

Data File : VX001336.D

Acq On : 03 May 2018 00:45

Operator : JC/MD

Sample : PB108794ZHE#15

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108794ZHE#15

Quant Time: May 03 05:11:18 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M

Quant Title : SW846 8260

QLast Update : Wed May 02 01:48:25 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 151544   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 201516   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 182250   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 102866   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.08   | 65  | 94126    | 44.87 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.74% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 78057    | 44.96 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.92% |      |
| 50) Toluene-d8            | 8.72   | 98  | 287749   | 46.39 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.78% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 92717    | 37.38 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 74.76% |      |

## Target Compounds

|                                |       |     |       |            |   | Qvalue |
|--------------------------------|-------|-----|-------|------------|---|--------|
| 5) Bromomethane                | 1.66  | 94  | 712   | Below Cal  |   | 85     |
| 6) Chloroethane                | 1.72  | 64  | 1239  | 1.13 ug/l  | # | 68     |
| 10) Methyl Iodide              | 2.53  | 142 | 1251  | 4.95 ug/l  |   | 99     |
| 11) Tert butyl alcohol         | 3.09  | 59  | 508   | 1.41 ug/l  | # | 37     |
| 13) Acrolein                   | 2.30  | 56  | 92    | 0.44 ug/l  | # | 1      |
| 15) Acrylonitrile              | 3.17  | 53  | 285   | 0.34 ug/l  | # | 64     |
| 16) Acetone                    | 2.45  | 43  | 12591 | 14.06 ug/l |   | 99     |
| 18) Methyl Acetate             | 2.78  | 43  | 15360 | 7.26 ug/l  |   | 97     |
| 20) Methylene Chloride         | 2.86  | 84  | 3690  | 0.71 ug/l  |   | 94     |
| 25) 2-Butanone                 | 4.72  | 43  | 4568  | 3.77 ug/l  |   | 97     |
| 29) Tetrahydrofuran            | 5.20  | 42  | 1039  | 1.40 ug/l  | # | 81     |
| 31) Cyclohexane                | 5.67  | 56  | 2776  | 1.08 ug/l  | # | 25     |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 9386  | 4.04 ug/l  | # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 12630 | 5.18 ug/l  | # | 18     |
| 48) Methyl methacrylate        | 7.71  | 41  | 1304  | 0.65 ug/l  | # | 14     |
| 51) 4-Methyl-2-Pentanone       | 8.66  | 43  | 910   | 0.37 ug/l  |   | 95     |
| 59) 2-Hexanone                 | 9.51  | 43  | 735   | 0.38 ug/l  |   | 76     |
| 74) N-amyl acetate             | 6.48  | 43  | 638   | 0.22 ug/l  | # | 67     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 47492 | 24.97 ug/l | # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 47492 | 78.55 ug/l | # | 6      |

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

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Sample : PB108794ZHE#15

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 31 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

PB108794ZHE#15

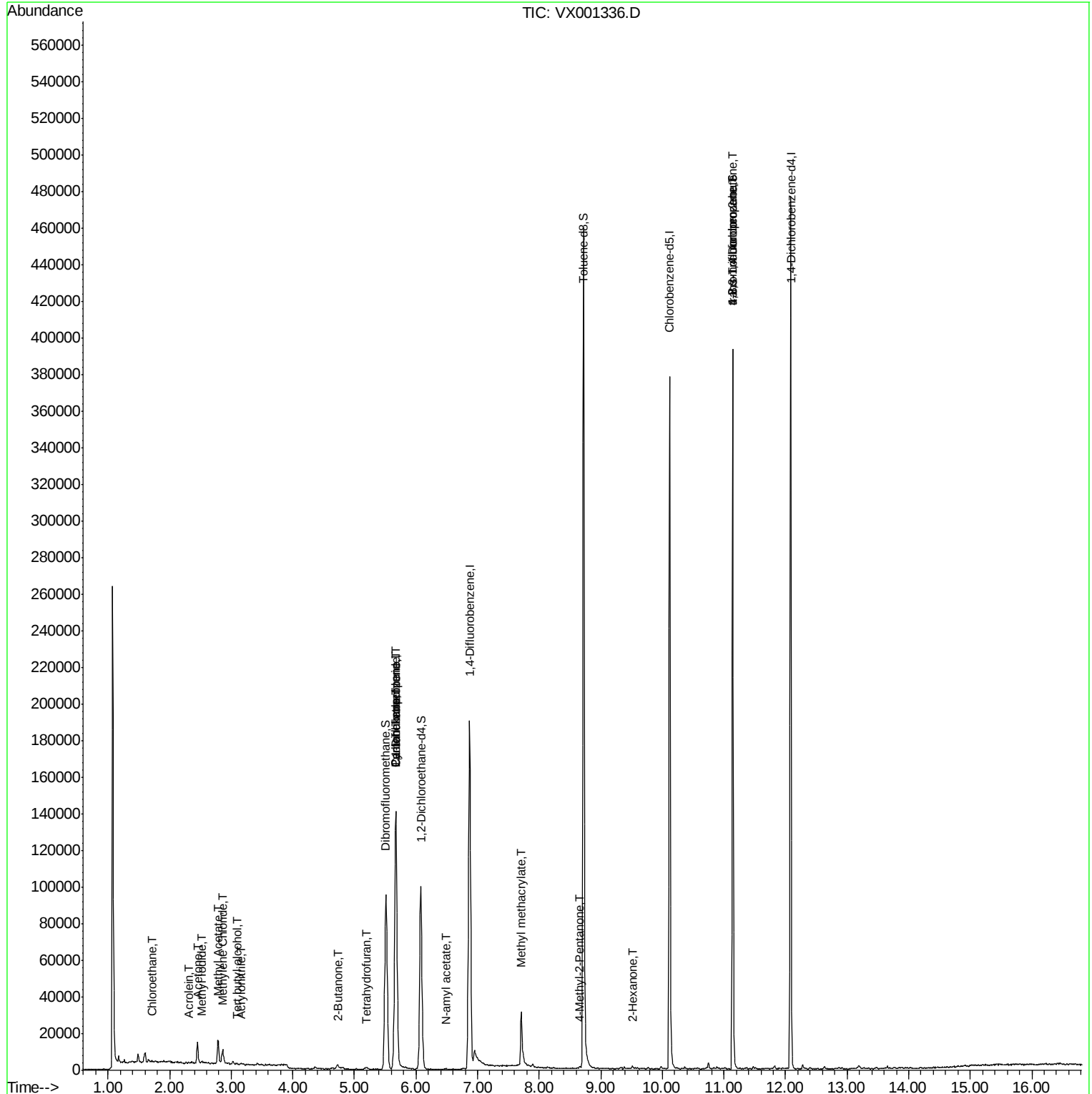
Quant Time: May 03 05:11:18 2018

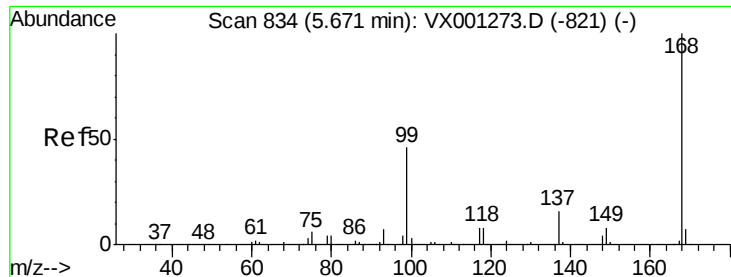
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M

Quant Title : SW846 8260

QLast Update : Wed May 02 01:48:25 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: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

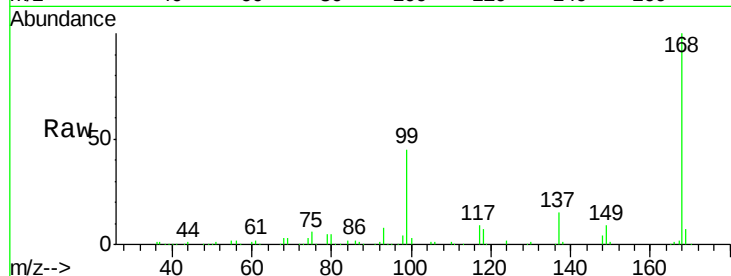
PB108794ZHE#15

Tgt Ion:168 Resp: 151544

Ion Ratio Lower Upper

168 100

99 45.4 36.5 54.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

50000

40000

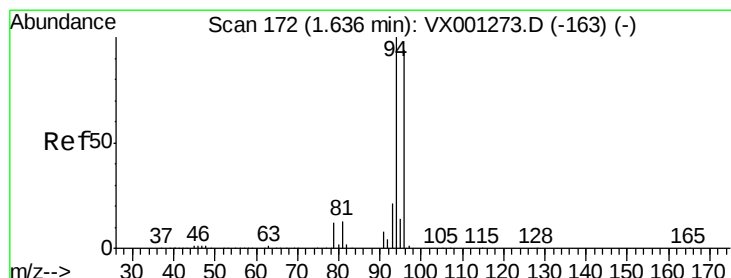
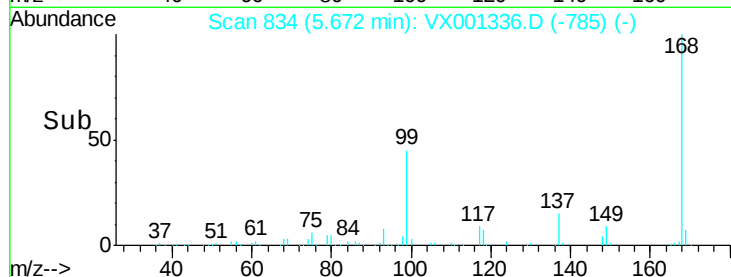
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001336.D

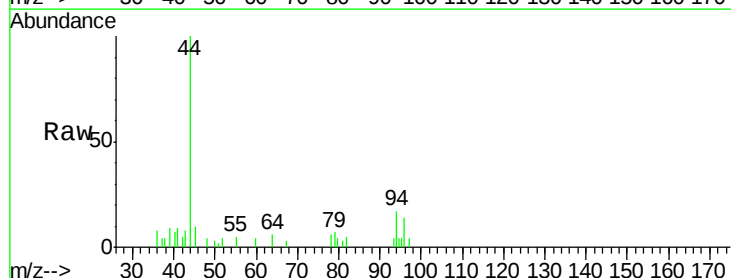
Acq: 03 May 2018 00:45

Tgt Ion: 94 Resp: 712

Ion Ratio Lower Upper

94 100

96 80.2 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

400

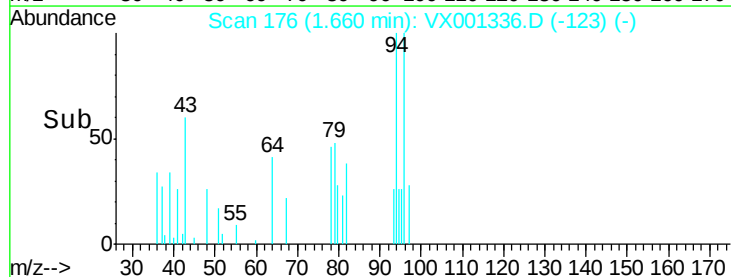
300

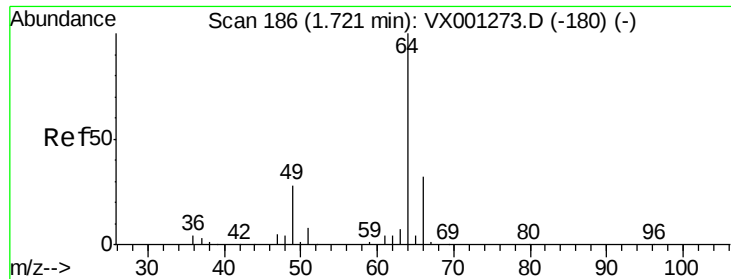
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 1.13 ug/l

RT: 1.72 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

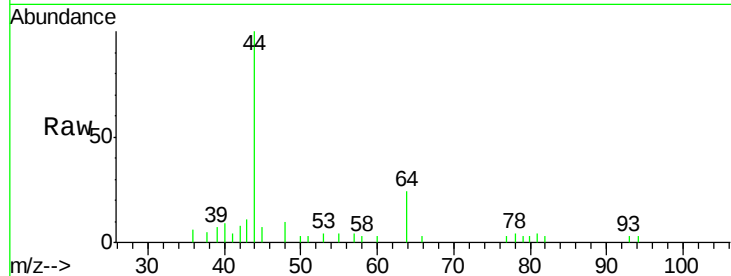
PB108794ZHE#15

Tgt Ion: 64 Resp: 1239

Ion Ratio Lower Upper

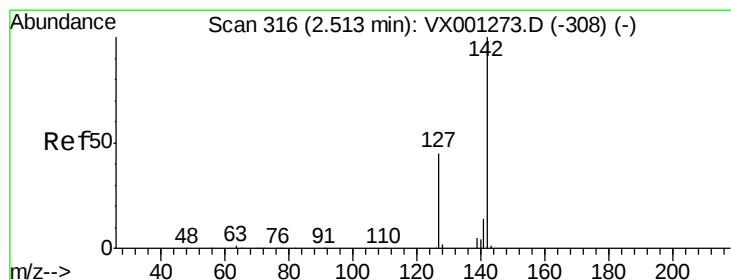
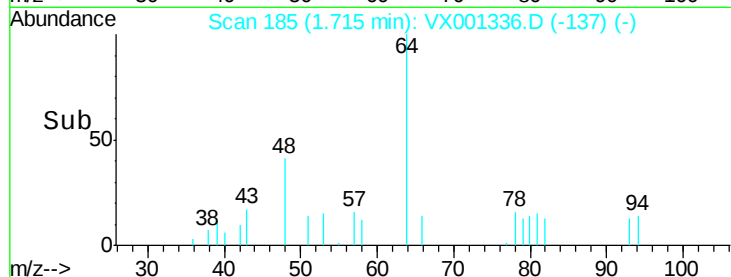
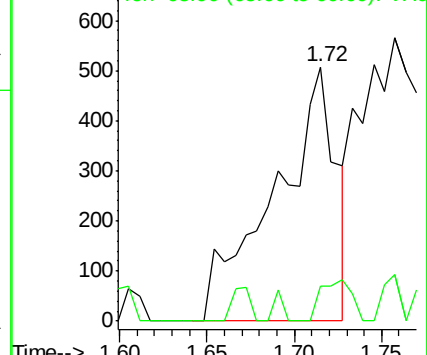
64 100

66 14.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.95 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

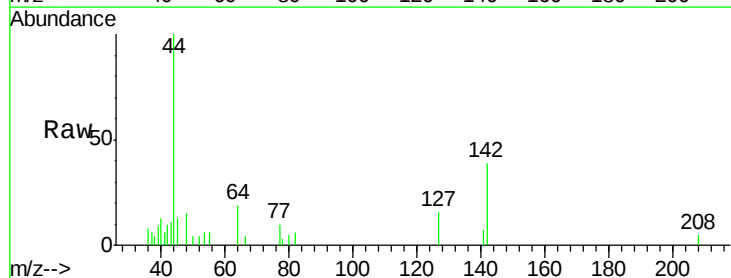
Tgt Ion: 142 Resp: 1251

Ion Ratio Lower Upper

142 100

127 45.5 35.7 53.5

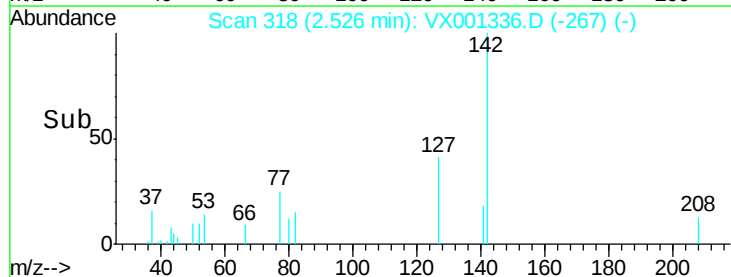
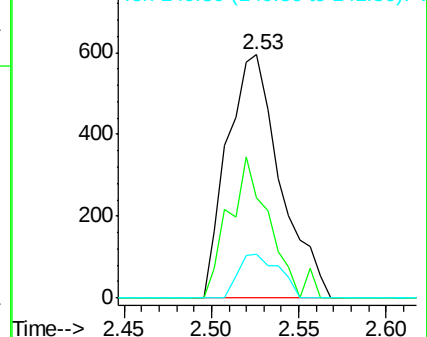
141 13.8 11.4 17.0

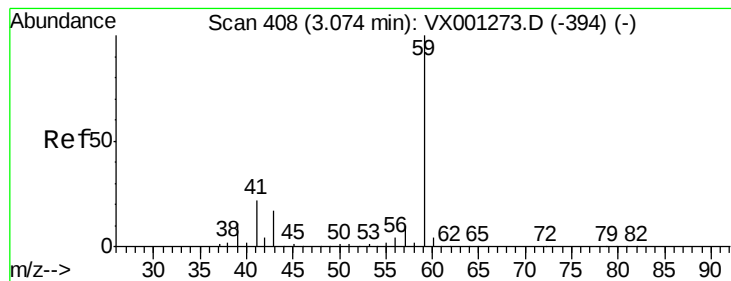


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



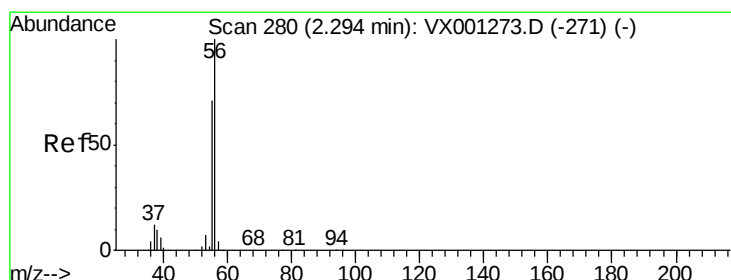
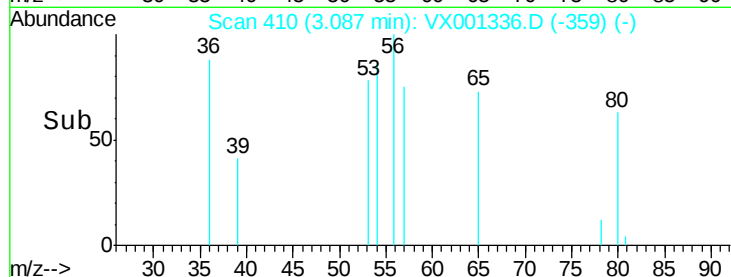
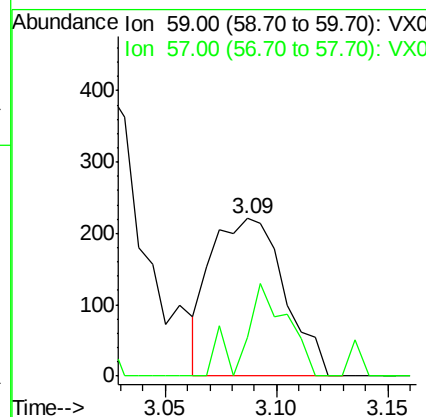
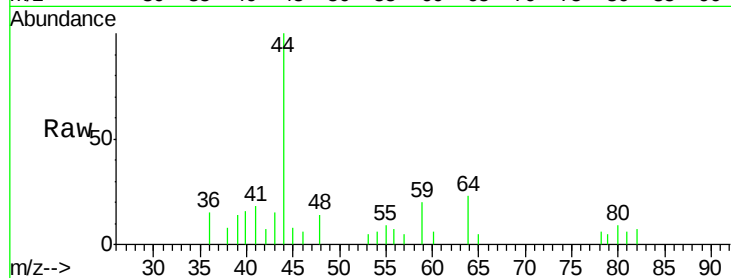


#11

Tert butyl alcohol  
Concen: 1.41 ug/l  
RT: 3.09 min Scan# 410  
Delta R.T. 0.01 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

Instrument :  
MSVOA\_X  
ClientSampled :  
PB108794ZHE#15

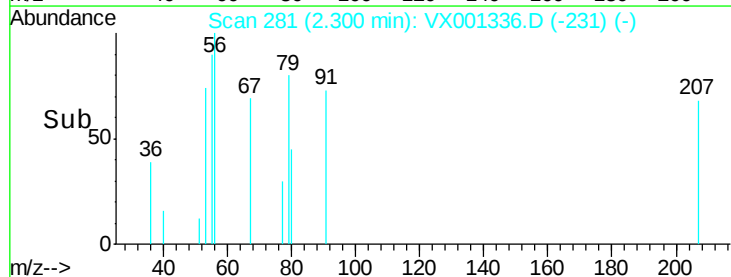
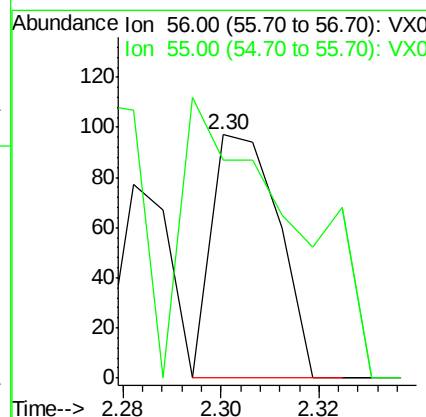
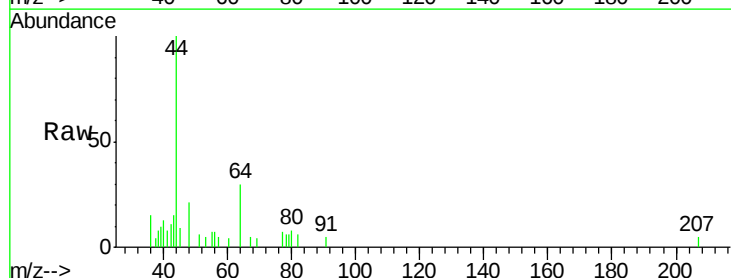
Tgt Ion: 59 Resp: 508  
Ion Ratio Lower Upper  
59 100  
57 34.4 8.6 12.8#

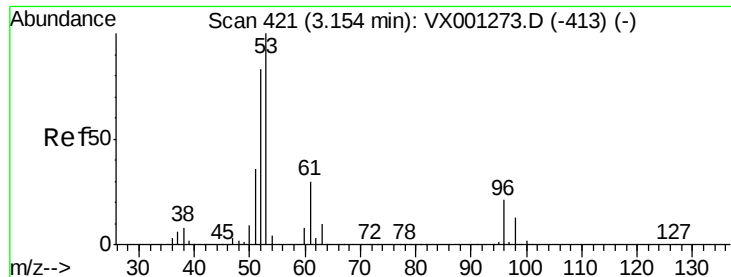


#13

Acrolein  
Concen: 0.44 ug/l  
RT: 2.30 min Scan# 281  
Delta R.T. 0.01 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

Tgt Ion: 56 Resp: 92  
Ion Ratio Lower Upper  
56 100  
55 187.0 57.2 85.8#

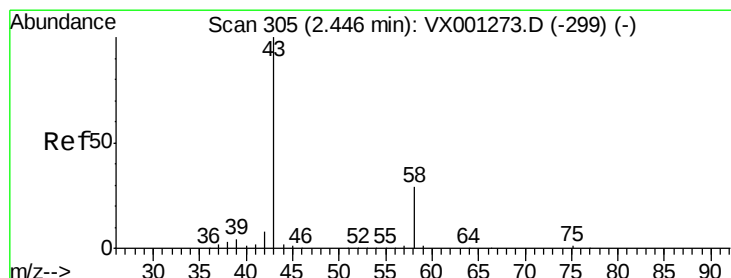
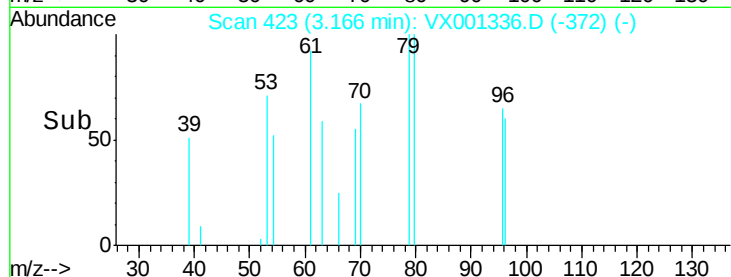
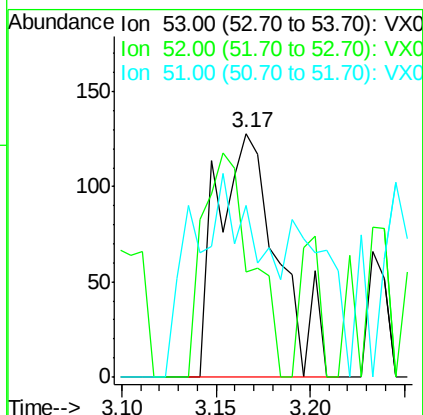
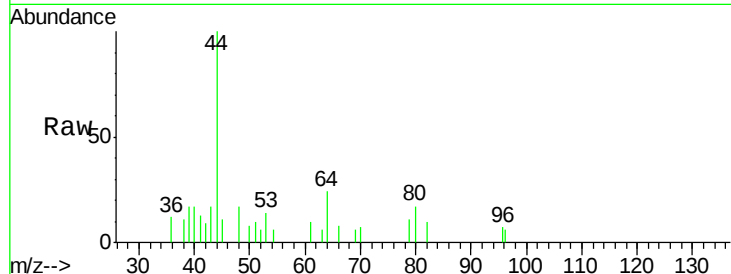




#15  
Acrylonitrile  
Concen: 0.34 ug/l  
RT: 3.17 min Scan# 423  
Delta R.T. 0.01 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

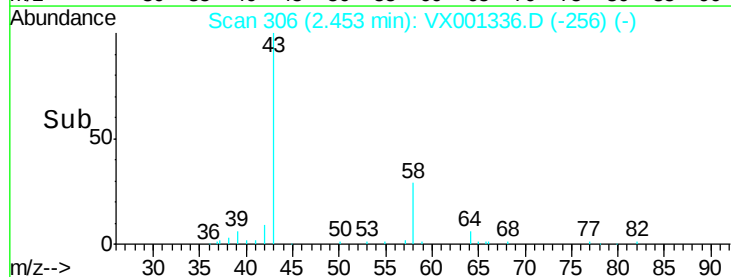
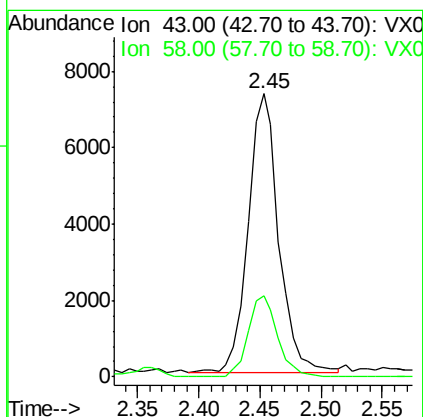
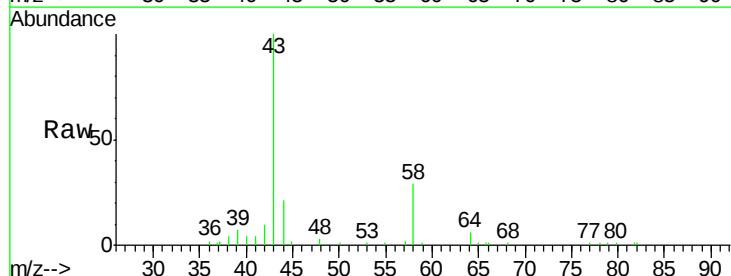
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108794ZHE#15

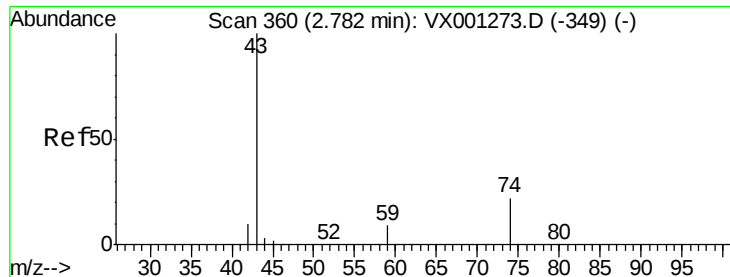
Tgt Ion: 53 Resp: 285  
Ion Ratio Lower Upper  
53 100  
52 73.3 67.0 100.4  
51 92.6 29.9 44.9#



#16  
Acetone  
Concen: 14.06 ug/l  
RT: 2.45 min Scan# 306  
Delta R.T. 0.01 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

Tgt Ion: 43 Resp: 12591  
Ion Ratio Lower Upper  
43 100  
58 29.2 22.8 34.2

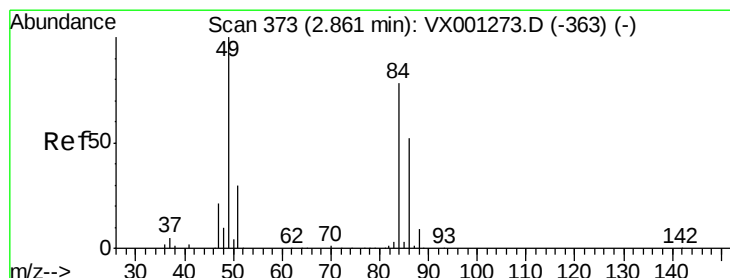
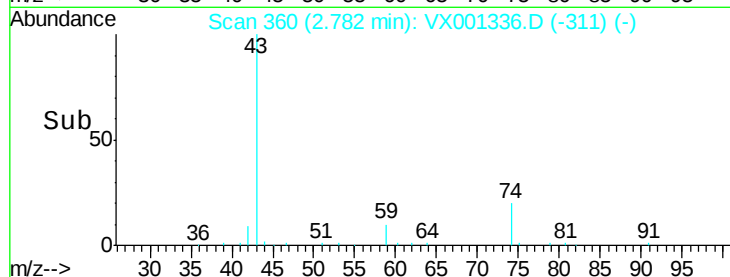
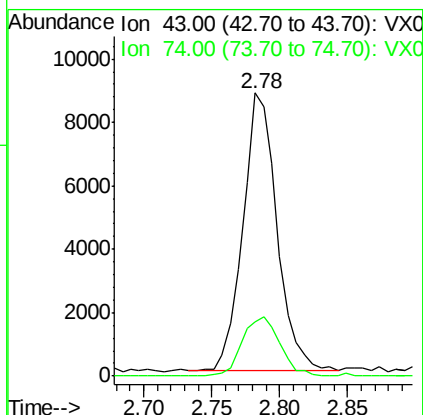
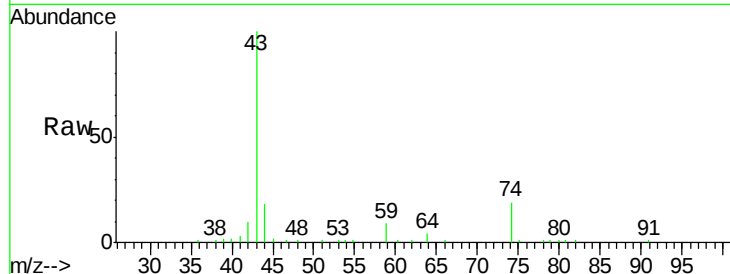




#18  
Methyl Acetate  
Concen: 7.26 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. 0.00 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

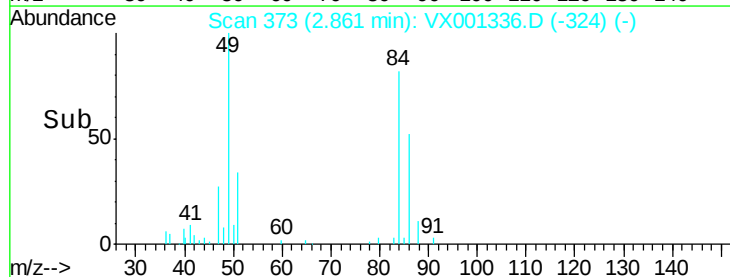
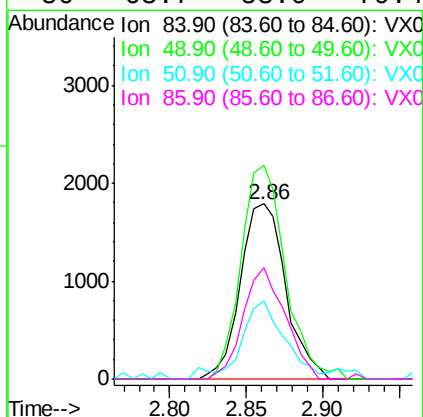
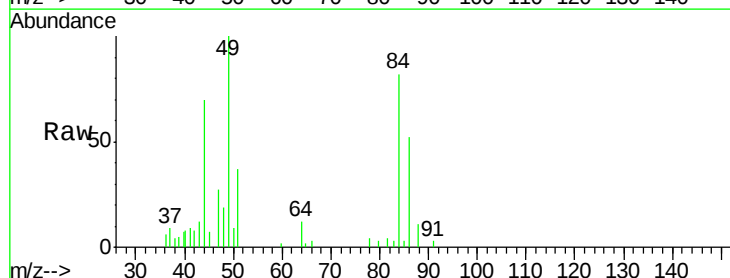
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108794ZHE#15

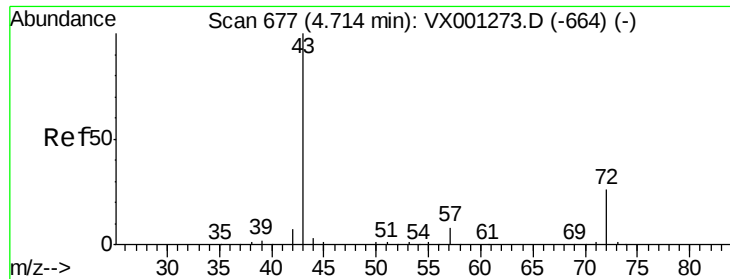
Tgt Ion: 43 Resp: 15360  
Ion Ratio Lower Upper  
43 100  
74 23.6 17.8 26.6



#20  
Methylene Chloride  
Concen: 0.71 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.00 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

Tgt Ion: 84 Resp: 3690  
Ion Ratio Lower Upper  
84 100  
49 121.9 102.8 154.2  
51 44.9 30.9 46.3  
86 63.7 53.0 79.4





#25

2-Butanone

Concen: 3.77 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

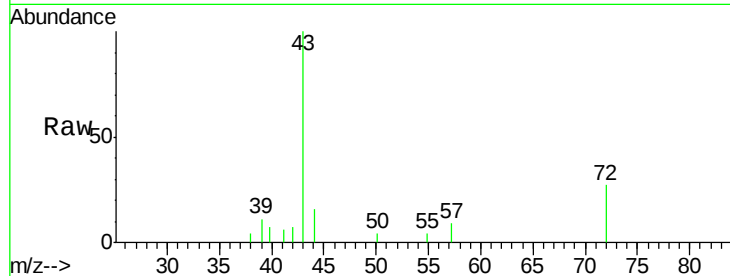
PB108794ZHE#15

Tgt Ion: 43 Resp: 4568

Ion Ratio Lower Upper

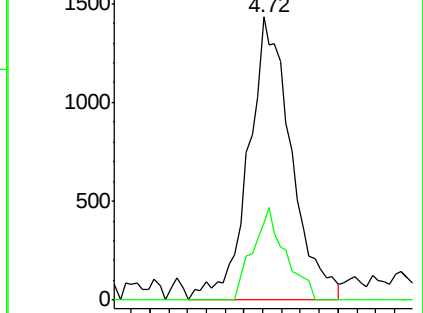
43 100

72 27.1 20.5 30.7

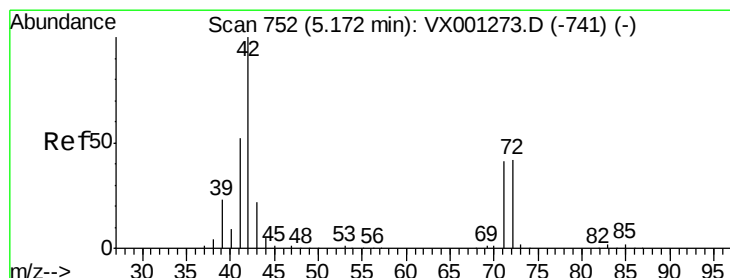
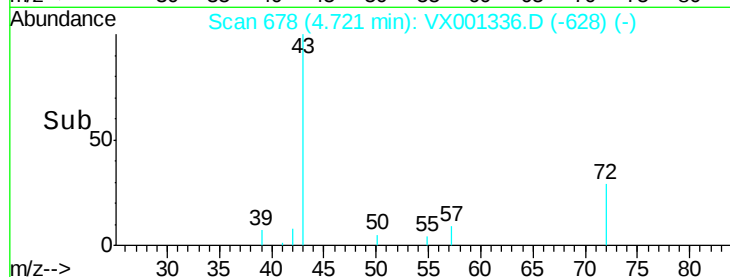


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 1.40 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

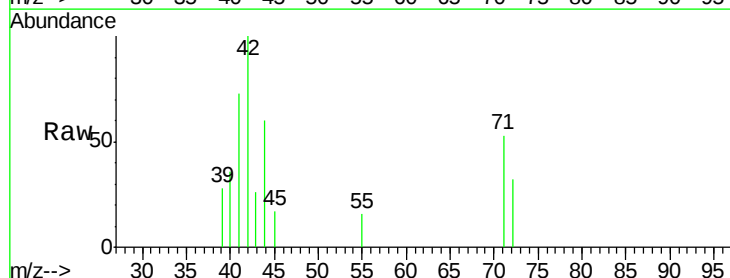
Tgt Ion: 42 Resp: 1039

Ion Ratio Lower Upper

42 100

72 32.3 34.6 52.0#

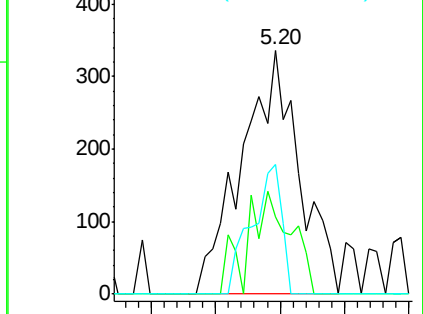
71 27.6 32.7 49.1#



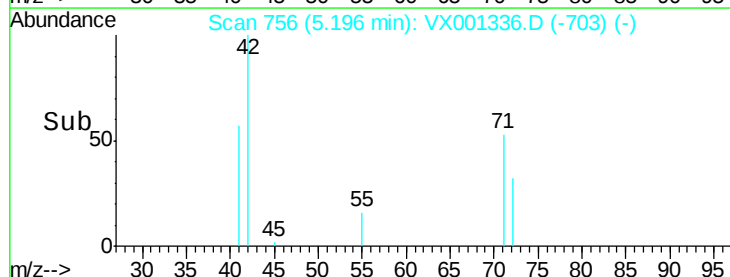
Abundance Ion 42.00 (41.70 to 42.70): VX0

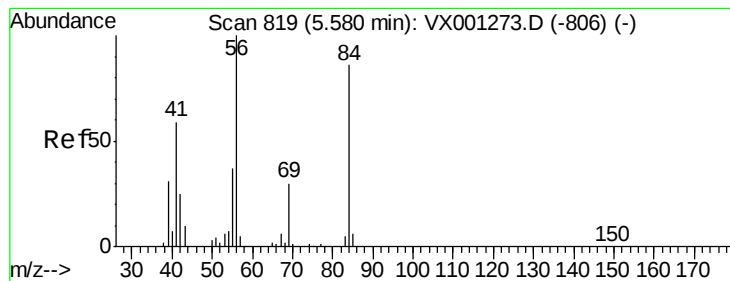
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->





#31

Cyclohexane

Concen: 1.08 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

PB108794ZHE#15

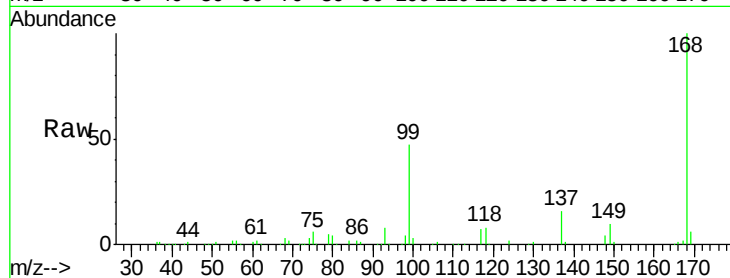
Tgt Ion: 56 Resp: 2776

Ion Ratio Lower Upper

56 100

69 125.4 24.0 36.0#

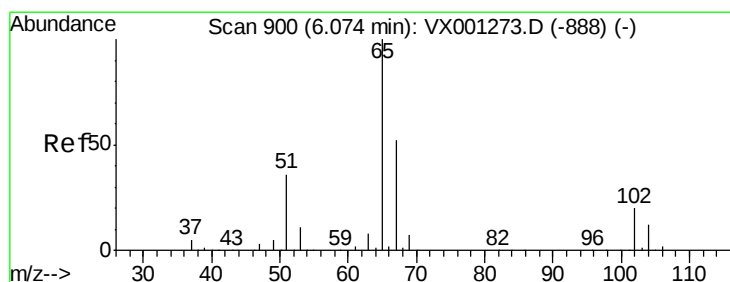
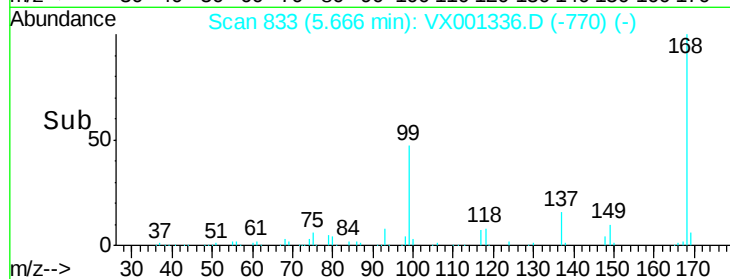
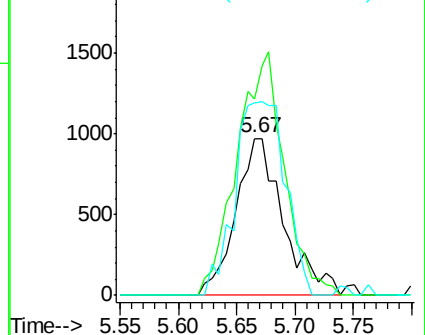
84 122.2 69.0 103.4#



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: 44.87 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001336.D

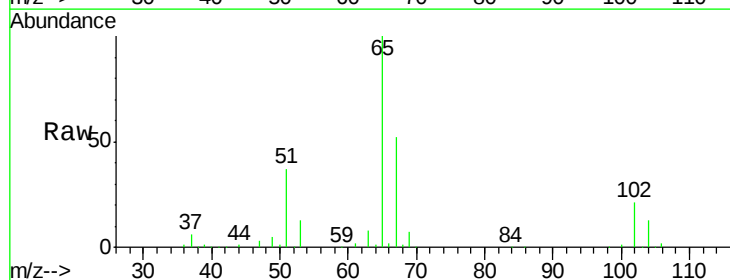
Acq: 03 May 2018 00:45

Tgt Ion: 65 Resp: 94126

Ion Ratio Lower Upper

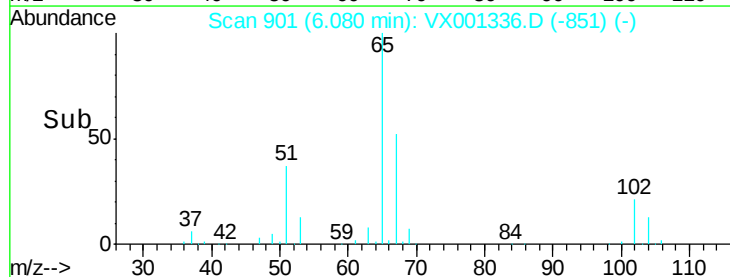
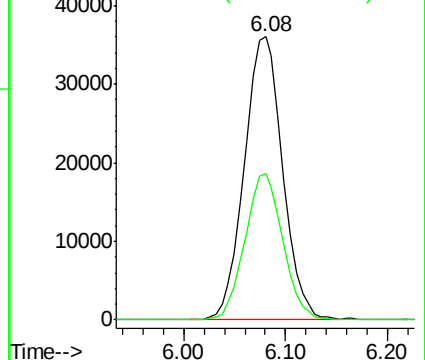
65 100

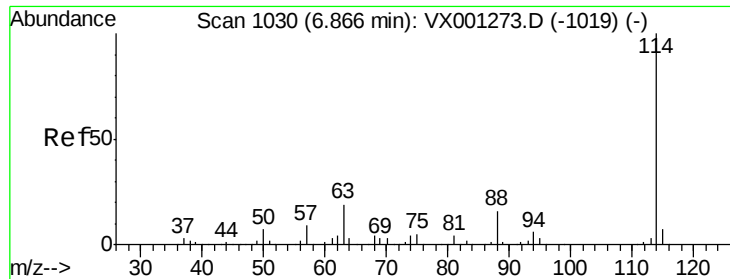
67 51.1 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

PB108794ZHE#15

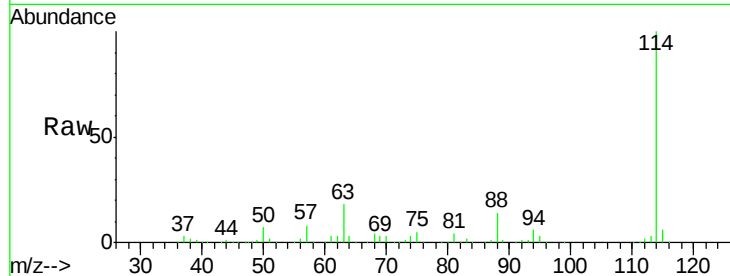
Tgt Ion:114 Resp: 201516

Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.8

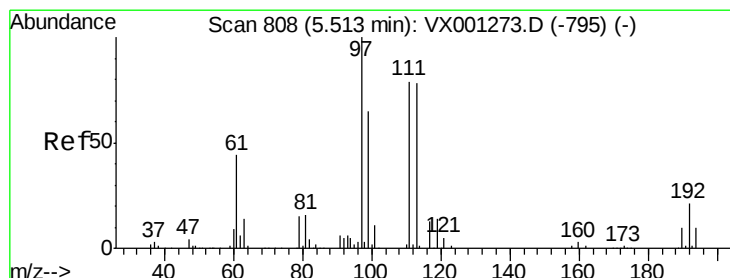
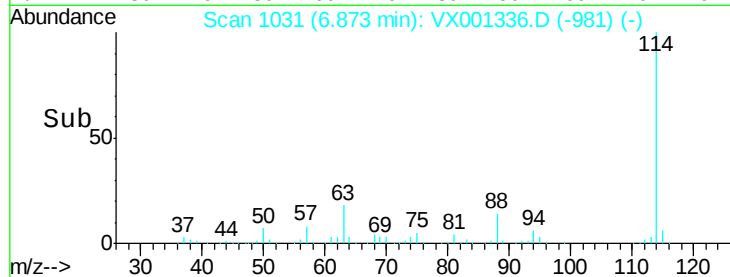
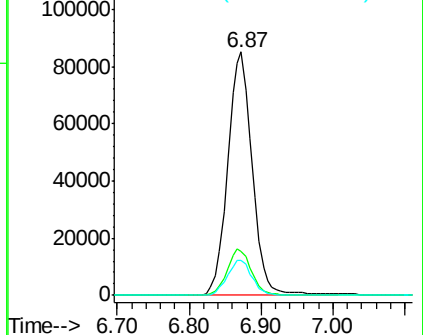
88 14.1 0.0 32.2



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: 44.96 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

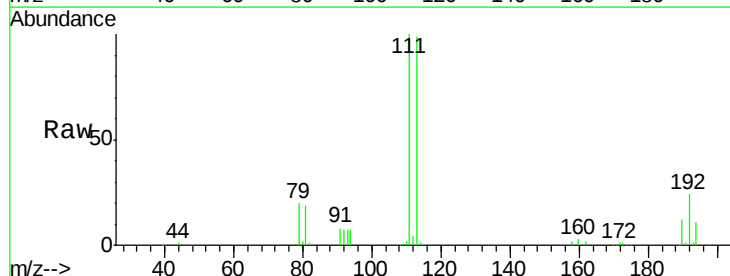
Tgt Ion:113 Resp: 78057

Ion Ratio Lower Upper

113 100

111 100.7 81.2 121.8

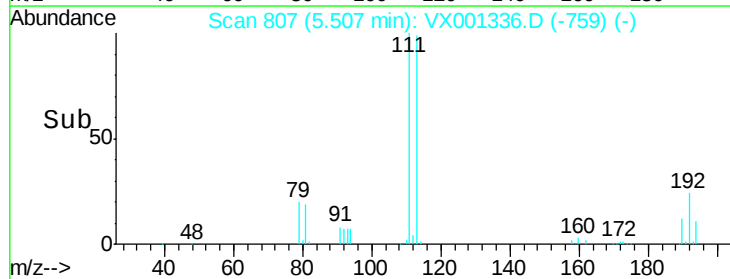
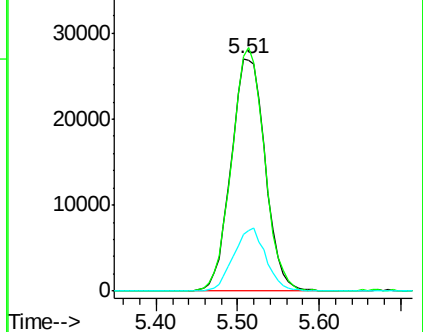
192 25.7 20.7 31.1

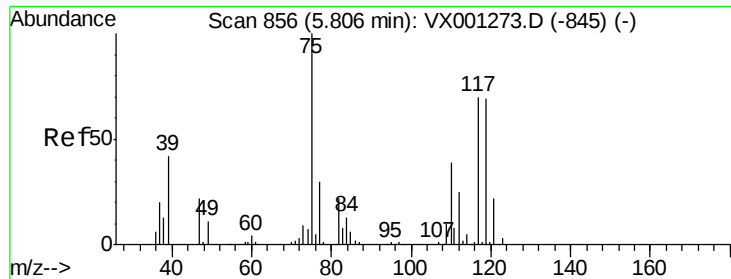


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

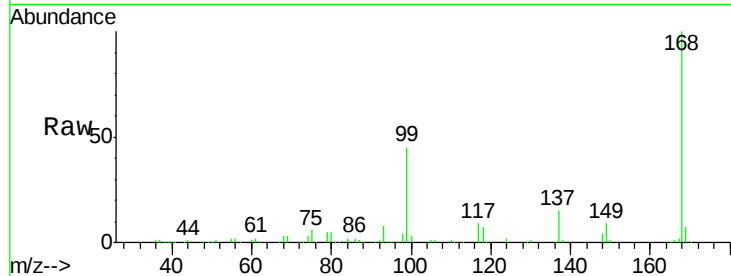




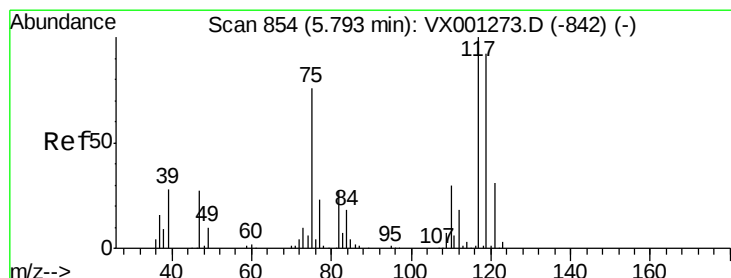
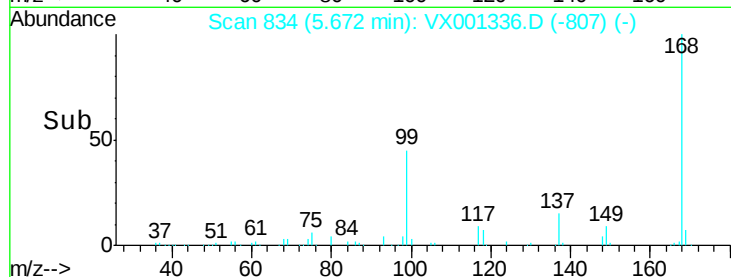
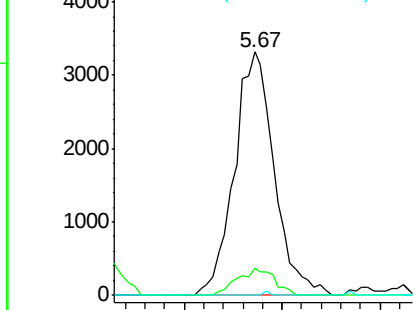
#36  
 1,1-Dichloropropene  
 Concen: 4.04 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001336.D  
 Acq: 03 May 2018 00:45

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB108794ZHE#15

Tgt Ion: 75 Resp: 9386  
 Ion Ratio Lower Upper  
 75 100  
 110 10.2 18.9 56.9#  
 77 0.2 24.2 36.2#

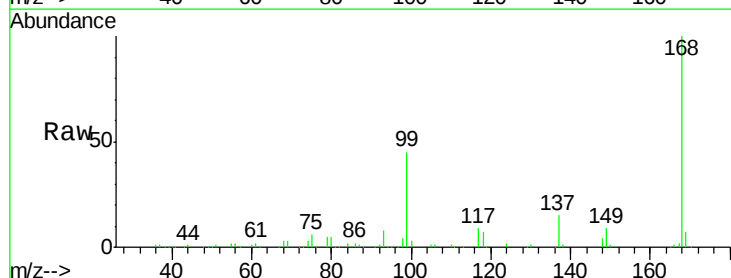


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

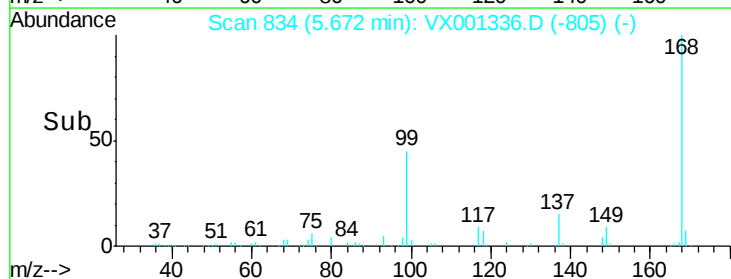
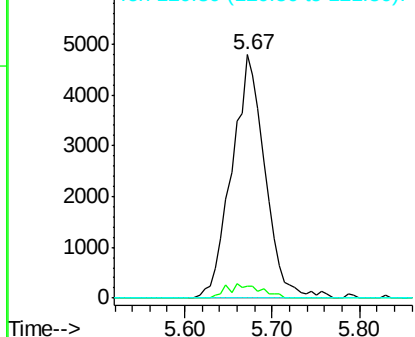


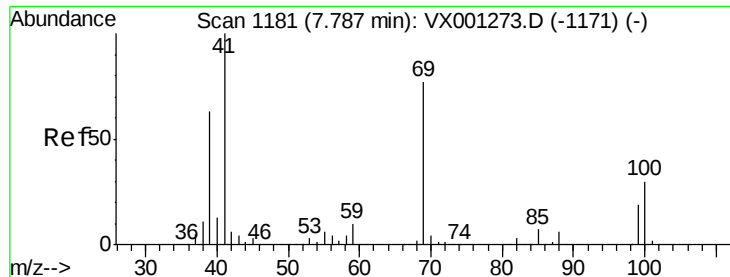
#38  
 Carbon Tetrachloride  
 Concen: 5.18 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX001336.D  
 Acq: 03 May 2018 00:45

Tgt Ion: 117 Resp: 12630  
 Ion Ratio Lower Upper  
 117 100  
 119 4.9 73.4 110.2#  
 121 0.0 25.0 37.4#



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

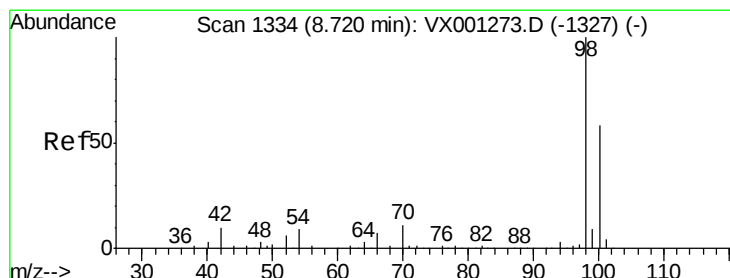
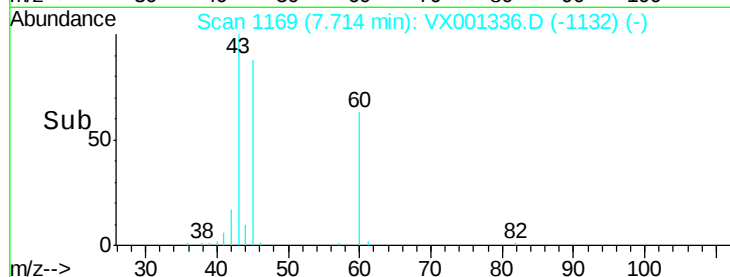
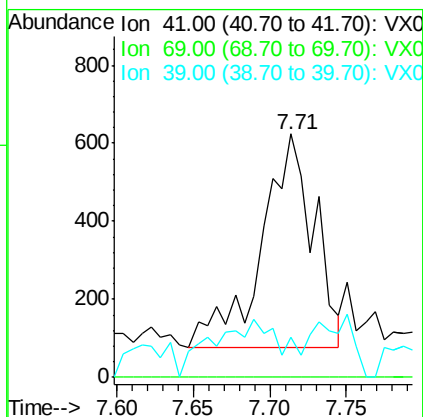
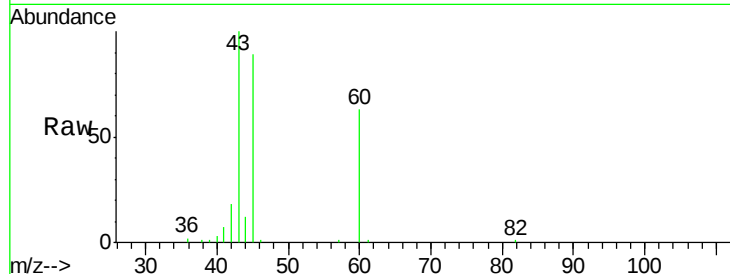




#48  
Methyl methacrylate  
Concen: 0.65 ug/l  
RT: 7.71 min Scan# 1169  
Delta R.T. -0.07 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

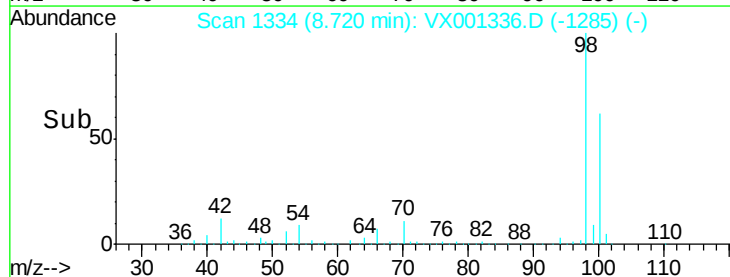
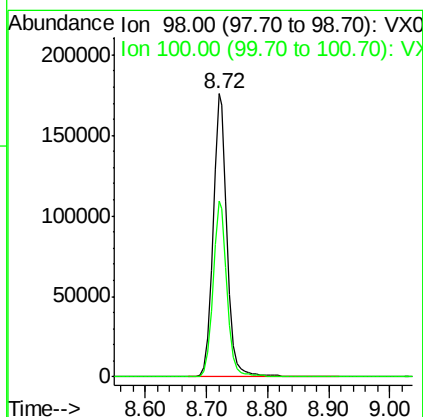
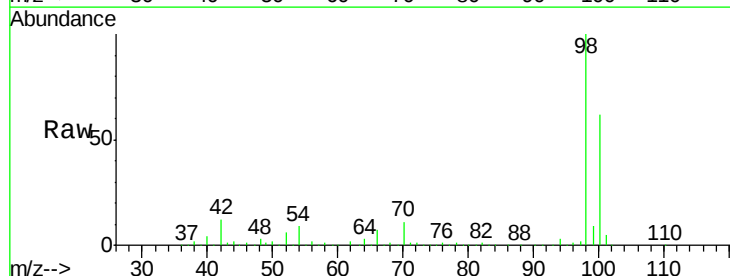
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108794ZHE#15

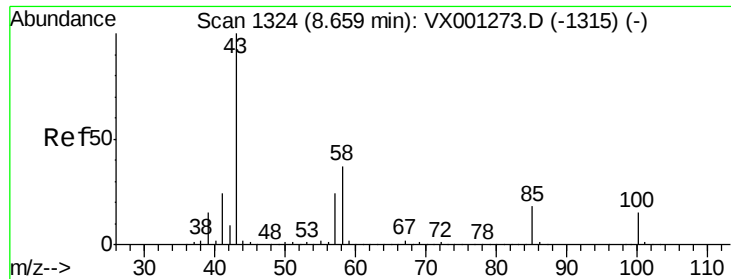
Tgt Ion: 41 Resp: 1304  
Ion Ratio Lower Upper  
41 100  
69 0.0 63.0 94.6#  
39 0.0 50.2 75.4#



#50  
Toluene-d8  
Concen: 46.39 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

Tgt Ion: 98 Resp: 287749  
Ion Ratio Lower Upper  
98 100  
100 62.3 51.0 76.4





#51

4-Methyl-2-Pentanone

Concen: 0.37 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

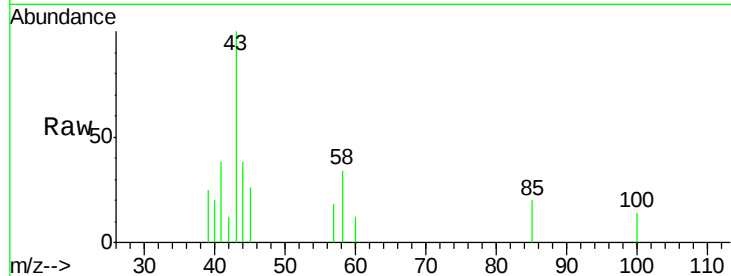
PB108794ZHE#15

Tgt Ion: 43 Resp: 910

Ion Ratio Lower Upper

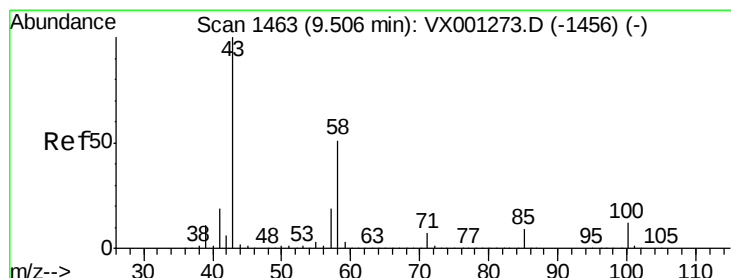
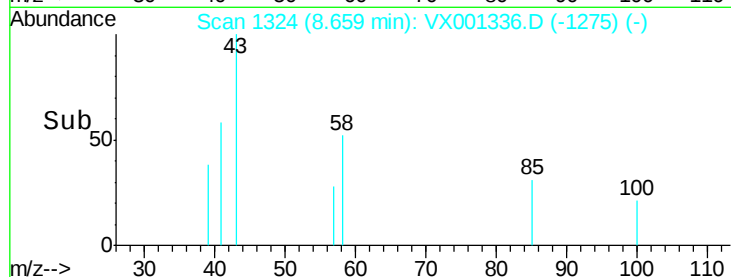
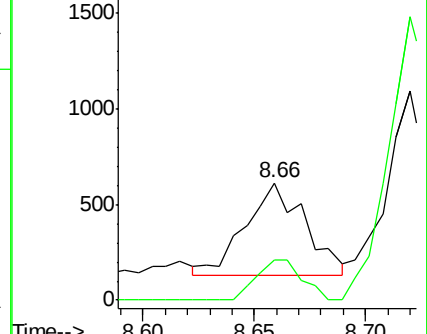
43 100

58 33.2 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 0.38 ug/l

RT: 9.51 min Scan# 1464

Delta R.T. 0.01 min

Lab File: VX001336.D

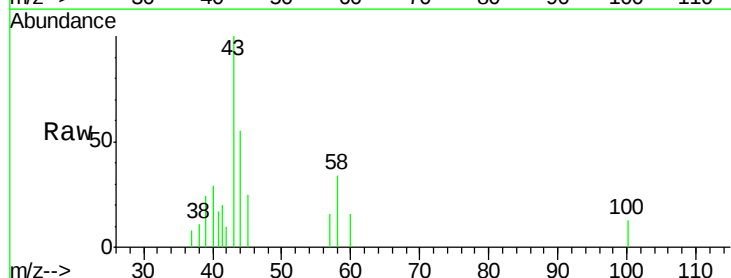
Acq: 03 May 2018 00:45

Tgt Ion: 43 Resp: 735

Ion Ratio Lower Upper

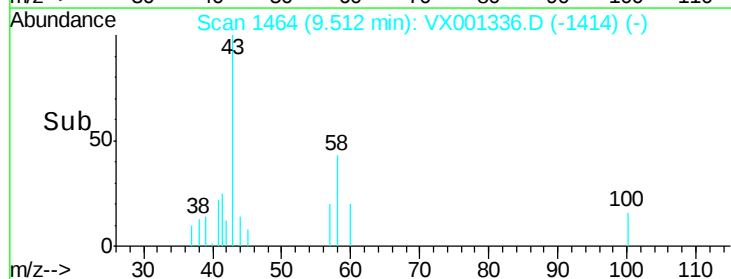
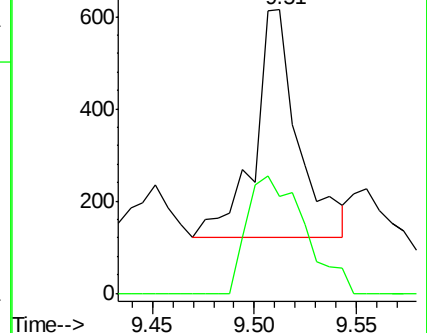
43 100

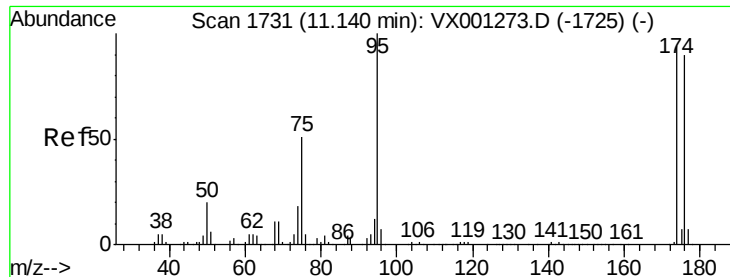
58 68.0 25.7 77.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

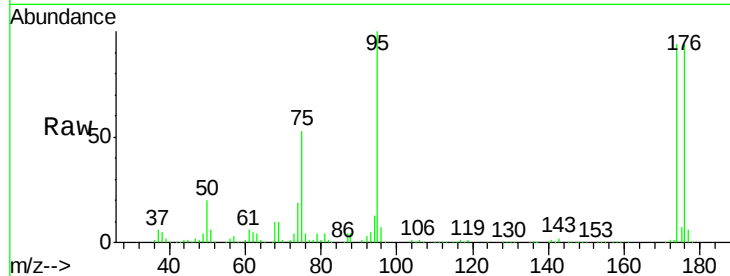




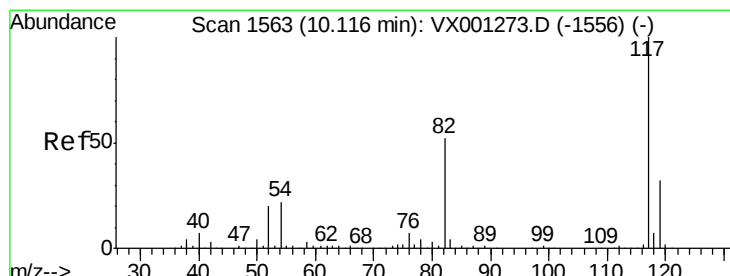
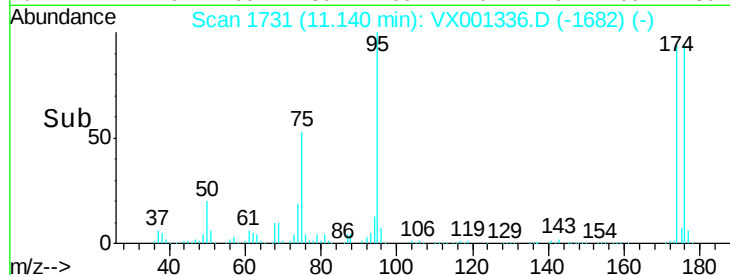
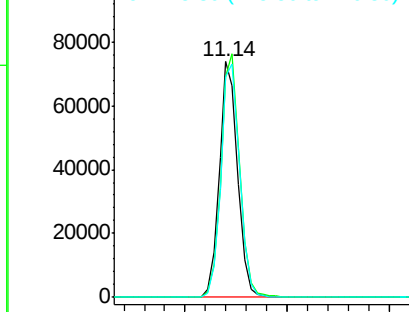
#62  
4-Bromofluorobenzene  
Concen: 37.38 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB108794ZHE#15

Tgt Ion: 95 Resp: 92717  
Ion Ratio Lower Upper  
95 100  
174 104.4 0.0 201.8  
176 101.7 0.0 197.2

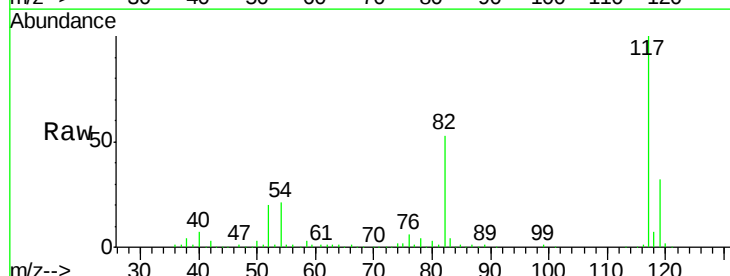


Abundance Ion 94.90 (94.60 to 95.60): VX0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

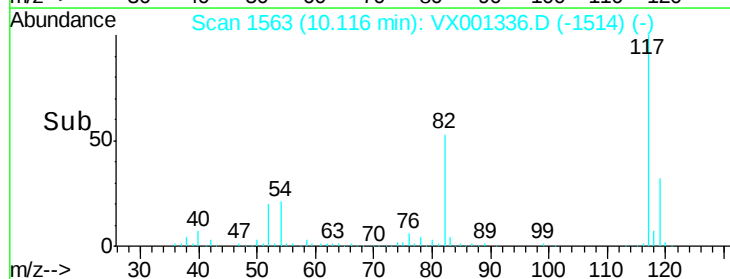
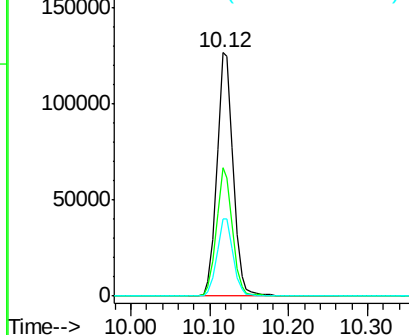


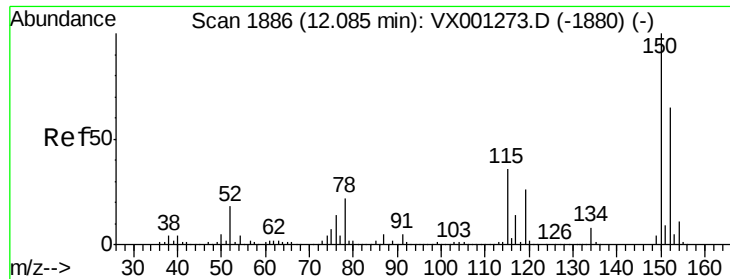
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX001336.D  
Acq: 03 May 2018 00:45

Tgt Ion: 117 Resp: 182250  
Ion Ratio Lower Upper  
117 100  
82 52.8 41.4 62.0  
119 31.6 25.5 38.3



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: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

PB108794ZHE#15

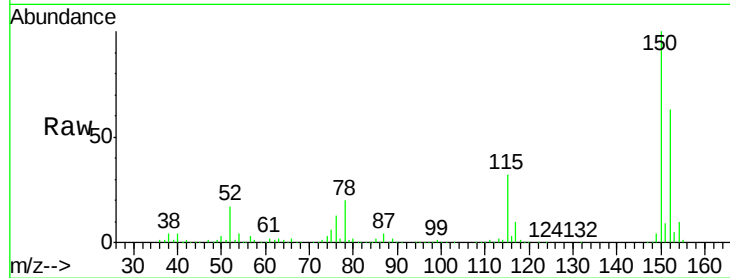
Tgt Ion:152 Resp: 102866

Ion Ratio Lower Upper

152 100

115 51.6 38.6 115.7

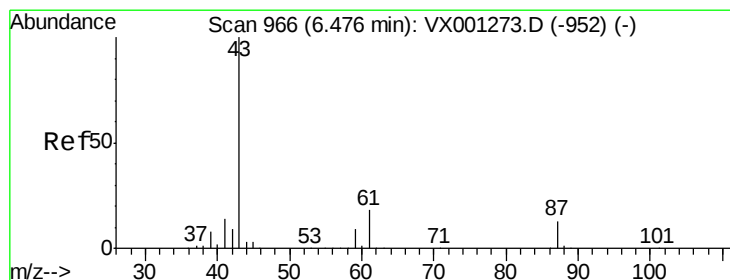
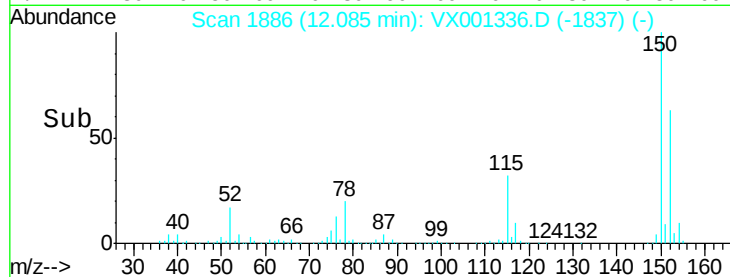
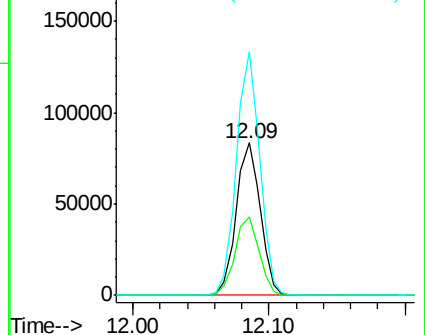
150 155.2 0.0 349.2



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



#74

N-ethyl acetate

Concen: 0.22 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Tgt Ion: 43 Resp: 638

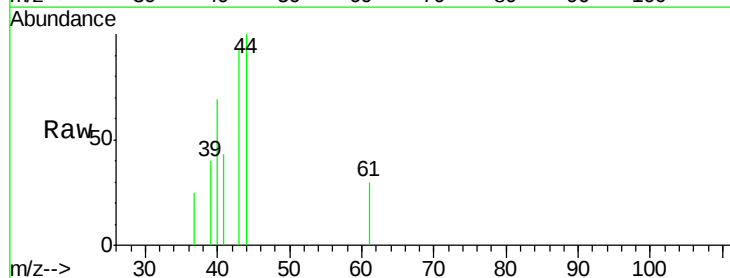
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.1 0.1#

61 3.6 15.0 22.4#

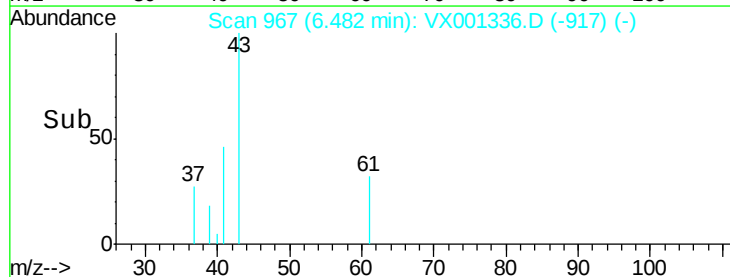
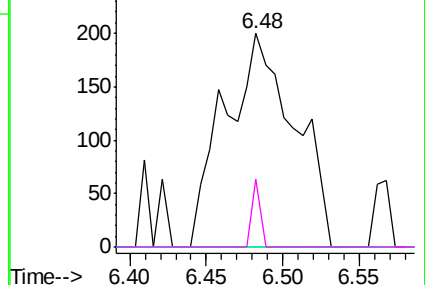


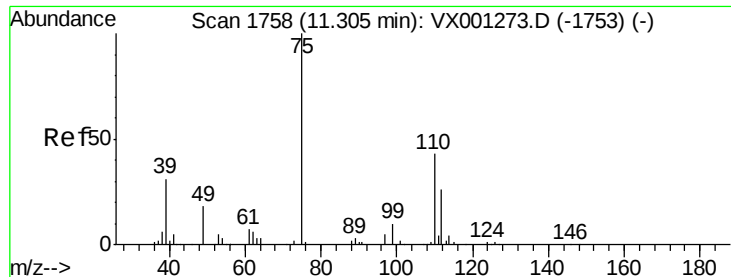
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

Instrument :

MSVOA\_X

ClientSampleId :

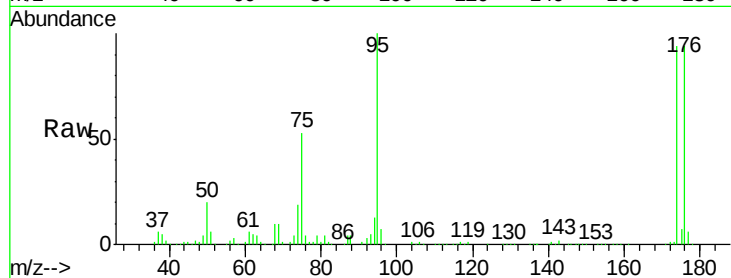
PB108794ZHE#15

Tgt Ion: 75 Resp: 47492

Ion Ratio Lower Upper

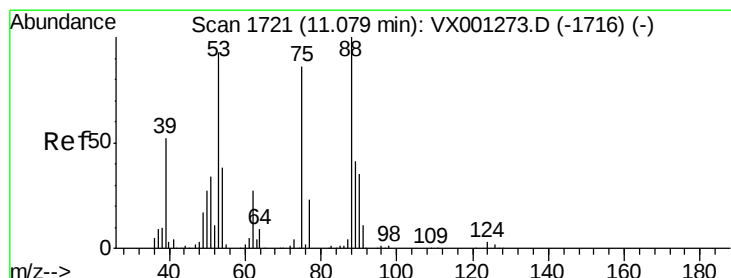
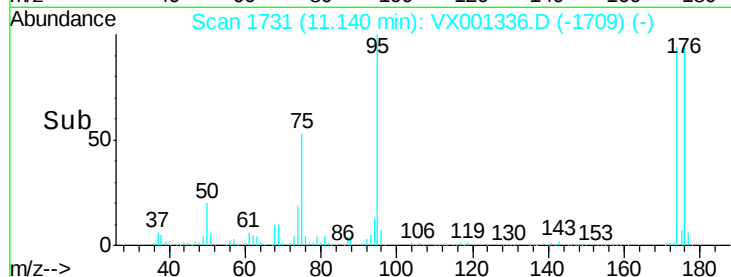
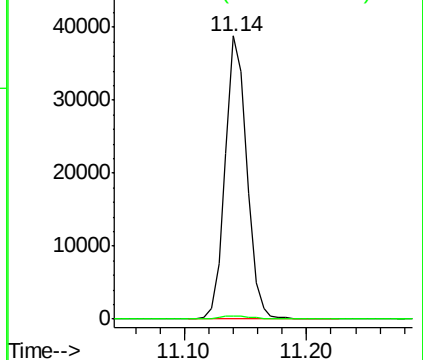
75 100

77 1.5 18.9 56.5#



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: 78.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001336.D

Acq: 03 May 2018 00:45

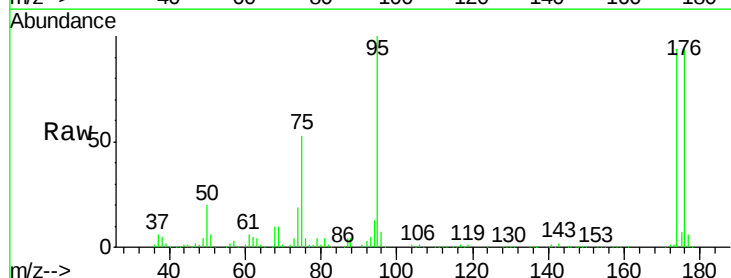
Tgt Ion: 75 Resp: 47492

Ion Ratio Lower Upper

75 100

53 0.0 87.1 130.7#

89 0.0 38.9 58.3#



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

