

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
 Data File : VX002155.D
 Acq On : 30 May 2018 23:31
 Operator : JC/MD
 Sample : J3192-04 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

Quant Time: May 31 02:12:25 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	37236	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	200749	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	173852	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	92702	31.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.47%
60) 4-Bromofluorobenzene	11.14	95	76887	25.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.13%
63) Toluene-d8	8.72	98	237541	30.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.20%

Target Compounds

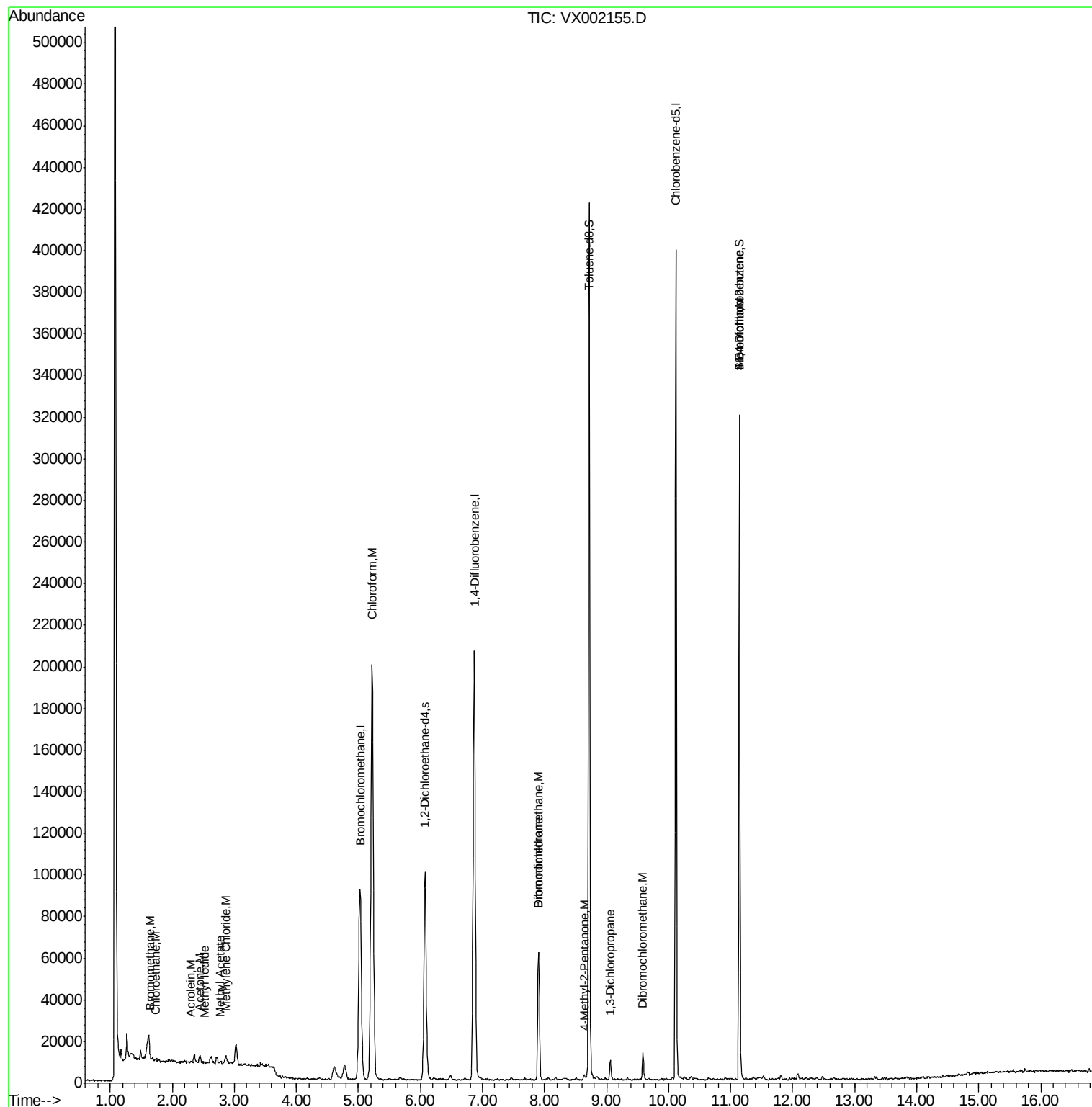
						Qvalue
5) Bromomethane	1.65	94	357	0.27	ug/l	94
6) Chloroethane	1.73	64	434	0.31	ug/l	95
11) Methyl Iodide	2.53	142	691	0.24	ug/l #	55
12) Methyl Acetate	2.78	43	940	0.31	ug/l #	77
13) Acrolein	2.30	56	346	1.35	ug/l	86
15) Acetone	2.45	58	945	2.87	ug/l	91
18) Methylene Chloride	2.86	84	1741	0.84	ug/l #	90
25) Chloroform	5.22	83	226319	55.39	ug/l	99
40) Dibromomethane	7.90	93	1225	0.80	ug/l #	1
41) Bromodichloromethane	7.90	83	36349	11.39	ug/l	99
52) 1,3-Dichloropropane	9.06	76	1340	0.36	ug/l #	43
53) Dibromochloromethane	9.59	129	3021	1.12	ug/l	96
56) Bromoform	11.14	173	743	0.31	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	2161	0.57	ug/l #	47
77) t-1,4-Dichloro-2-butene	11.14	75	41462	38.17	ug/l #	11

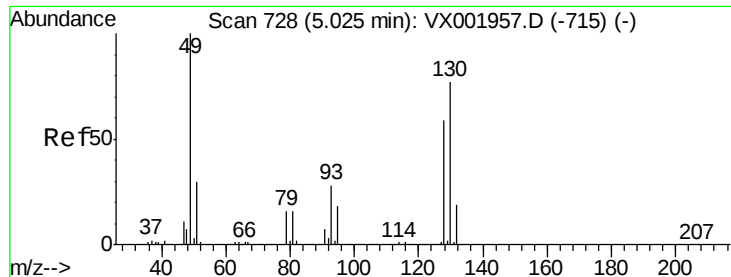
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
14B-4

Quant Time: May 31 02:12:25 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# 728

Delta R.T. -0.00 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

Instrument :

MSVOA_X

ClientSampled :

14B-4

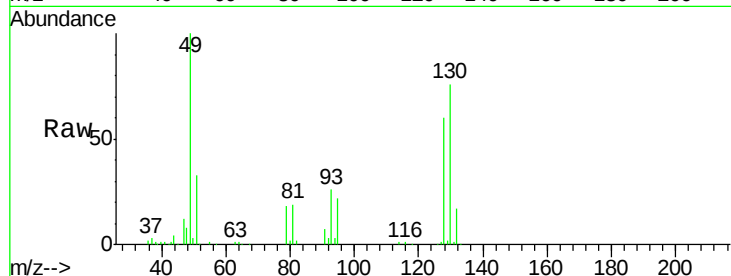
Tgt Ion:128 Resp: 37236

Ion Ratio Lower Upper

128 100

49 173.0 0.0 423.0

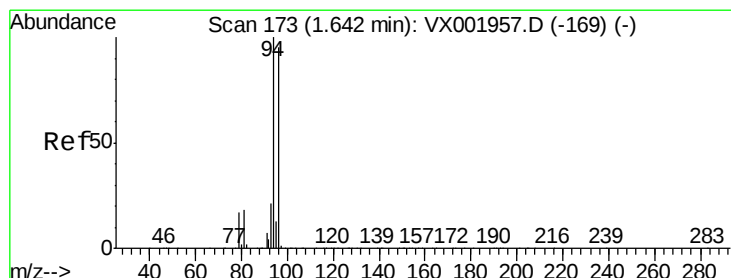
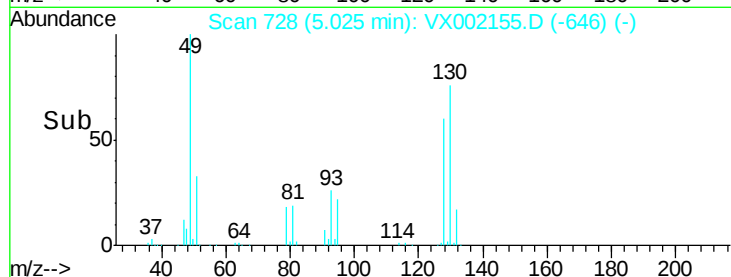
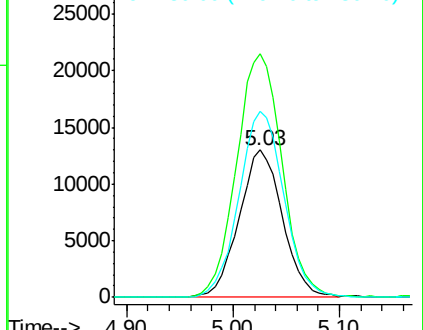
130 130.9 0.0 324.3



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



#5

Bromomethane

Concen: 0.27 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002155.D

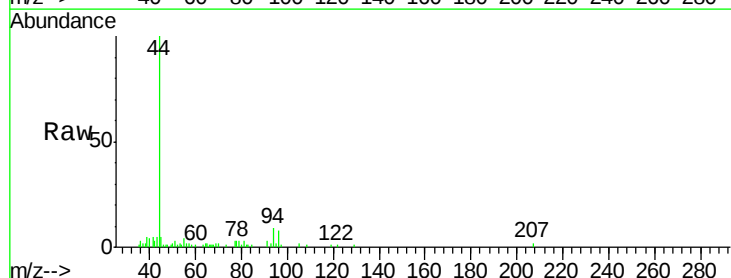
Acq: 30 May 2018 23:31

Tgt Ion: 94 Resp: 357

Ion Ratio Lower Upper

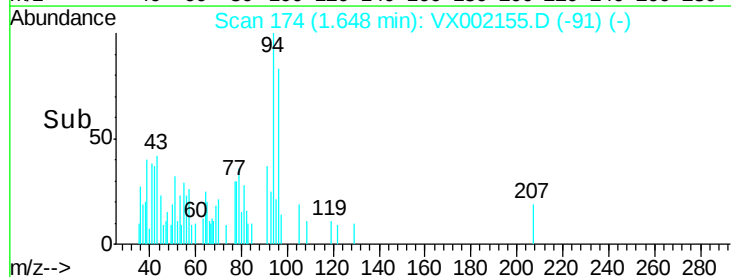
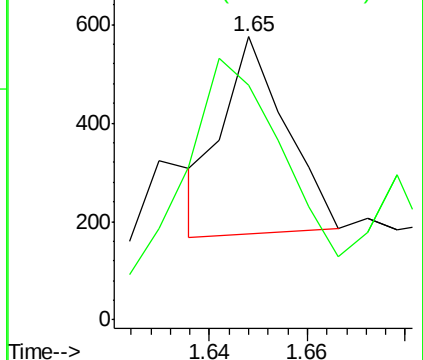
94 100

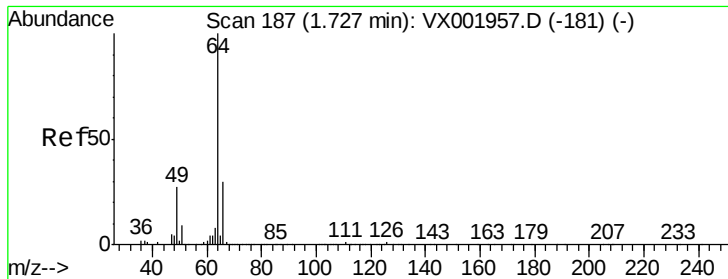
96 89.2 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 0.31 ug/l

RT: 1.73 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

Instrument :

MSVOA_X

ClientSampled :

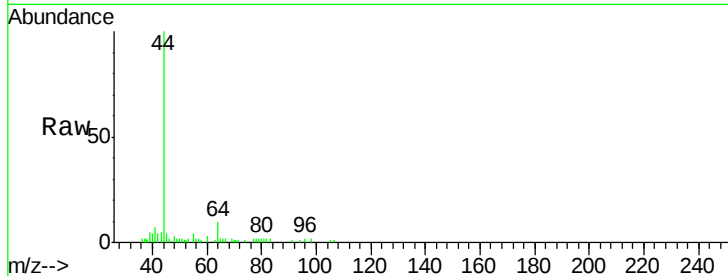
14B-4

Tgt Ion: 64 Resp: 434

Ion Ratio Lower Upper

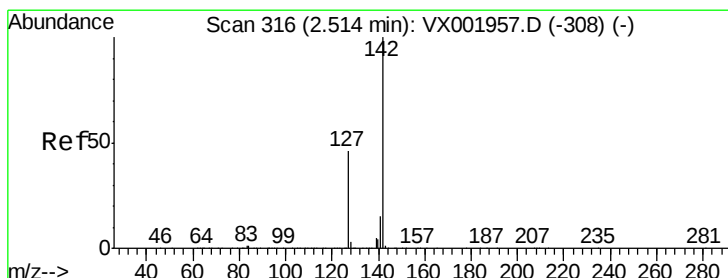
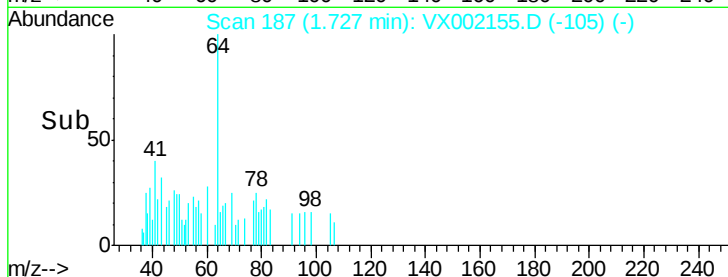
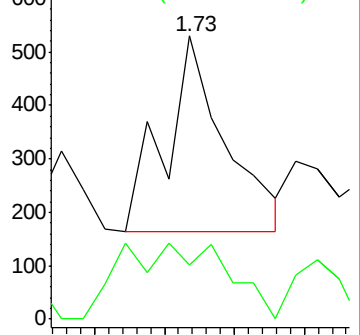
64 100

66 27.9 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#11

Methyl Iodide

Concen: 0.24 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

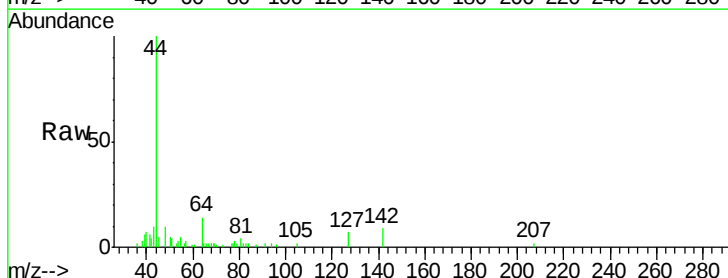
Tgt Ion: 142 Resp: 691

Ion Ratio Lower Upper

142 100

127 78.5 23.2 69.6#

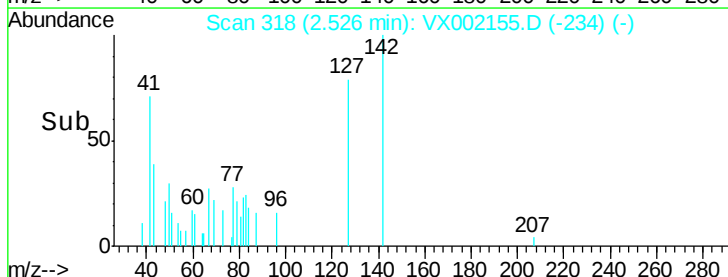
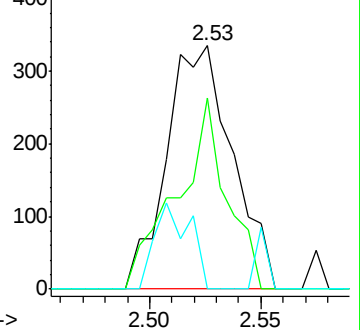
141 0.0 7.4 22.2#

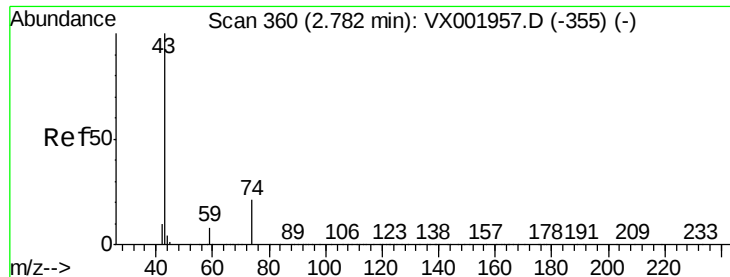


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

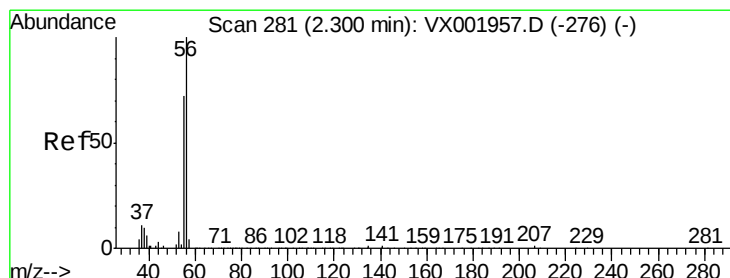
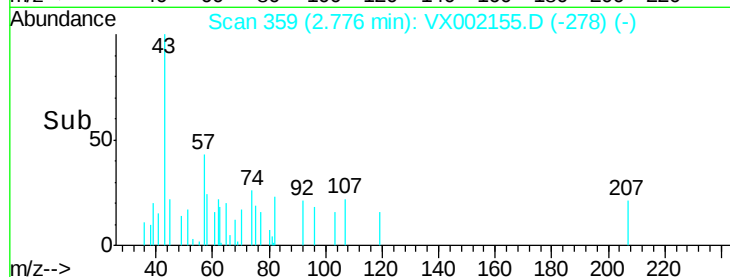
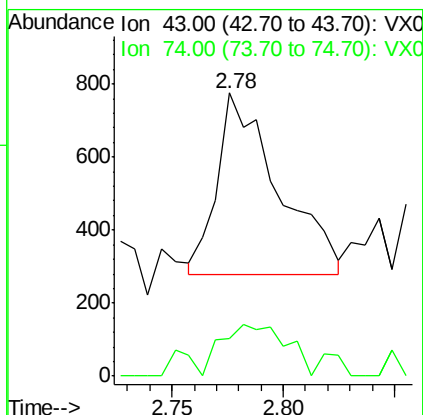
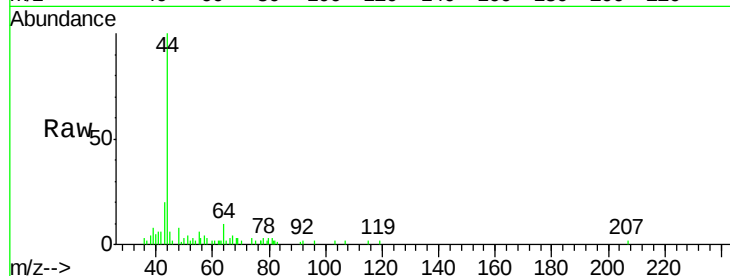




#12
Methyl Acetate
Concen: 0.31 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

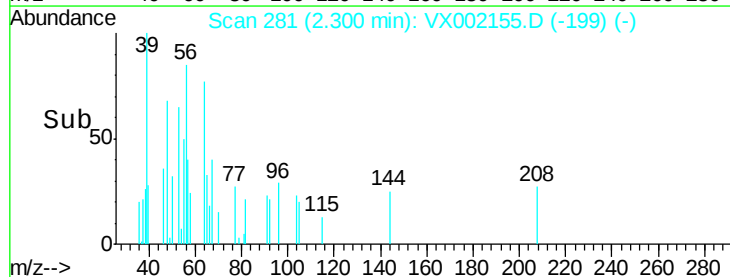
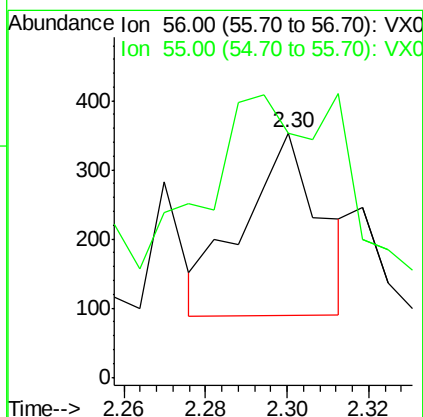
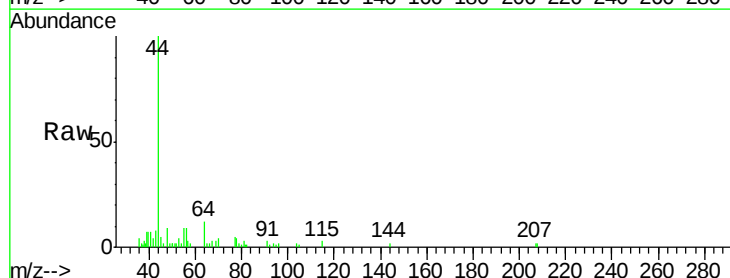
Instrument :
MSVOA_X
ClientSampled :
14B-4

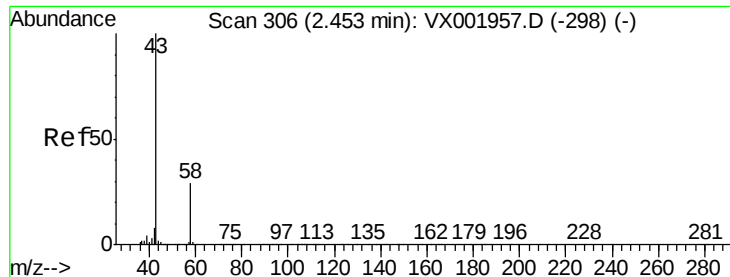
Tgt Ion: 43 Resp: 940
Ion Ratio Lower Upper
43 100
74 9.8 16.4 24.6#



#13
Acrolein
Concen: 1.35 ug/l
RT: 2.30 min Scan# 281
Delta R.T. -0.00 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

Tgt Ion: 56 Resp: 346
Ion Ratio Lower Upper
56 100
55 59.8 57.3 85.9





#15

Acetone

Concen: 2.87 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

Instrument :

MSVOA_X

ClientSampled :

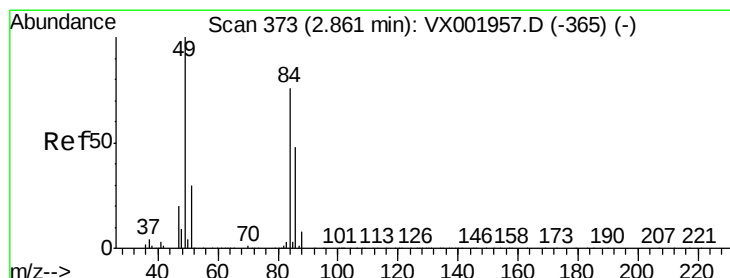
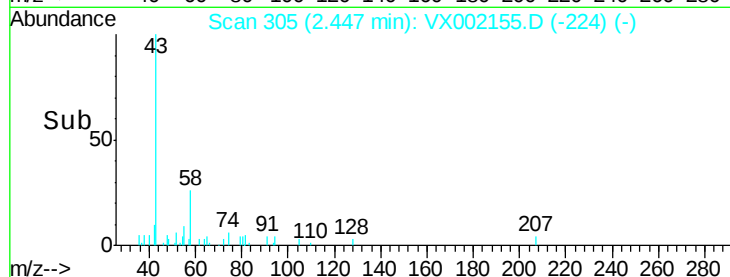
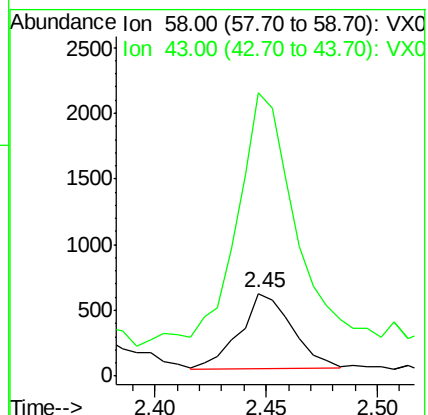
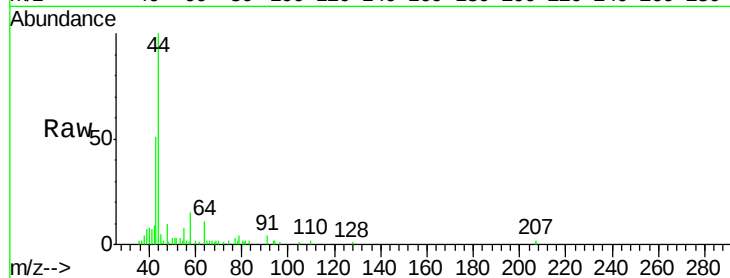
14B-4

Tgt Ion: 58 Resp: 945

Ion Ratio Lower Upper

58 100

43 329.6 278.8 418.2



#18

Methylene Chloride

Concen: 0.84 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

Tgt Ion: 84 Resp: 1741

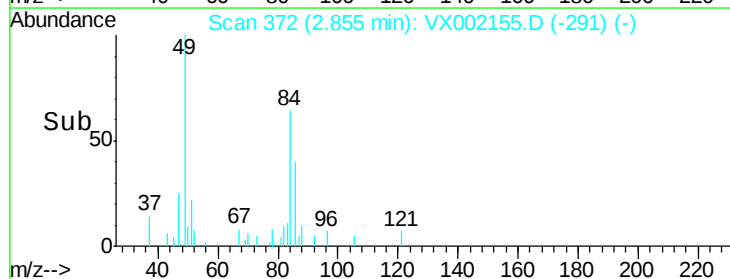
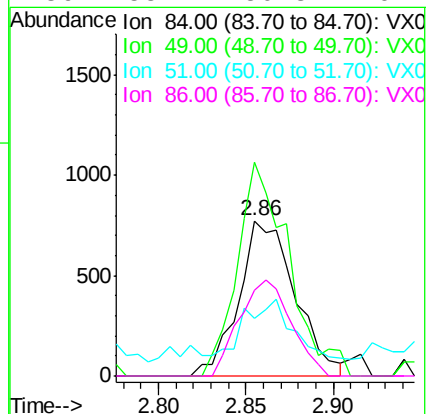
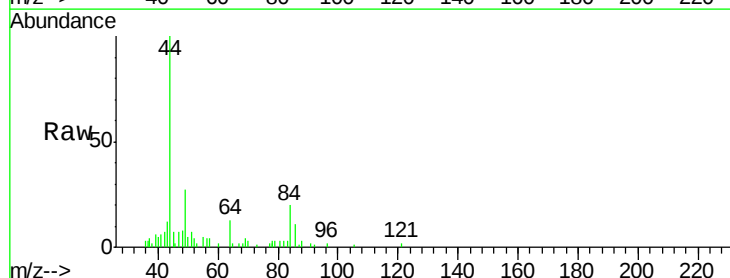
Ion Ratio Lower Upper

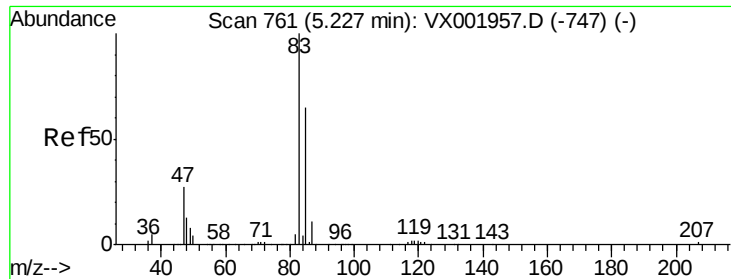
84 100

49 137.6 104.7 157.1

51 25.9 31.0 46.4#

86 55.1 50.8 76.2

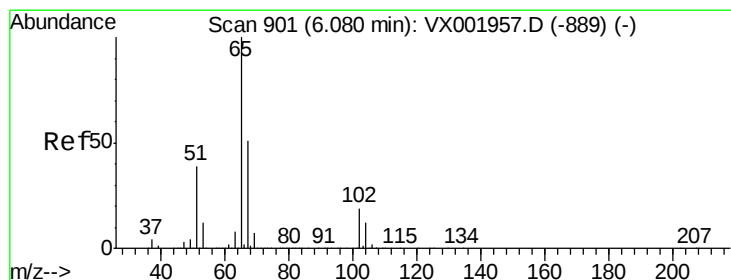
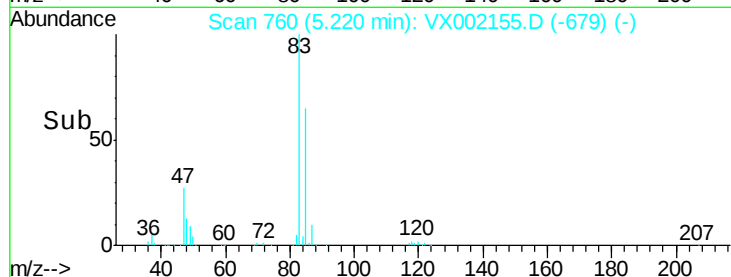
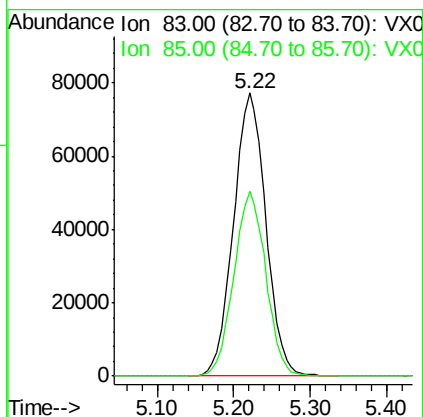
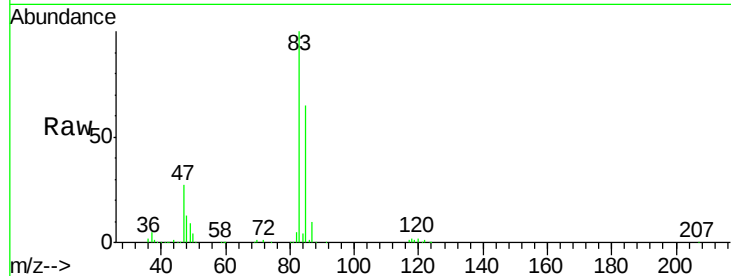




#25
Chloroform
Concen: 55.39 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.01 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

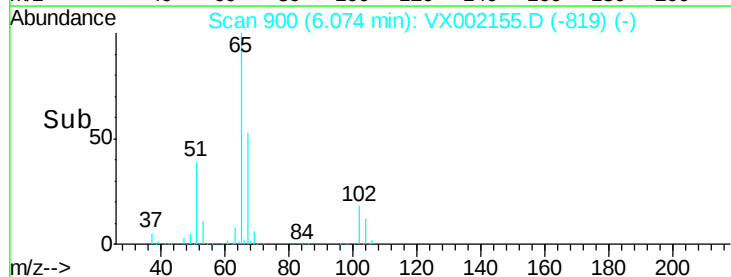
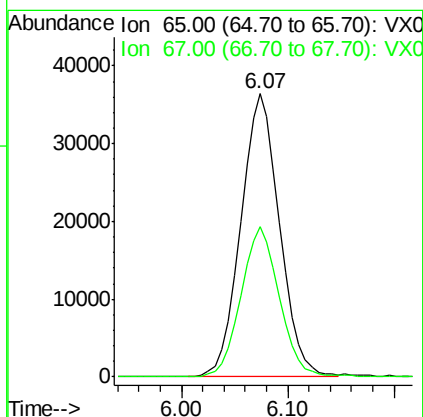
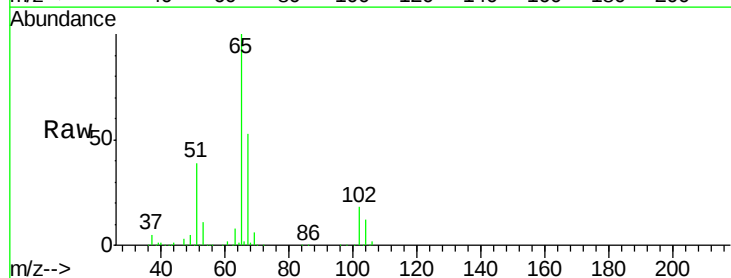
Instrument :
MSVOA_X
ClientSampled :
14B-4

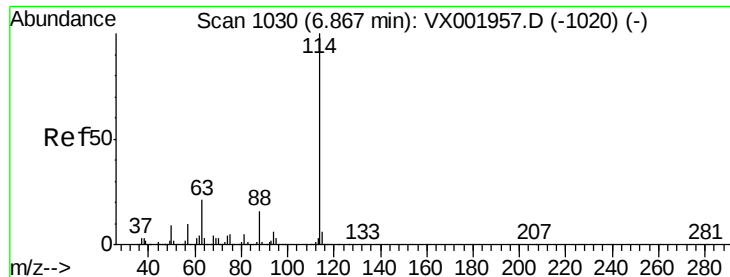
Tgt Ion: 83 Resp: 226319
Ion Ratio Lower Upper
83 100
85 65.3 51.9 77.9



#27
1,2-Dichloroethane-d4
Concen: 31.64 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.01 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

Tgt Ion: 65 Resp: 92702
Ion Ratio Lower Upper
65 100
67 52.2 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: VX002155.D

Acq: 30 May 2018 23:31

Instrument :

MSVOA_X

ClientSampleId :

14B-4

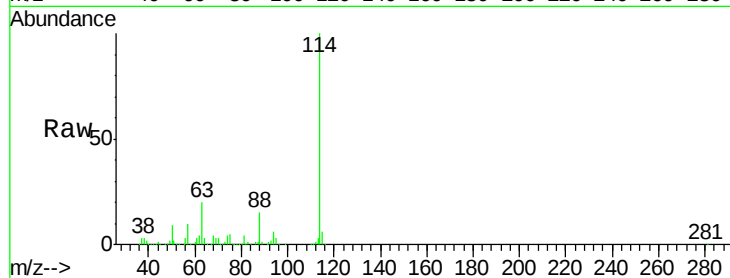
Tgt Ion: 114 Resp: 200749

Ion Ratio Lower Upper

114 100

63 21.6 17.1 25.7

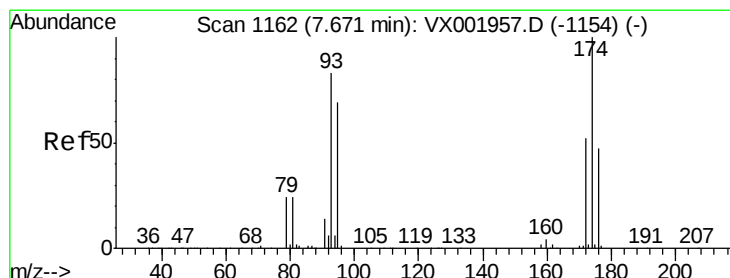
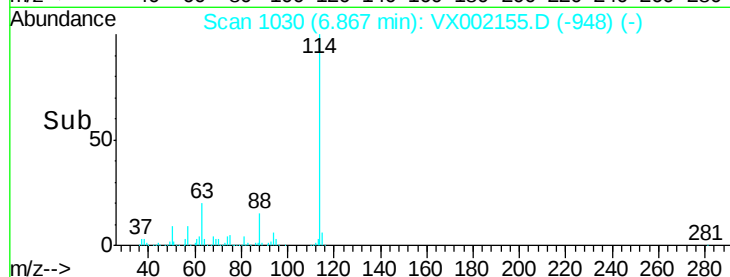
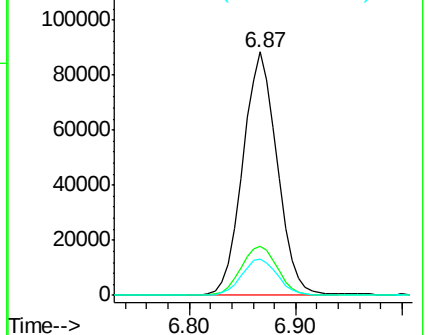
88 15.6 12.6 19.0



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: 0.80 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.23 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

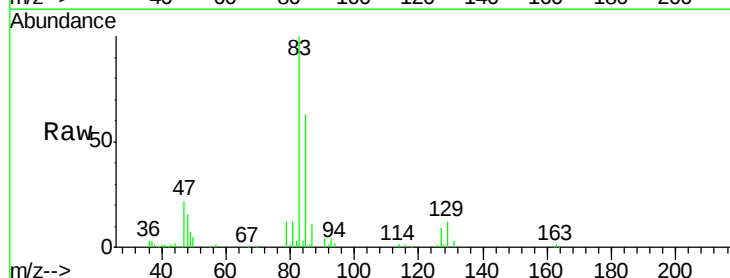
Tgt Ion: 93 Resp: 1225

Ion Ratio Lower Upper

93 100

95 0.0 0.0 162.6

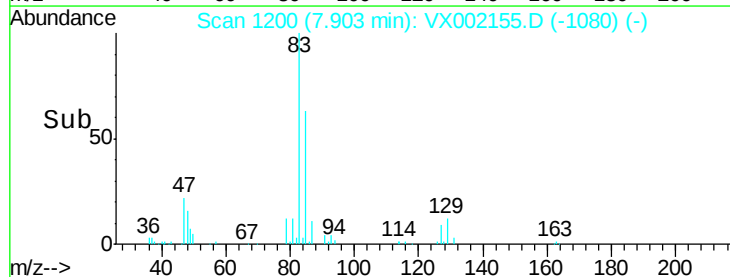
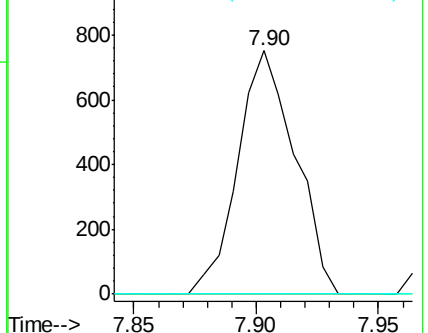
174 0.0 0.0 229.4

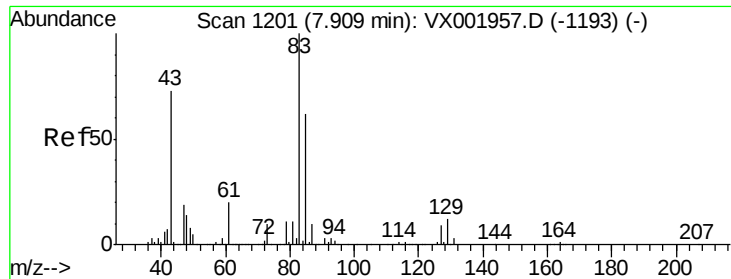


Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 11.39 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

Instrument :

MSVOA_X

ClientSampled :

14B-4

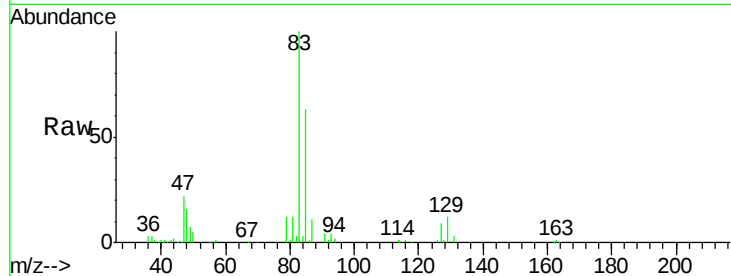
Tgt Ion: 83 Resp: 36349

Ion Ratio Lower Upper

83 100

85 63.4 49.8 74.8

127 9.1 7.3 10.9

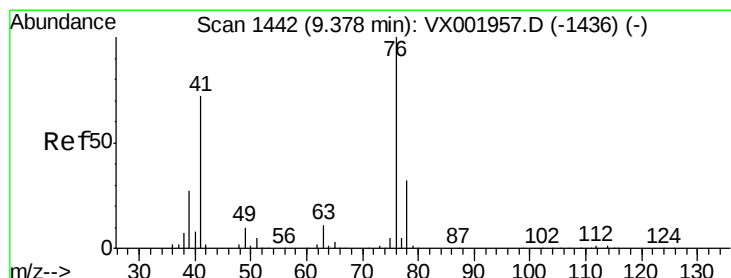
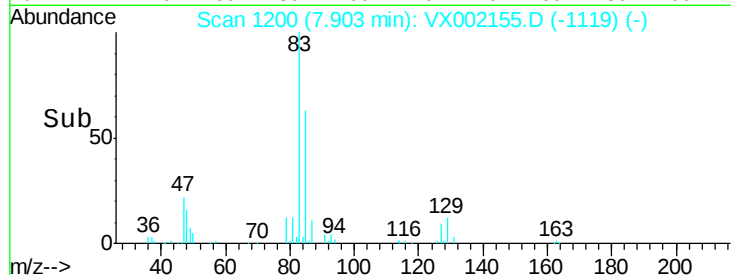


Abundance Ion 83.00 (82.70 to 83.70): VX002155.D (-1119) (-)

Ion 85.00 (84.70 to 85.70): VX002155.D (-1119) (-)

Ion 127.00 (126.70 to 127.70): VX002155.D (-1119) (-)

Time-->



#52

1,3-Dichloropropane

Concen: 0.36 ug/l

RT: 9.06 min Scan# 1390

Delta R.T. -0.32 min

Lab File: VX002155.D

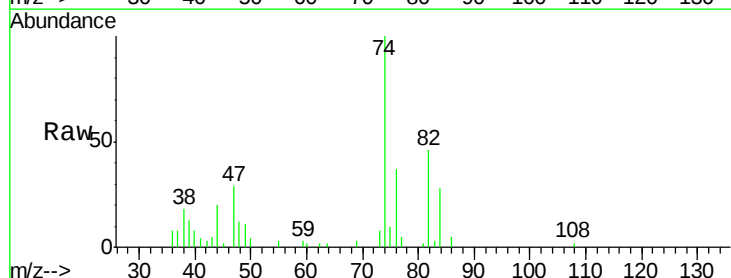
Acq: 30 May 2018 23:31

Tgt Ion: 76 Resp: 1340

Ion Ratio Lower Upper

76 100

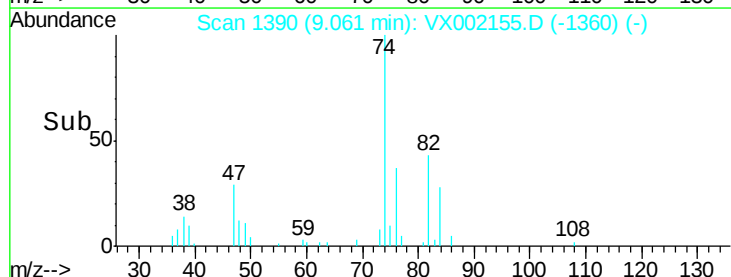
78 0.0 0.0 63.4

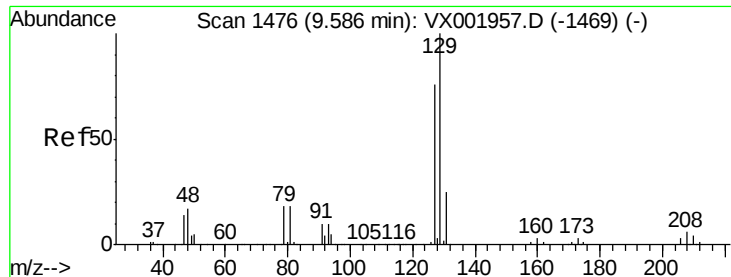


Abundance Ion 76.00 (75.70 to 76.70): VX002155.D (-1360) (-)

Ion 78.00 (77.70 to 78.70): VX002155.D (-1360) (-)

Time-->

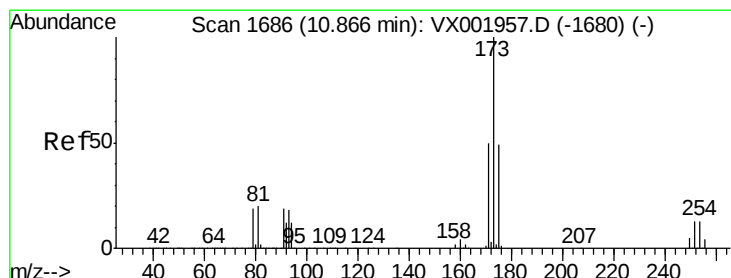
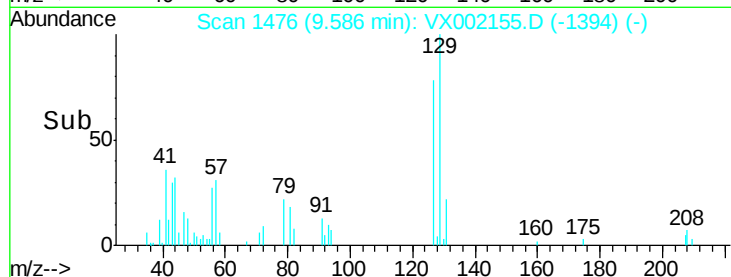
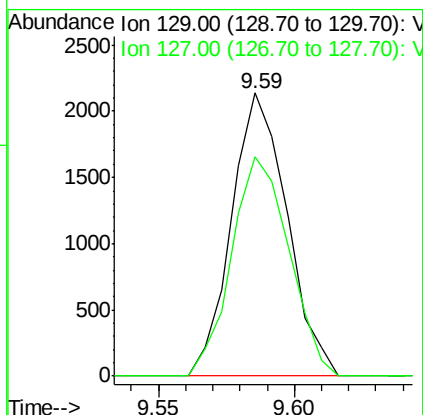
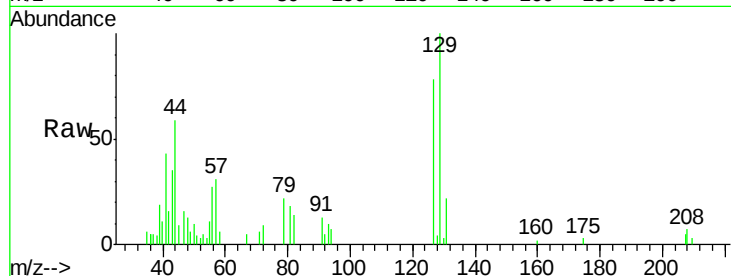




#53
Dibromochloromethane
Concen: 1.12 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

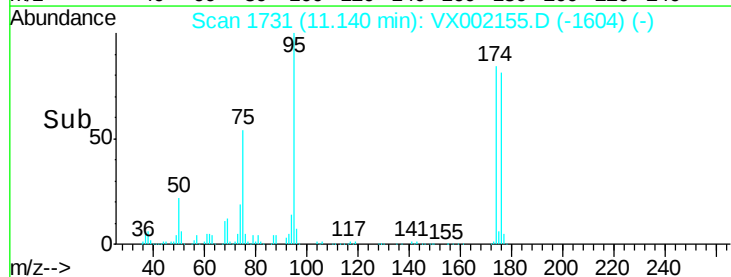
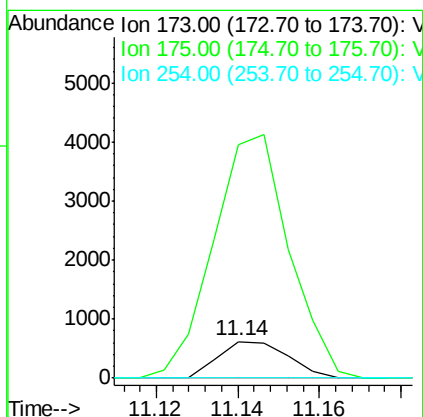
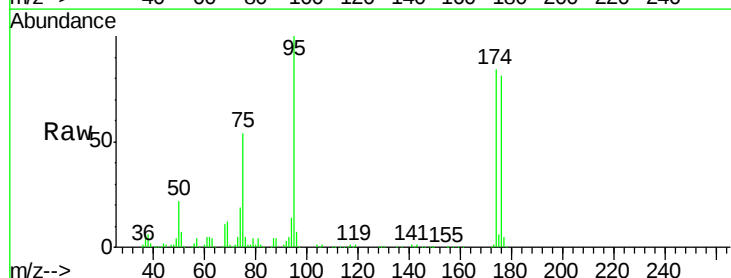
Instrument :
MSVOA_X
ClientSampleId :
14B-4

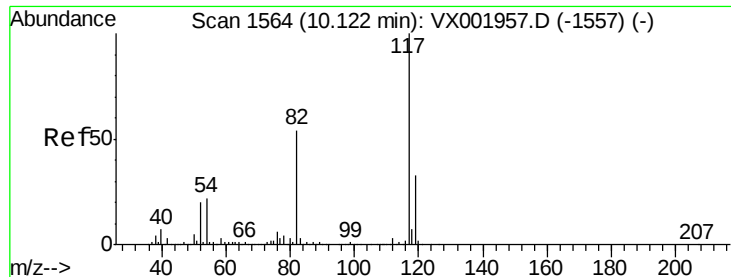
Tgt Ion:129 Resp: 3021
Ion Ratio Lower Upper
129 100
127 80.3 38.5 115.3



#56
Bromoform
Concen: 0.31 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.27 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

Tgt Ion:173 Resp: 743
Ion Ratio Lower Upper
173 100
175 718.8 39.0 58.4#
254 0.0 9.6 14.4#

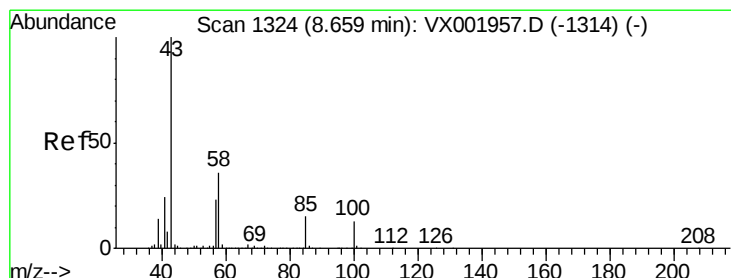
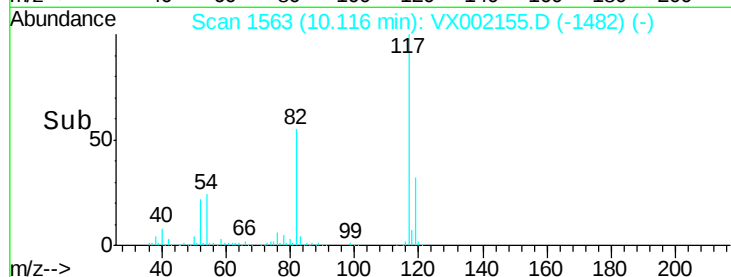
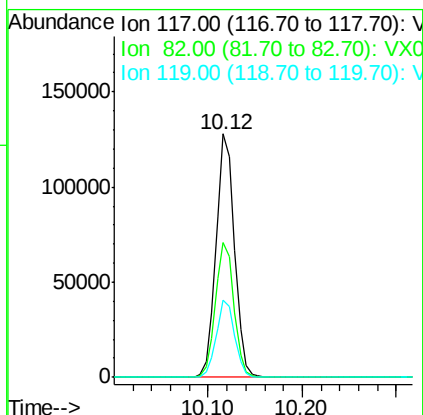
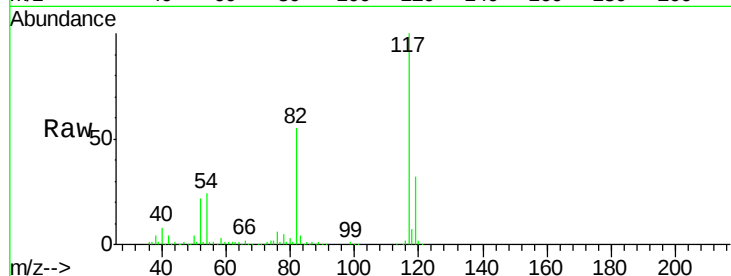




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

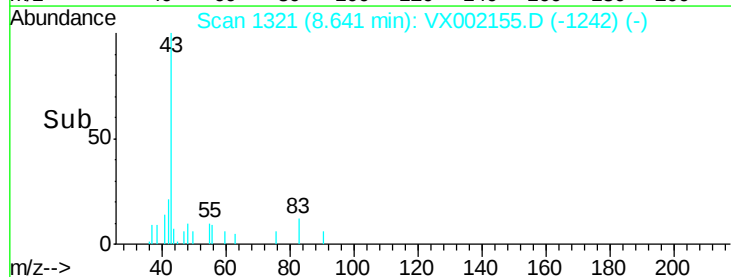
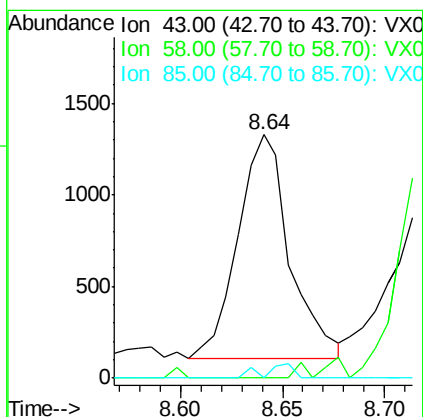
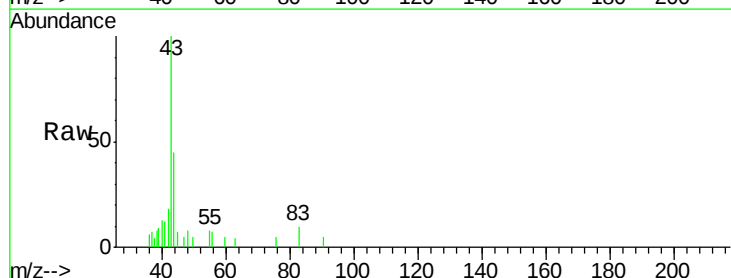
Instrument :
MSVOA_X
ClientSampleId :
14B-4

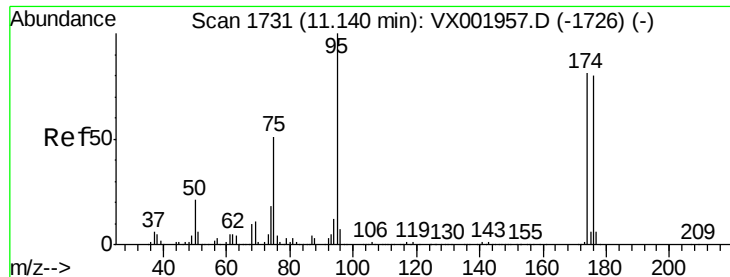
Tgt Ion: 117 Resp: 173852
Ion Ratio Lower Upper
117 100
82 55.6 44.3 66.5
119 31.6 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.57 ug/l
RT: 8.64 min Scan# 1321
Delta R.T. -0.02 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

Tgt Ion: 43 Resp: 2161
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.4#
85 0.9 12.4 18.6#





#60

4-Bromofluorobenzene

Concen: 25.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002155.D

Acq: 30 May 2018 23:31

Instrument :

MSVOA_X

ClientSampled :

14B-4

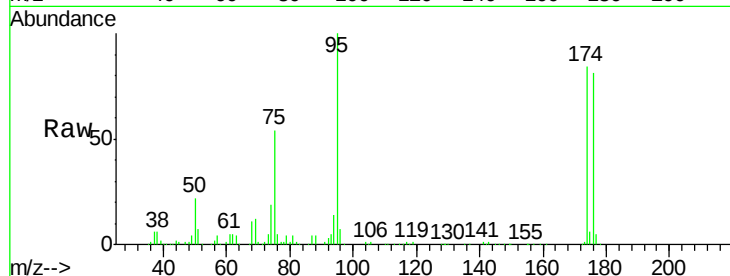
Tgt Ion: 95 Resp: 76887

Ion Ratio Lower Upper

95 100

174 92.5 71.8 107.6

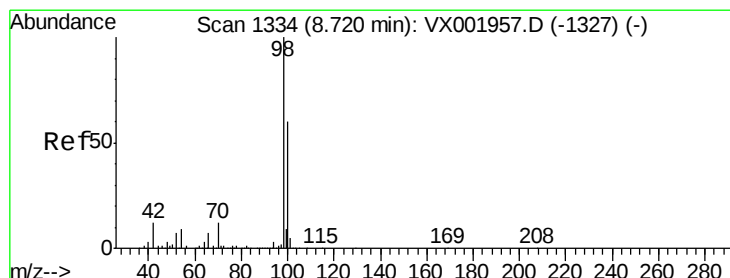
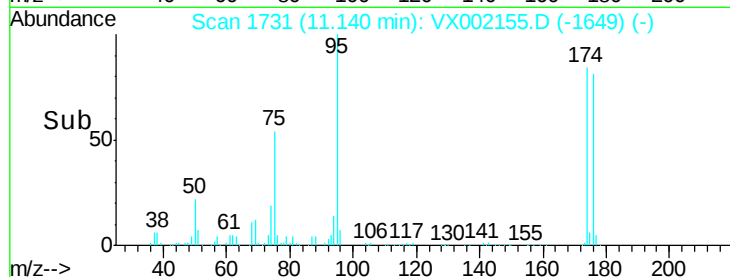
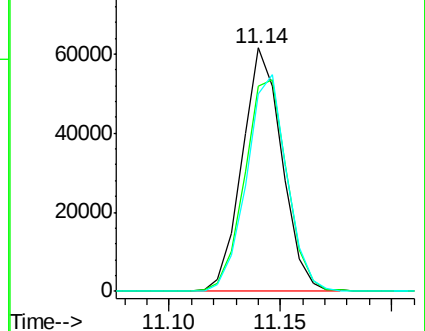
176 89.8 70.1 105.1



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: 30.66 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002155.D

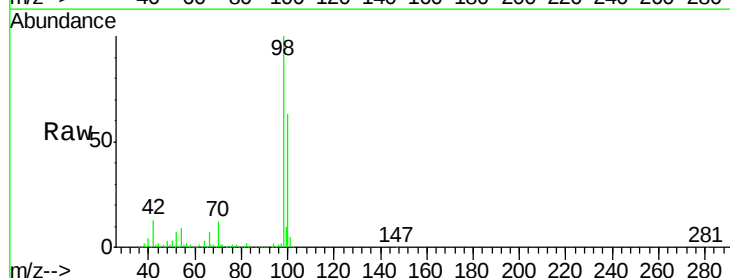
Acq: 30 May 2018 23:31

Tgt Ion: 98 Resp: 237541

Ion Ratio Lower Upper

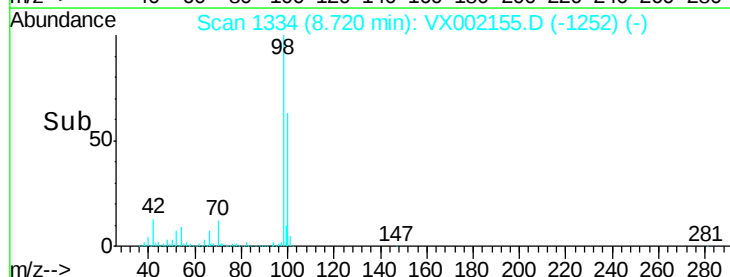
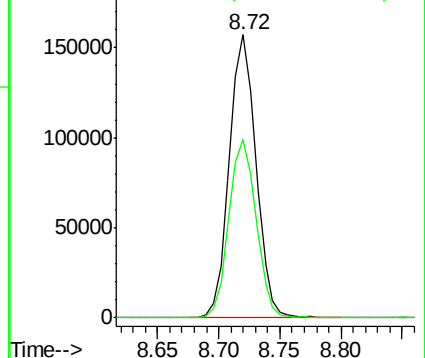
98 100

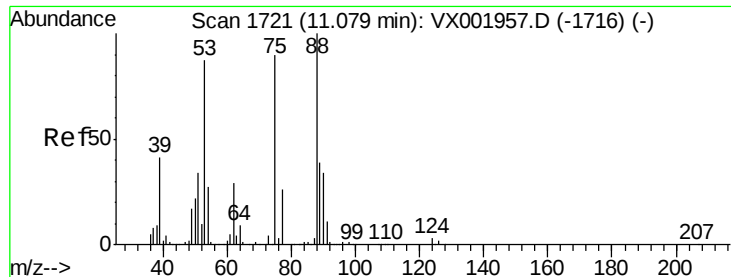
100 63.9 50.8 76.2



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: 38.17 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002155.D
Acq: 30 May 2018 23:31

Instrument :
MSVOA_X
ClientSampleId :
14B-4

Tgt Ion: 75 Resp: 41462
Ion Ratio Lower Upper
75 100
53 0.0 48.3 144.9#
89 0.0 21.8 65.4#

