

Data File : VW004838.D  
Acq On : 21 Aug 2018 13:54  
Operator : SY/AP  
Sample : J4538-02RE  
Misc : 11.25G/5ML/MSVOA\_W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSS2

Quant Time: Aug 22 05:17:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 18 01:49:53 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 542092   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 865178   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 792866   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 315634   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 317966   | 60.67 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 121.34% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 298658   | 54.01 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.02% |      |
| 50) Toluene-d8              | 10.33  | 98  | 1021931  | 47.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.68%  |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 305845   | 39.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 78.76%  |      |

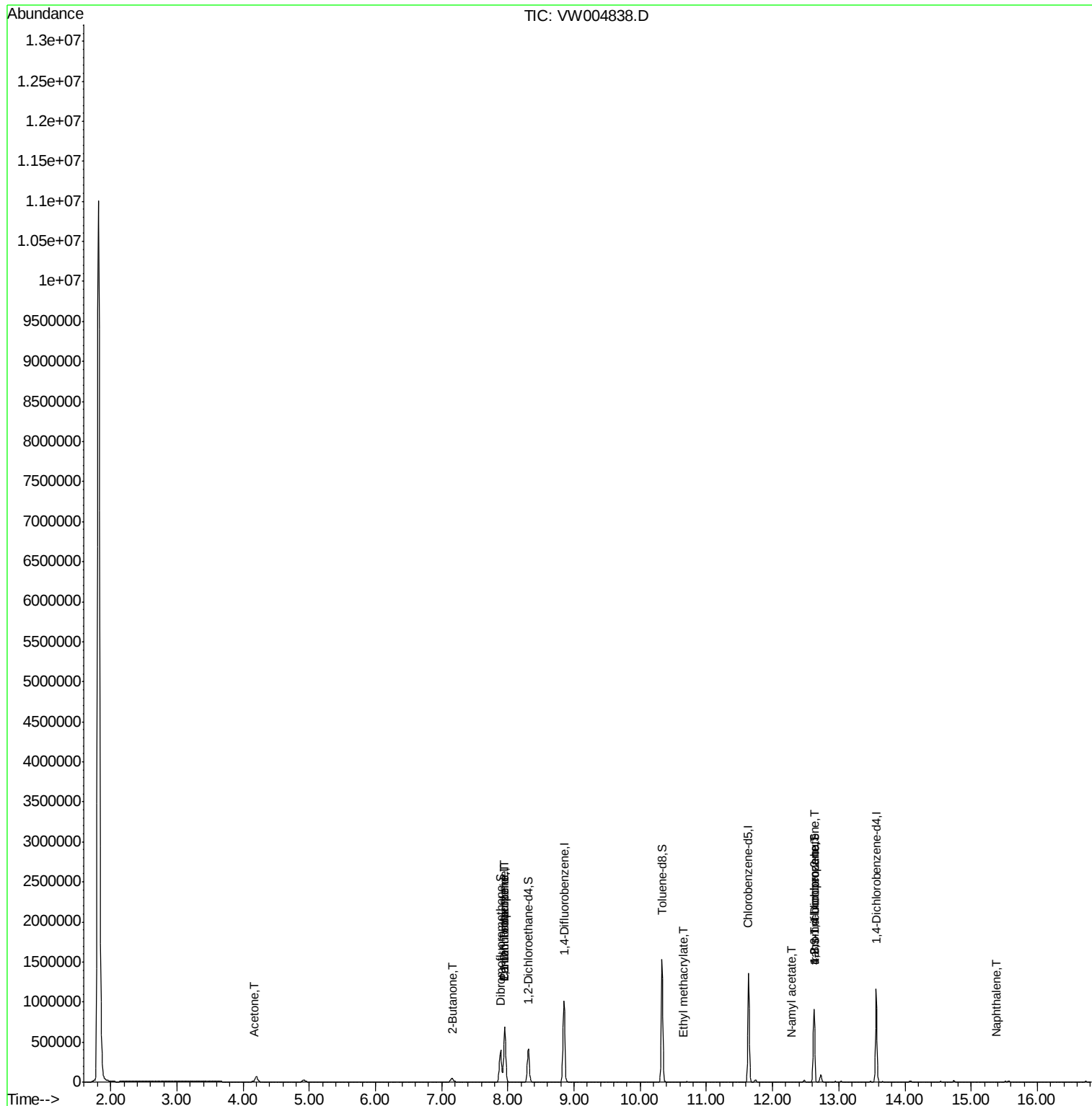
|                                |       |     |        |           |        |     |
|--------------------------------|-------|-----|--------|-----------|--------|-----|
| Target Compounds               |       |     |        | Qvalue    |        |     |
| 16) Acetone                    | 4.15  | 43  | 10260  | 7.669     | ug/l   | 93  |
| 20) Methylene Chloride         | 4.91  | 84  | 18529  | Below Cal |        | 94  |
| 25) 2-Butanone                 | 7.17  | 43  | 3128   | 1.641     | ug/l # | 67  |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 39265  | 4.405     | ug/l # | 49  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 48308  | 5.888     | ug/l # | 16  |
| 56) Ethyl methacrylate         | 10.65 | 69  | 95     | 2.996     | ug/l # | 27  |
| 74) N-amyl acetate             | 12.27 | 43  | 120    | 4.041     | ug/l # | 40  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 145011 | 52.117    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 145011 | 121.135   | ug/l # | 14  |
| 95) Naphthalene                | 15.38 | 128 | 1310   | 3.601     | ug/l # | 83  |

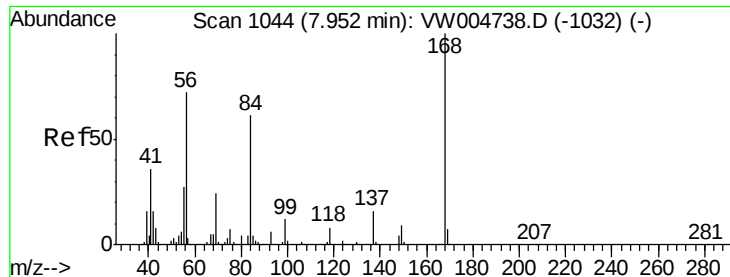
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW004838.D

Acq: 21 Aug 2018 13:54

Instrument :

MSVOA\_W

ClientSampled :

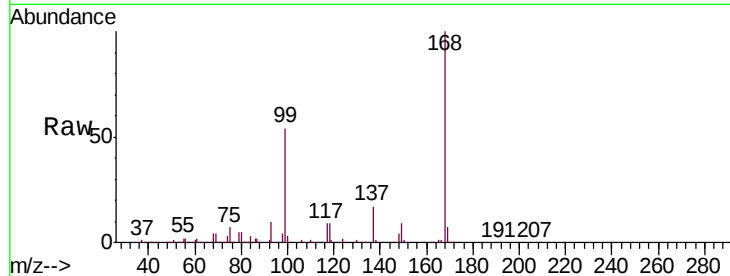
VSS2

Tgt Ion:168 Resp: 542092

Ion Ratio Lower Upper

168 100

99 53.8 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

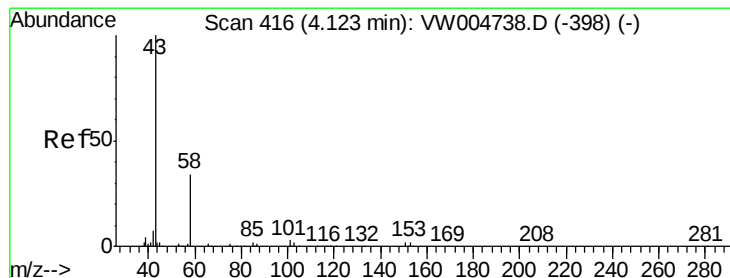
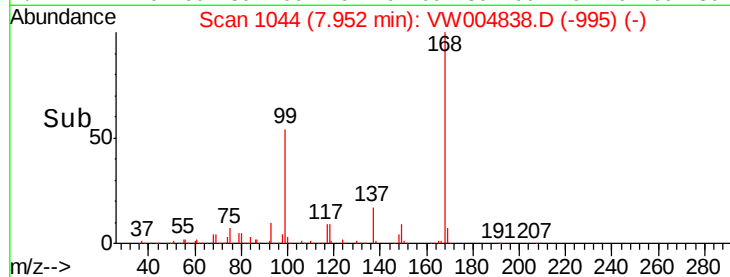
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#16

Acetone

Concen: 7.669 ug/l

RT: 4.15 min Scan# 421

Delta R.T. 0.03 min

Lab File: VW004838.D

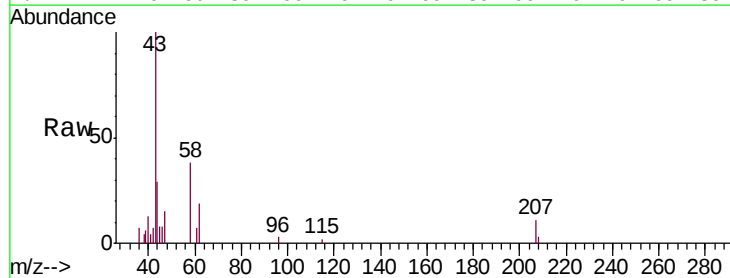
Acq: 21 Aug 2018 13:54

Tgt Ion: 43 Resp: 10260

Ion Ratio Lower Upper

43 100

58 38.3 27.3 40.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.15

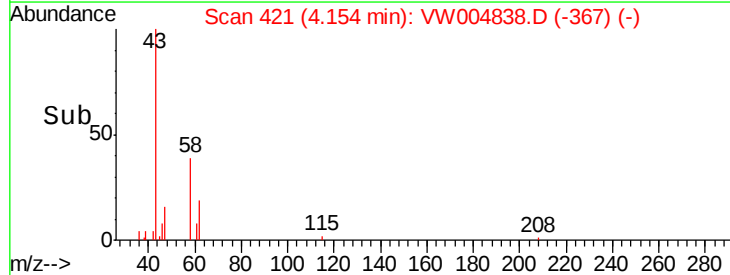
3000

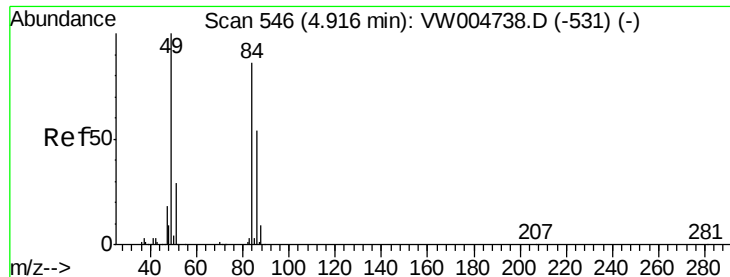
2000

1000

0

Time--> 4.00 4.10 4.20 4.30

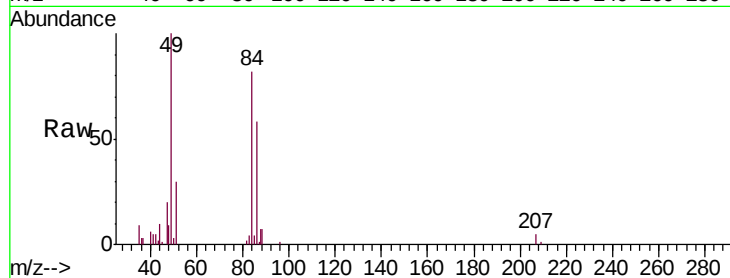




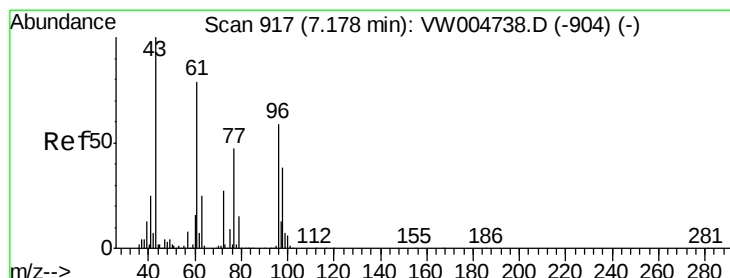
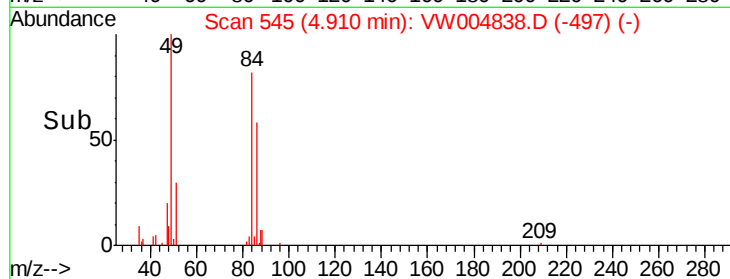
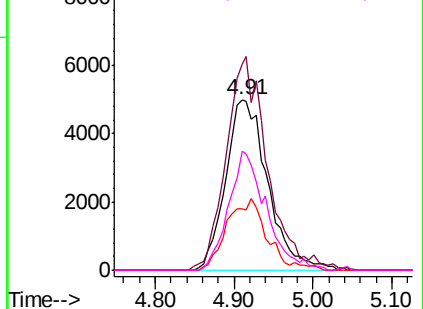
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.91 min Scan# 545  
Delta R.T. -0.01 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSS2

Tgt Ion: 84 Resp: 18529  
Ion Ratio Lower Upper  
84 100  
49 121.3 93.2 139.8  
51 36.4 27.4 41.0  
86 70.3 50.6 75.8

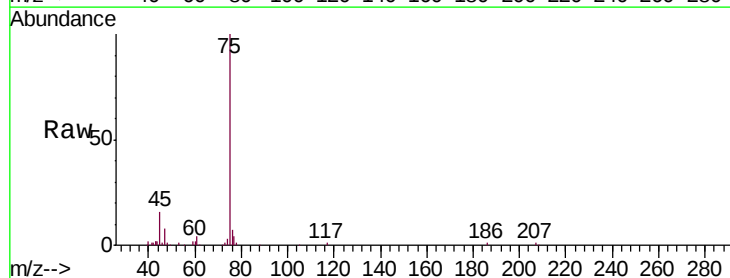


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

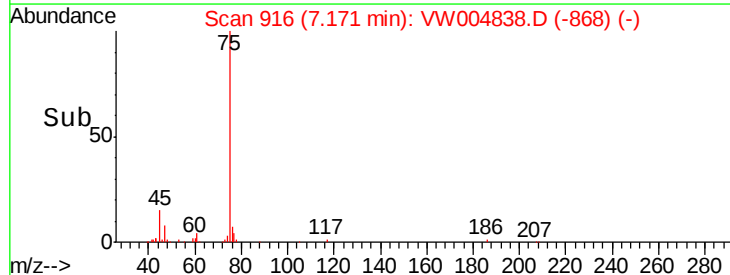
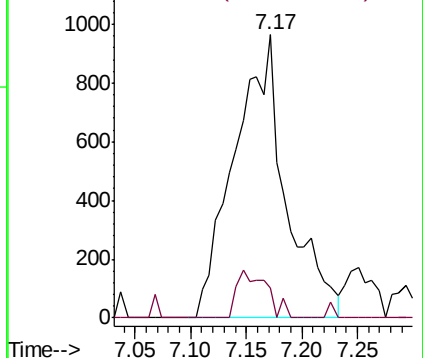


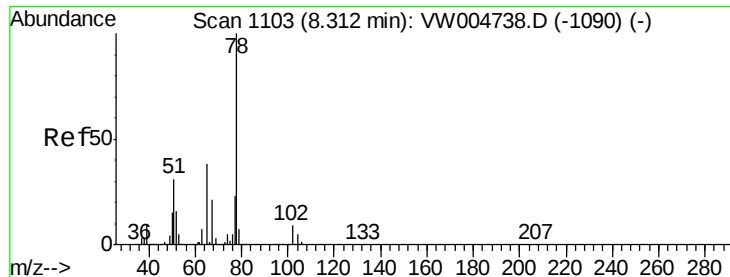
#25  
2-Butanone  
Concen: 1.641 ug/l  
RT: 7.17 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

Tgt Ion: 43 Resp: 3128  
Ion Ratio Lower Upper  
43 100  
72 10.5 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW

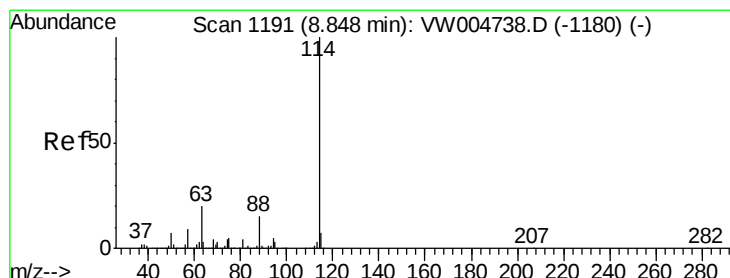
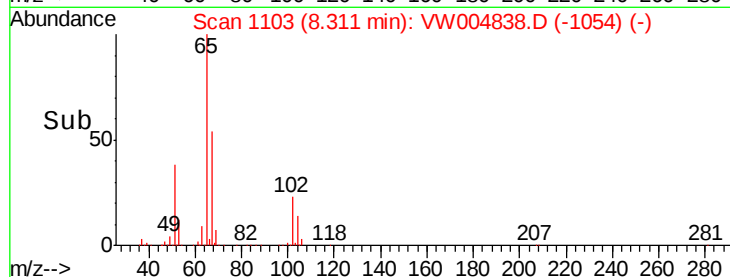
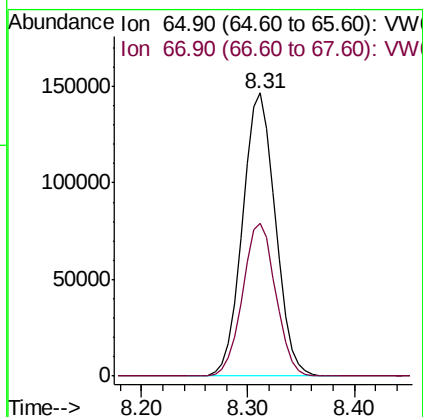
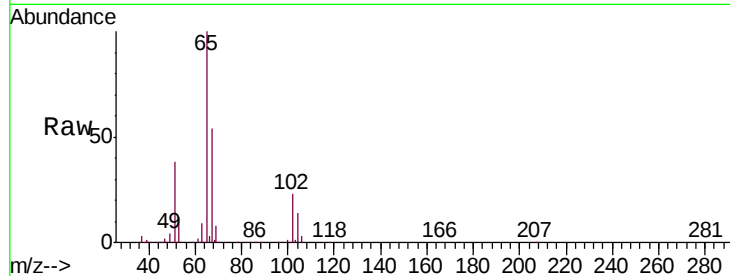




#33  
 1,2-Dichloroethane-d4  
 Concen: 60.669 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. -0.00 min  
 Lab File: VW004838.D  
 Acq: 21 Aug 2018 13:54

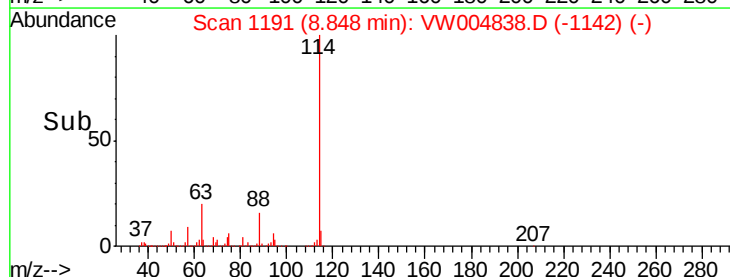
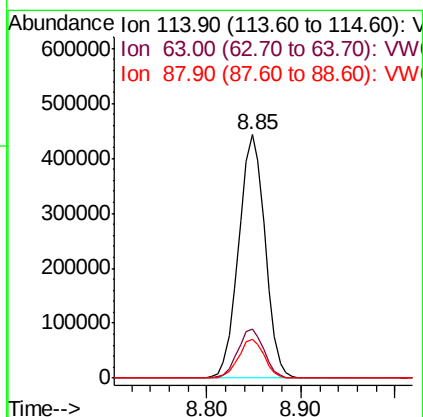
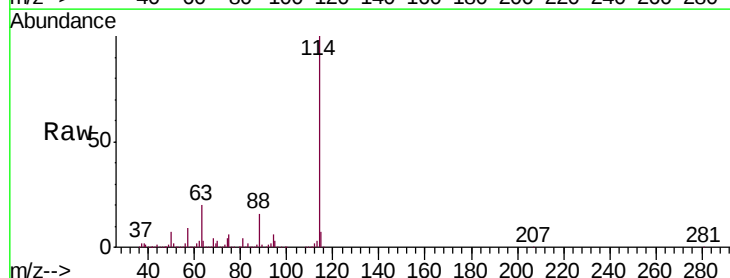
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSS2

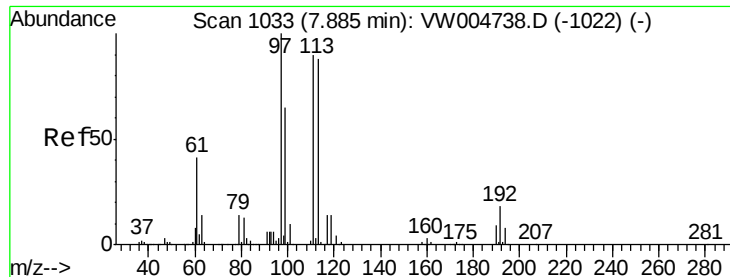
Tgt Ion: 65 Resp: 317966  
 Ion Ratio Lower Upper  
 65 100  
 67 54.4 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW004838.D  
 Acq: 21 Aug 2018 13:54

Tgt Ion: 114 Resp: 865178  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 39.0  
 88 15.7 0.0 30.0

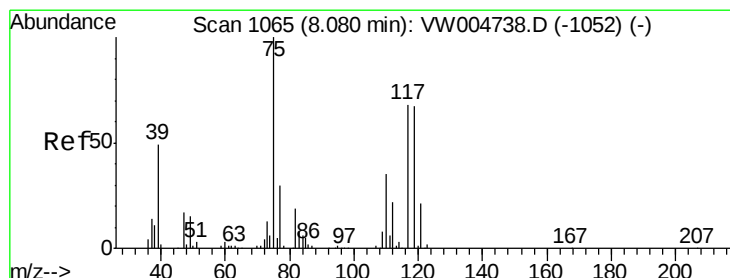
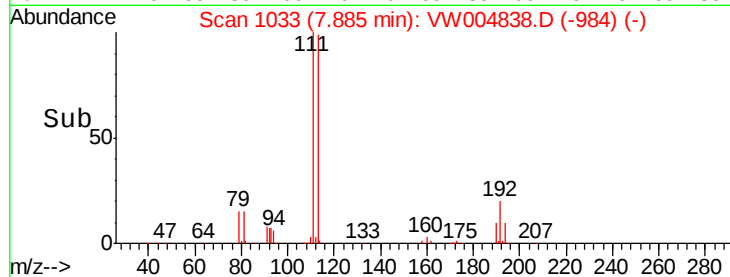
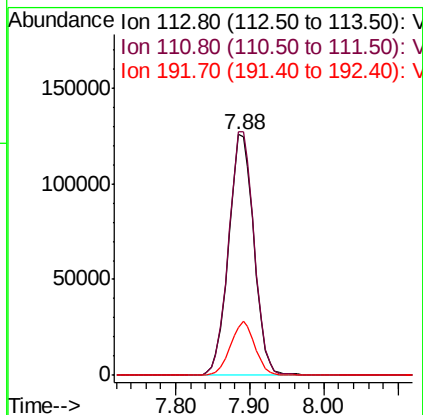
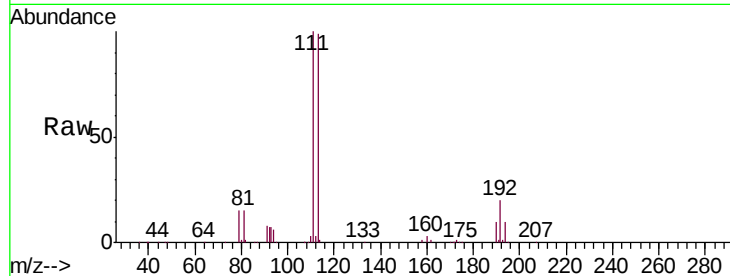




#35  
 Dibromofluoromethane  
 Concen: 54.010 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW004838.D  
 Acq: 21 Aug 2018 13:54

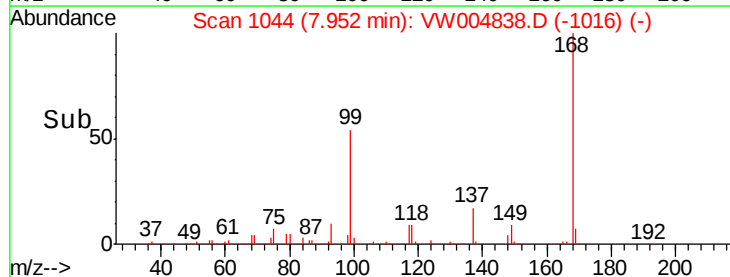
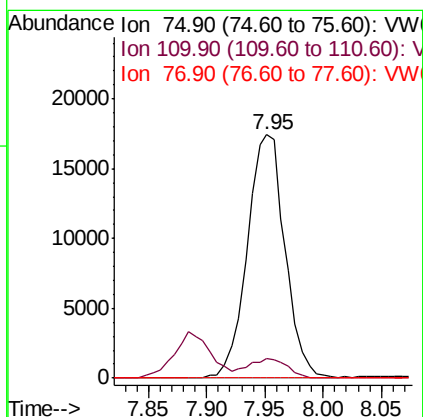
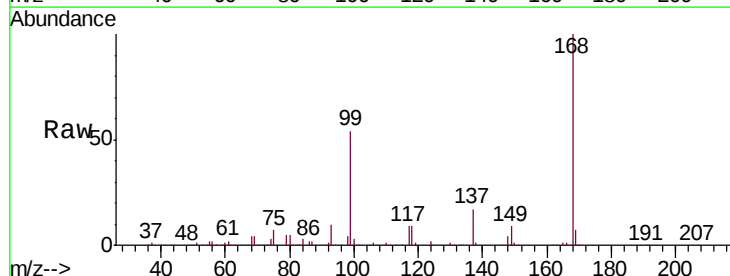
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSS2

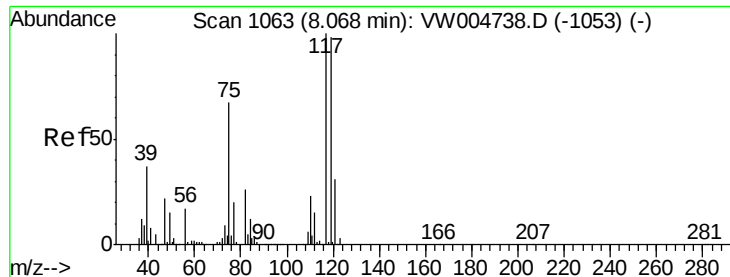
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 82.4  | 123.6 |
| 192     | 21.6  | 16.7  | 25.1  |



#36  
 1,1-Dichloropropene  
 Concen: 4.405 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW004838.D  
 Acq: 21 Aug 2018 13:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.4   | 17.8  | 53.5# |
| 77      | 0.0   | 24.9  | 37.3# |





#38

Carbon Tetrachloride

Concen: 5.888 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004838.D

Acq: 21 Aug 2018 13:54

Instrument :

MSVOA\_W

ClientSampleId :

VSS2

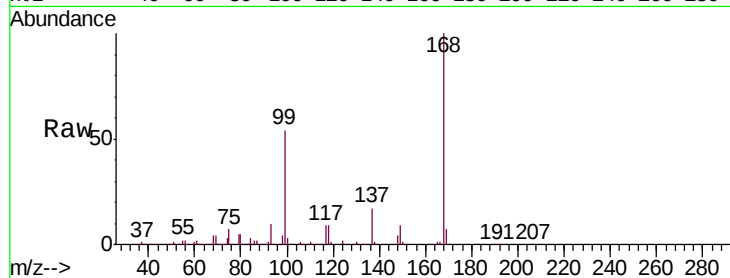
Tgt Ion:117 Resp: 48308

Ion Ratio Lower Upper

117 100

119 6.6 78.0 117.0#

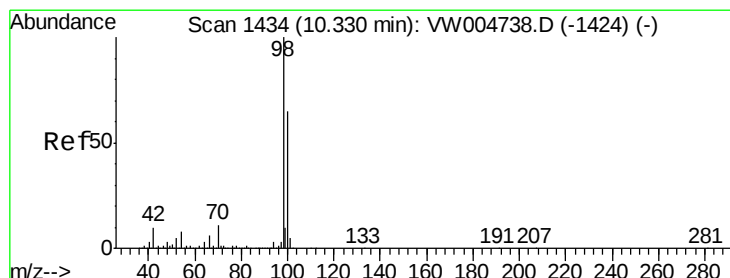
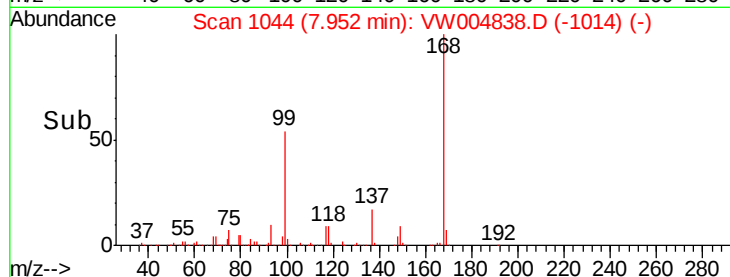
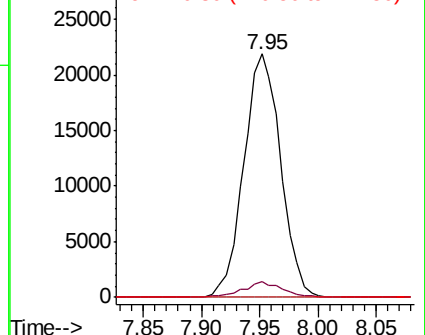
121 0.0 24.8 37.2#



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: 47.344 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004838.D

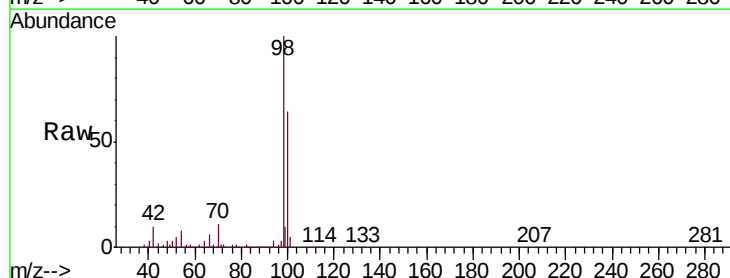
Acq: 21 Aug 2018 13:54

Tgt Ion: 98 Resp: 1021931

Ion Ratio Lower Upper

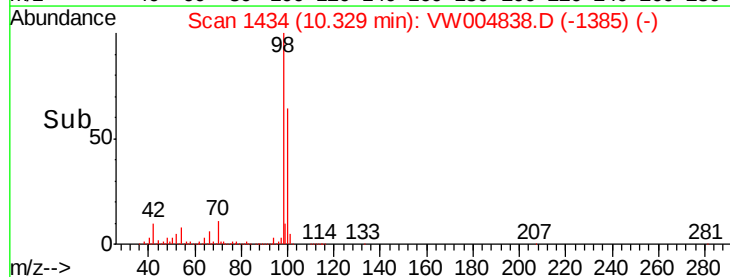
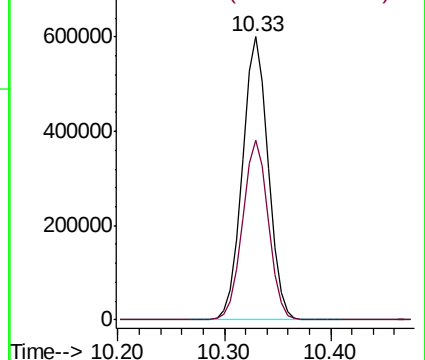
98 100

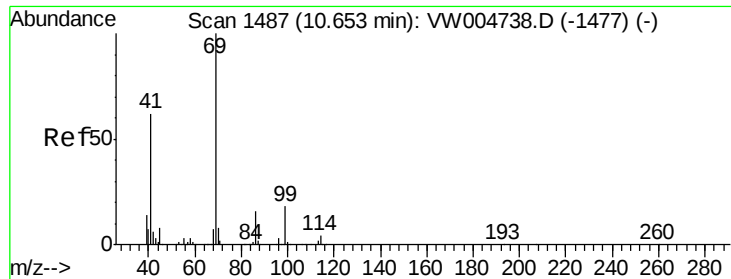
100 63.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

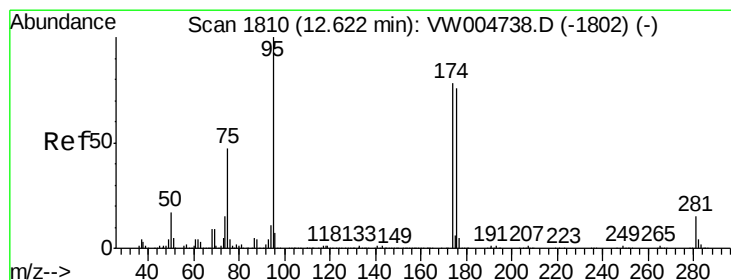
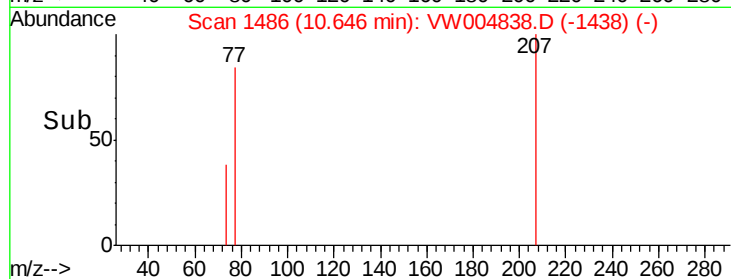
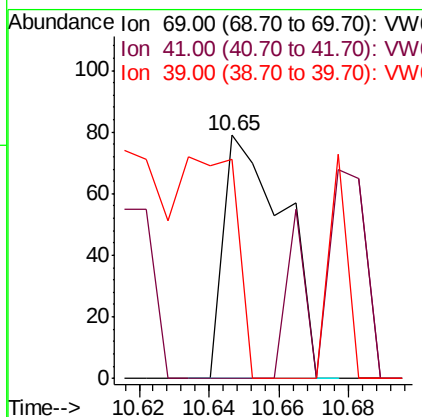
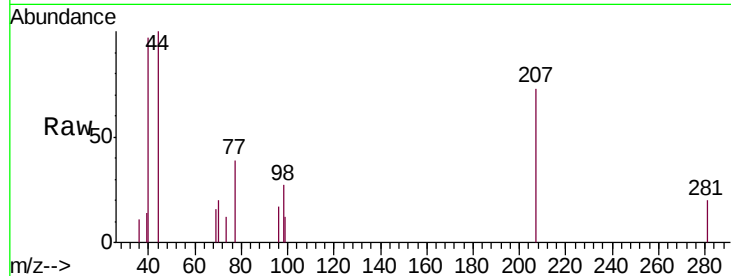




#56  
Ethyl methacrylate  
Concen: 2.996 ug/l  
RT: 10.65 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

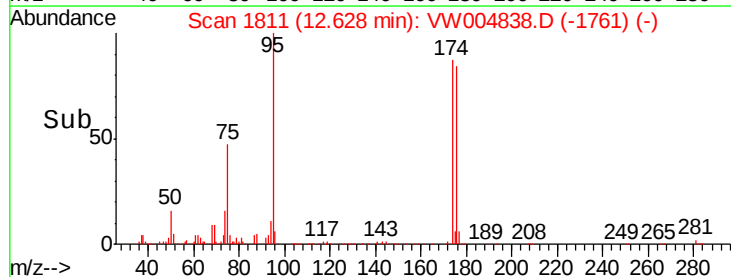
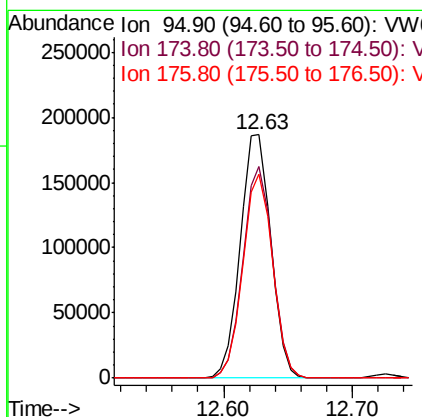
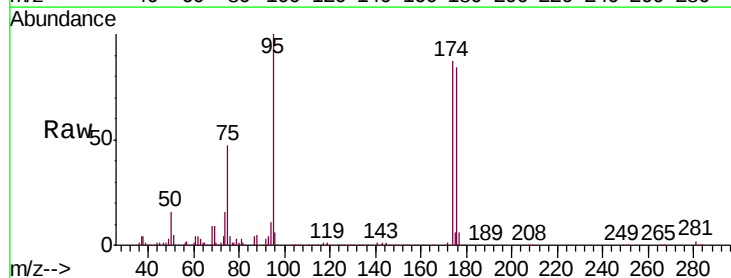
Instrument :  
MSVOA\_W  
ClientSampled :  
VSS2

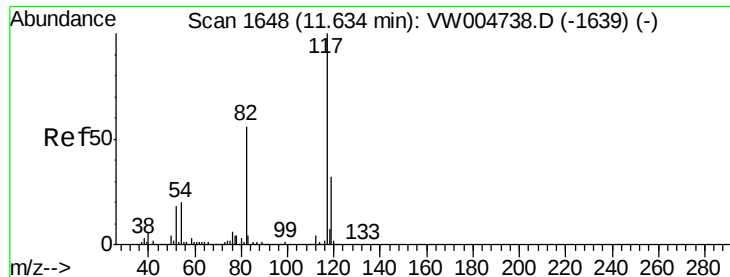
Tgt Ion: 69 Resp: 95  
Ion Ratio Lower Upper  
69 100  
41 0.0 50.7 76.1#  
39 0.0 21.4 32.2#



#62  
4-Bromofluorobenzene  
Concen: 39.384 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. 0.01 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

Tgt Ion: 95 Resp: 305845  
Ion Ratio Lower Upper  
95 100  
174 84.1 0.0 165.8  
176 81.3 0.0 159.8

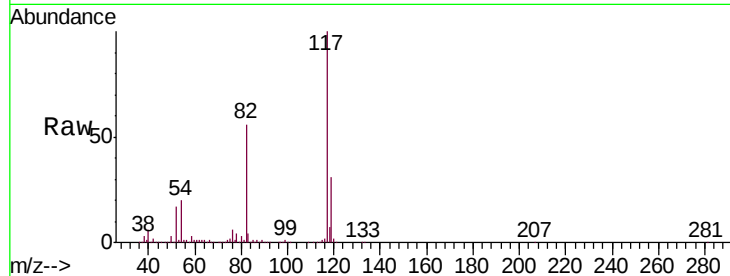




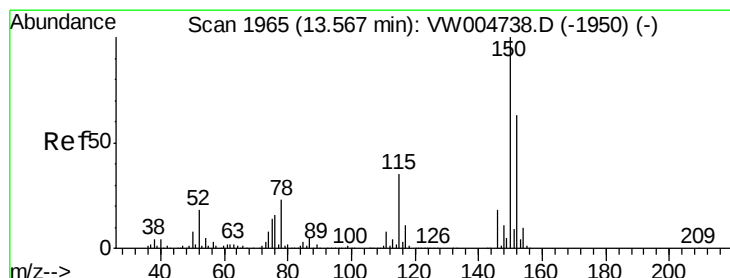
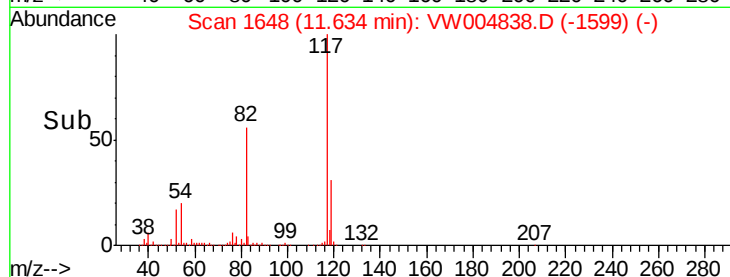
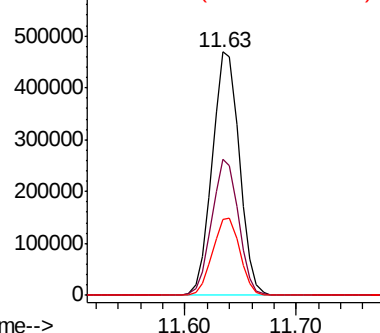
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSS2

Tgt Ion:117 Resp: 792866  
Ion Ratio Lower Upper  
117 100  
82 55.8 44.6 67.0  
119 31.4 25.6 38.4

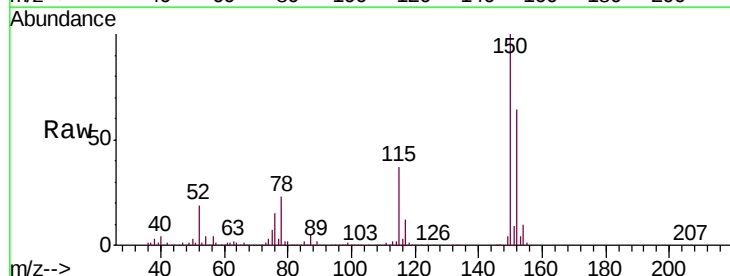


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

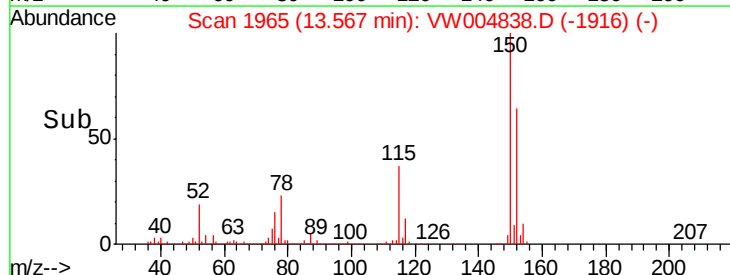
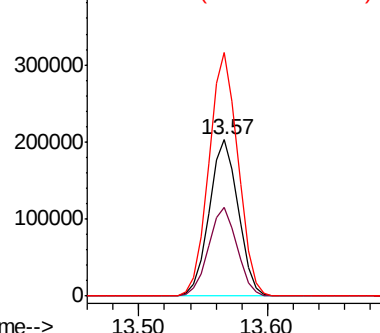


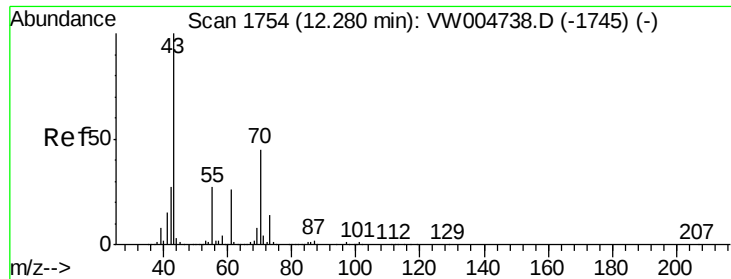
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

Tgt Ion:152 Resp: 315634  
Ion Ratio Lower Upper  
152 100  
115 56.3 28.5 85.5  
150 156.7 0.0 344.8



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





#74

N-ethyl acetate

Concen: 4.041 ug/l

RT: 12.27 min Scan# 1753

Delta R.T. -0.01 min

Lab File: VW004838.D

Acq: 21 Aug 2018 13:54

Instrument :

MSVOA\_W

ClientSampled :

VSS2

Tgt Ion: 43 Resp: 120

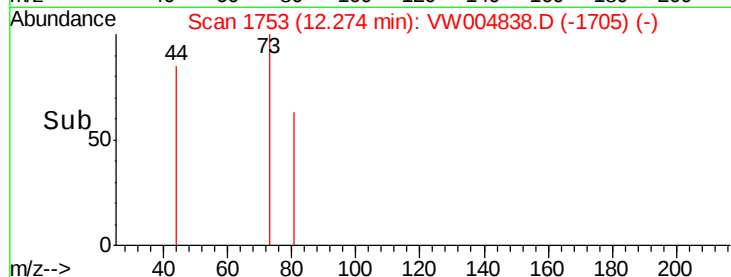
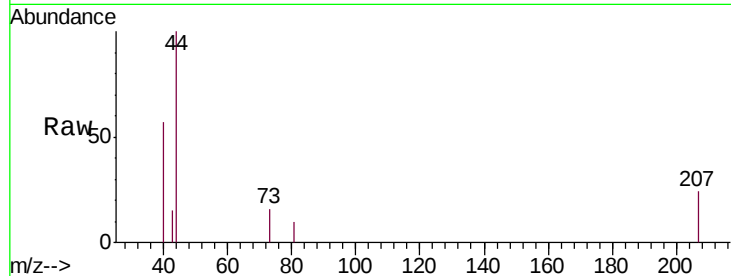
Ion Ratio Lower Upper

43 100

70 0.0 36.3 54.5#

55 0.0 22.6 33.8#

61 0.0 20.2 30.4#

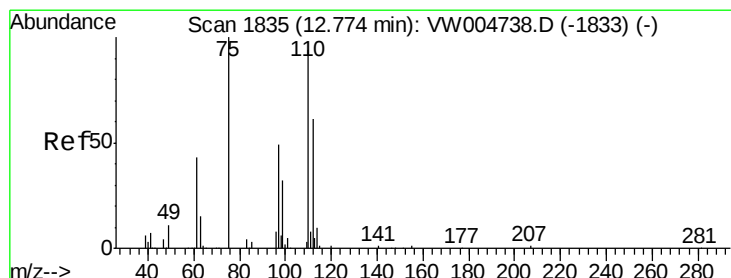
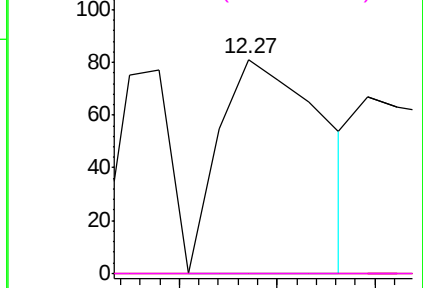


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 52.117 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004838.D

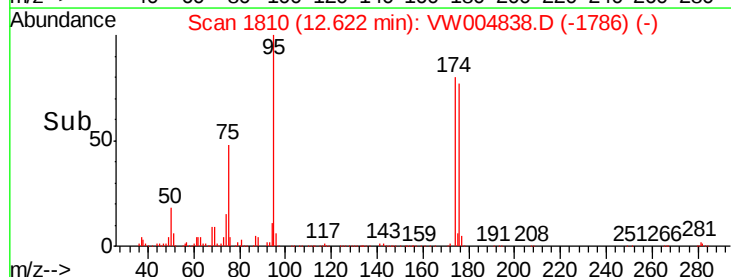
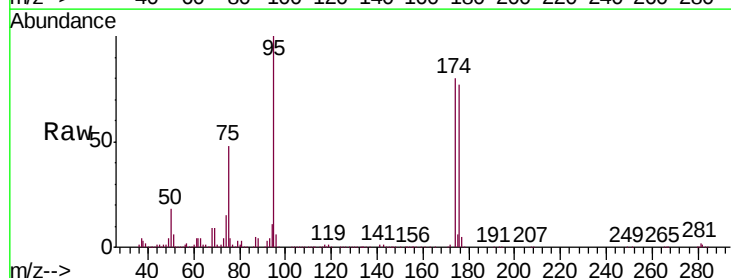
Acq: 21 Aug 2018 13:54

Tgt Ion: 75 Resp: 145011

Ion Ratio Lower Upper

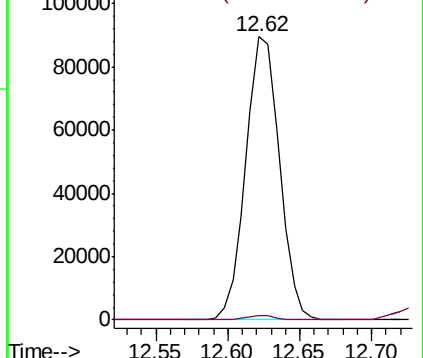
75 100

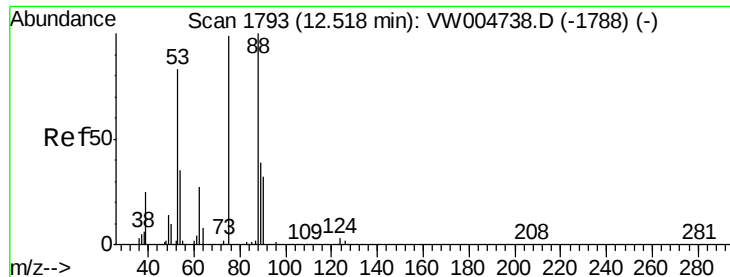
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

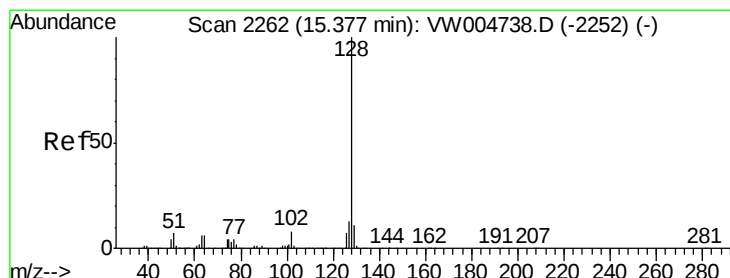
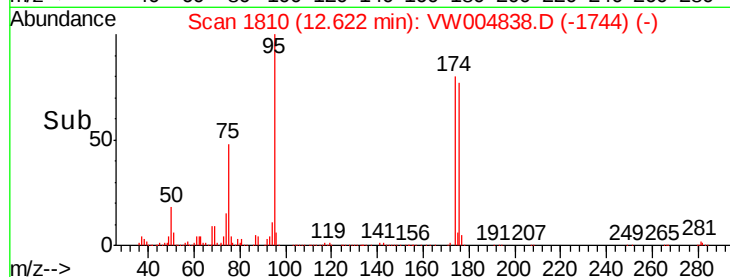
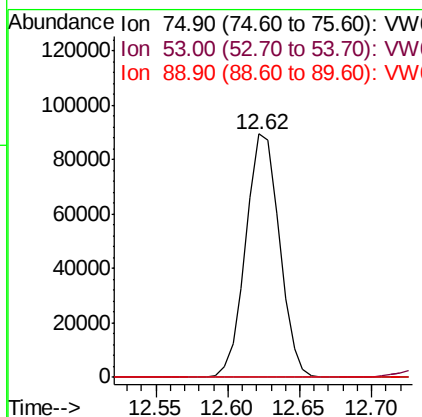
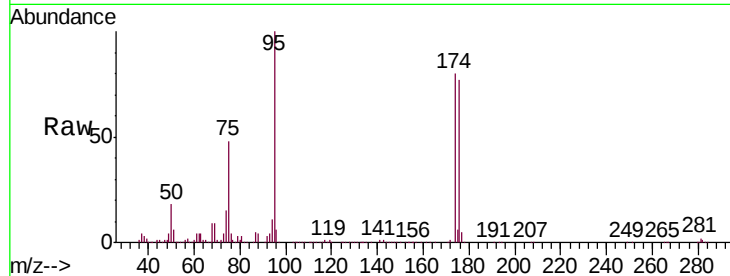




#81  
trans-1,4-Dichloro-2-butene  
Concen: 121.135 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.10 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSS2

Tgt Ion: 75 Resp: 145011  
Ion Ratio Lower Upper  
75 100  
53 0.3 72.2 108.4#  
89 0.0 35.2 52.8#



#95  
Naphthalene  
Concen: 3.601 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW004838.D  
Acq: 21 Aug 2018 13:54

Tgt Ion: 128 Resp: 1310  
Ion Ratio Lower Upper  
128 100  
127 19.7 10.4 15.6#  
129 4.1 8.6 13.0#

