

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002823.D
 Acq On : 22 Jun 2018 07:31
 Operator : JC/MD
 Sample : PB110441ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 08:24:27 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	251002	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	354781	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	336205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196998	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	171045	44.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.68%	
35) Dibromofluoromethane	5.51	113	133502	47.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.30%	
50) Toluene-d8	8.72	98	507881	47.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.48%	
62) 4-Bromofluorobenzene	11.14	95	184150	45.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.40%	

Target Compounds

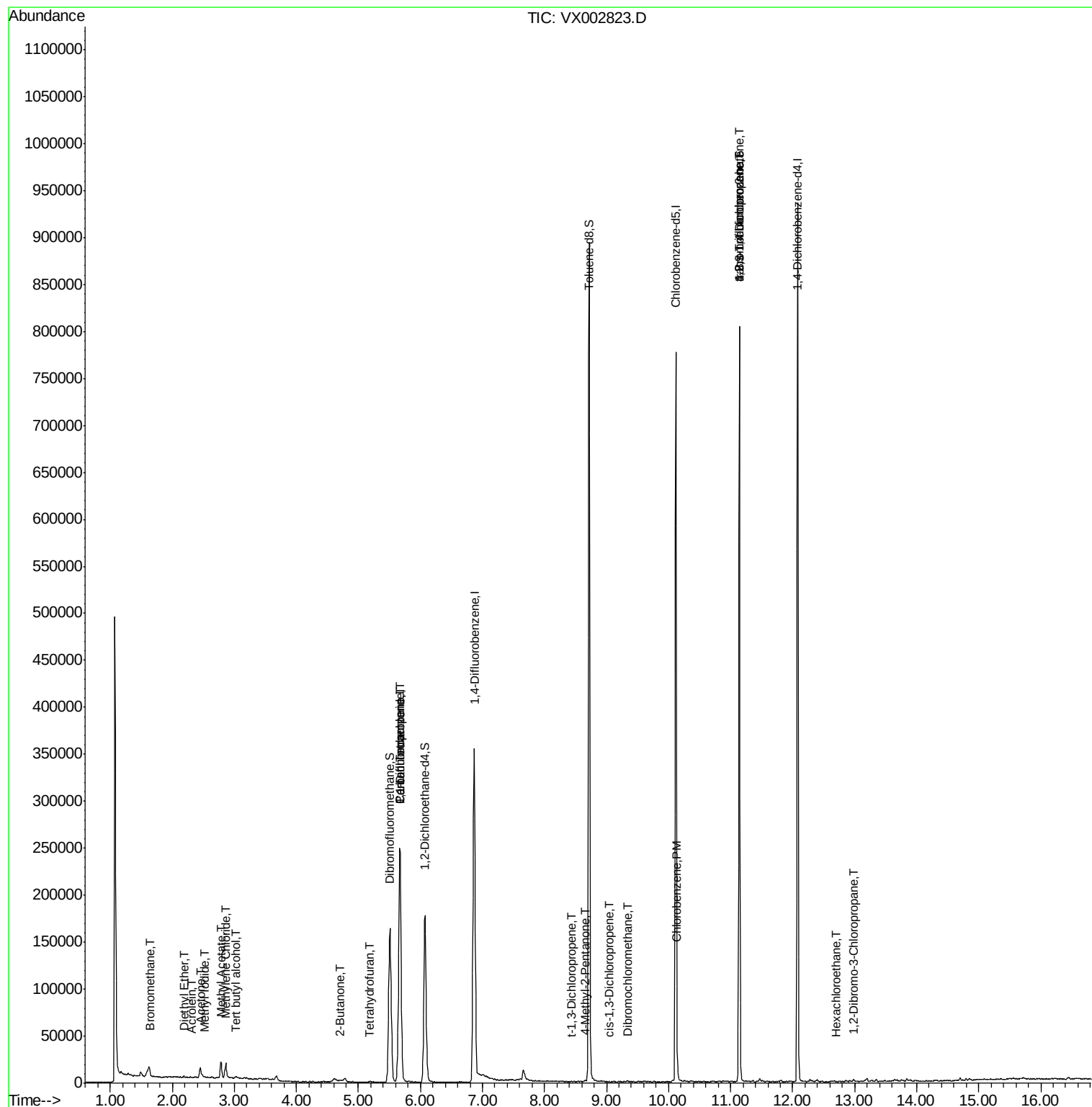
						Qvalue
5) Bromomethane	1.64	94	624	0.31	ug/l	93
8) Diethyl Ether	2.19	74	539	0.27	ug/l #	49
10) Methyl Iodide	2.52	142	958	5.39	ug/l #	90
11) Tert butyl alcohol	3.02	59	1419	1.80	ug/l #	91
13) Acrolein	2.31	56	347	7.78	ug/l #	1
16) Acetone	2.45	43	11925	7.09	ug/l	97
18) Methyl Acetate	2.78	43	21923	4.89	ug/l	97
20) Methylene Chloride	2.86	84	7124	2.06	ug/l #	92
25) 2-Butanone	4.70	43	2366	1.07	ug/l	96
29) Tetrahydrofuran	5.17	42	643	0.44	ug/l	94
36) 1,1-Dichloropropene	5.67	75	17167	4.56	ug/l #	51
38) Carbon Tetrachloride	5.67	117	22769	6.07	ug/l #	16
51) 4-Methyl-2-Pentanone	8.66	43	1122	0.25	ug/l #	85
53) t-1,3-Dichloropropene	8.43	75	50	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	20	3.22	ug/l #	78
60) Dibromochloromethane	9.33	129	42	3.77	ug/l #	11
65) Chlorobenzene	10.14	112	2754	0.33	ug/l #	87
76) 1,2,3-Trichloropropane	11.14	75	98164	26.41	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	98164	81.61	ug/l #	7
90) Hexachloroethane	12.70	117	88	2.67	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.98	75	330	0.40	ug/l #	4

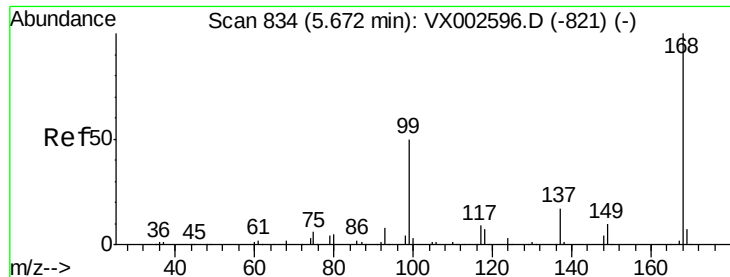
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: Jun 22 08:24:27 2018
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: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

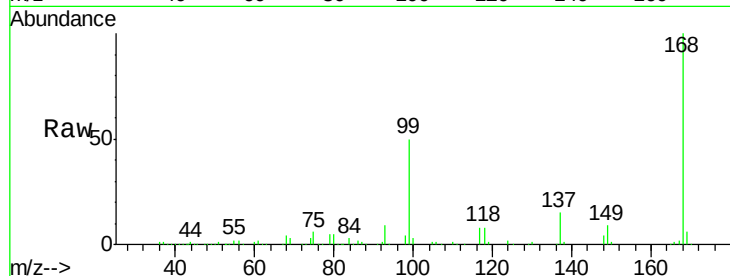
ClientSampleId :

Tot Ion:168 Resp: 251002

Ion Ratio Lower Upper

168 100

99 50.0 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

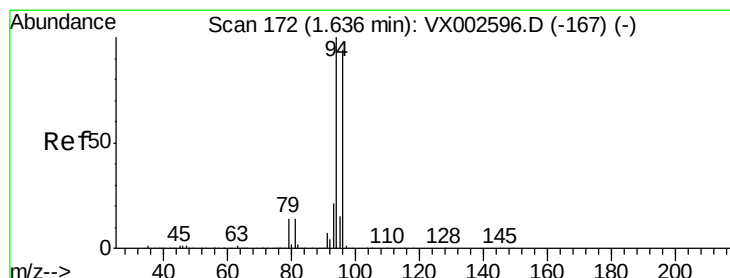
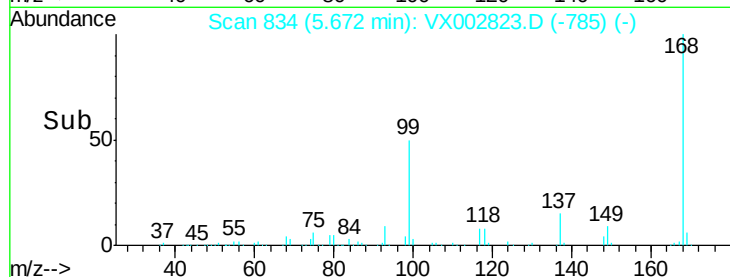
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.31 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002823.D

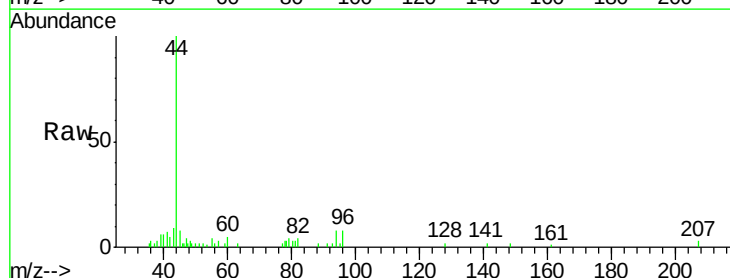
Acq: 22 Jun 2018 07:31

Tgt Ion: 94 Resp: 624

Ion Ratio Lower Upper

94 100

96 100.0 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

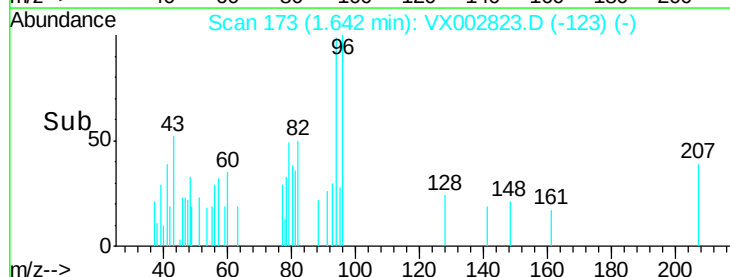
300

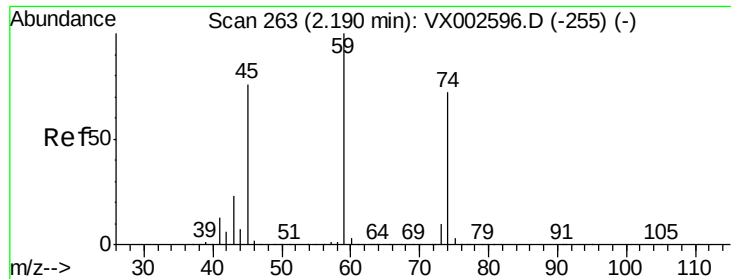
200

100

0

Time--> 1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.27 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

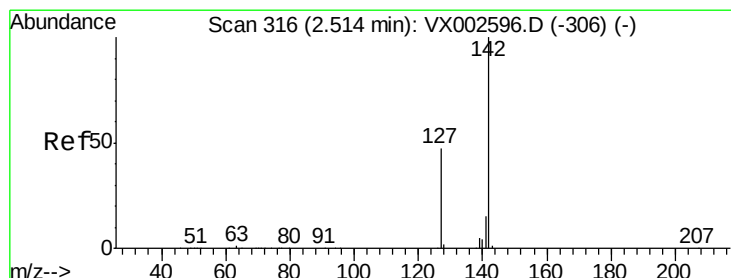
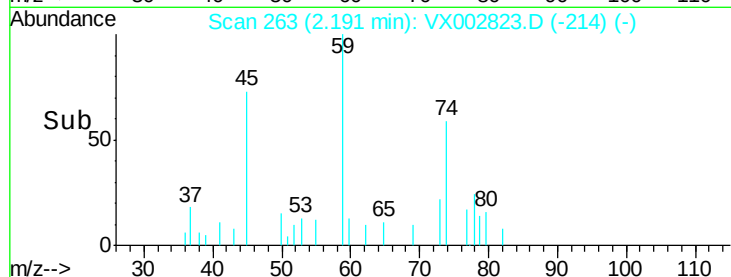
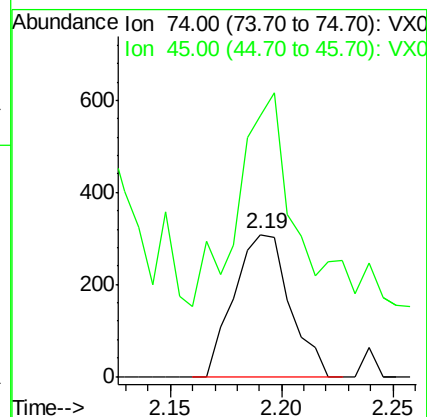
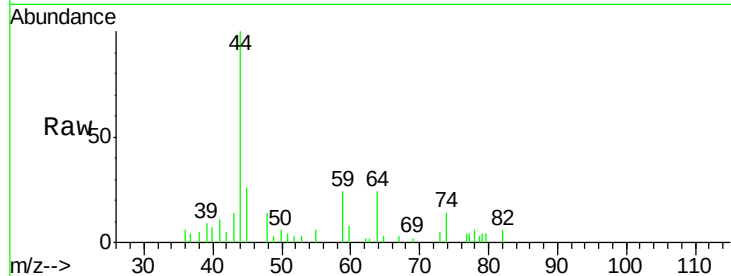
ClientSampleId :

Tot Ion: 74 Resp: 539

Ion Ratio Lower Upper

74 100

45 159.6 53.1 159.4#



#10

Methyl Iodide

Concen: 5.39 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

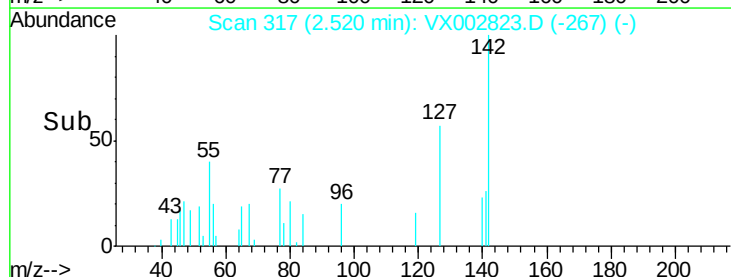
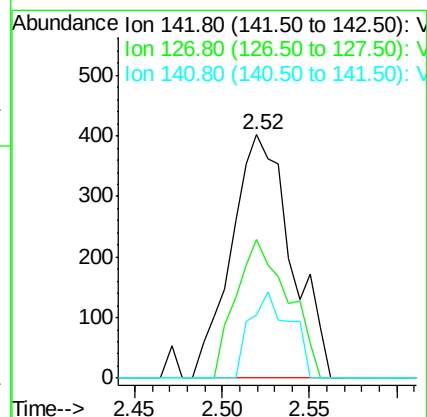
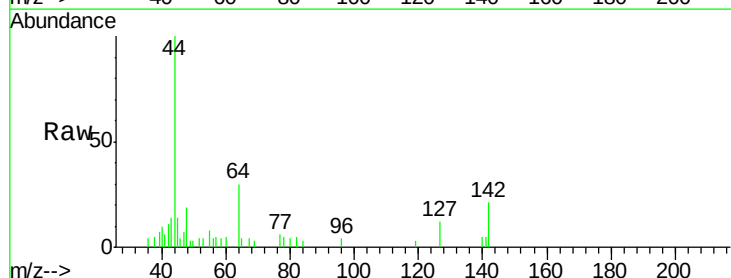
Tgt Ion: 142 Resp: 958

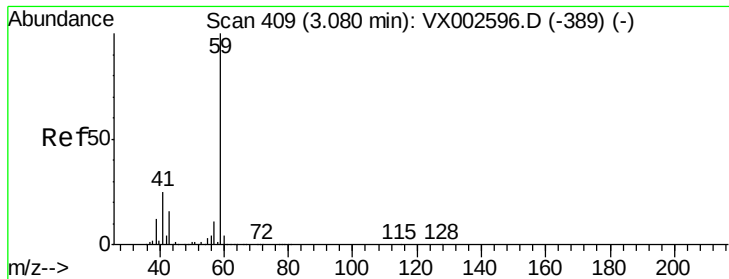
Ion Ratio Lower Upper

142 100

127 49.6 36.6 55.0

141 23.8 11.3 16.9#



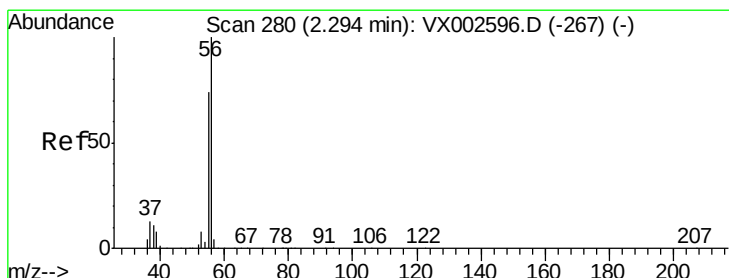
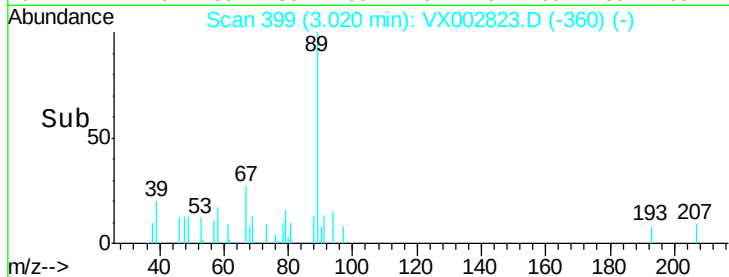
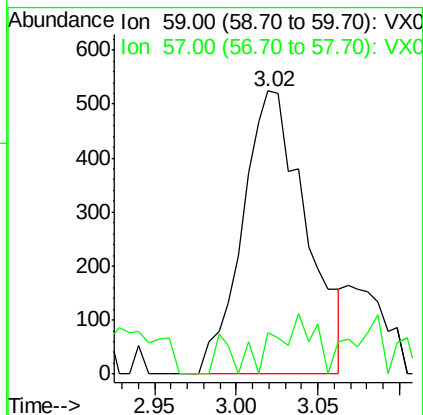
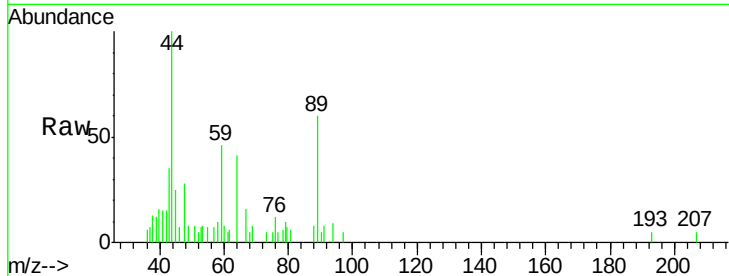


#11

Tert butyl alcohol
 Concen: 1.80 ug/l
 RT: 3.02 min Scan# 399
 Delta R.T. -0.06 min
 Lab File: VX002823.D
 Acq: 22 Jun 2018 07:31

Instrument :
 MSVOA_X
 ClientSampled :

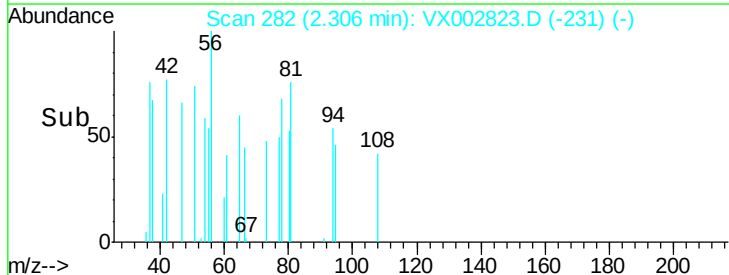
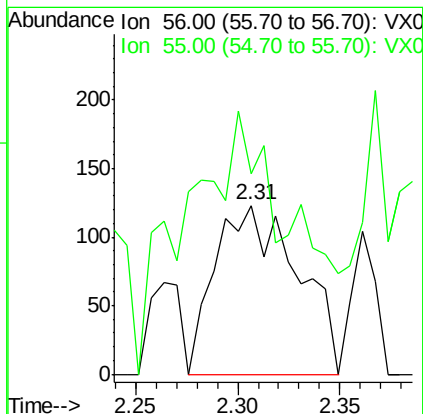
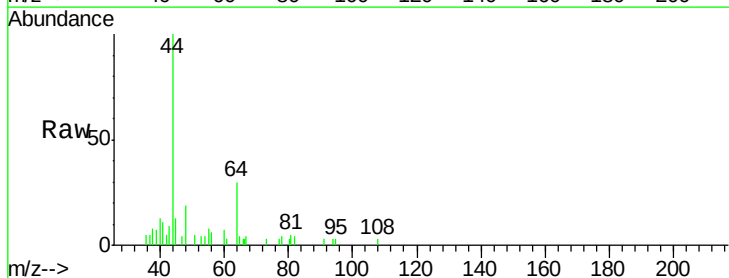
Tot Ion: 59 Resp: 1419
 Ion Ratio Lower Upper
 59 100
 57 13.4 8.2 12.2#

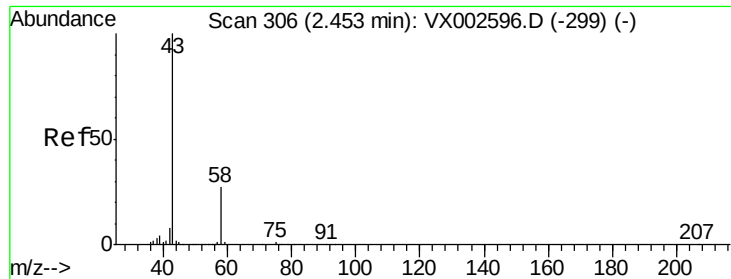


#13

Acrolein
 Concen: 7.78 ug/l
 RT: 2.31 min Scan# 282
 Delta R.T. 0.01 min
 Lab File: VX002823.D
 Acq: 22 Jun 2018 07:31

Tgt Ion: 56 Resp: 347
 Ion Ratio Lower Upper
 56 100
 55 162.5 57.0 85.4#





#16

Acetone

Concen: 7.09 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

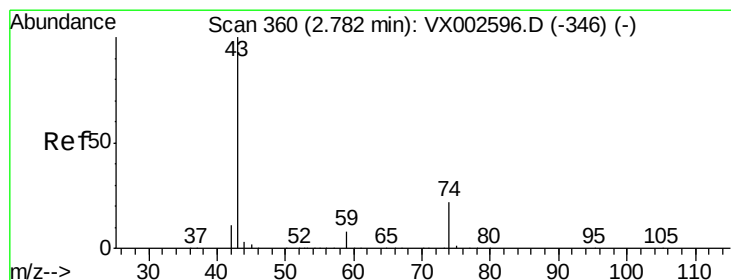
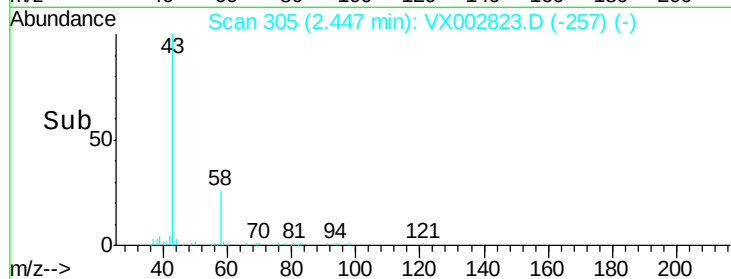
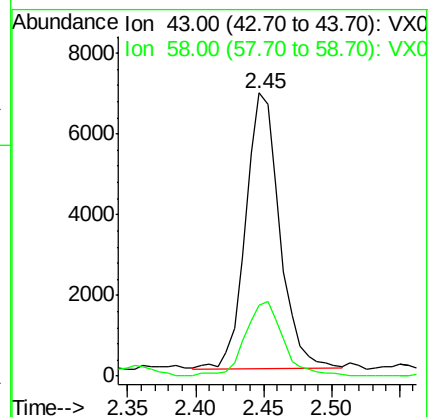
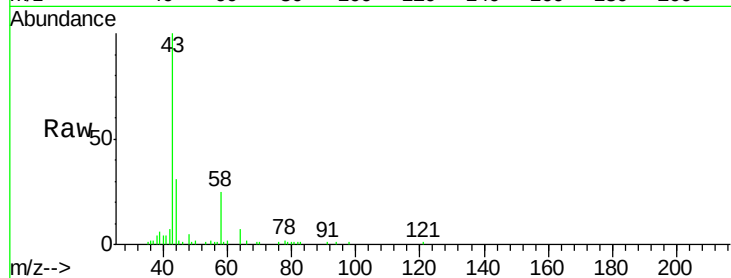
ClientSampleId :

Tot Ion: 43 Resp: 11925

Ion Ratio Lower Upper

43 100

58 25.9 22.1 33.1



#18

Methyl Acetate

Concen: 4.89 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002823.D

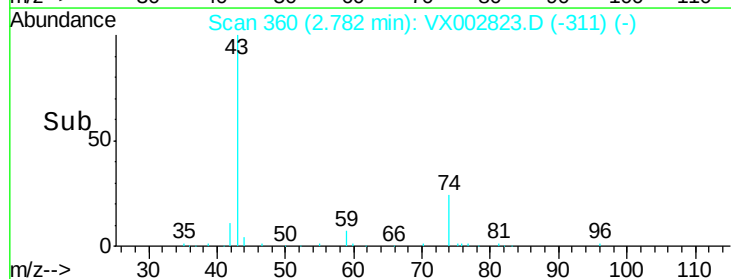
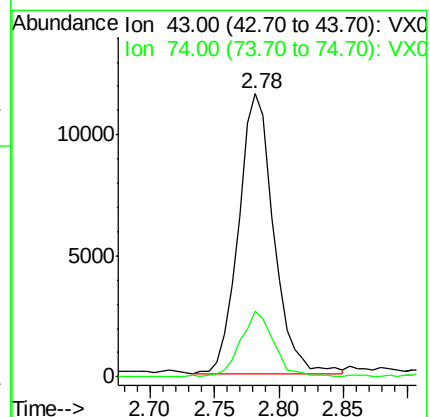
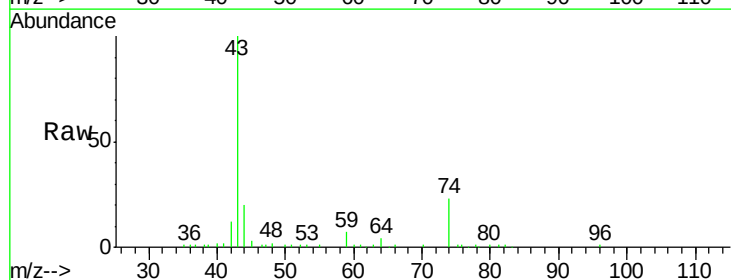
Acq: 22 Jun 2018 07:31

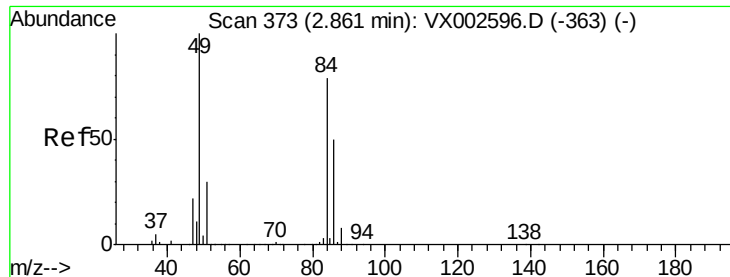
Tgt Ion: 43 Resp: 21923

Ion Ratio Lower Upper

43 100

74 22.1 16.7 25.1

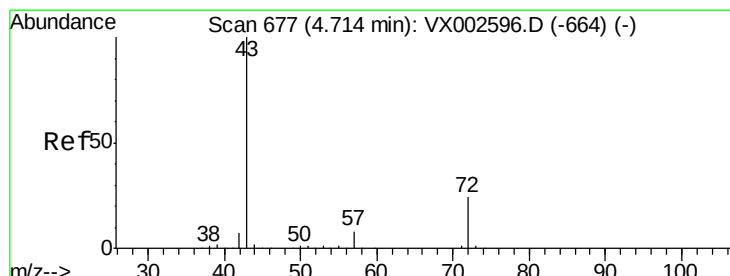
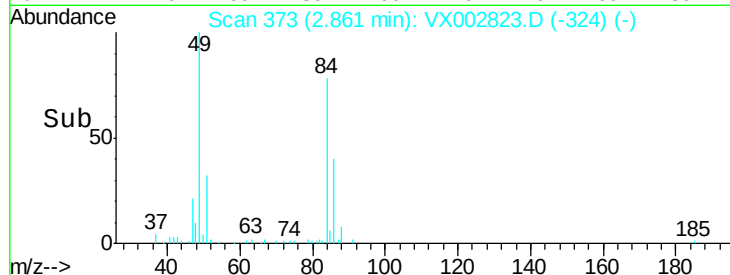
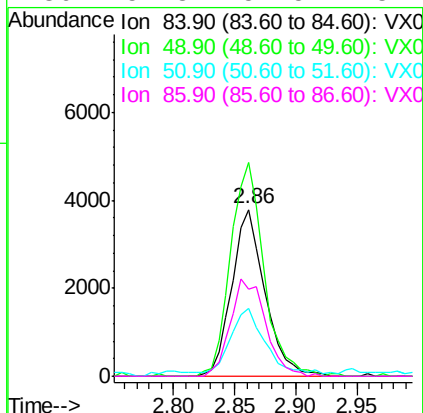
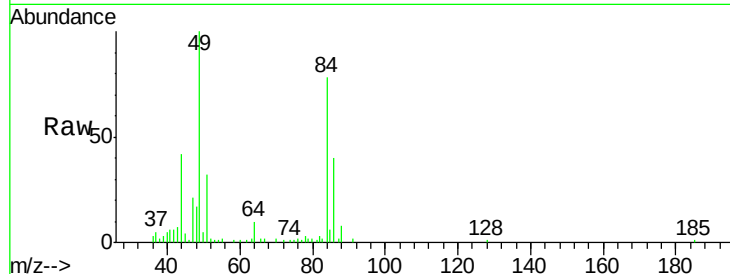




#20
Methylene Chloride
Concen: 2.06 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002823.D
Acq: 22 Jun 2018 07:31

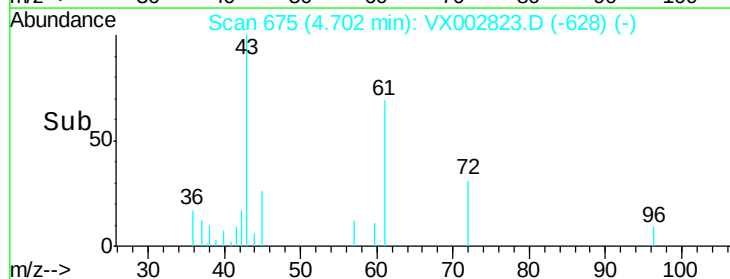
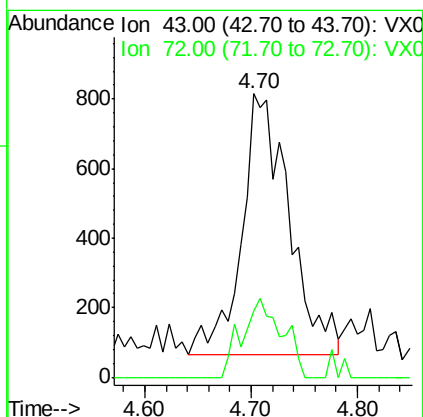
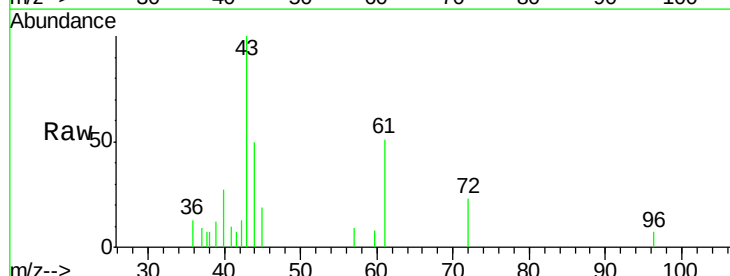
Instrument :
MSVOA_X
ClientSampleId :

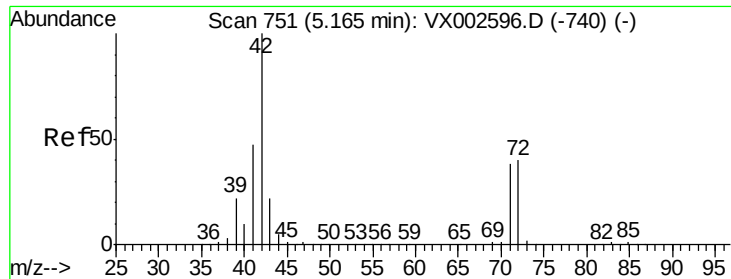
Tot Ion: 84 Resp: 7124
Ion Ratio Lower Upper
84 100
49 127.9 107.8 161.6
51 39.1 32.8 49.2
86 51.8 52.5 78.7#



#25
2-Butanone
Concen: 1.07 ug/l
RT: 4.70 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX002823.D
Acq: 22 Jun 2018 07:31

Tgt Ion: 43 Resp: 2366
Ion Ratio Lower Upper
43 100
72 25.1 18.5 27.7

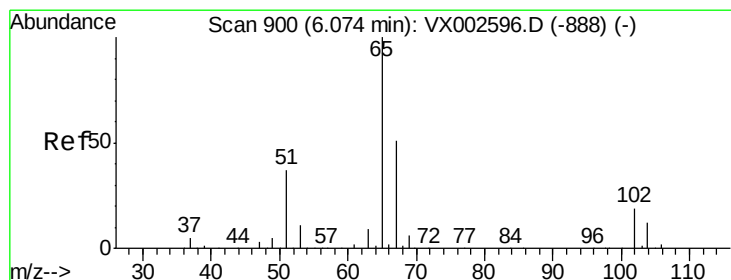
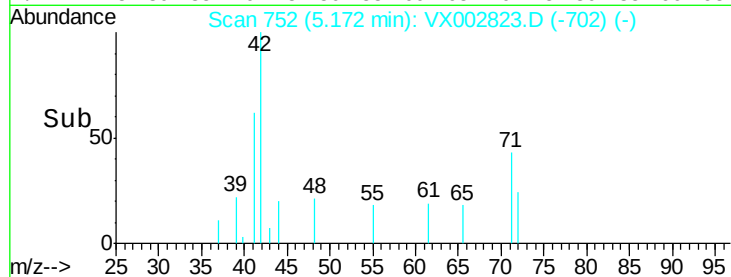
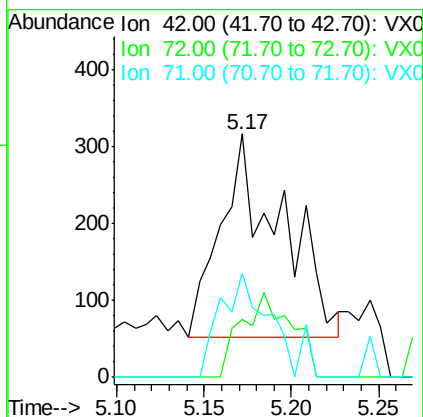
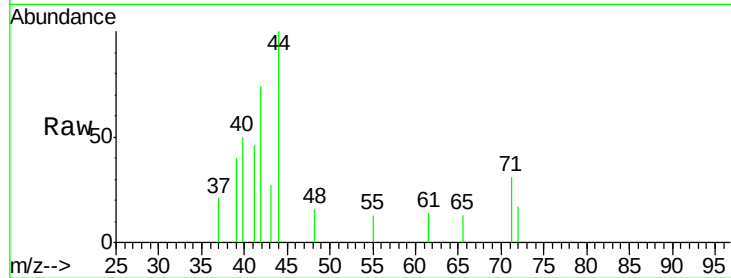




#29
Tetrahydrofuran
Concen: 0.44 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002823.D
Acq: 22 Jun 2018 07:31

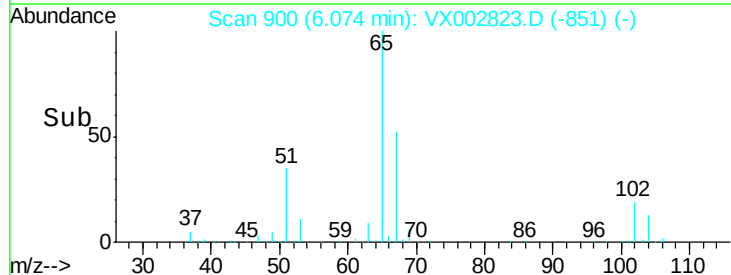
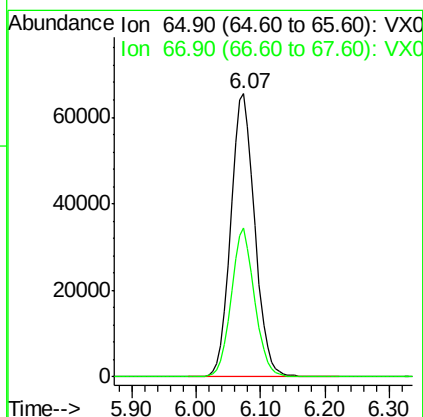
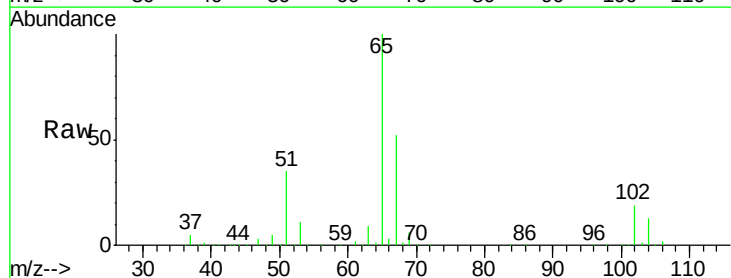
Instrument :
MSVOA_X
ClientSampleId :

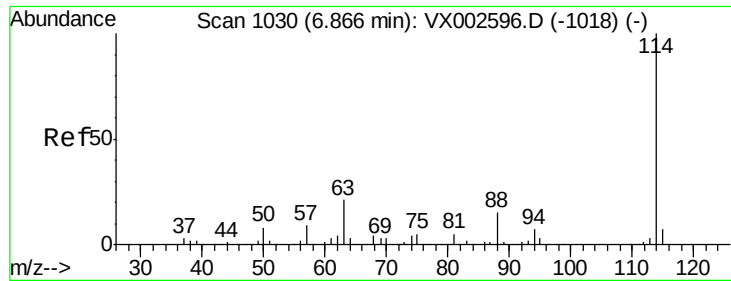
Tot Ion: 42 Resp: 643
Ion Ratio Lower Upper
42 100
72 33.9 32.0 48.0
71 39.2 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 44.84 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002823.D
Acq: 22 Jun 2018 07:31

Tgt Ion: 65 Resp: 171045
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6

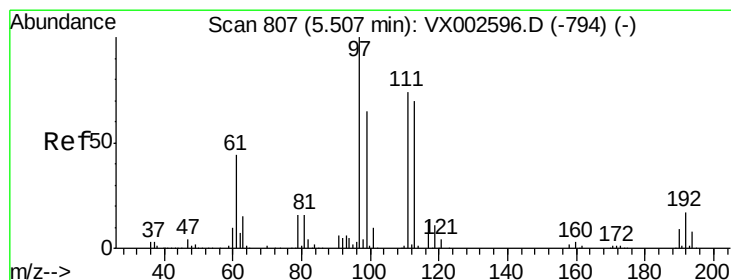
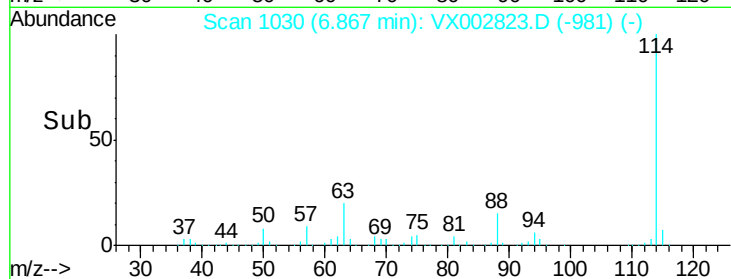
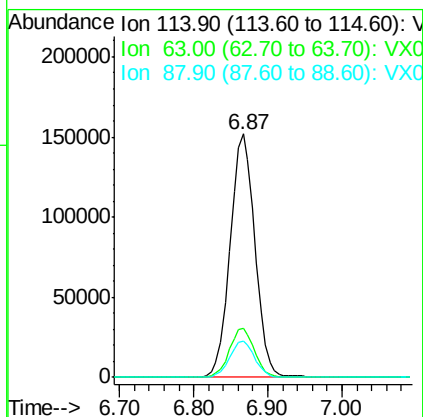
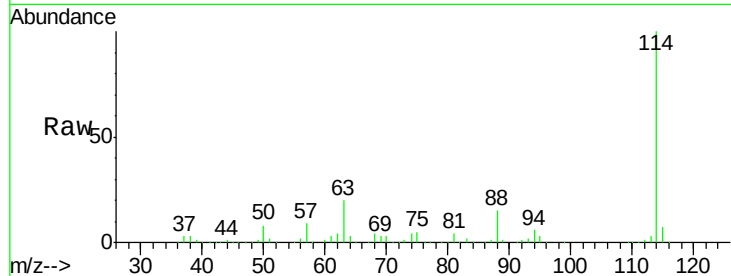




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002823.D
 Acq: 22 Jun 2018 07:31

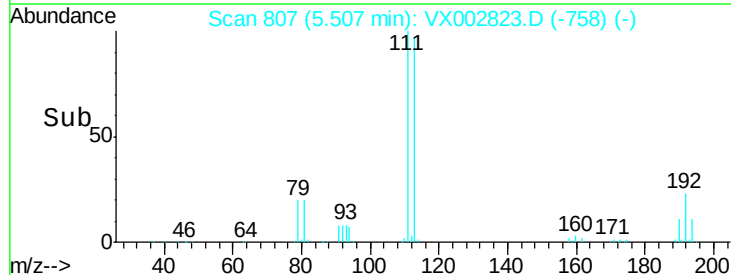
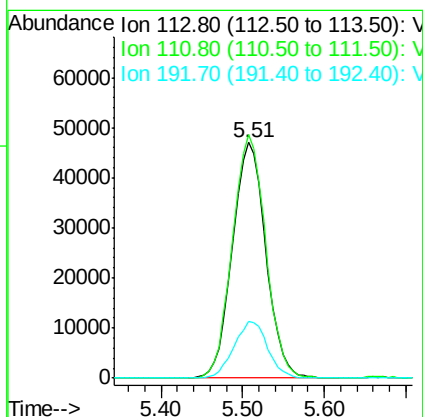
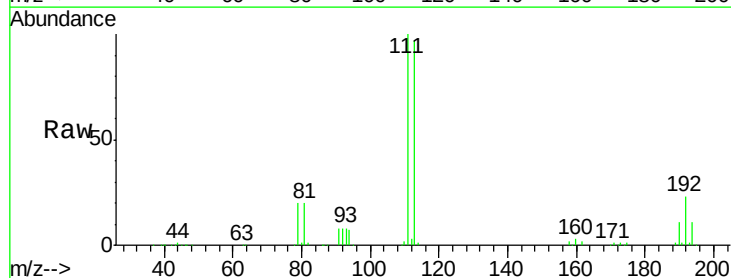
Instrument :
 MSVOA_X
 ClientSampleId :

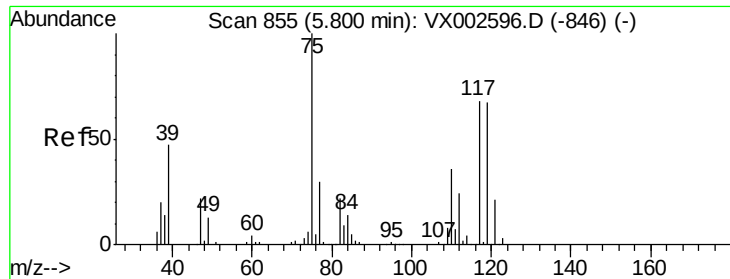
Tot Ion:114 Resp: 354781
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 14.8 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 47.15 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002823.D
 Acq: 22 Jun 2018 07:31

Tgt Ion:113 Resp: 133502
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.4 122.0
 192 24.3 19.1 28.7





#36

1,1-Dichloropropene

Concen: 4.56 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :
MSVOA_X
ClientSampleId :

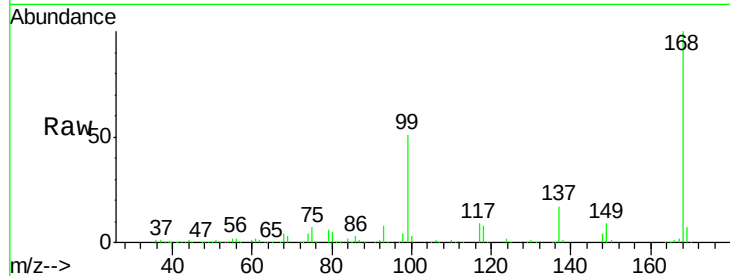
Tot Ion: 75 Resp: 17167

Ion Ratio Lower Upper

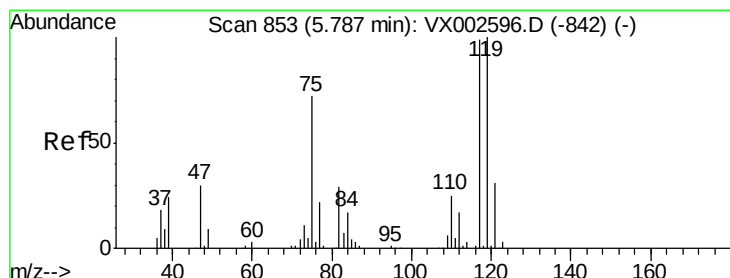
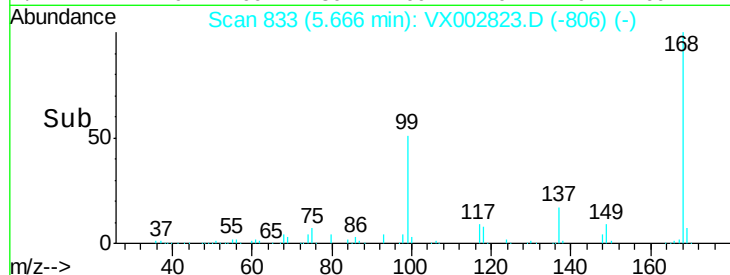
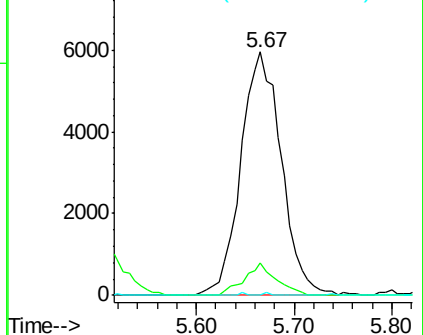
75 100

110 10.5 18.1 54.4#

77 0.1 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: 6.07 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

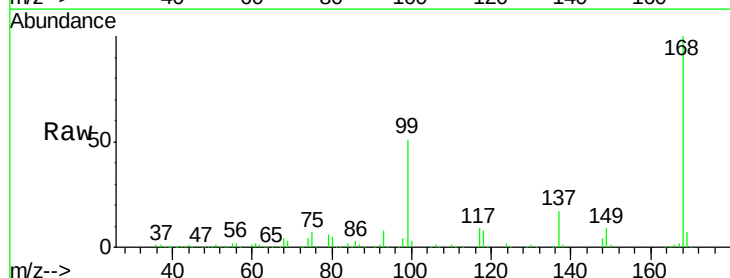
Tgt Ion: 117 Resp: 22769

Ion Ratio Lower Upper

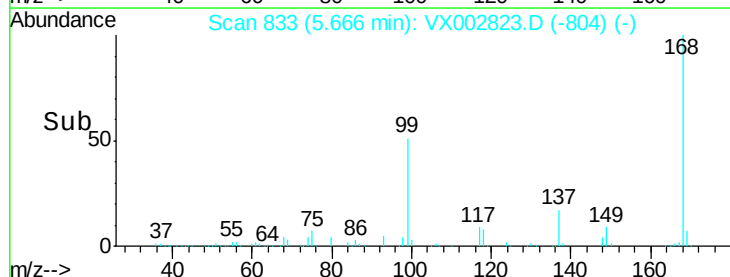
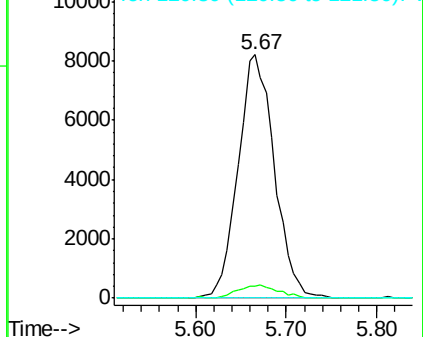
117 100

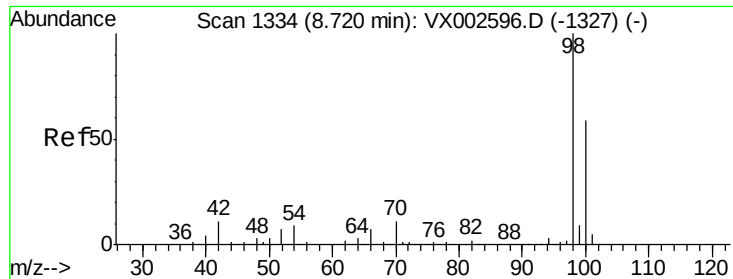
119 5.0 77.4 116.0#

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

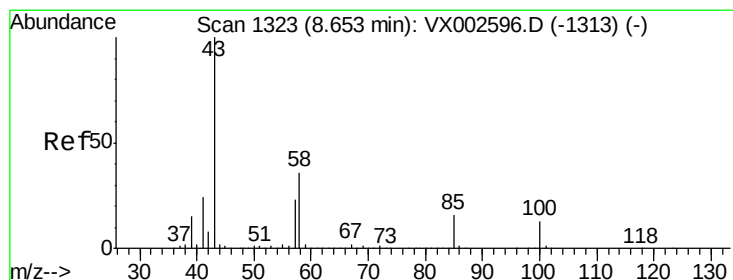
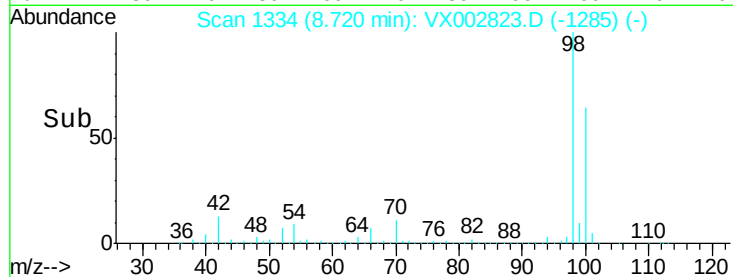
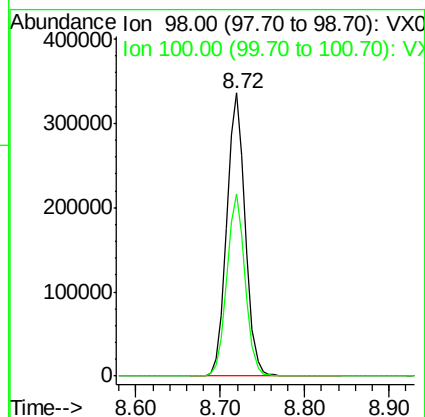
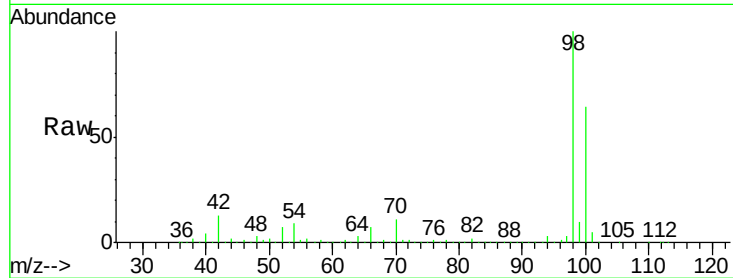




#50
Toluene-d8
Concen: 47.24 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002823.D
Acq: 22 Jun 2018 07:31

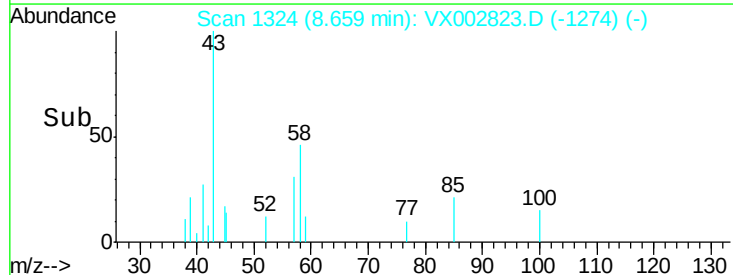
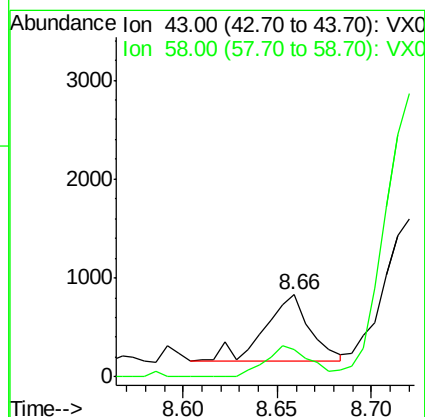
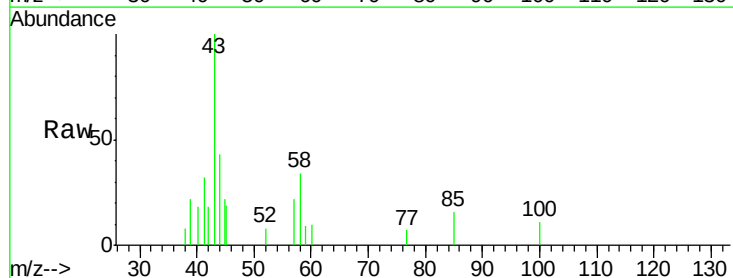
Instrument :
MSVOA_X
ClientSampleId :

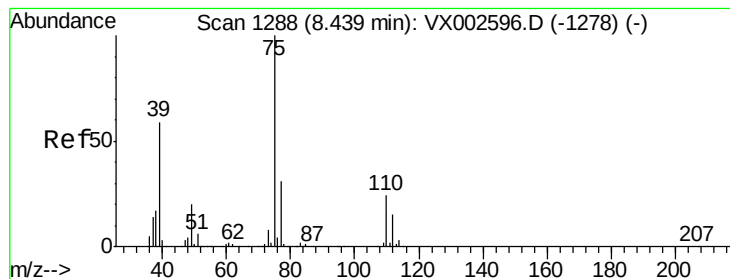
Tot Ion: 98 Resp: 507881
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002823.D
Acq: 22 Jun 2018 07:31

Tgt Ion: 43 Resp: 1122
Ion Ratio Lower Upper
43 100
58 44.6 28.6 42.8#





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.43 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

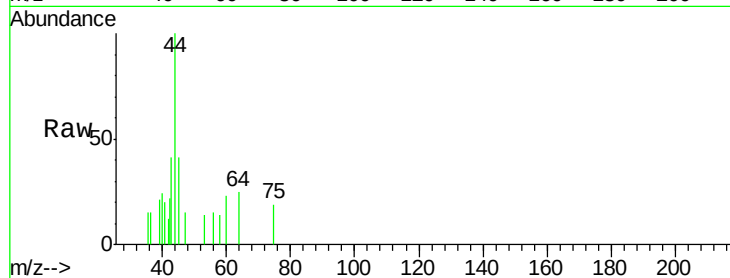
ClientSampleId :

Tot Ion: 75 Resp: 50

Ion Ratio Lower Upper

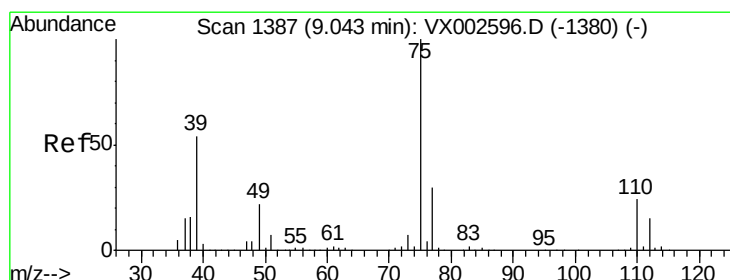
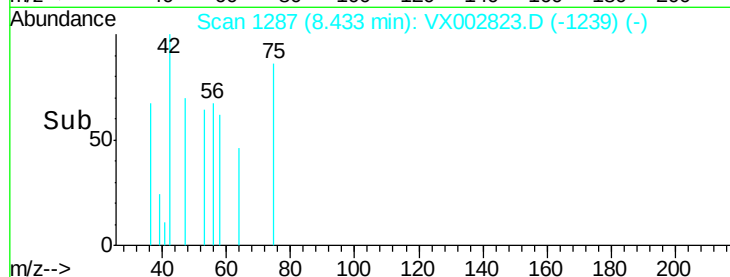
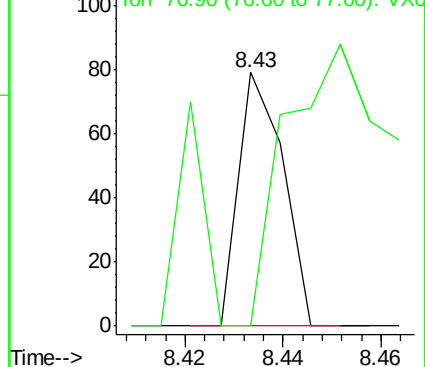
75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

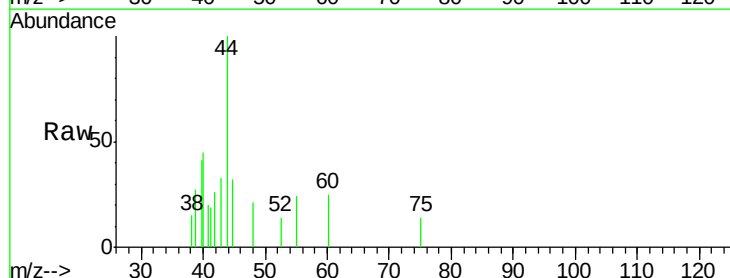
Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

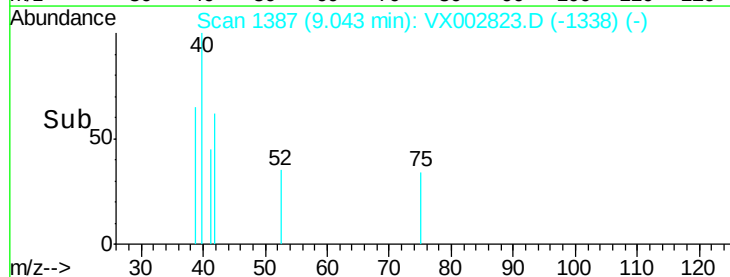
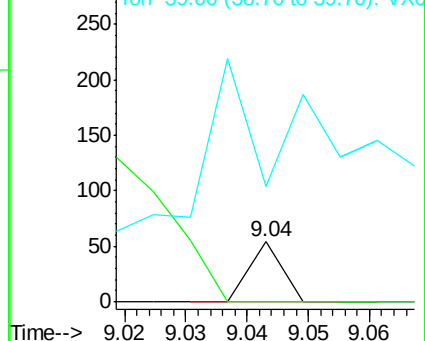
39 51.9 42.4 63.6

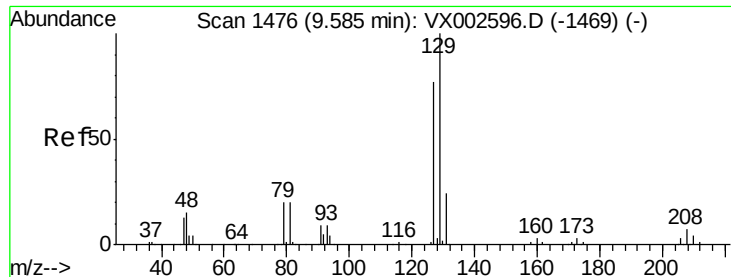


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.33 min Scan# 1434

Delta R.T. -0.26 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

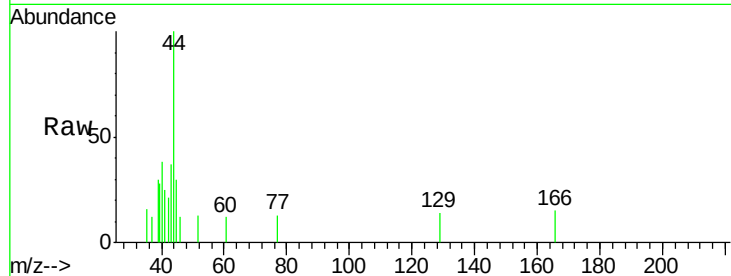
ClientSampleId :

Tot Ion:129 Resp: 42

Ion Ratio Lower Upper

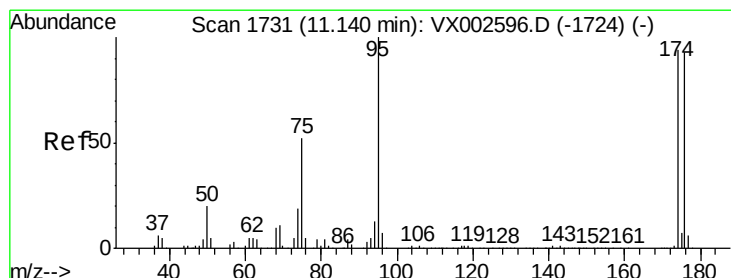
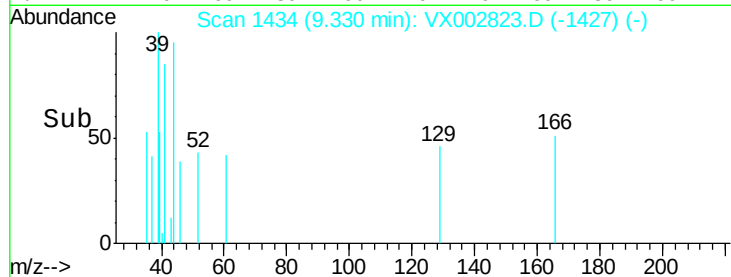
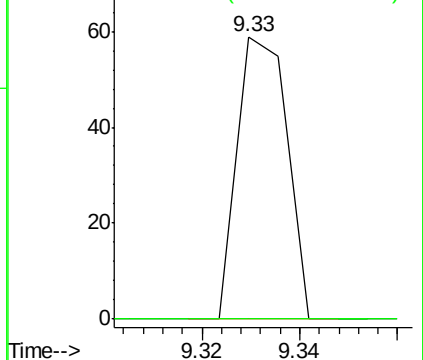
129 100

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: 45.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

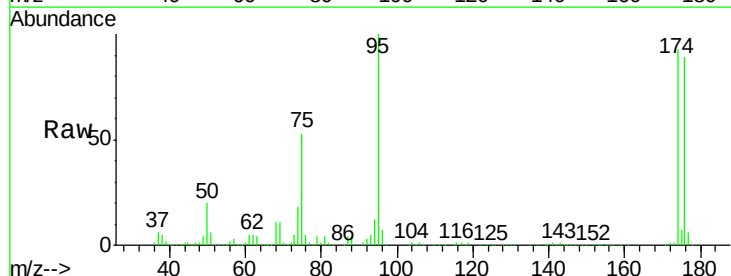
Tgt Ion: 95 Resp: 184150

Ion Ratio Lower Upper

95 100

174 96.8 0.0 187.4

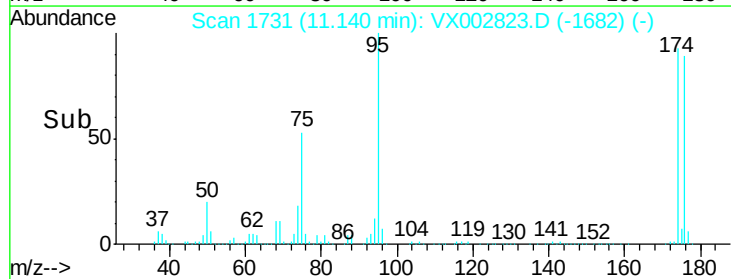
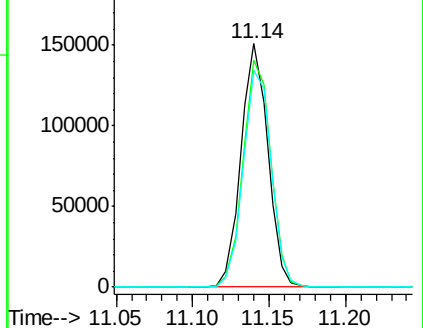
176 92.7 0.0 181.0

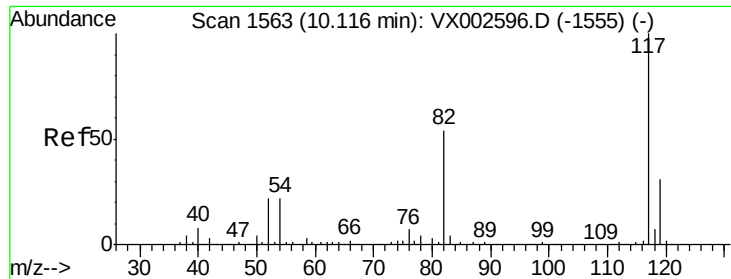


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX002823.D

Acq: 22 Jun 2018 07:31

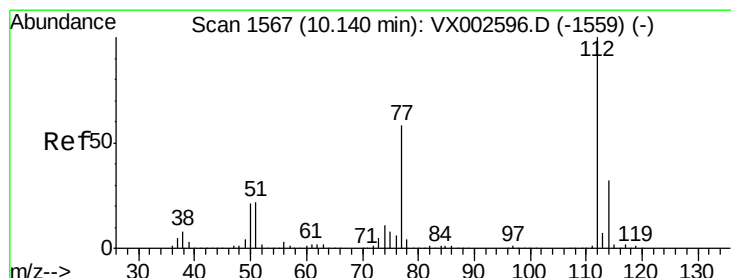
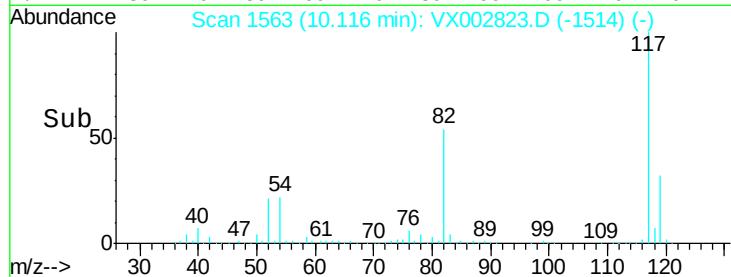
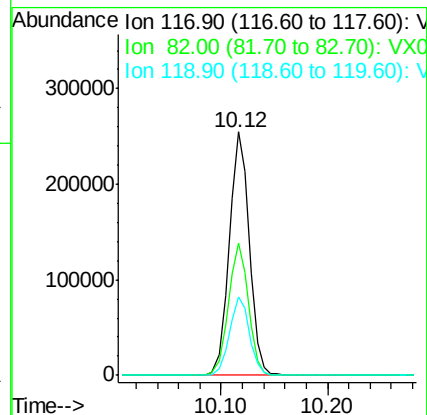
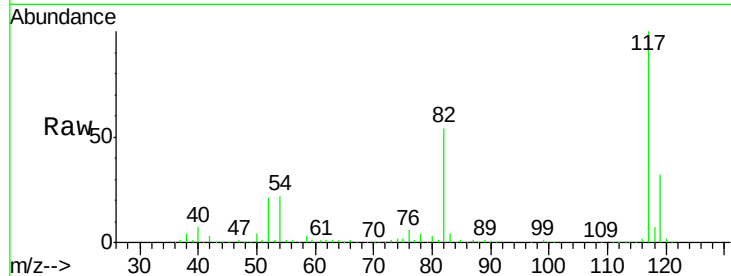
Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 336205

Ion	Ratio	Lower	Upper
117	100		
82	54.2	45.0	67.4
119	32.2	25.8	38.6



#65

Chlorobenzene

Concen: 0.33 ug/l

RT: 10.14 min Scan# 1567

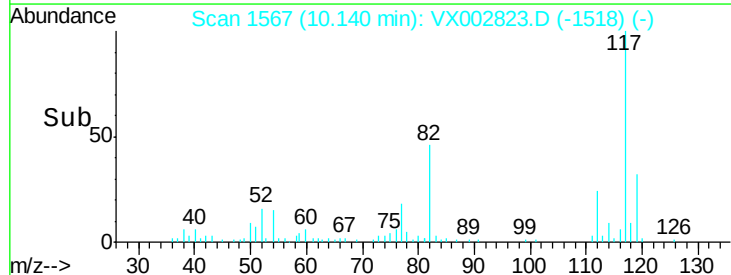
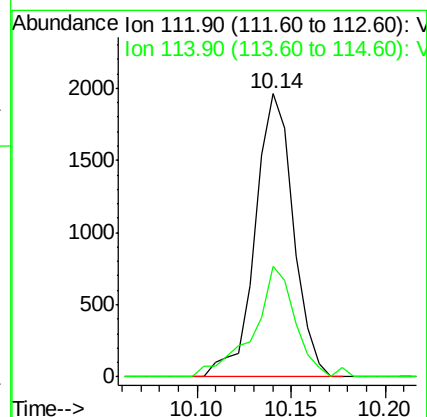
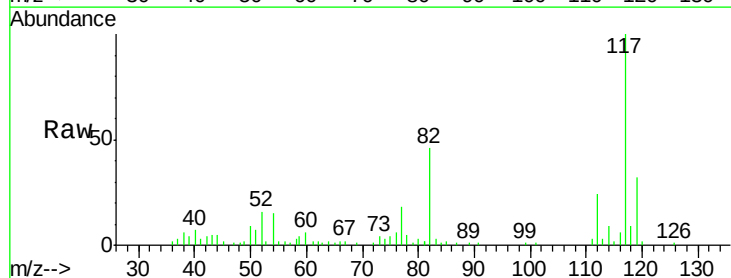
Delta R.T. 0.00 min

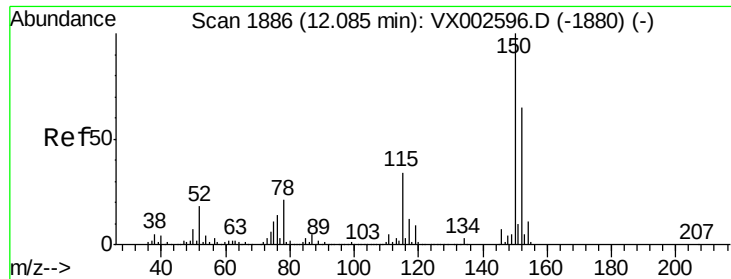
Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Tgt Ion:112 Resp: 2754

Ion	Ratio	Lower	Upper
112	100		
114	39.0	25.3	37.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

ClientSampleId :

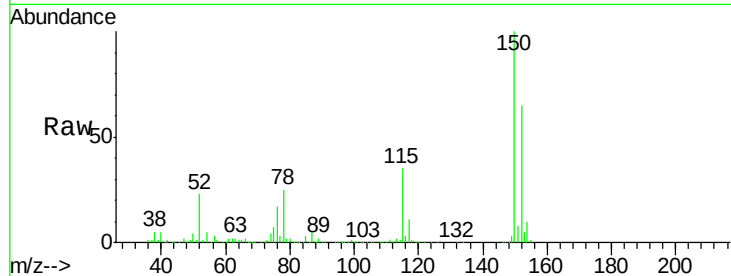
Tot Ion:152 Resp: 196998

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

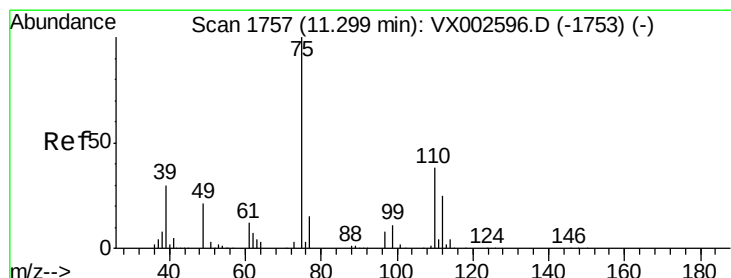
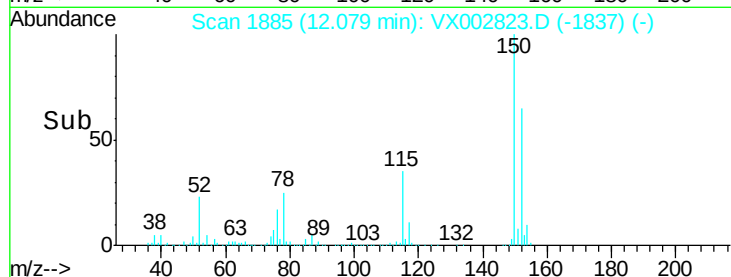
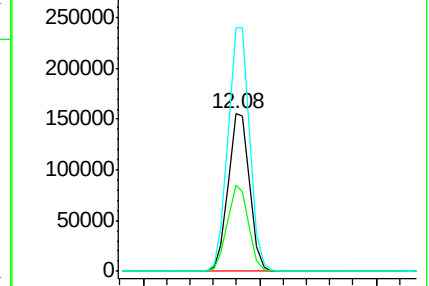
150 156.7 0.0 347.2



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: 26.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002823.D

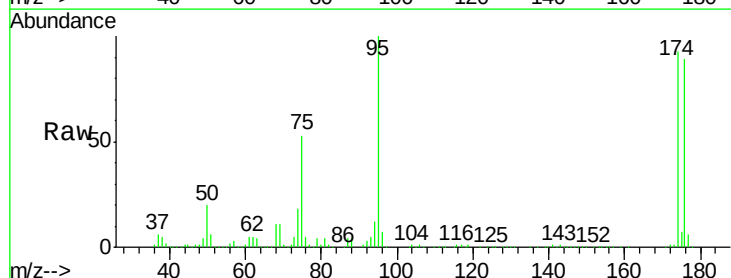
Acq: 22 Jun 2018 07:31

Tgt Ion: 75 Resp: 98164

Ion Ratio Lower Upper

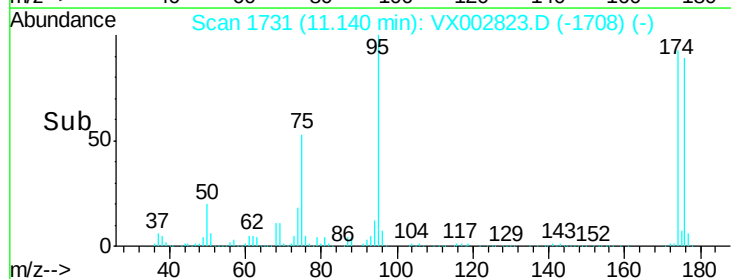
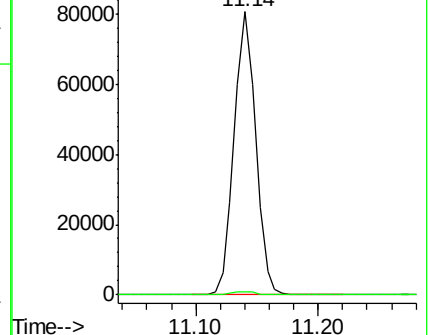
75 100

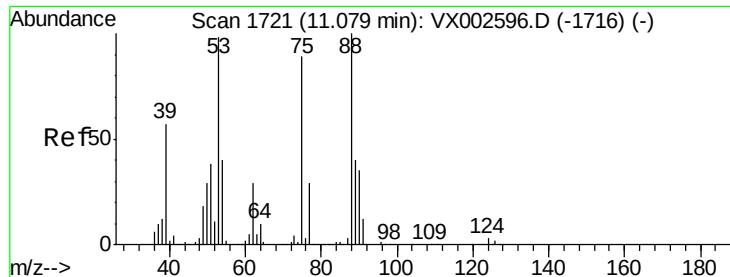
77 1.2 22.8 68.3#



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: 81.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

ClientSampleId :

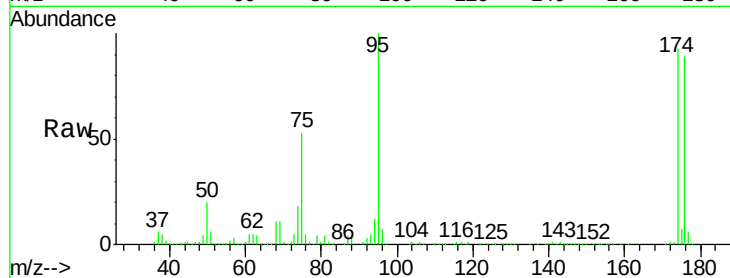
Tot Ion: 75 Resp: 98164

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

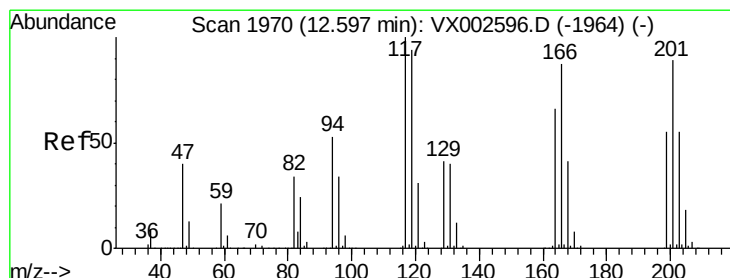
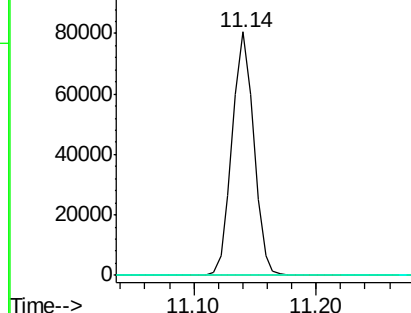
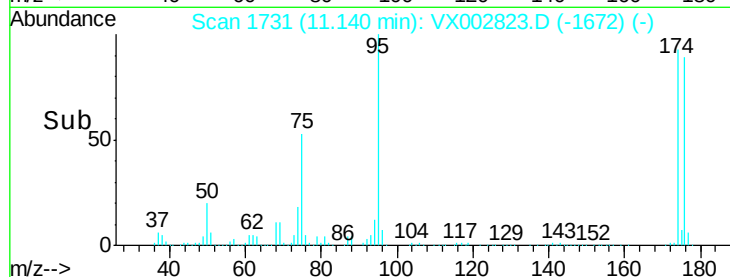
89 0.0 38.2 57.2#



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



#90

Hexachloroethane

Concen: 2.67 ug/l

RT: 12.70 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VX002823.D

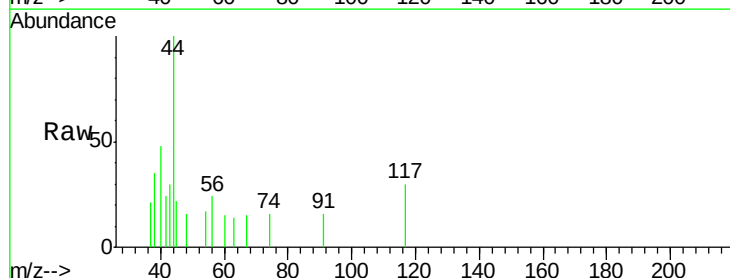
Acq: 22 Jun 2018 07:31

Tgt Ion: 117 Resp: 88

Ion Ratio Lower Upper

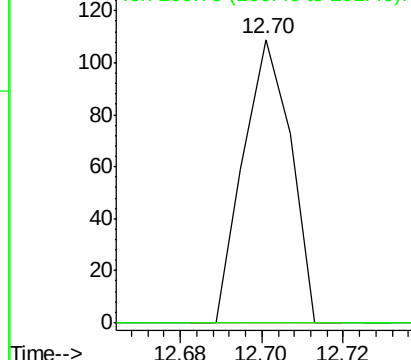
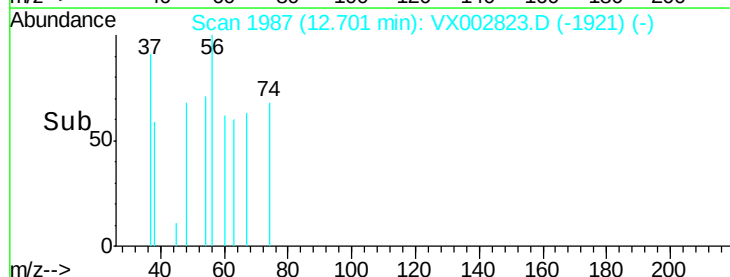
117 100

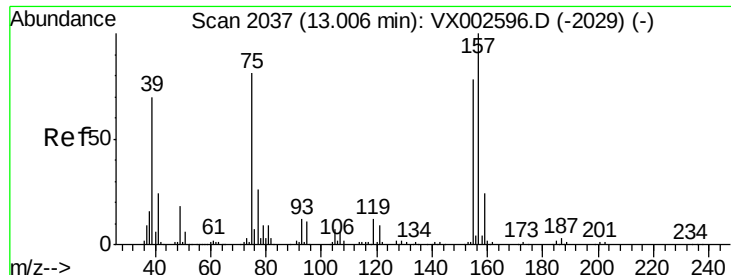
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.40 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX002823.D

Acq: 22 Jun 2018 07:31

Instrument :

MSVOA_X

ClientSampleId :

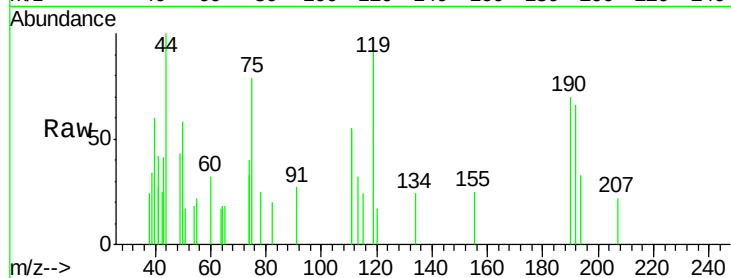
Tot Ion: 75 Resp: 330

Ion Ratio Lower Upper

75 100

155 14.5 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

