

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW051518\  
 Data File : VW002536.D  
 Acq On : 15 May 2018 02:41  
 Operator : JC/SY  
 Sample : J2708-02  
 Misc : 6.30G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-21(5.5-6)

Quant Time: May 15 07:32:25 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 155931   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 243922   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 226329   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 116450   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 78512    | 48.73 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.46% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 74879    | 48.39 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.78% |      |
| 50) Toluene-d8              | 10.33  | 98  | 244247   | 41.49 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.98% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 93453    | 43.41 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.82% |      |

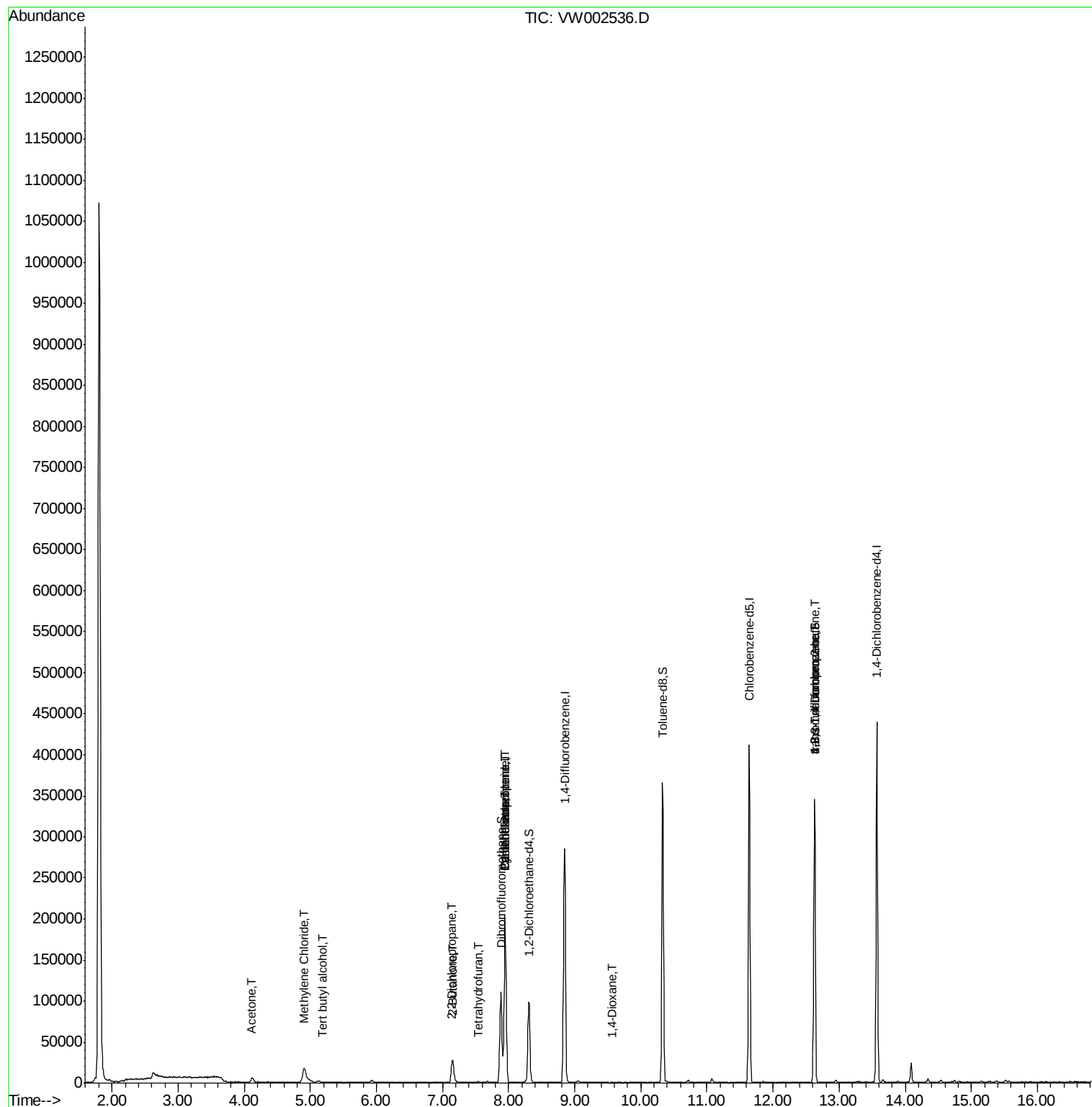
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 397      | 3.21   | ug/l # | 71     |
| 16) Acetone                    | 4.12  | 43   | 9632     | 28.31  | ug/l   | 100    |
| 20) Methylene Chloride         | 4.91  | 84   | 16117    | 9.69   | ug/l   | 94     |
| 25) 2-Butanone                 | 7.15  | 43   | 1655     | 3.44   | ug/l   | 97     |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 1736     | 1.20   | ug/l # | 54     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 397      | 1.32   | ug/l # | 80     |
| 31) Cyclohexane                | 7.95  | 56   | 3579     | 1.56   | ug/l # | 22     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 11765    | 5.47   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 15295    | 7.26   | ug/l # | 19     |
| 49) 1,4-Dioxane                | 9.56  | 88   | 22       | 1.47   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 48233    | 43.82  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 48233    | 119.47 | ug/l # | 8      |

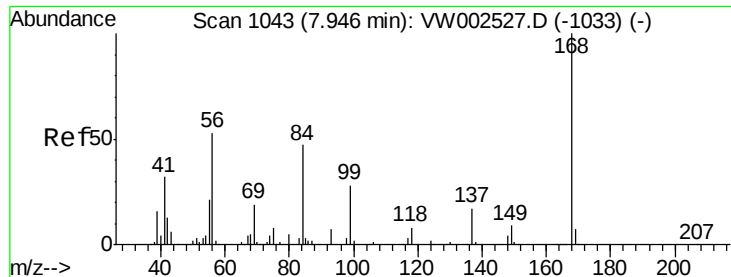
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW051518\  
Data File : VW002536.D  
Acq On : 15 May 2018 02:41  
Operator : JC/SY  
Sample : J2708-02  
Misc : 6.30G/5ML/MSVOA\_W/SOIL  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-21(5.5-6)

Quant Time: May 15 07:32:25 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 15 03:32:11 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Instrument :

MSVOA\_W

ClientSampled :

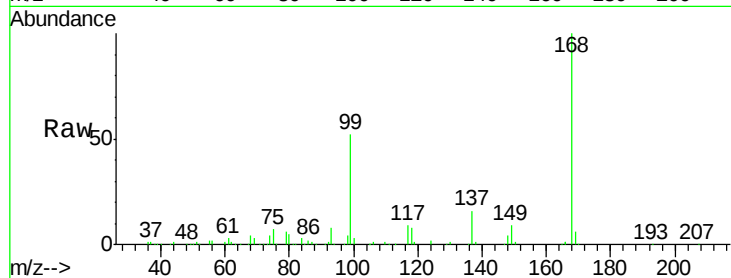
SB-21(5.5-6)

Tgt Ion:168 Resp: 155931

Ion Ratio Lower Upper

168 100

99 51.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

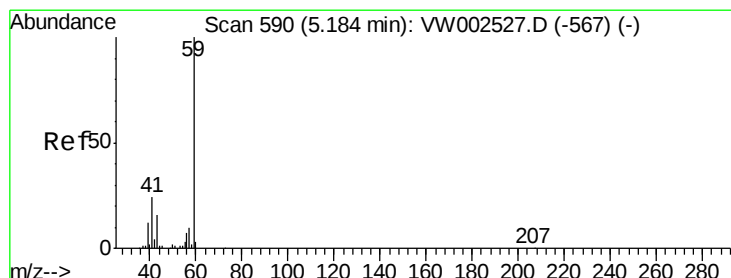
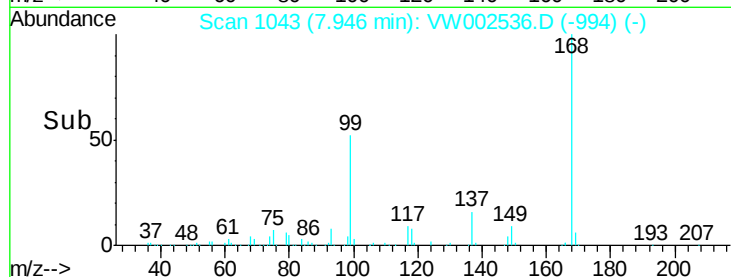
40000

20000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 3.21 ug/l

RT: 5.19 min Scan# 591

Delta R.T. 0.01 min

Lab File: VW002536.D

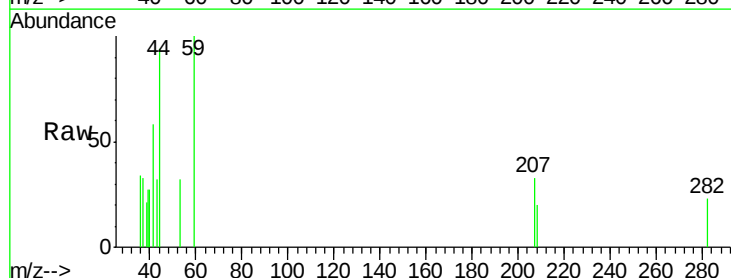
Acq: 15 May 2018 02:41

Tgt Ion: 59 Resp: 397

Ion Ratio Lower Upper

59 100

57 21.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.19

300

250

200

150

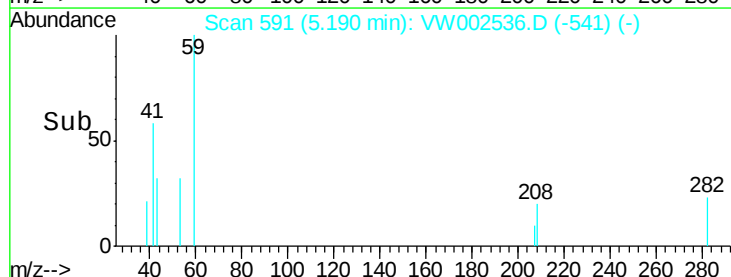
100

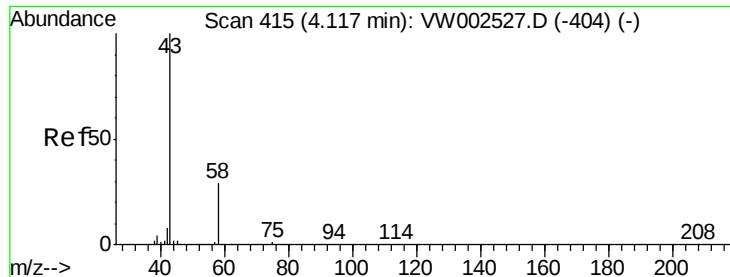
50

0

5.16 5.18 5.20 5.22 5.24

Time-->





#16

Acetone

Concen: 28.31 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.01 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Instrument :

MSVOA\_W

ClientSampleId :

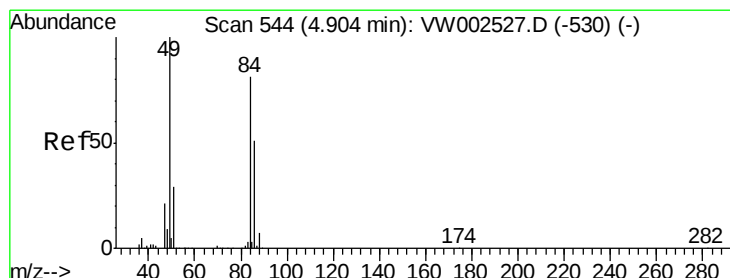
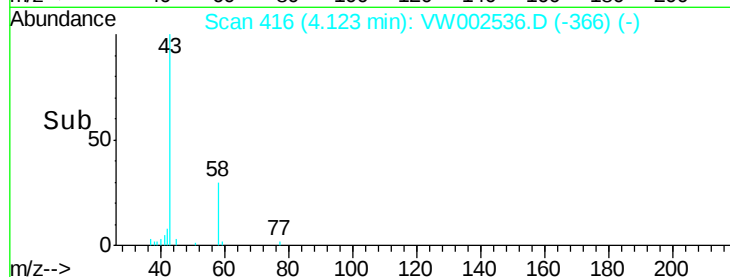
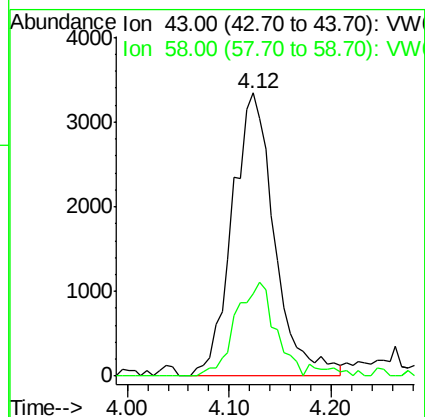
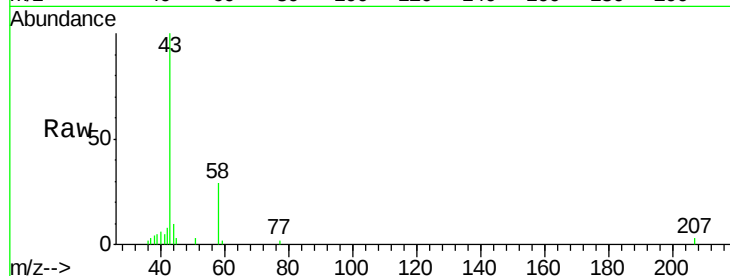
SB-21(5.5-6)

Tgt Ion: 43 Resp: 9632

Ion Ratio Lower Upper

43 100

58 29.3 23.4 35.0



#20

Methylene Chloride

Concen: 9.69 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.01 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Tgt Ion: 84 Resp: 16117

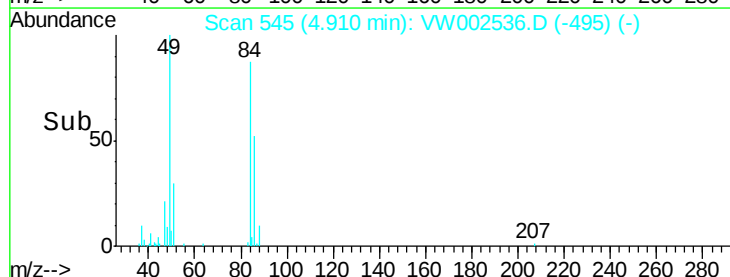
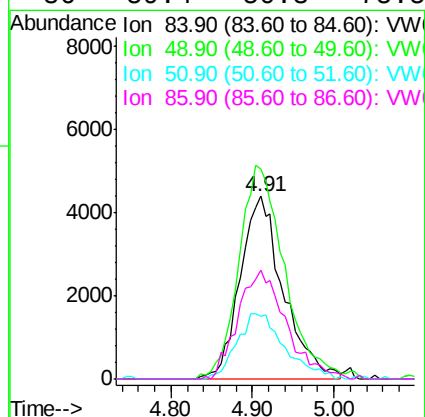
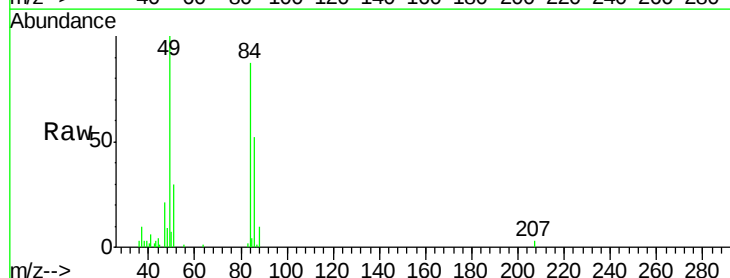
Ion Ratio Lower Upper

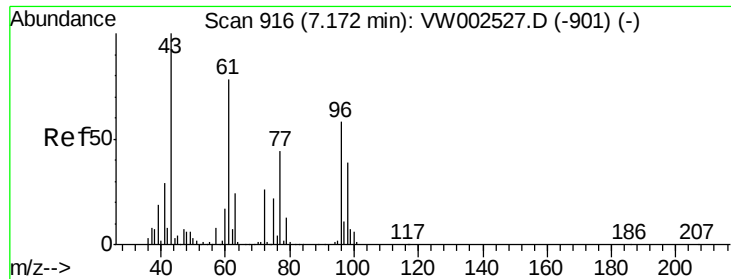
84 100

49 115.3 99.4 149.0

51 34.7 29.0 43.6

86 59.4 50.3 75.5





#25

2-Butanone

Concen: 3.44 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.02 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Instrument :

MSVOA\_W

ClientSampleId :

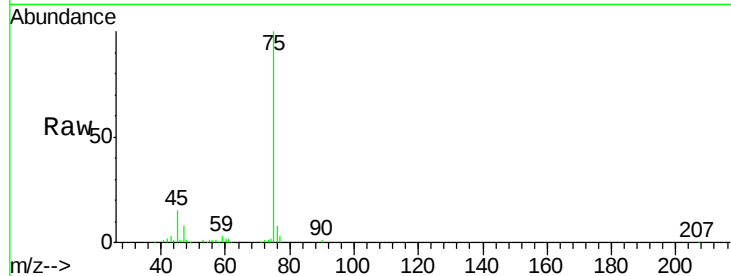
SB-21(5.5-6)

Tgt Ion: 43 Resp: 1655

Ion Ratio Lower Upper

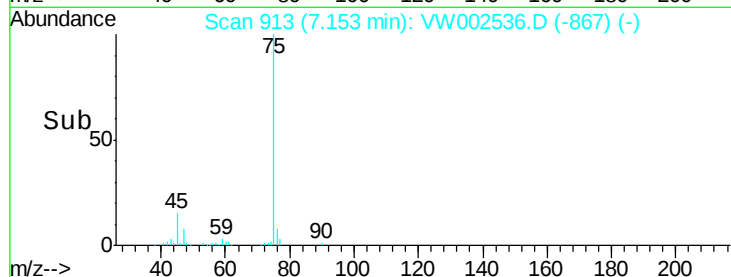
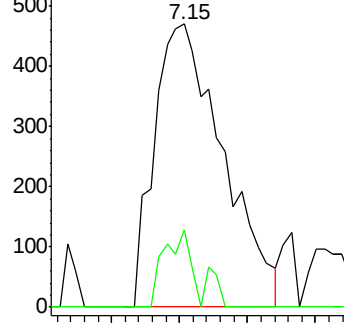
43 100

72 27.4 20.9 31.3

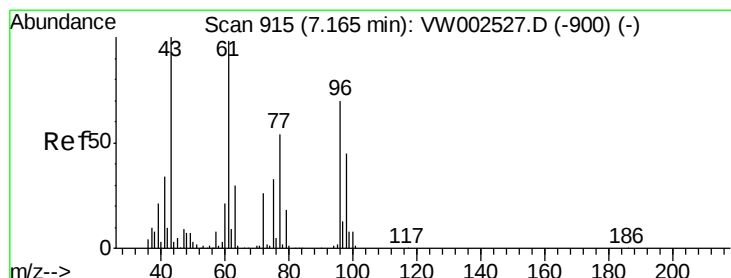


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



Time-->



#26

2,2-Dichloropropane

Concen: 1.20 ug/l

RT: 7.13 min Scan# 910

Delta R.T. -0.03 min

Lab File: VW002536.D

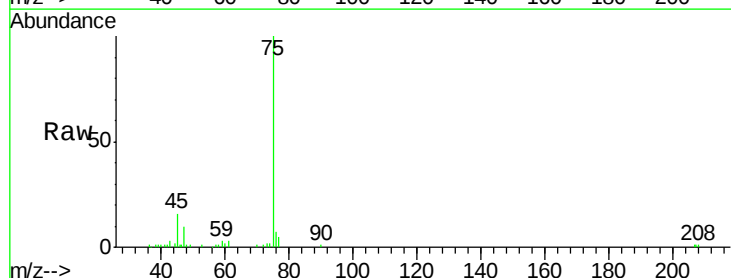
Acq: 15 May 2018 02:41

Tgt Ion: 77 Resp: 1736

Ion Ratio Lower Upper

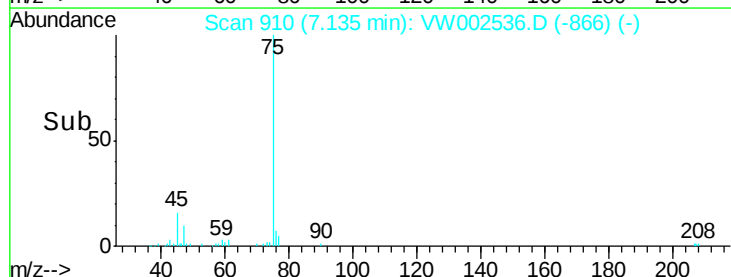
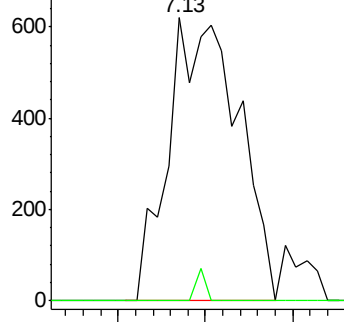
77 100

97 1.5 12.1 36.3#

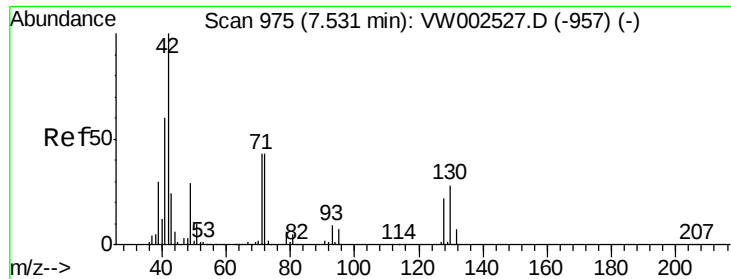


Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



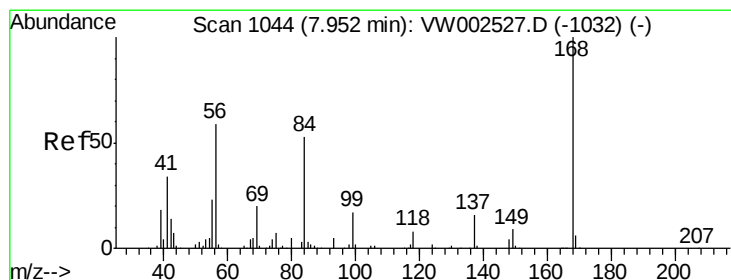
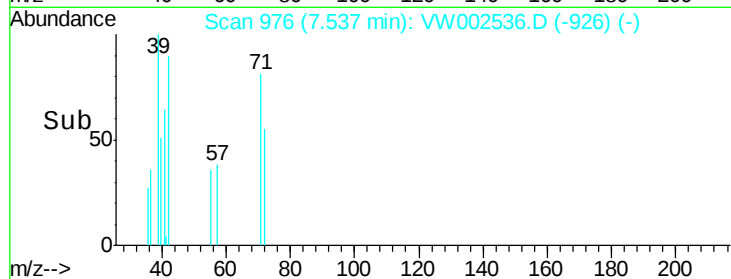
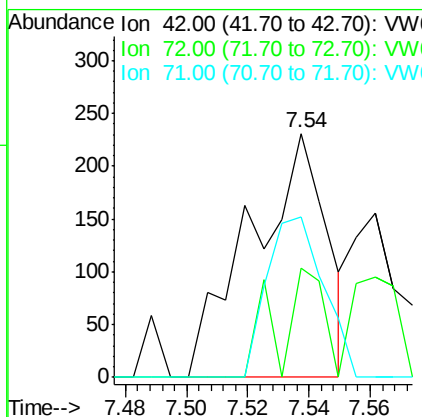
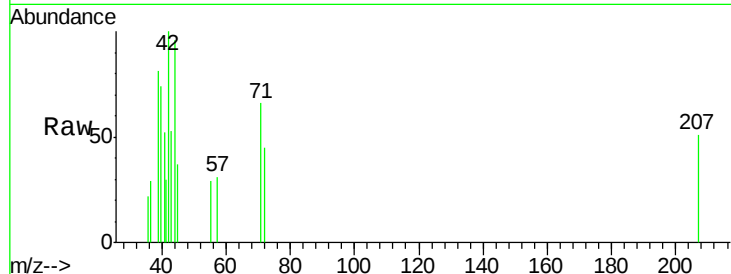
Time-->



#29  
Tetrahydrofuran  
Concen: 1.32 ug/l  
RT: 7.54 min Scan# 976  
Delta R.T. 0.01 min  
Lab File: VW002536.D  
Acq: 15 May 2018 02:41

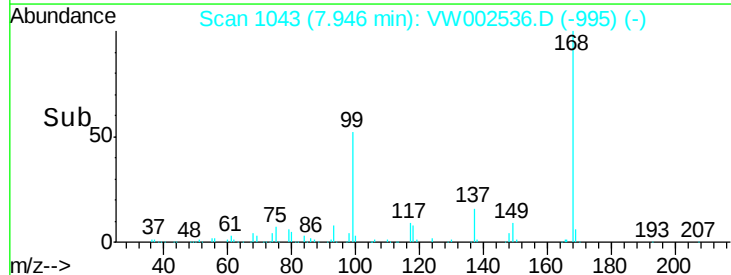
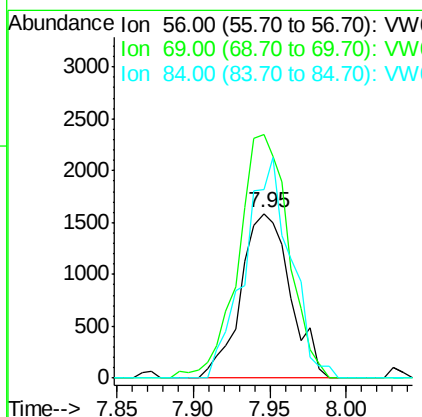
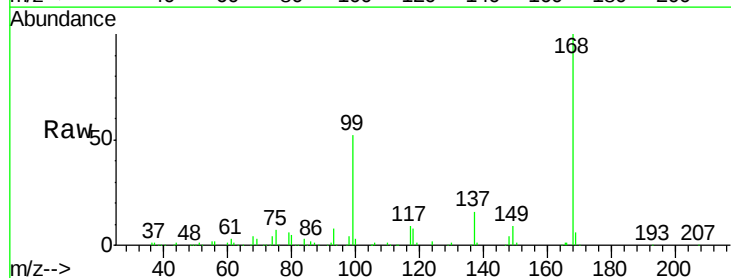
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-21(5.5-6)

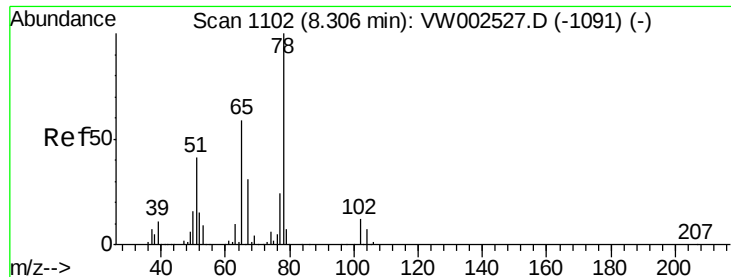
Tgt Ion: 42 Resp: 397  
Ion Ratio Lower Upper  
42 100  
72 26.4 35.0 52.4#  
71 49.4 33.0 49.6



#31  
Cyclohexane  
Concen: 1.56 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW002536.D  
Acq: 15 May 2018 02:41

Tgt Ion: 56 Resp: 3579  
Ion Ratio Lower Upper  
56 100  
69 148.2 27.0 40.4#  
84 120.0 72.2 108.2#





#33

1,2-Dichloroethane-d4

Concen: 48.73 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Instrument :

MSVOA\_W

ClientSampleId :

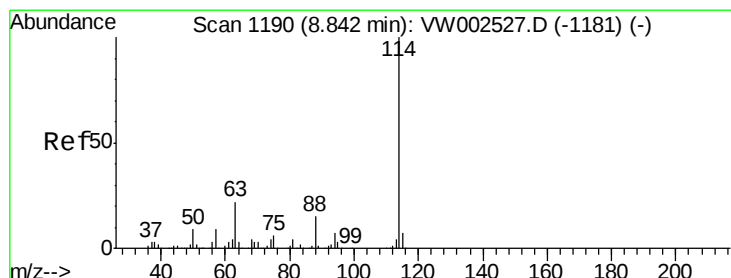
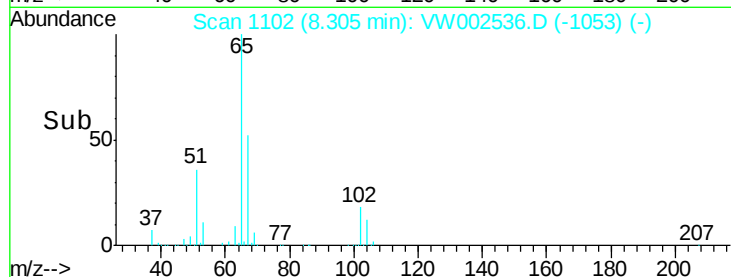
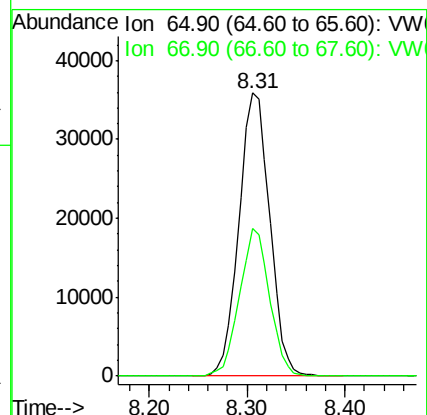
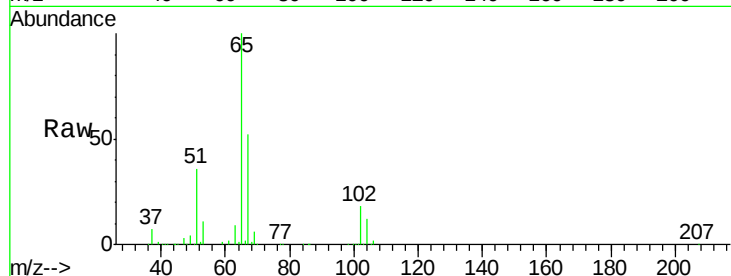
SB-21(5.5-6)

Tgt Ion: 65 Resp: 78512

Ion Ratio Lower Upper

65 100

67 51.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

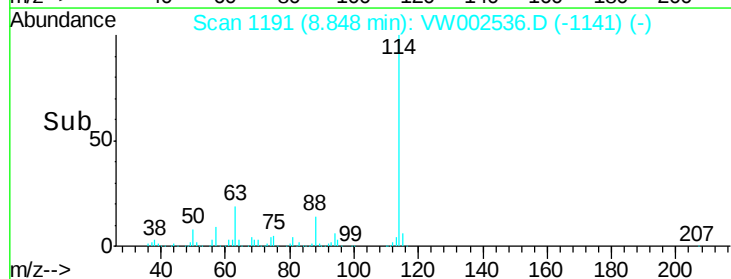
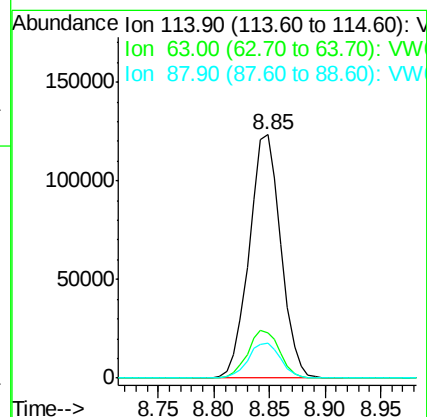
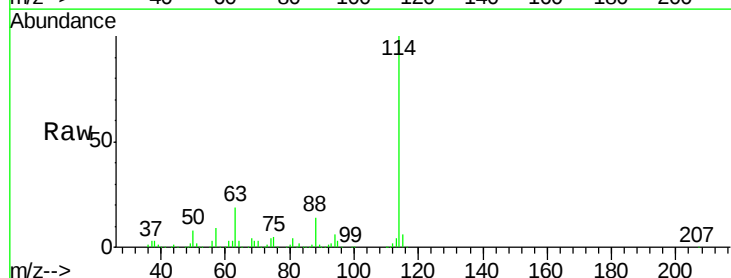
Tgt Ion: 114 Resp: 243922

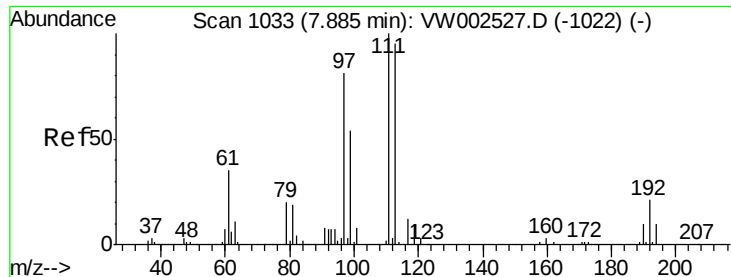
Ion Ratio Lower Upper

114 100

63 18.6 0.0 43.2

88 14.3 0.0 29.2

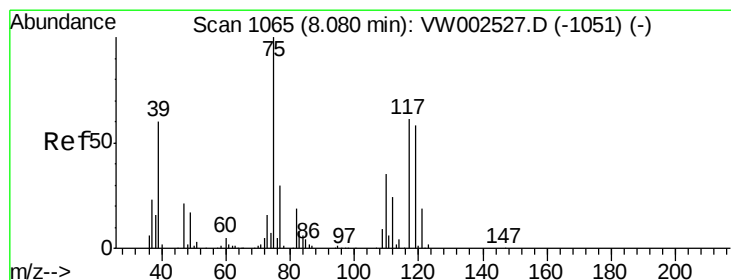
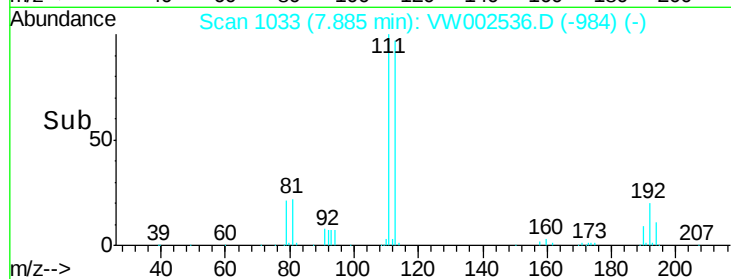
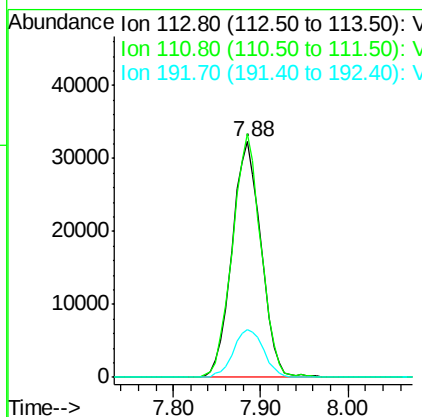
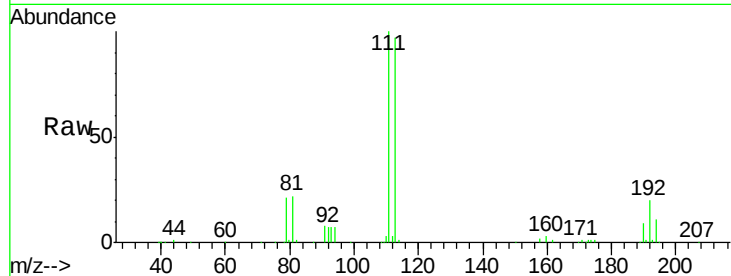




#35  
 Dibromofluoromethane  
 Concen: 48.39 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW002536.D  
 Acq: 15 May 2018 02:41

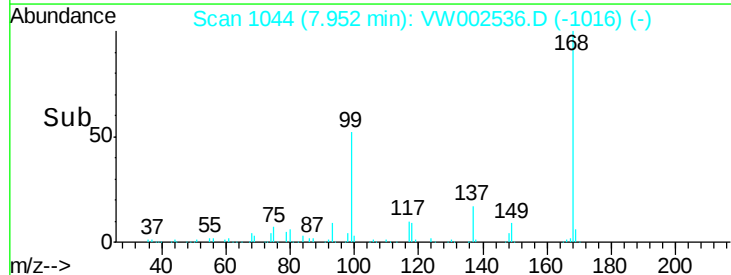
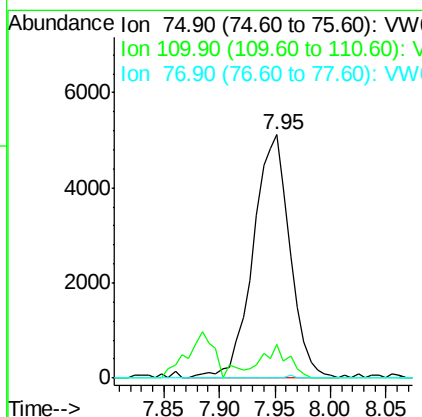
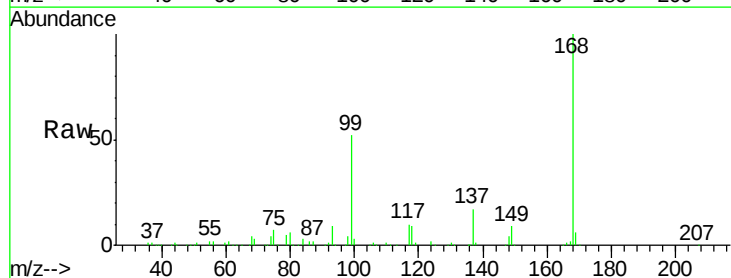
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-21(5.5-6)

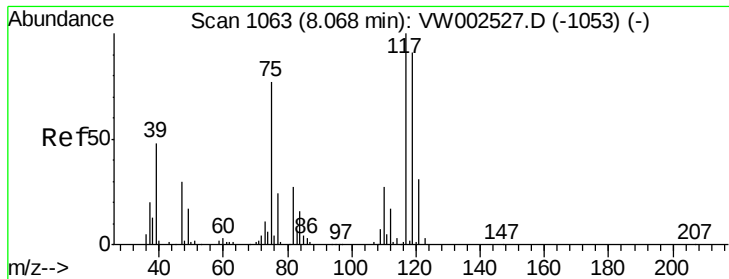
Tgt Ion:113 Resp: 74879  
 Ion Ratio Lower Upper  
 113 100  
 111 101.2 81.8 122.8  
 192 21.1 17.5 26.3



#36  
 1,1-Dichloropropene  
 Concen: 5.47 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW002536.D  
 Acq: 15 May 2018 02:41

Tgt Ion: 75 Resp: 11765  
 Ion Ratio Lower Upper  
 75 100  
 110 10.0 17.8 53.5#  
 77 0.2 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 7.26 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Instrument :

MSVOA\_W

ClientSampled :

SB-21(5.5-6)

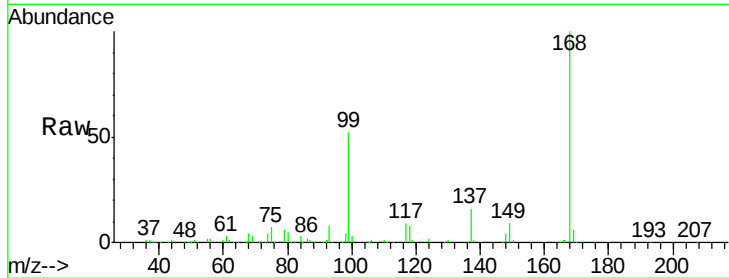
Tgt Ion:117 Resp: 15295

Ion Ratio Lower Upper

117 100

119 6.4 73.1 109.7#

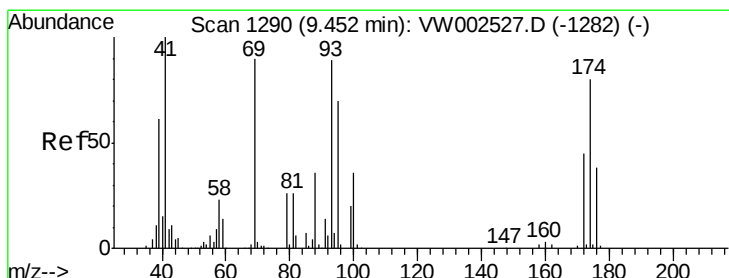
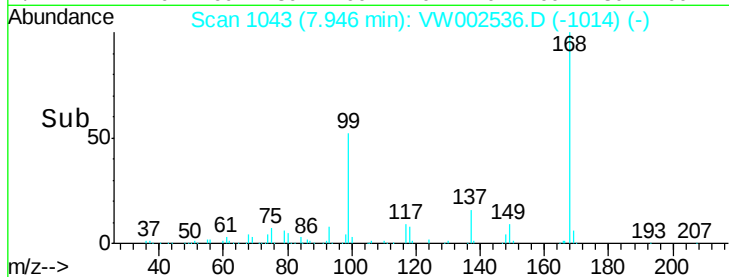
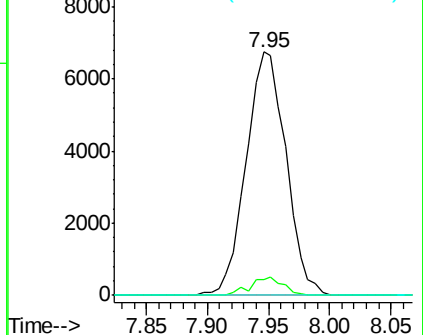
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 1.47 ug/l

RT: 9.56 min Scan# 1308

Delta R.T. 0.11 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

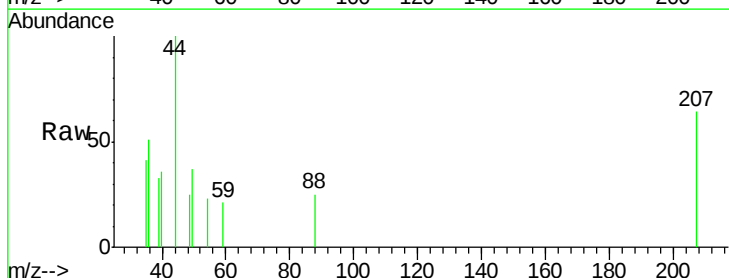
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 200.0 27.0 40.4#

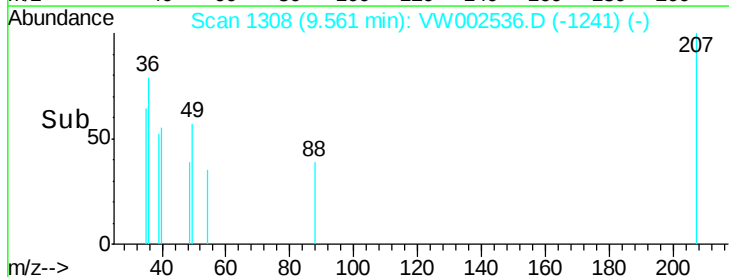
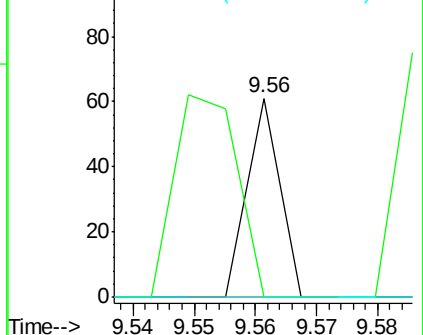
58 0.0 56.9 85.3#

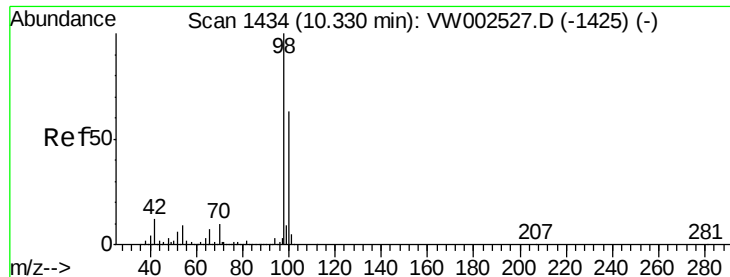


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 41.49 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Instrument :

MSVOA\_W

ClientSampleId :

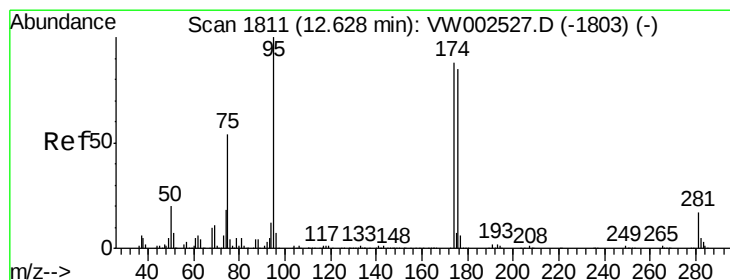
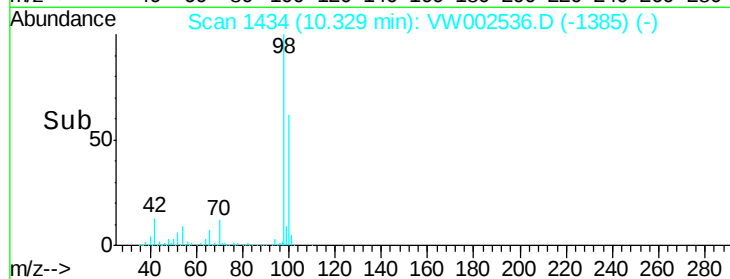
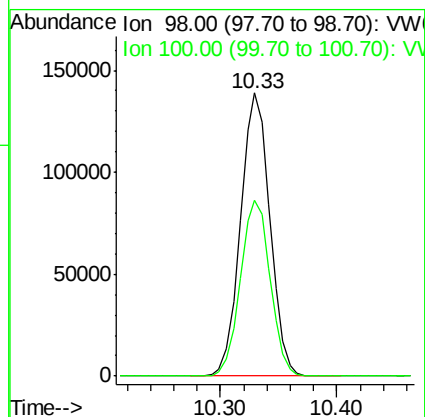
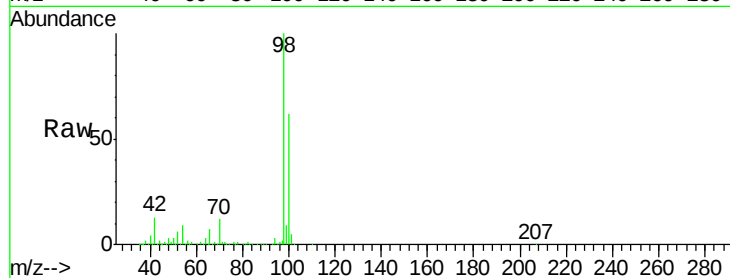
SB-21(5.5-6)

Tgt Ion: 98 Resp: 244247

Ion Ratio Lower Upper

98 100

100 62.9 51.0 76.4



#62

4-Bromofluorobenzene

Concen: 43.41 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

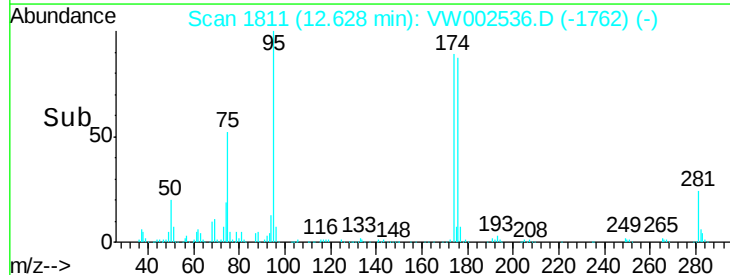
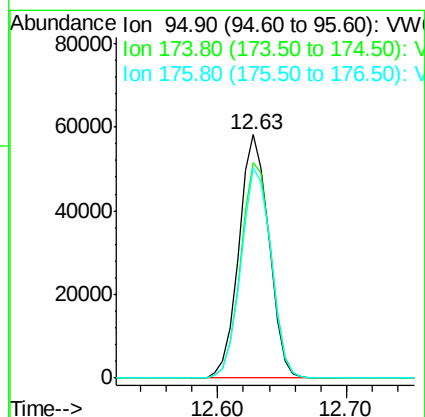
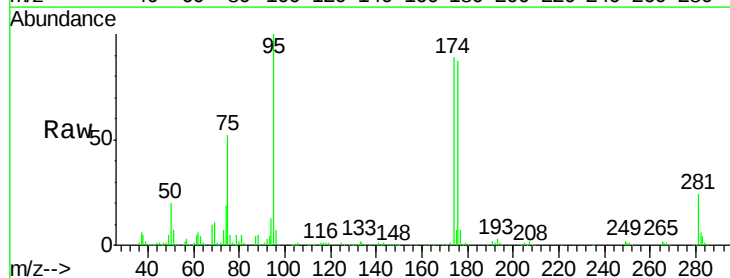
Tgt Ion: 95 Resp: 93453

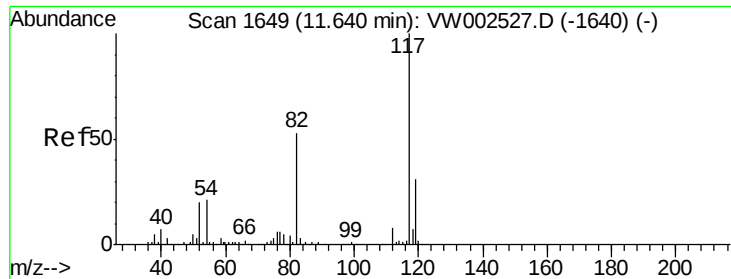
Ion Ratio Lower Upper

95 100

174 89.6 0.0 176.6

176 86.9 0.0 172.2

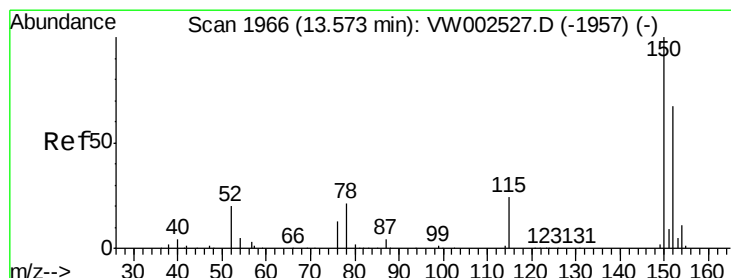
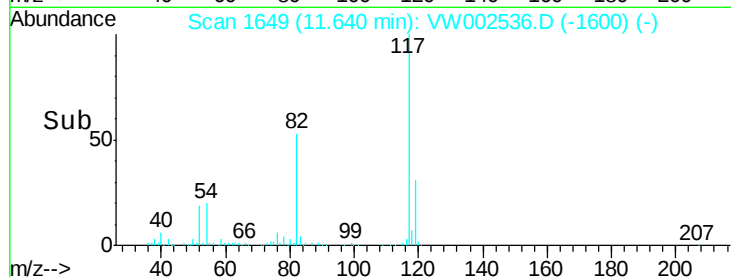
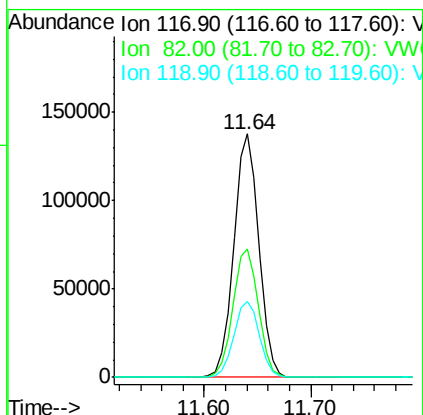
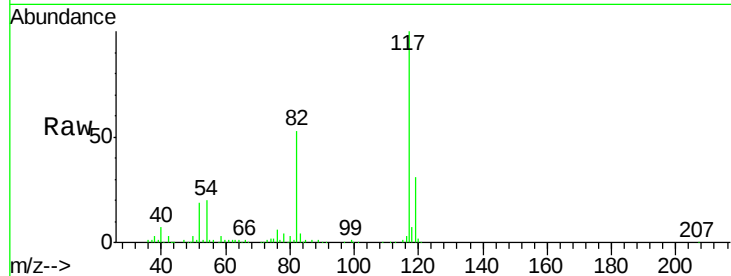




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VW002536.D  
Acq: 15 May 2018 02:41

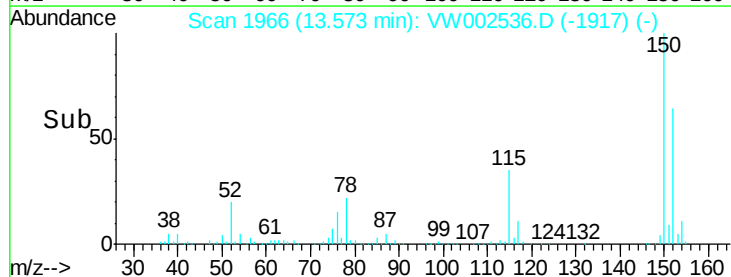
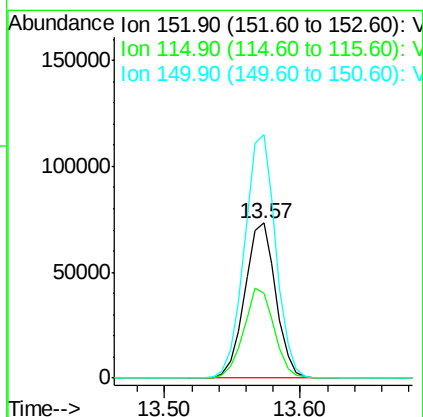
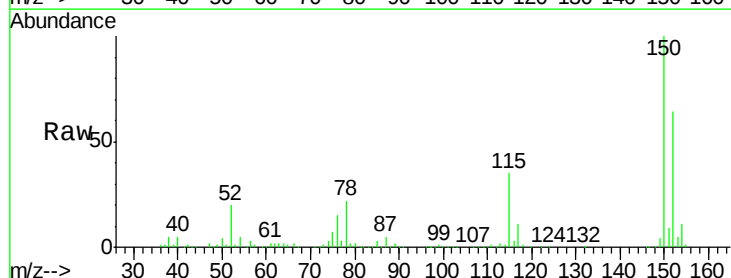
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-21(5.5-6)

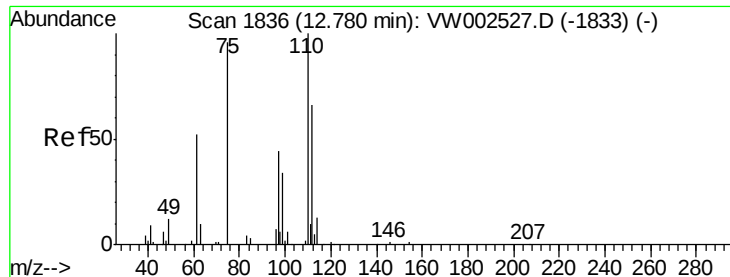
Tgt Ion:117 Resp: 226329  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.6 64.0  
119 31.2 25.0 37.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1966  
Delta R.T. -0.00 min  
Lab File: VW002536.D  
Acq: 15 May 2018 02:41

Tgt Ion:152 Resp: 116450  
Ion Ratio Lower Upper  
152 100  
115 56.7 28.0 84.0  
150 158.2 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 43.82 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Instrument :

MSVOA\_W

ClientSampled :

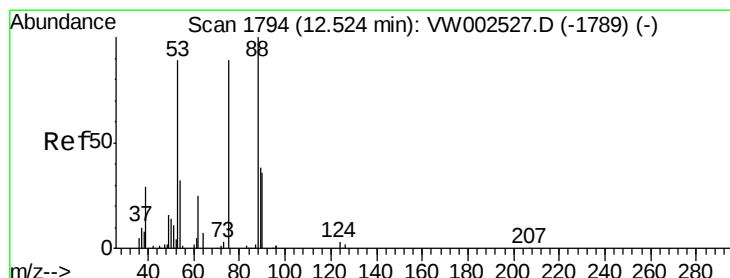
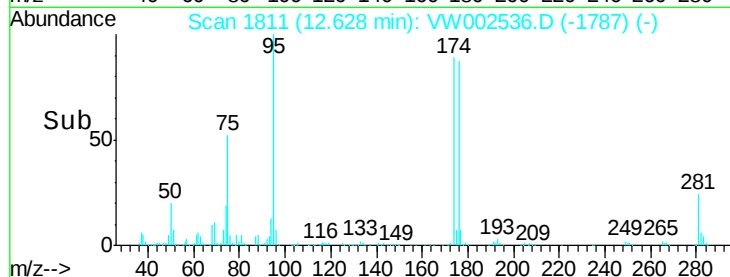
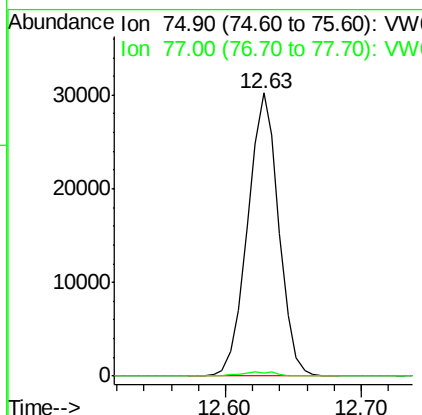
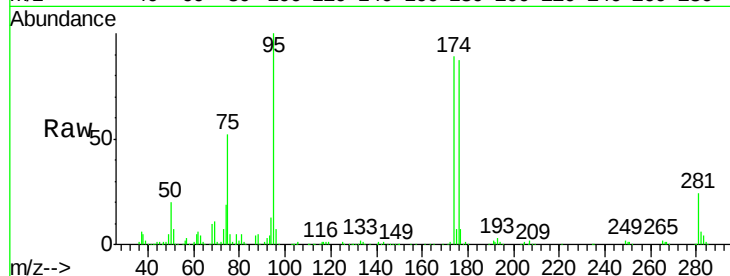
SB-21(5.5-6)

Tgt Ion: 75 Resp: 48233

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.47 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW002536.D

Acq: 15 May 2018 02:41

Tgt Ion: 75 Resp: 48233

Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.4 39.2 58.8#

