

Data File : VX001324.D

Acq On : 02 May 2018 18:27

Operator : JC/MD

Sample : J2628-02

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 17 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

Quant Time: May 03 05:05:27 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  | 147597   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 192420   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 164084   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 85159    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.08   | 65  | 89846    | 43.97 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.94% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 73131    | 44.11 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.22% |      |
| 50) Toluene-d8            | 8.72   | 98  | 264784   | 44.71 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.42% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 79913    | 33.74 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 67.48% |      |

## Target Compounds

|                                |       |     |       |       |      | Qvalue |
|--------------------------------|-------|-----|-------|-------|------|--------|
| 3) Chloromethane               | 1.32  | 50  | 334   | 0.21  | ug/l | # 68   |
| 5) Bromomethane                | 1.65  | 94  | 682   | Below | Cal  | # 73   |
| 10) Methyl Iodide              | 2.52  | 142 | 1003  | 4.84  | ug/l | # 93   |
| 11) Tert butyl alcohol         | 3.09  | 59  | 90    | 0.26  | ug/l | # 72   |
| 13) Acrolein                   | 2.26  | 56  | 79    | 0.39  | ug/l | # 1    |
| 15) Acrylonitrile              | 3.16  | 53  | 256   | 0.31  | ug/l | # 57   |
| 16) Acetone                    | 2.45  | 43  | 9754  | 11.18 | ug/l | 100    |
| 20) Methylene Chloride         | 2.86  | 84  | 1115  | Below | Cal  | # 95   |
| 25) 2-Butanone                 | 4.75  | 43  | 284   | 0.24  | ug/l | # 49   |
| 29) Tetrahydrofuran            | 5.18  | 42  | 174   | 0.24  | ug/l | # 85   |
| 31) Cyclohexane                | 5.67  | 56  | 2951  | 1.18  | ug/l | # 1    |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 8837  | 3.98  | ug/l | # 49   |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 12122 | 5.21  | ug/l | # 18   |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 40981 | 26.02 | ug/l | # 40   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 40981 | 81.69 | ug/l | # 6    |

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

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Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

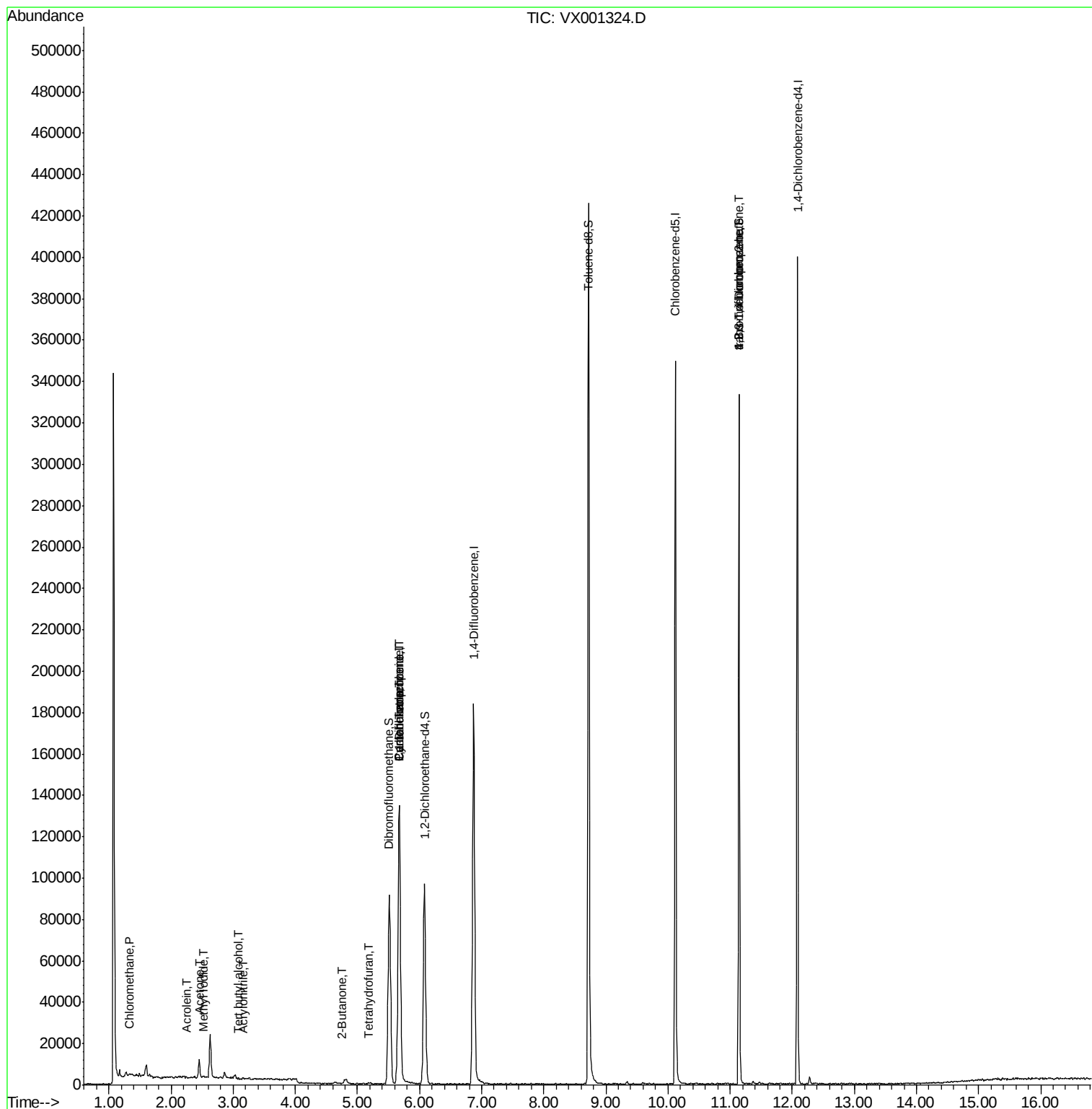
Quant Time: May 03 05:05:27 2018

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: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

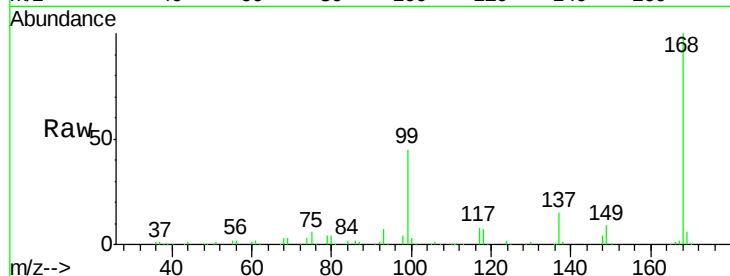
STORAGEBLANK-WATERREF-5

Tgt Ion:168 Resp: 147597

Ion Ratio Lower Upper

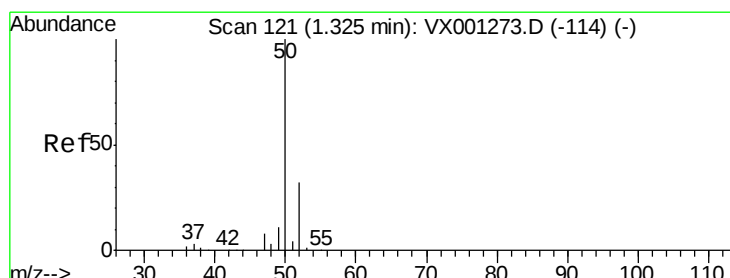
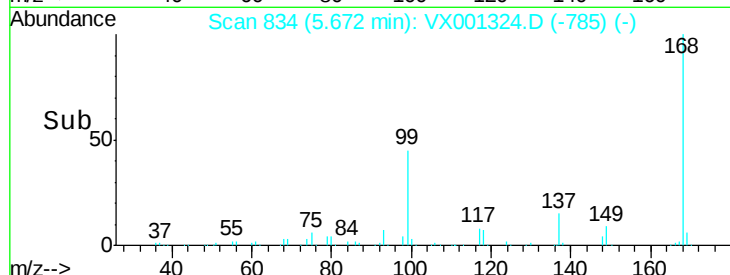
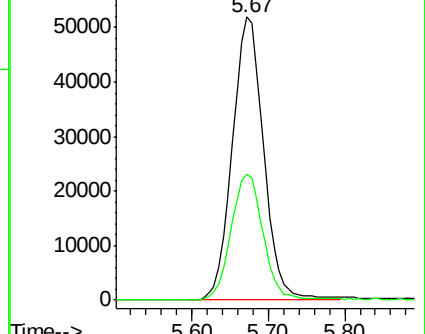
168 100

99 44.7 36.5 54.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001324.D

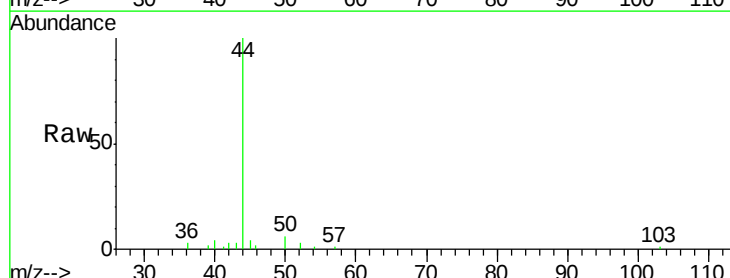
Acq: 02 May 2018 18:27

Tgt Ion: 50 Resp: 334

Ion Ratio Lower Upper

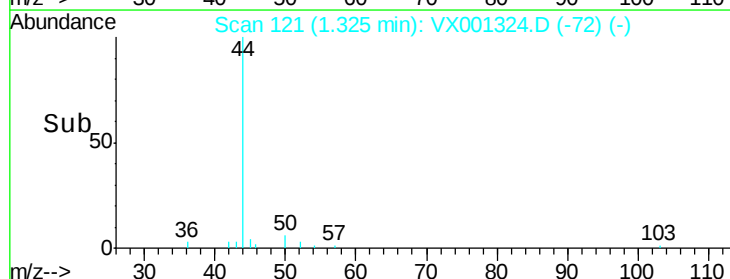
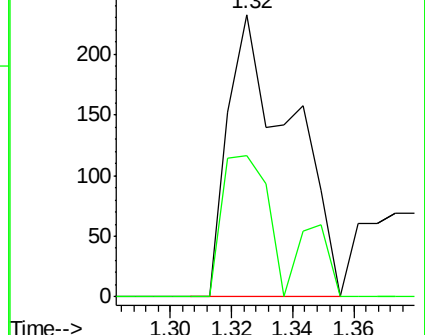
50 100

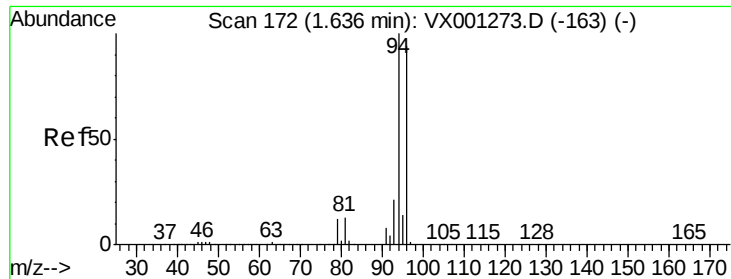
52 50.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

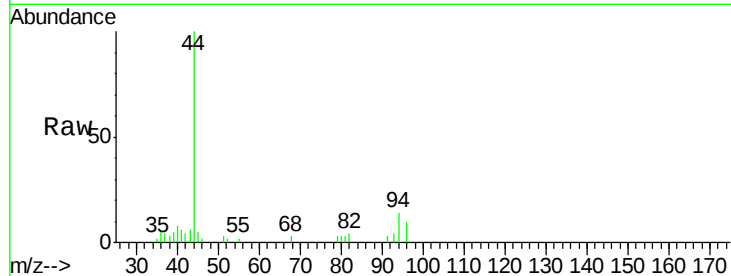
STORAGEBLANK-WATERREF-5

Tgt Ion: 94 Resp: 682

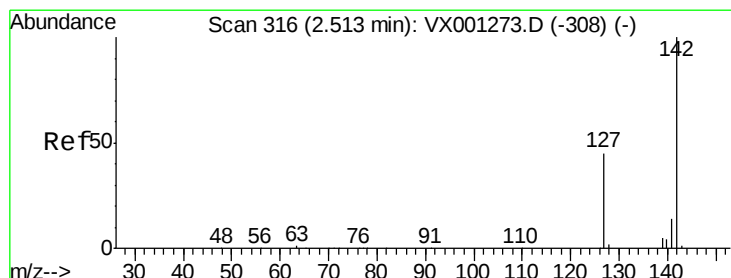
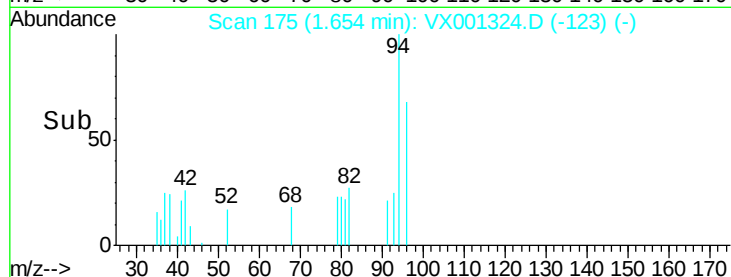
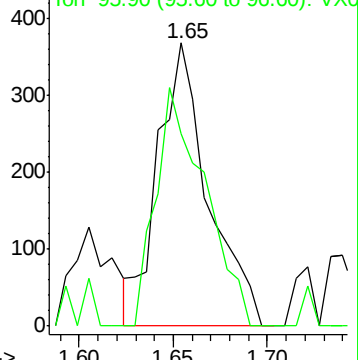
Ion Ratio Lower Upper

94 100

96 68.2 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX001273.D (-163) (-)



#10

Methyl Iodide

Concen: 4.84 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

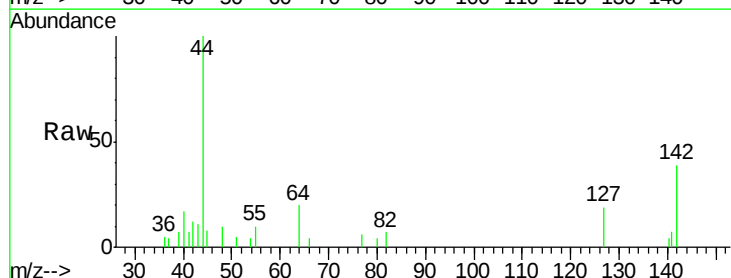
Tgt Ion: 142 Resp: 1003

Ion Ratio Lower Upper

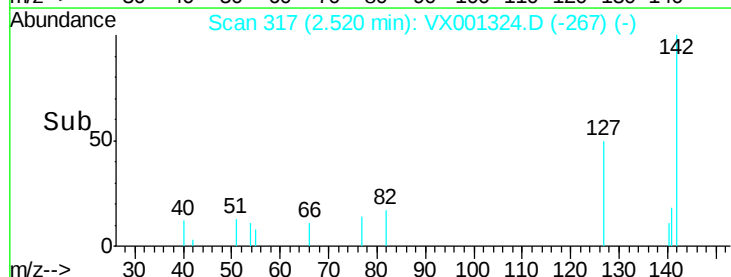
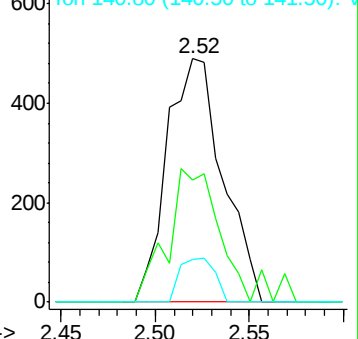
142 100

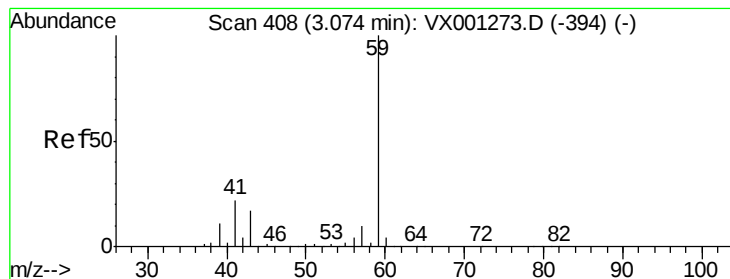
127 49.3 35.7 53.5

141 11.3 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VX001273.D (-308) (-)



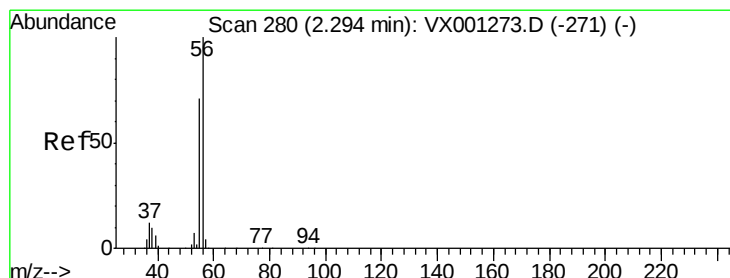
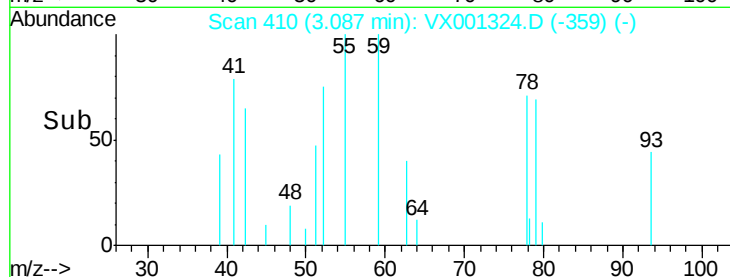
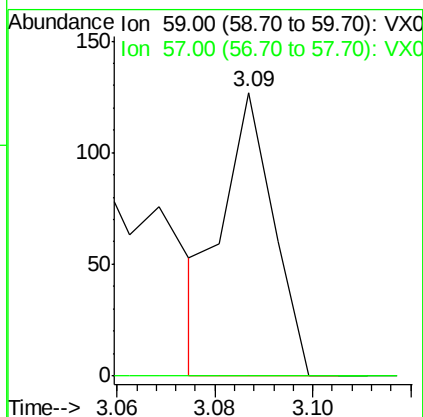
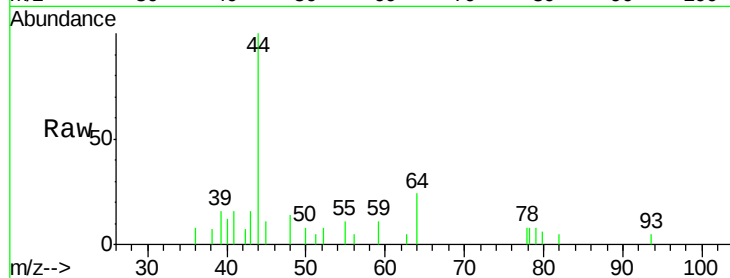


#11

Tert butyl alcohol  
Concen: 0.26 ug/l  
RT: 3.09 min Scan# 410  
Delta R.T. 0.01 min  
Lab File: VX001324.D  
Acq: 02 May 2018 18:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGEBLANK-WATERREF-5

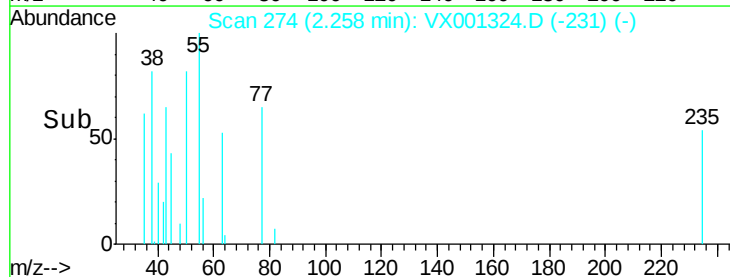
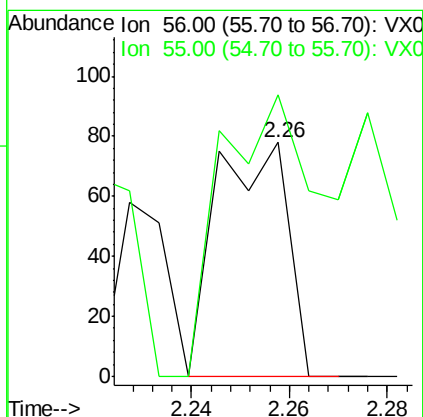
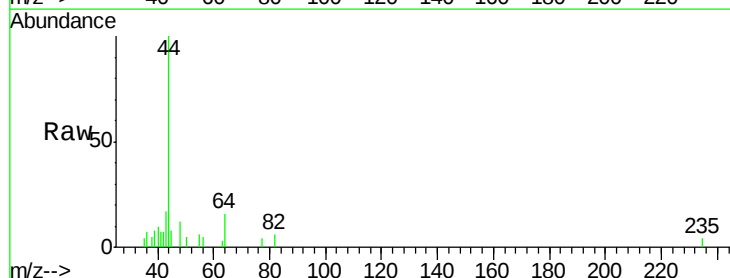
Tgt Ion: 59 Resp: 90  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#

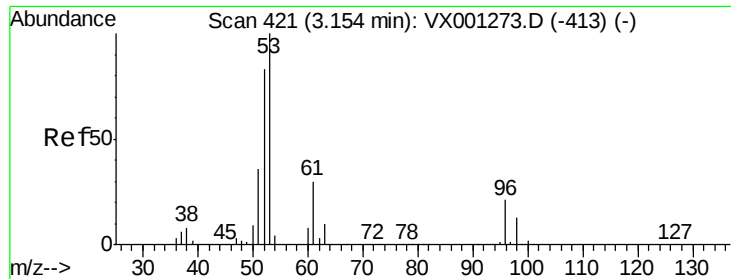


#13

Acrolein  
Concen: 0.39 ug/l  
RT: 2.26 min Scan# 274  
Delta R.T. -0.04 min  
Lab File: VX001324.D  
Acq: 02 May 2018 18:27

Tgt Ion: 56 Resp: 79  
Ion Ratio Lower Upper  
56 100  
55 170.9 57.2 85.8#





#15

Acrylonitrile

Concen: 0.31 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

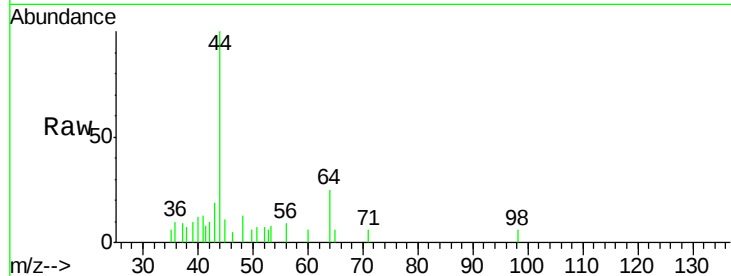
Tgt Ion: 53 Resp: 256

Ion Ratio Lower Upper

53 100

52 44.1 67.0 100.4#

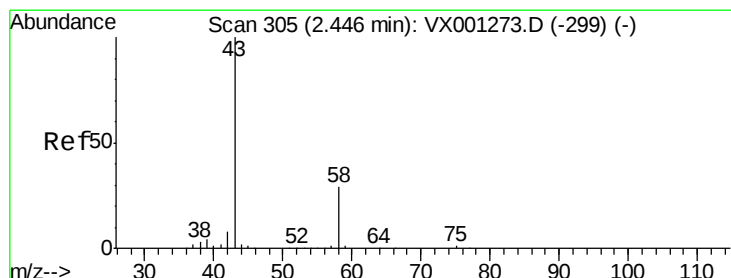
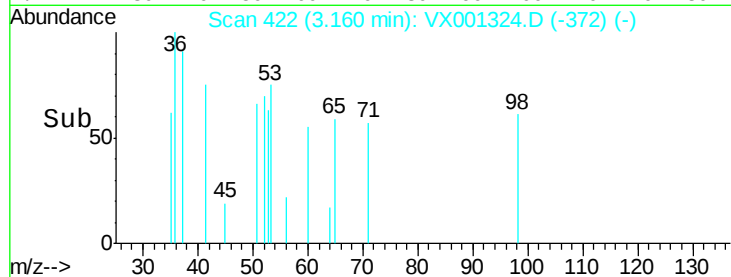
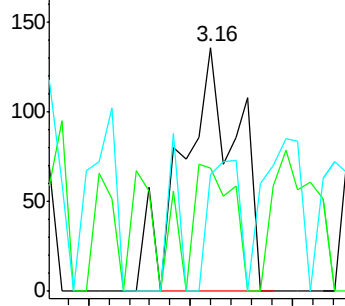
51 12.5 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 11.18 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001324.D

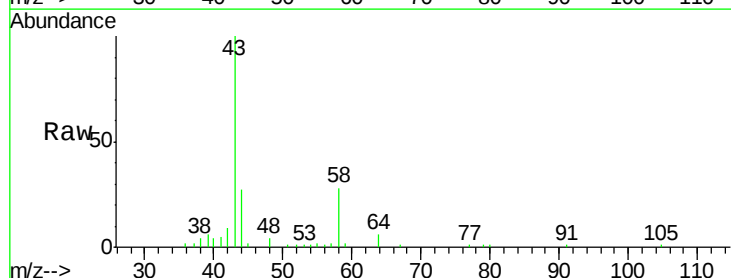
Acq: 02 May 2018 18:27

Tgt Ion: 43 Resp: 9754

Ion Ratio Lower Upper

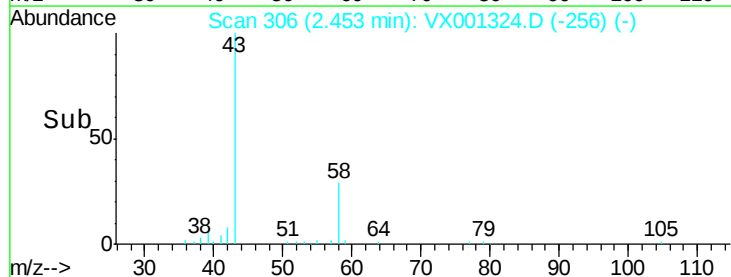
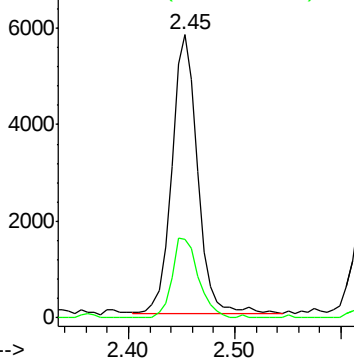
43 100

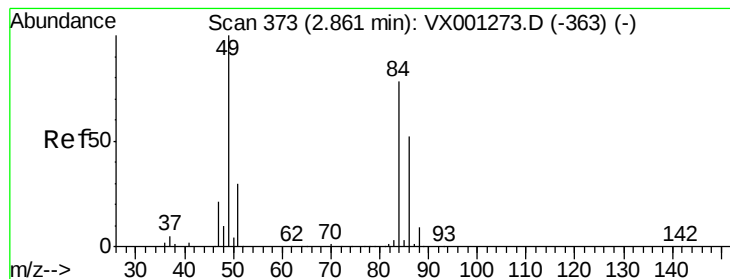
58 28.4 22.8 34.2



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: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

Tgt Ion: 84 Resp: 1115

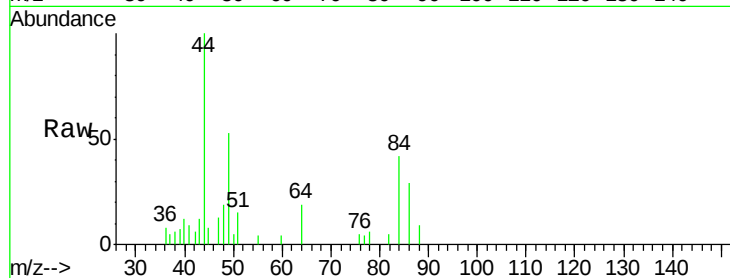
Ion Ratio Lower Upper

84 100

49 128.0 102.8 154.2

51 24.1 30.9 46.3#

86 69.1 53.0 79.4

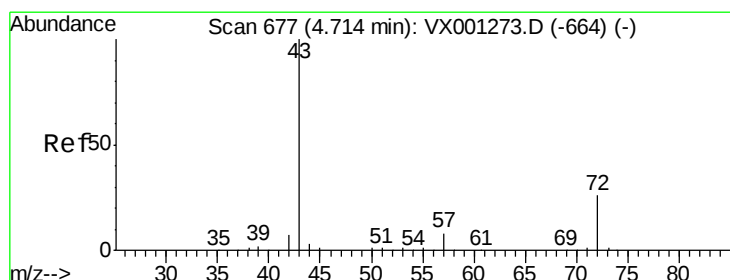
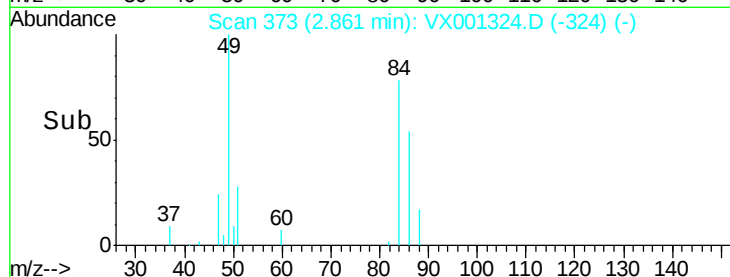
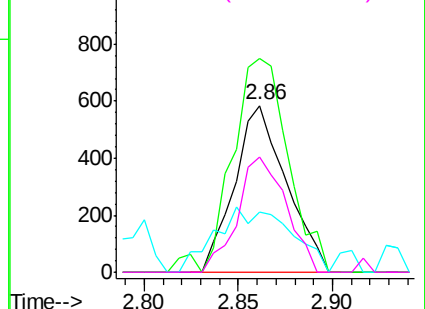


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.24 ug/l

RT: 4.75 min Scan# 682

Delta R.T. 0.03 min

Lab File: VX001324.D

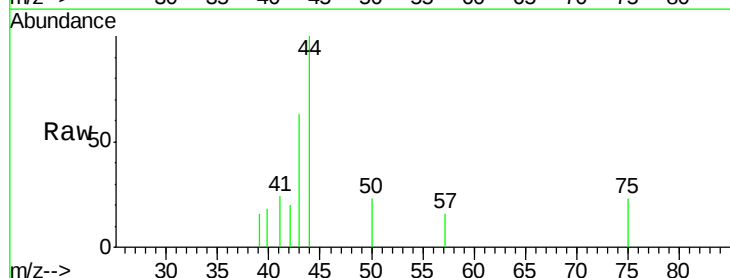
Acq: 02 May 2018 18:27

Tgt Ion: 43 Resp: 284

Ion Ratio Lower Upper

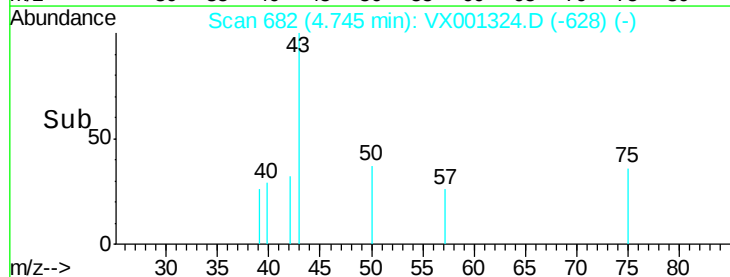
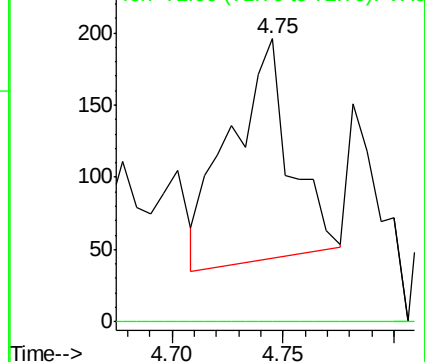
43 100

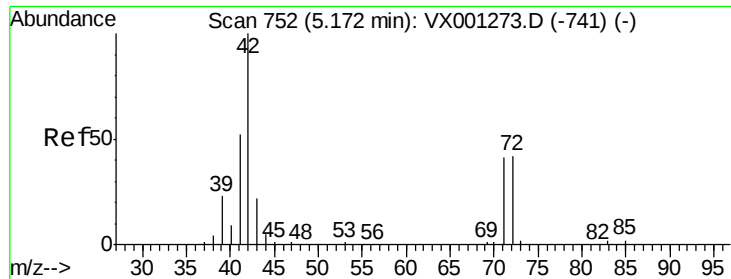
72 0.0 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.24 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

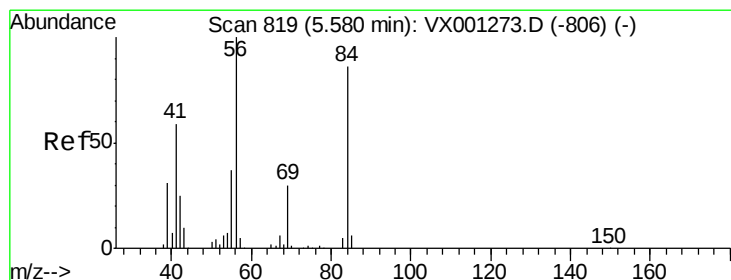
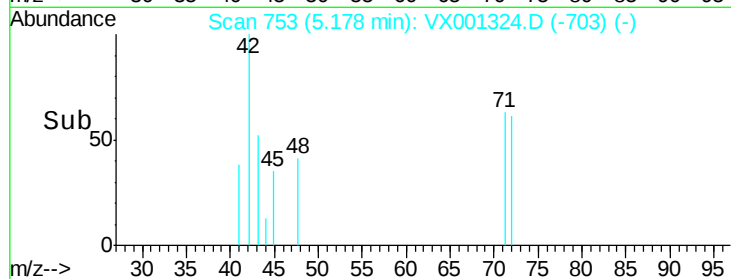
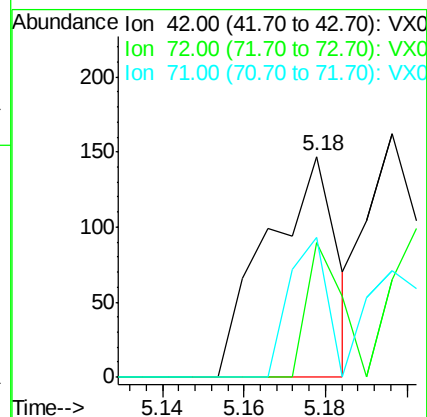
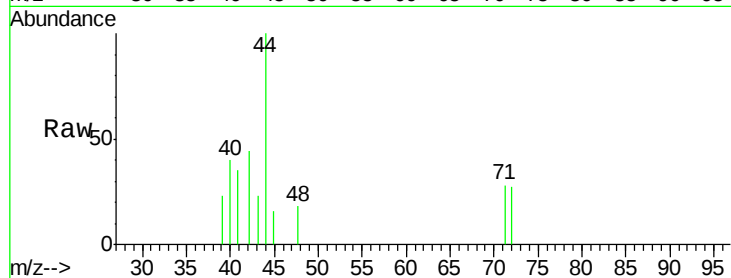
Tgt Ion: 42 Resp: 174

Ion Ratio Lower Upper

42 100

72 30.5 34.6 52.0#

71 34.5 32.7 49.1



#31

Cyclohexane

Concen: 1.18 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

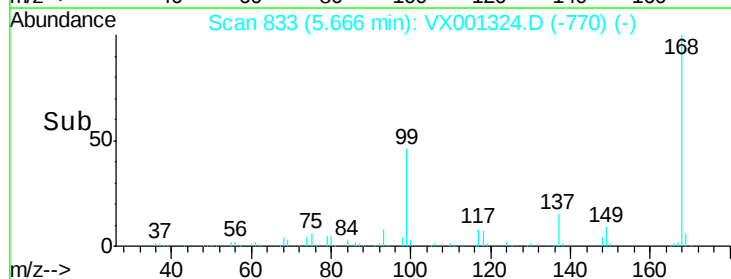
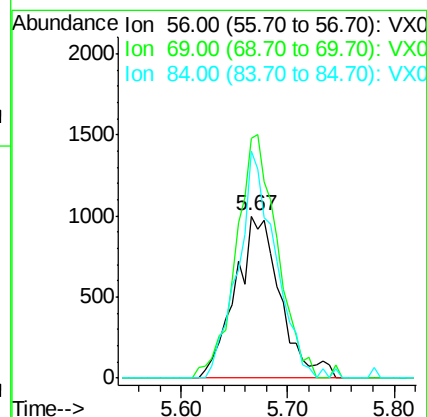
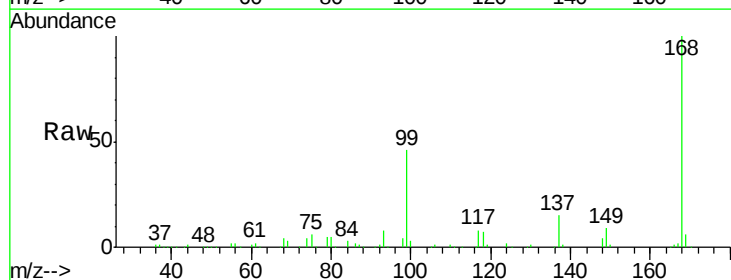
Tgt Ion: 56 Resp: 2951

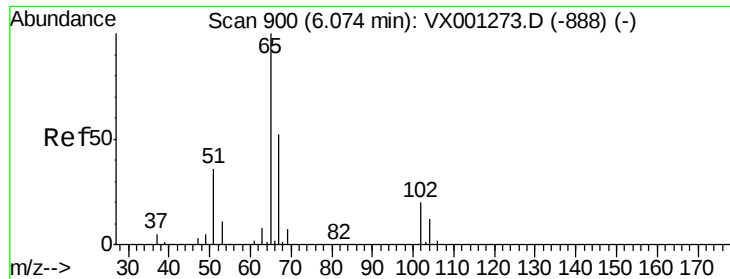
Ion Ratio Lower Upper

56 100

69 148.0 24.0 36.0#

84 140.3 69.0 103.4#





#33

1,2-Dichloroethane-d4

Concen: 43.97 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

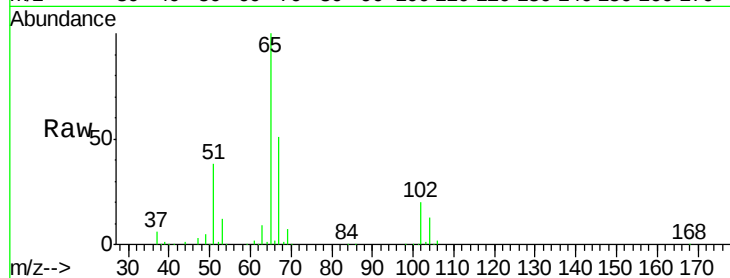
STORAGEBLANK-WATERREF-5

Tgt Ion: 65 Resp: 89846

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.08

40000

30000

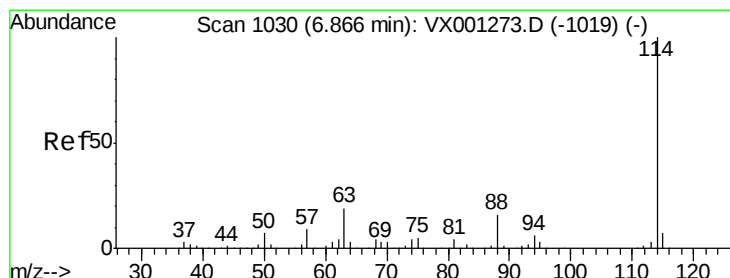
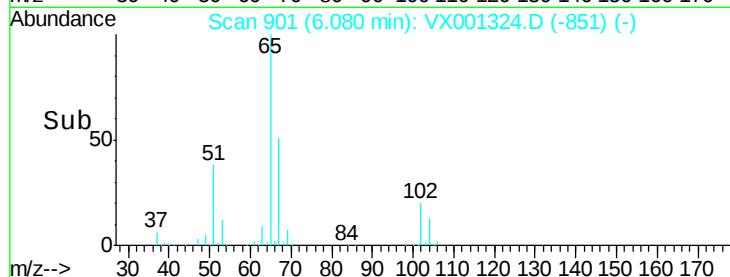
20000

10000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

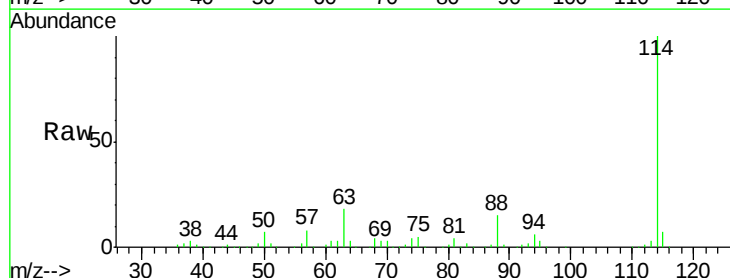
Tgt Ion: 114 Resp: 192420

Ion Ratio Lower Upper

114 100

63 18.4 0.0 38.8

88 14.8 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

100000

80000

60000

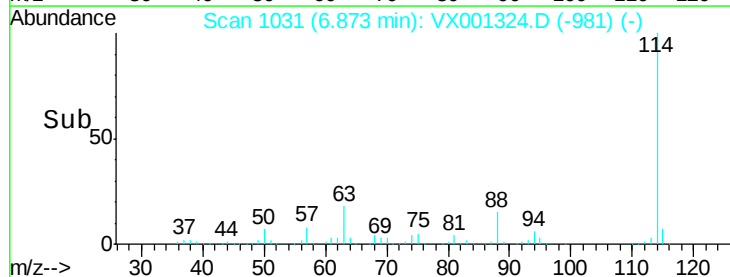
40000

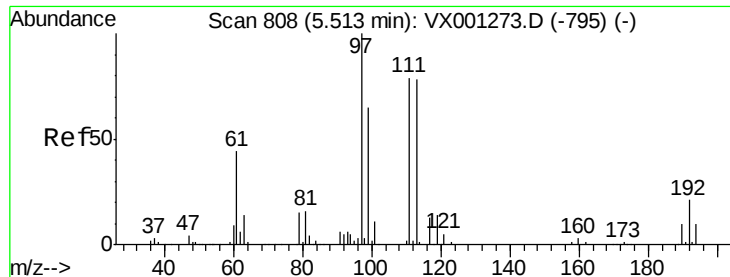
20000

0

Time-->

6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 44.11 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

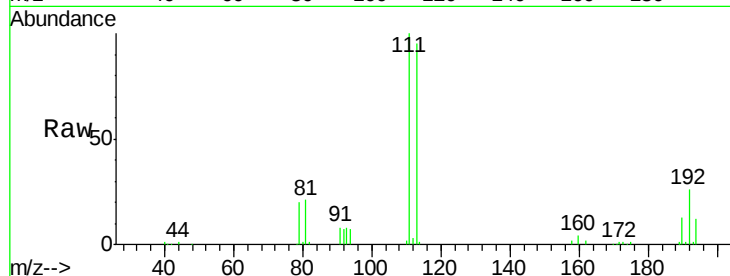
Tgt Ion:113 Resp: 73131

Ion Ratio Lower Upper

113 100

111 103.2 81.2 121.8

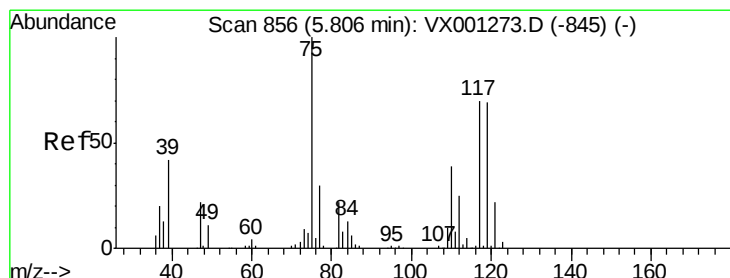
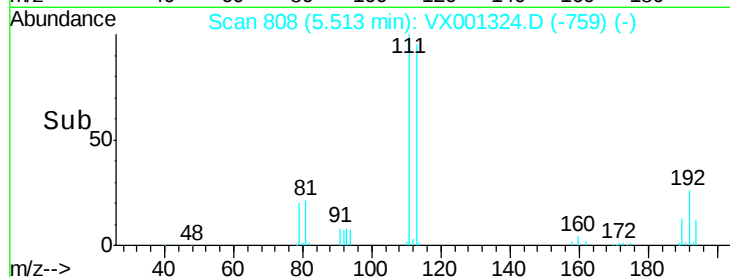
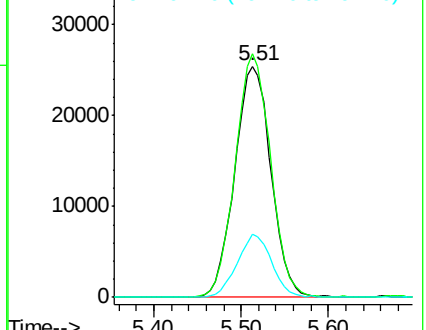
192 26.0 20.7 31.1



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: 3.98 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

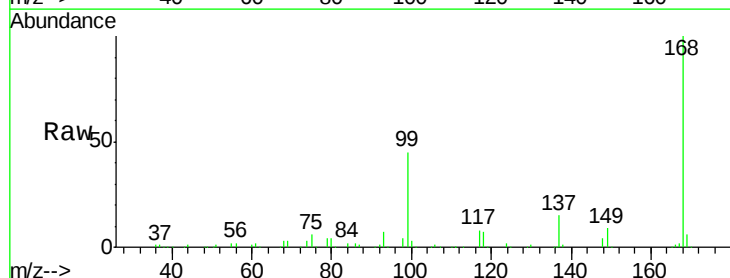
Tgt Ion: 75 Resp: 8837

Ion Ratio Lower Upper

75 100

110 9.9 18.9 56.9#

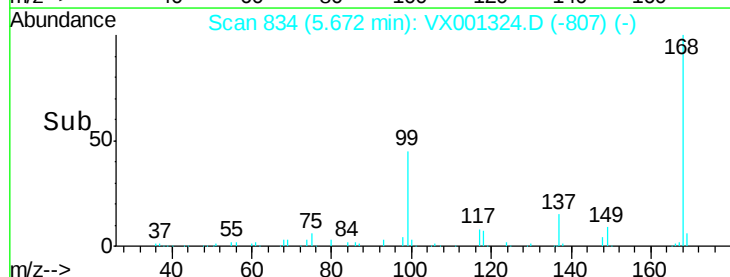
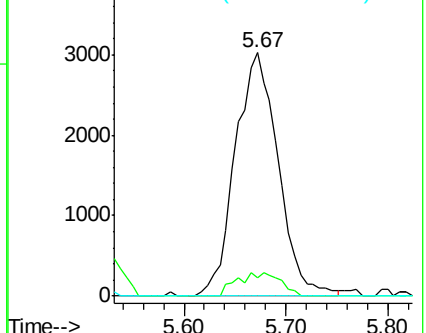
77 0.0 24.2 36.2#

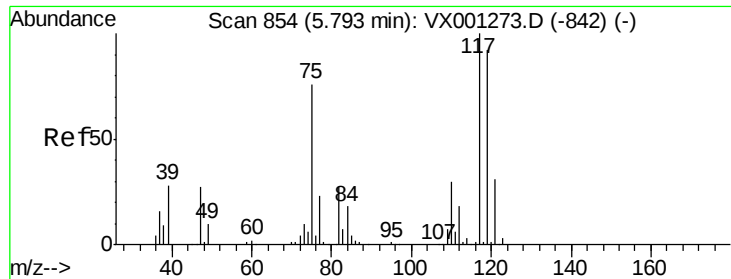


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.21 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

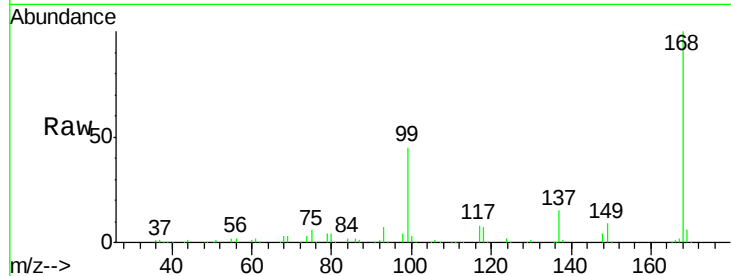
Tgt Ion:117 Resp: 12122

Ion Ratio Lower Upper

117 100

119 4.9 73.4 110.2#

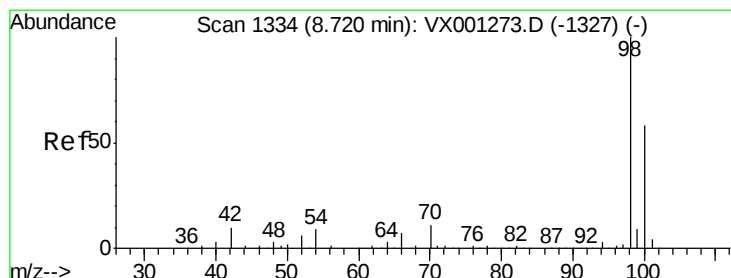
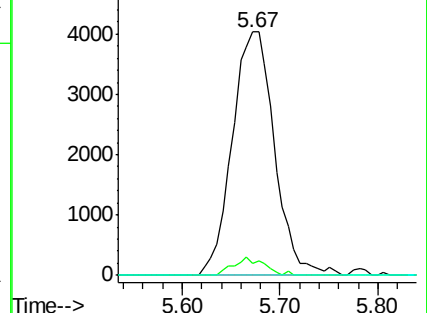
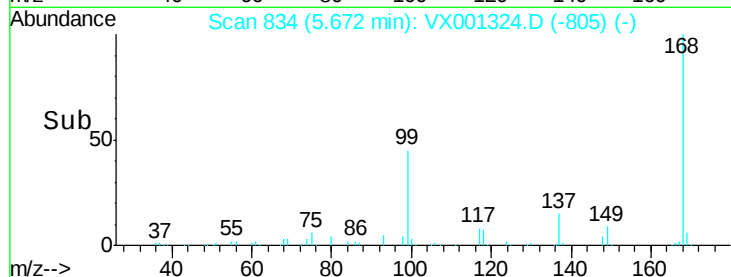
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 44.71 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001324.D

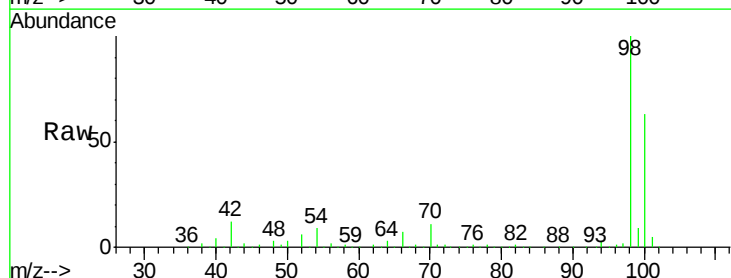
Acq: 02 May 2018 18:27

Tgt Ion: 98 Resp: 264784

Ion Ratio Lower Upper

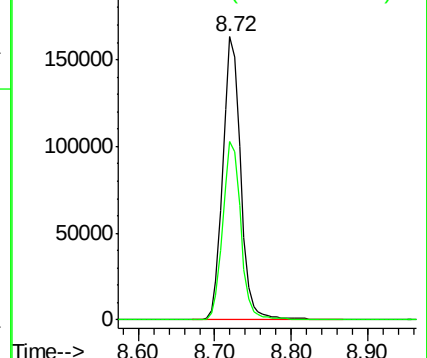
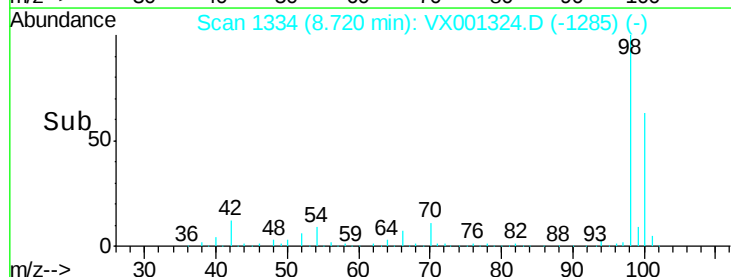
98 100

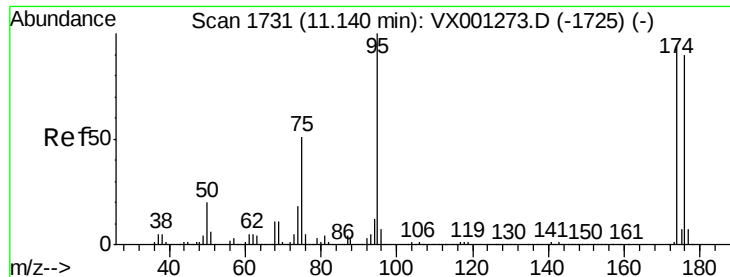
100 63.9 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 33.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

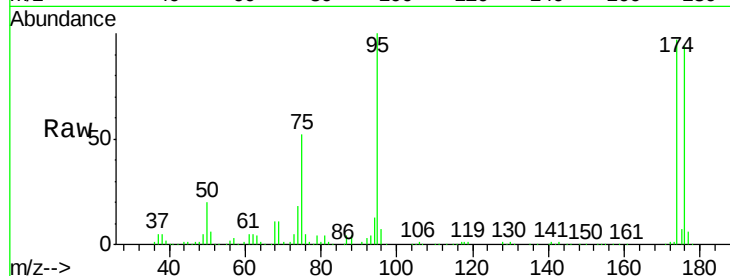
Tgt Ion: 95 Resp: 79913

Ion Ratio Lower Upper

95 100

174 105.3 0.0 201.8

176 102.0 0.0 197.2

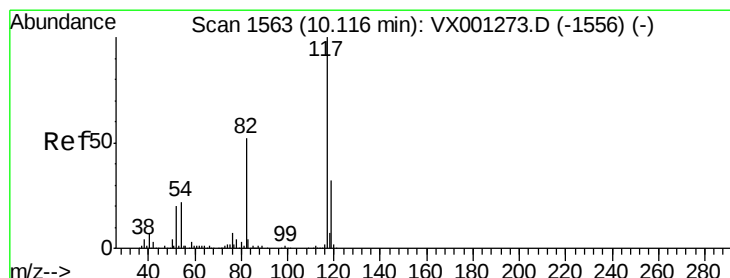
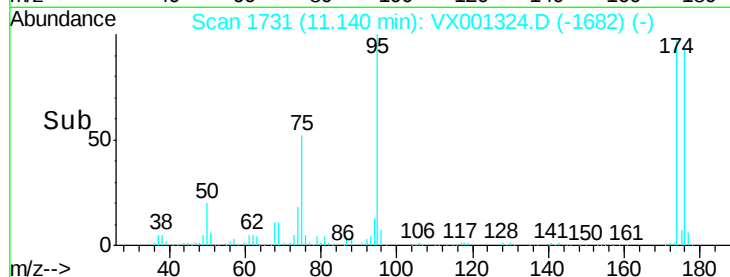


Abundance Ion 94.90 (94.60 to 95.60): VX001273.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX001273.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX001273.D (-1725) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

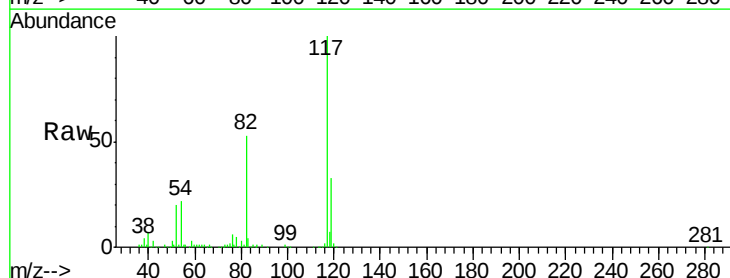
Tgt Ion: 117 Resp: 164084

Ion Ratio Lower Upper

117 100

82 52.7 41.4 62.0

119 32.8 25.5 38.3

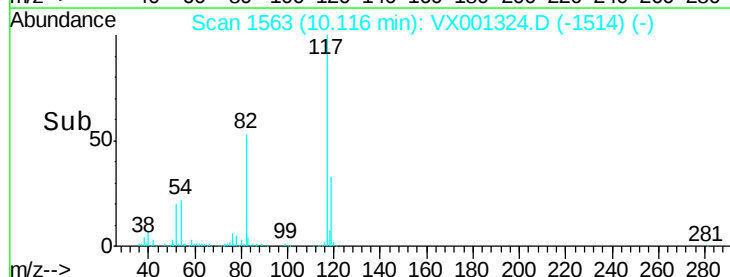


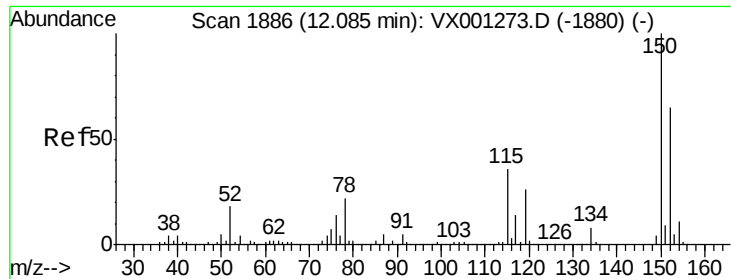
Abundance Ion 116.90 (116.60 to 117.60): VX001273.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX001273.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX001273.D (-1556) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

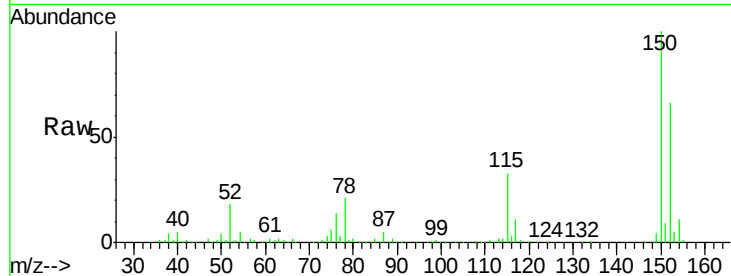
Tgt Ion:152 Resp: 85159

Ion Ratio Lower Upper

152 100

115 51.2 38.6 115.7

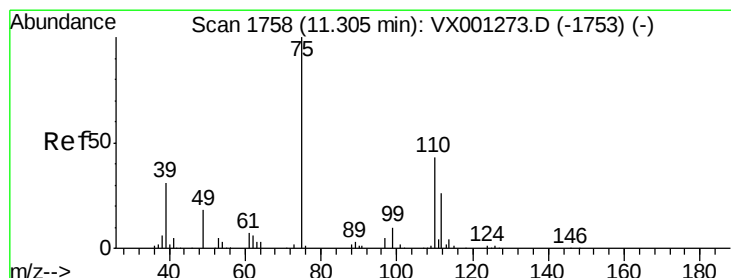
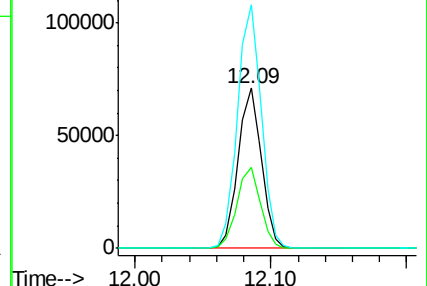
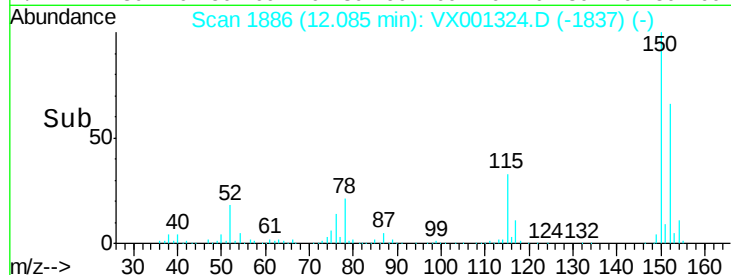
150 155.1 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 26.02 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001324.D

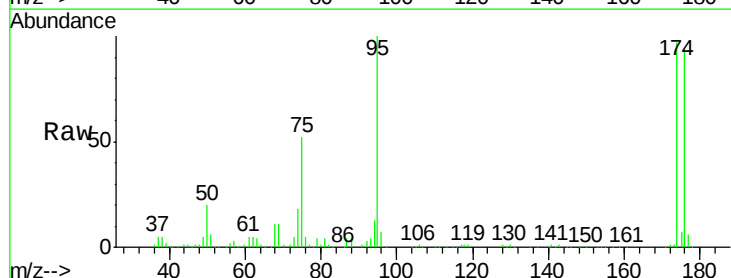
Acq: 02 May 2018 18:27

Tgt Ion: 75 Resp: 40981

Ion Ratio Lower Upper

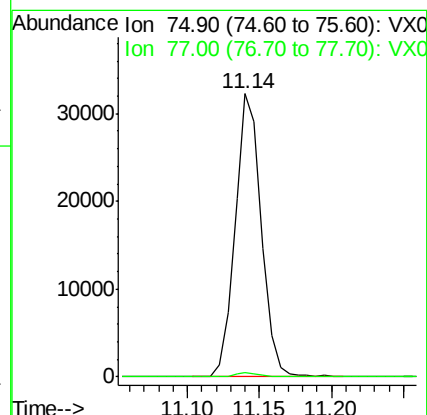
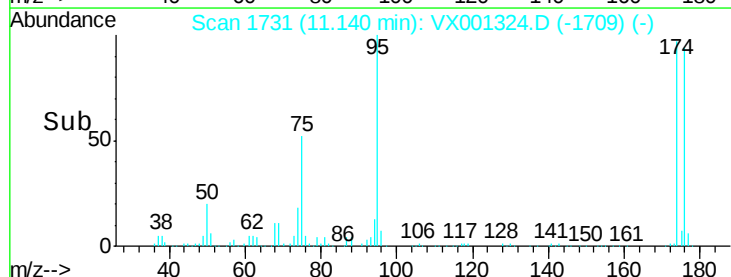
75 100

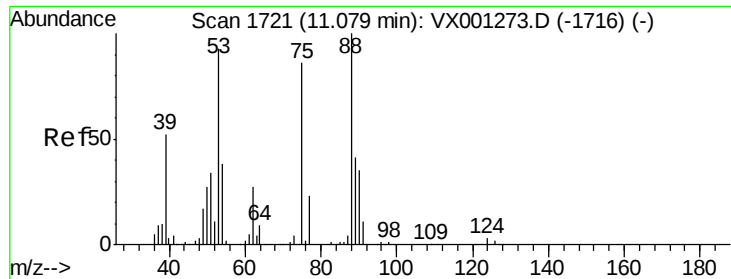
77 1.4 18.9 56.5#



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: 81.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001324.D

Acq: 02 May 2018 18:27

Instrument :

MSVOA\_X

ClientSampleId :

STORAGEBLANK-WATERREF-5

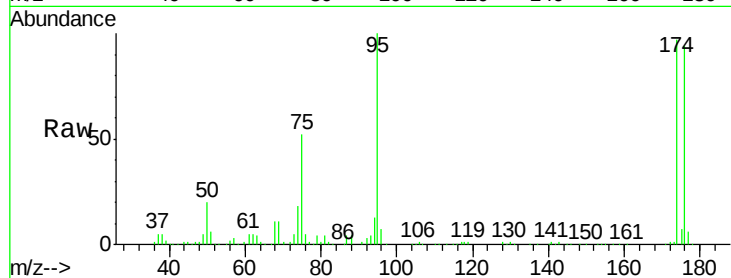
Tgt Ion: 75 Resp: 40981

Ion Ratio Lower Upper

75 100

53 0.1 87.1 130.7#

89 0.1 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

