

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\  
 Data File : VD060186.D  
 Acq On : 24 Oct 2018 17:15  
 Operator : JC/SY  
 Sample : J5198-23  
 Misc : 6.44g/5ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: Oct 25 03:36:07 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  | 1722860  | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 7.45  | 114  | 2409807  | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 11.28 | 117  | 1672011  | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 628561   | 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   | 701732   | 53.73 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 107.46% |          |
| 35) Dibromofluoromethane    | 6.32  | 113  | 881804   | 48.19 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 96.38%  |          |
| 50) Toluene-d8              | 9.45  | 98   | 2063677  | 39.55 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 79.10%  |          |
| 62) 4-Bromofluorobenzene    | 12.43 | 95   | 715379   | 36.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 73.22%  |          |

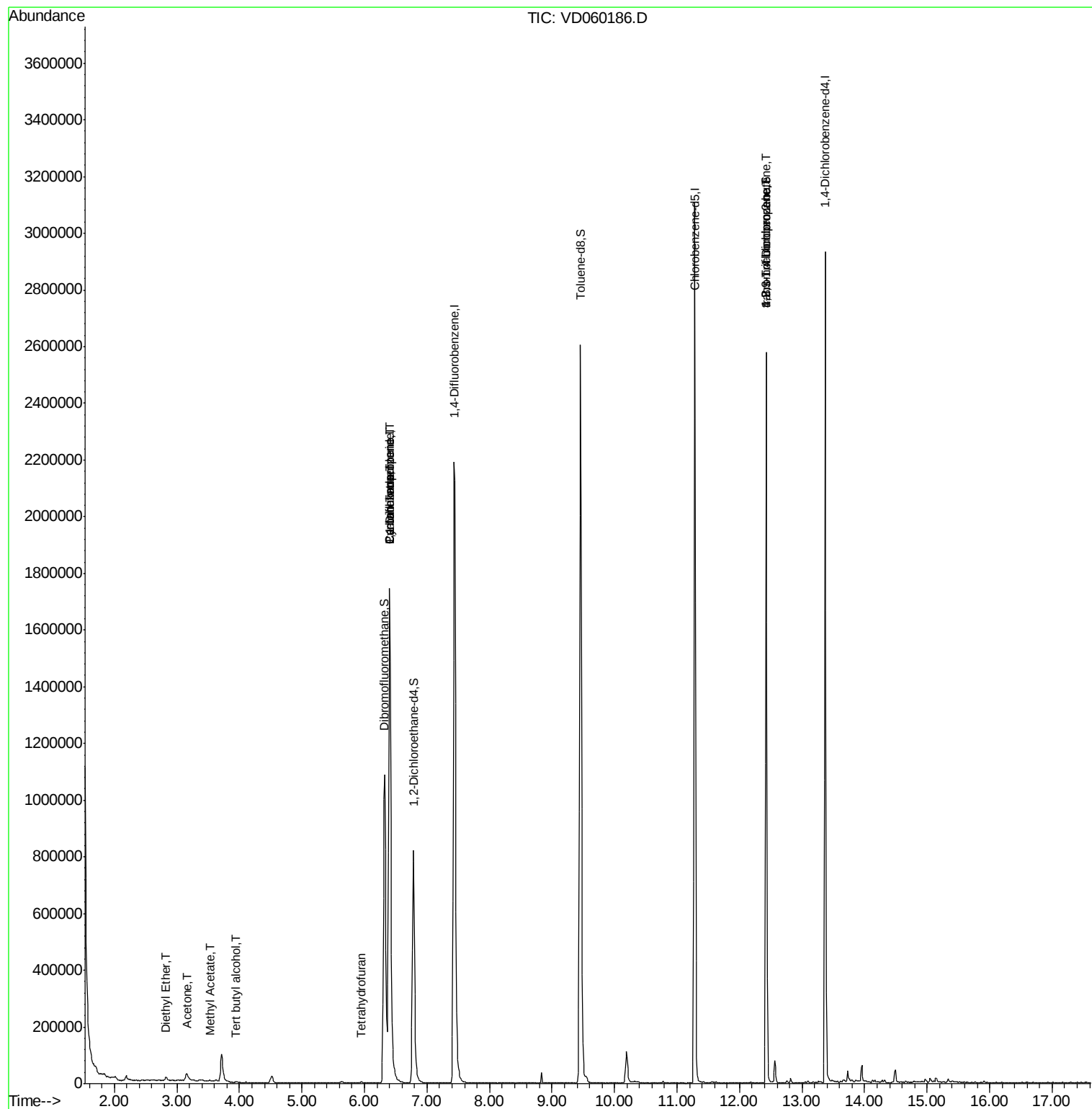
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 2.83  | 74   | 3263     | 1.108     | ug/l   | 68     |
| 11) Tert butyl alcohol         | 3.95  | 59   | 1765     | 1.884     | ug/l # | 74     |
| 16) Acetone                    | 3.16  | 43   | 59240    | 24.999    | ug/l   | 95     |
| 18) Methyl Acetate             | 3.54  | 43   | 6357     | 1.248     | ug/l # | 63     |
| 20) Methylene Chloride         | 3.72  | 84   | 58184    | Below Cal | #      | 91     |
| 29) Tetrahydrofuran            | 5.95  | 42   | 3547     | 1.031     | ug/l # | 70     |
| 31) Cyclohexane                | 6.40  | 56   | 33285    | 1.176     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.40  | 75   | 118941   | 5.165     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 6.40  | 117  | 132395   | 6.335     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.43 | 75   | 280164   | 30.950    | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 12.43 | 75   | 288411   | 113.391   | ug/l # | 13     |

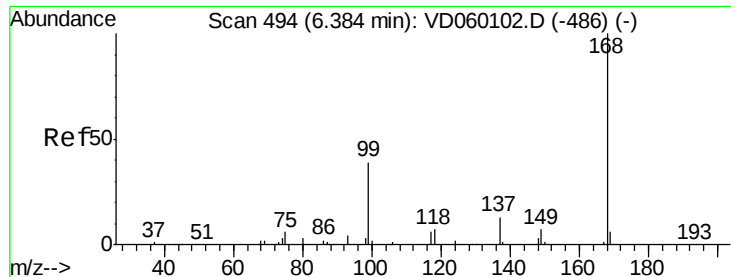
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
CL-01-102318-B

Quant Time: Oct 25 03:36:07 2018  
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: VD060186.D

Acq: 24 Oct 2018 17:15

Instrument :

MSVOA\_D

ClientSampleId :

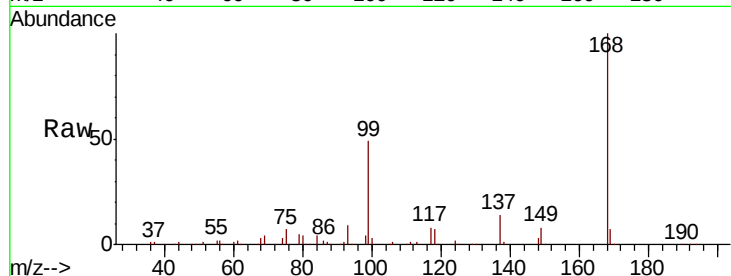
CL-01-102318-B

Tot Ion:168 Resp: 1722860

Ion Ratio Lower Upper

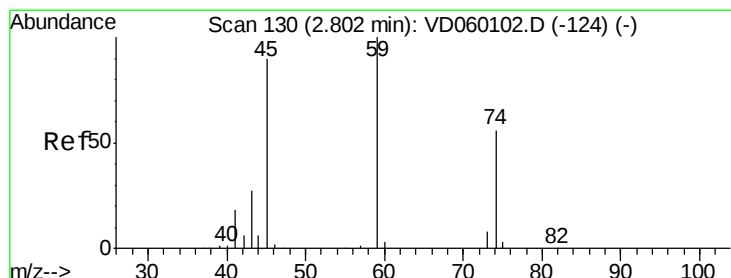
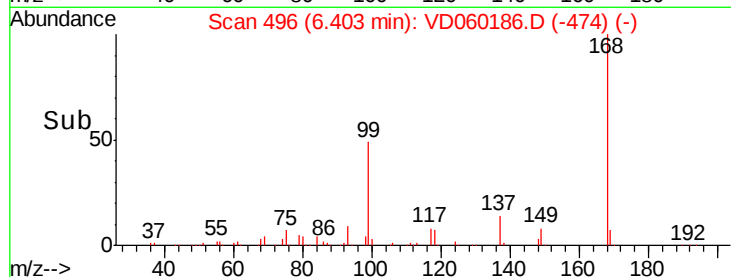
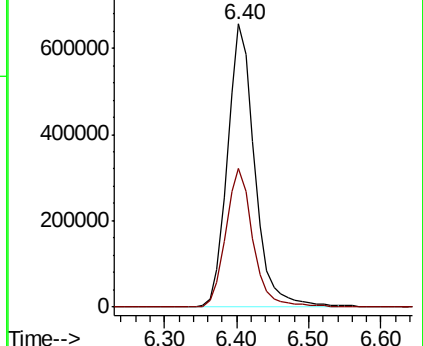
168 100

99 48.9 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: 1.108 ug/l

RT: 2.83 min Scan# 133

Delta R.T. 0.03 min

Lab File: VD060186.D

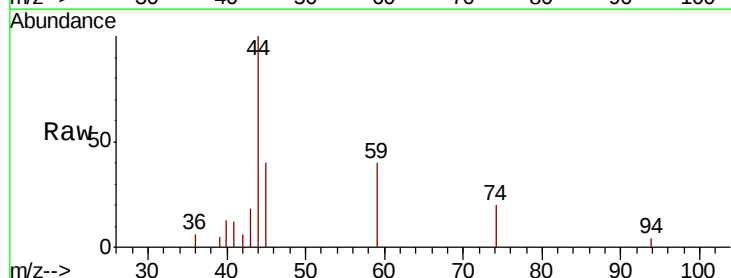
Acq: 24 Oct 2018 17:15

Tgt Ion: 74 Resp: 3263

Ion Ratio Lower Upper

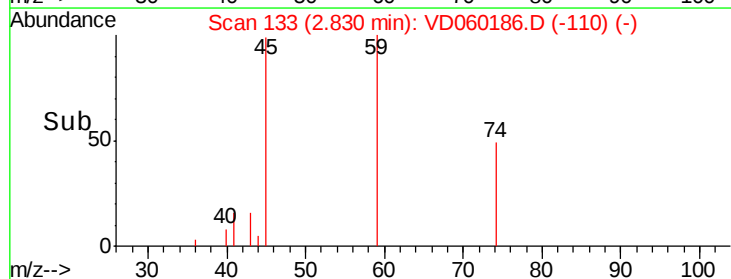
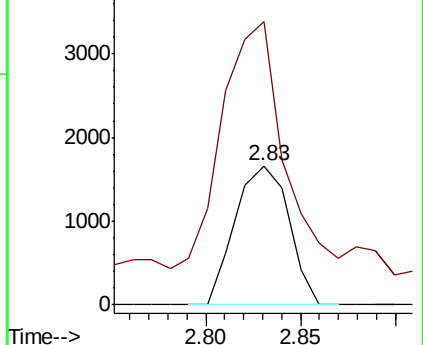
74 100

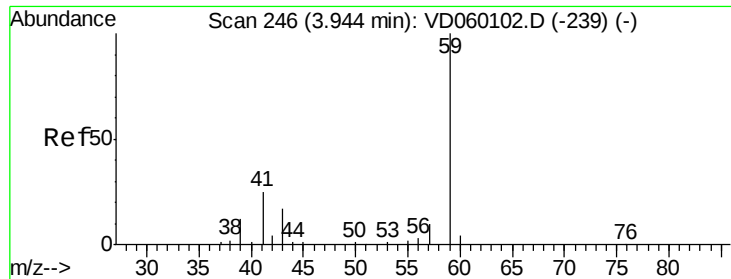
45 203.1 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

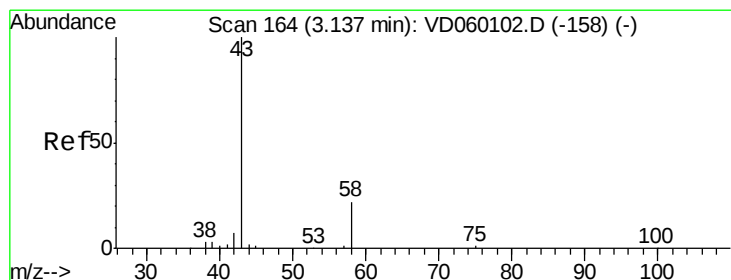
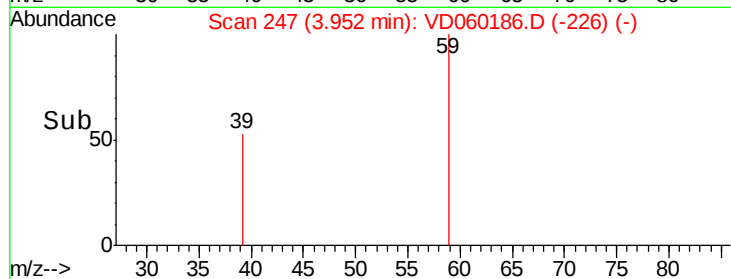
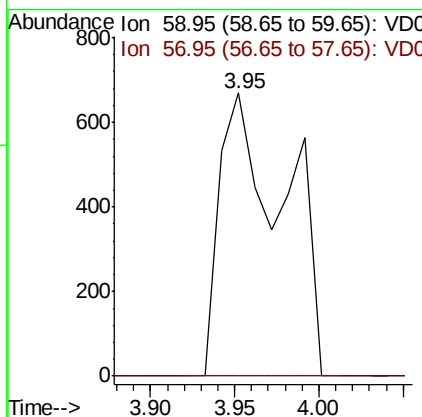
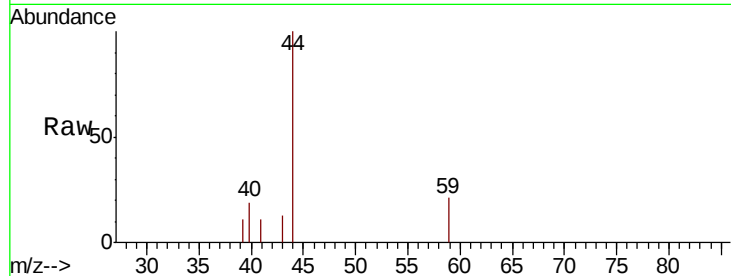




#11  
Tert butyl alcohol  
Concen: 1.884 ug/l  
RT: 3.95 min Scan# 247  
Delta R.T. 0.01 min  
Lab File: VD060186.D  
Acq: 24 Oct 2018 17:15

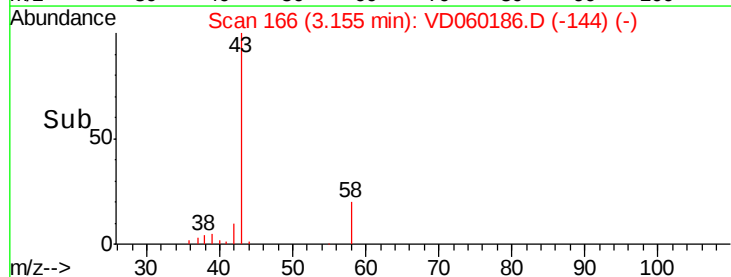
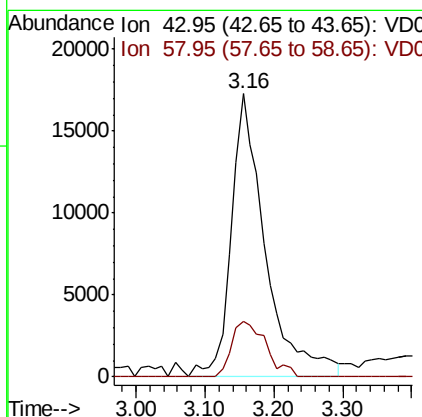
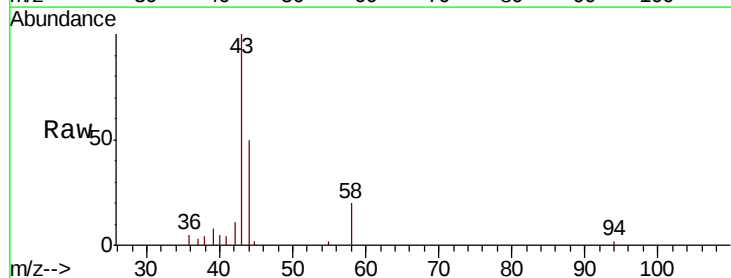
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-102318-B

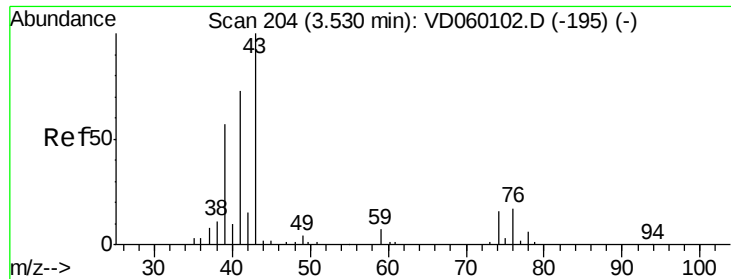
Tot Ion: 59 Resp: 1765  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 24.999 ug/l  
RT: 3.16 min Scan# 166  
Delta R.T. 0.02 min  
Lab File: VD060186.D  
Acq: 24 Oct 2018 17:15

Tgt Ion: 43 Resp: 59240  
Ion Ratio Lower Upper  
43 100  
58 19.7 17.7 26.5

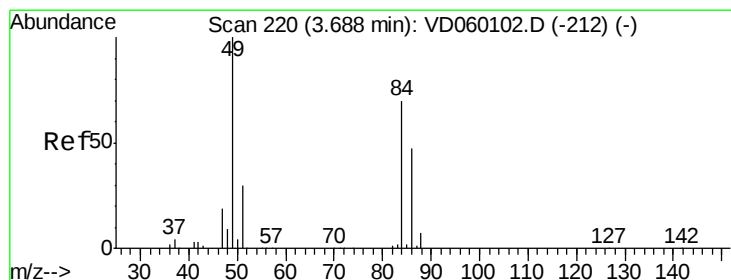
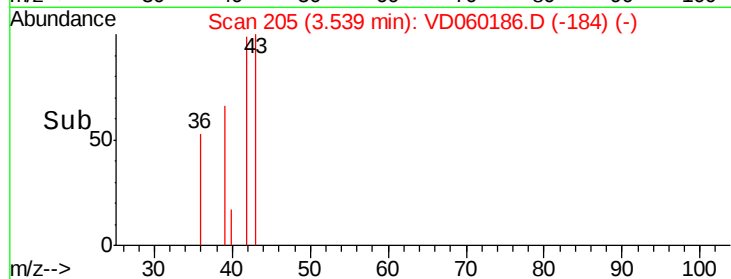
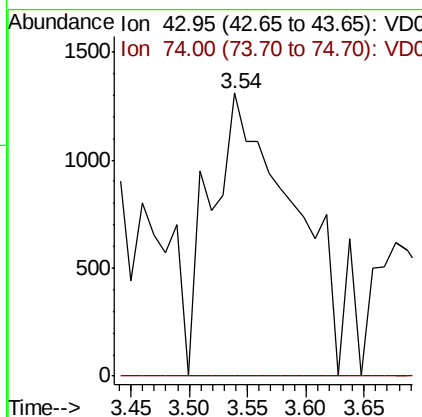
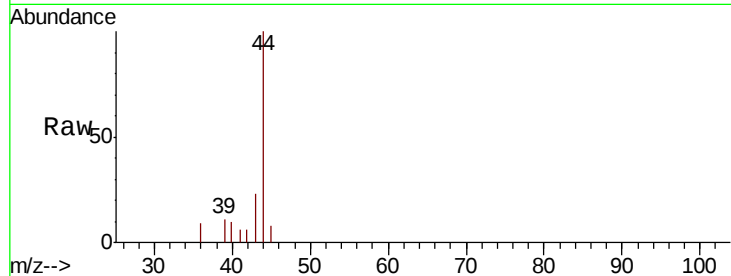




#18  
Methyl Acetate  
Concen: 1.248 ug/l  
RT: 3.54 min Scan# 205  
Delta R.T. 0.01 min  
Lab File: VD060186.D  
Acq: 24 Oct 2018 17:15

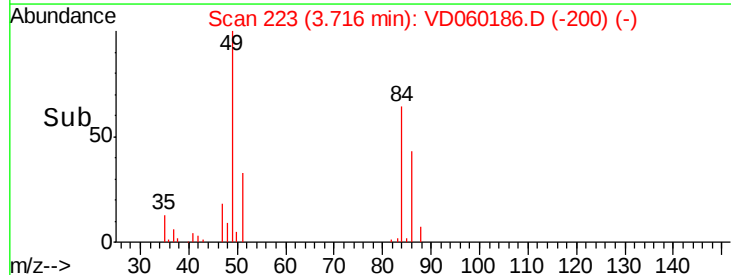
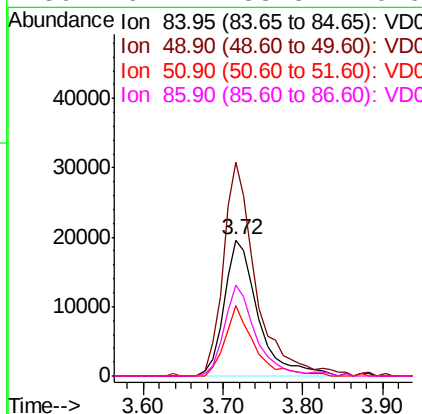
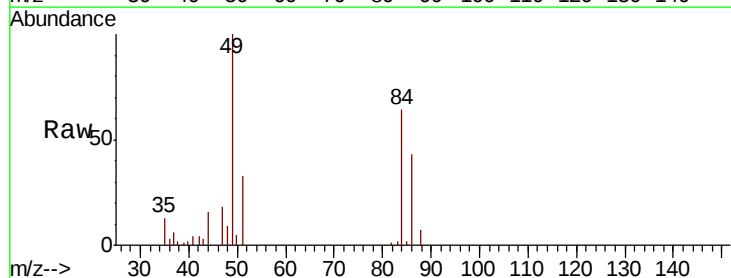
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-102318-B

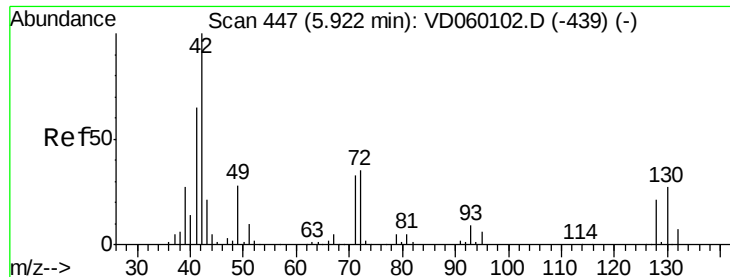
Tot Ion: 43 Resp: 6357  
Ion Ratio Lower Upper  
43 100  
74 0.0 12.6 19.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 3.72 min Scan# 223  
Delta R.T. 0.03 min  
Lab File: VD060186.D  
Acq: 24 Oct 2018 17:15

Tgt Ion: 84 Resp: 58184  
Ion Ratio Lower Upper  
84 100  
49 157.4 114.6 172.0  
51 51.6 33.8 50.8#  
86 67.1 53.3 79.9





#29

Tetrahydrofuran

Concen: 1.031 ug/l

RT: 5.95 min Scan# 450

Delta R.T. 0.03 min

Lab File: VD060186.D

Acq: 24 Oct 2018 17:15

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-102318-B

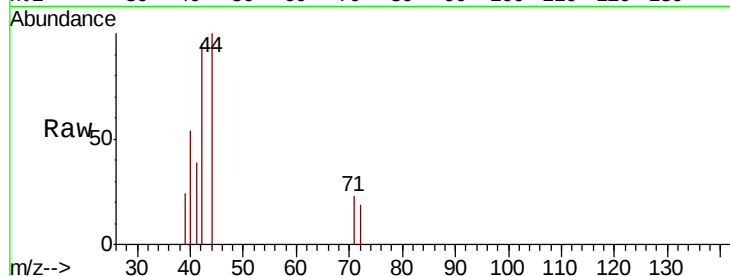
Tot Ion: 42 Resp: 3547

Ion Ratio Lower Upper

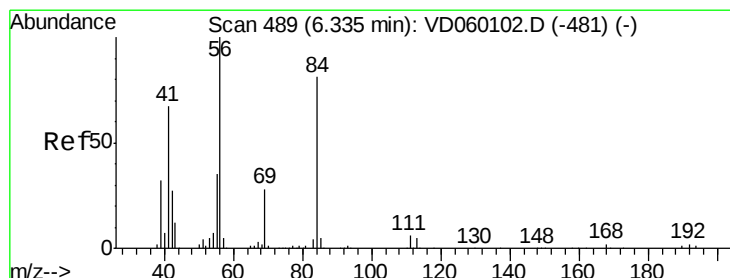
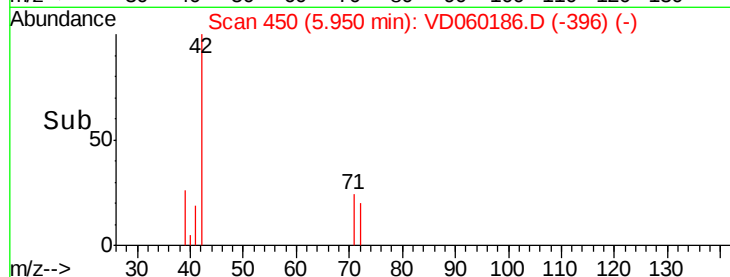
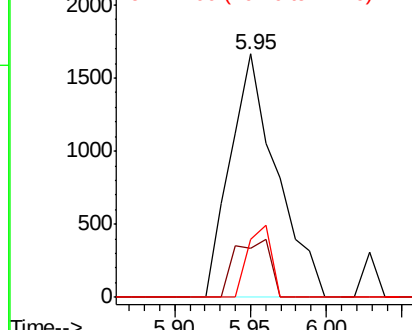
42 100

72 18.0 26.9 40.3#

71 14.7 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: 1.176 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.07 min

Lab File: VD060186.D

Acq: 24 Oct 2018 17:15

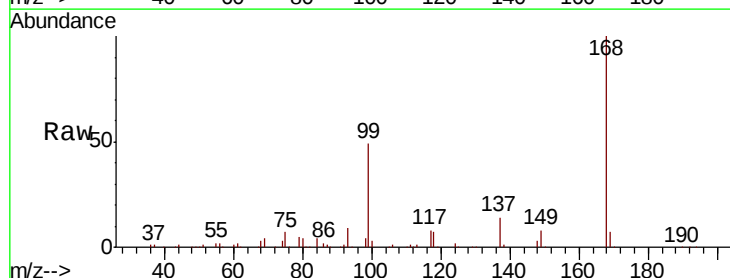
Tgt Ion: 56 Resp: 33285

Ion Ratio Lower Upper

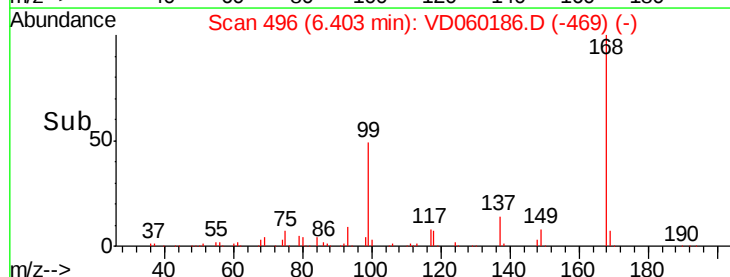
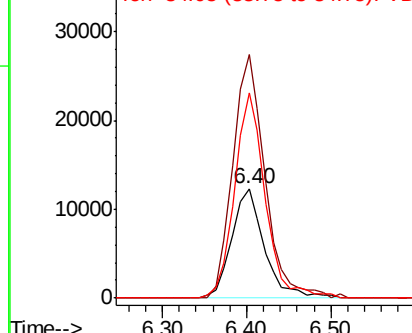
56 100

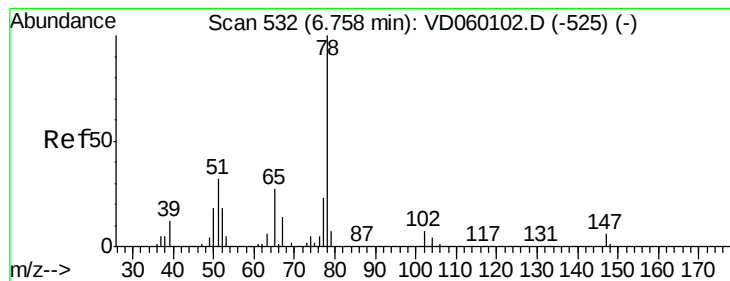
69 222.8 22.8 34.2#

84 187.5 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: 6.79 min Scan# 535

Delta R.T. 0.03 min

Lab File: VD060186.D

Acq: 24 Oct 2018 17:15

Instrument :

MSVOA\_D

ClientSampleId :

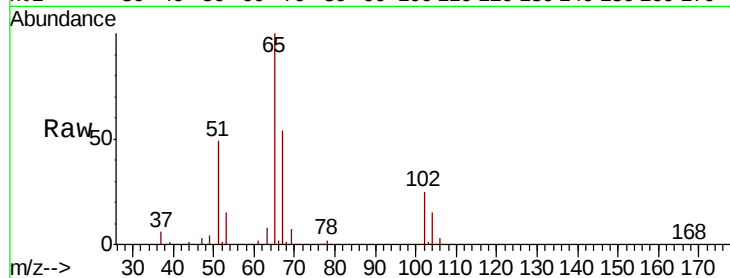
CL-01-102318-B

Tot Ion: 65 Resp: 701732

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.79

250000

200000

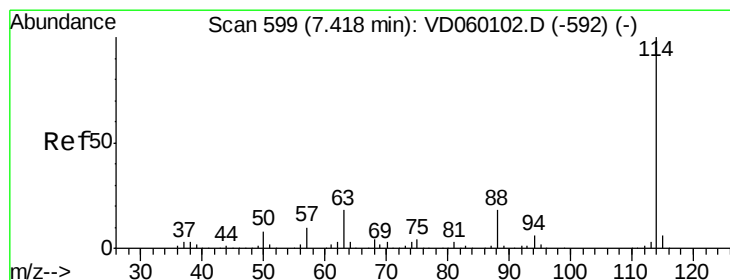
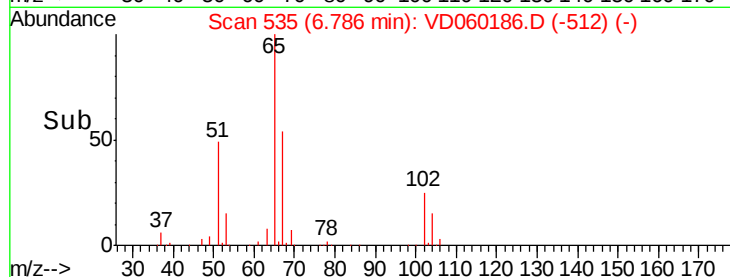
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.45 min Scan# 602

Delta R.T. 0.03 min

Lab File: VD060186.D

Acq: 24 Oct 2018 17:15

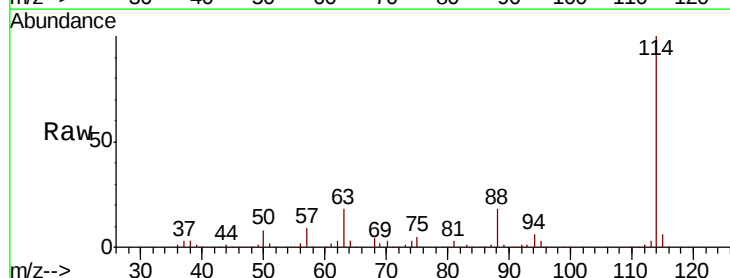
Tgt Ion: 114 Resp: 2409807

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.0

88 17.6 0.0 36.2



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.45

1200000

1000000

800000

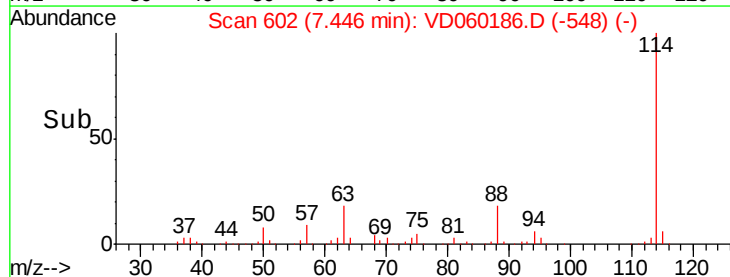
600000

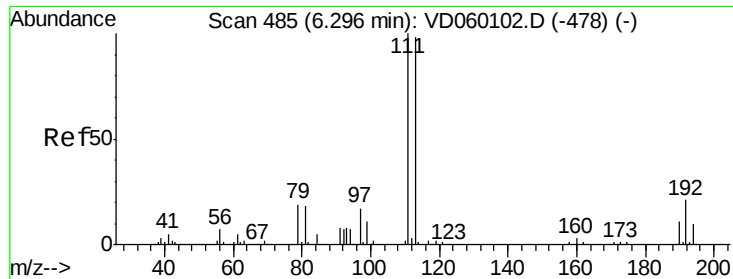
400000

200000

0

Time-->

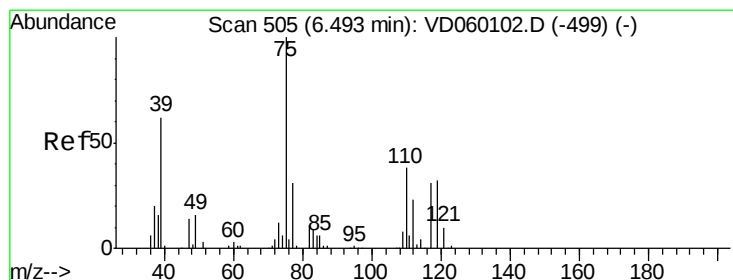
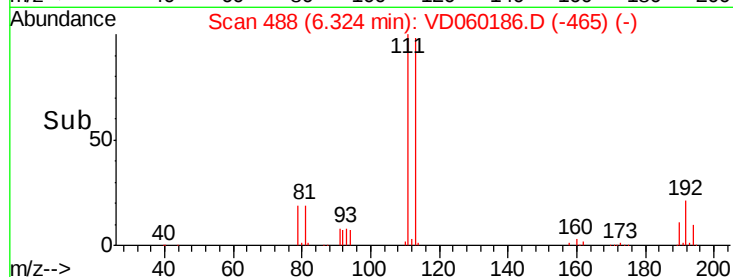
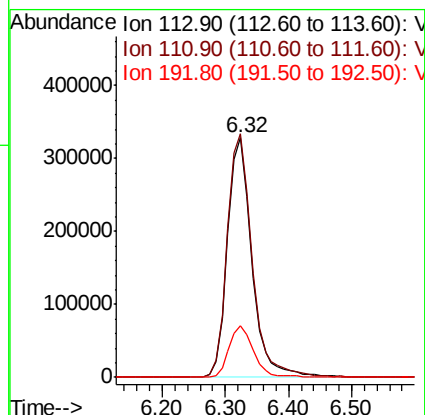
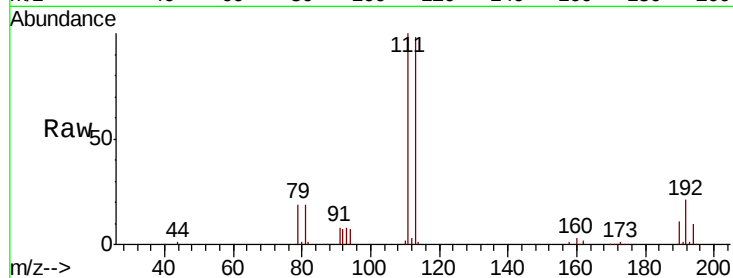




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.32 min Scan# 488  
 Delta R.T. 0.03 min  
 Lab File: VD060186.D  
 Acq: 24 Oct 2018 17:15

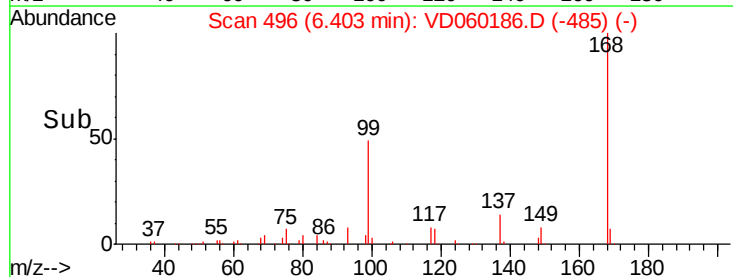
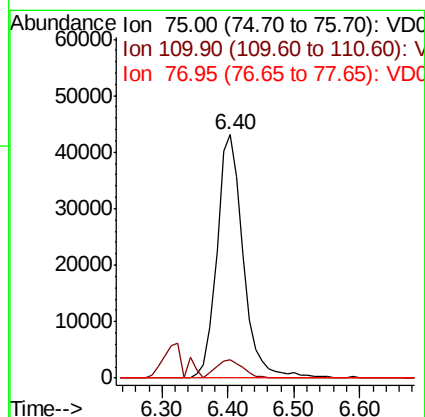
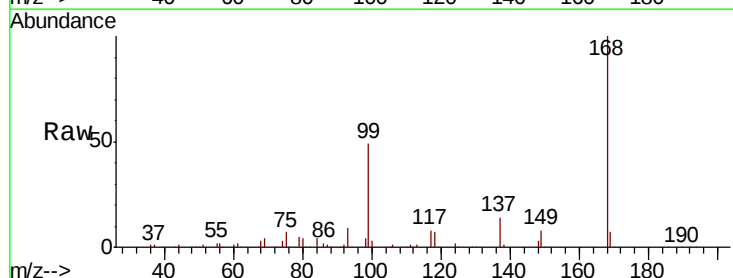
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 CL-01-102318-B

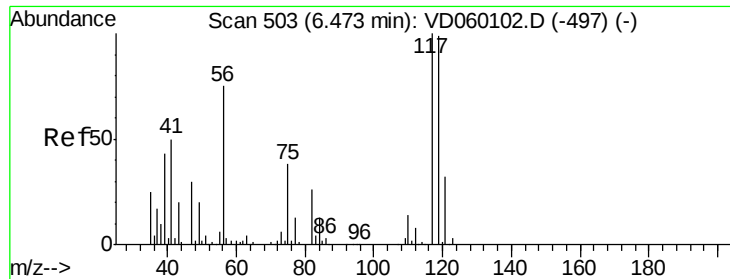
Tot Ion:113 Resp: 881804  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 81.5 122.3  
 192 21.3 17.4 26.0



#36  
 1,1-Dichloropropene  
 Concen: 5.165 ug/l  
 RT: 6.40 min Scan# 496  
 Delta R.T. -0.09 min  
 Lab File: VD060186.D  
 Acq: 24 Oct 2018 17:15

Tgt Ion: 75 Resp: 118941  
 Ion Ratio Lower Upper  
 75 100  
 110 7.5 19.0 57.0#  
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.335 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.07 min

Lab File: VD060186.D

Acq: 24 Oct 2018 17:15

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-102318-B

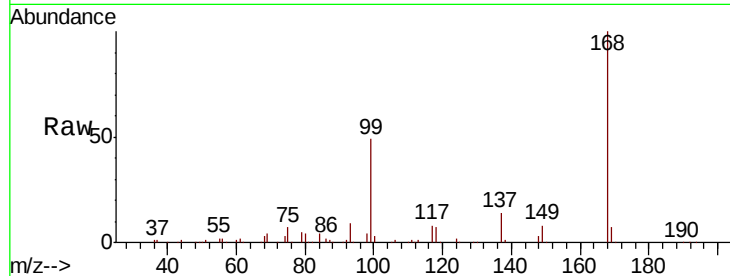
Tot Ion:117 Resp: 132395

Ion Ratio Lower Upper

117 100

119 4.4 77.8 116.6#

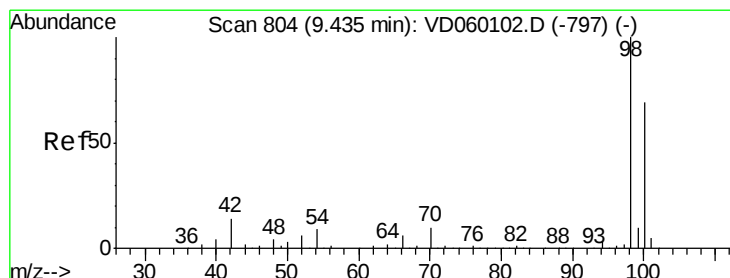
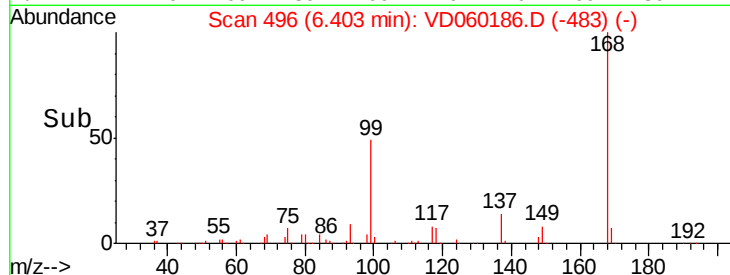
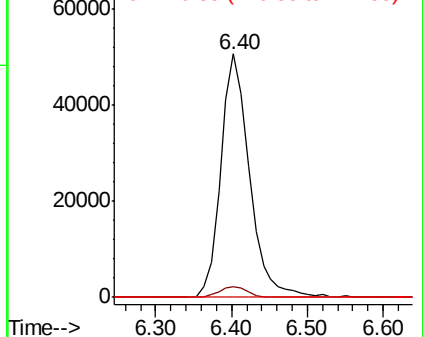
121 0.0 24.8 37.2#



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: 9.45 min Scan# 806

Delta R.T. 0.02 min

Lab File: VD060186.D

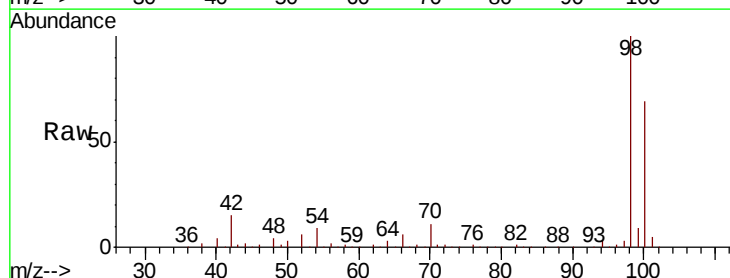
Acq: 24 Oct 2018 17:15

Tgt Ion: 98 Resp: 2063677

Ion Ratio Lower Upper

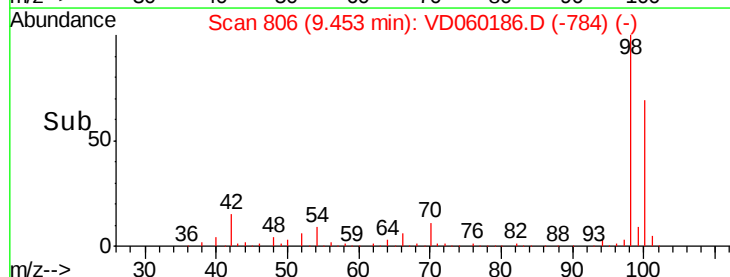
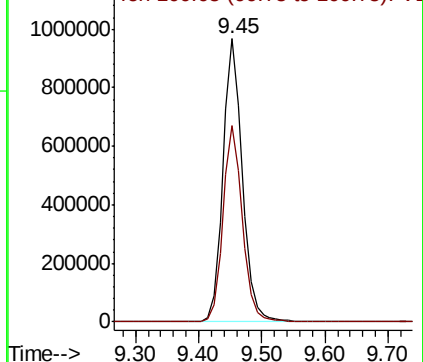
98 100

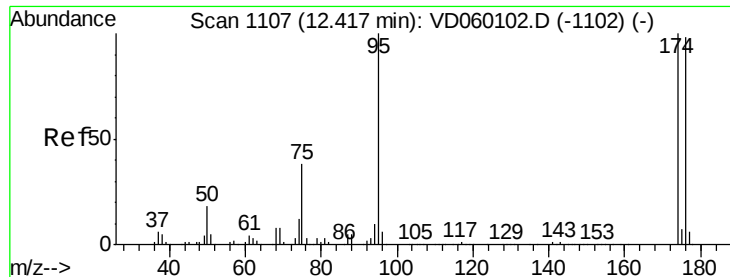
100 69.4 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

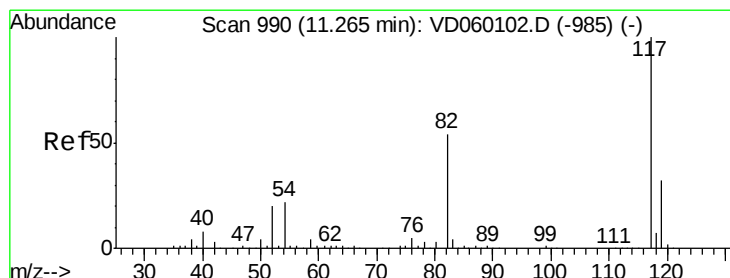
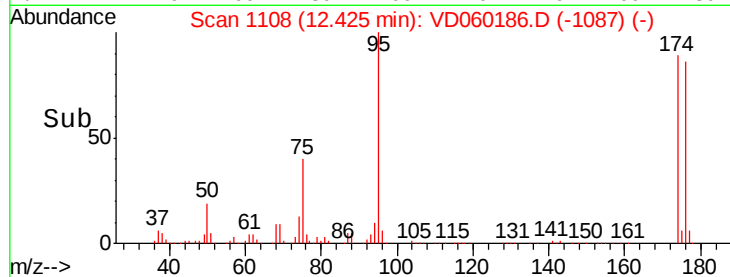
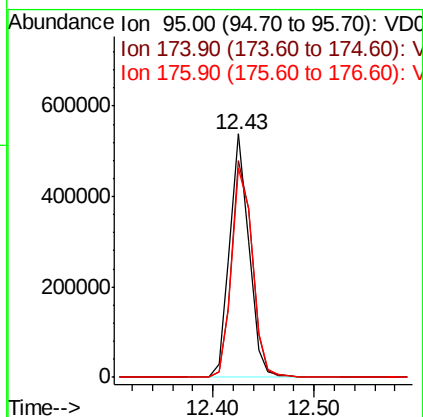
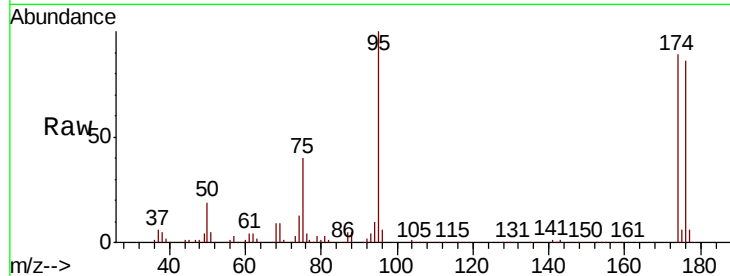




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. 0.01 min  
Lab File: VD060186.D  
Acq: 24 Oct 2018 17:15

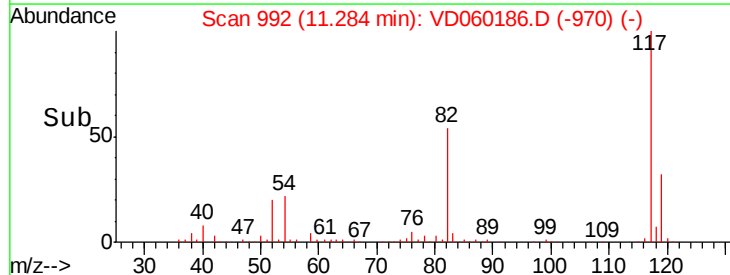
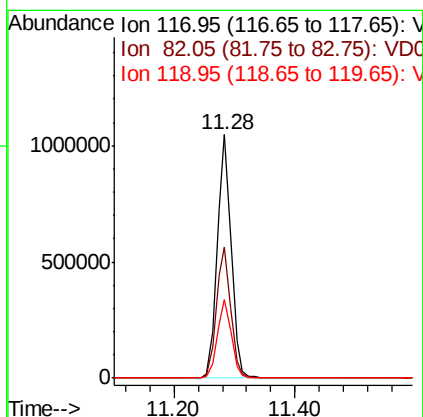
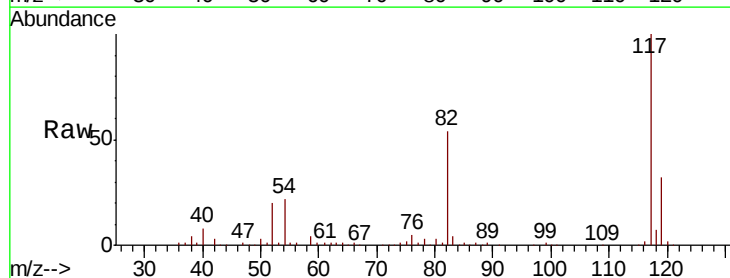
Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-01-102318-B

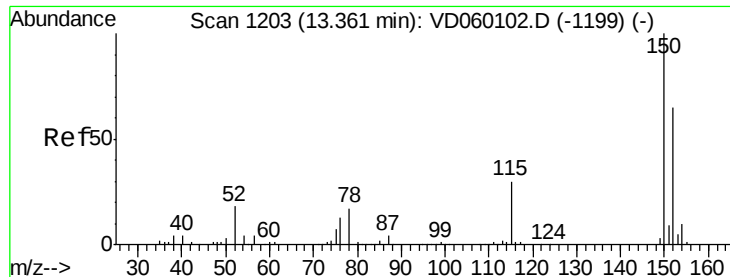
Tot Ion: 95 Resp: 715379  
Ion Ratio Lower Upper  
95 100  
174 89.3 0.0 200.2  
176 86.1 0.0 195.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.28 min Scan# 992  
Delta R.T. 0.02 min  
Lab File: VD060186.D  
Acq: 24 Oct 2018 17:15

Tgt Ion: 117 Resp: 1672011  
Ion Ratio Lower Upper  
117 100  
82 53.5 43.4 65.2  
119 32.4 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: VD060186.D

Acq: 24 Oct 2018 17:15

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-102318-B

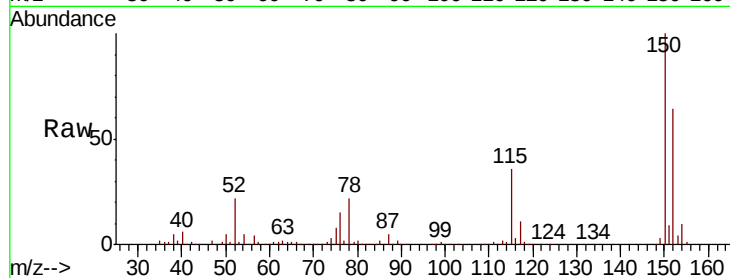
Tot Ion:152 Resp: 628561

Ion Ratio Lower Upper

152 100

115 56.1 27.1 81.2

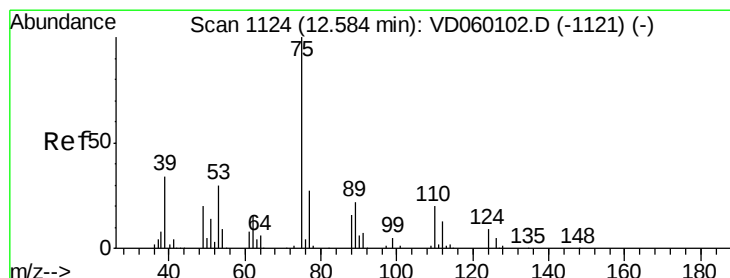
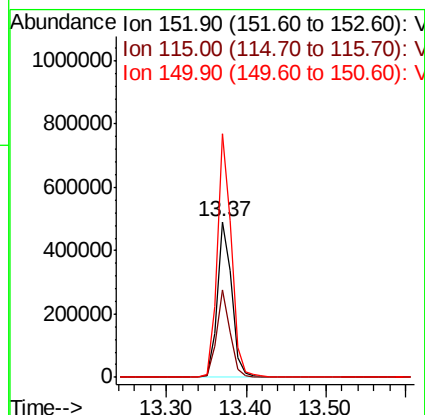
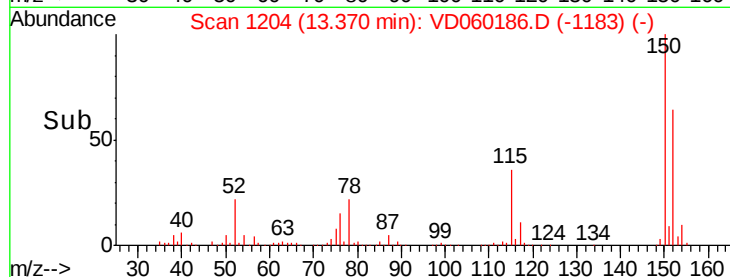
150 156.7 0.0 311.8



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: 30.950 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060186.D

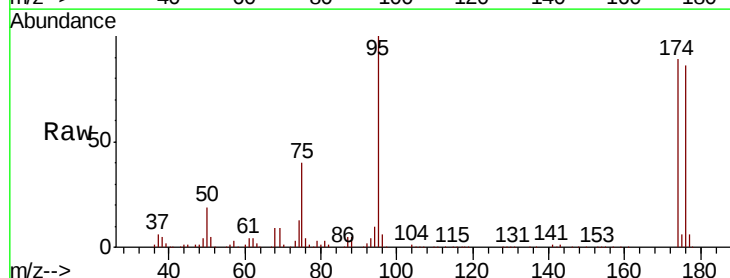
Acq: 24 Oct 2018 17:15

Tgt Ion: 75 Resp: 280164

Ion Ratio Lower Upper

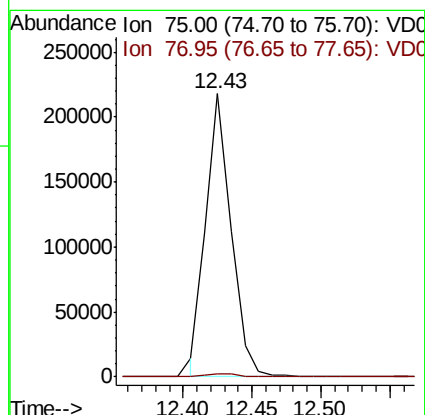
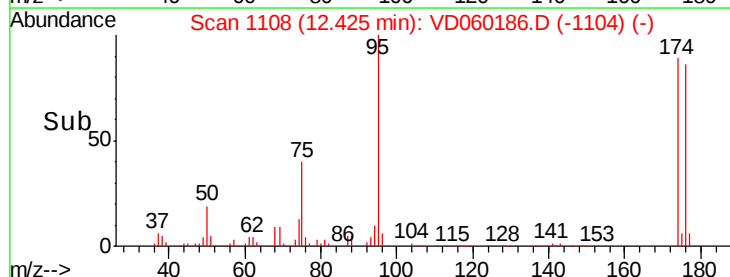
75 100

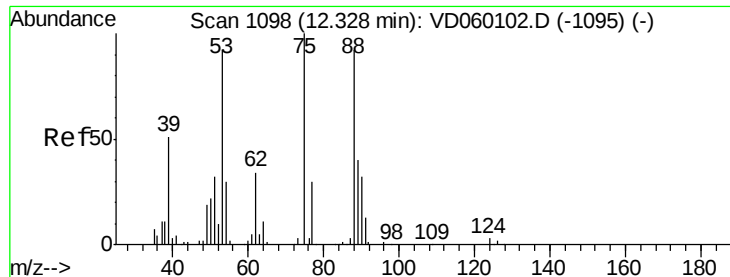
77 1.3 16.3 48.9#



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: 113.391 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.10 min

Lab File: VD060186.D

Acq: 24 Oct 2018 17:15

Instrument :

MSVOA\_D

ClientSampleId :

CL-01-102318-B

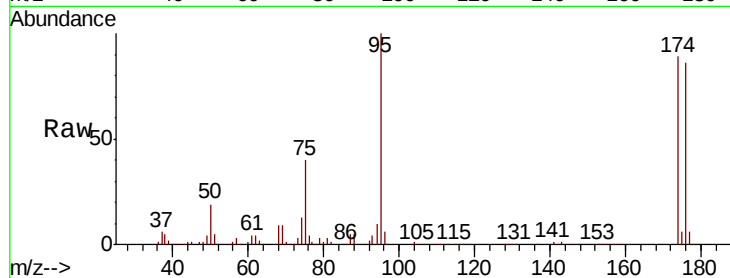
Tot Ion: 75 Resp: 288411

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

89 0.0 32.0 48.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 89.00 (88.70 to 89.70): VDC

