

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013655.D
 Acq On : 27 Nov 2019 16:32
 Operator : JC/SP
 Sample : K5960-02 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-2

Quant Time: Nov 28 00:34:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	105234	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	527134	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	444340	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	223721	28.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.97%
60) 4-Bromofluorobenzene	11.13	95	200903	28.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.77%
63) Toluene-d8	8.71	98	607377	30.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.77%

Target Compounds

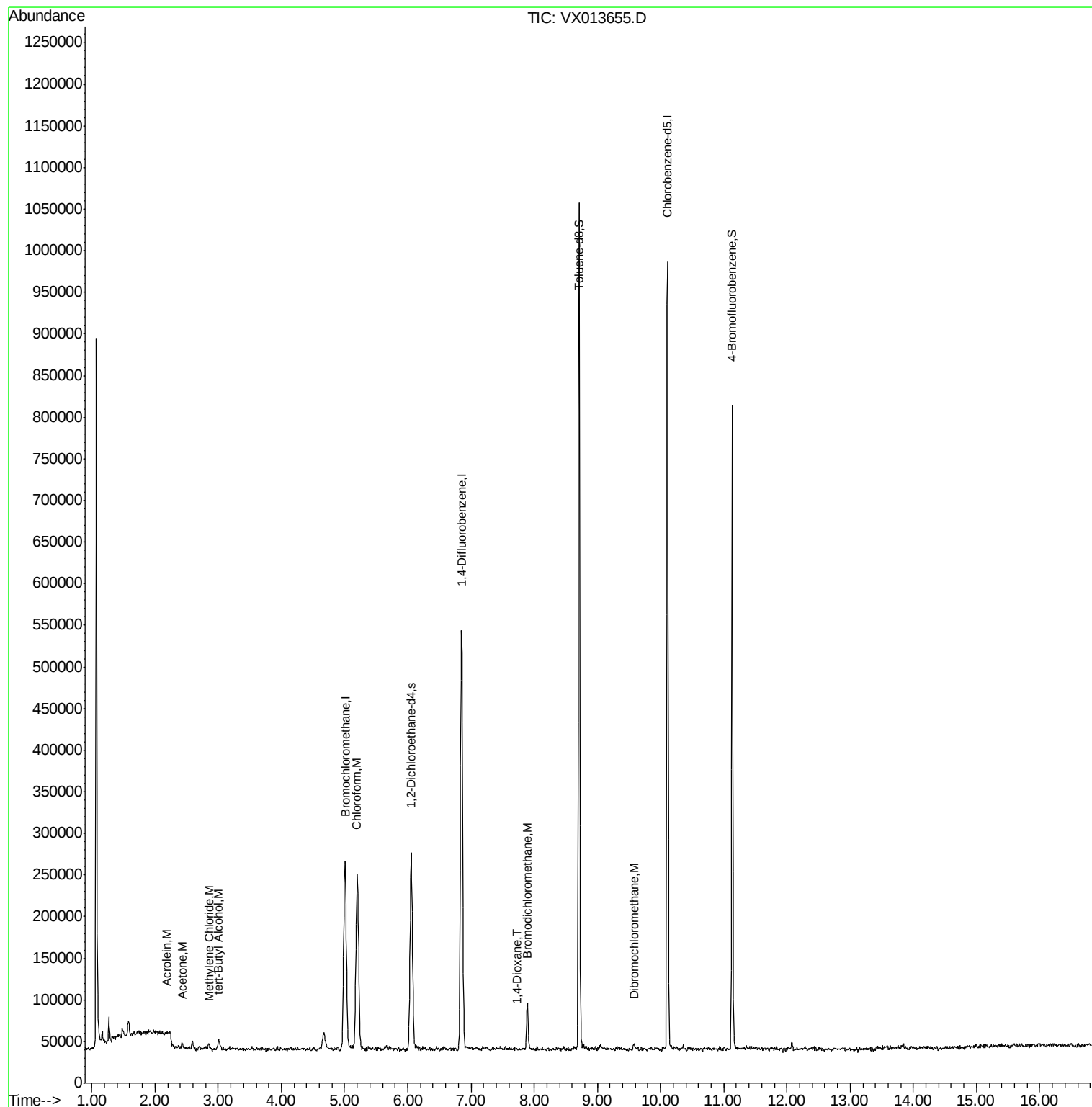
					Ovalue
13) Acrolein	2.20	56	513	0.424 ug/l	95
15) Acetone	2.44	58	1950	1.537 ug/l	97
18) Methylene Chloride	2.86	84	2490	0.338 ug/l #	68
23) tert-Butyl Alcohol	3.01	59	7406	3.675 ug/l #	99
25) Chloroform	5.20	83	253253	20.629 ug/l	99
41) Bromodichloromethane	7.89	83	38621	4.708 ug/l	90
45) 1,4-Dioxane	7.73	88	178	1.035 ug/l #	23
53) Dibromochloromethane	9.58	129	2777	0.421 ug/l	81

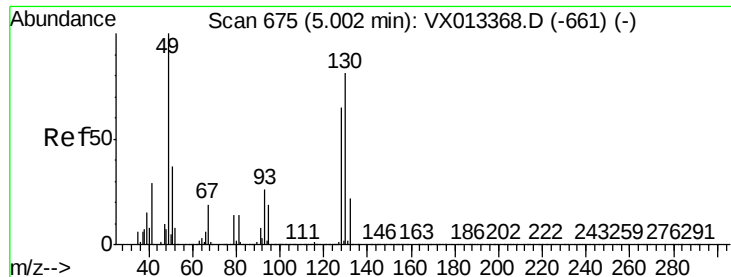
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

14B-2

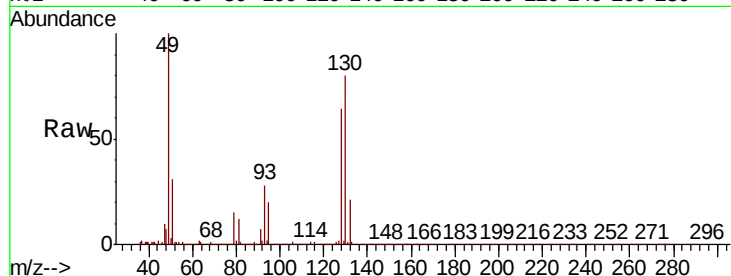
Tot Ion:128 Resp: 105234

Ion Ratio Lower Upper

128 100

49 154.5 0.0 388.3

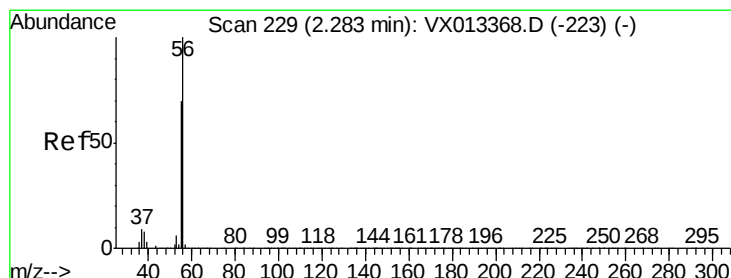
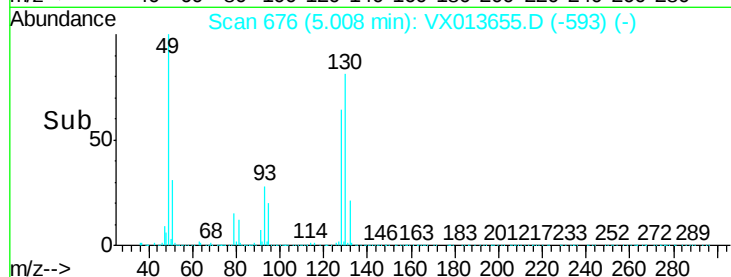
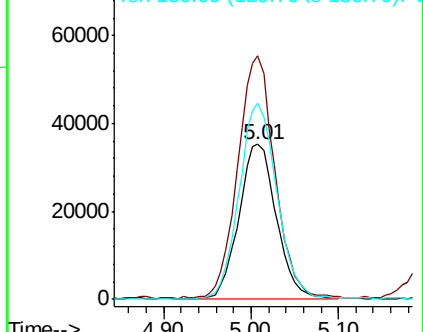
130 127.6 0.0 318.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.424 ug/l

RT: 2.20 min Scan# 215

Delta R.T. -0.09 min

Lab File: VX013655.D

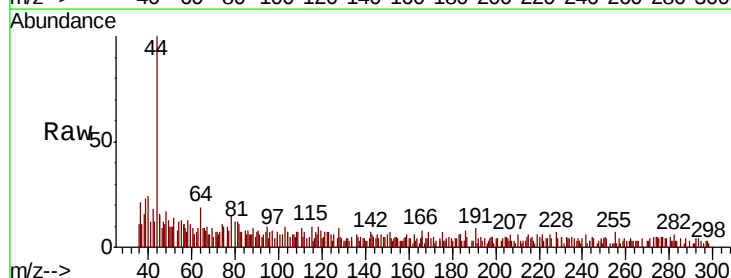
Acq: 27 Nov 2019 16:32

Tgt Ion: 56 Resp: 513

Ion Ratio Lower Upper

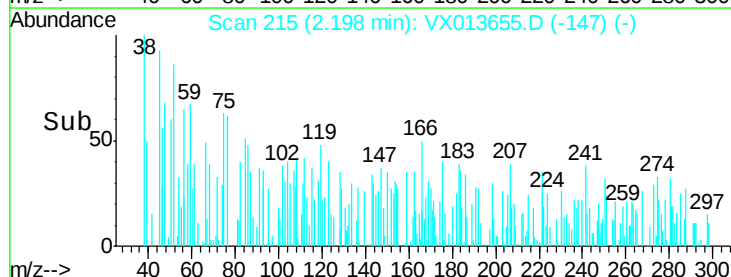
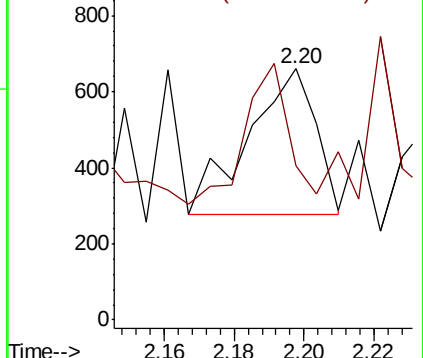
56 100

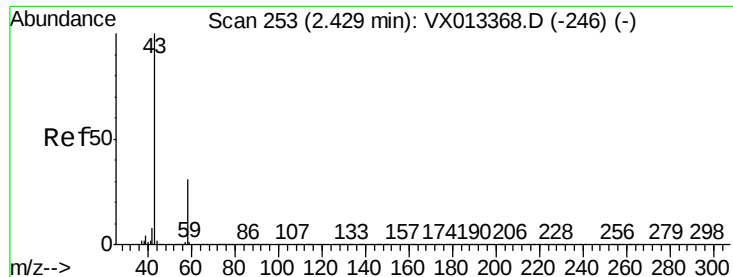
55 73.7 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 1.537 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

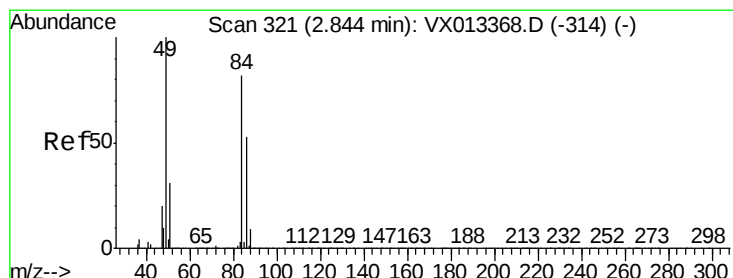
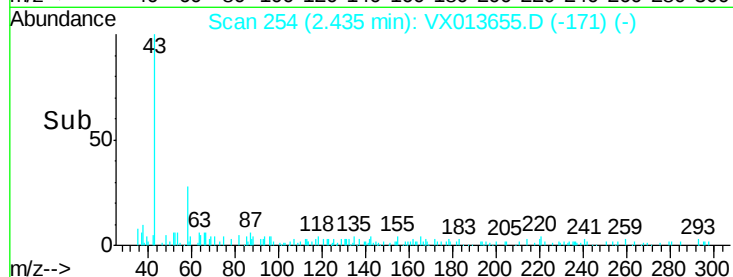
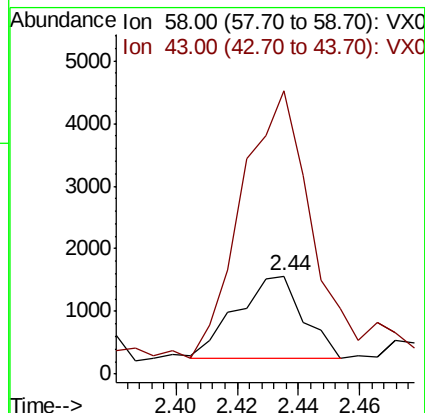
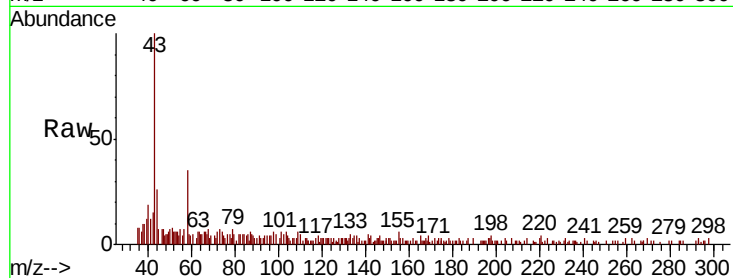
14B-2

Tot Ion: 58 Resp: 1950

Ion Ratio Lower Upper

58 100

43 333.6 261.4 392.2



#18

Methylene Chloride

Concen: 0.338 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Tgt Ion: 84 Resp: 2490

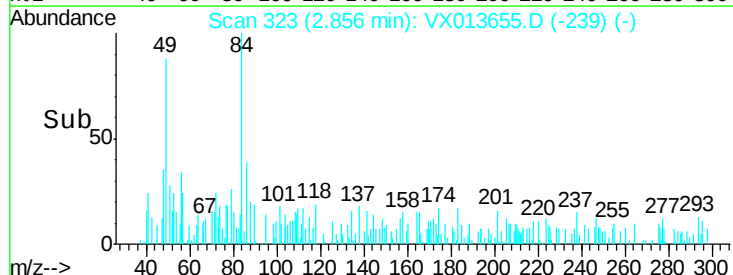
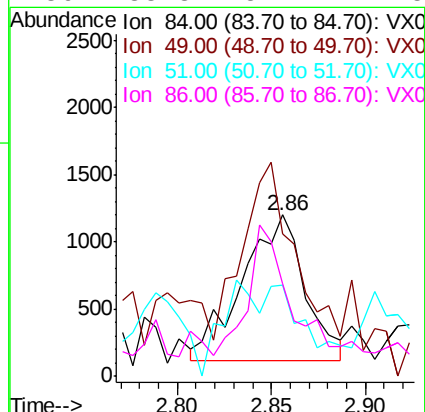
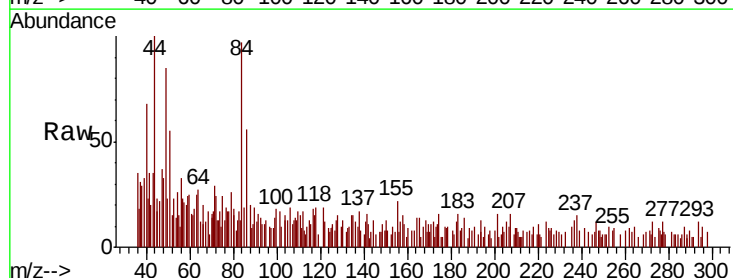
Ion Ratio Lower Upper

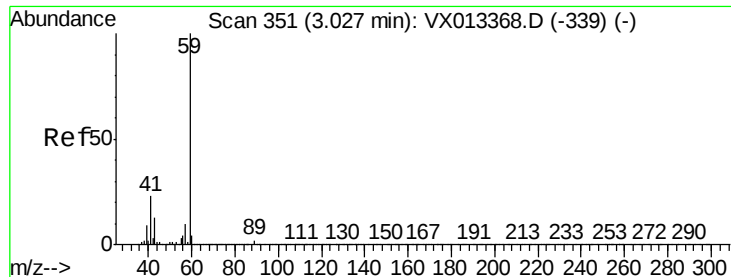
84 100

49 81.7 96.8 145.2#

51 48.9 30.0 45.0#

86 38.3 51.7 77.5#





#23

tert-Butyl Alcohol

Concen: 3.675 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampled :

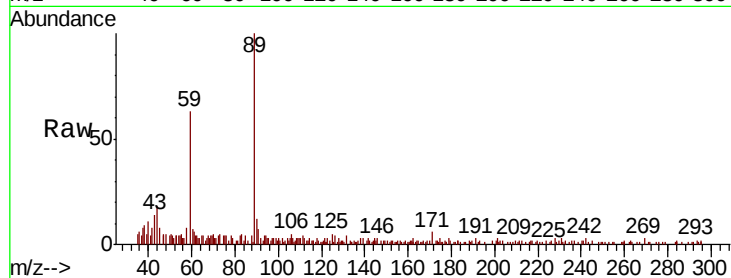
14B-2

Tot Ion: 59 Resp: 7406

Ion Ratio Lower Upper

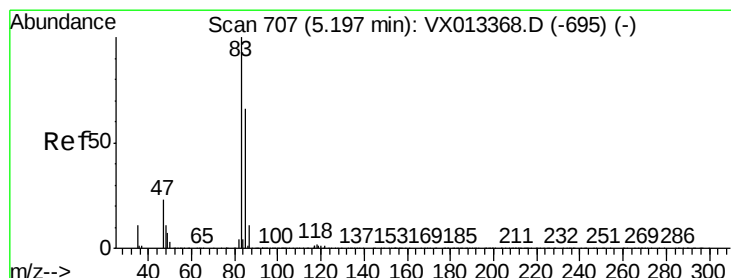
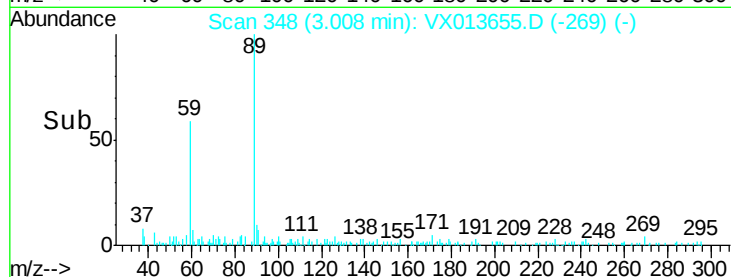
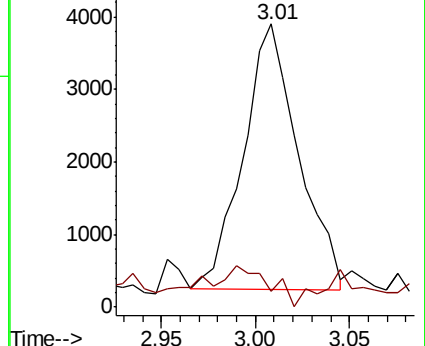
59 100

52 2.1 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#25

Chloroform

Concen: 20.629 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013655.D

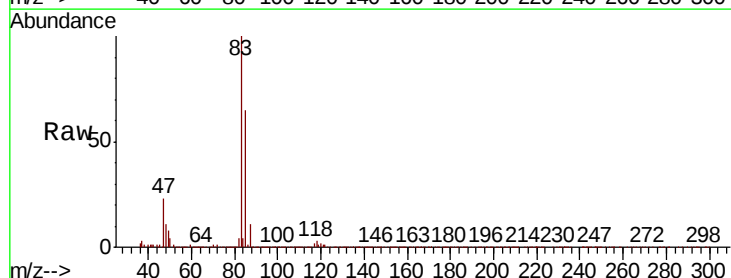
Acq: 27 Nov 2019 16:32

Tgt Ion: 83 Resp: 253253

Ion Ratio Lower Upper

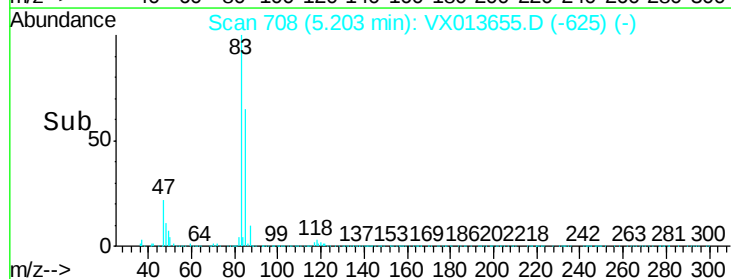
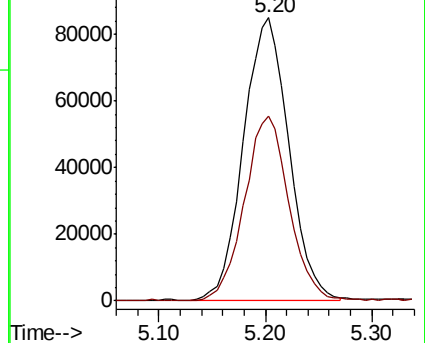
83 100

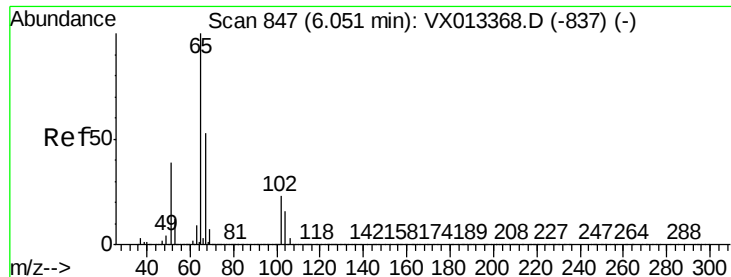
85 64.9 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 28.790 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

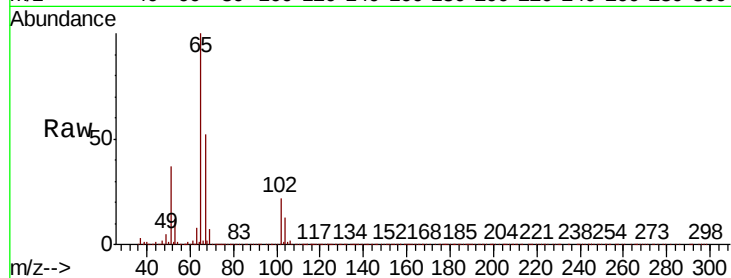
14B-2

Tot Ion: 65 Resp: 223721

Ion Ratio Lower Upper

65 100

67 52.6 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.05

80000

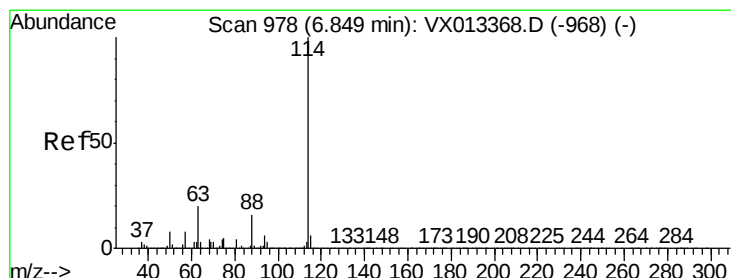
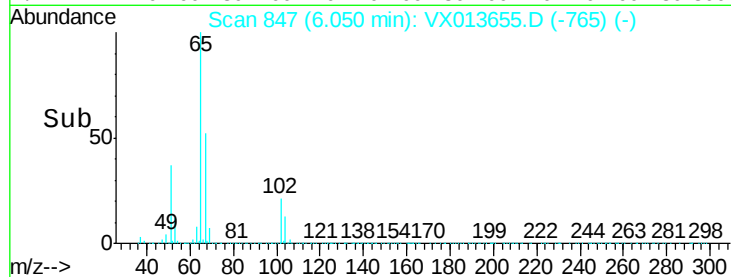
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

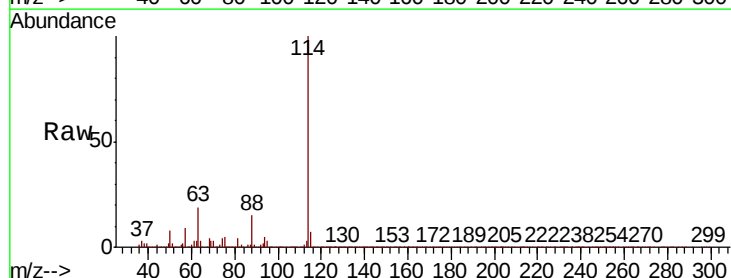
Tgt Ion: 114 Resp: 527134

Ion Ratio Lower Upper

114 100

63 19.8 16.1 24.1

88 15.5 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

300000

250000

200000

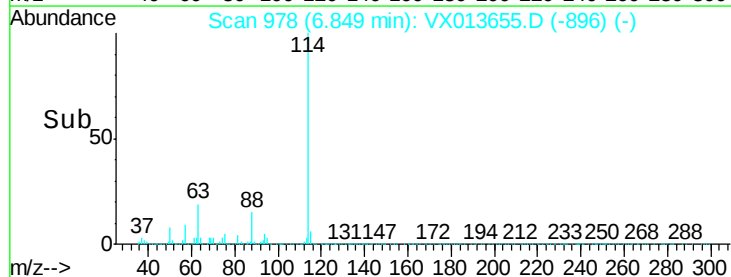
150000

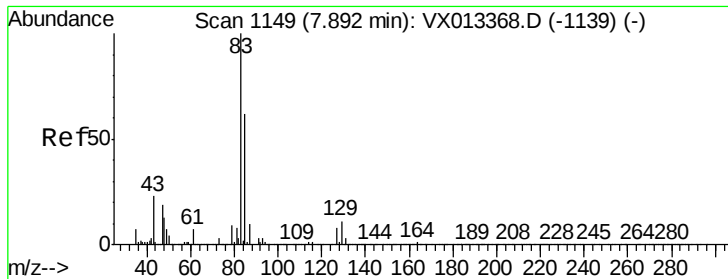
100000

50000

0

Time-->





#41

Bromodichloromethane

Concen: 4.708 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampled :

14B-2

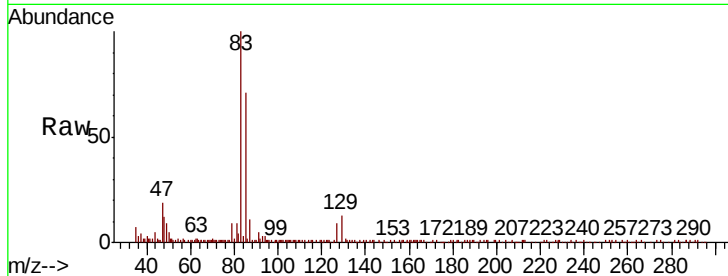
Tot Ion: 83 Resp: 38621

Ion Ratio Lower Upper

83 100

85 69.9 49.3 73.9

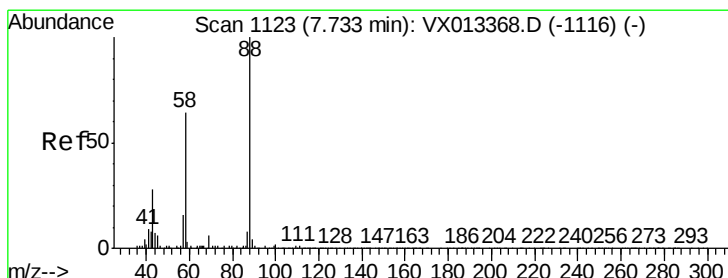
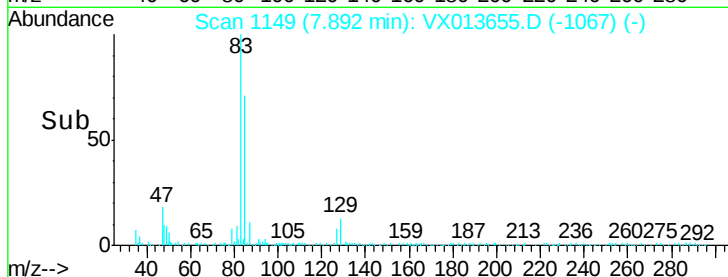
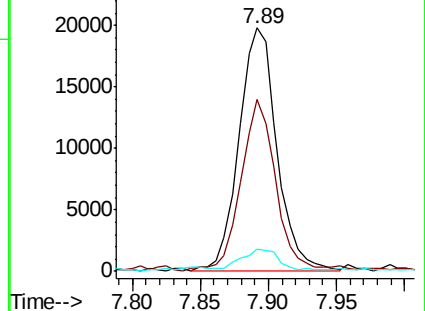
127 8.2 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 1.035 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

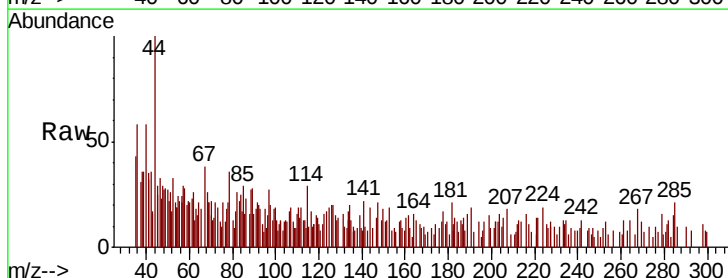
Tgt Ion: 88 Resp: 178

Ion Ratio Lower Upper

88 100

43 0.0 26.1 39.1#

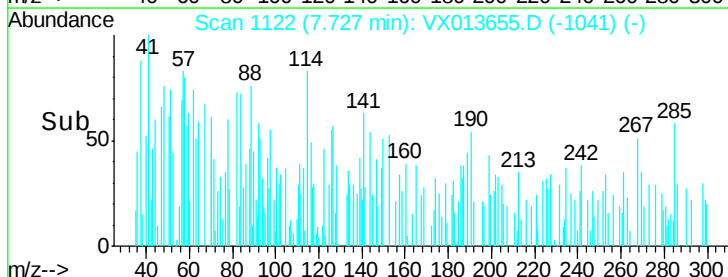
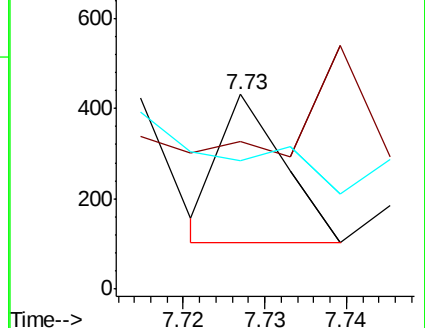
58 0.0 55.8 83.8#

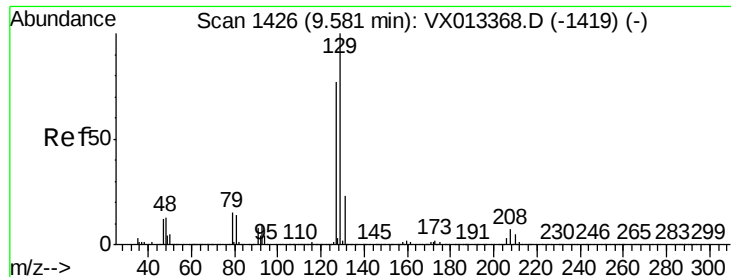


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#53

Dibromochloromethane

Concen: 0.421 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampled :

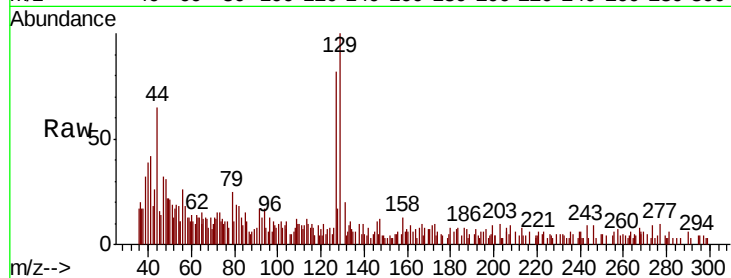
14B-2

Tot Ion:129 Resp: 2777

Ion Ratio Lower Upper

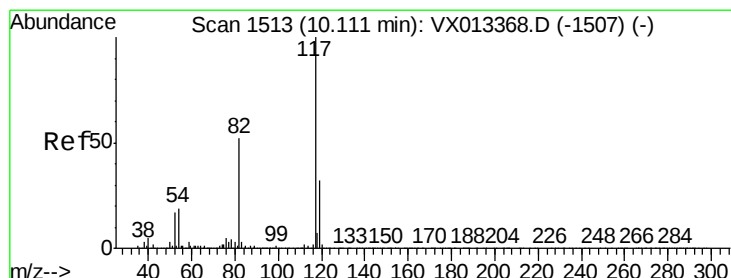
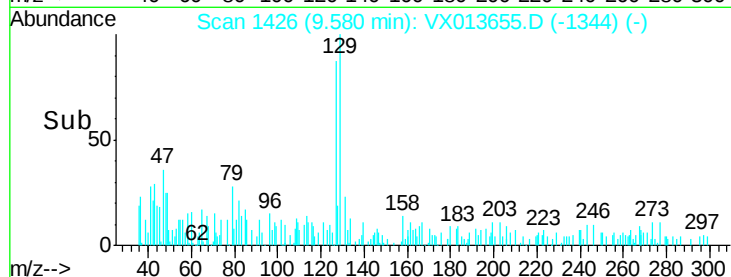
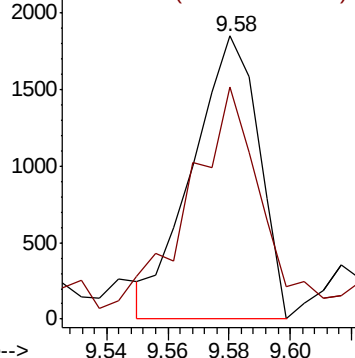
129 100

127 62.7 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

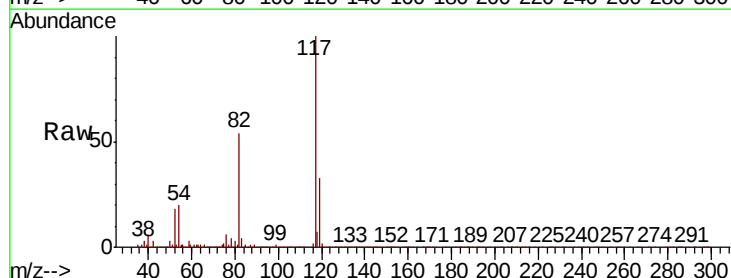
Tgt Ion:117 Resp: 444340

Ion Ratio Lower Upper

117 100

82 55.3 43.7 65.5

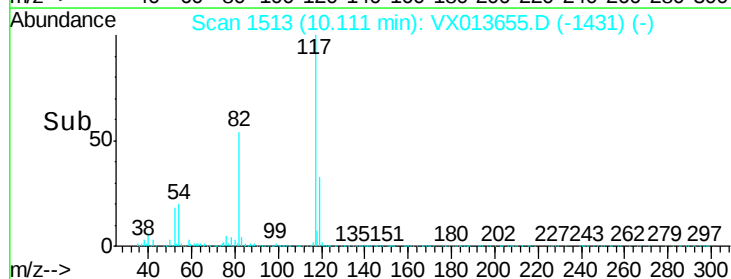
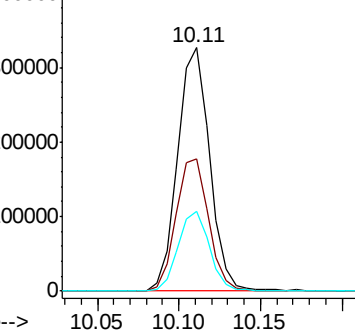
119 32.5 25.5 38.3

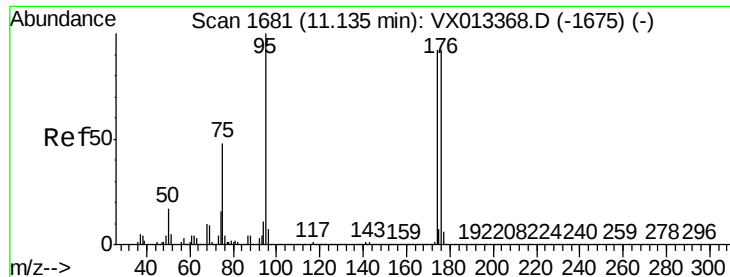


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 28.131 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

14B-2

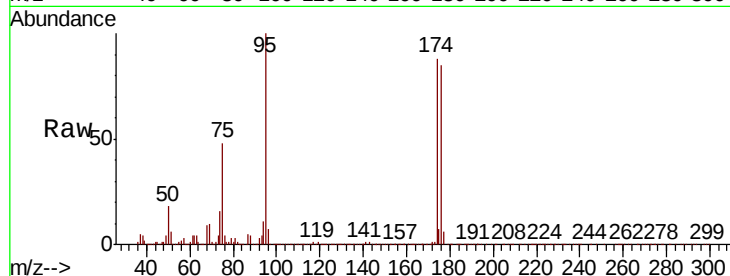
Tot Ion: 95 Resp: 200903

Ion Ratio Lower Upper

95 100

174 90.0 70.2 105.2

176 86.8 68.3 102.5



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.13

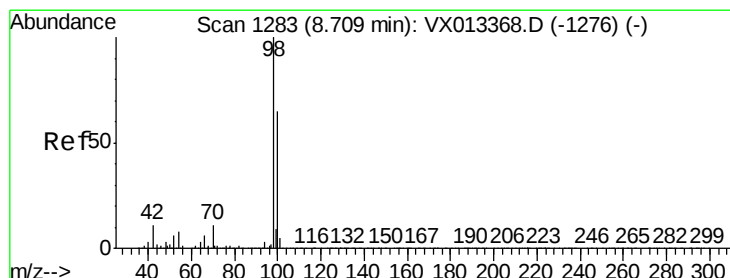
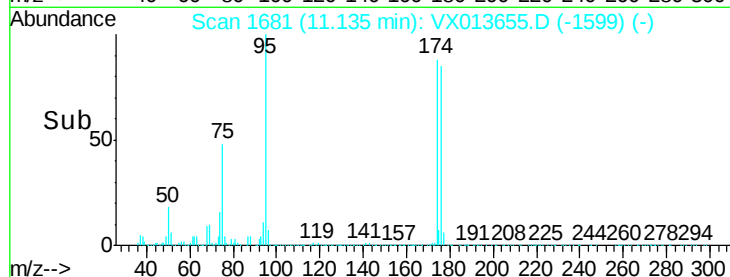
150000

100000

50000

0

Time-->



#63

Toluene-d8

Concen: 30.228 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013655.D

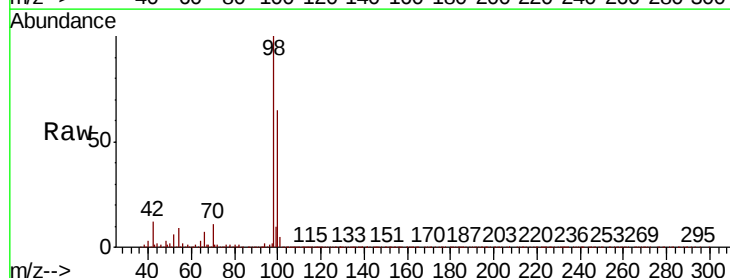
Acq: 27 Nov 2019 16:32

Tgt Ion: 98 Resp: 607377

Ion Ratio Lower Upper

98 100

100 65.8 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

400000

300000

200000

100000

0

Time-->

