

Data File : VW010638.D  
Acq On : 31 May 2019 15:56  
Operator : SY/VA  
Sample : K3105-07  
Misc : 4.09G/5ML/MSVOA\_W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
8-9-TRACK

Quant Time: Jun 01 04:51:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 21 06:38:43 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 157389   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 274701   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 227500   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 82468    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 84441    | 51.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.96% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 81057    | 48.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.26%  |      |
| 50) Toluene-d8            | 10.32  | 98  | 328740   | 51.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.26% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 106486   | 41.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 83.96%  |      |

Target Compounds

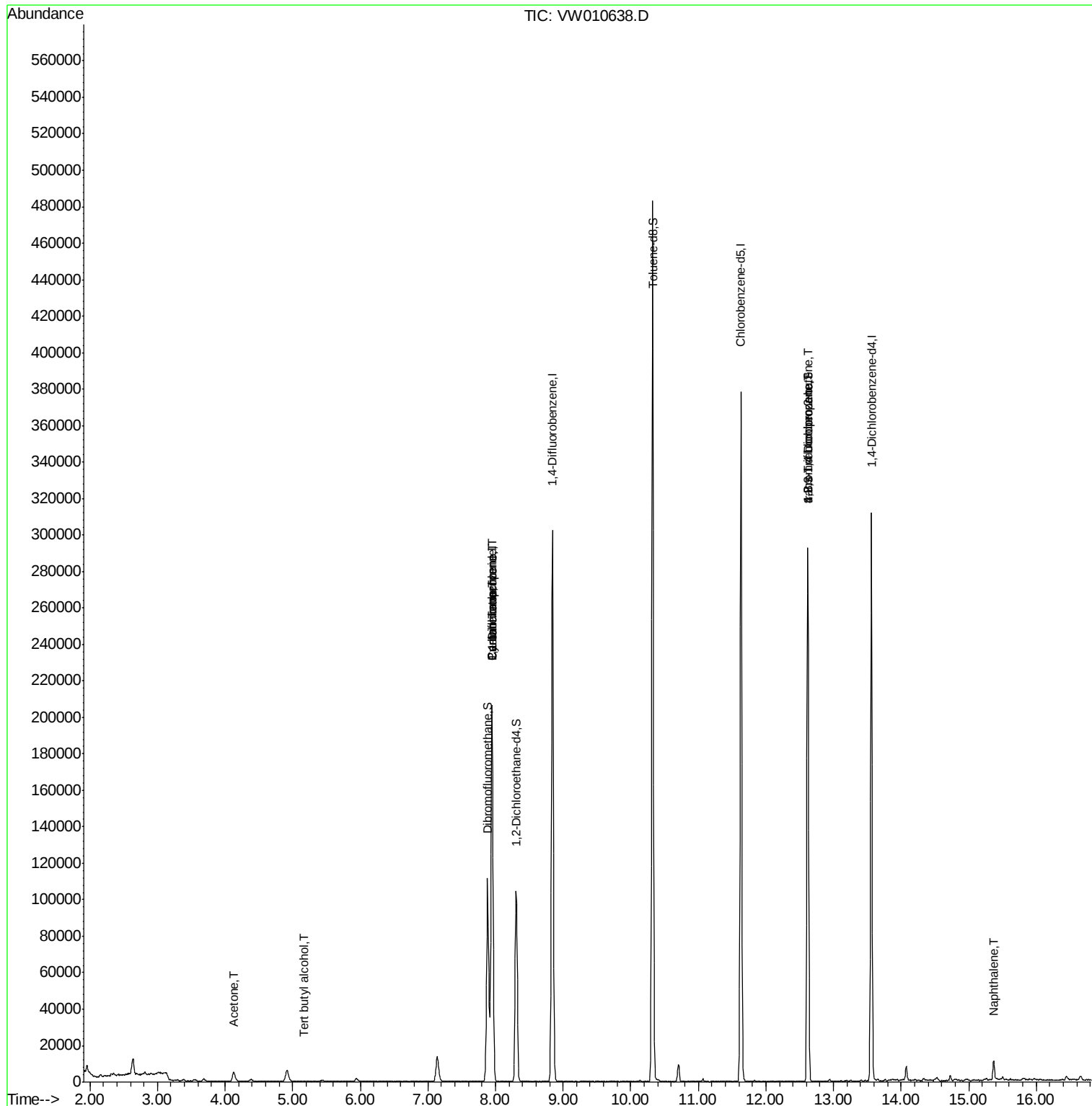
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59  | 390   | 2.669     | ug/l # | 71     |
| 16) Acetone                    | 4.12  | 43  | 9666  | 29.149    | ug/l   | 93     |
| 20) Methylene Chloride         | 4.92  | 84  | 5186  | Below Cal |        | 94     |
| 31) Cyclohexane                | 7.95  | 56  | 3203  | 1.038     | ug/l # | 29     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 11616 | 4.539     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 15679 | 5.680     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 49311 | 58.907    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 49311 | 122.940   | ug/l # | 14     |
| 95) Naphthalene                | 15.37 | 128 | 9974  | 2.668     | ug/l   | 99     |

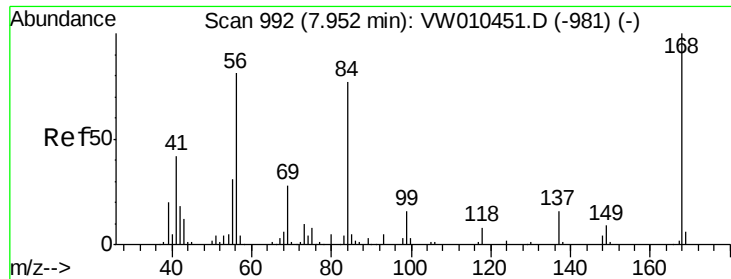
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010638.D

Acq: 31 May 2019 15:56

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MSVOA\_W

ClientSampleId :

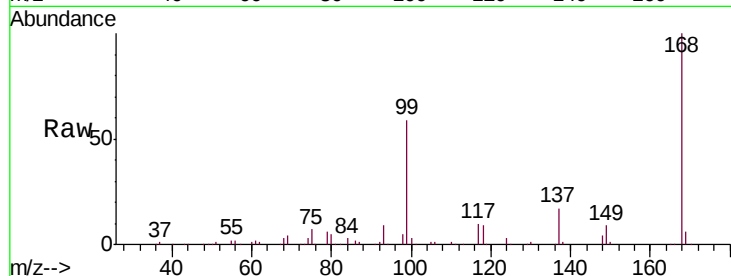
8-9-TRACK

Tgt Ion: 168 Resp: 157389

Ion Ratio Lower Upper

168 100

99 59.3 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

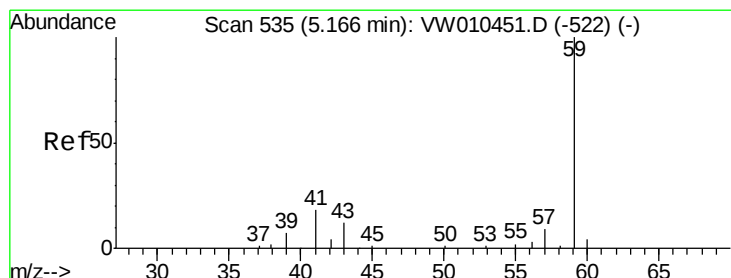
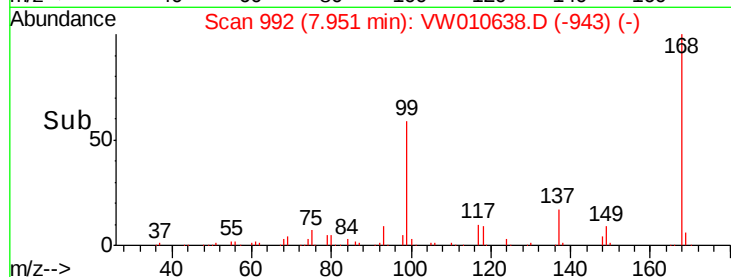
40000

20000

0

7.90 8.00 8.10

Time-->



#11

Tert butyl alcohol

Concen: 2.669 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW010638.D

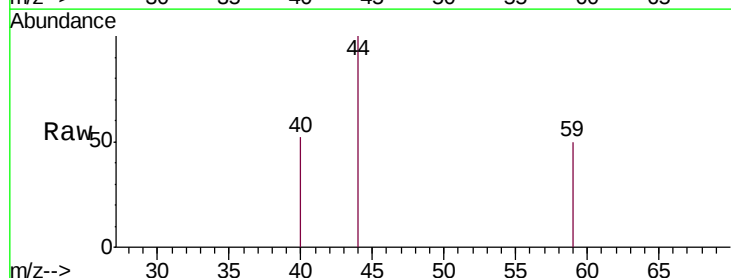
Acq: 31 May 2019 15:56

Tgt Ion: 59 Resp: 390

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

150

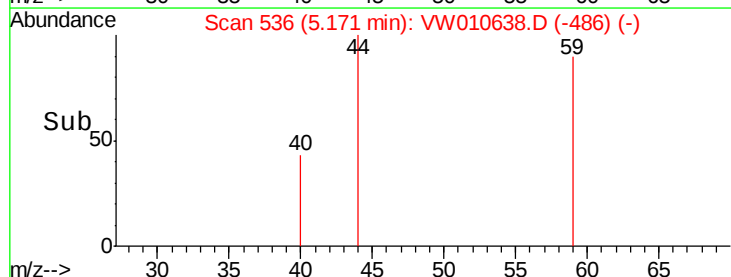
100

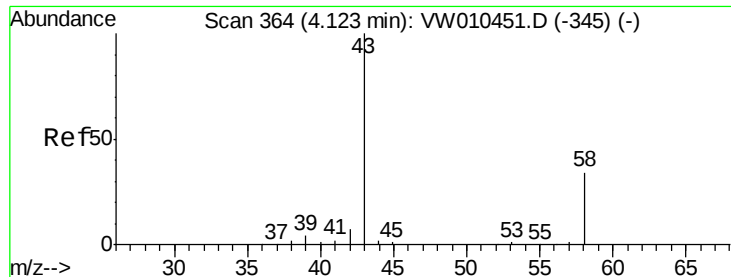
50

0

5.10 5.15 5.20

Time-->

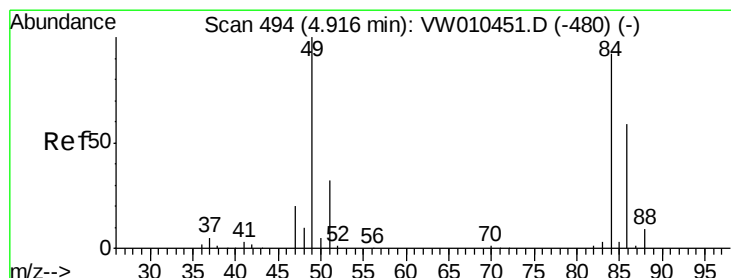
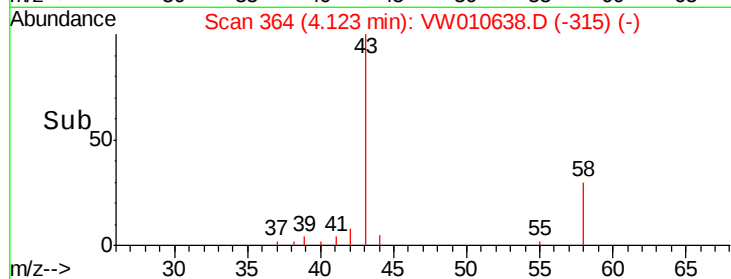
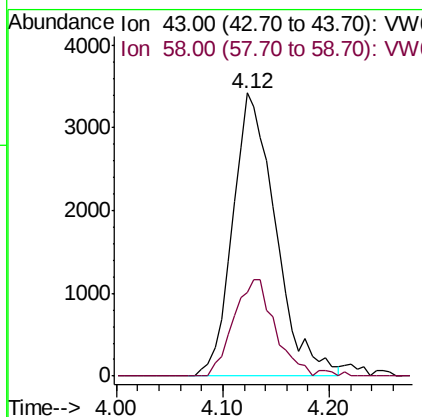
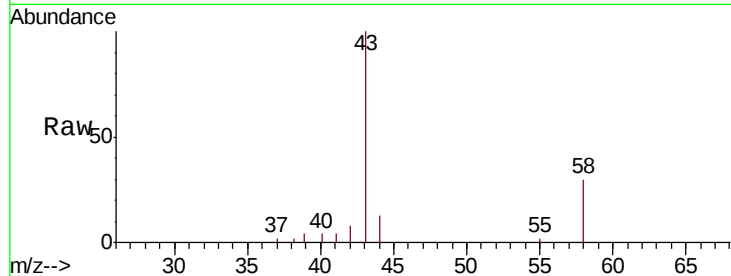




#16  
Acetone  
Concen: 29.149 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. -0.00 min  
Lab File: VW010638.D  
Acq: 31 May 2019 15:56

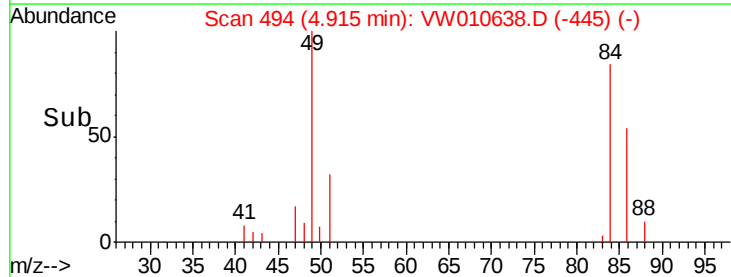
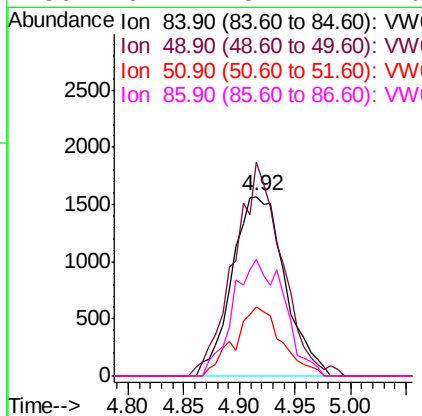
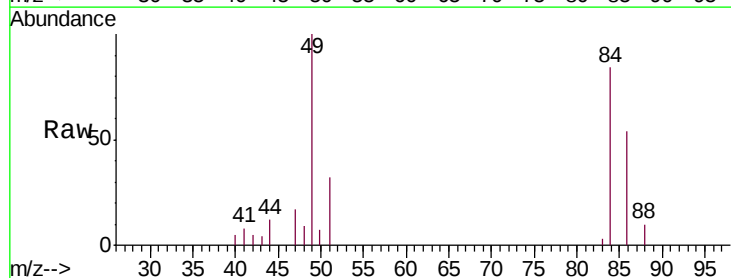
Instrument :  
MSVOA\_W  
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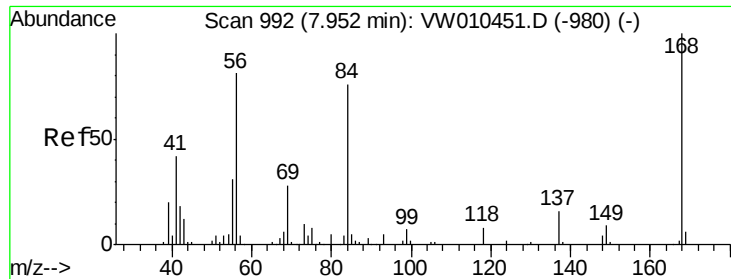
Tgt Ion: 43 Resp: 9666  
Ion Ratio Lower Upper  
43 100  
58 29.6 27.0 40.4



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW010638.D  
Acq: 31 May 2019 15:56

Tgt Ion: 84 Resp: 5186  
Ion Ratio Lower Upper  
84 100  
49 119.0 87.2 130.8  
51 38.5 27.7 41.5  
86 64.7 51.4 77.0

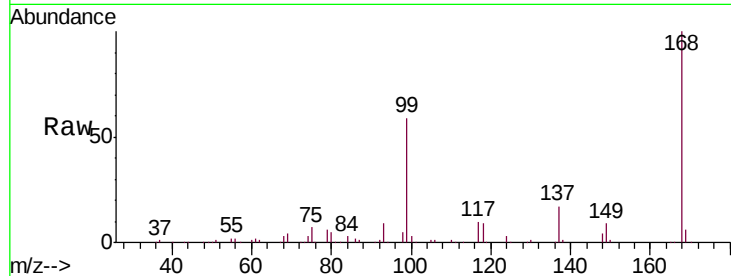




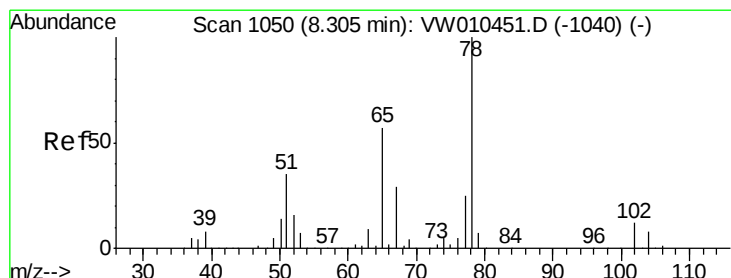
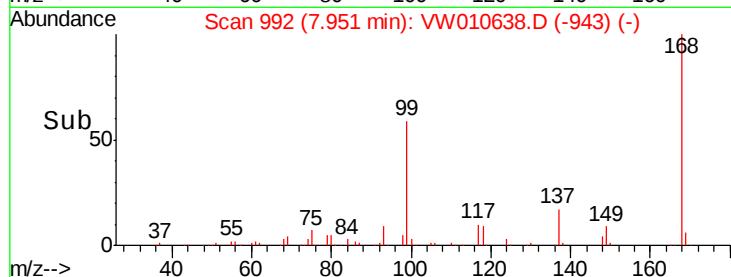
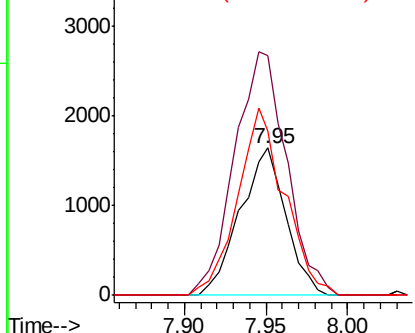
#31  
Cyclohexane  
Concen: 1.038 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW010638.D  
Acq: 31 May 2019 15:56

Instrument :  
MSVOA\_W  
ClientSampleId :  
8-9-TRACK

Tgt Ion: 56 Resp: 3203  
Ion Ratio Lower Upper  
56 100  
69 162.4 28.2 42.2#  
84 110.9 75.8 113.8

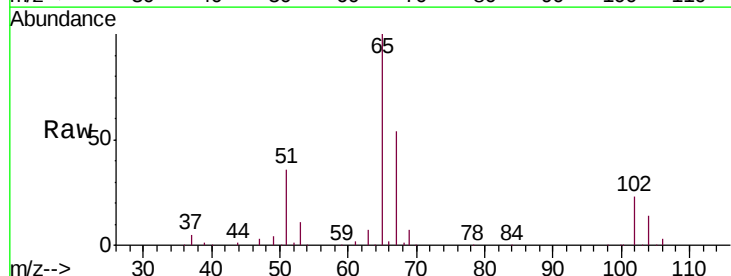


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

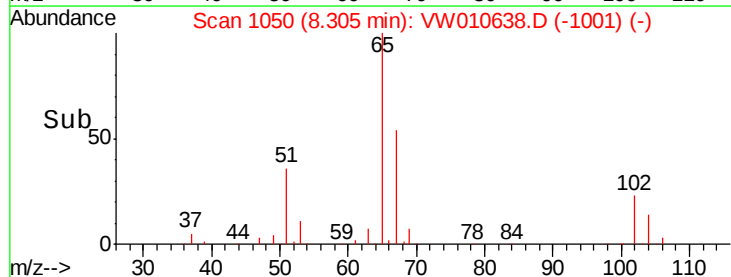
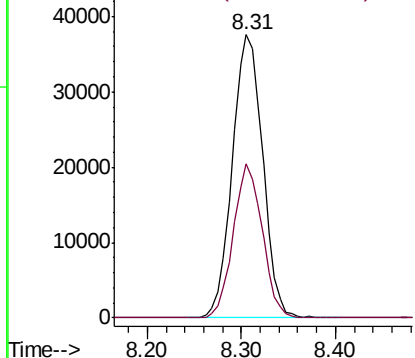


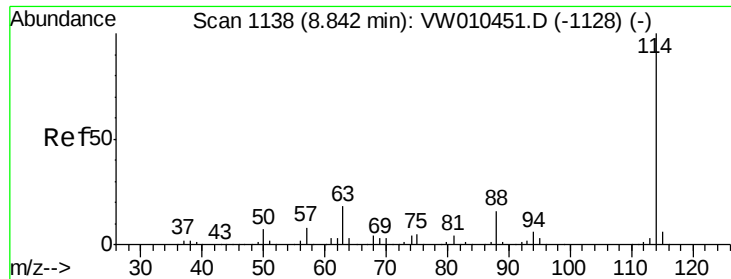
#33  
1,2-Dichloroethane-d4  
Concen: 51.979 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW010638.D  
Acq: 31 May 2019 15:56

Tgt Ion: 65 Resp: 84441  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 103.6



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

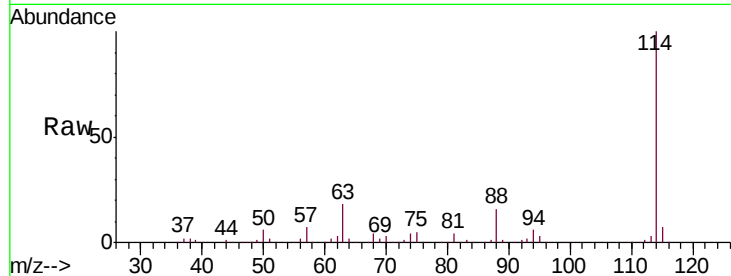




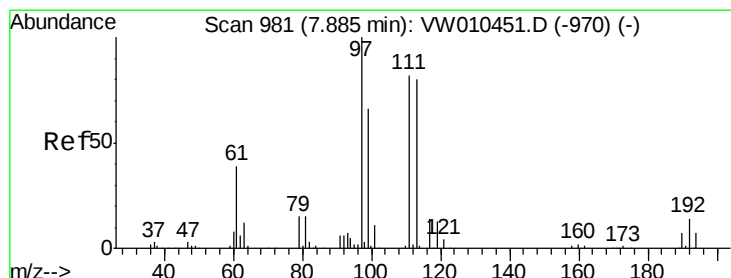
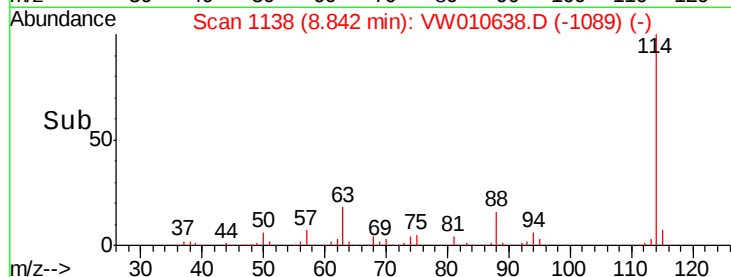
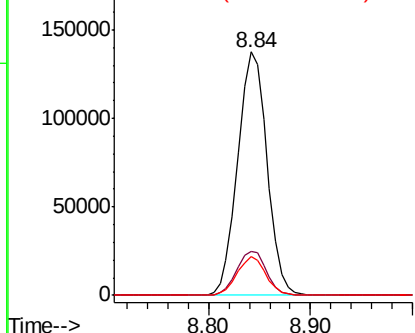
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW010638.D  
 Acq: 31 May 2019 15:56

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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Tgt Ion:114 Resp: 274701  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 36.0  
 88 15.7 0.0 32.0

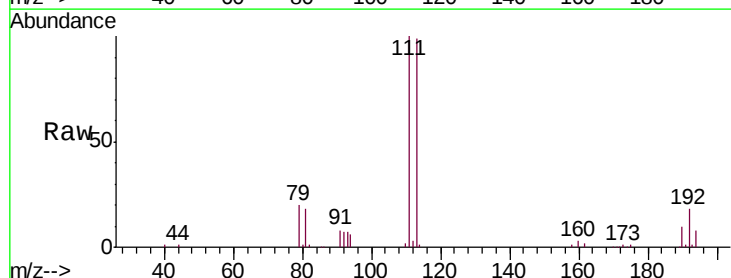


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

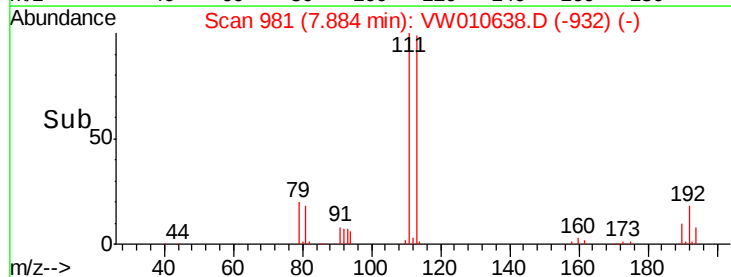
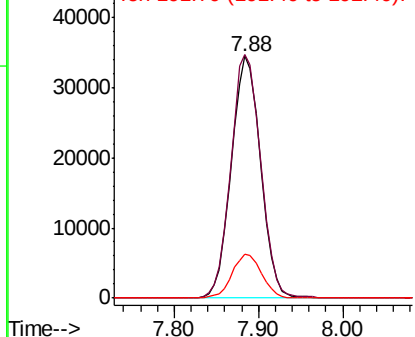


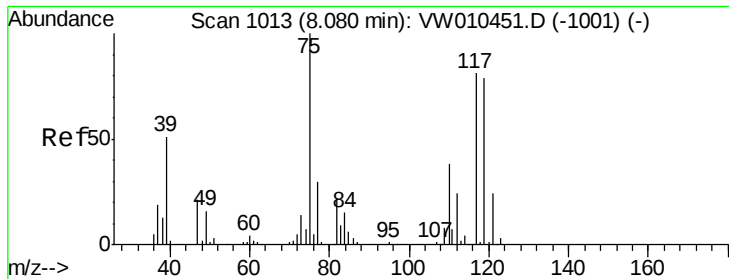
#35  
 Dibromofluoromethane  
 Concen: 48.629 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW010638.D  
 Acq: 31 May 2019 15:56

Tgt Ion:113 Resp: 81057  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 82.2 123.4  
 192 18.2 14.3 21.5



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

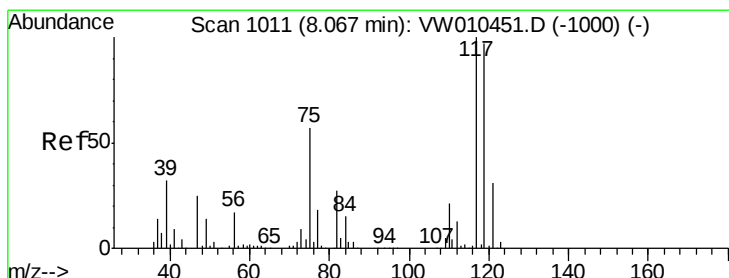
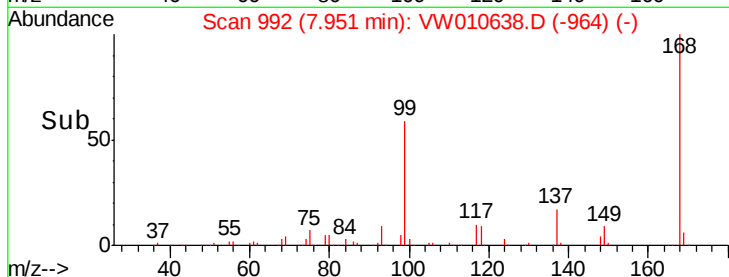
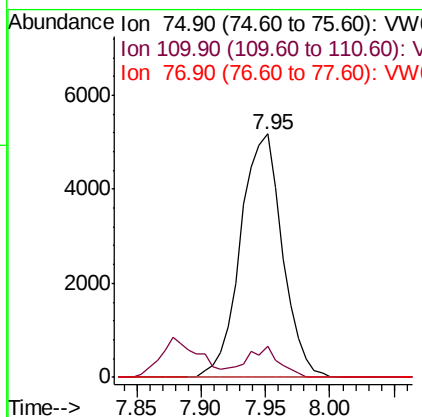
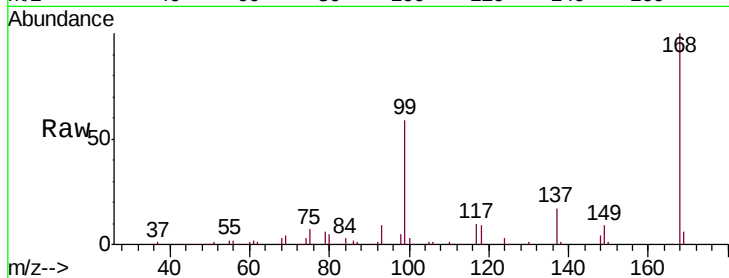




#36  
 1,1-Dichloropropene  
 Concen: 4.539 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW010638.D  
 Acq: 31 May 2019 15:56

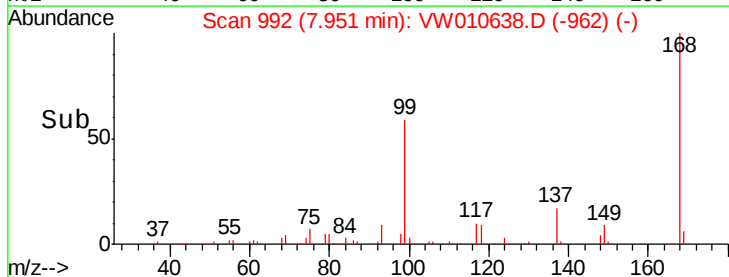
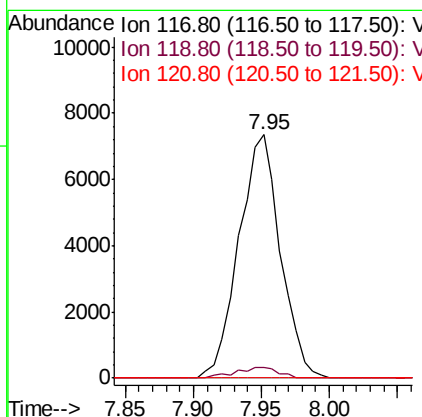
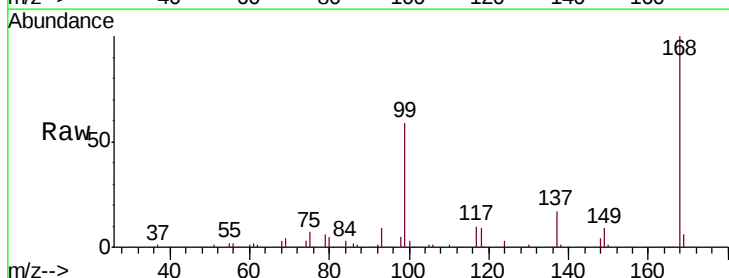
Instrument :  
 MSVOA\_W  
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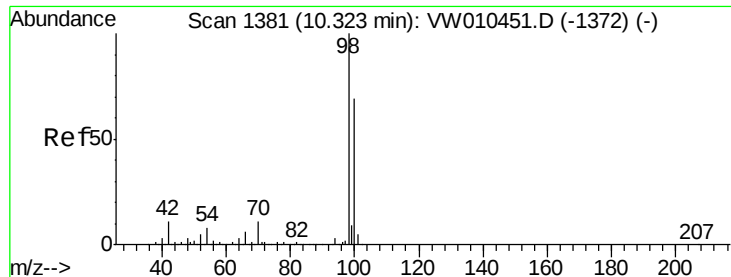
Tgt Ion: 75 Resp: 11616  
 Ion Ratio Lower Upper  
 75 100  
 110 10.3 19.2 57.6#  
 77 0.0 25.2 37.8#



#38  
 Carbon Tetrachloride  
 Concen: 5.680 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW010638.D  
 Acq: 31 May 2019 15:56

Tgt Ion: 117 Resp: 15679  
 Ion Ratio Lower Upper  
 117 100  
 119 4.6 77.4 116.0#  
 121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: 51.626 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010638.D

Acq: 31 May 2019 15:56

Instrument :

MSVOA\_W

ClientSampleId :

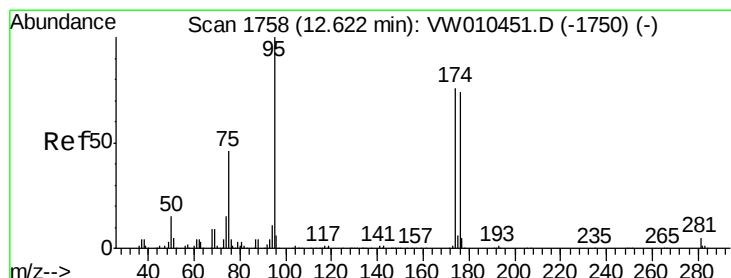
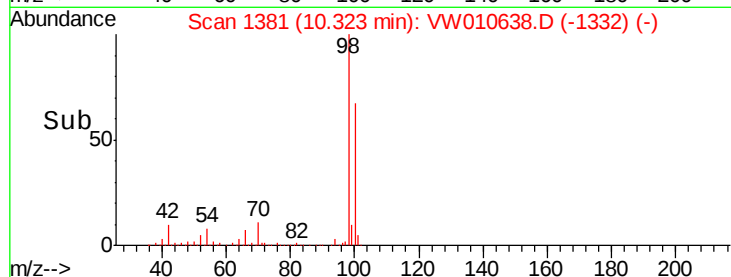
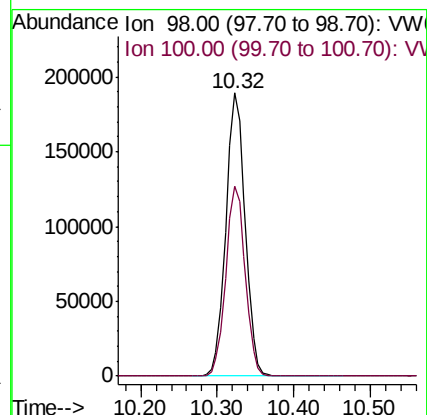
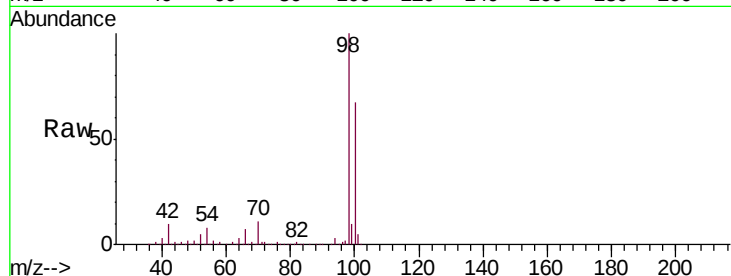
8-9-TRACK

Tgt Ion: 98 Resp: 328740

Ion Ratio Lower Upper

98 100

100 67.5 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 41.984 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010638.D

Acq: 31 May 2019 15:56

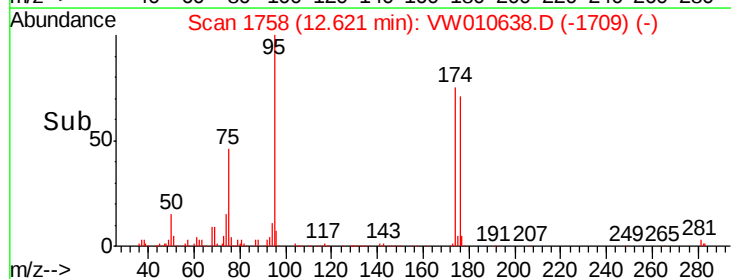
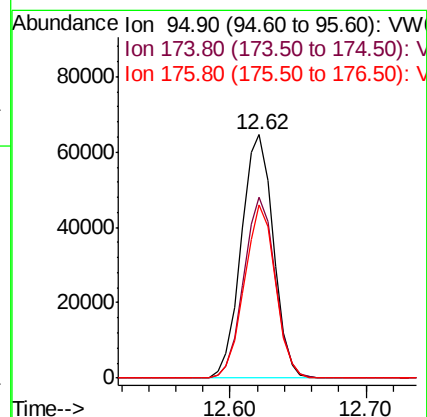
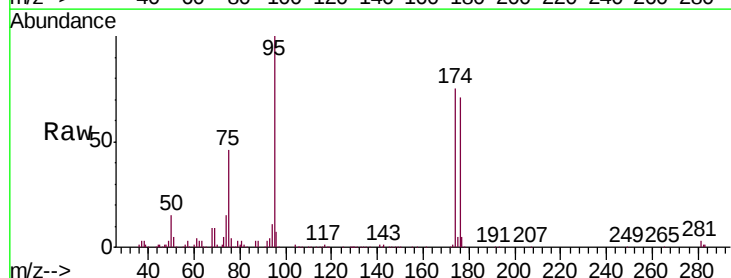
Tgt Ion: 95 Resp: 106486

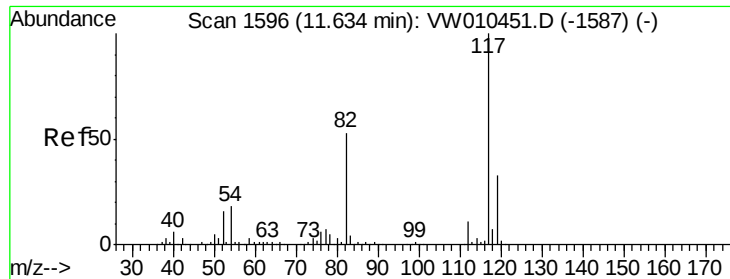
Ion Ratio Lower Upper

95 100

174 73.0 0.0 148.6

176 68.9 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW010638.D

Acq: 31 May 2019 15:56

Instrument :

MSVOA\_W

ClientSampleId :

8-9-TRACK

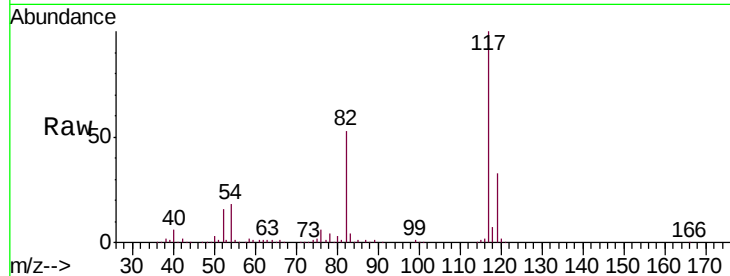
Tgt Ion:117 Resp: 227500

Ion Ratio Lower Upper

117 100

82 52.5 42.8 64.2

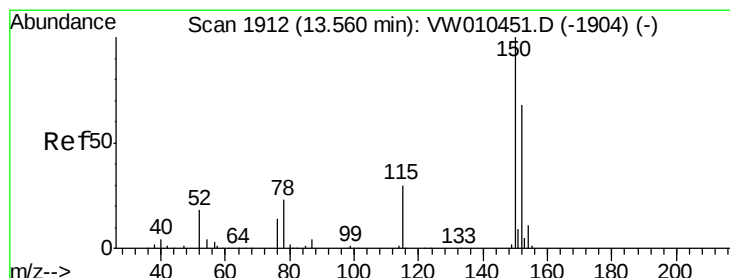
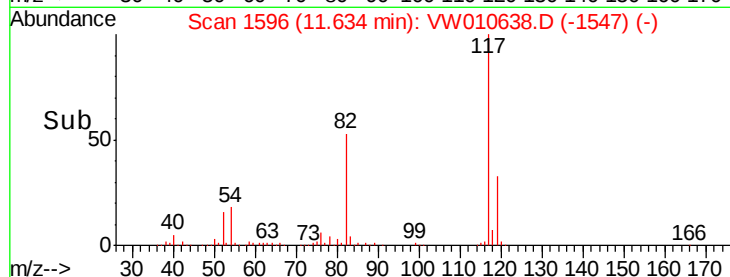
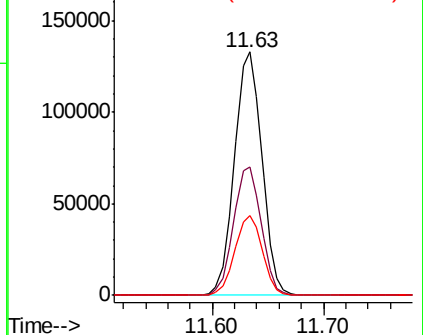
119 32.7 26.3 39.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010638.D

Acq: 31 May 2019 15:56

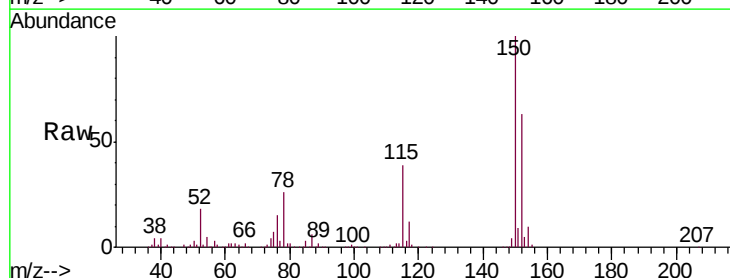
Tgt Ion:152 Resp: 82468

Ion Ratio Lower Upper

152 100

115 62.5 30.3 91.0

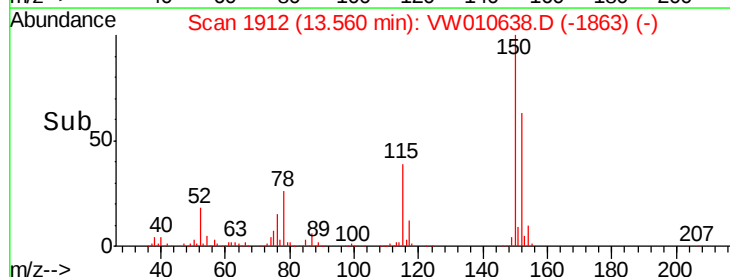
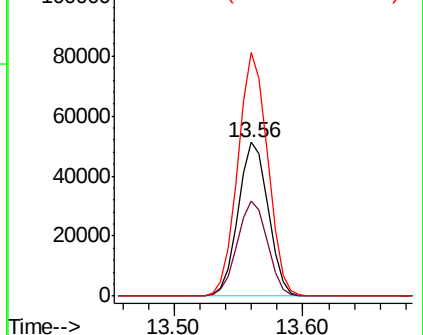
150 157.7 0.0 349.8

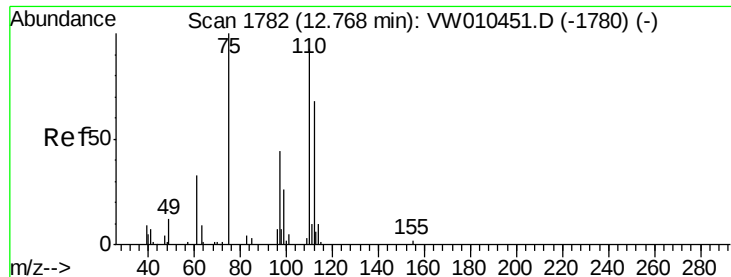


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

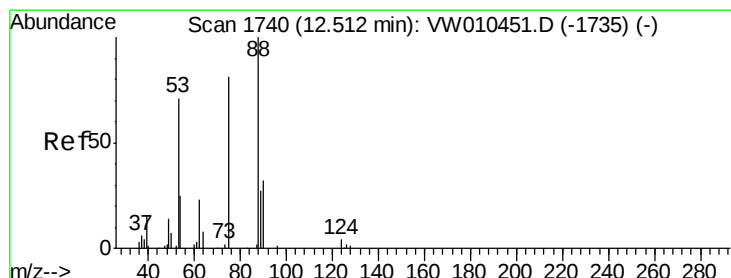
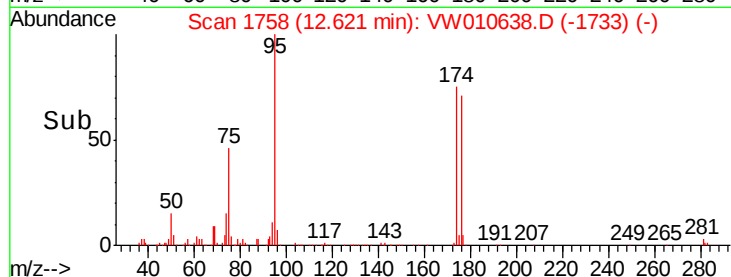
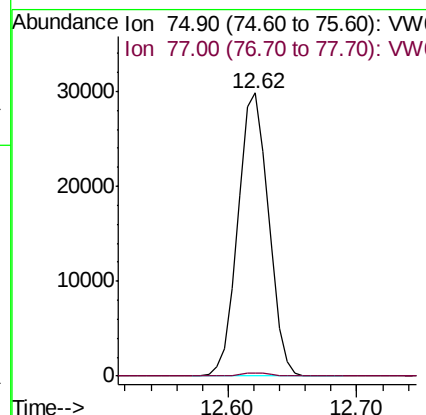
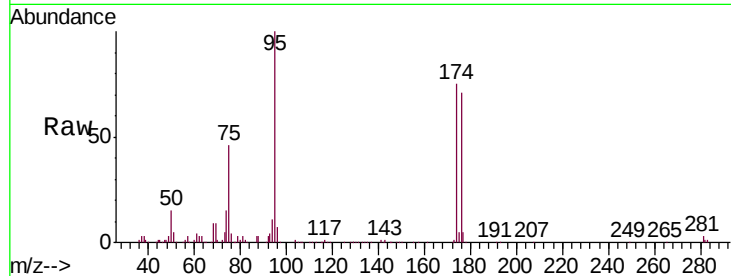




#76  
 1,2,3-Trichloropropane  
 Concen: 58.907 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW010638.D  
 Acq: 31 May 2019 15:56

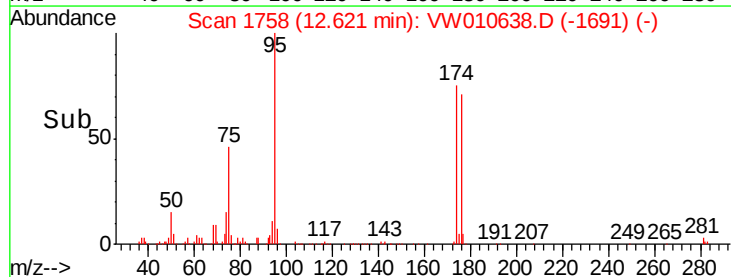
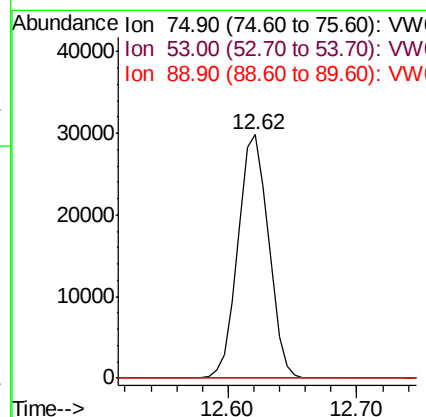
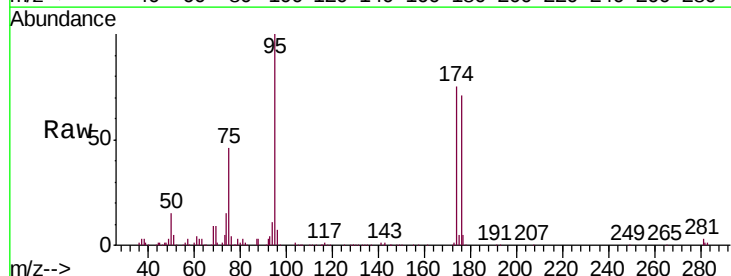
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 8-9-TRACK

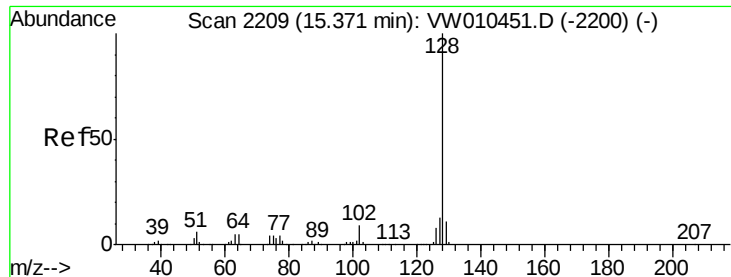
Tgt Ion: 75 Resp: 49311  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 170.0 510.1#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 122.940 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.11 min  
 Lab File: VW010638.D  
 Acq: 31 May 2019 15:56

Tgt Ion: 75 Resp: 49311  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.8 104.8#  
 89 0.0 39.5 59.3#

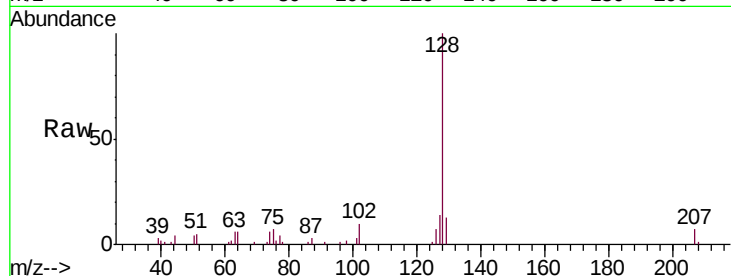




#95  
Naphthalene  
Concen: 2.668 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.00 min  
Lab File: VW010638.D  
Acq: 31 May 2019 15:56

Instrument :  
MSVOA\_W  
ClientSampleId :  
8-9-TRACK

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.6  | 15.8  |
| 129     | 11.1  | 8.9   | 13.3  |



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

