

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090618\  
 Data File : VW005163.D  
 Acq On : 06 Sep 2018 14:59  
 Operator : SY/AP  
 Sample : J4720-02  
 Misc : 5.03G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BZTRANS-2

Quant Time: Sep 06 16:37:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 01 03:35:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 358536   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 534785   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 328765   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 96208    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 137102   | 46.13 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.26% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 101505   | 32.84 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 65.68% |      |
| 50) Toluene-d8            | 10.33  | 98  | 244679   | 17.18 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 34.36% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 79030    | 15.74 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 31.48% |      |

## Target Compounds

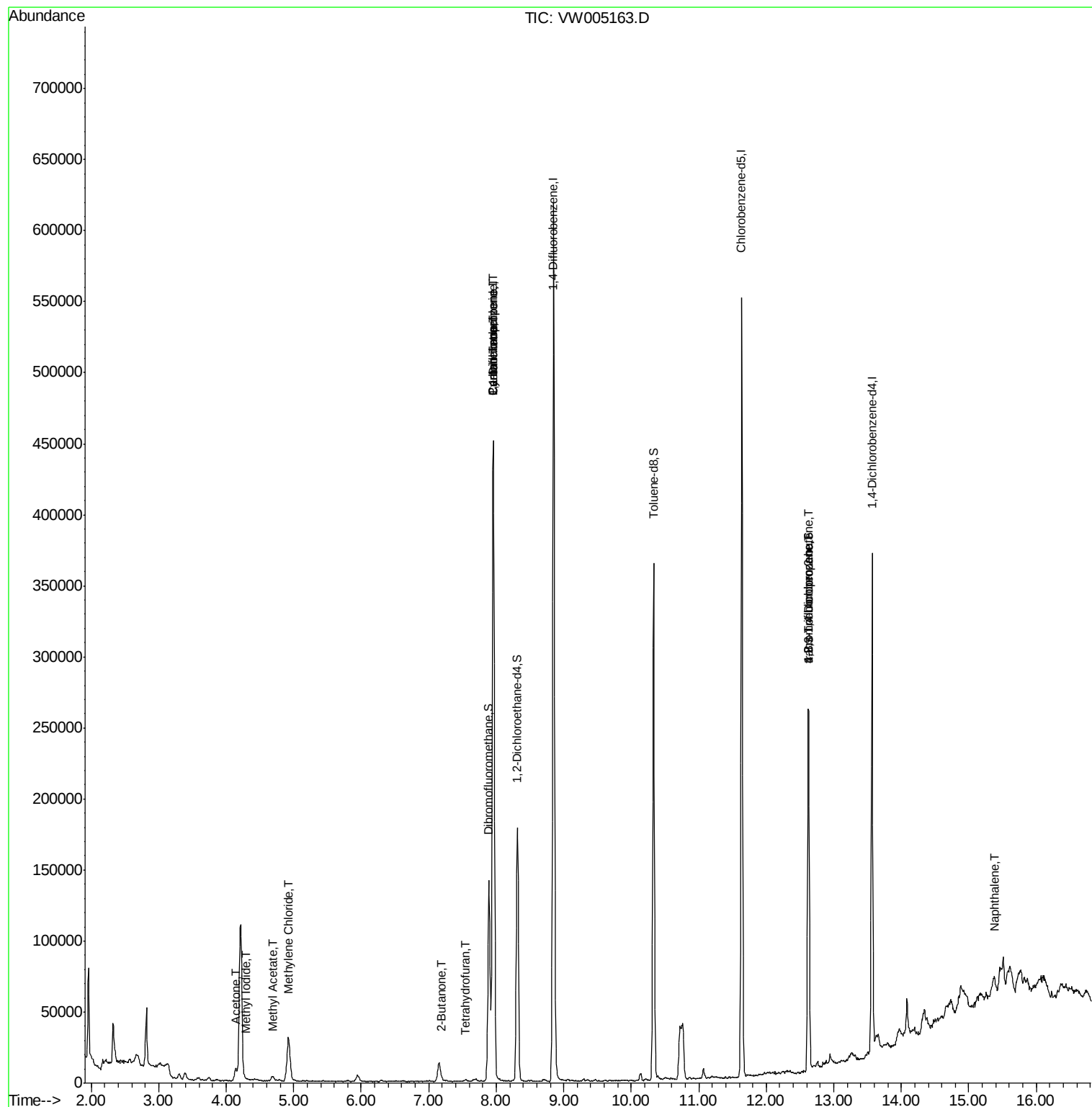
|                                |       |     |       |           | Qvalue |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| 5) Bromomethane                | 2.77  | 94  | 770   | Below Cal | #      | 69  |
| 10) Methyl Iodide              | 4.29  | 142 | 42    | 3.827     | ug/l # | 44  |
| 11) Tert butyl alcohol         | 5.19  | 59  | 350   | Below Cal | #      | 72  |
| 16) Acetone                    | 4.14  | 43  | 16409 | 27.530    | ug/l   | 88  |
| 18) Methyl Acetate             | 4.69  | 43  | 7240  | 4.129     | ug/l   | 93  |
| 20) Methylene Chloride         | 4.93  | 84  | 25576 | 2.666     | ug/l   | 97  |
| 25) 2-Butanone                 | 7.20  | 43  | 3828  | 3.703     | ug/l   | 100 |
| 29) Tetrahydrofuran            | 7.54  | 42  | 797   | 1.509     | ug/l # | 60  |
| 31) Cyclohexane                | 7.96  | 56  | 6568  | 1.125     | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.96  | 75  | 25580 | 5.022     | ug/l # | 47  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 32066 | 6.621     | ug/l # | 16  |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 36280 | 50.238    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 36280 | 120.918   | ug/l # | 15  |
| 95) Naphthalene                | 15.38 | 128 | 1436  | 4.360     | ug/l # | 90  |

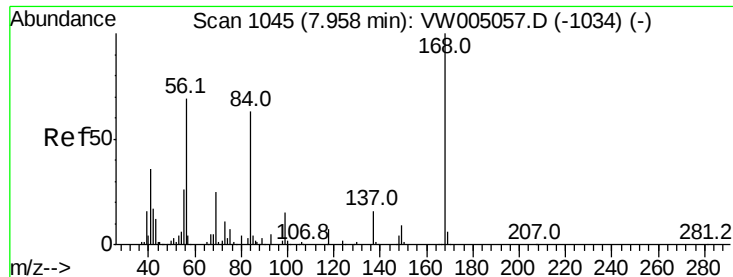
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090618\  
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Sample : J4720-02  
Misc : 5.03G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BZTRANS-2

Quant Time: Sep 06 16:37:47 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

Instrument :

MSVOA\_W

ClientSampleId :

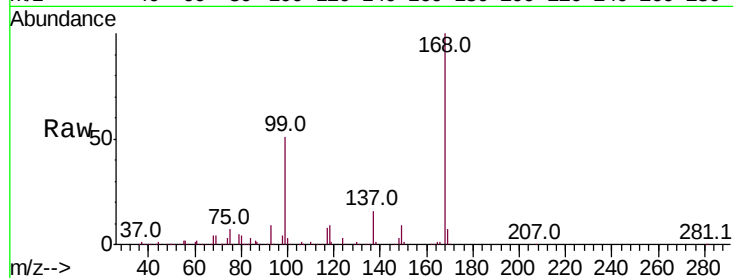
BZTRANS-2

Tot Ion:168 Resp: 358536

Ion Ratio Lower Upper

168 100

99 51.0 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.96

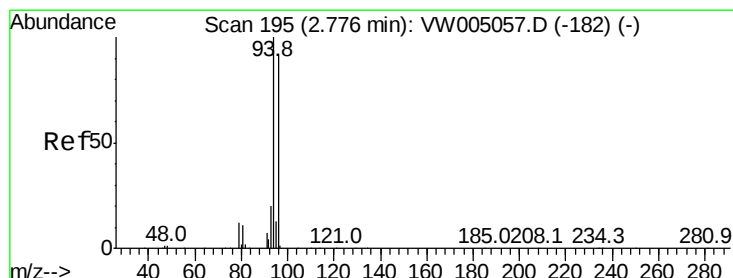
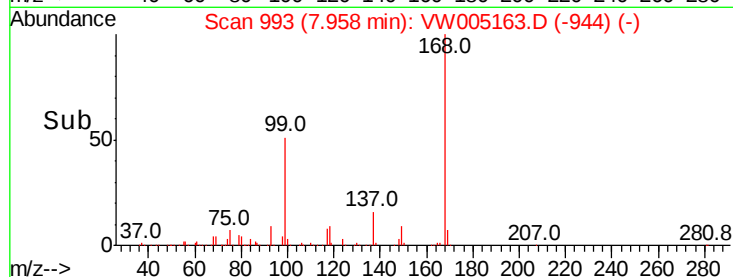
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW005163.D

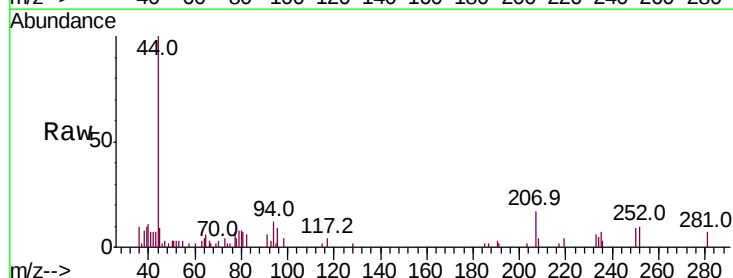
Acq: 06 Sep 2018 14:59

Tgt Ion: 94 Resp: 770

Ion Ratio Lower Upper

94 100

96 61.8 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.77

400

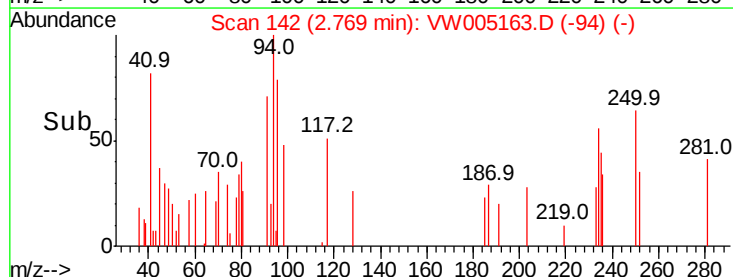
300

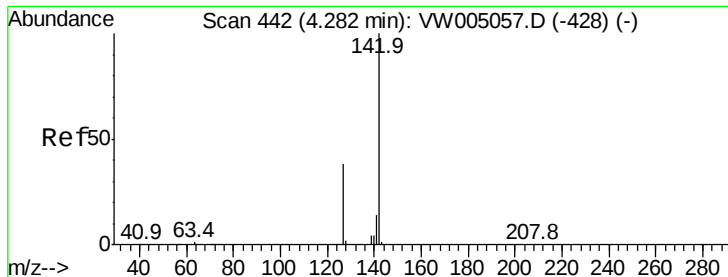
200

100

0

Time-->

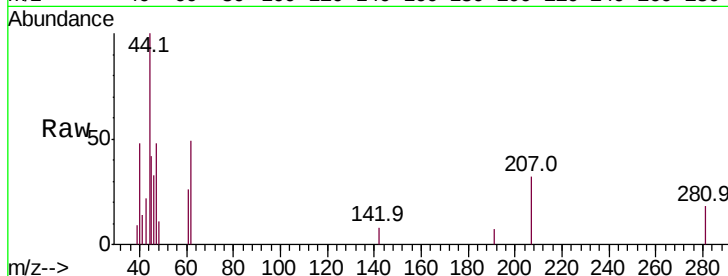




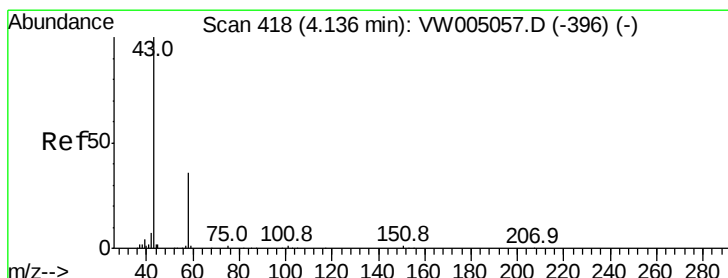
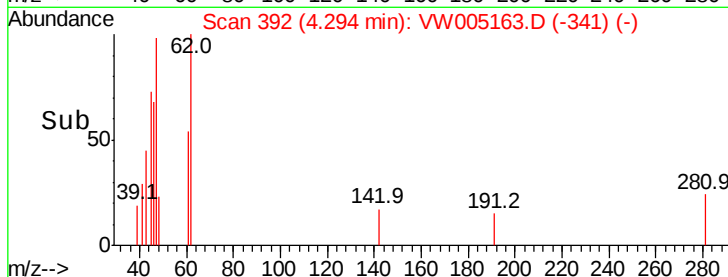
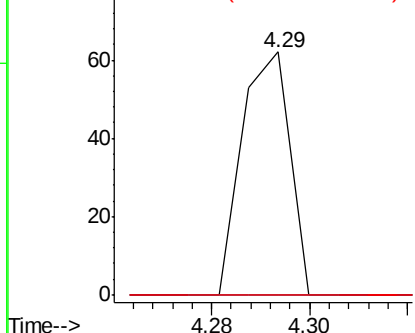
#10  
Methvl Iodide  
Concen: 3.827 ug/l  
RT: 4.29 min Scan# 392  
Delta R.T. 0.01 min  
Lab File: VW005163.D  
Acq: 06 Sep 2018 14:59

Instrument :  
MSVOA\_W  
ClientSampleId :  
BZTRANS-2

Tot Ion:142 Resp: 42  
Ion Ratio Lower Upper  
142 100  
127 0.0 30.8 46.2#  
141 0.0 11.6 17.4#

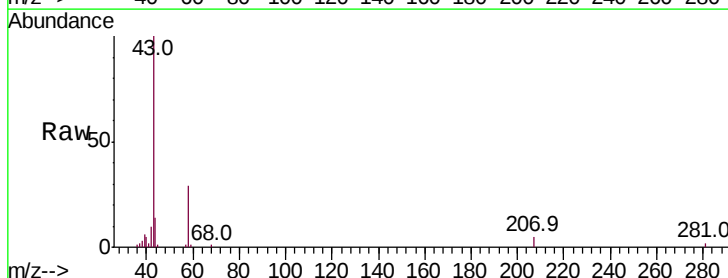


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

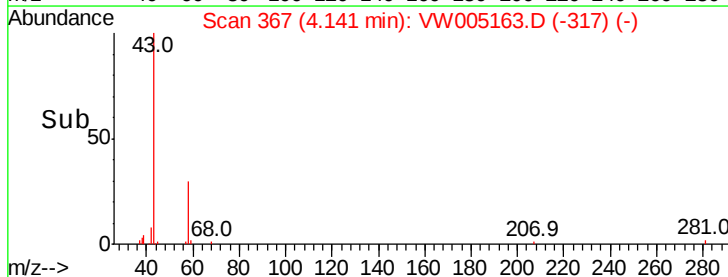
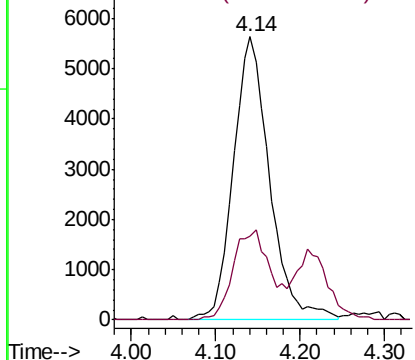


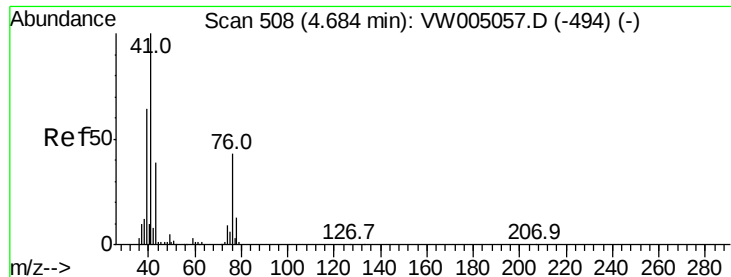
#16  
Acetone  
Concen: 27.530 ug/l  
RT: 4.14 min Scan# 367  
Delta R.T. 0.01 min  
Lab File: VW005163.D  
Acq: 06 Sep 2018 14:59

Tgt Ion: 43 Resp: 16409  
Ion Ratio Lower Upper  
43 100  
58 29.4 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

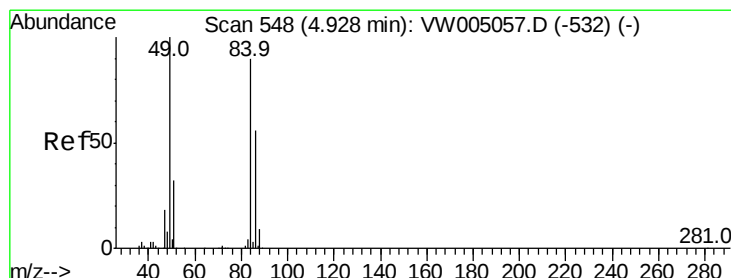
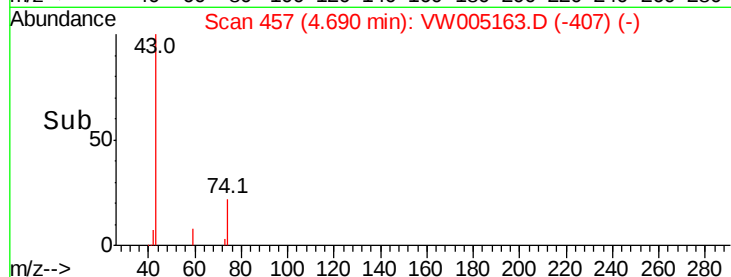
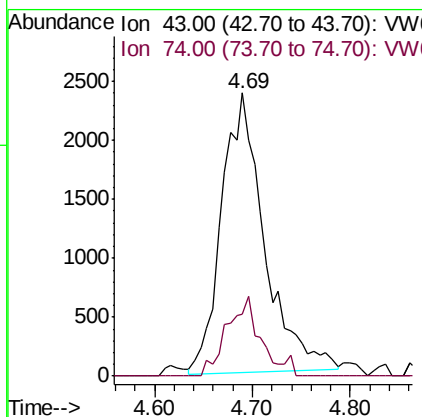
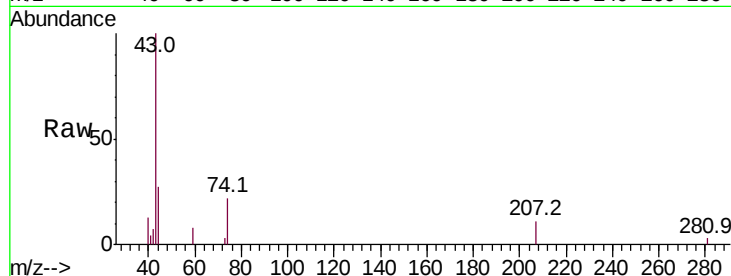




#18  
Methvl Acetate  
Concen: 4.129 ug/l  
RT: 4.69 min Scan# 457  
Delta R.T. 0.01 min  
Lab File: VW005163.D  
Acq: 06 Sep 2018 14:59

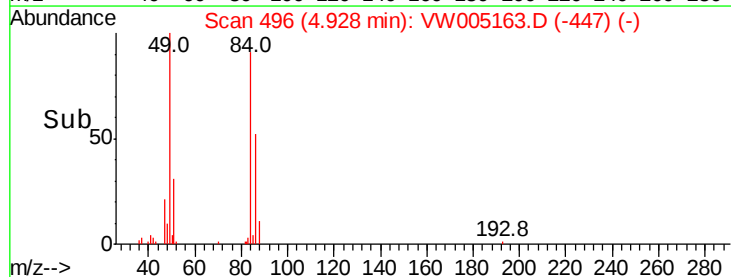
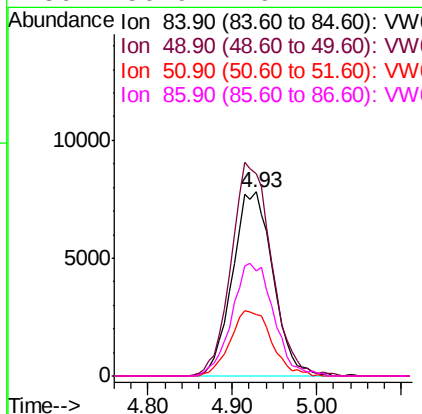
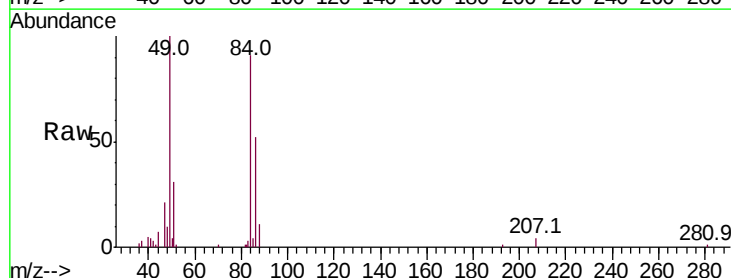
Instrument :  
MSVOA\_W  
ClientSampleId :  
BZTRANS-2

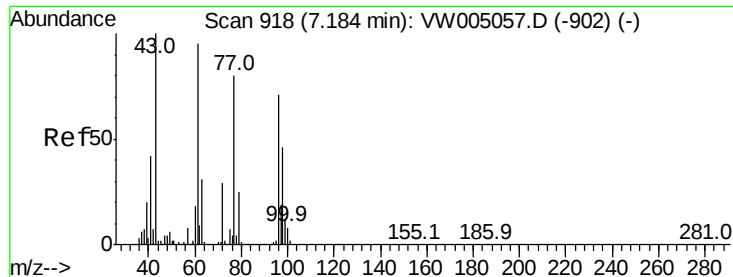
Tot Ion: 43 Resp: 7240  
Ion Ratio Lower Upper  
43 100  
74 22.5 20.7 31.1



#20  
Methylene Chloride  
Concen: 2.666 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. -0.00 min  
Lab File: VW005163.D  
Acq: 06 Sep 2018 14:59

Tgt Ion: 84 Resp: 25576  
Ion Ratio Lower Upper  
84 100  
49 109.8 88.7 133.1  
51 33.6 28.6 42.8  
86 56.9 49.4 74.2





#25

2-Butanone

Concen: 3.703 ug/l

RT: 7.20 min Scan# 868

Delta R.T. 0.01 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

Instrument :

MSVOA\_W

ClientSampled :

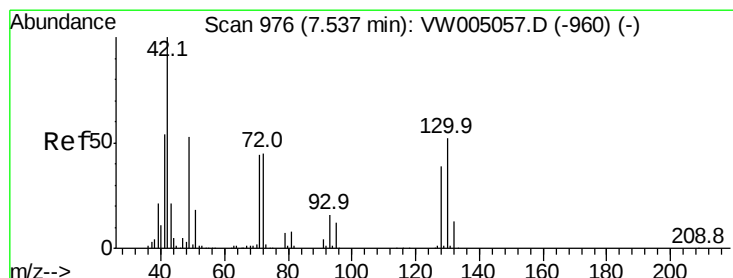
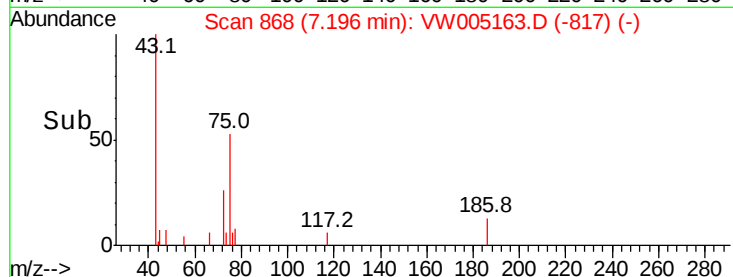
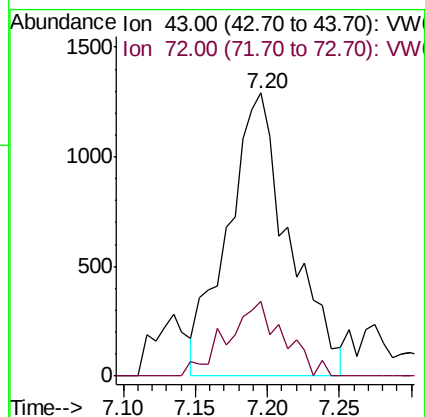
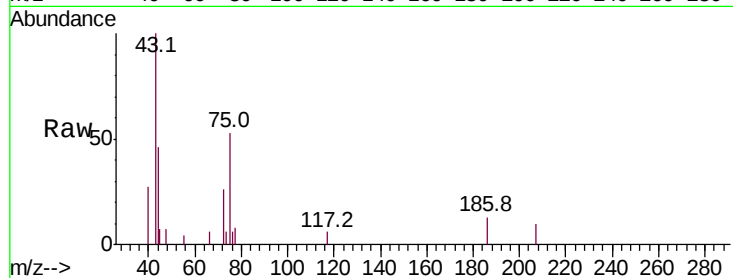
BZTRANS-2

Tot Ion: 43 Resp: 3828

Ion Ratio Lower Upper

43 100

72 29.1 23.1 34.7



#29

Tetrahydrofuran

Concen: 1.509 ug/l

RT: 7.54 min Scan# 924

Delta R.T. -0.00 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

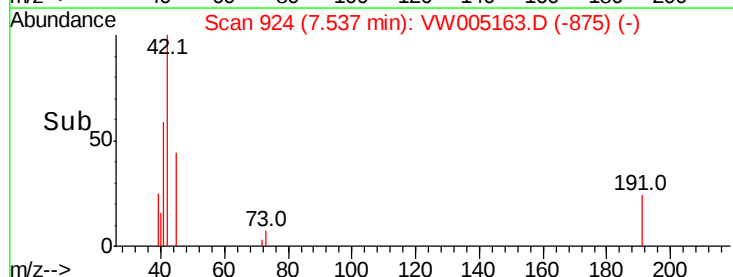
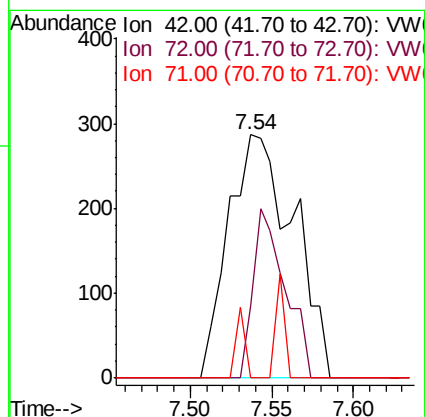
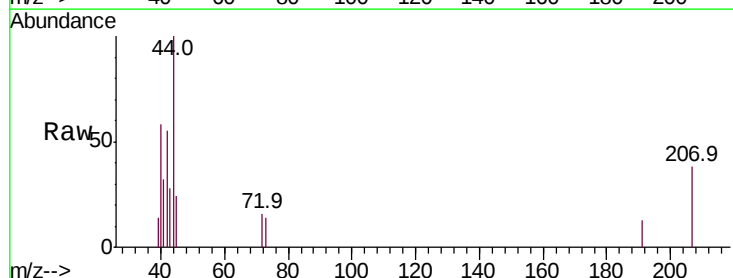
Tgt Ion: 42 Resp: 797

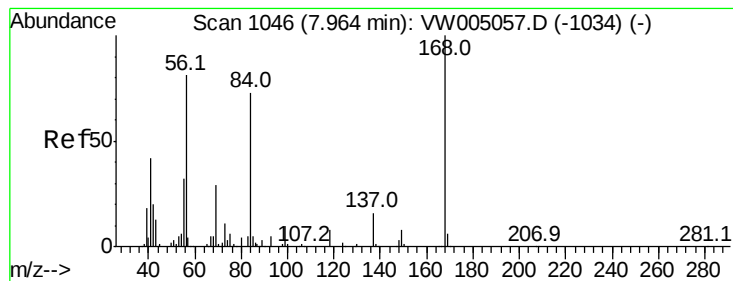
Ion Ratio Lower Upper

42 100

72 34.1 37.0 55.4#

71 3.8 35.0 52.6#





#31

Cyclohexane

Concen: 1.125 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

Instrument :

MSVOA\_W

ClientSampleId :

BZTRANS-2

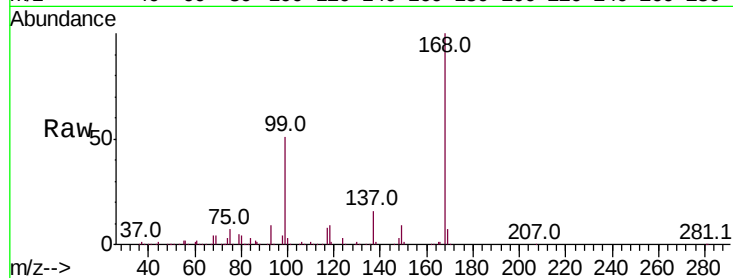
Tot Ion: 56 Resp: 6568

Ion Ratio Lower Upper

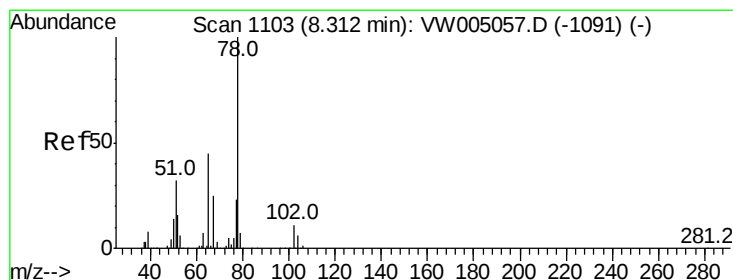
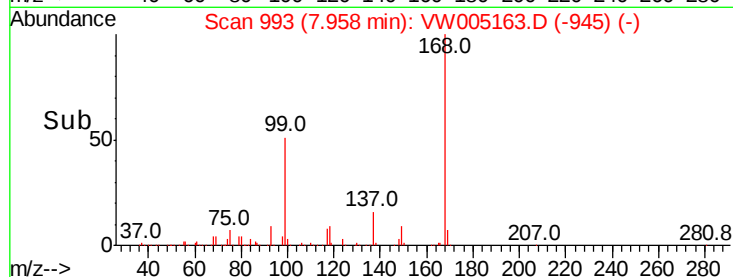
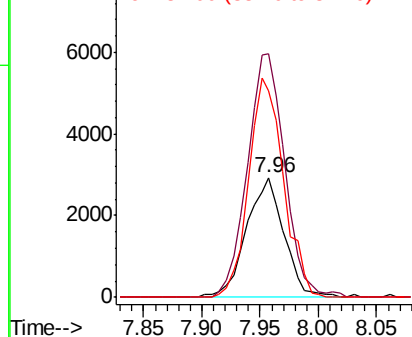
56 100

69 203.4 28.2 42.2#

84 172.5 71.8 107.8#



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: 46.130 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005163.D

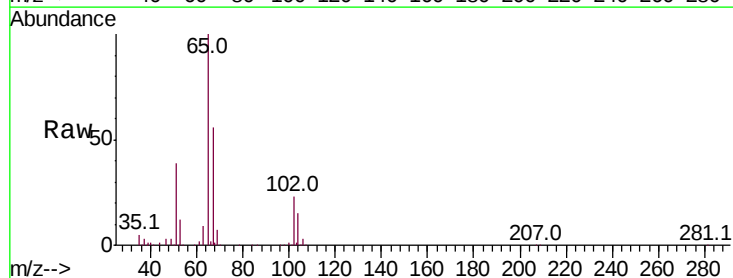
Acq: 06 Sep 2018 14:59

Tgt Ion: 65 Resp: 137102

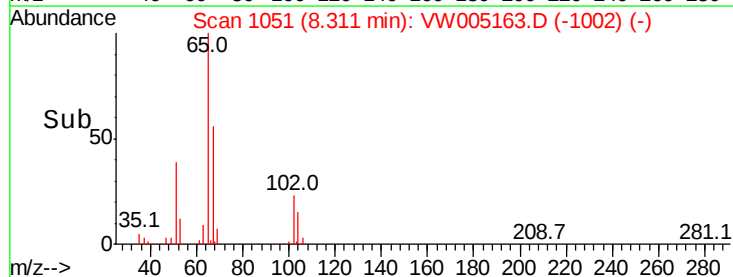
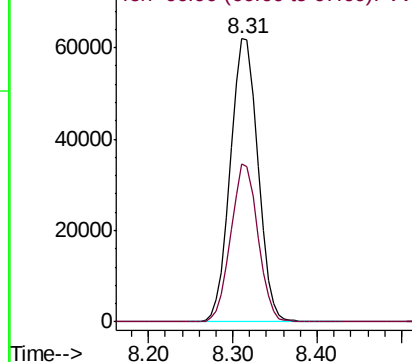
Ion Ratio Lower Upper

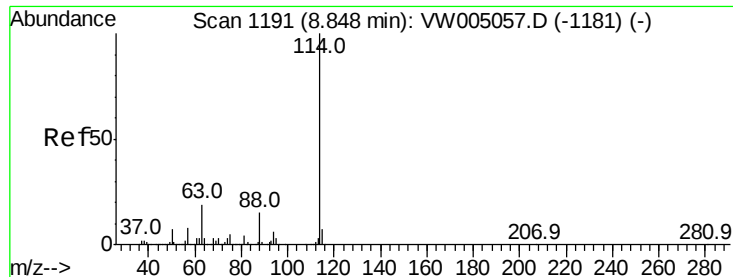
65 100

67 54.7 0.0 109.4



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

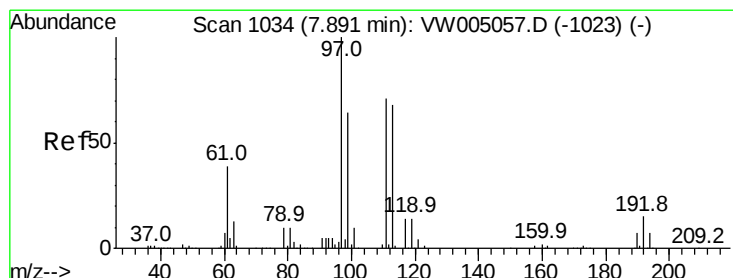
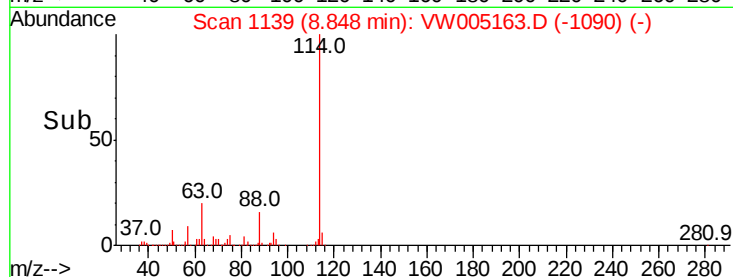
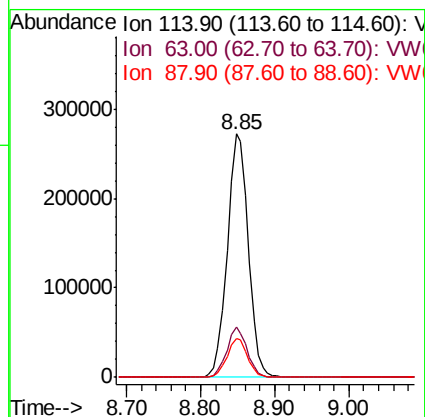
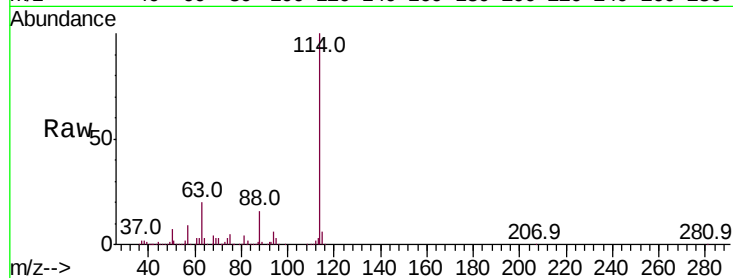




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW005163.D  
 Acq: 06 Sep 2018 14:59

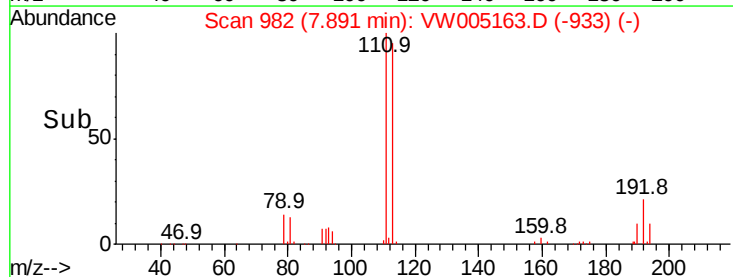
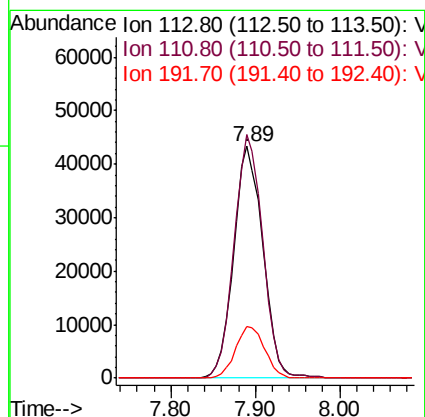
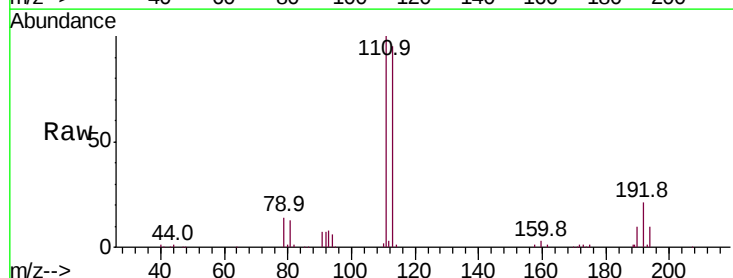
Instrument :  
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 BZTRANS-2

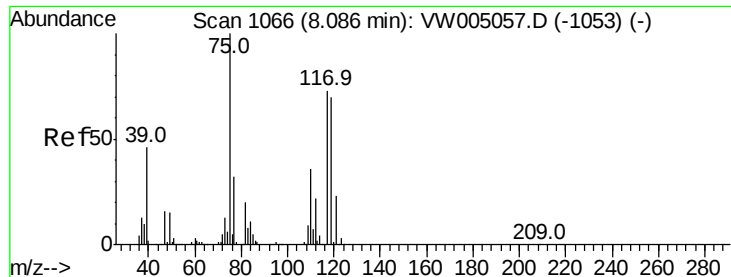
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.4  | 0.0   | 38.0  |
| 88      | 15.7  | 0.0   | 30.2  |



#35  
 Dibromofluoromethane  
 Concen: 32.845 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VW005163.D  
 Acq: 06 Sep 2018 14:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 82.2  | 123.2 |
| 192     | 22.1  | 18.1  | 27.1  |





#36

1,1-Dichloropropene

Concen: 5.022 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.13 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

Instrument :

MSVOA\_W

ClientSampleId :

BZTRANS-2

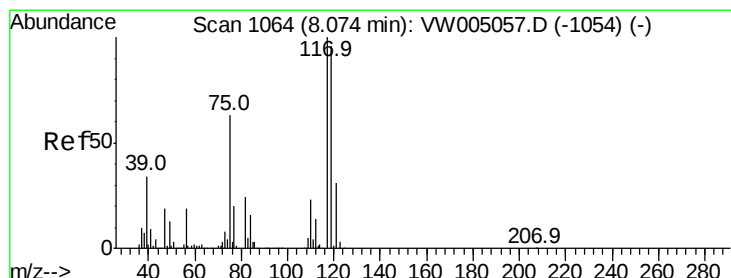
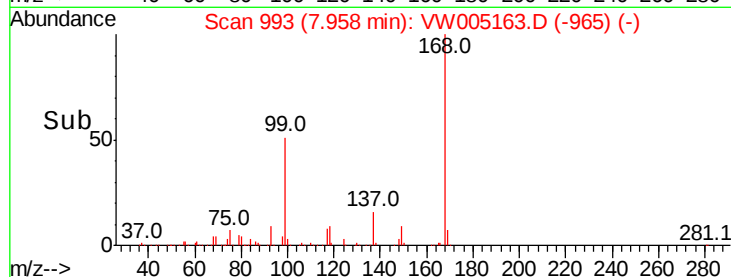
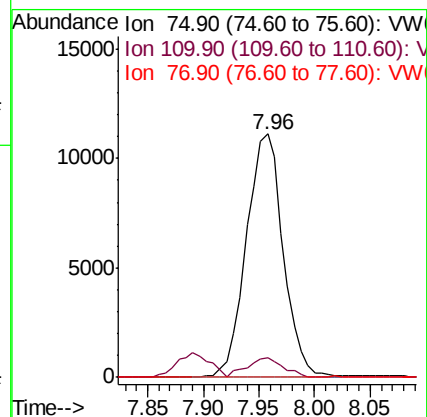
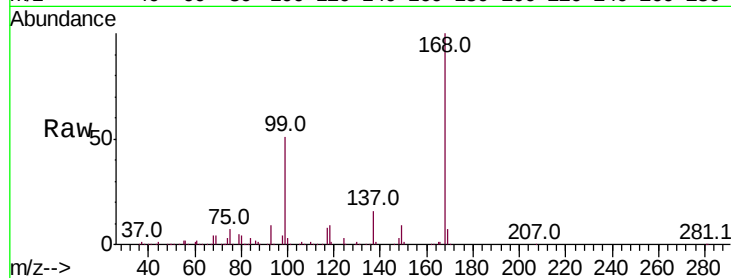
Tot Ion: 75 Resp: 25580

Ion Ratio Lower Upper

75 100

110 7.8 18.9 56.7#

77 0.0 25.5 38.3#



#38

Carbon Tetrachloride

Concen: 6.621 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

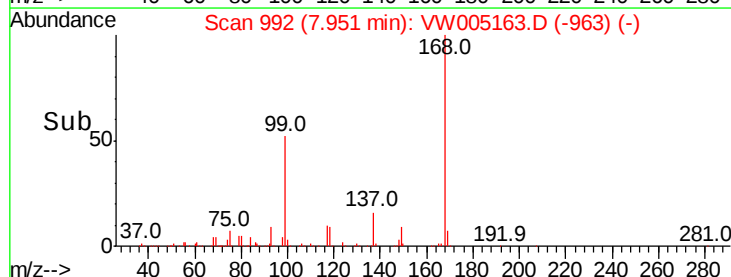
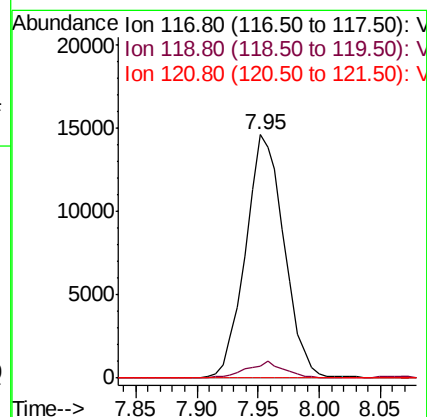
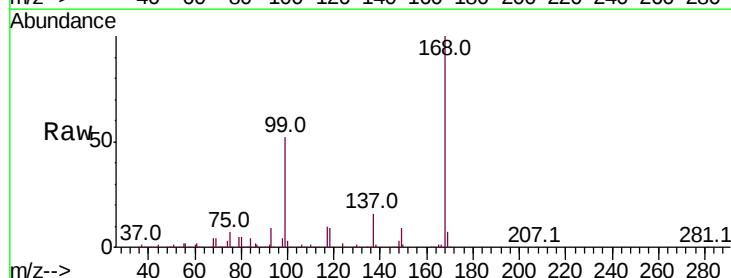
Tgt Ion: 117 Resp: 32066

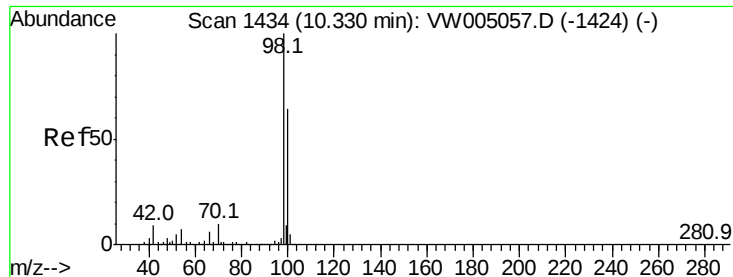
Ion Ratio Lower Upper

117 100

119 5.1 76.6 115.0#

121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 17.182 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

Instrument :

MSVOA\_W

ClientSampleId :

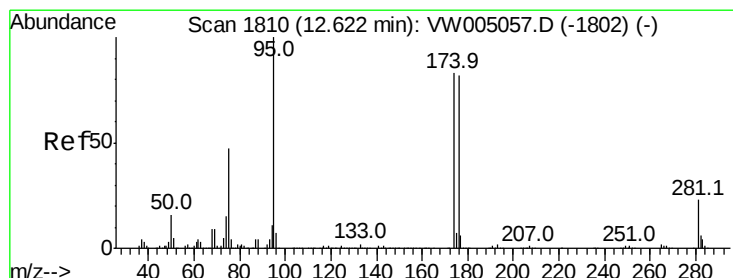
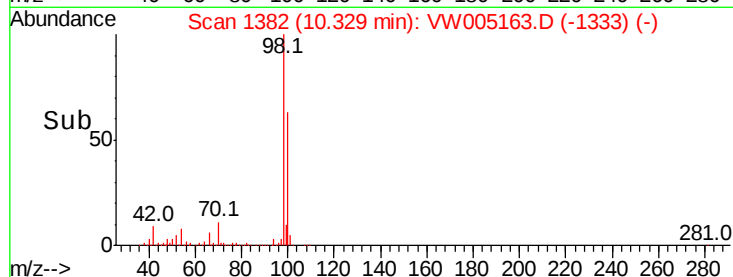
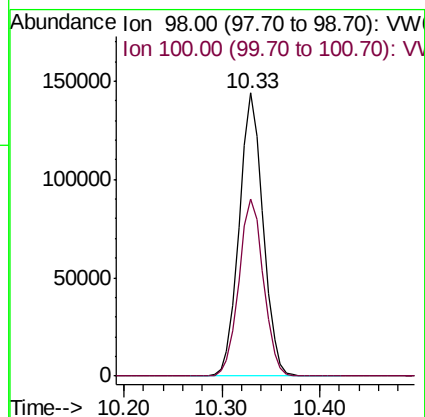
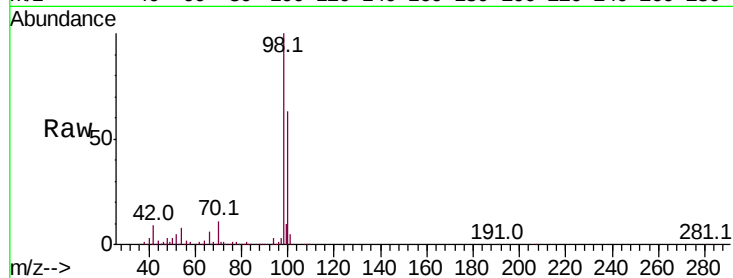
BZTRANS-2

Tot Ion: 98 Resp: 244679

Ion Ratio Lower Upper

98 100

100 64.2 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 15.739 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

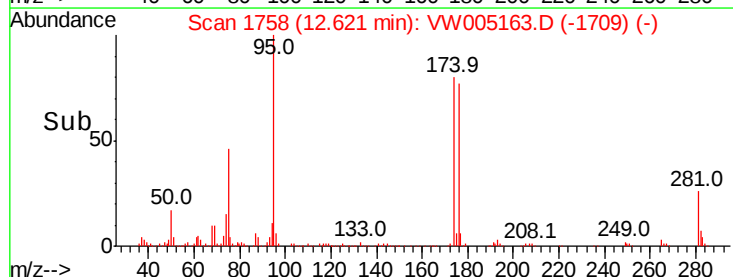
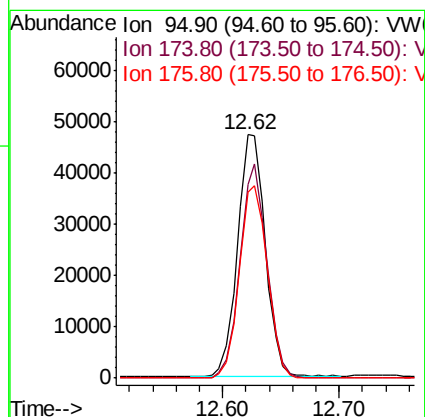
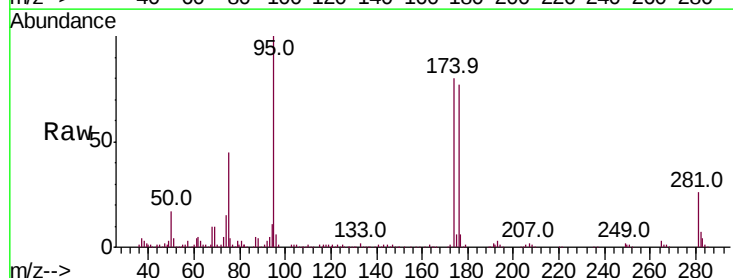
Tgt Ion: 95 Resp: 79030

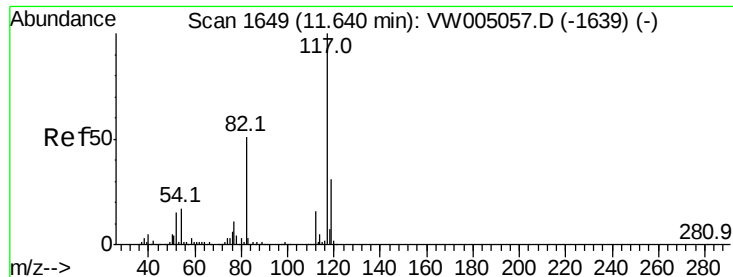
Ion Ratio Lower Upper

95 100

174 85.1 0.0 173.4

176 80.3 0.0 167.4

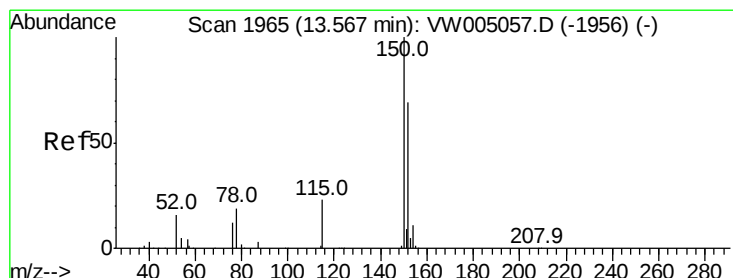
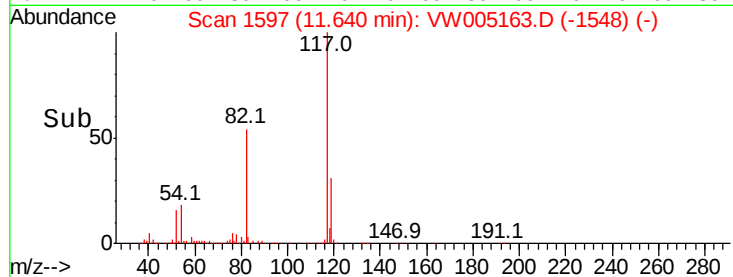
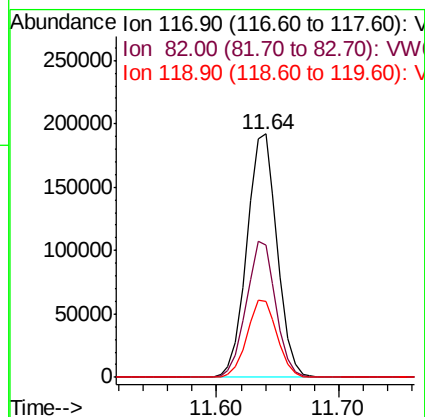
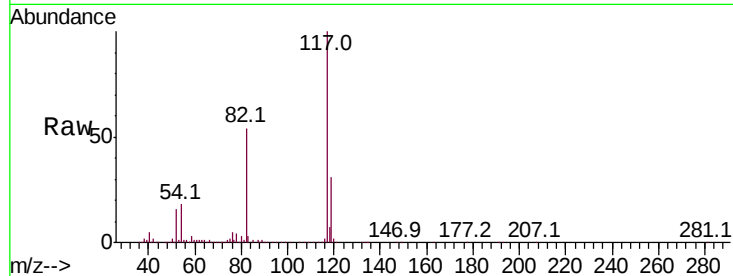




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1597  
Delta R.T. -0.00 min  
Lab File: VW005163.D  
Acq: 06 Sep 2018 14:59

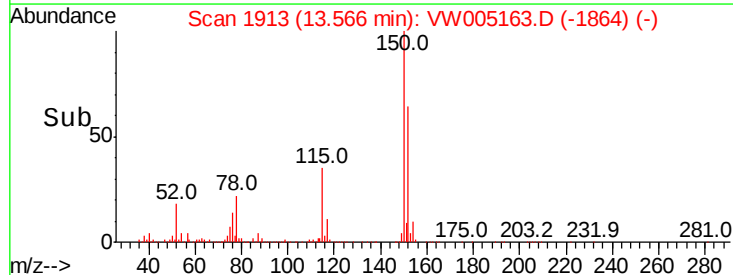
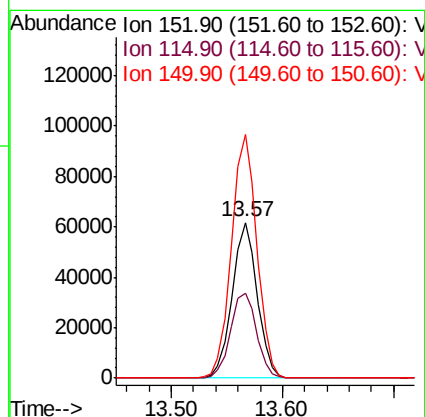
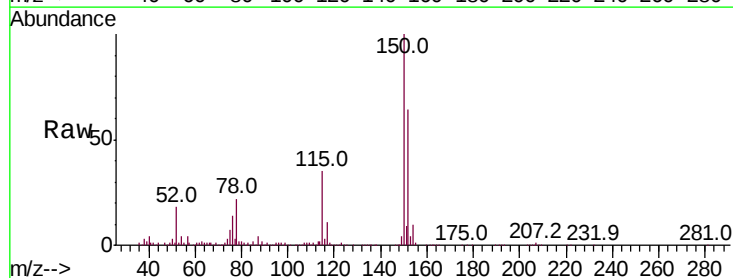
Instrument :  
MSVOA\_W  
ClientSampleId :  
BZTRANS-2

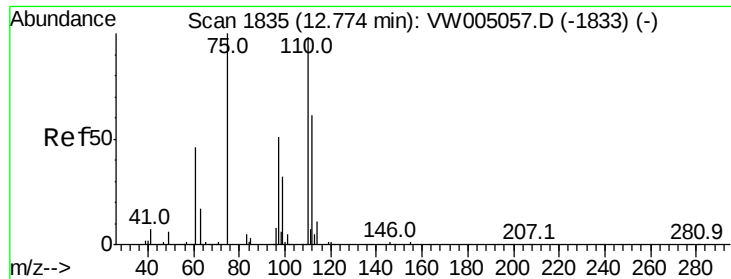
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 40.9  | 61.3  |
| 119     | 31.3  | 24.9  | 37.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW005163.D  
Acq: 06 Sep 2018 14:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.9  | 27.8  | 83.4  |
| 150     | 157.7 | 0.0   | 351.4 |

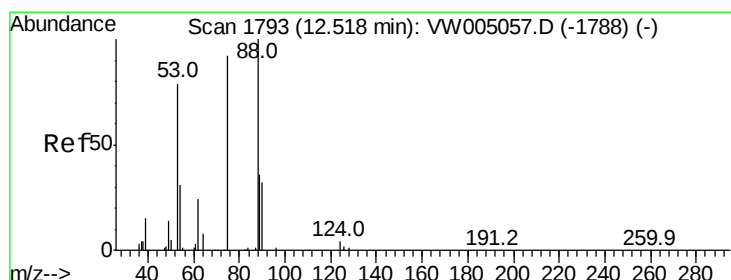
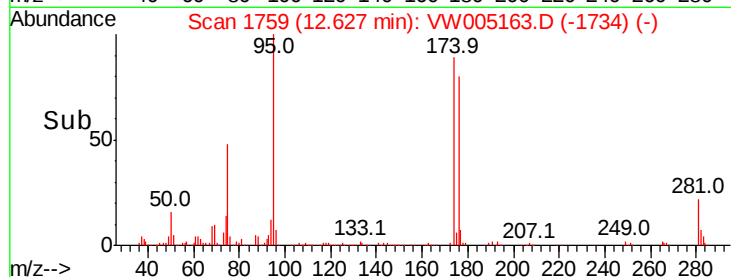
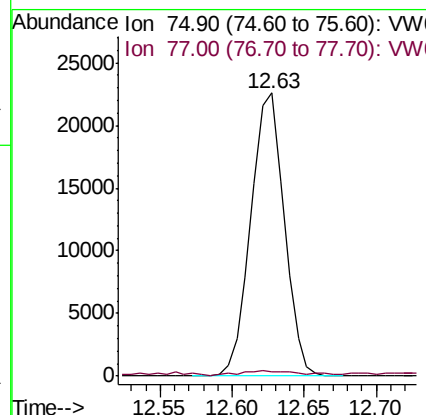
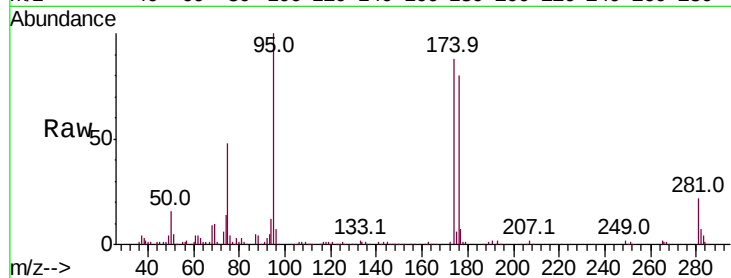




#76  
 1,2,3-Trichloropropane  
 Concen: 50.238 ug/l  
 RT: 12.63 min Scan# 1759  
 Delta R.T. -0.15 min  
 Lab File: VW005163.D  
 Acq: 06 Sep 2018 14:59

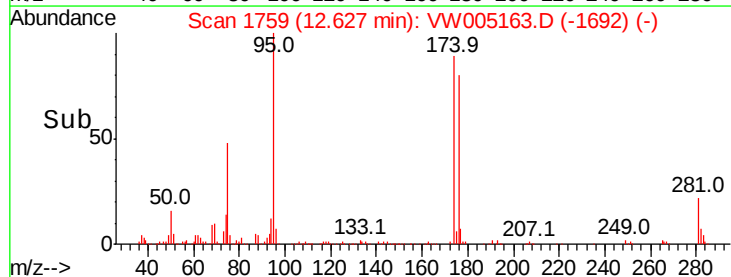
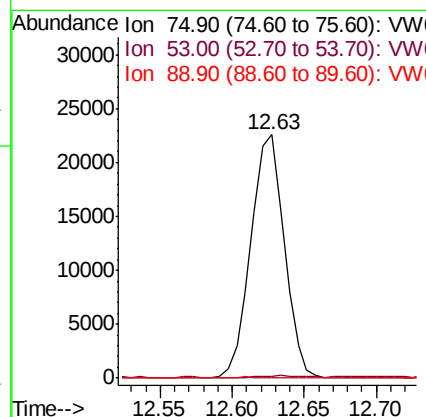
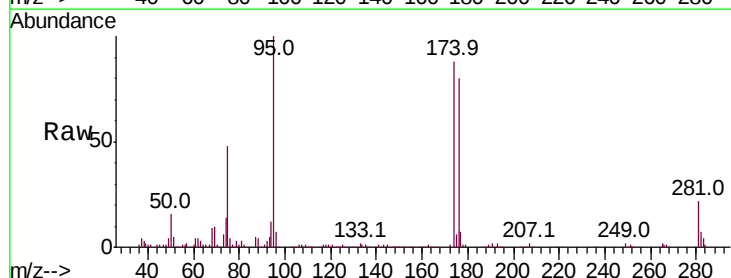
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BZTRANS-2

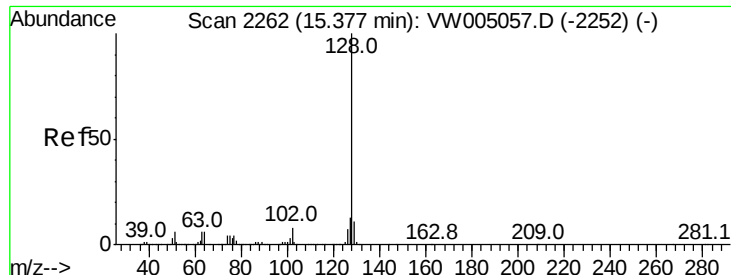
Tot Ion: 75 Resp: 36280  
 Ion Ratio Lower Upper  
 75 100  
 77 2.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 120.918 ug/l  
 RT: 12.63 min Scan# 1759  
 Delta R.T. 0.11 min  
 Lab File: VW005163.D  
 Acq: 06 Sep 2018 14:59

Tgt Ion: 75 Resp: 36280  
 Ion Ratio Lower Upper  
 75 100  
 53 1.0 69.8 104.8#  
 89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 4.360 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005163.D

Acq: 06 Sep 2018 14:59

Instrument :

MSVOA\_W

ClientSampleId :

BZTRANS-2

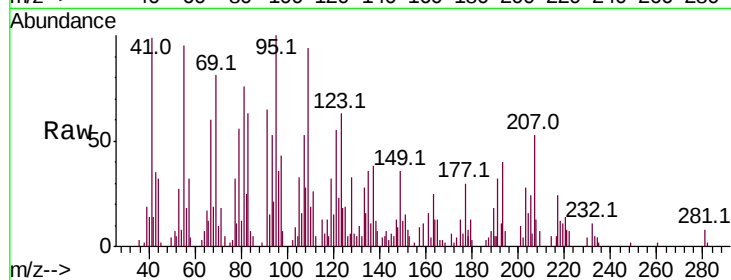
Tot Ion:128 Resp: 1436

Ion Ratio Lower Upper

128 100

127 10.9 10.4 15.6

129 4.7 8.7 13.1#



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

