

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042718\
 Data File : VX001172.D
 Acq On : 27 Apr 2018 16:03
 Operator : JC/MD
 Sample : J2463-15 100X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW045-180416DL

Quant Time: Apr 28 03:08:26 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X042618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 27 01:51:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	200868	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	281185	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	251745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144003	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	142875	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
35) Dibromofluoromethane	5.51	113	111201	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	8.72	98	422534	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
62) 4-Bromofluorobenzene	11.14	95	146218	42.62	ug/l	0.00
Spiked Amount			Recovery	=	85.24%	

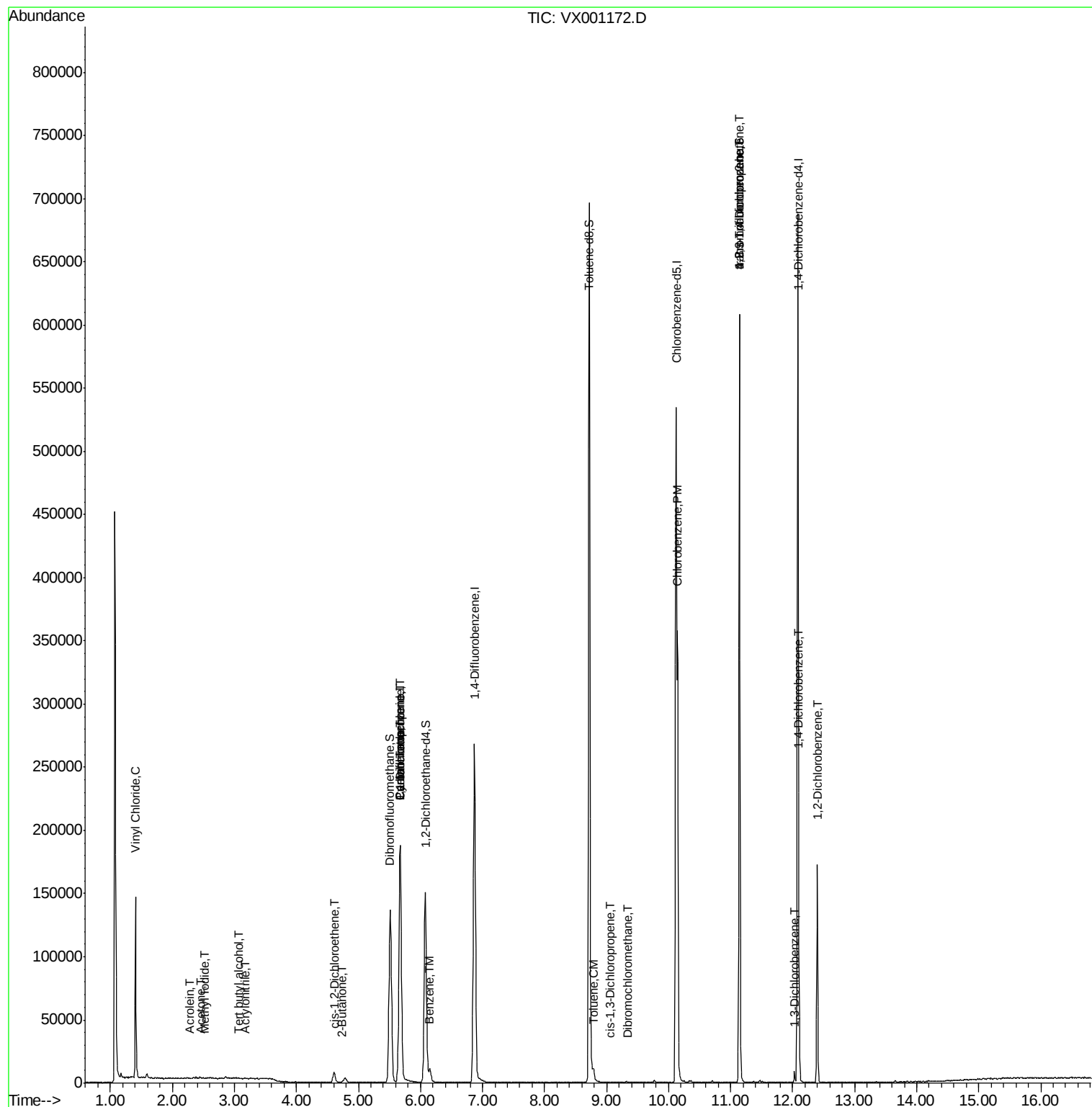
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	90284	38.571	ug/l	99
5) Bromomethane	1.66	94	382	Below Cal		84
10) Methyl Iodide	2.52	142	265	7.344	ug/l #	70
11) Tert butyl alcohol	3.08	59	182	0.296	ug/l #	72
13) Acrolein	2.28	56	107	0.461	ug/l #	14
15) Acrylonitrile	3.16	53	308	0.235	ug/l #	57
16) Acetone	2.45	43	836	0.653	ug/l	96
25) 2-Butanone	4.73	43	521	0.272	ug/l #	50
27) cis-1,2-Dichloroethene	4.62	96	4838	1.968	ug/l	90
31) Cyclohexane	5.68	56	3872	1.170	ug/l #	14
36) 1,1-Dichloropropene	5.68	75	12851	4.147	ug/l #	49
38) Carbon Tetrachloride	5.67	117	17725	5.579	ug/l #	16
40) Benzene	6.15	78	11190	1.248	ug/l	94
52) Toluene	8.79	92	2104	0.359	ug/l	96
54) cis-1,3-Dichloropropene	9.06	75	21	3.192	ug/l #	43
60) Dibromochloromethane	9.34	129	22	3.353	ug/l #	11
65) Chlorobenzene	10.15	112	147839	22.415	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	76539	26.102	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	76539	79.588	ug/l #	6
87) 1,3-Dichlorobenzene	12.03	146	2603	0.521	ug/l	95
88) 1,4-Dichlorobenzene	12.10	146	19978	3.837	ug/l	95
91) 1,2-Dichlorobenzene	12.40	146	54438	10.779	ug/l	99

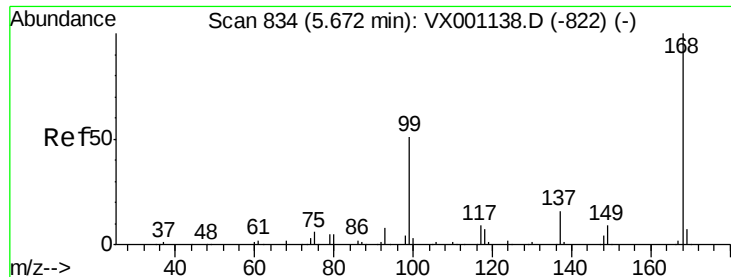
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 27 01:51:42 2018
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: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

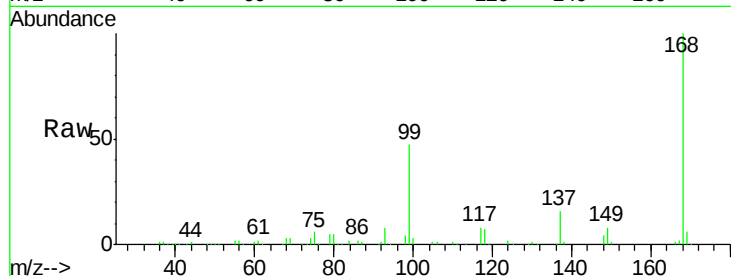
LF015MW045-180416DL

Tgt Ion:168 Resp: 200868

Ion Ratio Lower Upper

168 100

99 46.9 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

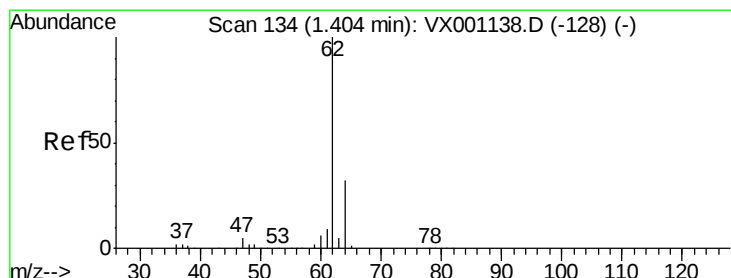
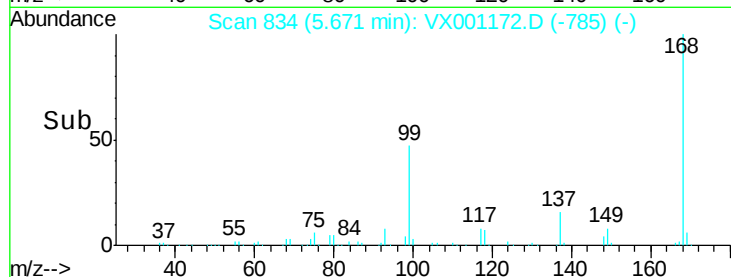
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 38.571 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX001172.D

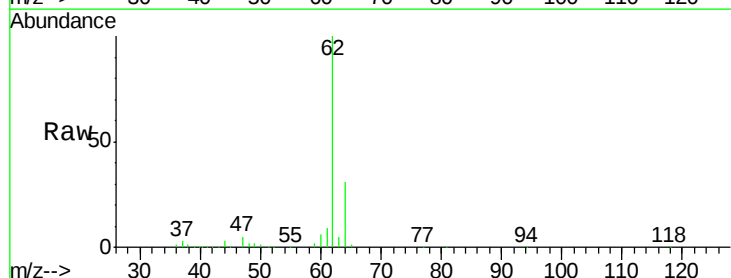
Acq: 27 Apr 2018 16:03

Tgt Ion: 62 Resp: 90284

Ion Ratio Lower Upper

62 100

64 31.3 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

100000

80000

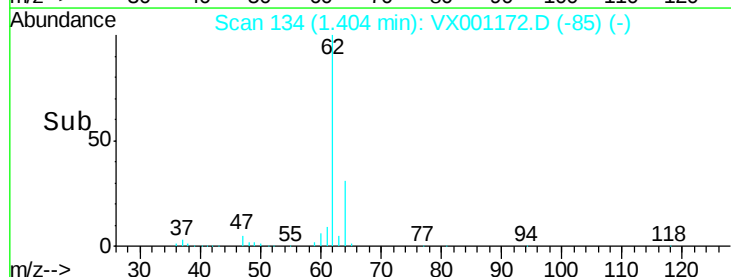
60000

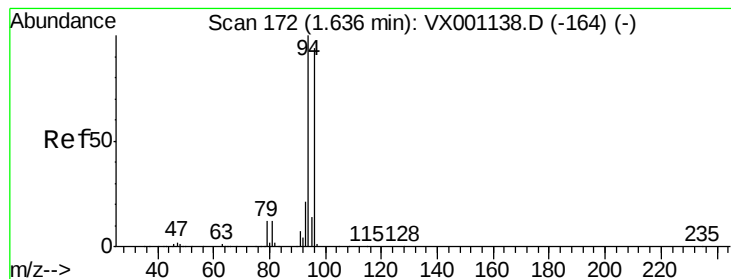
40000

20000

0

Time--> 1.40 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

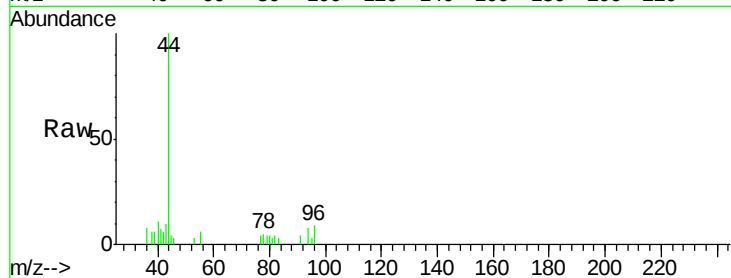
LF015MW045-180416DL

Tgt Ion: 94 Resp: 382

Ion Ratio Lower Upper

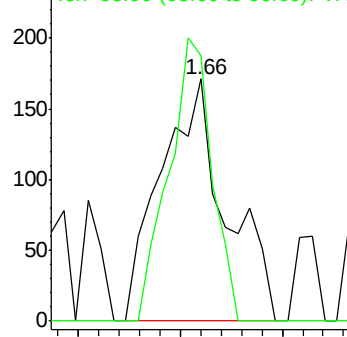
94 100

96 109.9 75.3 112.9

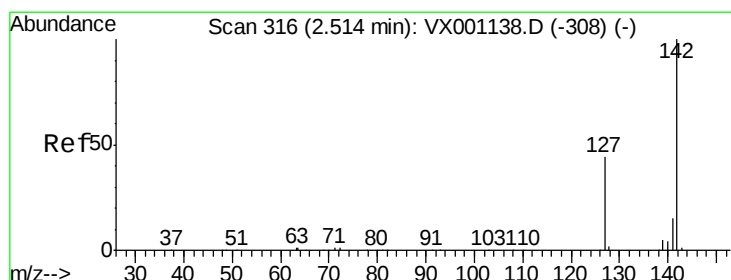
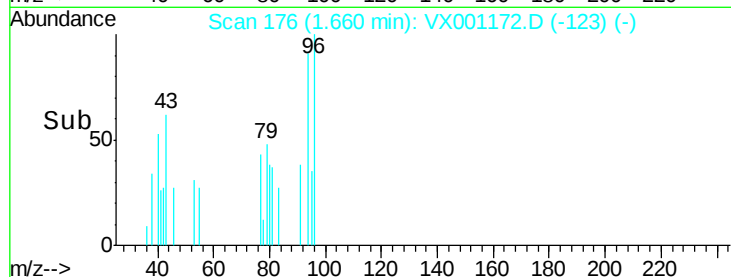


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 7.344 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

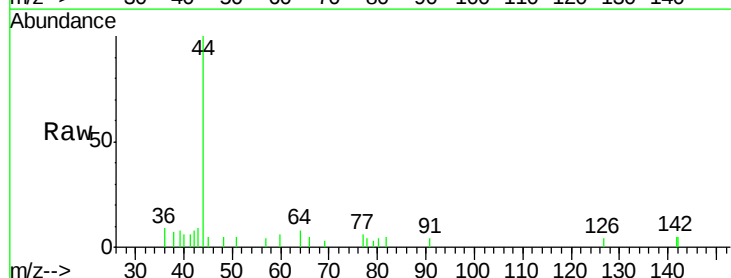
Tgt Ion: 142 Resp: 265

Ion Ratio Lower Upper

142 100

127 25.7 34.7 52.1#

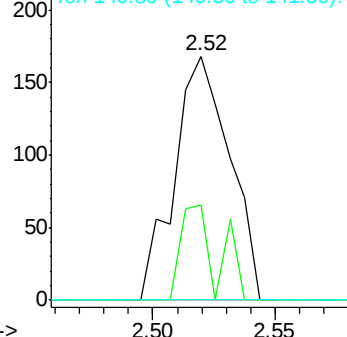
141 0.0 11.6 17.4#



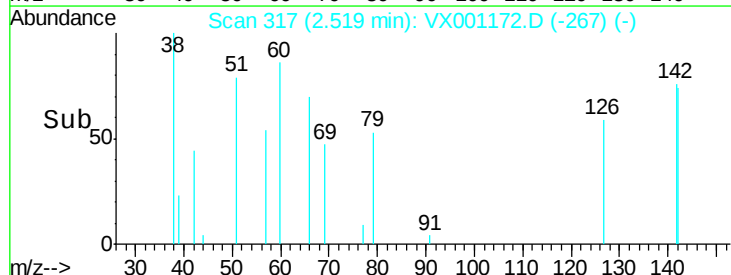
Abundance Ion 141.80 (141.50 to 142.50): V

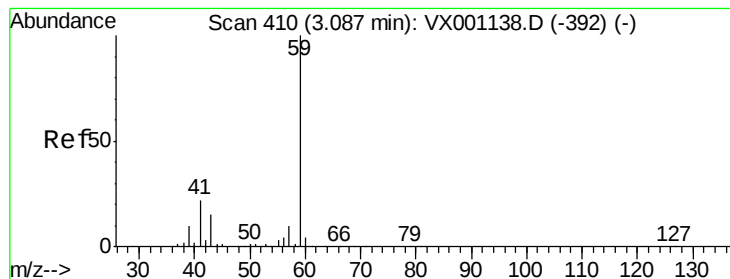
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#11

Tert butyl alcohol

Concen: 0.296 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.01 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

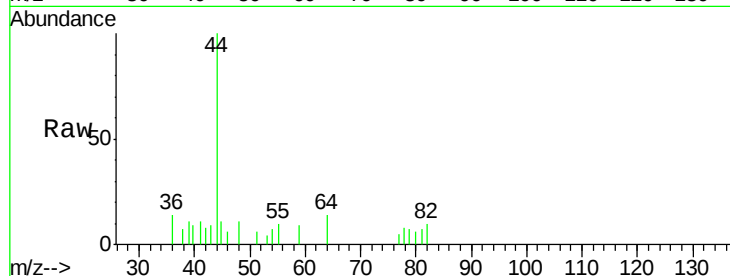
LF015MW045-180416DL

Tgt Ion: 59 Resp: 182

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

150

100

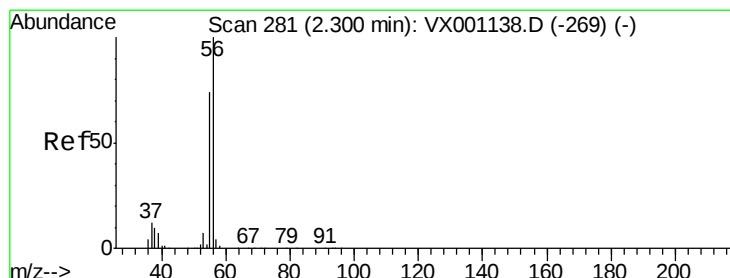
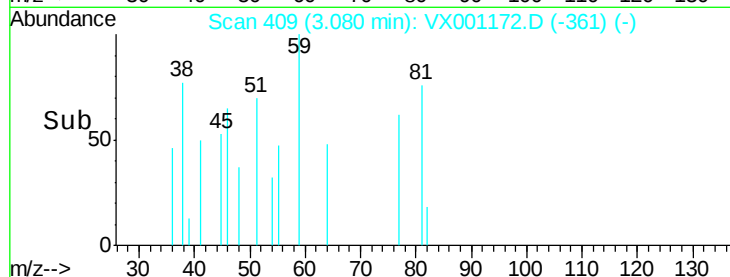
50

0

3.04 3.06 3.08 3.10 3.12

3.08

Time-->



#13

Acrolein

Concen: 0.461 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.02 min

Lab File: VX001172.D

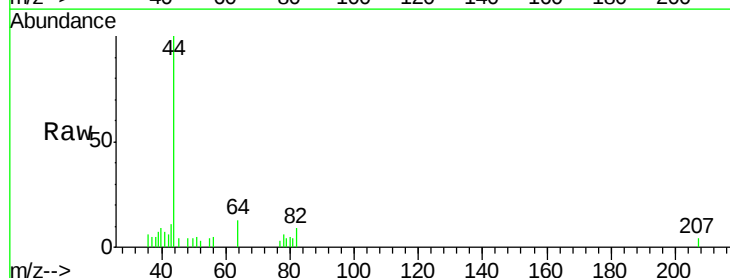
Acq: 27 Apr 2018 16:03

Tgt Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 0.0 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

100

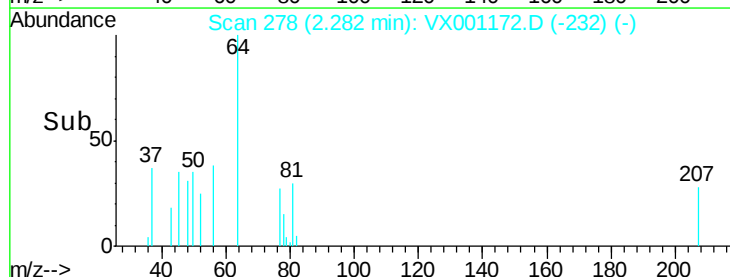
50

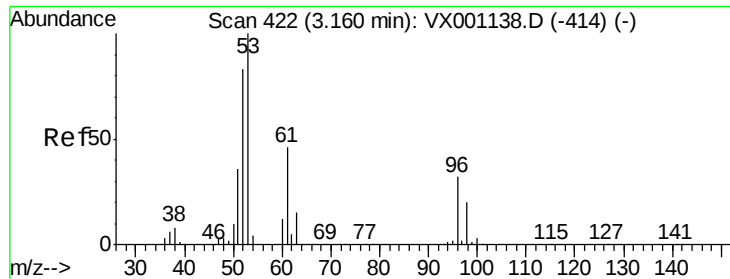
0

2.26 2.28 2.30 2.32

2.28

Time-->





#15

Acrylonitrile

Concen: 0.235 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.00 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF015MW045-180416DL

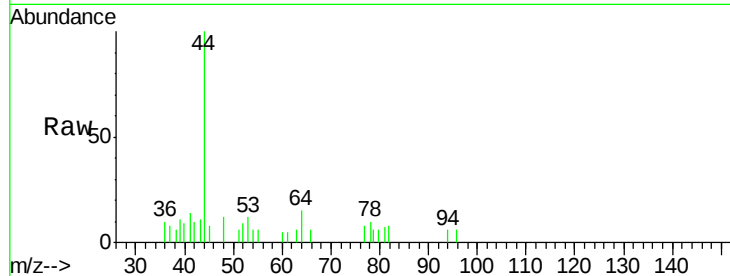
Tgt Ion: 53 Resp: 308

Ion Ratio Lower Upper

53 100

52 52.3 66.5 99.7#

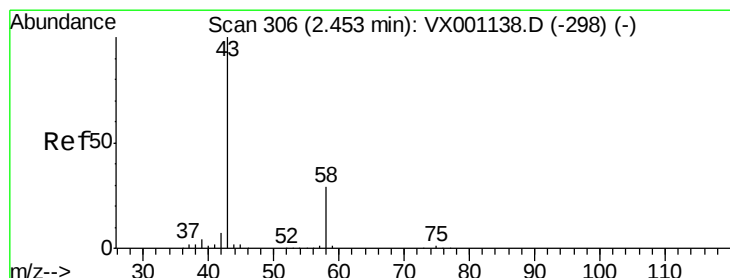
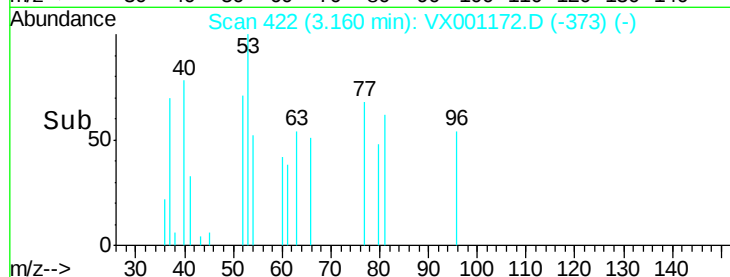
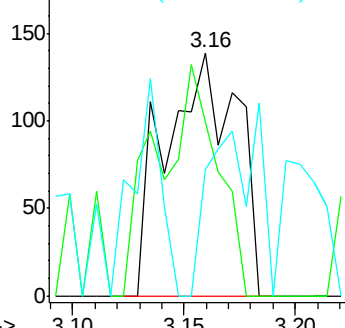
51 0.0 29.5 44.3#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.653 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001172.D

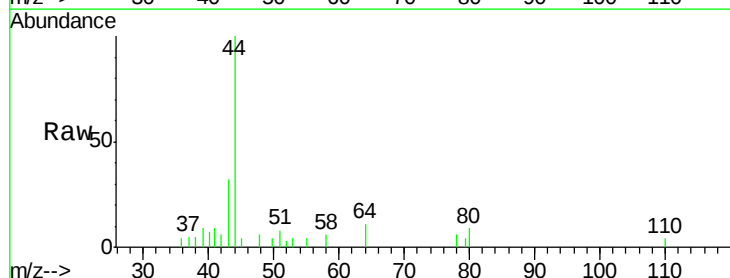
Acq: 27 Apr 2018 16:03

Tgt Ion: 43 Resp: 836

Ion Ratio Lower Upper

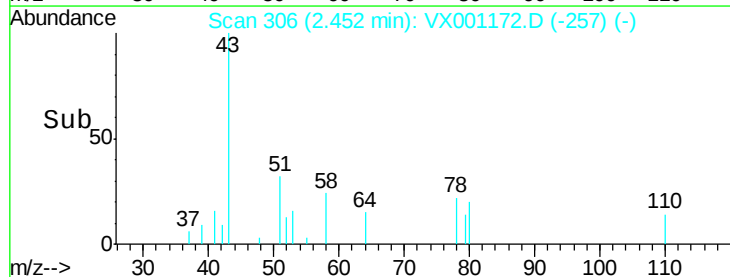
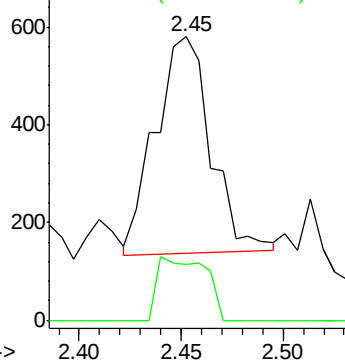
43 100

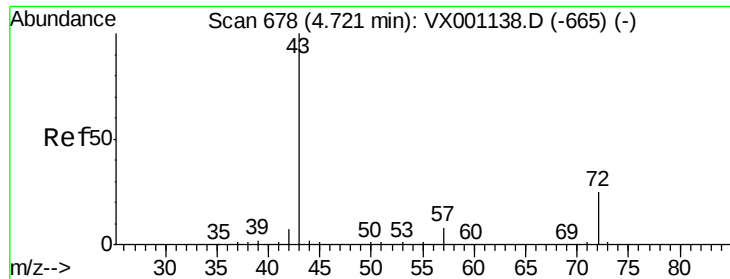
58 26.7 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 0.272 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.01 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

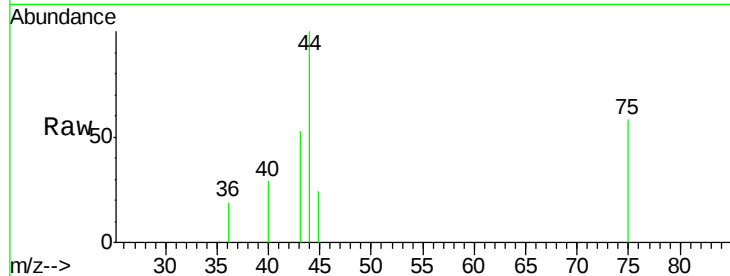
LF015MW045-180416DL

Tgt Ion: 43 Resp: 521

Ion Ratio Lower Upper

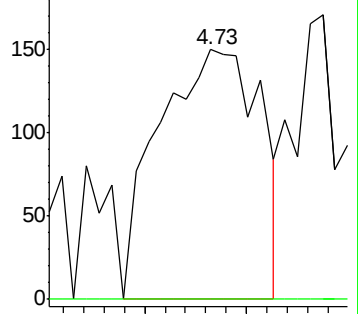
43 100

72 0.0 20.0 30.0#

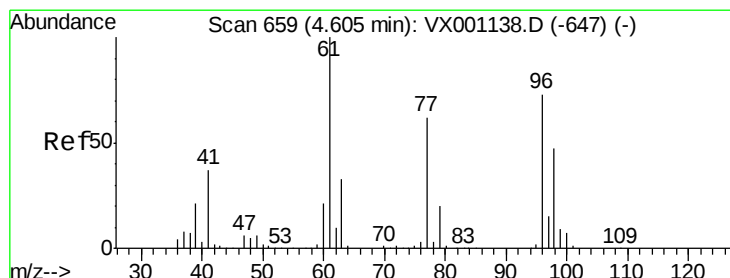
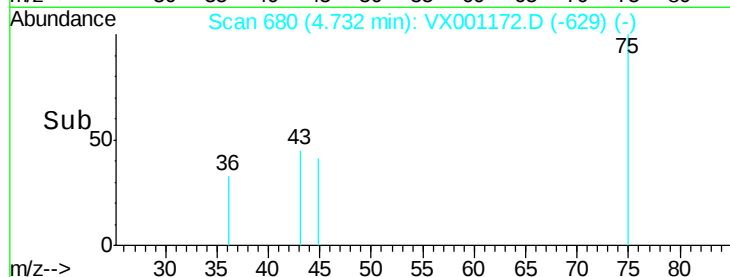


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.968 ug/l

RT: 4.62 min Scan# 661

Delta R.T. 0.01 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

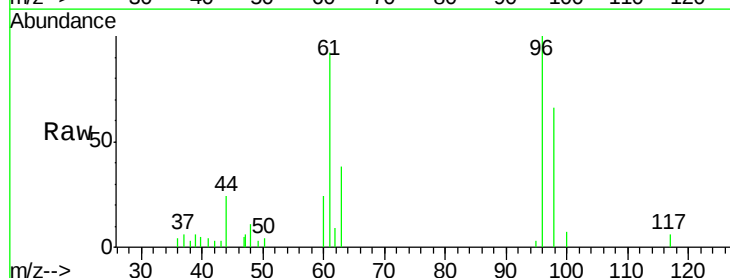
Tgt Ion: 96 Resp: 4838

Ion Ratio Lower Upper

96 100

61 126.9 0.0 289.0

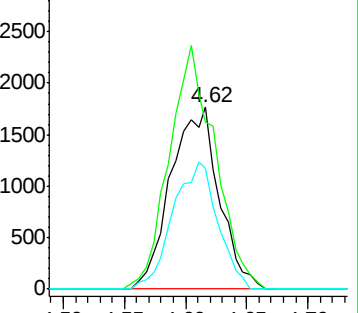
98 65.1 0.0 128.2



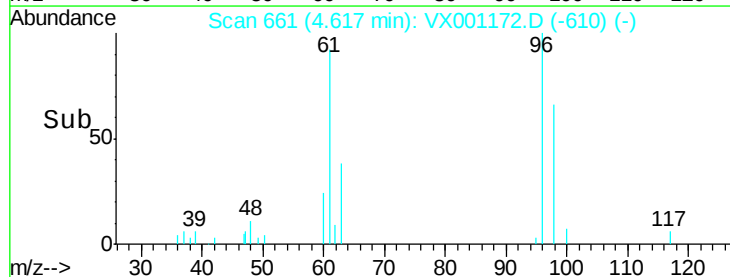
Abundance Ion 95.90 (95.60 to 96.60): VX0

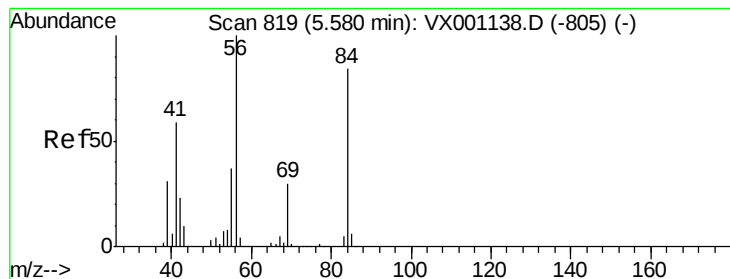
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->





#31

Cyclohexane

Concen: 1.170 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.10 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

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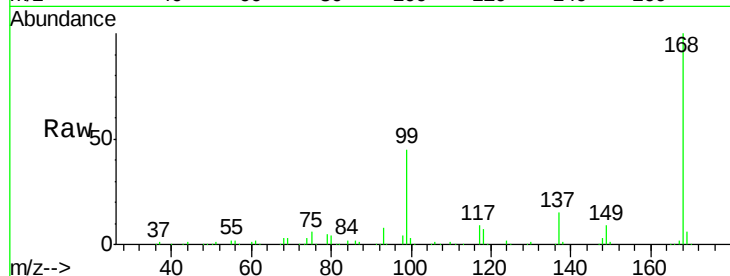
Tgt Ion: 56 Resp: 3872

Ion Ratio Lower Upper

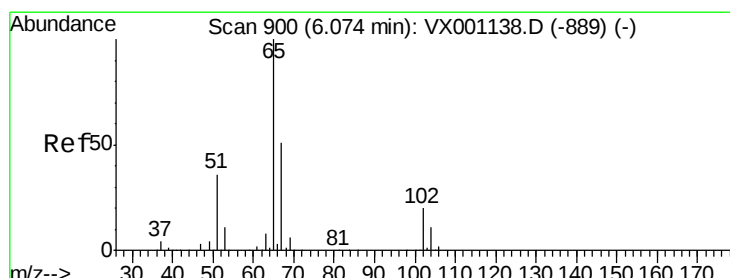
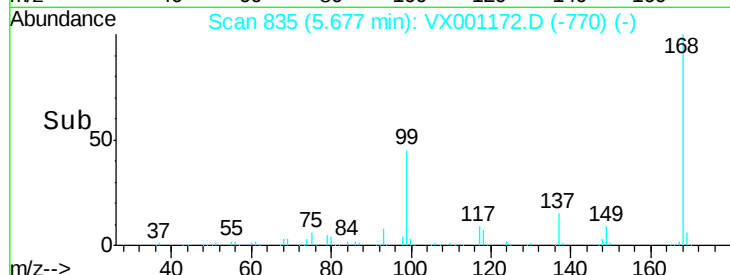
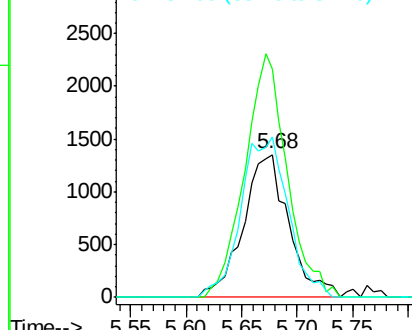
56 100

69 160.0 24.2 36.2#

84 113.0 67.5 101.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.886 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001172.D

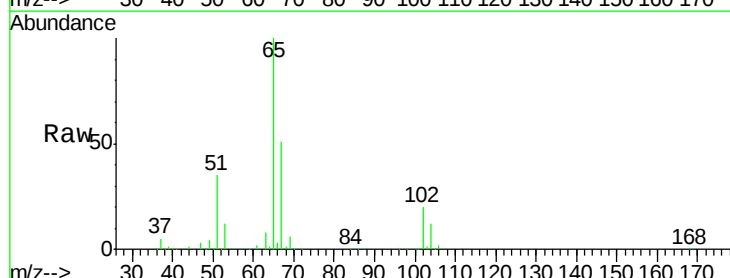
Acq: 27 Apr 2018 16:03

Tgt Ion: 65 Resp: 142875

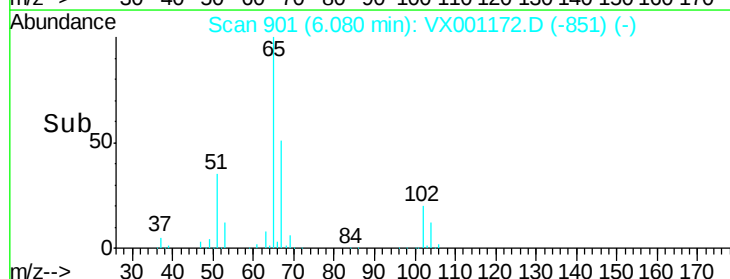
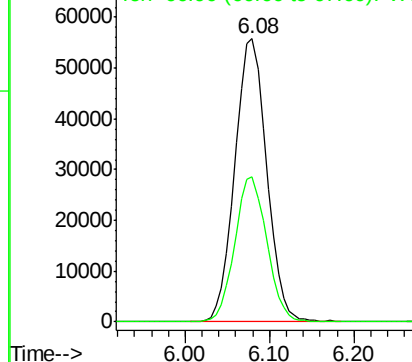
Ion Ratio Lower Upper

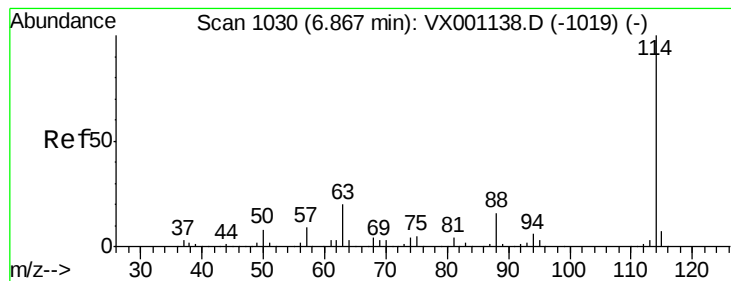
65 100

67 51.7 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF015MW045-180416DL

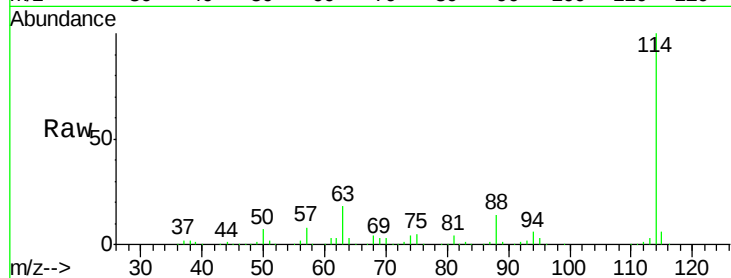
Tgt Ion:114 Resp: 281185

Ion Ratio Lower Upper

114 100

63 18.0 0.0 40.4

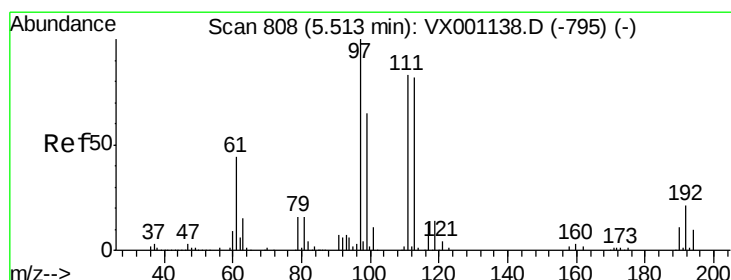
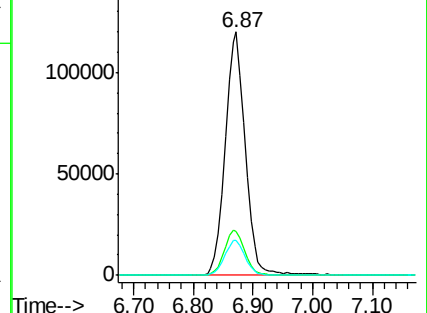
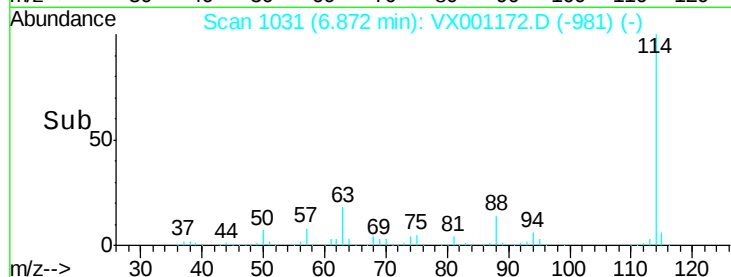
88 14.2 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.780 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

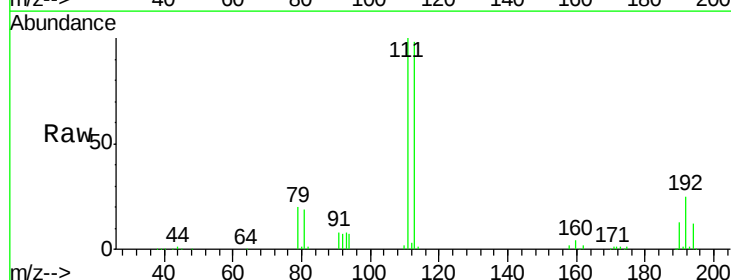
Tgt Ion:113 Resp: 111201

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

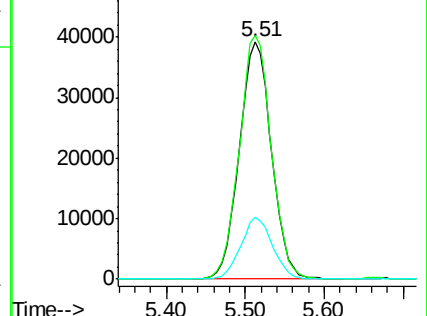
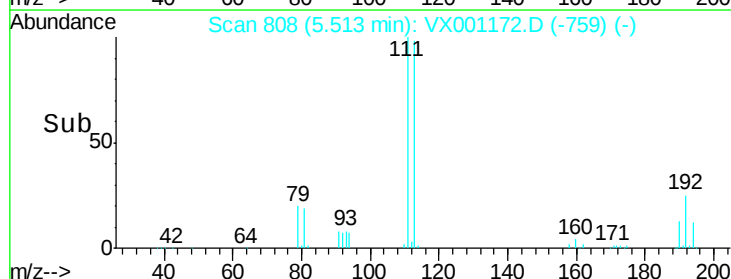
192 25.6 20.6 30.8

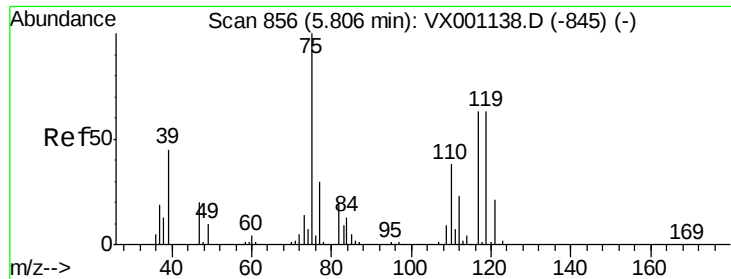


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

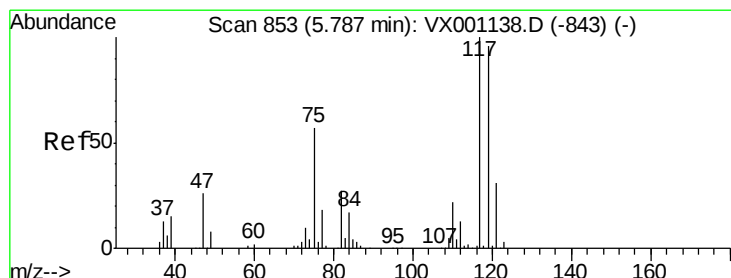
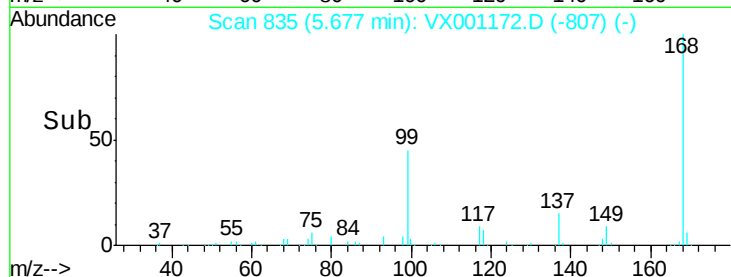
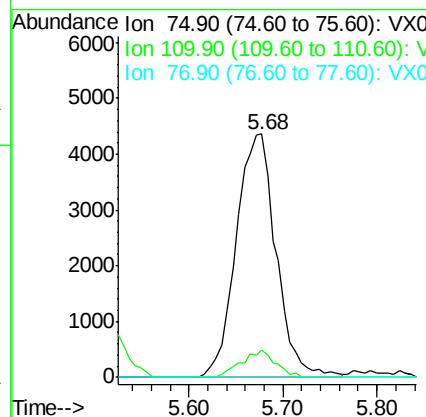
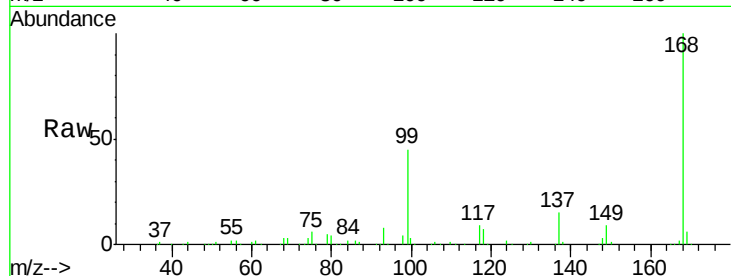




#36
 1,1-Dichloropropene
 Concen: 4.147 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX001172.D
 Acq: 27 Apr 2018 16:03

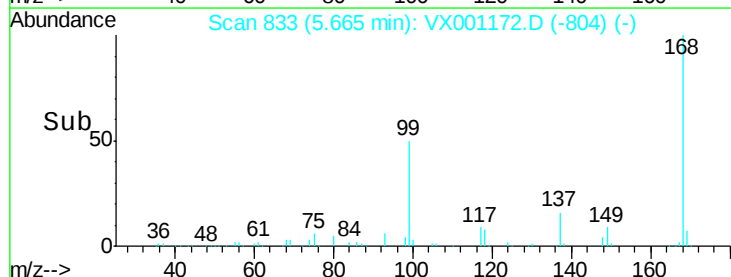
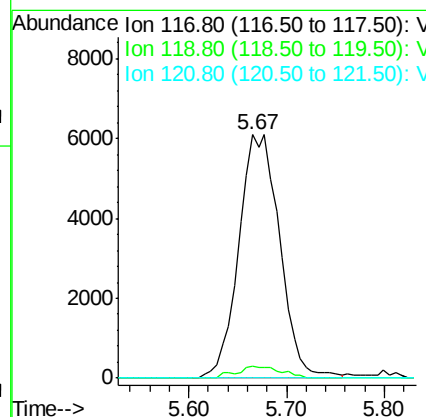
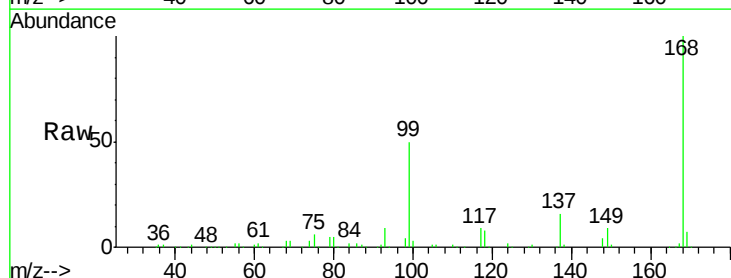
Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW045-180416DL

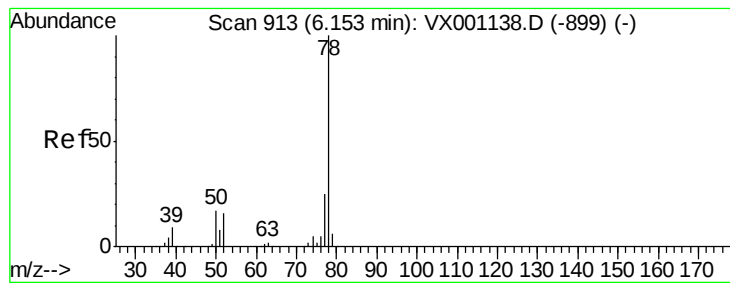
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.0	57.0#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.579 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX001172.D
 Acq: 27 Apr 2018 16:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.5	114.7#
121	0.0	24.6	37.0#





#40

Benzene

Concen: 1.248 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.01 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

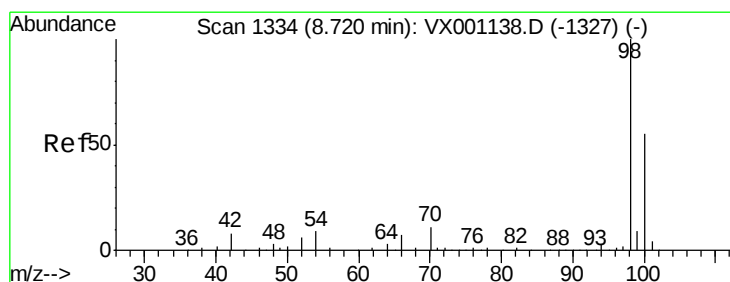
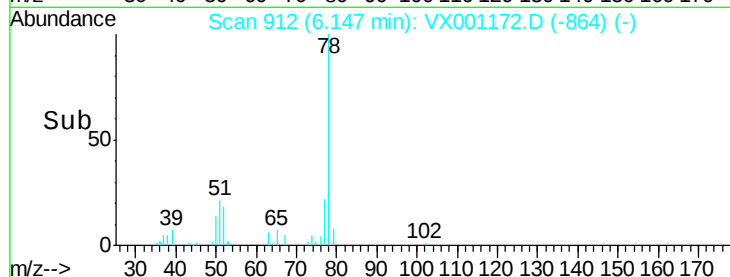
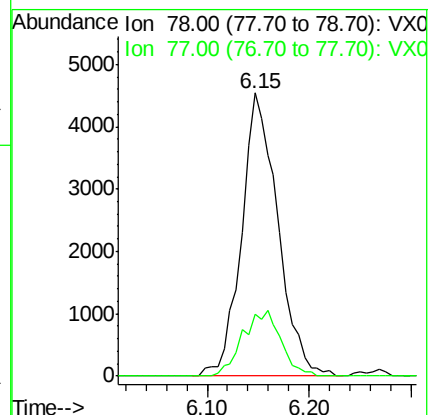
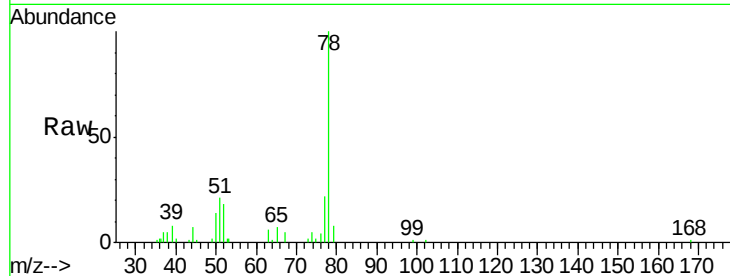
LF015MW045-180416DL

Tgt Ion: 78 Resp: 11190

Ion Ratio Lower Upper

78 100

77 21.7 19.7 29.5



#50

Toluene-d8

Concen: 48.108 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX001172.D

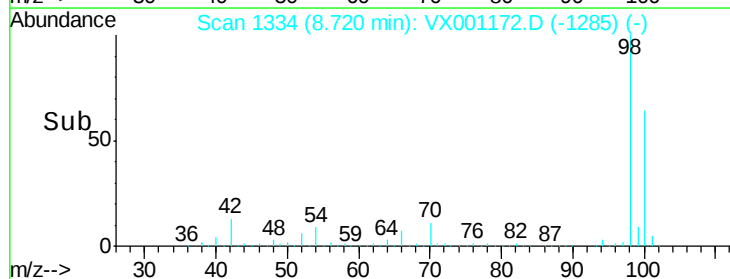
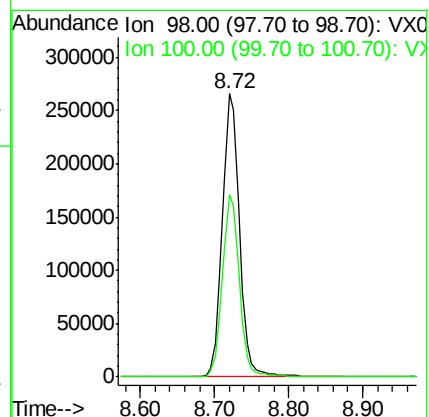
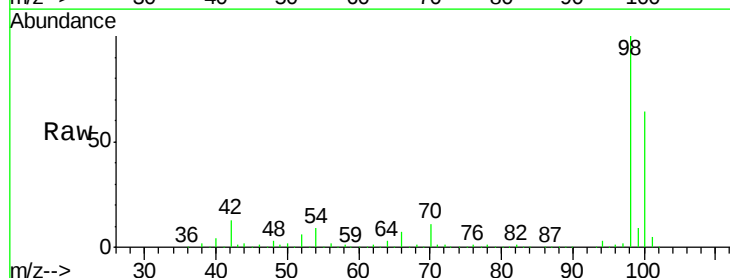
Acq: 27 Apr 2018 16:03

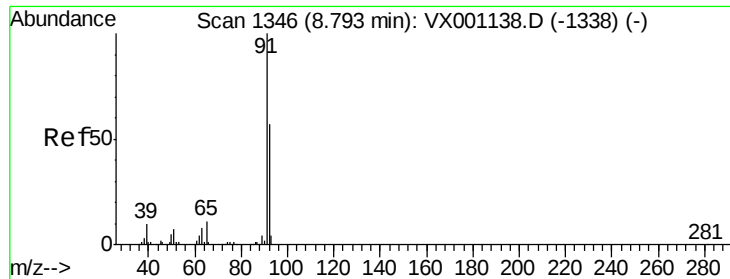
Tgt Ion: 98 Resp: 422534

Ion Ratio Lower Upper

98 100

100 63.9 51.8 77.6





#52

Toluene

Concen: 0.359 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

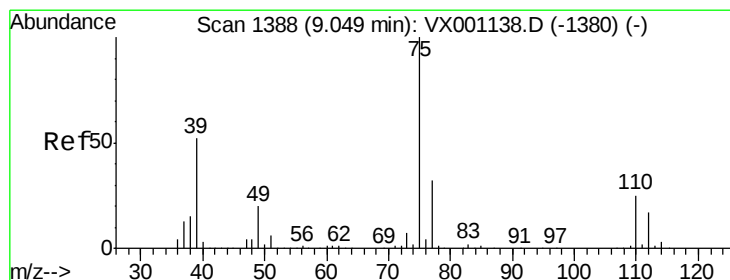
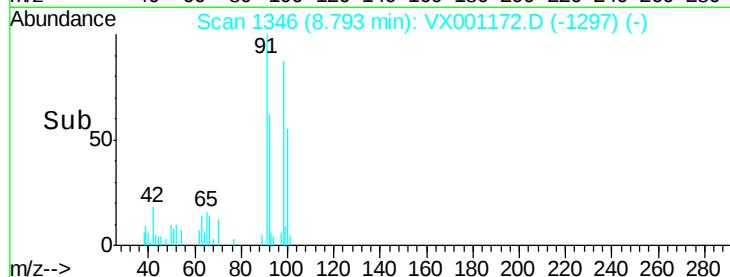
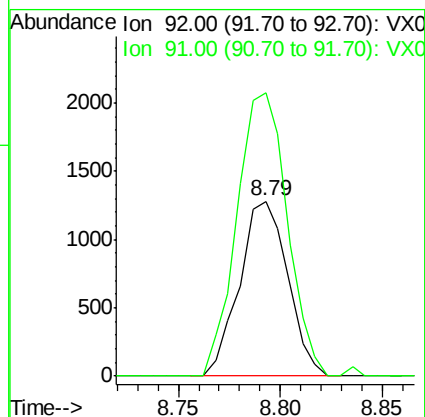
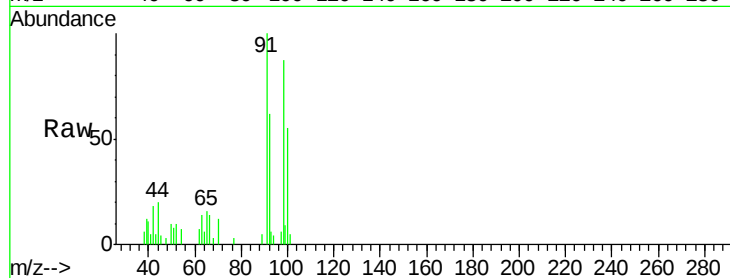
LF015MW045-180416DL

Tgt Ion: 92 Resp: 2104

Ion Ratio Lower Upper

92 100

91 168.7 139.8 209.6



#54

cis-1,3-Dichloropropene

Concen: 3.192 ug/l

RT: 9.06 min Scan# 1390

Delta R.T. 0.01 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

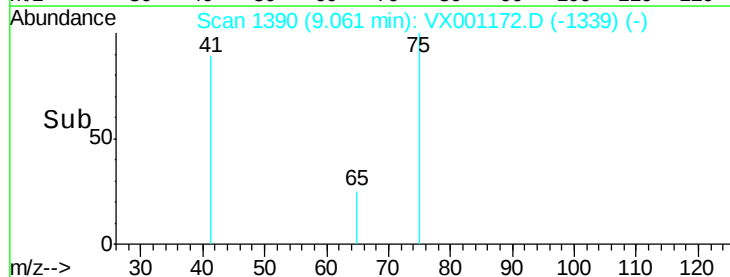
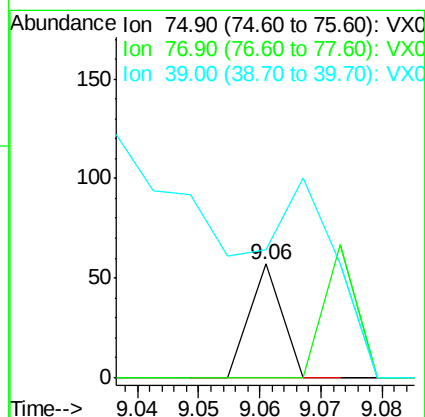
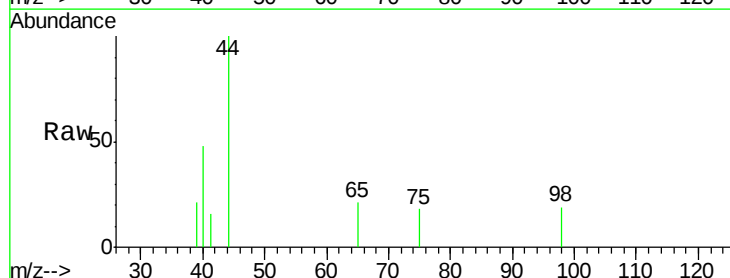
Tgt Ion: 75 Resp: 21

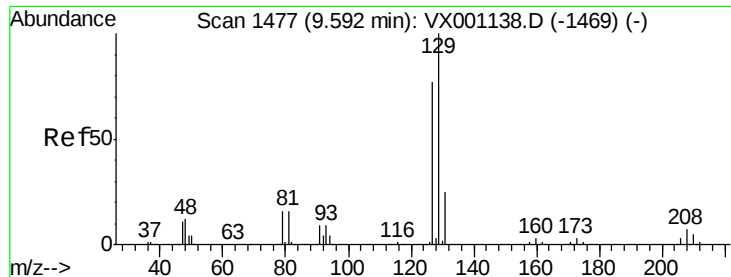
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

39 12.3 42.0 63.0#





#60

Dibromochloromethane

Concen: 3.353 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

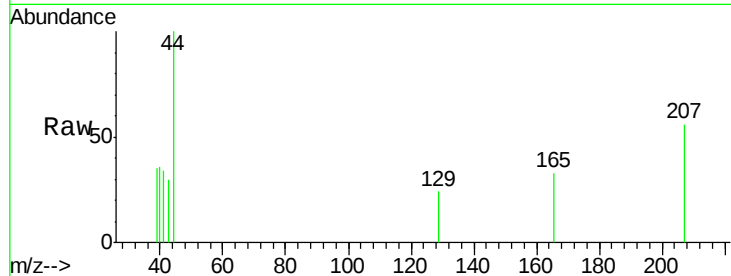
LF015MW045-180416DL

Tgt Ion: 129 Resp: 22

Ion Ratio Lower Upper

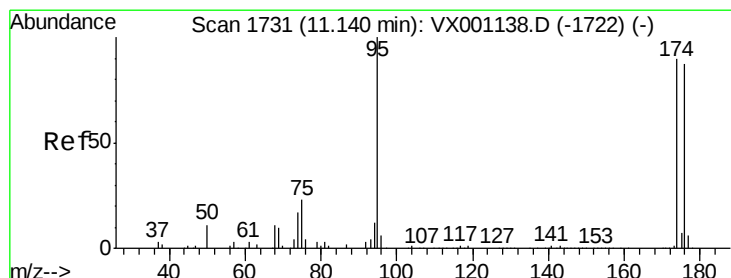
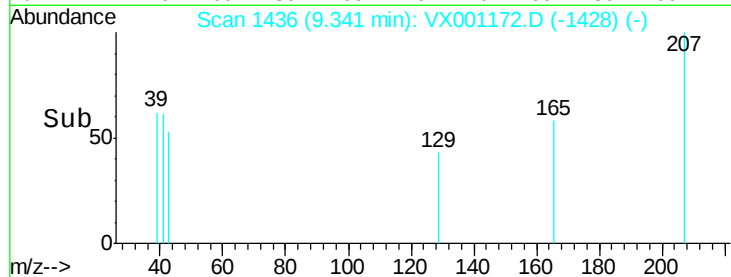
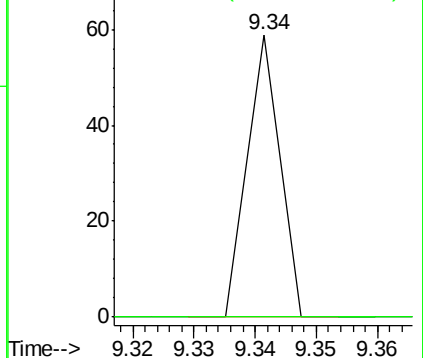
129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 42.615 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

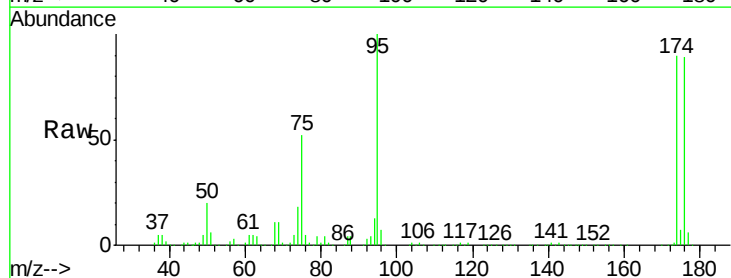
Tgt Ion: 95 Resp: 146218

Ion Ratio Lower Upper

95 100

174 100.6 0.0 194.4

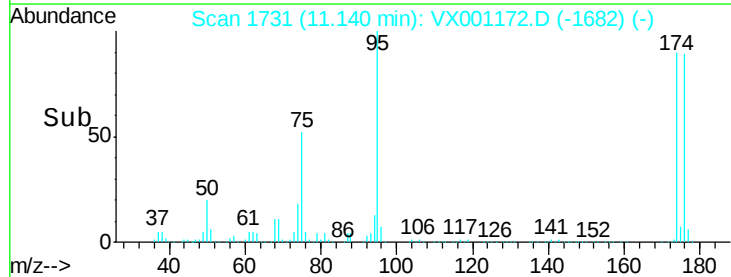
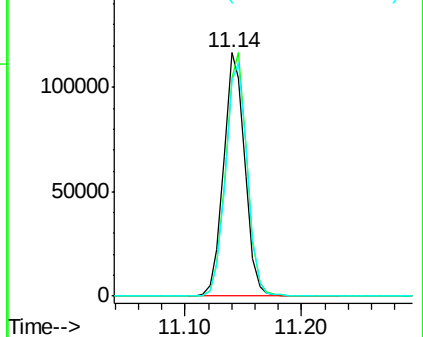
176 98.4 0.0 190.2

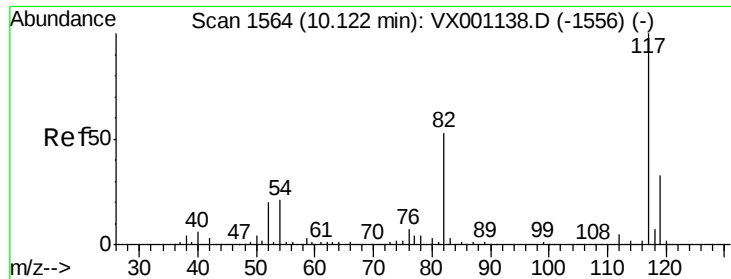


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

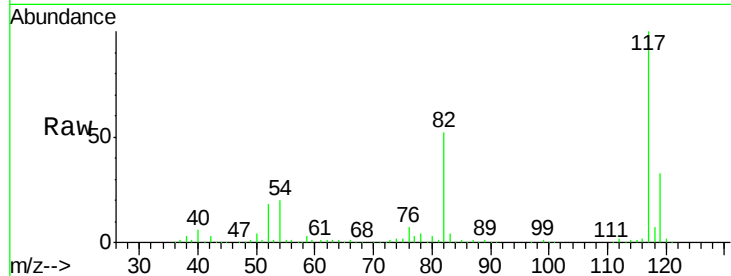




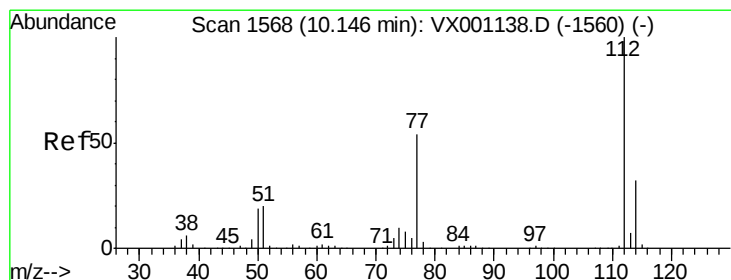
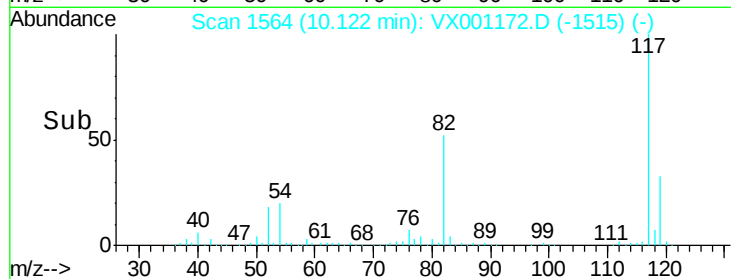
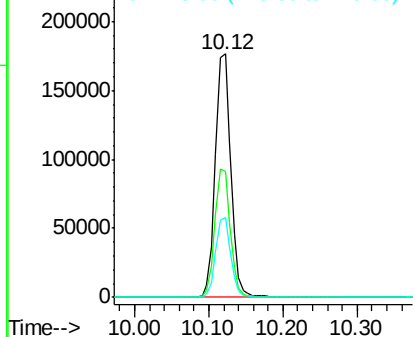
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX001172.D
Acq: 27 Apr 2018 16:03

Instrument :
MSVOA_X
ClientSampleId :
LF015MW045-180416DL

Tgt Ion:117 Resp: 251745
Ion Ratio Lower Upper
117 100
82 51.7 42.1 63.1
119 33.0 26.1 39.1

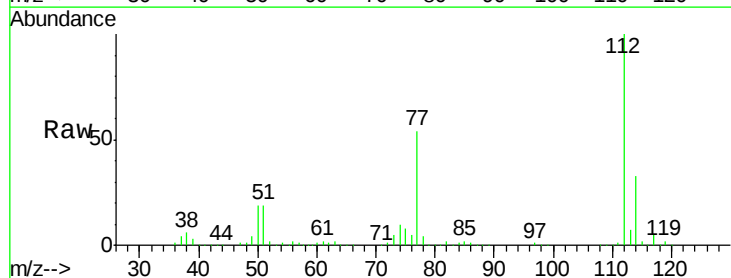


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

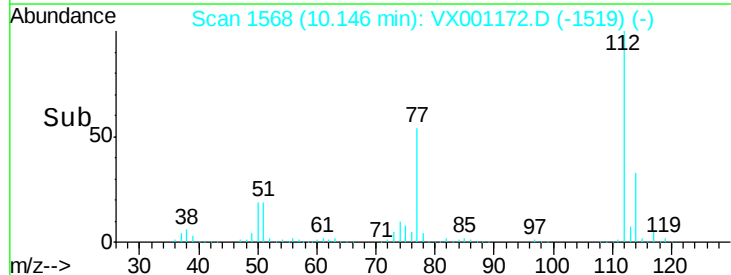
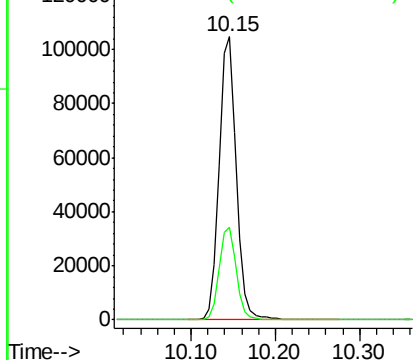


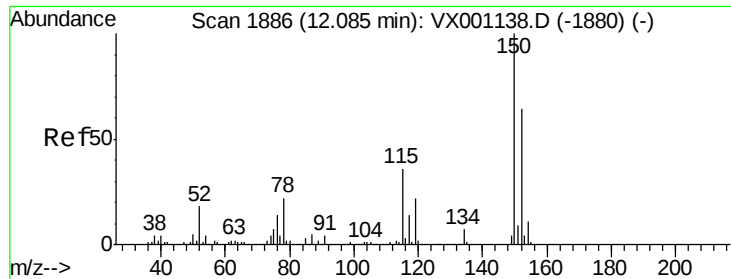
#65
Chlorobenzene
Concen: 22.415 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX001172.D
Acq: 27 Apr 2018 16:03

Tgt Ion:112 Resp: 147839
Ion Ratio Lower Upper
112 100
114 33.0 25.7 38.5



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: 50.000 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF015MW045-180416DL

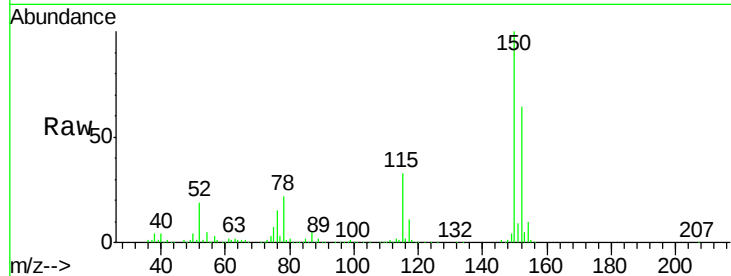
Tgt Ion:152 Resp: 144003

Ion Ratio Lower Upper

152 100

115 52.9 38.0 114.0

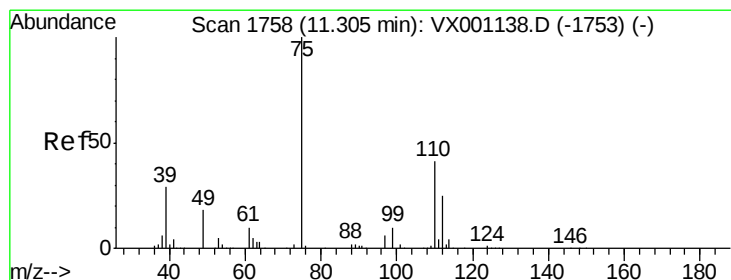
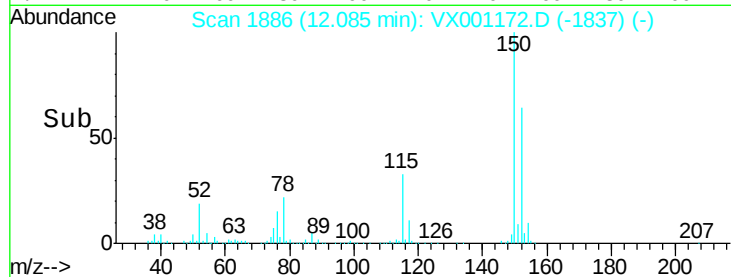
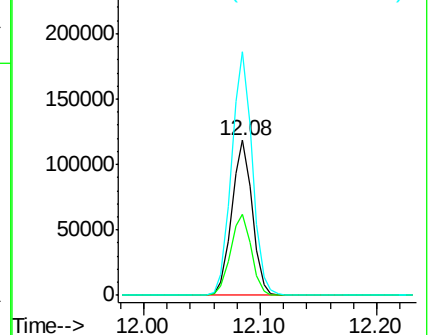
150 158.8 0.0 349.6



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: 26.102 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.17 min

Lab File: VX001172.D

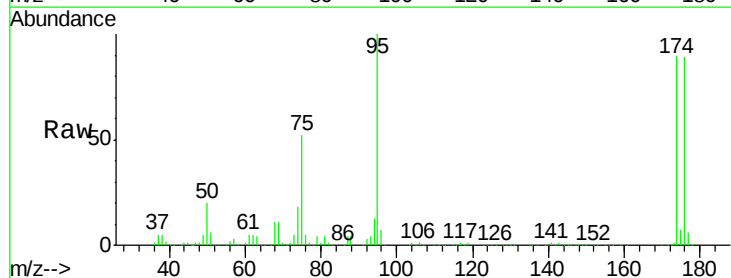
Acq: 27 Apr 2018 16:03

Tgt Ion: 75 Resp: 76539

Ion Ratio Lower Upper

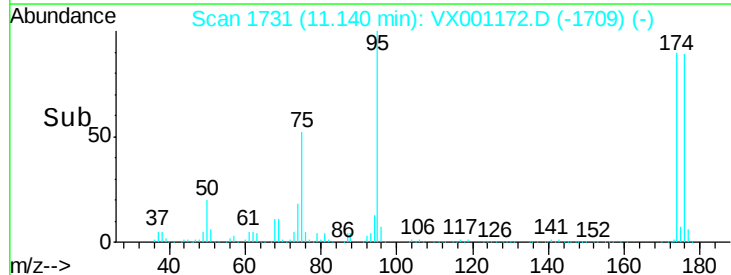
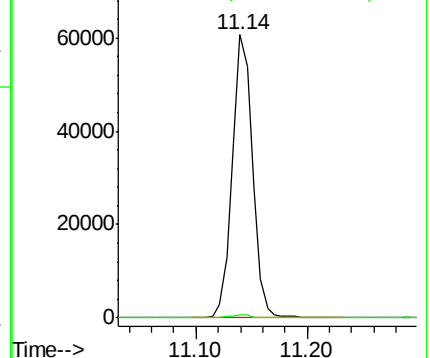
75 100

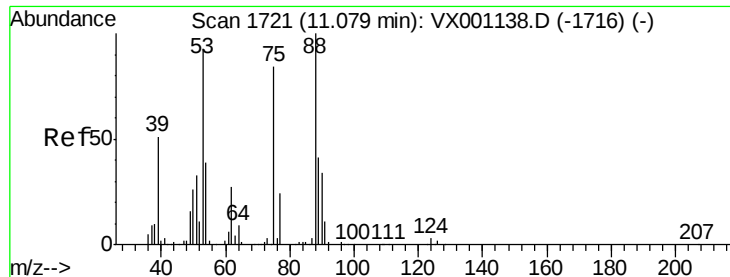
77 1.1 18.9 56.9#



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: 79.588 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF015MW045-180416DL

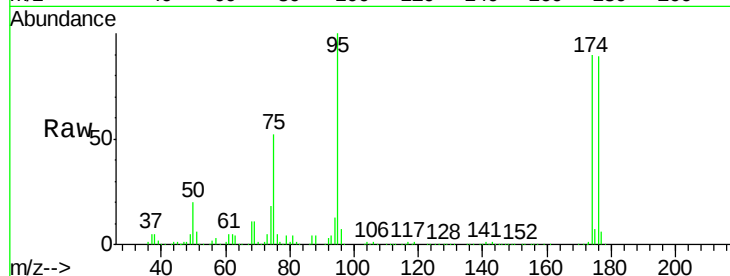
Tgt Ion: 75 Resp: 76539

Ion Ratio Lower Upper

75 100

53 0.0 87.9 131.9#

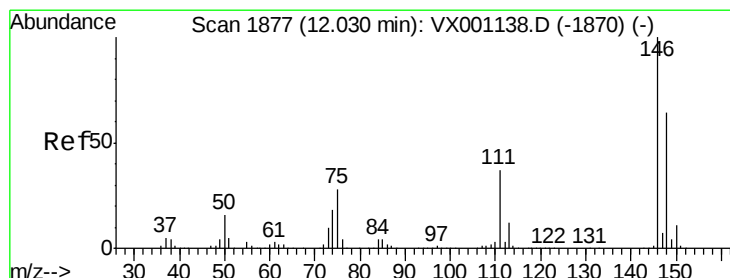
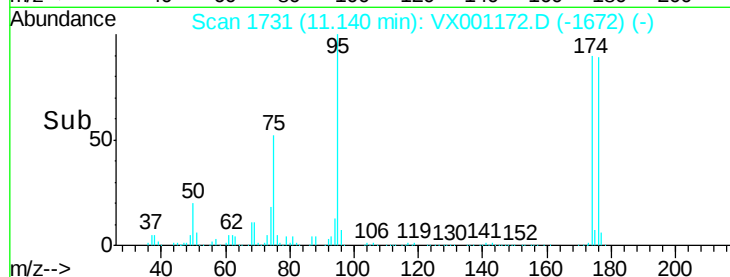
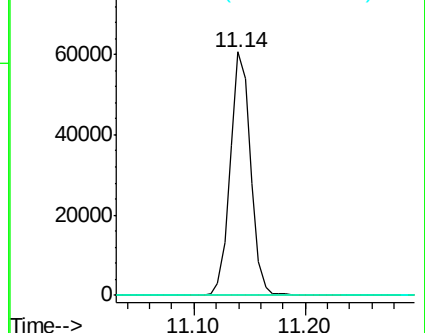
89 0.0 37.7 56.5#



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



#87

1,3-Dichlorobenzene

Concen: 0.521 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VX001172.D

Acq: 27 Apr 2018 16:03

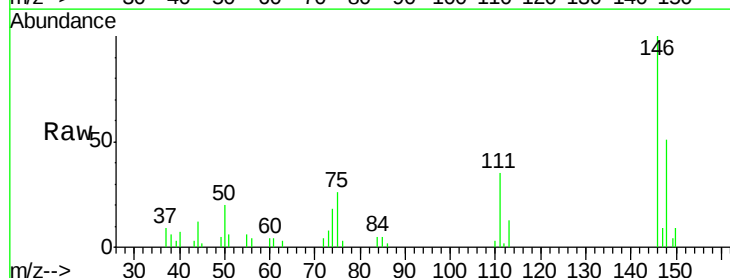
Tgt Ion: 146 Resp: 2603

Ion Ratio Lower Upper

146 100

111 40.5 18.6 56.0

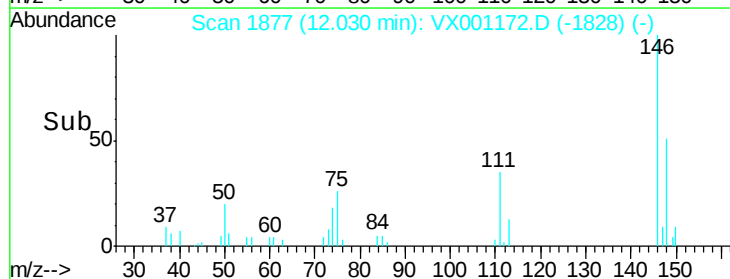
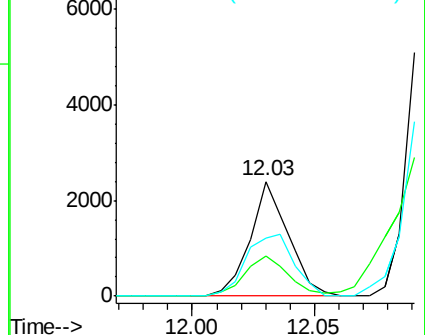
148 67.8 32.3 96.8

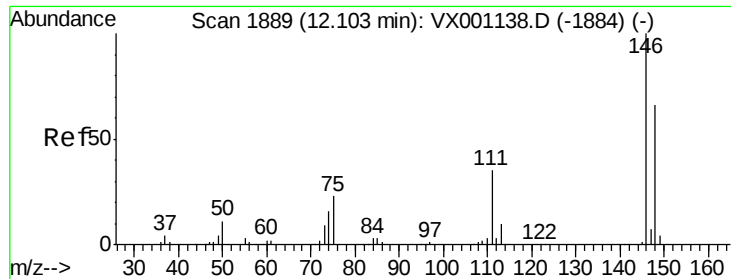


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

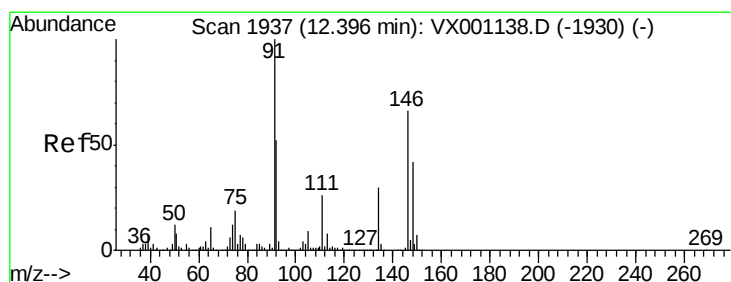
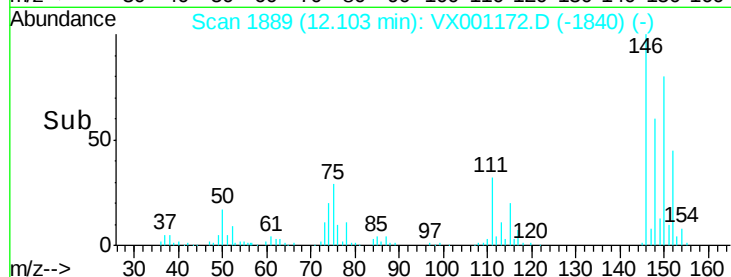
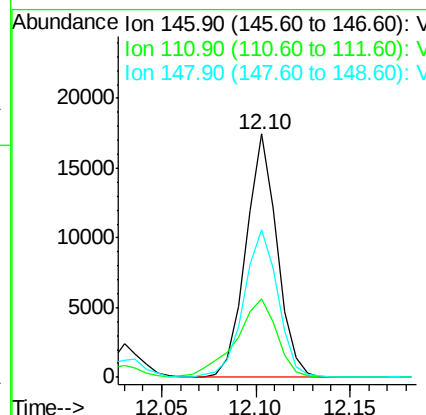
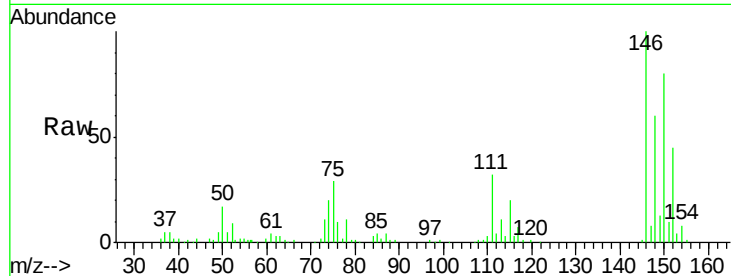




#88
 1,4-Dichlorobenzene
 Concen: 3.837 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VX001172.D
 Acq: 27 Apr 2018 16:03

Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW045-180416DL

Tgt Ion:146 Resp: 19978
 Ion Ratio Lower Upper
 146 100
 111 42.5 18.0 54.0
 148 66.6 32.5 97.5



#91
 1,2-Dichlorobenzene
 Concen: 10.779 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VX001172.D
 Acq: 27 Apr 2018 16:03

Tgt Ion:146 Resp: 54438
 Ion Ratio Lower Upper
 146 100
 111 37.4 19.1 57.3
 148 63.8 32.2 96.6

