

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\  
 Data File : VX005550.D  
 Acq On : 24 Oct 2018 19:12  
 Operator : JC/MD  
 Sample : J5655-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S37-0007

Quant Time: Oct 25 04:55:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 24 13:13:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 206139   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 303409   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 275674   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 128610   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 130520   | 51.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.74% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 103614   | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.86% |          |
| 50) Toluene-d8              | 8.71  | 98   | 365906   | 49.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.14%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 119560   | 42.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.78%  |          |

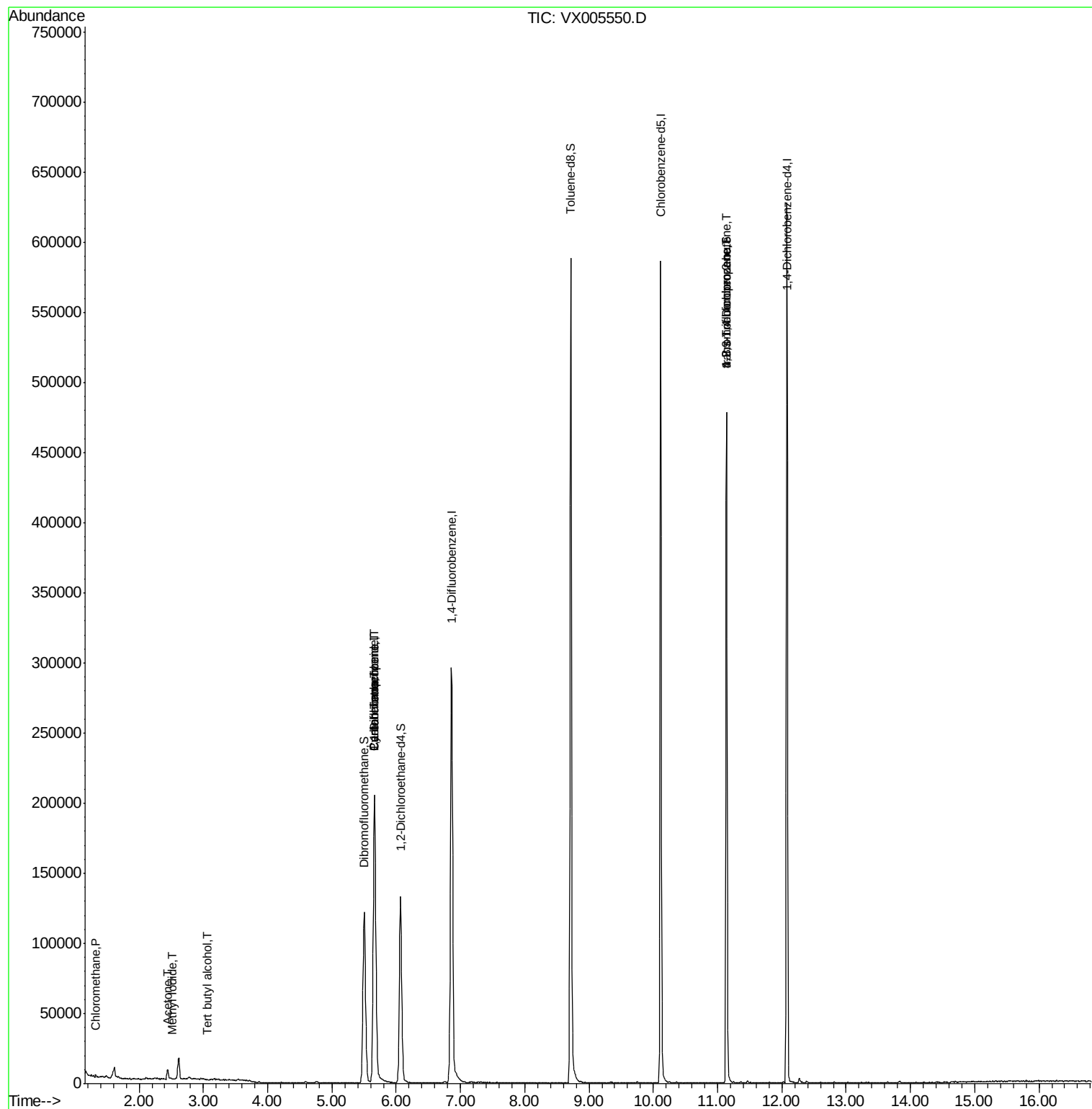
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1459     | 0.563     | ug/l   | 99     |
| 10) Methyl Iodide              | 2.52  | 142  | 38       | 2.742     | ug/l # | 41     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 150      | 0.222     | ug/l # | 72     |
| 16) Acetone                    | 2.45  | 43   | 7218     | 5.428     | ug/l   | 99     |
| 18) Methyl Acetate             | 2.78  | 43   | 2190     | Below Cal |        | 99     |
| 31) Cyclohexane                | 5.66  | 56   | 4285     | 1.263     | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14956    | 5.079     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 19480    | 6.281     | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 60886    | 23.242    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 60886    | 73.010    | ug/l # | 10     |

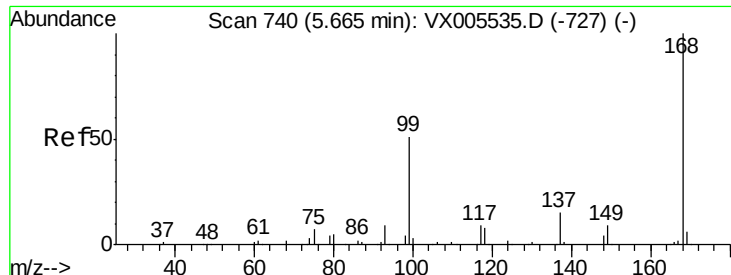
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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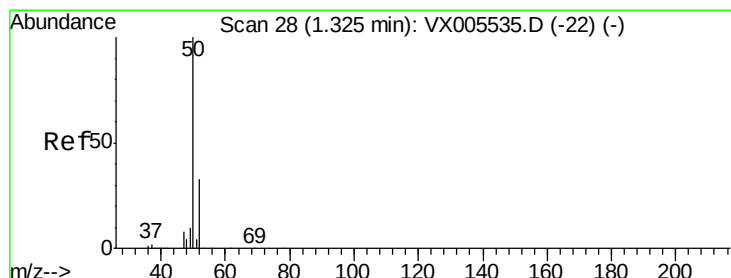
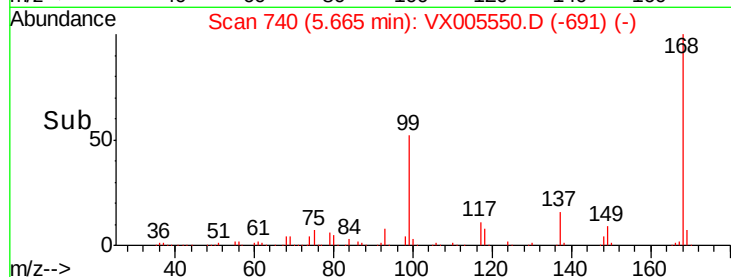
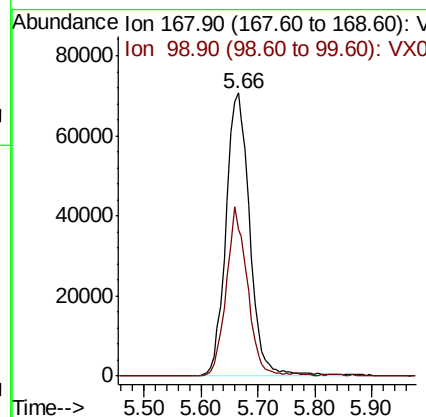
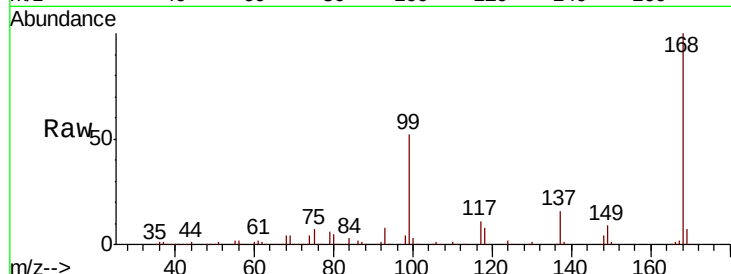




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.66 min Scan# 740  
Delta R.T. -0.00 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

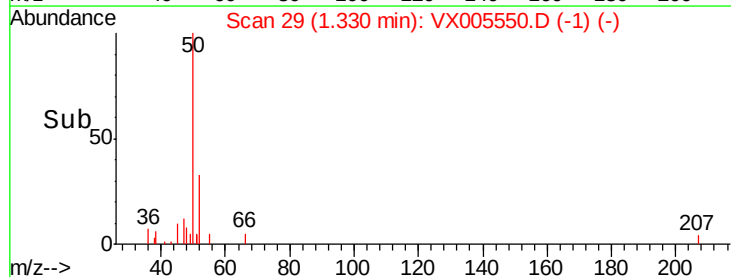
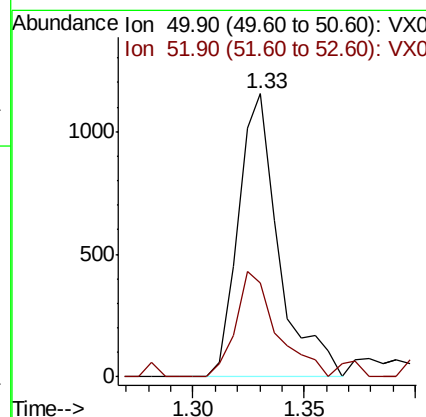
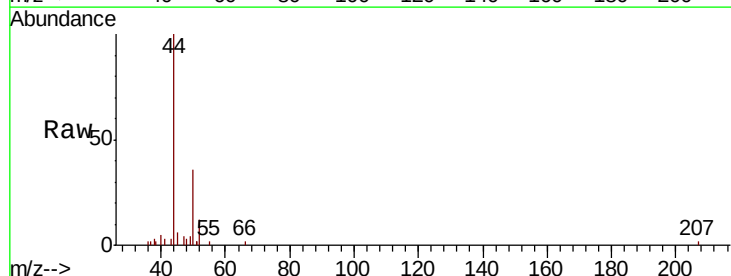
Instrument :  
MSVOA\_X  
ClientSampleId :  
S37-0007

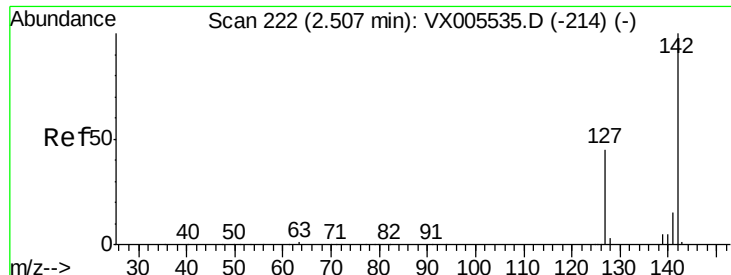
Tot Ion:168 Resp: 206139  
Ion Ratio Lower Upper  
168 100  
99 51.7 39.9 59.9



#3  
Chloromethane  
Concen: 0.563 ug/l  
RT: 1.33 min Scan# 29  
Delta R.T. 0.01 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

Tgt Ion: 50 Resp: 1459  
Ion Ratio Lower Upper  
50 100  
52 33.2 26.2 39.2

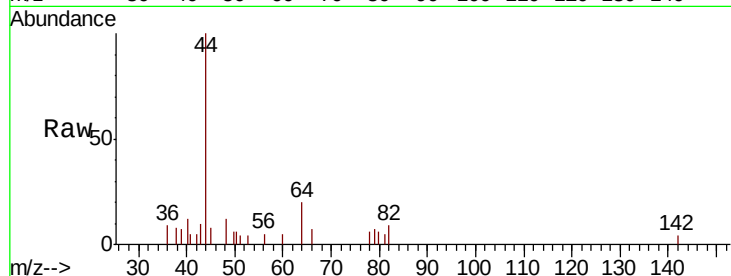




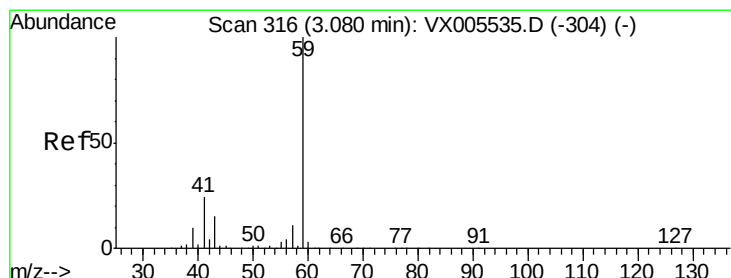
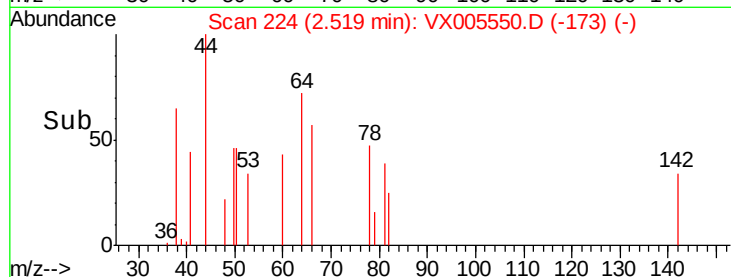
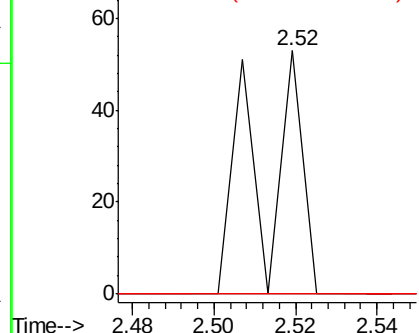
#10  
Methvl Iodide  
Concen: 2.742 ug/l  
RT: 2.52 min Scan# 224  
Delta R.T. 0.01 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
S37-0007

Tot Ion:142 Resp: 38  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.8 50.6#  
141 0.0 11.4 17.0#

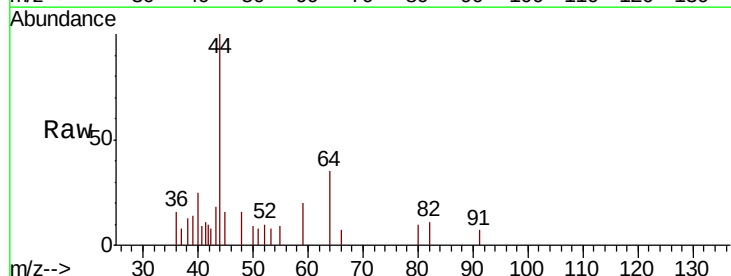


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

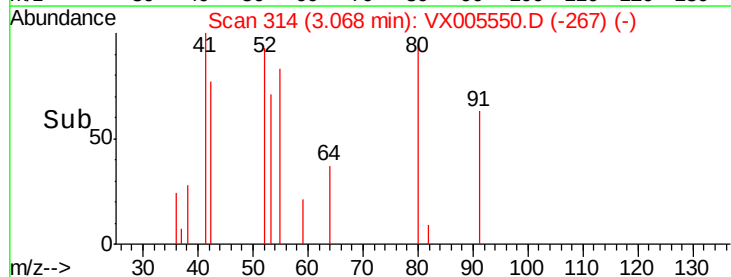
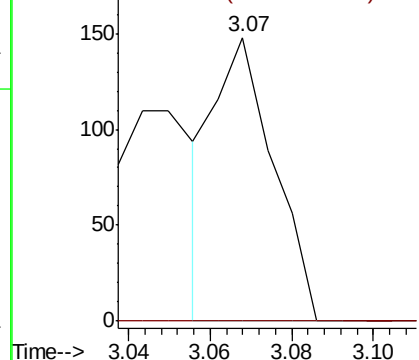


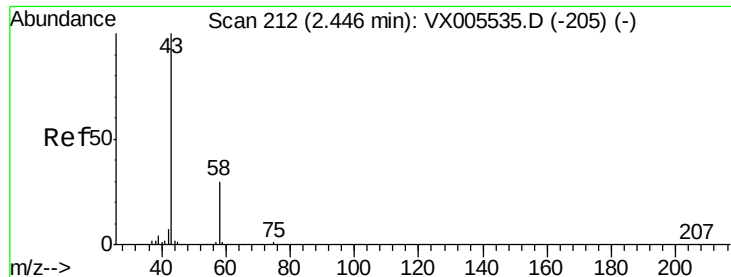
#11  
Tert butyl alcohol  
Concen: 0.222 ug/l  
RT: 3.07 min Scan# 314  
Delta R.T. -0.01 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

Tgt Ion: 59 Resp: 150  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 5.428 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005550.D

Acq: 24 Oct 2018 19:12

Instrument :

MSVOA\_X

ClientSampleId :

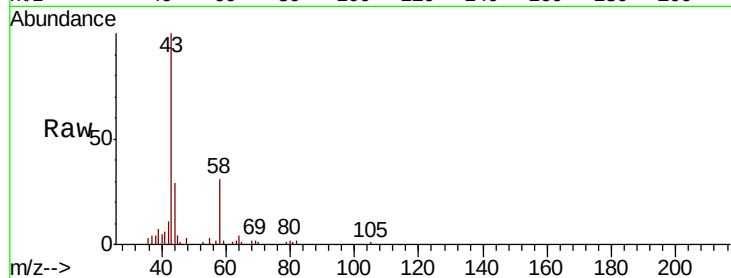
S37-0007

Tot Ion: 43 Resp: 7218

Ion Ratio Lower Upper

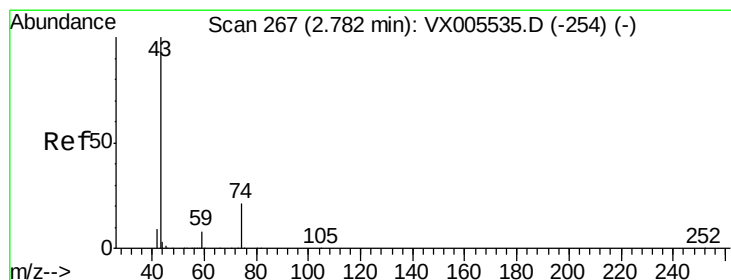
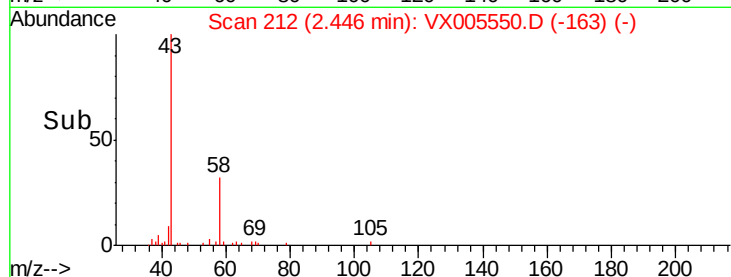
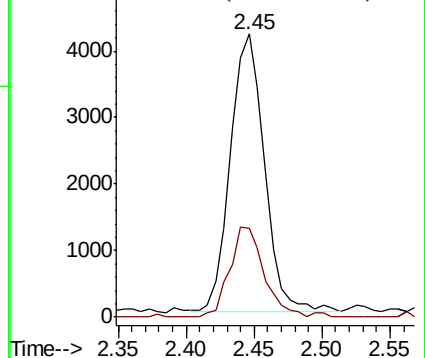
43 100

58 32.0 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005550.D

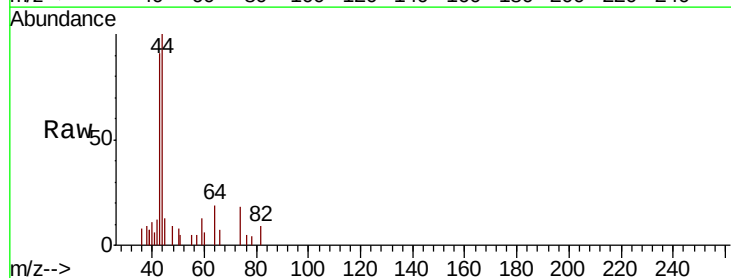
Acq: 24 Oct 2018 19:12

Tgt Ion: 43 Resp: 2190

Ion Ratio Lower Upper

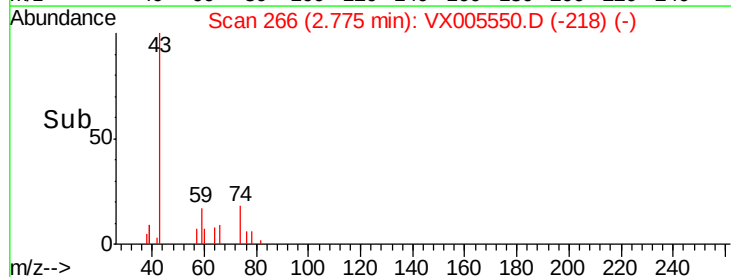
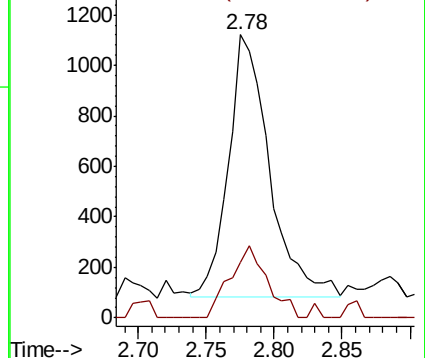
43 100

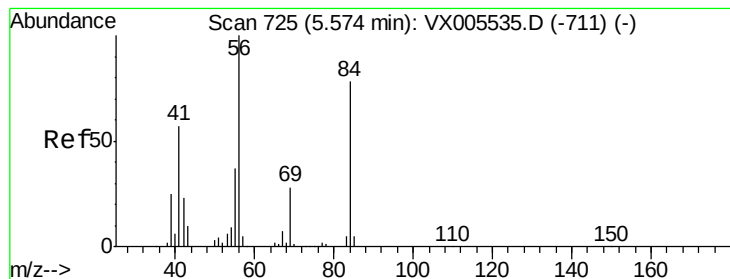
74 24.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#31

Cyclohexane

Concen: 1.263 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX005550.D

Acq: 24 Oct 2018 19:12

Instrument :

MSVOA\_X

ClientSampleId :

S37-0007

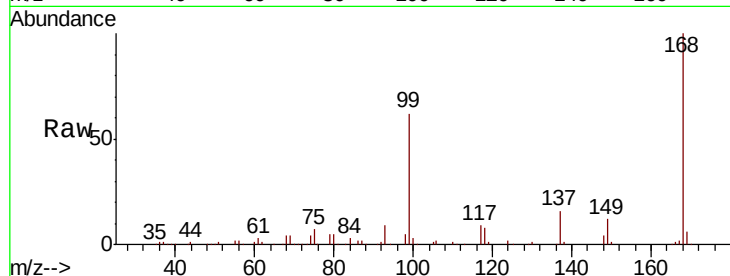
Tot Ion: 56 Resp: 4285

Ion Ratio Lower Upper

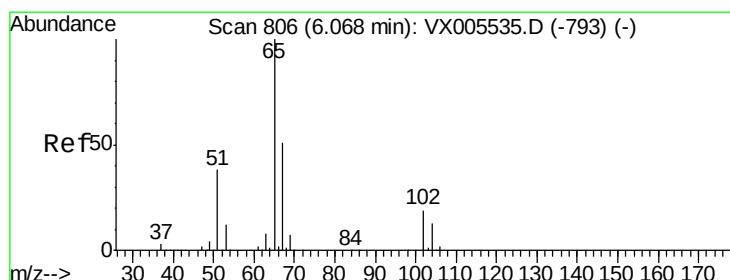
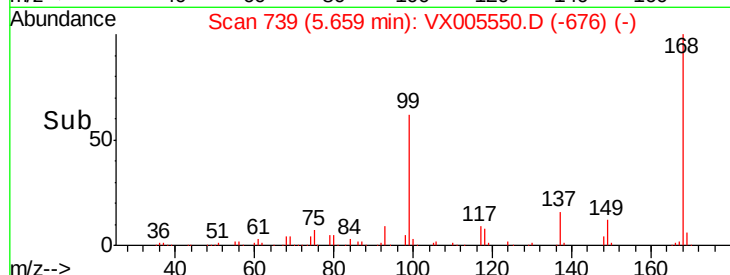
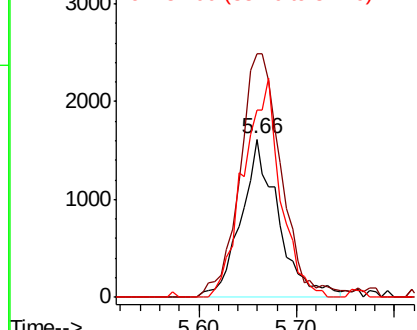
56 100

69 154.2 25.4 38.2#

84 118.5 71.4 107.2#



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: 51.869 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005550.D

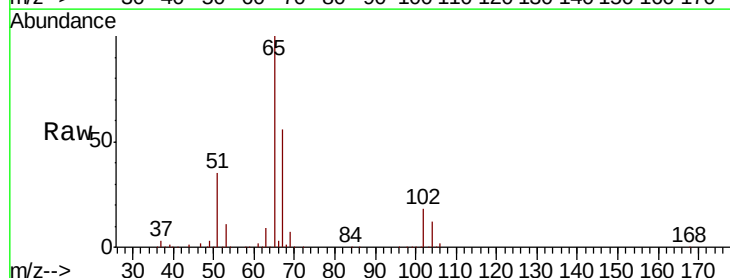
Acq: 24 Oct 2018 19:12

Tgt Ion: 65 Resp: 130520

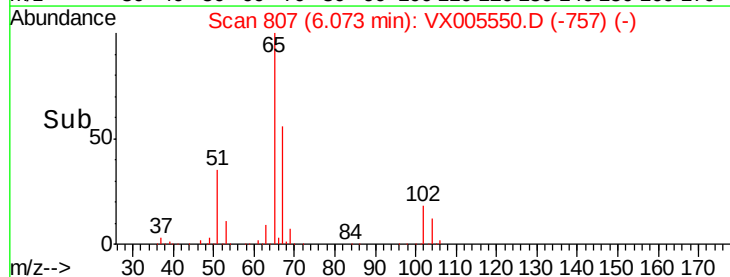
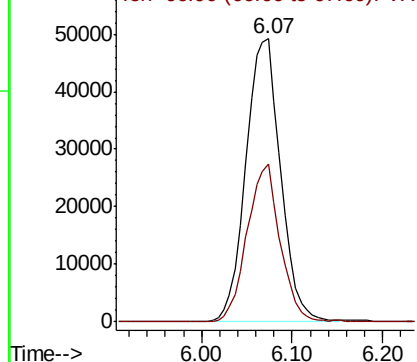
Ion Ratio Lower Upper

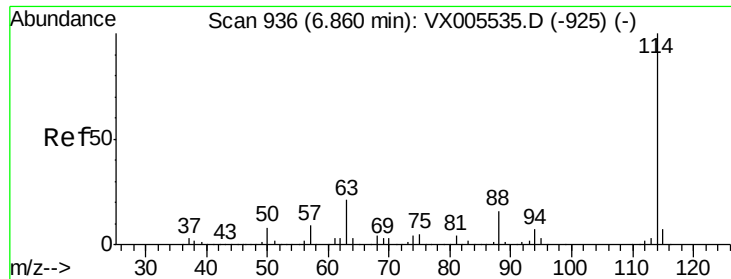
65 100

67 53.2 0.0 106.8



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

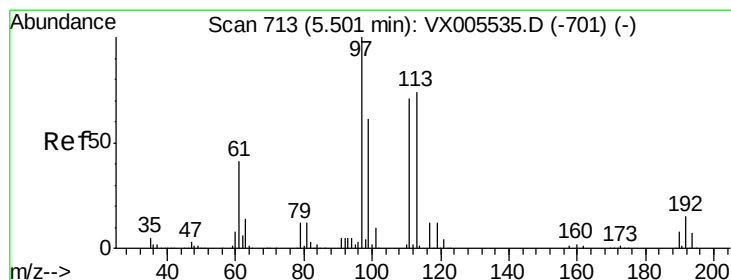
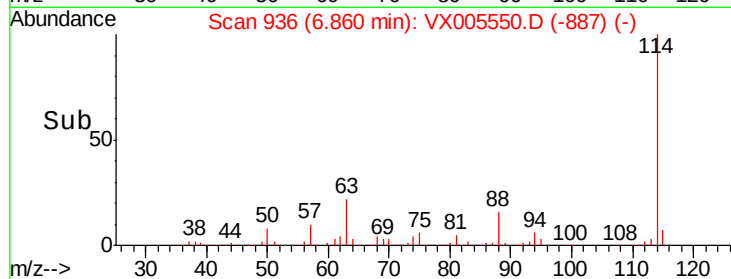
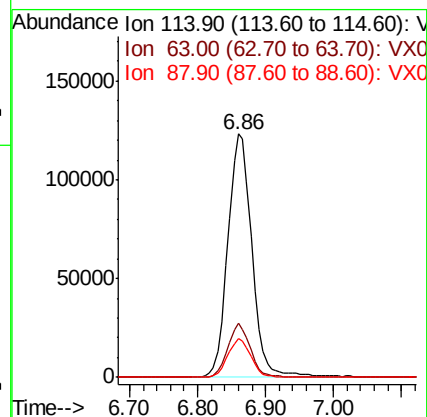
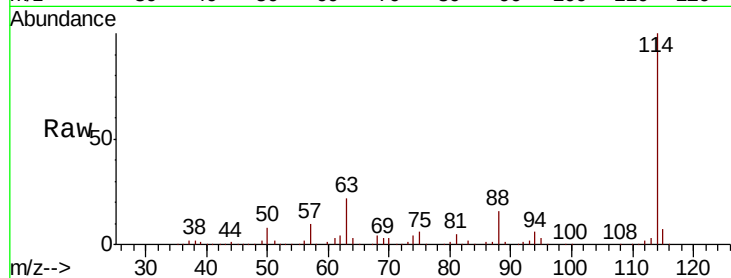




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX005550.D  
 Acq: 24 Oct 2018 19:12

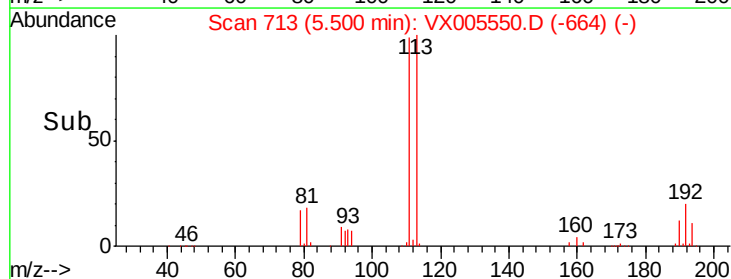
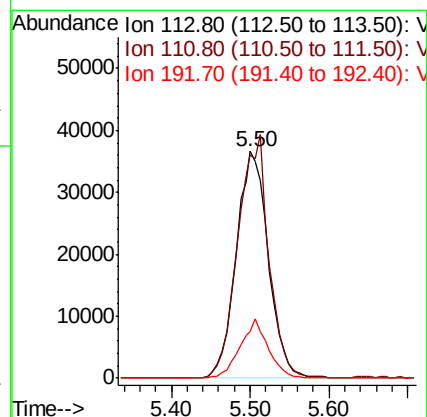
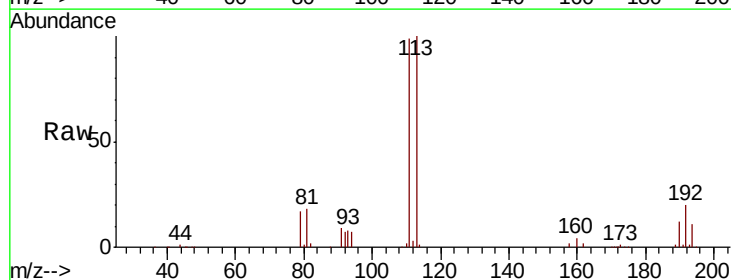
Instrument :  
 MSVOA\_X  
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 S37-0007

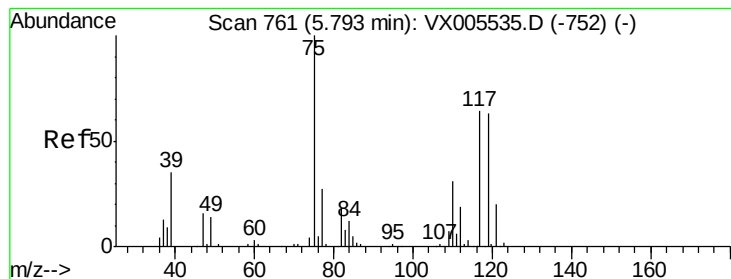
Tot Ion:114 Resp: 303409  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 0.0 39.0  
 88 15.8 0.0 30.4



#35  
 Dibromofluoromethane  
 Concen: 50.434 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX005550.D  
 Acq: 24 Oct 2018 19:12

Tgt Ion:113 Resp: 103614  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 82.4 123.6  
 192 22.7 19.4 29.2





#36

1,1-Dichloropropene

Concen: 5.079 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005550.D

Acq: 24 Oct 2018 19:12

Instrument :

MSVOA\_X

ClientSampleId :

S37-0007

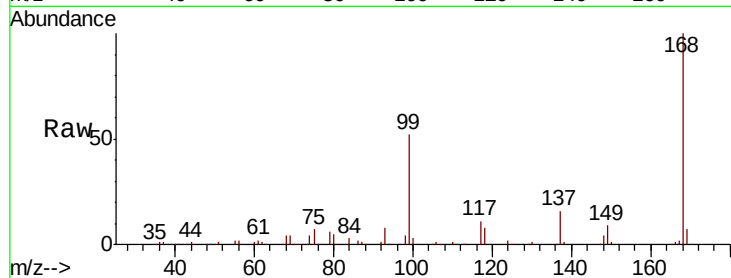
Tot Ion: 75 Resp: 14956

Ion Ratio Lower Upper

75 100

110 9.3 18.0 54.0#

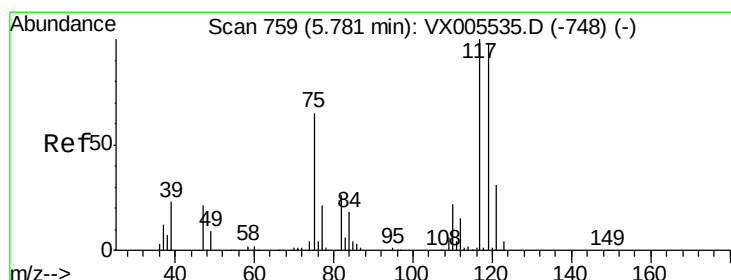
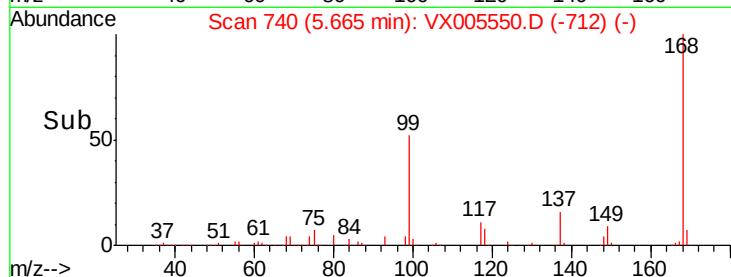
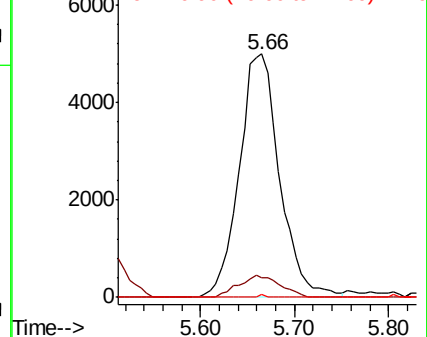
77 0.2 24.6 36.8#



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: 6.281 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005550.D

Acq: 24 Oct 2018 19:12

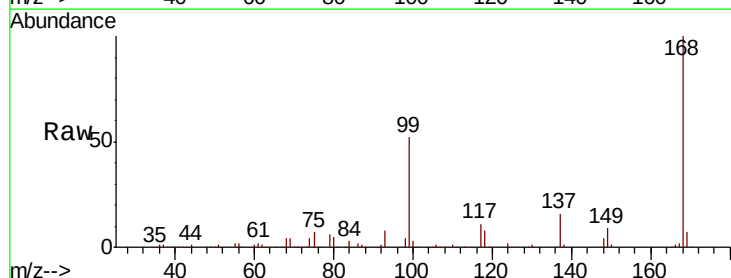
Tgt Ion: 117 Resp: 19480

Ion Ratio Lower Upper

117 100

119 4.4 78.8 118.2#

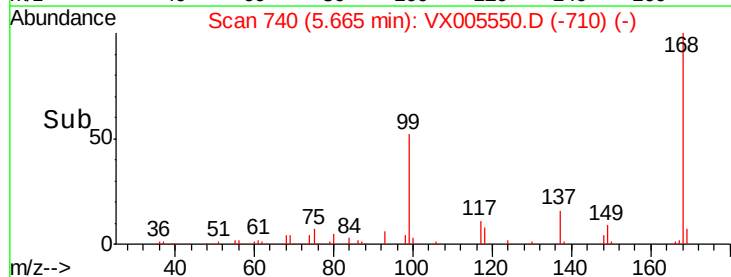
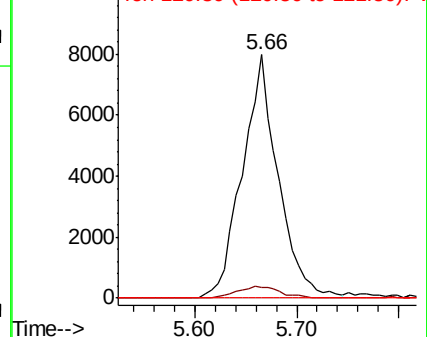
121 0.0 24.9 37.3#



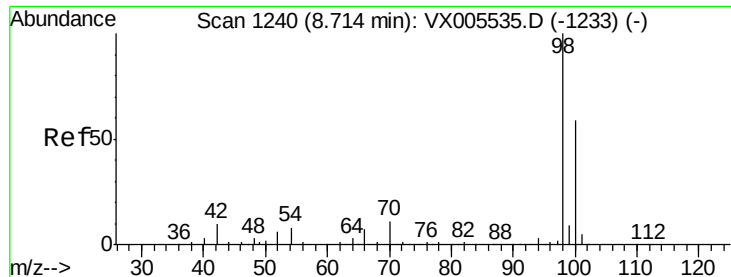
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



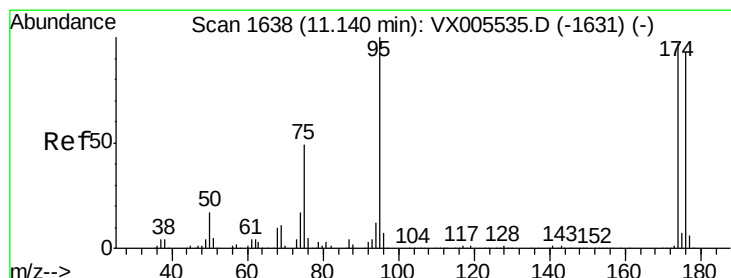
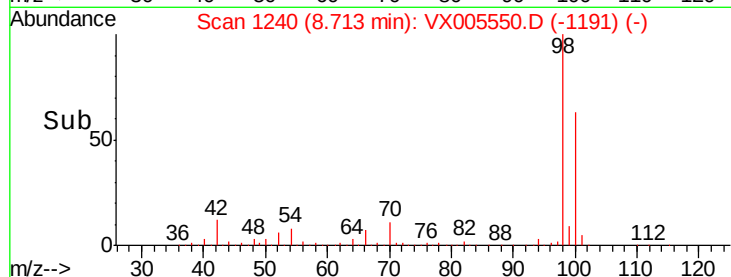
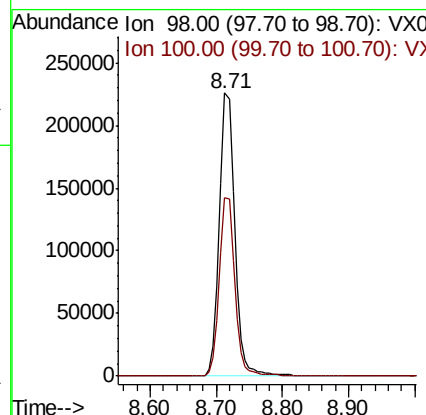
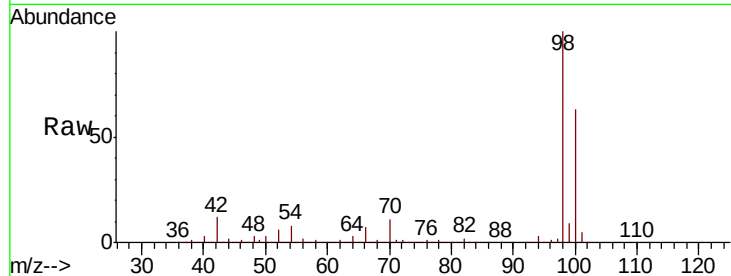




#50  
Toluene-d8  
Concen: 49.567 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

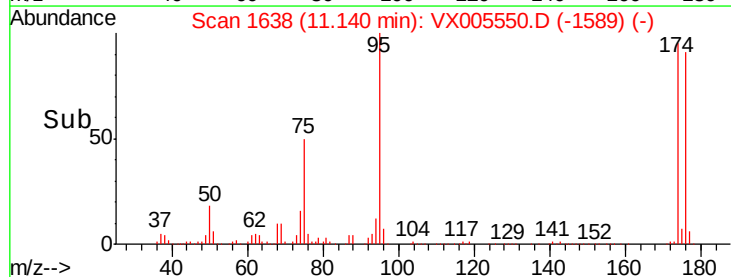
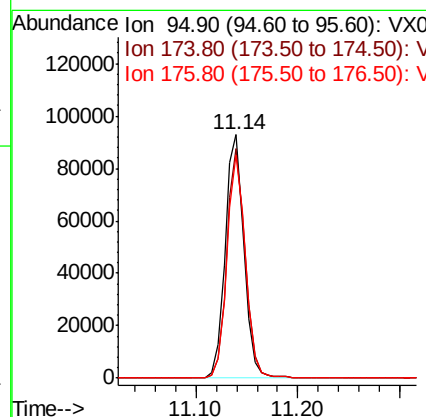
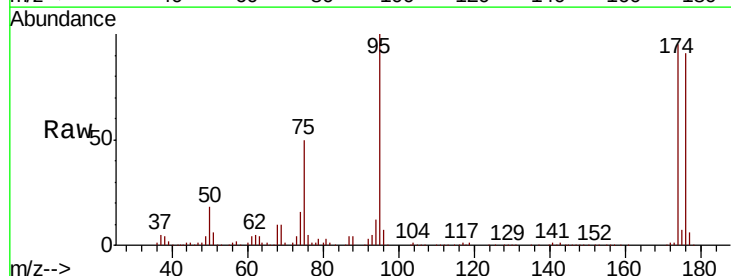
Instrument :  
MSVOA\_X  
ClientSampled :  
S37-0007

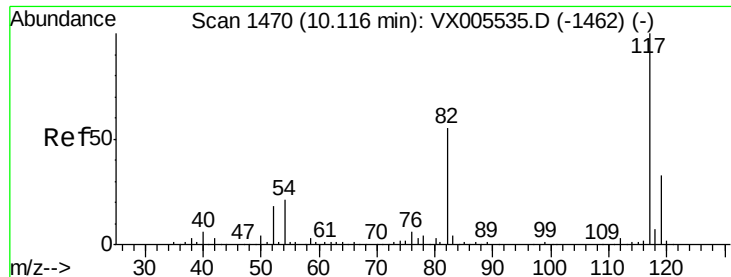
Tot Ion: 98 Resp: 365906  
Ion Ratio Lower Upper  
98 100  
100 63.0 52.9 79.3



#62  
4-Bromofluorobenzene  
Concen: 42.887 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

Tgt Ion: 95 Resp: 119560  
Ion Ratio Lower Upper  
95 100  
174 92.2 0.0 185.2  
176 90.0 0.0 178.6

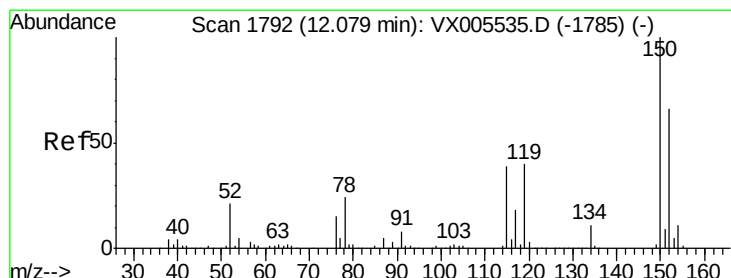
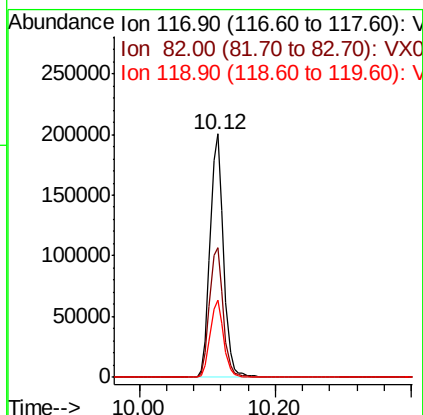
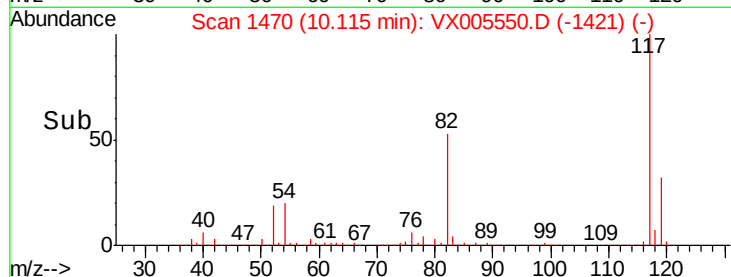
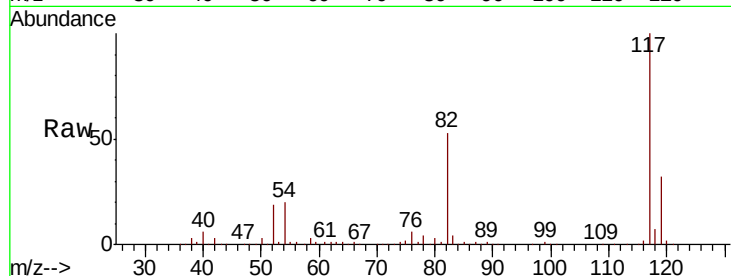




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

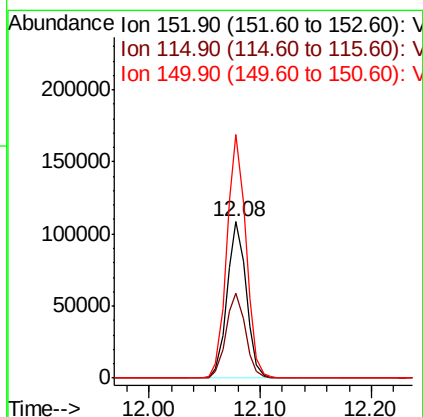
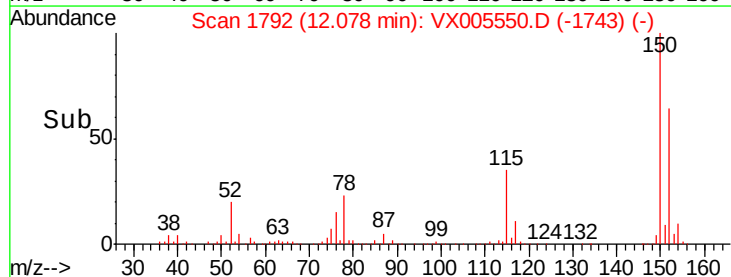
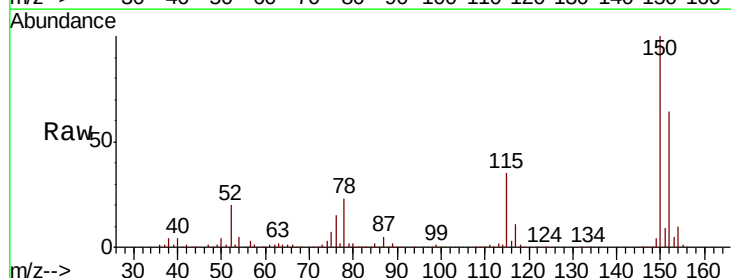
Instrument :  
MSVOA\_X  
ClientSampled :  
S37-0007

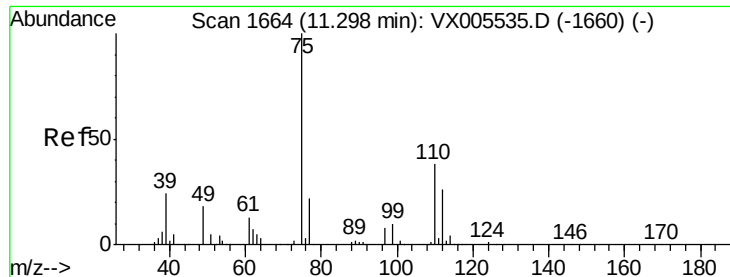
Tot Ion:117 Resp: 275674  
Ion Ratio Lower Upper  
117 100  
82 53.3 47.8 71.6  
119 31.9 29.3 43.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005550.D  
Acq: 24 Oct 2018 19:12

Tgt Ion:152 Resp: 128610  
Ion Ratio Lower Upper  
152 100  
115 55.4 39.0 117.0  
150 155.7 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 23.242 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005550.D

Acq: 24 Oct 2018 19:12

Instrument :

MSVOA\_X

ClientSampled :

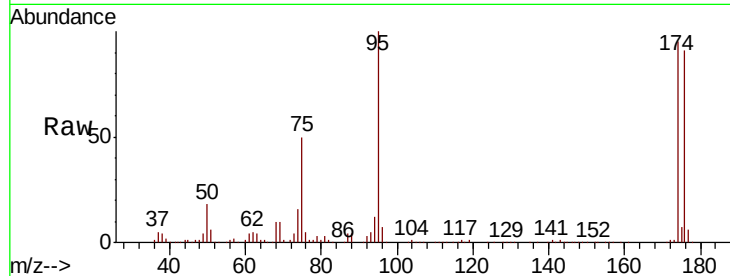
S37-0007

Tot Ion: 75 Resp: 60886

Ion Ratio Lower Upper

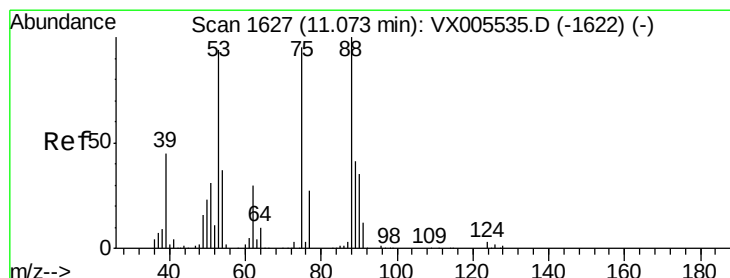
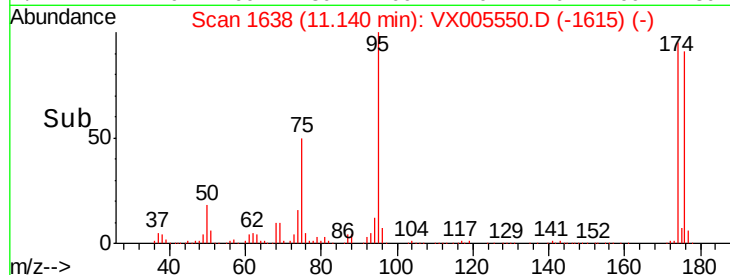
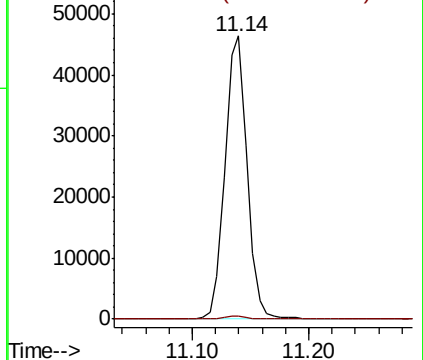
75 100

77 1.2 20.2 60.6#



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: 73.010 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005550.D

Acq: 24 Oct 2018 19:12

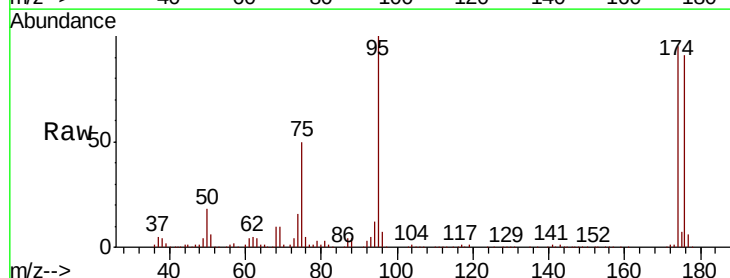
Tgt Ion: 75 Resp: 60886

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

