

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058327.D
 Acq On : 23 Jun 2018 7:34
 Operator : VA/AP
 Sample : J3594-07
 Misc : 6.47g/5ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HC-SOIL-4

Quant Time: Jun 25 00:55:38 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	5.66	168	67485	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	118295	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	105832	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.92	152	56026	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	75916	111.37	ug/l	0.02
Spiked Amount			Recovery	=	222.74%	
35) Dibromofluoromethane	5.57	113	62872	65.30	ug/l	0.02
Spiked Amount			Recovery	=	130.60%	
50) Toluene-d8	8.72	98	109630	47.06	ug/l	0.01
Spiked Amount			Recovery	=	94.12%	
62) 4-Bromofluorobenzene	11.94	95	52229	54.89	ug/l	0.01
Spiked Amount			Recovery	=	109.78%	

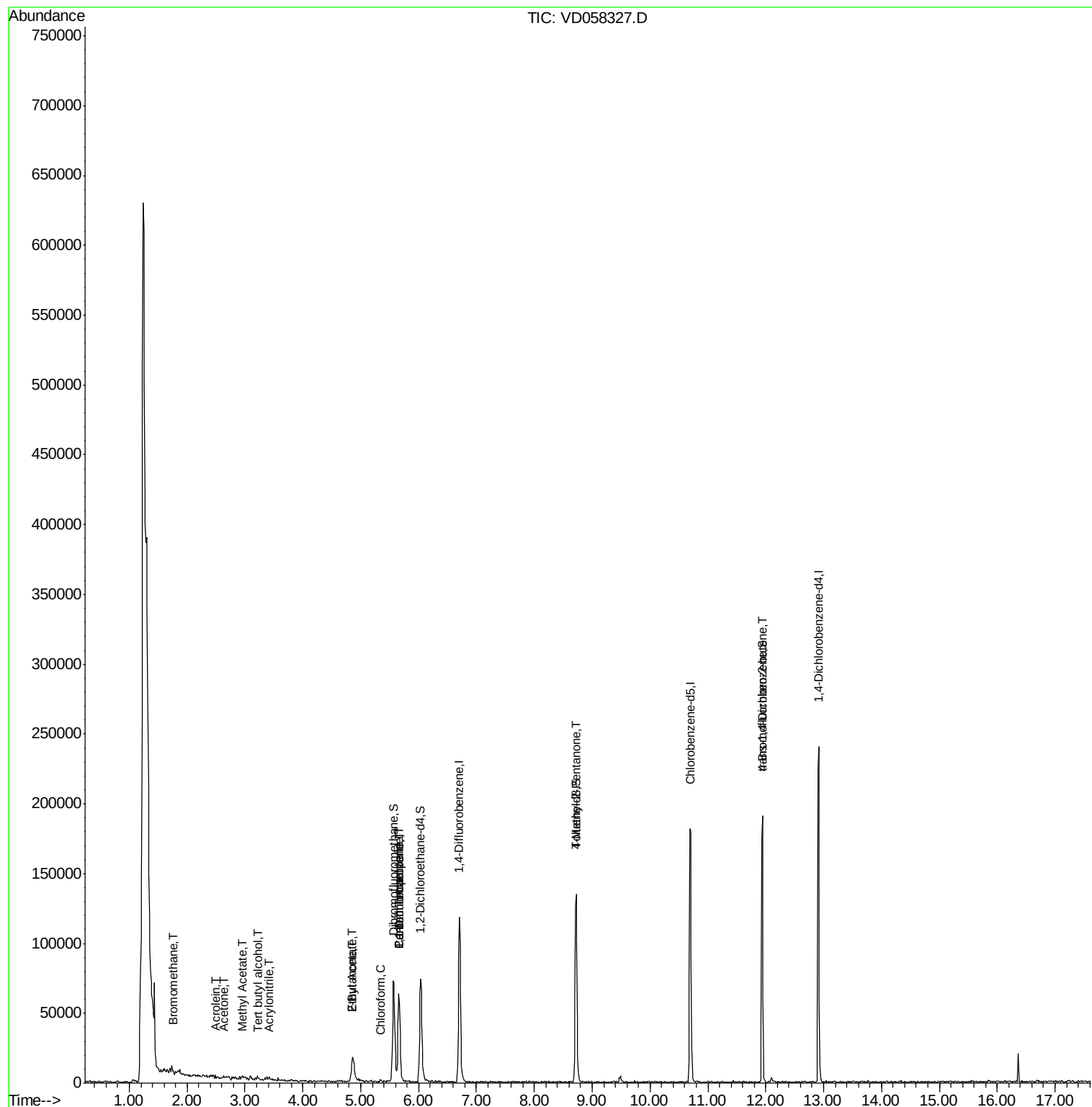
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.75	94	301	1.877	ug/l #	3
11) Tert butyl alcohol	3.23	59	605	26.910	ug/l #	78
13) Acrolein	2.49	56	209	16.285	ug/l #	74
15) Acrylonitrile	3.42	53	223	3.741	ug/l #	14
16) Acetone	2.63	43	3569	38.285	ug/l #	62
18) Methyl Acetate	2.95	43	1886	9.486	ug/l #	65
20) Methylene Chloride	3.10	84	569	Below Cal	#	53
25) 2-Butanone	4.85	43	1515	7.457	ug/l #	60
30) Chloroform	5.34	83	1545	1.267	ug/l #	88
31) Cyclohexane	5.66	56	1494	Below Cal	#	17
36) 1,1-Dichloropropene	5.65	75	5685	4.858	ug/l #	43
37) Ethyl Acetate	4.85	43	1515	2.272	ug/l #	5
38) Carbon Tetrachloride	5.67	117	5287	4.547	ug/l #	11
51) 4-Methyl-2-Pentanone	8.71	43	633	1.092	ug/l #	44
81) trans-1,4-Dichloro-2-buten	11.93	75	26937	135.020	ug/l #	1
82) 4-Chlorotoluene	12.32	91	188	Below Cal	#	45

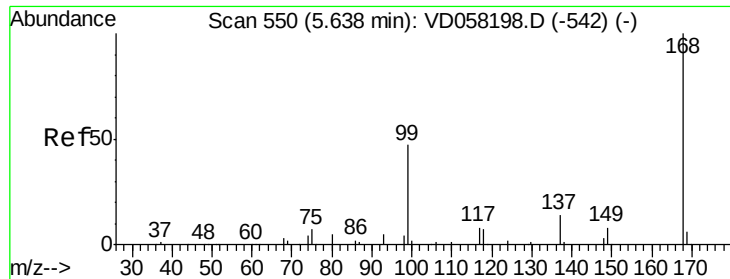
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058327.D

Acq: 23 Jun 2018 7:34

Instrument :

MSVOA_D

ClientSampleId :

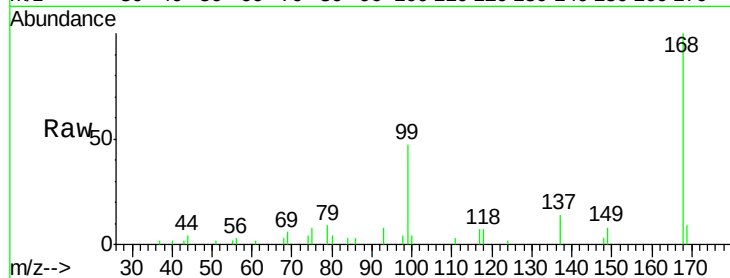
HC-SOIL-4

Tot Ion:168 Resp: 67485

Ion Ratio Lower Upper

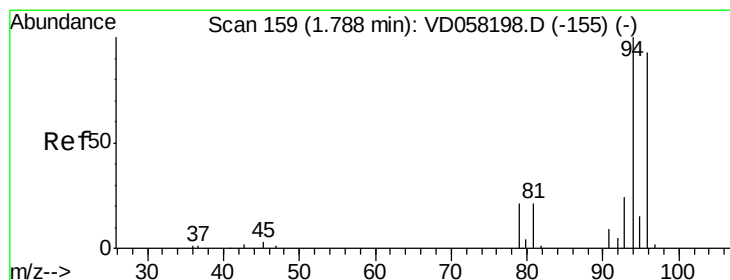
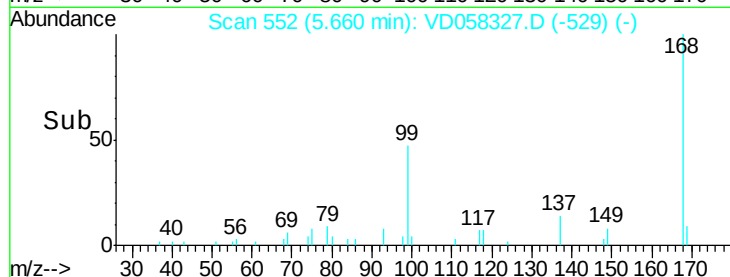
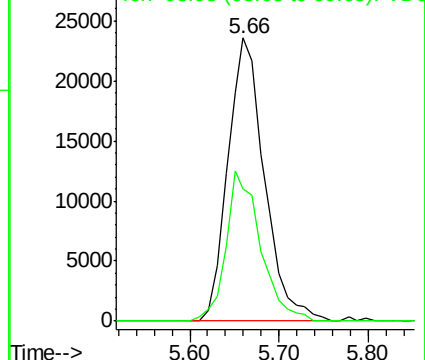
168 100

99 46.6 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.877 ug/l

RT: 1.75 min Scan# 155

Delta R.T. -0.04 min

Lab File: VD058327.D

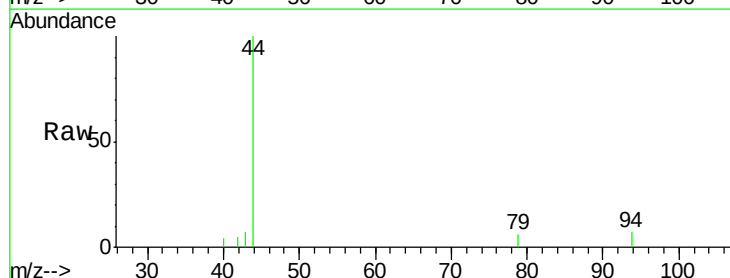
Acq: 23 Jun 2018 7:34

Tgt Ion: 94 Resp: 301

Ion Ratio Lower Upper

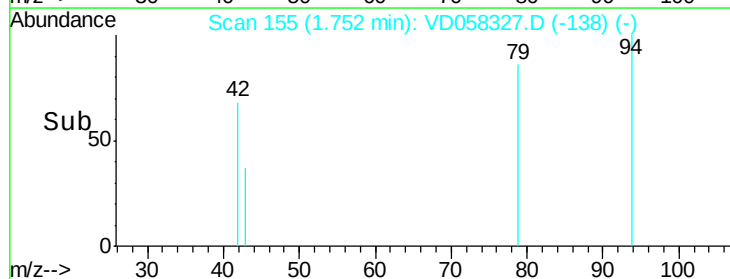
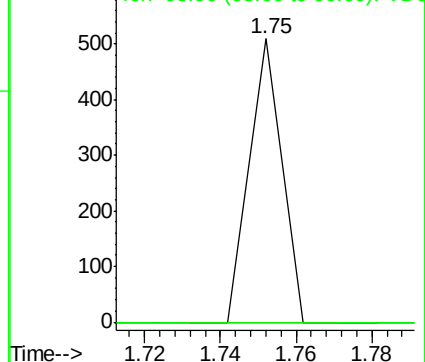
94 100

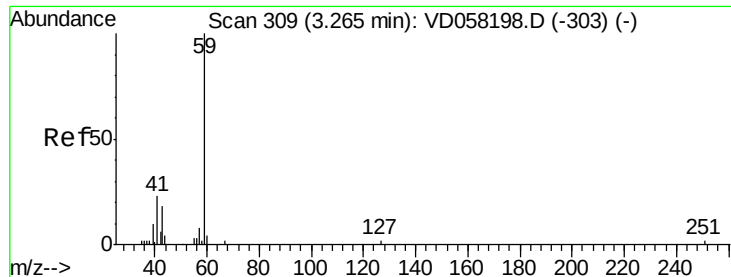
96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

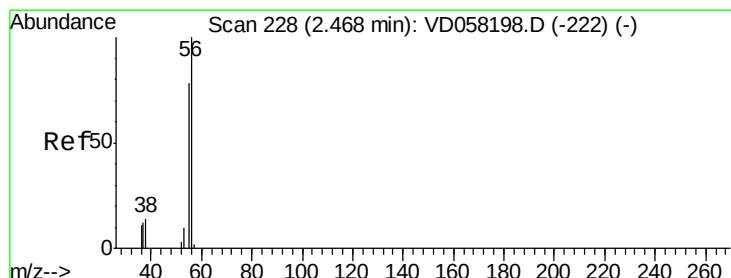
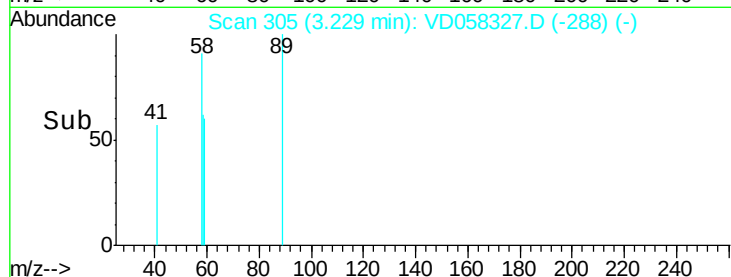
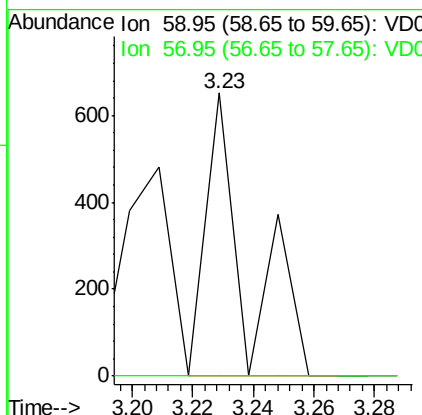
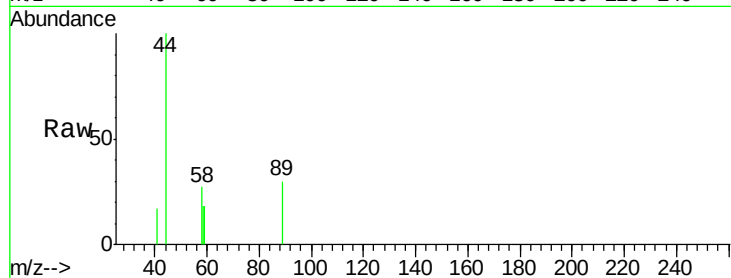




#11
Tert butyl alcohol
Concen: 26.910 ug/l
RT: 3.23 min Scan# 305
Delta R.T. -0.04 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

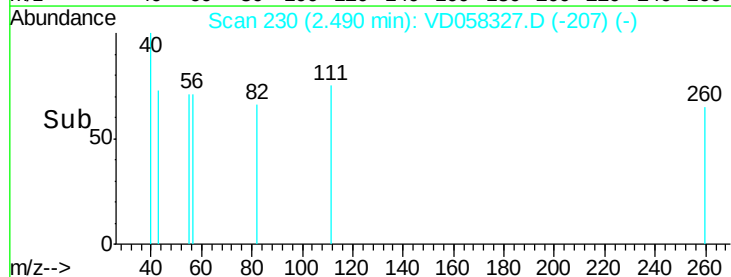
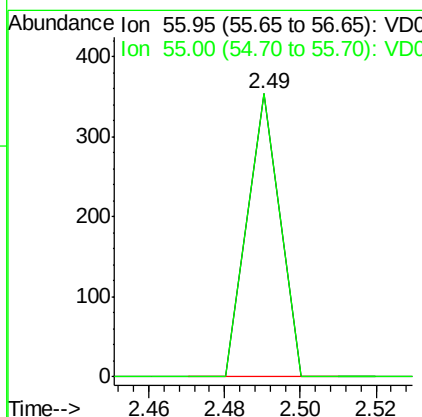
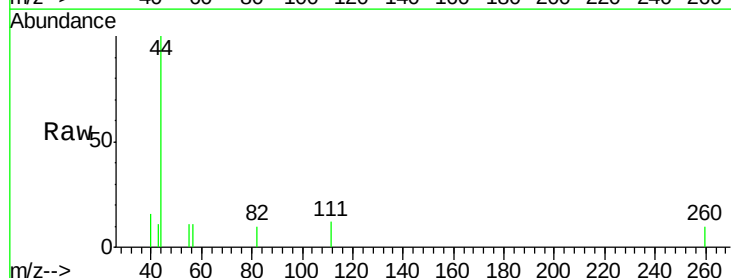
Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

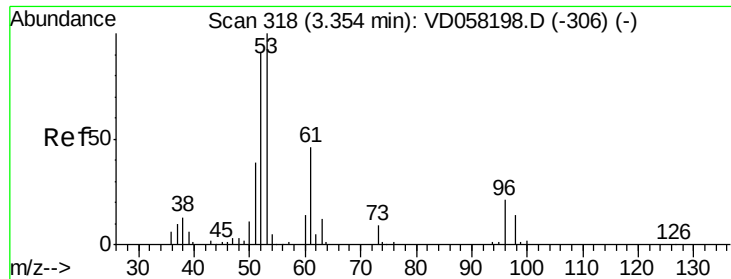
Tot Ion: 59 Resp: 605
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.4#



#13
Acrolein
Concen: 16.285 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.02 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

Tgt Ion: 56 Resp: 209
Ion Ratio Lower Upper
56 100
55 100.0 62.1 93.1#





#15

Acrylonitrile

Concen: 3.741 ug/l

RT: 3.42 min Scan# 324

Delta R.T. 0.06 min

Lab File: VD058327.D

Acq: 23 Jun 2018 7:34

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-4

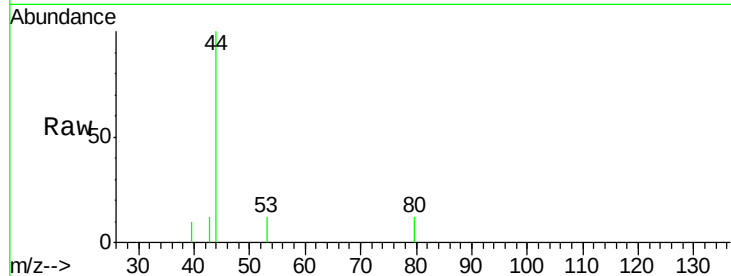
Tot Ion: 53 Resp: 223

Ion Ratio Lower Upper

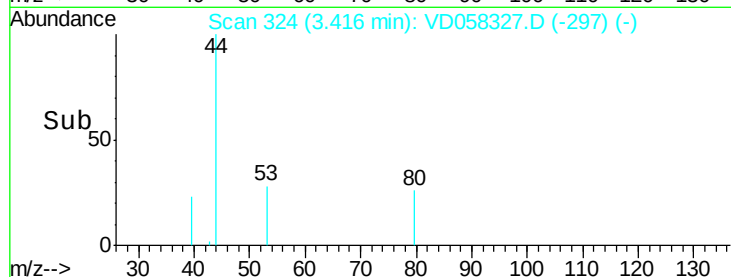
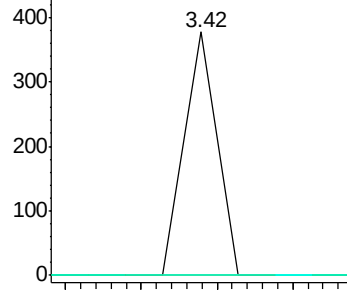
53 100

52 0.0 72.6 108.8#

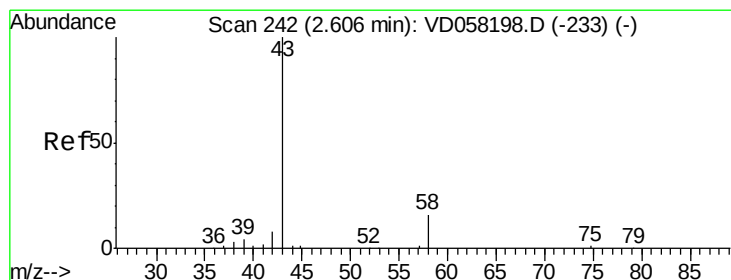
51 0.0 32.2 48.4#



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: 38.285 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058327.D

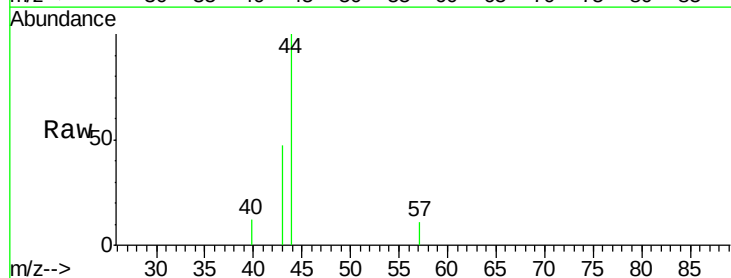
Acq: 23 Jun 2018 7:34

Tgt Ion: 43 Resp: 3569

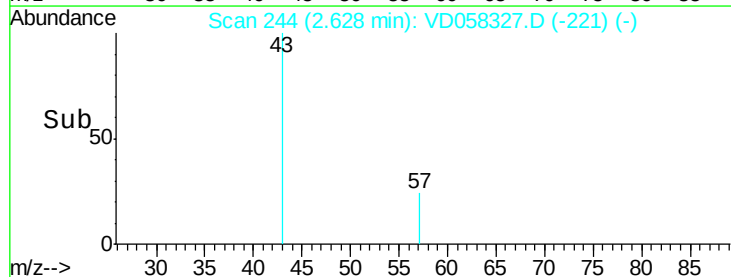
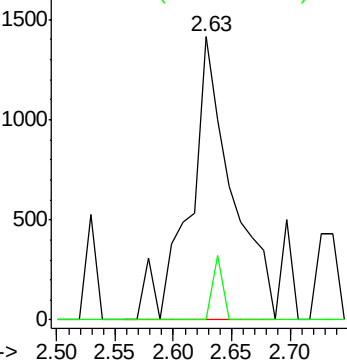
Ion Ratio Lower Upper

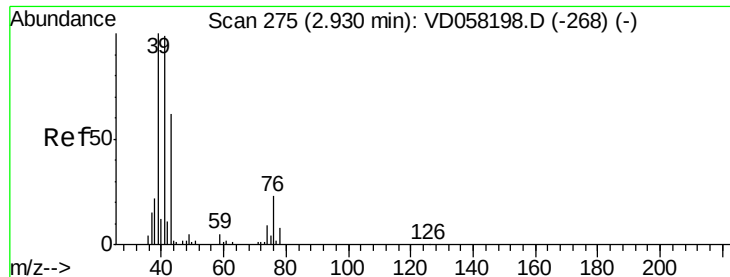
43 100

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

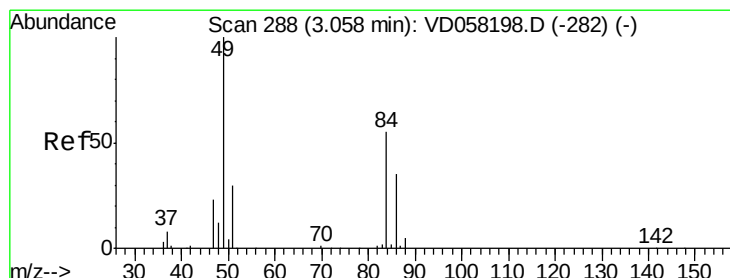
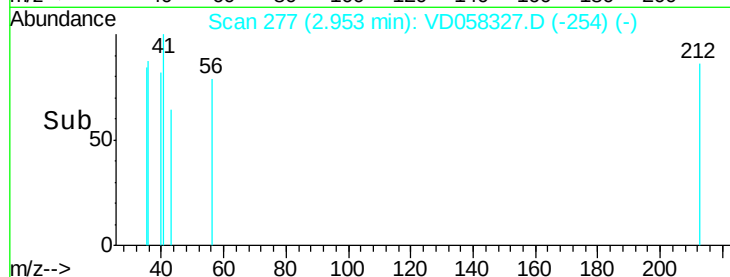
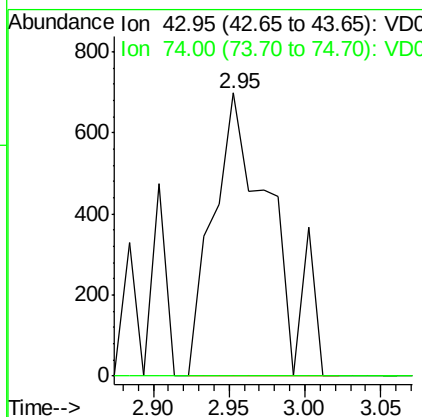
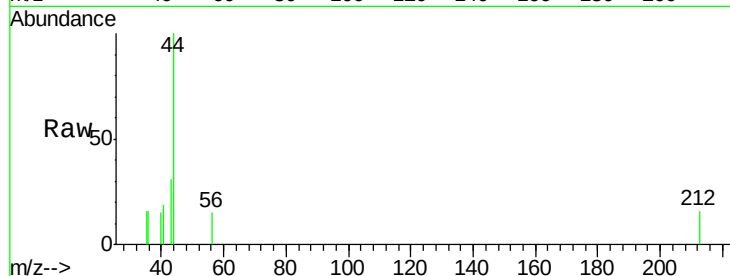




#18
Methyl Acetate
Concen: 9.486 ug/l
RT: 2.95 min Scan# 277
Delta R.T. 0.02 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

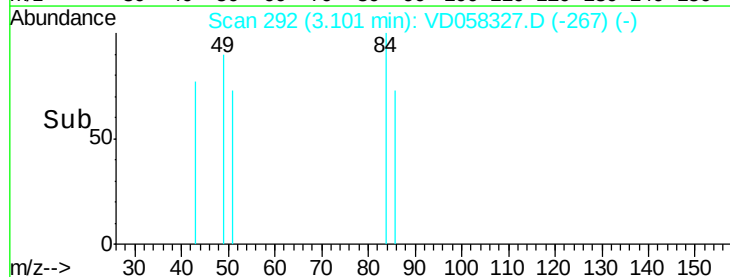
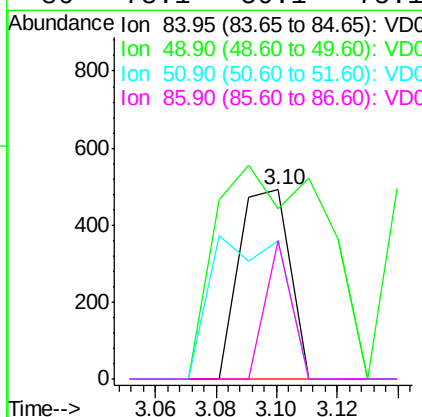
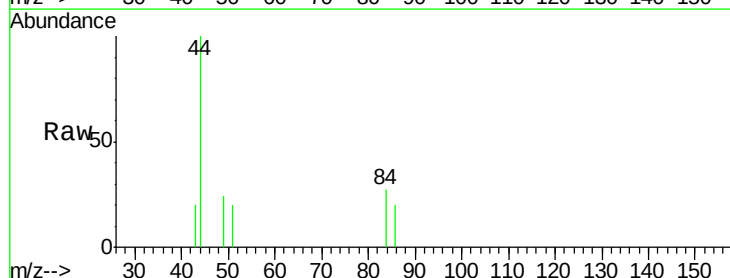
Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

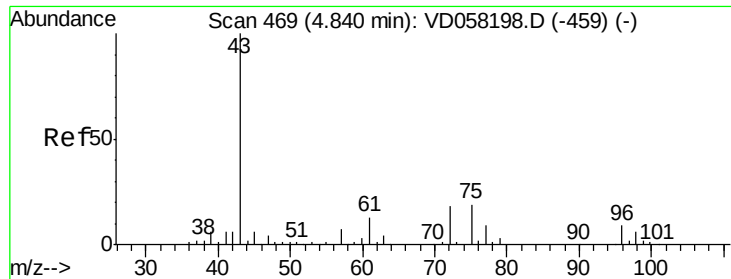
Tot Ion: 43 Resp: 1886
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.10 min Scan# 292
Delta R.T. 0.04 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

Tgt Ion: 84 Resp: 569
Ion Ratio Lower Upper
84 100
49 90.2 145.0 217.6#
51 73.3 42.9 64.3#
86 73.1 50.1 75.1





#25

2-Butanone

Concen: 7.457 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD058327.D

Acq: 23 Jun 2018 7:34

Instrument :

MSVOA_D

ClientSampleId :

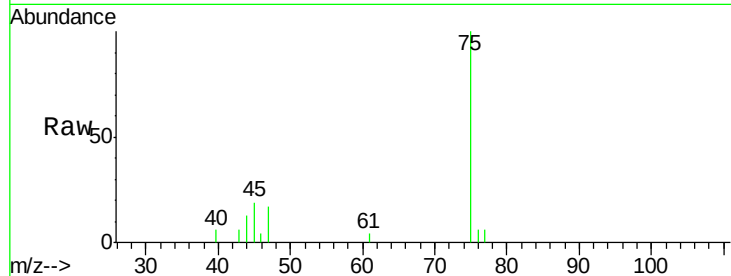
HC-SOIL-4

Tot Ion: 43 Resp: 1515

Ion Ratio Lower Upper

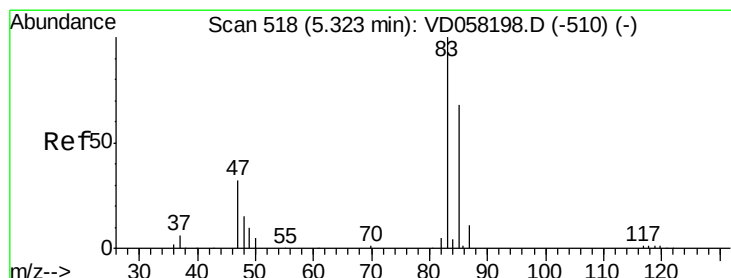
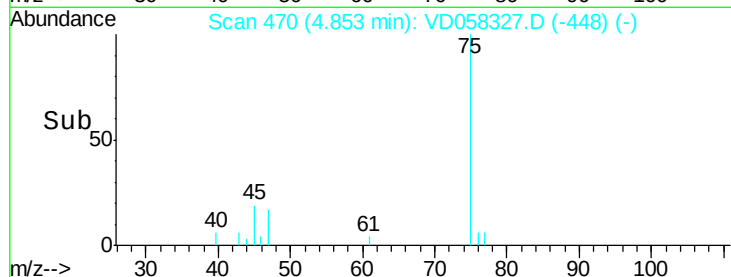
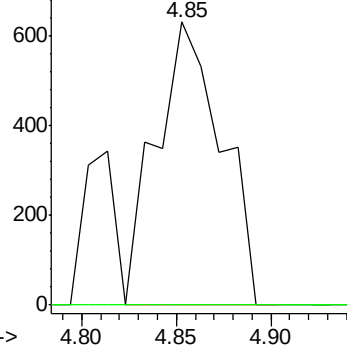
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#30

Chloroform

Concen: 1.267 ug/l

RT: 5.34 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD058327.D

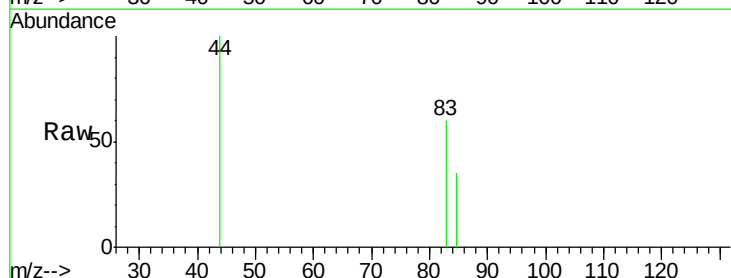
Acq: 23 Jun 2018 7:34

Tgt Ion: 83 Resp: 1545

Ion Ratio Lower Upper

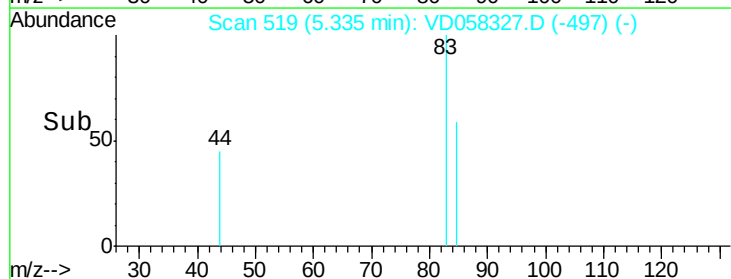
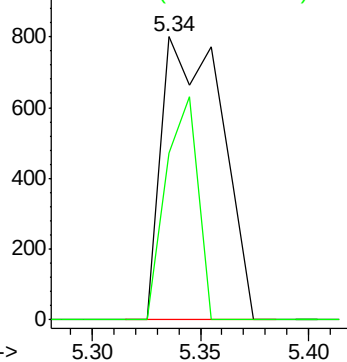
83 100

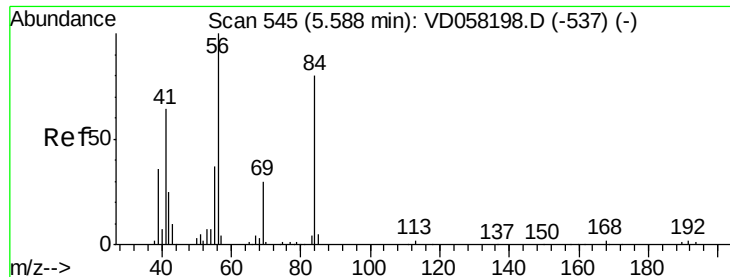
85 59.0 54.8 82.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

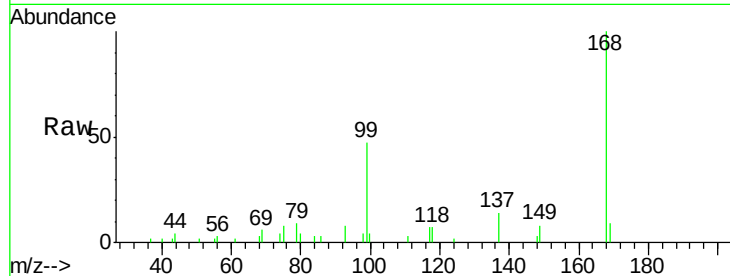




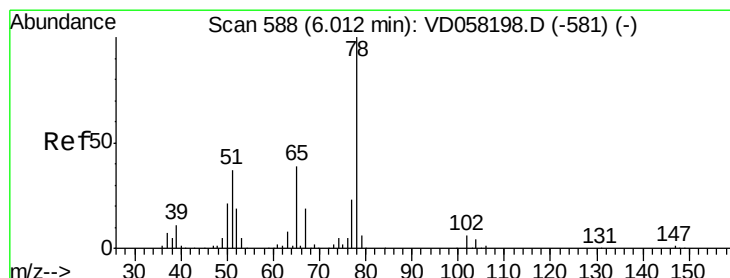
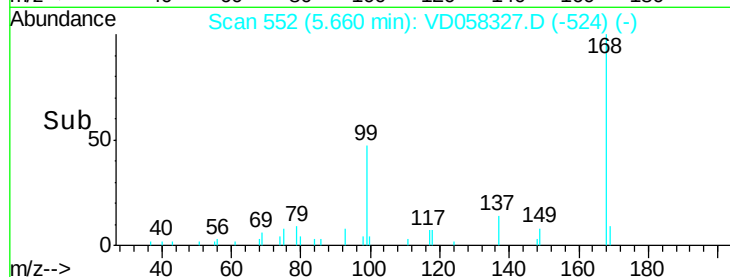
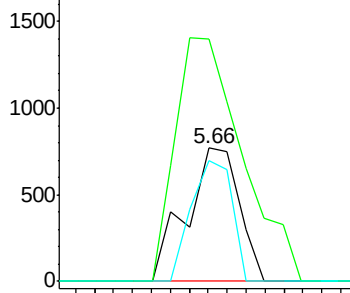
#31
Cyclohexane
Concen: Below Cal
RT: 5.66 min Scan# 552
Delta R.T. 0.07 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

Tot Ion	56	Resp	1494
Ion Ratio	Lower	Upper	
56	100		
69	181.5	23.6	35.4#
84	90.6	65.2	97.8

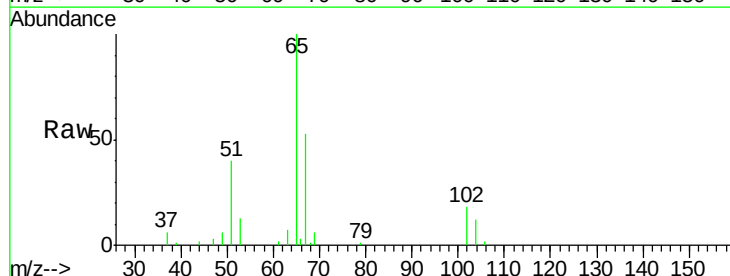


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

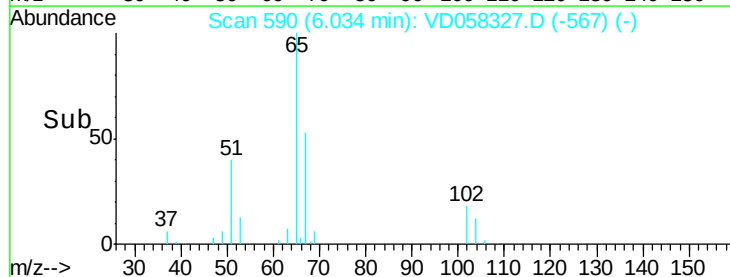
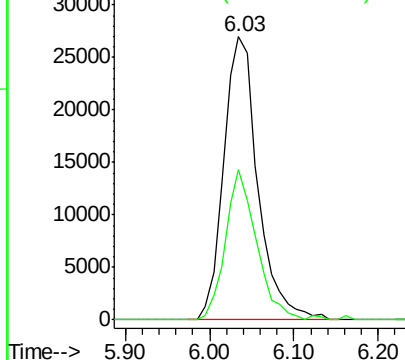


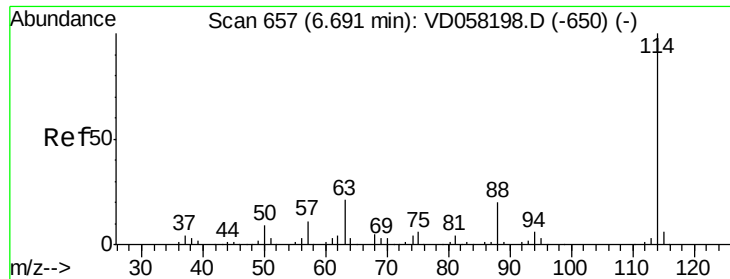
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.03 min Scan# 590
Delta R.T. 0.02 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

Tgt Ion	65	Resp	75916
Ion Ratio	Lower	Upper	
65	100		
67	52.9	0.0	97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

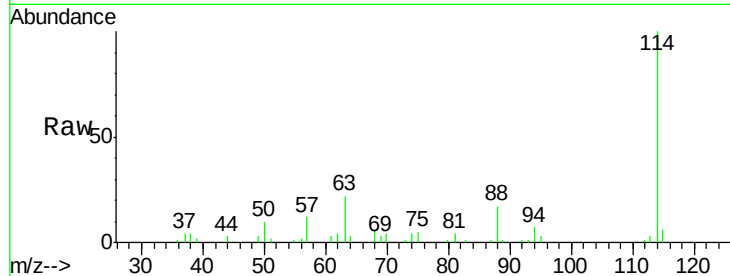




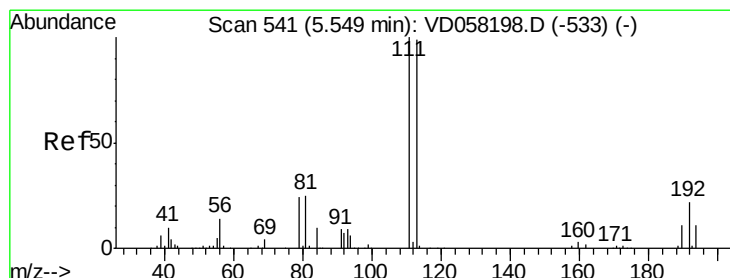
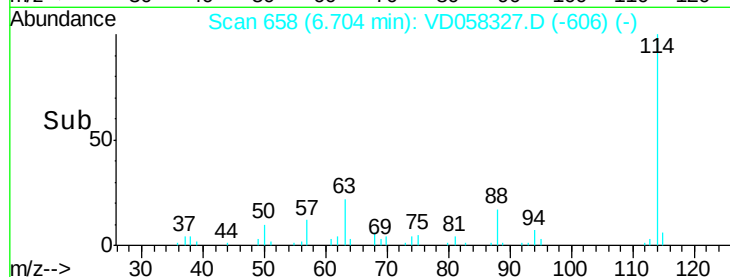
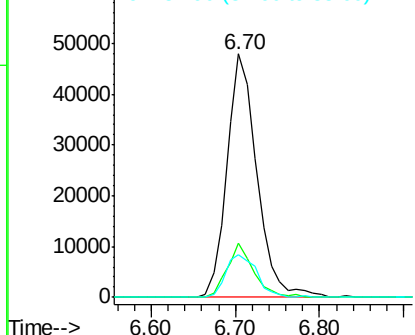
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058327.D
 Acq: 23 Jun 2018 7:34

Instrument :
 MSVOA_D
 ClientSampleId :
 HC-SOIL-4

Tot Ion:114 Resp: 118295
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 42.6
 88 17.3 0.0 40.6

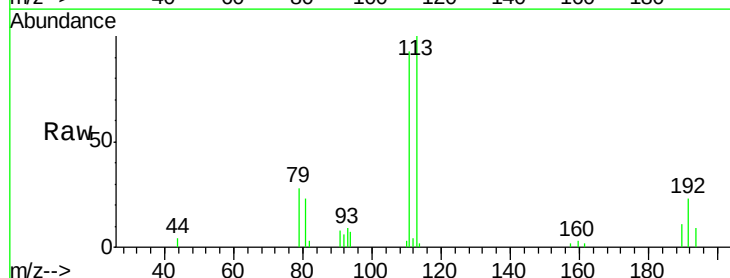


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

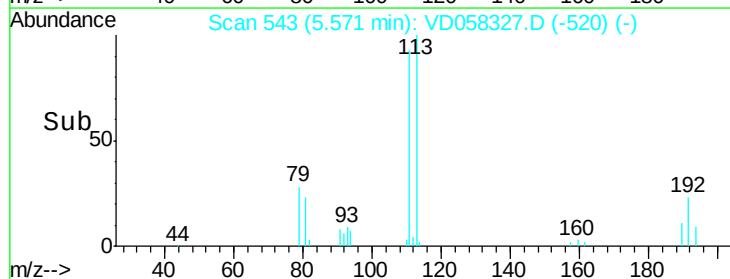
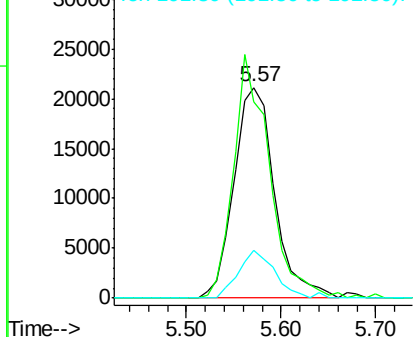


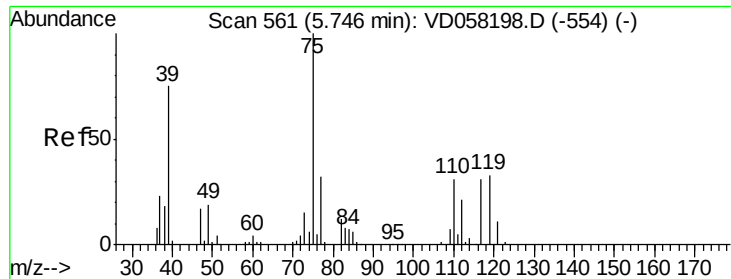
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: VD058327.D
 Acq: 23 Jun 2018 7:34

Tgt Ion:113 Resp: 62872
 Ion Ratio Lower Upper
 113 100
 111 93.4 80.6 121.0
 192 22.9 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

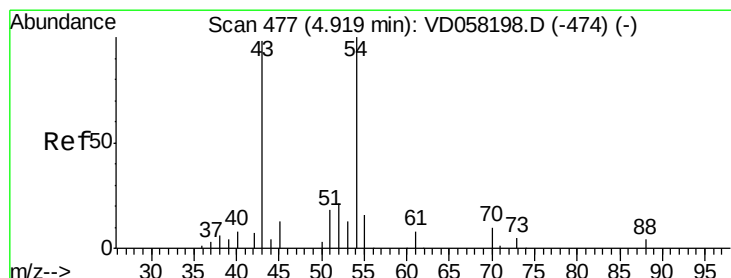
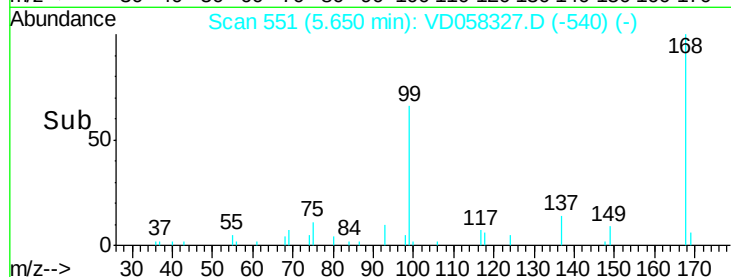
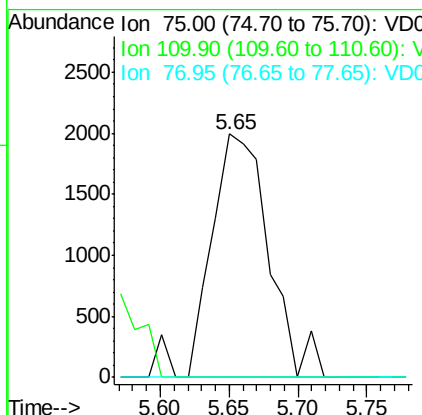
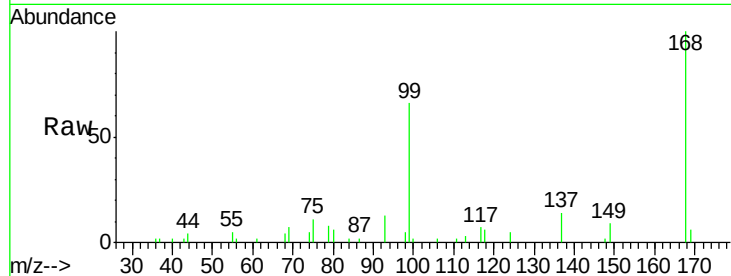




#36
 1,1-Dichloropropene
 Concen: 4.858 ug/l
 RT: 5.65 min Scan# 551
 Delta R.T. -0.10 min
 Lab File: VD058327.D
 Acq: 23 Jun 2018 7:34

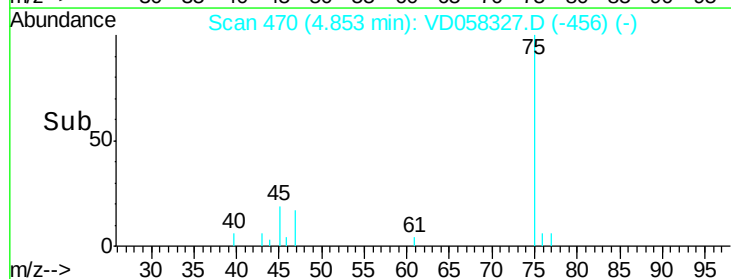
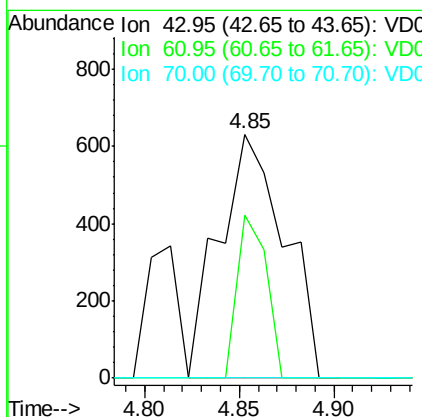
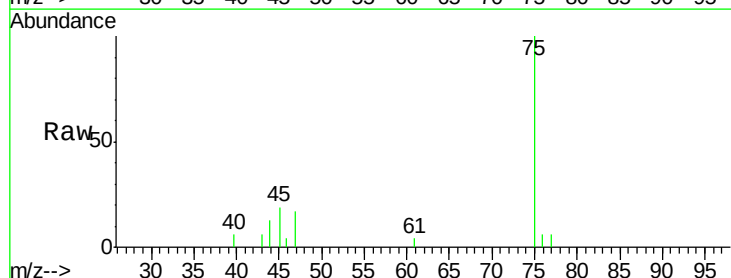
Instrument :
 MSVOA_D
 ClientSampleId :
 HC-SOIL-4

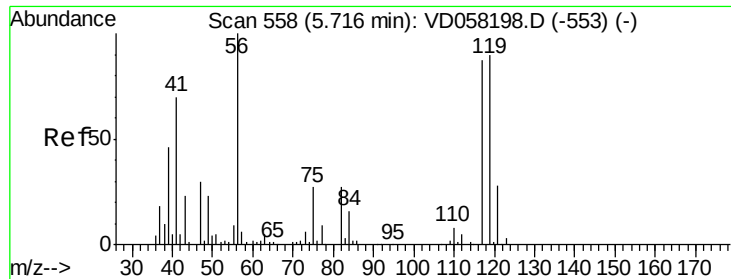
Tot Ion: 75 Resp: 5685
 Ion Ratio Lower Upper
 75 100
 110 0.0 15.4 46.4#
 77 0.0 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 2.272 ug/l
 RT: 4.85 min Scan# 470
 Delta R.T. -0.07 min
 Lab File: VD058327.D
 Acq: 23 Jun 2018 7:34

Tgt Ion: 43 Resp: 1515
 Ion Ratio Lower Upper
 43 100
 61 66.9 10.3 15.5#
 70 0.0 5.7 8.5#





#38

Carbon Tetrachloride

Concen: 4.547 ug/l

RT: 5.67 min Scan# 553

Delta R.T. -0.05 min

Lab File: VD058327.D

Acq: 23 Jun 2018 7:34

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-4

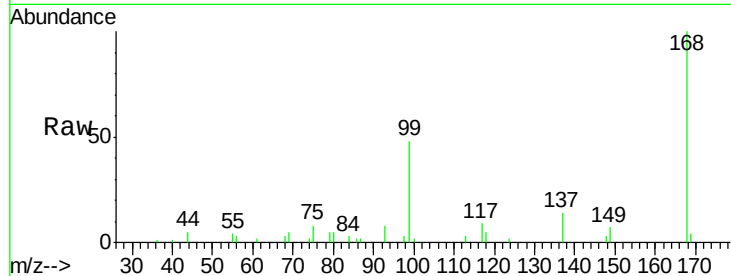
Tot Ion:117 Resp: 5287

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

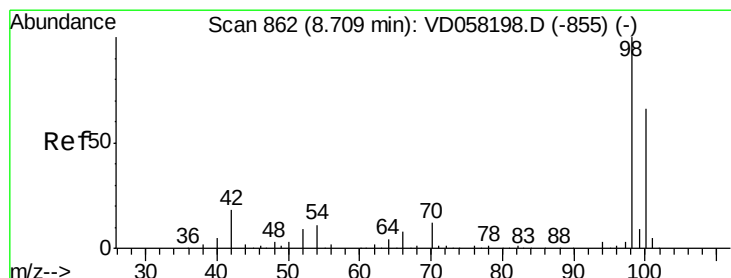
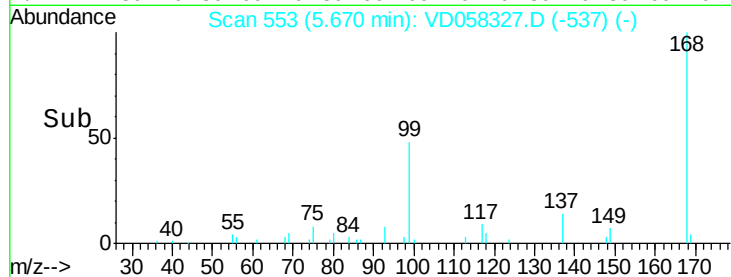
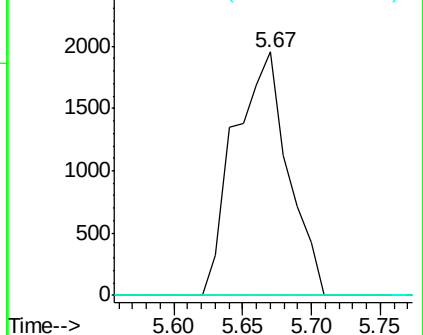
121 0.0 25.0 37.6#



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: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058327.D

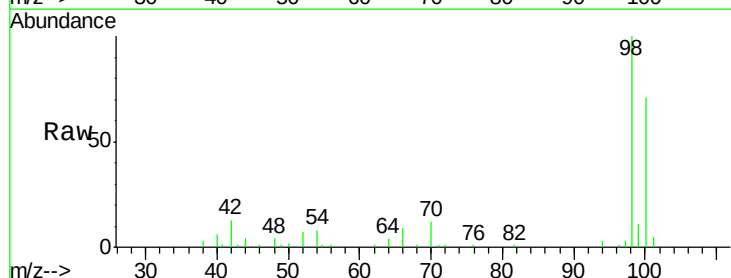
Acq: 23 Jun 2018 7:34

Tgt Ion: 98 Resp: 109630

Ion Ratio Lower Upper

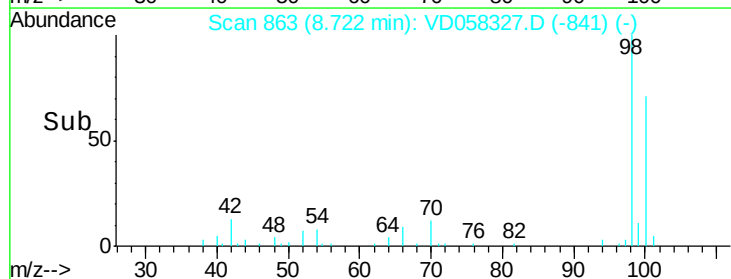
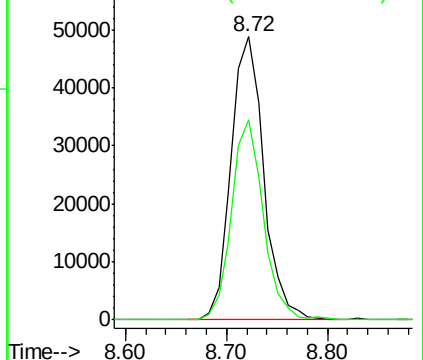
98 100

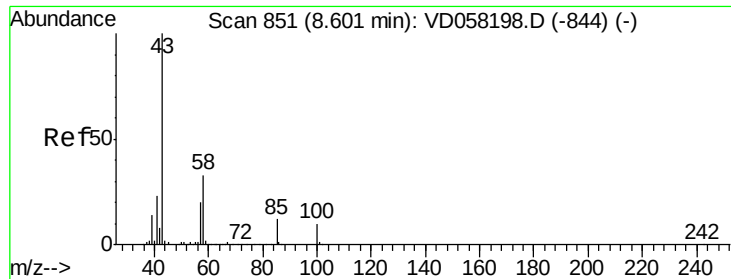
100 70.7 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.092 ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.11 min

Lab File: VD058327.D

Acq: 23 Jun 2018 7:34

Instrument :

MSVOA_D

ClientSampleId :

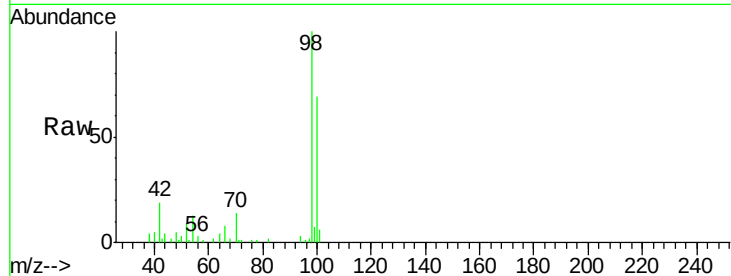
HC-SOIL-4

Tot Ion: 43 Resp: 633

Ion Ratio Lower Upper

43 100

58 65.2 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

8.71

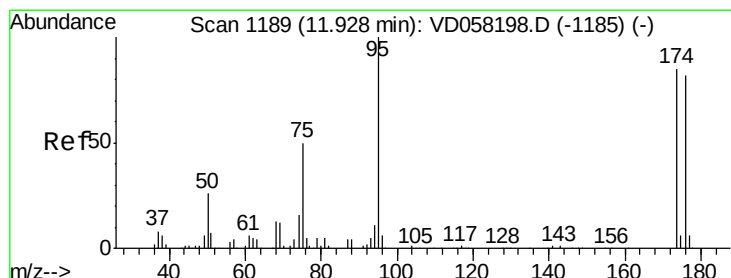
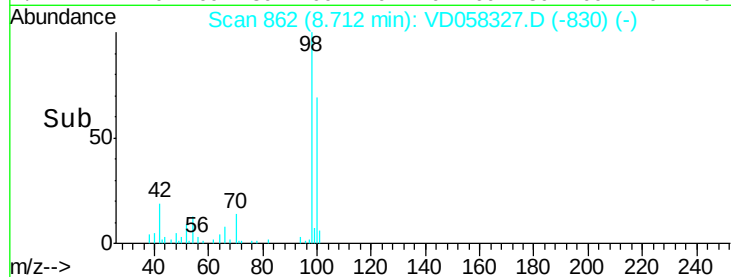
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058327.D

Acq: 23 Jun 2018 7:34

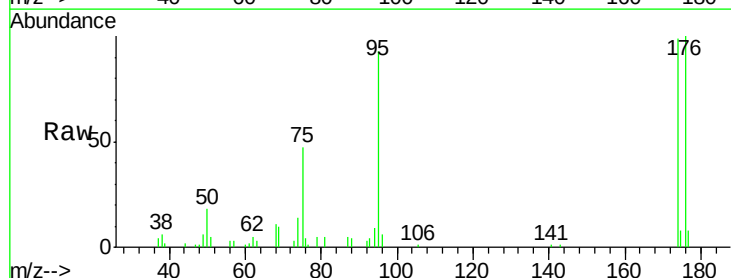
Tgt Ion: 95 Resp: 52229

Ion Ratio Lower Upper

95 100

174 106.9 0.0 170.2

176 107.9 0.0 164.6



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

11.94

40000

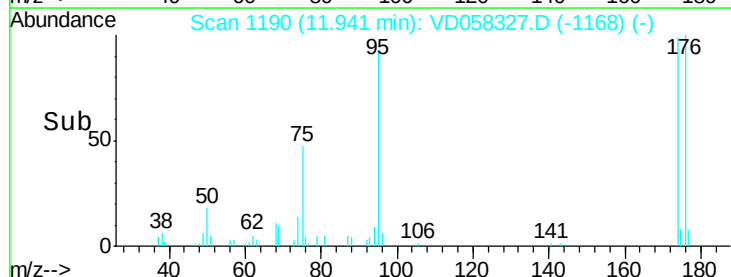
30000

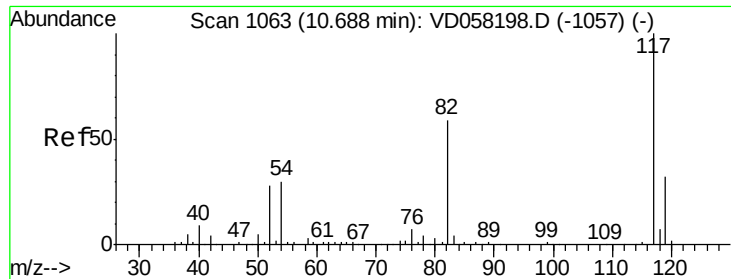
20000

10000

0

Time-->

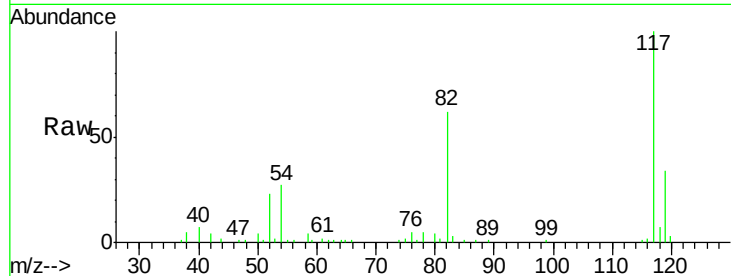




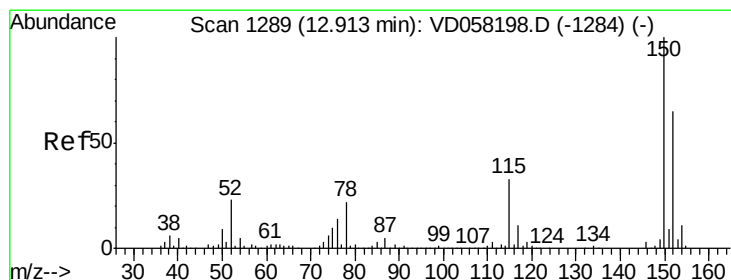
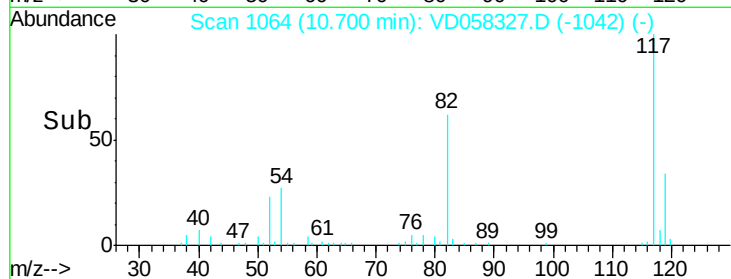
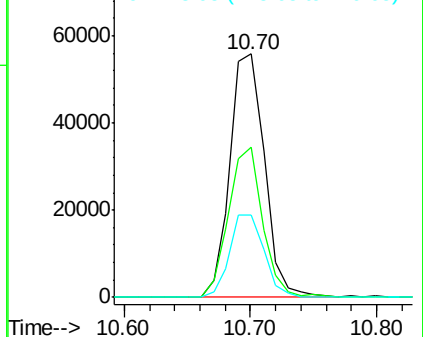
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-4

Tot Ion:117 Resp: 105832
Ion Ratio Lower Upper
117 100
82 61.9 47.0 70.6
119 33.9 25.3 37.9

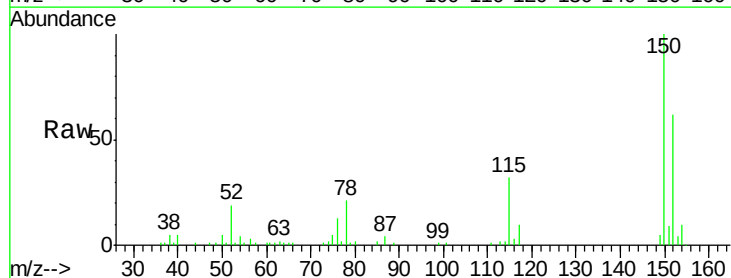


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

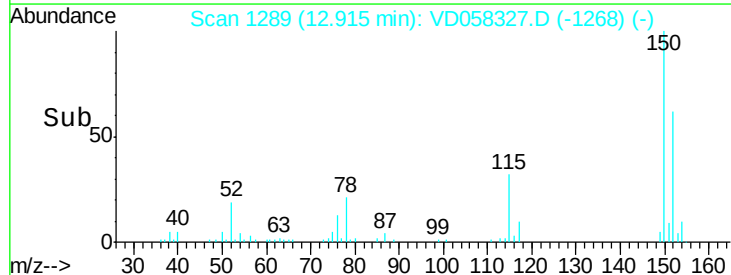
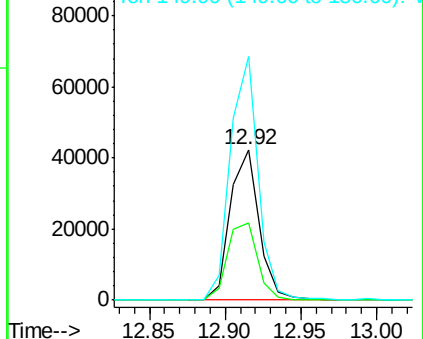


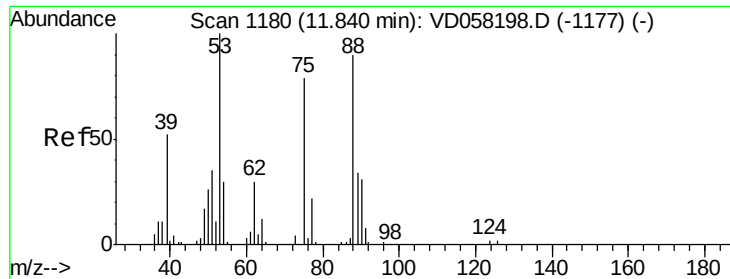
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.92 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058327.D
Acq: 23 Jun 2018 7:34

Tgt Ion:152 Resp: 56026
Ion Ratio Lower Upper
152 100
115 51.0 25.1 75.3
150 161.8 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: 135.020 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058327.D

Acq: 23 Jun 2018 7:34

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-4

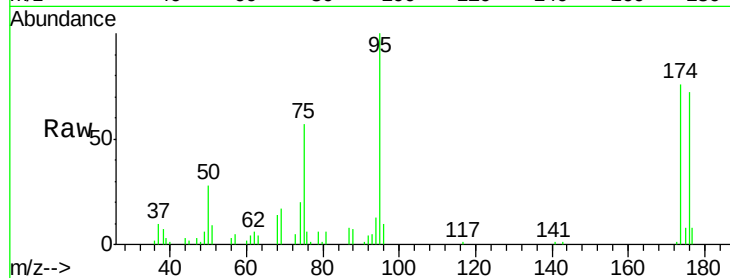
Tot Ion: 75 Resp: 26937

Ion Ratio Lower Upper

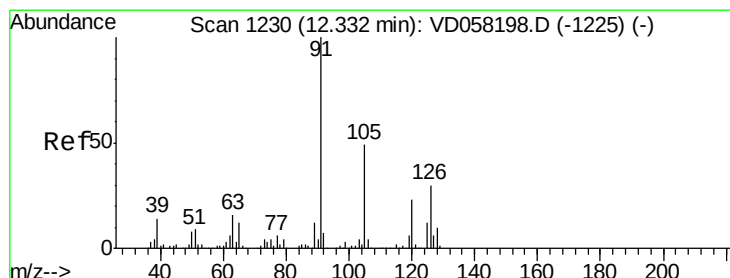
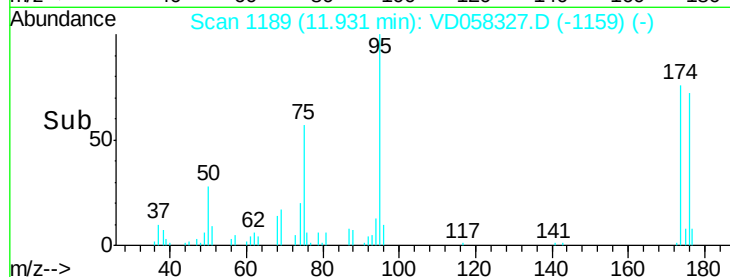
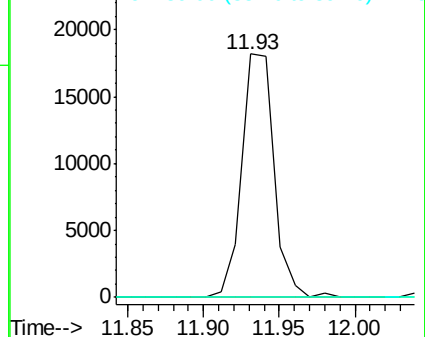
75 100

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: 12.32 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VD058327.D

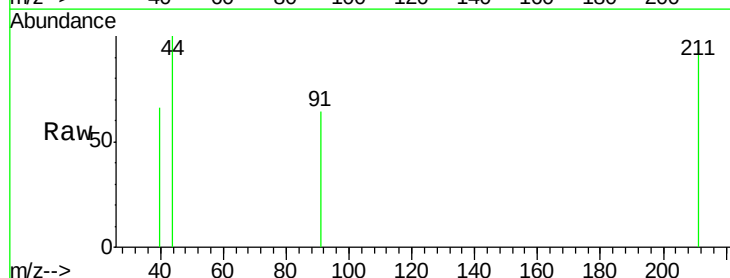
Acq: 23 Jun 2018 7:34

Tgt Ion: 91 Resp: 188

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

