

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058325.D
 Acq On : 23 Jun 2018 6:37
 Operator : VA/AP
 Sample : J3594-01RE
 Misc : 6.29g/5ml/MSVOA D/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HC-SOIL-1RE

Quant Time: Jun 25 00:55:16 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	1860	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	6.70	114	4702	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	3293	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	2118	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	1865	99.27	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	198.54%	
35) Dibromofluoromethane	5.54	113	973	25.42	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	50.84%	
50) Toluene-d8	8.71	98	3433	37.08	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	74.16%	
62) 4-Bromofluorobenzene	11.94	95	2381	62.95	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	125.90%	

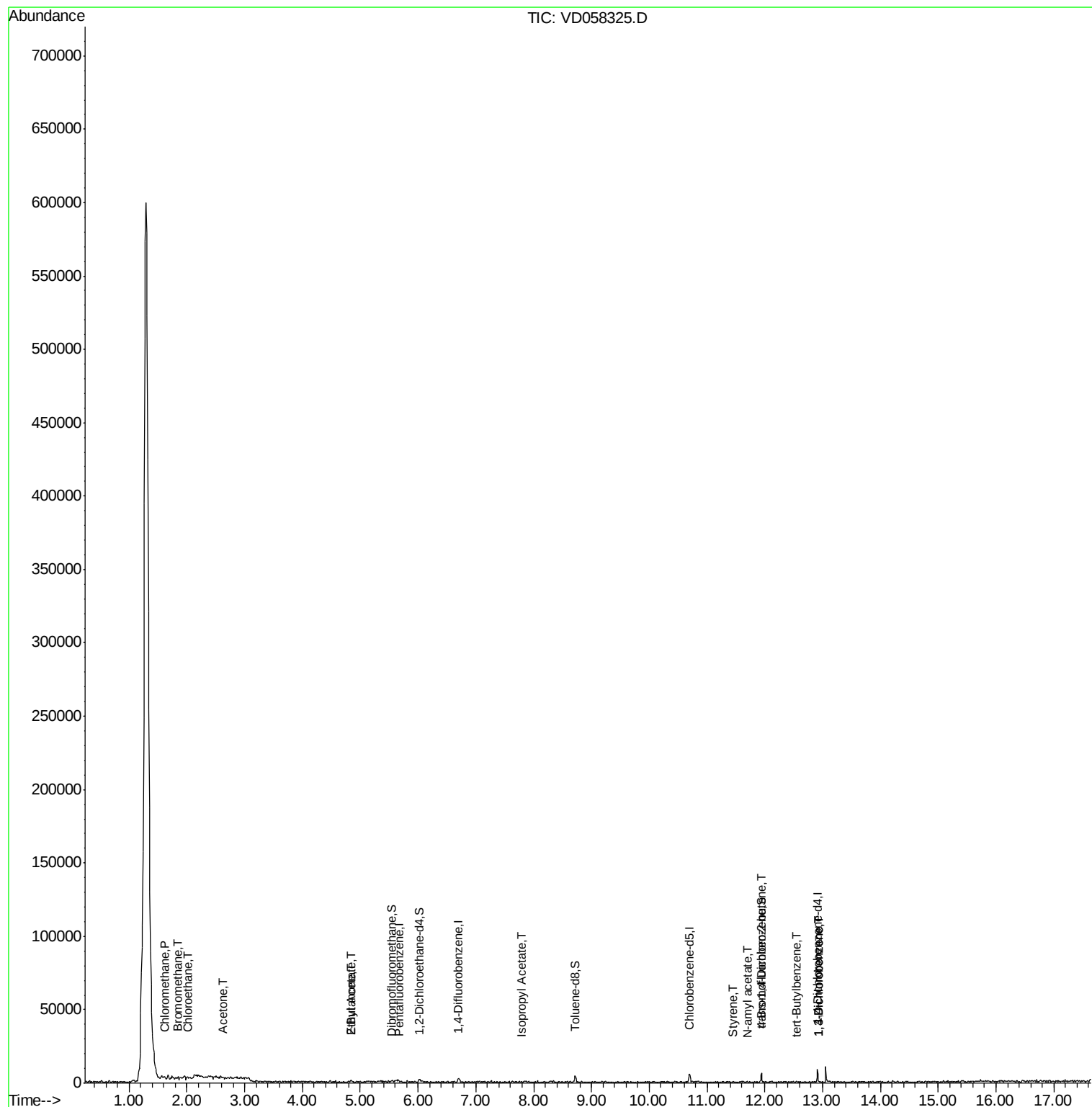
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.63	50	219	24.78	ug/l #	43
5) Bromomethane	1.84	94	204	66.37	ug/l #	3
6) Chloroethane	2.00	64	216	62.78	ug/l #	41
16) Acetone	2.62	43	1226	477.17	ug/l #	62
25) 2-Butanone	4.84	43	215	38.39	ug/l #	60
37) Ethyl Acetate	4.84	43	215	8.11	ug/l #	72
43) Isopropyl Acetate	7.80	43	185	5.24	ug/l #	48
70) Styrene	11.44	104	186	3.15	ug/l #	28
74) N-amyl acetate	11.72	43	206	4.21	ug/l #	53
81) trans-1,4-Dichloro-2-buten	11.93	75	587	77.83	ug/l #	1
83) tert-Butylbenzene	12.56	119	183	1.61	ug/l #	20
87) 1,3-Dichlorobenzene	12.94	146	229	3.47	ug/l #	25
88) 1,4-Dichlorobenzene	12.94	146	229	3.56	ug/l #	25

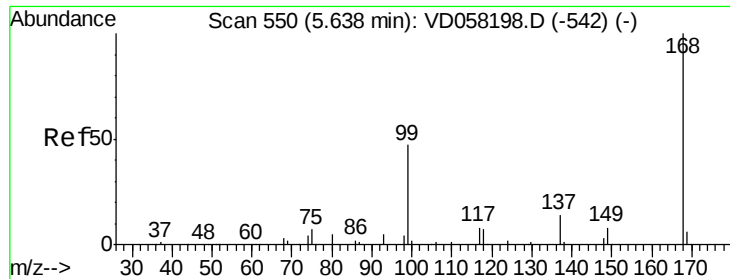
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.04 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

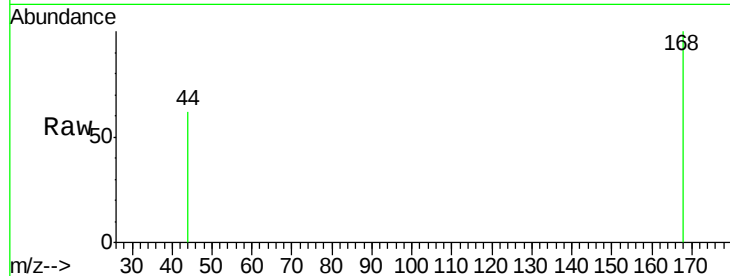
HC-SOIL-1RE

Tot Ion:168 Resp: 1860

Ion Ratio Lower Upper

168 100

99 0.0 41.1 61.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.67

800

600

400

200

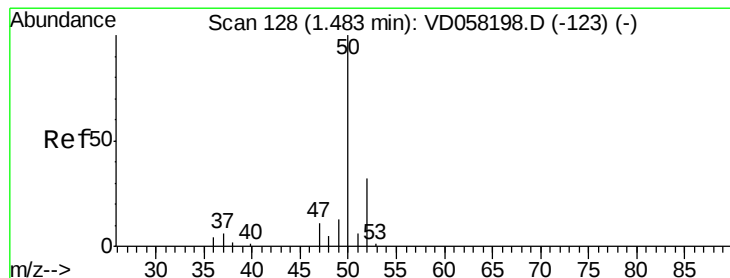
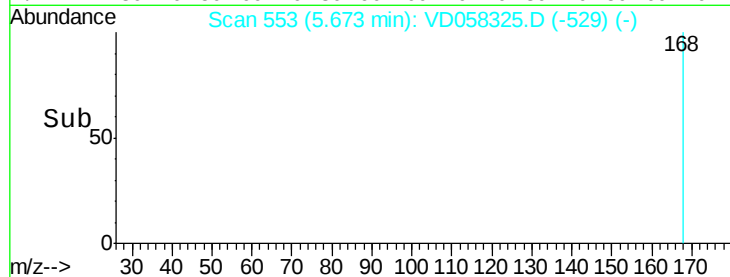
0

5.60

5.65

5.70

Time-->



#3

Chloromethane

Concen: 24.78 ug/l

RT: 1.63 min Scan# 142

Delta R.T. 0.14 min

Lab File: VD058325.D

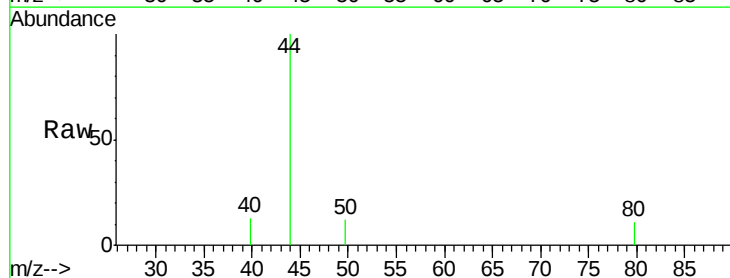
Acq: 23 Jun 2018 6:37

Tgt Ion: 50 Resp: 219

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

1.63

400

300

200

100

0

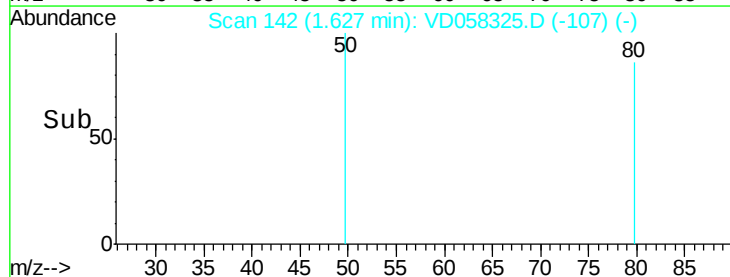
1.60

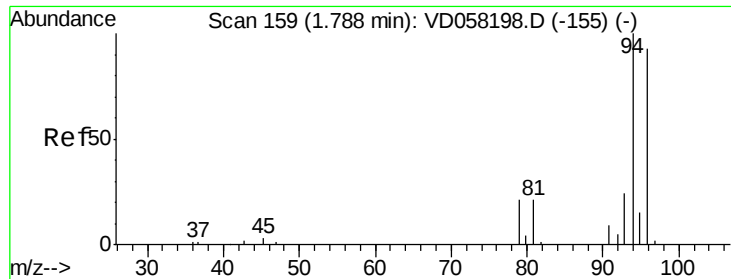
1.62

1.64

1.66

Time-->

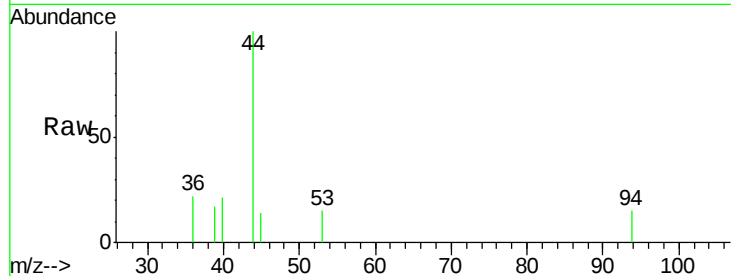




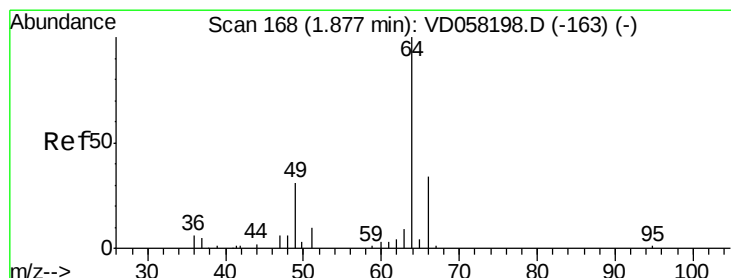
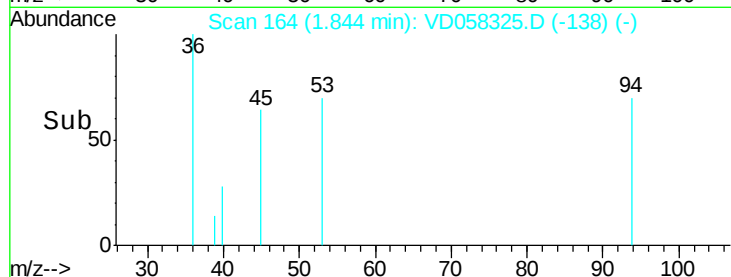
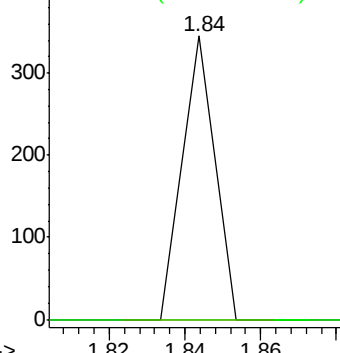
#5
Bromomethane
Concen: 66.37 ug/l
RT: 1.84 min Scan# 164
Delta R.T. 0.06 min
Lab File: VD058325.D
Acq: 23 Jun 2018 6:37

Instrument :
MSVOA_D
ClientSampleId :
HC-SOIL-1RE

Tot Ion: 94 Resp: 204
Ion Ratio Lower Upper
94 100
96 0.0 74.2 111.2#

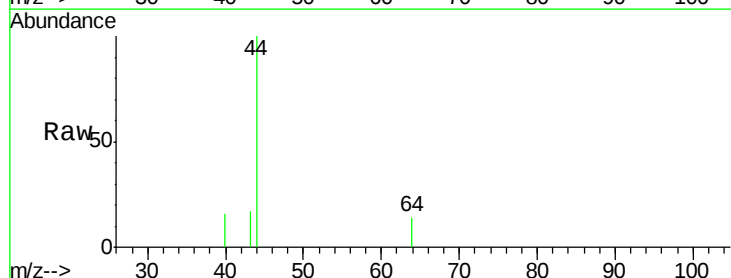


Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC

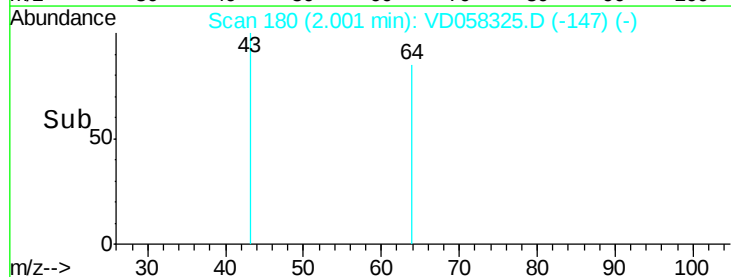
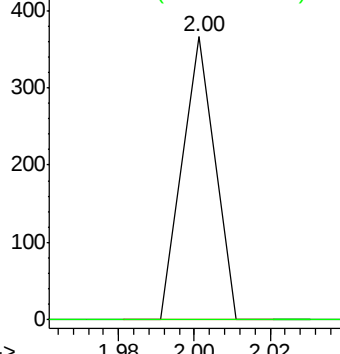


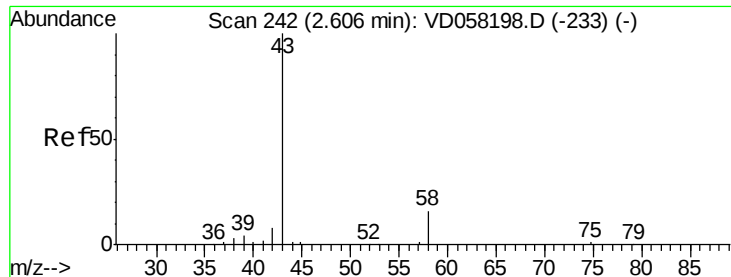
#6
Chloroethane
Concen: 62.78 ug/l
RT: 2.00 min Scan# 180
Delta R.T. 0.12 min
Lab File: VD058325.D
Acq: 23 Jun 2018 6:37

Tgt Ion: 64 Resp: 216
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





#16

Acetone

Concen: 477.17 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

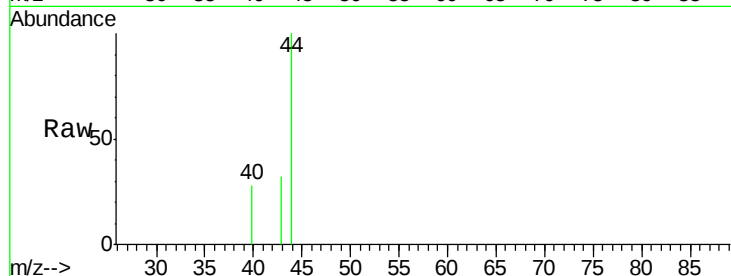
HC-SOIL-1RE

Tot Ion: 43 Resp: 1226

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

2.62

800

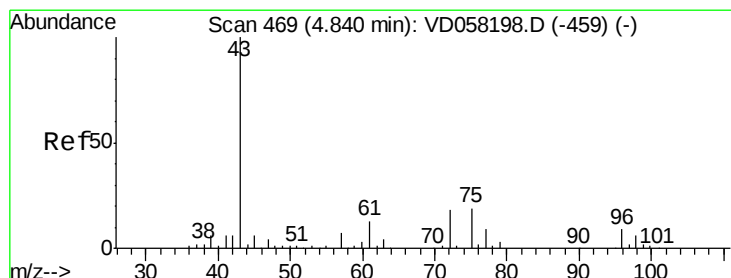
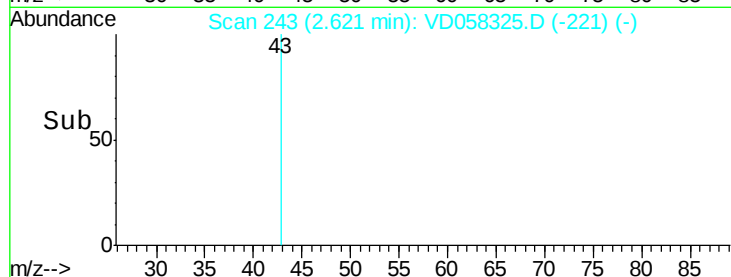
600

400

200

0

Time--> 2.55 2.60 2.65



#25

2-Butanone

Concen: 38.39 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.00 min

Lab File: VD058325.D

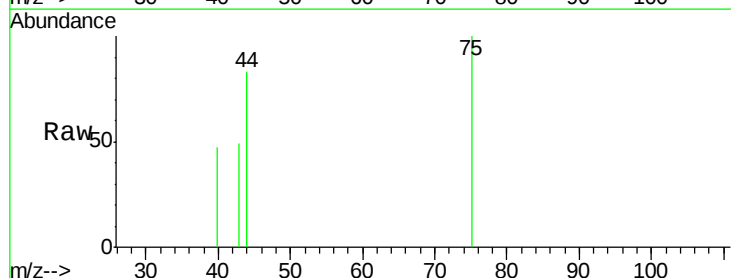
Acq: 23 Jun 2018 6:37

Tgt Ion: 43 Resp: 215

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

4.84

400

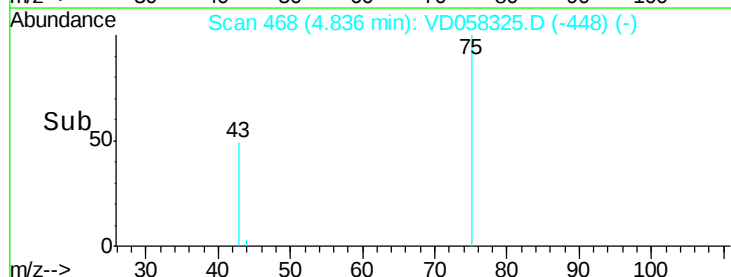
300

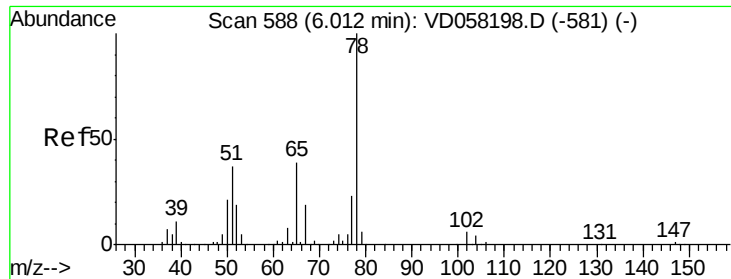
200

100

0

Time--> 4.80 4.82 4.84 4.86

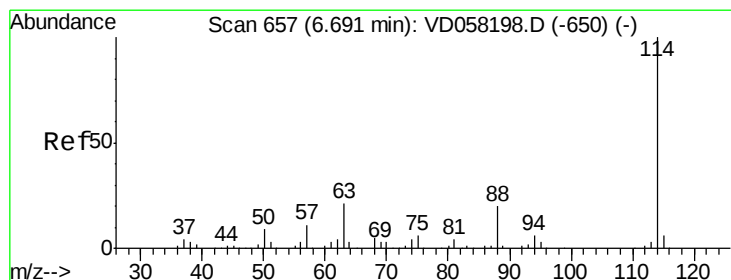
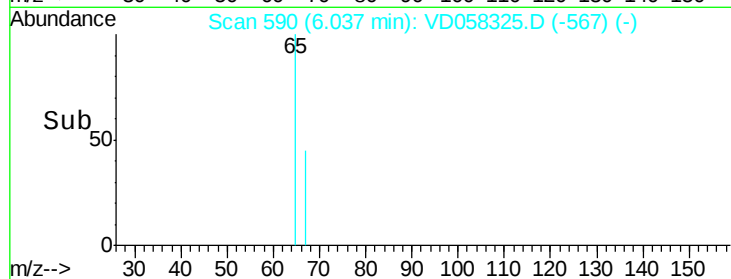
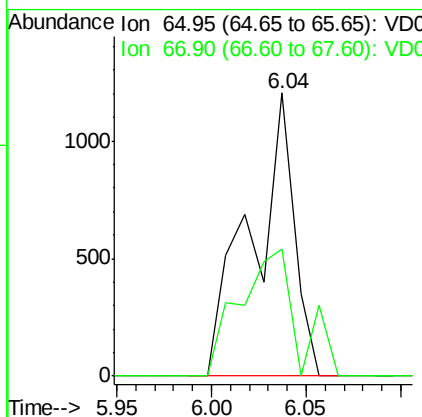
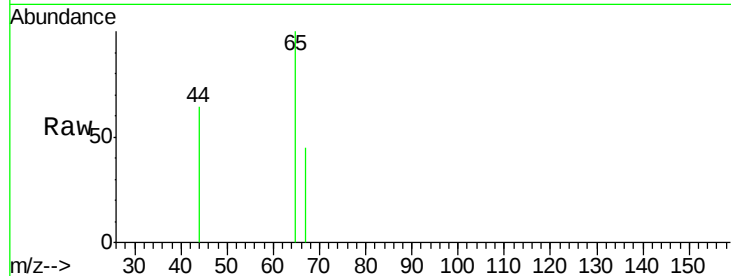




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.04 min Scan# 590
 Delta R.T. 0.03 min
 Lab File: VD058325.D
 Acq: 23 Jun 2018 6:37

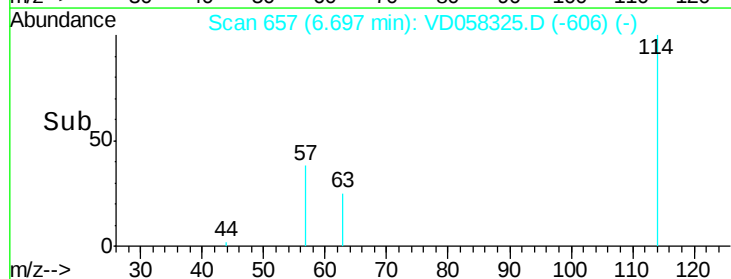
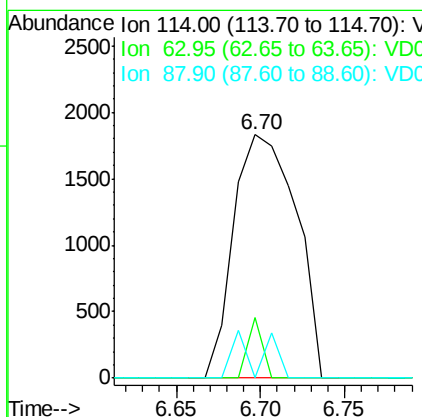
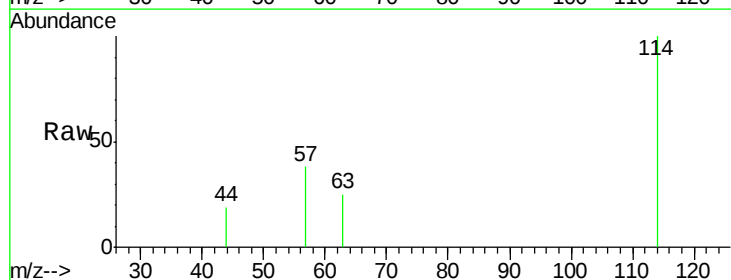
Instrument :
 MSVOA_D
 ClientSampleId :
 HC-SOIL-1RE

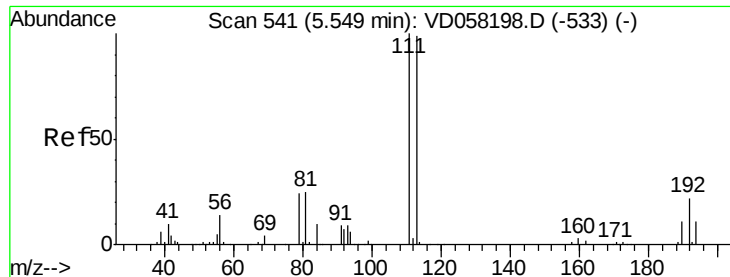
Tot Ion: 65 Resp: 1865
 Ion Ratio Lower Upper
 65 100
 67 45.1 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.70 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VD058325.D
 Acq: 23 Jun 2018 6:37

Tgt Ion: 114 Resp: 4702
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 42.6
 88 0.0 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.54 min Scan# 539

Delta R.T. -0.01 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-1RE

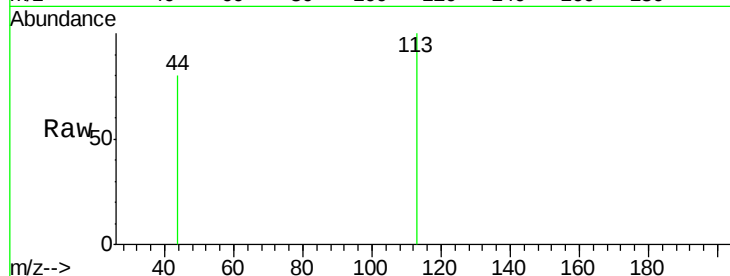
Tot Ion:113 Resp: 973

Ion Ratio Lower Upper

113 100

111 0.0 80.6 121.0#

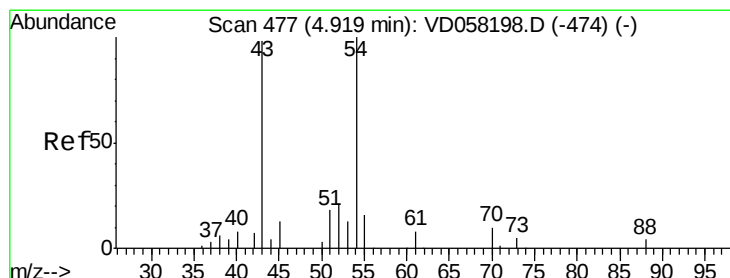
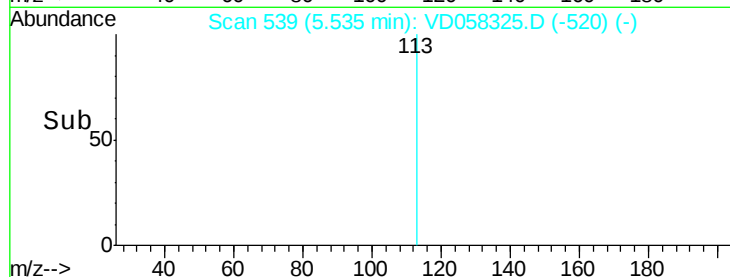
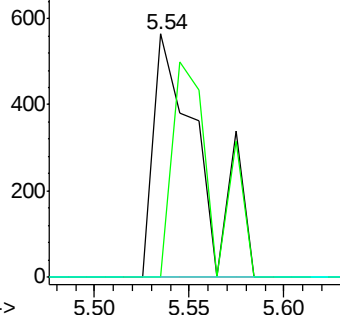
192 0.0 17.8 26.6#



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



#37

Ethyl Acetate

Concen: 8.11 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.08 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

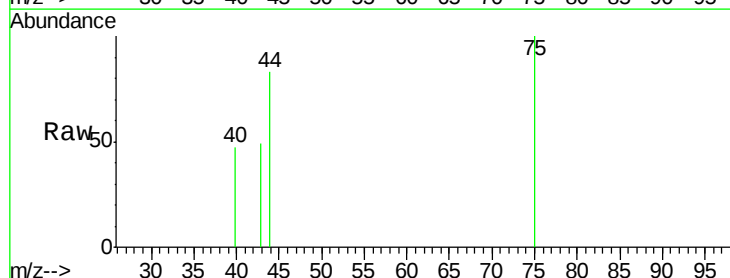
Tgt Ion: 43 Resp: 215

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

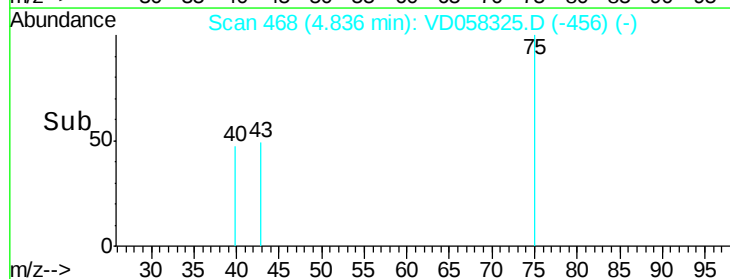
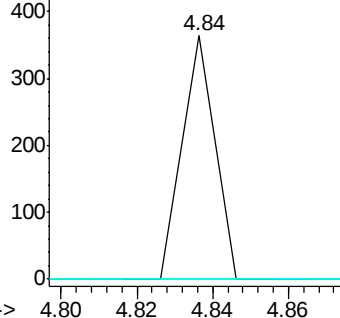
70 0.0 5.7 8.5#

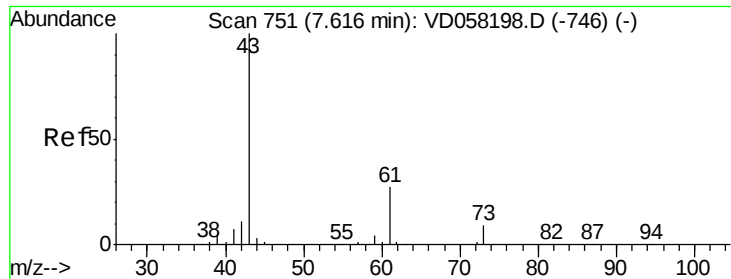


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 70.00 (69.70 to 70.70): V





#43

Isopropyl Acetate

Concen: 5.24 ug/l

RT: 7.80 min Scan# 769

Delta R.T. 0.18 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-1RE

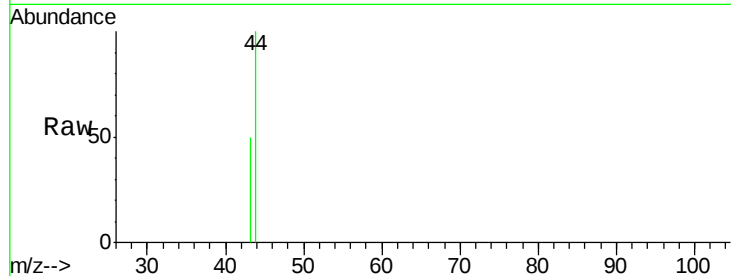
Tot Ion: 43 Resp: 185

Ion Ratio Lower Upper

43 100

61 0.0 21.8 32.6#

87 0.0 0.3 0.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

7.80

300

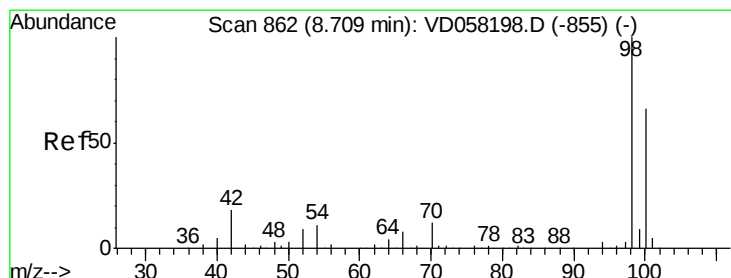
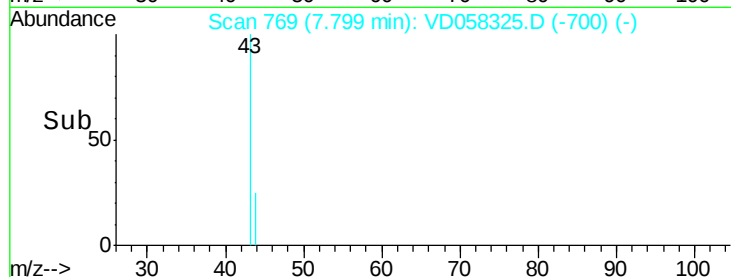
200

100

0

7.76 7.78 7.80 7.82

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.01 min

Lab File: VD058325.D

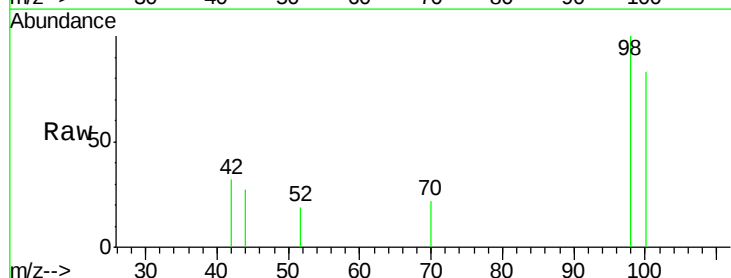
Acq: 23 Jun 2018 6:37

Tgt Ion: 98 Resp: 3433

Ion Ratio Lower Upper

98 100

100 83.1 53.6 80.4#



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

8.71

2000

1500

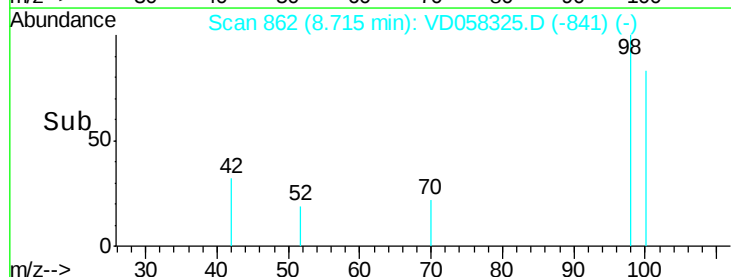
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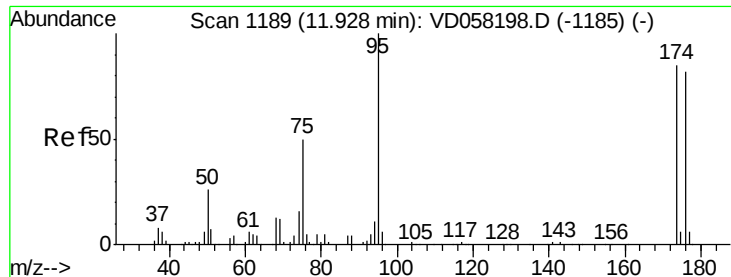
500

0

8.65 8.70 8.75

Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.02 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-1RE

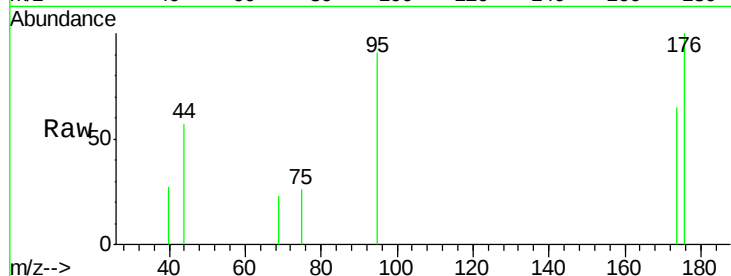
Tot Ion: 95 Resp: 2381

Ion Ratio Lower Upper

95 100

174 71.8 0.0 170.2

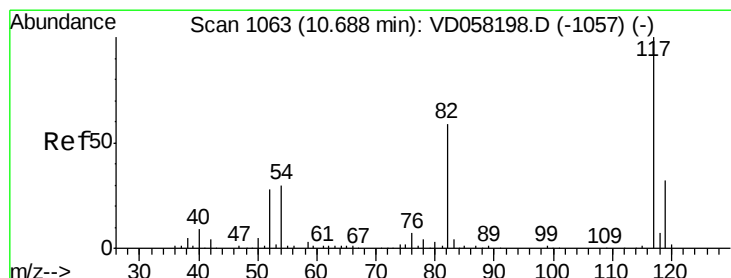
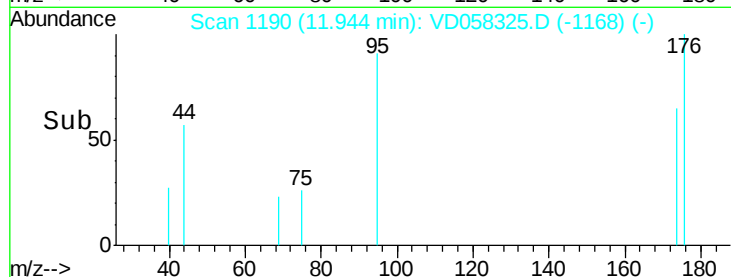
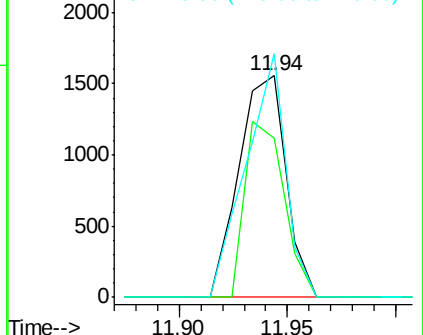
176 109.9 0.0 164.6



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: 50.00 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. 0.01 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

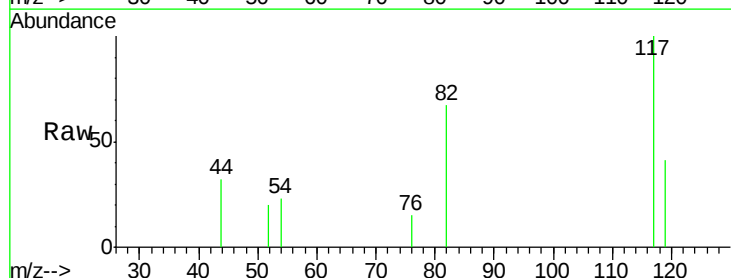
Tgt Ion: 117 Resp: 3293

Ion Ratio Lower Upper

117 100

82 66.6 47.0 70.6

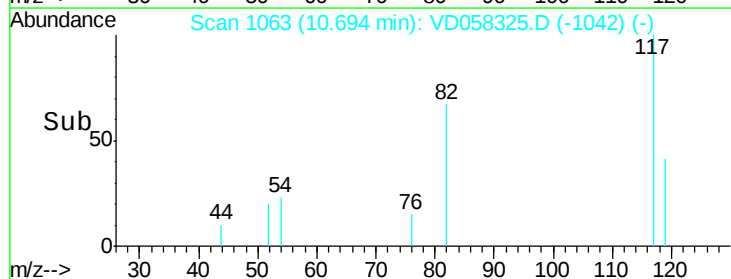
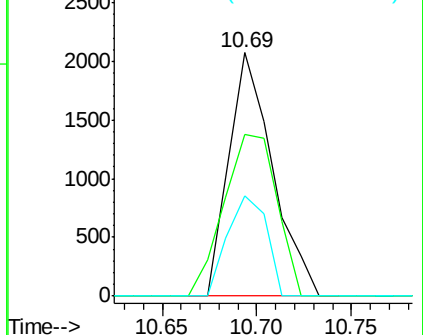
119 41.3 25.3 37.9#

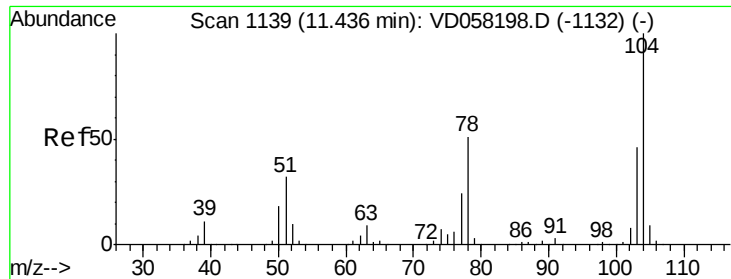


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#70

Stvrene

Concen: 3.15 ug/l

RT: 11.44 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-1RE

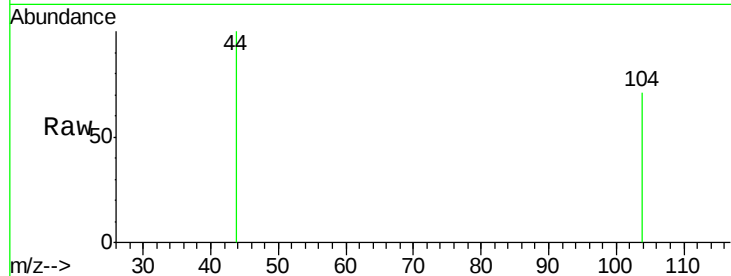
Tot Ion:104 Resp: 186

Ion Ratio Lower Upper

104 100

78 0.0 40.8 61.2#

103 0.0 37.0 55.6#



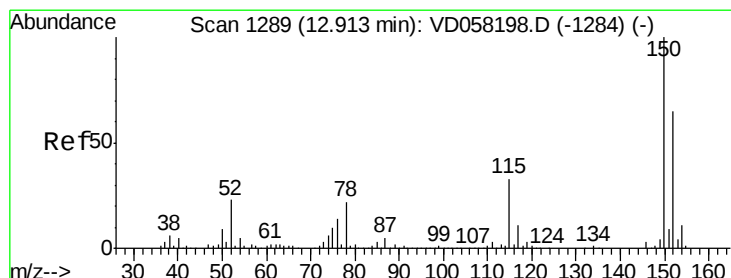
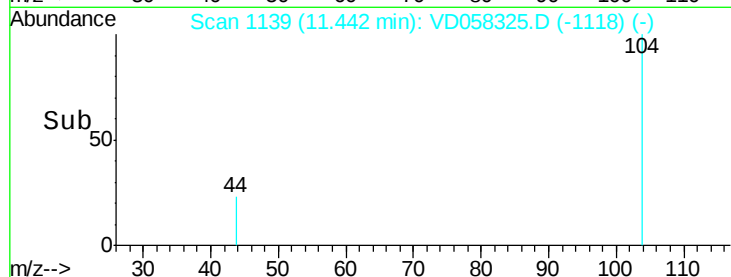
Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): V

Ion 103.05 (102.75 to 103.75): V

11.44

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

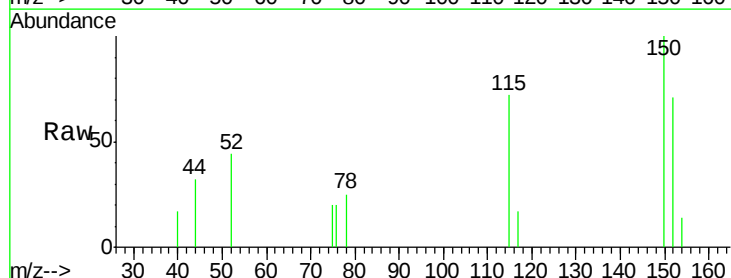
Tgt Ion:152 Resp: 2118

Ion Ratio Lower Upper

152 100

115 101.1 25.1 75.3#

150 140.7 0.0 308.8



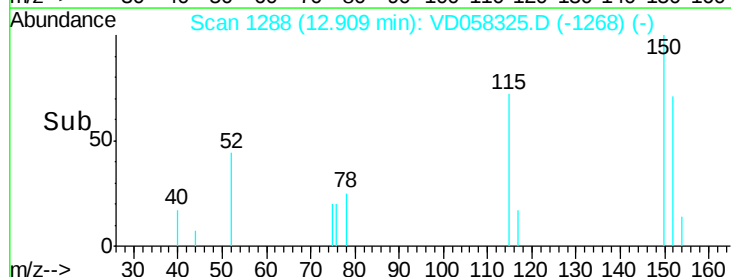
Abundance Ion 151.90 (151.60 to 152.60): V

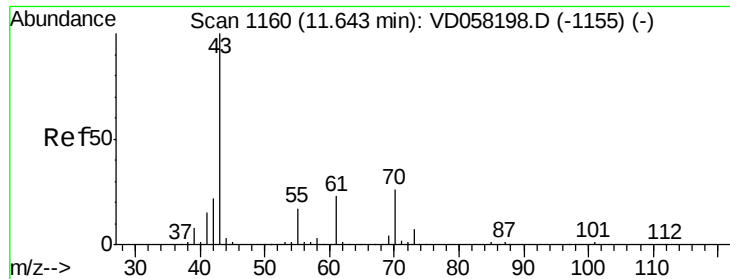
Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V

12.91

Time-->





#74

N-amvl acetate

Concen: 4.21 ug/l

RT: 11.72 min Scan# 1167

Delta R.T. 0.07 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

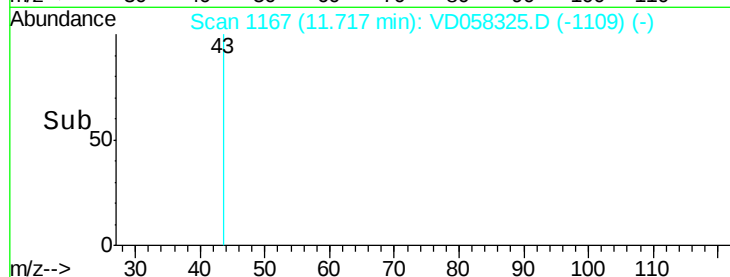
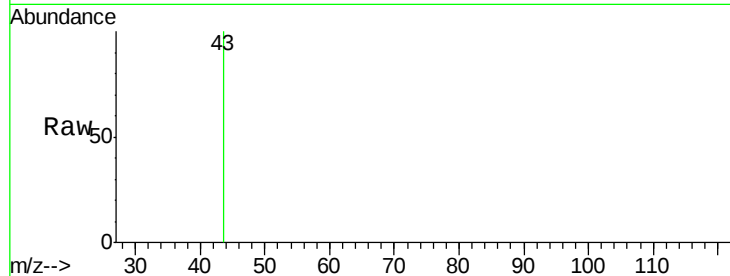
MSVOA_D

ClientSampleId :

HC-SOIL-1RE

Tot Ion: 43 Resp: 206

Ion	Ratio	Lower	Upper
43	100		
70	0.0	20.9	31.3#
55	0.0	13.5	20.3#
61	0.0	18.2	27.2#

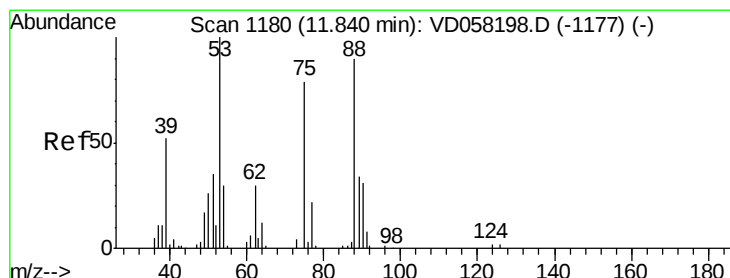
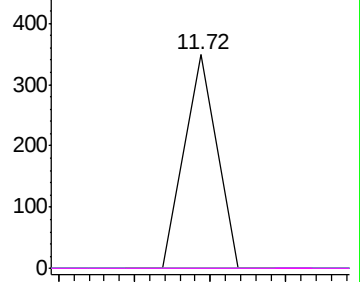


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 77.83 ug/l

RT: 11.93 min Scan# 1189

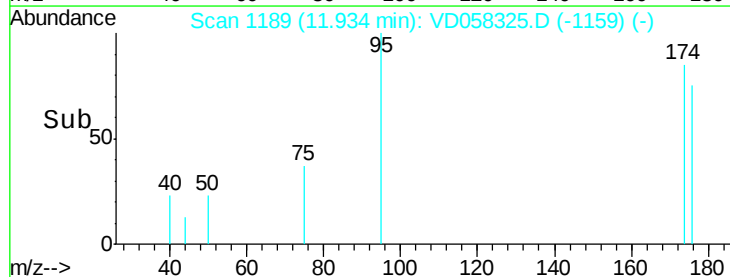
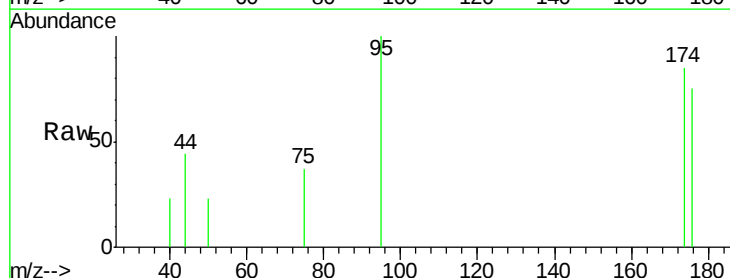
Delta R.T. 0.09 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Tgt Ion: 75 Resp: 587

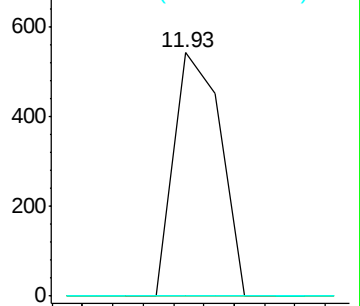
Ion	Ratio	Lower	Upper
75	100		
53	0.0	100.8	151.2#
89	0.0	34.6	52.0#

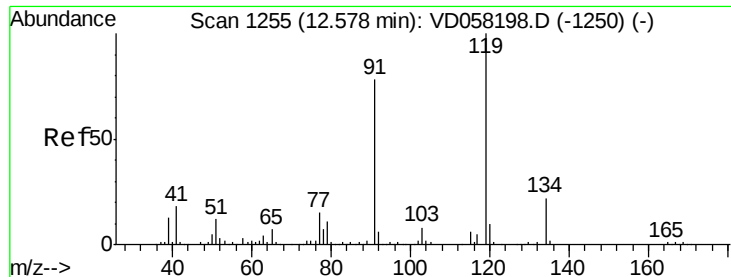


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#83

tert-Butylbenzene

Concen: 1.61 ug/l

RT: 12.56 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-1RE

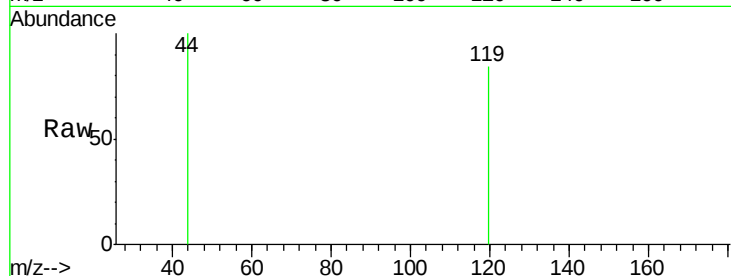
Tot Ion:119 Resp: 183

Ion Ratio Lower Upper

119 100

91 0.0 38.9 116.6#

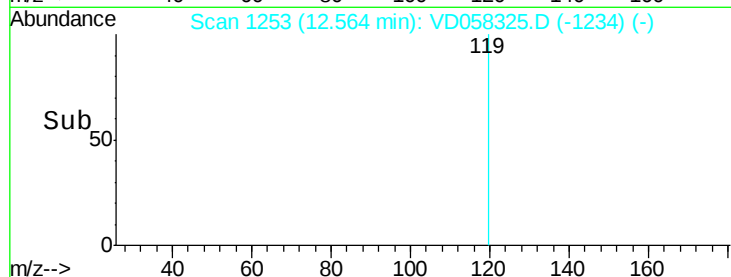
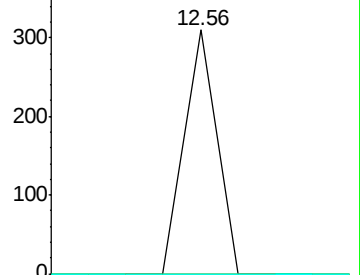
134 0.0 11.2 33.5#



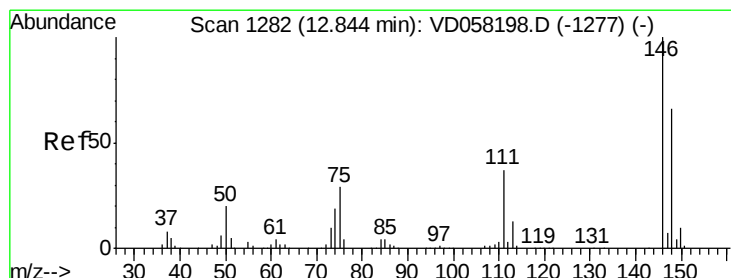
Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#87

1,3-Dichlorobenzene

Concen: 3.47 ug/l

RT: 12.94 min Scan# 1291

Delta R.T. 0.09 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

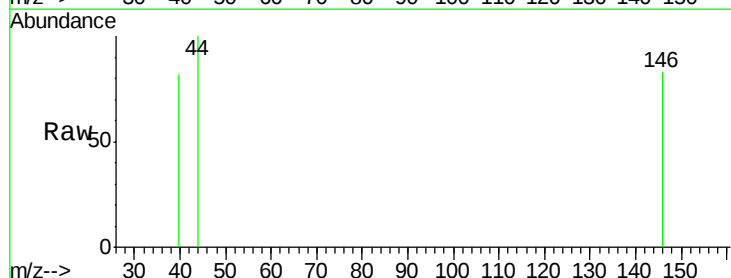
Tgt Ion:146 Resp: 229

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.0#

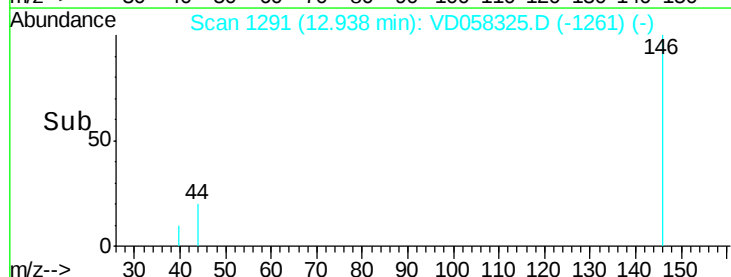
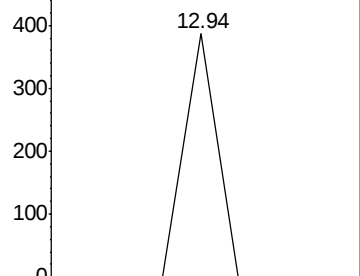
148 0.0 32.8 98.4#



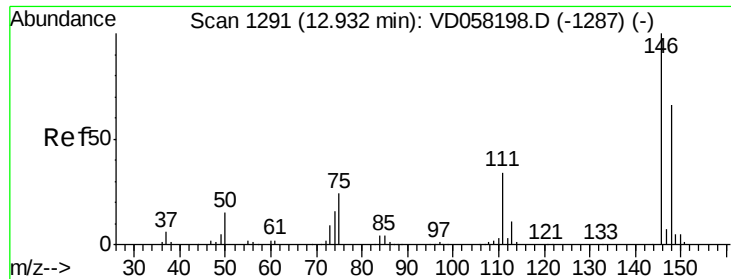
Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->



#88

1,4-Dichlorobenzene

Concen: 3.56 ug/l

RT: 12.94 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VD058325.D

Acq: 23 Jun 2018 6:37

Instrument :

MSVOA_D

ClientSampleId :

HC-SOIL-1RE

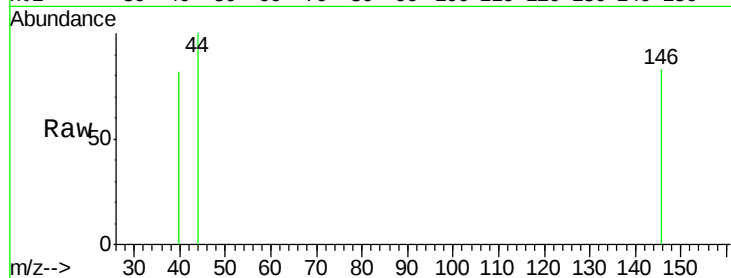
Tot Ion:146 Resp: 229

Ion Ratio Lower Upper

146 100

111 0.0 17.2 51.5#

148 0.0 33.1 99.3#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

