

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 :
 PB110441ZHE#15

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

33) 1,2-Dichloroethane-d4	6.07	65	165038	45.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.24%	
35) Dibromofluoromethane	5.51	113	130112	48.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.10%	
50) Toluene-d8	8.72	98	483668	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
62) 4-Bromofluorobenzene	11.14	95	167992	43.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.12%	

Target Compounds

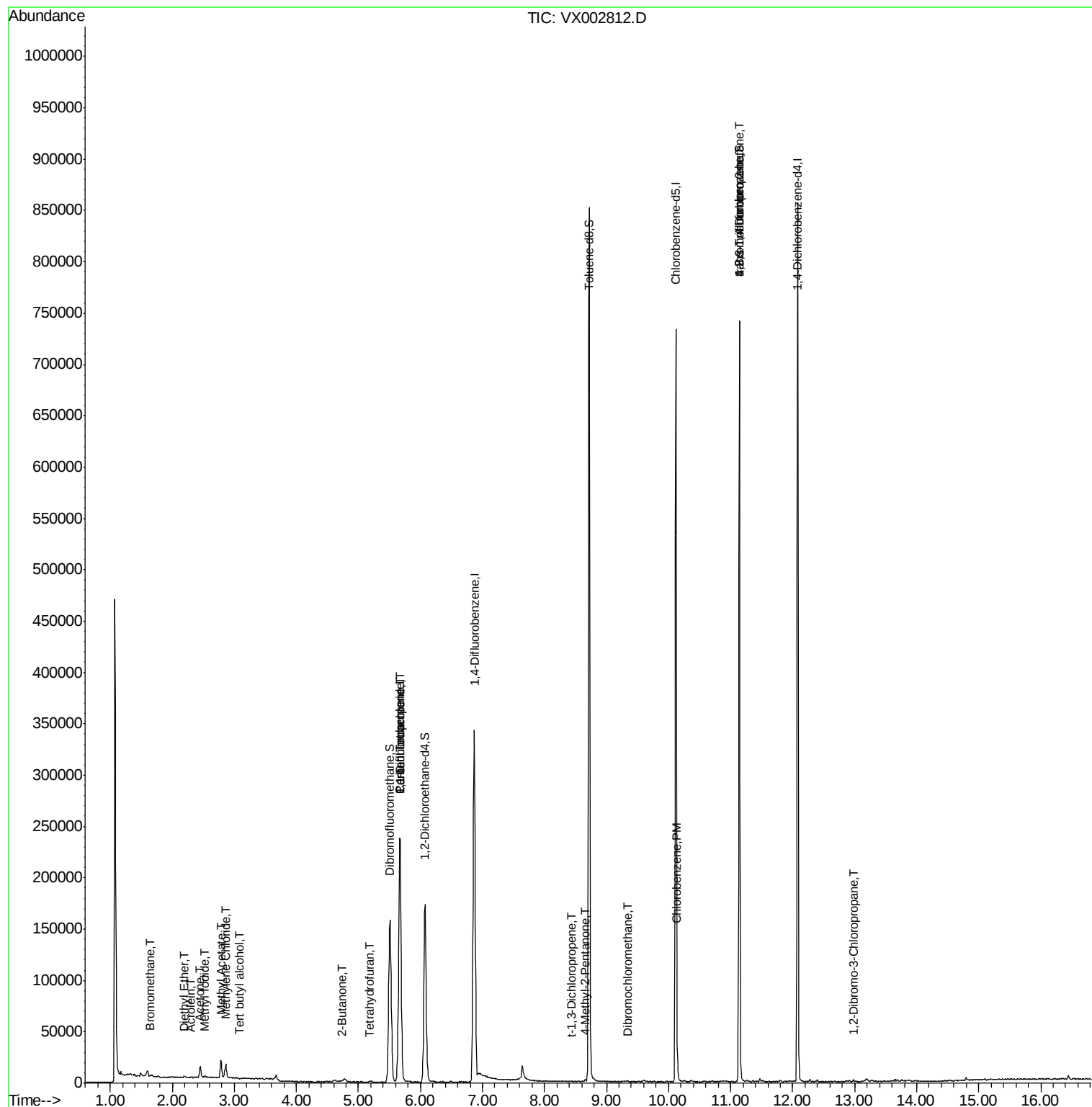
						Qvalue
5) Bromomethane	1.65	94	495	0.26	ug/l	96
8) Diethyl Ether	2.18	74	569	0.30	ug/l	89
10) Methyl Iodide	2.52	142	1431	5.52	ug/l	98
11) Tert butyl alcohol	3.07	59	364	0.49	ug/l #	37
13) Acrolein	2.29	56	391	7.95	ug/l #	75
16) Acetone	2.45	43	13317	8.34	ug/l	97
18) Methyl Acetate	2.78	43	21765	5.12	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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#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

ClientSampleId :

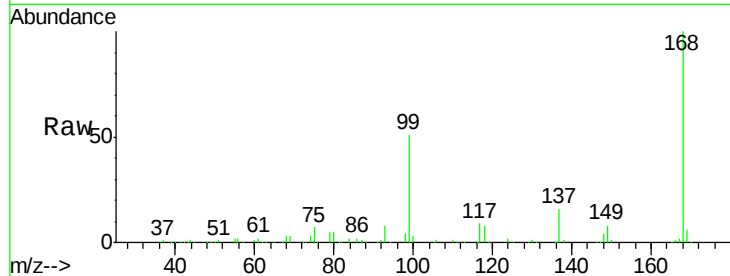
PB110441ZHE#15

Tot Ion:168 Resp: 238061

Ion Ratio Lower Upper

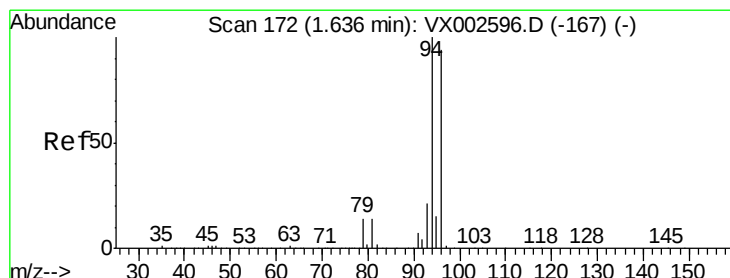
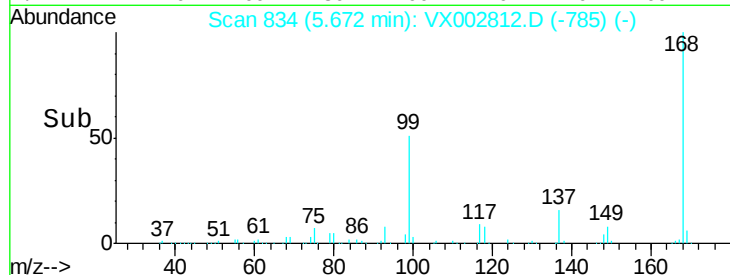
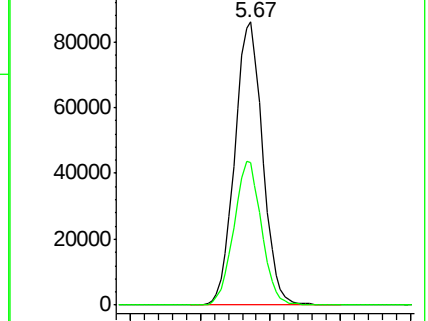
168 100

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

Bromomethane

Concen: 0.26 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002812.D

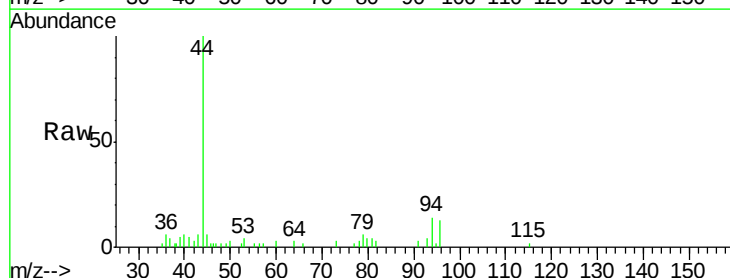
Acq: 22 Jun 2018 02:40

Tgt Ion: 94 Resp: 495

Ion Ratio Lower Upper

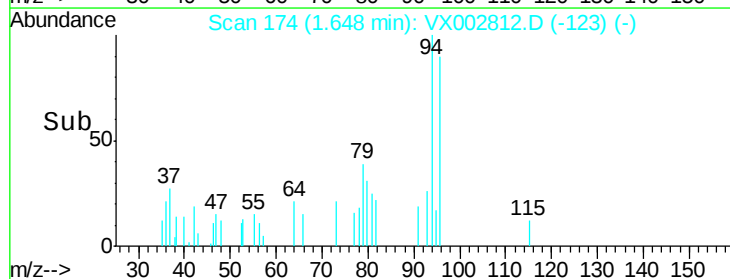
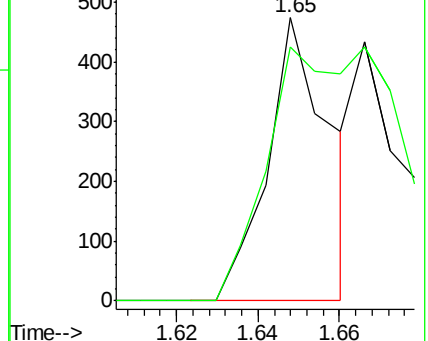
94 100

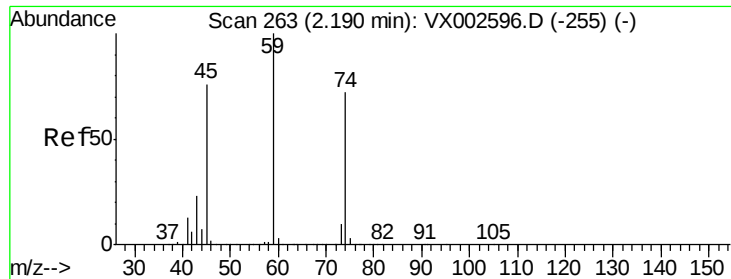
96 89.9 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#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 :

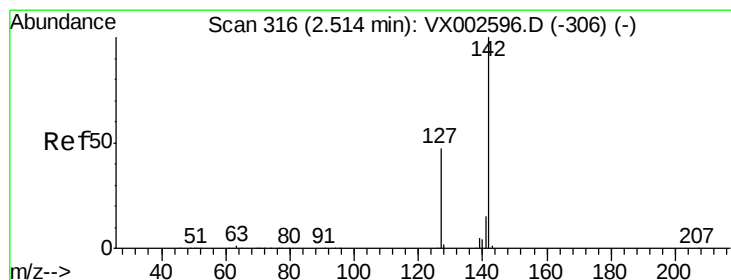
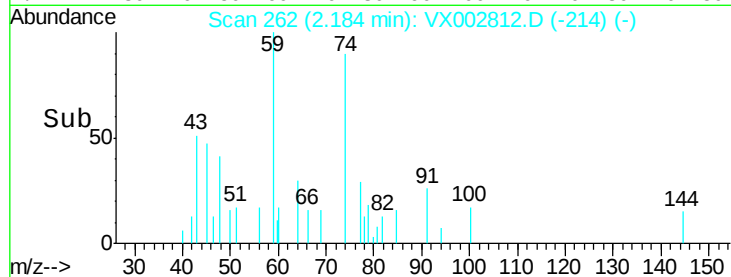
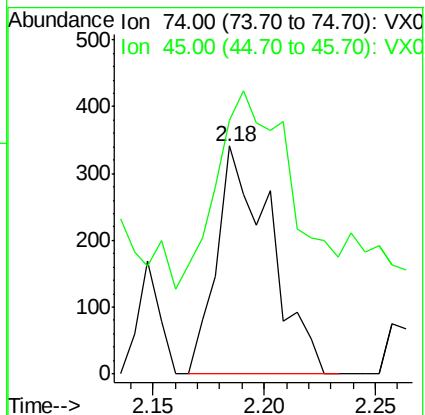
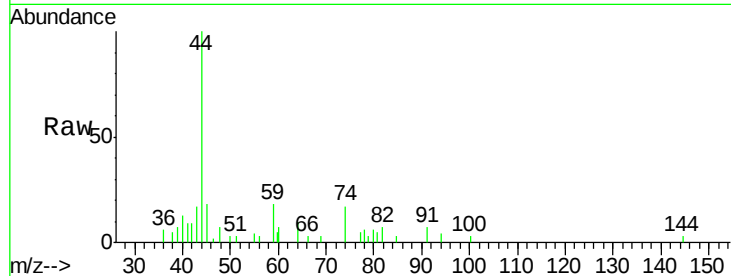
PB110441ZHE#15

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

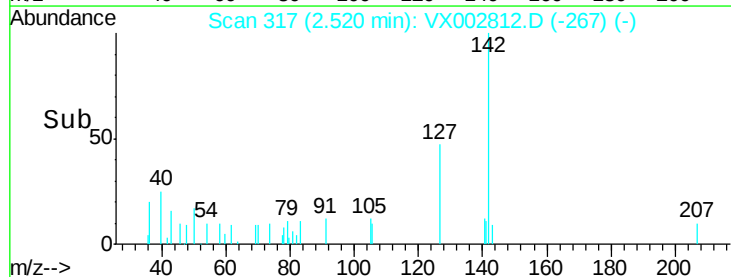
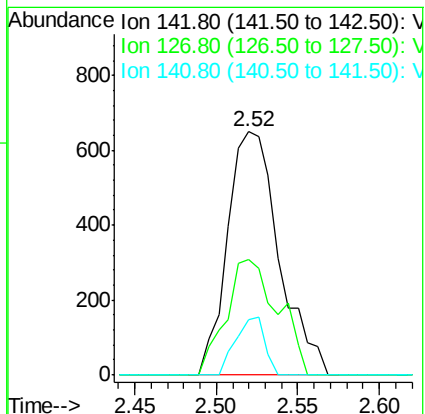
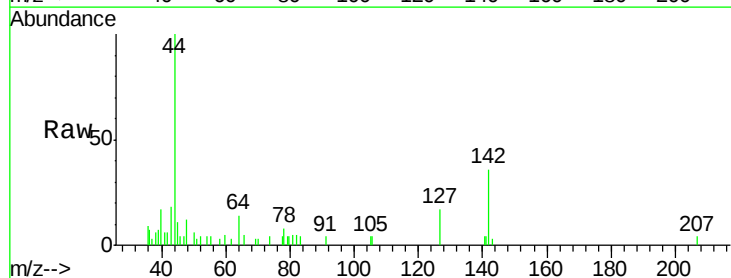
Tgt Ion: 142 Resp: 1431

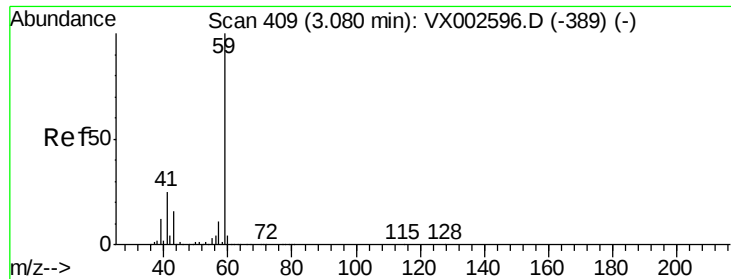
Ion Ratio Lower Upper

142 100

127 47.5 36.6 55.0

141 13.4 11.3 16.9



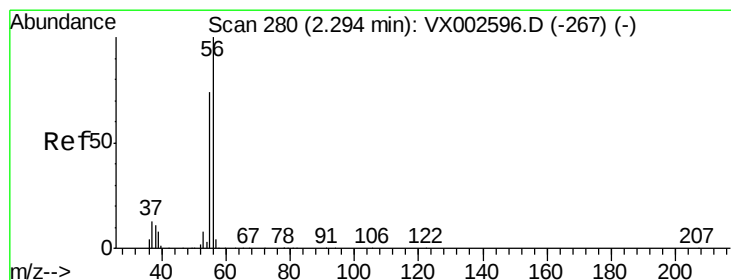
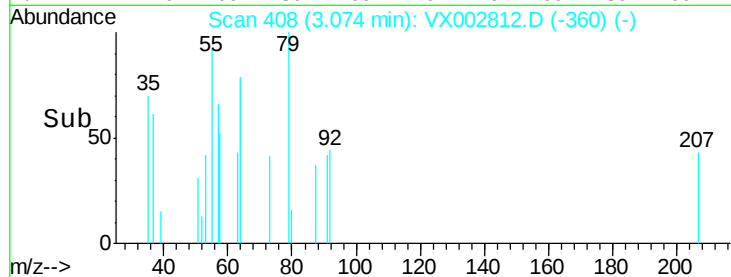
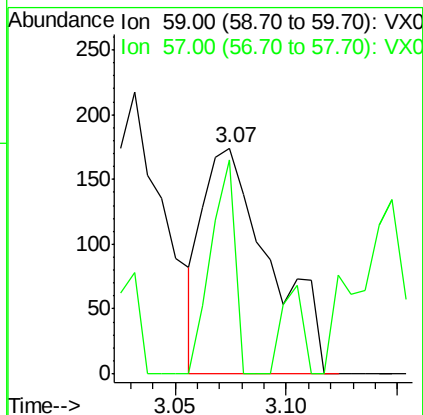
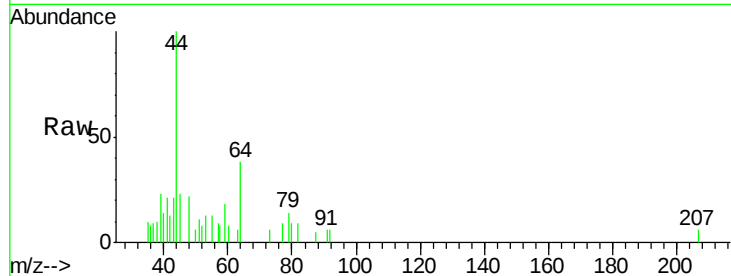


#11

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
 ClientSampleId :
 PB110441ZHE#15

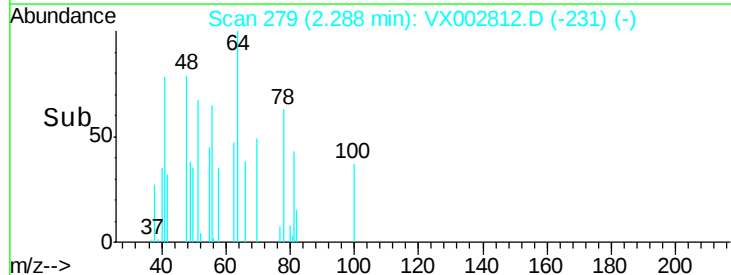
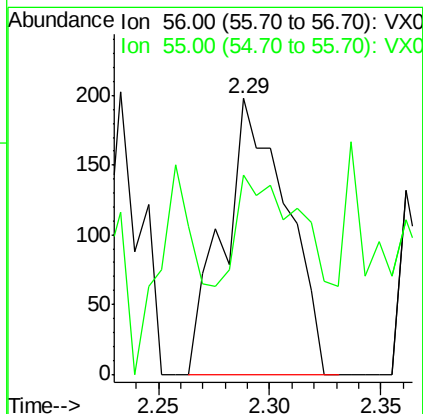
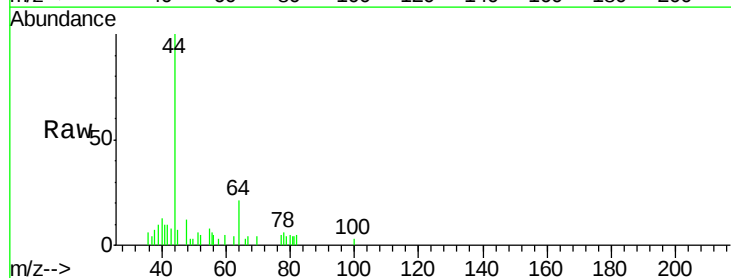
Tot Ion: 59 Resp: 364
 Ion Ratio Lower Upper
 59 100
 57 33.8 8.2 12.2#

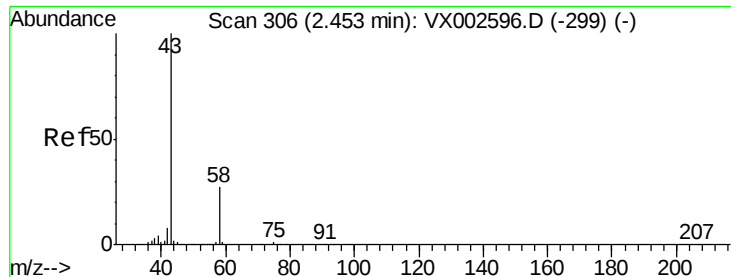


#13

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 :

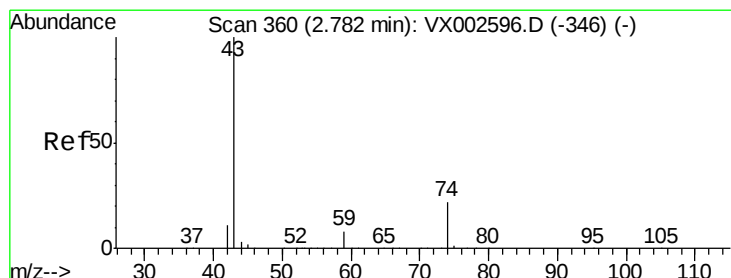
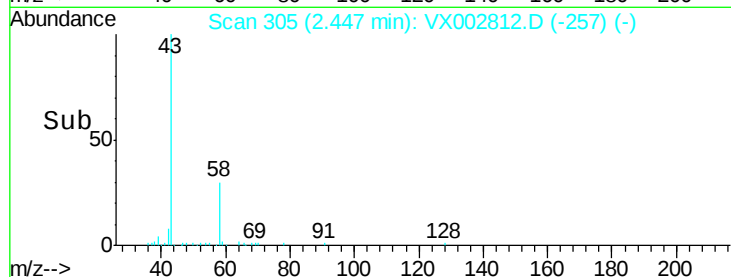
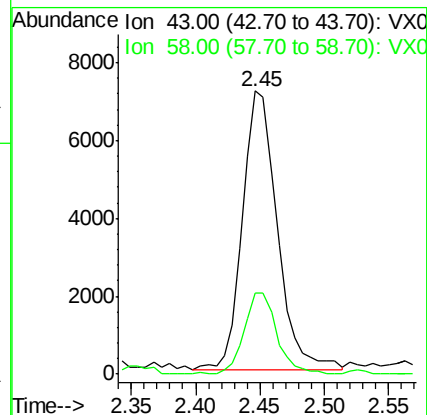
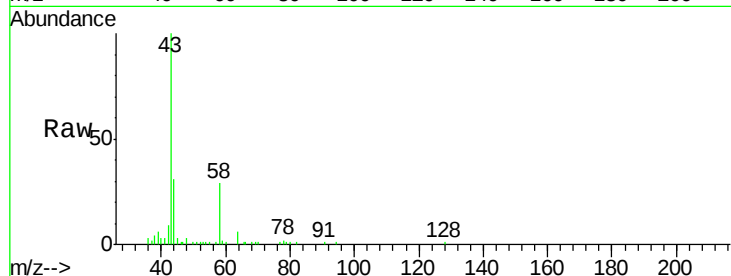
PB110441ZHE#15

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

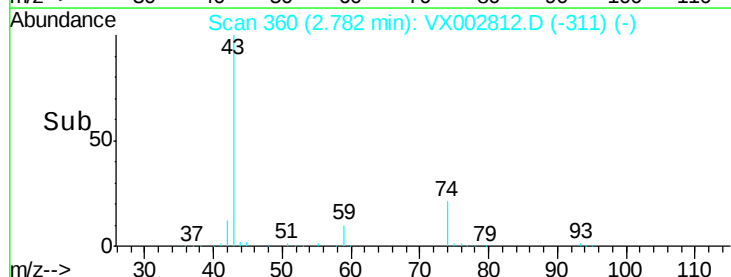
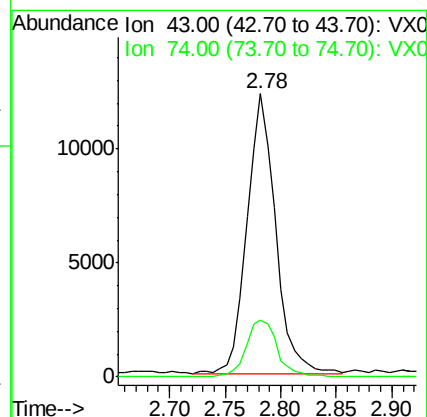
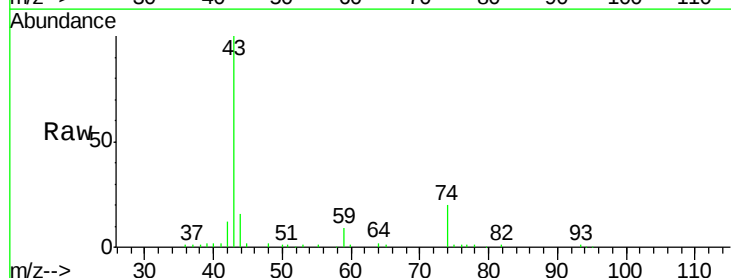
Acq: 22 Jun 2018 02:40

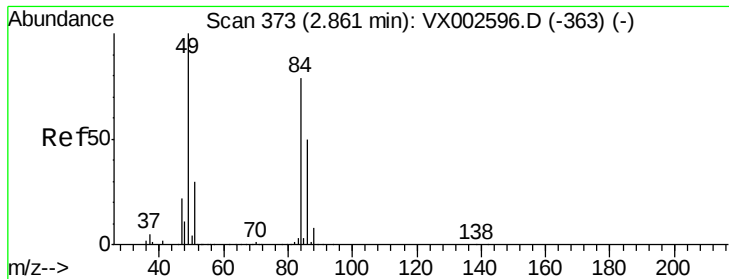
Tgt Ion: 43 Resp: 21765

Ion Ratio Lower Upper

43 100

74 22.4 16.7 25.1

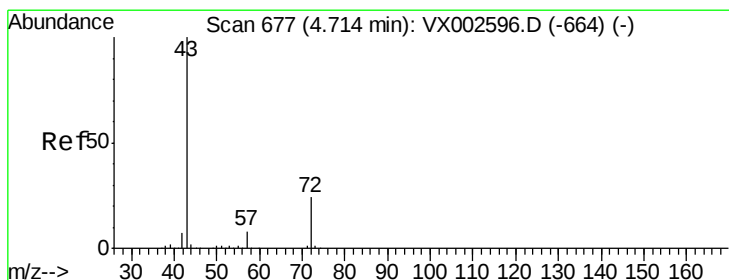
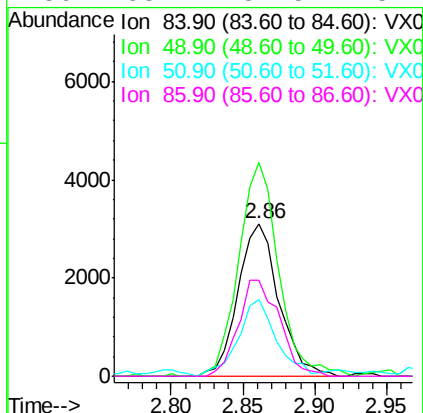
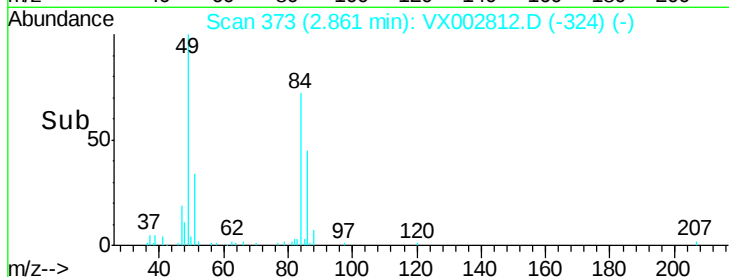
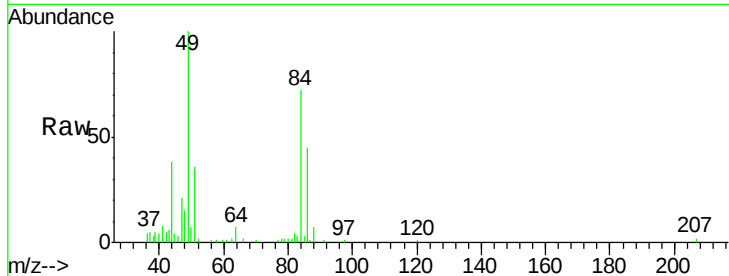




#20
Methylene Chloride
Concen: 1.87 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

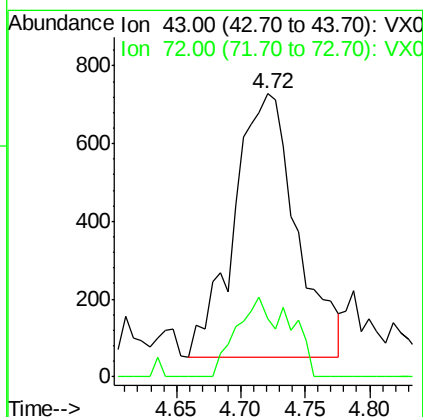
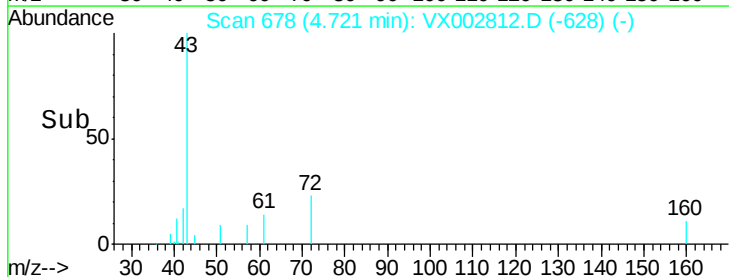
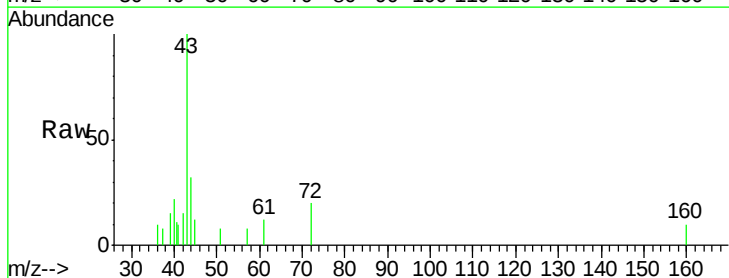
Instrument :
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PB110441ZHE#15

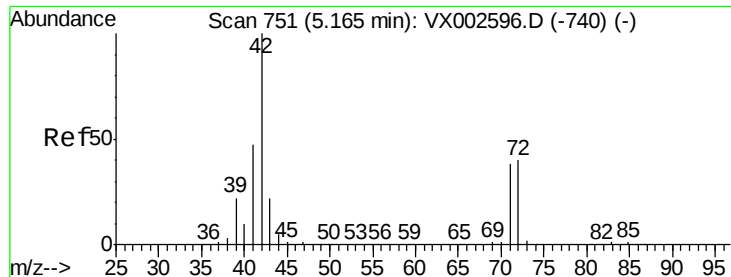
Tot Ion: 84 Resp: 6119
Ion Ratio Lower Upper
84 100
49 139.8 107.8 161.6
51 48.8 32.8 49.2
86 63.1 52.5 78.7



#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

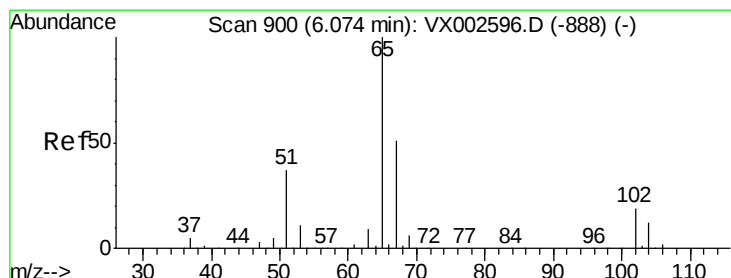
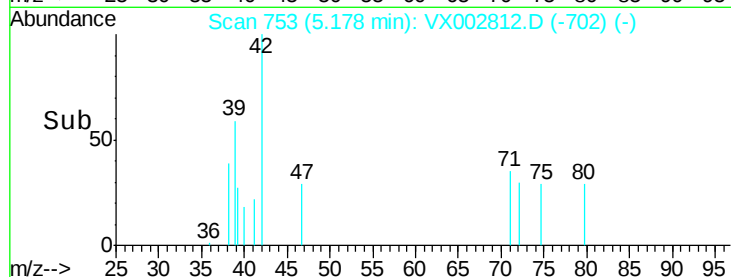
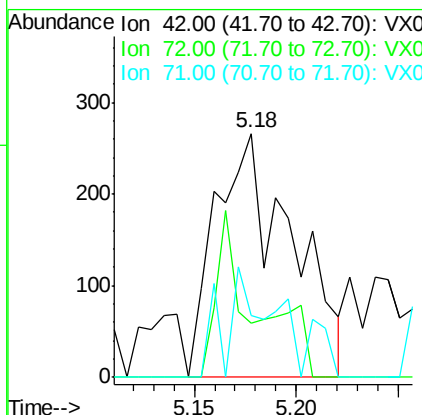
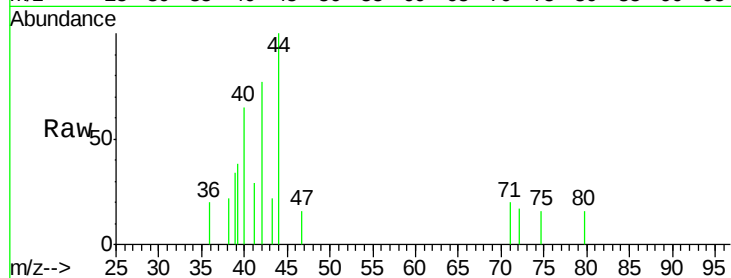




#29
Tetrahydrofuran
Concen: 0.50 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

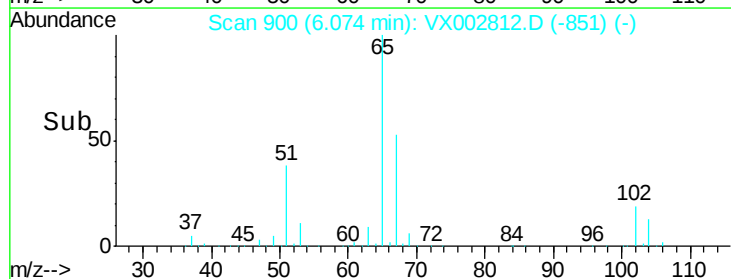
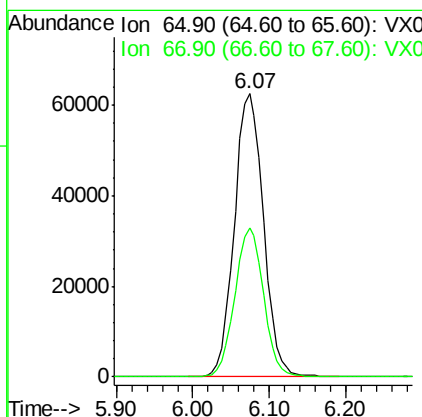
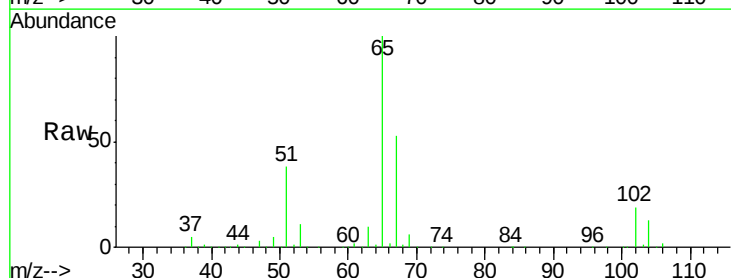
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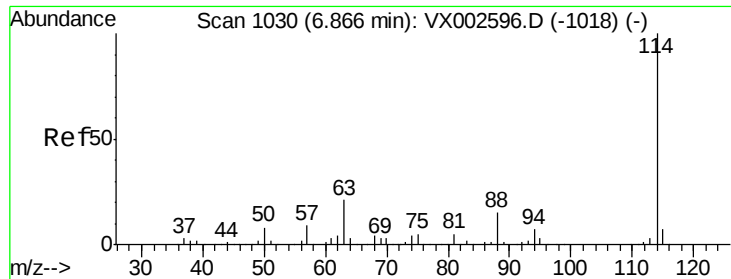
Tot Ion: 42 Resp: 691
Ion Ratio Lower Upper
42 100
72 20.5 32.0 48.0#
71 27.1 30.1 45.1#



#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

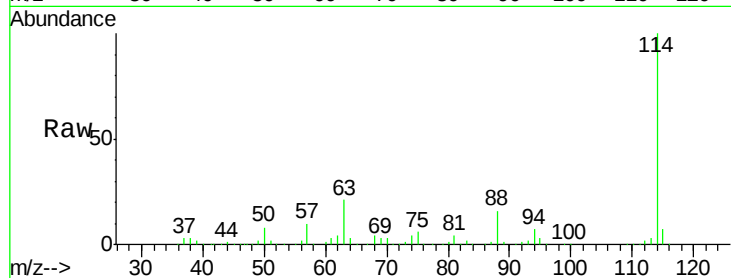




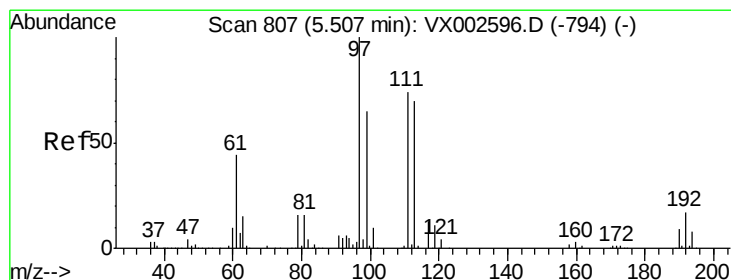
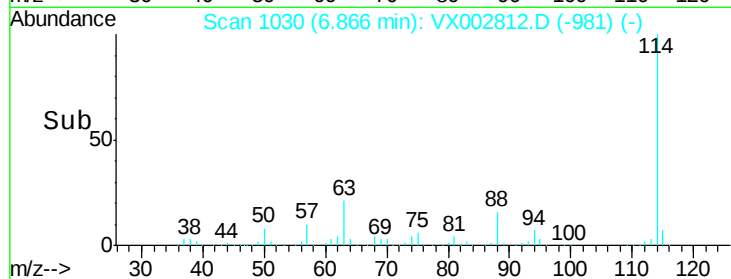
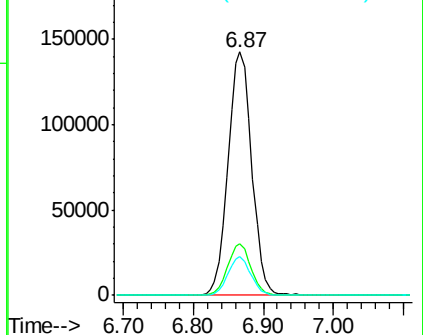
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002812.D
 Acq: 22 Jun 2018 02:40

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#15

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

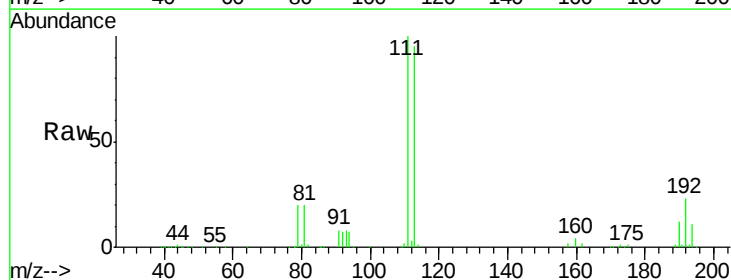


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

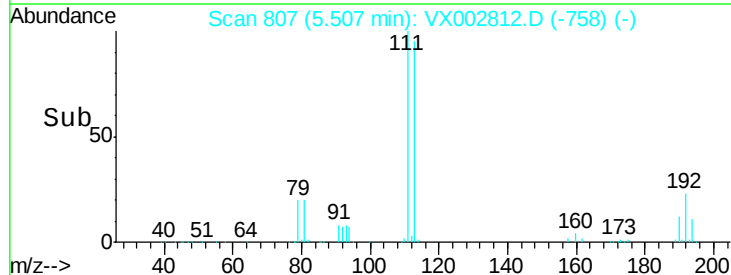
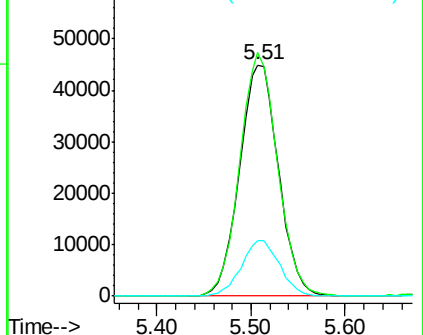


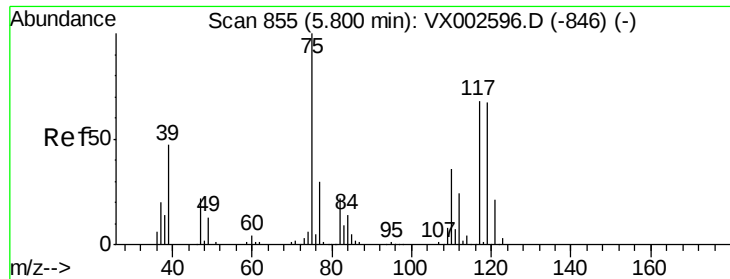
#35
 Dibromofluoromethane
 Concen: 48.55 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002812.D
 Acq: 22 Jun 2018 02:40

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

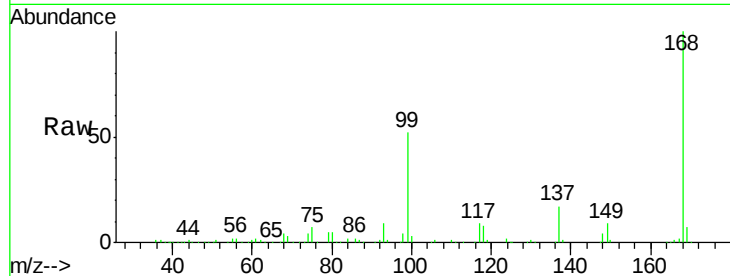




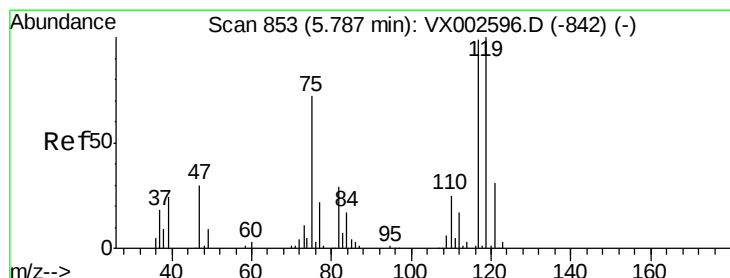
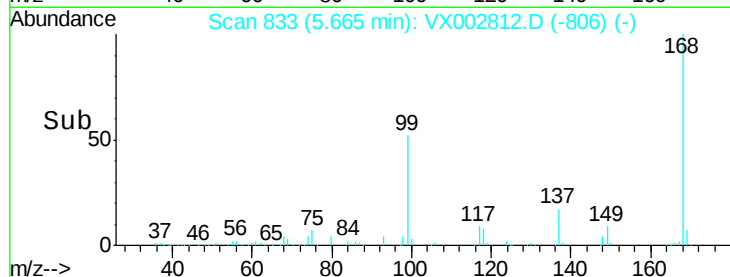
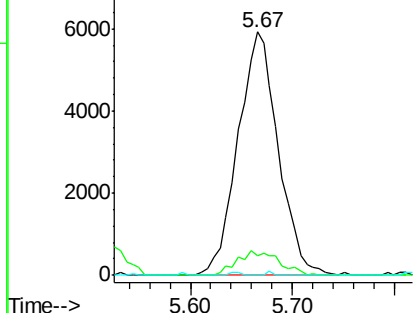
#36
 1,1-Dichloropropene
 Concen: 4.54 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002812.D
 Acq: 22 Jun 2018 02:40

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#15

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#

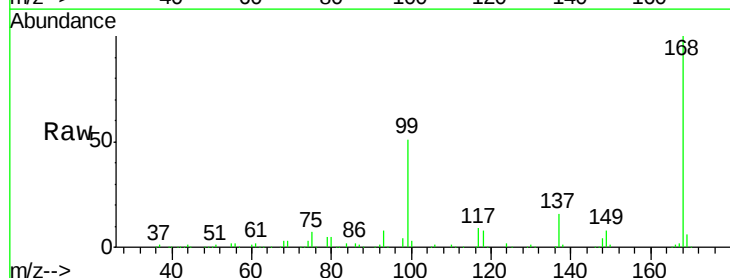


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

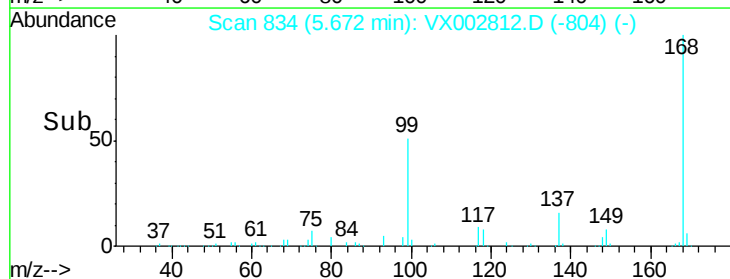
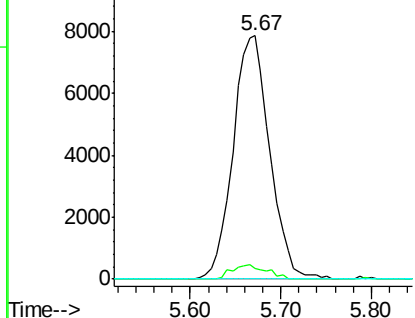


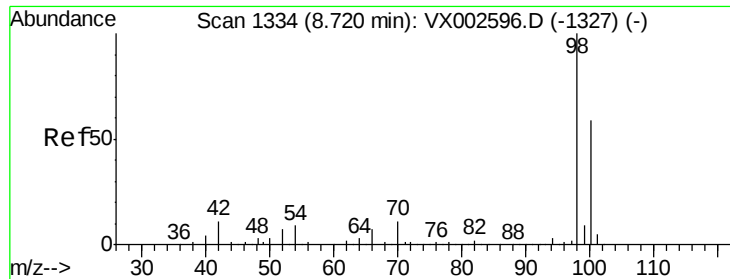
#38
 Carbon Tetrachloride
 Concen: 6.18 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002812.D
 Acq: 22 Jun 2018 02:40

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

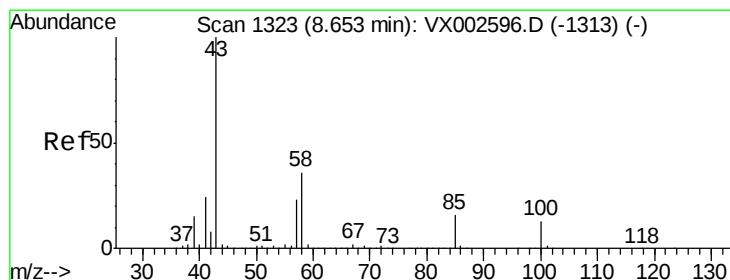
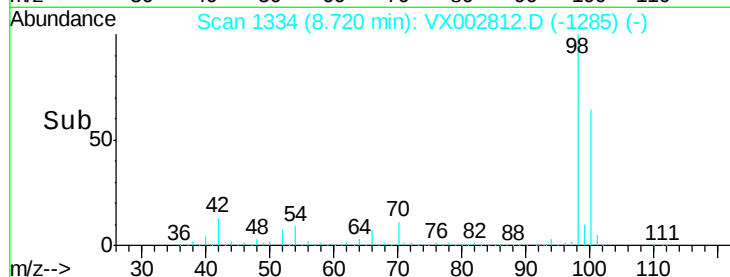
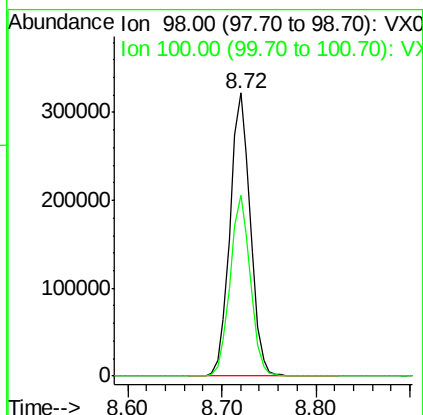
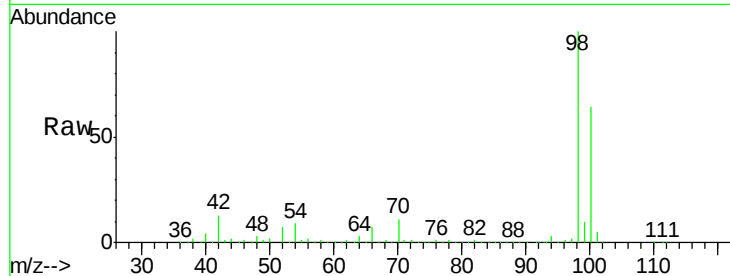




#50
Toluene-d8
Concen: 47.53 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

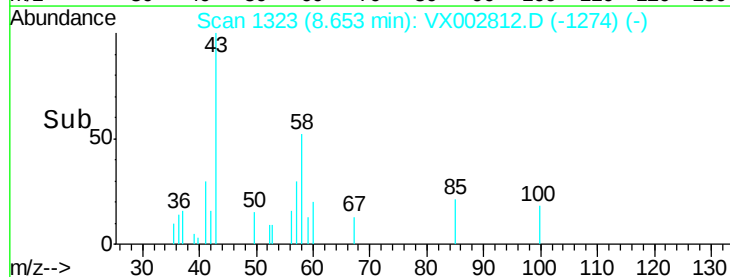
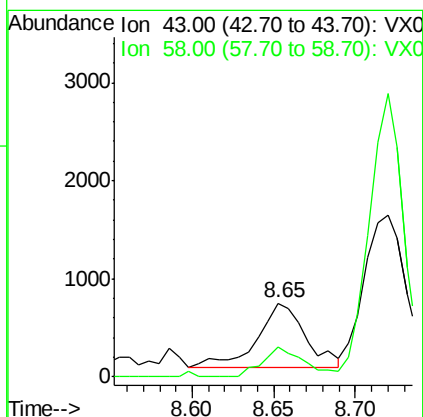
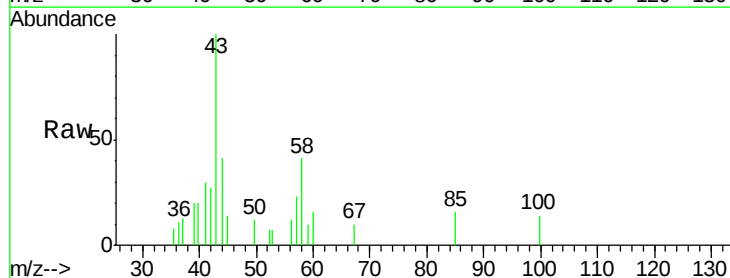
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#15

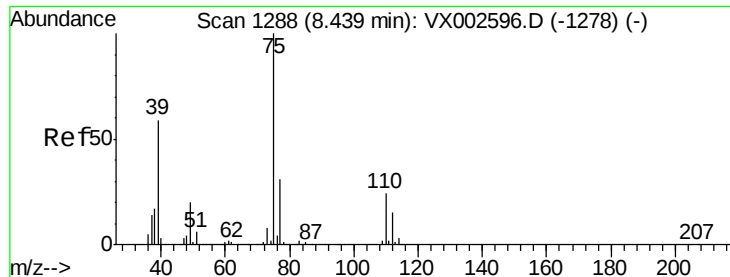
Tot Ion: 98 Resp: 483668
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#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





#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

ClientSampleId :

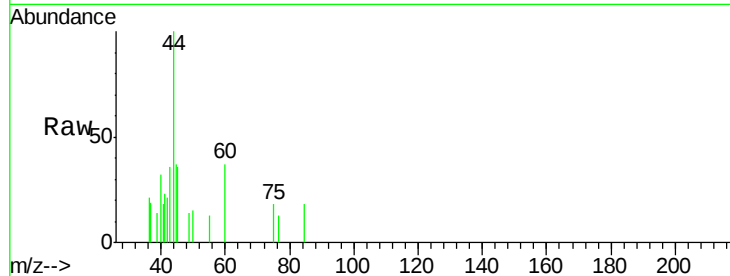
PB110441ZHE#15

Tot Ion: 75 Resp: 46

Ion Ratio Lower Upper

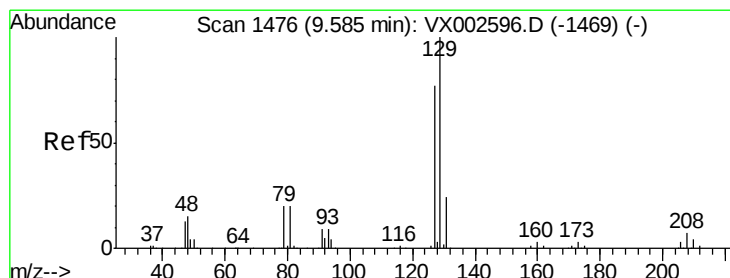
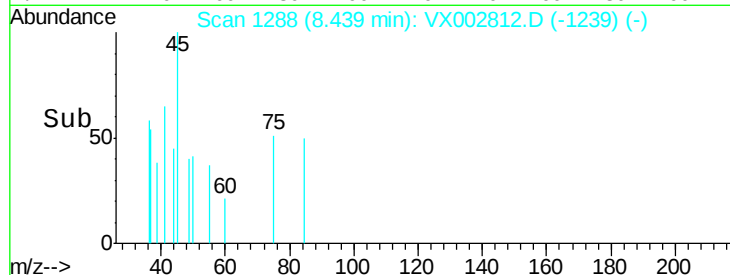
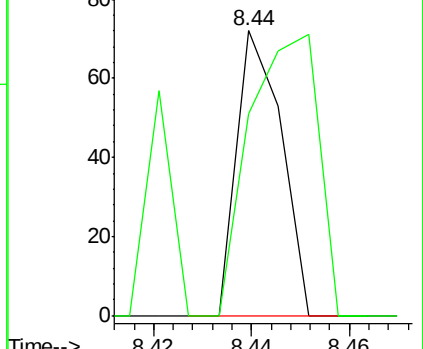
75 100

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

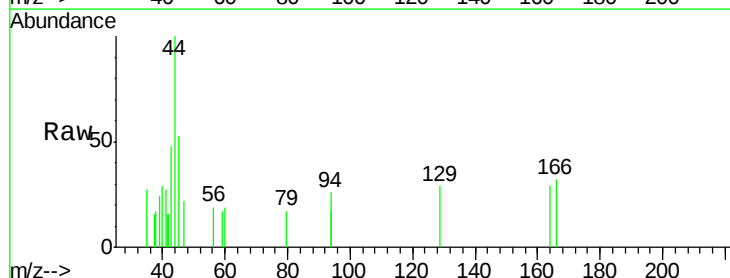
Acq: 22 Jun 2018 02:40

Tgt Ion:129 Resp: 118

Ion Ratio Lower Upper

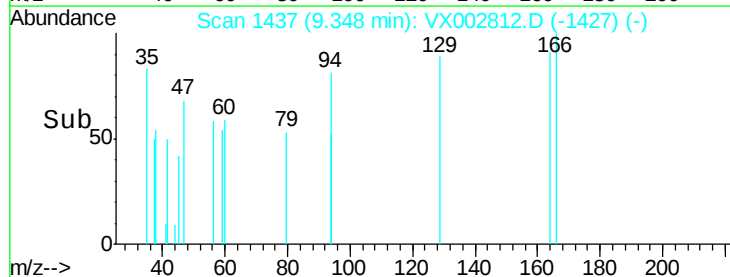
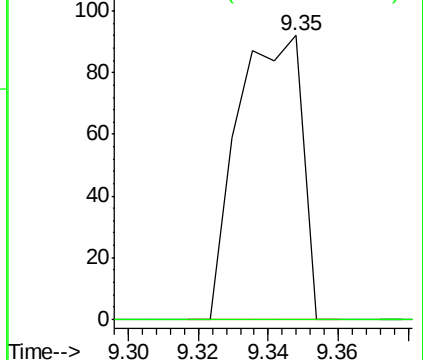
129 100

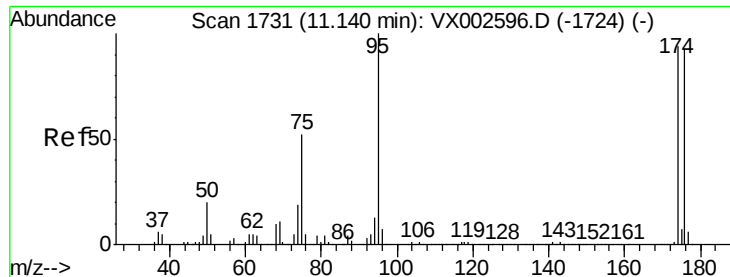
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

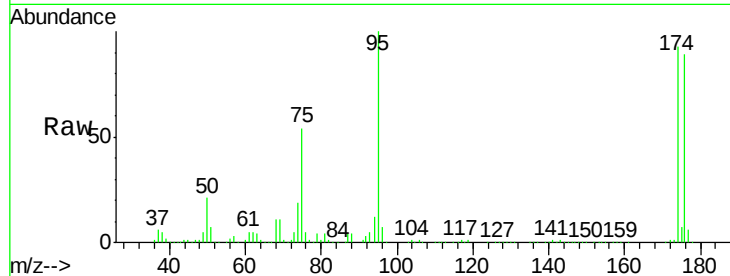




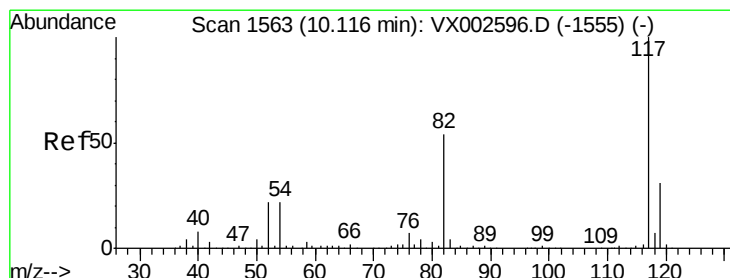
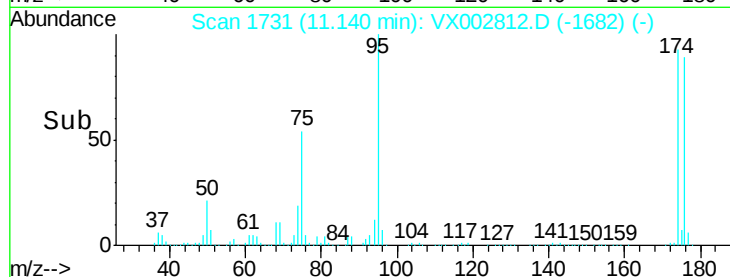
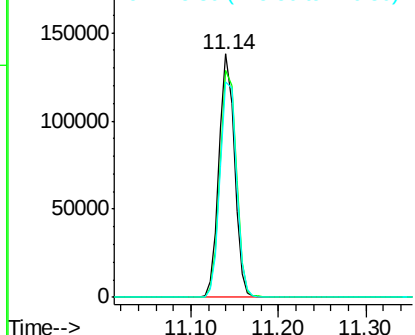
#62
4-Bromofluorobenzene
Concen: 43.56 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#15

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

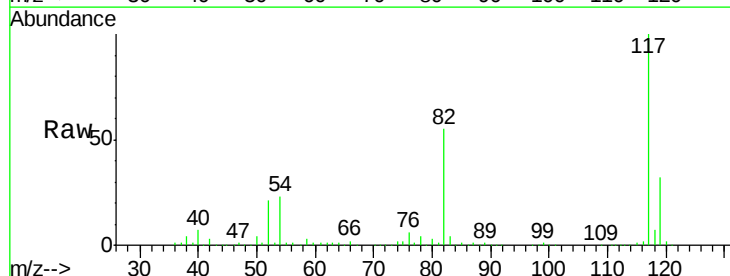


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

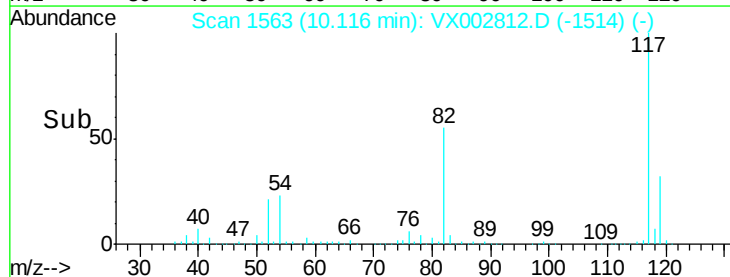
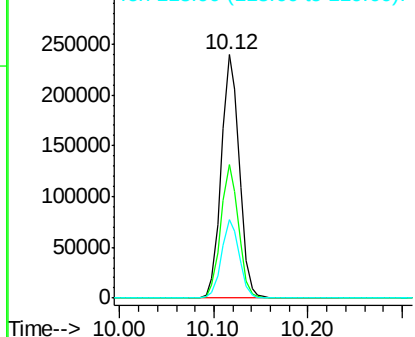


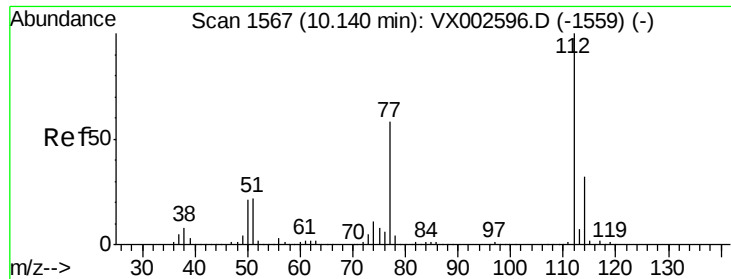
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002812.D
Acq: 22 Jun 2018 02:40

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 :

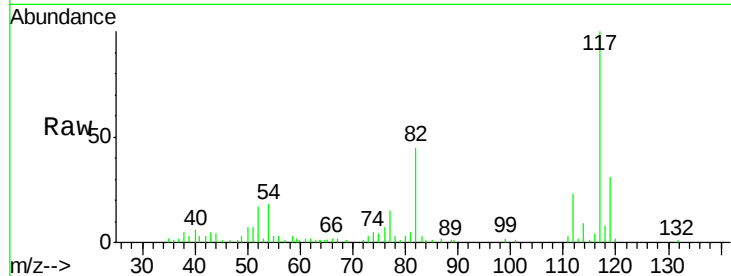
PB110441ZHE#15

Tot Ion:112 Resp: 3146

Ion Ratio Lower Upper

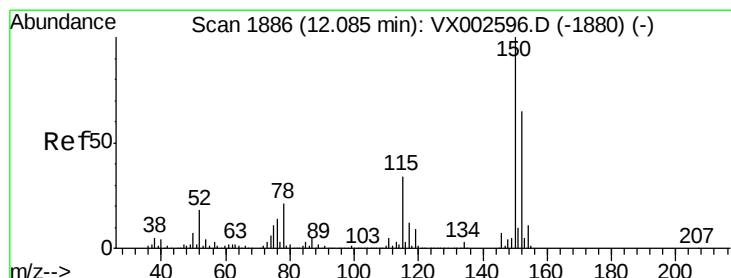
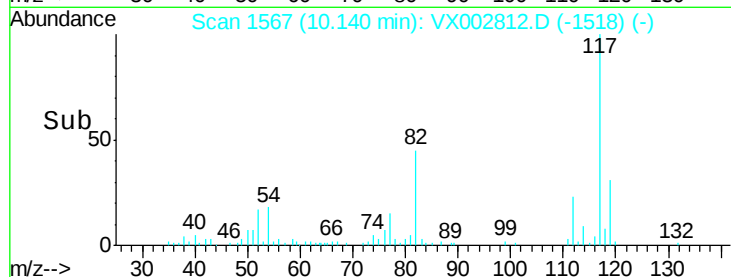
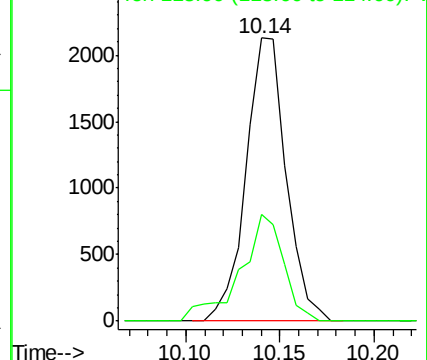
112 100

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

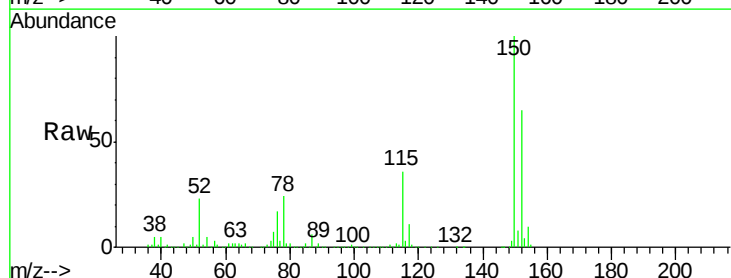
Tgt Ion:152 Resp: 180457

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

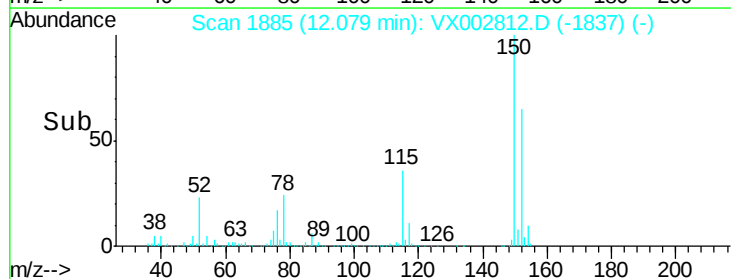
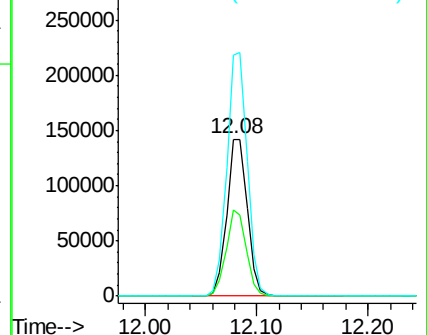
150 154.9 0.0 347.2

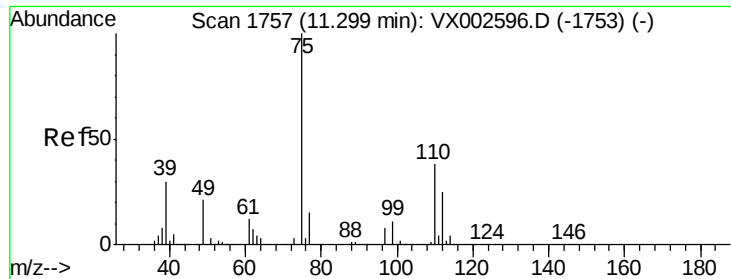


Abundance Ion 151.90 (151.60 to 152.60): V

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

ClientSampleId :

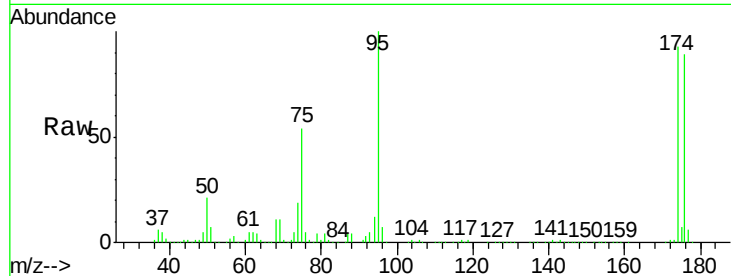
PB110441ZHE#15

Tot Ion: 75 Resp: 90846

Ion Ratio Lower Upper

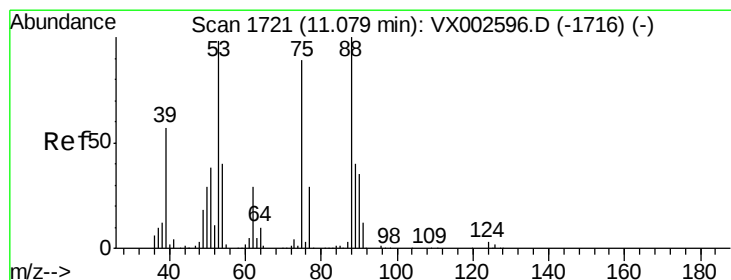
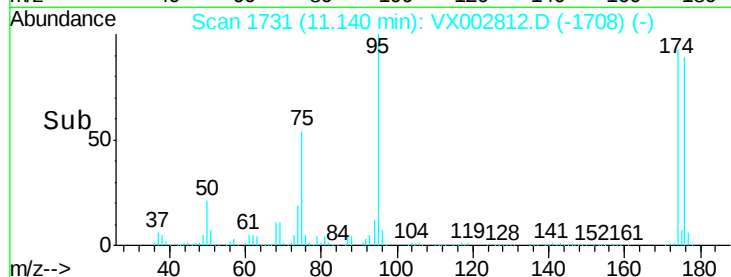
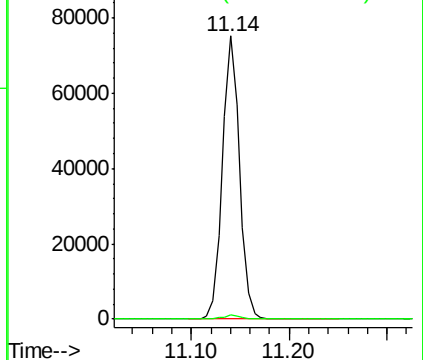
75 100

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

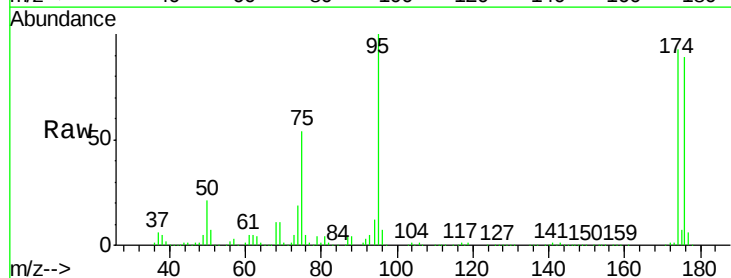
Tgt Ion: 75 Resp: 90846

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

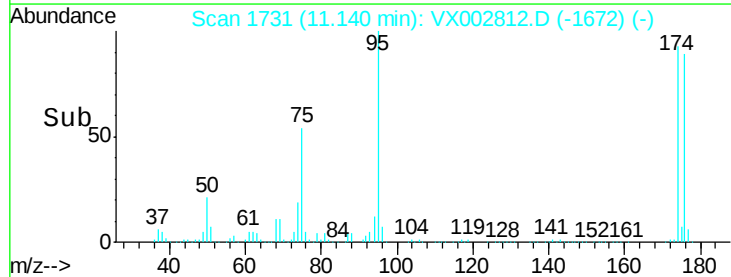
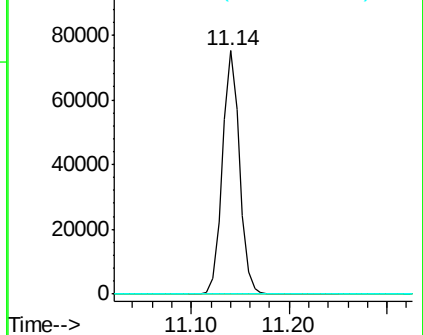
89 0.0 38.2 57.2#

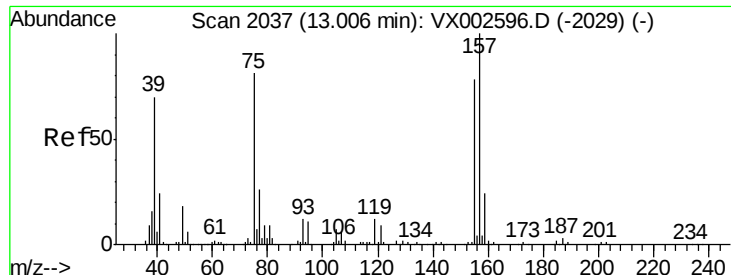


Abundance Ion 74.90 (74.60 to 75.60): VX0

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 :

PB110441ZHE#15

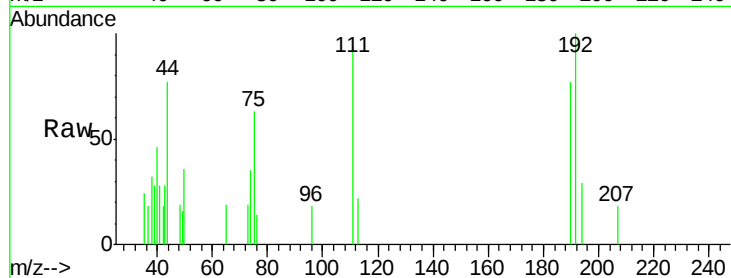
Tot Ion: 75 Resp: 343

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

