

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100918\  
 Data File : VD060146.D  
 Acq On : 9 Oct 2018 11:31  
 Operator : VA/AP  
 Sample : VD1009SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1009SBL01

Quant Time: Oct 09 14:25:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.38  | 168  | 1649342  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.41  | 114  | 2249336  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1813455  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 950712   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.76   | 65  | 648388   | 51.86 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.72% |      |
| 35) Dibromofluoromethane    | 6.29   | 113 | 856289   | 50.13 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.26% |      |
| 50) Toluene-d8              | 9.43   | 98  | 2417777  | 49.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.28%  |      |
| 62) 4-Bromofluorobenzene    | 12.41  | 95  | 883639   | 48.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.90%  |      |

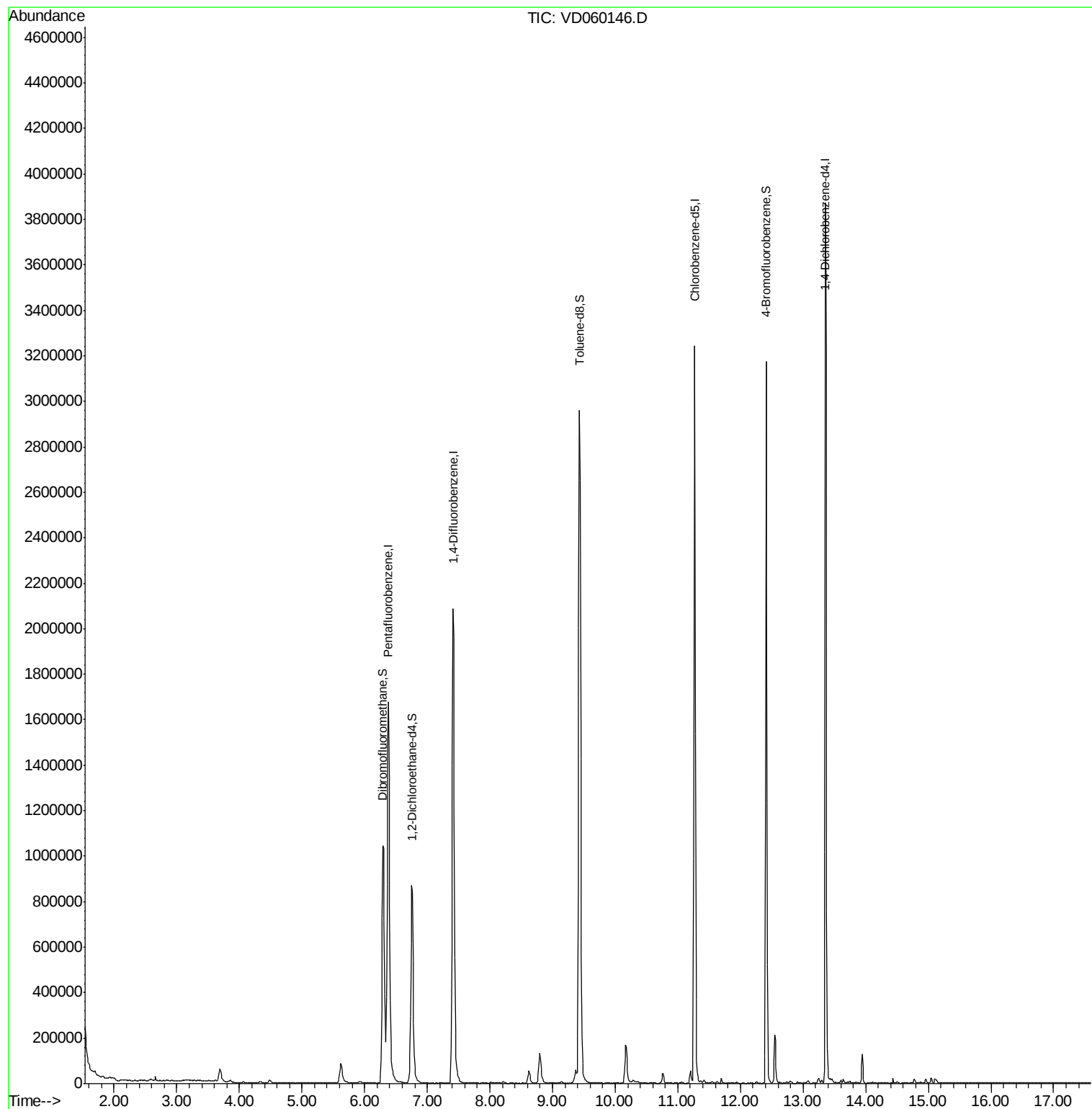
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

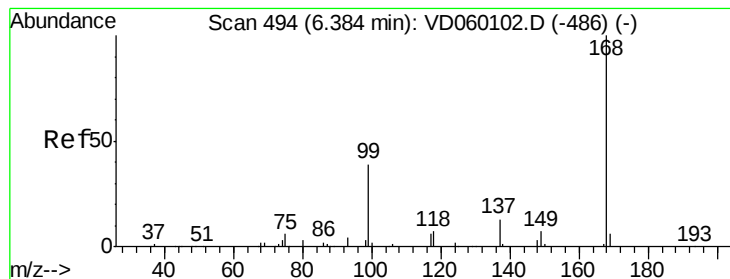
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :  
VD1009SBL01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 06:56:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 493

Delta R.T. -0.01 min

Lab File: VD060146.D

Acq: 9 Oct 2018 11:31

Instrument :

MSVOA\_D

ClientSampleId :

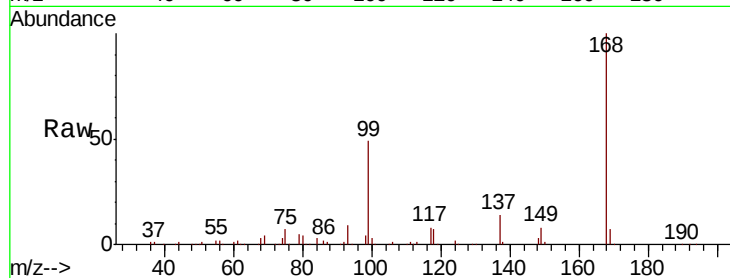
VD1009SBL01

Tot Ion:168 Resp: 1649342

Ion Ratio Lower Upper

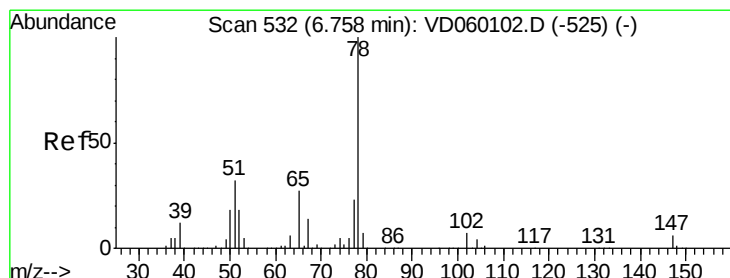
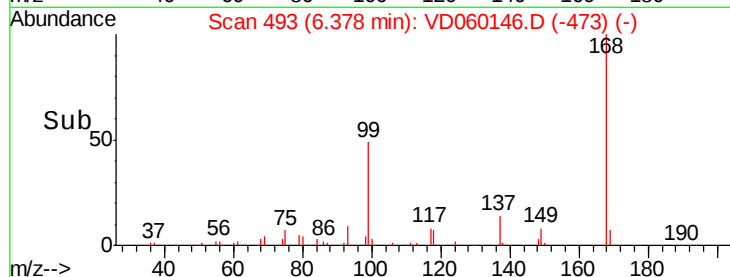
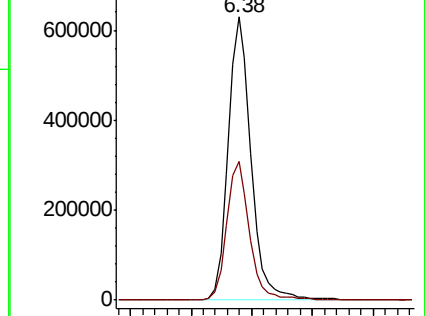
168 100

99 49.2 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.76 min Scan# 532

Delta R.T. 0.00 min

Lab File: VD060146.D

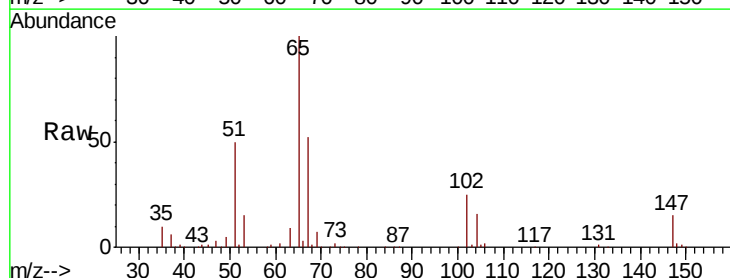
Acq: 9 Oct 2018 11:31

Tgt Ion: 65 Resp: 648388

Ion Ratio Lower Upper

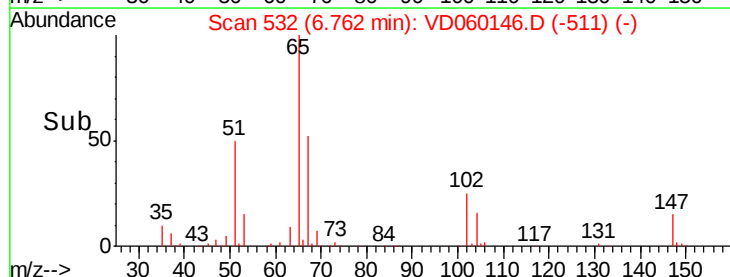
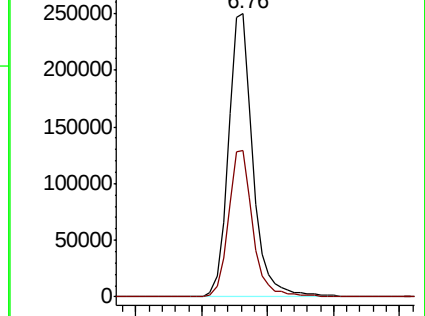
65 100

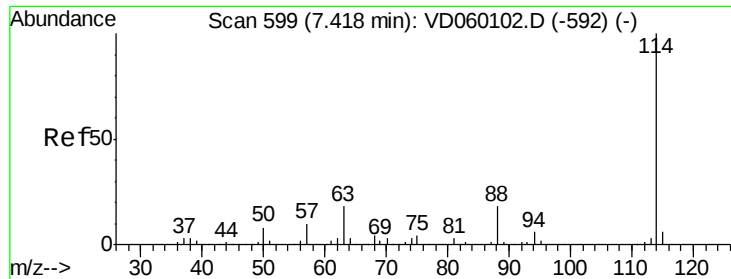
67 51.6 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

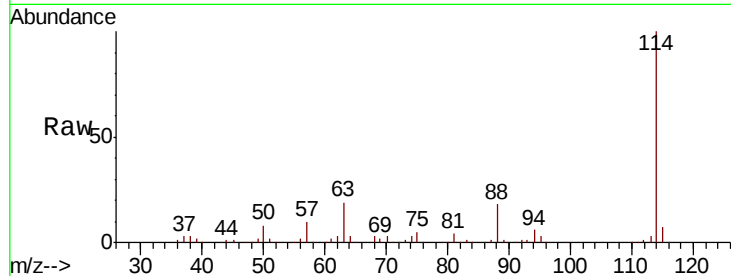




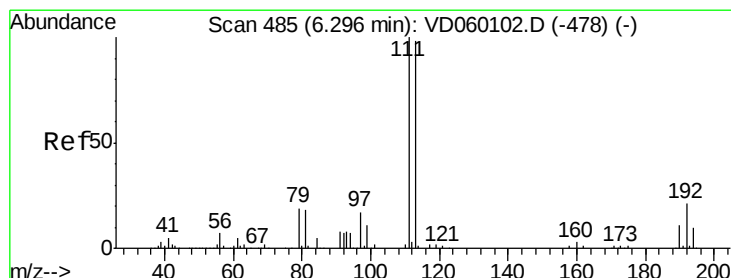
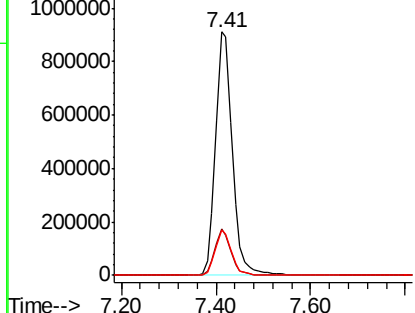
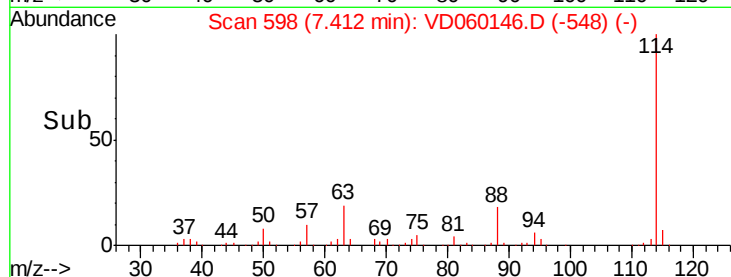
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.41 min Scan# 598  
 Delta R.T. -0.01 min  
 Lab File: VD060146.D  
 Acq: 9 Oct 2018 11:31

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1009SBL01

Tot Ion:114 Resp: 2249336  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 36.0  
 88 18.5 0.0 36.2

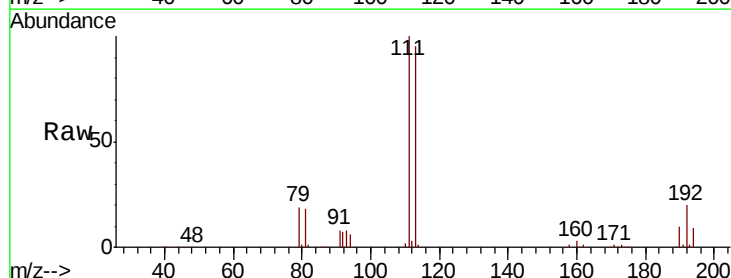


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

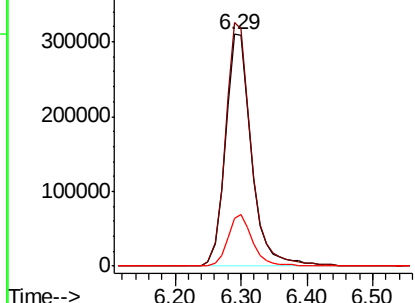
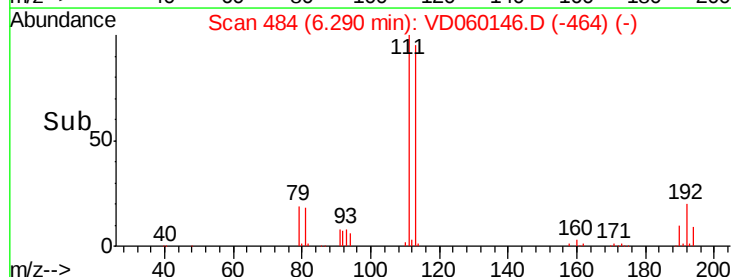


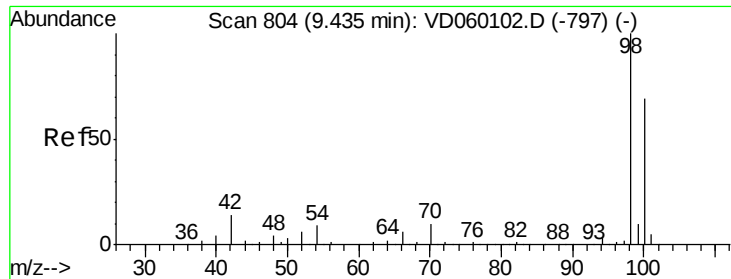
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.29 min Scan# 484  
 Delta R.T. -0.01 min  
 Lab File: VD060146.D  
 Acq: 9 Oct 2018 11:31

Tgt Ion:113 Resp: 856289  
 Ion Ratio Lower Upper  
 113 100  
 111 105.0 81.5 122.3  
 192 20.9 17.4 26.0



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

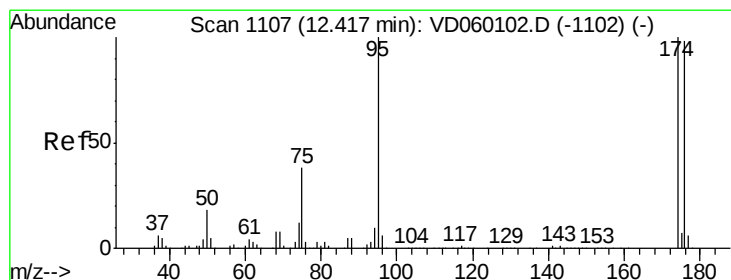
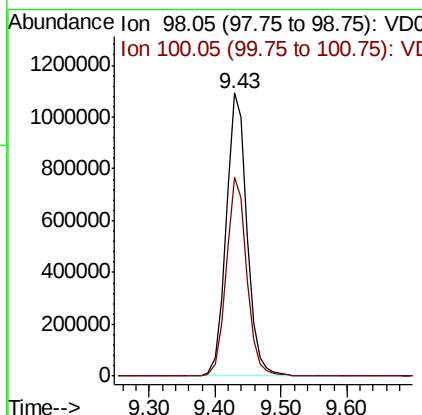
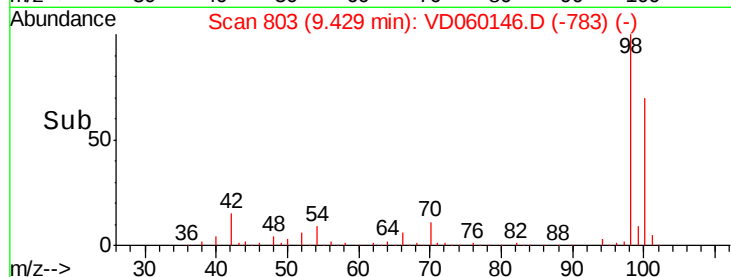
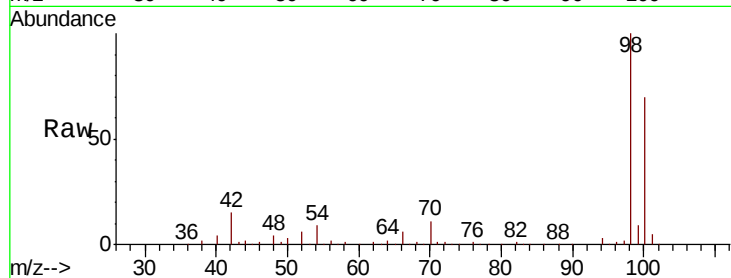




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.43 min Scan# 803  
Delta R.T. -0.01 min  
Lab File: VD060146.D  
Acq: 9 Oct 2018 11:31

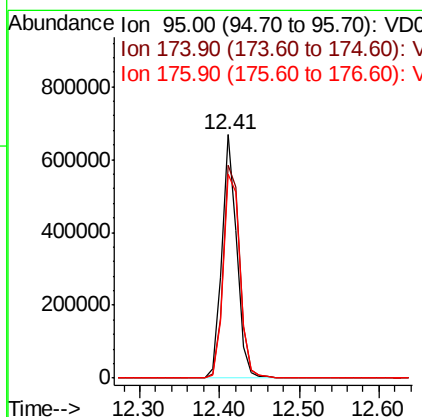
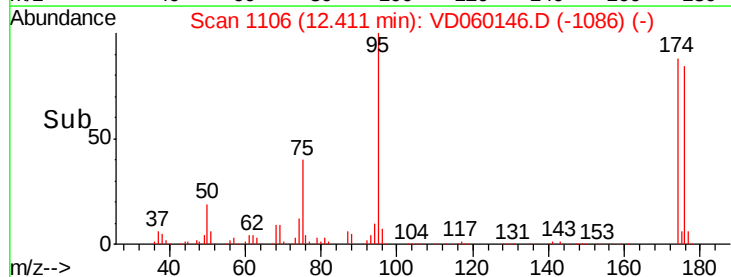
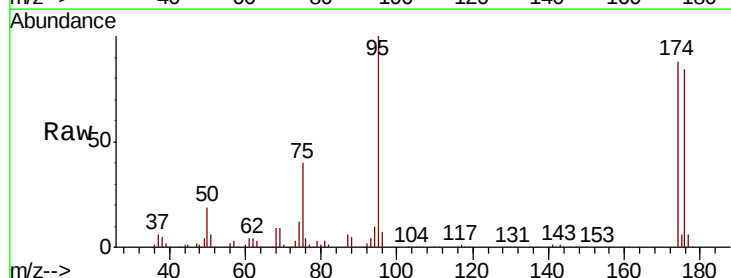
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1009SBL01

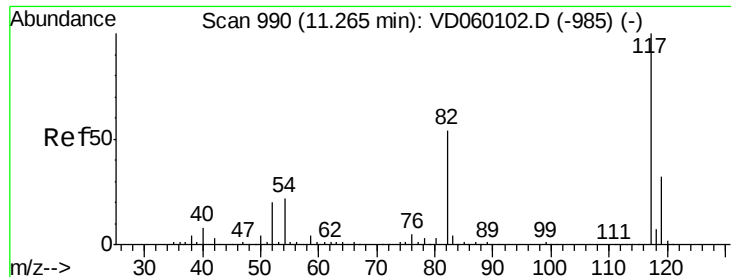
Tot Ion: 98 Resp: 2417777  
Ion Ratio Lower Upper  
98 100  
100 70.2 55.4 83.0



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.41 min Scan# 1106  
Delta R.T. -0.01 min  
Lab File: VD060146.D  
Acq: 9 Oct 2018 11:31

Tgt Ion: 95 Resp: 883639  
Ion Ratio Lower Upper  
95 100  
174 87.7 0.0 200.2  
176 83.7 0.0 195.6

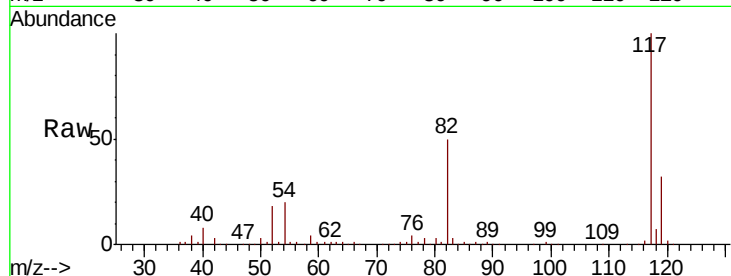




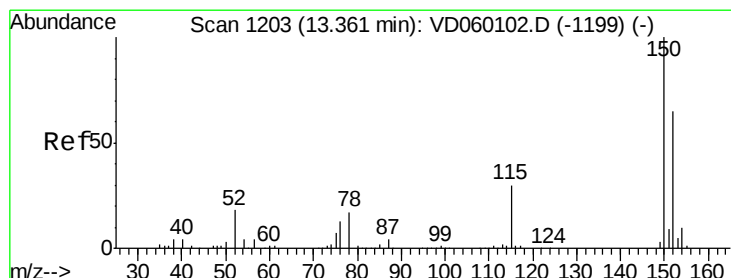
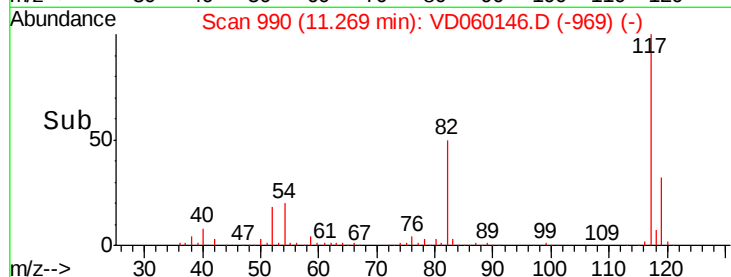
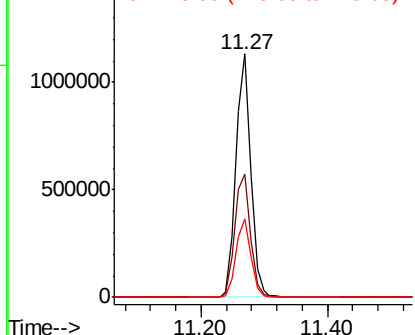
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 990  
Delta R.T. 0.00 min  
Lab File: VD060146.D  
Acq: 9 Oct 2018 11:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1009SBL01

Tot Ion:117 Resp: 1813455  
Ion Ratio Lower Upper  
117 100  
82 50.4 43.4 65.2  
119 32.4 26.0 39.0

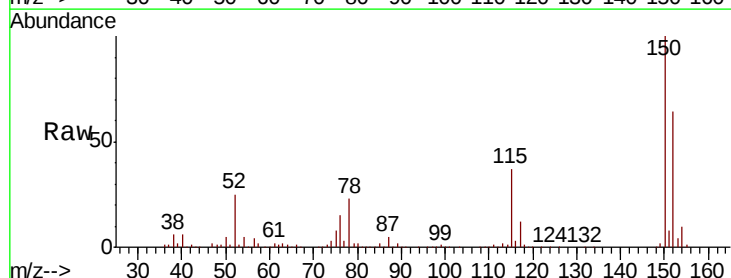


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.36 min Scan# 1202  
Delta R.T. -0.01 min  
Lab File: VD060146.D  
Acq: 9 Oct 2018 11:31

Tgt Ion:152 Resp: 950712  
Ion Ratio Lower Upper  
152 100  
115 57.0 27.1 81.2  
150 155.6 0.0 311.8



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

