

Data File : VX001685.D
Acq On : 12 May 2018 23:48
Operator : JC/MD
Sample : PB109200ZHE#01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB109200ZHE#01

Quant Time: May 14 06:08:29 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
Quant Title : SW846 8260
QLast Update : Sun May 06 07:59:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	267440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	370029	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	326039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	177609	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	178314	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
35) Dibromofluoromethane	5.51	113	142885	43.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.82%	
50) Toluene-d8	8.72	98	513910	42.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.56%	
62) 4-Bromofluorobenzene	11.14	95	164114	35.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.16%	

Target Compounds				Qvalue		
5) Bromomethane	1.66	94	1460	Below Cal		98
6) Chloroethane	1.57	64	1686	0.70 ug/l	#	56
10) Methyl Iodide	2.52	142	1963	0.42 ug/l		97
11) Tert butyl alcohol	3.03	59	1251	1.54 ug/l	#	72
13) Acrolein	2.30	56	74	Below Cal	#	1
16) Acetone	2.45	43	6631	3.80 ug/l		100
18) Methyl Acetate	2.78	43	21709	4.73 ug/l		100
20) Methylene Chloride	2.86	84	2525	0.73 ug/l	#	93
25) 2-Butanone	4.72	43	1980	0.78 ug/l		91
29) Tetrahydrofuran	5.18	42	759	0.47 ug/l	#	73
31) Cyclohexane	5.67	56	4677	0.95 ug/l	#	1
36) 1,1-Dichloropropene	5.67	75	16391	3.48 ug/l	#	49
38) Carbon Tetrachloride	5.67	117	23391	4.66 ug/l	#	15
54) cis-1,3-Dichloropropene	9.04	75	53	2.27 ug/l	#	1
76) 1,2,3-Trichloropropane	11.14	75	79807	22.16 ug/l	#	38
81) trans-1,4-Dichloro-2-buten	11.14	75	79807	68.87 ug/l	#	7

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

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Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#01

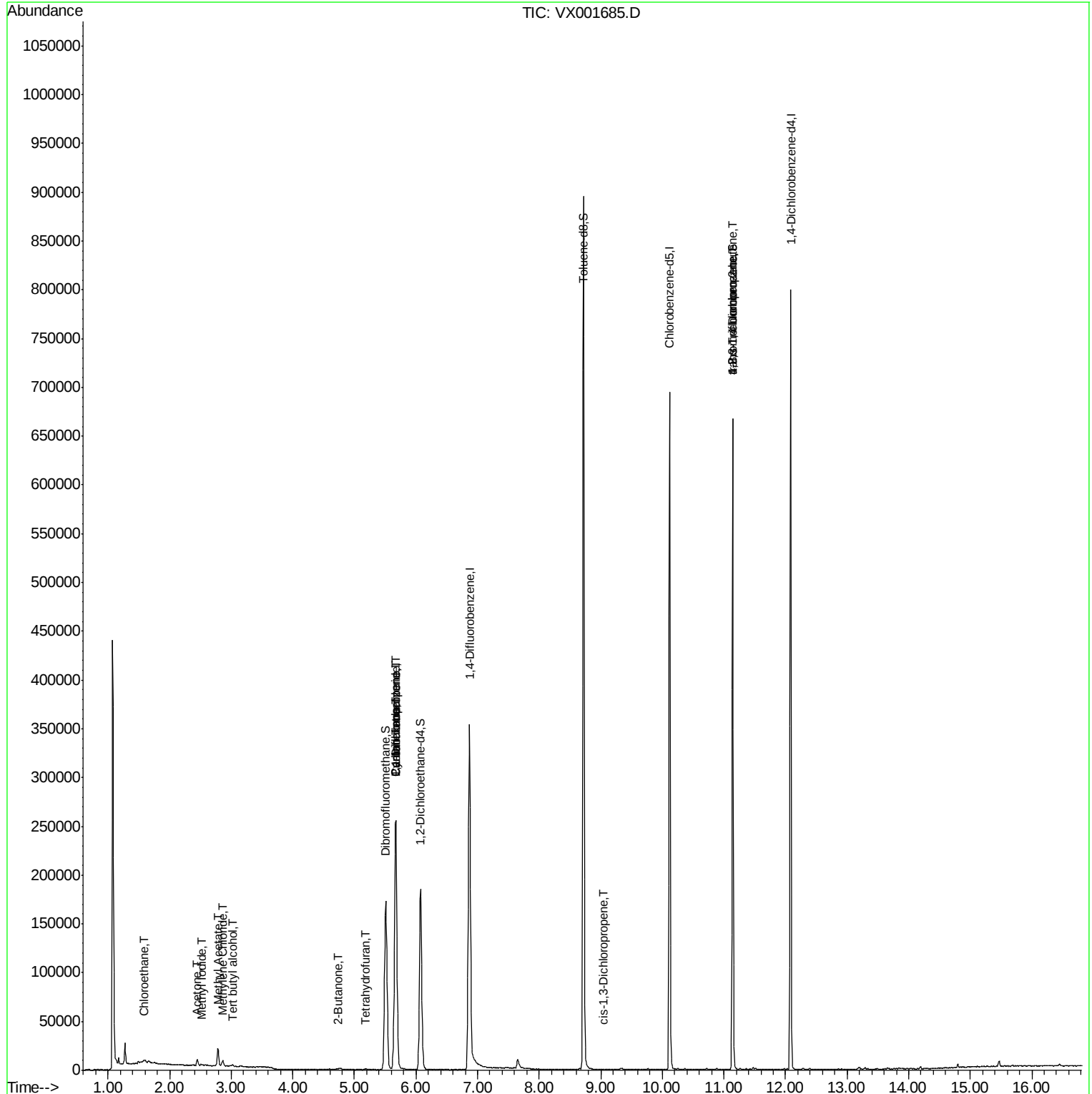
Quant Time: May 14 06:08:29 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M

Quant Title : SW846 8260

QLast Update : Sun May 06 07:59:25 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

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Instrument :

MSVOA_X

ClientSampleId :

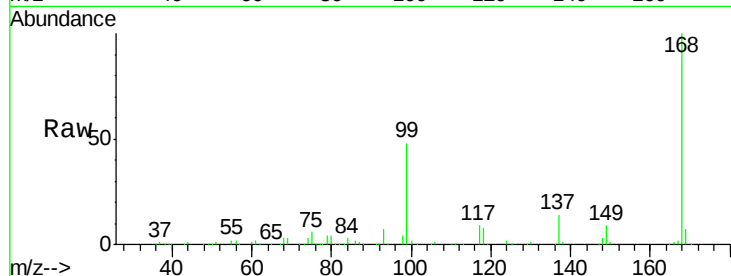
PB109200ZHE#01

Tgt Ion: 168 Resp: 267440

Ion Ratio Lower Upper

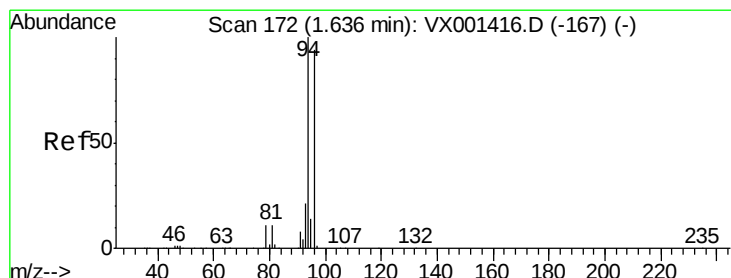
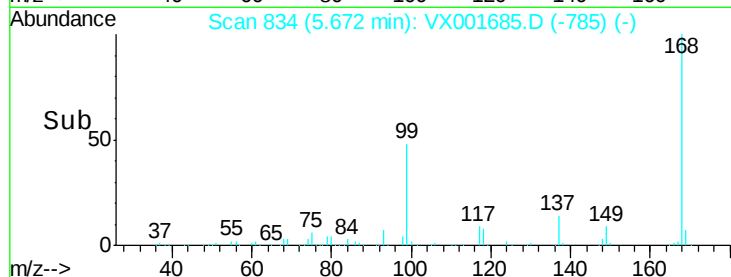
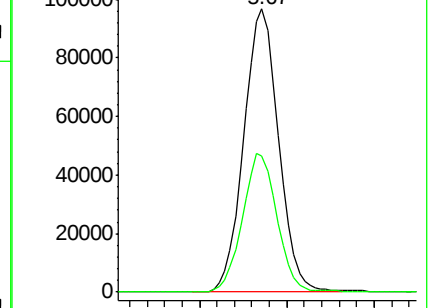
168 100

99 48.0 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001685.D

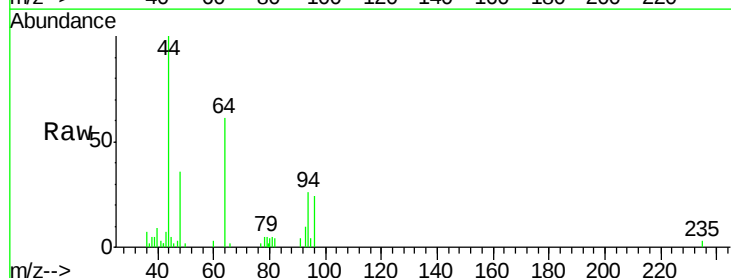
Acq: 12 May 2018 23:48

Tgt Ion: 94 Resp: 1460

Ion Ratio Lower Upper

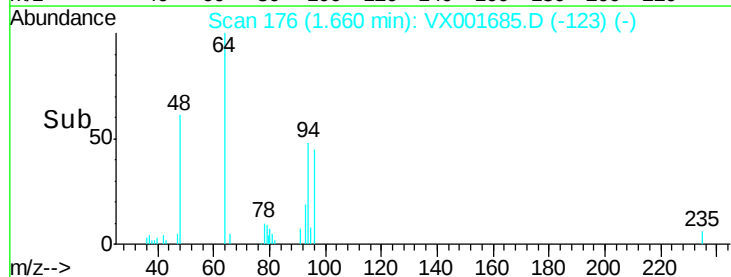
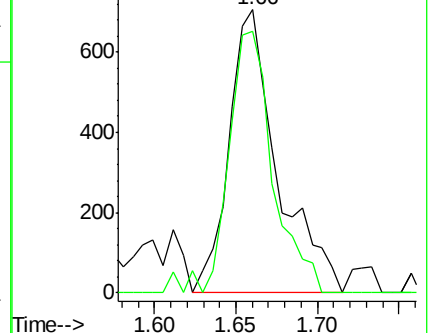
94 100

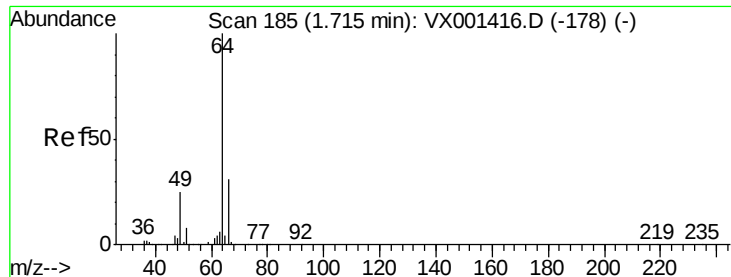
96 92.3 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.70 ug/l

RT: 1.57 min Scan# 162

Delta R.T. -0.14 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

MSVOA_X

ClientSampleId :

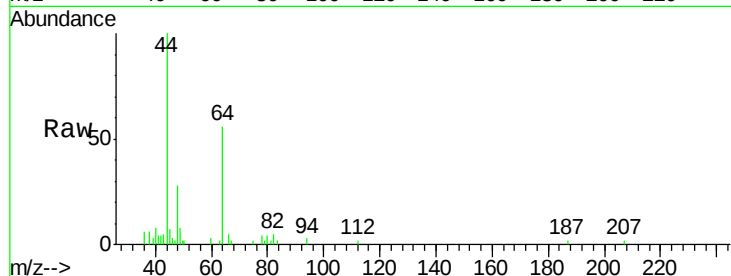
PB109200ZHE#01

Tgt Ion: 64 Resp: 1686

Ion Ratio Lower Upper

64 100

66 7.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.57

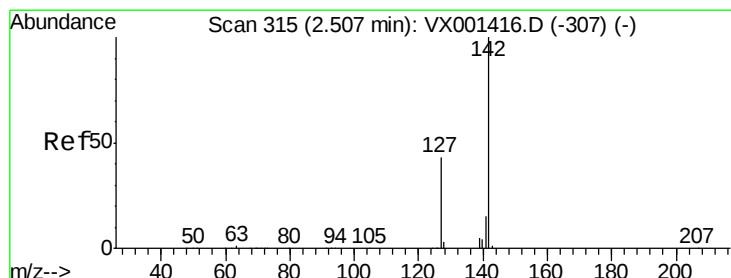
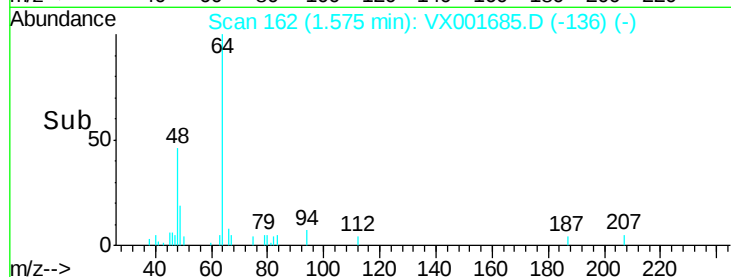
1500

1000

500

0

Time-->



#10

Methyl Iodide

Concen: 0.42 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

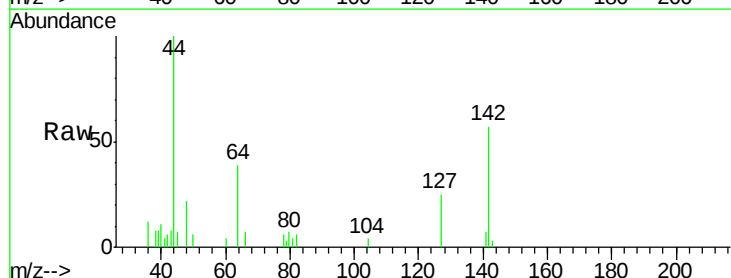
Tgt Ion: 142 Resp: 1963

Ion Ratio Lower Upper

142 100

127 41.0 33.6 50.4

141 11.9 11.4 17.2



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

1200

1000

800

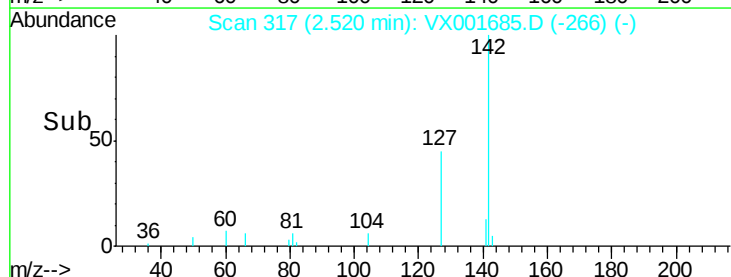
600

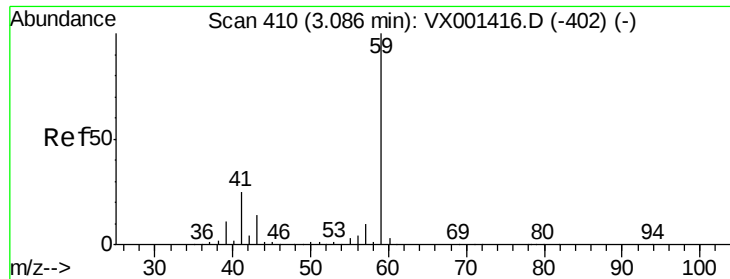
400

200

0

Time-->

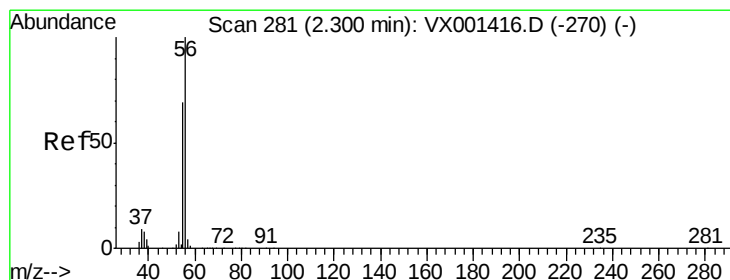
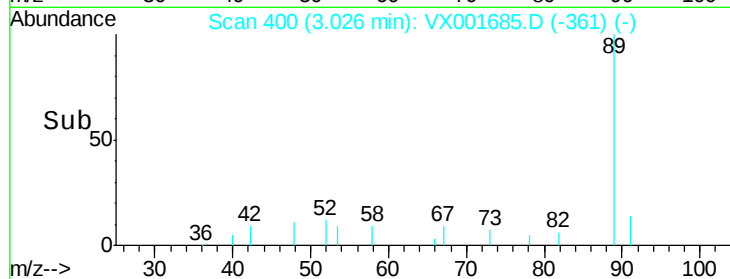
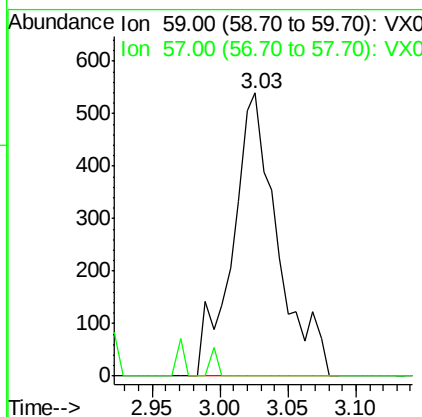
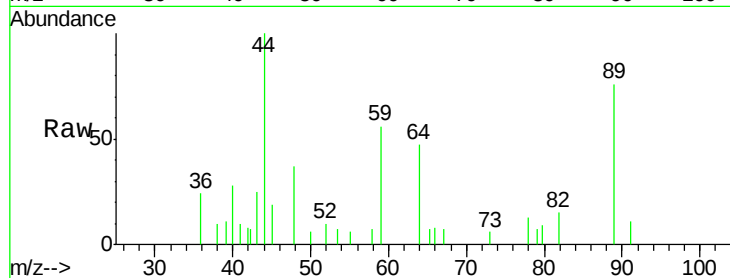




#11
Tert butyl alcohol
Concen: 1.54 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX001685.D
Acq: 12 May 2018 23:48

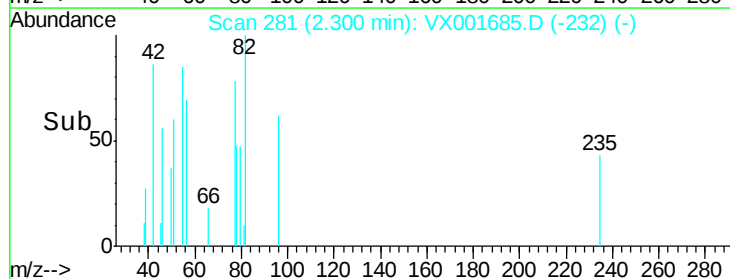
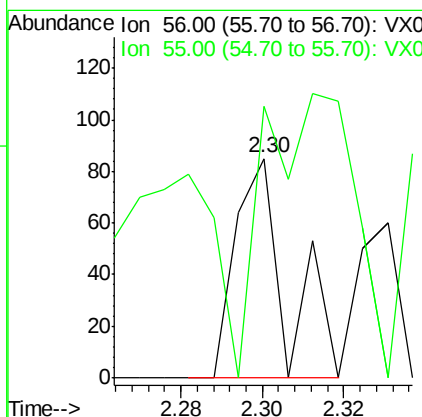
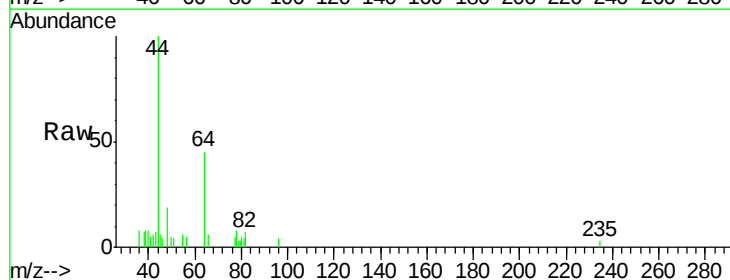
Instrument :
MSVOA_X
ClientSampleId :
PB109200ZHE#01

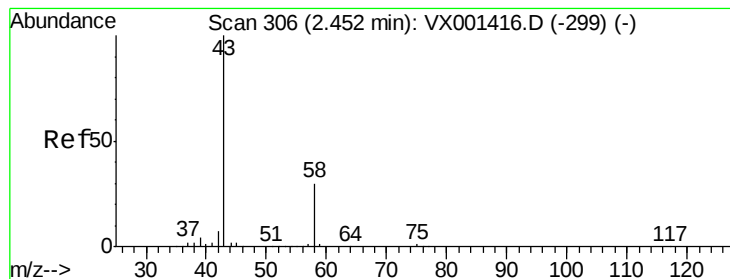
Tgt Ion: 59 Resp: 1251
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX001685.D
Acq: 12 May 2018 23:48

Tgt Ion: 56 Resp: 74
Ion Ratio Lower Upper
56 100
55 225.7 54.5 81.7#





#16

Acetone

Concen: 3.80 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

MSVOA_X

ClientSampleId :

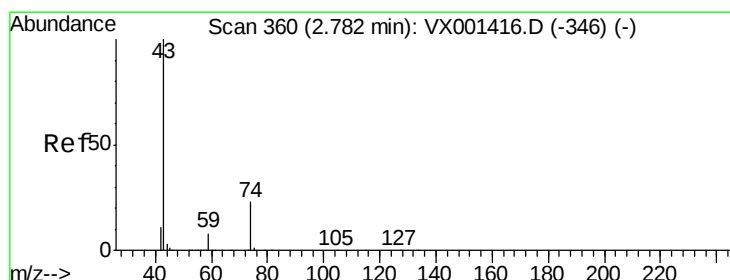
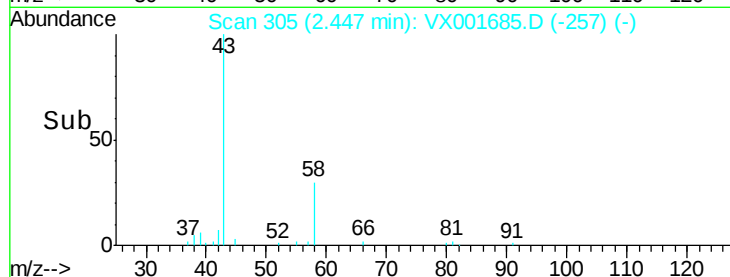
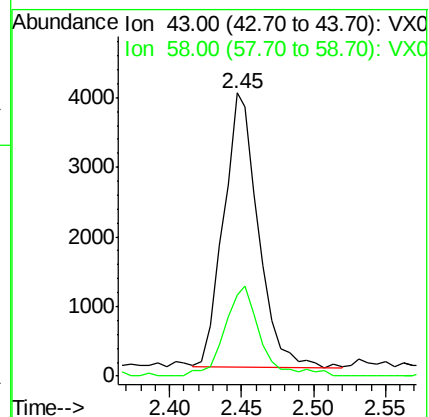
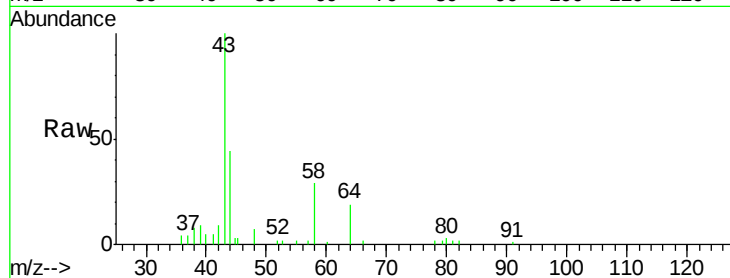
PB109200ZHE#01

Tgt Ion: 43 Resp: 6631

Ion Ratio Lower Upper

43 100

58 29.6 23.8 35.8



#18

Methyl Acetate

Concen: 4.73 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001685.D

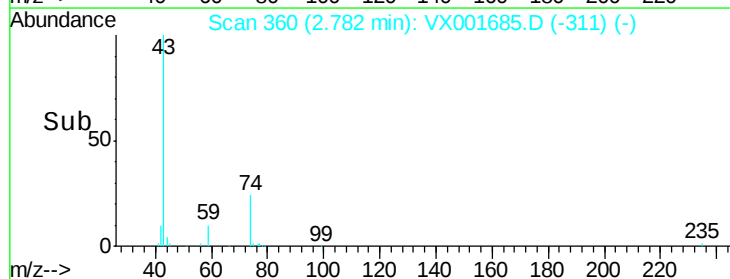
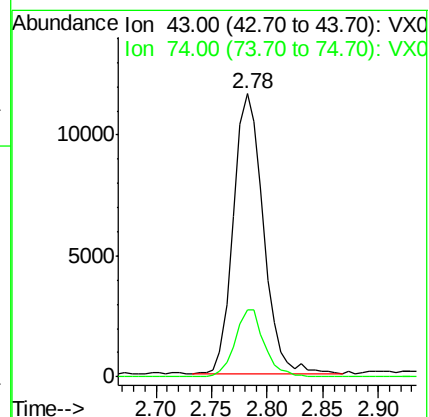
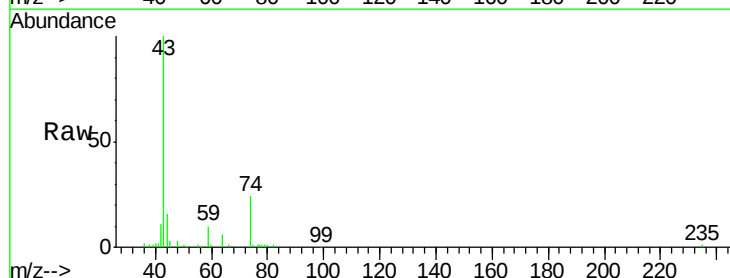
Acq: 12 May 2018 23:48

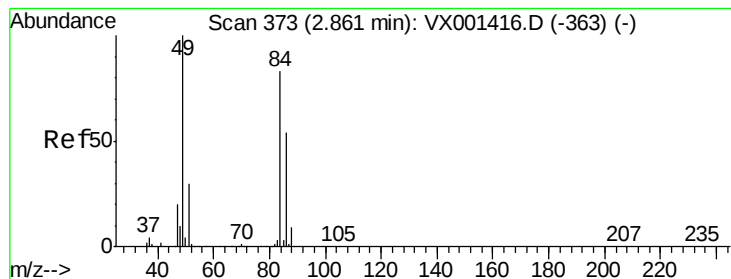
Tgt Ion: 43 Resp: 21709

Ion Ratio Lower Upper

43 100

74 23.2 18.6 27.8





#20

Methylene Chloride

Concen: 0.73 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#01

Tgt Ion: 84 Resp: 2525

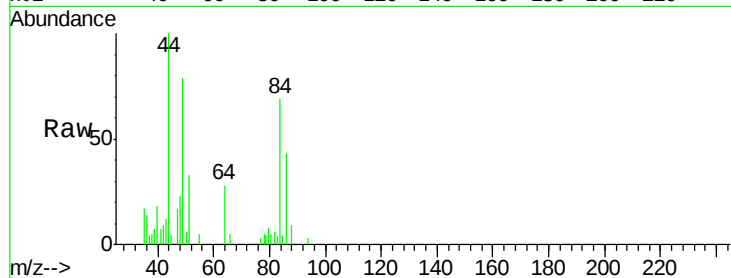
Ion Ratio Lower Upper

84 100

49 114.5 96.6 144.8

51 47.4 29.0 43.4#

86 62.7 52.2 78.4

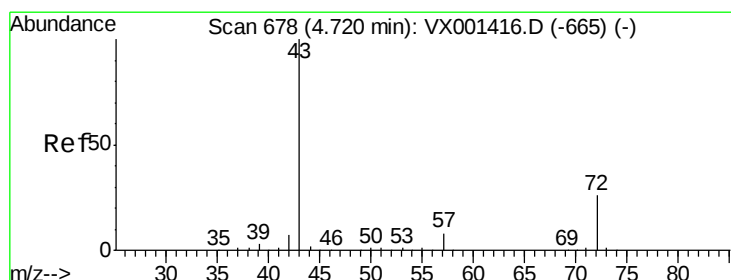
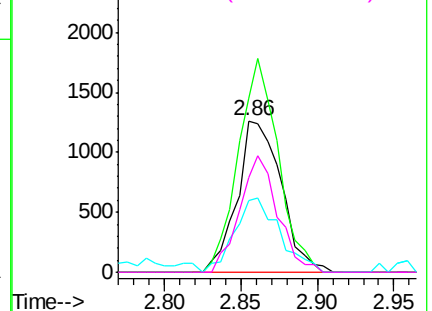
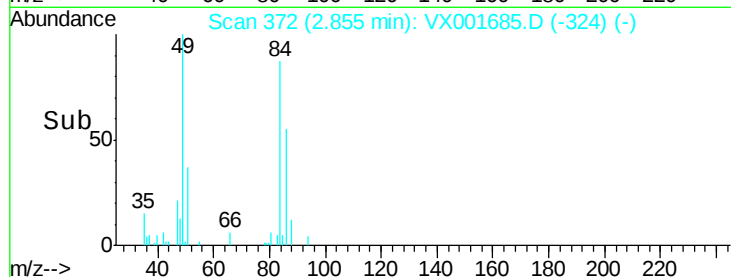


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.78 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.00 min

Lab File: VX001685.D

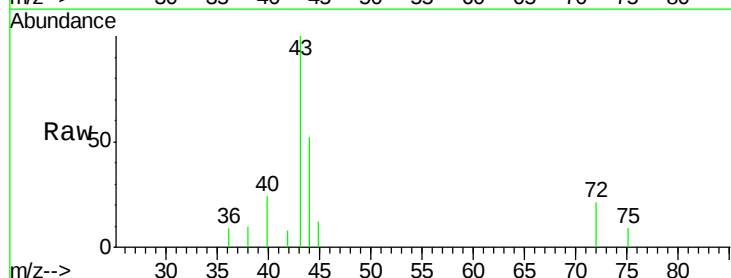
Acq: 12 May 2018 23:48

Tgt Ion: 43 Resp: 1980

Ion Ratio Lower Upper

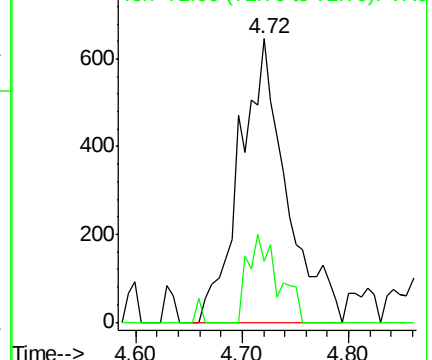
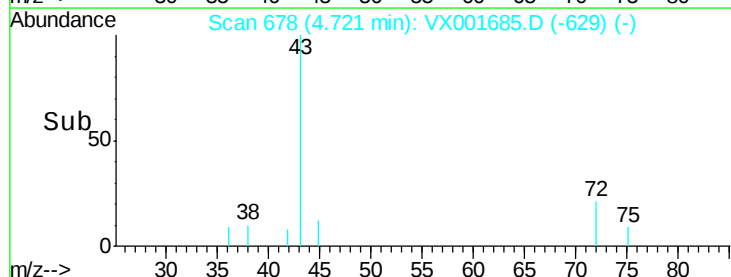
43 100

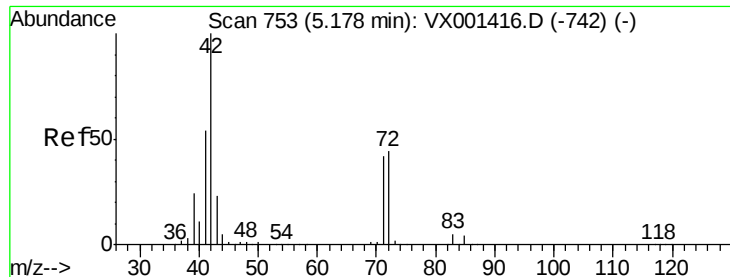
72 21.4 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#01

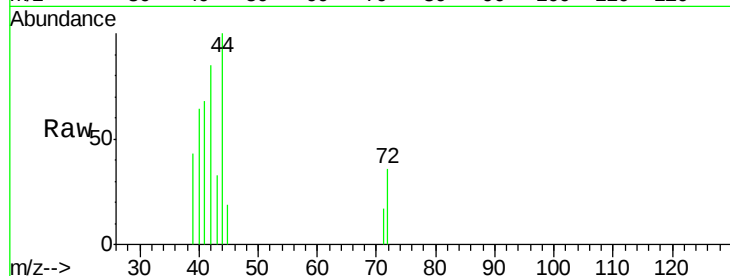
Tgt Ion: 42 Resp: 759

Ion Ratio Lower Upper

42 100

72 19.1 35.4 53.2#

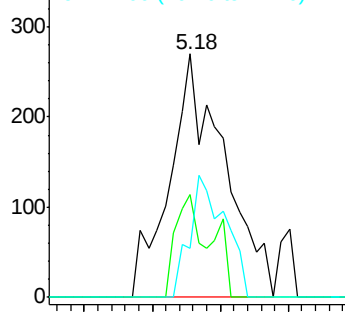
71 32.5 33.0 49.4#



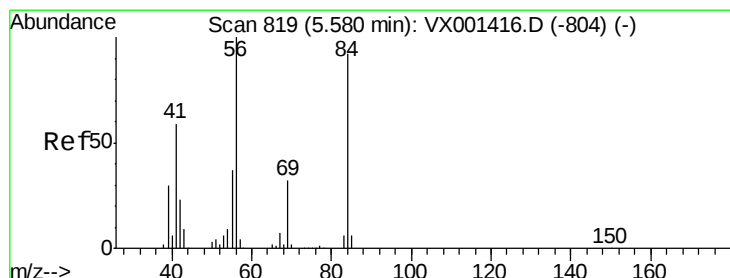
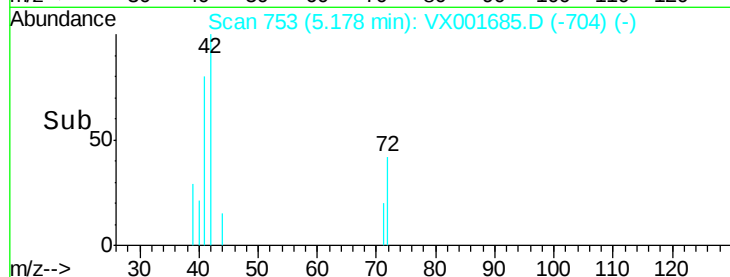
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 0.95 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

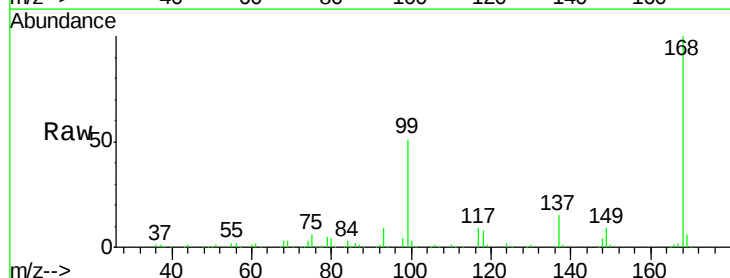
Tgt Ion: 56 Resp: 4677

Ion Ratio Lower Upper

56 100

69 180.5 25.4 38.0#

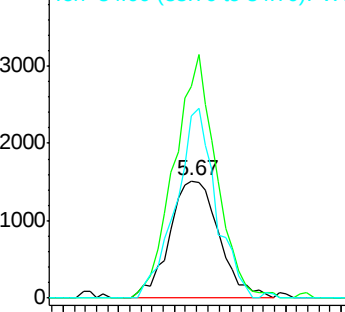
84 155.5 73.8 110.8#



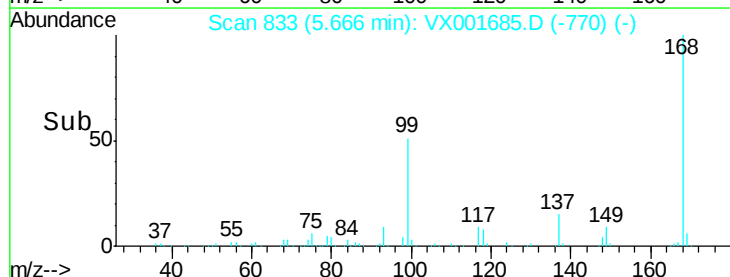
Abundance Ion 56.00 (55.70 to 56.70): VX0

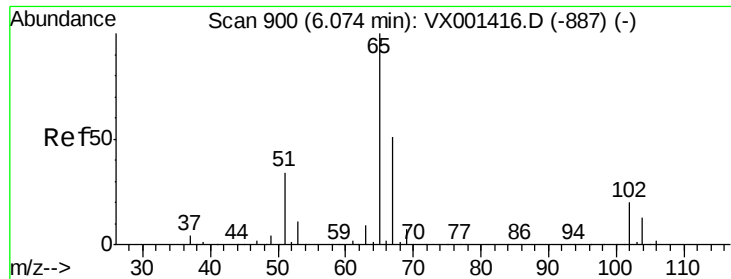
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 46.39 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

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ClientSampleId :

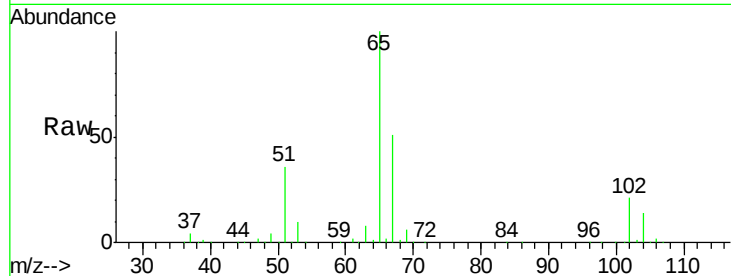
PB109200ZHE#01

Tgt Ion: 65 Resp: 178314

Ion Ratio Lower Upper

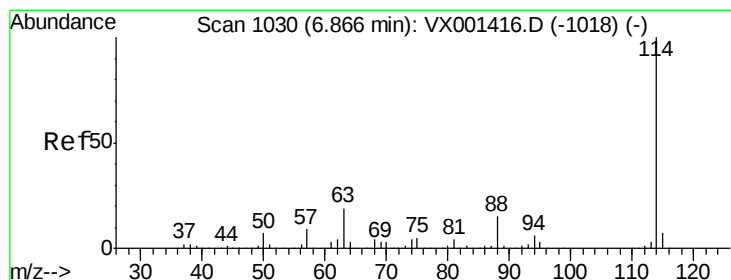
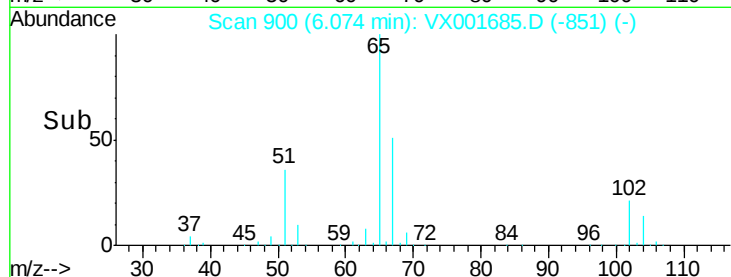
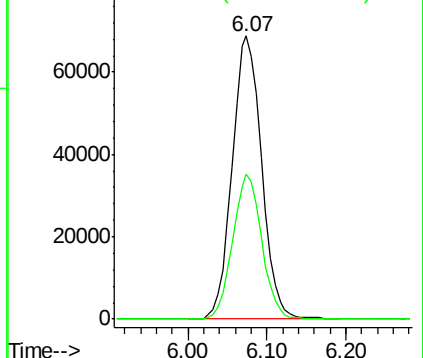
65 100

67 50.4 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

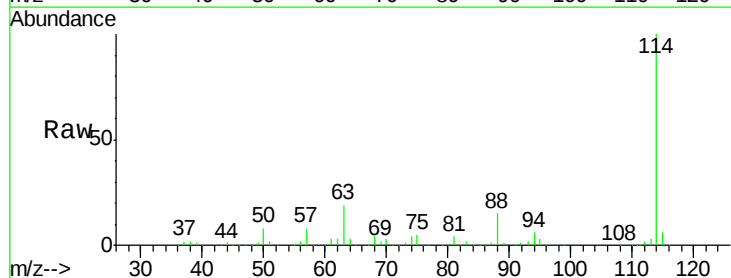
Tgt Ion: 114 Resp: 370029

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

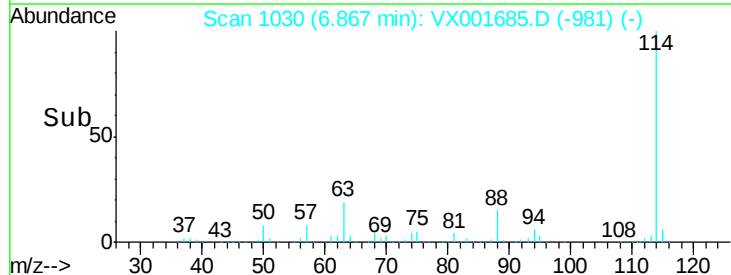
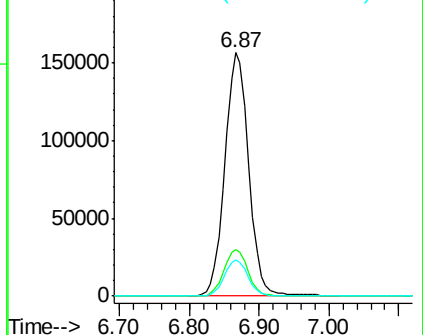
88 15.0 0.0 30.8

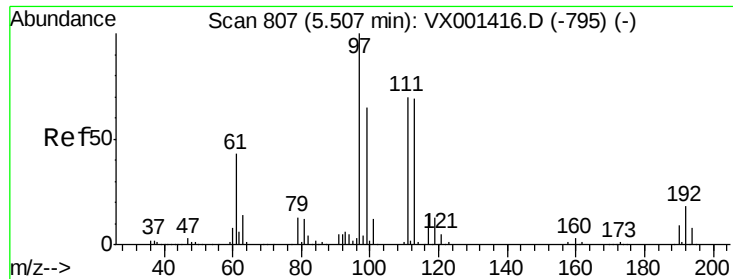


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

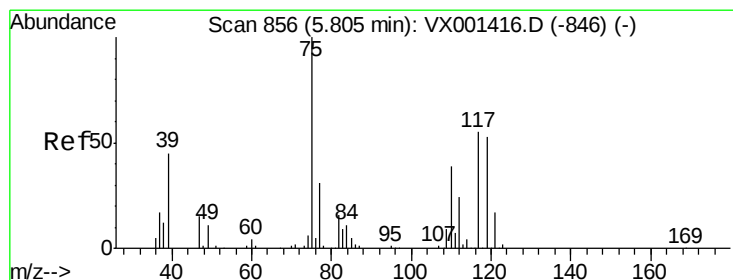
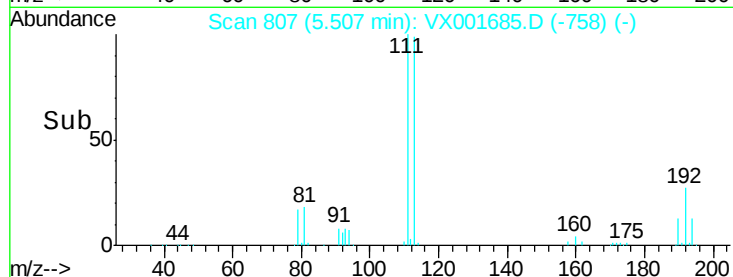
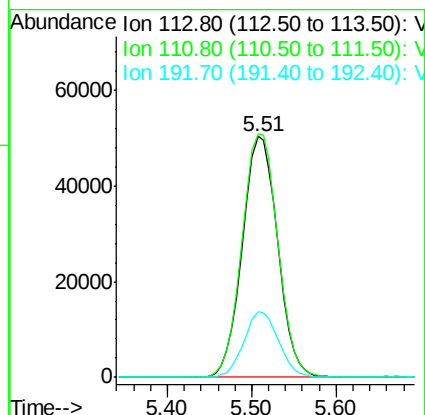
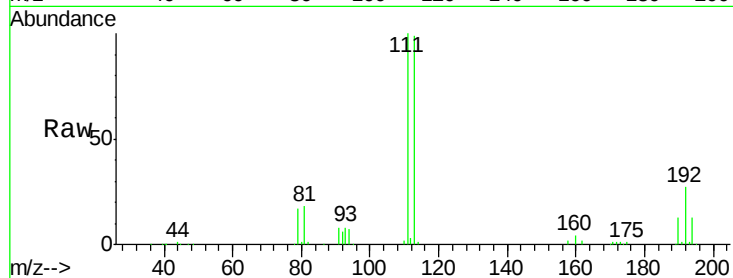




#35
 Dibromofluoromethane
 Concen: 43.41 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX001685.D
 Acq: 12 May 2018 23:48

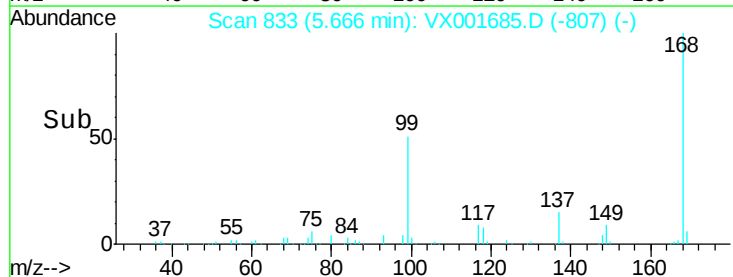
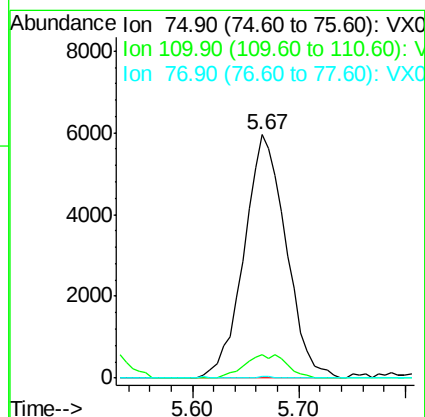
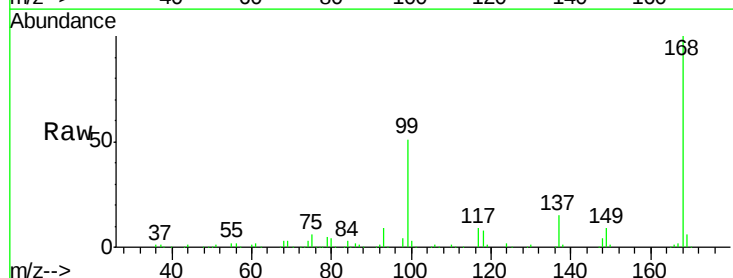
Instrument :
 MSVOA_X
 ClientSampleId :
 PB109200ZHE#01

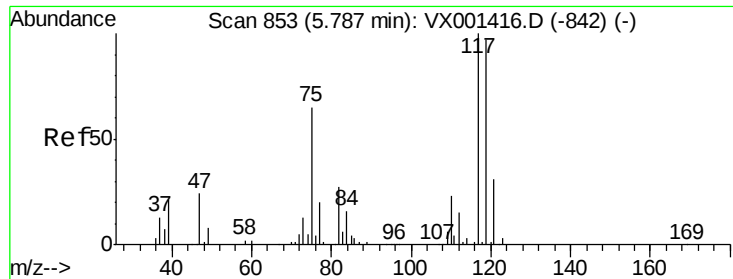
Tgt Ion:113 Resp: 142885
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.2 123.2
 192 26.9 21.4 32.0



#36
 1,1-Dichloropropene
 Concen: 3.48 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001685.D
 Acq: 12 May 2018 23:48

Tgt Ion: 75 Resp: 16391
 Ion Ratio Lower Upper
 75 100
 110 9.7 18.9 56.7#
 77 0.2 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 4.66 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#01

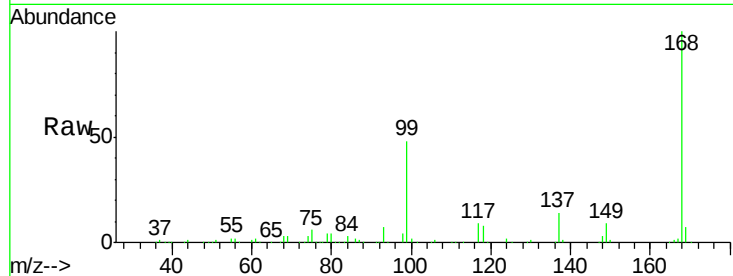
Tgt Ion: 117 Resp: 23391

Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.6#

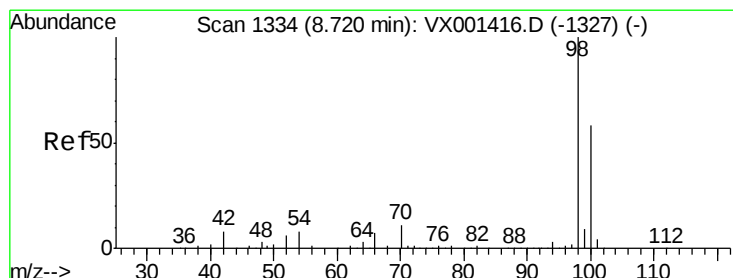
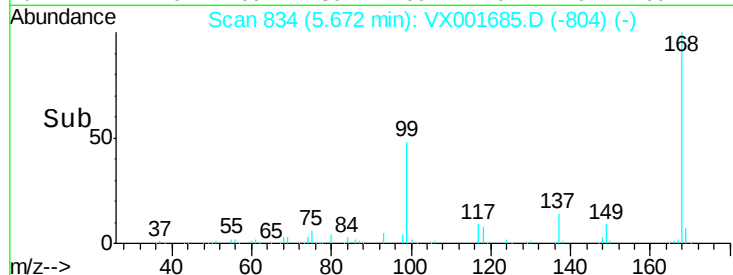
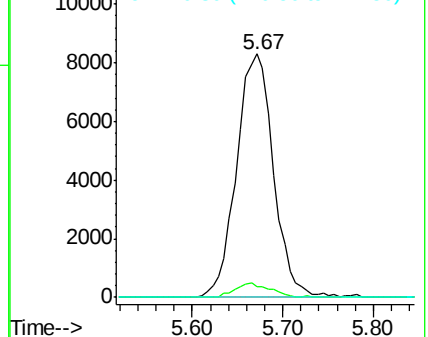
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 42.78 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001685.D

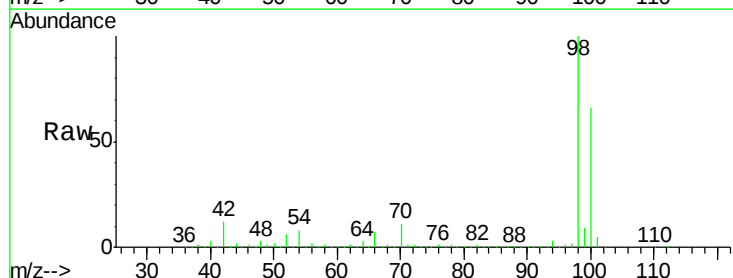
Acq: 12 May 2018 23:48

Tgt Ion: 98 Resp: 513910

Ion Ratio Lower Upper

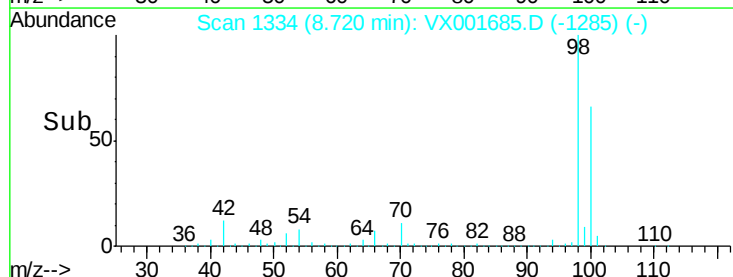
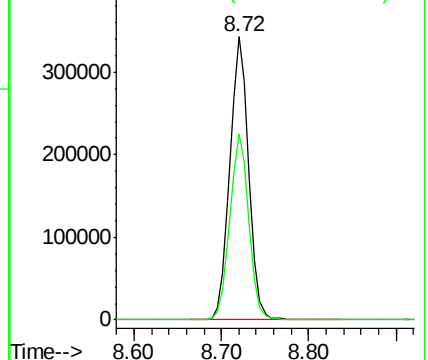
98 100

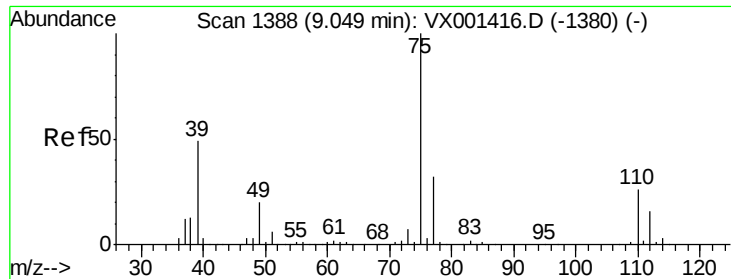
100 66.1 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#54

cis-1,3-Dichloropropene

Concen: 2.27 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#01

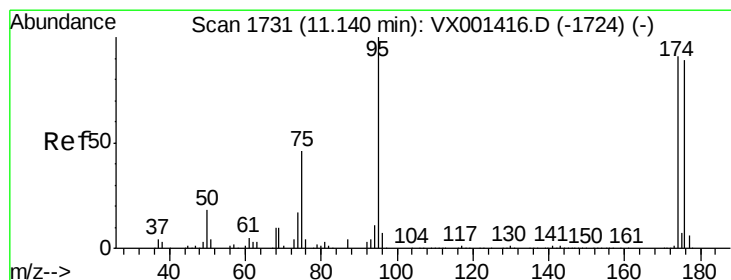
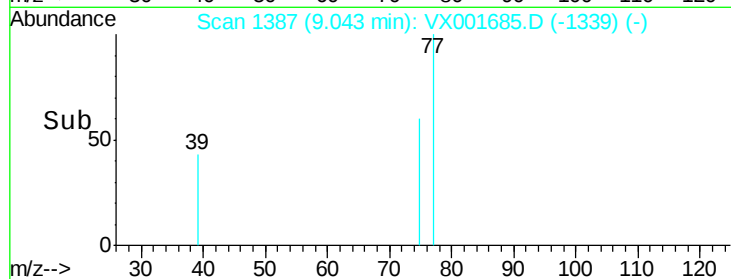
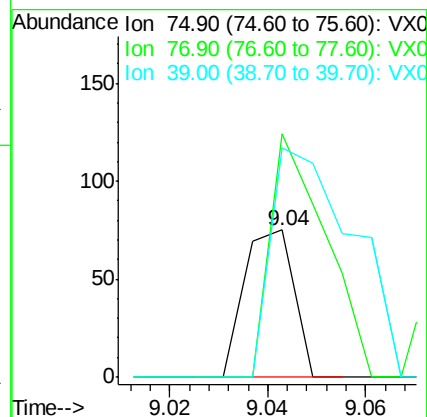
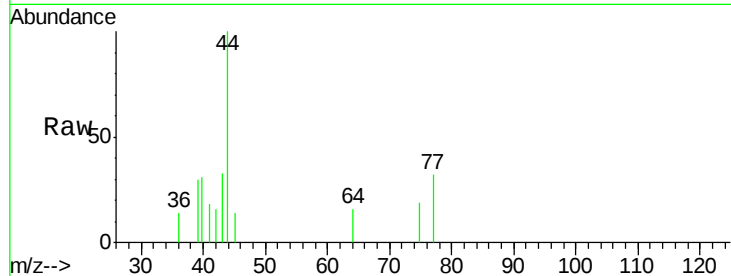
Tgt Ion: 75 Resp: 53

Ion Ratio Lower Upper

75 100

77 165.3 25.5 38.3#

39 156.0 38.9 58.3#



#62

4-Bromofluorobenzene

Concen: 35.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

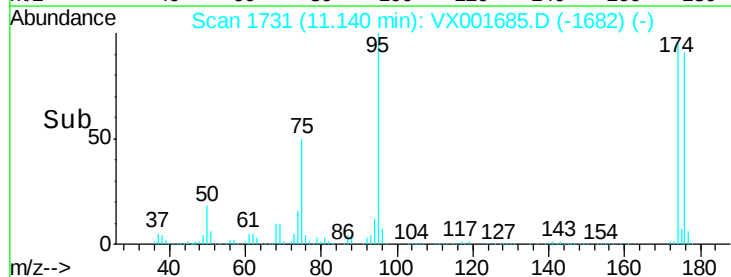
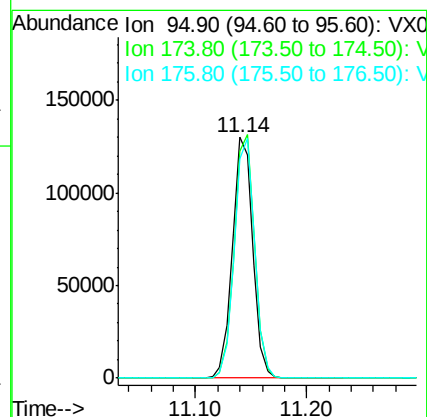
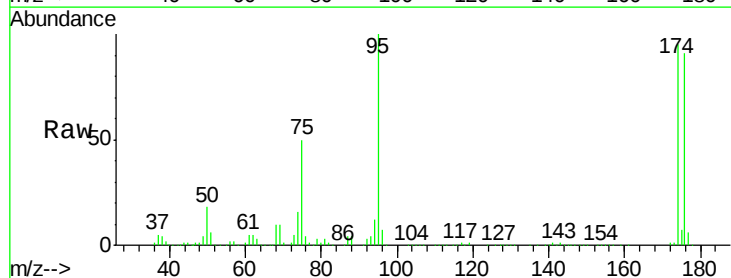
Tgt Ion: 95 Resp: 164114

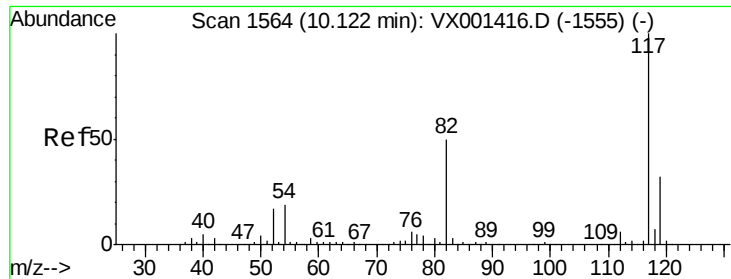
Ion Ratio Lower Upper

95 100

174 100.9 0.0 202.0

176 99.1 0.0 197.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

Instrument :

MSVOA_X

ClientSampleId :

PB109200ZHE#01

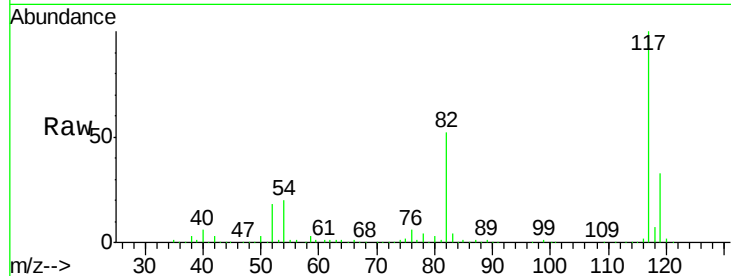
Tgt Ion:117 Resp: 326039

Ion Ratio Lower Upper

117 100

82 52.4 40.0 60.0

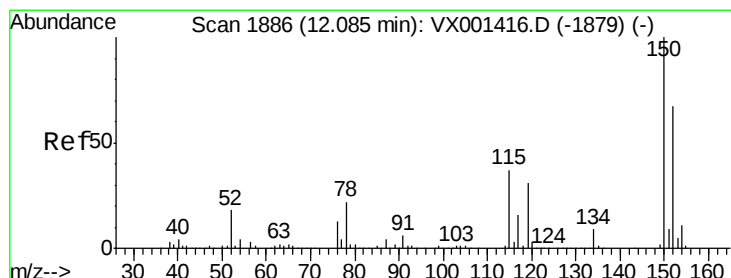
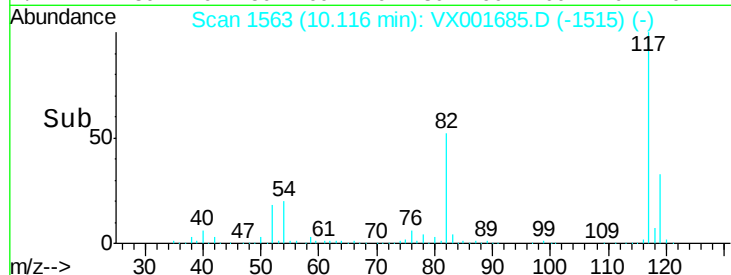
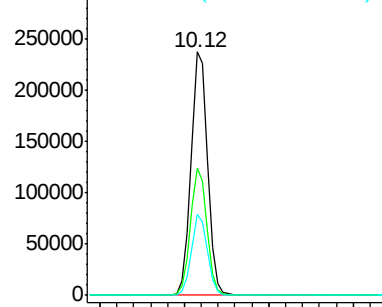
119 33.0 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001685.D

Acq: 12 May 2018 23:48

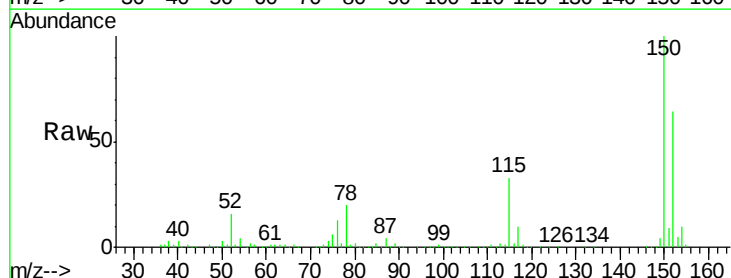
Tgt Ion:152 Resp: 177609

Ion Ratio Lower Upper

152 100

115 52.0 37.7 113.1

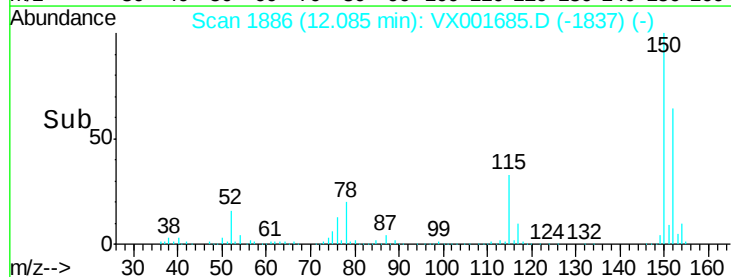
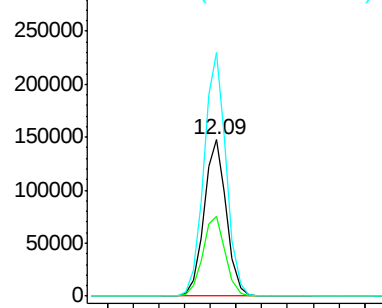
150 155.9 0.0 349.4

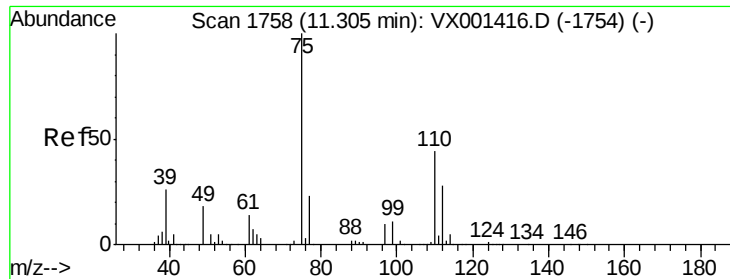


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

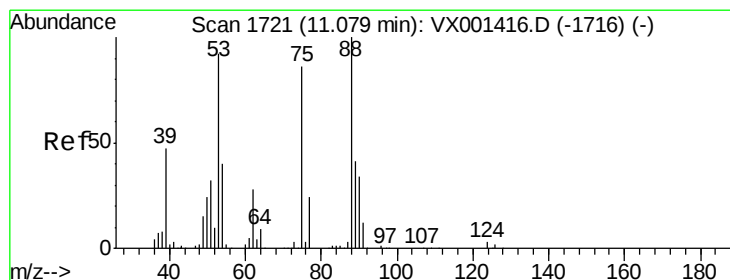
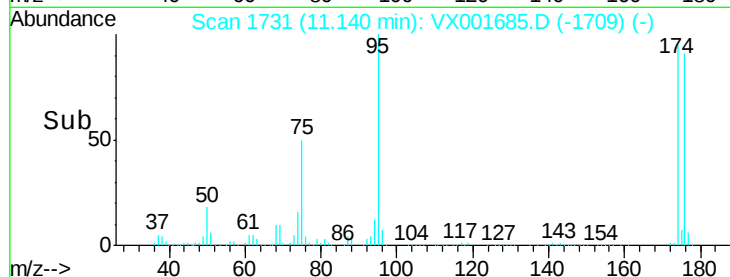
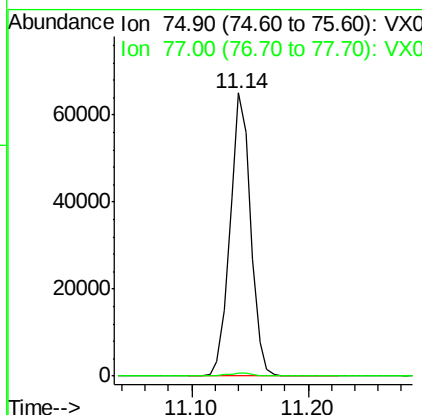
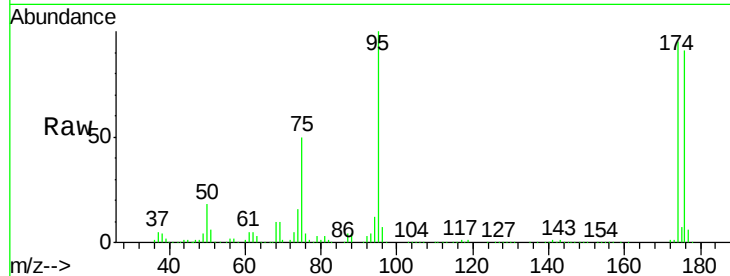




#76
 1,2,3-Trichloropropane
 Concen: 22.16 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX001685.D
 Acq: 12 May 2018 23:48

Instrument :
 MSVOA_X
 ClientSampleId :
 PB109200ZHE#01

Tgt Ion: 75 Resp: 79807
 Ion Ratio Lower Upper
 75 100
 77 1.3 19.6 58.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.87 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001685.D
 Acq: 12 May 2018 23:48

Tgt Ion: 75 Resp: 79807
 Ion Ratio Lower Upper
 75 100
 53 0.1 84.5 126.7#
 89 0.0 39.5 59.3#

