

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121218\  
 Data File : VD060548.D  
 Acq On : 12 Dec 2018 15:45  
 Operator : VA/AP  
 Sample : J6344-01  
 Misc : 5.03/0.5ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RBR-200027

Quant Time: Dec 13 00:49:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

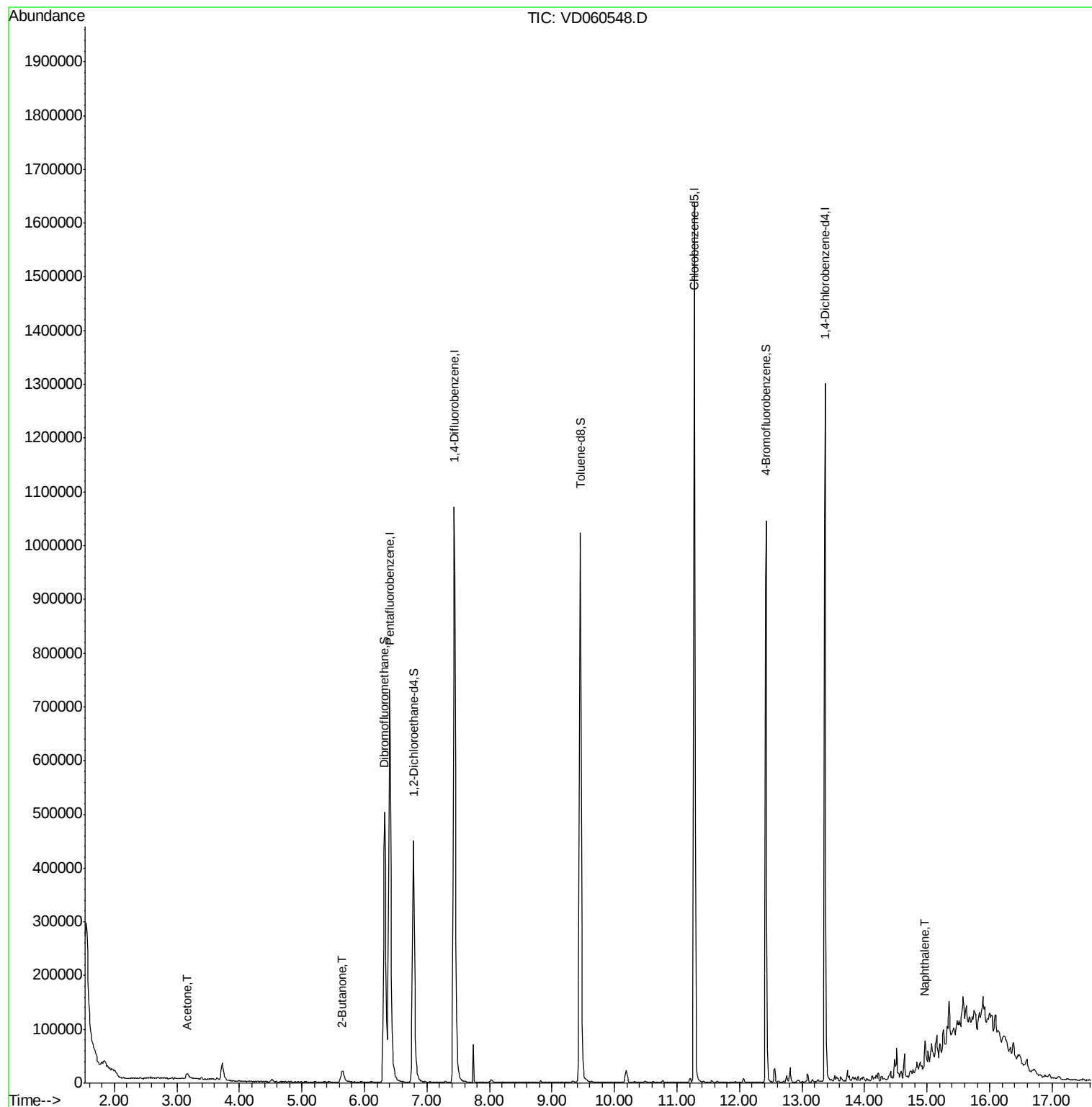
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 6.40  | 168  | 705593   | 50.00  | ug/l    | -0.02    |
| 34) 1,4-Difluorobenzene     | 7.44  | 114  | 1141338  | 50.00  | ug/l    | -0.02    |
| 63) Chlorobenzene-d5        | 11.27 | 117  | 890471   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.37 | 152  | 306310   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.79  | 65   | 380985   | 76.18  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 152.36% |          |
| 35) Dibromofluoromethane    | 6.32  | 113  | 397037   | 47.36  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 94.72%  |          |
| 50) Toluene-d8              | 9.45  | 98   | 865842   | 35.69  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 71.38%  |          |
| 62) 4-Bromofluorobenzene    | 12.43 | 95   | 314467   | 36.23  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 72.46%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 3.16  | 43   | 24530    | 30.599 | ug/l #  | 86       |
| 25) 2-Butanone              | 5.63  | 43   | 14549    | 9.225  | ug/l #  | 84       |
| 95) Naphthalene             | 14.96 | 128  | 23697    | 3.022  | ug/l    | 98       |

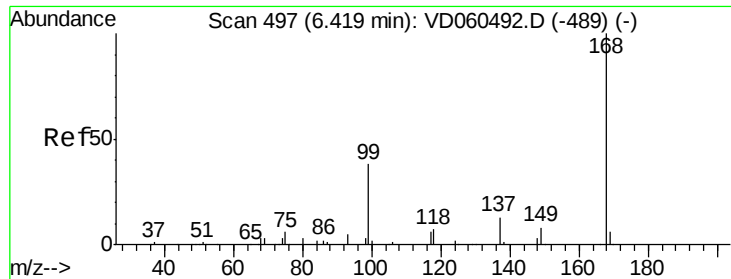
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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RBR-200027

Quant Time: Dec 13 00:49:49 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 06 01:49:20 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060548.D

Acq: 12 Dec 2018 15:45

Instrument :

MSVOA\_D

ClientSampleId :

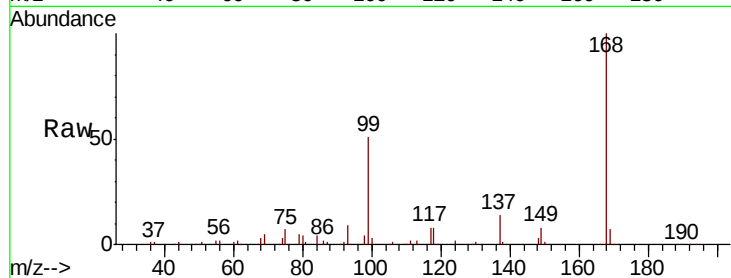
RBR-200027

Tot Ion:168 Resp: 705593

Ion Ratio Lower Upper

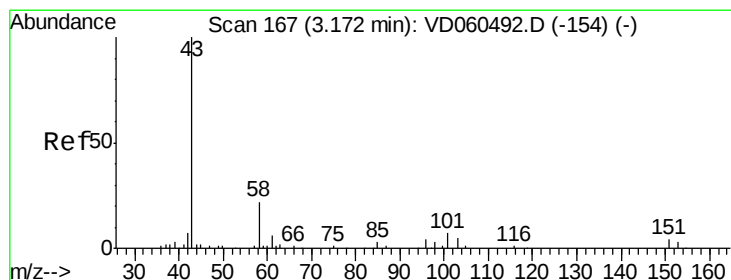
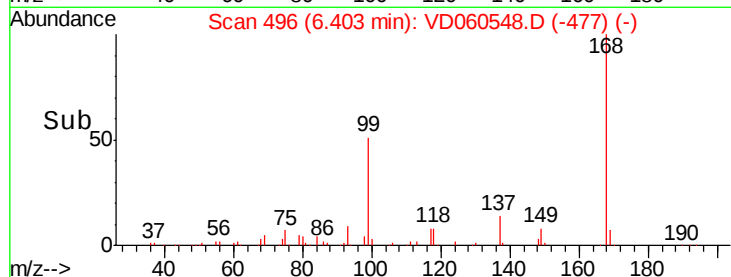
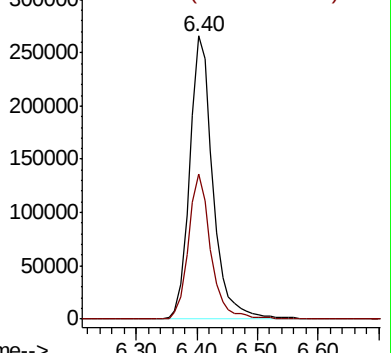
168 100

99 51.1 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 30.599 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.02 min

Lab File: VD060548.D

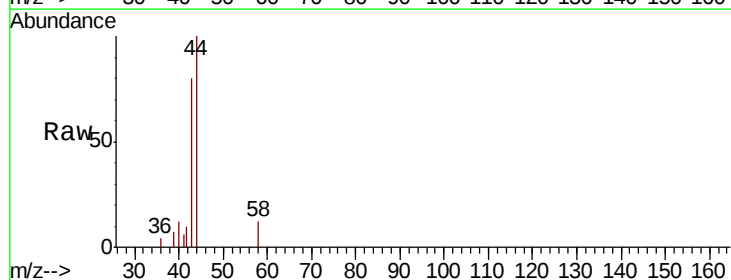
Acq: 12 Dec 2018 15:45

Tgt Ion: 43 Resp: 24530

Ion Ratio Lower Upper

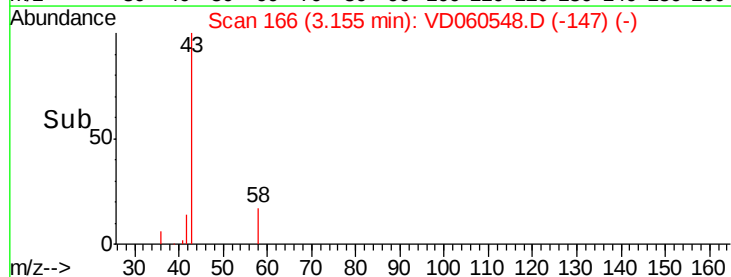
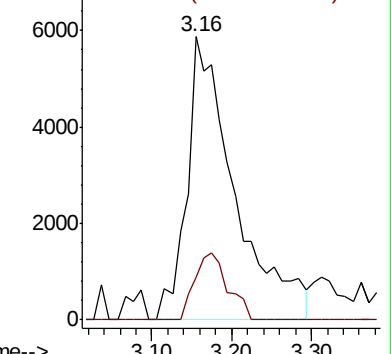
43 100

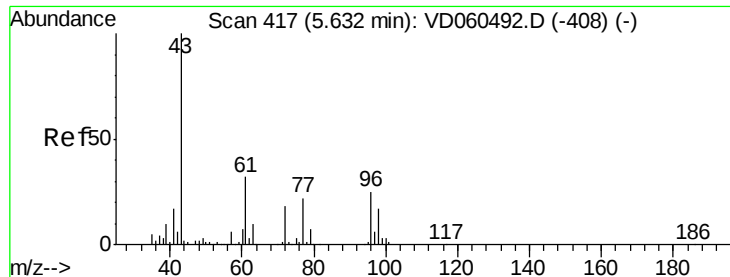
58 14.9 17.3 25.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 9.225 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.01 min

Lab File: VD060548.D

Acq: 12 Dec 2018 15:45

Instrument :

MSVOA\_D

ClientSampleId :

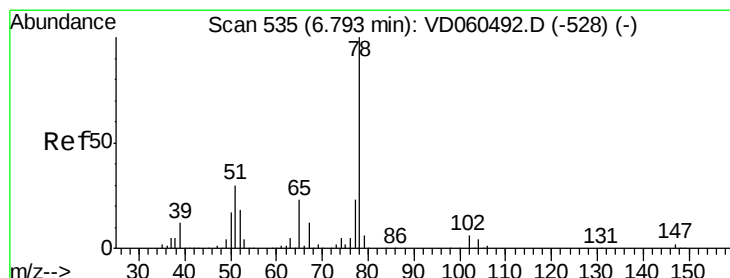
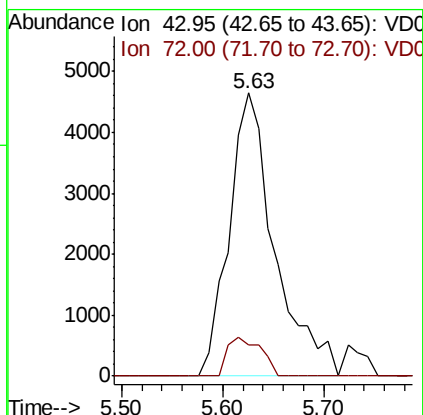
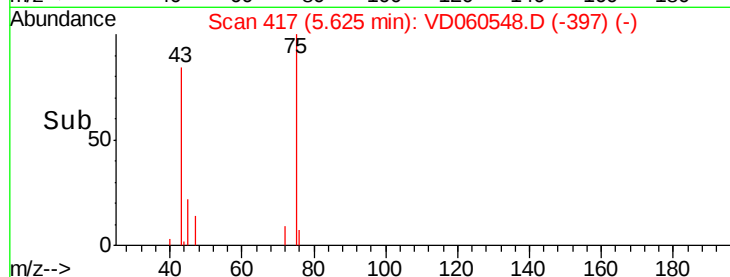
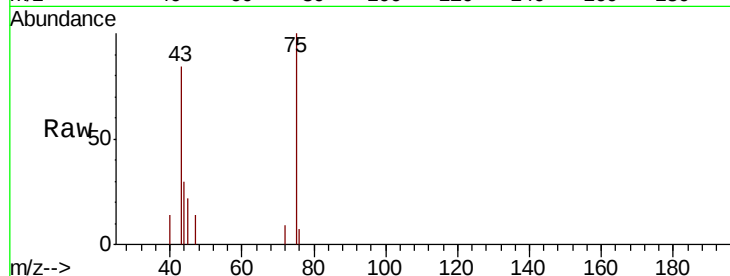
RBR-200027

Tot Ion: 43 Resp: 14549

Ion Ratio Lower Upper

43 100

72 10.9 14.6 21.8#



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060548.D

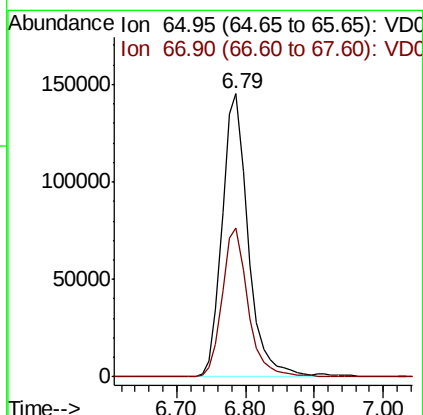
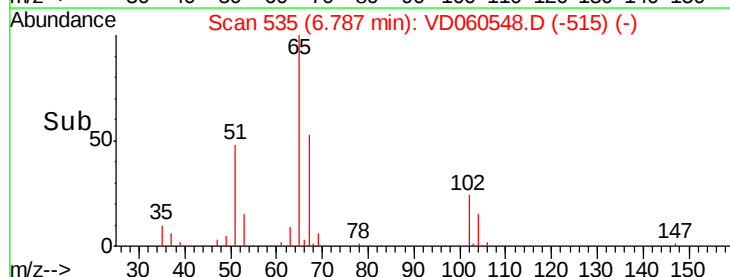
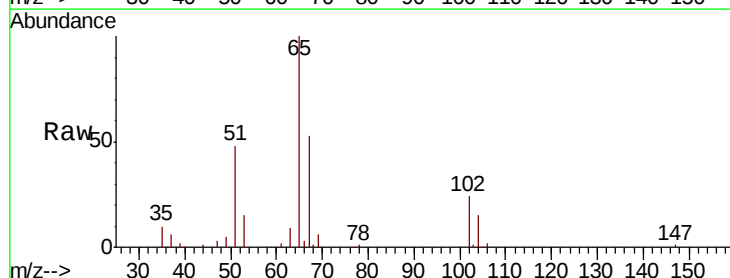
Acq: 12 Dec 2018 15:45

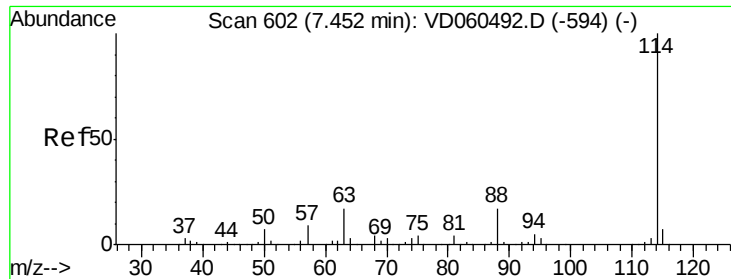
Tgt Ion: 65 Resp: 380985

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060548.D

Acq: 12 Dec 2018 15:45

Instrument :

MSVOA\_D

ClientSampleId :

RBR-200027

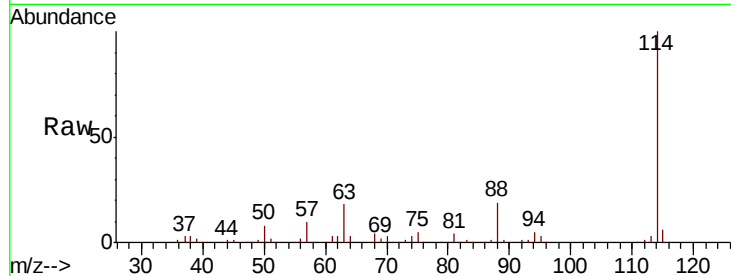
Tot Ion:114 Resp: 1141338

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.2

88 18.7 0.0 35.0



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

600000

500000

400000

300000

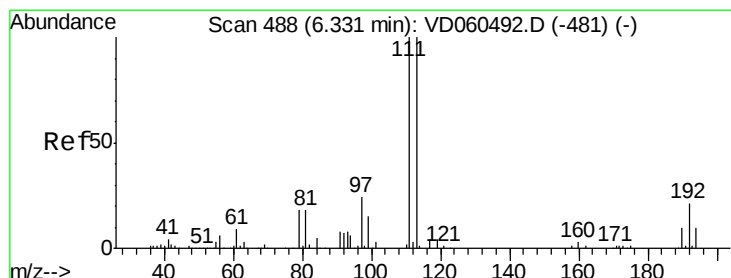
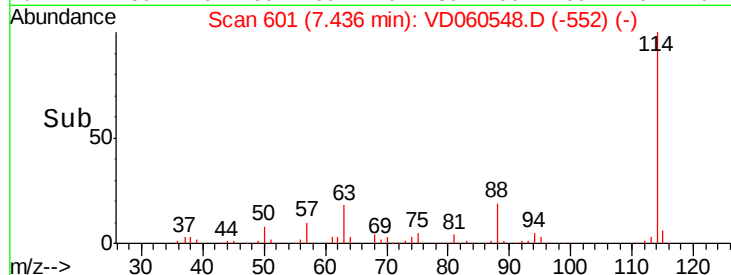
200000

100000

0

7.30 7.40 7.50 7.60 7.70

Time-->



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 488

Delta R.T. -0.01 min

Lab File: VD060548.D

Acq: 12 Dec 2018 15:45

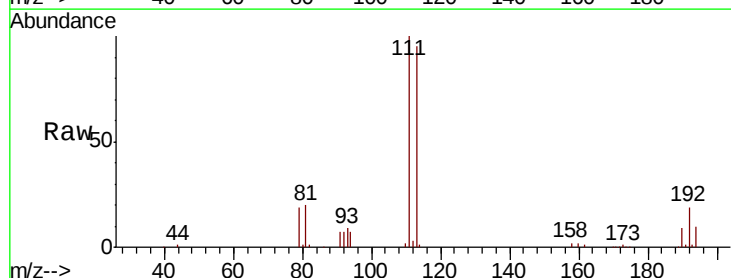
Tgt Ion:113 Resp: 397037

Ion Ratio Lower Upper

113 100

111 105.0 80.2 120.4

192 20.2 16.6 24.8



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

200000

150000

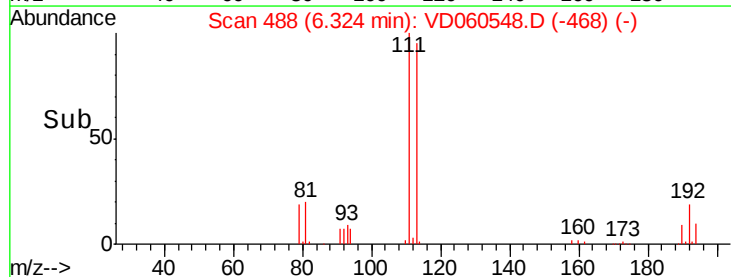
100000

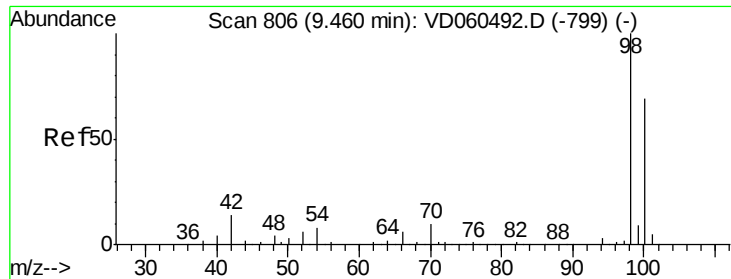
50000

0

6.20 6.30 6.40 6.50

Time-->

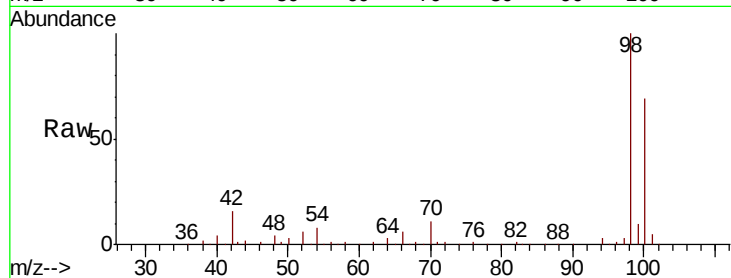




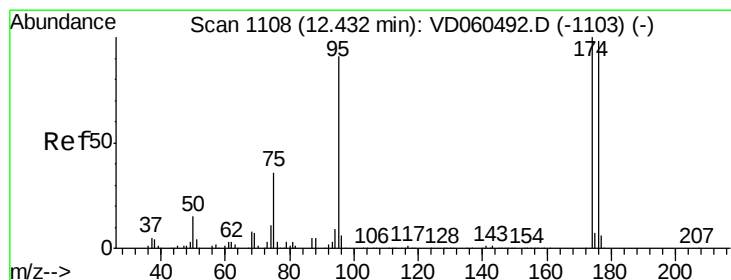
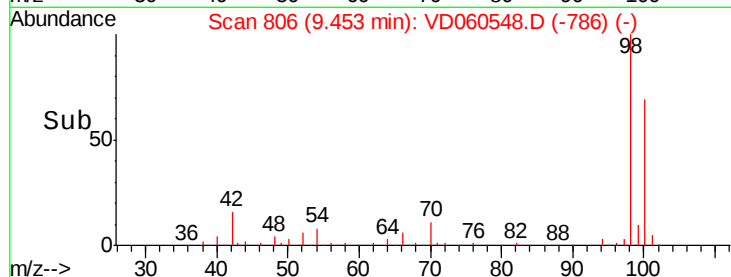
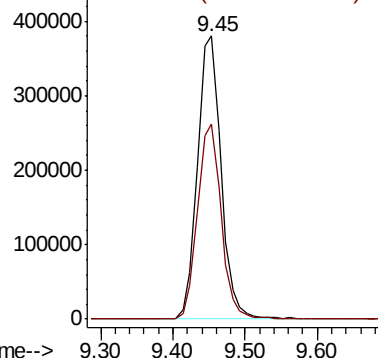
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.45 min Scan# 806  
Delta R.T. -0.01 min  
Lab File: VD060548.D  
Acq: 12 Dec 2018 15:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-200027

Tot Ion: 98 Resp: 865842  
Ion Ratio Lower Upper  
98 100  
100 69.0 55.7 83.5

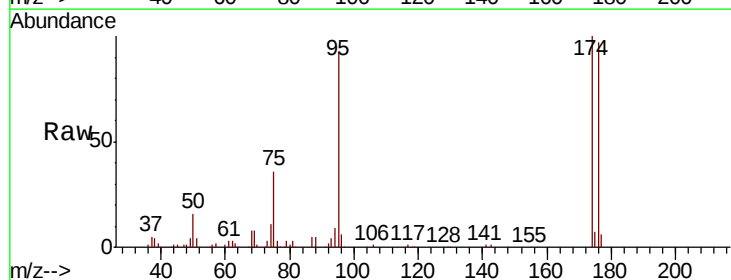


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

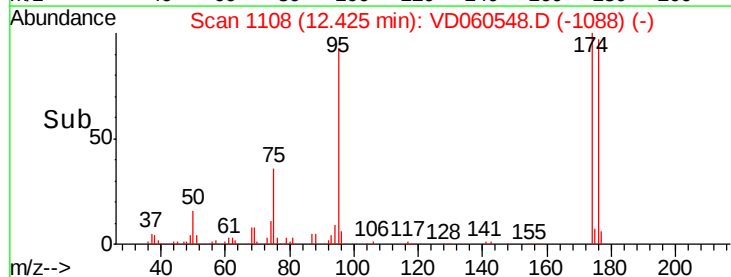
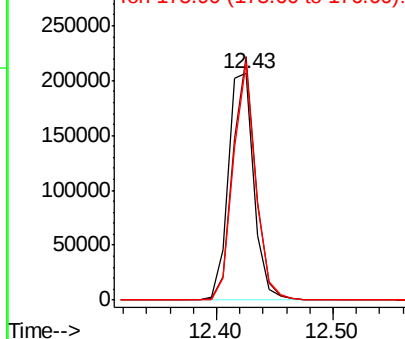


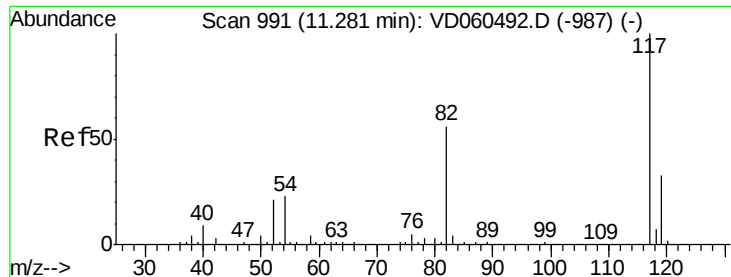
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. -0.01 min  
Lab File: VD060548.D  
Acq: 12 Dec 2018 15:45

Tgt Ion: 95 Resp: 314467  
Ion Ratio Lower Upper  
95 100  
174 107.5 0.0 219.4  
176 104.6 0.0 214.6



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

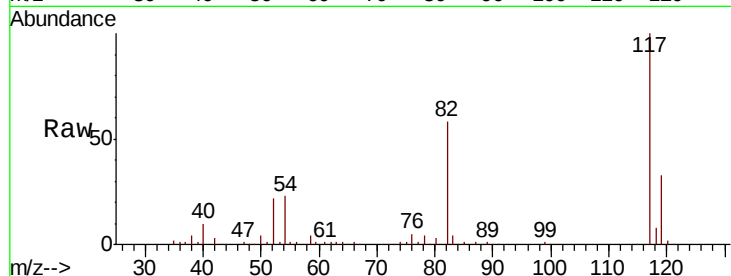




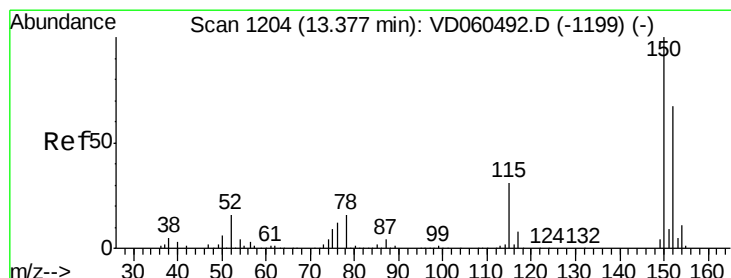
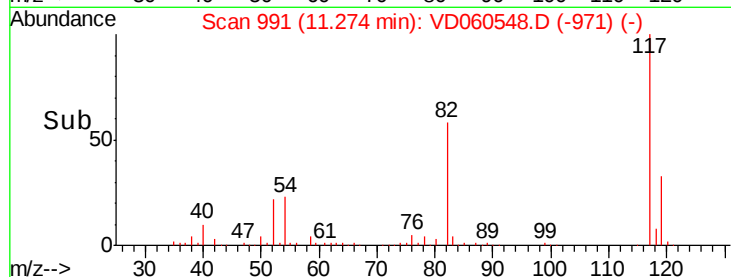
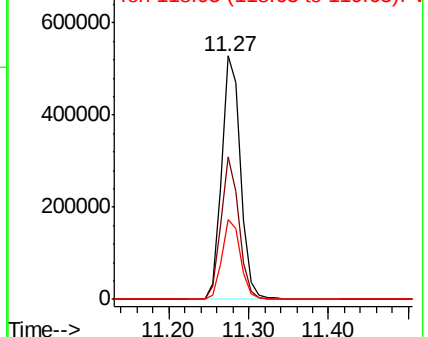
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VD060548.D  
Acq: 12 Dec 2018 15:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-200027

Tot Ion:117 Resp: 890471  
Ion Ratio Lower Upper  
117 100  
82 58.3 45.2 67.8  
119 32.6 26.1 39.1

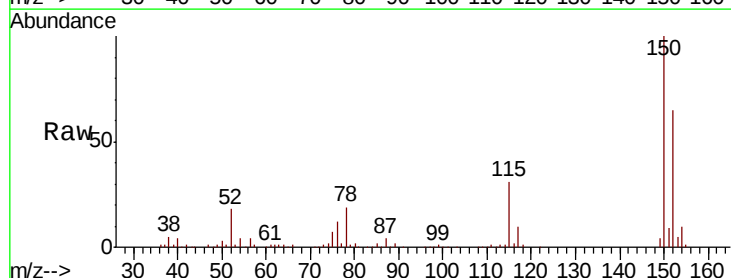


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): VD  
Ion 118.95 (118.65 to 119.65): V

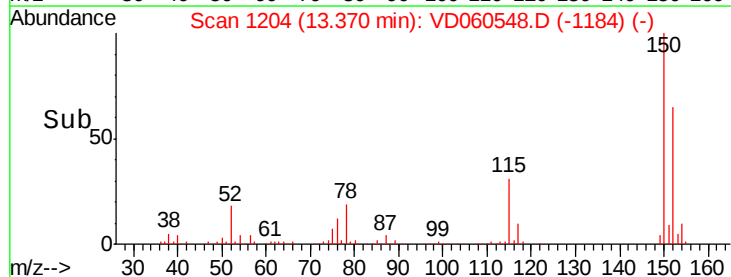
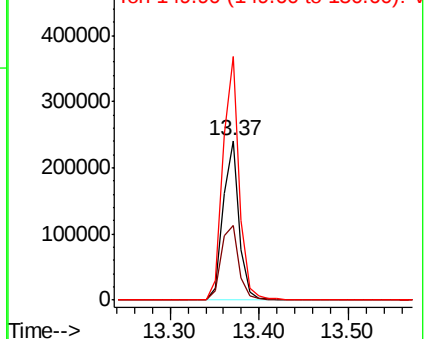


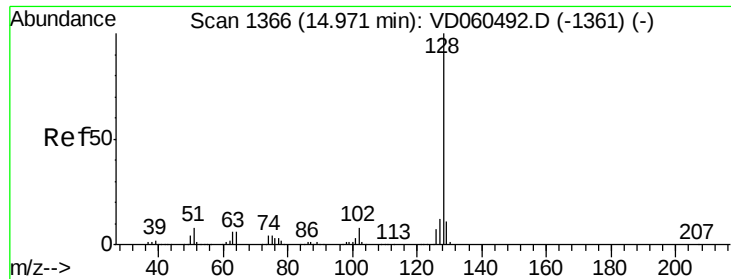
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.37 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: VD060548.D  
Acq: 12 Dec 2018 15:45

Tgt Ion:152 Resp: 306310  
Ion Ratio Lower Upper  
152 100  
115 47.0 24.6 74.0  
150 152.7 0.0 309.0



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





#95

Naphthalene

Concen: 3.022 ug/l

RT: 14.96 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VD060548.D

Acq: 12 Dec 2018 15:45

Instrument :

MSVOA\_D

ClientSampleId :

RBR-200027

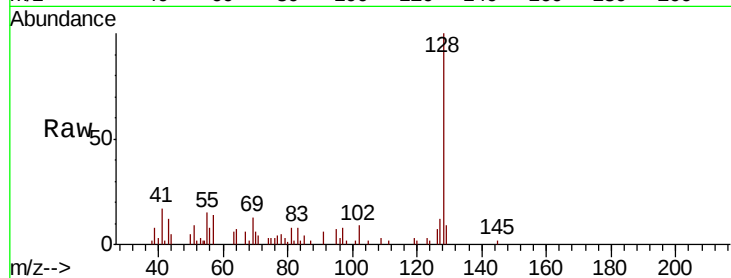
Tot Ion:128 Resp: 23697

Ion Ratio Lower Upper

128 100

127 12.2 9.8 14.8

129 9.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

