

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081018\
 Data File : VX003978.D
 Acq On : 10 Aug 2018 15:50
 Operator : JC/MD
 Sample : J4379-23
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-101I

Quant Time: Aug 11 01:45:10 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	278859	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	437702	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	415618	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	217909	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	198467	53.69	ug/l	0.00
Spiked Amount			Recovery	=	107.38%	
35) Dibromofluoromethane	5.51	113	171282	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
50) Toluene-d8	8.72	98	613317	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
62) 4-Bromofluorobenzene	11.14	95	210762	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	

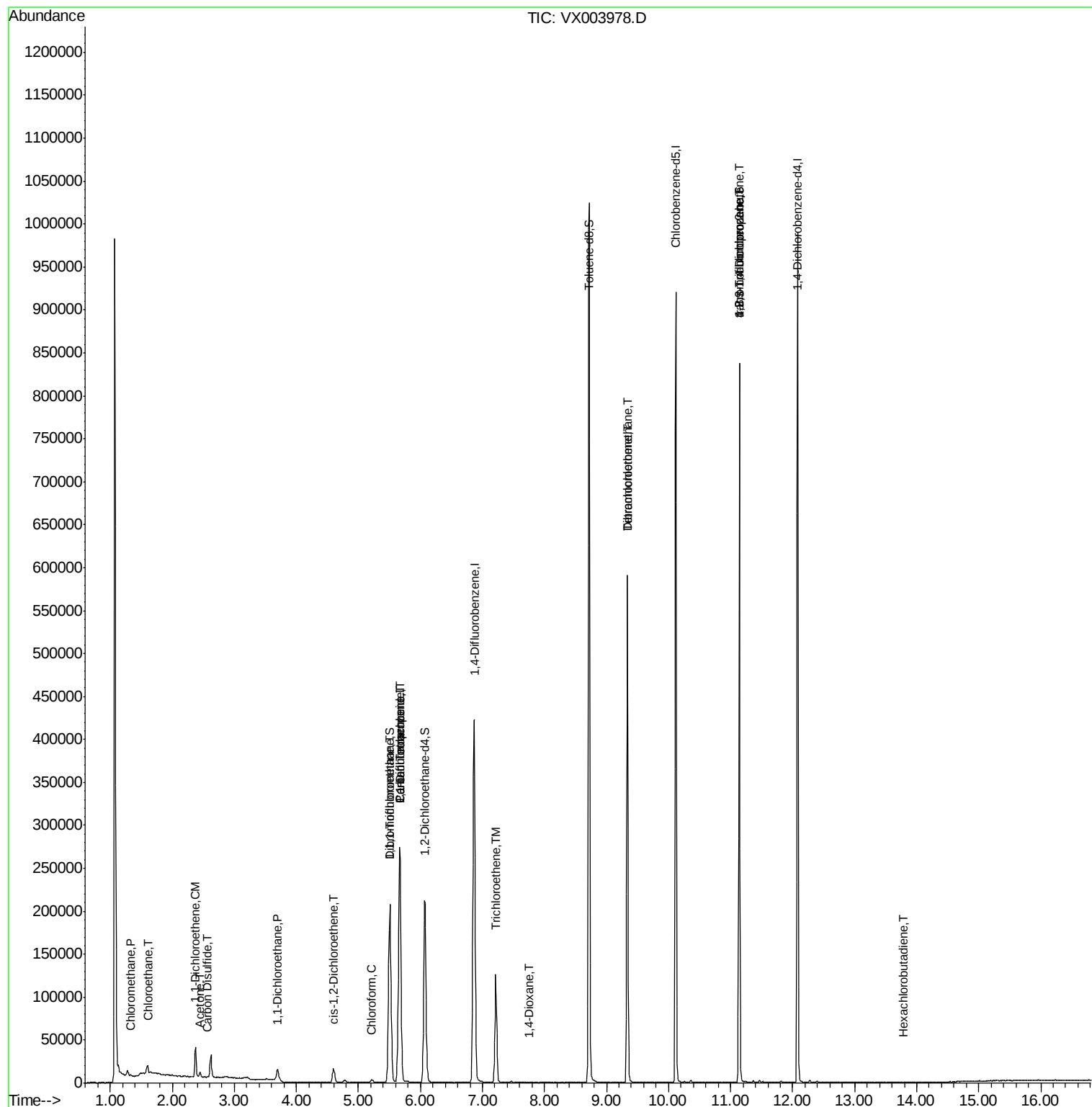
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	956	0.25	ug/l	# 77
5) Bromomethane	1.64	94	771	Below	Cal	# 99
6) Chloroethane	1.60	64	27482	11.20	ug/l	# 49
12) 1,1-Dichloroethene	2.37	96	11838	3.96	ug/l	# 96
13) Acrolein	2.29	56	159	Below	Cal	# 52
16) Acetone	2.45	43	6434	2.93	ug/l	# 96
17) Carbon Disulfide	2.57	76	913	0.55	ug/l	# 100
20) Methylene Chloride	2.86	84	697	Below	Cal	# 78
24) 1,1-Dichloroethane	3.70	63	13299	2.11	ug/l	# 99
27) cis-1,2-Dichloroethene	4.60	96	10260	2.78	ug/l	# 96
30) Chloroform	5.21	83	3342	0.56	ug/l	# 93
32) 1,1,1-Trichloroethane	5.50	97	4240	0.85	ug/l	# 50
36) 1,1-Dichloropropene	5.67	75	18650	3.80	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	25059	5.37	ug/l	# 15
44) Trichloroethene	7.21	130	49983	12.42	ug/l	# 92
49) 1,4-Dioxane	7.76	88	411	4.23	ug/l	# 80
60) Dibromochloromethane	9.34	129	105241	29.70	ug/l	# 11
64) Tetrachloroethene	9.34	164	118149	28.90	ug/l	# 94
76) 1,2,3-Trichloropropane	11.14	75	100399	20.86	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	100399	56.45	ug/l	# 9
88) 1,4-Dichlorobenzene	12.10	146	409	Below	Cal	# 1
94) Hexachlorobutadiene	13.79	225	160	0.49	ug/l	# 84

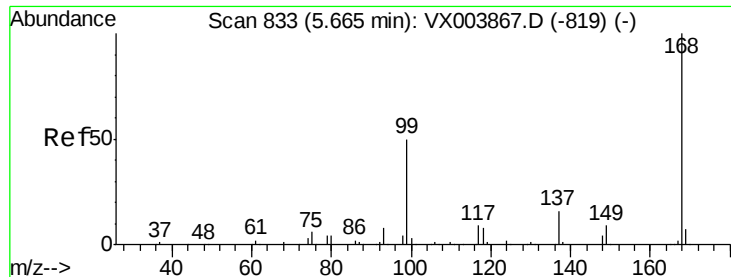
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 11 01:45:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 07:45:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

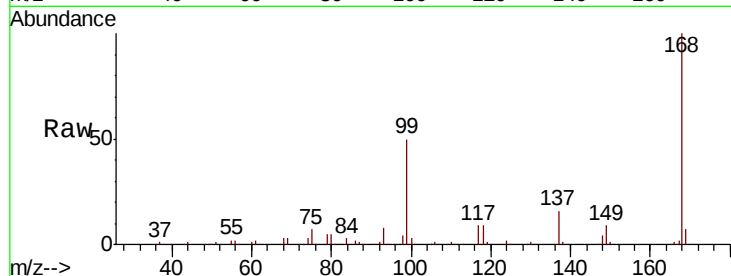
MW-101I

Tot Ion:168 Resp: 278859

Ion Ratio Lower Upper

168 100

99 49.9 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

80000

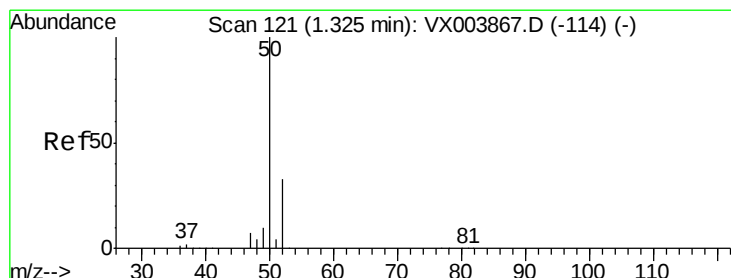
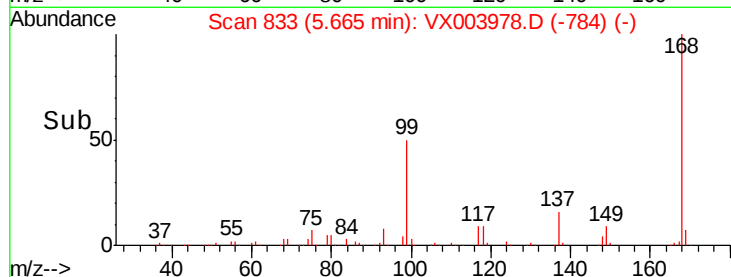
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003978.D

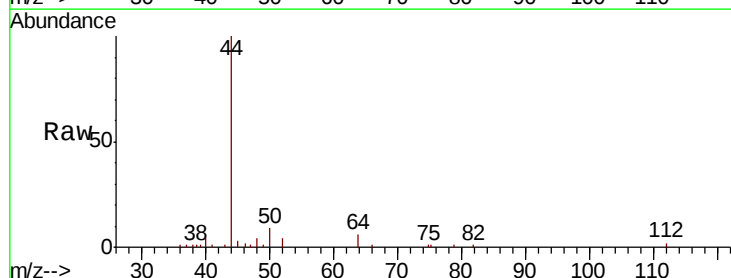
Acq: 10 Aug 2018 15:50

Tgt Ion: 50 Resp: 956

Ion Ratio Lower Upper

50 100

52 46.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

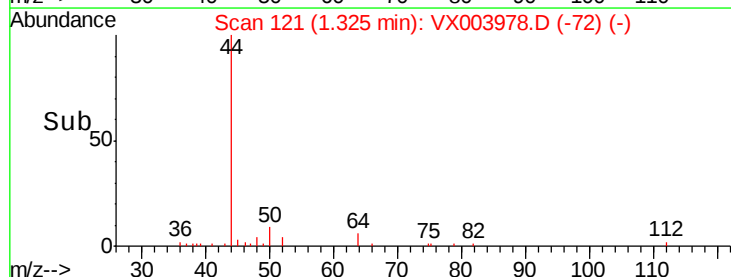
600

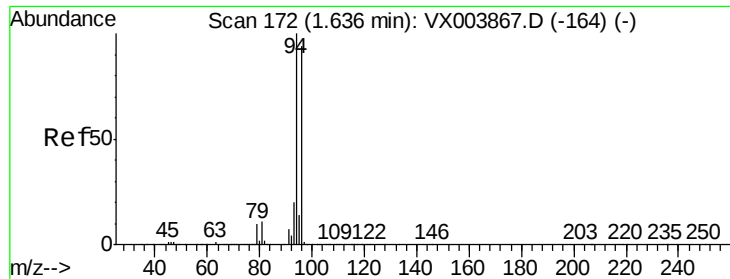
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

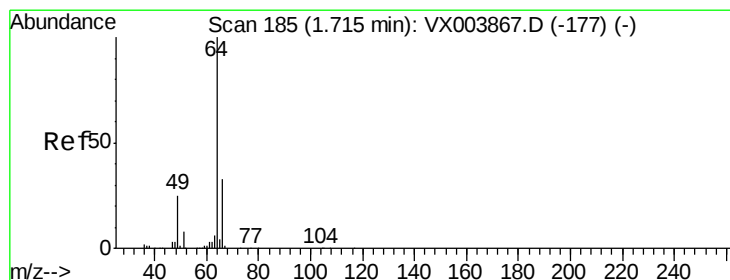
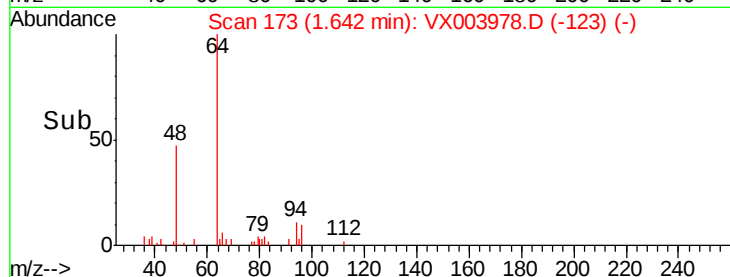
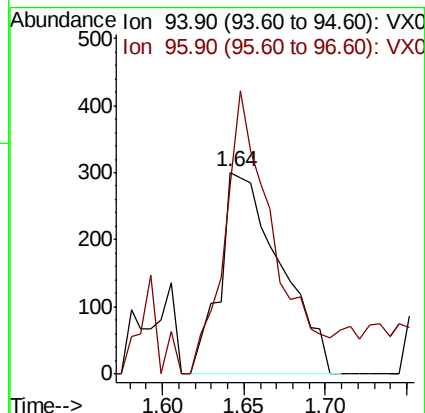
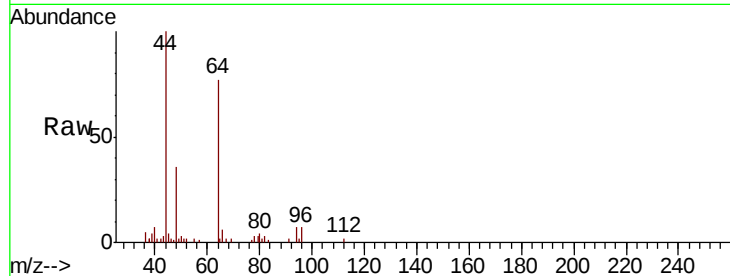
MW-101I

Tot Ion: 94 Resp: 771

Ion Ratio Lower Upper

94 100

96 93.3 75.2 112.8



#6

Chloroethane

Concen: 11.20 ug/l

RT: 1.60 min Scan# 166

Delta R.T. -0.12 min

Lab File: VX003978.D

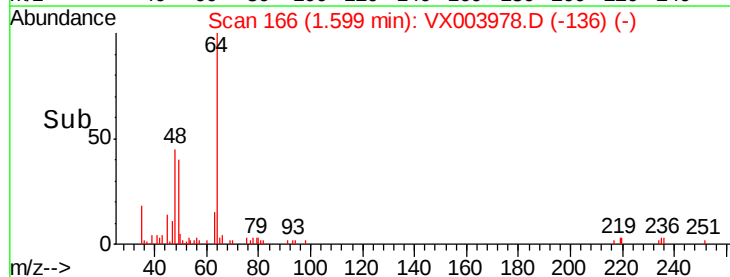
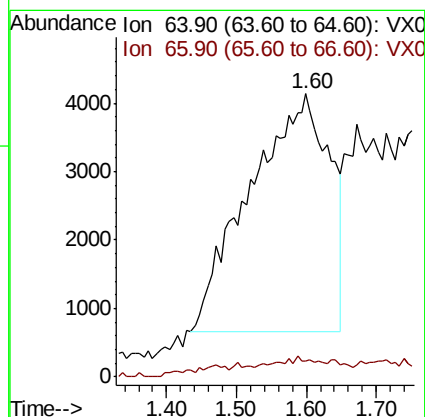
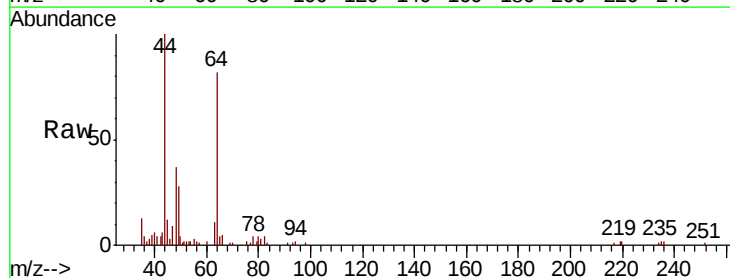
Acq: 10 Aug 2018 15:50

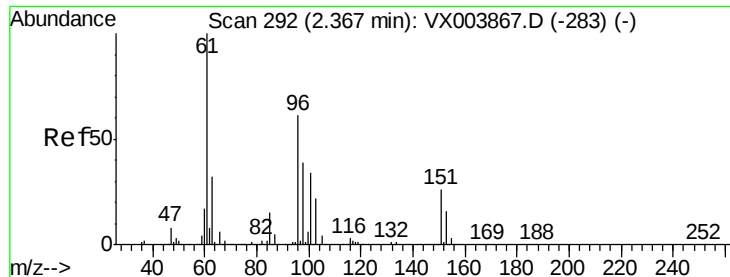
Tgt Ion: 64 Resp: 27482

Ion Ratio Lower Upper

64 100

66 4.1 26.5 39.7#





#12

1,1-Dichloroethene

Concen: 3.96 ug/l

RT: 2.37 min Scan# 293

Delta R.T. 0.01 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

MW-101I

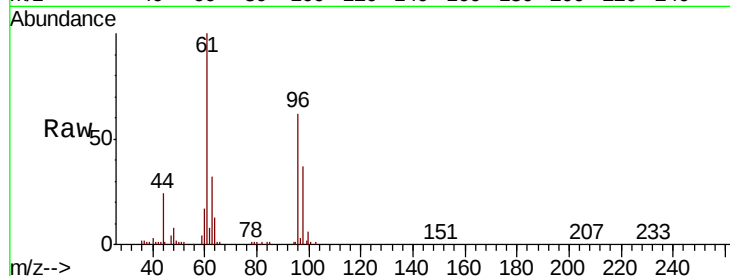
Tot Ion: 96 Resp: 11838

Ion Ratio Lower Upper

96 100

61 160.4 131.3 196.9

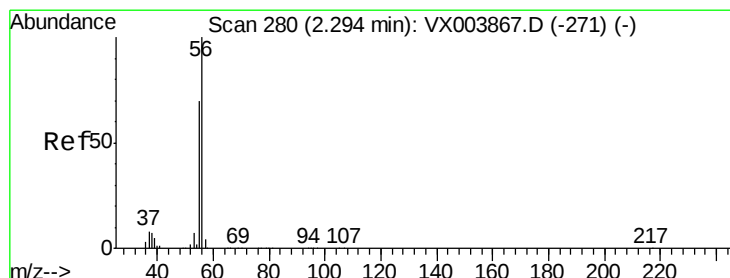
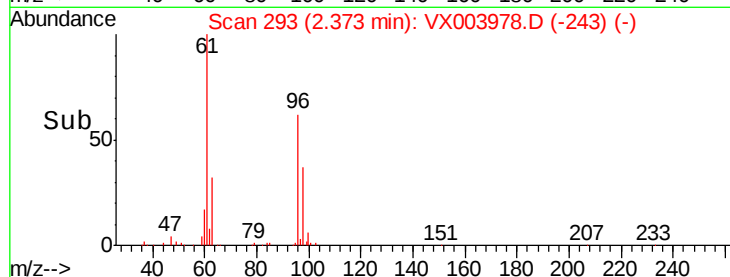
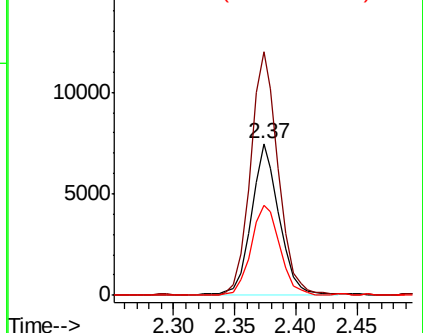
98 59.2 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003978.D

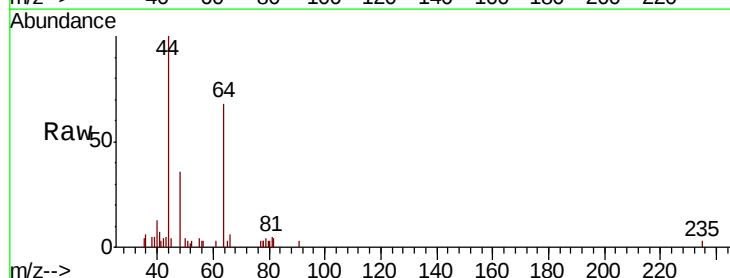
Acq: 10 Aug 2018 15:50

Tgt Ion: 56 Resp: 159

Ion Ratio Lower Upper

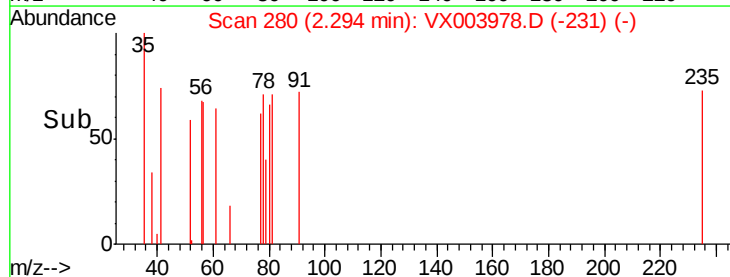
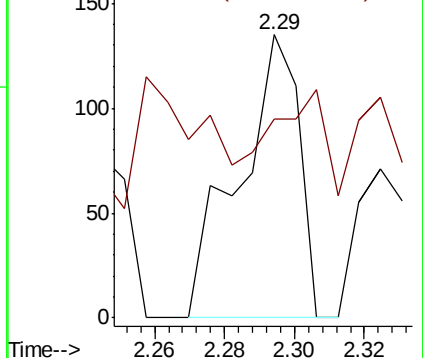
56 100

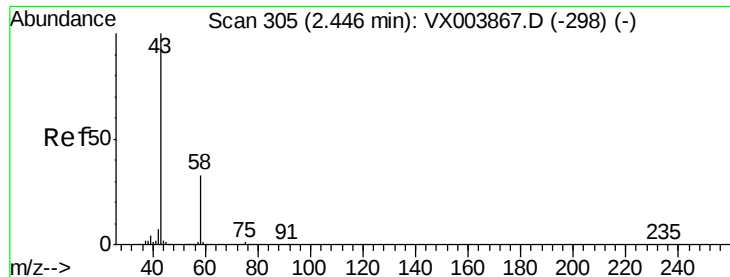
55 30.8 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.93 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

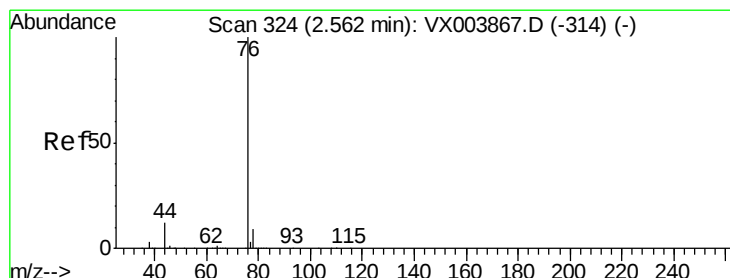
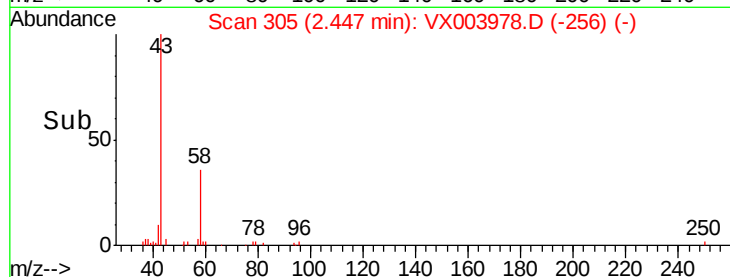
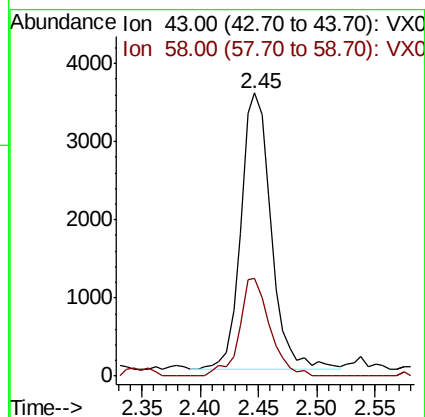
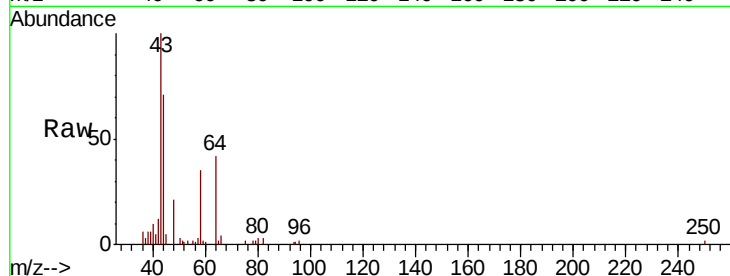
MW-101I

Tot Ion: 43 Resp: 6434

Ion Ratio Lower Upper

43 100

58 35.4 26.4 39.6



#17

Carbon Disulfide

Concen: 0.55 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003978.D

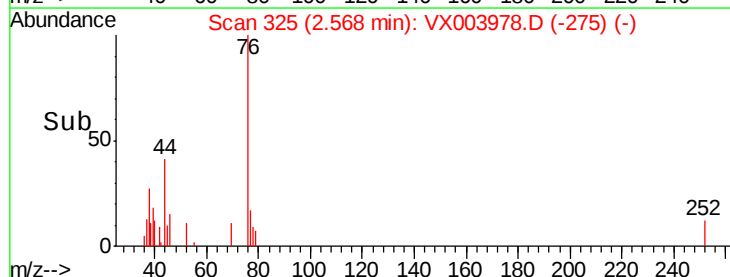
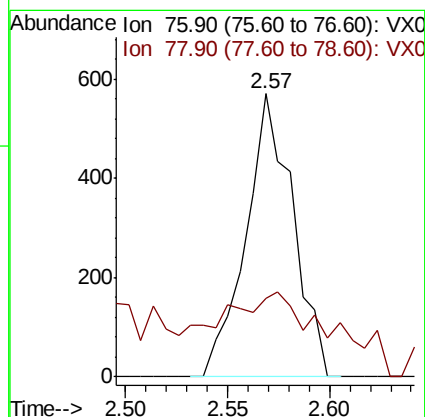
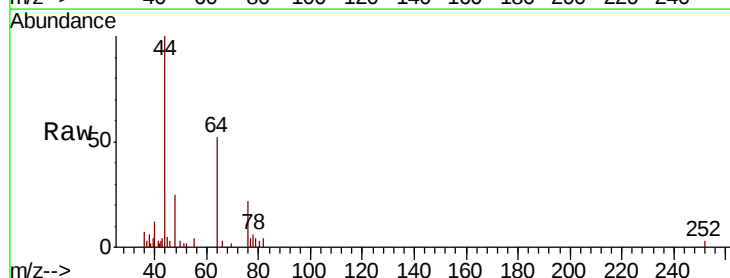
Acq: 10 Aug 2018 15:50

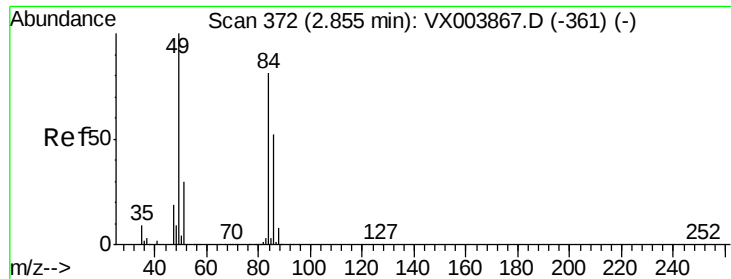
Tgt Ion: 76 Resp: 913

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3

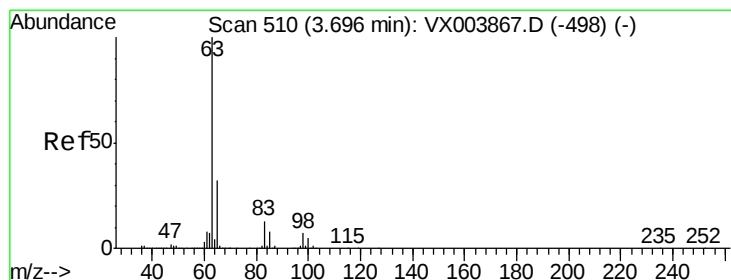
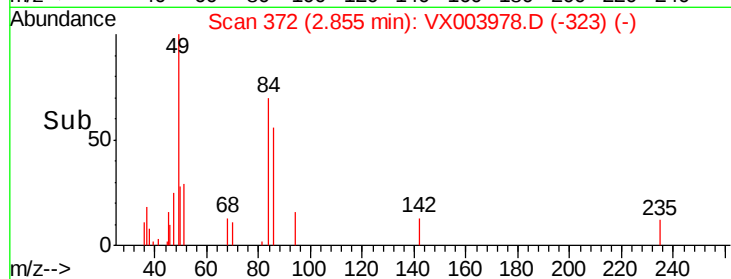
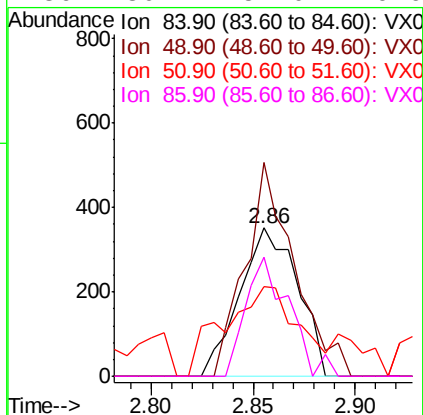
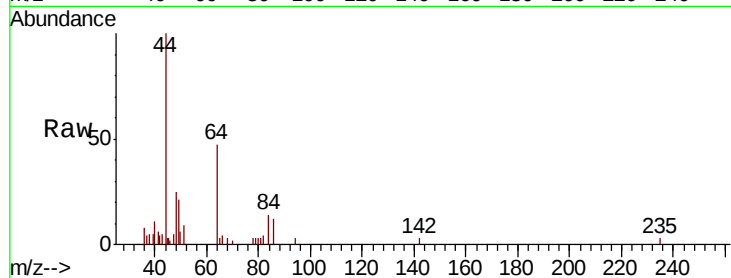




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003978.D
Acq: 10 Aug 2018 15:50

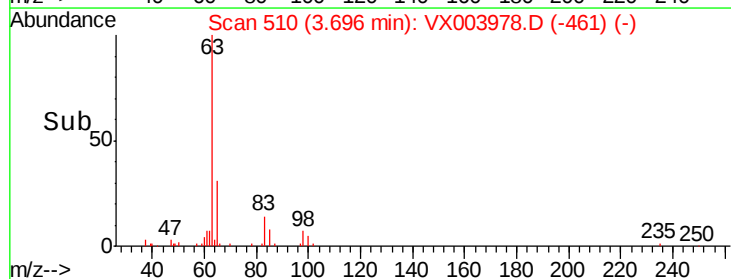
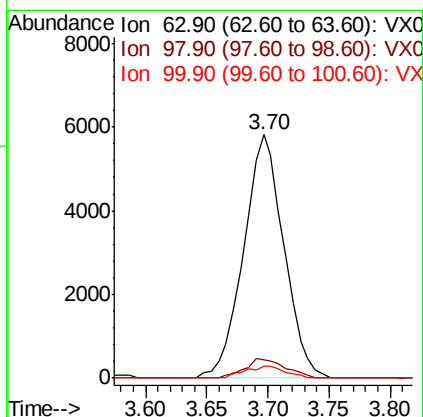
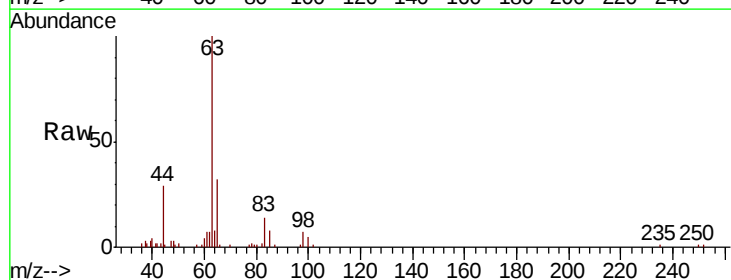
Instrument :
MSVOA_X
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MW-101I

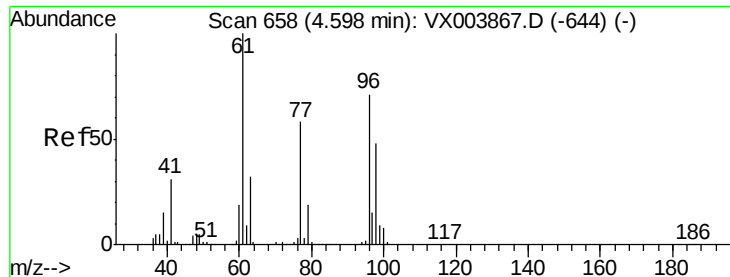
Tot Ion: 84 Resp: 697
Ion Ratio Lower Upper
84 100
49 143.8 98.9 148.3
51 60.8 29.9 44.9#
86 80.4 51.0 76.6#



#24
1,1-Dichloroethane
Concen: 2.11 ug/l
RT: 3.70 min Scan# 510
Delta R.T. 0.00 min
Lab File: VX003978.D
Acq: 10 Aug 2018 15:50

Tgt Ion: 63 Resp: 13299
Ion Ratio Lower Upper
63 100
98 7.4 3.5 10.5
100 5.0 2.3 6.8





#27

cis-1,2-Dichloroethene

Concen: 2.78 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

MW-101I

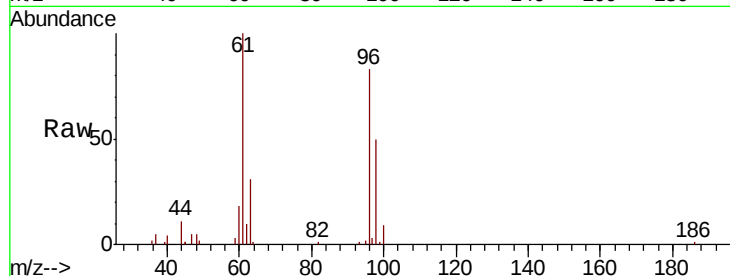
Tot Ion: 96 Resp: 10260

Ion Ratio Lower Upper

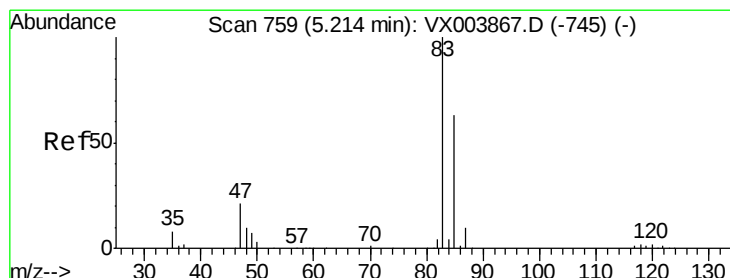
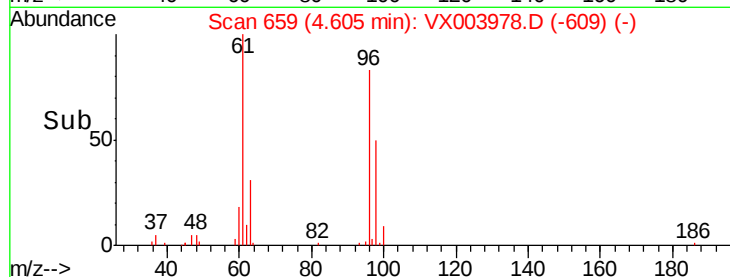
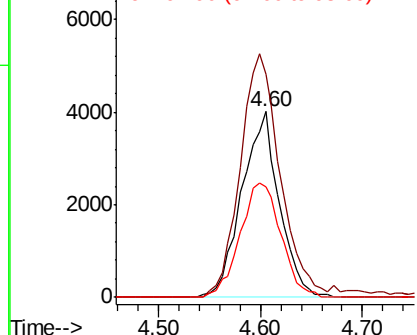
96 100

61 139.5 0.0 293.0

98 67.1 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#30

Chloroform

Concen: 0.56 ug/l

RT: 5.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VX003978.D

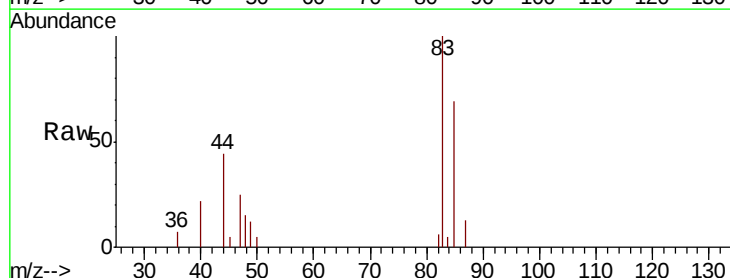
Acq: 10 Aug 2018 15:50

Tgt Ion: 83 Resp: 3342

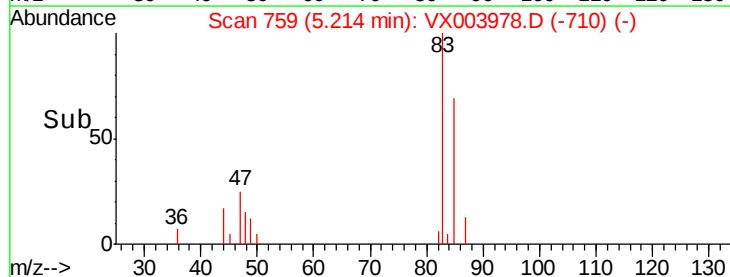
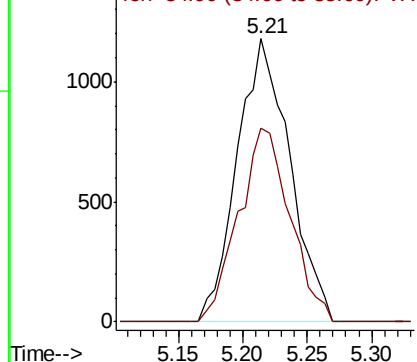
Ion Ratio Lower Upper

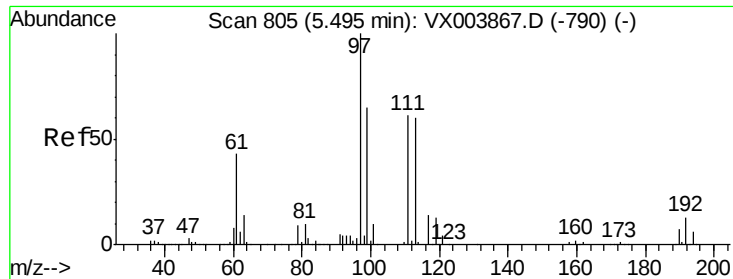
83 100

85 68.7 50.7 76.1



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

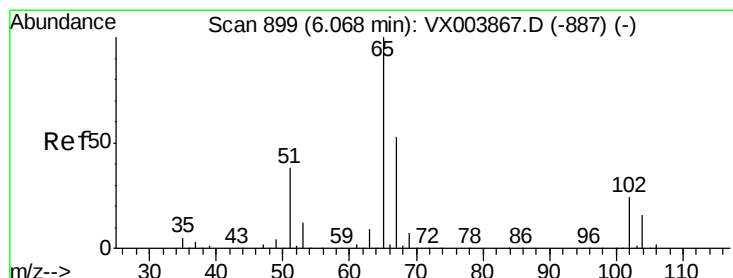
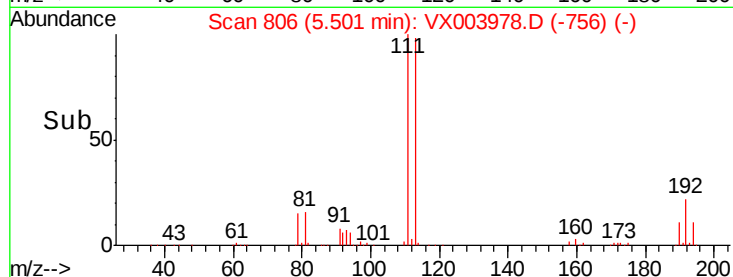
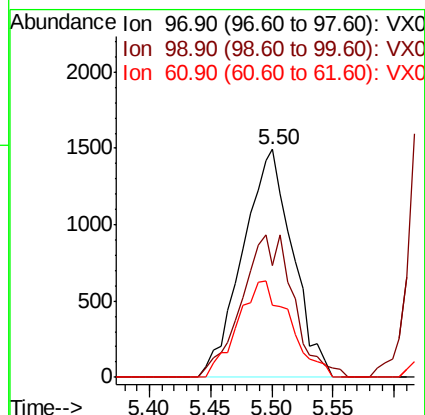
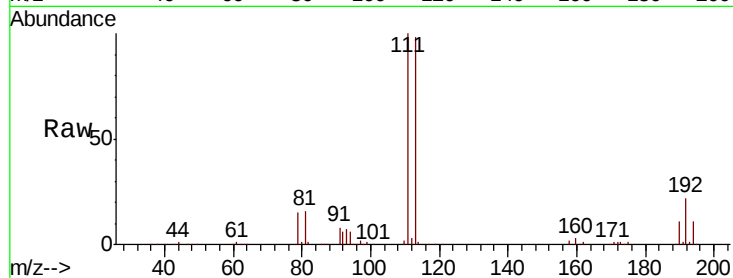




#32
 1,1,1-Trichloroethane
 Concen: 0.85 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX003978.D
 Acq: 10 Aug 2018 15:50

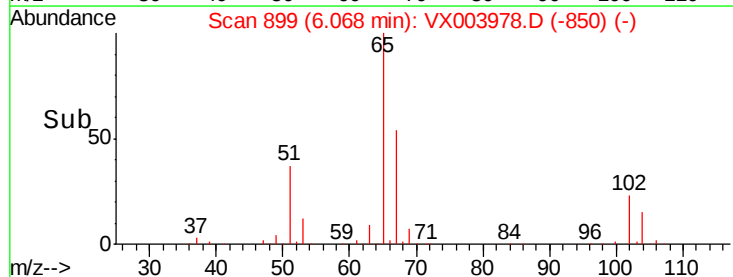
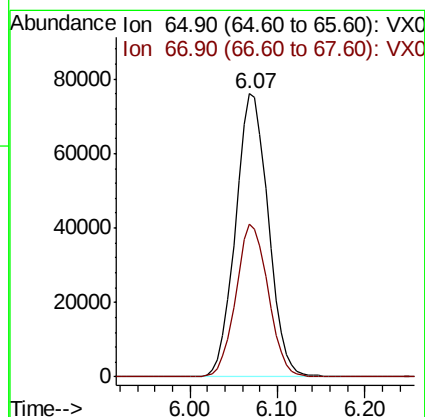
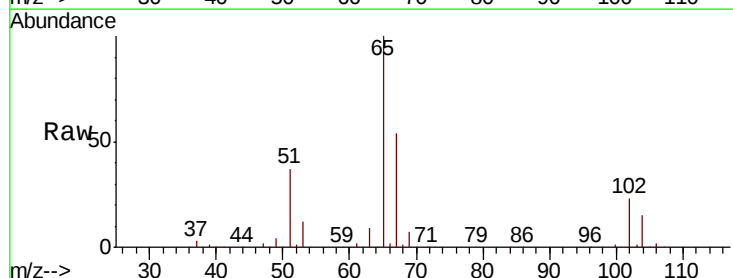
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-101I

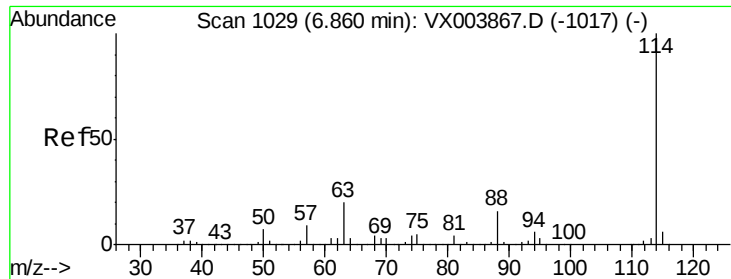
Tot Ion: 97 Resp: 4240
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.8 77.8#
 61 43.8 34.4 51.6



#33
 1,2-Dichloroethane-d4
 Concen: 53.69 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003978.D
 Acq: 10 Aug 2018 15:50

Tgt Ion: 65 Resp: 198467
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 105.8

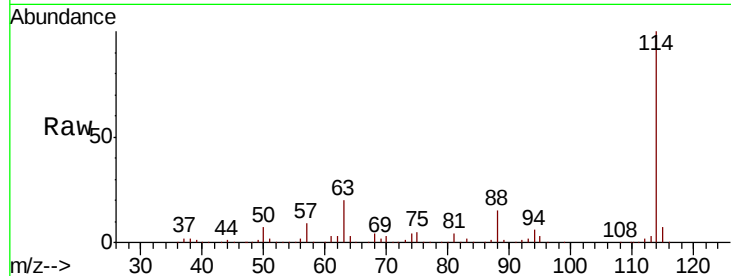




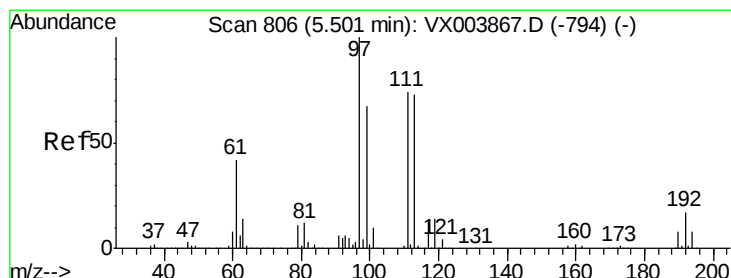
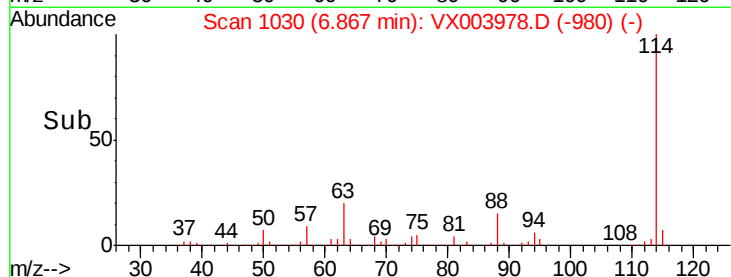
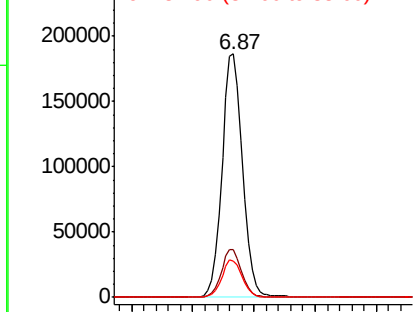
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003978.D
 Acq: 10 Aug 2018 15:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-101I

Tot Ion:114 Resp: 437702
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.1 0.0 32.0

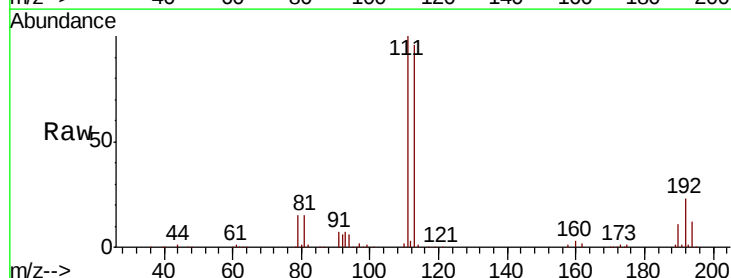


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

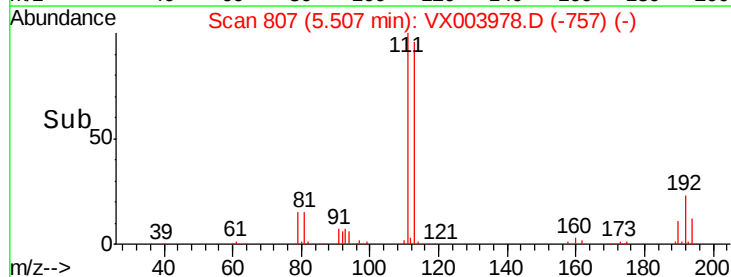
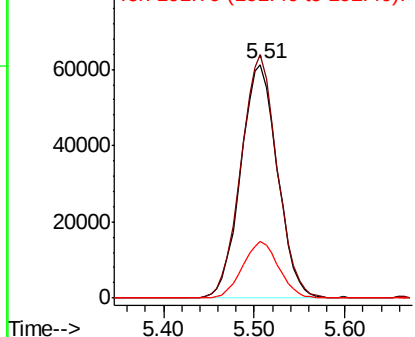


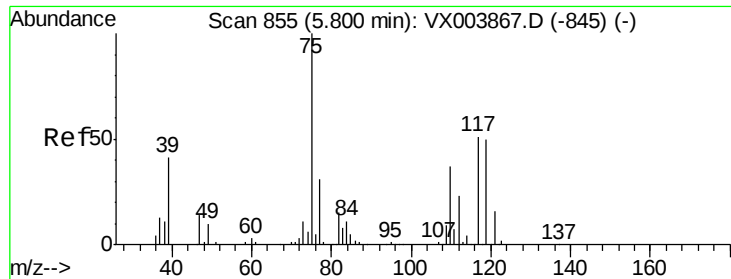
#35
 Dibromofluoromethane
 Concen: 51.65 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX003978.D
 Acq: 10 Aug 2018 15:50

Tgt Ion:113 Resp: 171282
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.0 123.0
 192 24.0 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

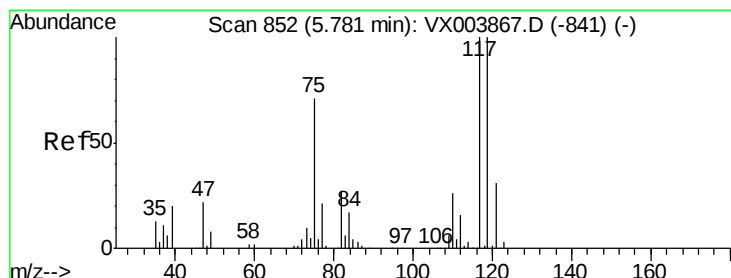
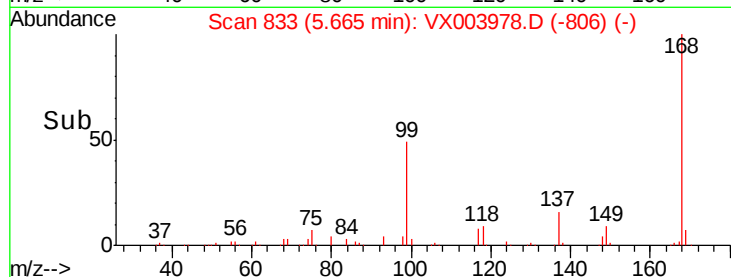
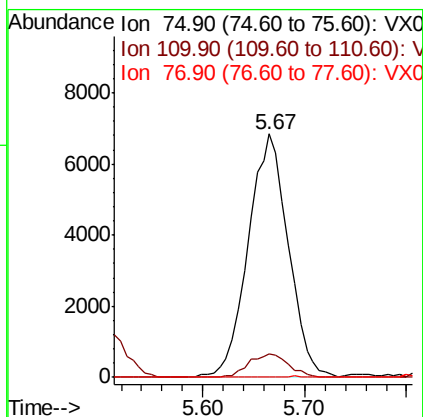
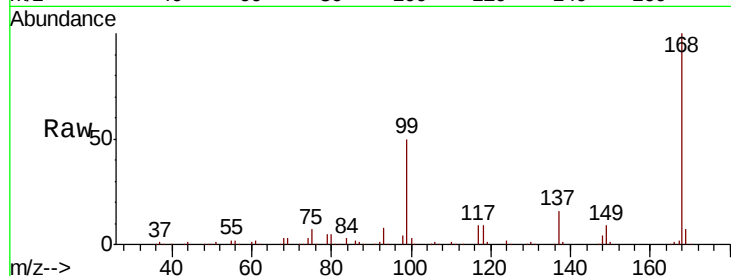




#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003978.D
 Acq: 10 Aug 2018 15:50

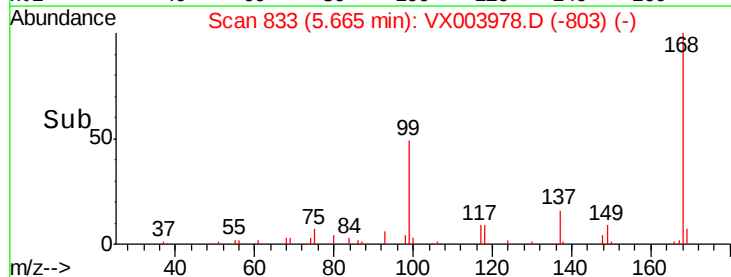
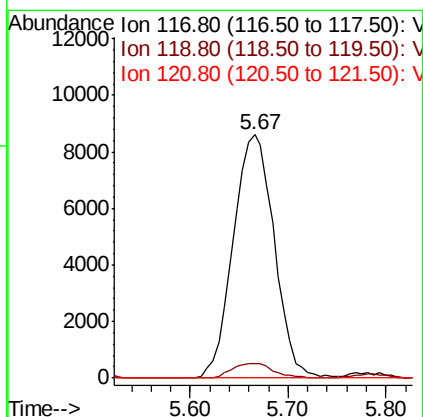
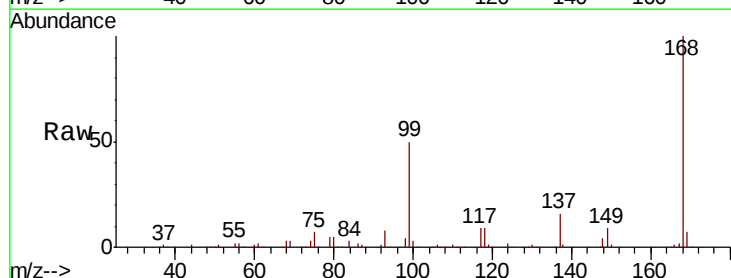
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-101I

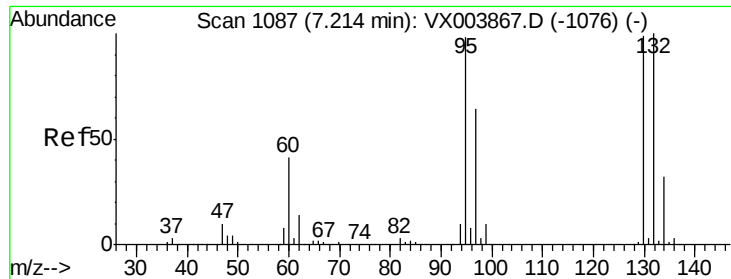
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.2	54.6#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.37 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003978.D
 Acq: 10 Aug 2018 15:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	79.5	119.3#
121	0.0	25.0	37.4#





#44

Trichloroethene

Concen: 12.42 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampled :

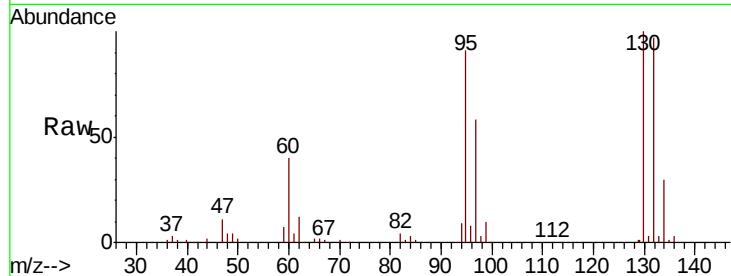
MW-101I

Tot Ion:130 Resp: 49983

Ion Ratio Lower Upper

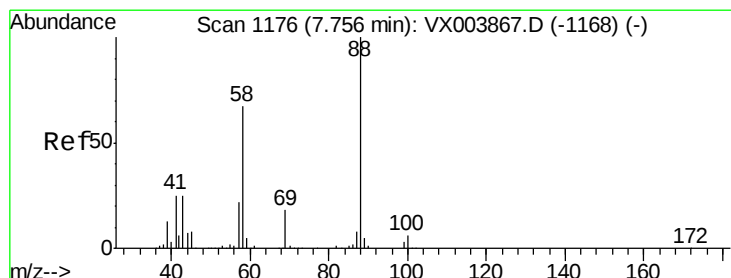
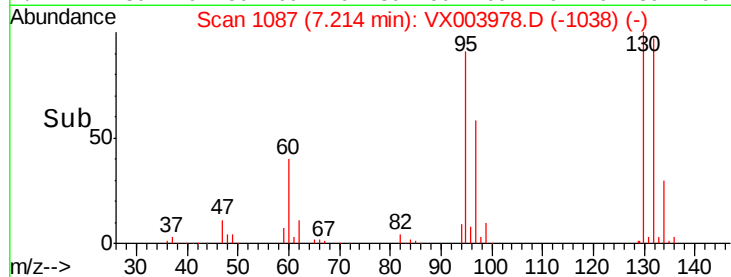
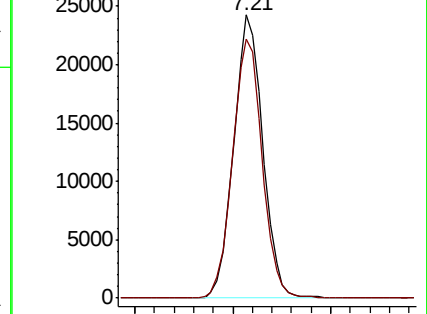
130 100

95 91.5 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 4.23 ug/l

RT: 7.76 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

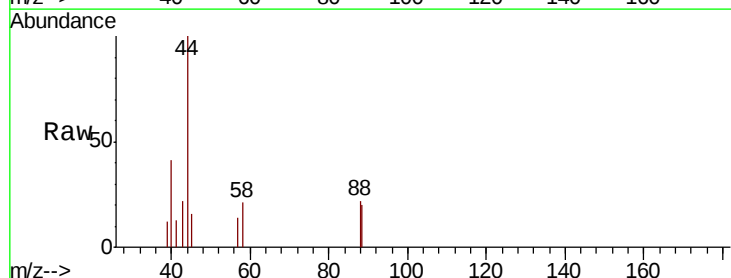
Tgt Ion: 88 Resp: 411

Ion Ratio Lower Upper

88 100

43 53.0 23.8 35.8#

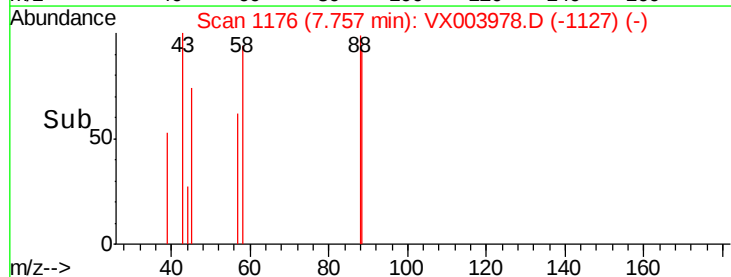
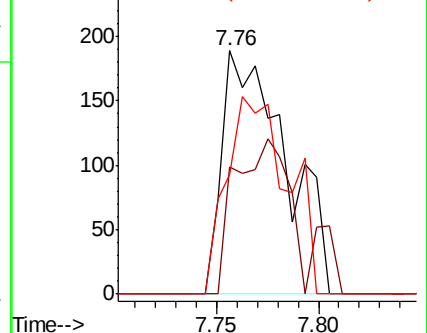
58 77.9 55.4 83.0

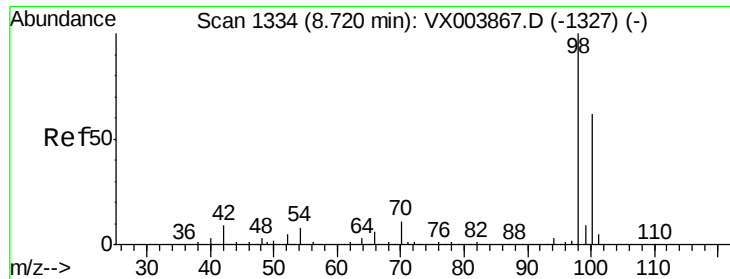


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.56 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

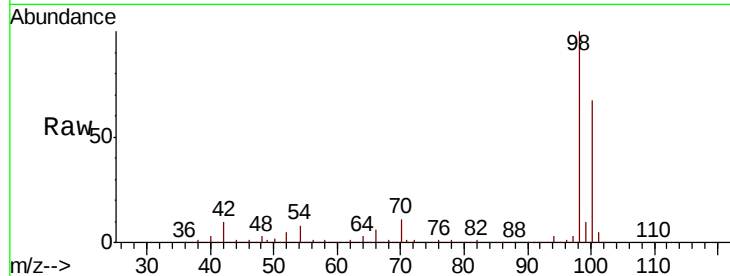
MW-101I

Tot Ion: 98 Resp: 613317

Ion Ratio Lower Upper

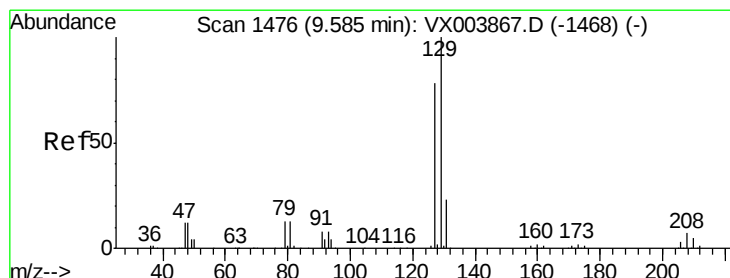
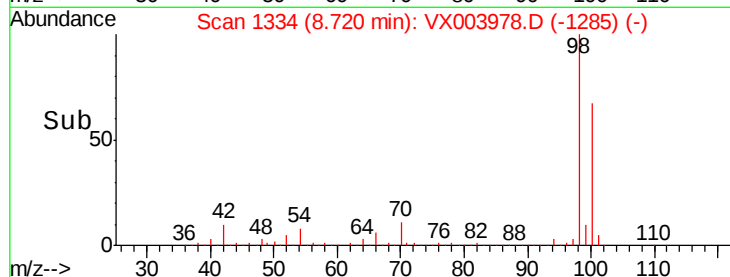
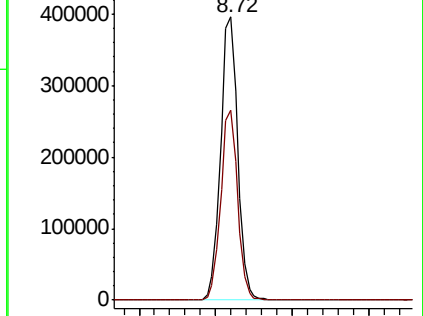
98 100

100 66.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 29.70 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX003978.D

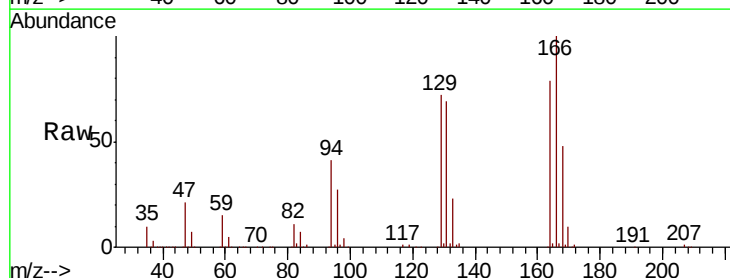
Acq: 10 Aug 2018 15:50

Tgt Ion:129 Resp: 105241

Ion Ratio Lower Upper

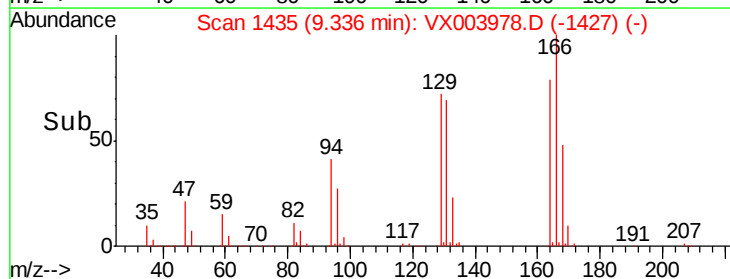
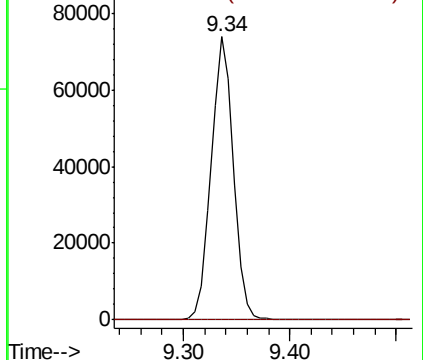
129 100

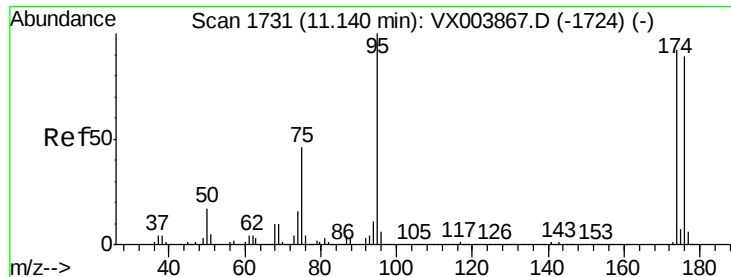
127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

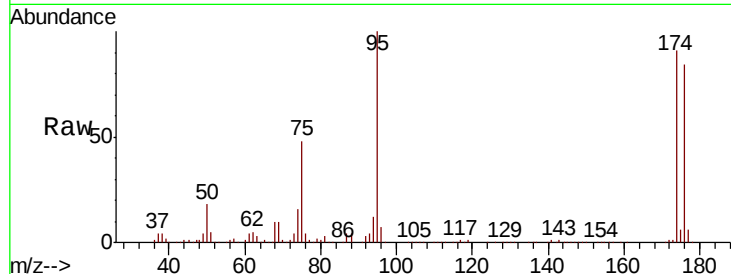




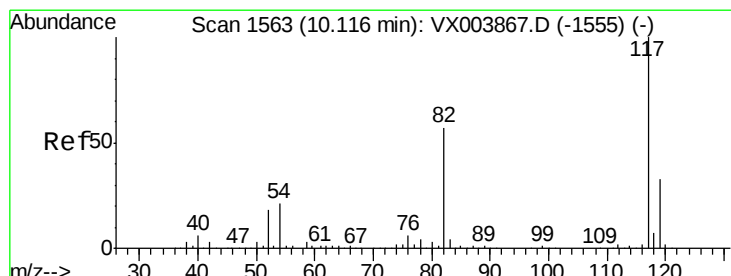
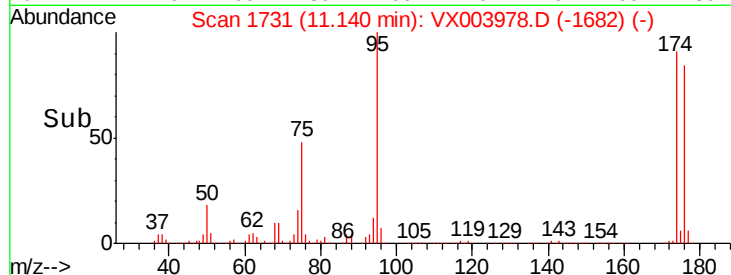
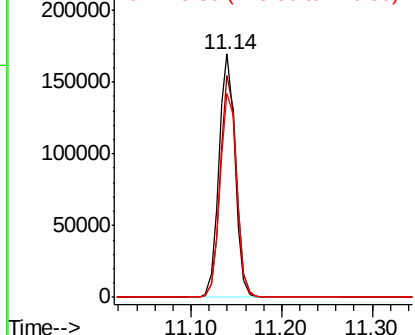
#62
4-Bromofluorobenzene
Concen: 50.51 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003978.D
Acq: 10 Aug 2018 15:50

Instrument :
MSVOA_X
ClientSampled :
MW-101I

Tot Ion: 95 Resp: 210762
Ion Ratio Lower Upper
95 100
174 92.3 0.0 182.8
176 87.3 0.0 179.0

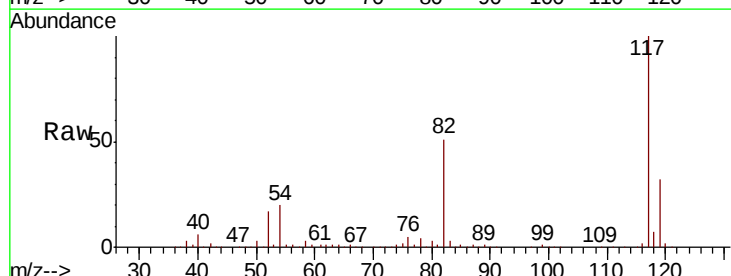


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

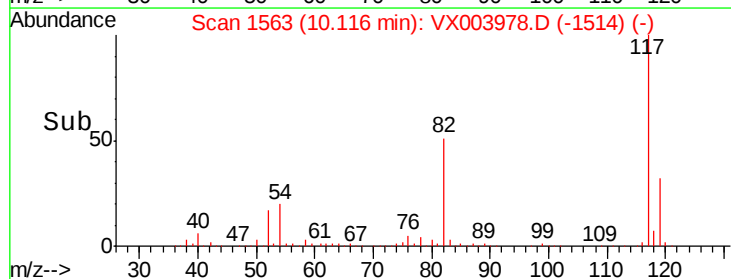
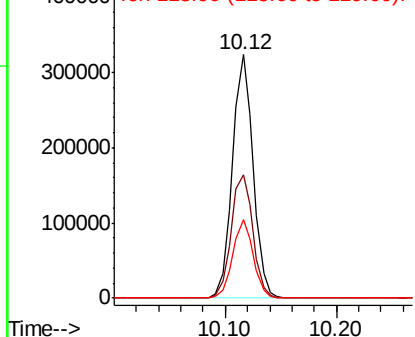


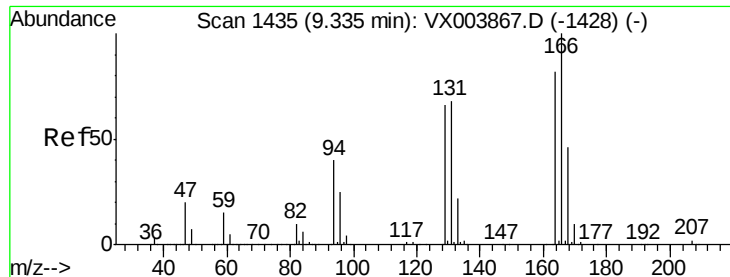
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003978.D
Acq: 10 Aug 2018 15:50

Tgt Ion: 117 Resp: 415618
Ion Ratio Lower Upper
117 100
82 50.9 45.4 68.0
119 32.4 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





#64

Tetrachloroethene

Concen: 28.90 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. 0.00 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

MW-101I

Tot Ion:164 Resp: 118149

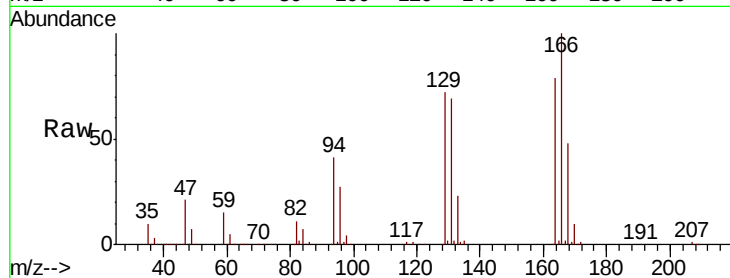
Ion Ratio Lower Upper

164 100

166 126.4 98.0 147.0

129 90.8 64.3 96.5

131 86.8 66.8 100.2

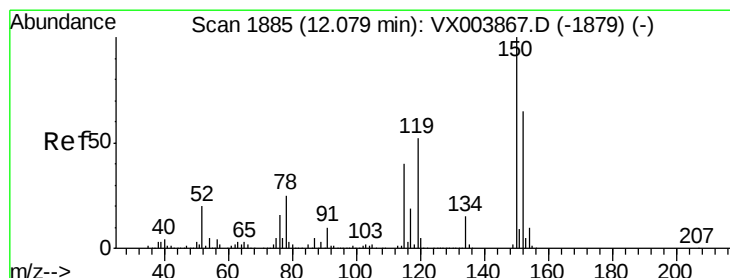
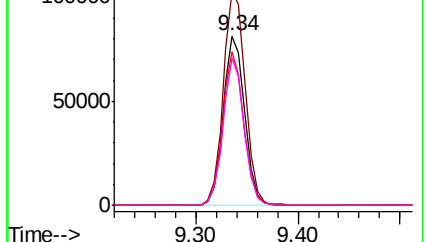
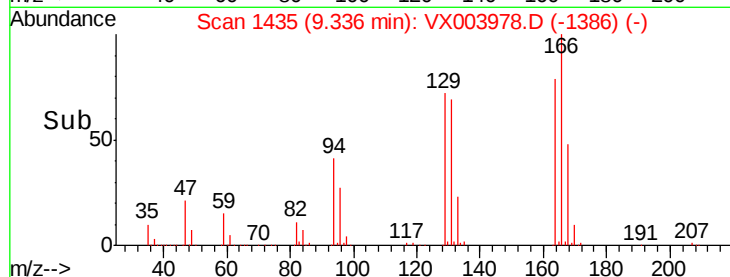


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX003978.D

Acq: 10 Aug 2018 15:50

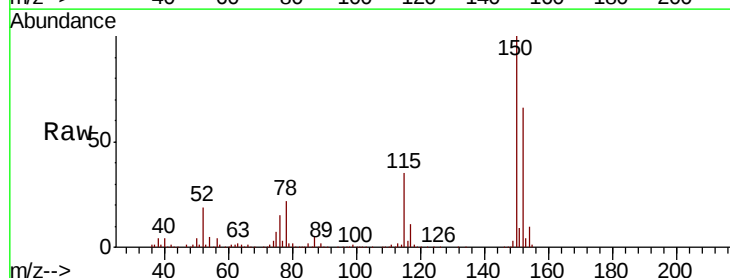
Tgt Ion:152 Resp: 217909

Ion Ratio Lower Upper

152 100

115 53.6 39.1 117.3

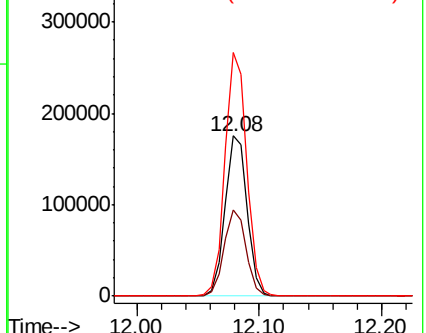
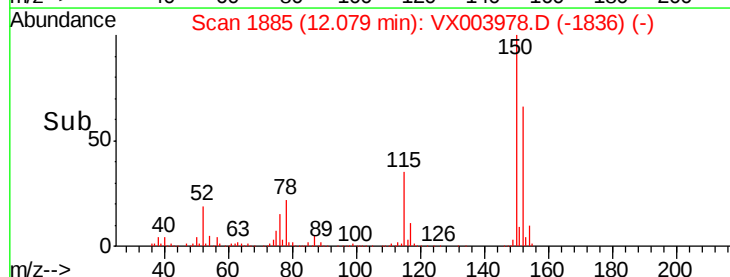
150 149.7 0.0 349.2

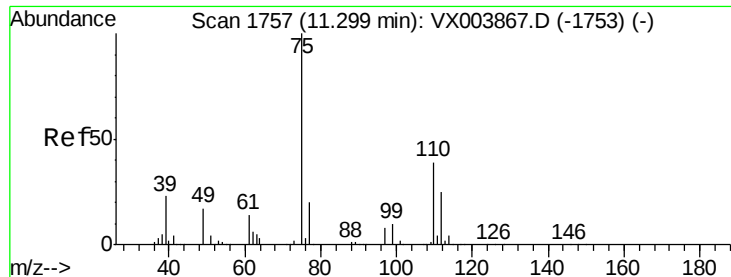


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

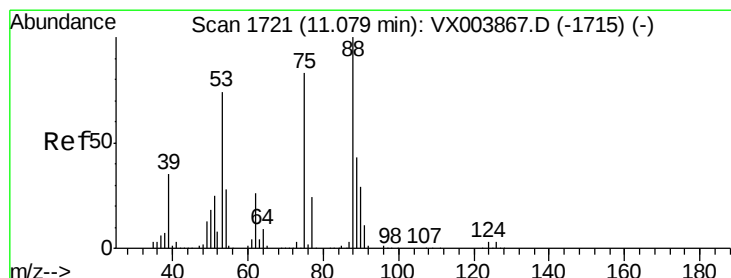
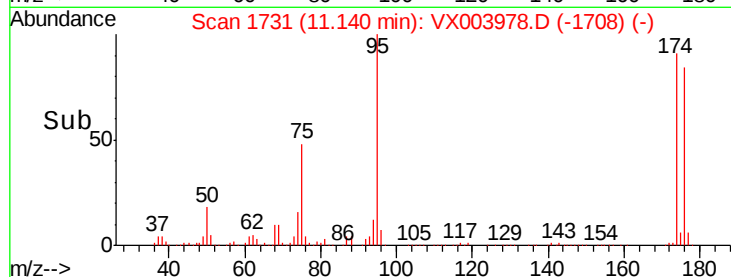
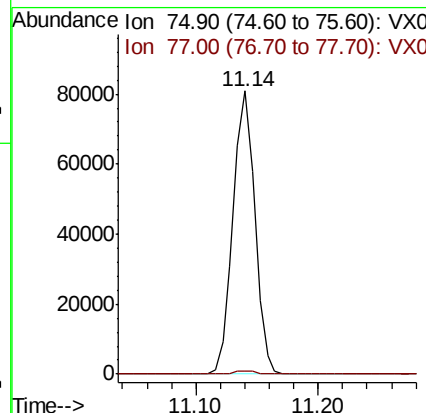
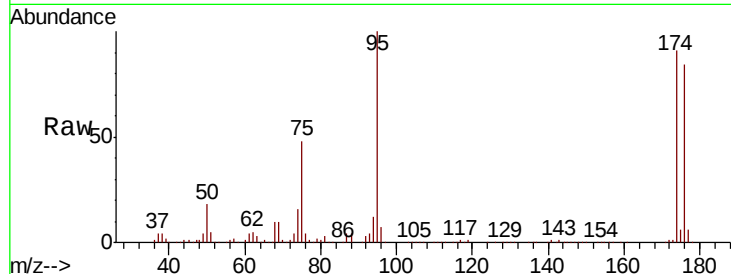
MW-101I

Tot Ion: 75 Resp: 100399

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

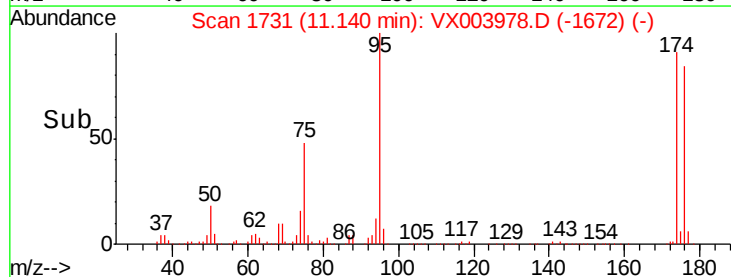
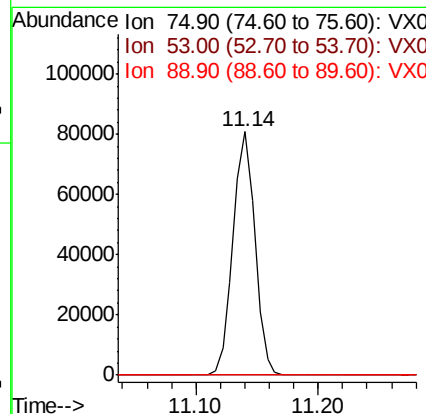
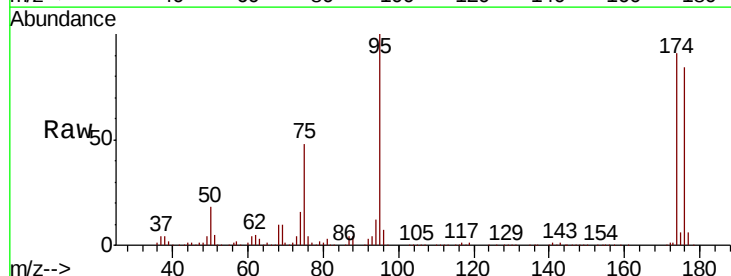
Tgt Ion: 75 Resp: 100399

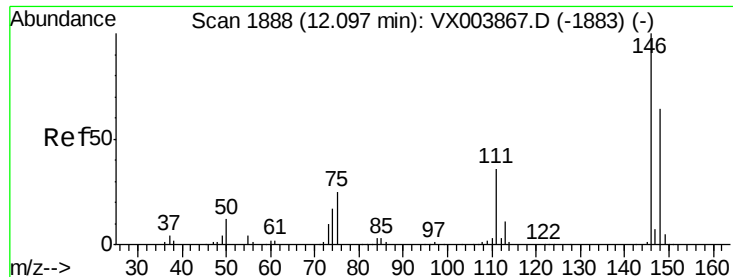
Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.10 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampled :

MW-101I

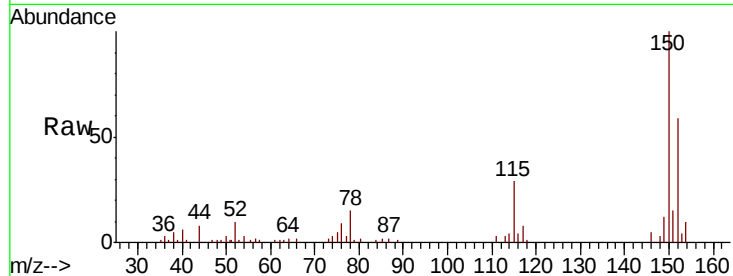
Tot Ion:146 Resp: 409

Ion Ratio Lower Upper

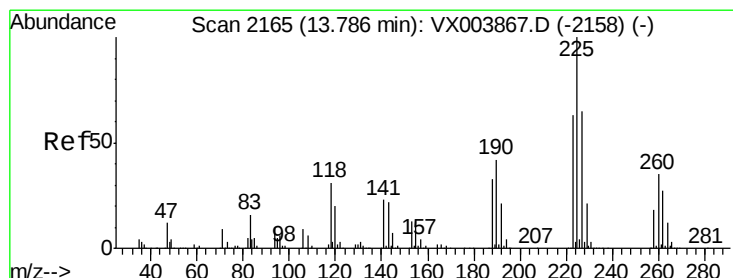
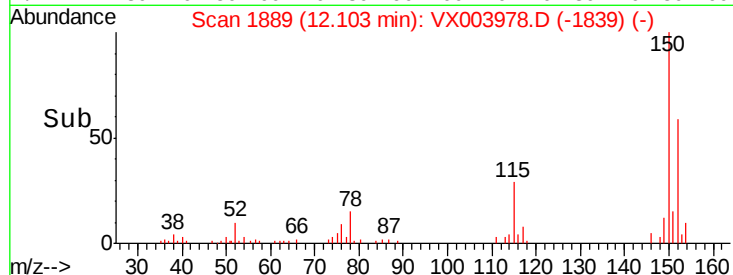
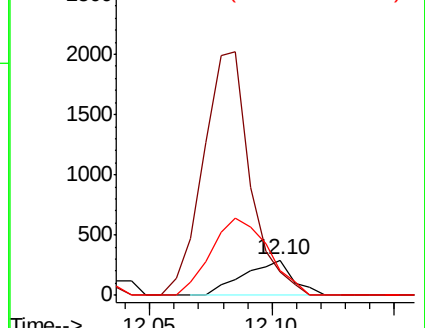
146 100

111 665.0 18.4 55.0#

148 256.5 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



#94

Hexachlorobutadiene

Concen: 0.49 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003978.D

Acq: 10 Aug 2018 15:50

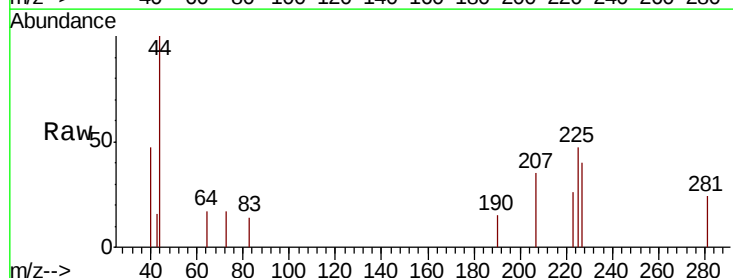
Tgt Ion:225 Resp: 160

Ion Ratio Lower Upper

225 100

223 42.5 31.4 94.0

227 60.0 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

