

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081018\  
 Data File : VW004541.D  
 Acq On : 08 Aug 2018 21:35  
 Operator : SY/AP  
 Sample : J4313-01RE  
 Misc : 3.49G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-5RE

Quant Time: Aug 09 05:16:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 414658   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 688200   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 503952   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 114036   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 306109   | 66.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 133.38% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 277753   | 60.53 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 121.06% |      |
| 50) Toluene-d8              | 10.33  | 98  | 735203   | 42.03 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.06%  |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 143042   | 22.70 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 45.40%  |      |

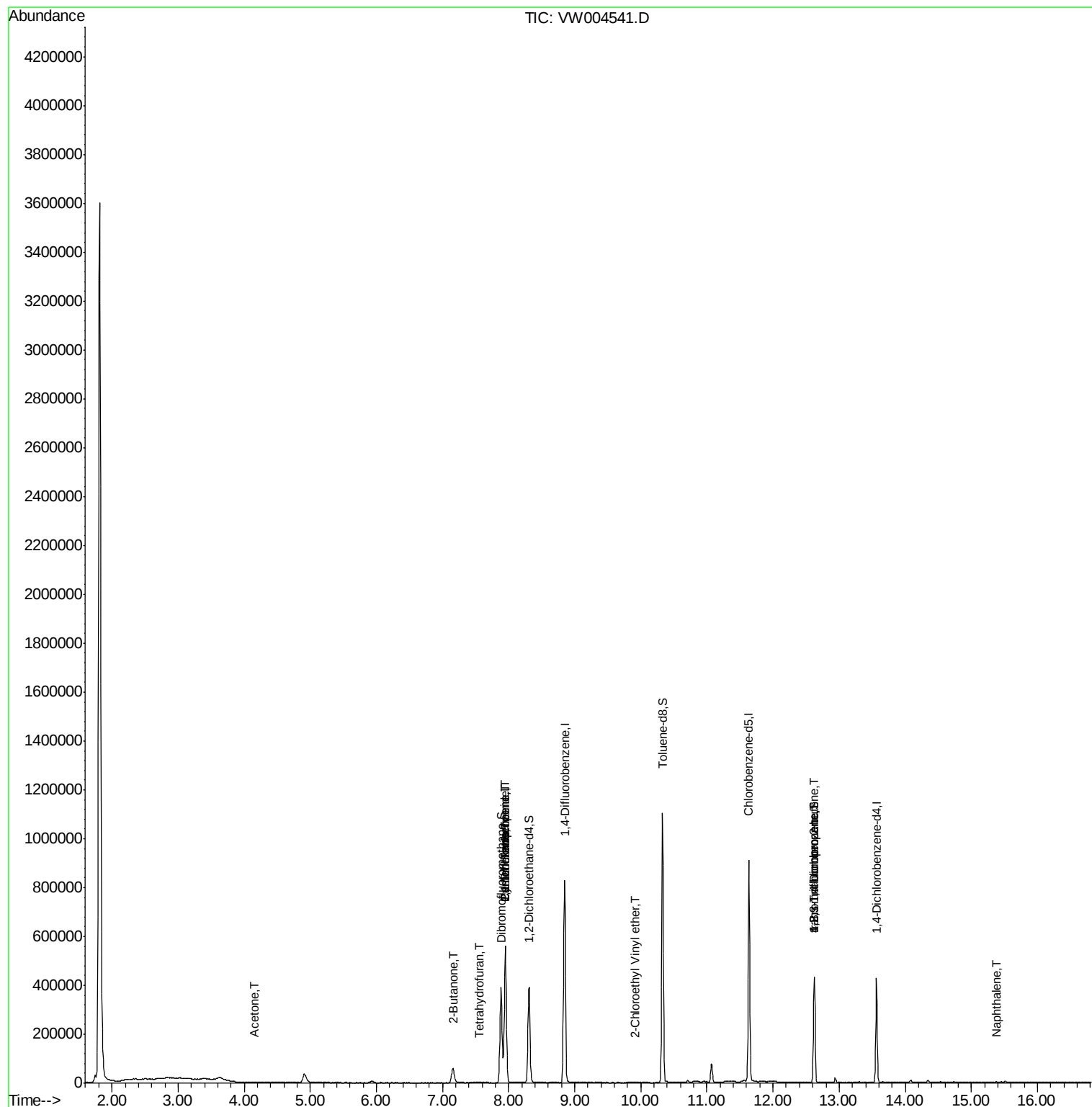
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.15  | 43   | 3293     | 2.873     | ug/l   | 90     |
| 20) Methylene Chloride         | 4.90  | 84   | 33133    | Below Cal |        | 92     |
| 25) 2-Butanone                 | 7.16  | 43   | 3552     | 1.926     | ug/l # | 63     |
| 29) Tetrahydrofuran            | 7.56  | 42   | 1473     | 1.545     | ug/l # | 71     |
| 31) Cyclohexane                | 7.95  | 56   | 8927     | 1.038     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 33392    | 4.506     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 39739    | 5.960     | ug/l # | 17     |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 45       | 8.961     | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 69753    | 59.112    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 69753    | 141.506   | ug/l # | 13     |
| 95) Naphthalene                | 15.38 | 128  | 976      | 3.095     | ug/l # | 91     |

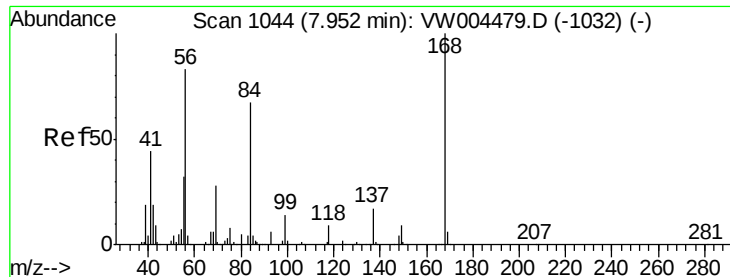
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW081018\  
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Sample : J4313-01RE  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C-5RE

Quant Time: Aug 09 05:16:27 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 08:22:01 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

Instrument :

MSVOA\_W

ClientSampled :

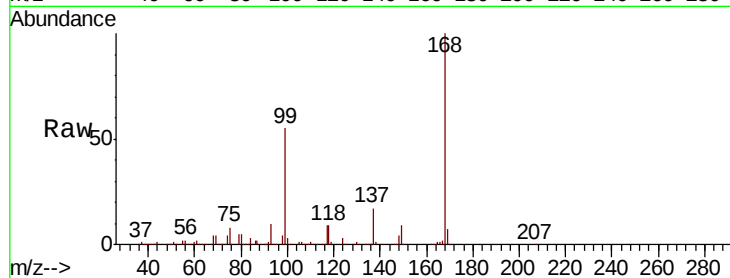
C-5RE

Tgt Ion:168 Resp: 414658

Ion Ratio Lower Upper

168 100

99 55.4 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

100000

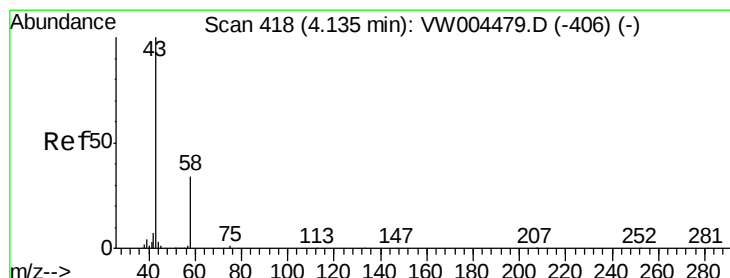
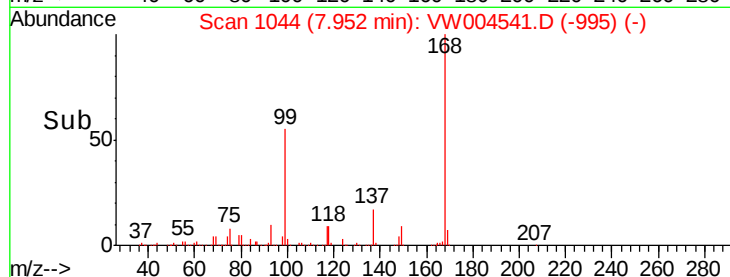
50000

0

7.90

8.00

Time-->



#16

Acetone

Concen: 2.873 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.01 min

Lab File: VW004541.D

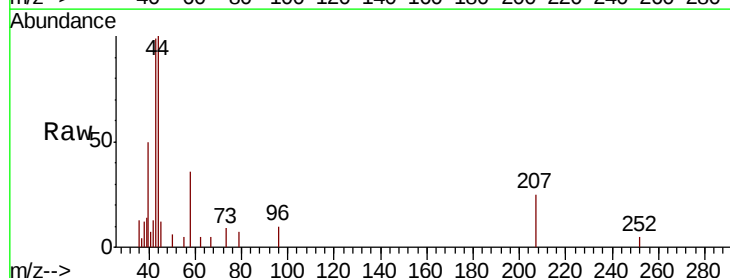
Acq: 08 Aug 2018 21:35

Tgt Ion: 43 Resp: 3293

Ion Ratio Lower Upper

43 100

58 39.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.15

1000

500

0

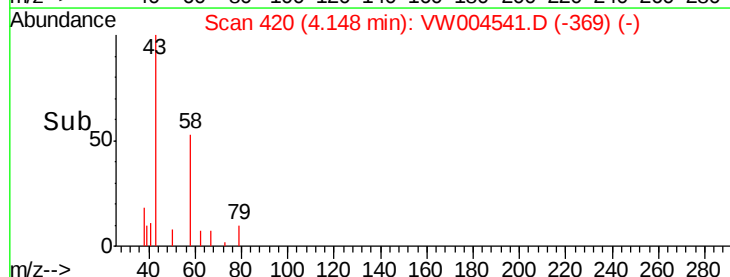
4.05

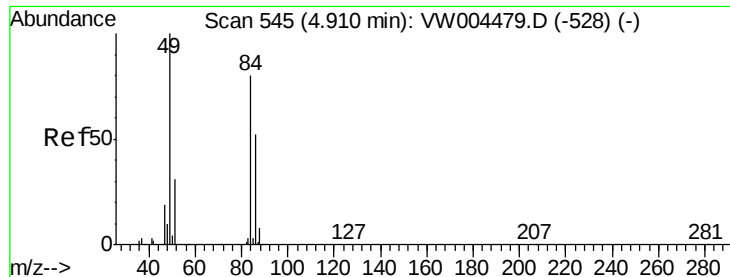
4.10

4.15

4.20

Time-->

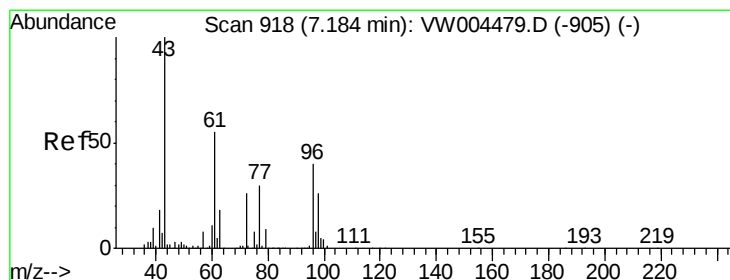
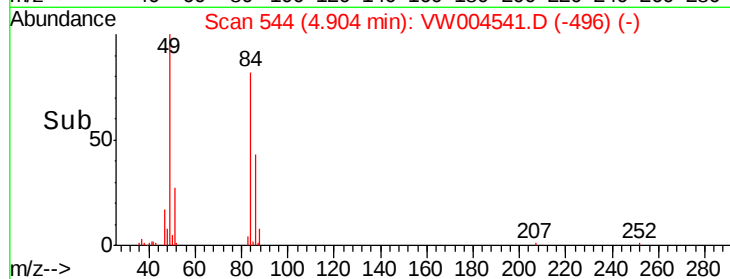
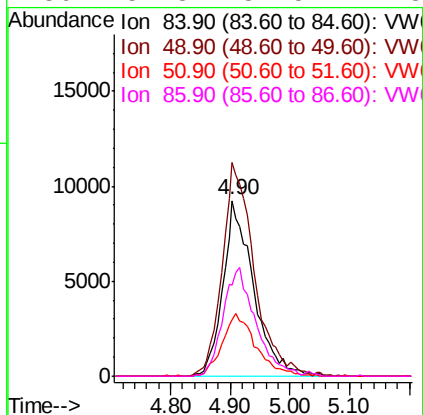
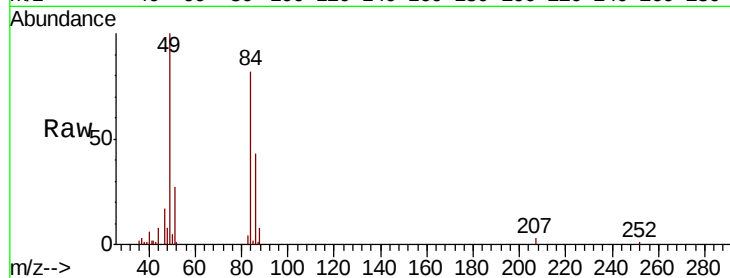




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.90 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: VW004541.D  
Acq: 08 Aug 2018 21:35

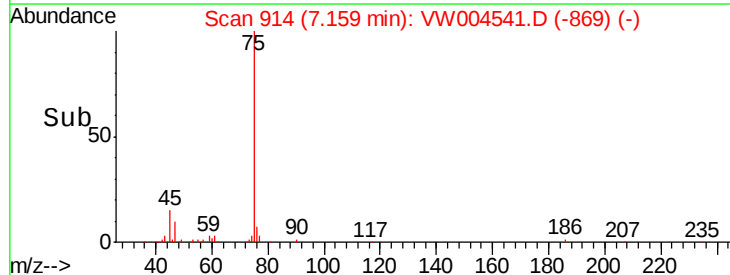
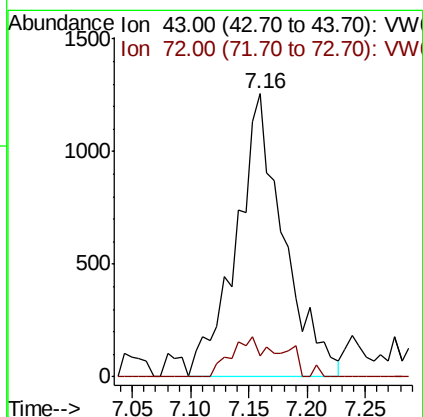
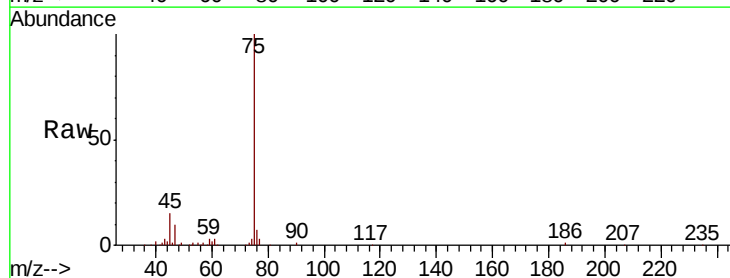
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-5RE

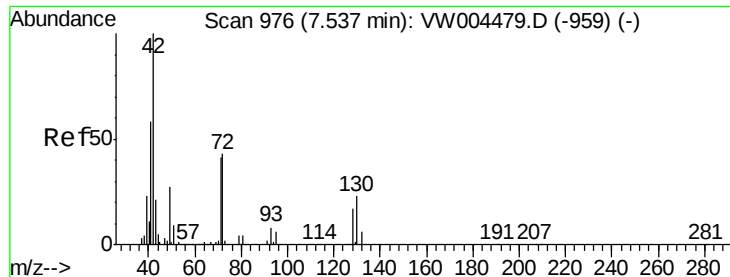
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 33133 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 121.8 | 99.6  | 149.4 |
| 51       | 32.3  | 31.0  | 46.4  |
| 86       | 51.8  | 51.5  | 77.3  |



#25  
2-Butanone  
Concen: 1.926 ug/l  
RT: 7.16 min Scan# 914  
Delta R.T. -0.02 min  
Lab File: VW004541.D  
Acq: 08 Aug 2018 21:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3552  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 7.3   | 21.0  | 31.6# |





#29

Tetrahydrofuran

Concen: 1.545 ug/l

RT: 7.56 min Scan# 979

Delta R.T. 0.02 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

Instrument :

MSVOA\_W

ClientSampled :

C-5RE

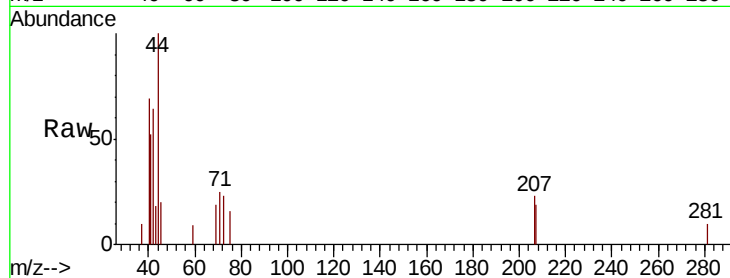
Tgt Ion: 42 Resp: 1473

Ion Ratio Lower Upper

42 100

72 32.5 34.1 51.1#

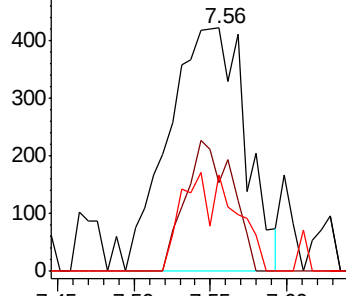
71 14.7 32.5 48.7#



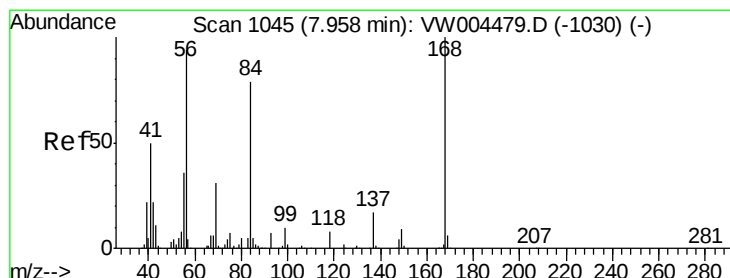
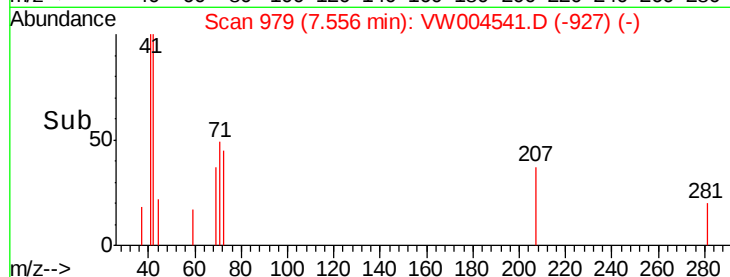
Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



Time-->



#31

Cyclohexane

Concen: 1.038 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

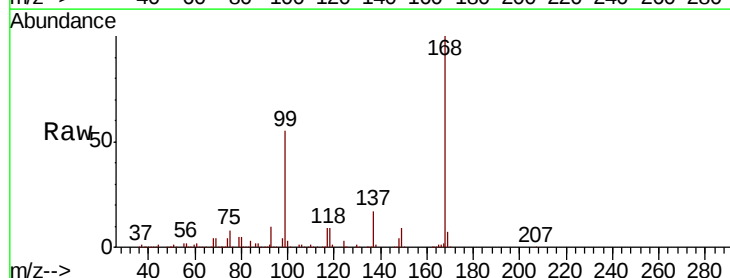
Tgt Ion: 56 Resp: 8927

Ion Ratio Lower Upper

56 100

69 202.5 26.4 39.6#

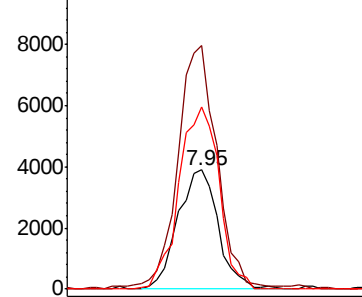
84 152.9 66.9 100.3#



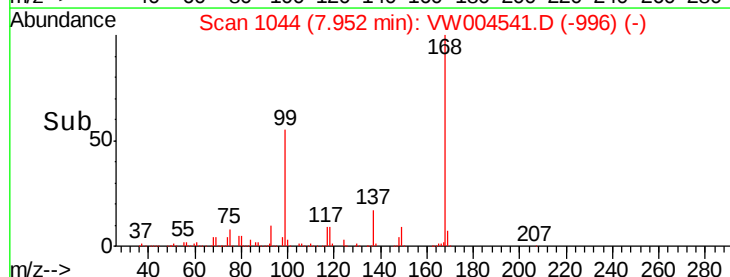
Abundance Ion 56.00 (55.70 to 56.70): VW

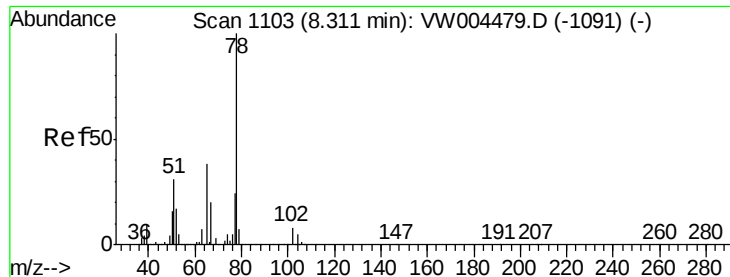
Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



Time-->





#33

1,2-Dichloroethane-d4

Concen: 66.688 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

Instrument :

MSVOA\_W

ClientSampleId :

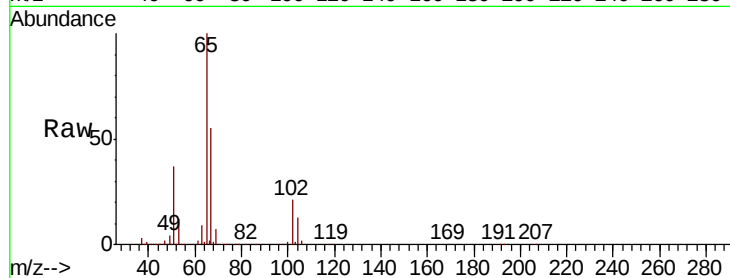
C-5RE

Tgt Ion: 65 Resp: 306109

Ion Ratio Lower Upper

65 100

67 55.0 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

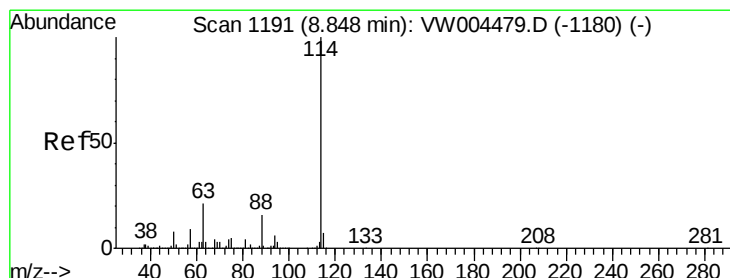
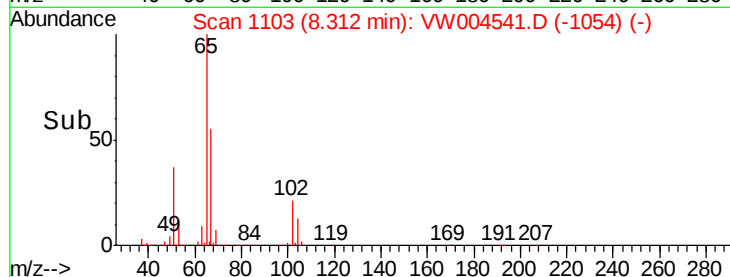
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

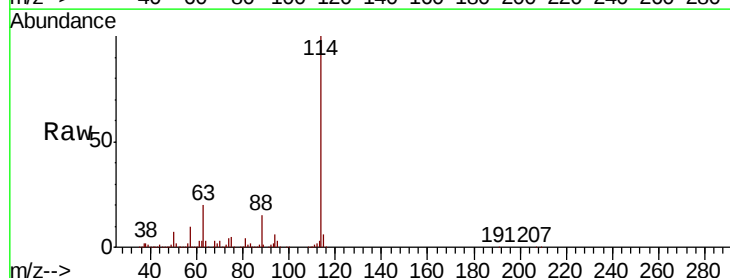
Tgt Ion: 114 Resp: 688200

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.4

88 15.2 0.0 31.2



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

500000

400000

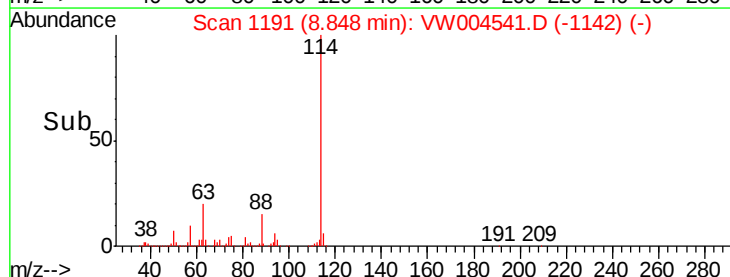
300000

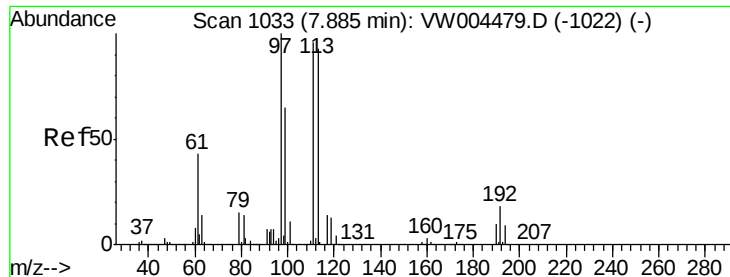
200000

100000

0

Time-->

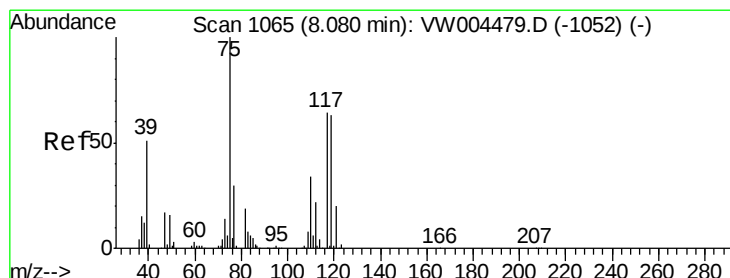
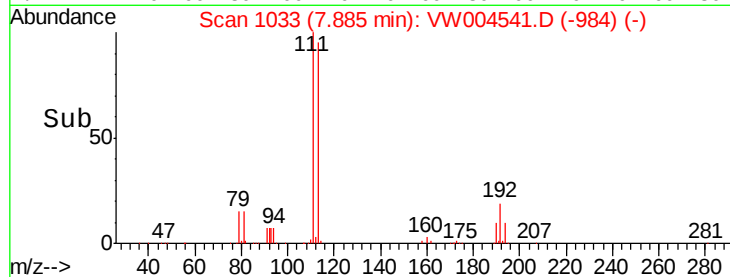
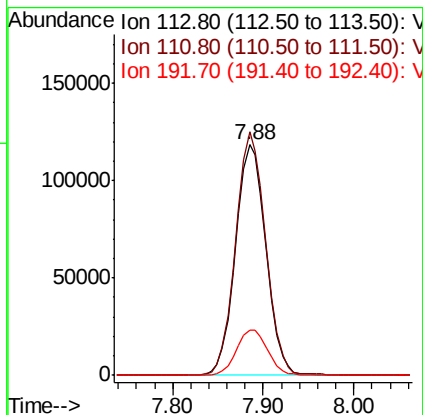
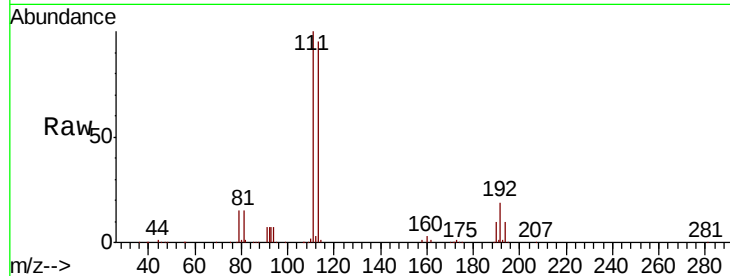




#35  
 Dibromofluoromethane  
 Concen: 60.530 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004541.D  
 Acq: 08 Aug 2018 21:35

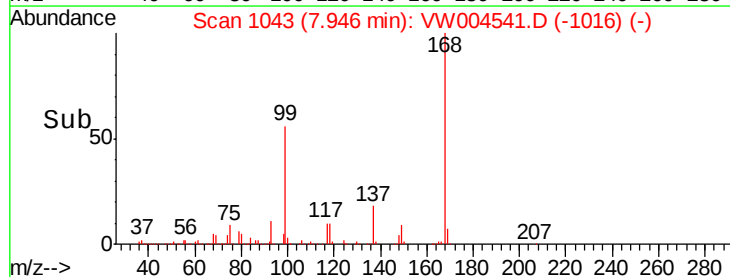
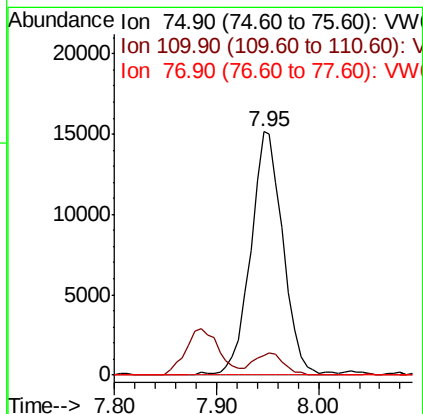
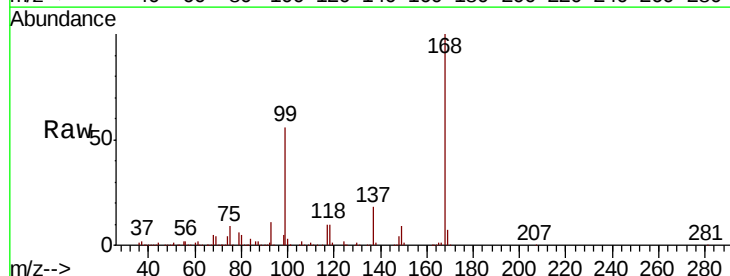
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-5RE

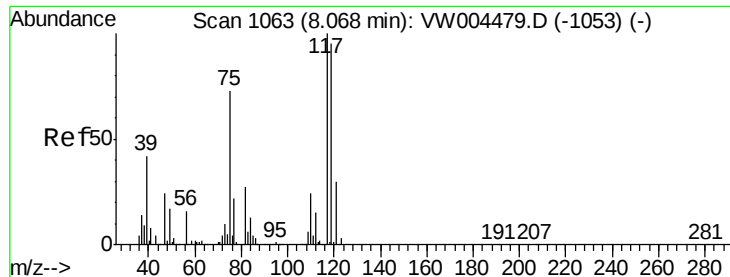
Tgt Ion: 113 Resp: 277753  
 Ion Ratio Lower Upper  
 113 100  
 111 103.8 82.9 124.3  
 192 20.2 15.8 23.6



#36  
 1,1-Dichloropropene  
 Concen: 4.506 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW004541.D  
 Acq: 08 Aug 2018 21:35

Tgt Ion: 75 Resp: 33392  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 17.4 52.2#  
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.960 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

Instrument :

MSVOA\_W

ClientSampleId :

C-5RE

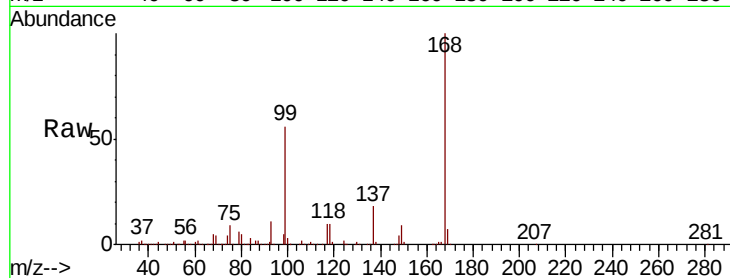
Tgt Ion:117 Resp: 39739

Ion Ratio Lower Upper

117 100

119 5.7 76.1 114.1#

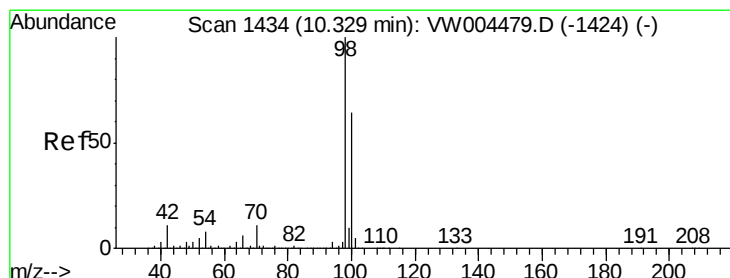
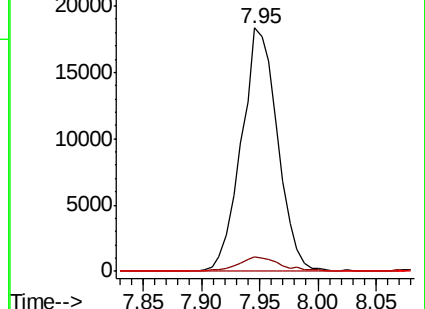
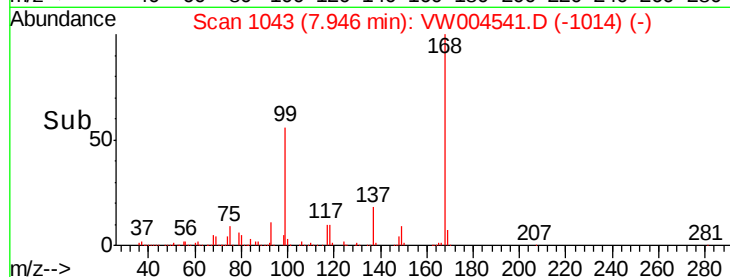
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 42.026 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004541.D

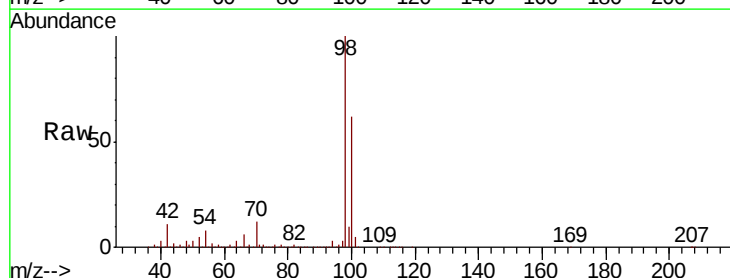
Acq: 08 Aug 2018 21:35

Tgt Ion: 98 Resp: 735203

Ion Ratio Lower Upper

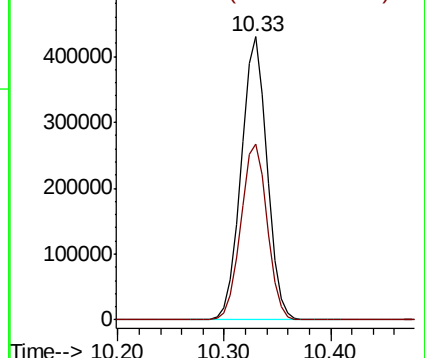
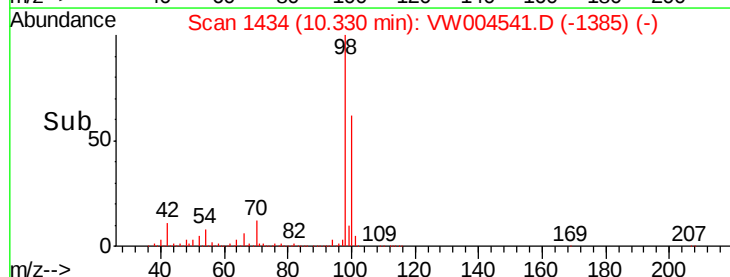
98 100

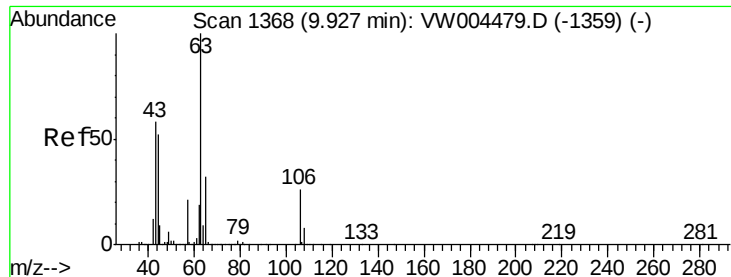
100 63.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

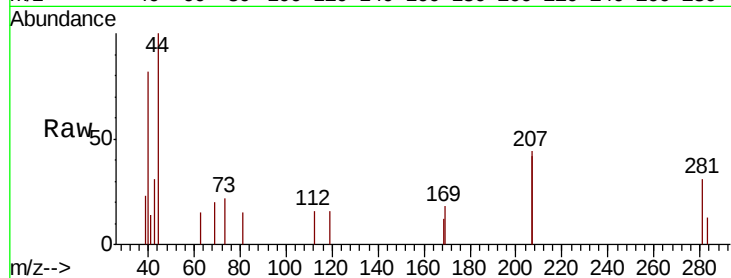




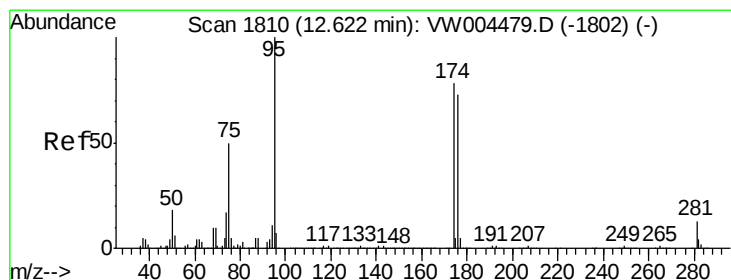
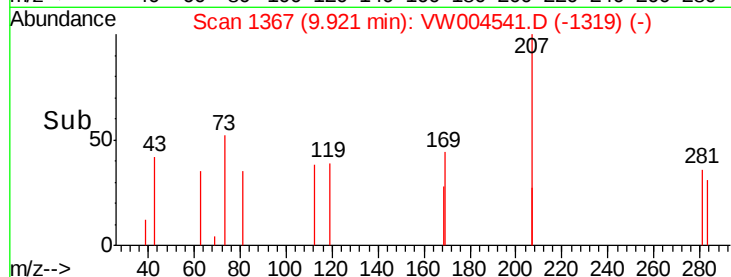
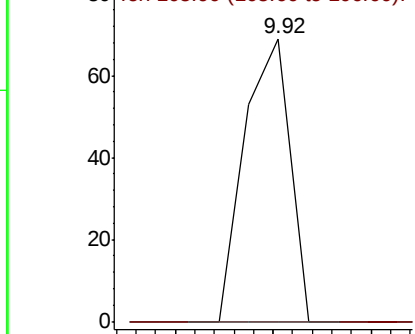
#58  
 2-Chloroethyl Vinyl ether  
 Concen: 8.961 ug/l  
 RT: 9.92 min Scan# 1367  
 Delta R.T. -0.00 min  
 Lab File: VW004541.D  
 Acq: 08 Aug 2018 21:35

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 C-5RE

Tgt Ion: 63 Resp: 45  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 21.3 31.9#

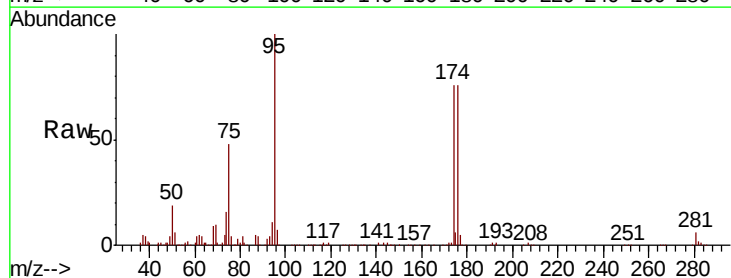


Abundance Ion 62.90 (62.60 to 63.60): VW  
 Ion 105.90 (105.60 to 106.60): V

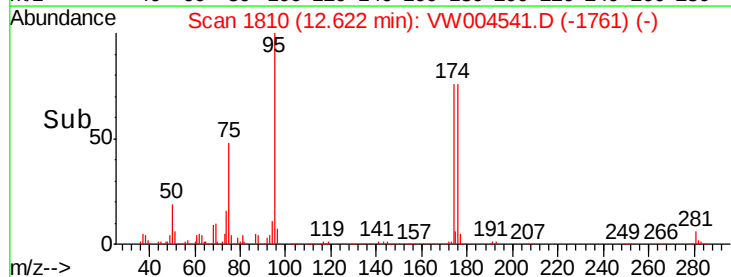
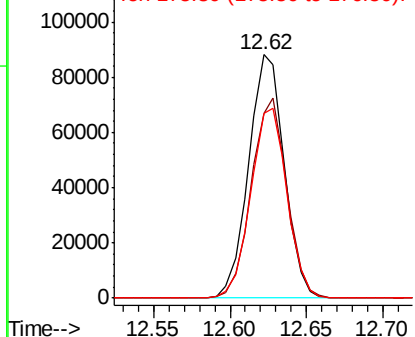


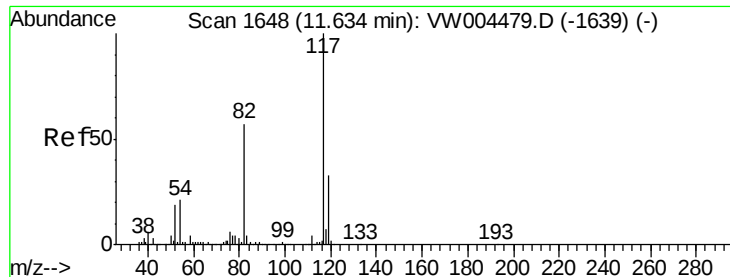
#62  
 4-Bromofluorobenzene  
 Concen: 22.699 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VW004541.D  
 Acq: 08 Aug 2018 21:35

Tgt Ion: 95 Resp: 143042  
 Ion Ratio Lower Upper  
 95 100  
 174 81.9 0.0 160.4  
 176 79.1 0.0 153.2



Abundance Ion 94.90 (94.60 to 95.60): VW  
 Ion 173.80 (173.50 to 174.50): V  
 Ion 175.80 (175.50 to 176.50): V

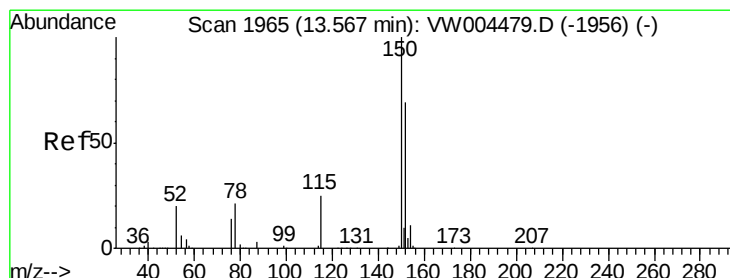
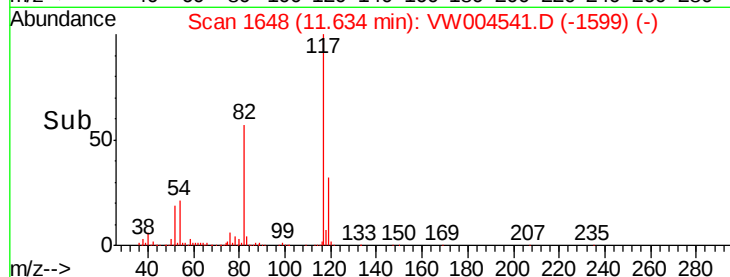
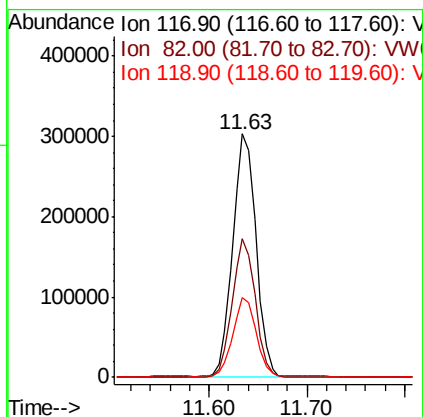
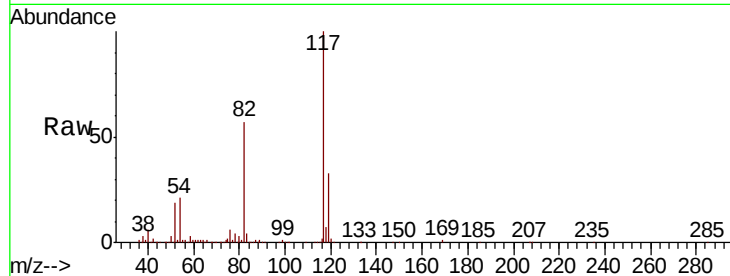




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004541.D  
Acq: 08 Aug 2018 21:35

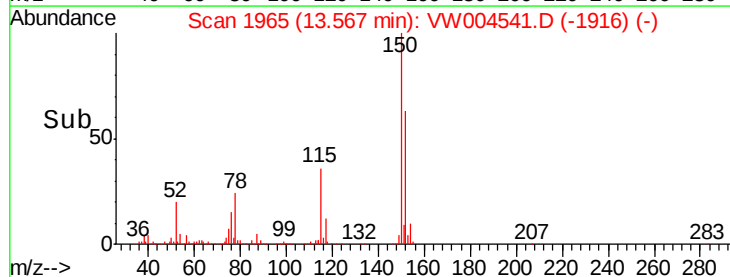
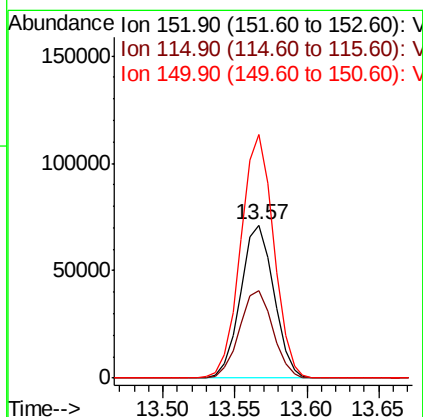
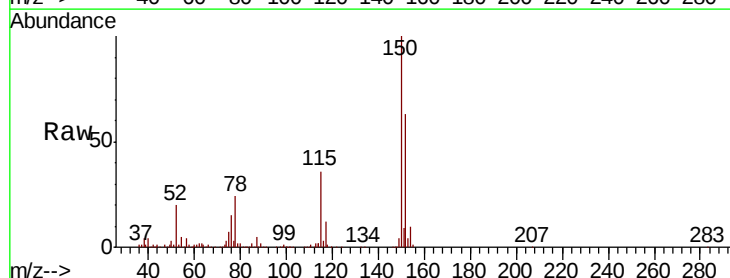
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-5RE

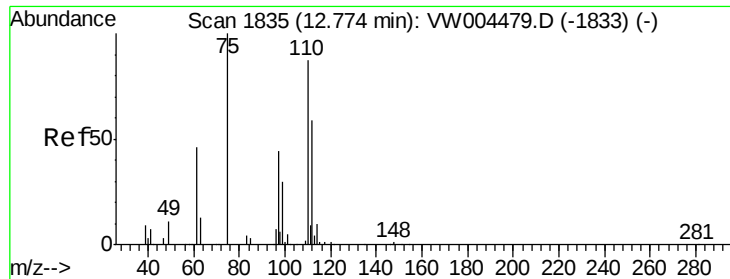
Tgt Ion:117 Resp: 503952  
Ion Ratio Lower Upper  
117 100  
82 57.2 45.3 67.9  
119 32.2 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW004541.D  
Acq: 08 Aug 2018 21:35

Tgt Ion:152 Resp: 114036  
Ion Ratio Lower Upper  
152 100  
115 57.6 29.1 87.3  
150 157.7 0.0 349.6





#76

1,2,3-Trichloropropane

Concen: 59.112 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

Instrument :

MSVOA\_W

ClientSampleId :

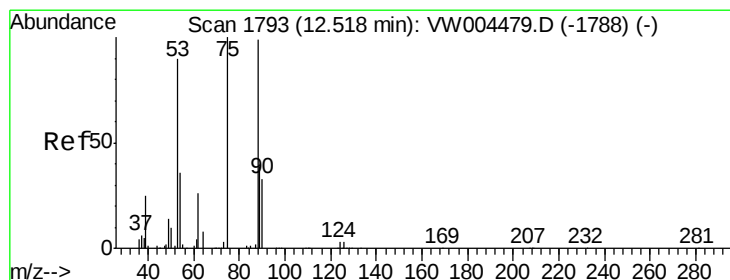
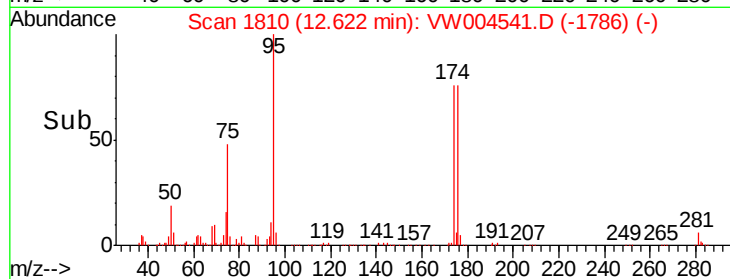
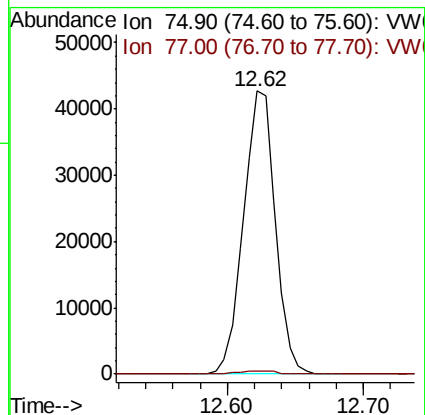
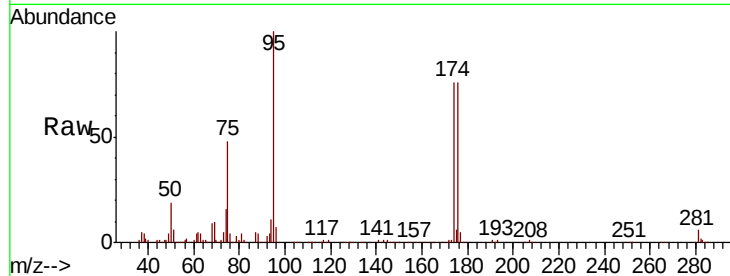
C-5RE

Tgt Ion: 75 Resp: 69753

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 141.506 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

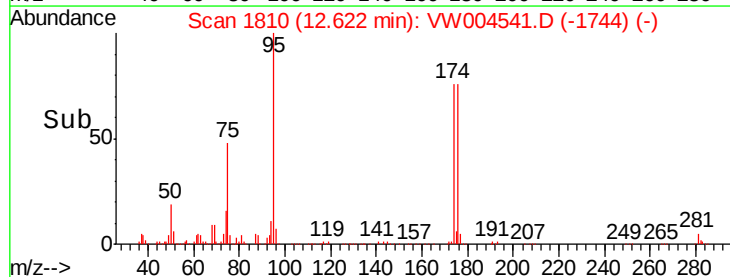
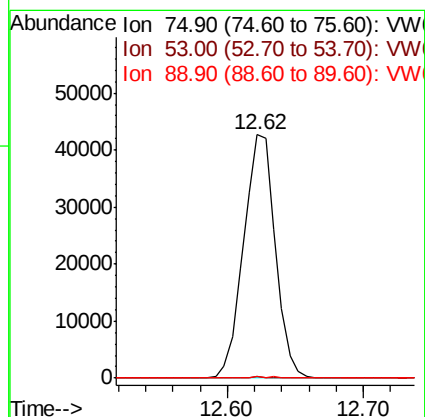
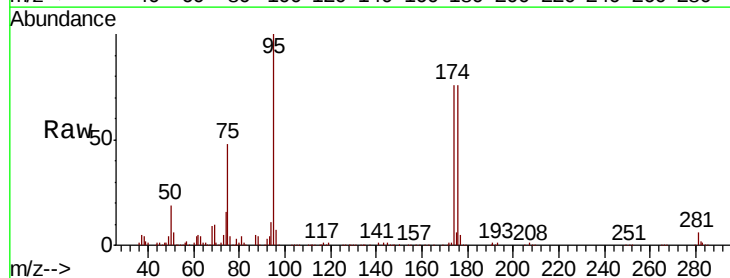
Tgt Ion: 75 Resp: 69753

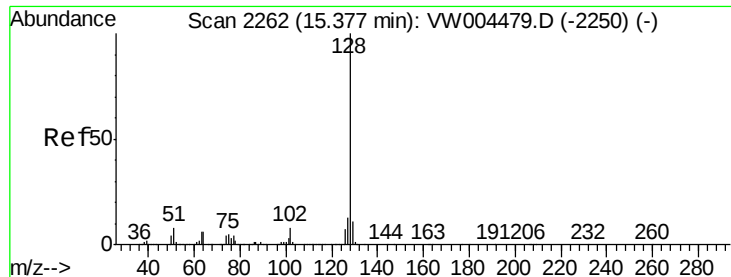
Ion Ratio Lower Upper

75 100

53 0.5 74.4 111.6#

89 0.3 35.9 53.9#





#95

Naphthalene

Concen: 3.095 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW004541.D

Acq: 08 Aug 2018 21:35

Instrument :

MSVOA\_W

ClientSampleId :

C-5RE

Tgt Ion:128 Resp: 976

Ion Ratio Lower Upper

128 100

127 15.6 10.3 15.5#

129 6.4 8.6 13.0#

