

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042318\
 Data File : VX001051.D
 Acq On : 23 Apr 2018 12:04
 Operator : JC/MD
 Sample : J2349-14DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW163-180411DL

Quant Time: Apr 24 06:59:10 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	242197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	345522	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	316001	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	201172	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	159020	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	
35) Dibromofluoromethane	5.51	113	123856	47.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.02%	
50) Toluene-d8	8.72	98	479929	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.14	95	181266	44.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.66%	

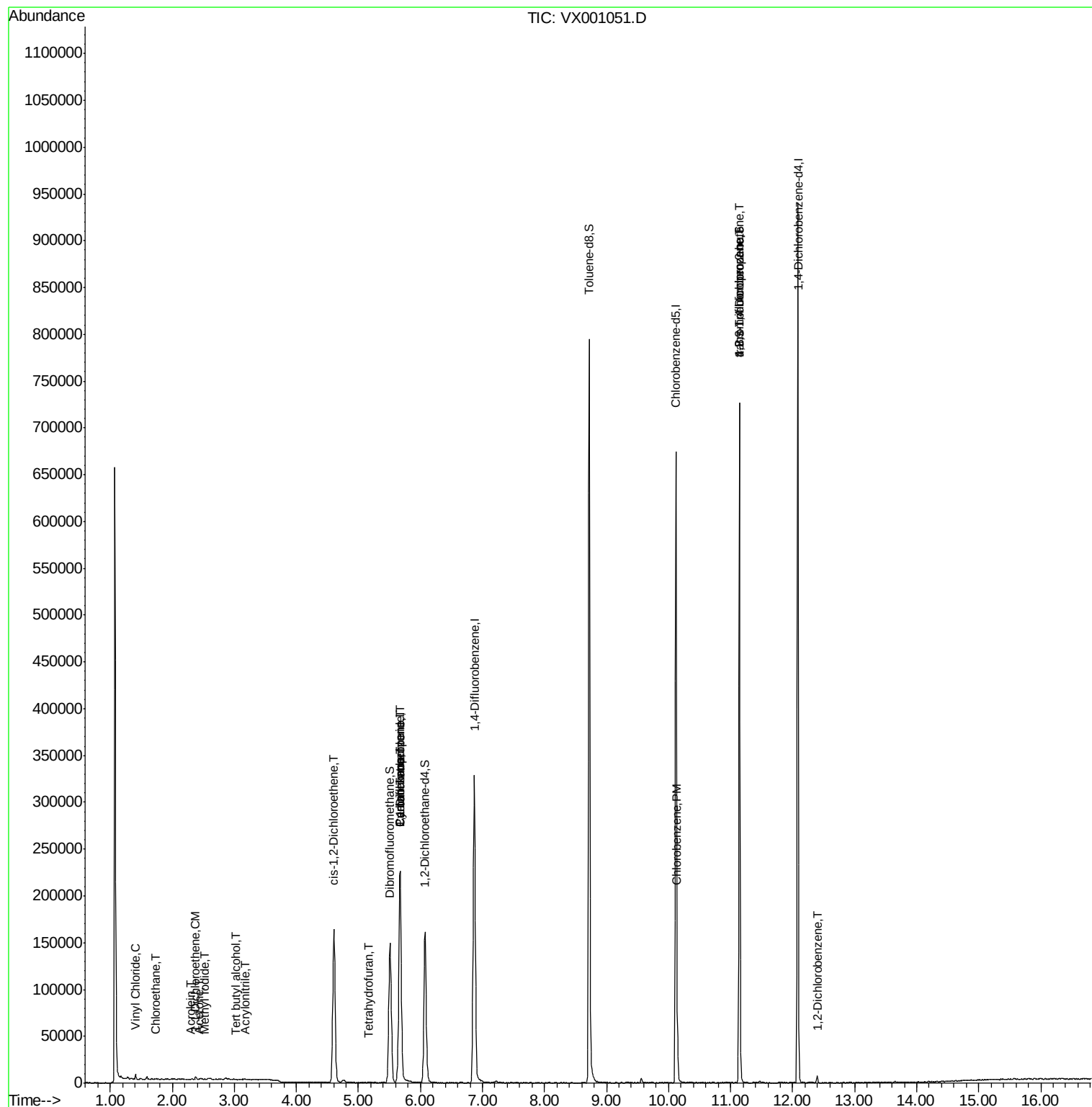
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	3621	1.25	ug/l	100
5) Bromomethane	1.65	94	335	Below Cal		86
6) Chloroethane	1.74	64	374	0.22	ug/l #	43
10) Methyl Iodide	2.52	142	76	7.63	ug/l #	41
11) Tert butyl alcohol	3.03	59	261	0.56	ug/l #	72
12) 1,1-Dichloroethene	2.38	96	793	0.34	ug/l	96
13) Acrolein	2.30	56	180	12.13	ug/l #	52
15) Acrylonitrile	3.16	53	337	0.27	ug/l #	83
16) Acetone	2.44	43	692	0.60	ug/l #	82
20) Methylene Chloride	2.86	84	557	Below Cal	#	81
27) cis-1,2-Dichloroethene	4.60	96	103545	35.38	ug/l	89
29) Tetrahydrofuran	5.17	42	338	0.30	ug/l #	57
31) Cyclohexane	5.67	56	4338	1.00	ug/l #	7
36) 1,1-Dichloropropene	5.67	75	15180	3.74	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21491	5.23	ug/l #	16
65) Chlorobenzene	10.14	112	15007	1.78	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	92318	26.45	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	92318	79.14	ug/l #	8
91) 1,2-Dichlorobenzene	12.40	146	2512	0.36	ug/l	99

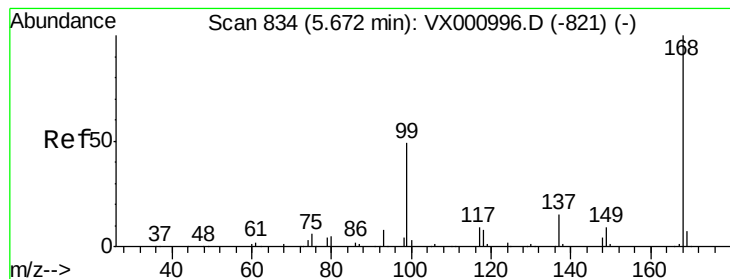
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX001051.D

Acq: 23 Apr 2018 12:04

Instrument :

MSVOA_X

ClientSampleId :

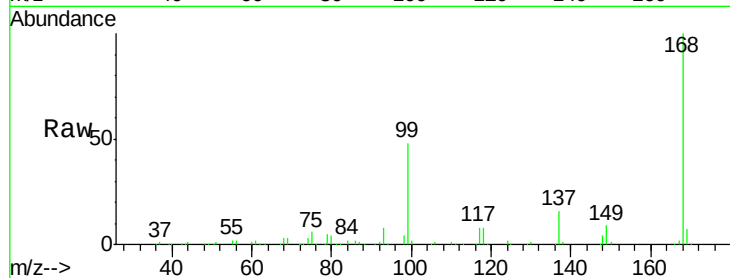
LF012RW163-180411DL

Tgt Ion:168 Resp: 242197

Ion Ratio Lower Upper

168 100

99 48.1 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

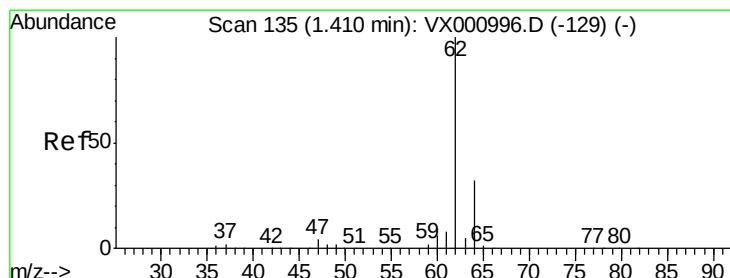
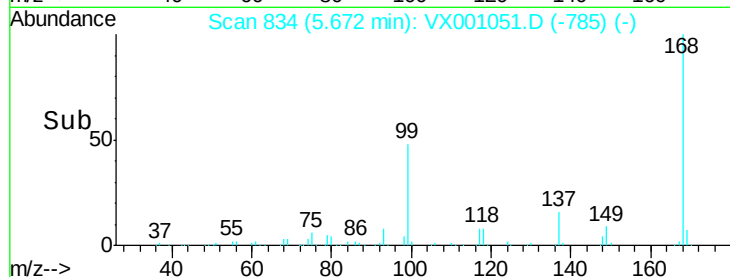
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.25 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX001051.D

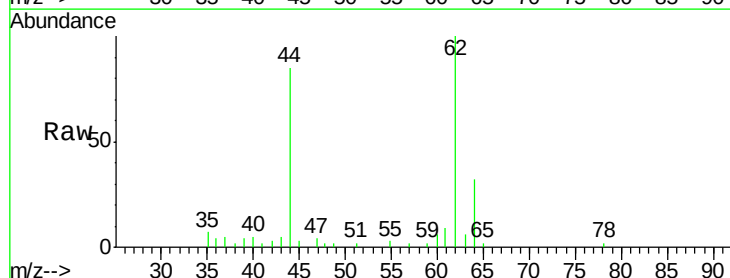
Acq: 23 Apr 2018 12:04

Tgt Ion: 62 Resp: 3621

Ion Ratio Lower Upper

62 100

64 31.9 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

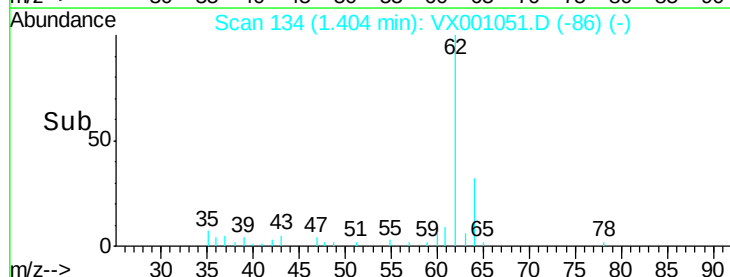
3000

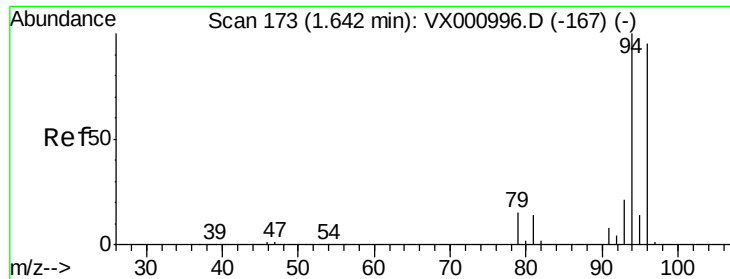
2000

1000

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

Instrument :

MSVOA_X

ClientSampleId :

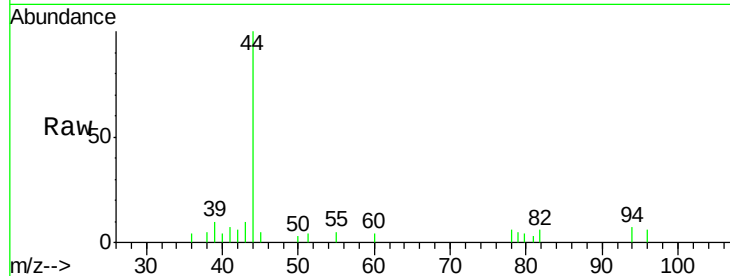
LF012RW163-180411DL

Tgt Ion: 94 Resp: 335

Ion Ratio Lower Upper

94 100

96 81.3 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

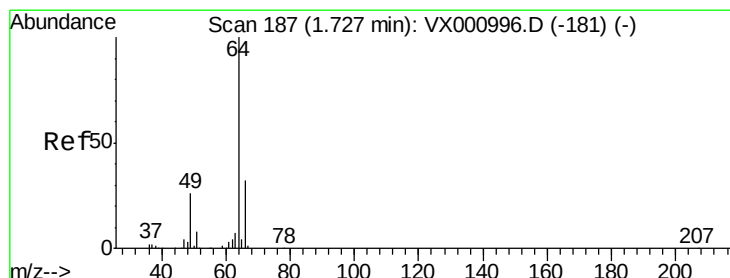
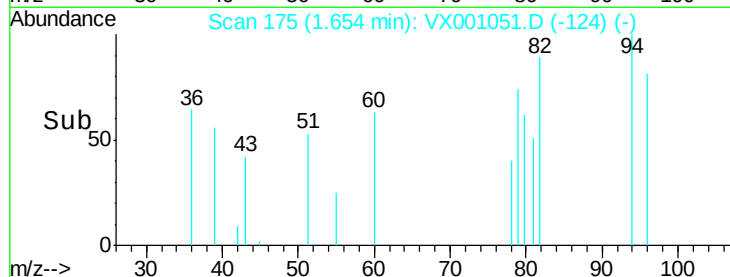
1.65

100

50

0

Time-->



#6

Chloroethane

Concen: 0.22 ug/l

RT: 1.74 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX001051.D

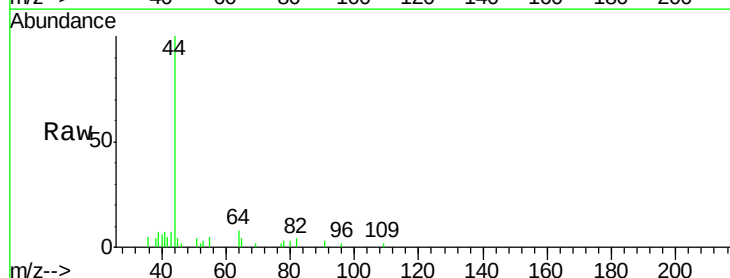
Acq: 23 Apr 2018 12:04

Tgt Ion: 64 Resp: 374

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

250

200

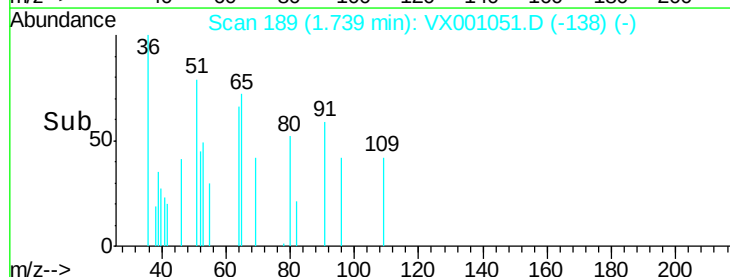
150

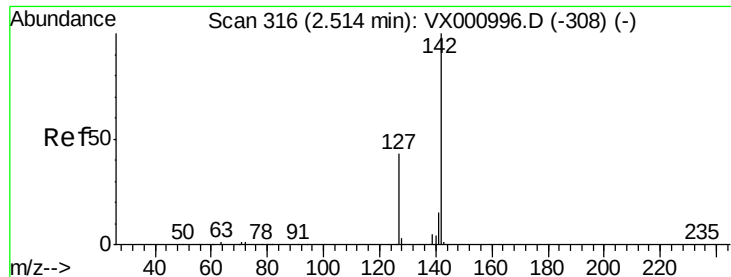
100

50

0

Time-->

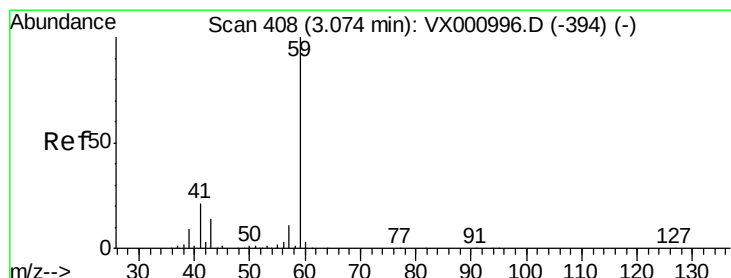
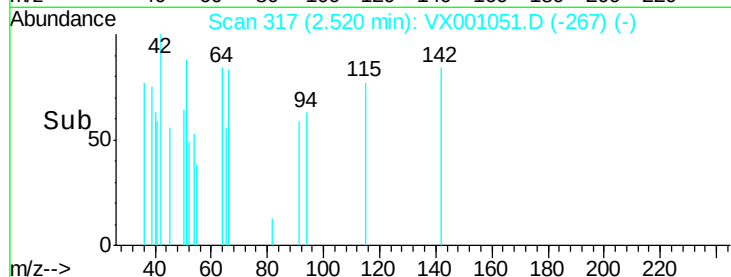
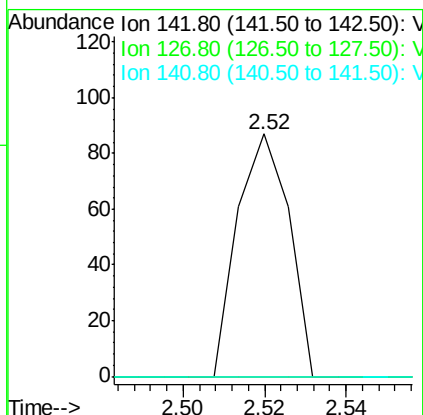
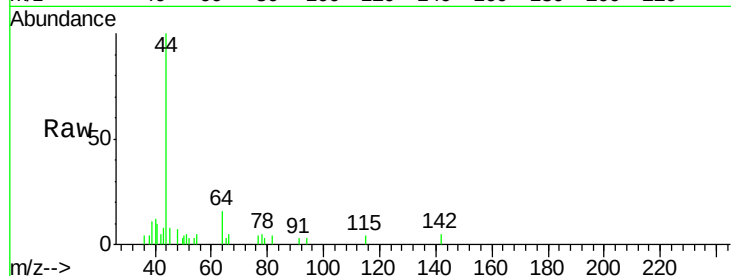




#10
Methyl Iodide
Concen: 7.63 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

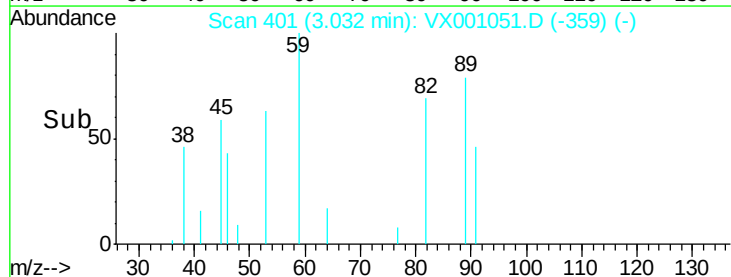
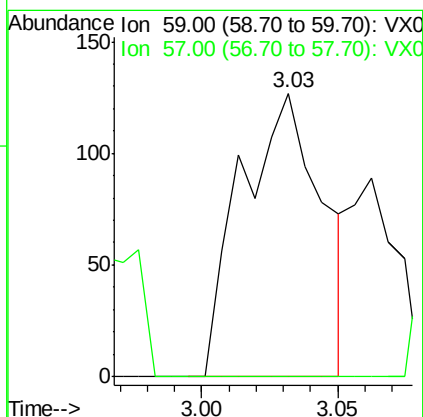
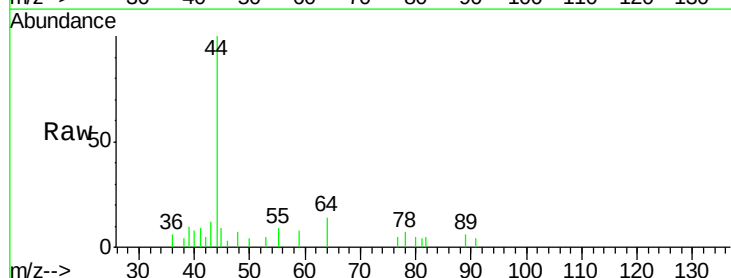
Instrument :
MSVOA_X
ClientSampleId :
LF012RW163-180411DL

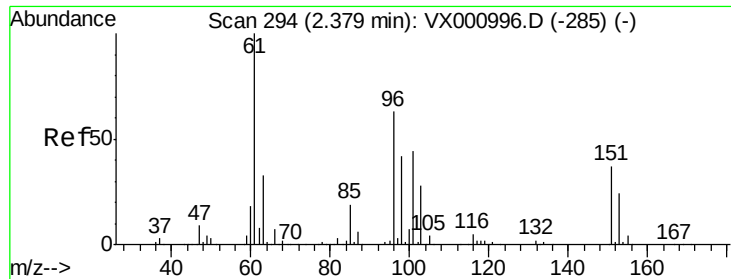
Tgt Ion: 142 Resp: 76
Ion Ratio Lower Upper
142 100
127 0.0 34.0 51.0#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.56 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.04 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

Tgt Ion: 59 Resp: 261
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

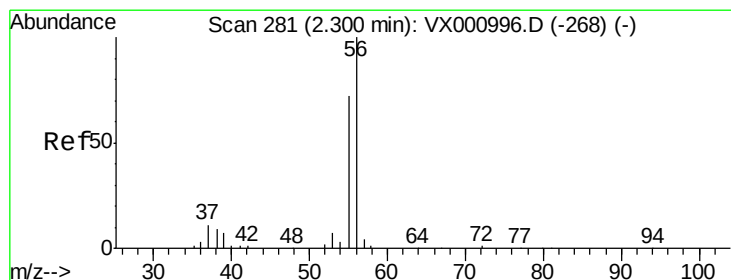
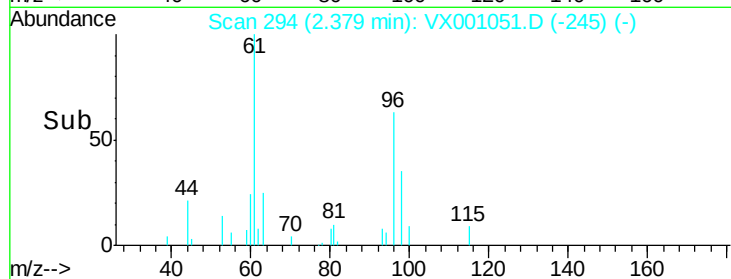
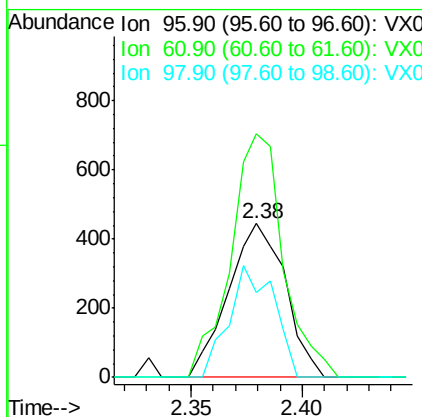
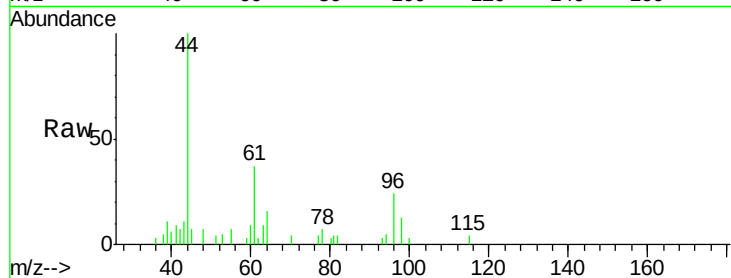




#12
 1,1-Dichloroethene
 Concen: 0.34 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.00 min
 Lab File: VX001051.D
 Acq: 23 Apr 2018 12:04

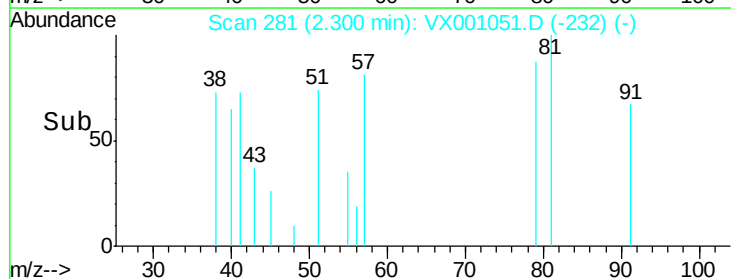
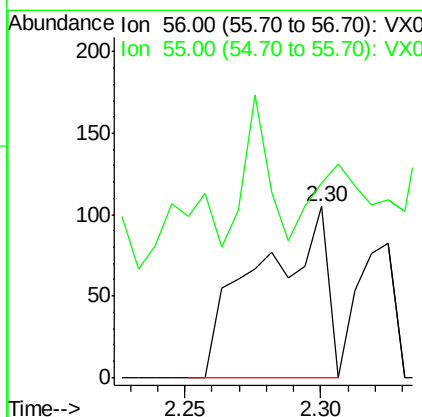
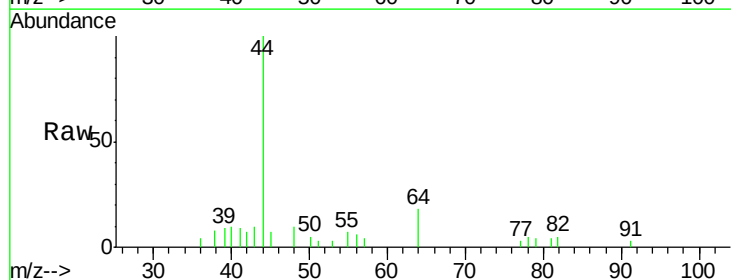
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW163-180411DL

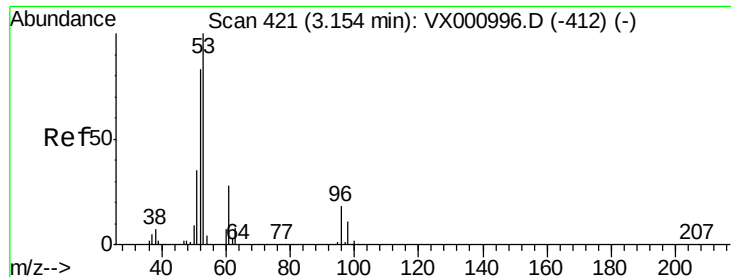
Tgt Ion: 96 Resp: 793
 Ion Ratio Lower Upper
 96 100
 61 158.6 126.4 189.6
 98 55.4 52.6 78.8



#13
 Acrolein
 Concen: 12.13 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.00 min
 Lab File: VX001051.D
 Acq: 23 Apr 2018 12:04

Tgt Ion: 56 Resp: 180
 Ion Ratio Lower Upper
 56 100
 55 32.2 57.4 86.2#





#15

Acrylonitrile

Concen: 0.27 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

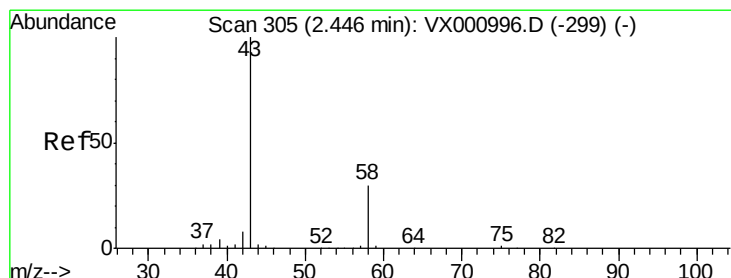
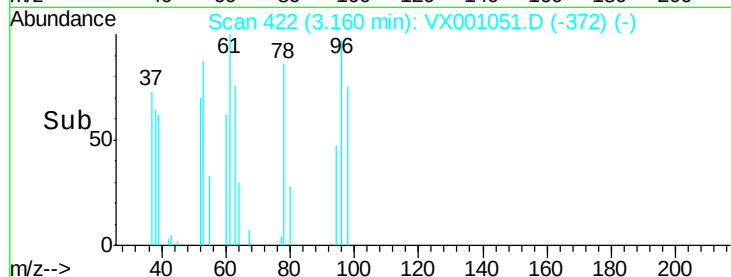
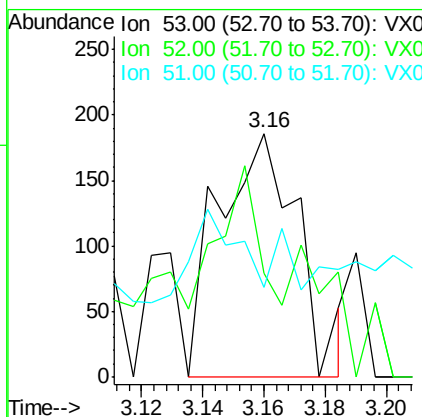
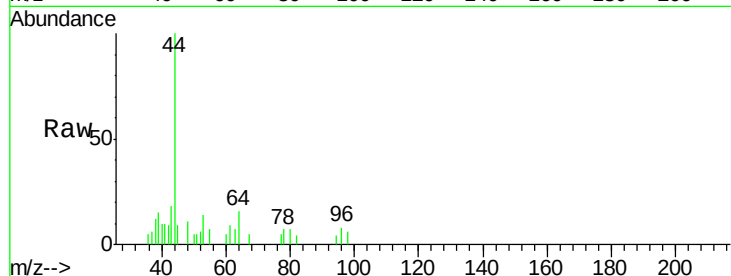
Instrument :

MSVOA_X

ClientSampleId :

LF012RW163-180411DL

Tgt Ion:	53	Resp:	337
Ion	Ratio	Lower	Upper
53	100		
52	96.4	66.4	99.6
51	22.6	29.0	43.6#



#16

Acetone

Concen: 0.60 ug/l

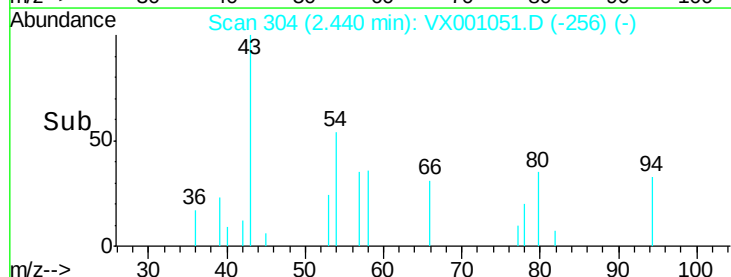
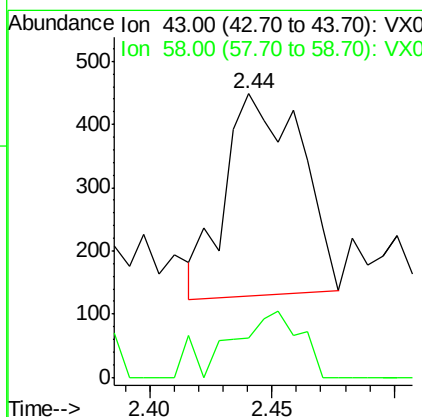
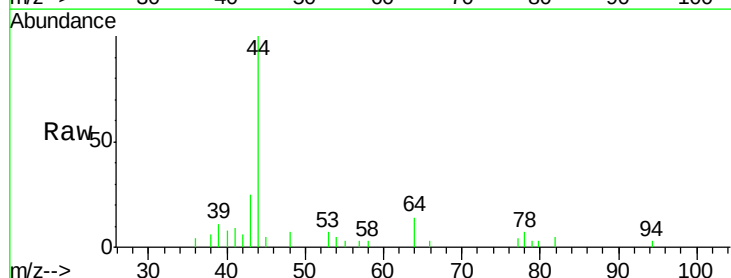
RT: 2.44 min Scan# 304

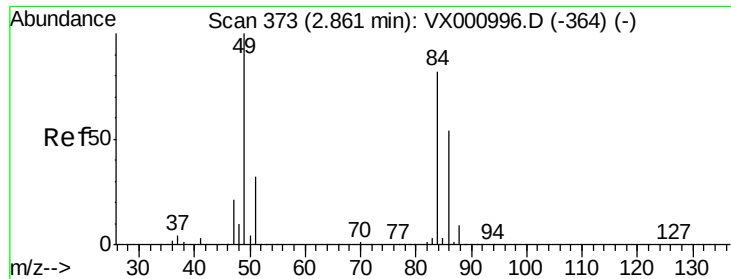
Delta R.T. -0.01 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

Tgt Ion:	43	Resp:	692
Ion	Ratio	Lower	Upper
43	100		
58	19.9	23.7	35.5#

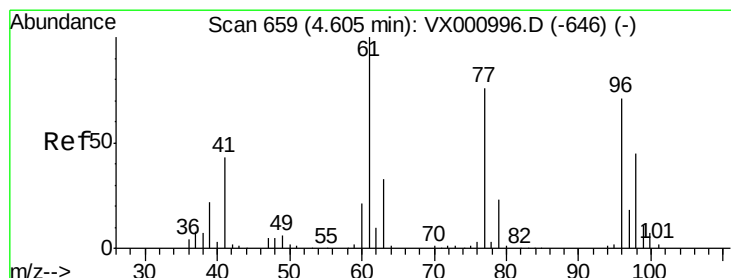
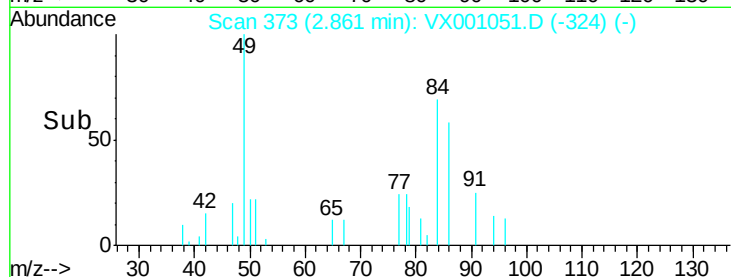
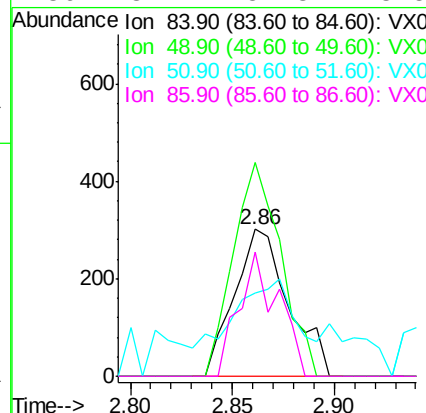
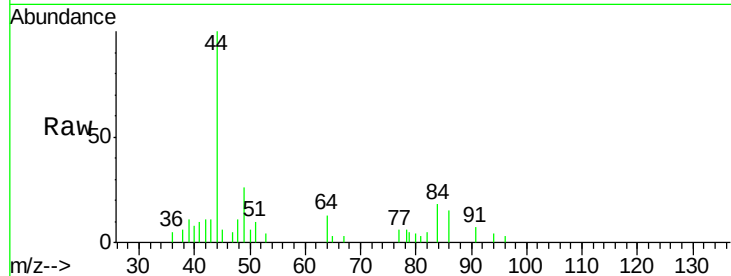




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

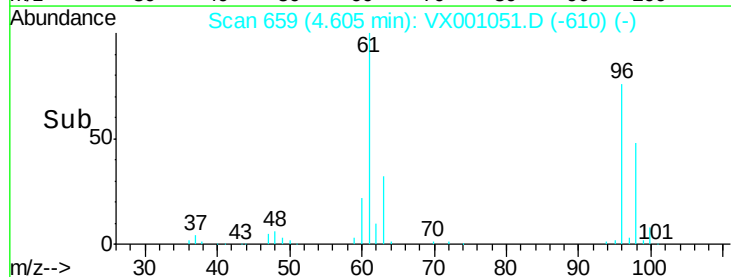
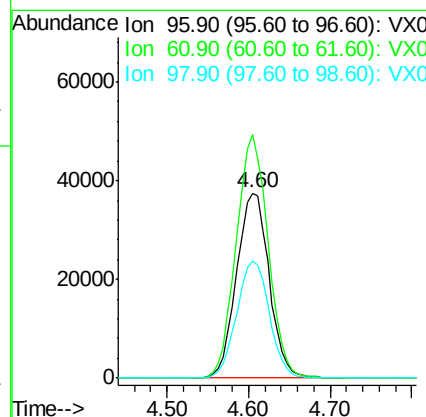
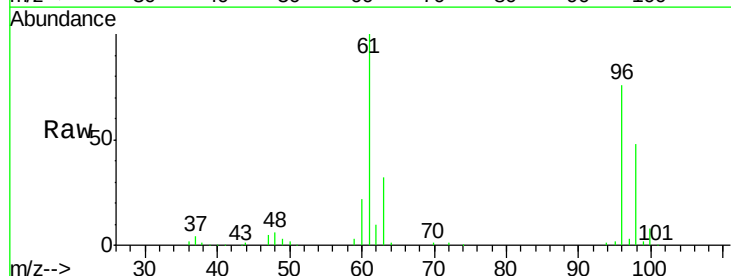
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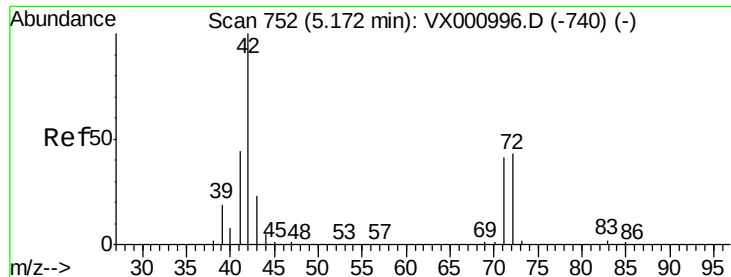
Tgt Ion: 84 Resp: 557
Ion Ratio Lower Upper
84 100
49 145.5 97.1 145.7
51 37.5 30.8 46.2
86 84.7 52.3 78.5#



#27
cis-1,2-Dichloroethene
Concen: 35.38 ug/l
RT: 4.60 min Scan# 659
Delta R.T. 0.00 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

Tgt Ion: 96 Resp: 103545
Ion Ratio Lower Upper
96 100
61 129.2 0.0 297.0
98 63.6 0.0 130.0





#29

Tetrahydrofuran

Concen: 0.30 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

Instrument :

MSVOA_X

ClientSampleId :

LF012RW163-180411DL

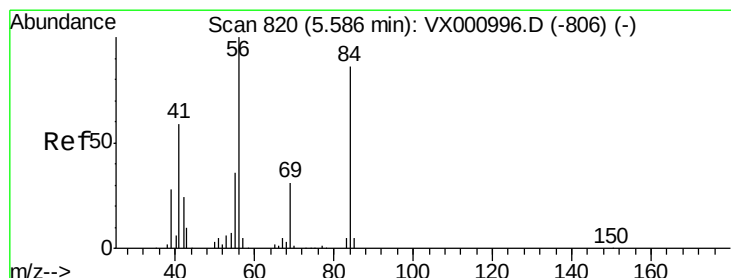
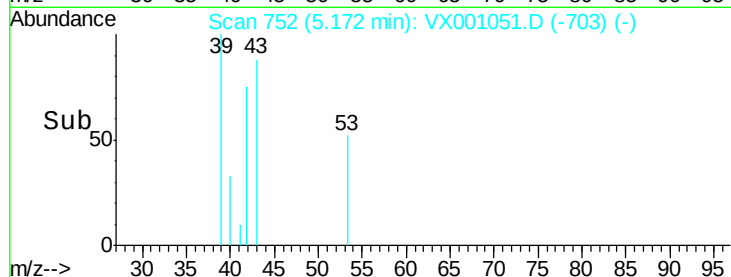
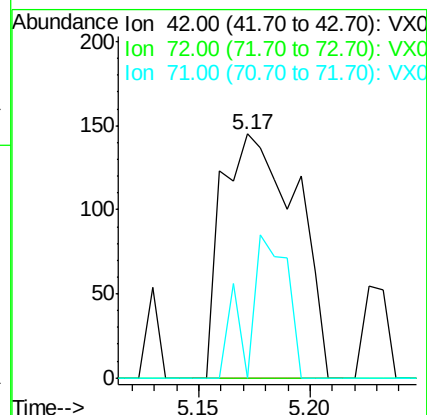
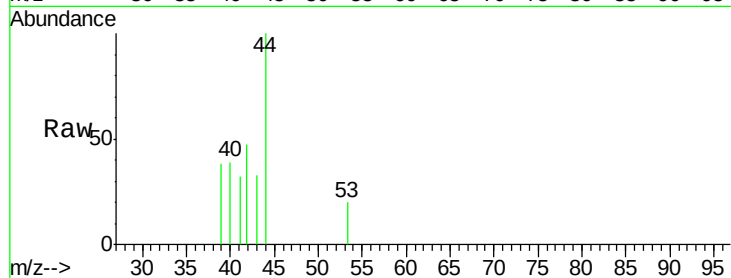
Tgt Ion: 42 Resp: 338

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

71 30.8 32.6 49.0#



#31

Cyclohexane

Concen: 1.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.08 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

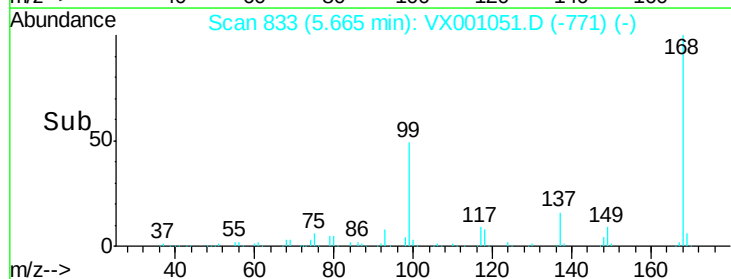
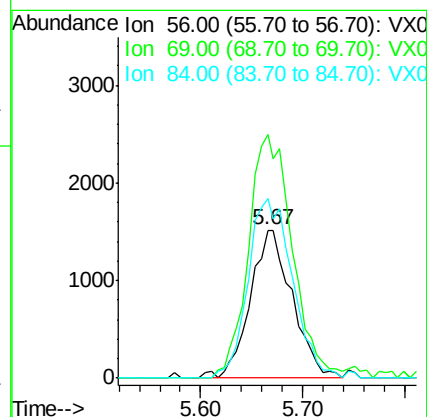
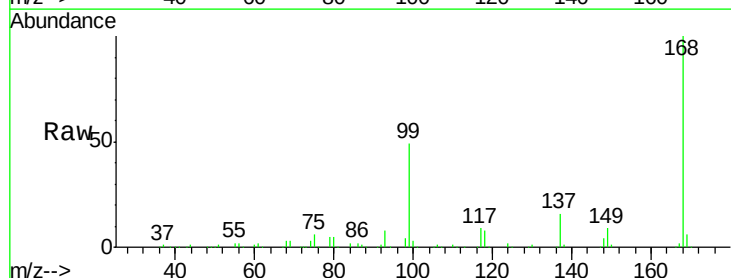
Tgt Ion: 56 Resp: 4338

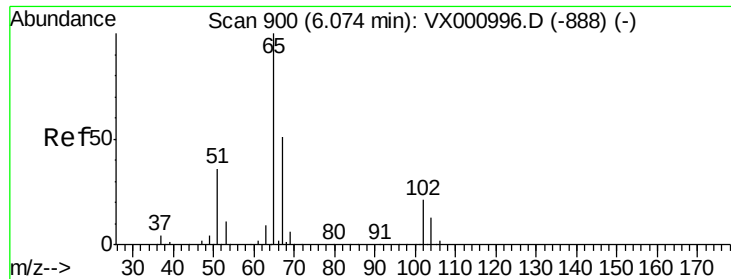
Ion Ratio Lower Upper

56 100

69 164.9 24.6 36.8#

84 121.6 69.0 103.6#

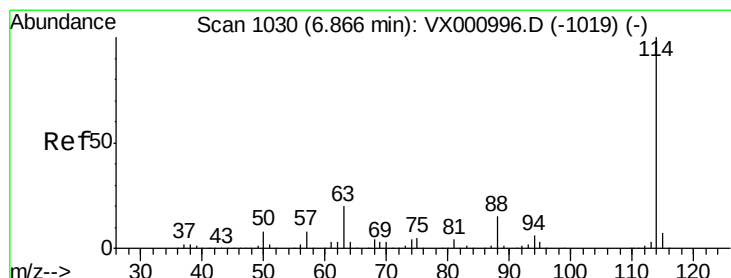
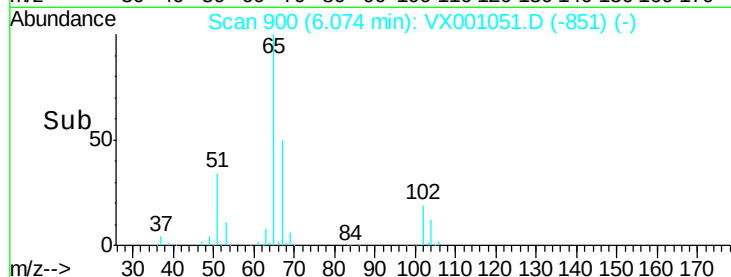
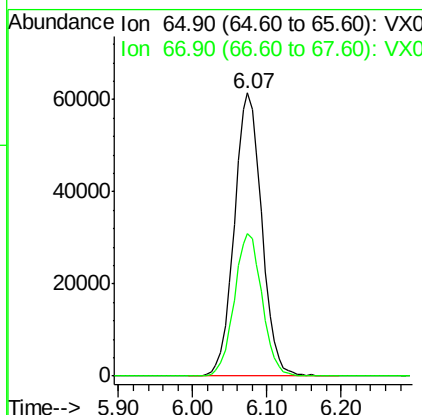
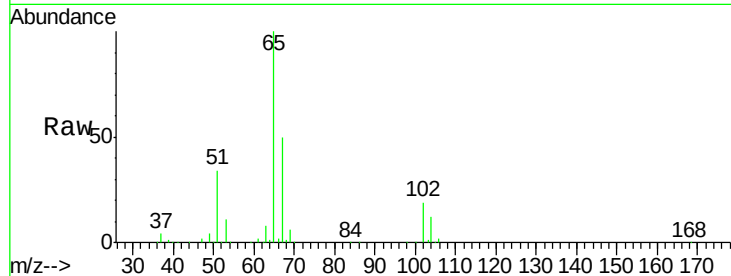




#33
 1,2-Dichloroethane-d4
 Concen: 51.80 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001051.D
 Acq: 23 Apr 2018 12:04

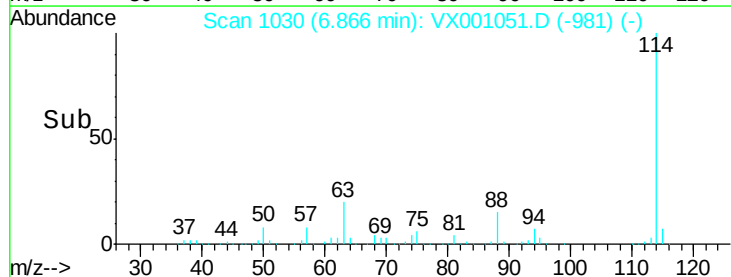
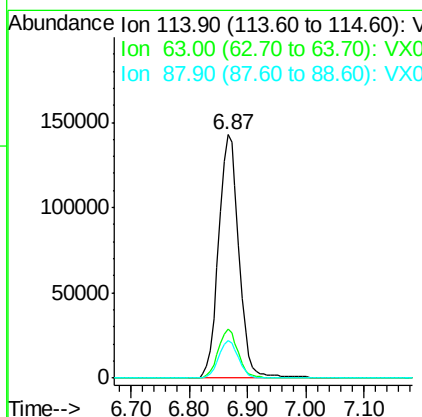
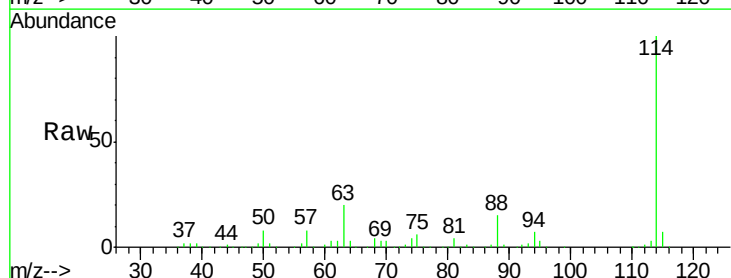
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW163-180411DL

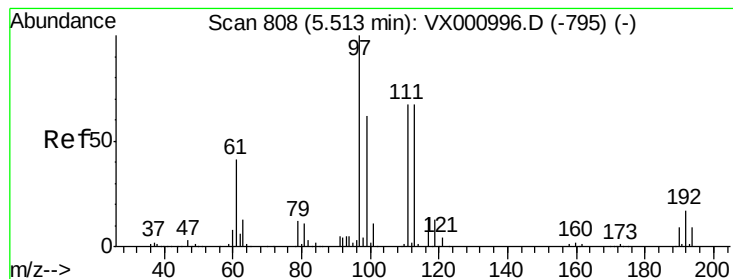
Tgt Ion: 65 Resp: 159020
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX001051.D
 Acq: 23 Apr 2018 12:04

Tgt Ion: 114 Resp: 345522
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.4
 88 15.4 0.0 29.8





#35

Dibromofluoromethane

Concen: 47.01 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

Instrument :

MSVOA_X

ClientSampleId :

LF012RW163-180411DL

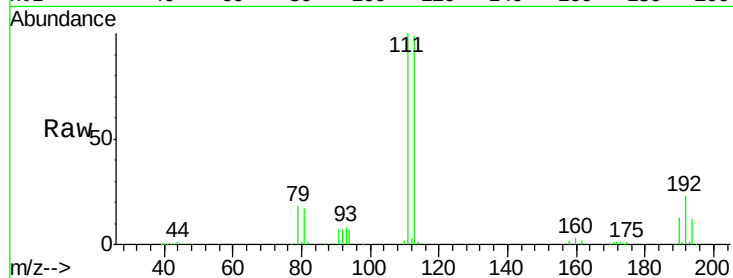
Tgt Ion:113 Resp: 123856

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

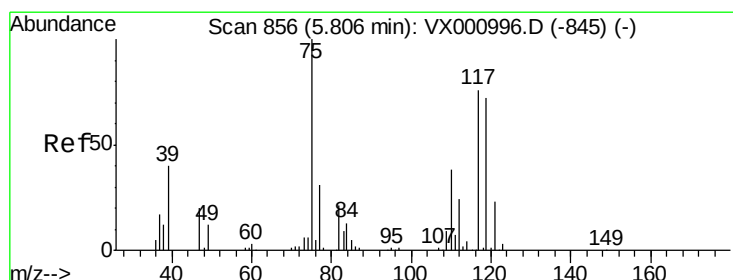
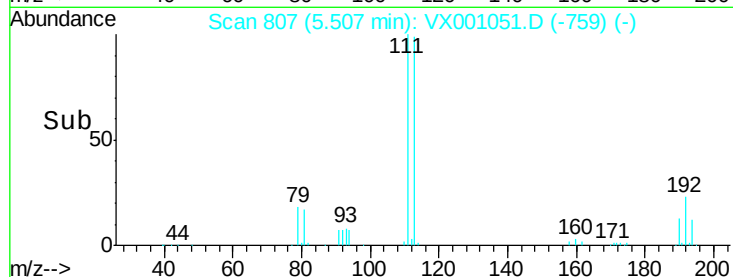
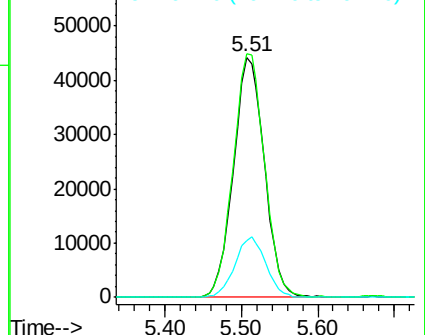
192 25.1 20.4 30.6



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: 3.74 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

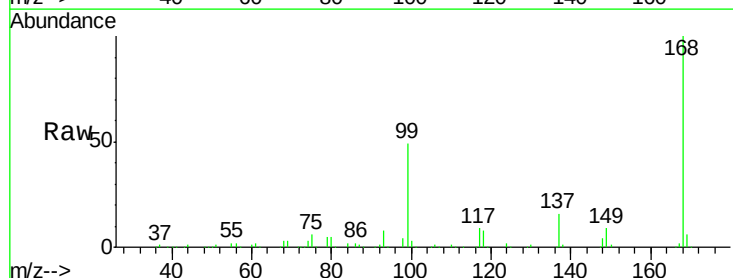
Tgt Ion: 75 Resp: 15180

Ion Ratio Lower Upper

75 100

110 9.6 18.7 56.1#

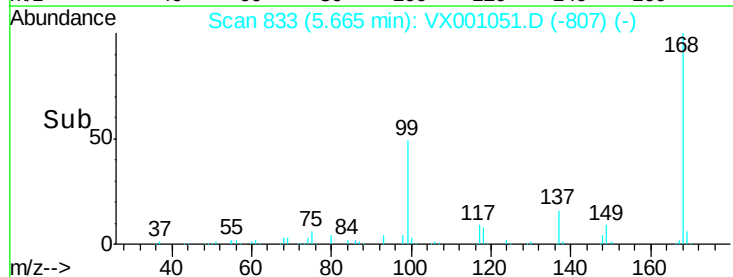
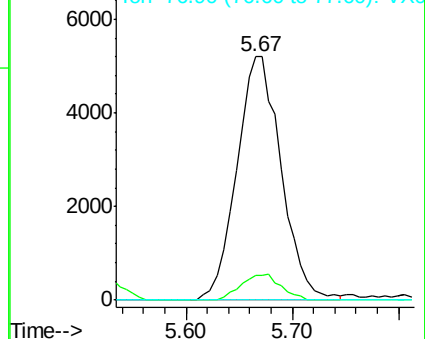
77 0.0 25.0 37.4#

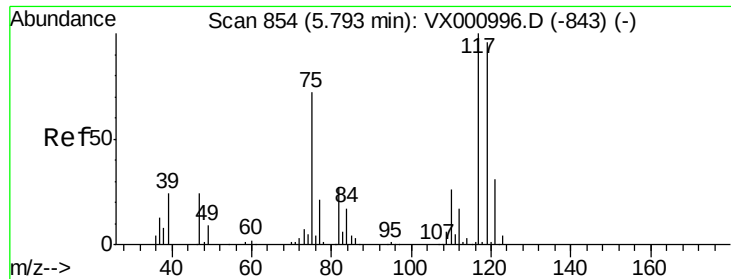


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.23 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

Instrument :

MSVOA_X

ClientSampleId :

LF012RW163-180411DL

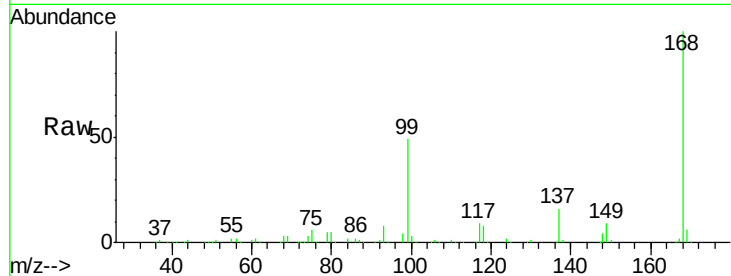
Tgt Ion:117 Resp: 21491

Ion Ratio Lower Upper

117 100

119 5.3 76.5 114.7#

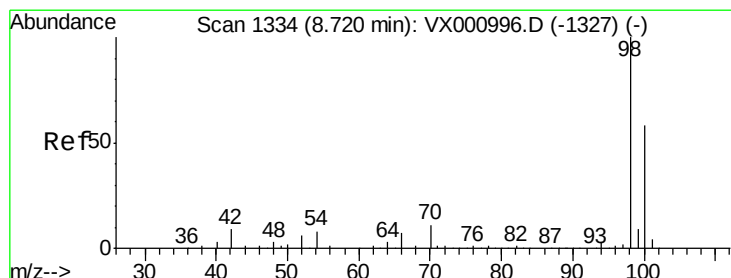
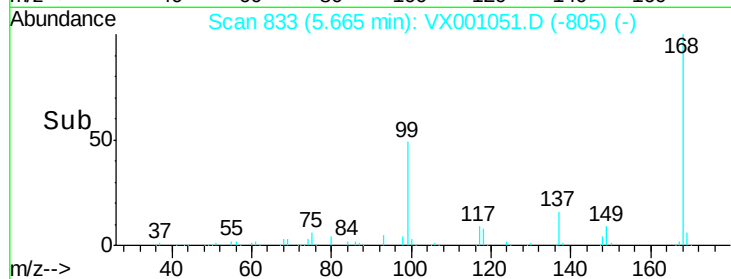
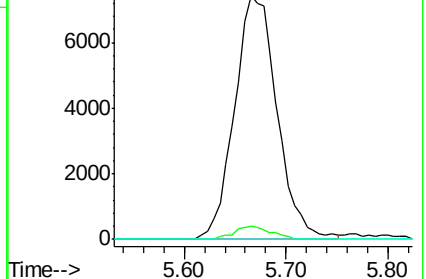
121 0.0 24.5 36.7#



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: 49.26 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001051.D

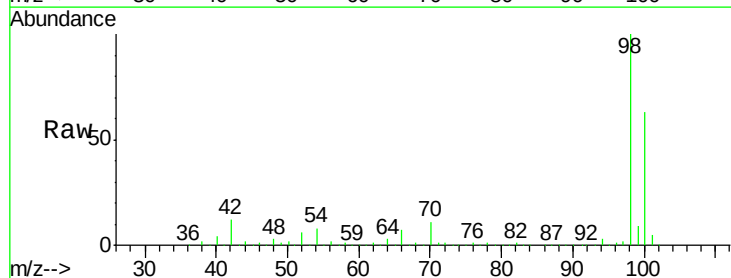
Acq: 23 Apr 2018 12:04

Tgt Ion: 98 Resp: 479929

Ion Ratio Lower Upper

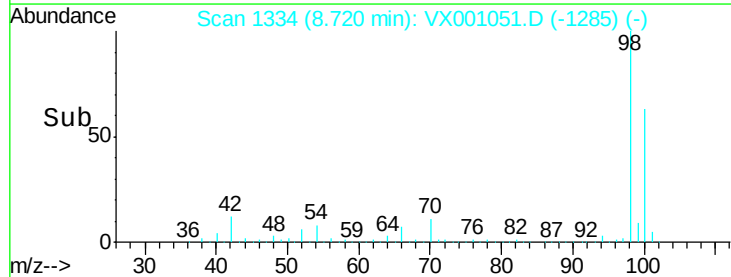
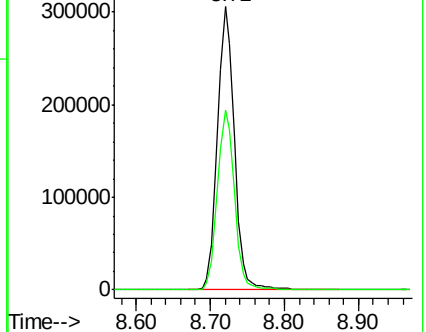
98 100

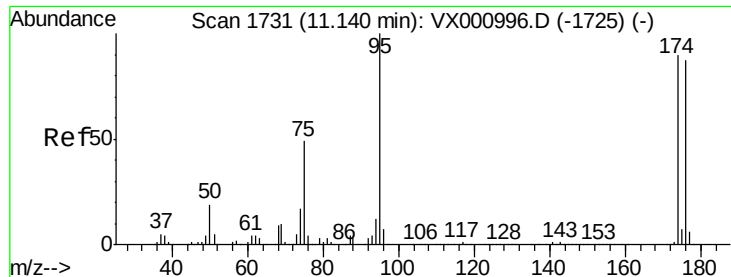
100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

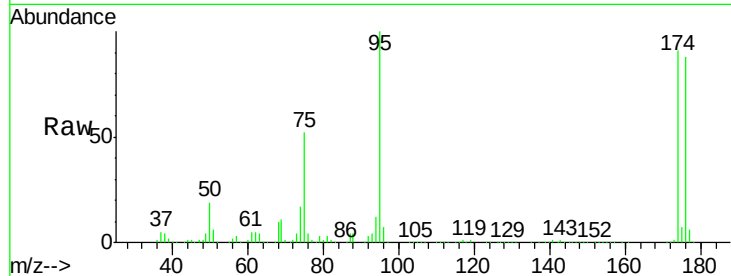




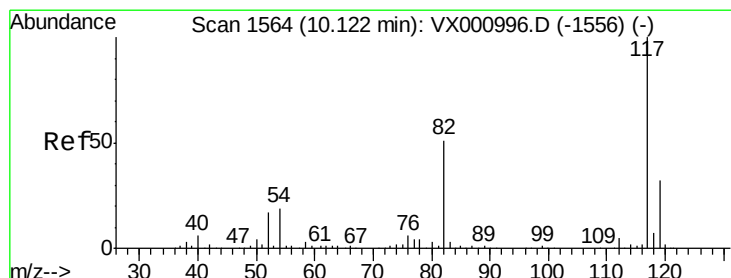
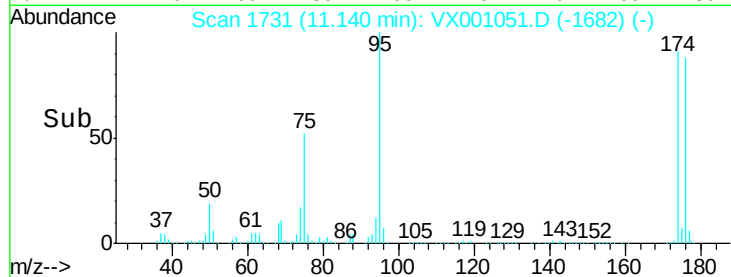
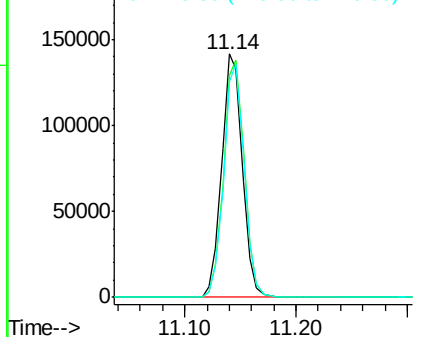
#62
4-Bromofluorobenzene
Concen: 44.33 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

Instrument :
MSVOA_X
ClientSampleId :
LF012RW163-180411DL

Tgt Ion: 95 Resp: 181266
Ion Ratio Lower Upper
95 100
174 97.7 0.0 198.4
176 94.8 0.0 192.0

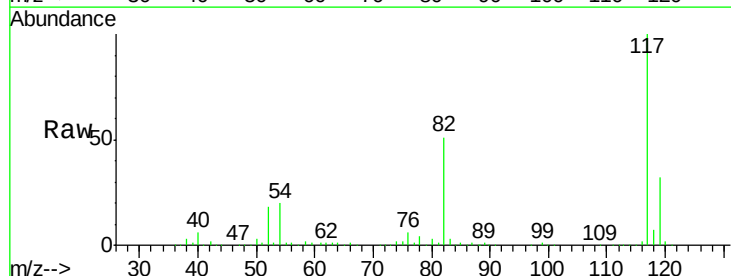


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

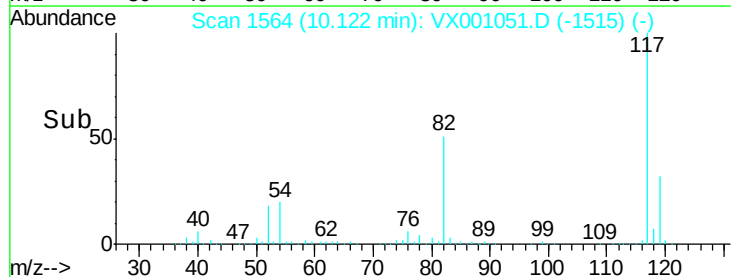
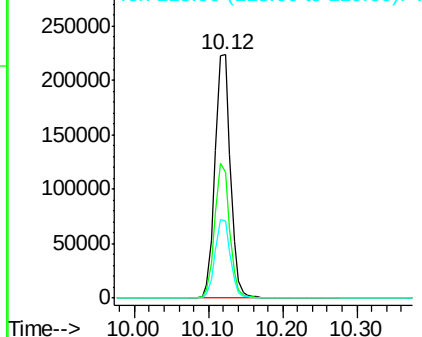


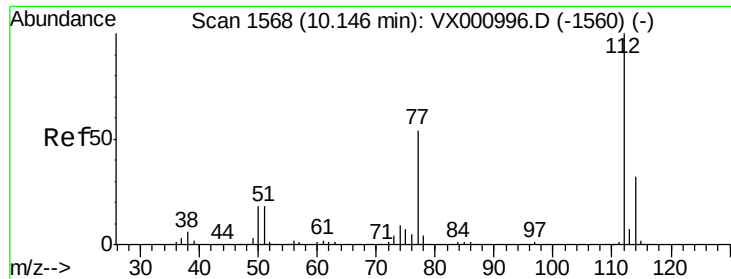
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

Tgt Ion: 117 Resp: 316001
Ion Ratio Lower Upper
117 100
82 51.5 40.6 60.8
119 31.9 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

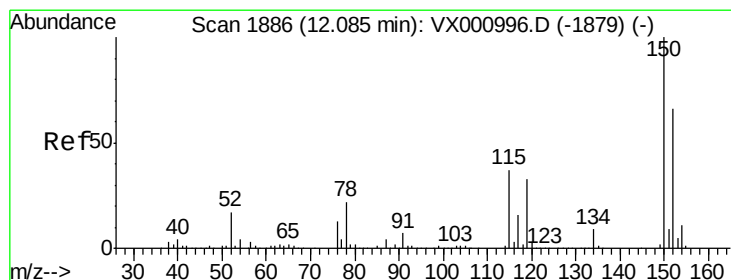
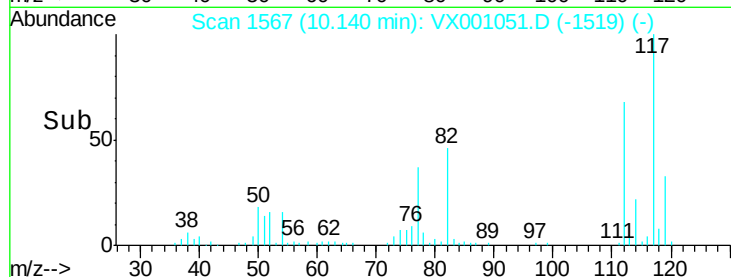
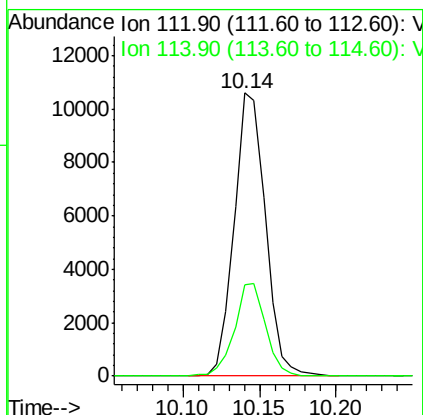
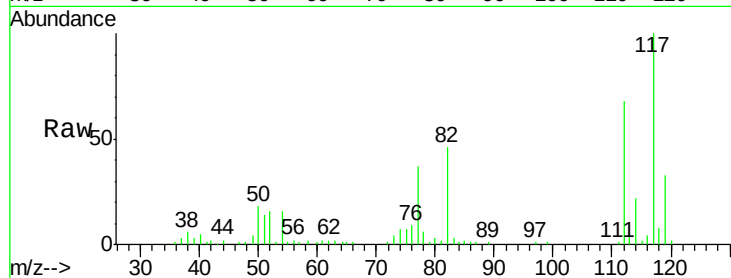




#65
Chlorobenzene
Concen: 1.78 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

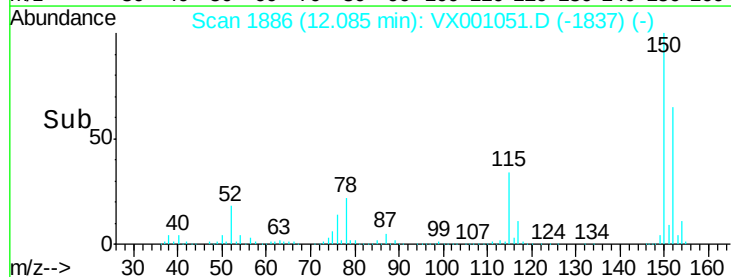
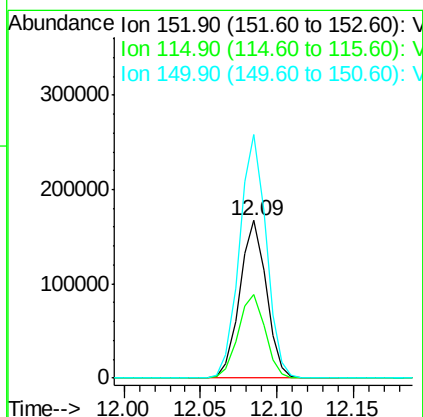
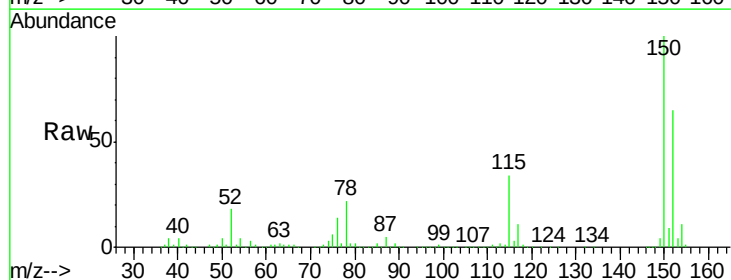
Instrument :
MSVOA_X
ClientSampleId :
LF012RW163-180411DL

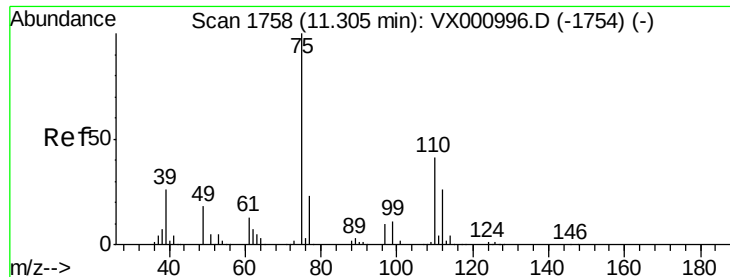
Tgt Ion:112 Resp: 15007
Ion Ratio Lower Upper
112 100
114 32.5 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001051.D
Acq: 23 Apr 2018 12:04

Tgt Ion:152 Resp: 201172
Ion Ratio Lower Upper
152 100
115 54.0 38.2 114.6
150 155.6 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 26.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

Instrument :

MSVOA_X

ClientSampleId :

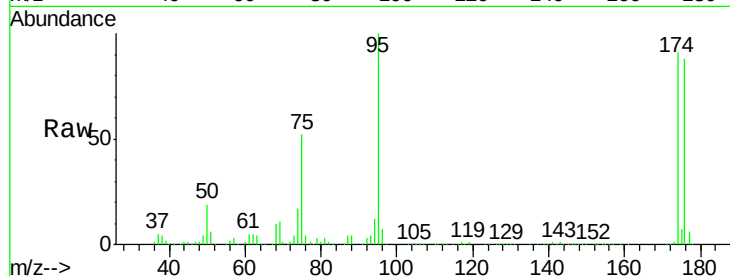
LF012RW163-180411DL

Tgt Ion: 75 Resp: 92318

Ion Ratio Lower Upper

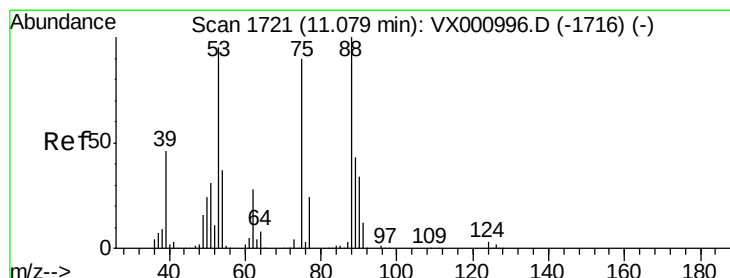
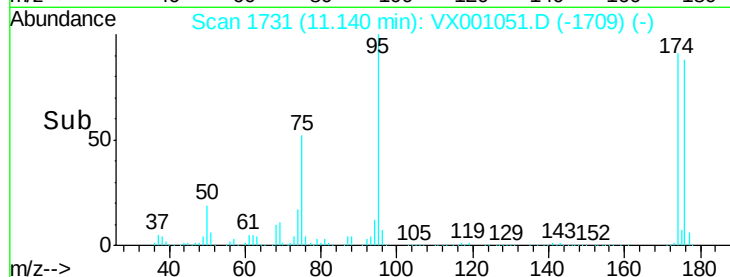
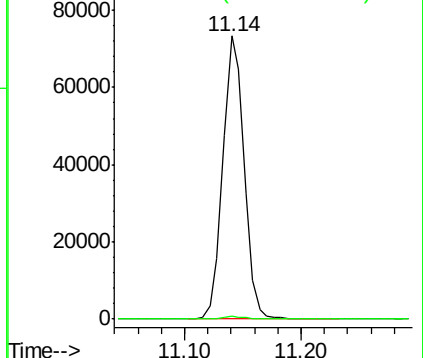
75 100

77 1.1 19.6 58.7#



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: 79.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001051.D

Acq: 23 Apr 2018 12:04

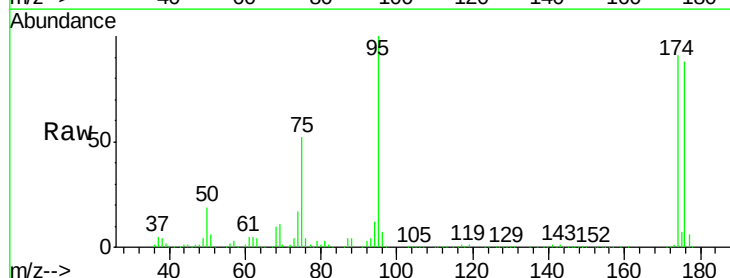
Tgt Ion: 75 Resp: 92318

Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

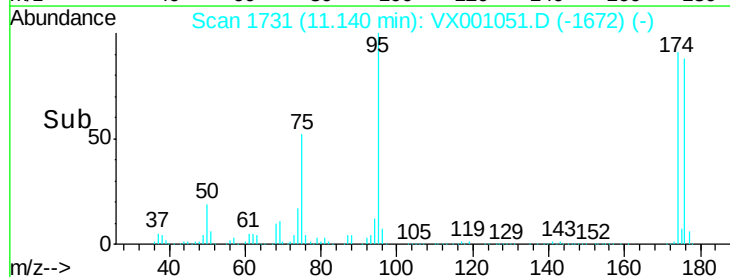
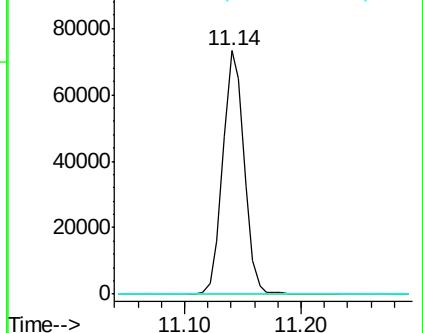
89 0.0 39.7 59.5#

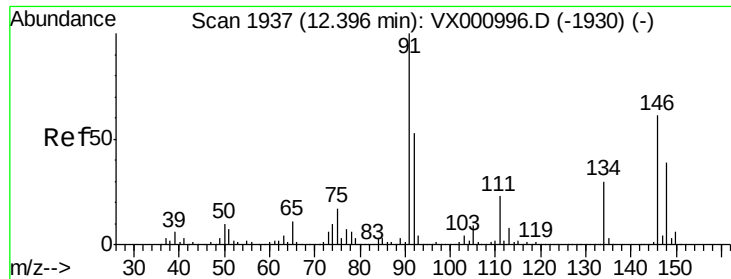


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#91

1,2-Dichlorobenzene

Concen: 0.36 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX001051.D

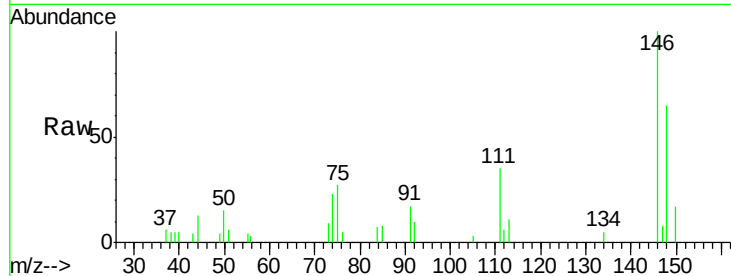
Acq: 23 Apr 2018 12:04

Instrument :

MSVOA_X

ClientSampleId :

LF012RW163-180411DL



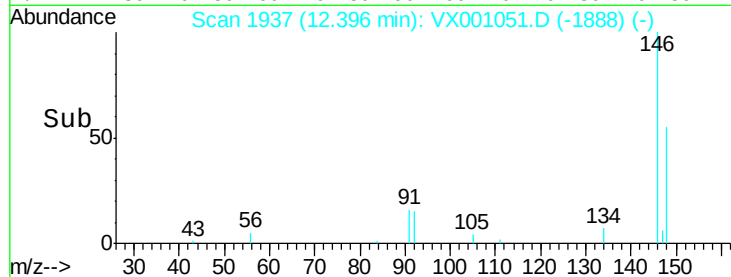
Tgt Ion:146 Resp: 2512

Ion Ratio Lower Upper

146 100

111 36.1 18.6 56.0

148 65.2 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

