

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX042018\  
 Data File : VX001043.D  
 Acq On : 21 Apr 2018 06:41  
 Operator : JC/MD  
 Sample : J2377-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF014RW032-180412

Quant Time: Apr 23 00:52:22 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 20 05:03:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 237527   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 331532   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 314322   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 204989   | 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   | 153864   | 51.10 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.20% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 118009   | 46.68 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.36%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 468489   | 50.12 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.24% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 183939   | 46.89 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.78%  |          |

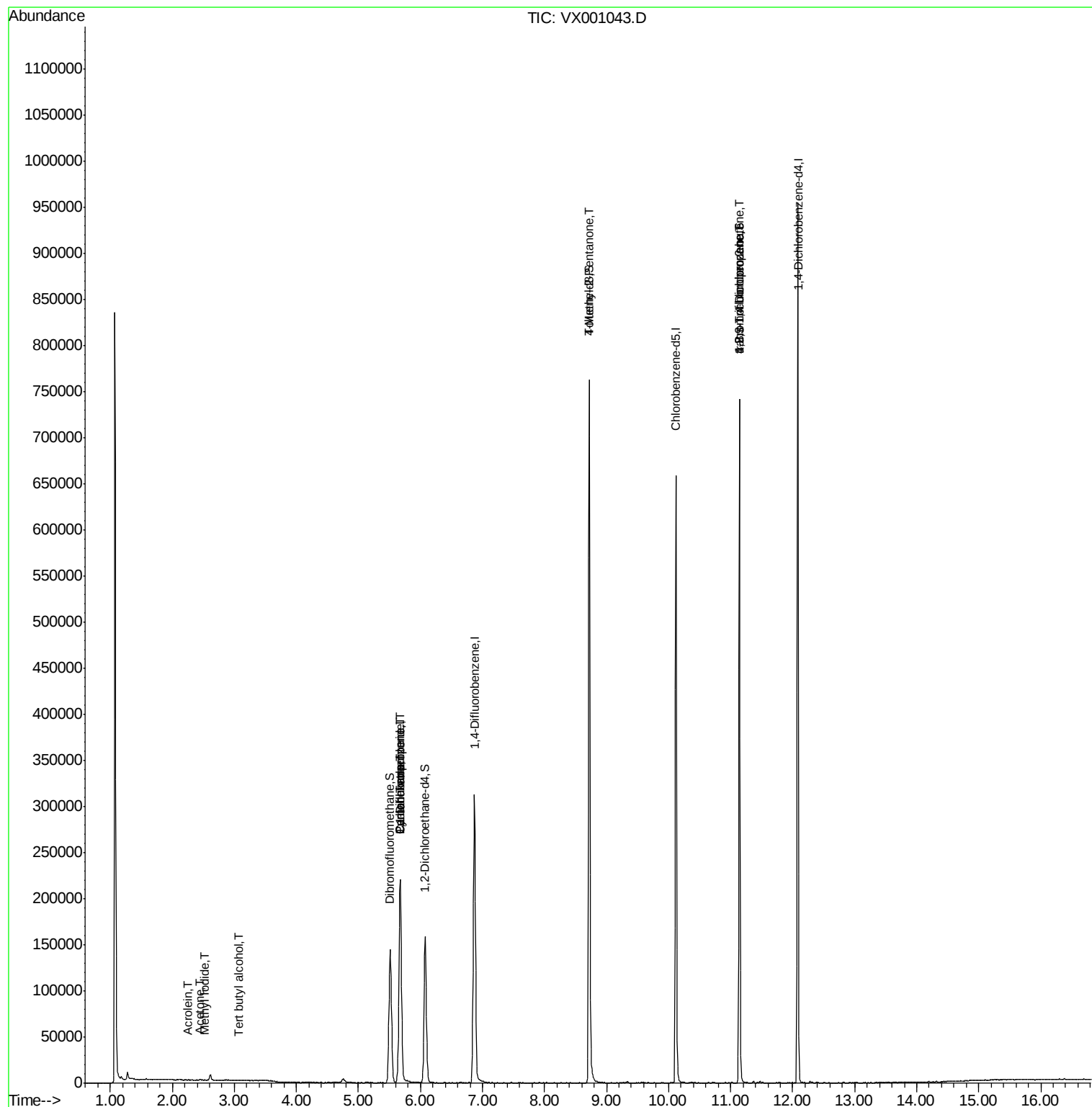
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 131      | Below Cal | #      | 59     |
| 10) Methyl Iodide              | 2.52  | 142  | 21       | 7.61      | ug/l # | 41     |
| 11) Tert butyl alcohol         | 3.06  | 59   | 174      | 0.38      | ug/l # | 43     |
| 13) Acrolein                   | 2.25  | 56   | 20       | 11.07     | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43   | 1041     | 0.92      | ug/l # | 89     |
| 20) Methylene Chloride         | 2.87  | 84   | 41       | Below Cal | #      | 44     |
| 31) Cyclohexane                | 5.67  | 56   | 4230     | 1.00      | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 14519    | 3.73      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 20637    | 5.23      | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 8.72  | 43   | 2459     | 0.66      | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 93040    | 26.16     | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 93040    | 78.31     | ug/l # | 8      |

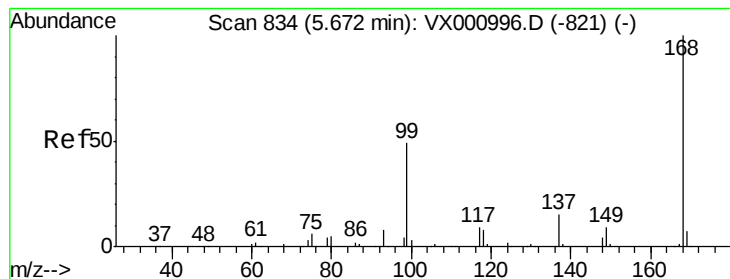
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX042018\  
Data File : VX001043.D  
Acq On : 21 Apr 2018 06:41  
Operator : JC/MD  
Sample : J2377-03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
LF014RW032-180412

Quant Time: Apr 23 00:52:22 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 20 05:03:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

Instrument :

MSVOA\_X

ClientSampleId :

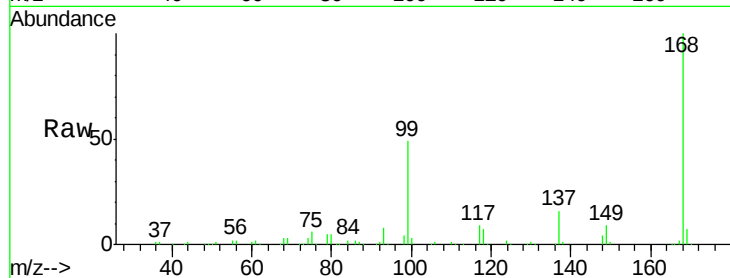
LF014RW032-180412

Tgt Ion:168 Resp: 237527

Ion Ratio Lower Upper

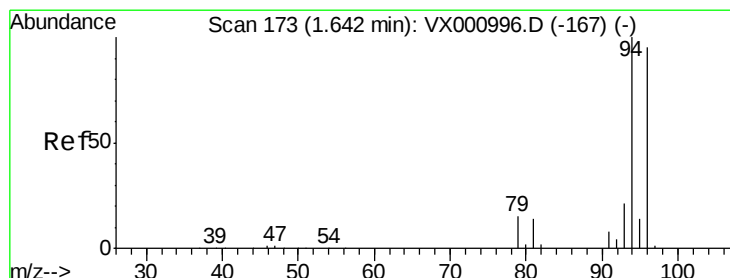
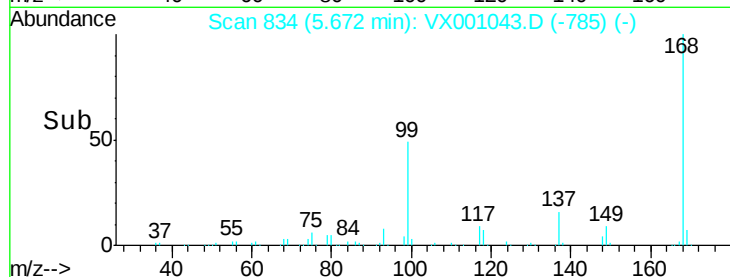
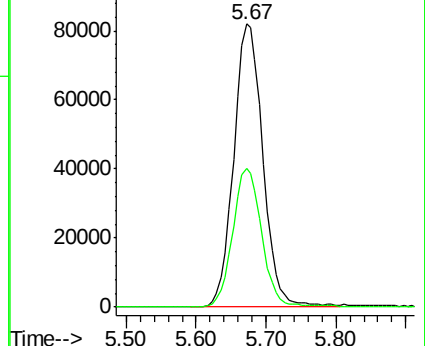
168 100

99 49.0 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001043.D

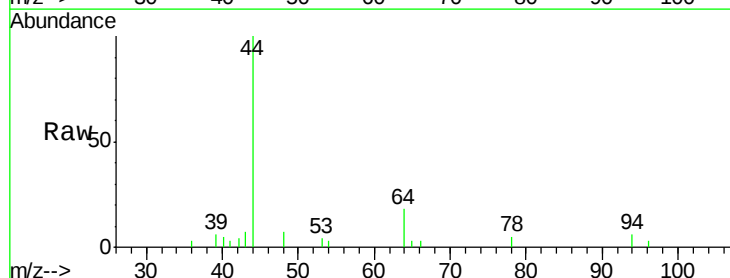
Acq: 21 Apr 2018 06:41

Tgt Ion: 94 Resp: 131

Ion Ratio Lower Upper

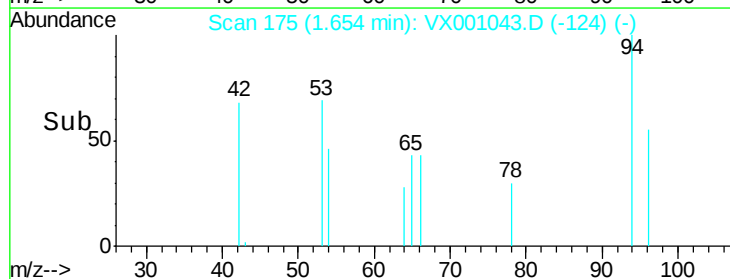
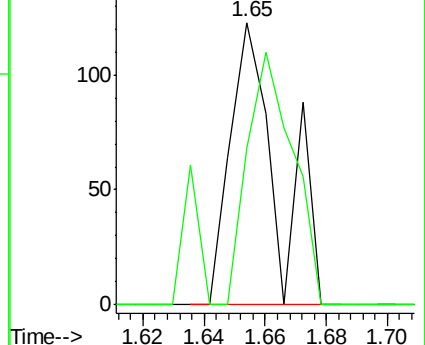
94 100

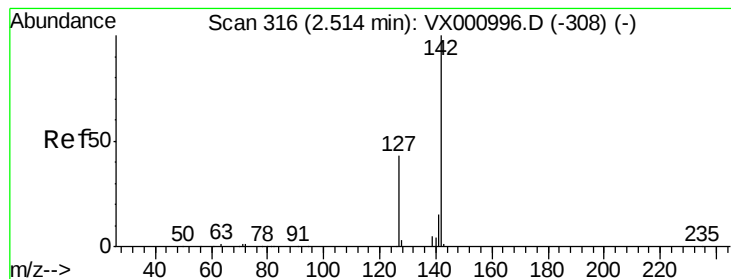
96 55.3 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 7.61 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

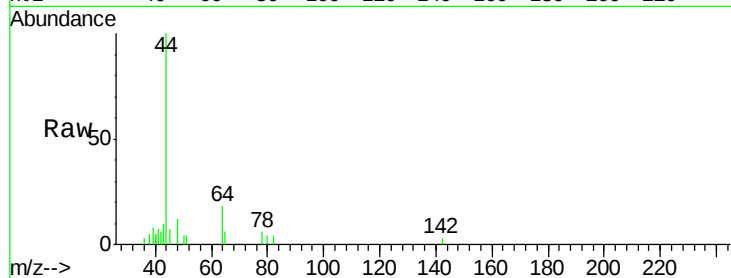
Instrument :

MSVOA\_X

ClientSampleId :

LF014RW032-180412

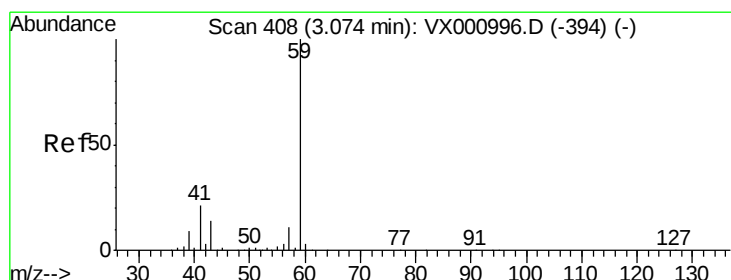
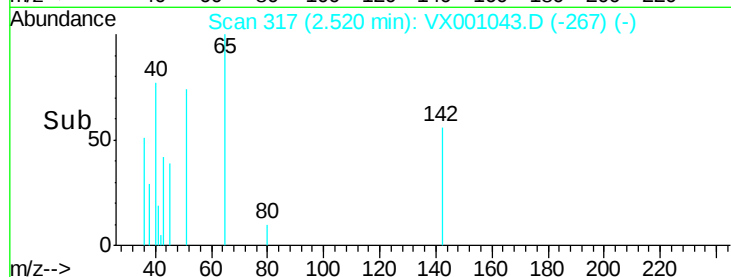
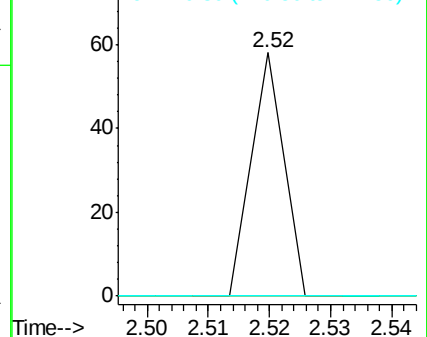
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 21    |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 0.0   | 34.0  | 51.0# |
| 141      | 0.0   | 11.4  | 17.2# |



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: 0.38 ug/l

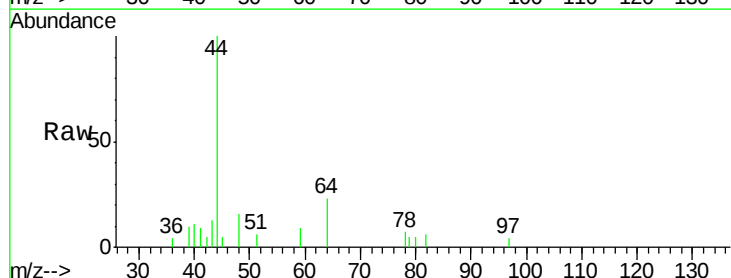
RT: 3.06 min Scan# 406

Delta R.T. -0.01 min

Lab File: VX001043.D

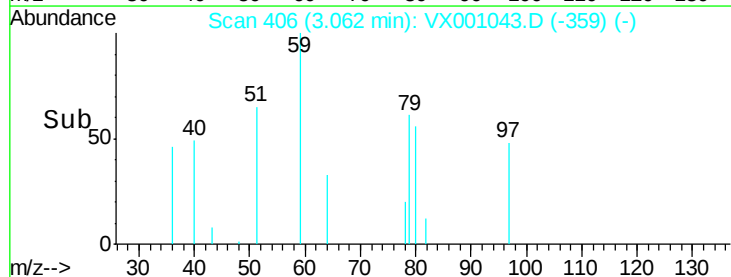
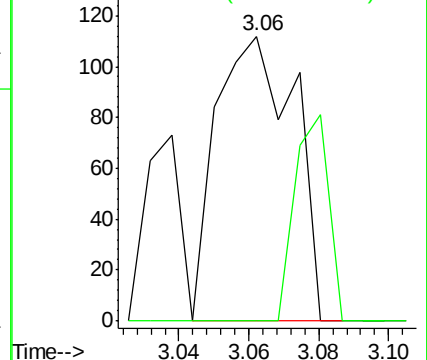
Acq: 21 Apr 2018 06:41

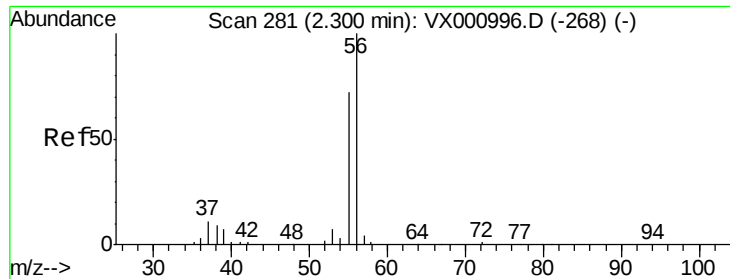
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 174   |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 31.6  | 8.3   | 12.5# |



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 11.07 ug/l

RT: 2.25 min Scan# 273

Delta R.T. -0.05 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

Instrument :

MSVOA\_X

ClientSampleId :

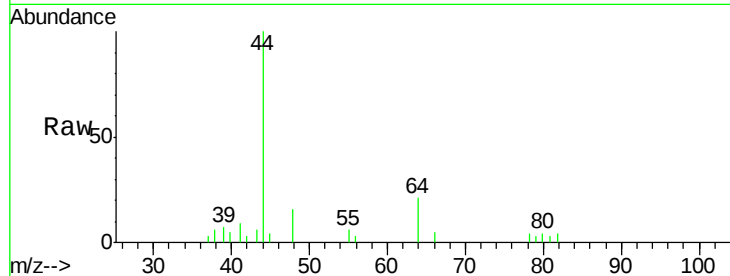
LF014RW032-180412

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

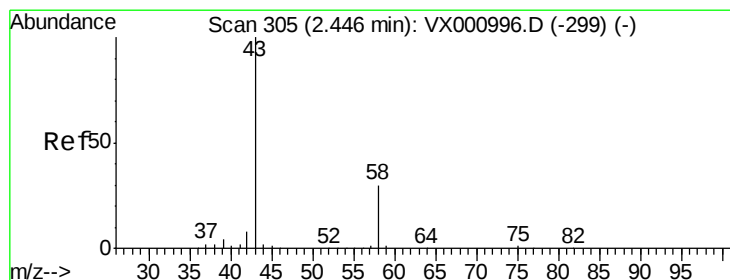
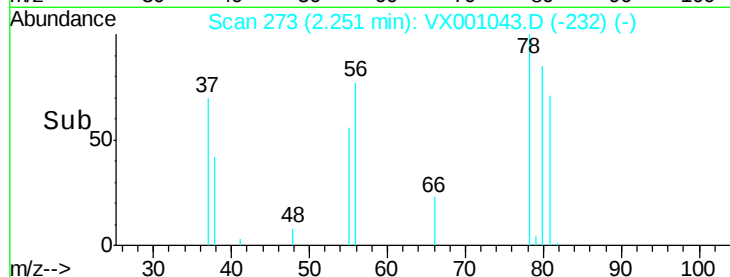
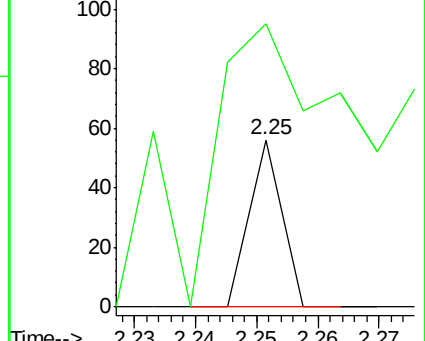
56 100

55 780.0 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.92 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX001043.D

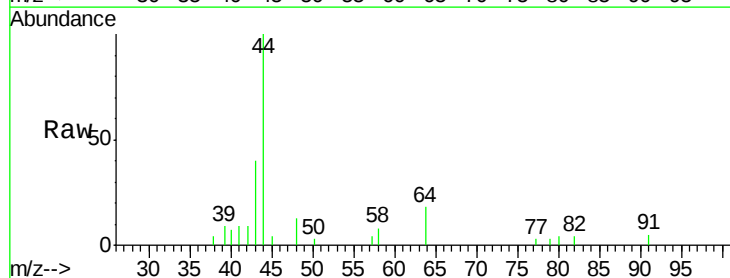
Acq: 21 Apr 2018 06:41

Tgt Ion: 43 Resp: 1041

Ion Ratio Lower Upper

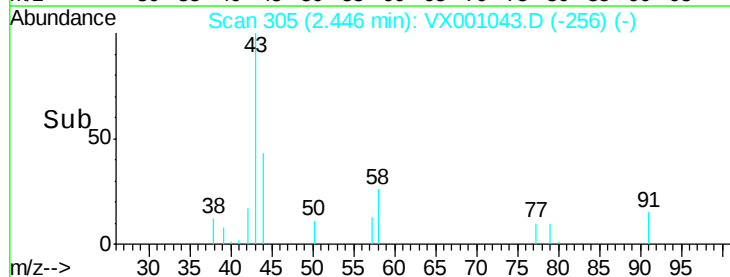
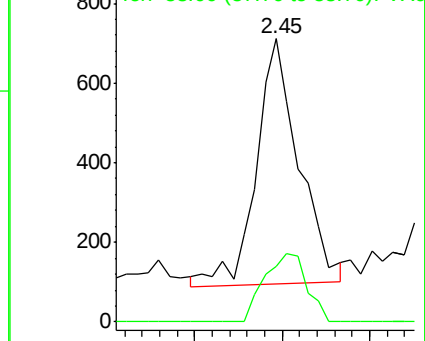
43 100

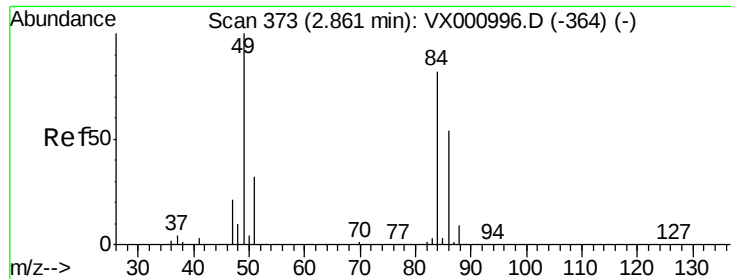
58 23.7 23.7 35.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

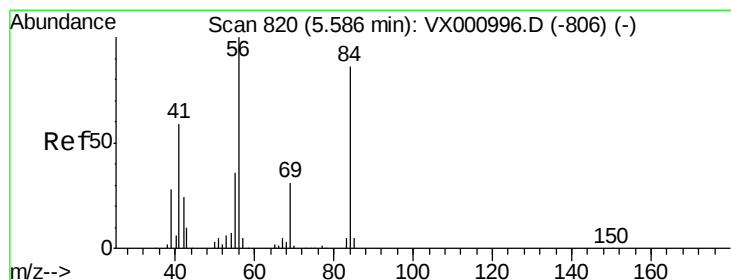
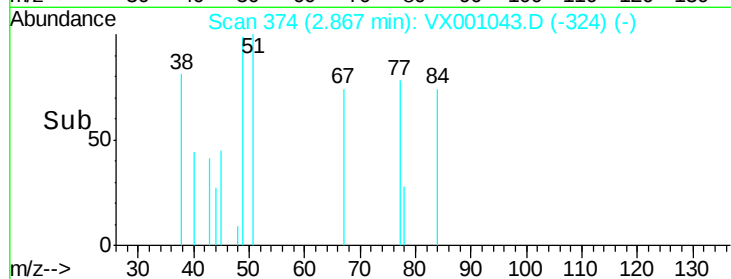
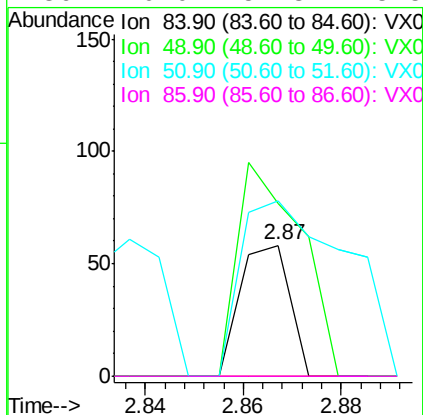
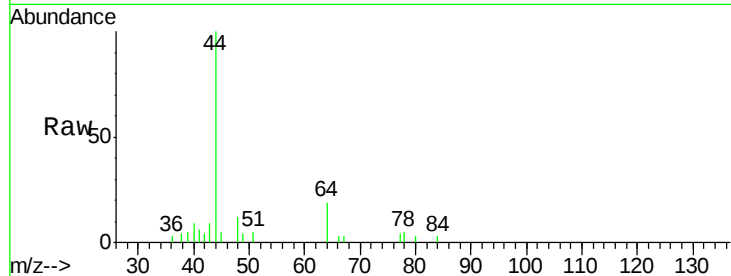




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.87 min Scan# 374  
Delta R.T. 0.01 min  
Lab File: VX001043.D  
Acq: 21 Apr 2018 06:41

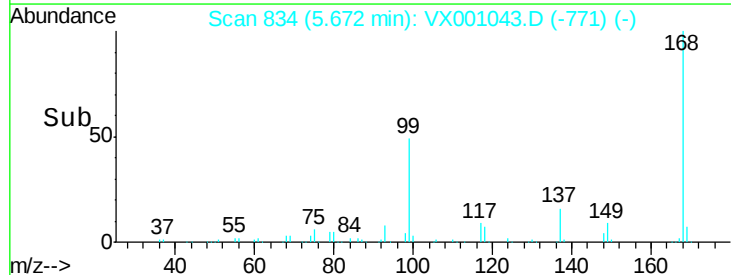
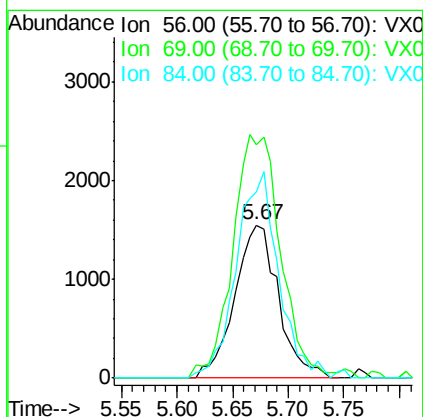
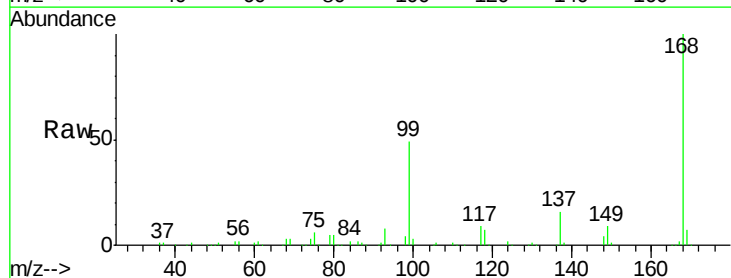
Instrument :  
MSVOA\_X  
ClientSampleId :  
LF014RW032-180412

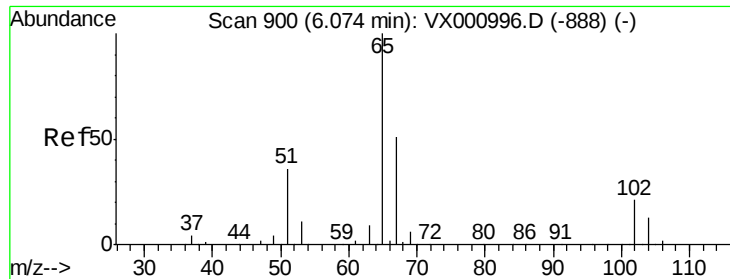
Tgt Ion: 84 Resp: 41  
Ion Ratio Lower Upper  
84 100  
49 132.8 97.1 145.7  
51 134.5 30.8 46.2#  
86 0.0 52.3 78.5#



#31  
Cyclohexane  
Concen: 1.00 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. 0.09 min  
Lab File: VX001043.D  
Acq: 21 Apr 2018 06:41

Tgt Ion: 56 Resp: 4230  
Ion Ratio Lower Upper  
56 100  
69 152.1 24.6 36.8#  
84 121.8 69.0 103.6#

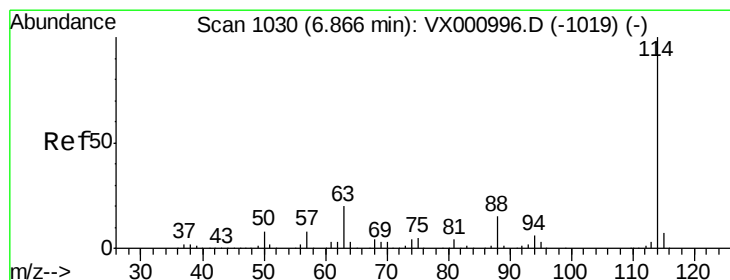
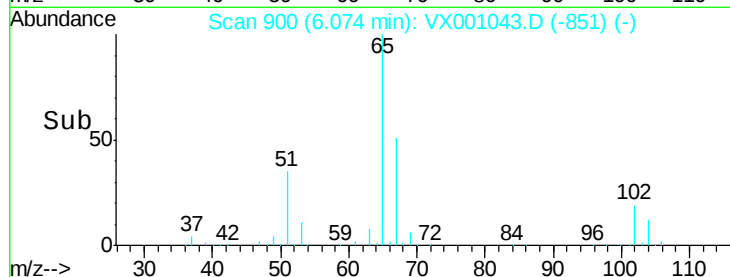
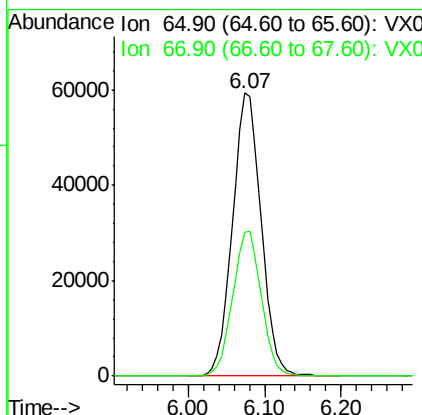
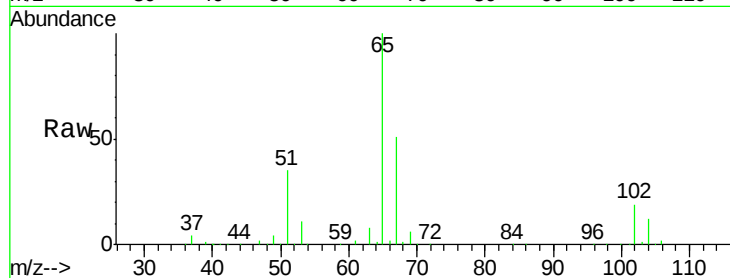




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.10 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX001043.D  
 Acq: 21 Apr 2018 06:41

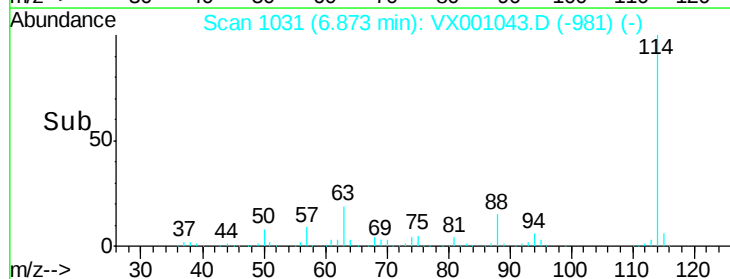
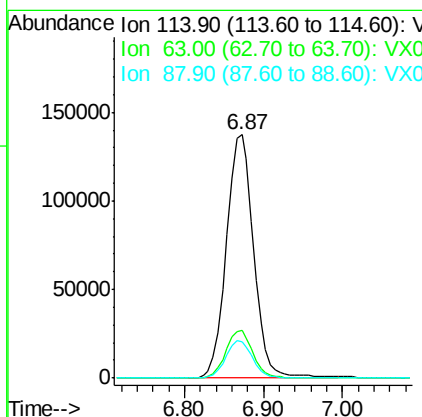
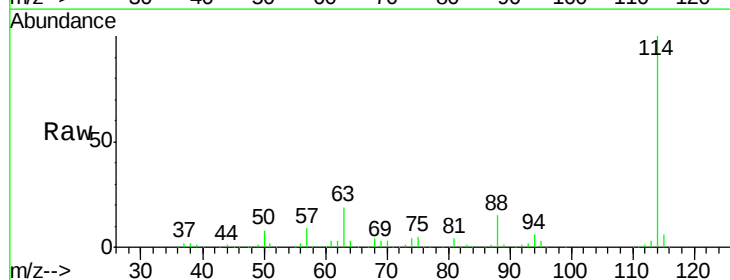
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF014RW032-180412

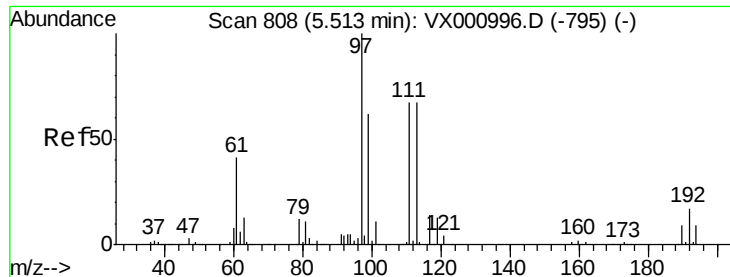
Tgt Ion: 65 Resp: 153864  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX001043.D  
 Acq: 21 Apr 2018 06:41

Tgt Ion: 114 Resp: 331532  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 39.4  
 88 14.9 0.0 29.8





#35

Dibromofluoromethane

Concen: 46.68 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

Instrument :

MSVOA\_X

ClientSampleId :

LF014RW032-180412

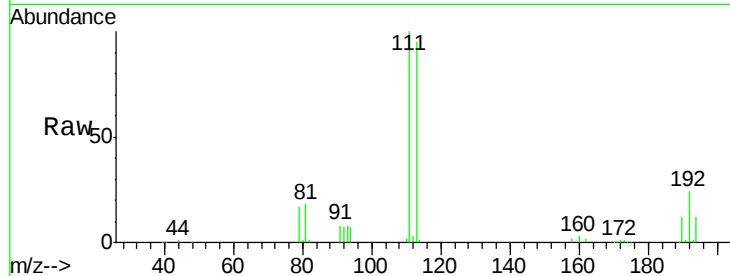
Tgt Ion:113 Resp: 118009

Ion Ratio Lower Upper

113 100

111 103.8 81.4 122.2

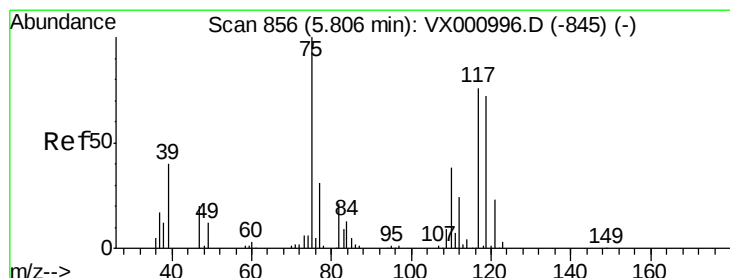
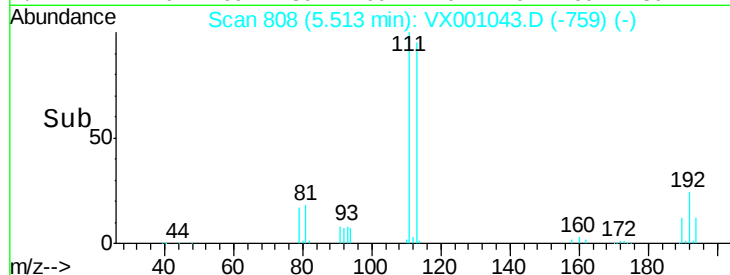
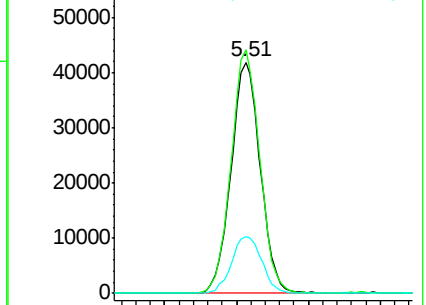
192 25.4 20.4 30.6



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: 3.73 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

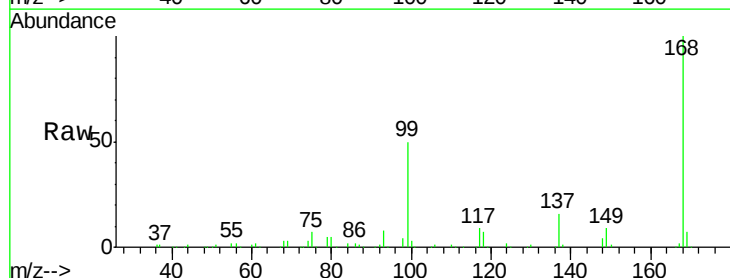
Tgt Ion: 75 Resp: 14519

Ion Ratio Lower Upper

75 100

110 9.8 18.7 56.1#

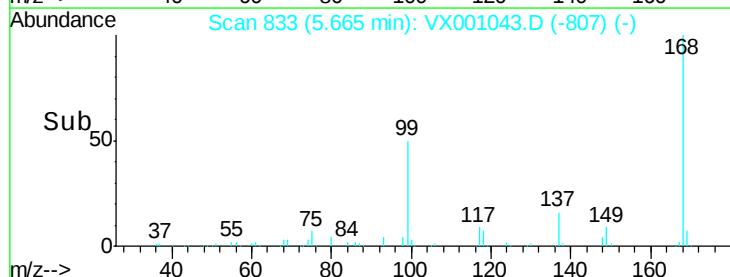
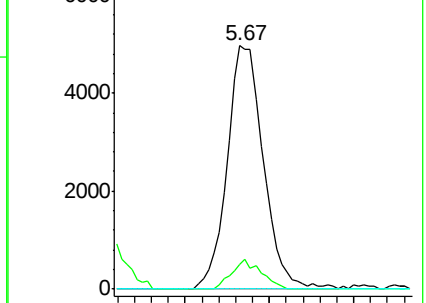
77 0.0 25.0 37.4#

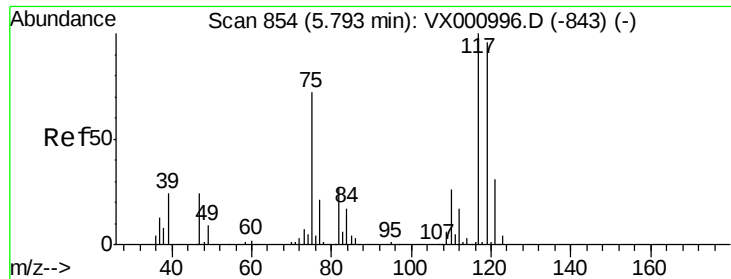


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.23 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

Instrument :

MSVOA\_X

ClientSampleId :

LF014RW032-180412

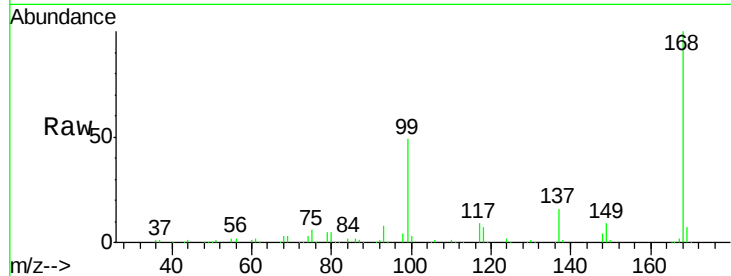
Tgt Ion:117 Resp: 20637

Ion Ratio Lower Upper

117 100

119 4.0 76.5 114.7#

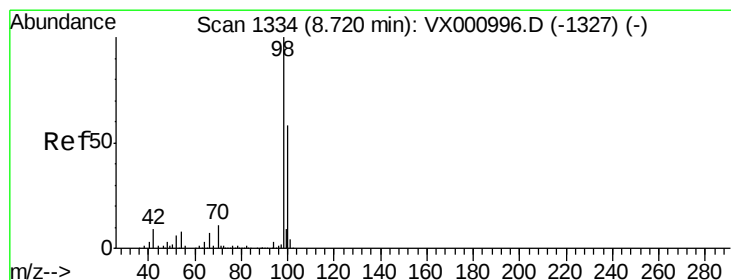
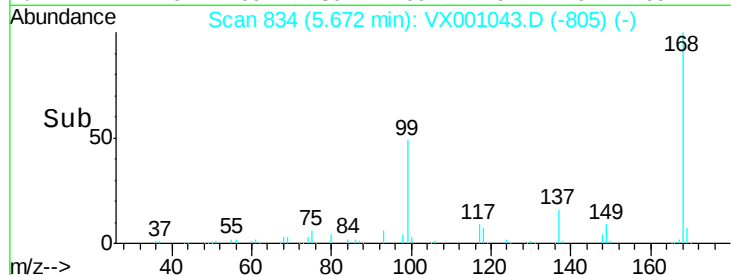
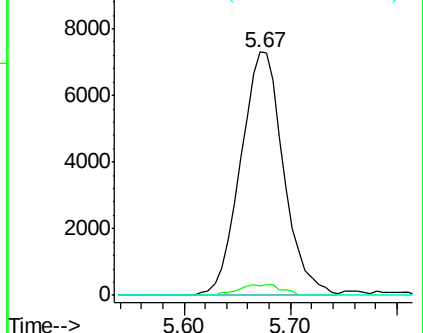
121 0.0 24.5 36.7#



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: 50.12 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001043.D

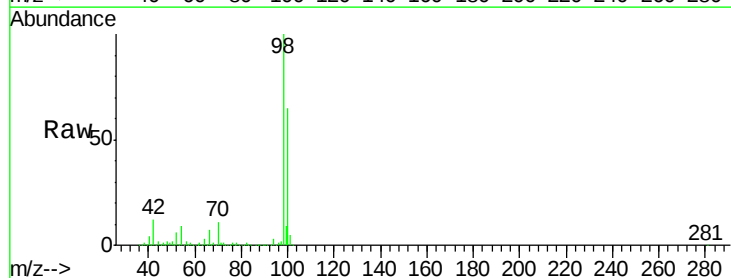
Acq: 21 Apr 2018 06:41

Tgt Ion: 98 Resp: 468489

Ion Ratio Lower Upper

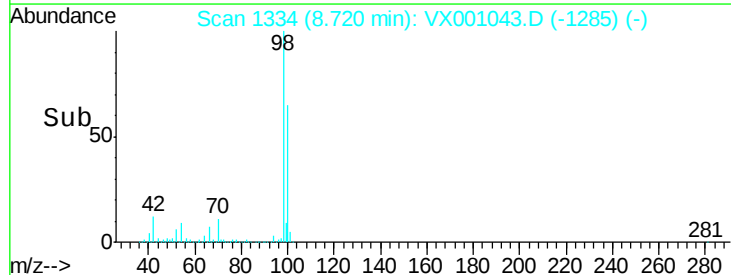
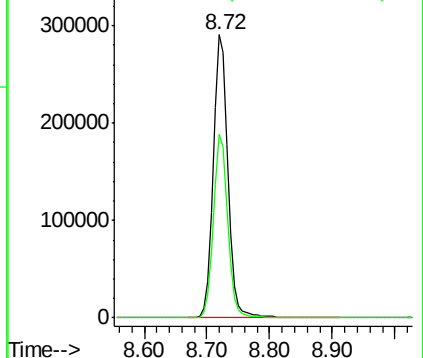
98 100

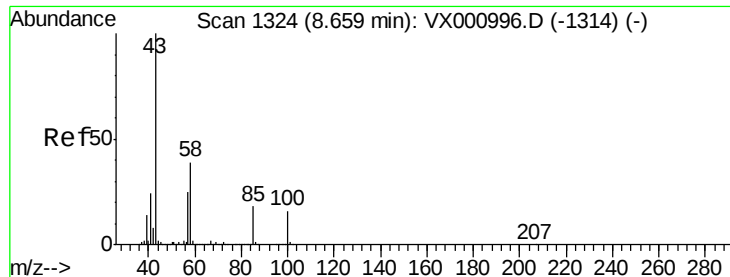
100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.66 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.06 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

Instrument :

MSVOA\_X

ClientSampleId :

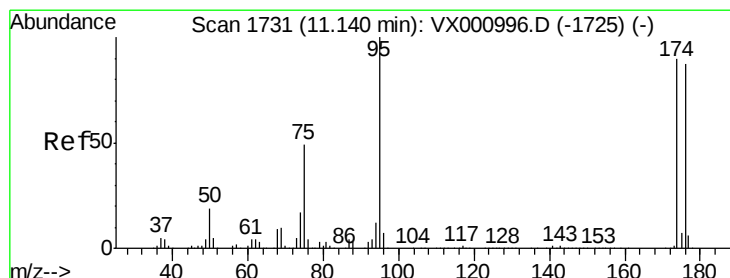
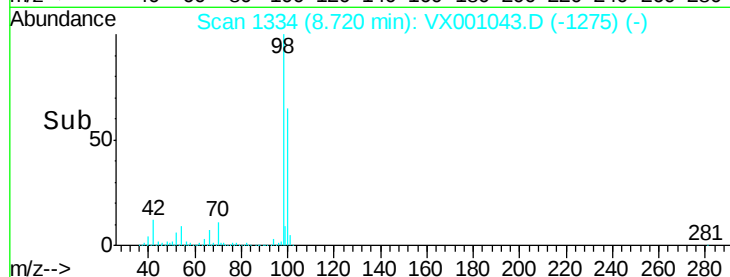
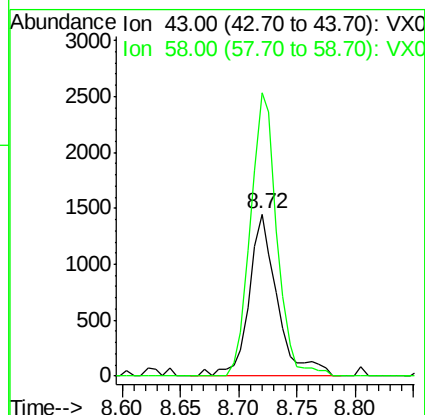
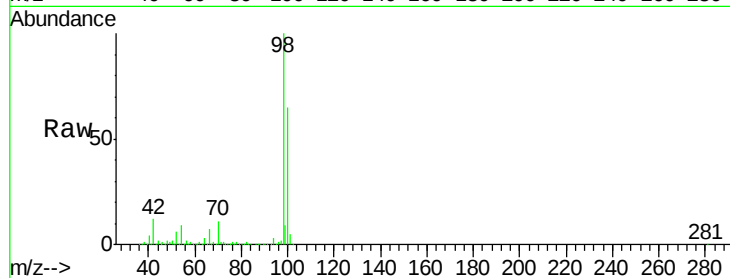
LF014RW032-180412

Tgt Ion: 43 Resp: 2459

Ion Ratio Lower Upper

43 100

58 163.3 30.2 45.4#



#62

4-Bromofluorobenzene

Concen: 46.89 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001043.D

Acq: 21 Apr 2018 06:41

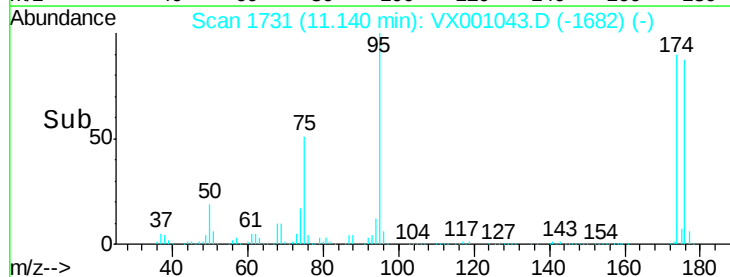
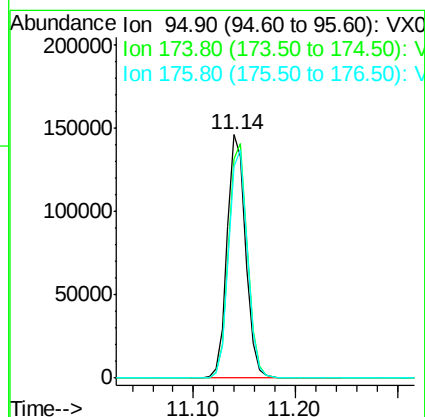
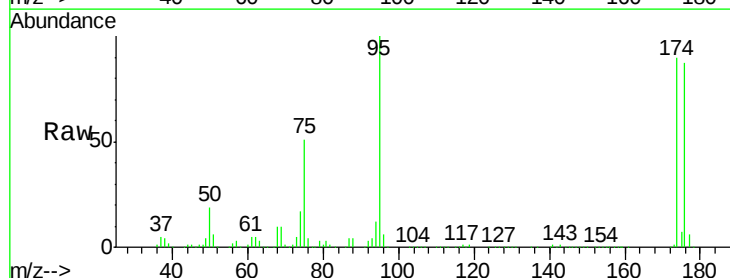
Tgt Ion: 95 Resp: 183939

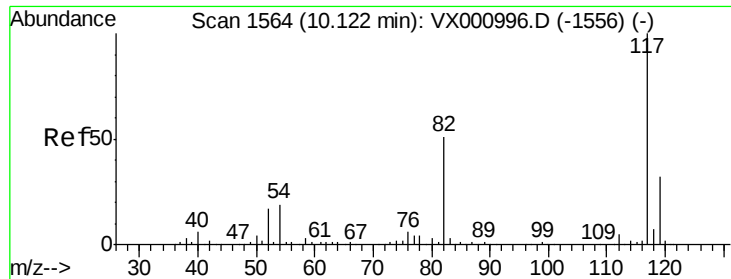
Ion Ratio Lower Upper

95 100

174 97.4 0.0 198.4

176 94.6 0.0 192.0

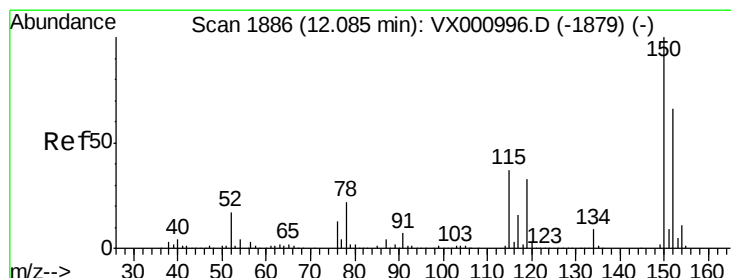
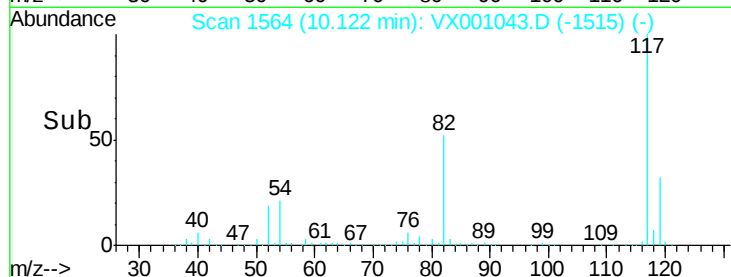
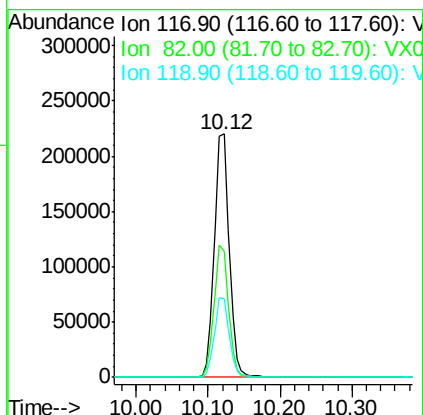
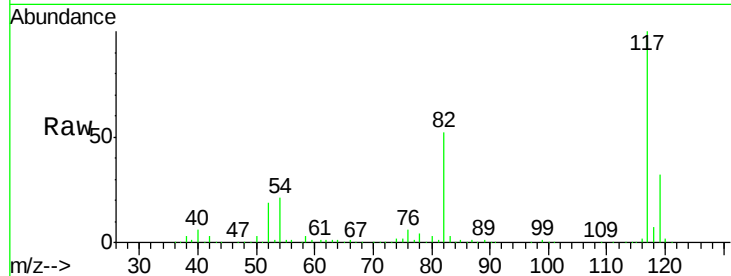




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.00 min  
Lab File: VX001043.D  
Acq: 21 Apr 2018 06:41

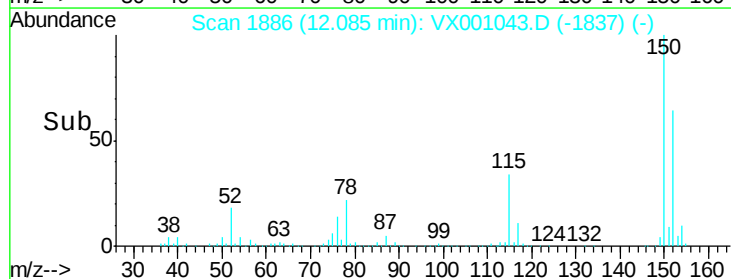
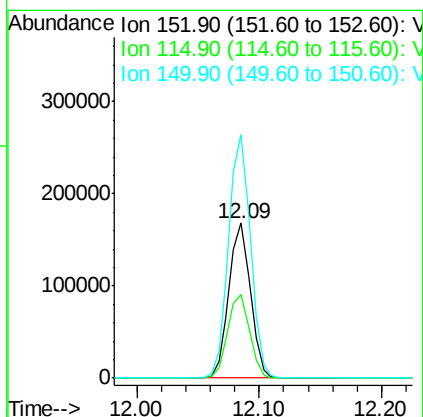
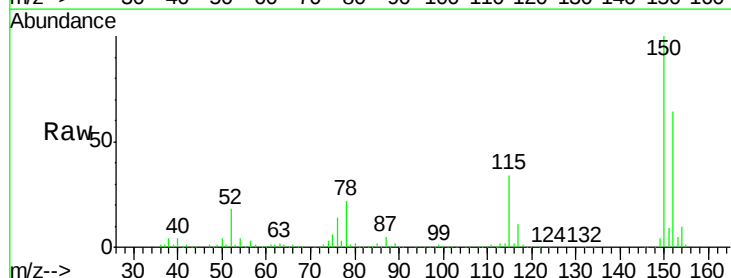
Instrument :  
MSVOA\_X  
ClientSampleId :  
LF014RW032-180412

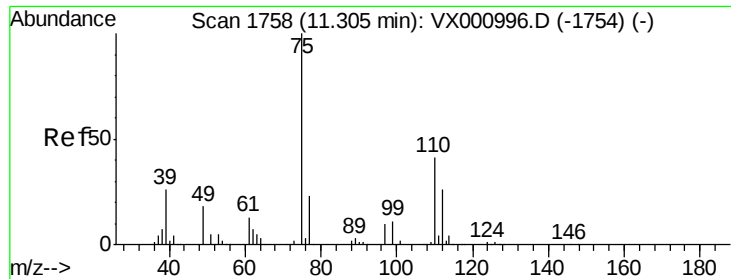
Tgt Ion:117 Resp: 314322  
Ion Ratio Lower Upper  
117 100  
82 51.6 40.6 60.8  
119 32.4 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX001043.D  
Acq: 21 Apr 2018 06:41

Tgt Ion:152 Resp: 204989  
Ion Ratio Lower Upper  
152 100  
115 54.7 38.2 114.6  
150 158.9 0.0 350.4

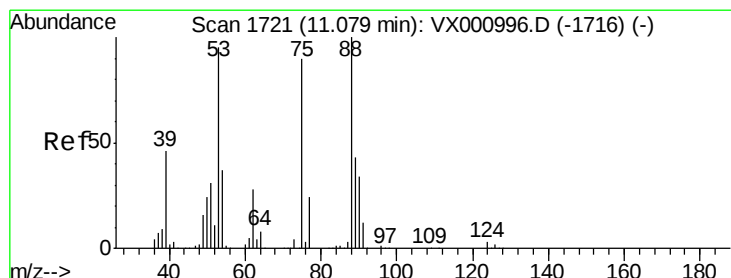
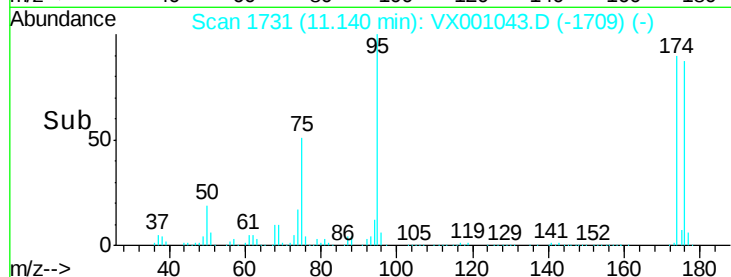
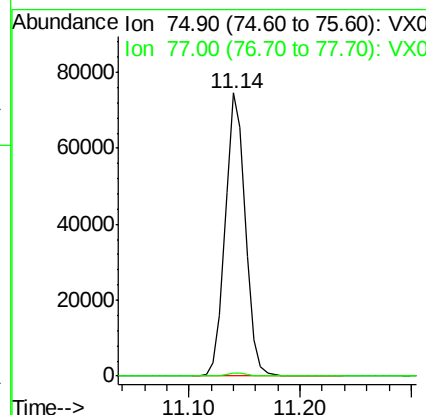
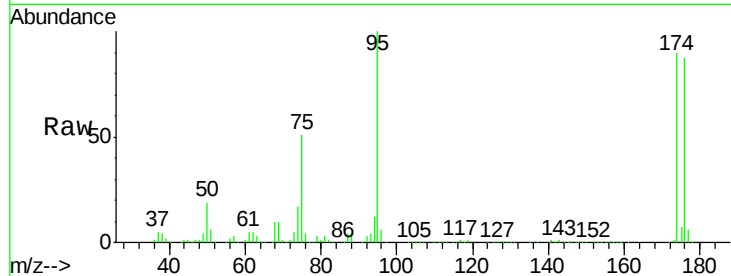




#76  
 1,2,3-Trichloropropane  
 Concen: 26.16 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX001043.D  
 Acq: 21 Apr 2018 06:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF014RW032-180412

Tgt Ion: 75 Resp: 93040  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.6 58.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 78.31 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX001043.D  
 Acq: 21 Apr 2018 06:41

Tgt Ion: 75 Resp: 93040  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 83.4 125.2#  
 89 0.0 39.7 59.5#

