

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\  
 Data File : VD060188.D  
 Acq On : 24 Oct 2018 18:11  
 Operator : JC/SY  
 Sample : J5198-27  
 Misc : 5.86g/5ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-102318-D

Quant Time: Oct 25 03:36:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.40  | 168  | 1690860  | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 2362297  | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1823783  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 779930   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.78  | 65   | 665323   | 51.91 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 103.82% |          |
| 35) Dibromofluoromethane    | 6.31  | 113  | 835299   | 46.56 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 93.12%  |          |
| 50) Toluene-d8              | 9.44  | 98   | 2233070  | 43.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.30%  |          |
| 62) 4-Bromofluorobenzene    | 12.43 | 95   | 768768   | 40.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.28%  |          |

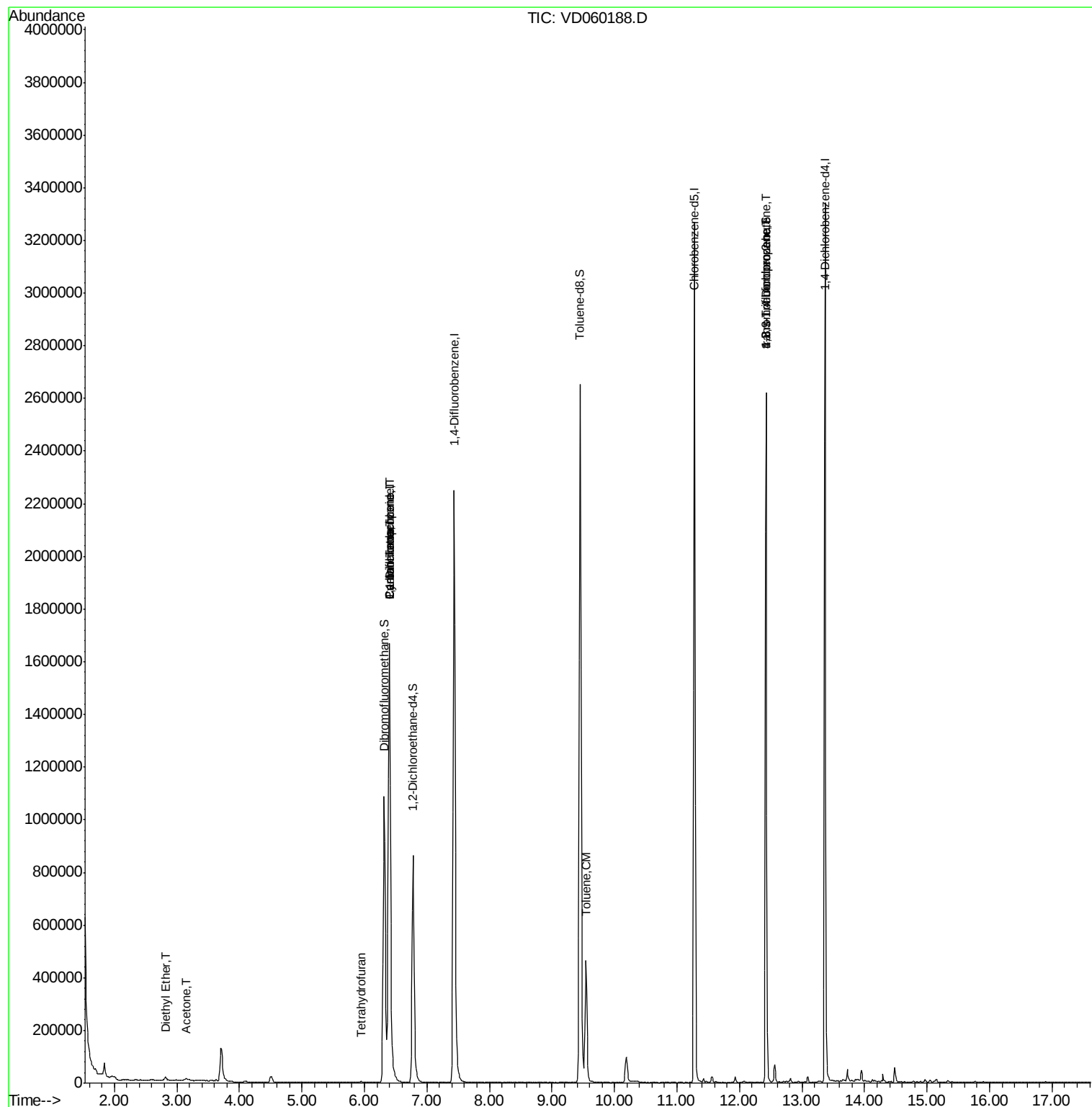
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether               | 2.82  | 74   | 3855     | 1.334  | ug/l   | 76     |
| 16) Acetone                    | 3.15  | 43   | 20366    | 8.757  | ug/l   | 98     |
| 29) Tetrahydrofuran            | 5.95  | 42   | 3677     | 1.090  | ug/l # | 52     |
| 31) Cyclohexane                | 6.39  | 56   | 31479    | 1.134  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.39  | 75   | 116278   | 5.151  | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 6.40  | 117  | 132377   | 6.461  | ug/l # | 15     |
| 52) Toluene                    | 9.54  | 92   | 239358   | 6.293  | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 12.43 | 75   | 280307   | 24.956 | ug/l # | 45     |
| 81) trans-1,4-Dichloro-2-buten | 12.43 | 75   | 307387   | 97.397 | ug/l # | 13     |

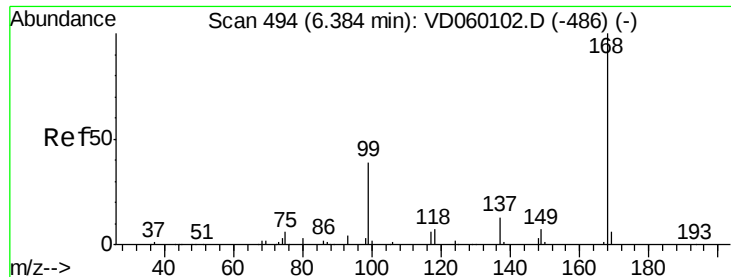
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 06:56:35 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: VD060188.D

Acq: 24 Oct 2018 18:11

Instrument :

MSVOA\_D

ClientSampleId :

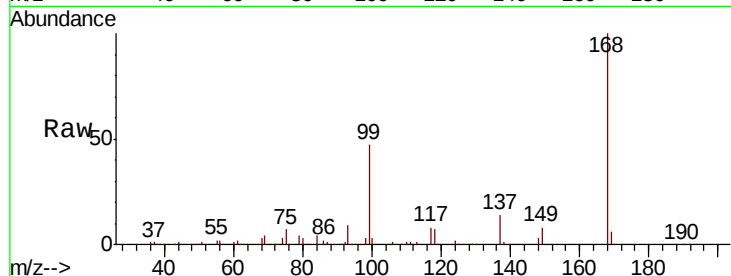
CL-01-102318-D

Tot Ion:168 Resp: 1690860

Ion Ratio Lower Upper

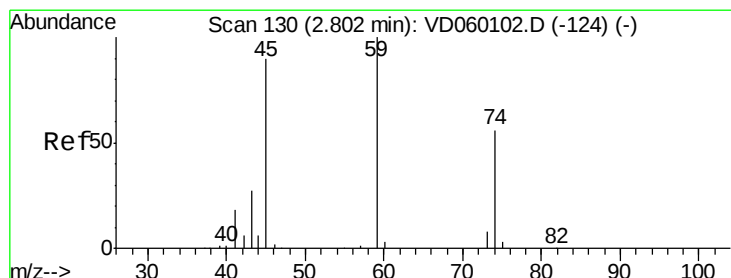
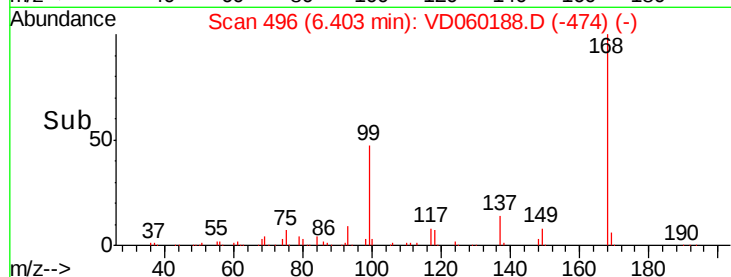
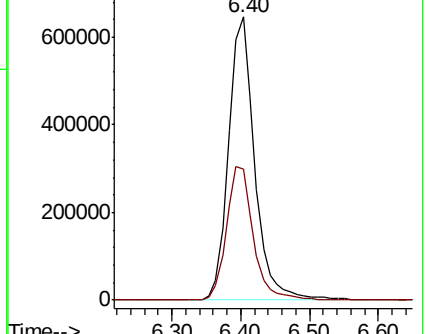
168 100

99 46.5 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.334 ug/l

RT: 2.82 min Scan# 132

Delta R.T. 0.02 min

Lab File: VD060188.D

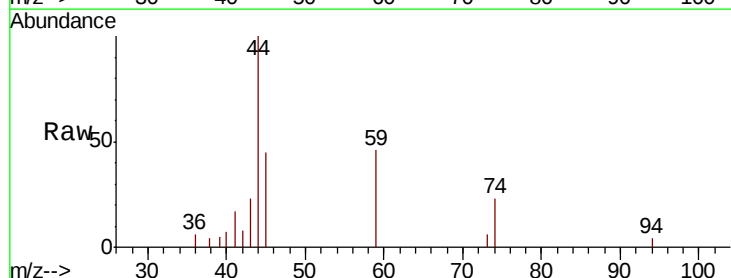
Acq: 24 Oct 2018 18:11

Tgt Ion: 74 Resp: 3855

Ion Ratio Lower Upper

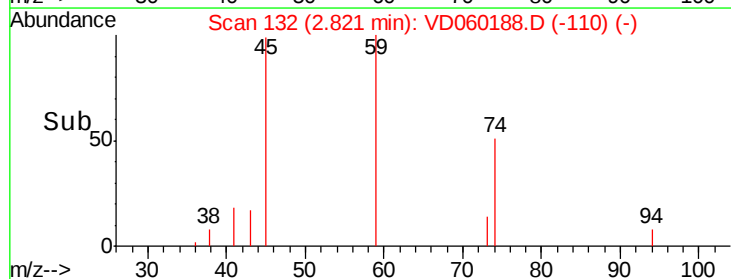
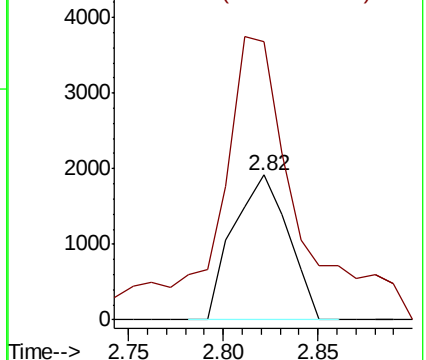
74 100

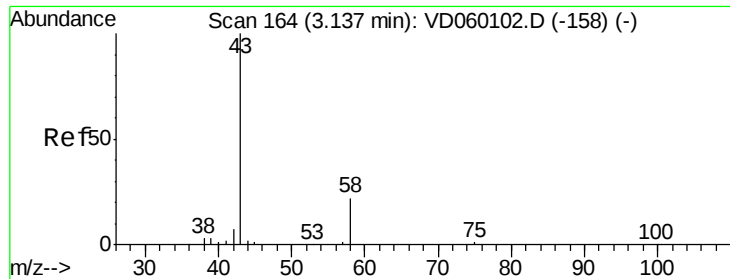
45 192.2 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 8.757 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060188.D

Acq: 24 Oct 2018 18:11

Instrument :

MSVOA\_D

ClientSampleId :

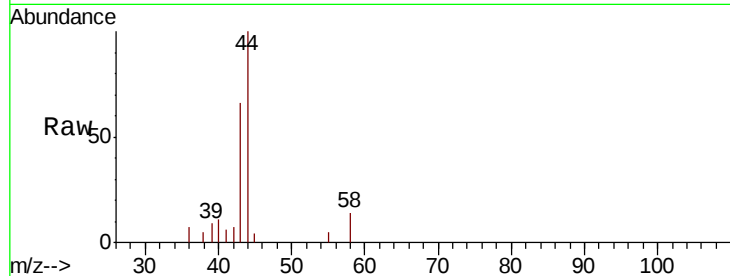
CL-01-102318-D

Tot Ion: 43 Resp: 20366

Ion Ratio Lower Upper

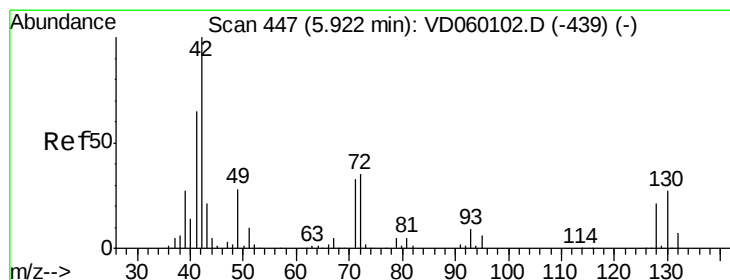
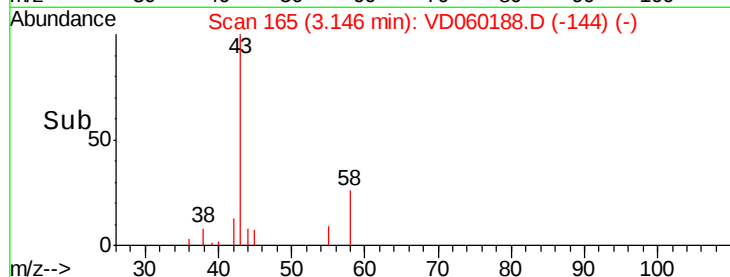
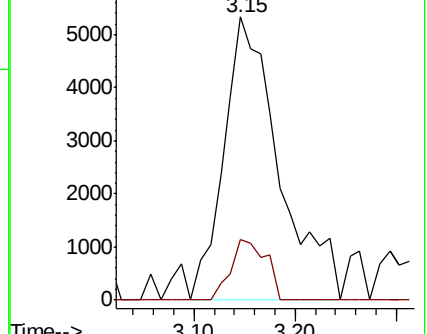
43 100

58 21.4 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#29

Tetrahydrofuran

Concen: 1.090 ug/l

RT: 5.95 min Scan# 450

Delta R.T. 0.03 min

Lab File: VD060188.D

Acq: 24 Oct 2018 18:11

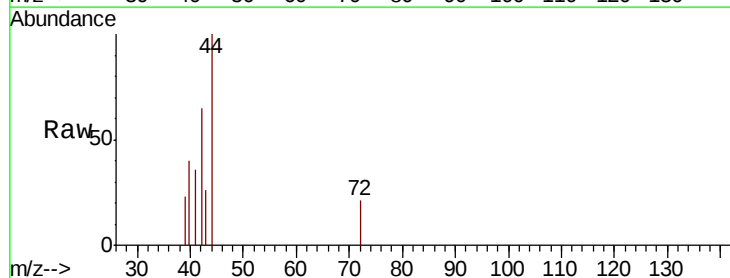
Tgt Ion: 42 Resp: 3677

Ion Ratio Lower Upper

42 100

72 7.0 26.9 40.3#

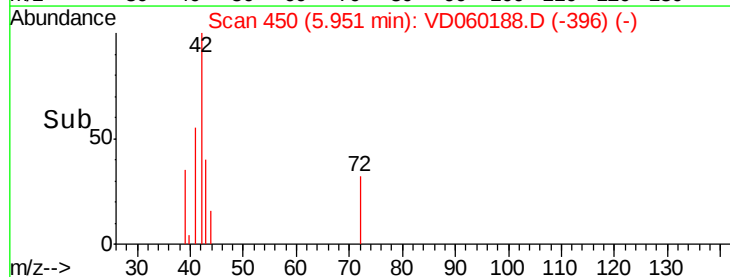
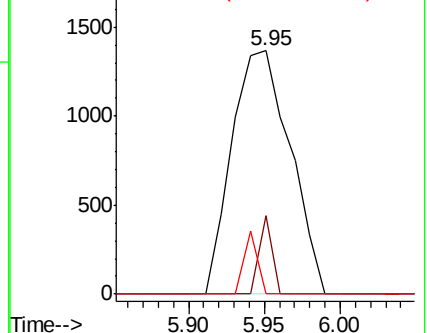
71 5.7 26.7 40.1#

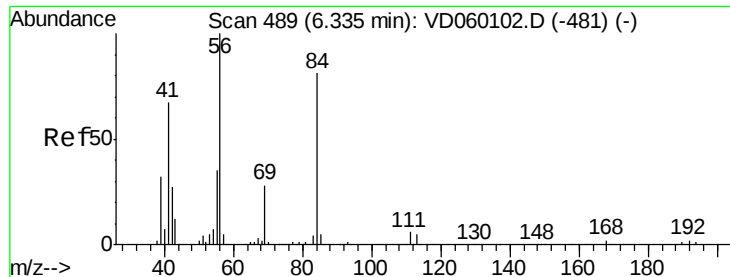


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

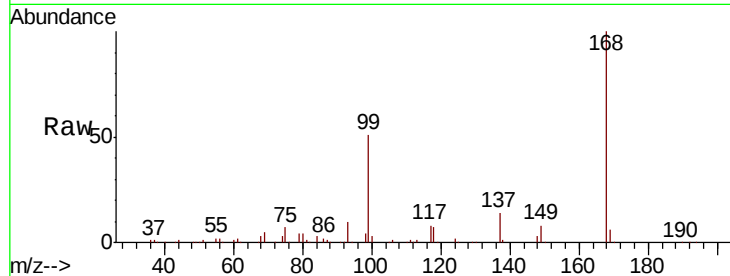




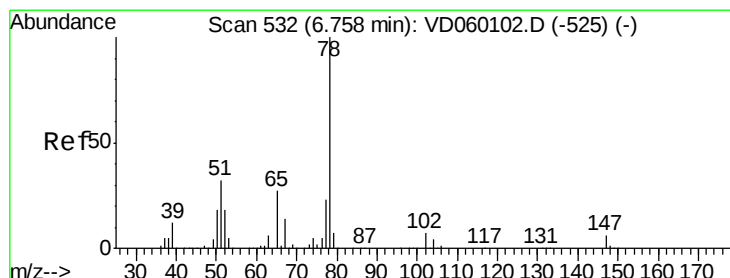
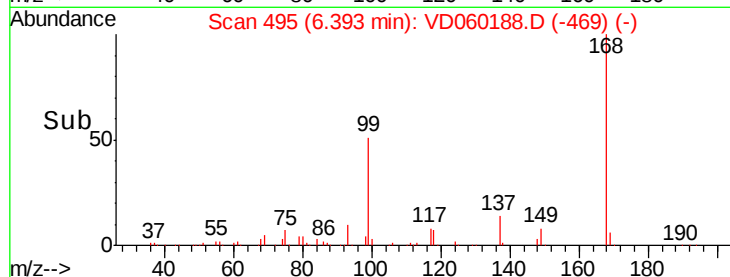
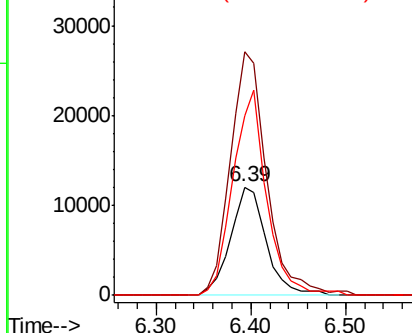
#31  
Cyclohexane  
Concen: 1.134 ug/l  
RT: 6.39 min Scan# 495  
Delta R.T. 0.06 min  
Lab File: VD060188.D  
Acq: 24 Oct 2018 18:11

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-102318-D

Tot Ion: 56 Resp: 31479  
Ion Ratio Lower Upper  
56 100  
69 224.5 22.8 34.2#  
84 165.7 64.9 97.3#

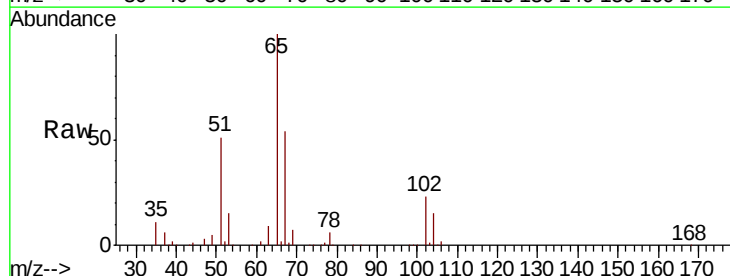


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

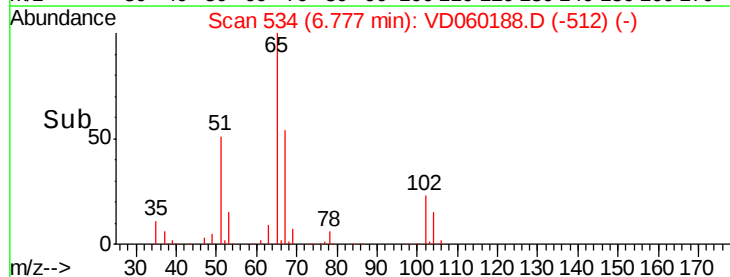
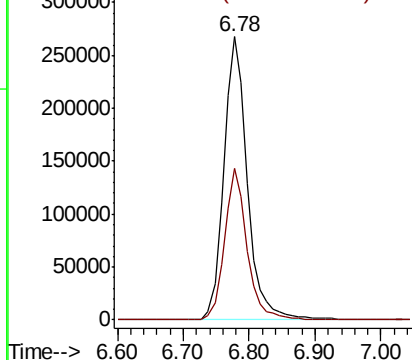


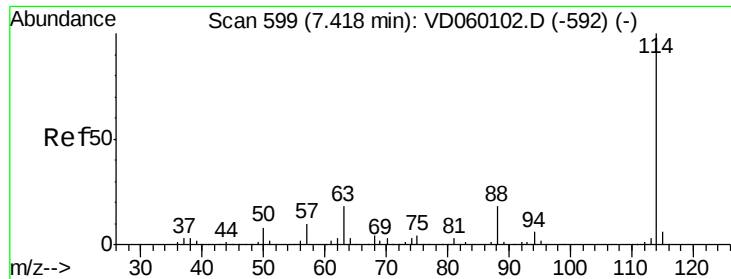
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.78 min Scan# 534  
Delta R.T. 0.02 min  
Lab File: VD060188.D  
Acq: 24 Oct 2018 18:11

Tgt Ion: 65 Resp: 665323  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC



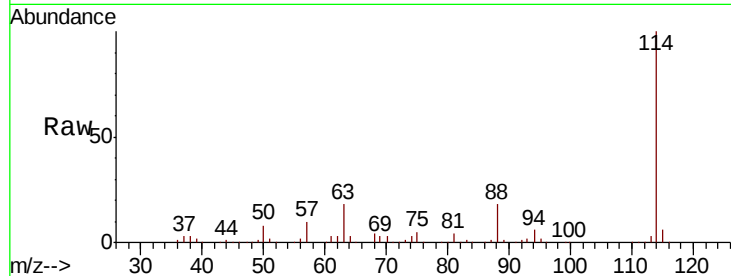


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.44 min Scan# 601  
 Delta R.T. 0.02 min  
 Lab File: VD060188.D  
 Acq: 24 Oct 2018 18:11

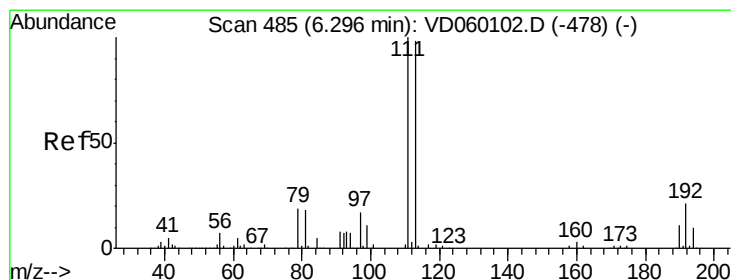
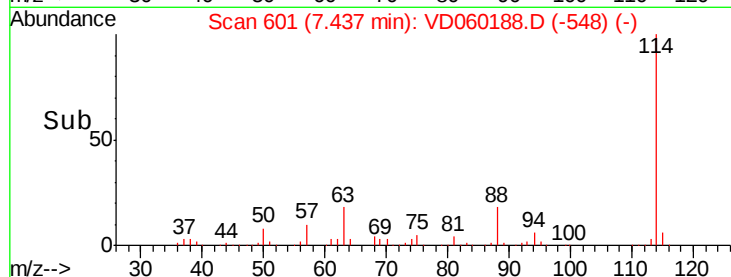
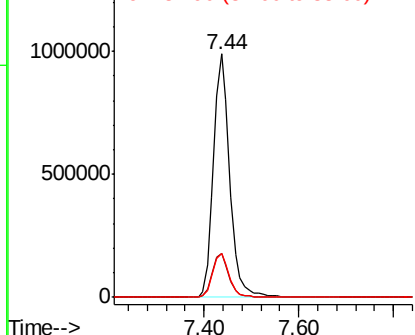
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-01-102318-D

Tot Ion:114 Resp: 2362297  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 17.9  | 0.0   | 36.0  |
| 88  | 18.3  | 0.0   | 36.2  |



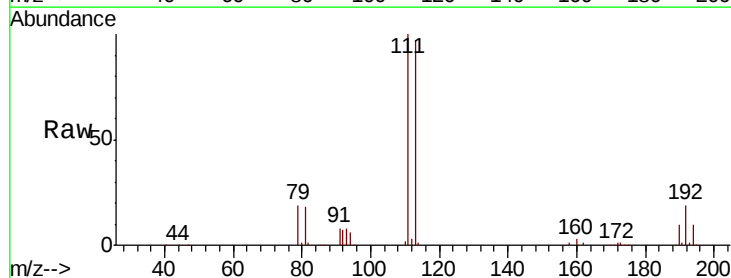
Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V



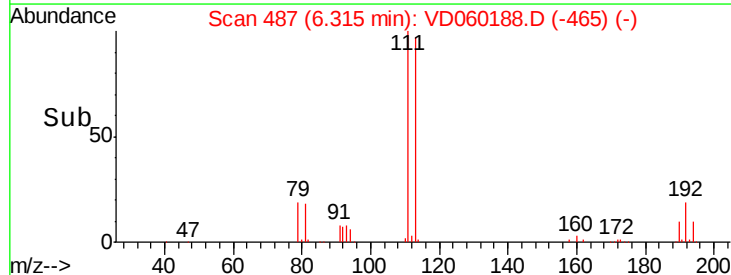
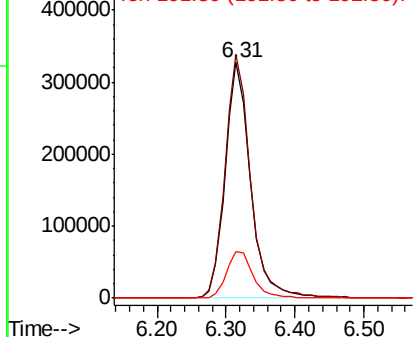
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.31 min Scan# 487  
 Delta R.T. 0.02 min  
 Lab File: VD060188.D  
 Acq: 24 Oct 2018 18:11

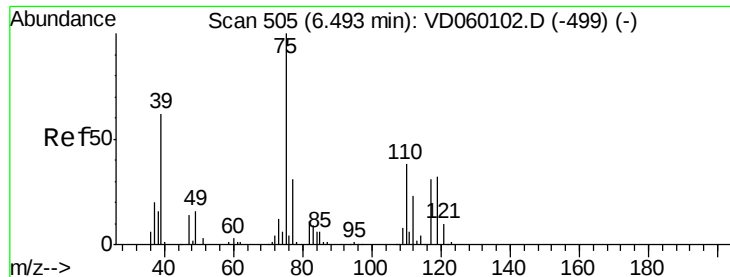
Tgt Ion:113 Resp: 835299  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 103.2 | 81.5  | 122.3 |
| 192 | 20.0  | 17.4  | 26.0  |



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





#36

1,1-Dichloropropene

Concen: 5.151 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.10 min

Lab File: VD060188.D

Acq: 24 Oct 2018 18:11

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-102318-D

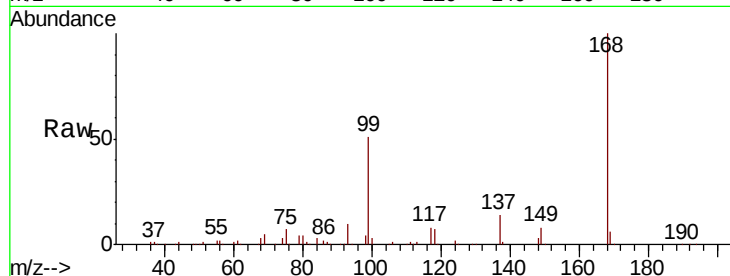
Tot Ion: 75 Resp: 116278

Ion Ratio Lower Upper

75 100

110 6.1 19.0 57.0#

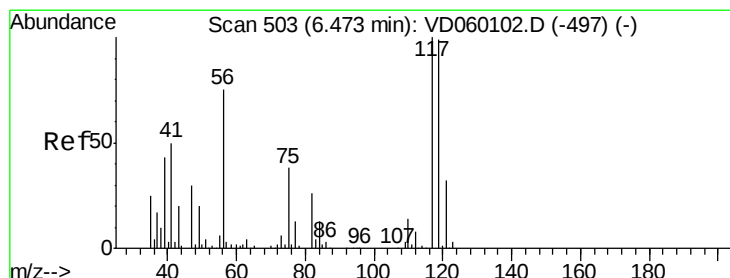
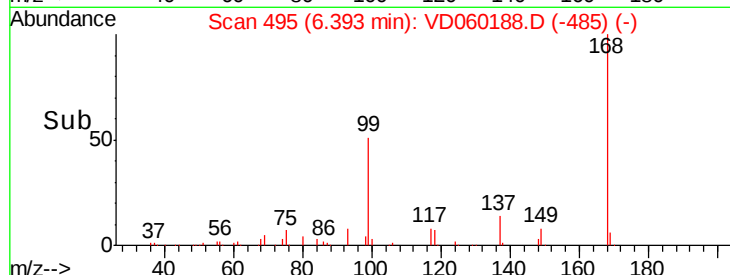
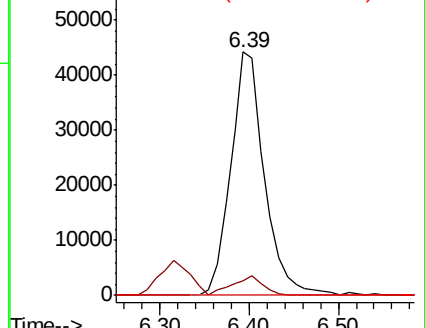
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.461 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.07 min

Lab File: VD060188.D

Acq: 24 Oct 2018 18:11

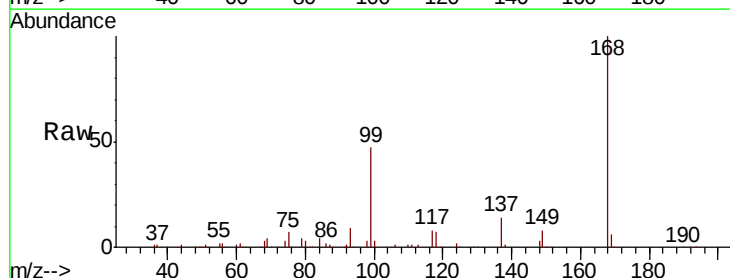
Tgt Ion: 117 Resp: 132377

Ion Ratio Lower Upper

117 100

119 4.1 77.8 116.6#

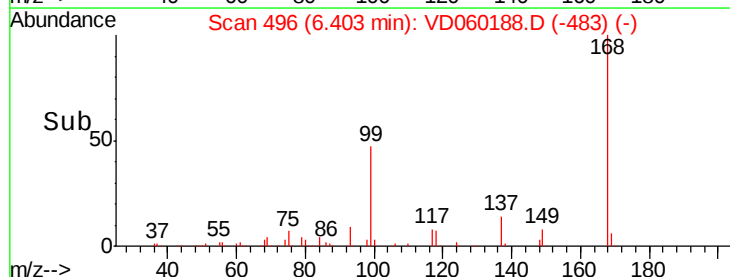
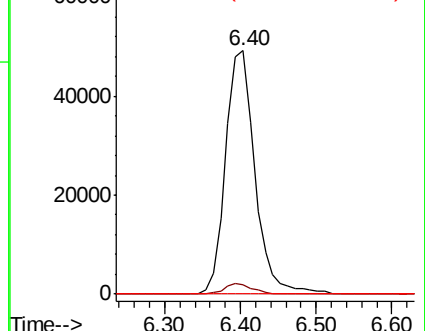
121 0.0 24.8 37.2#

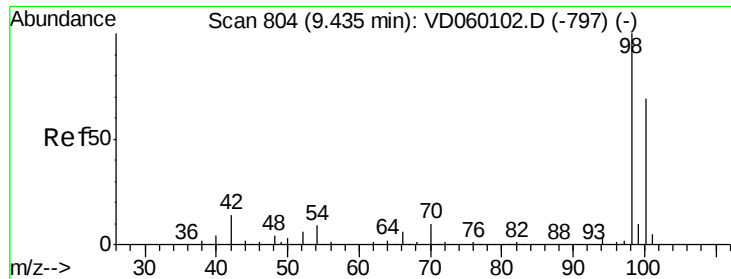


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

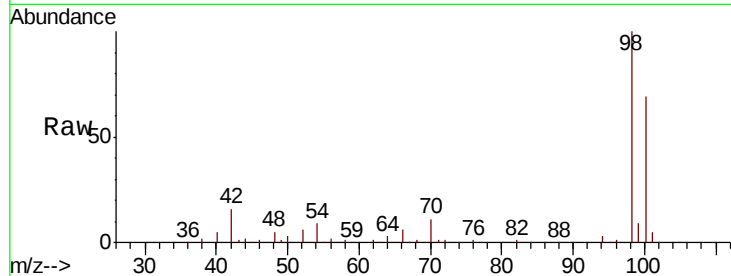




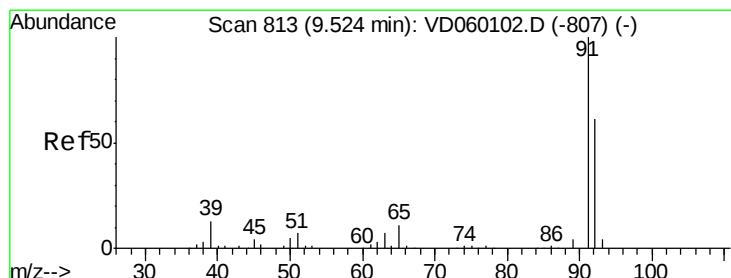
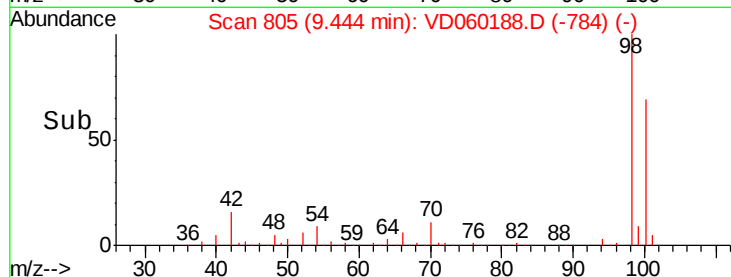
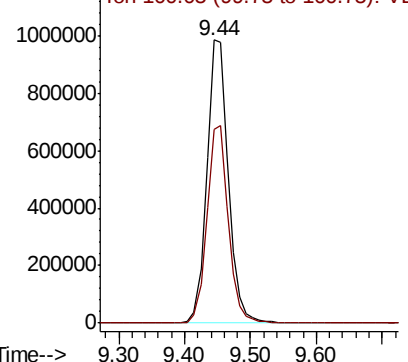
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.44 min Scan# 805  
Delta R.T. 0.01 min  
Lab File: VD060188.D  
Acq: 24 Oct 2018 18:11

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-102318-D

Tot Ion: 98 Resp: 2233070  
Ion Ratio Lower Upper  
98 100  
100 68.5 55.4 83.0

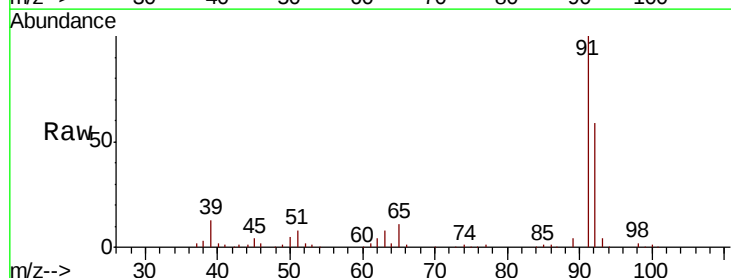


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

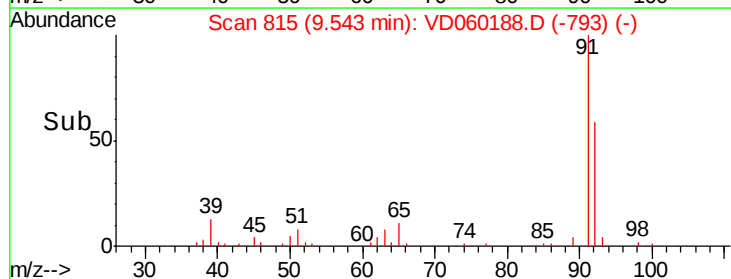
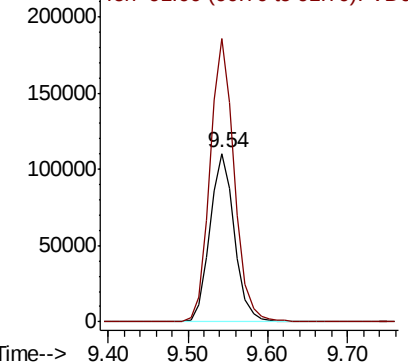


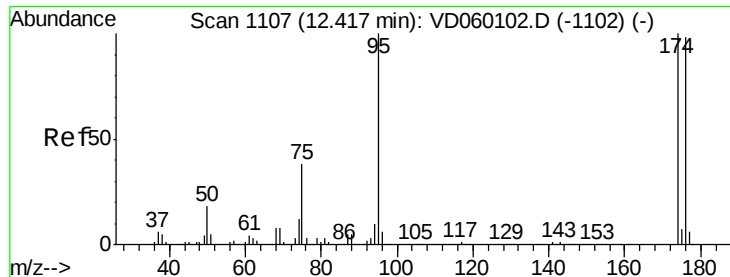
#52  
Toluene  
Concen: 6.293 ug/l  
RT: 9.54 min Scan# 815  
Delta R.T. 0.02 min  
Lab File: VD060188.D  
Acq: 24 Oct 2018 18:11

Tgt Ion: 92 Resp: 239358  
Ion Ratio Lower Upper  
92 100  
91 168.1 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC  
Ion 91.00 (90.70 to 91.70): VDC

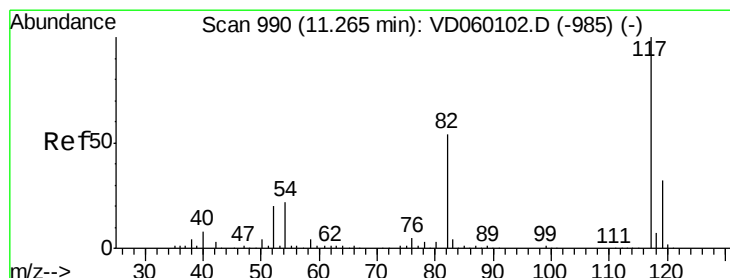
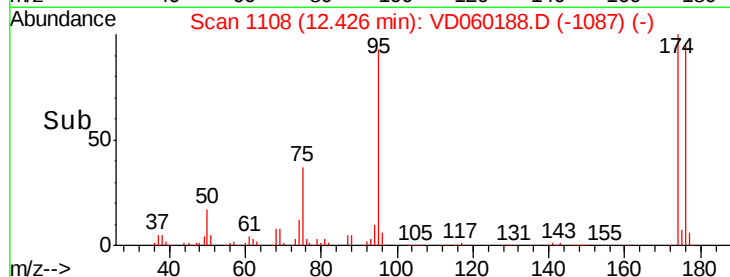
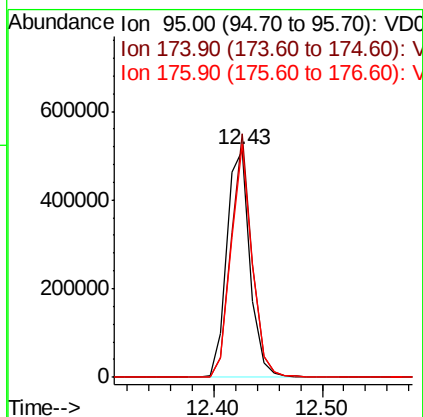
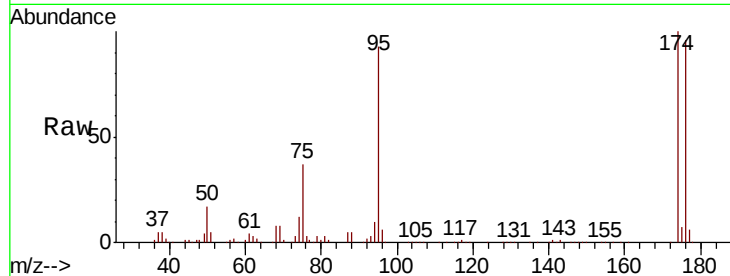




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. 0.01 min  
Lab File: VD060188.D  
Acq: 24 Oct 2018 18:11

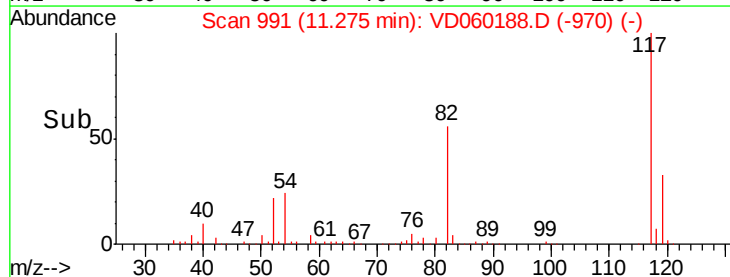
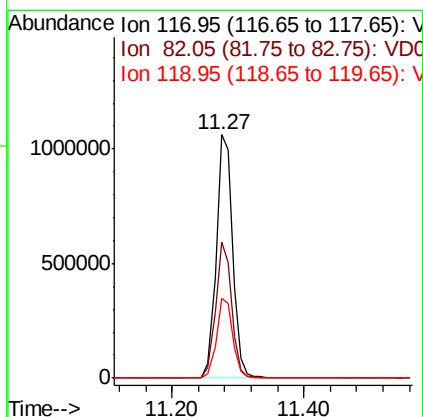
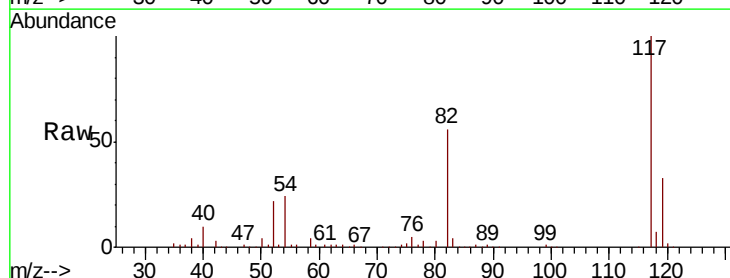
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-102318-D

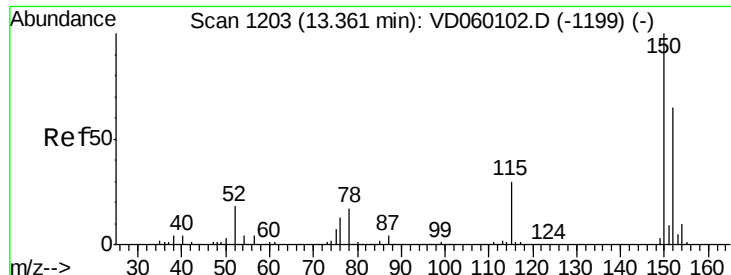
Tot Ion: 95 Resp: 768768  
Ion Ratio Lower Upper  
95 100  
174 107.2 0.0 200.2  
176 102.7 0.0 195.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 991  
Delta R.T. 0.01 min  
Lab File: VD060188.D  
Acq: 24 Oct 2018 18:11

Tgt Ion: 117 Resp: 1823783  
Ion Ratio Lower Upper  
117 100  
82 56.1 43.4 65.2  
119 32.6 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060188.D

Acq: 24 Oct 2018 18:11

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-102318-D

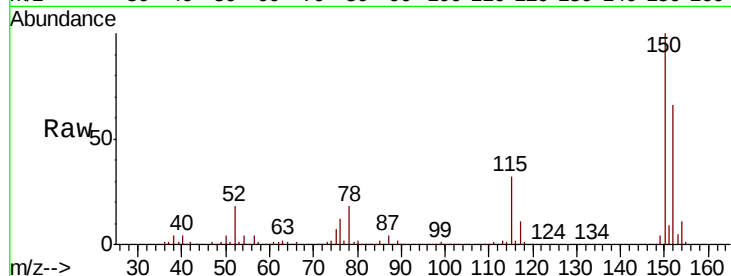
Tot Ion:152 Resp: 779930

Ion Ratio Lower Upper

152 100

115 49.4 27.1 81.2

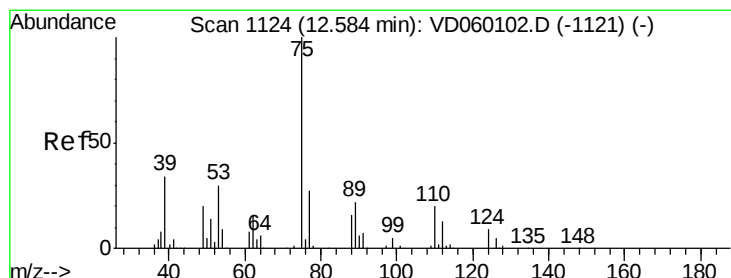
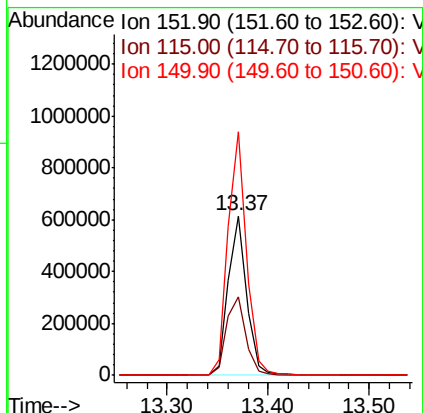
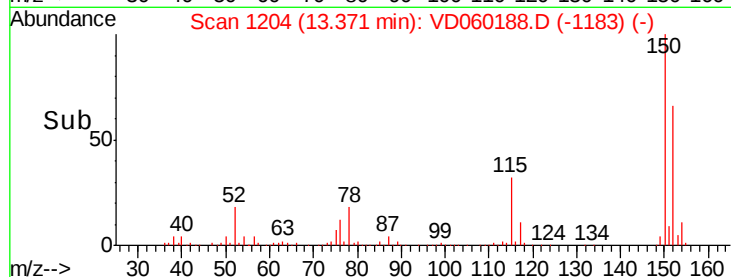
150 152.4 0.0 311.8



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



#76

1,2,3-Trichloropropane

Concen: 24.956 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060188.D

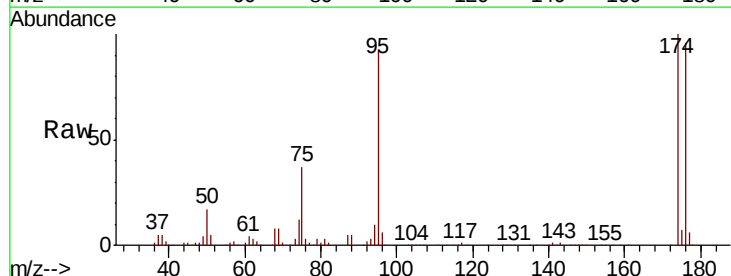
Acq: 24 Oct 2018 18:11

Tgt Ion: 75 Resp: 280307

Ion Ratio Lower Upper

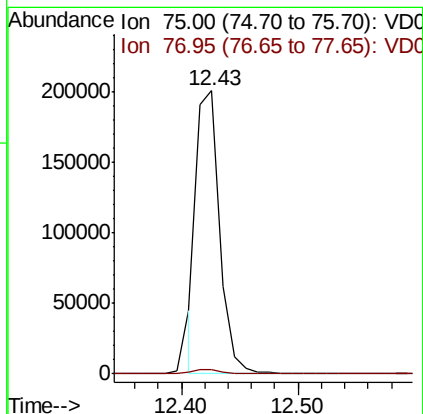
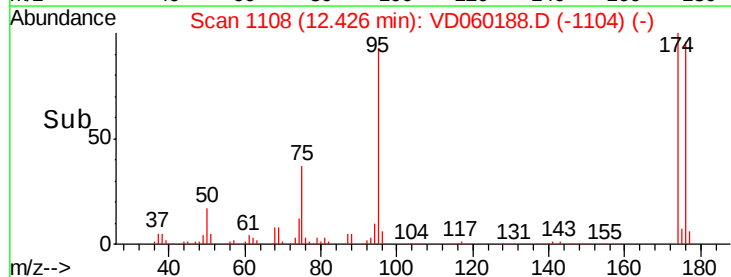
75 100

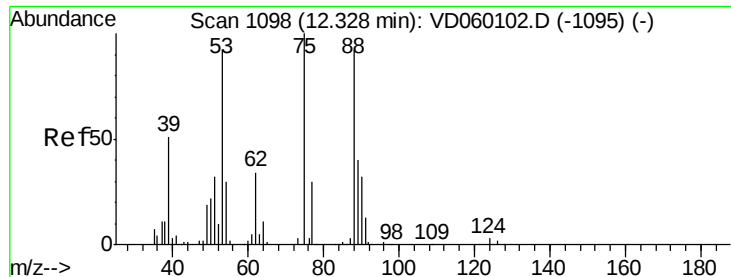
77 1.6 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 97.397 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.10 min

Lab File: VD060188.D

Acq: 24 Oct 2018 18:11

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-102318-D

Tot Ion: 75 Resp: 307387

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

89 0.0 32.0 48.0#

