

Data File : VW012973.D  
Acq On : 14 Sep 2019 00:25  
Operator : SY/VA  
Sample : K4719-12  
Misc : 6.36G/5ML/MSVOA\_W/SOIL  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T4-2-(1.5)-HELLGATE

Quant Time: Sep 14 04:26:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 13 17:26:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 173965   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 256109   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 202269   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 72990    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 90084    | 56.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.14% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 76134    | 54.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.58% |      |
| 50) Toluene-d8            | 10.32  | 98  | 296706   | 54.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.12% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 82898    | 42.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 84.78%  |      |

Target Compounds

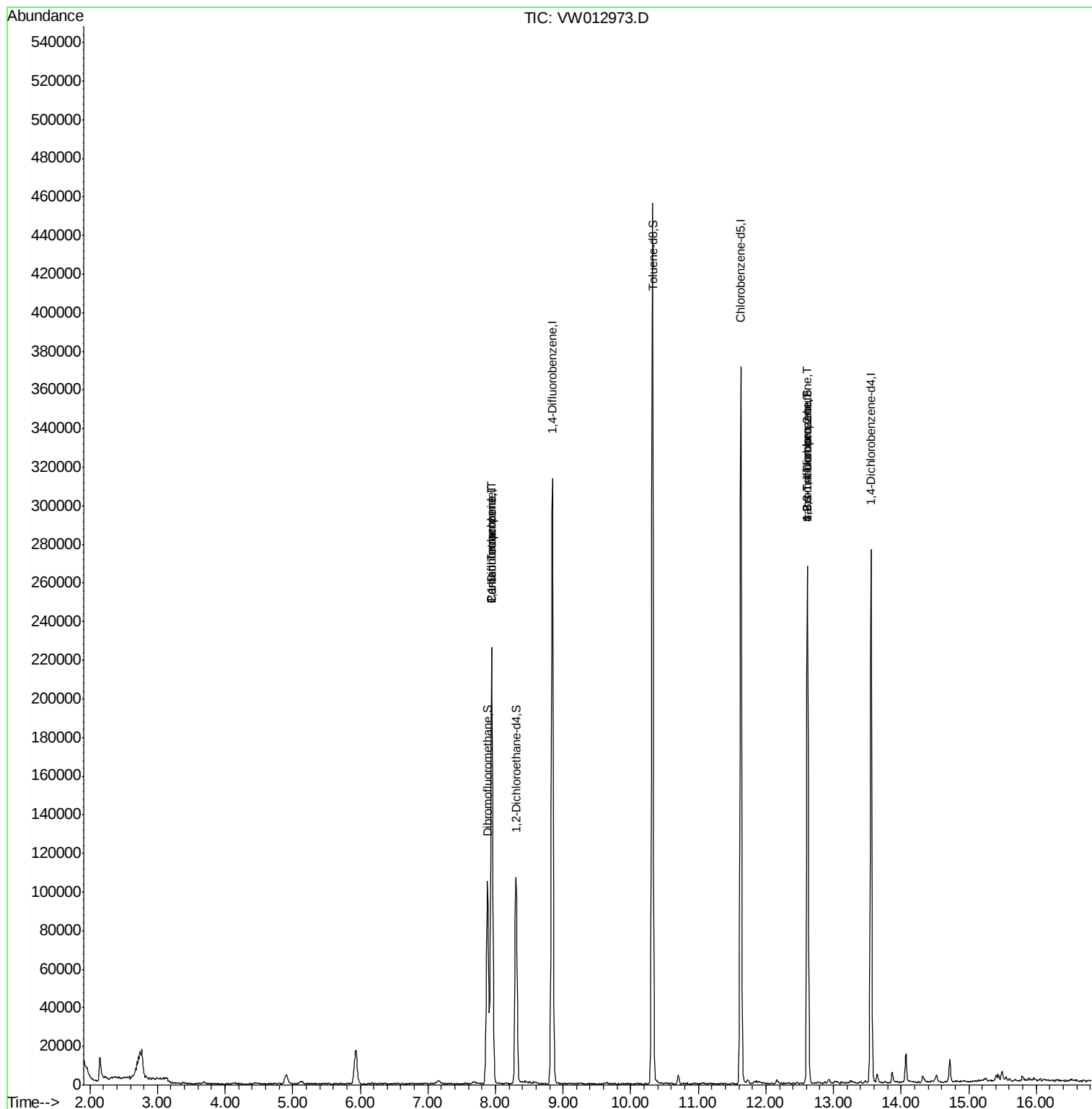
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 3) Chloromethane               | 2.20  | 50  | 185   | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 5.19  | 59  | 167   | Below Cal | #      | 72     |
| 13) Acrolein                   | 3.90  | 56  | 22    | Below Cal | #      | 15     |
| 16) Acetone                    | 4.10  | 43  | 223   | Below Cal | #      | 47     |
| 20) Methylene Chloride         | 4.90  | 84  | 3276  | Below Cal | #      | 78     |
| 26) 2,2-Dichloropropane        | 7.16  | 77  | 25    | Below Cal | #      | 55     |
| 31) Cyclohexane                | 7.94  | 56  | 4017  | Below Cal | #      | 3      |
| 36) 1,1-Dichloropropene        | 7.94  | 75  | 13181 | 6.441     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.94  | 117 | 16306 | 7.775     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 43345 | 67.797    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 43345 | 153.796   | ug/l # | 7      |

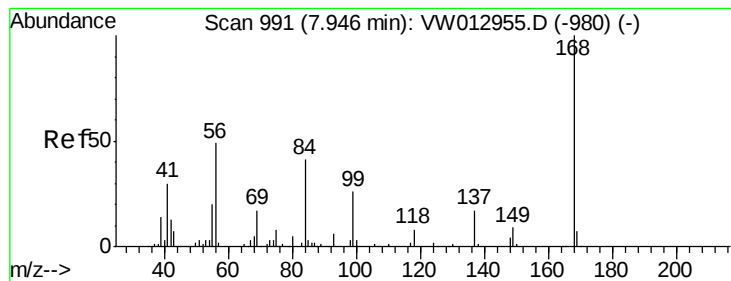
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

Instrument :

MSVOA\_W

ClientSampleId :

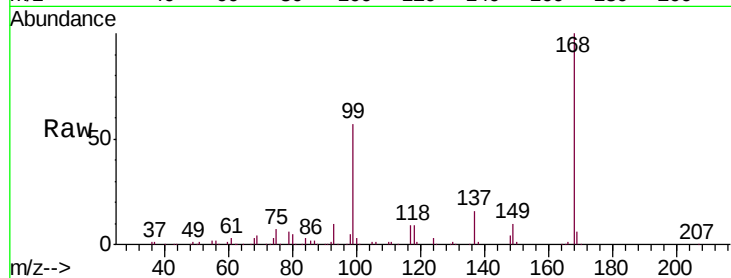
T4-2-(1.5)-HELLGATE

Tgt Ion:168 Resp: 173965

Ion Ratio Lower Upper

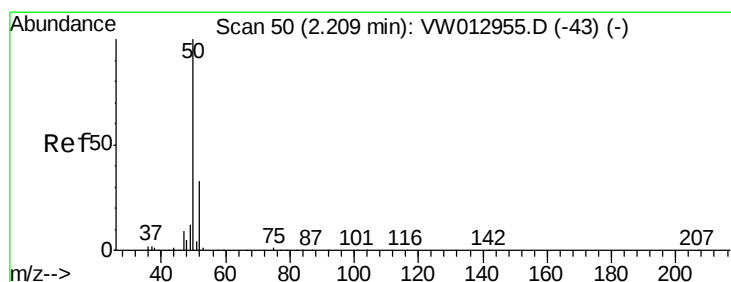
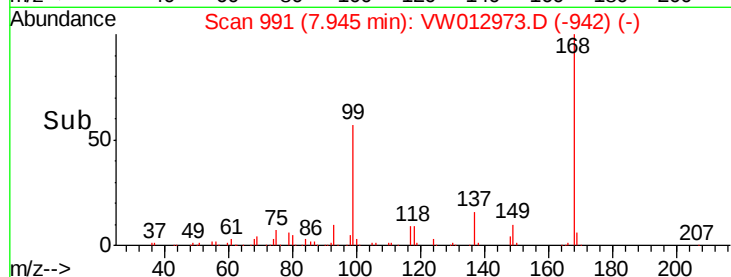
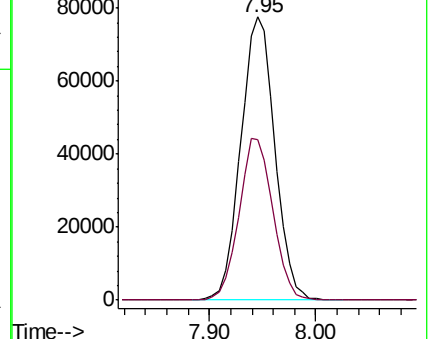
168 100

99 56.6 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW012973.D

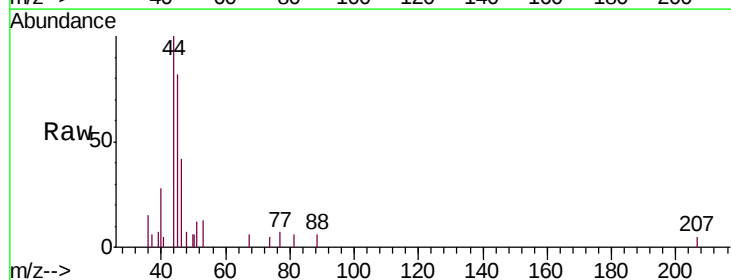
Acq: 14 Sep 2019 00:25

Tgt Ion: 50 Resp: 185

Ion Ratio Lower Upper

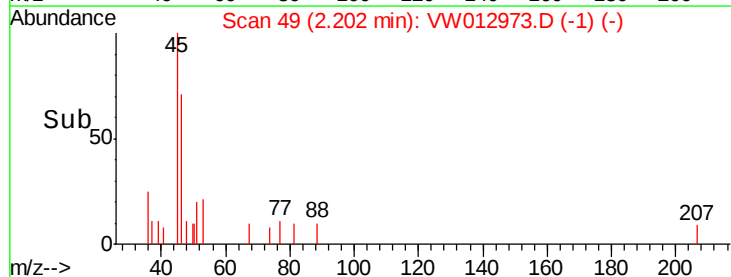
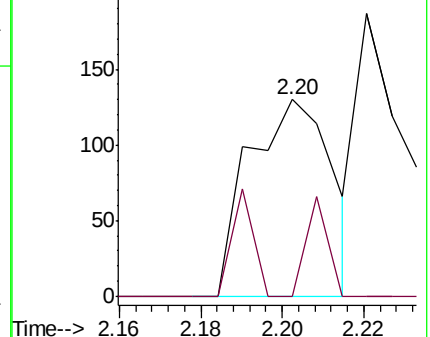
50 100

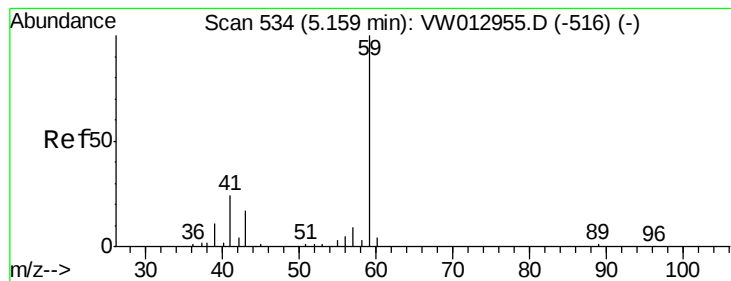
52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



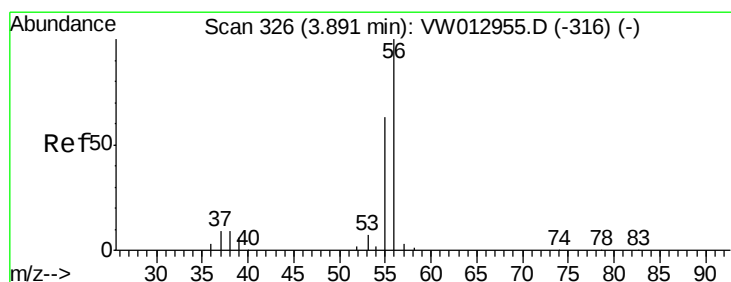
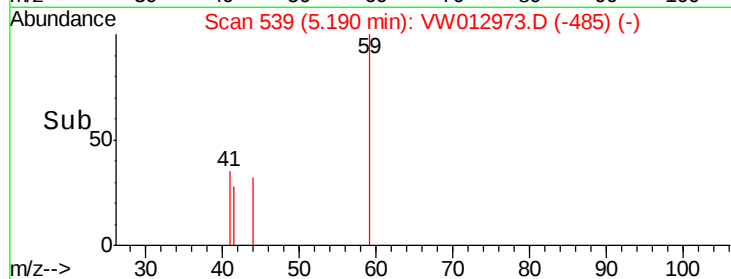
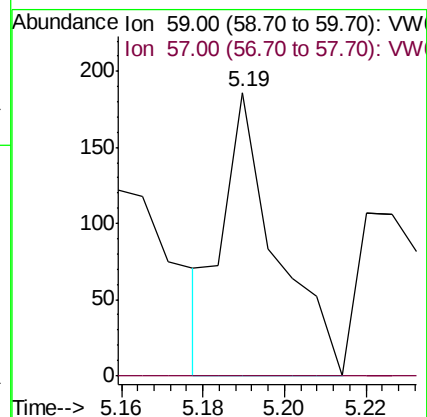
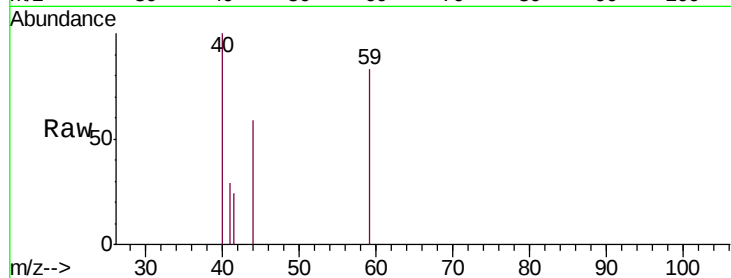


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.19 min Scan# 539  
 Delta R.T. 0.03 min  
 Lab File: VW012973.D  
 Acq: 14 Sep 2019 00:25

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T4-2-(1.5)-HELLGATE

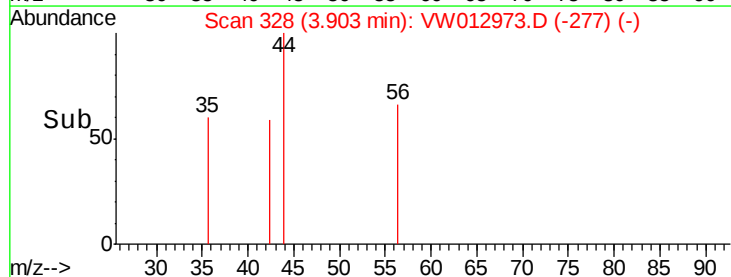
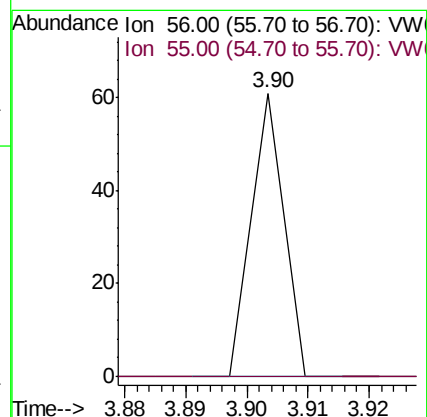
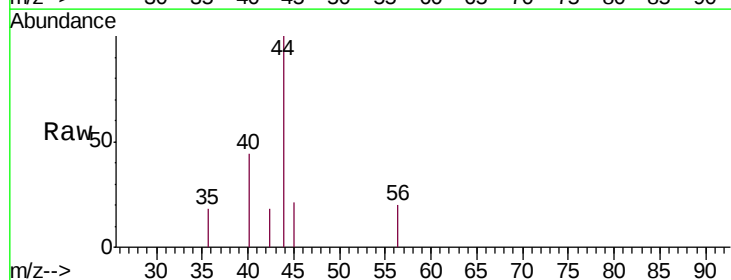
Tgt Ion: 59 Resp: 167  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.5 12.7#

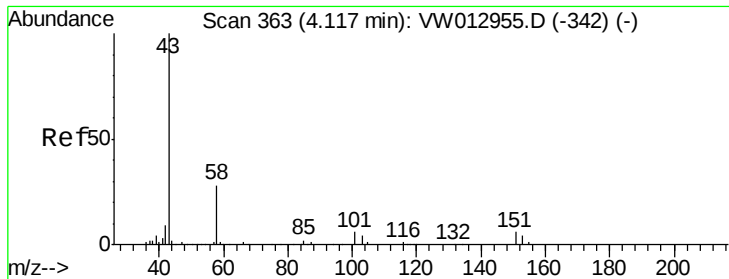


#13

Acrolein  
 Concen: Below Cal  
 RT: 3.90 min Scan# 328  
 Delta R.T. 0.01 min  
 Lab File: VW012973.D  
 Acq: 14 Sep 2019 00:25

Tgt Ion: 56 Resp: 22  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 55.8 83.8#





#16

Acetone

Concen: Below Cal

RT: 4.10 min Scan# 360

Delta R.T. -0.02 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

Instrument :

MSVOA\_W

ClientSampleId :

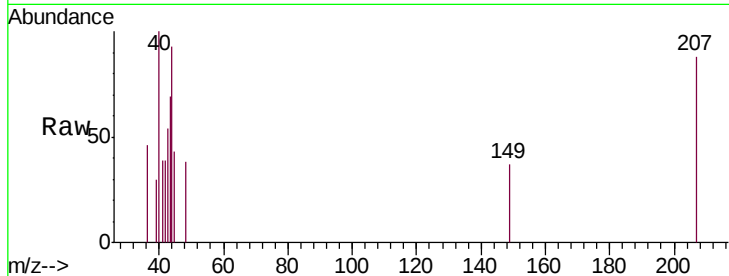
T4-2-(1.5)-HELLGATE

Tgt Ion: 43 Resp: 223

Ion Ratio Lower Upper

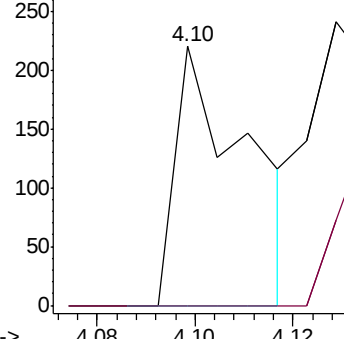
43 100

58 0.0 22.3 33.5#

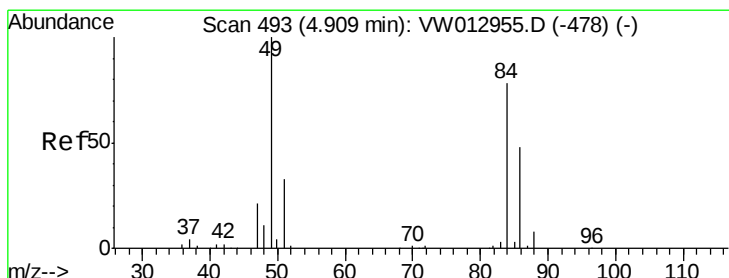
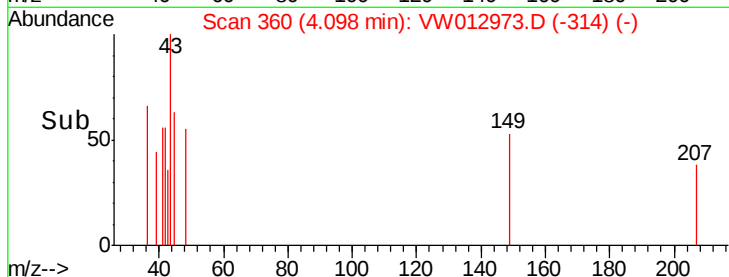


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 491

Delta R.T. -0.01 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

Tgt Ion: 84 Resp: 3276

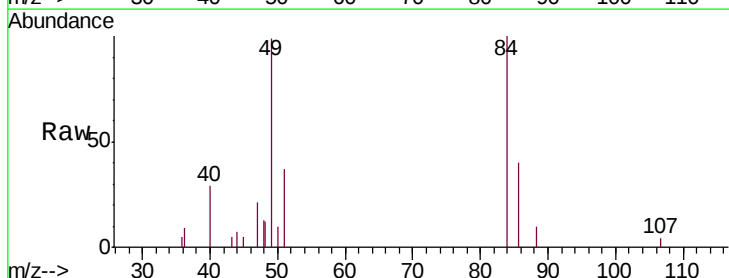
Ion Ratio Lower Upper

84 100

49 99.5 102.0 153.0#

51 37.1 34.0 51.0

86 39.7 48.5 72.7#

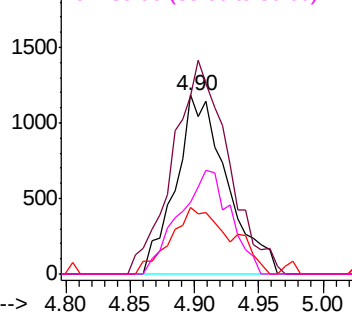


Abundance Ion 83.90 (83.60 to 84.60): VW

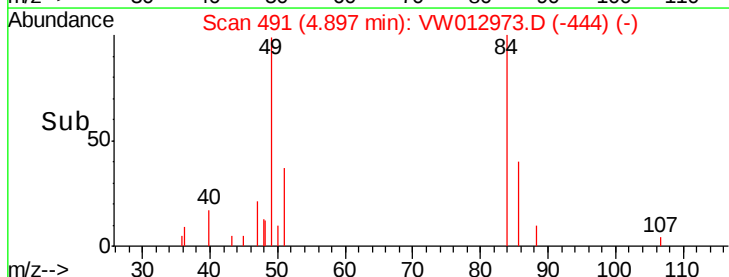
Ion 48.90 (48.60 to 49.60): VW

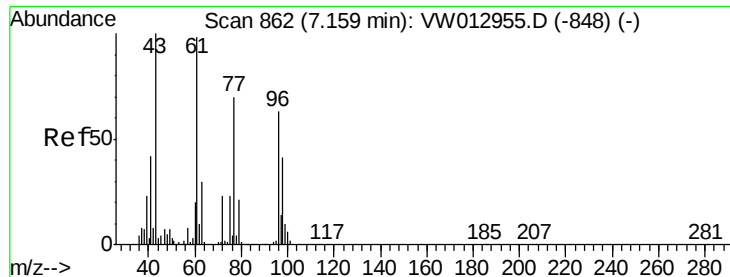
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



Time-->





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.16 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

Instrument :

MSVOA\_W

ClientSampleId :

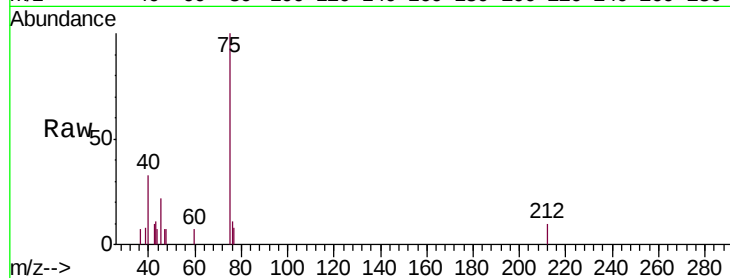
T4-2-(1.5)-HELLGATE

Tgt Ion: 77 Resp: 25

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.16

60

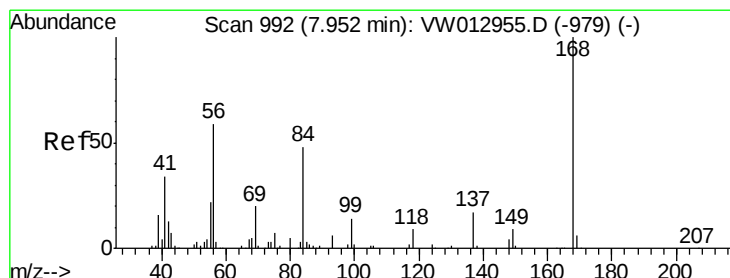
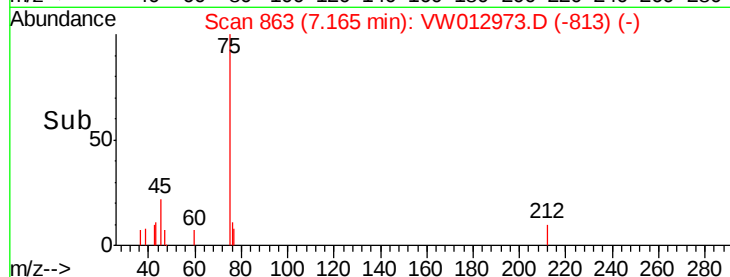
40

20

0

7.15 7.16 7.17 7.18

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

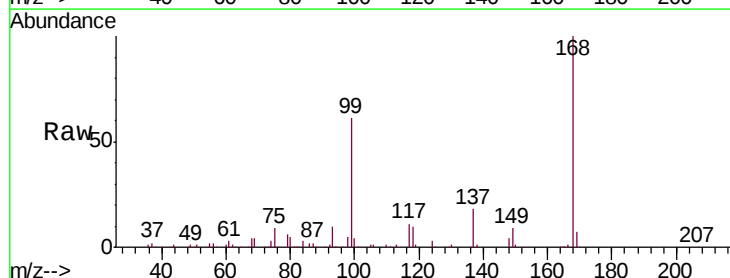
Tgt Ion: 56 Resp: 4017

Ion Ratio Lower Upper

56 100

69 178.2 27.0 40.6#

84 112.8 66.2 99.2#



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

4000

3000

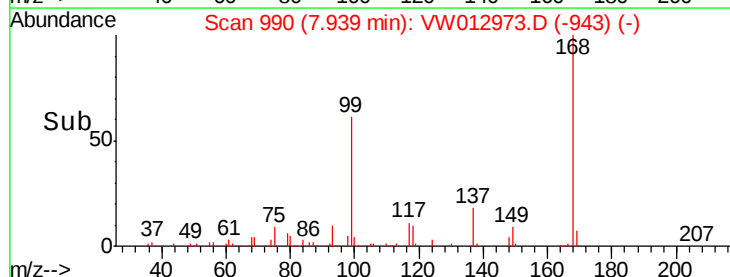
2000

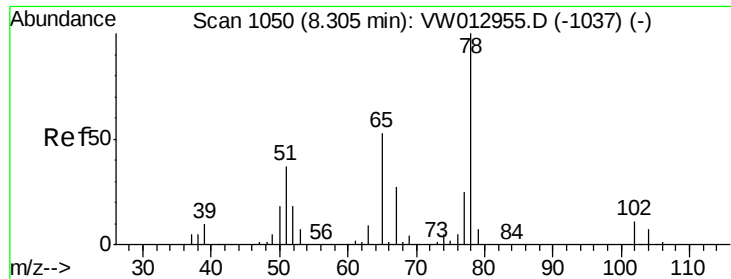
1000

0

7.85 7.90 7.95 8.00

Time-->

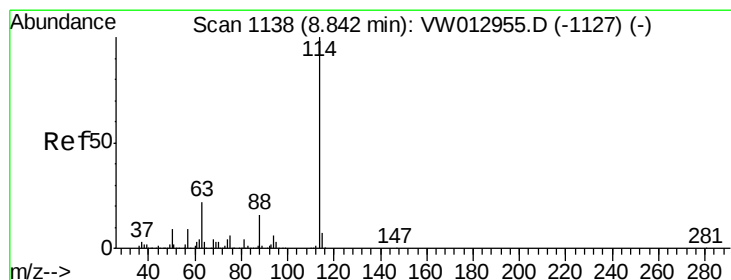
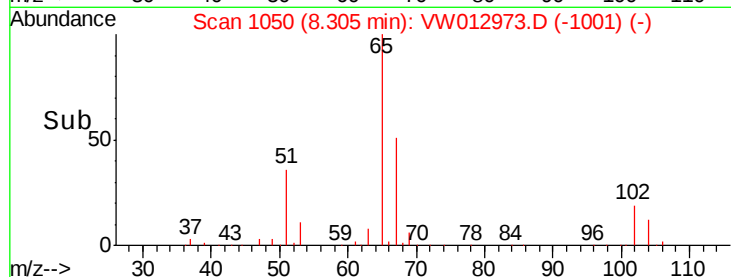
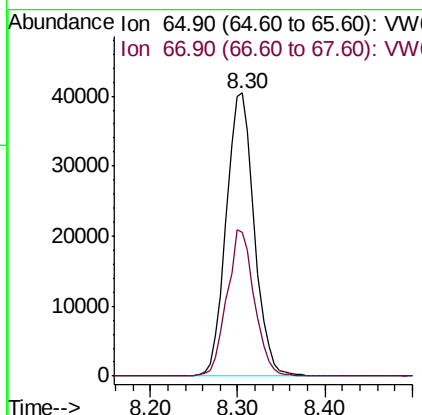
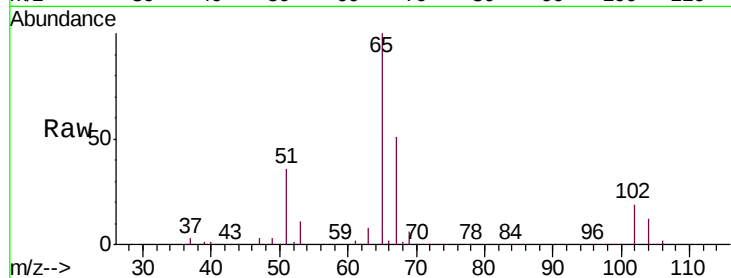




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.068 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012973.D  
 Acq: 14 Sep 2019 00:25

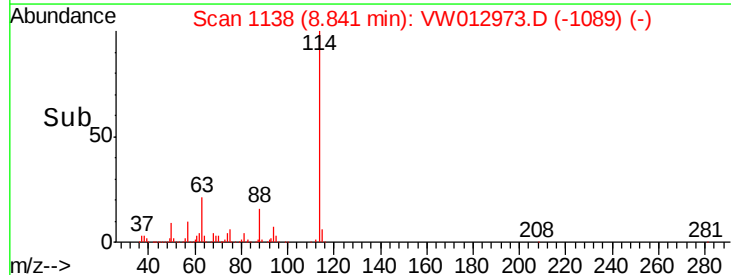
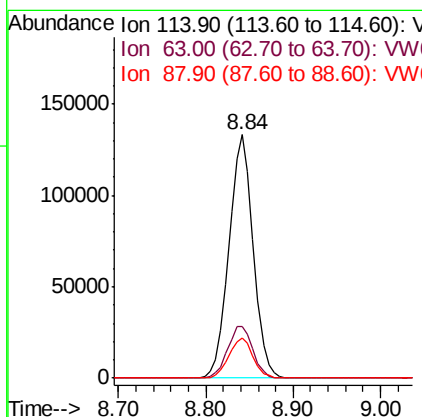
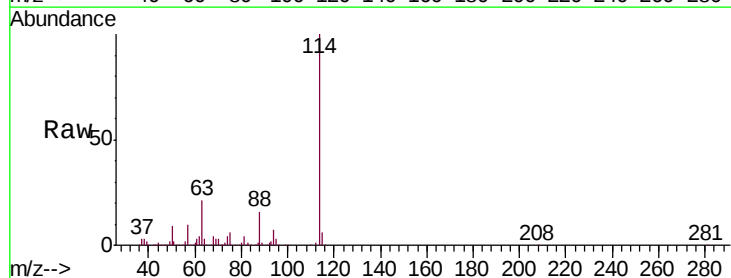
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T4-2-(1.5)-HELLGATE

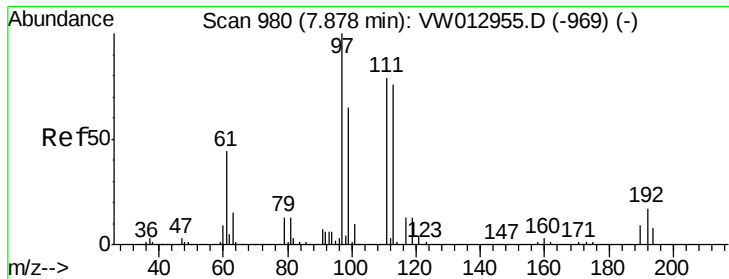
Tgt Ion: 65 Resp: 90084  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 101.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012973.D  
 Acq: 14 Sep 2019 00:25

Tgt Ion: 114 Resp: 256109  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 43.4  
 88 16.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 54.785 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

Instrument :

MSVOA\_W

ClientSampleId :

T4-2-(1.5)-HELLGATE

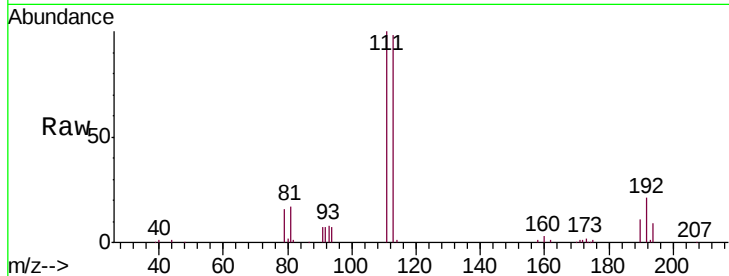
Tgt Ion:113 Resp: 76134

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

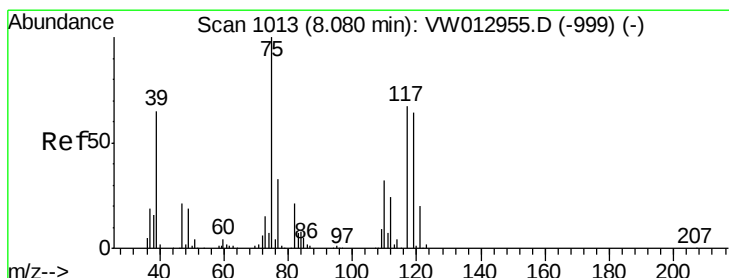
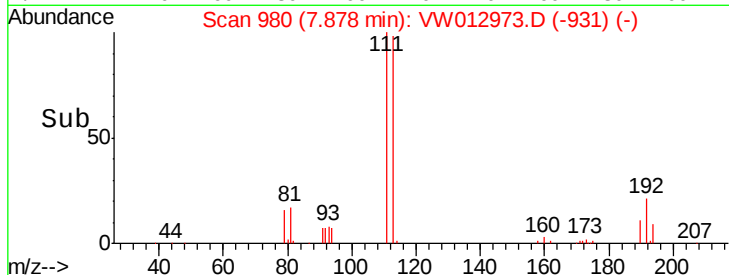
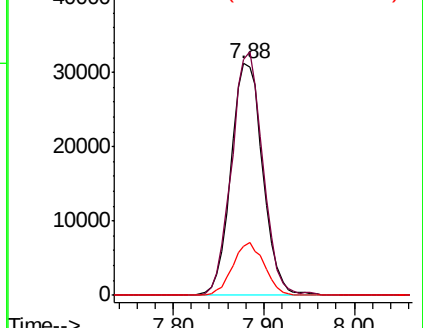
192 22.4 17.8 26.8



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: 6.441 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

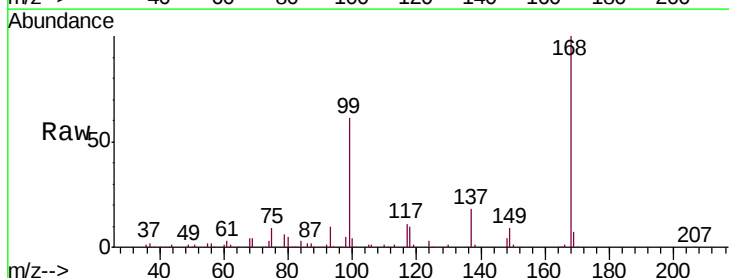
Tgt Ion: 75 Resp: 13181

Ion Ratio Lower Upper

75 100

110 10.9 16.4 49.1#

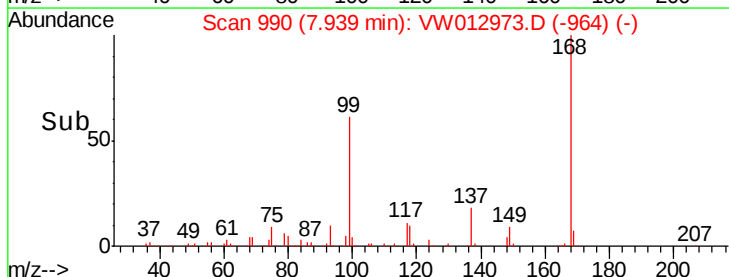
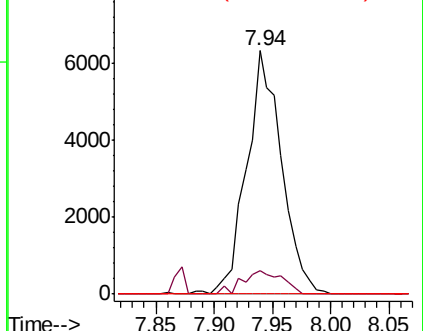
77 0.0 25.1 37.7#

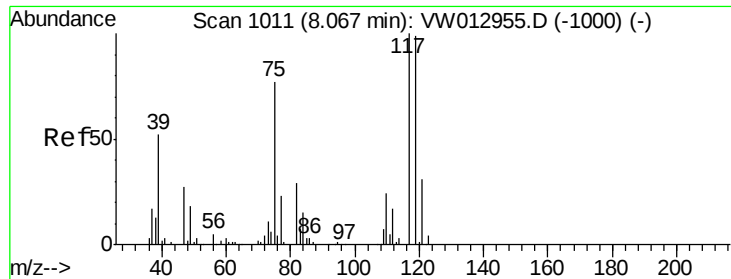


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

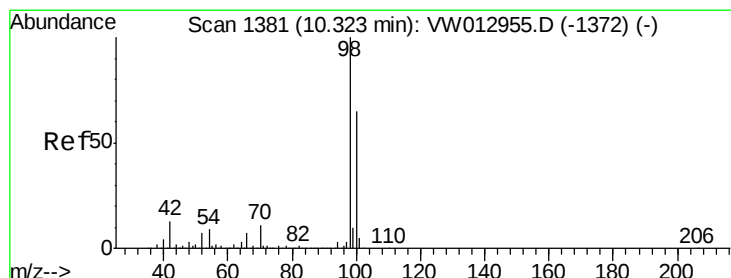
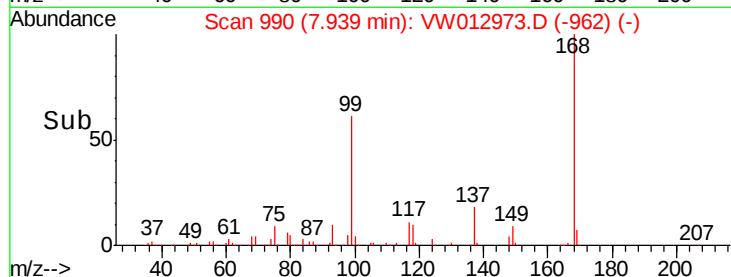
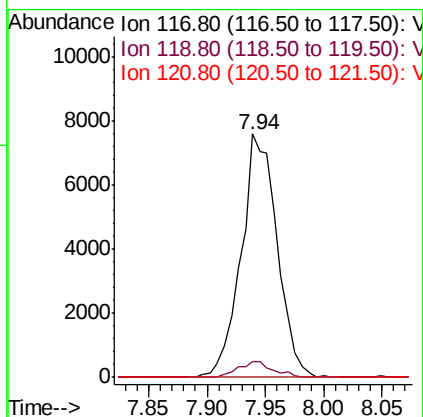
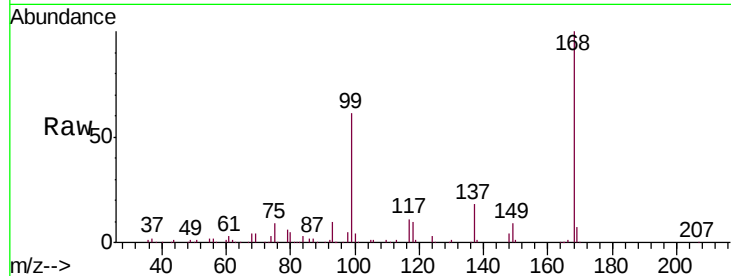




#38  
Carbon Tetrachloride  
Concen: 7.775 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.13 min  
Lab File: VW012973.D  
Acq: 14 Sep 2019 00:25

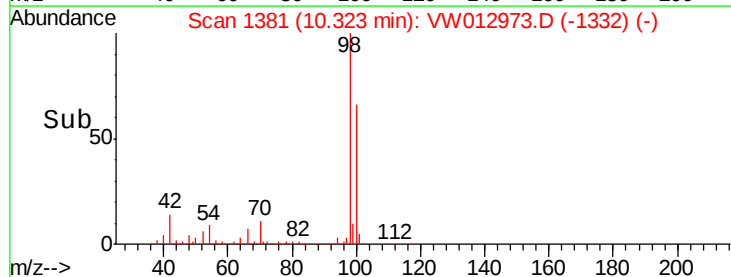
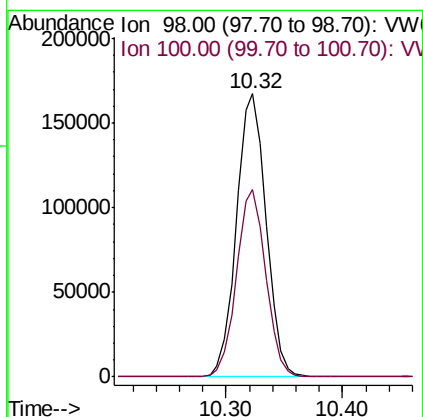
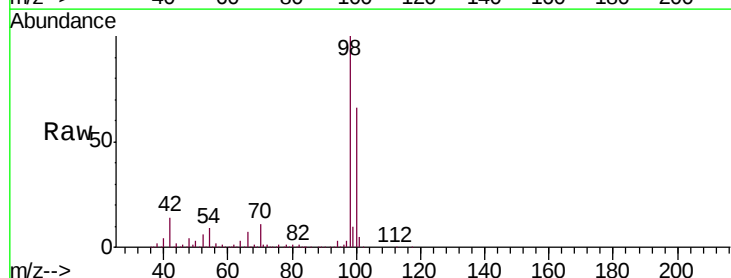
Instrument :  
MSVOA\_W  
ClientSampleId :  
T4-2-(1.5)-HELLGATE

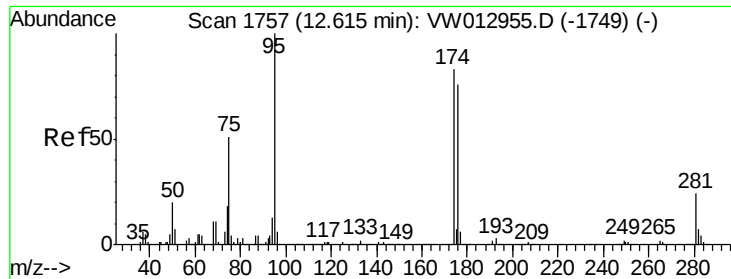
Tgt Ion:117 Resp: 16306  
Ion Ratio Lower Upper  
117 100  
119 6.6 79.4 119.0#  
121 0.0 24.6 36.8#



#50  
Toluene-d8  
Concen: 54.562 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012973.D  
Acq: 14 Sep 2019 00:25

Tgt Ion: 98 Resp: 296706  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.1 78.1

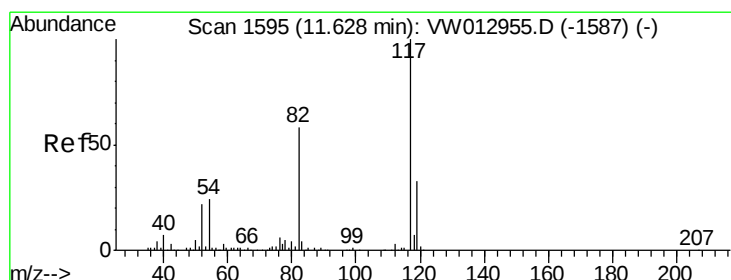
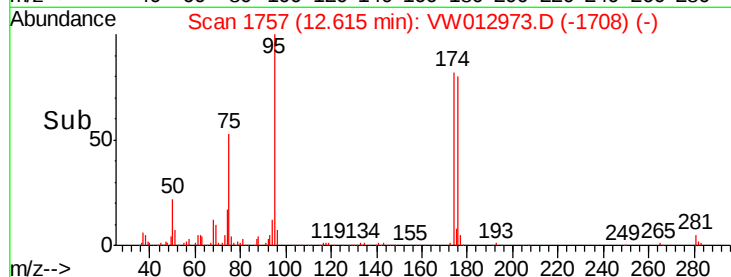
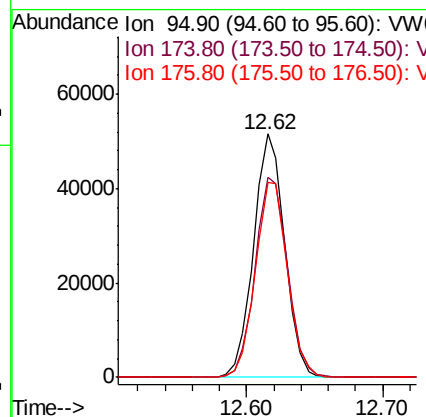
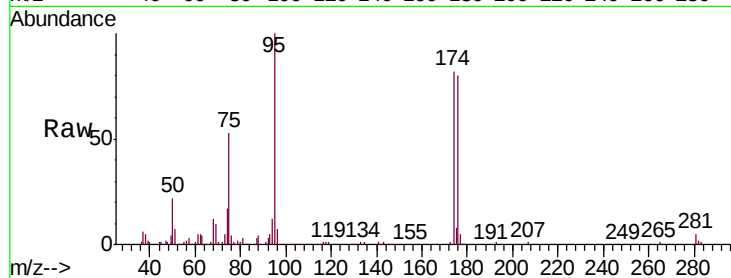




#62  
4-Bromofluorobenzene  
Concen: 42.395 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012973.D  
Acq: 14 Sep 2019 00:25

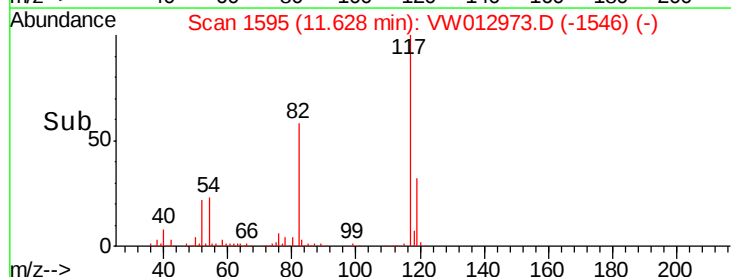
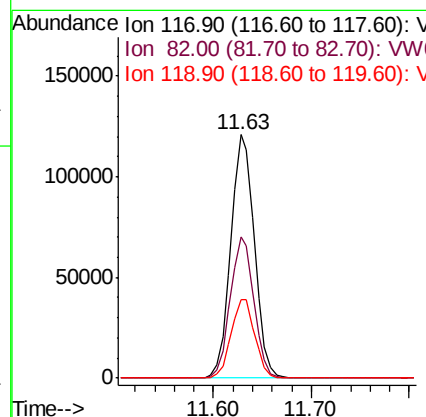
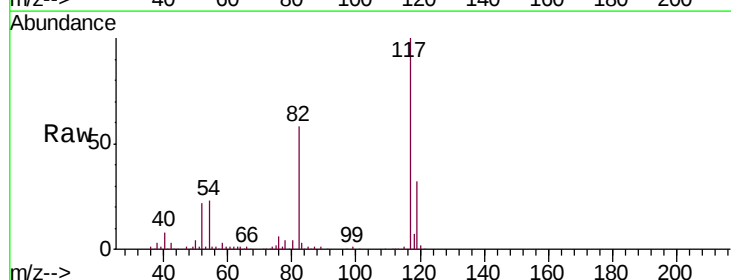
Instrument :  
MSVOA\_W  
ClientSampleId :  
T4-2-(1.5)-HELLGATE

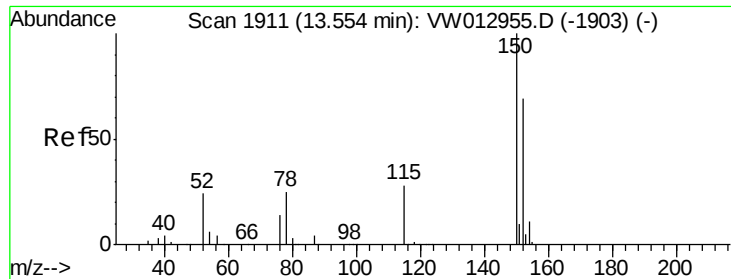
Tgt Ion: 95 Resp: 82898  
Ion Ratio Lower Upper  
95 100  
174 85.2 0.0 170.4  
176 82.7 0.0 164.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW012973.D  
Acq: 14 Sep 2019 00:25

Tgt Ion: 117 Resp: 202269  
Ion Ratio Lower Upper  
117 100  
82 57.8 46.3 69.5  
119 32.5 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

Instrument :

MSVOA\_W

ClientSampleId :

T4-2-(1.5)-HELLGATE

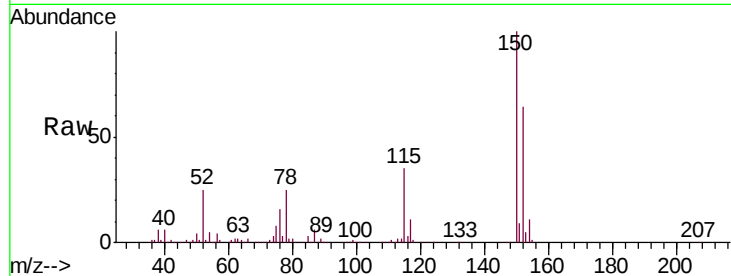
Tgt Ion:152 Resp: 72990

Ion Ratio Lower Upper

152 100

115 57.7 28.8 86.4

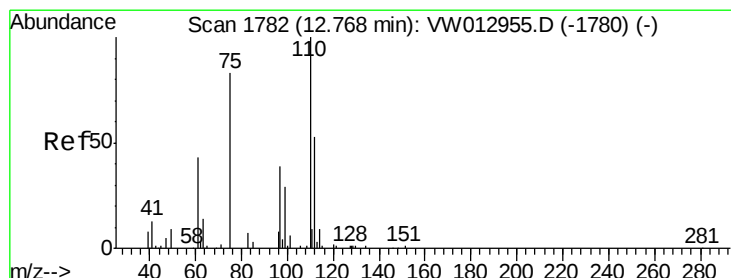
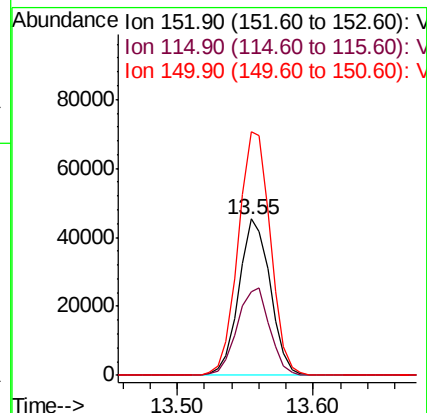
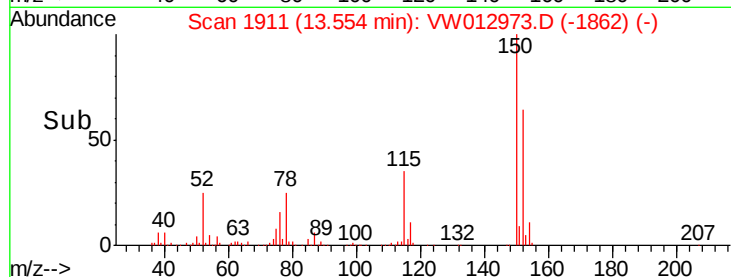
150 159.1 0.0 340.2



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: 67.797 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012973.D

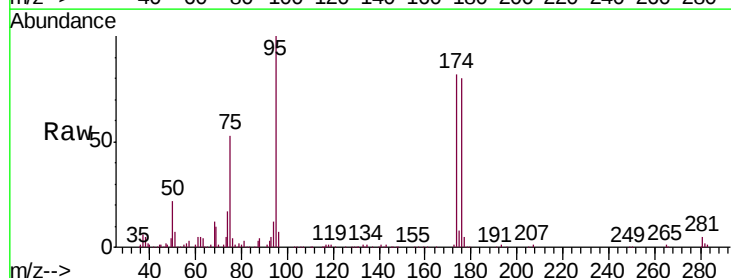
Acq: 14 Sep 2019 00:25

Tgt Ion: 75 Resp: 43345

Ion Ratio Lower Upper

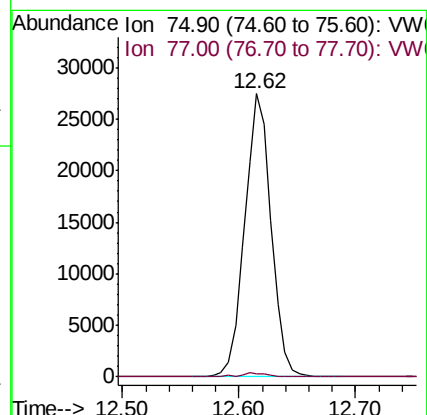
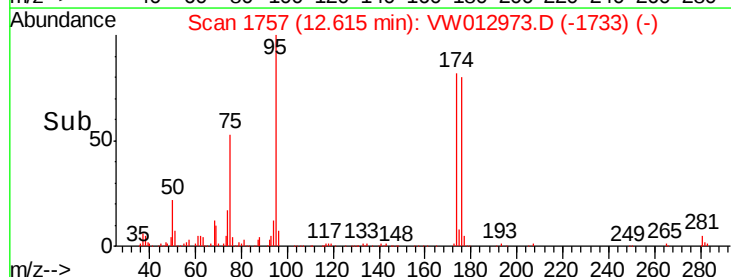
75 100

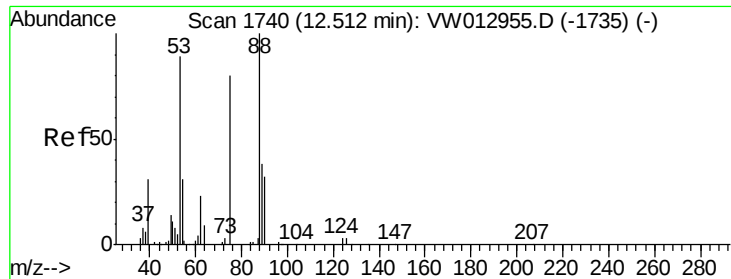
77 1.5 0.0 0.0#



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: 153.796 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012973.D

Acq: 14 Sep 2019 00:25

Instrument :

MSVOA\_W

ClientSampleId :

T4-2-(1.5)-HELLGATE

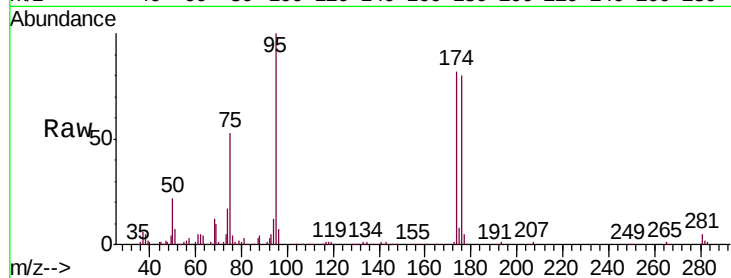
Tgt Ion: 75 Resp: 43345

Ion Ratio Lower Upper

75 100

53 0.3 85.6 128.4#

89 0.0 37.2 55.8#



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

