

Data File : VW009023.D  
Acq On : 06 Mar 2019 18:51  
Operator : SY/VA  
Sample : K1753-01  
Misc : 4.48G/5ML/MSVOA\_W/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
Z-2-5

Quant Time: Mar 07 07:28:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030619S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 07 07:22:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 324852   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 511736   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 422279   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 166045   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 185274   | 56.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.70% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 156332   | 50.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.50% |      |
| 50) Toluene-d8            | 10.32  | 98  | 594697   | 46.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.96%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 181087   | 37.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 74.08%  |      |

#### Target Compounds

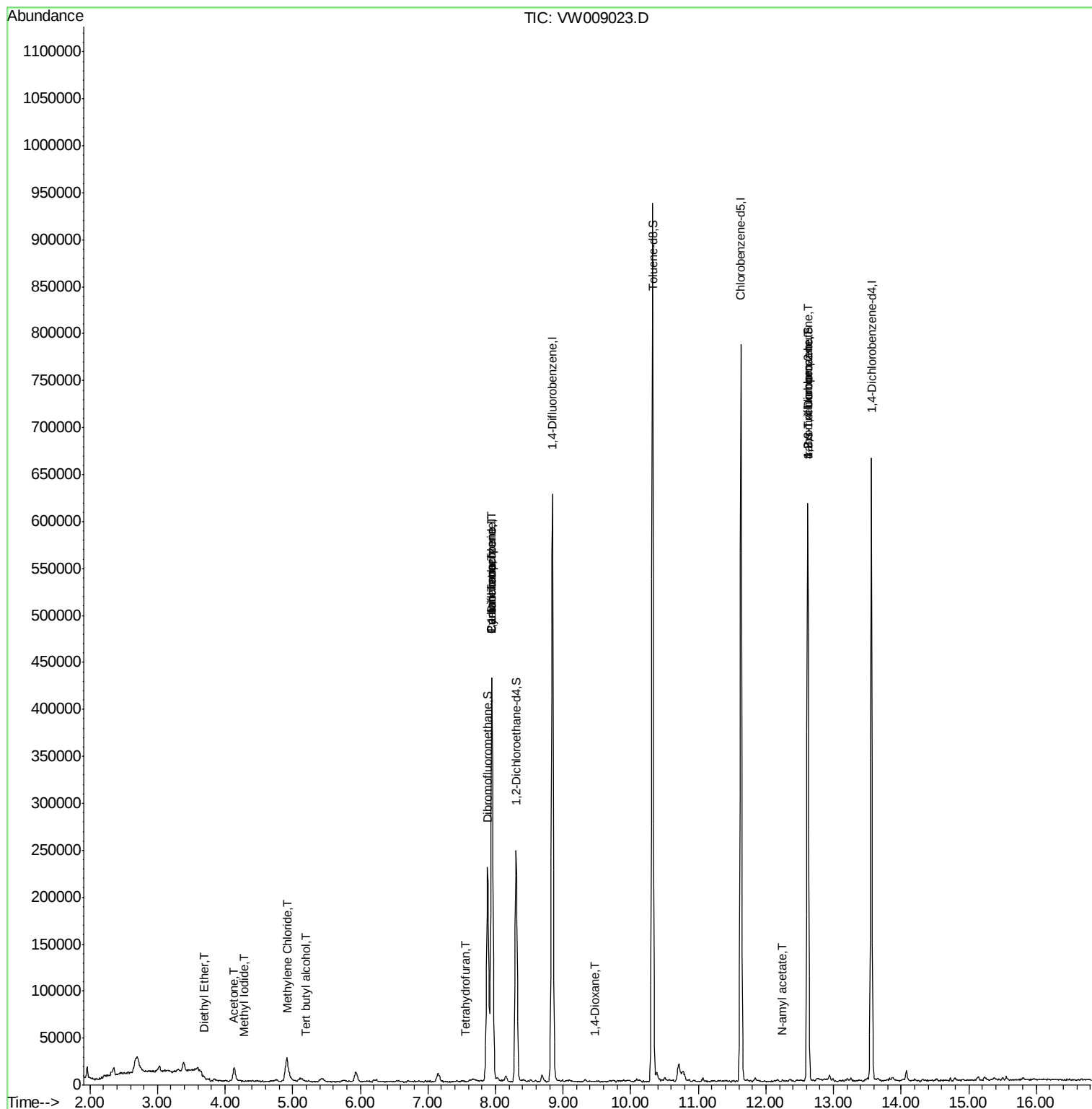
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 8) Diethyl Ether               | 3.69  | 74  | 1685  | 1.029   | ug/l   | 97     |
| 10) Methyl Iodide              | 4.28  | 142 | 106   | 5.661   | ug/l # | 39     |
| 11) Tert butyl alcohol         | 5.19  | 59  | 608   | 2.602   | ug/l # | 70     |
| 16) Acetone                    | 4.14  | 43  | 25593 | 38.234  | ug/l   | 90     |
| 20) Methylene Chloride         | 4.92  | 84  | 17477 | 3.150   | ug/l   | 96     |
| 29) Tetrahydrofuran            | 7.56  | 42  | 608   | 1.016   | ug/l # | 35     |
| 31) Cyclohexane                | 7.95  | 56  | 8273  | 1.413   | ug/l # | 34     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 24813 | 4.876   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 31615 | 6.004   | ug/l # | 15     |
| 49) 1,4-Dioxane                | 9.47  | 88  | 35    | 1.364   | ug/l # | 15     |
| 74) N-amyl acetate             | 12.25 | 43  | 378   | 4.331   | ug/l # | 69     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 97131 | 73.808  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 97131 | 149.405 | ug/l # | 6      |

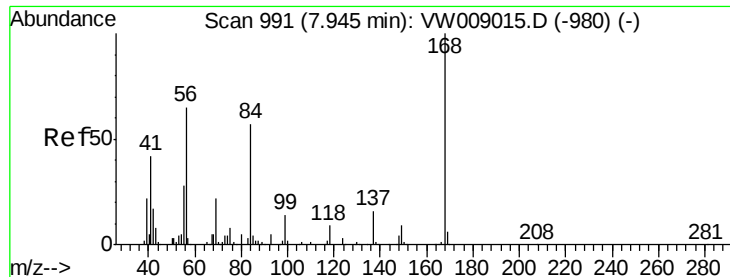
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW009023.D

Acq: 06 Mar 2019 18:51

Instrument :

MSVOA\_W

ClientSampleId :

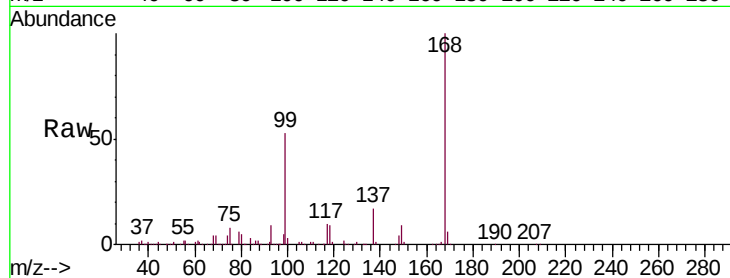
Z-2-5

Tgt Ion:168 Resp: 324852

Ion Ratio Lower Upper

168 100

99 53.1 43.5 65.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

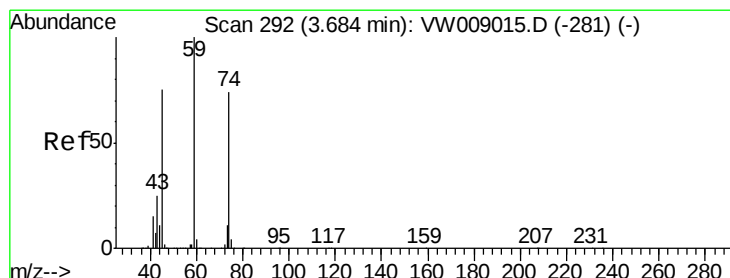
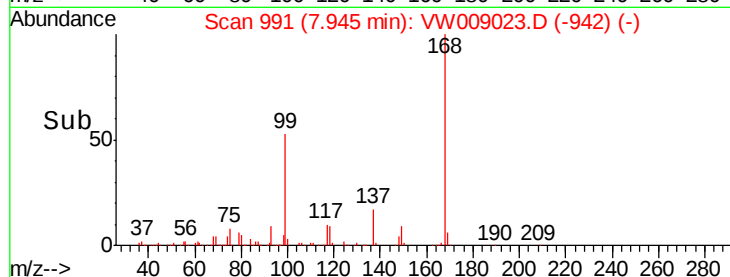
100000

50000

0

7.90 8.00 8.10

Time-->



#8

Diethyl Ether

Concen: 1.029 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW009023.D

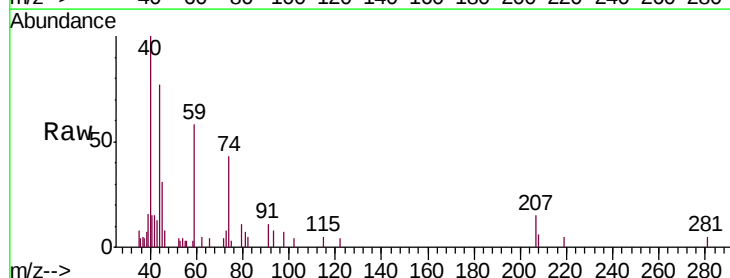
Acq: 06 Mar 2019 18:51

Tgt Ion: 74 Resp: 1685

Ion Ratio Lower Upper

74 100

45 94.6 48.8 146.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.69

800

600

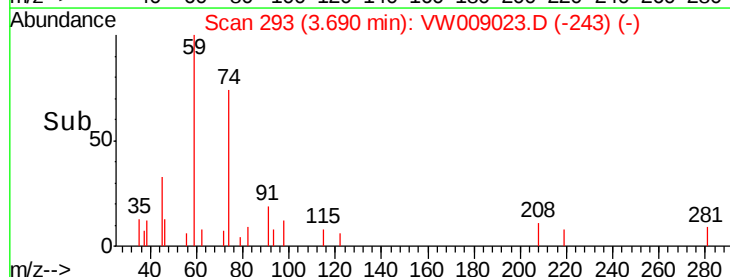
400

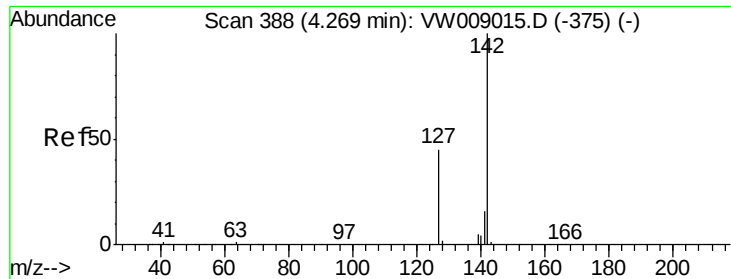
200

0

3.55 3.60 3.65 3.70 3.75

Time-->

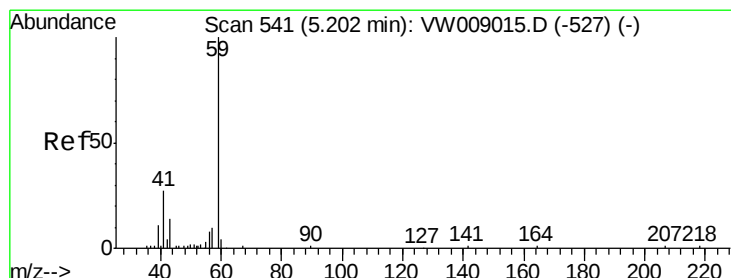
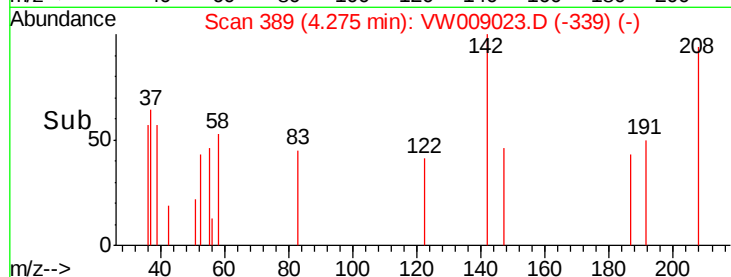
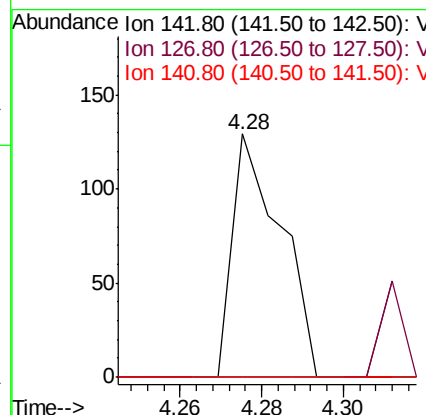
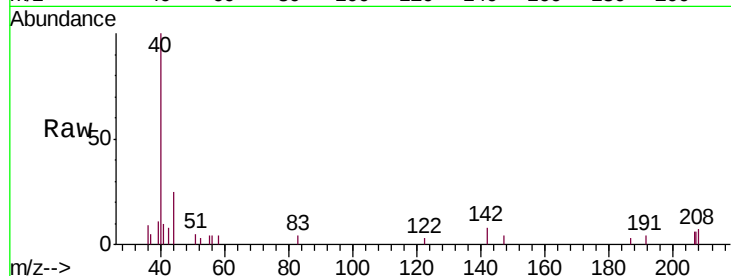




#10  
Methyl Iodide  
Concen: 5.661 ug/l  
RT: 4.28 min Scan# 389  
Delta R.T. 0.01 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

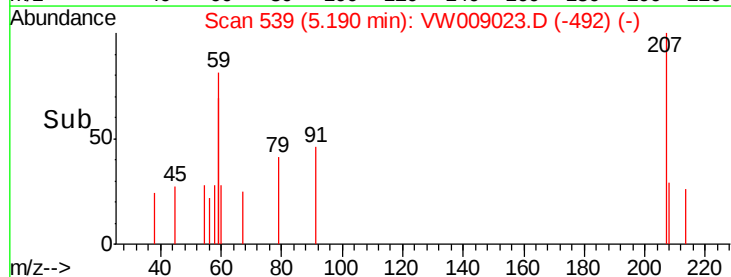
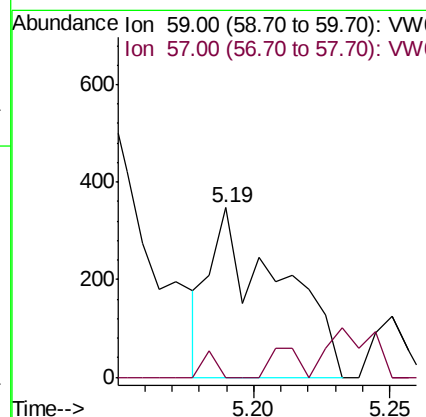
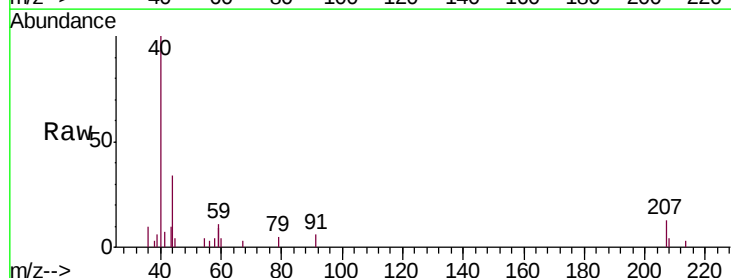
Instrument :  
MSVOA\_W  
ClientSampleId :  
Z-2-5

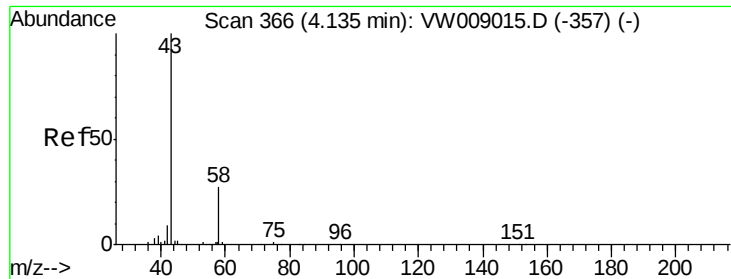
Tgt Ion:142 Resp: 106  
Ion Ratio Lower Upper  
142 100  
127 0.0 36.2 54.2#  
141 0.0 12.3 18.5#



#11  
Tert butyl alcohol  
Concen: 2.602 ug/l  
RT: 5.19 min Scan# 539  
Delta R.T. -0.01 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

Tgt Ion: 59 Resp: 608  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.6#

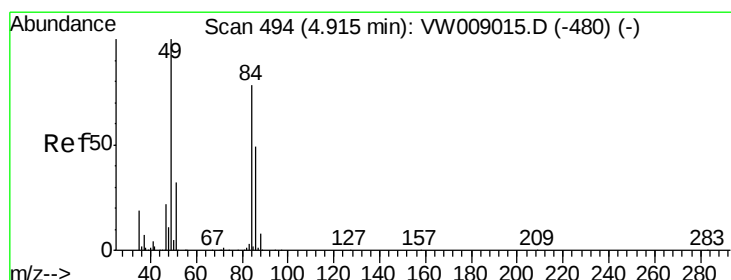
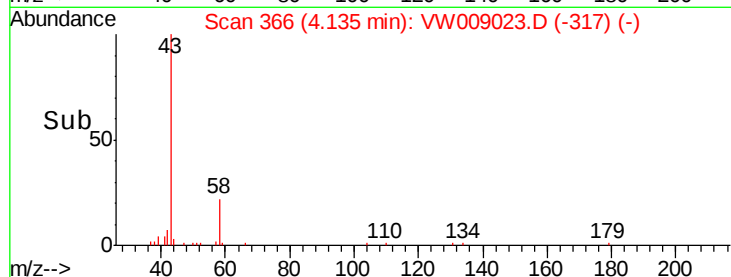
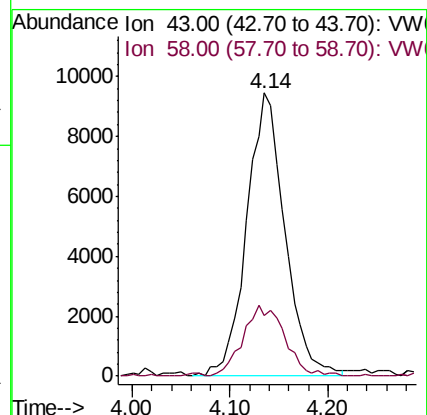
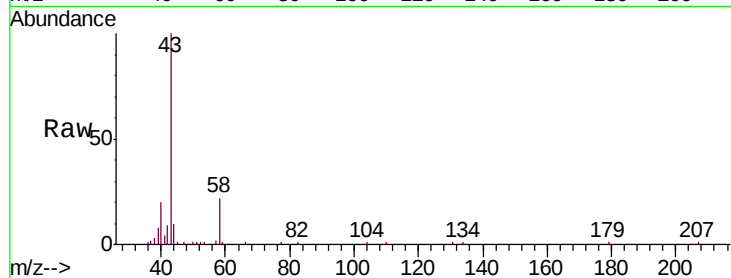




#16  
Acetone  
Concen: 38.234 ug/l  
RT: 4.14 min Scan# 366  
Delta R.T. 0.00 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

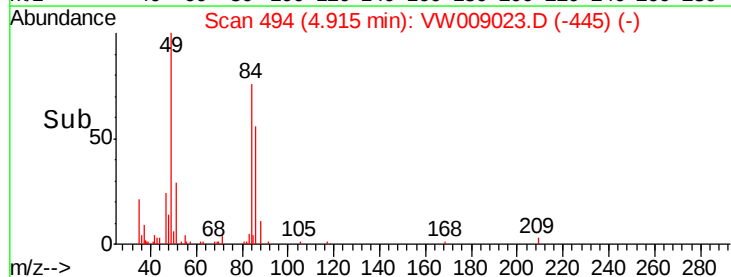
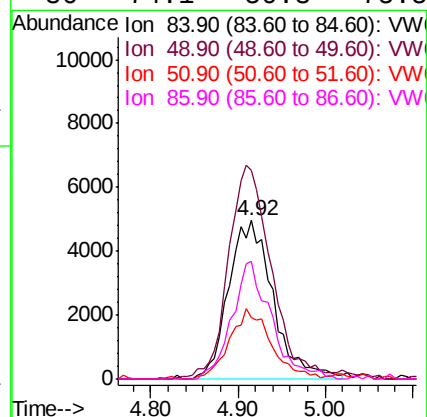
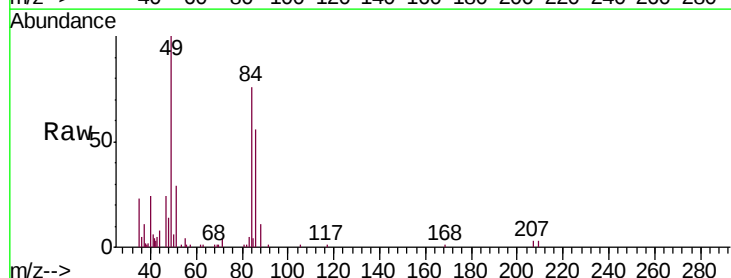
Instrument :  
MSVOA\_W  
ClientSampled :  
Z-2-5

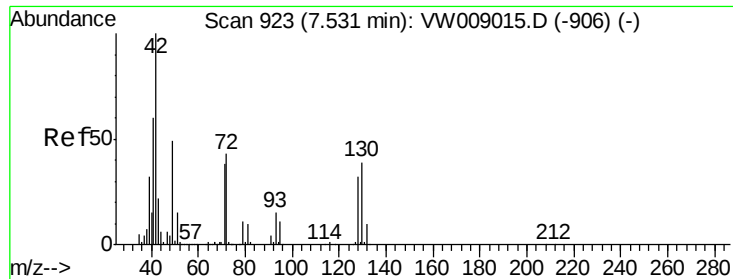
Tgt Ion: 43 Resp: 25593  
Ion Ratio Lower Upper  
43 100  
58 21.6 21.6 32.4



#20  
Methylene Chloride  
Concen: 3.150 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

Tgt Ion: 84 Resp: 17477  
Ion Ratio Lower Upper  
84 100  
49 128.5 102.8 154.2  
51 38.7 32.4 48.6  
86 74.1 50.3 75.5

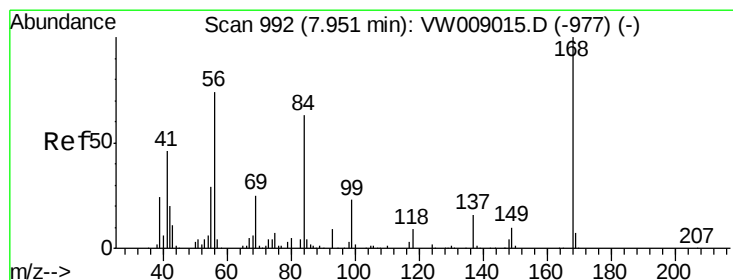
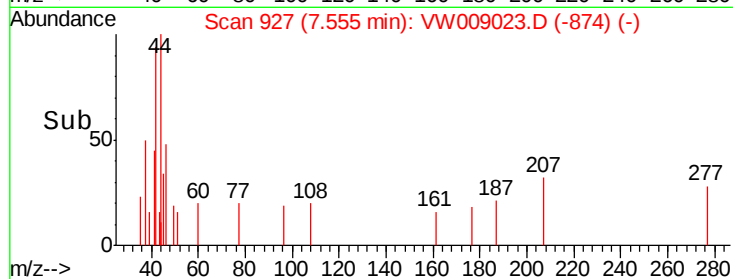
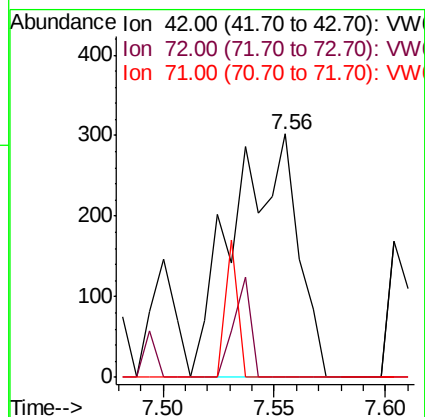
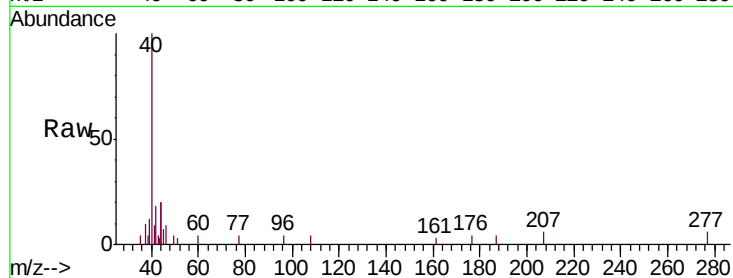




#29  
Tetrahydrofuran  
Concen: 1.016 ug/l  
RT: 7.56 min Scan# 927  
Delta R.T. 0.02 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

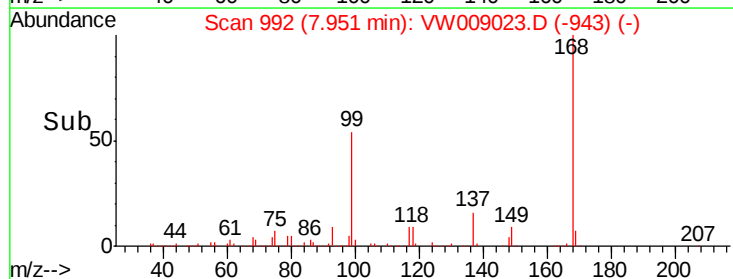
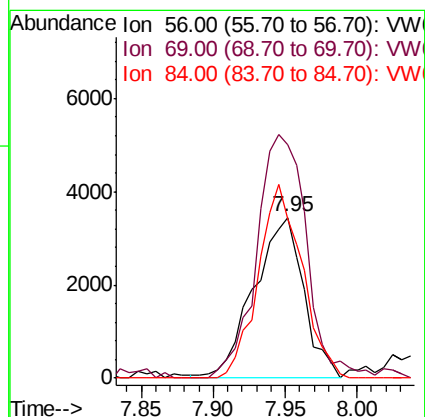
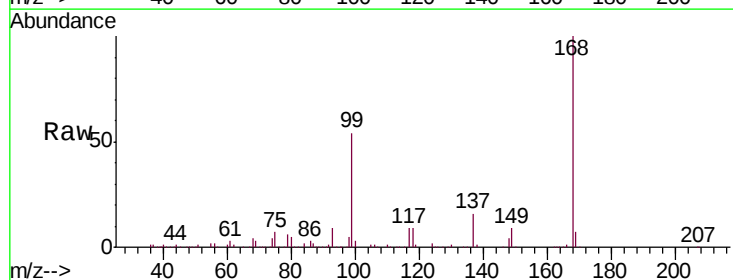
Instrument :  
MSVOA\_W  
ClientSampleId :  
Z-2-5

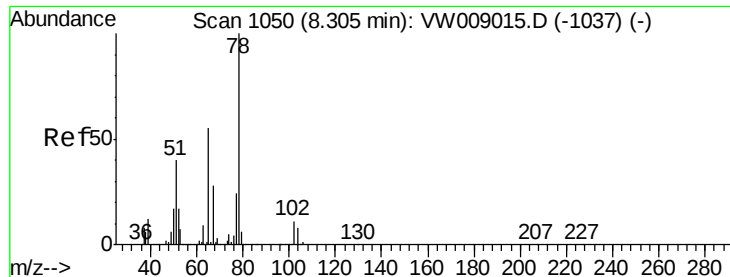
Tgt Ion: 42 Resp: 608  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.5 48.7#  
71 0.0 31.6 47.4#



#31  
Cyclohexane  
Concen: 1.413 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

Tgt Ion: 56 Resp: 8273  
Ion Ratio Lower Upper  
56 100  
69 145.5 27.0 40.4#  
84 99.3 68.3 102.5





#33

1,2-Dichloroethane-d4

Concen: 56.849 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

Instrument :

MSVOA\_W

ClientSampleId :

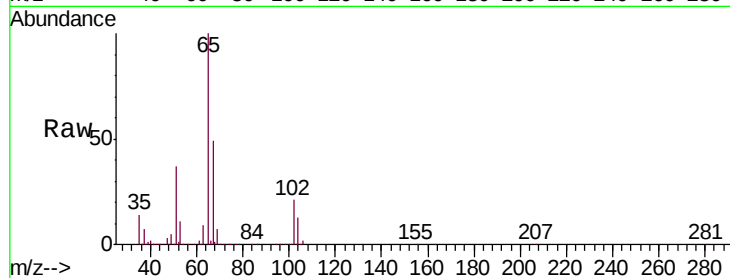
Z-2-5

Tgt Ion: 65 Resp: 185274

Ion Ratio Lower Upper

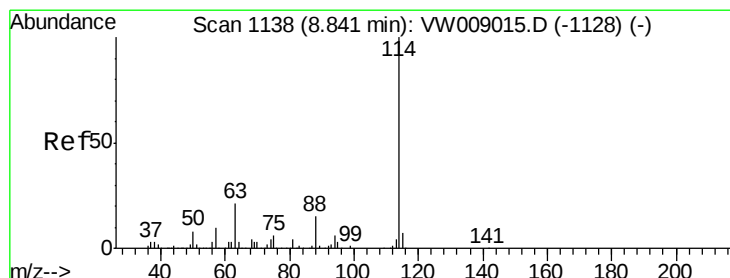
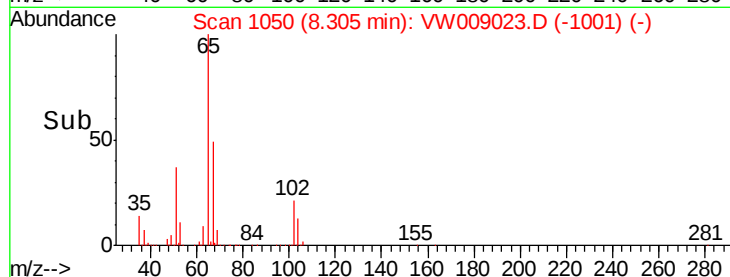
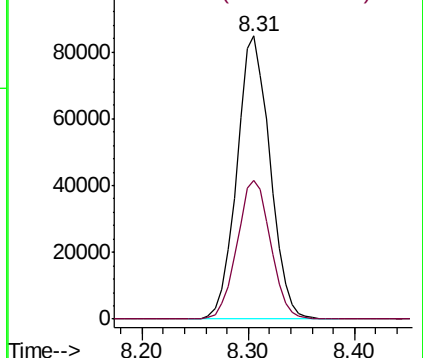
65 100

67 49.8 0.0 102.2



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: VW009023.D

Acq: 06 Mar 2019 18:51

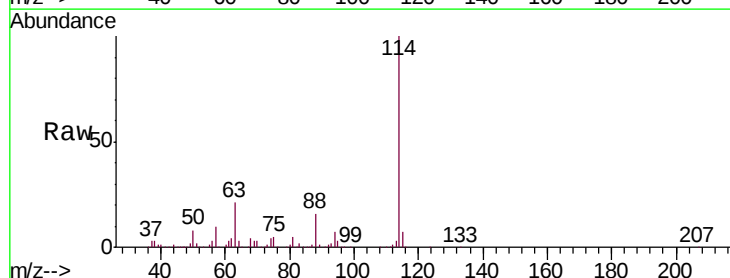
Tgt Ion: 114 Resp: 511736

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

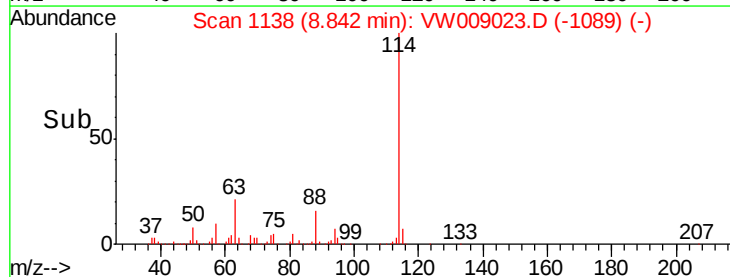
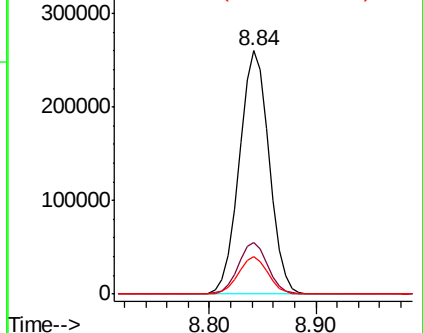
88 15.6 0.0 30.8

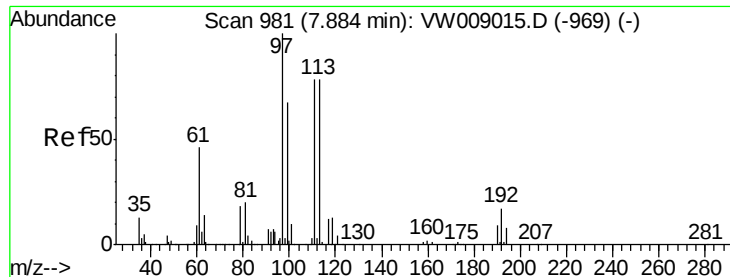


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 50.748 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

Instrument :  
MSVOA\_W  
ClientSampleId :  
Z-2-5

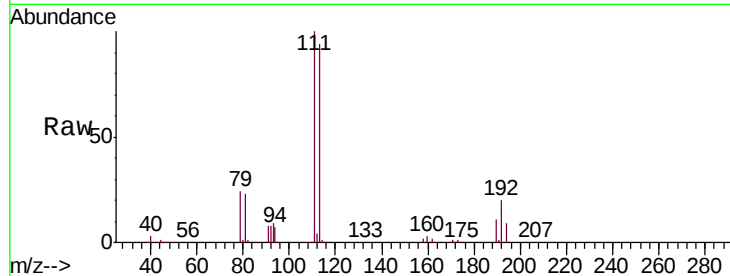
Tgt Ion: 113 Resp: 156332

Ion Ratio Lower Upper

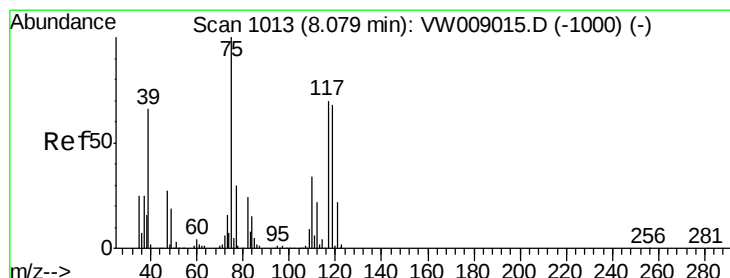
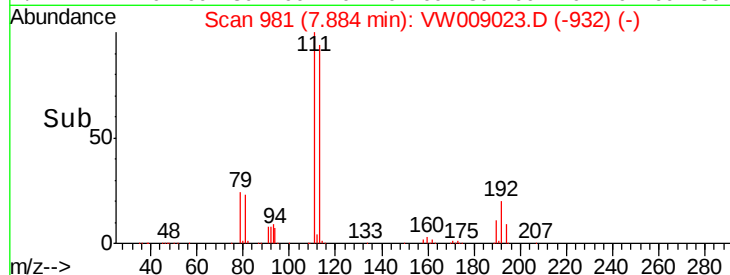
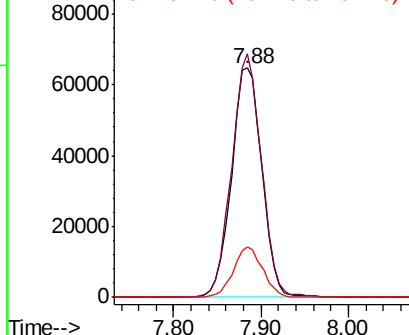
113 100

111 103.5 80.5 120.7

192 21.2 16.7 25.1



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: 4.876 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

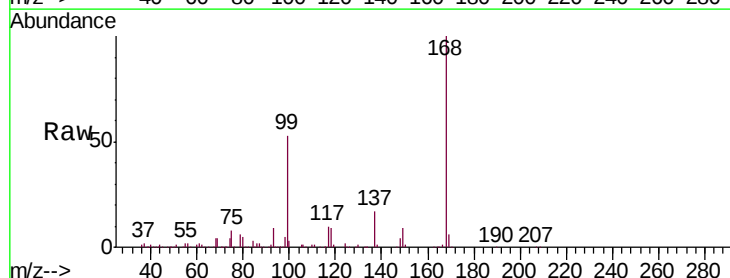
Tgt Ion: 75 Resp: 24813

Ion Ratio Lower Upper

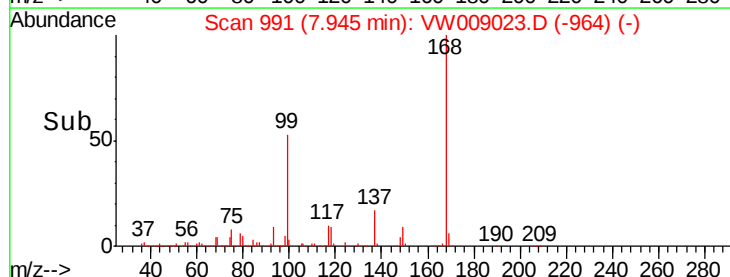
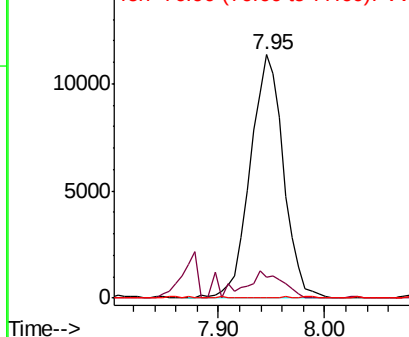
75 100

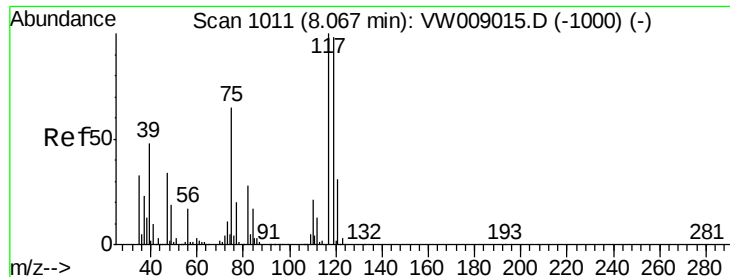
110 10.0 17.3 51.9#

77 0.0 24.8 37.2#



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: 6.004 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

Instrument :

MSVOA\_W

ClientSampleId :

Z-2-5

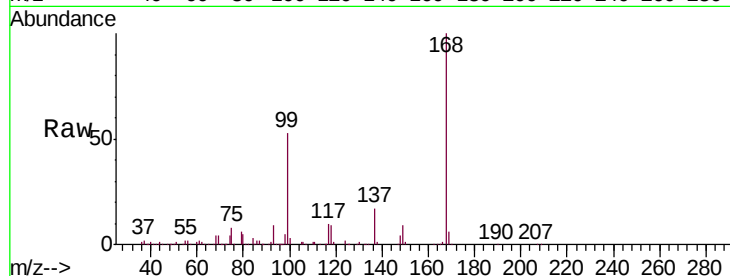
Tgt Ion:117 Resp: 31615

Ion Ratio Lower Upper

117 100

119 5.3 78.4 117.6#

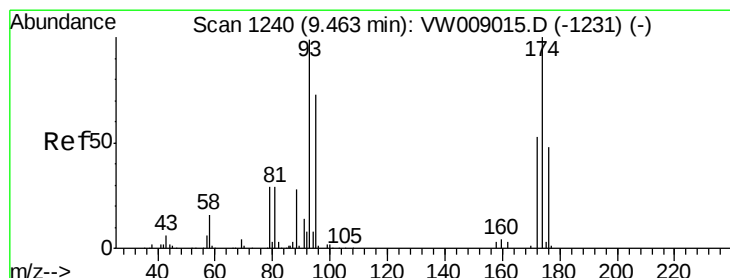
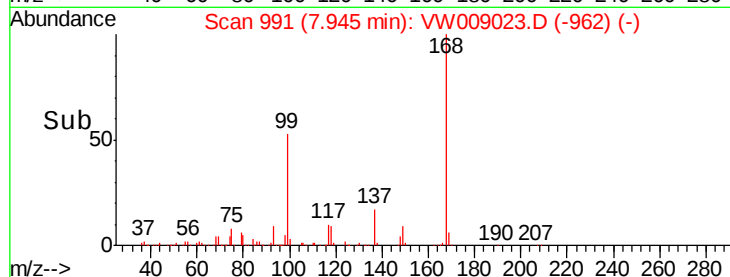
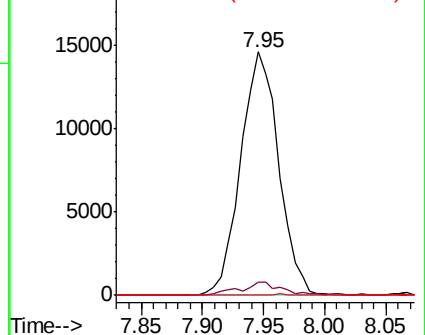
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 1.364 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

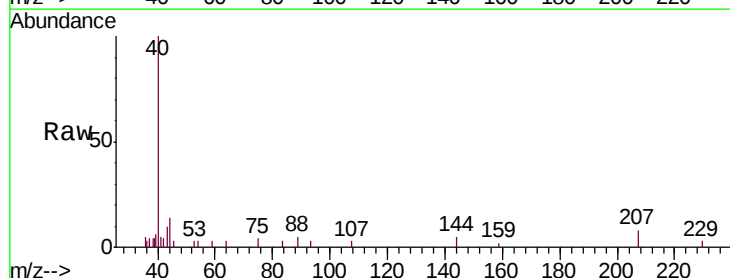
Tgt Ion: 88 Resp: 35

Ion Ratio Lower Upper

88 100

43 325.7 0.0 0.0#

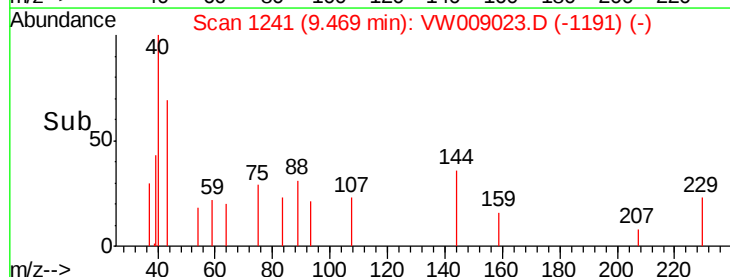
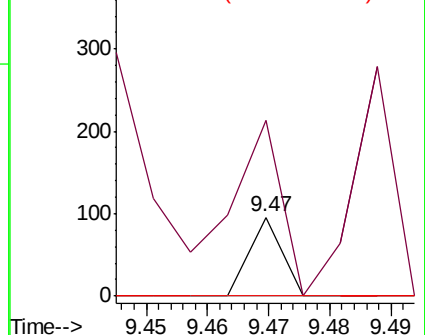
58 0.0 55.0 82.6#

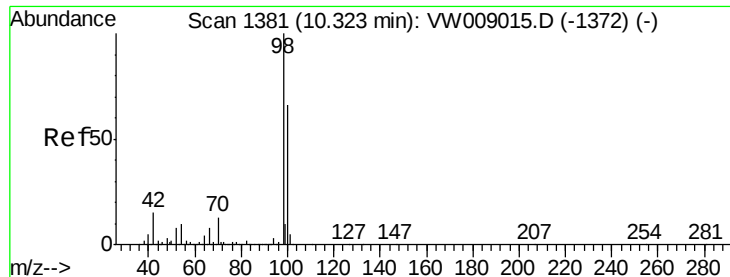


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 46.976 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

Instrument :

MSVOA\_W

ClientSampleId :

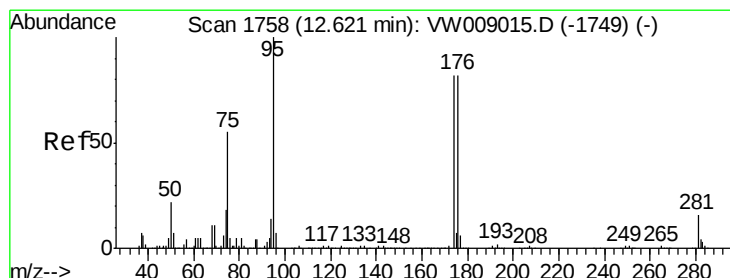
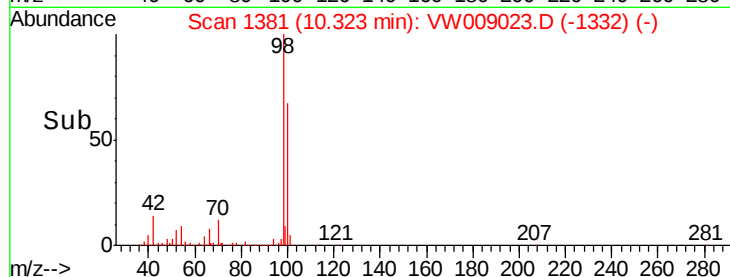
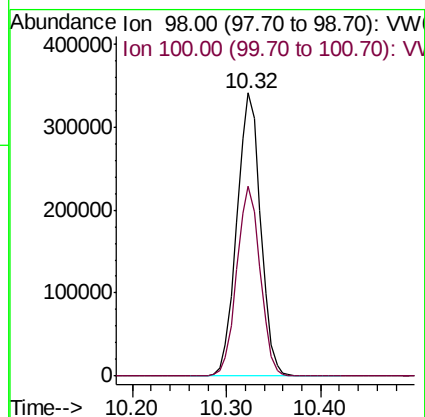
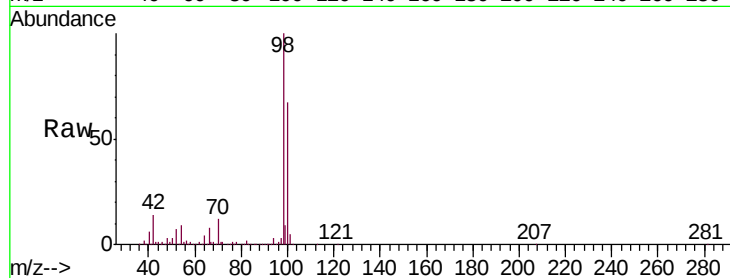
Z-2-5

Tgt Ion: 98 Resp: 594697

Ion Ratio Lower Upper

98 100

100 66.1 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 37.038 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

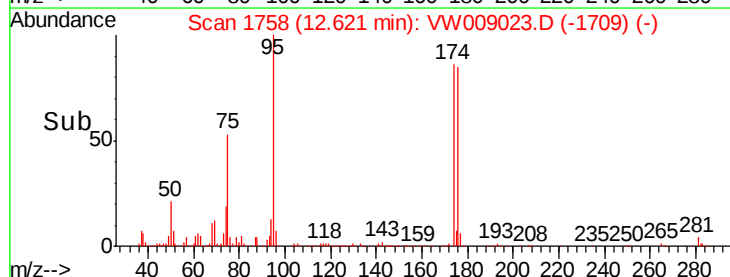
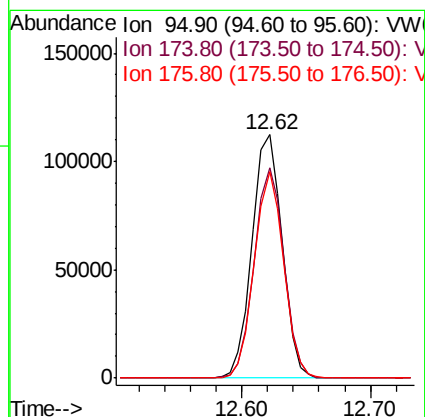
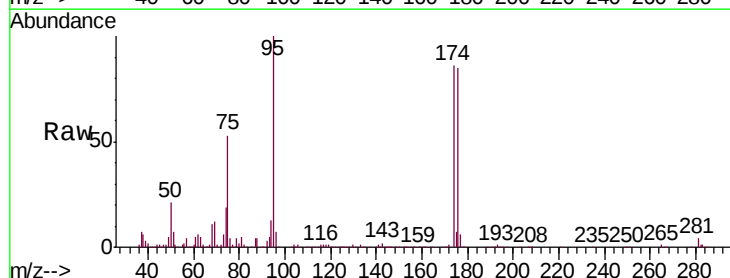
Tgt Ion: 95 Resp: 181087

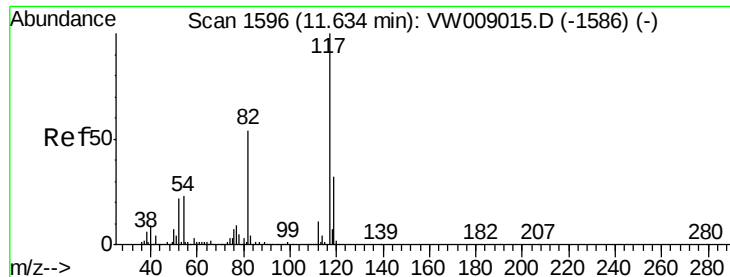
Ion Ratio Lower Upper

95 100

174 85.4 0.0 165.8

176 82.6 0.0 159.8

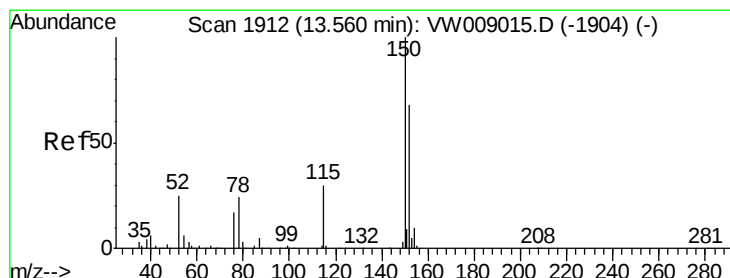
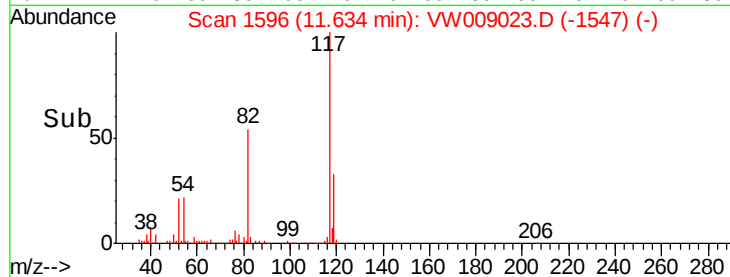
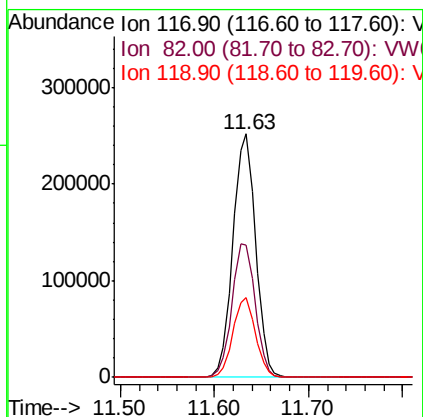
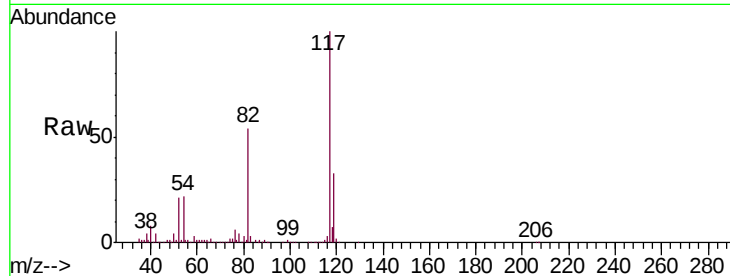




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

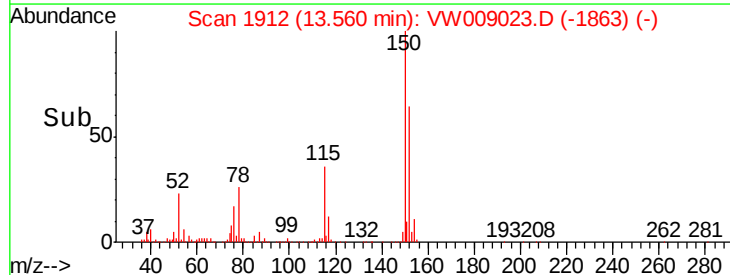
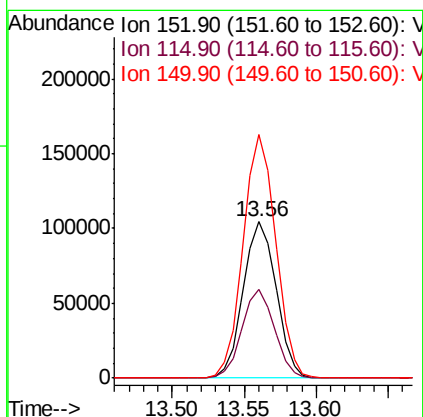
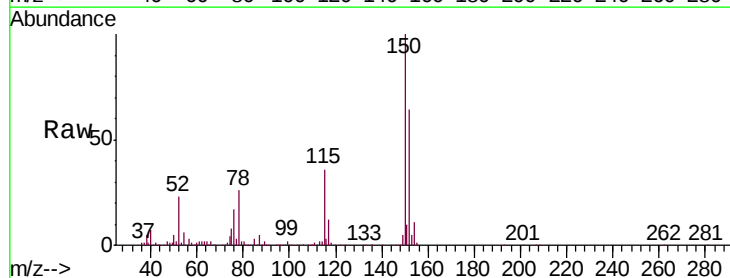
Instrument :  
MSVOA\_W  
ClientSampleId :  
Z-2-5

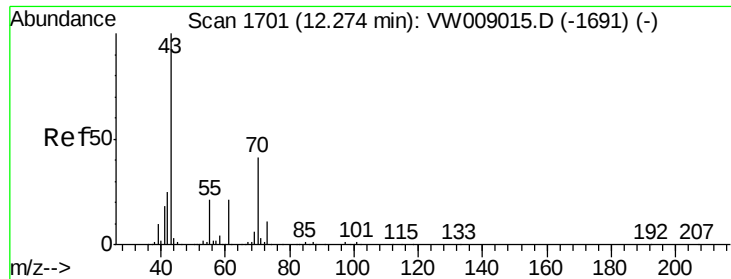
Tgt Ion:117 Resp: 422279  
Ion Ratio Lower Upper  
117 100  
82 54.4 43.4 65.2  
119 32.8 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

Tgt Ion:152 Resp: 166045  
Ion Ratio Lower Upper  
152 100  
115 55.4 29.3 87.8  
150 153.9 0.0 348.6

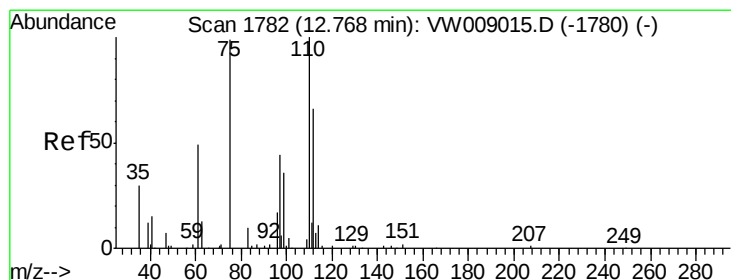
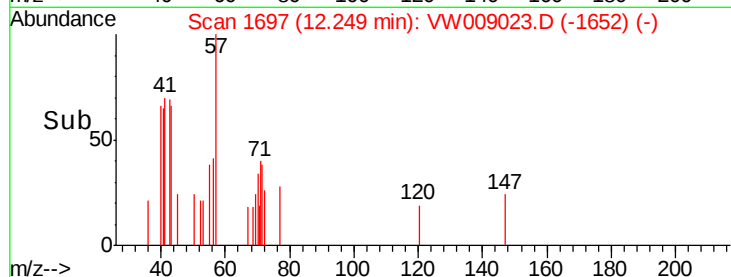
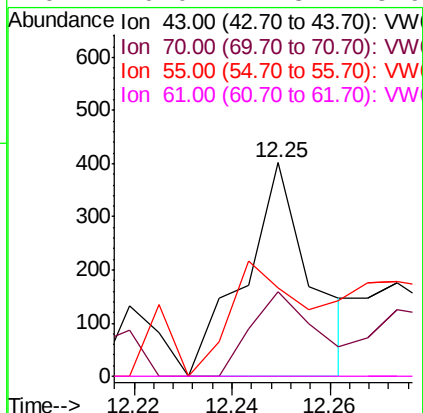
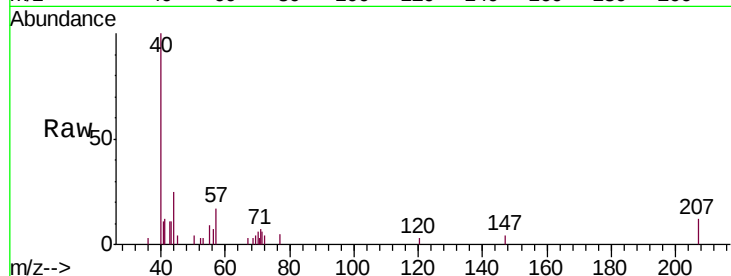




#74  
N-amyI acetate  
Concen: 4.331 ug/l  
RT: 12.25 min Scan# 1697  
Delta R.T. -0.02 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

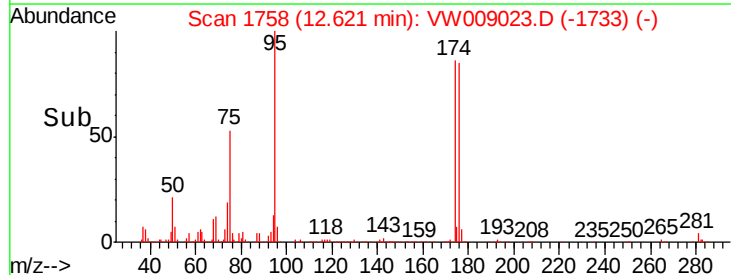
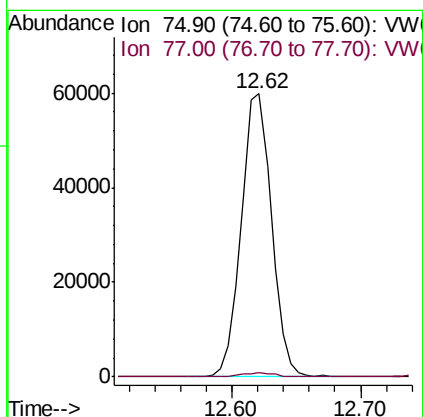
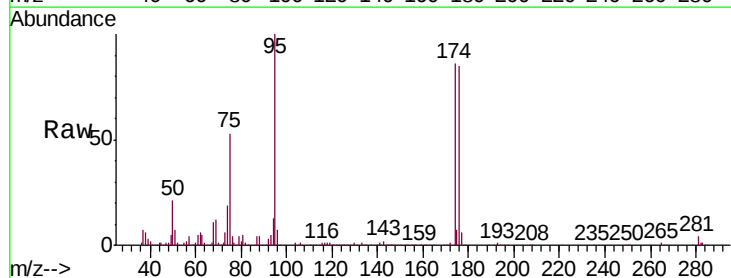
Instrument :  
MSVOA\_W  
ClientSampled :  
Z-2-5

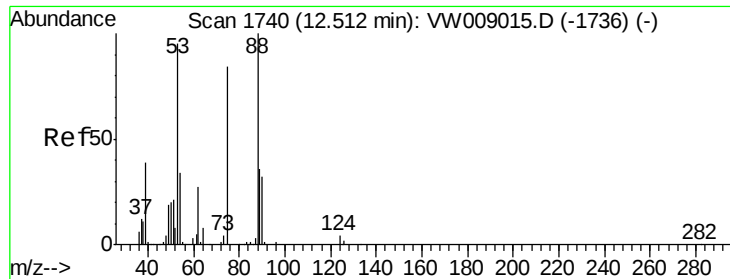
Tgt Ion: 43 Resp: 378  
Ion Ratio Lower Upper  
43 100  
70 39.2 31.2 46.8  
55 55.6 18.0 27.0#  
61 0.0 17.3 25.9#



#76  
1,2,3-Trichloropropane  
Concen: 73.808 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.15 min  
Lab File: VW009023.D  
Acq: 06 Mar 2019 18:51

Tgt Ion: 75 Resp: 97131  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 149.405 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009023.D

Acq: 06 Mar 2019 18:51

Instrument :

MSVOA\_W

ClientSampleId :

Z-2-5

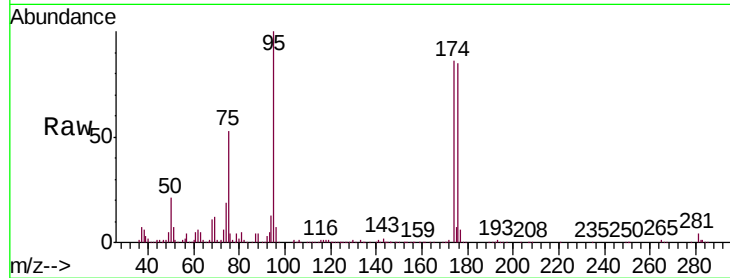
Tgt Ion: 75 Resp: 97131

Ion Ratio Lower Upper

75 100

53 0.2 88.5 132.7#

89 0.0 36.3 54.5#



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

