

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081018\  
 Data File : VW004540.D  
 Acq On : 08 Aug 2018 21:09  
 Operator : SY/AP  
 Sample : J4310-07RE  
 Misc : 3.81G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-4RE

Quant Time: Aug 09 05:16:18 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  | 411375   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 644708   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 453543   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 95762    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 298177   | 65.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 130.96% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 270050   | 62.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 125.64% |          |
| 50) Toluene-d8              | 10.33 | 98   | 705896   | 43.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.14%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 121660   | 20.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 41.22%  |          |

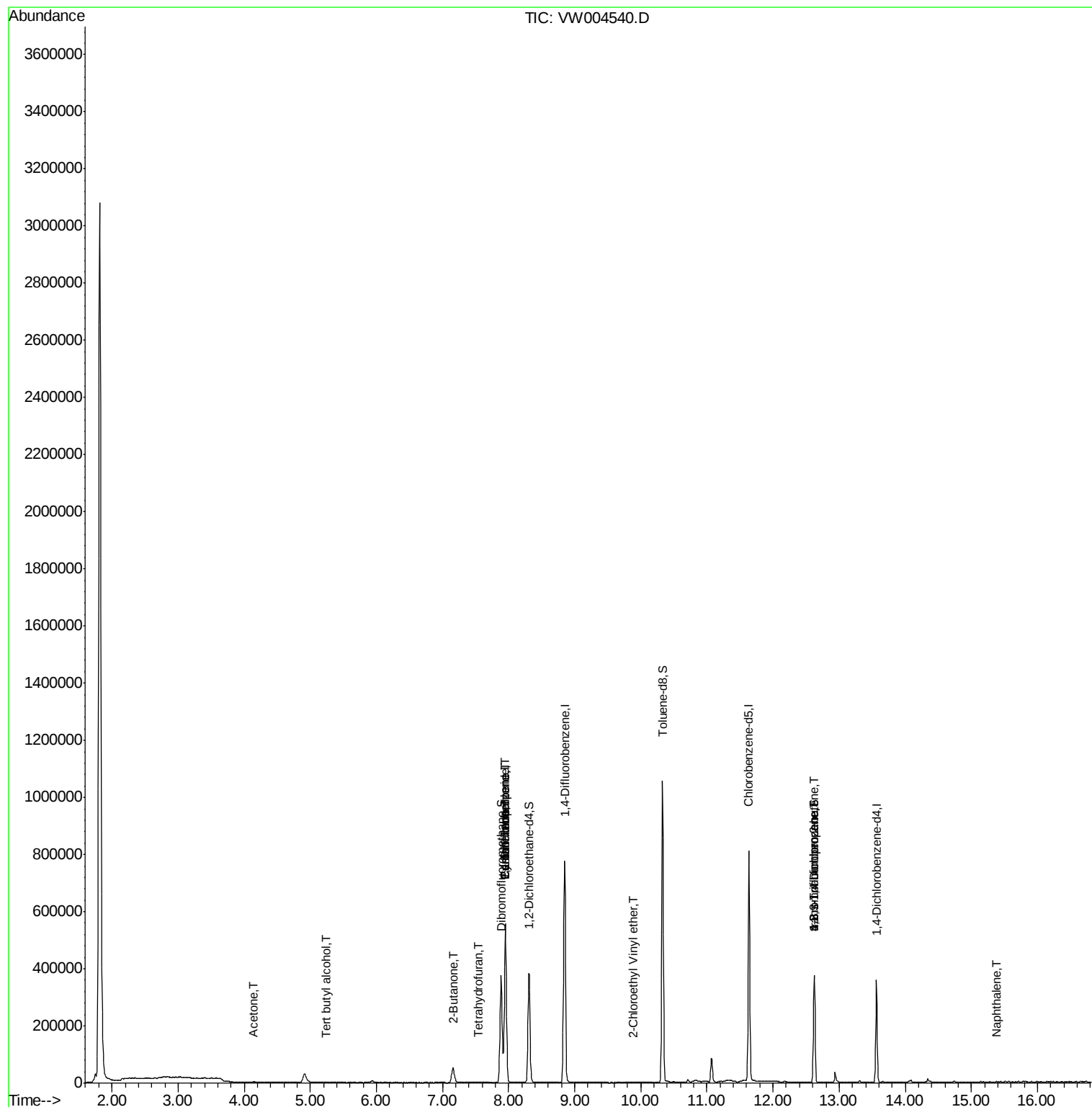
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.24  | 59   | 334      | 1.253     | ug/l # | 70     |
| 16) Acetone                    | 4.14  | 43   | 3637     | 3.198     | ug/l   | 90     |
| 20) Methylene Chloride         | 4.92  | 84   | 29675    | Below Cal |        | 91     |
| 25) 2-Butanone                 | 7.17  | 43   | 3230     | 1.766     | ug/l   | 92     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 1616     | 1.709     | ug/l # | 72     |
| 31) Cyclohexane                | 7.95  | 56   | 8856     | 1.038     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 31749    | 4.574     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 39629    | 6.344     | ug/l # | 18     |
| 58) 2-Chloroethyl Vinyl ether  | 9.88  | 63   | 19       | 8.952     | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 59878    | 60.426    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 59878    | 144.653   | ug/l # | 13     |
| 95) Naphthalene                | 15.37 | 128  | 1224     | 3.184     | ug/l # | 77     |

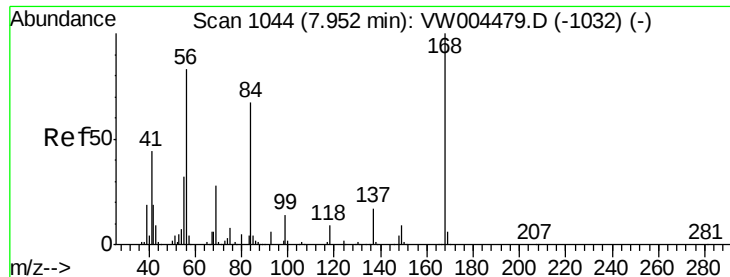
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW081018\  
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MSVOA\_W  
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C-4RE

Quant Time: Aug 09 05:16:18 2018  
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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: VW004540.D

Acq: 08 Aug 2018 21:09

Instrument :

MSVOA\_W

ClientSampled :

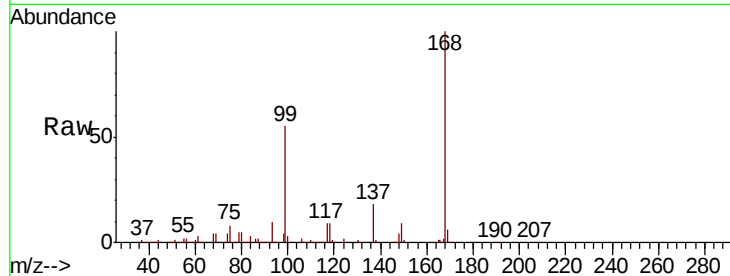
C-4RE

Tgt Ion:168 Resp: 411375

Ion Ratio Lower Upper

168 100

99 55.1 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

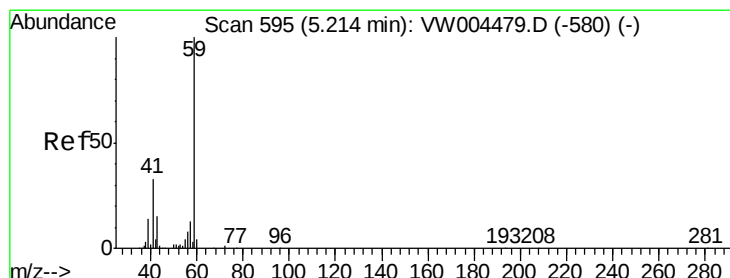
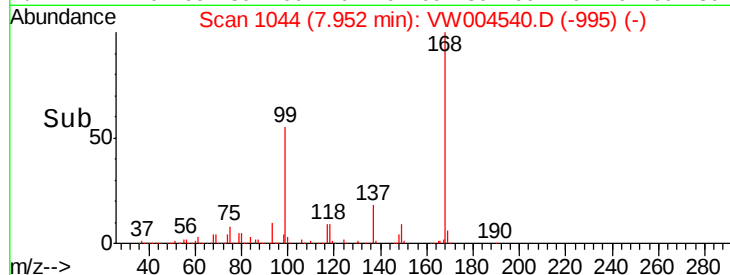
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.253 ug/l

RT: 5.24 min Scan# 599

Delta R.T. 0.02 min

Lab File: VW004540.D

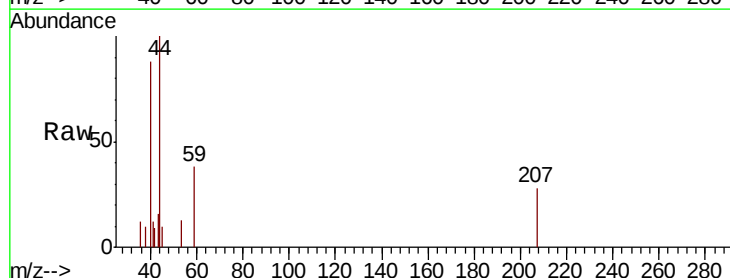
Acq: 08 Aug 2018 21:09

Tgt Ion: 59 Resp: 334

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.24

250

200

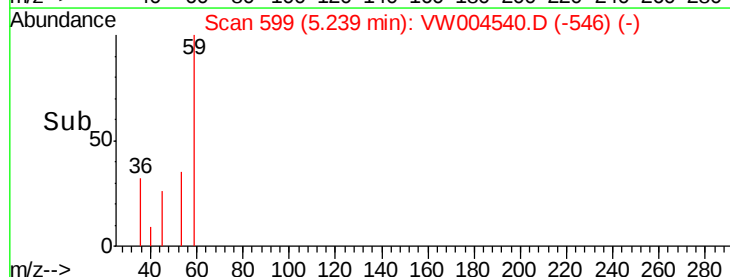
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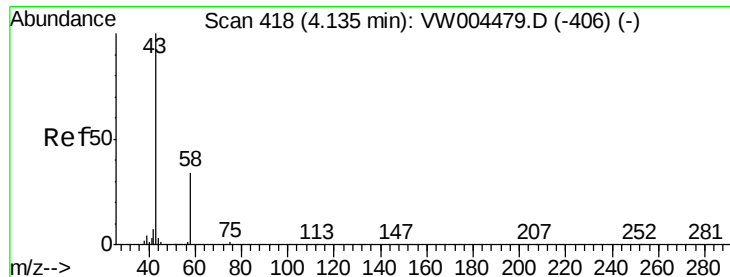
100

50

0

Time-->

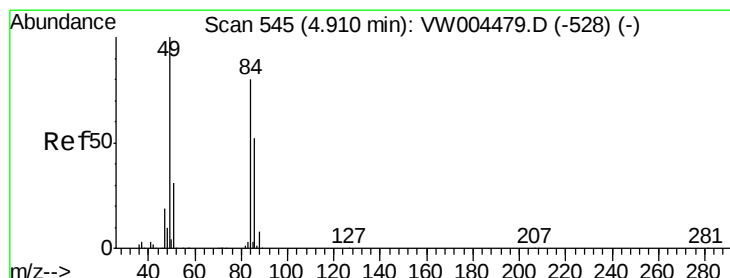
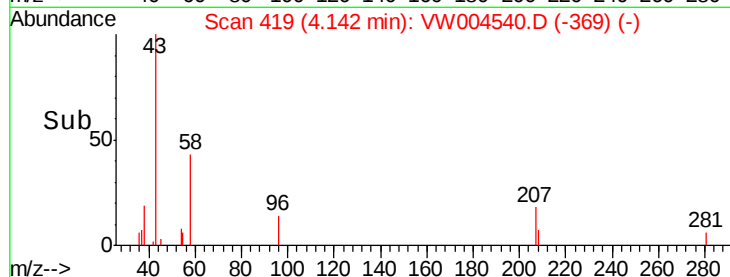
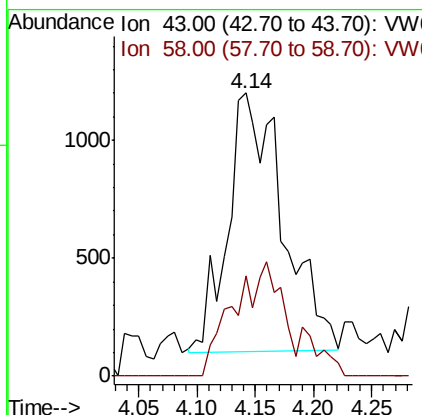
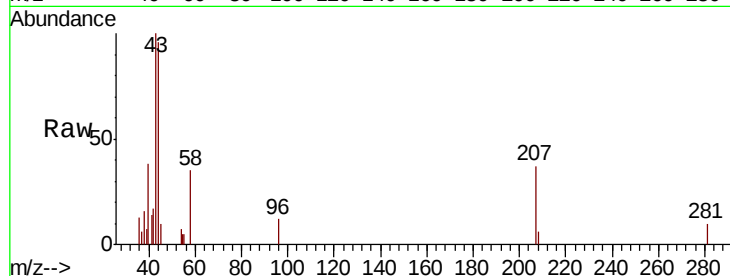




#16  
Acetone  
Concen: 3.198 ug/l  
RT: 4.14 min Scan# 419  
Delta R.T. 0.01 min  
Lab File: VW004540.D  
Acq: 08 Aug 2018 21:09

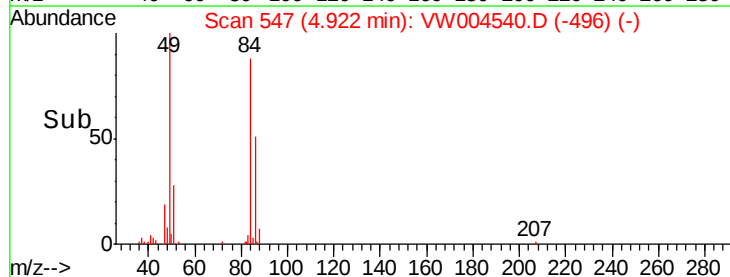
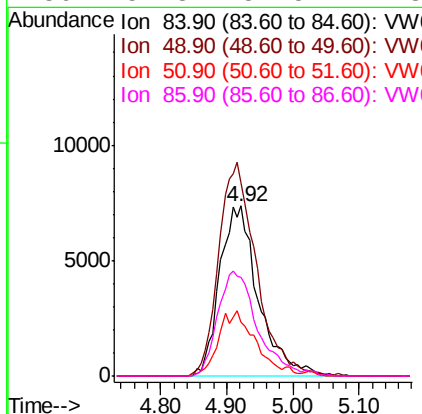
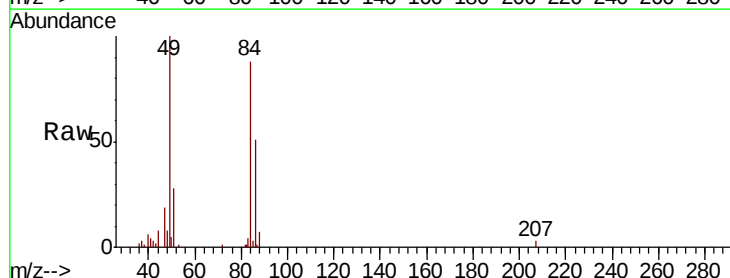
Instrument :  
MSVOA\_W  
ClientSampled :  
C-4RE

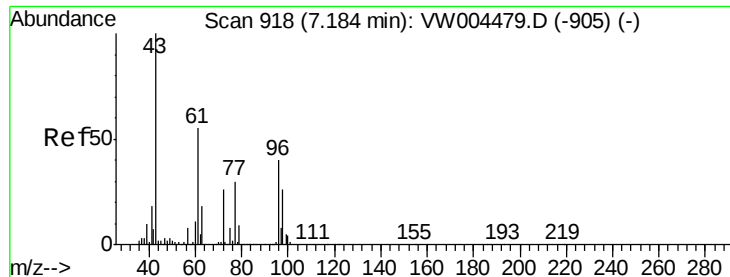
Tgt Ion: 43 Resp: 3637  
Ion Ratio Lower Upper  
43 100  
58 39.2 26.8 40.2



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 547  
Delta R.T. 0.01 min  
Lab File: VW004540.D  
Acq: 08 Aug 2018 21:09

Tgt Ion: 84 Resp: 29675  
Ion Ratio Lower Upper  
84 100  
49 114.1 99.6 149.4  
51 31.8 31.0 46.4  
86 57.8 51.5 77.3





#25

2-Butanone

Concen: 1.766 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.02 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

Instrument :

MSVOA\_W

ClientSampled :

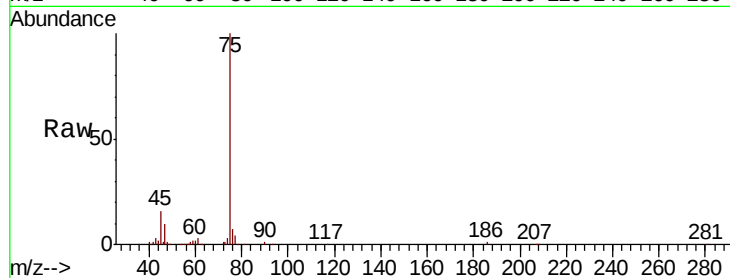
C-4RE

Tgt Ion: 43 Resp: 3230

Ion Ratio Lower Upper

43 100

72 22.3 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.17

1200

1000

800

600

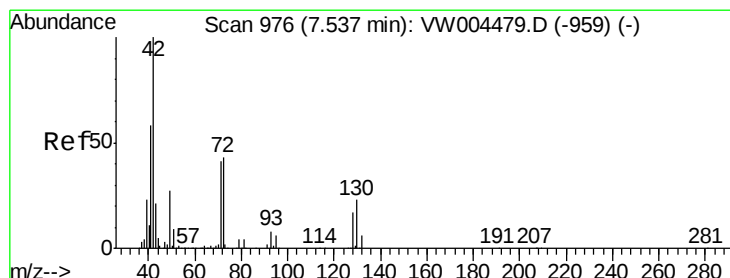
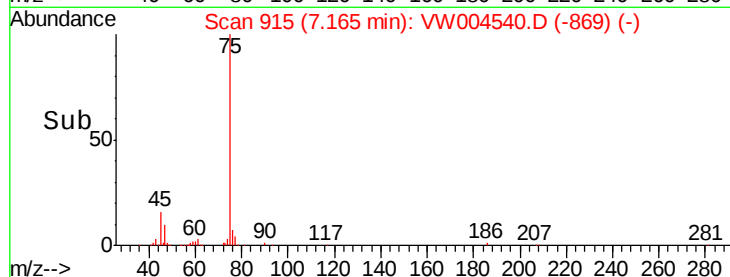
400

200

0

7.05 7.10 7.15 7.20 7.25

Time-->



#29

Tetrahydrofuran

Concen: 1.709 ug/l

RT: 7.54 min Scan# 976

Delta R.T. 0.00 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

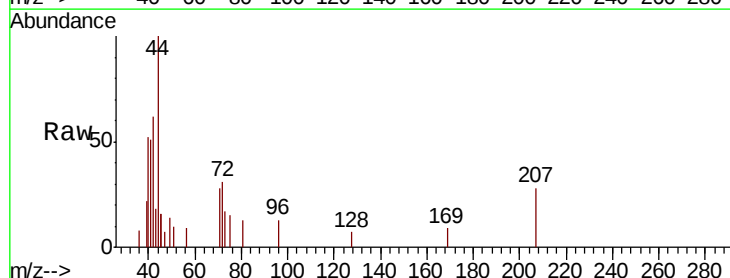
Tgt Ion: 42 Resp: 1616

Ion Ratio Lower Upper

42 100

72 29.3 34.1 51.1#

71 18.3 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

600

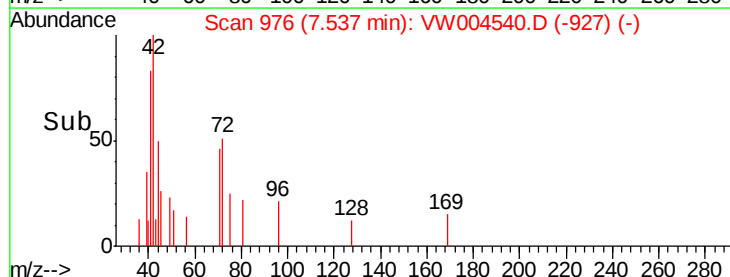
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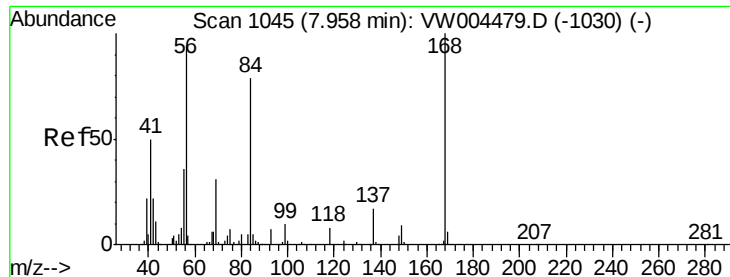
200

0

7.45 7.50 7.55 7.60

Time-->





#31

Cyclohexane

Concen: 1.038 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

Instrument :

MSVOA\_W

ClientSampleId :

C-4RE

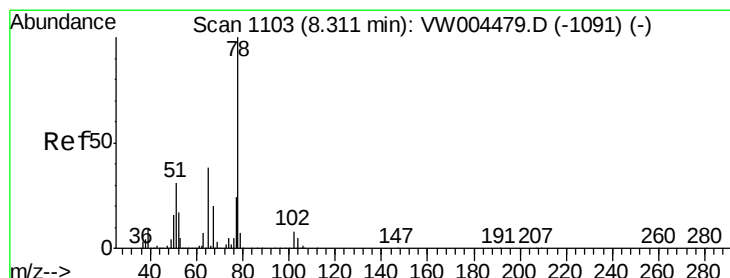
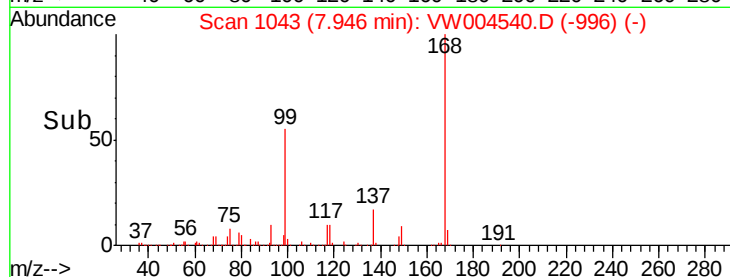
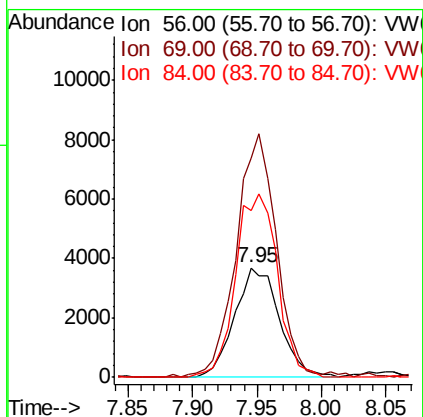
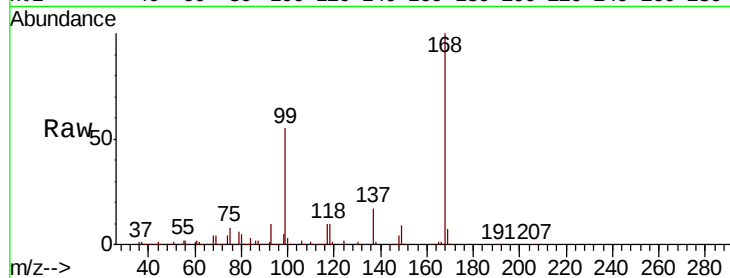
Tgt Ion: 56 Resp: 8856

Ion Ratio Lower Upper

56 100

69 198.0 26.4 39.6#

84 152.4 66.9 100.3#



#33

1,2-Dichloroethane-d4

Concen: 65.479 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VW004540.D

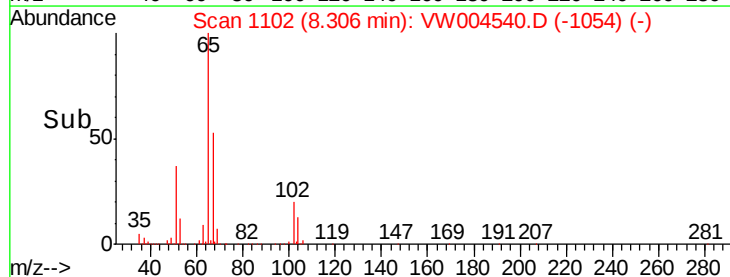
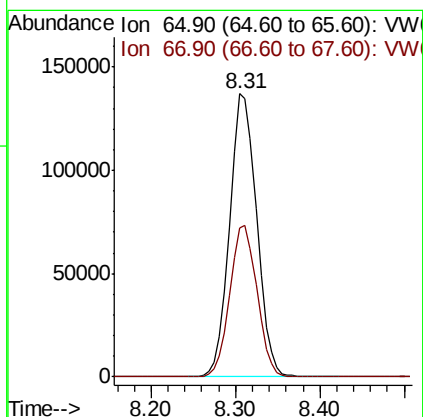
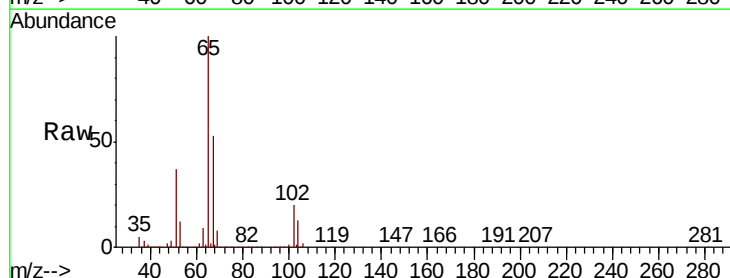
Acq: 08 Aug 2018 21:09

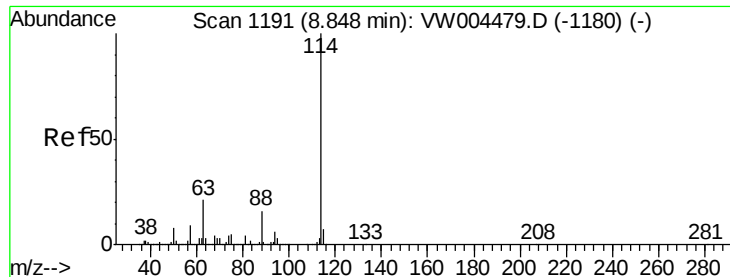
Tgt Ion: 65 Resp: 298177

Ion Ratio Lower Upper

65 100

67 53.7 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

Instrument :

MSVOA\_W

ClientSampleId :

C-4RE

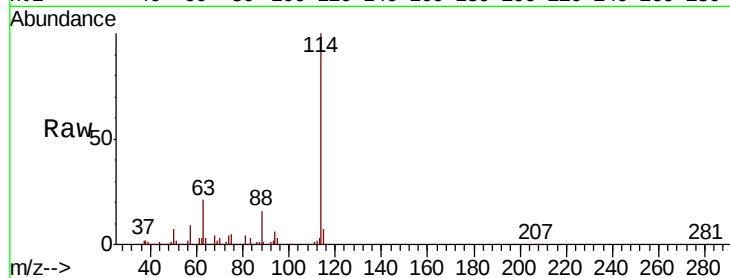
Tgt Ion:114 Resp: 644708

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.4

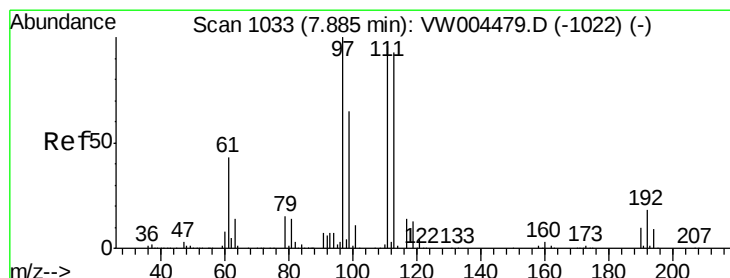
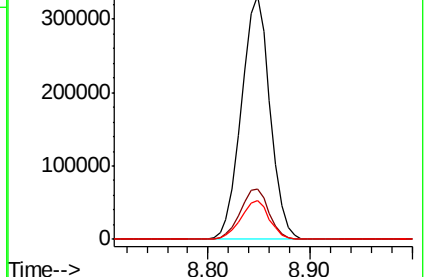
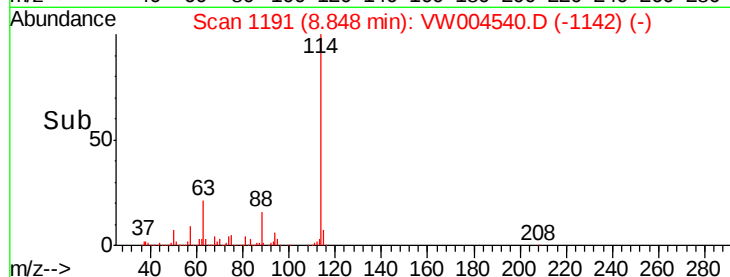
88 15.8 0.0 31.2



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



#35

Dibromofluoromethane

Concen: 62.821 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

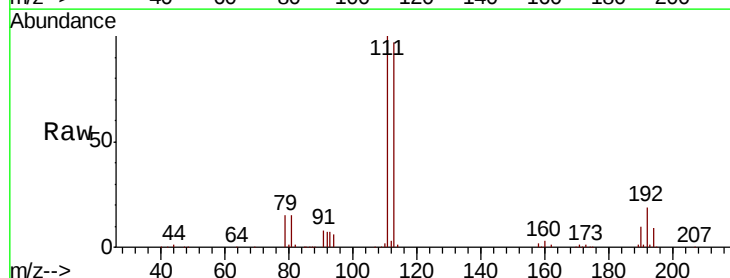
Tgt Ion:113 Resp: 270050

Ion Ratio Lower Upper

113 100

111 102.3 82.9 124.3

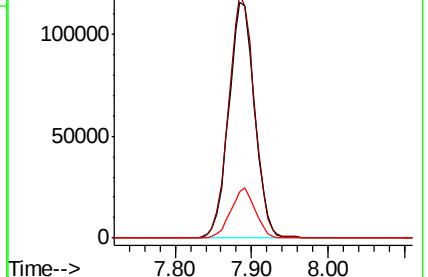
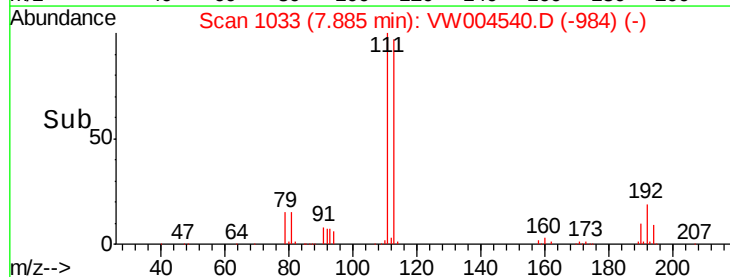
192 20.1 15.8 23.6

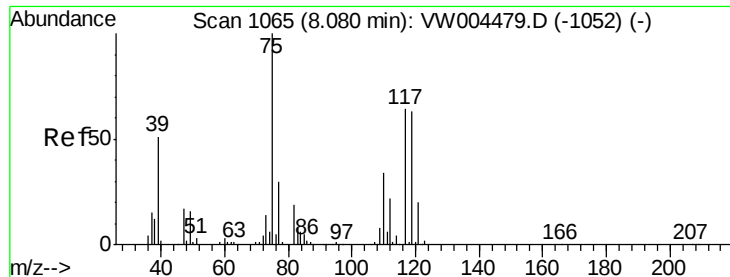


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

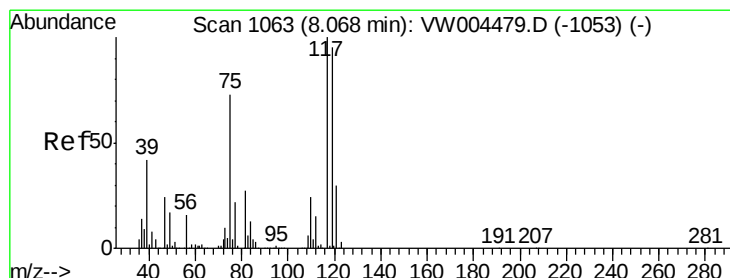
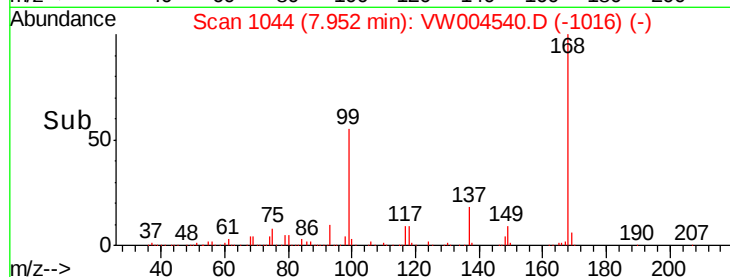
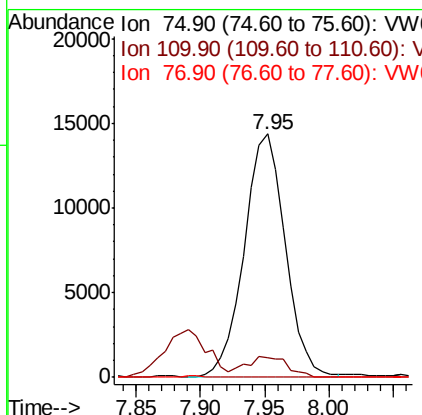
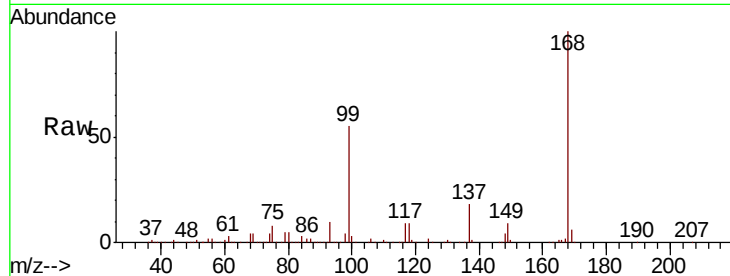




#36  
 1,1-Dichloropropene  
 Concen: 4.574 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW004540.D  
 Acq: 08 Aug 2018 21:09

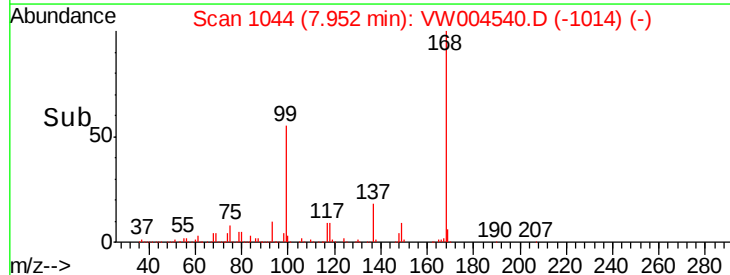
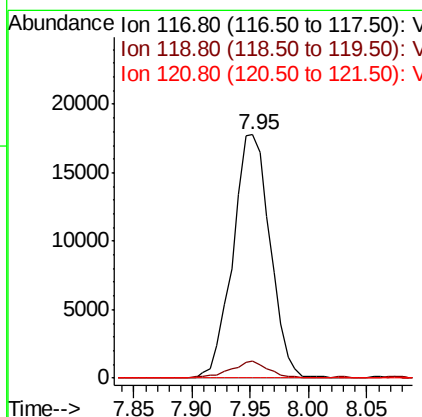
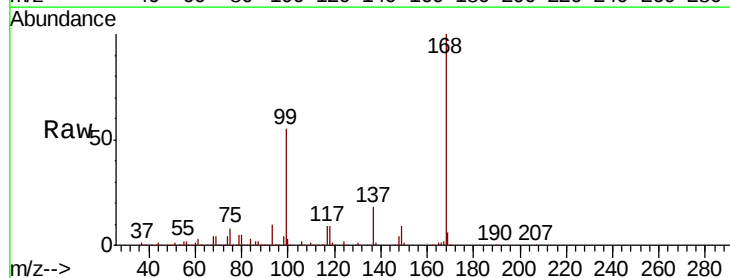
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-4RE

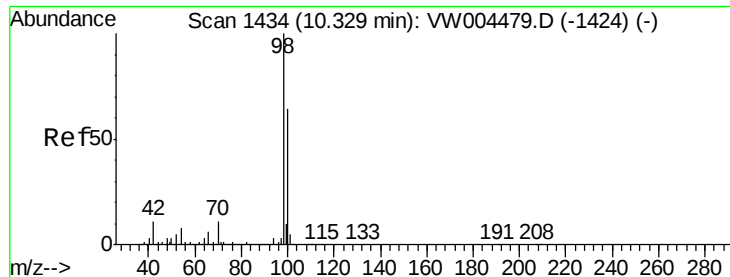
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.7   | 17.4  | 52.2# |
| 77      | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.344 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.12 min  
 Lab File: VW004540.D  
 Acq: 08 Aug 2018 21:09

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 7.2   | 76.1  | 114.1# |
| 121     | 0.0   | 24.2  | 36.4#  |





#50

Toluene-d8

Concen: 43.073 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

Instrument :

MSVOA\_W

ClientSampleId :

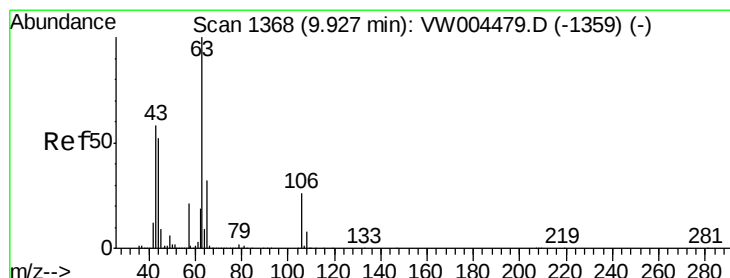
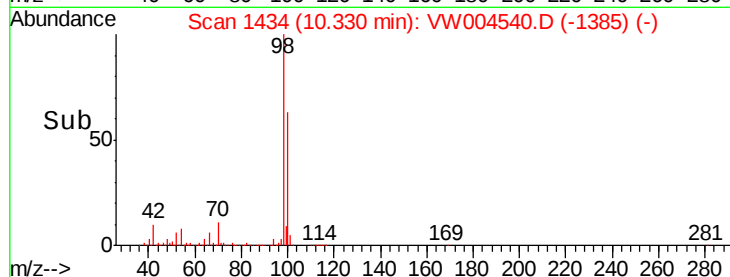
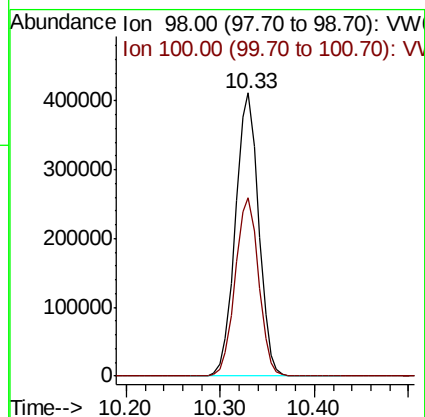
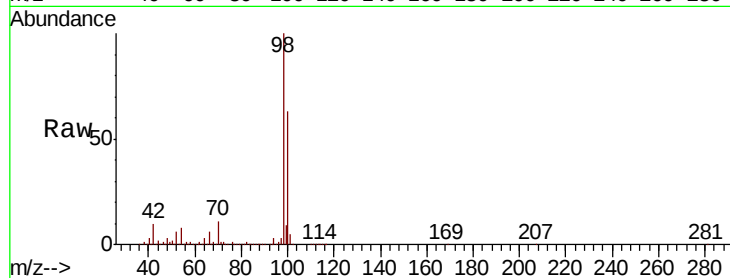
C-4RE

Tgt Ion: 98 Resp: 705896

Ion Ratio Lower Upper

98 100

100 63.2 51.4 77.2



#58

2-Chloroethyl Vinyl ether

Concen: 8.952 ug/l

RT: 9.88 min Scan# 1360

Delta R.T. -0.05 min

Lab File: VW004540.D

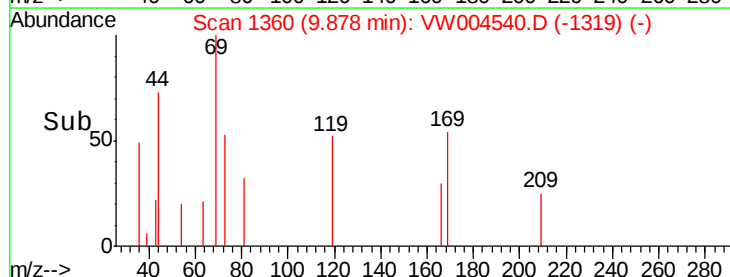
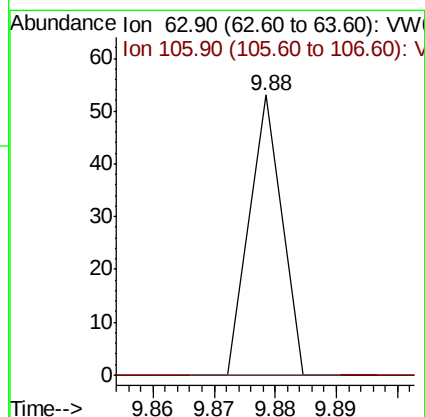
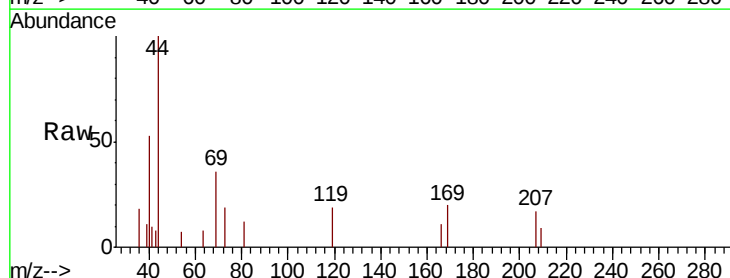
Acq: 08 Aug 2018 21:09

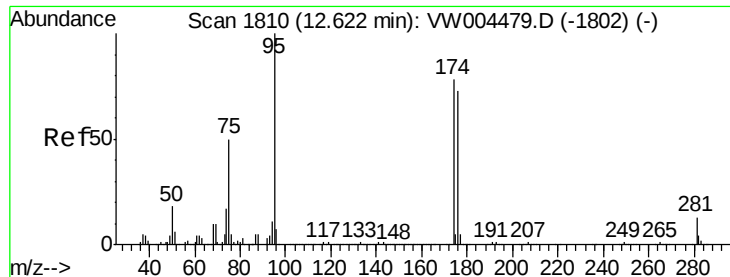
Tgt Ion: 63 Resp: 19

Ion Ratio Lower Upper

63 100

106 0.0 21.3 31.9#

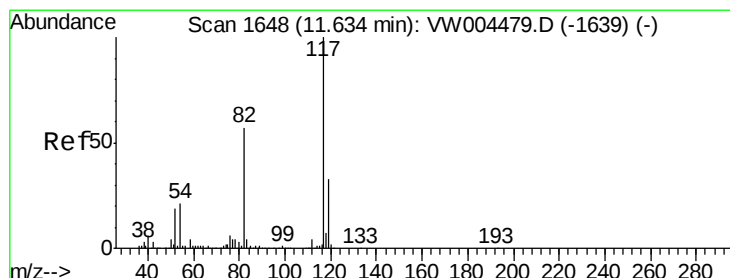
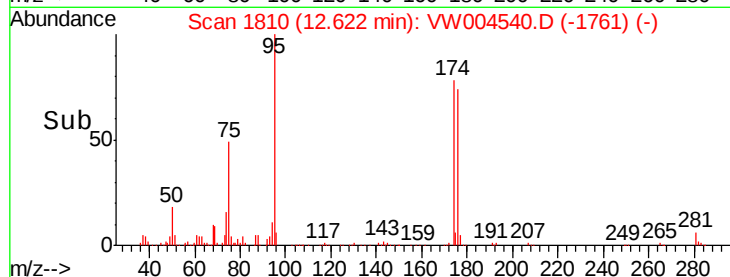
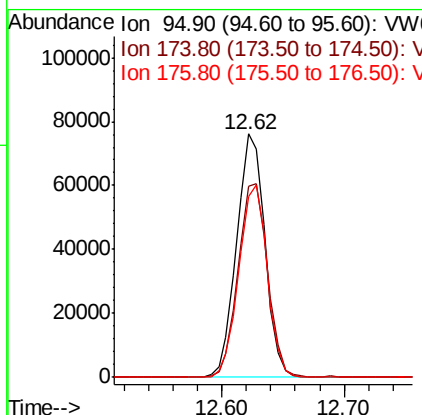
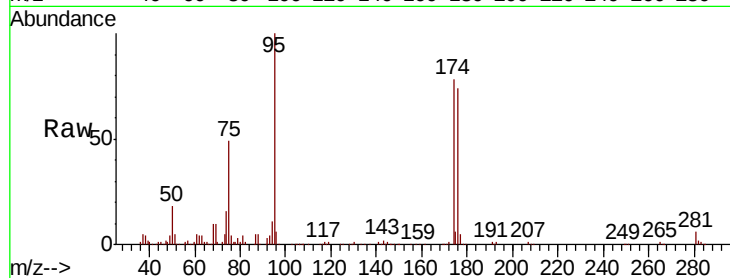




#62  
4-Bromofluorobenzene  
Concen: 20.609 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VW004540.D  
Acq: 08 Aug 2018 21:09

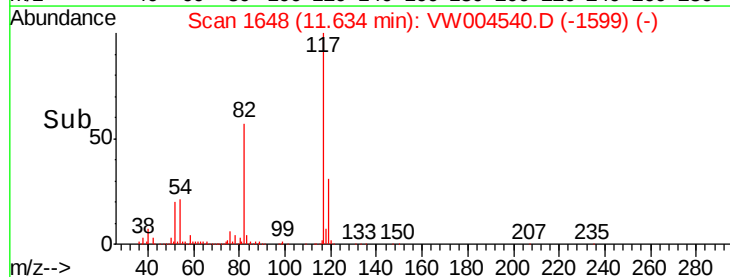
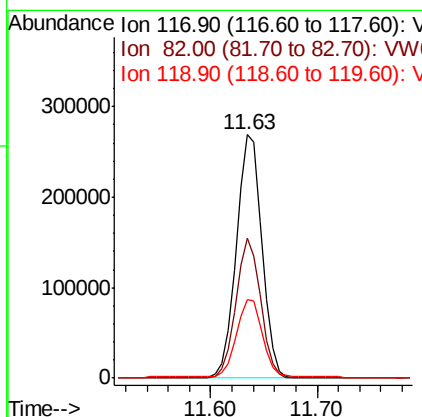
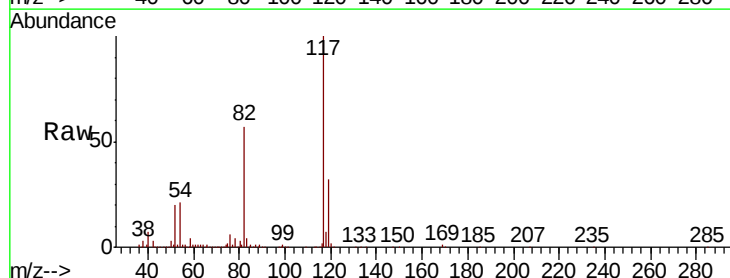
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-4RE

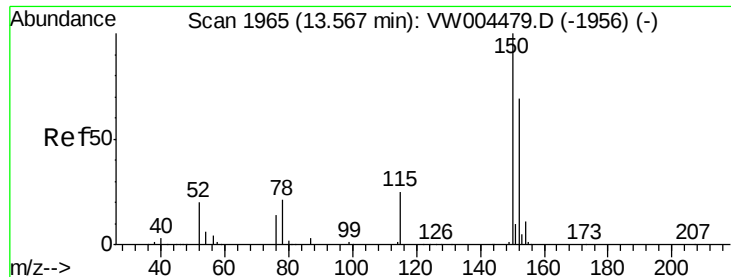
Tgt Ion: 95 Resp: 121660  
Ion Ratio Lower Upper  
95 100  
174 82.9 0.0 160.4  
176 79.7 0.0 153.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004540.D  
Acq: 08 Aug 2018 21:09

Tgt Ion: 117 Resp: 453543  
Ion Ratio Lower Upper  
117 100  
82 57.4 45.3 67.9  
119 31.6 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: VW004540.D

Acq: 08 Aug 2018 21:09

Instrument :

MSVOA\_W

ClientSampleId :

C-4RE

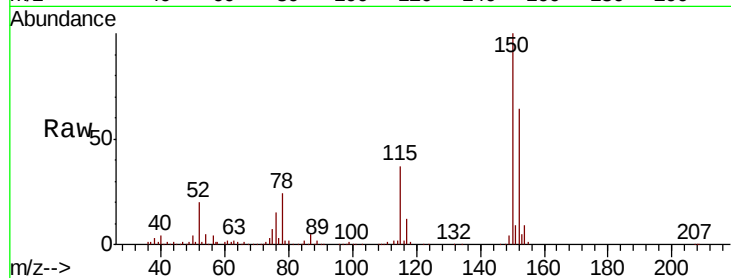
Tgt Ion:152 Resp: 95762

Ion Ratio Lower Upper

152 100

115 58.1 29.1 87.3

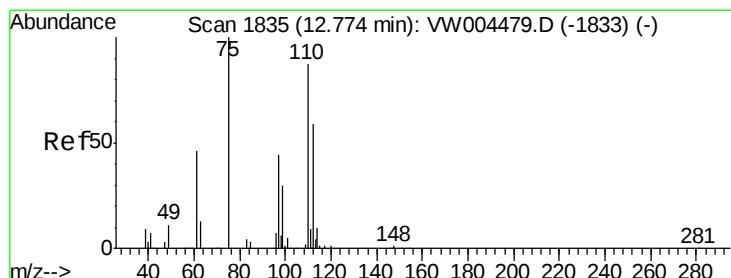
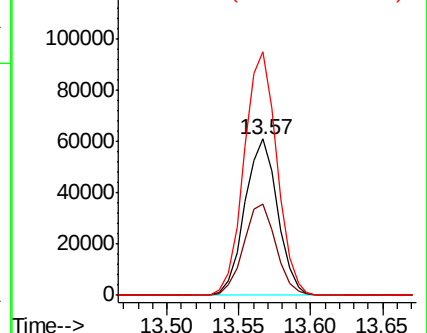
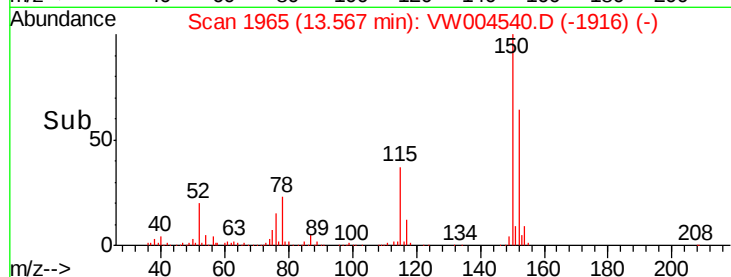
150 156.1 0.0 349.6



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: 60.426 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004540.D

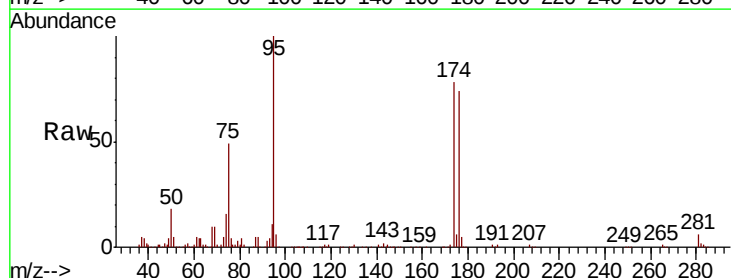
Acq: 08 Aug 2018 21:09

Tgt Ion: 75 Resp: 59878

Ion Ratio Lower Upper

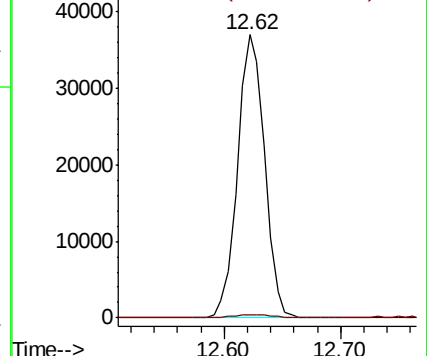
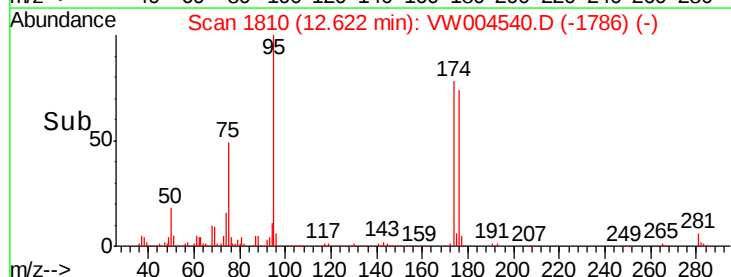
75 100

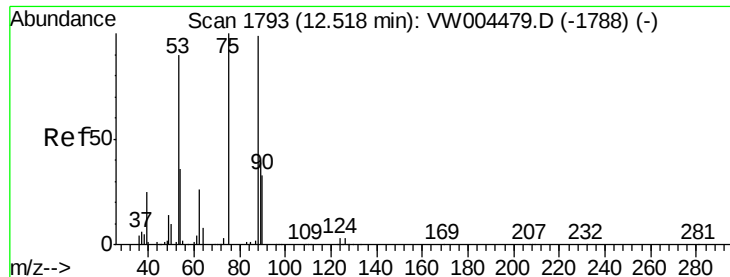
77 1.7 0.0 0.0#



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: 144.653 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

Instrument :

MSVOA\_W

ClientSampleId :

C-4RE

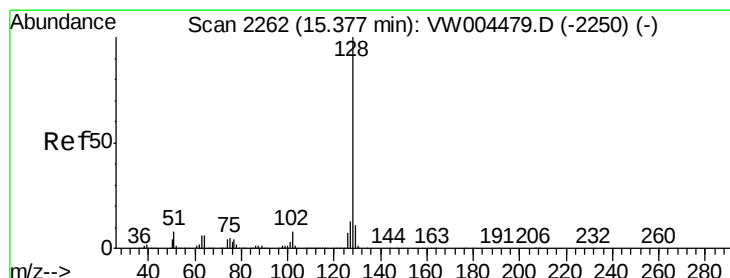
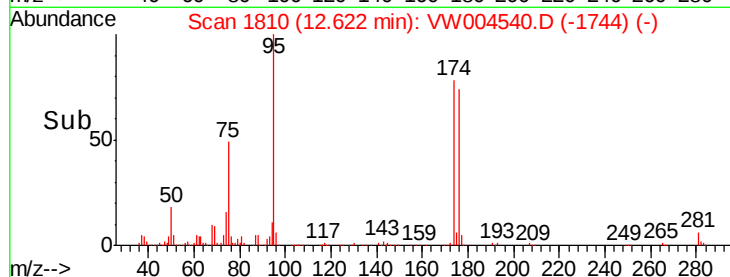
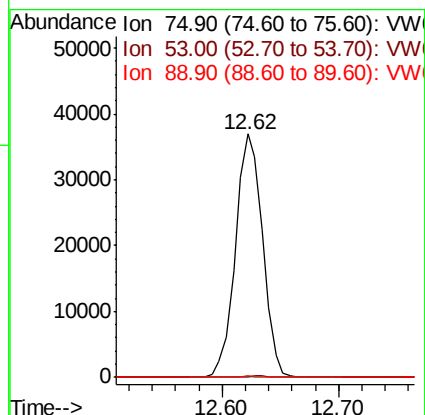
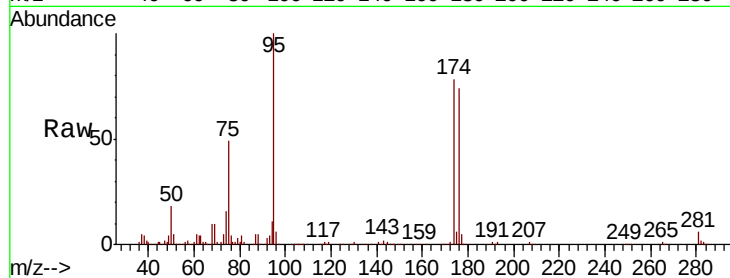
Tgt Ion: 75 Resp: 59878

Ion Ratio Lower Upper

75 100

53 0.4 74.4 111.6#

89 0.2 35.9 53.9#



#95

Naphthalene

Concen: 3.184 ug/l

RT: 15.37 min Scan# 2261

Delta R.T. -0.01 min

Lab File: VW004540.D

Acq: 08 Aug 2018 21:09

Tgt Ion: 128 Resp: 1224

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 6.1 8.6 13.0#

