

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\  
 Data File : VD058279.D  
 Acq On : 22 Jun 2018 5:45  
 Operator : VA/AP  
 Sample : J3594-01  
 Misc : 7.20g/5ml/MSVOA D/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HC-SOIL-1

Quant Time: Jun 22 06:20:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 552010   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 6.70  | 114  | 761538   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 546860   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 252827   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 352411   | 63.21 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 126.42% |          |
| 35) Dibromofluoromethane    | 5.55  | 113  | 339184   | 54.72 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 109.44% |          |
| 50) Toluene-d8              | 8.71  | 98   | 612891   | 40.87 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 81.74%  |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 278684   | 45.49 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.98%  |          |

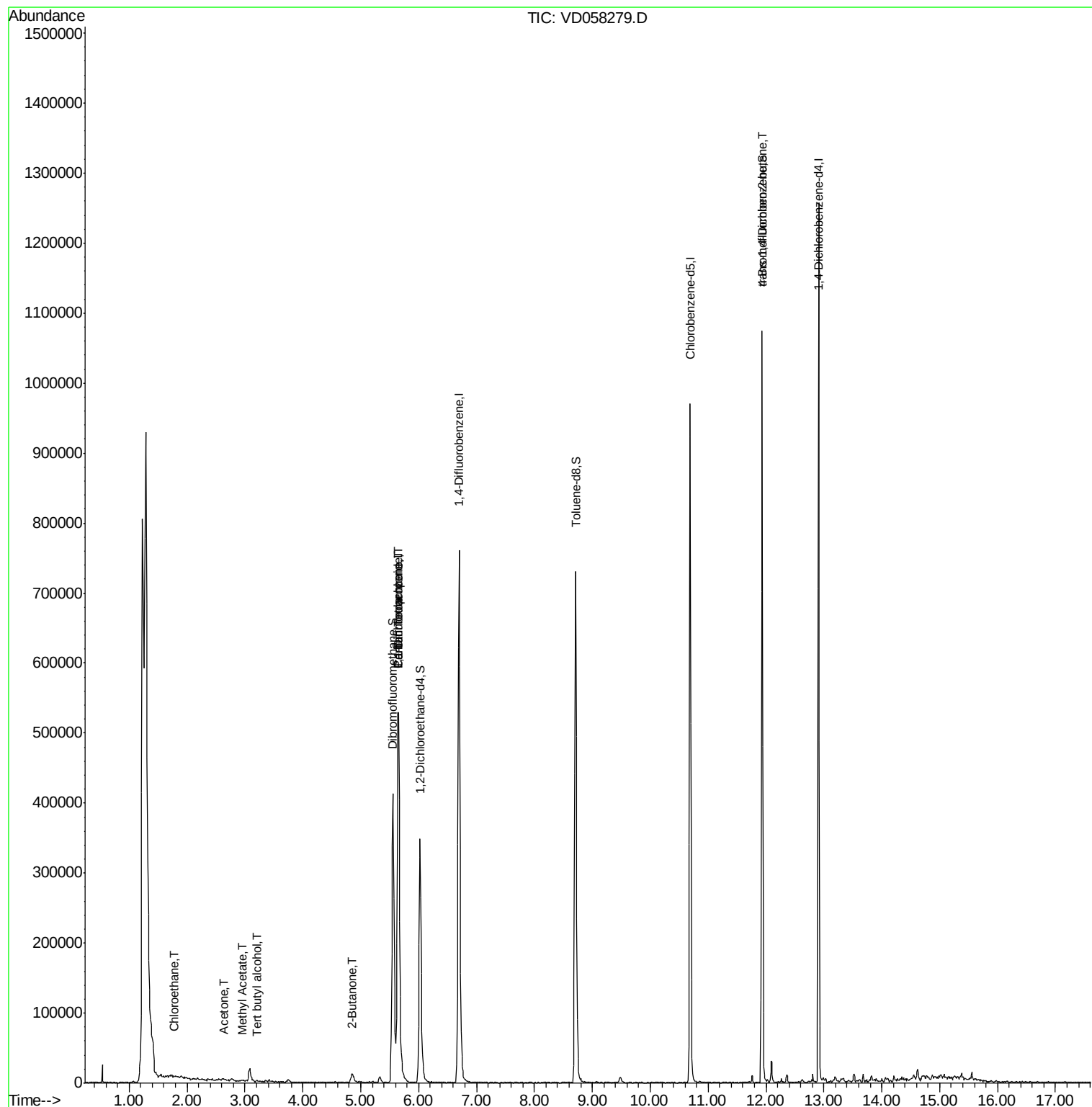
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.35  | 85   | 697      | Below Cal | #      | 26     |
| 3) Chloromethane               | 1.52  | 50   | 198      | Below Cal | #      | 43     |
| 5) Bromomethane                | 1.82  | 94   | 223      | Below Cal | #      | 3      |
| 6) Chloroethane                | 1.76  | 64   | 198      | 1.564     | ug/l # | 41     |
| 11) Tert butyl alcohol         | 3.22  | 59   | 611      | 3.323     | ug/l # | 78     |
| 16) Acetone                    | 2.62  | 43   | 4238     | 5.558     | ug/l # | 62     |
| 18) Methyl Acetate             | 2.96  | 43   | 2946     | 1.812     | ug/l # | 65     |
| 20) Methylene Chloride         | 3.08  | 84   | 8474     | Below Cal | #      | 90     |
| 25) 2-Butanone                 | 4.85  | 43   | 1728     | 1.040     | ug/l # | 60     |
| 31) Cyclohexane                | 5.65  | 56   | 12698    | Below Cal | #      | 14     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 45532    | 6.044     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 46100    | 6.159     | ug/l # | 15     |
| 81) trans-1,4-Dichloro-2-buten | 11.93 | 75   | 138952   | 154.341   | ug/l # | 1      |
| 82) 4-Chlorotoluene            | 12.33 | 91   | 556      | Below Cal | #      | 45     |

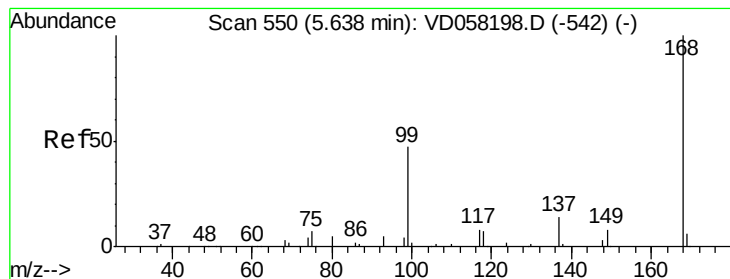
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062118\  
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ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HC-SOIL-1

Quant Time: Jun 22 06:20:38 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 20 05:52:56 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.02 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

Instrument :

MSVOA\_D

ClientSampleID :

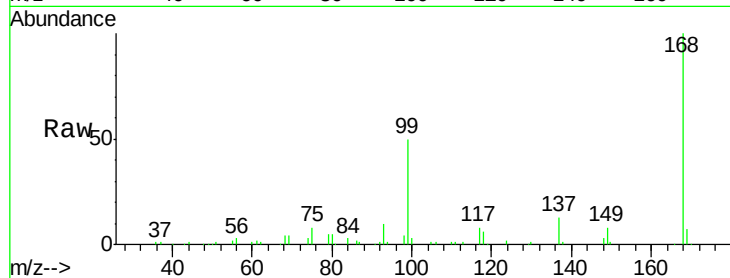
HC-SOIL-1

Tot Ion:168 Resp: 552010

Ion Ratio Lower Upper

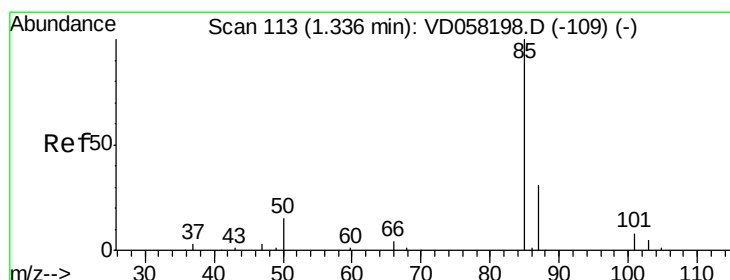
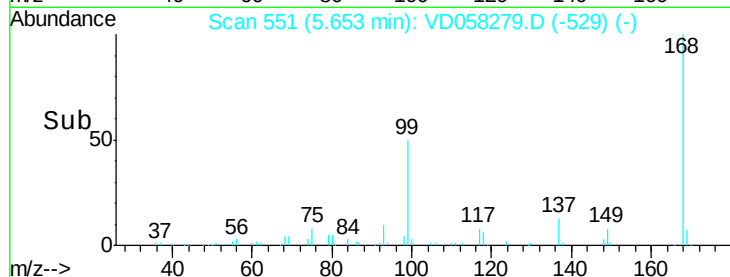
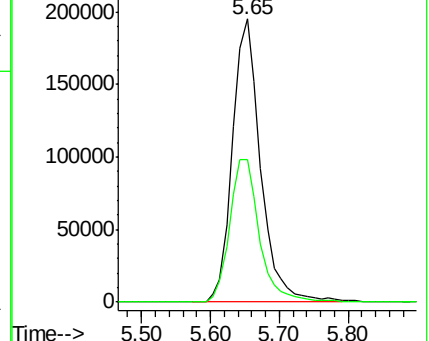
168 100

99 50.3 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD058279.D

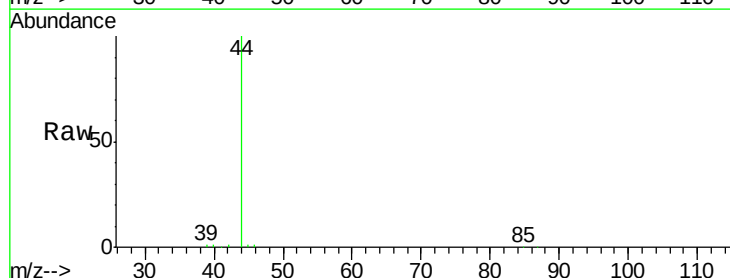
Acq: 22 Jun 2018 5:45

Tgt Ion: 85 Resp: 697

Ion Ratio Lower Upper

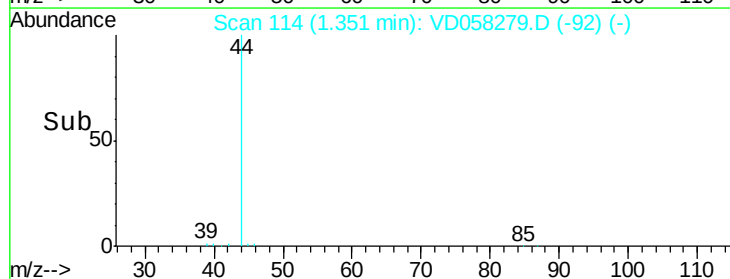
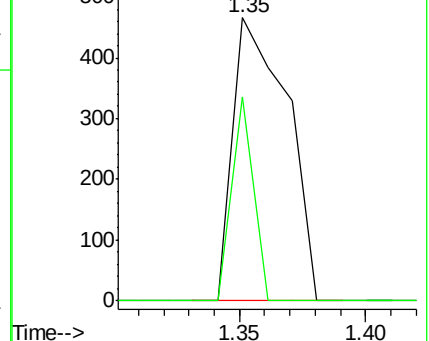
85 100

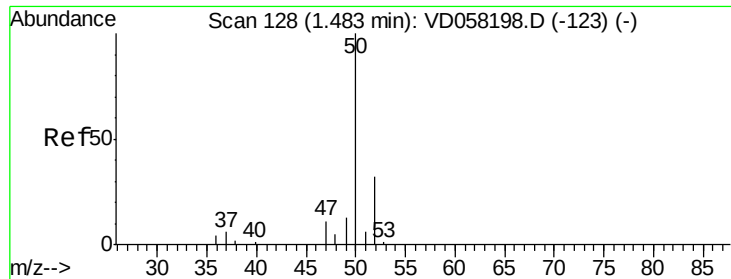
87 72.1 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.52 min Scan# 131

Delta R.T. 0.04 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

Instrument :

MSVOA\_D

ClientSampleId :

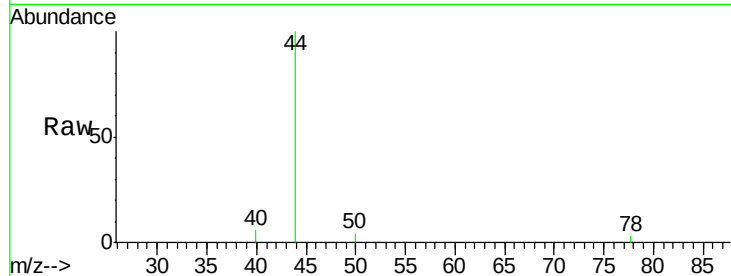
HC-SOIL-1

Tot Ion: 50 Resp: 198

Ion Ratio Lower Upper

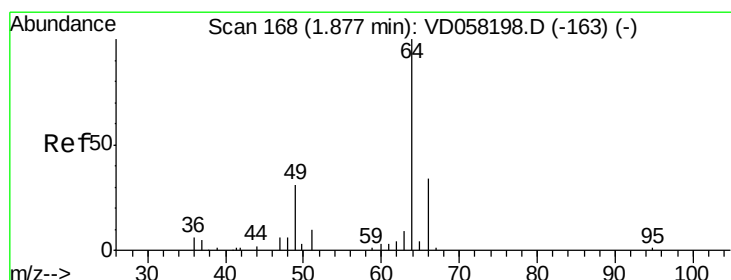
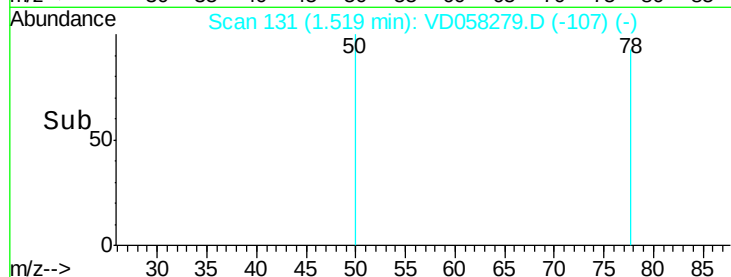
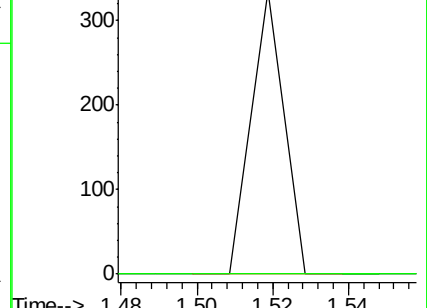
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#6

Chloroethane

Concen: 1.564 ug/l

RT: 1.76 min Scan# 156

Delta R.T. -0.11 min

Lab File: VD058279.D

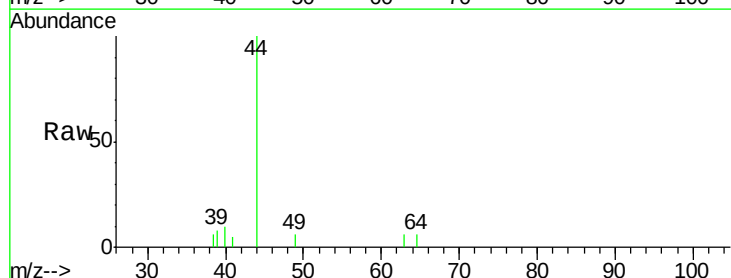
Acq: 22 Jun 2018 5:45

Tgt Ion: 64 Resp: 198

Ion Ratio Lower Upper

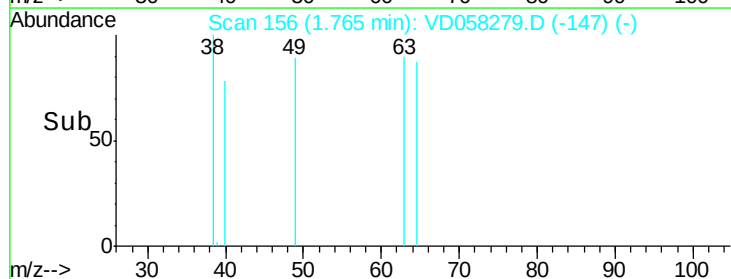
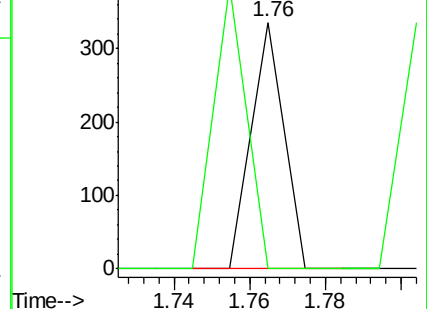
64 100

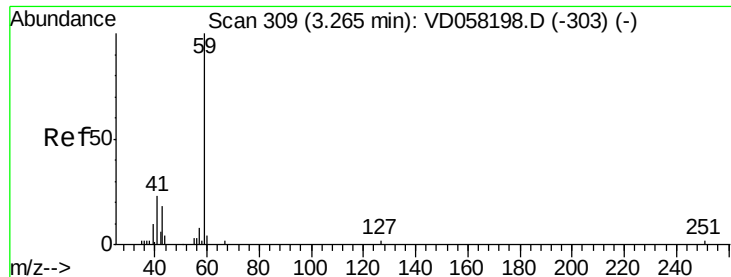
66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



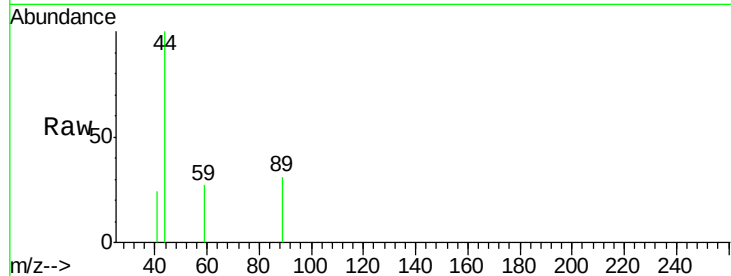


#11

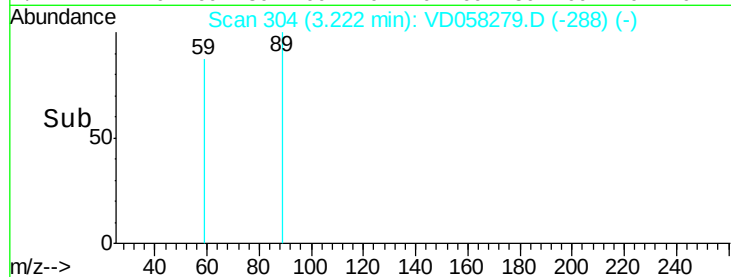
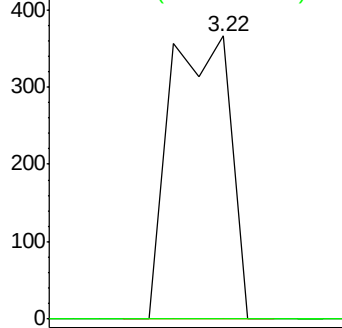
Tert butyl alcohol  
 Concen: 3.323 ug/l  
 RT: 3.22 min Scan# 304  
 Delta R.T. -0.04 min  
 Lab File: VD058279.D  
 Acq: 22 Jun 2018 5:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HC-SOIL-1

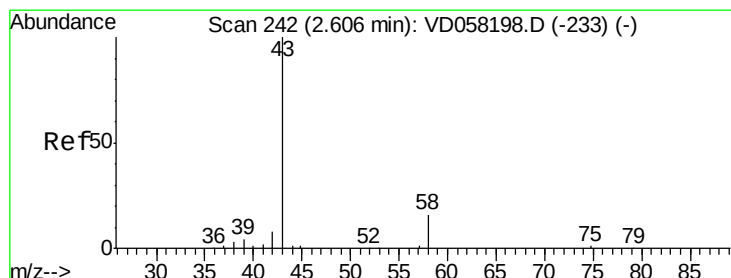
Tot Ion: 59 Resp: 611  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC  
 Ion 56.95 (56.65 to 57.65): VDC



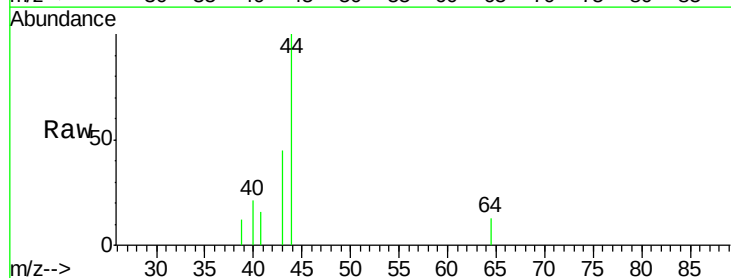
Time-->



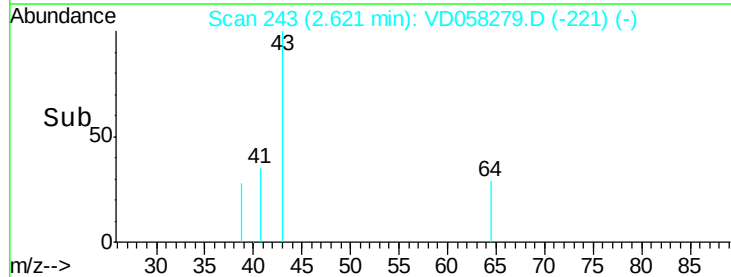
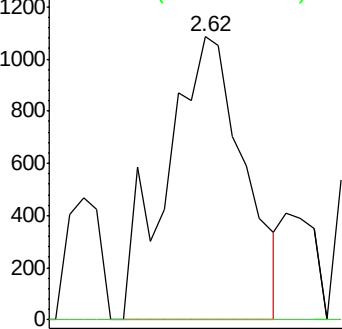
#16

Acetone  
 Concen: 5.558 ug/l  
 RT: 2.62 min Scan# 243  
 Delta R.T. 0.02 min  
 Lab File: VD058279.D  
 Acq: 22 Jun 2018 5:45

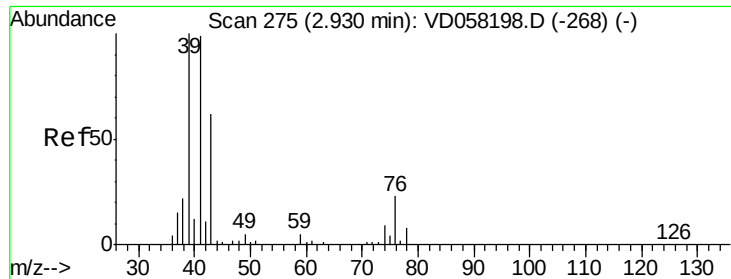
Tgt Ion: 43 Resp: 4238  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
 Ion 57.95 (57.65 to 58.65): VDC



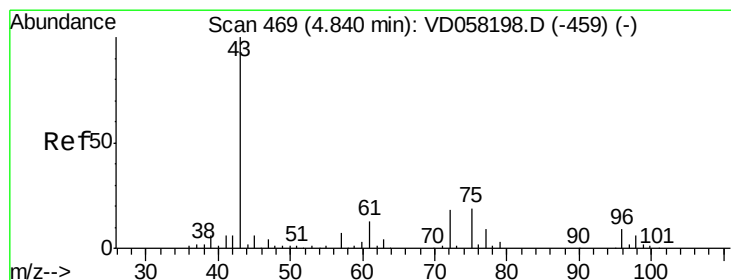
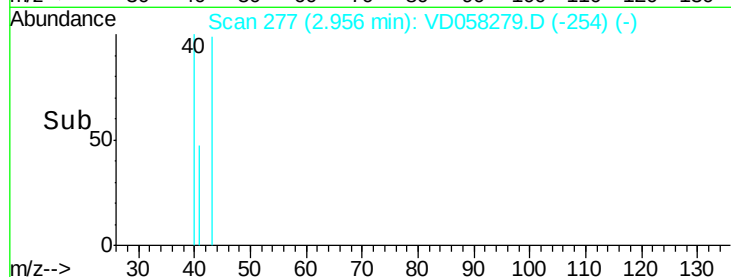
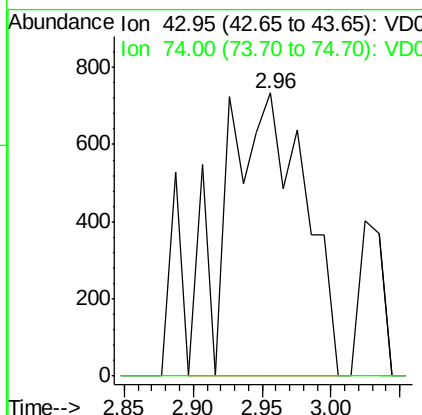
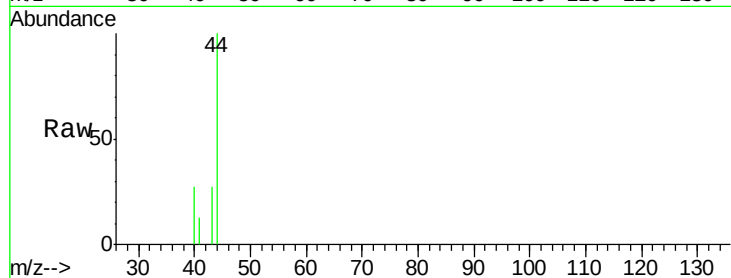
Time-->



#18  
Methvl Acetate  
Concen: 1.812 ug/l  
RT: 2.96 min Scan# 277  
Delta R.T. 0.03 min  
Lab File: VD058279.D  
Acq: 22 Jun 2018 5:45

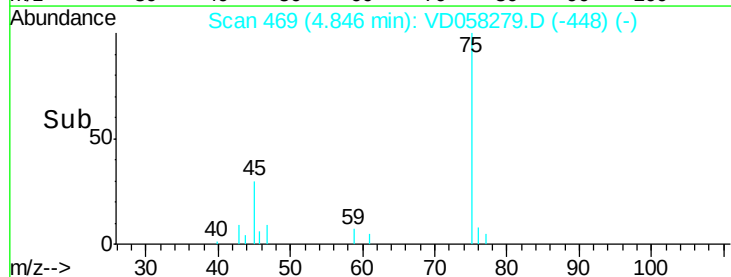
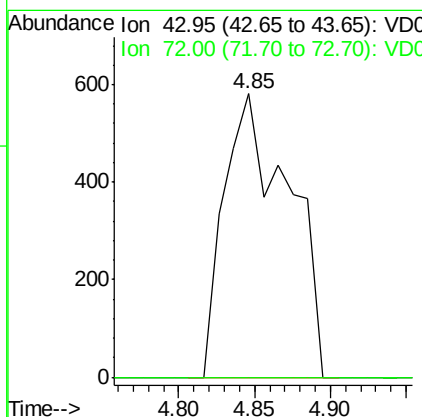
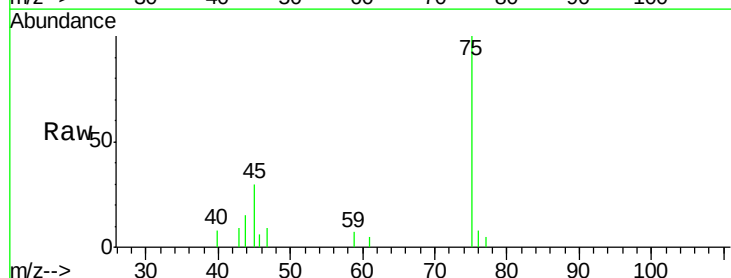
Instrument :  
MSVOA\_D  
ClientSampleId :  
HC-SOIL-1

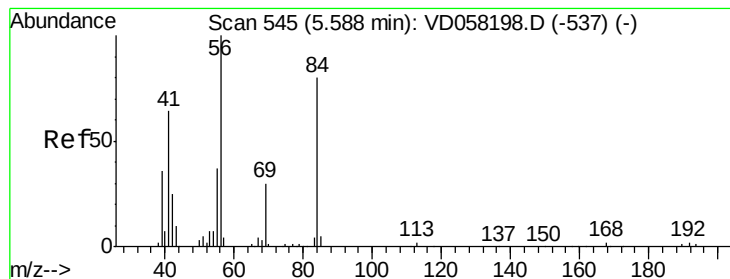
Tot Ion: 43 Resp: 2946  
Ion Ratio Lower Upper  
43 100  
74 0.0 11.7 17.5#



#25  
2-Butanone  
Concen: 1.040 ug/l  
RT: 4.85 min Scan# 469  
Delta R.T. 0.01 min  
Lab File: VD058279.D  
Acq: 22 Jun 2018 5:45

Tgt Ion: 43 Resp: 1728  
Ion Ratio Lower Upper  
43 100  
72 0.0 14.1 21.1#





#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.07 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

Instrument :

MSVOA\_D

ClientSampleId :

HC-SOIL-1

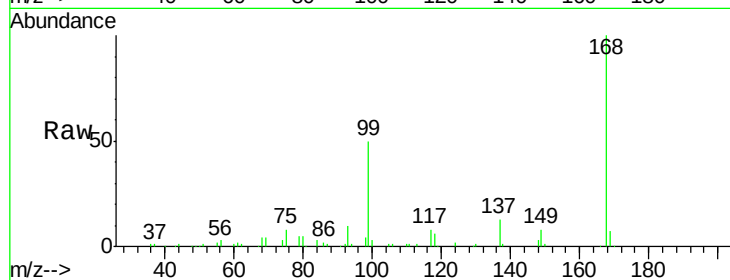
Tot Ion: 56 Resp: 12698

Ion Ratio Lower Upper

56 100

69 164.7 23.6 35.4#

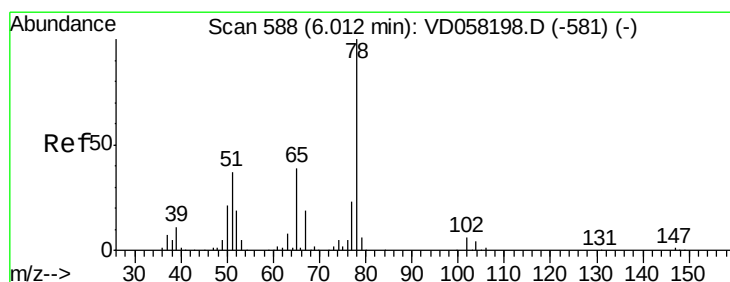
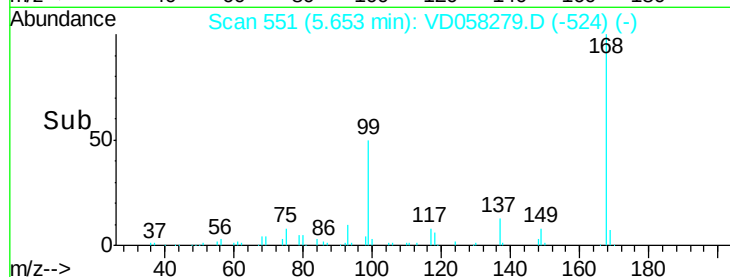
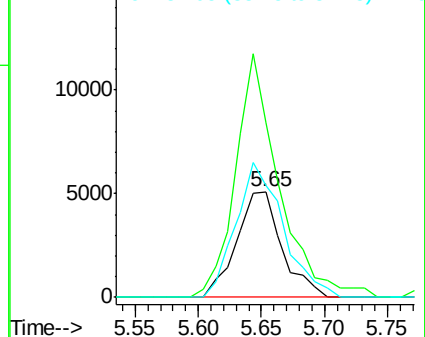
84 105.0 65.2 97.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.03 min Scan# 589

Delta R.T. 0.02 min

Lab File: VD058279.D

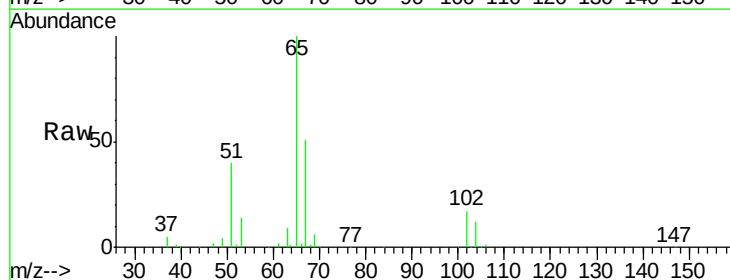
Acq: 22 Jun 2018 5:45

Tgt Ion: 65 Resp: 352411

Ion Ratio Lower Upper

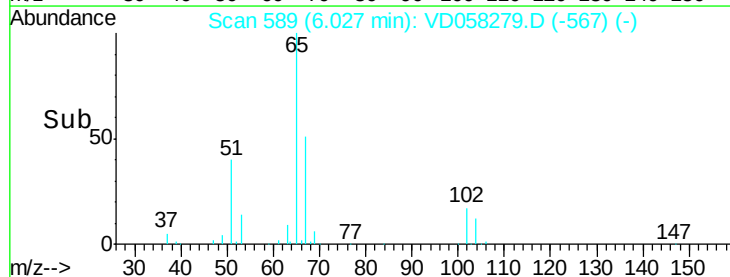
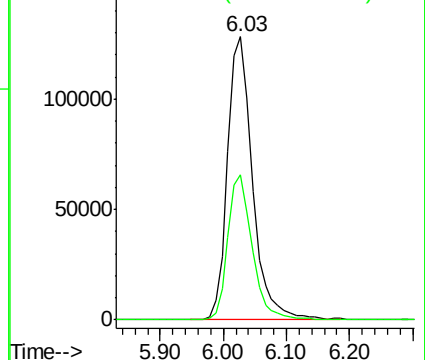
65 100

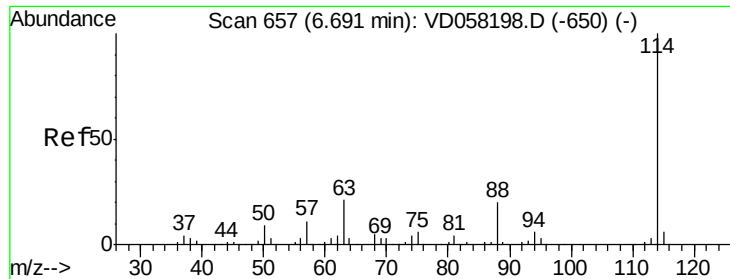
67 51.2 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

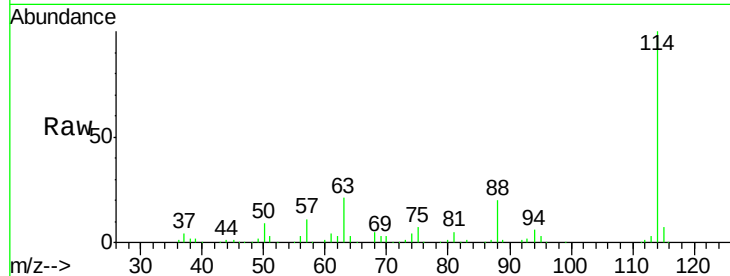




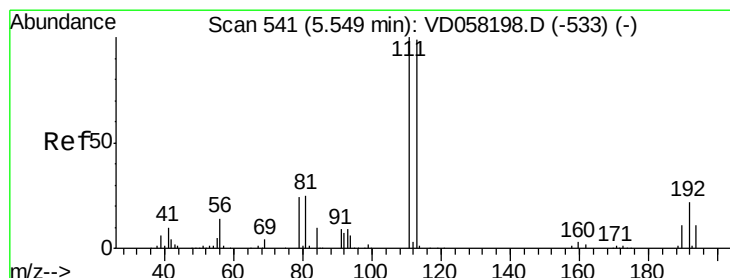
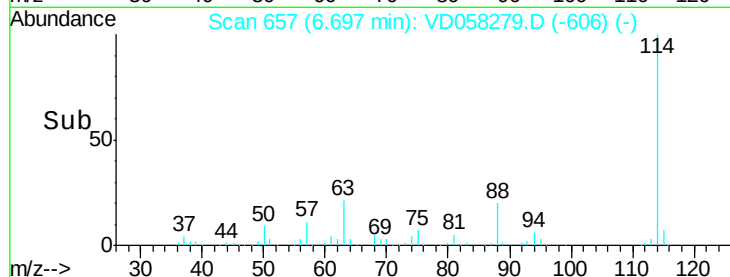
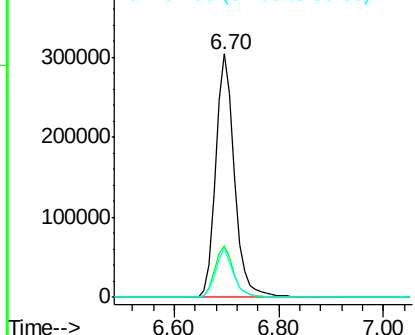
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.70 min Scan# 657  
 Delta R.T. 0.01 min  
 Lab File: VD058279.D  
 Acq: 22 Jun 2018 5:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HC-SOIL-1

Tot Ion:114 Resp: 761538  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 42.6  
 88 20.3 0.0 40.6

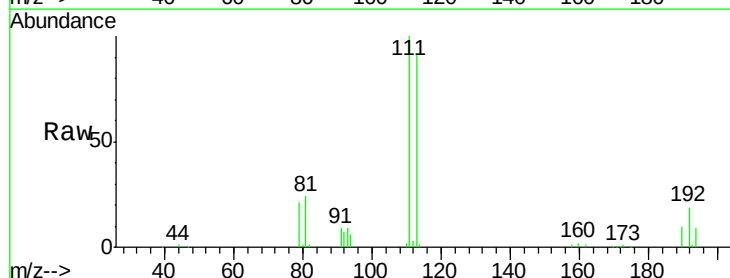


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

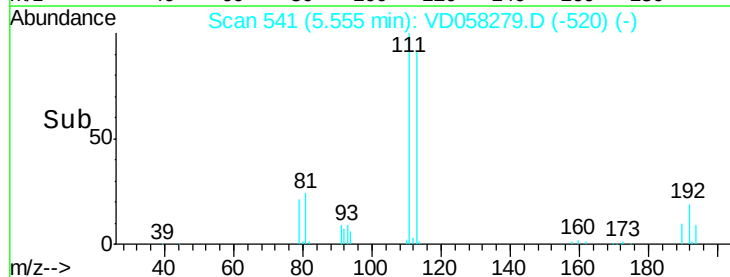
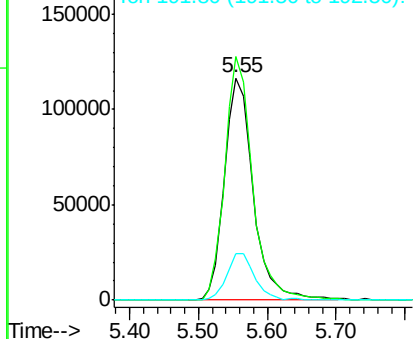


#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 5.55 min Scan# 541  
 Delta R.T. 0.01 min  
 Lab File: VD058279.D  
 Acq: 22 Jun 2018 5:45

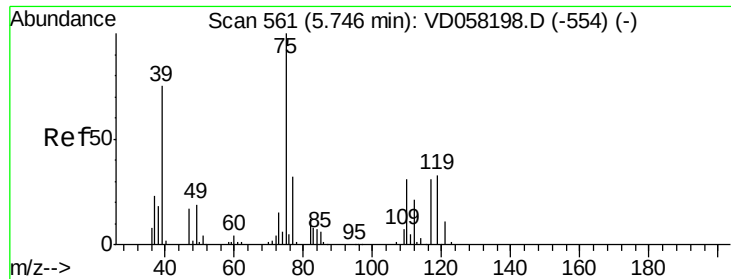
Tgt Ion:113 Resp: 339184  
 Ion Ratio Lower Upper  
 113 100  
 111 109.6 80.6 121.0  
 192 20.9 17.8 26.6



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



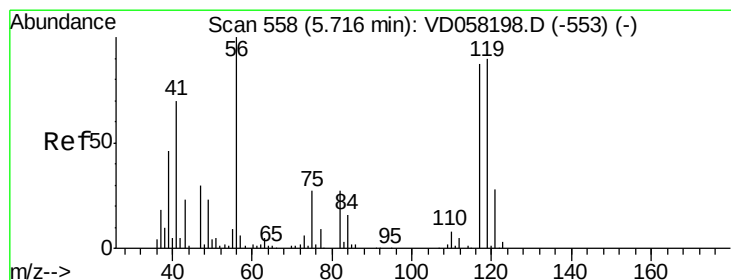
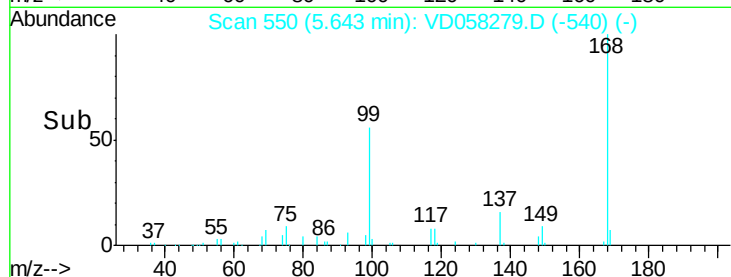
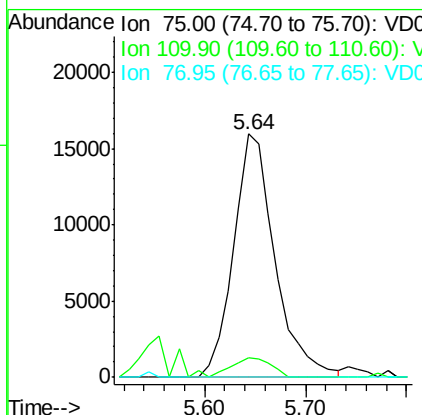
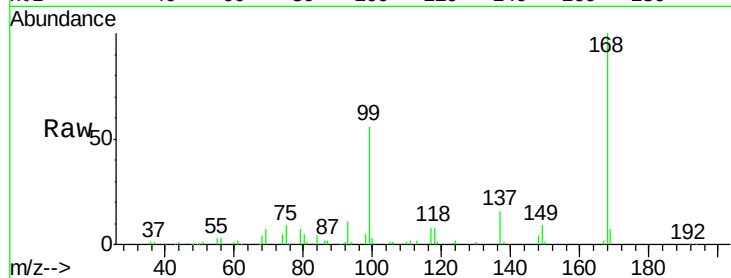




#36  
 1,1-Dichloropropene  
 Concen: 6.044 ug/l  
 RT: 5.64 min Scan# 550  
 Delta R.T. -0.10 min  
 Lab File: VD058279.D  
 Acq: 22 Jun 2018 5:45

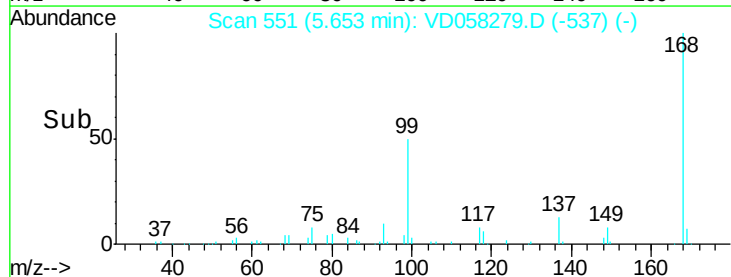
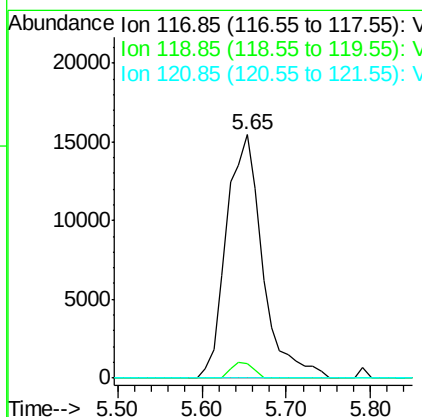
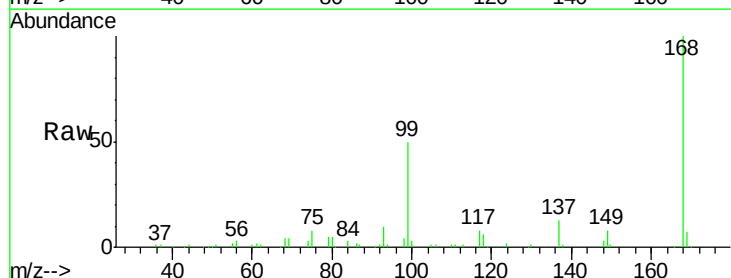
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HC-SOIL-1

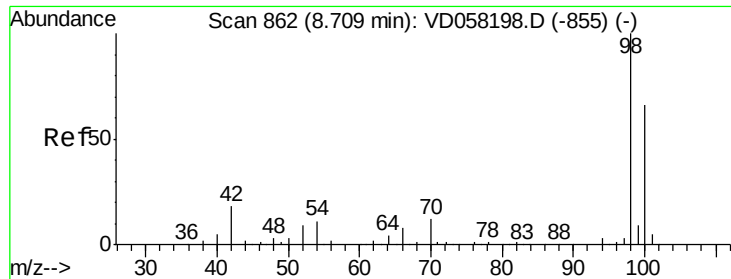
Tot Ion: 75 Resp: 45532  
 Ion Ratio Lower Upper  
 75 100  
 110 8.1 15.4 46.4#  
 77 0.0 25.4 38.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.159 ug/l  
 RT: 5.65 min Scan# 551  
 Delta R.T. -0.06 min  
 Lab File: VD058279.D  
 Acq: 22 Jun 2018 5:45

Tgt Ion: 117 Resp: 46100  
 Ion Ratio Lower Upper  
 117 100  
 119 5.8 78.8 118.2#  
 121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.01 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

Instrument :

MSVOA\_D

ClientSampleId :

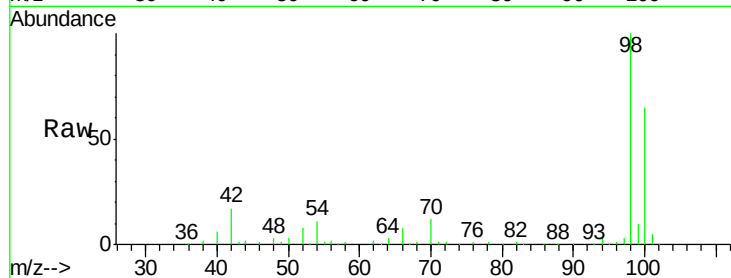
HC-SOIL-1

Tot Ion: 98 Resp: 612891

Ion Ratio Lower Upper

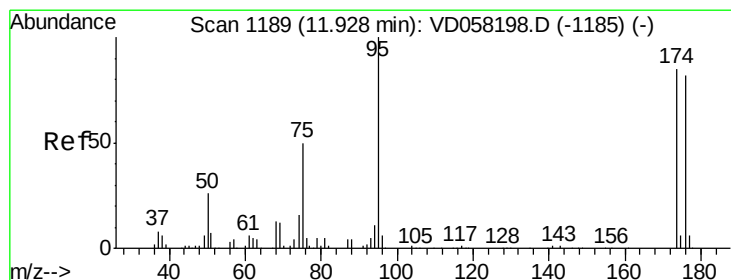
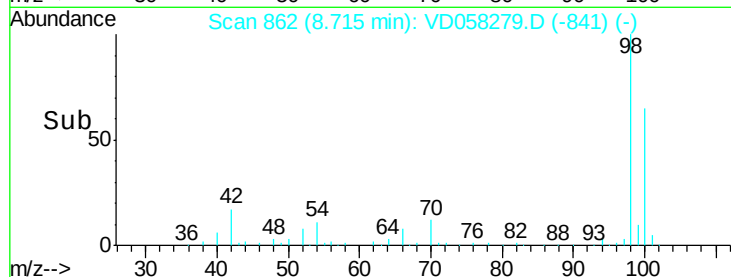
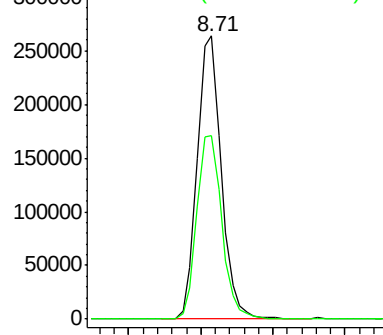
98 100

100 64.7 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VD0

Ion 100.05 (99.75 to 100.75): VD



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

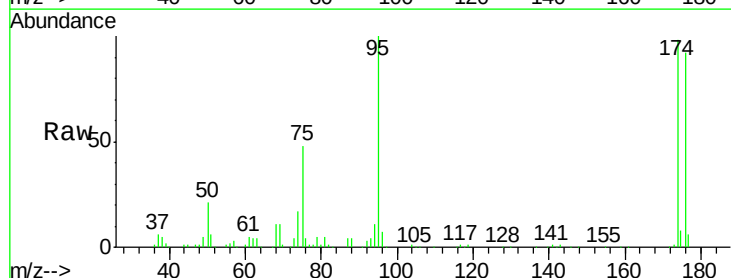
Tgt Ion: 95 Resp: 278684

Ion Ratio Lower Upper

95 100

174 97.6 0.0 170.2

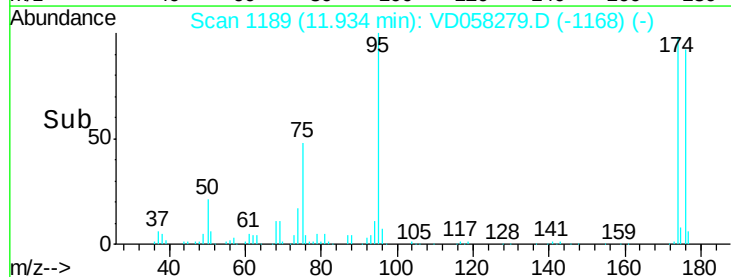
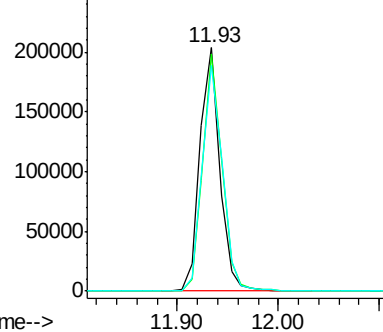
176 92.5 0.0 164.6

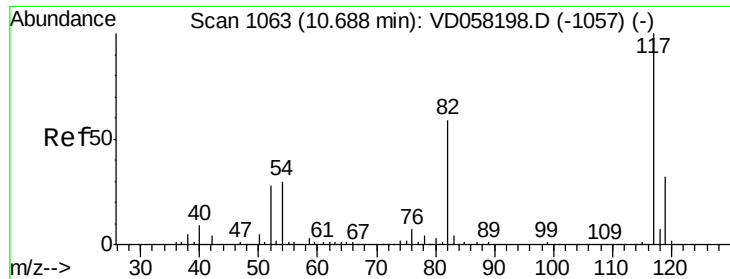


Abundance Ion 95.00 (94.70 to 95.70): VD0

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: 10.69 min Scan# 1063

Delta R.T. 0.01 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

Instrument :

MSVOA\_D

ClientSampleId :

HC-SOIL-1

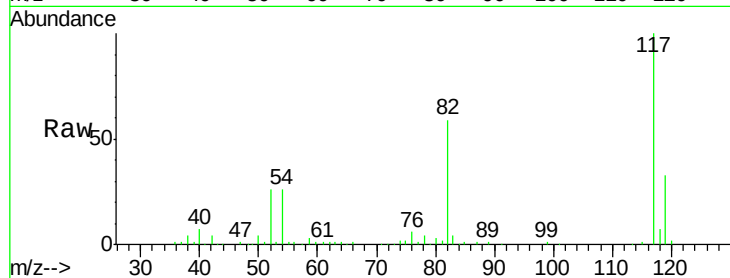
Tot Ion:117 Resp: 546860

Ion Ratio Lower Upper

117 100

82 58.7 47.0 70.6

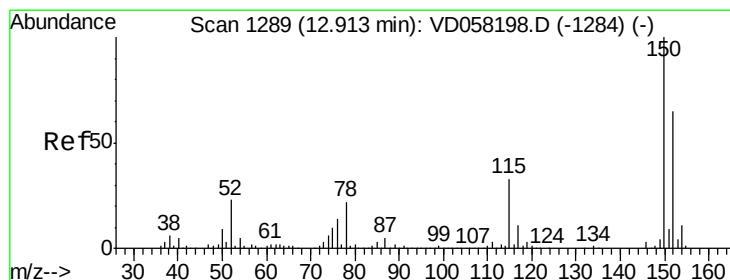
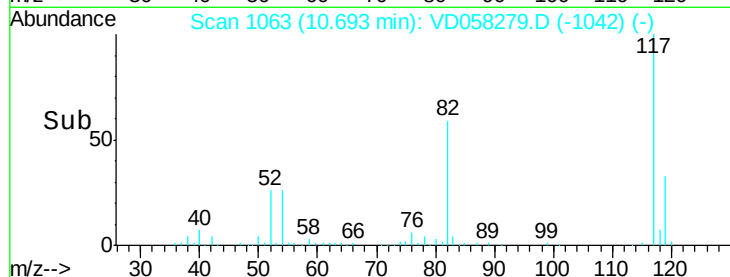
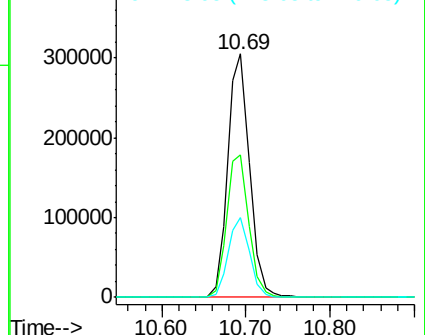
119 32.8 25.3 37.9



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: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

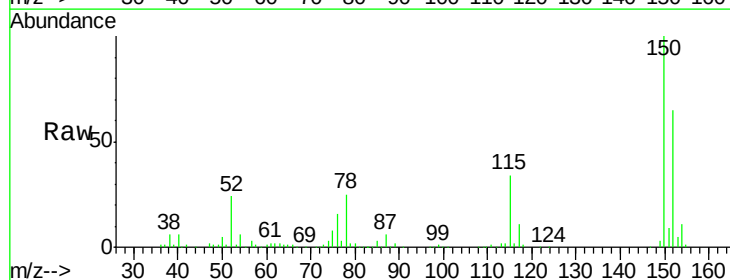
Tgt Ion:152 Resp: 252827

Ion Ratio Lower Upper

152 100

115 51.9 25.1 75.3

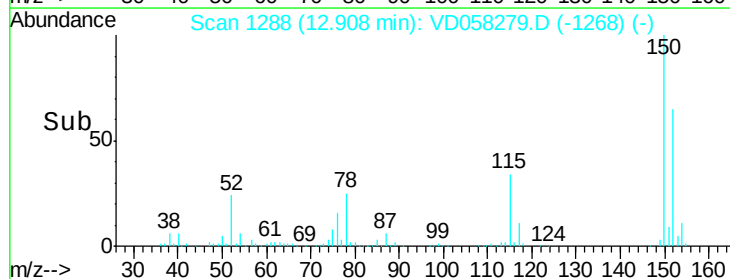
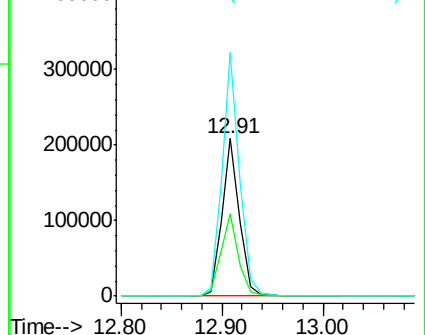
150 154.5 0.0 308.8

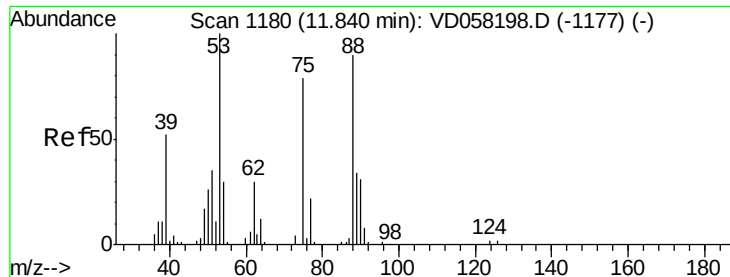


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 154.341 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058279.D

Acq: 22 Jun 2018 5:45

Instrument :

MSVOA\_D

ClientSampleId :

HC-SOIL-1

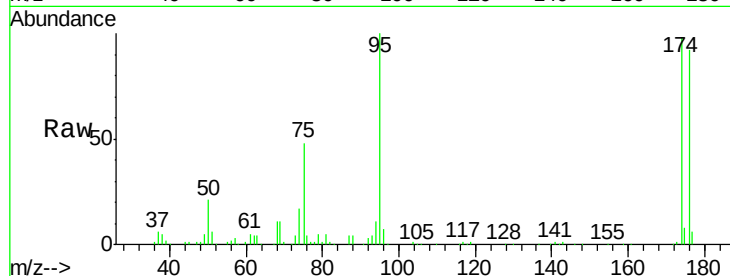
Tot Ion: 75 Resp: 138952

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

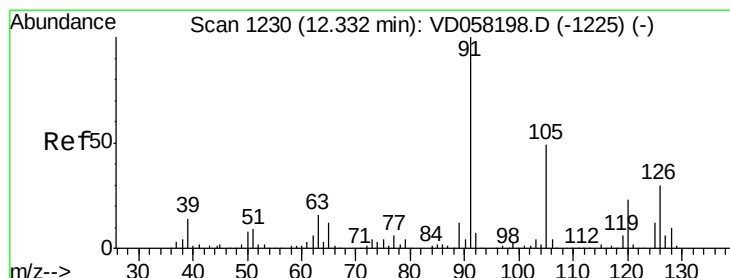
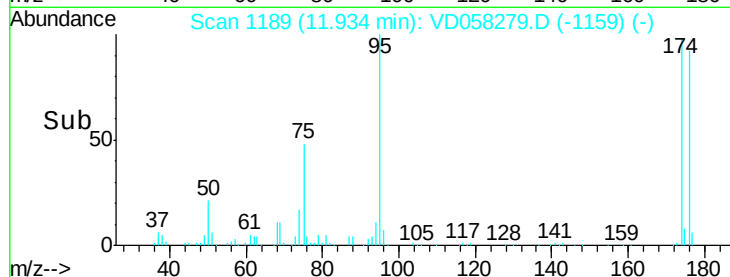
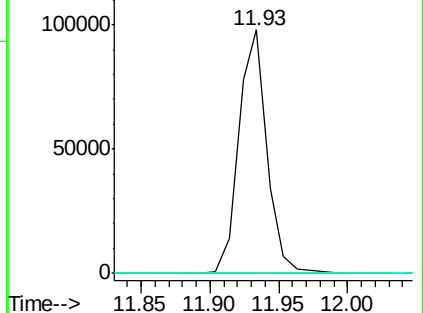
89 0.0 34.6 52.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD058279.D

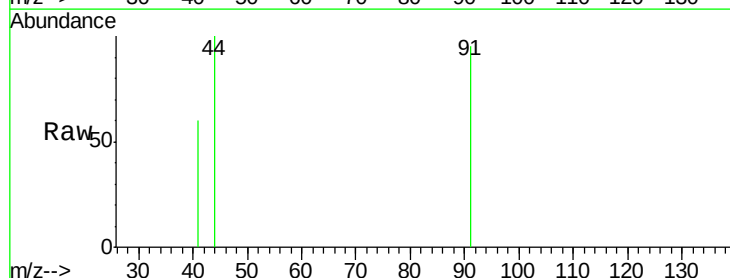
Acq: 22 Jun 2018 5:45

Tgt Ion: 91 Resp: 556

Ion Ratio Lower Upper

91 100

126 0.0 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

