

Data File : VW006812.D  
Acq On : 12 Nov 2018 17:48  
Operator : SY/AP  
Sample : J5807-23DL 4X  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILD

Quant Time: Nov 13 02:44:35 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 14:58:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 303178   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 404401   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 389909   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 219105   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 98747    | 44.55 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.10% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 106641   | 44.28 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.56% |      |
| 50) Toluene-d8            | 10.33  | 98  | 445717   | 44.66 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.32% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 160492   | 43.66 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.32% |      |

#### Target Compounds

|                              |       |     |        |         |        | Qvalue |
|------------------------------|-------|-----|--------|---------|--------|--------|
| 11) Tert butyl alcohol       | 5.20  | 59  | 484    | 3.327   | ug/l # | 72     |
| 15) Acrylonitrile            | 5.43  | 53  | 2903   | 6.534   | ug/l # | 8      |
| 16) Acetone                  | 4.14  | 43  | 73629  | 231.324 | ug/l   | 99     |
| 19) Methyl tert-butyl Ether  | 5.43  | 73  | 221567 | 40.753  | ug/l   | 98     |
| 20) Methylene Chloride       | 4.92  | 84  | 139015 | 47.740  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene | 5.43  | 96  | 125963 | 46.640  | ug/l   | 99     |
| 22) Diisopropyl ether        | 6.32  | 45  | 250537 | 40.051  | ug/l   | 98     |
| 23) Vinyl Acetate            | 6.32  | 43  | 131709 | 37.349  | ug/l # | 70     |
| 24) 1,1-Dichloroethane       | 6.22  | 63  | 46262  | 11.151  | ug/l   | 99     |
| 25) 2-Butanone               | 7.18  | 43  | 49940  | 92.775  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene   | 7.18  | 96  | 59348  | 20.612  | ug/l   | 90     |
| 28) Bromochloromethane       | 7.52  | 49  | 52580  | 36.233  | ug/l   | 100    |
| 29) Tetrahydrofuran          | 7.54  | 42  | 588    | 1.707   | ug/l # | 68     |
| 30) Chloroform               | 7.68  | 83  | 146624 | 32.369  | ug/l   | 96     |
| 31) Cyclohexane              | 7.95  | 56  | 5283   | 1.244   | ug/l # | 17     |
| 32) 1,1,1-Trichloroethane    | 7.88  | 97  | 194444 | 44.471  | ug/l   | 100    |
| 36) 1,1-Dichloropropene      | 7.95  | 75  | 18322  | 4.841   | ug/l # | 47     |
| 37) Ethyl Acetate            | 7.18  | 43  | 49940  | 40.356  | ug/l # | 1      |
| 38) Carbon Tetrachloride     | 7.95  | 117 | 25602  | 6.224   | ug/l # | 16     |
| 40) Benzene                  | 8.33  | 78  | 463930 | 44.086  | ug/l   | 99     |
| 42) 1,2-Dichloroethane       | 8.40  | 62  | 124798 | 44.264  | ug/l   | 100    |
| 43) Isopropyl Acetate        | 8.51  | 43  | 24788  | 10.300  | ug/l # | 8      |
| 44) Trichloroethene          | 9.10  | 130 | 60370  | 18.181  | ug/l   | 100    |
| 45) 1,2-Dichloropropane      | 9.37  | 63  | 48614  | 19.821  | ug/l   | 98     |
| 46) Dibromomethane           | 9.46  | 93  | 31582  | 23.133  | ug/l   | 99     |
| 48) Methyl methacrylate      | 9.37  | 41  | 25743  | 21.817  | ug/l # | 26     |
| 49) 1,4-Dioxane              | 9.46  | 88  | 250    | 12.121  | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone     | 10.21 | 43  | 110136 | 91.264  | ug/l   | 98     |
| 52) Toluene                  | 10.39 | 92  | 328631 | 44.051  | ug/l   | 99     |
| 53) t-1,3-Dichloropropene    | 10.61 | 75  | 35639  | 10.691  | ug/l   | 100    |
| 54) cis-1,3-Dichloropropene  | 10.08 | 75  | 107223 | 27.125  | ug/l   | 99     |
| 59) 2-Hexanone               | 10.98 | 43  | 28074  | 33.727  | ug/l   | 100    |
| 60) Dibromochloromethane     | 11.13 | 129 | 33641  | 13.571  | ug/l   | 99     |
| 61) 1,2-Dibromoethane        | 11.24 | 107 | 59762  | 31.061  | ug/l   | 98     |

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Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILDL

Quant Time: Nov 13 02:44:35 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 14:58:58 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 64) Tetrachloroethene          | 10.87 | 164  | 62661    | 20.054  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 333634   | 38.570  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 41800    | 14.892  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.84 | 91   | 443716   | 30.089  | ug/l # | 64       |
| 68) m/p-Xylenes                | 11.84 | 106  | 228397   | 37.854  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 217254   | 38.689  | ug/l   | 98       |
| 70) Styrene                    | 12.17 | 104  | 12181    | 1.355   | ug/l # | 1        |
| 71) Bromoform                  | 12.35 | 173  | 47072    | 30.729  | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 13389    | 6.364   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 77525    | 49.097  | ug/l # | 100      |
| 78) n-propylbenzene            | 12.81 | 91   | 315468   | 17.575  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.81 | 91   | 315468   | 31.325  | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 77525    | 121.445 | ug/l # | 13       |
| 82) 4-Chlorotoluene            | 12.81 | 91   | 315468   | 29.359  | ug/l # | 38       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 327140   | 21.961  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 106936   | 13.684  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.51 | 146  | 106936   | 13.831  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 208636   | 30.656  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6208     | 18.431  | ug/l   | 98       |
| 95) Naphthalene                | 15.38 | 128  | 171557   | 22.324  | ug/l   | 100      |

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

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```
ALS Vial      : 8      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
PT-VOA-SOILD

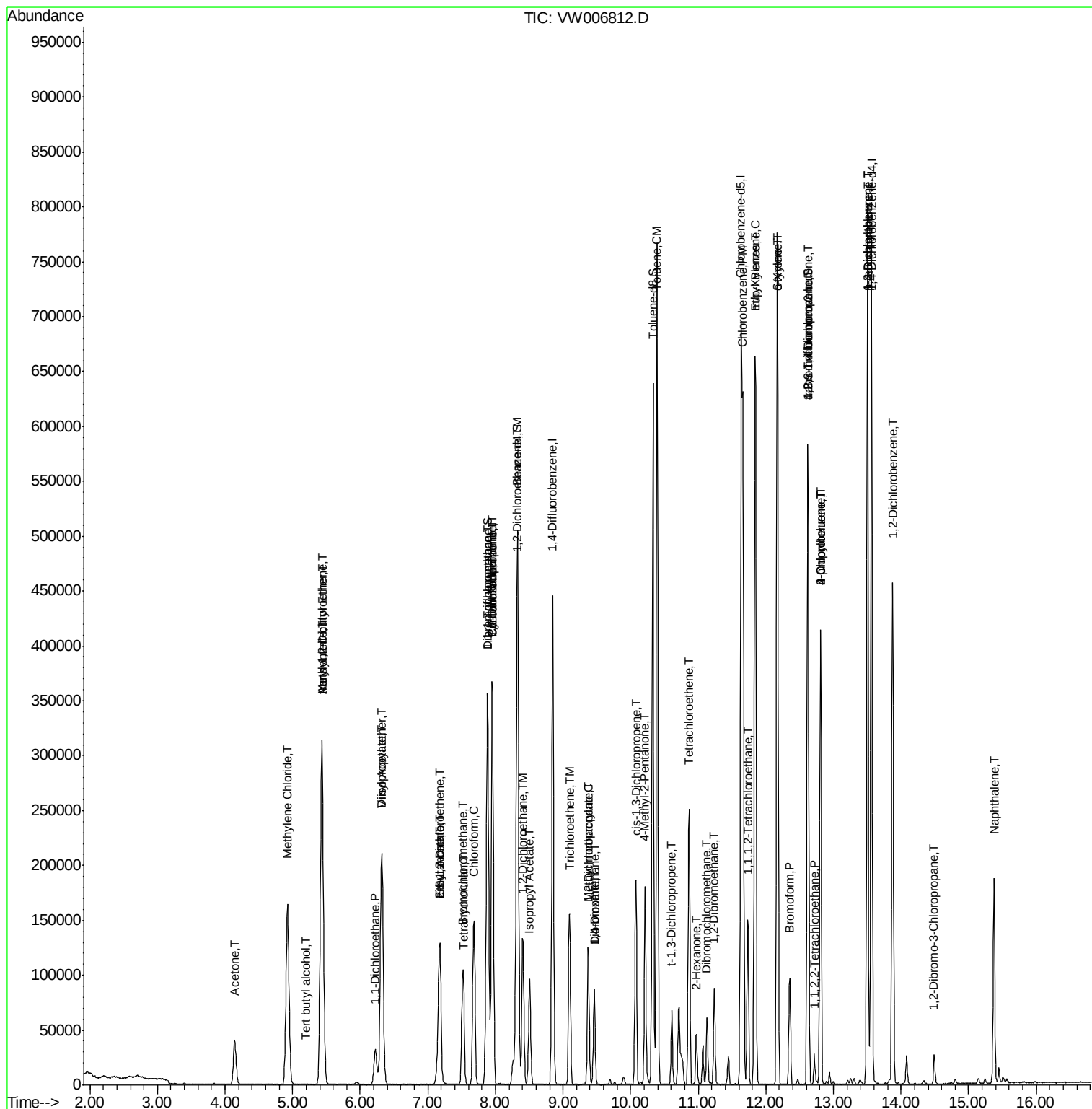
Quant Time: Nov 13 02:44:35 2018

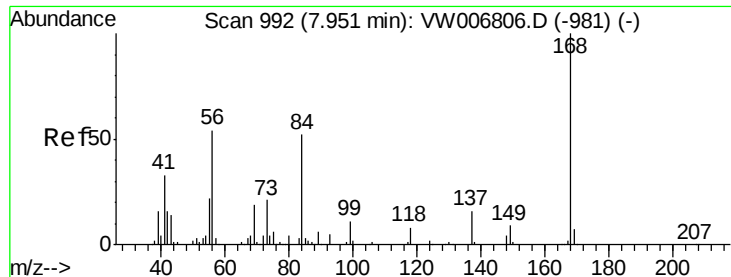
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA W\METHOD\82W111218S.M

Quant Title : SW846 8260

QLast Update : Mon Nov 12 14:58:58 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

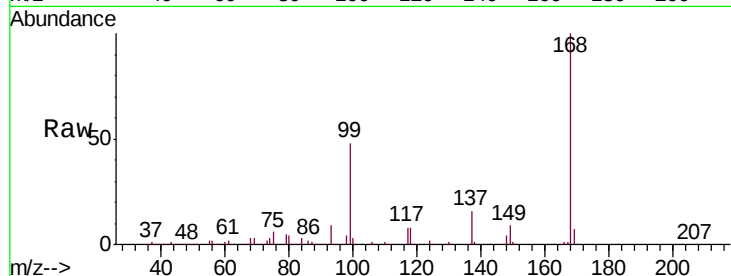
PT-VOA-SOILDL

Tgt Ion:168 Resp: 303178

Ion Ratio Lower Upper

168 100

99 47.9 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

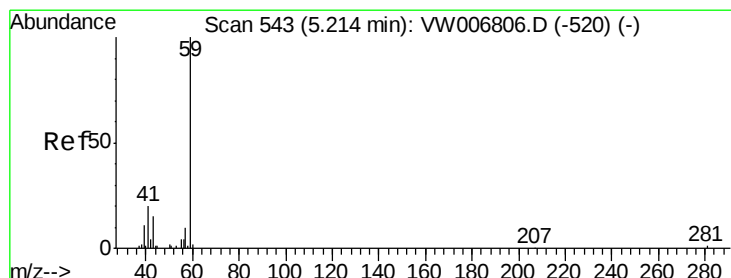
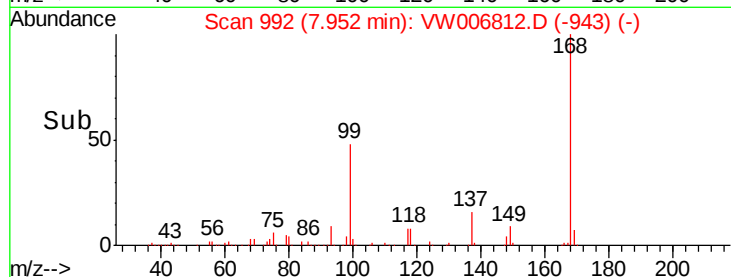
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.327 ug/l

RT: 5.20 min Scan# 540

Delta R.T. -0.02 min

Lab File: VW006812.D

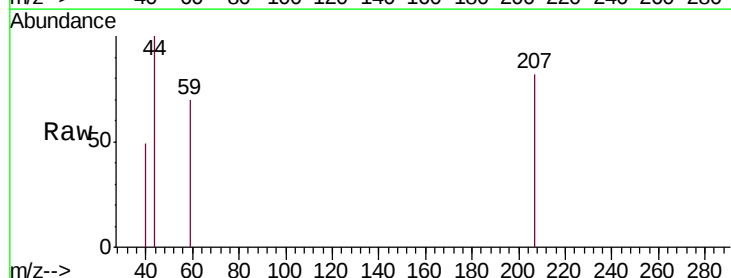
Acq: 12 Nov 2018 17:48

Tgt Ion: 59 Resp: 484

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.20

200

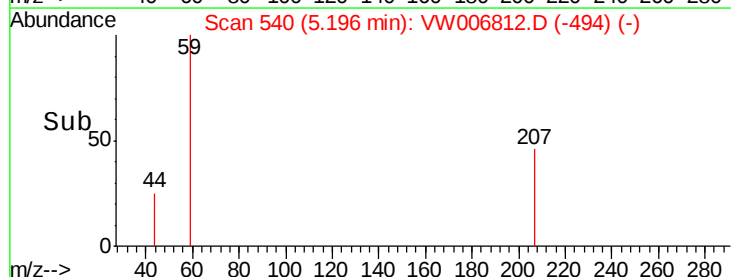
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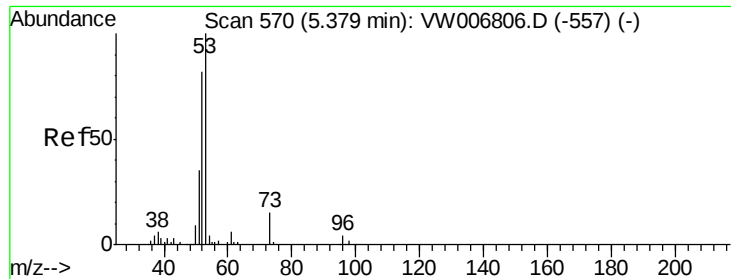
100

50

0

Time-->





#15

Acrylonitrile

Concen: 6.534 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.05 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILDL

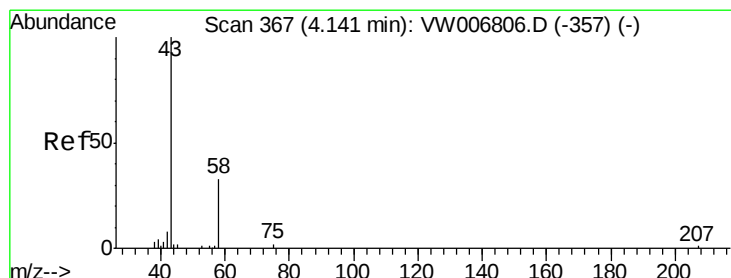
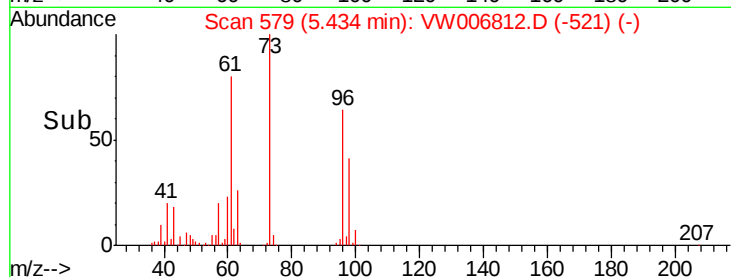
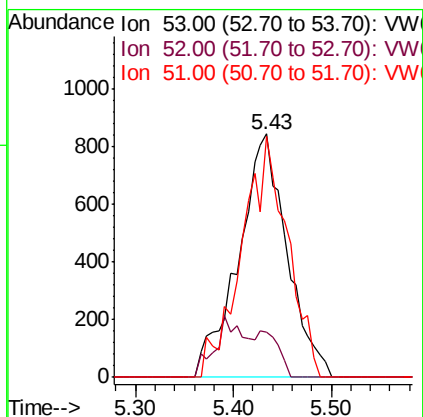
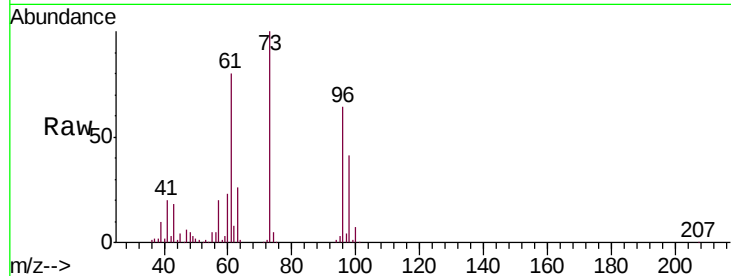
Tgt Ion: 53 Resp: 2903

Ion Ratio Lower Upper

53 100

52 0.0 65.2 97.8#

51 93.0 30.0 45.0#



#16

Acetone

Concen: 231.324 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.00 min

Lab File: VW006812.D

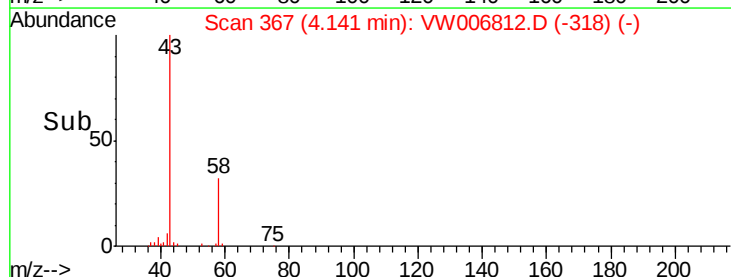
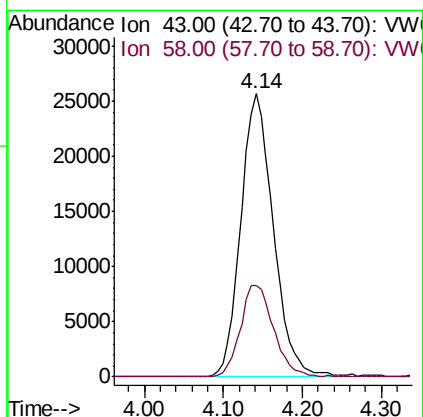
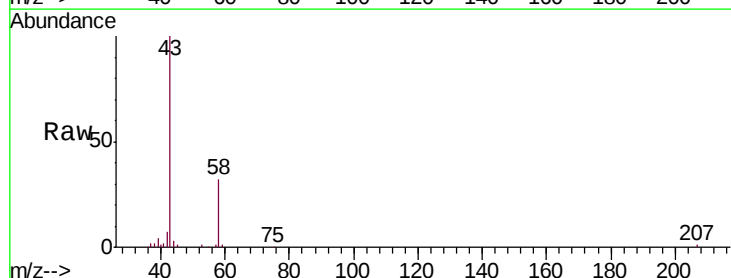
Acq: 12 Nov 2018 17:48

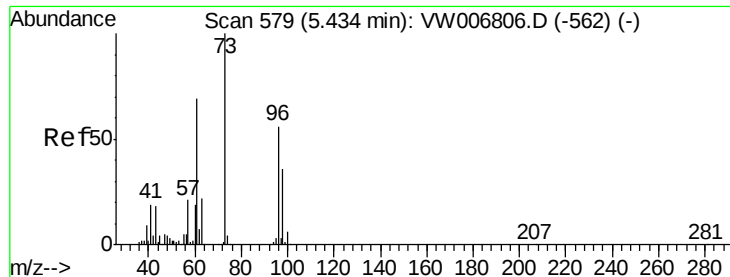
Tgt Ion: 43 Resp: 73629

Ion Ratio Lower Upper

43 100

58 32.5 26.5 39.7



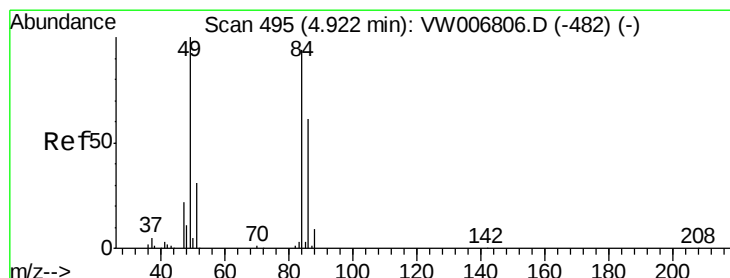
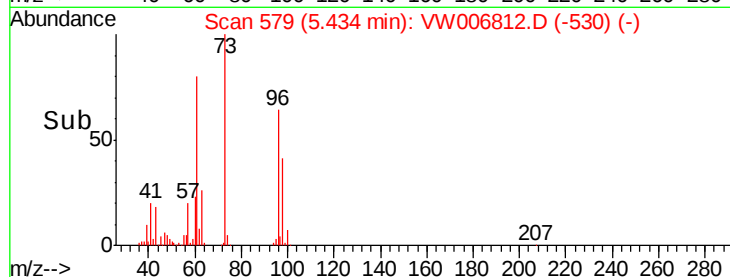
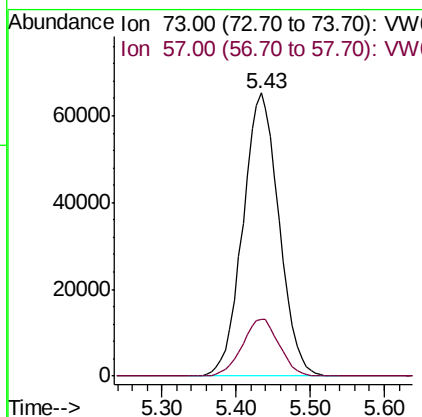
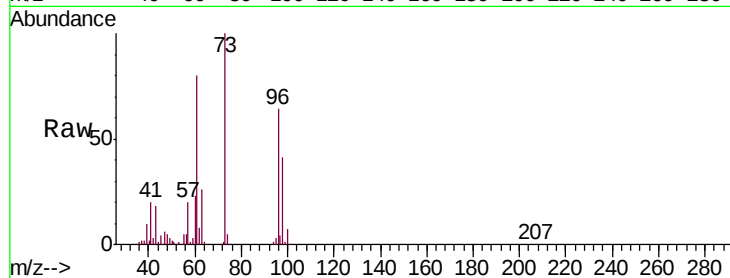


#19

Methyl tert-butyl Ether  
 Concen: 40.753 ug/l  
 RT: 5.43 min Scan# 579  
 Delta R.T. 0.00 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PT-VOA-SOILD

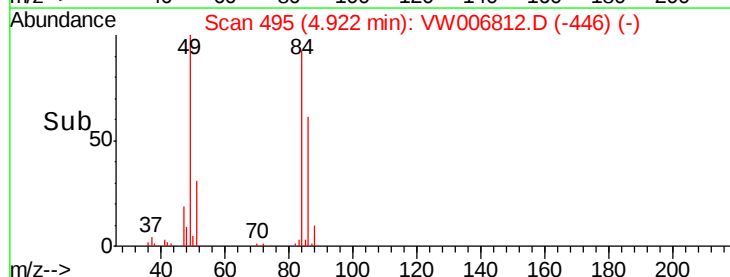
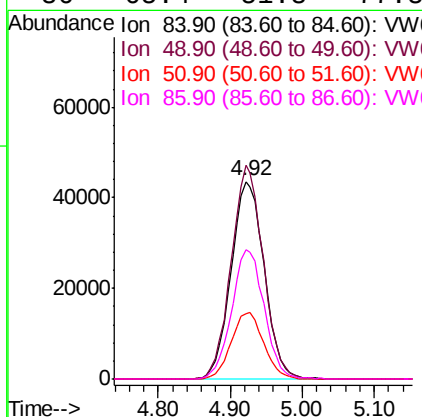
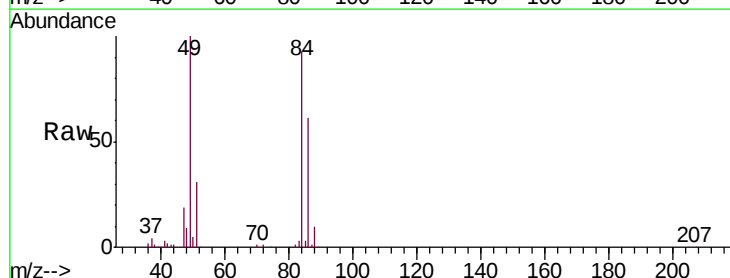
Tgt Ion: 73 Resp: 221567  
 Ion Ratio Lower Upper  
 73 100  
 57 20.0 16.8 25.2

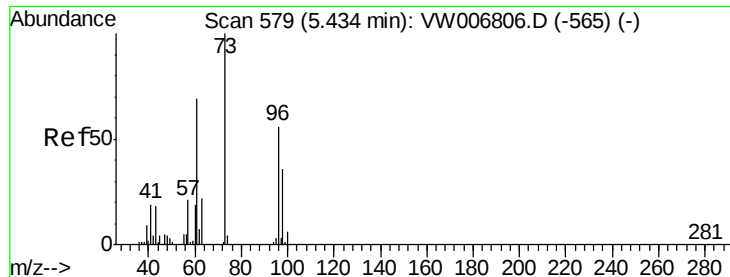


#20

Methylene Chloride  
 Concen: 47.740 ug/l  
 RT: 4.92 min Scan# 495  
 Delta R.T. 0.00 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

Tgt Ion: 84 Resp: 139015  
 Ion Ratio Lower Upper  
 84 100  
 49 108.0 84.8 127.2  
 51 33.2 26.2 39.4  
 86 65.4 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 46.640 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILDL

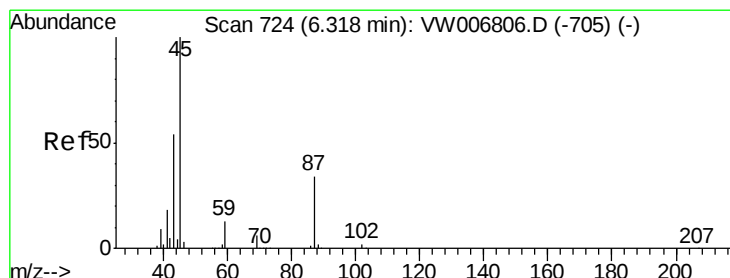
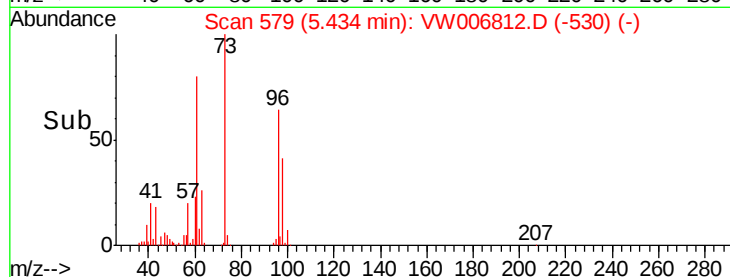
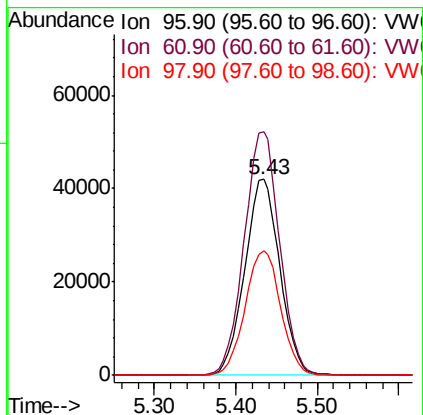
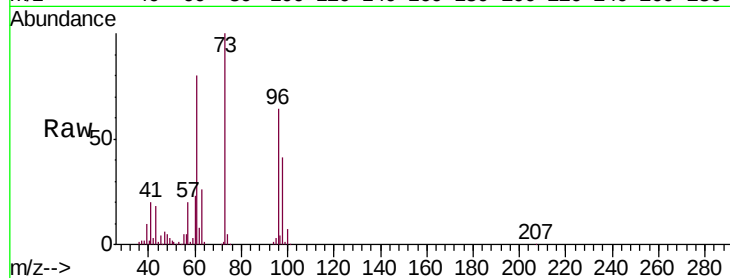
Tgt Ion: 96 Resp: 125963

Ion Ratio Lower Upper

96 100

61 124.5 98.7 148.1

98 63.6 51.2 76.8



#22

Diisopropyl ether

Concen: 40.051 ug/l

RT: 6.32 min Scan# 724

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Tgt Ion: 45 Resp: 250537

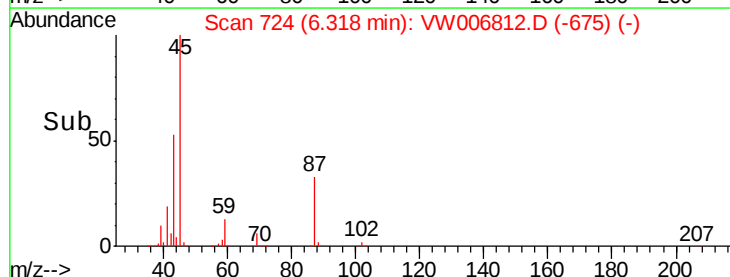
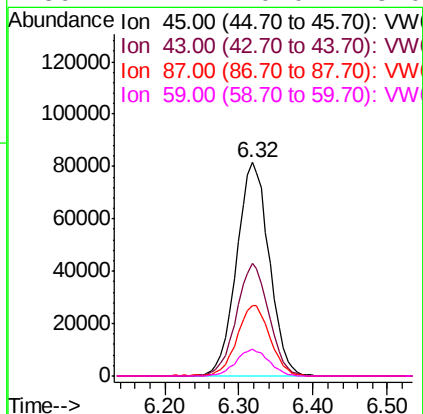
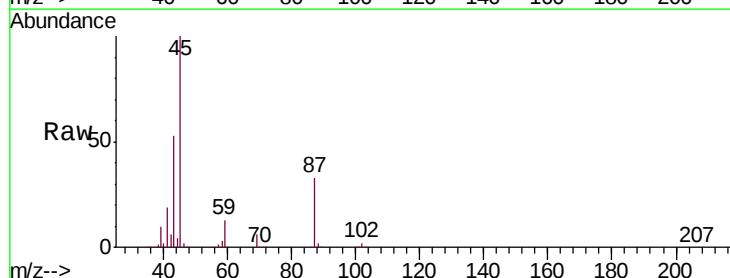
Ion Ratio Lower Upper

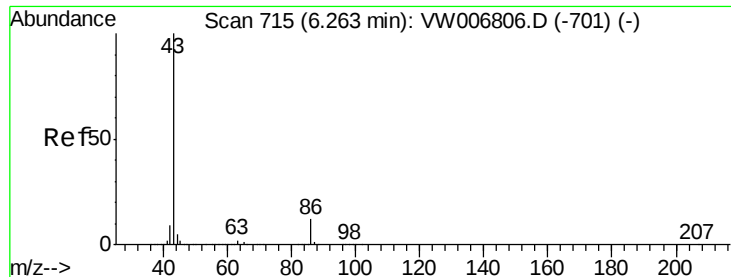
45 100

43 52.6 43.7 65.5

87 32.9 27.2 40.8

59 12.7 10.0 15.0





#23

Vinyl Acetate

Concen: 37.349 ug/l

RT: 6.32 min Scan# 724

Delta R.T. 0.05 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

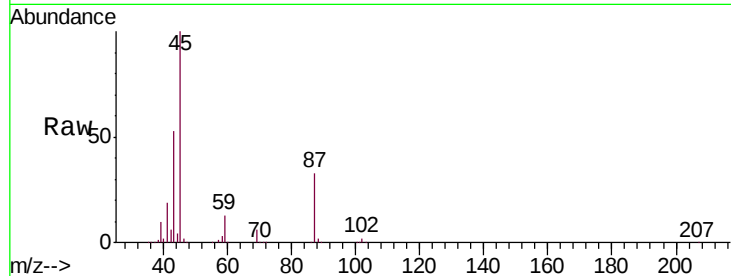
PT-VOA-SOILDL

Tgt Ion: 43 Resp: 131709

Ion Ratio Lower Upper

43 100

86 0.4 9.6 14.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.32

40000

30000

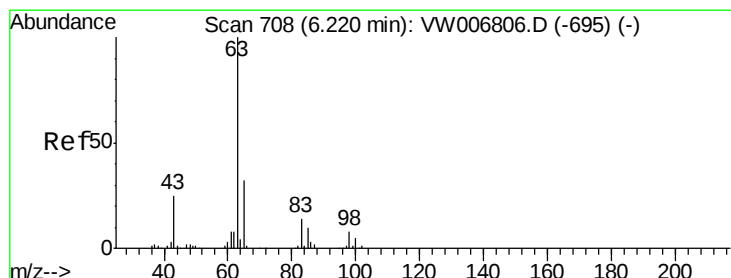
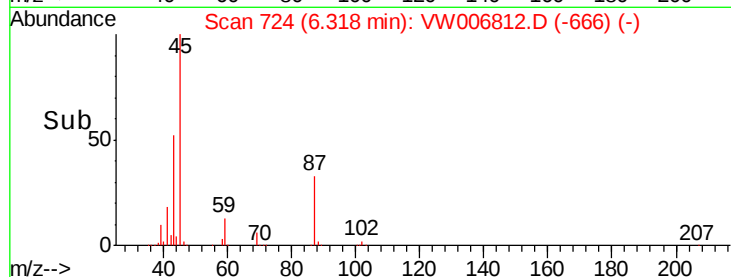
20000

10000

0

6.20 6.30 6.40

Time-->



#24

1,1-Dichloroethane

Concen: 11.151 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

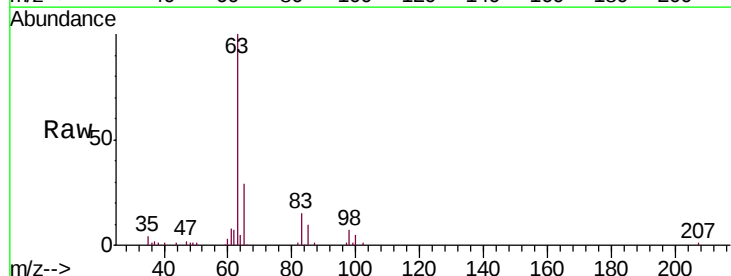
Tgt Ion: 63 Resp: 46262

Ion Ratio Lower Upper

63 100

98 7.4 3.9 11.5

100 4.8 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

20000

15000

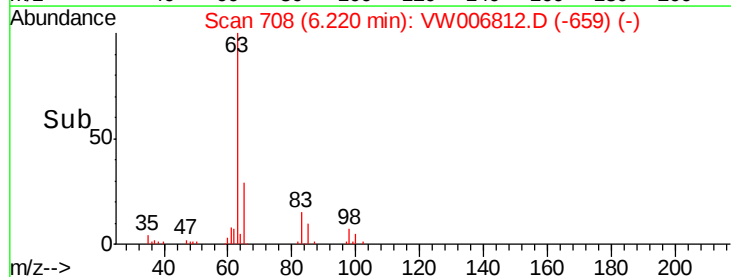
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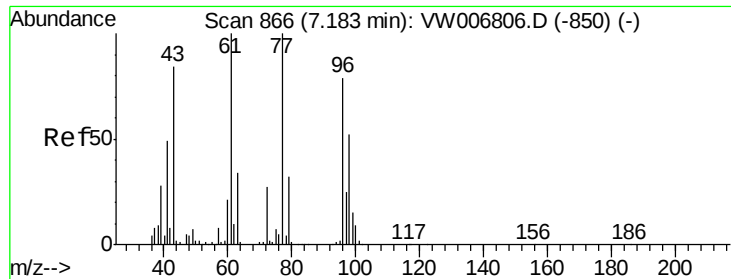
5000

0

6.10 6.20 6.30

Time-->





#25

2-Butanone

Concen: 92.775 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.01 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampled :

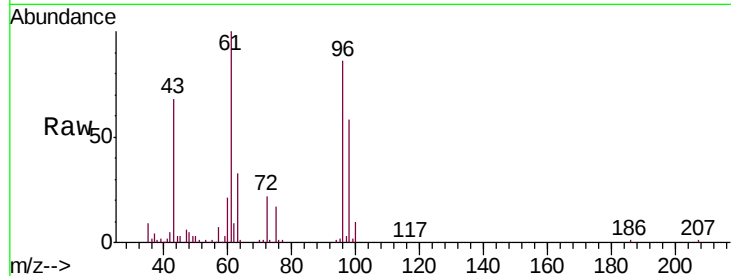
PT-VOA-SOILD

Tgt Ion: 43 Resp: 49940

Ion Ratio Lower Upper

43 100

72 32.1 25.3 37.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.18

20000

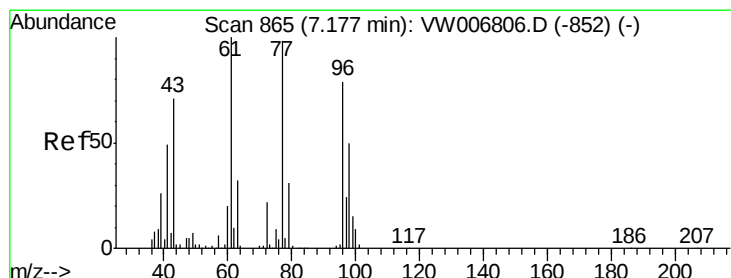
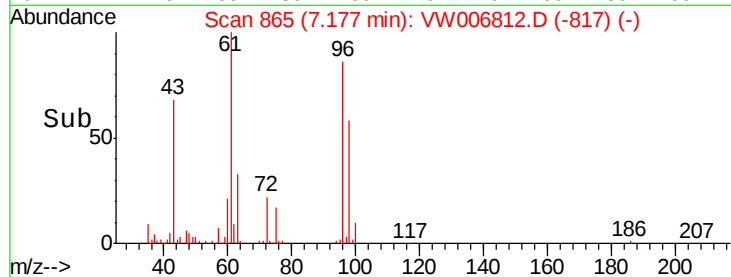
15000

10000

5000

0

Time--> 7.00 7.10 7.20 7.30



#27

cis-1,2-Dichloroethene

Concen: 20.612 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

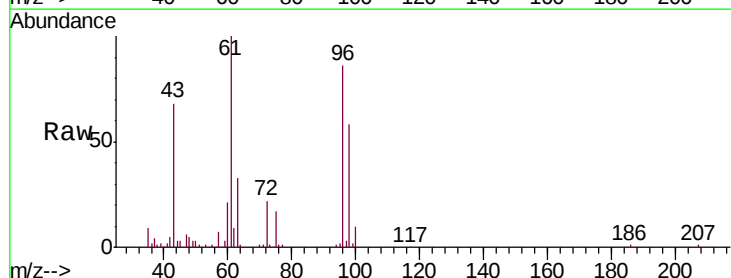
Tgt Ion: 96 Resp: 59348

Ion Ratio Lower Upper

96 100

61 114.6 0.0 264.0

98 65.1 0.0 131.0



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW

7.18

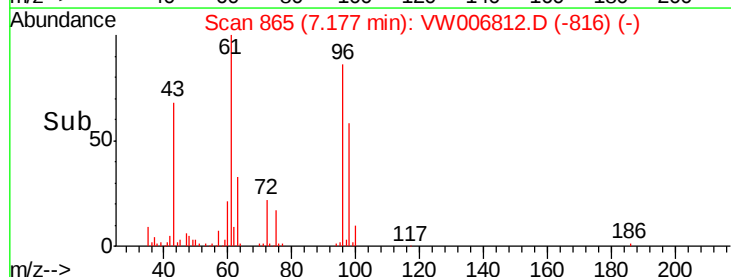
30000

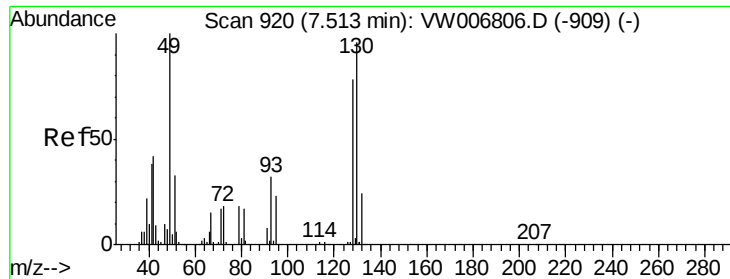
20000

10000

0

Time--> 7.10 7.20 7.30





#28

Bromochloromethane

Concen: 36.233 ug/l

RT: 7.52 min Scan# 921

Delta R.T. 0.01 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILD

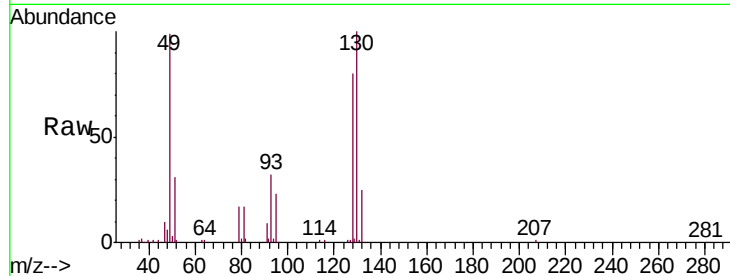
Tgt Ion: 49 Resp: 52580

Ion Ratio Lower Upper

49 100

129 2.5 0.0 5.6

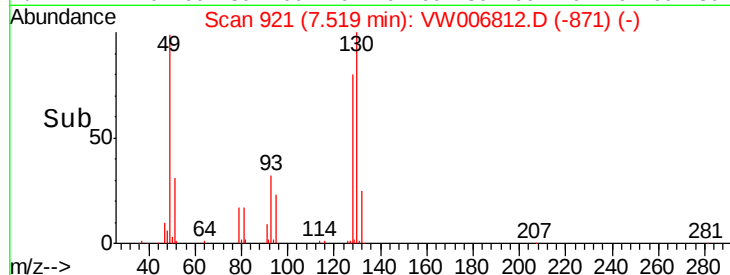
130 104.1 83.3 124.9



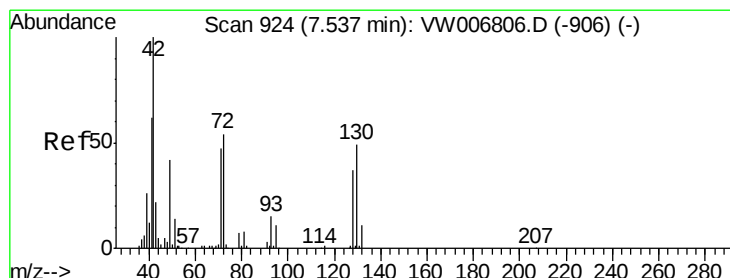
Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): VW

Ion 129.80 (129.50 to 130.50): VW



Time-->



#29

Tetrahydrofuran

Concen: 1.707 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

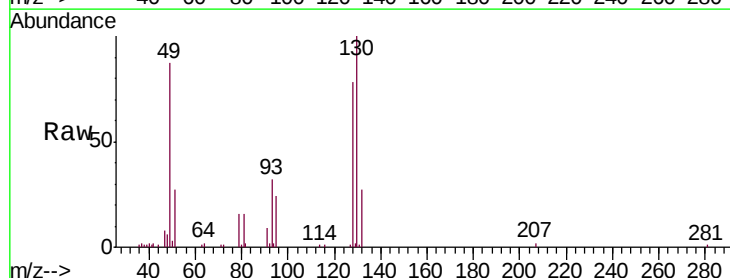
Tgt Ion: 42 Resp: 588

Ion Ratio Lower Upper

42 100

72 41.0 40.9 61.3

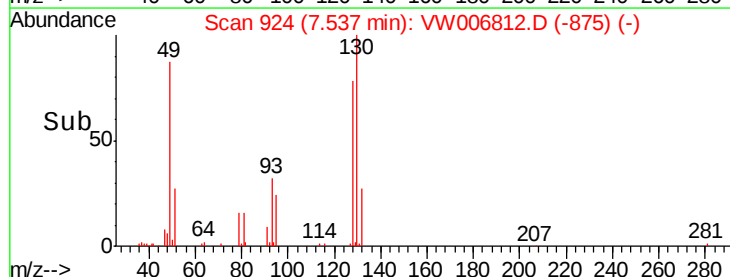
71 11.7 36.9 55.3#

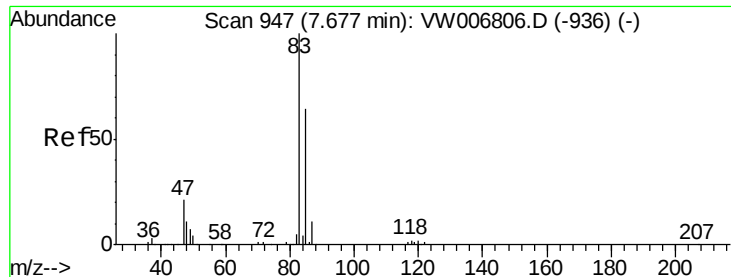


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

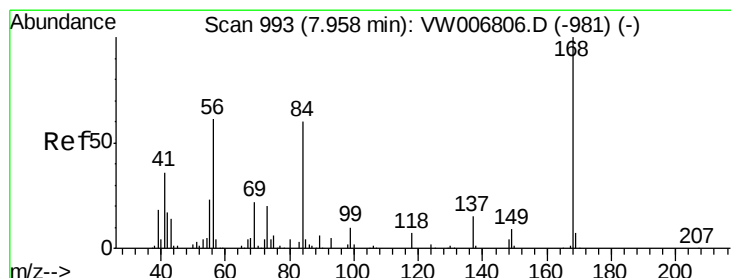
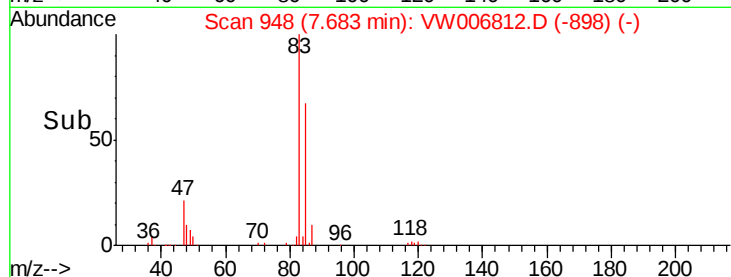
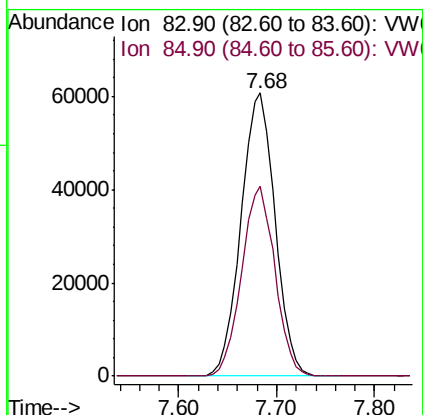
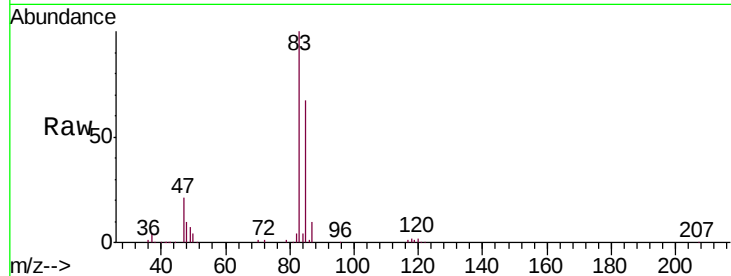




#30  
Chloroform  
Concen: 32.369 ug/l  
RT: 7.68 min Scan# 948  
Delta R.T. 0.01 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

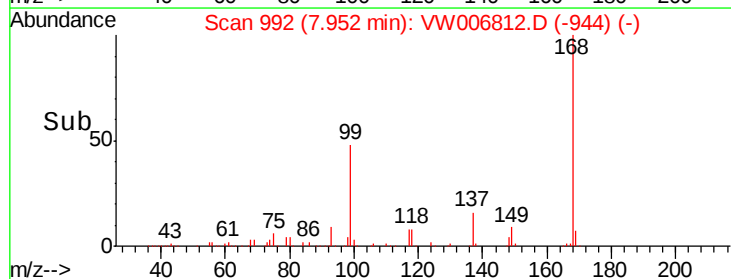
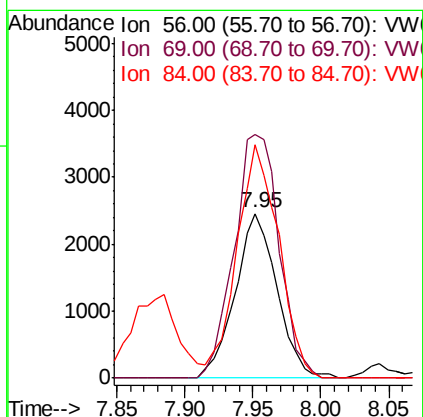
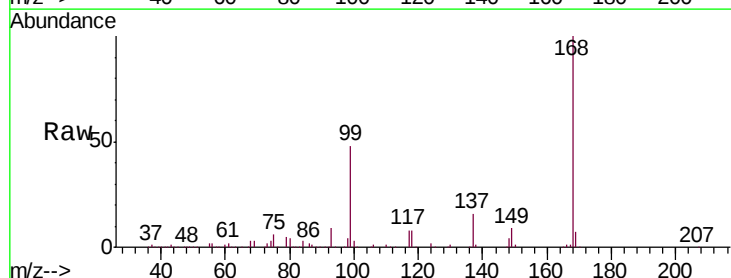
Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILD

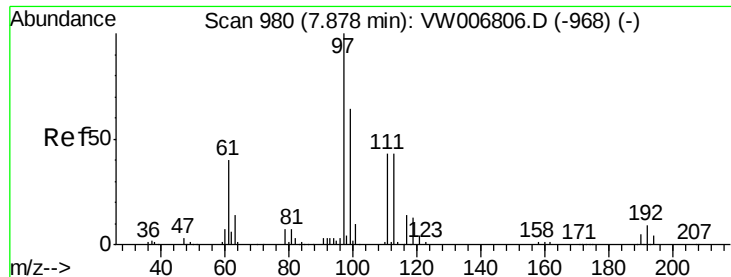
Tgt Ion: 83 Resp: 146624  
Ion Ratio Lower Upper  
83 100  
85 67.2 51.5 77.3



#31  
Cyclohexane  
Concen: 1.244 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

Tgt Ion: 56 Resp: 5283  
Ion Ratio Lower Upper  
56 100  
69 147.9 28.9 43.3#  
84 141.8 79.0 118.4#





#32

1,1,1-Trichloroethane

Concen: 44.471 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILD

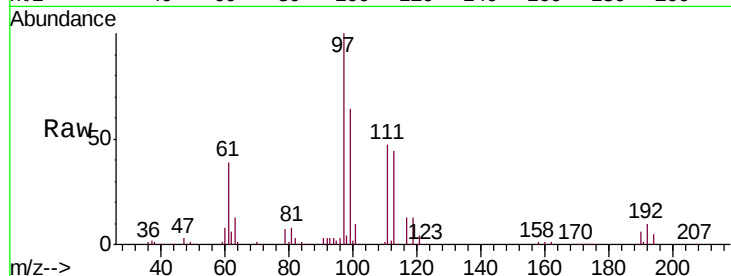
Tgt Ion: 97 Resp: 194444

Ion Ratio Lower Upper

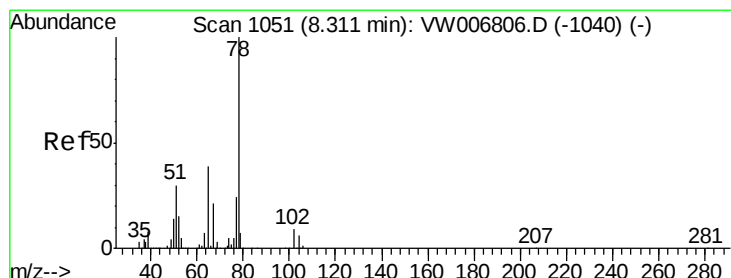
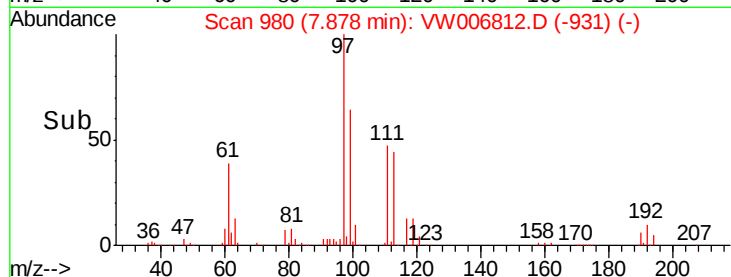
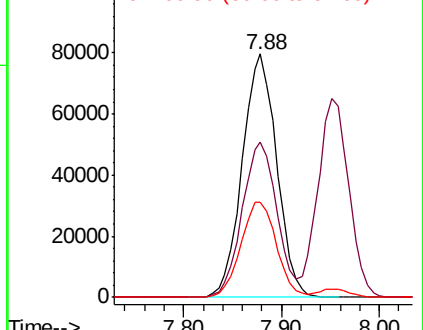
97 100

99 64.5 51.6 77.4

61 40.5 32.2 48.4



Abundance Ion 96.90 (96.60 to 97.60): VW  
Ion 98.90 (98.60 to 99.60): VW  
Ion 60.90 (60.60 to 61.60): VW



#33

1,2-Dichloroethane-d4

Concen: 44.555 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW006812.D

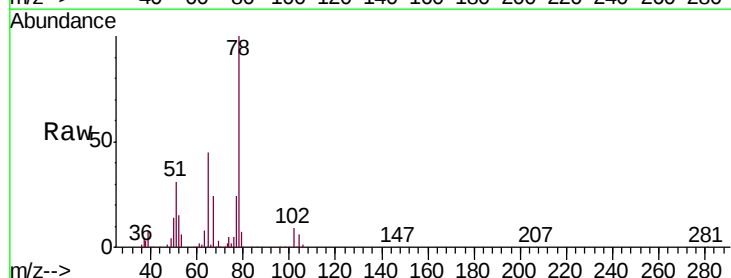
Acq: 12 Nov 2018 17:48

Tgt Ion: 65 Resp: 98747

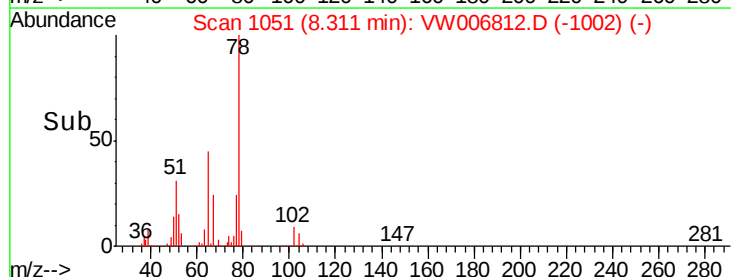
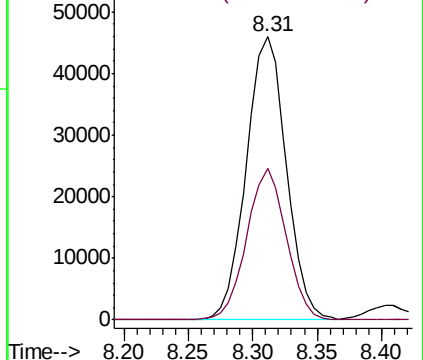
Ion Ratio Lower Upper

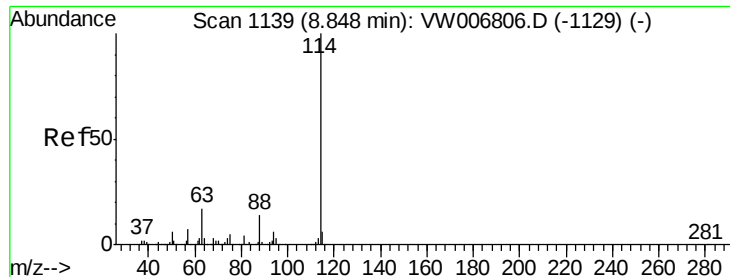
65 100

67 52.9 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

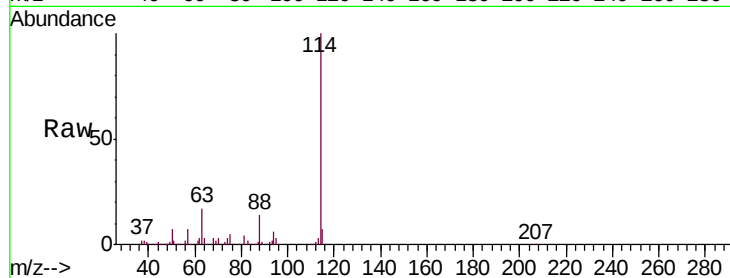




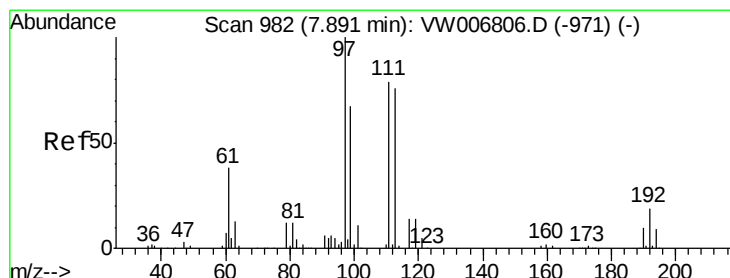
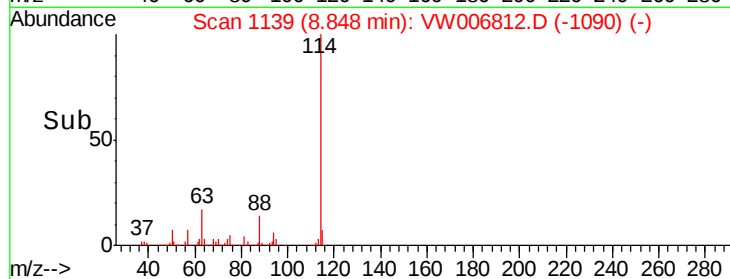
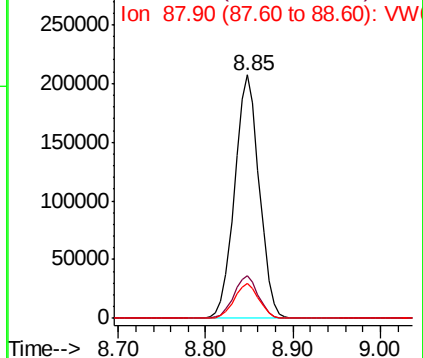
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PT-VOA-SOILD

Tgt Ion:114 Resp: 404401  
 Ion Ratio Lower Upper  
 114 100  
 63 17.4 0.0 33.6  
 88 14.3 0.0 28.4

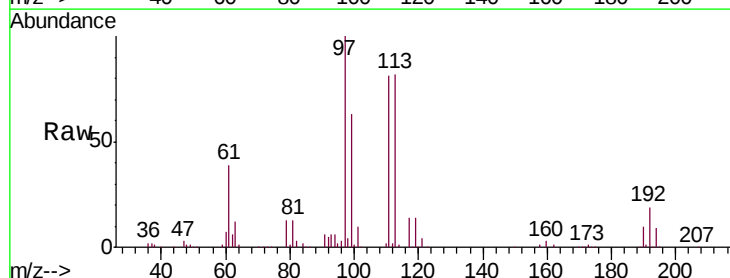


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

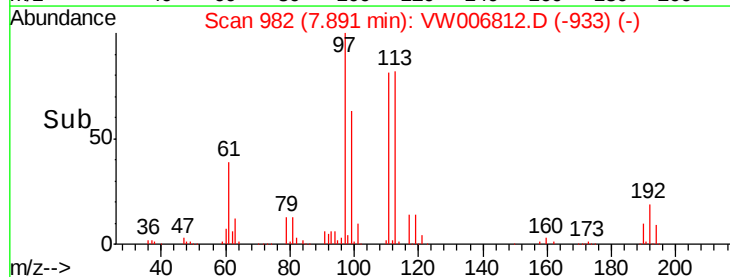
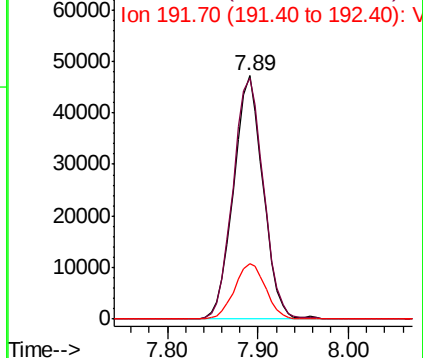


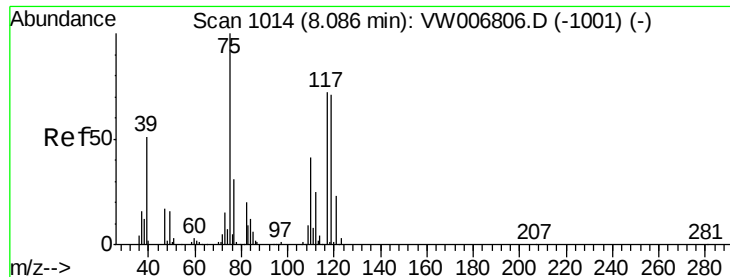
#35  
 Dibromofluoromethane  
 Concen: 44.284 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

Tgt Ion:113 Resp: 106641  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 81.0 121.6  
 192 23.9 19.0 28.6



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.841 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampled :

PT-VOA-SOILDL

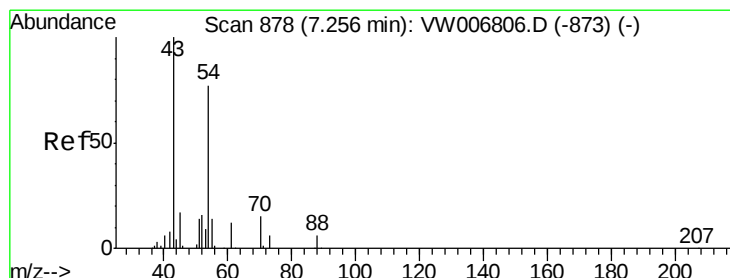
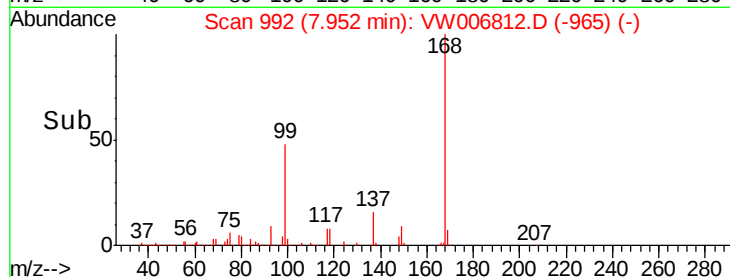
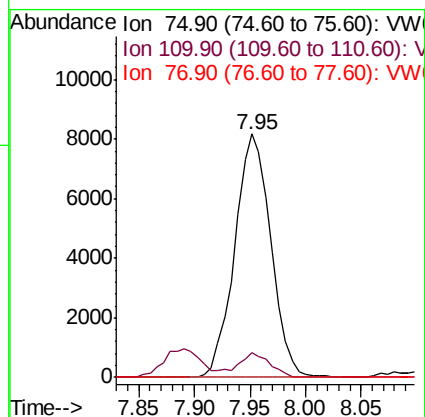
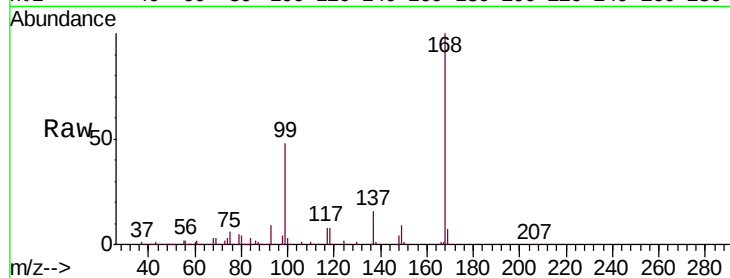
Tgt Ion: 75 Resp: 18322

Ion Ratio Lower Upper

75 100

110 9.0 19.9 59.6#

77 0.0 25.4 38.2#



#37

Ethyl Acetate

Concen: 40.356 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.08 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

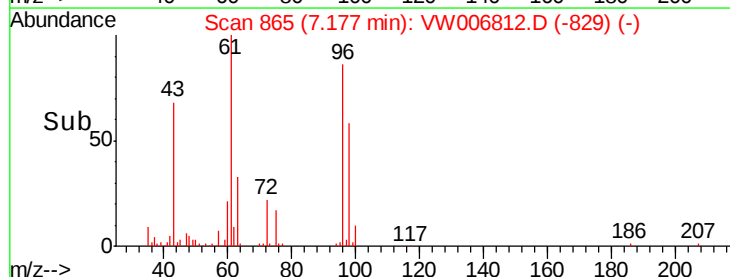
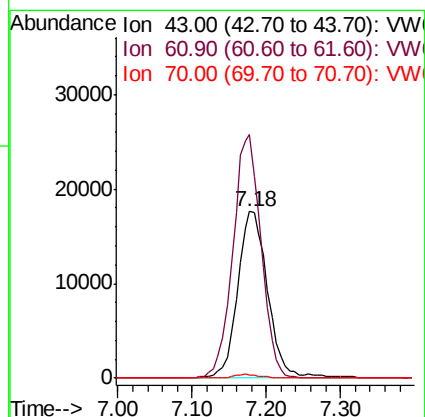
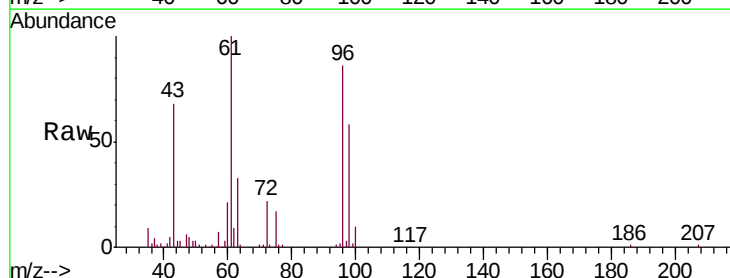
Tgt Ion: 43 Resp: 49940

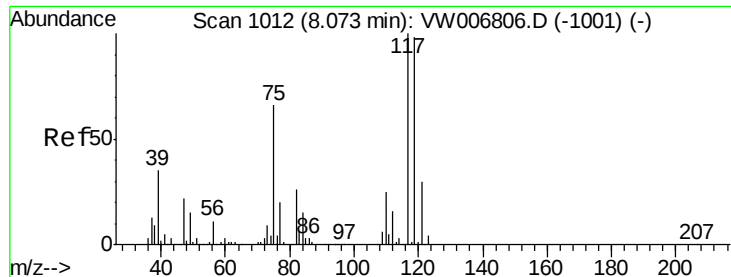
Ion Ratio Lower Upper

43 100

61 136.2 11.7 17.5#

70 2.0 10.0 15.0#





#38

Carbon Tetrachloride

Concen: 6.224 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILDL

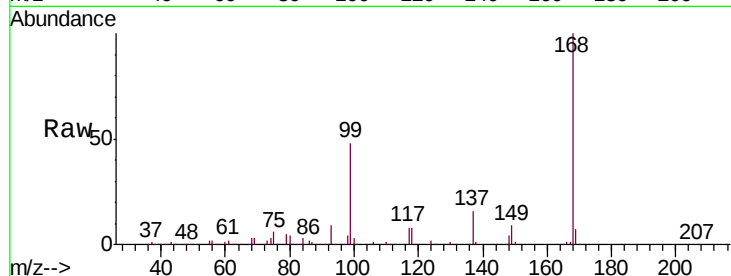
Tgt Ion:117 Resp: 25602

Ion Ratio Lower Upper

117 100

119 5.7 78.5 117.7#

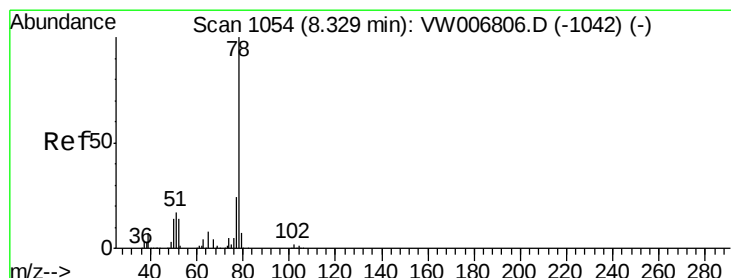
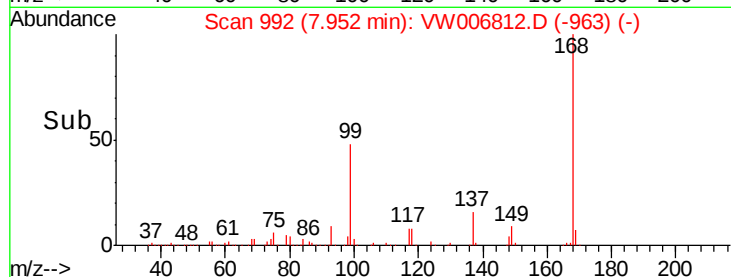
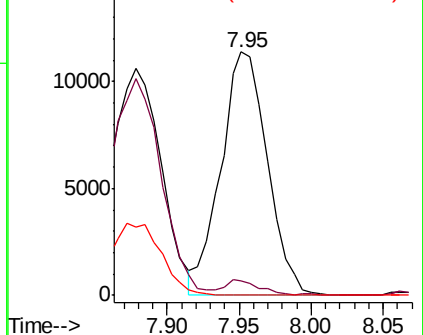
121 0.0 24.2 36.2#



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



#40

Benzene

Concen: 44.086 ug/l

RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VW006812.D

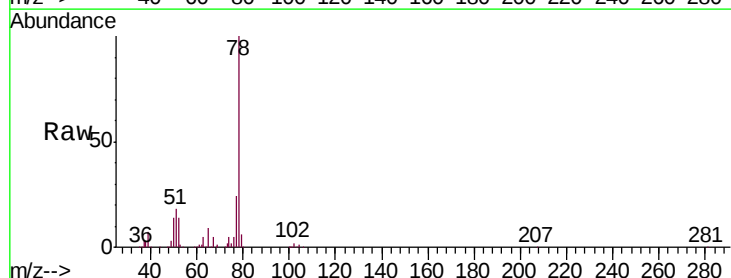
Acq: 12 Nov 2018 17:48

Tgt Ion: 78 Resp: 463930

Ion Ratio Lower Upper

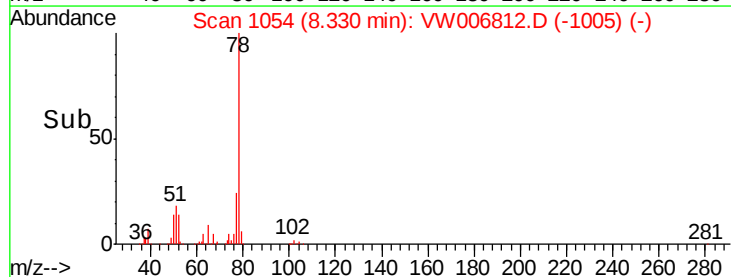
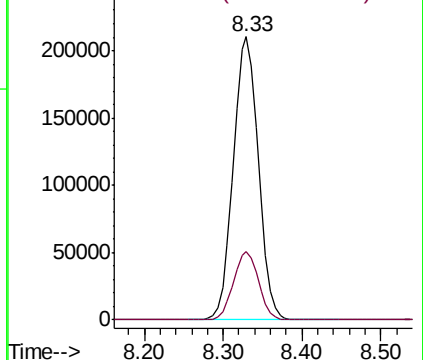
78 100

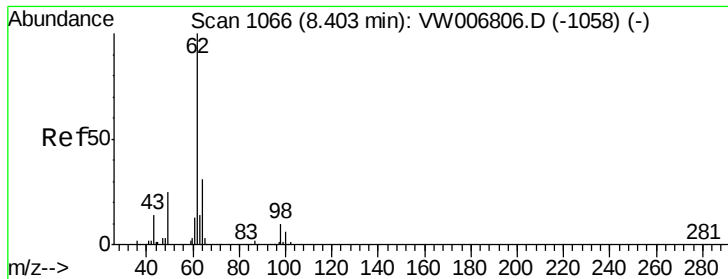
77 24.3 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW





#42

1,2-Dichloroethane

Concen: 44.264 ug/l

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleID :

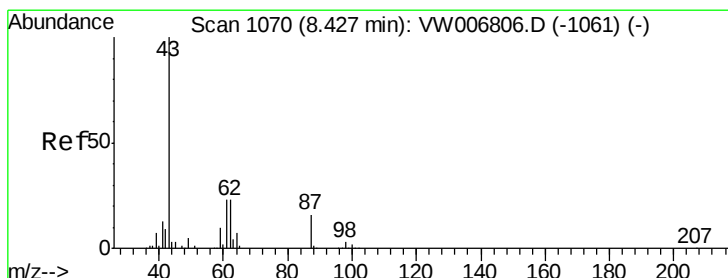
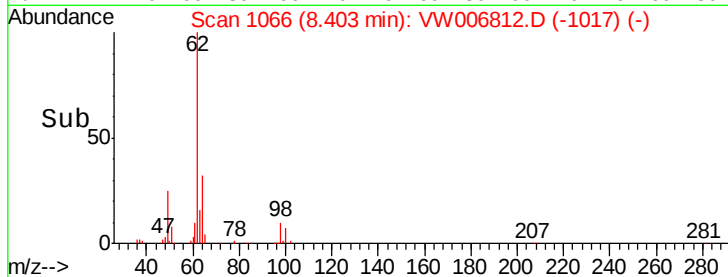
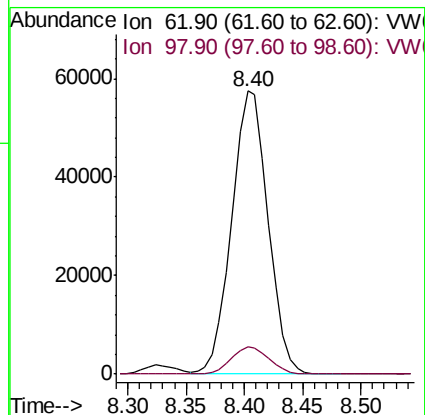
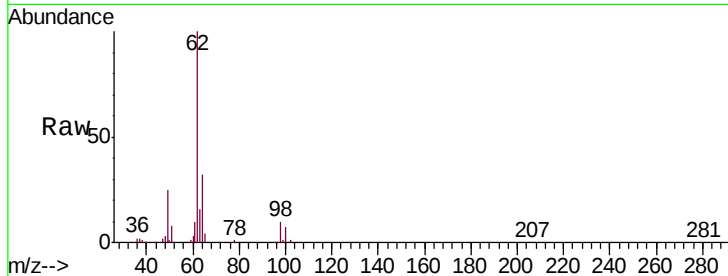
PT-VOA-SOILD

Tgt Ion: 62 Resp: 124798

Ion Ratio Lower Upper

62 100

98 10.0 0.0 20.0



#43

Isopropyl Acetate

Concen: 10.300 ug/l

RT: 8.51 min Scan# 1083

Delta R.T. 0.08 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

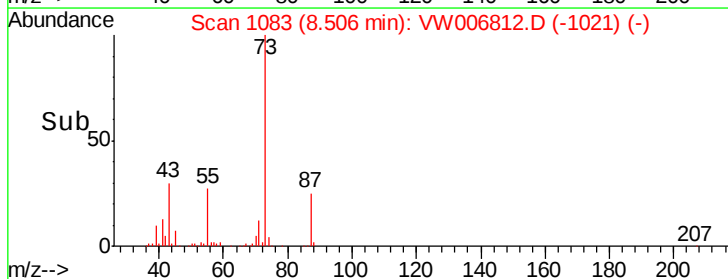
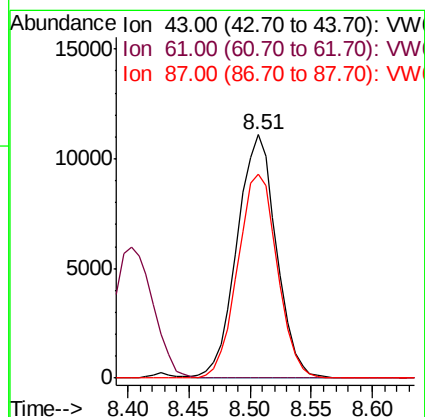
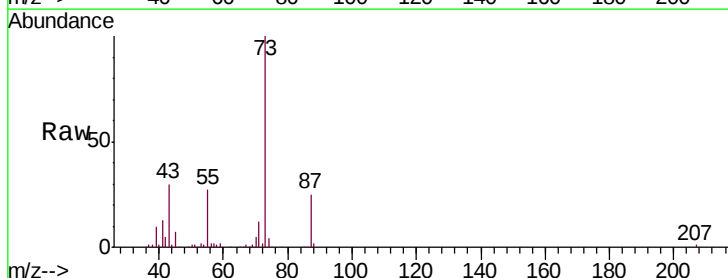
Tgt Ion: 43 Resp: 24788

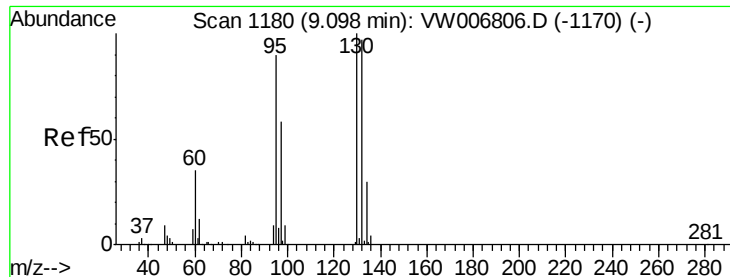
Ion Ratio Lower Upper

43 100

61 0.0 27.0 40.4#

87 84.3 13.0 19.4#





#44

Trichloroethene

Concen: 18.181 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

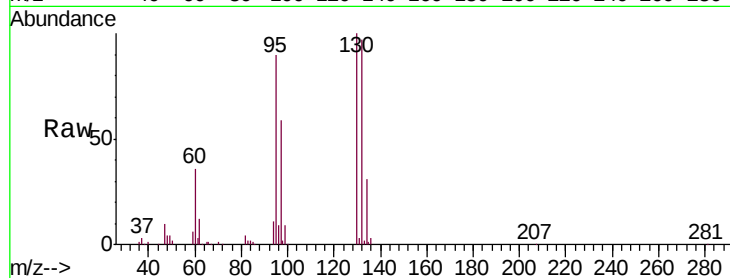
PT-VOA-SOILD

Tgt Ion:130 Resp: 60370

Ion Ratio Lower Upper

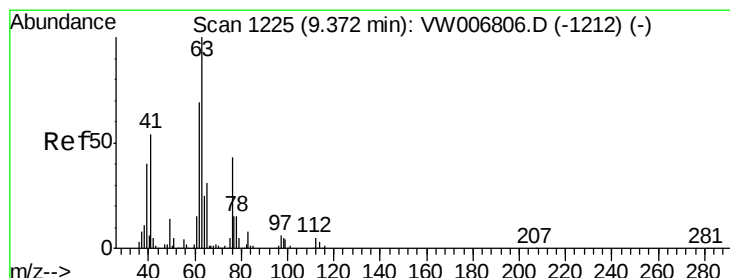
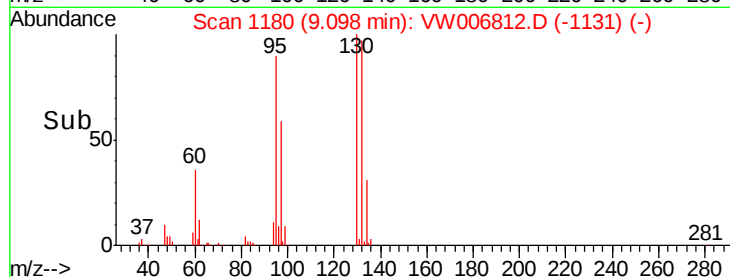
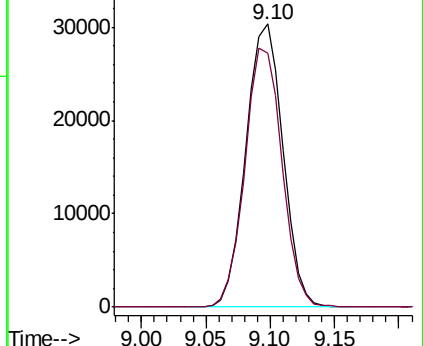
130 100

95 89.9 0.0 180.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#45

1,2-Dichloropropane

Concen: 19.821 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW006812.D

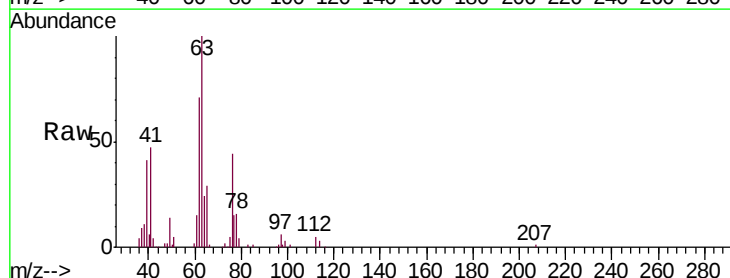
Acq: 12 Nov 2018 17:48

Tgt Ion: 63 Resp: 48614

Ion Ratio Lower Upper

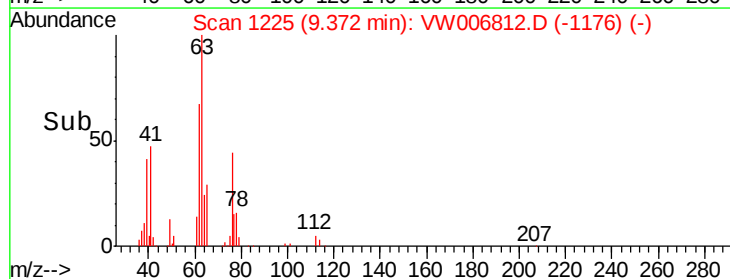
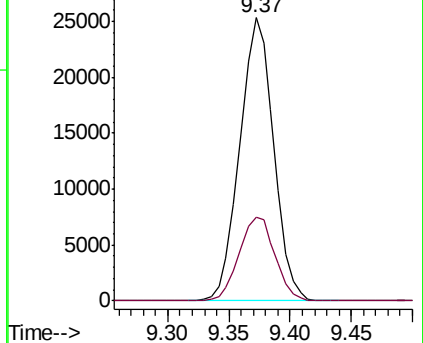
63 100

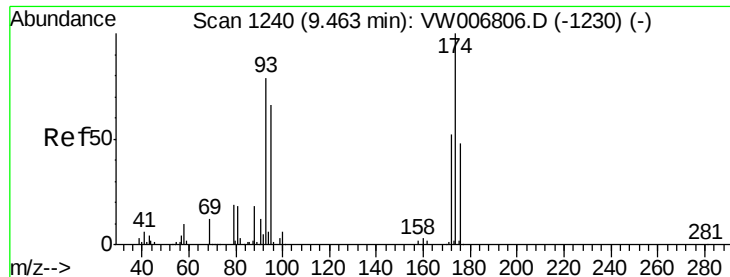
65 29.4 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW





#46

Dibromomethane

Concen: 23.133 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleID :

PT-VOA-SOILDL

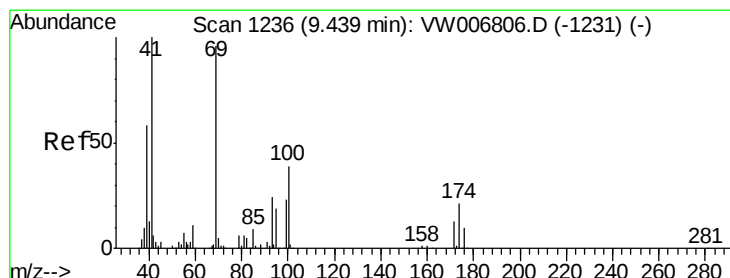
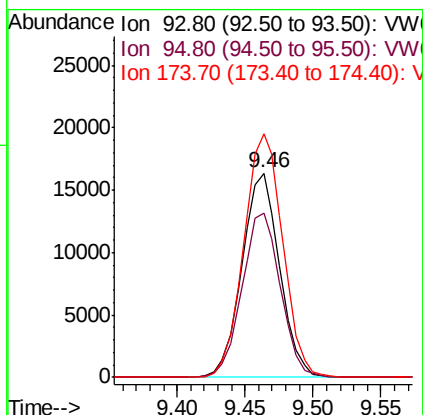
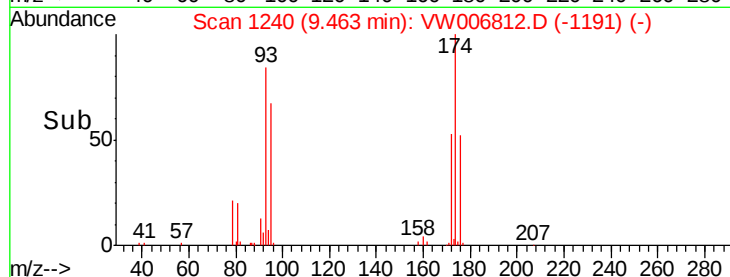
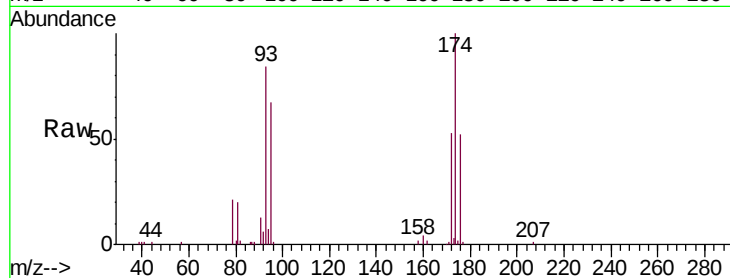
Tgt Ion: 93 Resp: 31582

Ion Ratio Lower Upper

93 100

95 82.0 67.0 100.6

174 123.5 98.6 147.8



#48

Methyl methacrylate

Concen: 21.817 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.07 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

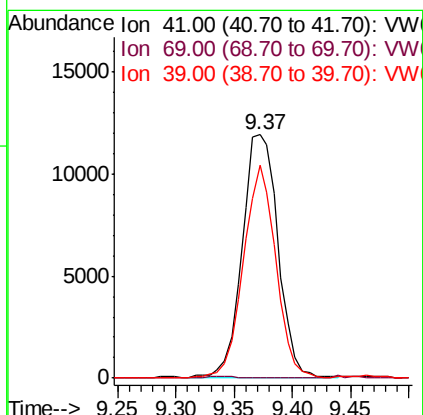
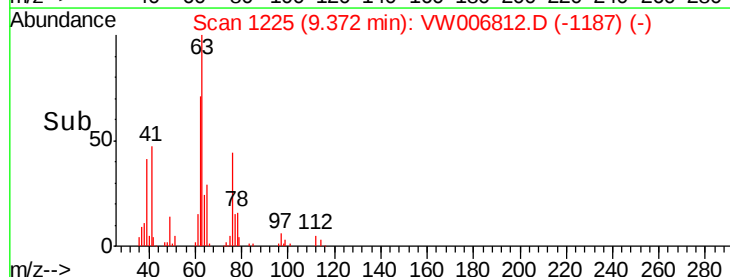
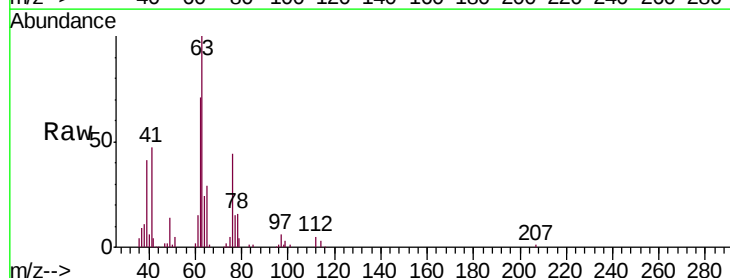
Tgt Ion: 41 Resp: 25743

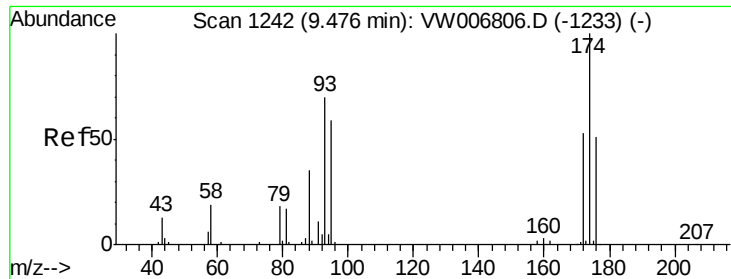
Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 79.0 45.9 68.9#

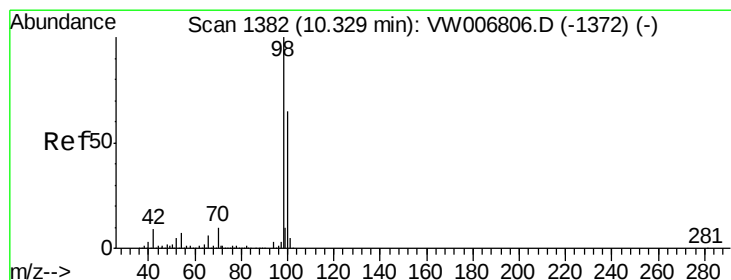
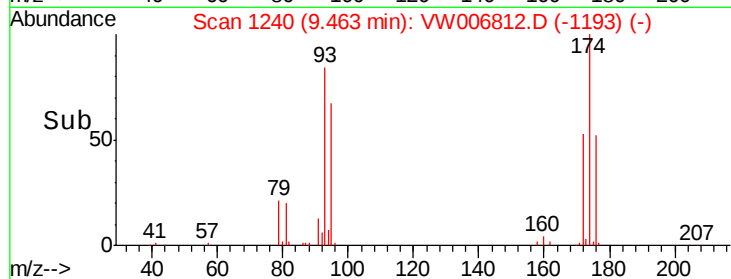
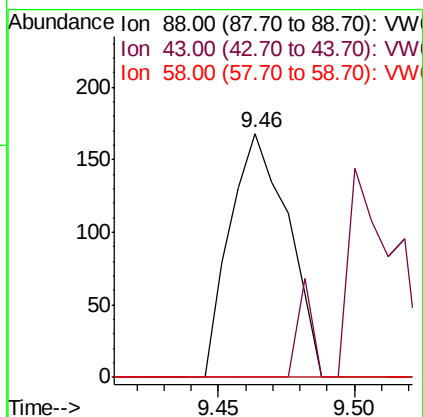
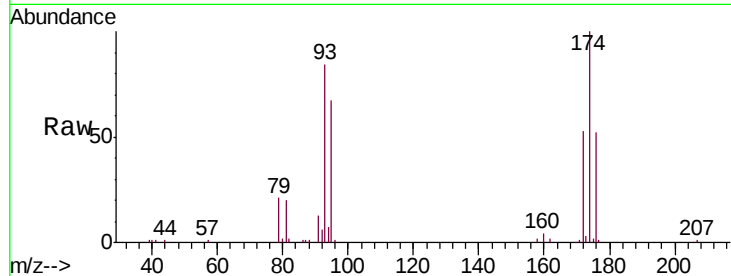




#49  
 1,4-Dioxane  
 Concen: 12.121 ug/l  
 RT: 9.46 min Scan# 1240  
 Delta R.T. -0.01 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

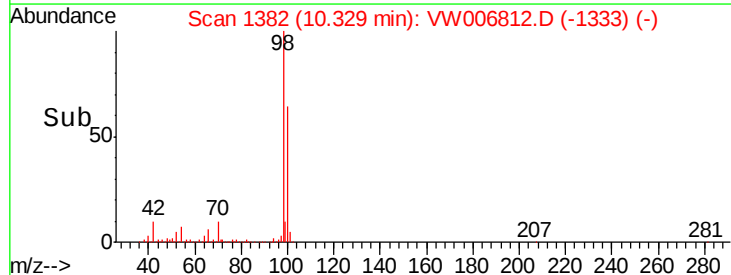
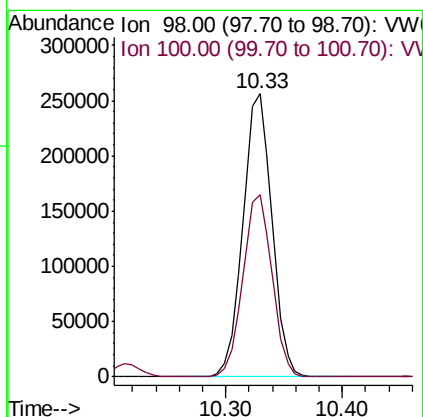
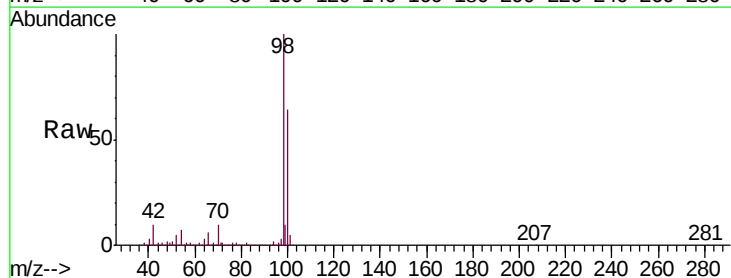
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PT-VOA-SOILD

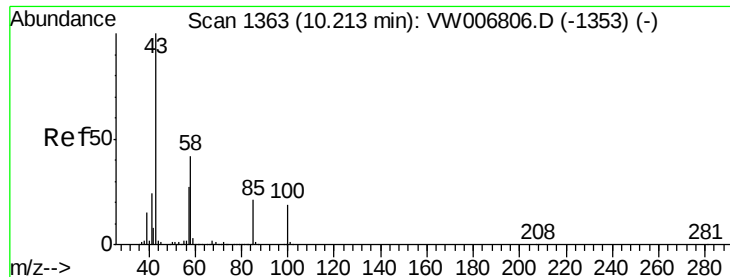
Tgt Ion: 88 Resp: 250  
 Ion Ratio Lower Upper  
 88 100  
 43 10.0 0.0 0.0#  
 58 0.0 50.6 75.8#



#50  
 Toluene-d8  
 Concen: 44.656 ug/l  
 RT: 10.33 min Scan# 1382  
 Delta R.T. 0.00 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

Tgt Ion: 98 Resp: 445717  
 Ion Ratio Lower Upper  
 98 100  
 100 65.0 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 91.264 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

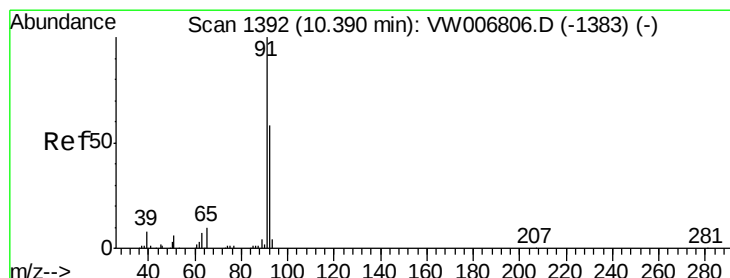
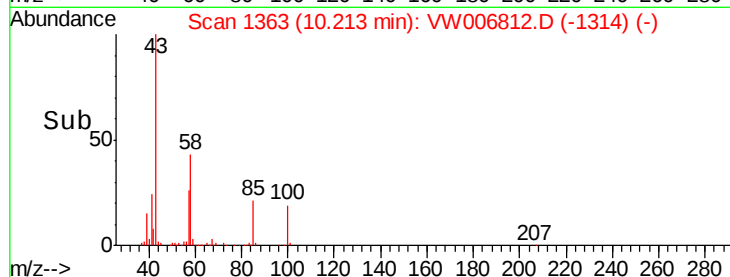
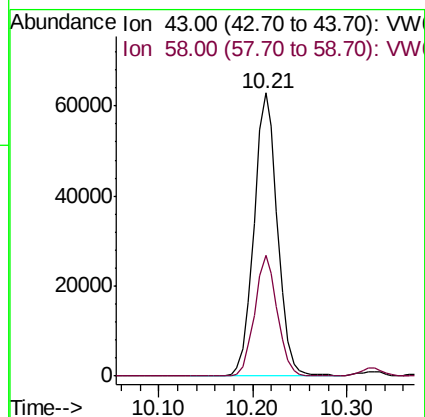
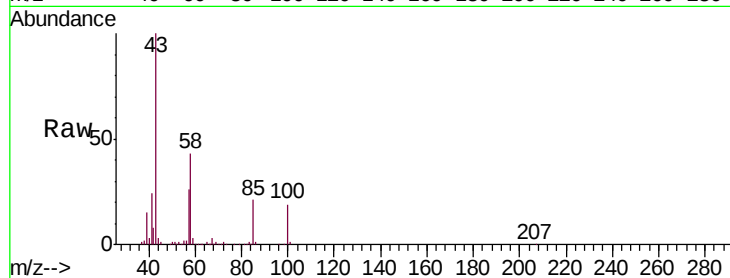
PT-VOA-SOILD

Tgt Ion: 43 Resp: 110136

Ion Ratio Lower Upper

43 100

58 41.5 34.0 51.0



#52

Toluene

Concen: 44.051 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW006812.D

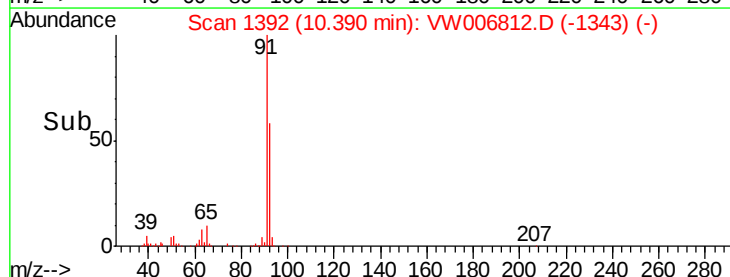
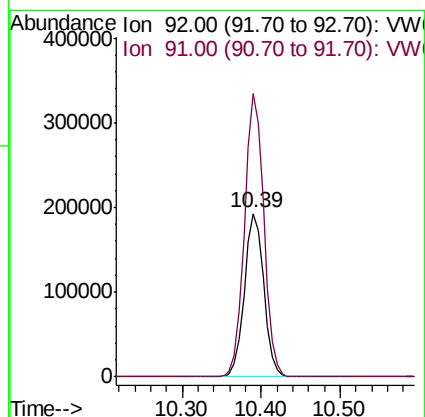
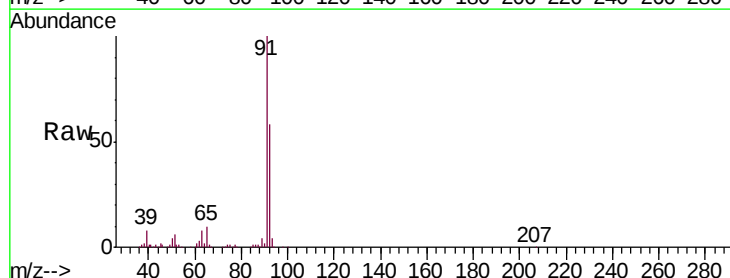
Acq: 12 Nov 2018 17:48

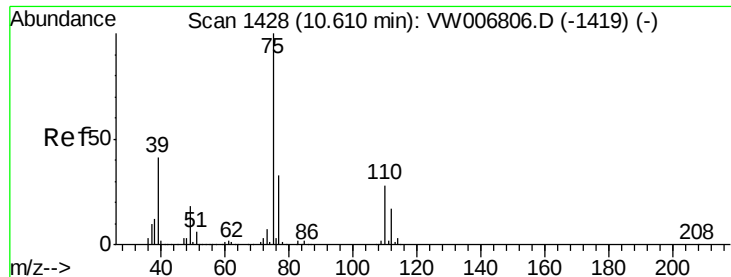
Tgt Ion: 92 Resp: 328631

Ion Ratio Lower Upper

92 100

91 173.2 139.4 209.2





#53

t-1,3-Dichloropropene

Concen: 10.691 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

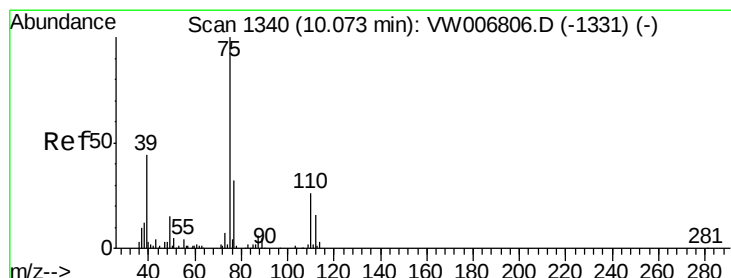
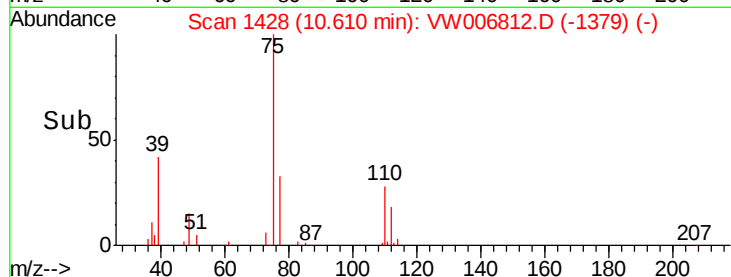
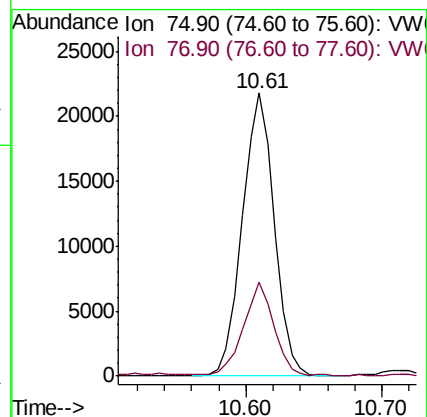
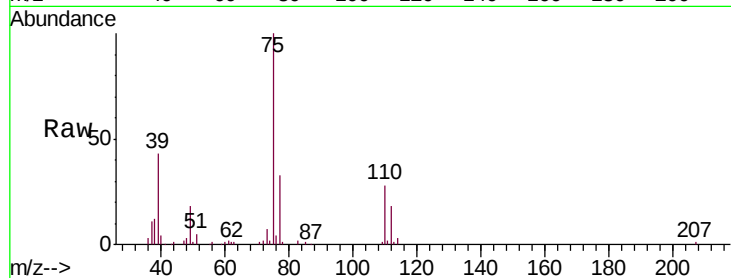
PT-VOA-SOILD

Tgt Ion: 75 Resp: 35639

Ion Ratio Lower Upper

75 100

77 32.9 26.3 39.5



#54

cis-1,3-Dichloropropene

Concen: 27.125 ug/l

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

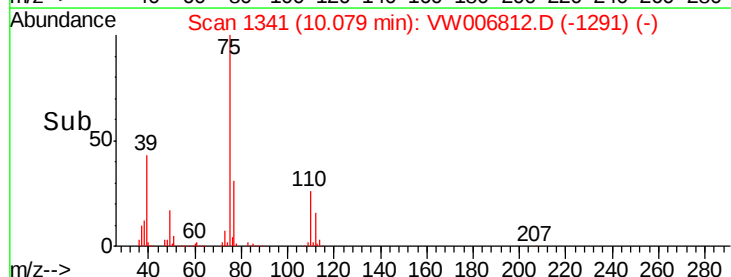
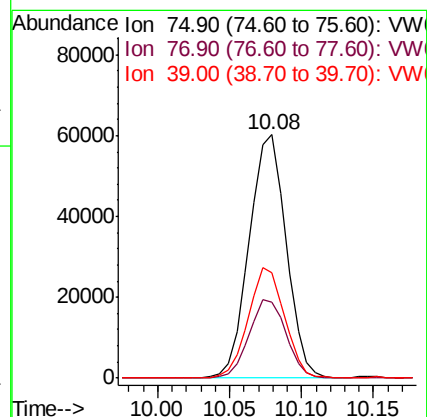
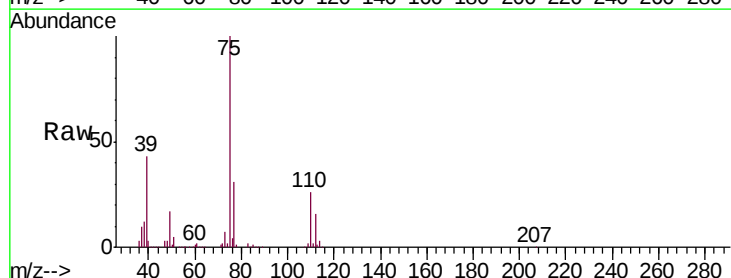
Tgt Ion: 75 Resp: 107223

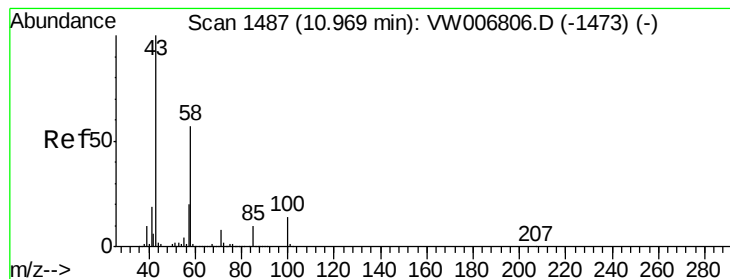
Ion Ratio Lower Upper

75 100

77 31.2 25.2 37.8

39 43.1 35.3 52.9





#59

2-Hexanone

Concen: 33.727 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

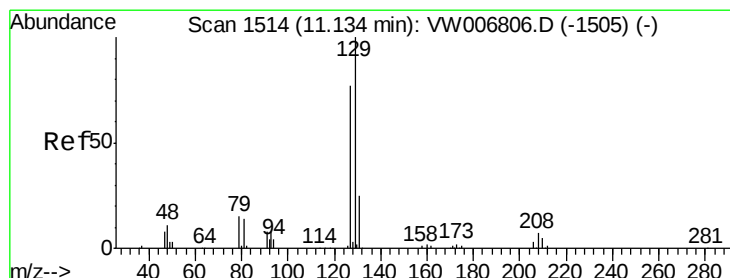
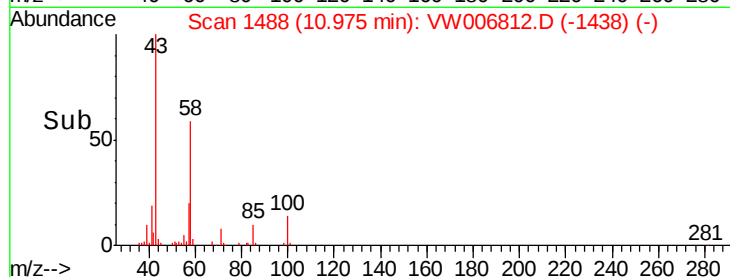
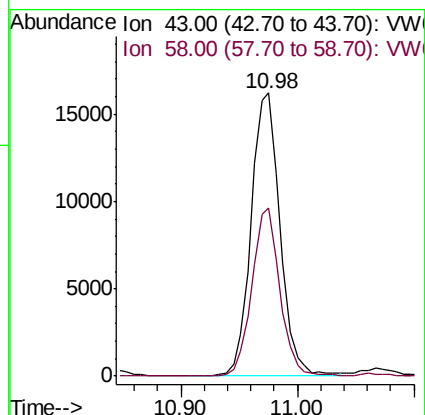
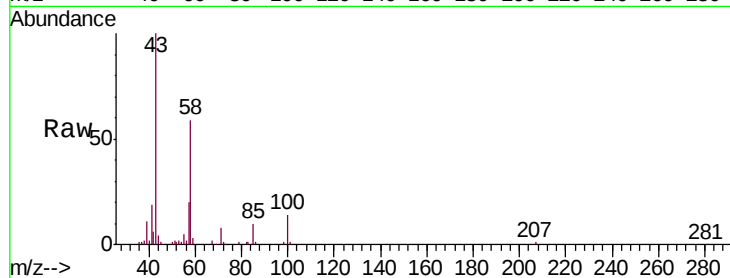
PT-VOA-SOILD

Tgt Ion: 43 Resp: 28074

Ion Ratio Lower Upper

43 100

58 57.2 28.7 86.1



#60

Dibromochloromethane

Concen: 13.571 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VW006812.D

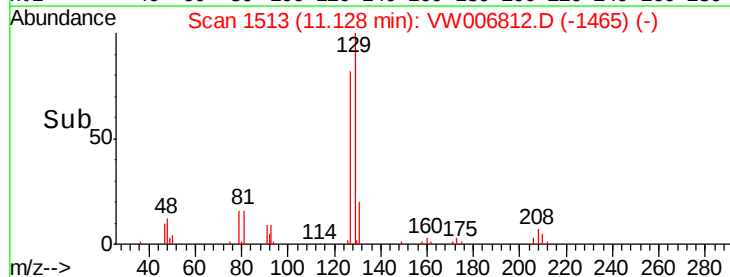
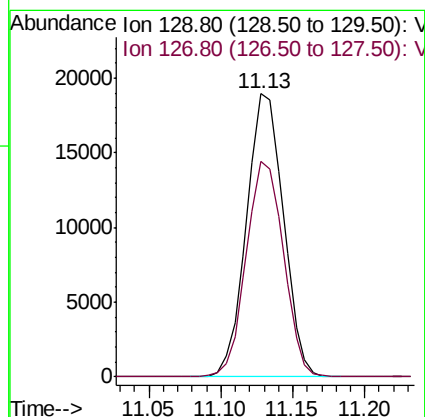
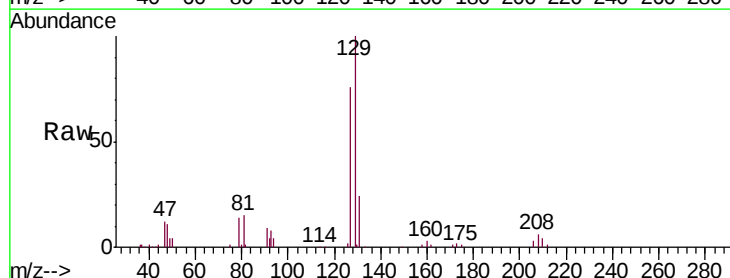
Acq: 12 Nov 2018 17:48

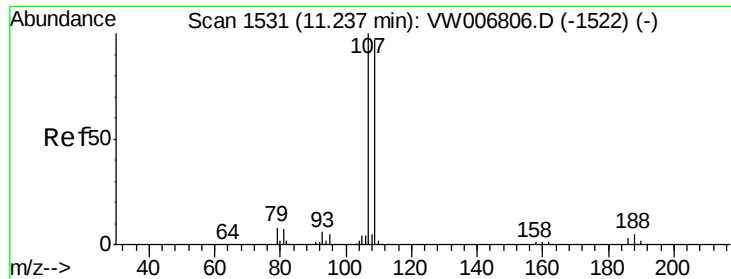
Tgt Ion: 129 Resp: 33641

Ion Ratio Lower Upper

129 100

127 76.8 38.7 116.1

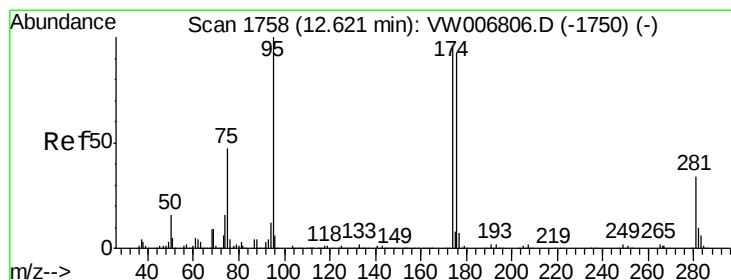
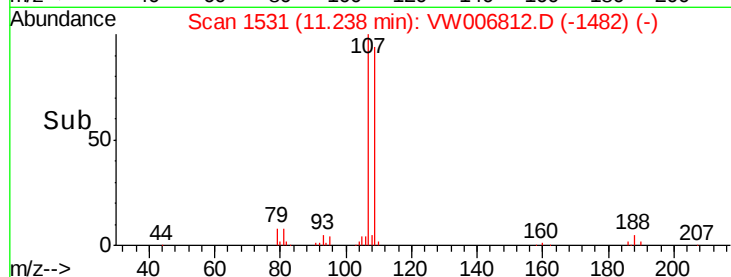
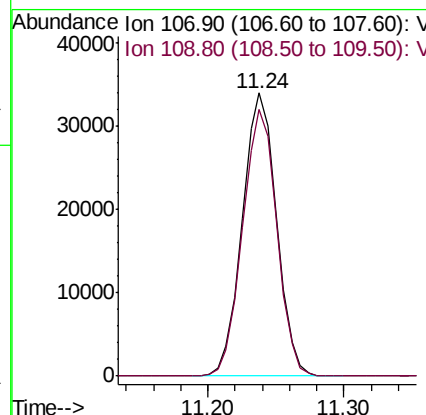
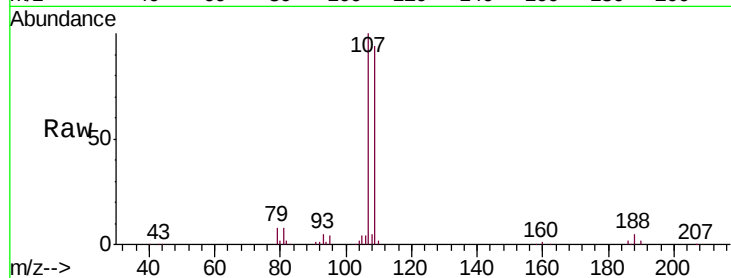




#61  
 1,2-Dibromoethane  
 Concen: 31.061 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.00 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

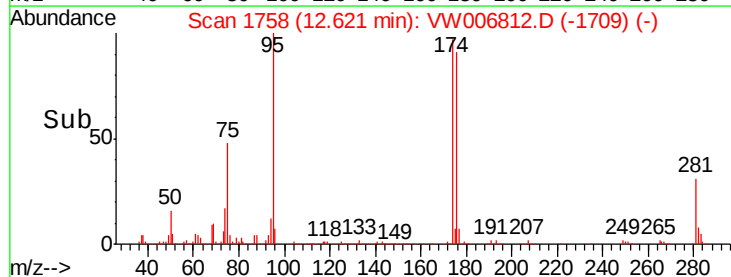
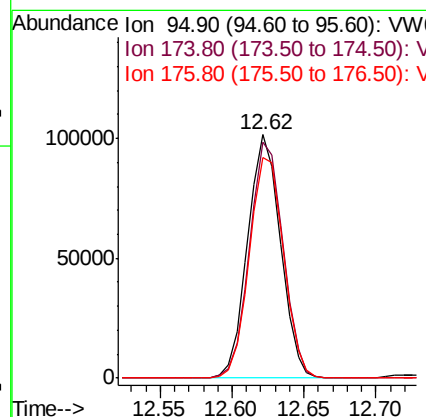
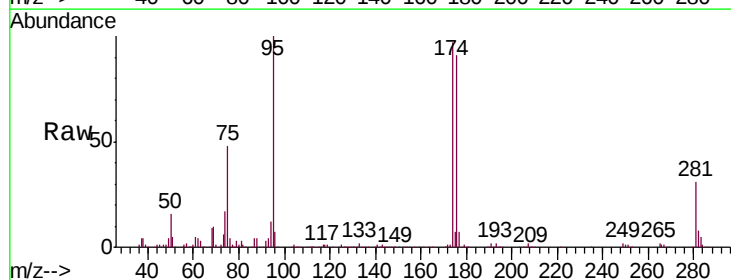
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PT-VOA-SOILDL

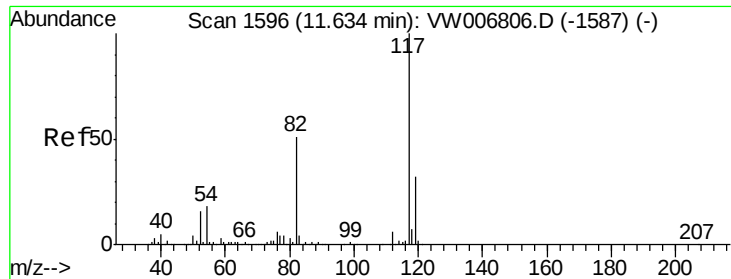
Tgt Ion: 107 Resp: 59762  
 Ion Ratio Lower Upper  
 107 100  
 109 94.4 76.7 115.1



#62  
 4-Bromofluorobenzene  
 Concen: 43.657 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW006812.D  
 Acq: 12 Nov 2018 17:48

Tgt Ion: 95 Resp: 160492  
 Ion Ratio Lower Upper  
 95 100  
 174 98.3 0.0 196.6  
 176 94.3 0.0 191.6

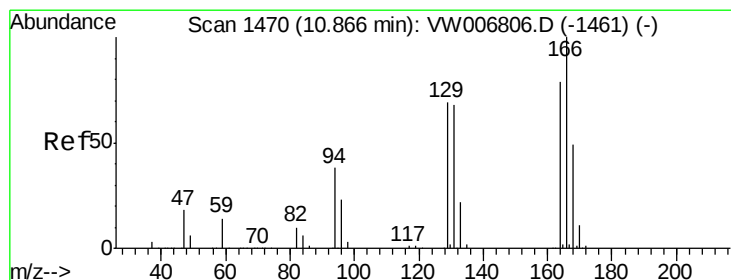
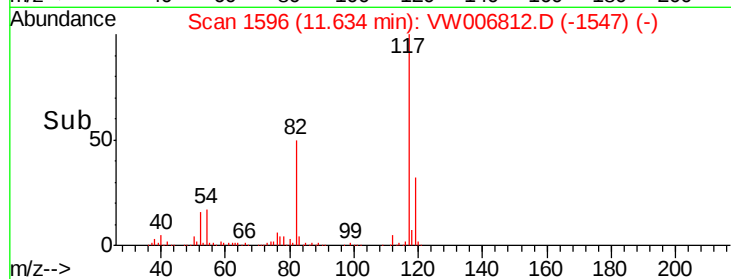
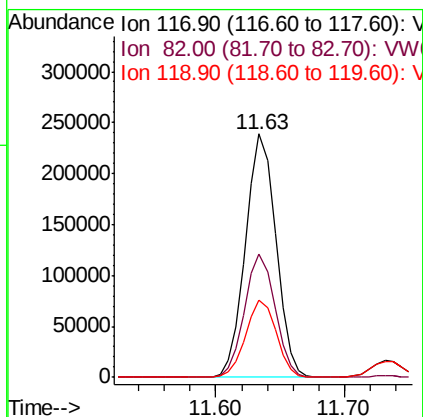
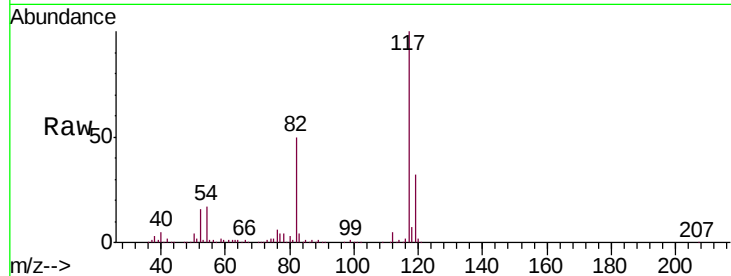




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

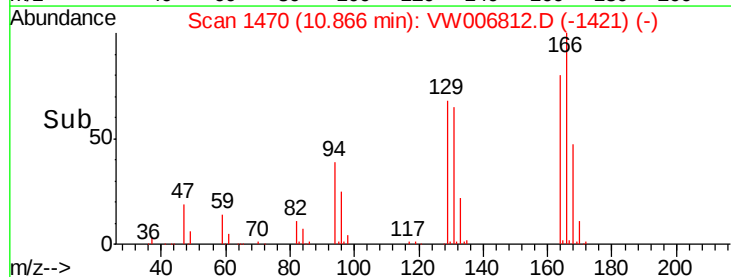
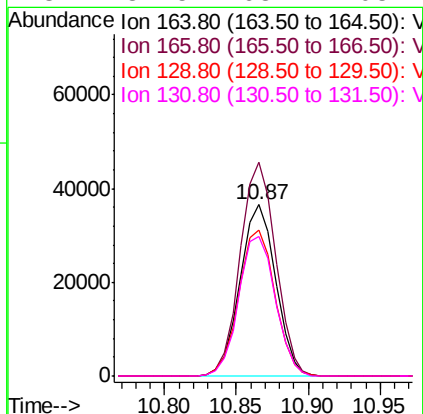
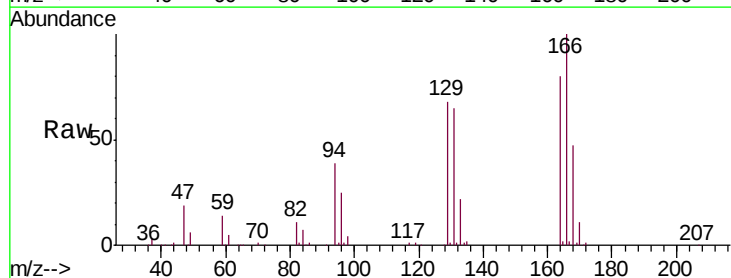
Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILDL

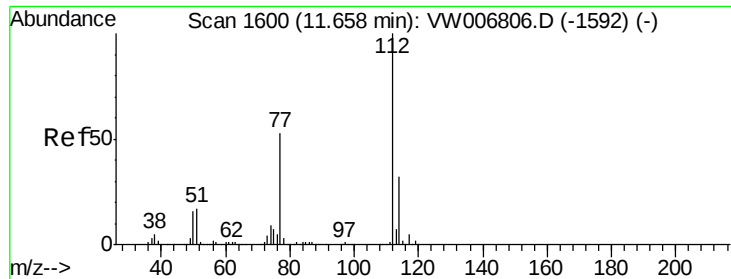
Tgt Ion:117 Resp: 389909  
Ion Ratio Lower Upper  
117 100  
82 50.5 40.6 61.0  
119 32.0 25.5 38.3



#64  
Tetrachloroethene  
Concen: 20.054 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

Tgt Ion:164 Resp: 62661  
Ion Ratio Lower Upper  
164 100  
166 124.7 101.3 151.9  
129 84.9 69.6 104.4  
131 81.5 68.7 103.1

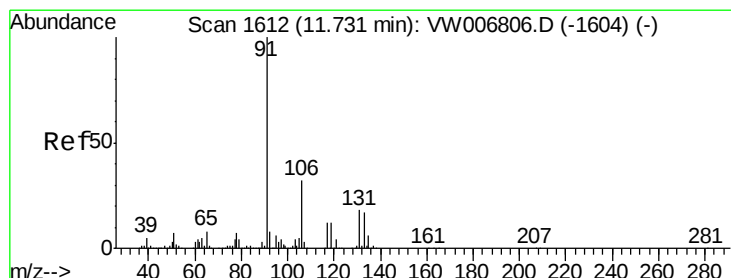
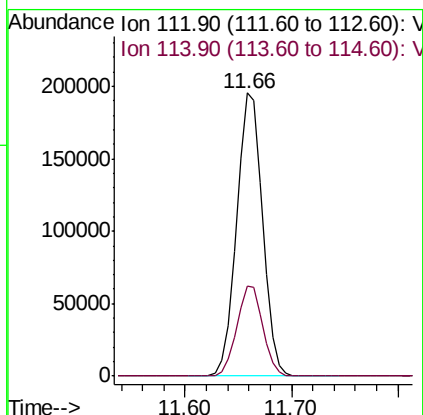
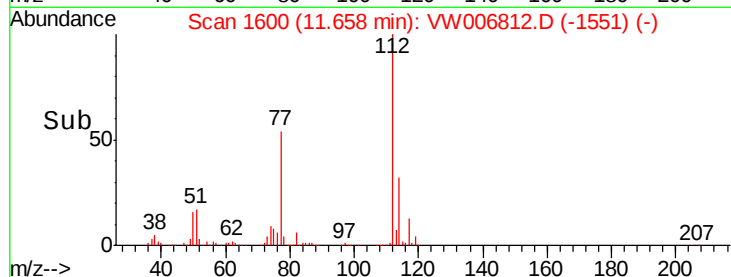
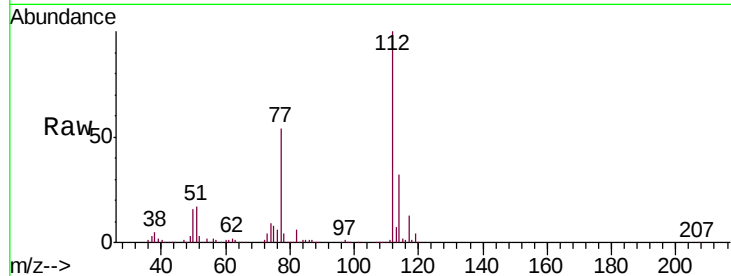




#65  
Chlorobenzene  
Concen: 38.570 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

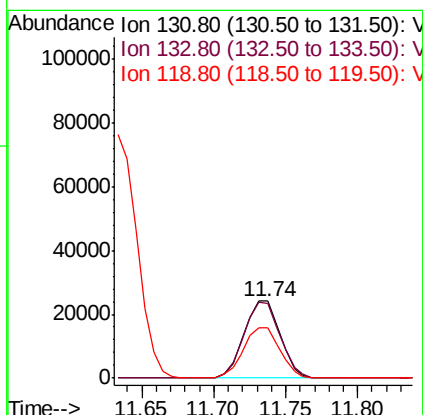
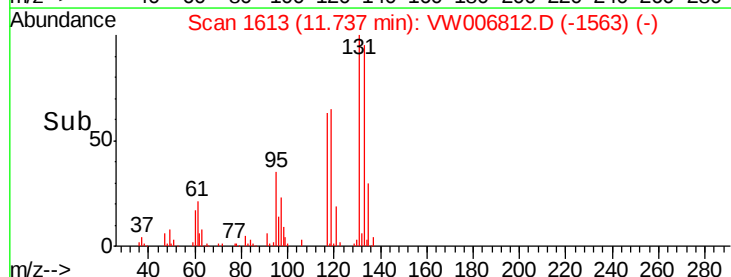
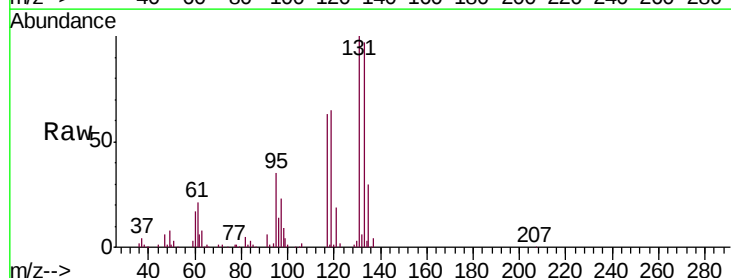
Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILDL

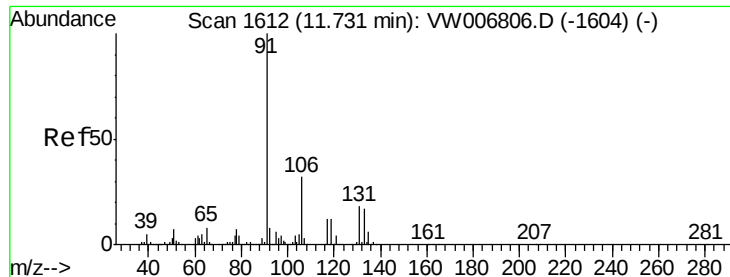
Tgt Ion:112 Resp: 333634  
Ion Ratio Lower Upper  
112 100  
114 32.0 26.0 39.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 14.892 ug/l  
RT: 11.74 min Scan# 1613  
Delta R.T. 0.01 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

Tgt Ion:131 Resp: 41800  
Ion Ratio Lower Upper  
131 100  
133 99.1 47.9 143.8  
119 66.9 32.4 97.2

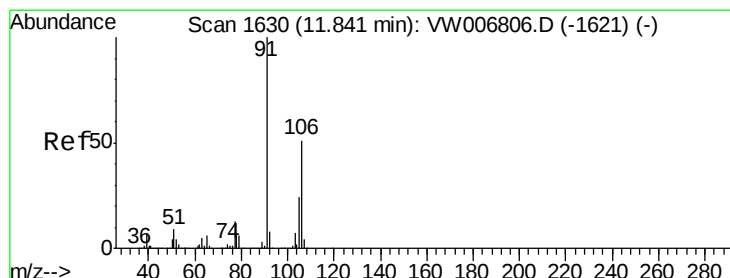
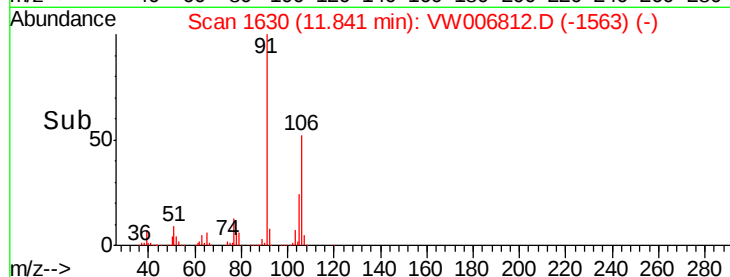
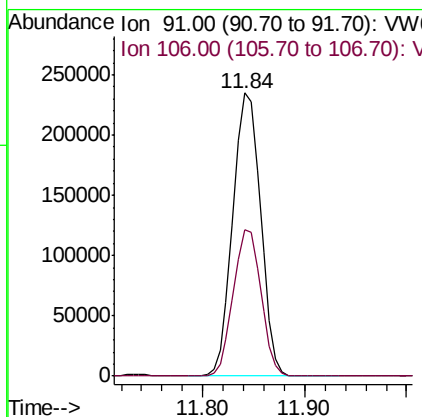
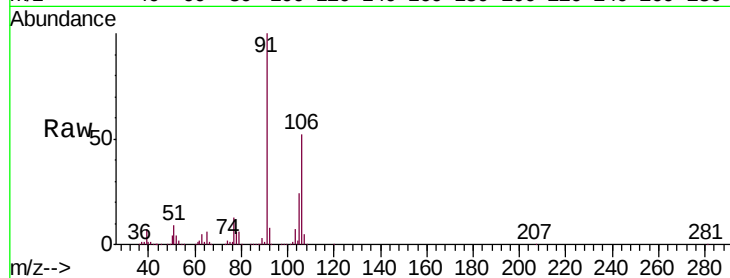




#67  
Ethyl Benzene  
Concen: 30.089 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.11 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

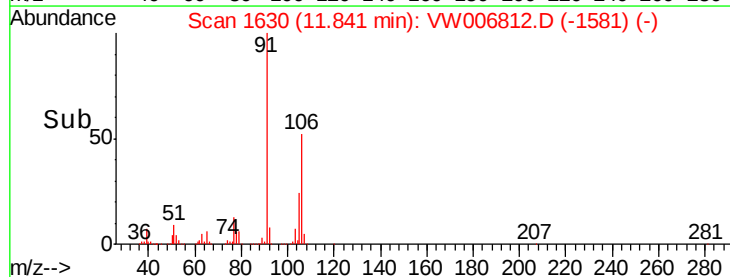
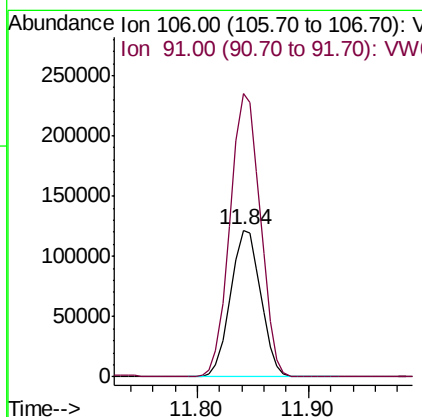
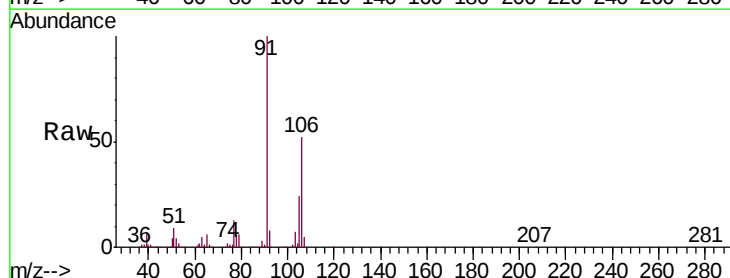
Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILDL

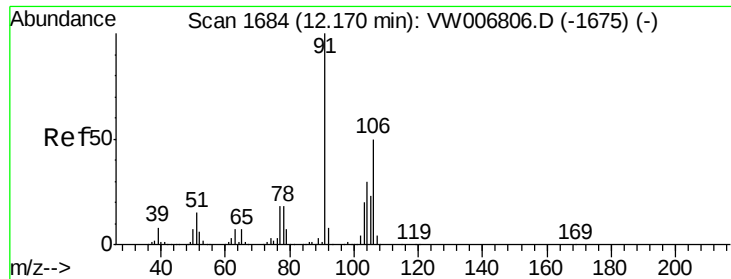
Tgt Ion: 91 Resp: 443716  
Ion Ratio Lower Upper  
91 100  
106 51.8 25.4 38.0#



#68  
m/p-Xylenes  
Concen: 37.854 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

Tgt Ion: 106 Resp: 228397  
Ion Ratio Lower Upper  
106 100  
91 194.3 155.7 233.5

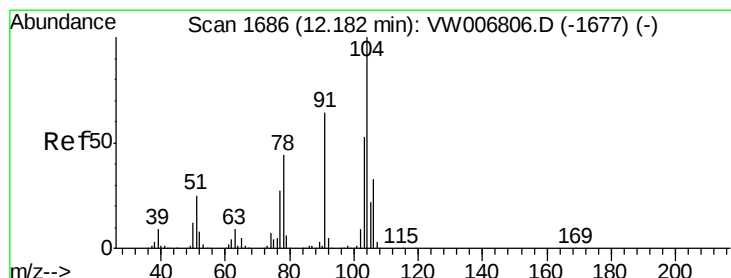
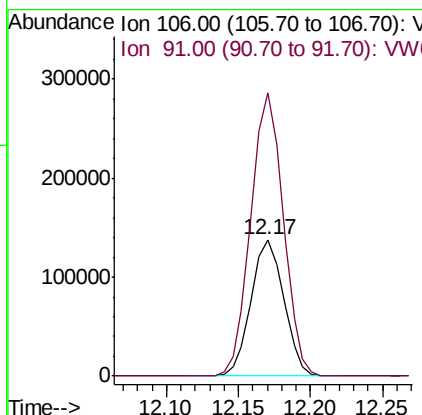
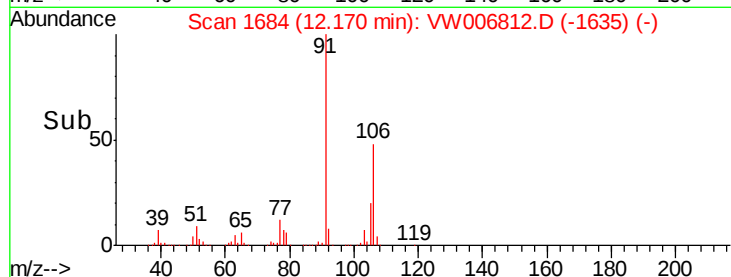
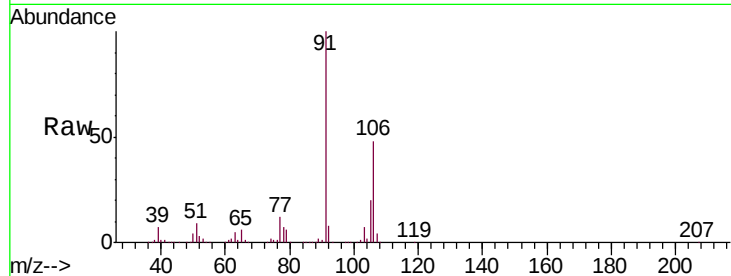




#69  
o-Xylene  
Concen: 38.689 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

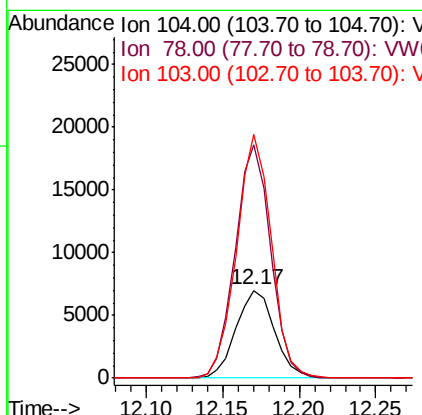
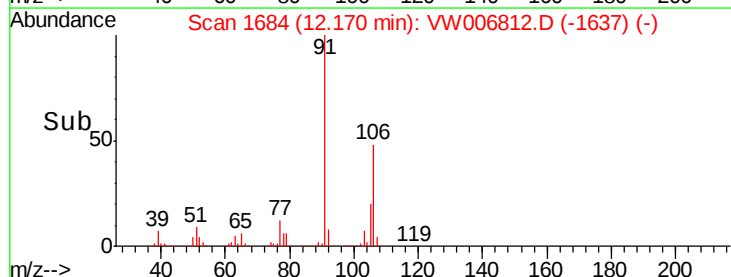
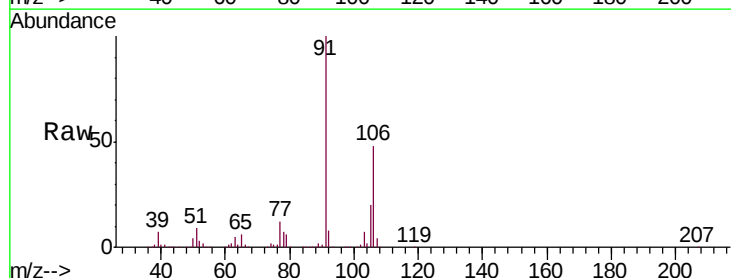
Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILD

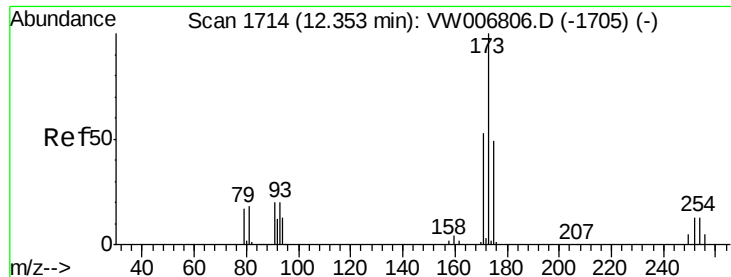
Tgt Ion:106 Resp: 217254  
Ion Ratio Lower Upper  
106 100  
91 206.2 101.9 305.7



#70  
Styrene  
Concen: 1.355 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.01 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

Tgt Ion:104 Resp: 12181  
Ion Ratio Lower Upper  
104 100  
78 246.0 37.3 55.9#  
103 251.1 44.6 66.8#





#71

Bromoform

Concen: 30.729 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILDL

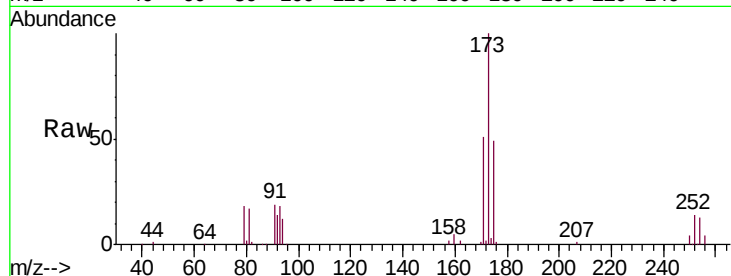
Tgt Ion:173 Resp: 47072

Ion Ratio Lower Upper

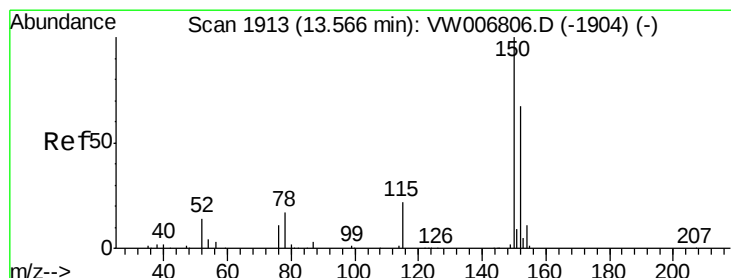
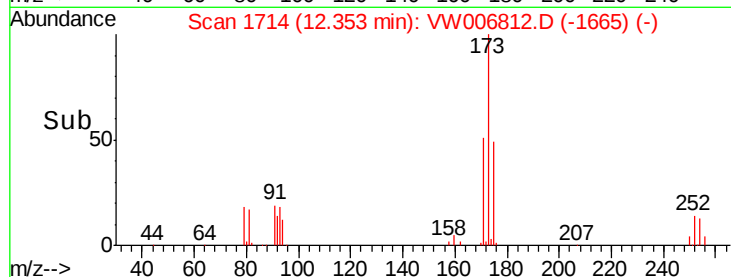
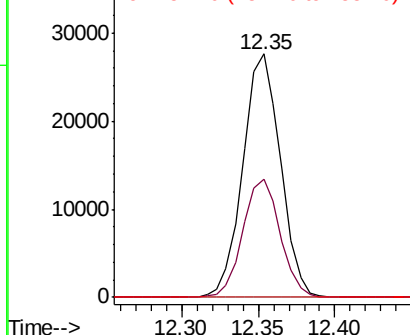
173 100

175 48.3 24.4 73.4

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.01 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

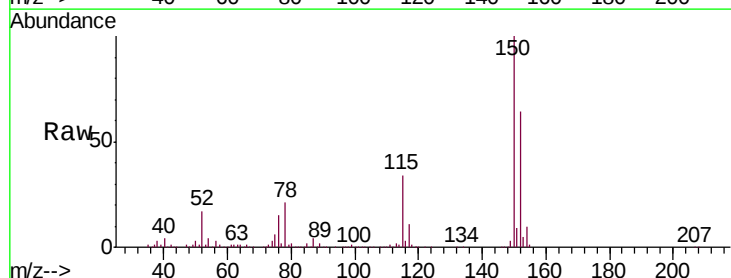
Tgt Ion:152 Resp: 219105

Ion Ratio Lower Upper

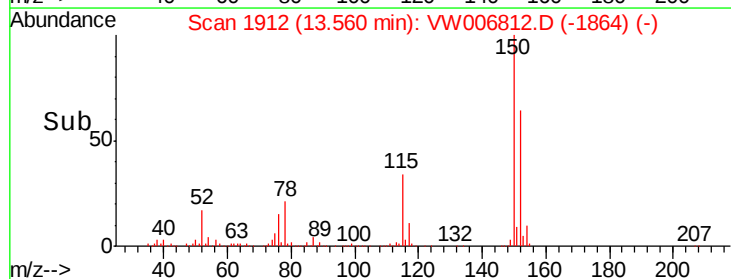
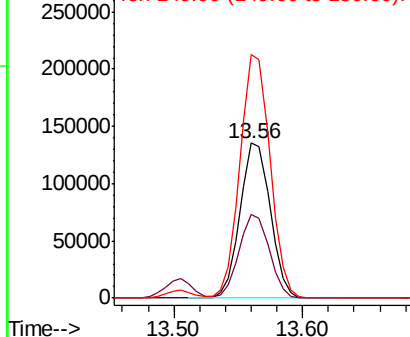
152 100

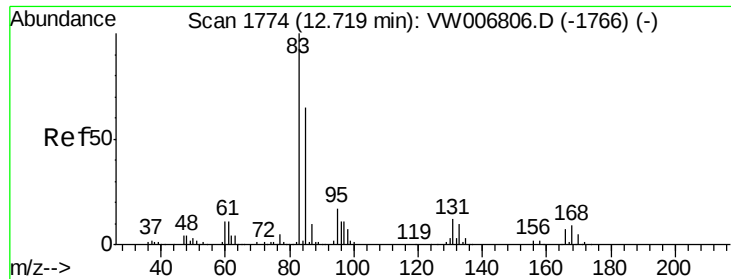
115 54.0 27.3 81.8

150 157.1 0.0 353.0



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





#75

1,1,2,2-Tetrachloroethane

Concen: 6.364 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILDL

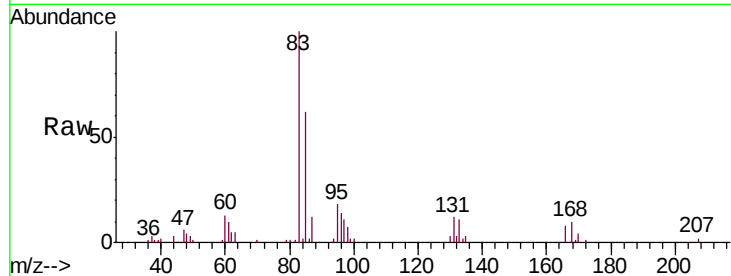
Tgt Ion: 83 Resp: 13389

Ion Ratio Lower Upper

83 100

131 12.3 6.1 18.3

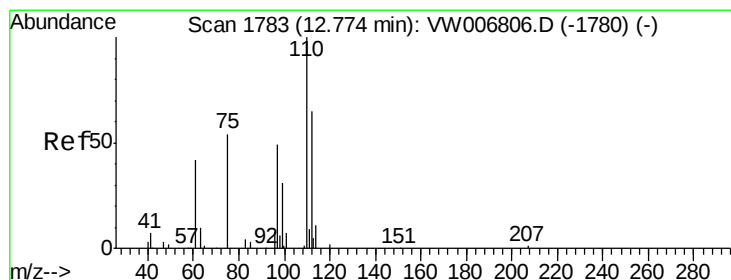
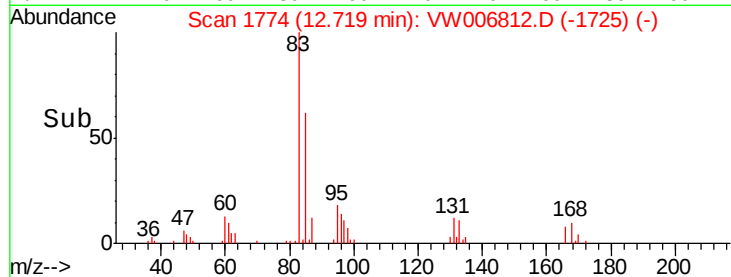
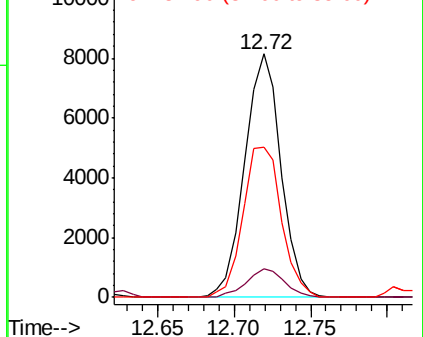
85 65.4 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 49.097 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006812.D

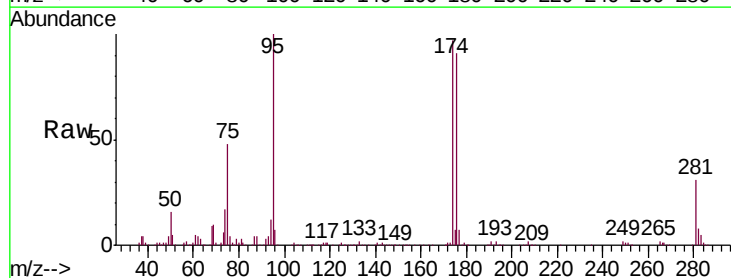
Acq: 12 Nov 2018 17:48

Tgt Ion: 75 Resp: 77525

Ion Ratio Lower Upper

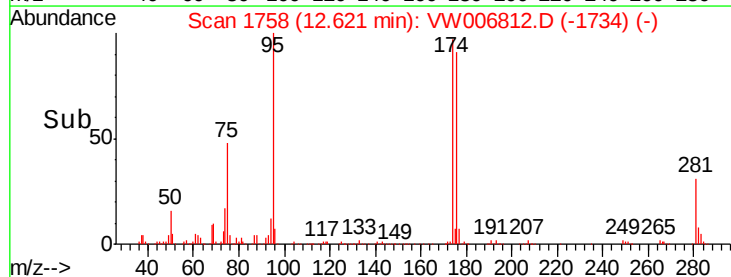
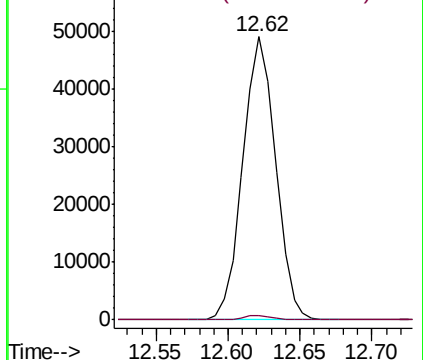
75 100

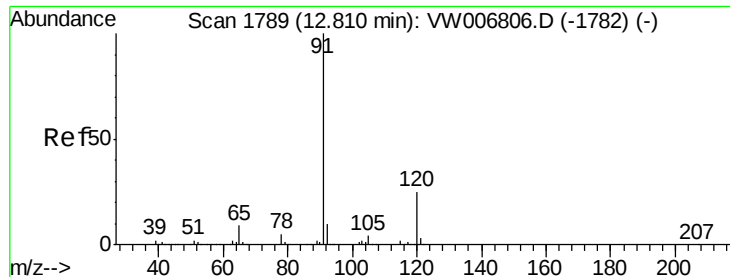
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 17.575 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

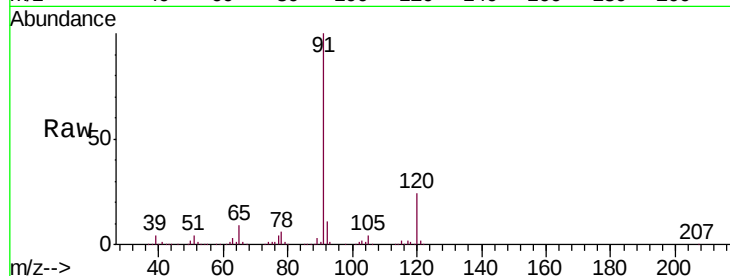
PT-VOA-SOILD

Tgt Ion: 91 Resp: 315468

Ion Ratio Lower Upper

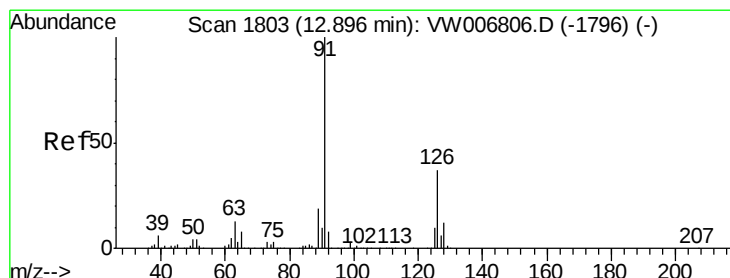
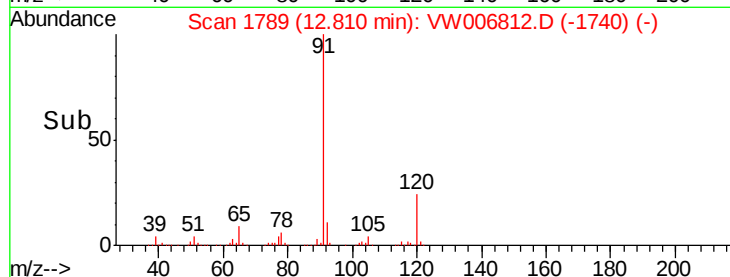
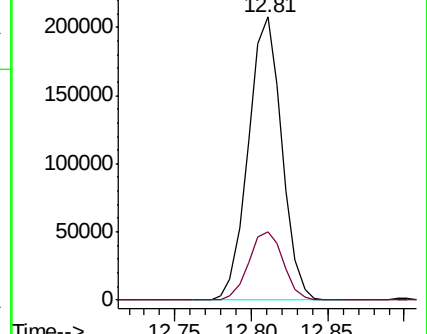
91 100

120 24.9 12.4 37.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 31.325 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.09 min

Lab File: VW006812.D

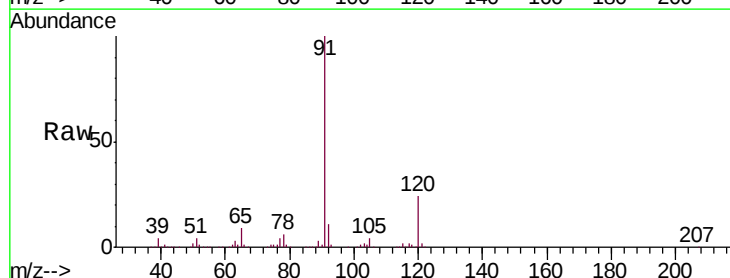
Acq: 12 Nov 2018 17:48

Tgt Ion: 91 Resp: 315468

Ion Ratio Lower Upper

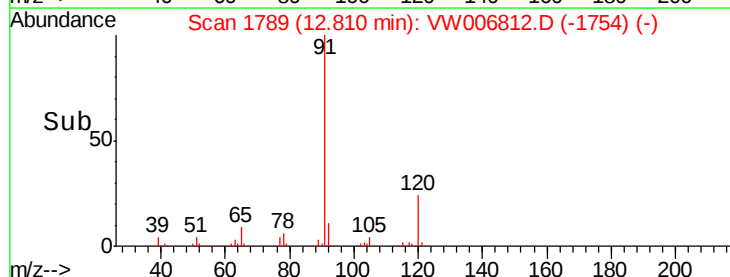
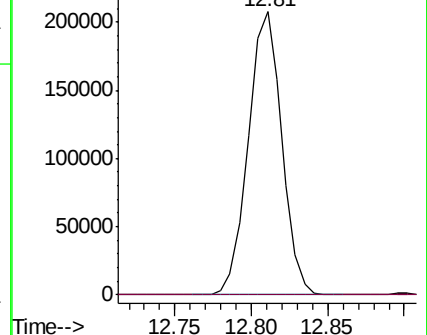
91 100

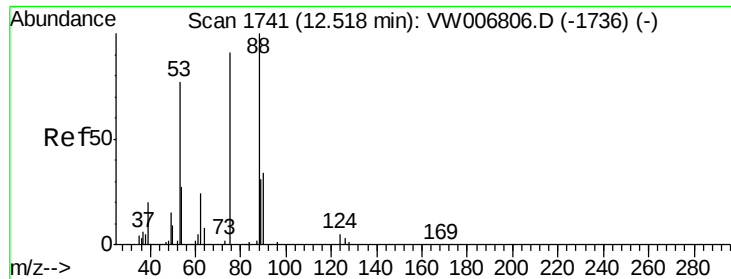
126 0.0 18.5 55.5#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

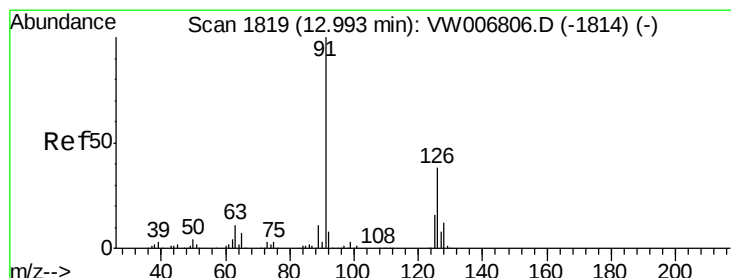
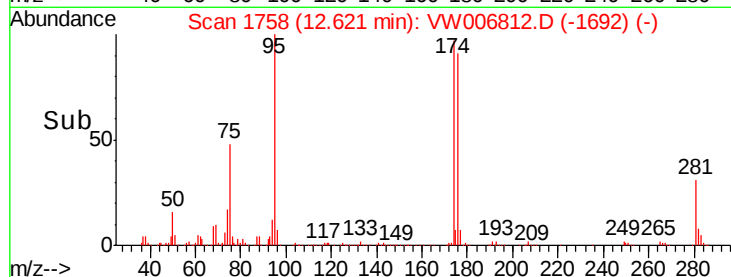
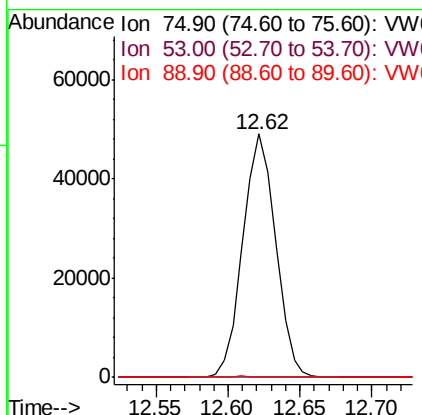
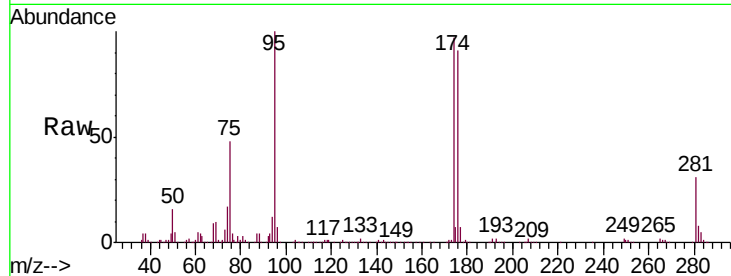




#81  
trans-1,4-Dichloro-2-butene  
Concen: 121.445 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.10 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

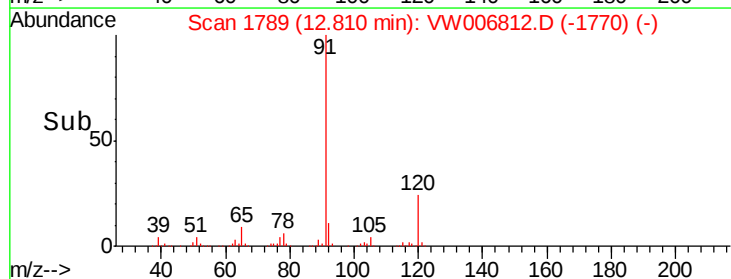
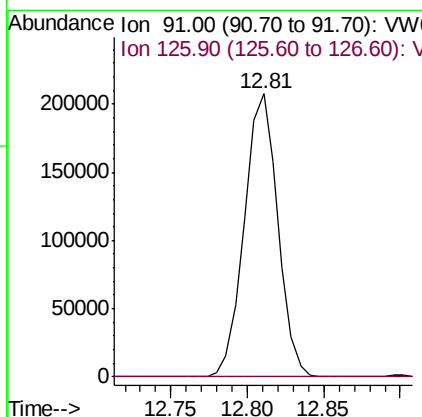
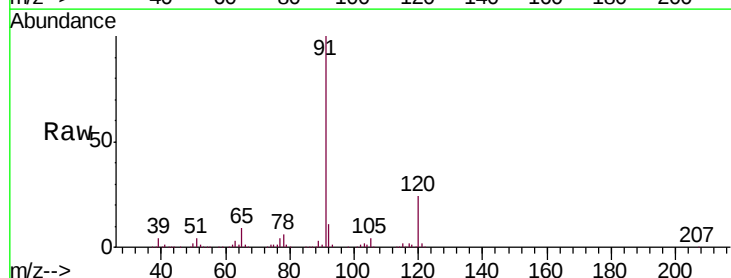
Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILDL

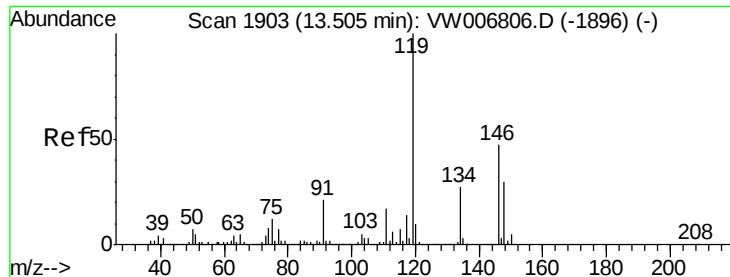
Tgt Ion: 75 Resp: 77525  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.9 109.3#  
89 0.3 38.7 58.1#



#82  
4-Chlorotoluene  
Concen: 29.359 ug/l  
RT: 12.81 min Scan# 1789  
Delta R.T. -0.18 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

Tgt Ion: 91 Resp: 315468  
Ion Ratio Lower Upper  
91 100  
126 0.0 18.4 55.2#

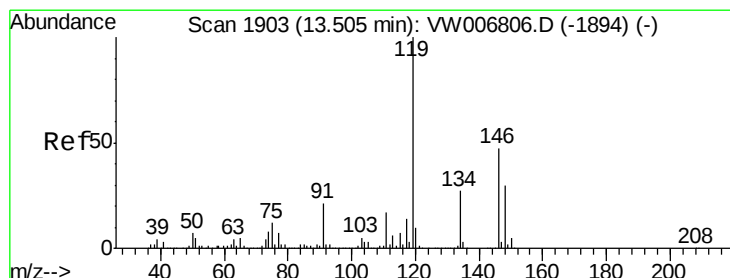
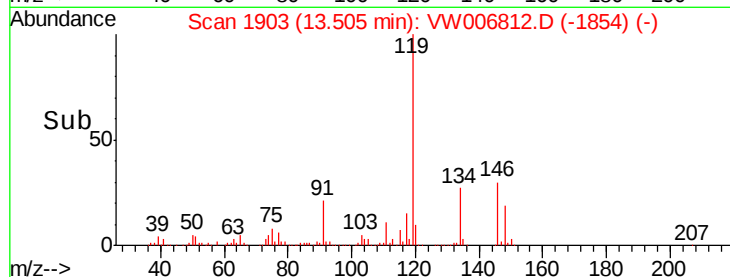
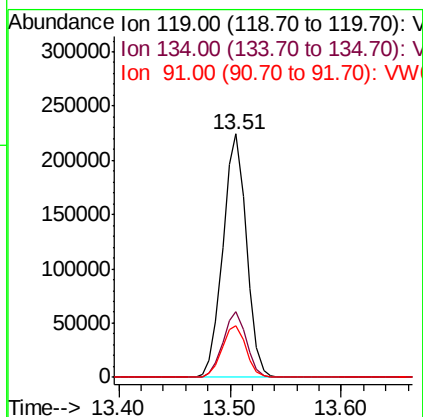
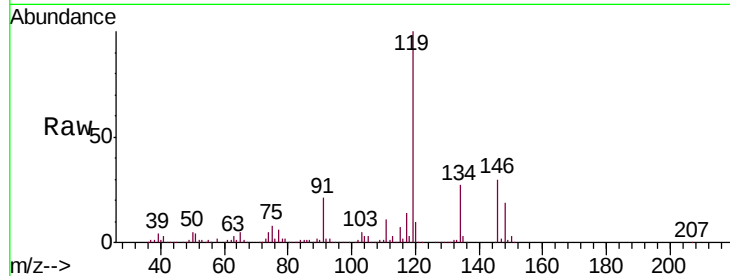




#86  
p-Isopropyltoluene  
Concen: 21.961 ug/l  
RT: 13.51 min Scan# 1903  
Delta R.T. 0.00 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

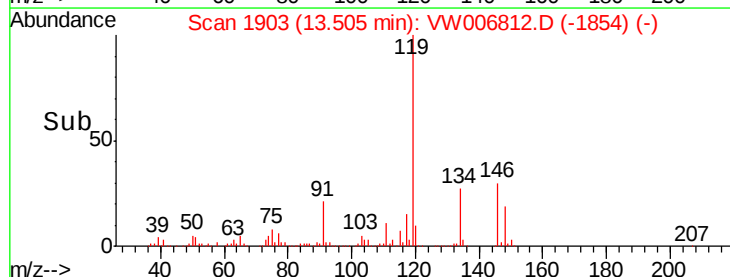
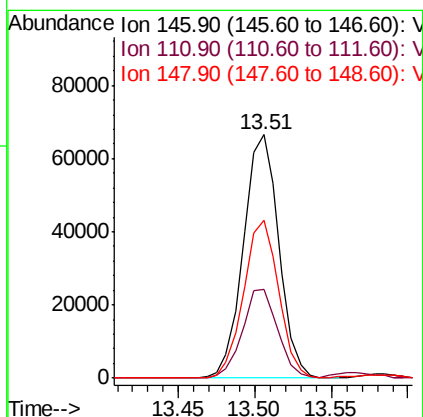
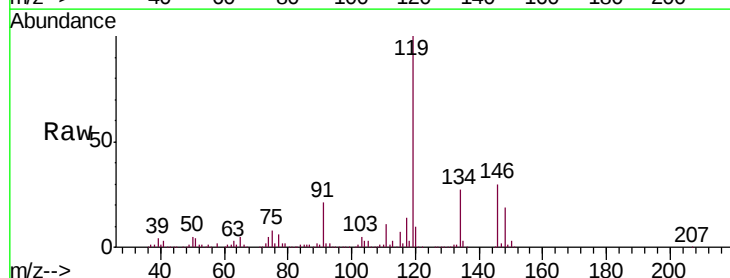
Instrument :  
MSVOA\_W  
ClientSampleId :  
PT-VOA-SOILDL

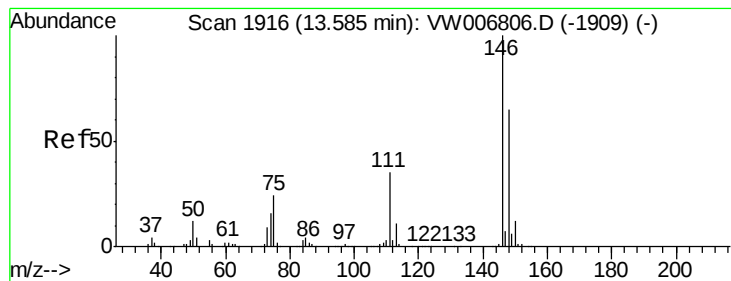
Tgt Ion:119 Resp: 327140  
Ion Ratio Lower Upper  
119 100  
134 26.7 13.5 40.4  
91 21.8 10.8 32.4



#87  
1,3-Dichlorobenzene  
Concen: 13.684 ug/l  
RT: 13.51 min Scan# 1903  
Delta R.T. 0.00 min  
Lab File: VW006812.D  
Acq: 12 Nov 2018 17:48

Tgt Ion:146 Resp: 106936  
Ion Ratio Lower Upper  
146 100  
111 36.4 18.3 54.9  
148 64.4 31.9 95.9





#88

1,4-Dichlorobenzene

Concen: 13.831 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.08 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

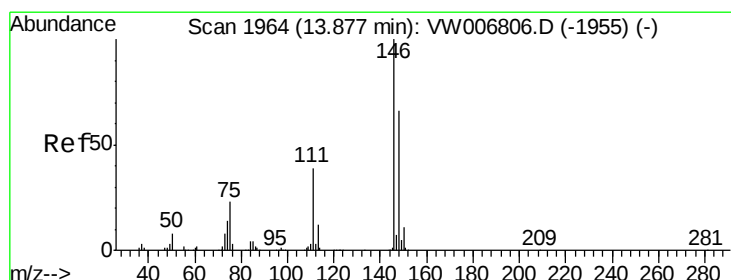
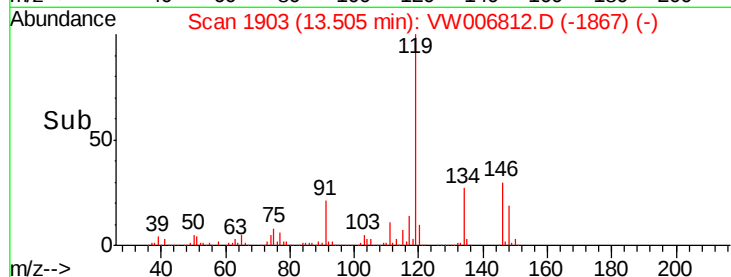
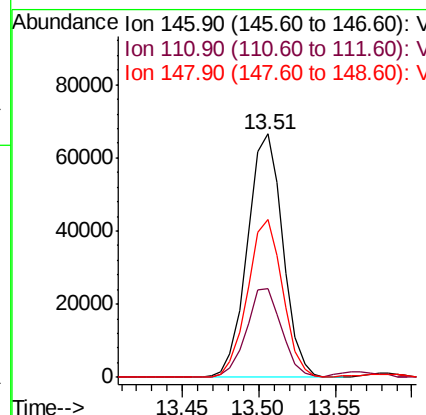
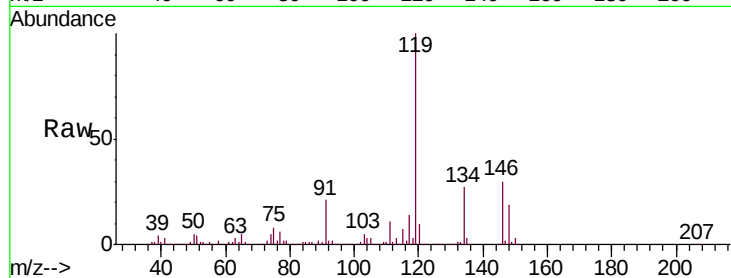
Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILDL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 106936 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 36.4  | 17.8  | 53.3   |
| 148      | 64.4  | 32.0  | 96.0   |



#91

1,2-Dichlorobenzene

Concen: 30.656 ug/l

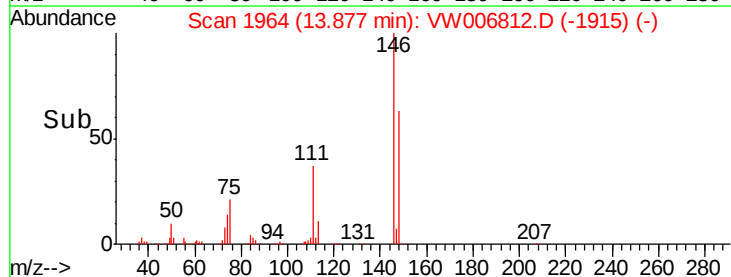
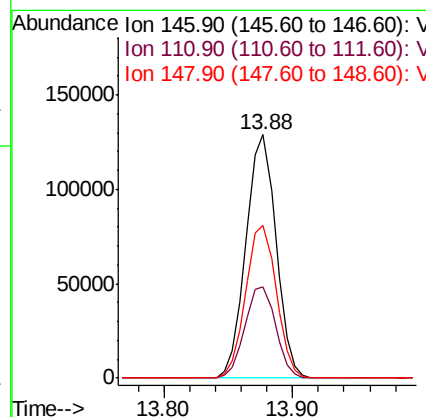
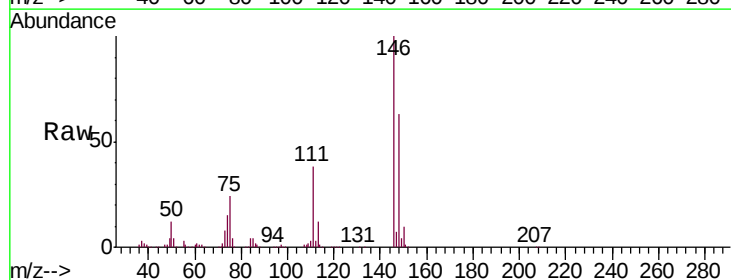
RT: 13.88 min Scan# 1964

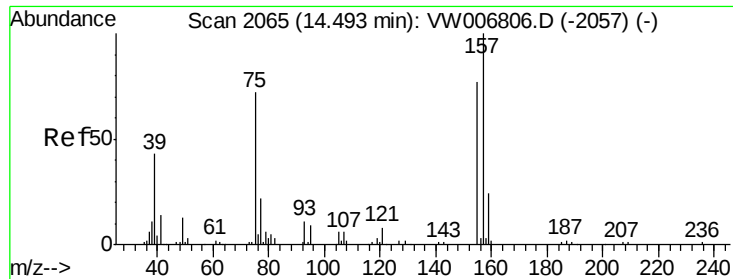
Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 208636 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 38.6  | 19.3  | 57.8   |
| 148      | 63.8  | 32.4  | 97.2   |





#92

1,2-Dibromo-3-Chloropropane

Concen: 18.431 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.01 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

PT-VOA-SOILDL

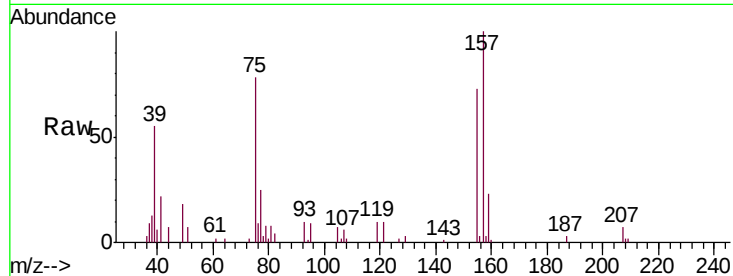
Tgt Ion: 75 Resp: 6208

Ion Ratio Lower Upper

75 100

155 99.2 51.0 153.1

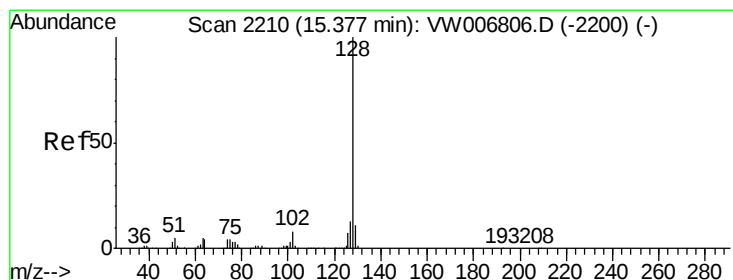
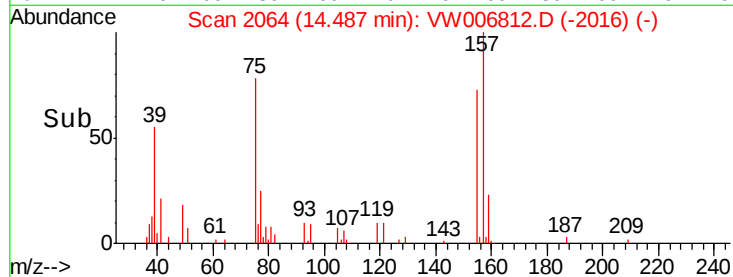
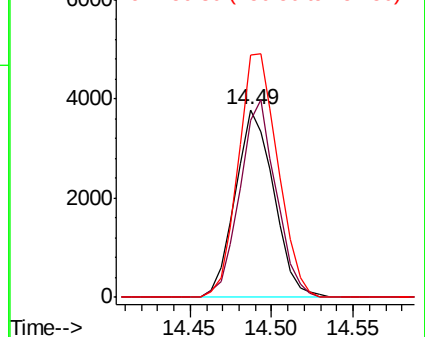
157 133.5 67.4 202.2



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 22.324 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW006812.D

Acq: 12 Nov 2018 17:48

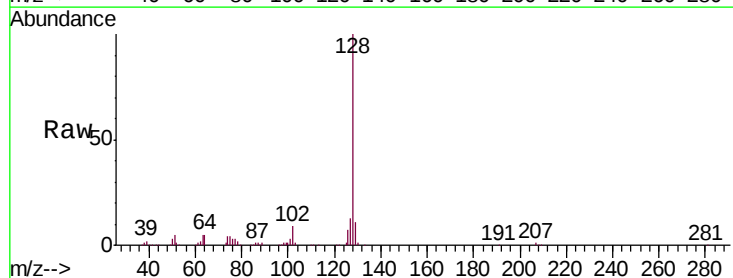
Tgt Ion: 128 Resp: 171557

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

129 11.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

