

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD121918\  
 Data File : VD060638.D  
 Acq On : 19 Dec 2018 14:10  
 Operator : VA/AP  
 Sample : J6475-01  
 Misc : 5.04G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SLUDGE

Quant Time: Dec 20 01:08:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.40  | 168  | 1482290  | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 1940422  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1319544  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 471605   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   |        | 6.79  | 65   | 463997   | 44.16 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 88.32% |          |
| 35) Dibromofluoromethane    |        | 6.32  | 113  | 654139   | 45.90 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 91.80% |          |
| 50) Toluene-d8              |        | 9.45  | 98   | 1737950  | 42.14 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 84.28% |          |
| 62) 4-Bromofluorobenzene    |        | 12.43 | 95   | 498383   | 33.77 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 67.54% |          |

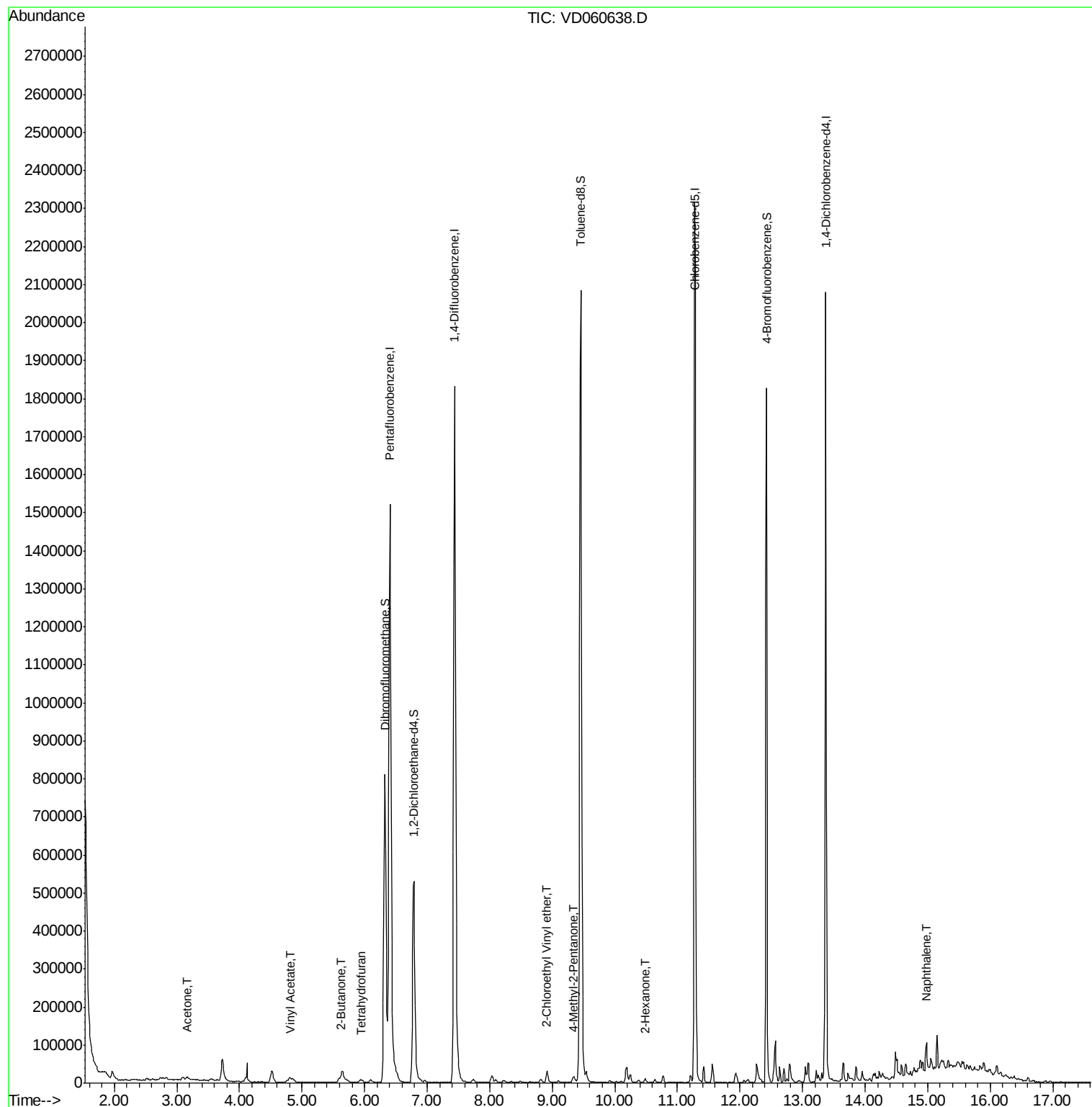
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                   | 3.17  | 43   | 17455    | 10.365 | ug/l   | 94     |
| 23) Vinyl Acetate             | 4.81  | 43   | 32810    | 1.312  | ug/l # | 94     |
| 25) 2-Butanone                | 5.62  | 43   | 12930    | 3.902  | ug/l # | 87     |
| 29) Tetrahydrofuran           | 5.95  | 42   | 5868     | 3.128  | ug/l # | 86     |
| 51) 4-Methyl-2-Pentanone      | 9.34  | 43   | 19470    | 3.082  | ug/l   | 97     |
| 58) 2-Chloroethyl Vinyl ether | 8.92  | 63   | 13808    | 3.022  | ug/l   | 98     |
| 59) 2-Hexanone                | 10.49 | 43   | 10978    | 2.487  | ug/l   | 88     |
| 95) Naphthalene               | 14.96 | 128  | 13006    | 1.077  | ug/l   | 97     |

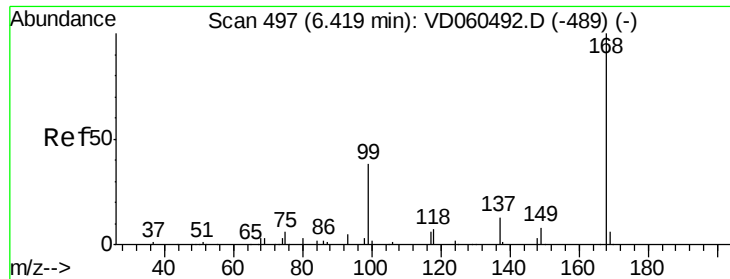
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD121918\  
Data File : VD060638.D  
Acq On : 19 Dec 2018 14:10  
Operator : VA/AP  
Sample : J6475-01  
Misc : 5.04G/5ml/MSVOA\_D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SLUDGE

Quant Time: Dec 20 01:08:05 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 06 01:49:20 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA\_D

ClientSampleId :

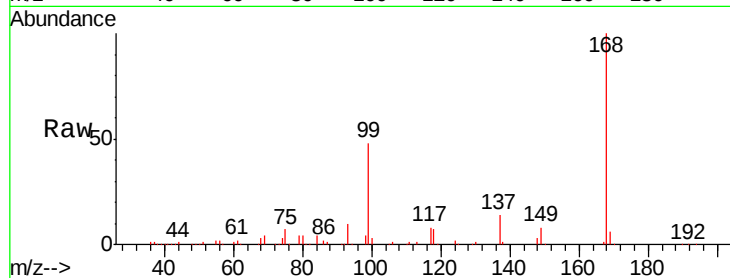
SLUDGE

Tgt Ion:168 Resp: 1482290

Ion Ratio Lower Upper

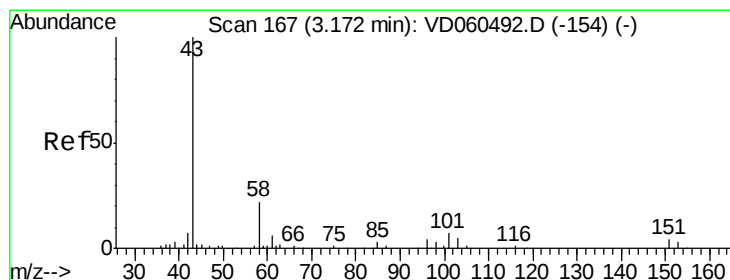
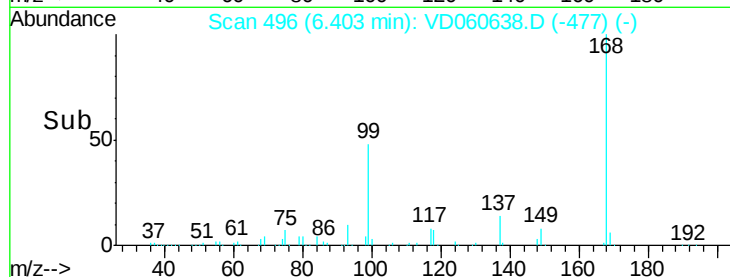
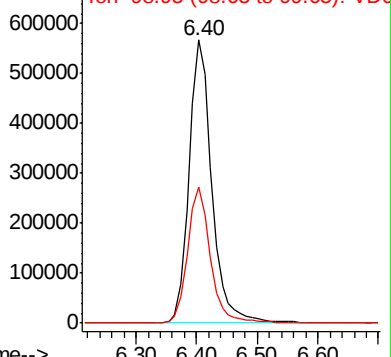
168 100

99 48.3 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 10.365 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD060638.D

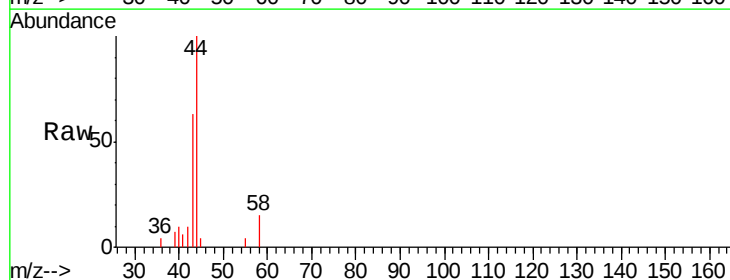
Acq: 19 Dec 2018 14:10

Tgt Ion: 43 Resp: 17455

Ion Ratio Lower Upper

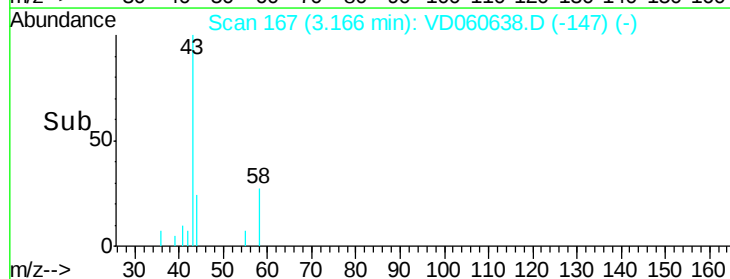
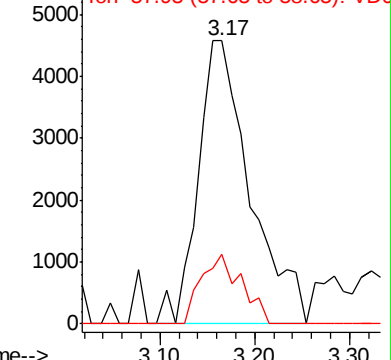
43 100

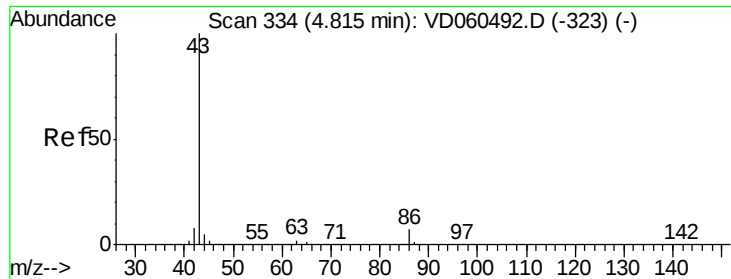
58 24.4 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#23

Vinyl Acetate

Concen: 1.312 ug/l

RT: 4.81 min Scan# 334

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA\_D

ClientSampleId :

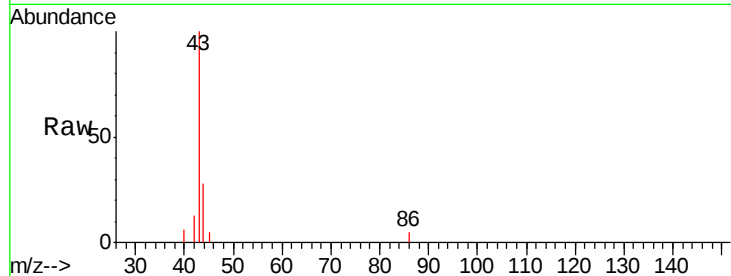
SLUDGE

Tgt Ion: 43 Resp: 32810

Ion Ratio Lower Upper

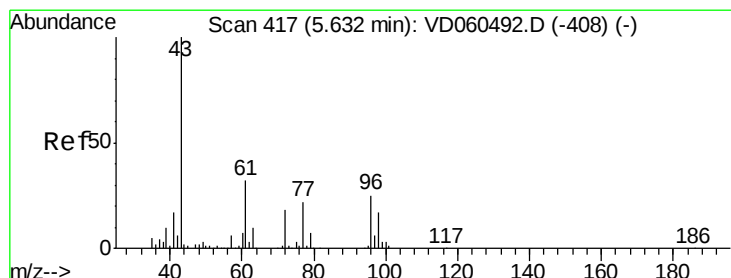
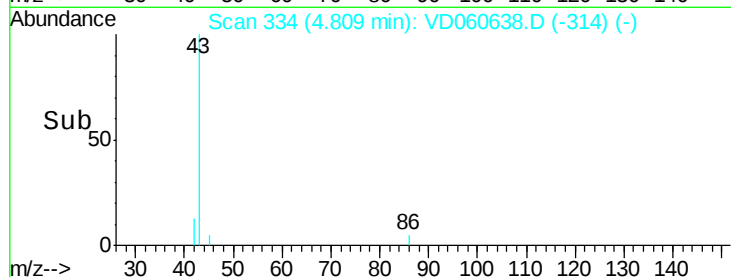
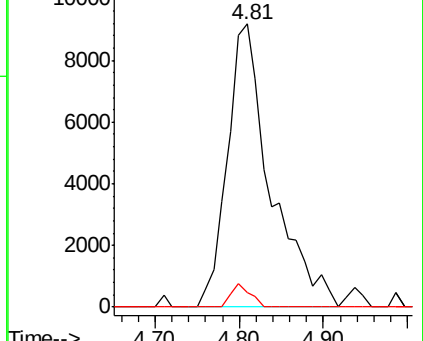
43 100

86 5.0 5.5 8.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#25

2-Butanone

Concen: 3.902 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.02 min

Lab File: VD060638.D

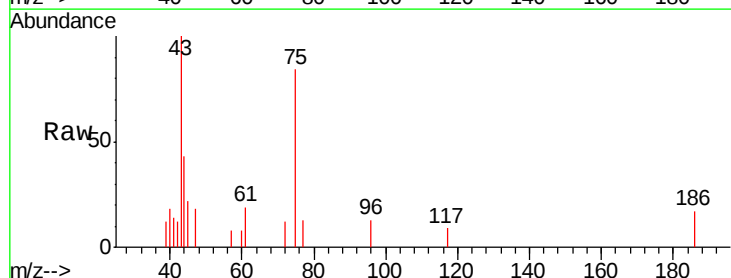
Acq: 19 Dec 2018 14:10

Tgt Ion: 43 Resp: 12930

Ion Ratio Lower Upper

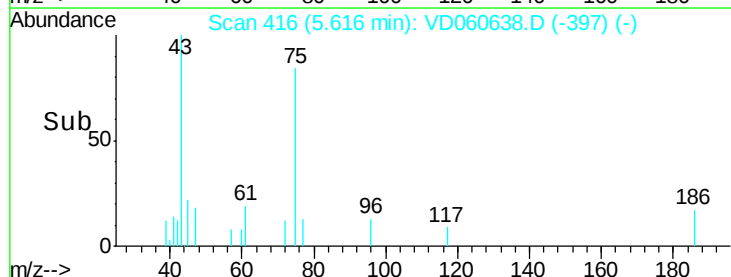
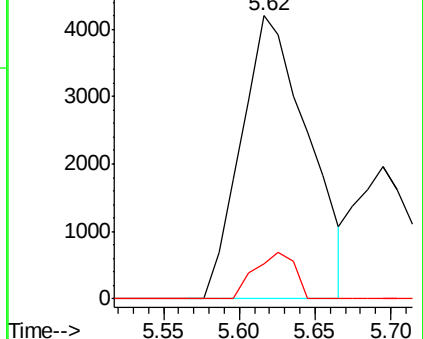
43 100

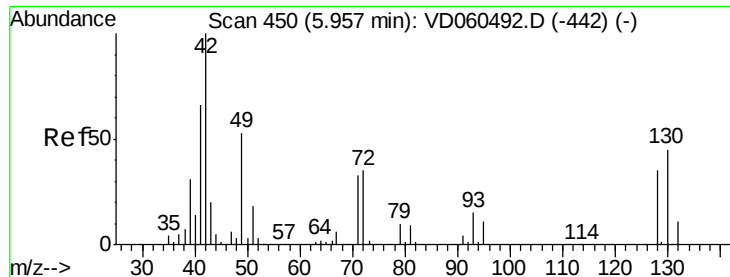
72 12.3 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 3.128 ug/l

RT: 5.95 min Scan# 450

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA\_D

ClientSampled :

SLUDGE

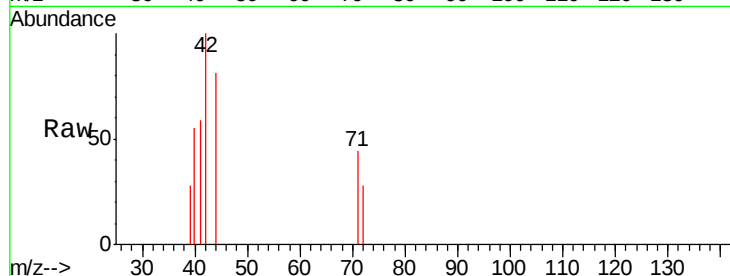
Tgt Ion: 42 Resp: 5868

Ion Ratio Lower Upper

42 100

72 25.2 28.0 42.0#

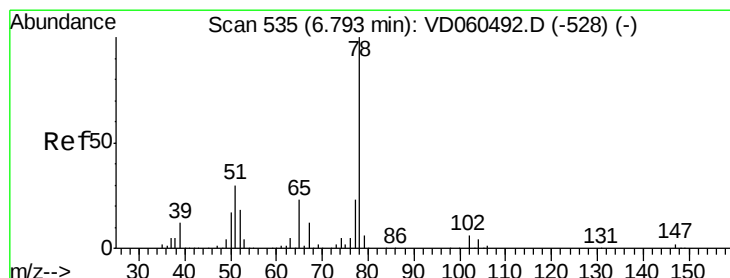
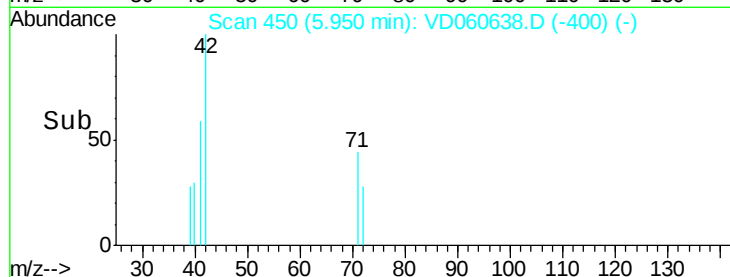
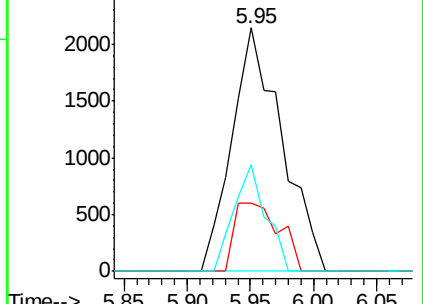
71 28.2 27.2 40.8



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060638.D

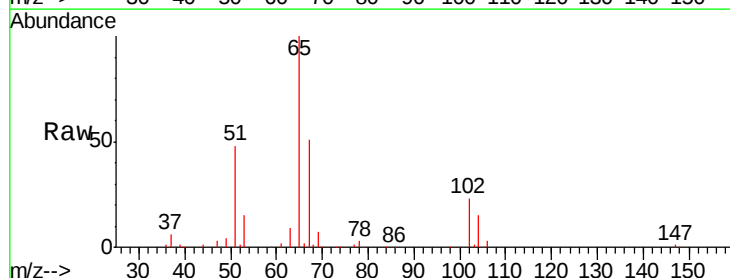
Acq: 19 Dec 2018 14:10

Tgt Ion: 65 Resp: 463997

Ion Ratio Lower Upper

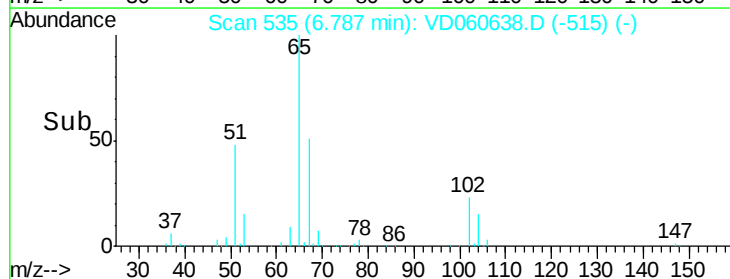
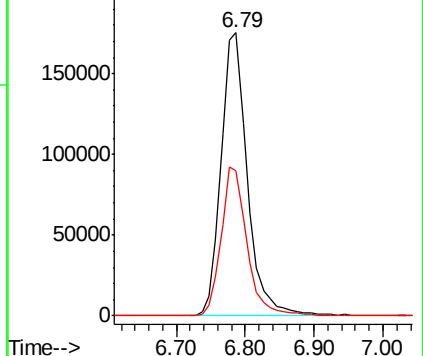
65 100

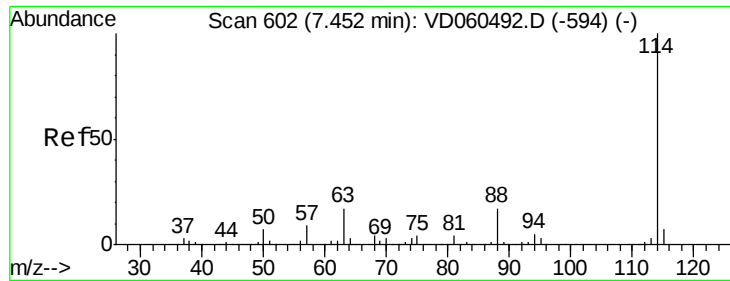
67 51.1 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA\_D

ClientSampleId :

SLUDGE

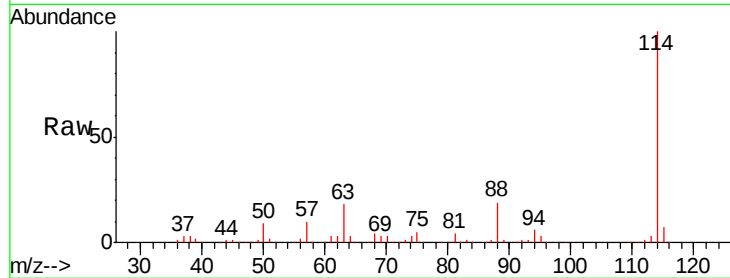
Tgt Ion:114 Resp: 1940422

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.2

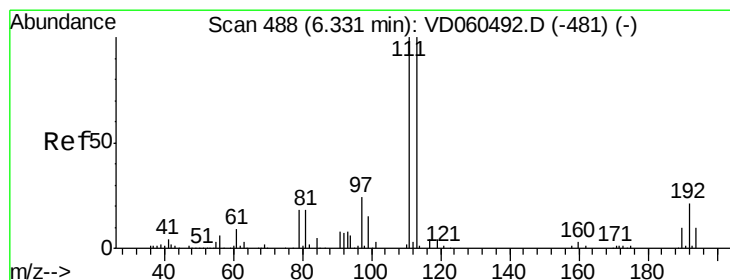
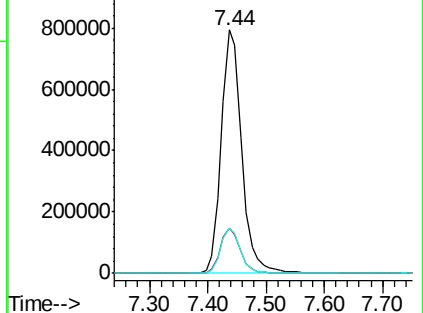
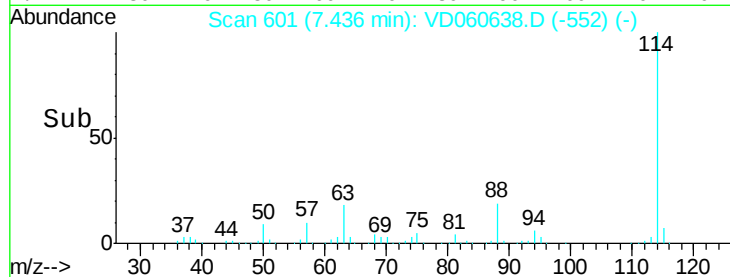
88 18.8 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 488

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

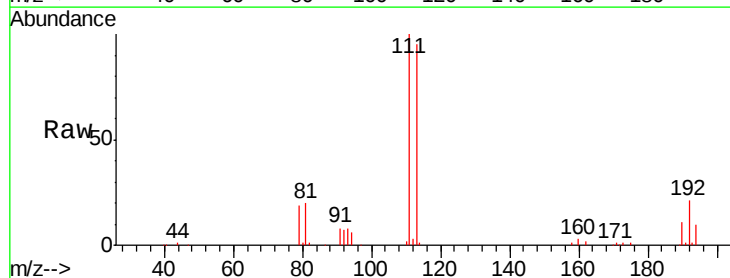
Tgt Ion:113 Resp: 654139

Ion Ratio Lower Upper

113 100

111 104.9 80.2 120.4

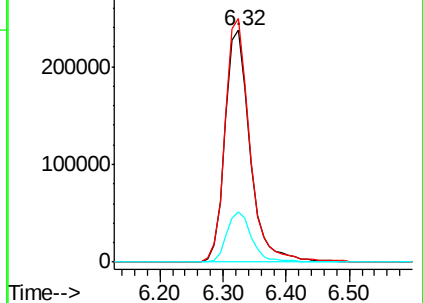
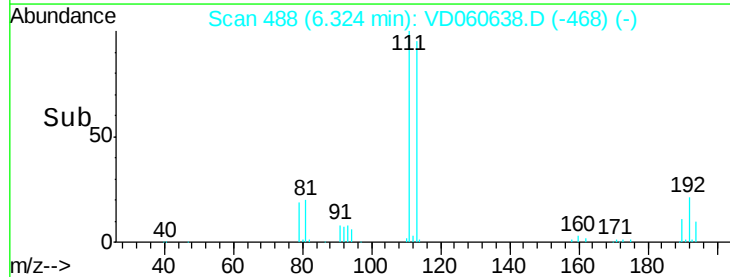
192 21.9 16.6 24.8

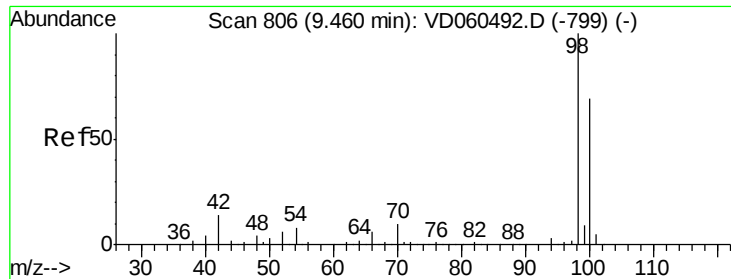


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.45 min Scan# 806

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA\_D

ClientSampleId :

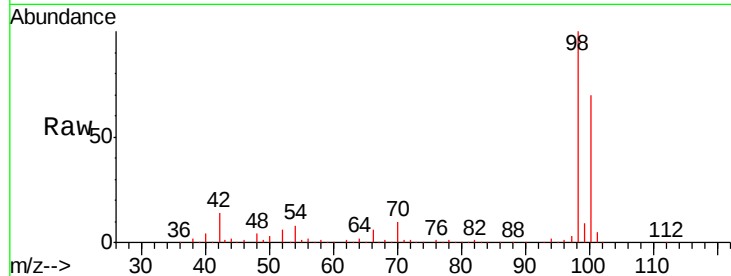
SLUDGE

Tgt Ion: 98 Resp: 1737950

Ion Ratio Lower Upper

98 100

100 69.5 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

800000

600000

400000

200000

0

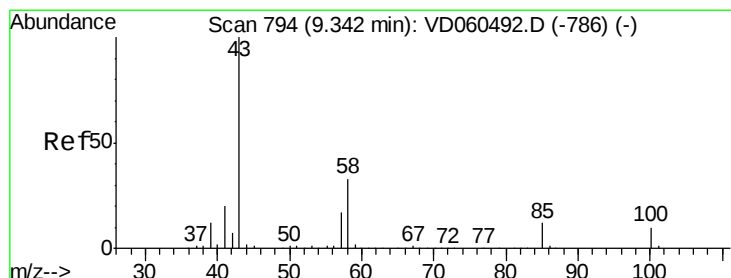
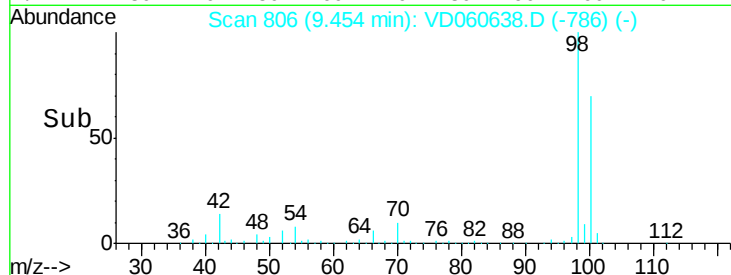
9.45

9.40

9.50

9.60

Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.082 ug/l

RT: 9.34 min Scan# 794

Delta R.T. -0.01 min

Lab File: VD060638.D

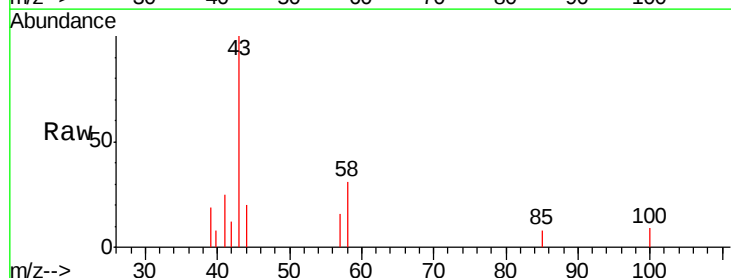
Acq: 19 Dec 2018 14:10

Tgt Ion: 43 Resp: 19470

Ion Ratio Lower Upper

43 100

58 31.3 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

8000

6000

4000

2000

0

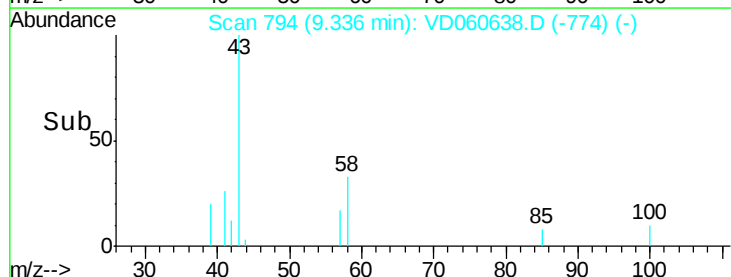
9.34

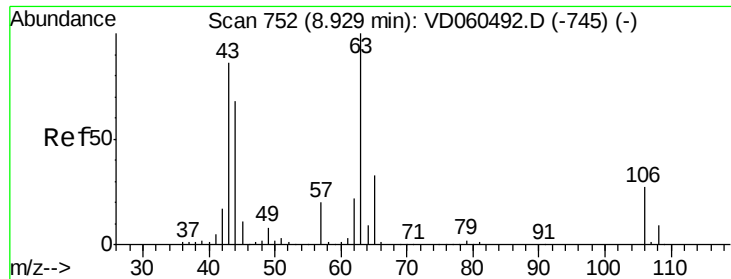
9.30

9.35

9.40

Time-->

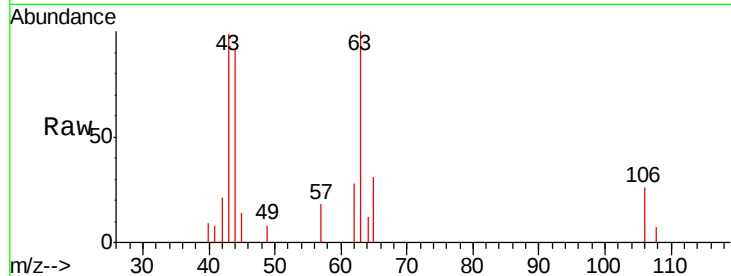




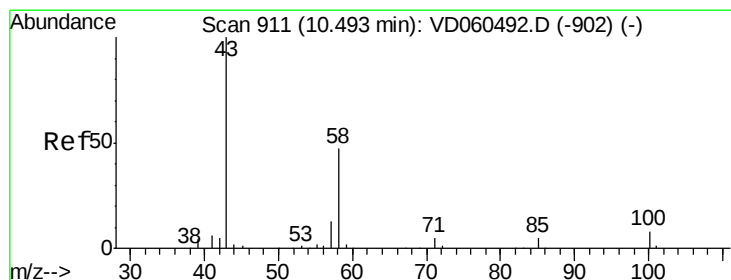
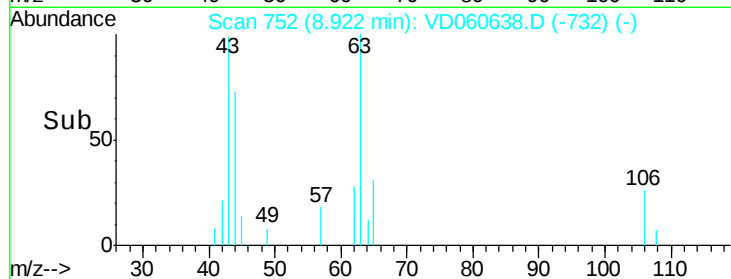
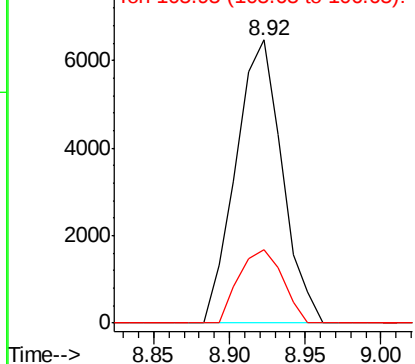
#58  
2-Chloroethyl Vinyl ether  
Concen: 3.022 ug/l  
RT: 8.92 min Scan# 752  
Delta R.T. -0.01 min  
Lab File: VD060638.D  
Acq: 19 Dec 2018 14:10

Instrument :  
MSVOA\_D  
ClientSampleId :  
SLUDGE

Tgt Ion: 63 Resp: 13808  
Ion Ratio Lower Upper  
63 100  
106 25.9 21.6 32.4

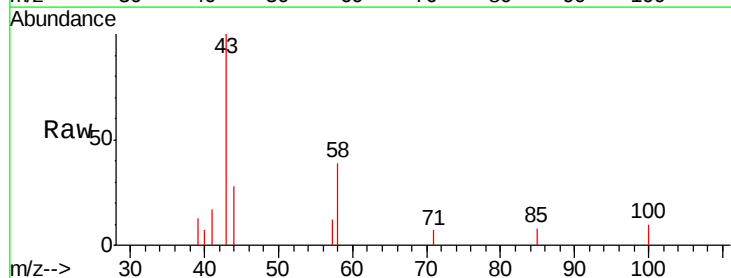


Abundance Ion 62.95 (62.65 to 63.65): VDC  
Ion 105.95 (105.65 to 106.65): VDC

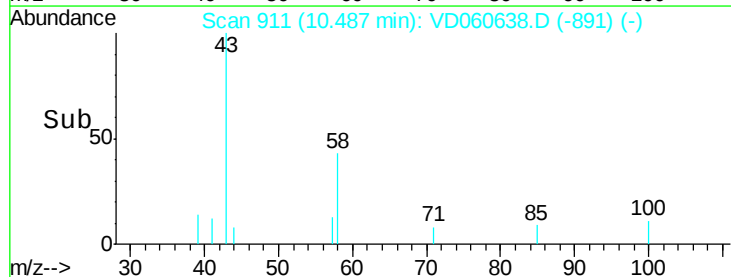
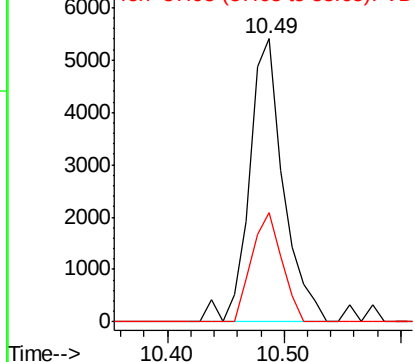


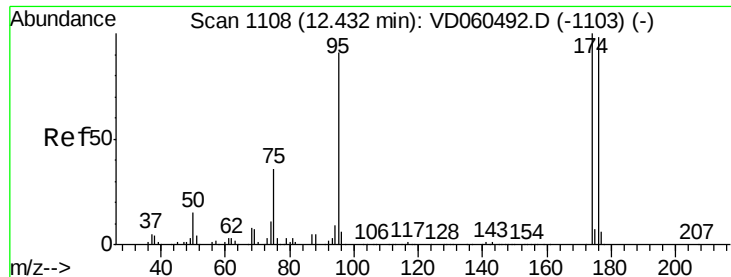
#59  
2-Hexanone  
Concen: 2.487 ug/l  
RT: 10.49 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: VD060638.D  
Acq: 19 Dec 2018 14:10

Tgt Ion: 43 Resp: 10978  
Ion Ratio Lower Upper  
43 100  
58 38.5 23.4 70.2



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA\_D

ClientSampleId :

SLUDGE

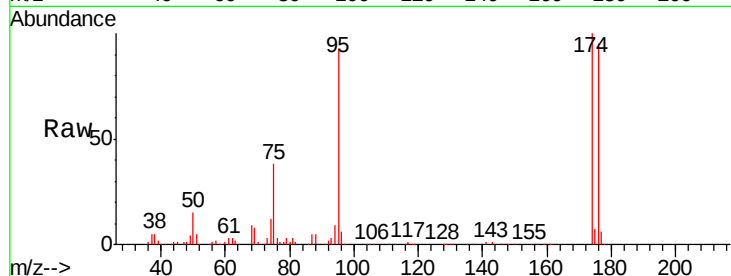
Tgt Ion: 95 Resp: 498383

Ion Ratio Lower Upper

95 100

174 107.6 0.0 219.4

176 102.6 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

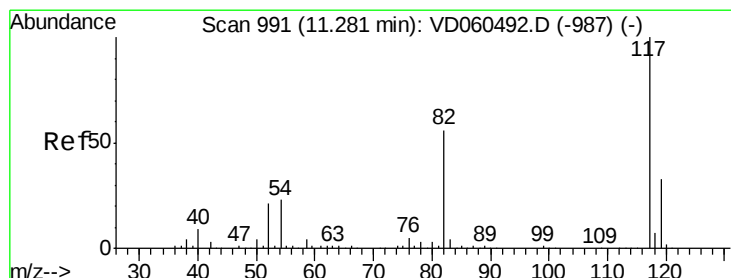
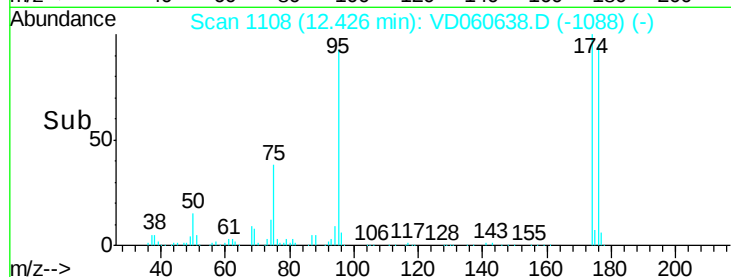
Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

Time-->

12.43

12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

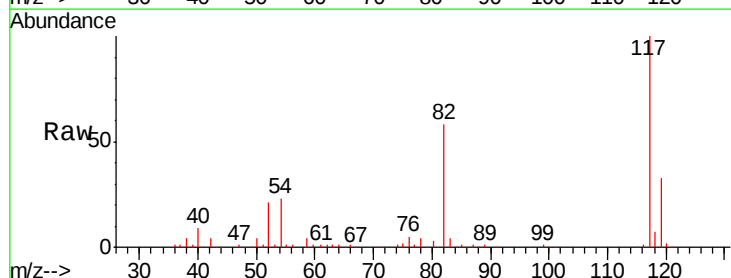
Tgt Ion: 117 Resp: 1319544

Ion Ratio Lower Upper

117 100

82 57.7 45.2 67.8

119 33.0 26.1 39.1



Abundance Ion 116.95 (116.65 to 117.65): V

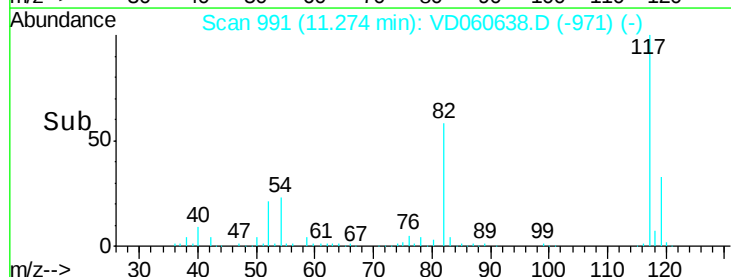
Ion 82.05 (81.75 to 82.75): V

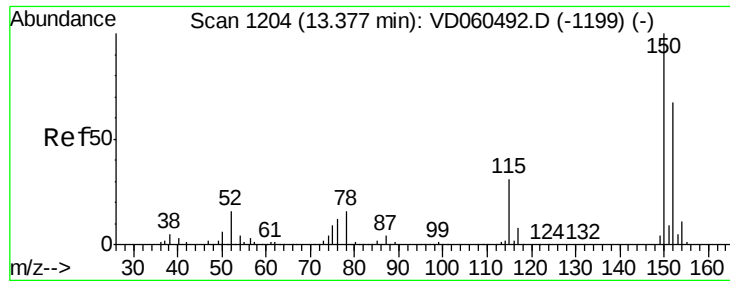
Ion 118.95 (118.65 to 119.65): V

Time-->

11.27

11.40





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA\_D

ClientSampleId :

SLUDGE

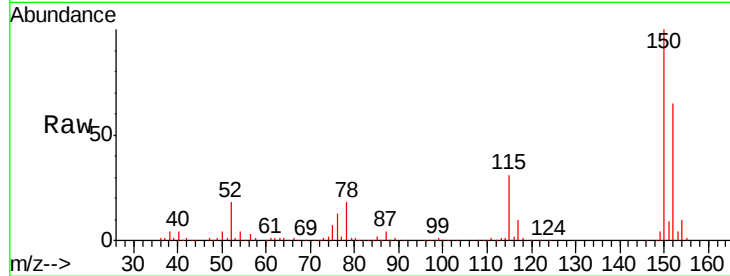
Tgt Ion:152 Resp: 471605

Ion Ratio Lower Upper

152 100

115 46.9 24.6 74.0

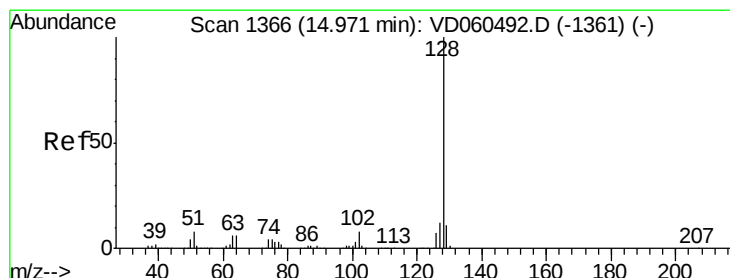
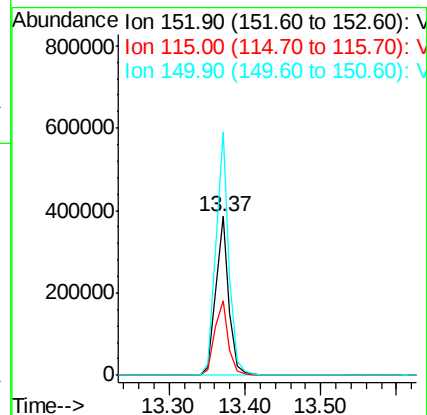
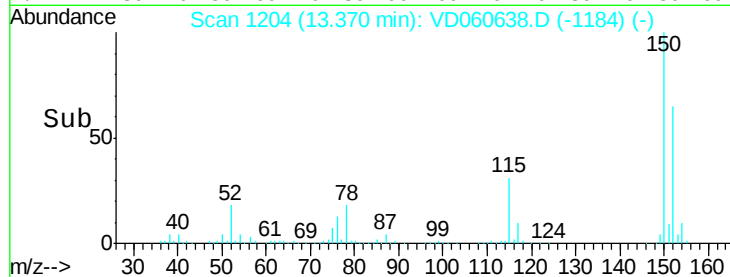
150 153.2 0.0 309.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#95

Naphthalene

Concen: 1.077 ug/l

RT: 14.96 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

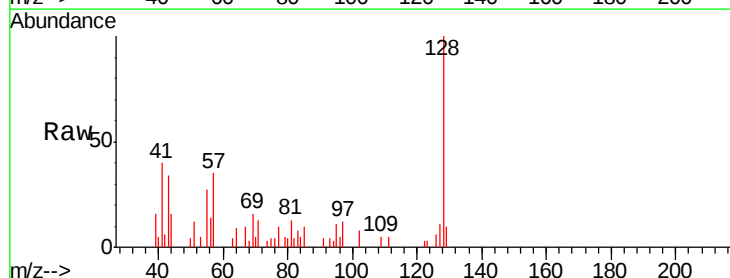
Tgt Ion:128 Resp: 13006

Ion Ratio Lower Upper

128 100

127 11.1 9.8 14.8

129 10.1 8.6 13.0



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

