

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080818\
 Data File : VX003927.D
 Acq On : 08 Aug 2018 16:51
 Operator : JC/MD
 Sample : J4379-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-107S

Quant Time: Aug 09 03:14:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	320954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	502896	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	476849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	240696	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	223704	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	
35) Dibromofluoromethane	5.51	113	190438	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
50) Toluene-d8	8.72	98	713103	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
62) 4-Bromofluorobenzene	11.14	95	251010	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	

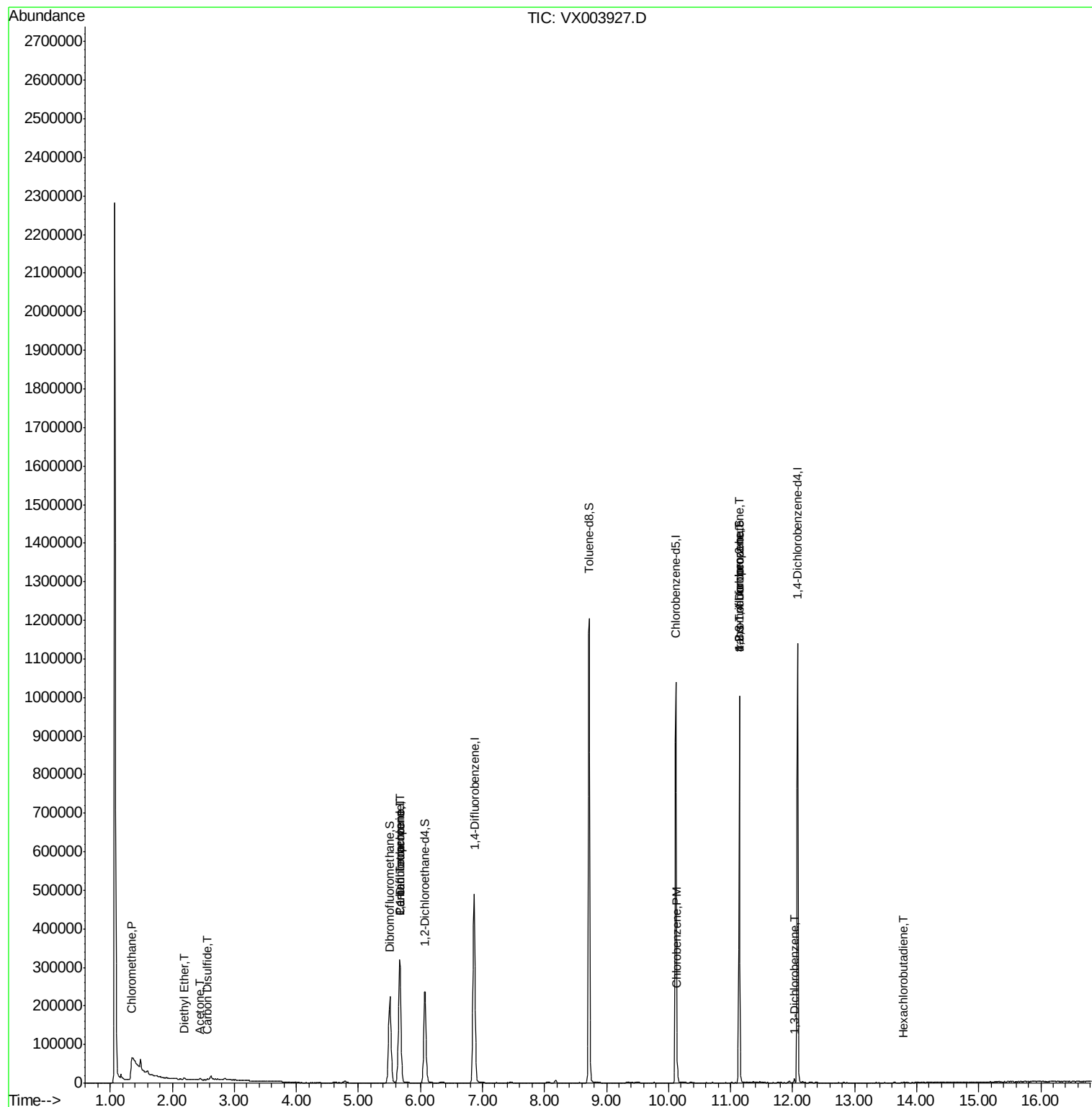
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.35	50	4221	0.95	ug/l	# 57
5) Bromomethane	1.65	94	610	Below	Cal	97
8) Diethyl Ether	2.19	74	978	0.37	ug/l	70
13) Acrolein	2.29	56	281	Below	Cal	# 66
16) Acetone	2.45	43	2972	1.17	ug/l	95
17) Carbon Disulfide	2.57	76	3414	0.79	ug/l	97
20) Methylene Chloride	2.85	84	529	Below	Cal	# 76
36) 1,1-Dichloropropene	5.67	75	21607	3.84	ug/l	# 48
38) Carbon Tetrachloride	5.67	117	27932	5.21	ug/l	# 15
65) Chlorobenzene	10.14	112	15406	1.24	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	119172	22.42	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	119172	60.49	ug/l	# 10
87) 1,3-Dichlorobenzene	12.03	146	2140	0.24	ug/l	98
88) 1,4-Dichlorobenzene	12.03	146	2140	Below	Cal	98
94) Hexachlorobutadiene	13.78	225	215	0.51	ug/l	87

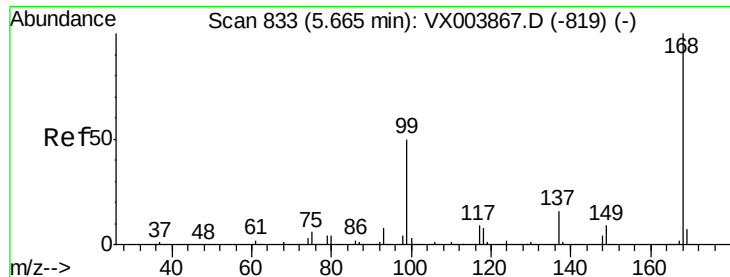
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

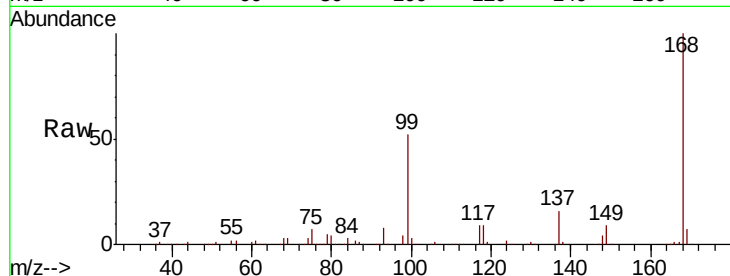
MW-107S

Tot Ion:168 Resp: 320954

Ion Ratio Lower Upper

168 100

99 51.9 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

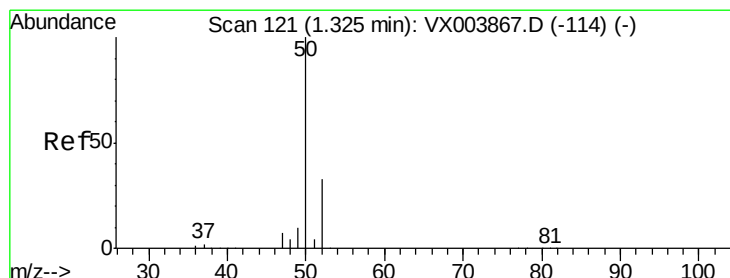
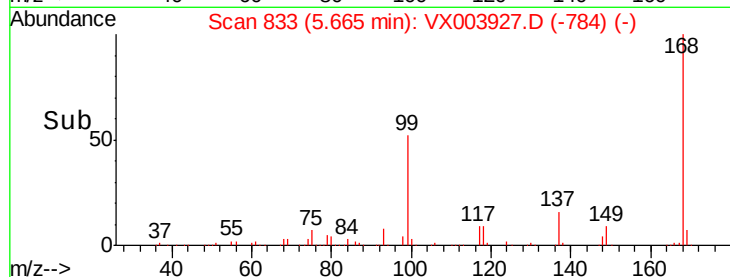
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.95 ug/l

RT: 1.35 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX003927.D

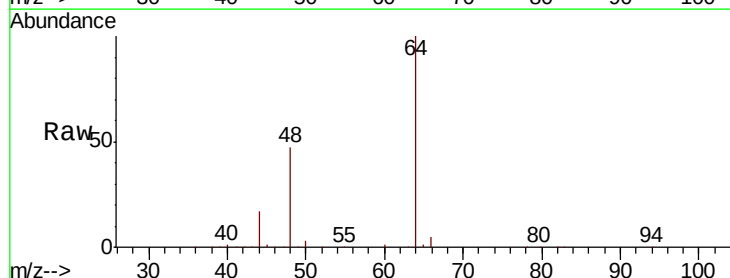
Acq: 08 Aug 2018 16:51

Tgt Ion: 50 Resp: 4221

Ion Ratio Lower Upper

50 100

52 9.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.35

1200

1000

800

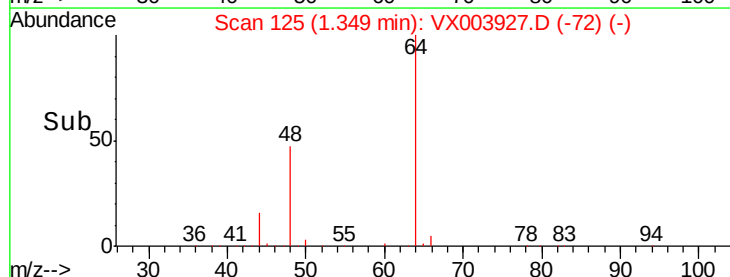
600

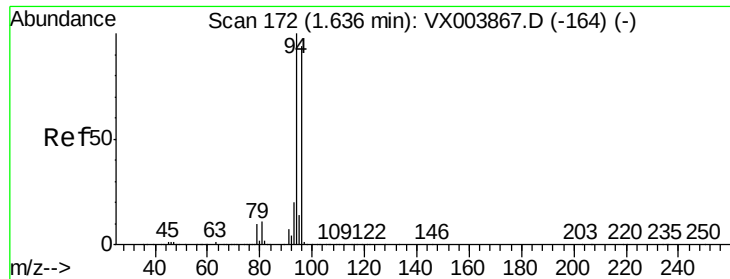
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

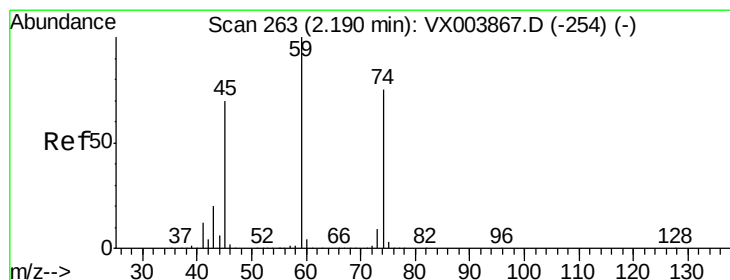
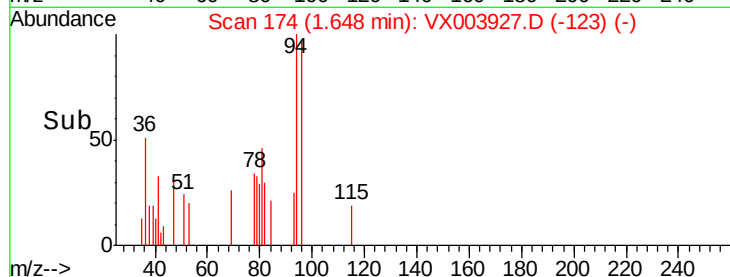
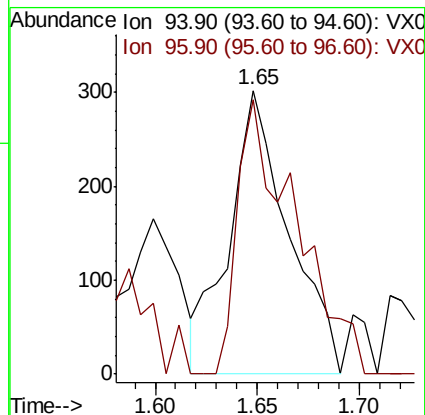
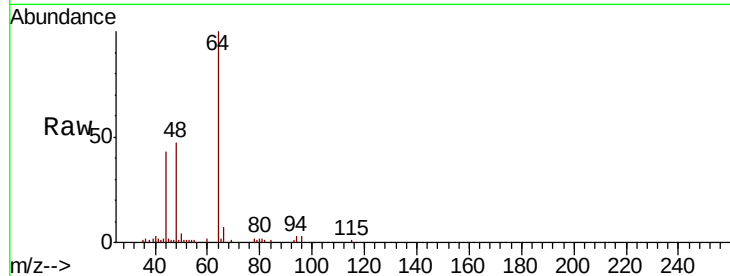
MW-107S

Tot Ion: 94 Resp: 610

Ion Ratio Lower Upper

94 100

96 97.0 75.2 112.8



#8

Diethyl Ether

Concen: 0.37 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003927.D

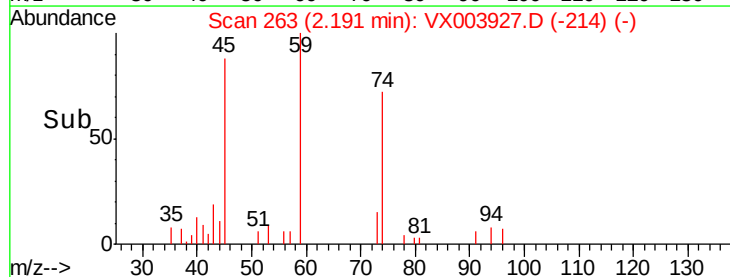
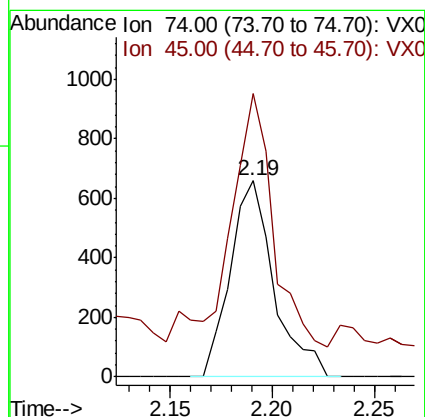
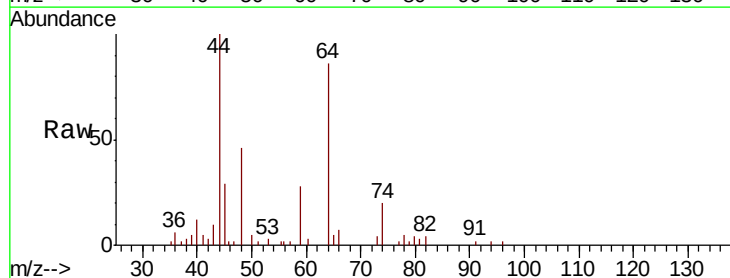
Acq: 08 Aug 2018 16:51

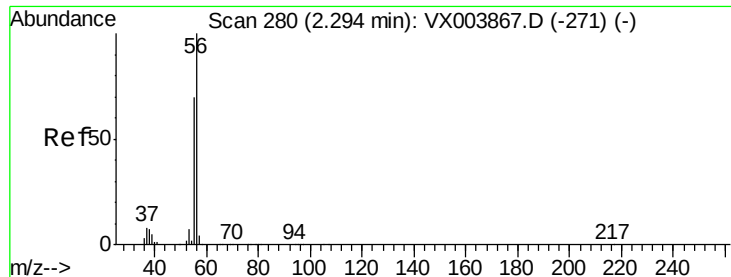
Tgt Ion: 74 Resp: 978

Ion Ratio Lower Upper

74 100

45 126.2 48.3 144.9





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampled :

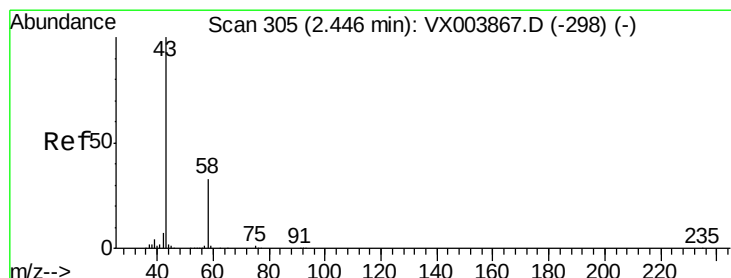
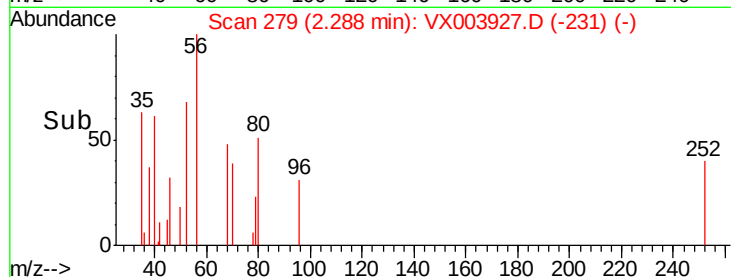
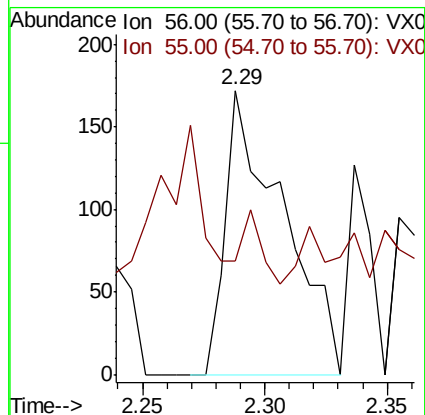
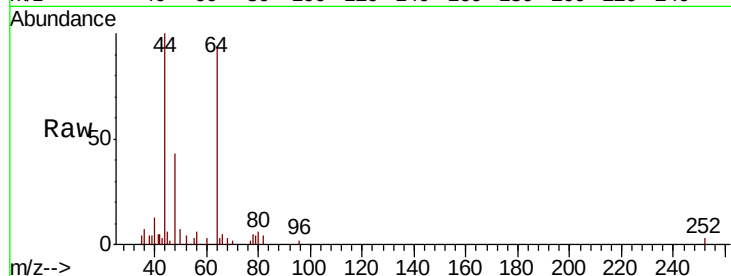
MW-107S

Tot Ion: 56 Resp: 281

Ion Ratio Lower Upper

56 100

55 42.3 56.1 84.1#



#16

Acetone

Concen: 1.17 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003927.D

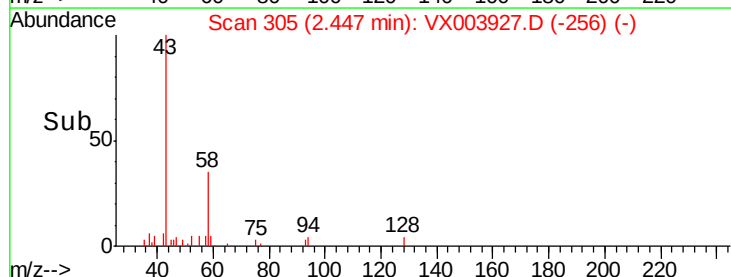
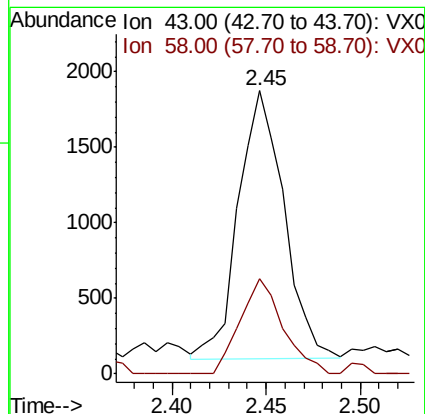
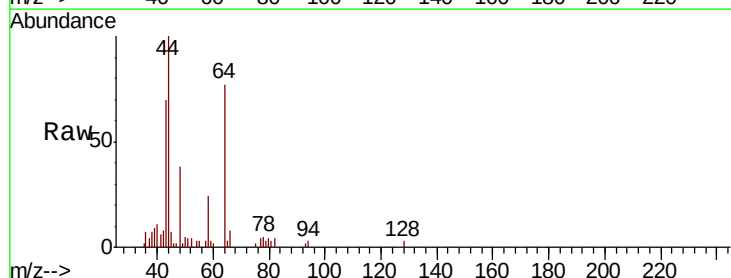
Acq: 08 Aug 2018 16:51

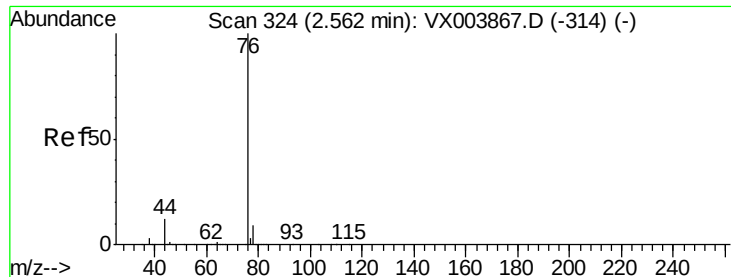
Tgt Ion: 43 Resp: 2972

Ion Ratio Lower Upper

43 100

58 35.7 26.4 39.6





#17

Carbon Disulfide

Concen: 0.79 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampled :

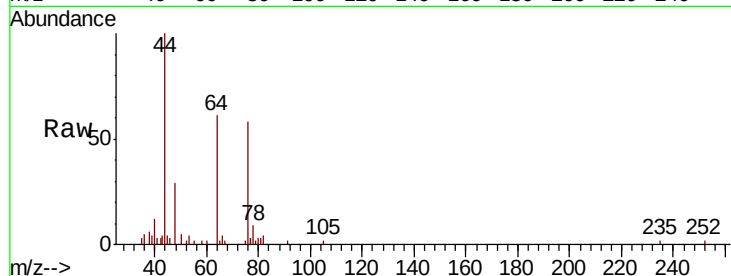
MW-107S

Tot Ion: 76 Resp: 3414

Ion Ratio Lower Upper

76 100

78 8.4 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2000

1500

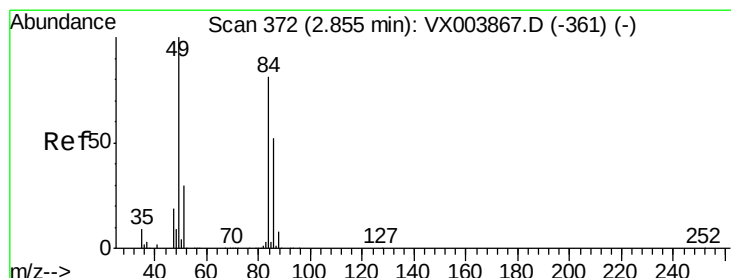
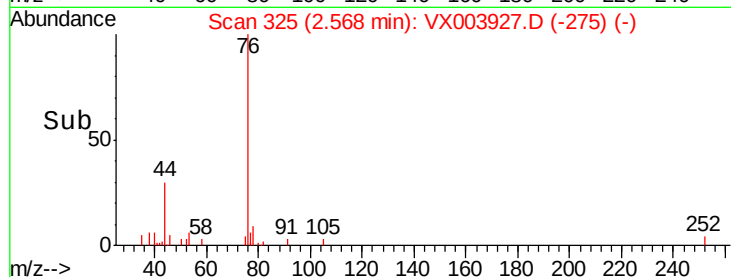
1000

500

0

Time--> 2.50 2.55 2.60

2.57



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Tgt Ion: 84 Resp: 529

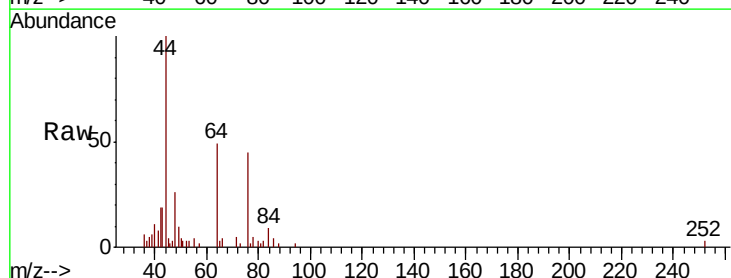
Ion Ratio Lower Upper

84 100

49 102.8 98.9 148.3

51 12.7 29.9 44.9#

86 44.4 51.0 76.6#



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

500

400

300

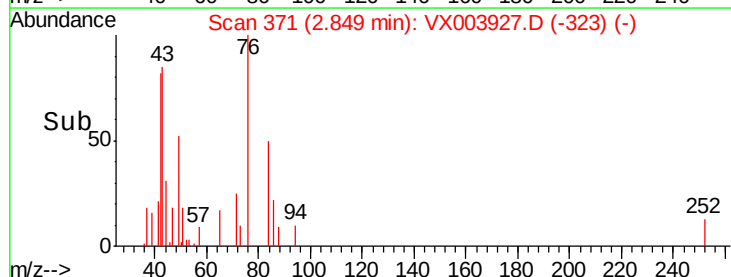
200

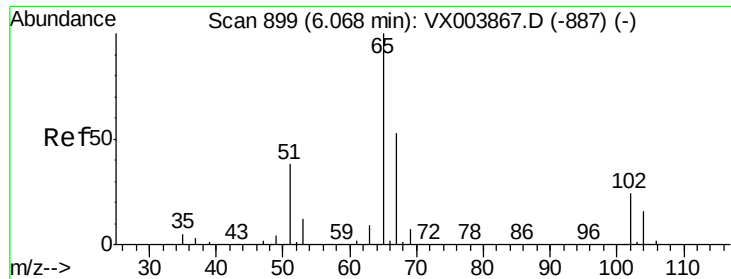
100

0

Time--> 2.80 2.85 2.90

2.85

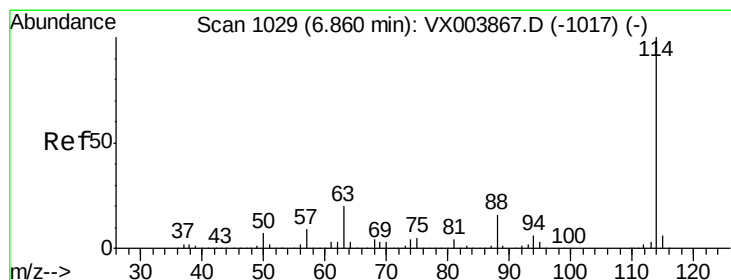
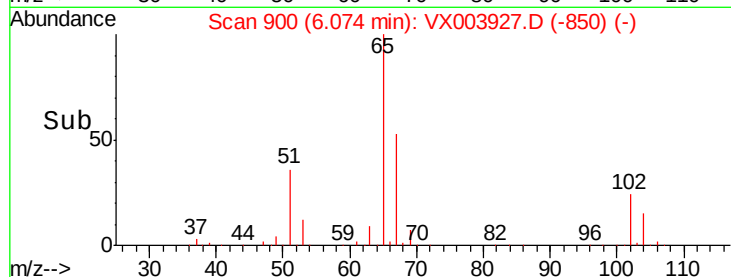
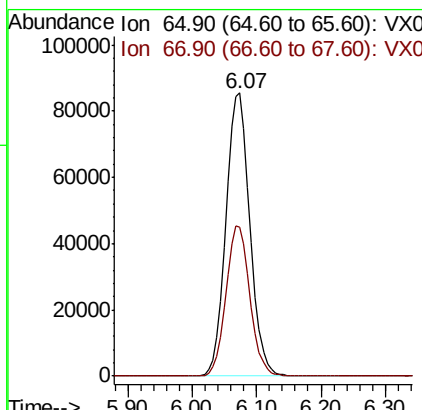
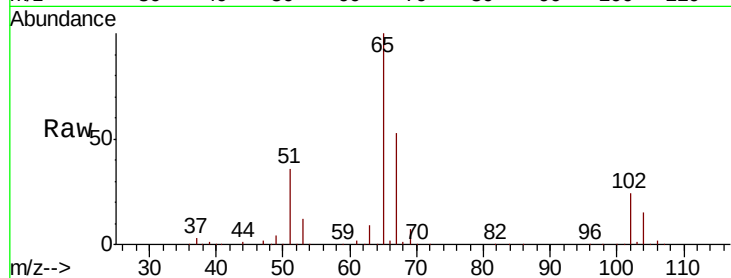




#33
 1,2-Dichloroethane-d4
 Concen: 52.58 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003927.D
 Acq: 08 Aug 2018 16:51

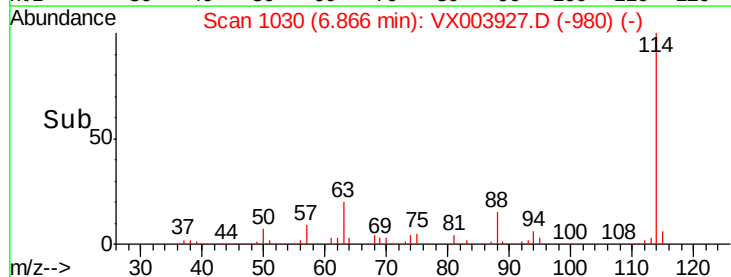
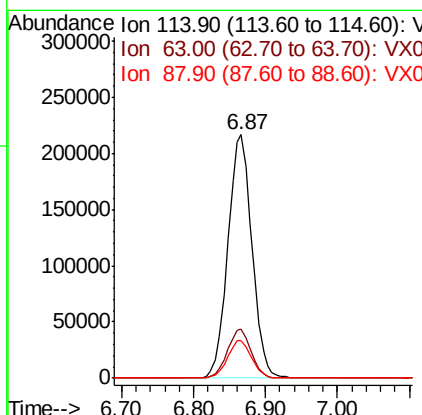
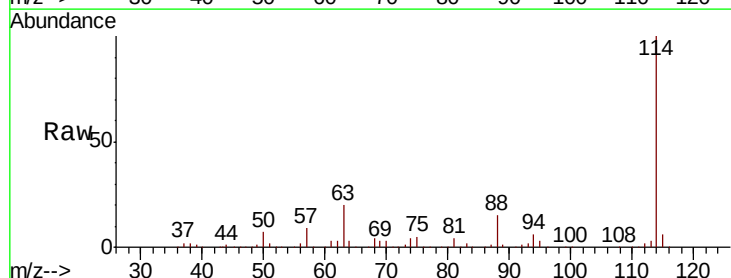
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-107S

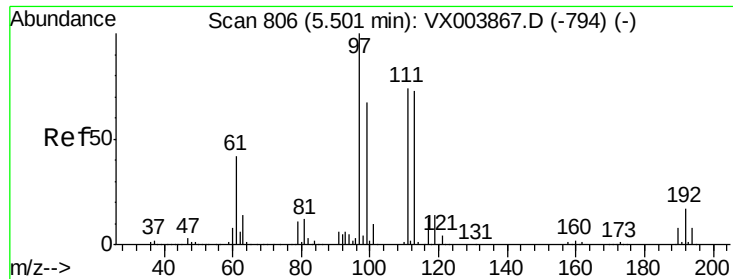
Tot Ion: 65 Resp: 223704
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003927.D
 Acq: 08 Aug 2018 16:51

Tgt Ion: 114 Resp: 502896
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.2 0.0 32.0





#35

Dibromofluoromethane

Concen: 49.99 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

MW-107S

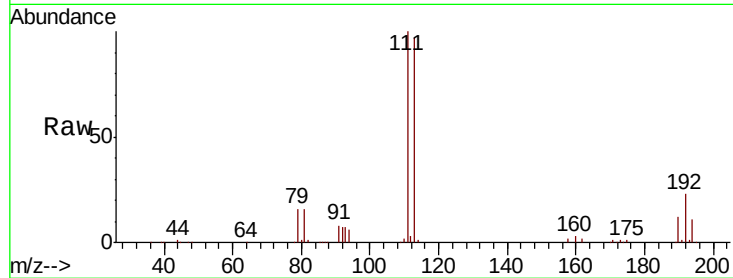
Tot Ion:113 Resp: 190438

Ion Ratio Lower Upper

113 100

111 103.3 82.0 123.0

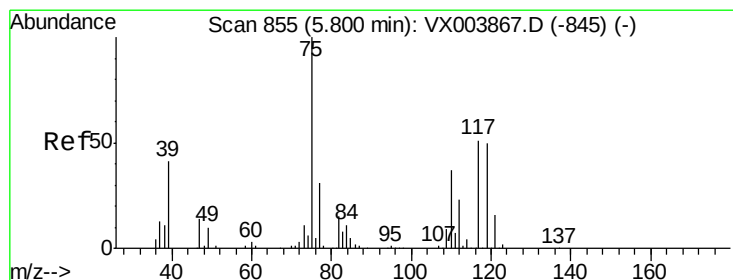
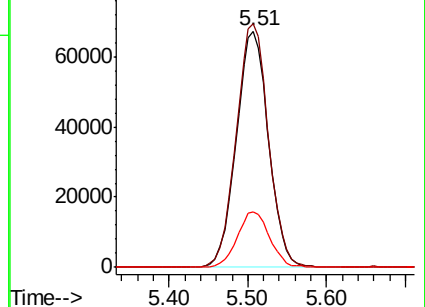
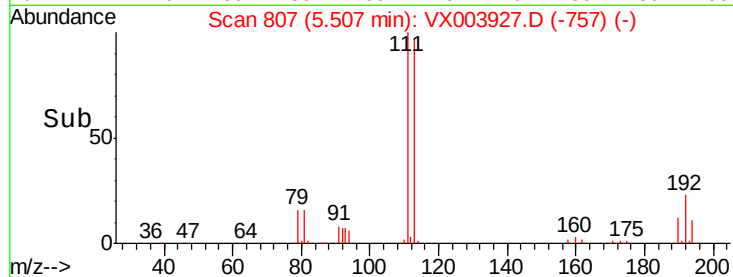
192 23.5 19.0 28.4



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: 3.84 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

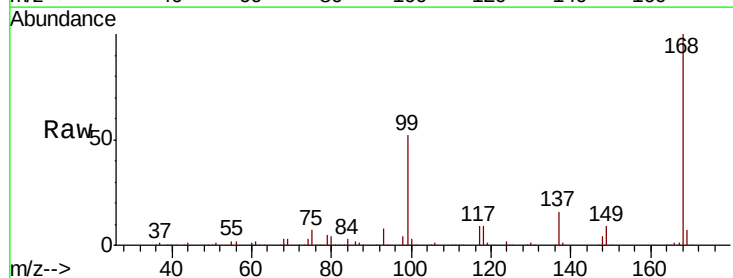
Tgt Ion: 75 Resp: 21607

Ion Ratio Lower Upper

75 100

110 8.0 18.2 54.6#

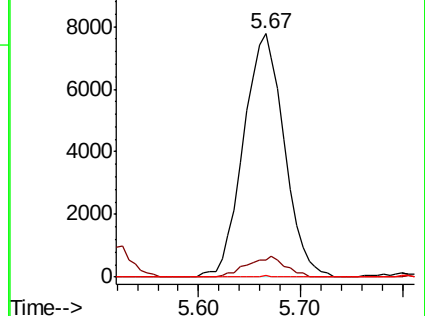
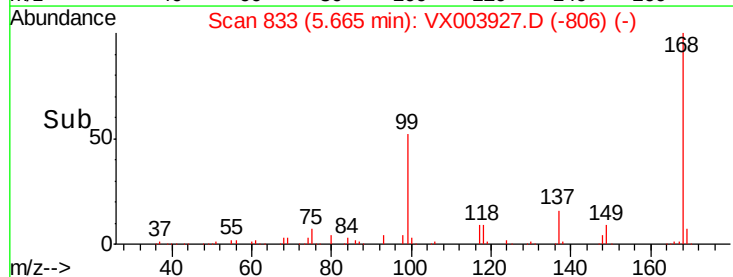
77 0.1 25.0 37.4#

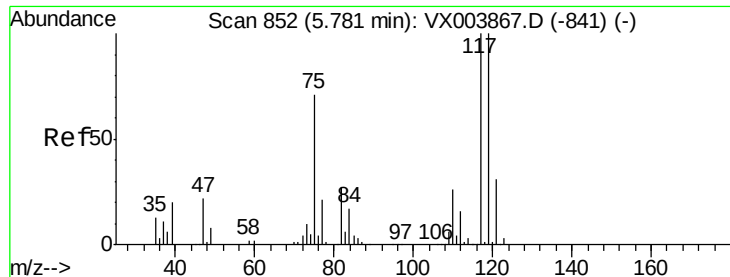


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.21 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

MW-107S

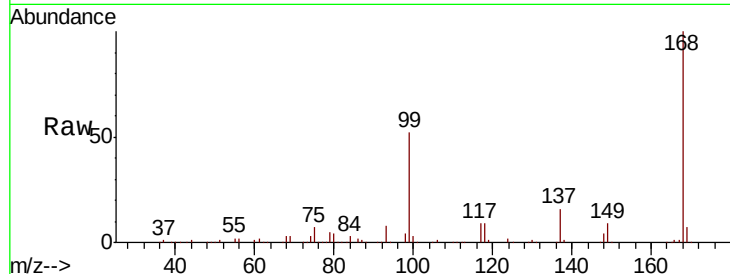
Tot Ion:117 Resp: 27932

Ion Ratio Lower Upper

117 100

119 6.4 79.5 119.3#

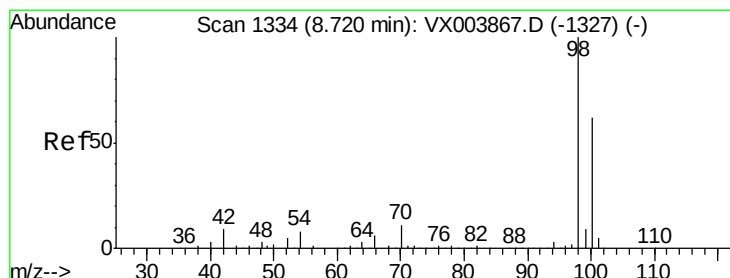
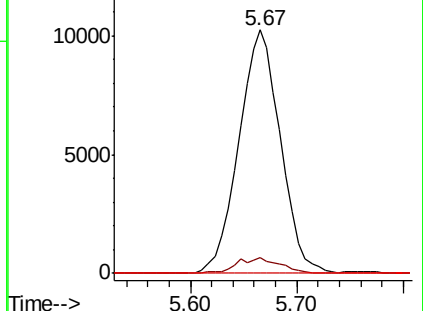
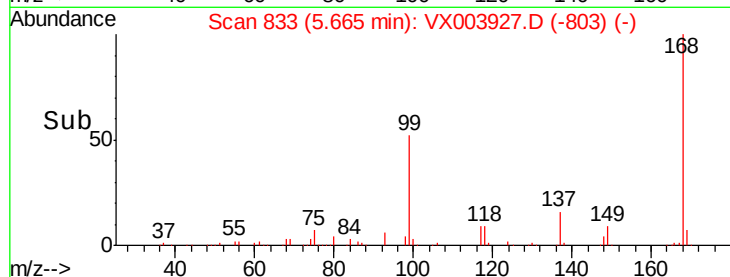
121 0.0 25.0 37.4#



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: 48.13 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003927.D

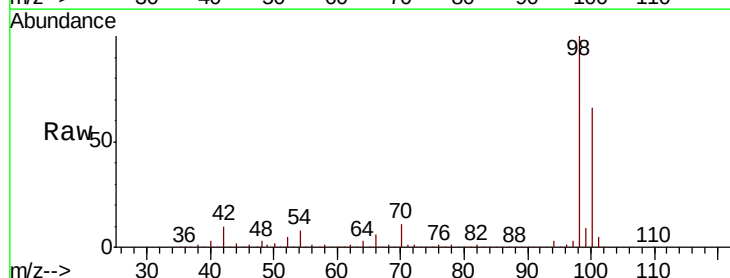
Acq: 08 Aug 2018 16:51

Tgt Ion: 98 Resp: 713103

Ion Ratio Lower Upper

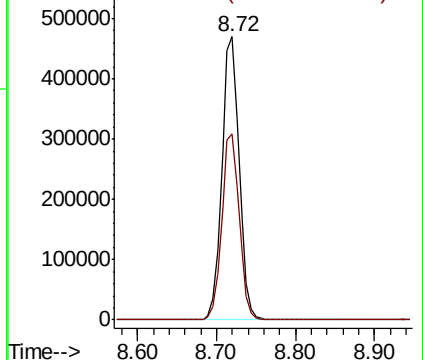
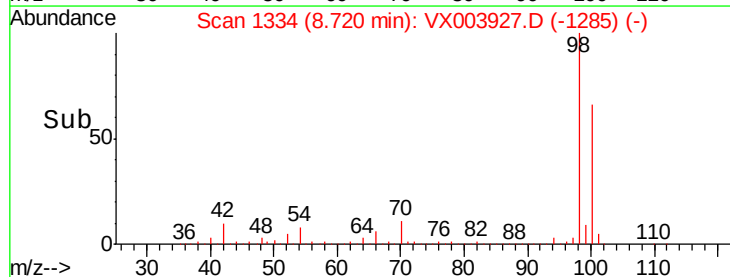
98 100

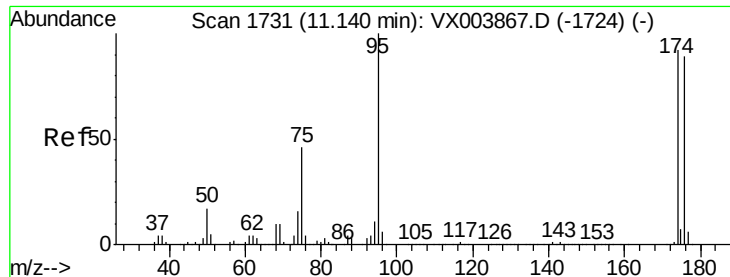
100 66.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 52.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampled :

MW-107S

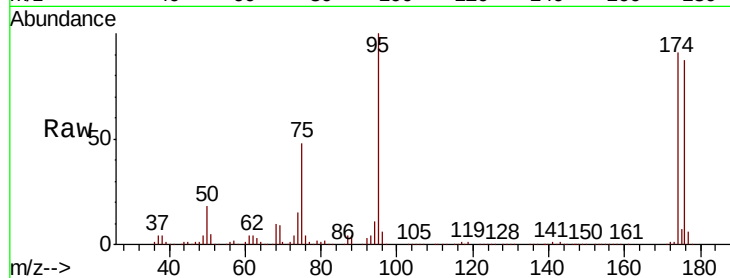
Tot Ion: 95 Resp: 251010

Ion Ratio Lower Upper

95 100

174 90.3 0.0 182.8

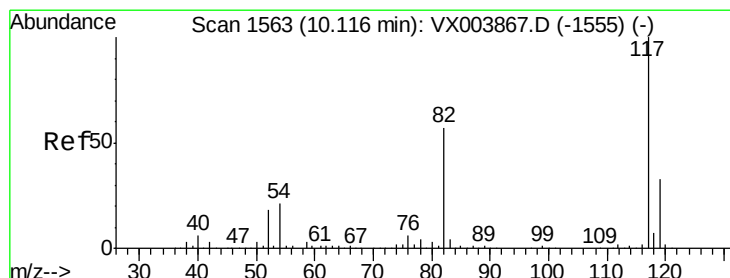
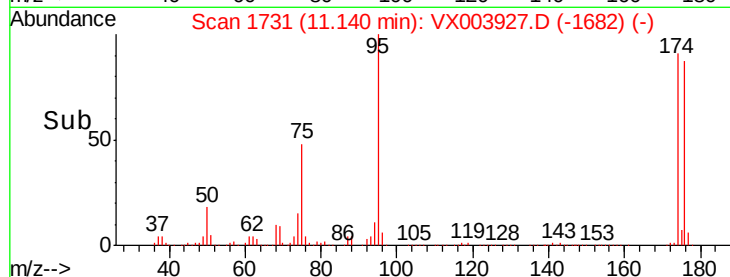
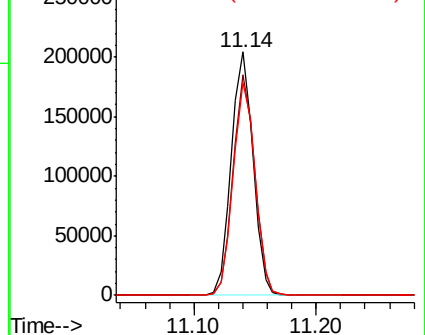
176 87.9 0.0 179.0



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# 1563

Delta R.T. 0.00 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

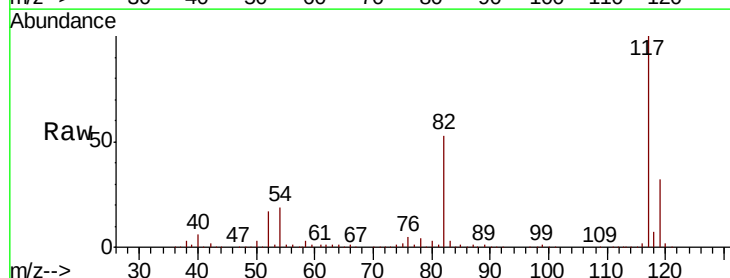
Tgt Ion: 117 Resp: 476849

Ion Ratio Lower Upper

117 100

82 53.2 45.4 68.0

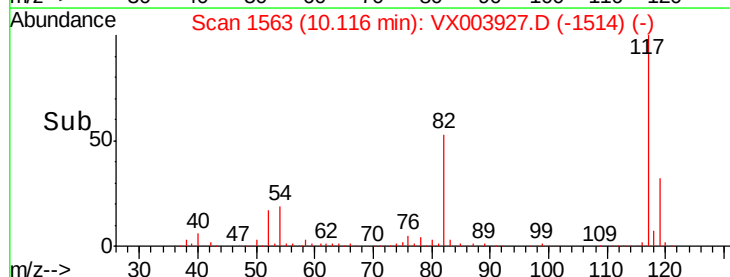
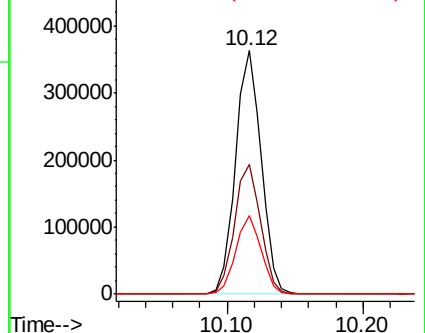
119 32.3 26.6 40.0

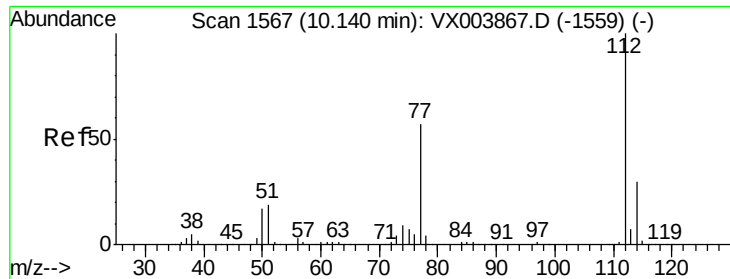


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 1.24 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampled :

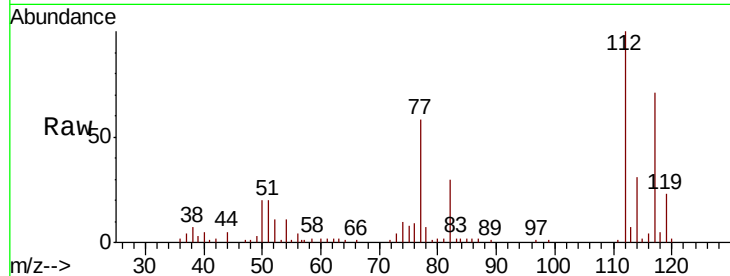
MW-107S

Tot Ion:112 Resp: 15406

Ion Ratio Lower Upper

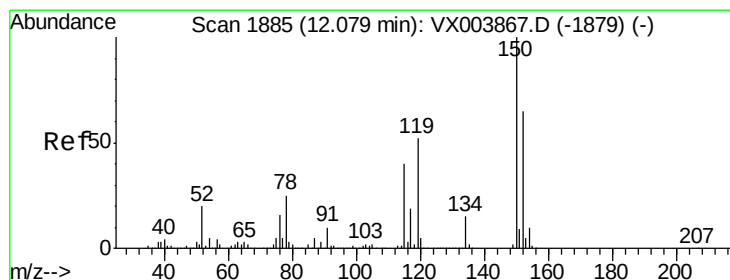
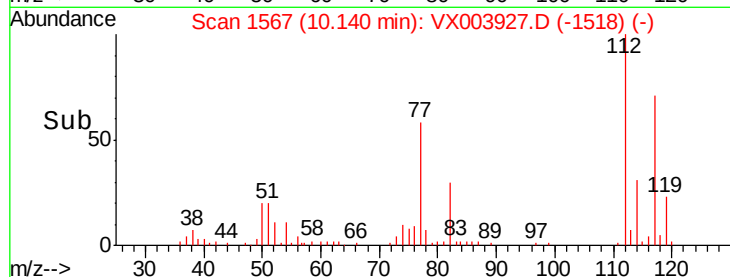
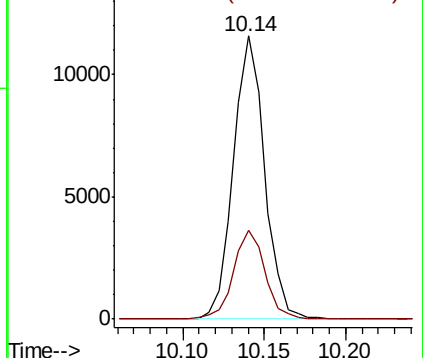
112 100

114 31.3 23.6 35.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

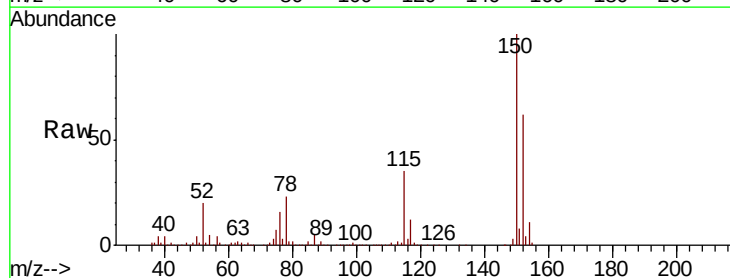
Tgt Ion:152 Resp: 240696

Ion Ratio Lower Upper

152 100

115 54.3 39.1 117.3

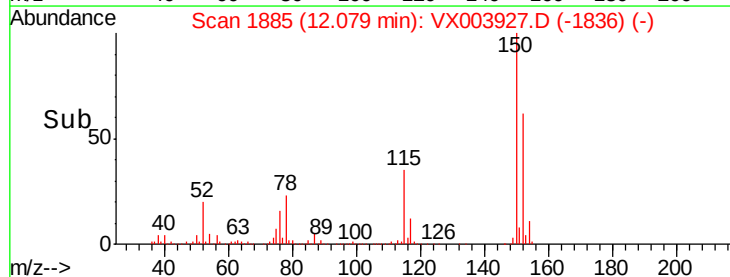
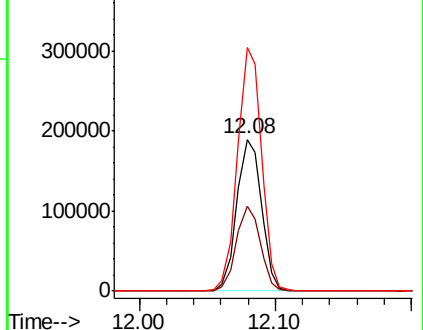
150 156.3 0.0 349.2

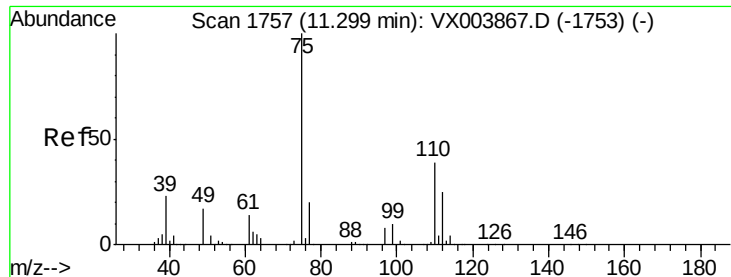


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampled :

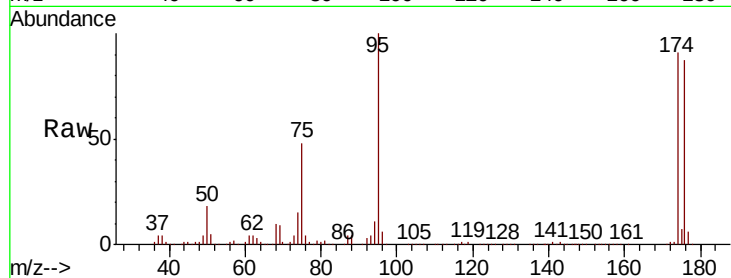
MW-107S

Tot Ion: 75 Resp: 119172

Ion Ratio Lower Upper

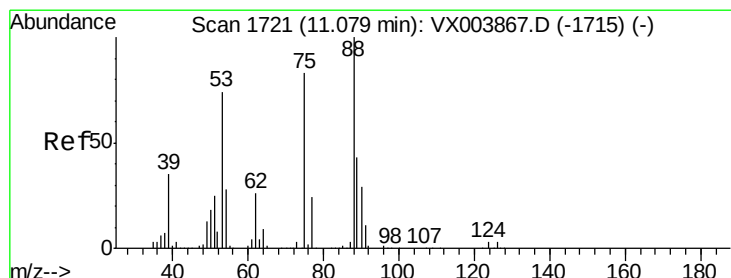
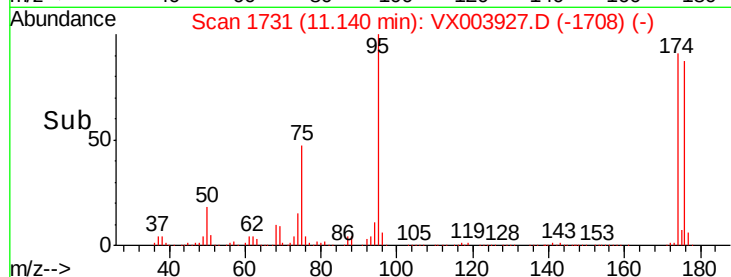
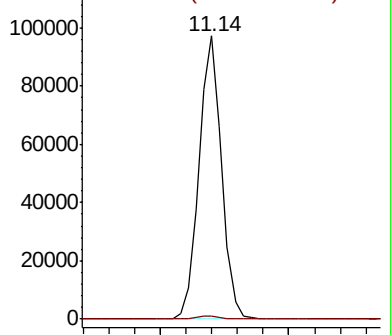
75 100

77 1.3 20.8 62.5#



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: 60.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

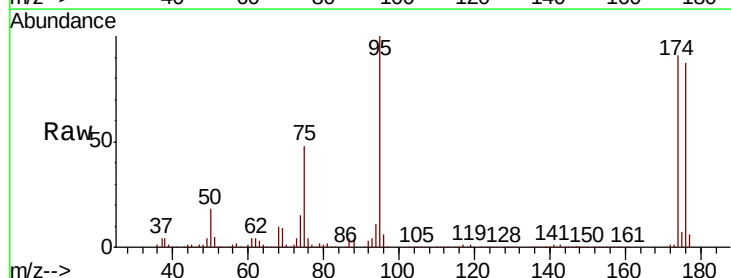
Tgt Ion: 75 Resp: 119172

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

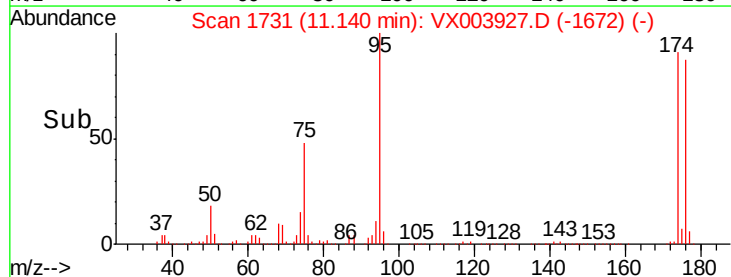
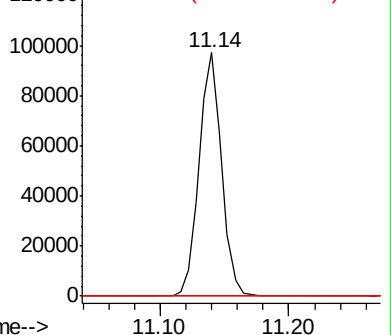
89 0.0 37.8 56.8#

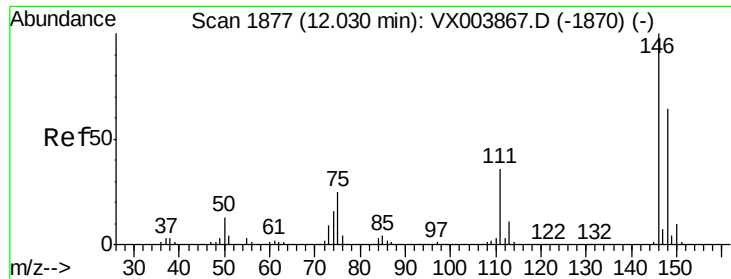


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#87

1,3-Dichlorobenzene

Concen: 0.24 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

MW-107S

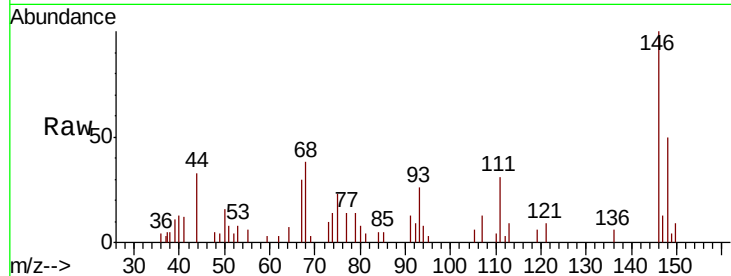
Tot Ion:146 Resp: 2140

Ion Ratio Lower Upper

146 100

111 38.9 18.8 56.4

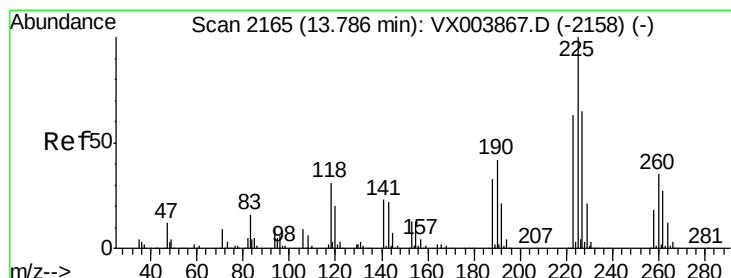
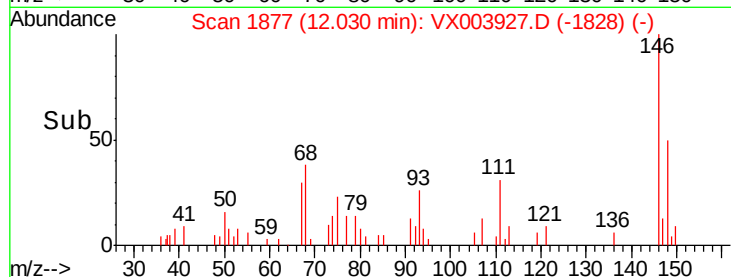
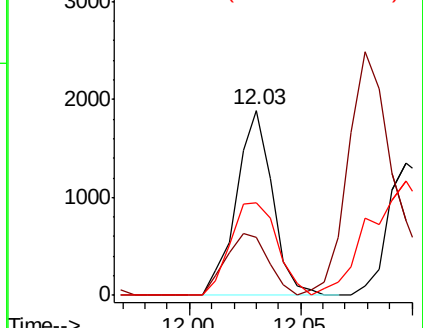
148 64.8 31.9 95.5



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



#94

Hexachlorobutadiene

Concen: 0.51 ug/l

RT: 13.78 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VX003927.D

Acq: 08 Aug 2018 16:51

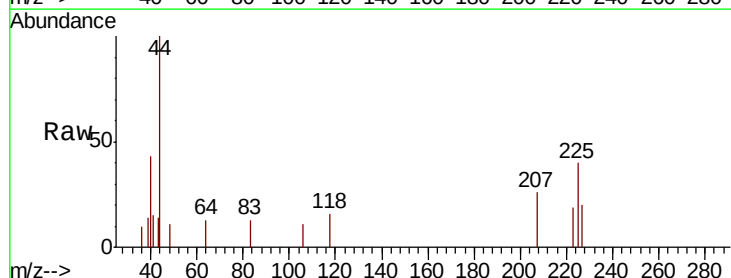
Tgt Ion:225 Resp: 215

Ion Ratio Lower Upper

225 100

223 64.7 31.4 94.0

227 45.6 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

