

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\
 Data File : VX000930.D
 Acq On : 16 Apr 2018 20:05
 Operator : JC/MD
 Sample : J2308-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 17 02:37:06 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	349058	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	320195	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	201411	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	155796	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
35) Dibromofluoromethane	5.51	113	122201	45.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.88%	
50) Toluene-d8	8.72	98	486513	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
62) 4-Bromofluorobenzene	11.15	95	183758	44.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.72%	

Target Compounds

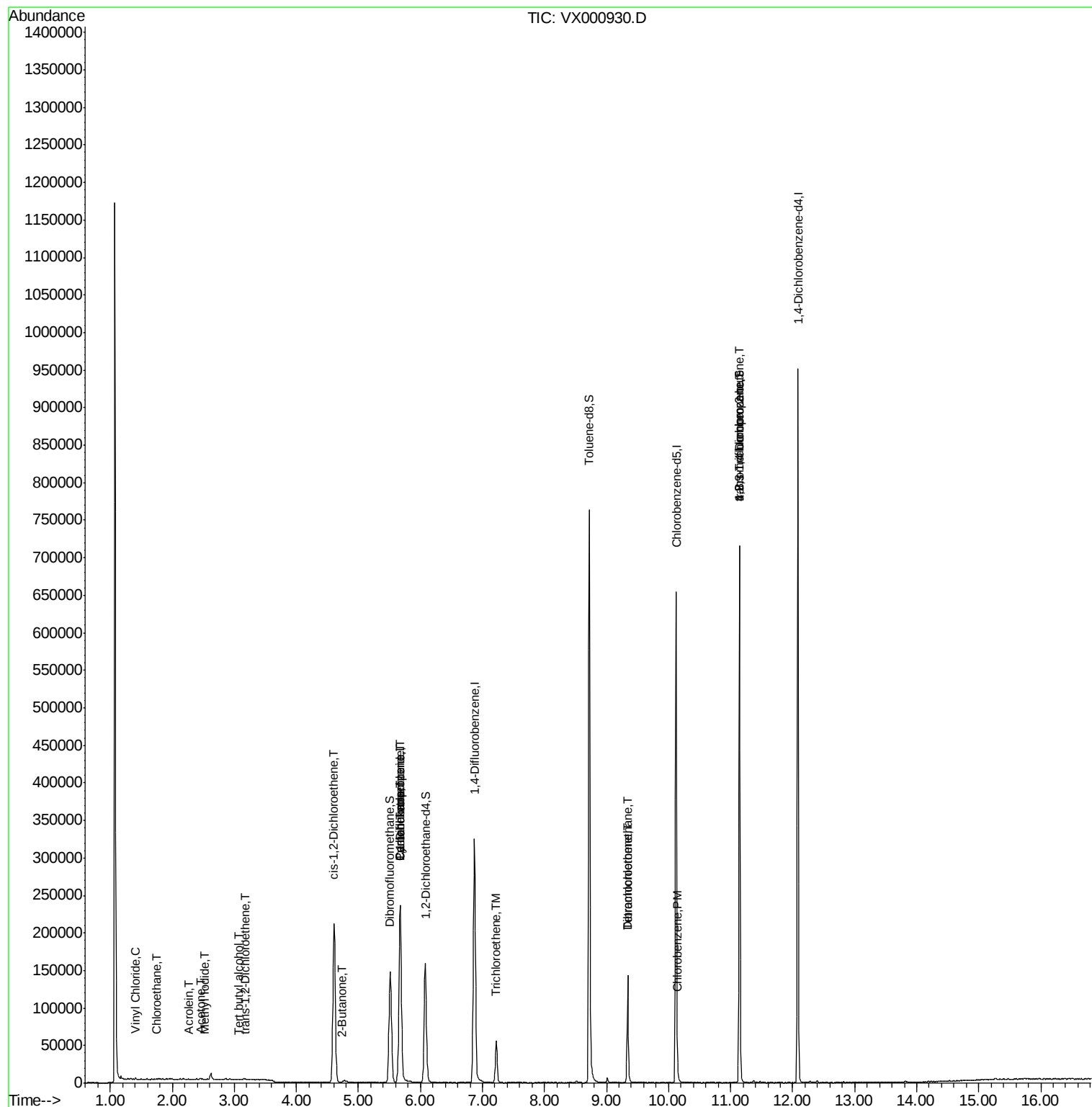
					Qvalue	
4) Vinyl Chloride	1.40	62	1604	0.571	ug/l	95
5) Bromomethane	1.66	94	301	Below Cal	#	77
6) Chloroethane	1.74	64	585	0.344	ug/l #	43
10) Methyl Iodide	2.53	142	67	8.259	ug/l #	88
11) Tert butyl alcohol	3.07	59	566	0.981	ug/l #	88
13) Acrolein	2.27	56	153	0.546	ug/l #	13
16) Acetone	2.45	43	2106	1.878	ug/l #	81
21) trans-1,2-Dichloroethene	3.18	96	544	0.208	ug/l #	73
25) 2-Butanone	4.72	43	700	0.378	ug/l #	50
27) cis-1,2-Dichloroethene	4.61	96	139420	47.077	ug/l	88
31) Cyclohexane	5.67	56	4416	1.030	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15722	4.090	ug/l #	48
38) Carbon Tetrachloride	5.67	117	21202	4.928	ug/l #	15
44) Trichloroethene	7.22	130	22595	6.802	ug/l	96
60) Dibromochloromethane	9.34	129	26478	7.866	ug/l #	11
64) Tetrachloroethene	9.34	164	30457	9.728	ug/l	98
65) Chlorobenzene	10.15	112	2270	0.282	ug/l #	76
76) 1,2,3-Trichloropropane	11.14	75	91857	26.445	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	91857	72.744	ug/l #	11

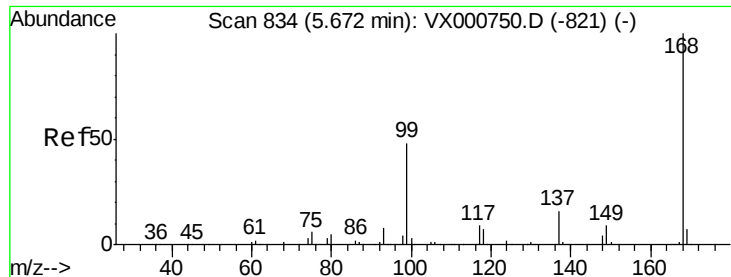
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

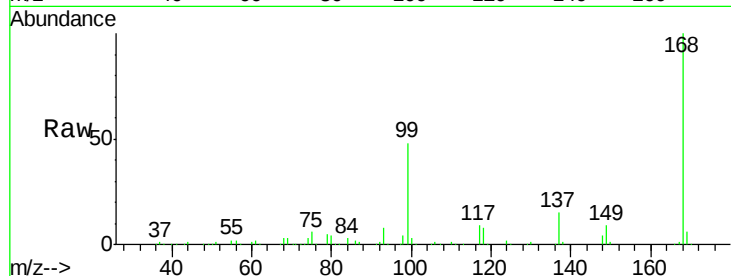
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 257844

Ion Ratio Lower Upper

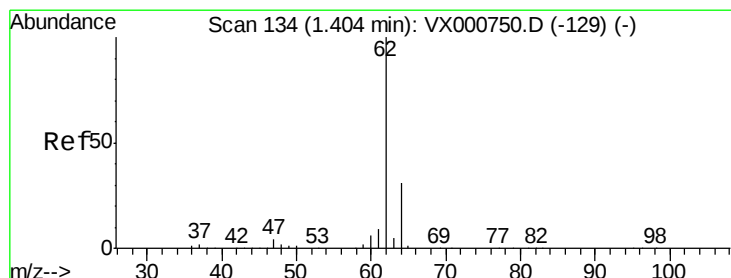
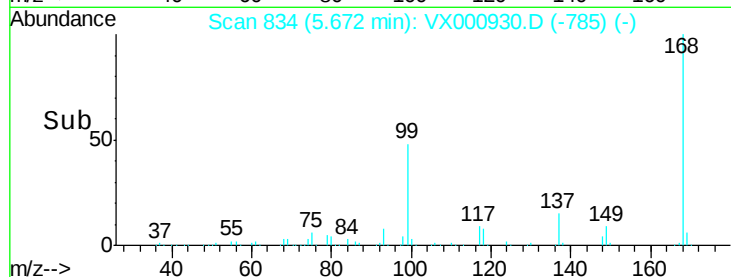
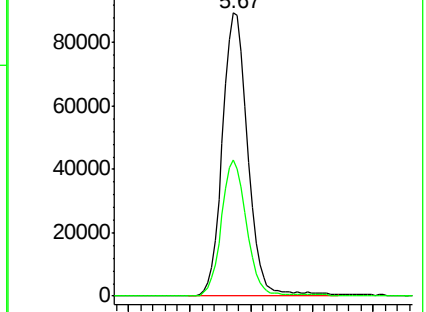
168 100

99 48.2 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.571 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX000930.D

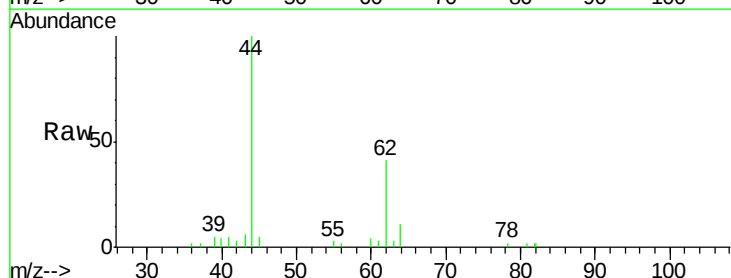
Acq: 16 Apr 2018 20:05

Tgt Ion: 62 Resp: 1604

Ion Ratio Lower Upper

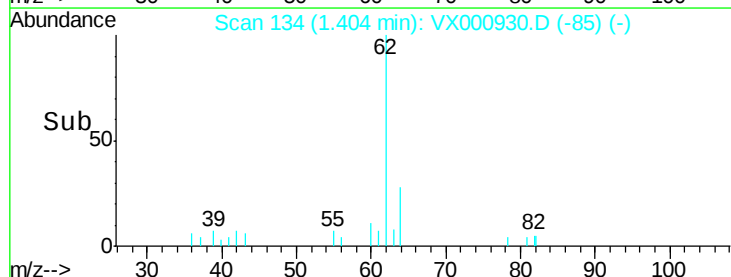
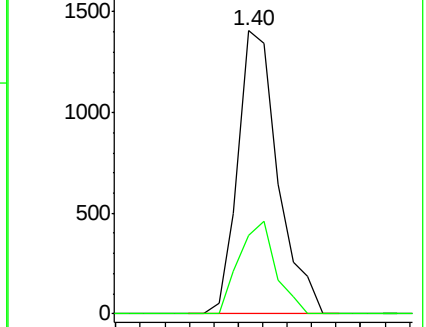
62 100

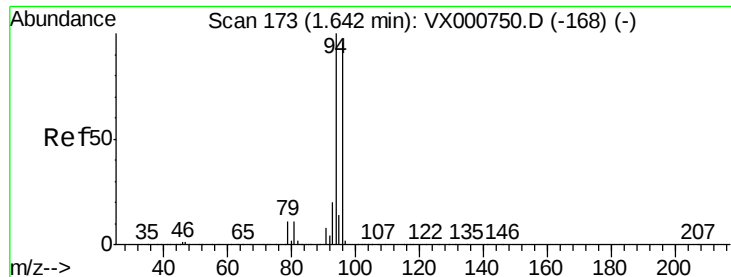
64 27.7 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

Instrument :

MSVOA_X

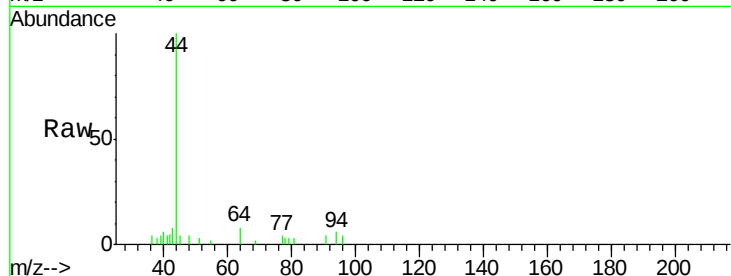
ClientSampleId :

Tot Ion: 94 Resp: 301

Ion Ratio Lower Upper

94 100

96 74.2 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

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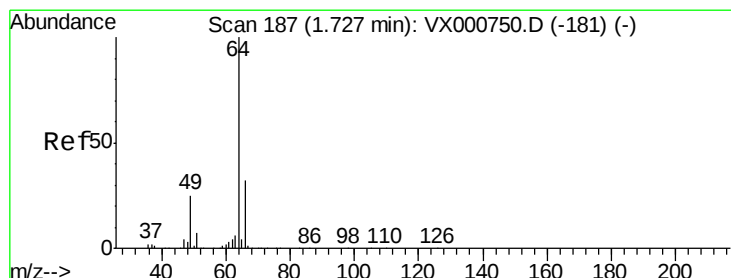
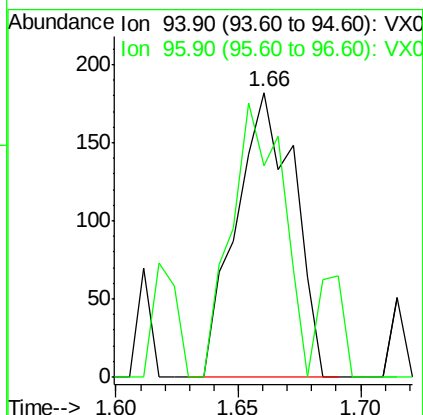
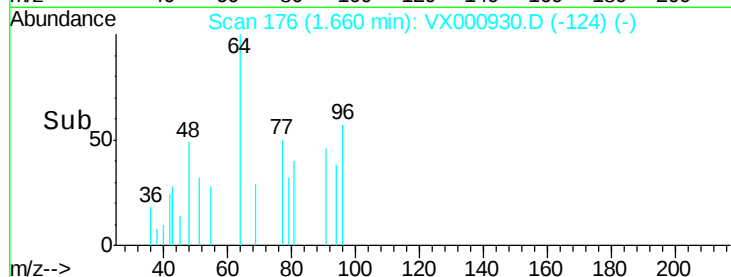
1.66

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#6

Chloroethane

Concen: 0.344 ug/l

RT: 1.74 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX000930.D

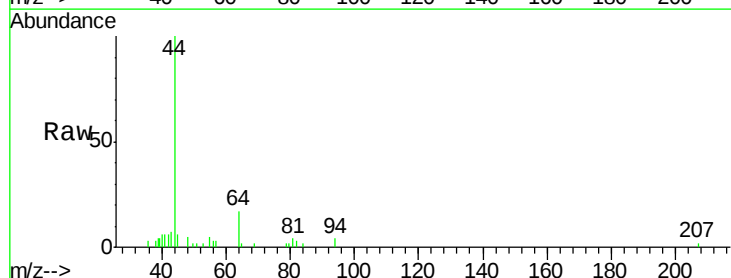
Acq: 16 Apr 2018 20:05

Tgt Ion: 64 Resp: 585

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

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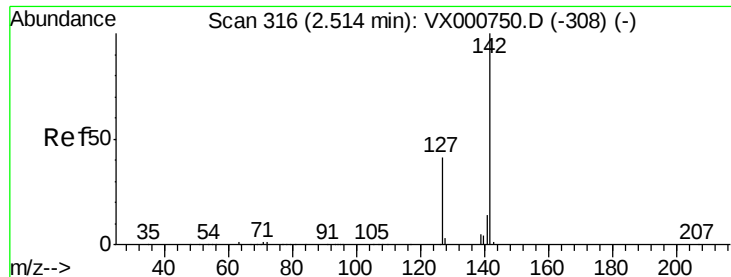
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#10

Methyl Iodide

Concen: 8.259 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX000930.D

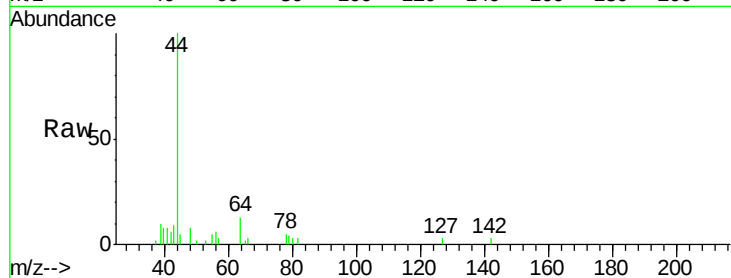
Acq: 16 Apr 2018 20:05

Instrument :

MSVOA_X

ClientSampled :

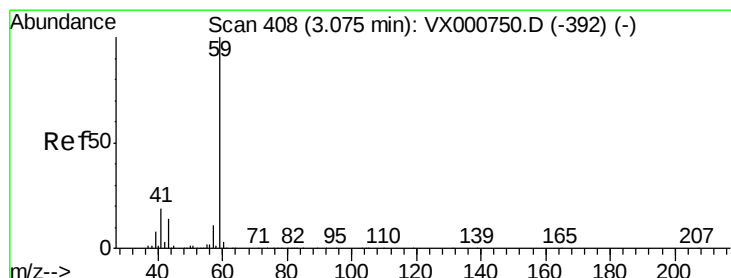
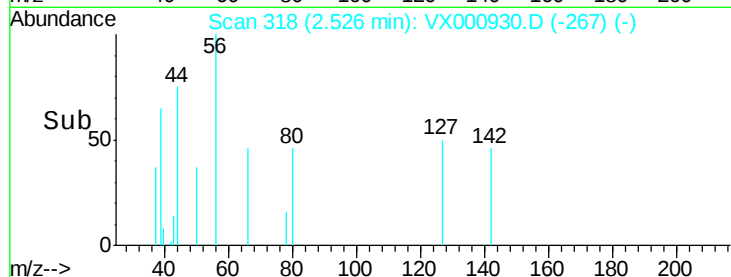
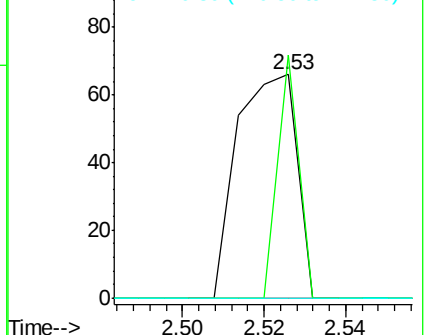
Tot Ion:142	Resp:	67
Ion	Ratio	Lower Upper
142	100	
127	38.8	32.6 49.0
141	0.0	11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.981 ug/l

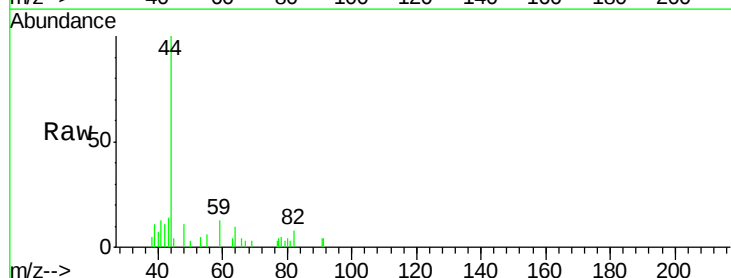
RT: 3.07 min Scan# 408

Delta R.T. -0.00 min

Lab File: VX000930.D

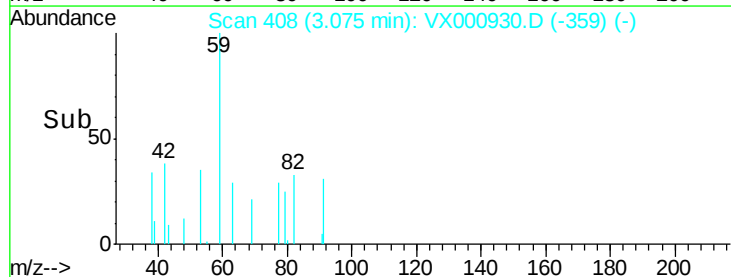
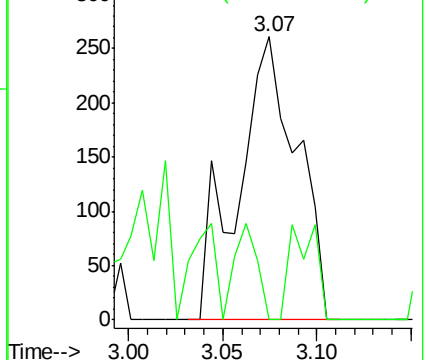
Acq: 16 Apr 2018 20:05

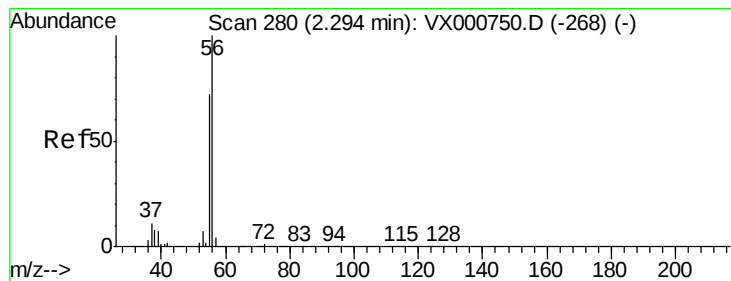
Tgt Ion: 59	Resp:	566
Ion	Ratio	Lower Upper
59	100	
57	15.0	8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.546 ug/l

RT: 2.27 min Scan# 276

Delta R.T. -0.02 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

Instrument :

MSVOA_X

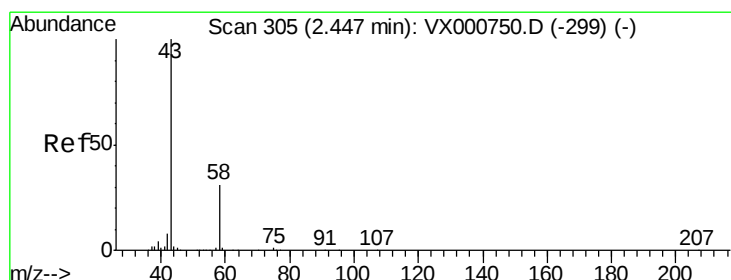
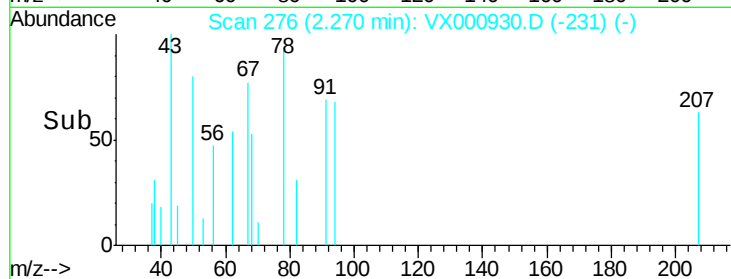
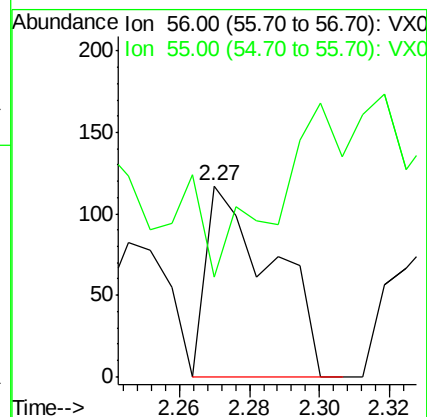
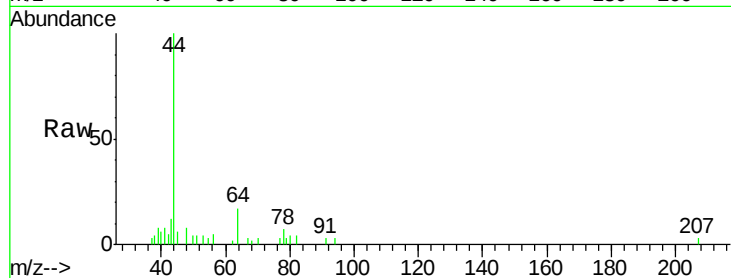
ClientSampleId :

Tot Ion: 56 Resp: 153

Ion Ratio Lower Upper

56 100

55 0.0 58.7 88.1#



#16

Acetone

Concen: 1.878 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000930.D

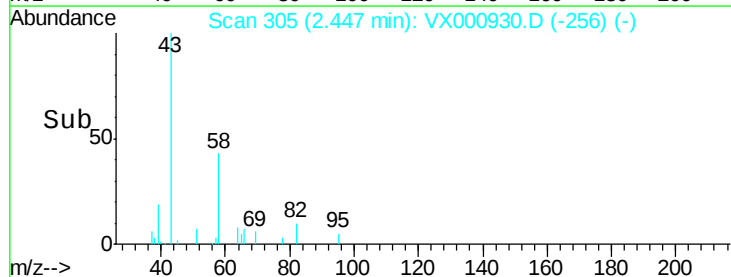
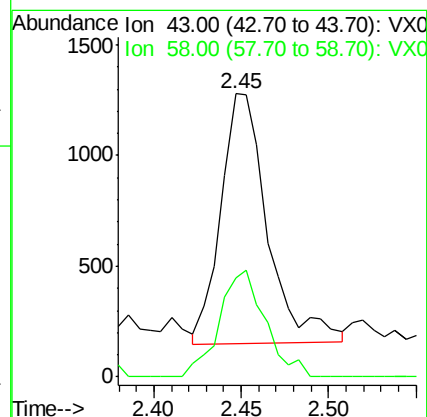
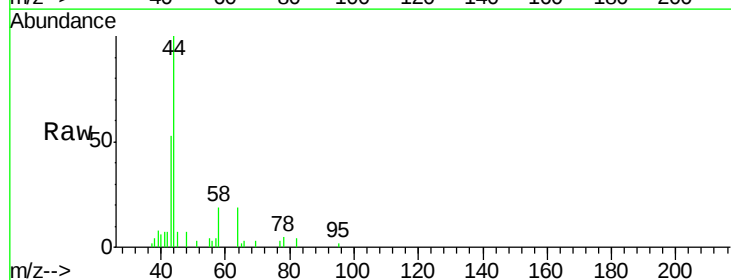
Acq: 16 Apr 2018 20:05

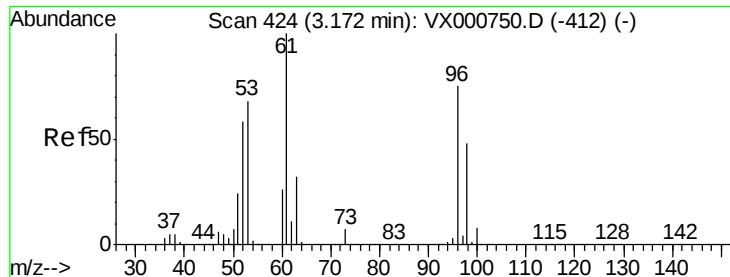
Tgt Ion: 43 Resp: 2106

Ion Ratio Lower Upper

43 100

58 41.1 24.6 37.0#





#21

trans-1,2-Dichloroethene

Concen: 0.208 ug/l

RT: 3.18 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

Instrument :

MSVOA_X

ClientSampled :

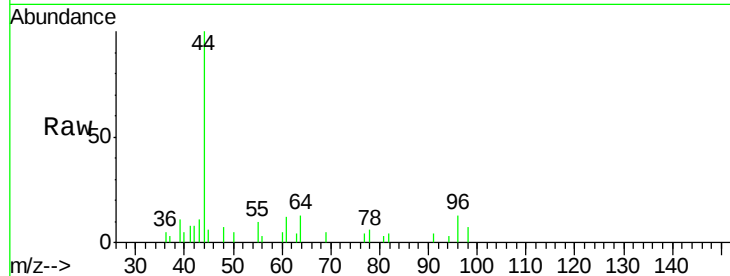
Tot Ion: 96 Resp: 544

Ion Ratio Lower Upper

96 100

61 94.0 106.2 159.2#

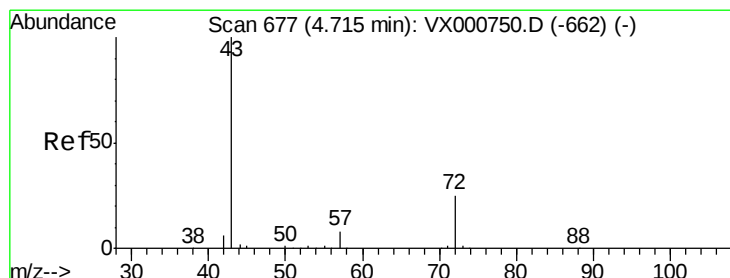
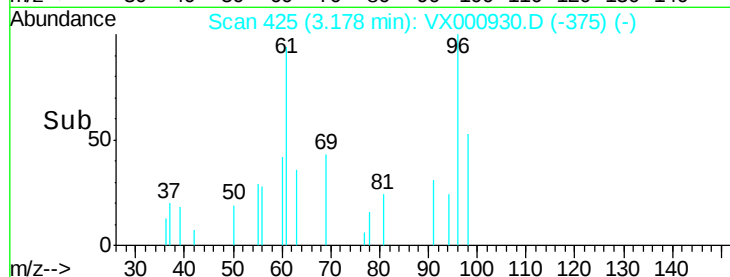
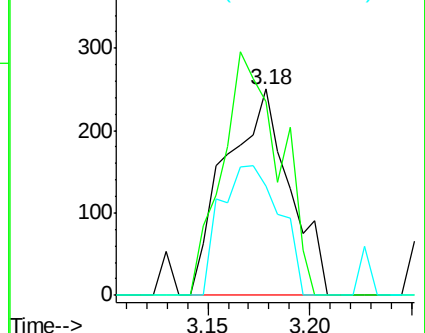
98 53.2 51.2 76.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.378 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000930.D

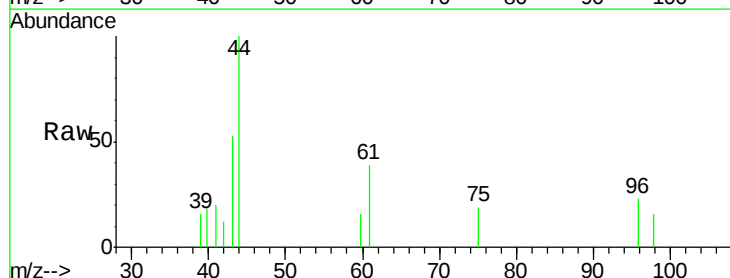
Acq: 16 Apr 2018 20:05

Tgt Ion: 43 Resp: 700

Ion Ratio Lower Upper

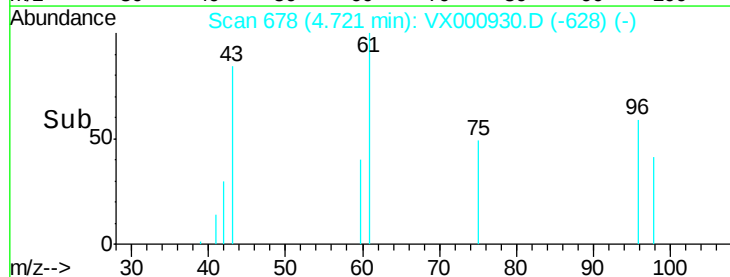
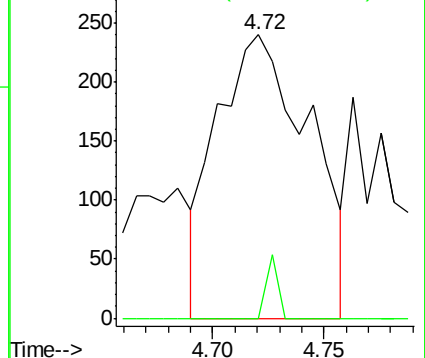
43 100

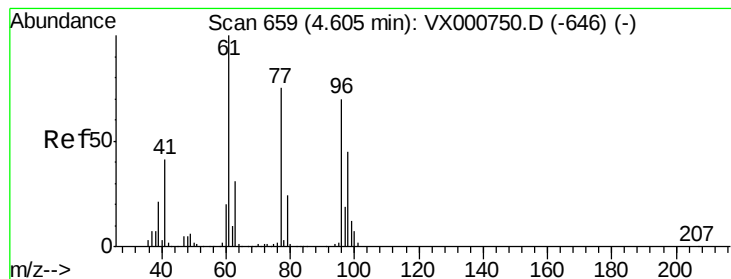
72 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



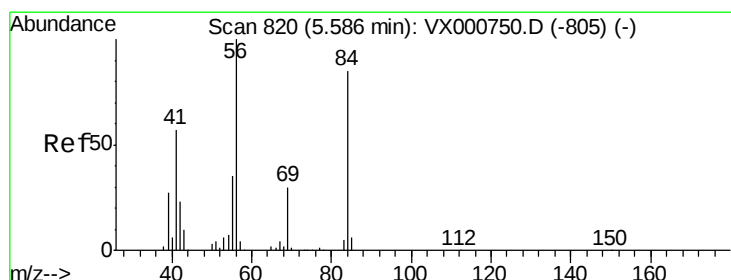
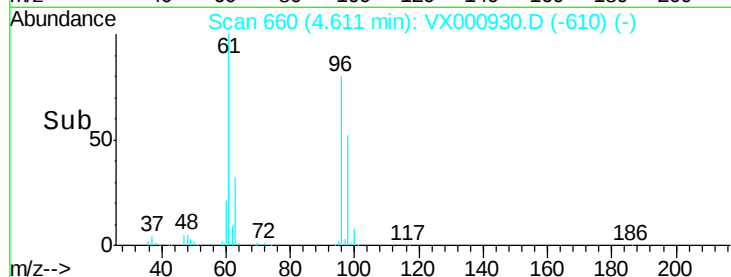
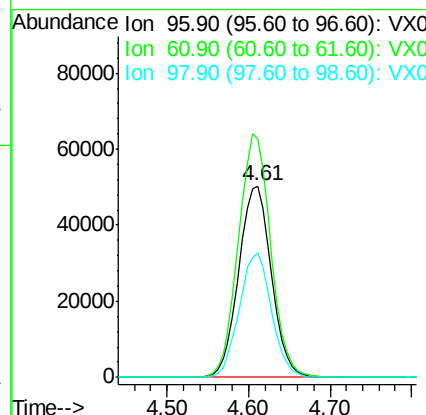
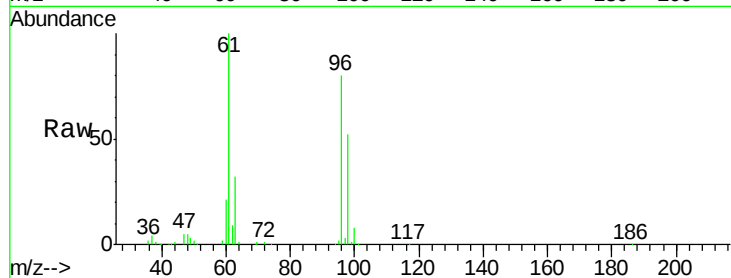


#27

cis-1,2-Dichloroethene
 Concen: 47.077 ug/l
 RT: 4.61 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VX000930.D
 Acq: 16 Apr 2018 20:05

Instrument :
 MSVOA_X
 ClientSampleId :

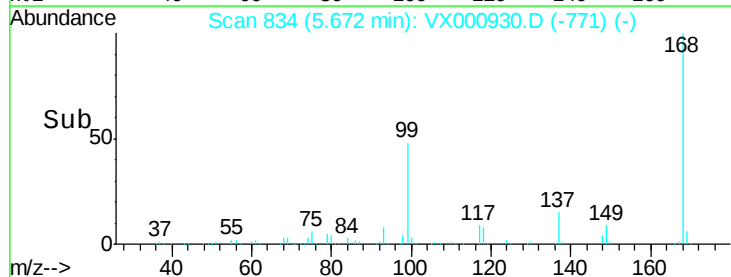
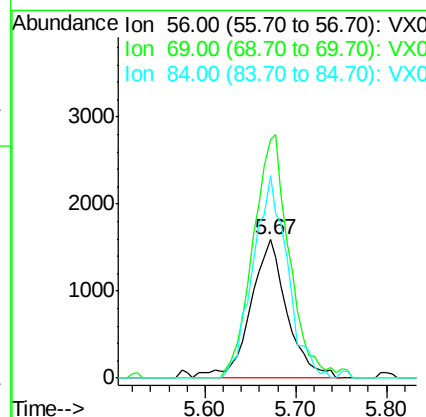
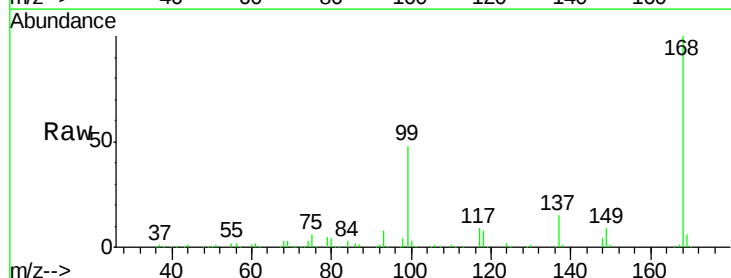
Tot Ion: 96 Resp: 139420
 Ion Ratio Lower Upper
 96 100
 61 126.0 0.0 292.4
 98 64.1 0.0 130.2

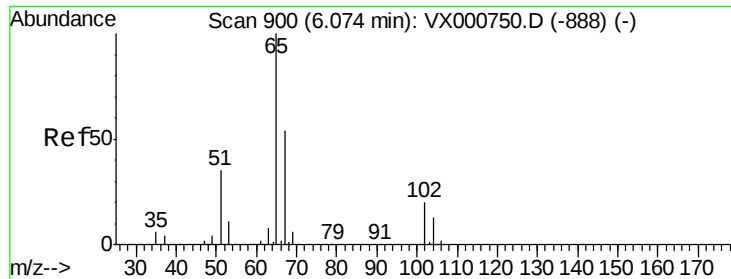


#31

Cyclohexane
 Concen: 1.030 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. 0.09 min
 Lab File: VX000930.D
 Acq: 16 Apr 2018 20:05

Tgt Ion: 56 Resp: 4416
 Ion Ratio Lower Upper
 56 100
 69 172.7 24.2 36.4#
 84 146.5 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 47.921 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

Instrument :

MSVOA_X

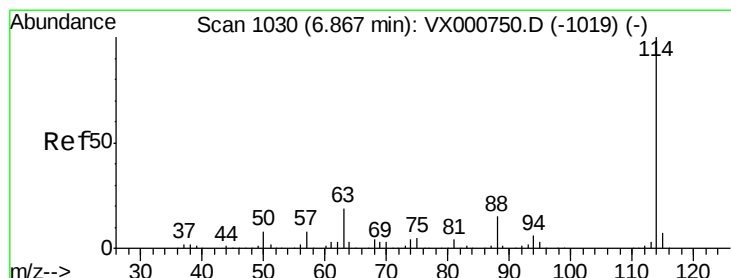
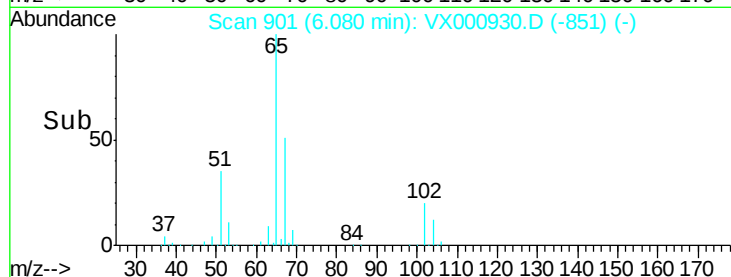
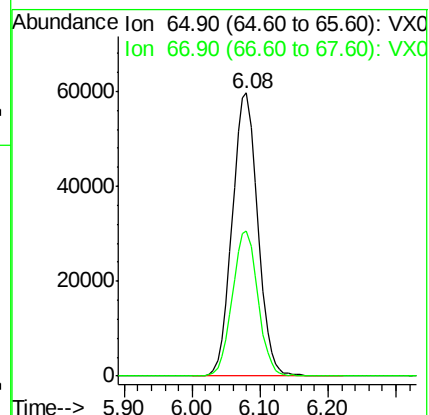
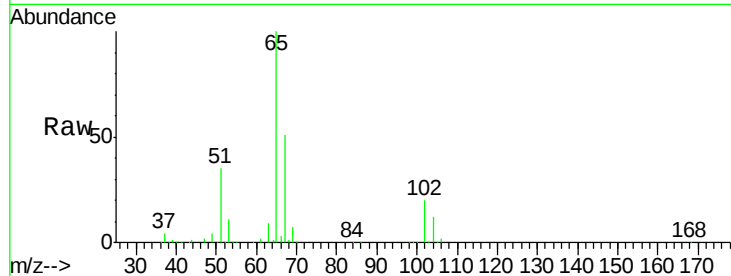
ClientSampleId :

Tot Ion: 65 Resp: 155796

Ion Ratio Lower Upper

65 100

67 51.3 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

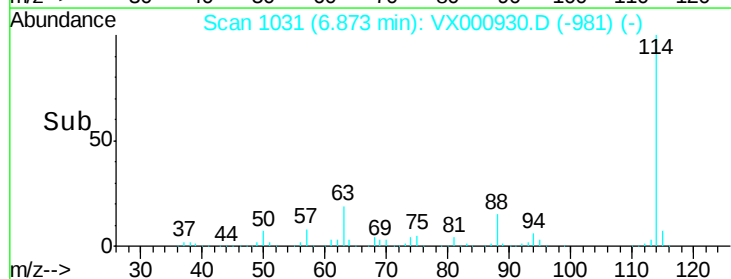
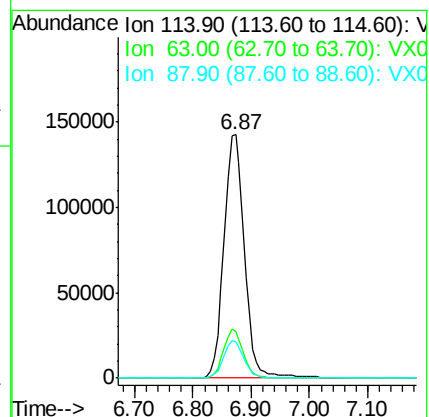
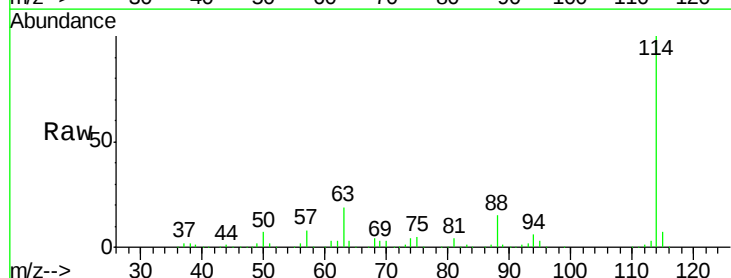
Tgt Ion: 114 Resp: 349058

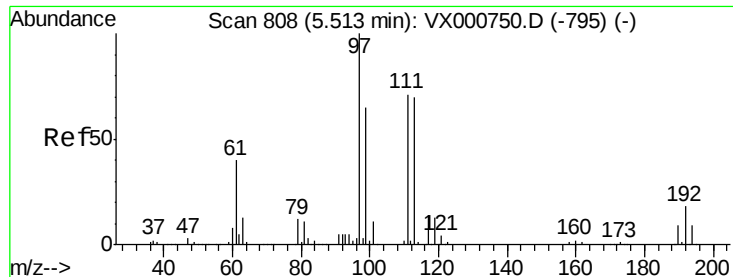
Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.4

88 14.8 0.0 31.0

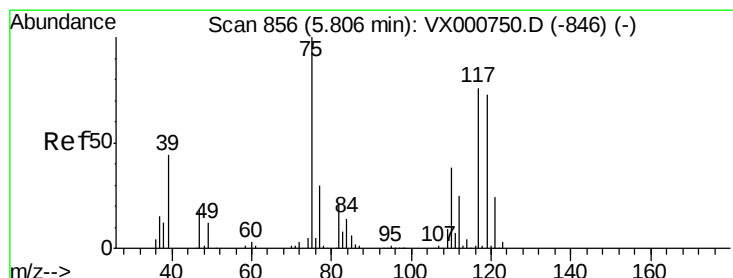
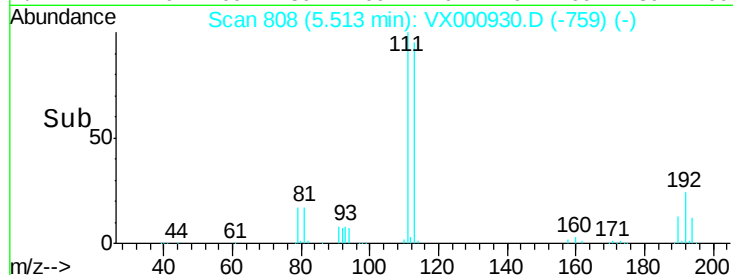
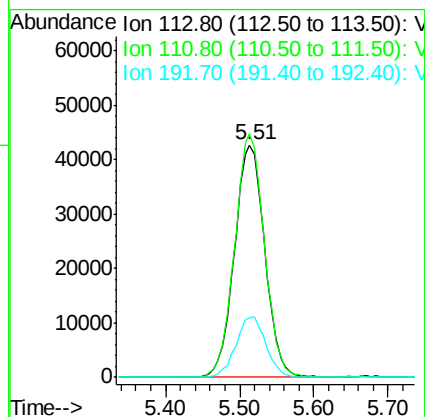
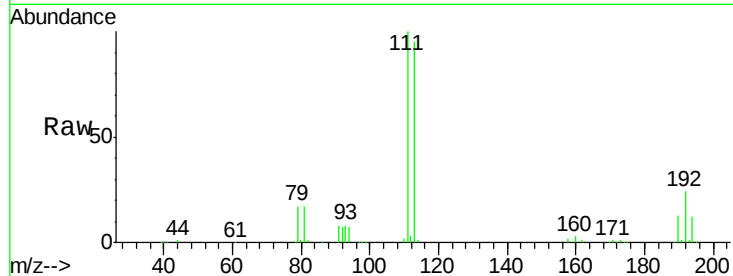




#35
 Dibromofluoromethane
 Concen: 45.440 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000930.D
 Acq: 16 Apr 2018 20:05

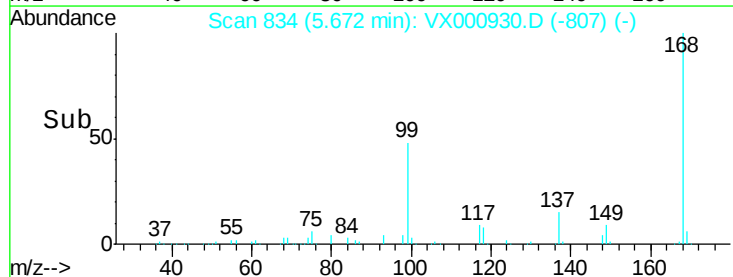
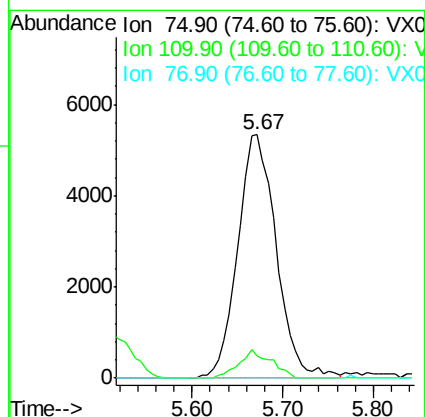
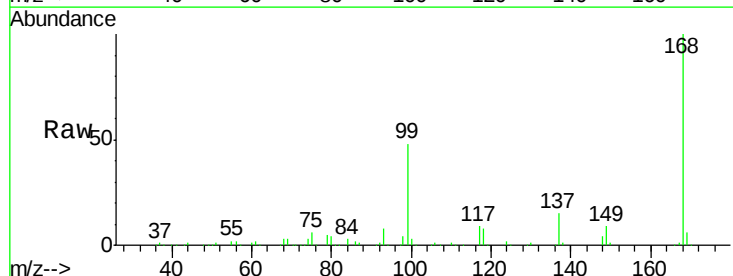
Instrument :
 MSVOA_X
 ClientSampled :

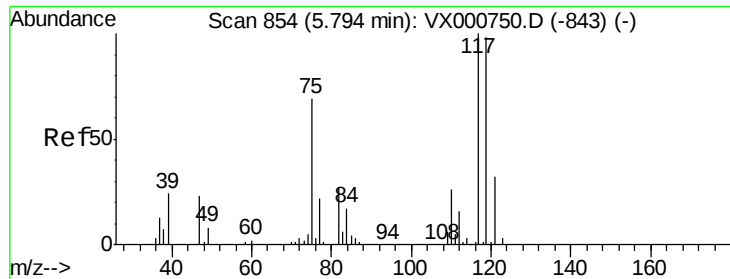
Tot Ion:113 Resp: 122201
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.5 122.3
 192 25.6 20.4 30.6



#36
 1,1-Dichloropropene
 Concen: 4.090 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX000930.D
 Acq: 16 Apr 2018 20:05

Tgt Ion: 75 Resp: 15722
 Ion Ratio Lower Upper
 75 100
 110 9.7 19.2 57.6#
 77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 4.928 ug/l

RT: 5.67 min Scan# 834

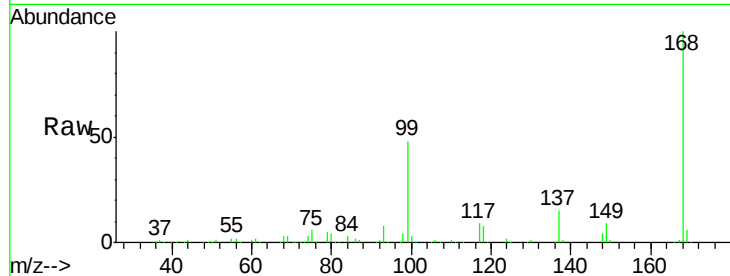
Delta R.T. -0.12 min

Lab File: VX000930.D

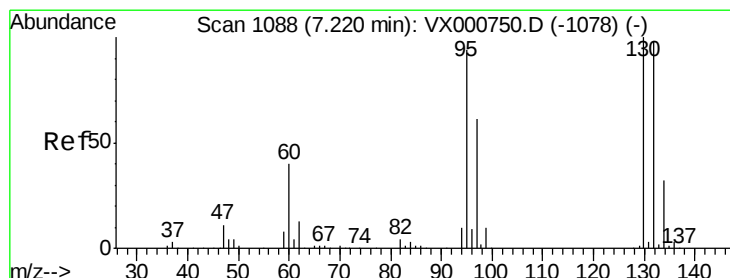
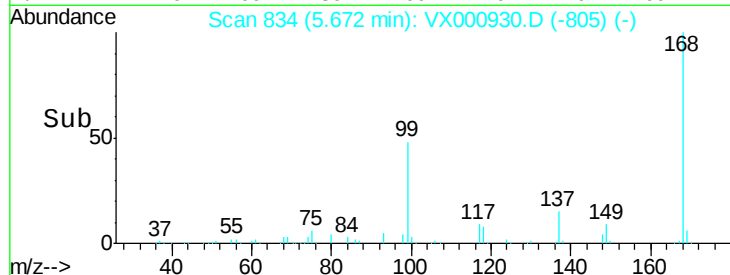
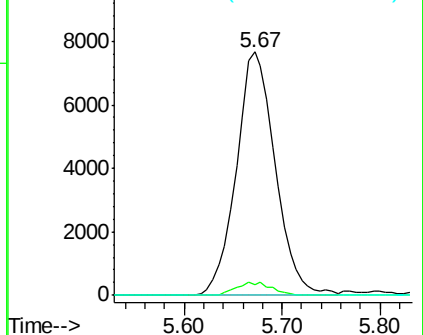
Acq: 16 Apr 2018 20:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 21202
Ion Ratio Lower Upper
117 100
119 4.6 78.4 117.6#
121 0.0 25.4 38.0#



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



#44

Trichloroethene

Concen: 6.802 ug/l

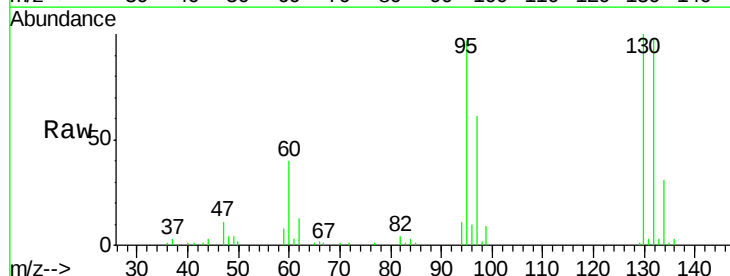
RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

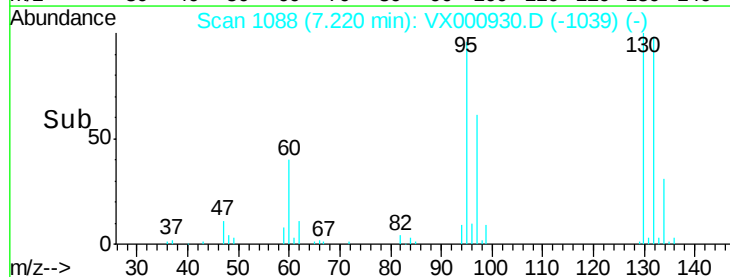
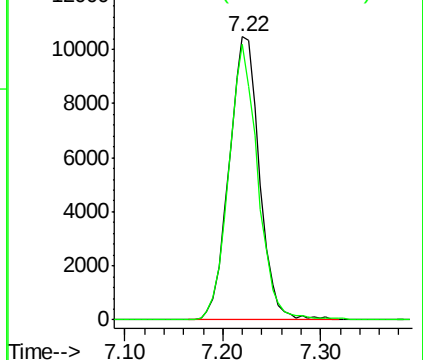
Lab File: VX000930.D

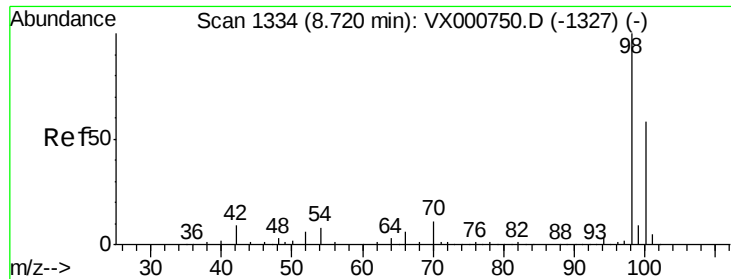
Acq: 16 Apr 2018 20:05

Tgt Ion:130 Resp: 22595
Ion Ratio Lower Upper
130 100
95 97.5 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

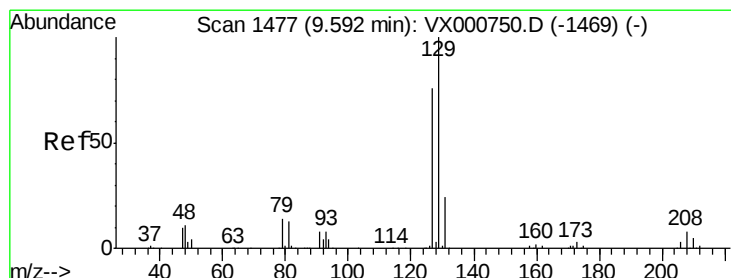
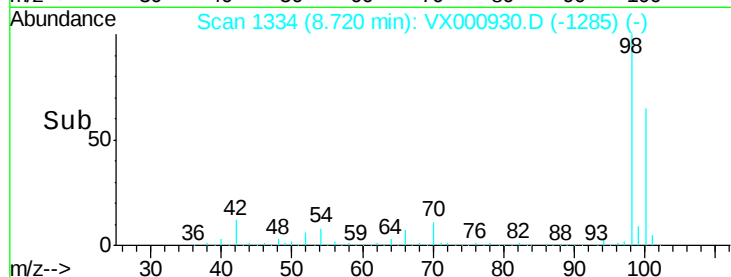
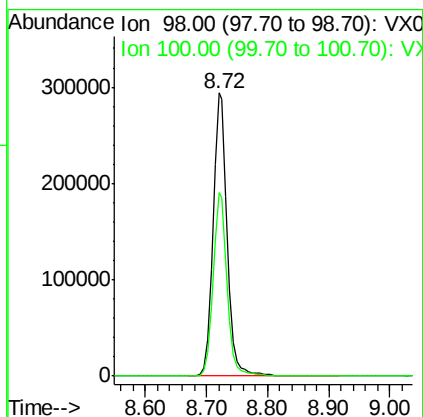
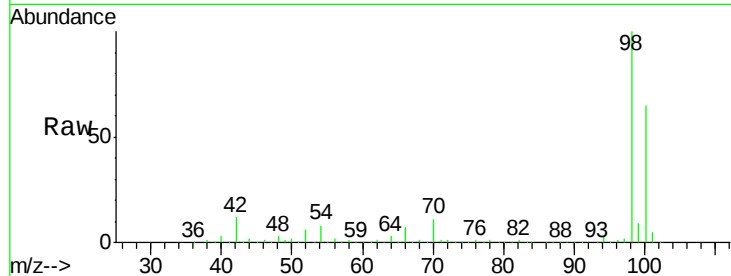




#50
Toluene-d8
Concen: 48.587 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX000930.D
Acq: 16 Apr 2018 20:05

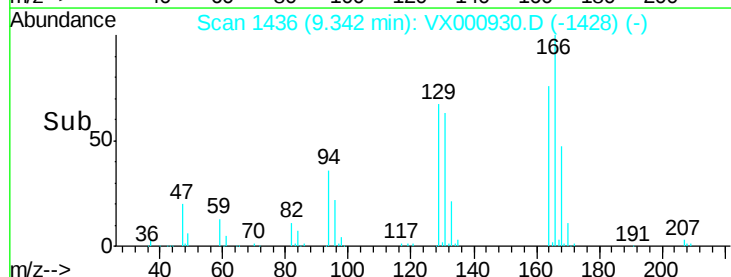
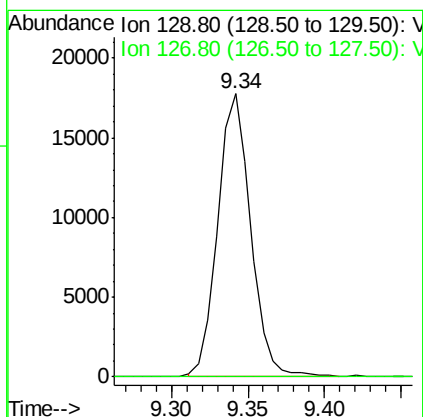
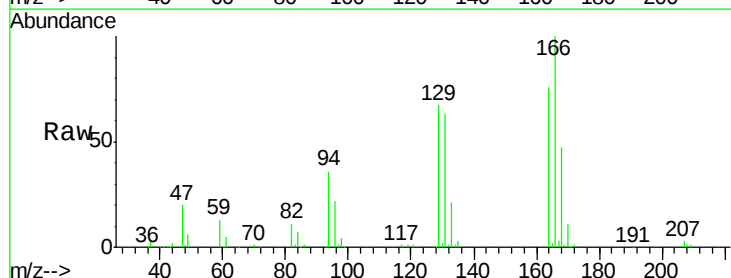
Instrument :
MSVOA_X
ClientSampleId :

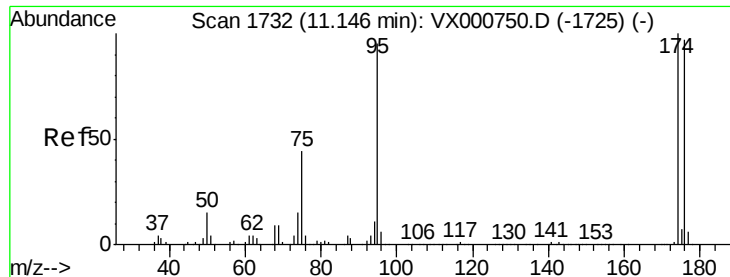
Tot Ion: 98 Resp: 486513
Ion Ratio Lower Upper
98 100
100 64.5 52.6 79.0



#60
Dibromochloromethane
Concen: 7.866 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.25 min
Lab File: VX000930.D
Acq: 16 Apr 2018 20:05

Tgt Ion: 129 Resp: 26478
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.1#

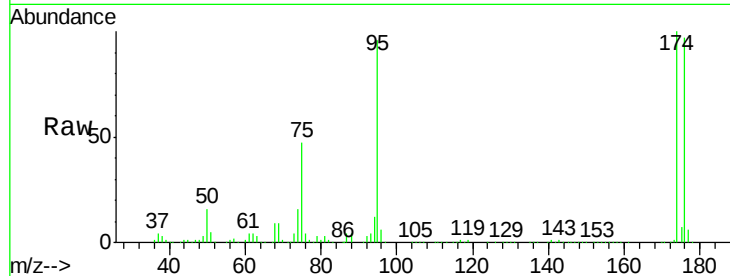




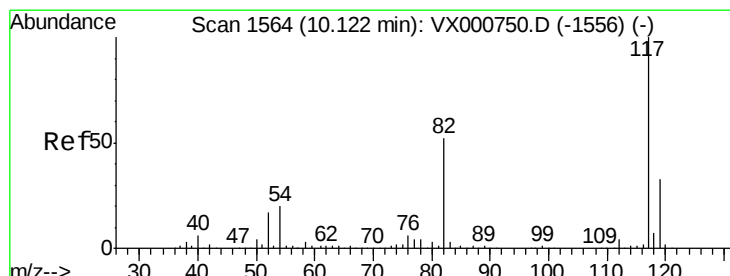
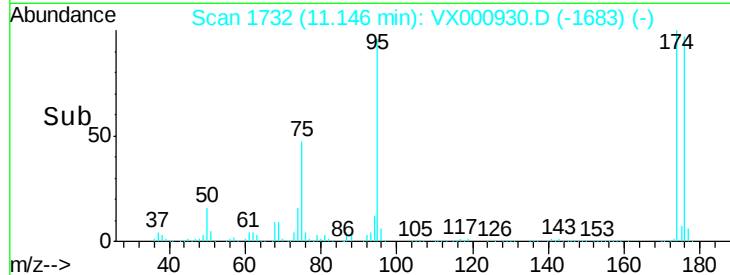
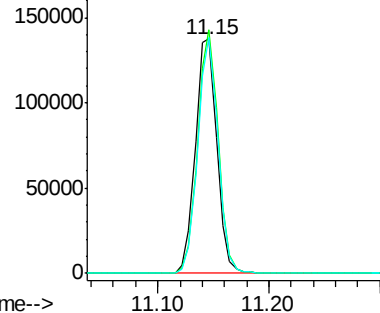
#62
4-Bromofluorobenzene
Concen: 44.356 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VX000930.D
Acq: 16 Apr 2018 20:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 183758
Ion Ratio Lower Upper
95 100
174 98.7 0.0 198.4
176 95.1 0.0 194.4

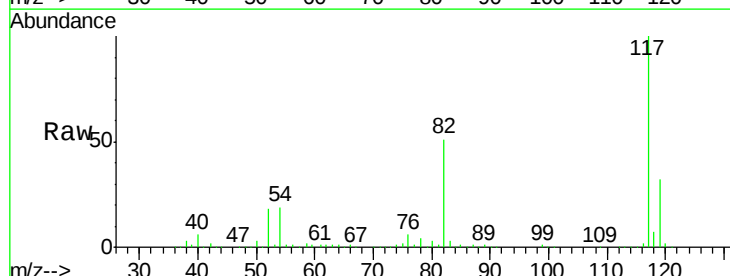


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

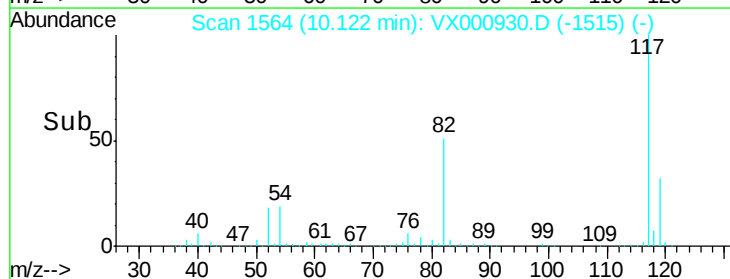
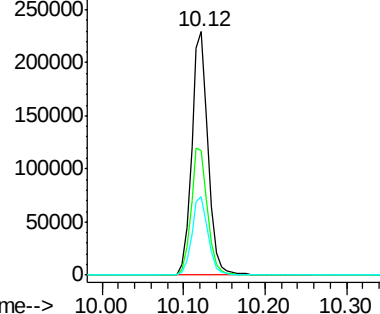


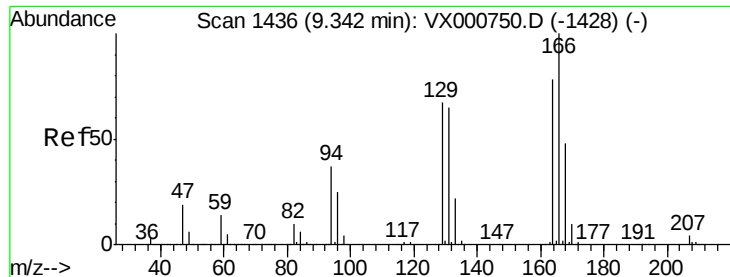
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000930.D
Acq: 16 Apr 2018 20:05

Tgt Ion: 117 Resp: 320195
Ion Ratio Lower Upper
117 100
82 51.4 41.9 62.9
119 32.3 26.0 39.0



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





#64

Tetrachloroethene

Concen: 9.728 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 30457

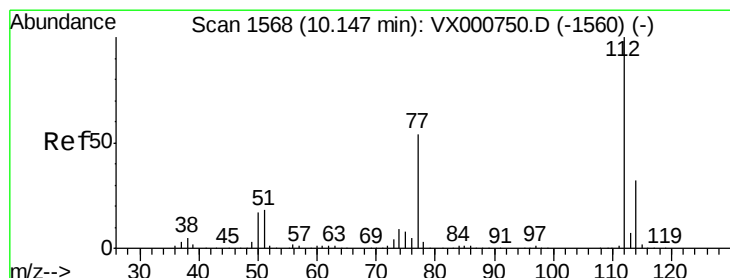
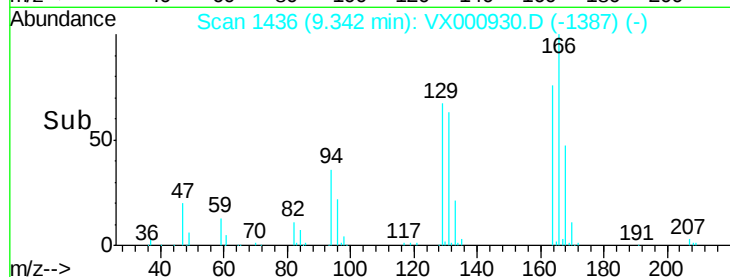
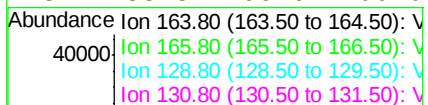
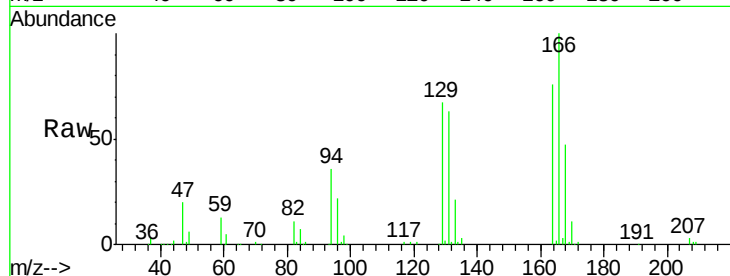
Ion Ratio Lower Upper

164 100

166 131.6 102.8 154.2

129 87.8 68.5 102.7

131 83.5 66.6 100.0



#65

Chlorobenzene

Concen: 0.282 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VX000930.D

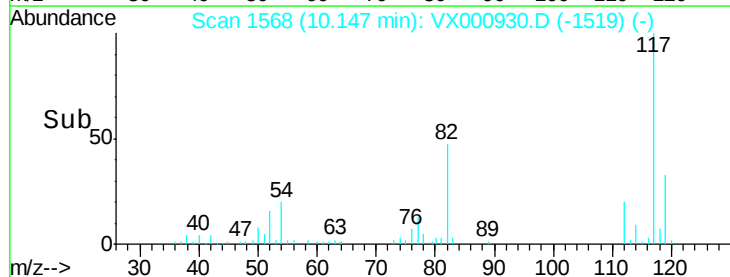
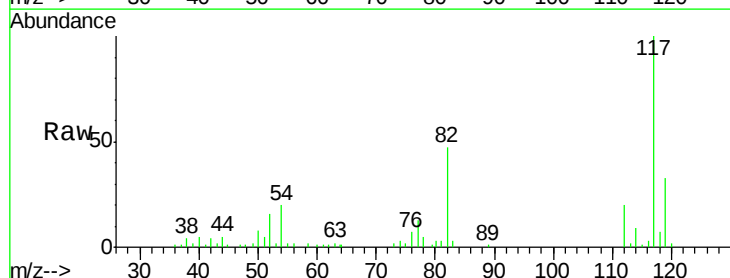
Acq: 16 Apr 2018 20:05

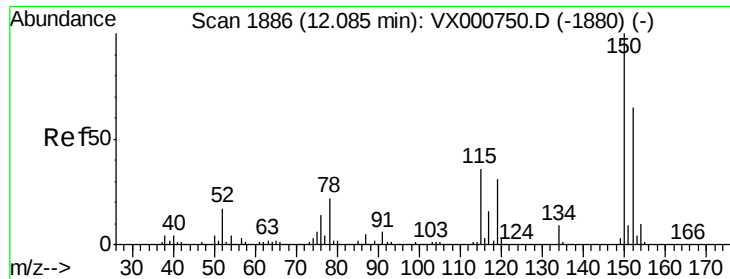
Tgt Ion:112 Resp: 2270

Ion Ratio Lower Upper

112 100

114 45.8 25.8 38.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

Instrument :

MSVOA_X

ClientSampleId :

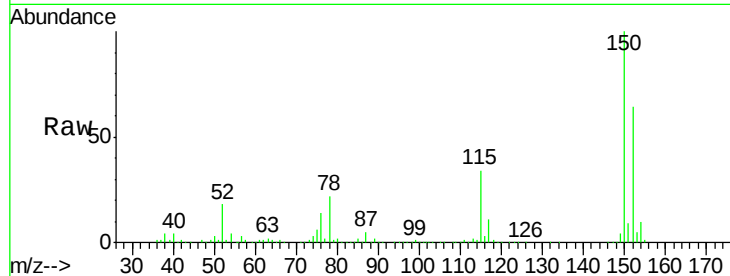
Tot Ion:152 Resp: 201411

Ion Ratio Lower Upper

152 100

115 53.3 37.9 113.7

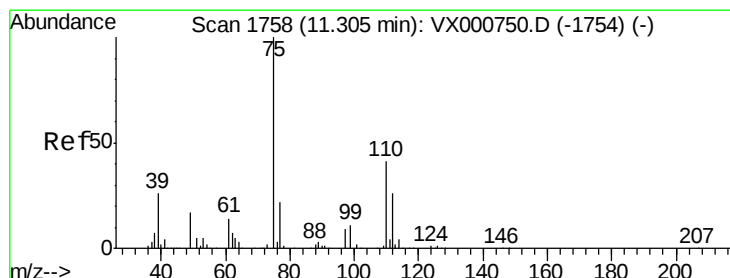
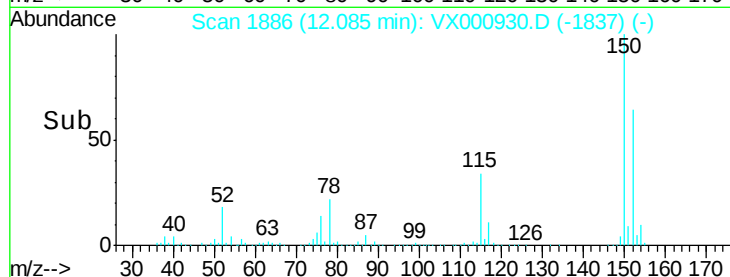
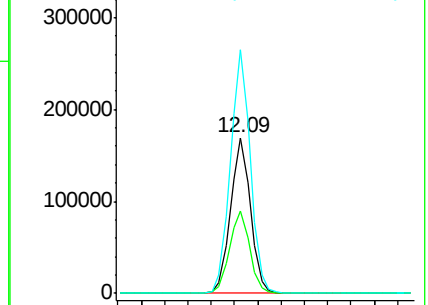
150 156.1 0.0 348.0



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: 26.445 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000930.D

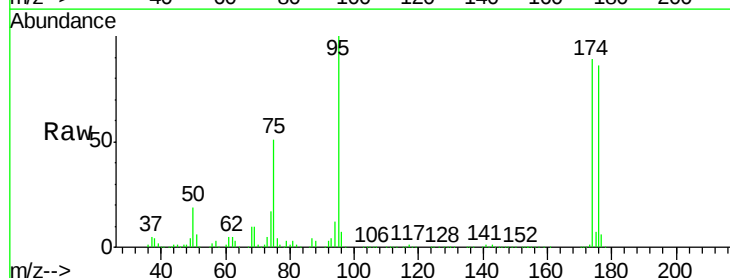
Acq: 16 Apr 2018 20:05

Tgt Ion: 75 Resp: 91857

Ion Ratio Lower Upper

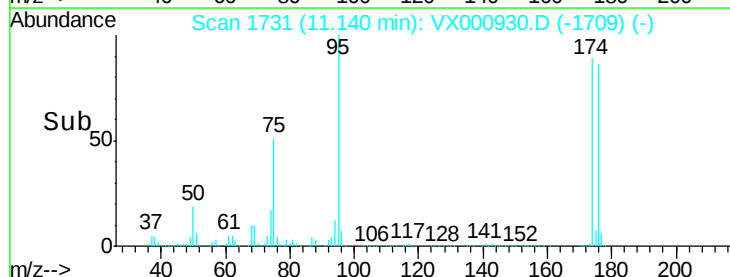
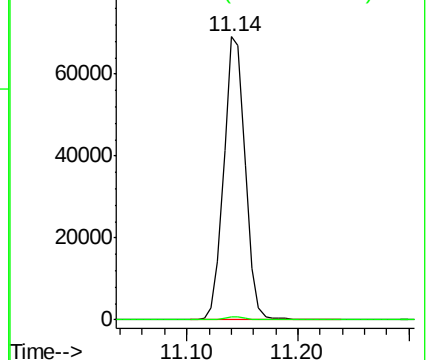
75 100

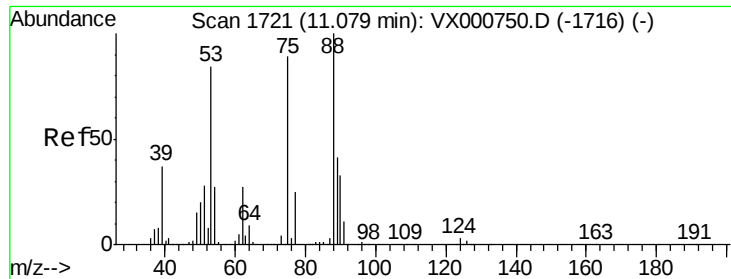
77 1.1 20.5 61.5#



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: 72.744 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000930.D

Acq: 16 Apr 2018 20:05

Instrument :

MSVOA_X

ClientSampleId :

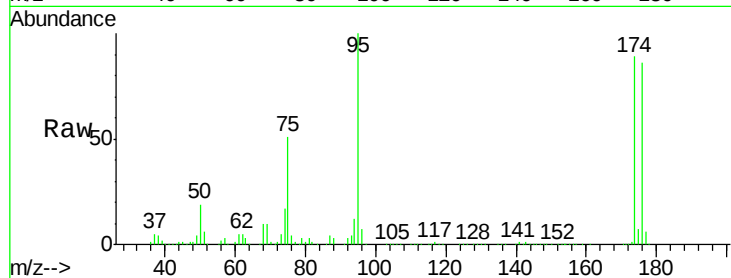
Tot Ion: 75 Resp: 91857

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#



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

