

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD042519\
 Data File : VD062037.D
 Acq On : 25 Apr 2019 14:24
 Operator : VA/AP
 Sample : K2518-02RE
 Misc : 5.06g/5ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MUDDY-BAGSRE

Quant Time: Apr 25 14:55:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	67059	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	124886	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	100580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	37160	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	50917	97.01	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	194.02%	
35) Dibromofluoromethane	6.92	113	55627	64.40	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	128.80%	
50) Toluene-d8	10.41	98	109503	53.28	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	106.56%	
62) 4-Bromofluorobenzene	13.55	95	38228	46.38	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	92.76%	

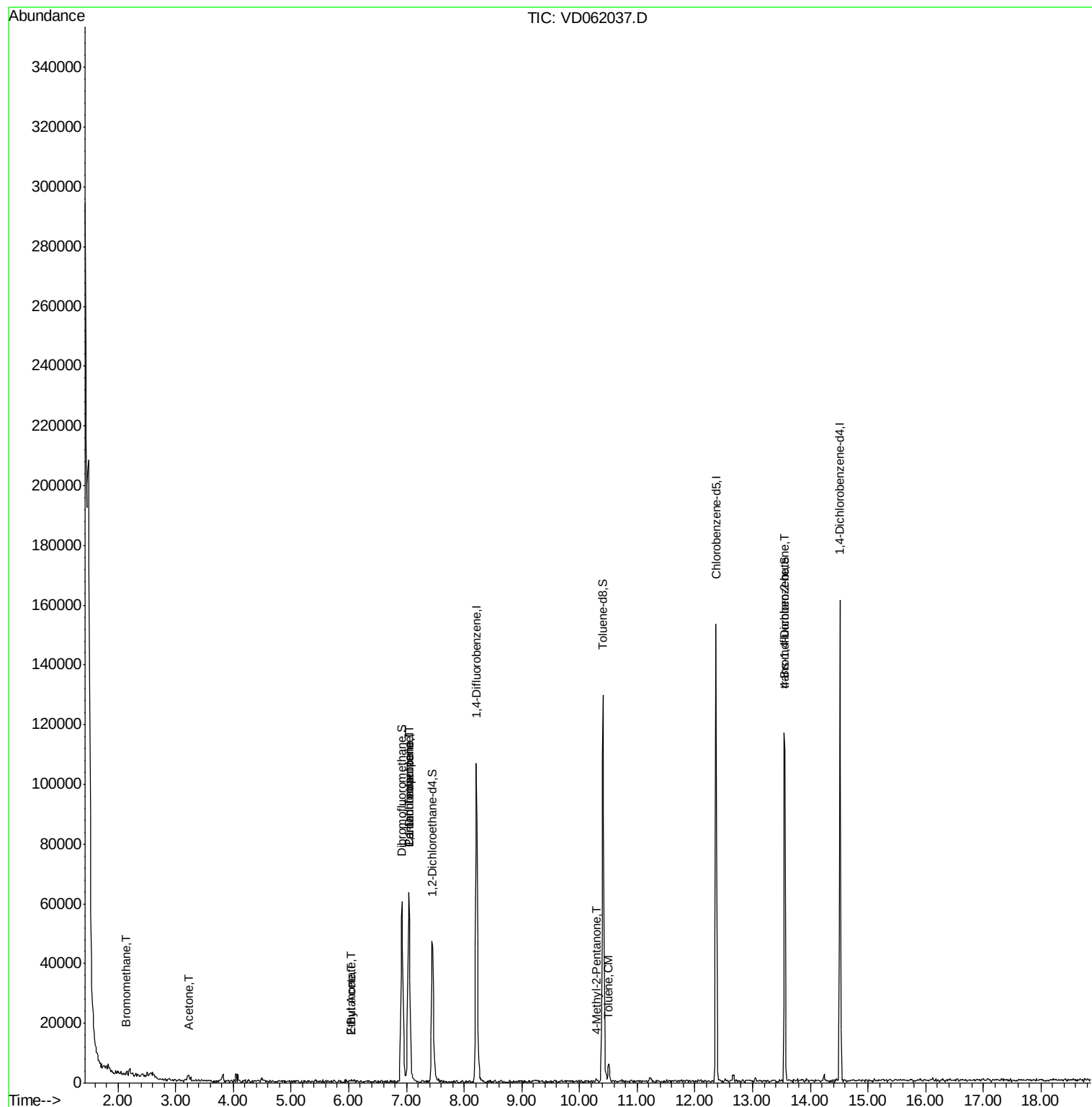
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	672	4.249	ug/l #	12
16) Acetone	3.22	43	4804	38.335	ug/l #	50
20) Methylene Chloride	3.81	84	1345	Below Cal	#	50
25) 2-Butanone	6.05	43	474	3.120	ug/l #	56
36) 1,1-Dichloropropene	7.04	75	4572	4.699	ug/l #	40
37) Ethyl Acetate	6.05	43	474	1.143	ug/l #	64
38) Carbon Tetrachloride	7.04	117	6641	5.386	ug/l #	12
51) 4-Methyl-2-Pentanone	10.29	43	1258	3.395	ug/l #	37
52) Toluene	10.51	92	3334	2.171	ug/l #	70
81) trans-1,4-Dichloro-2-buten	13.55	75	14763	103.240	ug/l #	16

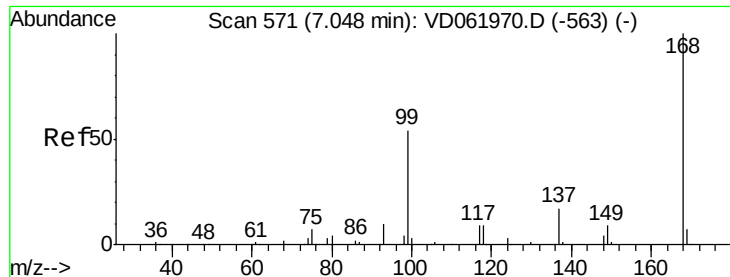
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 23 14:52:55 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Instrument :

MSVOA_D

ClientSampleId :

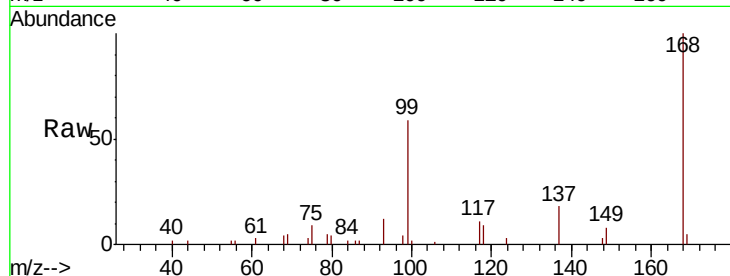
MUDDY-BAGSRE

Tgt Ion:168 Resp: 67059

Ion Ratio Lower Upper

168 100

99 58.9 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

25000

20000

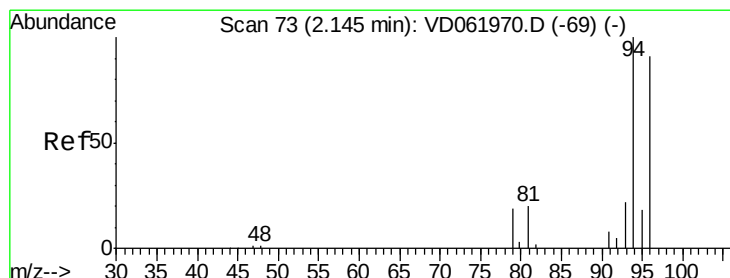
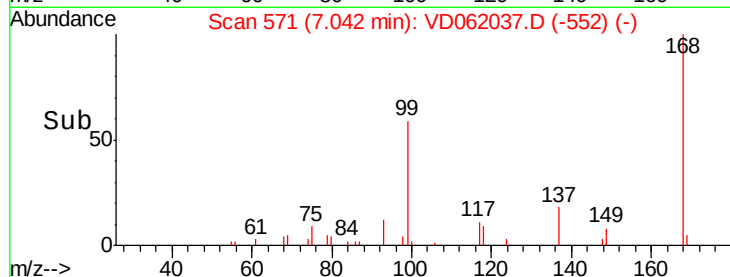
15000

10000

5000

0

Time--> 6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 4.249 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.01 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

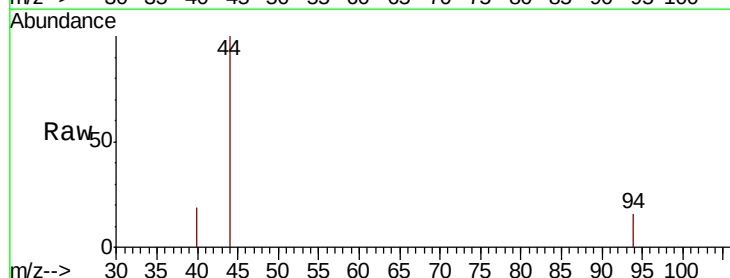
Tgt Ion: 94 Resp: 672

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

600

500

400

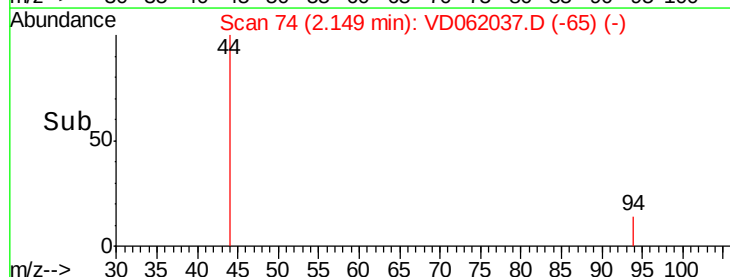
300

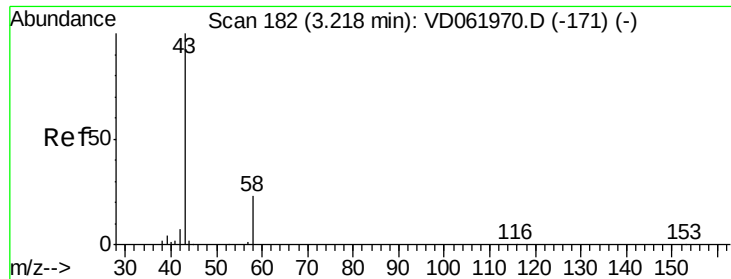
200

100

0

Time--> 2.12 2.14 2.16 2.18





#16

Acetone

Concen: 38.335 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Instrument :

MSVOA_D

ClientSampleId :

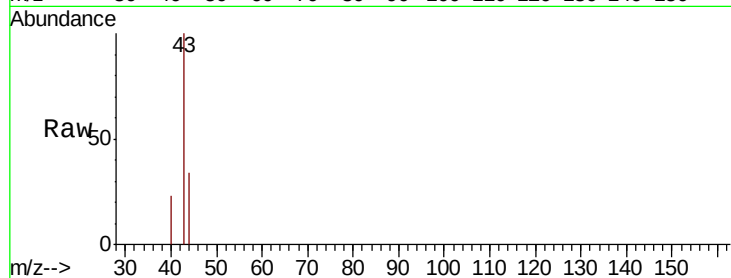
MUDDY-BAGSRE

Tgt Ion: 43 Resp: 4804

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

2000

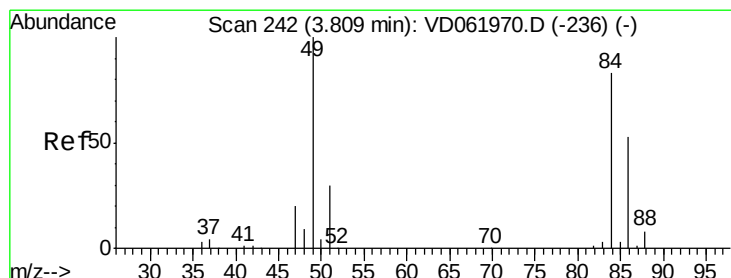
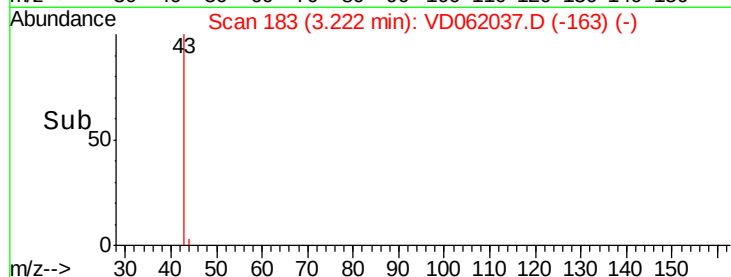
1500

1000

500

0

Time--> 3.15 3.20 3.25 3.30



#20

Methylene Chloride

Concen: Below Cal

RT: 3.81 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Tgt Ion: 84 Resp: 1345

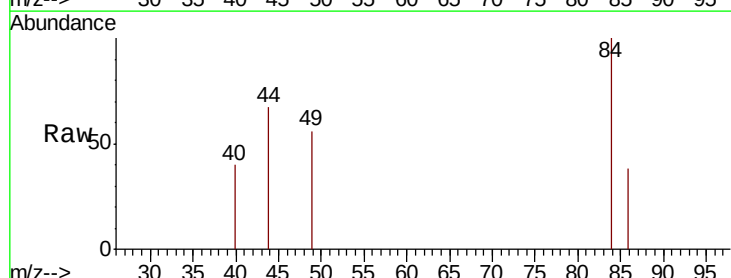
Ion Ratio Lower Upper

84 100

49 55.6 94.0 141.0#

51 0.0 29.0 43.4#

86 38.2 49.8 74.6#



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

3.81

1200

1000

800

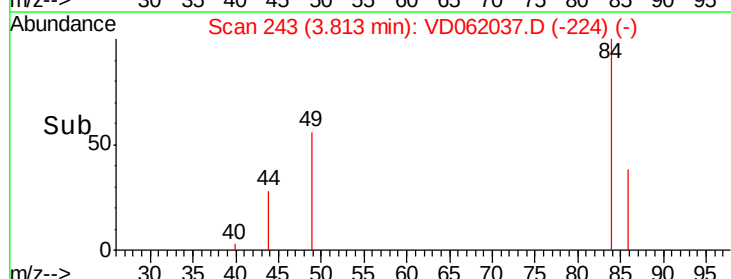
600

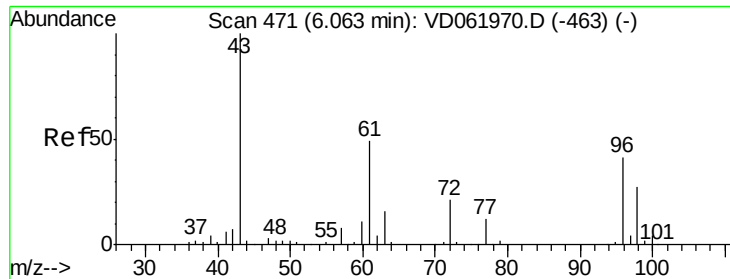
400

200

0

Time--> 3.75 3.80 3.85





#25

2-Butanone

Concen: 3.120 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.03 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Instrument :

MSVOA_D

ClientSampleId :

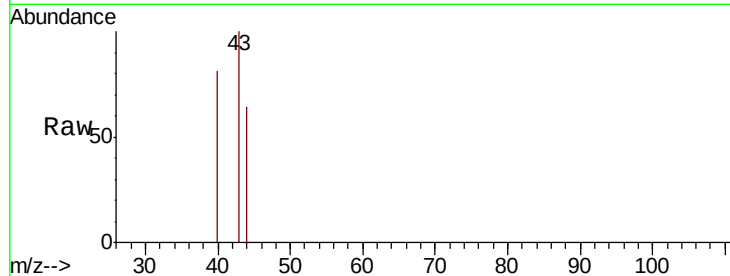
MUDDY-BAGSRE

Tgt Ion: 43 Resp: 474

Ion Ratio Lower Upper

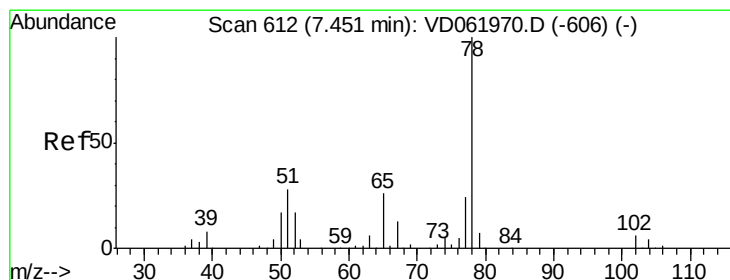
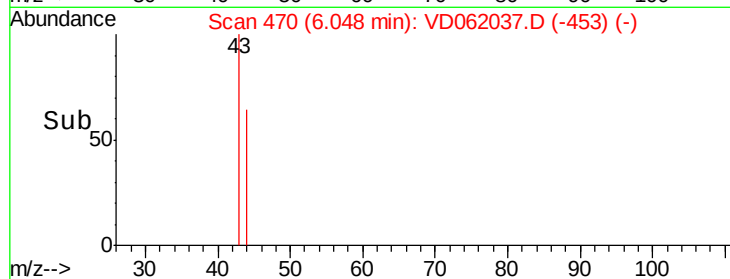
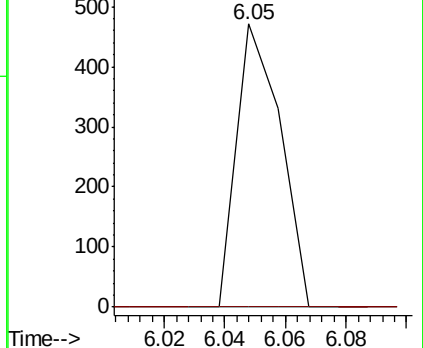
43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062037.D

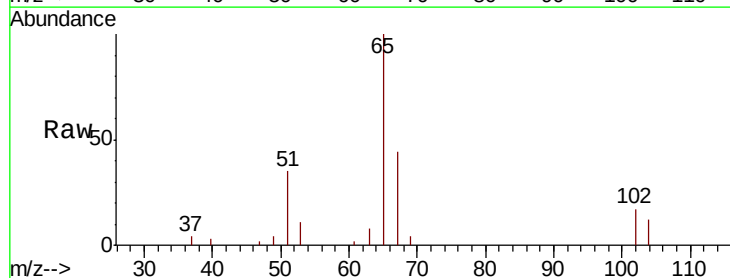
Acq: 25 Apr 2019 14:24

Tgt Ion: 65 Resp: 50917

Ion Ratio Lower Upper

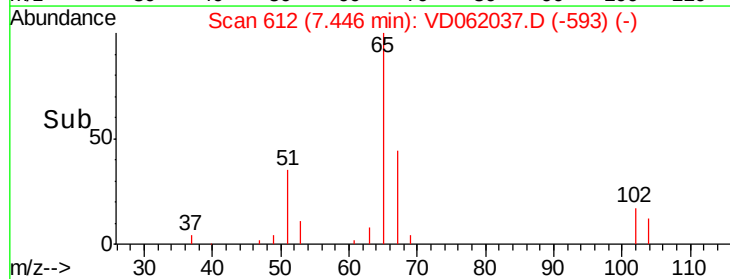
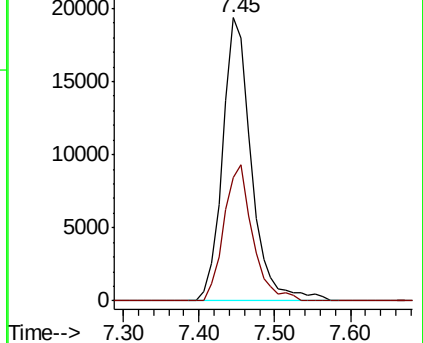
65 100

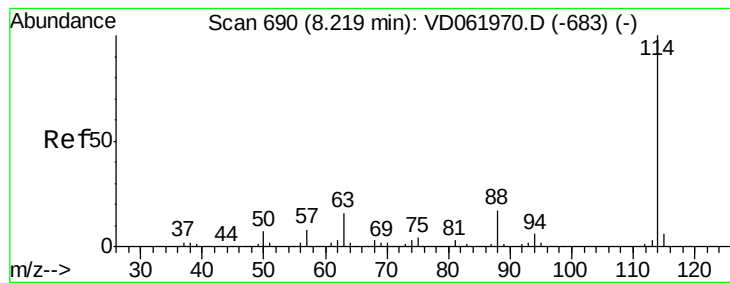
67 43.5 0.0 98.0



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: 8.21 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Instrument :

MSVOA_D

ClientSampleId :

MUDDY-BAGSRE

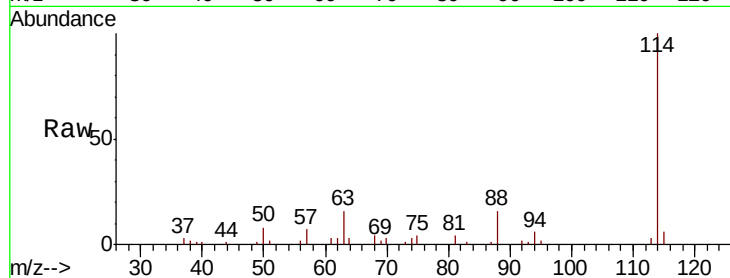
Tgt Ion:114 Resp: 124886

Ion Ratio Lower Upper

114 100

63 16.4 0.0 32.4

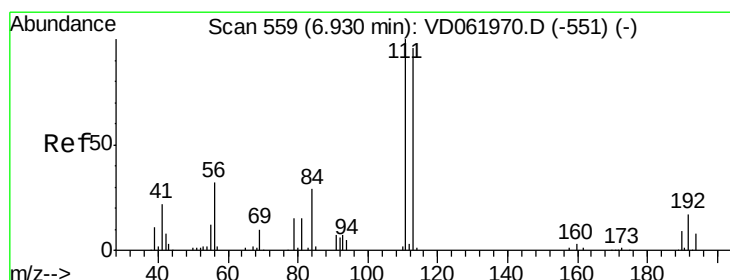
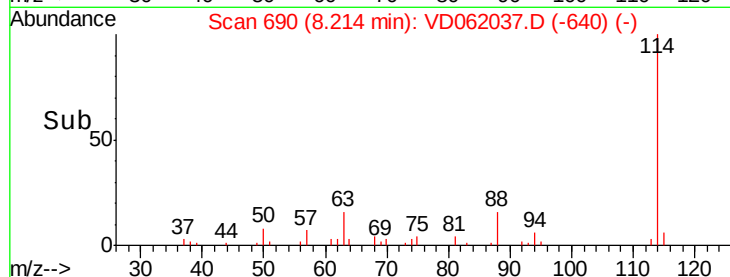
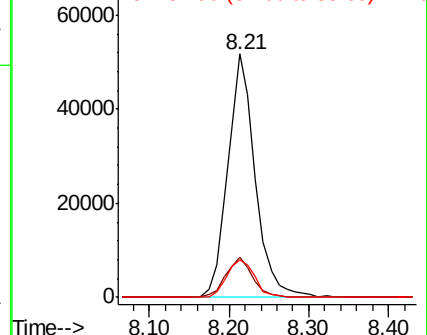
88 15.6 0.0 33.6



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: 6.92 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

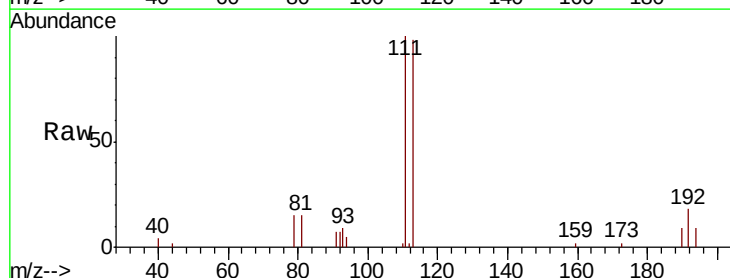
Tgt Ion:113 Resp: 55627

Ion Ratio Lower Upper

113 100

111 102.3 78.5 117.7

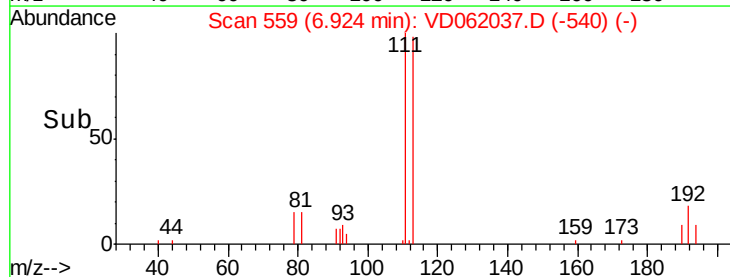
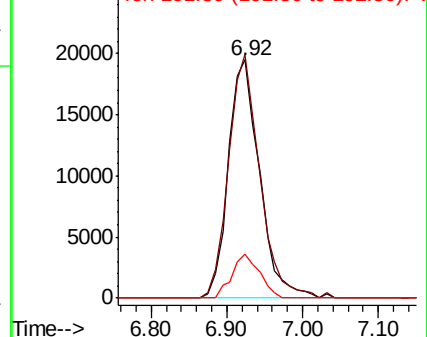
192 18.5 13.0 19.4

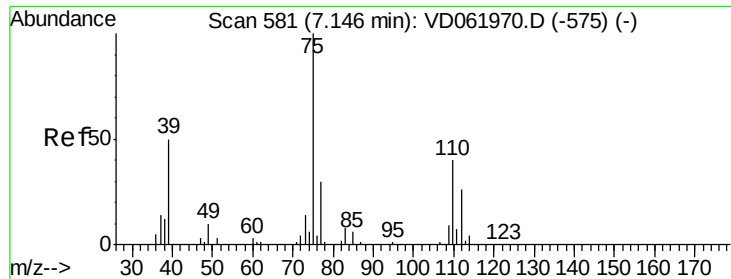


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

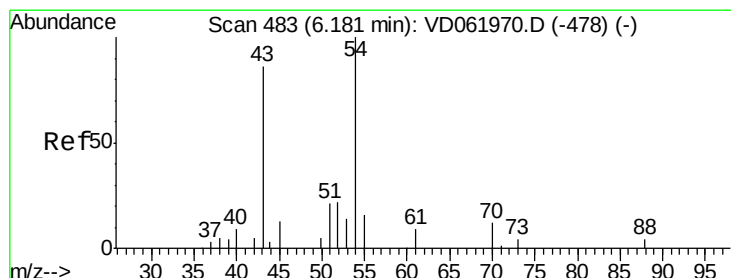
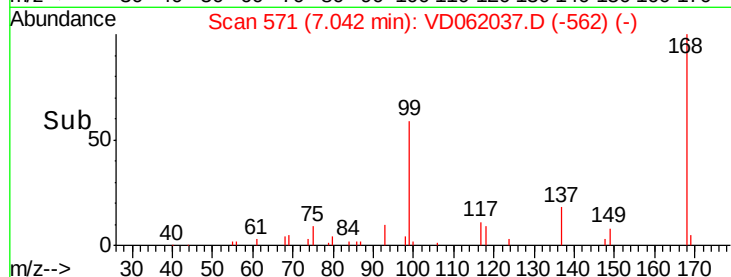
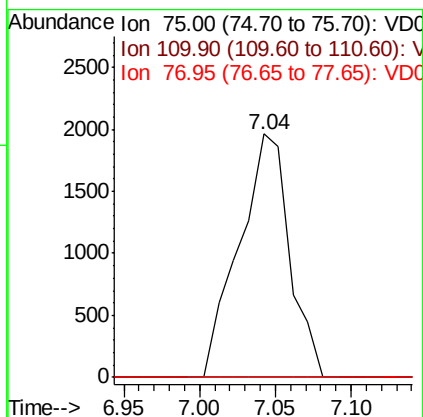
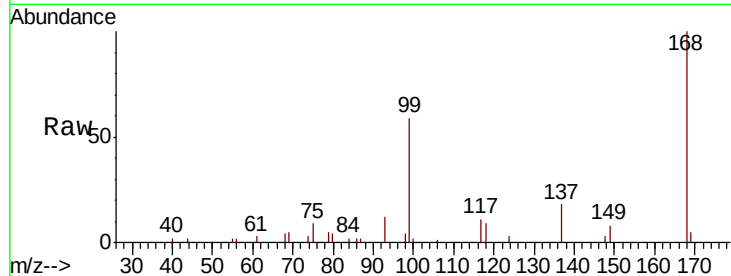




#36
 1,1-Dichloropropene
 Concen: 4.699 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.11 min
 Lab File: VD062037.D
 Acq: 25 Apr 2019 14:24

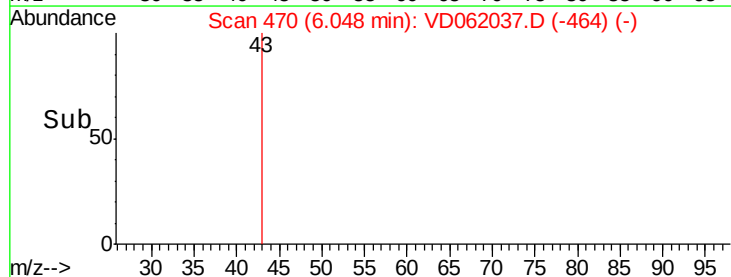
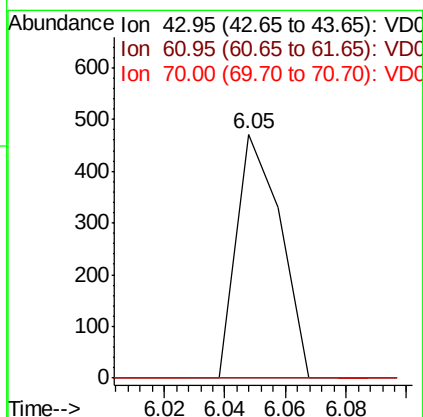
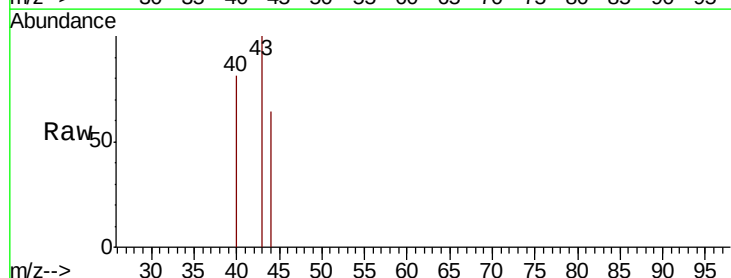
Instrument :
 MSVOA_D
 ClientSampleId :
 MUDDY-BAGSRE

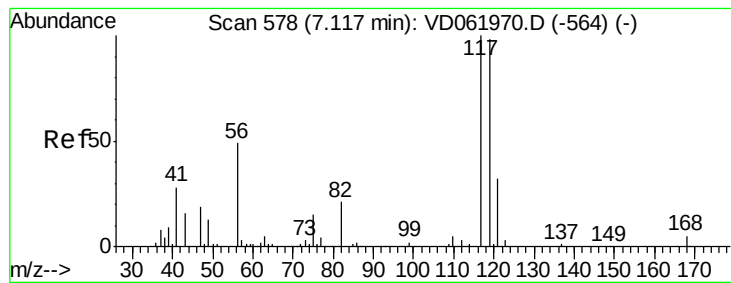
Tgt Ion: 75 Resp: 4572
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.1 57.1#
 77 0.0 25.6 38.4#



#37
 Ethyl Acetate
 Concen: 1.143 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. -0.14 min
 Lab File: VD062037.D
 Acq: 25 Apr 2019 14:24

Tgt Ion: 43 Resp: 474
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.7 22.1#
 70 0.0 7.8 11.6#





#38

Carbon Tetrachloride

Concen: 5.386 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Instrument :

MSVOA_D

ClientSampleId :

MUDDY-BAGSRE

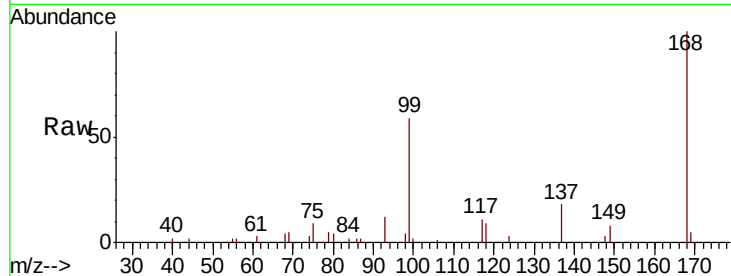
Tgt Ion:117 Resp: 6641

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

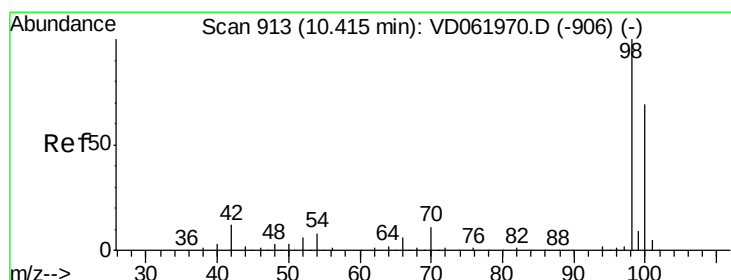
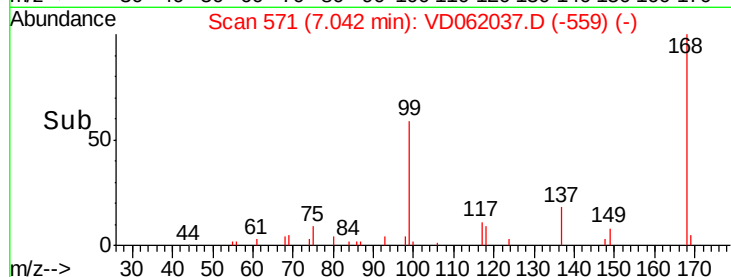
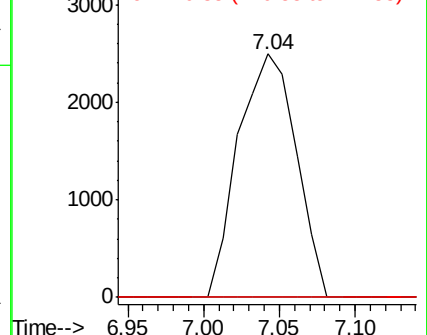
121 0.0 25.9 38.9#



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: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD062037.D

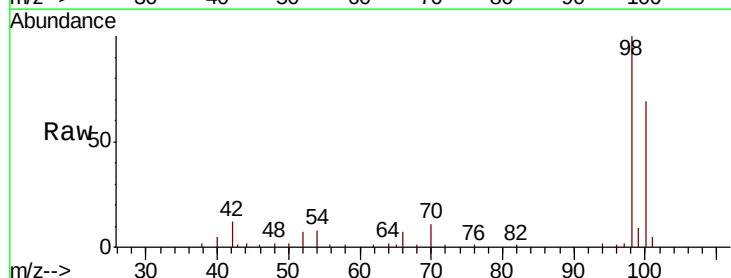
Acq: 25 Apr 2019 14:24

Tgt Ion: 98 Resp: 109503

Ion Ratio Lower Upper

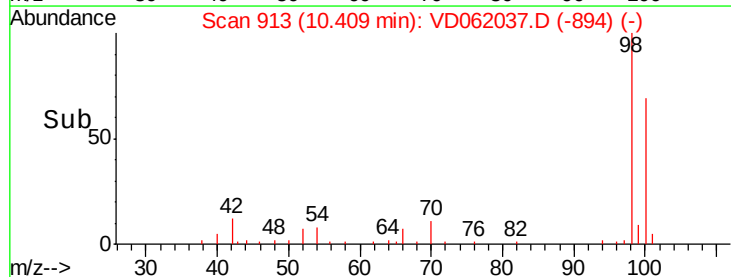
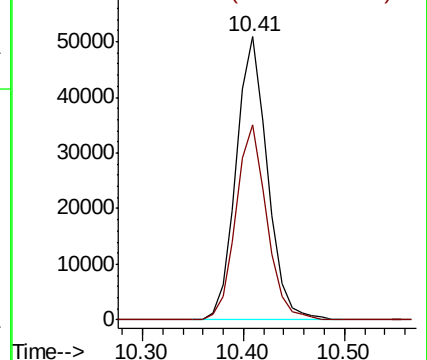
98 100

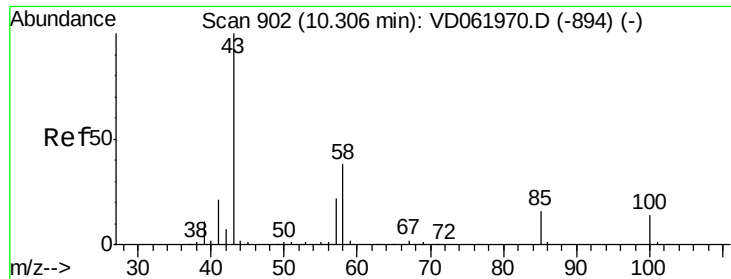
100 68.7 53.8 80.8



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: 3.395 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Instrument :

MSVOA_D

ClientSampleId :

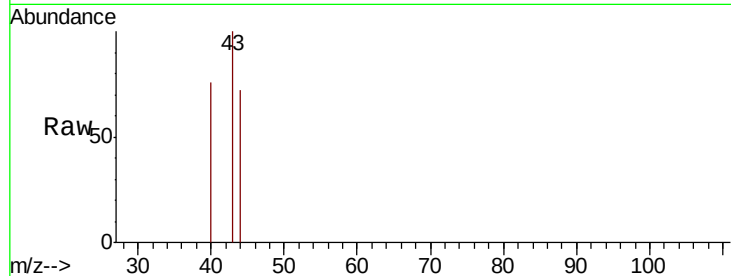
MUDDY-BAGSRE

Tgt Ion: 43 Resp: 1258

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

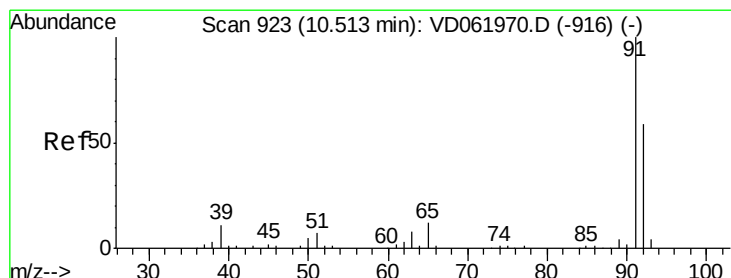
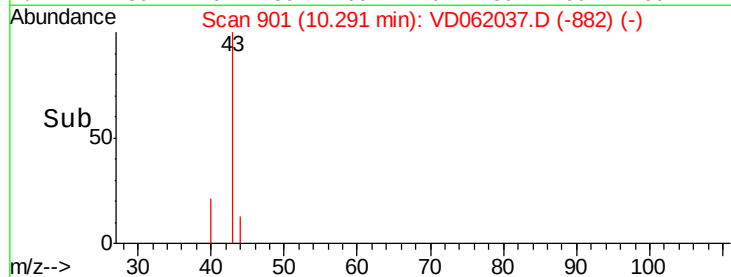
600

400

200

0

Time-->



#52

Toluene

Concen: 2.171 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.01 min

Lab File: VD062037.D

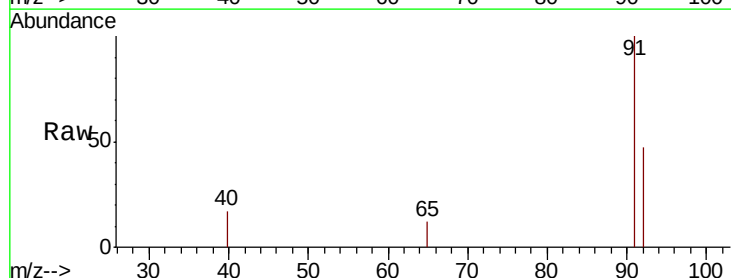
Acq: 25 Apr 2019 14:24

Tgt Ion: 92 Resp: 3334

Ion Ratio Lower Upper

92 100

91 211.5 136.6 204.8#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

4000

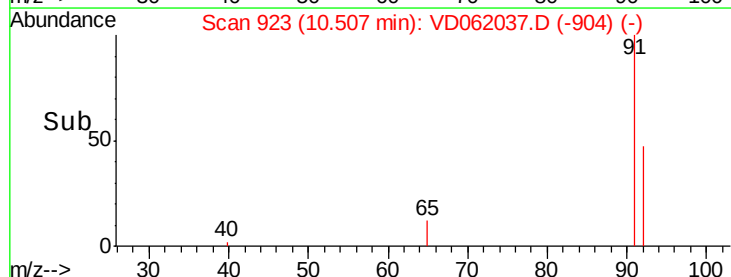
3000

2000

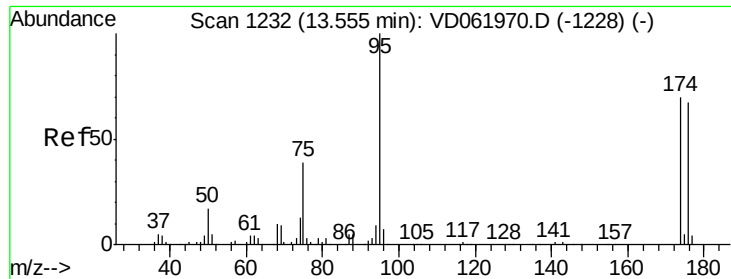
1000

0

Time-->



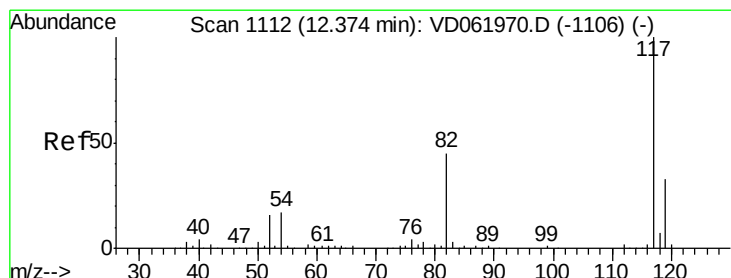
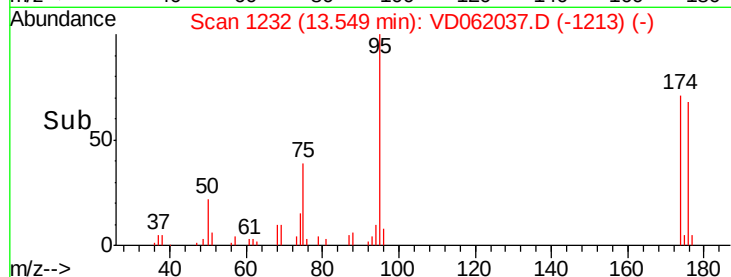
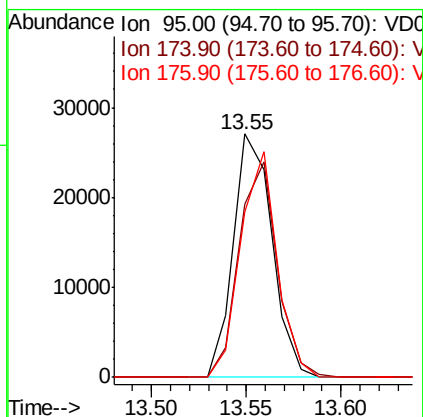
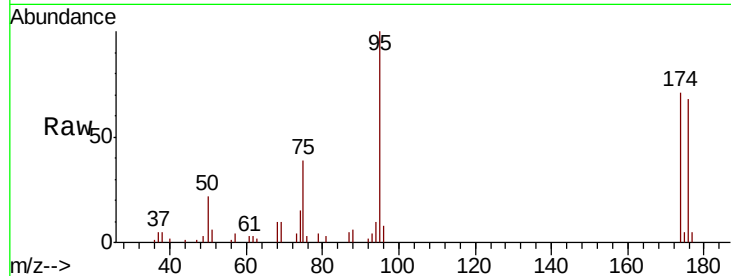
Time-->



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: VD062037.D
 Acq: 25 Apr 2019 14:24

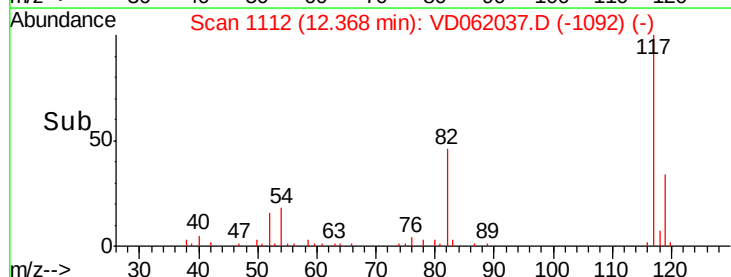
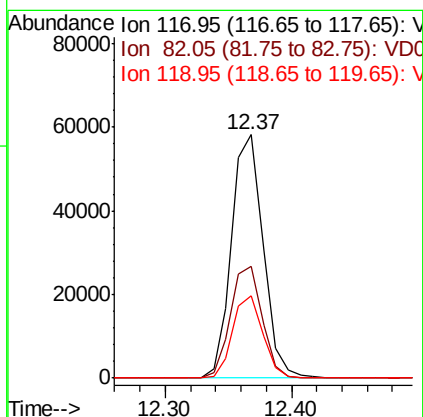
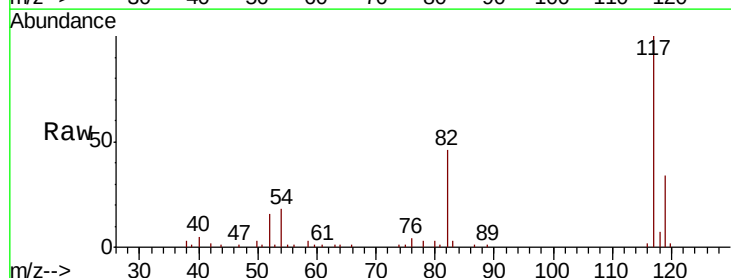
Instrument :
 MSVOA_D
 ClientSampleId :
 MUDDY-BAGSRE

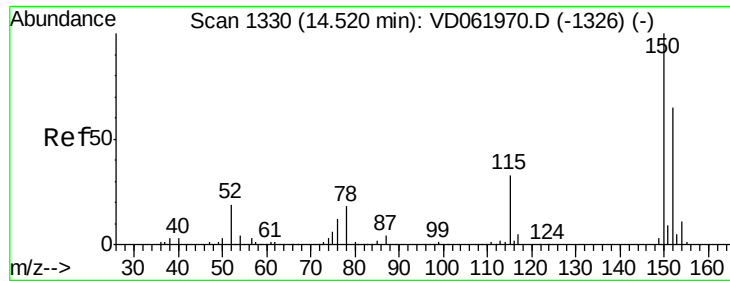
Tgt Ion: 95 Resp: 38228
 Ion Ratio Lower Upper
 95 100
 174 71.0 0.0 181.8
 176 68.0 0.0 174.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.37 min Scan# 1112
 Delta R.T. -0.00 min
 Lab File: VD062037.D
 Acq: 25 Apr 2019 14:24

Tgt Ion: 117 Resp: 100580
 Ion Ratio Lower Upper
 117 100
 82 45.9 36.2 54.2
 119 33.7 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

Instrument :

MSVOA_D

ClientSampleId :

MUDDY-BAGSRE

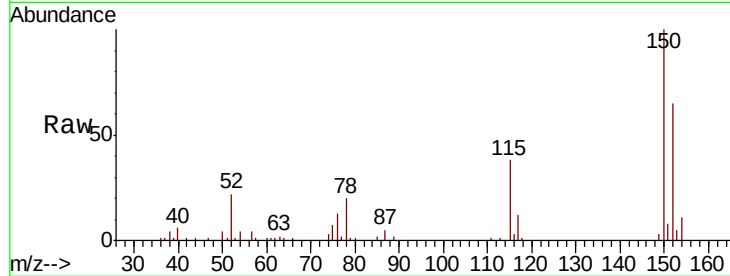
Tgt Ion:152 Resp: 37160

Ion Ratio Lower Upper

152 100

115 59.0 30.9 92.7

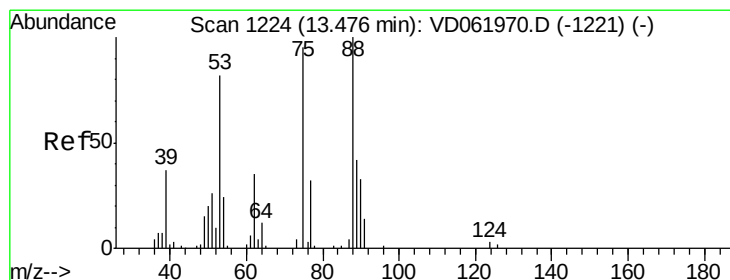
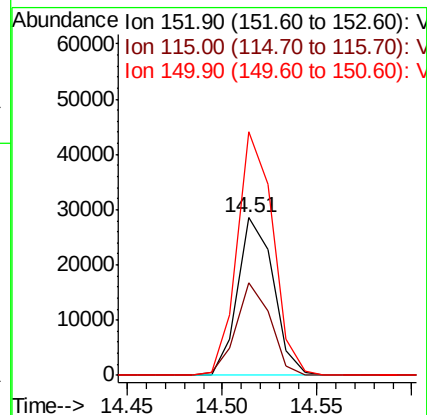
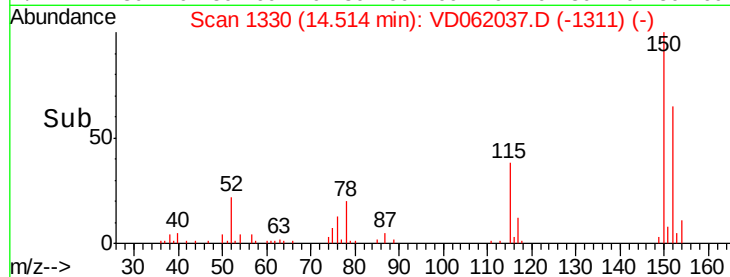
150 154.4 0.0 314.8



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: 103.240 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062037.D

Acq: 25 Apr 2019 14:24

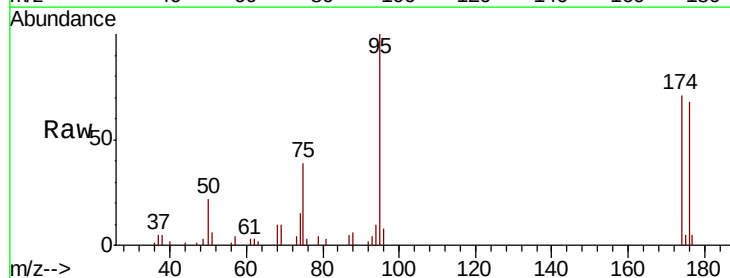
Tgt Ion: 75 Resp: 14763

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

