

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\  
 Data File : VD061528.D  
 Acq On : 2 Apr 2019 21:39  
 Operator : VA/AP  
 Sample : K2186-19  
 Misc : 3.67g/5ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BELT-PARKWAY-STAGING-YARD-3

Quant Time: Apr 03 01:55:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 09:22:37 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 310828   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 611630   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 317395   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 75566    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 205120   | 77.25 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 154.50% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 272477   | 58.30 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 116.60% |          |
| 50) Toluene-d8              | 10.41 | 98   | 429294   | 38.29 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 76.58%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 102844   | 23.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 47.84%  |          |

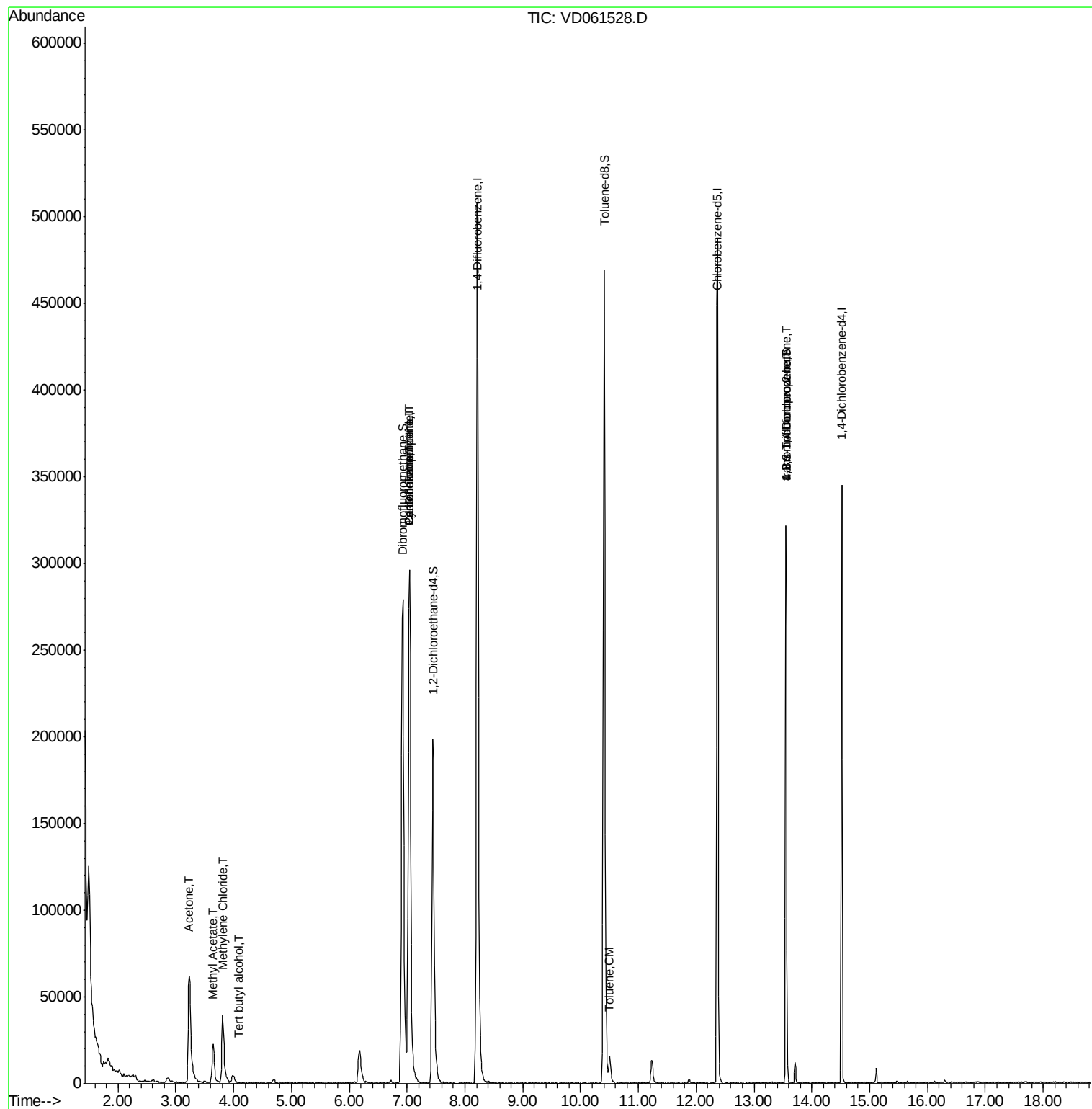
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 4.08  | 59   | 204      | 1.234   | ug/l # | 76     |
| 16) Acetone                    | 3.23  | 43   | 144360   | 211.496 | ug/l   | 99     |
| 18) Methyl Acetate             | 3.65  | 43   | 44860    | 31.258  | ug/l   | 98     |
| 20) Methylene Chloride         | 3.81  | 84   | 31837    | 6.662   | ug/l   | 94     |
| 31) Cyclohexane                | 7.03  | 56   | 5506     | 1.204   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 22742    | 4.260   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 29704    | 4.842   | ug/l # | 13     |
| 52) Toluene                    | 10.50 | 92   | 9213     | 1.127   | ug/l   | 85     |
| 76) 1,2,3-Trichloropropane     | 13.55 | 75   | 31821    | 29.152  | ug/l # | 42     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 38171    | 114.689 | ug/l # | 18     |

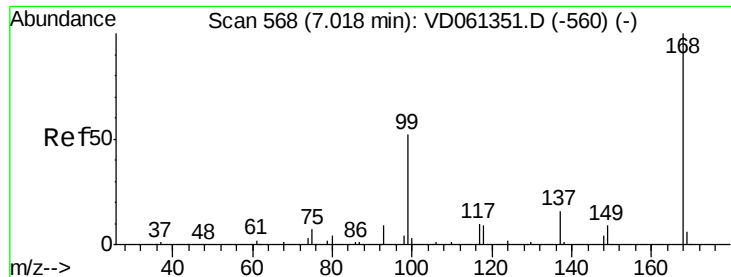
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 28 09:22:37 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.03 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

Instrument :

MSVOA\_D

ClientSampleId :

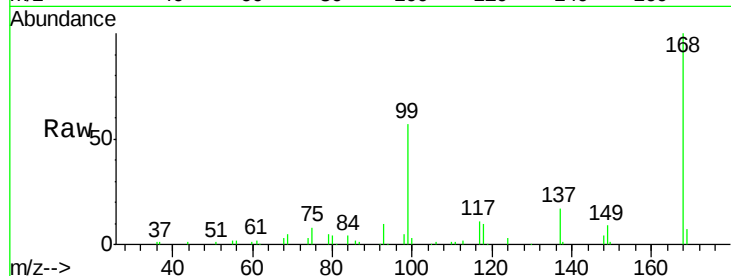
BELT-PARKWAY-STAGING-YARD-3

Tot Ion:168 Resp: 310828

Ion Ratio Lower Upper

168 100

99 57.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

100000

80000

60000

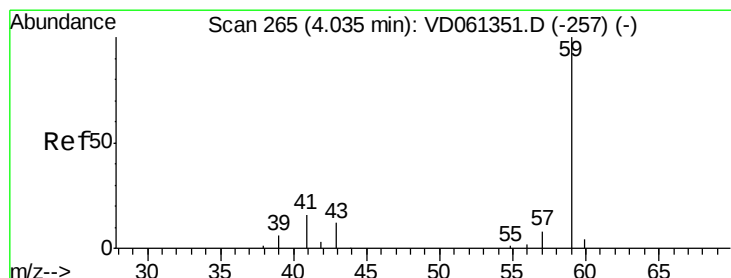
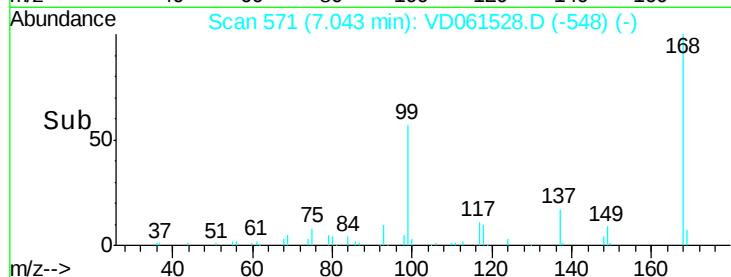
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.234 ug/l

RT: 4.08 min Scan# 270

Delta R.T. 0.04 min

Lab File: VD061528.D

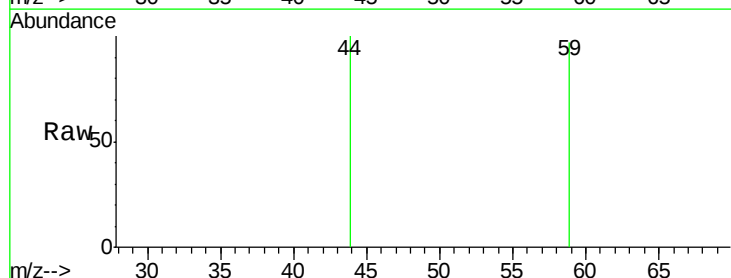
Acq: 2 Apr 2019 21:39

Tgt Ion: 59 Resp: 204

Ion Ratio Lower Upper

59 100

57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

400

300

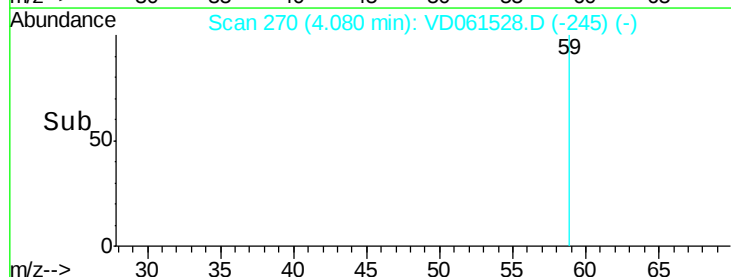
200

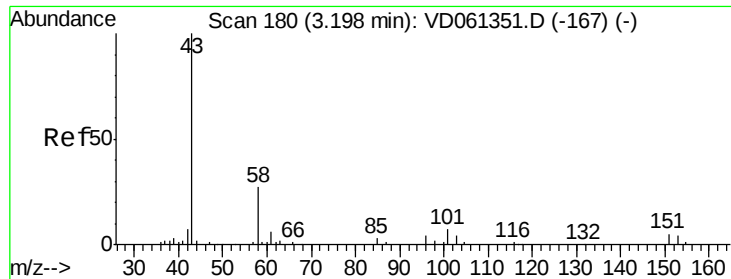
100

0

Time-->

4.06 4.08 4.10





#16

Acetone

Concen: 211.496 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

Instrument :

MSVOA\_D

ClientSampleId :

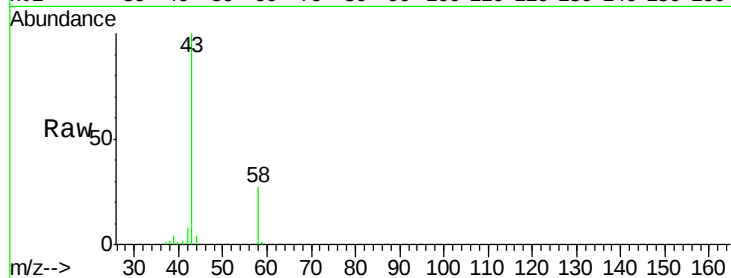
BELT-PARKWAY-STAGING-YARD-3

Tot Ion: 43 Resp: 144360

Ion Ratio Lower Upper

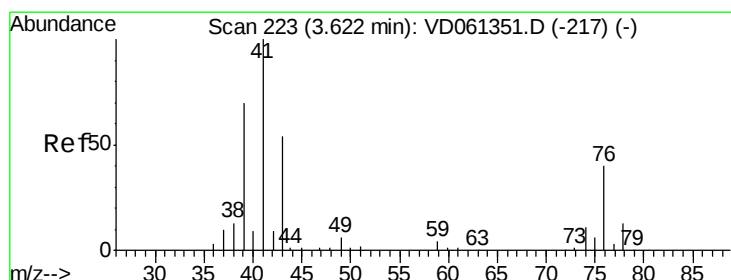
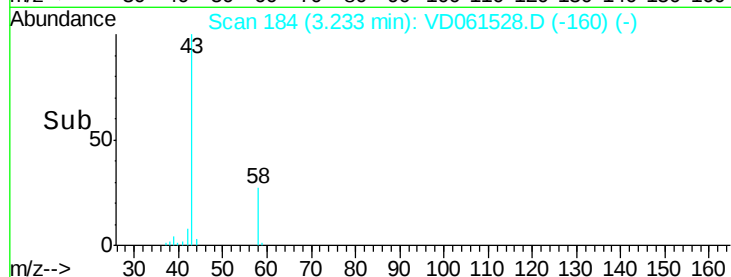
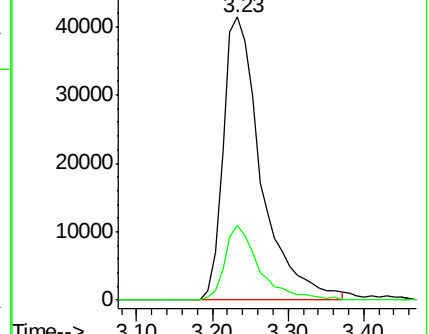
43 100

58 26.5 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 31.258 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.03 min

Lab File: VD061528.D

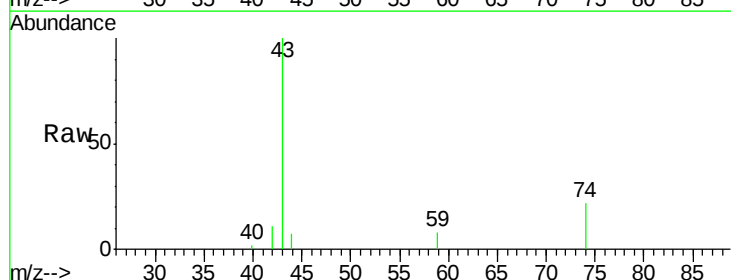
Acq: 2 Apr 2019 21:39

Tgt Ion: 43 Resp: 44860

Ion Ratio Lower Upper

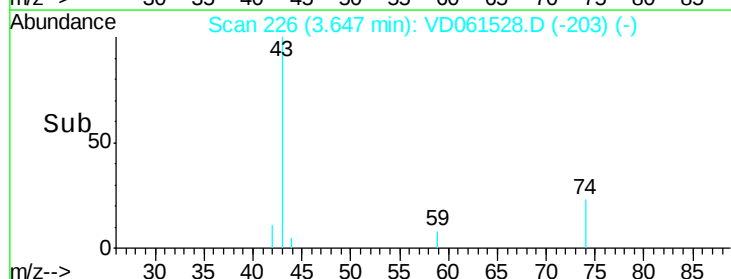
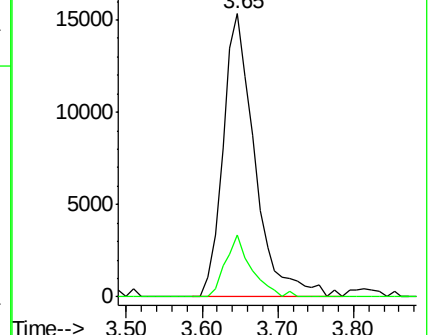
43 100

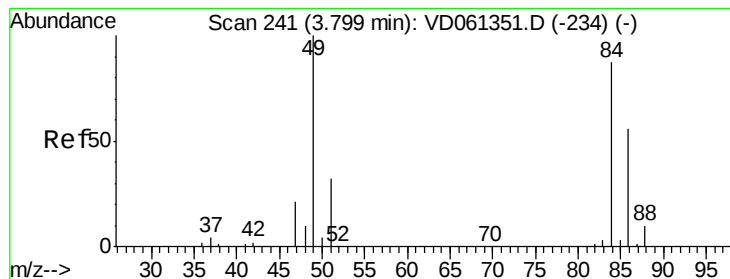
74 21.9 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 6.662 ug/l

RT: 3.81 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

Instrument :

MSVOA\_D

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-3

Tot Ion: 84 Resp: 31837

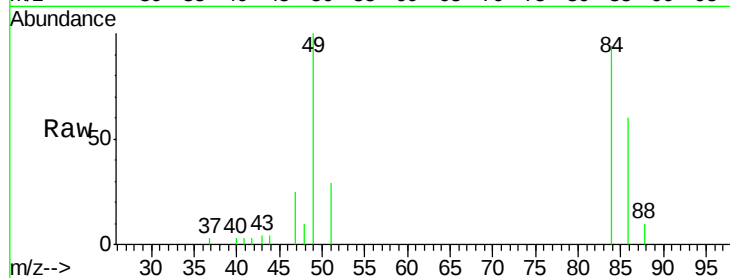
Ion Ratio Lower Upper

84 100

49 106.7 91.8 137.8

51 31.2 29.8 44.8

86 64.4 51.8 77.6

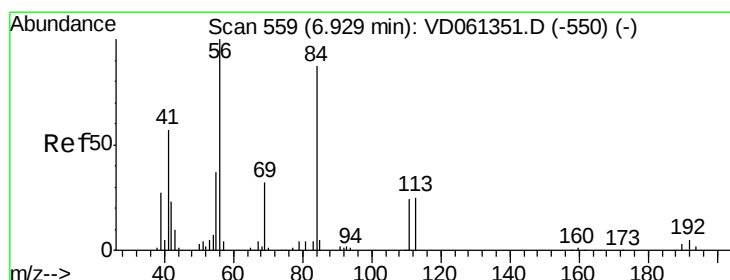
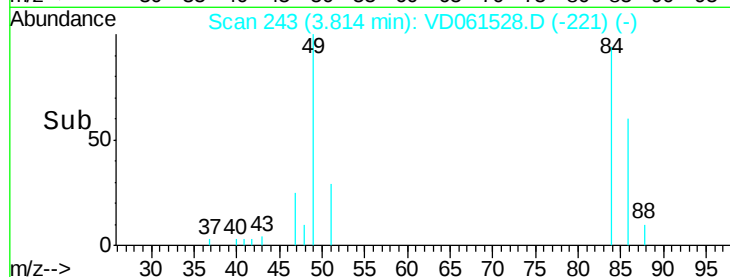
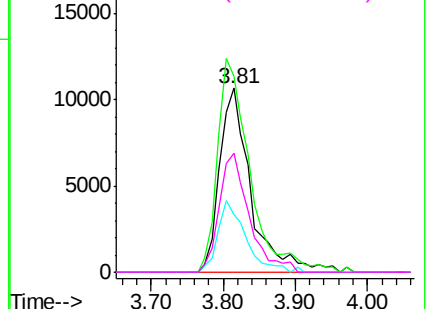


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.204 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

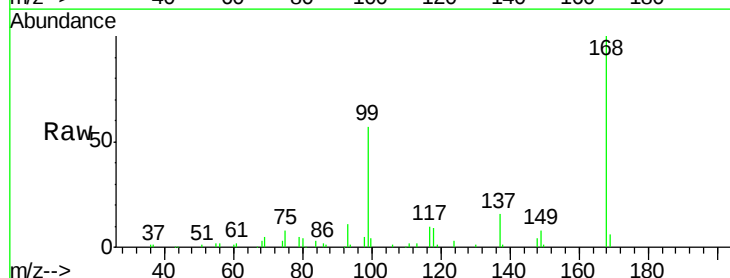
Tgt Ion: 56 Resp: 5506

Ion Ratio Lower Upper

56 100

69 213.7 25.7 38.5#

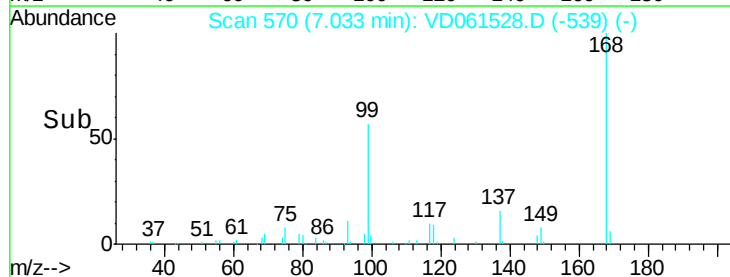
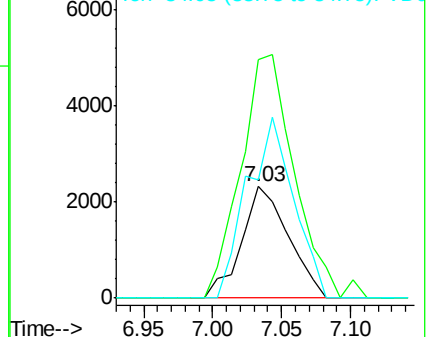
84 105.7 70.6 105.8

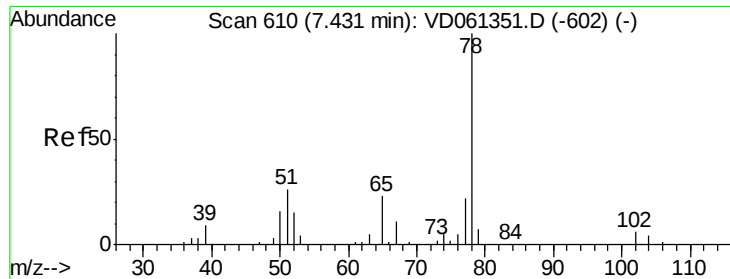


Abundance Ion 55.95 (55.65 to 56.65): VDC

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: 7.45 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

Instrument :

MSVOA\_D

ClientSampleId :

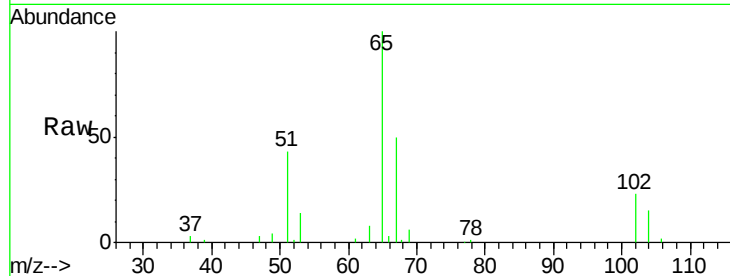
BELT-PARKWAY-STAGING-YARD-3

Tot Ion: 65 Resp: 205120

Ion Ratio Lower Upper

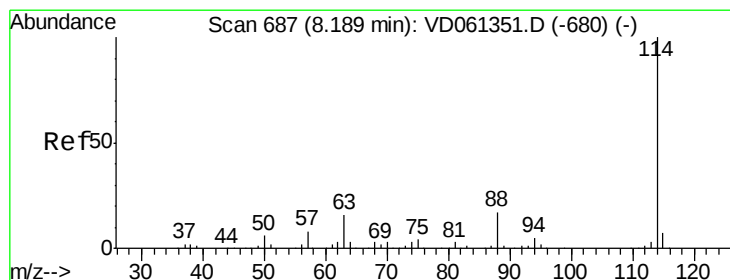
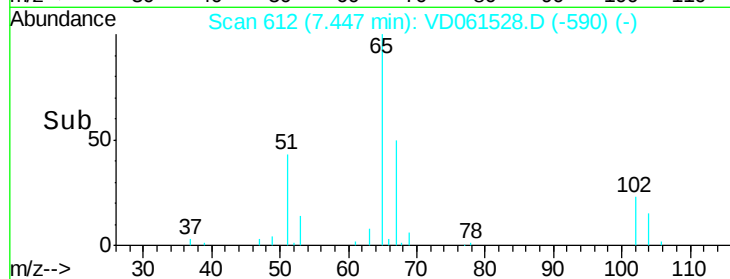
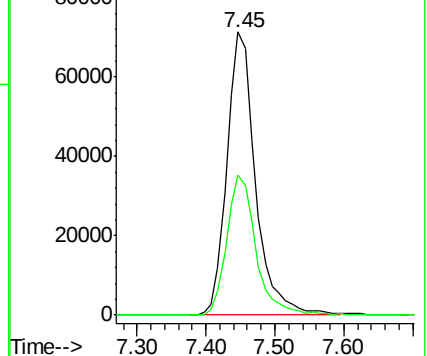
65 100

67 49.7 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. 0.03 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

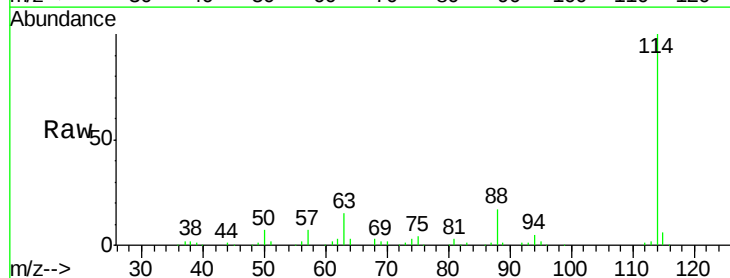
Tgt Ion: 114 Resp: 611630

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.6

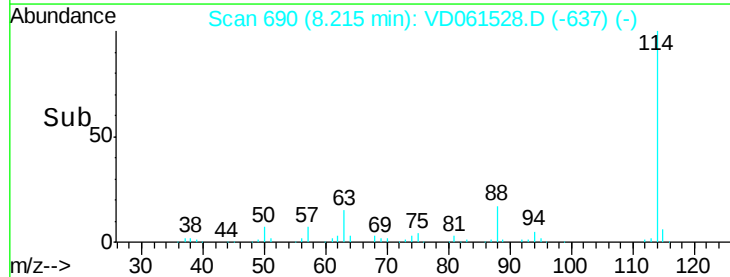
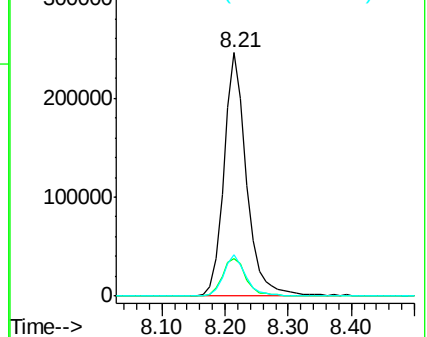
88 17.1 0.0 33.4

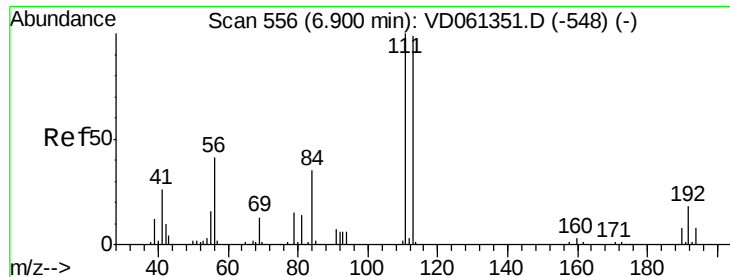


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

Instrument :

MSVOA\_D

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-3

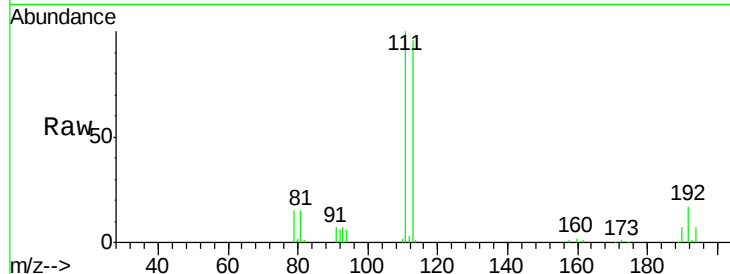
Tot Ion:113 Resp: 272477

Ion Ratio Lower Upper

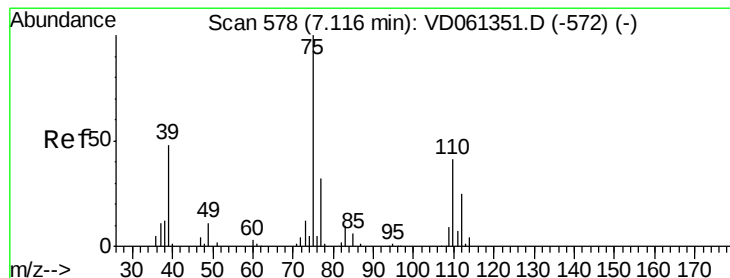
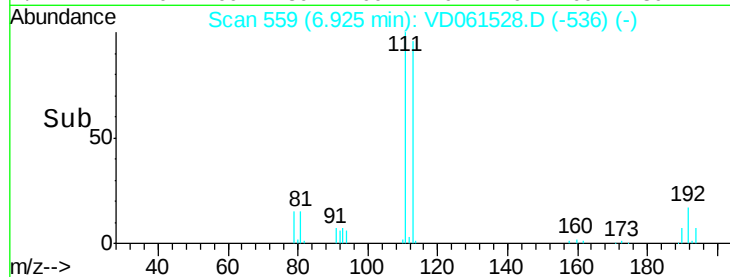
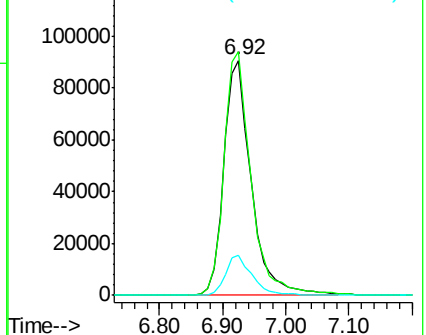
113 100

111 103.7 81.0 121.6

192 17.1 14.4 21.6



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: 4.260 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

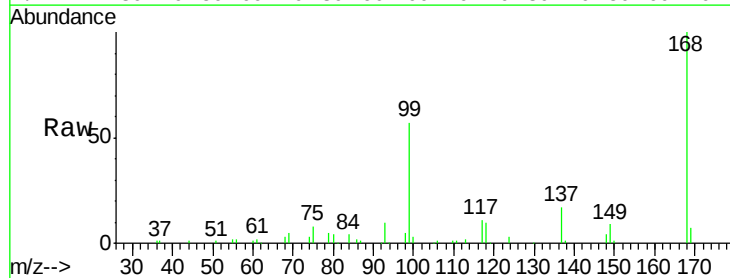
Tgt Ion: 75 Resp: 22742

Ion Ratio Lower Upper

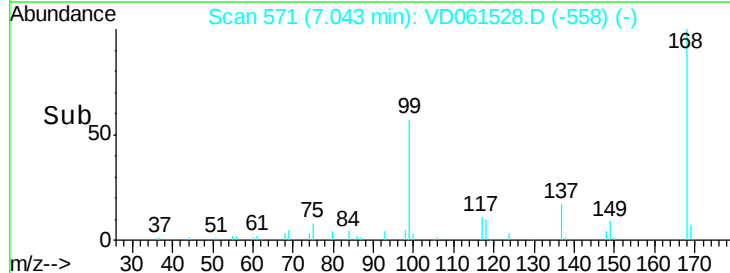
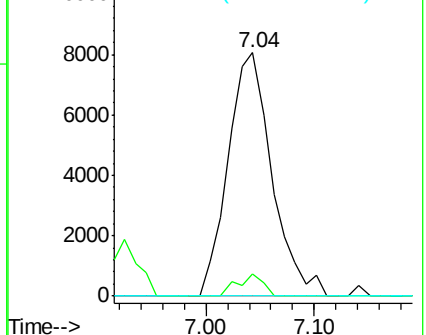
75 100

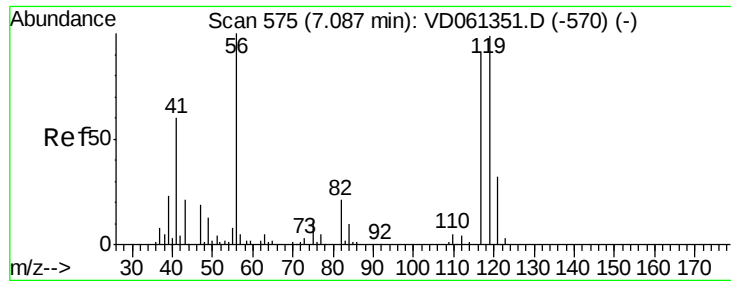
110 9.2 20.4 61.3#

77 0.0 24.9 37.3#



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: 4.842 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

Instrument :

MSVOA\_D

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-3

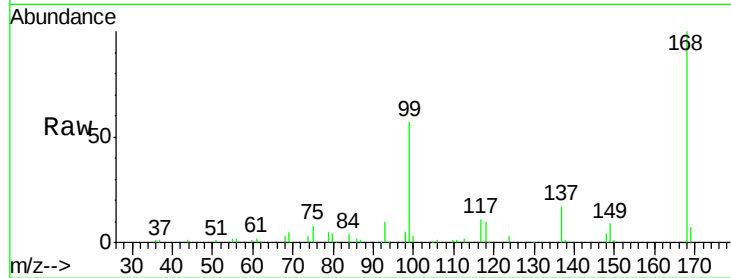
Tot Ion:117 Resp: 29704

Ion Ratio Lower Upper

117 100

119 3.9 80.1 120.1#

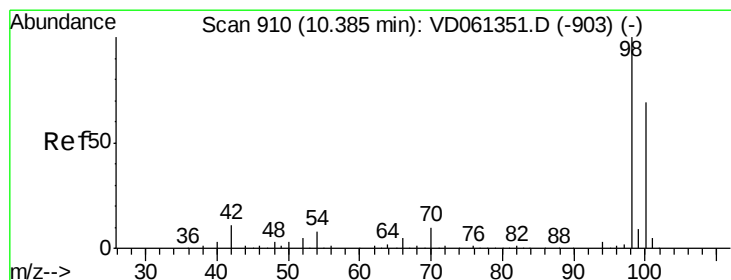
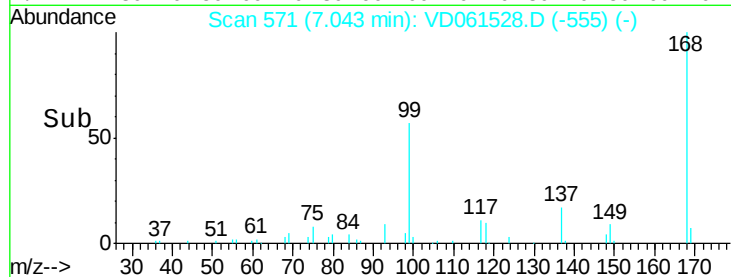
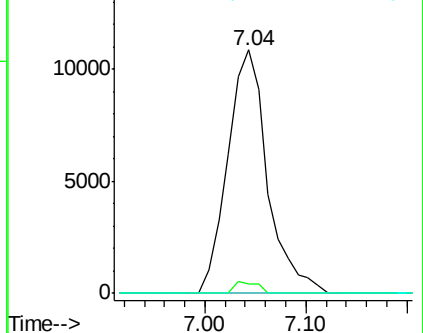
121 0.0 25.6 38.4#



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: 10.41 min Scan# 913

Delta R.T. 0.03 min

Lab File: VD061528.D

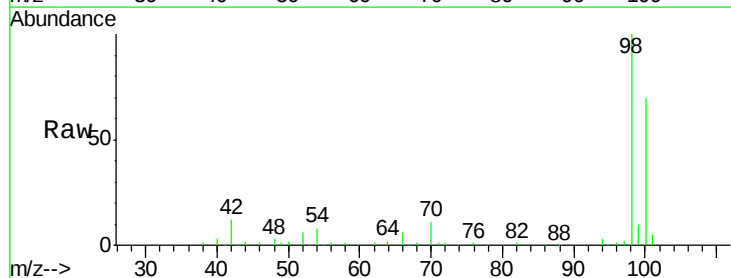
Acq: 2 Apr 2019 21:39

Tgt Ion: 98 Resp: 429294

Ion Ratio Lower Upper

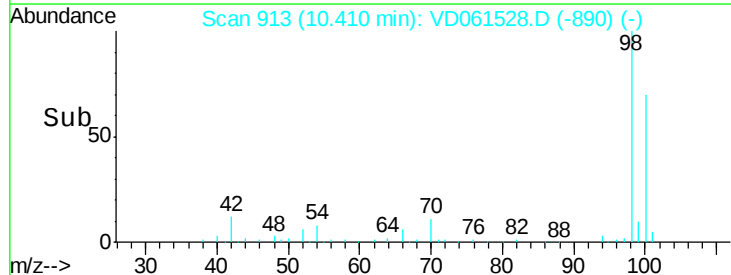
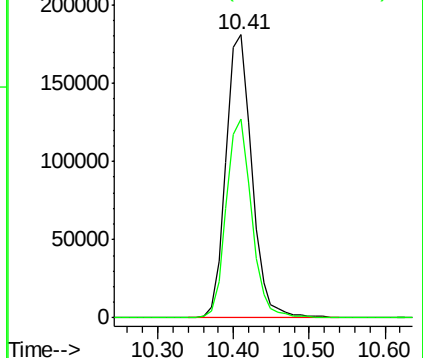
98 100

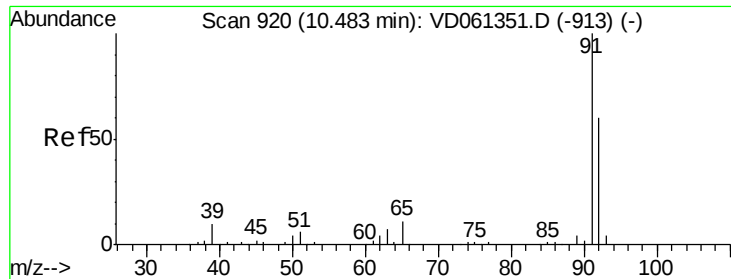
100 70.1 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.127 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.02 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

Instrument :

MSVOA\_D

ClientSampleId :

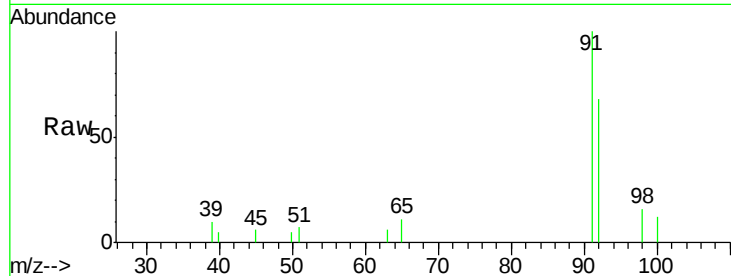
BELT-PARKWAY-STAGING-YARD-3

Tot Ion: 92 Resp: 9213

Ion Ratio Lower Upper

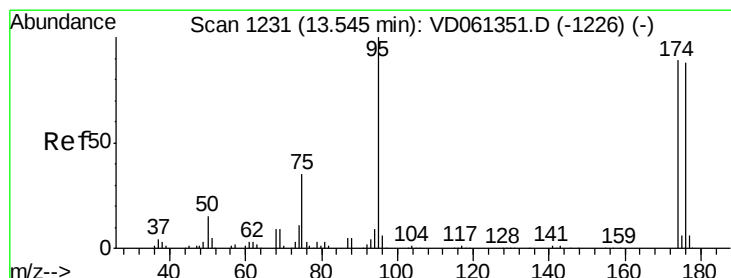
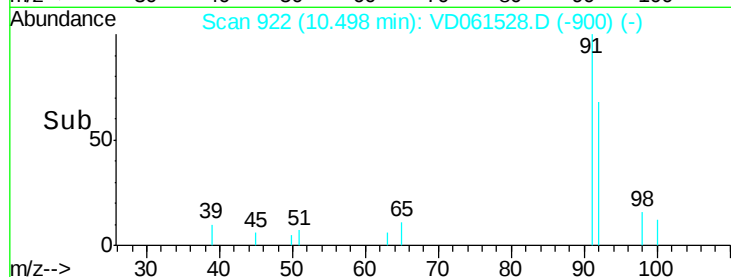
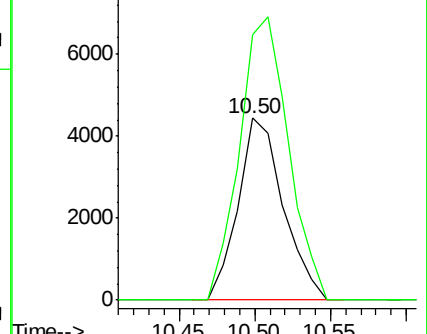
92 100

91 146.2 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD061528.D

Acq: 2 Apr 2019 21:39

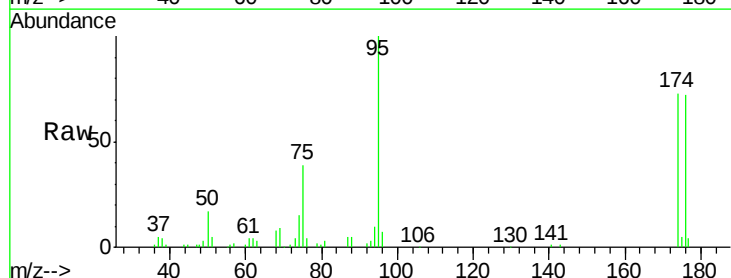
Tgt Ion: 95 Resp: 102844

Ion Ratio Lower Upper

95 100

174 72.8 0.0 178.0

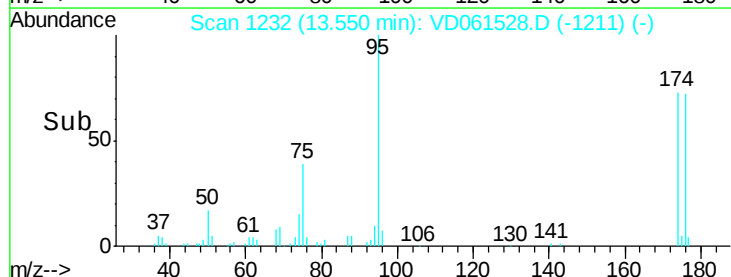
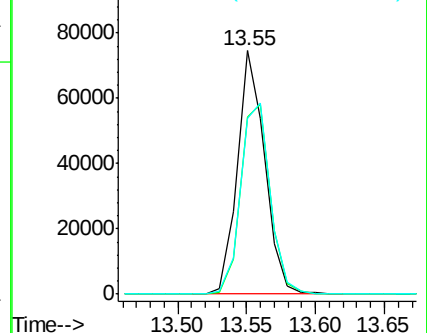
176 71.9 0.0 175.0

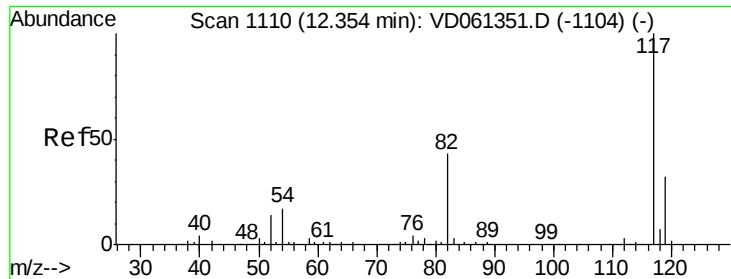


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

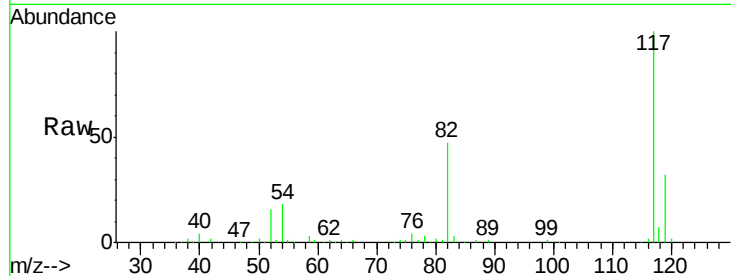




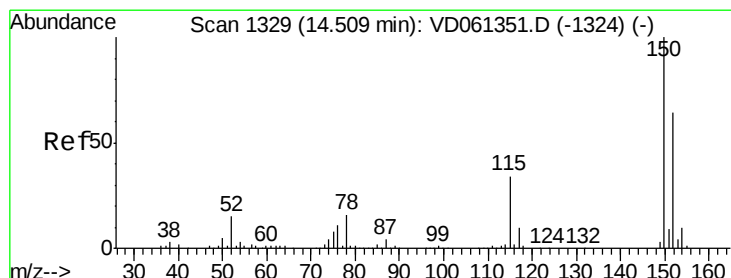
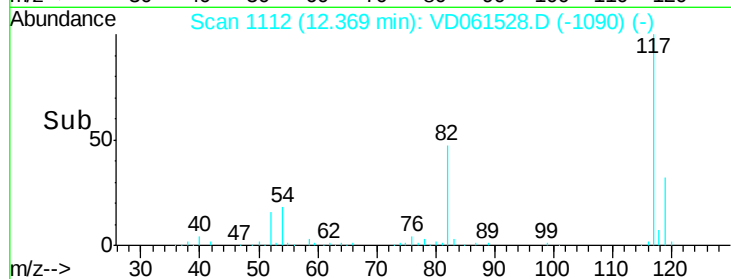
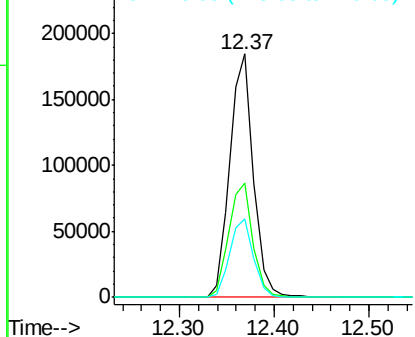
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.02 min  
Lab File: VD061528.D  
Acq: 2 Apr 2019 21:39

Instrument :  
MSVOA\_D  
ClientSampleId :  
BELT-PARKWAY-STAGING-YARD-3

Tot Ion:117 Resp: 317395  
Ion Ratio Lower Upper  
117 100  
82 46.9 34.4 51.6  
119 32.2 25.8 38.6

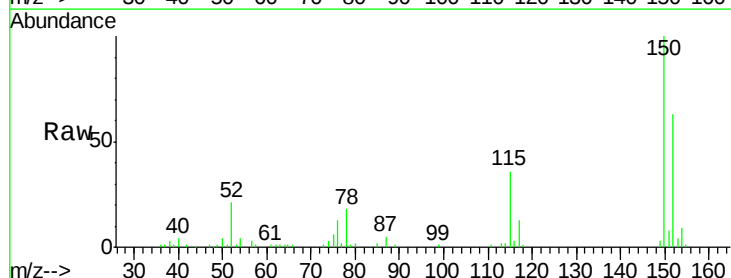


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

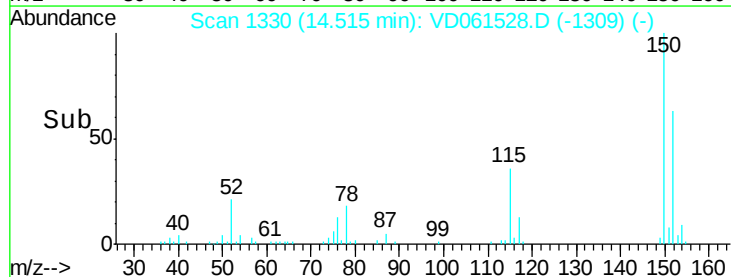
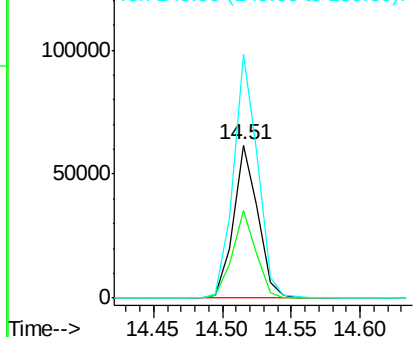


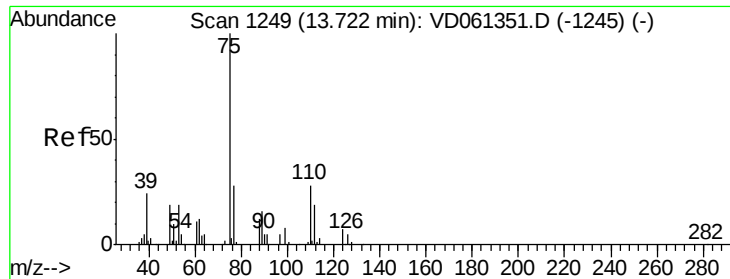
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1330  
Delta R.T. 0.01 min  
Lab File: VD061528.D  
Acq: 2 Apr 2019 21:39

Tgt Ion:152 Resp: 75566  
Ion Ratio Lower Upper  
152 100  
115 57.0 26.9 80.6  
150 158.9 0.0 318.0



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

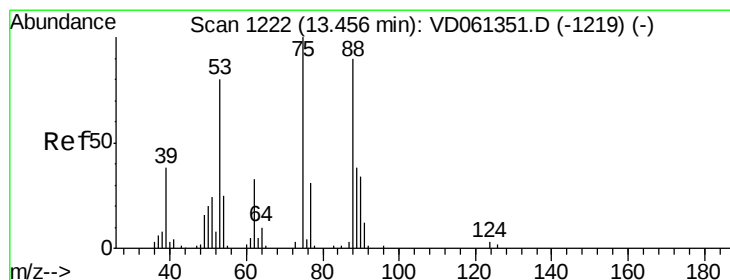
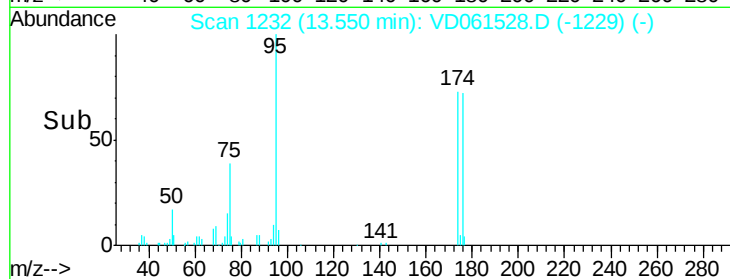
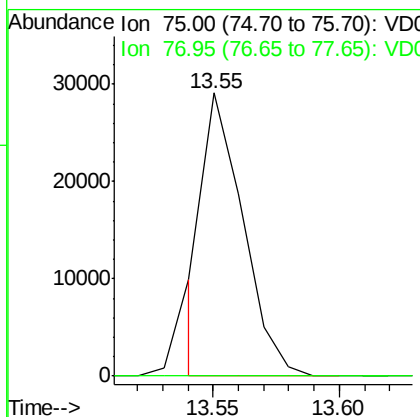
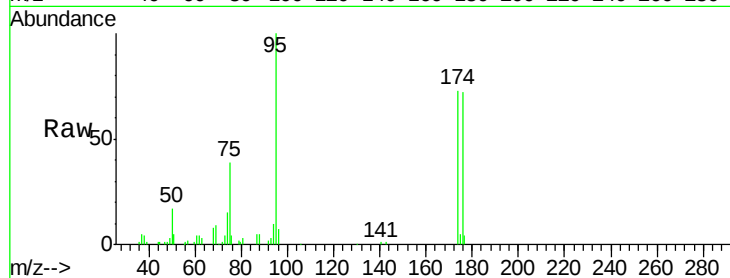




#76  
 1,2,3-Trichloropropane  
 Concen: 29.152 ug/l  
 RT: 13.55 min Scan# 1232  
 Delta R.T. -0.17 min  
 Lab File: VD061528.D  
 Acq: 2 Apr 2019 21:39

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BELT-PARKWAY-STAGING-YARD-3

Tot Ion: 75 Resp: 31821  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 16.2 48.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 114.689 ug/l  
 RT: 13.55 min Scan# 1232  
 Delta R.T. 0.09 min  
 Lab File: VD061528.D  
 Acq: 2 Apr 2019 21:39

Tgt Ion: 75 Resp: 38171  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 63.8 95.8#  
 89 0.0 30.5 45.7#

