

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011419\
 Data File : VX007031.D
 Acq On : 14 Jan 2019 11:36
 Operator : JC/SP
 Sample : VX0114WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0114WBL01

Quant Time: Jan 15 01:31:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	642546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	976324	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	907399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	452574	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	333343	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
35) Dibromofluoromethane	5.50	113	302049	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	8.71	98	1165423	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.13	95	415858	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	

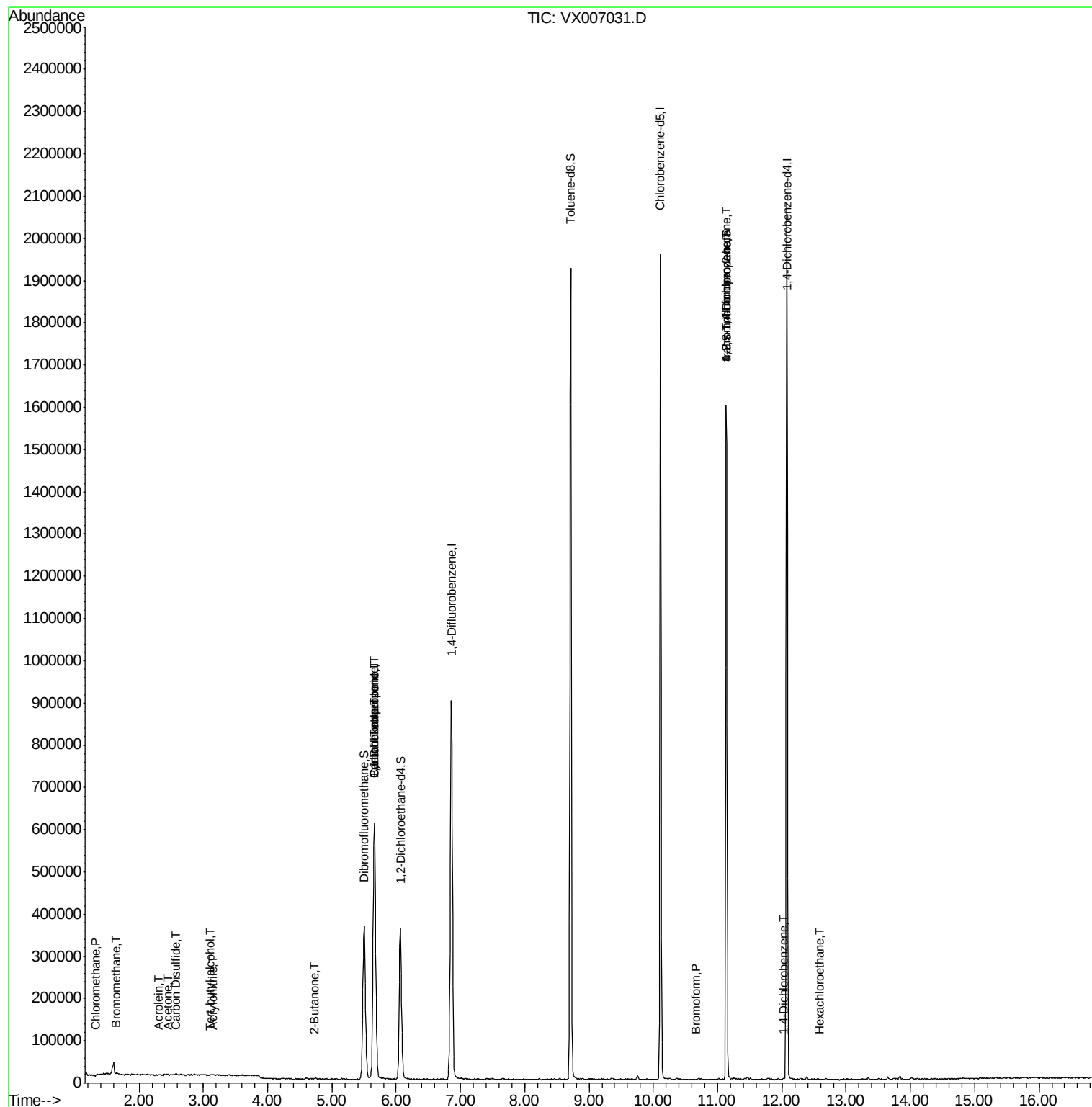
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	1444	0.235	ug/l	92
5) Bromomethane	1.65	94	1785	0.253	ug/l #	72
11) Tert butyl alcohol	3.10	59	339	0.214	ug/l #	1
13) Acrolein	2.29	56	493	3.797	ug/l #	47
15) Acrylonitrile	3.14	53	1744	0.480	ug/l #	50
16) Acetone	2.44	43	1339	0.403	ug/l	95
17) Carbon Disulfide	2.57	76	3128	0.206	ug/l #	72
20) Methylene Chloride	2.87	84	1153	Below Cal	#	60
25) 2-Butanone	4.72	43	957	0.201	ug/l #	47
31) Cyclohexane	5.66	56	10050	1.061	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	41090	4.841	ug/l #	48
38) Carbon Tetrachloride	5.66	117	55832	6.537	ug/l #	14
49) 1,4-Dioxane	7.76	88	277	Below Cal	#	1
71) Bromoform	10.65	173	103	4.743	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	198085	21.599	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	198085	64.033	ug/l #	10
88) 1,4-Dichlorobenzene	12.02	146	1211	0.225	ug/l	89
90) Hexachloroethane	12.59	117	225	2.955	ug/l #	6

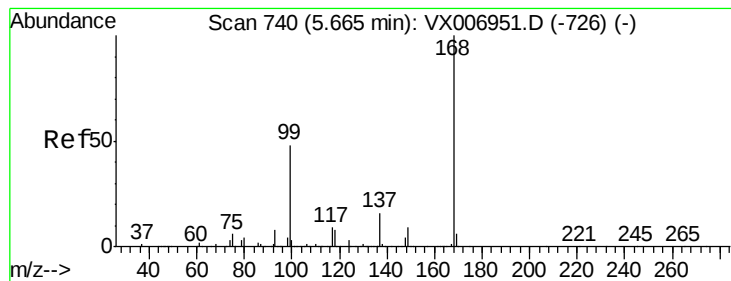
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

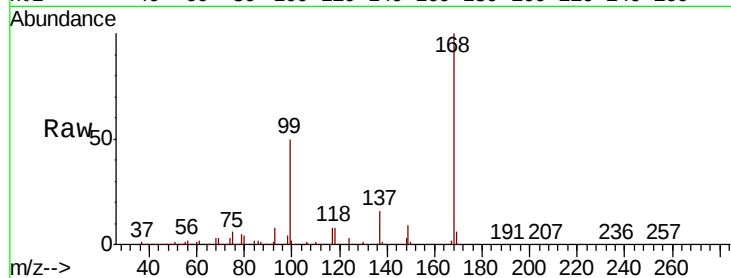
VX0114WBL01

Tgt Ion:168 Resp: 642546

Ion Ratio Lower Upper

168 100

99 49.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

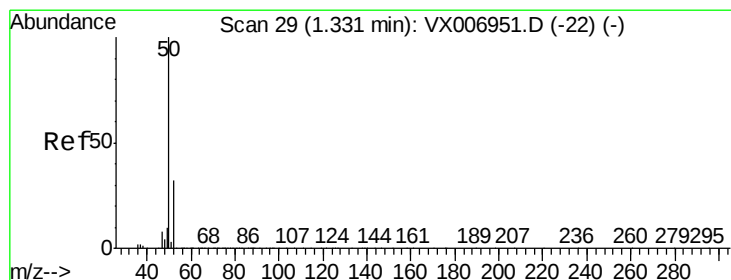
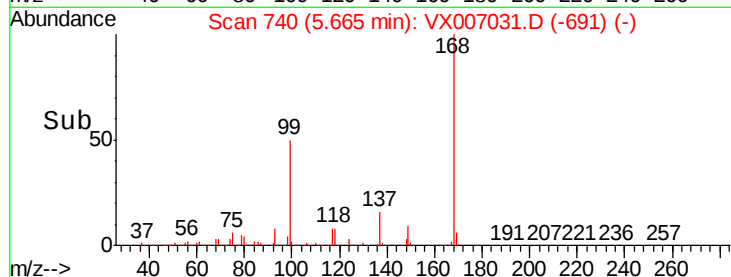
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX007031.D

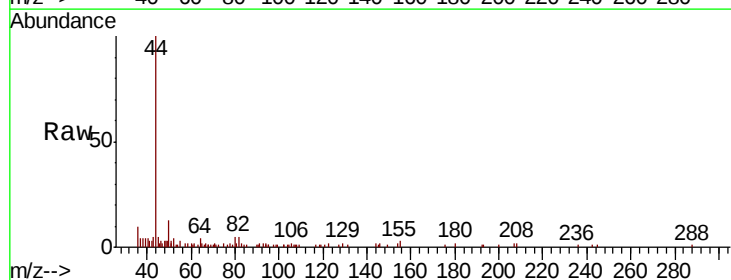
Acq: 14 Jan 2019 11:36

Tgt Ion: 50 Resp: 1444

Ion Ratio Lower Upper

50 100

52 27.6 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1000

800

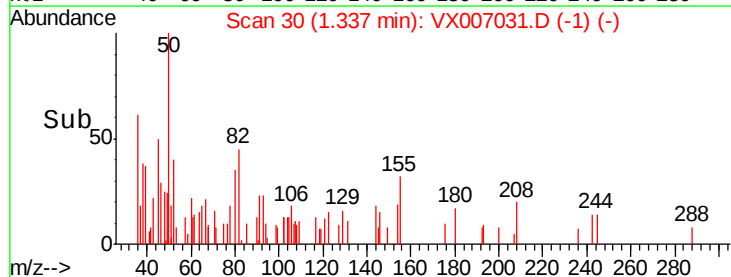
600

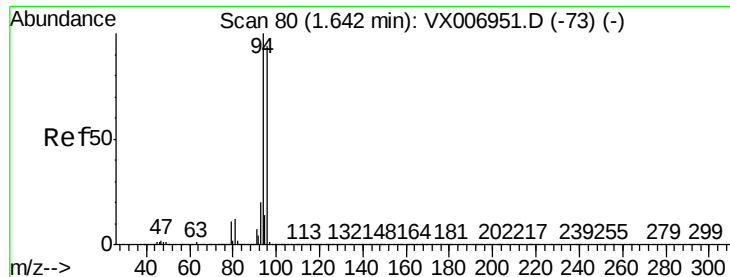
400

200

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.253 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

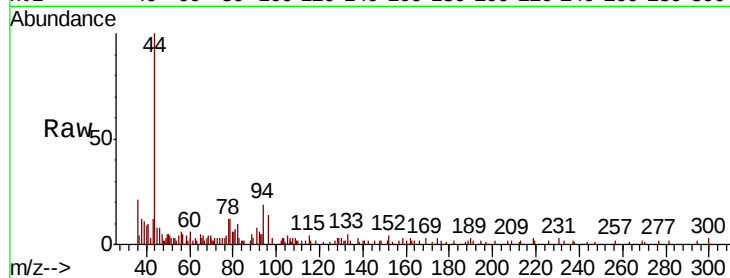
VX0114WBL01

Tgt Ion: 94 Resp: 1785

Ion Ratio Lower Upper

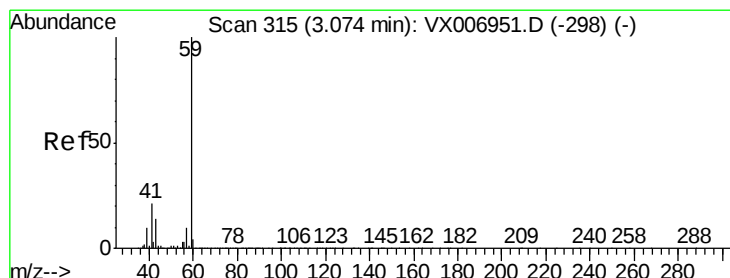
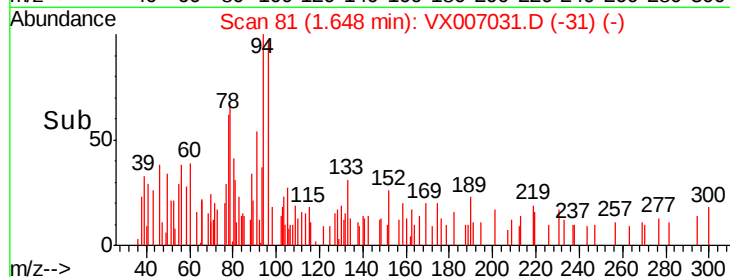
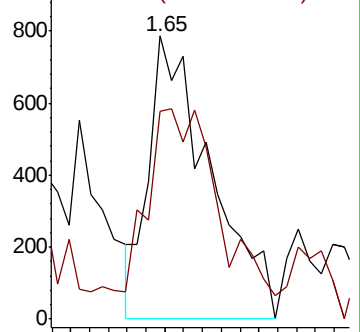
94 100

96 65.3 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.214 ug/l

RT: 3.10 min Scan# 319

Delta R.T. 0.02 min

Lab File: VX007031.D

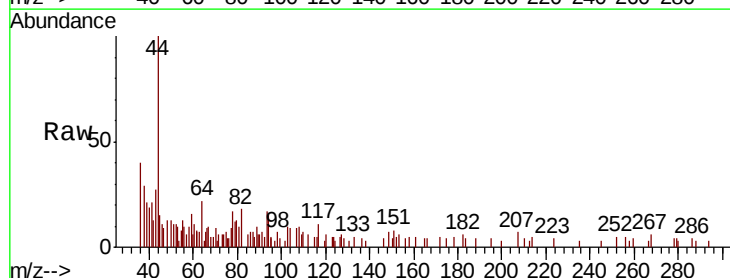
Acq: 14 Jan 2019 11:36

Tgt Ion: 59 Resp: 339

Ion Ratio Lower Upper

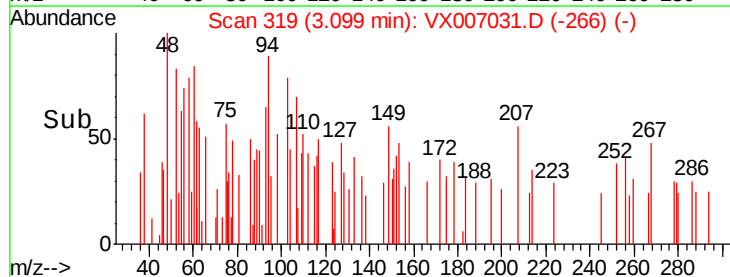
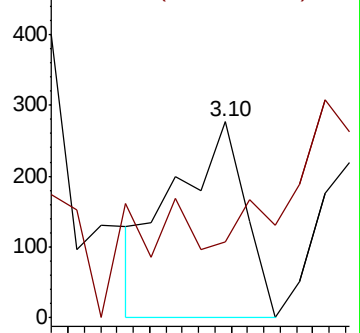
59 100

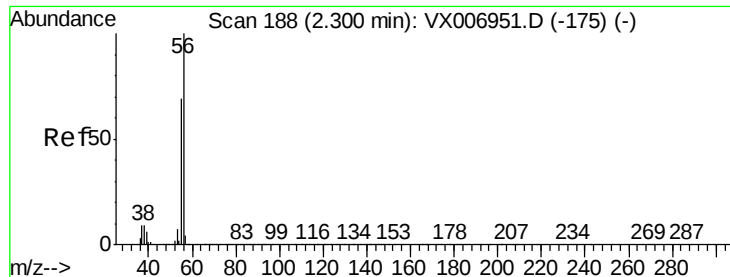
57 55.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 3.797 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampled :

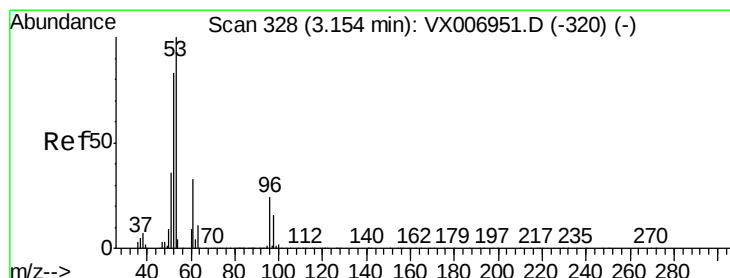
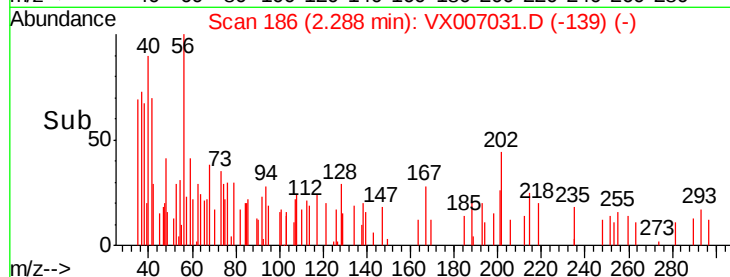
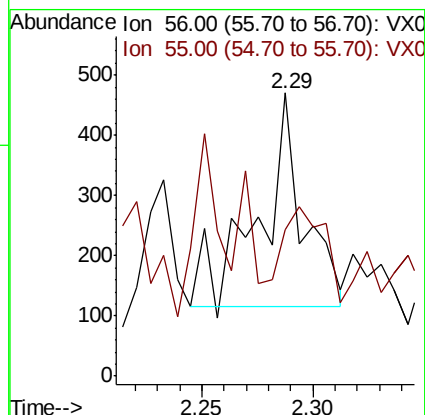
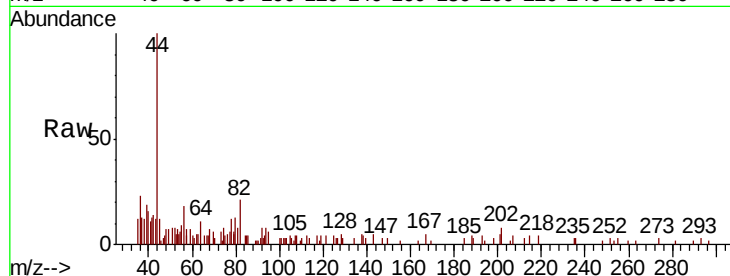
VX0114WBL01

Tgt Ion: 56 Resp: 493

Ion Ratio Lower Upper

56 100

55 28.2 58.2 87.4#



#15

Acrylonitrile

Concen: 0.480 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

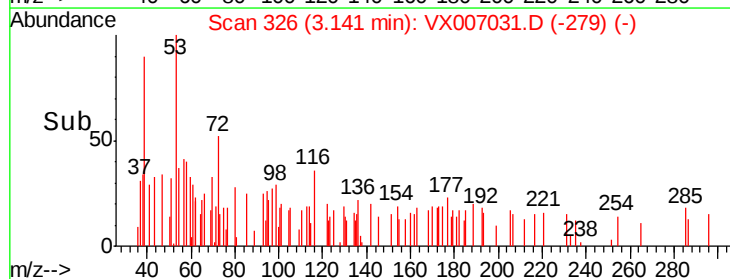
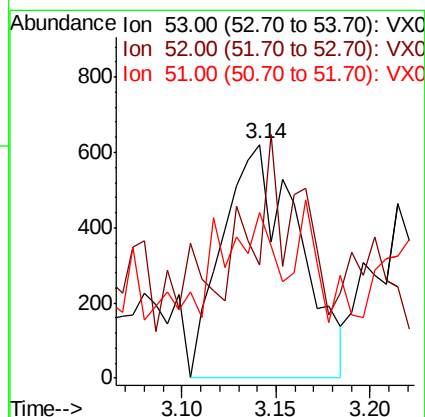
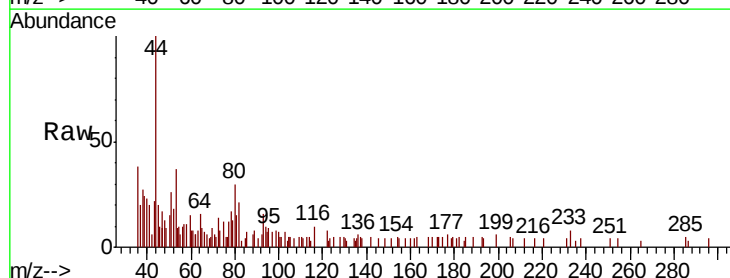
Tgt Ion: 53 Resp: 1744

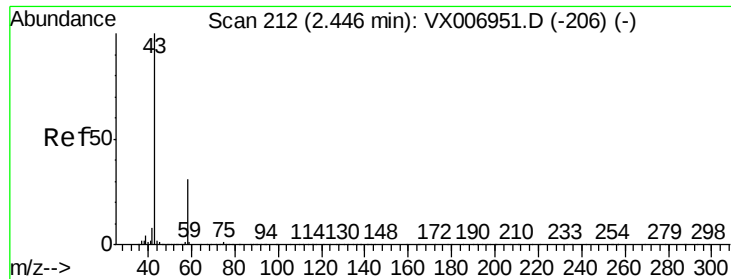
Ion Ratio Lower Upper

53 100

52 22.0 66.0 99.0#

51 30.6 28.6 42.8





#16

Acetone

Concen: 0.403 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampled :

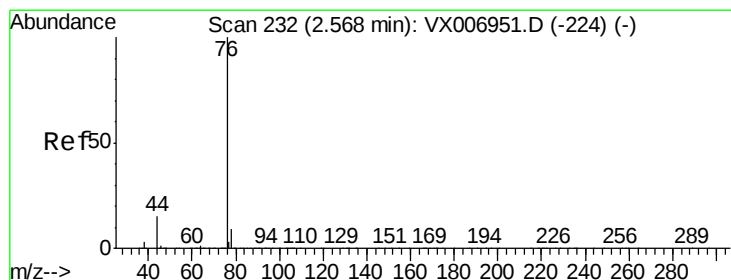
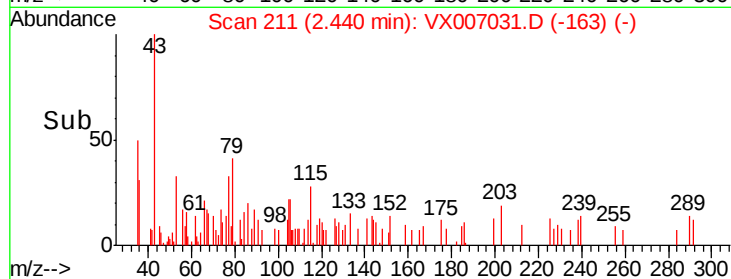
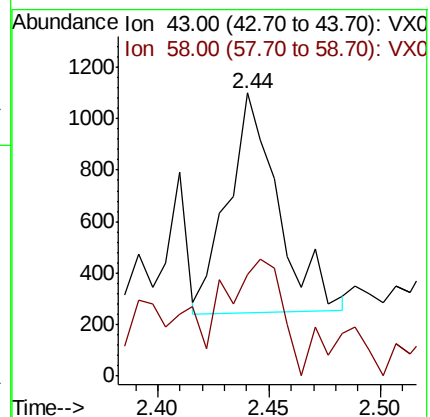
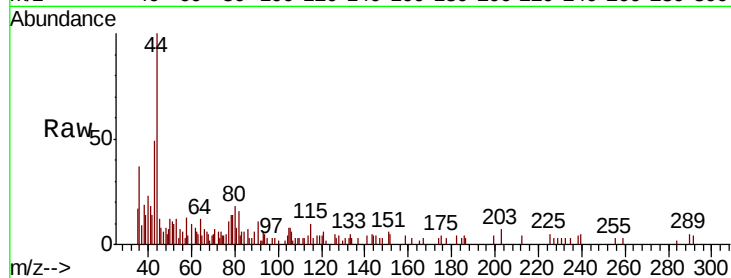
VX0114WBL01

Tgt Ion: 43 Resp: 1339

Ion Ratio Lower Upper

43 100

58 28.5 25.0 37.6



#17

Carbon Disulfide

Concen: 0.206 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX007031.D

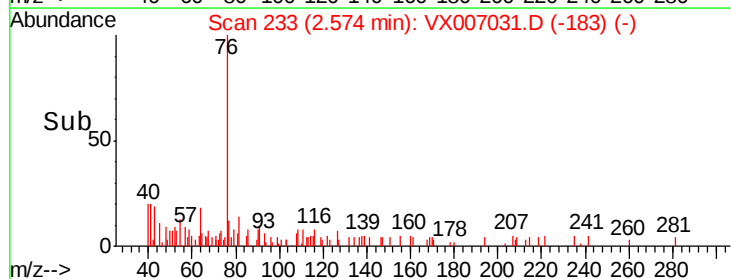
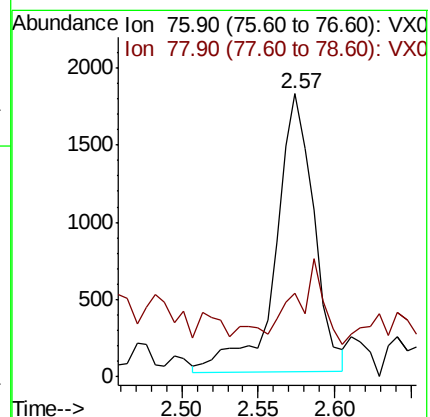
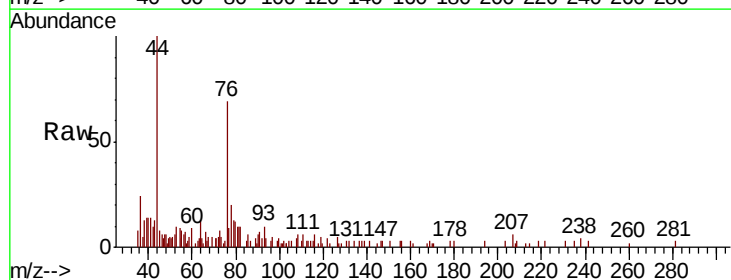
Acq: 14 Jan 2019 11:36

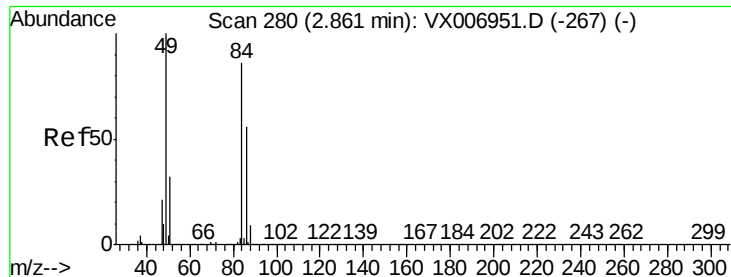
Tgt Ion: 76 Resp: 3128

Ion Ratio Lower Upper

76 100

78 18.9 7.0 10.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

VX0114WBL01

Tgt Ion: 84 Resp: 1153

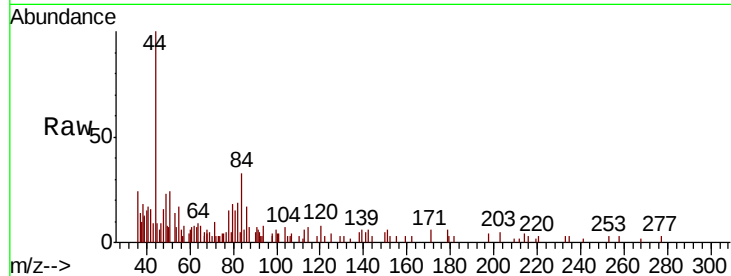
Ion Ratio Lower Upper

84 100

49 55.5 91.8 137.6#

51 57.5 28.5 42.7#

86 51.9 50.2 75.2

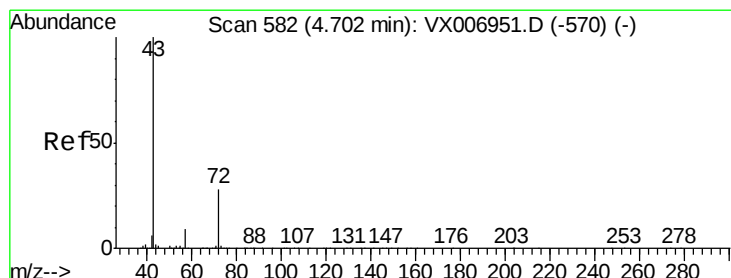
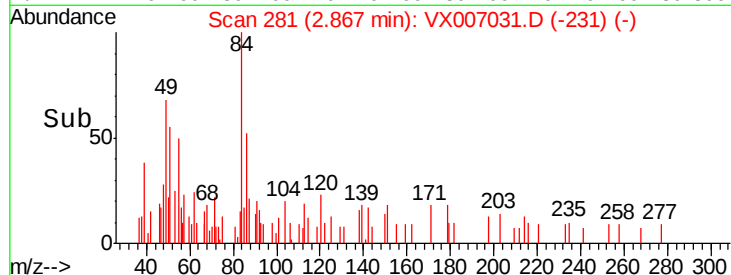
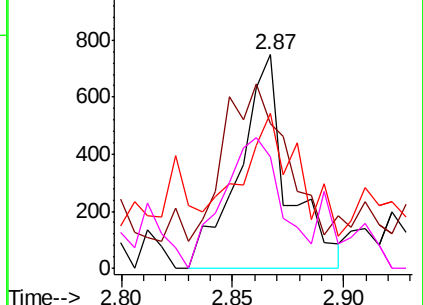


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.201 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX007031.D

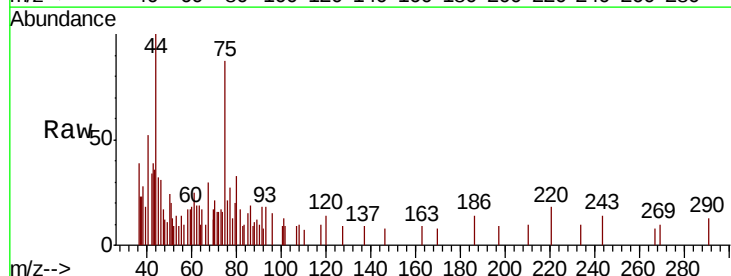
Acq: 14 Jan 2019 11:36

Tgt Ion: 43 Resp: 957

Ion Ratio Lower Upper

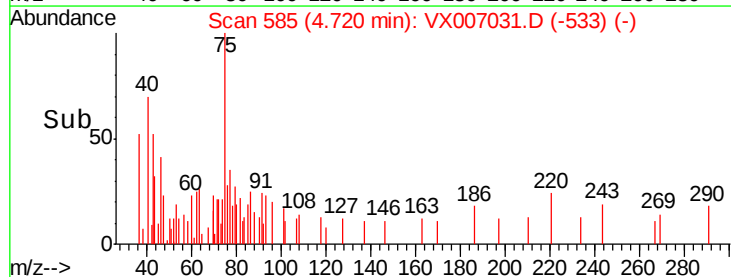
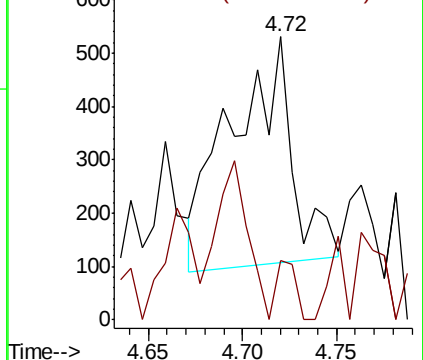
43 100

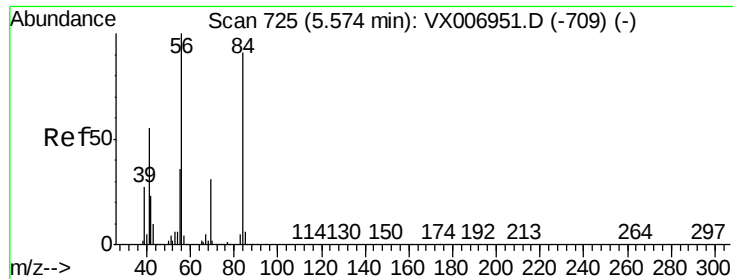
72 0.0 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

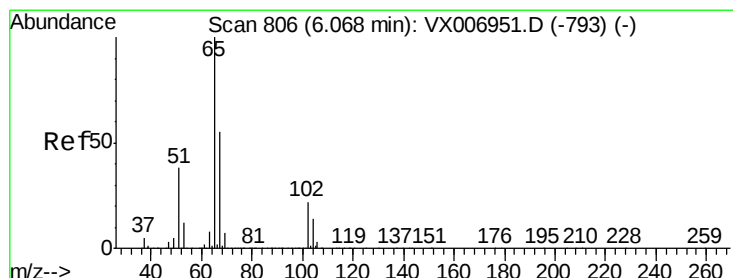
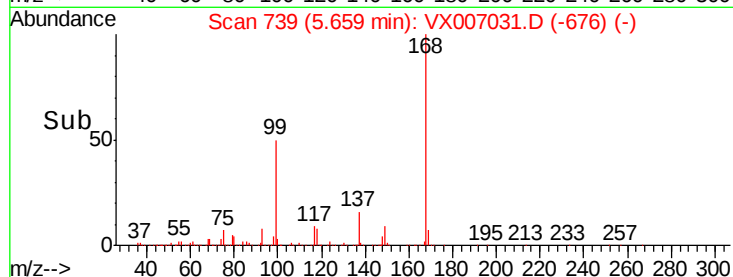
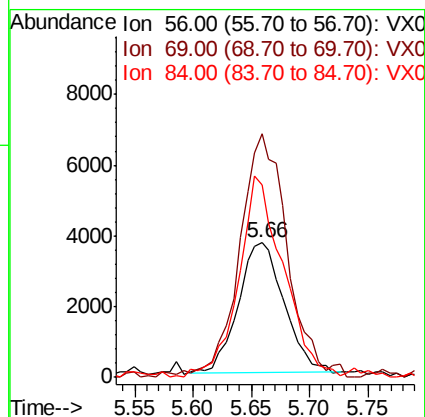
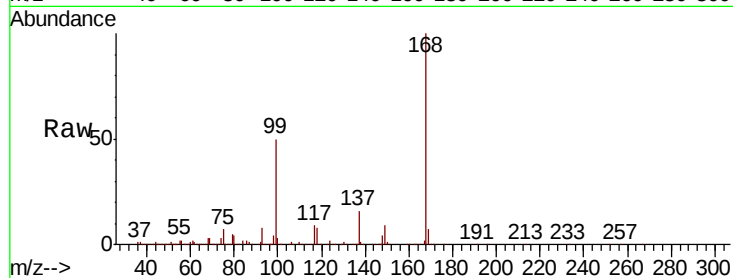




#31
Cyclohexane
Concen: 1.061 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007031.D
Acq: 14 Jan 2019 11:36

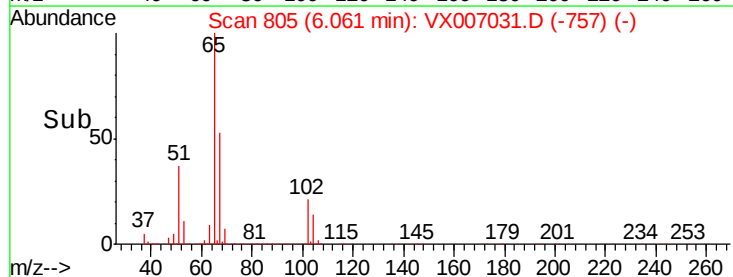
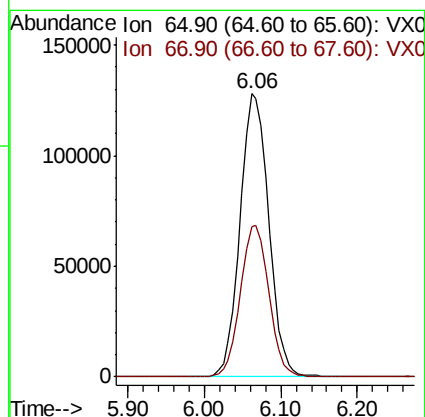
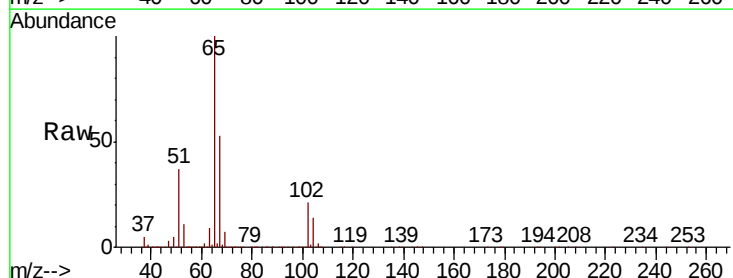
Instrument :
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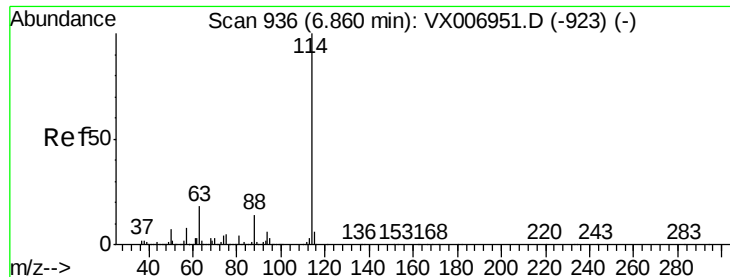
Tgt Ion: 56 Resp: 10050
Ion Ratio Lower Upper
56 100
69 186.2 24.4 36.6#
84 145.6 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 49.640 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX007031.D
Acq: 14 Jan 2019 11:36

Tgt Ion: 65 Resp: 333343
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

VX0114WBL01

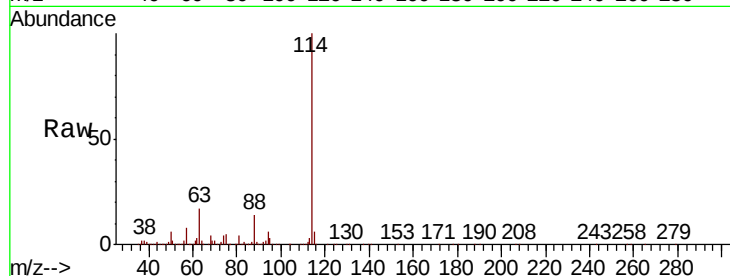
Tgt Ion:114 Resp: 976324

Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.8

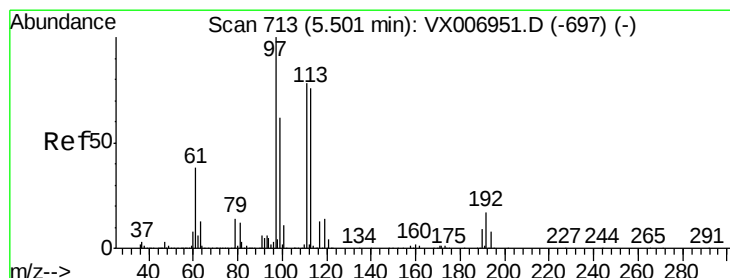
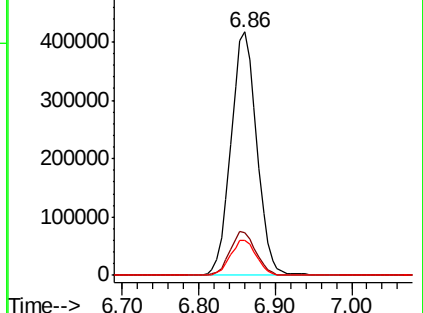
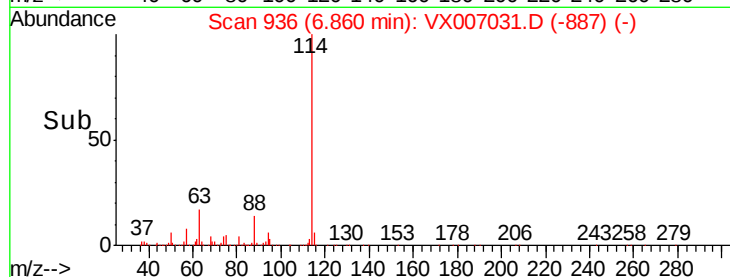
88 14.4 0.0 28.8



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: 48.310 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

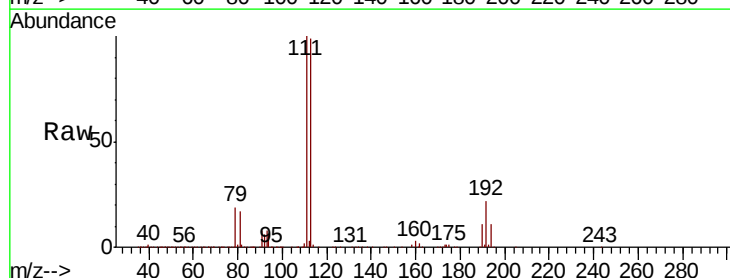
Tgt Ion:113 Resp: 302049

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

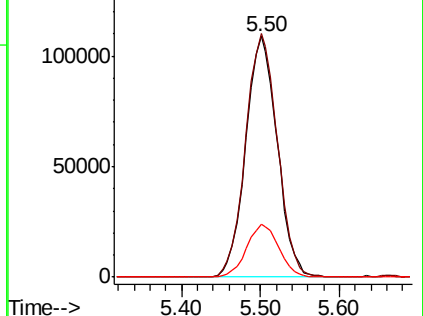
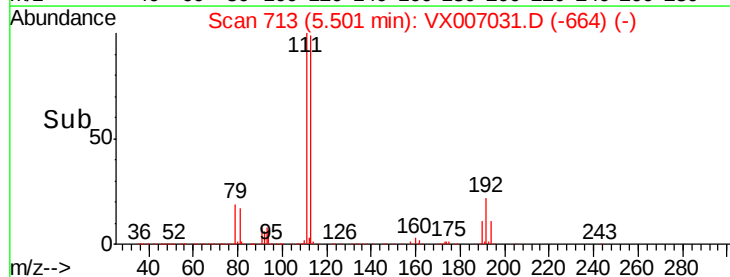
192 22.4 16.7 25.1

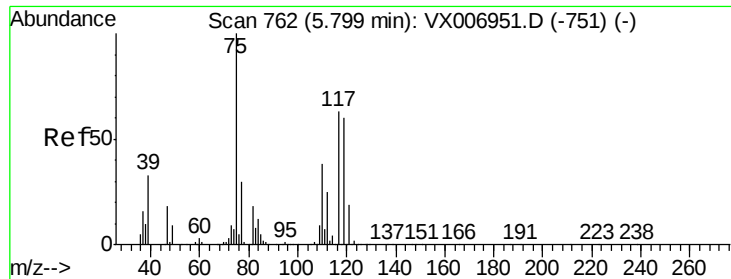


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.841 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

VX0114WBL01

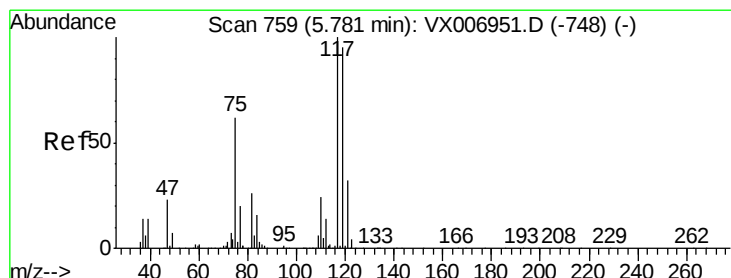
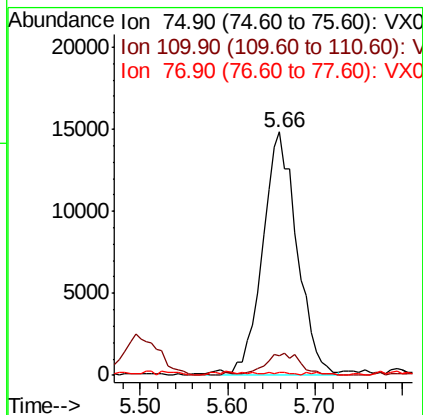
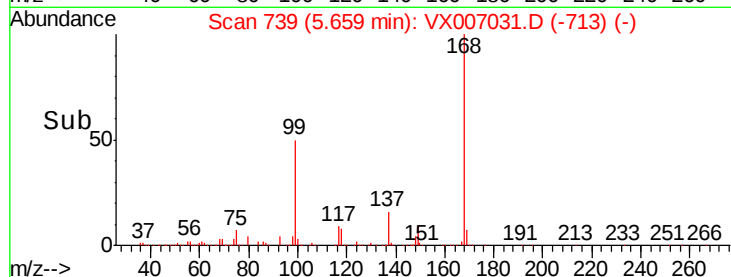
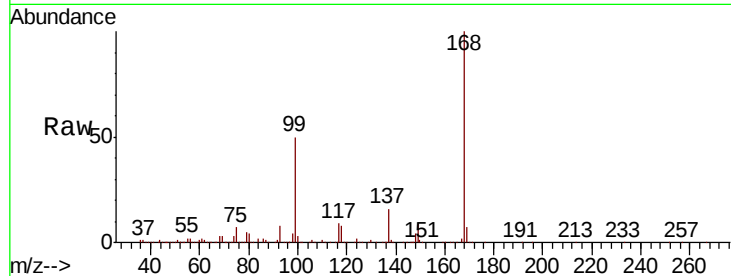
Tgt Ion: 75 Resp: 41090

Ion Ratio Lower Upper

75 100

110 9.9 20.2 60.5#

77 0.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.537 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

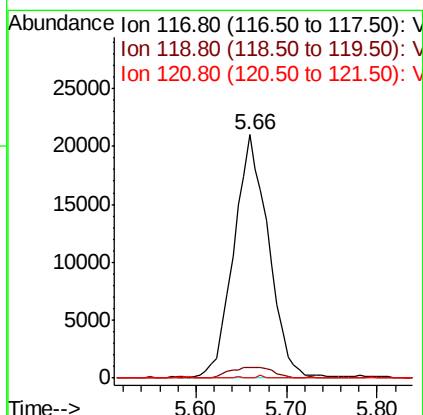
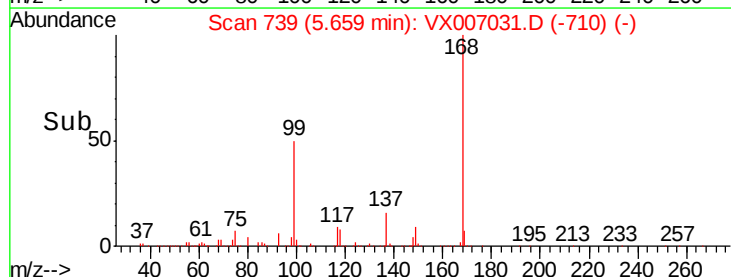
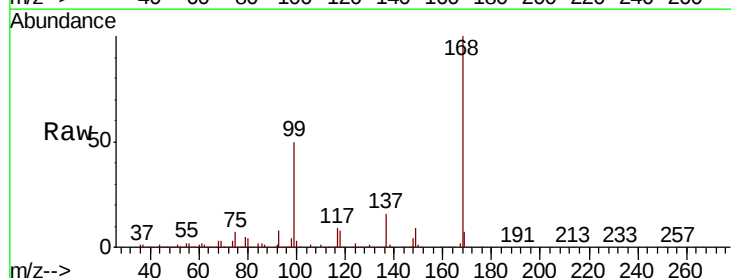
Tgt Ion: 117 Resp: 55832

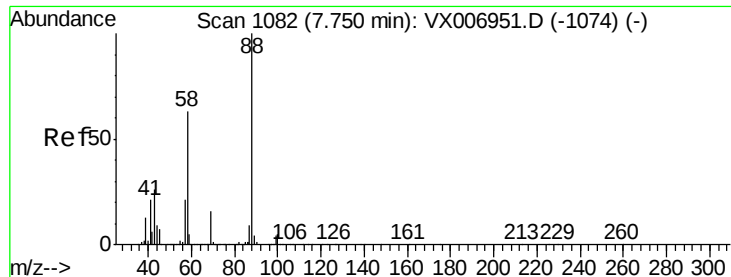
Ion Ratio Lower Upper

117 100

119 4.5 79.4 119.2#

121 0.0 24.0 36.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

VX0114WBL01

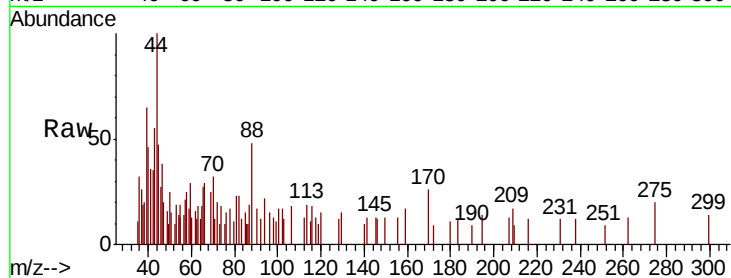
Tgt Ion: 88 Resp: 277

Ion Ratio Lower Upper

88 100

43 102.5 22.2 33.4#

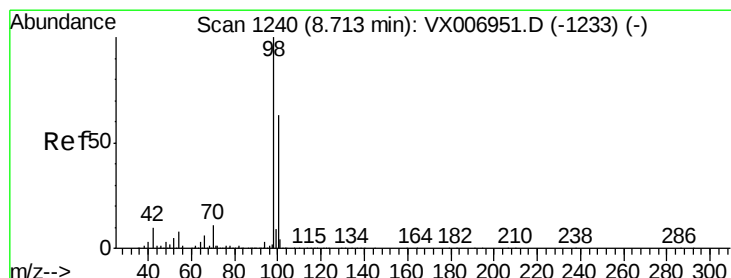
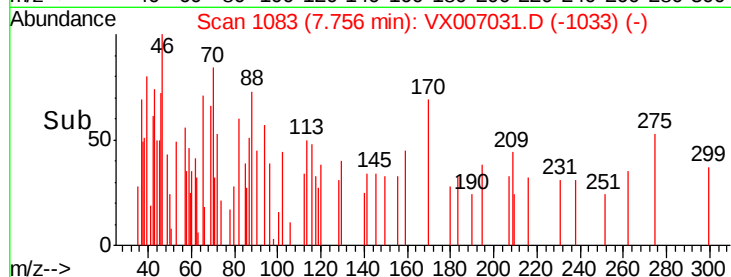
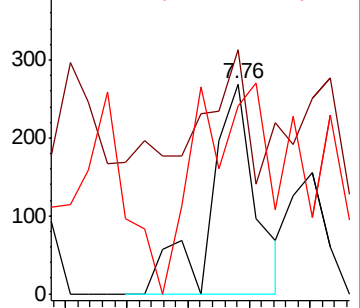
58 153.1 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.924 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007031.D

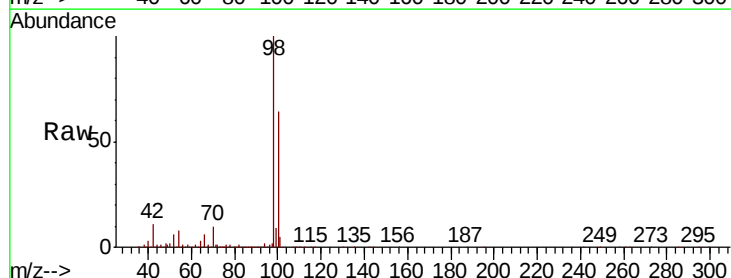
Acq: 14 Jan 2019 11:36

Tgt Ion: 98 Resp: 1165423

Ion Ratio Lower Upper

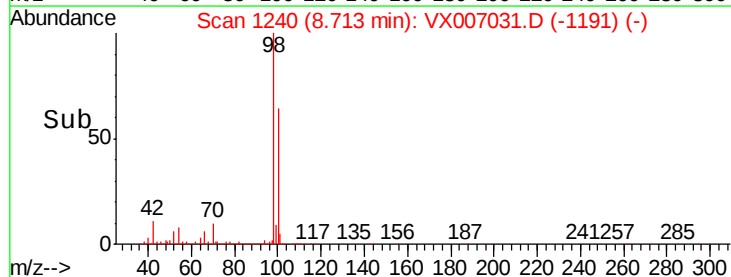
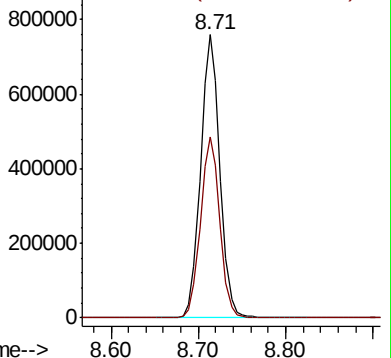
98 100

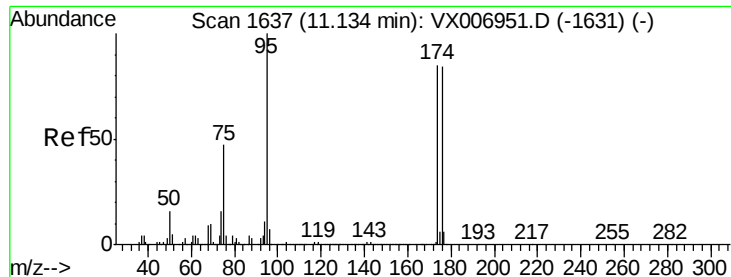
100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 52.123 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

VX0114WBL01

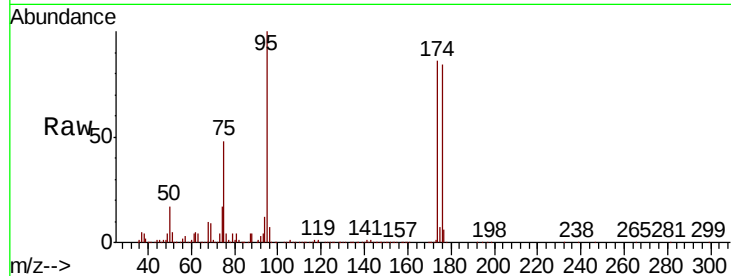
Tgt Ion: 95 Resp: 415858

Ion Ratio Lower Upper

95 100

174 92.9 0.0 182.2

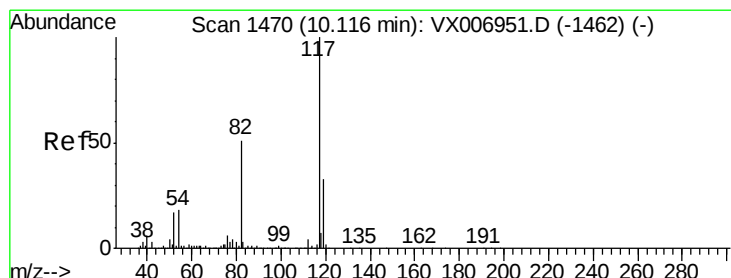
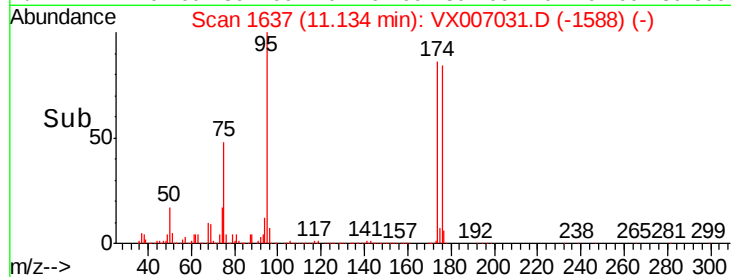
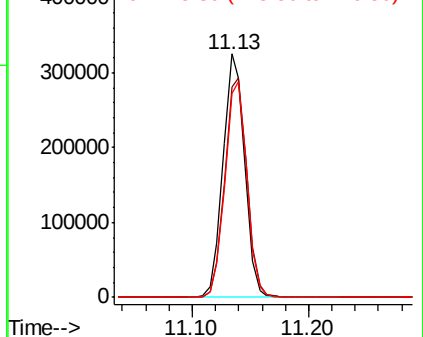
176 90.5 0.0 178.8



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: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

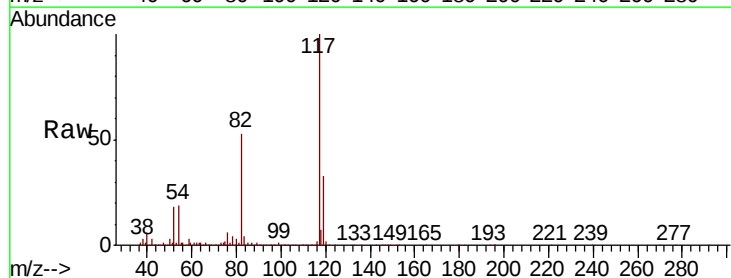
Tgt Ion: 117 Resp: 907399

Ion Ratio Lower Upper

117 100

82 53.2 41.0 61.6

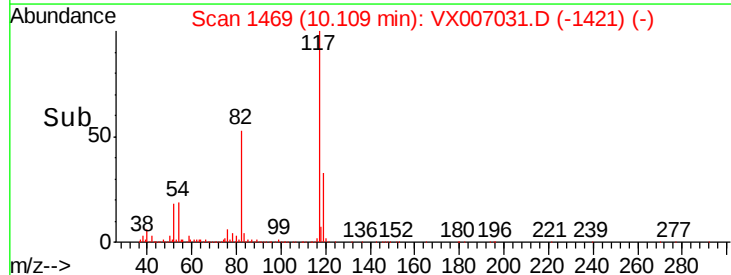
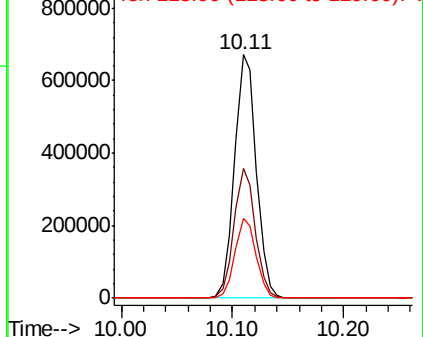
119 32.5 25.4 38.0

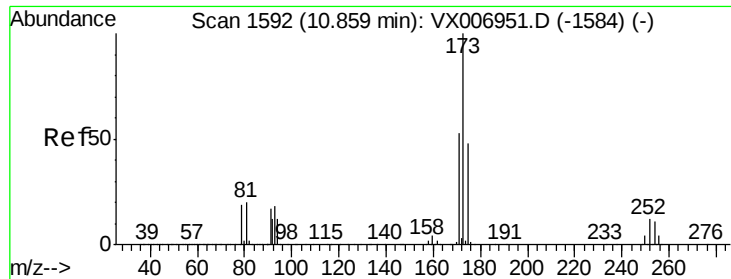


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 4.743 ug/l

RT: 10.65 min Scan# 1558

Delta R.T. -0.21 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampled :

VX0114WBL01

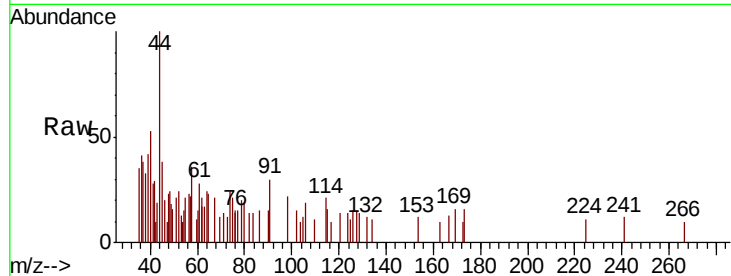
Tgt Ion:173 Resp: 103

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

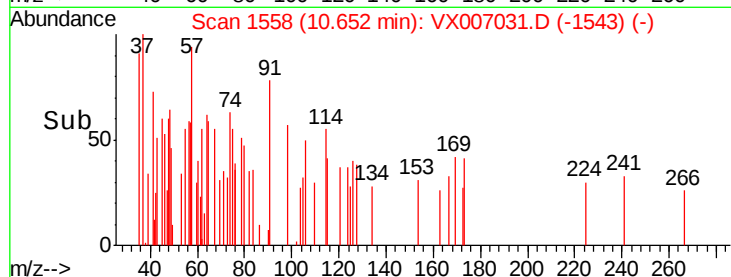
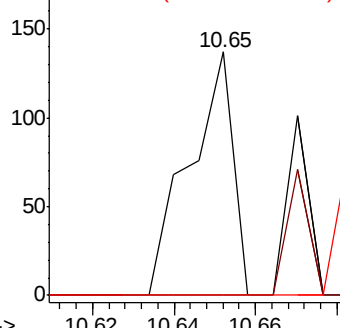
254 0.0 0.2 0.2#



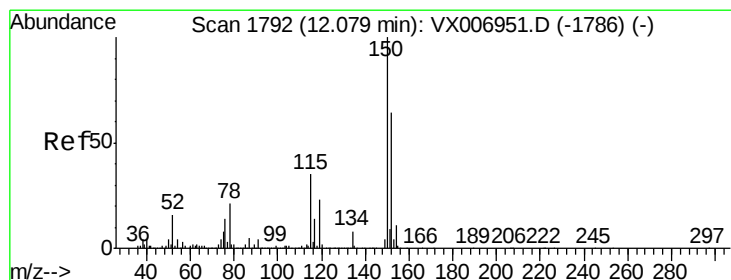
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

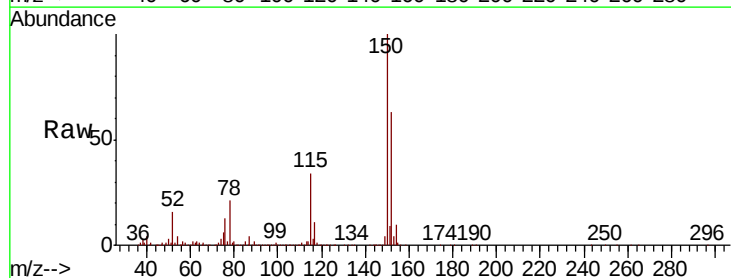
Tgt Ion:152 Resp: 452574

Ion Ratio Lower Upper

152 100

115 53.8 39.1 117.2

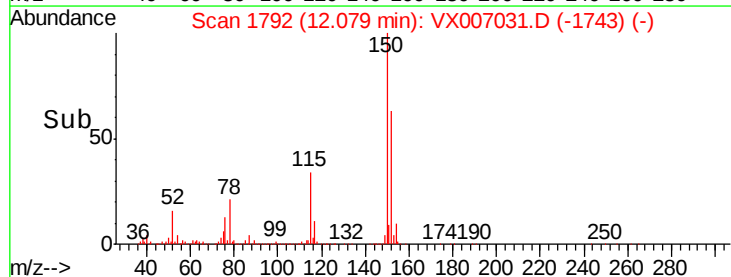
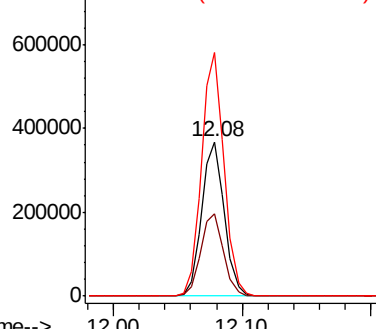
150 156.8 0.0 344.8



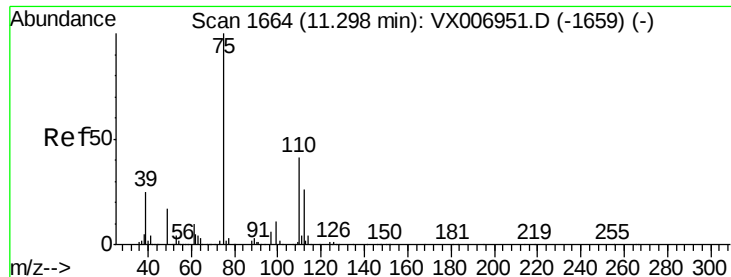
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.599 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

Instrument :

MSVOA_X

ClientSampleId :

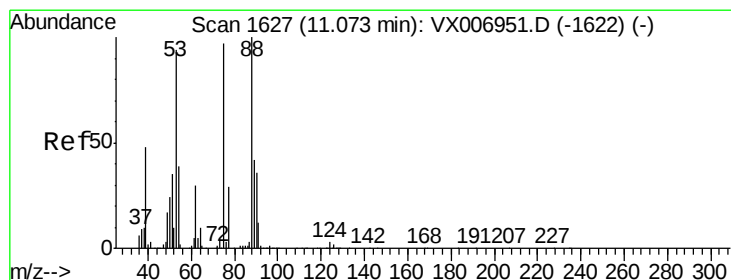
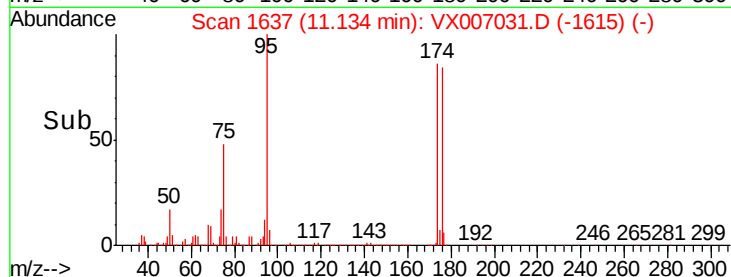
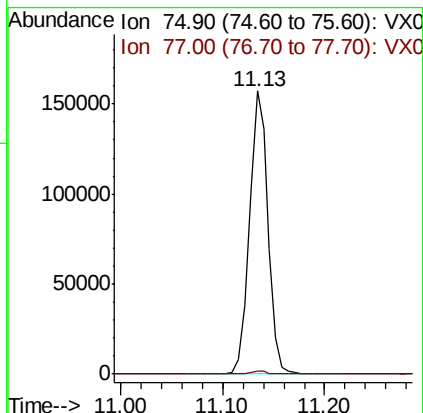
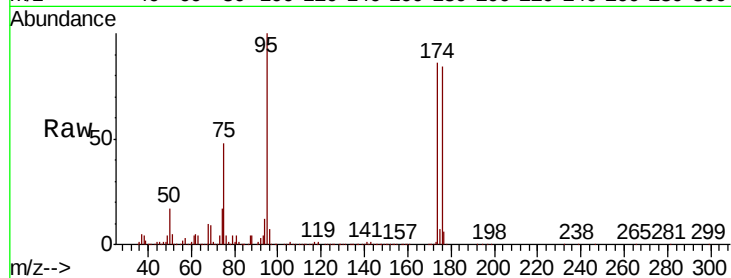
VX0114WBL01

Tgt Ion: 75 Resp: 198085

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.033 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007031.D

Acq: 14 Jan 2019 11:36

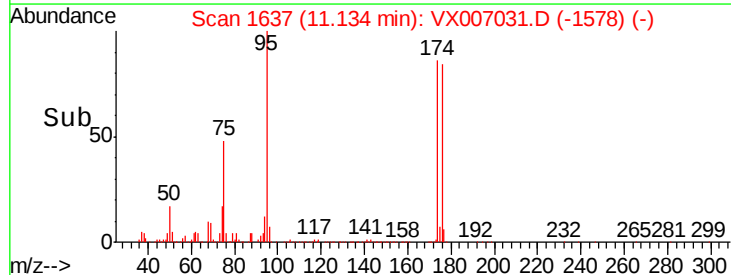
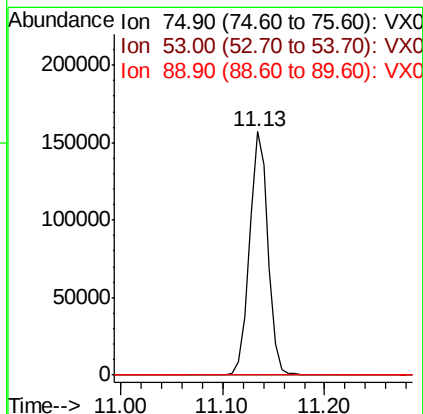
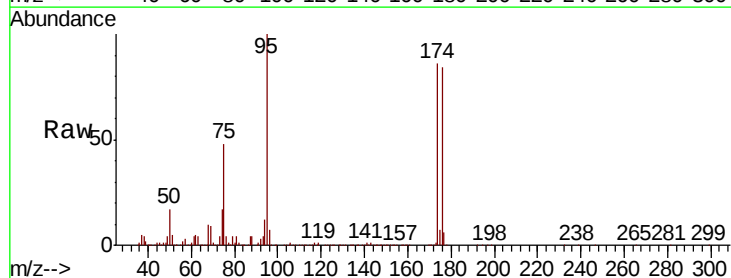
Tgt Ion: 75 Resp: 198085

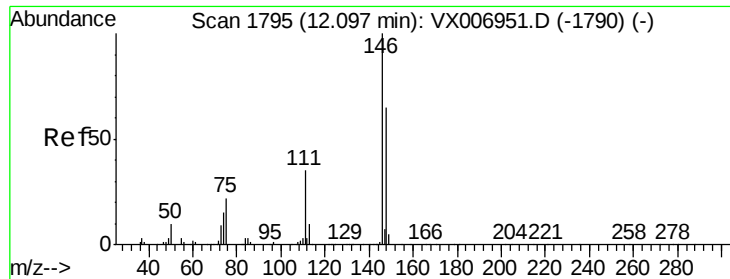
Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.0 38.0 57.0#

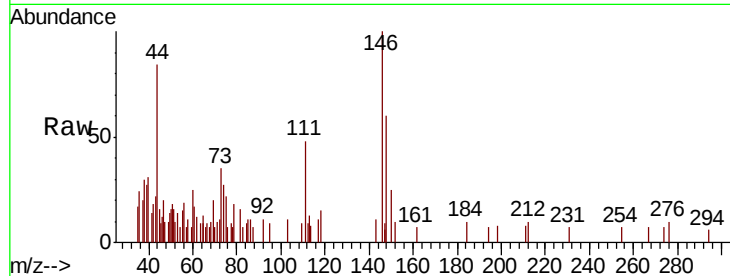




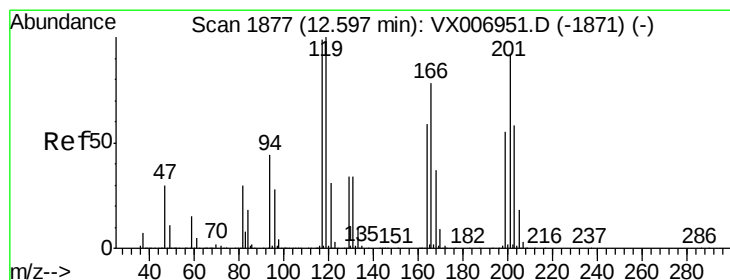
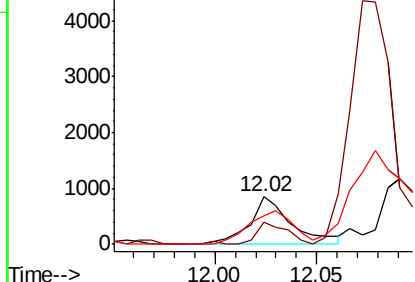
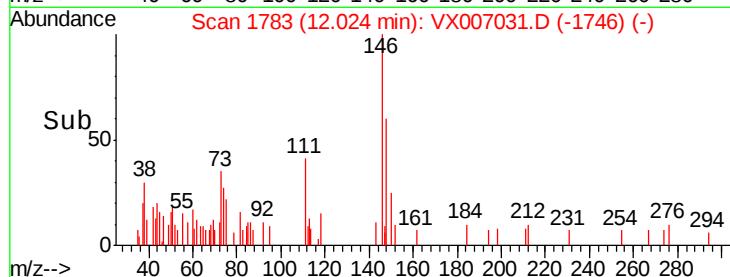
#88
 1,4-Dichlorobenzene
 Concen: 0.225 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.07 min
 Lab File: VX007031.D
 Acq: 14 Jan 2019 11:36

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0114WBL01

Tgt Ion:146 Resp: 1211
 Ion Ratio Lower Upper
 146 100
 111 34.6 18.1 54.1
 148 76.6 31.9 95.9

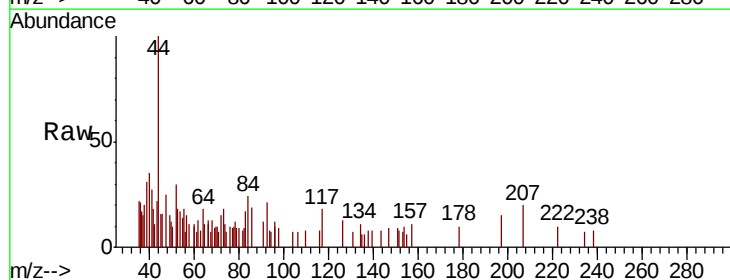


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#90
 Hexachloroethane
 Concen: 2.955 ug/l
 RT: 12.59 min Scan# 1876
 Delta R.T. -0.01 min
 Lab File: VX007031.D
 Acq: 14 Jan 2019 11:36

Tgt Ion:117 Resp: 225
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V

