

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080819\  
 Data File : VD063456.D  
 Acq On : 9 Aug 2019 1:09  
 Operator : JC/SY  
 Sample : K4223-20  
 Misc : 5.62g/5ml/MSVOA D/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP-10

Quant Time: Aug 09 08:04:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

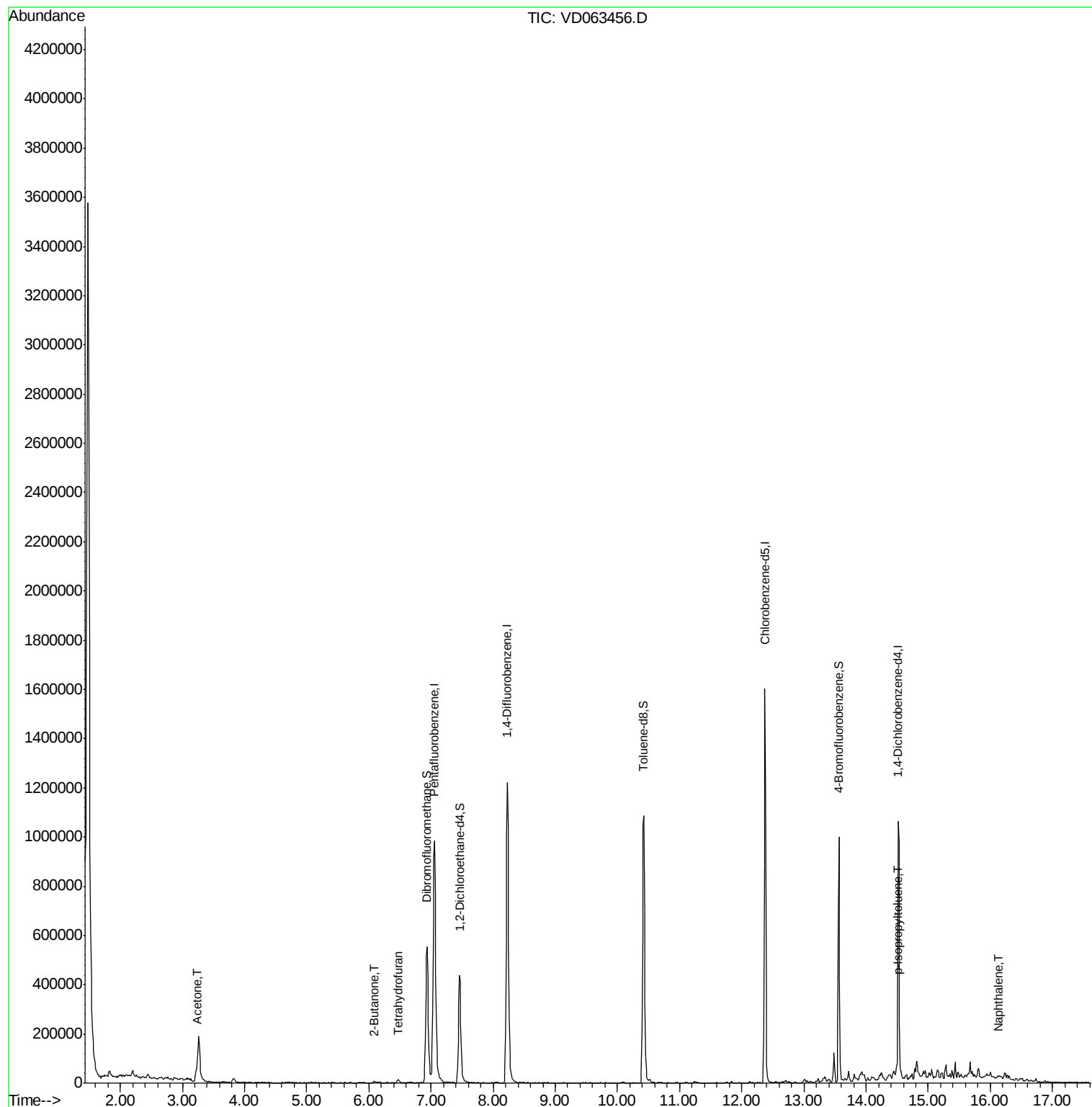
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 7.06  | 168  | 967432   | 50.00  | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene     | 8.23  | 114  | 1333926  | 50.00  | ug/l   | 0.02     |
| 63) Chlorobenzene-d5        | 12.37 | 117  | 860793   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 14.53 | 152  | 254433   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 483081   | 45.00  | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.00% |          |
| 35) Dibromofluoromethane    | 6.94  | 113  | 491690   | 43.17  | ug/l   | 0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 86.34% |          |
| 50) Toluene-d8              | 10.42 | 98   | 920640   | 36.12  | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 72.24% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 278838   | 24.01  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 48.02% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 3.23  | 43   | 95517    | 45.669 | ug/l   | 94       |
| 25) 2-Butanone              | 6.08  | 43   | 14930    | 7.113  | ug/l # | 83       |
| 29) Tetrahydrofuran         | 6.48  | 42   | 7628     | 7.676  | ug/l # | 82       |
| 86) p-Isopropyltoluene      | 14.50 | 119  | 26946    | 1.704  | ug/l   | 96       |
| 95) Naphthalene             | 16.13 | 128  | 9600     | 1.220  | ug/l # | 88       |

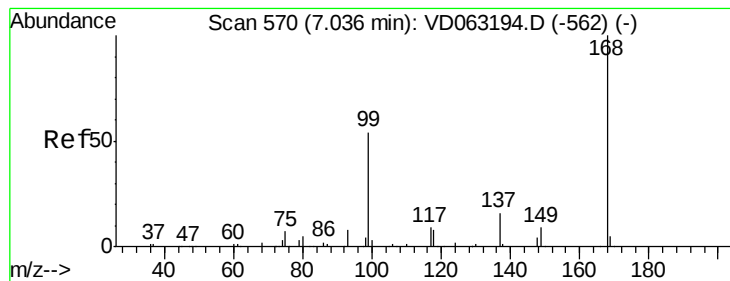
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080819\  
Data File : VD063456.D  
Acq On : 9 Aug 2019 1:09  
Operator : JC/SY  
Sample : K4223-20  
Misc : 5.62g/5ml/MSVOA D/SOIL  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-10

Quant Time: Aug 09 08:04:57 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA\_D

ClientSampleId :

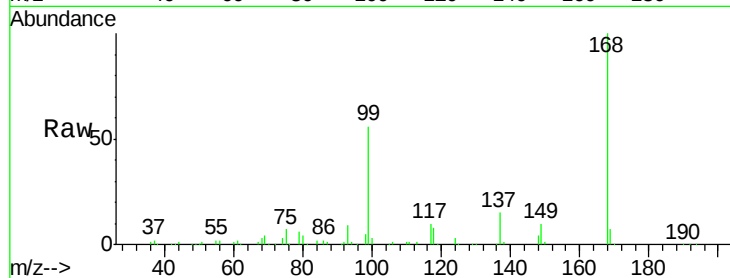
SP-10

Tot Ion:168 Resp: 967432

Ion Ratio Lower Upper

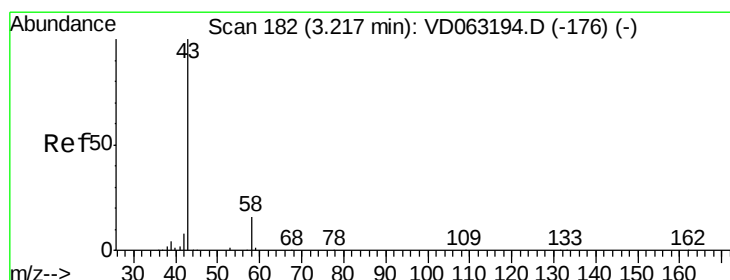
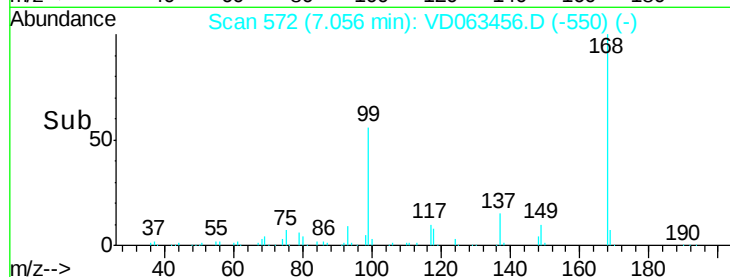
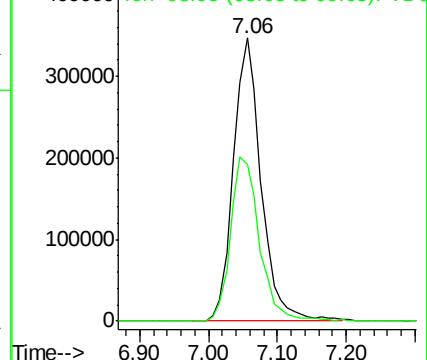
168 100

99 55.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 45.669 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063456.D

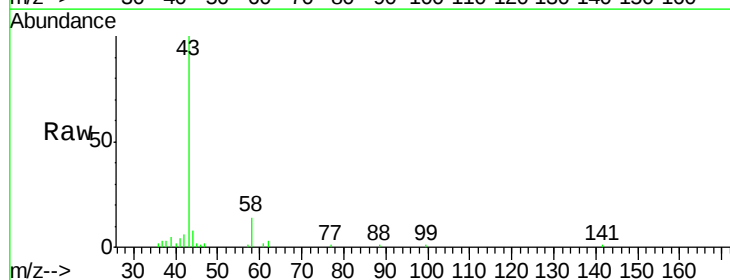
Acq: 9 Aug 2019 1:09

Tgt Ion: 43 Resp: 95517

Ion Ratio Lower Upper

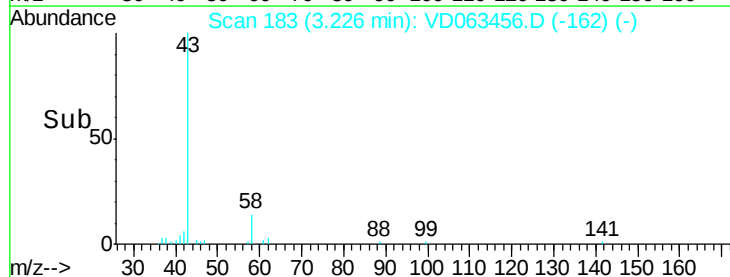
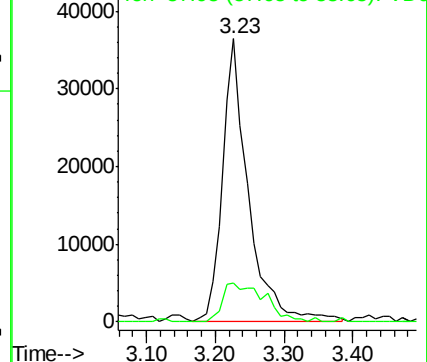
43 100

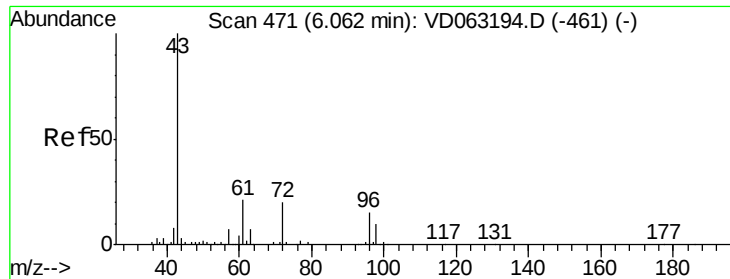
58 13.7 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 7.113 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA\_D

ClientSampleId :

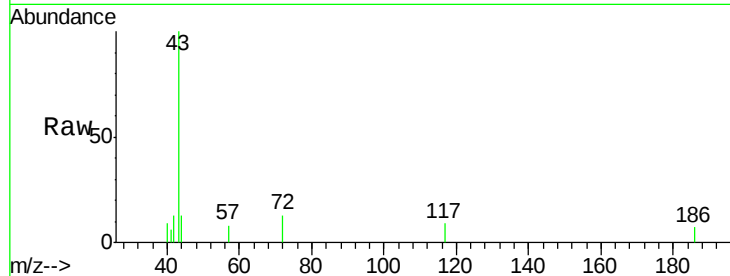
SP-10

Tot Ion: 43 Resp: 14930

Ion Ratio Lower Upper

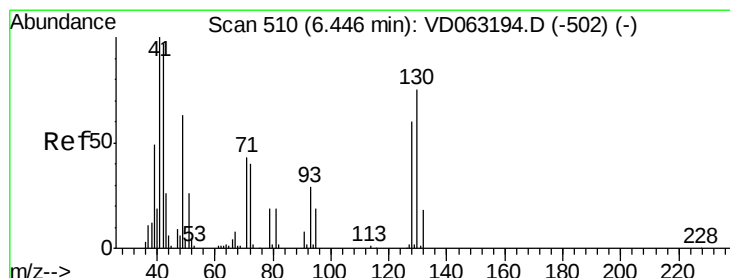
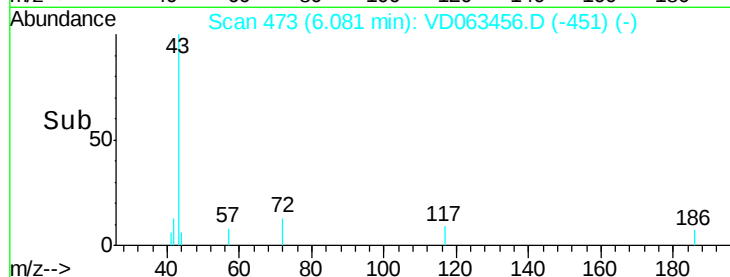
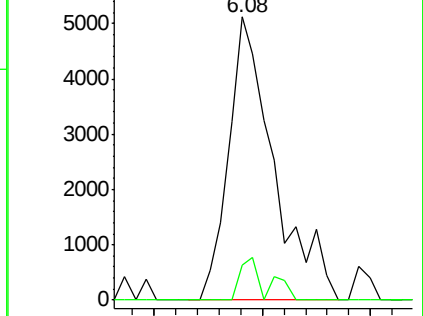
43 100

72 12.5 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 7.676 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

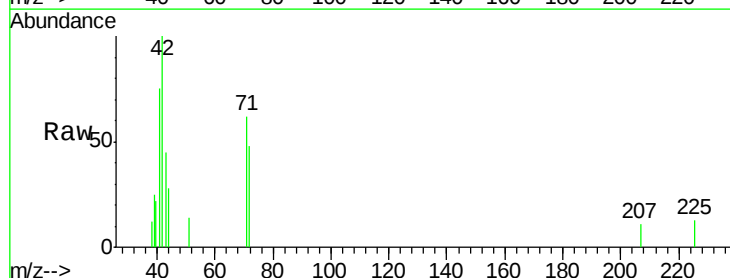
Tgt Ion: 42 Resp: 7628

Ion Ratio Lower Upper

42 100

72 49.1 33.4 50.2

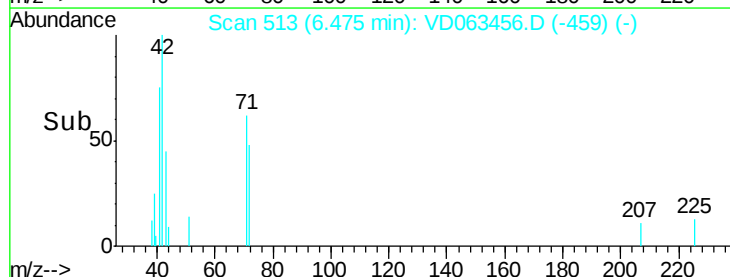
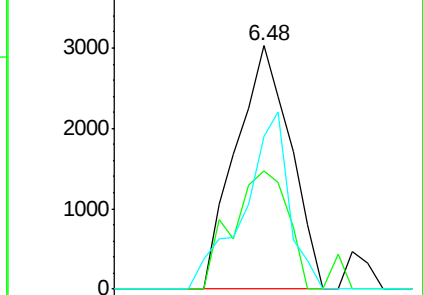
71 60.1 35.7 53.5#

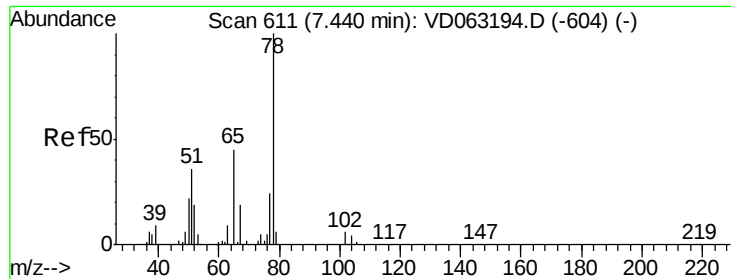


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 45.002 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA\_D

ClientSampleId :

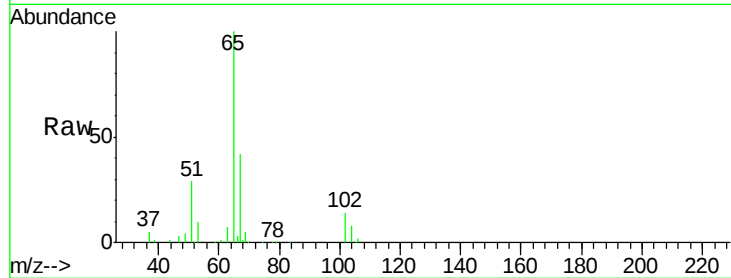
SP-10

Tot Ion: 65 Resp: 483081

Ion Ratio Lower Upper

65 100

67 42.4 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

200000

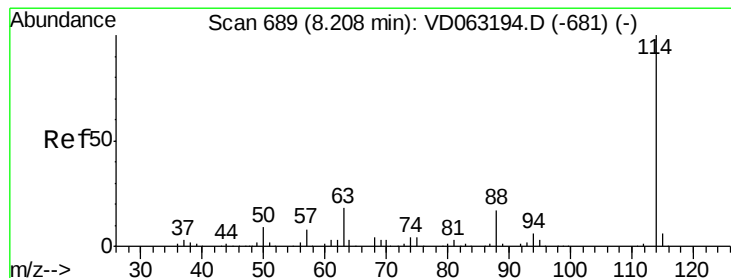
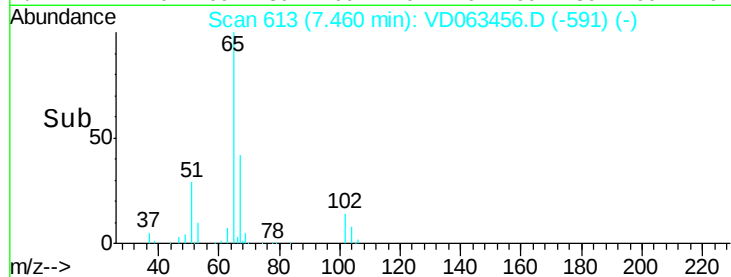
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

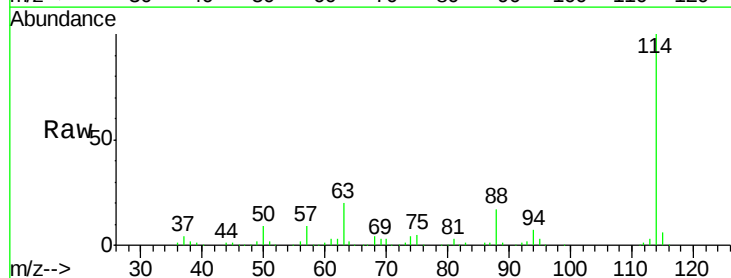
Tgt Ion: 114 Resp: 1333926

Ion Ratio Lower Upper

114 100

63 20.2 0.0 35.2

88 16.8 0.0 34.6



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

8.23

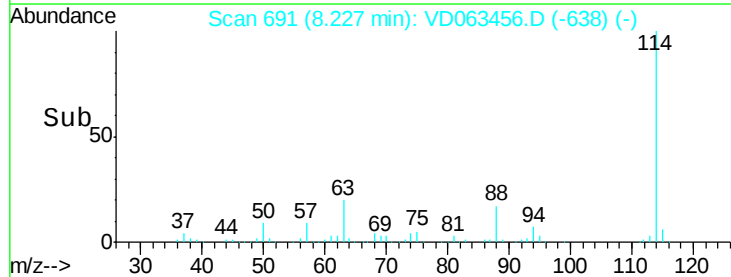
600000

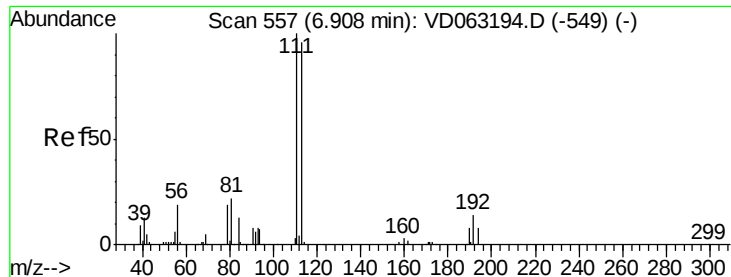
400000

200000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 43.173 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.03 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA\_D

ClientSampleId :

SP-10

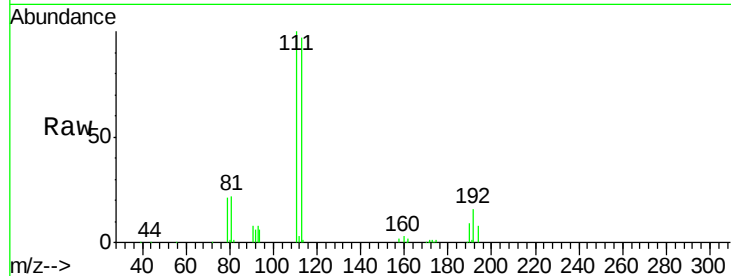
Tot Ion:113 Resp: 491690

Ion Ratio Lower Upper

113 100

111 103.0 83.2 124.8

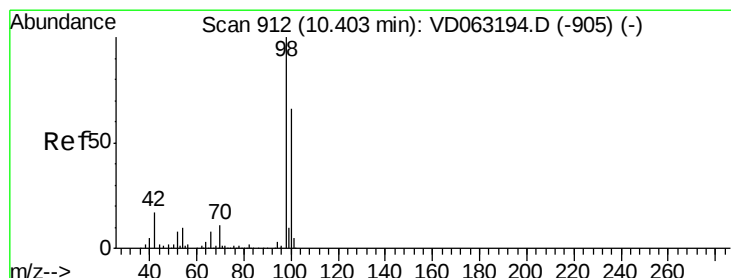
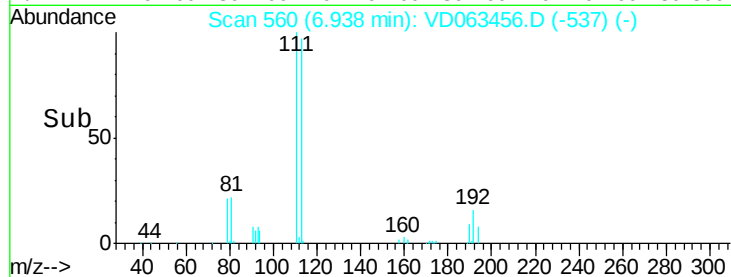
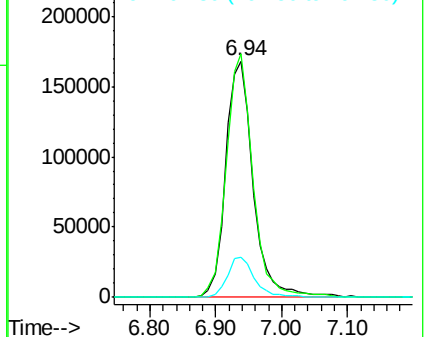
192 17.0 11.8 17.8



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



#50

Toluene-d8

Concen: 36.120 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD063456.D

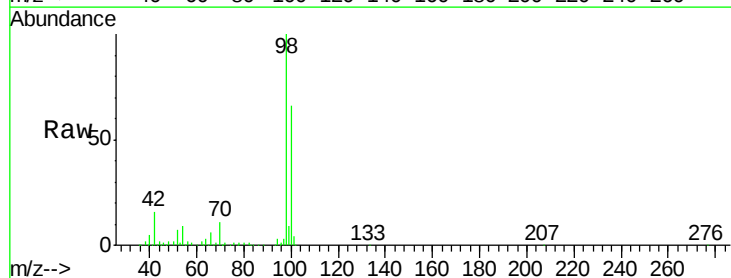
Acq: 9 Aug 2019 1:09

Tgt Ion: 98 Resp: 920640

Ion Ratio Lower Upper

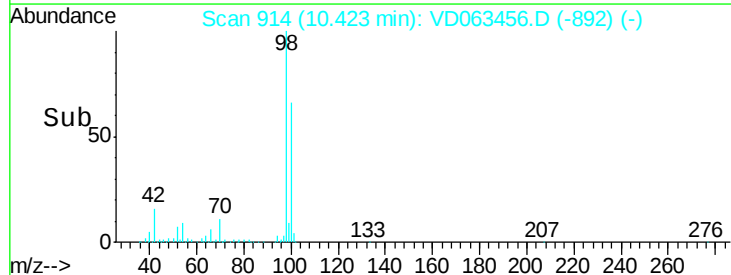
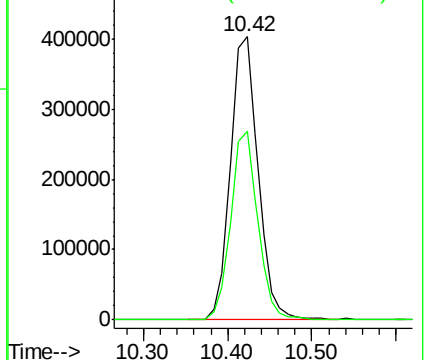
98 100

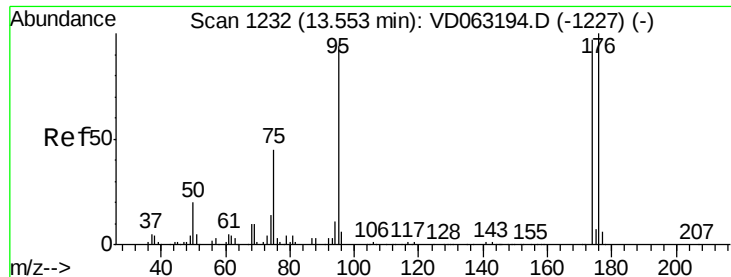
100 66.5 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: 24.007 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA\_D

ClientSampled :

SP-10

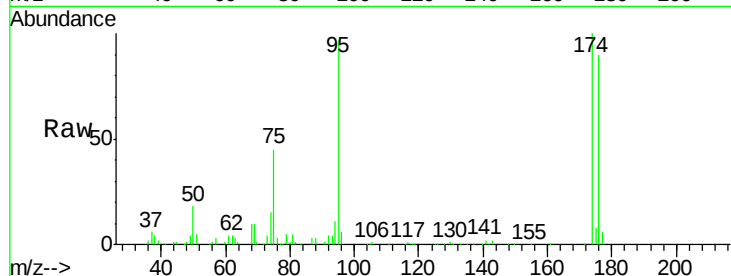
Tot Ion: 95 Resp: 278838

Ion Ratio Lower Upper

95 100

174 102.6 0.0 205.4

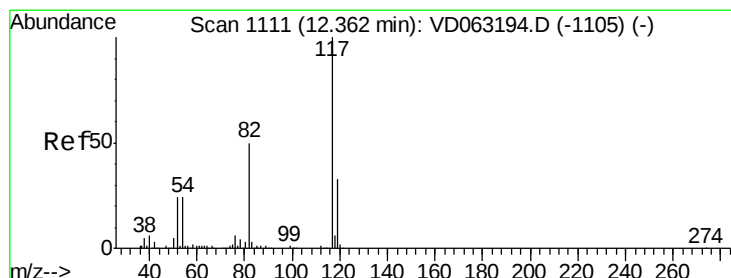
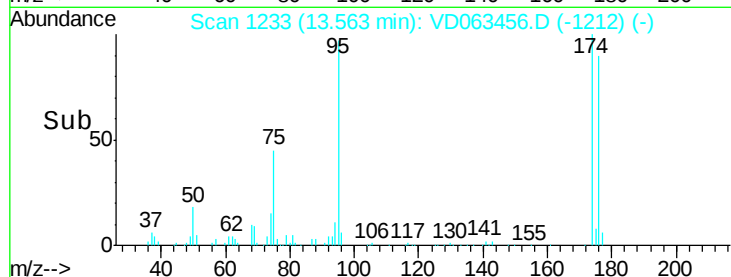
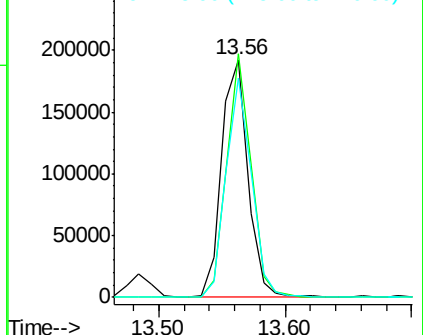
176 92.5 0.0 211.8



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. 0.01 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

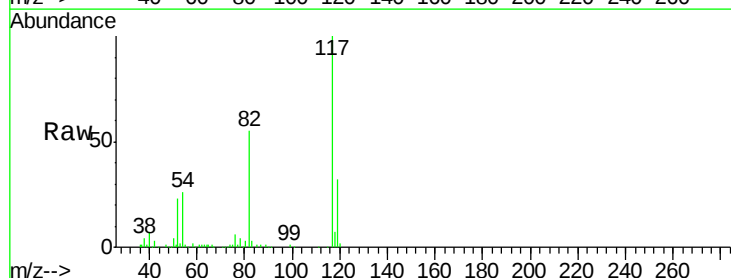
Tgt Ion: 117 Resp: 860793

Ion Ratio Lower Upper

117 100

82 55.4 40.1 60.1

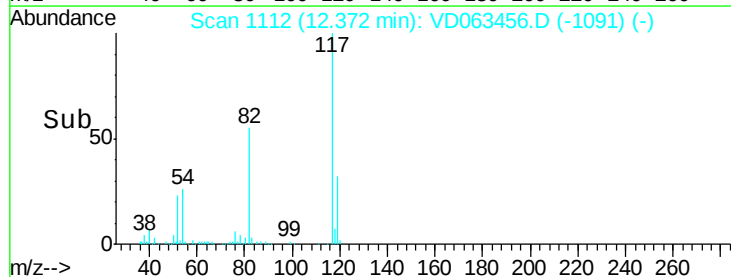
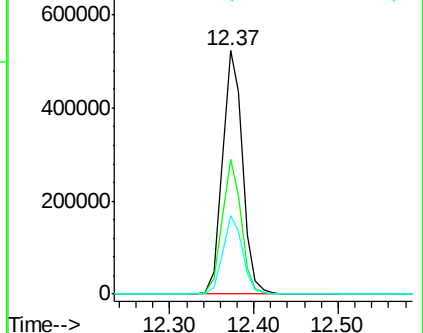
119 32.4 26.5 39.7

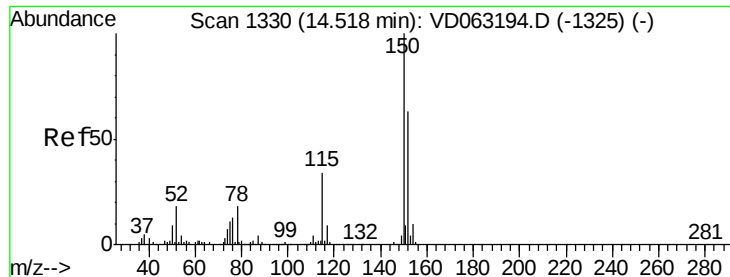


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

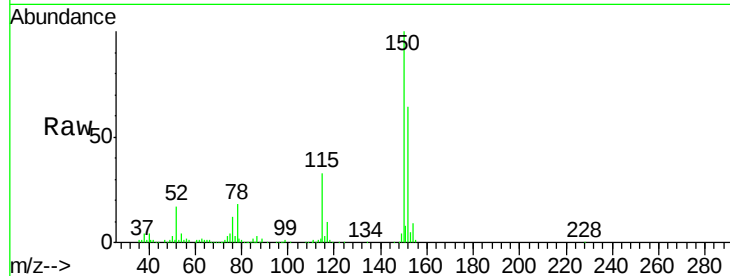




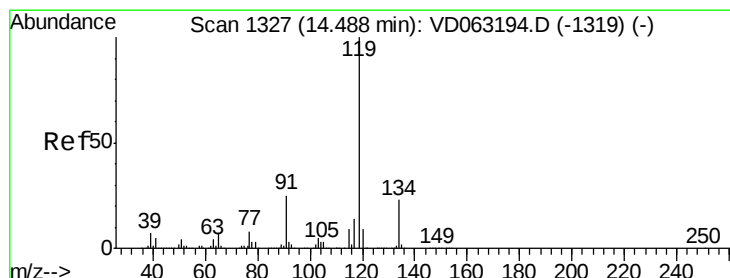
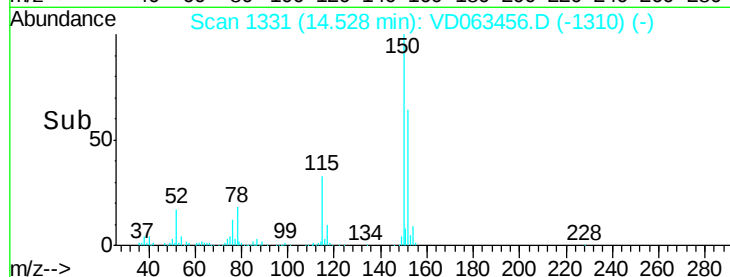
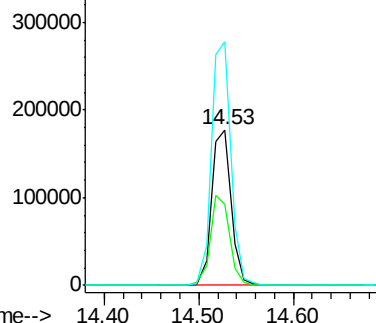
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.53 min Scan# 1331  
 Delta R.T. 0.01 min  
 Lab File: VD063456.D  
 Acq: 9 Aug 2019 1:09

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP-10

Tot Ion:152 Resp: 254433  
 Ion Ratio Lower Upper  
 152 100  
 115 51.7 27.5 82.4  
 150 156.3 0.0 320.6

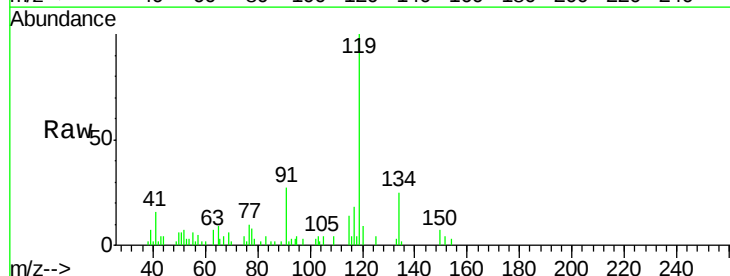


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 115.00 (114.70 to 115.70): V  
 Ion 149.90 (149.60 to 150.60): V

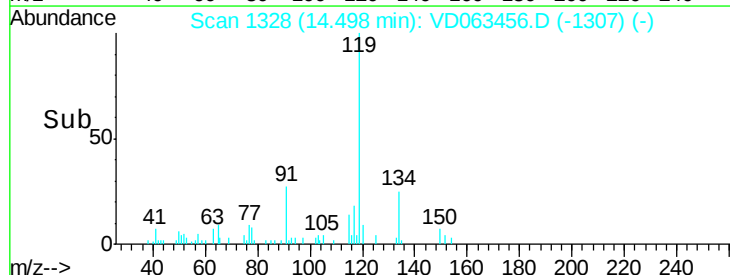
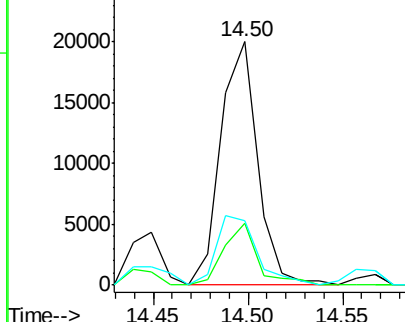


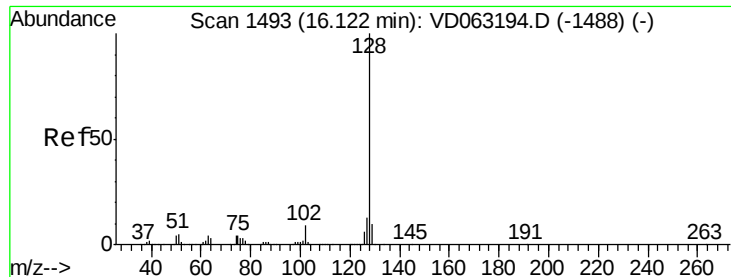
#86  
 p-Isopropyltoluene  
 Concen: 1.704 ug/l  
 RT: 14.50 min Scan# 1328  
 Delta R.T. 0.01 min  
 Lab File: VD063456.D  
 Acq: 9 Aug 2019 1:09

Tgt Ion:119 Resp: 26946  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 11.5 34.5  
 91 26.6 12.6 37.6



Abundance Ion 119.05 (118.75 to 119.75): V  
 Ion 134.10 (133.80 to 134.80): V  
 Ion 91.00 (90.70 to 91.70): V





#95  
Naphthalene  
Concen: 1.220 ug/l  
RT: 16.13 min Scan# 1494  
Delta R.T. 0.01 min  
Lab File: VD063456.D  
Acq: 9 Aug 2019 1:09

Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-10

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 15.5  | 10.2  | 15.4# |
| 129     | 16.3  | 7.8   | 11.8# |

