

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\  
 Data File : VD058336.D  
 Acq On : 23 Jun 2018 11:47  
 Operator : VA/AP  
 Sample : J3642-05  
 Misc : 6.31g/5ml/MSVOA D/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TEST-PIT-2

Quant Time: Jun 25 00:57:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 224013   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 6.70  | 114  | 306379   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.70 | 117  | 212757   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 54813    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 201949   | 89.25 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 178.50% |          |
| 35) Dibromofluoromethane    | 5.57  | 113  | 183886   | 73.74 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 147.48% |          |
| 50) Toluene-d8              | 8.72  | 98   | 298760   | 49.52 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.04%  |          |
| 62) 4-Bromofluorobenzene    | 11.94 | 95   | 83547    | 33.90 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 67.80%  |          |

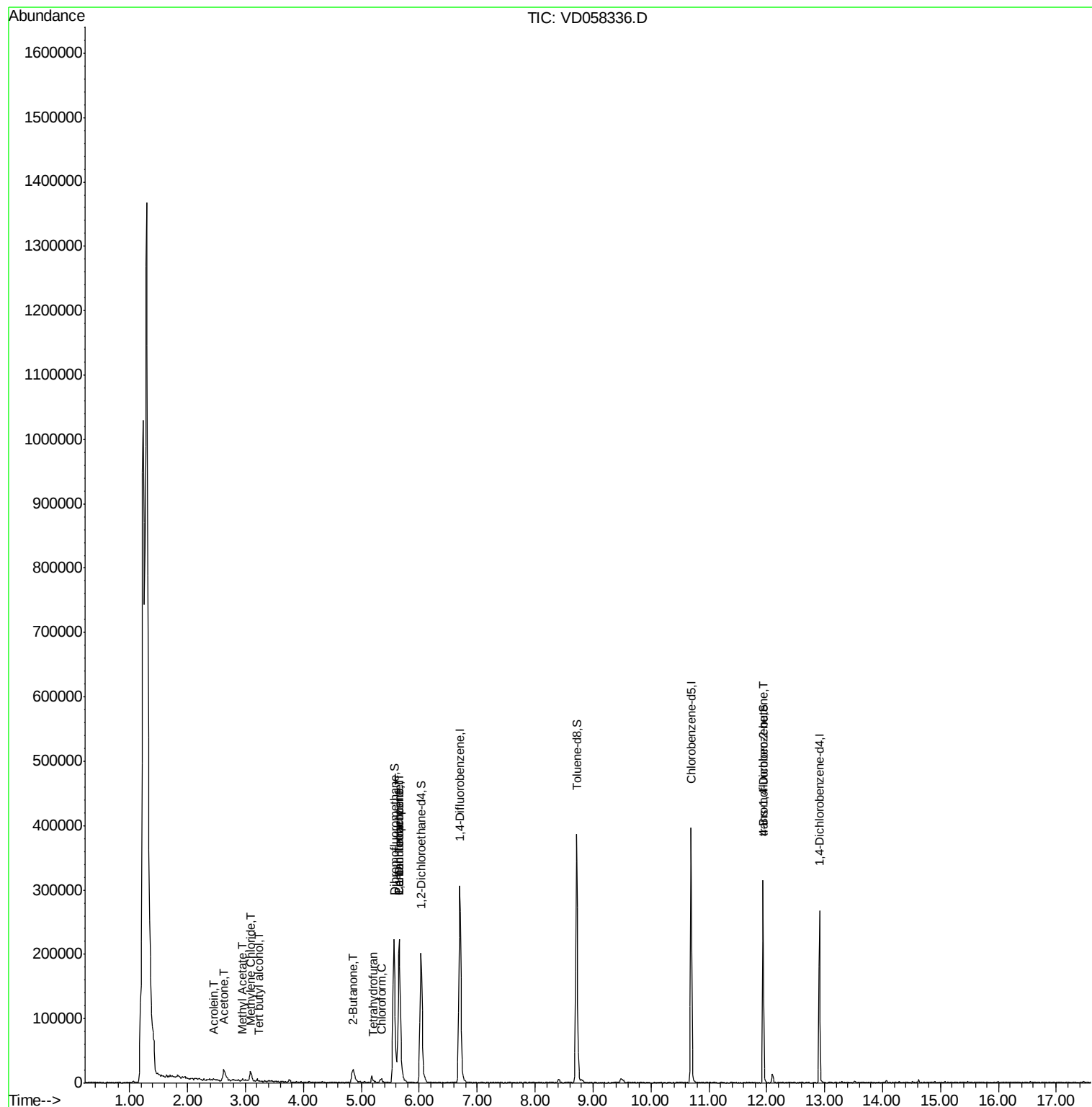
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.23  | 59   | 2588     | 34.679    | ug/l # | 78     |
| 13) Acrolein                   | 2.45  | 56   | 235      | 5.516     | ug/l # | 28     |
| 16) Acetone                    | 2.62  | 43   | 36726    | 118.685   | ug/l   | 100    |
| 18) Methyl Acetate             | 2.95  | 43   | 3101     | 4.699     | ug/l # | 1      |
| 20) Methylene Chloride         | 3.09  | 84   | 7807     | 5.415     | ug/l # | 81     |
| 25) 2-Butanone                 | 4.86  | 43   | 6223     | 9.227     | ug/l # | 60     |
| 29) Tetrahydrofuran            | 5.21  | 42   | 3242     | 9.031     | ug/l # | 59     |
| 30) Chloroform                 | 5.34  | 83   | 6549     | 1.619     | ug/l # | 68     |
| 31) Cyclohexane                | 5.66  | 56   | 4554     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 18881    | 6.230     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 18855    | 6.261     | ug/l # | 11     |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 38926    | 199.432   | ug/l # | 1      |

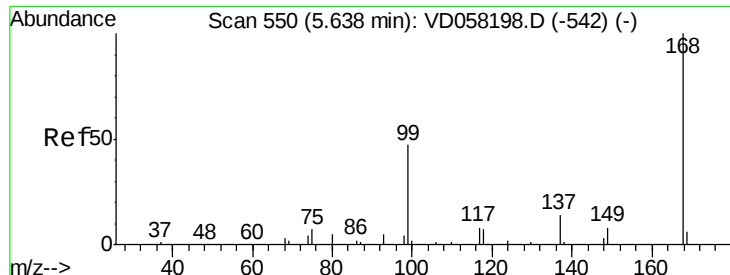
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062218\  
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Misc : 6.31q/5ml/MSVOA D/SOIL  
ALS Vial : 50 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Quant Time: Jun 25 00:57:18 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 20 05:52:56 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

Instrument :

MSVOA\_D

ClientSampleId :

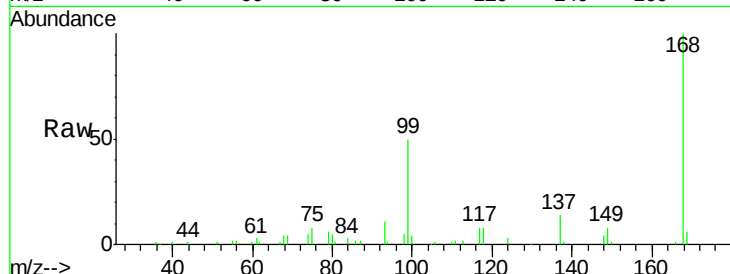
TEST-PIT-2

Tot Ion:168 Resp: 224013

Ion Ratio Lower Upper

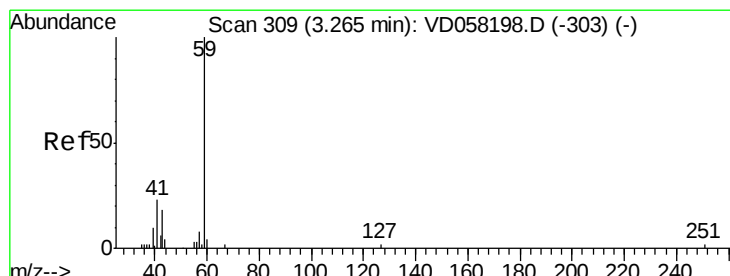
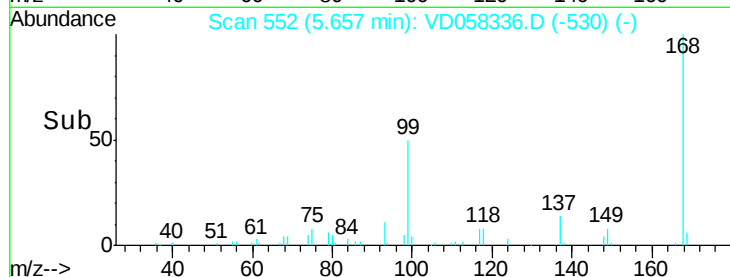
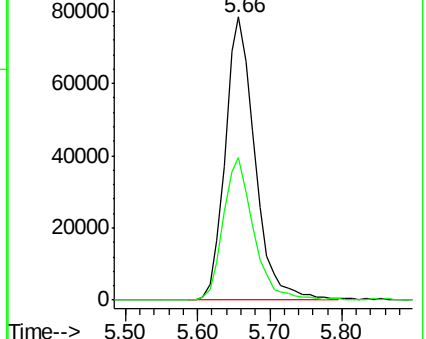
168 100

99 50.4 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 34.679 ug/l

RT: 3.23 min Scan# 305

Delta R.T. -0.04 min

Lab File: VD058336.D

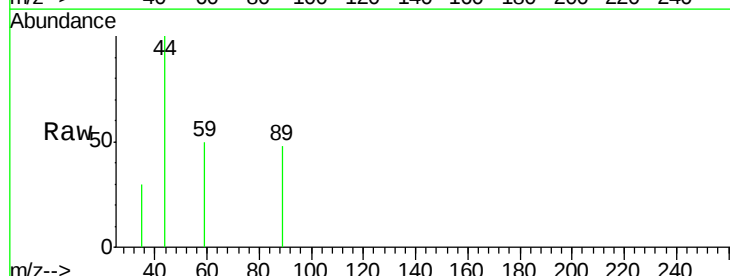
Acq: 23 Jun 2018 11:47

Tgt Ion: 59 Resp: 2588

Ion Ratio Lower Upper

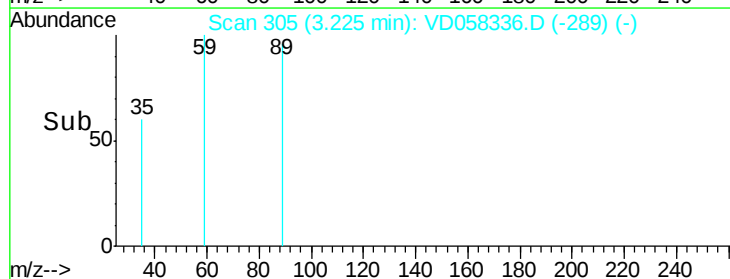
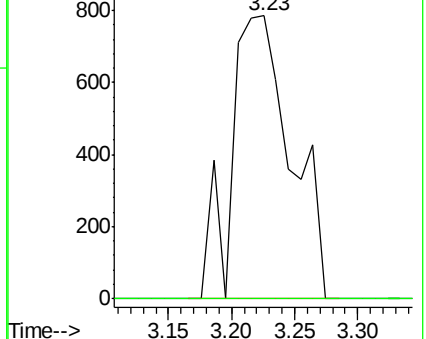
59 100

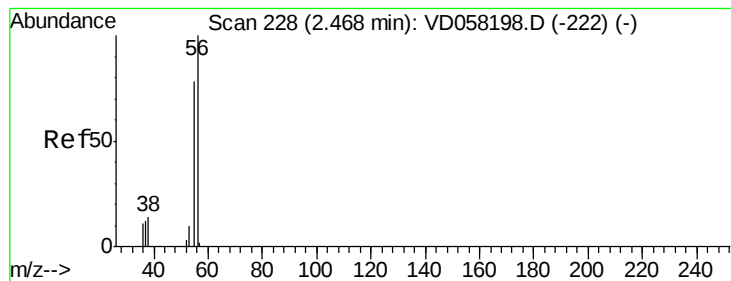
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 5.516 ug/l

RT: 2.45 min Scan# 226

Delta R.T. -0.02 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

Instrument :

MSVOA\_D

ClientSampleId :

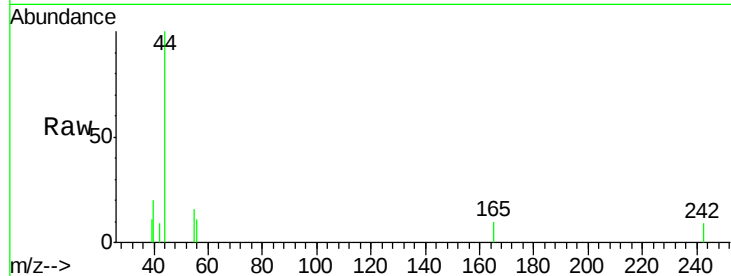
TEST-PIT-2

Tot Ion: 56 Resp: 235

Ion Ratio Lower Upper

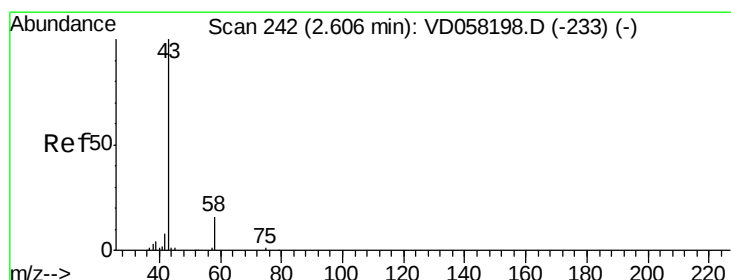
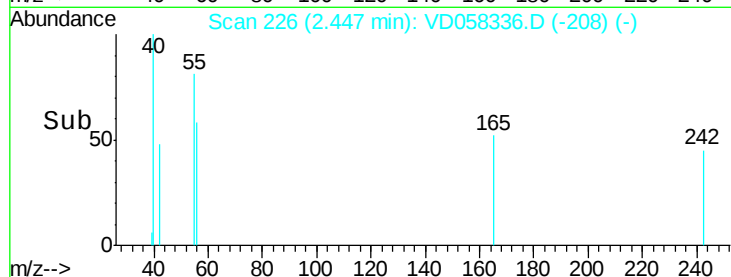
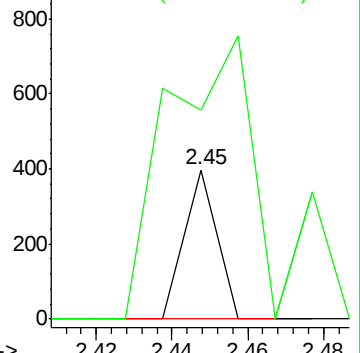
56 100

55 140.2 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 118.685 ug/l

RT: 2.62 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058336.D

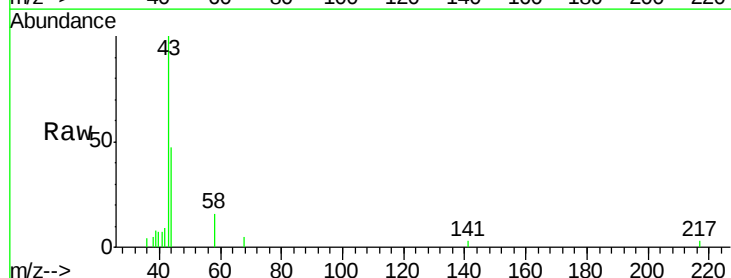
Acq: 23 Jun 2018 11:47

Tgt Ion: 43 Resp: 36726

Ion Ratio Lower Upper

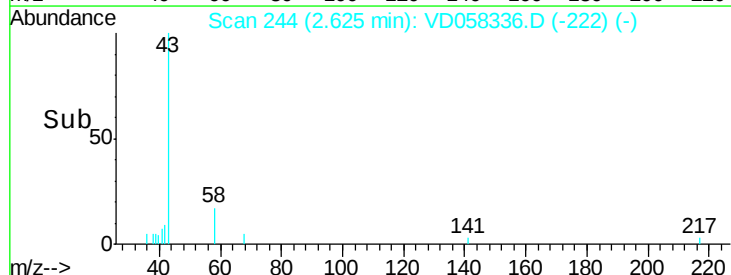
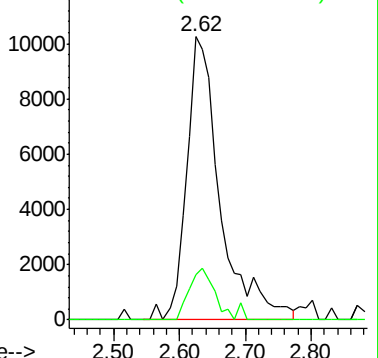
43 100

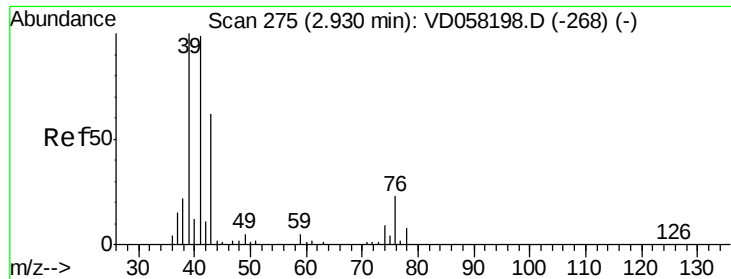
58 16.1 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

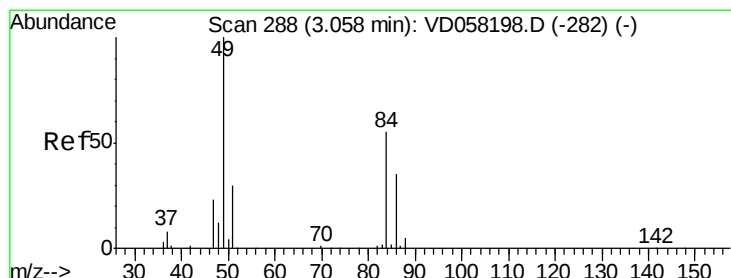
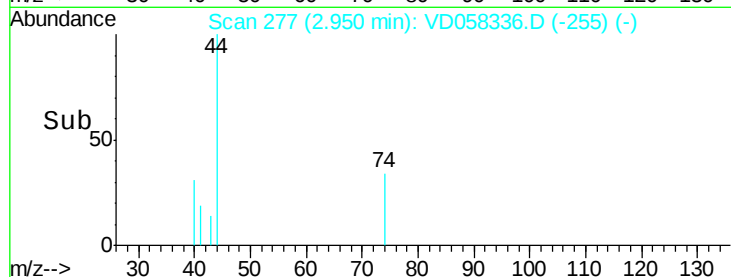
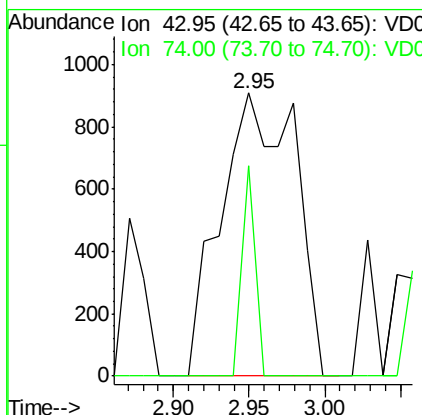
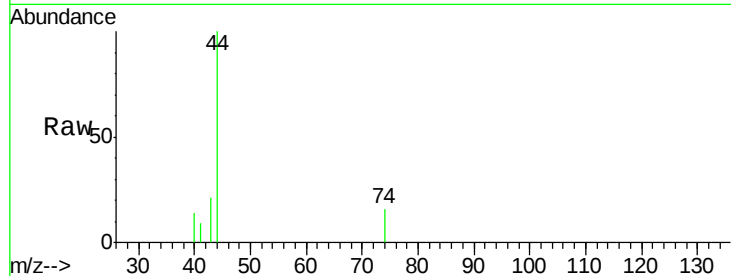




#18  
Methyl Acetate  
Concen: 4.699 ug/l  
RT: 2.95 min Scan# 277  
Delta R.T. 0.02 min  
Lab File: VD058336.D  
Acq: 23 Jun 2018 11:47

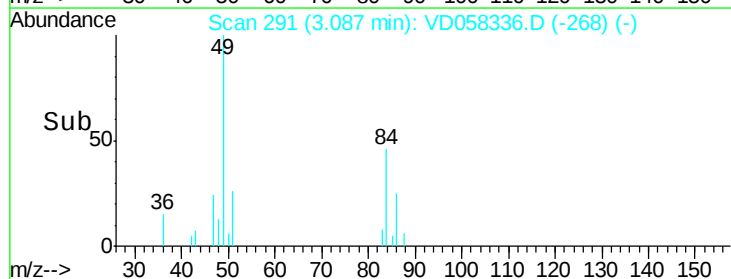
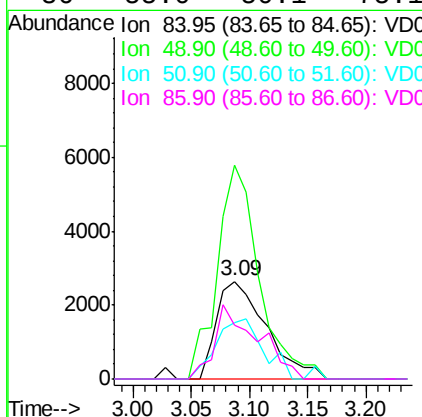
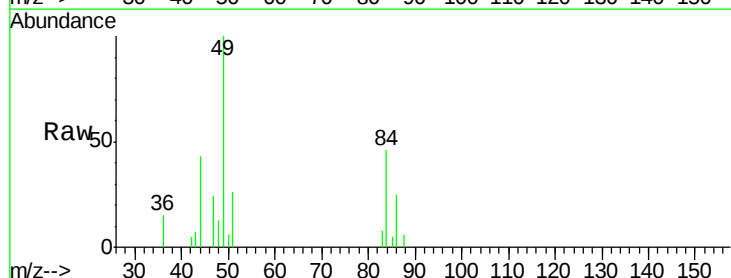
Instrument :  
MSVOA\_D  
ClientSampleId :  
TEST-PIT-2

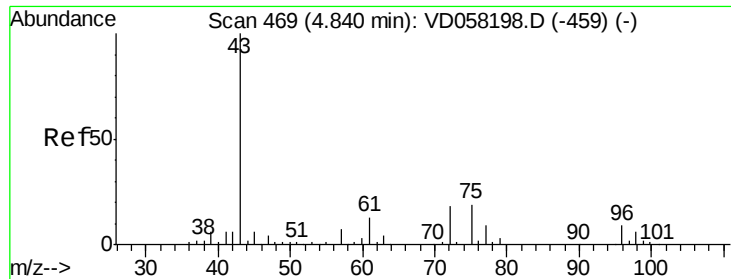
Tot Ion: 43 Resp: 3101  
Ion Ratio Lower Upper  
43 100  
74 74.2 11.7 17.5#



#20  
Methylene Chloride  
Concen: 5.415 ug/l  
RT: 3.09 min Scan# 291  
Delta R.T. 0.03 min  
Lab File: VD058336.D  
Acq: 23 Jun 2018 11:47

Tgt Ion: 84 Resp: 7807  
Ion Ratio Lower Upper  
84 100  
49 218.4 145.0 217.6#  
51 57.6 42.9 64.3  
86 55.0 50.1 75.1





#25

2-Butanone

Concen: 9.227 ug/l

RT: 4.86 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

Instrument :

MSVOA\_D

ClientSampleId :

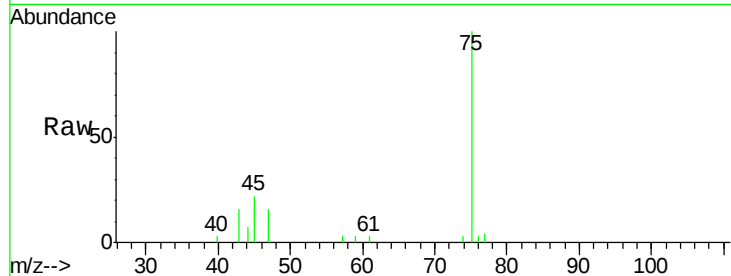
TEST-PIT-2

Tot Ion: 43 Resp: 6223

Ion Ratio Lower Upper

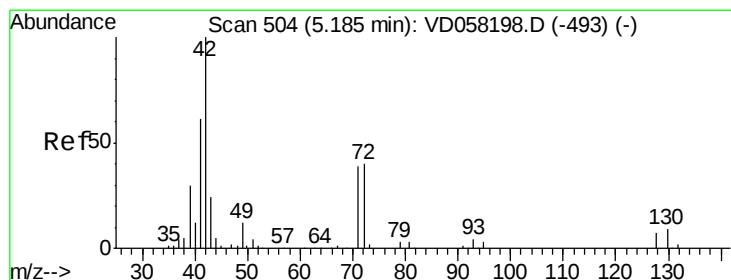
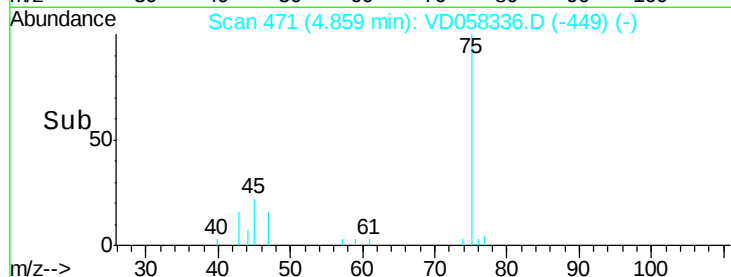
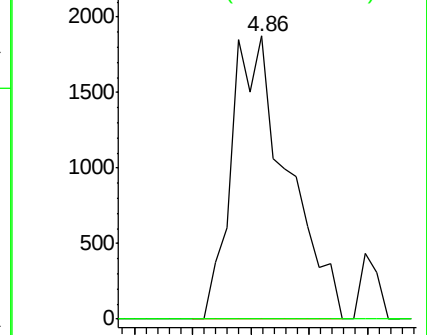
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 9.031 ug/l

RT: 5.21 min Scan# 507

Delta R.T. 0.03 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

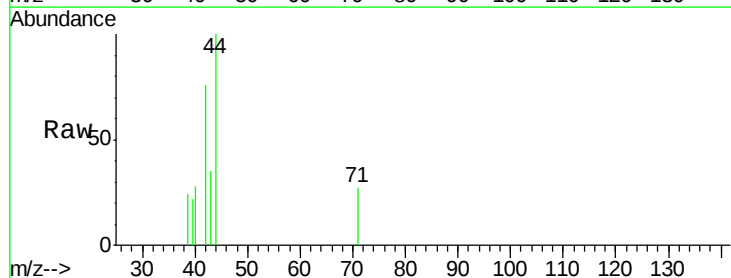
Tgt Ion: 42 Resp: 3242

Ion Ratio Lower Upper

42 100

72 14.2 30.2 45.2#

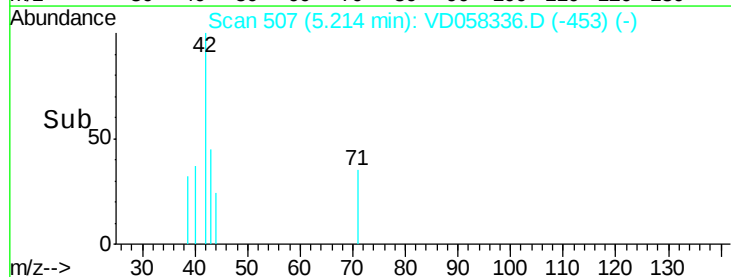
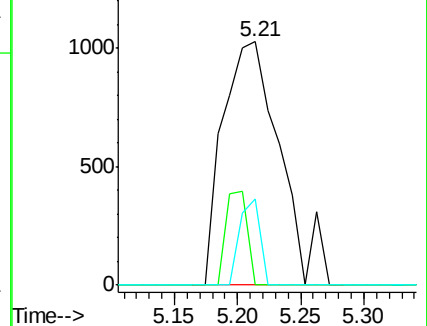
71 12.2 30.1 45.1#

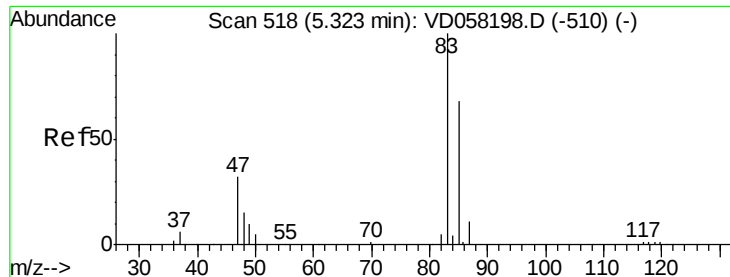


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

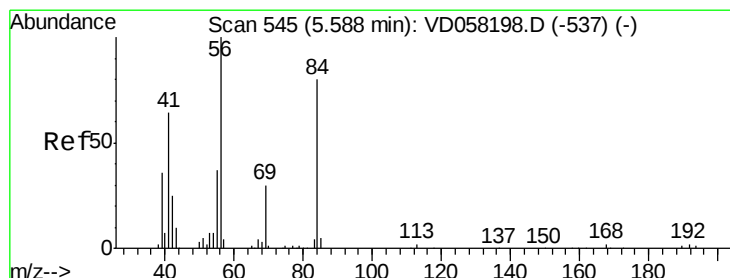
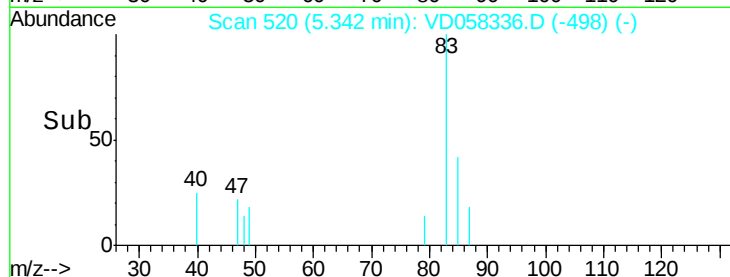
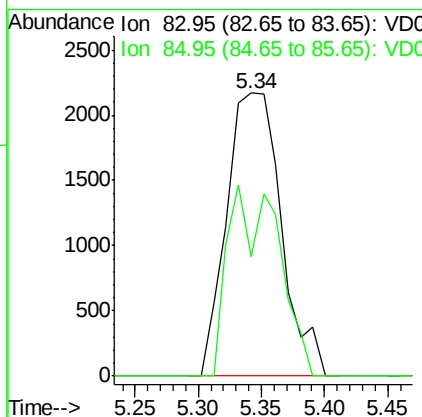
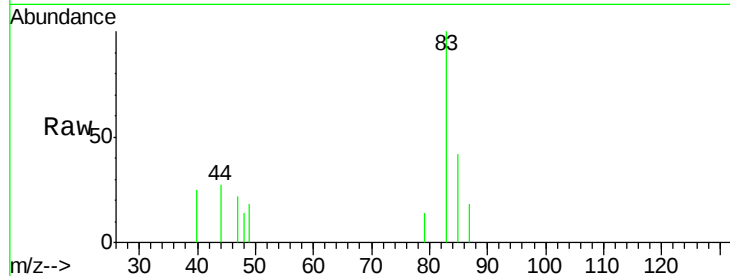




#30  
Chloroform  
Concen: 1.619 ug/l  
RT: 5.34 min Scan# 520  
Delta R.T. 0.02 min  
Lab File: VD058336.D  
Acq: 23 Jun 2018 11:47

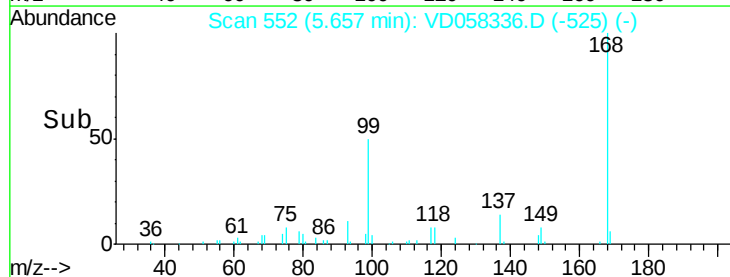
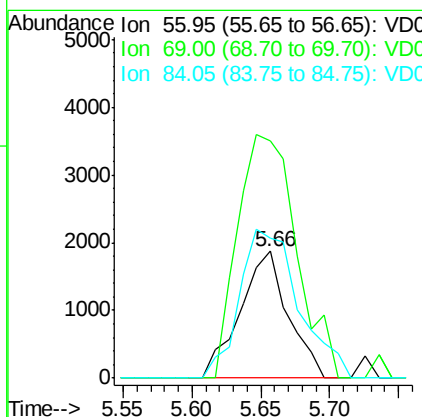
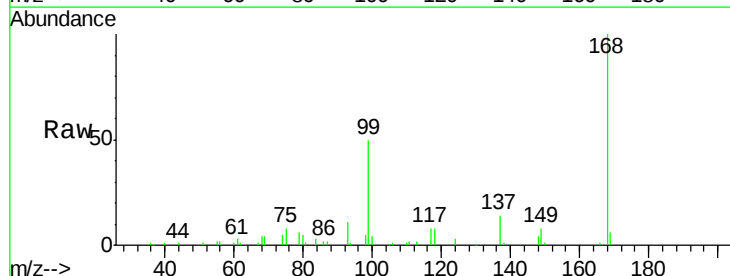
Instrument :  
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TEST-PIT-2

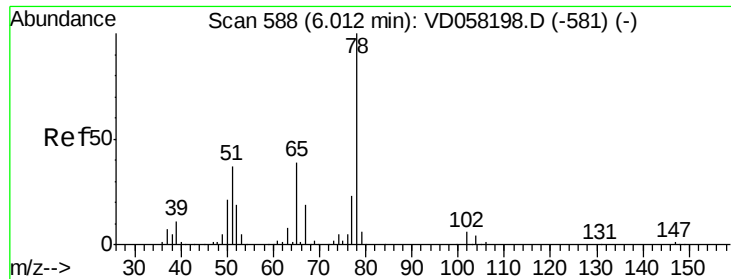
Tot Ion: 83 Resp: 6549  
Ion Ratio Lower Upper  
83 100  
85 42.3 54.8 82.2#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 5.66 min Scan# 552  
Delta R.T. 0.07 min  
Lab File: VD058336.D  
Acq: 23 Jun 2018 11:47

Tgt Ion: 56 Resp: 4554  
Ion Ratio Lower Upper  
56 100  
69 186.7 23.6 35.4#  
84 110.2 65.2 97.8#

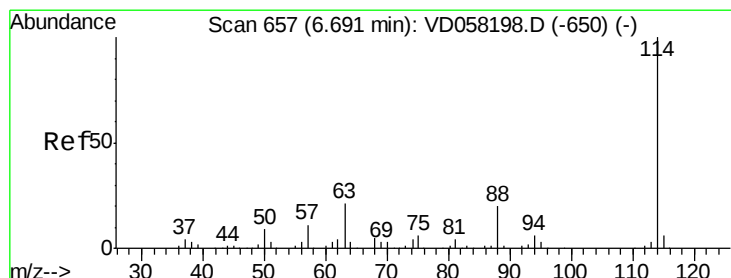
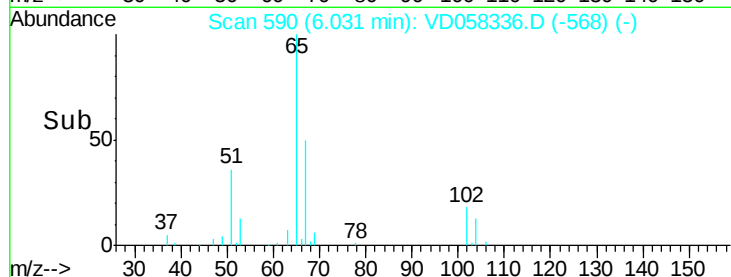
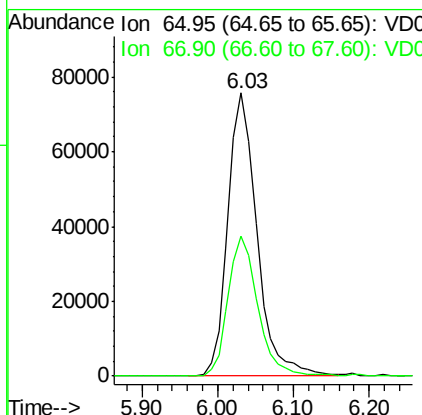
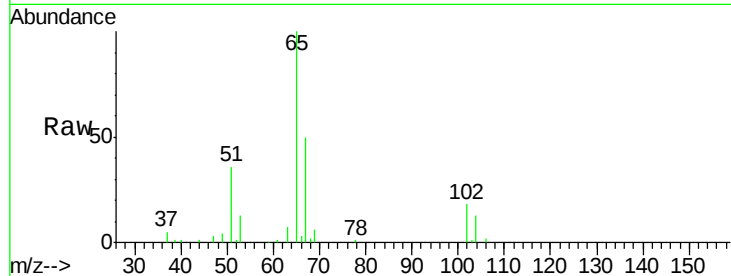




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 6.03 min Scan# 590  
 Delta R.T. 0.02 min  
 Lab File: VD058336.D  
 Acq: 23 Jun 2018 11:47

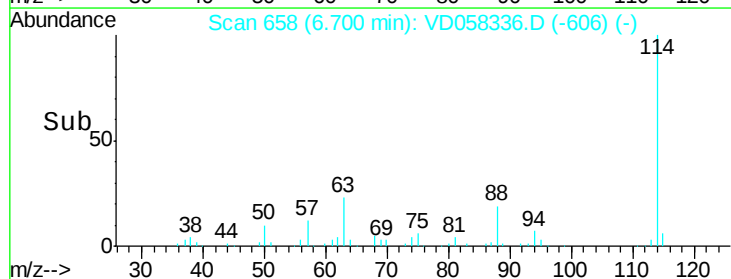
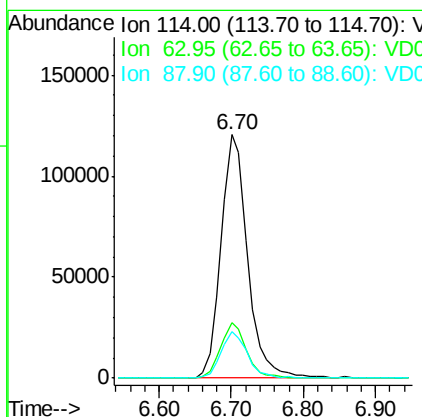
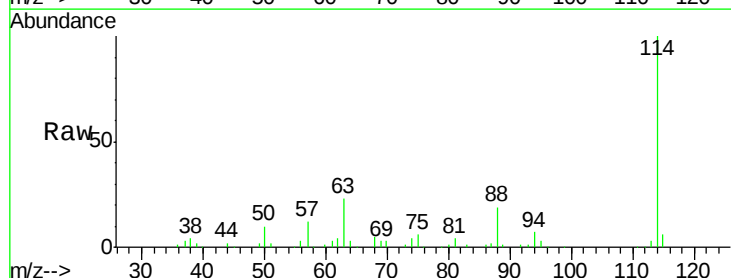
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TEST-PIT-2

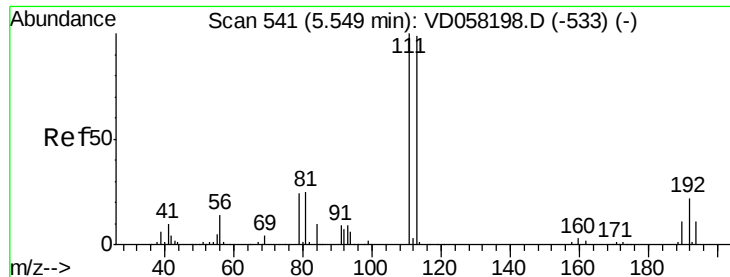
Tot Ion: 65 Resp: 201949  
 Ion Ratio Lower Upper  
 65 100  
 67 49.6 0.0 97.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.70 min Scan# 658  
 Delta R.T. 0.01 min  
 Lab File: VD058336.D  
 Acq: 23 Jun 2018 11:47

Tgt Ion: 114 Resp: 306379  
 Ion Ratio Lower Upper  
 114 100  
 63 23.0 0.0 42.6  
 88 19.3 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

Instrument :

MSVOA\_D

ClientSampleId :

TEST-PIT-2

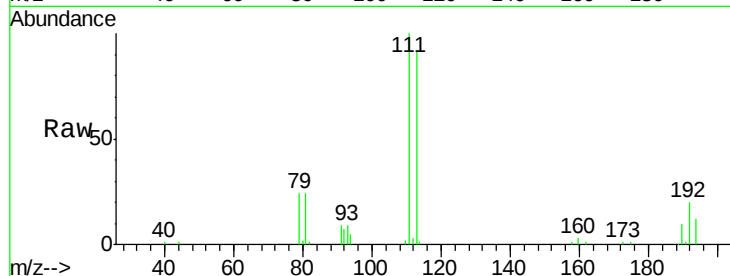
Tot Ion:113 Resp: 183886

Ion Ratio Lower Upper

113 100

111 108.9 80.6 121.0

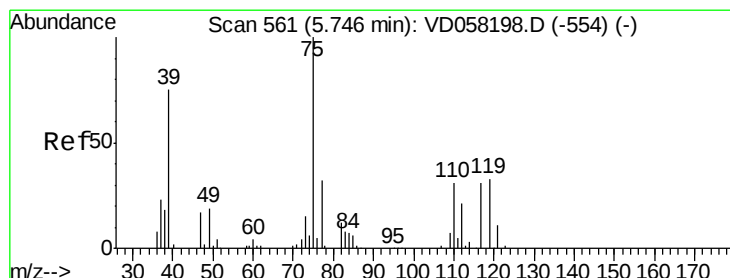
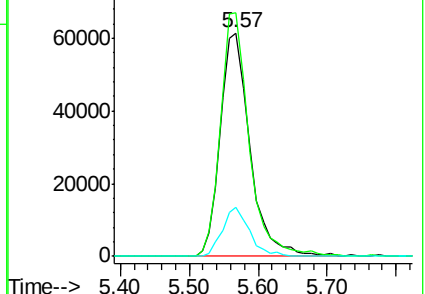
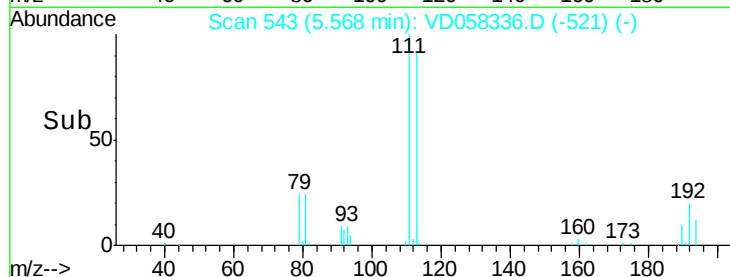
192 21.7 17.8 26.6



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: 6.230 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.09 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

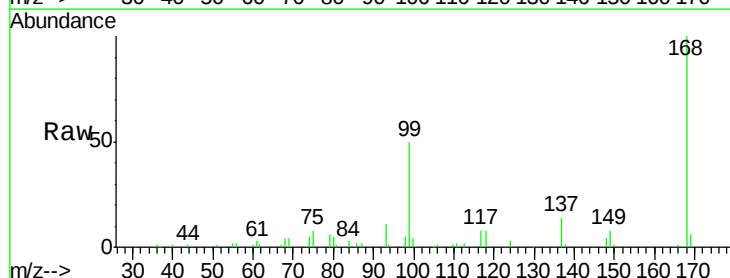
Tgt Ion: 75 Resp: 18881

Ion Ratio Lower Upper

75 100

110 6.9 15.4 46.4#

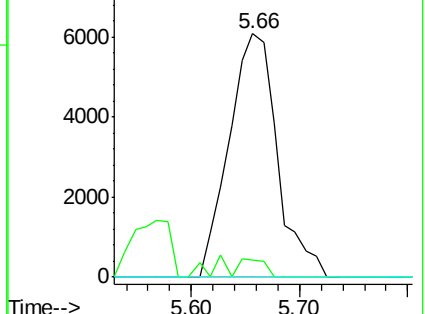
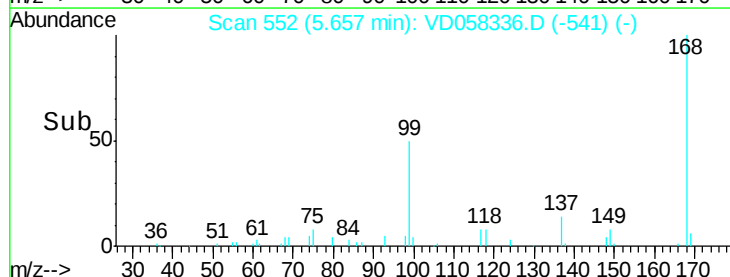
77 0.0 25.4 38.2#

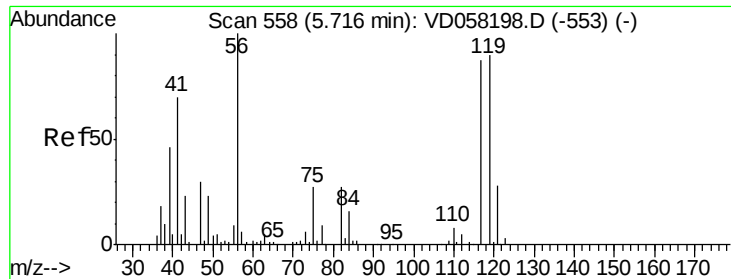


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.261 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

Instrument :

MSVOA\_D

ClientSampleId :

TEST-PIT-2

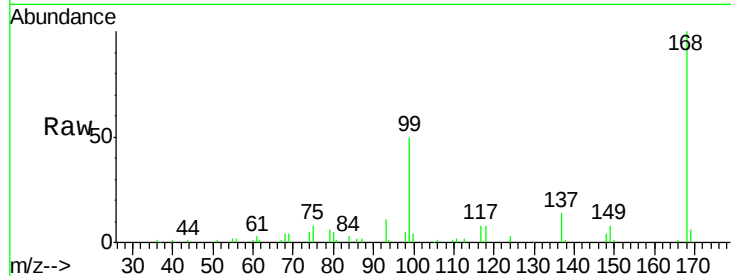
Tot Ion:117 Resp: 18855

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

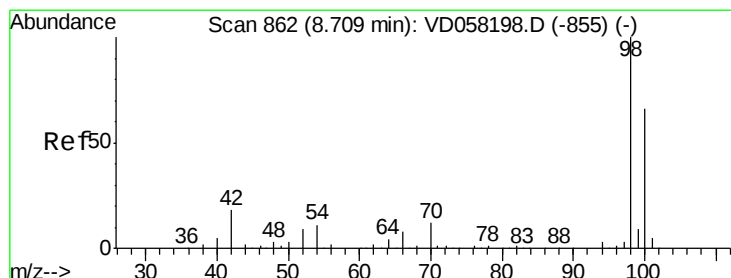
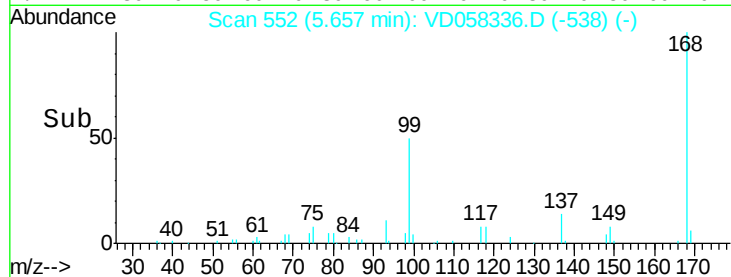
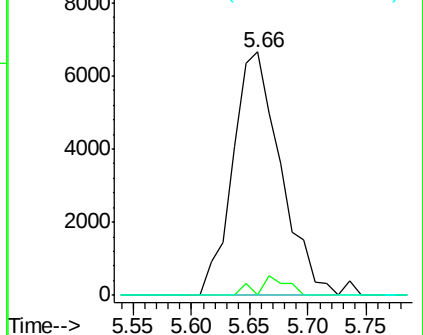
121 0.0 25.0 37.6#



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: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058336.D

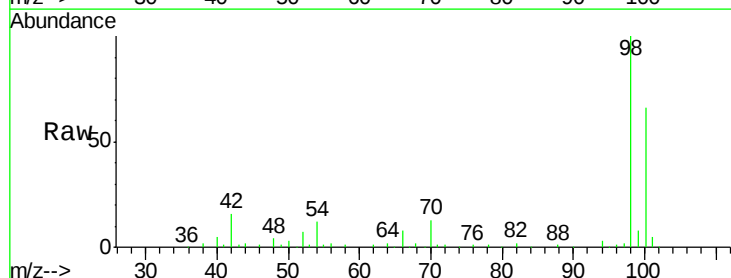
Acq: 23 Jun 2018 11:47

Tgt Ion: 98 Resp: 298760

Ion Ratio Lower Upper

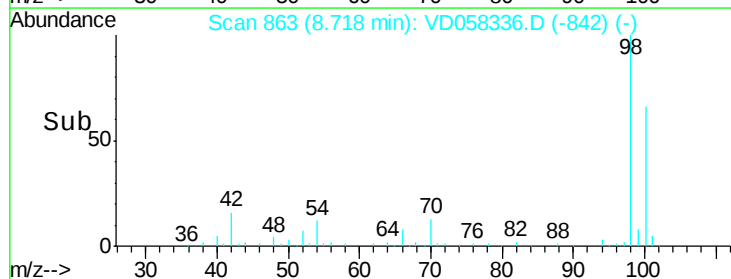
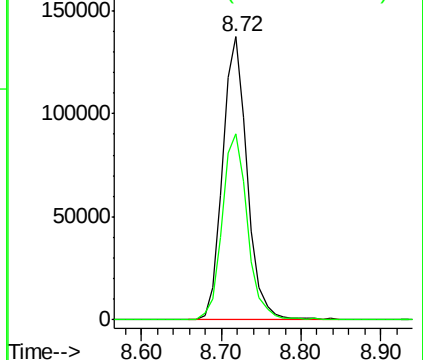
98 100

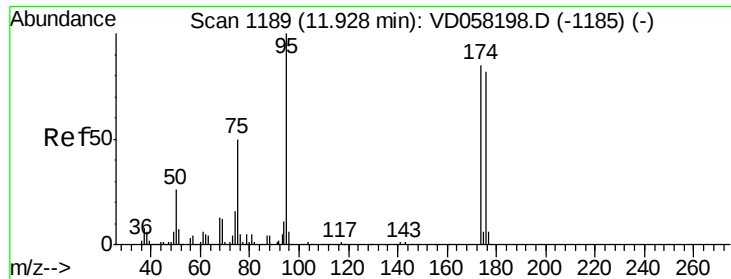
100 65.9 53.6 80.4



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: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

Instrument :

MSVOA\_D

ClientSampleId :

TEST-PIT-2

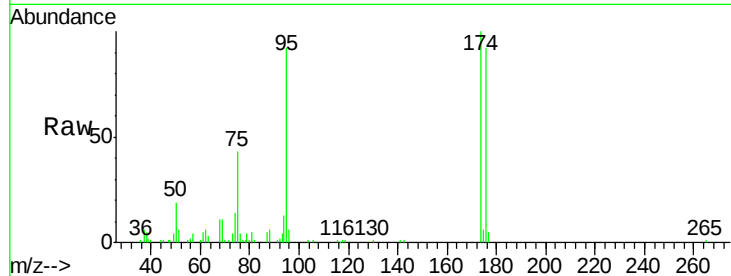
Tot Ion: 95 Resp: 83547

Ion Ratio Lower Upper

95 100

174 108.6 0.0 170.2

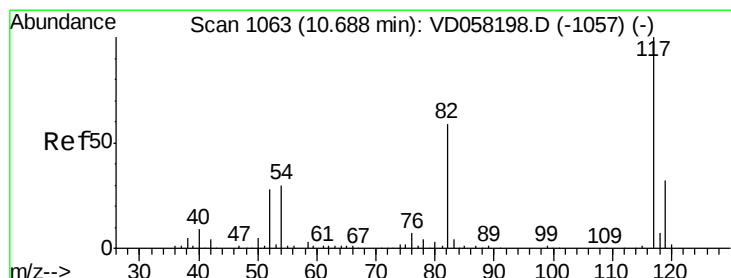
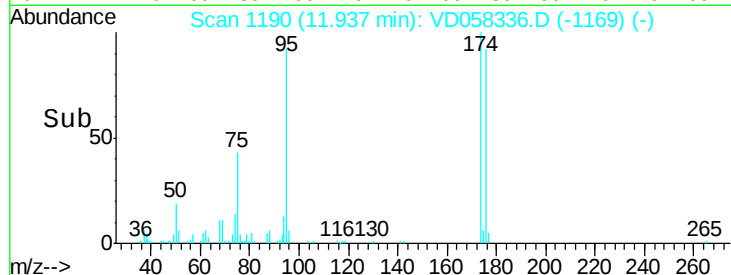
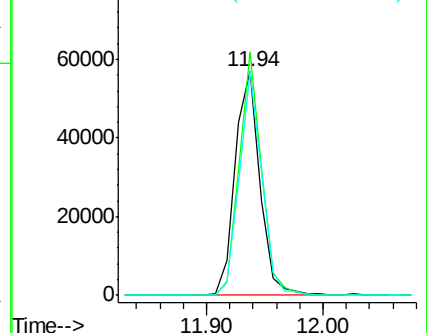
176 100.3 0.0 164.6



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

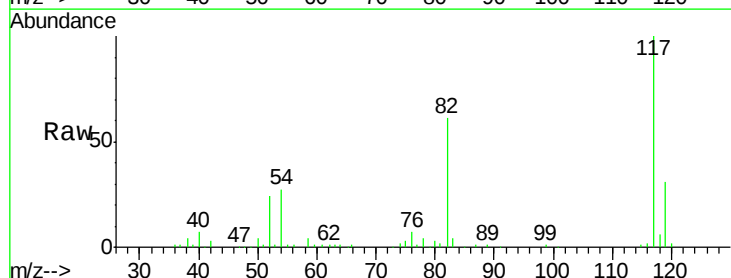
Tgt Ion: 117 Resp: 212757

Ion Ratio Lower Upper

117 100

82 61.2 47.0 70.6

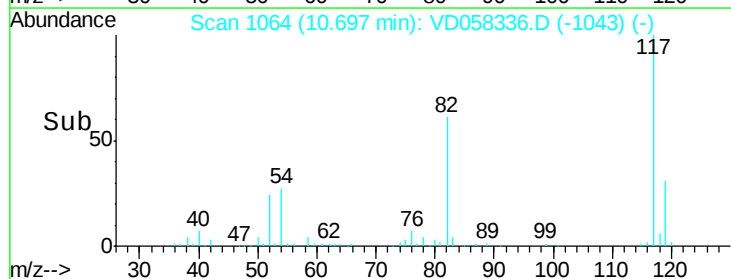
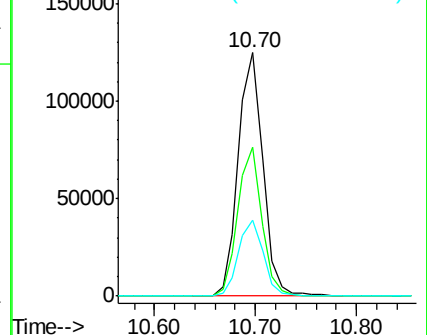
119 31.2 25.3 37.9

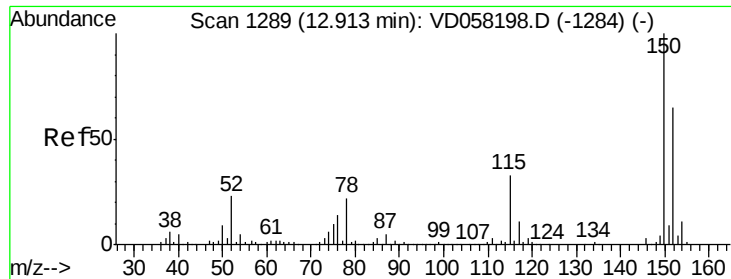


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

Instrument :

MSVOA\_D

ClientSampleId :

TEST-PIT-2

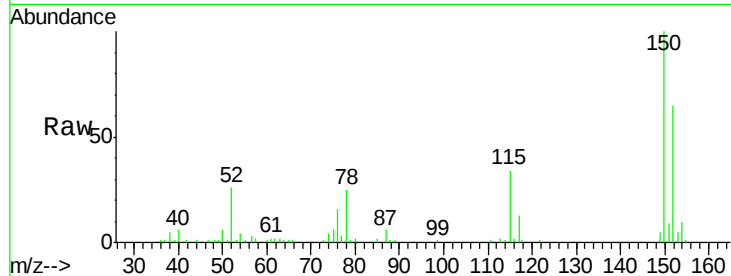
Tot Ion:152 Resp: 54813

Ion Ratio Lower Upper

152 100

115 52.7 25.1 75.3

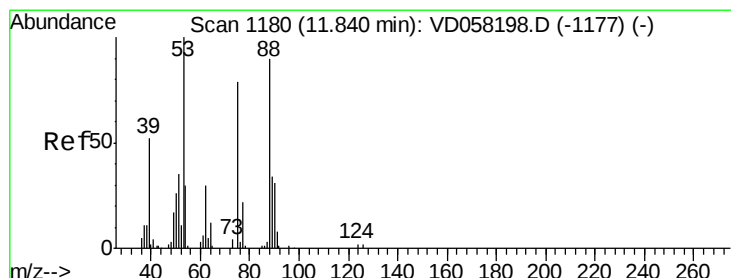
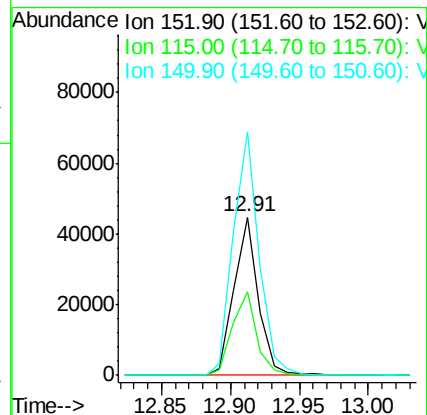
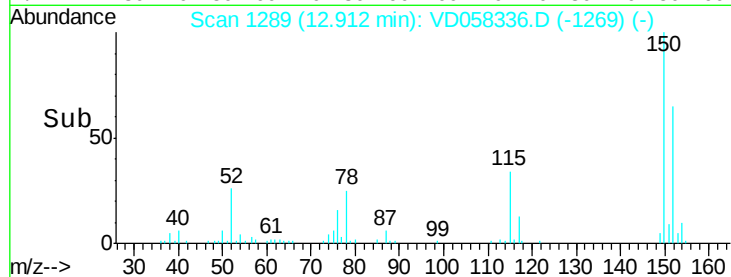
150 153.8 0.0 308.8



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: 199.432 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058336.D

Acq: 23 Jun 2018 11:47

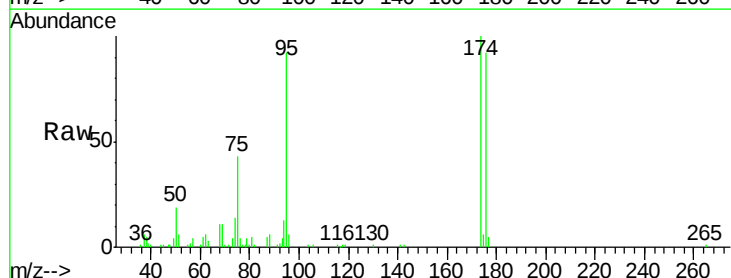
Tgt Ion: 75 Resp: 38926

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

89 0.0 34.6 52.0#



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

