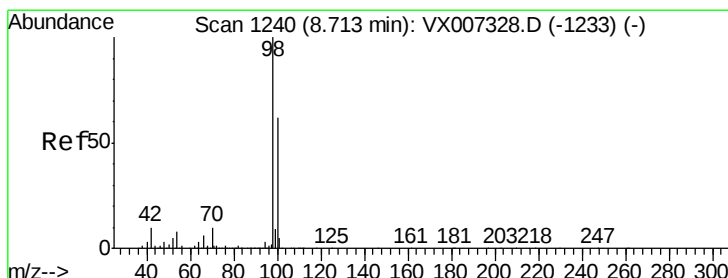
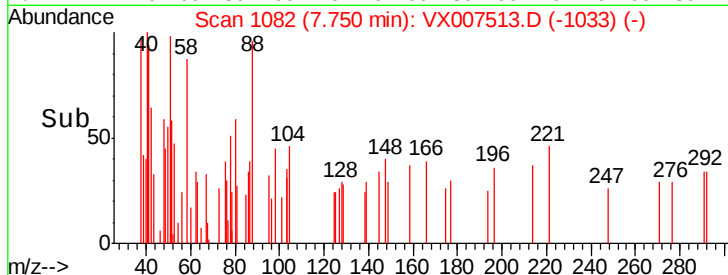
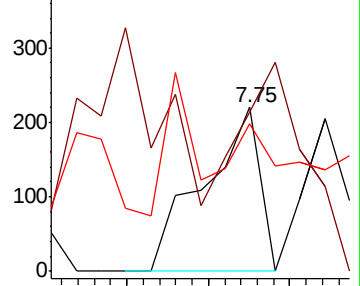
58 0.0 53.0 79.4#



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: 48.764 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007513.D

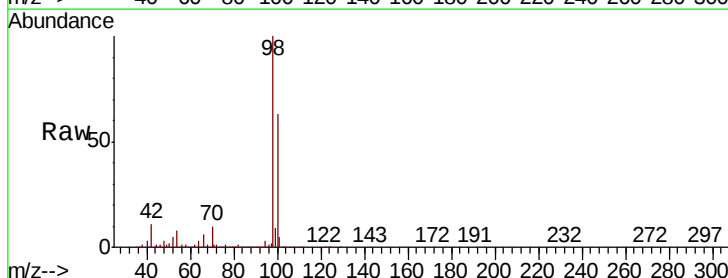
Acq: 13 Feb 2019 11:38

Tgt Ion: 98 Resp: 951823

Ion Ratio Lower Upper

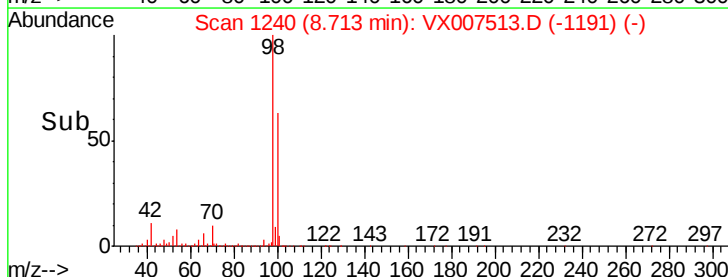
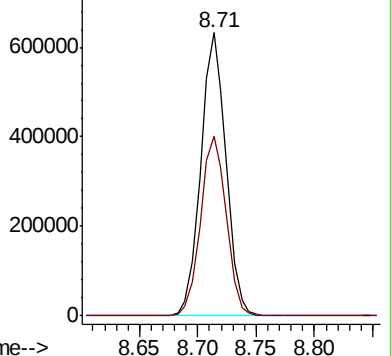
98 100

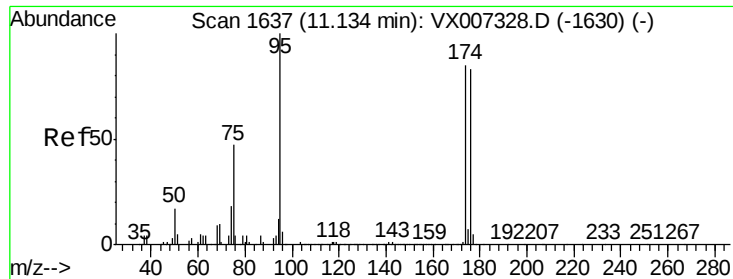
100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

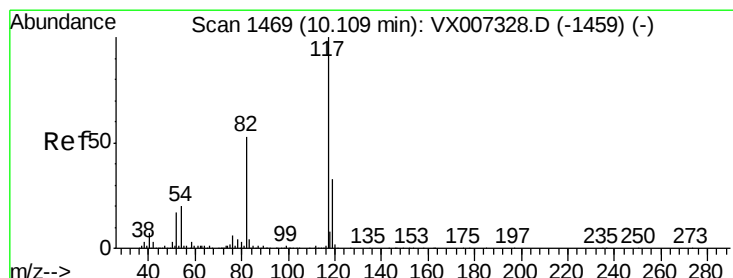
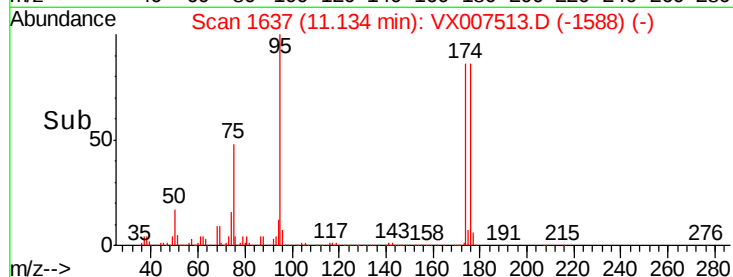
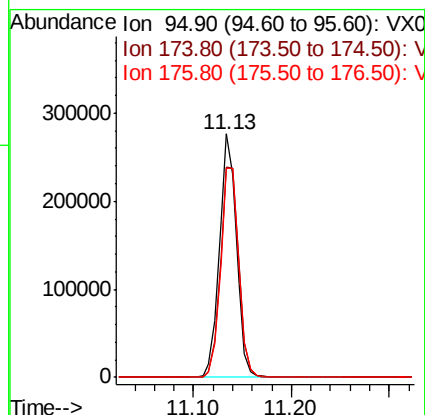
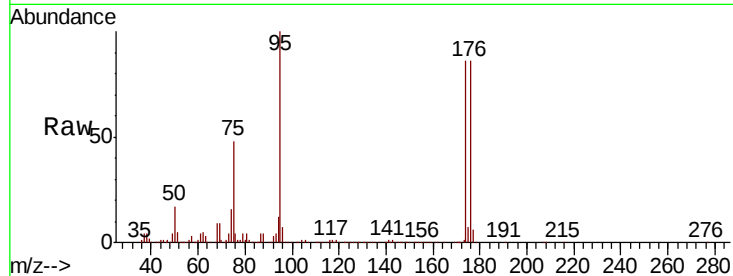




#62  
4-Bromofluorobenzene  
Concen: 46.855 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

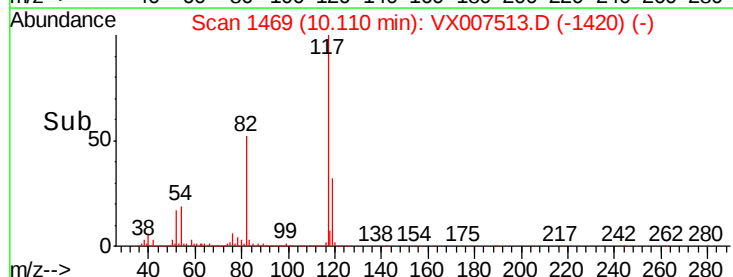
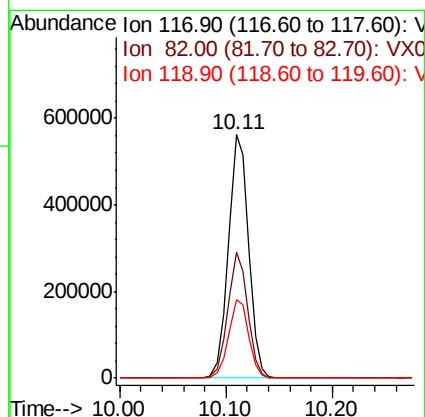
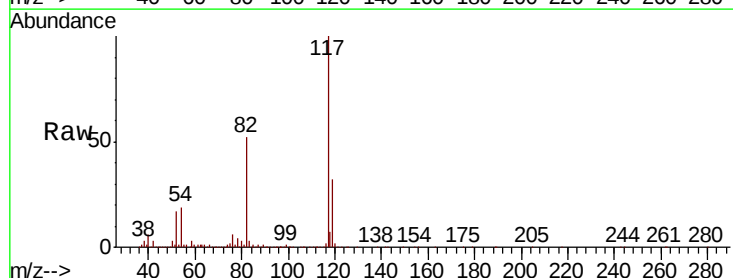
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0214WBL01

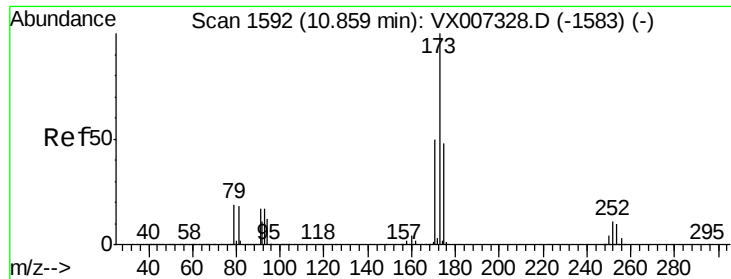
Tgt Ion: 95 Resp: 333904  
Ion Ratio Lower Upper  
95 100  
174 92.6 0.0 189.2  
176 91.0 0.0 186.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX007513.D  
Acq: 13 Feb 2019 11:38

Tgt Ion: 117 Resp: 749874  
Ion Ratio Lower Upper  
117 100  
82 51.8 42.1 63.1  
119 32.4 26.5 39.7





#71

Bromoform

Concen: 4.049 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Instrument :

MSVOA\_X

ClientSampleId :

VX0214WBL01

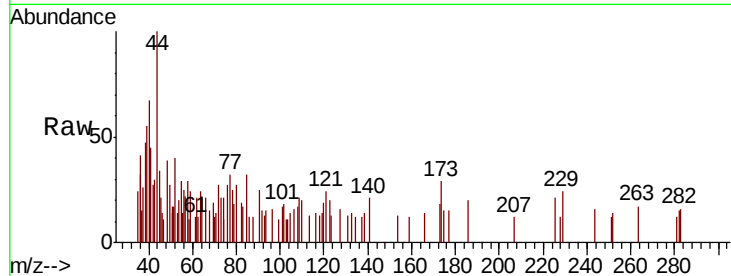
Tgt Ion:173 Resp: 102

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

254 0.0 0.2 0.2#

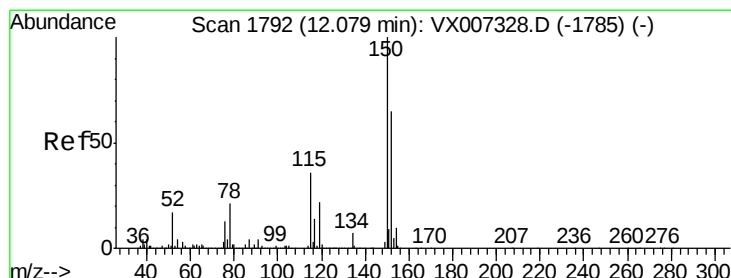
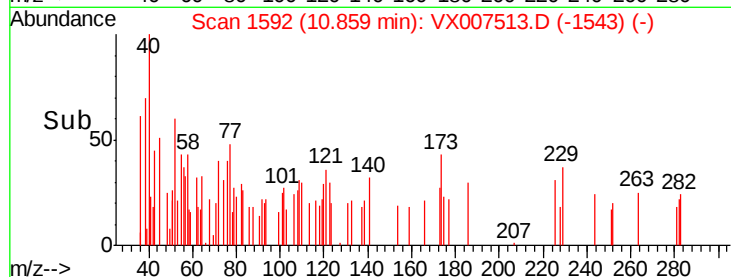
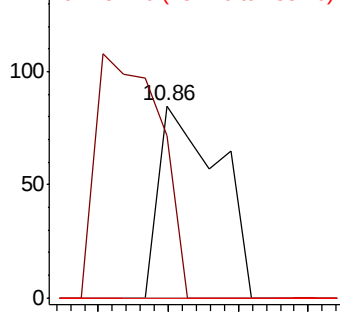


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

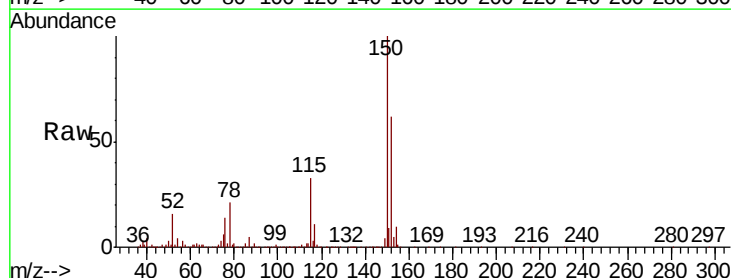
Tgt Ion:152 Resp: 352639

Ion Ratio Lower Upper

152 100

115 54.2 38.0 114.0

150 158.2 0.0 346.4

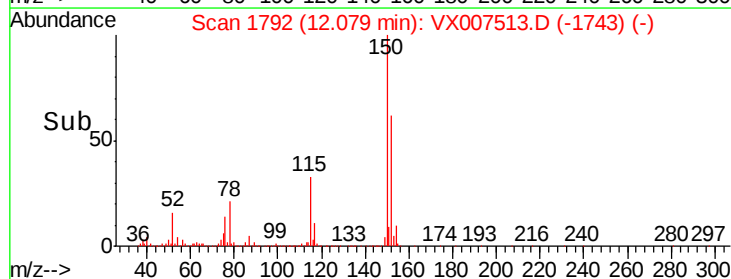
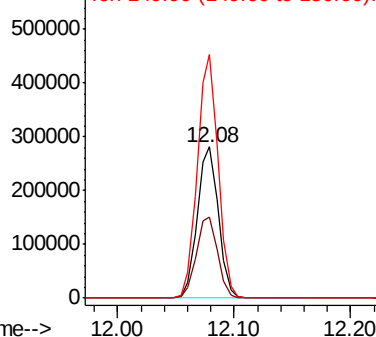


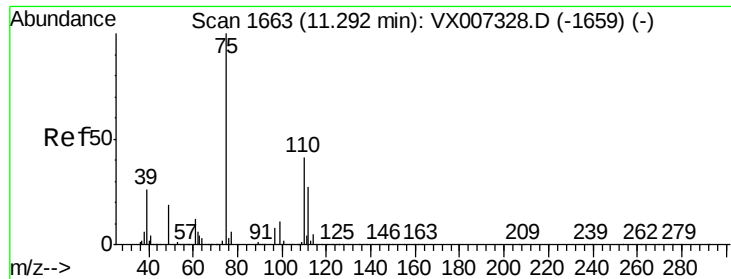
Abundance

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: 23.011 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Instrument :

MSVOA\_X

ClientSampleId :

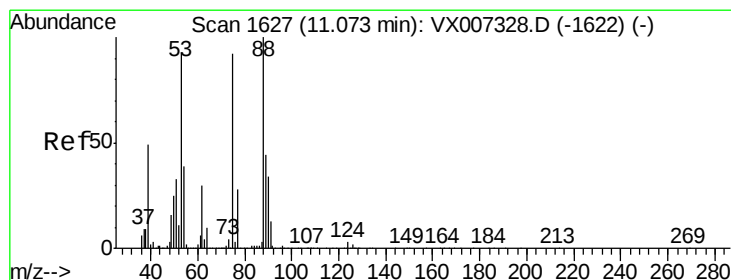
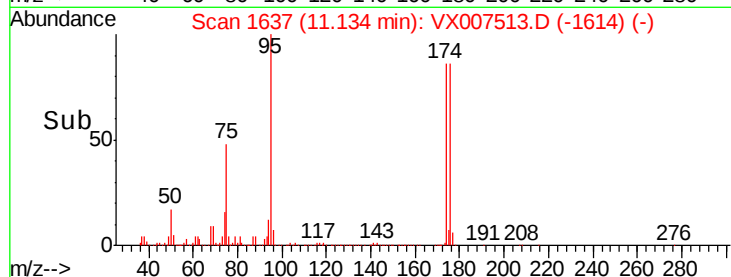
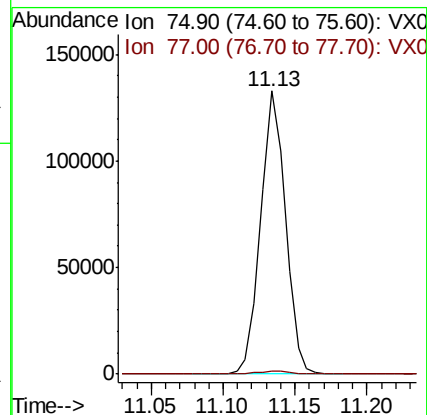
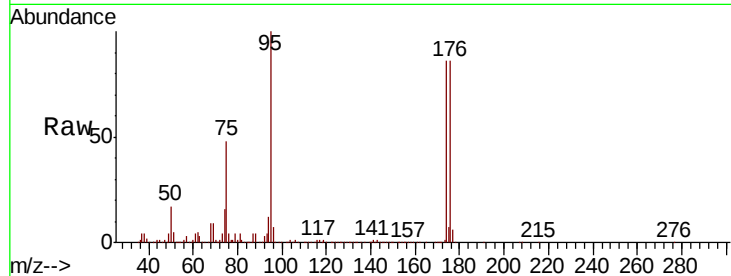
VX0214WBL01

Tgt Ion: 75 Resp: 157837

Ion Ratio Lower Upper

75 100

77 1.6 23.0 69.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.338 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007513.D

Acq: 13 Feb 2019 11:38

Tgt Ion: 75 Resp: 157837

Ion Ratio Lower Upper

75 100

53 0.5 81.0 121.6#

89 0.0 41.4 62.0#

