

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX041118\  
 Data File : VX000790.D  
 Acq On : 11 Apr 2018 20:11  
 Operator : JC/MD  
 Sample : J2304-12 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SP-1

Quant Time: Apr 12 07:08:38 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 300591   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 422028   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 390193   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 232296   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 153656   | 40.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.08% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 128518   | 39.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.06% |          |
| 50) Toluene-d8              | 8.72  | 98   | 481970   | 39.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.62% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 194917   | 38.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 77.82% |          |

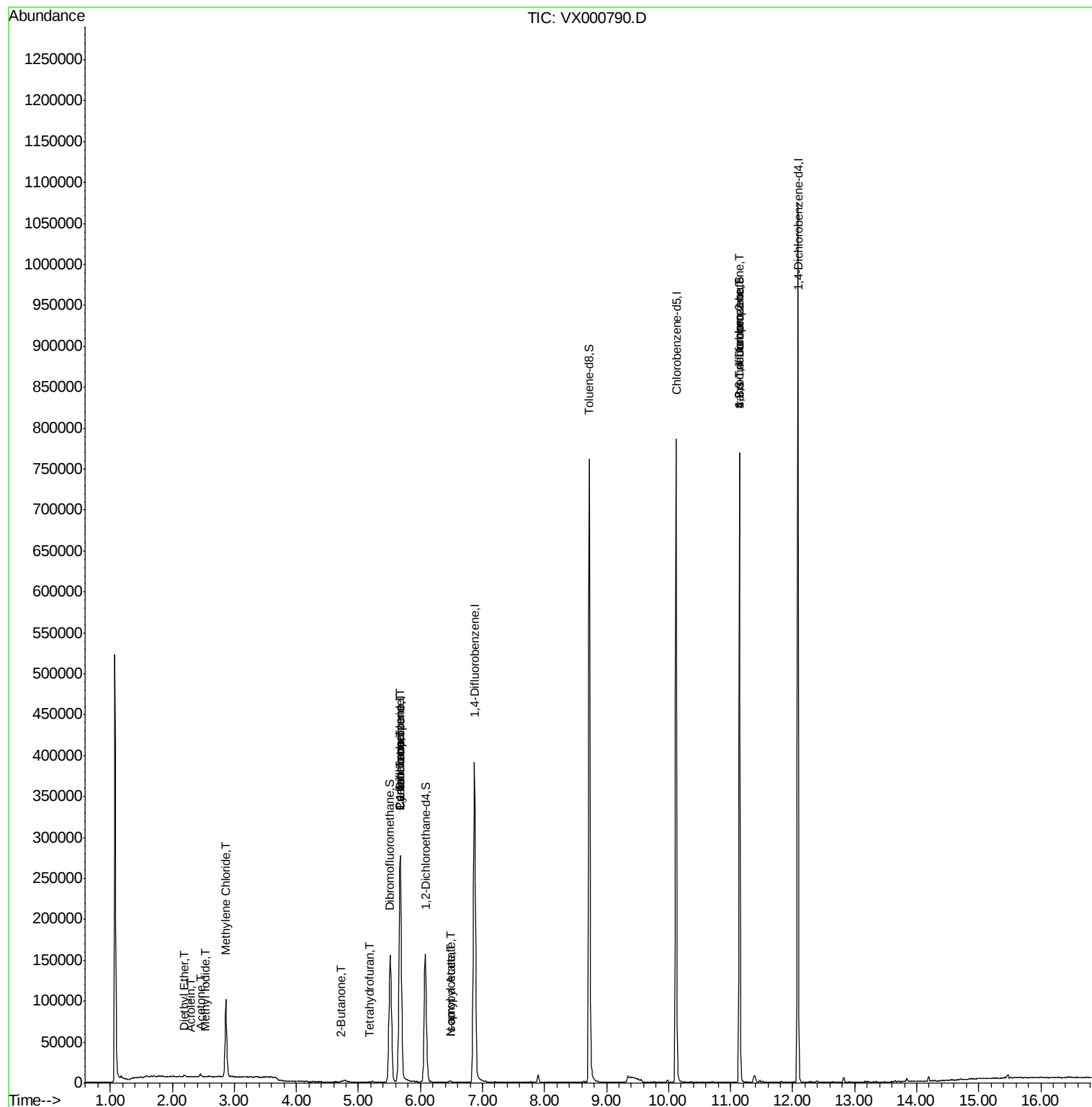
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.66  | 94   | 278      | Below Cal |        | 100    |
| 8) Diethyl Ether               | 2.19  | 74   | 811      | 0.44      | ug/l   | 93     |
| 10) Methyl Iodide              | 2.53  | 142  | 99       | 8.27      | ug/l # | 42     |
| 13) Acrolein                   | 2.30  | 56   | 127      | 0.39      | ug/l # | 38     |
| 16) Acetone                    | 2.45  | 43   | 3483     | 2.66      | ug/l   | 97     |
| 20) Methylene Chloride         | 2.86  | 84   | 45795    | 15.06     | ug/l   | 98     |
| 25) 2-Butanone                 | 4.72  | 43   | 775      | 0.36      | ug/l   | 98     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 605      | 0.44      | ug/l # | 43     |
| 31) Cyclohexane                | 5.67  | 56   | 5179     | 1.04      | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 18348    | 3.95      | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.68  | 117  | 25880    | 4.97      | ug/l # | 14     |
| 43) Isopropyl Acetate          | 6.48  | 43   | 2052     | 0.26      | ug/l # | 88     |
| 74) N-amyl acetate             | 6.48  | 43   | 2052     | 0.31      | ug/l # | 96     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 95273    | 23.78     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 95273    | 65.42     | ug/l # | 11     |

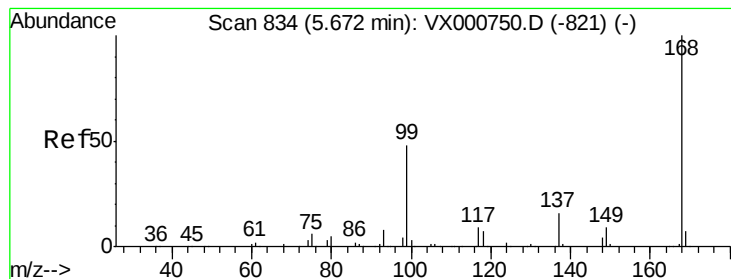
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
SP-1

Quant Time: Apr 12 07:08:38 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.01 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampled :

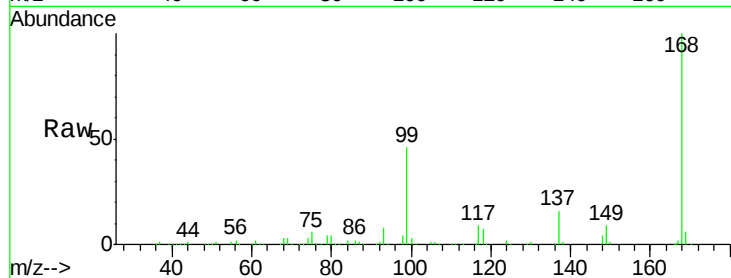
SP-1

Tgt Ion: 168 Resp: 300591

Ion Ratio Lower Upper

168 100

99 46.2 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

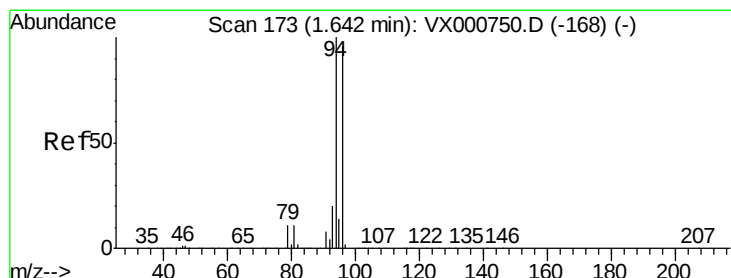
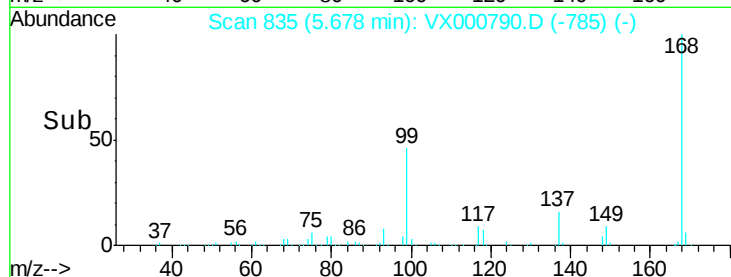
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000790.D

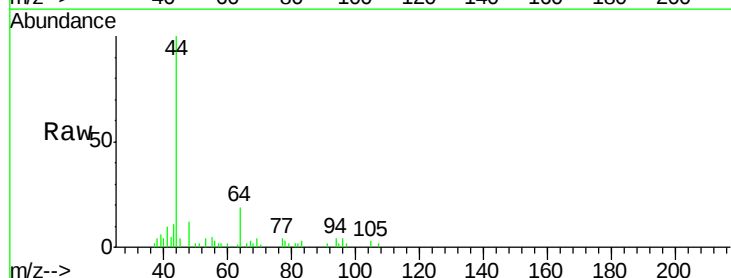
Acq: 11 Apr 2018 20:11

Tgt Ion: 94 Resp: 278

Ion Ratio Lower Upper

94 100

96 96.4 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

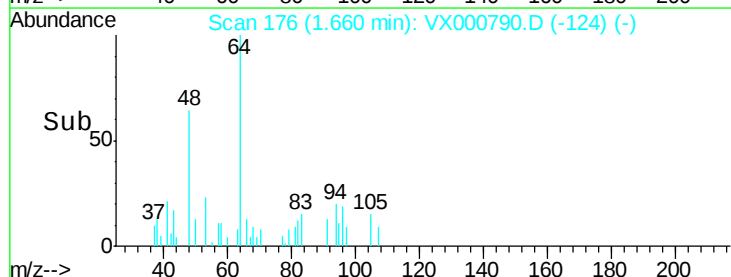
150

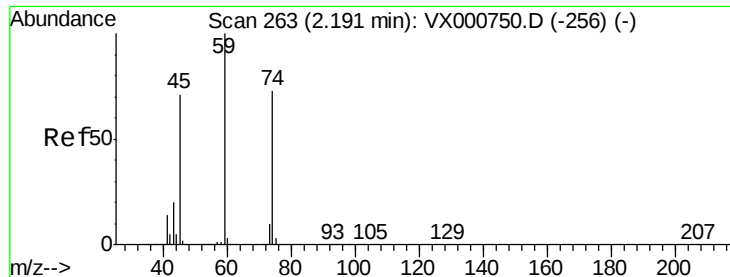
100

50

0

Time--> 1.62 1.64 1.66 1.68





#8

Diethyl Ether

Concen: 0.44 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampleId :

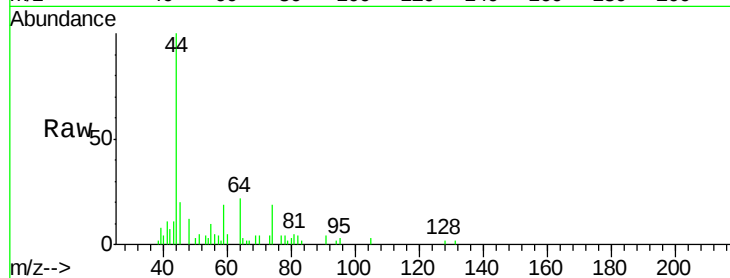
SP-1

Tgt Ion: 74 Resp: 811

Ion Ratio Lower Upper

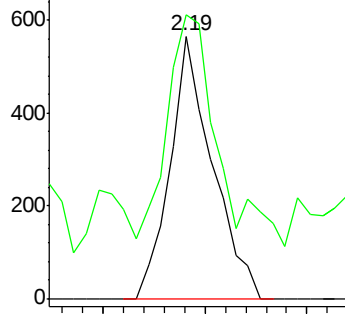
74 100

45 103.7 48.6 145.8

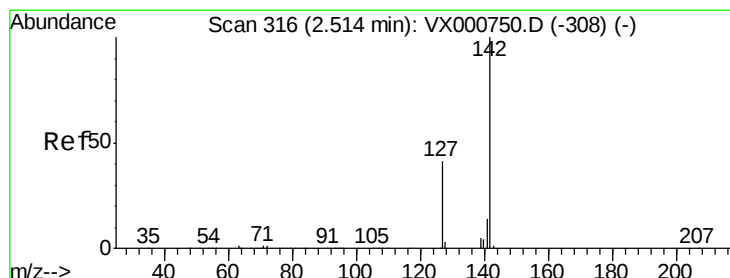
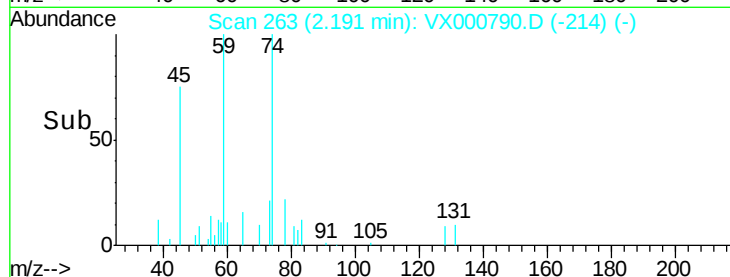


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 8.27 ug/l

RT: 2.53 min Scan# 319

Delta R.T. 0.02 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

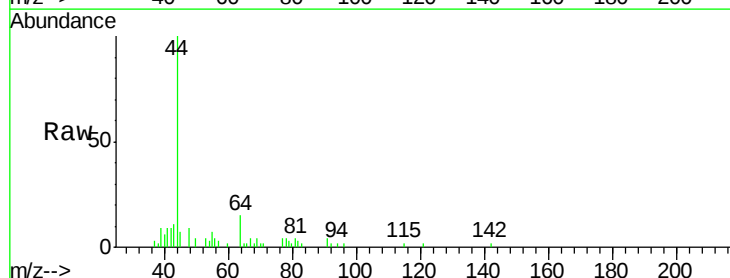
Tgt Ion: 142 Resp: 99

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

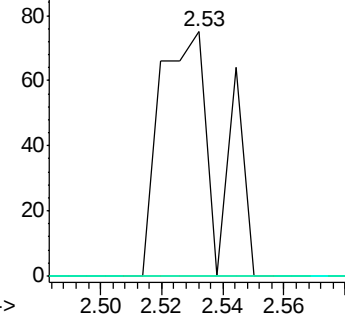
141 0.0 11.5 17.3#



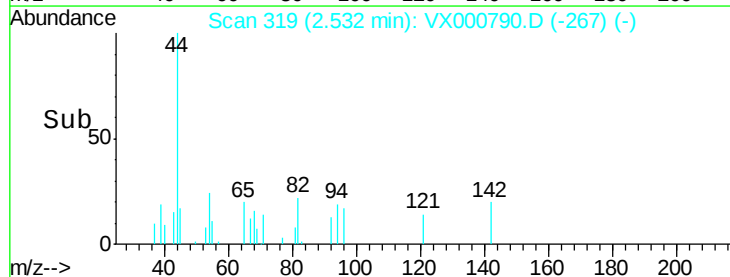
Abundance Ion 141.80 (141.50 to 142.50): V

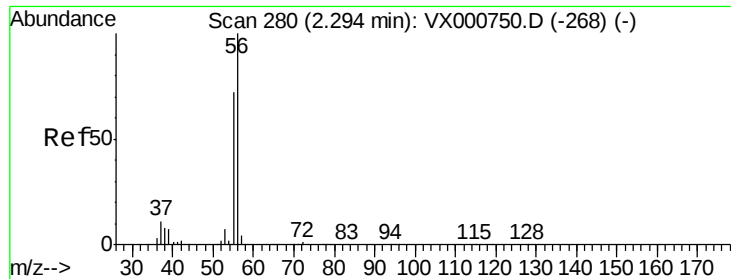
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#13

Acrolein

Concen: 0.39 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampleId :

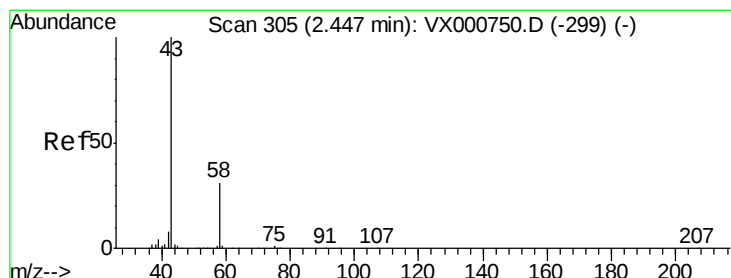
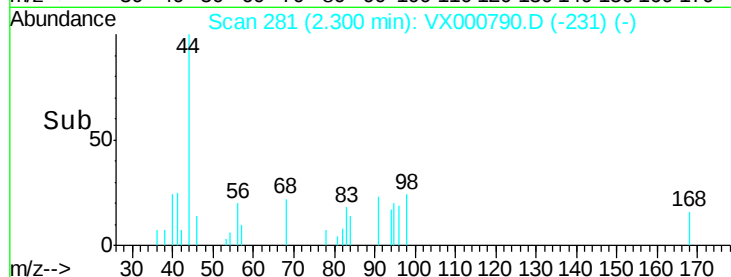
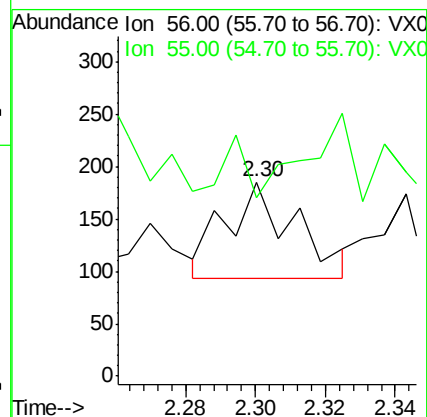
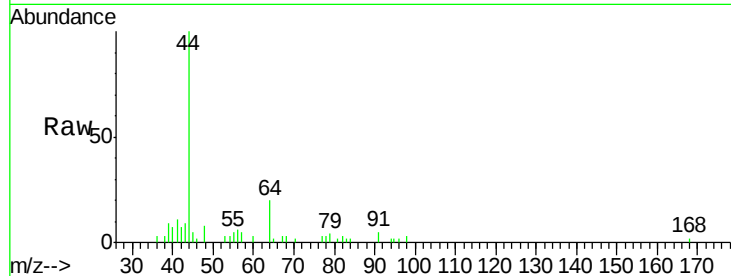
SP-1

Tgt Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 21.3 58.7 88.1#



#16

Acetone

Concen: 2.66 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000790.D

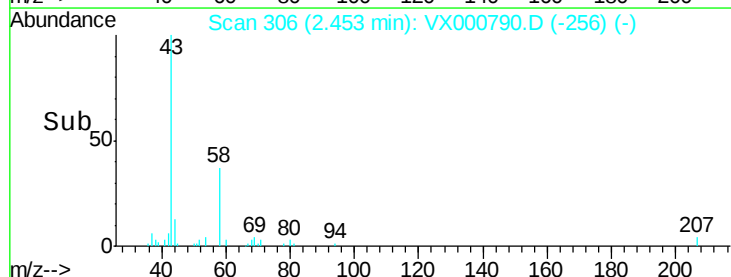
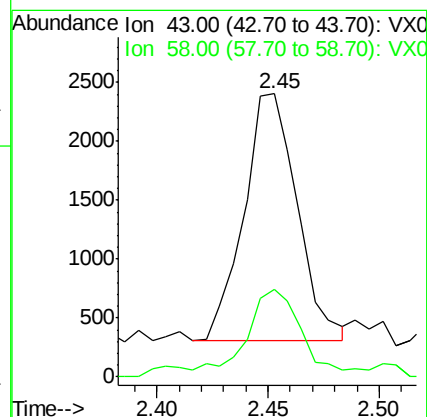
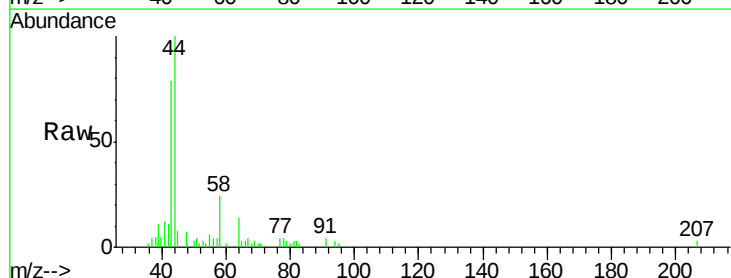
Acq: 11 Apr 2018 20:11

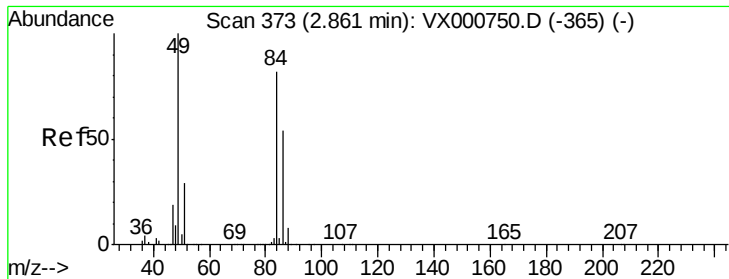
Tgt Ion: 43 Resp: 3483

Ion Ratio Lower Upper

43 100

58 32.6 24.6 37.0





#20

Methylene Chloride

Concen: 15.06 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampled :

SP-1

Tgt Ion: 84 Resp: 45795

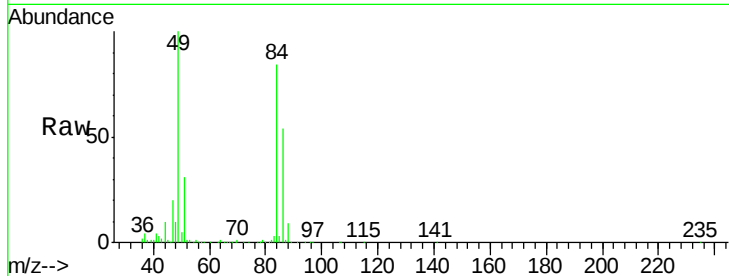
Ion Ratio Lower Upper

84 100

49 119.2 98.1 147.1

51 36.0 28.9 43.3

86 64.6 52.7 79.1

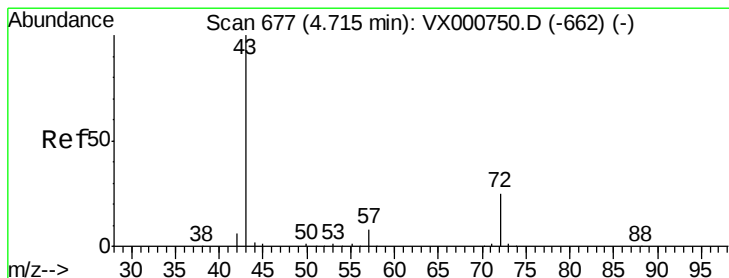
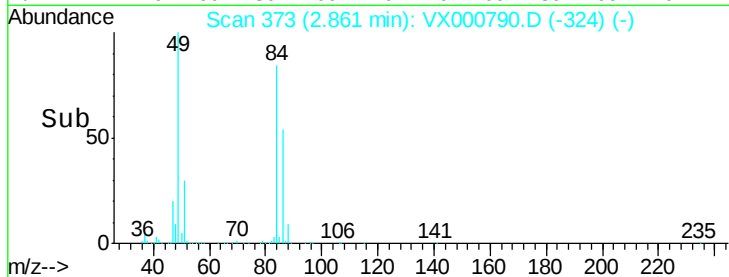
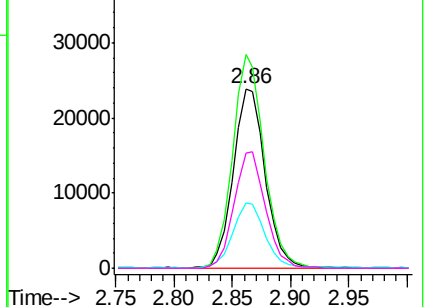


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000790.D

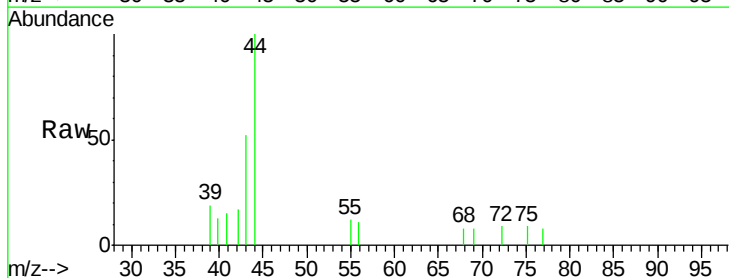
Acq: 11 Apr 2018 20:11

Tgt Ion: 43 Resp: 775

Ion Ratio Lower Upper

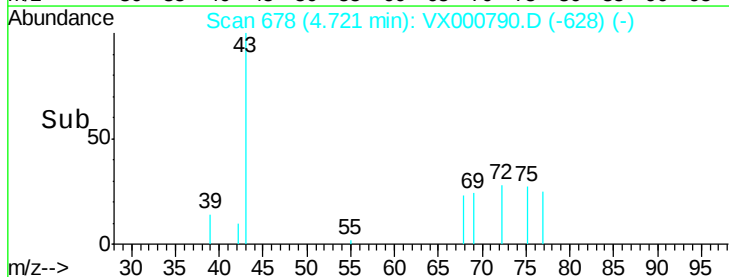
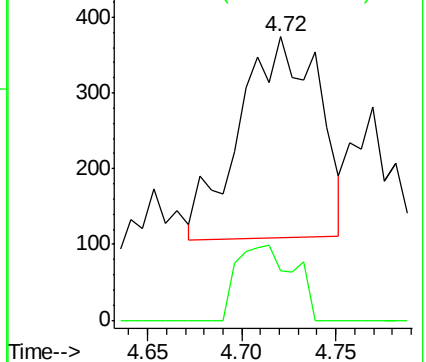
43 100

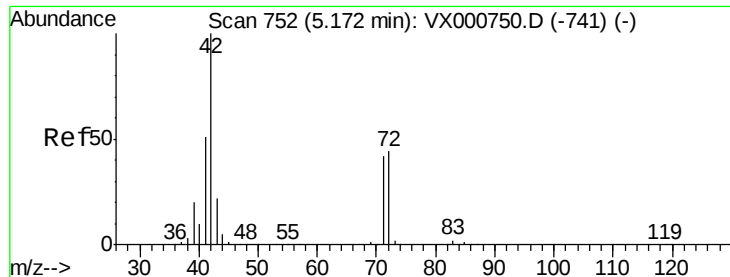
72 26.6 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.44 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampled :

SP-1

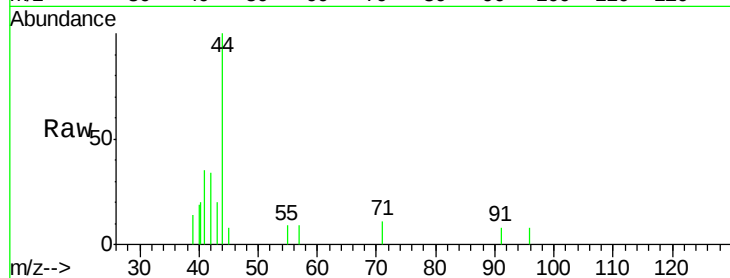
Tgt Ion: 42 Resp: 605

Ion Ratio Lower Upper

42 100

72 0.0 35.1 52.7#

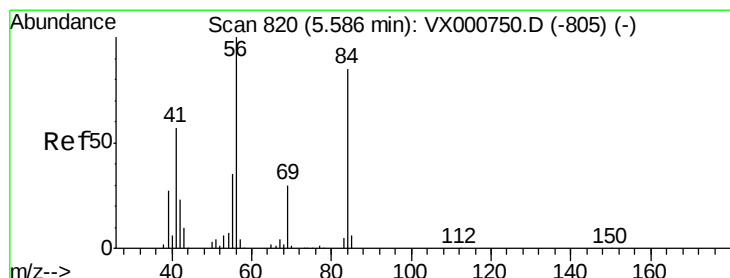
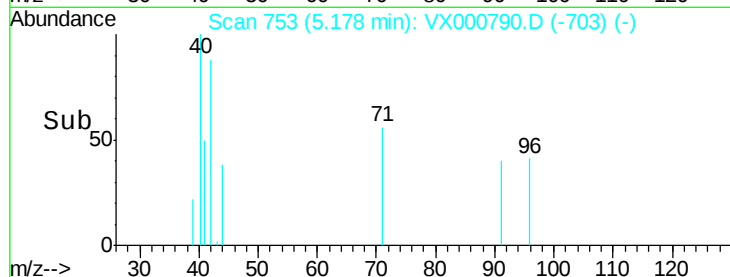
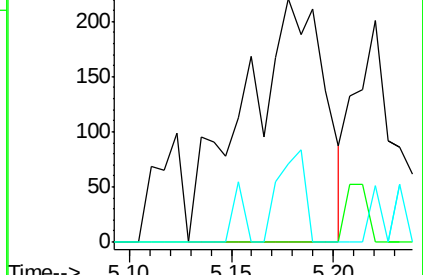
71 12.7 32.8 49.2#



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



#31

Cyclohexane

Concen: 1.04 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

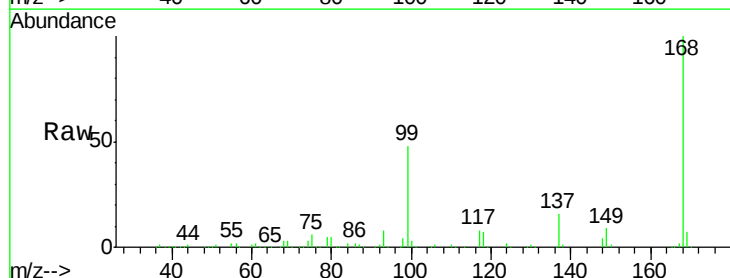
Tgt Ion: 56 Resp: 5179

Ion Ratio Lower Upper

56 100

69 173.1 24.2 36.4#

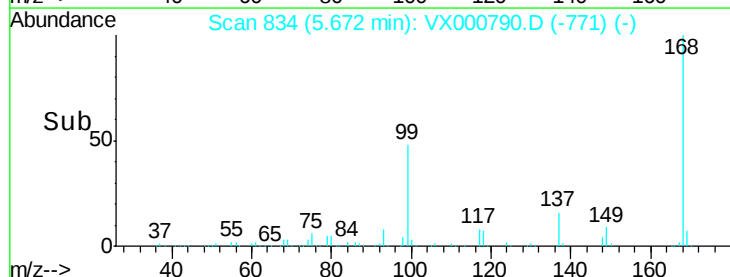
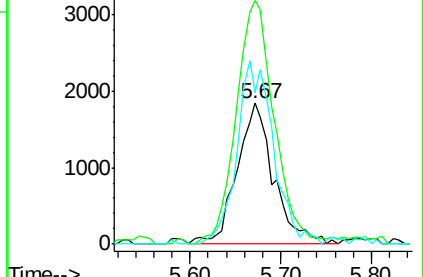
84 107.3 67.6 101.4#

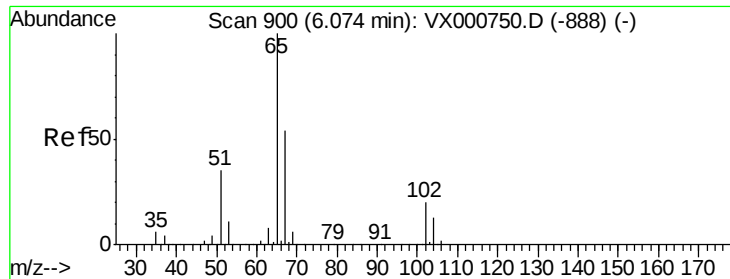


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 40.54 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampleId :

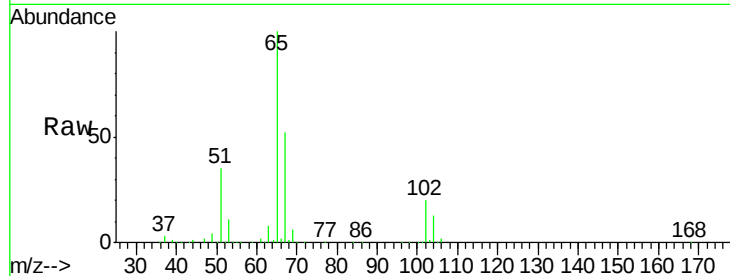
SP-1

Tgt Ion: 65 Resp: 153656

Ion Ratio Lower Upper

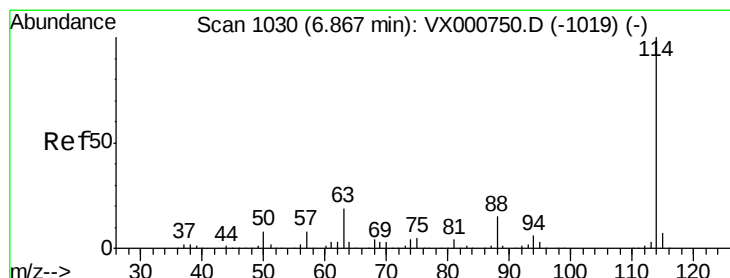
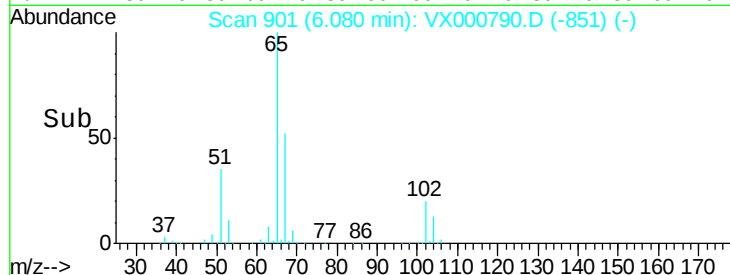
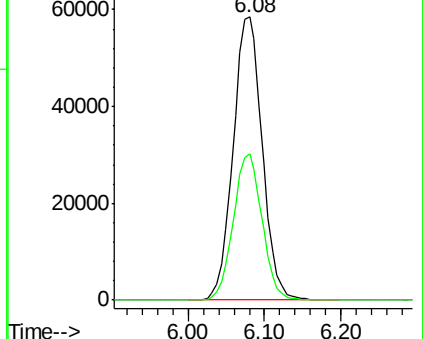
65 100

67 51.0 0.0 103.8



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: VX000790.D

Acq: 11 Apr 2018 20:11

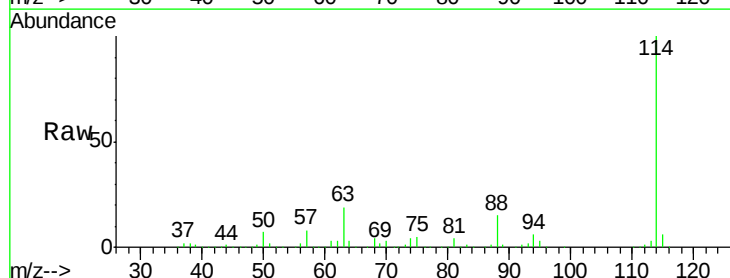
Tgt Ion: 114 Resp: 422028

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.4

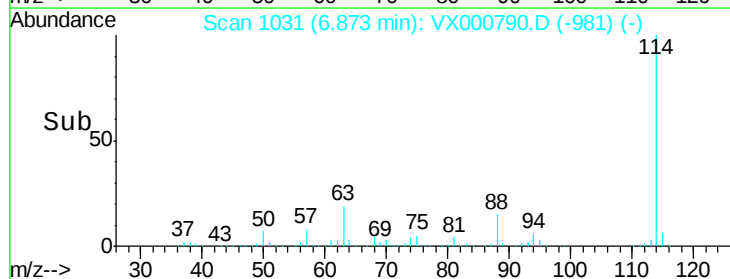
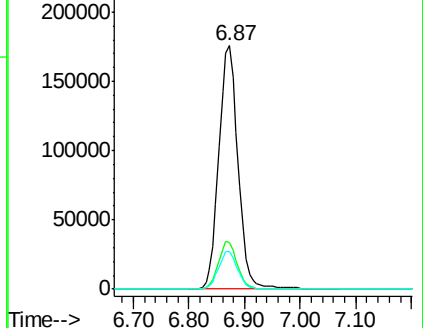
88 15.3 0.0 31.0

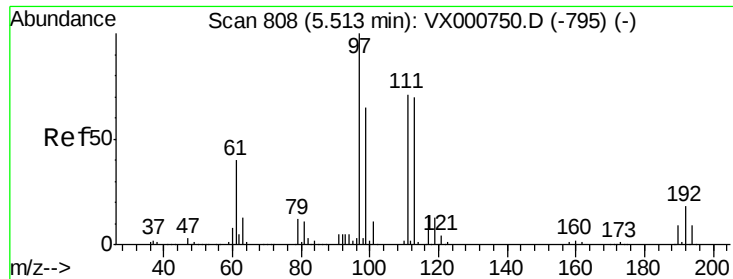


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

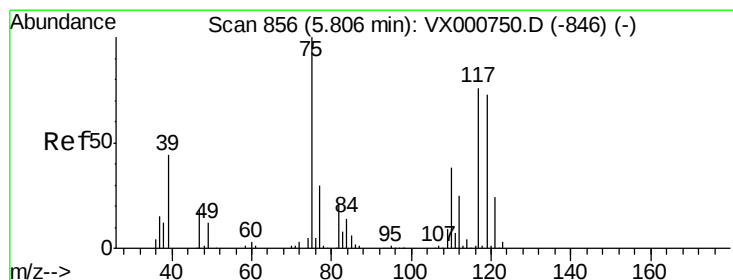
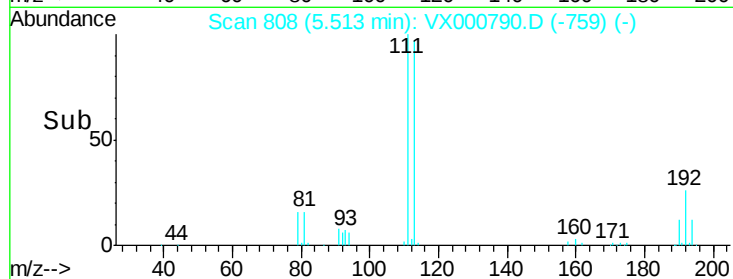
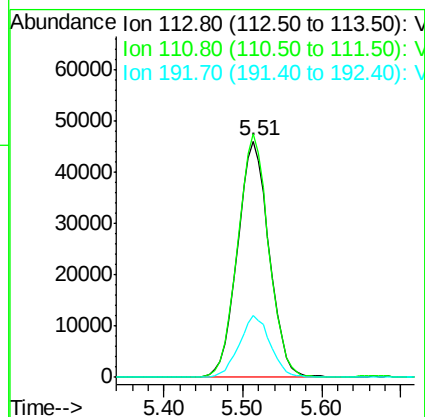
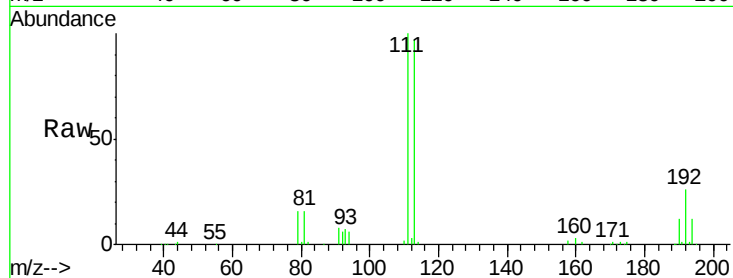




#35  
 Dibromofluoromethane  
 Concen: 39.53 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX000790.D  
 Acq: 11 Apr 2018 20:11

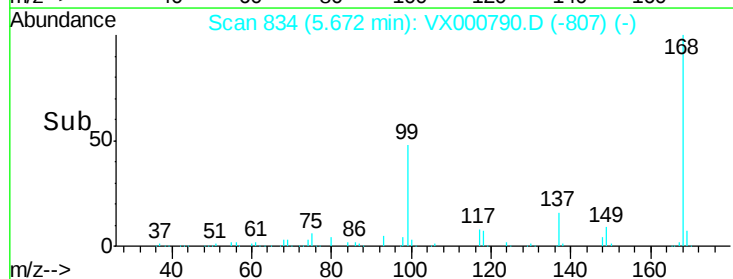
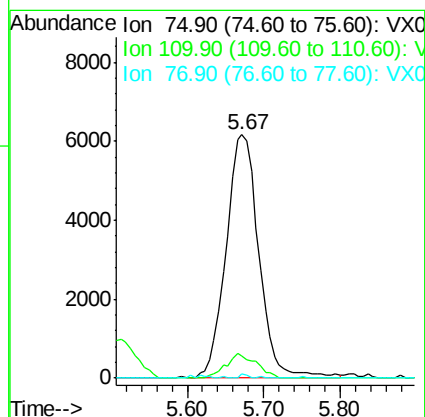
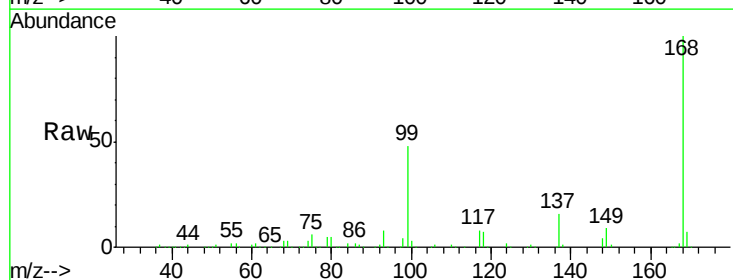
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SP-1

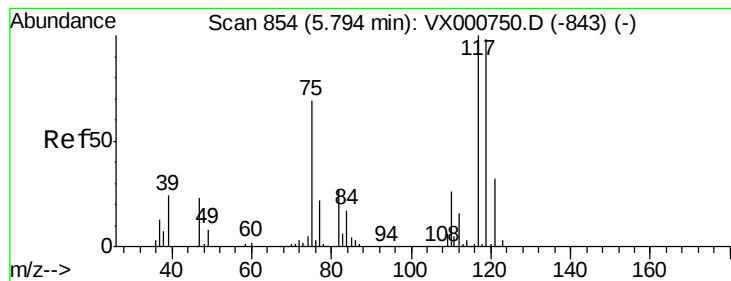
Tgt Ion:113 Resp: 128518  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 81.5 122.3  
 192 25.8 20.4 30.6



#36  
 1,1-Dichloropropene  
 Concen: 3.95 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX000790.D  
 Acq: 11 Apr 2018 20:11

Tgt Ion: 75 Resp: 18348  
 Ion Ratio Lower Upper  
 75 100  
 110 9.3 19.2 57.6#  
 77 0.4 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 4.97 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampled :

SP-1

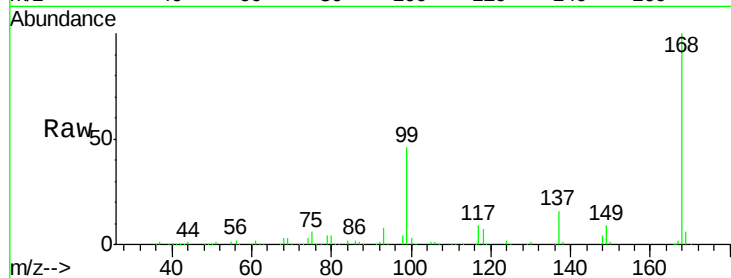
Tgt Ion: 117 Resp: 25880

Ion Ratio Lower Upper

117 100

119 3.9 78.4 117.6#

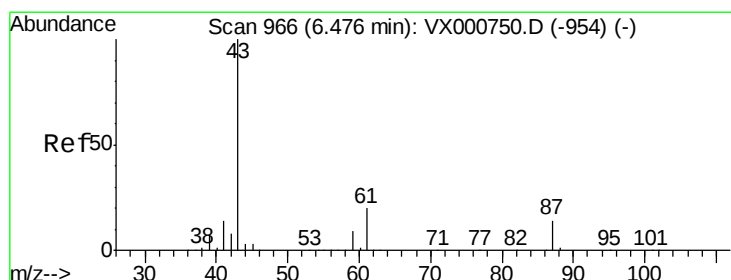
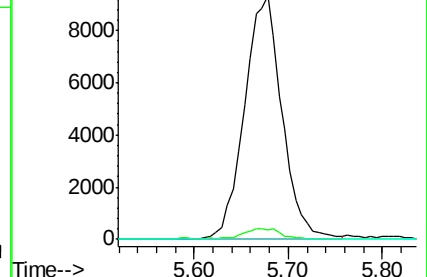
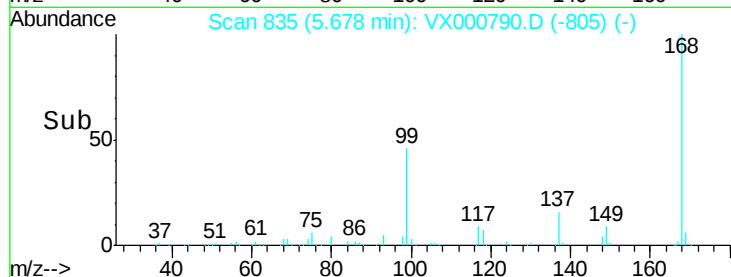
121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.26 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

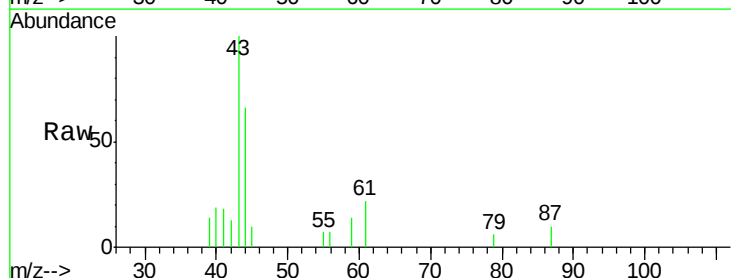
Tgt Ion: 43 Resp: 2052

Ion Ratio Lower Upper

43 100

61 17.9 15.6 23.4

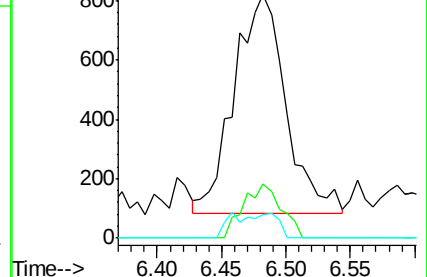
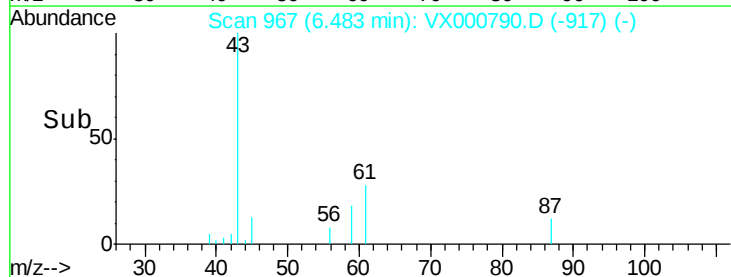
87 4.0 10.7 16.1#

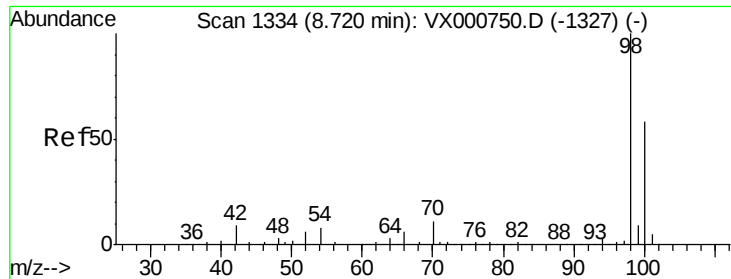


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

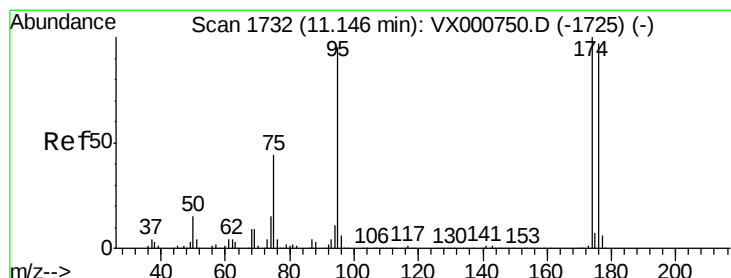
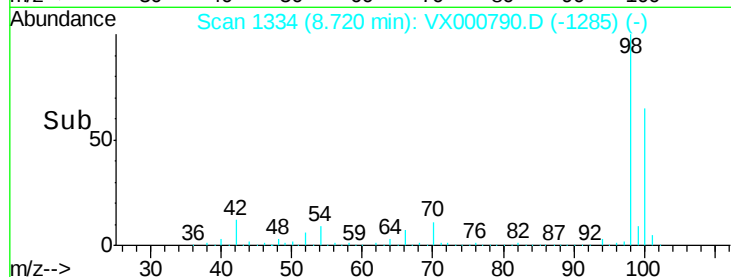
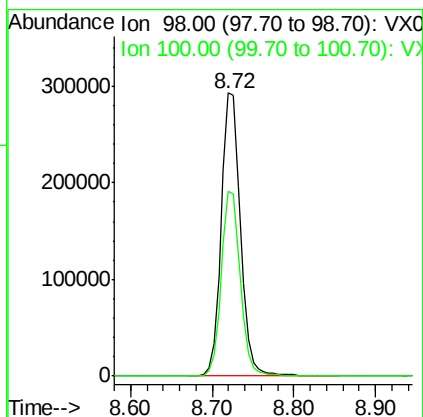
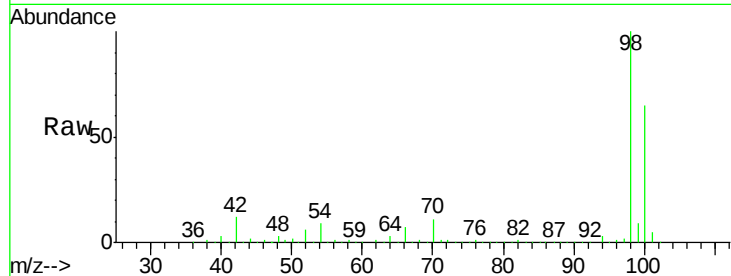




#50  
Toluene-d8  
Concen: 39.81 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX000790.D  
Acq: 11 Apr 2018 20:11

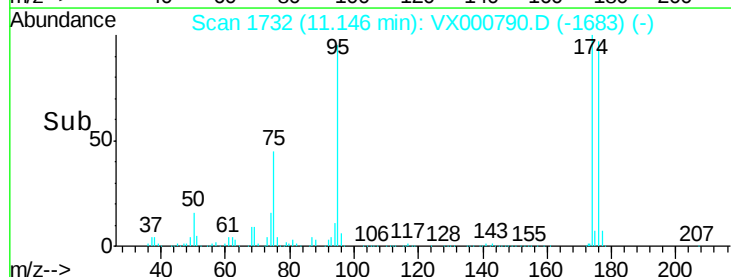
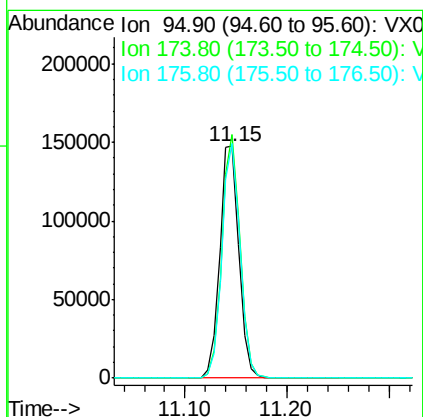
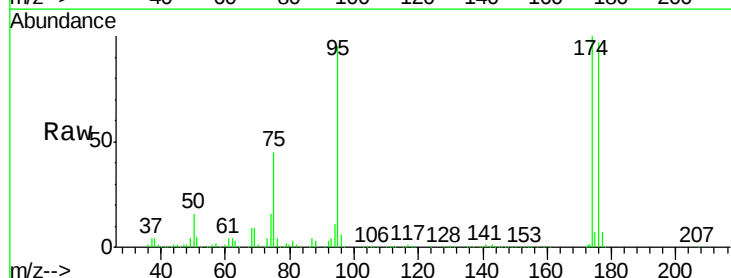
Instrument :  
MSVOA\_X  
ClientSampleId :  
SP-1

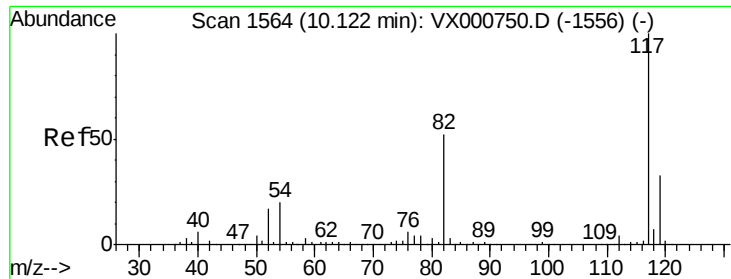
Tgt Ion: 98 Resp: 481970  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.6 79.0



#62  
4-Bromofluorobenzene  
Concen: 38.91 ug/l  
RT: 11.15 min Scan# 1732  
Delta R.T. -0.00 min  
Lab File: VX000790.D  
Acq: 11 Apr 2018 20:11

Tgt Ion: 95 Resp: 194917  
Ion Ratio Lower Upper  
95 100  
174 98.6 0.0 198.4  
176 95.6 0.0 194.4

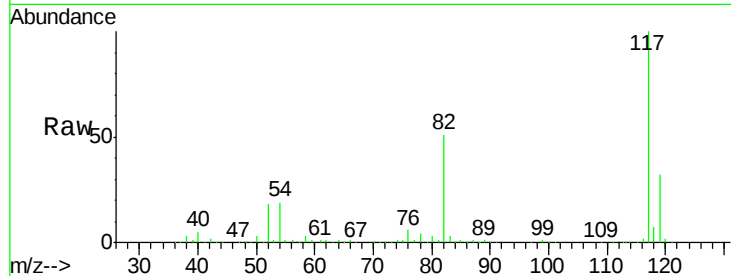




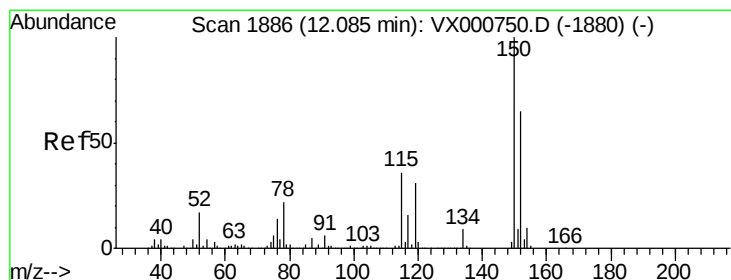
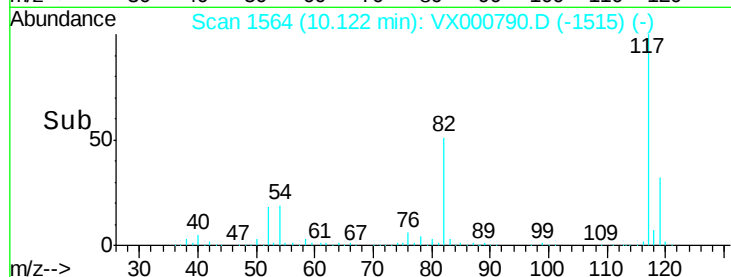
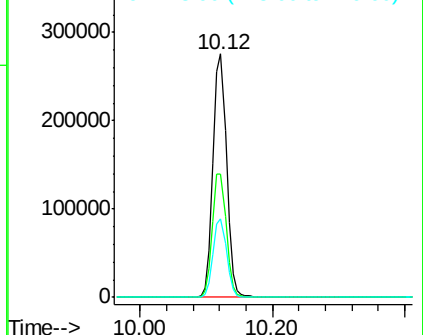
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000790.D  
Acq: 11 Apr 2018 20:11

Instrument :  
MSVOA\_X  
ClientSampleId :  
SP-1

Tgt Ion:117 Resp: 390193  
Ion Ratio Lower Upper  
117 100  
82 50.9 41.9 62.9  
119 32.3 26.0 39.0

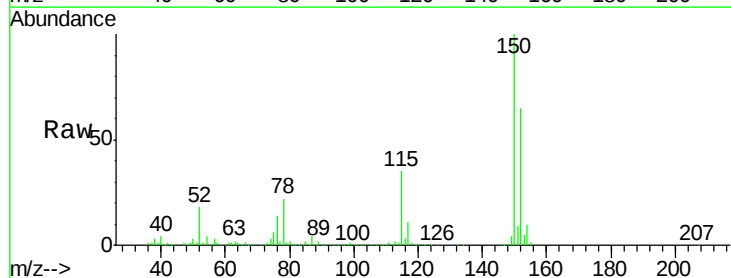


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

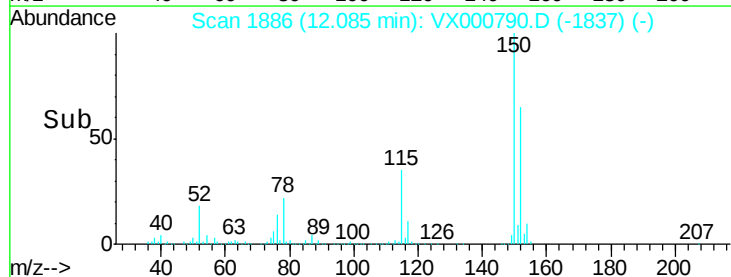
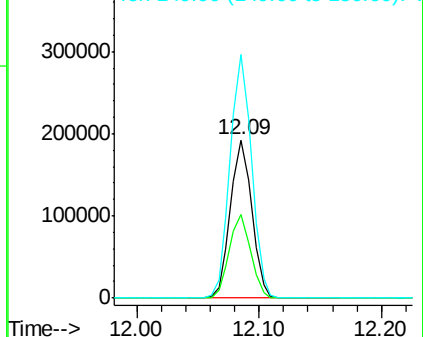


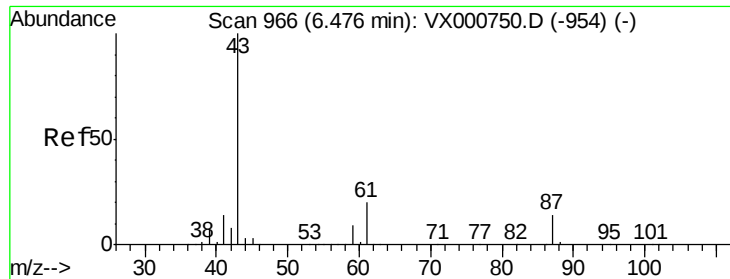
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX000790.D  
Acq: 11 Apr 2018 20:11

Tgt Ion:152 Resp: 232296  
Ion Ratio Lower Upper  
152 100  
115 53.1 37.9 113.7  
150 154.6 0.0 348.0



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-amyI acetate

Concen: 0.31 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampled :

SP-1

Tgt Ion: 43 Resp: 2052

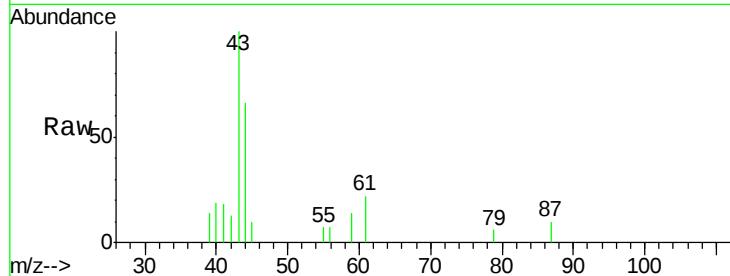
Ion Ratio Lower Upper

43 100

70 1.0 0.0 0.0#

55 7.3 0.0 0.0#

61 17.9 15.6 23.4

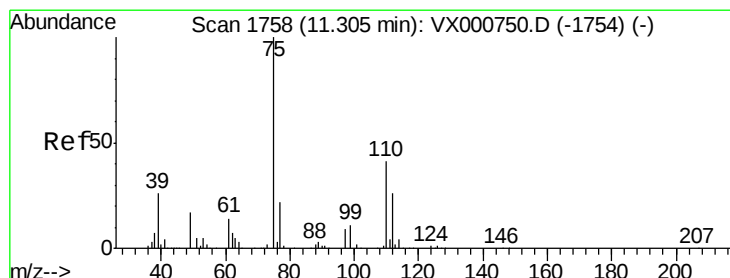
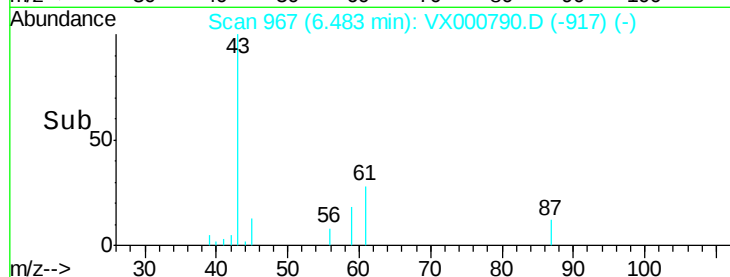
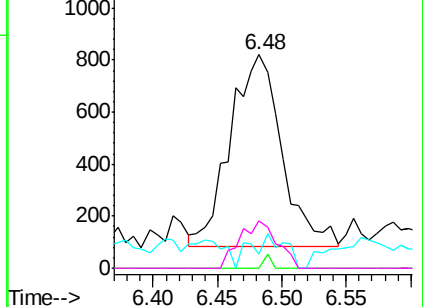


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000790.D

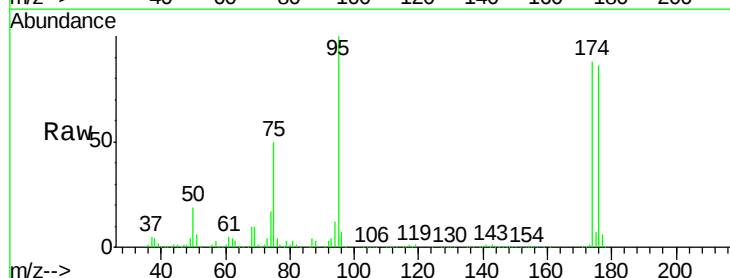
Acq: 11 Apr 2018 20:11

Tgt Ion: 75 Resp: 95273

Ion Ratio Lower Upper

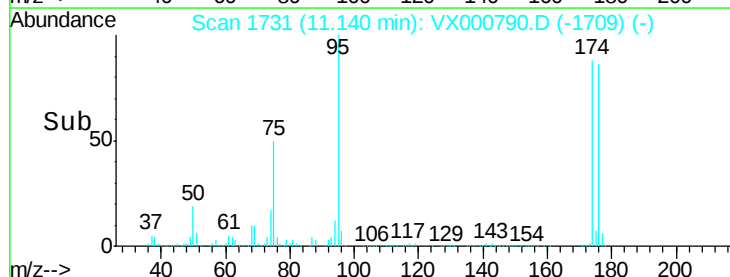
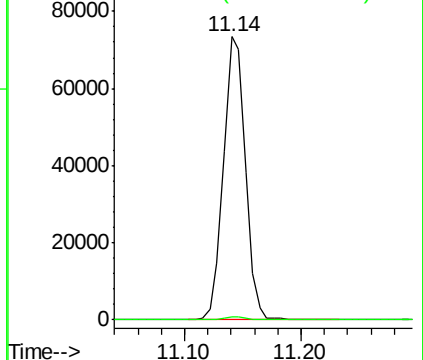
75 100

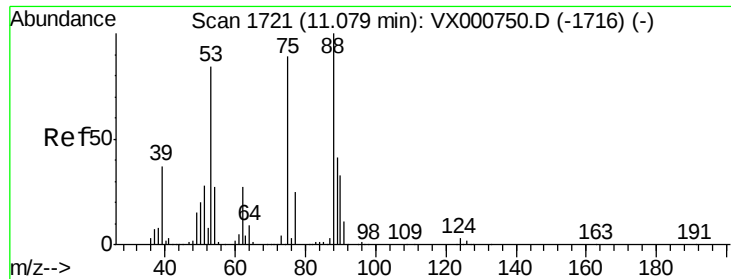
77 1.2 20.5 61.5#



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: 65.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000790.D

Acq: 11 Apr 2018 20:11

Instrument :

MSVOA\_X

ClientSampleId :

SP-1

Tgt Ion: 75 Resp: 95273

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#

