

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081018\
 Data File : VX003975.D
 Acq On : 10 Aug 2018 14:30
 Operator : JC/MD
 Sample : J4379-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-102I

Quant Time: Aug 11 01:44:28 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	320361	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	499969	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	465007	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	255033	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	221695	52.20	ug/l	0.00
Spiked Amount						
			Recovery	=	104.40%	
35) Dibromofluoromethane	5.51	113	192562	50.84	ug/l	0.00
Spiked Amount						
			Recovery	=	101.68%	
50) Toluene-d8	8.72	98	702346	47.68	ug/l	0.00
Spiked Amount						
			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	11.14	95	242591	50.90	ug/l	0.00
Spiked Amount						
			Recovery	=	101.80%	

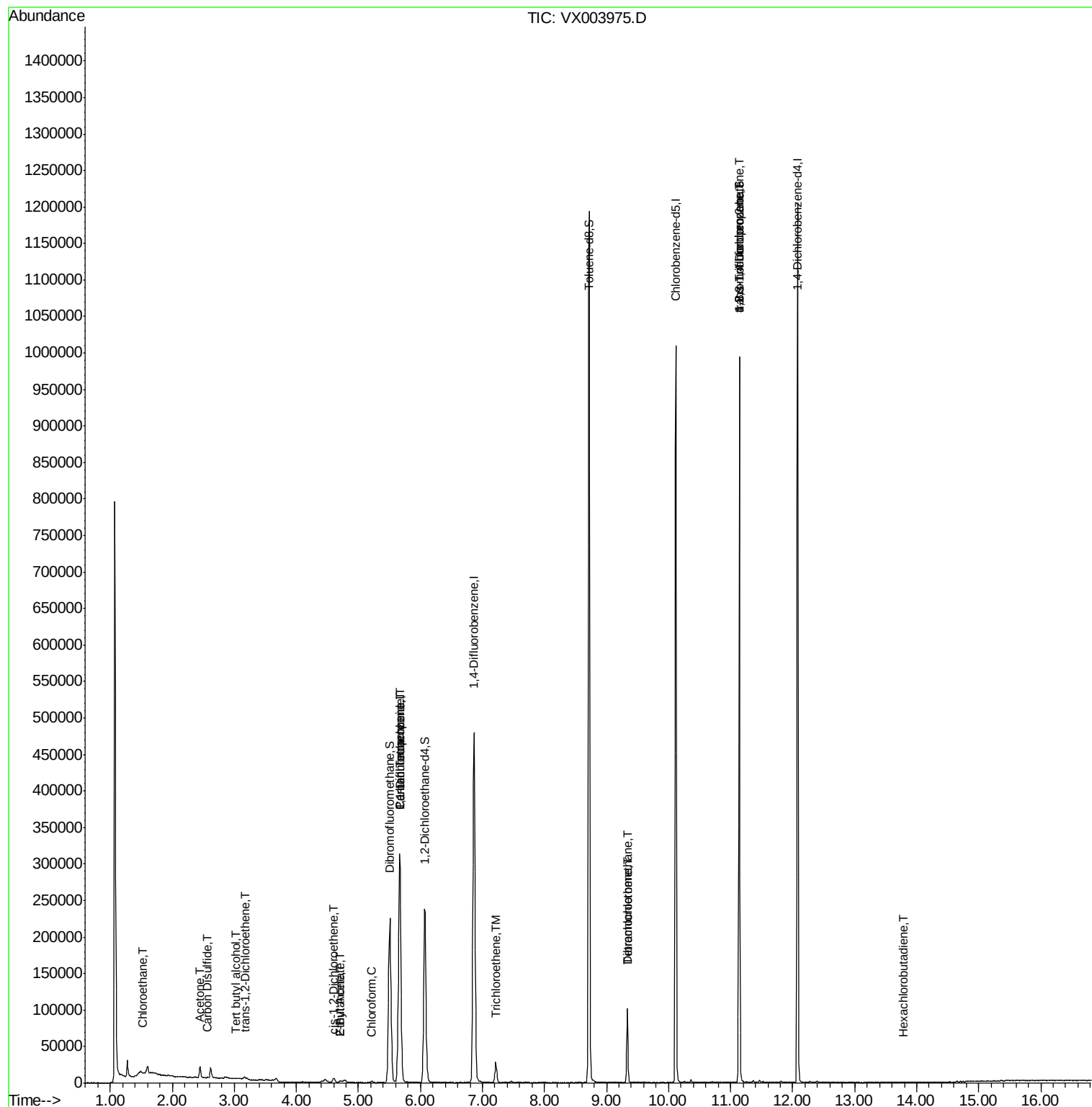
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1115	Below Cal		93
6) Chloroethane	1.52	64	8257	2.93 ug/l	#	49
11) Tert butyl alcohol	3.02	59	380	0.37 ug/l	#	91
13) Acrolein	2.31	56	276	Below Cal	#	33
16) Acetone	2.45	43	15815	6.26 ug/l		97
17) Carbon Disulfide	2.57	76	1324	0.57 ug/l		99
20) Methylene Chloride	2.86	84	695	Below Cal	#	82
21) trans-1,2-Dichloroethene	3.17	96	795	0.20 ug/l	#	63
25) 2-Butanone	4.71	43	4080	1.07 ug/l	#	82
27) cis-1,2-Dichloroethene	4.60	96	3284	0.78 ug/l		78
30) Chloroform	5.22	83	1837	0.27 ug/l		85
36) 1,1-Dichloropropene	5.67	75	21368	3.82 ug/l	#	48
37) Ethyl Acetate	4.71	43	4080	0.66 ug/l	#	67
38) Carbon Tetrachloride	5.66	117	28145	5.28 ug/l	#	15
44) Trichloroethene	7.21	130	10899	2.37 ug/l		99
60) Dibromochloromethane	9.34	129	18110	4.47 ug/l	#	11
64) Tetrachloroethene	9.34	164	20784	4.54 ug/l	#	89
76) 1,2,3-Trichloropropane	11.14	75	116849	20.74 ug/l	#	36
81) trans-1,4-Dichloro-2-buten	11.14	75	116849	56.14 ug/l	#	9
88) 1,4-Dichlorobenzene	12.03	146	250	Below Cal		84
94) Hexachlorobutadiene	13.79	225	142	0.48 ug/l		87

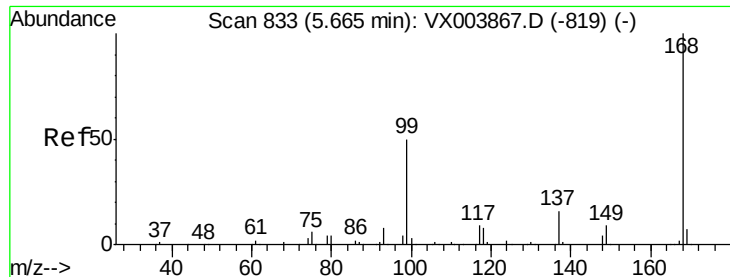
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

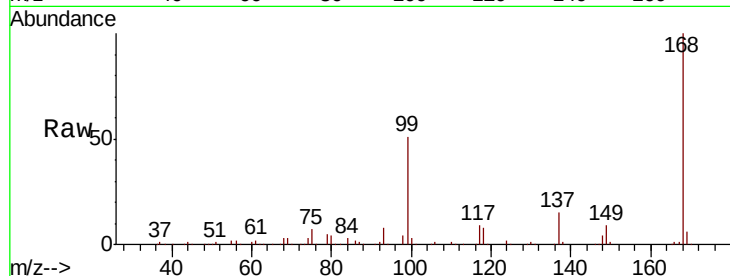
MW-102I

Tot Ion:168 Resp: 320361

Ion Ratio Lower Upper

168 100

99 50.6 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

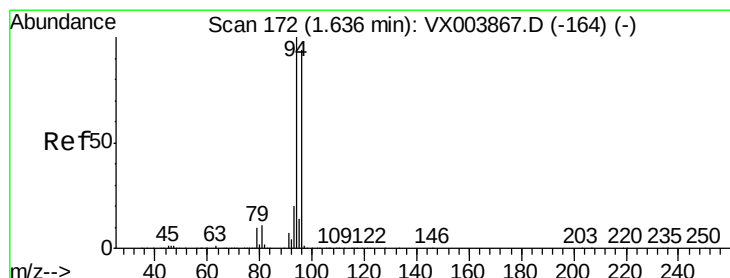
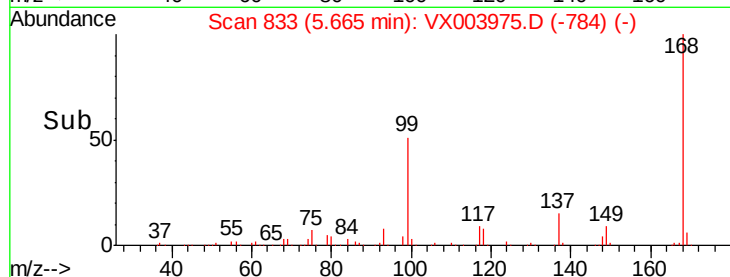
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003975.D

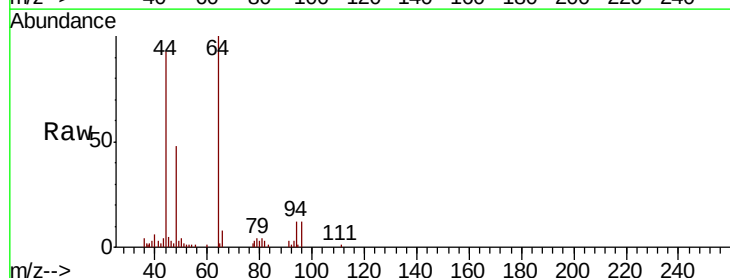
Acq: 10 Aug 2018 14:30

Tgt Ion: 94 Resp: 1115

Ion Ratio Lower Upper

94 100

96 100.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

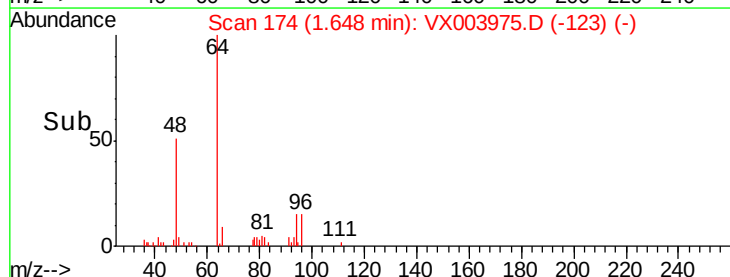
300

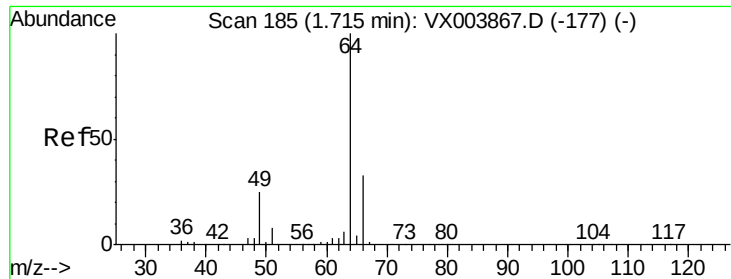
200

100

0

Time--> 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 2.93 ug/l

RT: 1.52 min Scan# 153

Delta R.T. -0.20 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

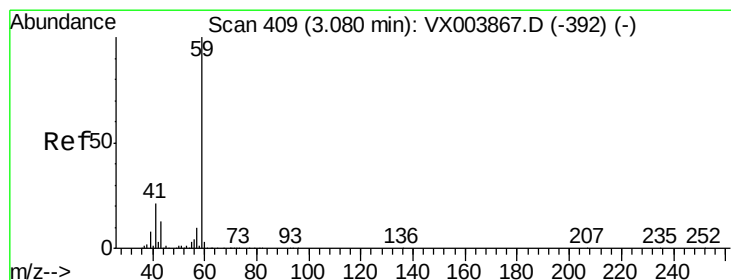
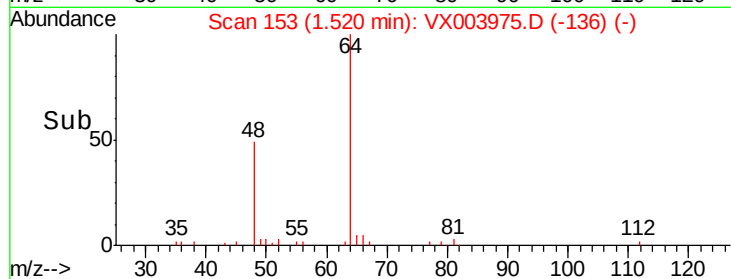
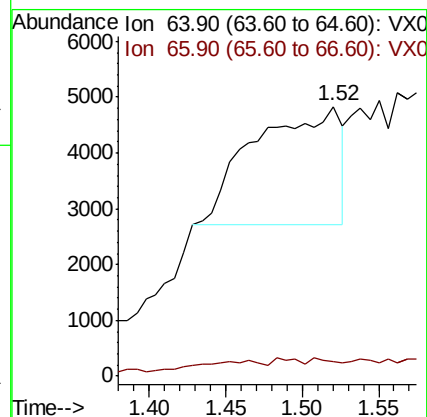
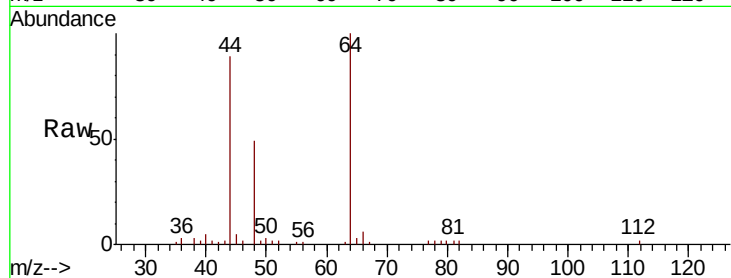
MW-102I

Tot Ion: 64 Resp: 8257

Ion Ratio Lower Upper

64 100

66 4.1 26.5 39.7#



#11

Tert butyl alcohol

Concen: 0.37 ug/l

RT: 3.02 min Scan# 399

Delta R.T. -0.06 min

Lab File: VX003975.D

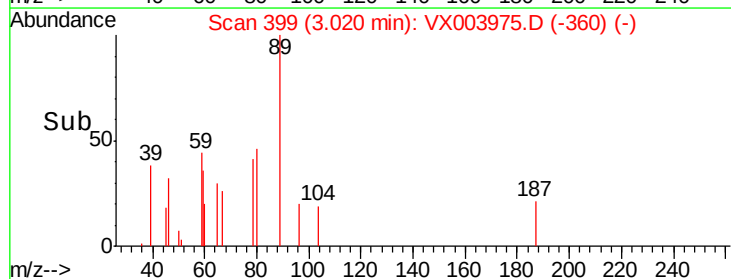
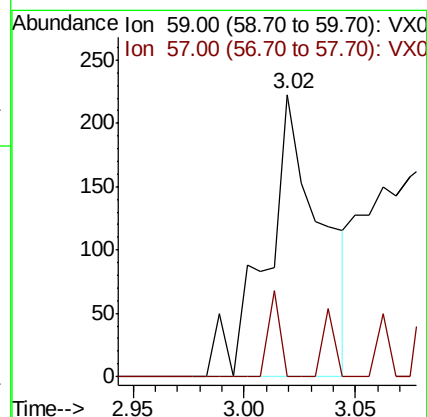
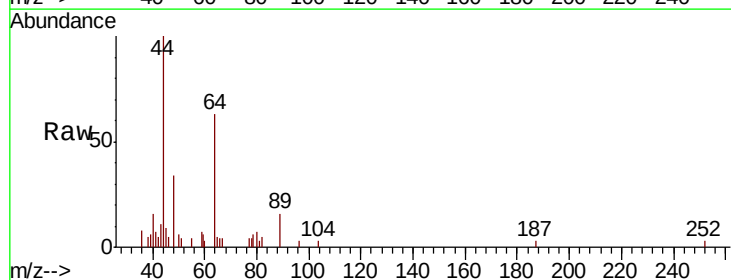
Acq: 10 Aug 2018 14:30

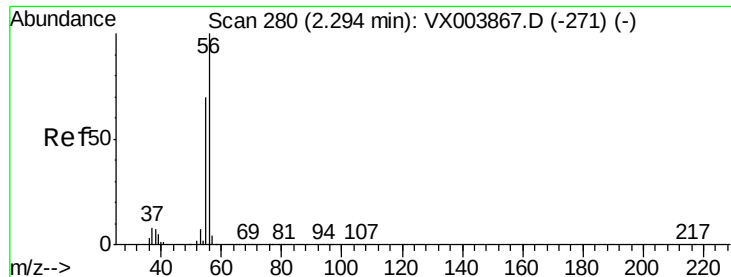
Tgt Ion: 59 Resp: 380

Ion Ratio Lower Upper

59 100

57 6.6 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

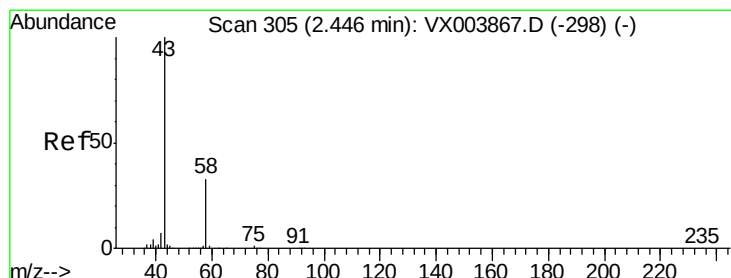
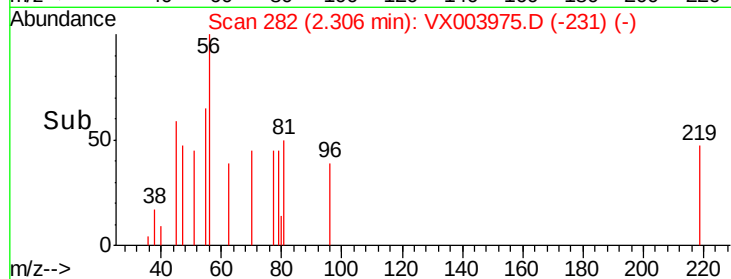
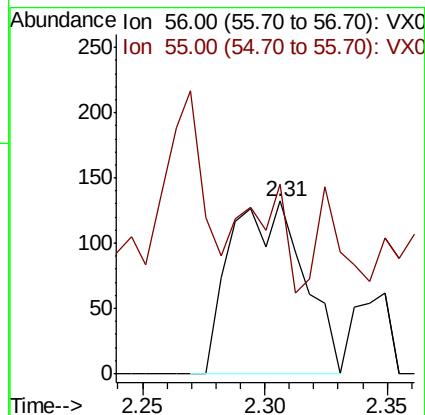
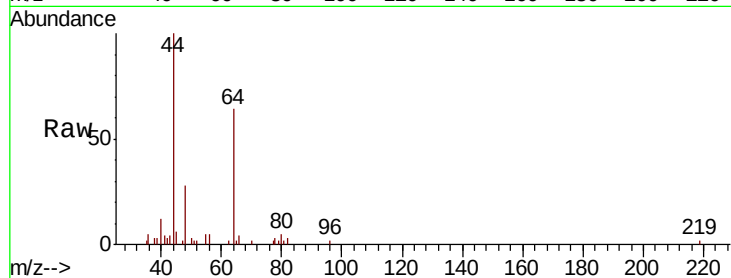
MW-102I

Tot Ion: 56 Resp: 276

Ion Ratio Lower Upper

56 100

55 15.2 56.1 84.1#



#16

Acetone

Concen: 6.26 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003975.D

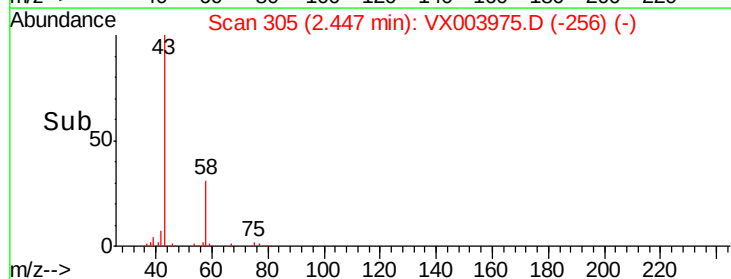
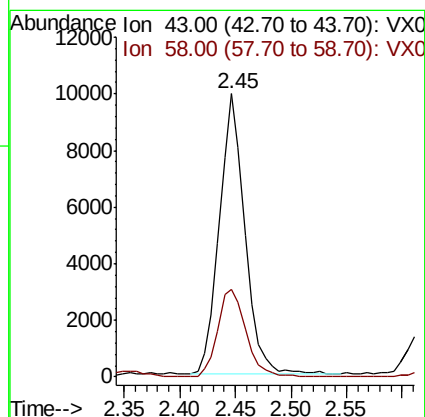
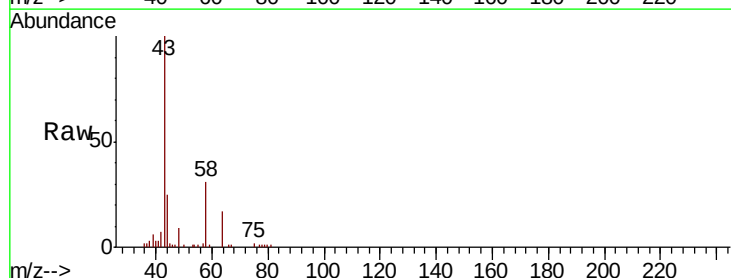
Acq: 10 Aug 2018 14:30

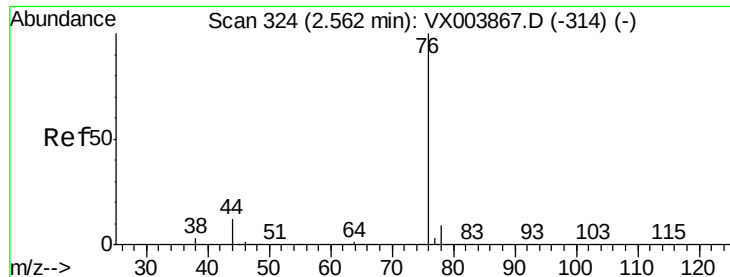
Tgt Ion: 43 Resp: 15815

Ion Ratio Lower Upper

43 100

58 31.1 26.4 39.6





#17

Carbon Disulfide

Concen: 0.57 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

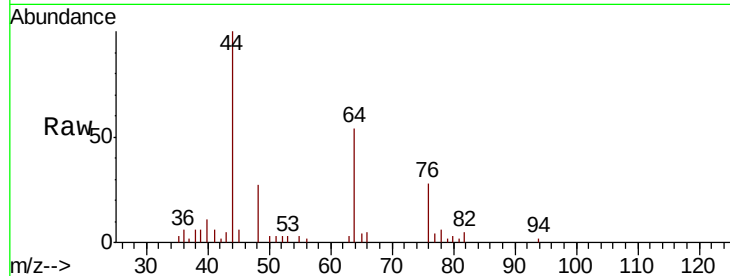
MW-102I

Tot Ion: 76 Resp: 1324

Ion Ratio Lower Upper

76 100

78 9.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

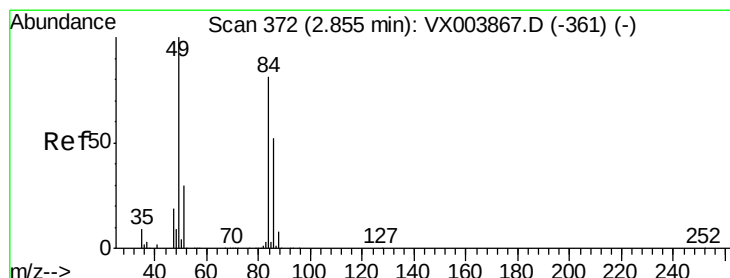
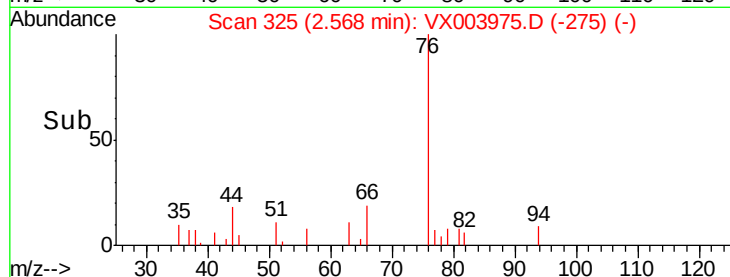
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Tgt Ion: 84 Resp: 695

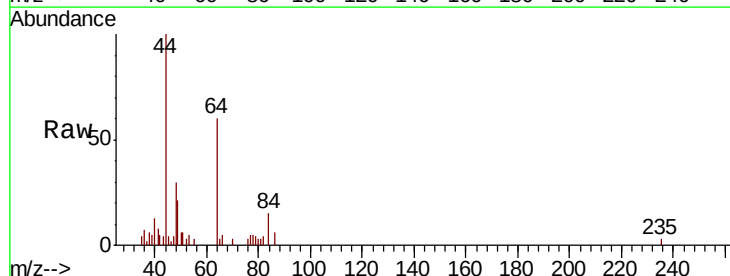
Ion Ratio Lower Upper

84 100

49 138.8 98.9 148.3

51 27.8 29.9 44.9#

86 41.7 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

800

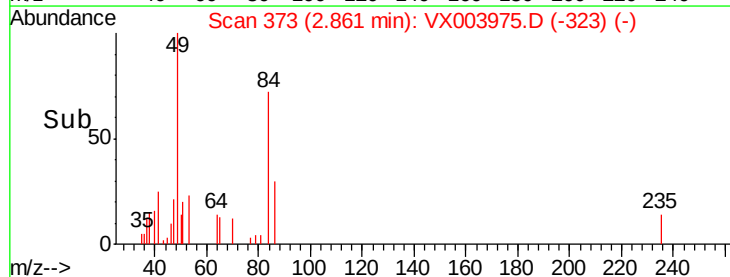
600

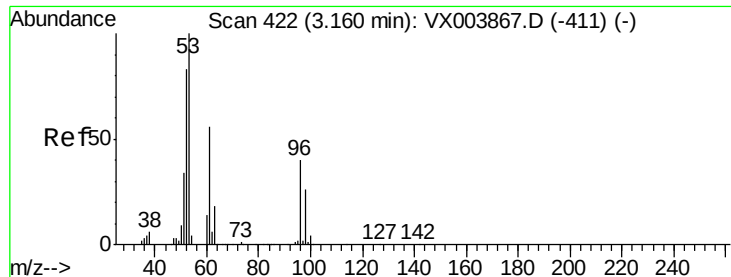
400

200

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.20 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

MW-102I

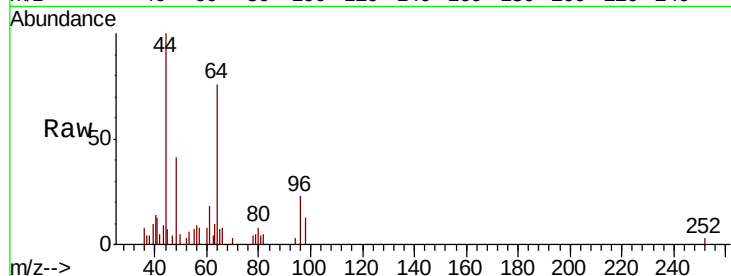
Tot Ion: 96 Resp: 795

Ion Ratio Lower Upper

96 100

61 79.9 111.8 167.6#

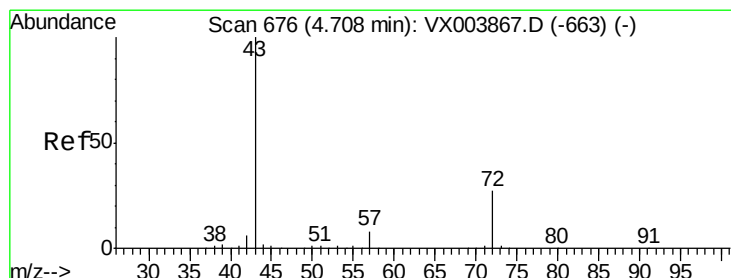
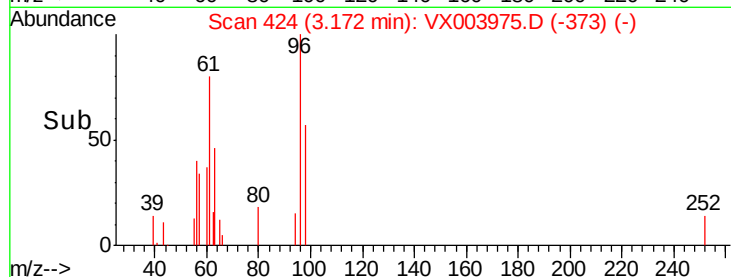
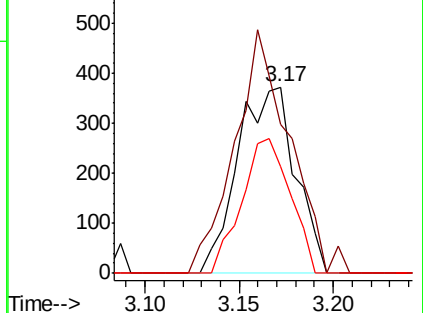
98 57.1 51.8 77.6



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



#25

2-Butanone

Concen: 1.07 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003975.D

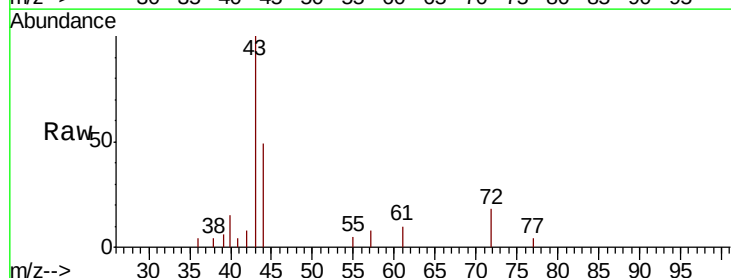
Acq: 10 Aug 2018 14:30

Tgt Ion: 43 Resp: 4080

Ion Ratio Lower Upper

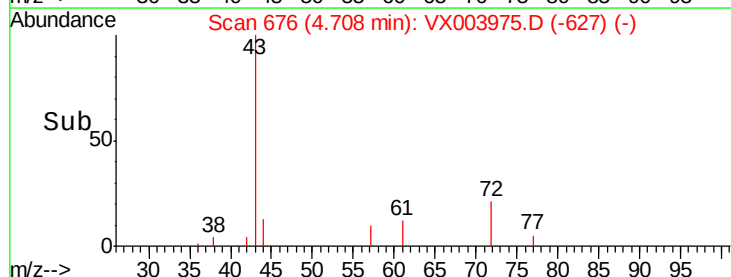
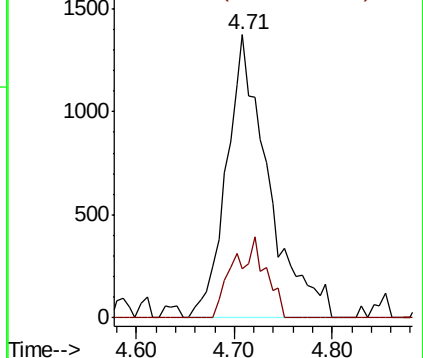
43 100

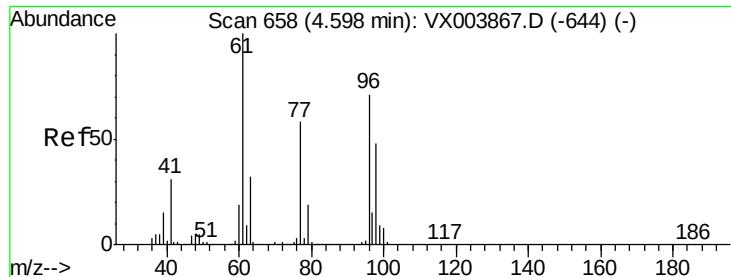
72 17.6 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.78 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003975.D

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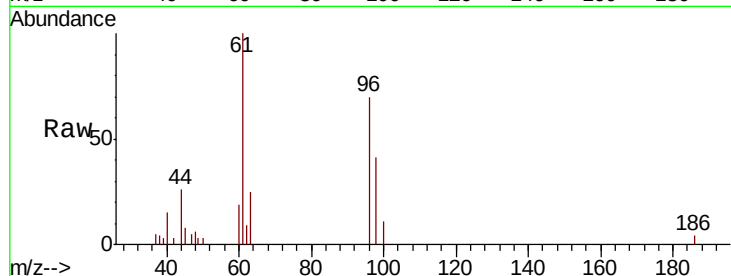
Tot Ion: 96 Resp: 3284

Ion Ratio Lower Upper

96 100

61 184.2 0.0 293.0

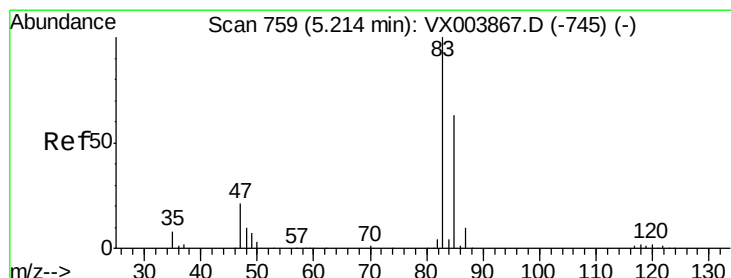
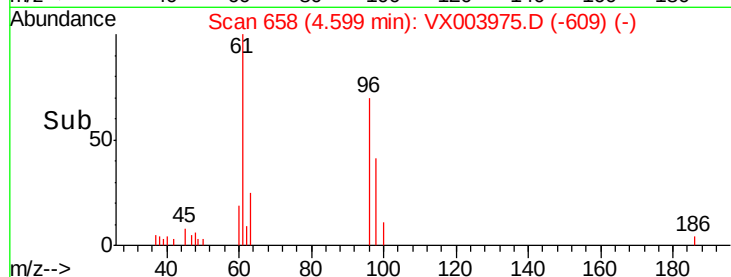
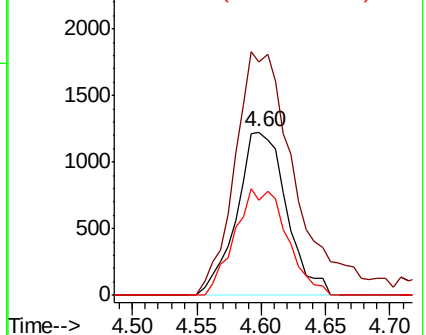
98 68.3 0.0 131.8



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: 0.27 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.01 min

Lab File: VX003975.D

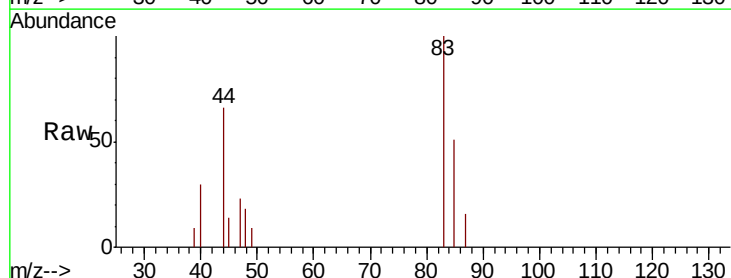
Acq: 10 Aug 2018 14:30

Tgt Ion: 83 Resp: 1837

Ion Ratio Lower Upper

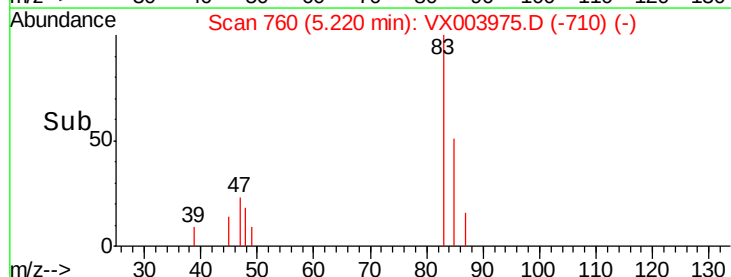
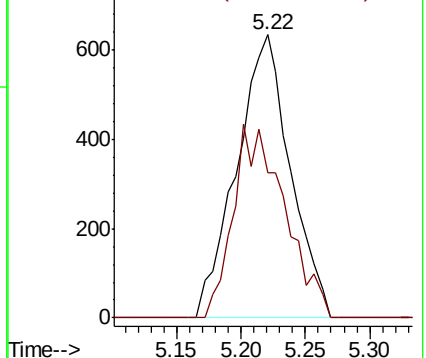
83 100

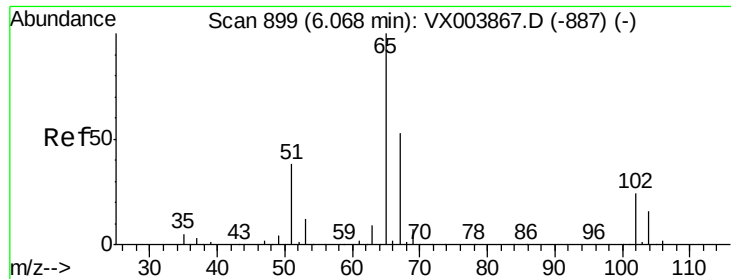
85 51.4 50.7 76.1



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

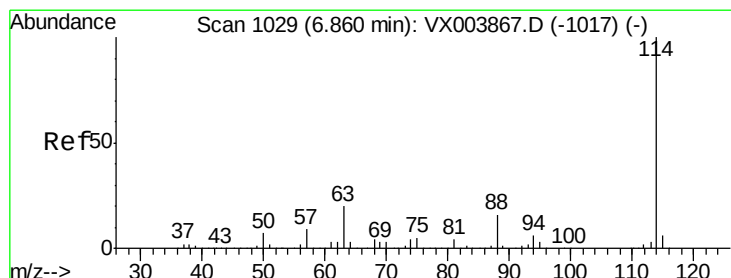
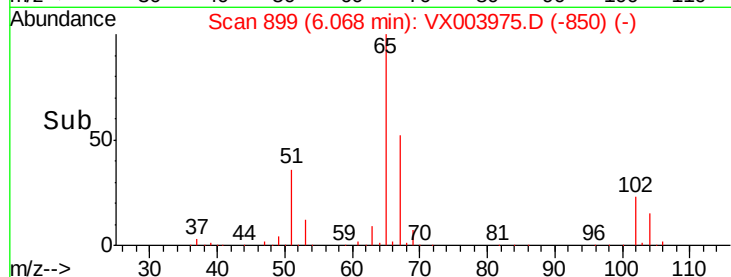
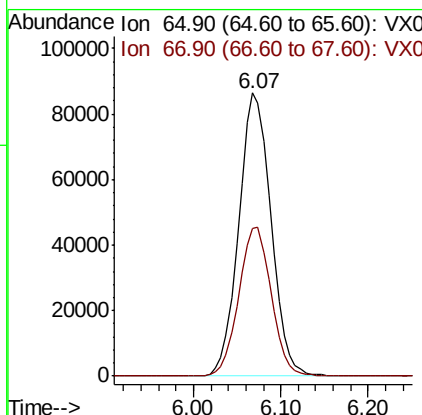
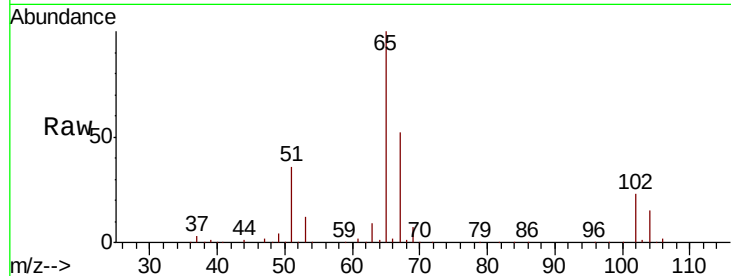




#33
 1,2-Dichloroethane-d4
 Concen: 52.20 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003975.D
 Acq: 10 Aug 2018 14:30

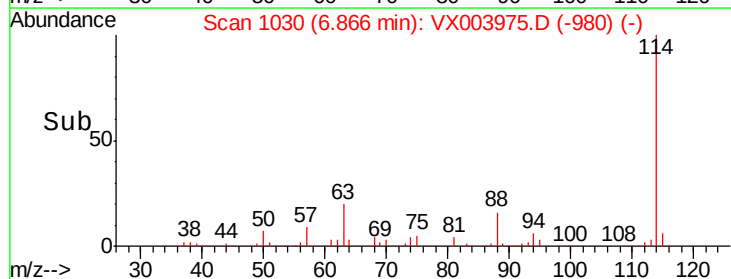
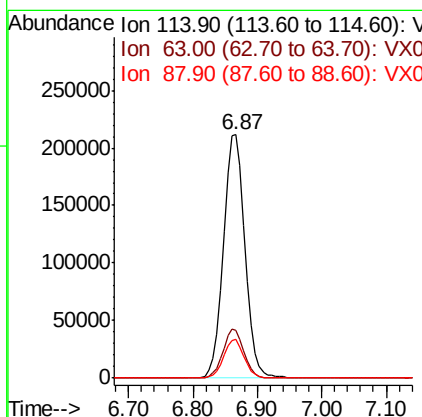
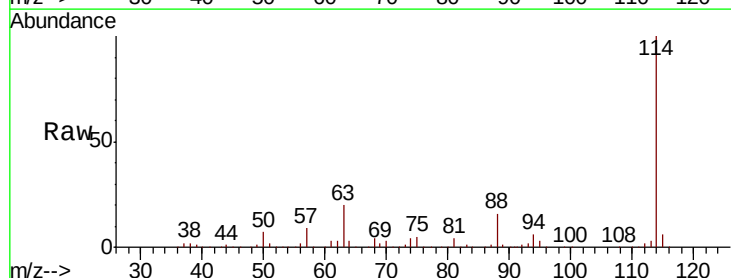
Instrument :
 MSVOA_X
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 MW-102I

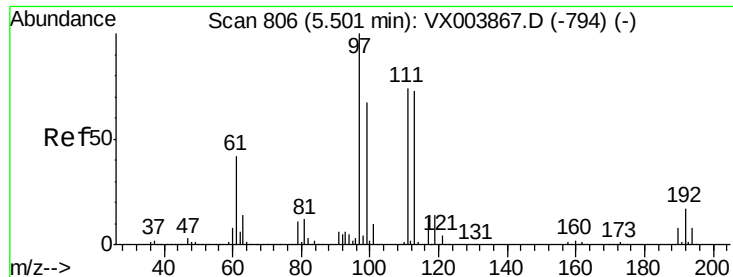
Tot Ion: 65 Resp: 221695
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003975.D
 Acq: 10 Aug 2018 14:30

Tgt Ion: 114 Resp: 499969
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.7 0.0 32.0





#35

Dibromofluoromethane

Concen: 50.84 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

MW-102I

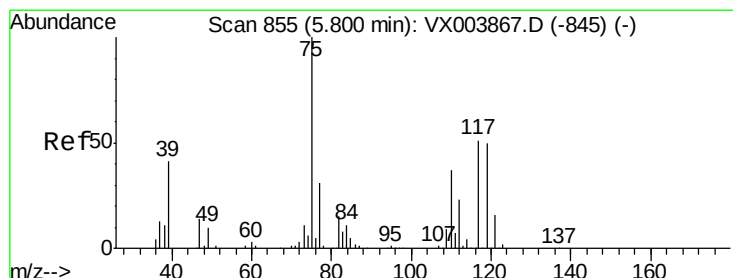
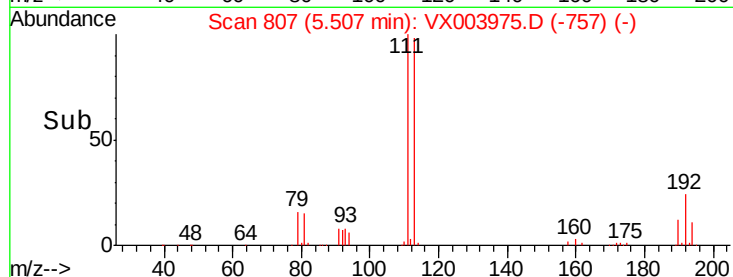
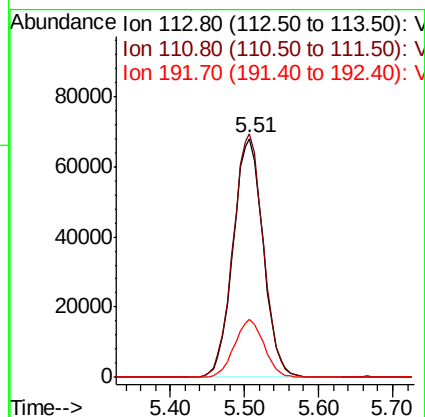
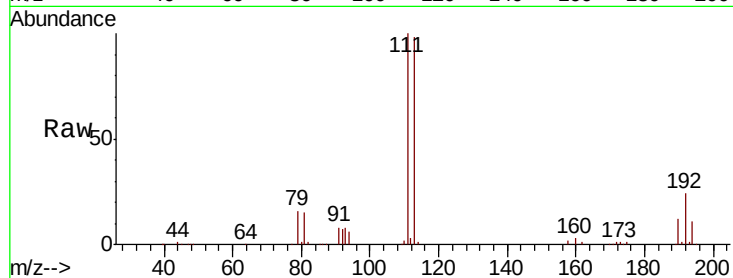
Tot Ion:113 Resp: 192562

Ion Ratio Lower Upper

113 100

111 102.0 82.0 123.0

192 23.9 19.0 28.4



#36

1,1-Dichloropropene

Concen: 3.82 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

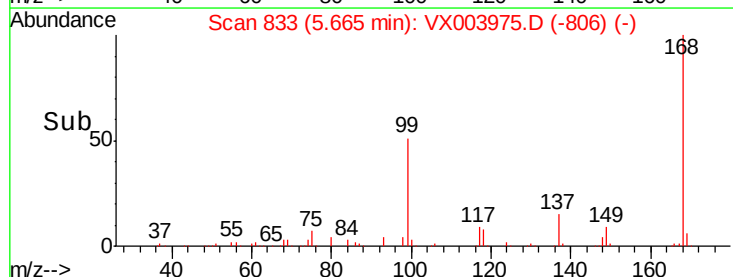
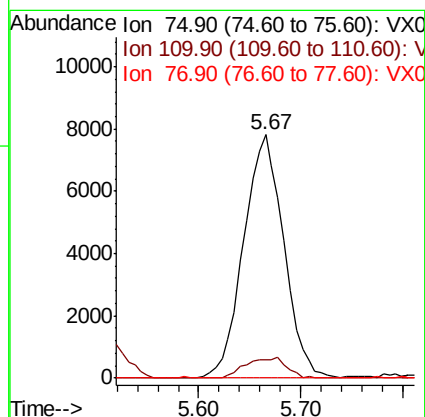
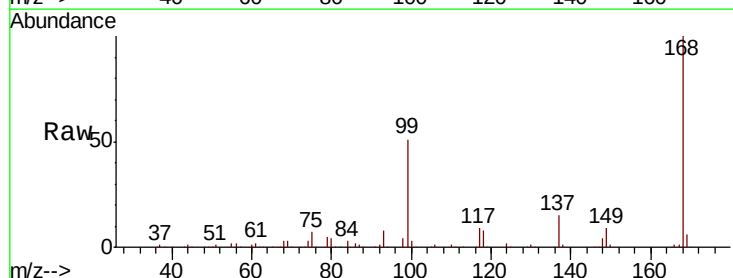
Tgt Ion: 75 Resp: 21368

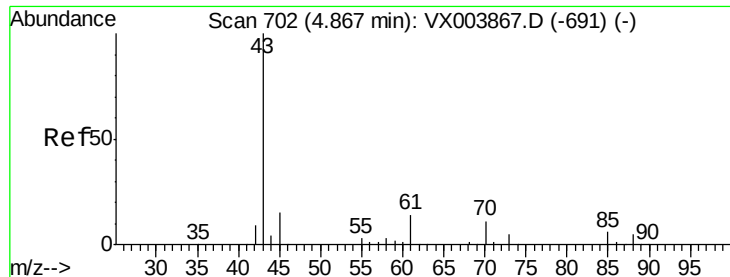
Ion Ratio Lower Upper

75 100

110 8.5 18.2 54.6#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.66 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.16 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

MW-102I

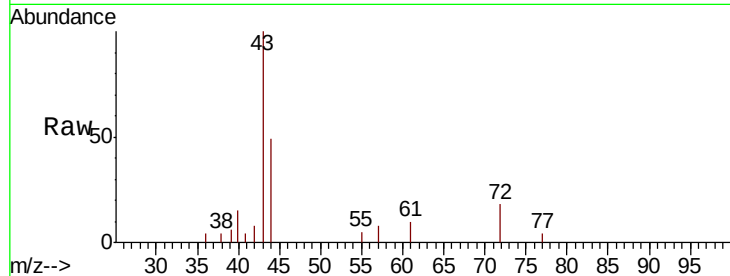
Tot Ion: 43 Resp: 4080

Ion Ratio Lower Upper

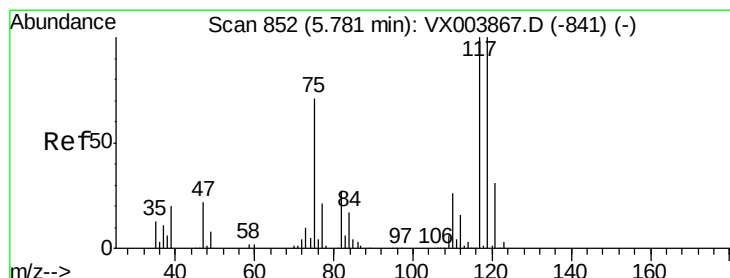
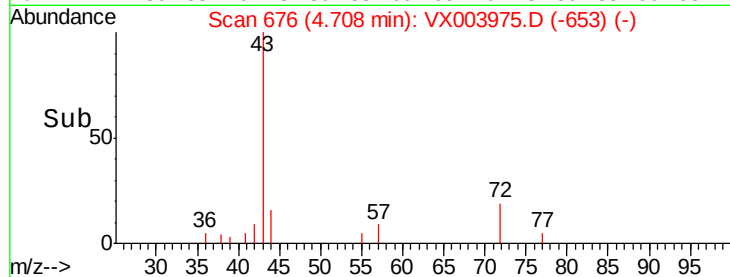
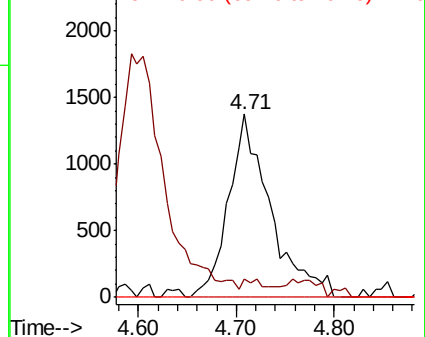
43 100

61 0.0 11.5 17.3#

70 0.0 9.0 13.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.28 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

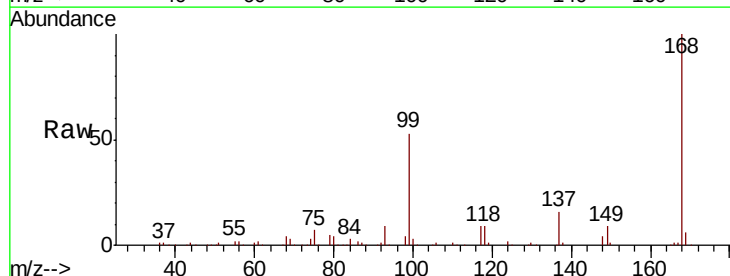
Tgt Ion: 117 Resp: 28145

Ion Ratio Lower Upper

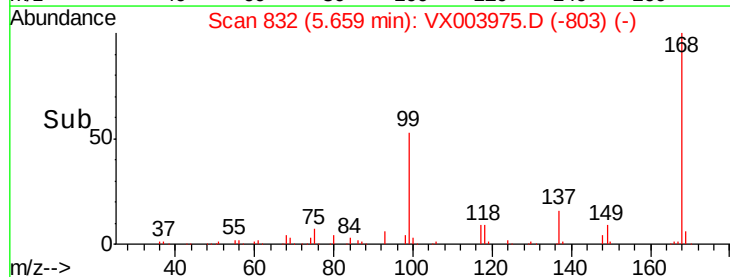
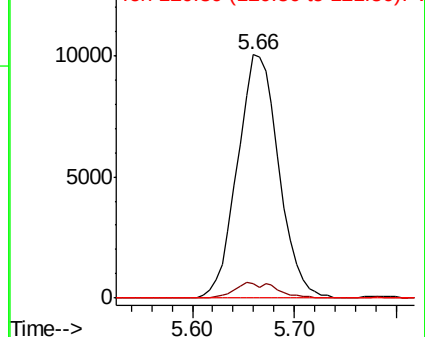
117 100

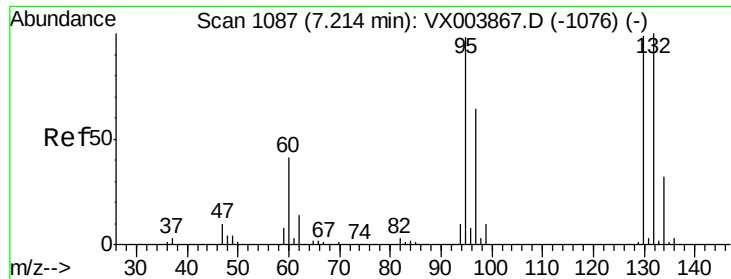
119 6.1 79.5 119.3#

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





#44

Trichloroethene

Concen: 2.37 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

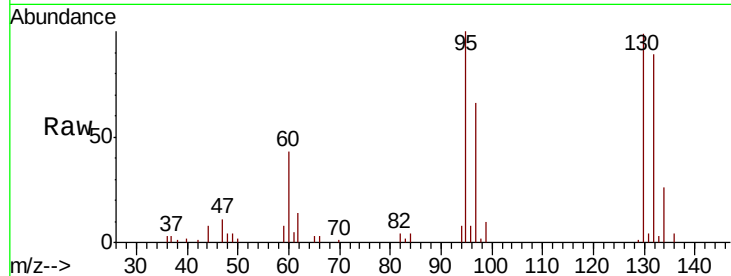
MW-102I

Tot Ion:130 Resp: 10899

Ion Ratio Lower Upper

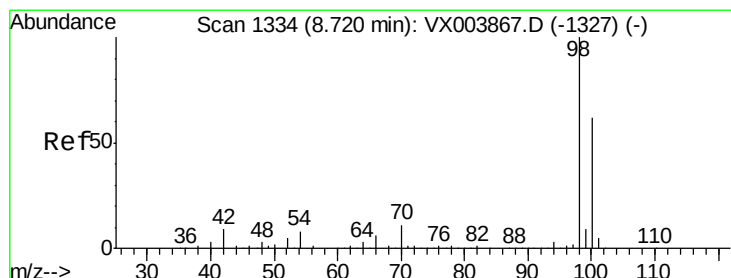
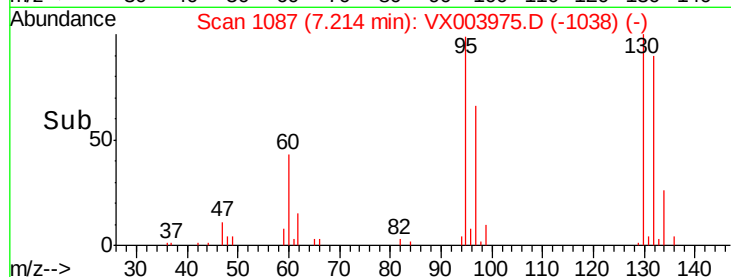
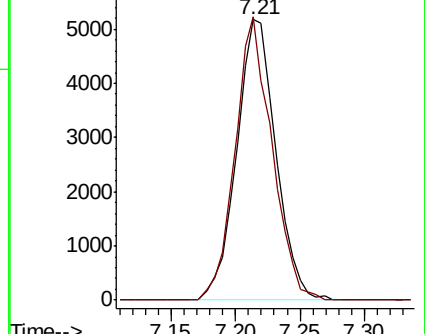
130 100

95 101.0 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 47.68 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003975.D

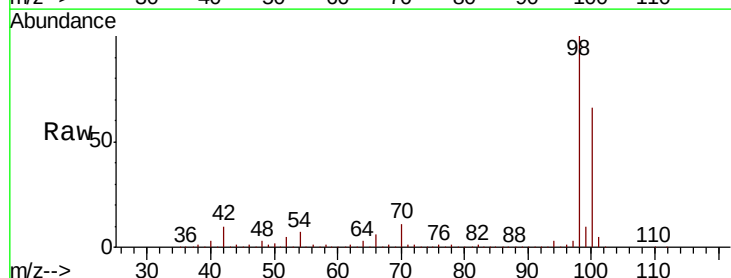
Acq: 10 Aug 2018 14:30

Tgt Ion: 98 Resp: 702346

Ion Ratio Lower Upper

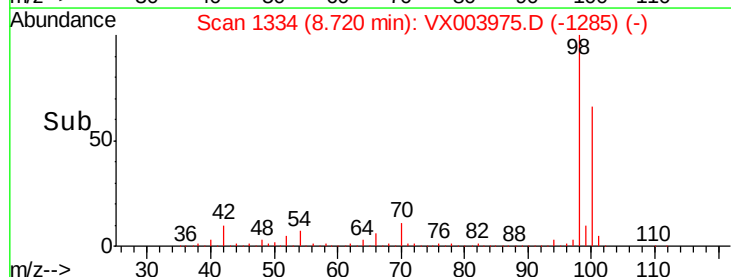
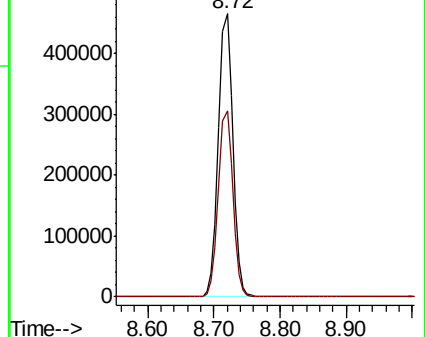
98 100

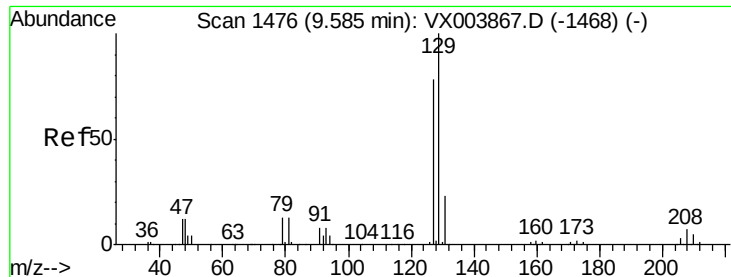
100 66.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 4.47 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampled :

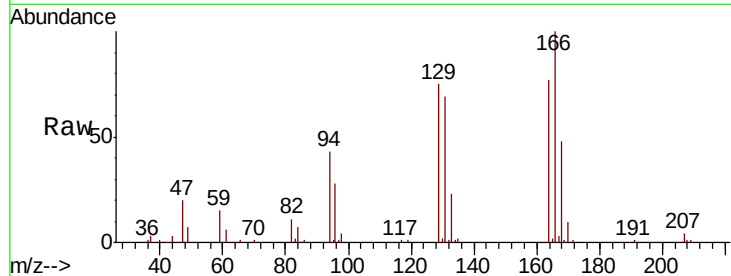
MW-102I

Tot Ion:129 Resp: 18110

Ion Ratio Lower Upper

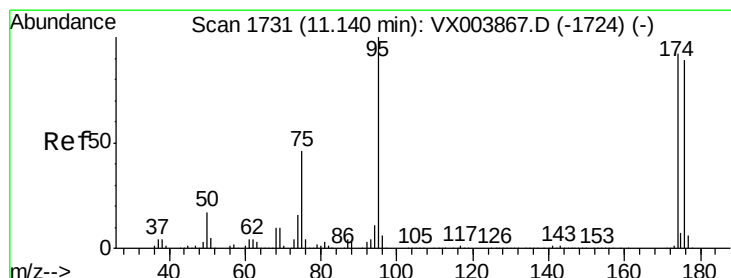
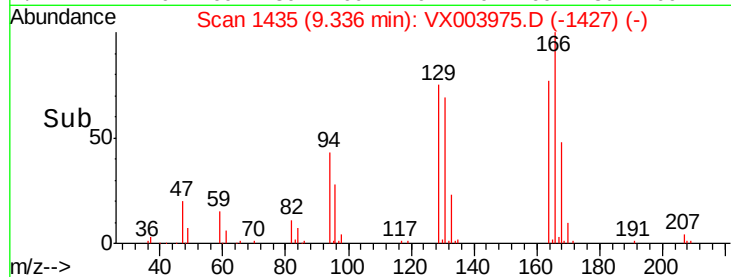
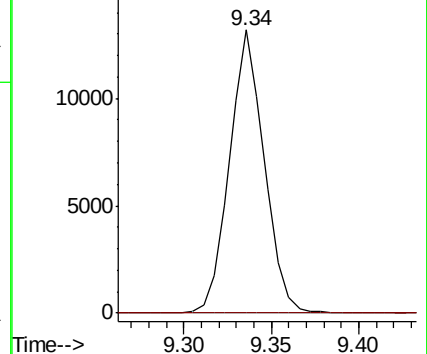
129 100

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: 50.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

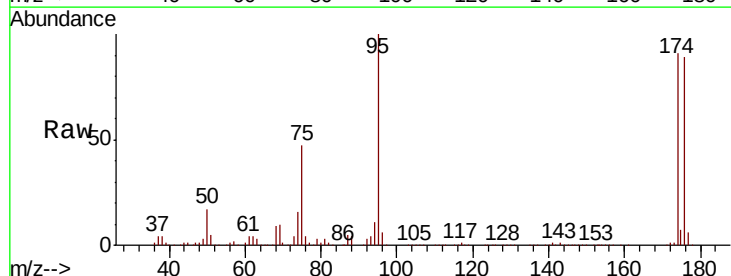
Tgt Ion: 95 Resp: 242591

Ion Ratio Lower Upper

95 100

174 92.0 0.0 182.8

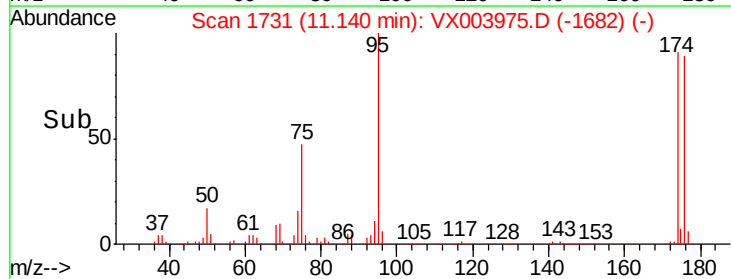
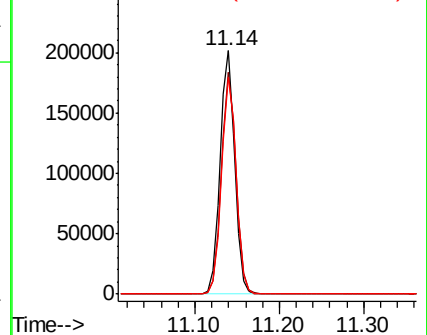
176 89.9 0.0 179.0

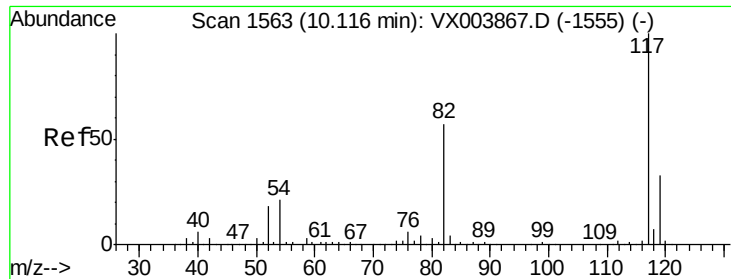


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

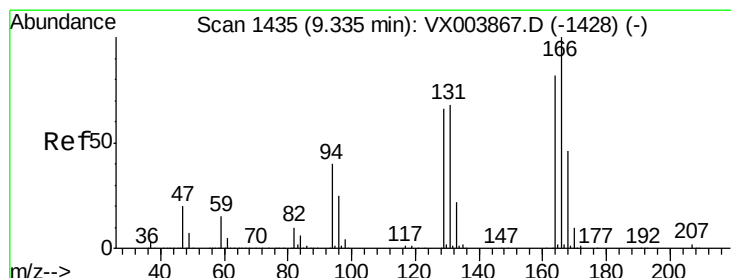
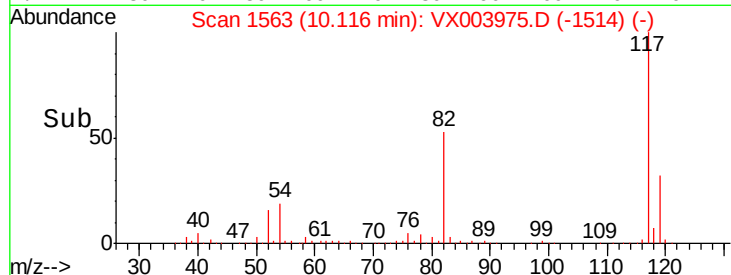
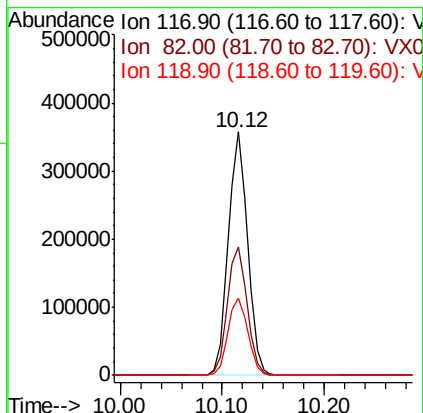
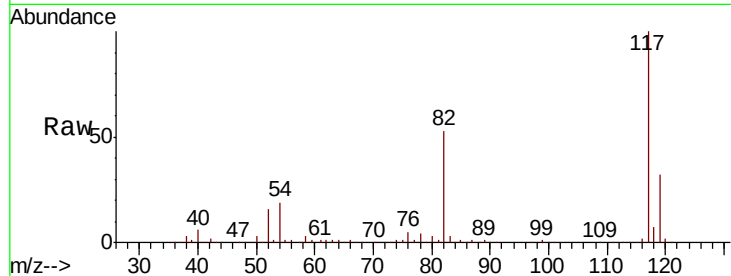




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003975.D
Acq: 10 Aug 2018 14:30

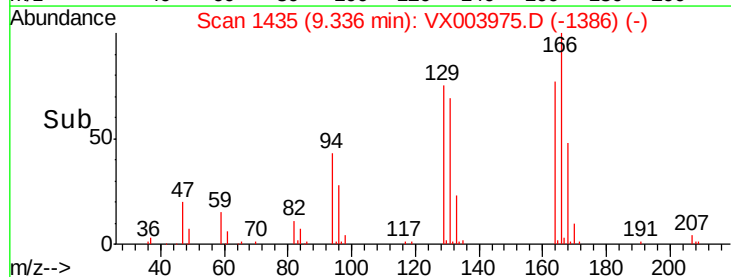
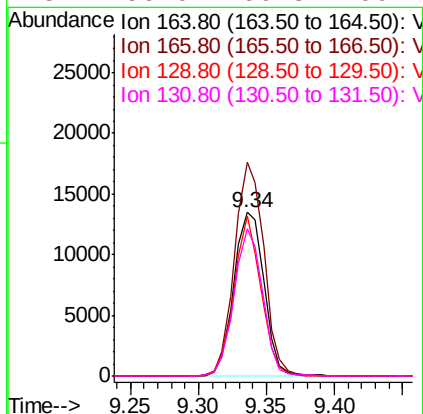
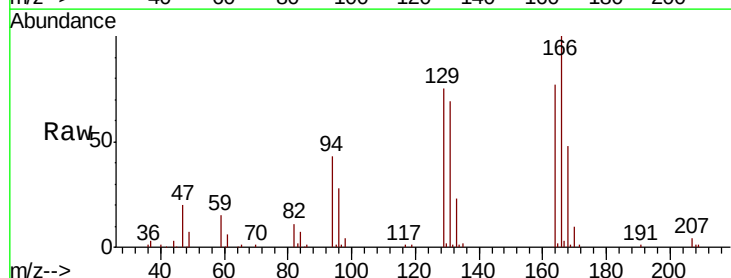
Instrument :
MSVOA_X
ClientSampleId :
MW-102I

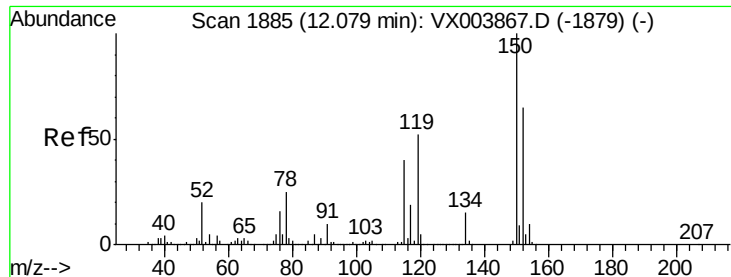
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	45.4	68.0
119	31.7	26.6	40.0



#64
Tetrachloroethene
Concen: 4.54 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX003975.D
Acq: 10 Aug 2018 14:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.5	98.0	147.0
129	97.7	64.3	96.5#
131	90.0	66.8	100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampled :

MW-102I

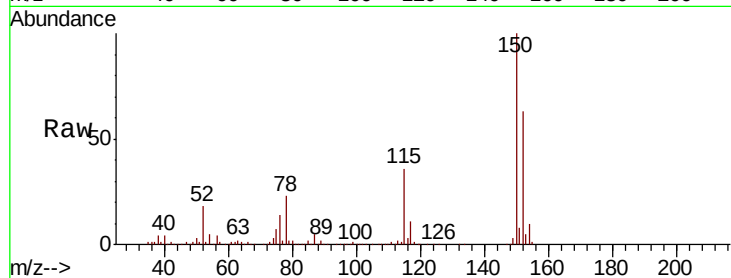
Tot Ion:152 Resp: 255033

Ion Ratio Lower Upper

152 100

115 55.0 39.1 117.3

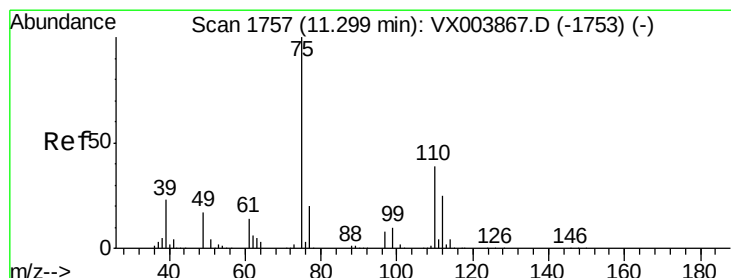
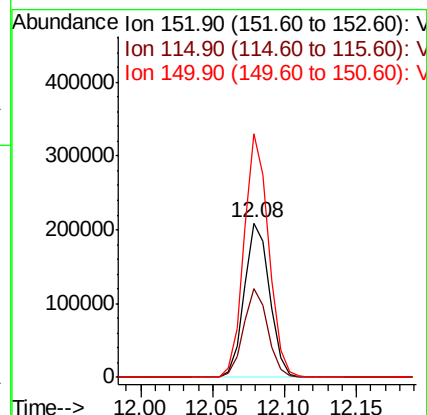
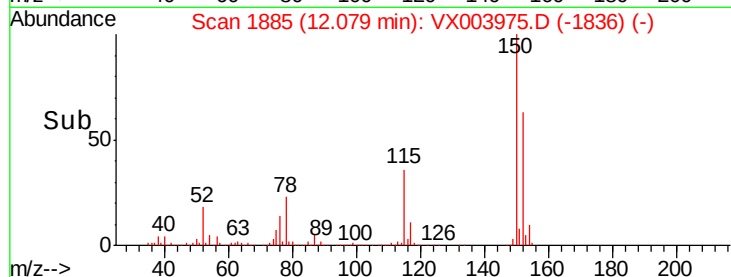
150 153.4 0.0 349.2



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: 20.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003975.D

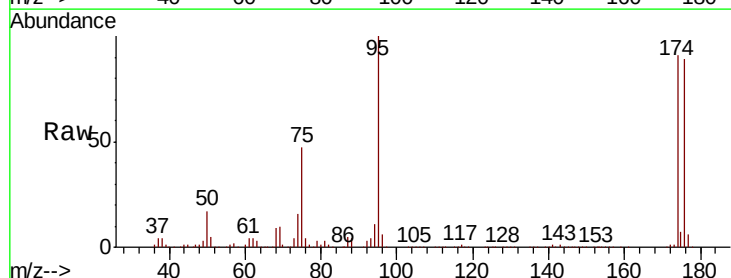
Acq: 10 Aug 2018 14:30

Tgt Ion: 75 Resp: 116849

Ion Ratio Lower Upper

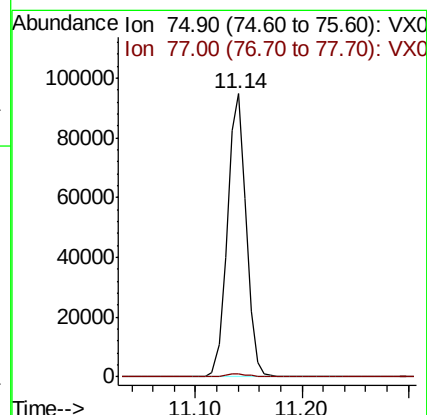
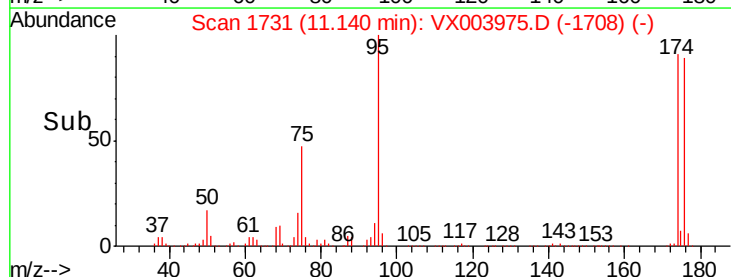
75 100

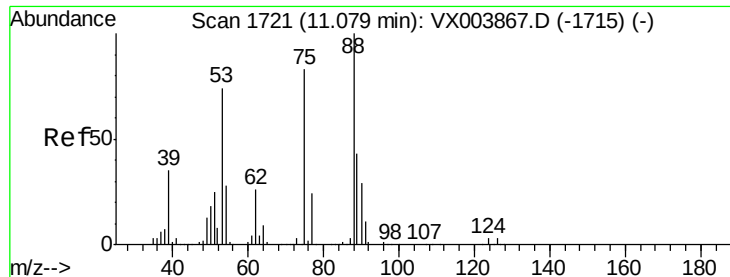
77 1.2 20.8 62.5#



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: 56.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

MW-102I

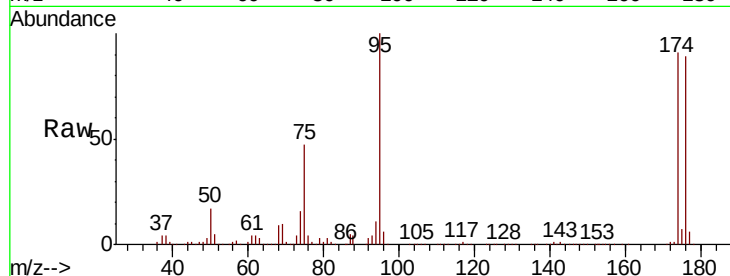
Tot Ion: 75 Resp: 116849

Ion Ratio Lower Upper

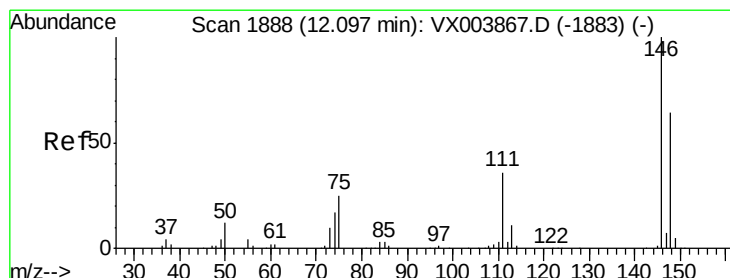
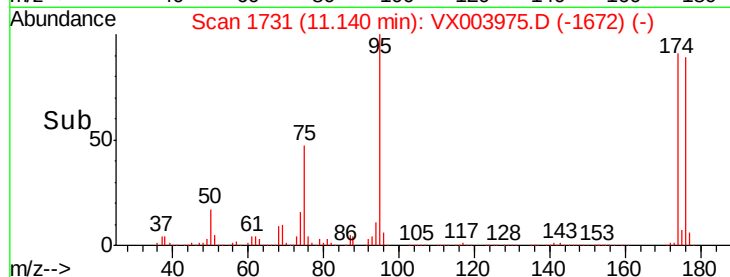
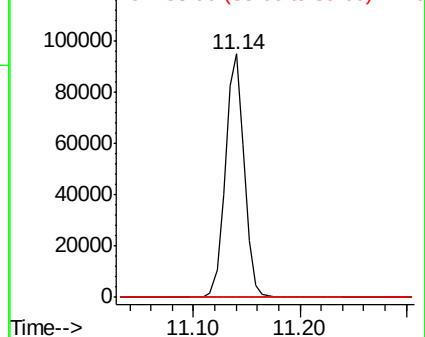
75 100

53 0.2 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



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.03 min Scan# 1877

Delta R.T. -0.07 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

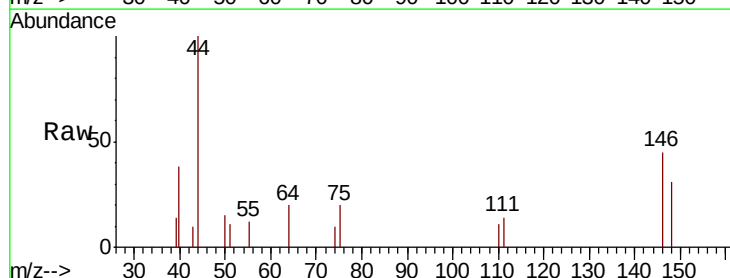
Tgt Ion: 146 Resp: 250

Ion Ratio Lower Upper

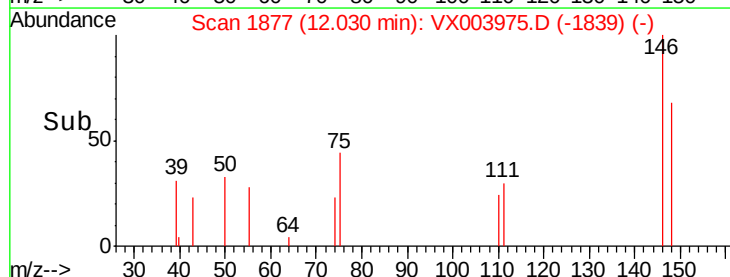
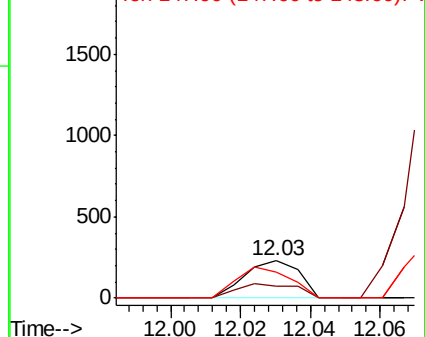
146 100

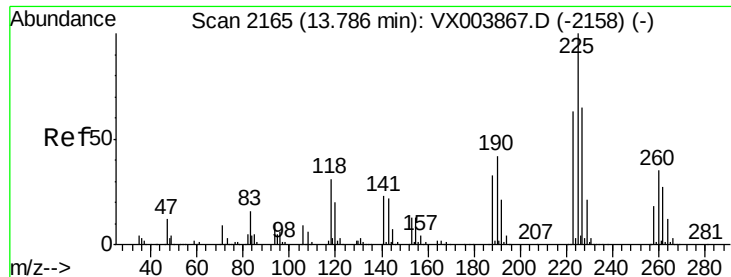
111 41.6 18.4 55.0

148 80.8 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: 0.48 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003975.D

Acq: 10 Aug 2018 14:30

Instrument :

MSVOA_X

ClientSampleId :

MW-102I

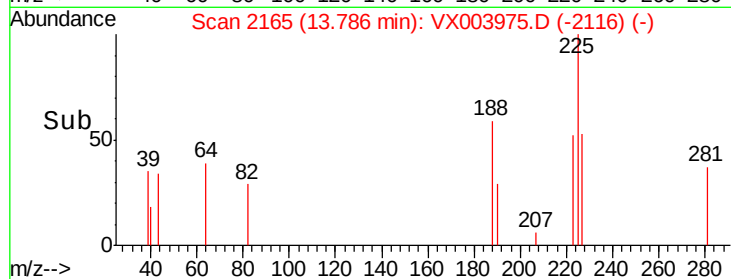
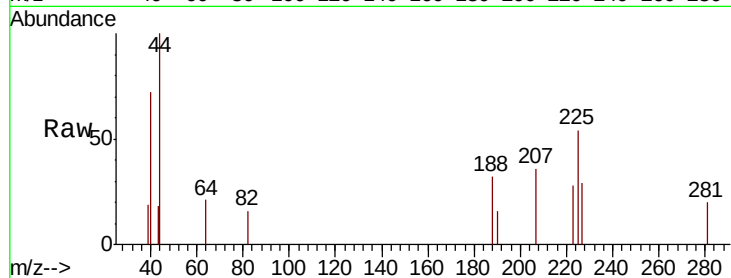
Tot Ion: 225 Resp: 142

Ion Ratio Lower Upper

225 100

223 77.5 31.4 94.0

227 59.2 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

