

Data File : VW012007.D  
Acq On : 19 Aug 2019 23:03  
Operator : SY/VA  
Sample : K4386-02  
Misc : 5.24G/5ML/MSVOA\_W/SOIL  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-E3-(0)

Quant Time: Aug 20 05:15:33 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 303273   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 505742   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 431818   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 164184   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 189972   | 54.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.10% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 152510   | 53.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.50% |      |
| 50) Toluene-d8            | 10.32  | 98  | 627301   | 54.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.00% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 204958   | 49.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.98%  |      |

Target Compounds

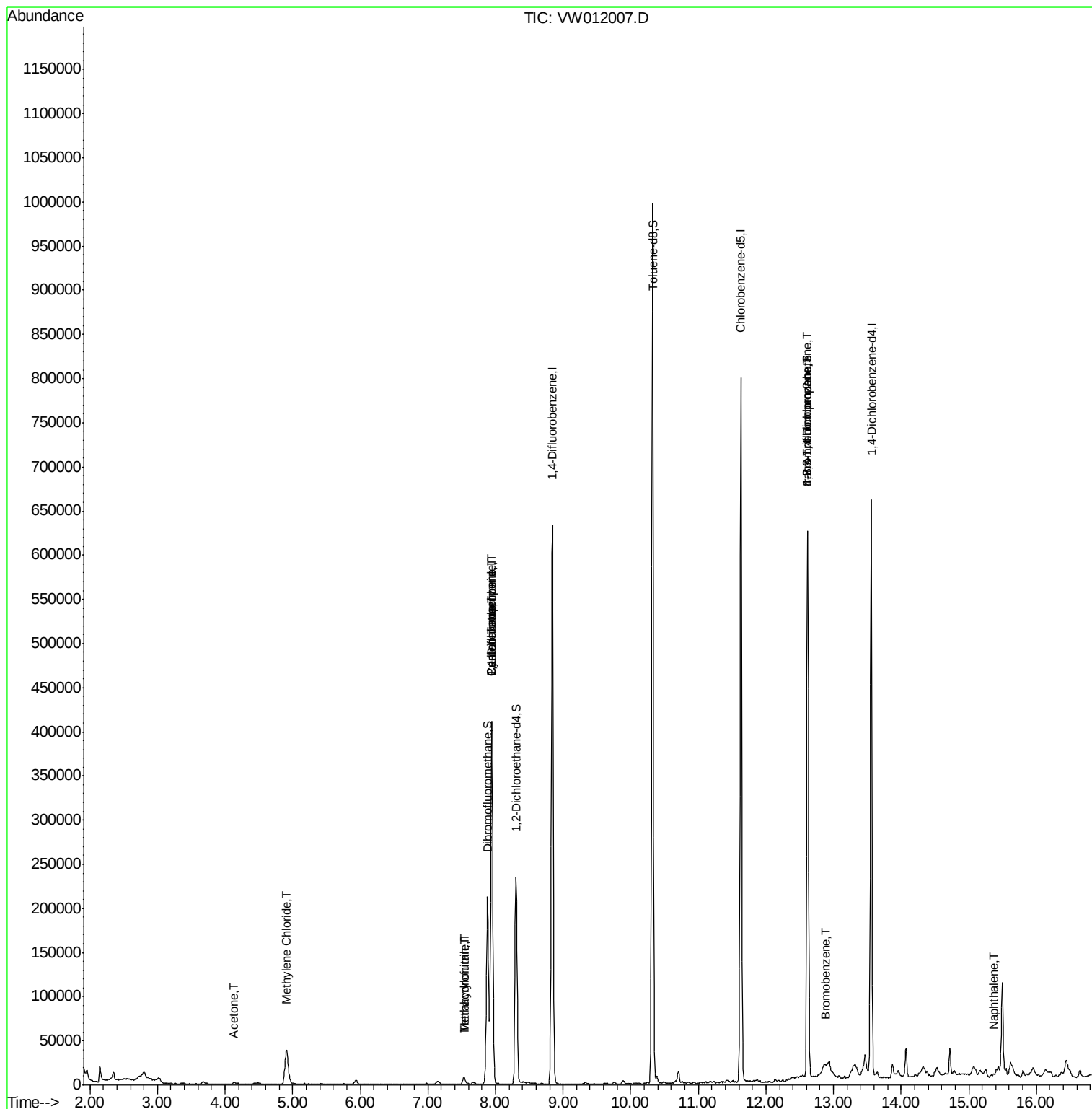
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59  | 311    | Below Cal | #      | 22     |
| 16) Acetone                    | 4.14  | 43  | 4270   | 3.855     | ug/l # | 64     |
| 20) Methylene Chloride         | 4.91  | 84  | 29112  | 7.620     | ug/l   | 96     |
| 29) Tetrahydrofuran            | 7.54  | 42  | 7275   | 8.780     | ug/l   | 96     |
| 31) Cyclohexane                | 7.94  | 56  | 7471   | 1.147     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 25318  | 4.814     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 30537  | 6.783     | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.54  | 41  | 4524   | 2.501     | ug/l # | 56     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 107511 | 61.886    | ug/l # | 100    |
| 77) Bromobenzene               | 12.88 | 156 | 9910   | 3.660     | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 107511 | 142.625   | ug/l # | 6      |
| 95) Naphthalene                | 15.36 | 128 | 2044   | 2.368     | ug/l # | 70     |

(#) = 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: VW012007.D

Acq: 19 Aug 2019 23:03

Instrument :

MSVOA\_W

ClientSampleId :

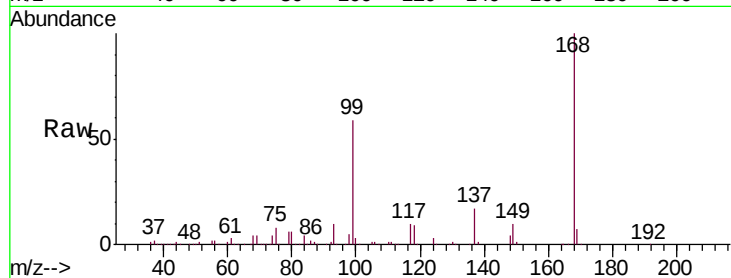
T8-E3-(0)

Tgt Ion:168 Resp: 303273

Ion Ratio Lower Upper

168 100

99 59.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

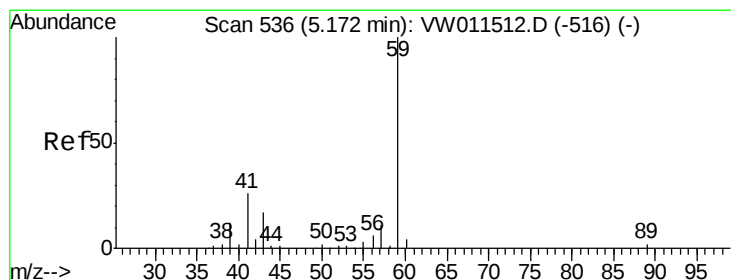
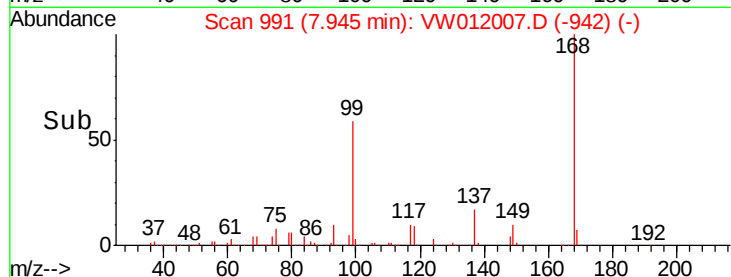
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW012007.D

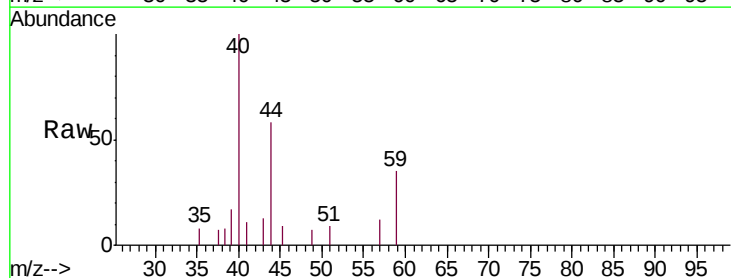
Acq: 19 Aug 2019 23:03

Tgt Ion: 59 Resp: 311

Ion Ratio Lower Upper

59 100

57 39.9 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

250

200

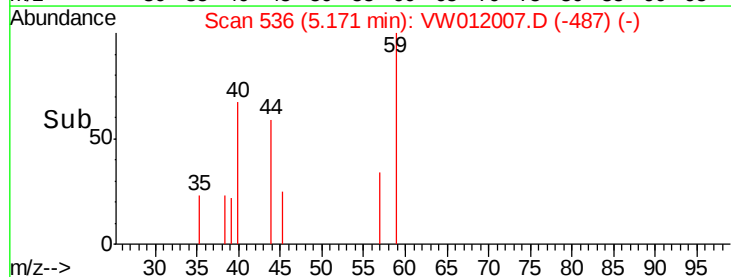
150

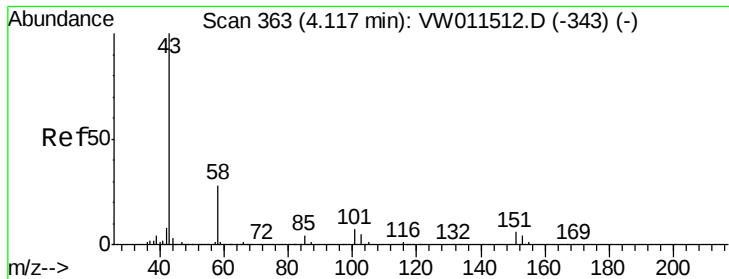
100

50

0

Time--> 5.14 5.16 5.18

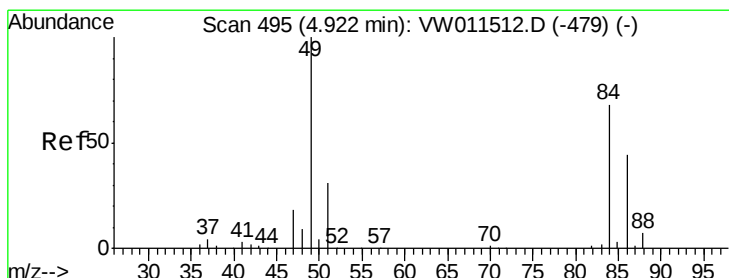
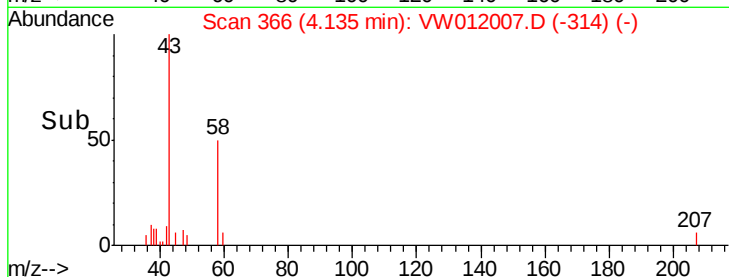
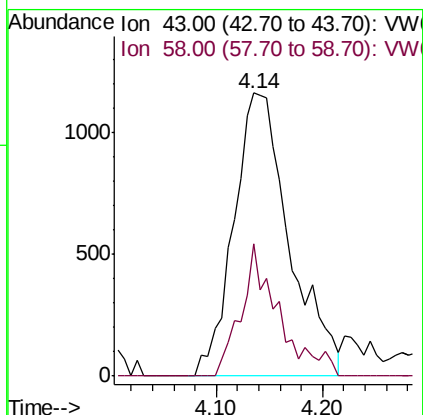
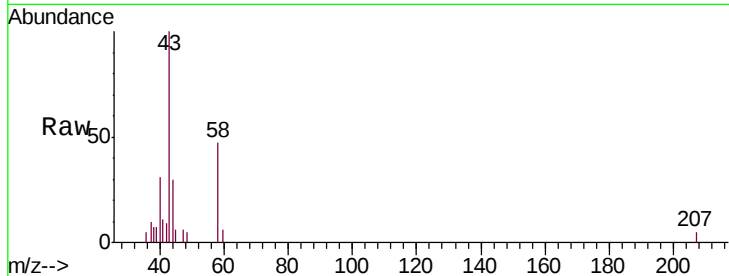




#16  
Acetone  
Concen: 3.855 ug/l  
RT: 4.14 min Scan# 366  
Delta R.T. 0.02 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

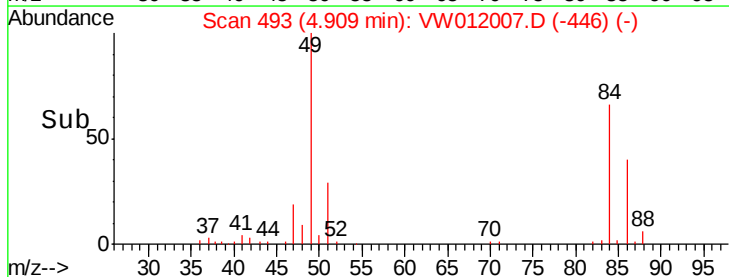
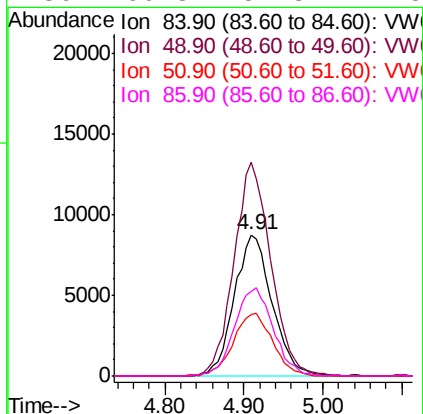
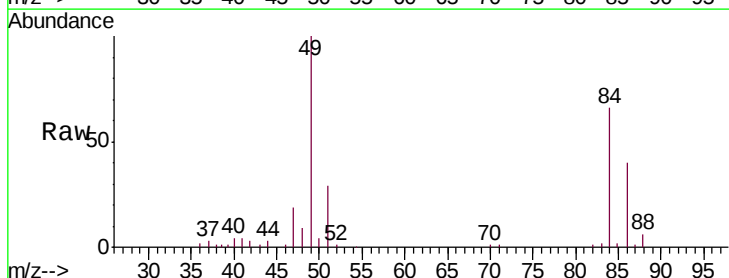
Instrument :  
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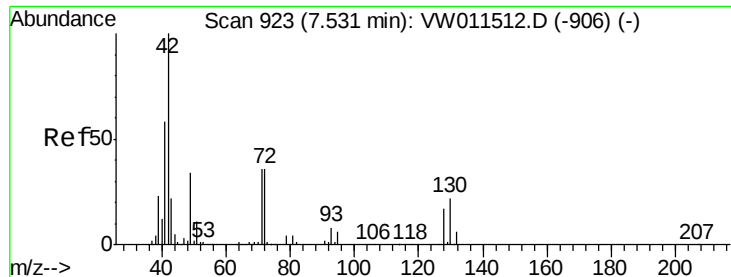
Tgt Ion: 43 Resp: 4270  
Ion Ratio Lower Upper  
43 100  
58 46.6 22.3 33.5#



#20  
Methylene Chloride  
Concen: 7.620 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

Tgt Ion: 84 Resp: 29112  
Ion Ratio Lower Upper  
84 100  
49 151.6 117.8 176.6  
51 43.9 37.0 55.4  
86 60.3 51.8 77.8

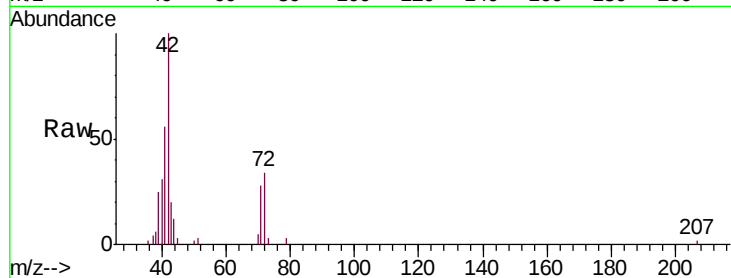




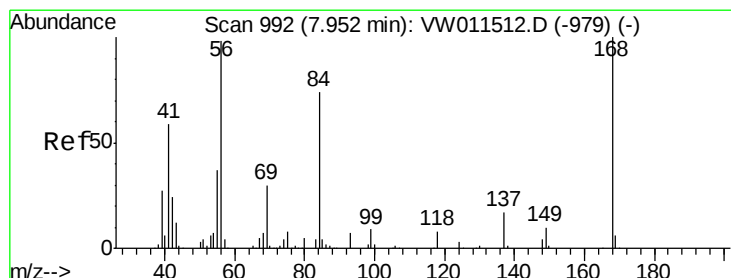
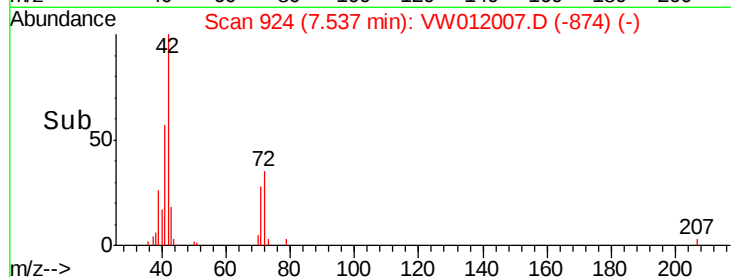
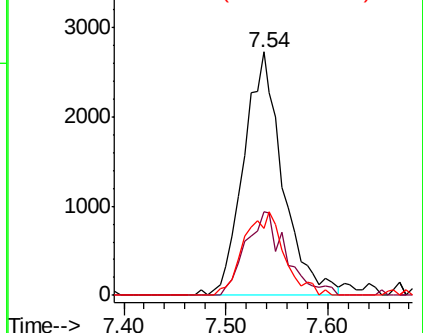
#29  
Tetrahydrofuran  
Concen: 8.780 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-E3-(0)

Tgt Ion: 42 Resp: 7275  
Ion Ratio Lower Upper  
42 100  
72 35.6 27.1 40.7  
71 35.1 26.2 39.4

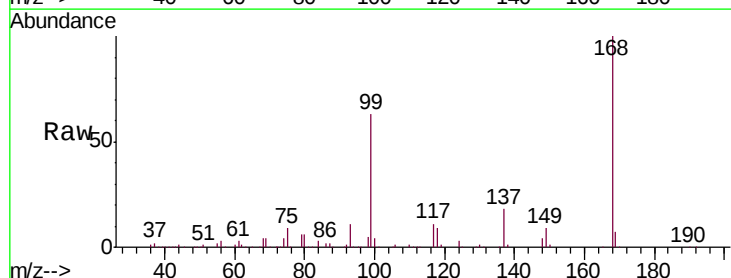


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

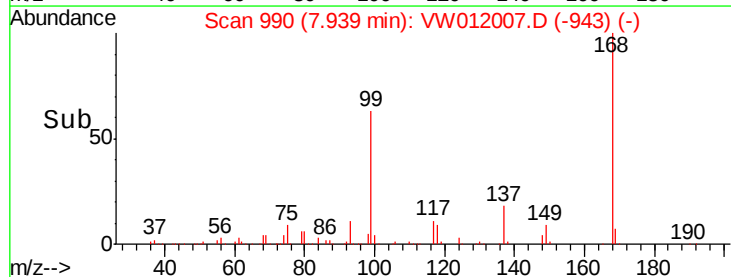
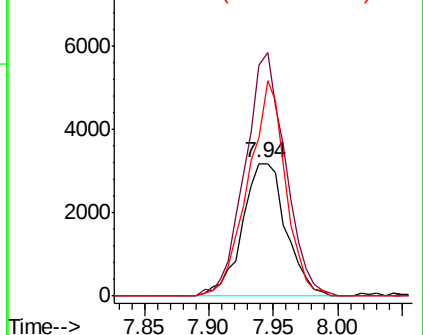


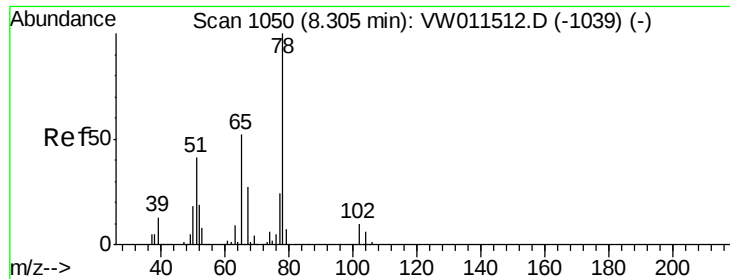
#31  
Cyclohexane  
Concen: 1.147 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

Tgt Ion: 56 Resp: 7471  
Ion Ratio Lower Upper  
56 100  
69 174.6 24.3 36.5#  
84 119.5 60.4 90.6#



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

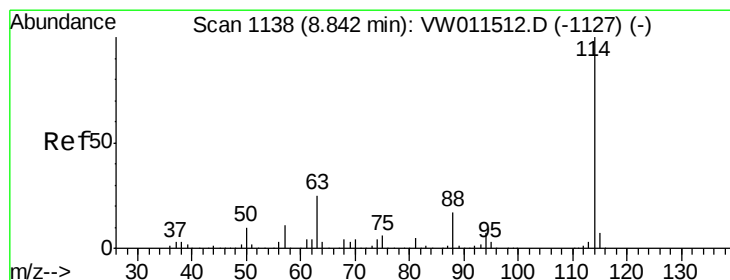
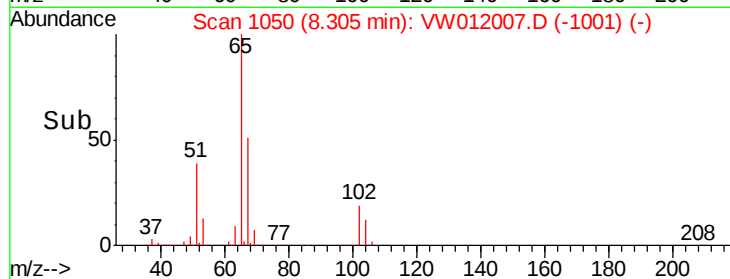
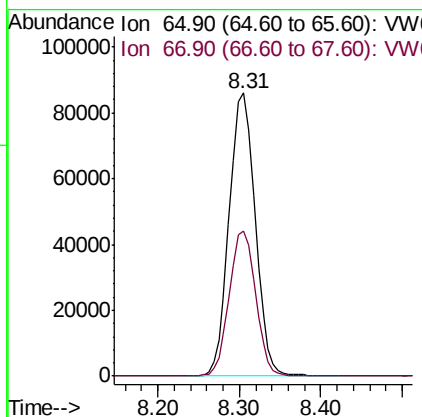
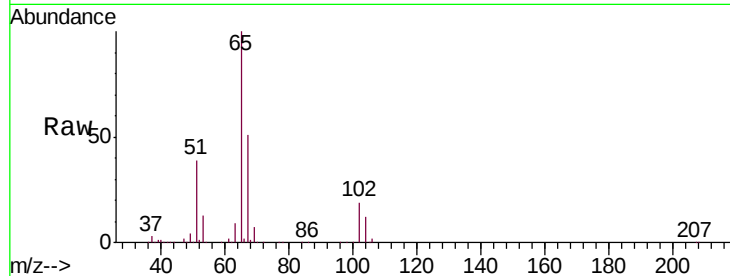




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.552 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012007.D  
 Acq: 19 Aug 2019 23:03

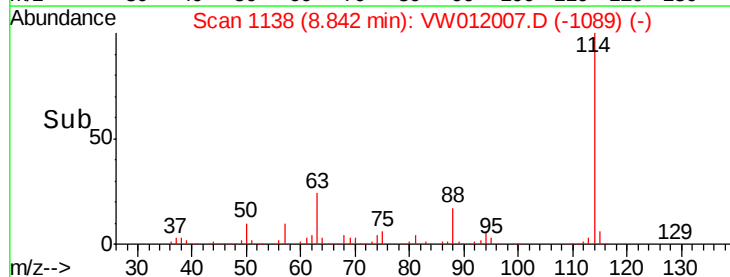
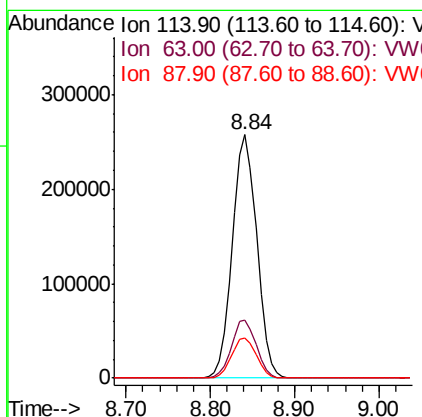
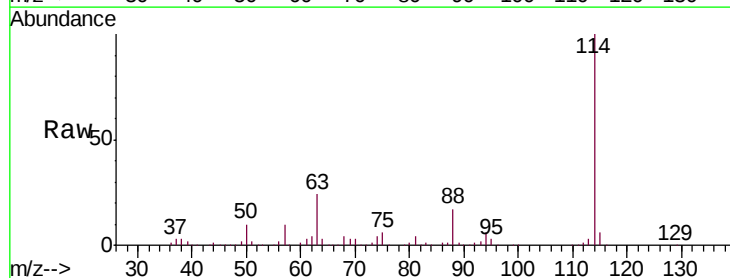
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T8-E3-(0)

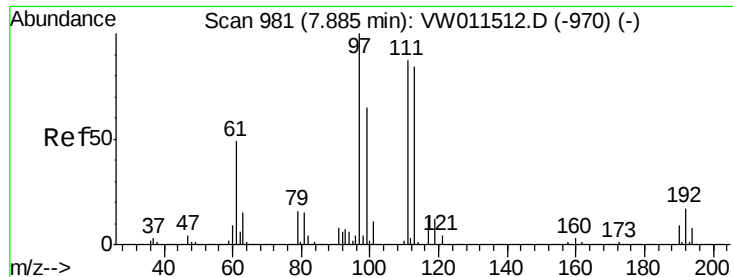
Tgt Ion: 65 Resp: 189972  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012007.D  
 Acq: 19 Aug 2019 23:03

Tgt Ion: 114 Resp: 505742  
 Ion Ratio Lower Upper  
 114 100  
 63 23.8 0.0 49.2  
 88 16.6 0.0 33.8





#35

Dibromofluoromethane

Concen: 53.752 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012007.D

Acq: 19 Aug 2019 23:03

Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-E3-(0)

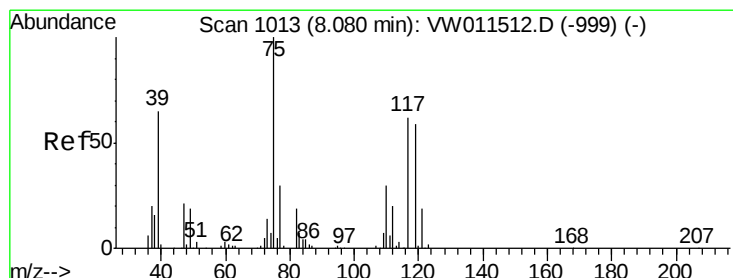
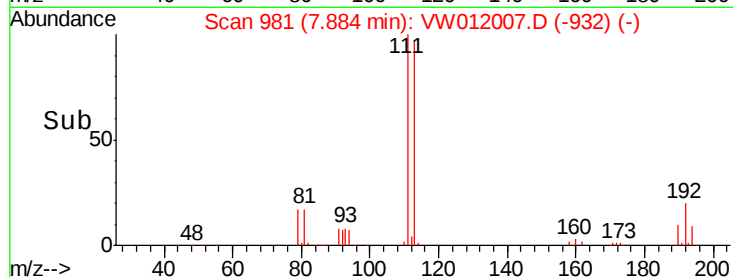
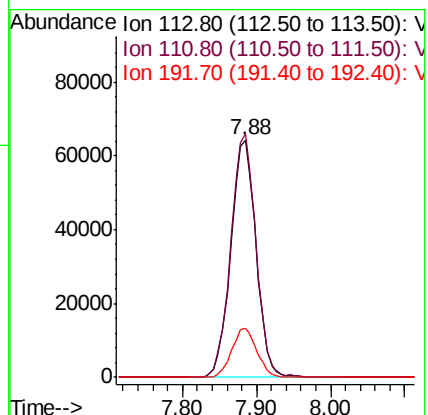
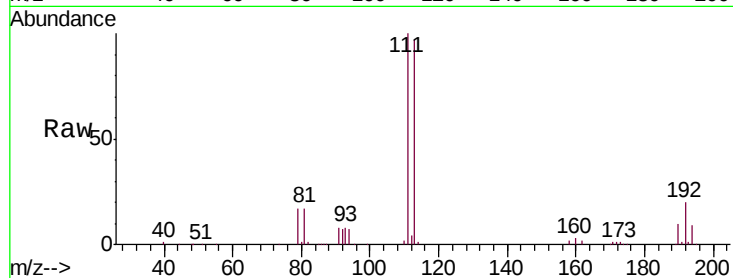
Tgt Ion: 113 Resp: 152510

Ion Ratio Lower Upper

113 100

111 102.6 82.7 124.1

192 20.4 16.1 24.1



#36

1,1-Dichloropropene

Concen: 4.814 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012007.D

Acq: 19 Aug 2019 23:03

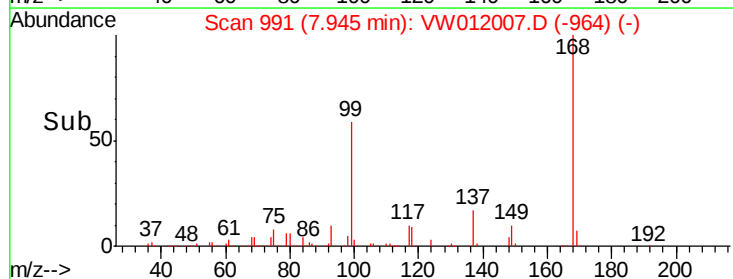
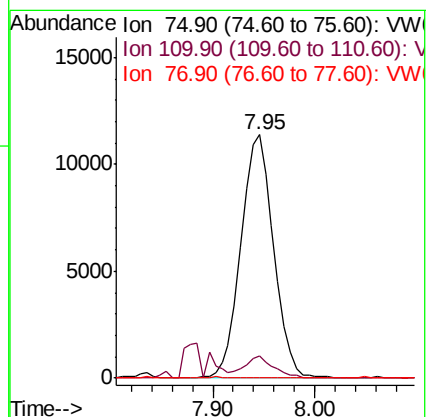
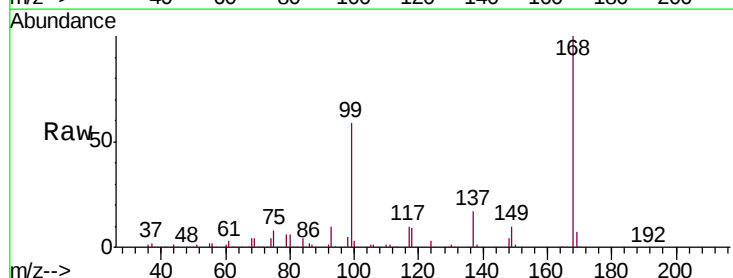
Tgt Ion: 75 Resp: 25318

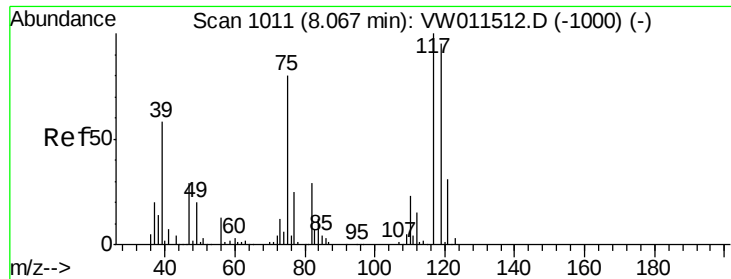
Ion Ratio Lower Upper

75 100

110 8.1 15.6 46.8#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.783 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012007.D

Acq: 19 Aug 2019 23:03

Instrument :

MSVOA\_W

ClientSampleId :

T8-E3-(0)

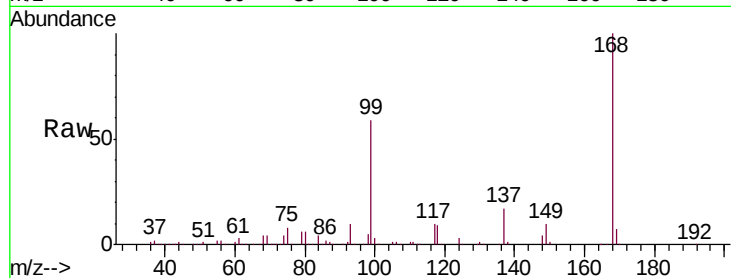
Tgt Ion:117 Resp: 30537

Ion Ratio Lower Upper

117 100

119 4.9 75.8 113.6#

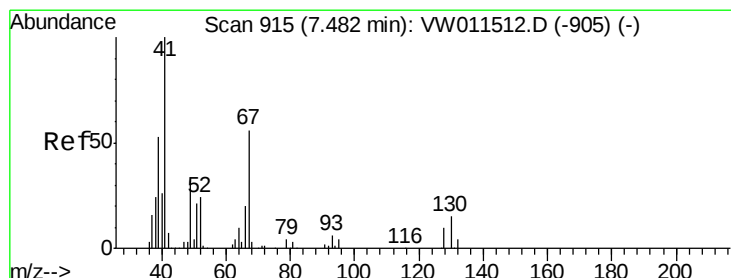
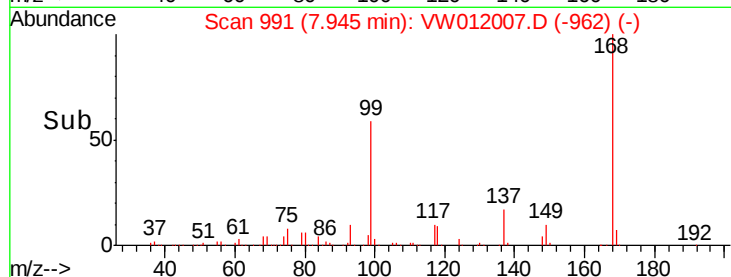
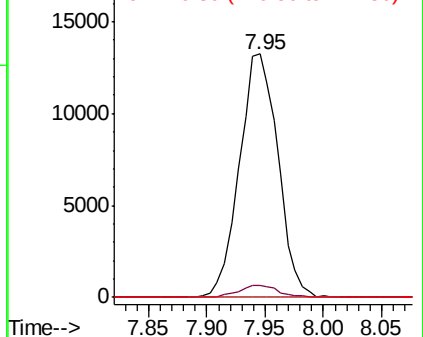
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 2.501 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012007.D

Acq: 19 Aug 2019 23:03

Tgt Ion: 41 Resp: 4524

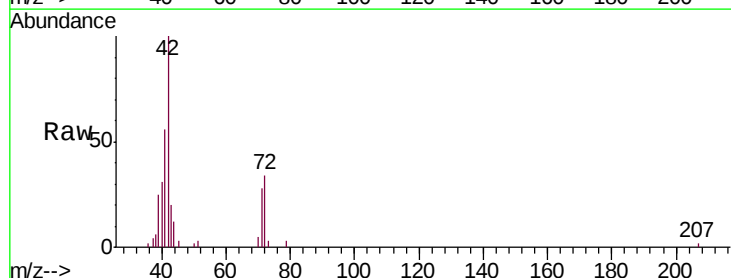
Ion Ratio Lower Upper

41 100

39 52.1 43.0 64.4

67 0.0 47.5 71.3#

52 0.0 21.0 31.6#

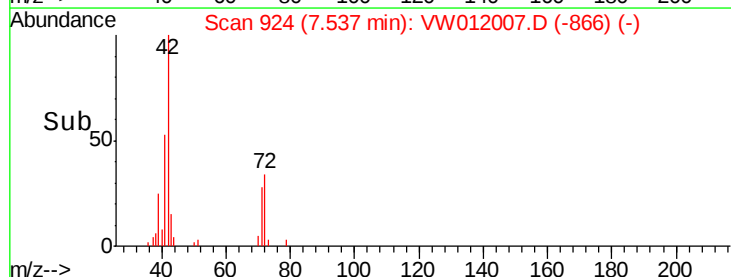
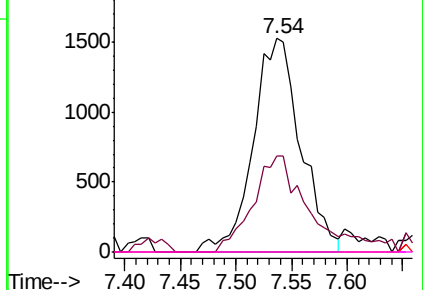


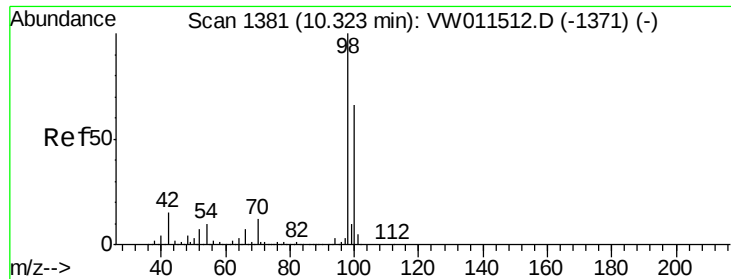
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW

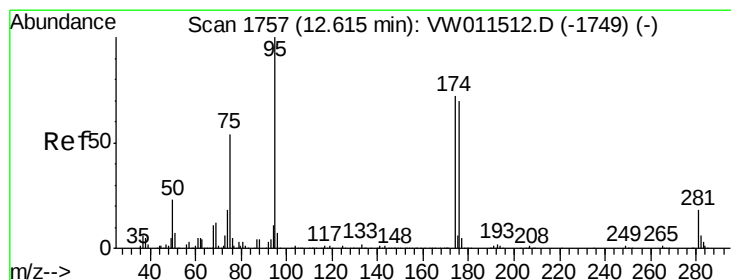
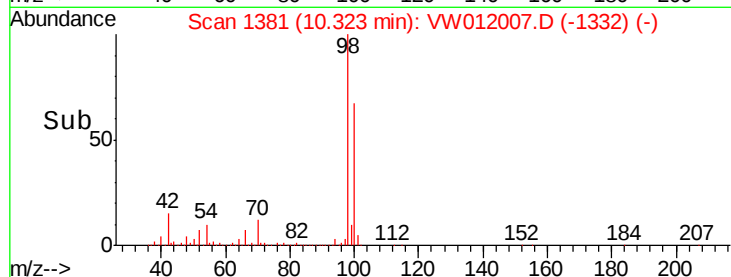
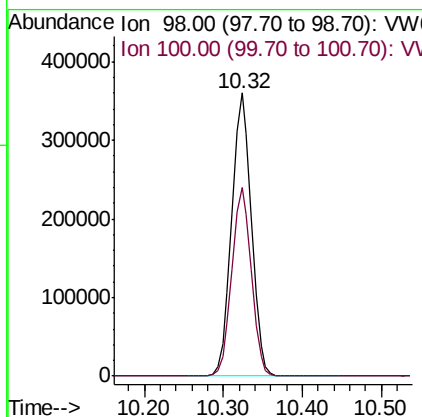
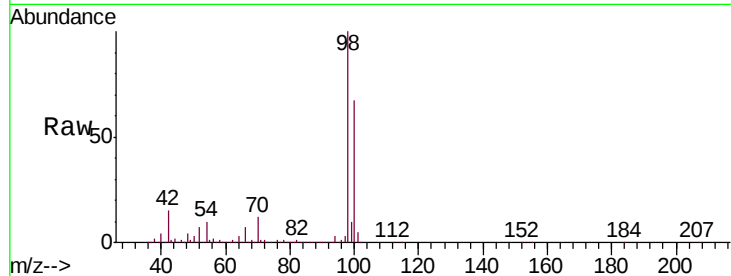




#50  
Toluene-d8  
Concen: 54.000 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

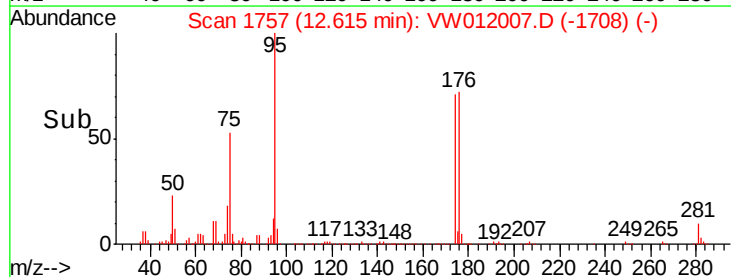
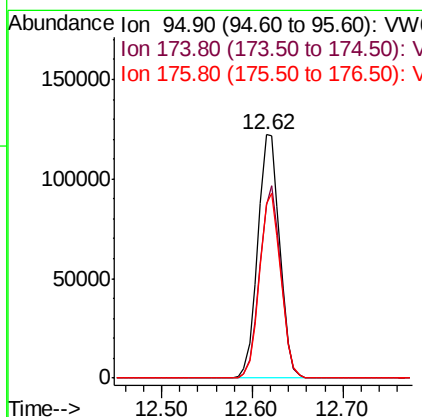
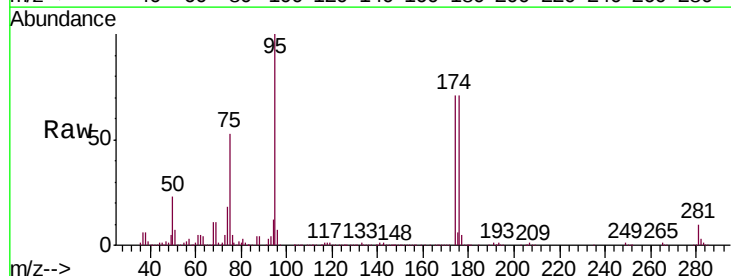
Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-E3-(0)

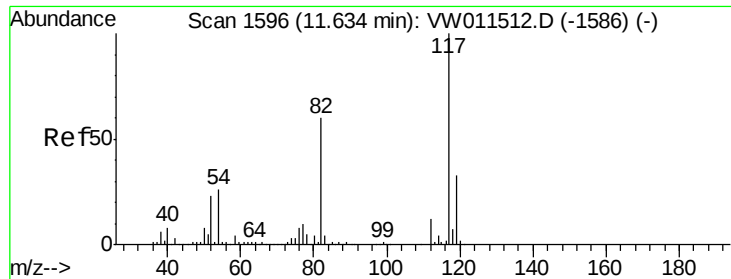
Tgt Ion: 98 Resp: 627301  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.7 79.1



#62  
4-Bromofluorobenzene  
Concen: 49.488 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

Tgt Ion: 95 Resp: 204958  
Ion Ratio Lower Upper  
95 100  
174 75.7 0.0 150.2  
176 73.3 0.0 144.4

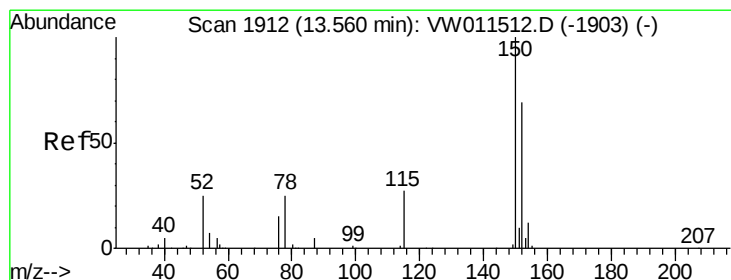
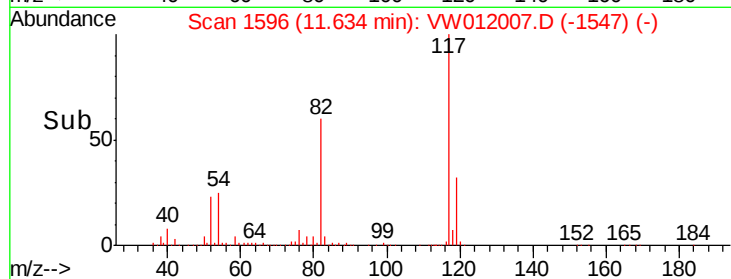
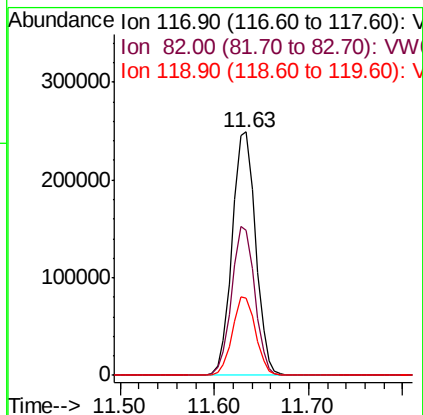
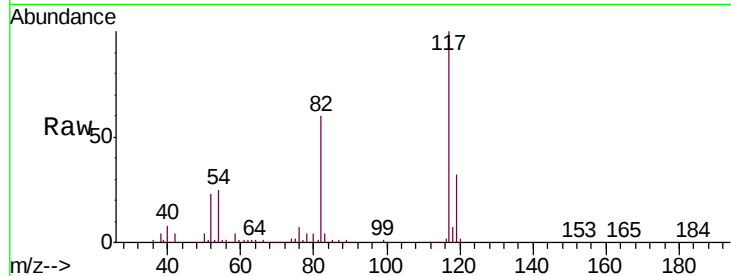




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

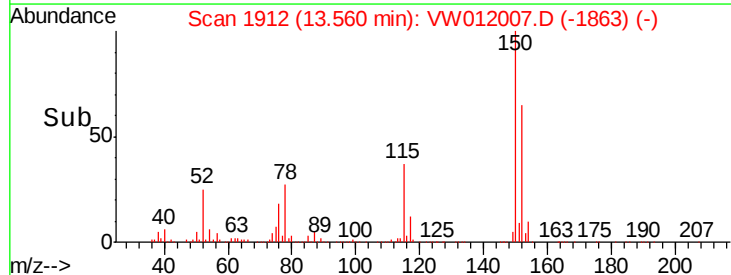
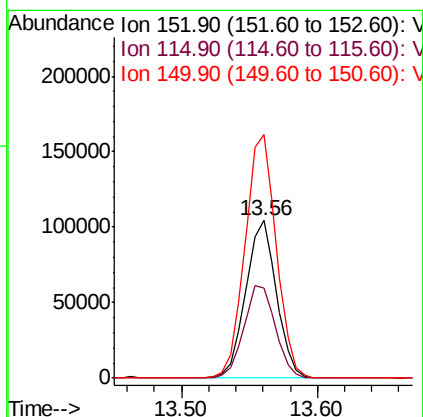
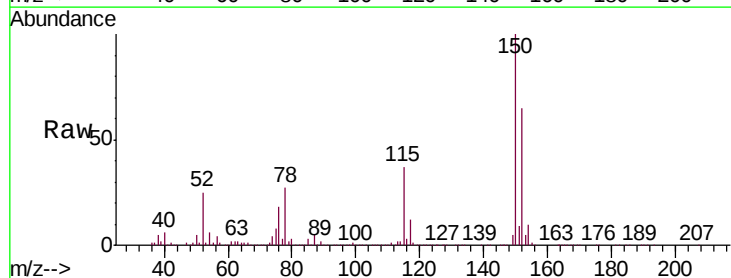
Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-E3-(0)

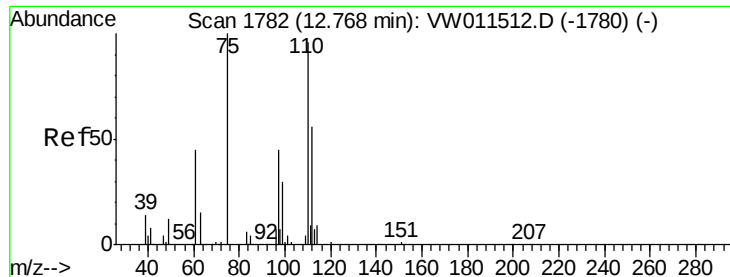
Tgt Ion:117 Resp: 431818  
Ion Ratio Lower Upper  
117 100  
82 59.5 47.9 71.9  
119 31.8 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012007.D  
Acq: 19 Aug 2019 23:03

Tgt Ion:152 Resp: 164184  
Ion Ratio Lower Upper  
152 100  
115 60.4 30.5 91.5  
150 157.6 0.0 352.6





#76

1,2,3-Trichloropropane

Concen: 61.886 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012007.D

Acq: 19 Aug 2019 23:03

Instrument :

MSVOA\_W

ClientSampleId :

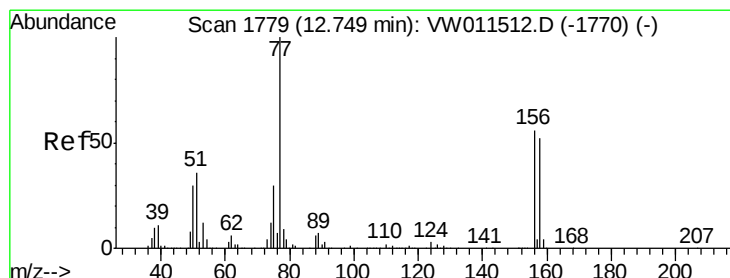
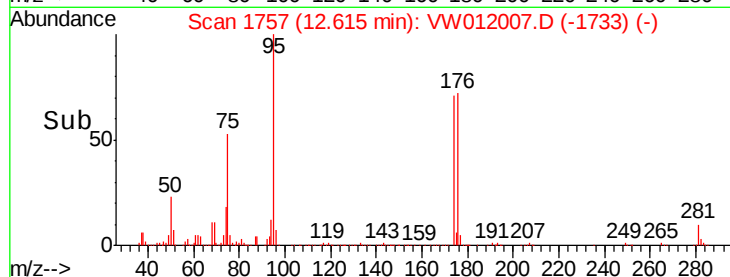
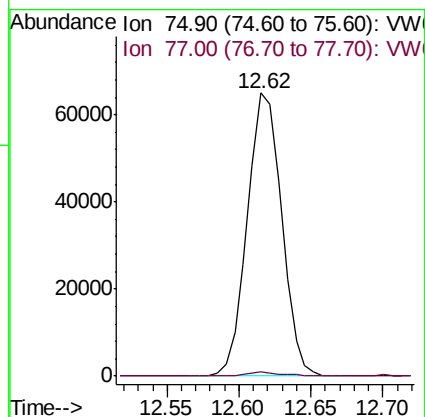
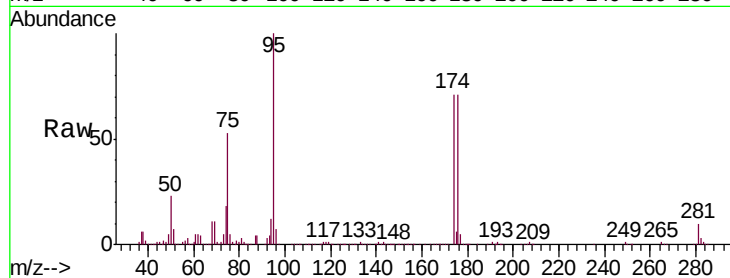
T8-E3-(0)

Tgt Ion: 75 Resp: 107511

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#77

Bromobenzene

Concen: 3.660 ug/l

RT: 12.88 min Scan# 1801

Delta R.T. 0.13 min

Lab File: VW012007.D

Acq: 19 Aug 2019 23:03

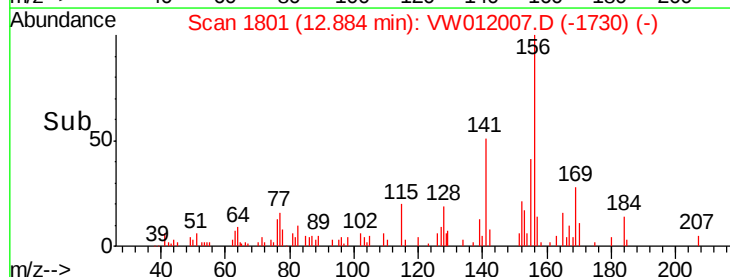
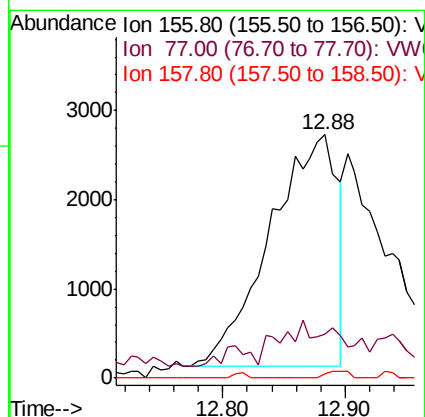
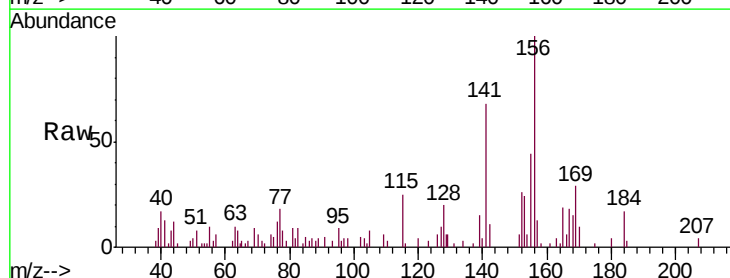
Tgt Ion: 156 Resp: 9910

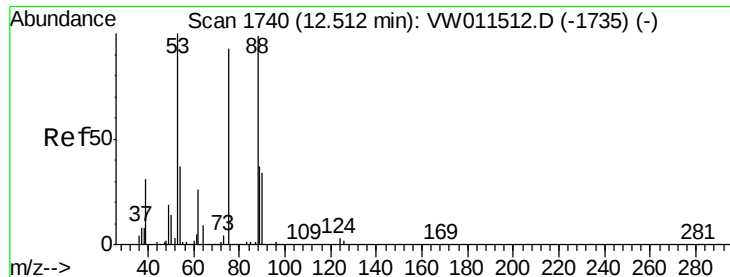
Ion Ratio Lower Upper

156 100

77 0.0 106.5 319.4#

158 1.0 48.0 144.2#

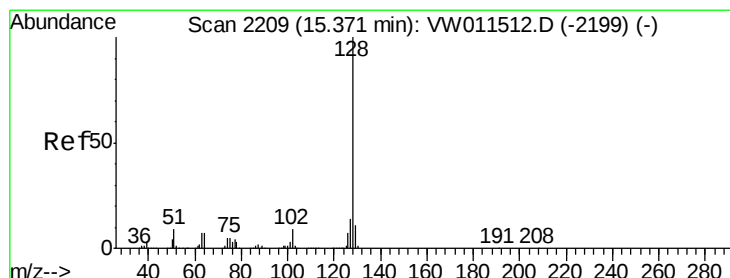
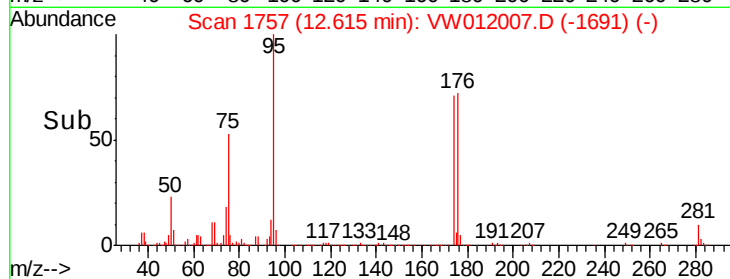
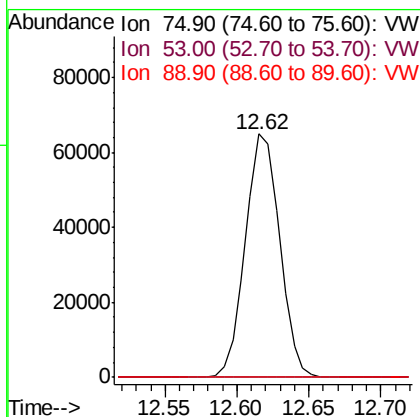
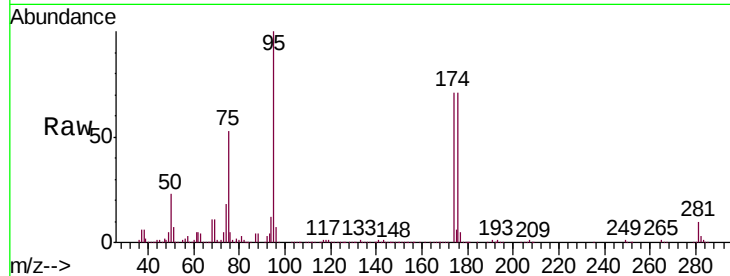




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 142.625 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW012007.D  
 Acq: 19 Aug 2019 23:03

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T8-E3-(0)

Tgt Ion: 75 Resp: 107511  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 88.0 132.0#  
 89 0.2 35.3 52.9#



#95  
 Naphthalene  
 Concen: 2.368 ug/l  
 RT: 15.36 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: VW012007.D  
 Acq: 19 Aug 2019 23:03

Tgt Ion: 128 Resp: 2044  
 Ion Ratio Lower Upper  
 128 100  
 127 20.2 10.6 16.0#  
 129 28.0 8.6 13.0#

