

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040519\  
 Data File : VD061621.D  
 Acq On : 5 Apr 2019 15:22  
 Operator : VA/AP  
 Sample : K2230-02RE  
 Misc : 3.61g/5ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RICH-REC-ROAD-STONE-14RE

Quant Time: Apr 05 17:12:43 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

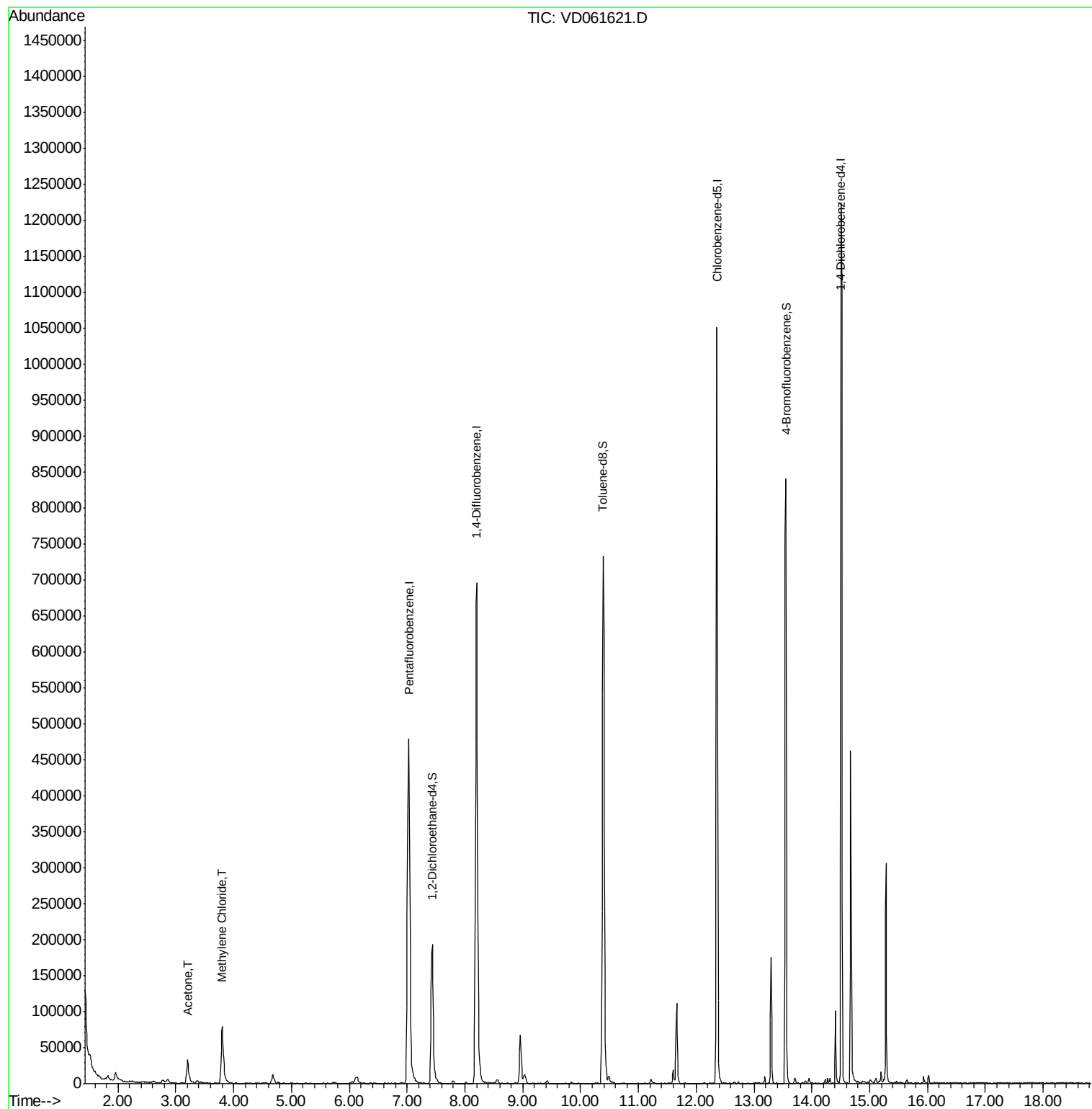
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 7.03  | 168  | 525319   | 50.00  | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene     | 8.20  | 114  | 880868   | 50.00  | ug/l   | 0.02     |
| 63) Chlorobenzene-d5        | 12.36 | 117  | 710603   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 14.52 | 152  | 312386   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 196241   | 43.73  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 87.46% |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 1626     | 0.24   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 0.48%  |          |
| 50) Toluene-d8              | 10.39 | 98   | 652382   | 40.41  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 80.82% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 280035   | 45.23  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.46% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 3.20  | 43   | 63302    | 54.874 | ug/l   | 95       |
| 20) Methylene Chloride      | 3.80  | 84   | 61747    | 7.940  | ug/l   | 97       |

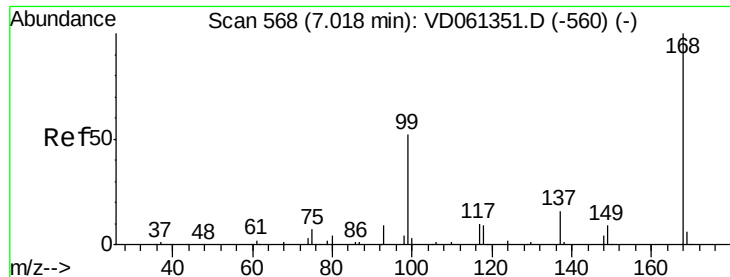
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Mar 28 09:22:37 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.02 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA\_D

ClientSampleId :

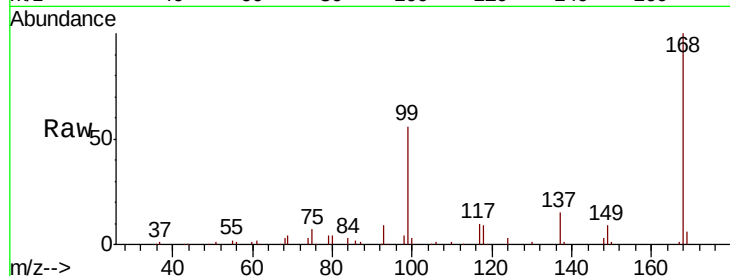
RICH-REC-ROAD-STONE-14RE

Tot Ion:168 Resp: 525319

Ion Ratio Lower Upper

168 100

99 55.6 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

150000

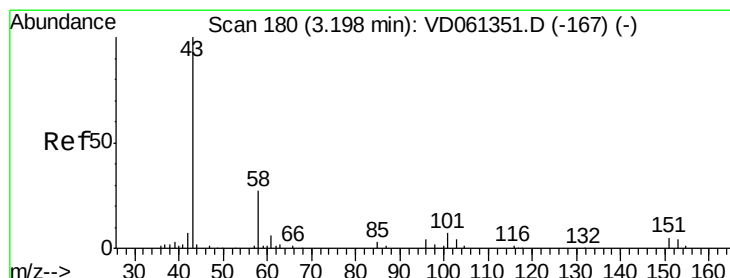
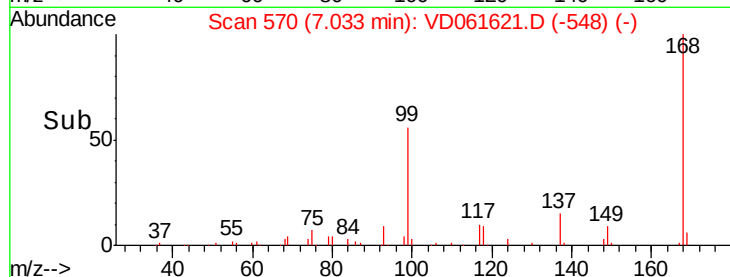
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#16

Acetone

Concen: 54.874 ug/l

RT: 3.20 min Scan# 181

Delta R.T. 0.01 min

Lab File: VD061621.D

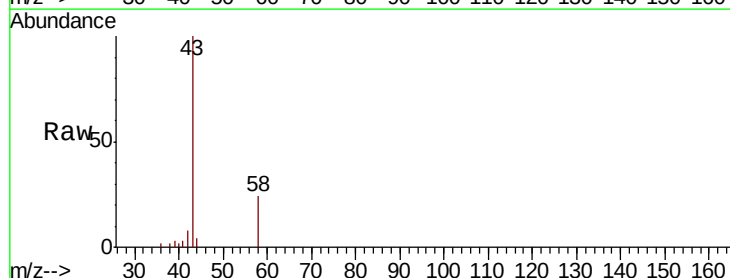
Acq: 5 Apr 2019 15:22

Tgt Ion: 43 Resp: 63302

Ion Ratio Lower Upper

43 100

58 24.2 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.20

25000

20000

15000

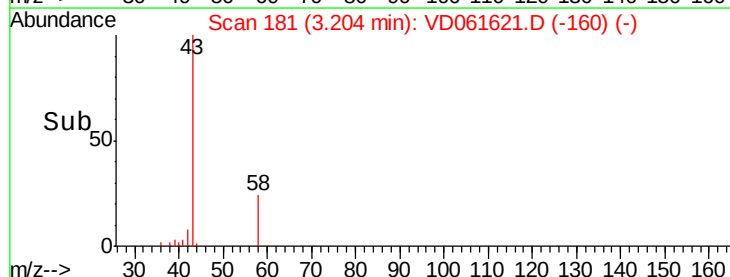
10000

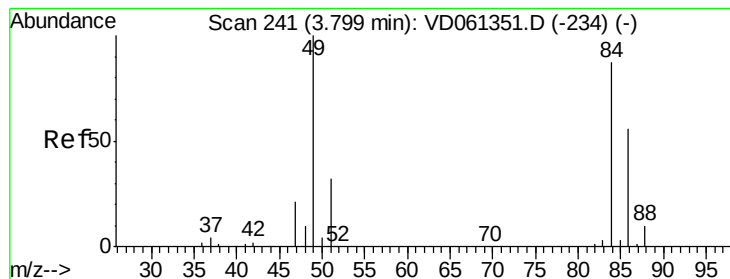
5000

0

Time-->

3.10 3.20 3.30





#20

Methylene Chloride

Concen: 7.940 ug/l

RT: 3.80 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD061621.D

Acq: 5 Apr 2019 15:22

Instrument :

MSVOA\_D

ClientSampleId :

RICH-REC-ROAD-STONE-14RE

Tot Ion: 84 Resp: 61747

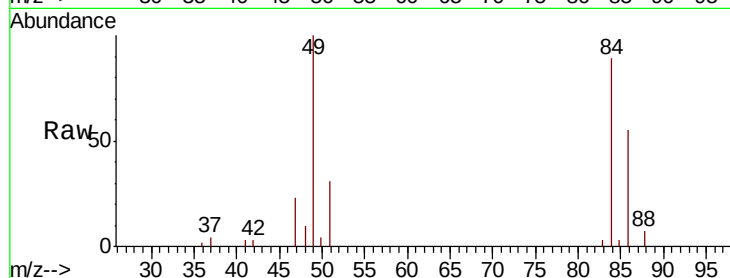
Ion Ratio Lower Upper

84 100

49 112.3 91.8 137.8

51 34.8 29.8 44.8

86 61.9 51.8 77.6

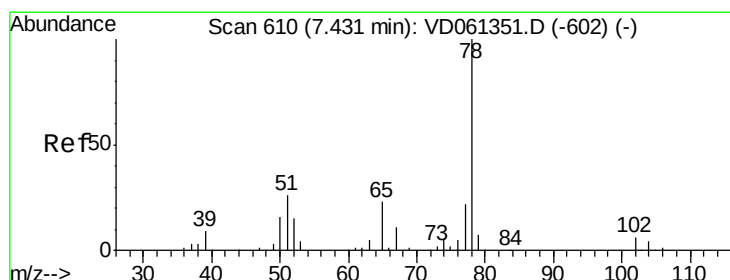
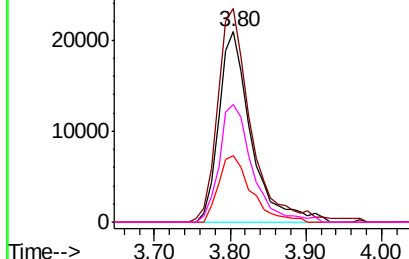
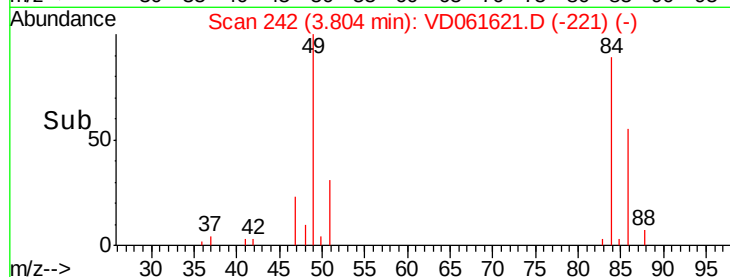


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD061621.D

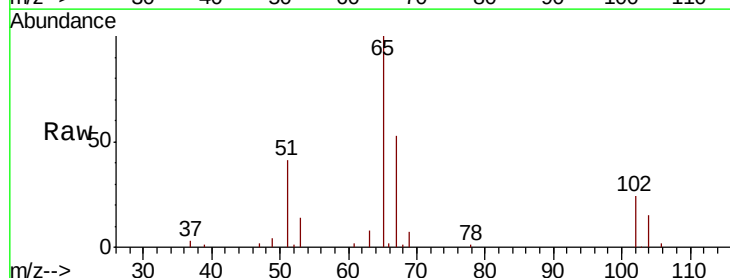
Acq: 5 Apr 2019 15:22

Tgt Ion: 65 Resp: 196241

Ion Ratio Lower Upper

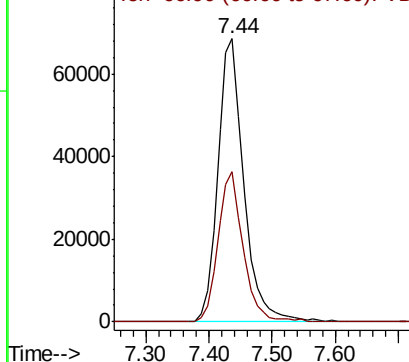
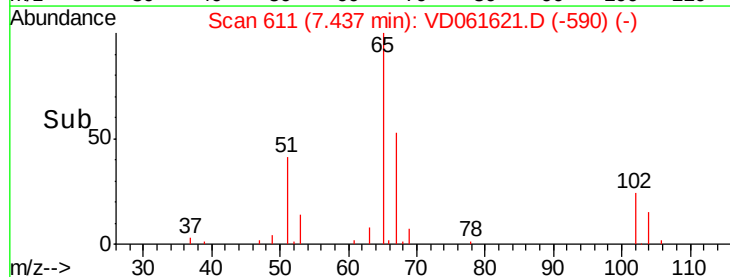
65 100

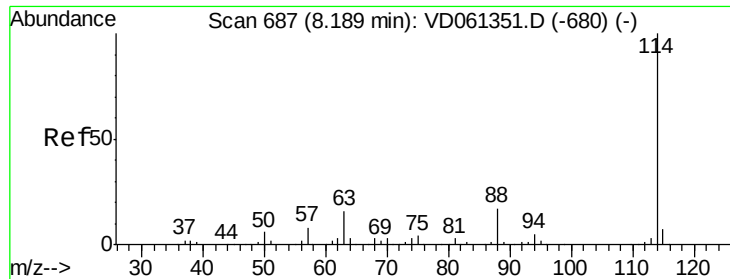
67 53.1 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

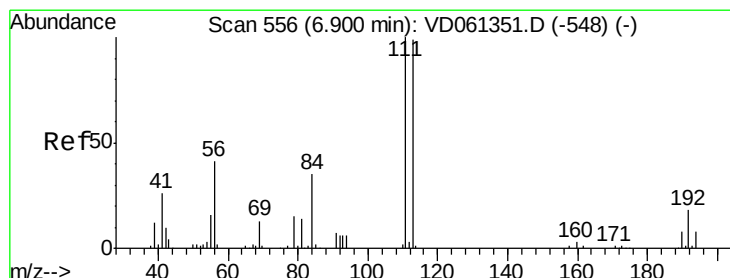
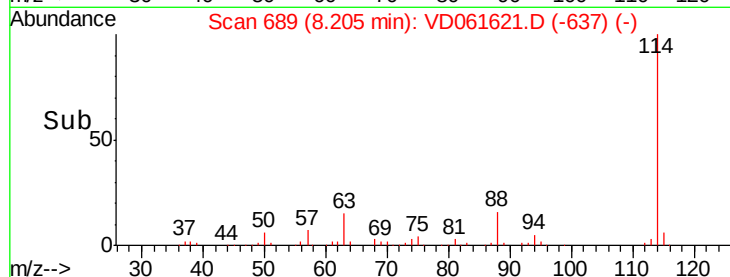
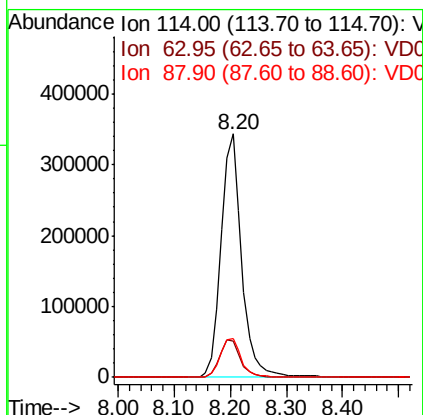
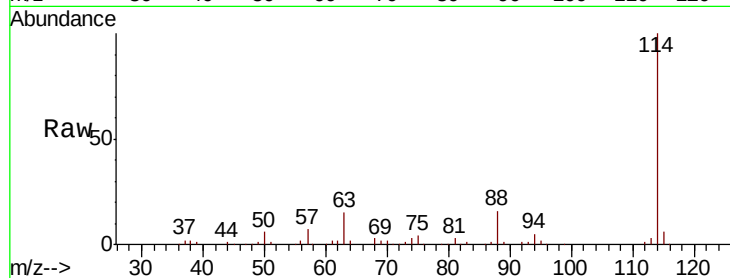




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.20 min Scan# 689  
 Delta R.T. 0.02 min  
 Lab File: VD061621.D  
 Acq: 5 Apr 2019 15:22

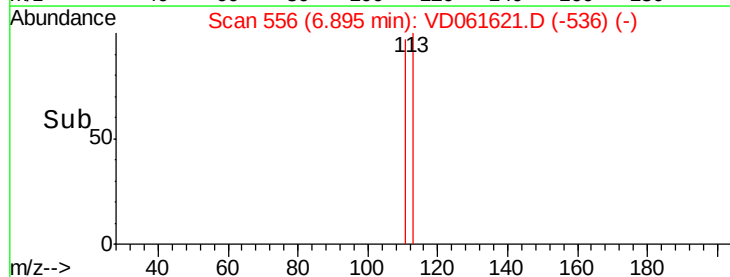
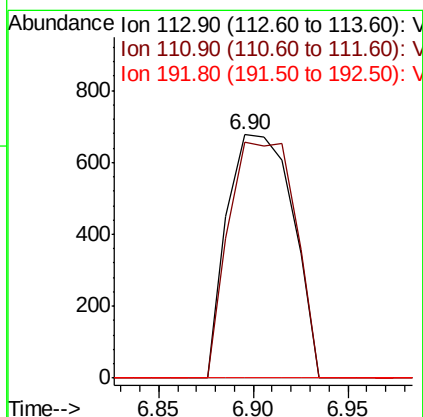
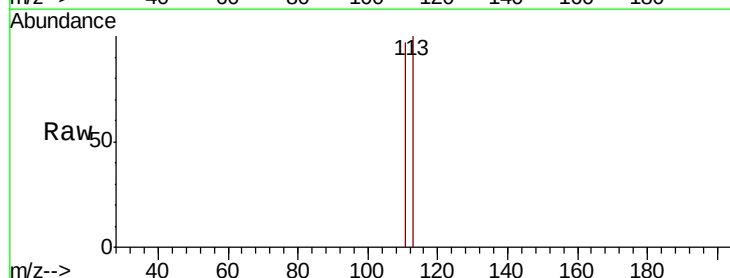
Instrument :  
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 RICH-REC-ROAD-STONE-14RE

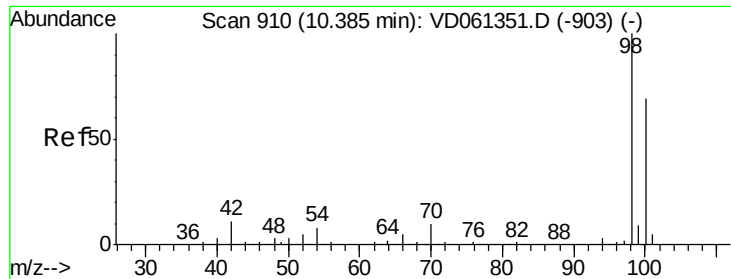
Tot Ion:114 Resp: 880868  
 Ion Ratio Lower Upper  
 114 100  
 63 14.9 0.0 31.6  
 88 16.2 0.0 33.4



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.90 min Scan# 556  
 Delta R.T. -0.00 min  
 Lab File: VD061621.D  
 Acq: 5 Apr 2019 15:22

Tgt Ion:113 Resp: 1626  
 Ion Ratio Lower Upper  
 113 100  
 111 96.8 81.0 121.6  
 192 0.0 14.4 21.6#

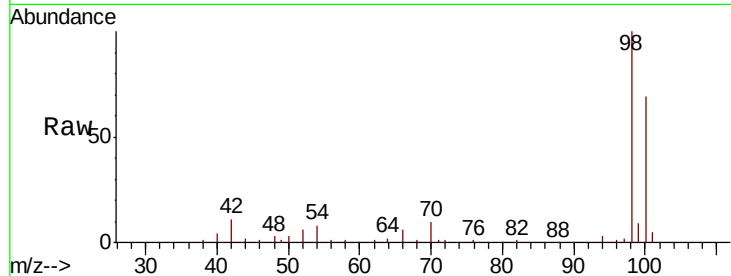




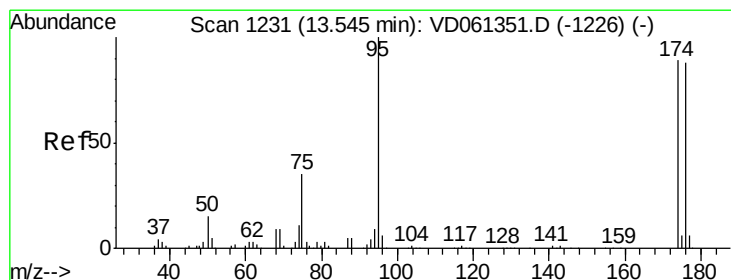
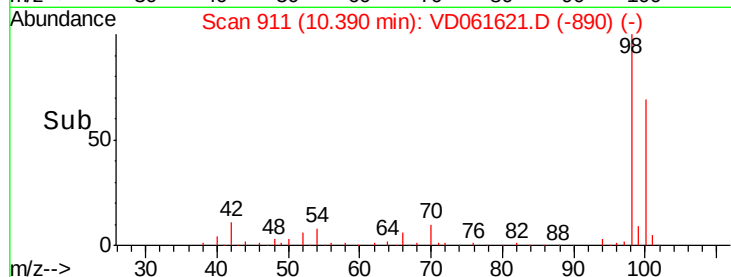
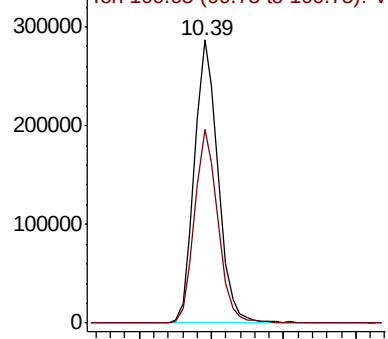
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. 0.01 min  
Lab File: VD061621.D  
Acq: 5 Apr 2019 15:22

Instrument :  
MSVOA\_D  
ClientSampleId :  
RICH-REC-ROAD-STONE-14RE

Tot Ion: 98 Resp: 652382  
Ion Ratio Lower Upper  
98 100  
100 68.6 56.2 84.2

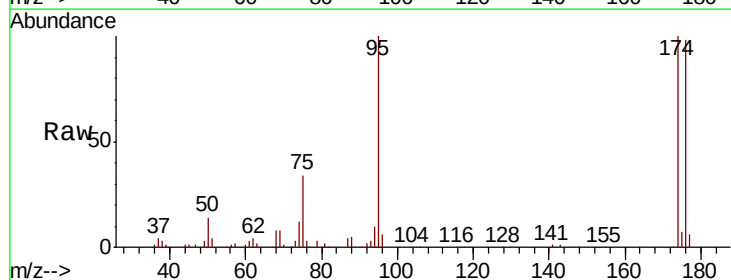


Abundance Ion 98.05 (97.75 to 98.75): VD061351.D (-903) (-)  
Ion 100.05 (99.75 to 100.75): VD061351.D (-903) (-)

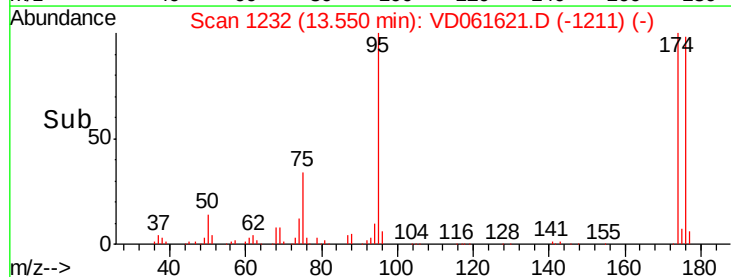
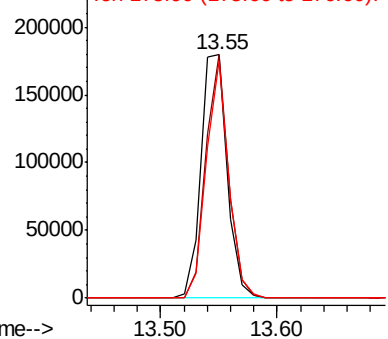


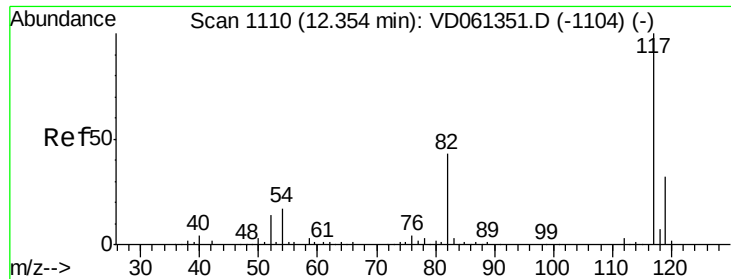
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. 0.01 min  
Lab File: VD061621.D  
Acq: 5 Apr 2019 15:22

Tgt Ion: 95 Resp: 280035  
Ion Ratio Lower Upper  
95 100  
174 99.8 0.0 178.0  
176 97.7 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): VD061351.D (-1226) (-)  
Ion 173.90 (173.60 to 174.60): VD061351.D (-1226) (-)  
Ion 175.90 (175.60 to 176.60): VD061351.D (-1226) (-)

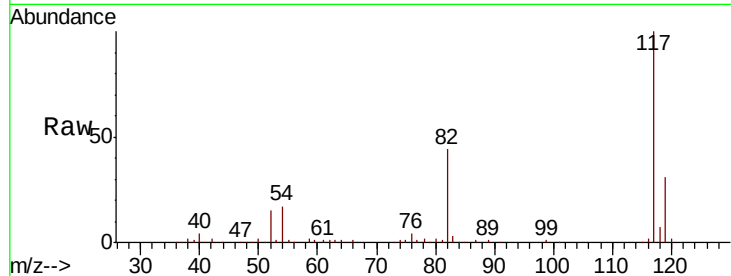




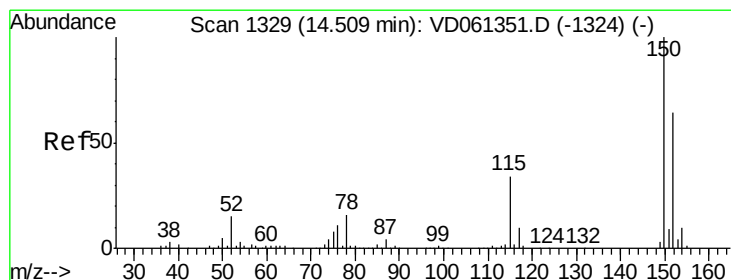
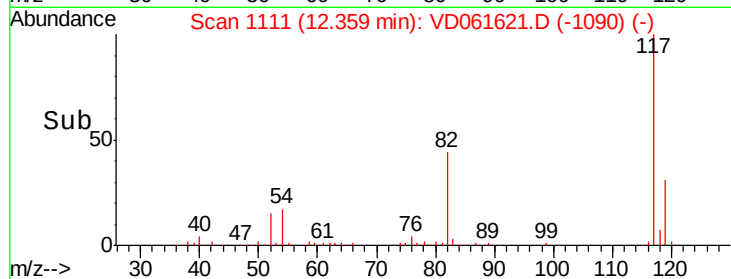
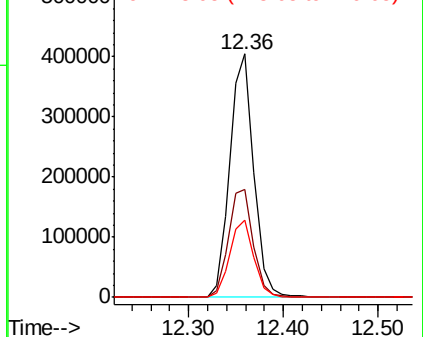
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.01 min  
Lab File: VD061621.D  
Acq: 5 Apr 2019 15:22

Instrument :  
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Tot Ion:117 Resp: 710603  
Ion Ratio Lower Upper  
117 100  
82 44.1 34.4 51.6  
119 31.5 25.8 38.6

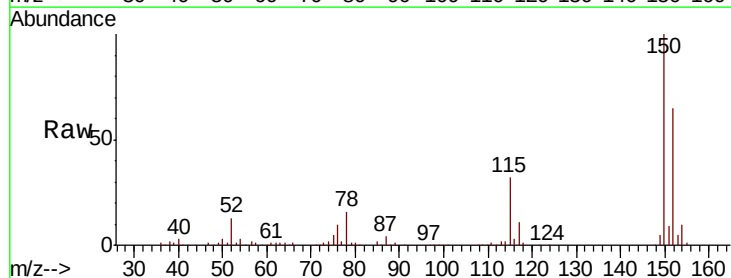


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.01 min  
Lab File: VD061621.D  
Acq: 5 Apr 2019 15:22

Tgt Ion:152 Resp: 312386  
Ion Ratio Lower Upper  
152 100  
115 49.3 26.9 80.6  
150 153.6 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

