

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD060718\  
 Data File : VD057973.D  
 Acq On : 7 Jun 2018 15:54  
 Operator : JC/SY  
 Sample : J3320-04  
 Misc : 6.26g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S39-0179

Quant Time: Jun 08 06:48:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 08:57:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 979297   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 1266834  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 985042   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 442593   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.01  | 65   | 365398   | 37.32 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 74.64% |          |
| 35) Dibromofluoromethane    | 5.54  | 113  | 384011   | 39.18 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 78.36% |          |
| 50) Toluene-d8              | 8.70  | 98   | 875901   | 37.59 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 75.18% |          |
| 62) 4-Bromofluorobenzene    | 11.92 | 95   | 356662   | 35.09 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 70.18% |          |

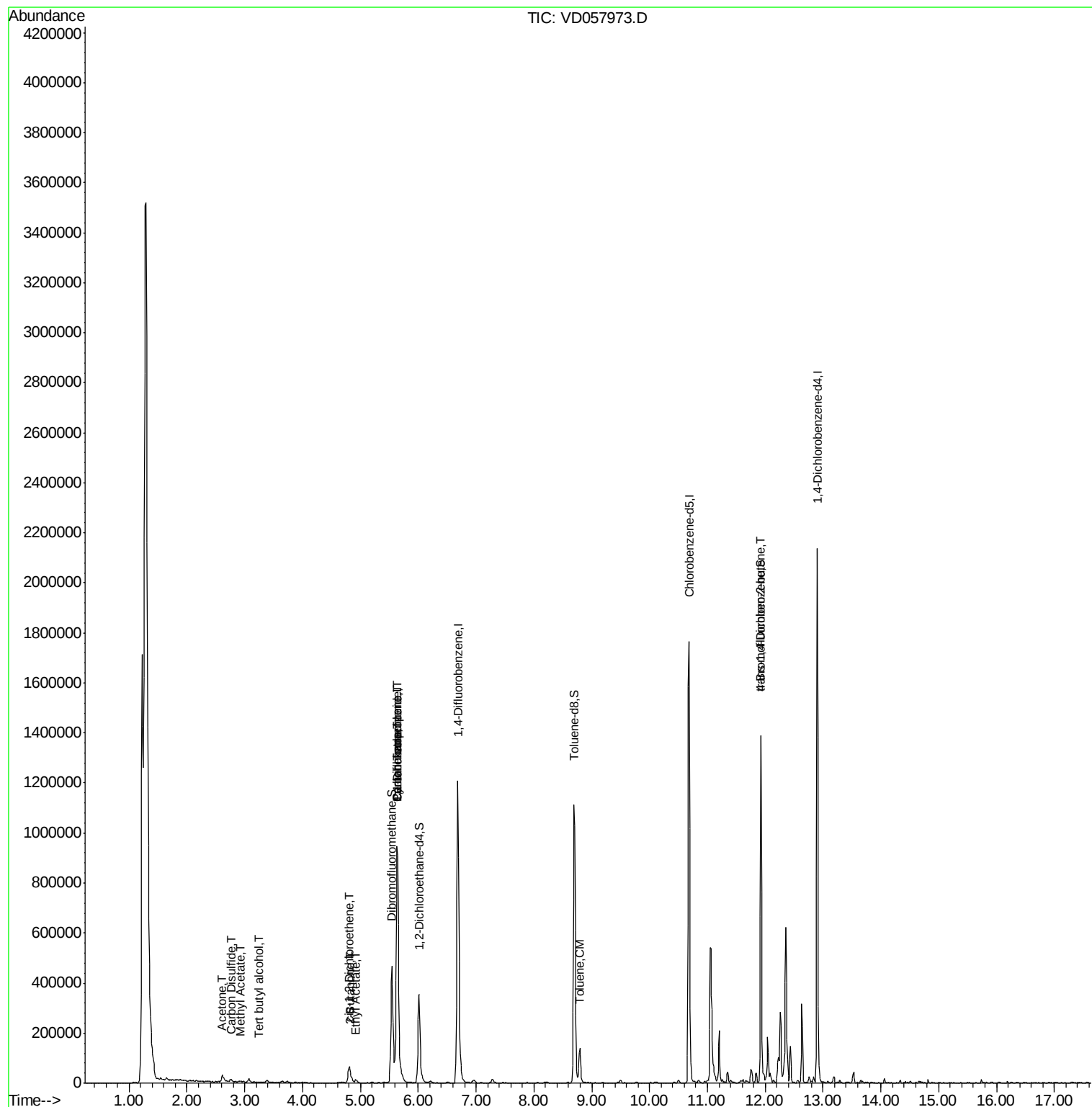
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.25  | 59   | 377      | 1.437     | ug/l # | 74     |
| 16) Acetone                    | 2.61  | 43   | 55945    | 39.662    | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.76  | 76   | 16367    | 1.150     | ug/l # | 91     |
| 18) Methyl Acetate             | 2.93  | 43   | 6212     | 2.277     | ug/l   | 94     |
| 20) Methylene Chloride         | 3.07  | 84   | 6457     | Below Cal |        | 96     |
| 25) 2-Butanone                 | 4.83  | 43   | 29847    | 9.311     | ug/l # | 86     |
| 27) cis-1,2-Dichloroethene     | 4.80  | 96   | 37712    | 3.635     | ug/l   | 81     |
| 31) Cyclohexane                | 5.63  | 56   | 28635    | 1.682     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 79145    | 5.671     | ug/l # | 51     |
| 37) Ethyl Acetate              | 4.91  | 43   | 24260    | 3.186     | ug/l # | 92     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 83841    | 6.095     | ug/l # | 16     |
| 52) Toluene                    | 8.79  | 92   | 67959    | 3.632     | ug/l   | 94     |
| 81) trans-1,4-Dichloro-2-buten | 11.92 | 75   | 168753   | 102.479   | ug/l # | 6      |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 7968     | Below Cal |        | 84     |
| 89) n-Butylbenzene             | 13.18 | 91   | 5494     | Below Cal | #      | 75     |

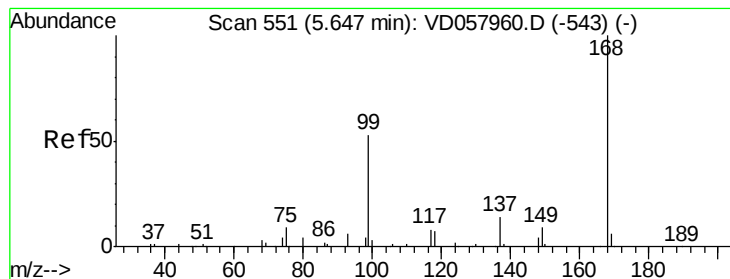
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD060718\  
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Sample : J3320-04  
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ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
S39-0179

Quant Time: Jun 08 06:48:58 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 07 08:57:33 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.01 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

Instrument :

MSVOA\_D

ClientSampleId :

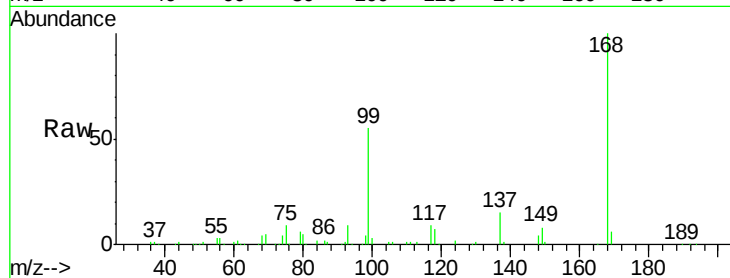
S39-0179

Tgt Ion:168 Resp: 979297

Ion Ratio Lower Upper

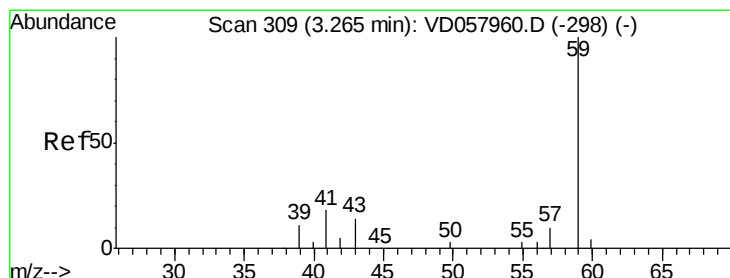
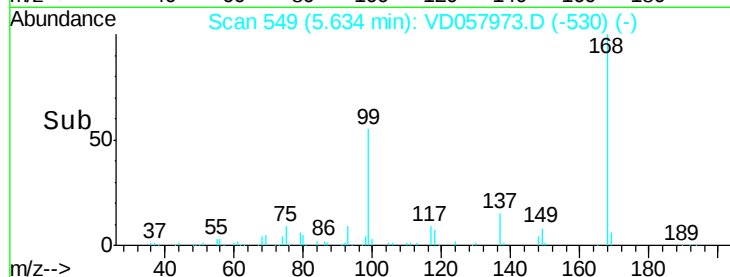
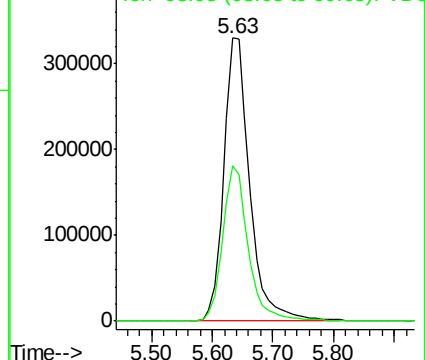
168 100

99 54.9 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.437 ug/l

RT: 3.25 min Scan# 307

Delta R.T. -0.01 min

Lab File: VD057973.D

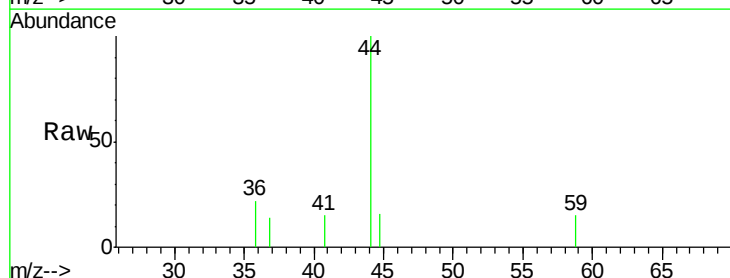
Acq: 7 Jun 2018 15:54

Tgt Ion: 59 Resp: 377

Ion Ratio Lower Upper

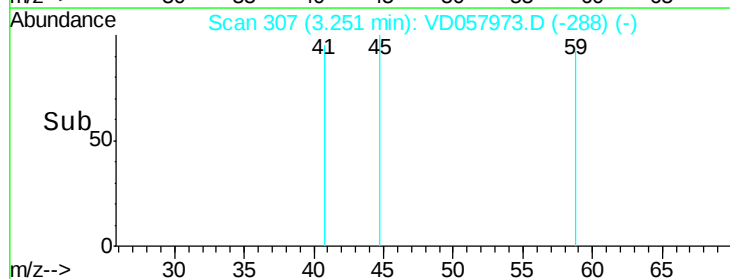
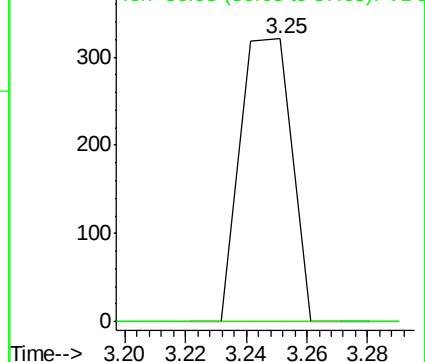
59 100

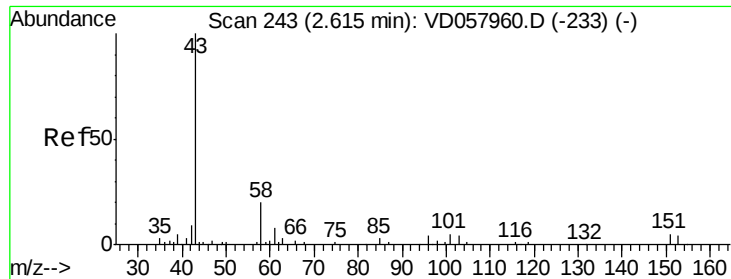
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 39.662 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.00 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

Instrument :

MSVOA\_D

ClientSampleId :

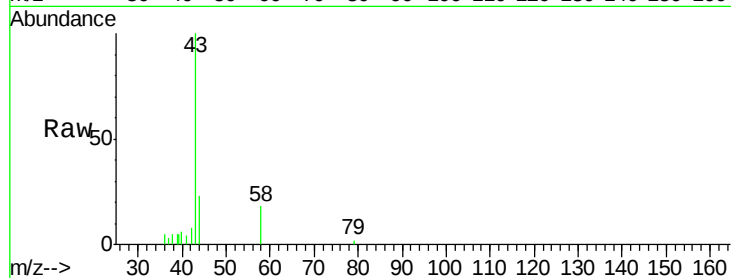
S39-0179

Tgt Ion: 43 Resp: 55945

Ion Ratio Lower Upper

43 100

58 17.8 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.61

20000

15000

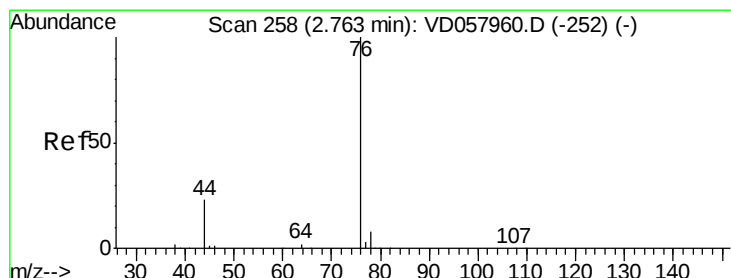
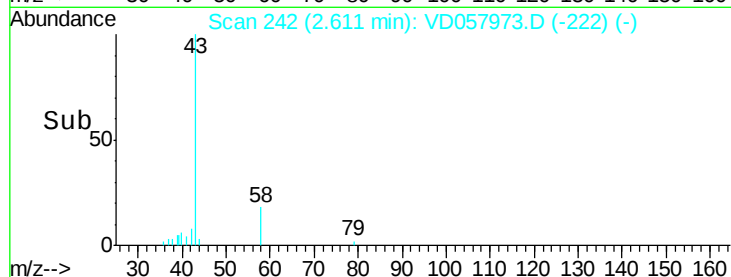
10000

5000

0

Time-->

2.50 2.60 2.70



#17

Carbon Disulfide

Concen: 1.150 ug/l

RT: 2.76 min Scan# 257

Delta R.T. -0.00 min

Lab File: VD057973.D

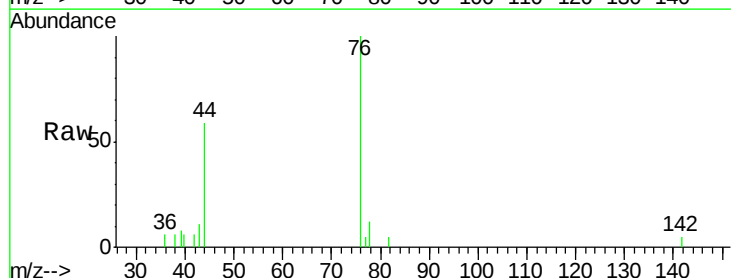
Acq: 7 Jun 2018 15:54

Tgt Ion: 76 Resp: 16367

Ion Ratio Lower Upper

76 100

78 11.6 6.7 10.1#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

2.76

8000

6000

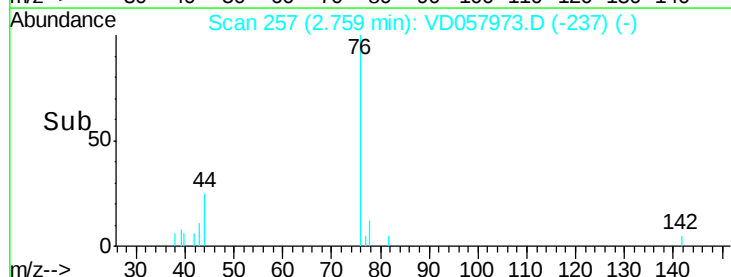
4000

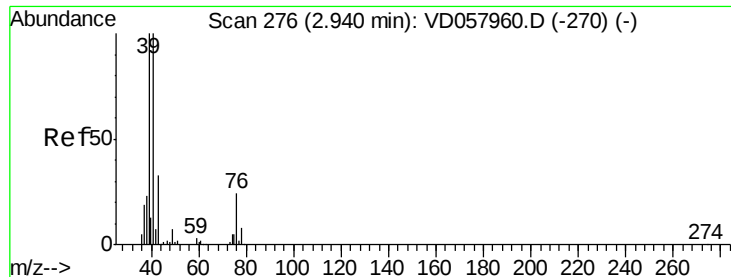
2000

0

Time-->

2.70 2.75 2.80 2.85

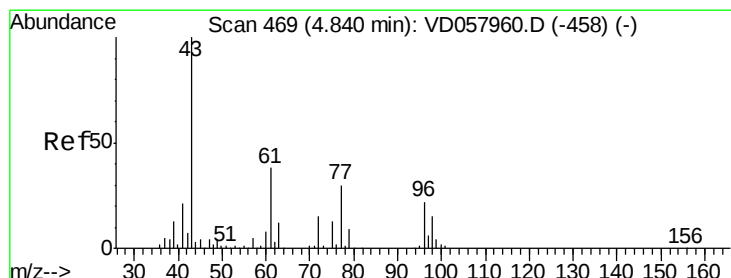
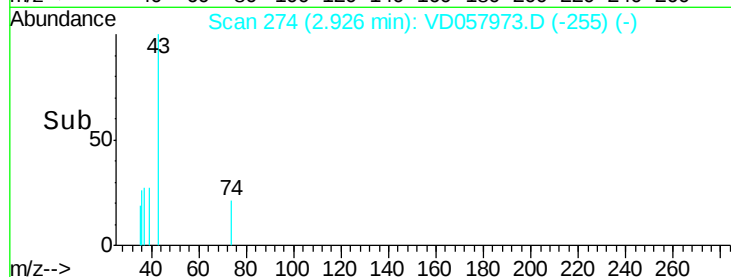
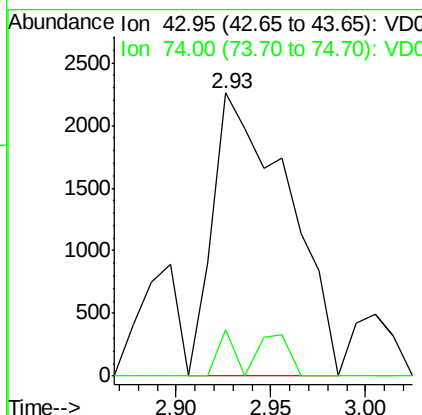
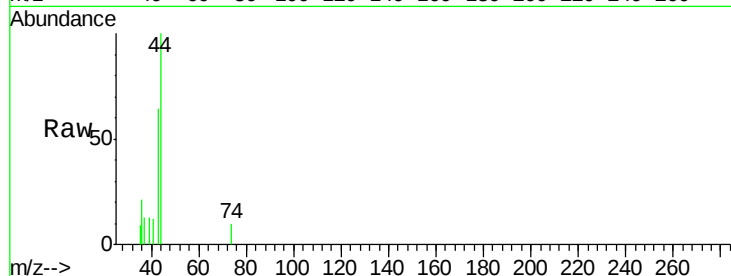




#18  
Methyl Acetate  
Concen: 2.277 ug/l  
RT: 2.93 min Scan# 274  
Delta R.T. -0.01 min  
Lab File: VD057973.D  
Acq: 7 Jun 2018 15:54

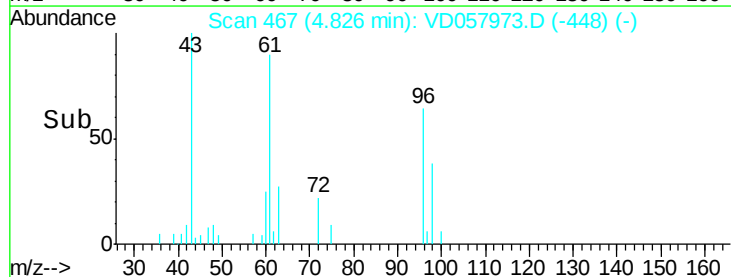
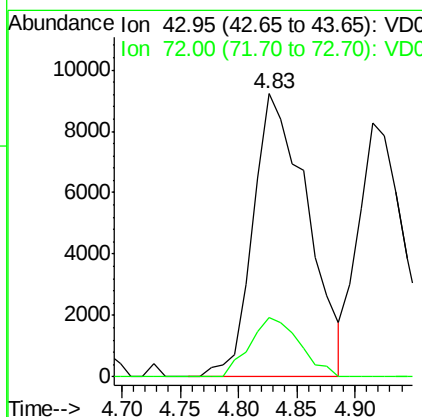
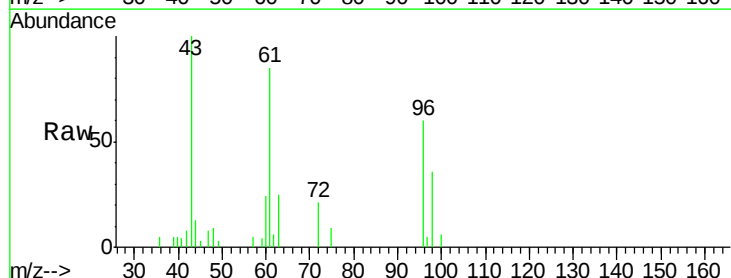
Instrument :  
MSVOA\_D  
ClientSampleId :  
S39-0179

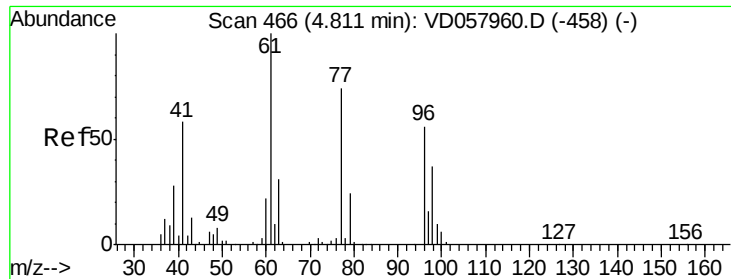
Tgt Ion: 43 Resp: 6212  
Ion Ratio Lower Upper  
43 100  
74 16.4 11.2 16.8



#25  
2-Butanone  
Concen: 9.311 ug/l  
RT: 4.83 min Scan# 467  
Delta R.T. -0.01 min  
Lab File: VD057973.D  
Acq: 7 Jun 2018 15:54

Tgt Ion: 43 Resp: 29847  
Ion Ratio Lower Upper  
43 100  
72 20.8 12.0 18.0#



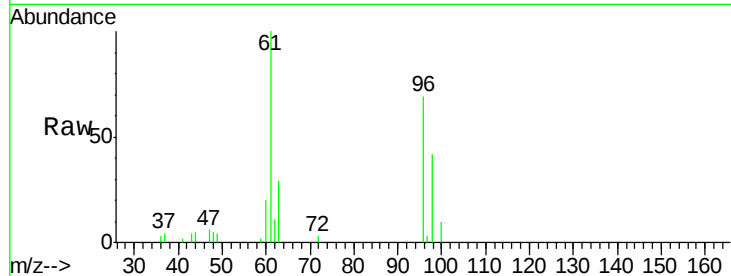


#27

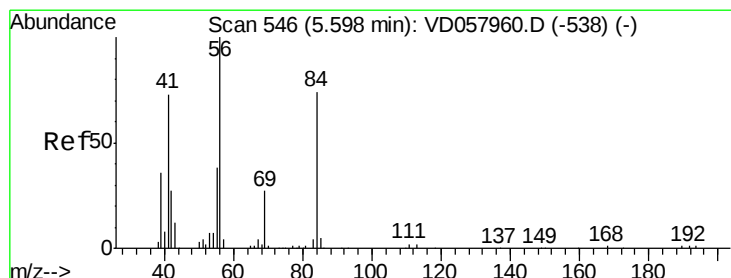
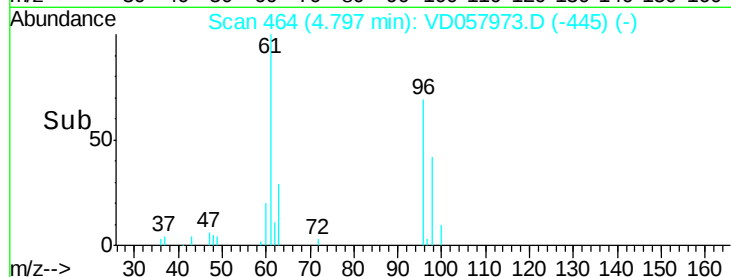
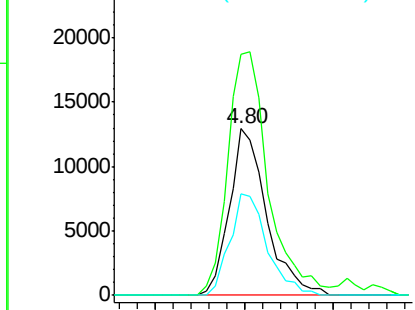
cis-1,2-Dichloroethene  
 Concen: 3.635 ug/l  
 RT: 4.80 min Scan# 464  
 Delta R.T. -0.01 min  
 Lab File: VD057973.D  
 Acq: 7 Jun 2018 15:54

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S39-0179

Tgt Ion: 96 Resp: 37712  
 Ion Ratio Lower Upper  
 96 100  
 61 144.2 0.0 355.0  
 98 60.8 0.0 129.6



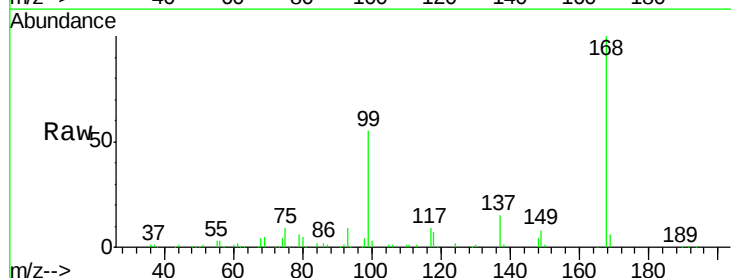
Abundance Ion 95.90 (95.60 to 96.60): VDC  
 Ion 60.95 (60.65 to 61.65): VDC  
 Ion 97.85 (97.55 to 98.55): VDC



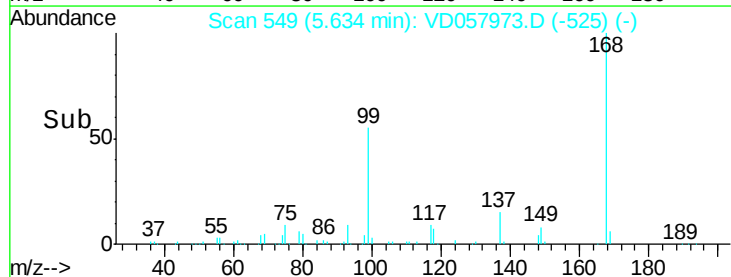
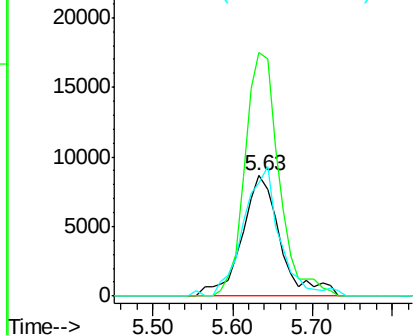
#31

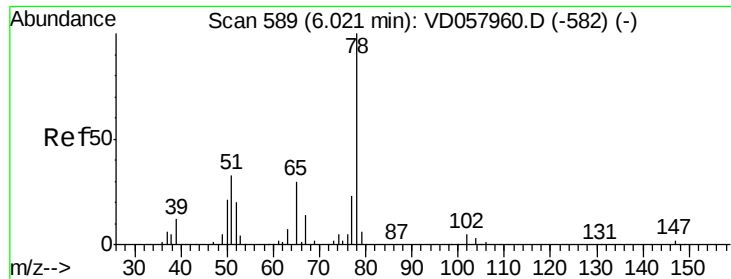
Cyclohexane  
 Concen: 1.682 ug/l  
 RT: 5.63 min Scan# 549  
 Delta R.T. 0.04 min  
 Lab File: VD057973.D  
 Acq: 7 Jun 2018 15:54

Tgt Ion: 56 Resp: 28635  
 Ion Ratio Lower Upper  
 56 100  
 69 202.7 21.5 32.3#  
 84 94.4 61.0 91.6#



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: Below ug/l

RT: 6.01 min Scan# 587

Delta R.T. -0.01 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

Instrument :

MSVOA\_D

ClientSampleId :

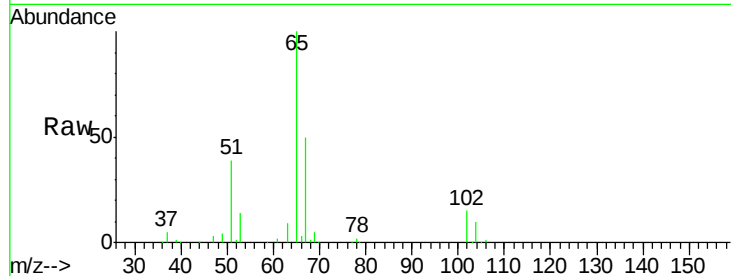
S39-0179

Tgt Ion: 65 Resp: 365398

Ion Ratio Lower Upper

65 100

67 50.2 0.0 94.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.01

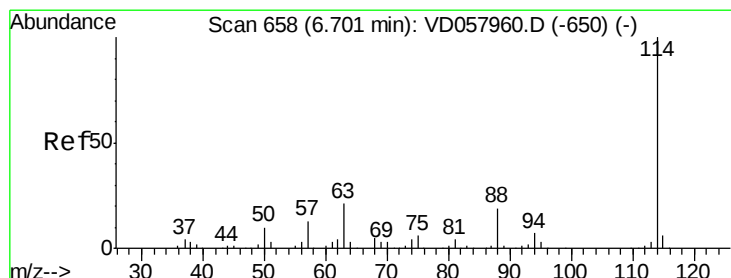
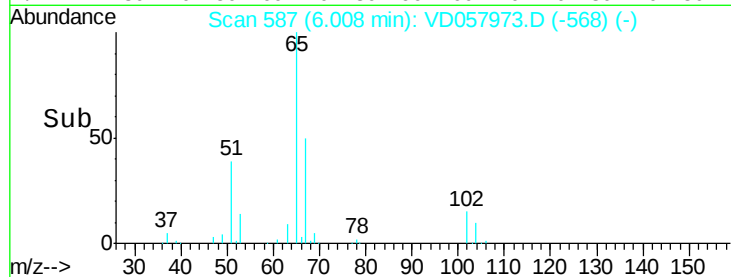
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.69 min Scan# 656

Delta R.T. -0.01 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

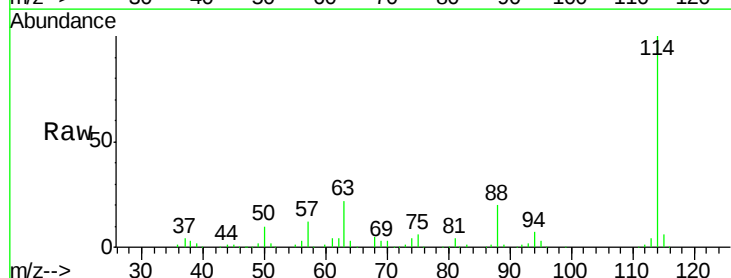
Tgt Ion: 114 Resp: 1266834

Ion Ratio Lower Upper

114 100

63 22.2 0.0 42.8

88 19.7 0.0 37.8



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

6.69

600000

500000

400000

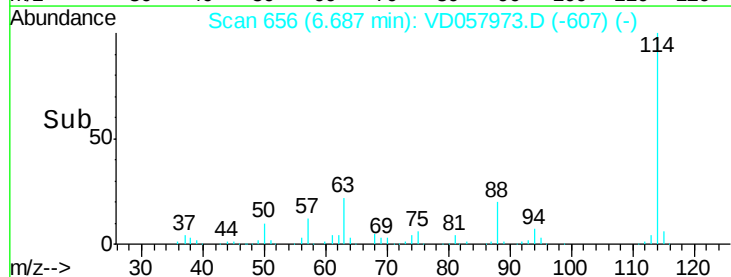
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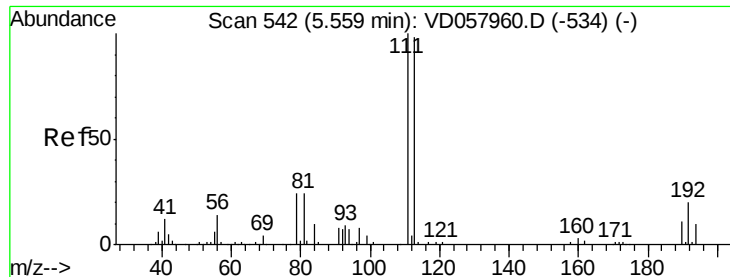
200000

100000

0

Time-->

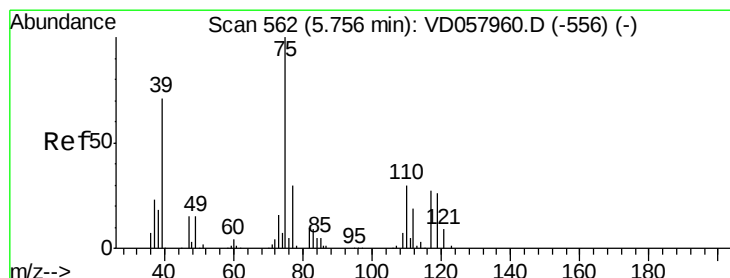
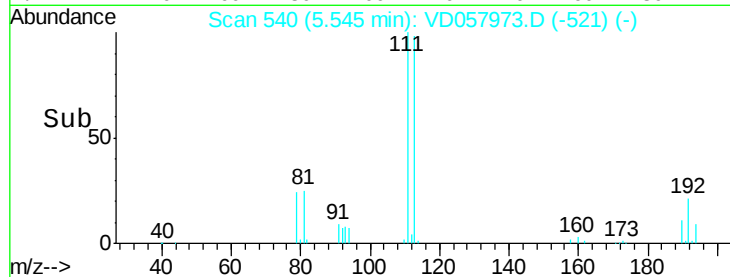
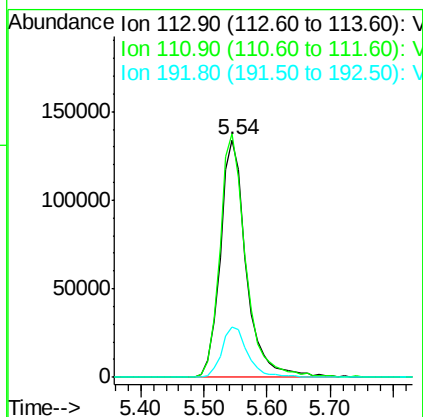
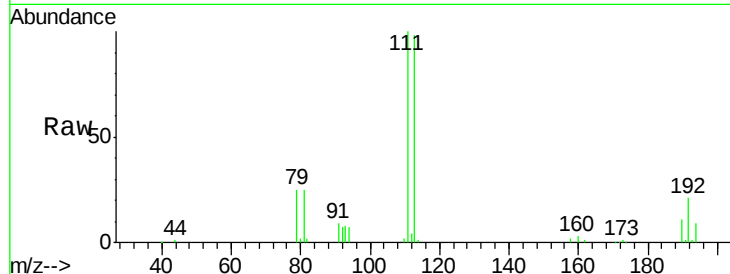




#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 5.54 min Scan# 540  
Delta R.T. -0.01 min  
Lab File: VD057973.D  
Acq: 7 Jun 2018 15:54

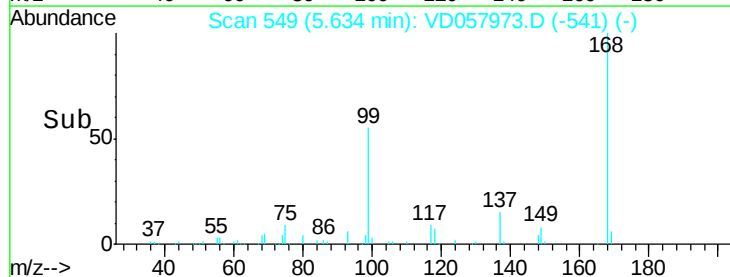
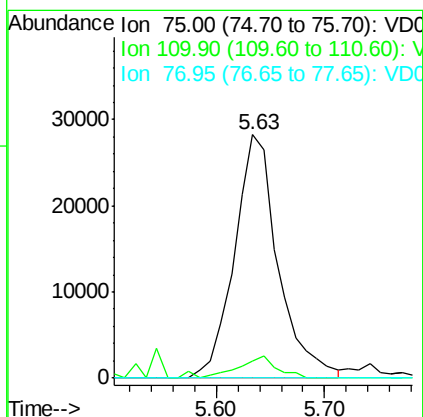
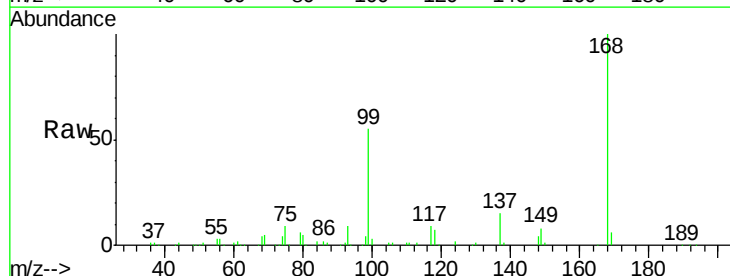
Instrument :  
MSVOA\_D  
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S39-0179

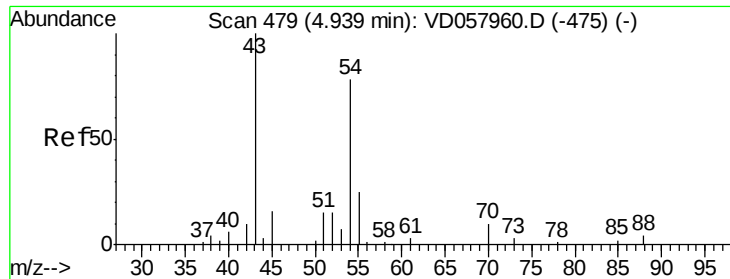
Tgt Ion:113 Resp: 384011  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.5 122.3  
192 21.0 16.4 24.6



#36  
1,1-Dichloropropene  
Concen: 5.671 ug/l  
RT: 5.63 min Scan# 549  
Delta R.T. -0.12 min  
Lab File: VD057973.D  
Acq: 7 Jun 2018 15:54

Tgt Ion: 75 Resp: 79145  
Ion Ratio Lower Upper  
75 100  
110 7.1 14.8 44.3#  
77 0.0 23.9 35.9#





#37

Ethyl Acetate

Concen: 3.186 ug/l

RT: 4.91 min Scan# 476

Delta R.T. -0.02 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

Instrument :

MSVOA\_D

ClientSampleId :

S39-0179

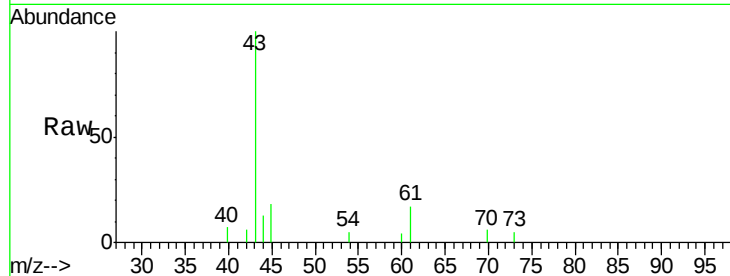
Tgt Ion: 43 Resp: 24260

Ion Ratio Lower Upper

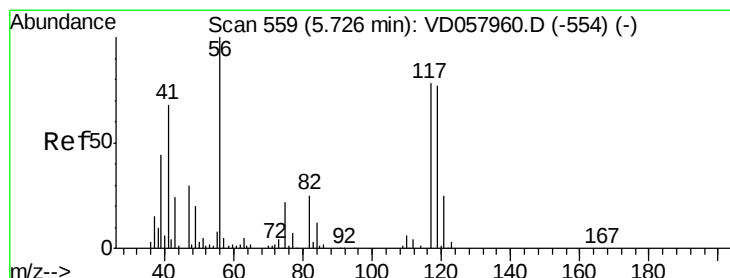
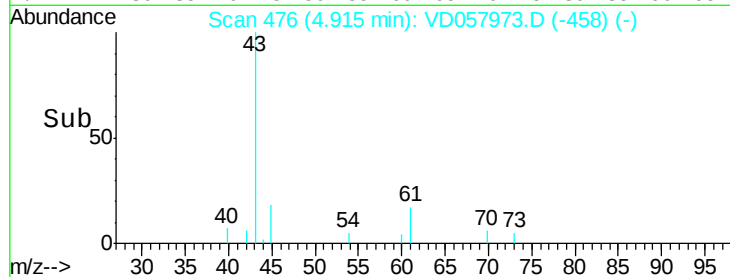
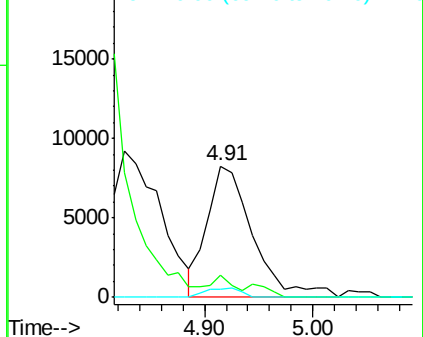
43 100

61 16.6 9.9 14.9#

70 5.9 5.7 8.5



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 6.095 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.09 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

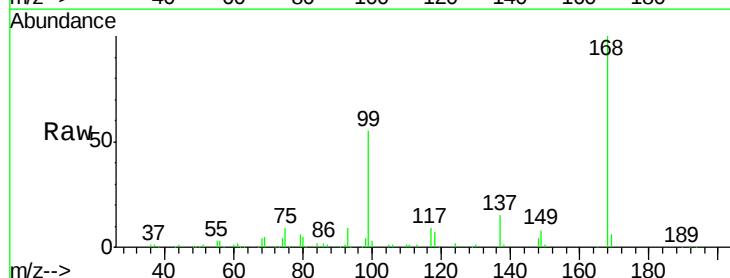
Tgt Ion: 117 Resp: 83841

Ion Ratio Lower Upper

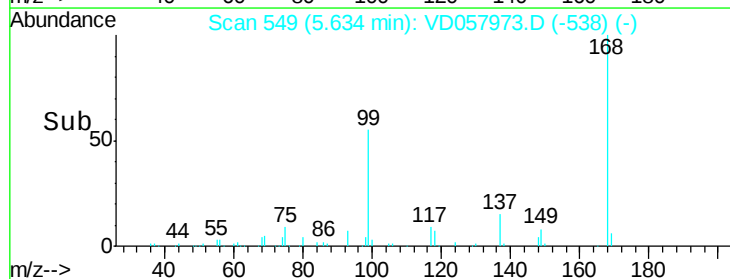
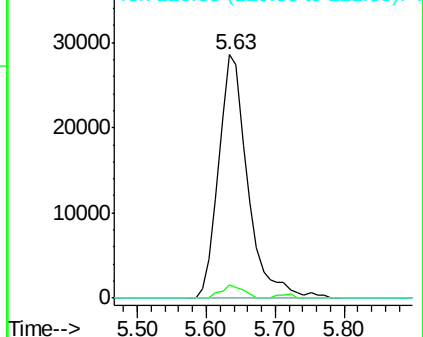
117 100

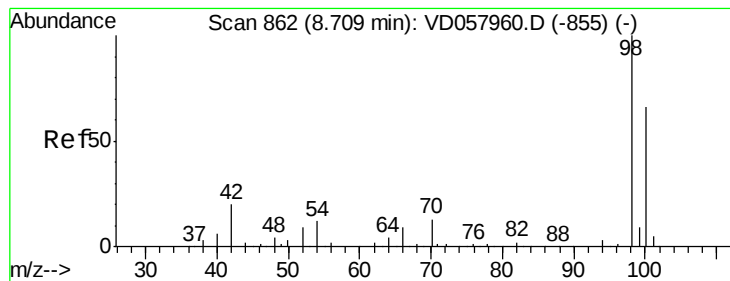
119 5.2 76.1 114.1#

121 0.0 24.9 37.3#



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: 8.70 min Scan# 860

Delta R.T. -0.01 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

Instrument :

MSVOA\_D

ClientSampleId :

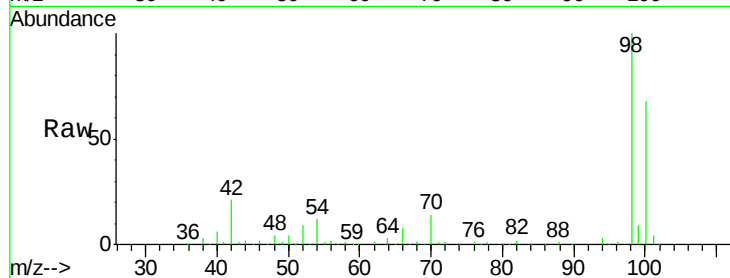
S39-0179

Tgt Ion: 98 Resp: 875901

Ion Ratio Lower Upper

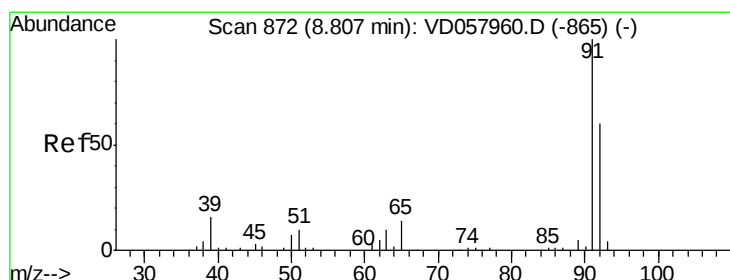
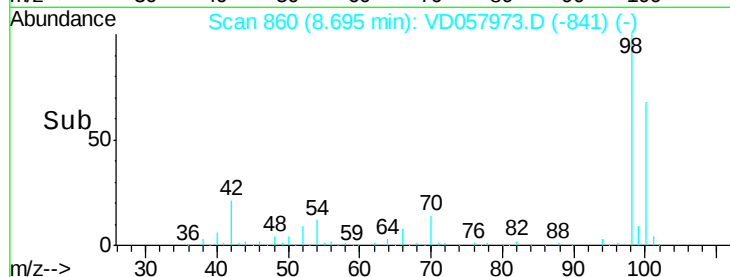
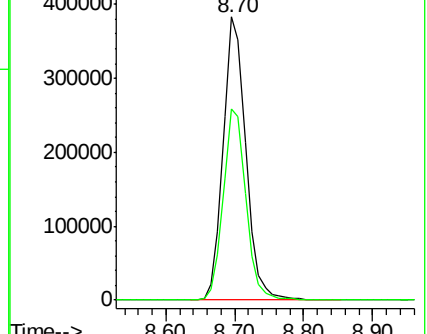
98 100

100 67.5 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 3.632 ug/l

RT: 8.79 min Scan# 870

Delta R.T. -0.01 min

Lab File: VD057973.D

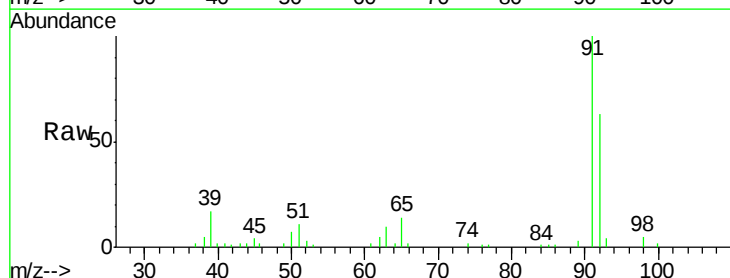
Acq: 7 Jun 2018 15:54

Tgt Ion: 92 Resp: 67959

Ion Ratio Lower Upper

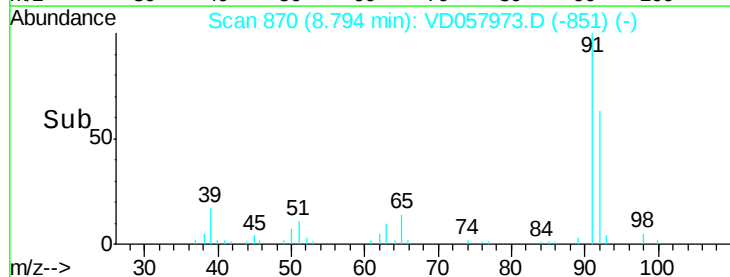
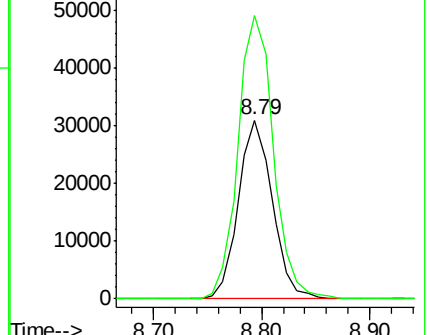
92 100

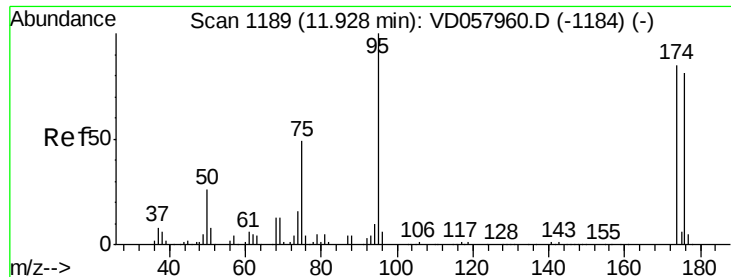
91 158.4 133.0 199.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

Instrument :

MSVOA\_D

ClientSampleId :

S39-0179

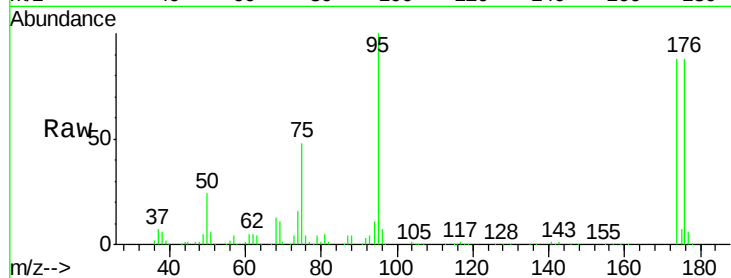
Tgt Ion: 95 Resp: 356662

Ion Ratio Lower Upper

95 100

174 88.2 0.0 169.4

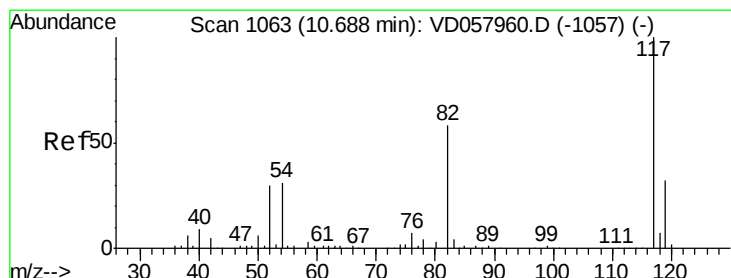
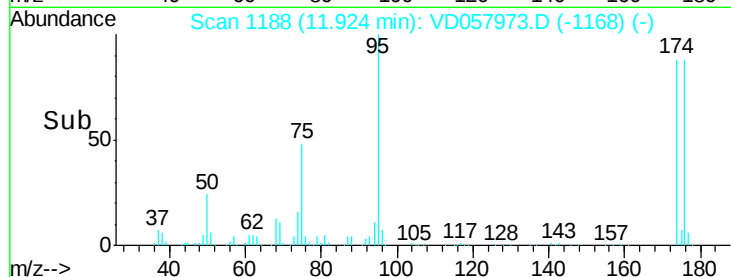
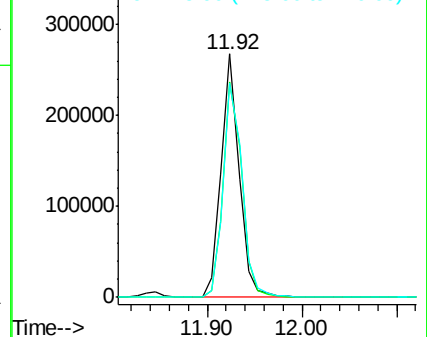
176 88.0 0.0 162.6



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: 10.68 min Scan# 1062

Delta R.T. -0.00 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

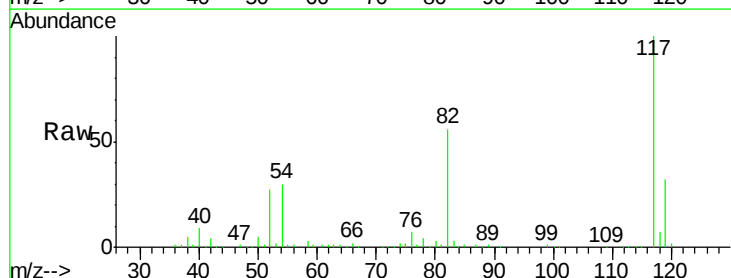
Tgt Ion: 117 Resp: 985042

Ion Ratio Lower Upper

117 100

82 56.4 46.8 70.2

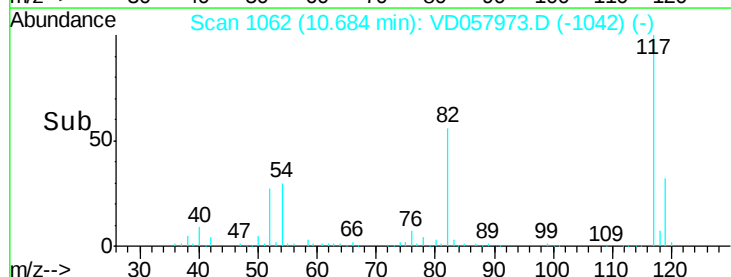
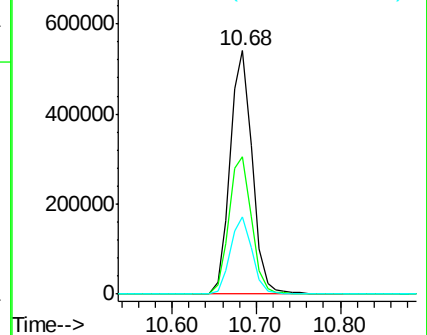
119 32.0 25.8 38.6

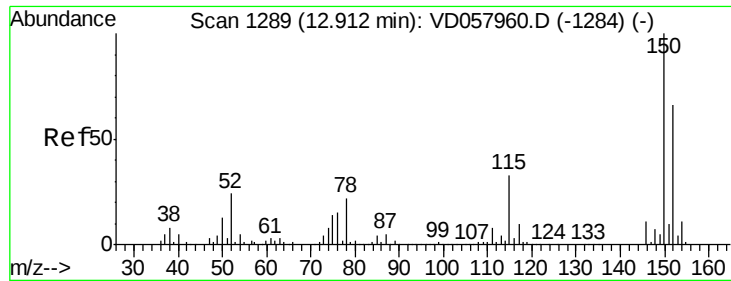


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.90 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

Instrument :

MSVOA\_D

ClientSampleId :

S39-0179

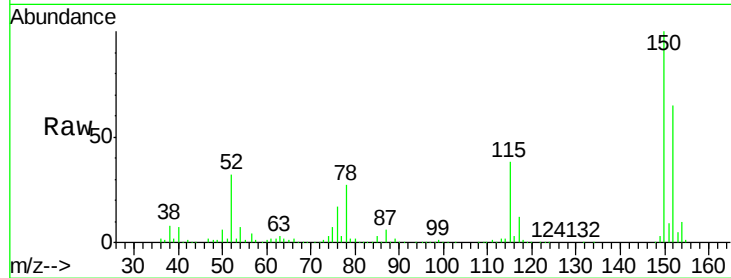
Tgt Ion:152 Resp: 442593

Ion Ratio Lower Upper

152 100

115 59.0 25.6 76.6

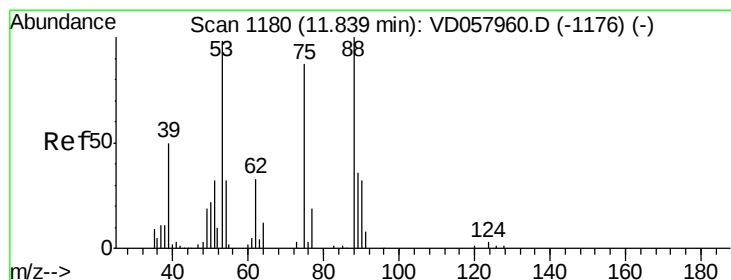
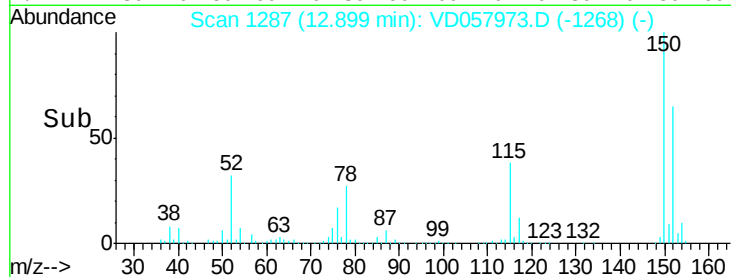
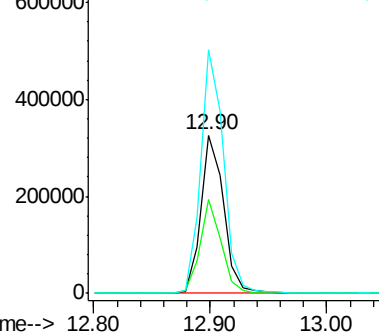
150 153.7 0.0 306.8



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: 102.479 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD057973.D

Acq: 7 Jun 2018 15:54

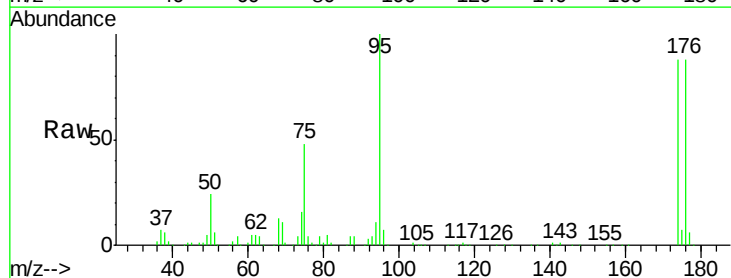
Tgt Ion: 75 Resp: 168753

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

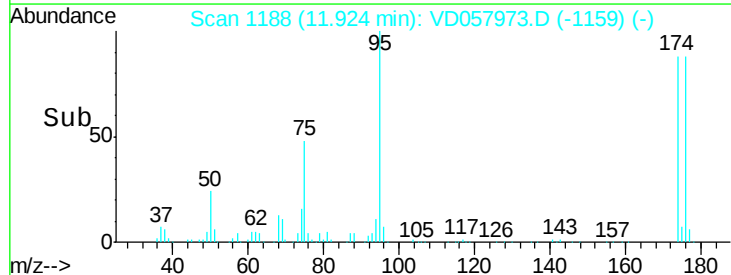
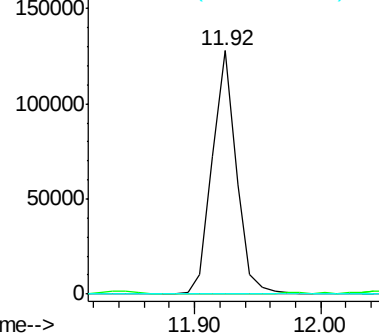
89 0.0 33.3 49.9#

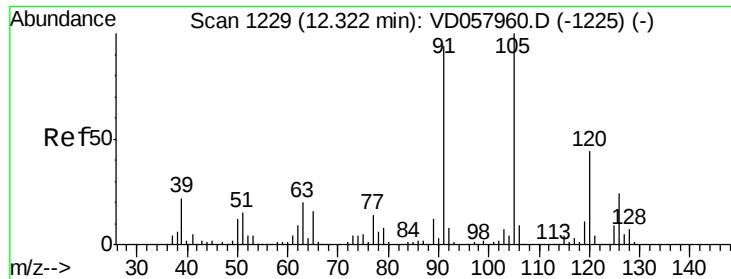


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

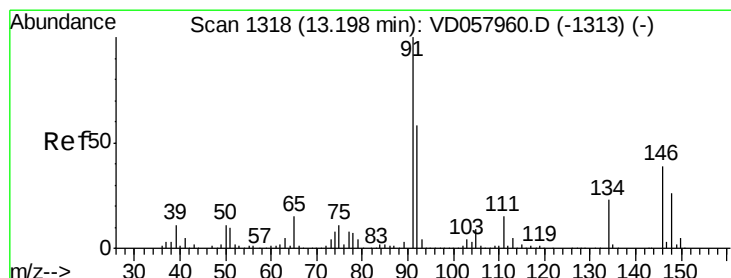
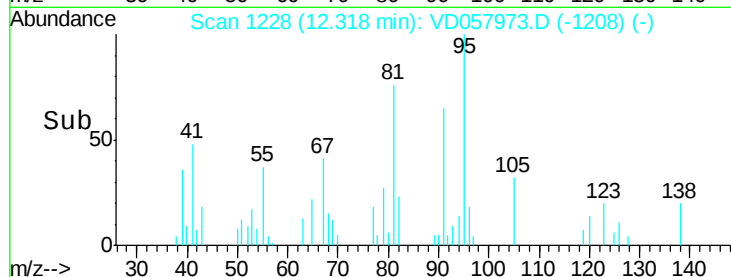
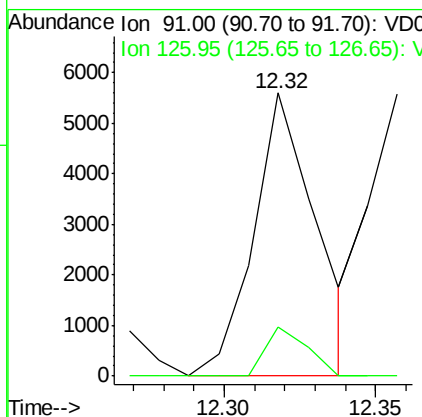
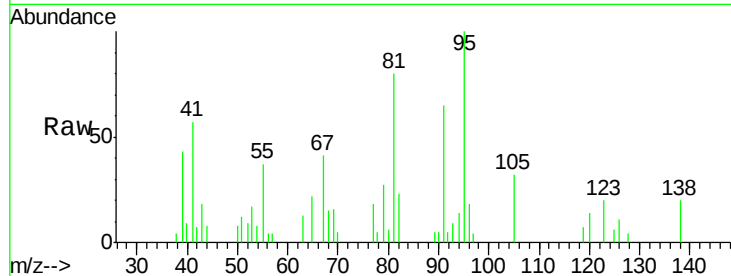




#82  
4-Chlorotoluene  
Concen: Below Cal  
RT: 12.32 min Scan# 1228  
Delta R.T. -0.00 min  
Lab File: VD057973.D  
Acq: 7 Jun 2018 15:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
S39-0179

Tgt Ion: 91 Resp: 7968  
Ion Ratio Lower Upper  
91 100  
126 17.2 12.5 37.5



#89  
n-Butylbenzene  
Concen: Below Cal  
RT: 13.18 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: VD057973.D  
Acq: 7 Jun 2018 15:54

Tgt Ion: 91 Resp: 5494  
Ion Ratio Lower Upper  
91 100  
92 46.5 29.2 87.6  
134 0.0 11.3 33.9#

