

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002812.D
 Acq On : 22 Jun 2018 02:40
 Operator : JC/MD
 Sample : PB110441ZHE#15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 05:21:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	238061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	335822	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	318247	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	180457	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	165038	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	
35) Dibromofluoromethane	5.51	113	130112	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	8.72	98	483668	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
62) 4-Bromofluorobenzene	11.14	95	167992	43.56	ug/l	0.00
Spiked Amount			Recovery	=	87.12%	

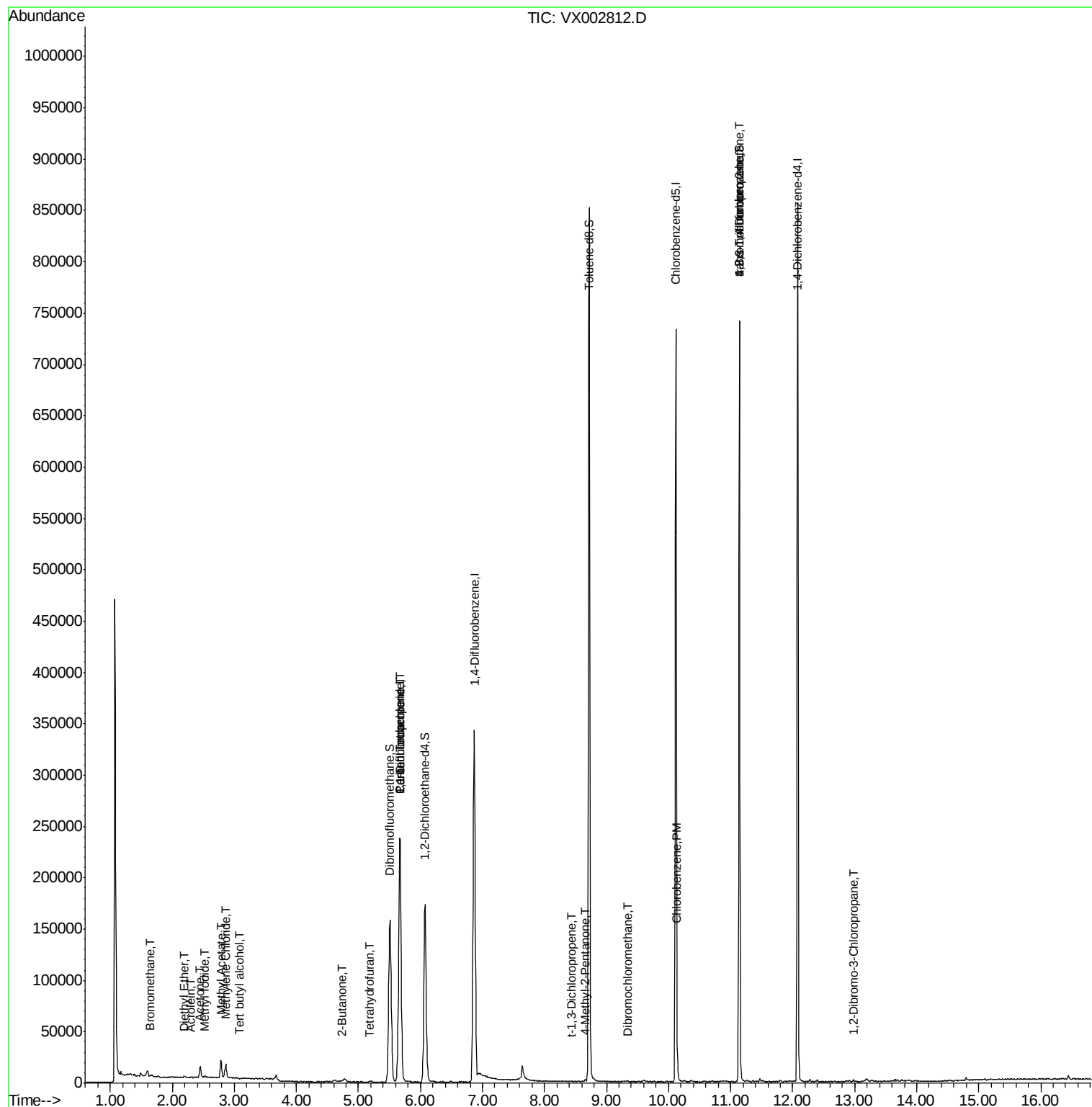
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	495	0.26	ug/l	96
8) Diethyl Ether	2.18	74	569	0.30	ug/l	89
10) Methyl Iodide	2.52	142	1431	5.52	ug/l	98
11) Tert butyl alcohol	3.07	59	364	0.49	ug/l #	37
13) Acrolein	2.29	56	391	7.95	ug/l #	75
16) Acetone	2.45	43	13317	8.34	ug/l	97
18) Methyl Acetate	2.78	43	21765	5.12	ug/l	97
20) Methylene Chloride	2.86	84	6119	1.87	ug/l	95
25) 2-Butanone	4.72	43	2284	1.09	ug/l	97
29) Tetrahydrofuran	5.18	42	691	0.50	ug/l #	75
36) 1,1-Dichloropropene	5.67	75	16209	4.54	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21965	6.18	ug/l #	15
51) 4-Methyl-2-Pentanone	8.65	43	1300	0.30	ug/l	90
53) t-1,3-Dichloropropene	8.44	75	46	2.40	ug/l #	30
60) Dibromochloromethane	9.35	129	118	3.80	ug/l #	11
65) Chlorobenzene	10.14	112	3146	0.40	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	90846	26.68	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	90846	82.41	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	343	0.46	ug/l #	1

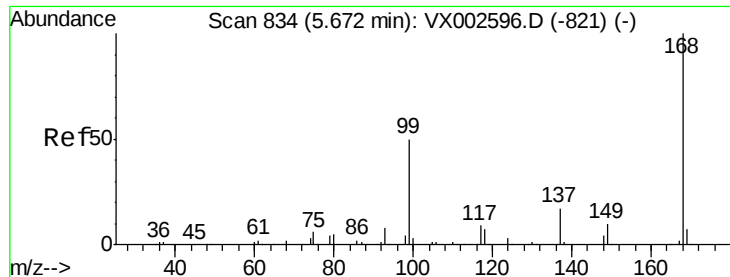
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

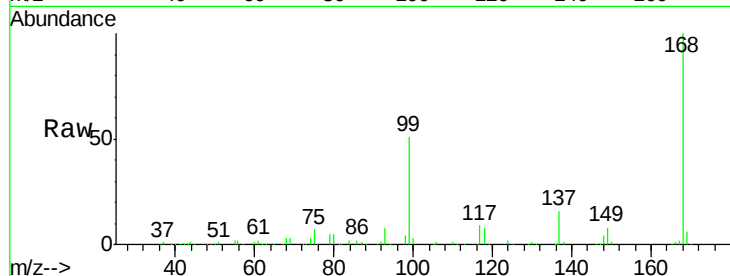
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 238061

Ion Ratio Lower Upper

168 100

99 50.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

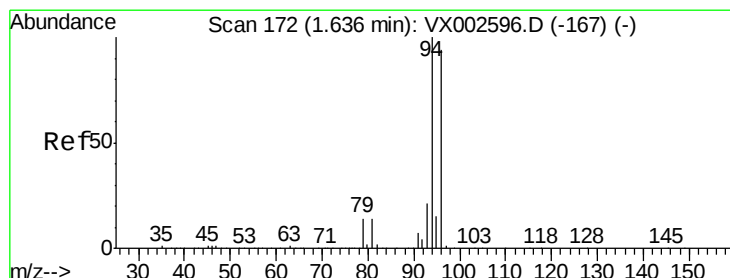
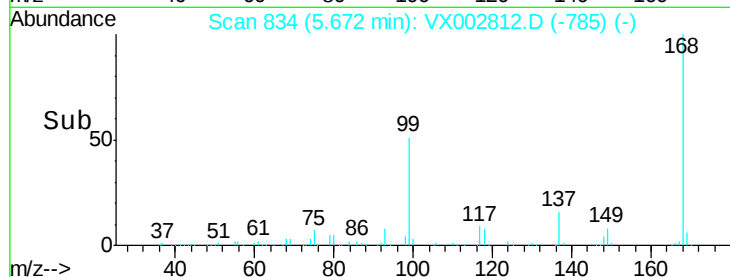
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.26 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002812.D

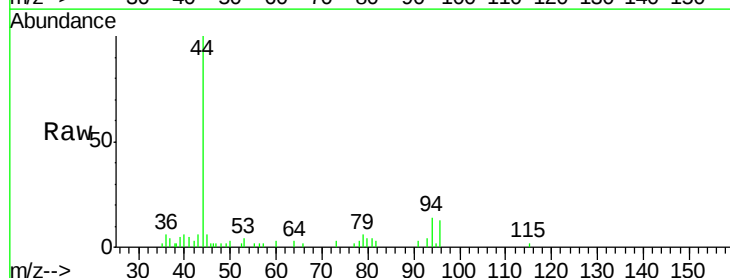
Acq: 22 Jun 2018 02:40

Tgt Ion: 94 Resp: 495

Ion Ratio Lower Upper

94 100

96 89.9 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

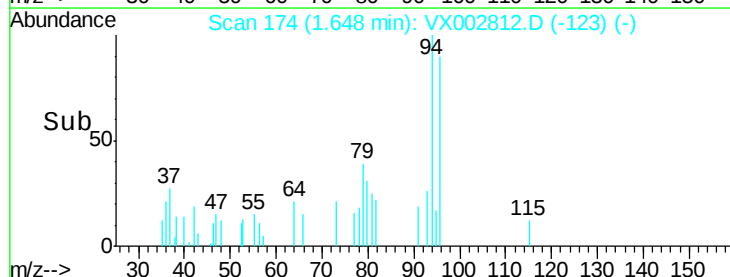
300

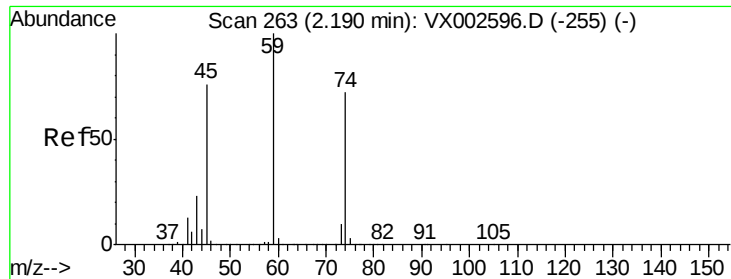
200

100

0

Time--> 1.62 1.64 1.66

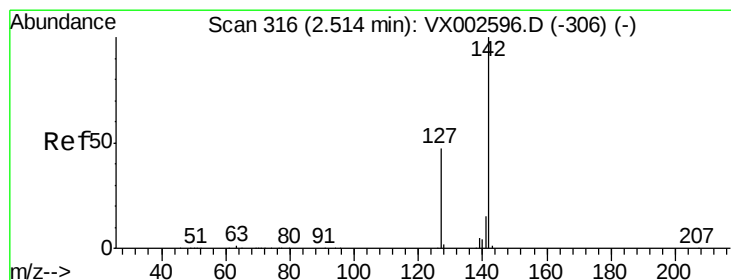
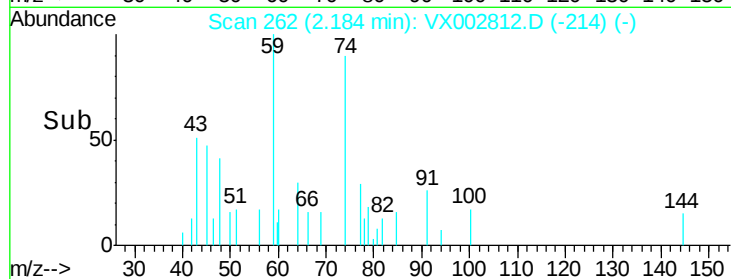
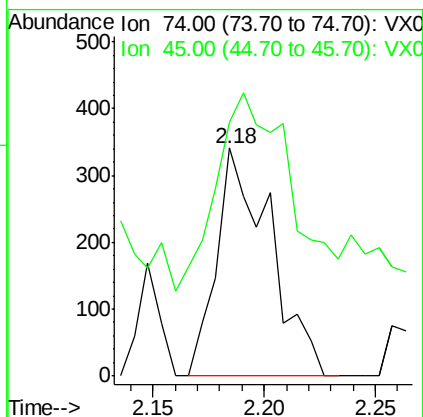
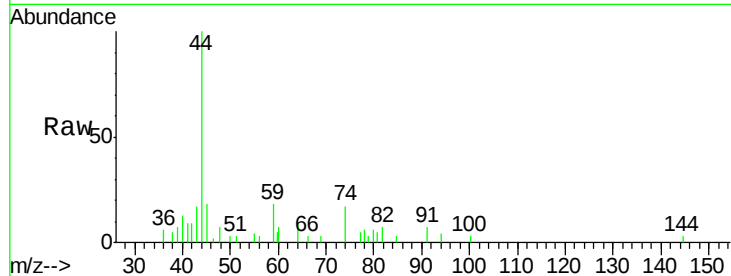




#8
Diethyl Ether
Concen: 0.30 ug/l
RT: 2.18 min Scan# 262
Delta R.T. -0.01 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

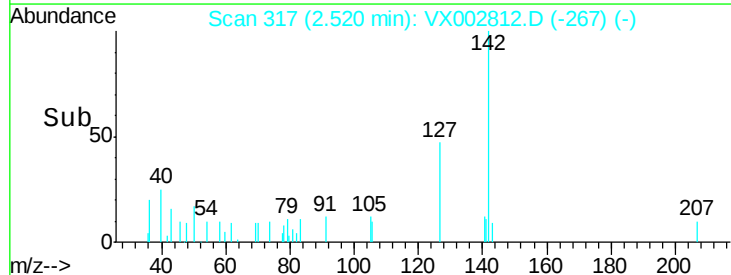
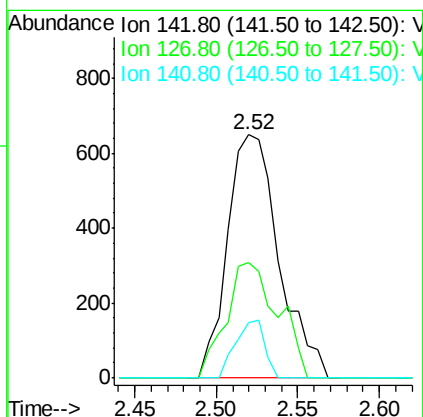
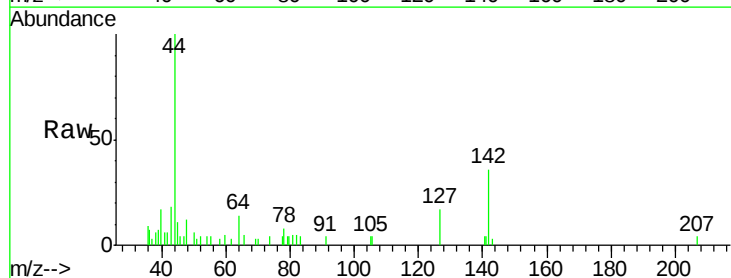
Instrument :
MSVOA_X
ClientSampleId :

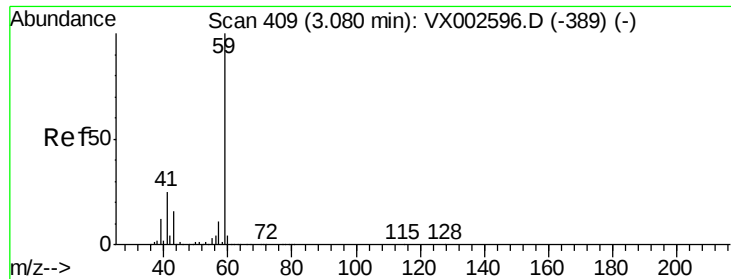
Tot Ion: 74 Resp: 569
Ion Ratio Lower Upper
74 100
45 118.1 53.1 159.4



#10
Methyl Iodide
Concen: 5.52 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

Tgt Ion: 142 Resp: 1431
Ion Ratio Lower Upper
142 100
127 47.5 36.6 55.0
141 13.4 11.3 16.9



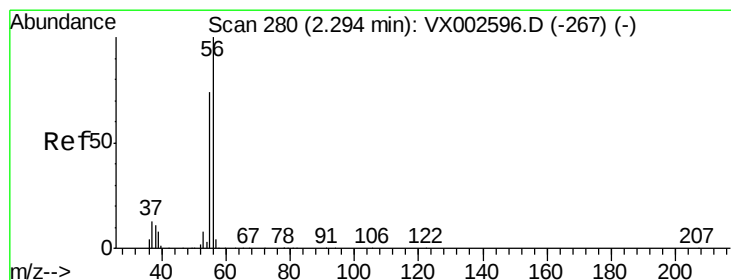
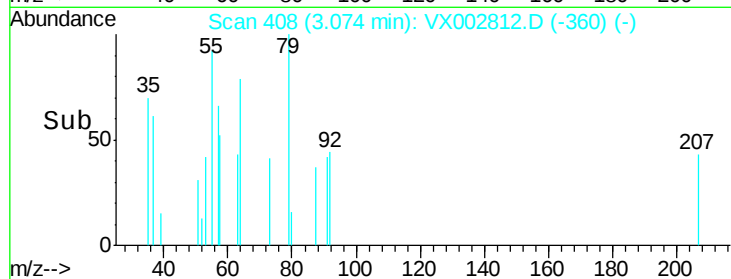
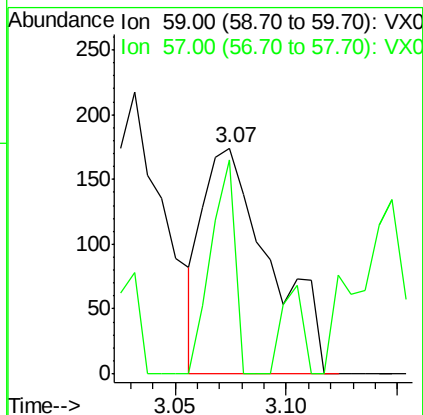
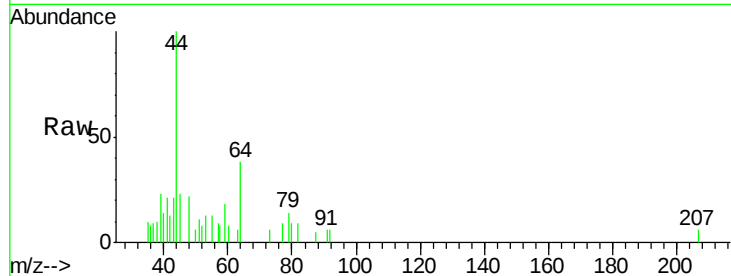


#11

Tert butvl alcohol
Concen: 0.49 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

Instrument :
MSVOA_X
ClientSampled :

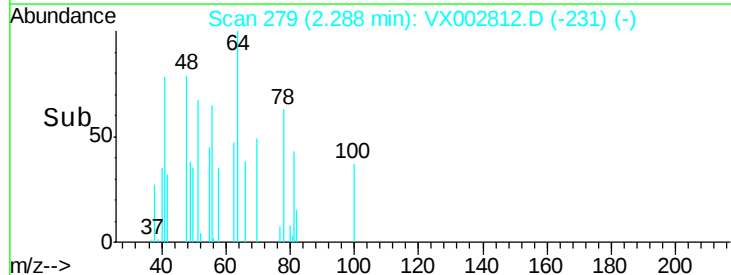
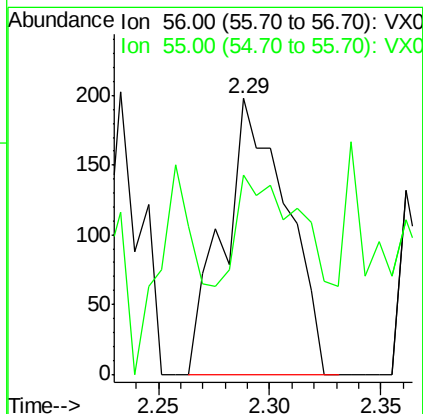
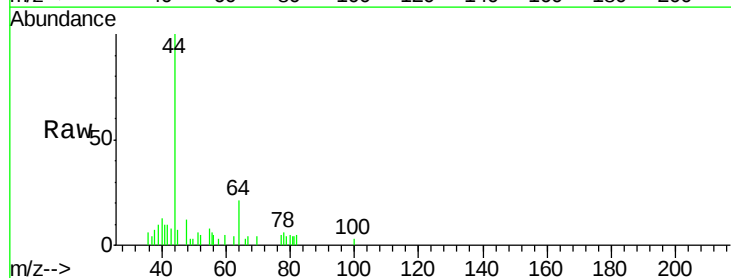
Tot Ion: 59 Resp: 364
Ion Ratio Lower Upper
59 100
57 33.8 8.2 12.2#

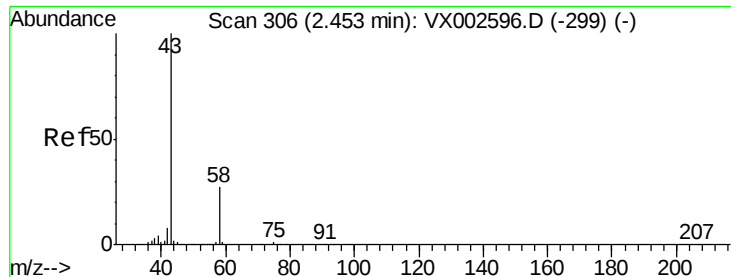


#13

Acrolein
Concen: 7.95 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

Tgt Ion: 56 Resp: 391
Ion Ratio Lower Upper
56 100
55 50.6 57.0 85.4#





#16

Acetone

Concen: 8.34 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :

MSVOA_X

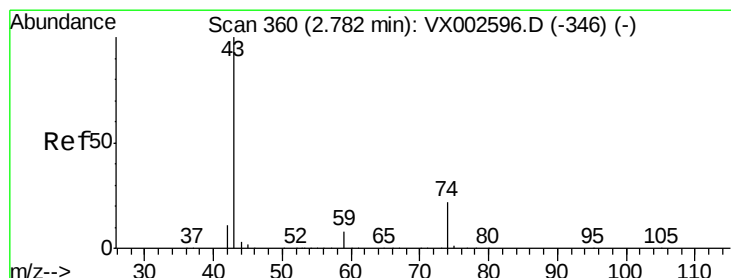
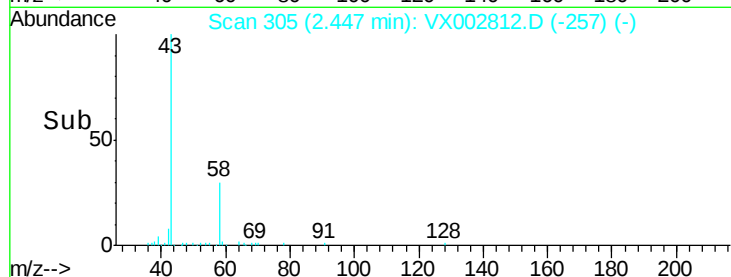
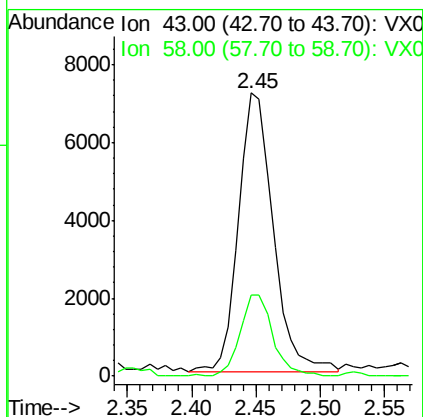
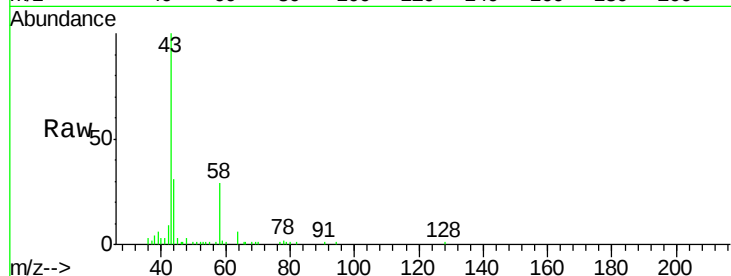
ClientSampleId :

Tot Ion: 43 Resp: 13317

Ion Ratio Lower Upper

43 100

58 29.1 22.1 33.1



#18

Methyl Acetate

Concen: 5.12 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002812.D

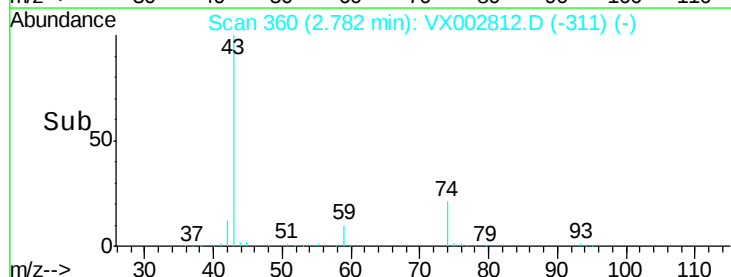
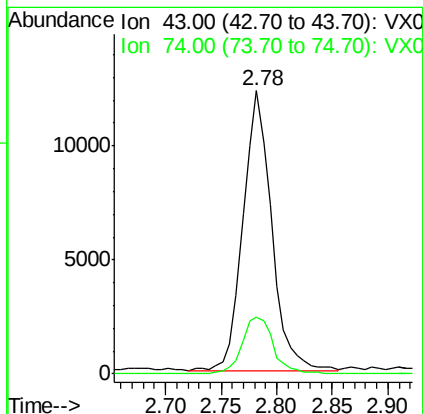
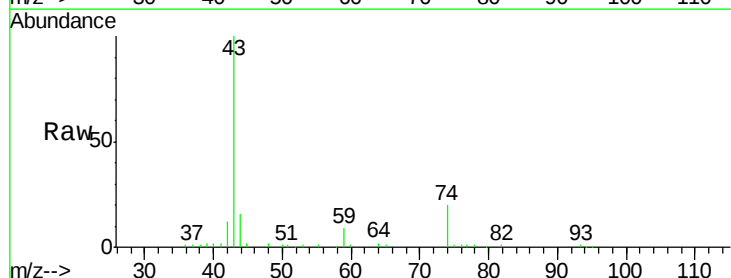
Acq: 22 Jun 2018 02:40

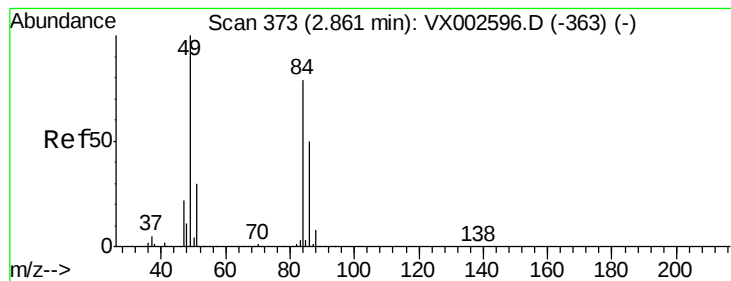
Tgt Ion: 43 Resp: 21765

Ion Ratio Lower Upper

43 100

74 22.4 16.7 25.1





#20

Methylene Chloride

Concen: 1.87 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 6119

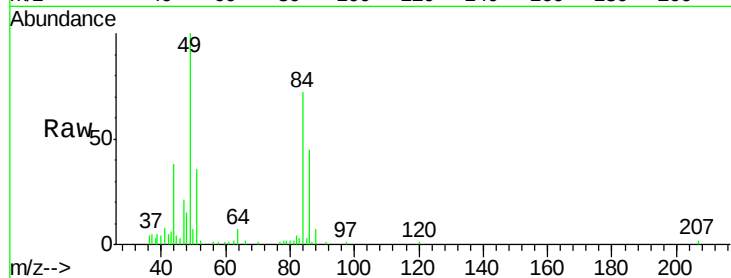
Ion	Ratio	Lower	Upper
84	100		
49	139.8	107.8	161.6
51	48.8	32.8	49.2
86	63.1	52.5	78.7

84 100

49 139.8 107.8 161.6

51 48.8 32.8 49.2

86 63.1 52.5 78.7



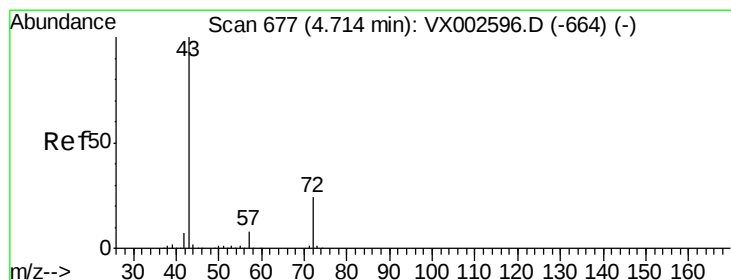
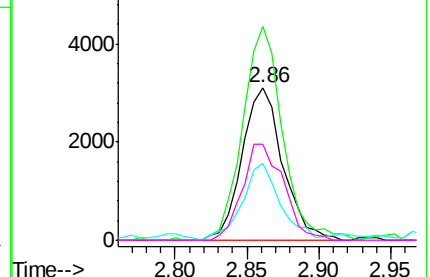
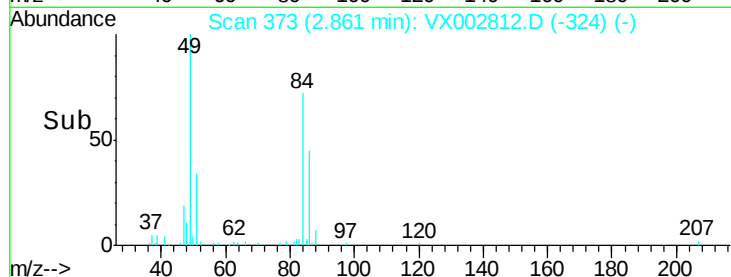
Abundance Ion 83.90 (83.60 to 84.60): VX0

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

Time-->



#25

2-Butanone

Concen: 1.09 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002812.D

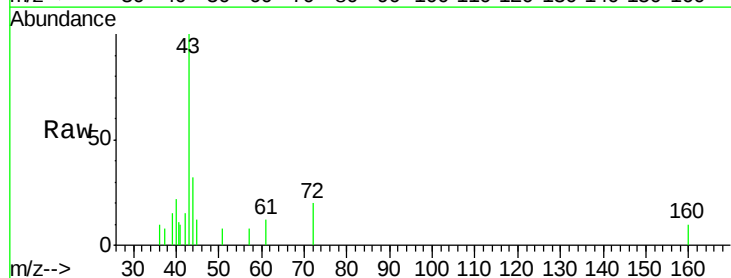
Acq: 22 Jun 2018 02:40

Tgt Ion: 43 Resp: 2284

Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.5	27.7

43 100

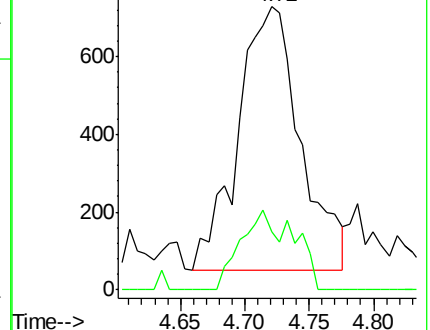
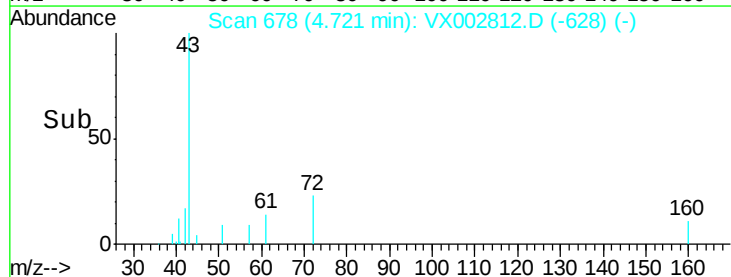
72 21.9 18.5 27.7

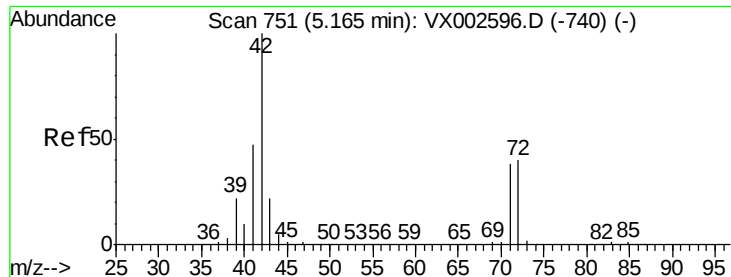


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->

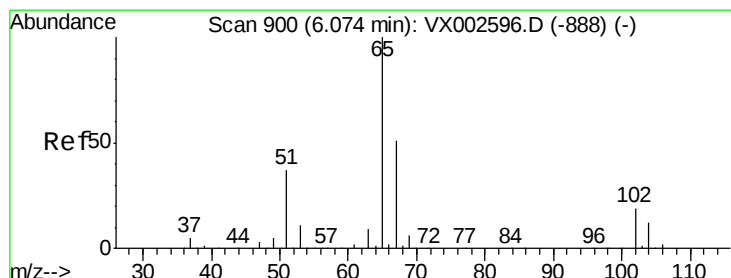
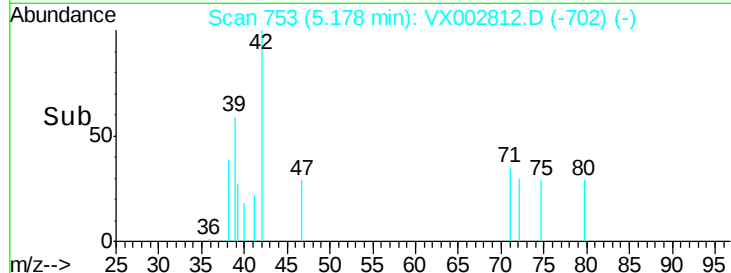
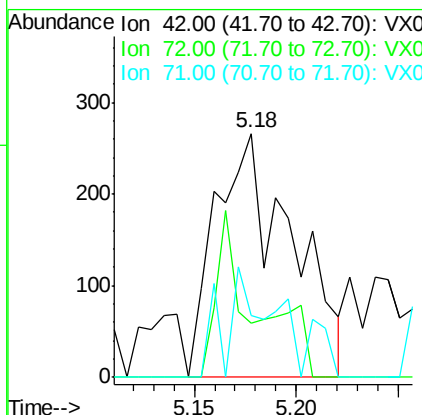
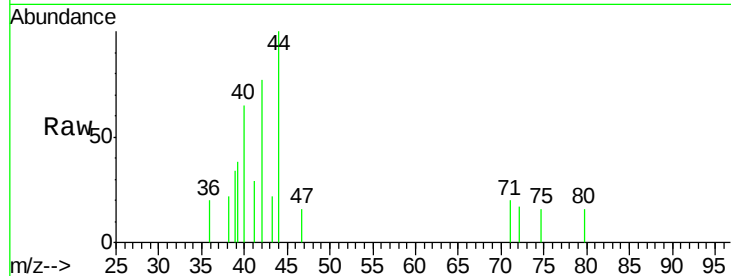




#29
Tetrahydrofuran
Concen: 0.50 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

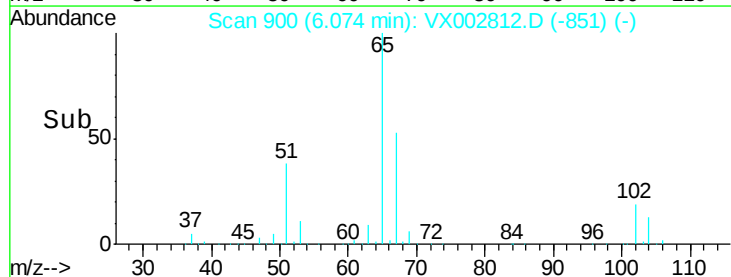
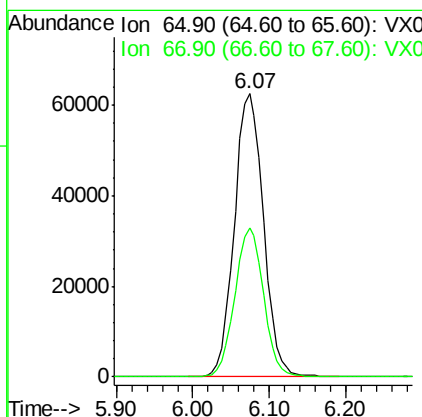
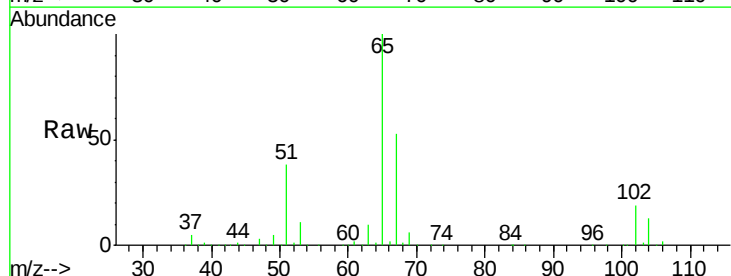
Instrument :
MSVOA_X
ClientSampleId :

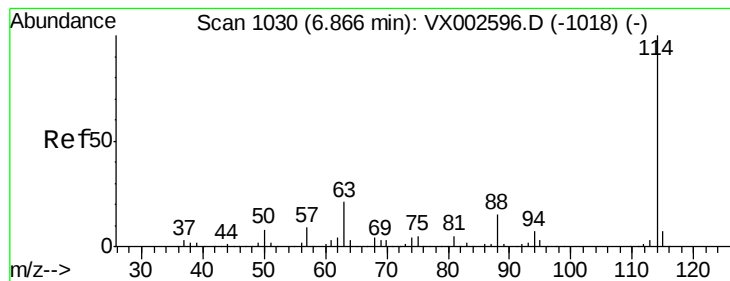
Tot Ion: 42 Resp: 691
Ion Ratio Lower Upper
42 100
72 20.5 32.0 48.0#
71 27.1 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 45.62 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

Tgt Ion: 65 Resp: 165038
Ion Ratio Lower Upper
65 100
67 52.0 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :

MSVOA_X

ClientSampleId :

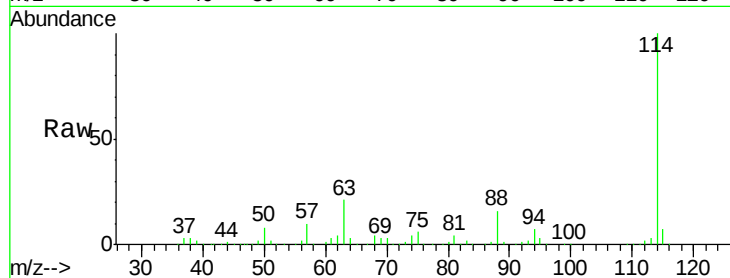
Tot Ion:114 Resp: 335822

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

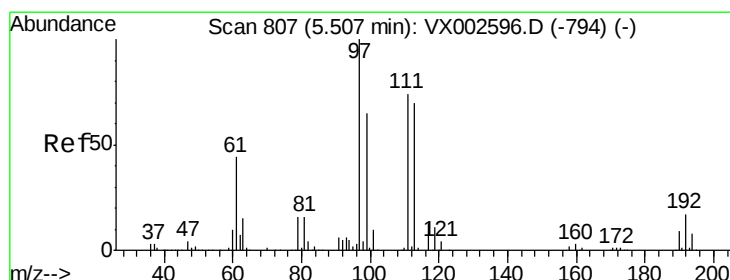
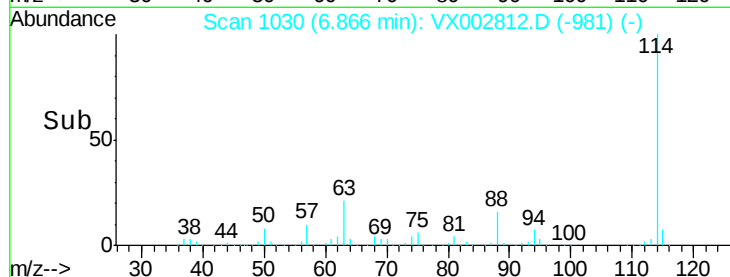
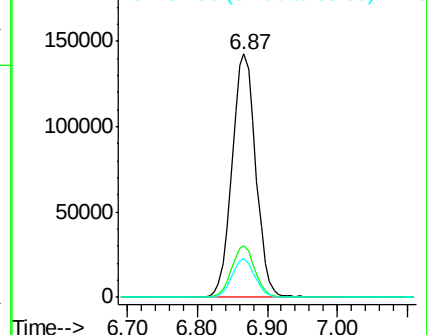
88 15.9 0.0 30.0



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: 48.55 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

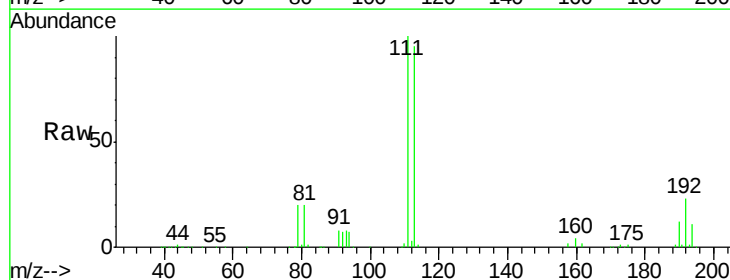
Tgt Ion:113 Resp: 130112

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

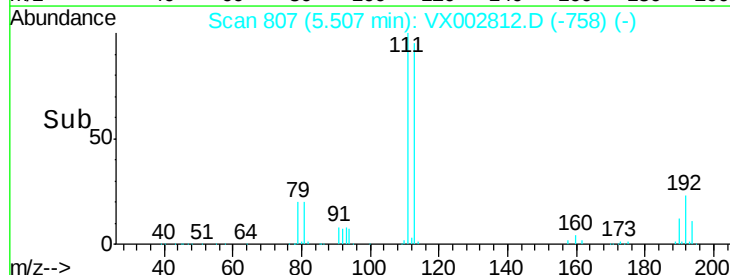
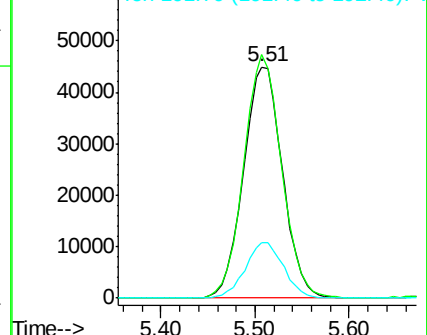
192 23.7 19.1 28.7

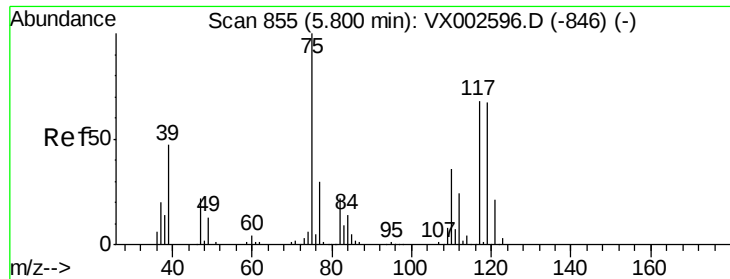


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.54 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :

MSVOA_X

ClientSampleId :

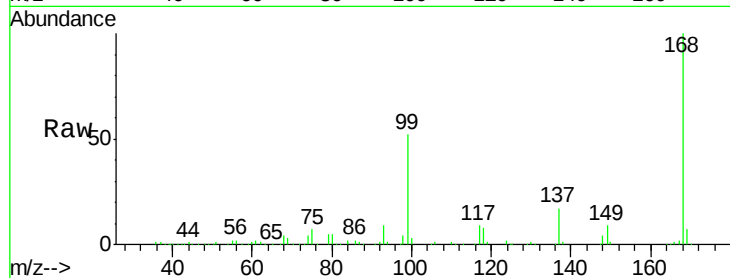
Tot Ion: 75 Resp: 16209

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

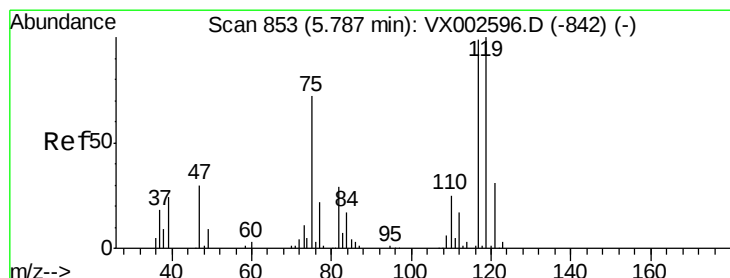
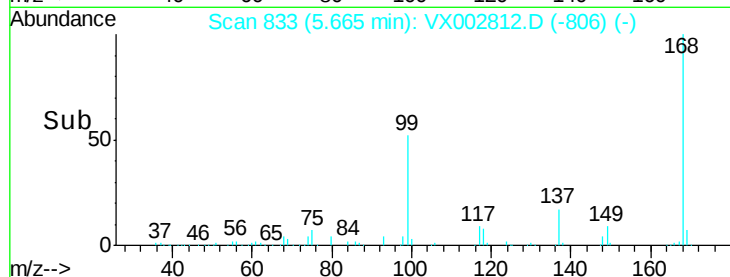
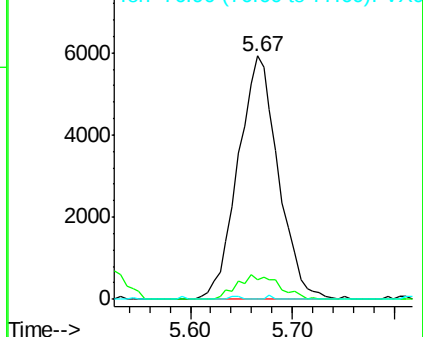
77 0.3 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.18 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

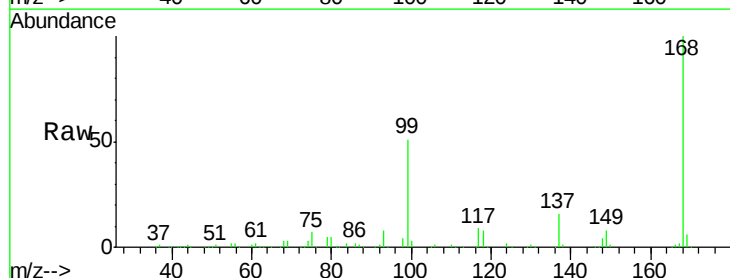
Tgt Ion: 117 Resp: 21965

Ion Ratio Lower Upper

117 100

119 4.1 77.4 116.0#

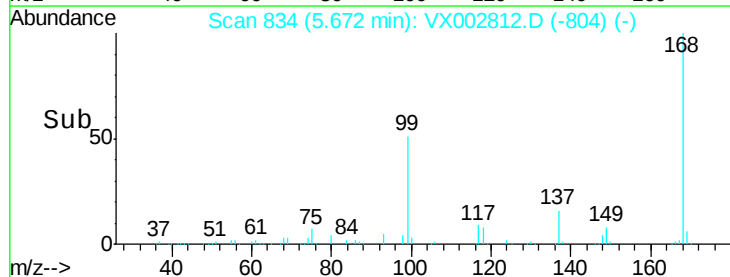
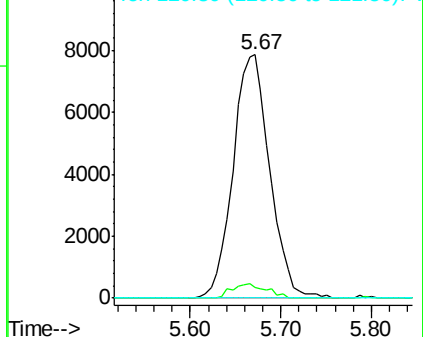
121 0.0 24.4 36.6#

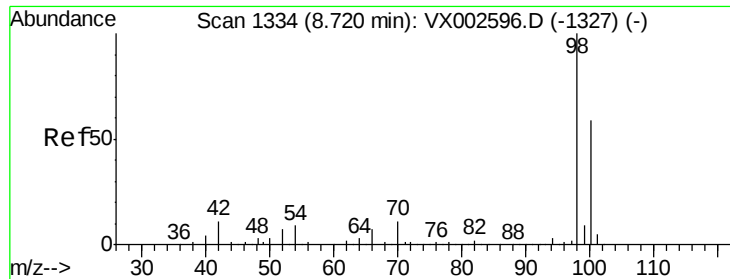


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 47.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :

MSVOA_X

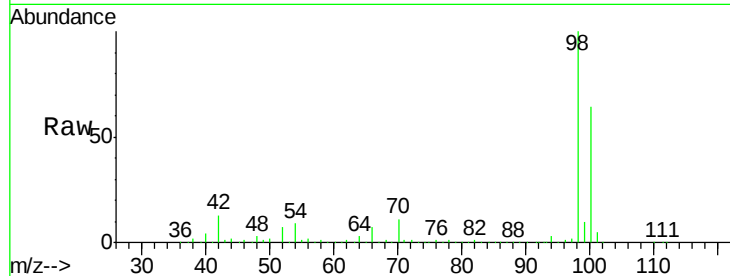
ClientSampled :

Tot Ion: 98 Resp: 483668

Ion Ratio Lower Upper

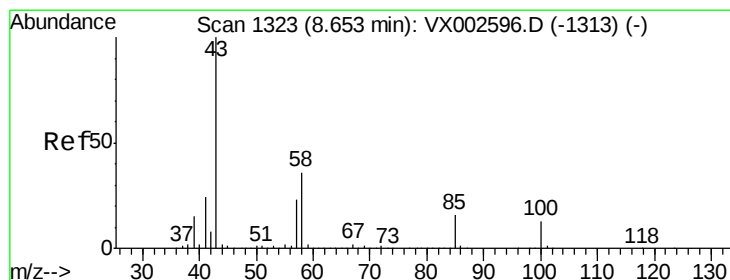
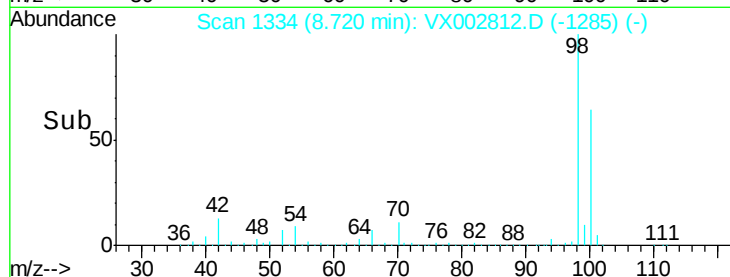
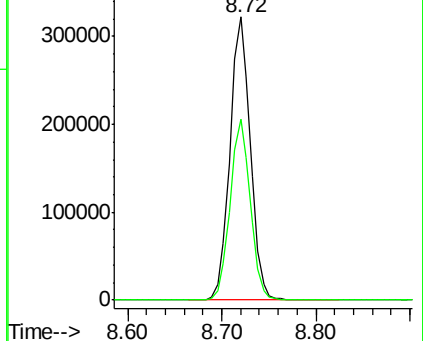
98 100

100 63.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002812.D

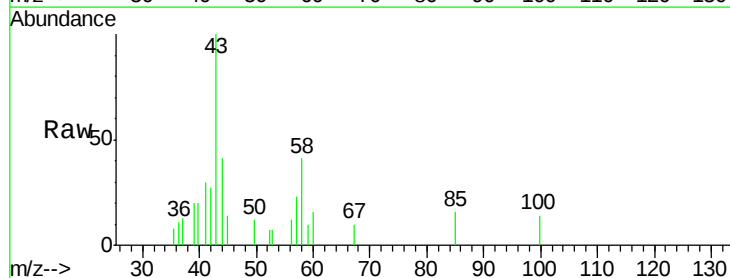
Acq: 22 Jun 2018 02:40

Tgt Ion: 43 Resp: 1300

Ion Ratio Lower Upper

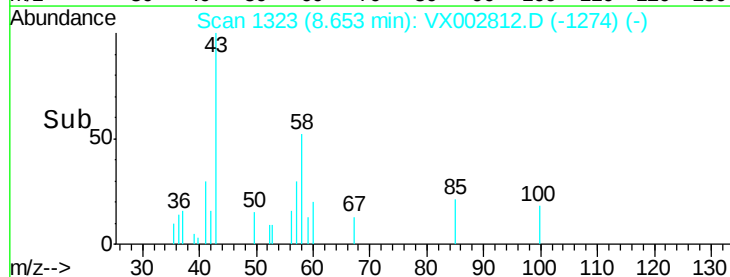
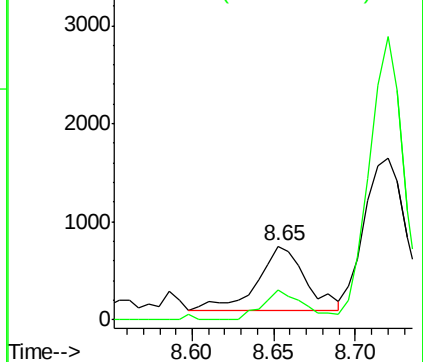
43 100

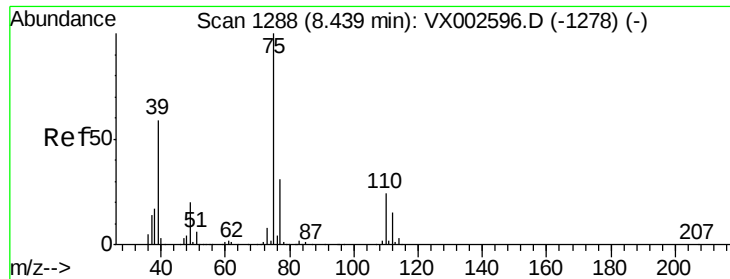
58 41.8 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

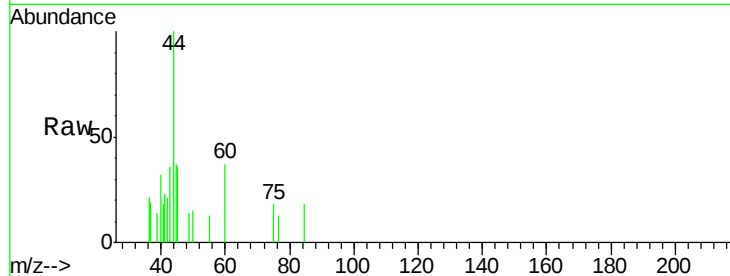
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 46

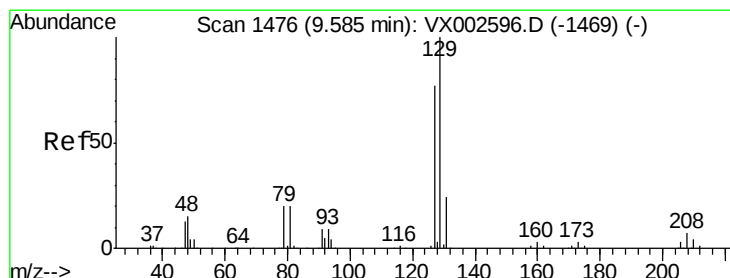
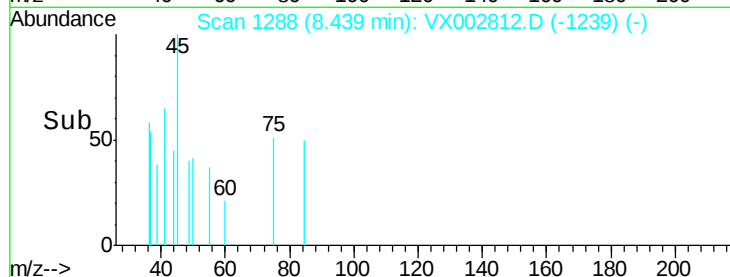
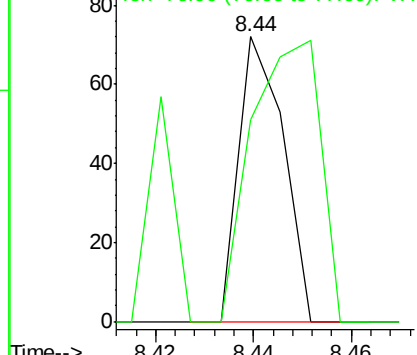
Ion Ratio Lower Upper

75 100

77 70.8 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0



#60

Dibromochloromethane

Concen: 3.80 ug/l

RT: 9.35 min Scan# 1437

Delta R.T. -0.24 min

Lab File: VX002812.D

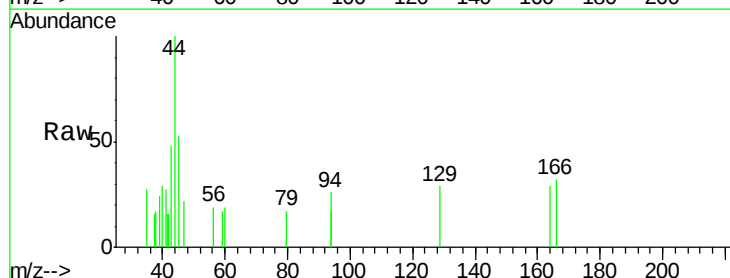
Acq: 22 Jun 2018 02:40

Tgt Ion: 129 Resp: 118

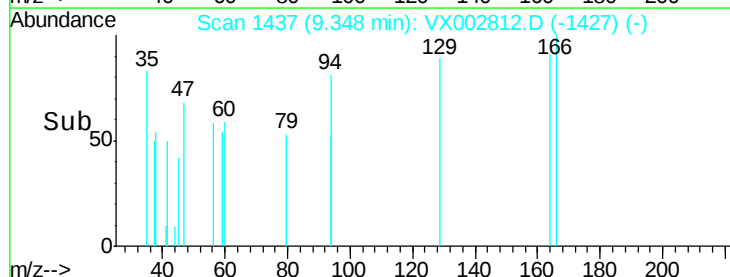
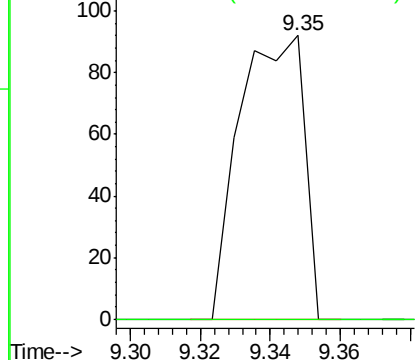
Ion Ratio Lower Upper

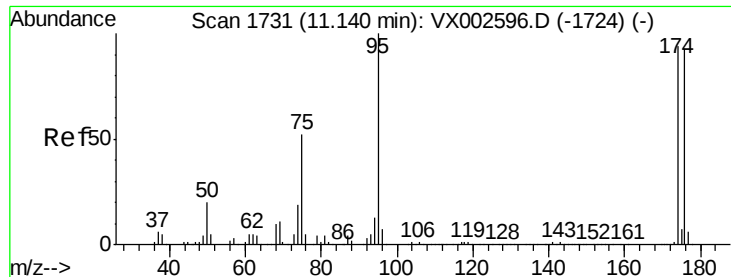
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

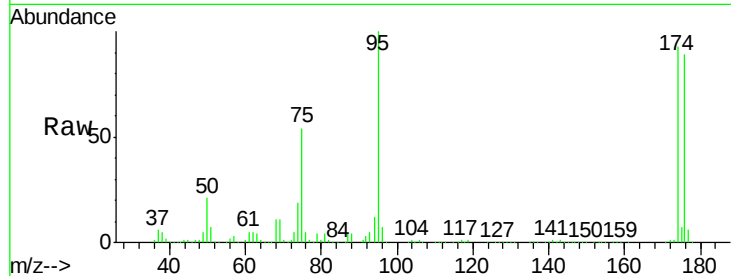




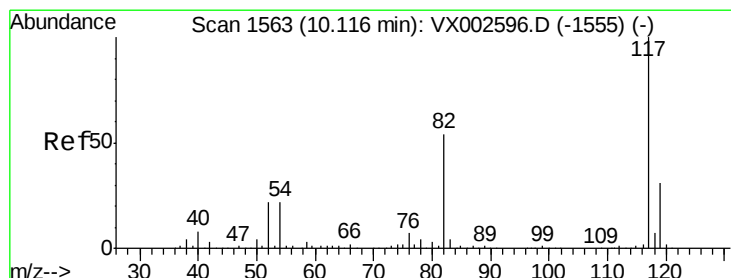
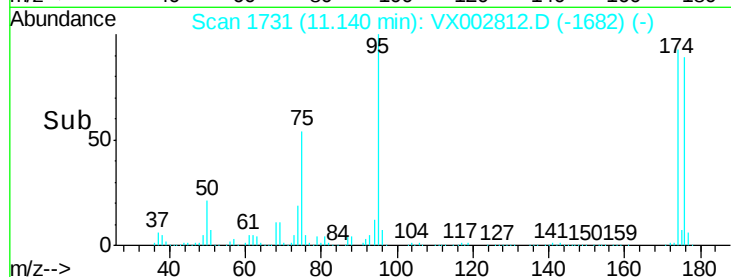
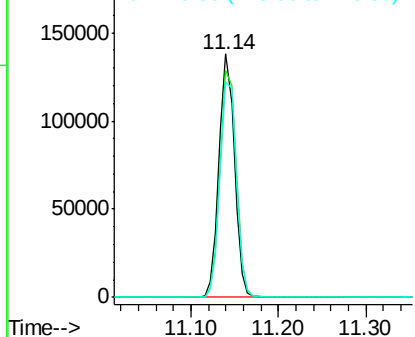
#62
4-Bromofluorobenzene
Concen: 43.56 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 167992
Ion Ratio Lower Upper
95 100
174 98.5 0.0 187.4
176 94.1 0.0 181.0

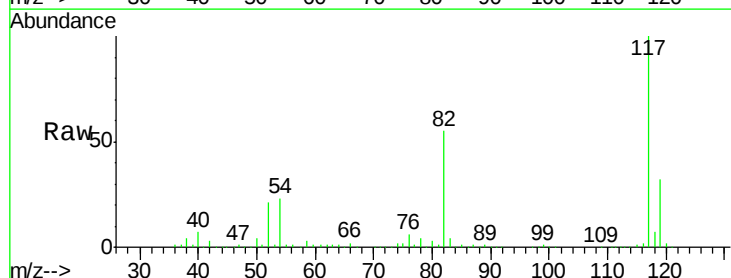


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

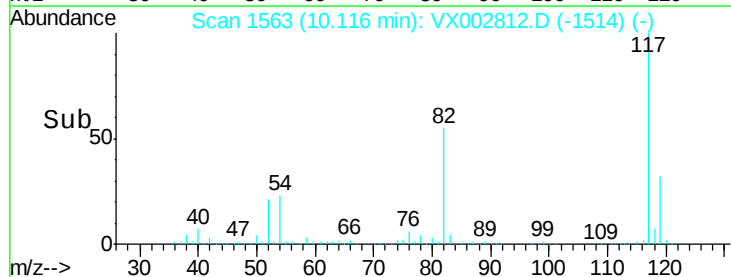
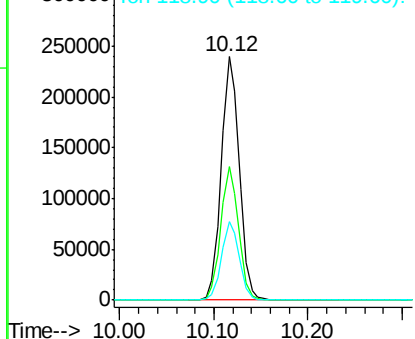


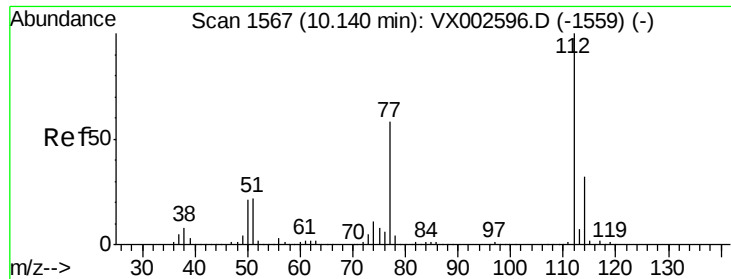
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

Tgt Ion: 117 Resp: 318247
Ion Ratio Lower Upper
117 100
82 55.0 45.0 67.4
119 32.0 25.8 38.6



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





#65

Chlorobenzene

Concen: 0.40 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :

MSVOA_X

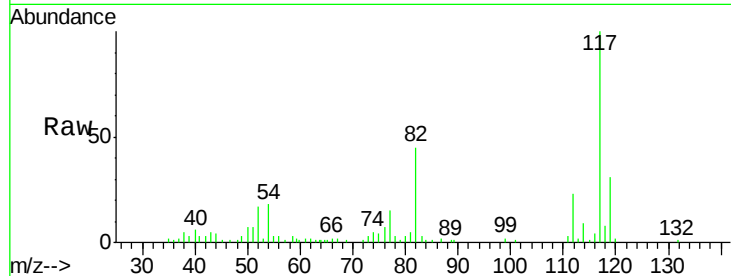
ClientSampleId :

Tot Ion:112 Resp: 3146

Ion Ratio Lower Upper

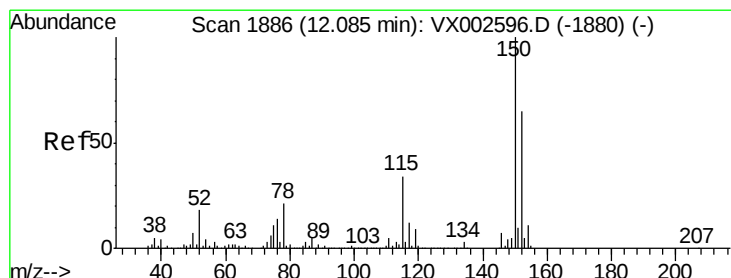
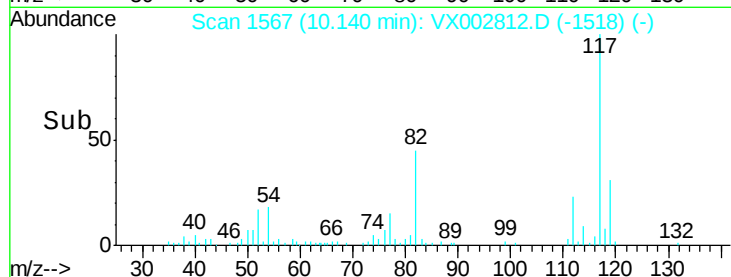
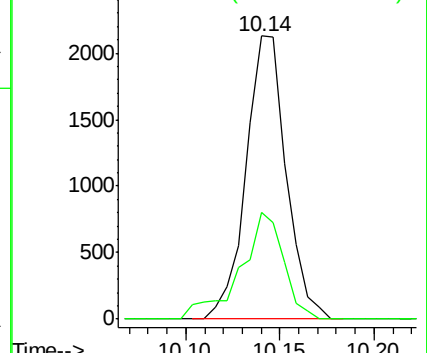
112 100

114 37.8 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

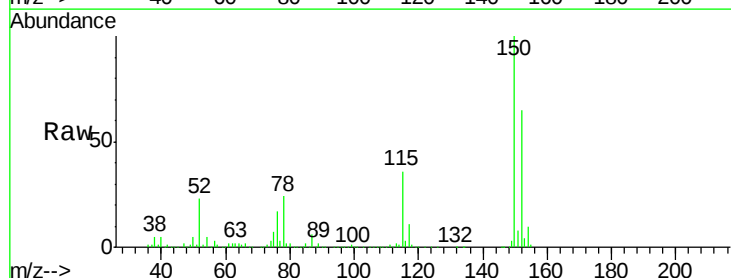
Tgt Ion:152 Resp: 180457

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

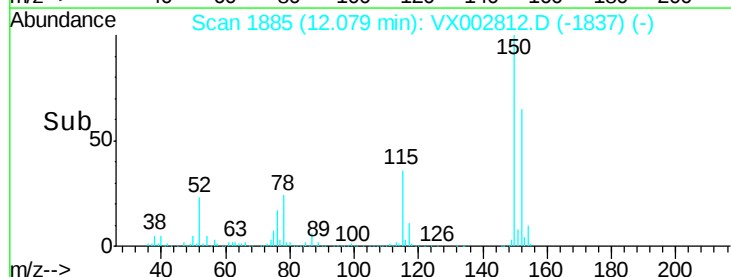
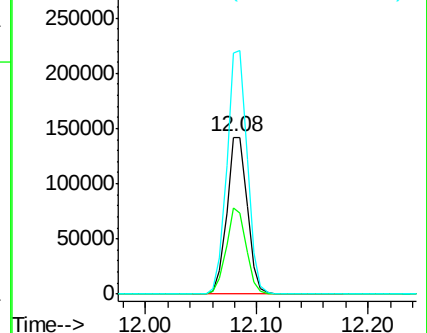
150 154.9 0.0 347.2

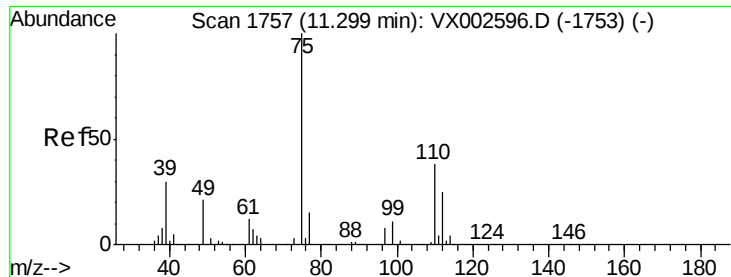


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :

MSVOA_X

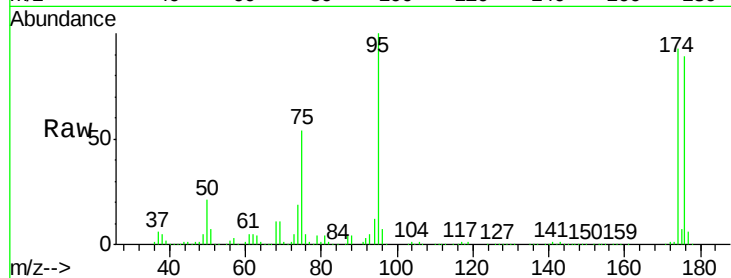
ClientSampled :

Tot Ion: 75 Resp: 90846

Ion Ratio Lower Upper

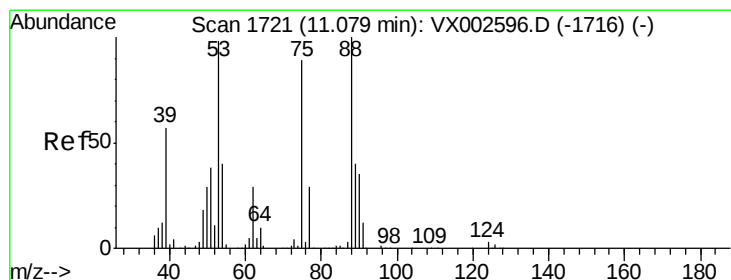
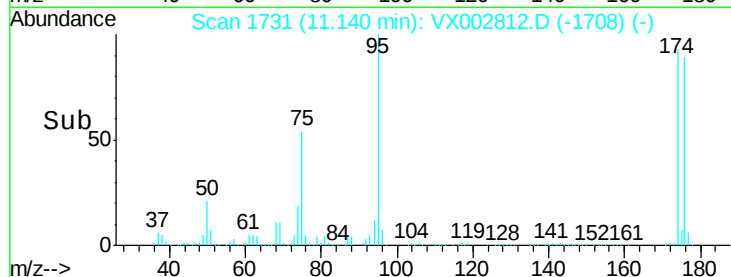
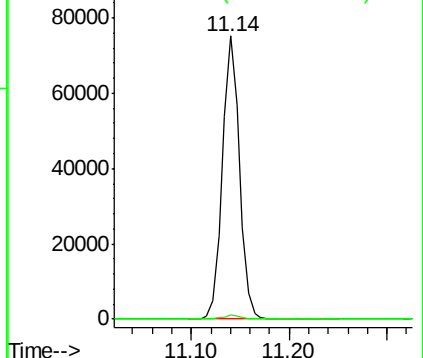
75 100

77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 82.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

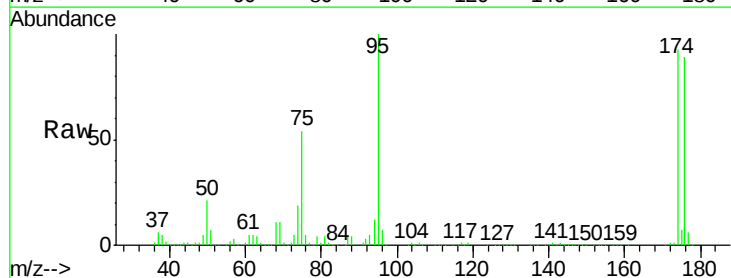
Tgt Ion: 75 Resp: 90846

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

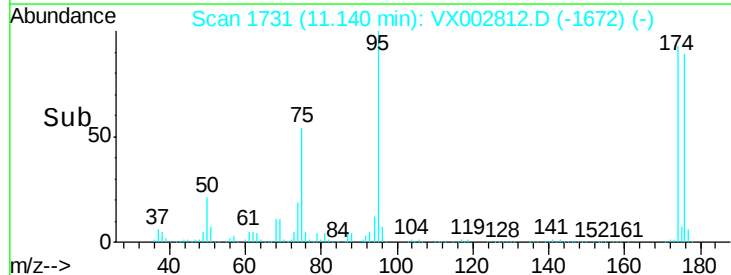
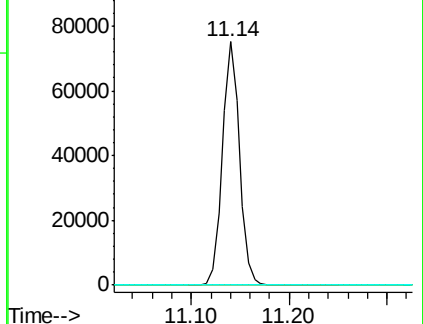
89 0.0 38.2 57.2#

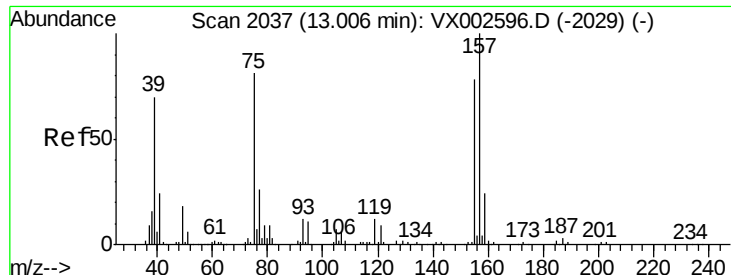


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.46 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002812.D

Acq: 22 Jun 2018 02:40

Instrument :

MSVOA_X

ClientSampleId :

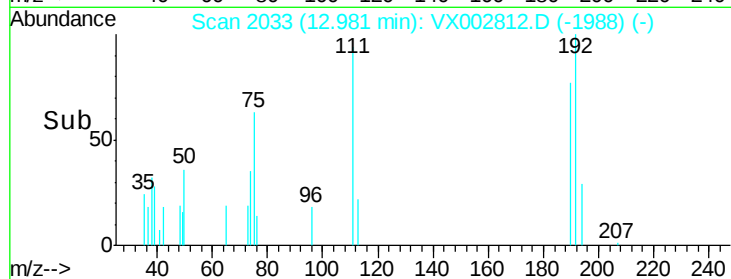
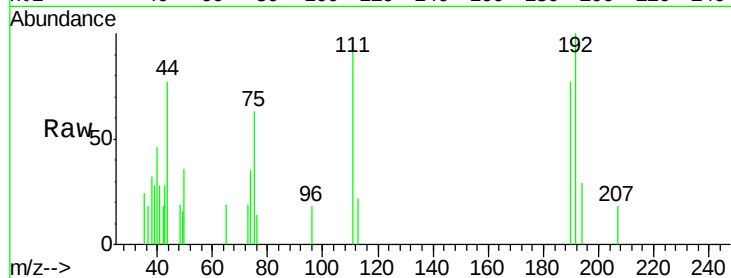
Tot Ion: 75 Resp: 343

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

