

Data File : VW005095.D  
Acq On : 04 Sep 2018 21:55  
Operator : SY/AP  
Sample : J4712-03  
Misc : 6.19G/5ML/MSVOA\_W/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-15

Quant Time: Sep 05 04:15:58 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 317777   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 477895   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 491804   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 244934   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 125452   | 47.62 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.24% |      |
| 35) Dibromofluoromethane    | 7.89   | 113 | 116863   | 42.32 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.64% |      |
| 50) Toluene-d8              | 10.33  | 98  | 464890   | 36.53 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 73.06% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 158693   | 35.37 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 70.74% |      |

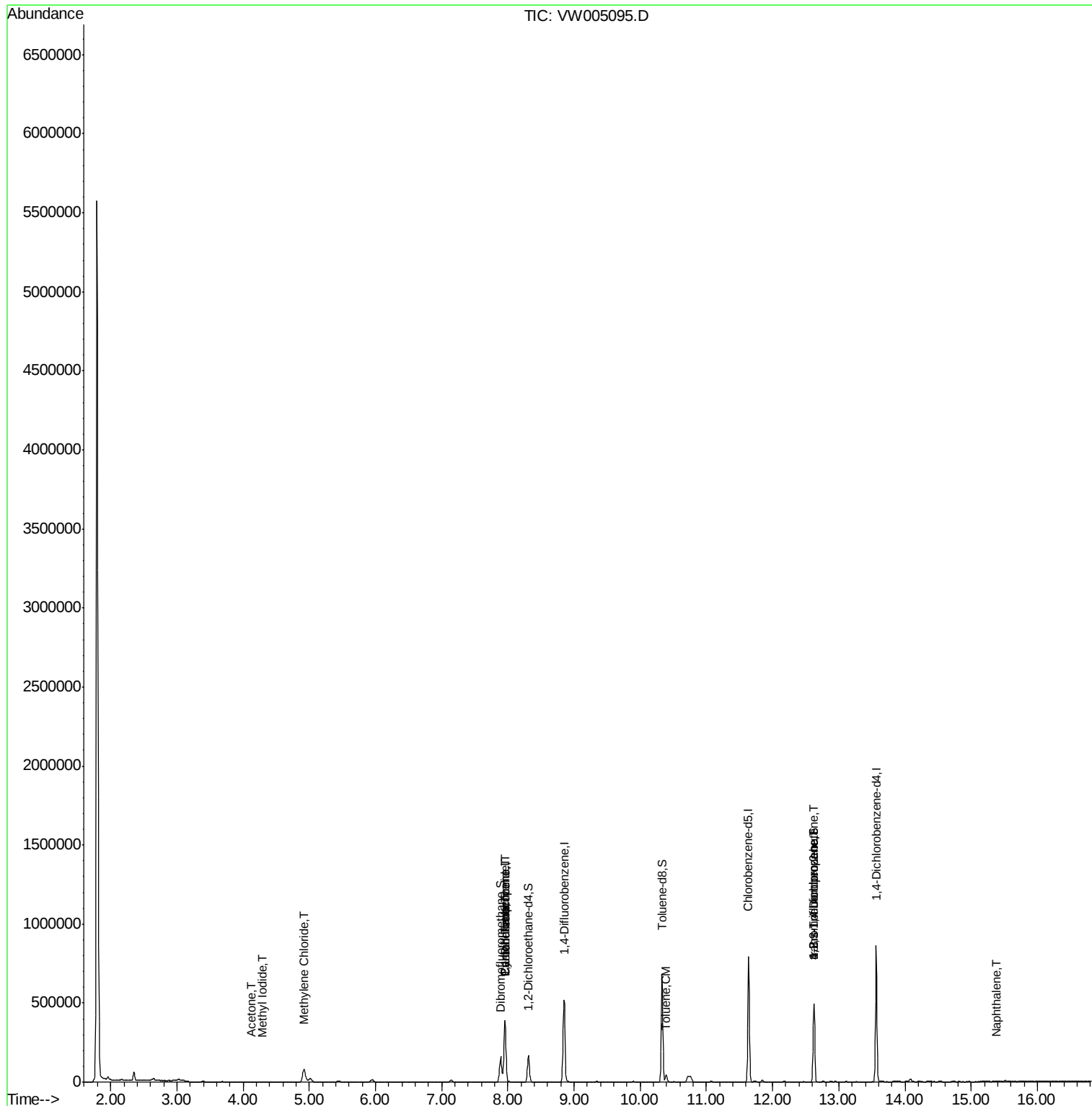
|                                |       |     |        |           |        |     |
|--------------------------------|-------|-----|--------|-----------|--------|-----|
| Target Compounds               |       |     | Qvalue |           |        |     |
| 5) Bromomethane                | 2.76  | 94  | 376    | Below Cal | #      | 69  |
| 10) Methyl Iodide              | 4.29  | 142 | 110    | 3.843     | ug/l # | 44  |
| 11) Tert butyl alcohol         | 5.16  | 59  | 633    | Below Cal | #      | 72  |
| 16) Acetone                    | 4.14  | 43  | 1999   | 3.784     | ug/l # | 79  |
| 20) Methylene Chloride         | 4.92  | 84  | 64173  | 15.278    | ug/l   | 99  |
| 31) Cyclohexane                | 7.95  | 56  | 5957   | 1.151     | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 20359  | 4.473     | ug/l # | 47  |
| 38) Carbon Tetrachloride       | 7.96  | 117 | 27837  | 6.432     | ug/l # | 17  |
| 52) Toluene                    | 10.40 | 92  | 18216  | 1.929     | ug/l   | 96  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 71722  | 39.011    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 71722  | 93.894    | ug/l # | 15  |
| 95) Naphthalene                | 15.38 | 128 | 2667   | 4.257     | ug/l   | 100 |

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

Data File : VW005095.D  
Acq On : 04 Sep 2018 21:55  
Operator : SY/AP  
Sample : J4712-03  
Misc : 6.19G/5ML/MSVOA\_W/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-15

Quant Time: Sep 05 04:15:58 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

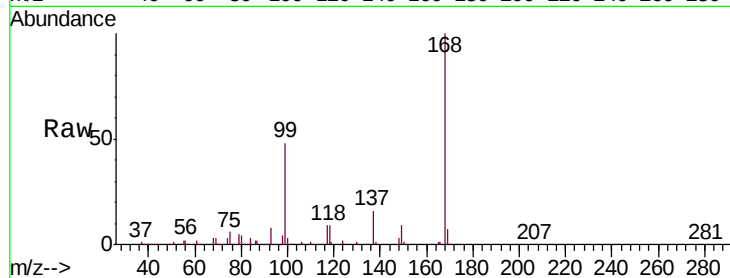
SB-15

Tgt Ion:168 Resp: 317777

Ion Ratio Lower Upper

168 100

99 47.8 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

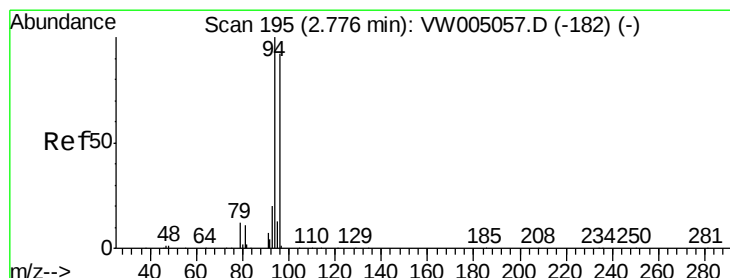
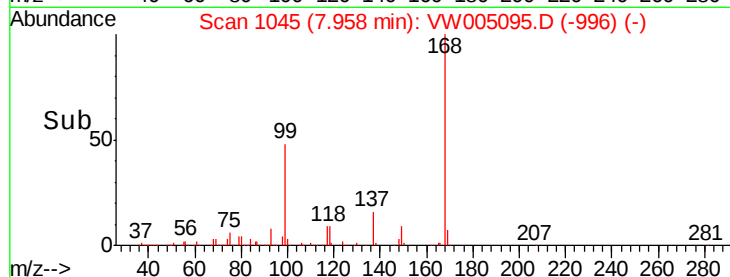
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 193

Delta R.T. -0.01 min

Lab File: VW005095.D

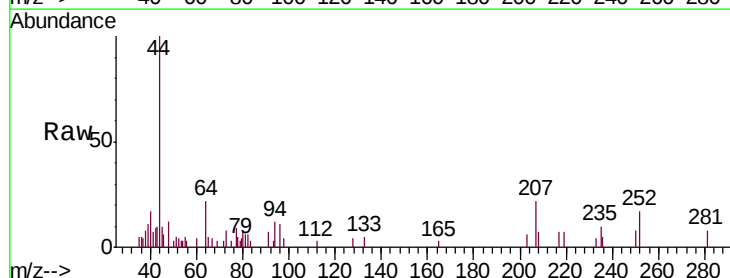
Acq: 04 Sep 2018 21:55

Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

94 100

96 121.3 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.76

400

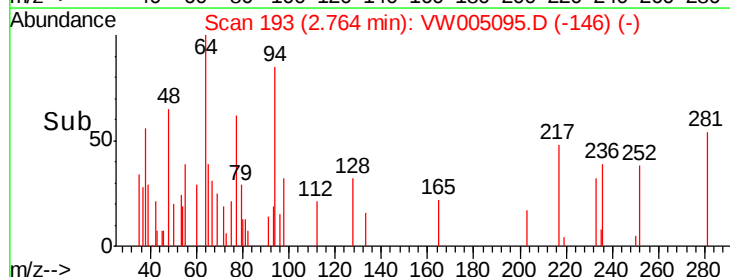
300

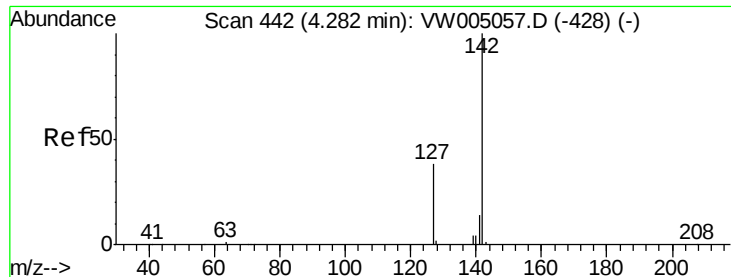
200

100

0

Time-->

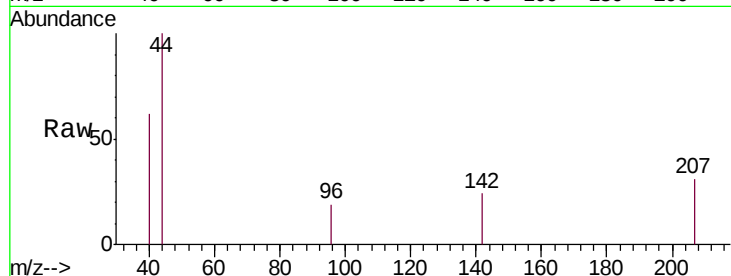




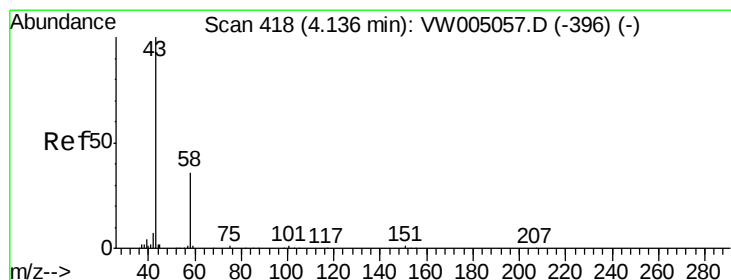
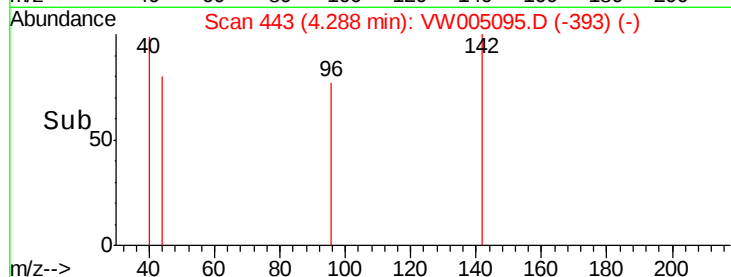
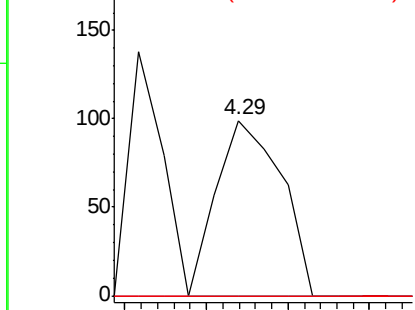
#10  
Methyl Iodide  
Concen: 3.843 ug/l  
RT: 4.29 min Scan# 443  
Delta R.T. 0.01 min  
Lab File: VW005095.D  
Acq: 04 Sep 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-15

Tgt Ion: 142 Resp: 110  
Ion Ratio Lower Upper  
142 100  
127 0.0 30.8 46.2#  
141 0.0 11.6 17.4#

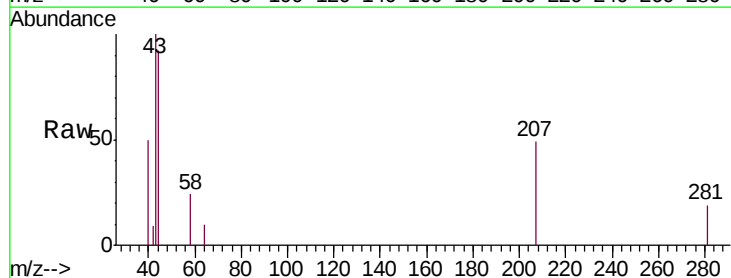


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

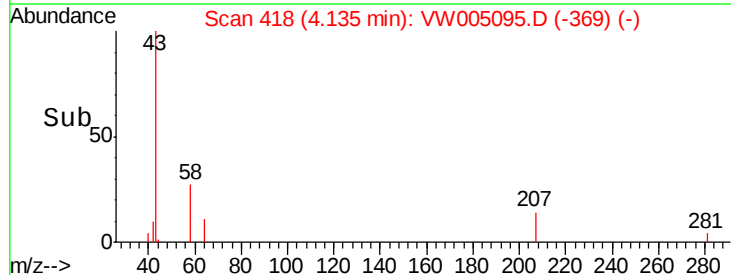
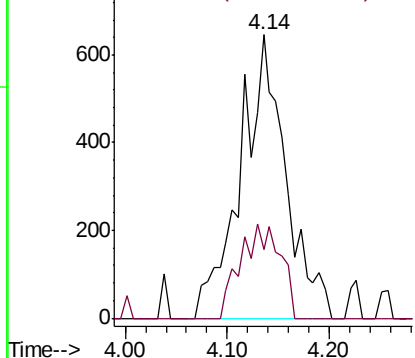


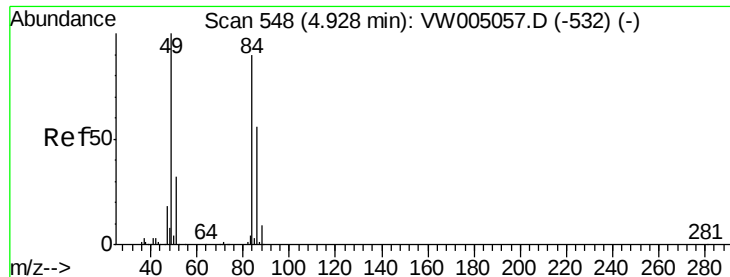
#16  
Acetone  
Concen: 3.784 ug/l  
RT: 4.14 min Scan# 418  
Delta R.T. -0.00 min  
Lab File: VW005095.D  
Acq: 04 Sep 2018 21:55

Tgt Ion: 43 Resp: 1999  
Ion Ratio Lower Upper  
43 100  
58 24.0 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: 15.278 ug/l

RT: 4.92 min Scan# 547

Delta R.T. -0.01 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

SB-15

Tgt Ion: 84 Resp: 64173

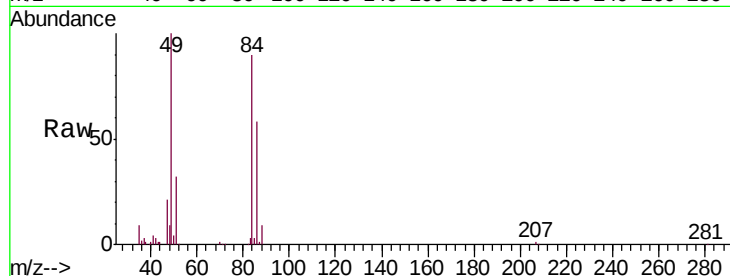
Ion Ratio Lower Upper

84 100

49 110.8 88.7 133.1

51 35.6 28.6 42.8

86 64.1 49.4 74.2

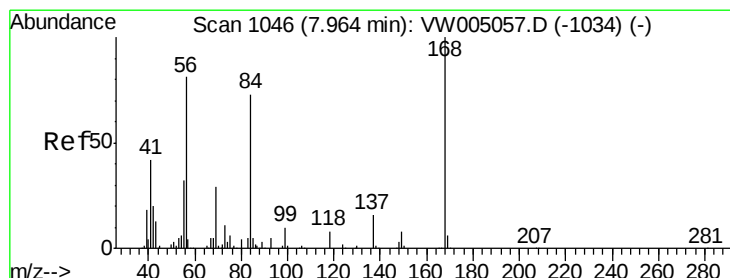
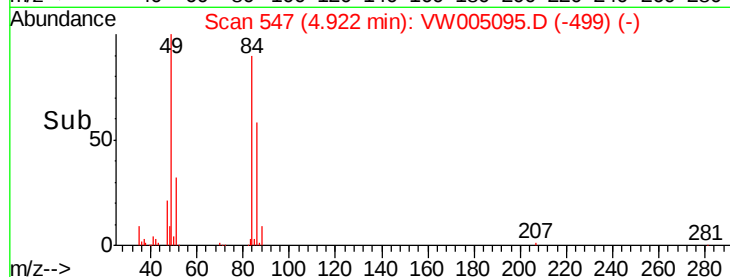
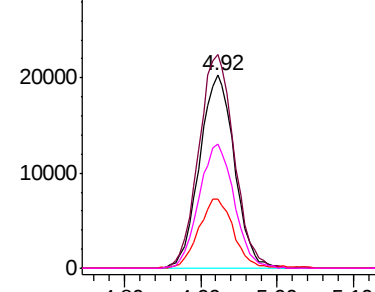


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#31

Cyclohexane

Concen: 1.151 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

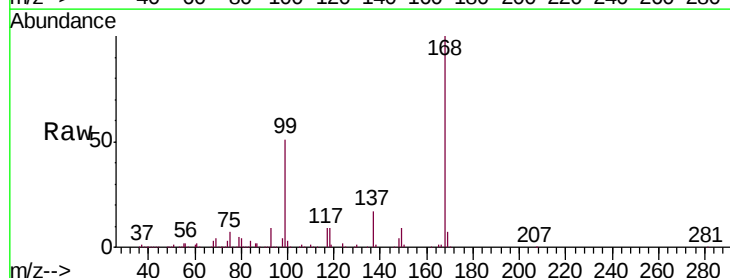
Tgt Ion: 56 Resp: 5957

Ion Ratio Lower Upper

56 100

69 201.5 28.2 42.2#

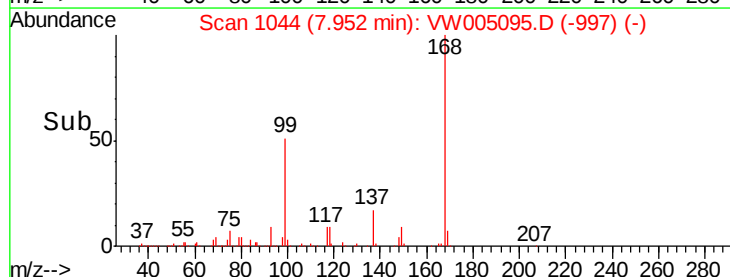
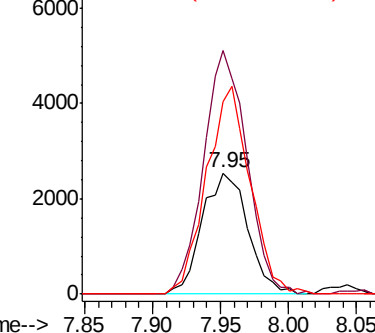
84 159.4 71.8 107.8#

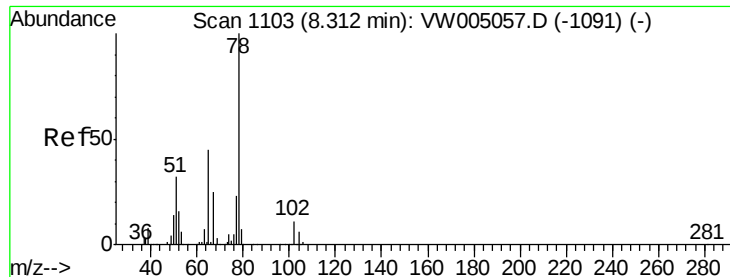


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

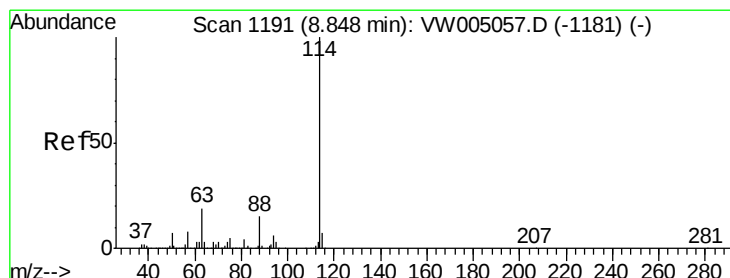
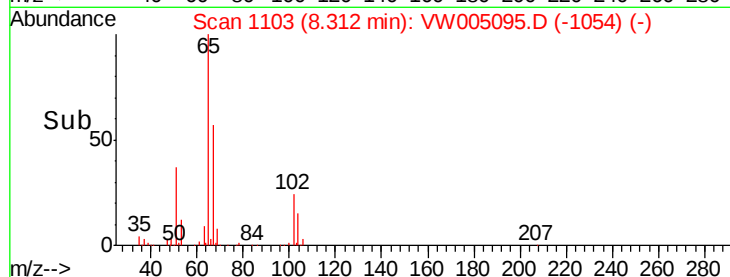
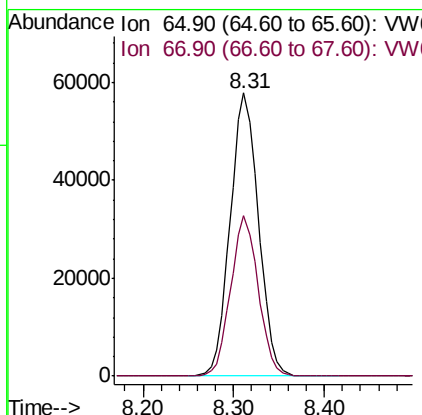
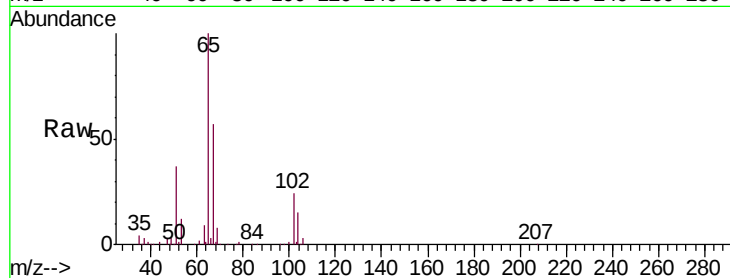




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.624 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. -0.00 min  
 Lab File: VW005095.D  
 Acq: 04 Sep 2018 21:55

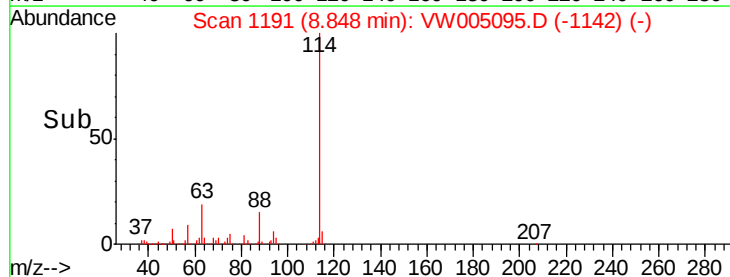
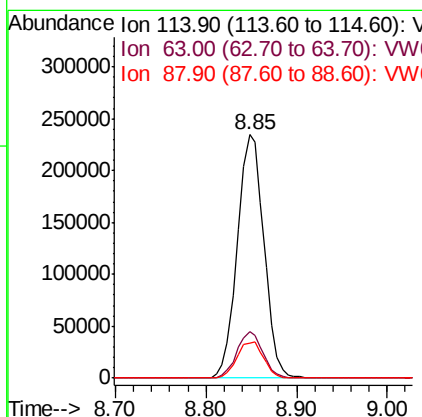
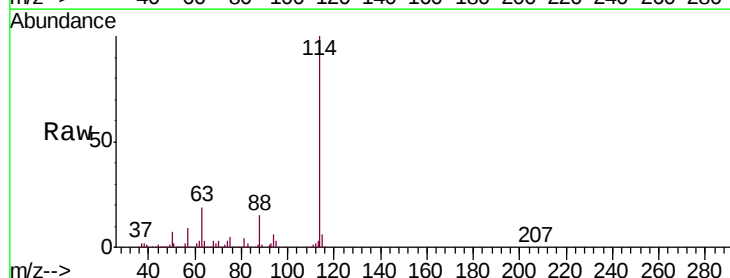
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-15

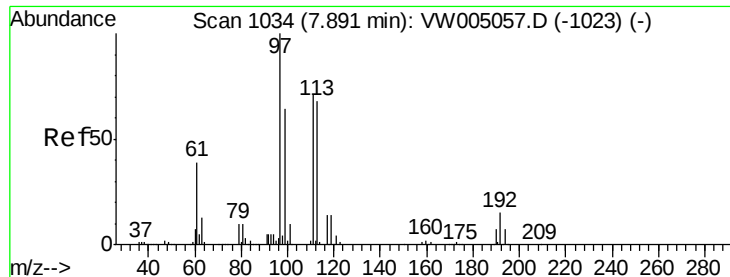
Tgt Ion: 65 Resp: 125452  
 Ion Ratio Lower Upper  
 65 100  
 67 55.2 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW005095.D  
 Acq: 04 Sep 2018 21:55

Tgt Ion: 114 Resp: 477895  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 38.0  
 88 14.6 0.0 30.2

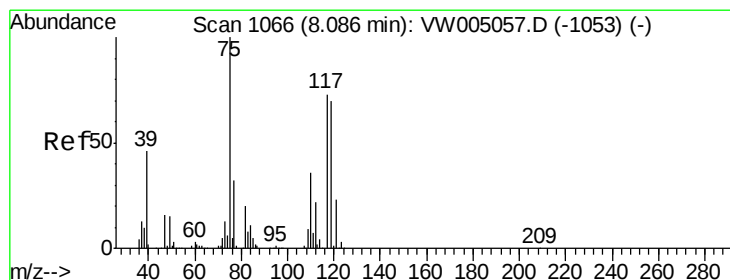
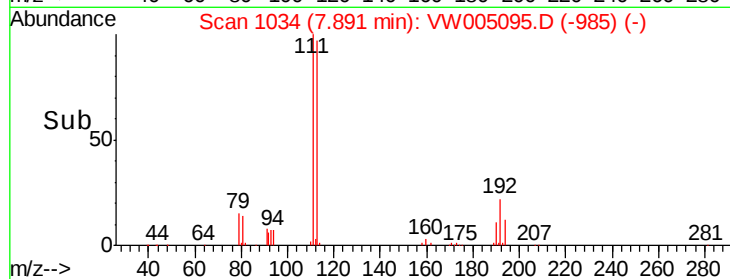
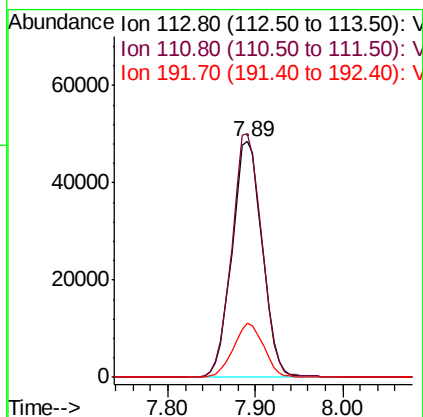
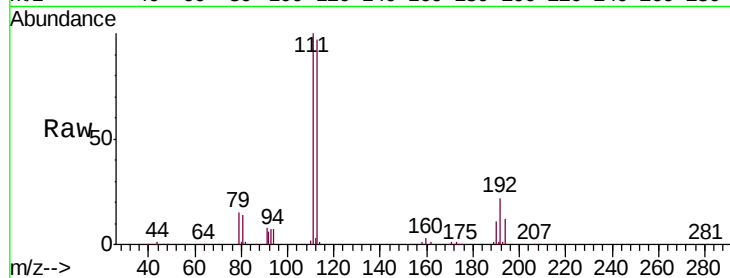




#35  
 Dibromofluoromethane  
 Concen: 42.316 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. -0.00 min  
 Lab File: VW005095.D  
 Acq: 04 Sep 2018 21:55

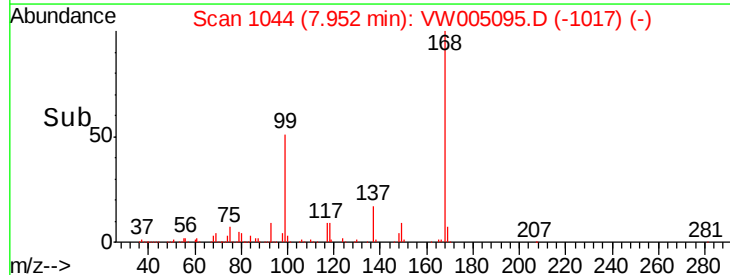
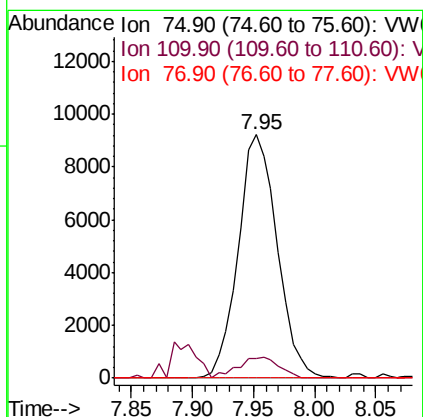
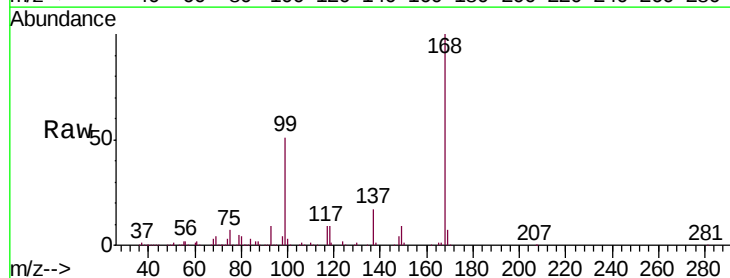
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-15

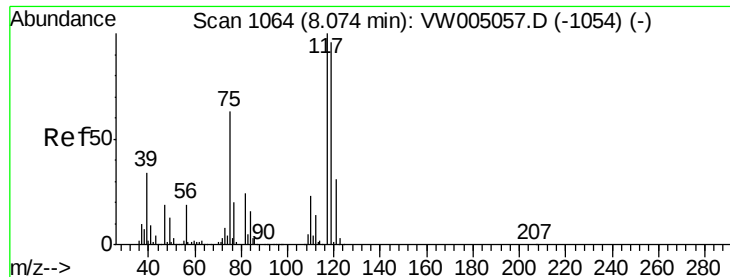
Tgt Ion:113 Resp: 116863  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.2 123.2  
 192 22.8 18.1 27.1



#36  
 1,1-Dichloropropene  
 Concen: 4.473 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW005095.D  
 Acq: 04 Sep 2018 21:55

Tgt Ion: 75 Resp: 20359  
 Ion Ratio Lower Upper  
 75 100  
 110 8.4 18.9 56.7#  
 77 0.0 25.5 38.3#





#38

Carbon Tetrachloride

Concen: 6.432 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.12 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

Instrument :

MSVOA\_W

ClientSampleId :

SB-15

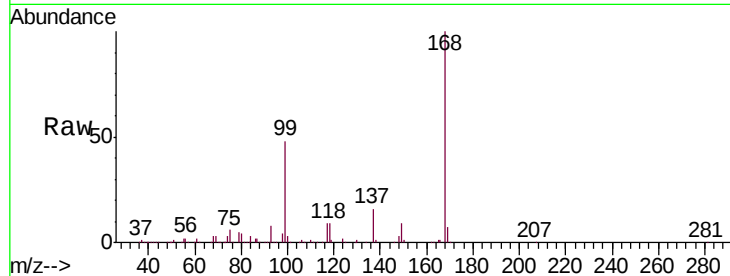
Tgt Ion:117 Resp: 27837

Ion Ratio Lower Upper

117 100

119 5.8 76.6 115.0#

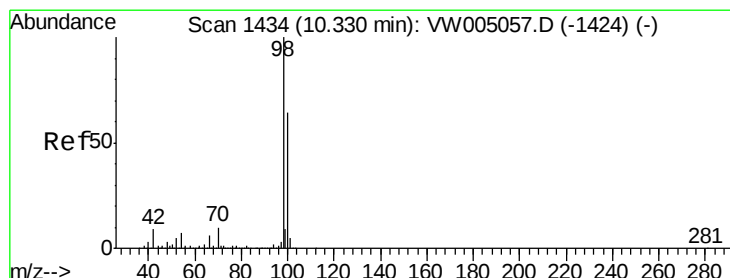
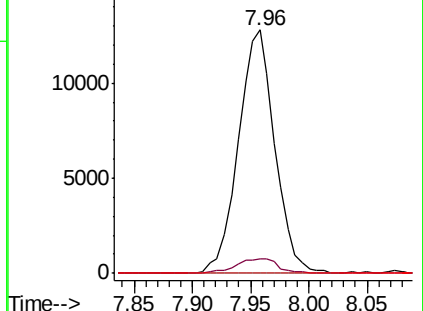
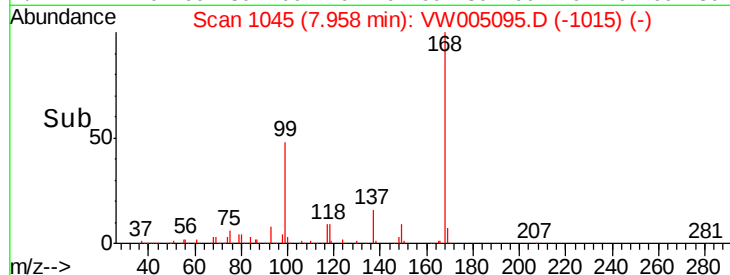
121 0.0 24.8 37.2#



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: 36.533 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW005095.D

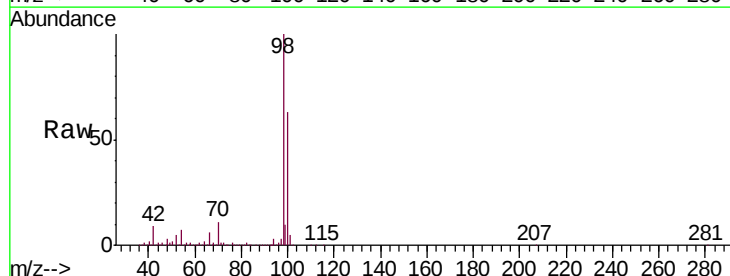
Acq: 04 Sep 2018 21:55

Tgt Ion: 98 Resp: 464890

Ion Ratio Lower Upper

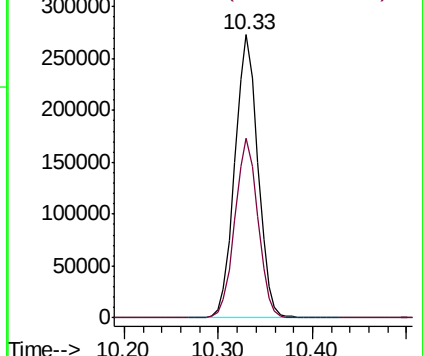
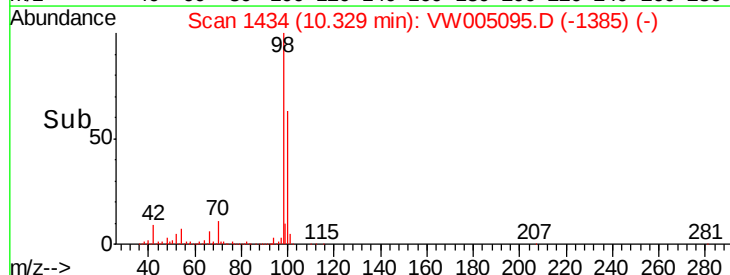
98 100

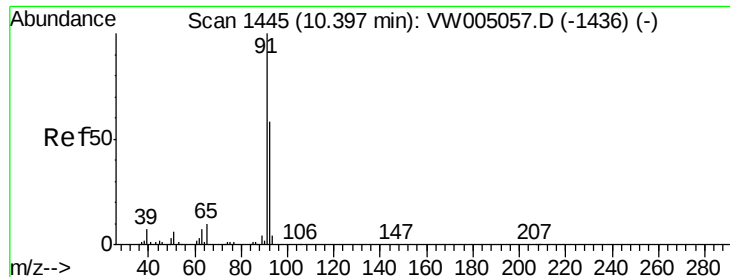
100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.929 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. -0.00 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

Instrument :

MSVOA\_W

ClientSampled :

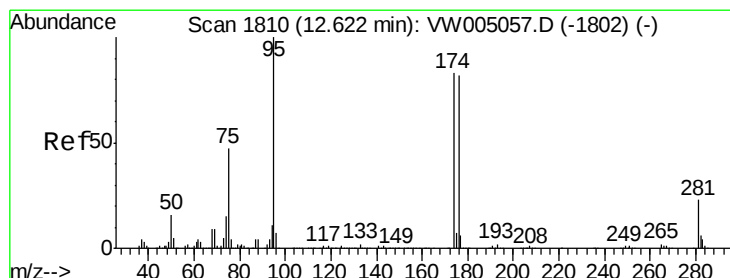
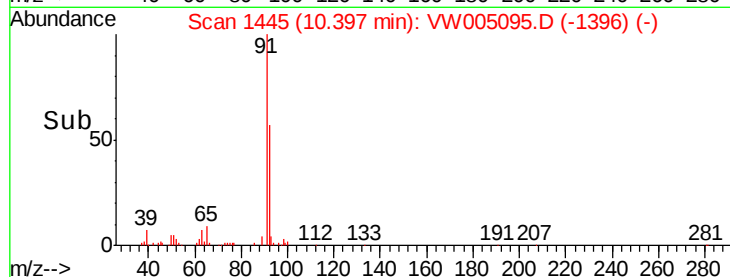
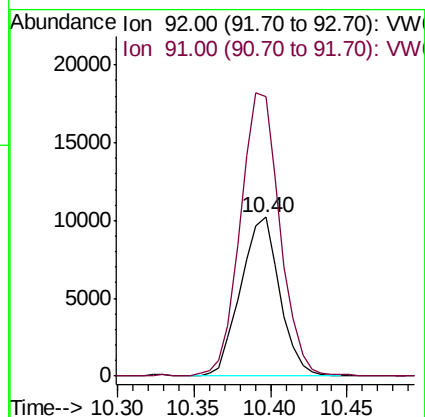
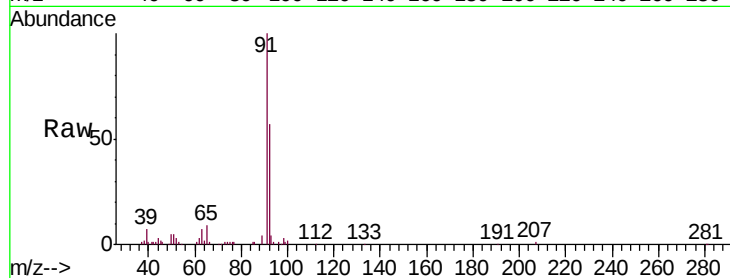
SB-15

Tgt Ion: 92 Resp: 18216

Ion Ratio Lower Upper

92 100

91 180.0 139.2 208.8



#62

4-Bromofluorobenzene

Concen: 35.367 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

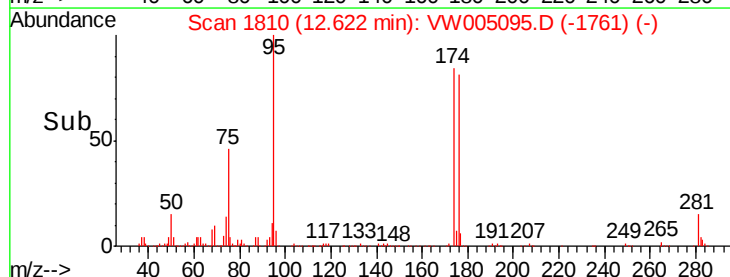
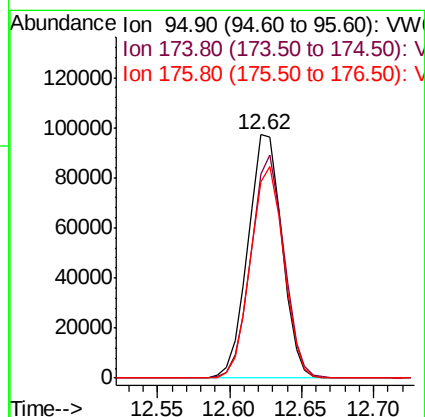
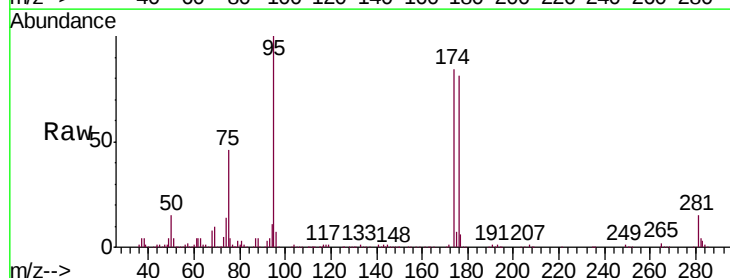
Tgt Ion: 95 Resp: 158693

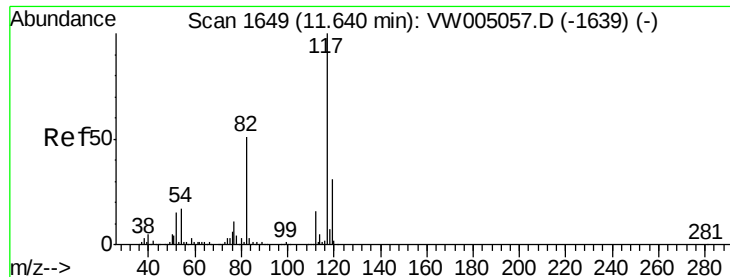
Ion Ratio Lower Upper

95 100

174 89.1 0.0 173.4

176 85.1 0.0 167.4

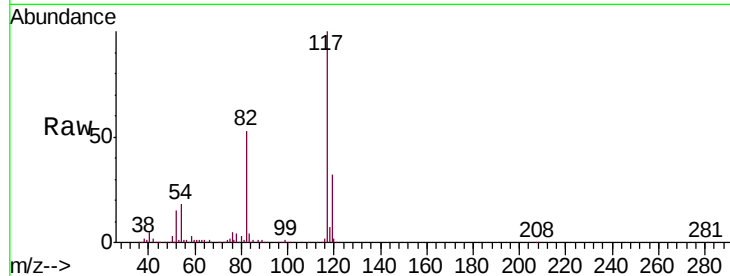




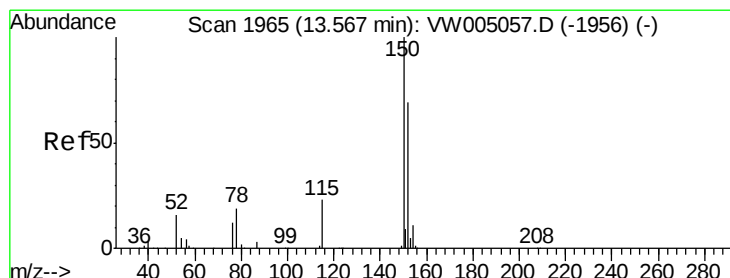
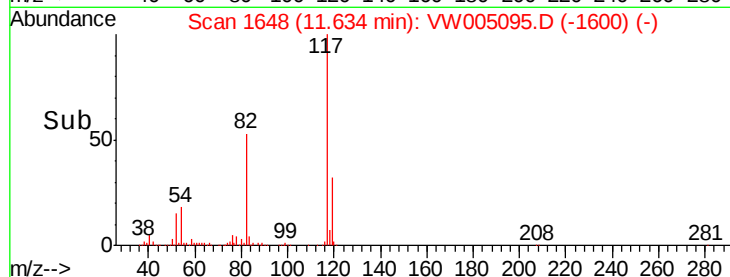
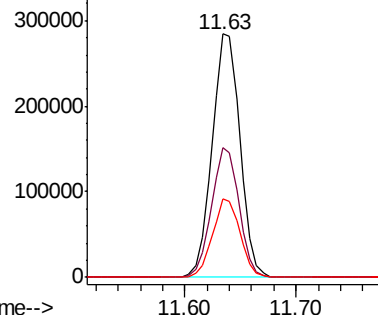
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW005095.D  
Acq: 04 Sep 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-15

Tgt Ion:117 Resp: 491804  
Ion Ratio Lower Upper  
117 100  
82 53.4 40.9 61.3  
119 32.0 24.9 37.3

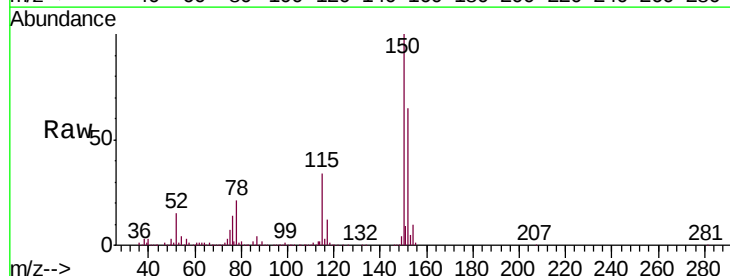


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

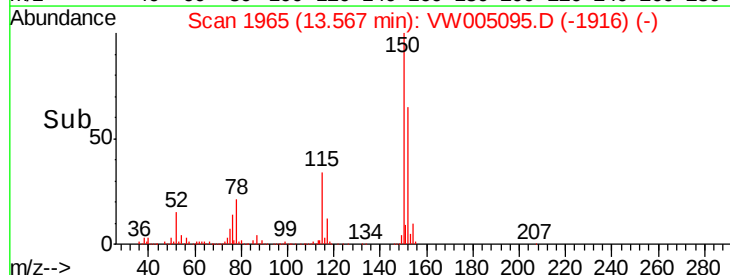
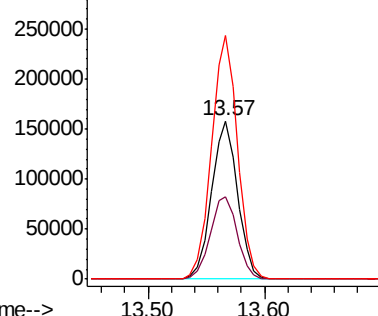


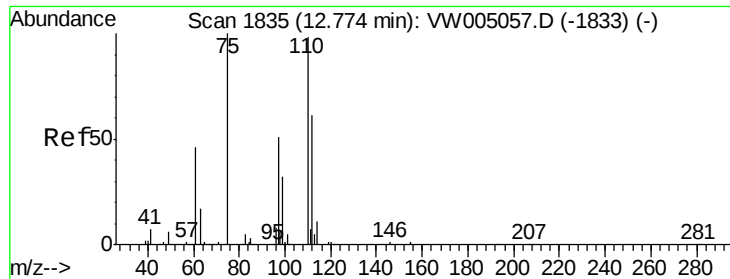
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW005095.D  
Acq: 04 Sep 2018 21:55

Tgt Ion:152 Resp: 244934  
Ion Ratio Lower Upper  
152 100  
115 54.1 27.8 83.4  
150 154.3 0.0 351.4



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: 39.011 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

Instrument :

MSVOA\_W

ClientSampled :

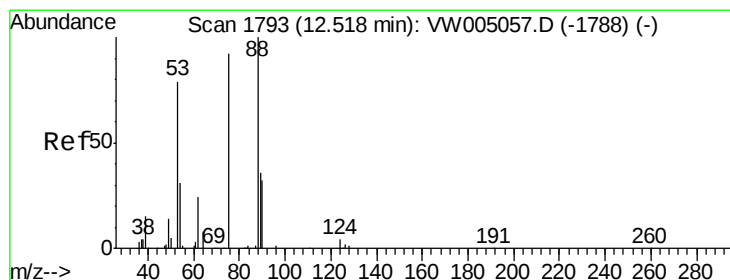
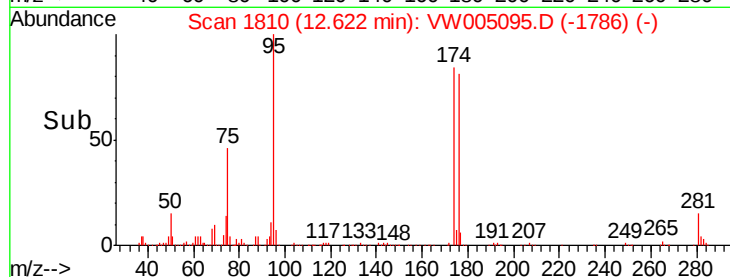
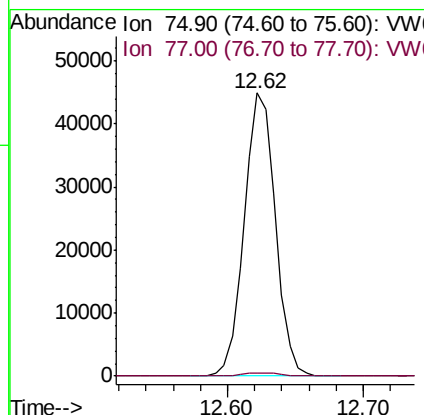
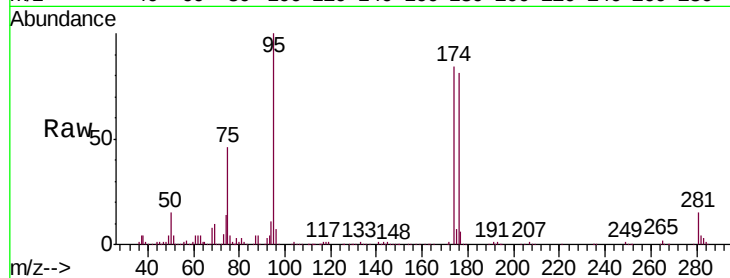
SB-15

Tgt Ion: 75 Resp: 71722

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 93.894 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW005095.D

Acq: 04 Sep 2018 21:55

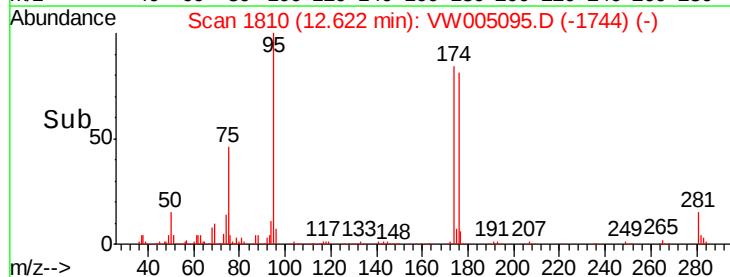
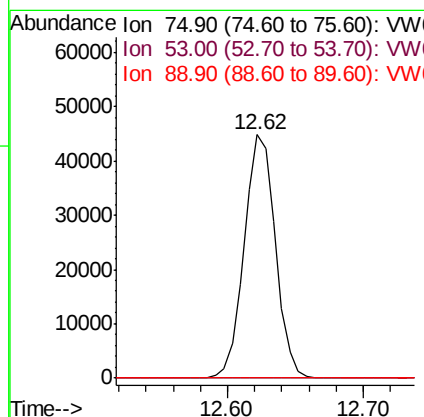
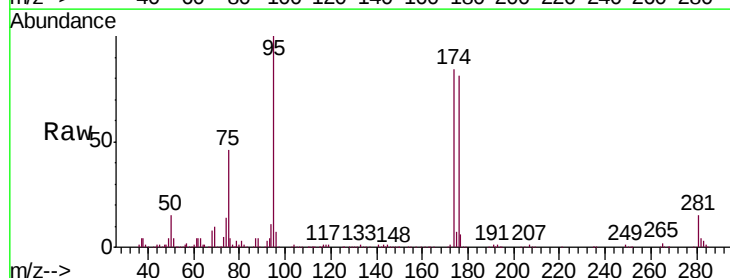
Tgt Ion: 75 Resp: 71722

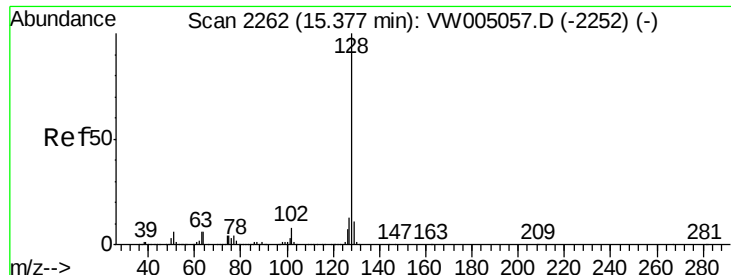
Ion Ratio Lower Upper

75 100

53 0.3 69.8 104.8#

89 0.1 36.0 54.0#

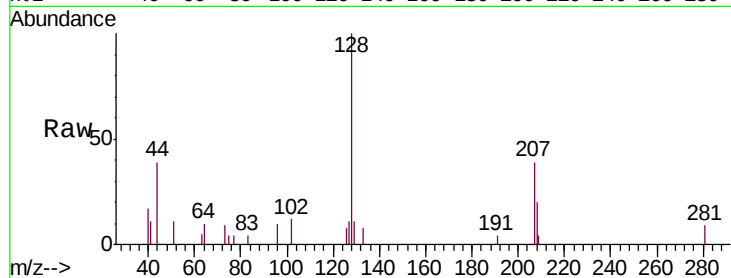




#95  
Naphthalene  
Concen: 4.257 ug/l  
RT: 15.38 min Scan# 2263  
Delta R.T. 0.01 min  
Lab File: VW005095.D  
Acq: 04 Sep 2018 21:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.9  | 10.4  | 15.6  |
| 129     | 11.0  | 8.7   | 13.1  |



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

