

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD041919\  
 Data File : VD061914.D  
 Acq On : 19 Apr 2019 17:12  
 Operator : VA/AP  
 Sample : K2422-07RE  
 Misc : 4.69g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP1-D

Quant Time: Apr 19 17:39:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 491862   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 826792   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 699719   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 340256   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 243835   | 59.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.30% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 320888   | 51.37 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 102.74% |          |
| 50) Toluene-d8              | 10.42 | 98   | 711227   | 48.05 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 96.10%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 303351   | 50.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.14% |          |

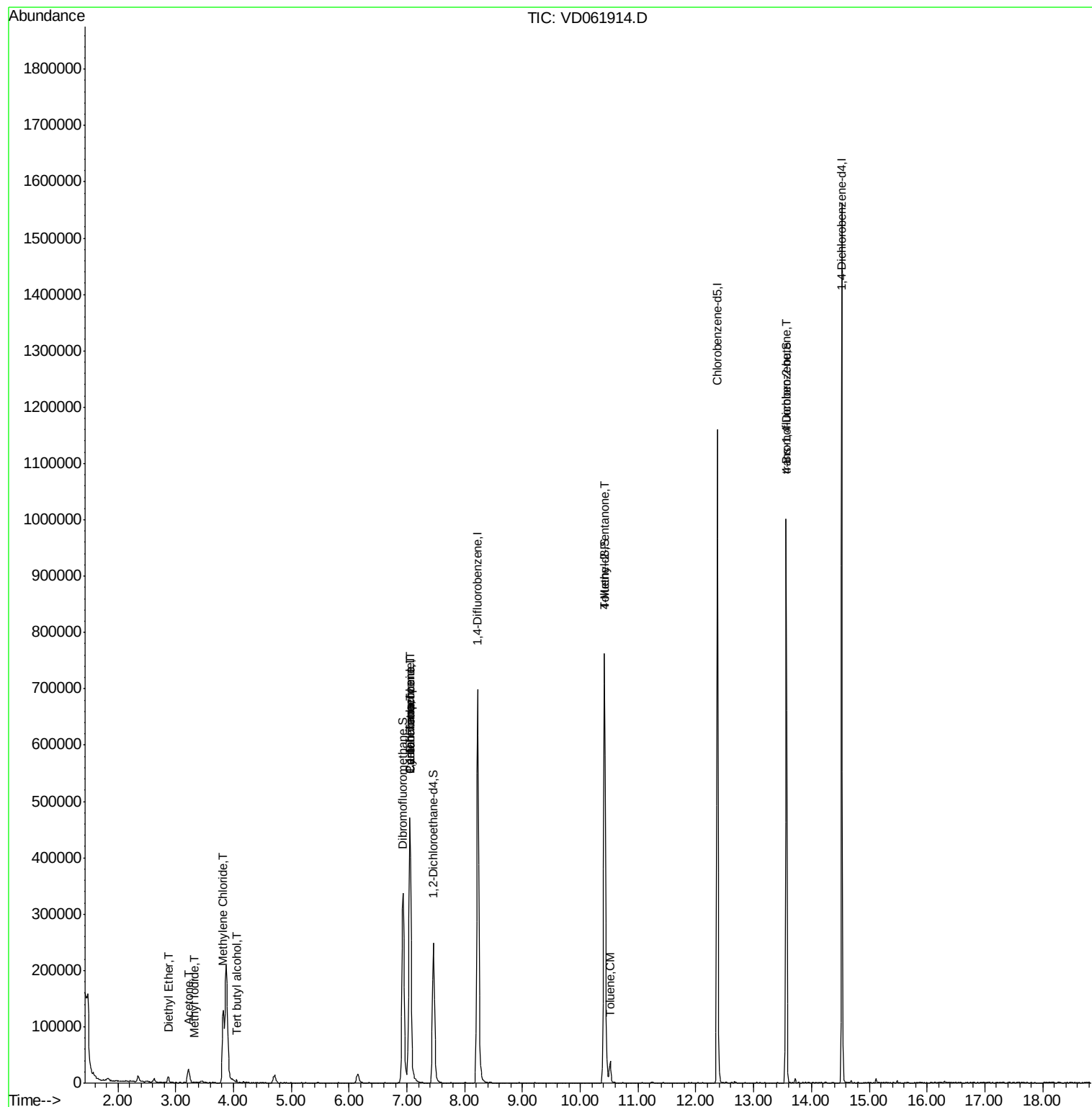
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.13  | 94   | 1608     | Below Cal | #      | 12     |
| 8) Diethyl Ether               | 2.87  | 74   | 3640     | 2.255     | ug/l # | 44     |
| 10) Methyl Iodide              | 3.32  | 142  | 218      | 3.538     | ug/l # | 37     |
| 11) Tert butyl alcohol         | 4.06  | 59   | 700      | 2.879     | ug/l # | 76     |
| 16) Acetone                    | 3.22  | 43   | 48052    | 47.296    | ug/l   | 97     |
| 20) Methylene Chloride         | 3.82  | 84   | 93592    | 15.354    | ug/l   | 98     |
| 31) Cyclohexane                | 7.05  | 56   | 8154     | 1.306     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 37014    | 5.478     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.05  | 117  | 46896    | 5.497     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.41 | 43   | 2520     | 1.013     | ug/l # | 1      |
| 52) Toluene                    | 10.52 | 92   | 20550    | 1.977     | ug/l   | 90     |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 118633   | 79.790    | ug/l # | 16     |

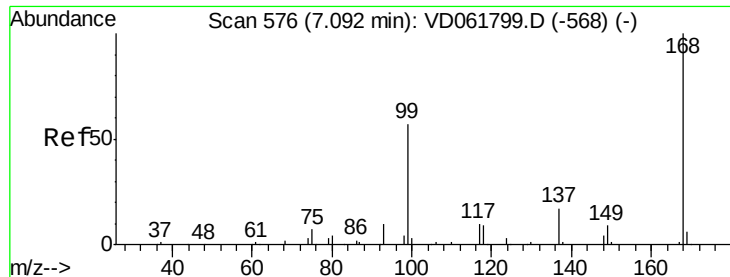
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD041919\  
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MSVOA\_D  
ClientSampleId :  
TP1-D

Quant Time: Apr 19 17:39:47 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 18 13:49:04 2019  
Response via : Initial Calibration

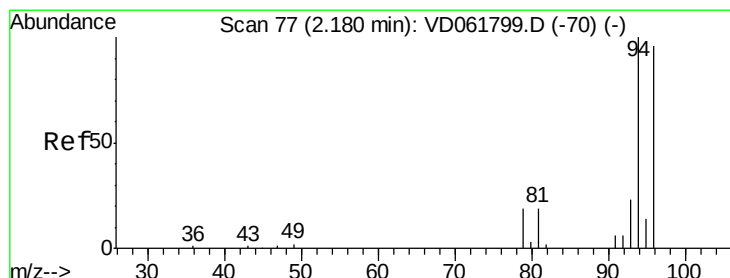
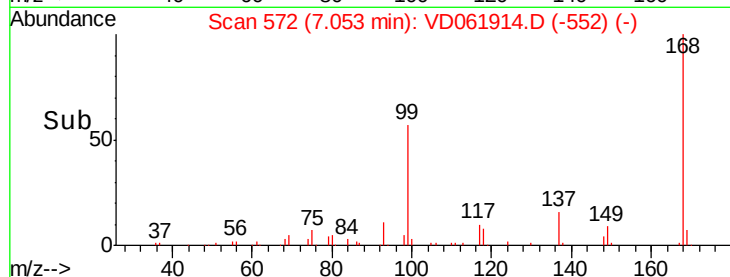
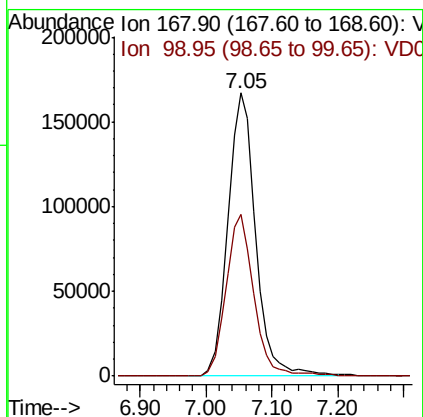
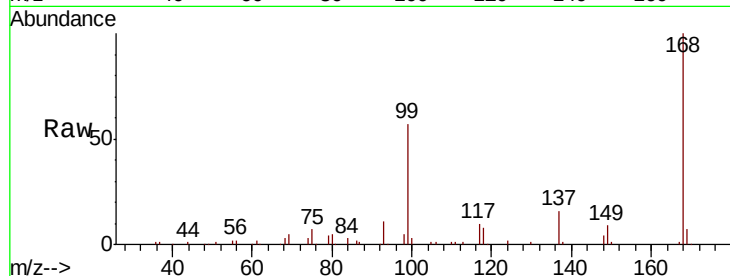




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.05 min Scan# 572  
Delta R.T. 0.00 min  
Lab File: VD061914.D  
Acq: 19 Apr 2019 17:12

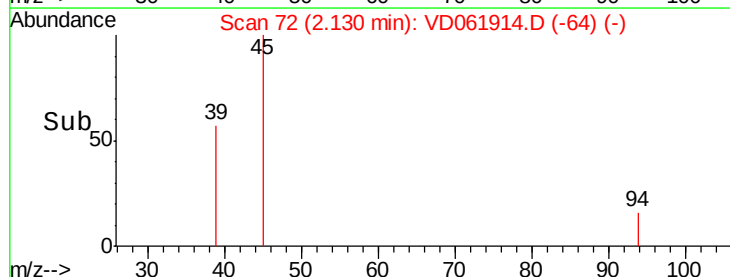
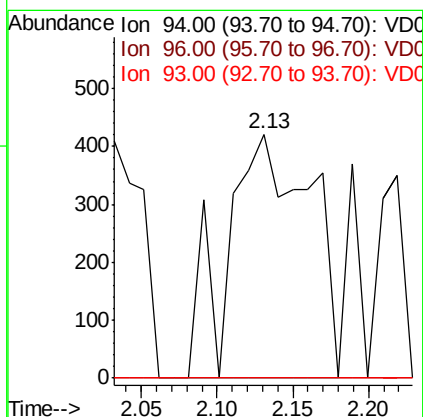
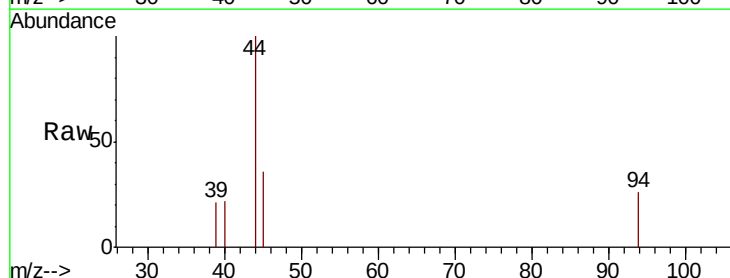
Instrument :  
MSVOA\_D  
ClientSampleID :  
TP1-D

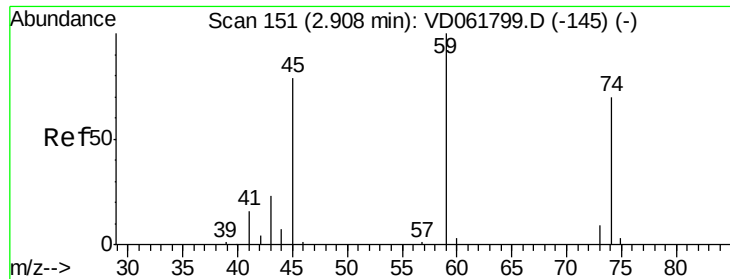
Tgt Ion: 168 Resp: 491862  
Ion Ratio Lower Upper  
168 100  
99 57.0 46.5 69.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.13 min Scan# 72  
Delta R.T. -0.02 min  
Lab File: VD061914.D  
Acq: 19 Apr 2019 17:12

Tgt Ion: 94 Resp: 1608  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.6 115.0#  
93 0.0 18.5 27.7#





#8

Diethyl Ether

Concen: 2.255 ug/l

RT: 2.87 min Scan# 147

Delta R.T. 0.00 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

Instrument :

MSVOA\_D

ClientSampleId :

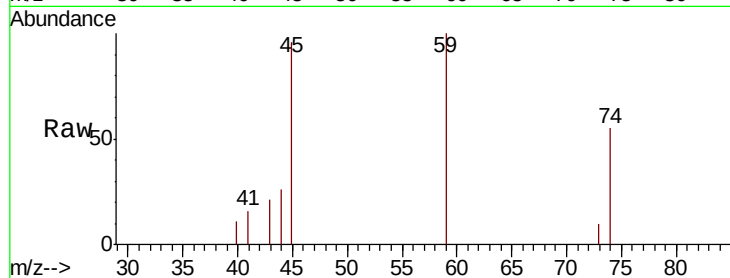
TP1-D

Tgt Ion: 74 Resp: 3640

Ion Ratio Lower Upper

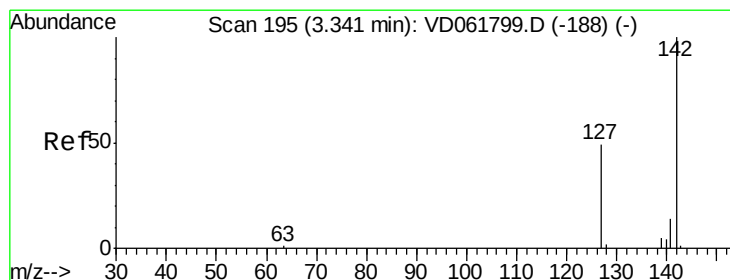
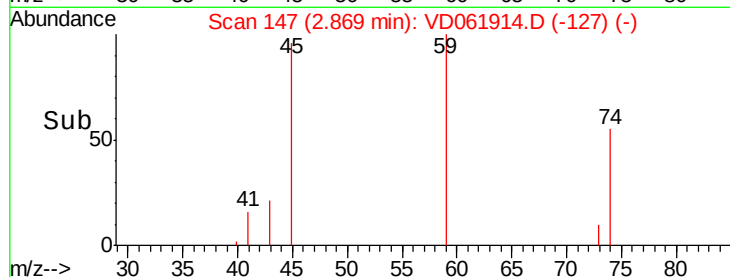
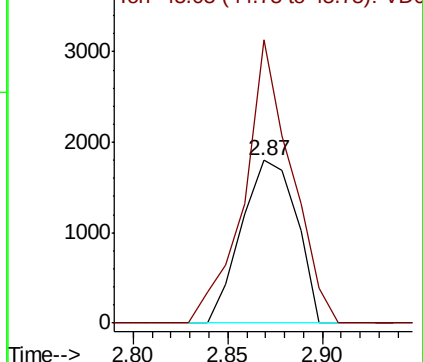
74 100

45 173.9 56.9 170.7#



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.05 (44.75 to 45.75): V



#10

Methyl Iodide

Concen: 3.538 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.01 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

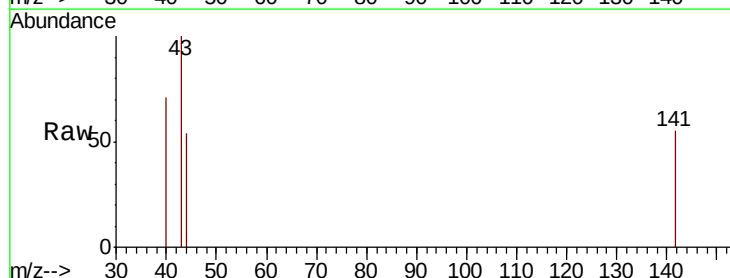
Tgt Ion: 142 Resp: 218

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

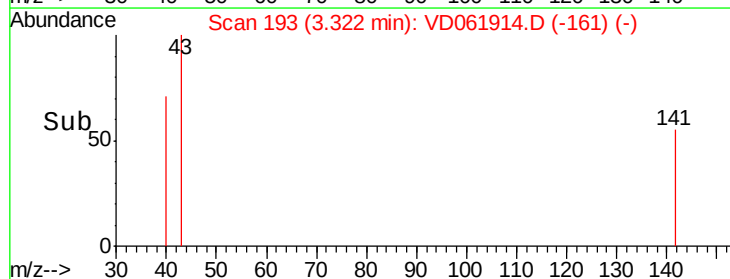
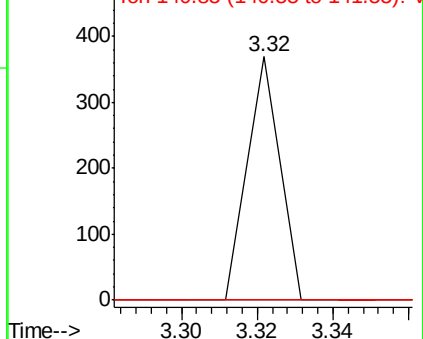
141 0.0 11.4 17.0#

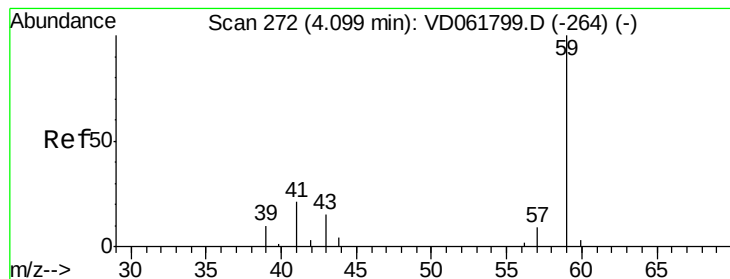


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



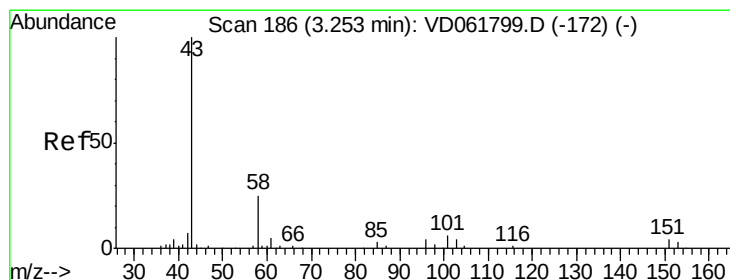
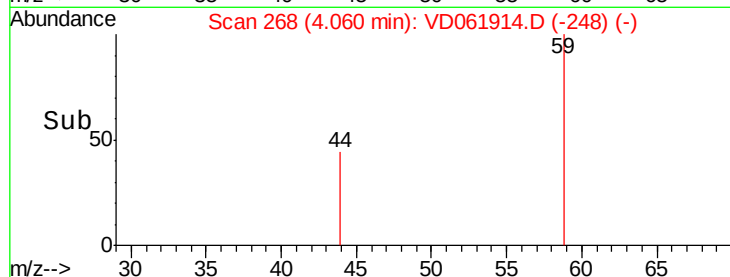
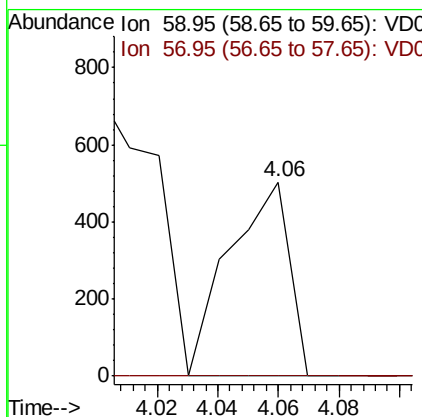
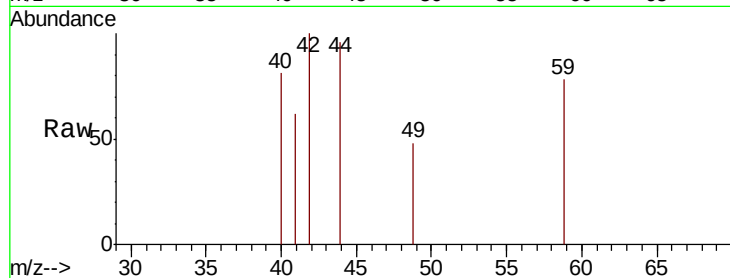


#11

Tert butyl alcohol  
 Concen: 2.879 ug/l  
 RT: 4.06 min Scan# 268  
 Delta R.T. 0.00 min  
 Lab File: VD061914.D  
 Acq: 19 Apr 2019 17:12

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 TP1-D

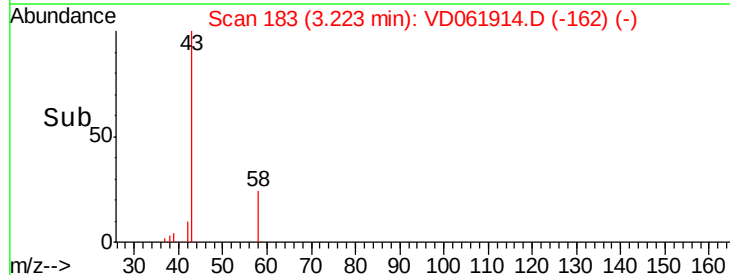
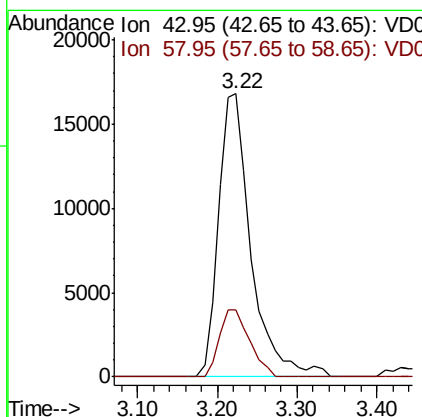
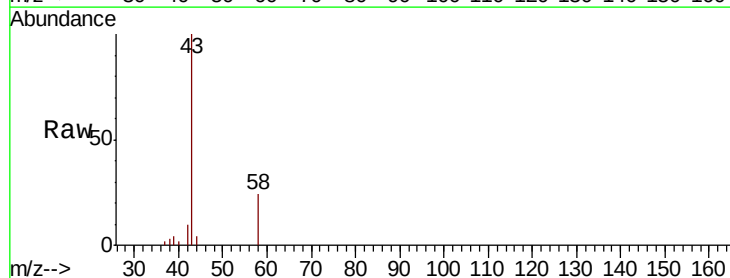
Tgt Ion: 59 Resp: 700  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.9 10.3#

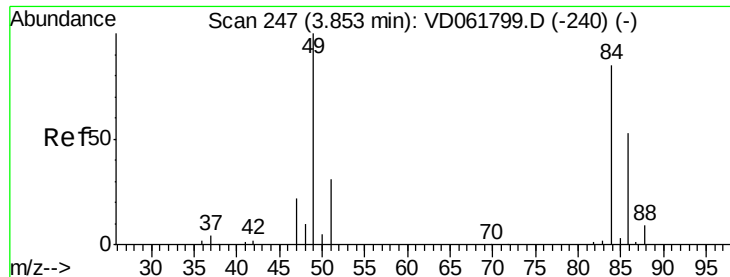


#16

Acetone  
 Concen: 47.296 ug/l  
 RT: 3.22 min Scan# 183  
 Delta R.T. 0.01 min  
 Lab File: VD061914.D  
 Acq: 19 Apr 2019 17:12

Tgt Ion: 43 Resp: 48052  
 Ion Ratio Lower Upper  
 43 100  
 58 23.5 19.9 29.9

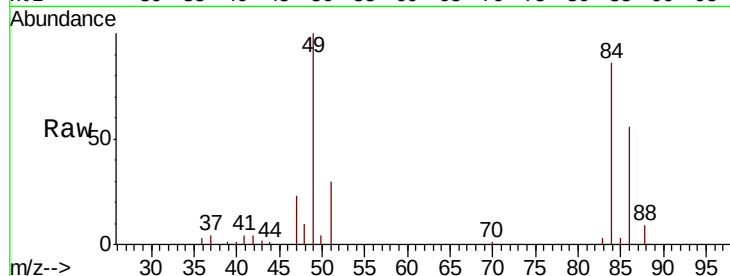




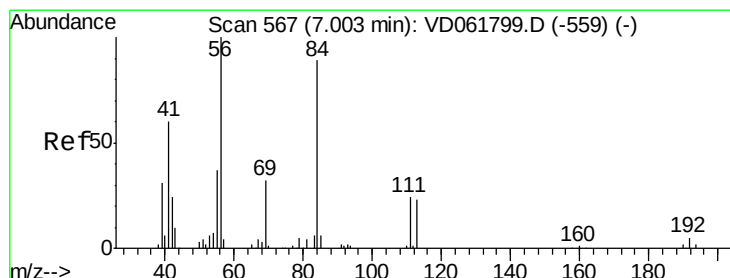
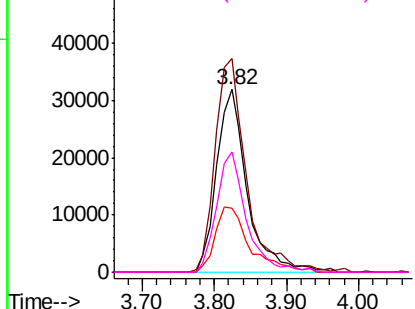
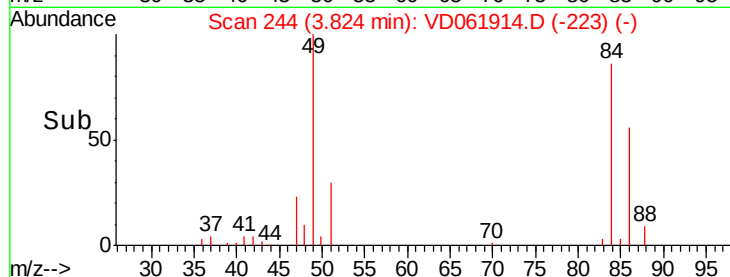
#20  
Methylene Chloride  
Concen: 15.354 ug/l  
RT: 3.82 min Scan# 244  
Delta R.T. 0.01 min  
Lab File: VD061914.D  
Acq: 19 Apr 2019 17:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP1-D

Tgt Ion: 84 Resp: 93592  
Ion Ratio Lower Upper  
84 100  
49 116.9 94.0 141.0  
51 35.3 29.0 43.4  
86 65.5 49.8 74.6

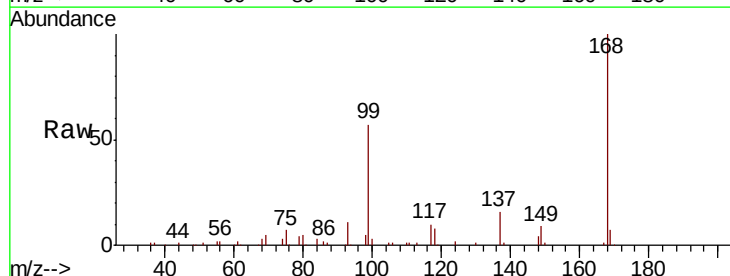


Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

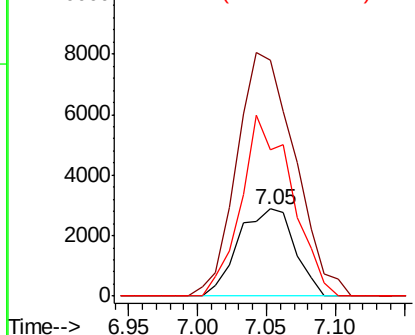
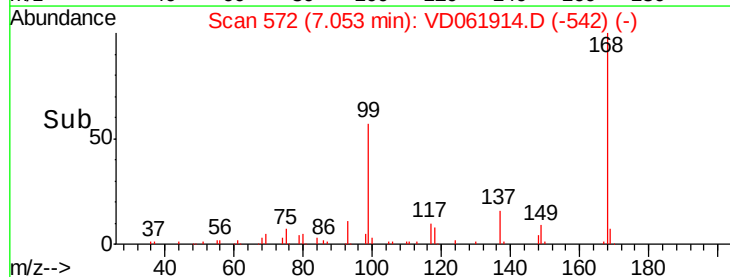


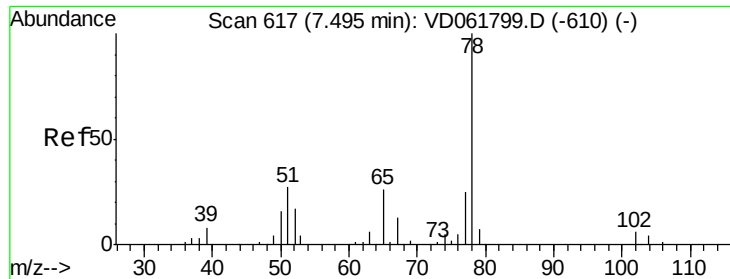
#31  
Cyclohexane  
Concen: 1.306 ug/l  
RT: 7.05 min Scan# 572  
Delta R.T. 0.10 min  
Lab File: VD061914.D  
Acq: 19 Apr 2019 17:12

Tgt Ion: 56 Resp: 8154  
Ion Ratio Lower Upper  
56 100  
69 270.8 25.8 38.6#  
84 169.1 72.2 108.4#



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

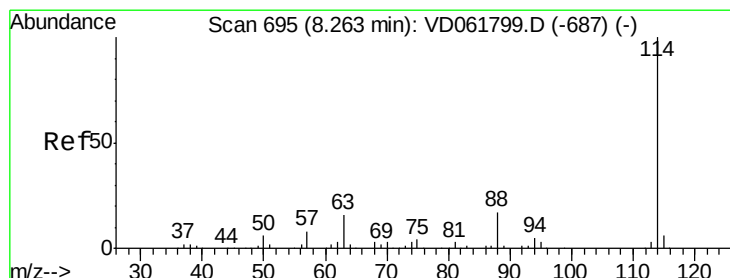
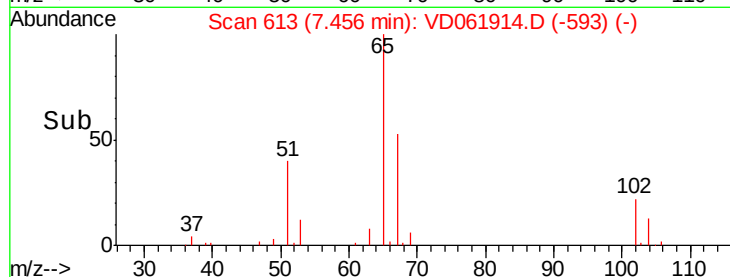
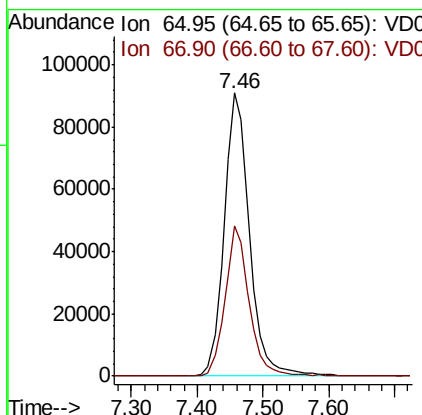
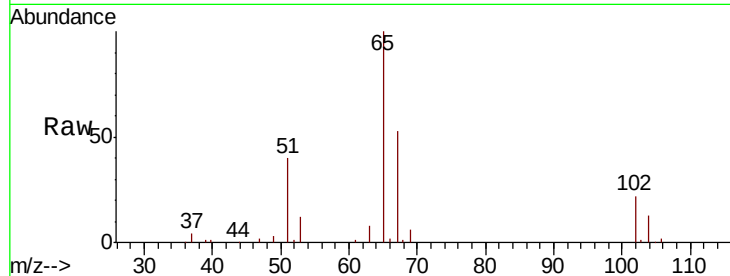




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 7.46 min Scan# 613  
 Delta R.T. 0.00 min  
 Lab File: VD061914.D  
 Acq: 19 Apr 2019 17:12

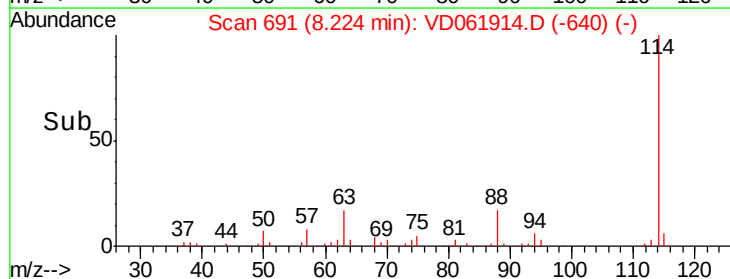
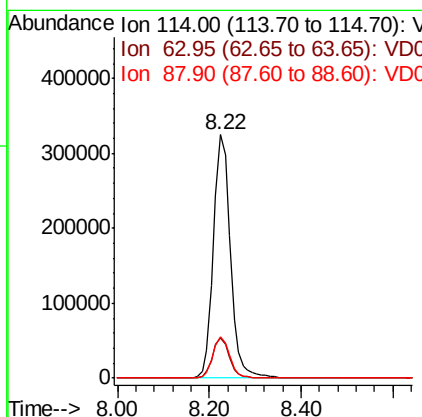
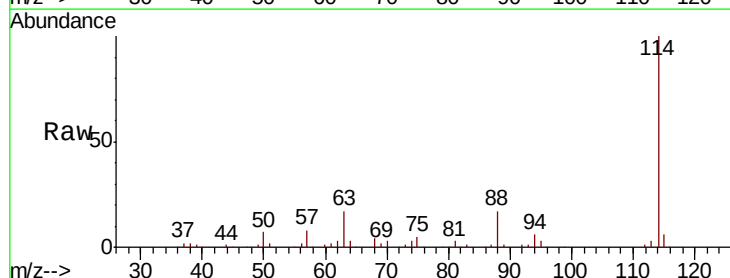
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 TP1-D

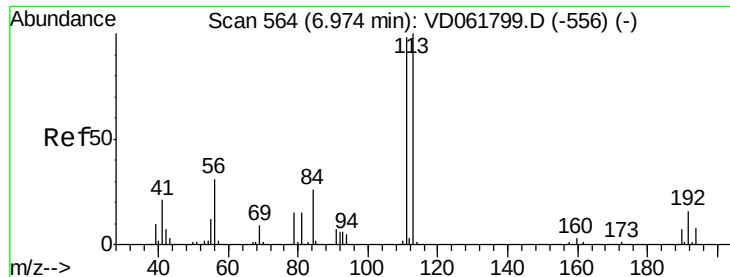
Tgt Ion: 65 Resp: 243835  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 0.0 98.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 691  
 Delta R.T. 0.00 min  
 Lab File: VD061914.D  
 Acq: 19 Apr 2019 17:12

Tgt Ion: 114 Resp: 826792  
 Ion Ratio Lower Upper  
 114 100  
 63 16.7 0.0 32.4  
 88 17.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

Instrument :

MSVOA\_D

ClientSampleId :

TP1-D

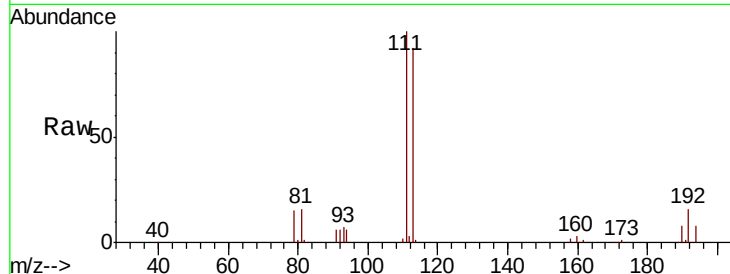
Tgt Ion:113 Resp: 320888

Ion Ratio Lower Upper

113 100

111 108.8 78.5 117.7

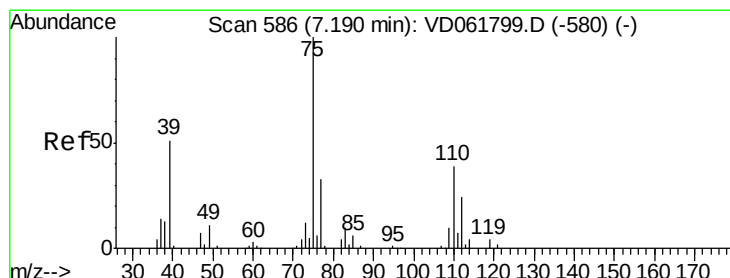
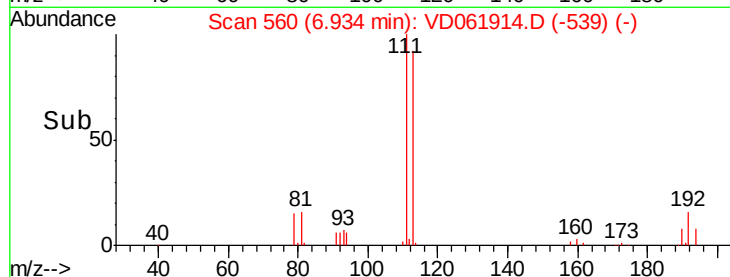
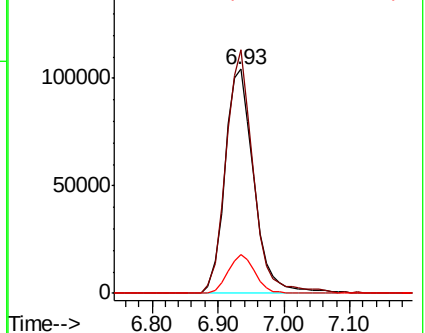
192 17.5 13.0 19.4



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: 5.478 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.11 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

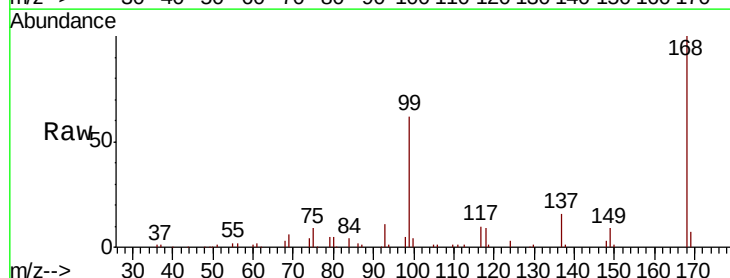
Tgt Ion: 75 Resp: 37014

Ion Ratio Lower Upper

75 100

110 6.7 19.1 57.1#

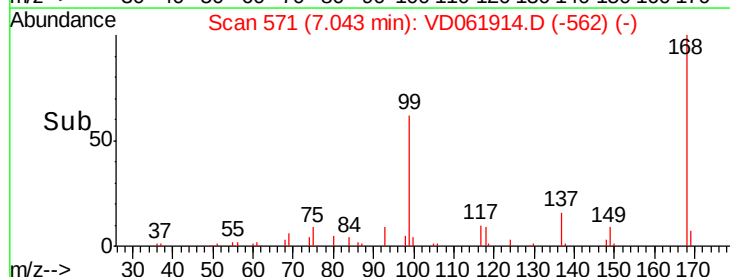
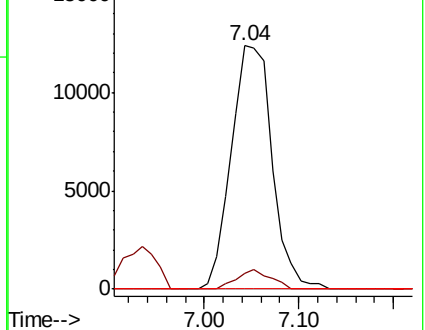
77 0.0 25.6 38.4#



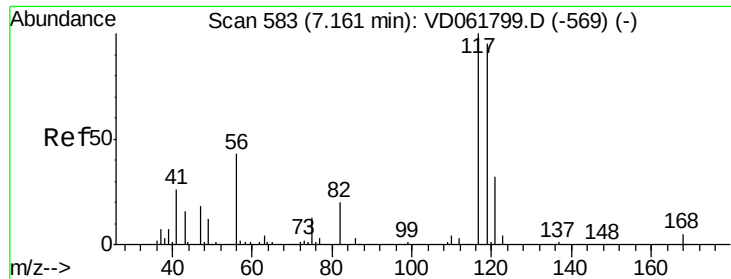
Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V







#38

Carbon Tetrachloride

Concen: 5.497 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

Instrument :

MSVOA\_D

ClientSampleId :

TP1-D

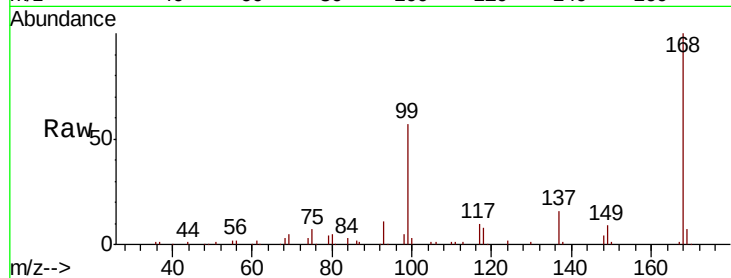
Tgt Ion: 117 Resp: 46896

Ion Ratio Lower Upper

117 100

119 3.1 75.8 113.8#

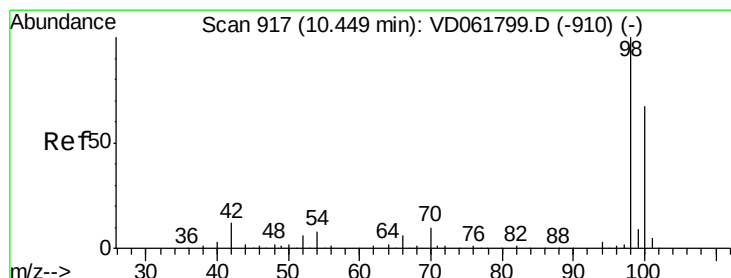
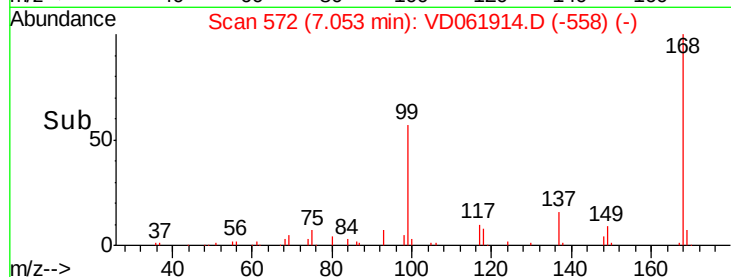
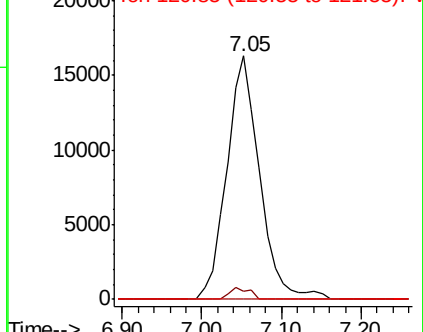
121 0.0 25.9 38.9#



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: 10.42 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD061914.D

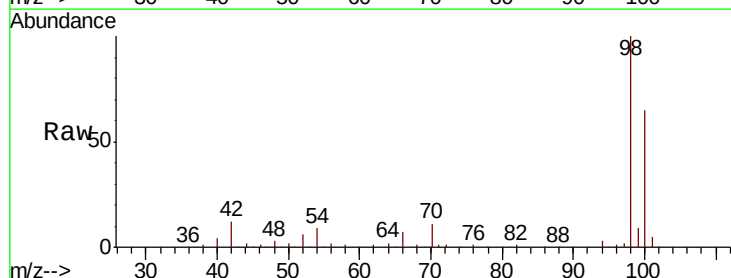
Acq: 19 Apr 2019 17:12

Tgt Ion: 98 Resp: 711227

Ion Ratio Lower Upper

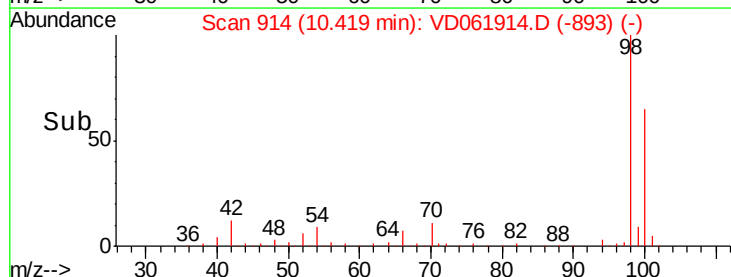
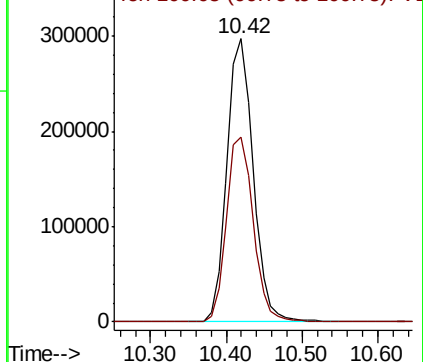
98 100

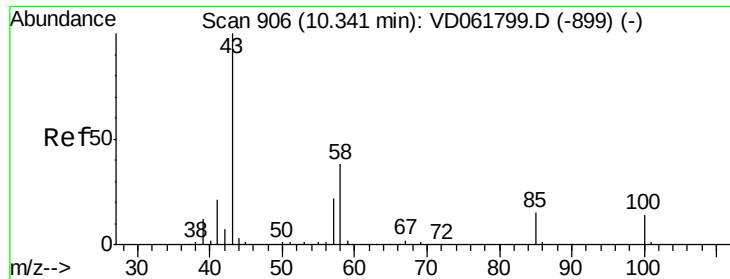
100 65.2 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.013 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.11 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

Instrument :

MSVOA\_D

ClientSampleId :

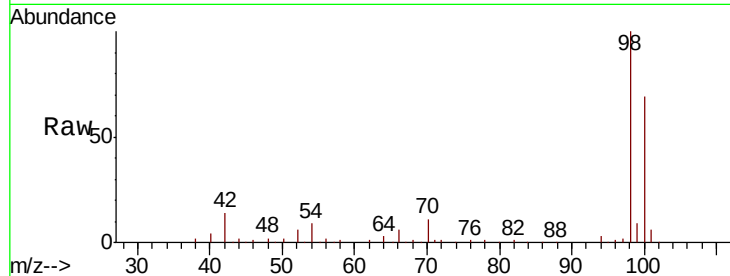
TP1-D

Tgt Ion: 43 Resp: 2520

Ion Ratio Lower Upper

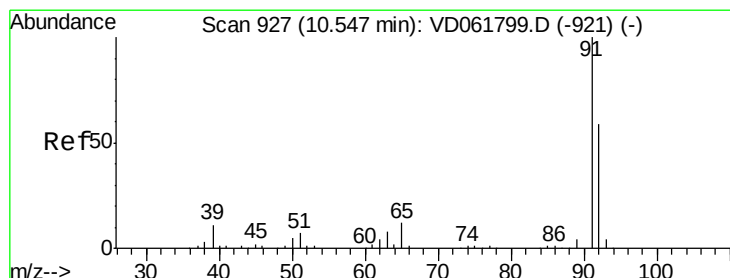
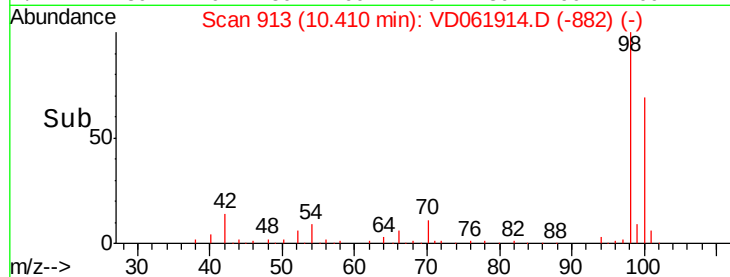
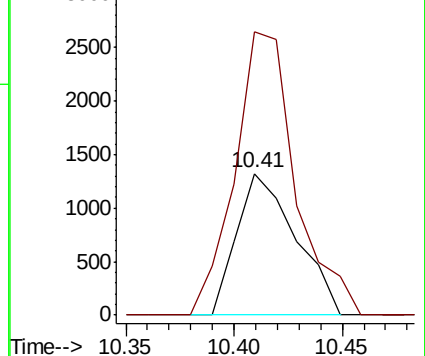
43 100

58 199.4 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 1.977 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061914.D

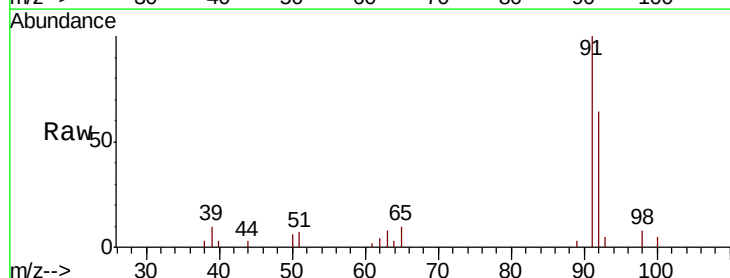
Acq: 19 Apr 2019 17:12

Tgt Ion: 92 Resp: 20550

Ion Ratio Lower Upper

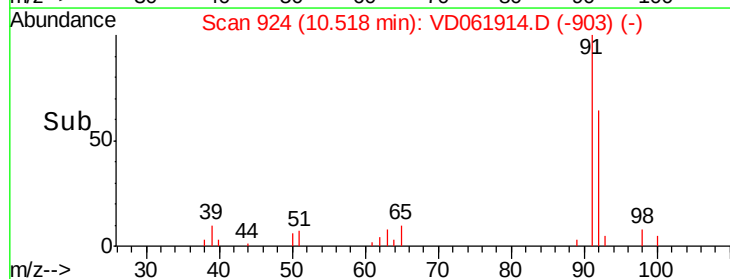
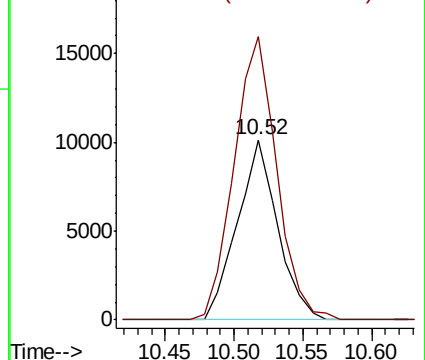
92 100

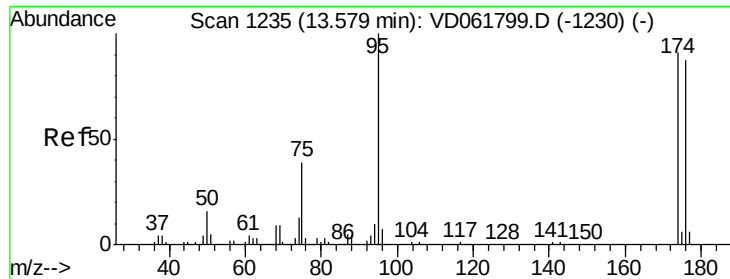
91 157.1 136.6 204.8



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: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

Instrument :

MSVOA\_D

ClientSampleId :

TP1-D

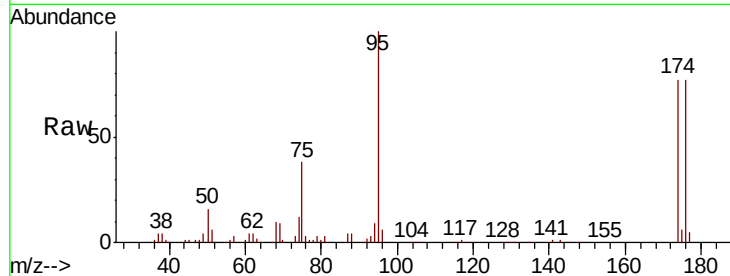
Tgt Ion: 95 Resp: 303351

Ion Ratio Lower Upper

95 100

174 77.5 0.0 181.8

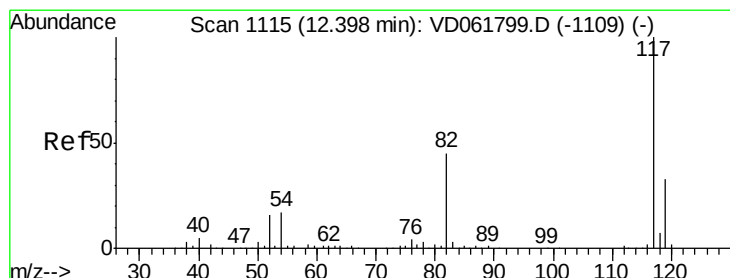
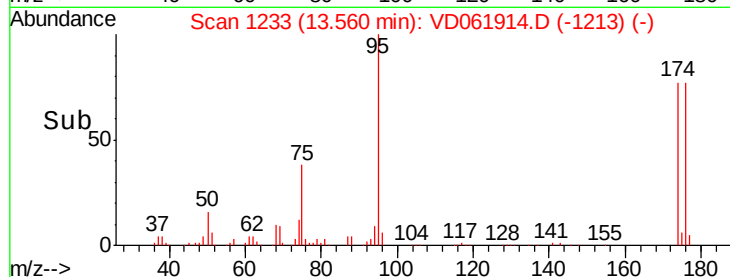
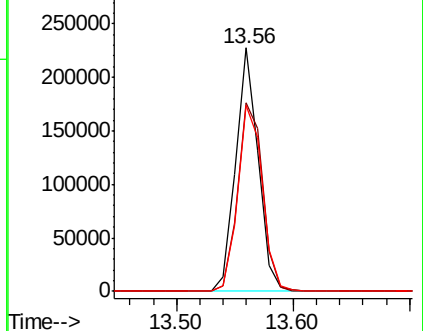
176 76.5 0.0 174.4



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

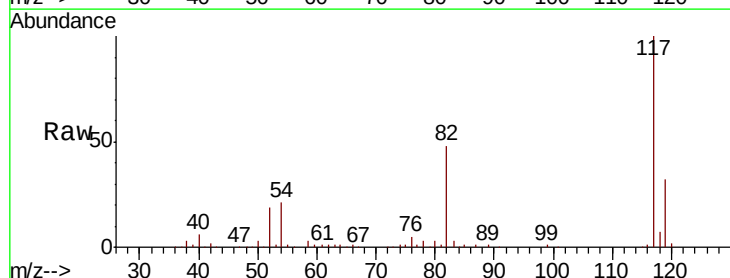
Tgt Ion: 117 Resp: 699719

Ion Ratio Lower Upper

117 100

82 47.9 36.2 54.2

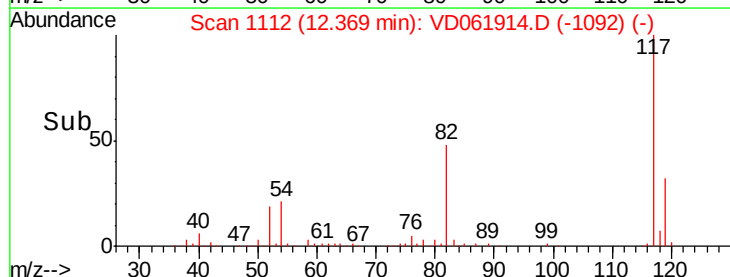
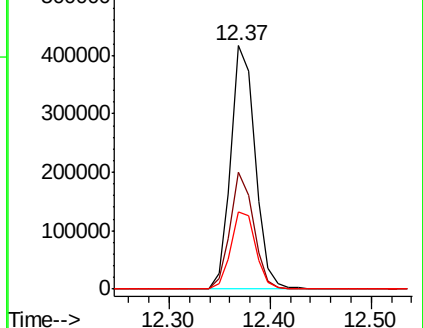
119 31.8 26.2 39.4

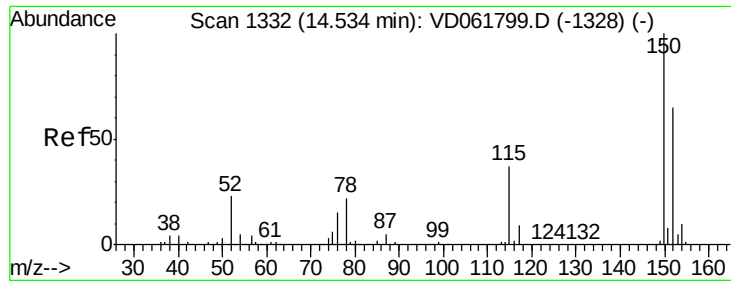


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

Instrument :

MSVOA\_D

ClientSampleId :

TP1-D

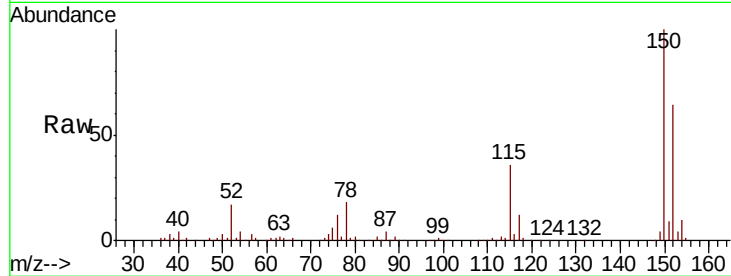
Tgt Ion:152 Resp: 340256

Ion Ratio Lower Upper

152 100

115 56.4 30.9 92.7

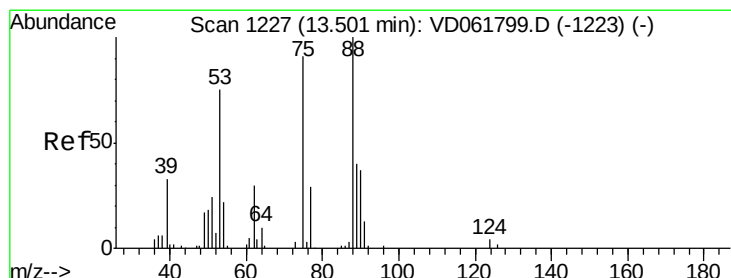
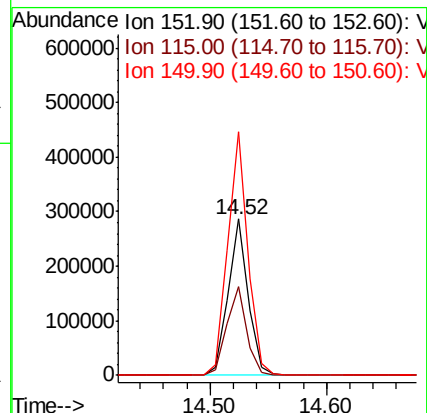
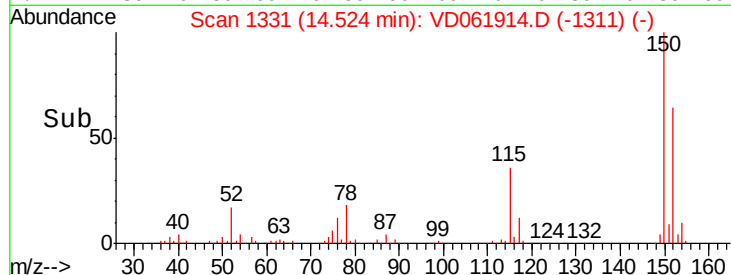
150 155.7 0.0 314.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 79.790 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061914.D

Acq: 19 Apr 2019 17:12

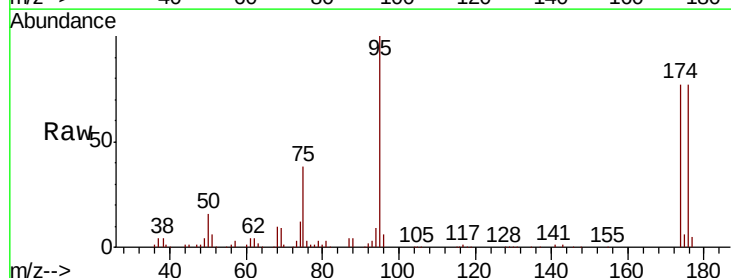
Tgt Ion: 75 Resp: 118633

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

