

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\WV122418\  
 Data File : VW007850.D  
 Acq On : 22 Dec 2018 18:28  
 Operator : SY/AP  
 Sample : J6388-10RE  
 Misc : 4.69G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS010-0006-01RE

Quant Time: Dec 23 23:56:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 34367    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 54583    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 31582    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 6593     | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 20571    | 54.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.22% |      |
| 35) Dibromofluoromethane    | 7.89   | 113 | 16329    | 49.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.08%  |      |
| 50) Toluene-d8              | 10.32  | 98  | 48804    | 38.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 77.76%  |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 9997     | 20.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 41.22%  |      |

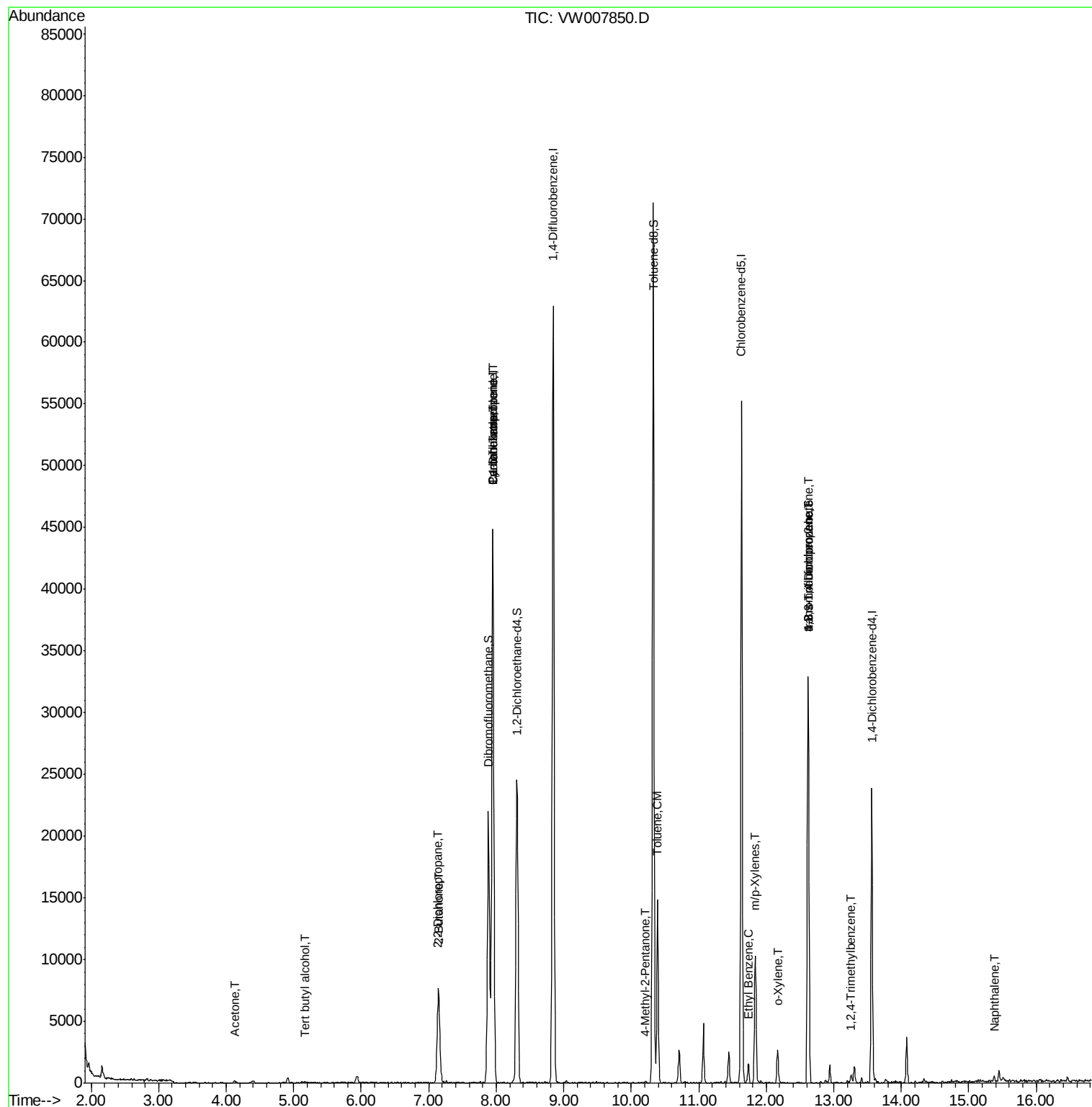
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 115      | 4.526     | ug/l # | 73     |
| 16) Acetone                    | 4.12  | 43   | 253      | 3.587     | ug/l   | 91     |
| 20) Methylene Chloride         | 4.92  | 84   | 227      | Below Cal | #      | 85     |
| 25) 2-Butanone                 | 7.14  | 43   | 353      | 4.273     | ug/l # | 44     |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 541      | 1.207     | ug/l # | 53     |
| 31) Cyclohexane                | 7.95  | 56   | 666      | 1.188     | ug/l # | 34     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 2494     | 4.734     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 3596     | 5.796     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 230      | 1.336     | ug/l # | 47     |
| 52) Toluene                    | 10.39 | 92   | 6602     | 6.999     | ug/l   | 97     |
| 67) Ethyl Benzene              | 11.74 | 91   | 1484     | 1.265     | ug/l   | 92     |
| 68) m/p-Xylenes                | 11.84 | 106  | 3184     | 6.997     | ug/l   | 99     |
| 69) o-Xylene                   | 12.16 | 106  | 818      | 1.918     | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 5006     | 98.238    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 5006     | 206.209   | ug/l # | 9      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 599      | 1.381     | ug/l   | 100    |
| 95) Naphthalene                | 15.38 | 128  | 646      | 2.479     | ug/l # | 69     |

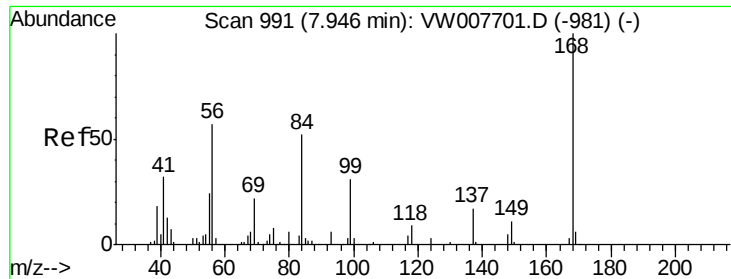
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 20 06:30:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Instrument :

MSVOA\_W

ClientSampleId :

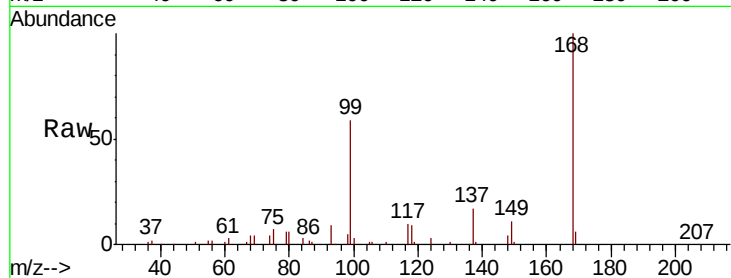
P001-SS010-0006-01RE

Tgt Ion:168 Resp: 34367

Ion Ratio Lower Upper

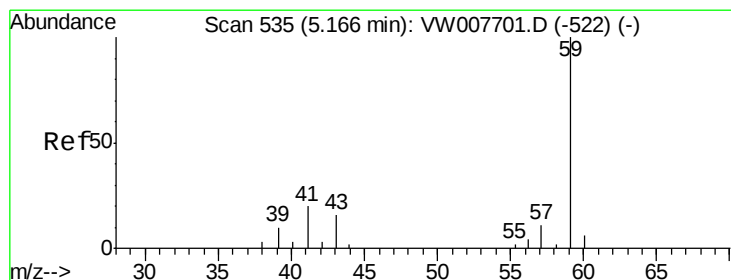
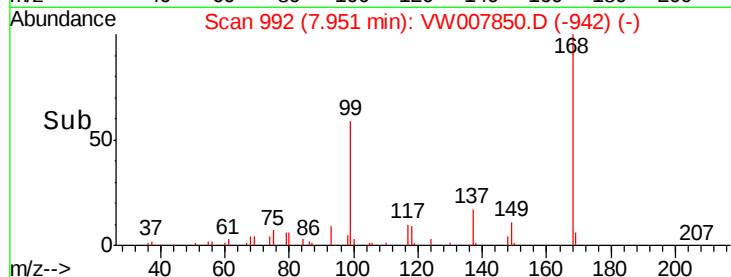
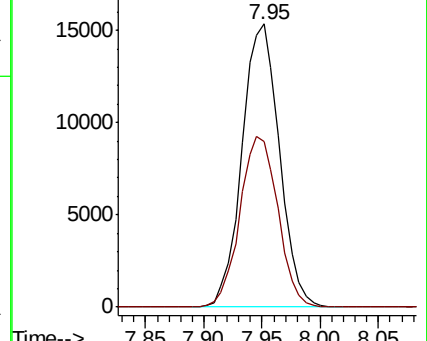
168 100

99 58.6 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 4.526 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.00 min

Lab File: VW007850.D

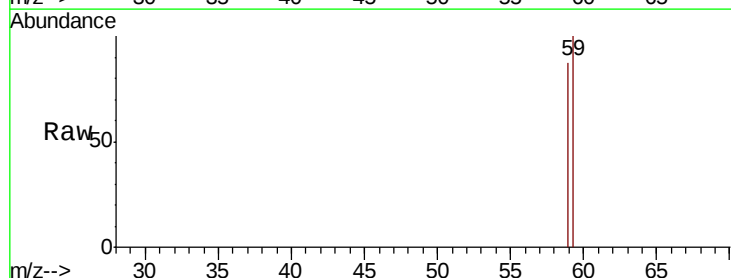
Acq: 22 Dec 2018 18:28

Tgt Ion: 59 Resp: 115

Ion Ratio Lower Upper

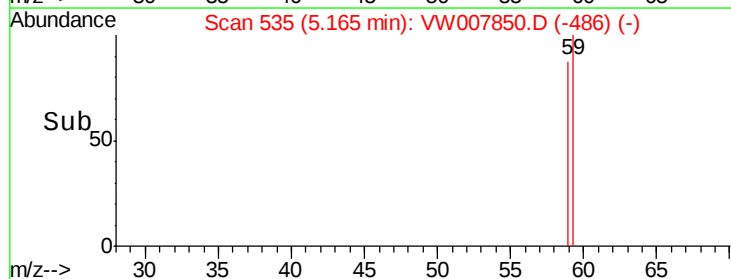
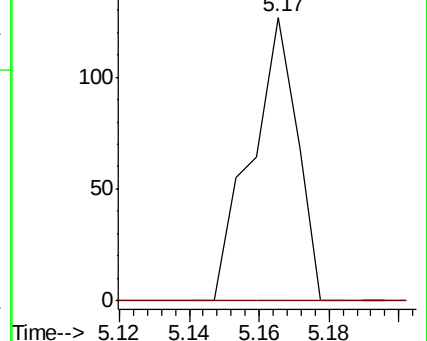
59 100

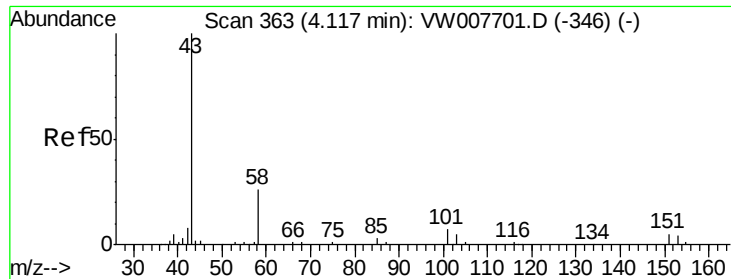
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 3.587 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Instrument :

MSVOA\_W

ClientSampleId :

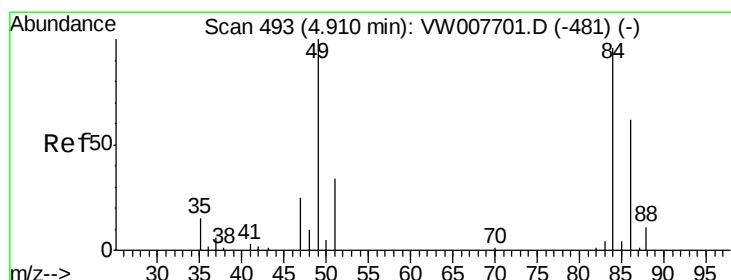
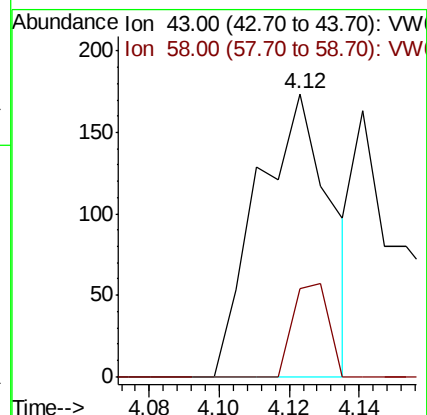
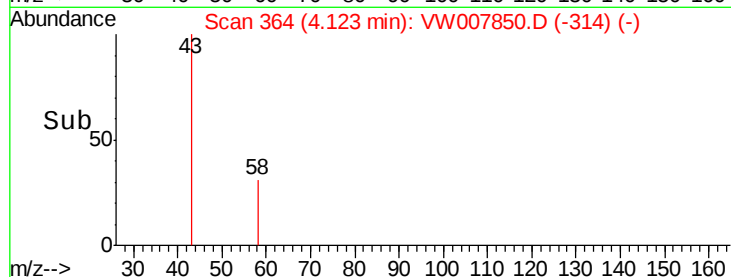
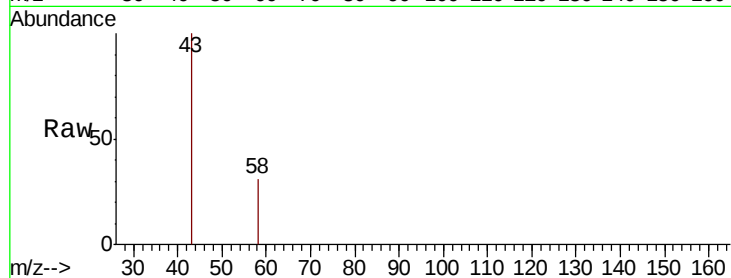
P001-SS010-0006-01RE

Tgt Ion: 43 Resp: 253

Ion Ratio Lower Upper

43 100

58 31.0 21.2 31.8



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Tgt Ion: 84 Resp: 227

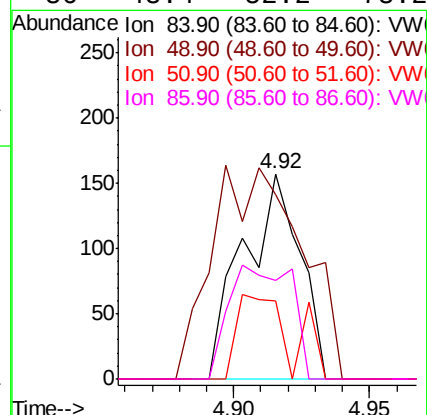
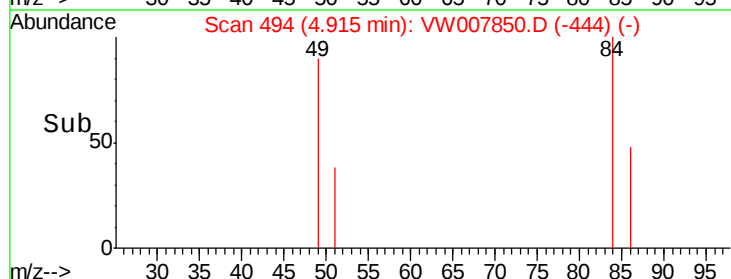
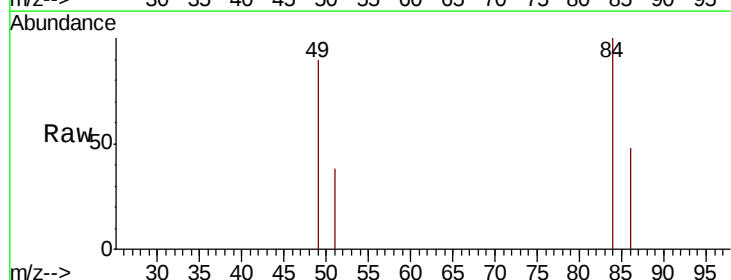
Ion Ratio Lower Upper

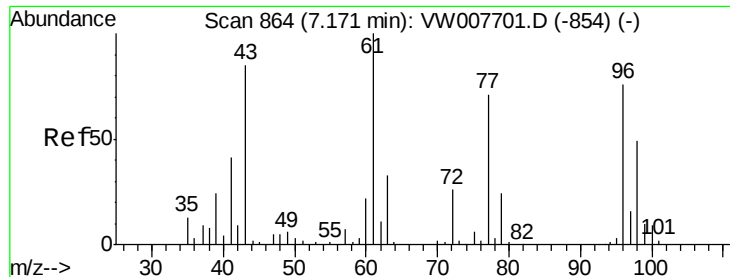
84 100

49 89.8 83.7 125.5

51 38.2 28.2 42.2

86 48.4 52.2 78.2#

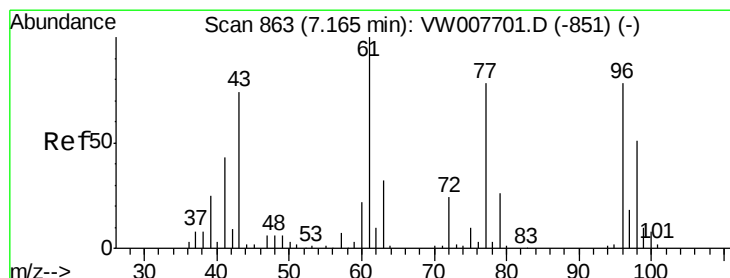
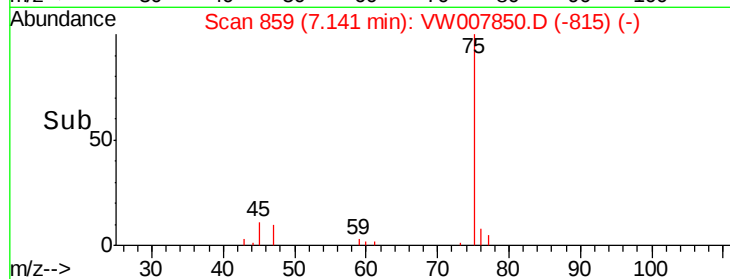
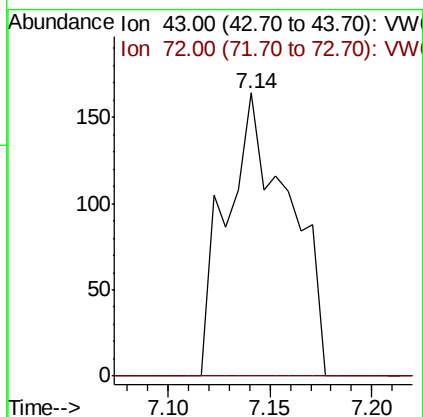
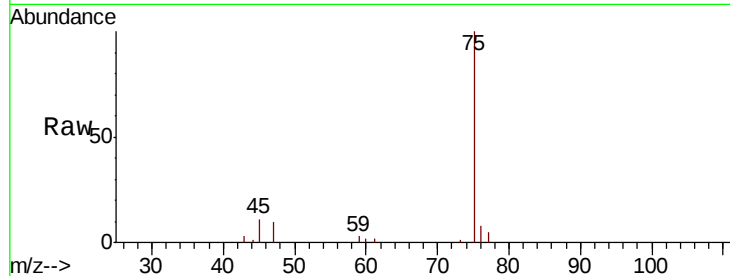




#25  
 2-Butanone  
 Concen: 4.273 ug/l  
 RT: 7.14 min Scan# 859  
 Delta R.T. -0.03 min  
 Lab File: VW007850.D  
 Acq: 22 Dec 2018 18:28

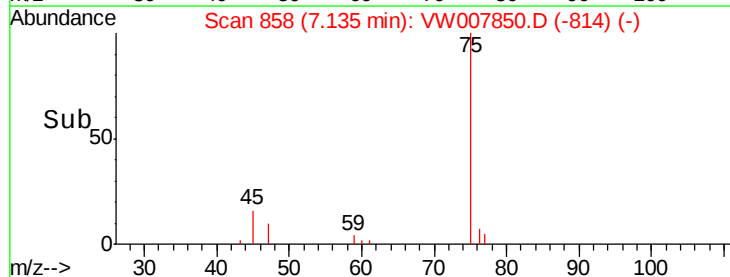
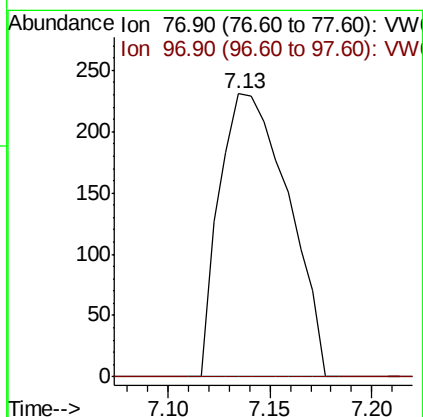
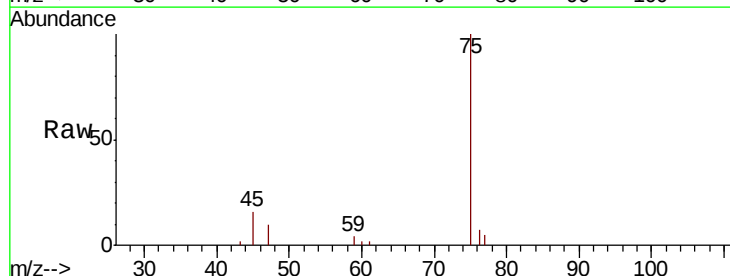
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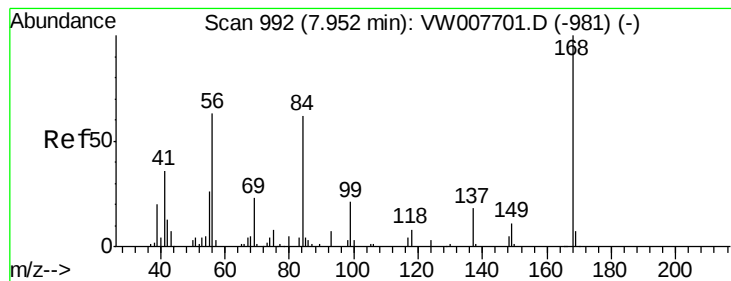
Tgt Ion: 43 Resp: 353  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 24.5 36.7#



#26  
 2,2-Dichloropropane  
 Concen: 1.207 ug/l  
 RT: 7.13 min Scan# 858  
 Delta R.T. -0.03 min  
 Lab File: VW007850.D  
 Acq: 22 Dec 2018 18:28

Tgt Ion: 77 Resp: 541  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 11.3 33.9#





#31

Cyclohexane

Concen: 1.188 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS010-0006-01RE

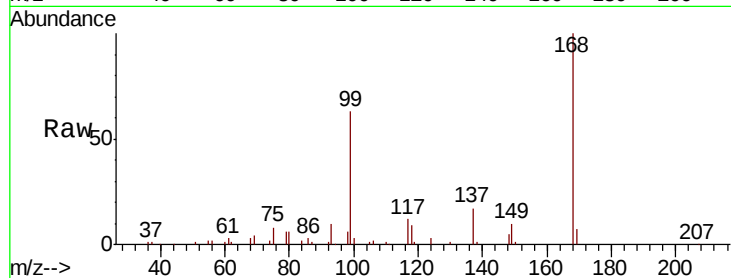
Tgt Ion: 56 Resp: 666

Ion Ratio Lower Upper

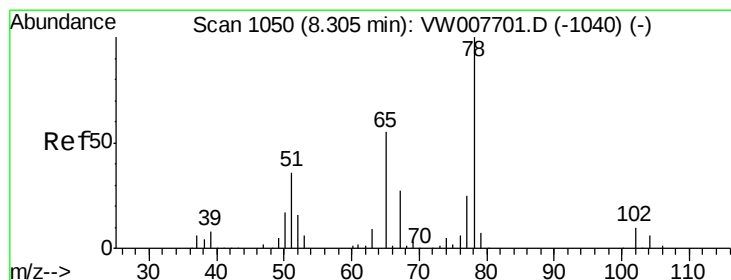
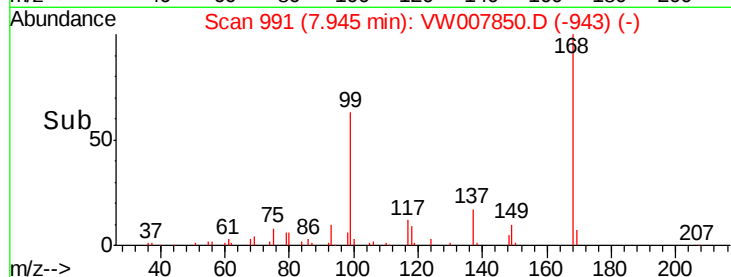
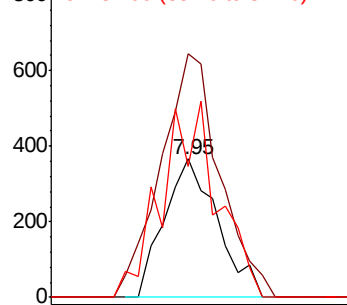
56 100

69 175.5 29.7 44.5#

84 94.8 78.9 118.3



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 54.612 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007850.D

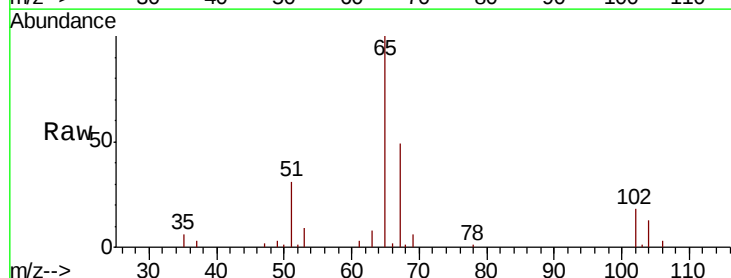
Acq: 22 Dec 2018 18:28

Tgt Ion: 65 Resp: 20571

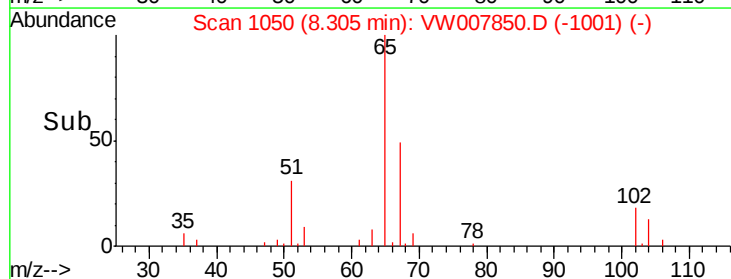
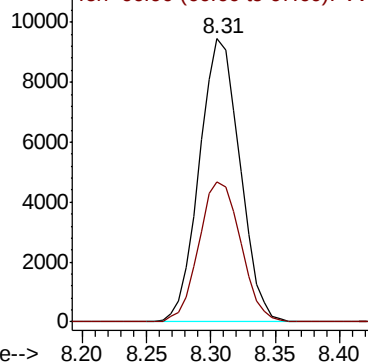
Ion Ratio Lower Upper

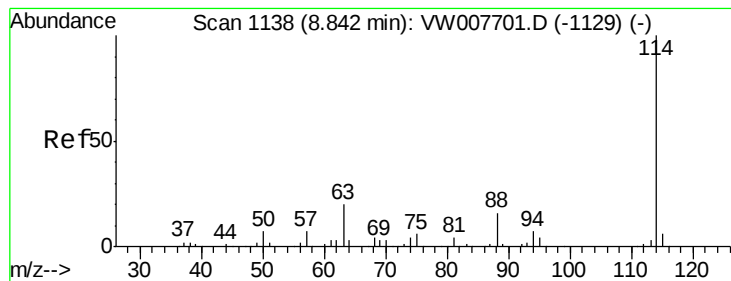
65 100

67 51.0 0.0 100.6



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: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

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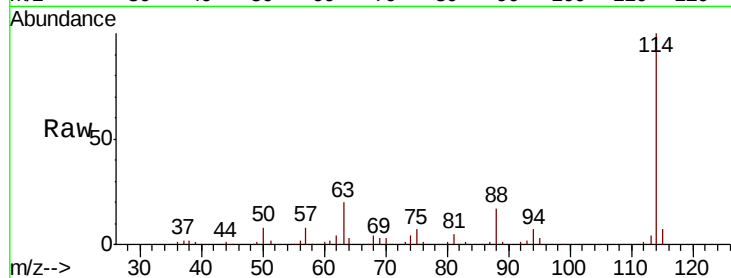
Tgt Ion:114 Resp: 54583

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

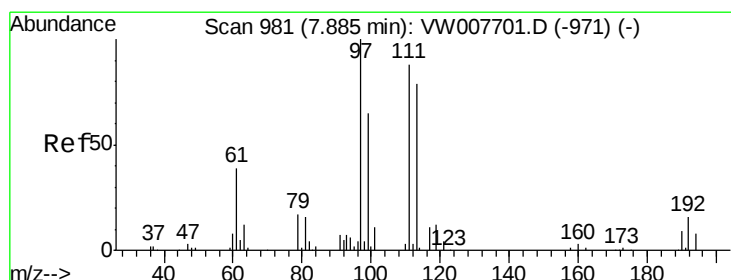
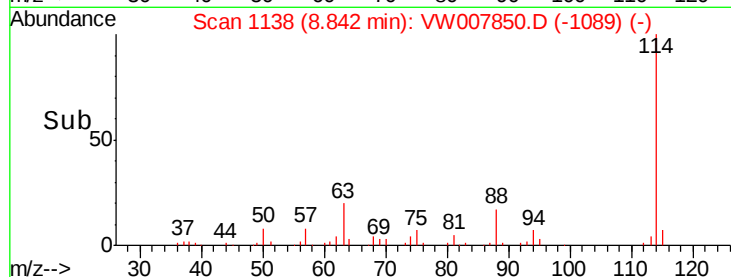
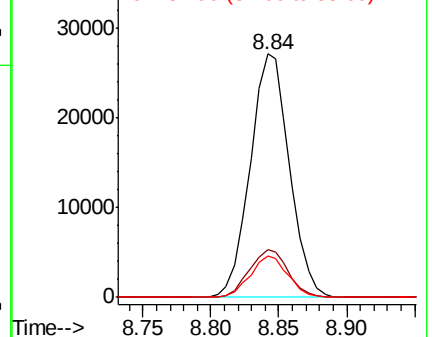
88 17.2 0.0 32.6



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: 49.038 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

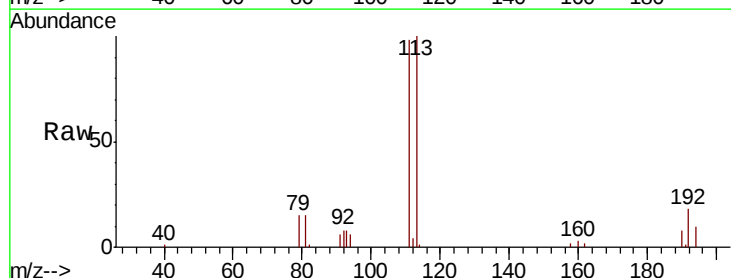
Tgt Ion:113 Resp: 16329

Ion Ratio Lower Upper

113 100

111 101.9 82.6 124.0

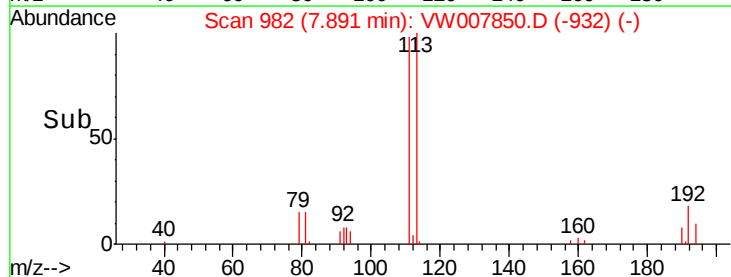
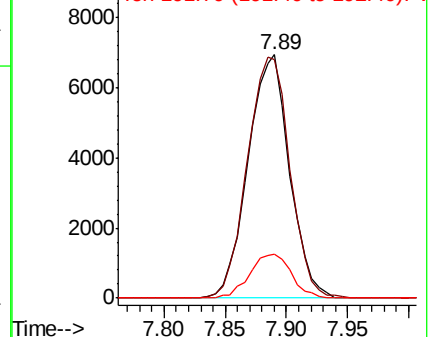
192 18.3 15.5 23.3

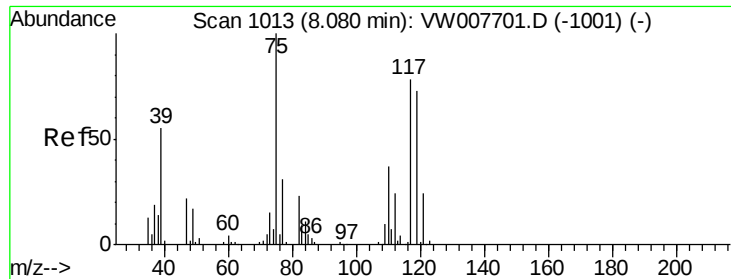


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.734 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

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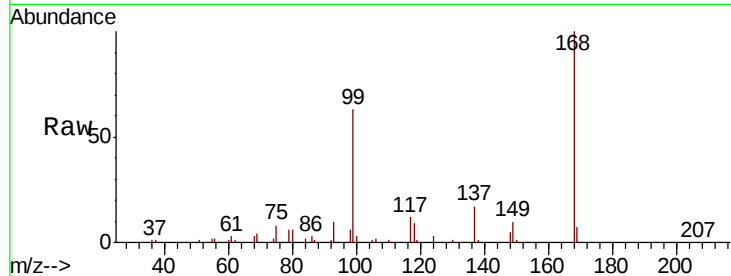
Tgt Ion: 75 Resp: 2494

Ion Ratio Lower Upper

75 100

110 8.6 18.6 55.8#

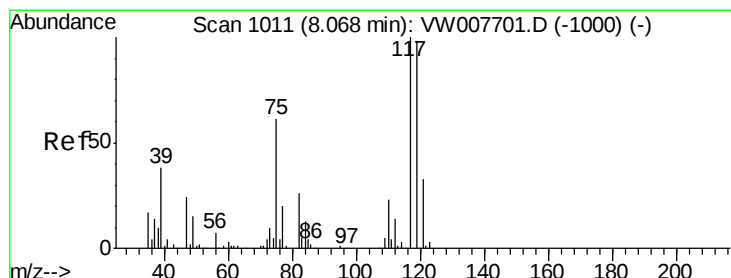
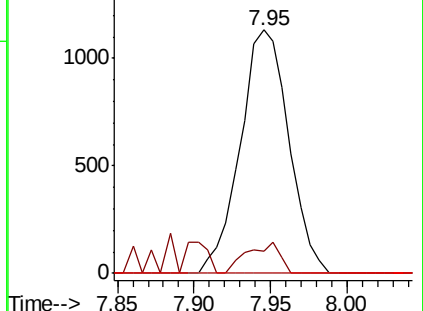
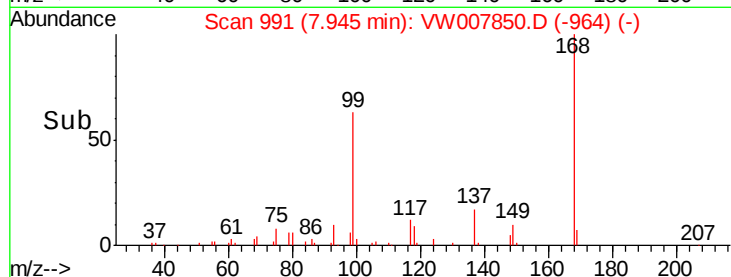
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 5.796 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

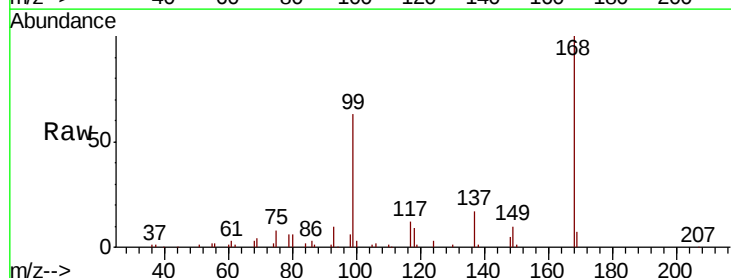
Tgt Ion: 117 Resp: 3596

Ion Ratio Lower Upper

117 100

119 5.8 78.2 117.2#

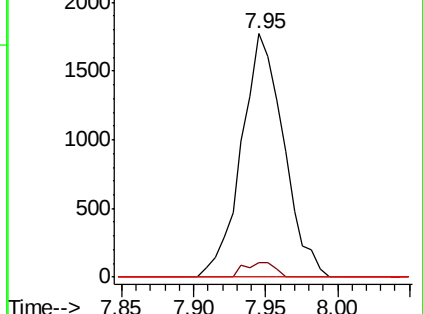
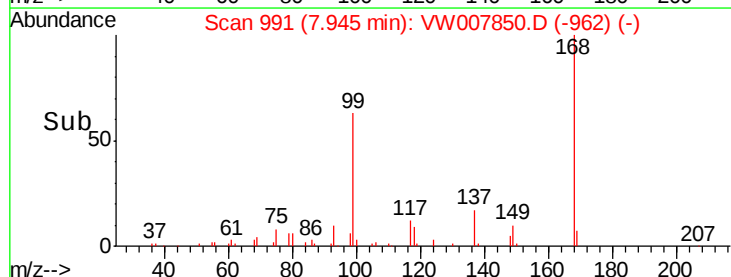
121 0.0 26.1 39.1#

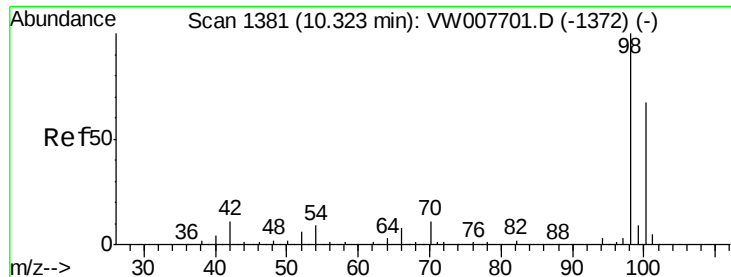


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 38.878 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Instrument :

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ClientSampleId :

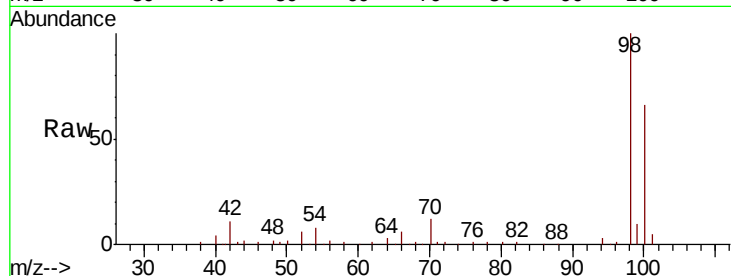
P001-SS010-0006-01RE

Tgt Ion: 98 Resp: 48804

Ion Ratio Lower Upper

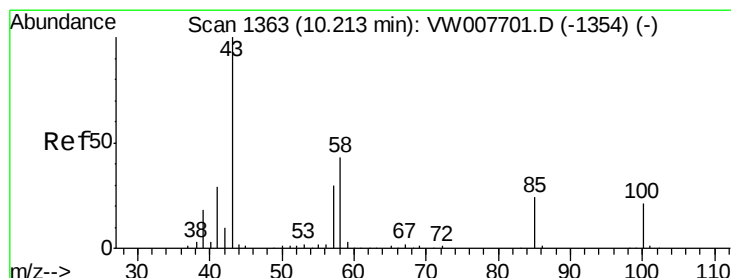
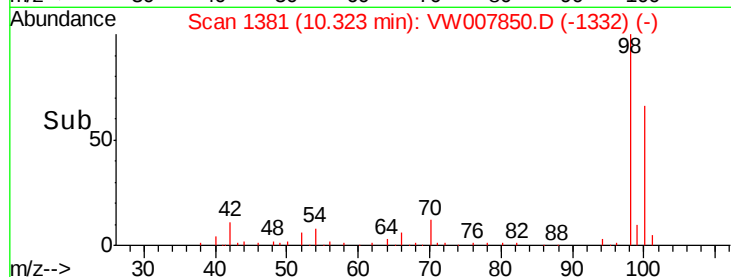
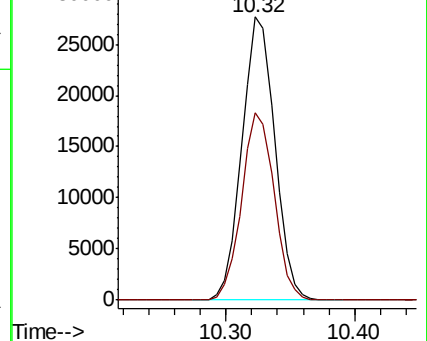
98 100

100 65.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.336 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007850.D

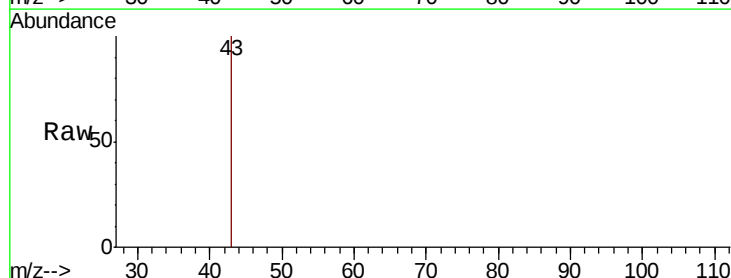
Acq: 22 Dec 2018 18:28

Tgt Ion: 43 Resp: 230

Ion Ratio Lower Upper

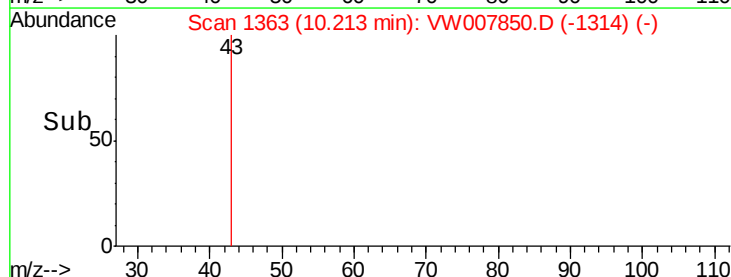
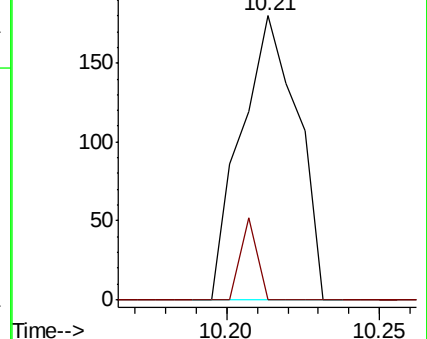
43 100

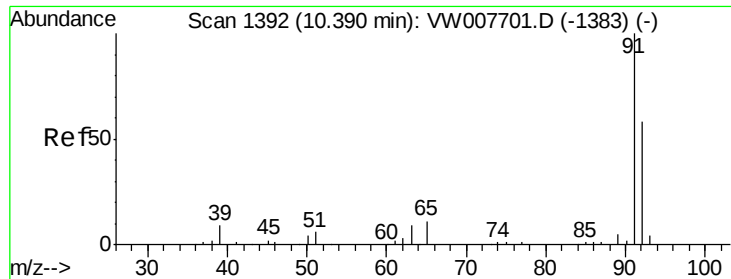
58 8.3 33.2 49.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 6.999 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Instrument :

MSVOA\_W

ClientSampleId :

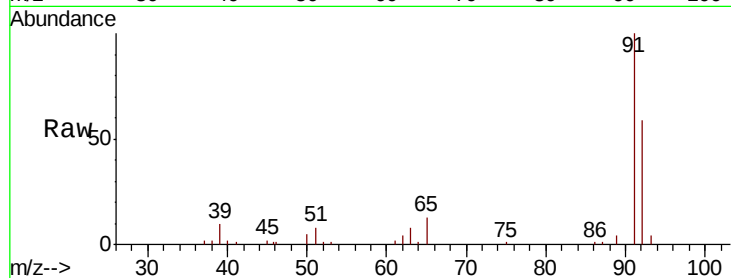
P001-SS010-0006-01RE

Tgt Ion: 92 Resp: 6602

Ion Ratio Lower Upper

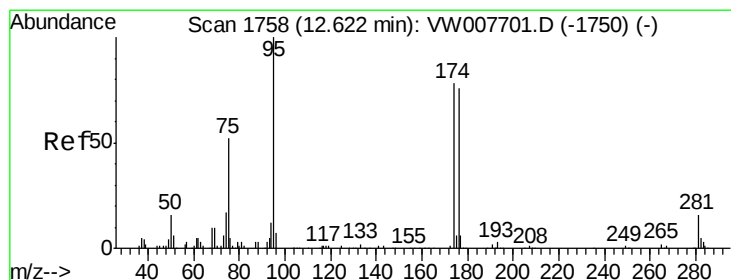
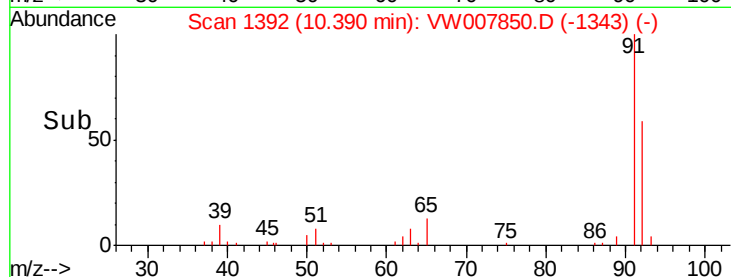
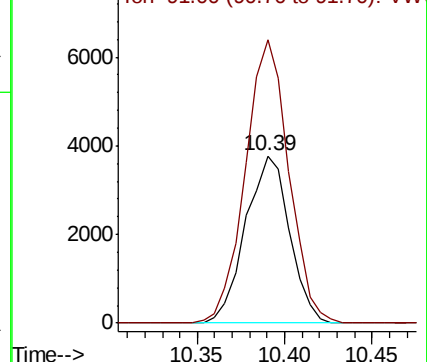
92 100

91 166.8 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#62

4-Bromofluorobenzene

Concen: 20.614 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

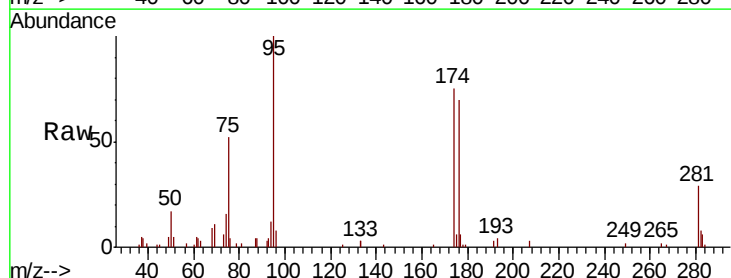
Tgt Ion: 95 Resp: 9997

Ion Ratio Lower Upper

95 100

174 74.5 0.0 152.2

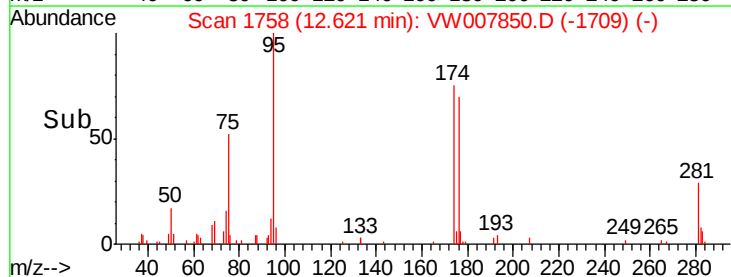
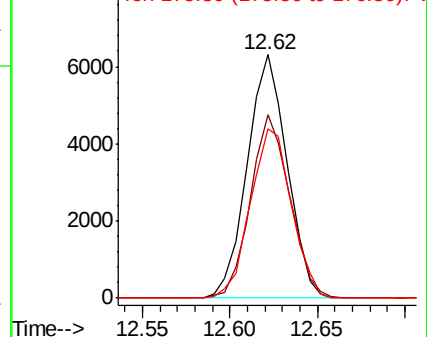
176 71.9 0.0 146.8

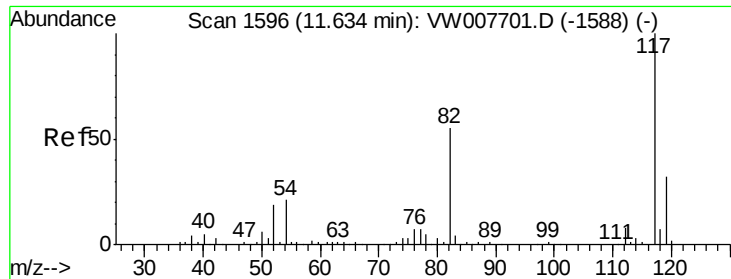


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

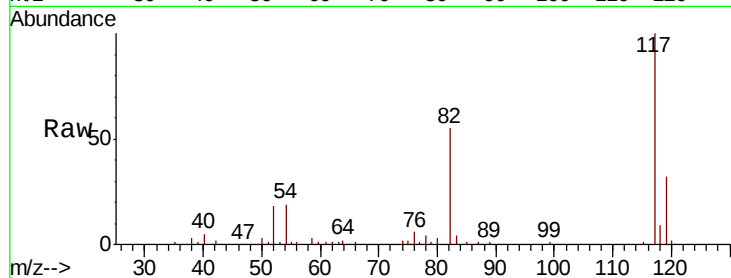




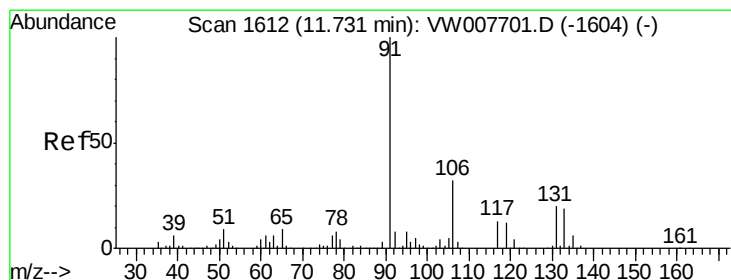
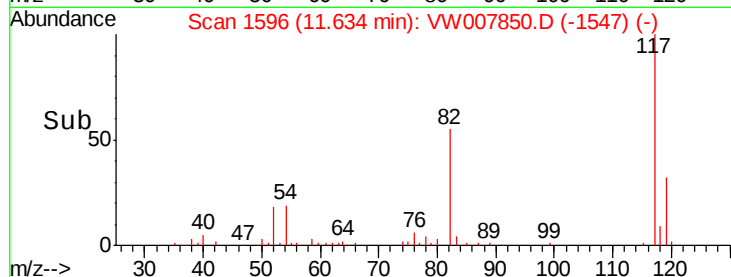
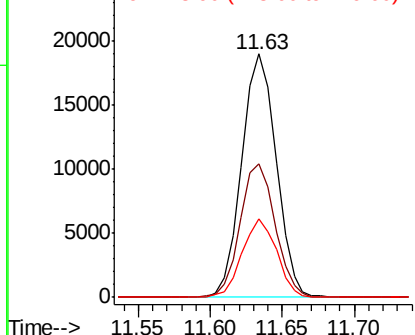
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007850.D  
Acq: 22 Dec 2018 18:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS010-0006-01RE

Tgt Ion: 117 Resp: 31582  
Ion Ratio Lower Upper  
117 100  
82 54.9 44.3 66.5  
119 32.3 25.7 38.5

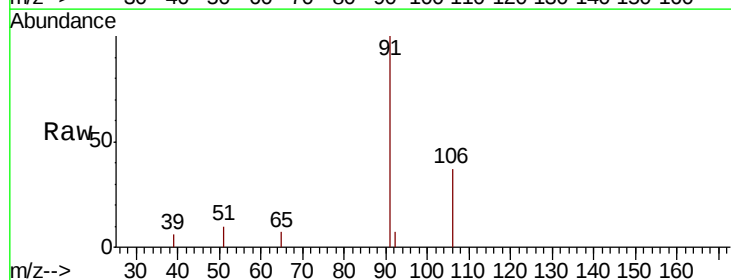


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

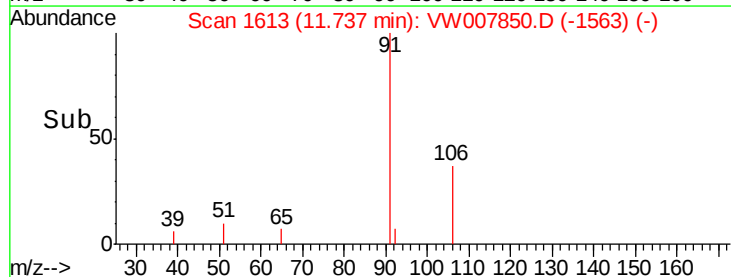
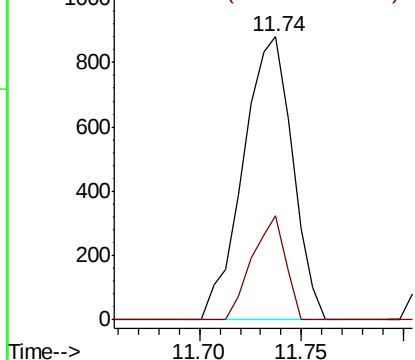


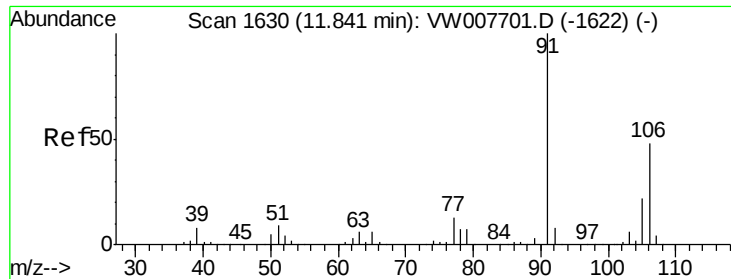
#67  
Ethyl Benzene  
Concen: 1.265 ug/l  
RT: 11.74 min Scan# 1613  
Delta R.T. 0.01 min  
Lab File: VW007850.D  
Acq: 22 Dec 2018 18:28

Tgt Ion: 91 Resp: 1484  
Ion Ratio Lower Upper  
91 100  
106 36.7 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 106.00 (105.70 to 106.70): V

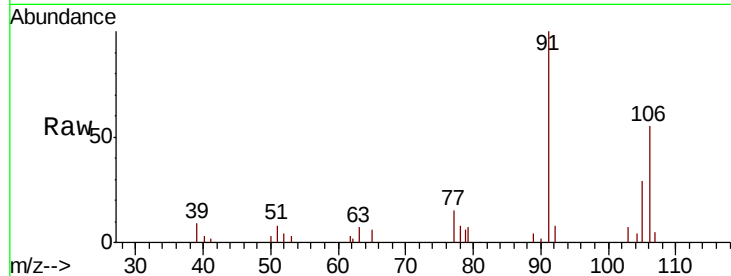




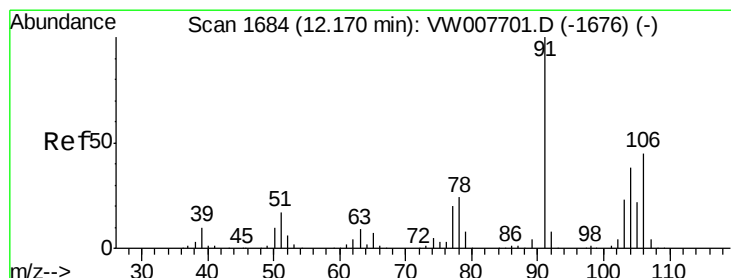
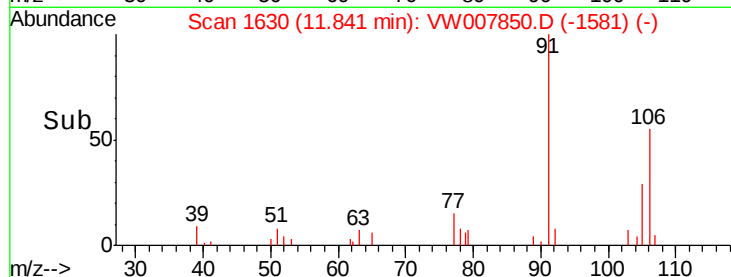
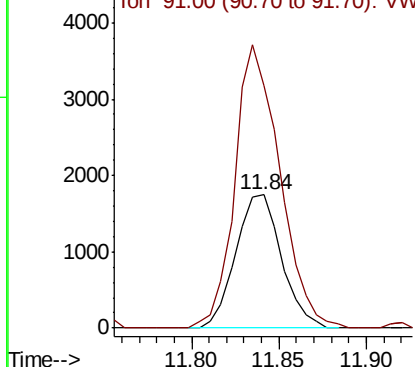
#68  
m/p-Xylenes  
Concen: 6.997 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW007850.D  
Acq: 22 Dec 2018 18:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS010-0006-01RE

Tgt Ion:106 Resp: 3184  
Ion Ratio Lower Upper  
106 100  
91 208.5 165.2 247.8

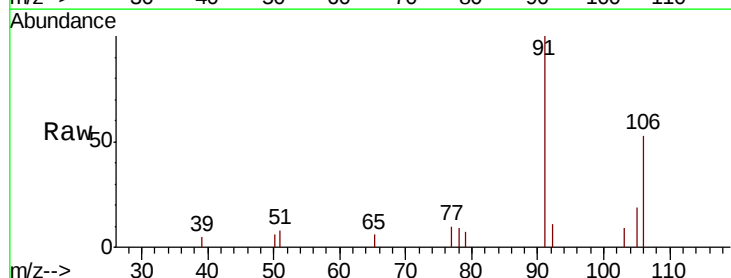


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

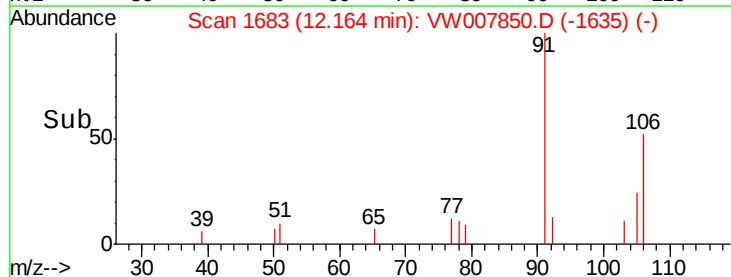
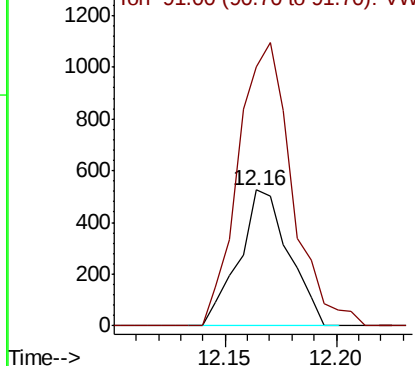


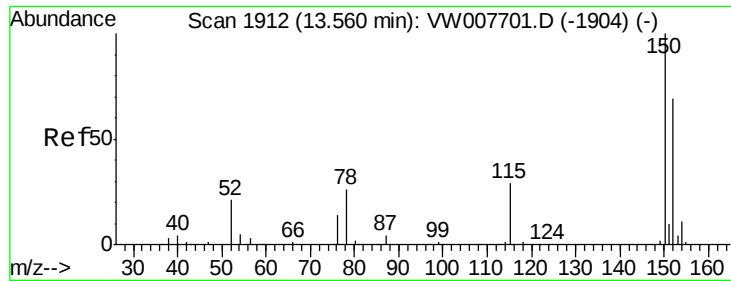
#69  
o-Xylene  
Concen: 1.918 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW007850.D  
Acq: 22 Dec 2018 18:28

Tgt Ion:106 Resp: 818  
Ion Ratio Lower Upper  
106 100  
91 225.7 110.5 331.4



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS010-0006-01RE

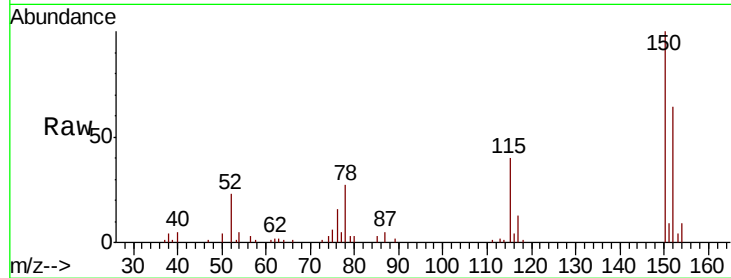
Tgt Ion: 152 Resp: 6593

Ion Ratio Lower Upper

152 100

115 62.5 31.8 95.4

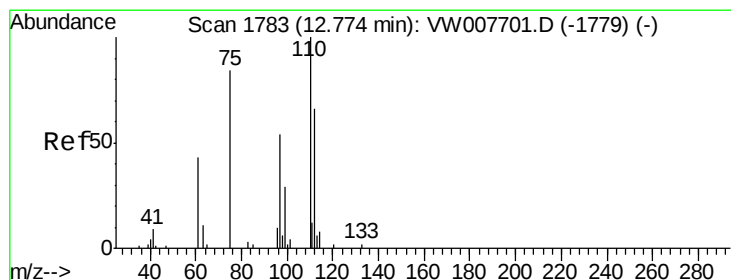
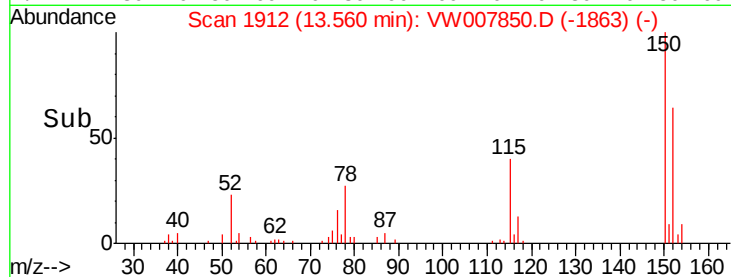
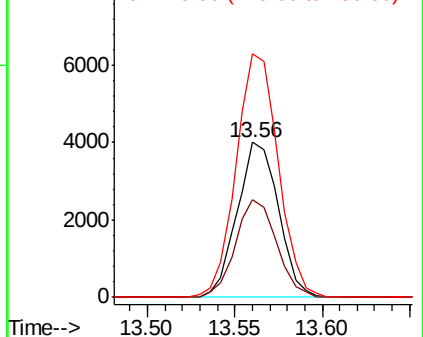
150 159.5 0.0 350.8



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: 98.238 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007850.D

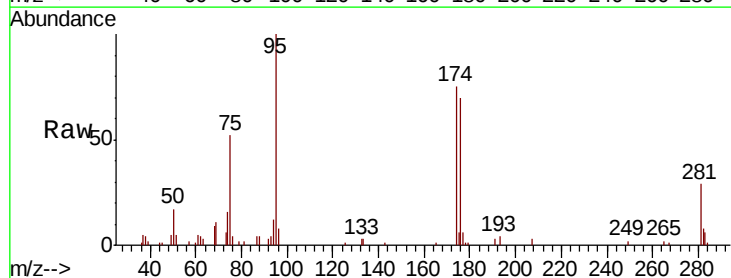
Acq: 22 Dec 2018 18:28

Tgt Ion: 75 Resp: 5006

Ion Ratio Lower Upper

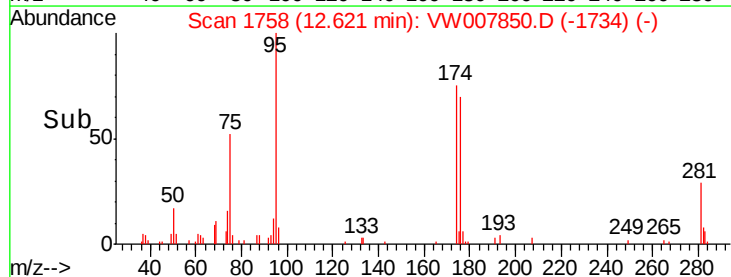
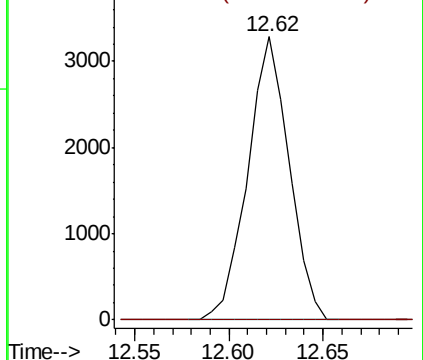
75 100

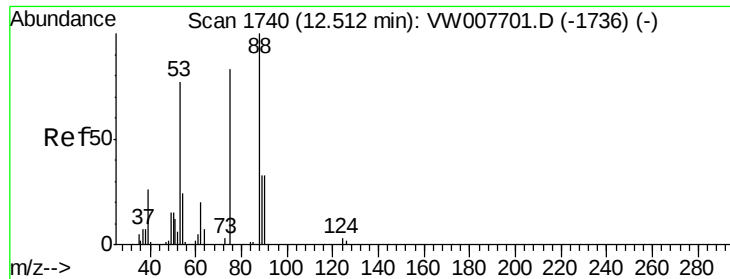
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 206.209 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007850.D

Acq: 22 Dec 2018 18:28

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS010-0006-01RE

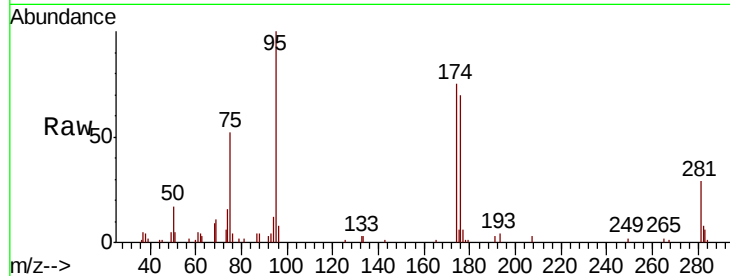
Tgt Ion: 75 Resp: 5006

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

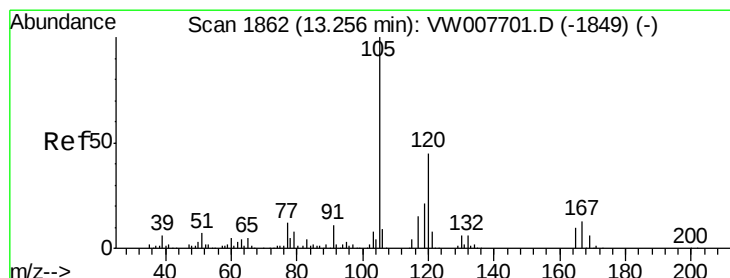
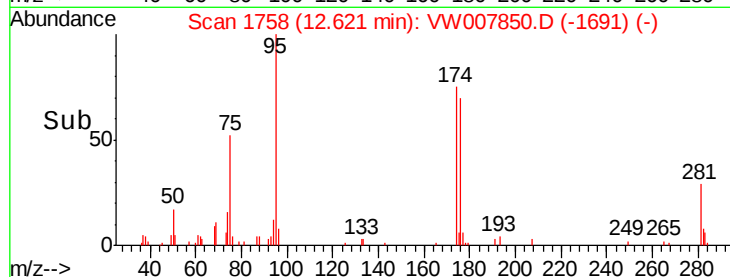
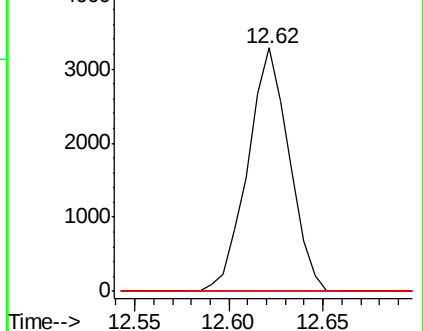
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 1.381 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW007850.D

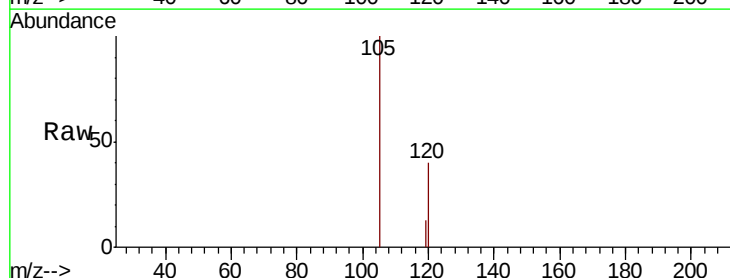
Acq: 22 Dec 2018 18:28

Tgt Ion: 105 Resp: 599

Ion Ratio Lower Upper

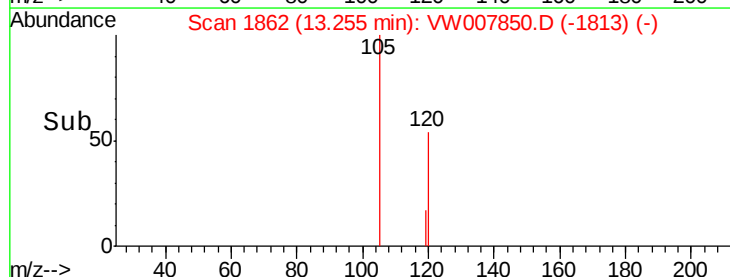
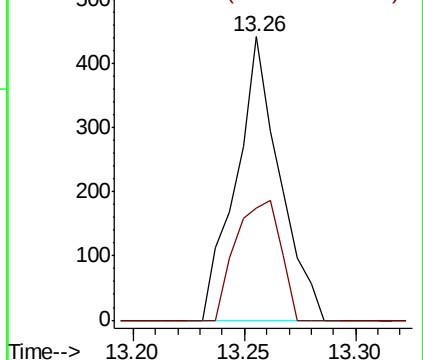
105 100

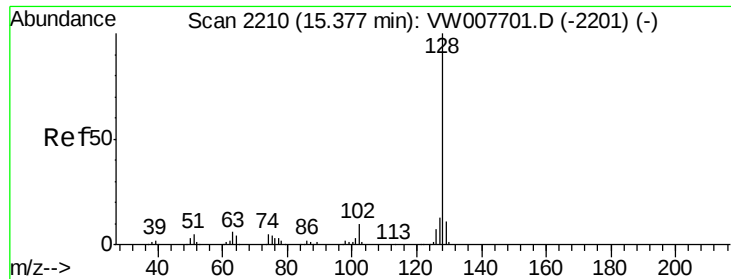
120 43.7 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

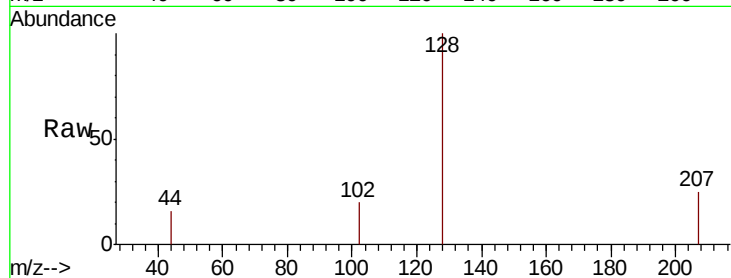




#95  
Naphthalene  
Concen: 2.479 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW007850.D  
Acq: 22 Dec 2018 18:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS010-0006-01RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.7  | 16.1# |
| 129     | 0.0   | 8.8   | 13.2# |



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

