

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058326.D
 Acq On : 23 Jun 2018 7:05
 Operator : VA/AP
 Sample : J3594-03RE
 Misc : 6.40g/5ml/MSVOA D/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HC-SOIL-2RE

Quant Time: Jun 25 00:55:24 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	5.67	168	16475	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	6.71	114	30893	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.69	117	32103	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	16748	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	19941	119.83	ug/l	0.03
Spiked Amount 50.000			Recovery =	239.66%		
35) Dibromofluoromethane	5.56	113	14359	57.11	ug/l	0.02
Spiked Amount 50.000			Recovery =	114.22%		
50) Toluene-d8	8.71	98	27185	44.69	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.38%		
62) 4-Bromofluorobenzene	11.93	95	15779	63.50	ug/l	0.00
Spiked Amount 50.000			Recovery =	127.00%		

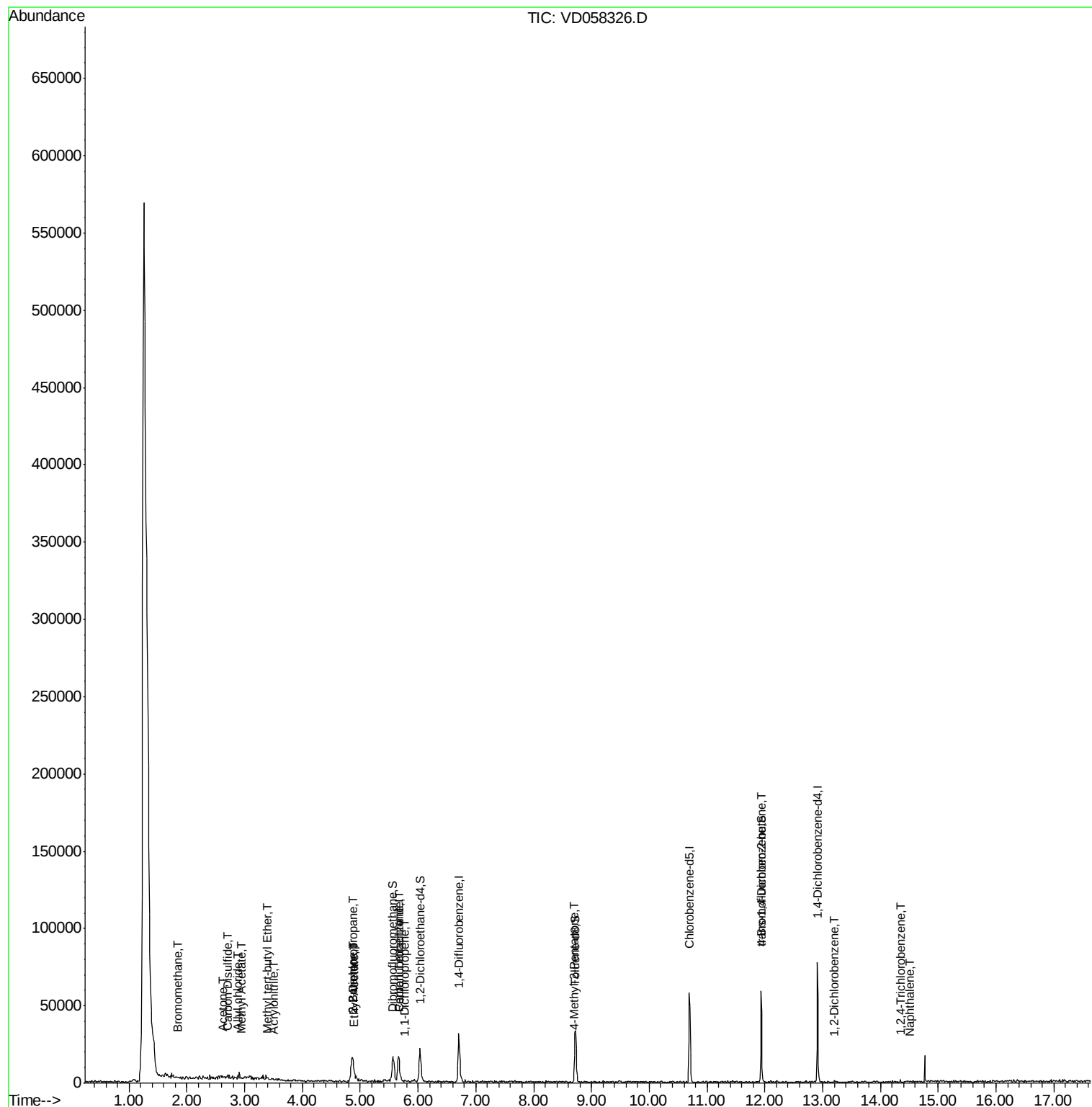
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.55	50	187	Below Cal	#	43
5) Bromomethane	1.84	94	189	5.333	ug/l #	3
14) Allyl chloride	2.89	41	206	1.564	ug/l #	89
15) Acrylonitrile	3.49	53	191	13.124	ug/l #	14
16) Acetone	2.62	43	621	27.287	ug/l #	62
17) Carbon Disulfide	2.71	76	269	1.397	ug/l #	76
18) Methyl Acetate	2.94	43	239	4.924	ug/l #	65
19) Methyl tert-butyl Ether	3.39	73	204	1.359	ug/l #	56
25) 2-Butanone	4.86	43	956	19.274	ug/l #	60
26) 2,2-Dichloropropane	4.86	77	1108	4.694	ug/l #	55
31) Cyclohexane	5.72	56	191	Below Cal	#	18
36) 1,1-Dichloropropene	5.76	75	402	1.315	ug/l #	43
37) Ethyl Acetate	4.90	43	193	1.108	ug/l #	72
38) Carbon Tetrachloride	5.66	117	1301	4.284	ug/l #	11
51) 4-Methyl-2-Pentanone	8.69	43	221	1.459	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.93	75	7686	128.877	ug/l #	1
91) 1,2-Dichlorobenzene	13.19	146	594	1.339	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.34	180	534	1.258	ug/l #	12
95) Naphthalene	14.52	128	696	1.245	ug/l #	70

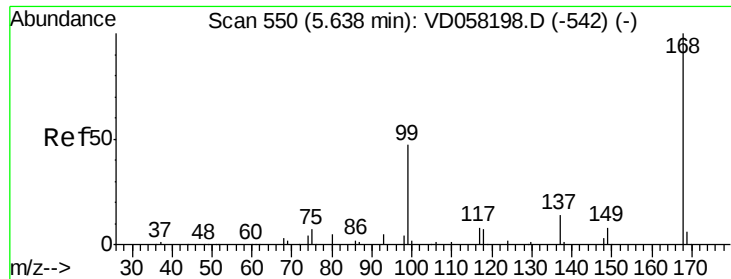
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.04 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

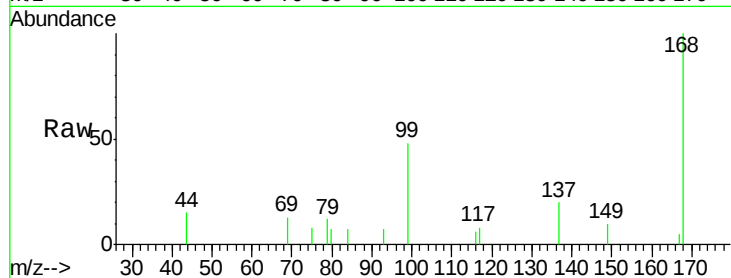
HC-SOIL-2RE

Tot Ion:168 Resp: 16475

Ion Ratio Lower Upper

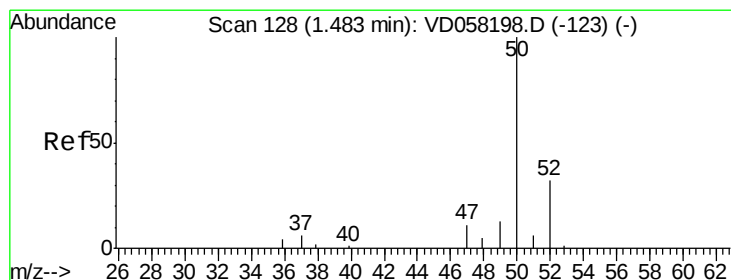
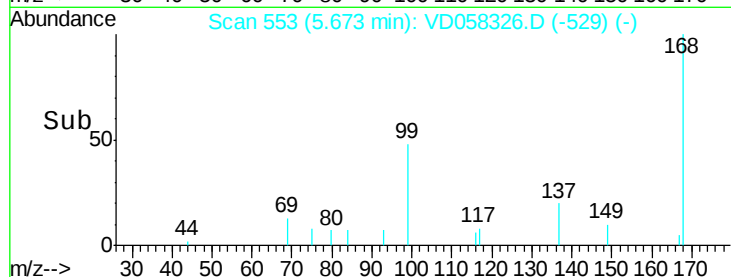
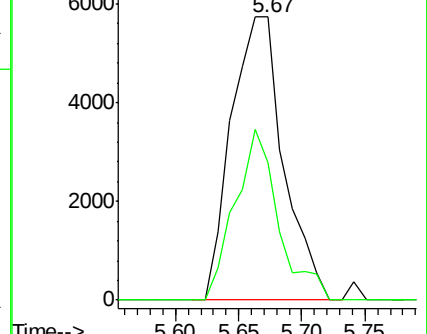
168 100

99 48.4 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.55 min Scan# 134

Delta R.T. 0.06 min

Lab File: VD058326.D

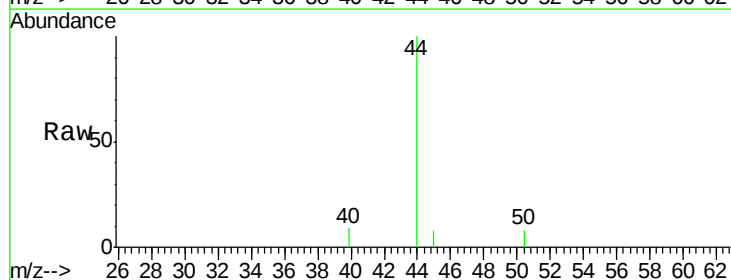
Acq: 23 Jun 2018 7:05

Tgt Ion: 50 Resp: 187

Ion Ratio Lower Upper

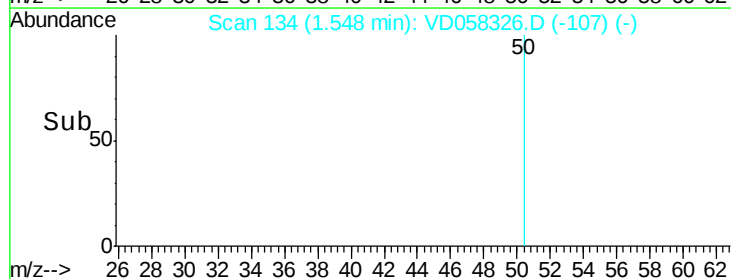
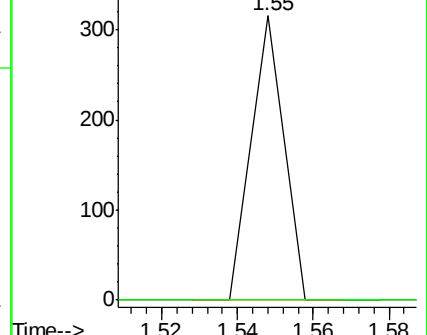
50 100

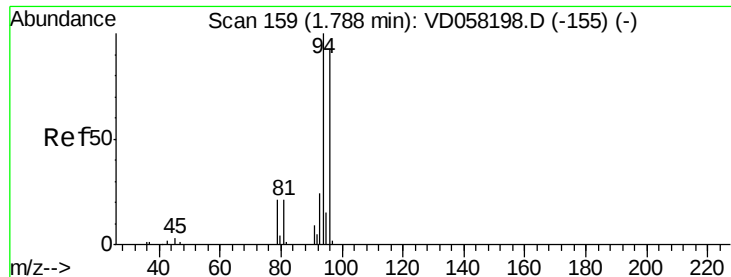
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 5.333 ug/l

RT: 1.84 min Scan# 164

Delta R.T. 0.06 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

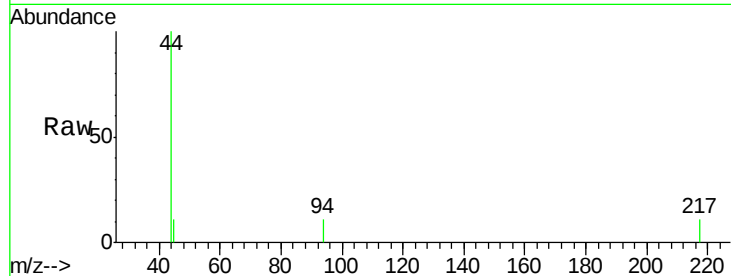
HC-SOIL-2RE

Tot Ion: 94 Resp: 189

Ion Ratio Lower Upper

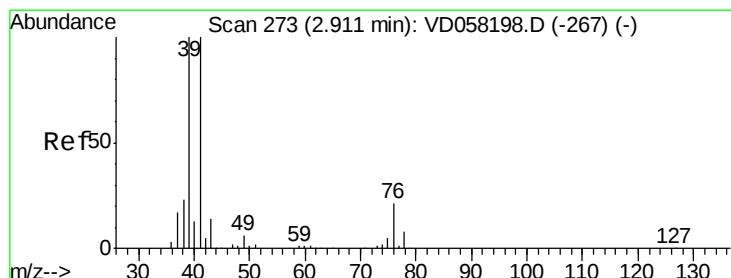
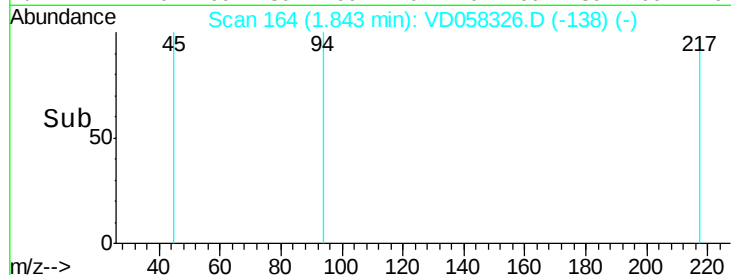
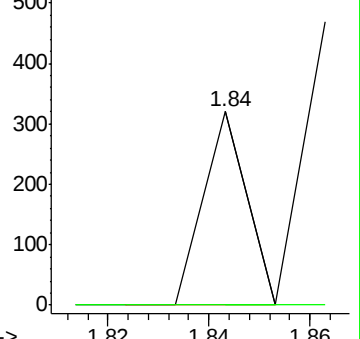
94 100

96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#14

Allyl chloride

Concen: 1.564 ug/l

RT: 2.89 min Scan# 270

Delta R.T. -0.02 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

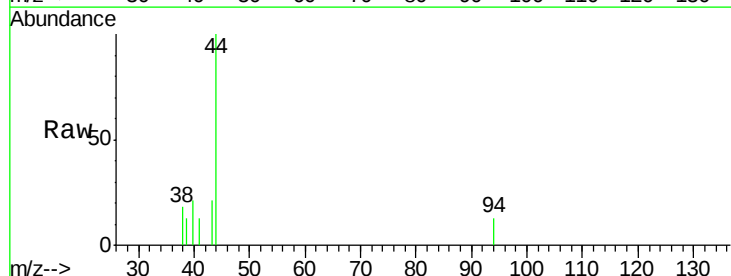
Tgt Ion: 41 Resp: 206

Ion Ratio Lower Upper

41 100

39 98.9 80.1 120.1

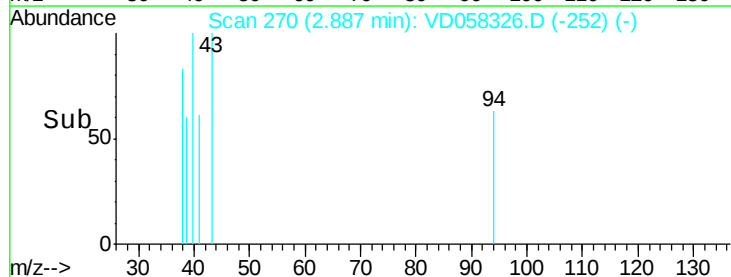
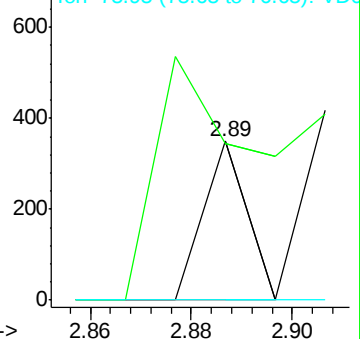
76 0.0 19.4 29.2#

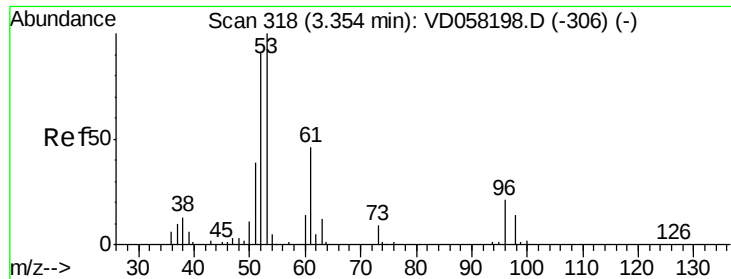


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 13.124 ug/l

RT: 3.49 min Scan# 331

Delta R.T. 0.13 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-2RE

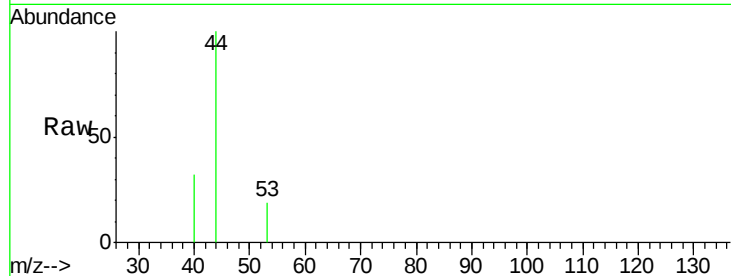
Tot Ion: 53 Resp: 191

Ion Ratio Lower Upper

53 100

52 0.0 72.6 108.8#

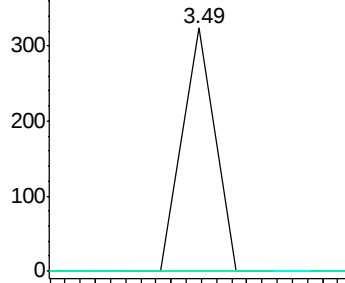
51 0.0 32.2 48.4#



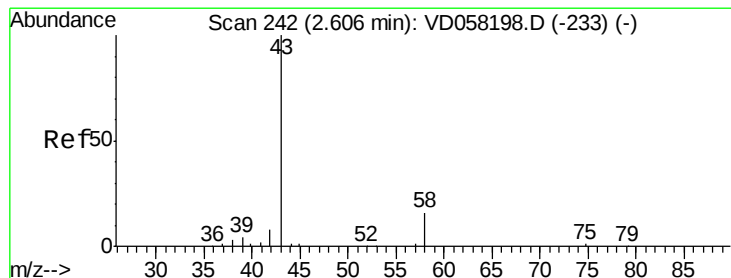
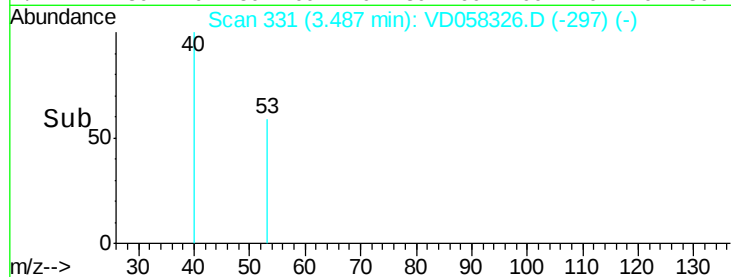
Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



Time-->



#16

Acetone

Concen: 27.287 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD058326.D

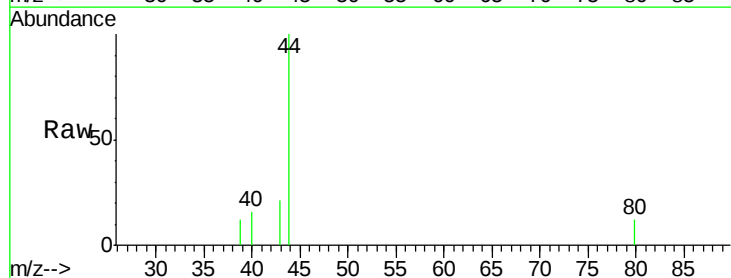
Acq: 23 Jun 2018 7:05

Tgt Ion: 43 Resp: 621

Ion Ratio Lower Upper

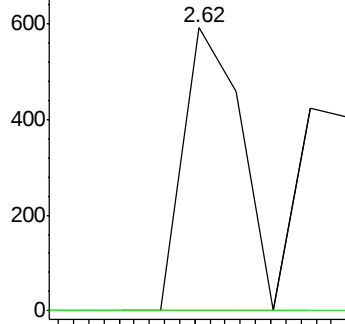
43 100

58 0.0 12.7 19.1#

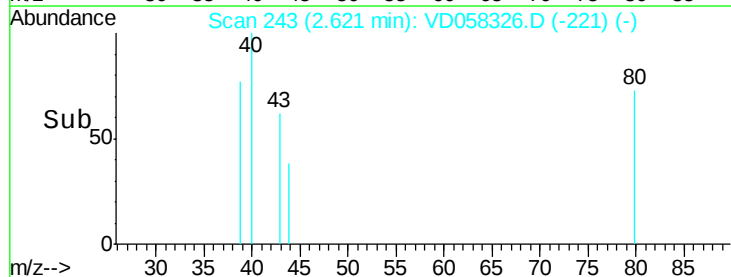


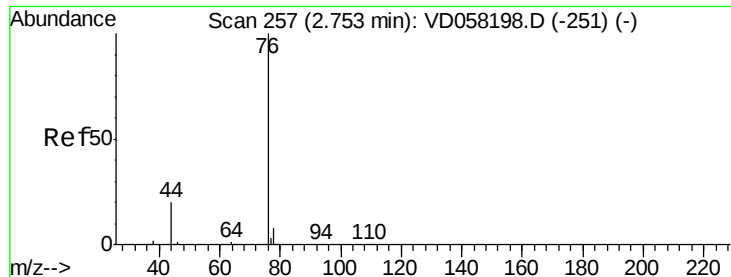
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->





#17

Carbon Disulfide

Concen: 1.397 ug/l

RT: 2.71 min Scan# 252

Delta R.T. -0.04 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

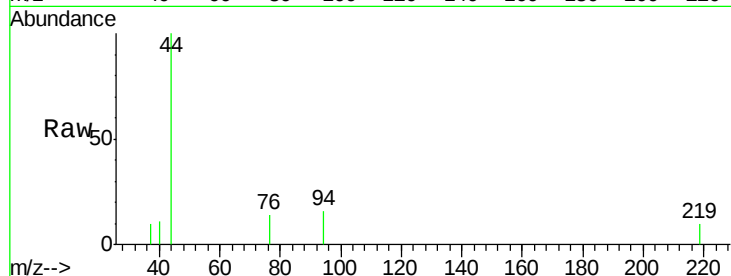
HC-SOIL-2RE

Tot Ion: 76 Resp: 269

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

2.71

400

300

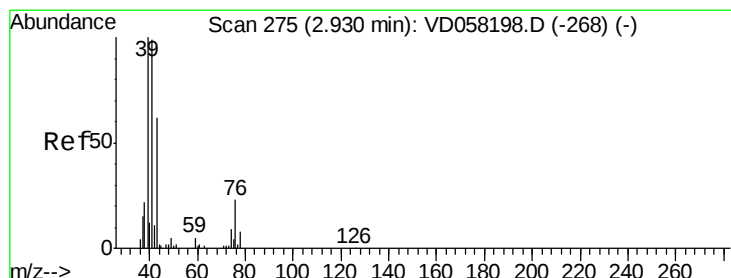
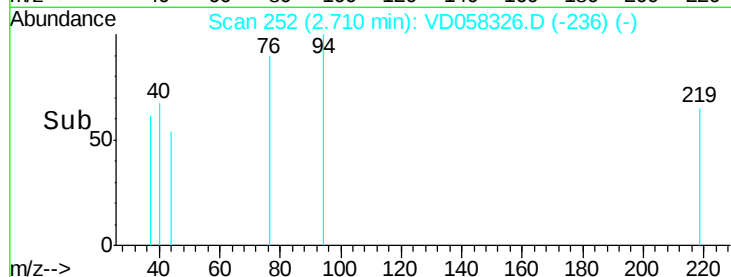
200

100

0

2.68 2.70 2.72 2.74

Time-->



#18

Methyl Acetate

Concen: 4.924 ug/l

RT: 2.94 min Scan# 275

Delta R.T. 0.01 min

Lab File: VD058326.D

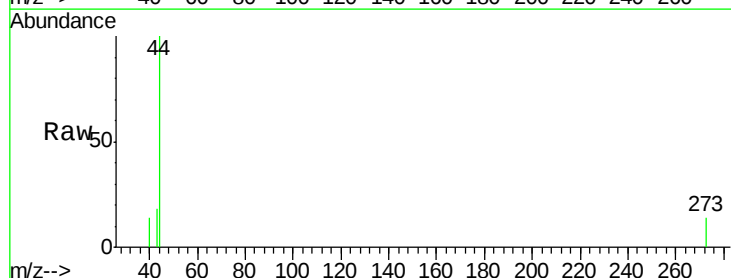
Acq: 23 Jun 2018 7:05

Tgt Ion: 43 Resp: 239

Ion Ratio Lower Upper

43 100

74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

2.94

400

300

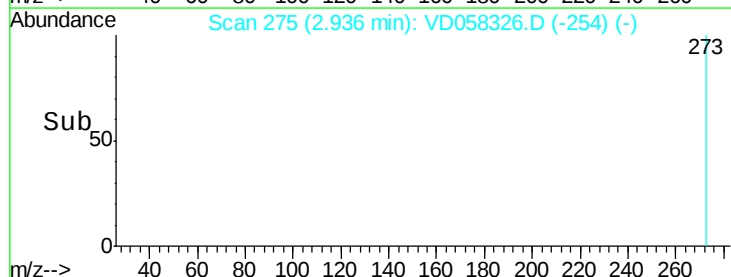
200

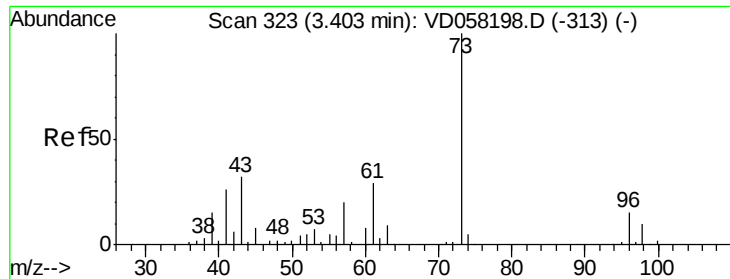
100

0

2.92 2.93 2.94 2.95

Time-->

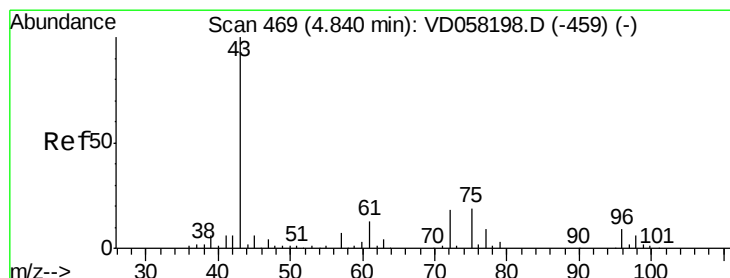
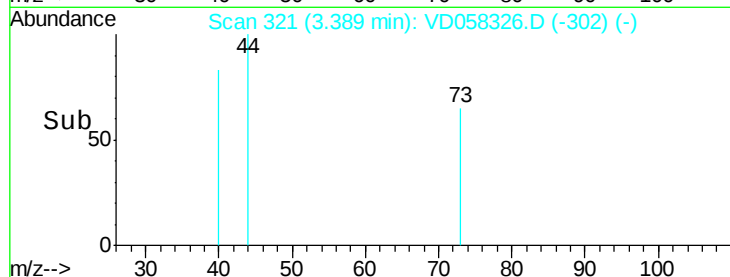
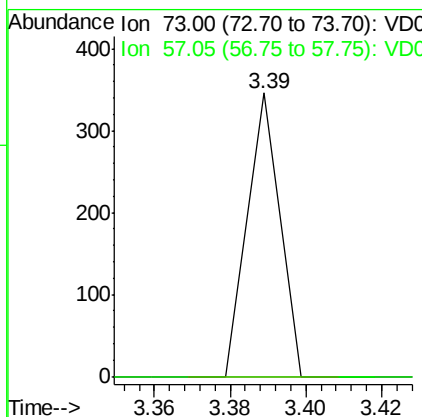
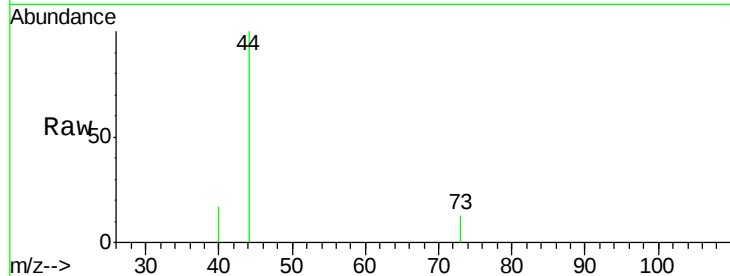




#19
Methvl tert-butvl Ether
Concen: 1.359 ug/l
RT: 3.39 min Scan# 321
Delta R.T. -0.01 min
Lab File: VD058326.D
Acq: 23 Jun 2018 7:05

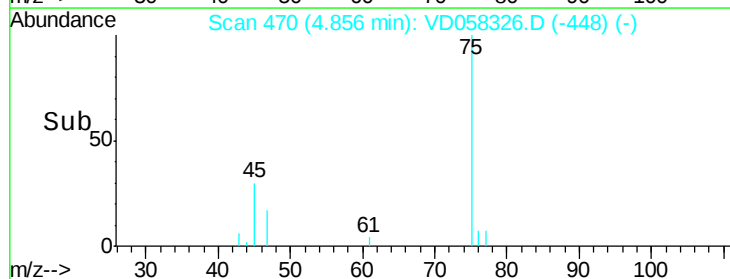
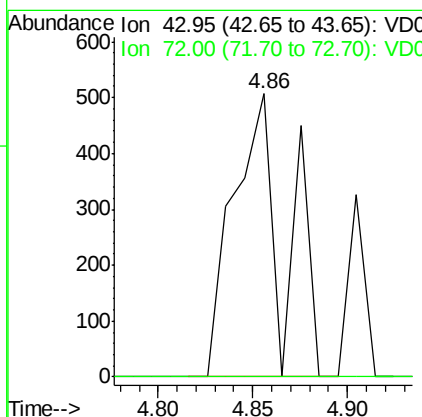
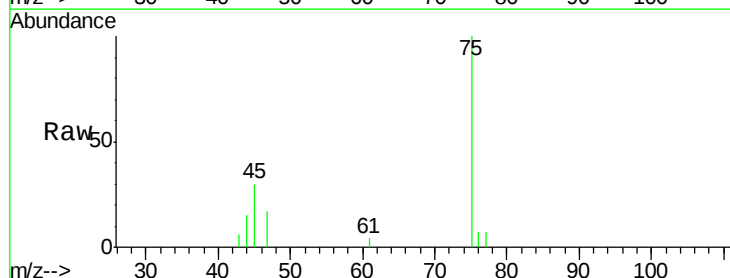
Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-2RE

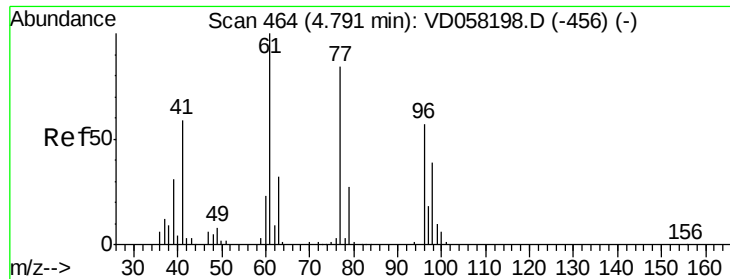
Tot Ion: 73 Resp: 204
Ion Ratio Lower Upper
73 100
57 0.0 16.6 24.8#



#25
2-Butanone
Concen: 19.274 ug/l
RT: 4.86 min Scan# 470
Delta R.T. 0.02 min
Lab File: VD058326.D
Acq: 23 Jun 2018 7:05

Tgt Ion: 43 Resp: 956
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#





#26

2,2-Dichloropropane

Concen: 4.694 ug/l

RT: 4.86 min Scan# 470

Delta R.T. 0.06 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

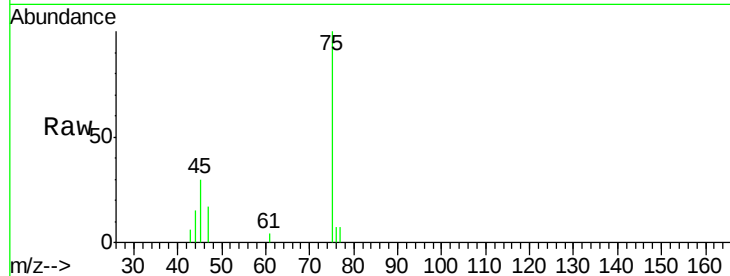
HC-SOIL-2RE

Tot Ion: 77 Resp: 1108

Ion Ratio Lower Upper

77 100

97 0.0 10.5 31.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

4.86

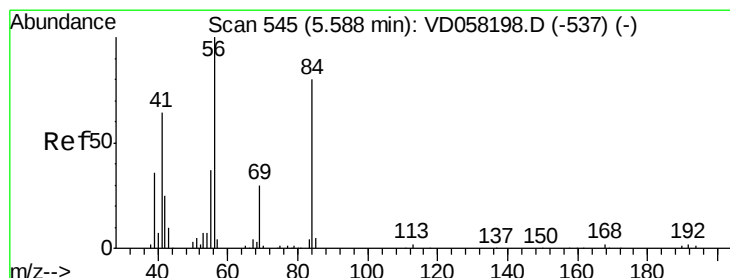
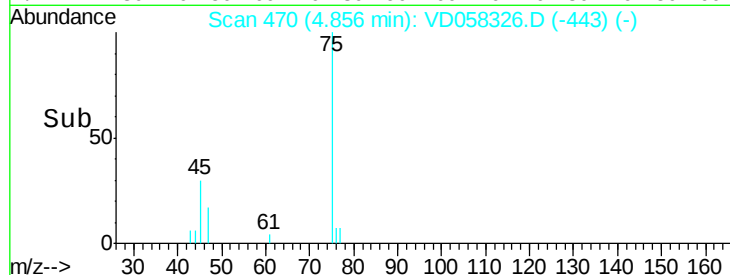
600

400

200

0

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 5.72 min Scan# 558

Delta R.T. 0.13 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

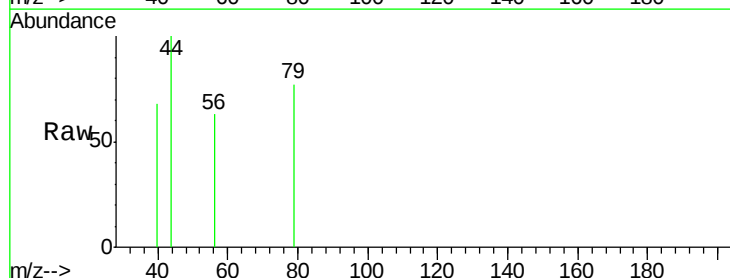
Tgt Ion: 56 Resp: 191

Ion Ratio Lower Upper

56 100

69 0.0 23.6 35.4#

84 0.0 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

5.72

400

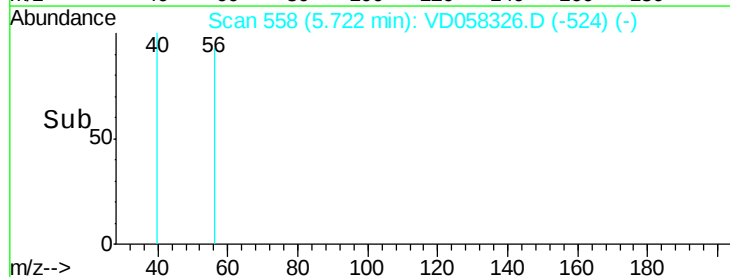
300

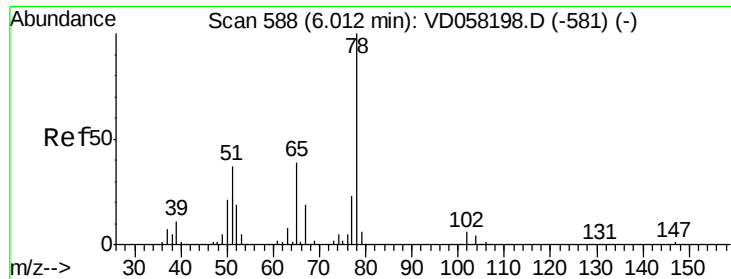
200

100

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.04 min Scan# 590

Delta R.T. 0.03 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

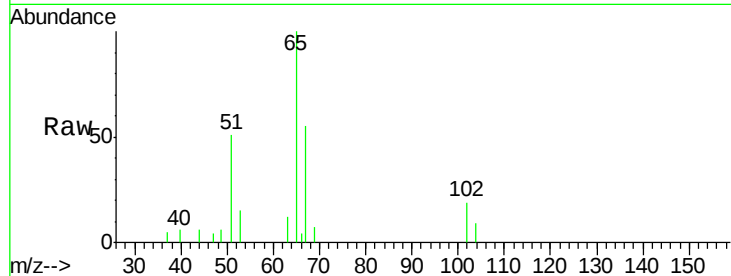
HC-SOIL-2RE

Tot Ion: 65 Resp: 19941

Ion Ratio Lower Upper

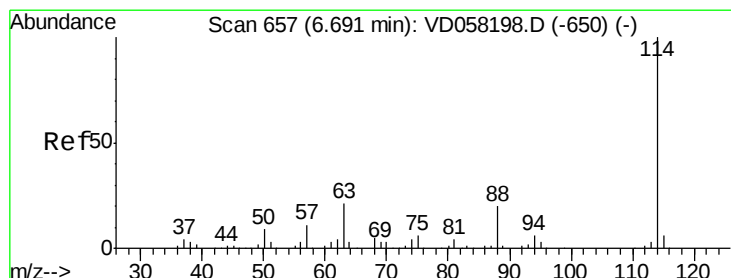
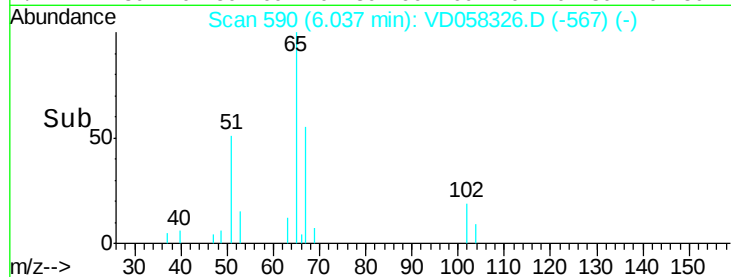
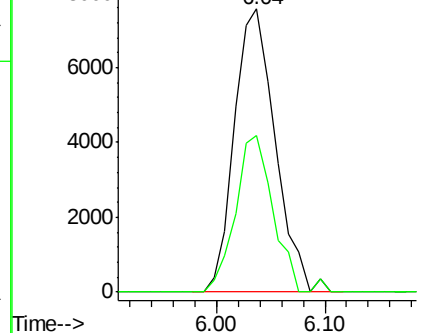
65 100

67 55.2 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: 6.71 min Scan# 658

Delta R.T. 0.02 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

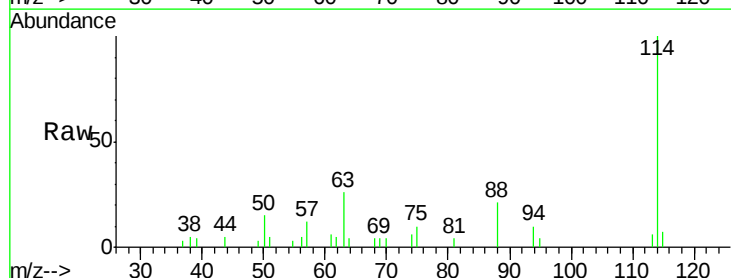
Tgt Ion: 114 Resp: 30893

Ion Ratio Lower Upper

114 100

63 26.1 0.0 42.6

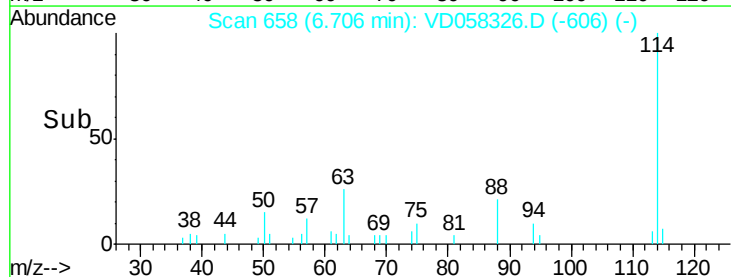
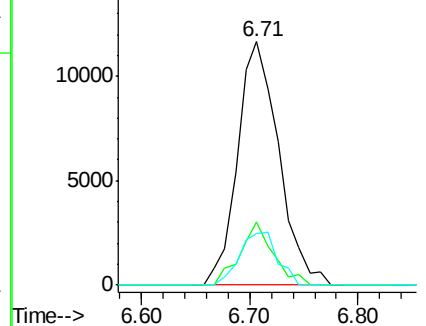
88 21.0 0.0 40.6

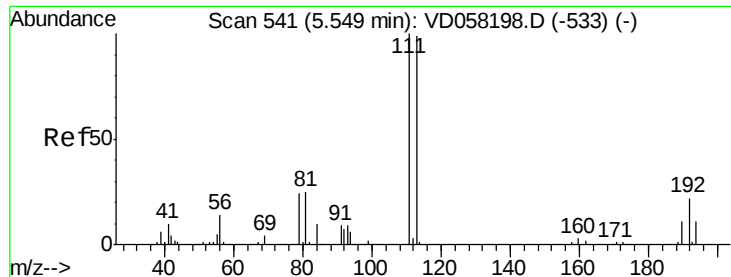


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.56 min Scan# 542

Delta R.T. 0.02 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-2RE

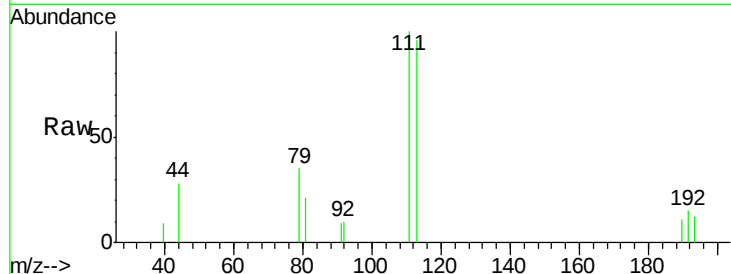
Tot Ion:113 Resp: 14359

Ion Ratio Lower Upper

113 100

111 104.6 80.6 121.0

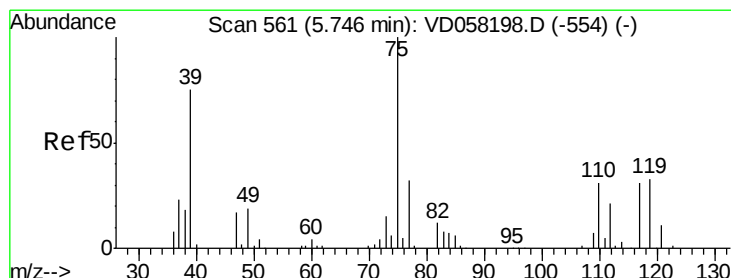
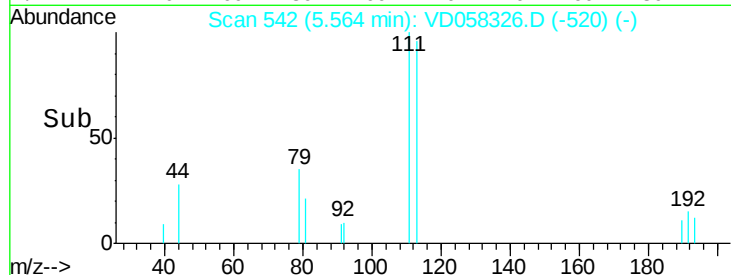
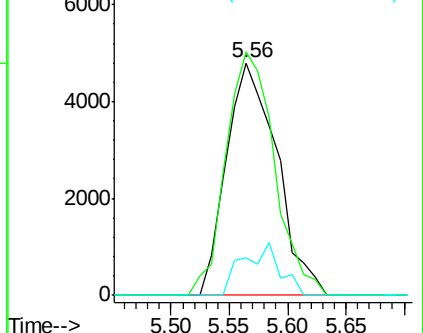
192 16.2 17.8 26.6#



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: 1.315 ug/l

RT: 5.76 min Scan# 562

Delta R.T. 0.02 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

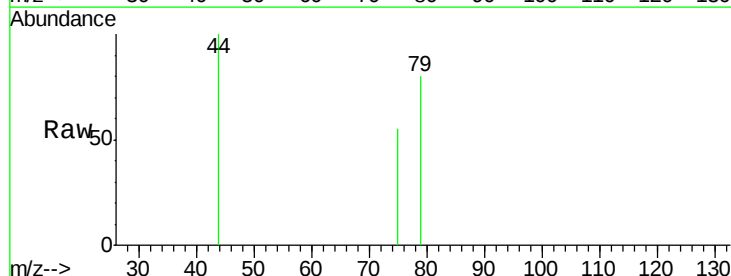
Tgt Ion: 75 Resp: 402

Ion Ratio Lower Upper

75 100

110 0.0 15.4 46.4#

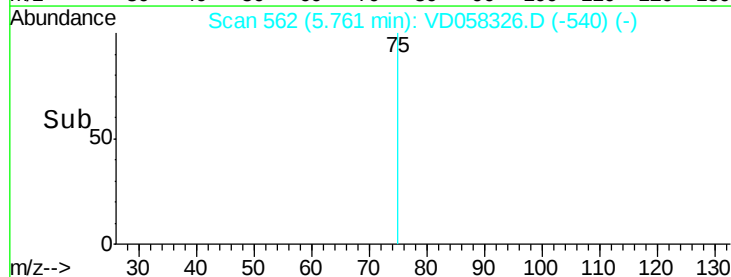
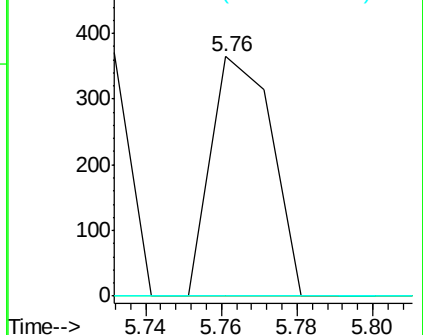
77 0.0 25.4 38.2#

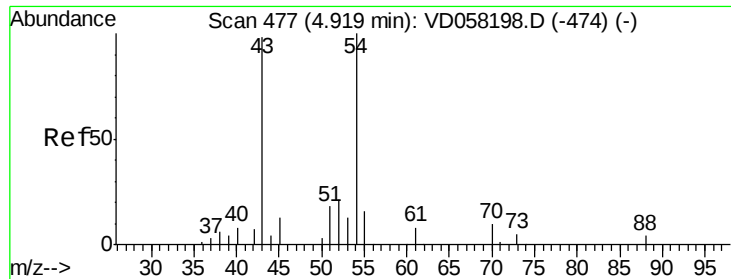


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

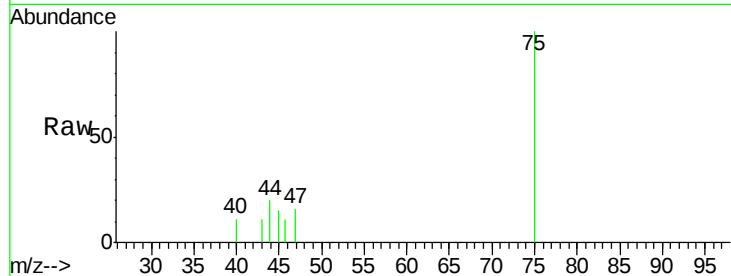




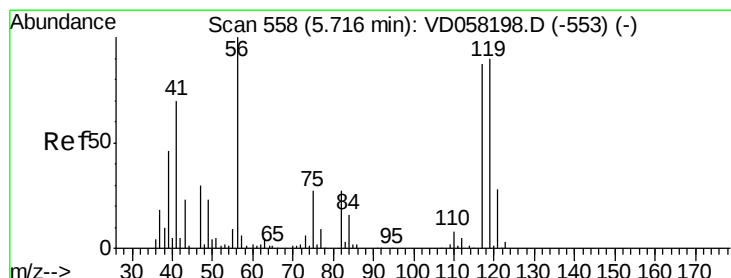
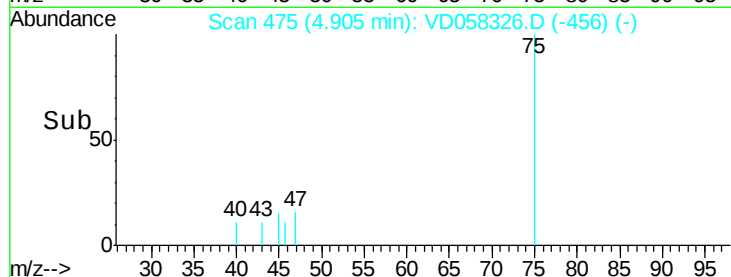
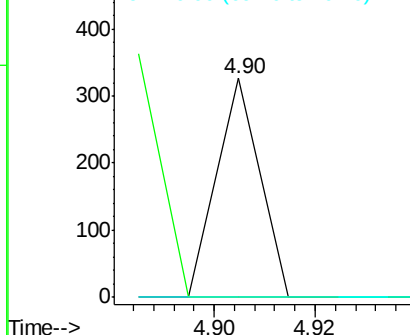
#37
Ethyl Acetate
Concen: 1.108 ug/l
RT: 4.90 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD058326.D
Acq: 23 Jun 2018 7:05

Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-2RE

Tot Ion: 43 Resp: 193
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 0.0 5.7 8.5#

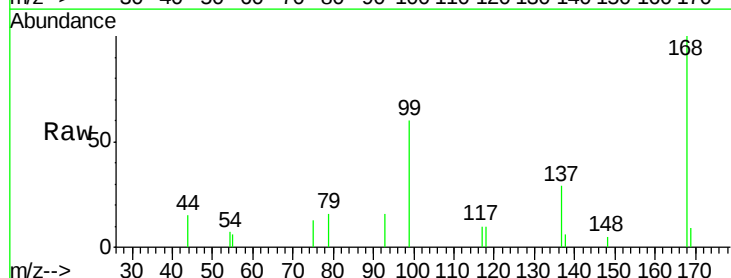


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

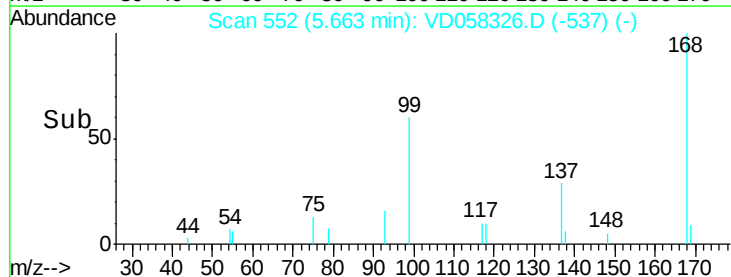
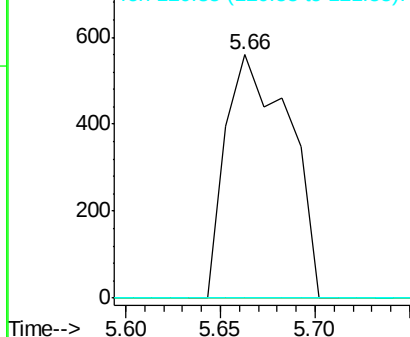


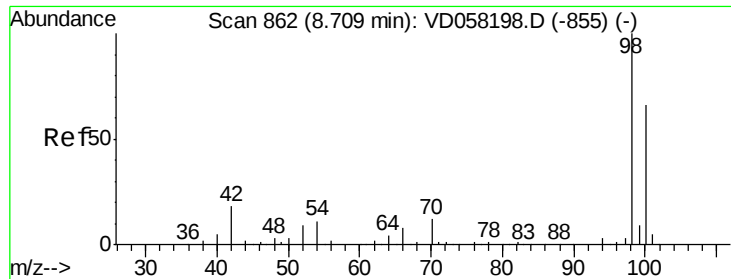
#38
Carbon Tetrachloride
Concen: 4.284 ug/l
RT: 5.66 min Scan# 552
Delta R.T. -0.05 min
Lab File: VD058326.D
Acq: 23 Jun 2018 7:05

Tgt Ion: 117 Resp: 1301
Ion Ratio Lower Upper
117 100
119 0.0 78.8 118.2#
121 0.0 25.0 37.6#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.01 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

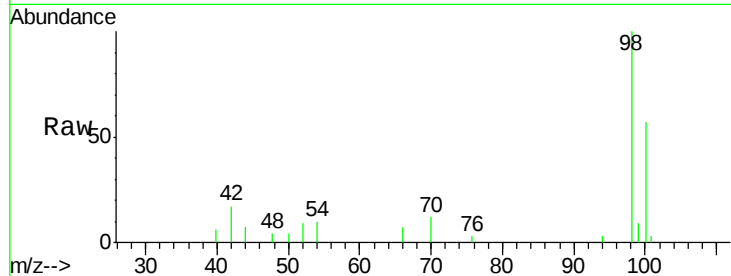
HC-SOIL-2RE

Tot Ion: 98 Resp: 27185

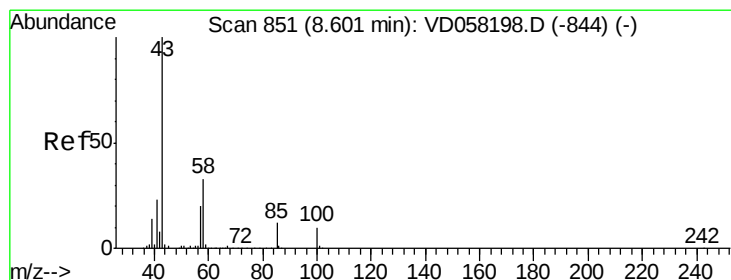
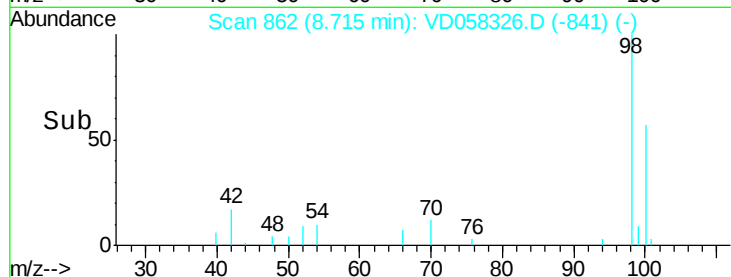
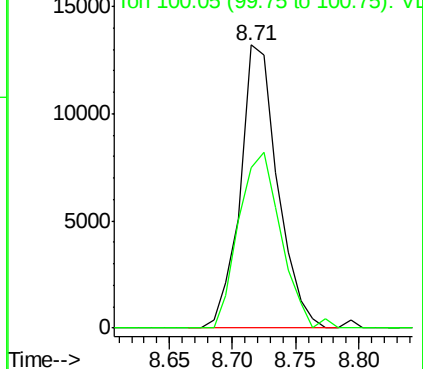
Ion Ratio Lower Upper

98 100

100 56.6 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VD058198.D (-855) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.459 ug/l

RT: 8.69 min Scan# 859

Delta R.T. 0.08 min

Lab File: VD058326.D

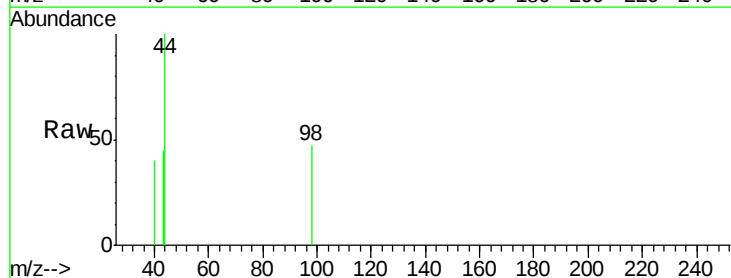
Acq: 23 Jun 2018 7:05

Tgt Ion: 43 Resp: 221

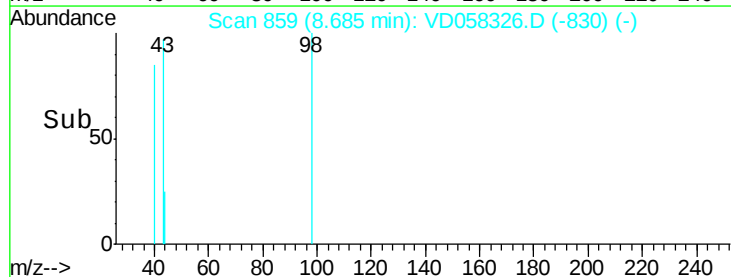
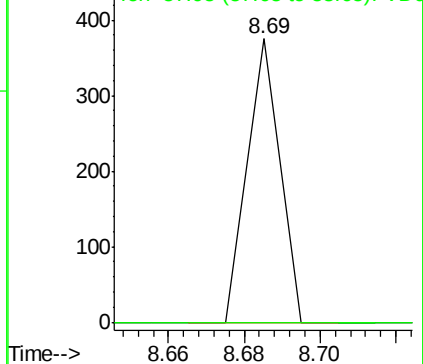
Ion Ratio Lower Upper

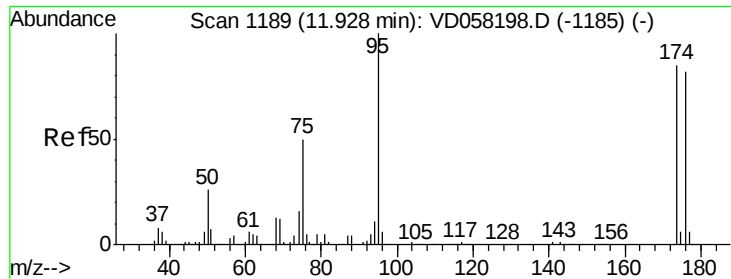
43 100

58 0.0 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VD058198.D (-844) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-2RE

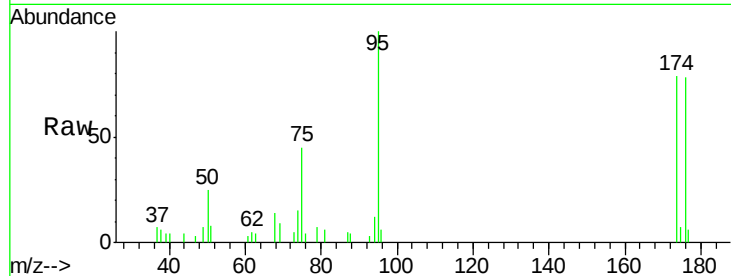
Tot Ion: 95 Resp: 15779

Ion Ratio Lower Upper

95 100

174 78.9 0.0 170.2

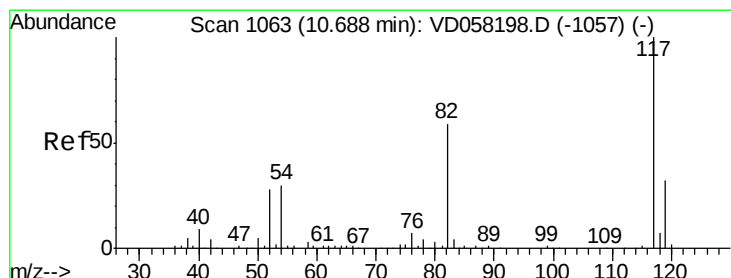
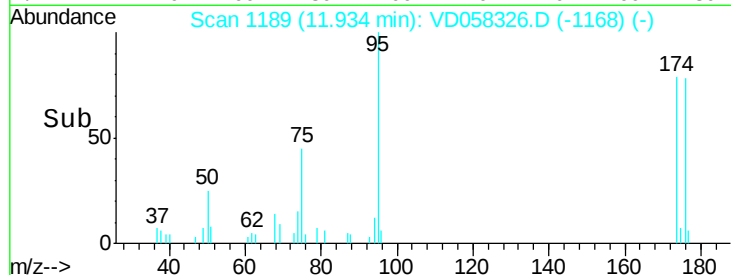
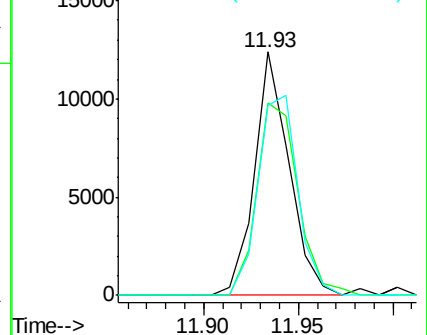
176 84.1 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): V

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: VD058326.D

Acq: 23 Jun 2018 7:05

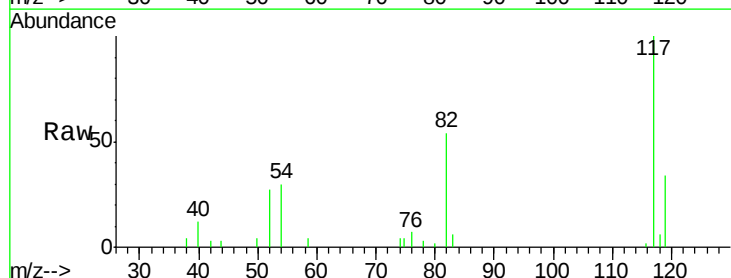
Tgt Ion: 117 Resp: 32103

Ion Ratio Lower Upper

117 100

82 54.1 47.0 70.6

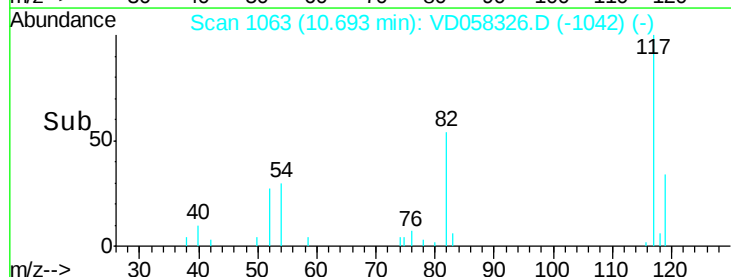
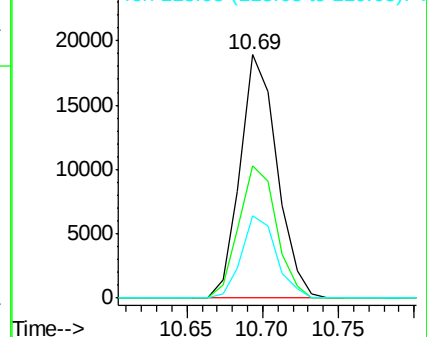
119 33.7 25.3 37.9

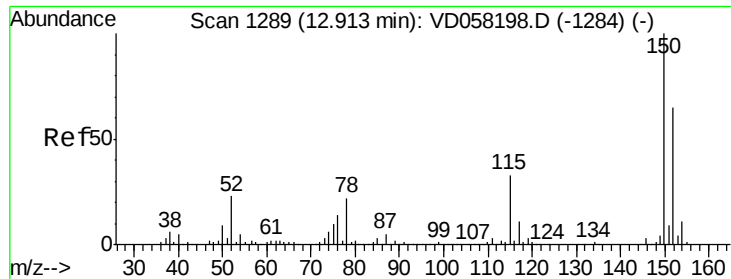


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD058326.D

Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-2RE

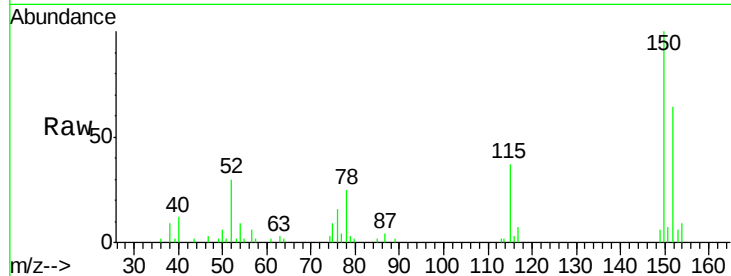
Tot Ion:152 Resp: 16748

Ion Ratio Lower Upper

152 100

115 57.3 25.1 75.3

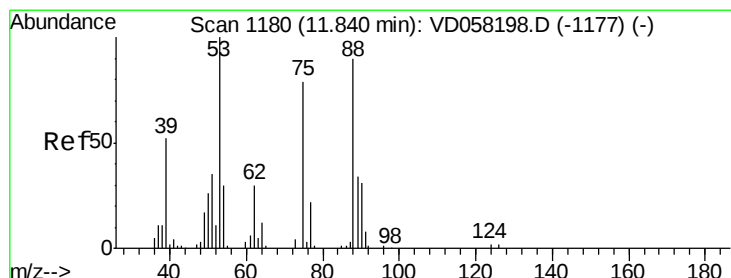
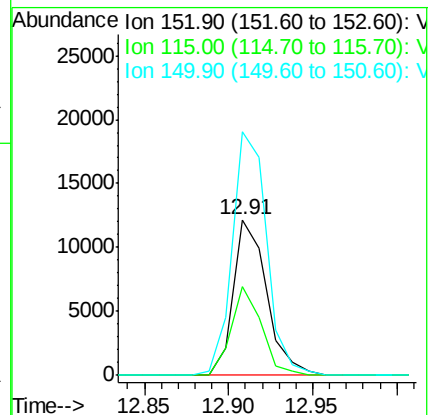
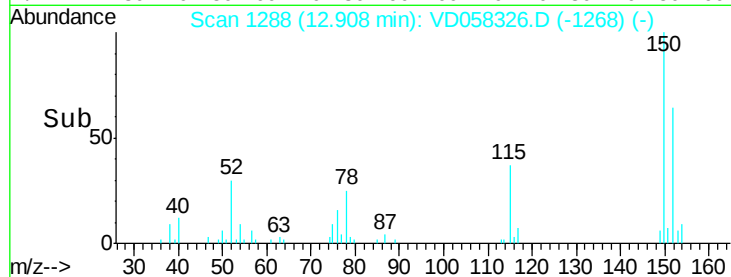
150 156.5 0.0 308.8



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: 128.877 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058326.D

Acq: 23 Jun 2018 7:05

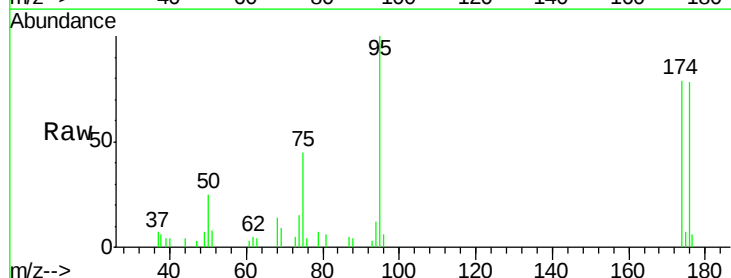
Tgt Ion: 75 Resp: 7686

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

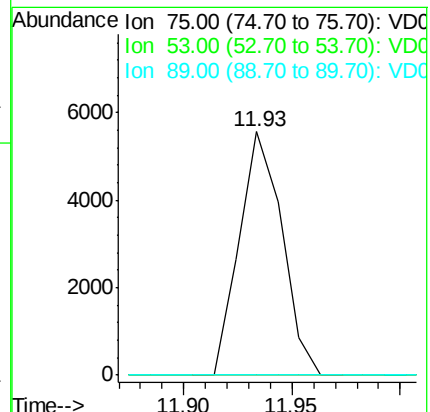
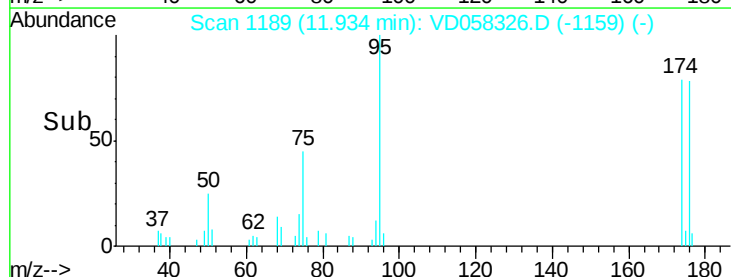
89 0.0 34.6 52.0#

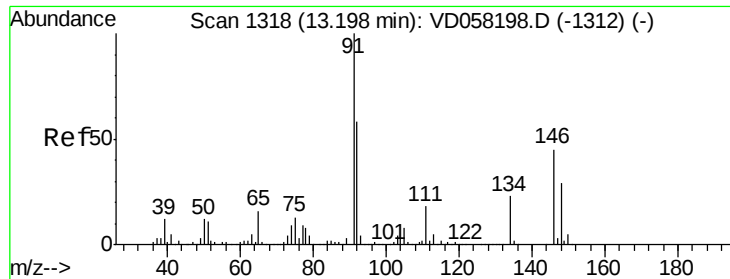


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

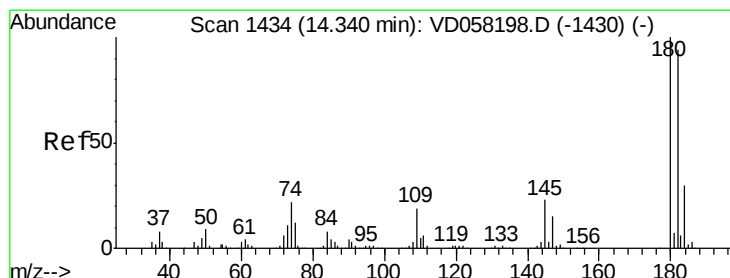
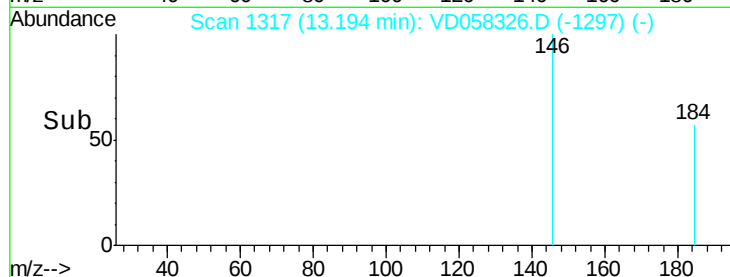
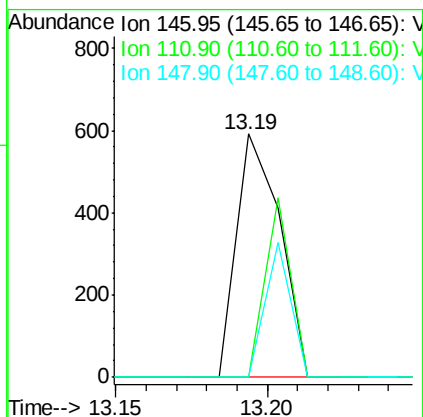
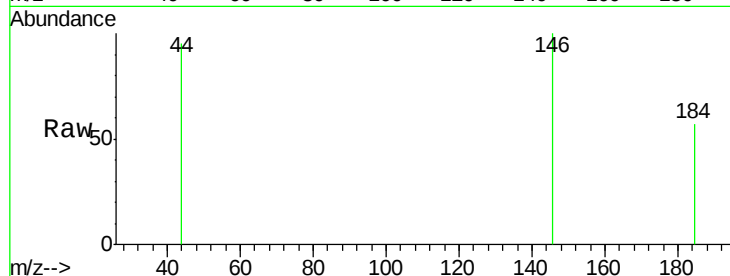




#91
 1,2-Dichlorobenzene
 Concen: 1.339 ug/l
 RT: 13.19 min Scan# 1317
 Delta R.T. -0.00 min
 Lab File: VD058326.D
 Acq: 23 Jun 2018 7:05

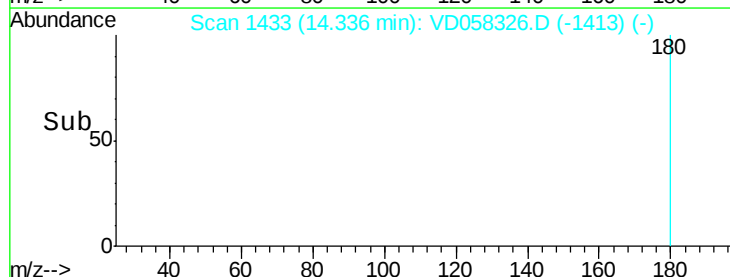
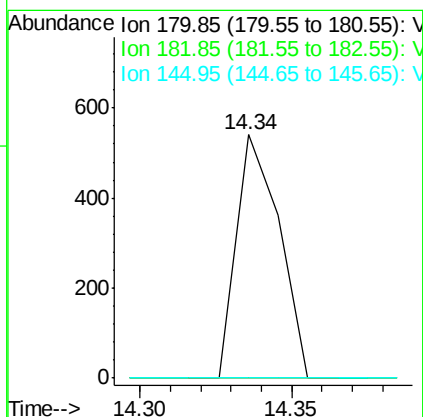
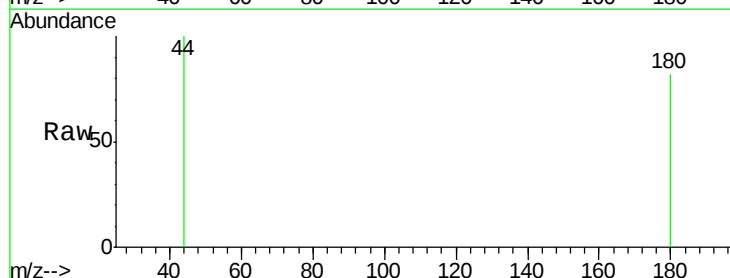
Instrument :
 MSVOA_D
 ClientSampleID :
 HC-SOIL-2RE

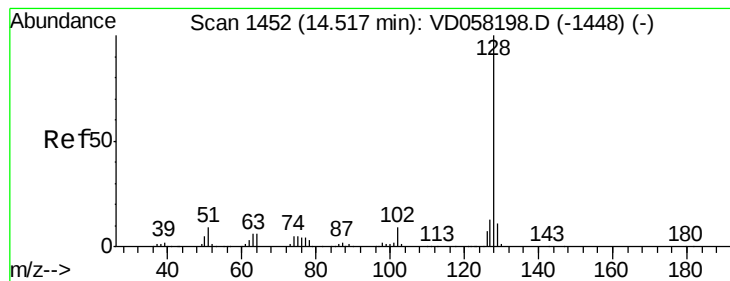
Tot Ion:146 Resp: 594
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.6 58.7#
 148 0.0 32.0 96.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.258 ug/l
 RT: 14.34 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: VD058326.D
 Acq: 23 Jun 2018 7:05

Tgt Ion:180 Resp: 534
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.1 141.3#
 145 0.0 11.7 35.0#





#95

Naphthalene

Concen: 1.245 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.01 min

Lab File: VD058326.D

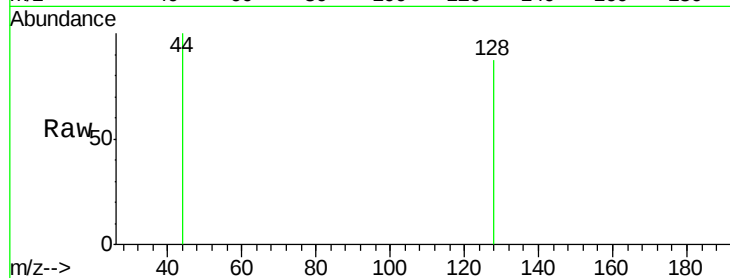
Acq: 23 Jun 2018 7:05

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-2RE



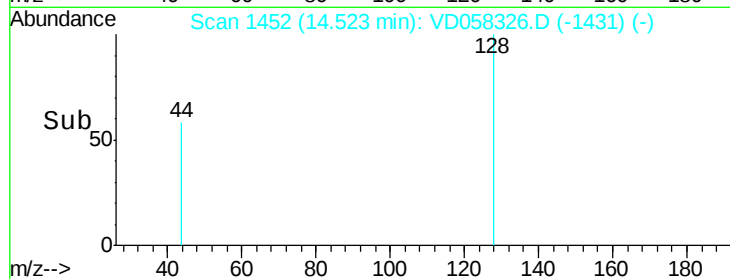
Tot Ion:128 Resp: 696

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

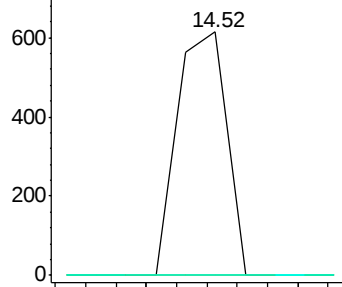
129 0.0 8.7 13.1#



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



Time-->