

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
 Data File : VX002150.D
 Acq On : 30 May 2018 21:18
 Operator : JC/MD
 Sample : J3093-03 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-3

Quant Time: May 31 02:10:59 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	49694	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	286336	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	248458	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	123802	31.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.53%
60) 4-Bromofluorobenzene	11.14	95	113530	26.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.97%
63) Toluene-d8	8.72	98	338221	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

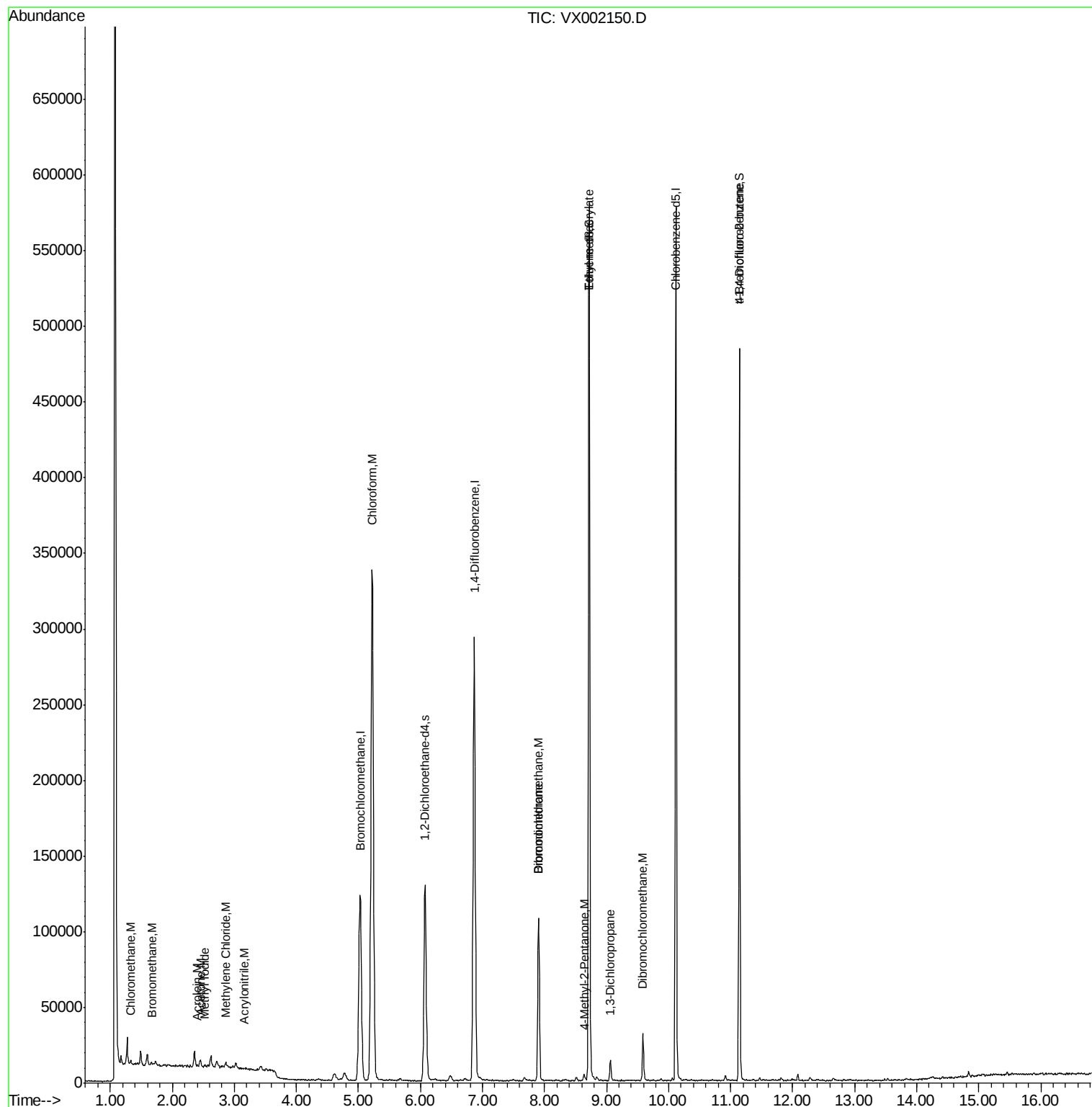
						Qvalue
3) Chloromethane	1.33	50	1222	0.39	ug/l	99
5) Bromomethane	1.66	94	1308	0.75	ug/l	96
11) Methyl Iodide	2.52	142	1249	0.32	ug/l	90
13) Acrolein	2.39	56	168	0.49	ug/l	86
14) Acrylonitrile	3.15	53	341	0.21	ug/l #	57
15) Acetone	2.45	58	1728	3.93	ug/l	94
18) Methylene Chloride	2.86	84	1464	0.53	ug/l	86
25) Chloroform	5.22	83	384602	70.53	ug/l	99
40) Dibromomethane	7.90	93	2092	0.95	ug/l #	1
41) Bromodichloromethane	7.90	83	62022	13.62	ug/l	95
51) Ethyl methacrylate	8.72	69	1105	0.20	ug/l	80
52) 1,3-Dichloropropane	9.06	76	1806	0.34	ug/l #	43
53) Dibromochloromethane	9.59	129	5022	1.30	ug/l	96
58) 4-Methyl-2-Pentanone	8.64	43	3645	0.67	ug/l #	50
77) t-1,4-Dichloro-2-butene	11.14	75	61809	39.81	ug/l #	11

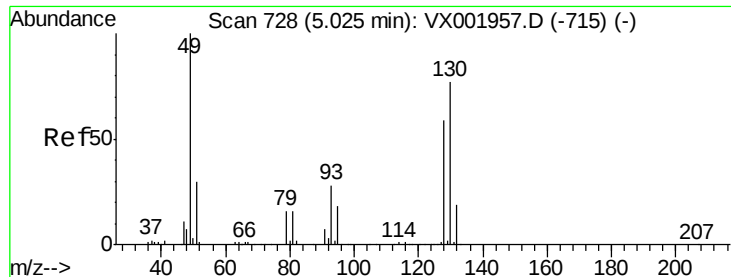
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 31 02:10:59 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Instrument :

MSVOA_X

ClientSampleId :

14B-3

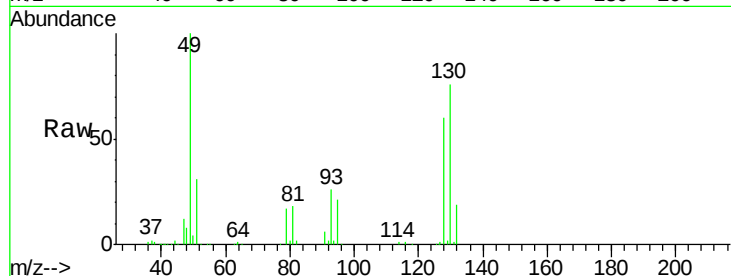
Tgt Ion:128 Resp: 49694

Ion Ratio Lower Upper

128 100

49 172.3 0.0 423.0

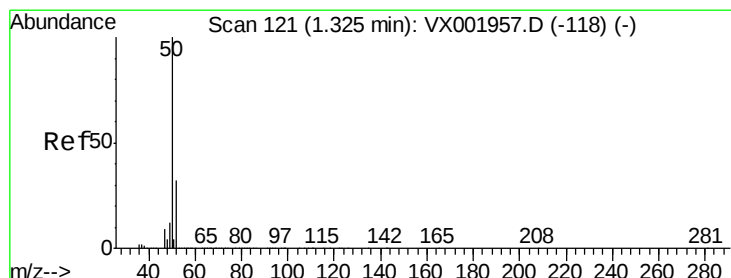
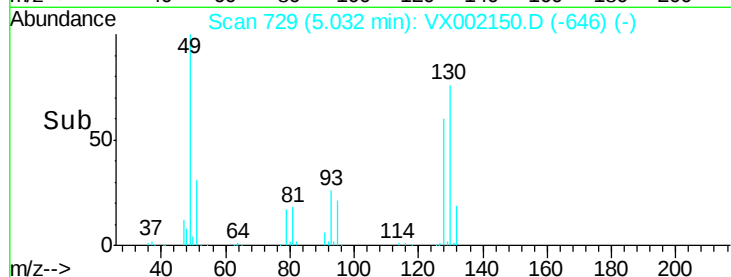
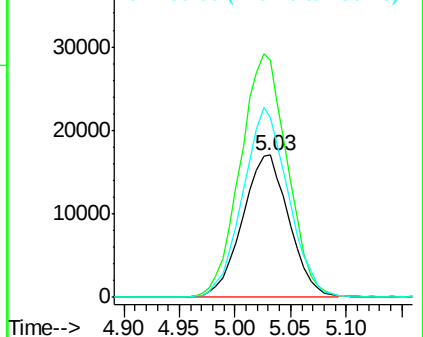
130 130.0 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.39 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002150.D

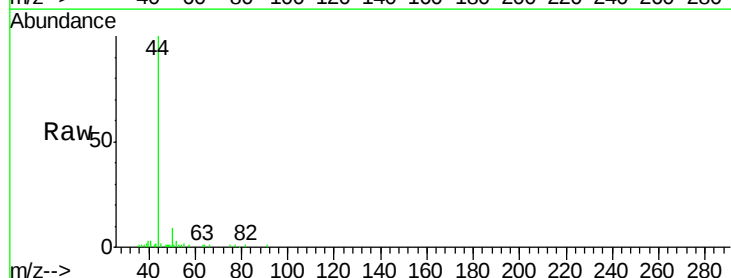
Acq: 30 May 2018 21:18

Tgt Ion: 50 Resp: 1222

Ion Ratio Lower Upper

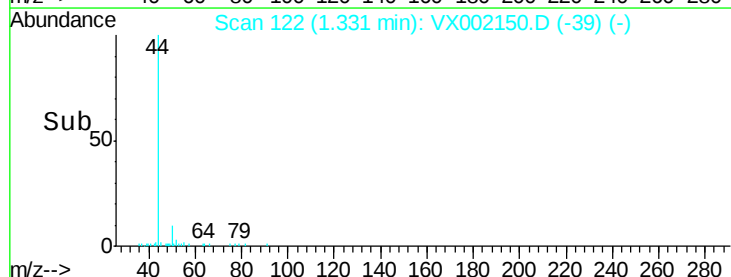
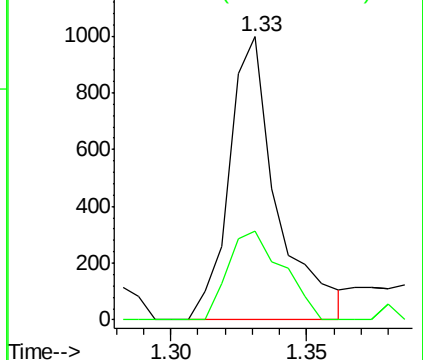
50 100

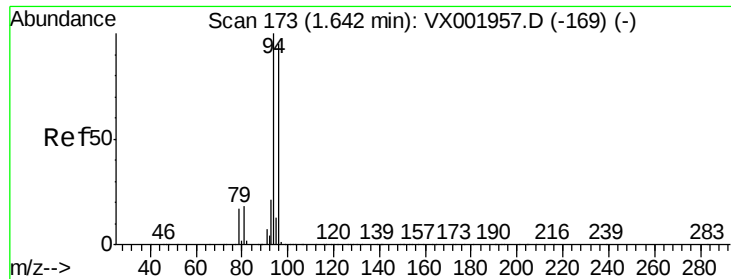
52 31.5 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.75 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Instrument :

MSVOA_X

ClientSampleId :

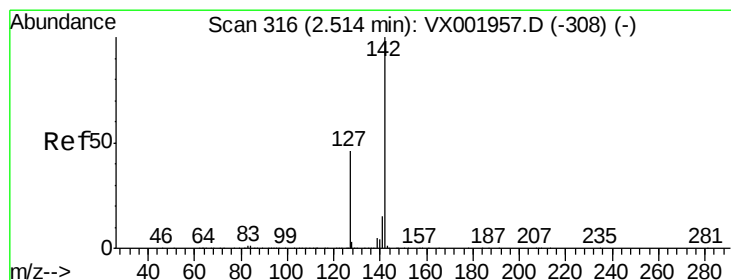
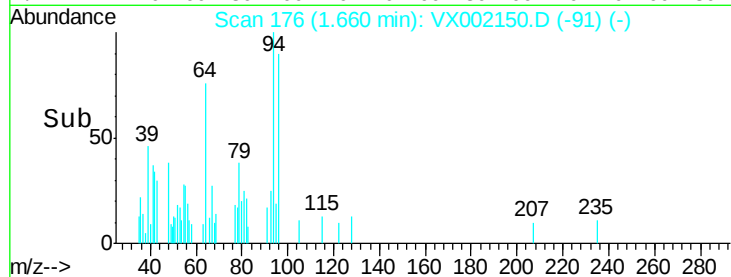
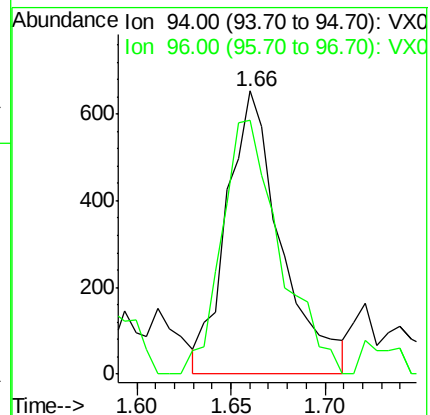
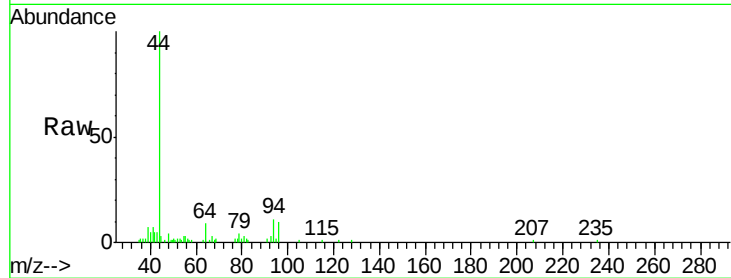
14B-3

Tgt Ion: 94 Resp: 1308

Ion Ratio Lower Upper

94 100

96 98.5 75.7 113.5



#11

Methyl Iodide

Concen: 0.32 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

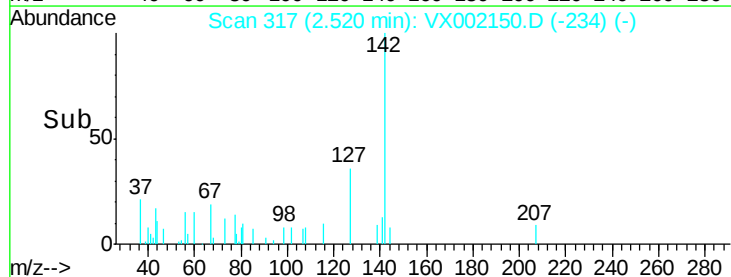
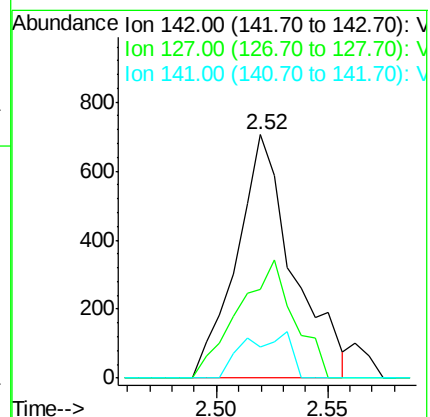
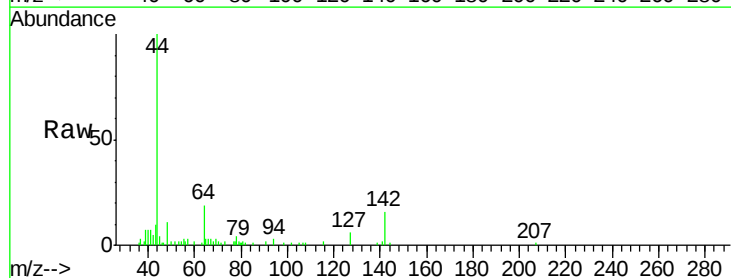
Tgt Ion: 142 Resp: 1249

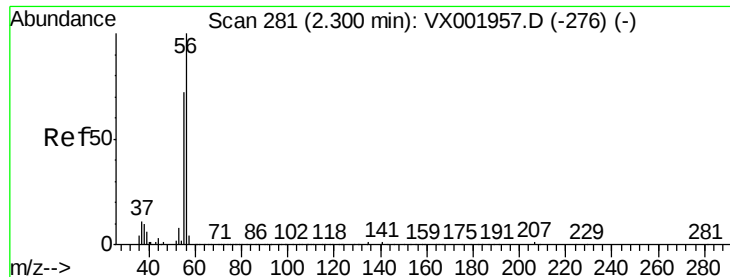
Ion Ratio Lower Upper

142 100

127 38.4 23.2 69.6

141 13.8 7.4 22.2





#13

Acrolein

Concen: 0.49 ug/l

RT: 2.39 min Scan# 296

Delta R.T. 0.09 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Instrument :

MSVOA_X

ClientSampleId :

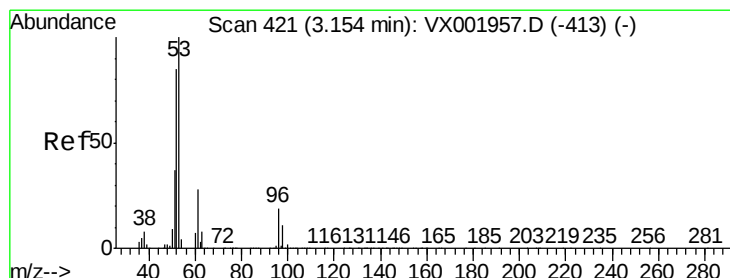
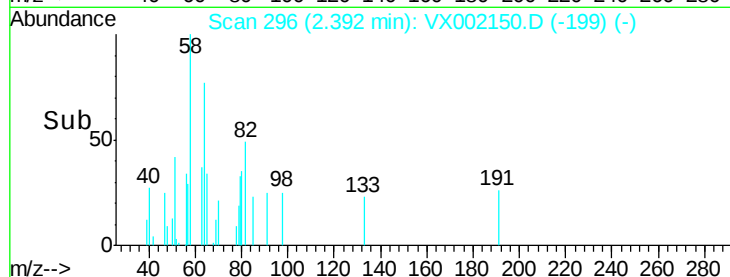
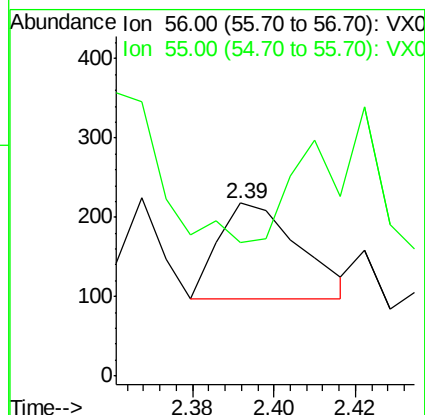
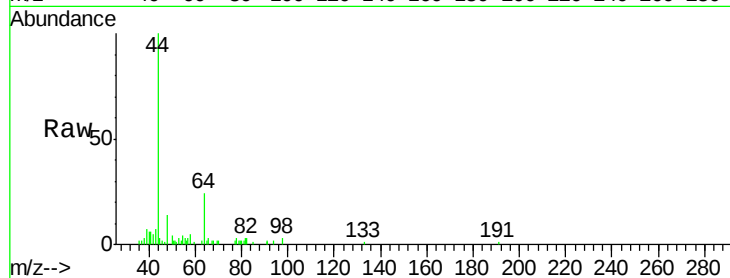
14B-3

Tgt Ion: 56 Resp: 168

Ion Ratio Lower Upper

56 100

55 60.1 57.3 85.9



#14

Acrylonitrile

Concen: 0.21 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

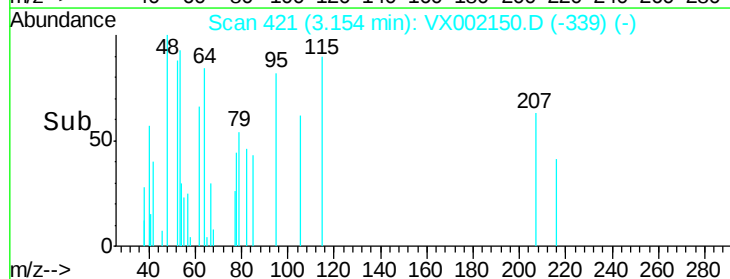
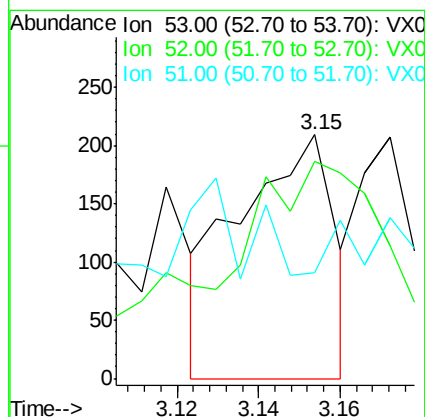
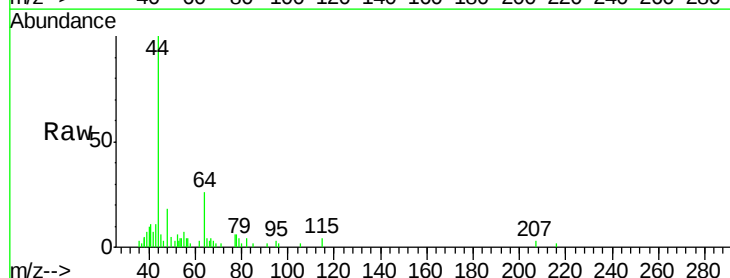
Tgt Ion: 53 Resp: 341

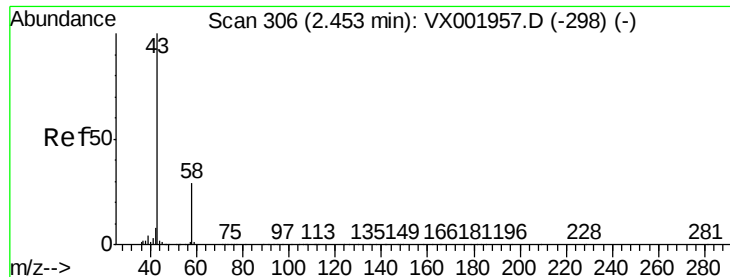
Ion Ratio Lower Upper

53 100

52 119.6 41.5 124.6

51 7.0 17.9 53.8#





#15

Acetone

Concen: 3.93 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Instrument :

MSVOA_X

ClientSampleId :

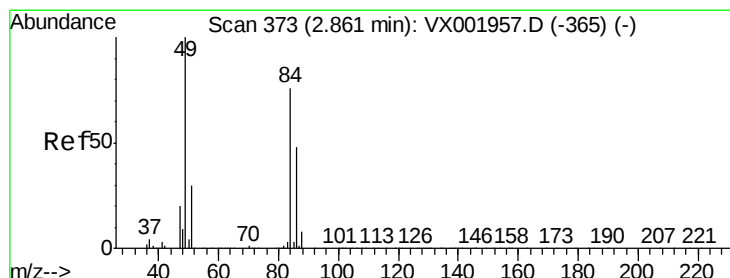
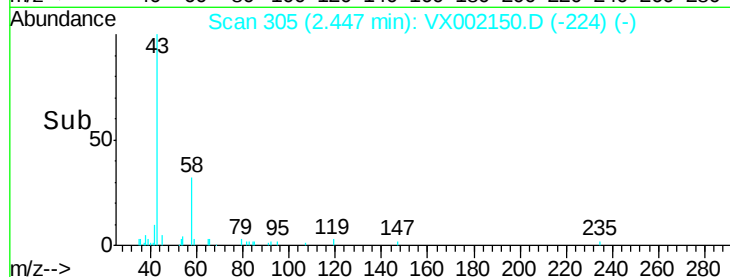
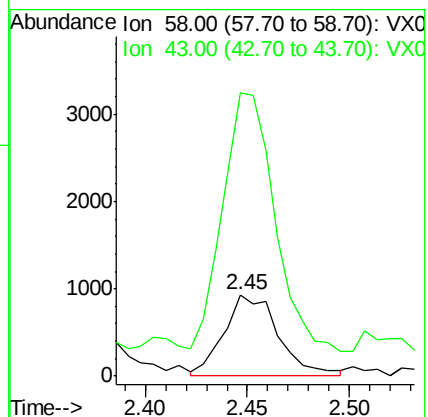
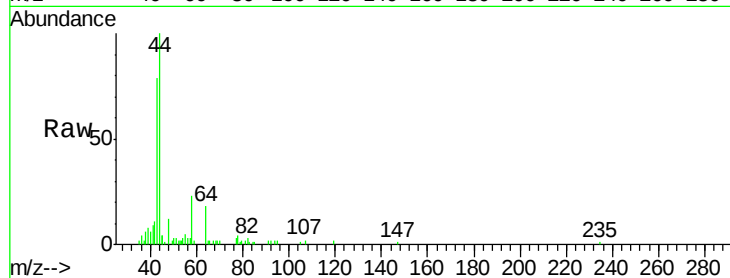
14B-3

Tgt Ion: 58 Resp: 1728

Ion Ratio Lower Upper

58 100

43 335.0 278.8 418.2



#18

Methylene Chloride

Concen: 0.53 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Tgt Ion: 84 Resp: 1464

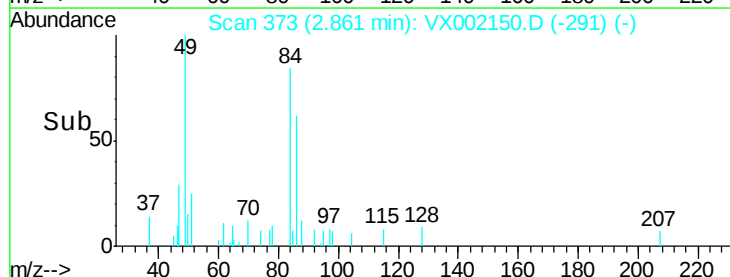
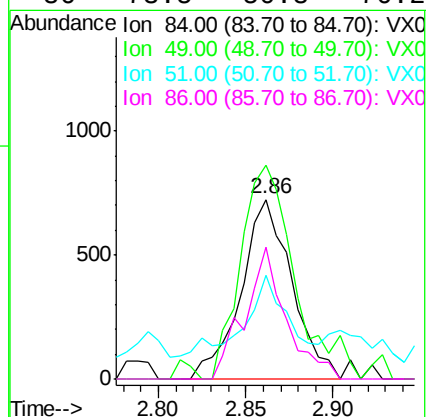
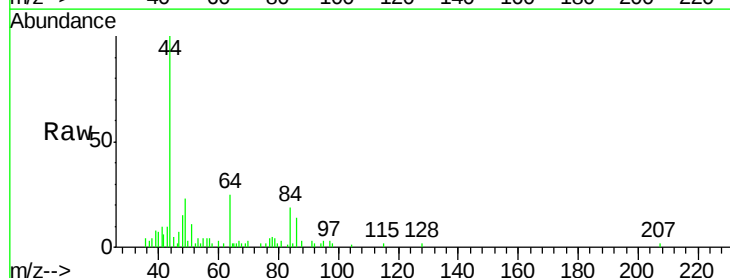
Ion Ratio Lower Upper

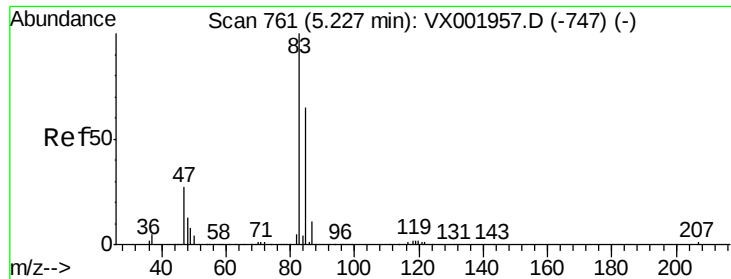
84 100

49 111.3 104.7 157.1

51 42.8 31.0 46.4

86 73.5 50.8 76.2





#25

Chloroform

Concen: 70.53 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.01 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Instrument :

MSVOA_X

ClientSampled :

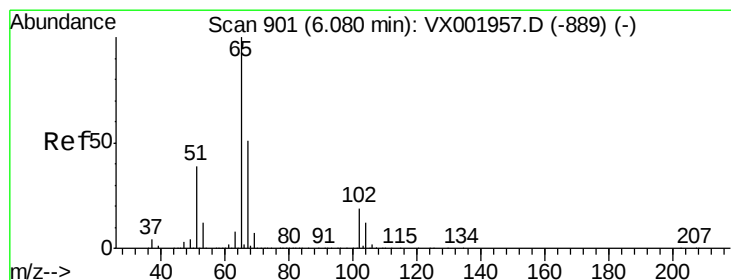
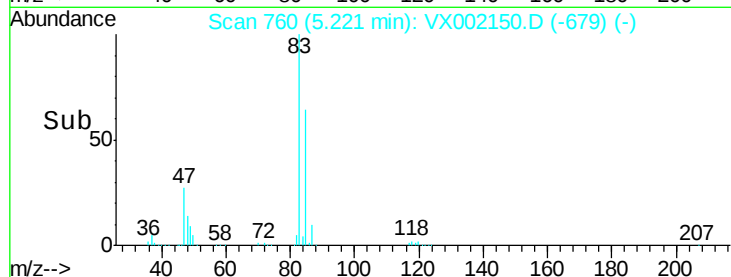
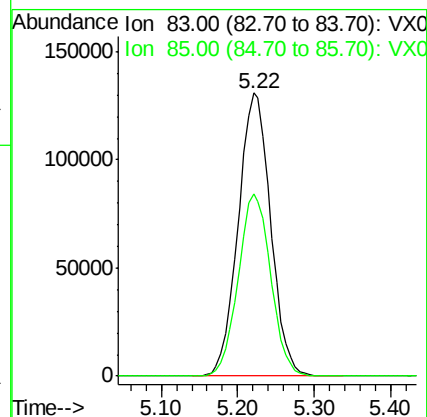
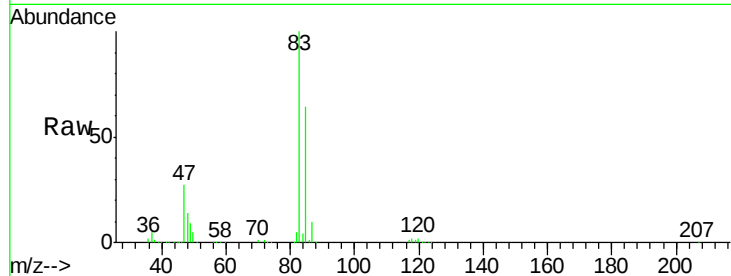
14B-3

Tgt Ion: 83 Resp: 384602

Ion Ratio Lower Upper

83 100

85 64.4 51.9 77.9



#27

1,2-Dichloroethane-d4

Concen: 31.66 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX002150.D

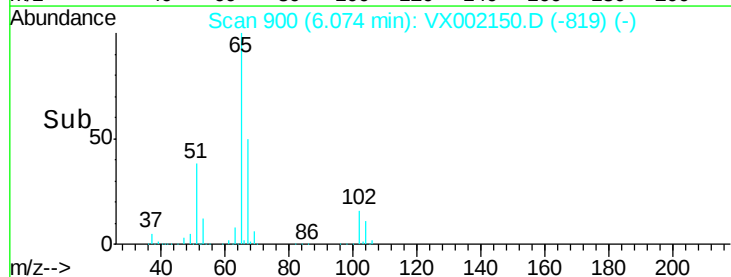
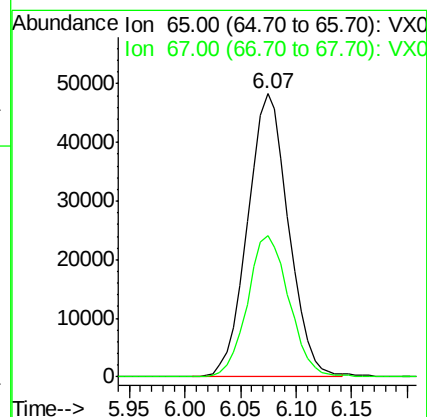
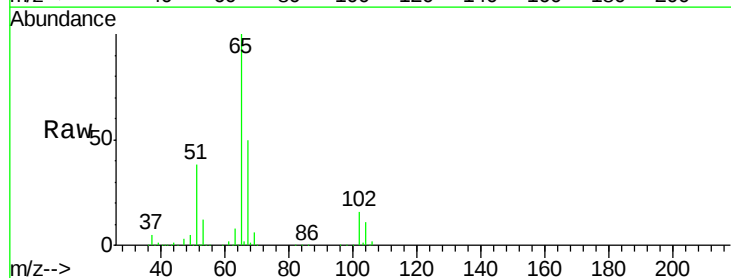
Acq: 30 May 2018 21:18

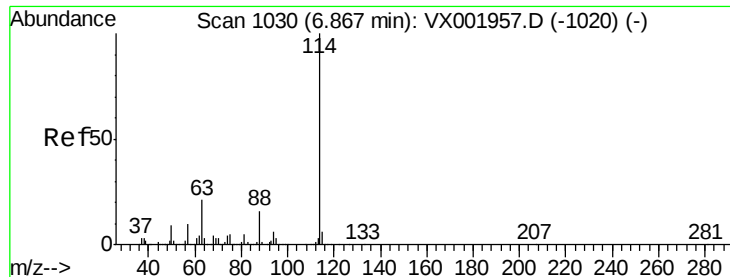
Tgt Ion: 65 Resp: 123802

Ion Ratio Lower Upper

65 100

67 50.7 40.9 61.3

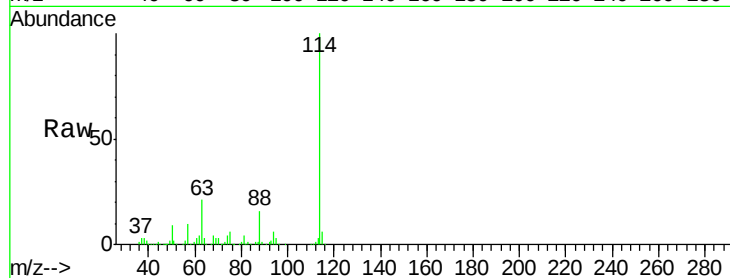




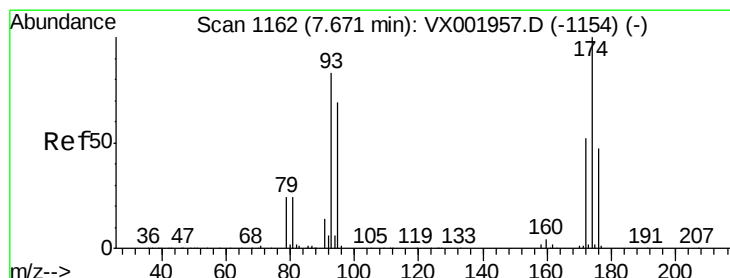
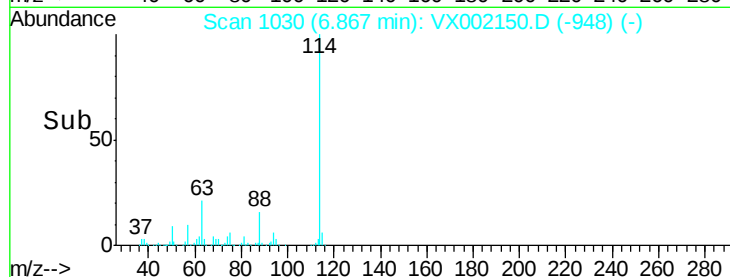
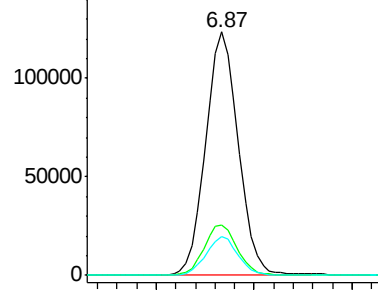
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002150.D
 Acq: 30 May 2018 21:18

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-3

Tgt Ion: 114 Resp: 286336
 Ion Ratio Lower Upper
 114 100
 63 21.0 17.1 25.7
 88 15.4 12.6 19.0

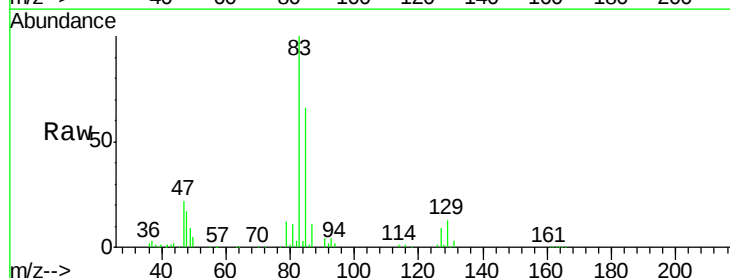


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

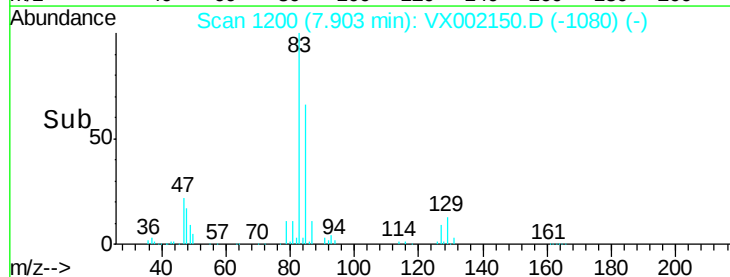
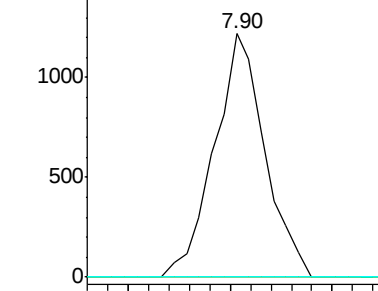


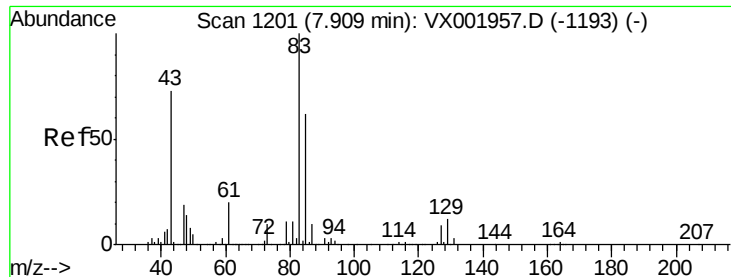
#40
 Dibromomethane
 Concen: 0.95 ug/l
 RT: 7.90 min Scan# 1200
 Delta R.T. 0.23 min
 Lab File: VX002150.D
 Acq: 30 May 2018 21:18

Tgt Ion: 93 Resp: 2092
 Ion Ratio Lower Upper
 93 100
 95 0.0 0.0 162.6
 174 0.0 0.0 229.4



Abundance Ion 93.00 (92.70 to 93.70): VX0
 Ion 95.00 (94.70 to 95.70): VX0
 Ion 174.00 (173.70 to 174.70): V

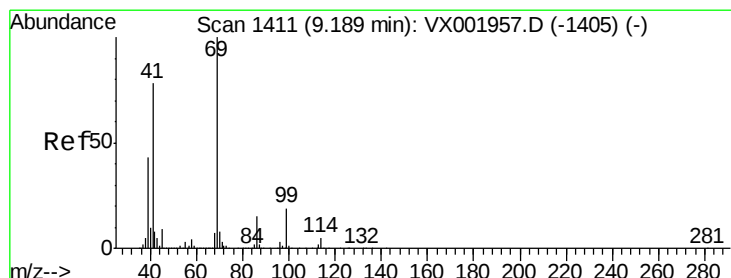
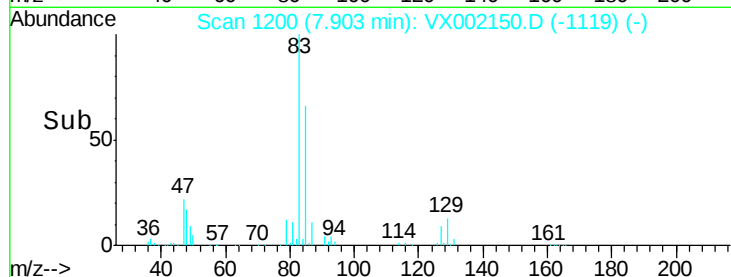
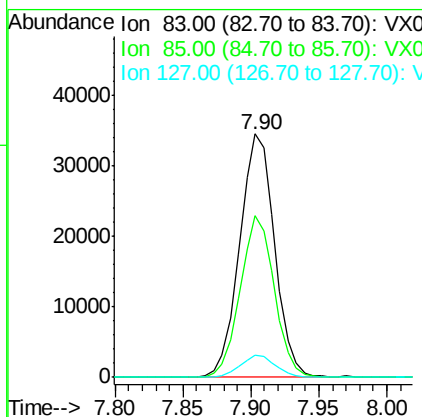
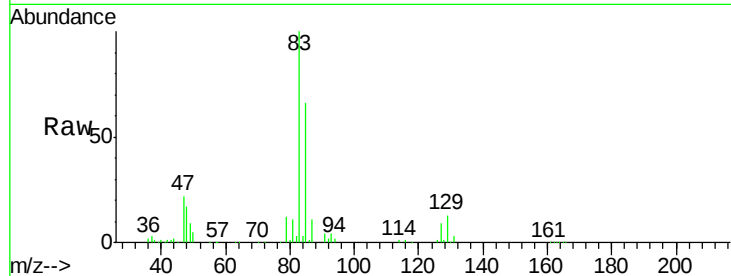




#41
 Bromodichloromethane
 Concen: 13.62 ug/l
 RT: 7.90 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VX002150.D
 Acq: 30 May 2018 21:18

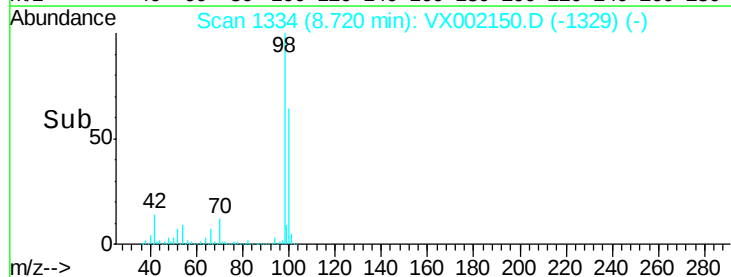
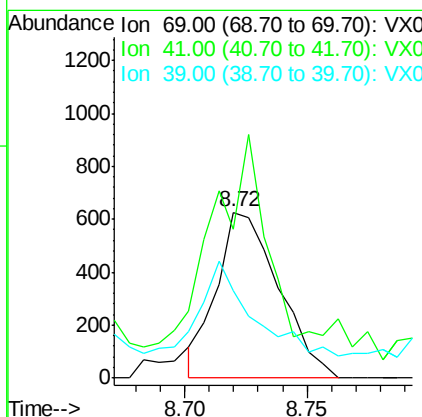
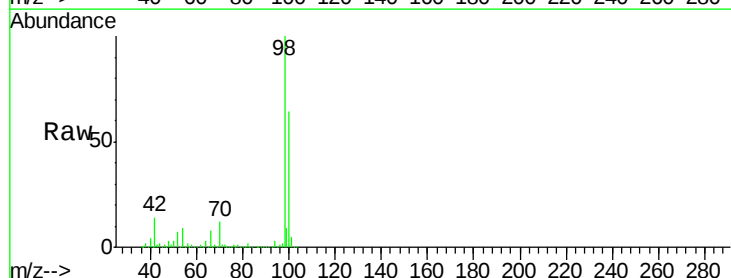
Instrument :
 MSVOA_X
 ClientSampled :
 14B-3

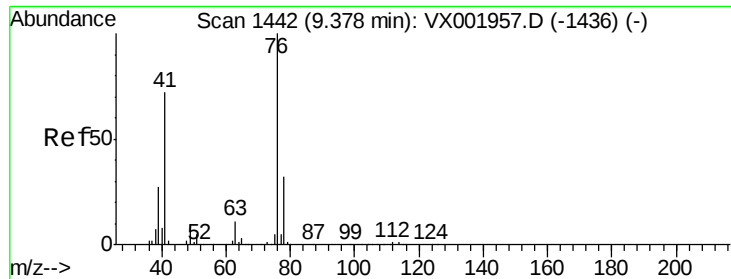
Tgt Ion: 83 Resp: 62022
 Ion Ratio Lower Upper
 83 100
 85 66.3 49.8 74.8
 127 9.2 7.3 10.9



#51
 Ethyl methacrylate
 Concen: 0.20 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. -0.47 min
 Lab File: VX002150.D
 Acq: 30 May 2018 21:18

Tgt Ion: 69 Resp: 1105
 Ion Ratio Lower Upper
 69 100
 41 54.2 39.1 117.3
 39 39.5 21.7 65.1





#52

1,3-Dichloropropane

Concen: 0.34 ug/l

RT: 9.06 min Scan# 1390

Delta R.T. -0.32 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Instrument :

MSVOA_X

ClientSampled :

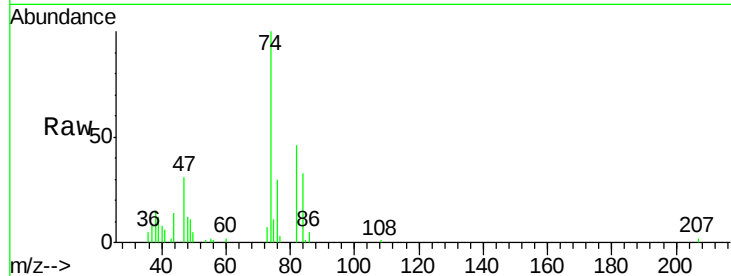
14B-3

Tgt Ion: 76 Resp: 1806

Ion Ratio Lower Upper

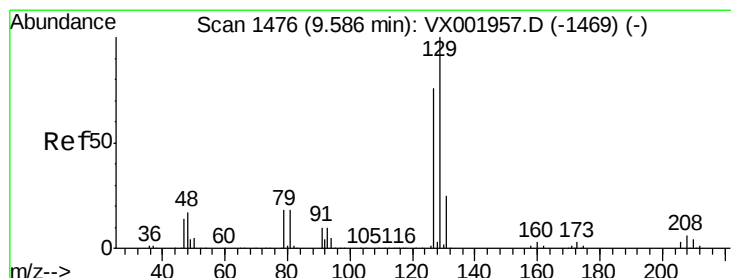
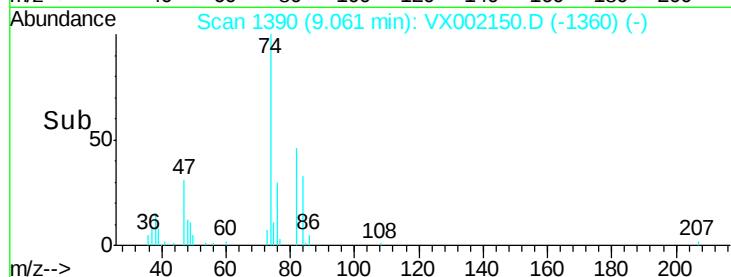
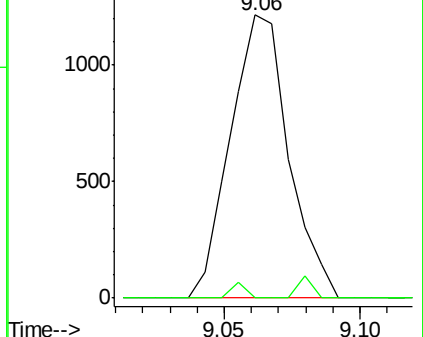
76 100

78 0.0 0.0 63.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#53

Dibromochloromethane

Concen: 1.30 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX002150.D

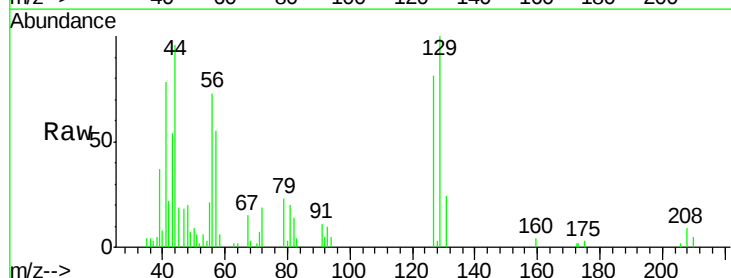
Acq: 30 May 2018 21:18

Tgt Ion: 129 Resp: 5022

Ion Ratio Lower Upper

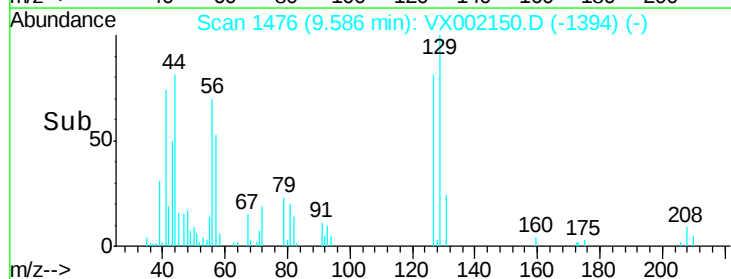
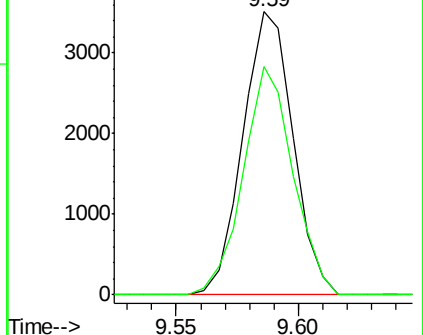
129 100

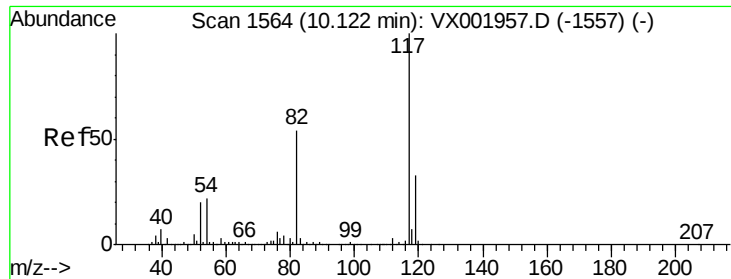
127 80.1 38.5 115.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

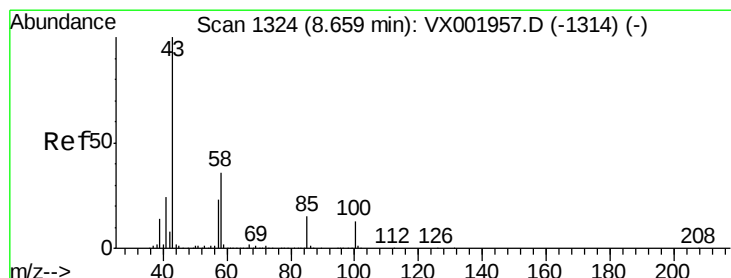
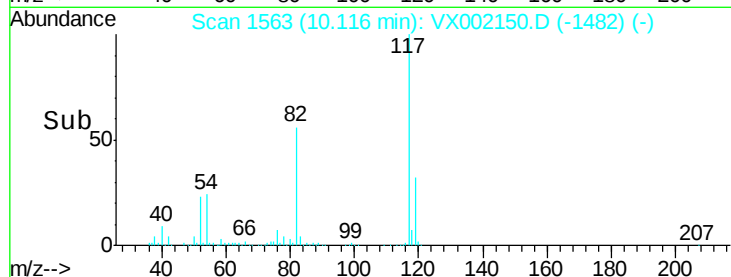
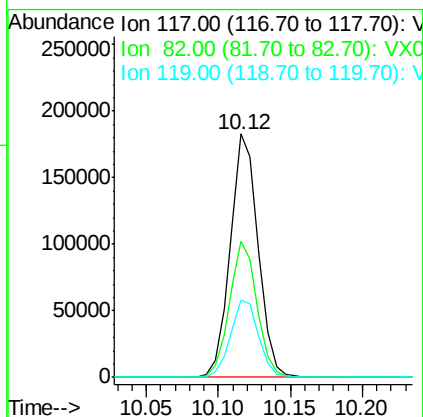
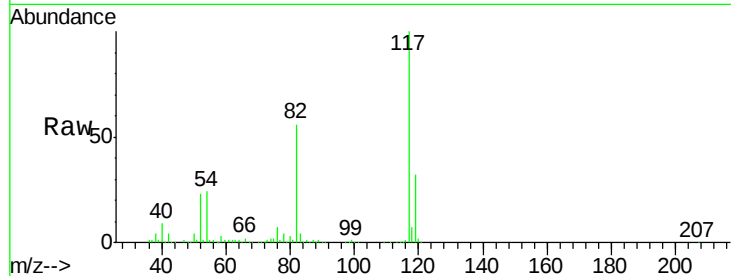




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX002150.D
Acq: 30 May 2018 21:18

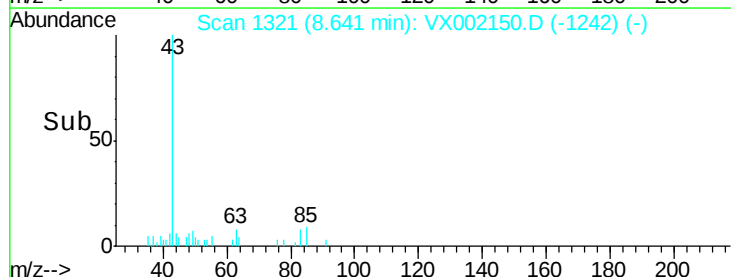
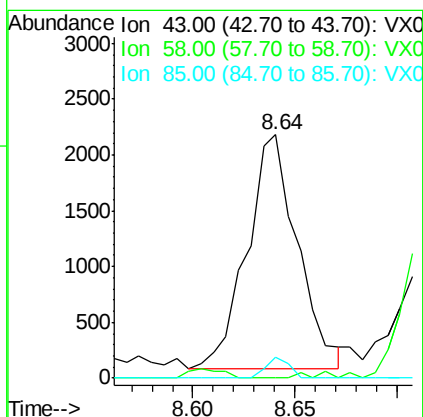
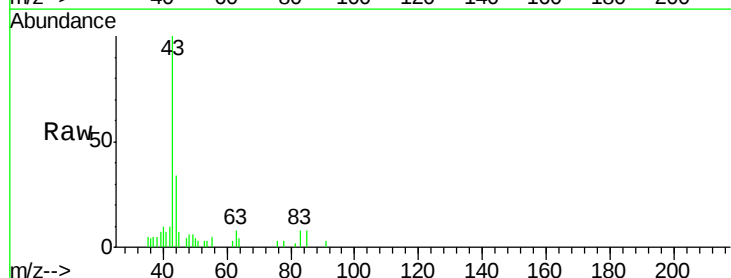
Instrument :
MSVOA_X
ClientSampleId :
14B-3

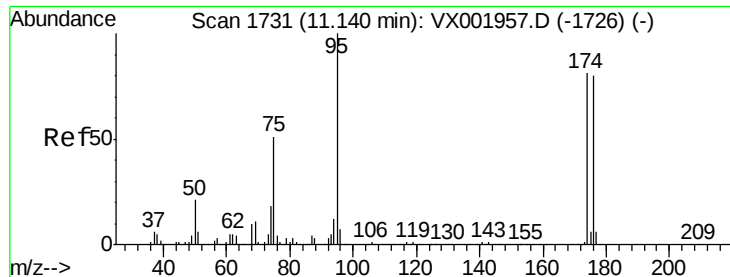
Tgt Ion: 117 Resp: 248458
Ion Ratio Lower Upper
117 100
82 55.3 44.3 66.5
119 32.1 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.67 ug/l
RT: 8.64 min Scan# 1321
Delta R.T. -0.02 min
Lab File: VX002150.D
Acq: 30 May 2018 21:18

Tgt Ion: 43 Resp: 3645
Ion Ratio Lower Upper
43 100
58 0.5 28.2 42.4#
85 4.1 12.4 18.6#





#60

4-Bromofluorobenzene

Concen: 26.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002150.D

Acq: 30 May 2018 21:18

Instrument :

MSVOA_X

ClientSampleId :

14B-3

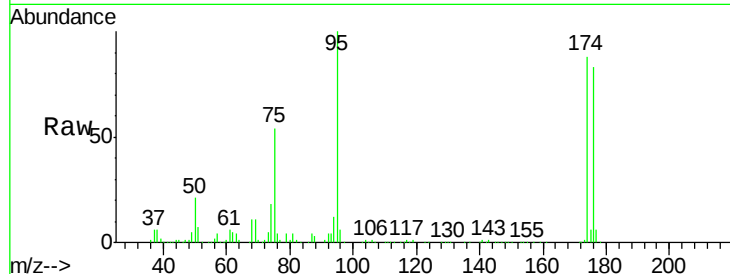
Tgt Ion: 95 Resp: 113530

Ion Ratio Lower Upper

95 100

174 91.3 71.8 107.6

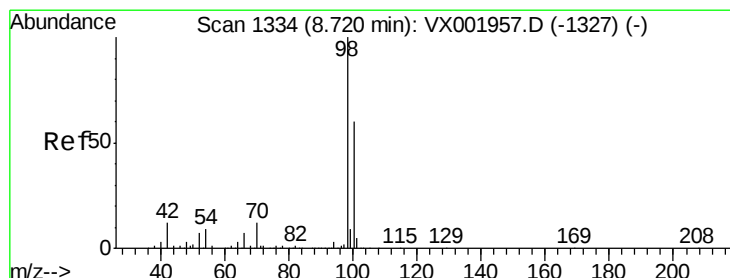
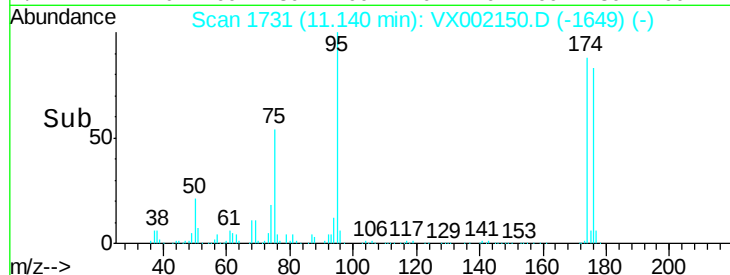
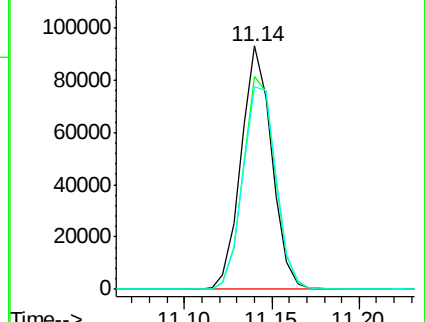
176 90.1 70.1 105.1



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 30.54 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002150.D

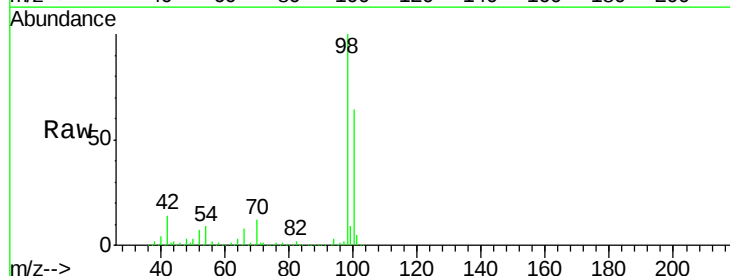
Acq: 30 May 2018 21:18

Tgt Ion: 98 Resp: 338221

Ion Ratio Lower Upper

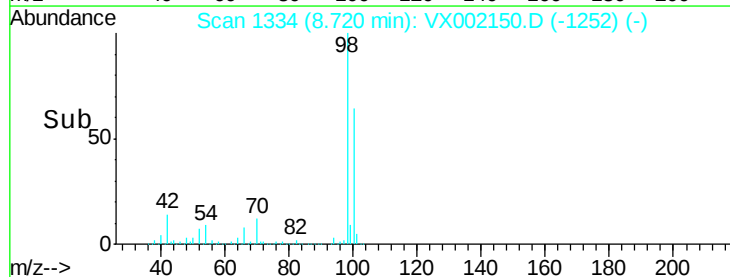
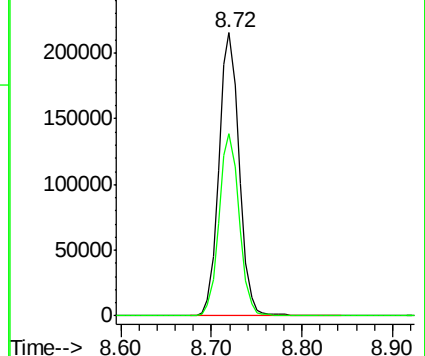
98 100

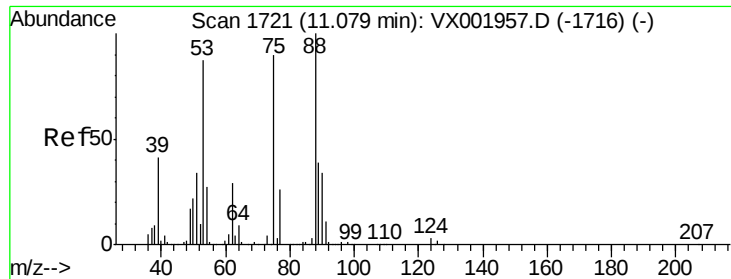
100 63.8 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#77
t-1,4-Dichloro-2-butene
Concen: 39.81 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002150.D
Acq: 30 May 2018 21:18

Instrument :
MSVOA_X
ClientSampleId :
14B-3

Tgt Ion: 75 Resp: 61809
Ion Ratio Lower Upper
75 100
53 0.0 48.3 144.9#
89 0.0 21.8 65.4#

