

Data File : VW008727.D  
Acq On : 18 Feb 2019 14:38  
Operator : SY/VA  
Sample : K1515-02RE  
Misc : 6.47G/5ML/MSVOA\_W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
TS-2

Quant Time: Feb 19 03:30:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W021319S.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 14 04:06:50 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 380172   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 569889   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 510842   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 255200   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 211105   | 53.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.82% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 182879   | 51.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.36% |      |
| 50) Toluene-d8            | 10.32  | 98  | 684087   | 50.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.30% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 240360   | 46.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.56%  |      |

Target Compounds

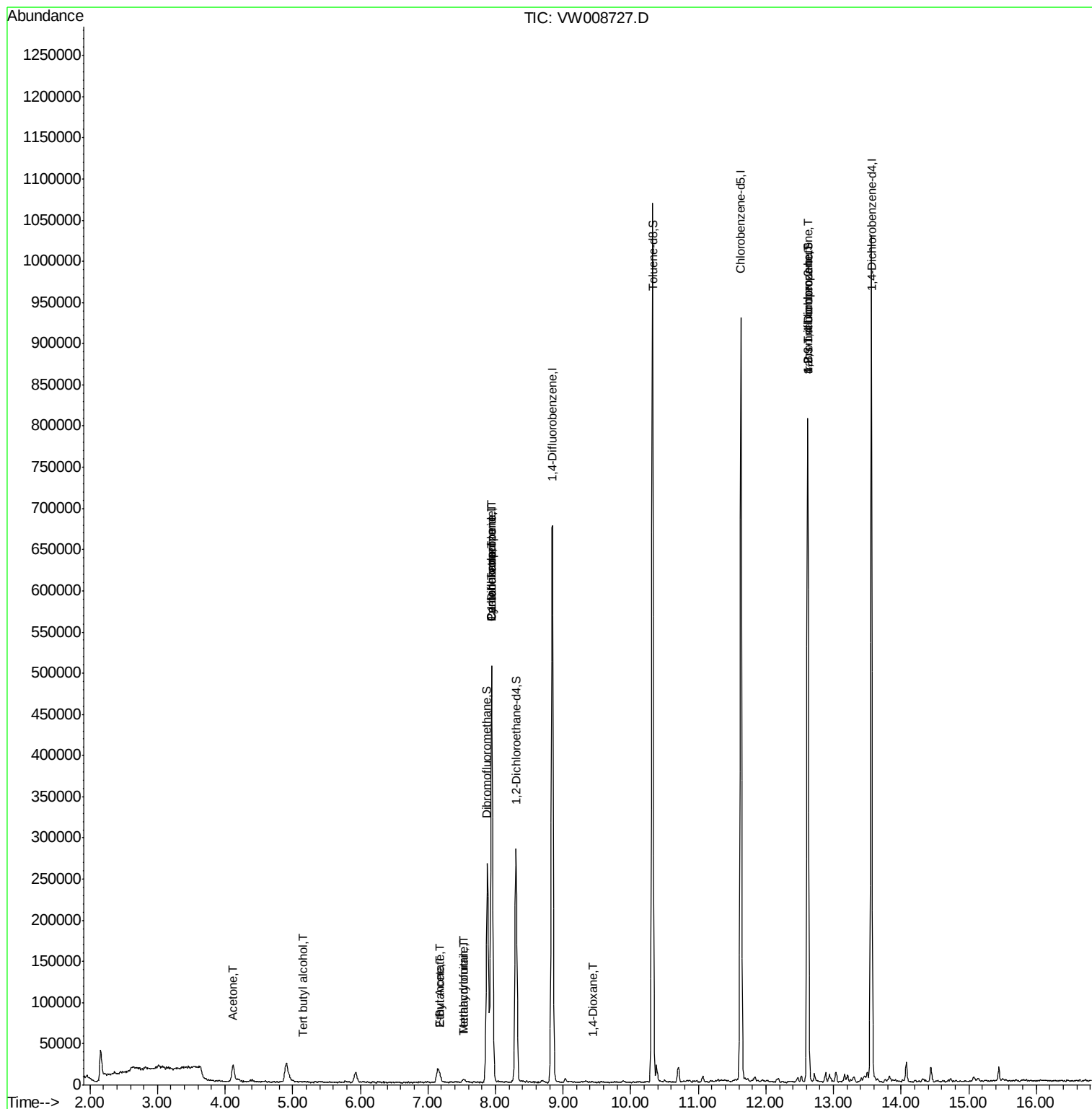
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.15  | 59  | 564    | 1.784     | ug/l # | 72     |
| 16) Acetone                    | 4.12  | 43  | 36552  | 40.641    | ug/l   | 92     |
| 20) Methylene Chloride         | 4.90  | 84  | 20235  | Below Cal |        | 91     |
| 25) 2-Butanone                 | 7.18  | 43  | 11119  | 8.755     | ug/l # | 88     |
| 29) Tetrahydrofuran            | 7.54  | 42  | 4194   | 5.010     | ug/l # | 85     |
| 31) Cyclohexane                | 7.94  | 56  | 8412   | 1.164     | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 7.94  | 75  | 26976  | 4.712     | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.18  | 43  | 10605  | 3.840     | ug/l # | 72     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 36147  | 6.349     | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.52  | 41  | 2341   | 1.506     | ug/l # | 44     |
| 49) 1,4-Dioxane                | 9.43  | 88  | 36     | 1.058     | ug/l # | 22     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 124777 | 49.515    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 124777 | 106.189   | ug/l # | 6      |

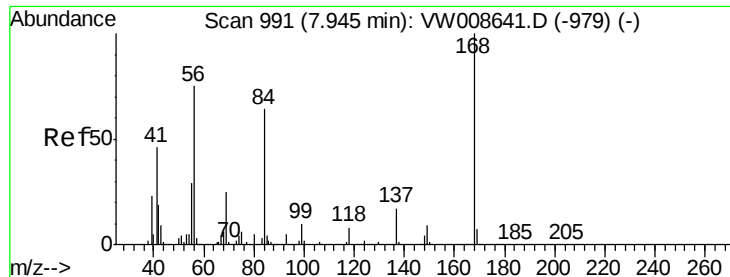
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampled :

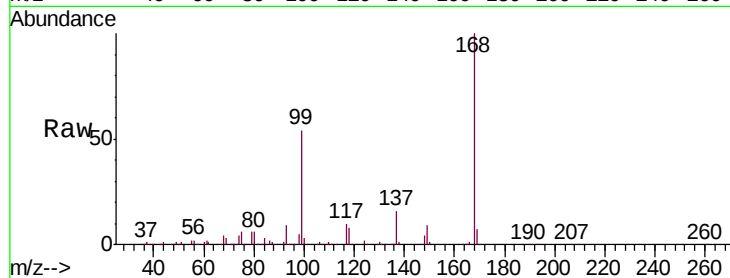
TS-2

Tgt Ion:168 Resp: 380172

Ion Ratio Lower Upper

168 100

99 54.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

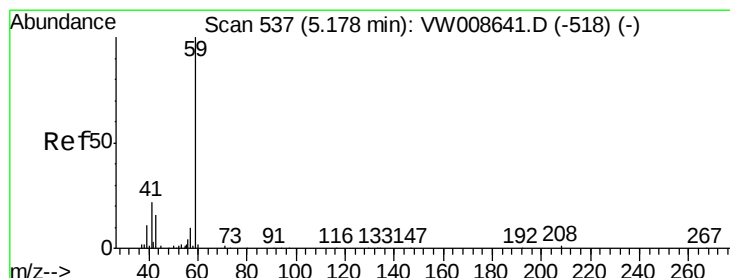
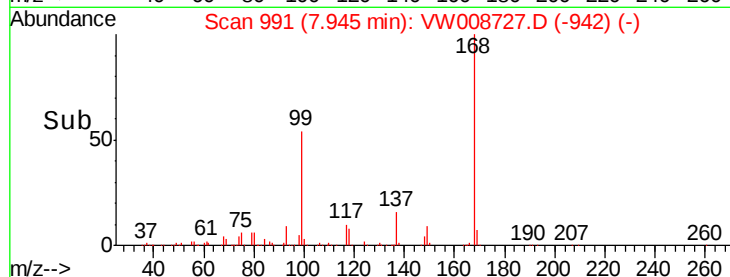
100000

50000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 1.784 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.02 min

Lab File: VW008727.D

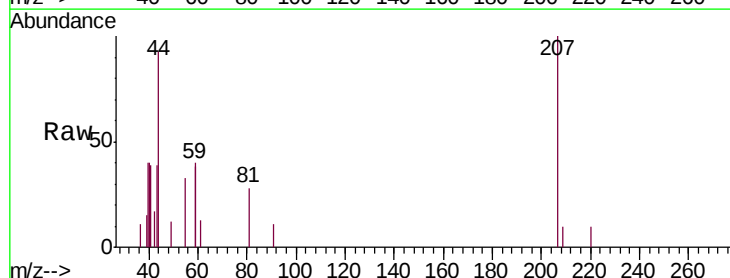
Acq: 18 Feb 2019 14:38

Tgt Ion: 59 Resp: 564

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

5.15

500

400

300

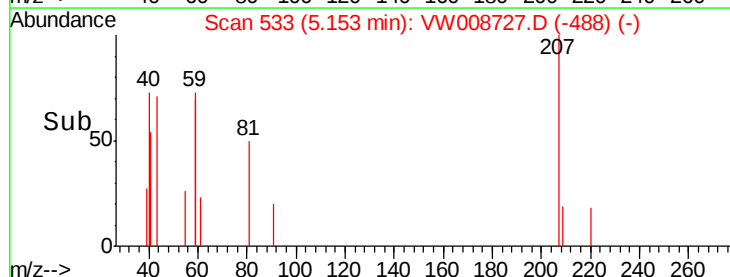
200

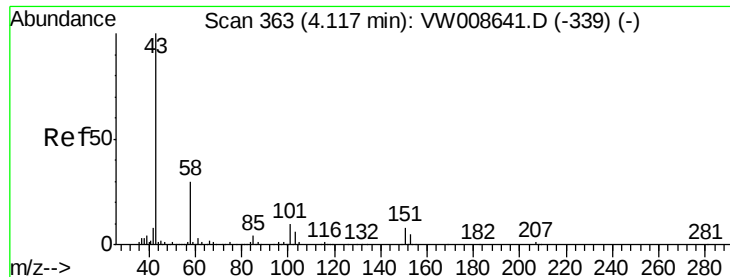
100

0

5.10 5.15 5.20

Time-->





#16

Acetone

Concen: 40.641 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampled :

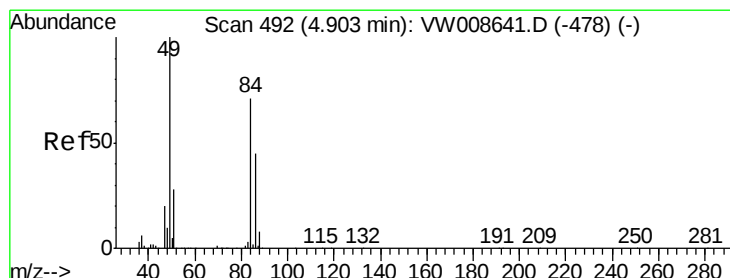
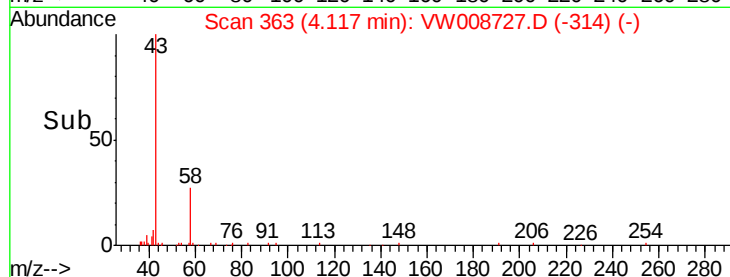
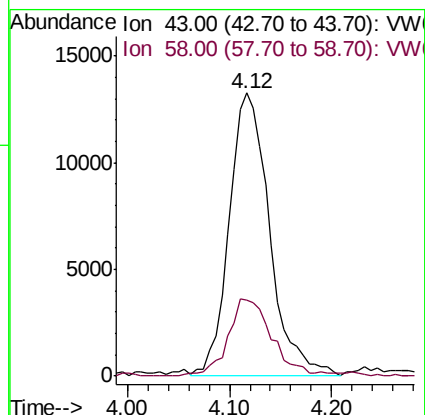
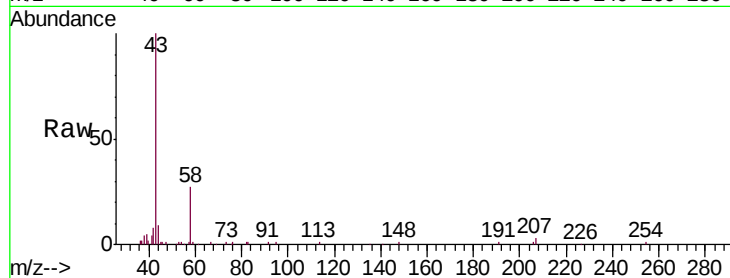
TS-2

Tgt Ion: 43 Resp: 36552

Ion Ratio Lower Upper

43 100

58 25.9 24.1 36.1



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. 0.00 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Tgt Ion: 84 Resp: 20235

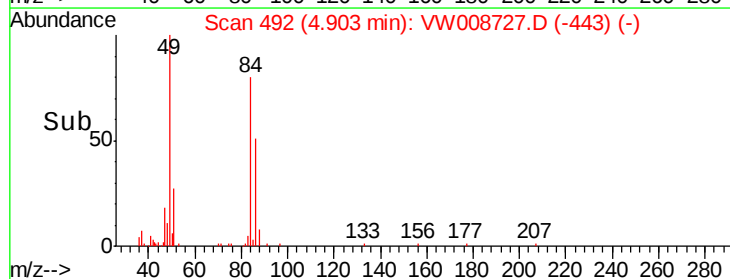
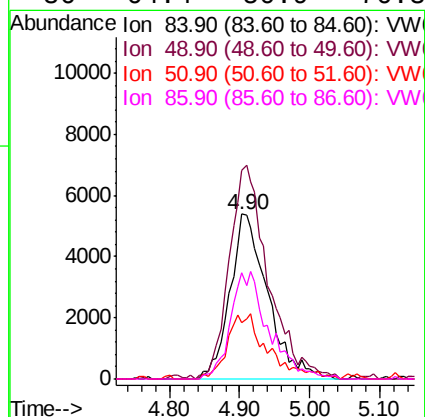
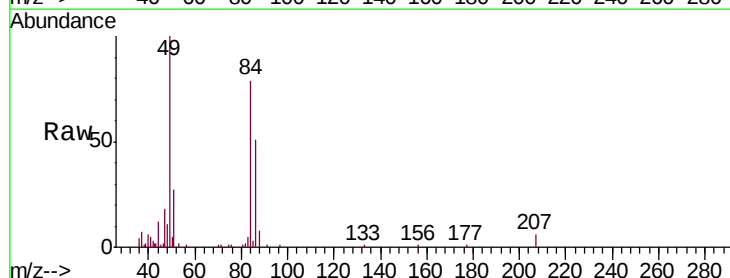
Ion Ratio Lower Upper

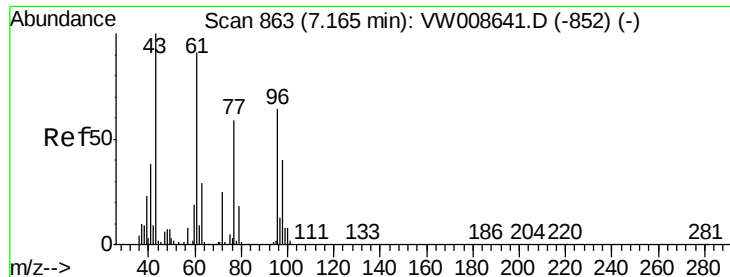
84 100

49 126.9 113.3 169.9

51 34.5 32.1 48.1

86 64.4 50.9 76.3





#25

2-Butanone

Concen: 8.755 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampled :

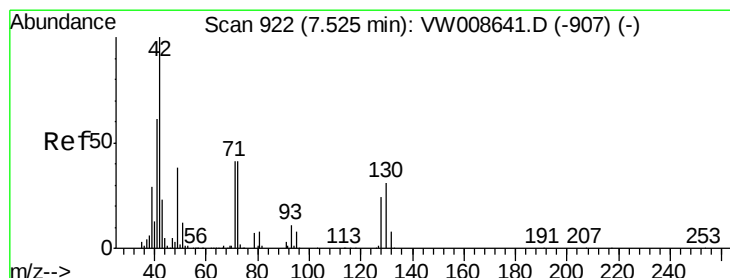
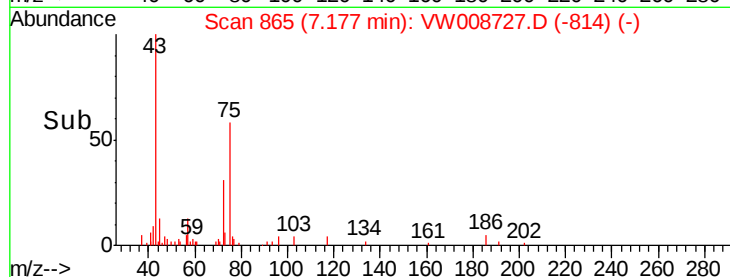
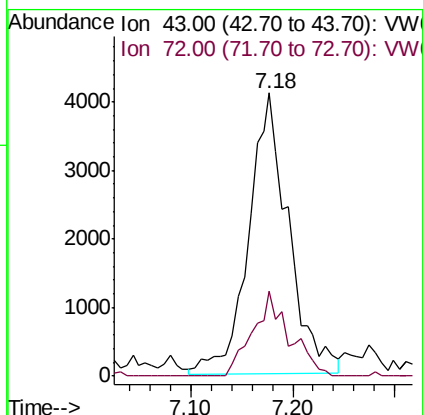
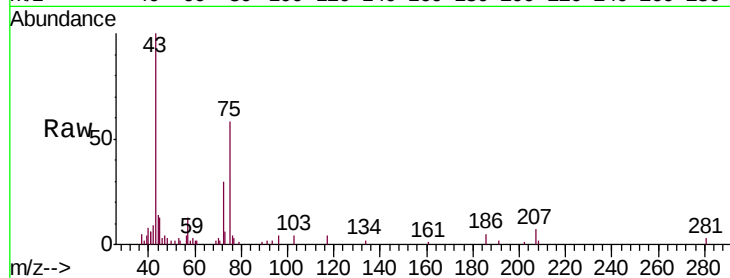
TS-2

Tgt Ion: 43 Resp: 11119

Ion Ratio Lower Upper

43 100

72 30.7 19.7 29.5#



#29

Tetrahydrofuran

Concen: 5.010 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

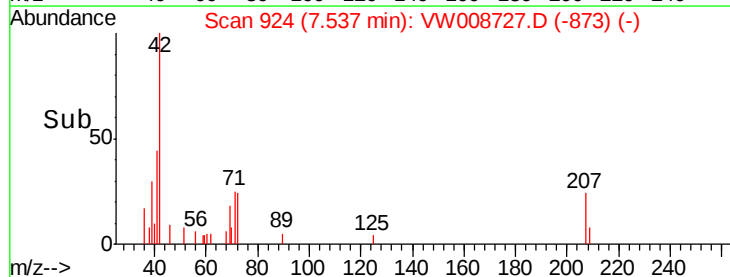
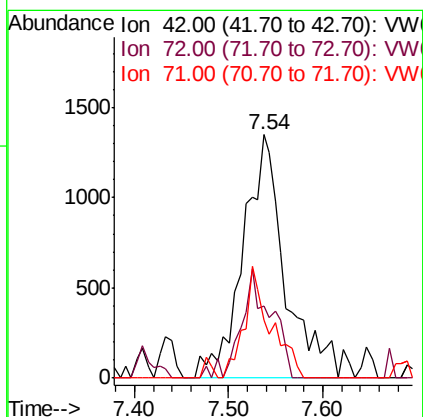
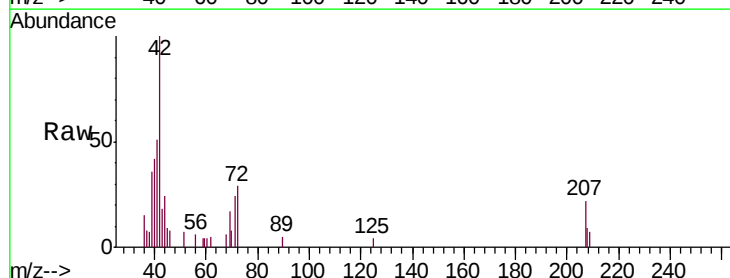
Tgt Ion: 42 Resp: 4194

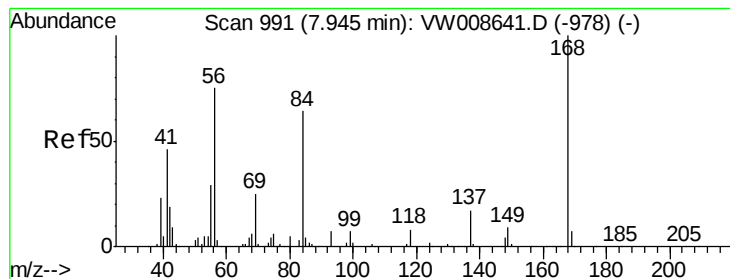
Ion Ratio Lower Upper

42 100

72 32.1 32.2 48.2#

71 28.9 31.0 46.6#





#31

Cyclohexane

Concen: 1.164 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampleId :

TS-2

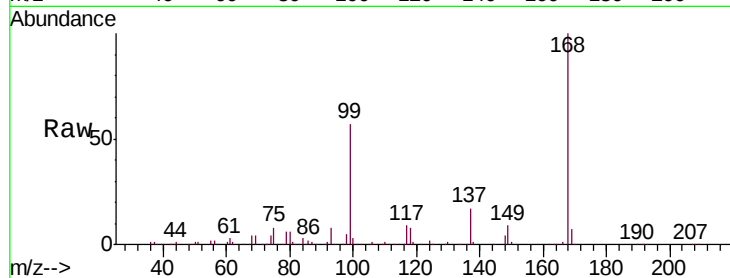
Tgt Ion: 56 Resp: 8412

Ion Ratio Lower Upper

56 100

69 159.3 26.4 39.6#

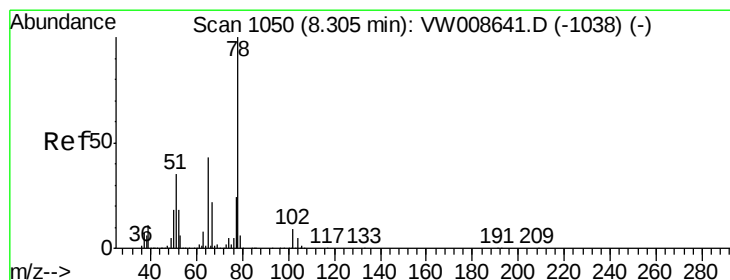
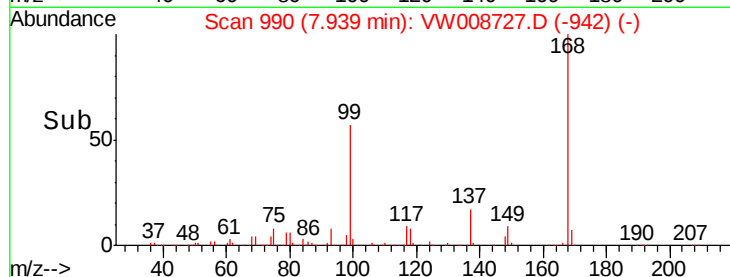
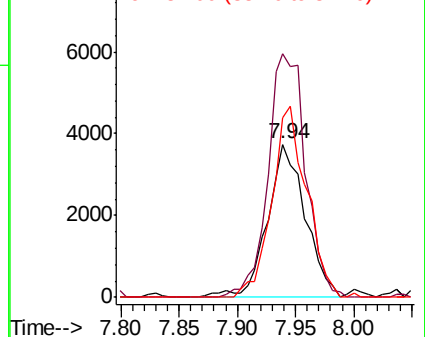
84 117.2 67.4 101.2#



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: 53.412 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008727.D

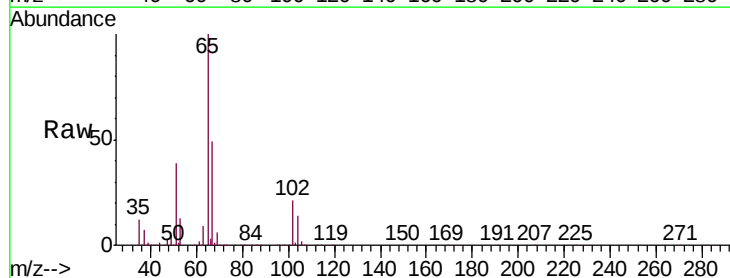
Acq: 18 Feb 2019 14:38

Tgt Ion: 65 Resp: 211105

Ion Ratio Lower Upper

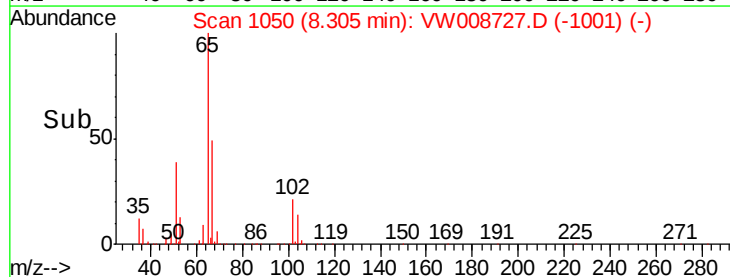
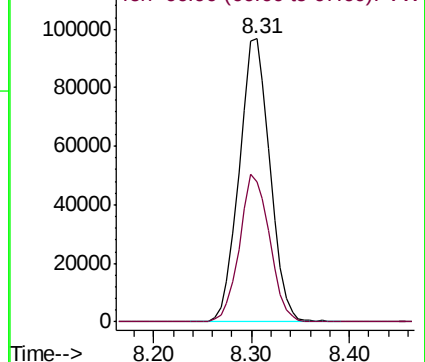
65 100

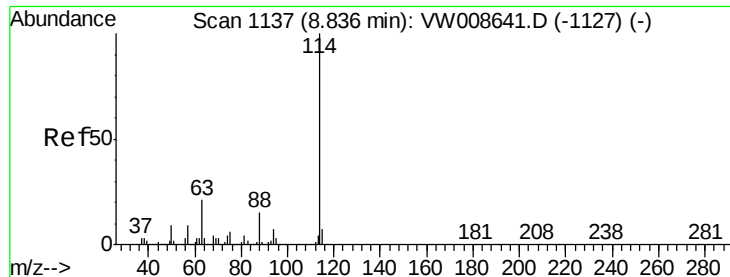
67 51.1 0.0 102.0



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. 0.01 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampleId :

TS-2

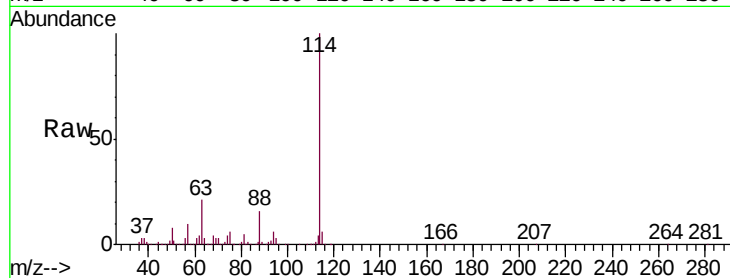
Tgt Ion:114 Resp: 569889

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.2

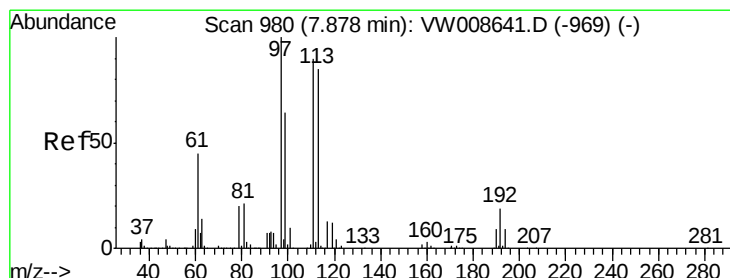
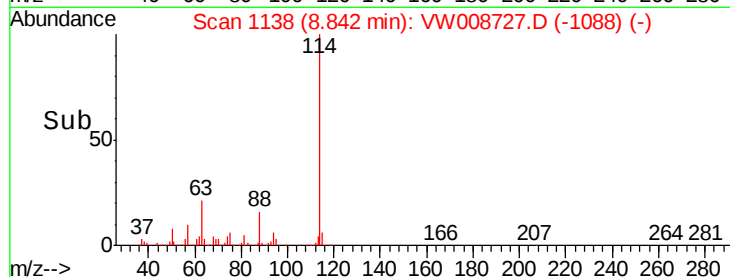
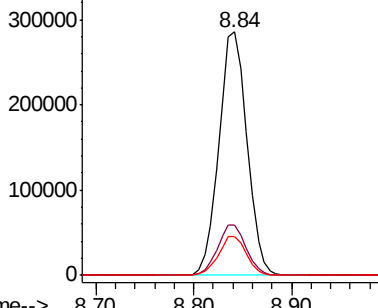
88 15.7 0.0 29.6



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: 51.680 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

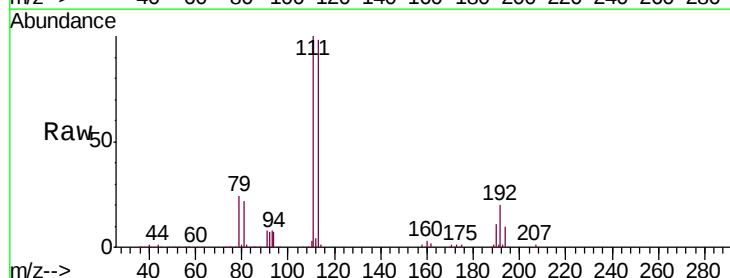
Tgt Ion:113 Resp: 182879

Ion Ratio Lower Upper

113 100

111 101.9 84.0 126.0

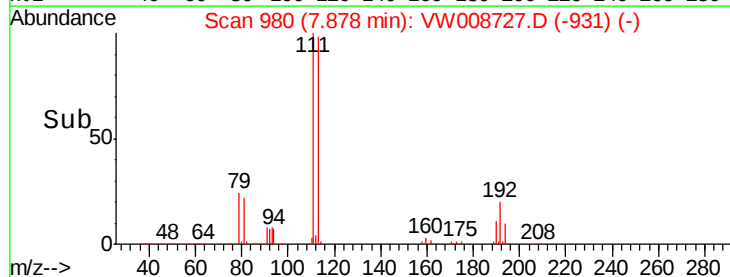
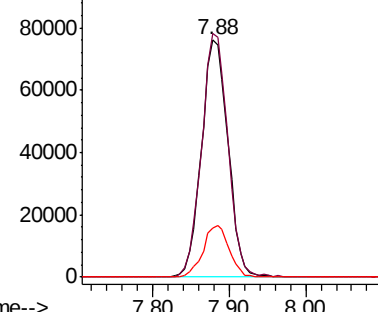
192 21.3 17.4 26.2

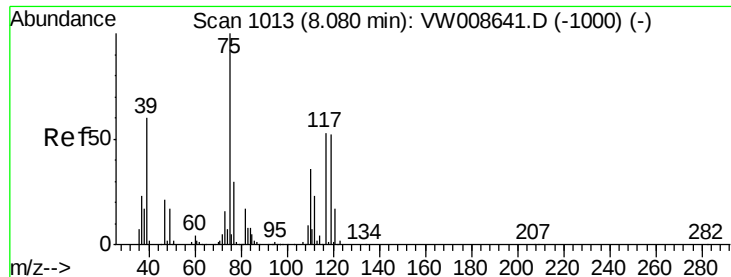


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.712 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

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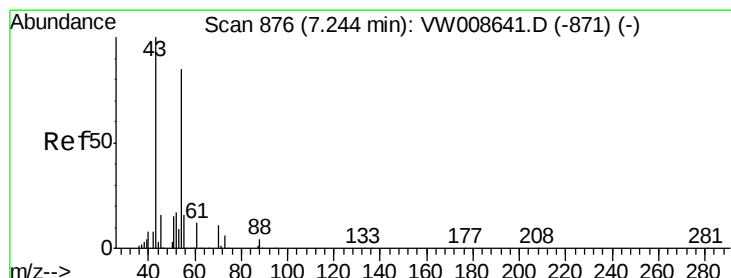
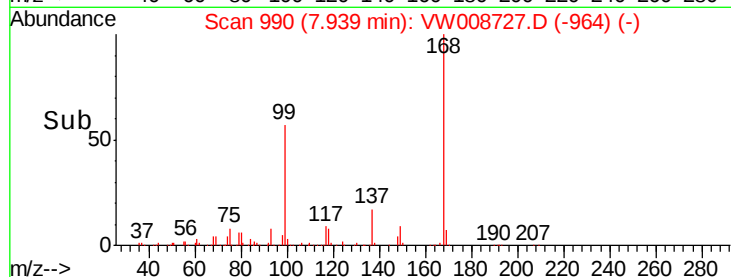
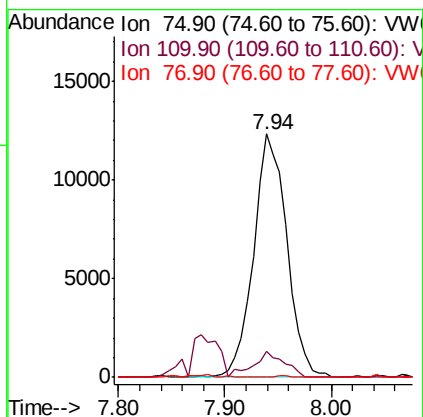
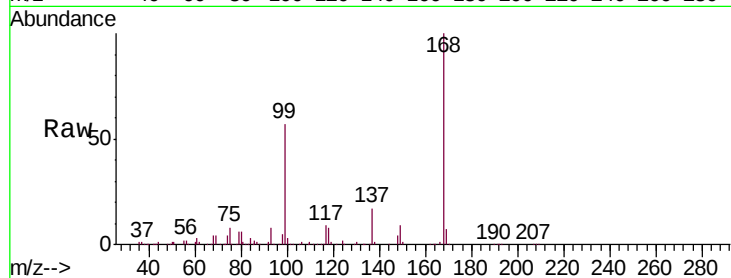
Tgt Ion: 75 Resp: 26976

Ion Ratio Lower Upper

75 100

110 9.0 17.8 53.3#

77 0.2 24.7 37.1#



#37

Ethyl Acetate

Concen: 3.840 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.07 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

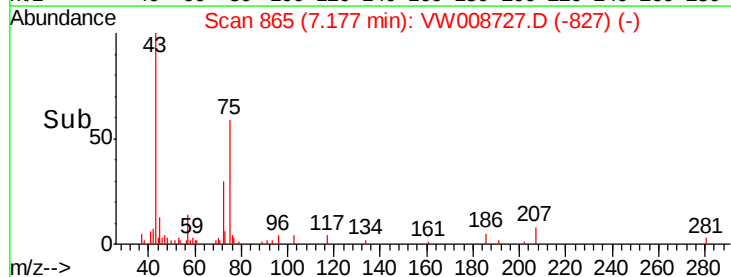
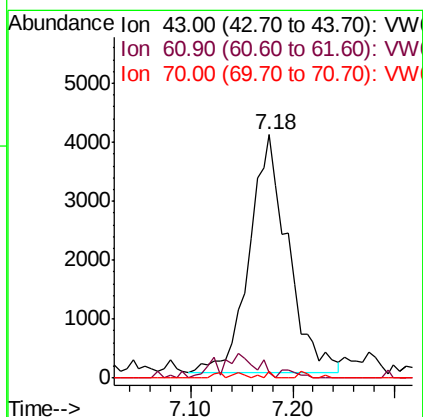
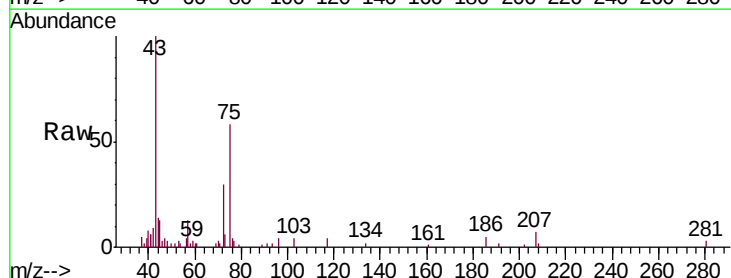
Tgt Ion: 43 Resp: 10605

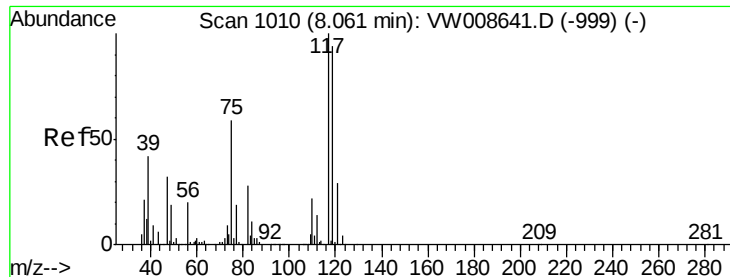
Ion Ratio Lower Upper

43 100

61 1.6 10.5 15.7#

70 0.6 8.1 12.1#

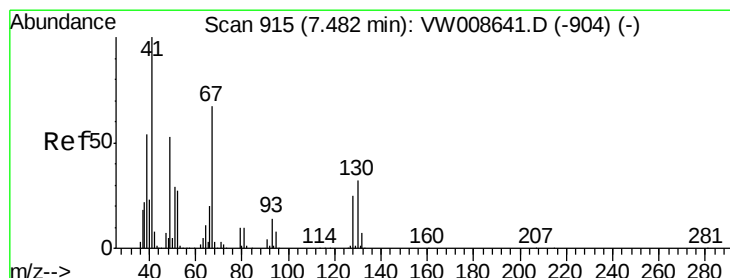
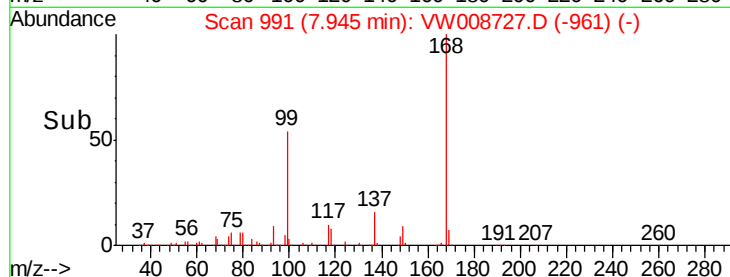
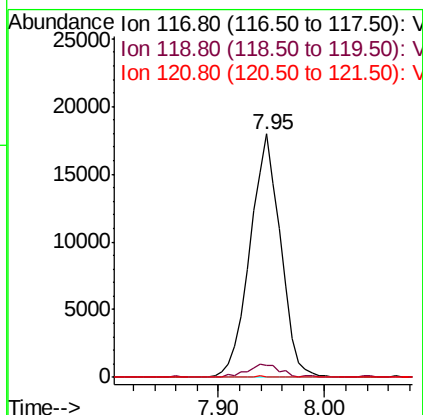
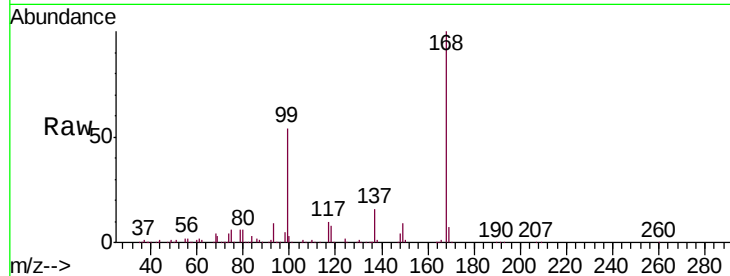




#38  
Carbon Tetrachloride  
Concen: 6.349 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW008727.D  
Acq: 18 Feb 2019 14:38

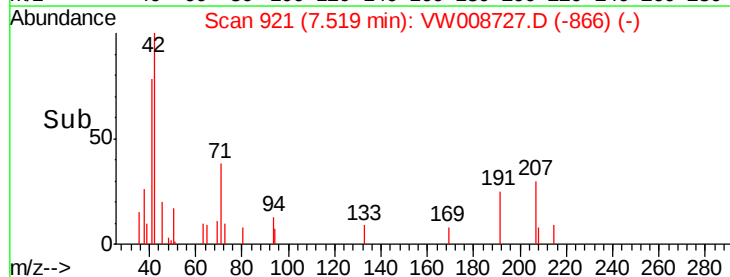
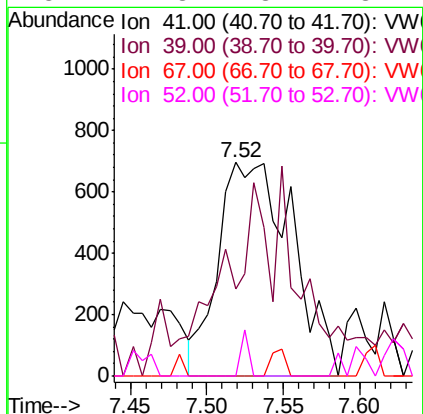
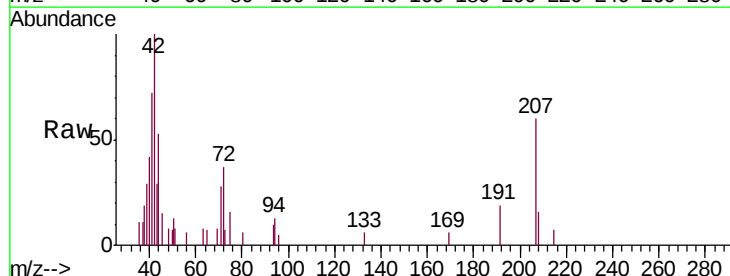
Instrument :  
MSVOA\_W  
ClientSampled :  
TS-2

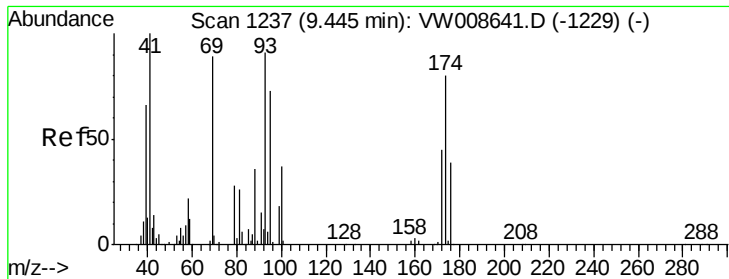
Tgt Ion: 117 Resp: 36147  
Ion Ratio Lower Upper  
117 100  
119 4.9 75.1 112.7#  
121 0.0 23.5 35.3#



#41  
Methacrylonitrile  
Concen: 1.506 ug/l  
RT: 7.52 min Scan# 921  
Delta R.T. 0.04 min  
Lab File: VW008727.D  
Acq: 18 Feb 2019 14:38

Tgt Ion: 41 Resp: 2341  
Ion Ratio Lower Upper  
41 100  
39 32.1 39.7 59.5#  
67 0.0 52.5 78.7#  
52 2.3 23.1 34.7#

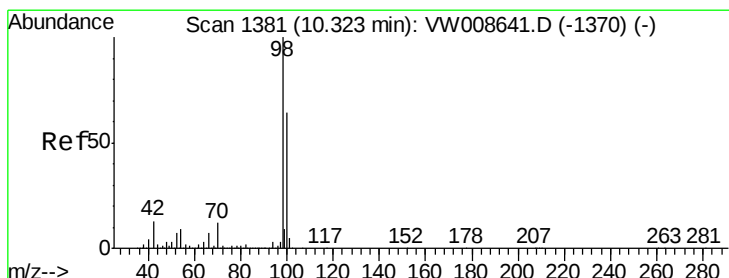
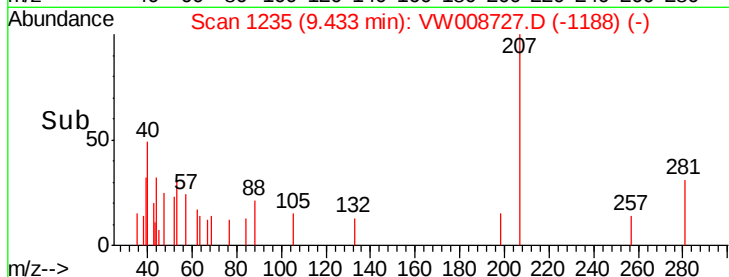
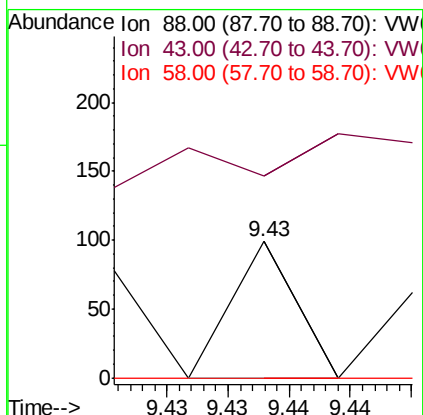
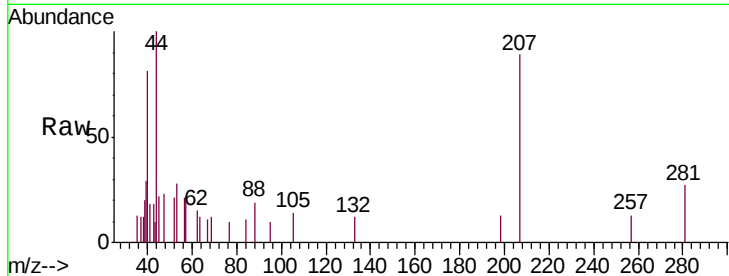




#49  
1,4-Dioxane  
Concen: 1.058 ug/l  
RT: 9.43 min Scan# 1235  
Delta R.T. -0.01 min  
Lab File: VW008727.D  
Acq: 18 Feb 2019 14:38

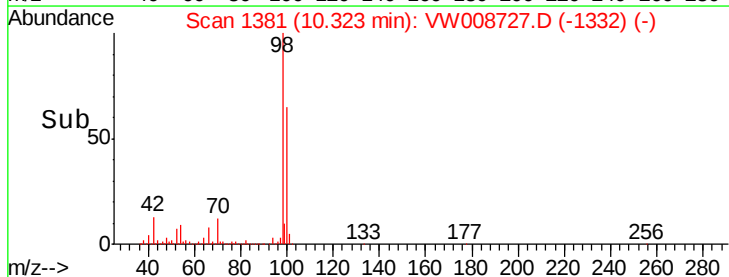
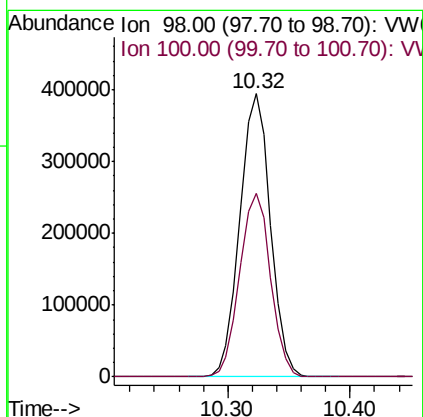
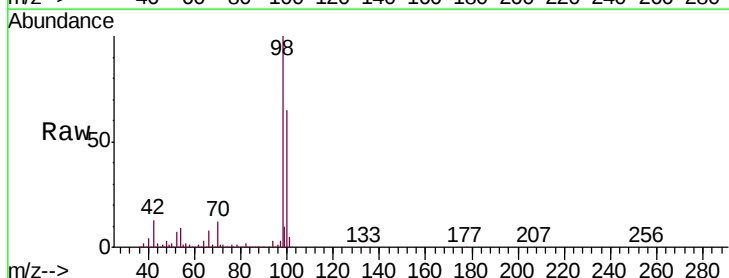
Instrument :  
MSVOA\_W  
ClientSampled :  
TS-2

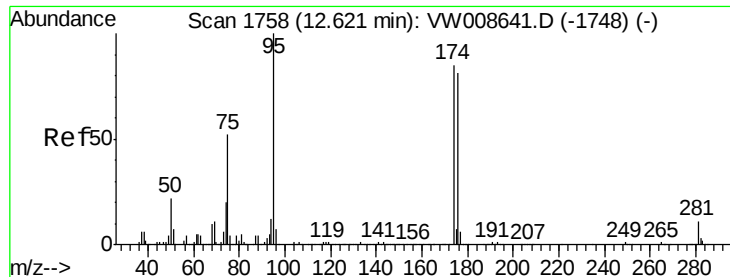
Tgt Ion: 88 Resp: 36  
Ion Ratio Lower Upper  
88 100  
43 0.0 31.0 46.6#  
58 0.0 57.0 85.6#



#50  
Toluene-d8  
Concen: 50.149 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW008727.D  
Acq: 18 Feb 2019 14:38

Tgt Ion: 98 Resp: 684087  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.2 78.4





#62

4-Bromofluorobenzene

Concen: 46.780 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampleId :

TS-2

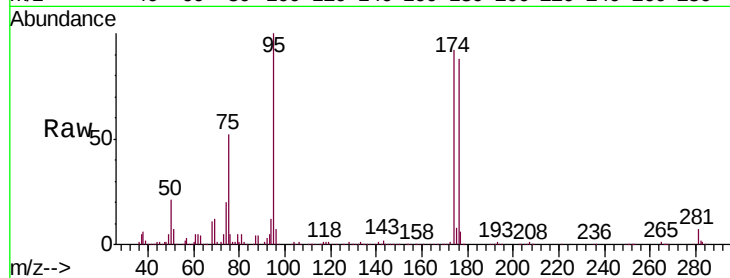
Tgt Ion: 95 Resp: 240360

Ion Ratio Lower Upper

95 100

174 86.6 0.0 163.2

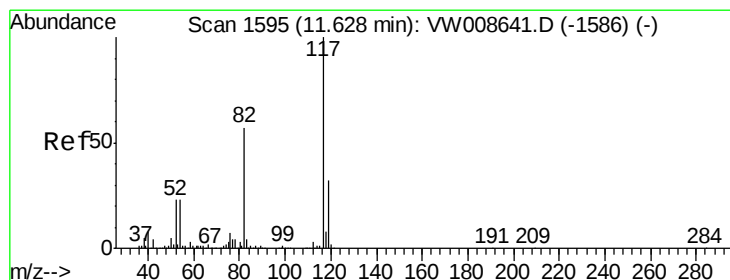
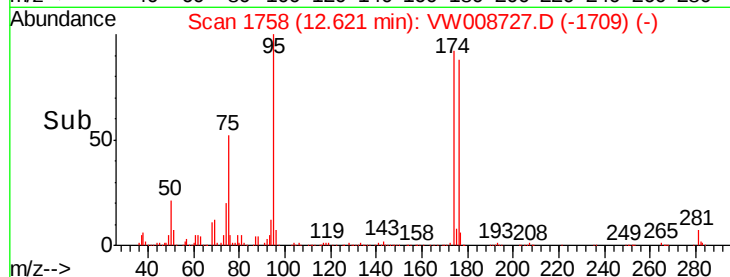
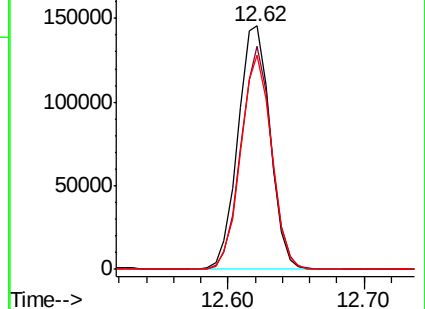
176 84.5 0.0 158.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

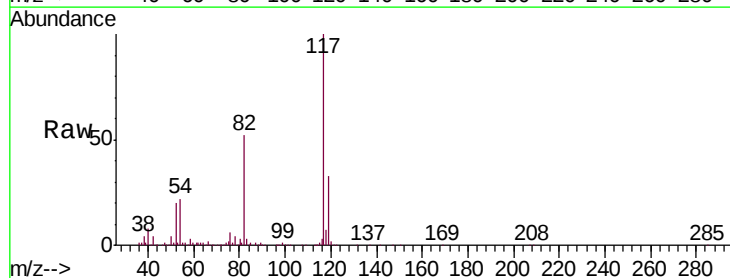
Tgt Ion: 117 Resp: 510842

Ion Ratio Lower Upper

117 100

82 51.9 45.6 68.4

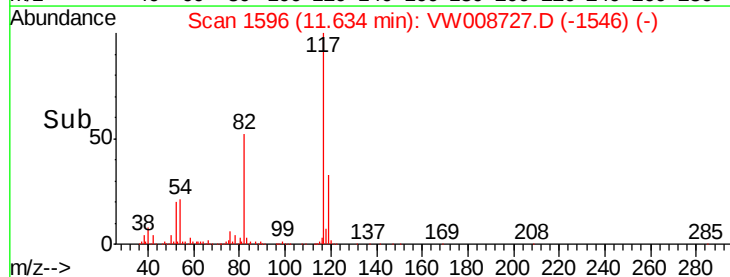
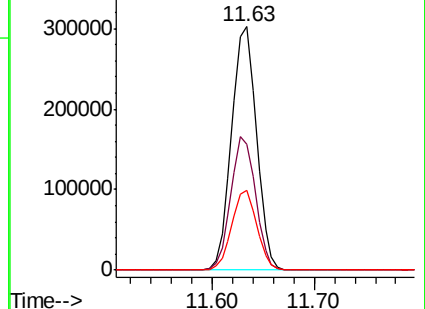
119 32.8 25.7 38.5

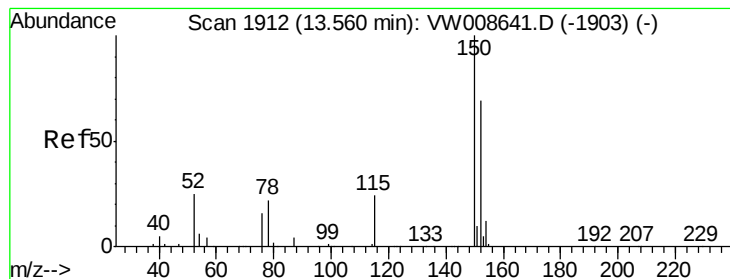


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): 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: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampleId :

TS-2

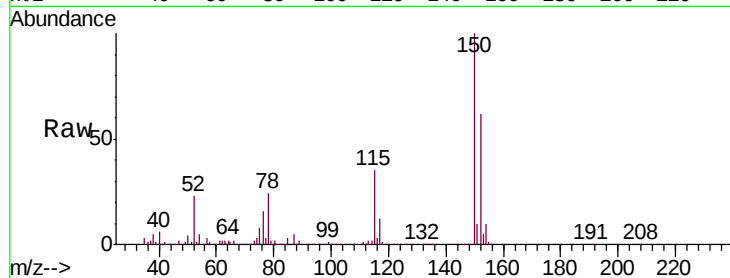
Tgt Ion:152 Resp: 255200

Ion Ratio Lower Upper

152 100

115 56.8 29.3 87.8

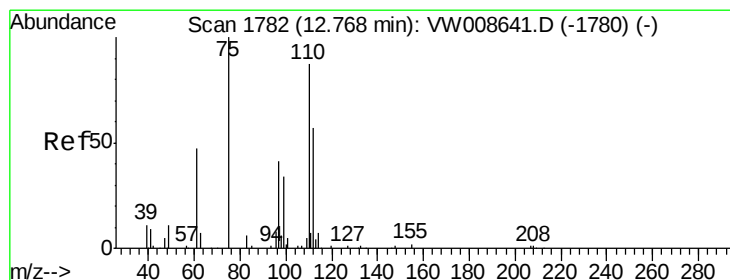
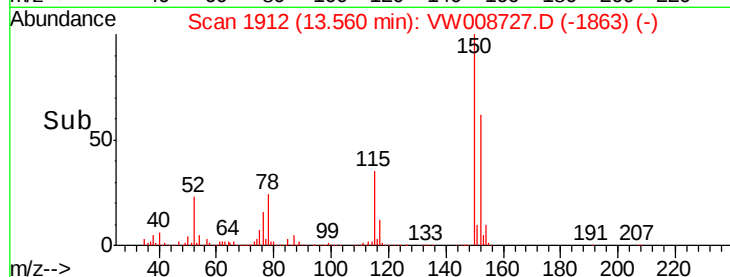
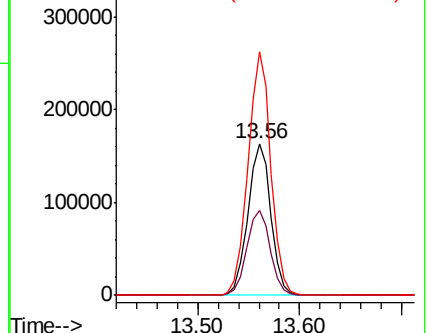
150 159.2 0.0 352.8



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: 49.515 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008727.D

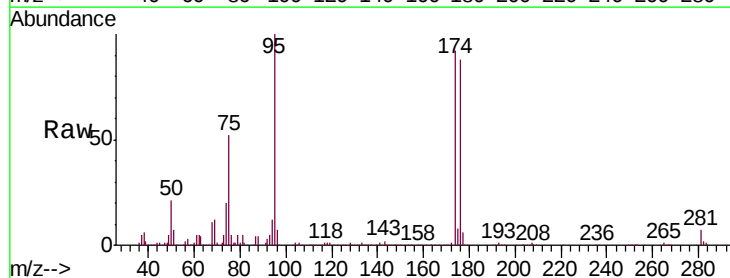
Acq: 18 Feb 2019 14:38

Tgt Ion: 75 Resp: 124777

Ion Ratio Lower Upper

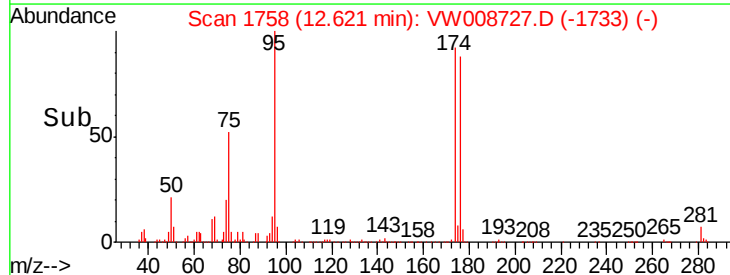
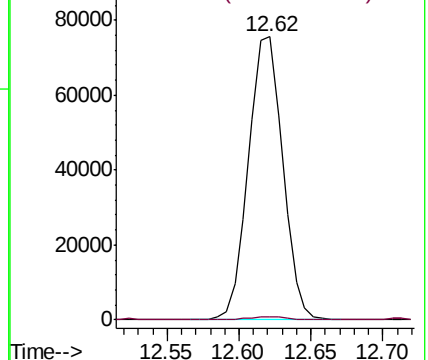
75 100

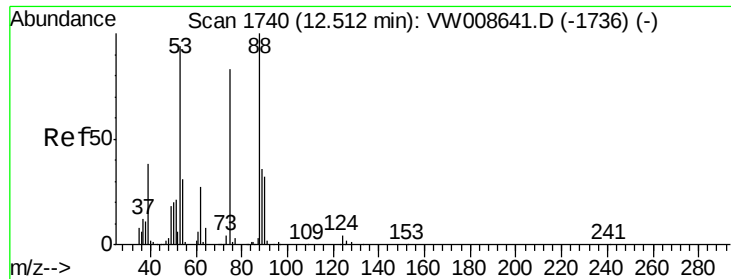
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 106.189 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008727.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA\_W

ClientSampleId :

TS-2

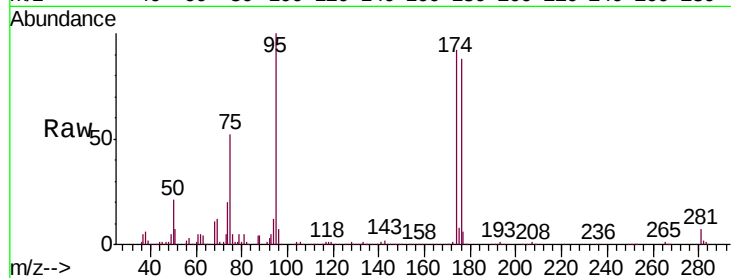
Tgt Ion: 75 Resp: 124777

Ion Ratio Lower Upper

75 100

53 0.2 87.4 131.0#

89 0.0 37.0 55.4#



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

