

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002824.D
 Acq On : 22 Jun 2018 07:58
 Operator : JC/MD
 Sample : PB110441ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 08:24:42 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	244289	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	346853	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	323963	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	182666	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	168417	45.37	ug/l	0.00
Spiked Amount			Recovery	=	90.74%	
35) Dibromofluoromethane	5.51	113	130613	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
50) Toluene-d8	8.72	98	488592	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	
62) 4-Bromofluorobenzene	11.14	95	173435	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	

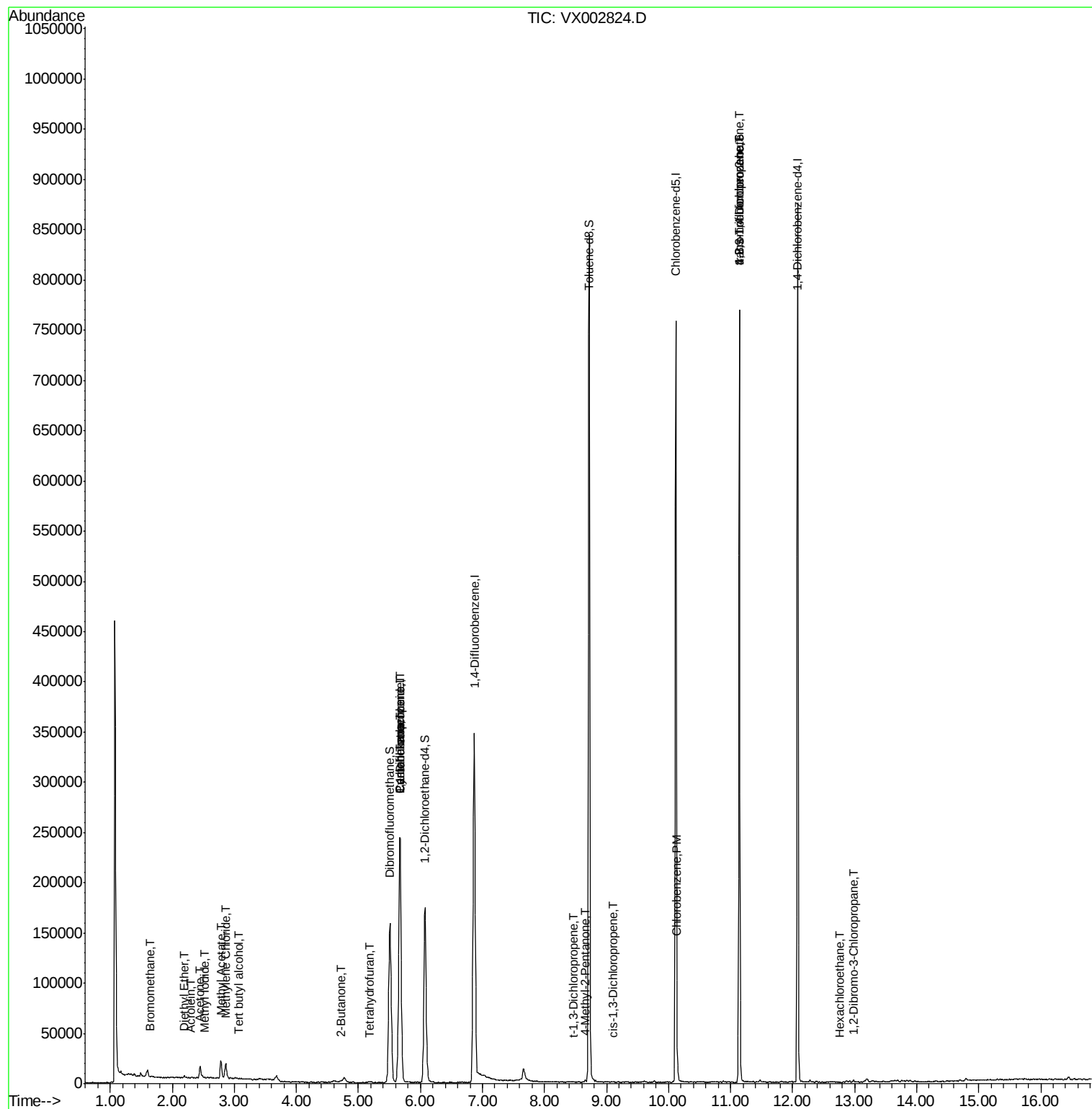
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	598	0.31	ug/l	82
8) Diethyl Ether	2.19	74	700	0.35	ug/l	90
10) Methyl Iodide	2.53	142	855	5.38	ug/l #	89
11) Tert butyl alcohol	3.07	59	359	0.47	ug/l #	91
13) Acrolein	2.29	56	170	7.32	ug/l #	62
16) Acetone	2.45	43	13301	8.12	ug/l	94
18) Methyl Acetate	2.78	43	22081	5.06	ug/l	98
20) Methylene Chloride	2.86	84	6782	2.02	ug/l	94
25) 2-Butanone	4.71	43	1853	0.86	ug/l	97
29) Tetrahydrofuran	5.19	42	1067	0.76	ug/l #	42
31) Cyclohexane	5.67	56	5169	1.18	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16444	4.46	ug/l #	52
38) Carbon Tetrachloride	5.67	117	22664	6.18	ug/l #	17
51) 4-Methyl-2-Pentanone	8.66	43	1427	0.32	ug/l	97
53) t-1,3-Dichloropropene	8.46	75	20	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.10	75	45	3.22	ug/l #	1
65) Chlorobenzene	10.14	112	3292	0.41	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	91850	26.65	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	91850	82.31	ug/l #	7
90) Hexachloroethane	12.76	117	93	2.68	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.98	75	325	0.43	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: VX002824.D

Acq: 22 Jun 2018 07:58

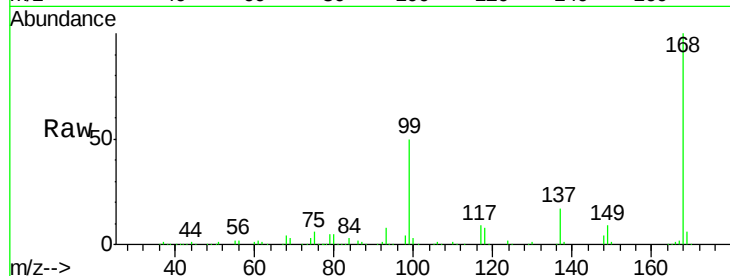
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 244289

Ion Ratio Lower Upper

168 100

99 49.7 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

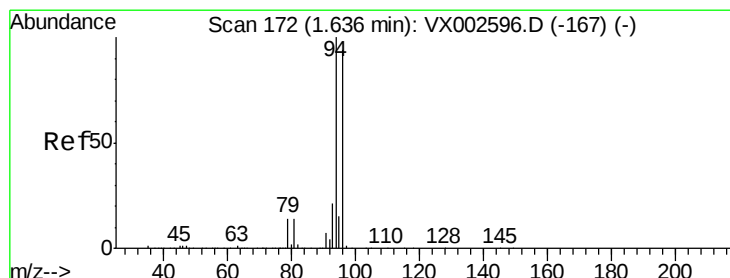
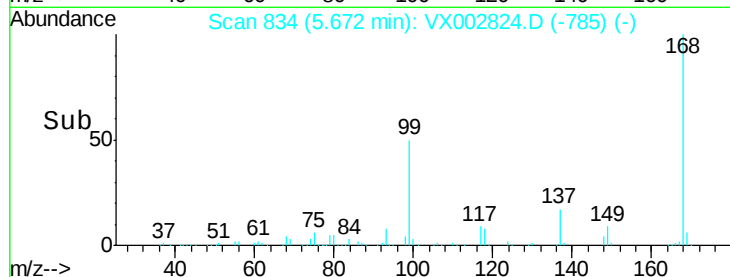
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.31 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002824.D

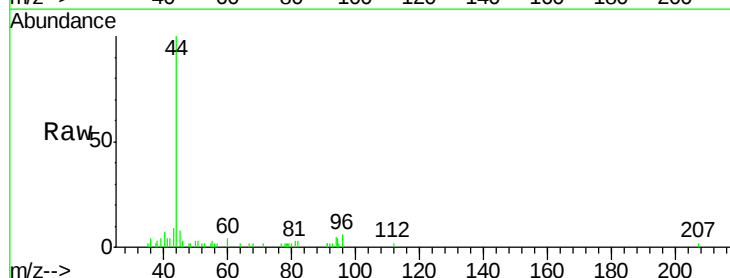
Acq: 22 Jun 2018 07:58

Tgt Ion: 94 Resp: 598

Ion Ratio Lower Upper

94 100

96 75.8 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

300

250

200

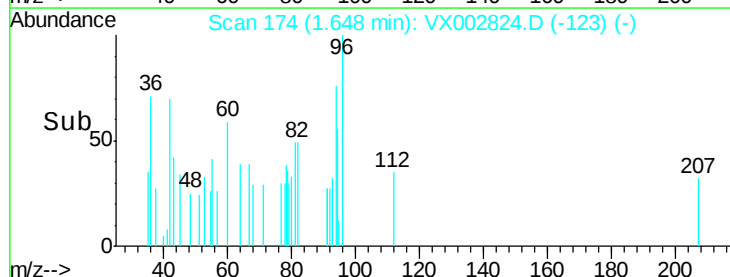
150

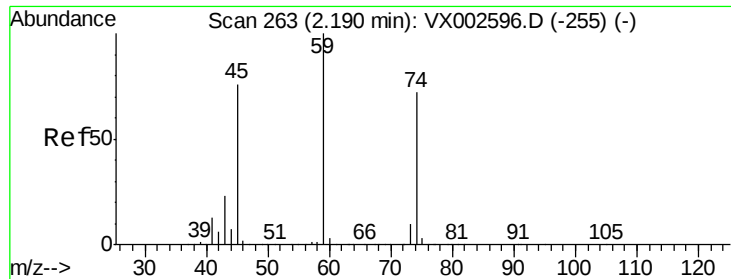
100

50

0

Time--> 1.60 1.65 1.70

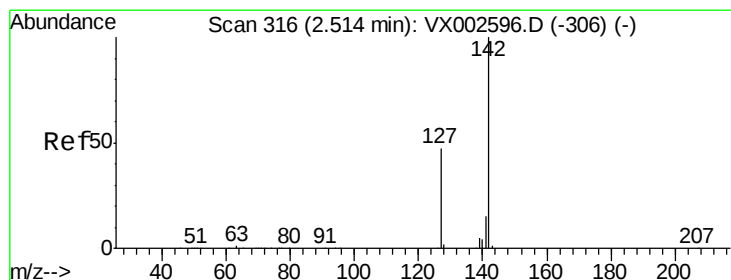
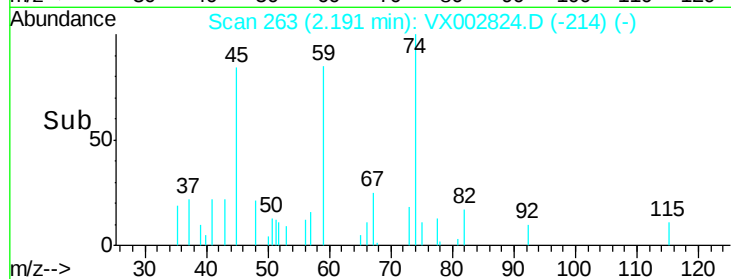
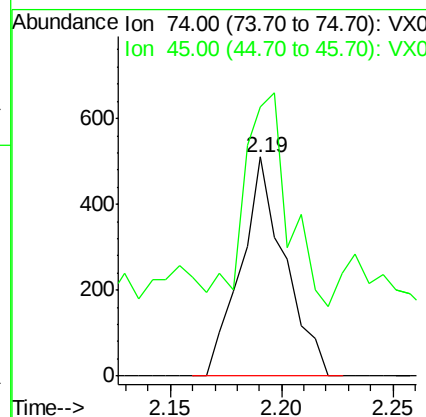
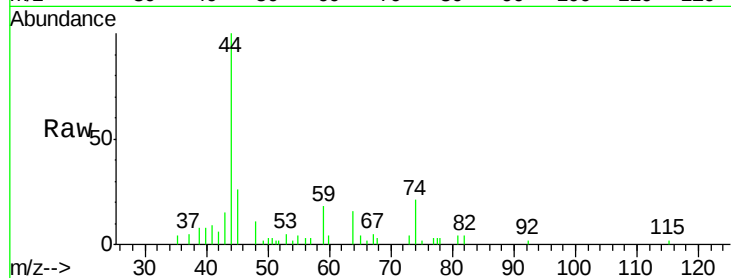




#8
 Diethyl Ether
 Concen: 0.35 ug/l
 RT: 2.19 min Scan# 263
 Delta R.T. 0.00 min
 Lab File: VX002824.D
 Acq: 22 Jun 2018 07:58

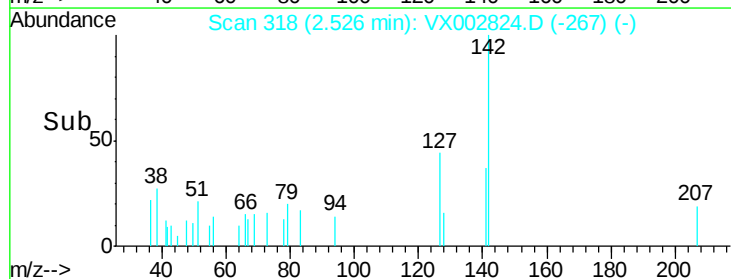
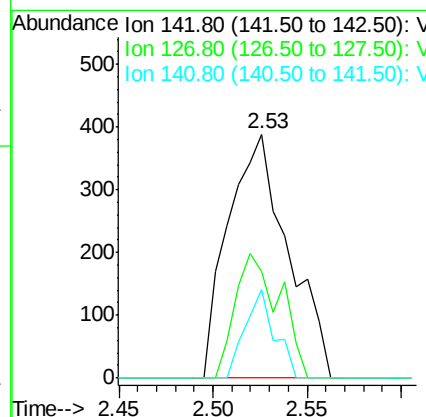
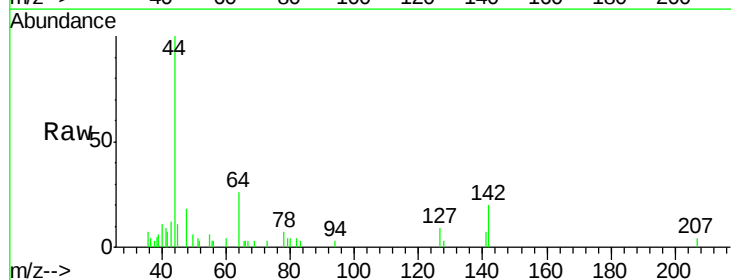
Instrument :
 MSVOA_X
 ClientSampleId :

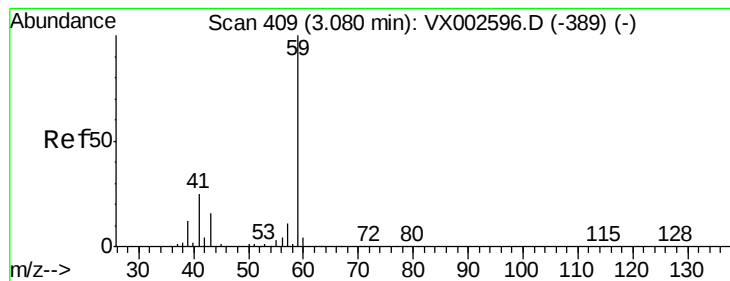
Tot Ion: 74 Resp: 700
 Ion Ratio Lower Upper
 74 100
 45 96.0 53.1 159.4



#10
 Methyl Iodide
 Concen: 5.38 ug/l
 RT: 2.53 min Scan# 318
 Delta R.T. 0.01 min
 Lab File: VX002824.D
 Acq: 22 Jun 2018 07:58

Tgt Ion: 142 Resp: 855
 Ion Ratio Lower Upper
 142 100
 127 37.9 36.6 55.0
 141 17.9 11.3 16.9#



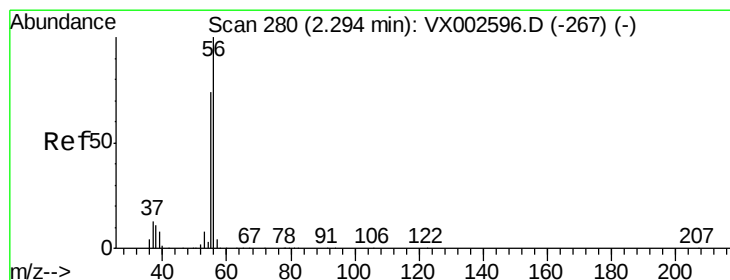
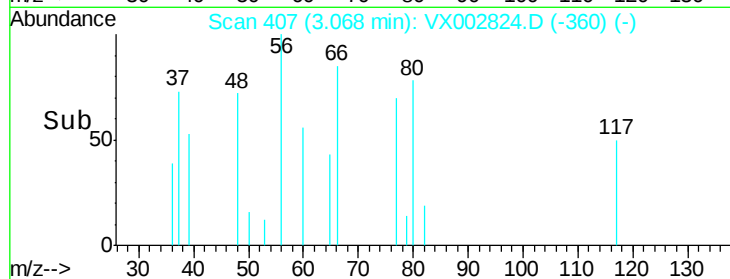
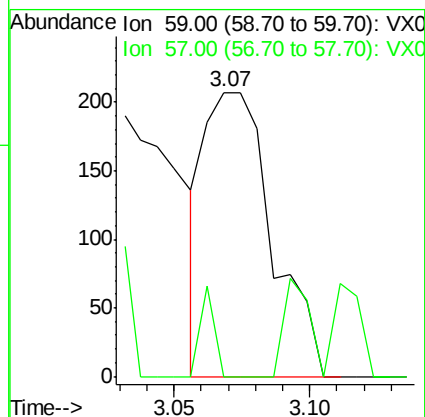
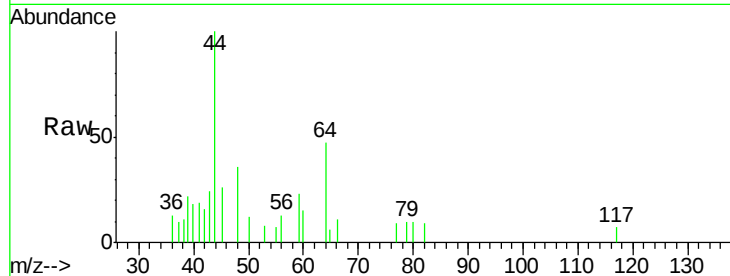


#11

Tert butyl alcohol
 Concen: 0.47 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX002824.D
 Acq: 22 Jun 2018 07:58

Instrument :
 MSVOA_X
 ClientSampled :

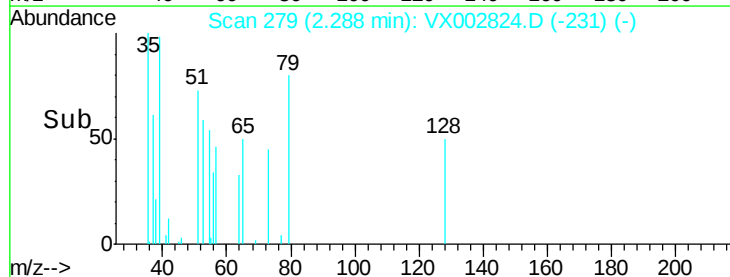
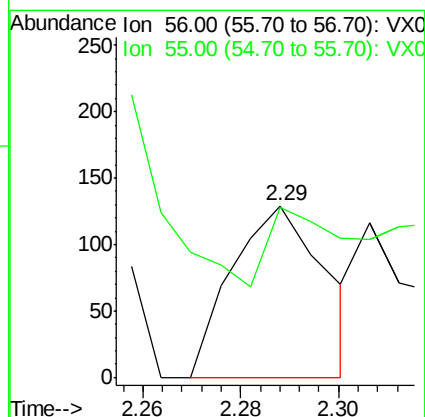
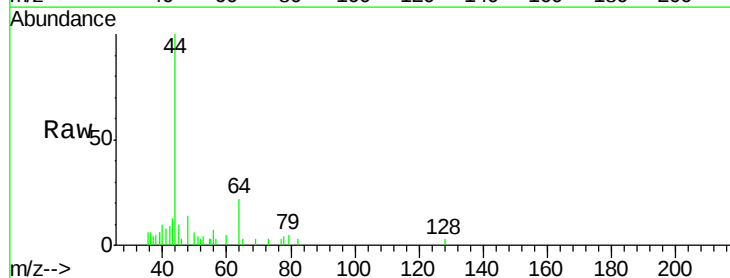
Tot Ion: 59 Resp: 359
 Ion Ratio Lower Upper
 59 100
 57 6.7 8.2 12.2#

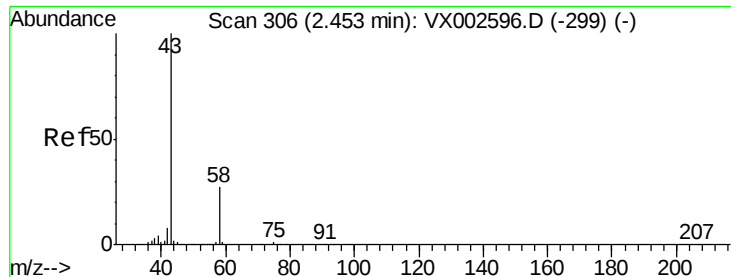


#13

Acrolein
 Concen: 7.32 ug/l
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX002824.D
 Acq: 22 Jun 2018 07:58

Tgt Ion: 56 Resp: 170
 Ion Ratio Lower Upper
 56 100
 55 39.4 57.0 85.4#





#16

Acetone

Concen: 8.12 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

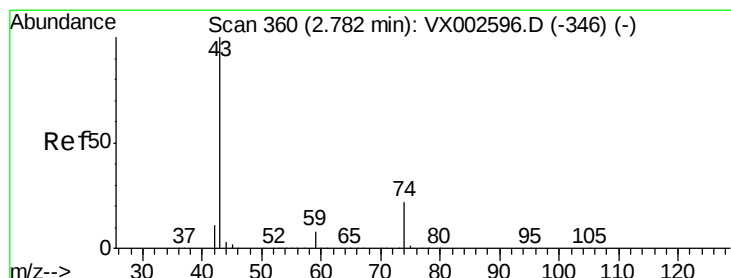
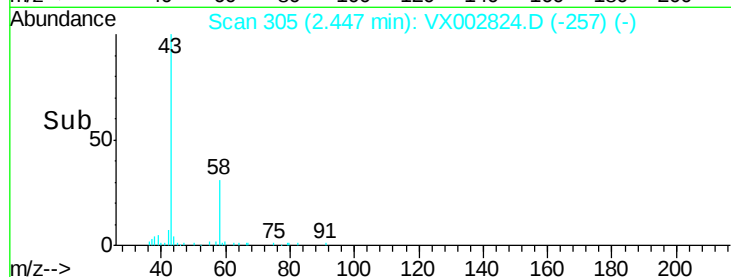
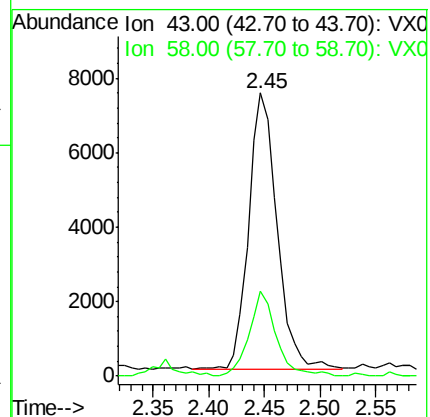
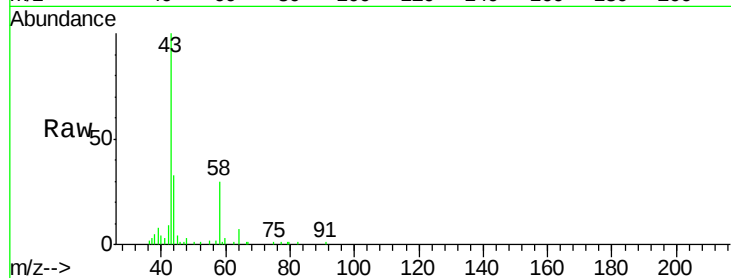
ClientSampleId :

Tot Ion: 43 Resp: 13301

Ion Ratio Lower Upper

43 100

58 30.8 22.1 33.1



#18

Methyl Acetate

Concen: 5.06 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002824.D

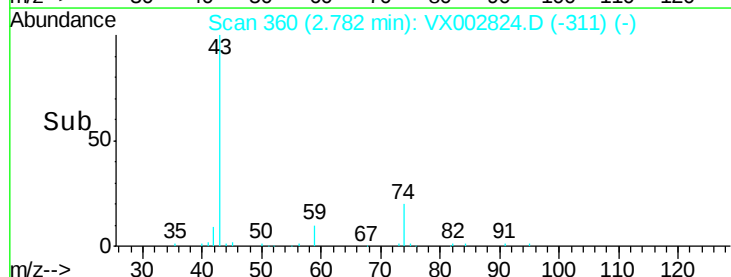
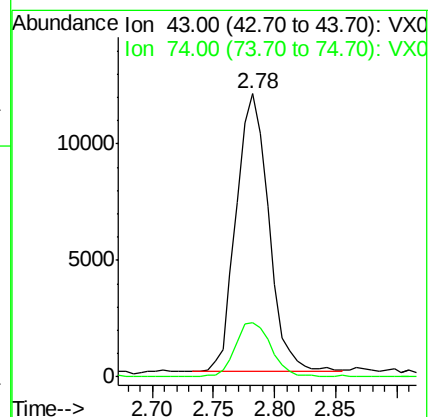
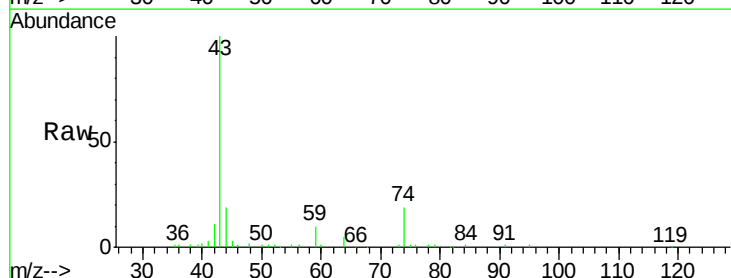
Acq: 22 Jun 2018 07:58

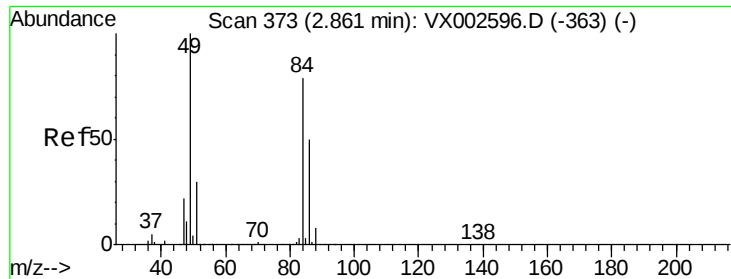
Tgt Ion: 43 Resp: 22081

Ion Ratio Lower Upper

43 100

74 21.7 16.7 25.1



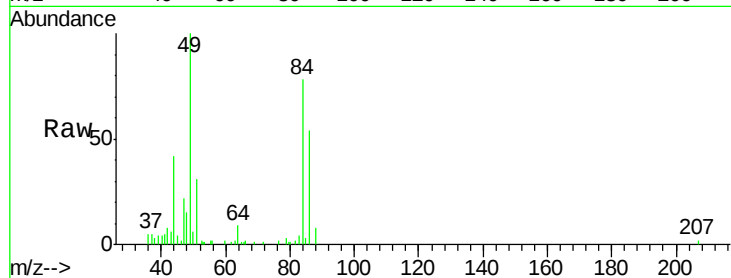


#20
Methvlene Chloride
Concen: 2.02 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 6782

Ion	Ratio	Lower	Upper
84	100		
49	127.4	107.8	161.6
51	37.0	32.8	49.2
86	69.7	52.5	78.7

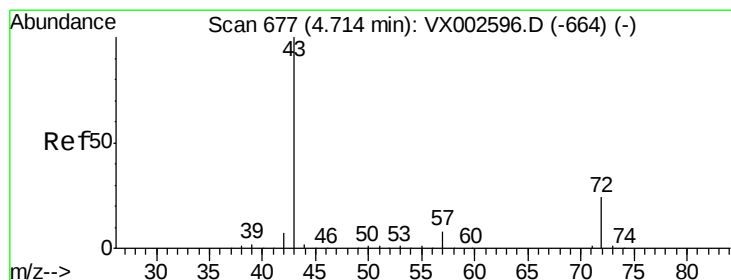
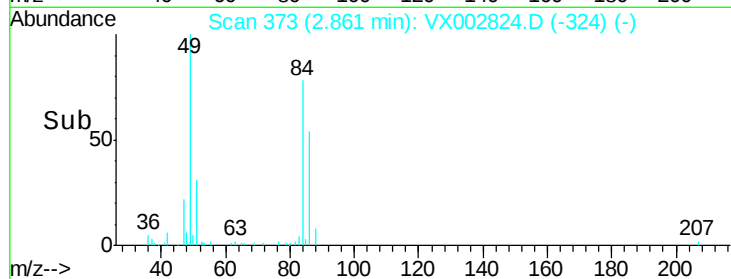
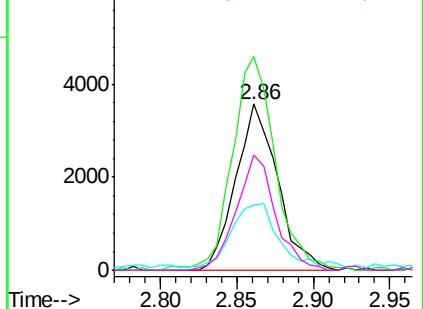


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

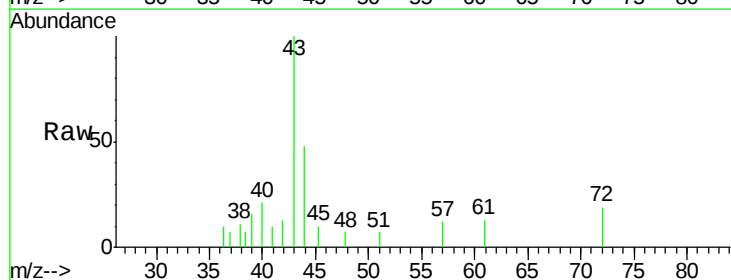
Ion 85.90 (85.60 to 86.60): VX0



#25
2-Butanone
Concen: 0.86 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

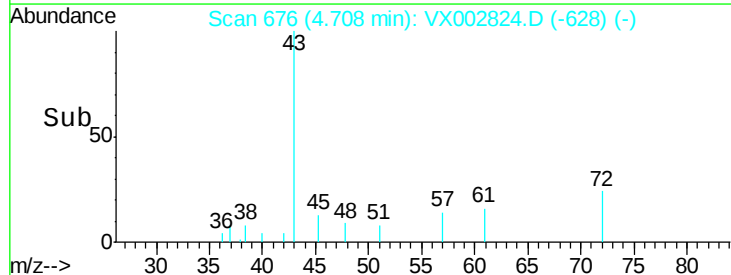
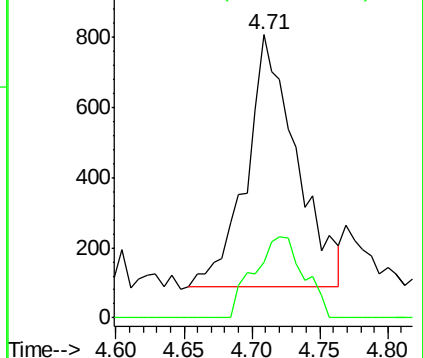
Tgt Ion: 43 Resp: 1853

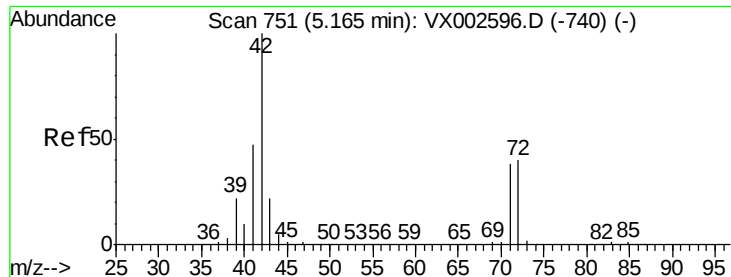
Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.5	27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

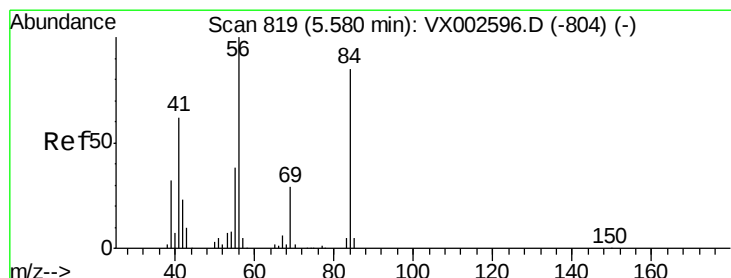
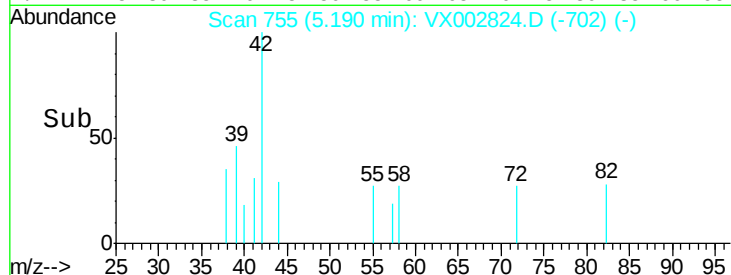
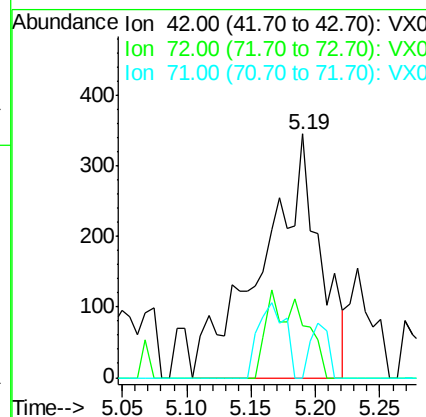
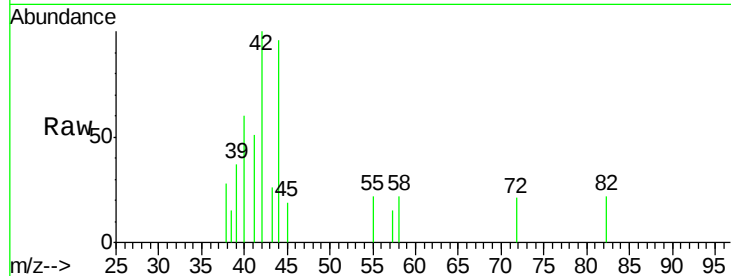




#29
Tetrahydrofuran
Concen: 0.76 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

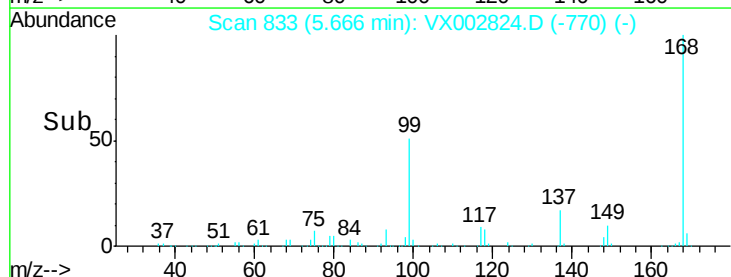
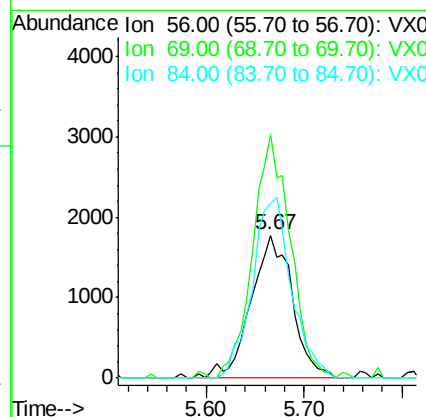
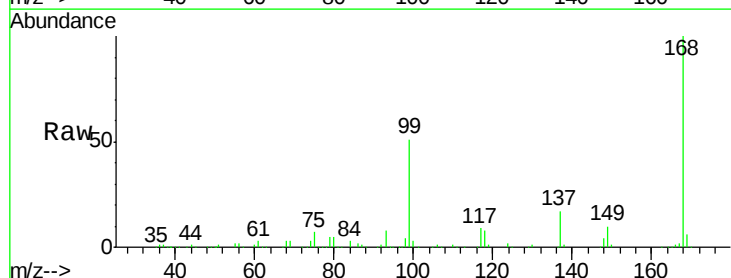
Instrument :
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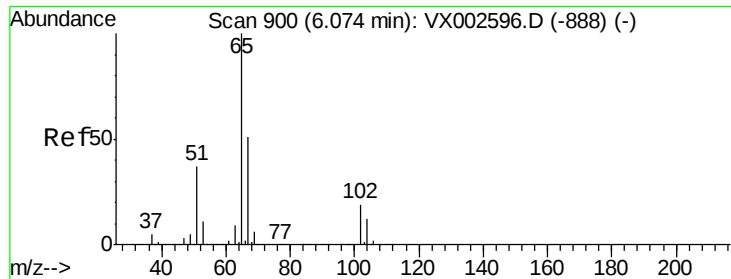
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	6.7	30.1	45.1#



#31
Cyclohexane
Concen: 1.18 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

Tgt Ion	Ratio	Lower	Upper
56	100		
69	170.4	23.7	35.5#
84	122.5	64.1	96.1#





#33

1,2-Dichloroethane-d4

Concen: 45.37 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

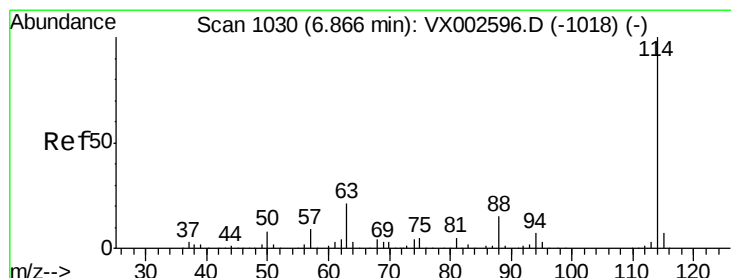
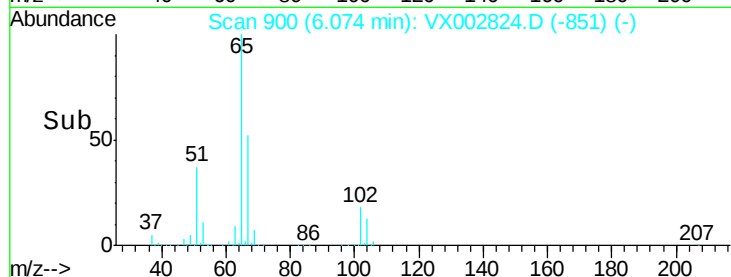
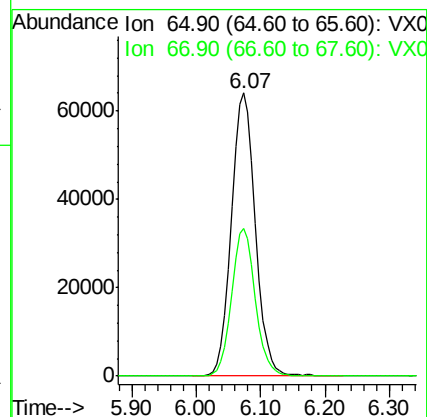
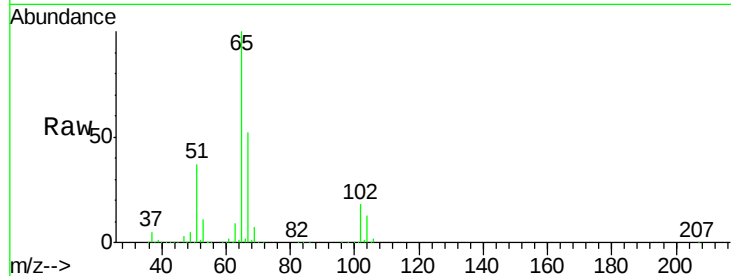
ClientSampleId :

Tot Ion: 65 Resp: 168417

Ion Ratio Lower Upper

65 100

67 51.6 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: VX002824.D

Acq: 22 Jun 2018 07:58

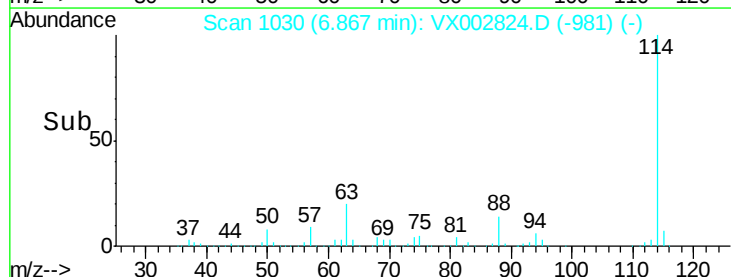
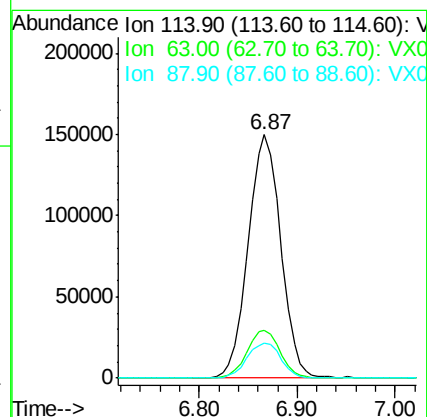
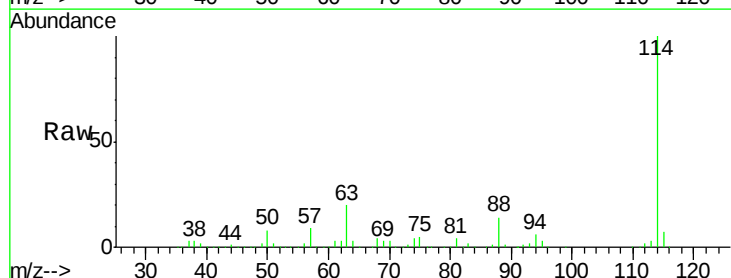
Tgt Ion: 114 Resp: 346853

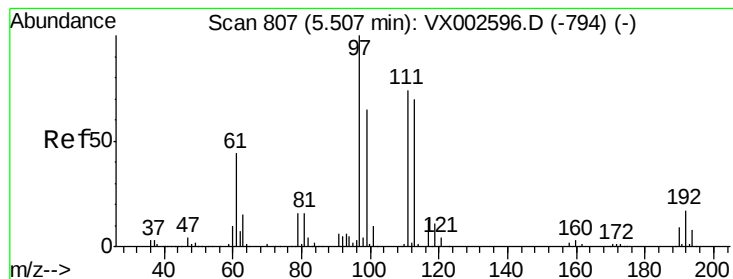
Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

88 14.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.18 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

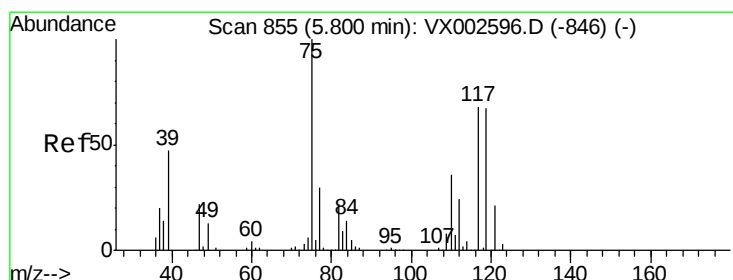
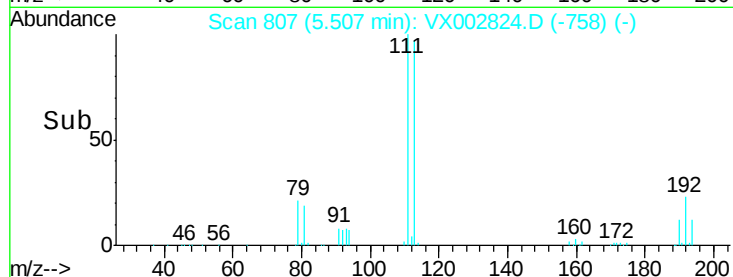
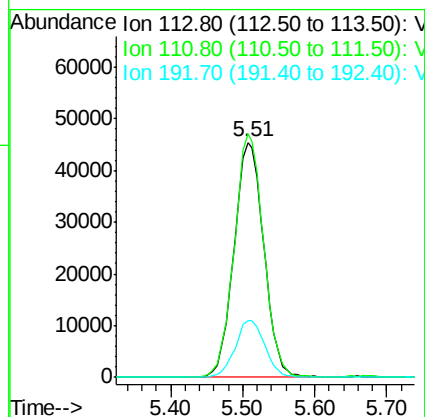
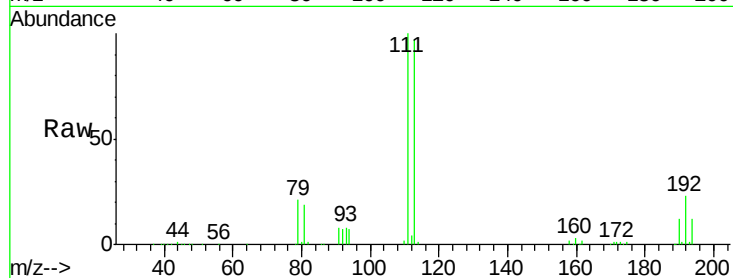
Tot Ion:113 Resp: 130613

Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.0

192 24.1 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.46 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

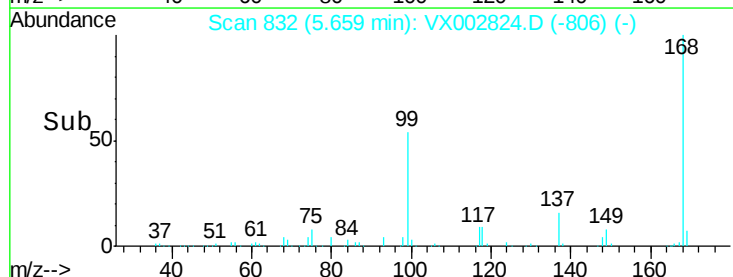
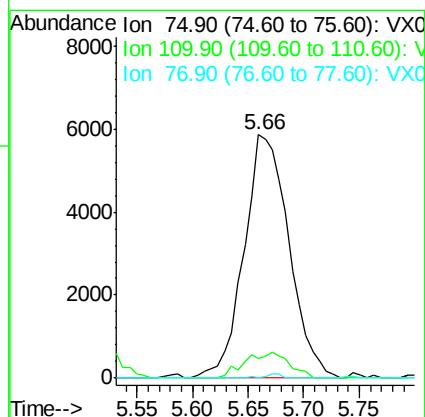
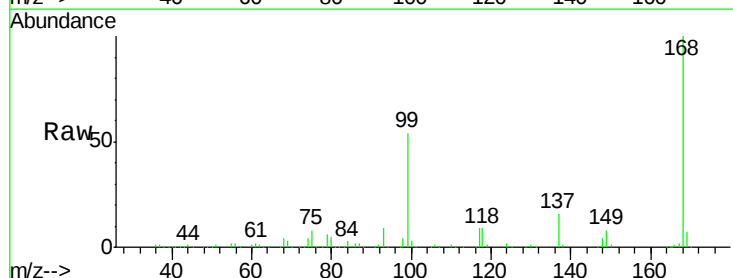
Tgt Ion: 75 Resp: 16444

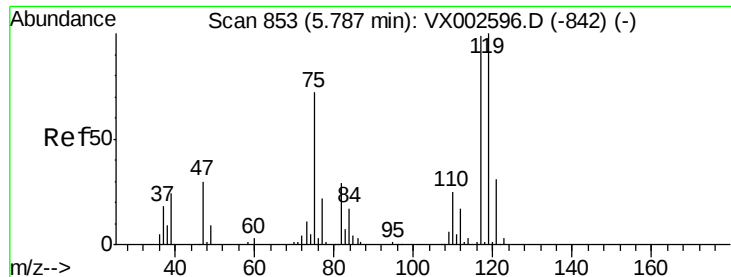
Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

77 0.7 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.18 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

ClientSampled :

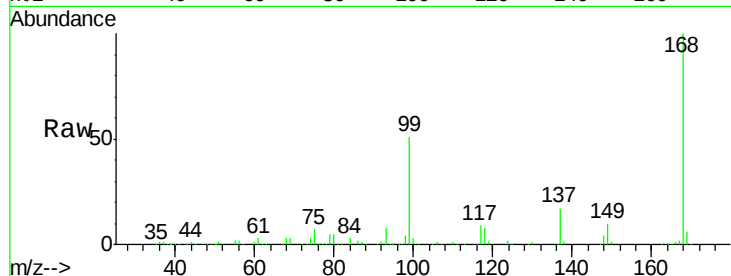
Tot Ion:117 Resp: 22664

Ion Ratio Lower Upper

117 100

119 6.8 77.4 116.0#

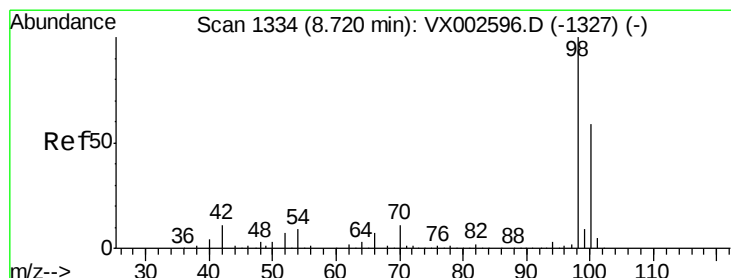
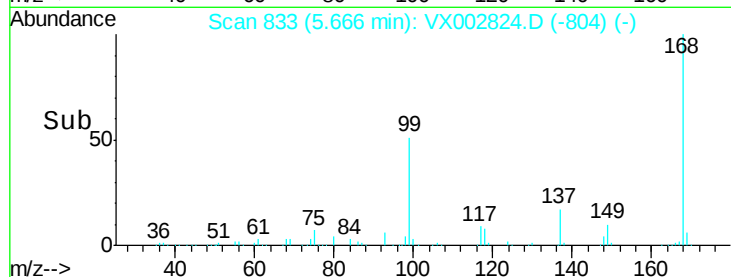
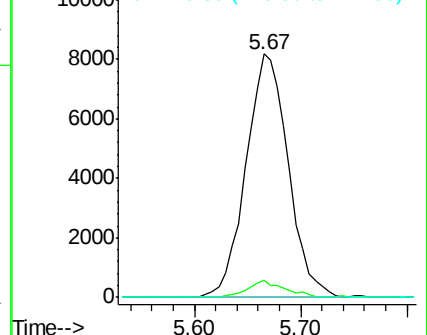
121 0.0 24.4 36.6#



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: 46.48 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002824.D

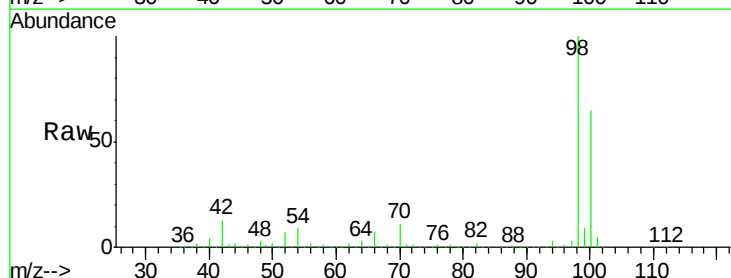
Acq: 22 Jun 2018 07:58

Tgt Ion: 98 Resp: 488592

Ion Ratio Lower Upper

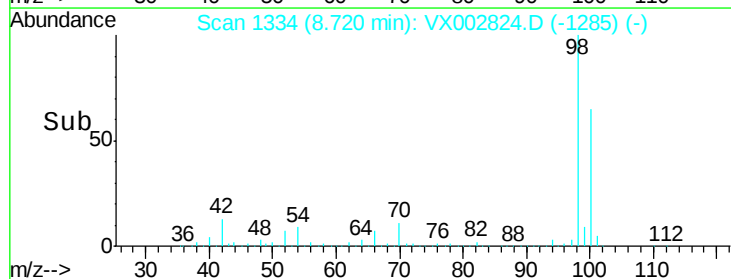
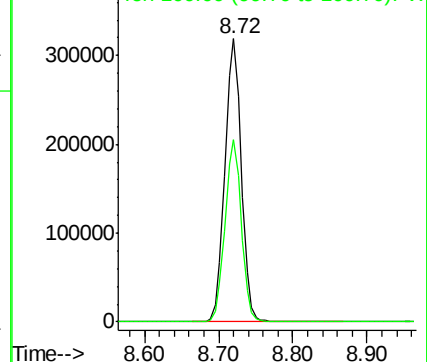
98 100

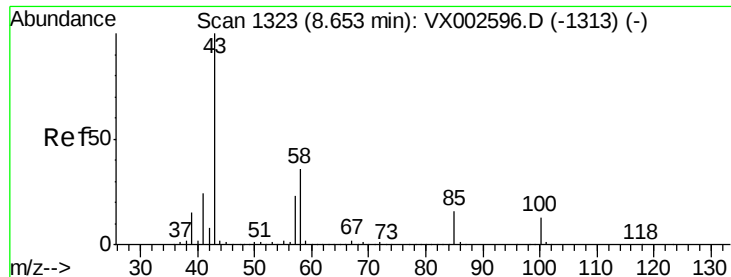
100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

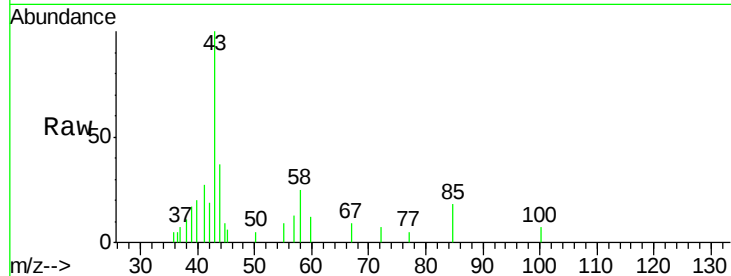
ClientSampleId :

Tot Ion: 43 Resp: 1427

Ion Ratio Lower Upper

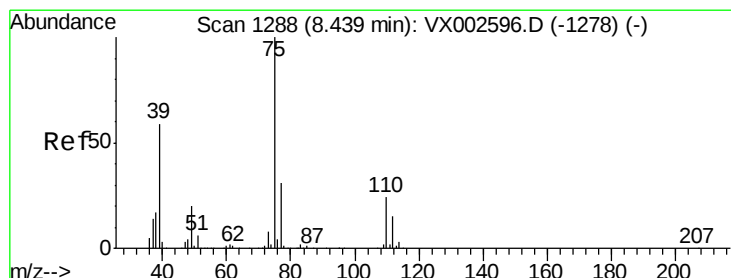
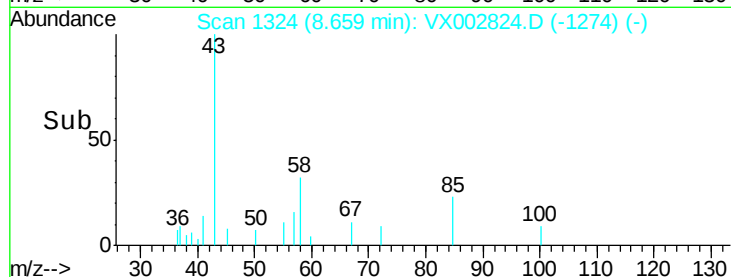
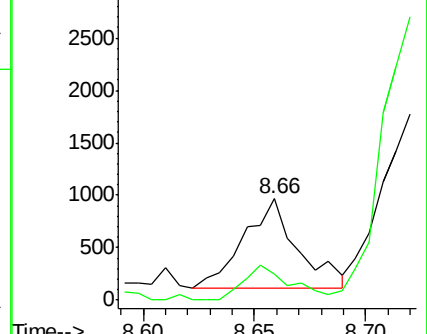
43 100

58 34.1 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: 8.46 min Scan# 1292

Delta R.T. 0.02 min

Lab File: VX002824.D

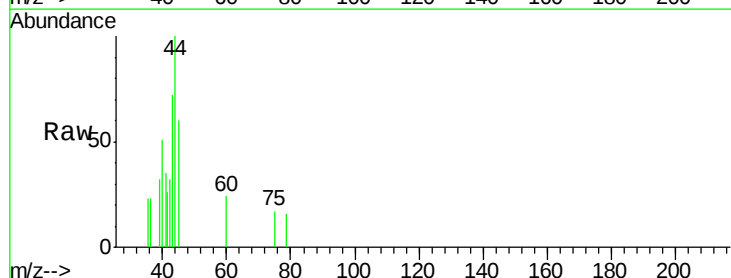
Acq: 22 Jun 2018 07:58

Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

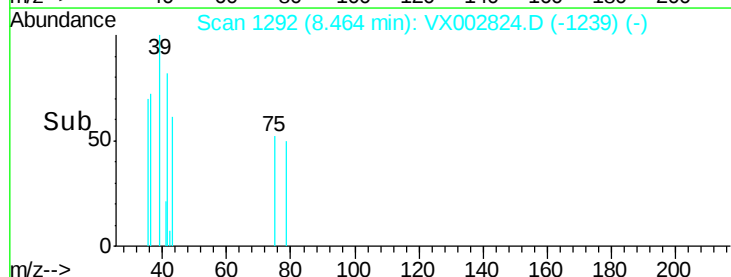
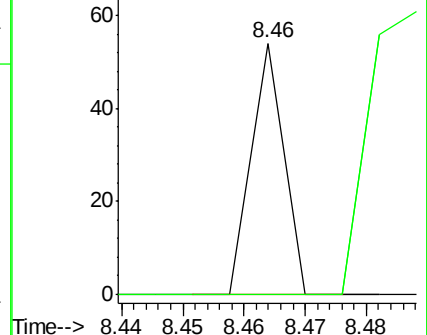
75 100

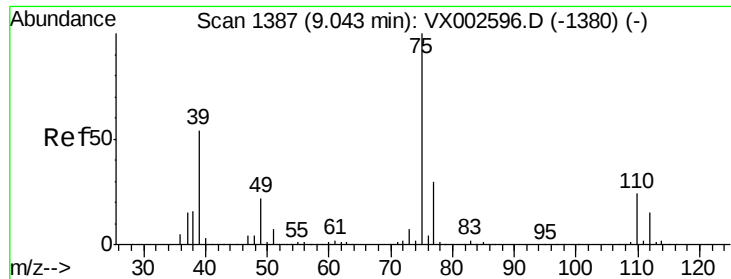
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



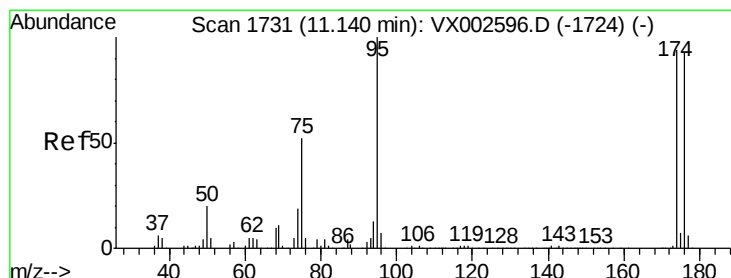
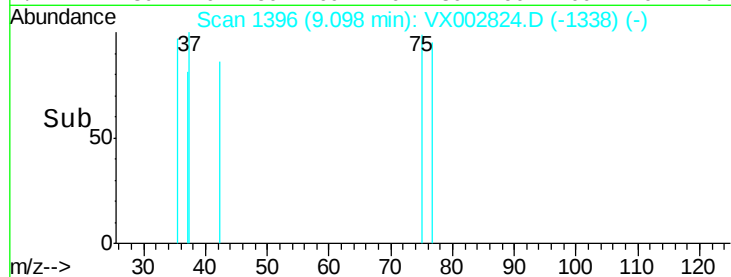
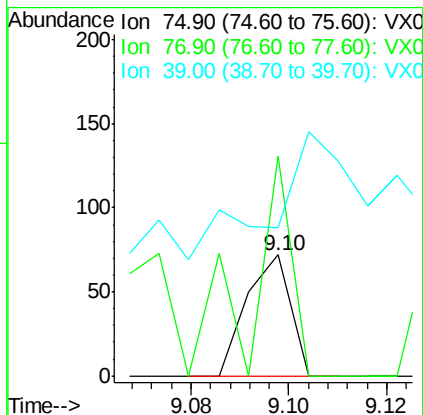
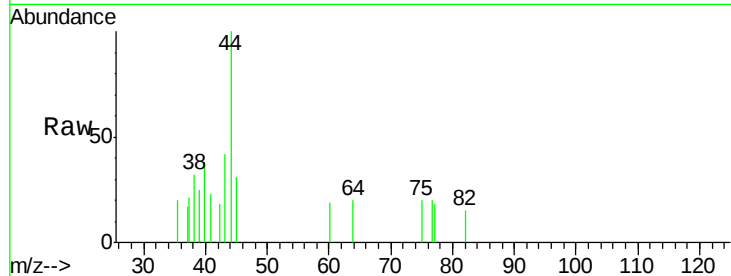


#54

cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.10 min Scan# 1396
Delta R.T. 0.06 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

Instrument :
MSVOA_X
ClientSampled :

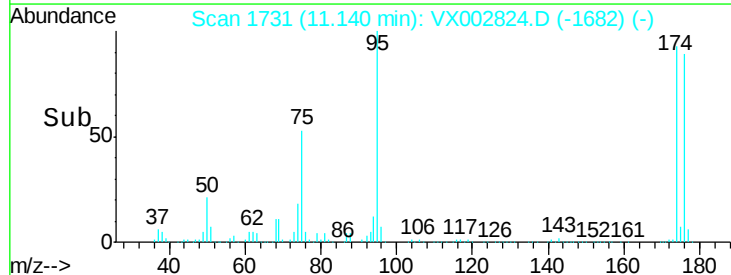
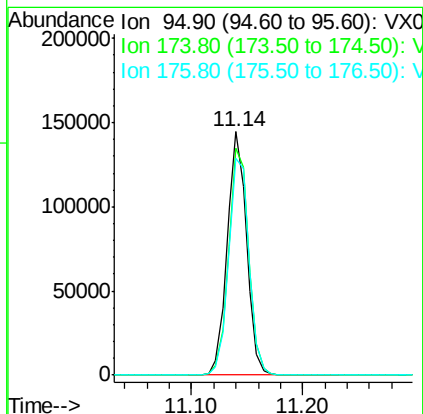
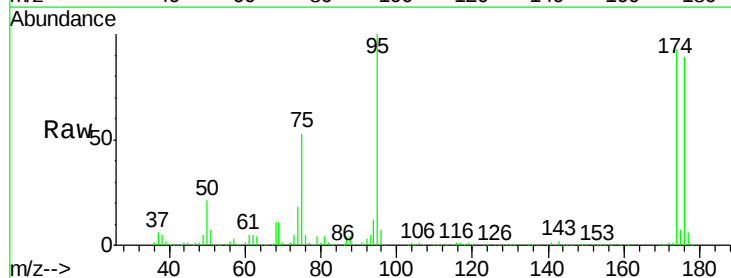
Tot Ion: 75 Resp: 45
Ion Ratio Lower Upper
75 100
77 181.9 24.8 37.2#
39 26.4 42.4 63.6#

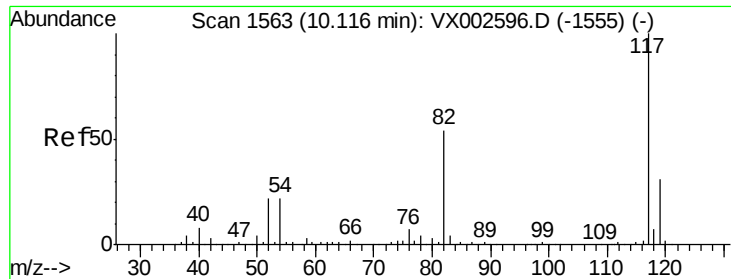


#62

4-Bromofluorobenzene
Concen: 43.54 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

Tgt Ion: 95 Resp: 173435
Ion Ratio Lower Upper
95 100
174 96.3 0.0 187.4
176 93.7 0.0 181.0

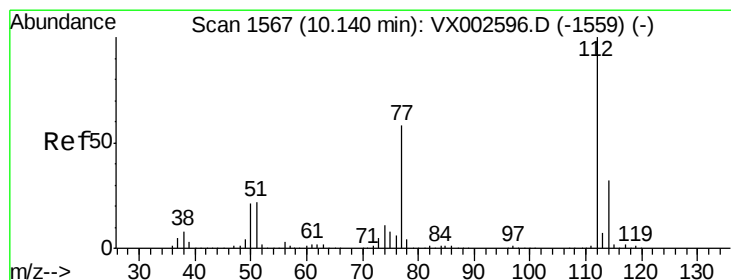
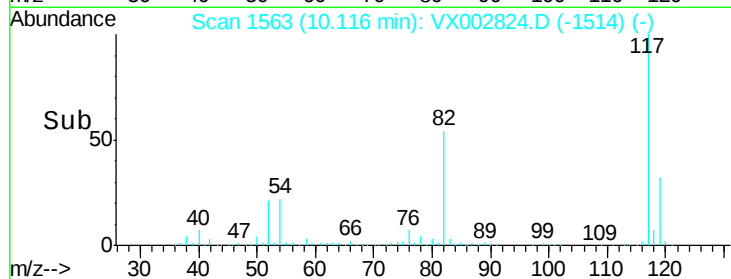
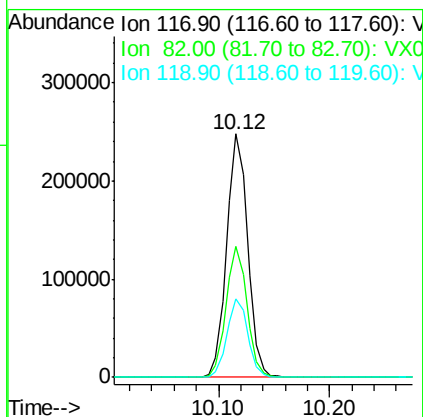
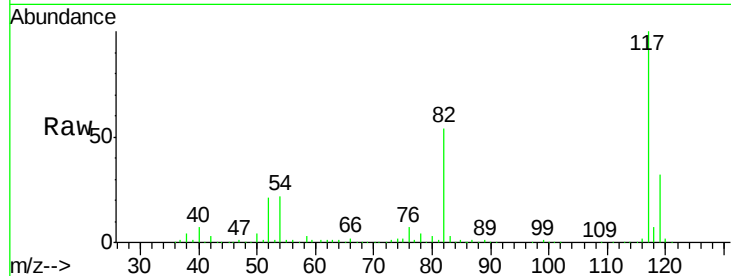




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

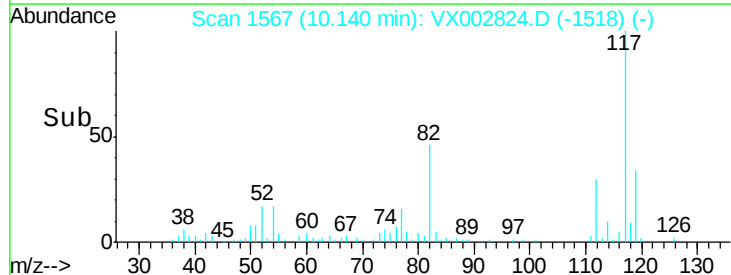
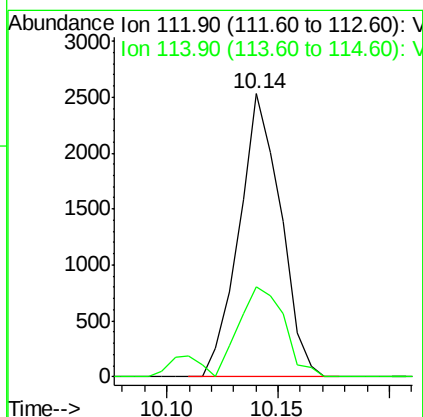
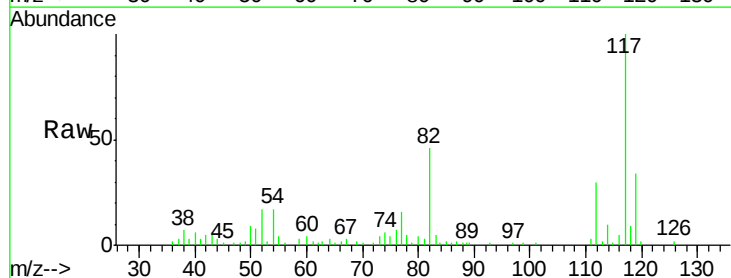
Instrument :
MSVOA_X
ClientSampleId :

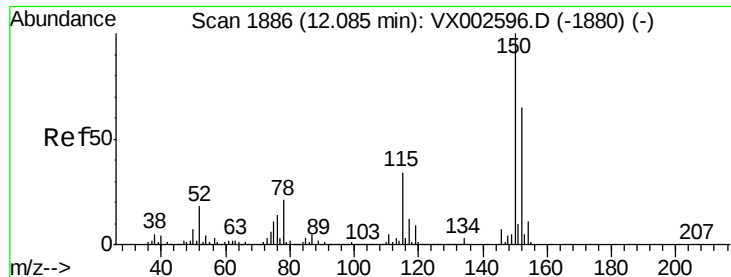
Tot Ion:117 Resp: 323963
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 32.3 25.8 38.6



#65
Chlorobenzene
Concen: 0.41 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002824.D
Acq: 22 Jun 2018 07:58

Tgt Ion:112 Resp: 3292
Ion Ratio Lower Upper
112 100
114 32.0 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: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

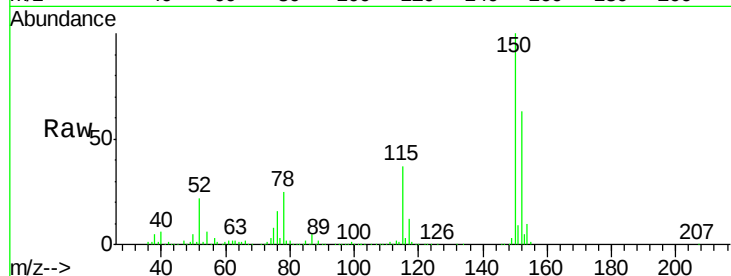
Tot Ion:152 Resp: 182666

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

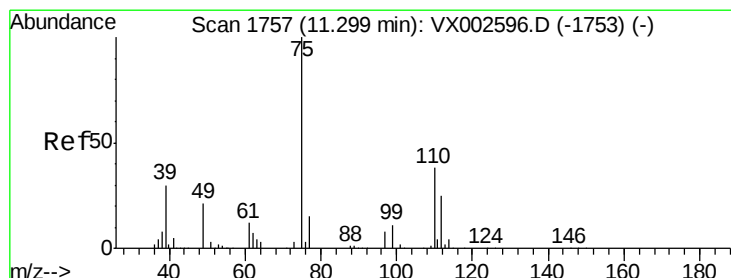
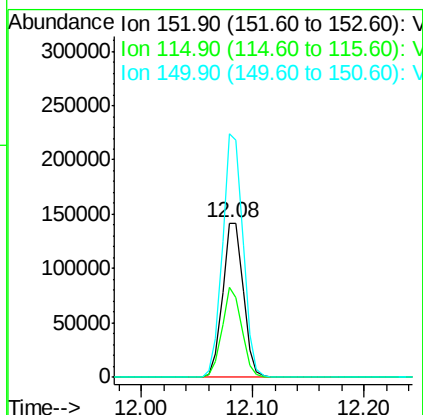
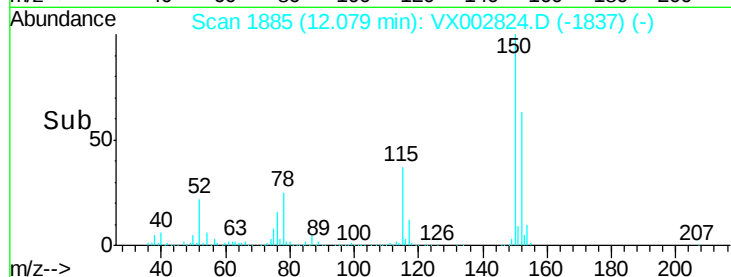
150 156.6 0.0 347.2



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: 26.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002824.D

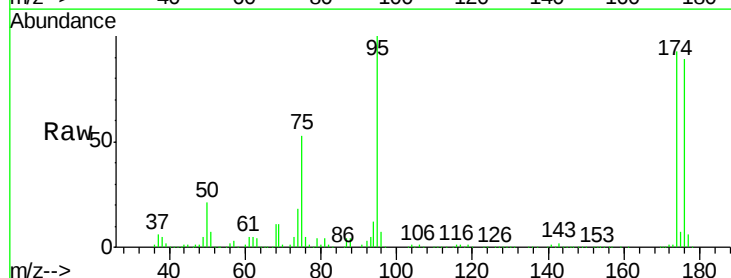
Acq: 22 Jun 2018 07:58

Tgt Ion: 75 Resp: 91850

Ion Ratio Lower Upper

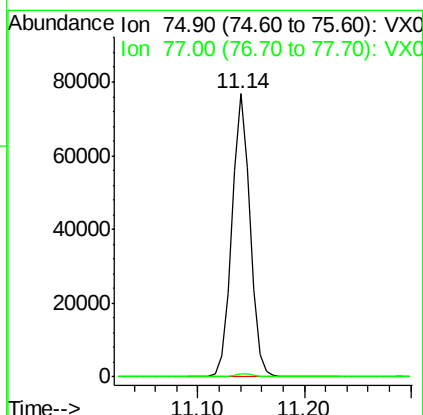
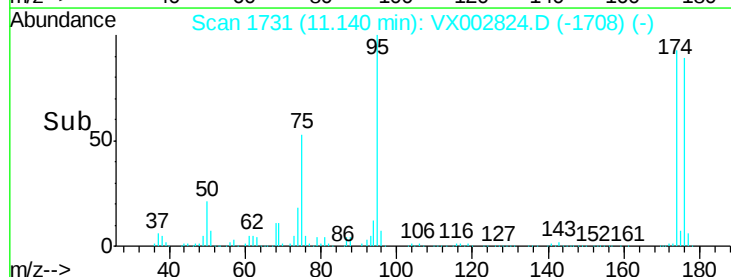
75 100

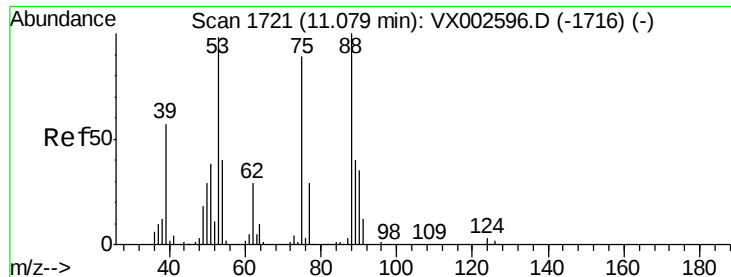
77 1.2 22.8 68.3#



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: 82.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

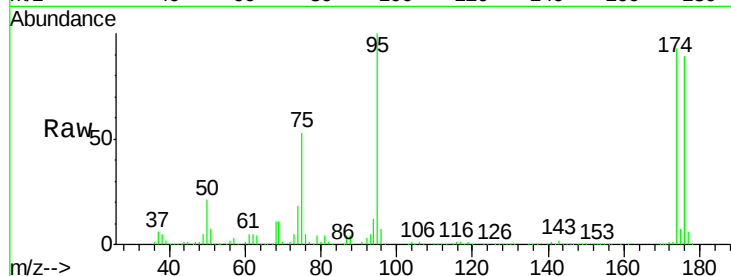
Tot Ion: 75 Resp: 91850

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

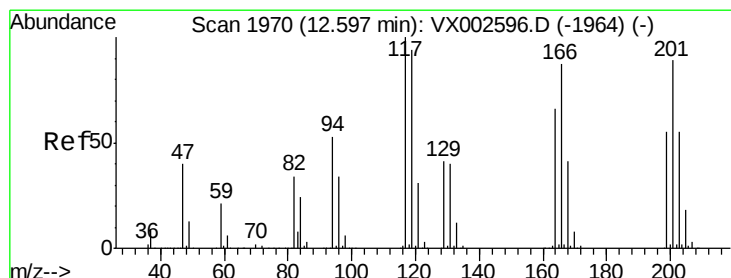
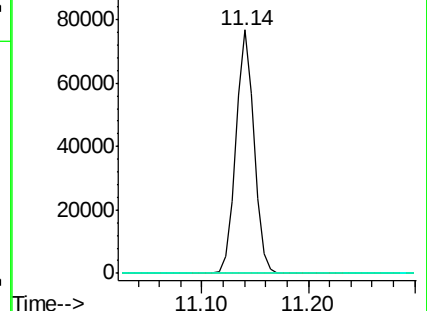
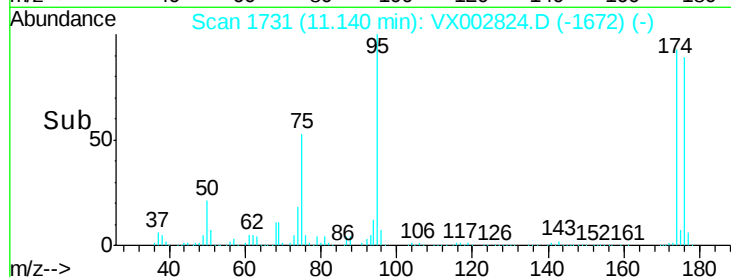
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX002824.D (-1672) (-)

Ion 53.00 (52.70 to 53.70): VX002824.D (-1672) (-)

Ion 88.90 (88.60 to 89.60): VX002824.D (-1672) (-)



#90

Hexachloroethane

Concen: 2.68 ug/l

RT: 12.76 min Scan# 1996

Delta R.T. 0.16 min

Lab File: VX002824.D

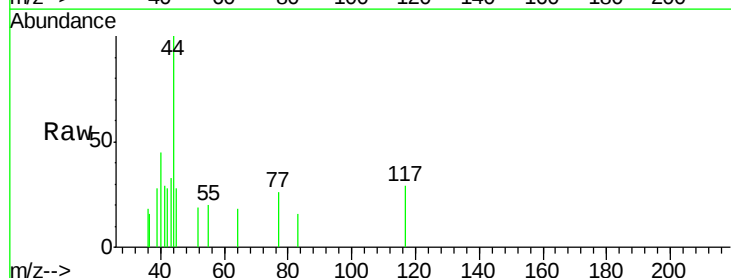
Acq: 22 Jun 2018 07:58

Tgt Ion: 117 Resp: 93

Ion Ratio Lower Upper

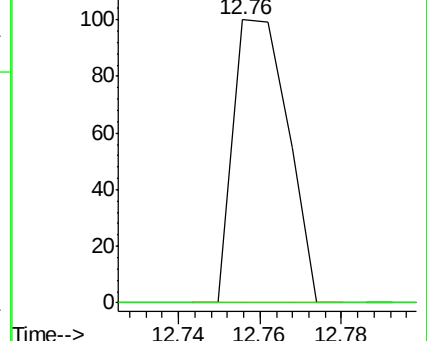
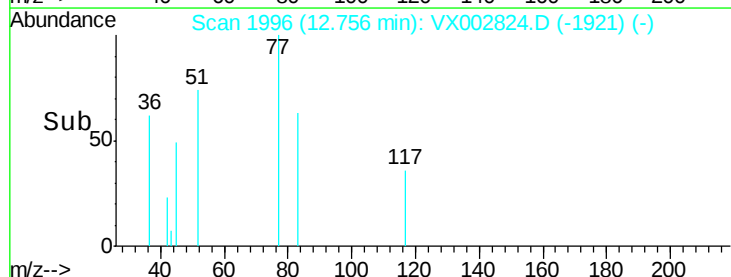
117 100

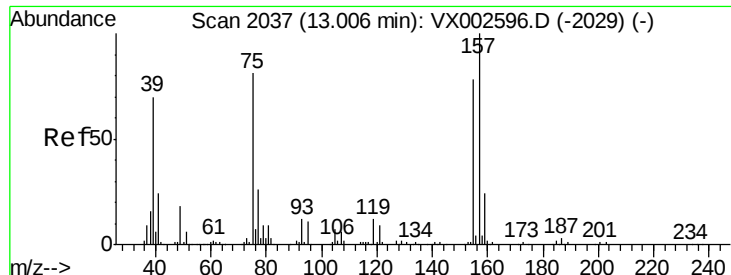
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): VX002824.D (-1921) (-)

Ion 200.70 (200.40 to 201.40): VX002824.D (-1921) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.43 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002824.D

Acq: 22 Jun 2018 07:58

Instrument :

MSVOA_X

ClientSampleId :

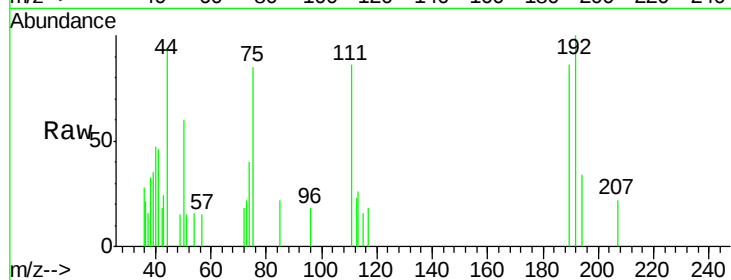
Tot Ion: 75 Resp: 325

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

