

Data Path : W:\HPCHEM1\MSVOA_H\DATA\VH092215\
 Data File : VH057102.D
 Acq On : 22 Sep 2015 12:48
 Operator : SY/FY
 Sample : VH0922MBL01
 Misc : 5.00g/10mL//100uL/5mL/MSVOA_H/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleId :
 VH0922MBL01

Quant Time: Sep 23 04:36:19 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:34:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.81	168	977347	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.54	114	1666045	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.71	117	1260071	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.48	152	372897	50.00	ug/l	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		4.79	65	726936	41.65	ug/l	-0.02
Spiked Amount	50.000	Range	66 - 150	Recovery	=	83.30%	
35) Dibromofluoromethane		4.05	113	681034	51.34	ug/l	-0.04
Spiked Amount	50.000	Range	76 - 130	Recovery	=	102.68%	
48) Toluene-d8		7.50	98	1832536	48.04	ug/l	-0.02
Spiked Amount	50.000	Range	78 - 121	Recovery	=	96.08%	
62) 4-Bromofluorobenzene		11.34	95	607234	47.21	ug/l	0.00
Spiked Amount	50.000	Range	70 - 131	Recovery	=	94.42%	

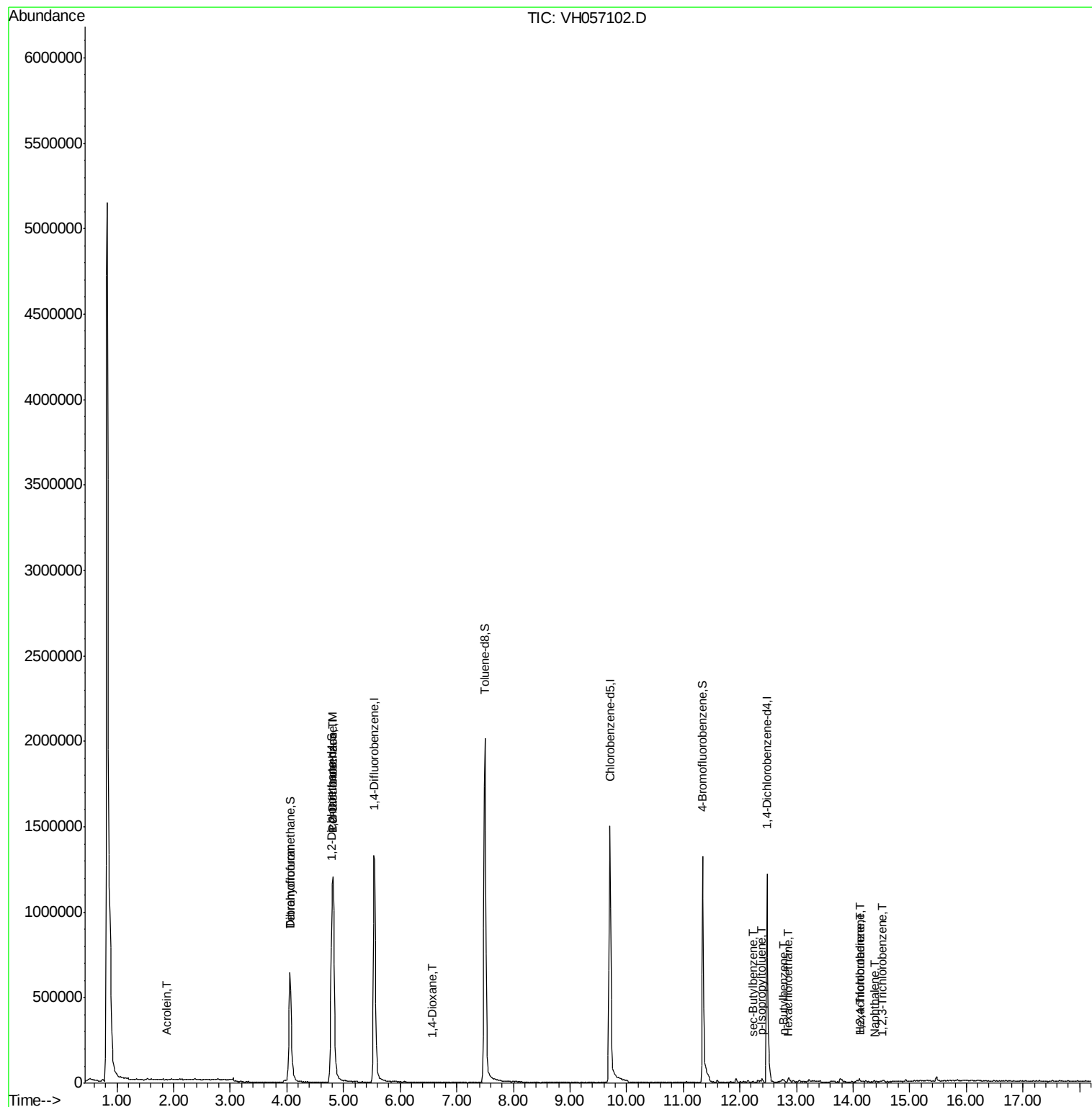
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.28	94	1048	Below Cal	#	1
6) Chloroethane	1.48	64	467	Below Cal	#	1
13) Acrolein	1.88	56	643	0.34	ug/l	88
17) Acetone	2.19	43	2650	Below Cal	#	54
31) Tetrahydrofuran	4.05	42	4236	0.47	ug/l	58
41) 1,2-Dichloroethane	4.81	62	4895	0.25	ug/l	1
53) 1,4-Dioxane	6.56	88	429	2.67	ug/l	18
85) sec-Butylbenzene	12.24	105	4689	0.21	ug/l	90
86) p-Isopropyltoluene	12.38	119	4008	0.23	ug/l	87
89) n-Butylbenzene	12.77	91	6050	0.44	ug/l	78
90) Hexachloroethane	12.85	117	2569	0.71	ug/l	29
93) 1,2,4-Trichlorobenzene	14.12	180	1655	4.41	ug/l	81
94) Hexachlorobutadiene	14.12	225	2867	2.66	ug/l	94
95) Naphthalene	14.38	128	3966	5.23	ug/l	70
96) 1,2,3-Trichlorobenzene	14.52	180	1603	6.69	ug/l	93

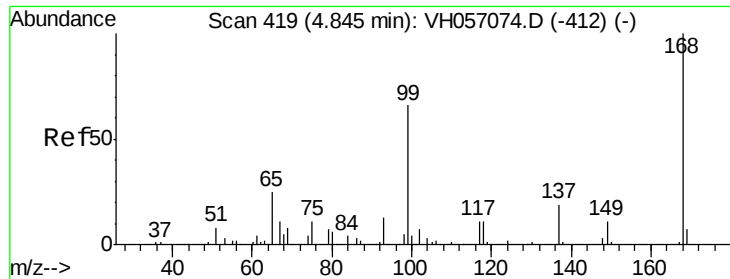
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 23 04:36:19 2015
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Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:34:01 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.81 min Scan# 418

Delta R.T. -0.03 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

Instrument :

MSVOA_H

ClientSampleId :

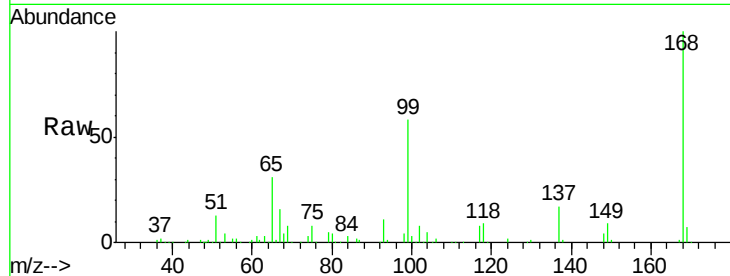
VH0922MBL01

Tgt Ion:168 Resp: 977347

Ion Ratio Lower Upper

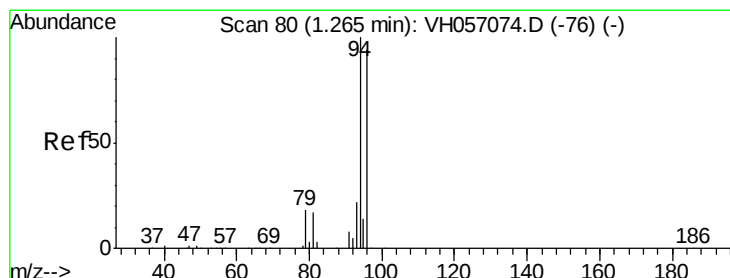
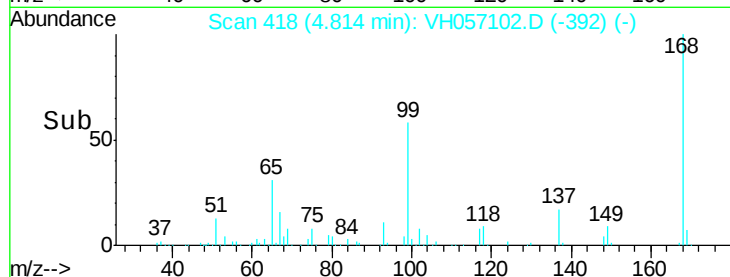
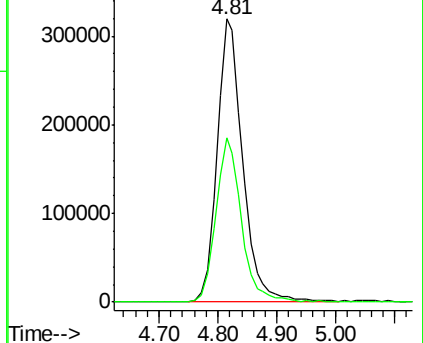
168 100

99 58.2 55.8 83.6



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VH0



#5

Bromomethane

Concen: Below Cal

RT: 1.28 min Scan# 81

Delta R.T. 0.02 min

Lab File: VH057102.D

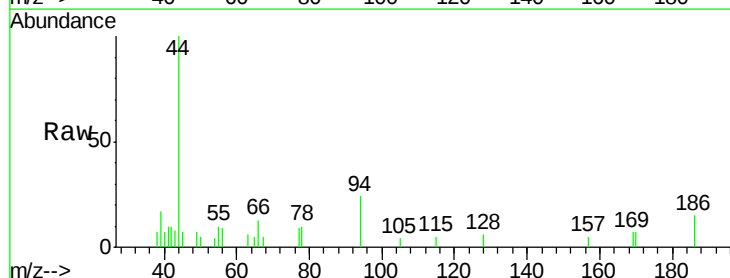
Acq: 22 Sep 2015 12:48

Tgt Ion: 94 Resp: 1048

Ion Ratio Lower Upper

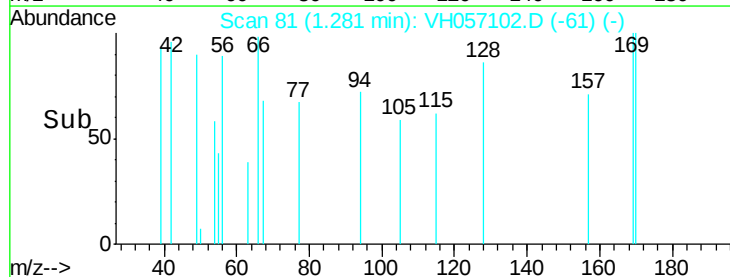
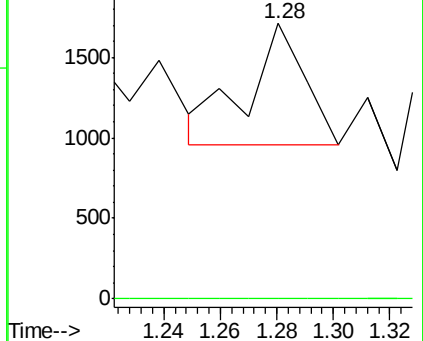
94 100

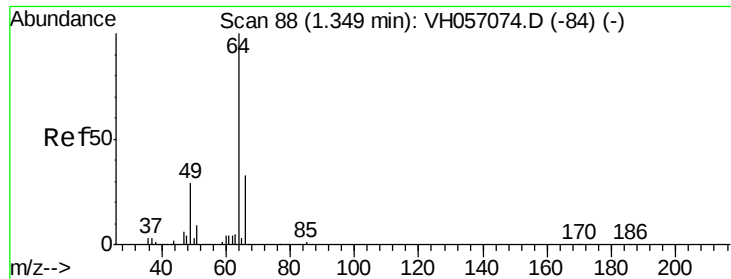
96 0.0 78.5 117.7#



Abundance Ion 94.00 (93.70 to 94.70): VH0

Ion 96.00 (95.70 to 96.70): VH0





#6

Chloroethane

Concen: Below Cal

RT: 1.48 min Scan# 100

Delta R.T. 0.13 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

Instrument :

MSVOA_H

ClientSampleId :

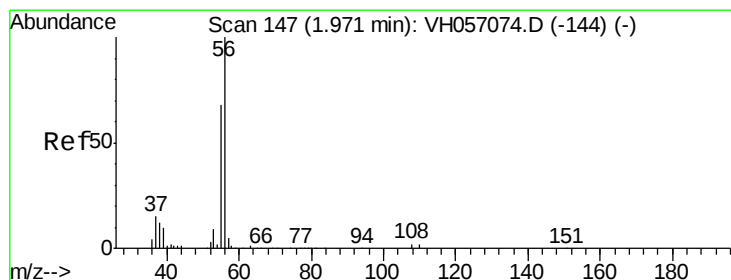
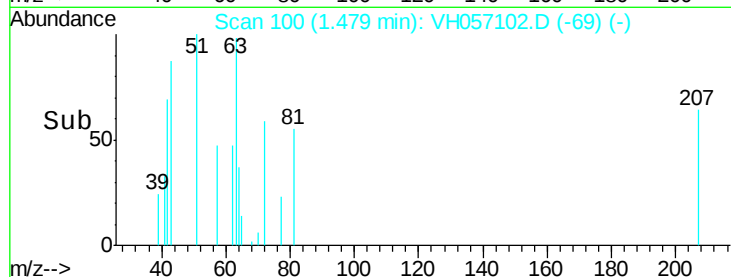
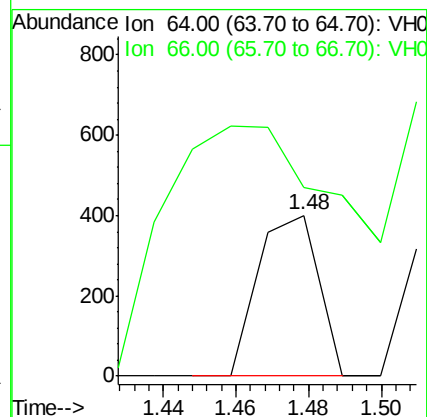
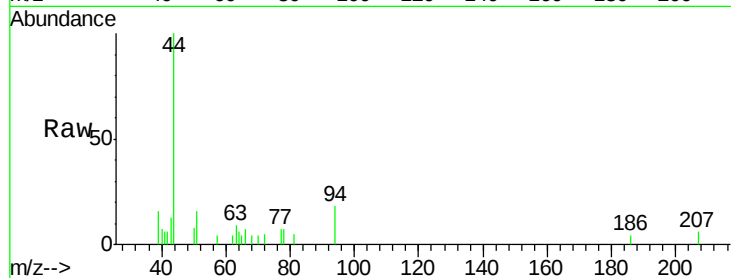
VH0922MBL01

Tgt Ion: 64 Resp: 467

Ion Ratio Lower Upper

64 100

66 117.0 25.2 37.8#



#13

Acrolein

Concen: 0.34 ug/l

RT: 1.88 min Scan# 138

Delta R.T. -0.09 min

Lab File: VH057102.D

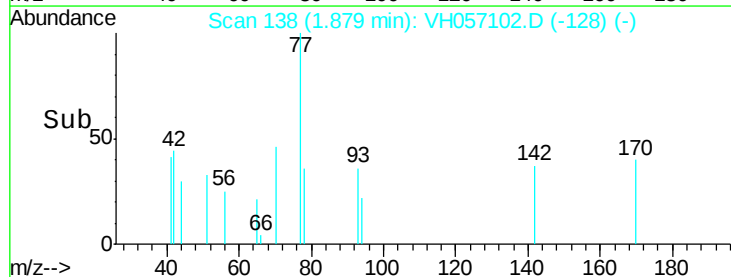
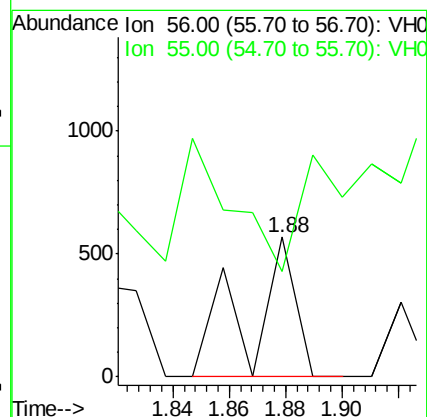
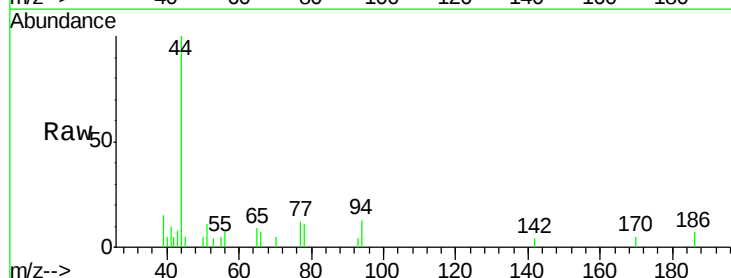
Acq: 22 Sep 2015 12:48

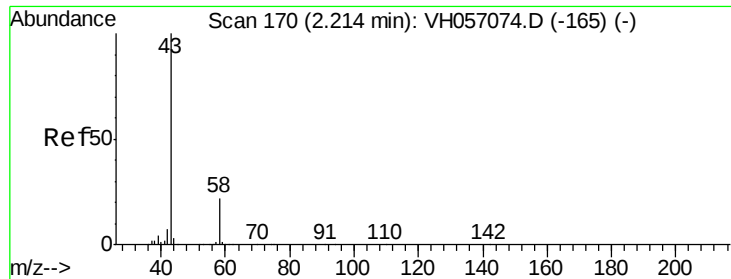
Tgt Ion: 56 Resp: 643

Ion Ratio Lower Upper

56 100

55 75.4 52.9 79.3





#17

Acetone

Concen: Below Cal

RT: 2.19 min Scan# 168

Delta R.T. -0.02 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

Instrument :

MSVOA_H

ClientSampleId :

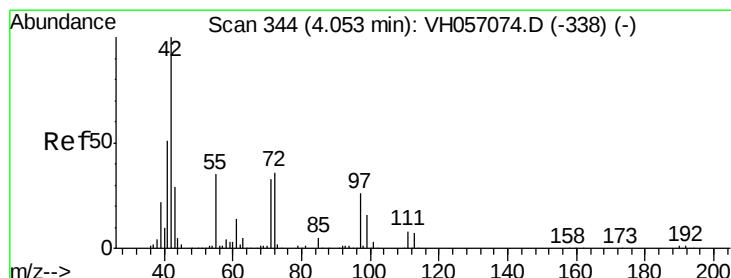
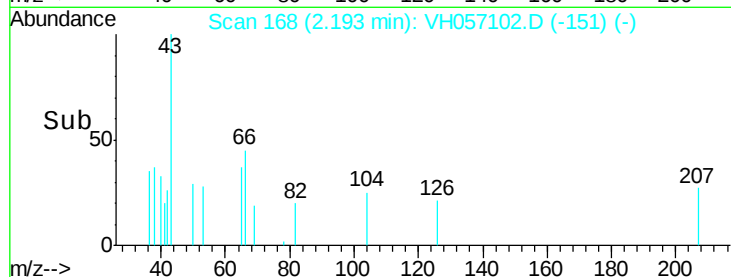
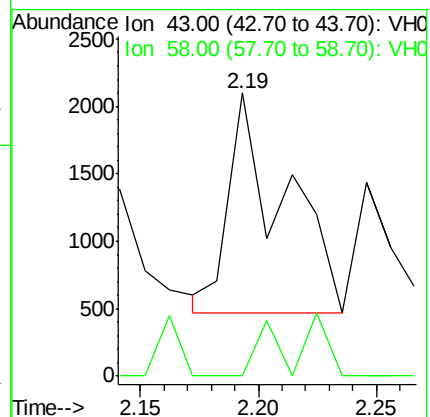
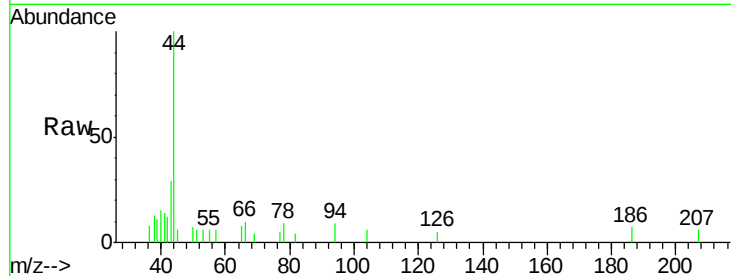
VH0922MBL01

Tgt Ion: 43 Resp: 2650

Ion Ratio Lower Upper

43 100

58 0.0 17.7 26.5#



#31

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 4.05 min Scan# 345

Delta R.T. -0.00 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

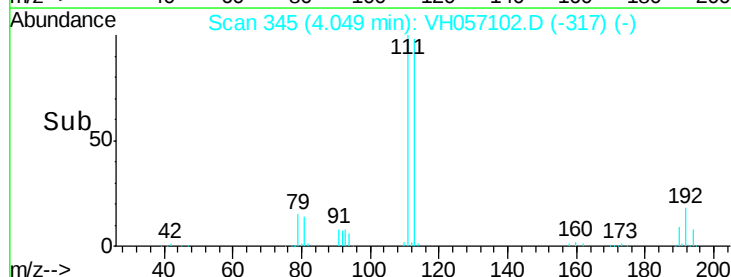
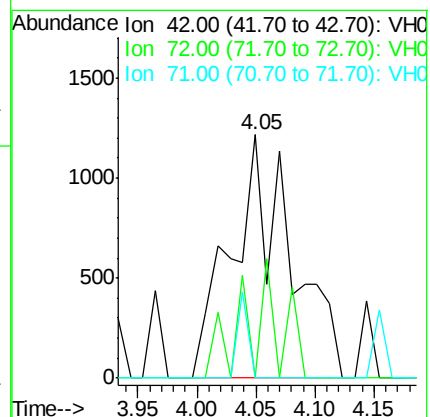
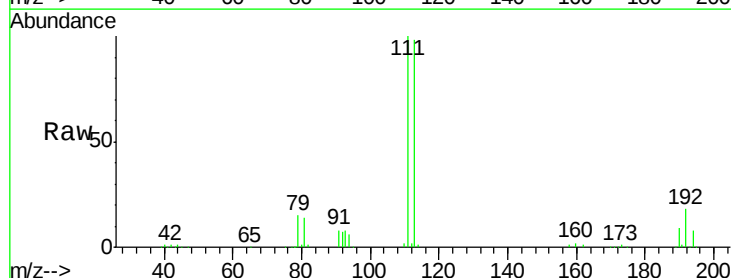
Tgt Ion: 42 Resp: 4236

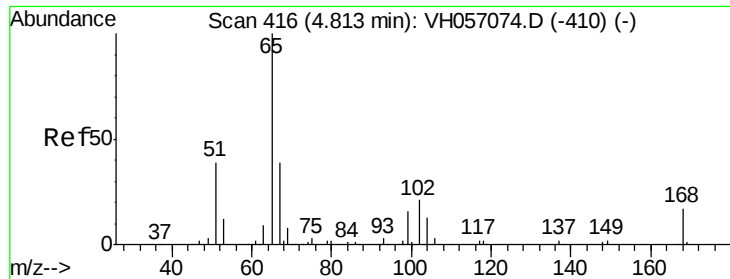
Ion Ratio Lower Upper

42 100

72 16.3 25.5 38.3#

71 0.0 25.4 38.0#





#33

1,2-Dichloroethane-d4

Concen: 41.65 ug/l

RT: 4.79 min Scan# 416

Delta R.T. -0.02 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

Instrument :

MSVOA_H

ClientSampled :

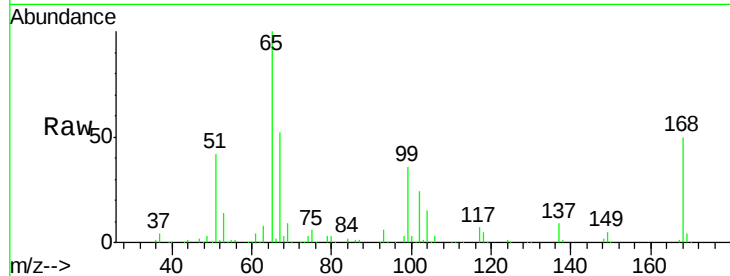
VH0922MBL01

Tgt Ion: 65 Resp: 726936

Ion Ratio Lower Upper

65 100

67 51.6 43.2 64.8



Abundance Ion 65.00 (64.70 to 65.70): VH0

Ion 67.00 (66.70 to 67.70): VH0

250000

200000

150000

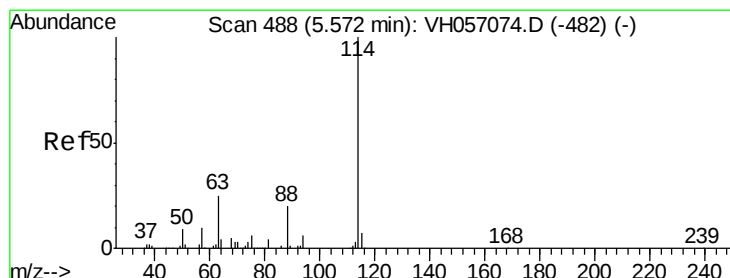
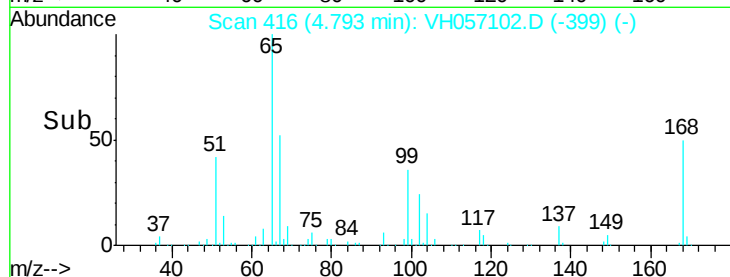
100000

50000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.54 min Scan# 487

Delta R.T. -0.03 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

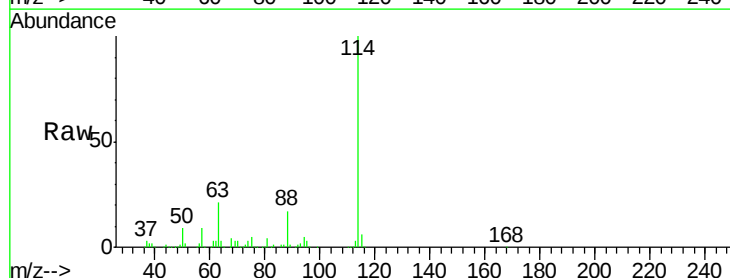
Tgt Ion: 114 Resp: 1666045

Ion Ratio Lower Upper

114 100

63 21.5 19.0 28.4

88 17.1 15.7 23.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VH0

Ion 88.00 (87.70 to 88.70): VH0

800000

600000

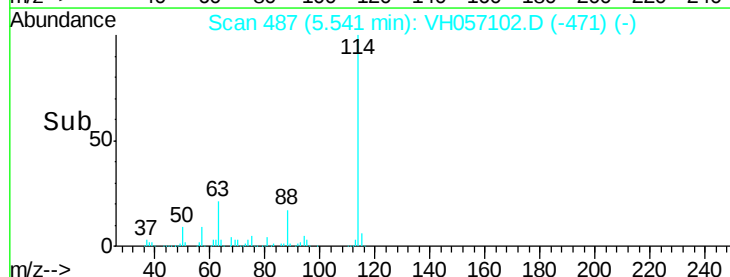
400000

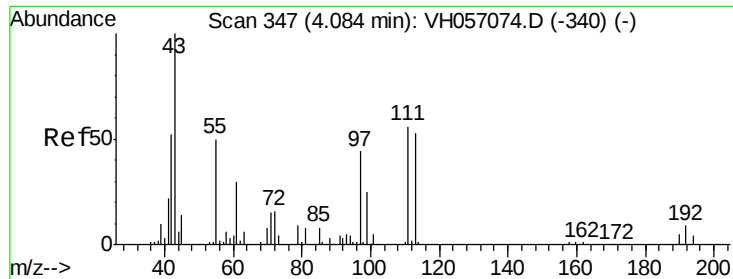
200000

0

5.40 5.50 5.60 5.70

Time-->

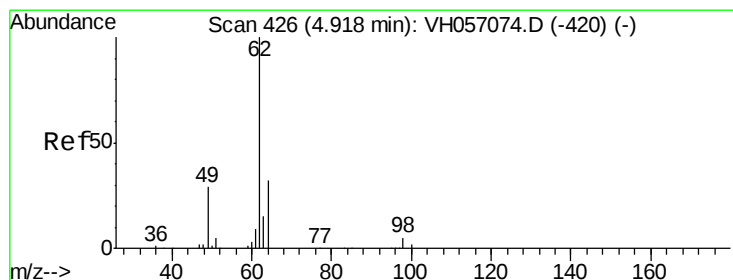
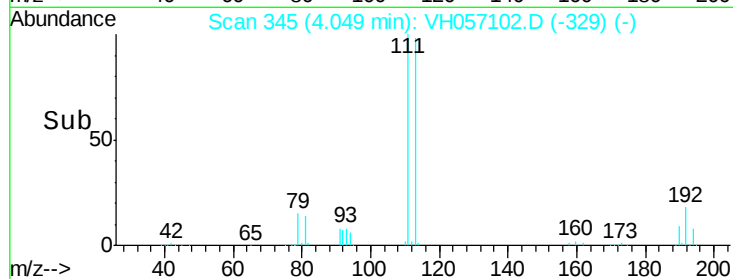
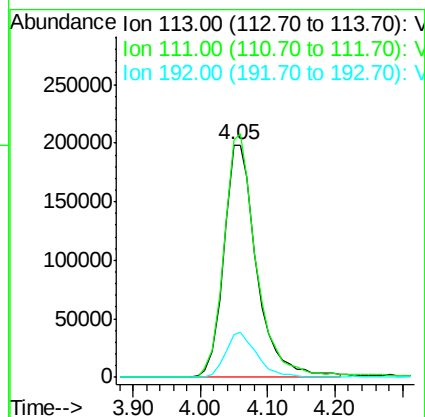
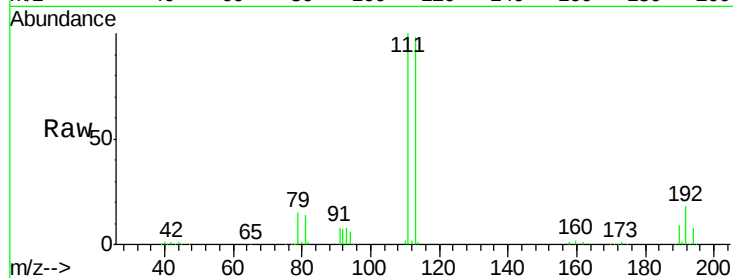




#35
 Dibromofluoromethane
 Concen: 51.34 ug/l
 RT: 4.05 min Scan# 345
 Delta R.T. -0.04 min
 Lab File: VH057102.D
 Acq: 22 Sep 2015 12:48

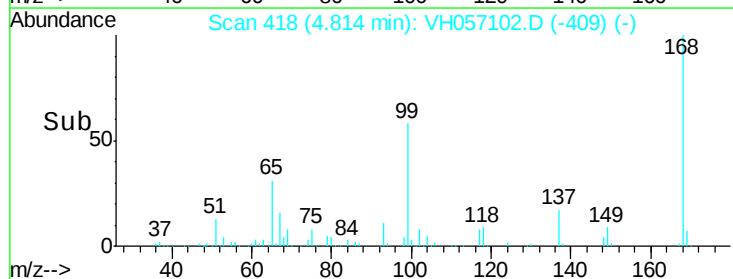
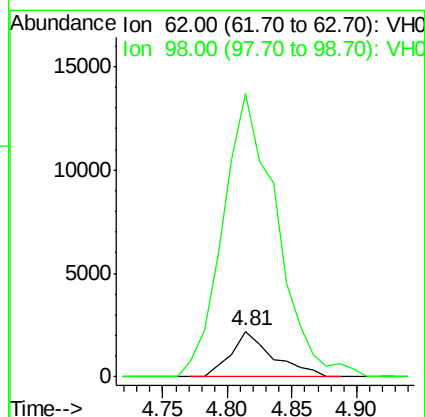
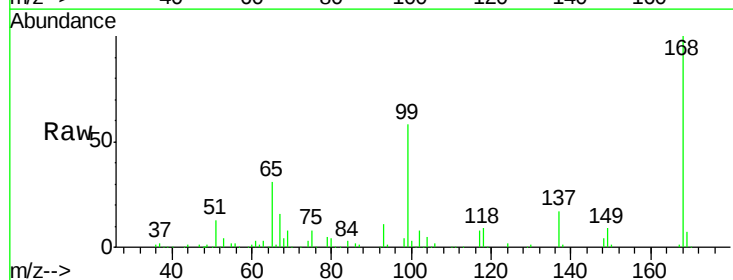
Instrument :
 MSVOA_H
 ClientSampleID :
 VH0922MBL01

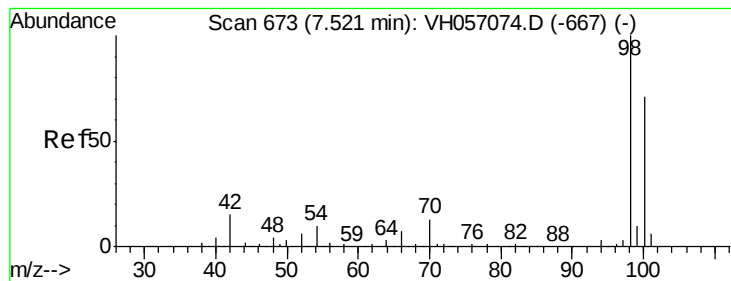
Tgt Ion: 113 Resp: 681034
 Ion Ratio Lower Upper
 113 100
 111 101.9 84.0 126.0
 192 18.1 13.6 20.4



#41
 1,2-Dichloroethane
 Concen: 0.25 ug/l
 RT: 4.81 min Scan# 418
 Delta R.T. -0.10 min
 Lab File: VH057102.D
 Acq: 22 Sep 2015 12:48

Tgt Ion: 62 Resp: 4895
 Ion Ratio Lower Upper
 62 100
 98 617.1 7.3 10.9#





#48

Toluene-d8

Concen: 48.04 ug/l

RT: 7.50 min Scan# 673

Delta R.T. -0.02 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

Instrument :

MSVOA_H

ClientSampleId :

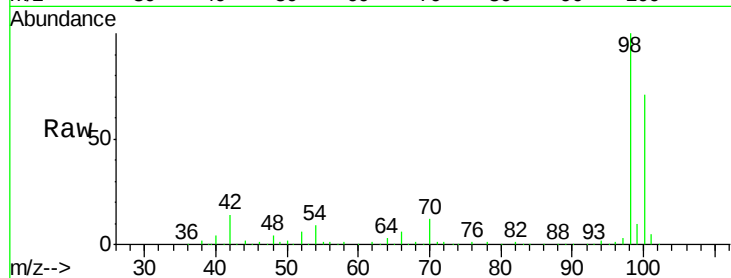
VH0922MBL01

Tgt Ion: 98 Resp: 1832536

Ion Ratio Lower Upper

98 100

100 71.1 56.7 85.1



Abundance Ion 98.00 (97.70 to 98.70): VH0

Ion 100.00 (99.70 to 100.70): VH

7.50

800000

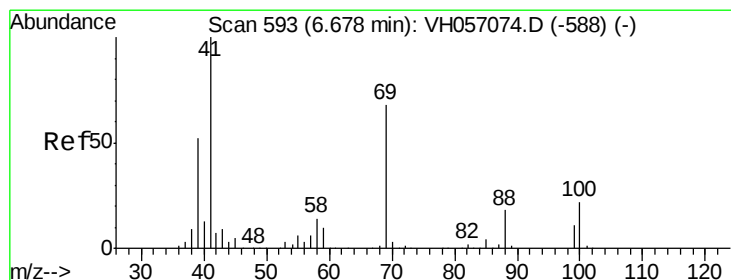
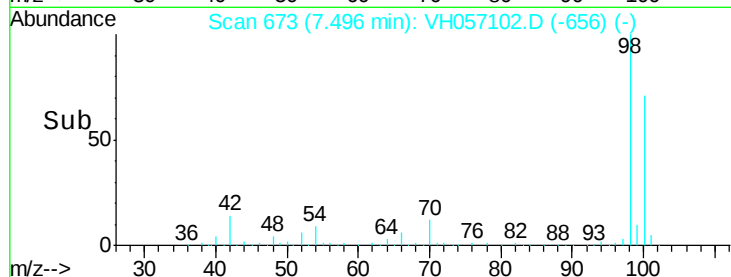
600000

400000

200000

0

Time-->



#53

1,4-Dioxane

Concen: 2.67 ug/l

RT: 6.56 min Scan# 584

Delta R.T. -0.12 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

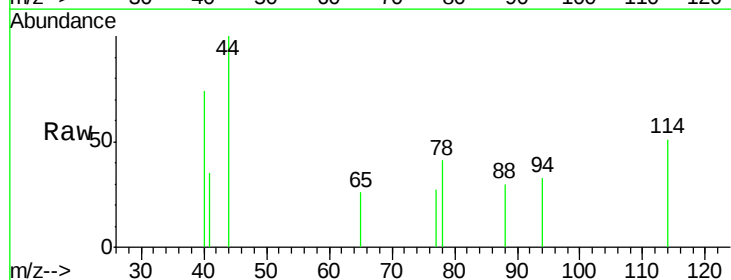
Tgt Ion: 88 Resp: 429

Ion Ratio Lower Upper

88 100

43 0.0 39.6 59.4#

58 0.0 61.4 92.2#



Abundance Ion 88.00 (87.70 to 88.70): VH0

Ion 43.00 (42.70 to 43.70): VH0

Ion 58.00 (57.70 to 58.70): VH0

500

400

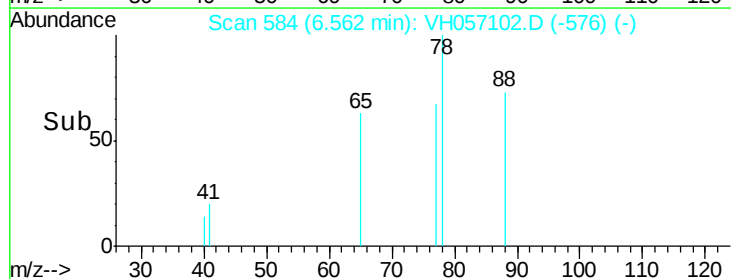
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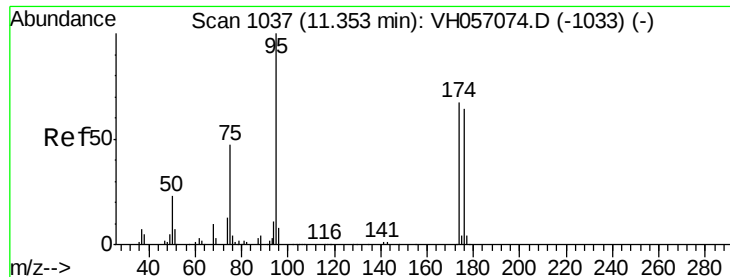
200

100

0

Time-->

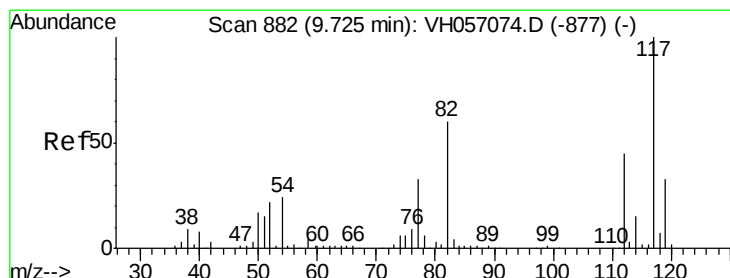
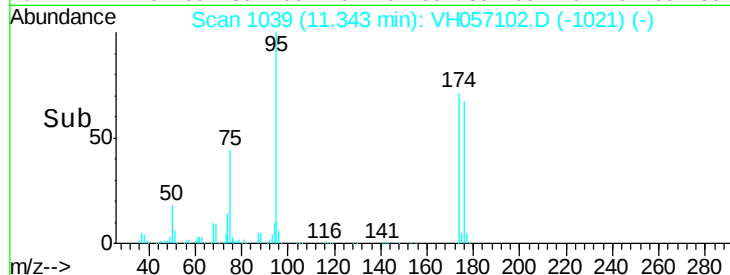
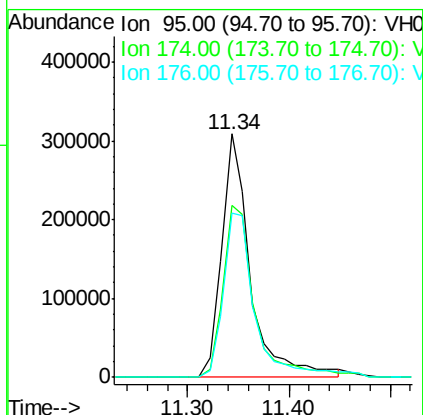
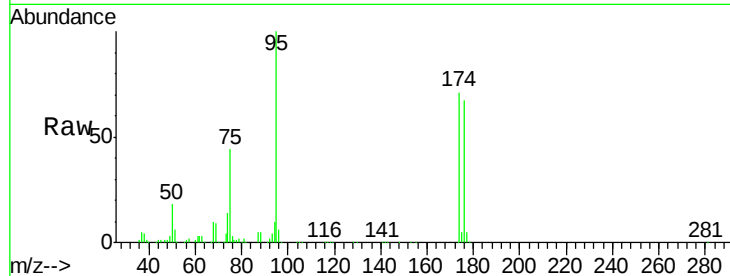




#62
4-Bromofluorobenzene
Concen: 47.21 ug/l
RT: 11.34 min Scan# 1039
Delta R.T. -0.01 min
Lab File: VH057102.D
Acq: 22 Sep 2015 12:48

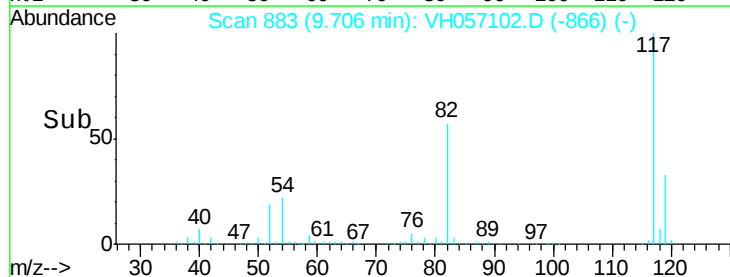
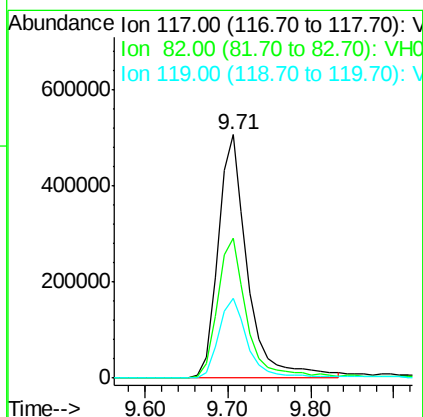
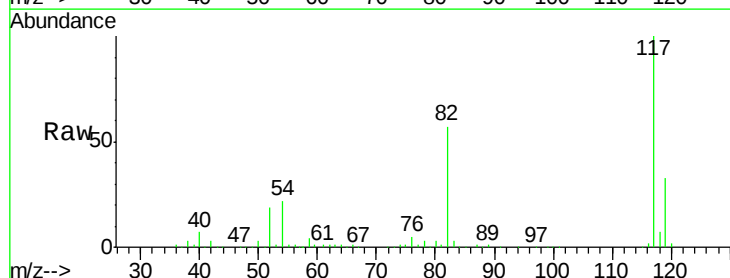
Instrument :
MSVOA_H
ClientSampleId :
VH0922MBL01

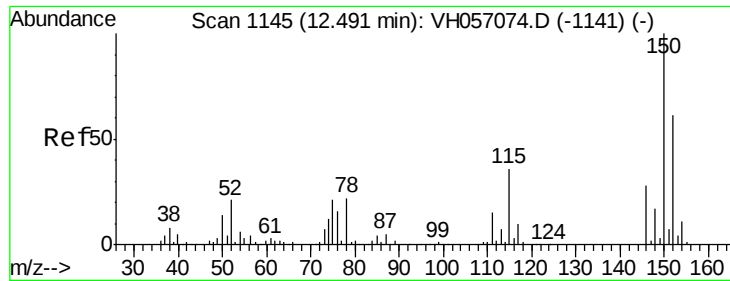
Tgt Ion: 95 Resp: 607234
Ion Ratio Lower Upper
95 100
174 70.5 58.4 87.6
176 67.3 54.3 81.5



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.71 min Scan# 883
Delta R.T. -0.02 min
Lab File: VH057102.D
Acq: 22 Sep 2015 12:48

Tgt Ion: 117 Resp: 1260071
Ion Ratio Lower Upper
117 100
82 57.4 51.0 76.6
119 32.8 26.7 40.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.48 min Scan# 1147

Delta R.T. -0.01 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

Instrument :

MSVOA_H

ClientSampleId :

VH0922MBL01

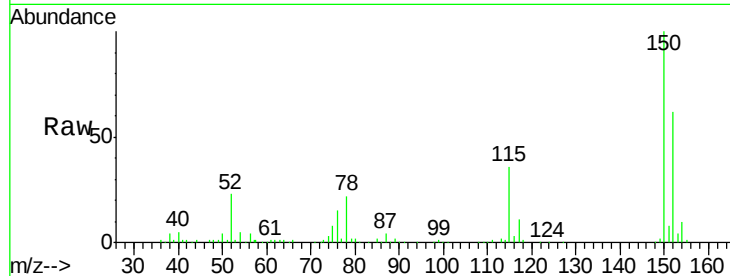
Tgt Ion:152 Resp: 372897

Ion Ratio Lower Upper

152 100

115 57.5 28.2 84.6

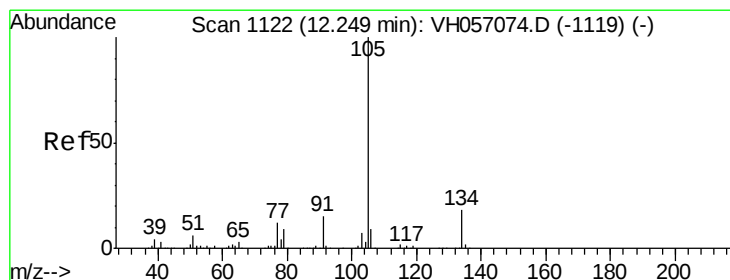
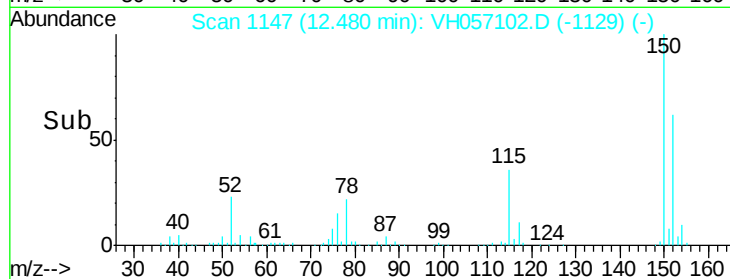
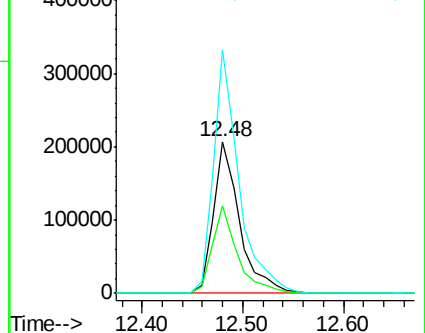
150 160.2 0.0 332.0



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#85

sec-Butylbenzene

Concen: 0.21 ug/l

RT: 12.24 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VH057102.D

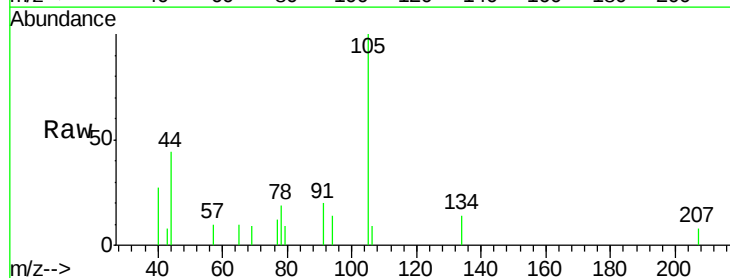
Acq: 22 Sep 2015 12:48

Tgt Ion:105 Resp: 4689

Ion Ratio Lower Upper

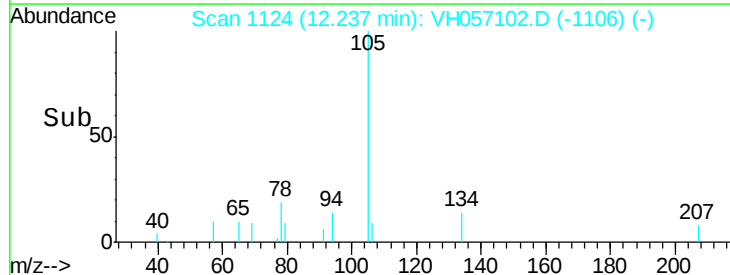
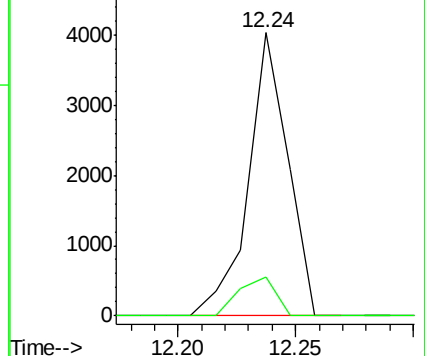
105 100

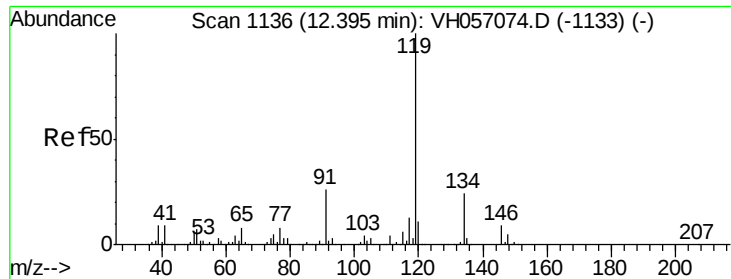
134 13.7 9.1 27.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

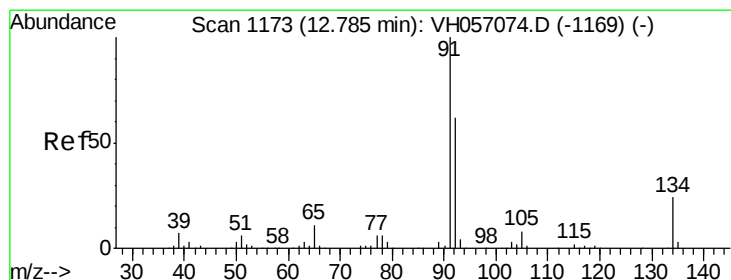
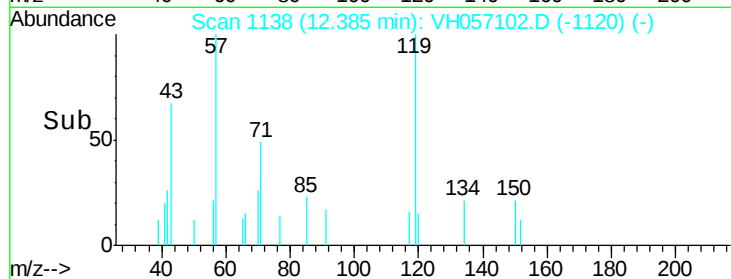
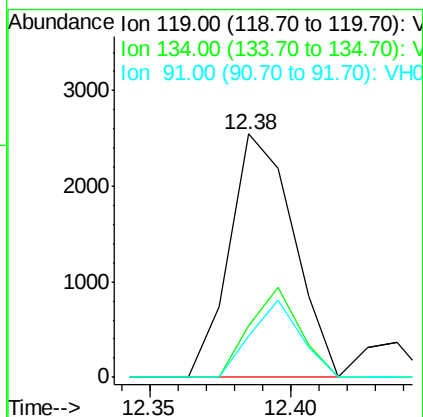
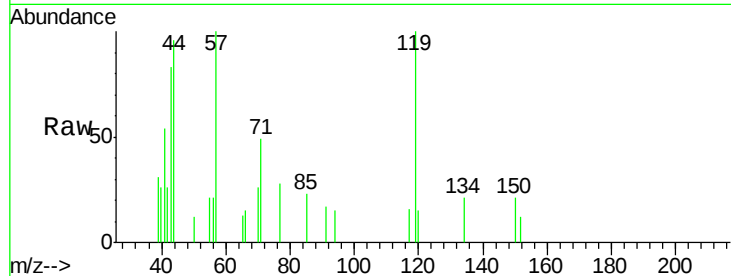




#86
p-Isopropyltoluene
Concen: 0.23 ug/l
RT: 12.38 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VH057102.D
Acq: 22 Sep 2015 12:48

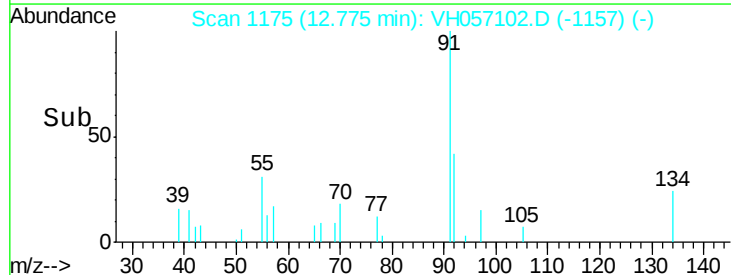
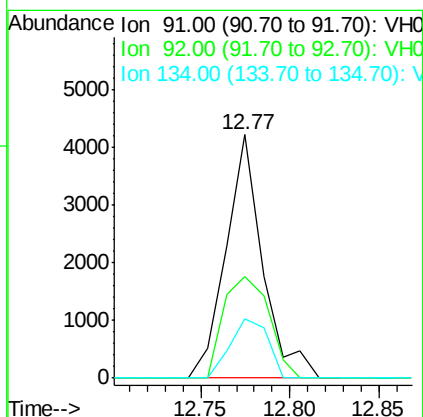
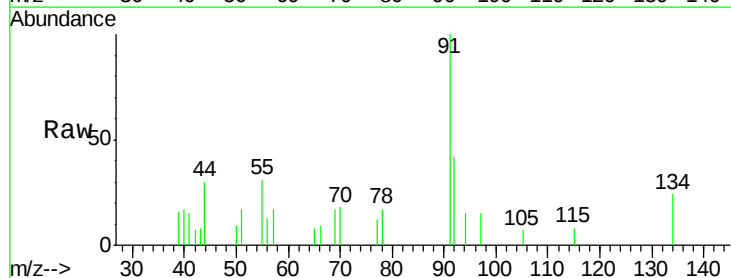
Instrument :
MSVOA_H
ClientSampleId :
VH0922MBL01

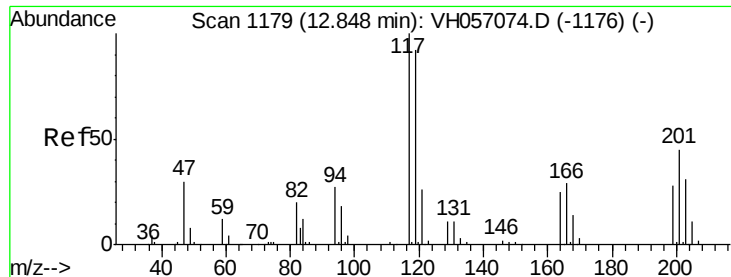
Tgt Ion: 119 Resp: 4008
Ion Ratio Lower Upper
119 100
134 21.2 13.0 38.9
91 16.9 12.5 37.5



#89
n-Butylbenzene
Concen: 0.44 ug/l
RT: 12.77 min Scan# 1175
Delta R.T. -0.01 min
Lab File: VH057102.D
Acq: 22 Sep 2015 12:48

Tgt Ion: 91 Resp: 6050
Ion Ratio Lower Upper
91 100
92 41.6 31.3 93.9
134 24.3 10.5 31.6

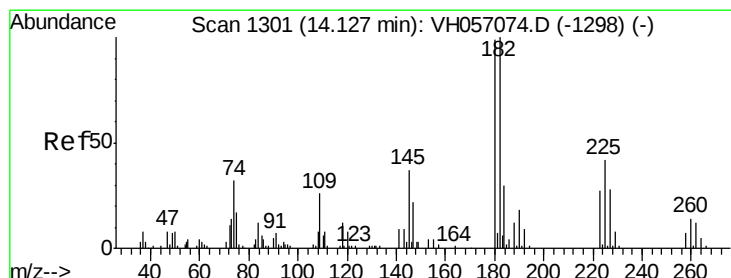
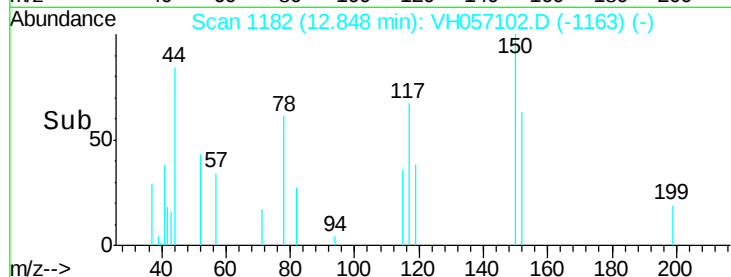
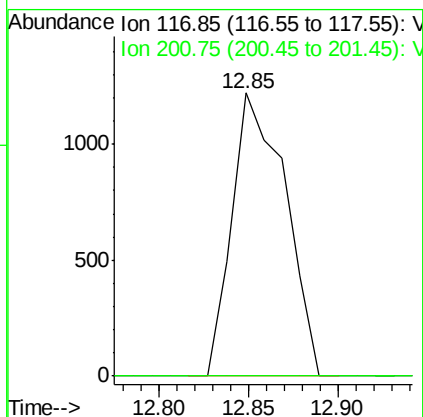
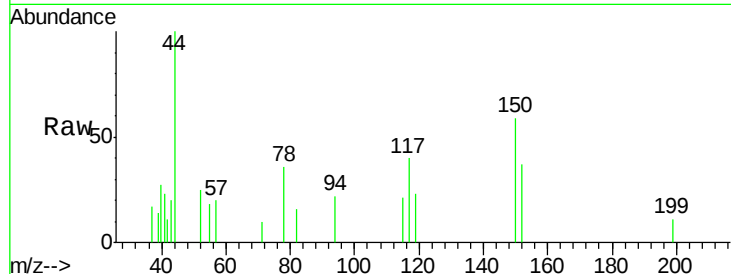




#90
Hexachloroethane
Concen: 0.71 ug/l
RT: 12.85 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VH057102.D
Acq: 22 Sep 2015 12:48

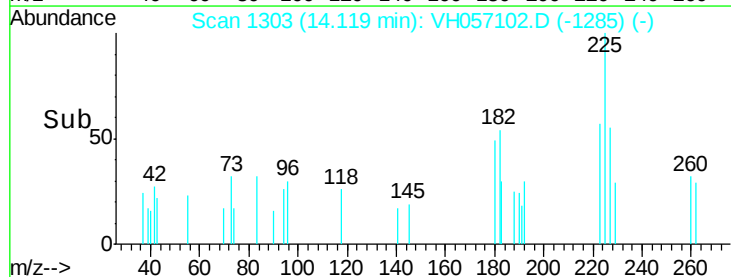
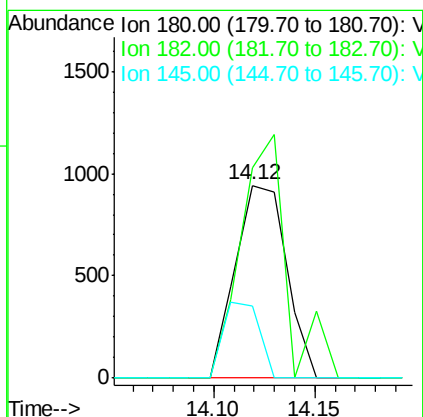
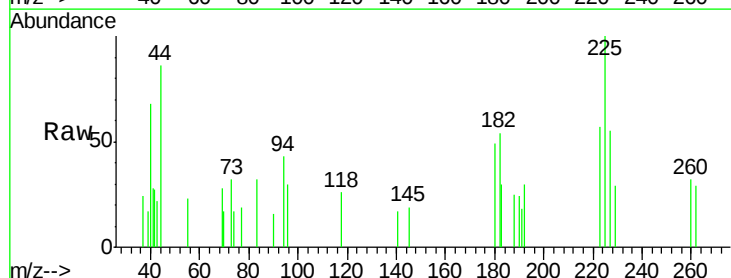
Instrument :
MSVOA_H
ClientSampled :
VH0922MBL01

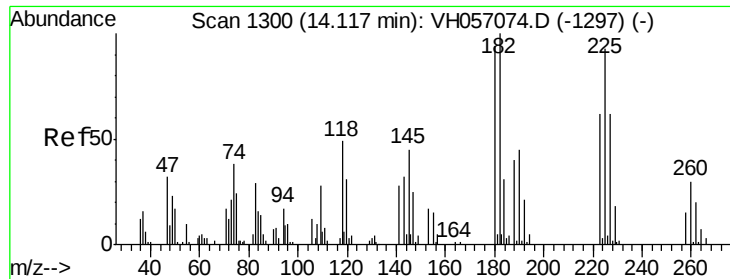
Tgt Ion:117 Resp: 2569
Ion Ratio Lower Upper
117 100
201 0.0 14.0 80.8#



#93
1,2,4-Trichlorobenzene
Concen: 4.41 ug/l
RT: 14.12 min Scan# 1303
Delta R.T. -0.01 min
Lab File: VH057102.D
Acq: 22 Sep 2015 12:48

Tgt Ion:180 Resp: 1655
Ion Ratio Lower Upper
180 100
182 108.9 43.0 129.2
145 37.7 17.3 52.0





#94

Hexachlorobutadiene

Concen: 2.66 ug/l

RT: 14.12 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

Instrument :

MSVOA_H

ClientSampled :

VH0922MBL01

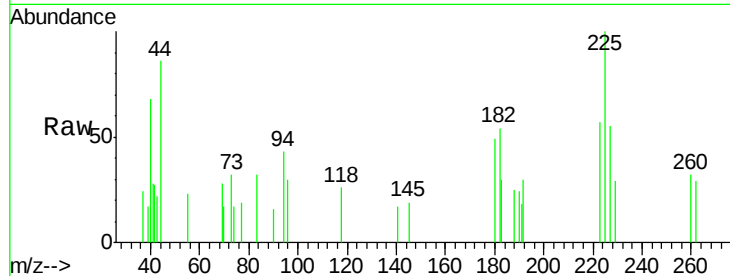
Tgt Ion:225 Resp: 2867

Ion Ratio Lower Upper

225 100

223 57.4 30.3 90.8

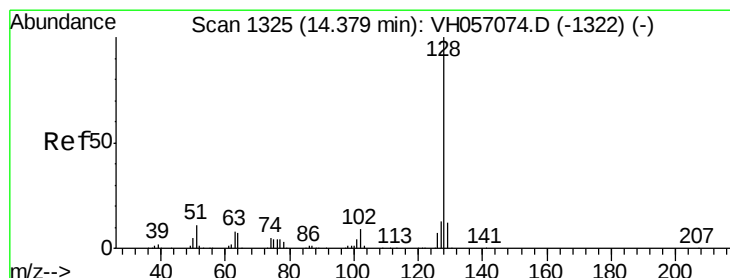
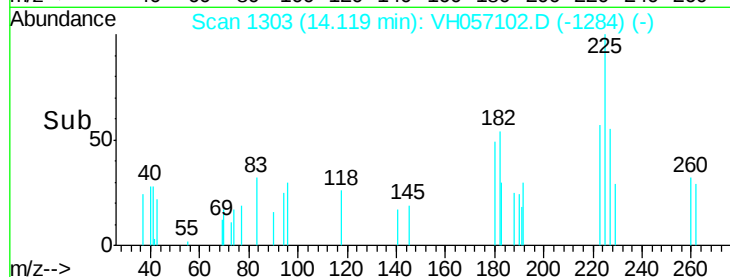
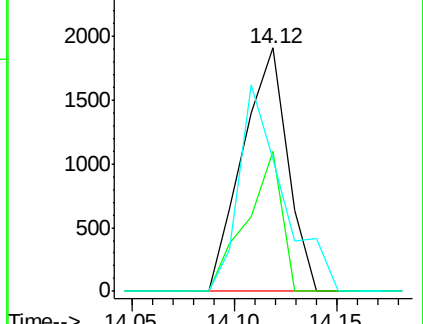
227 54.6 30.5 91.5



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#95

Naphthalene

Concen: 5.23 ug/l

RT: 14.38 min Scan# 1328

Delta R.T. 0.00 min

Lab File: VH057102.D

Acq: 22 Sep 2015 12:48

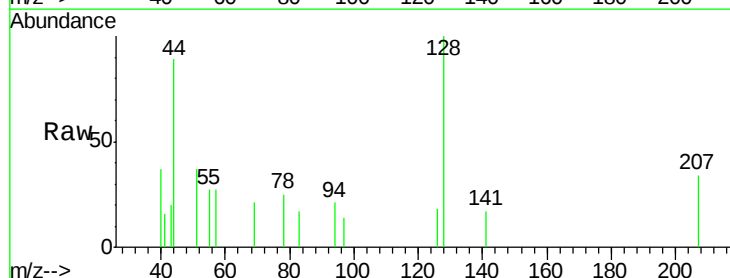
Tgt Ion:128 Resp: 3966

Ion Ratio Lower Upper

128 100

127 0.0 9.6 14.4#

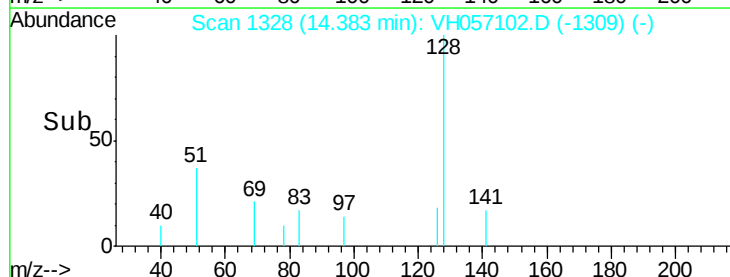
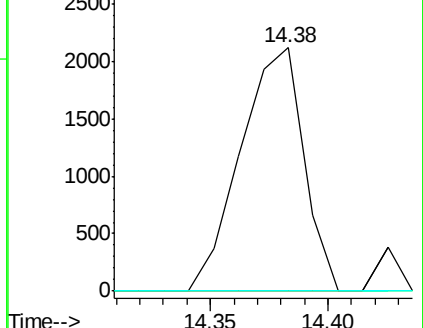
129 0.0 8.7 13.1#

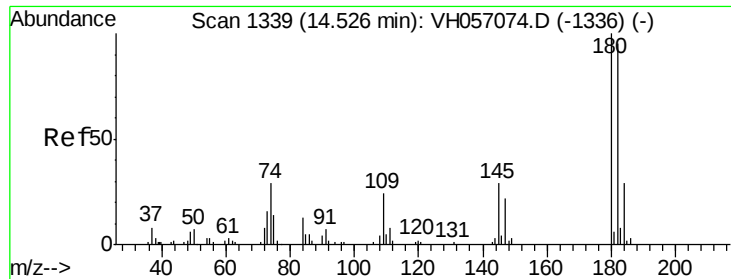


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

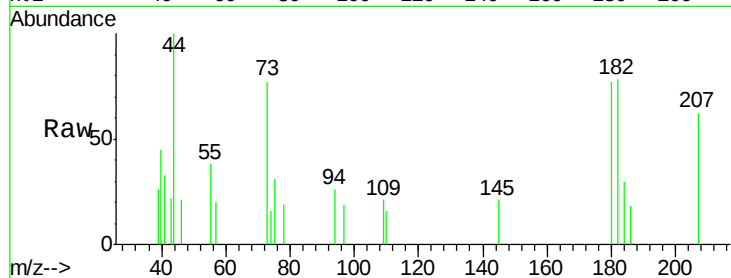




#96
 1,2,3-Trichlorobenzene
 Concen: 6.69 ug/l
 RT: 14.52 min Scan# 1341
 Delta R.T. -0.01 min
 Lab File: VH057102.D
 Acq: 22 Sep 2015 12:48

Instrument :
 MSVOA_H
 ClientSampleId :
 VH0922MBL01

Tgt Ion:180 Resp: 1603
 Ion Ratio Lower Upper
 180 100
 182 101.8 47.1 141.3
 145 27.7 12.5 37.5



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

