

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX042018\
 Data File : VX001029.D
 Acq On : 21 Apr 2018 00:46
 Operator : JC/MD
 Sample : J2377-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 21 05:41:31 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	237709	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	332645	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	195503	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	154512	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
35) Dibromofluoromethane	5.51	113	119057	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
50) Toluene-d8	8.72	98	468514	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.14	95	176509	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	

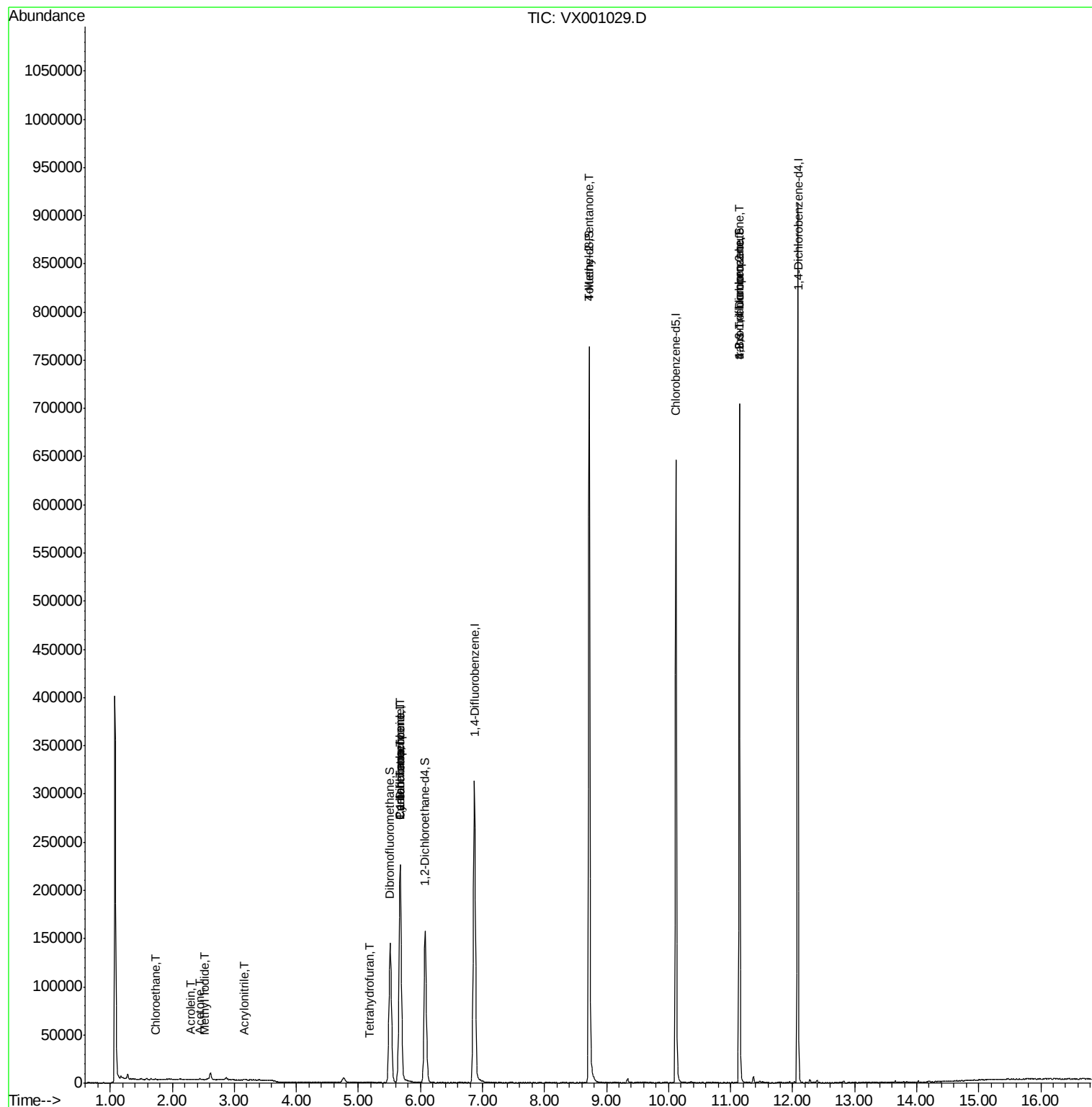
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	358	Below Cal	#	2
6) Chloroethane	1.74	64	453	0.27	ug/l #	43
10) Methyl Iodide	2.53	142	164	7.66	ug/l #	55
13) Acrolein	2.31	56	45	11.24	ug/l #	1
15) Acrylonitrile	3.15	53	319	0.26	ug/l #	54
16) Acetone	2.45	43	1317	1.16	ug/l	100
20) Methylene Chloride	2.87	84	1116	Below Cal		92
29) Tetrahydrofuran	5.18	42	367	0.33	ug/l #	43
31) Cyclohexane	5.67	56	4129	0.97	ug/l #	11
36) 1,1-Dichloropropene	5.68	75	14851	3.80	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21356	5.40	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	2376	0.64	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	90026	26.54	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	90026	79.41	ug/l #	8

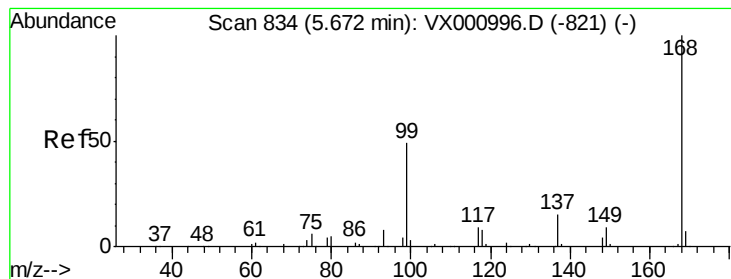
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX001029.D

Acq: 21 Apr 2018 00:46

Instrument :

MSVOA_X

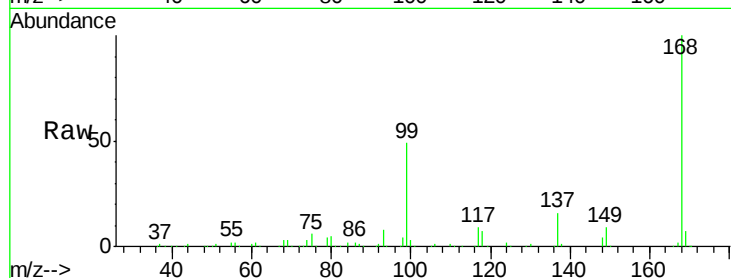
ClientSampled :

Tot Ion:168 Resp: 237709

Ion Ratio Lower Upper

168 100

99 48.6 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

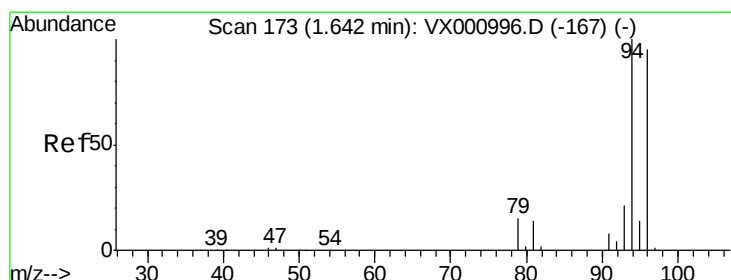
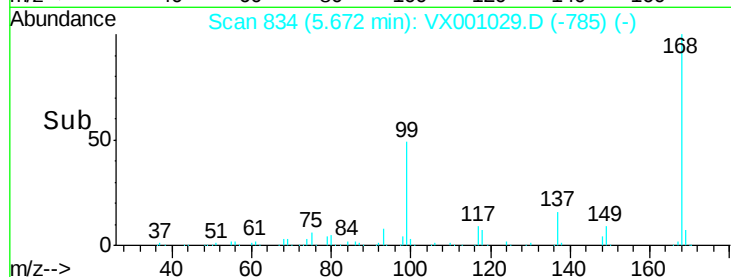
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX001029.D

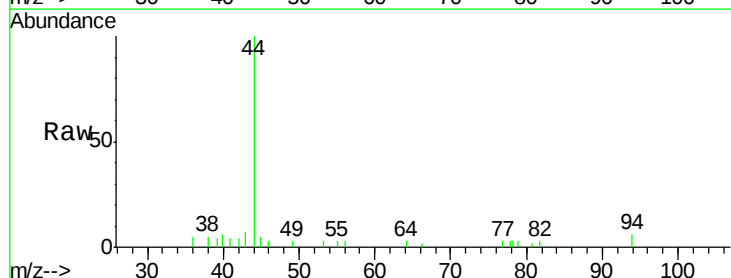
Acq: 21 Apr 2018 00:46

Tgt Ion: 94 Resp: 358

Ion Ratio Lower Upper

94 100

96 0.0 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

150

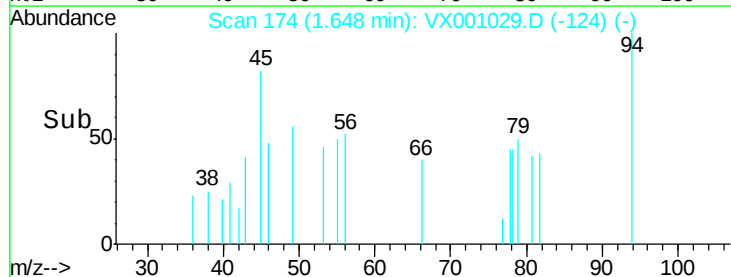
100

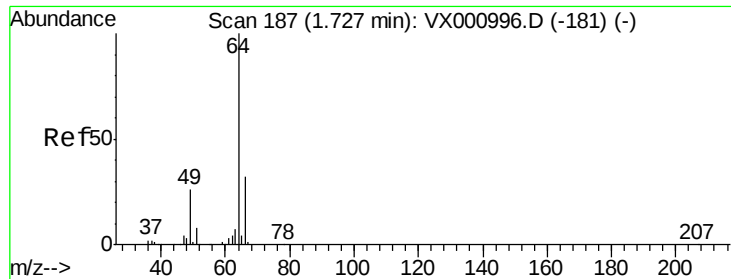
50

0

Time-->

1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.27 ug/l

RT: 1.74 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

Instrument :

MSVOA_X

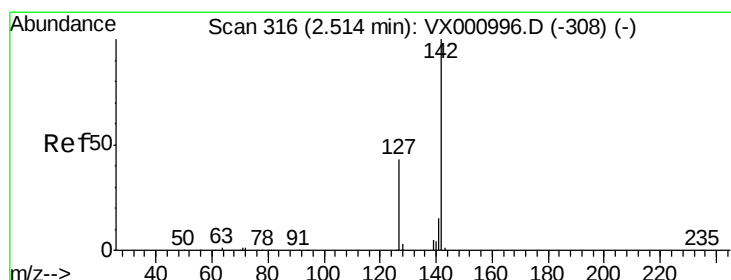
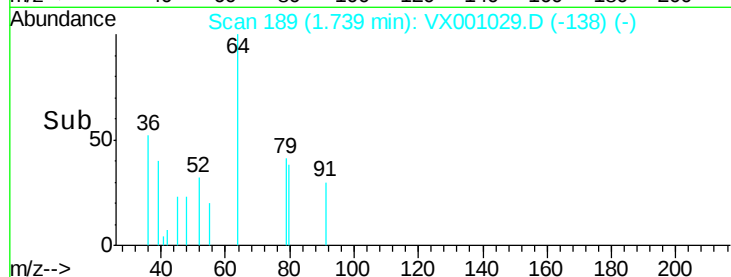
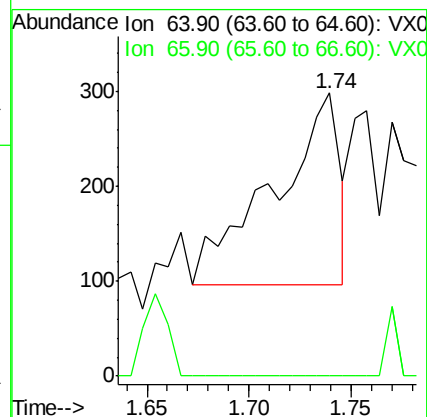
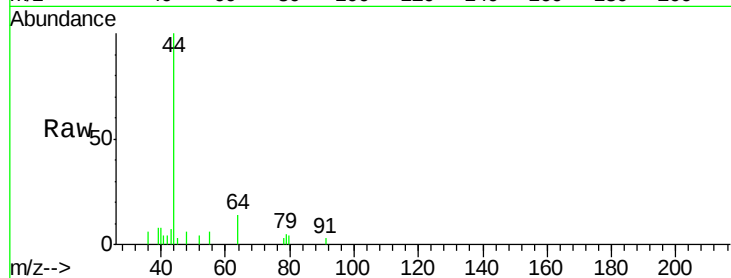
ClientSampleId :

Tot Ion: 64 Resp: 453

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#10

Methyl Iodide

Concen: 7.66 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

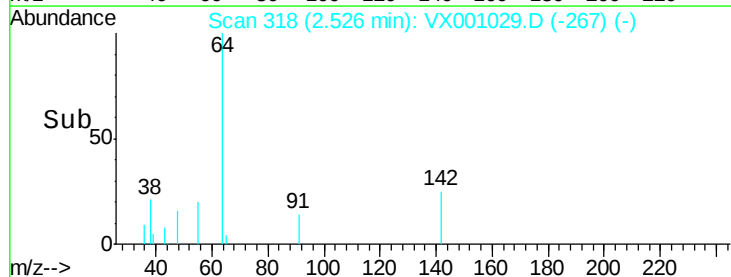
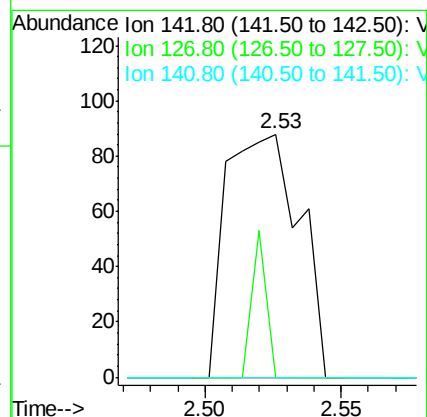
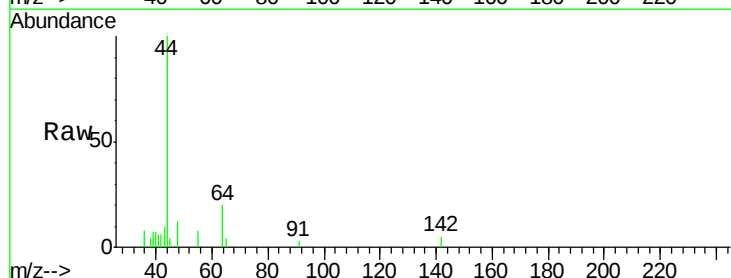
Tgt Ion: 142 Resp: 164

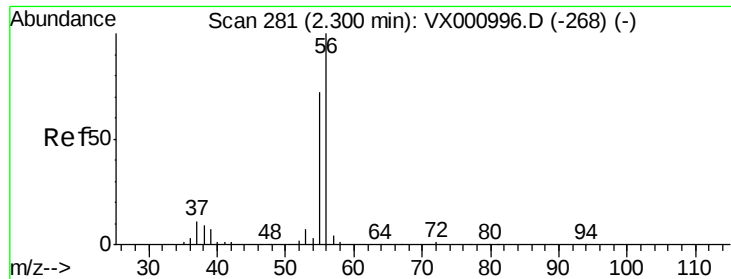
Ion Ratio Lower Upper

142 100

127 11.6 34.0 51.0#

141 0.0 11.4 17.2#





#13

Acrolein

Concen: 11.24 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

Instrument :

MSVOA_X

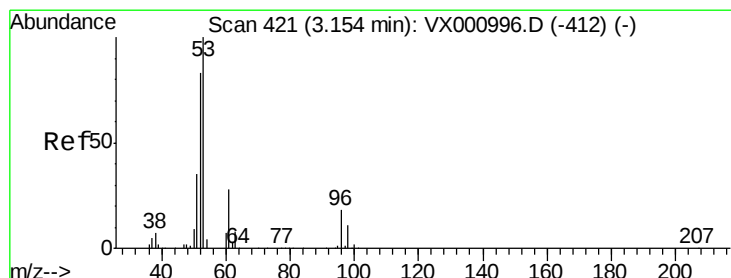
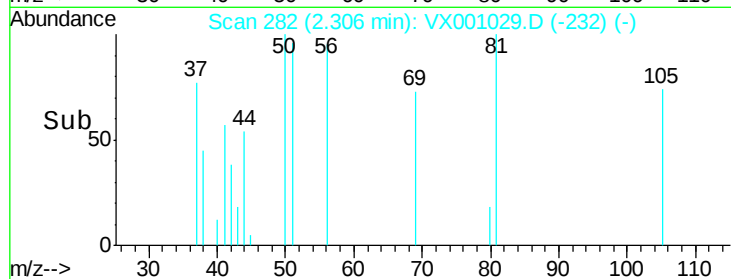
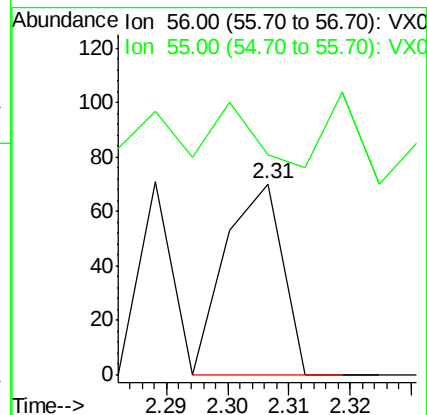
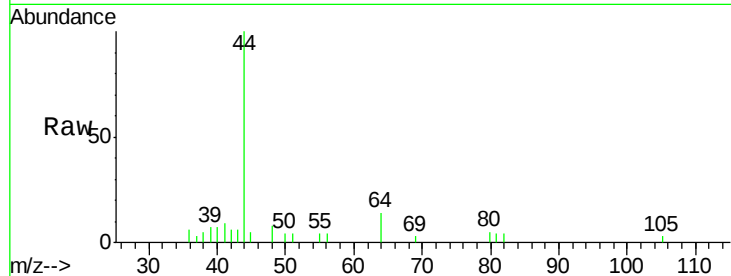
ClientSampled :

Tot Ion: 56 Resp: 45

Ion Ratio Lower Upper

56 100

55 475.6 57.4 86.2#



#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

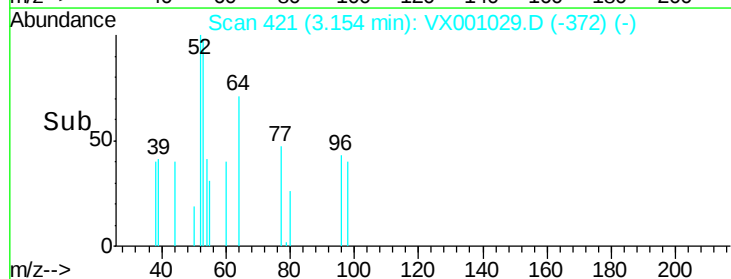
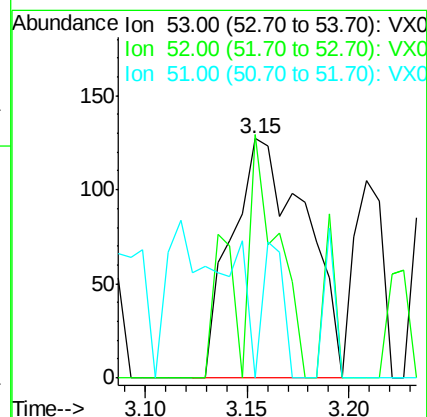
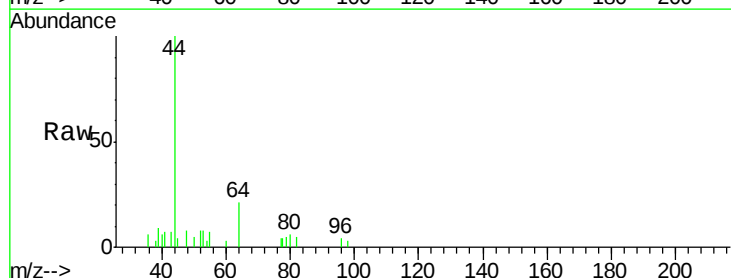
Tgt Ion: 53 Resp: 319

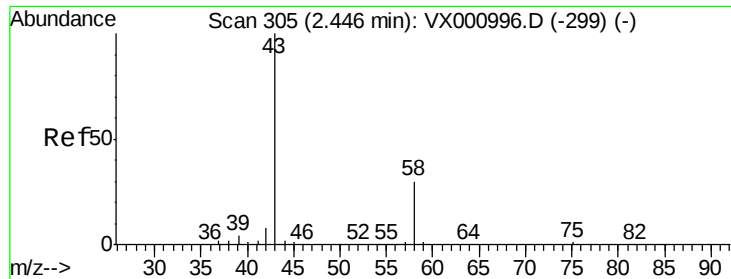
Ion Ratio Lower Upper

53 100

52 37.6 66.4 99.6#

51 16.0 29.0 43.6#





#16

Acetone

Concen: 1.16 ua/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

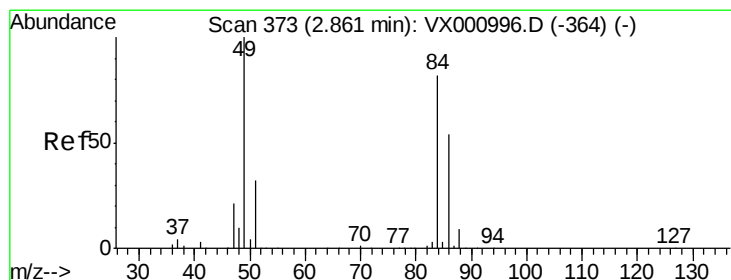
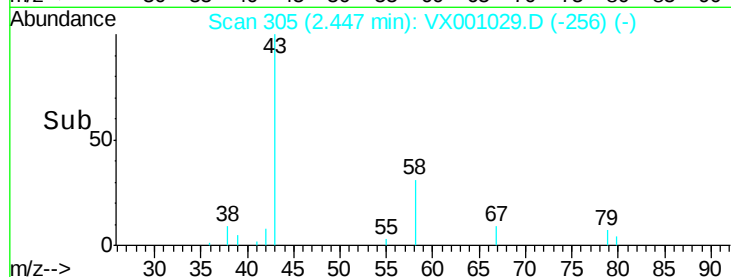
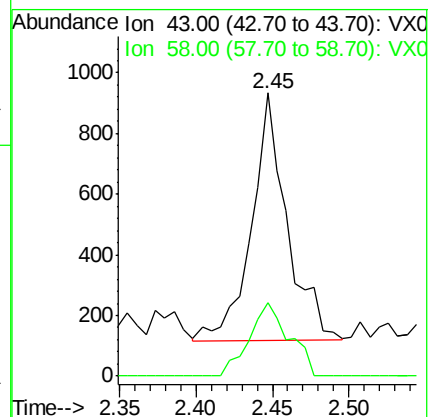
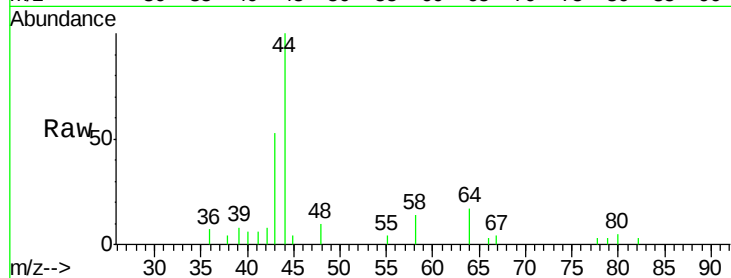
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1317

Ion Ratio Lower Upper

43 100

58 29.8 23.7 35.5



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

Tgt Ion: 84 Resp: 1116

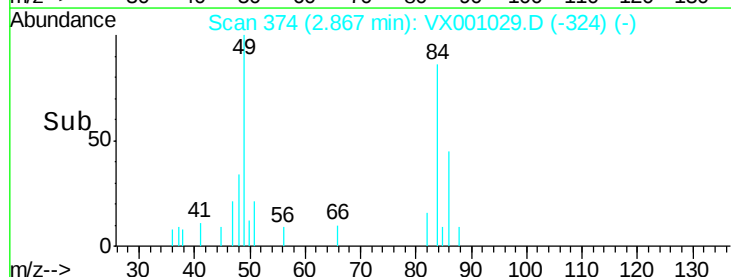
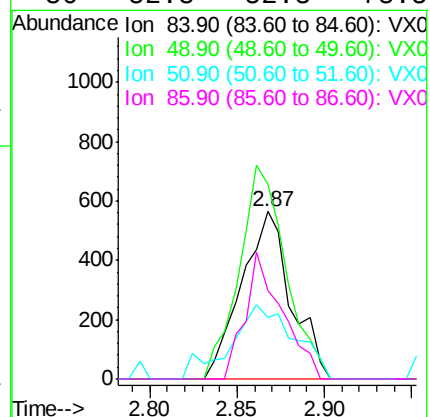
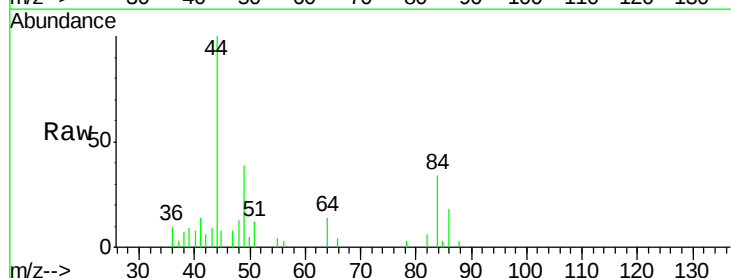
Ion Ratio Lower Upper

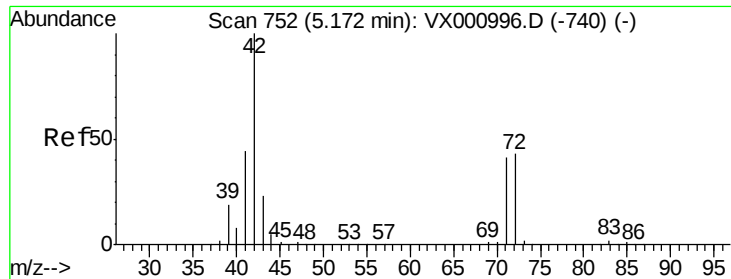
84 100

49 116.5 97.1 145.7

51 36.3 30.8 46.2

86 52.8 52.3 78.5





#29

Tetrahydrofuran

Concen: 0.33 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

Instrument :

MSVOA_X

ClientSampled :

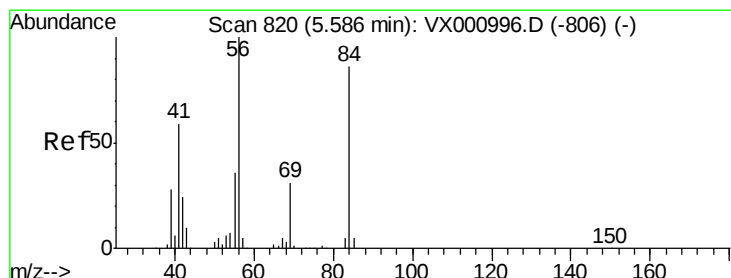
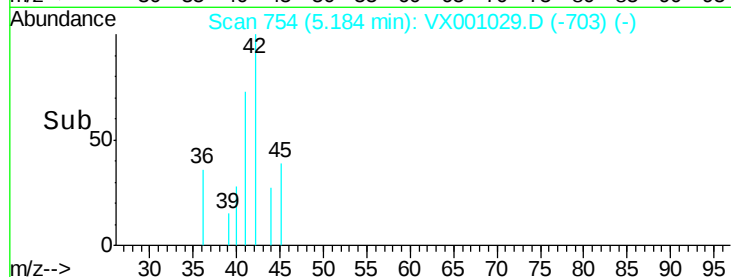
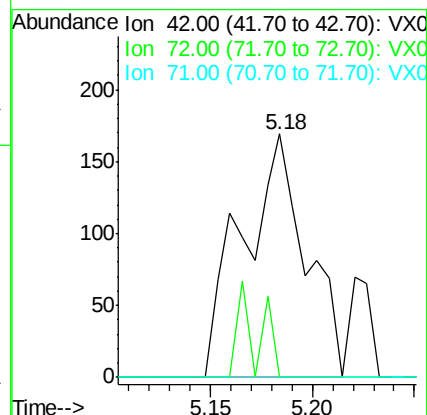
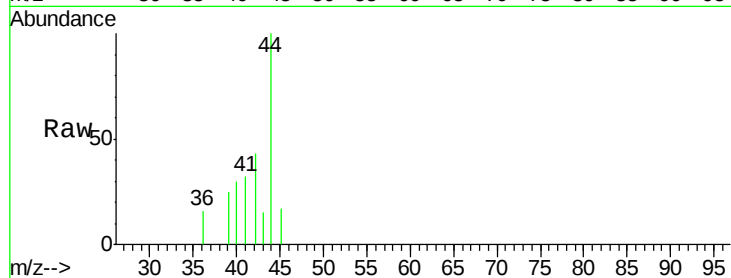
Tot Ion: 42 Resp: 367

Ion Ratio Lower Upper

42 100

72 12.3 34.6 52.0#

71 0.0 32.6 49.0#



#31

Cyclohexane

Concen: 0.97 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

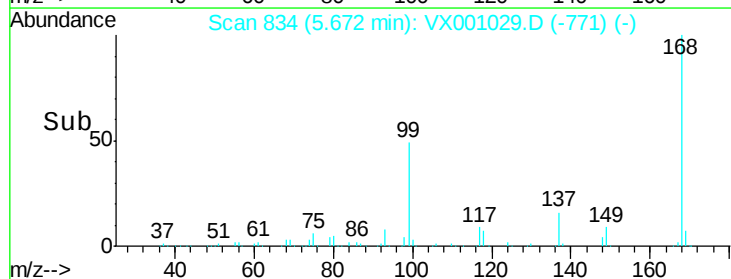
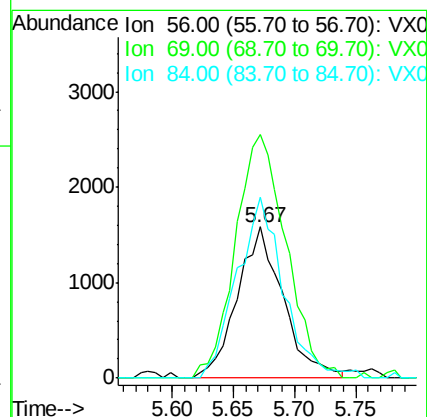
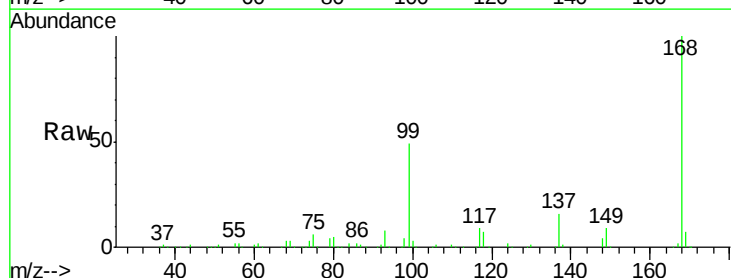
Tgt Ion: 56 Resp: 4129

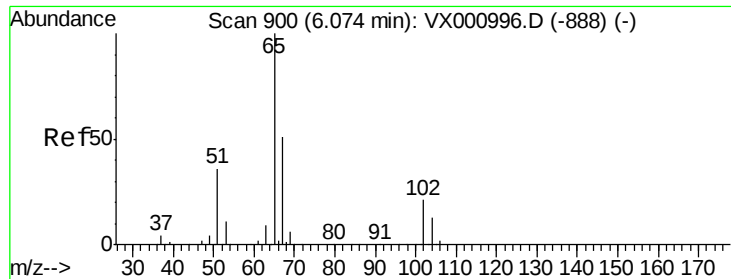
Ion Ratio Lower Upper

56 100

69 160.9 24.6 36.8#

84 119.6 69.0 103.6#

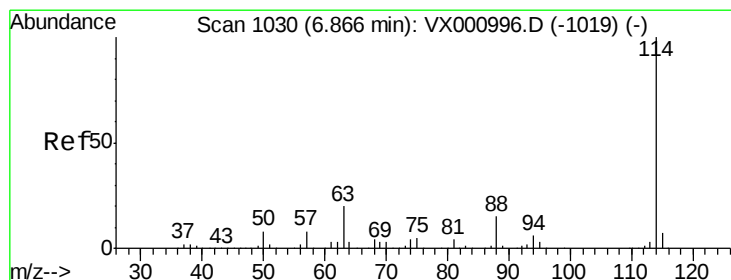
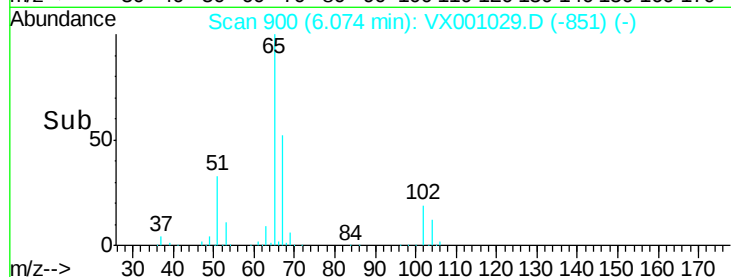
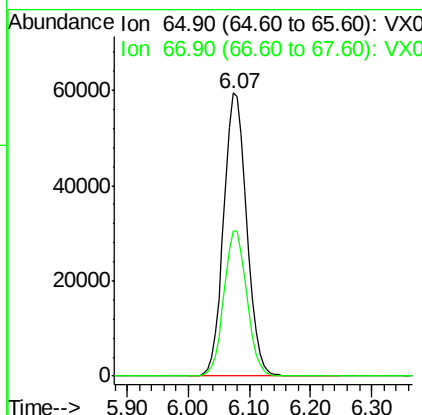
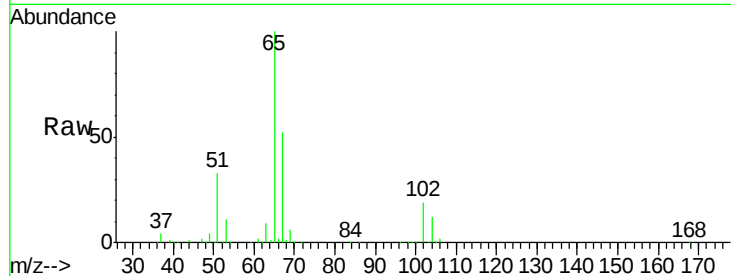




#33
 1,2-Dichloroethane-d4
 Concen: 51.28 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001029.D
 Acq: 21 Apr 2018 00:46

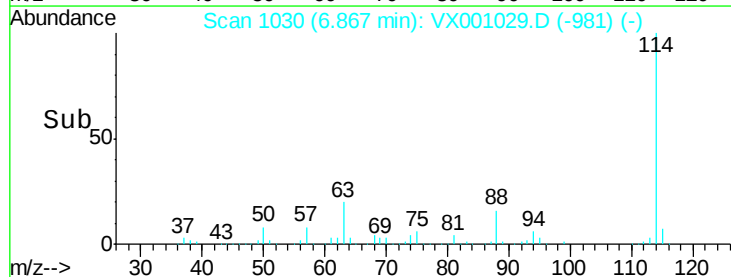
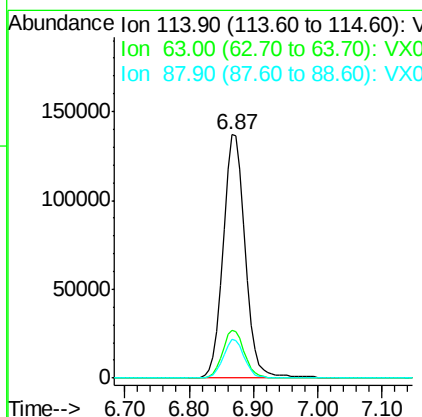
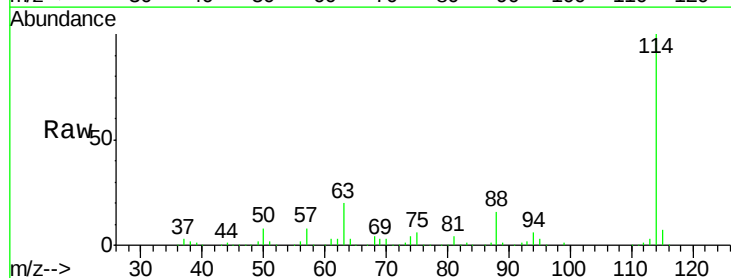
Instrument :
 MSVOA_X
 ClientSampleId :

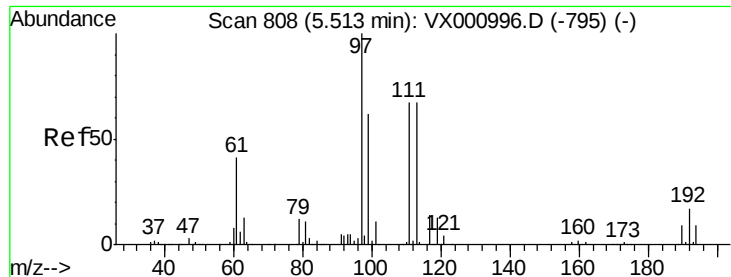
Tot Ion: 65 Resp: 154512
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX001029.D
 Acq: 21 Apr 2018 00:46

Tgt Ion: 114 Resp: 332645
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.4
 88 15.7 0.0 29.8

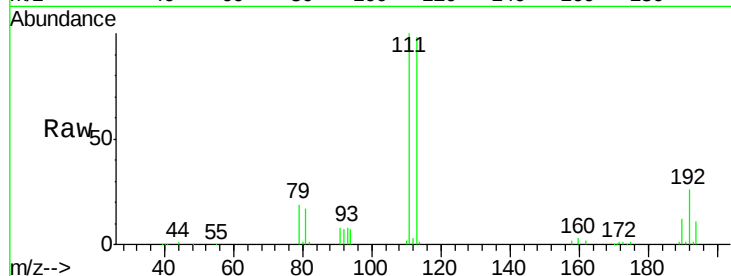




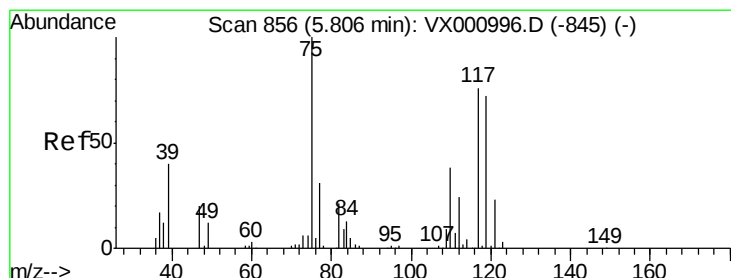
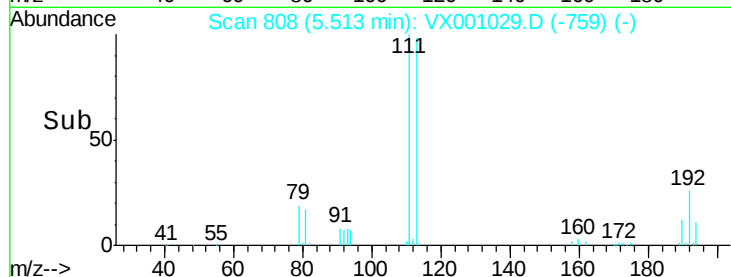
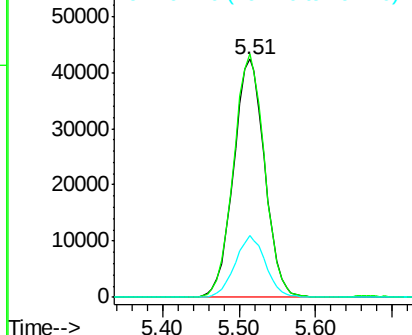
#35
 Dibromofluoromethane
 Concen: 46.94 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: VX001029.D
 Acq: 21 Apr 2018 00:46

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:113 Resp: 119057
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.4 122.2
 192 25.4 20.4 30.6

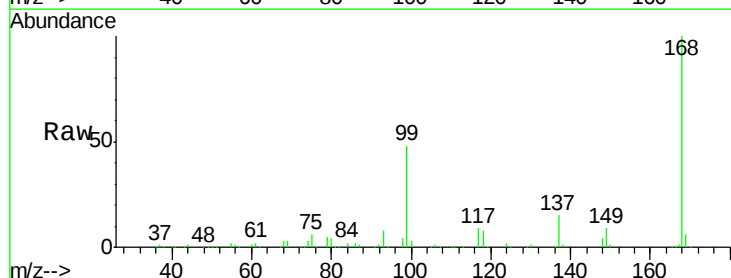


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

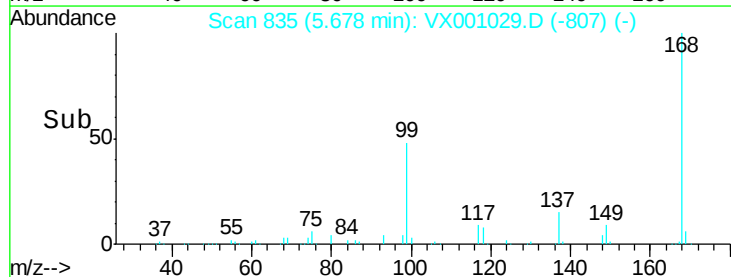
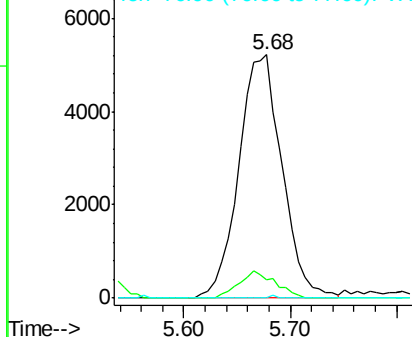


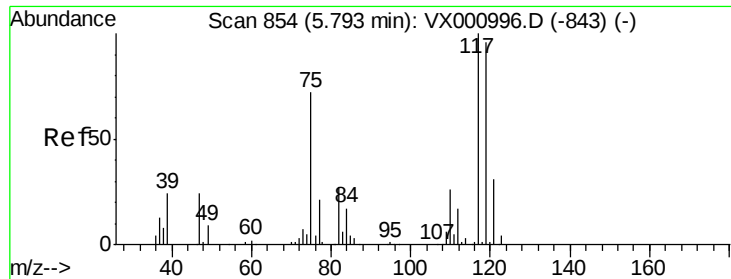
#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX001029.D
 Acq: 21 Apr 2018 00:46

Tgt Ion: 75 Resp: 14851
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.7 56.1#
 77 0.1 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: 5.40 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

Instrument :

MSVOA_X

ClientSampled :

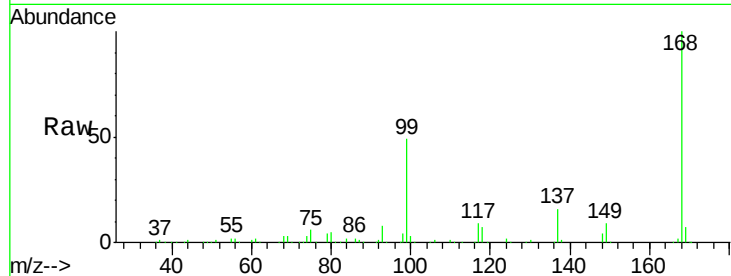
Tot Ion:117 Resp: 21356

Ion Ratio Lower Upper

117 100

119 5.1 76.5 114.7#

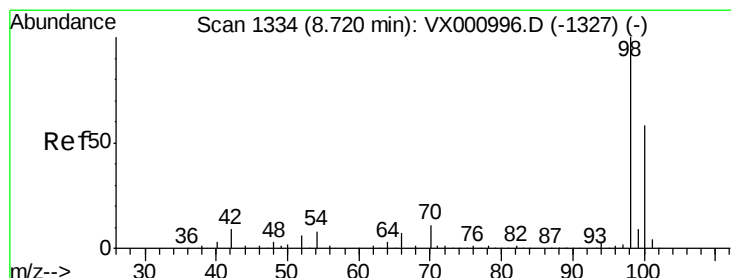
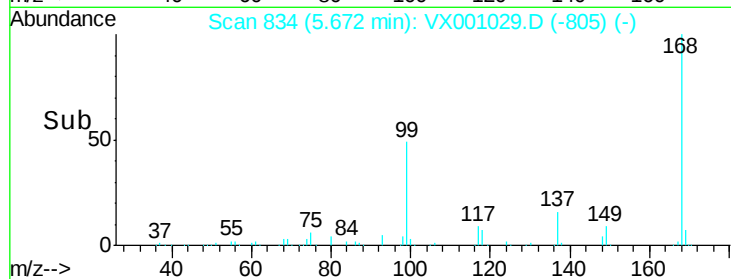
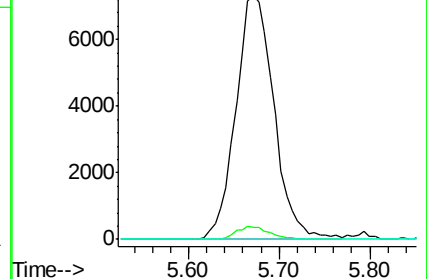
121 0.0 24.5 36.7#



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: 49.95 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001029.D

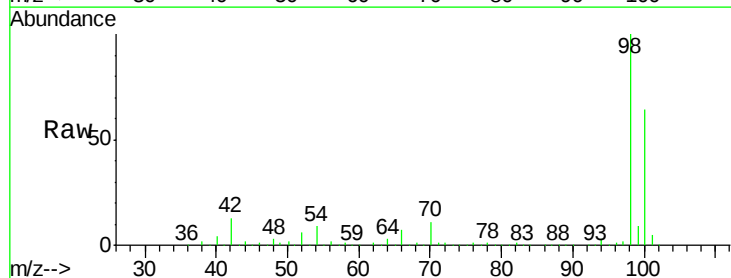
Acq: 21 Apr 2018 00:46

Tgt Ion: 98 Resp: 468514

Ion Ratio Lower Upper

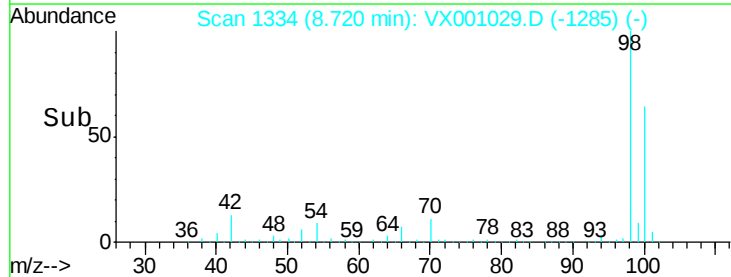
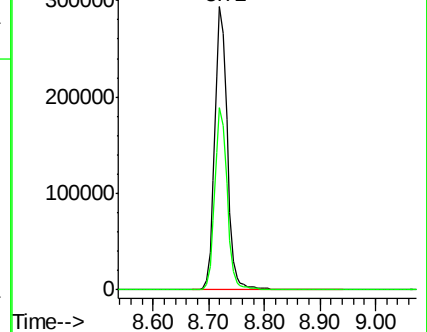
98 100

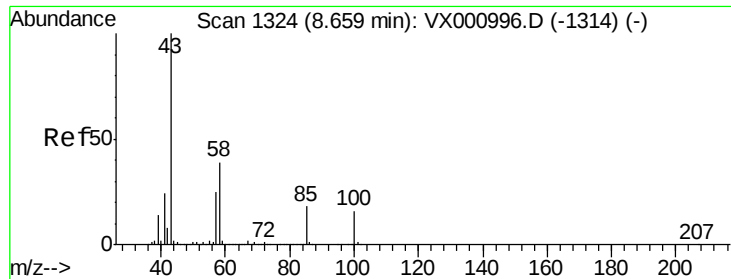
100 63.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

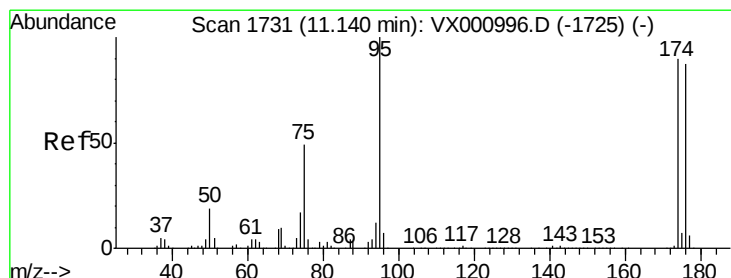
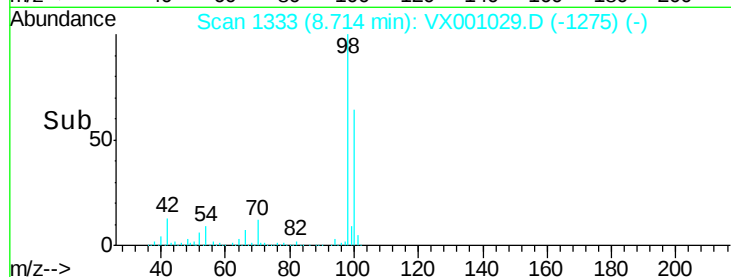
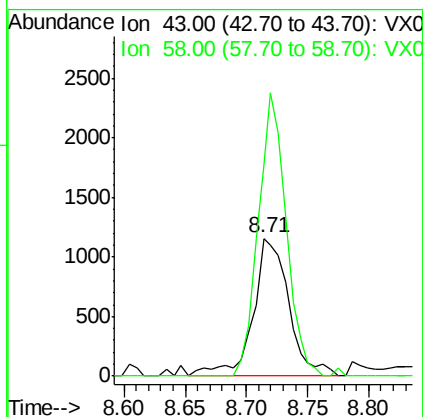
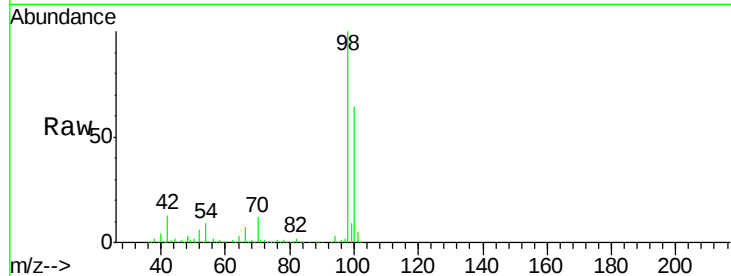




#51
 4-Methyl-2-Pentanone
 Concen: 0.64 ug/l
 RT: 8.71 min Scan# 1333
 Delta R.T. 0.06 min
 Lab File: VX001029.D
 Acq: 21 Apr 2018 00:46

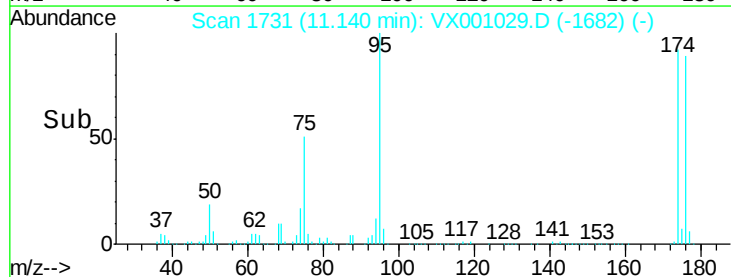
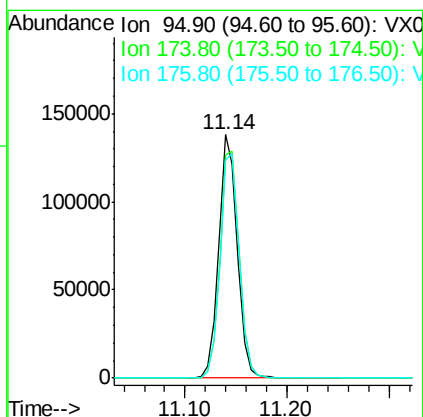
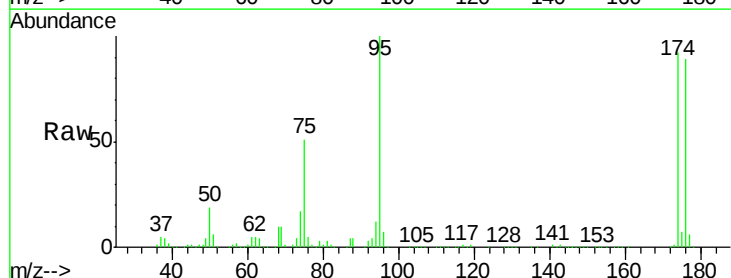
Instrument :
 MSVOA_X
 ClientSampled :

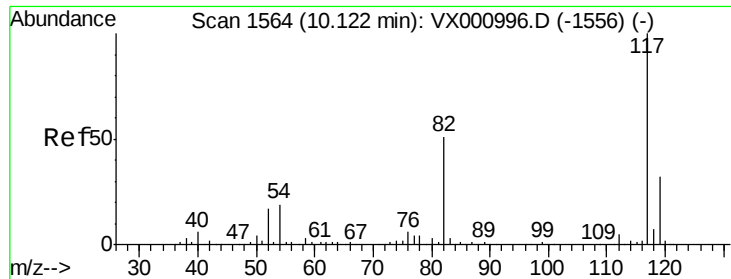
Tot Ion: 43 Resp: 2376
 Ion Ratio Lower Upper
 43 100
 58 159.2 30.2 45.4#



#62
 4-Bromofluorobenzene
 Concen: 44.84 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX001029.D
 Acq: 21 Apr 2018 00:46

Tgt Ion: 95 Resp: 176509
 Ion Ratio Lower Upper
 95 100
 174 97.1 0.0 198.4
 176 95.2 0.0 192.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

Instrument :

MSVOA_X

ClientSampleId :

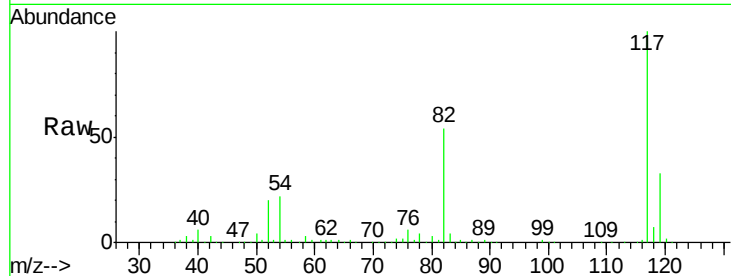
Tot Ion:117 Resp: 309275

Ion Ratio Lower Upper

117 100

82 54.4 40.6 60.8

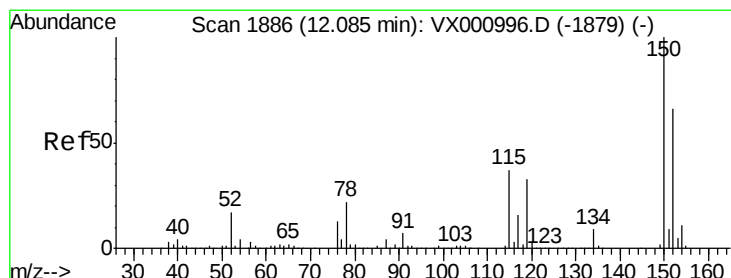
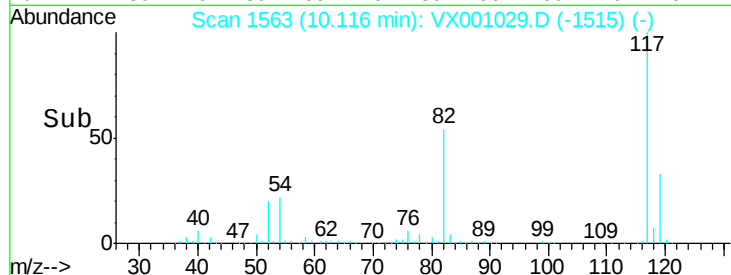
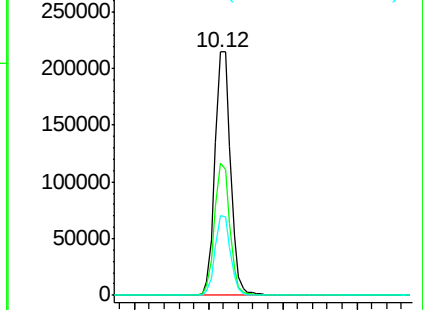
119 32.6 26.0 39.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

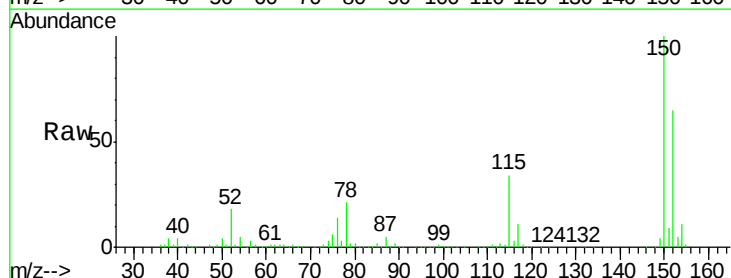
Tgt Ion:152 Resp: 195503

Ion Ratio Lower Upper

152 100

115 53.6 38.2 114.6

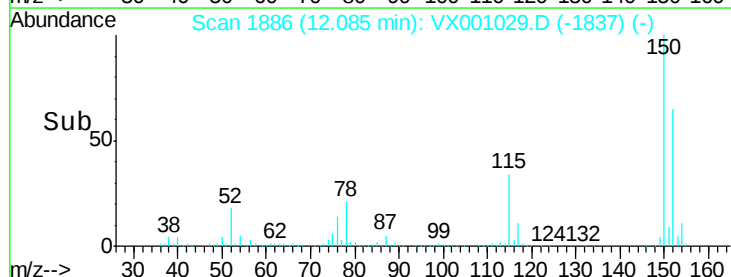
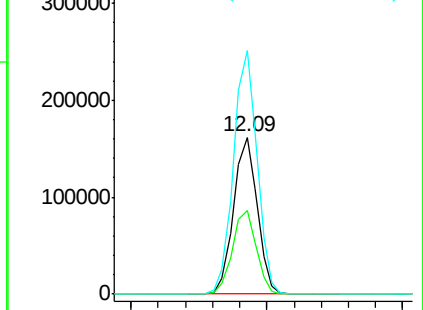
150 155.1 0.0 350.4

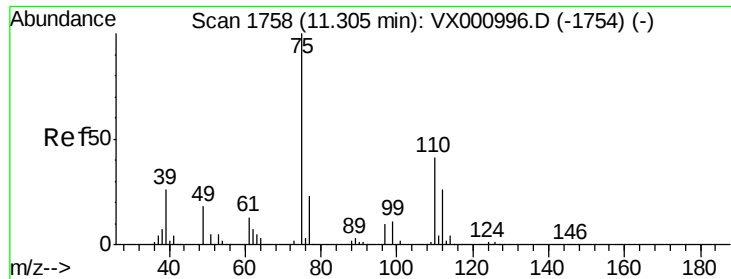


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

Instrument :

MSVOA_X

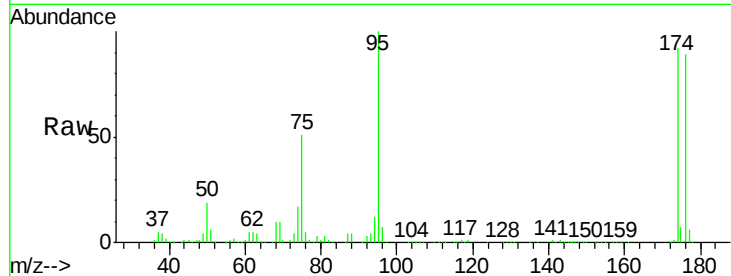
ClientSampleId :

Tot Ion: 75 Resp: 90026

Ion Ratio Lower Upper

75 100

77 1.2 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

60000

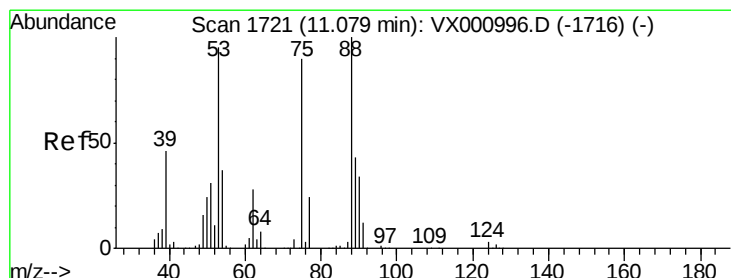
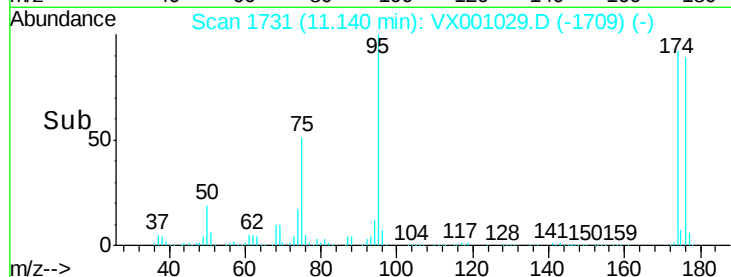
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 79.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001029.D

Acq: 21 Apr 2018 00:46

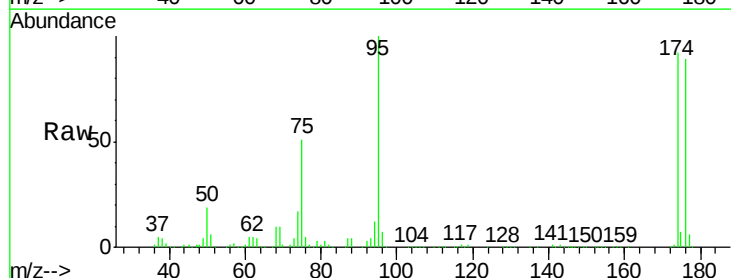
Tgt Ion: 75 Resp: 90026

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

11.14

80000

60000

40000

20000

0

Time-->

11.10 11.20

