

Data File : VX001291.D

Acq On : 01 May 2018 22:06

Operator : JC/MD

Sample : J2547-09

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
E3TB01-180423

Quant Time: May 02 02:09:04 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  | 170334   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 228760   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 207458   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 119418   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 127105   | 53.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.82% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 104112   | 52.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.66% |      |
| 50) Toluene-d8            | 8.72   | 98  | 388301   | 55.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.30% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 130086   | 46.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.40%  |      |

## Target Compounds

|                                | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 461      | 0.25  | ug/l   | 92     |
| 5) Bromomethane                | 1.65  | 94   | 1152     | Below | Cal    | 99     |
| 6) Chloroethane                | 1.81  | 64   | 1666     | 1.35  | ug/l # | 63     |
| 10) Methyl Iodide              | 2.52  | 142  | 1839     | 5.14  | ug/l   | 96     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1367     | 3.37  | ug/l # | 72     |
| 13) Acrolein                   | 2.29  | 56   | 50       | 0.21  | ug/l # | 1      |
| 15) Acrylonitrile              | 3.14  | 53   | 350      | 0.37  | ug/l # | 60     |
| 16) Acetone                    | 2.45  | 43   | 5687     | 5.65  | ug/l   | 99     |
| 20) Methylene Chloride         | 2.86  | 84   | 949      | Below | Cal #  | 77     |
| 31) Cyclohexane                | 5.67  | 56   | 3172     | 1.10  | ug/l # | 43     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 10464    | 3.96  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 14710    | 5.32  | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 67492    | 30.56 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 67492    | 95.20 | ug/l # | 6      |

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

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Instrument :  
MSVOA\_X  
ClientSampleId :  
E3TB01-180423

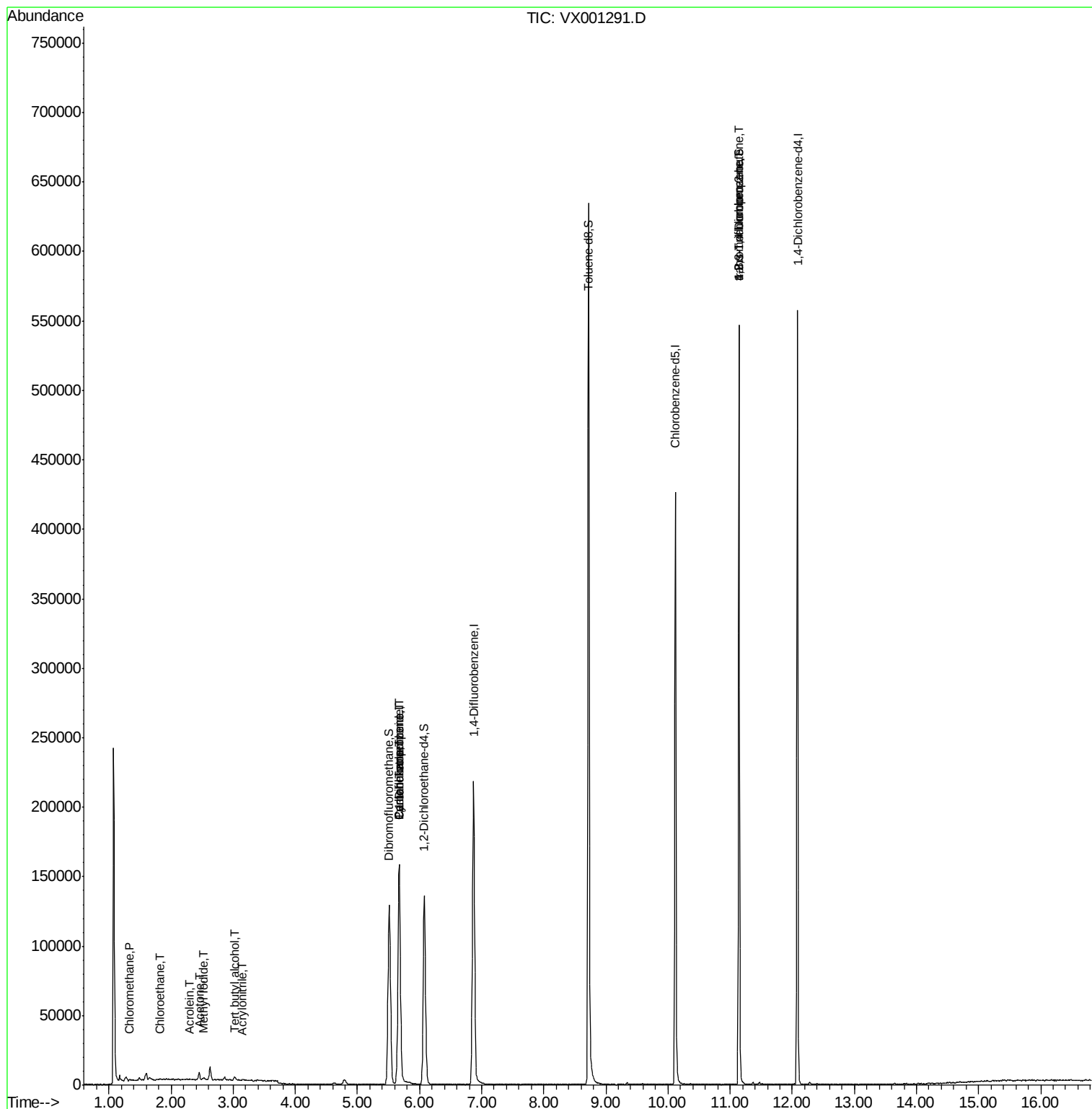
Quant Time: May 02 02:09:04 2018

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: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

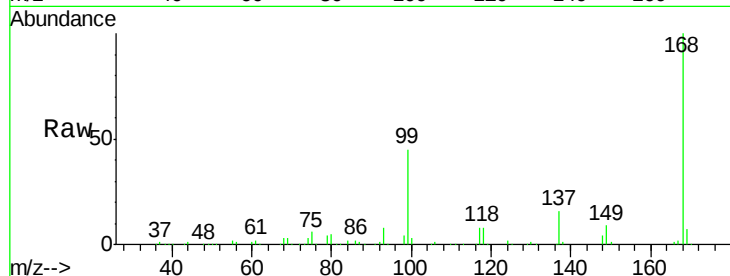
E3TB01-180423

Tgt Ion:168 Resp: 170334

Ion Ratio Lower Upper

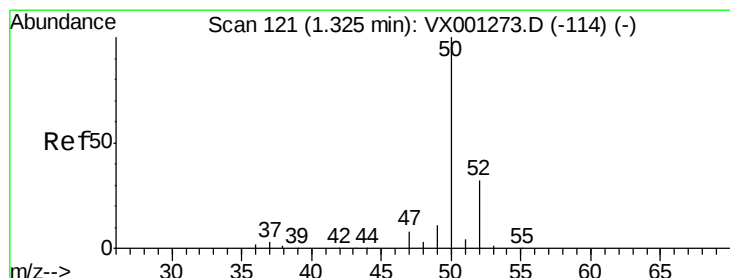
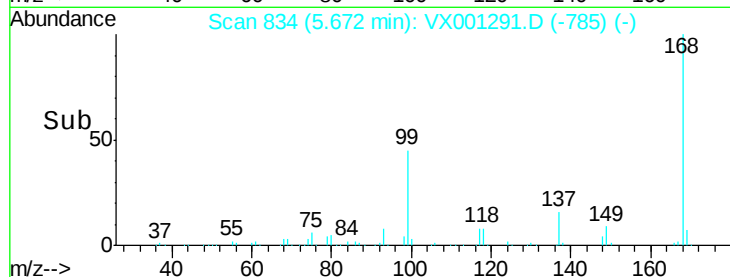
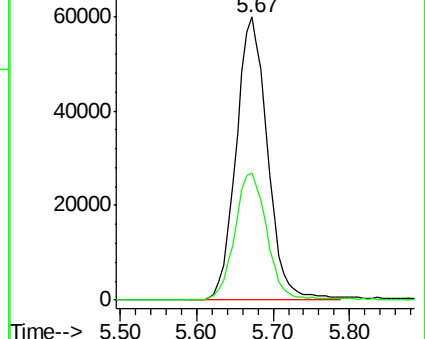
168 100

99 44.9 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: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001291.D

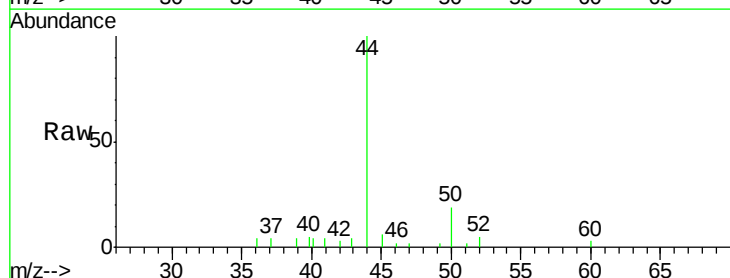
Acq: 01 May 2018 22:06

Tgt Ion: 50 Resp: 461

Ion Ratio Lower Upper

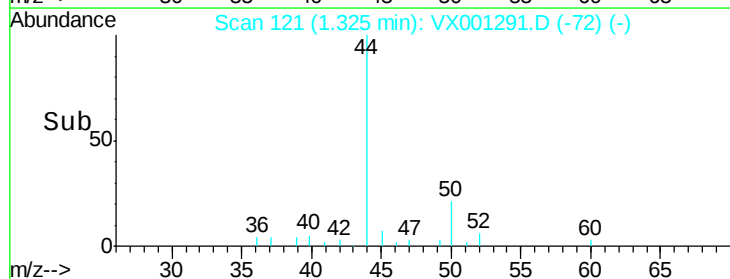
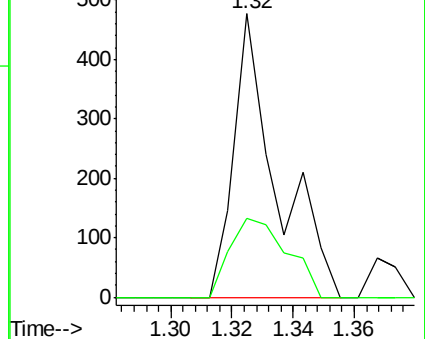
50 100

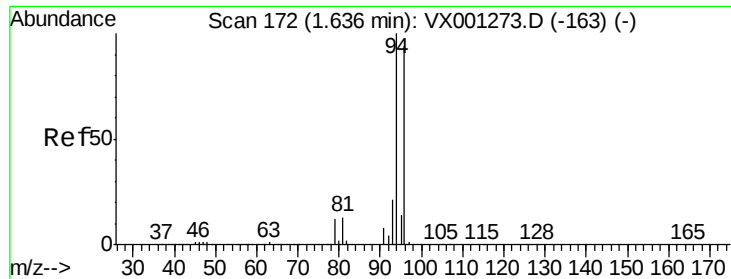
52 27.7 25.7 38.5



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: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

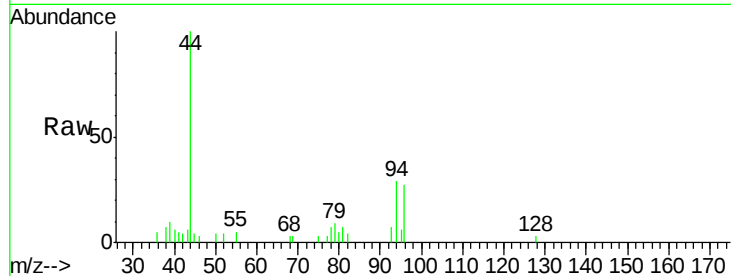
E3TB01-180423

Tgt Ion: 94 Resp: 1152

Ion Ratio Lower Upper

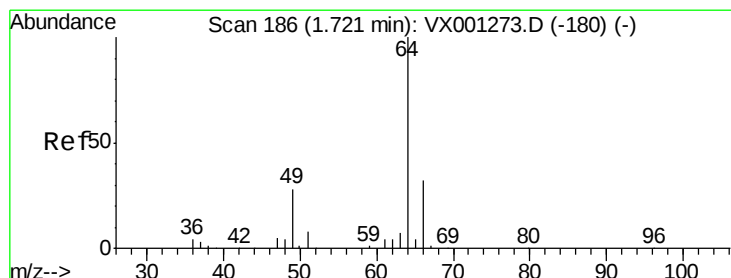
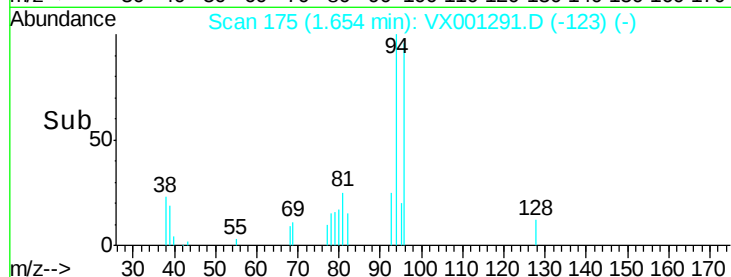
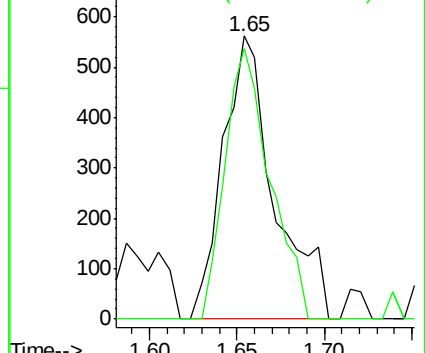
94 100

96 95.7 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.35 ug/l

RT: 1.81 min Scan# 201

Delta R.T. 0.09 min

Lab File: VX001291.D

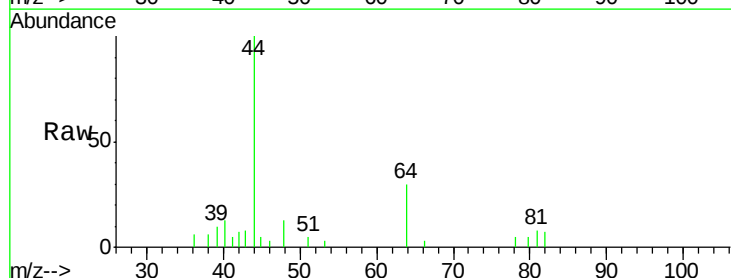
Acq: 01 May 2018 22:06

Tgt Ion: 64 Resp: 1666

Ion Ratio Lower Upper

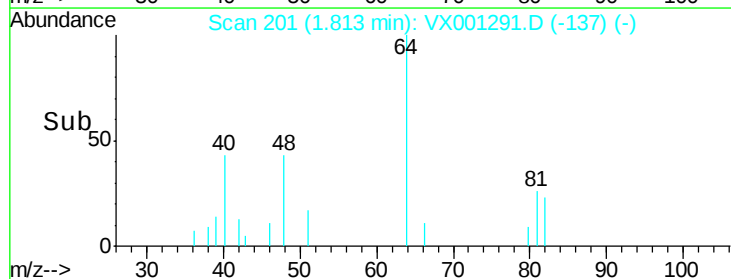
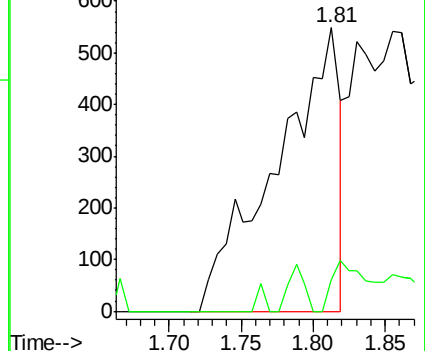
64 100

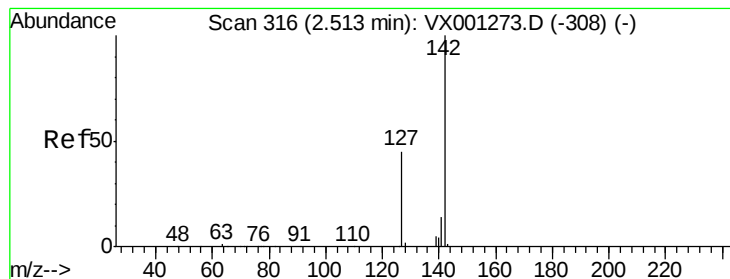
66 11.3 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methyl Iodide

Concen: 5.14 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

E3TB01-180423

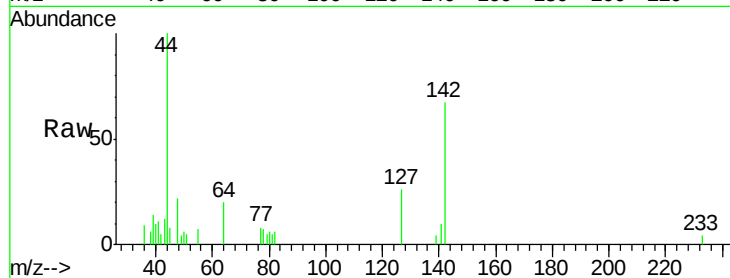
Tgt Ion:142 Resp: 1839

Ion Ratio Lower Upper

142 100

127 46.9 35.7 53.5

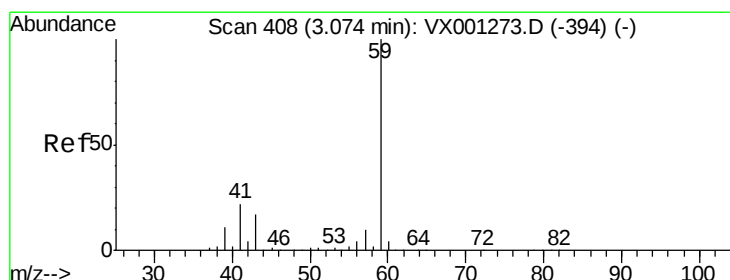
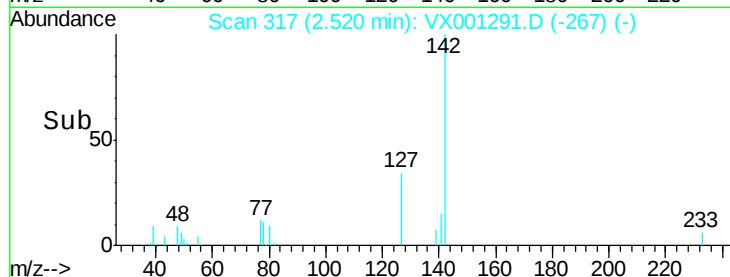
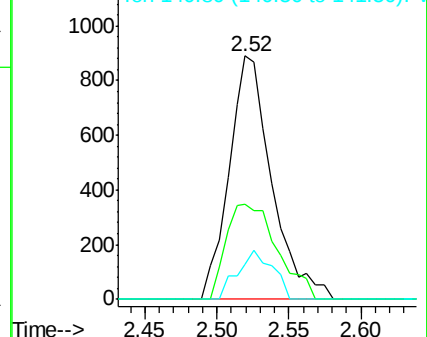
141 16.4 11.4 17.0



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: 3.37 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX001291.D

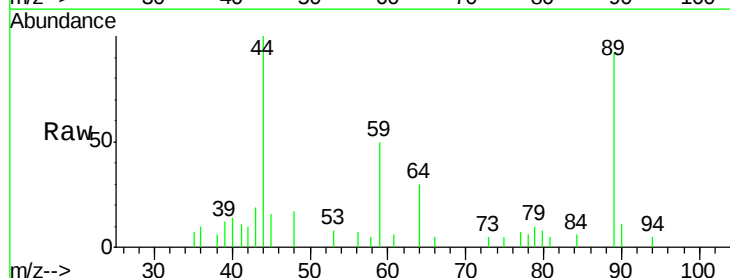
Acq: 01 May 2018 22:06

Tgt Ion: 59 Resp: 1367

Ion Ratio Lower Upper

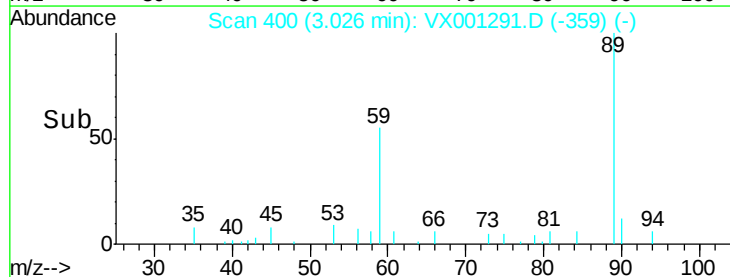
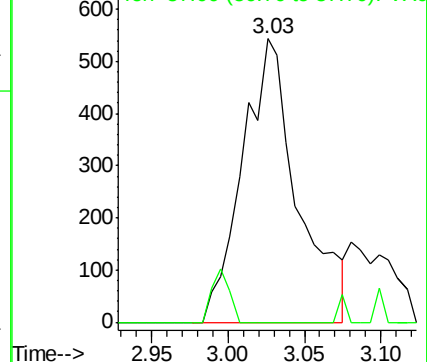
59 100

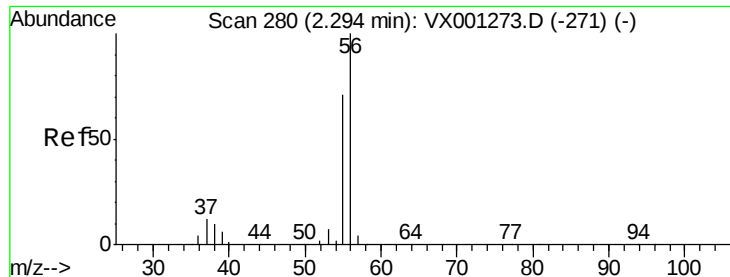
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.21 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampled :

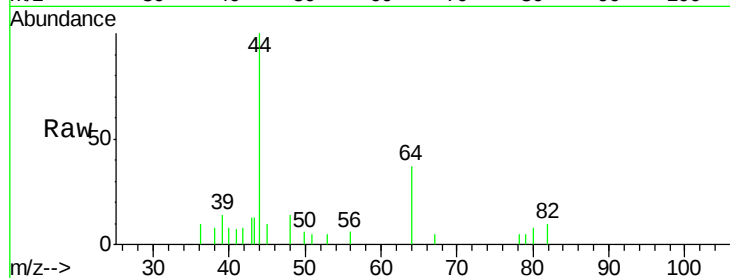
E3TB01-180423

Tgt Ion: 56 Resp: 50

Ion Ratio Lower Upper

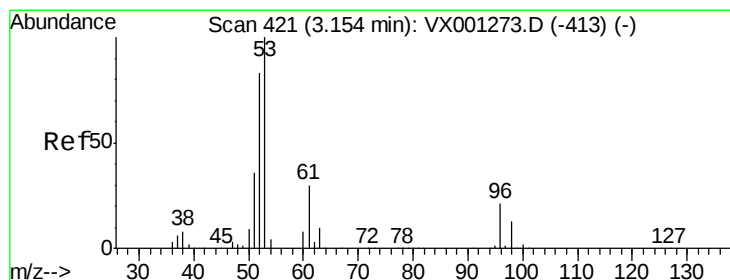
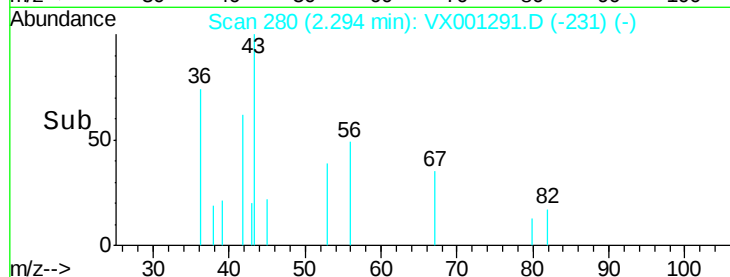
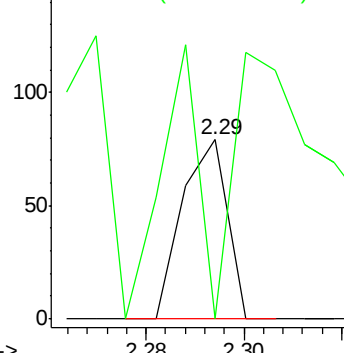
56 100

55 314.0 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.37 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

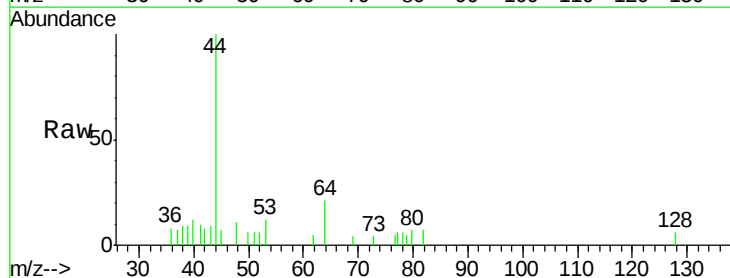
Tgt Ion: 53 Resp: 350

Ion Ratio Lower Upper

53 100

52 81.4 67.0 100.4

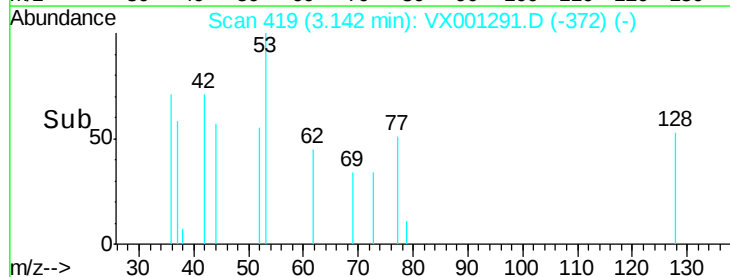
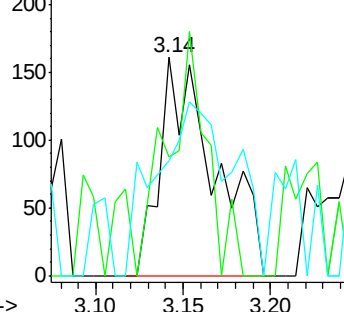
51 111.7 29.9 44.9#

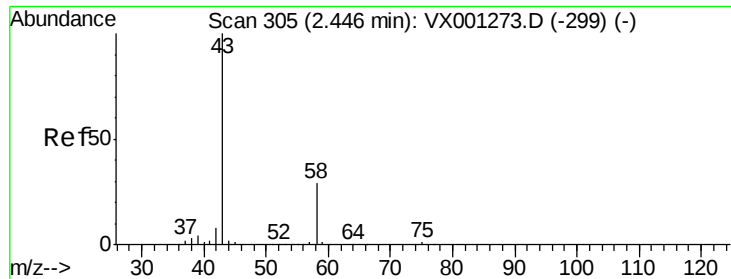


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 5.65 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

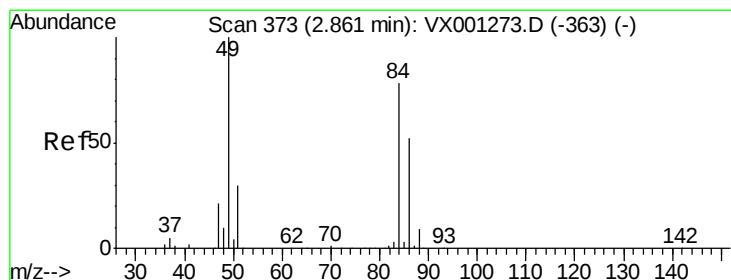
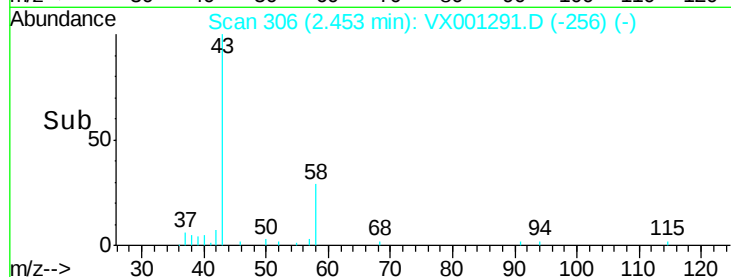
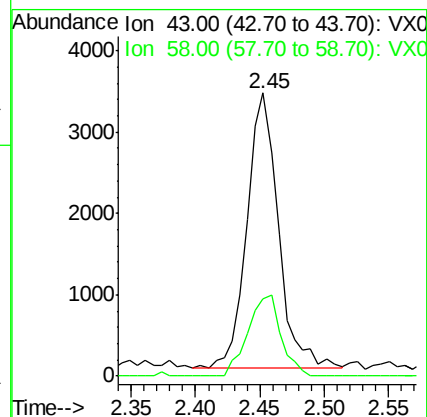
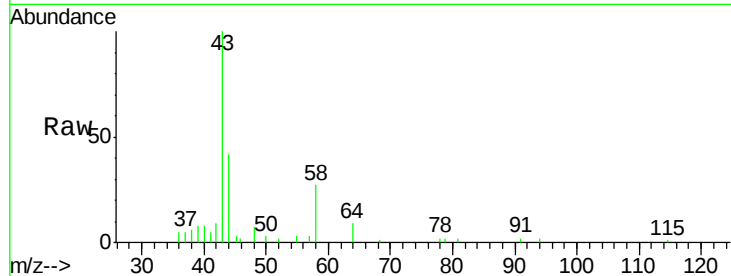
E3TB01-180423

Tgt Ion: 43 Resp: 5687

Ion Ratio Lower Upper

43 100

58 28.2 22.8 34.2



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Tgt Ion: 84 Resp: 949

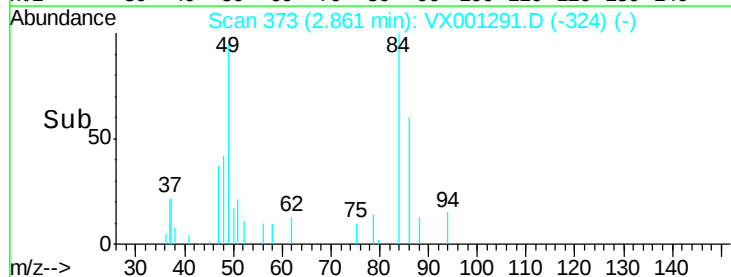
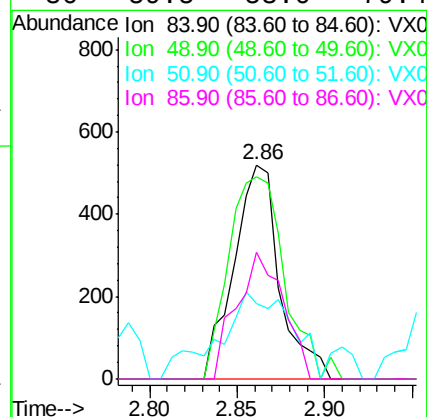
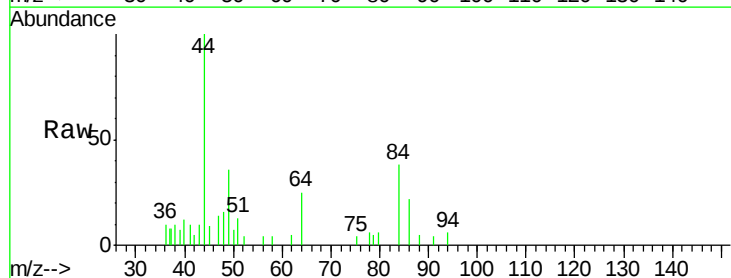
Ion Ratio Lower Upper

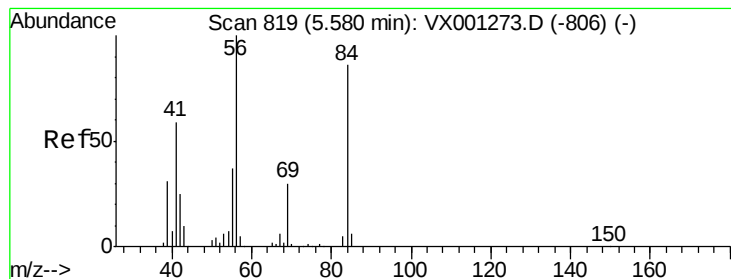
84 100

49 94.6 102.8 154.2#

51 22.5 30.9 46.3#

86 59.5 53.0 79.4





#31

Cyclohexane

Concen: 1.10 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

E3TB01-180423

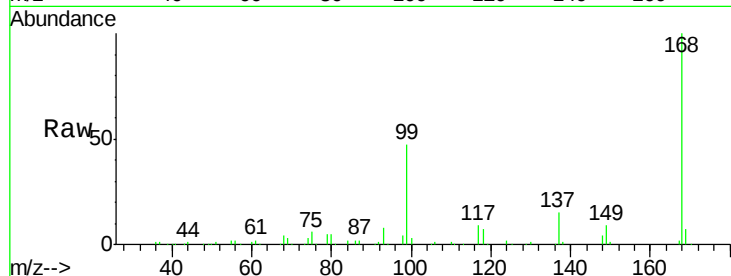
Tgt Ion: 56 Resp: 3172

Ion Ratio Lower Upper

56 100

69 124.3 24.0 36.0#

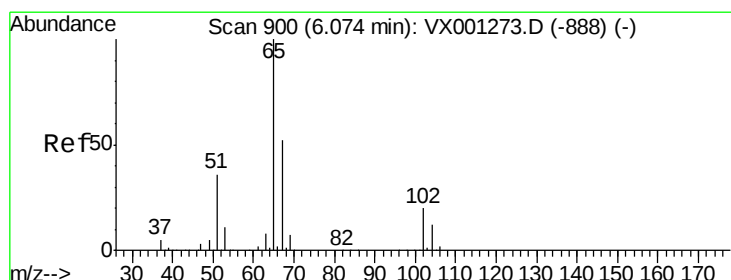
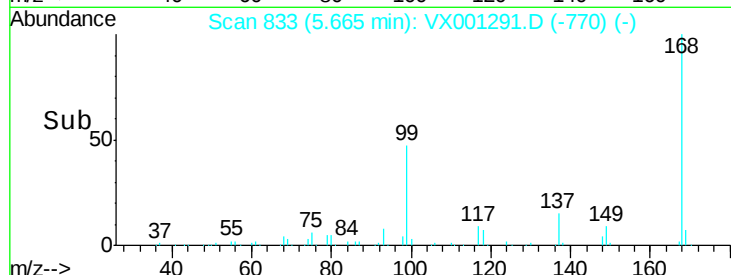
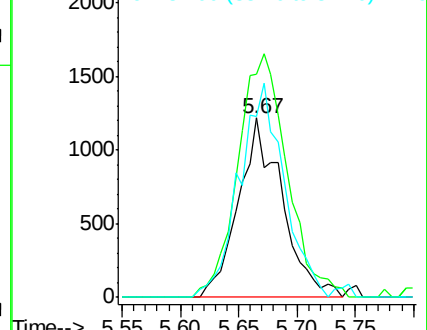
84 101.2 69.0 103.4



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: 53.91 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001291.D

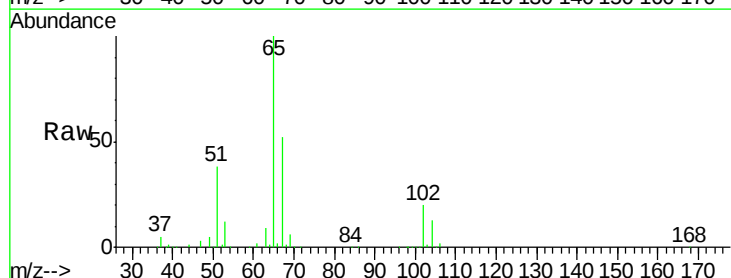
Acq: 01 May 2018 22:06

Tgt Ion: 65 Resp: 127105

Ion Ratio Lower Upper

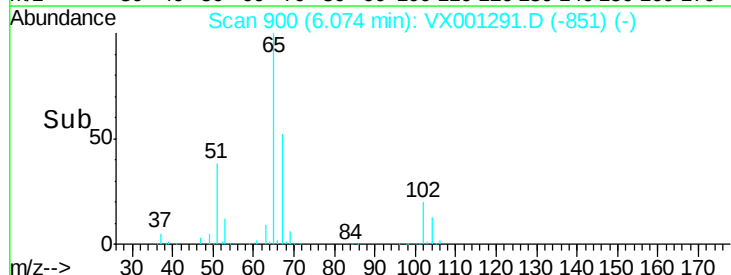
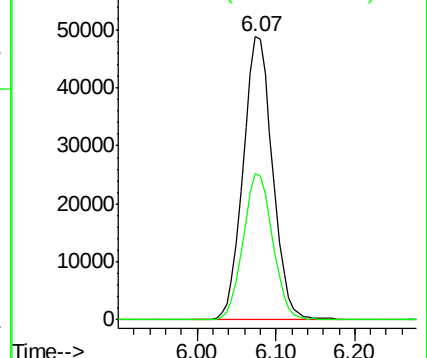
65 100

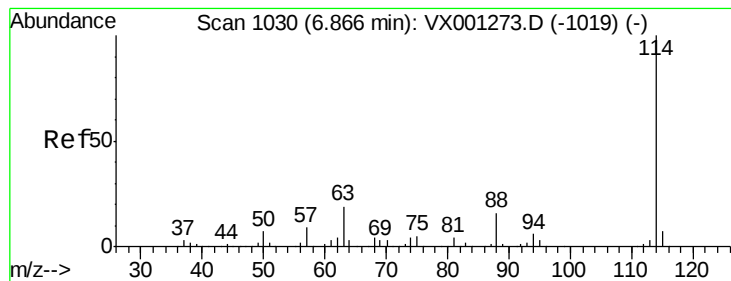
67 51.8 0.0 102.8



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# 1030

Delta R.T. 0.00 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

E3TB01-180423

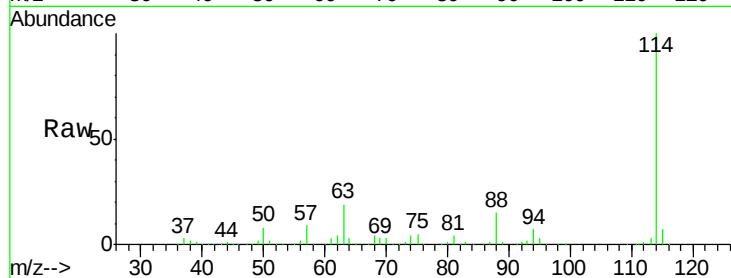
Tgt Ion:114 Resp: 228760

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.8

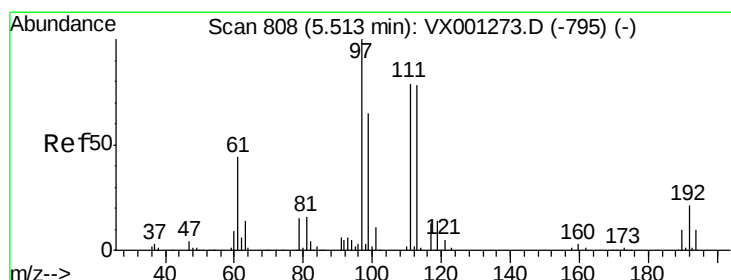
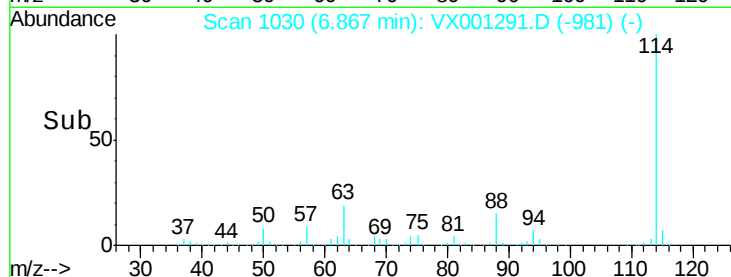
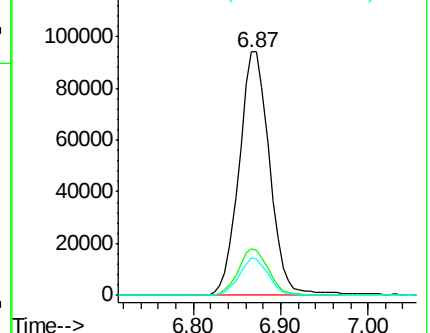
88 15.4 0.0 32.2



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: 52.83 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

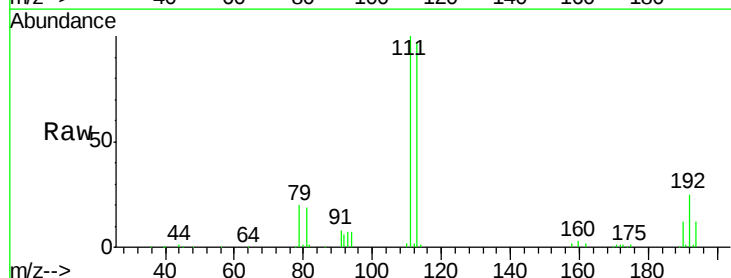
Tgt Ion:113 Resp: 104112

Ion Ratio Lower Upper

113 100

111 102.3 81.2 121.8

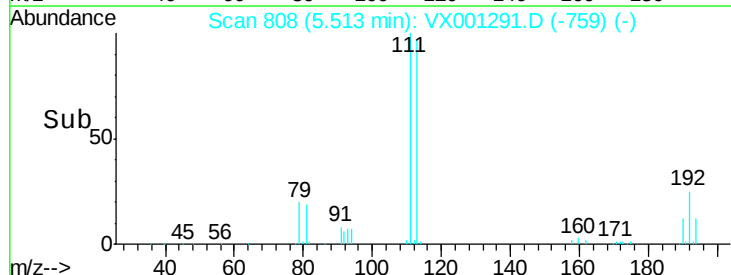
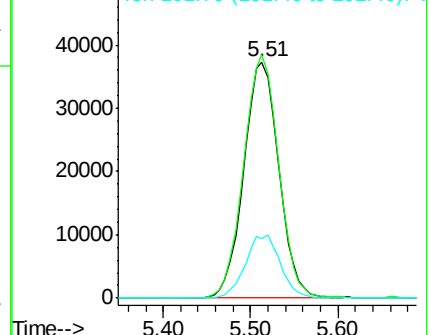
192 26.7 20.7 31.1

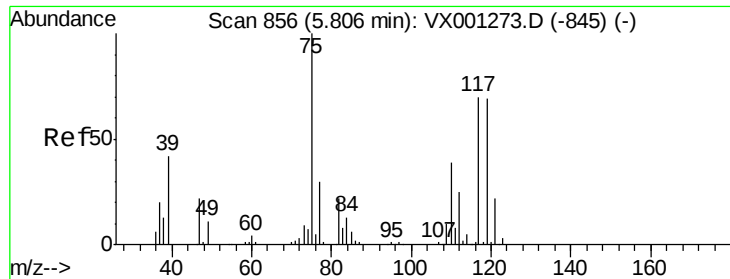


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

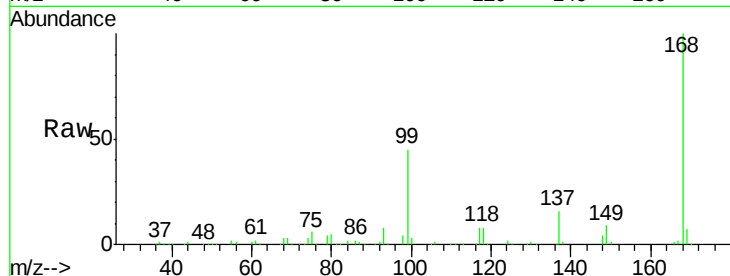




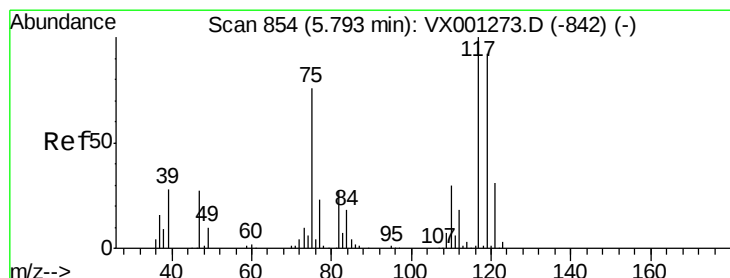
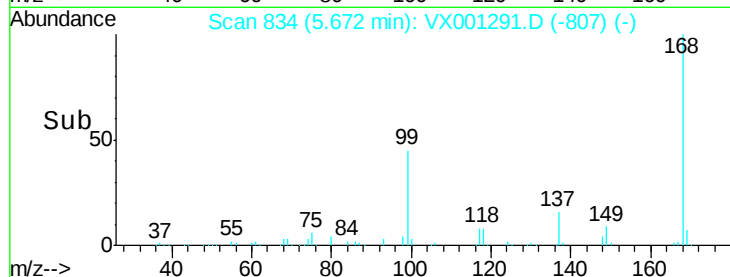
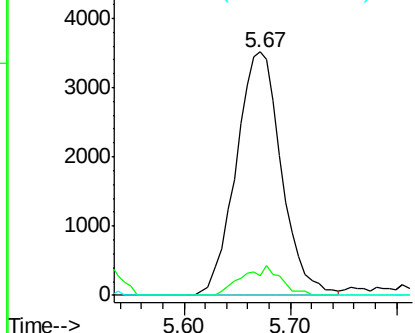
#36  
 1,1-Dichloropropene  
 Concen: 3.96 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001291.D  
 Acq: 01 May 2018 22:06

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 E3TB01-180423

Tgt Ion: 75 Resp: 10464  
 Ion Ratio Lower Upper  
 75 100  
 110 10.3 18.9 56.9#  
 77 0.0 24.2 36.2#

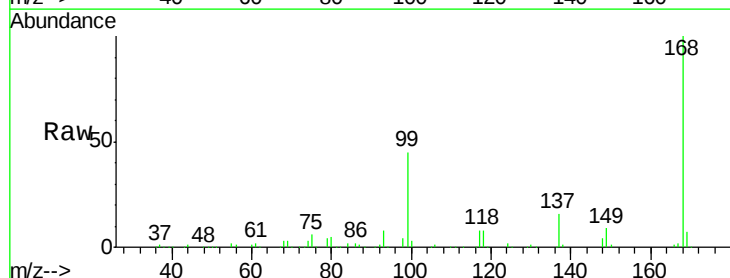


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

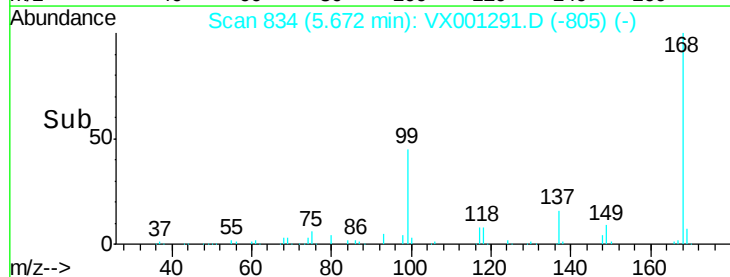
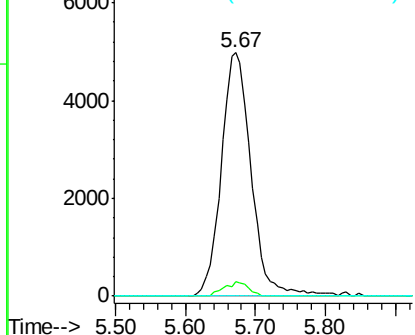


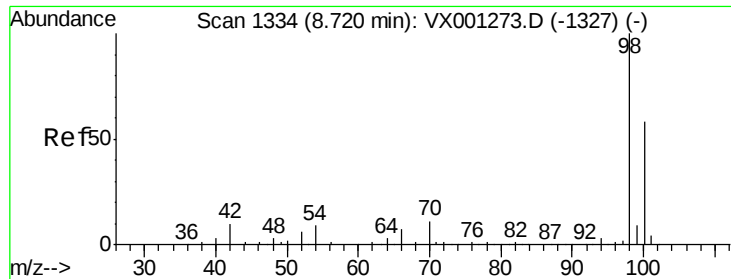
#38  
 Carbon Tetrachloride  
 Concen: 5.32 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX001291.D  
 Acq: 01 May 2018 22:06

Tgt Ion: 117 Resp: 14710  
 Ion Ratio Lower Upper  
 117 100  
 119 5.8 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: 55.15 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

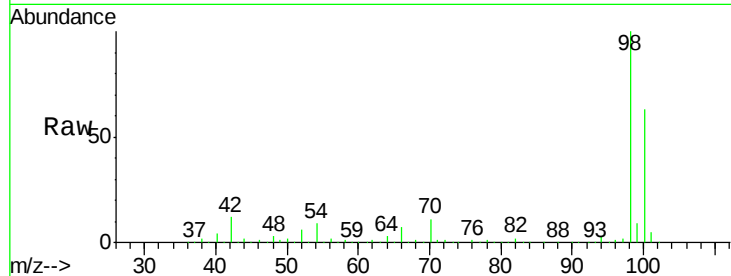
E3TB01-180423

Tgt Ion: 98 Resp: 388301

Ion Ratio Lower Upper

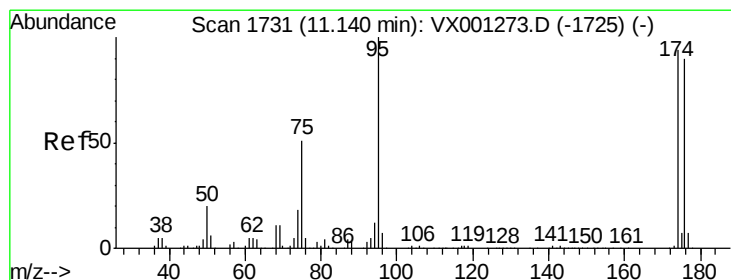
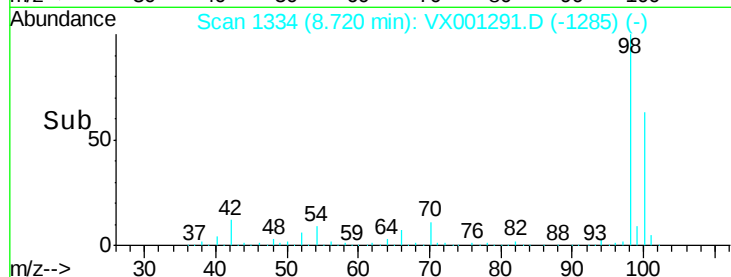
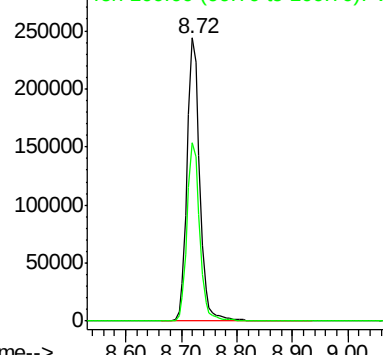
98 100

100 63.3 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 46.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

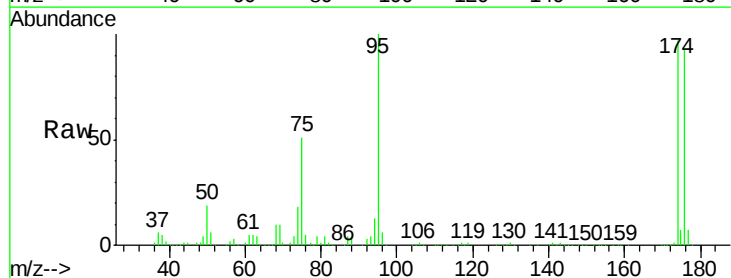
Tgt Ion: 95 Resp: 130086

Ion Ratio Lower Upper

95 100

174 105.0 0.0 201.8

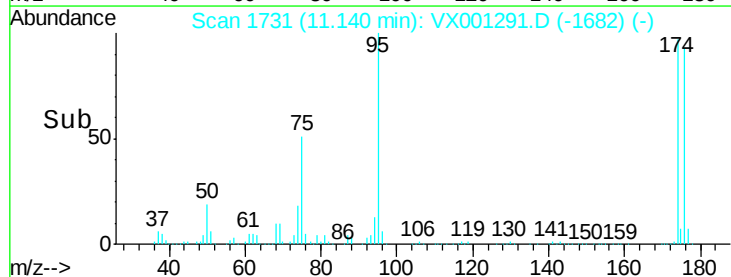
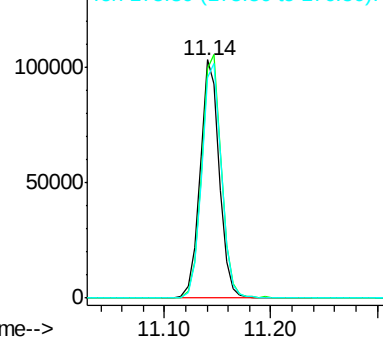
176 101.7 0.0 197.2

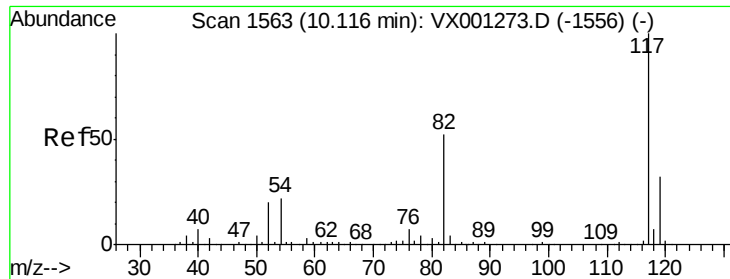


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

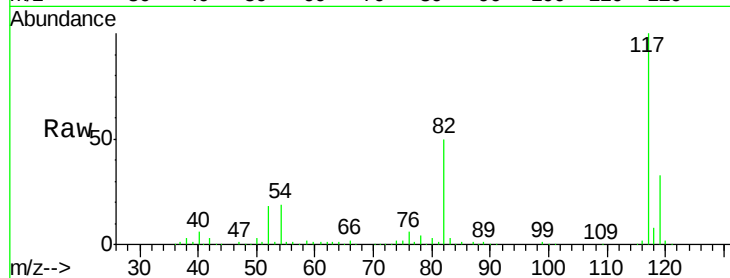




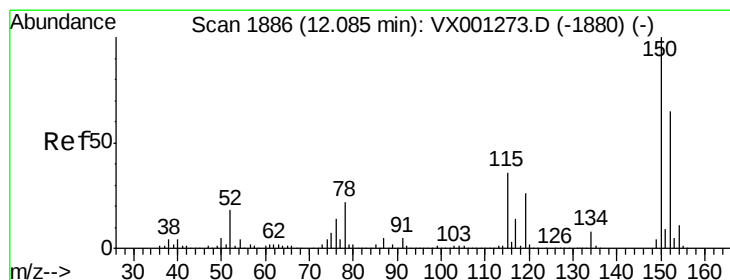
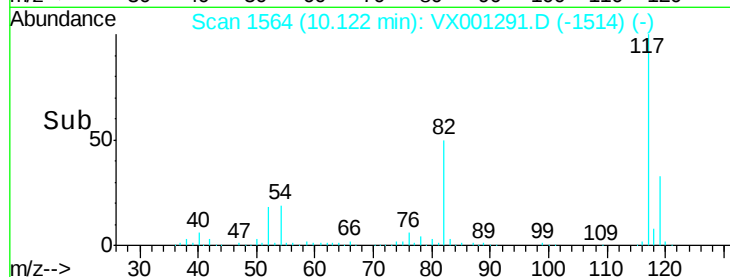
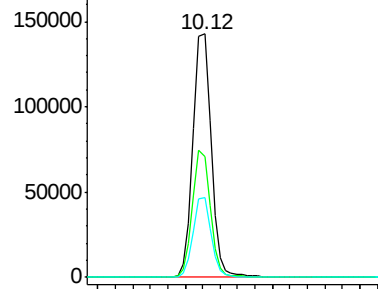
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.01 min  
Lab File: VX001291.D  
Acq: 01 May 2018 22:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
E3TB01-180423

Tgt Ion:117 Resp: 207458  
Ion Ratio Lower Upper  
117 100  
82 49.7 41.4 62.0  
119 32.7 25.5 38.3

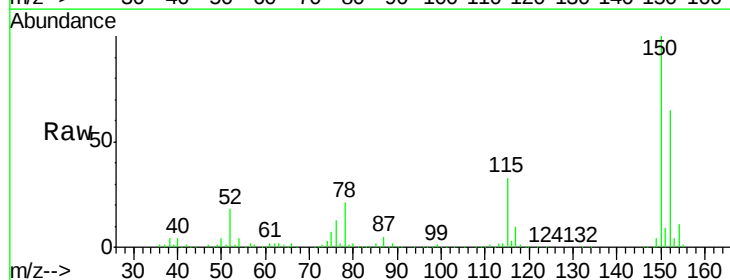


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

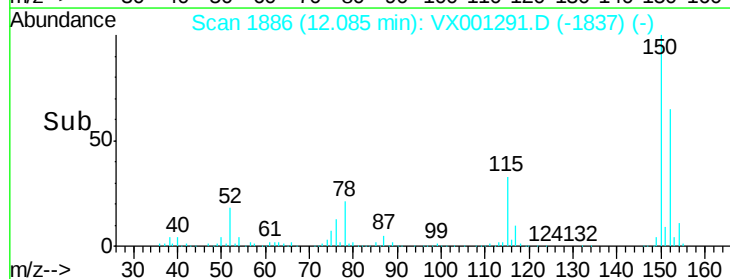
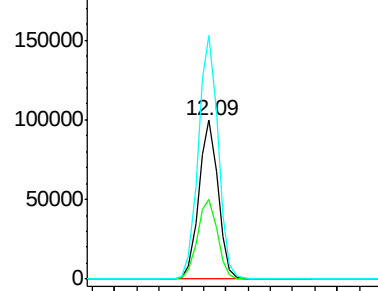


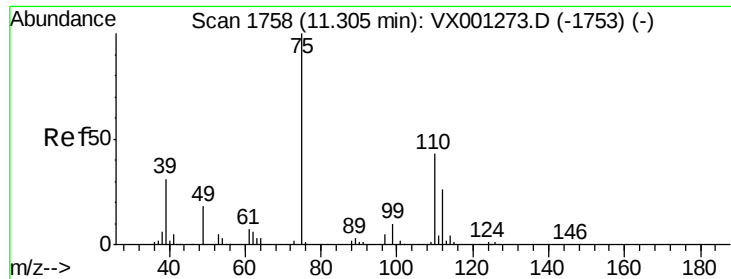
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX001291.D  
Acq: 01 May 2018 22:06

Tgt Ion:152 Resp: 119418  
Ion Ratio Lower Upper  
152 100  
115 52.0 38.6 115.7  
150 156.9 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: 30.56 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

Instrument :

MSVOA\_X

ClientSampleId :

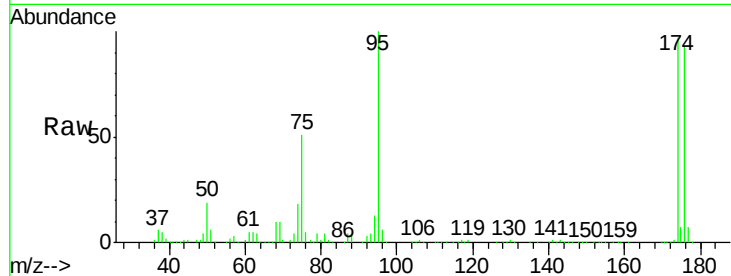
E3TB01-180423

Tgt Ion: 75 Resp: 67492

Ion Ratio Lower Upper

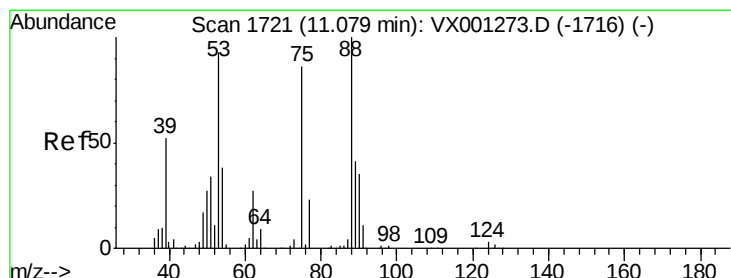
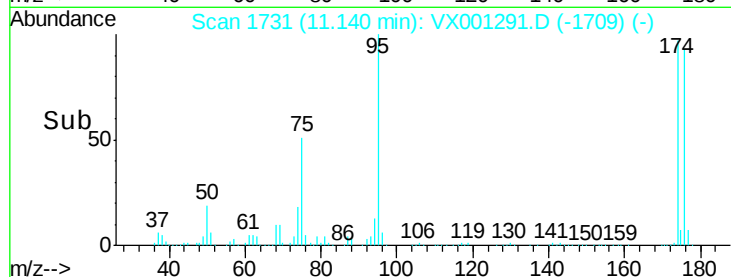
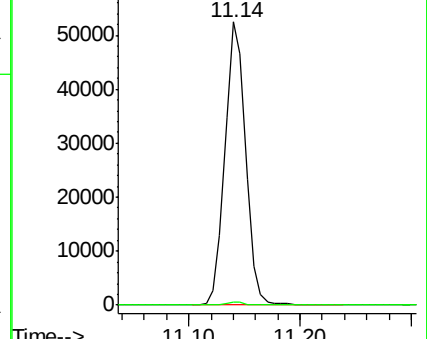
75 100

77 1.1 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: 95.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001291.D

Acq: 01 May 2018 22:06

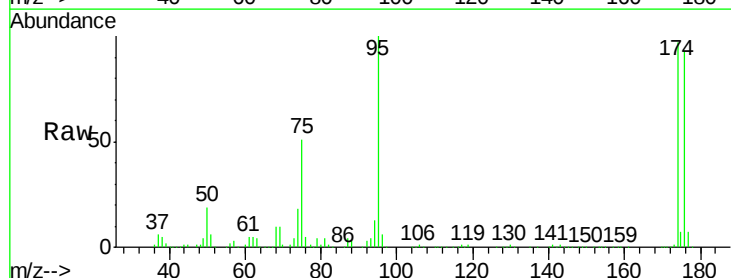
Tgt Ion: 75 Resp: 67492

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

