

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121018\
 Data File : VD060522.D
 Acq On : 10 Dec 2018 13:57
 Operator : VA/AP
 Sample : J6290-01
 Misc : 5.21g/5ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL

Quant Time: Dec 11 06:47:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	29783	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.44	114	50160	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	46148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	23808	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	14992	71.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	142.04%	
35) Dibromofluoromethane	6.32	113	15802	42.89	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	85.78%	
50) Toluene-d8	9.46	98	38845	36.43	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	72.86%	
62) 4-Bromofluorobenzene	12.43	95	17190	45.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	90.12%	

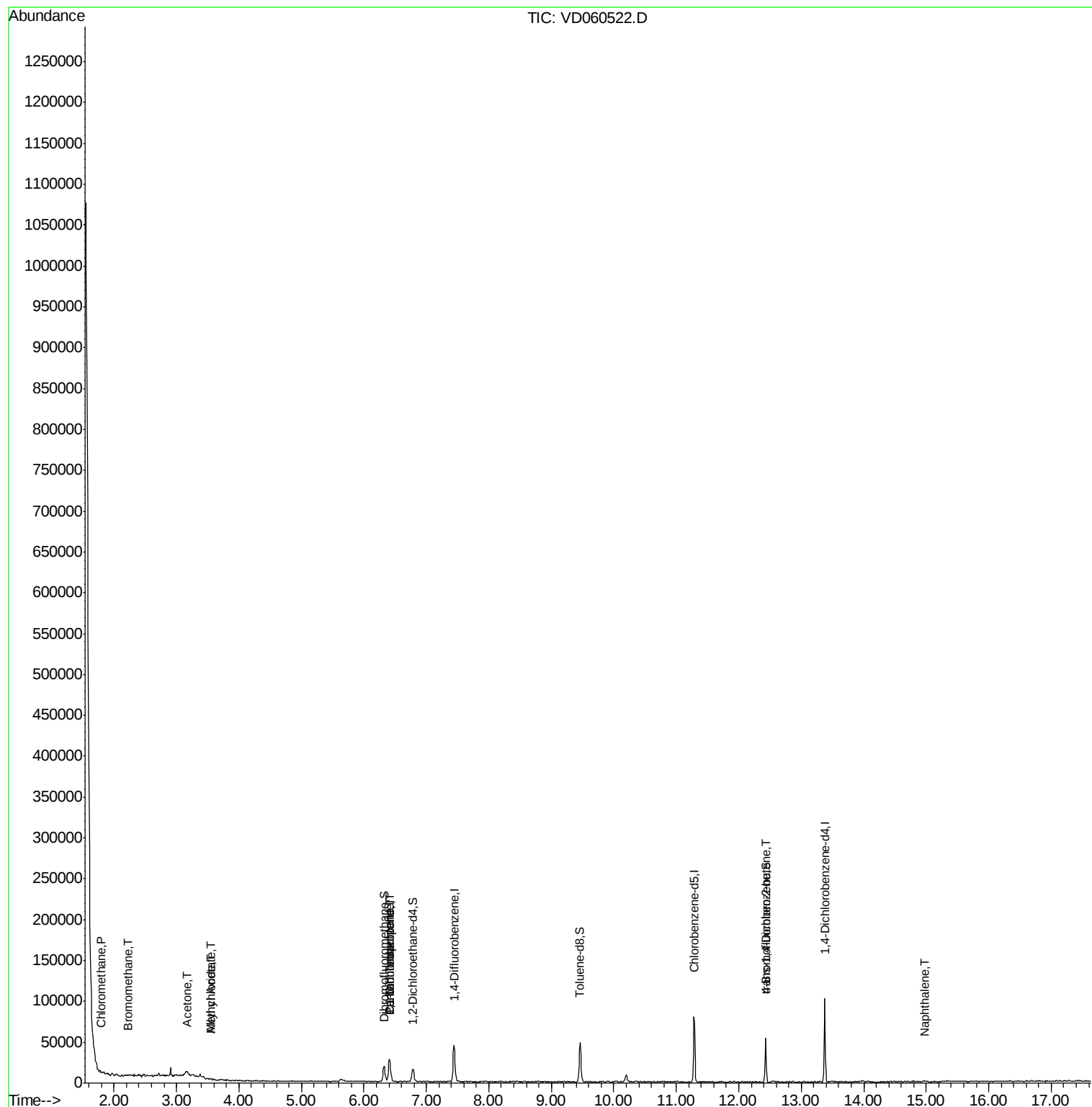
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.80	50	730	2.386	ug/l #	43
5) Bromomethane	2.22	94	2479	40.575	ug/l #	66
14) Allyl chloride	3.55	41	587	2.078	ug/l #	22
16) Acetone	3.16	43	11277	333.267	ug/l	97
18) Methyl Acetate	3.56	43	514	6.391	ug/l #	64
20) Methylene Chloride	3.73	84	517	Below Cal	#	32
31) Cyclohexane	6.41	56	178	Below Cal	#	68
36) 1,1-Dichloropropene	6.41	75	1953	3.983	ug/l #	41
38) Carbon Tetrachloride	6.40	117	2240	5.089	ug/l #	12
81) trans-1,4-Dichloro-2-buten	12.43	75	6358	84.506	ug/l #	14
89) n-Butylbenzene	13.65	91	205	Below Cal	#	29
95) Naphthalene	14.97	128	723	1.186	ug/l #	70

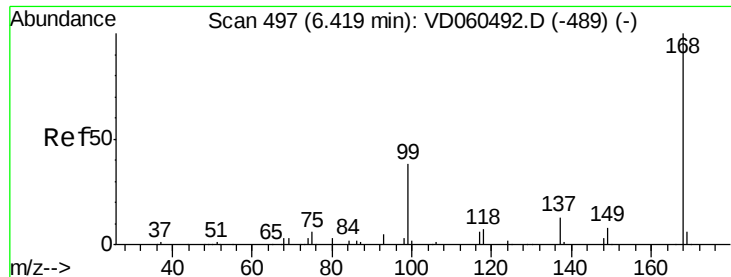
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

Instrument :

MSVOA_D

ClientSampleId :

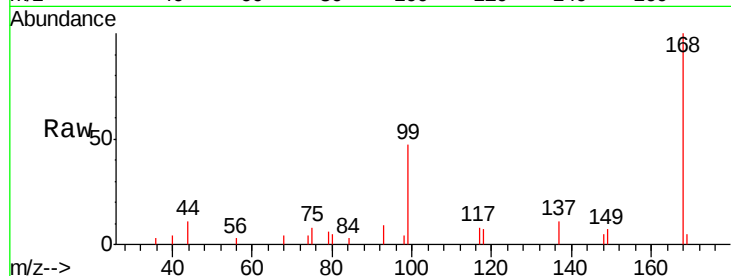
SOIL

Tgt Ion:168 Resp: 29783

Ion Ratio Lower Upper

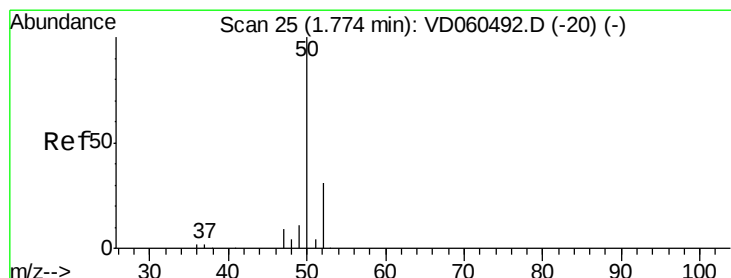
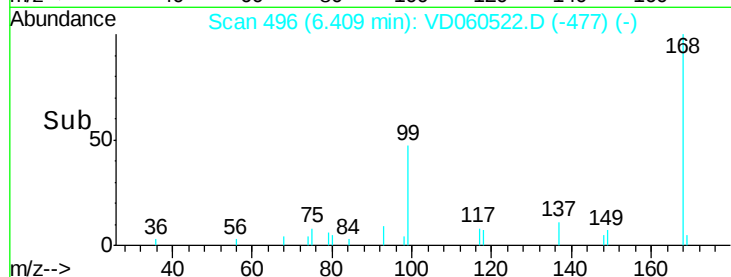
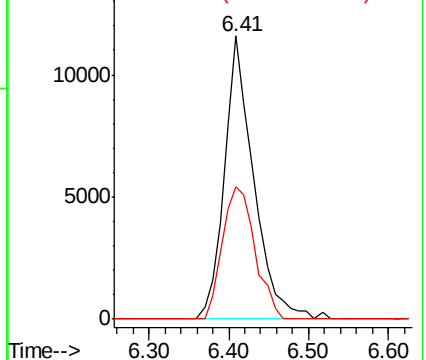
168 100

99 46.6 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.386 ug/l

RT: 1.80 min Scan# 28

Delta R.T. 0.03 min

Lab File: VD060522.D

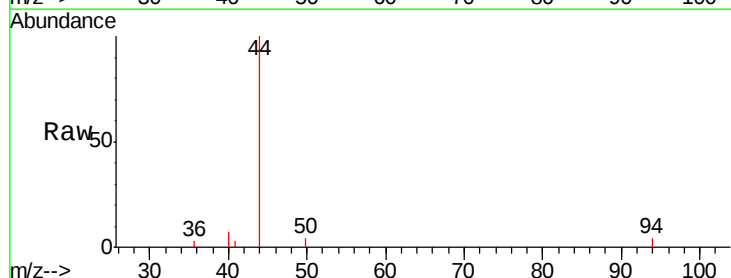
Acq: 10 Dec 2018 13:57

Tgt Ion: 50 Resp: 730

Ion Ratio Lower Upper

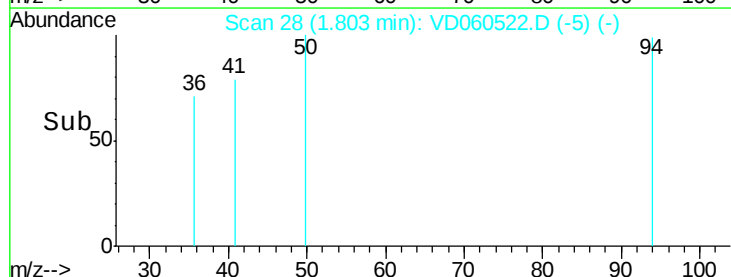
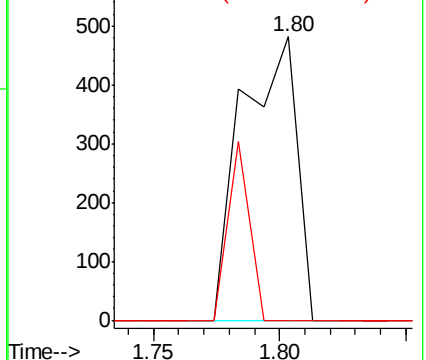
50 100

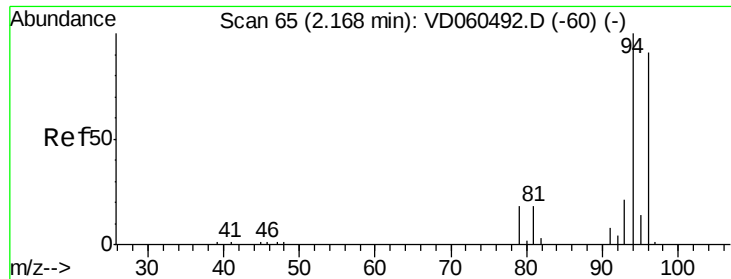
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

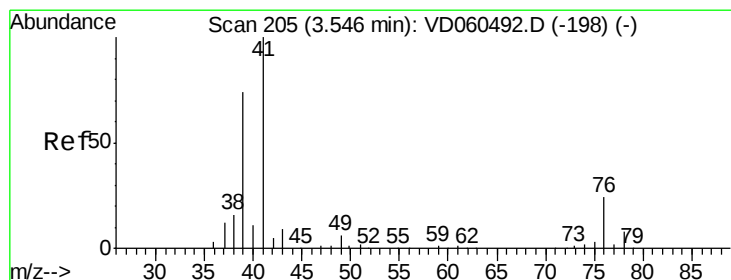
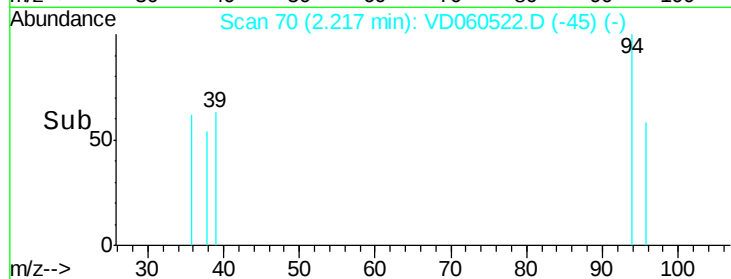
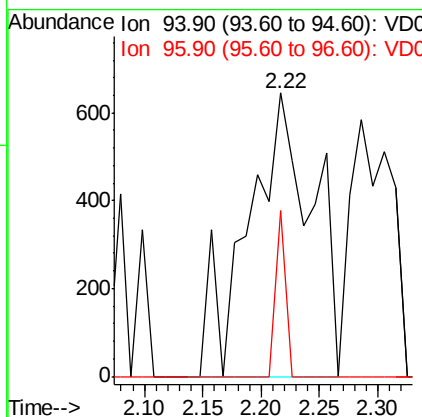
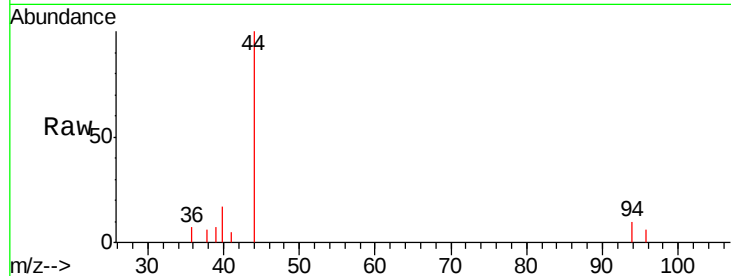




#5
Bromomethane
Concen: 40.575 ug/l
RT: 2.22 min Scan# 70
Delta R.T. 0.05 min
Lab File: VD060522.D
Acq: 10 Dec 2018 13:57

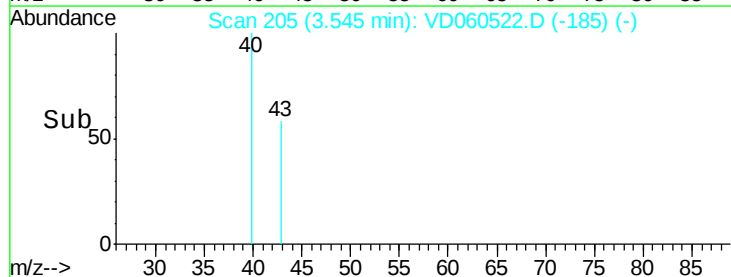
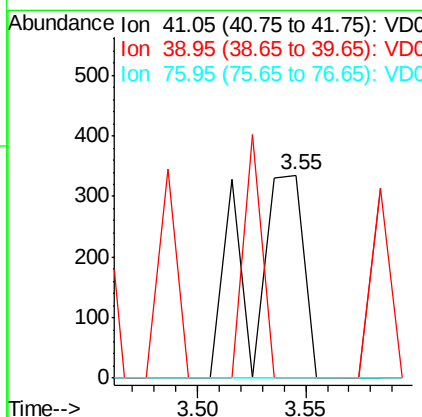
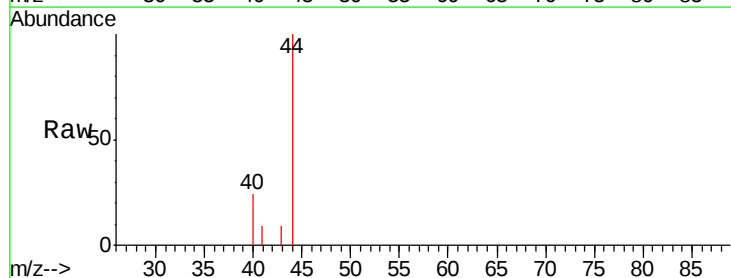
Instrument :
MSVOA_D
ClientSampleId :
SOIL

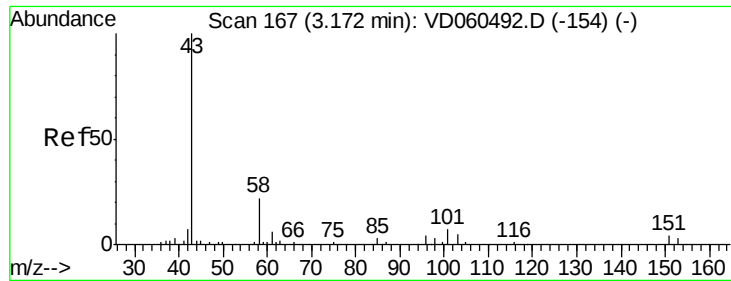
Tgt Ion: 94 Resp: 2479
Ion Ratio Lower Upper
94 100
96 58.4 72.6 108.8#



#14
Allyl chloride
Concen: 2.078 ug/l
RT: 3.55 min Scan# 205
Delta R.T. -0.00 min
Lab File: VD060522.D
Acq: 10 Dec 2018 13:57

Tgt Ion: 41 Resp: 587
Ion Ratio Lower Upper
41 100
39 0.0 59.3 88.9#
76 0.0 21.0 31.6#





#16

Acetone

Concen: 333.267 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

Instrument :

MSVOA_D

ClientSampled :

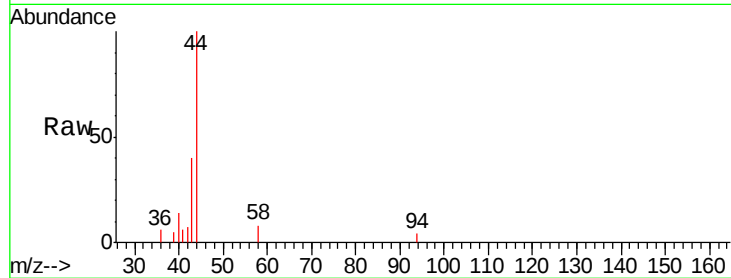
SOIL

Tgt Ion: 43 Resp: 11277

Ion Ratio Lower Upper

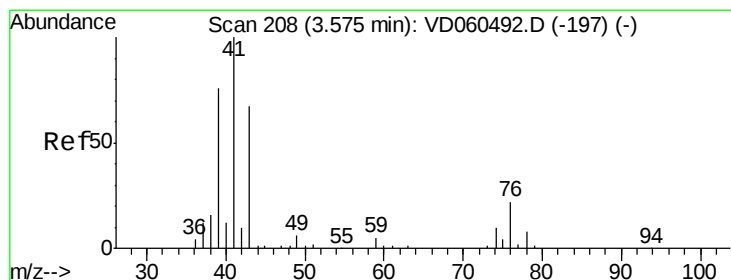
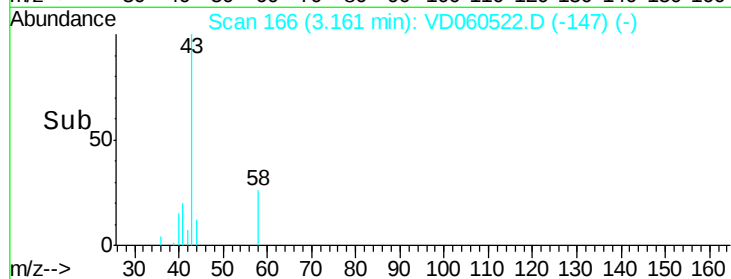
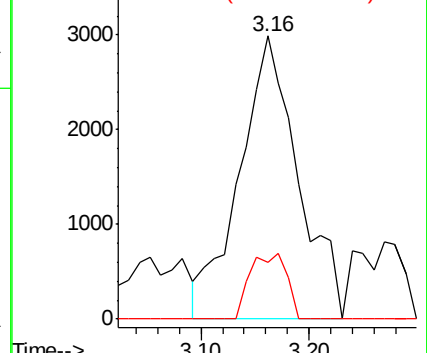
43 100

58 20.0 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 6.391 ug/l

RT: 3.56 min Scan# 206

Delta R.T. -0.02 min

Lab File: VD060522.D

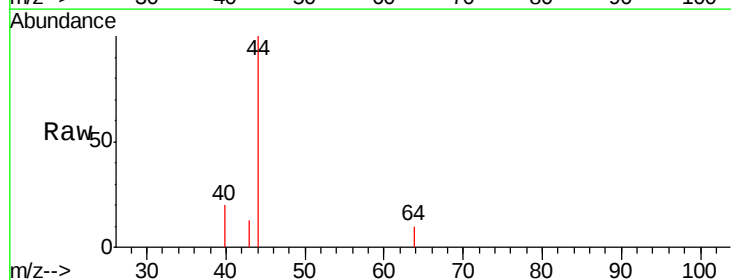
Acq: 10 Dec 2018 13:57

Tgt Ion: 43 Resp: 514

Ion Ratio Lower Upper

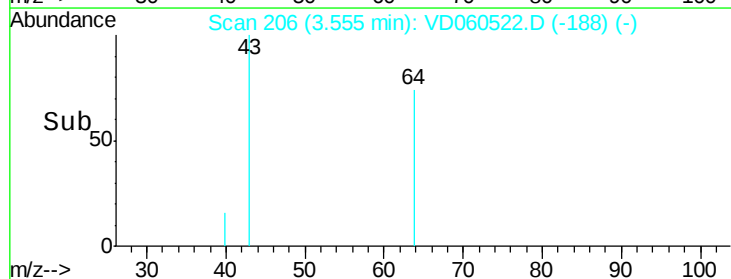
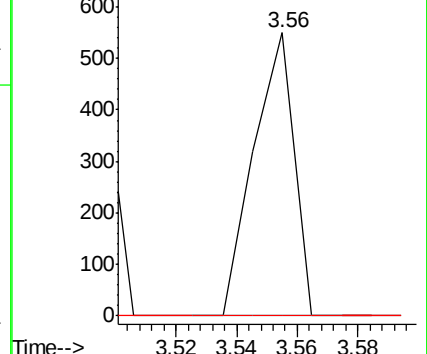
43 100

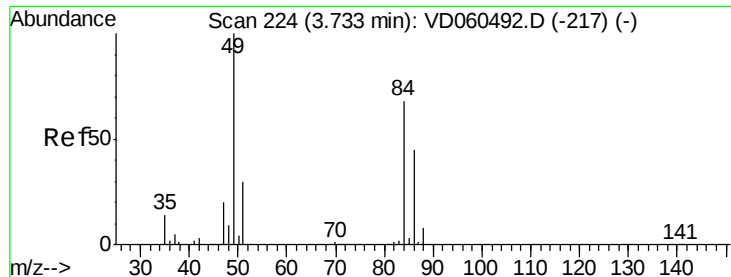
74 0.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: Below Cal

RT: 3.73 min Scan# 224

Delta R.T. 0.00 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

Instrument :

MSVOA_D

ClientSampled :

SOIL

Tgt Ion: 84 Resp: 517

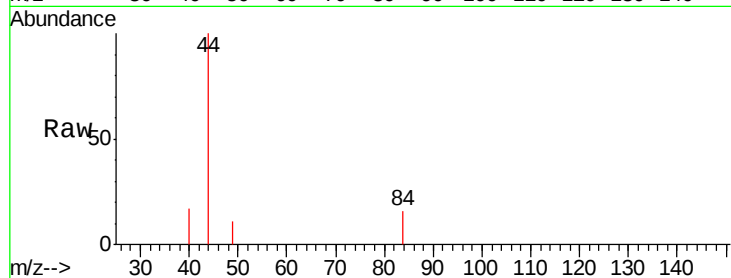
Ion Ratio Lower Upper

84 100

49 69.1 117.2 175.8#

51 0.0 35.3 52.9#

86 0.0 53.2 79.8#

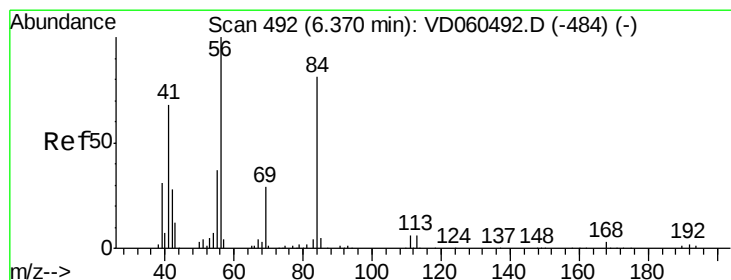
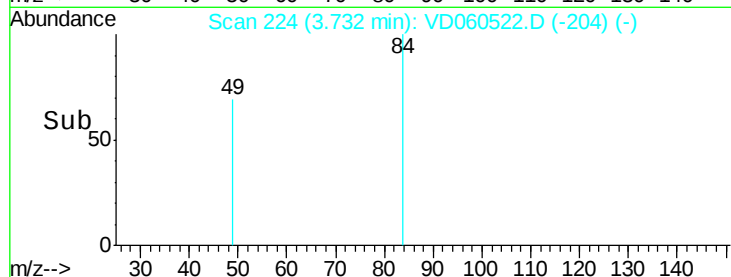
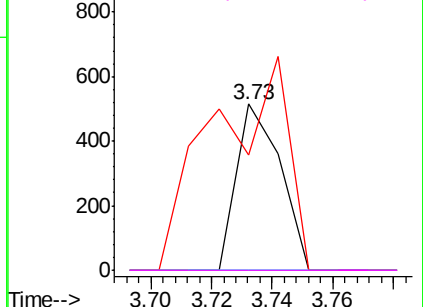


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 6.41 min Scan# 496

Delta R.T. 0.04 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

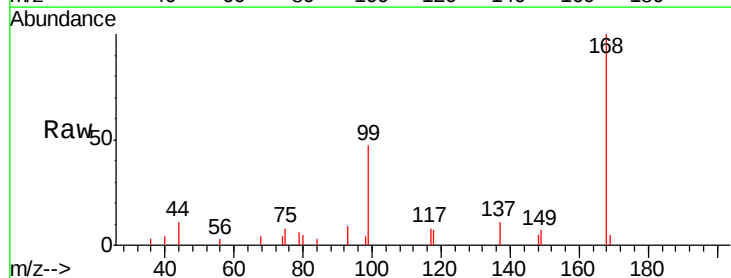
Tgt Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

69 0.0 22.8 34.2#

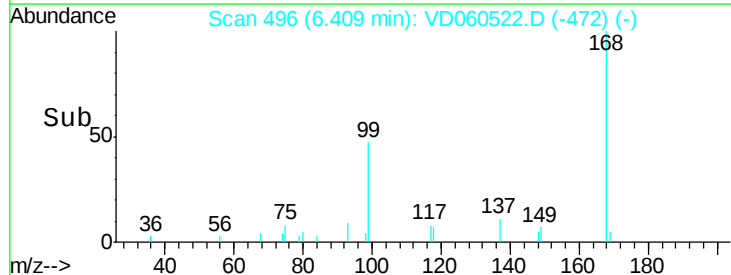
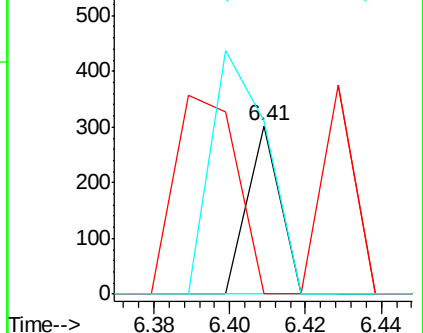
84 102.6 65.1 97.7#

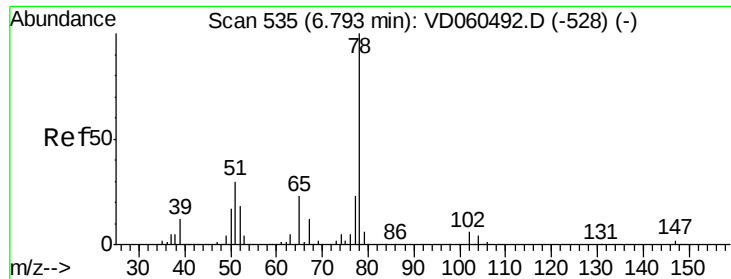


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

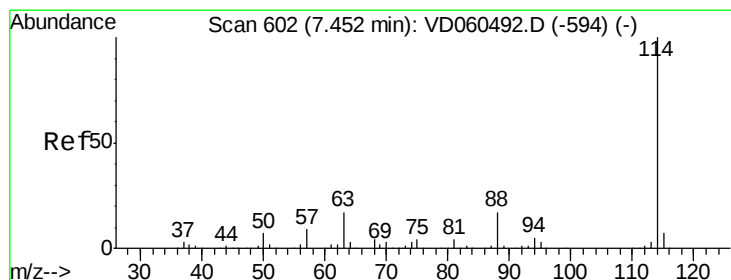
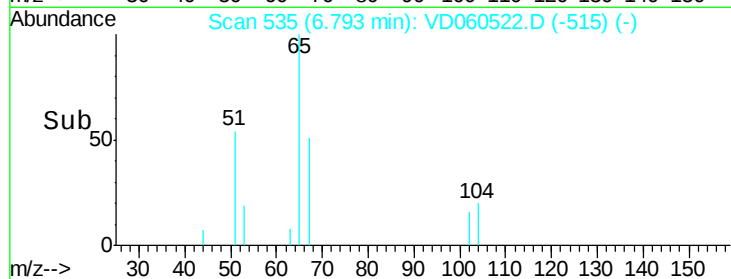
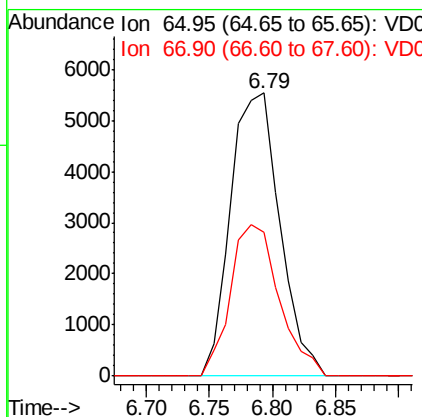
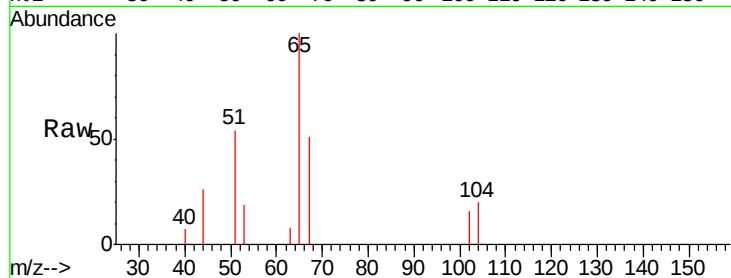




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.79 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VD060522.D
 Acq: 10 Dec 2018 13:57

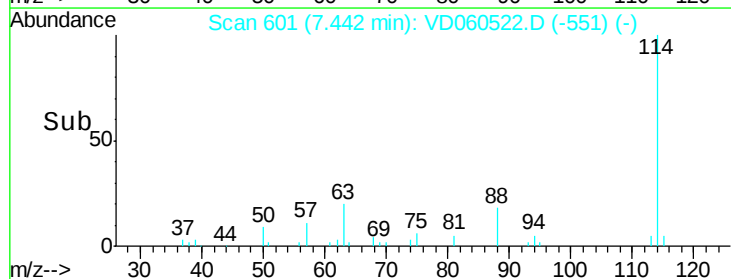
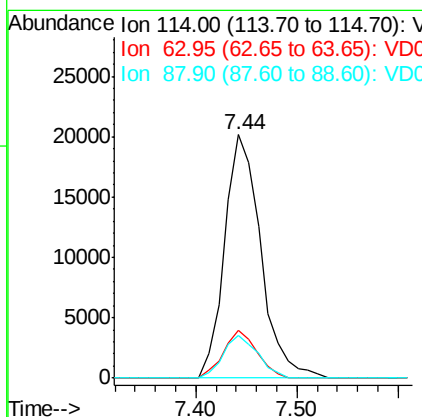
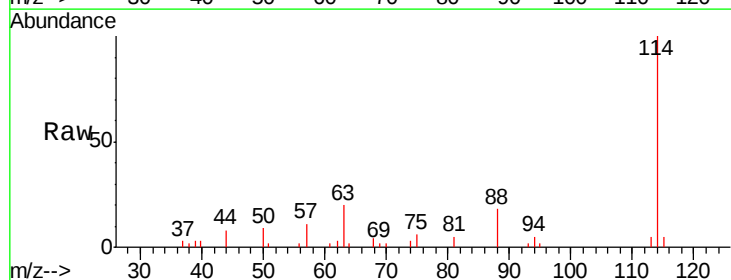
Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL

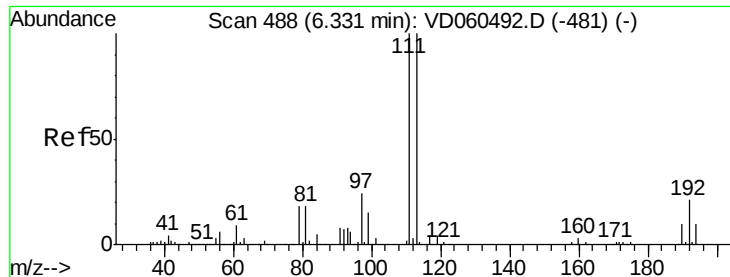
Tgt Ion: 65 Resp: 14992
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: VD060522.D
 Acq: 10 Dec 2018 13:57

Tgt Ion: 114 Resp: 50160
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 34.2
 88 17.6 0.0 35.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 487

Delta R.T. -0.01 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

Instrument :

MSVOA_D

ClientSampleId :

SOIL

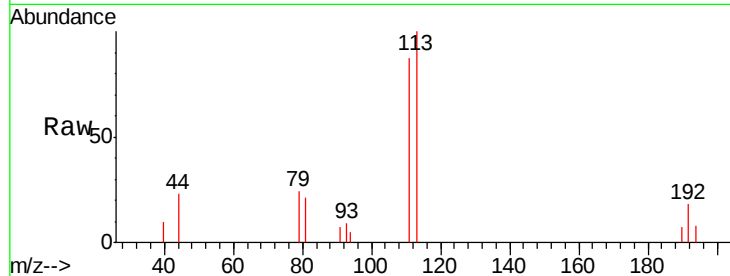
Tgt Ion:113 Resp: 15802

Ion Ratio Lower Upper

113 100

111 86.7 80.2 120.4

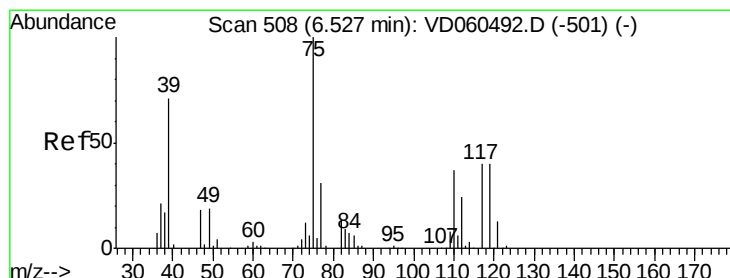
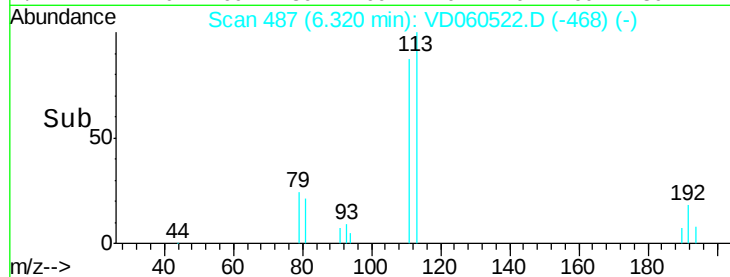
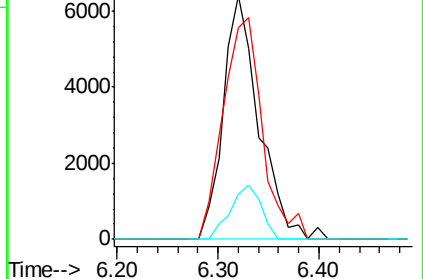
192 18.5 16.6 24.8



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: 3.983 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.12 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

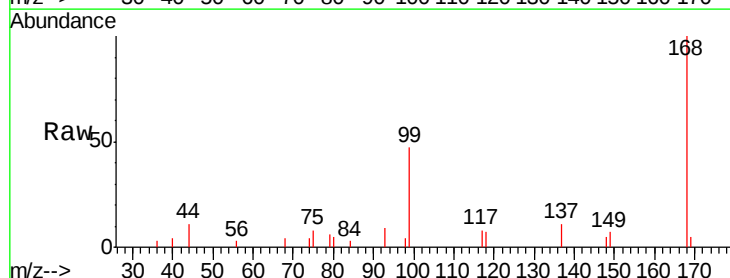
Tgt Ion: 75 Resp: 1953

Ion Ratio Lower Upper

75 100

110 0.0 18.3 54.8#

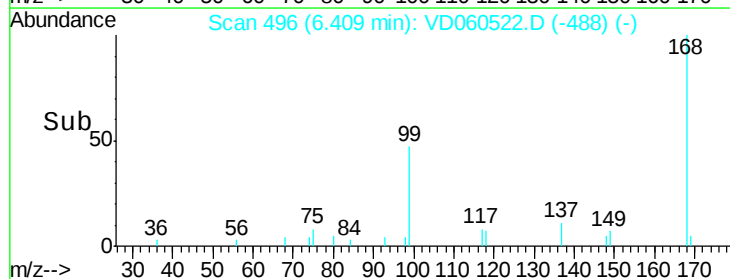
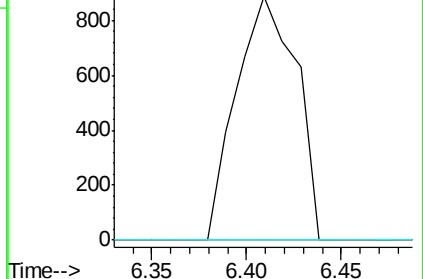
77 0.0 24.6 37.0#

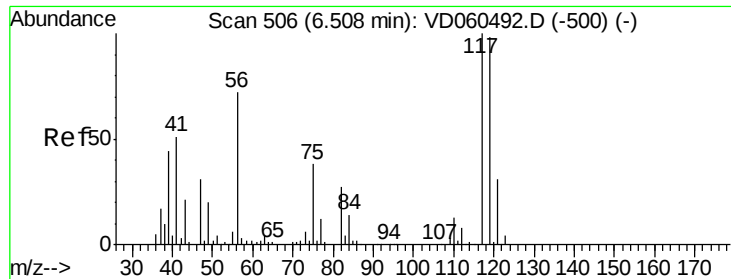


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

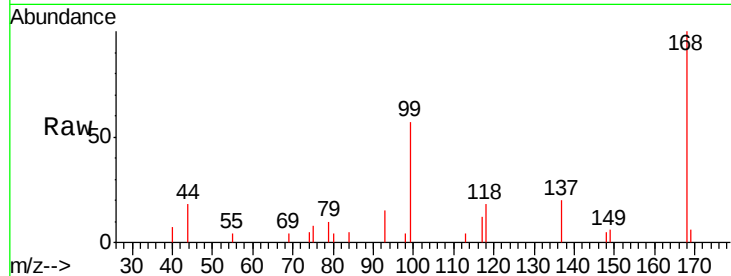




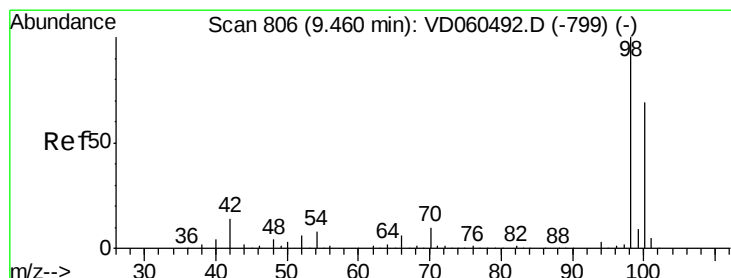
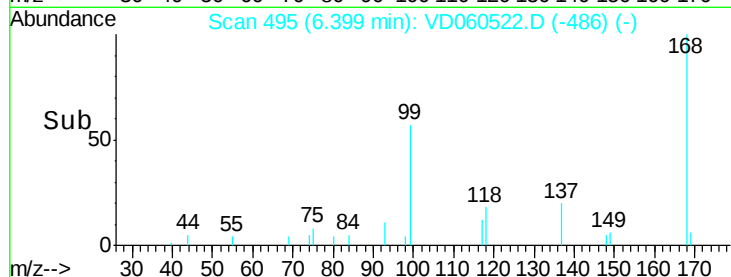
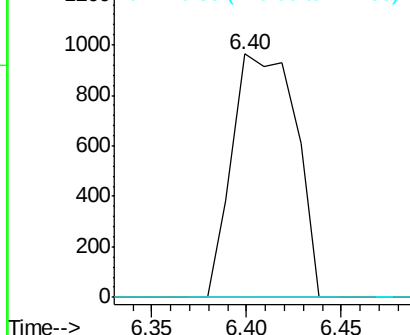
#38
Carbon Tetrachloride
Concen: 5.089 ug/l
RT: 6.40 min Scan# 495
Delta R.T. -0.11 min
Lab File: VD060522.D
Acq: 10 Dec 2018 13:57

Instrument :
MSVOA_D
ClientSampleId :
SOIL

Tgt Ion:117 Resp: 2240
Ion Ratio Lower Upper
117 100
119 0.0 76.8 115.2#
121 0.0 24.4 36.6#

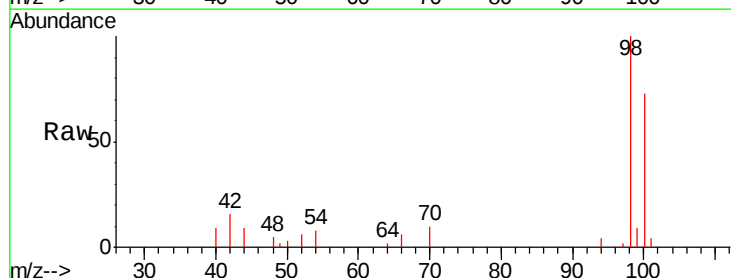


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

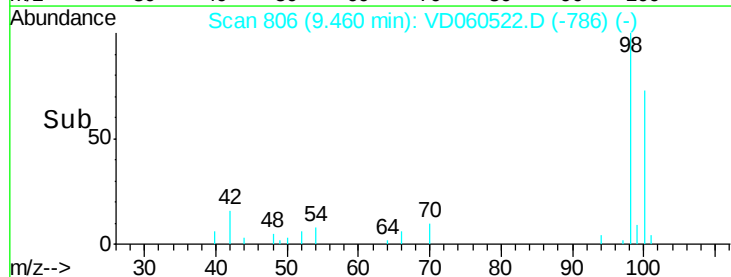
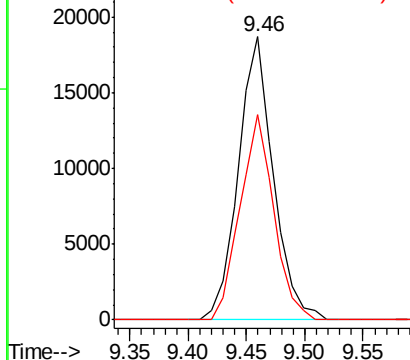


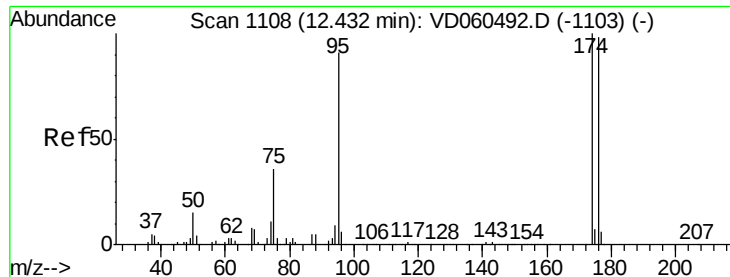
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 806
Delta R.T. -0.00 min
Lab File: VD060522.D
Acq: 10 Dec 2018 13:57

Tgt Ion: 98 Resp: 38845
Ion Ratio Lower Upper
98 100
100 72.6 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

Instrument :

MSVOA_D

ClientSampleId :

SOIL

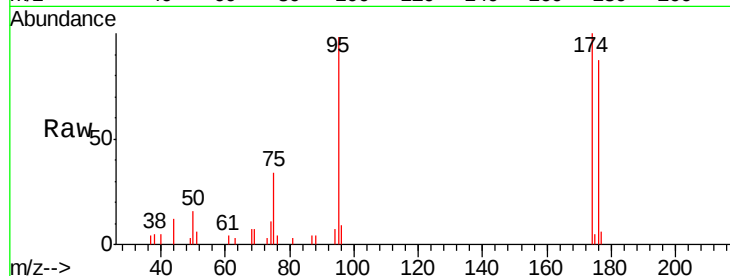
Tgt Ion: 95 Resp: 17190

Ion Ratio Lower Upper

95 100

174 102.5 0.0 219.4

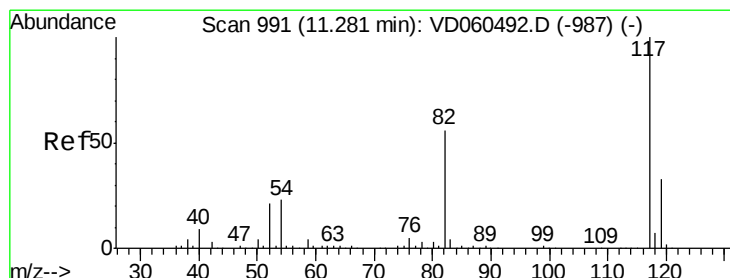
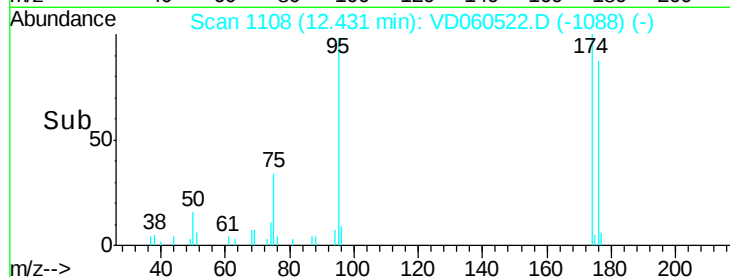
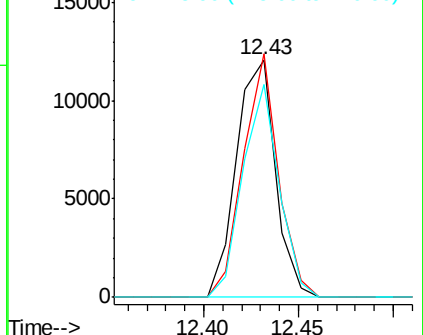
176 89.6 0.0 214.6



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: 11.28 min Scan# 991

Delta R.T. -0.00 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

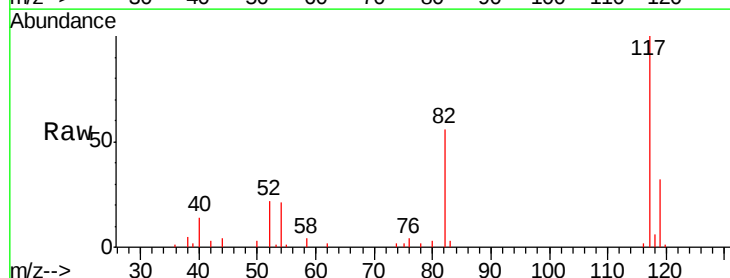
Tgt Ion: 117 Resp: 46148

Ion Ratio Lower Upper

117 100

82 56.0 45.2 67.8

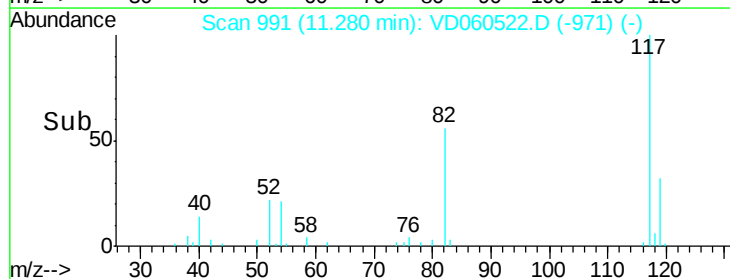
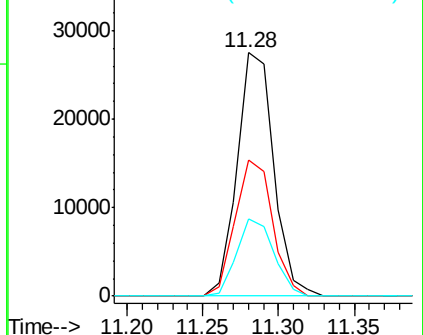
119 31.6 26.1 39.1

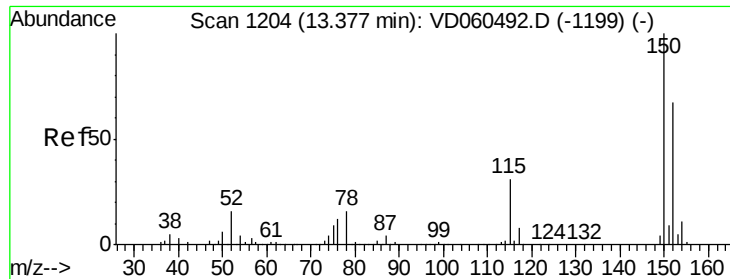


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.38 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

Instrument :

MSVOA_D

ClientSampled :

SOIL

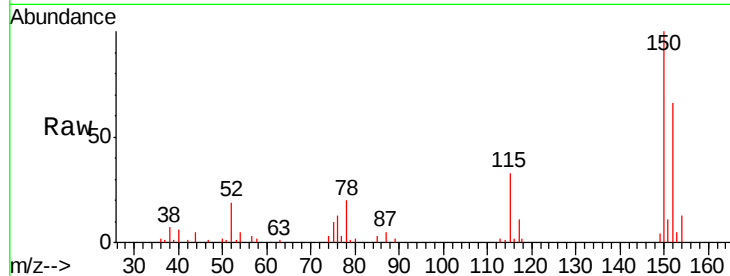
Tgt Ion:152 Resp: 23808

Ion Ratio Lower Upper

152 100

115 50.0 24.6 74.0

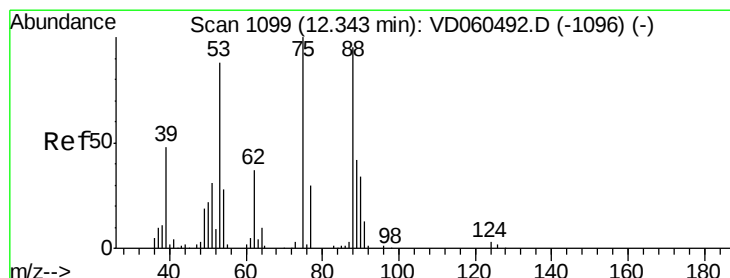
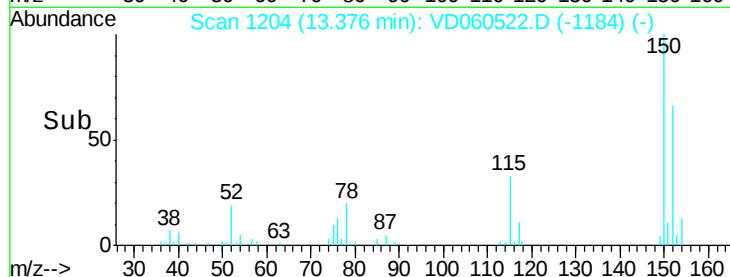
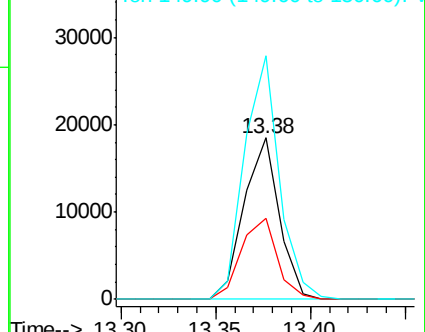
150 150.9 0.0 309.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 84.506 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.09 min

Lab File: VD060522.D

Acq: 10 Dec 2018 13:57

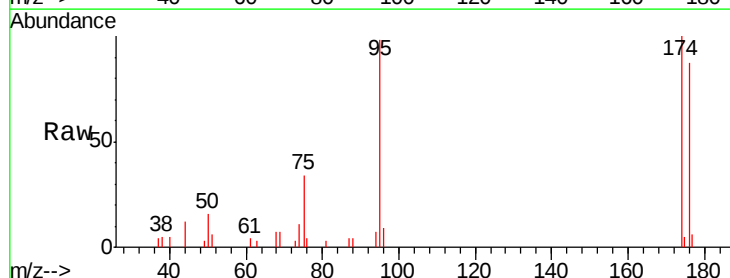
Tgt Ion: 75 Resp: 6358

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

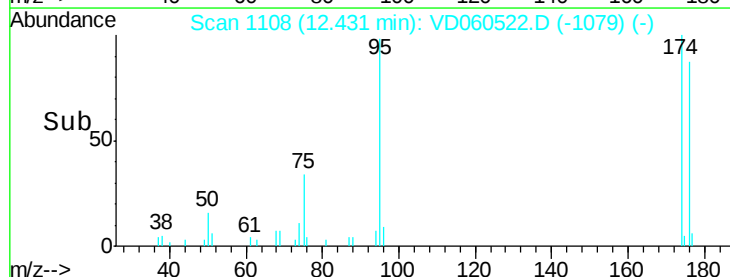
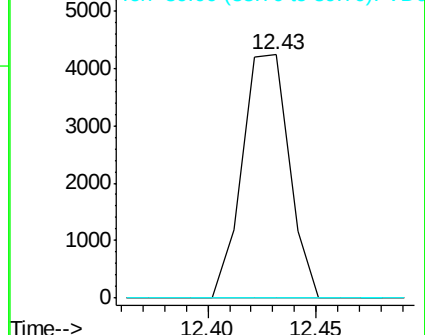
89 0.0 33.6 50.4#

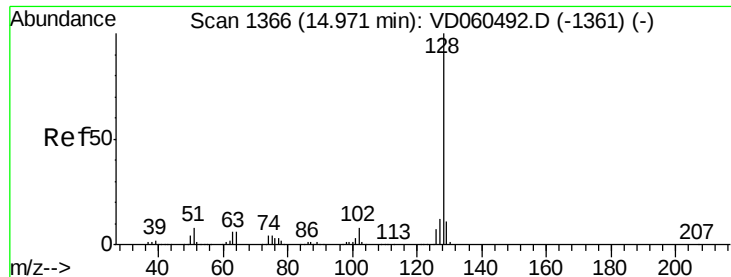


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.186 ug/l

RT: 14.97 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VD060522.D

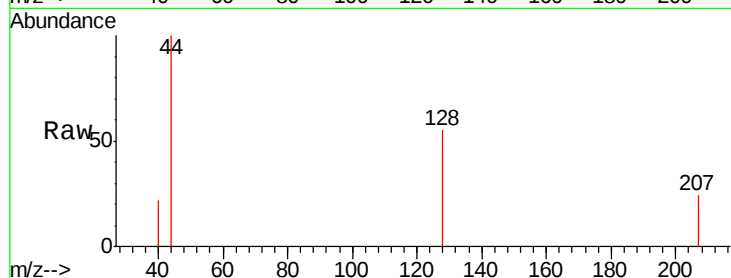
Acq: 10 Dec 2018 13:57

Instrument :

MSVOA_D

ClientSampleId :

SOIL



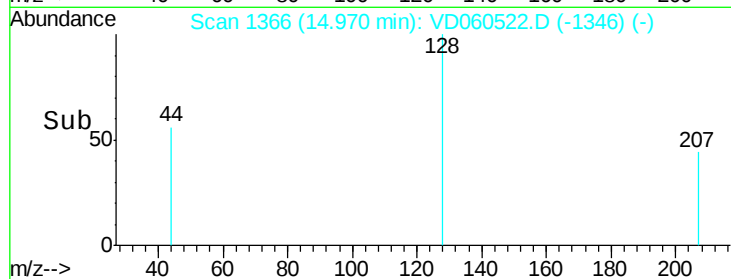
Tgt Ion:128 Resp: 723

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.6 13.0#



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

