

Data File : VX001864.D  
Acq On : 19 May 2018 09:07  
Operator : JC/MD  
Sample : PB109413ZHE#15  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB109413ZHE#15

Quant Time: May 21 03:25:04 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X051518W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 15 01:36:22 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 279701   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 372665   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 285561   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 150108   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 160738   | 42.87 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.74% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 141934   | 45.13 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.26% |      |
| 50) Toluene-d8              | 8.72   | 98  | 520157   | 46.18 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.36% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 140065   | 34.54 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 69.08% |      |

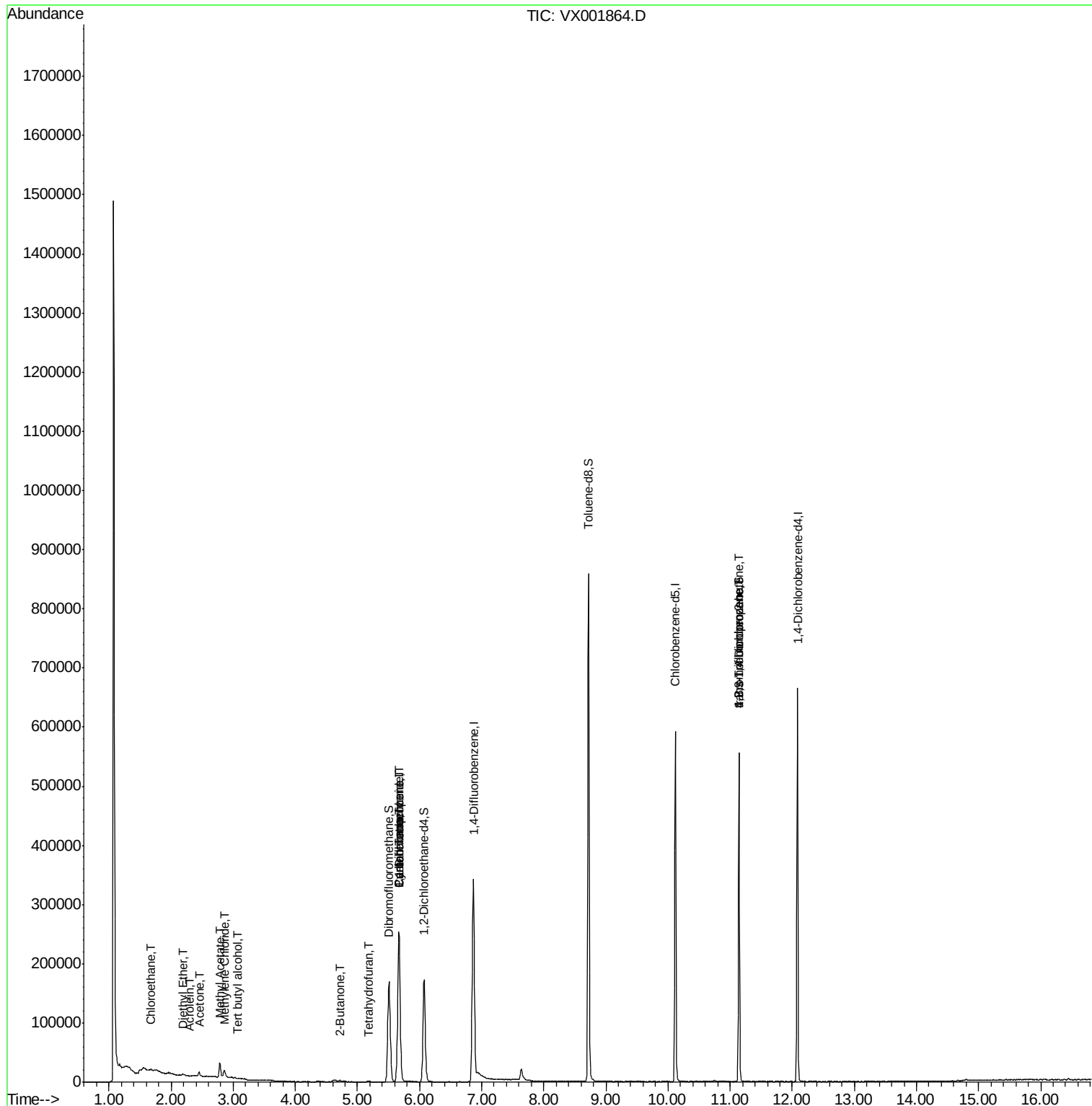
|                                |       |     |       |              |  |    |
|--------------------------------|-------|-----|-------|--------------|--|----|
| Target Compounds               |       |     |       | Qvalue       |  |    |
| 5) Bromomethane                | 1.64  | 94  | 618   | Below Cal    |  | 84 |
| 6) Chloroethane                | 1.68  | 64  | 3255  | 1.58 ug/l #  |  | 50 |
| 8) Diethyl Ether               | 2.20  | 74  | 825   | 0.42 ug/l    |  | 82 |
| 11) Tert butyl alcohol         | 3.08  | 59  | 352   | 0.53 ug/l #  |  | 72 |
| 13) Acrolein                   | 2.29  | 56  | 112   | 0.24 ug/l    |  | 98 |
| 16) Acetone                    | 2.45  | 43  | 8047  | 5.46 ug/l    |  | 94 |
| 18) Methyl Acetate             | 2.78  | 43  | 29228 | 6.79 ug/l    |  | 99 |
| 20) Methylene Chloride         | 2.86  | 84  | 5976  | 1.90 ug/l    |  | 98 |
| 25) 2-Butanone                 | 4.71  | 43  | 2754  | 1.22 ug/l    |  | 94 |
| 29) Tetrahydrofuran            | 5.18  | 42  | 973   | 0.66 ug/l #  |  | 49 |
| 31) Cyclohexane                | 5.66  | 56  | 4088  | 0.87 ug/l #  |  | 1  |
| 36) 1,1-Dichloropropene        | 5.66  | 75  | 15477 | 3.61 ug/l #  |  | 49 |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 22509 | 5.01 ug/l #  |  | 17 |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 65579 | 22.97 ug/l # |  | 40 |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 65579 | 67.25 ug/l # |  | 10 |

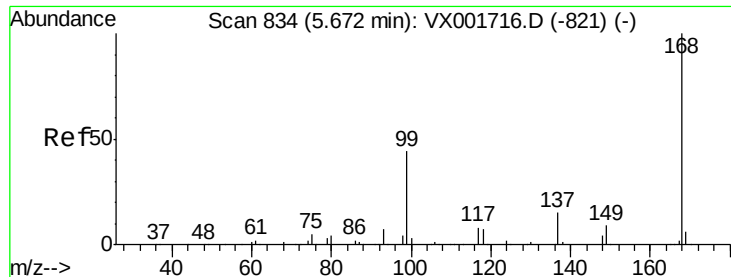
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X051518W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 15 01:36:22 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

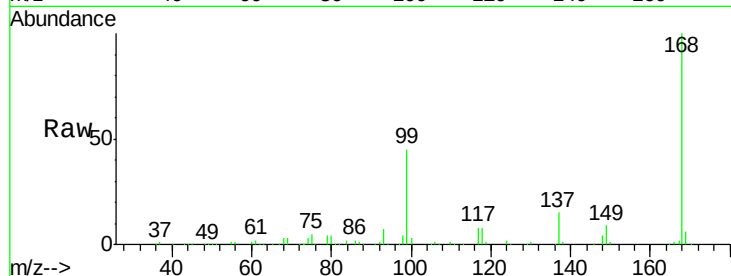
PB109413ZHE#15

Tgt Ion:168 Resp: 279701

Ion Ratio Lower Upper

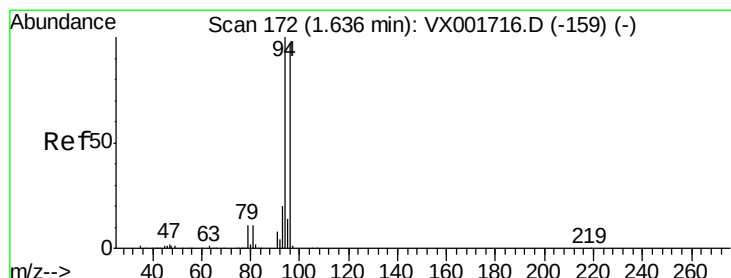
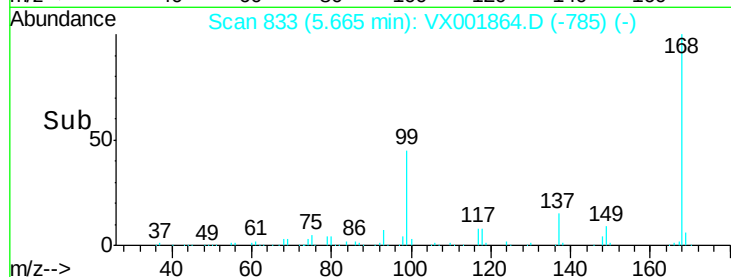
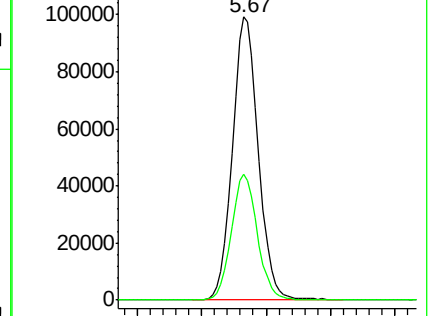
168 100

99 44.7 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX001864.D

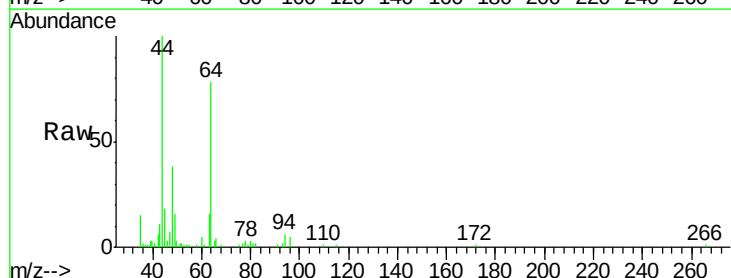
Acq: 19 May 2018 09:07

Tgt Ion: 94 Resp: 618

Ion Ratio Lower Upper

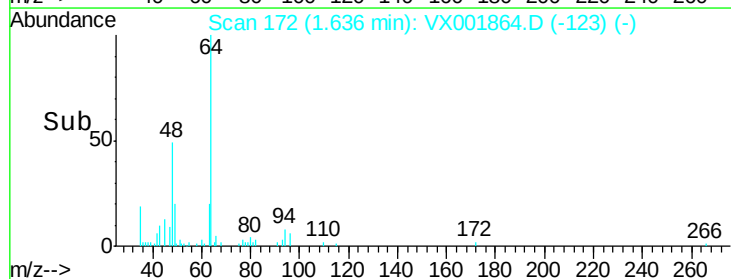
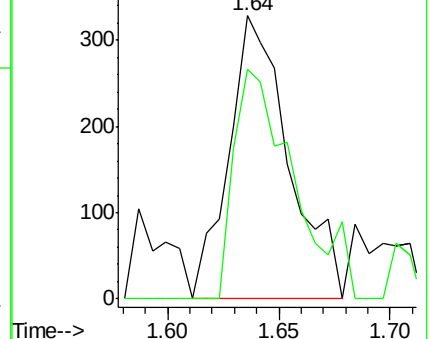
94 100

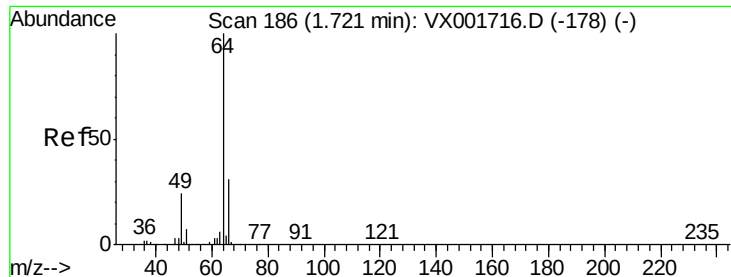
96 81.1 77.4 116.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.58 ug/l

RT: 1.68 min Scan# 179

Delta R.T. -0.04 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

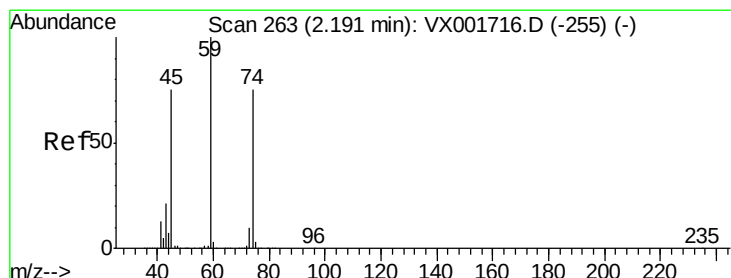
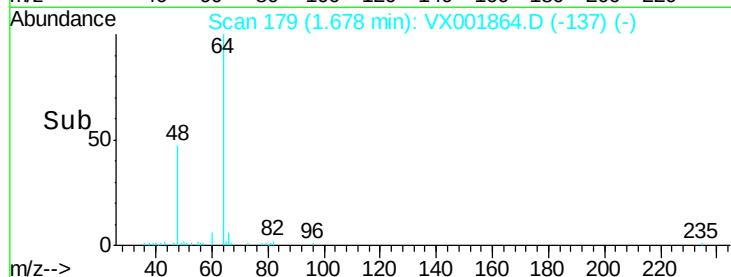
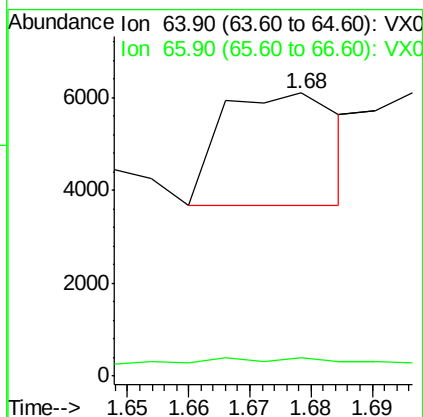
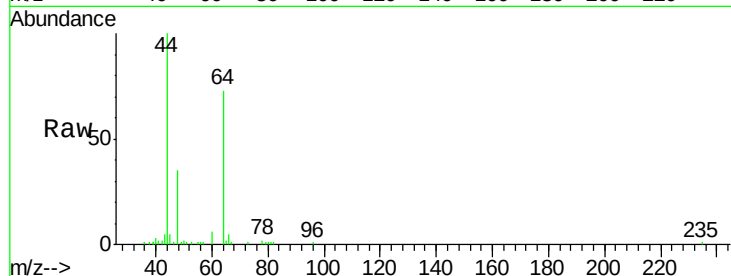
PB109413ZHE#15

Tgt Ion: 64 Resp: 3255

Ion Ratio Lower Upper

64 100

66 3.9 25.2 37.8#



#8

Diethyl Ether

Concen: 0.42 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX001864.D

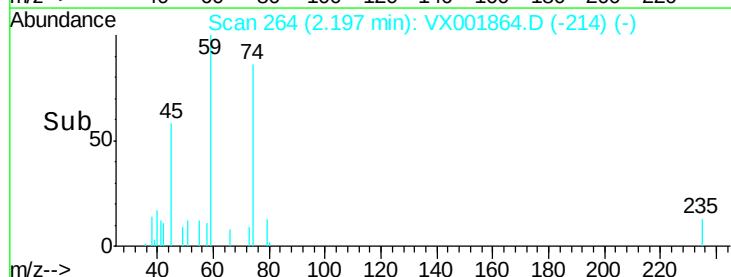
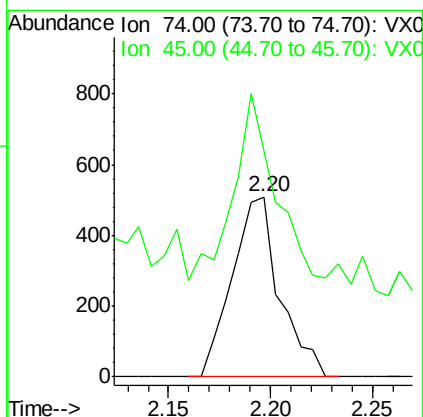
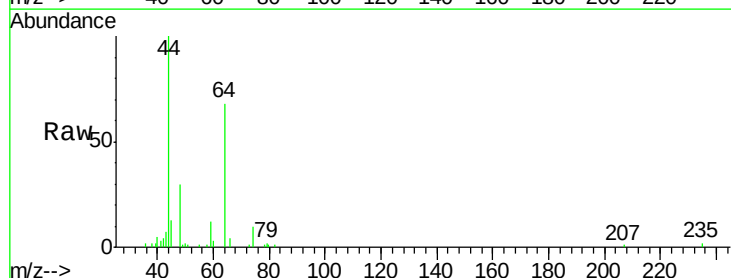
Acq: 19 May 2018 09:07

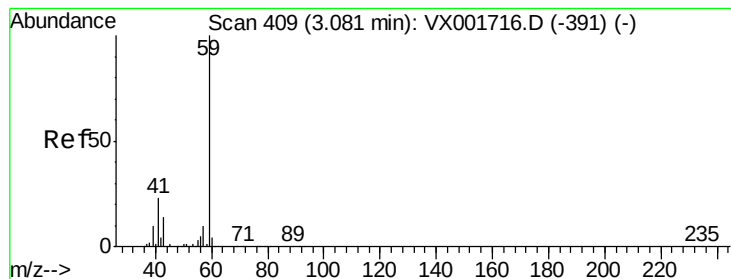
Tgt Ion: 74 Resp: 825

Ion Ratio Lower Upper

74 100

45 82.2 50.0 149.8





#11

Tert butyl alcohol

Concen: 0.53 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.00 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

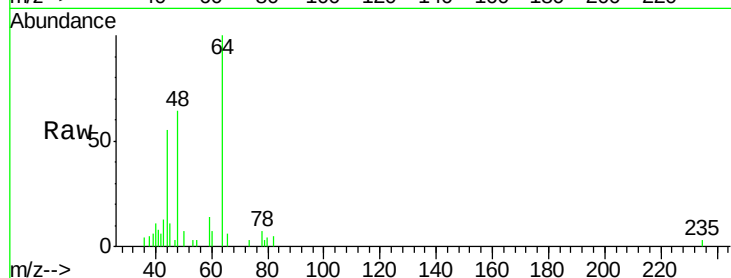
PB109413ZHE#15

Tgt Ion: 59 Resp: 352

Ion Ratio Lower Upper

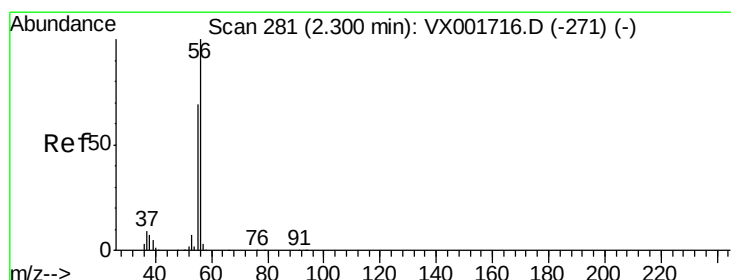
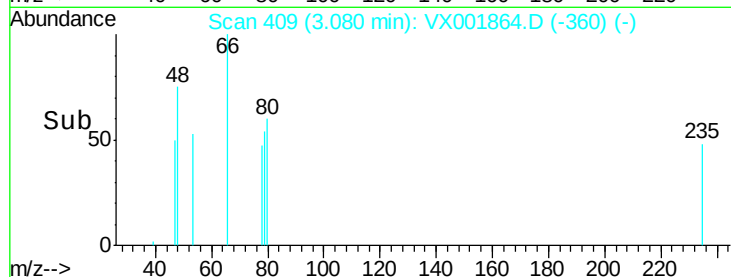
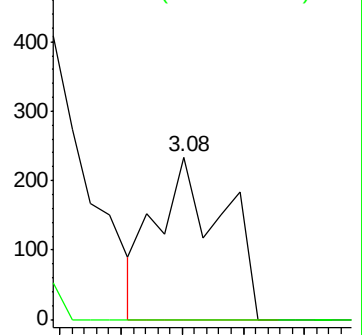
59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.24 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001864.D

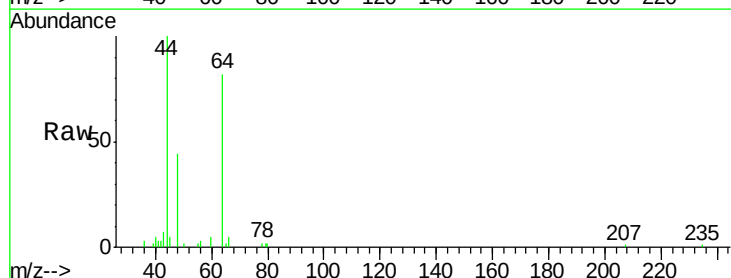
Acq: 19 May 2018 09:07

Tgt Ion: 56 Resp: 112

Ion Ratio Lower Upper

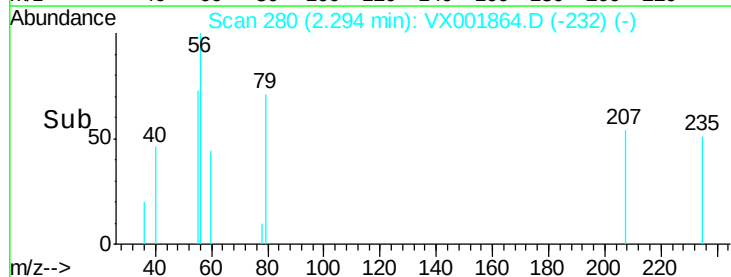
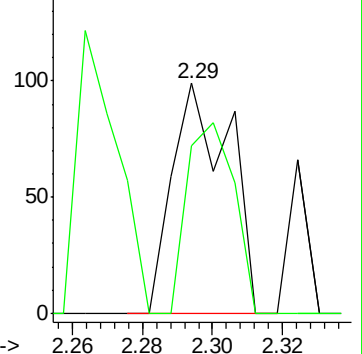
56 100

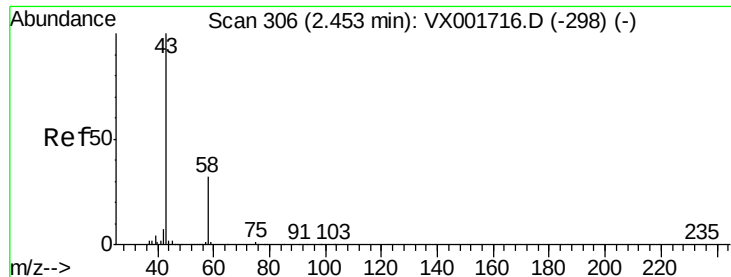
55 68.8 56.2 84.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 5.46 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

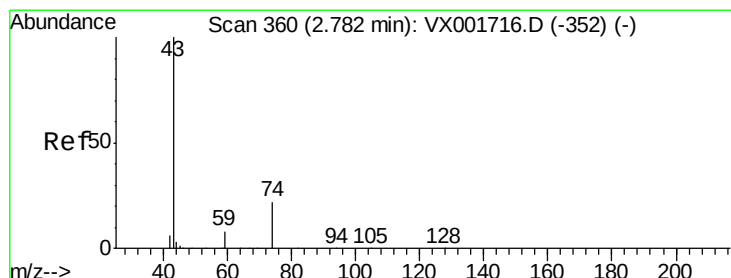
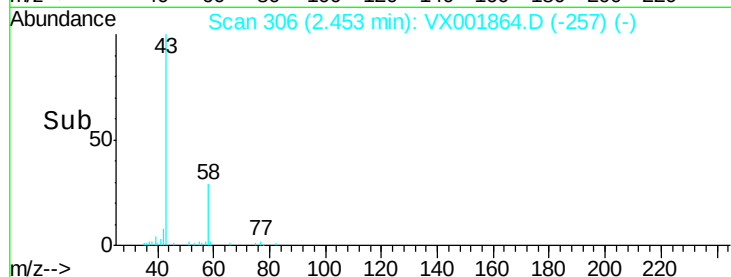
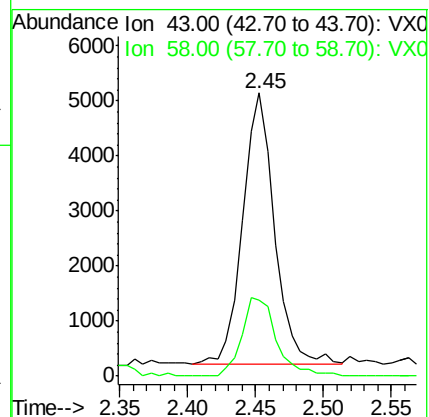
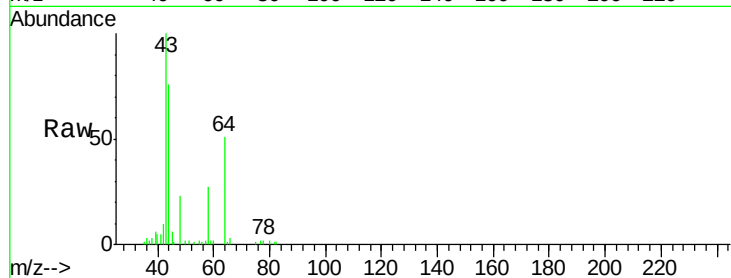
PB109413ZHE#15

Tgt Ion: 43 Resp: 8047

Ion Ratio Lower Upper

43 100

58 28.1 25.3 37.9



#18

Methyl Acetate

Concen: 6.79 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX001864.D

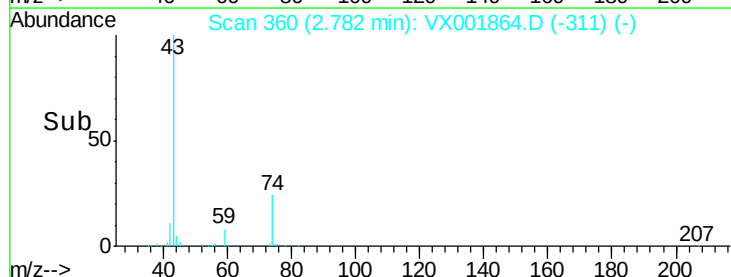
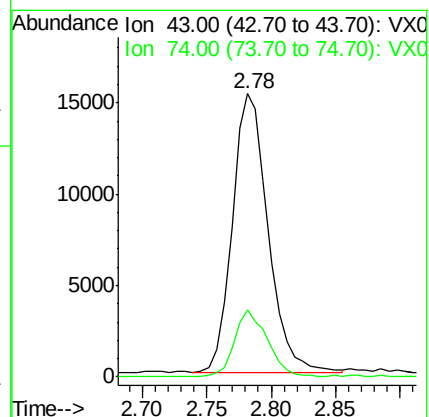
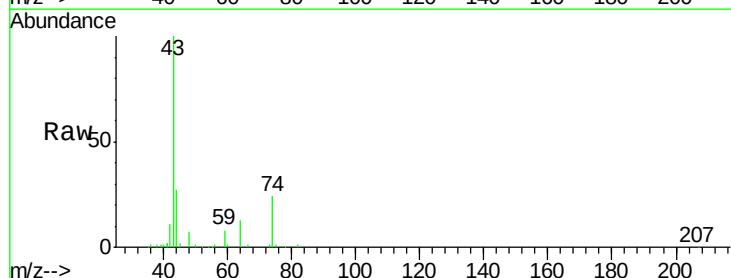
Acq: 19 May 2018 09:07

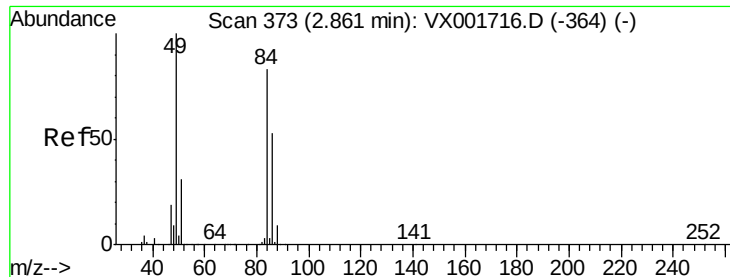
Tgt Ion: 43 Resp: 29228

Ion Ratio Lower Upper

43 100

74 22.4 18.2 27.2

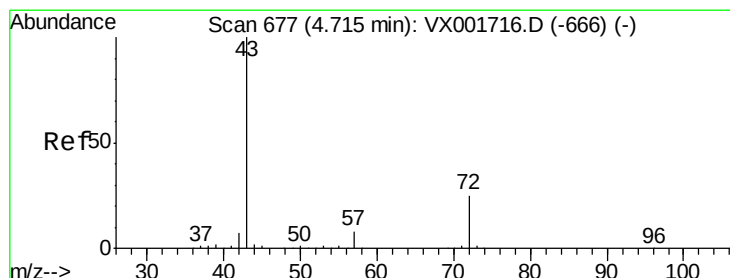
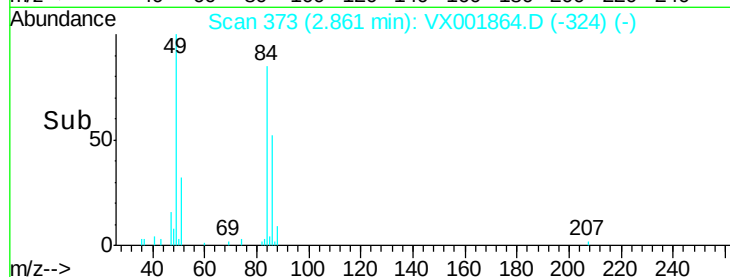
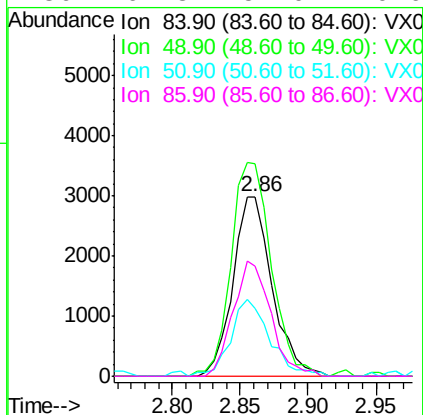
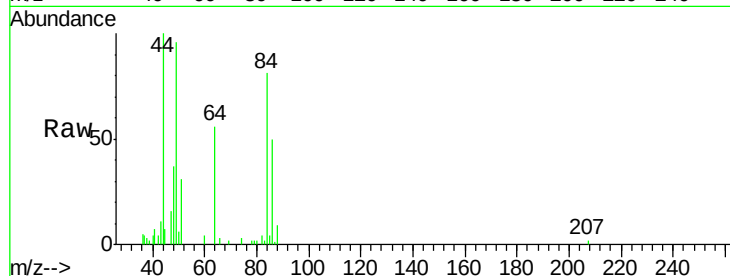




#20  
Methylene Chloride  
Concen: 1.90 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. -0.00 min  
Lab File: VX001864.D  
Acq: 19 May 2018 09:07

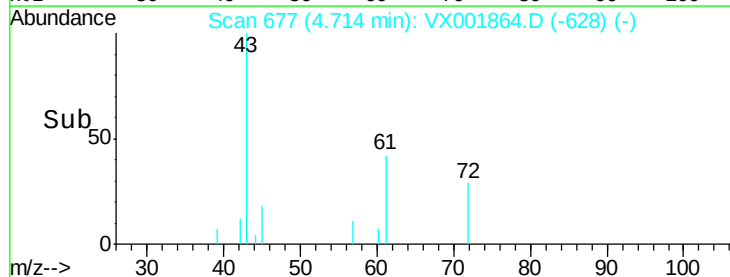
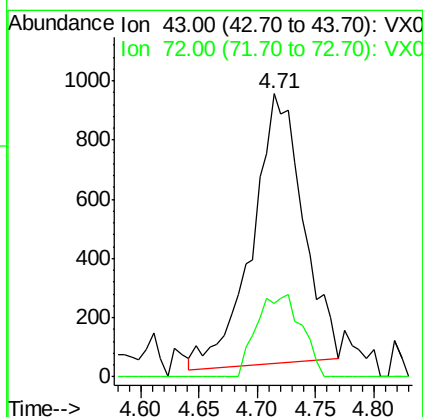
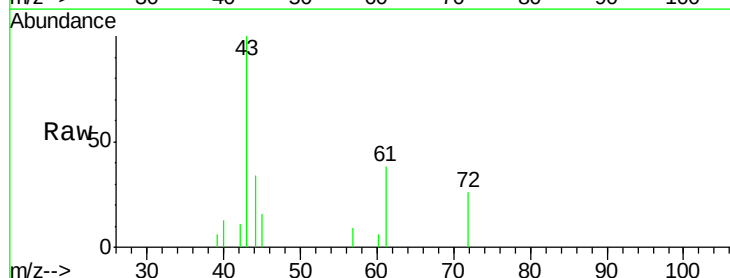
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB109413ZHE#15

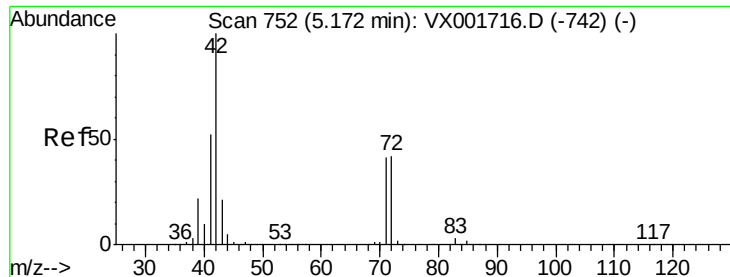
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5976  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.3 | 96.3  | 144.5 |
| 51       | 37.8  | 29.8  | 44.6  |
| 86       | 61.3  | 51.0  | 76.6  |



#25  
2-Butanone  
Concen: 1.22 ug/l  
RT: 4.71 min Scan# 677  
Delta R.T. -0.00 min  
Lab File: VX001864.D  
Acq: 19 May 2018 09:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2754  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 27.7  | 19.8  | 29.6  |





#29

Tetrahydrofuran

Concen: 0.66 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

PB109413ZHE#15

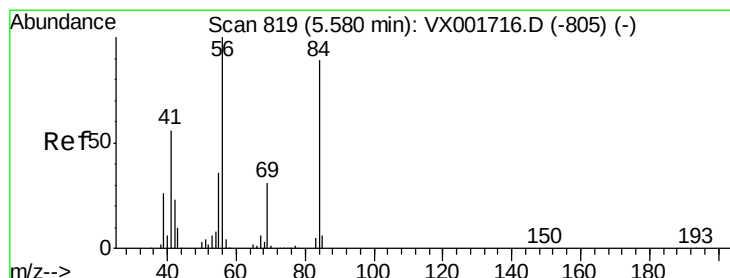
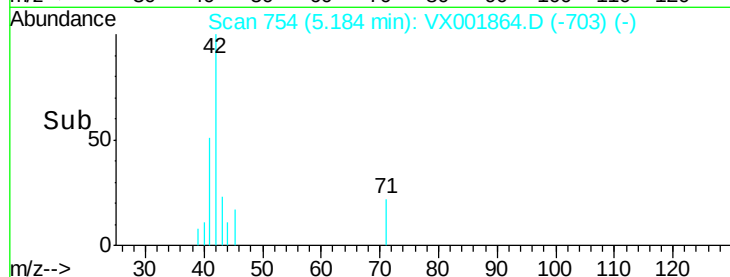
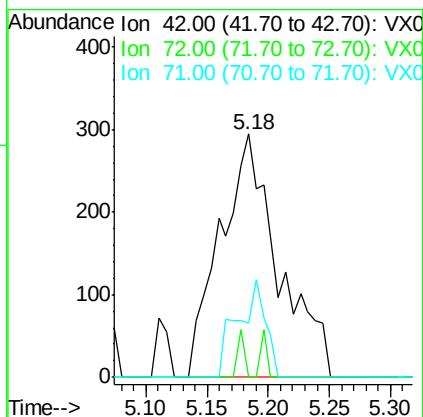
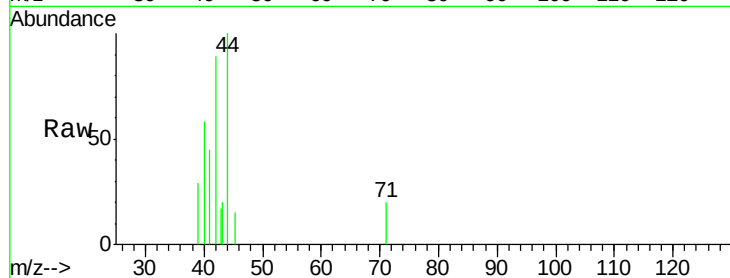
Tgt Ion: 42 Resp: 973

Ion Ratio Lower Upper

42 100

72 2.2 35.4 53.2#

71 19.4 33.2 49.8#



#31

Cyclohexane

Concen: 0.87 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

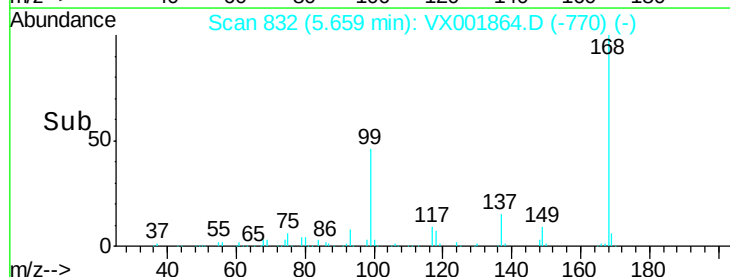
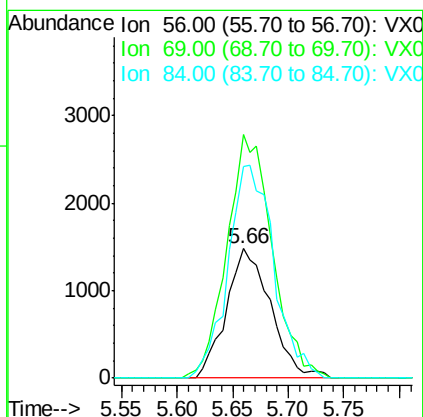
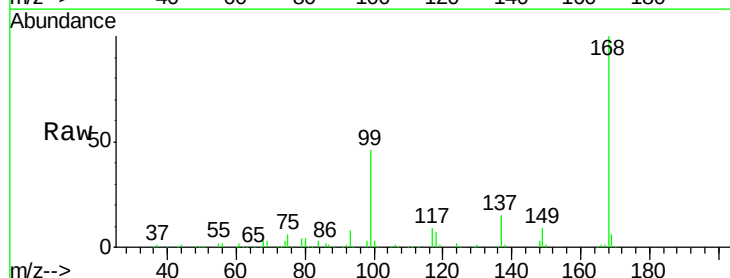
Tgt Ion: 56 Resp: 4088

Ion Ratio Lower Upper

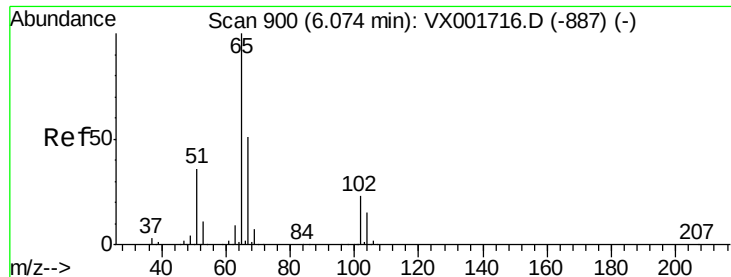
56 100

69 188.0 25.0 37.6#

84 163.9 71.0 106.4#



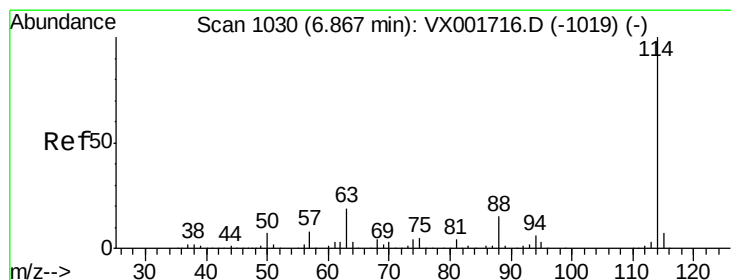
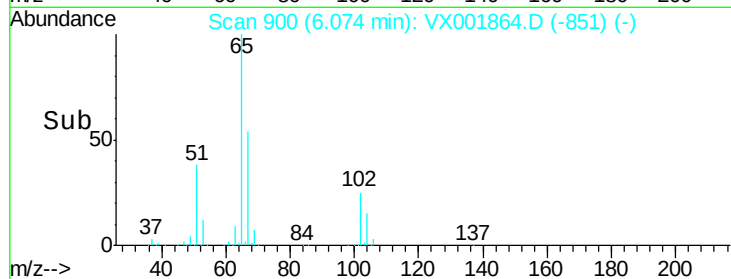
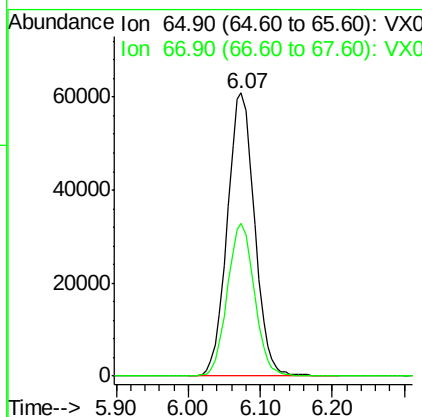
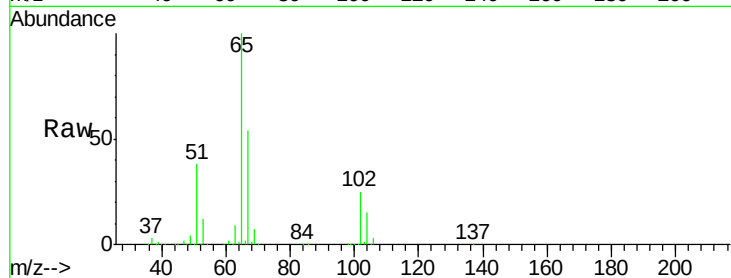




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.87 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. -0.00 min  
 Lab File: VX001864.D  
 Acq: 19 May 2018 09:07

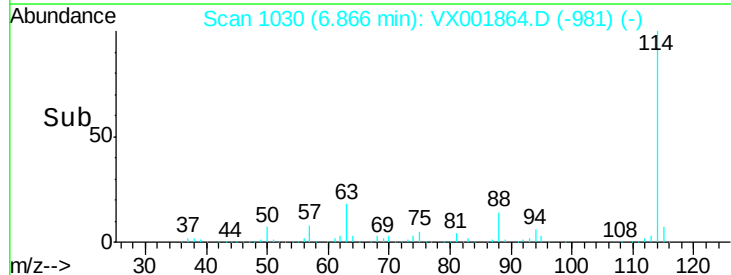
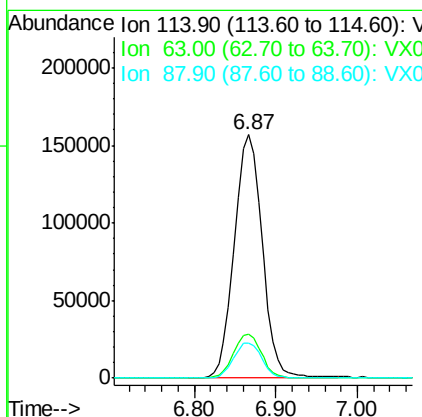
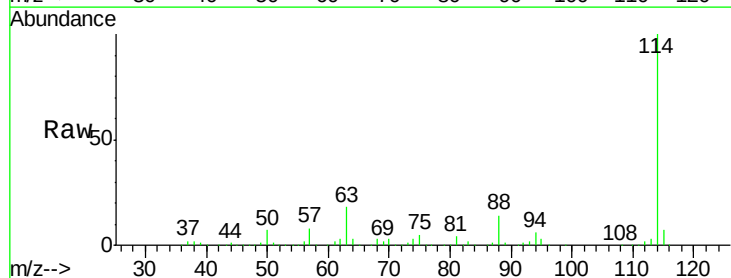
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB109413ZHE#15

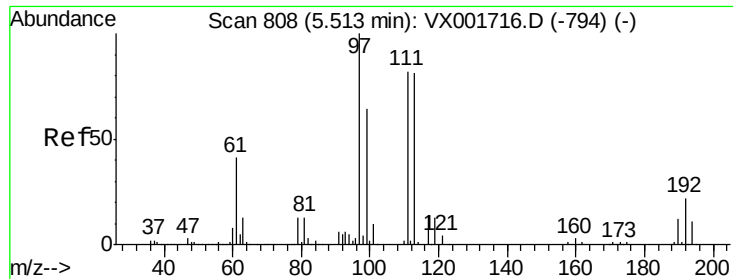
Tgt Ion: 65 Resp: 160738  
 Ion Ratio Lower Upper  
 65 100  
 67 53.7 0.0 102.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX001864.D  
 Acq: 19 May 2018 09:07

Tgt Ion: 114 Resp: 372665  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 37.0  
 88 14.3 0.0 29.8

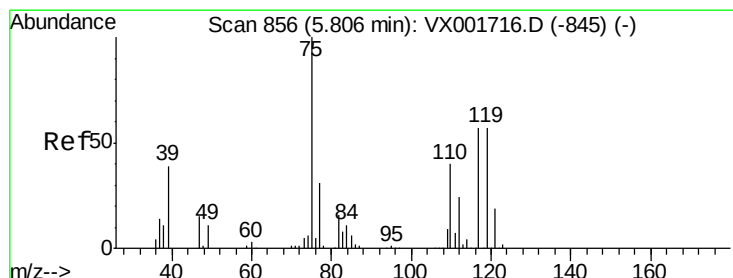
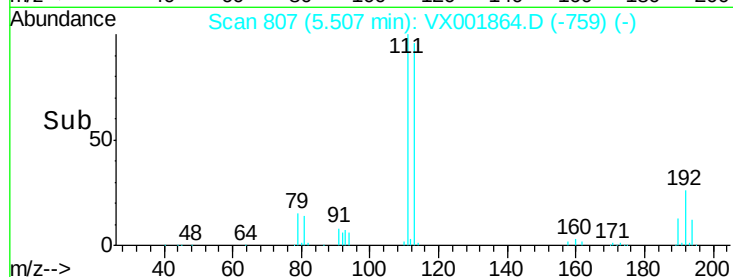
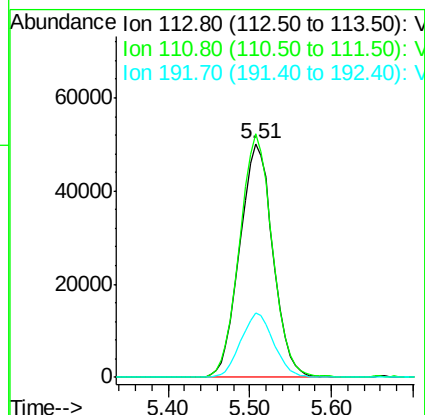
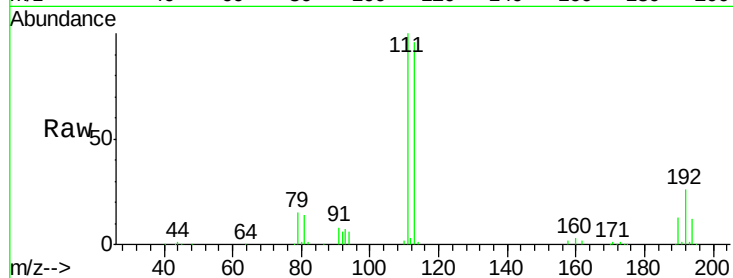




#35  
 Dibromofluoromethane  
 Concen: 45.13 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. -0.01 min  
 Lab File: VX001864.D  
 Acq: 19 May 2018 09:07

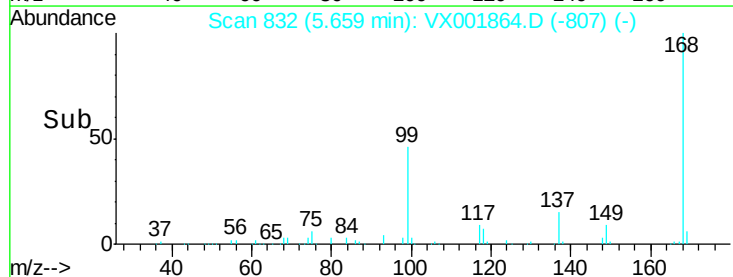
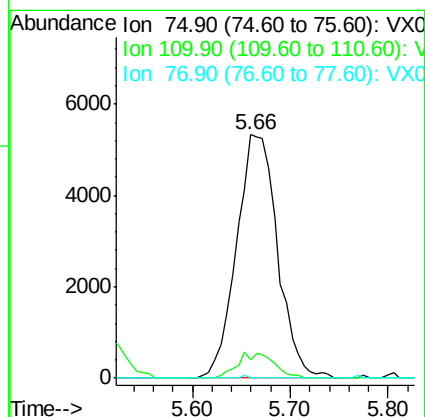
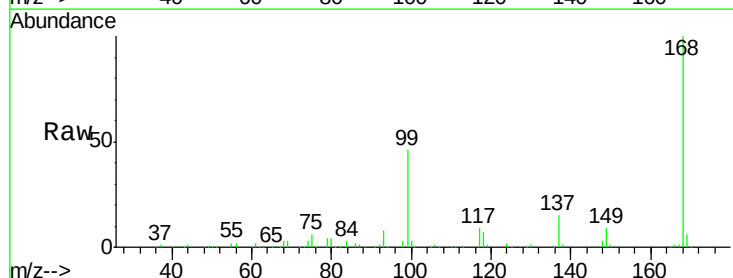
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB109413ZHE#15

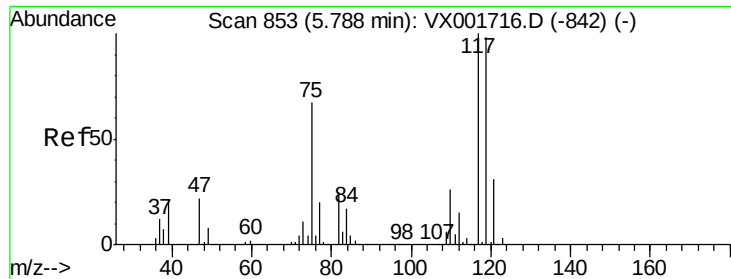
Tgt Ion:113 Resp: 141934  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.0 123.0  
 192 27.2 21.6 32.4



#36  
 1,1-Dichloropropene  
 Concen: 3.61 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.15 min  
 Lab File: VX001864.D  
 Acq: 19 May 2018 09:07

Tgt Ion: 75 Resp: 15477  
 Ion Ratio Lower Upper  
 75 100  
 110 9.3 19.1 57.1#  
 77 0.1 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.01 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

PB109413ZHE#15

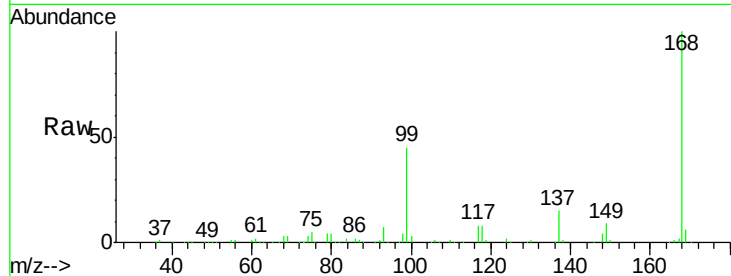
Tgt Ion:117 Resp: 22509

Ion Ratio Lower Upper

117 100

119 6.8 77.6 116.4#

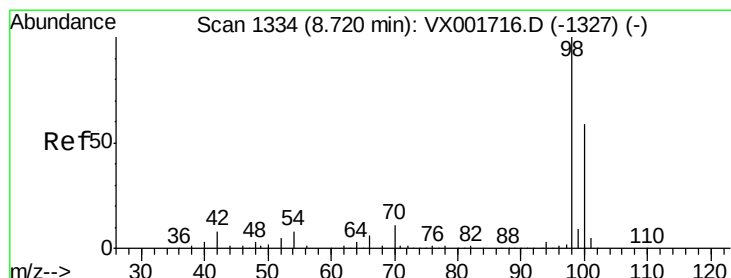
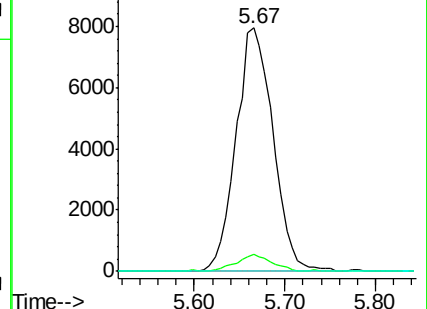
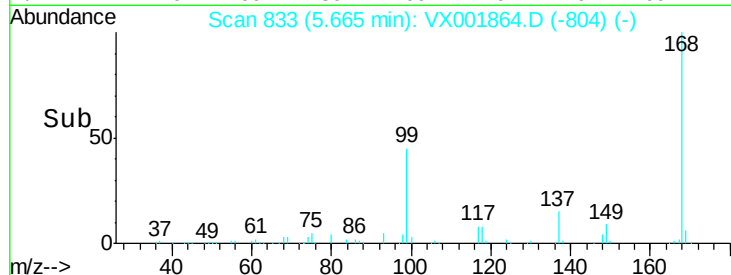
121 0.0 24.6 36.8#



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: 46.18 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX001864.D

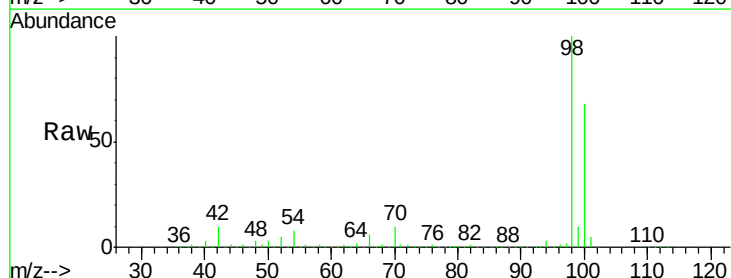
Acq: 19 May 2018 09:07

Tgt Ion: 98 Resp: 520157

Ion Ratio Lower Upper

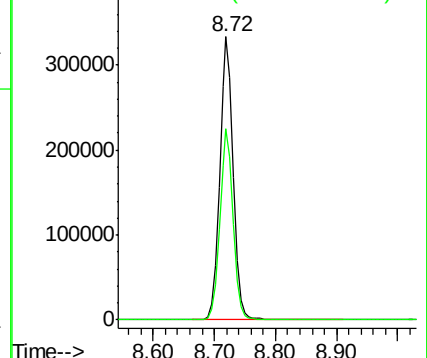
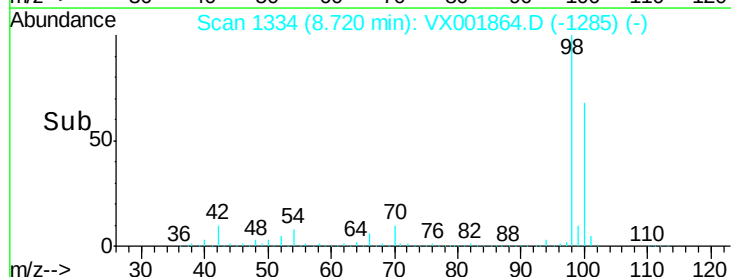
98 100

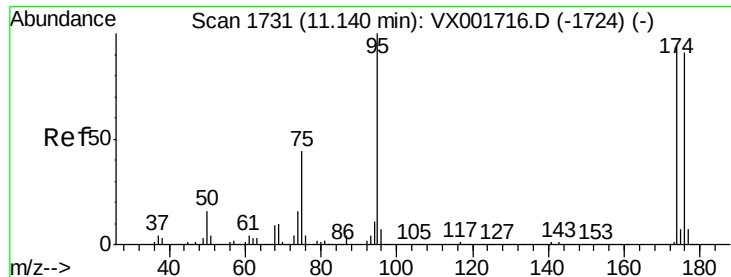
100 66.6 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 34.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

PB109413ZHE#15

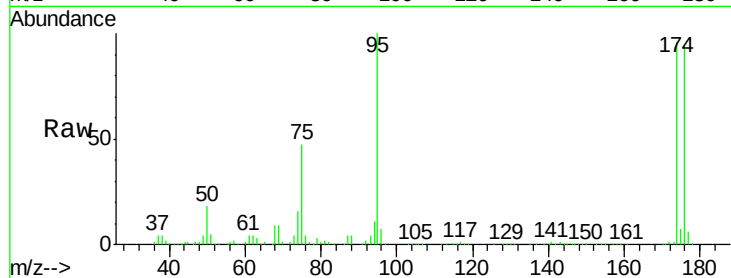
Tgt Ion: 95 Resp: 140065

Ion Ratio Lower Upper

95 100

174 104.4 0.0 201.8

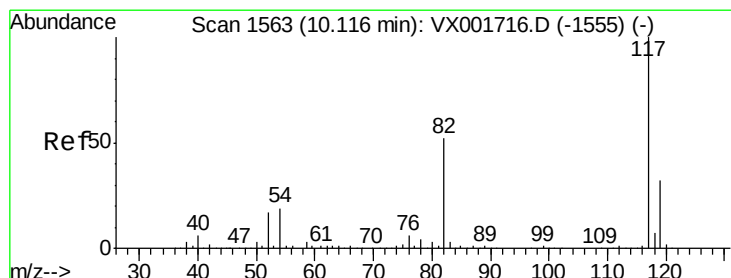
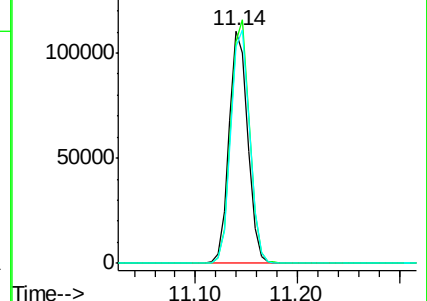
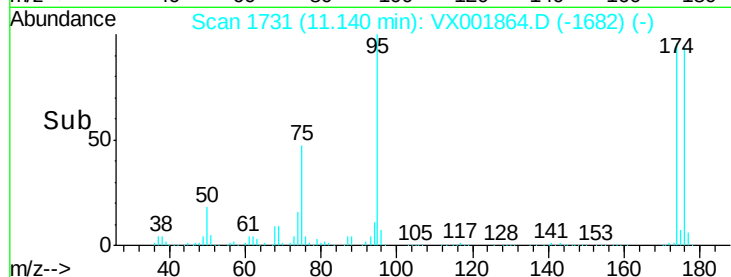
176 101.1 0.0 196.8



Abundance Ion 94.90 (94.60 to 95.60): VX001864.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX001864.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX001864.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

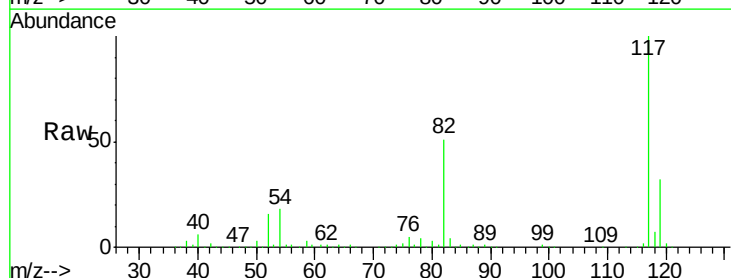
Tgt Ion: 117 Resp: 285561

Ion Ratio Lower Upper

117 100

82 50.9 41.4 62.2

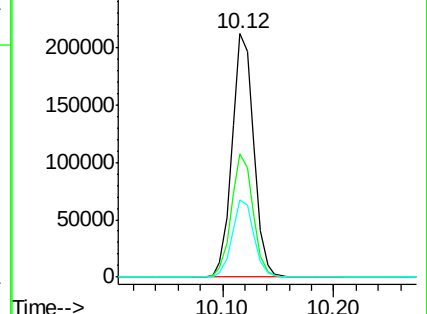
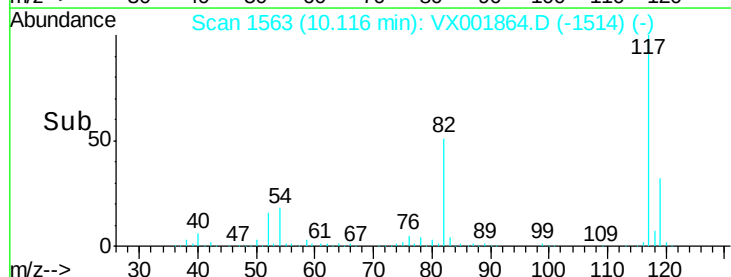
119 32.0 25.6 38.4

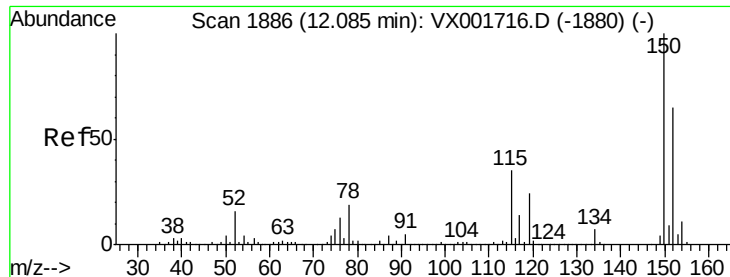


Abundance Ion 116.90 (116.60 to 117.60): VX001864.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX001864.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX001864.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

PB109413ZHE#15

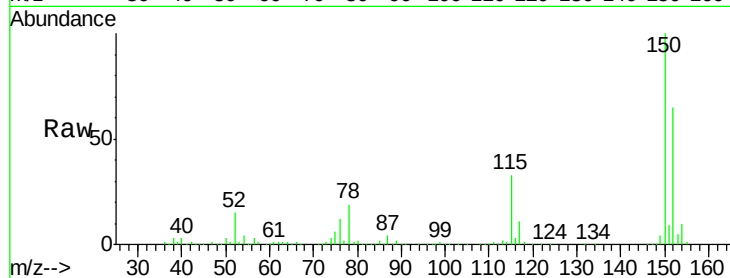
Tgt Ion:152 Resp: 150108

Ion Ratio Lower Upper

152 100

115 50.9 37.4 112.2

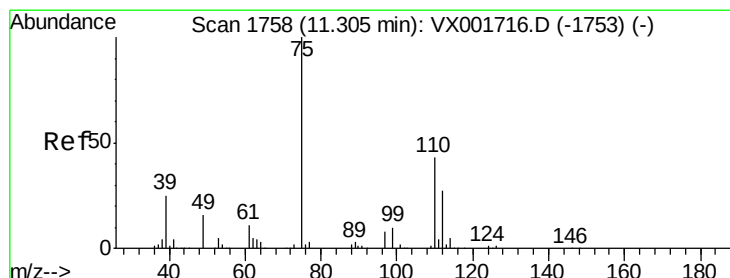
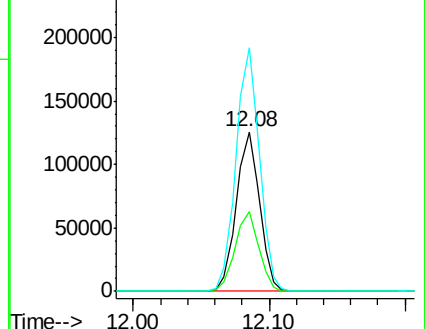
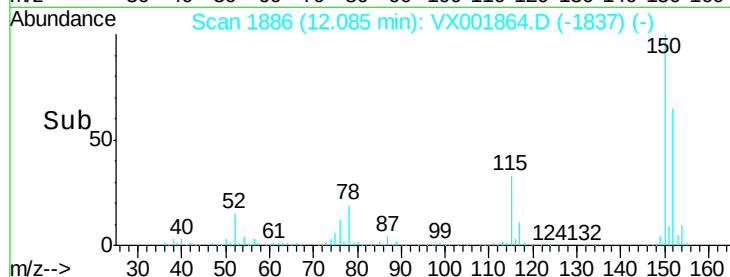
150 153.8 0.0 344.8



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: 22.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001864.D

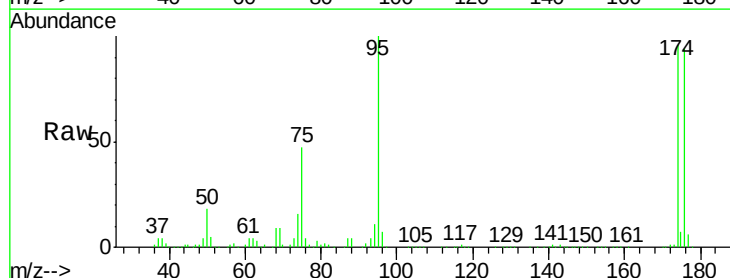
Acq: 19 May 2018 09:07

Tgt Ion: 75 Resp: 65579

Ion Ratio Lower Upper

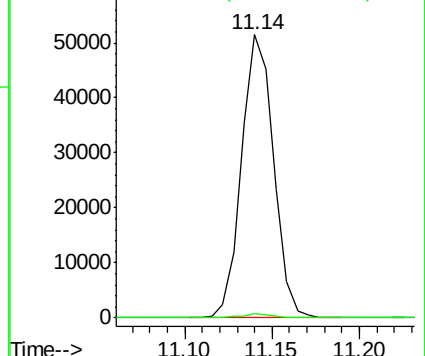
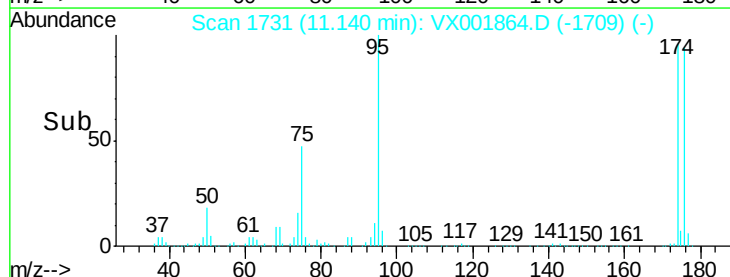
75 100

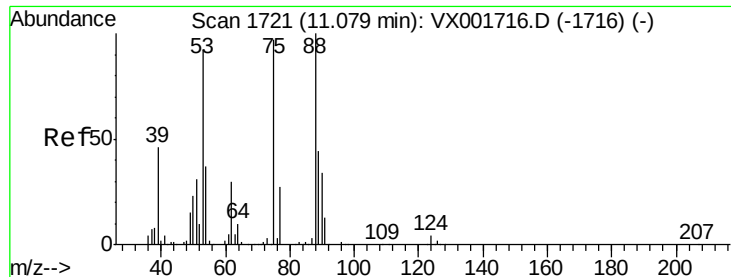
77 1.4 18.9 56.7#



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: 67.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001864.D

Acq: 19 May 2018 09:07

Instrument :

MSVOA\_X

ClientSampleId :

PB109413ZHE#15

Tgt Ion: 75 Resp: 65579

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.2#

89 0.0 38.8 58.2#

