

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082118\  
 Data File : VD059854.D  
 Acq On : 21 Aug 2018 14:29  
 Operator : JC/SY  
 Sample : J4511-09  
 Misc : 5.05g/5ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-081518-FL-031

Quant Time: Aug 22 01:29:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 21 04:40:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.60  | 168  | 1037198  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.65  | 114  | 1444213  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.66 | 117  | 1029185  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.89 | 152  | 371338   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.98  | 65   | 403641   | 48.62 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 97.24% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 530611   | 49.67 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.34% |          |
| 50) Toluene-d8              | 8.67  | 98   | 1323643  | 45.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.90% |          |
| 62) 4-Bromofluorobenzene    | 11.91 | 95   | 424575   | 38.41 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 76.82% |          |

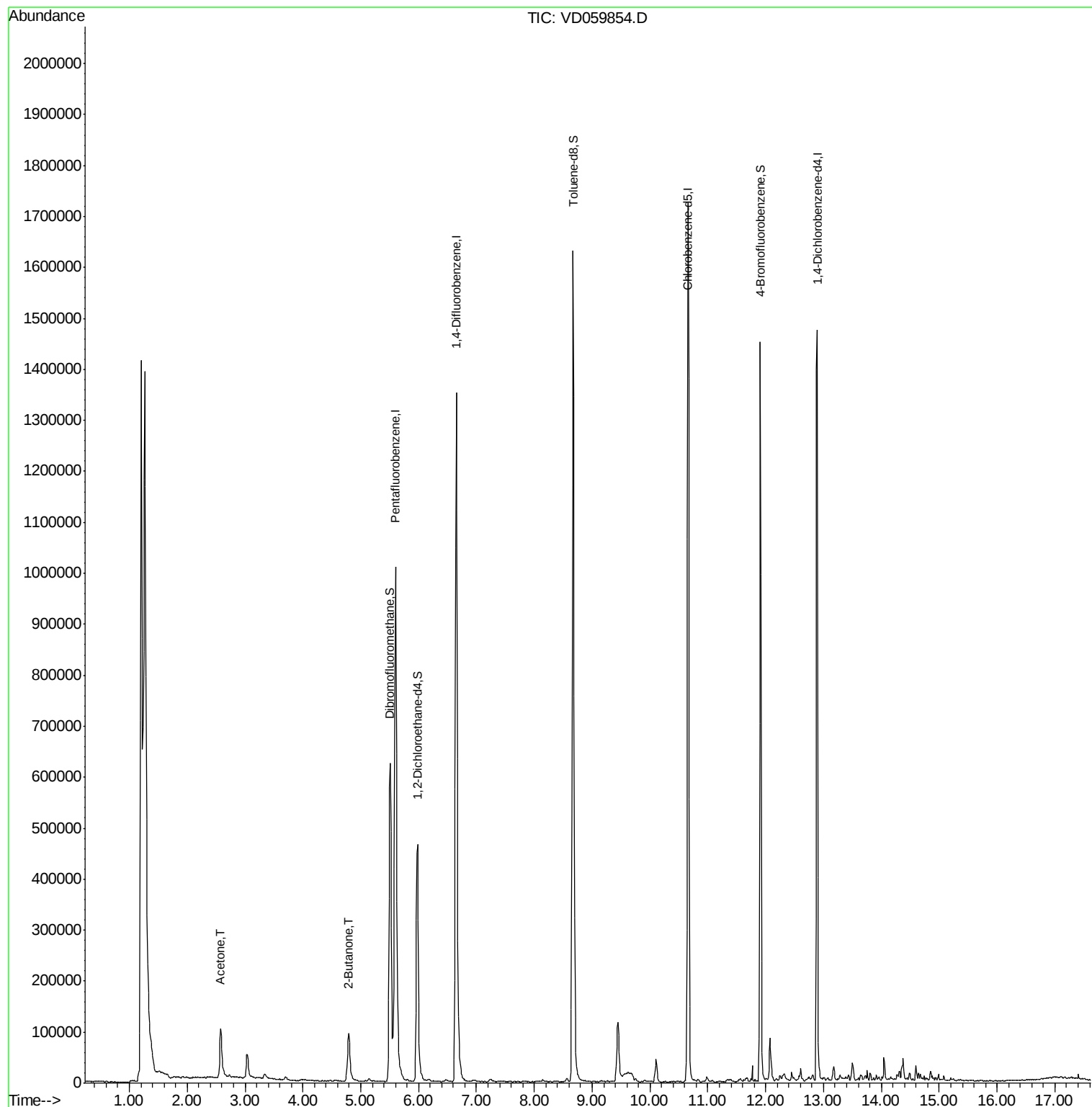
| Target Compounds | R.T. | QIon | Response | Conc   | Units | Qvalue |
|------------------|------|------|----------|--------|-------|--------|
| 16) Acetone      | 2.58 | 43   | 180943   | 130.05 | ug/l  | 98     |
| 25) 2-Butanone   | 4.79 | 43   | 110219   | 26.21  | ug/l  | 97     |

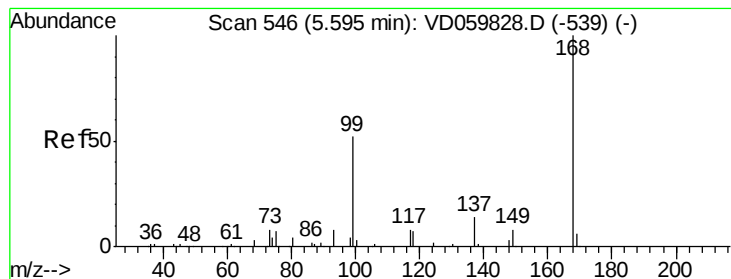
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Aug 21 04:40:12 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.60 min Scan# 546

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA\_D

ClientSampleId :

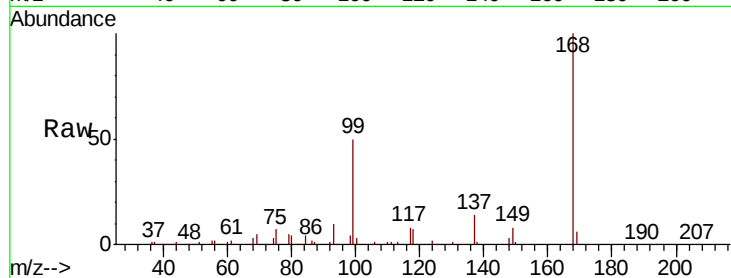
RA-081518-FL-031

Tot Ion:168 Resp: 1037198

Ion Ratio Lower Upper

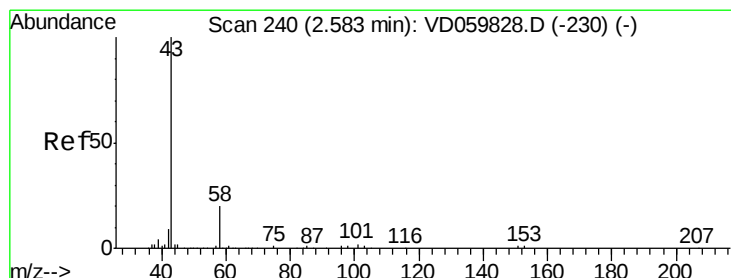
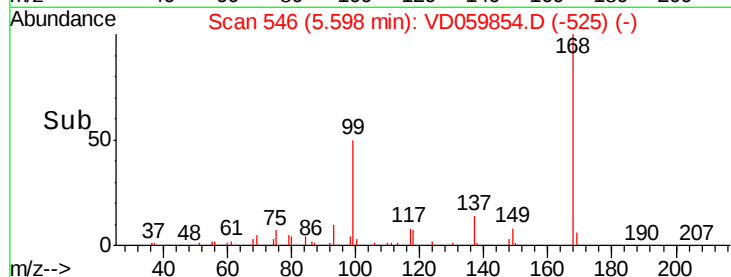
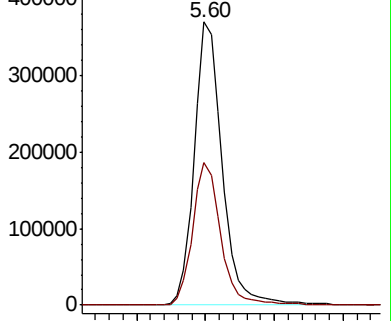
168 100

99 50.4 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 130.05 ug/l

RT: 2.58 min Scan# 239

Delta R.T. -0.01 min

Lab File: VD059854.D

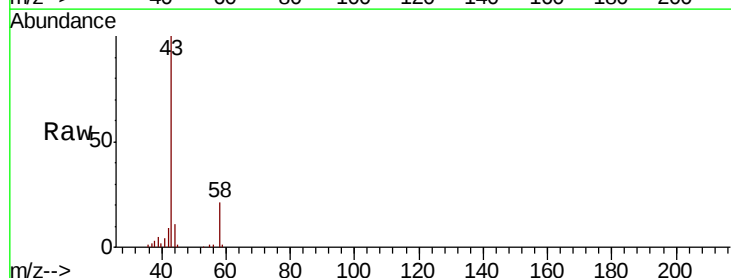
Acq: 21 Aug 2018 14:29

Tgt Ion: 43 Resp: 180943

Ion Ratio Lower Upper

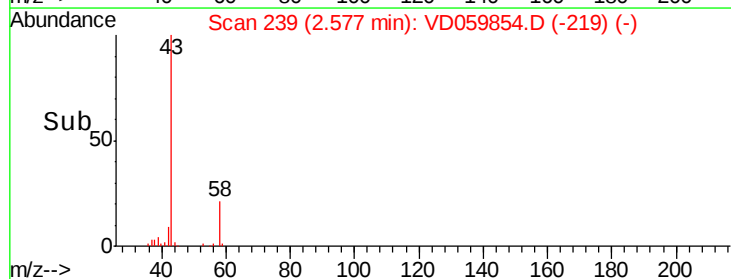
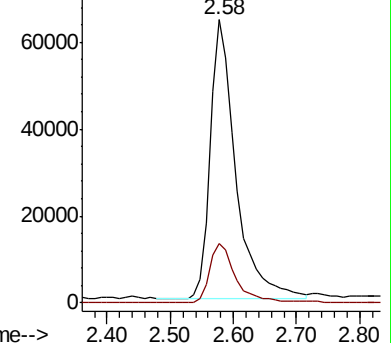
43 100

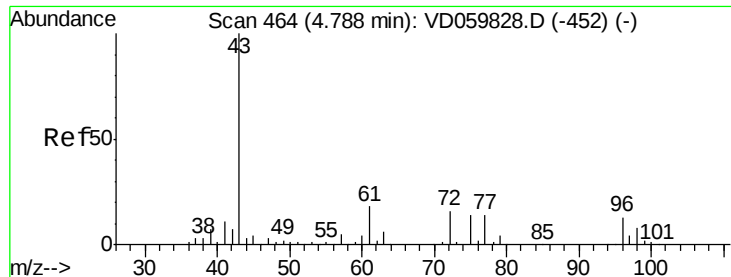
58 20.9 16.2 24.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 26.21 ug/l

RT: 4.79 min Scan# 464

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

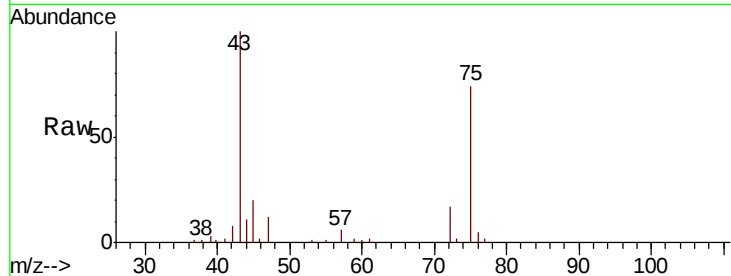
Instrument :  
MSVOA\_D  
ClientSampleId :  
RA-081518-FL-031

Tot Ion: 43 Resp: 110219

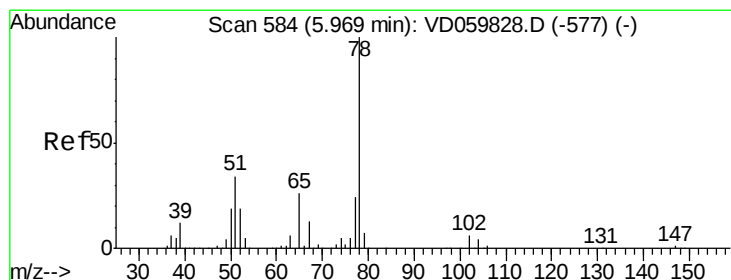
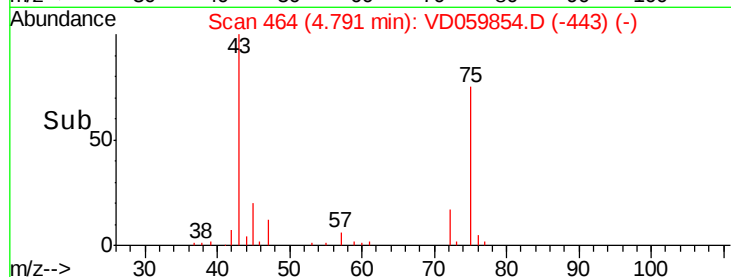
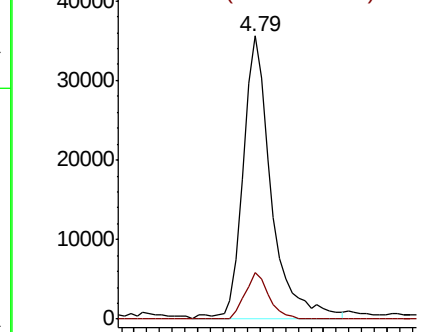
Ion Ratio Lower Upper

43 100

72 16.6 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 5.98 min Scan# 585

Delta R.T. 0.01 min

Lab File: VD059854.D

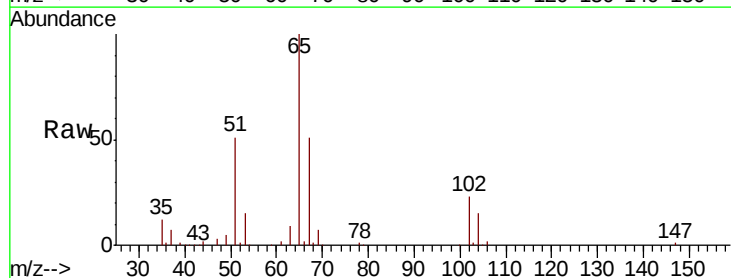
Acq: 21 Aug 2018 14:29

Tgt Ion: 65 Resp: 403641

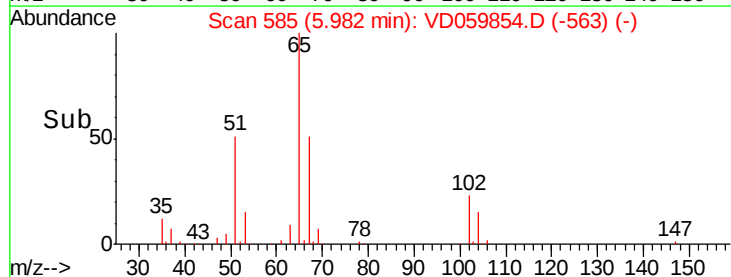
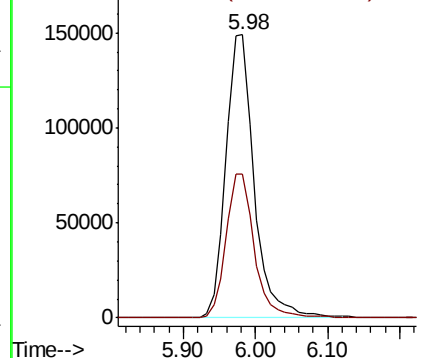
Ion Ratio Lower Upper

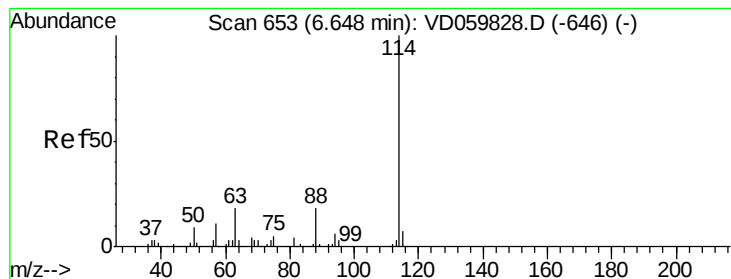
65 100

67 50.9 0.0 102.4



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.65 min Scan# 653

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA\_D

ClientSampleId :

RA-081518-FL-031

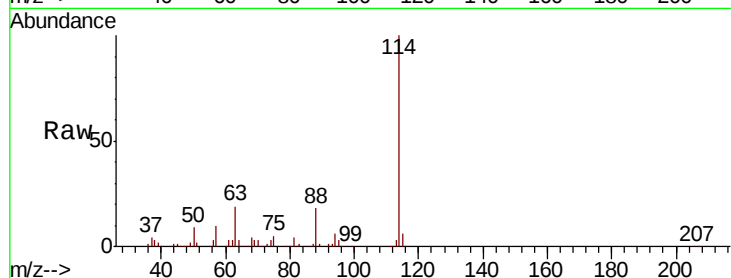
Tot Ion:114 Resp: 1444213

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.0

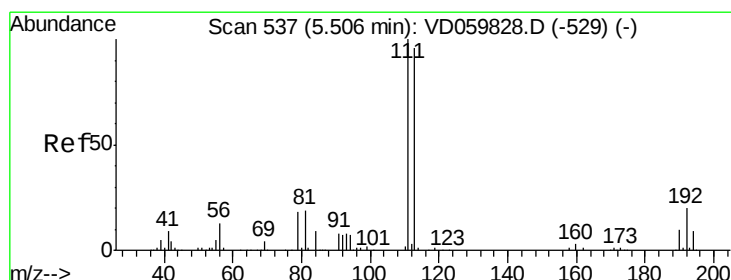
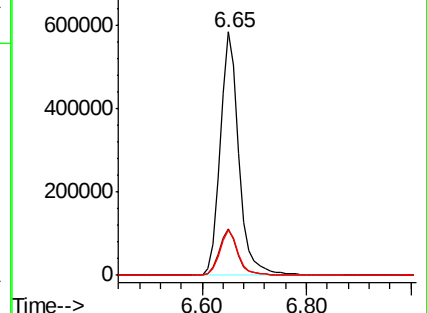
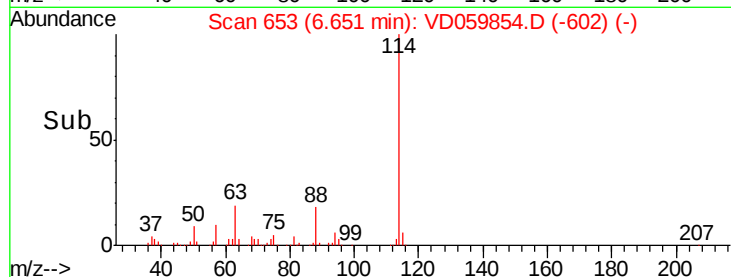
88 18.4 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.51 min Scan# 537

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

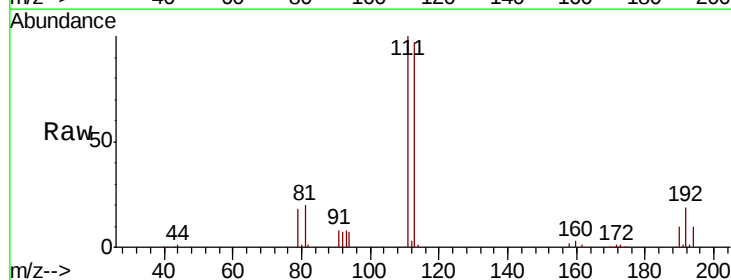
Tgt Ion:113 Resp: 530611

Ion Ratio Lower Upper

113 100

111 103.1 83.3 124.9

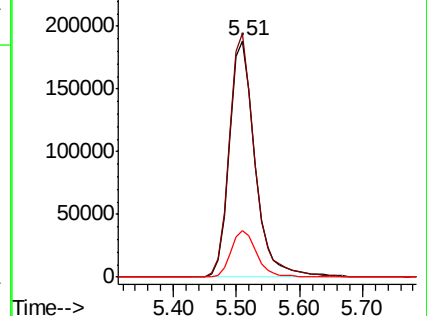
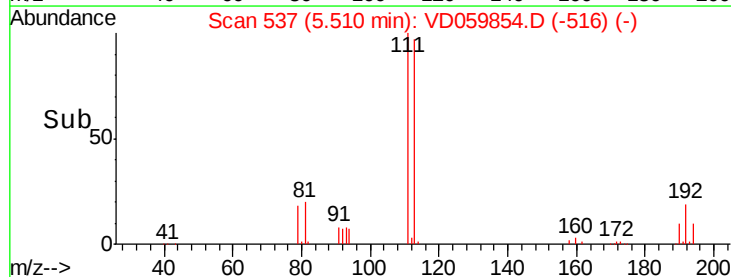
192 19.9 16.8 25.2

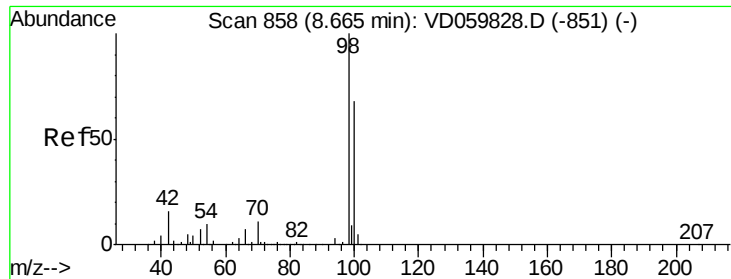


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.67 min Scan# 858

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA\_D

ClientSampleId :

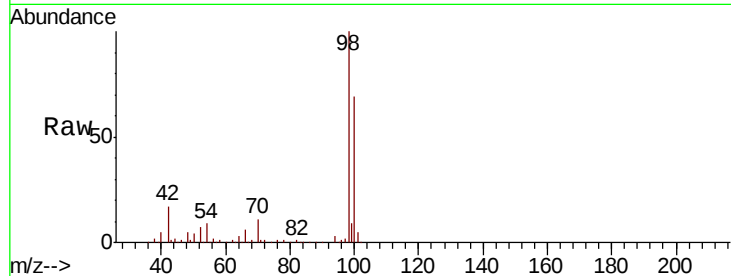
RA-081518-FL-031

Tot Ion: 98 Resp: 1323643

Ion Ratio Lower Upper

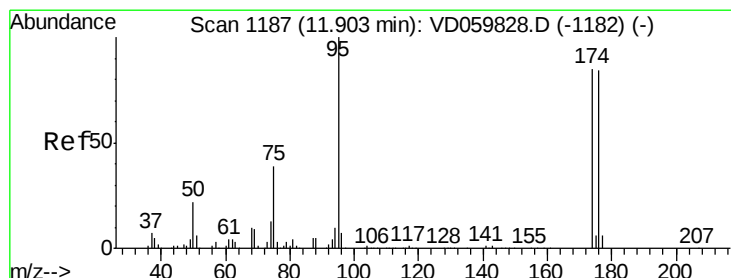
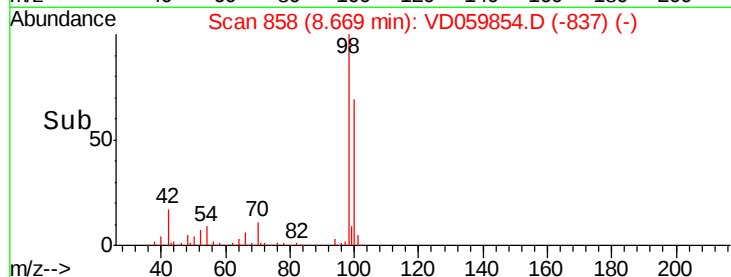
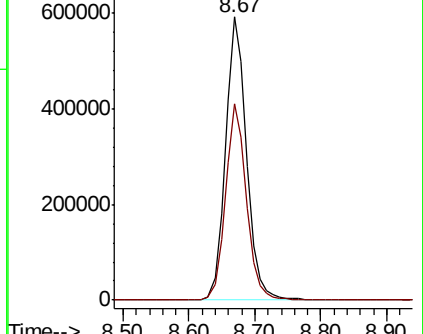
98 100

100 69.4 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

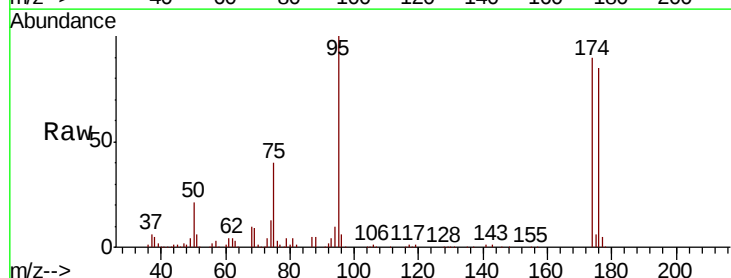
Tgt Ion: 95 Resp: 424575

Ion Ratio Lower Upper

95 100

174 89.5 0.0 169.2

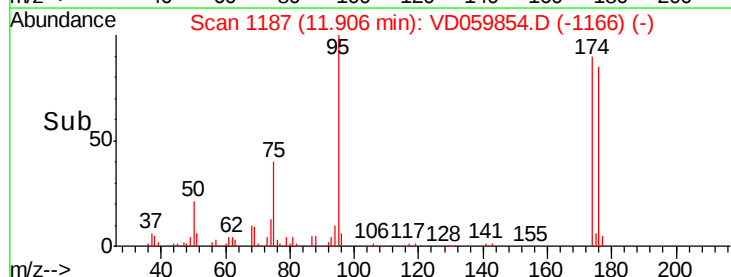
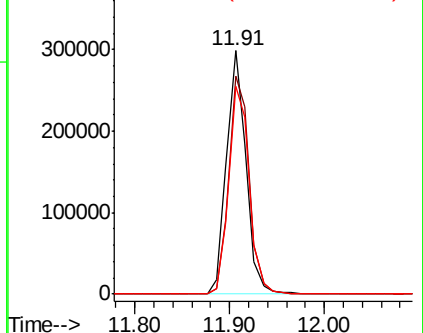
176 85.1 0.0 168.0

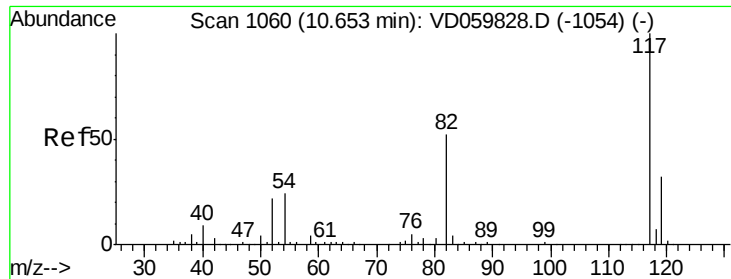


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

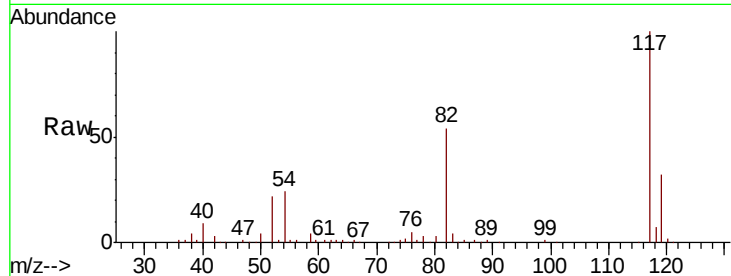




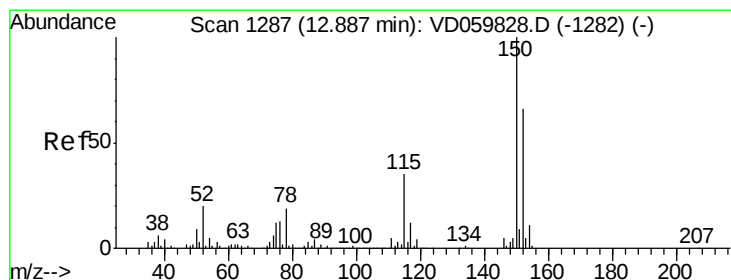
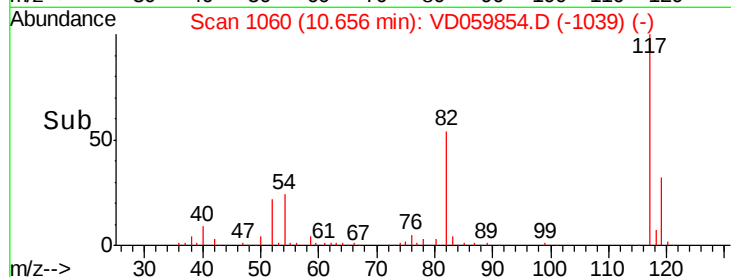
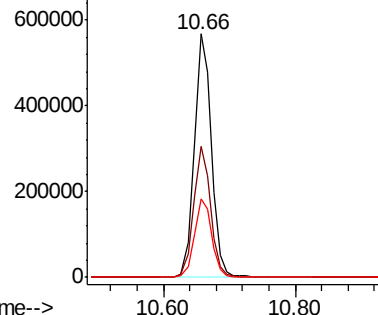
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.66 min Scan# 1060  
Delta R.T. 0.00 min  
Lab File: VD059854.D  
Acq: 21 Aug 2018 14:29

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RA-081518-FL-031

Tot Ion:117 Resp: 1029185  
Ion Ratio Lower Upper  
117 100  
82 54.0 41.6 62.4  
119 32.2 25.6 38.4

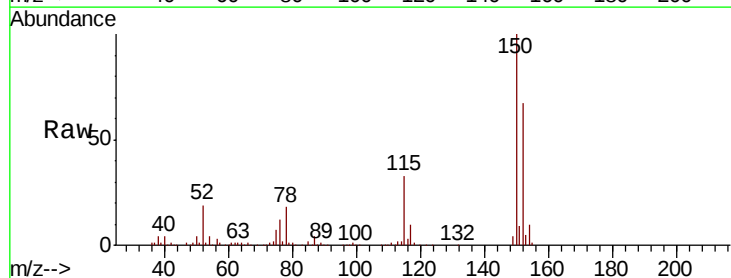


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.89 min Scan# 1287  
Delta R.T. 0.00 min  
Lab File: VD059854.D  
Acq: 21 Aug 2018 14:29

Tgt Ion:152 Resp: 371338  
Ion Ratio Lower Upper  
152 100  
115 49.1 26.9 80.6  
150 149.8 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

