

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081018\
 Data File : VX003972.D
 Acq On : 10 Aug 2018 13:10
 Operator : JC/MD
 Sample : J4379-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-08092018

Quant Time: Aug 11 01:43:46 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	314093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	491090	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	455245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	244104	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	215980	51.87	ug/l	0.00
Spiked Amount						
			Recovery	=	103.74%	
35) Dibromofluoromethane	5.50	113	183889	49.43	ug/l	0.00
Spiked Amount						
			Recovery	=	98.86%	
50) Toluene-d8	8.72	98	687349	47.51	ug/l	0.00
Spiked Amount						
			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	11.14	95	235437	50.29	ug/l	0.00
Spiked Amount						
			Recovery	=	100.58%	

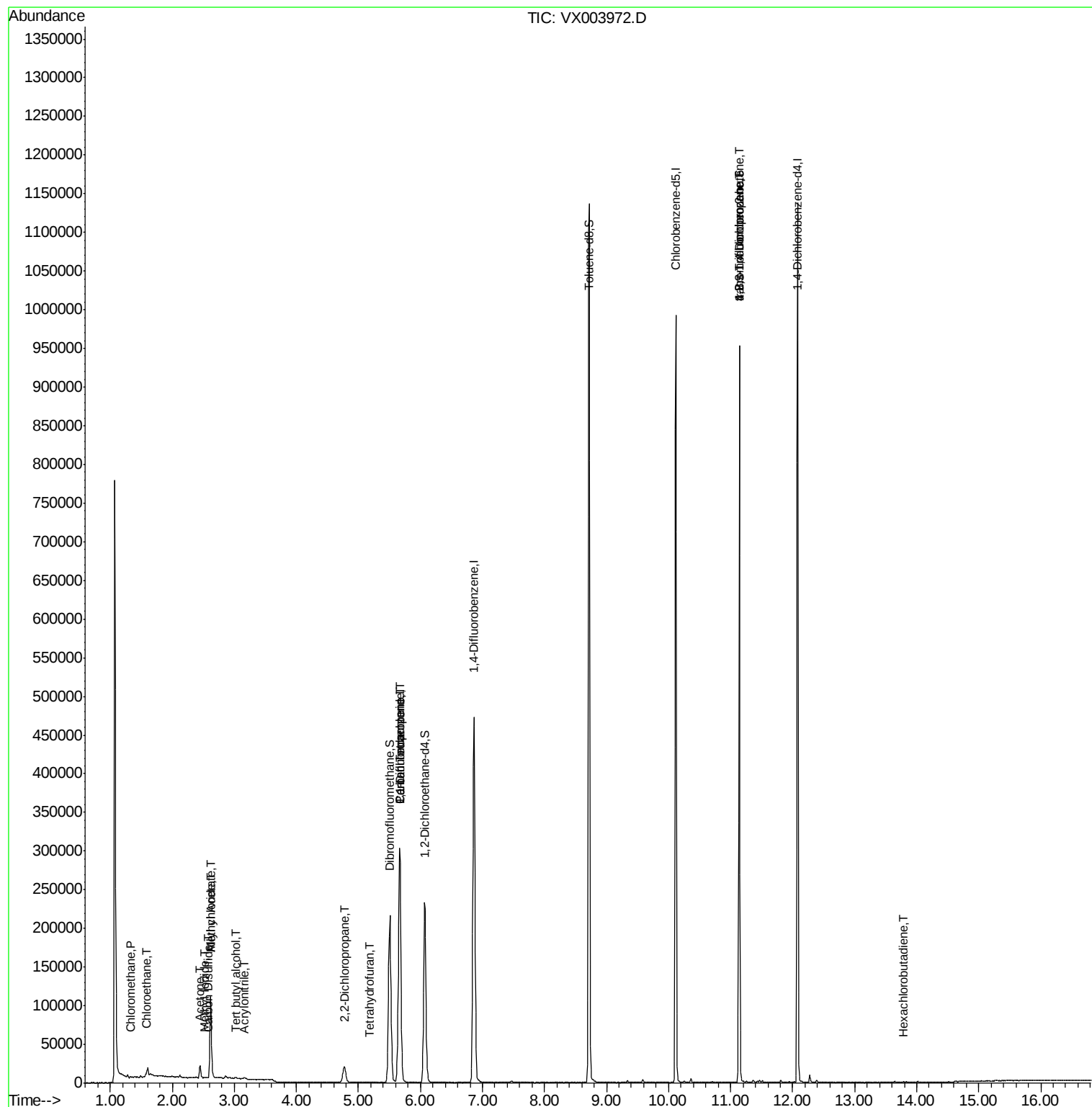
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	919	0.21	ug/l	99
5) Bromomethane	1.65	94	1290	Below Cal		87
6) Chloroethane	1.57	64	6982	2.53	ug/l #	49
10) Methyl Iodide	2.51	142	1117	0.25	ug/l	93
11) Tert butyl alcohol	3.02	59	1628	1.63	ug/l #	73
13) Acrolein	2.30	56	207	Below Cal	#	15
14) Allyl chloride	2.62	41	9883	1.52	ug/l #	59
15) Acrylonitrile	3.16	53	617	0.26	ug/l #	77
16) Acetone	2.45	43	15978	6.45	ug/l	96
17) Carbon Disulfide	2.57	76	1470	0.59	ug/l #	76
18) Methyl Acetate	2.62	43	27440	5.09	ug/l #	52
20) Methylene Chloride	2.86	84	1248	Below Cal	#	93
26) 2,2-Dichloropropane	4.77	77	1957	0.38	ug/l #	51
29) Tetrahydrofuran	5.18	42	730	0.38	ug/l #	62
36) 1,1-Dichloropropene	5.66	75	21167	3.85	ug/l #	48
38) Carbon Tetrachloride	5.66	117	27318	5.22	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	112760	20.91	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	112760	56.59	ug/l #	9
88) 1,4-Dichlorobenzene	12.03	146	585	Below Cal		96
94) Hexachlorobutadiene	13.79	225	286	0.53	ug/l	85

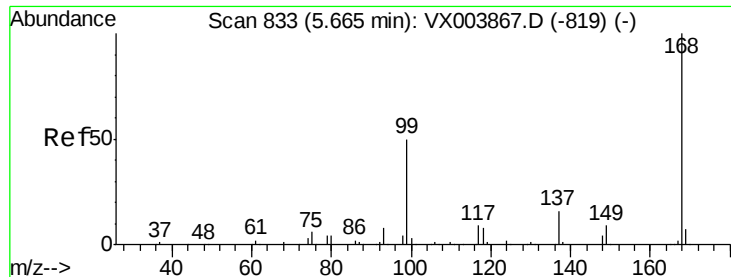
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

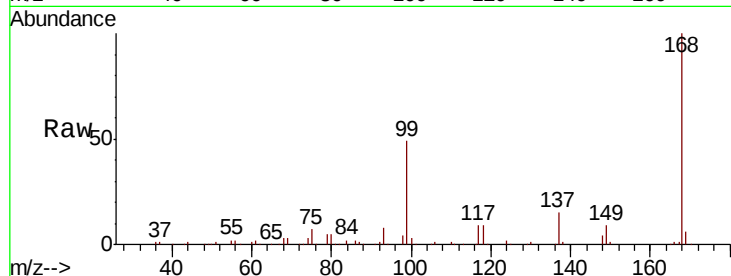
TB-08092018

Tot Ion:168 Resp: 314093

Ion Ratio Lower Upper

168 100

99 48.7 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

120000

100000

80000

60000

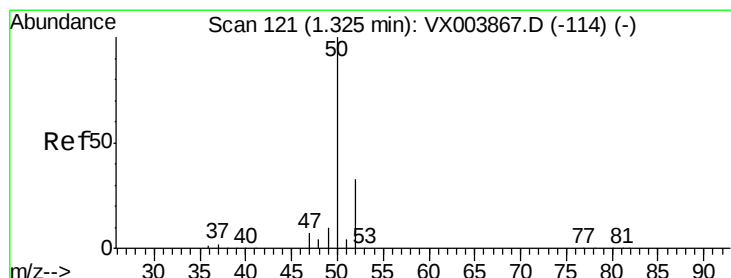
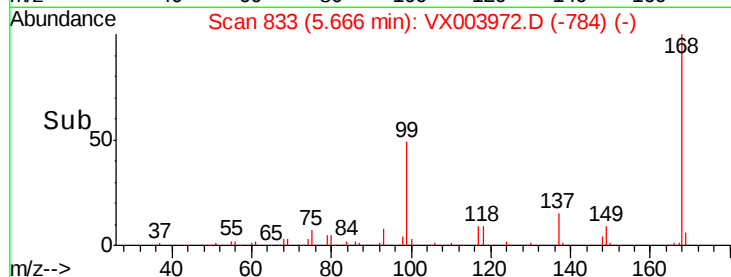
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003972.D

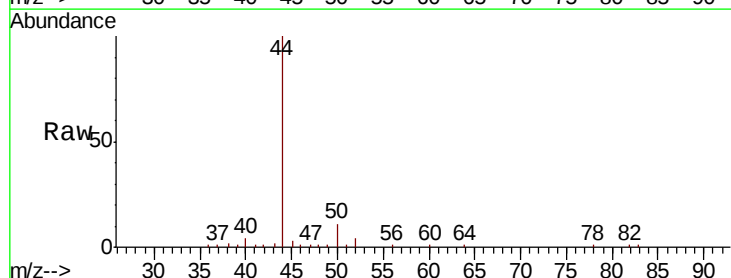
Acq: 10 Aug 2018 13:10

Tgt Ion: 50 Resp: 919

Ion Ratio Lower Upper

50 100

52 33.5 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

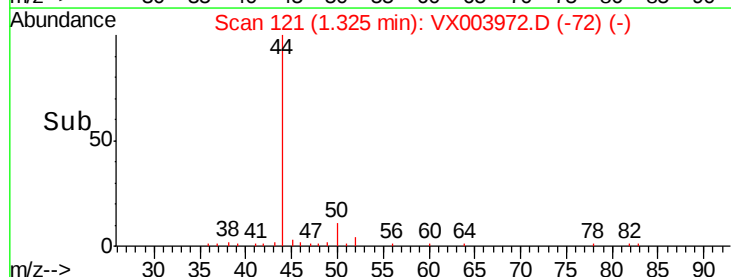
400

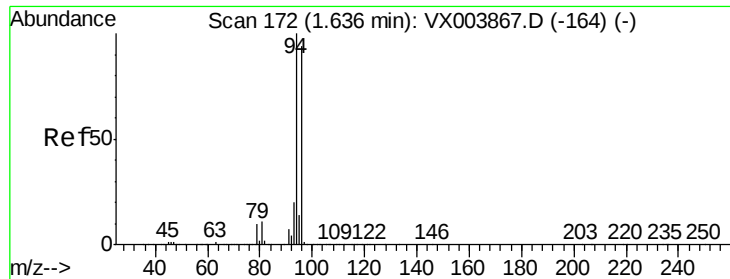
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

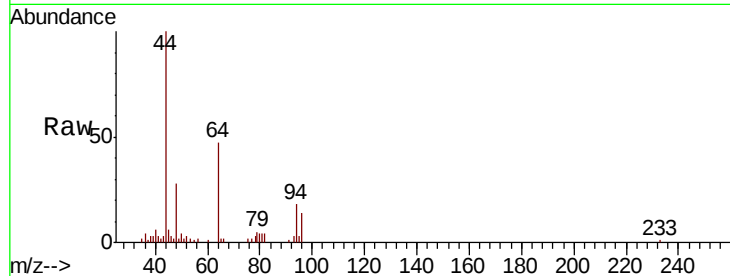
TB-08092018

Tot Ion: 94 Resp: 1290

Ion Ratio Lower Upper

94 100

96 81.4 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

600

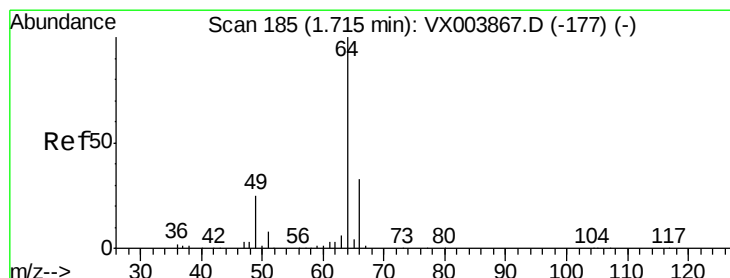
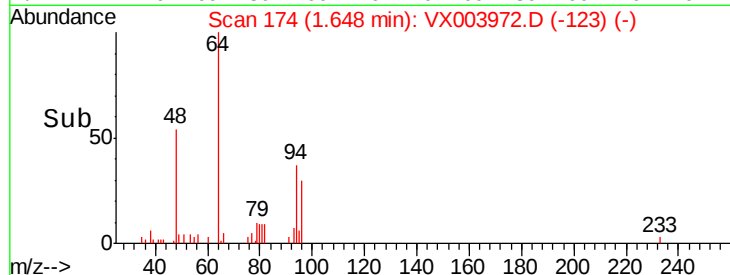
400

200

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: 2.53 ug/l

RT: 1.57 min Scan# 161

Delta R.T. -0.15 min

Lab File: VX003972.D

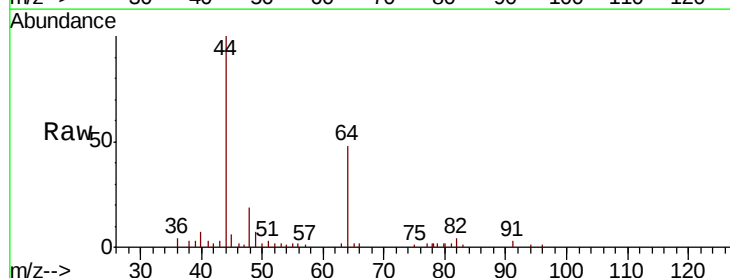
Acq: 10 Aug 2018 13:10

Tgt Ion: 64 Resp: 6982

Ion Ratio Lower Upper

64 100

66 4.2 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2500

2000

1500

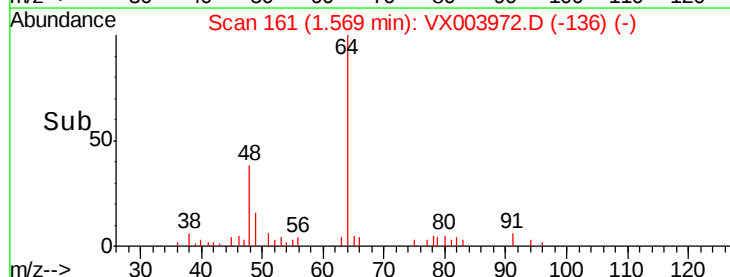
1000

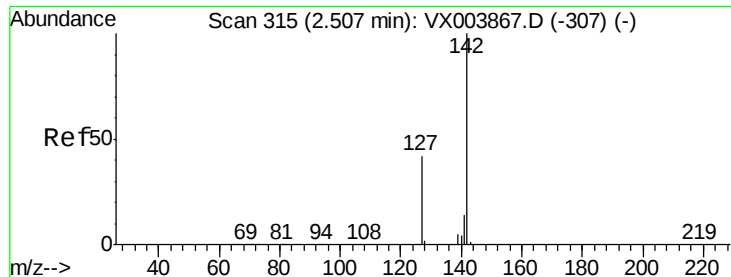
500

0

1.40 1.50 1.60

Time-->

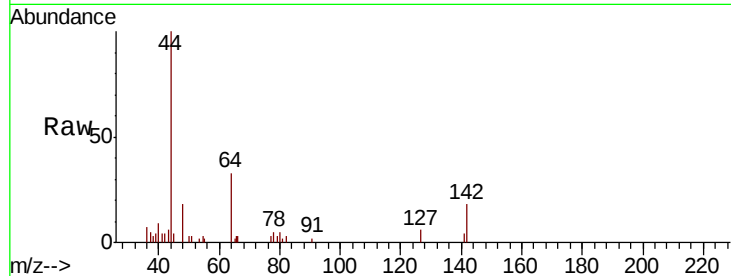




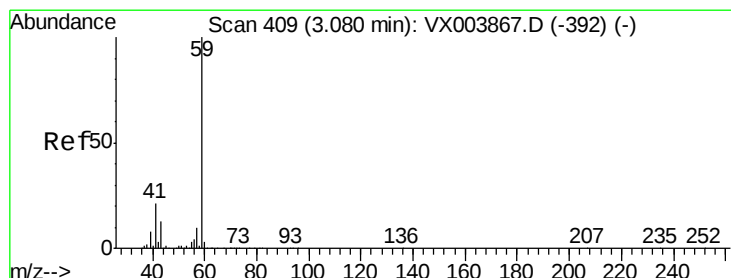
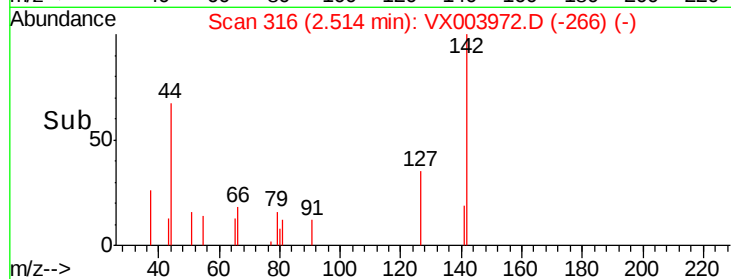
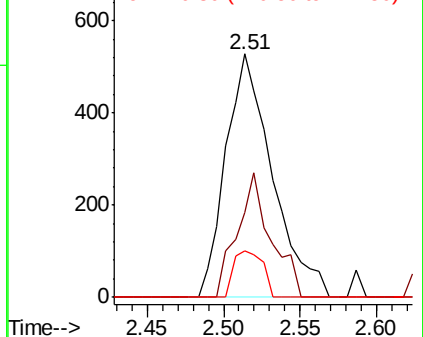
#10
Methyl Iodide
Concen: 0.25 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX003972.D
Acq: 10 Aug 2018 13:10

Instrument :
MSVOA_X
ClientSampled :
TB-08092018

Tot Ion	Ratio	Lower	Upper
142	100		
127	36.9	33.1	49.7
141	11.8	11.1	16.7

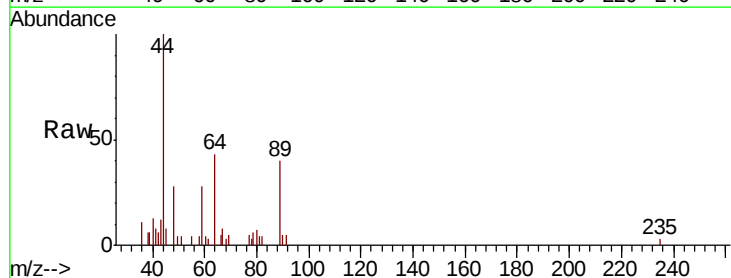


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

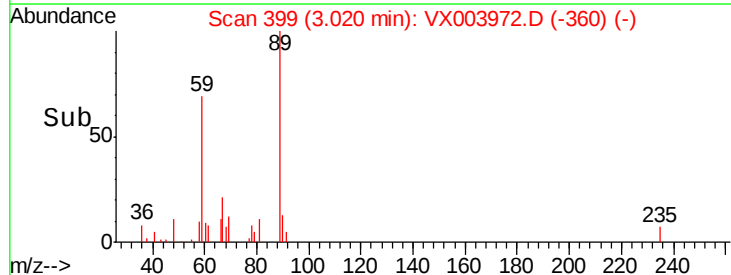
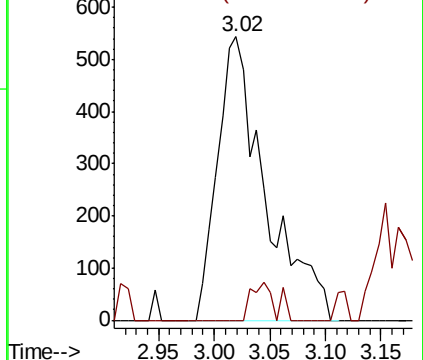


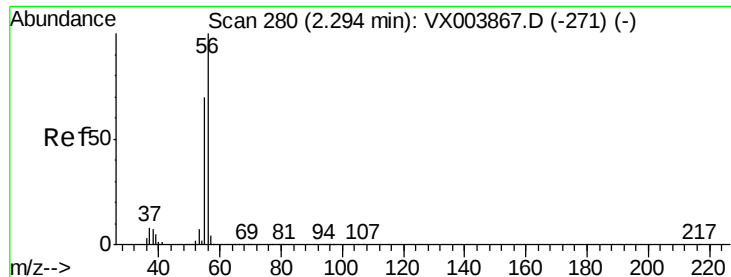
#11
Tert butyl alcohol
Concen: 1.63 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX003972.D
Acq: 10 Aug 2018 13:10

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampled :

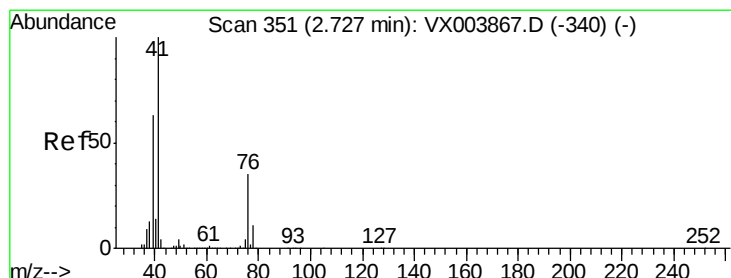
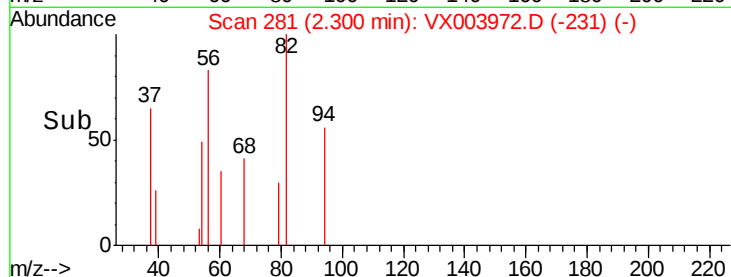
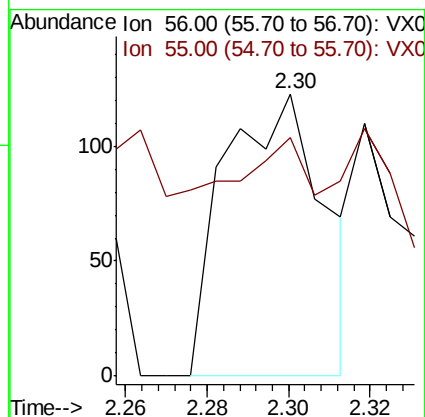
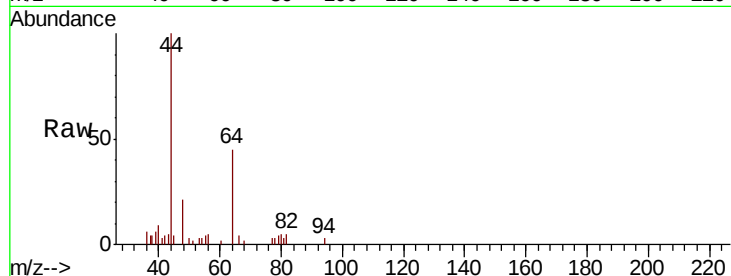
TB-08092018

Tot Ion: 56 Resp: 207

Ion Ratio Lower Upper

56 100

55 0.0 56.1 84.1#



#14

Allyl chloride

Concen: 1.52 ug/l

RT: 2.62 min Scan# 333

Delta R.T. -0.11 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

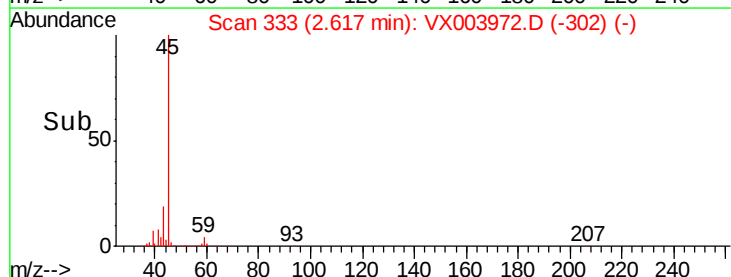
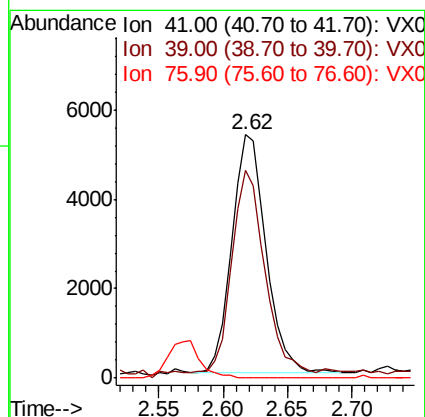
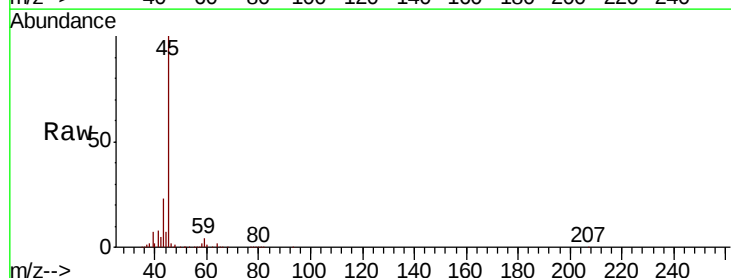
Tgt Ion: 41 Resp: 9883

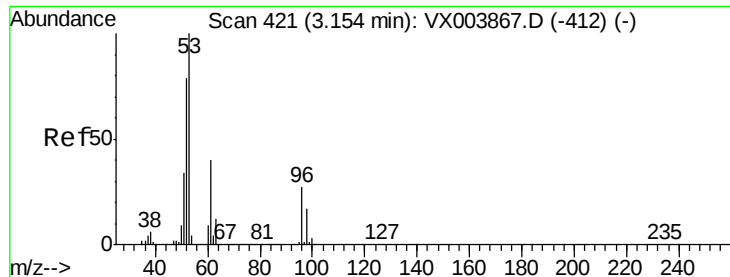
Ion Ratio Lower Upper

41 100

39 83.2 47.4 71.0#

76 0.0 26.0 39.0#





#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampled :

TB-08092018

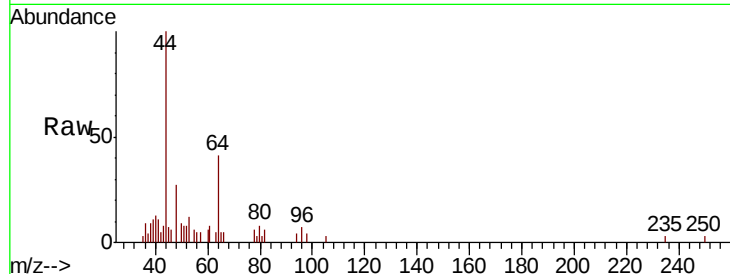
Tot Ion: 53 Resp: 617

Ion Ratio Lower Upper

53 100

52 85.3 65.3 97.9

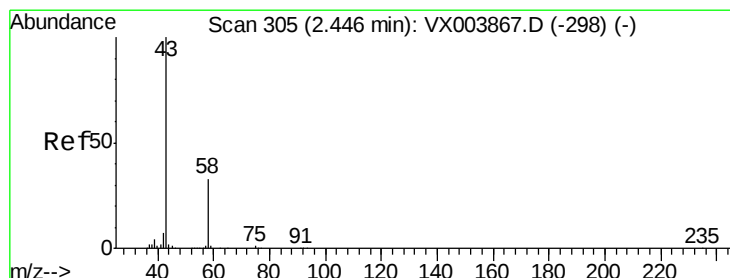
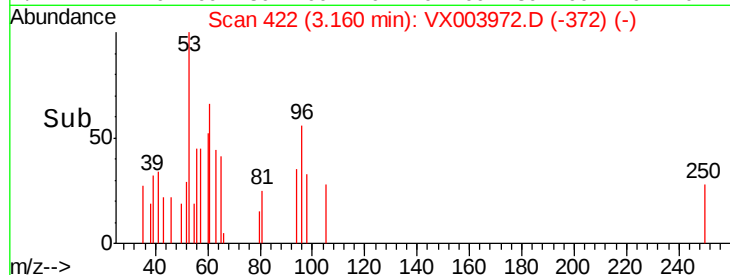
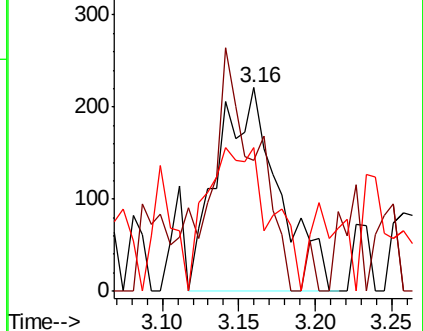
51 73.1 27.9 41.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 6.45 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003972.D

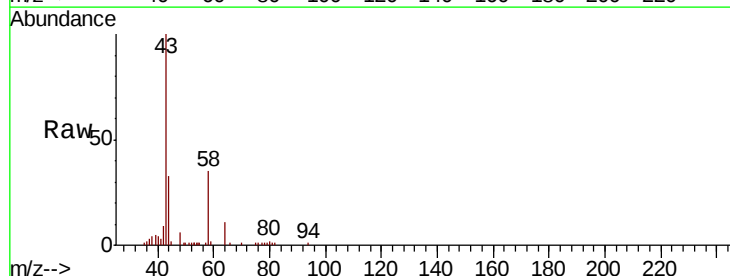
Acq: 10 Aug 2018 13:10

Tgt Ion: 43 Resp: 15978

Ion Ratio Lower Upper

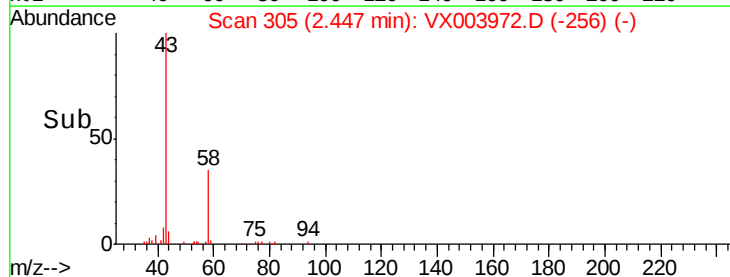
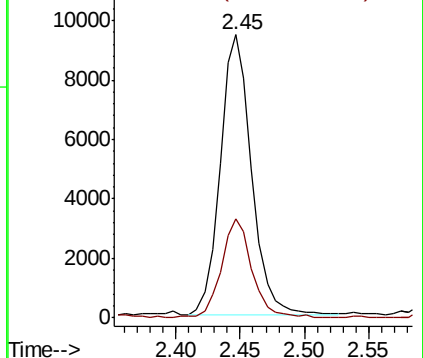
43 100

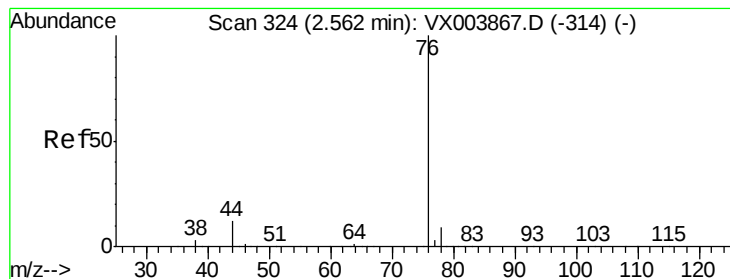
58 35.2 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.59 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

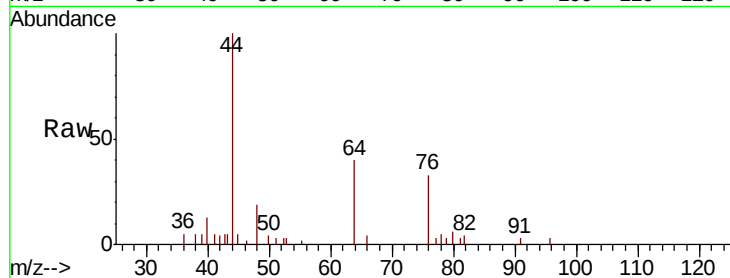
TB-08092018

Tot Ion: 76 Resp: 1470

Ion Ratio Lower Upper

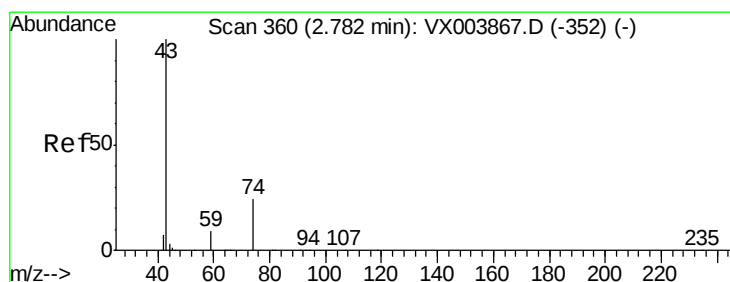
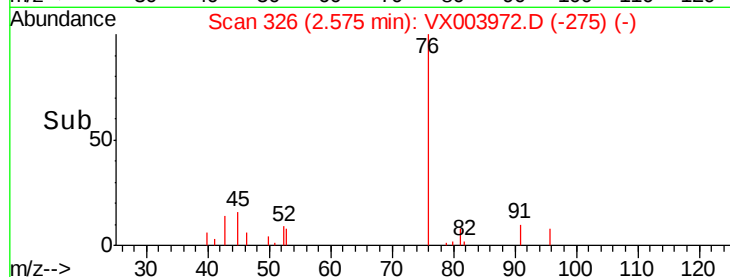
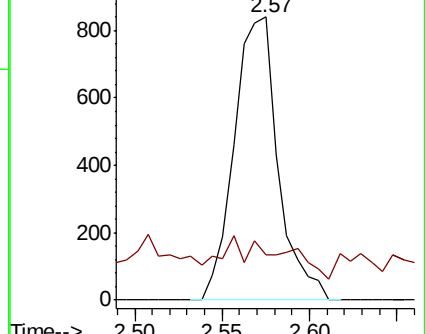
76 100

78 0.5 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 5.09 ug/l

RT: 2.62 min Scan# 333

Delta R.T. -0.16 min

Lab File: VX003972.D

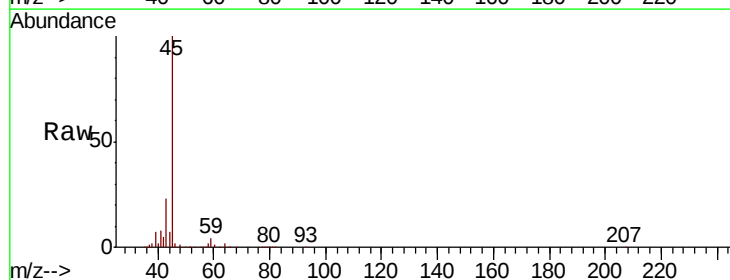
Acq: 10 Aug 2018 13:10

Tgt Ion: 43 Resp: 27440

Ion Ratio Lower Upper

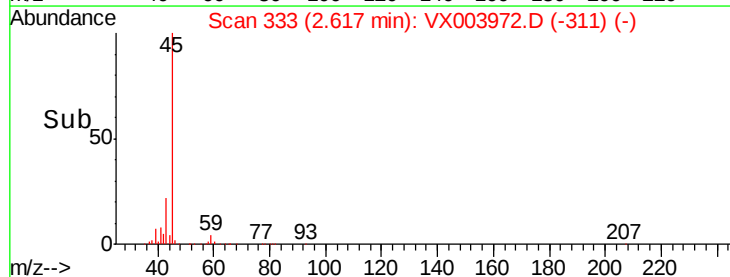
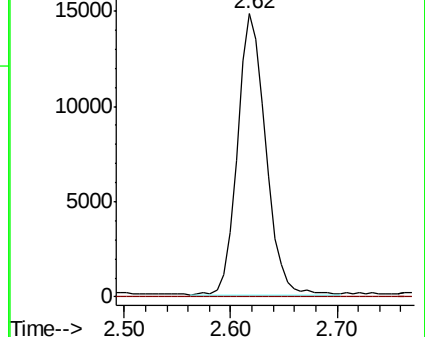
43 100

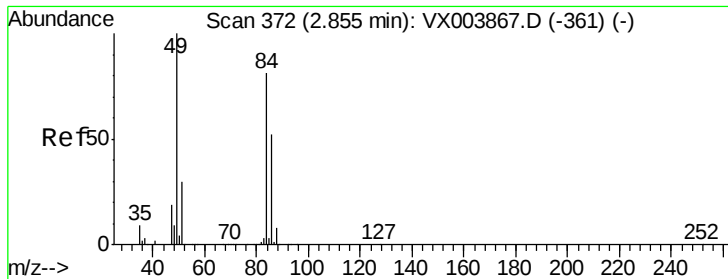
74 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampled :

TB-08092018

Tot Ion: 84 Resp: 1248

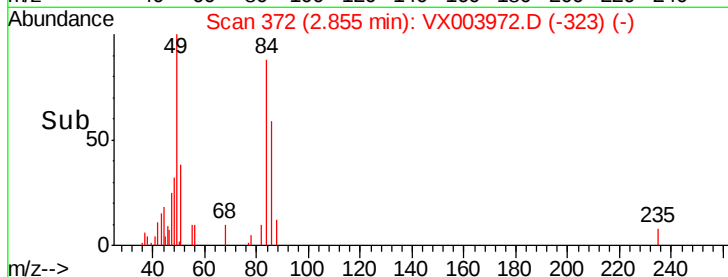
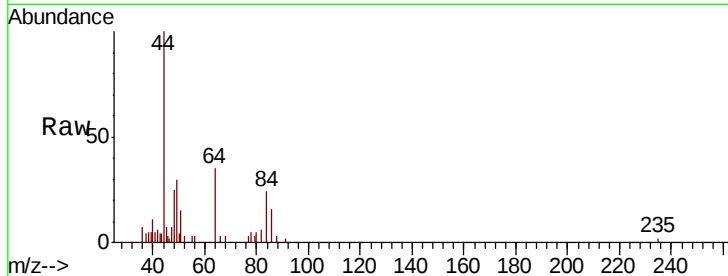
Ion Ratio Lower Upper

84 100

49 126.8 98.9 148.3

51 51.2 29.9 44.9#

86 67.3 51.0 76.6

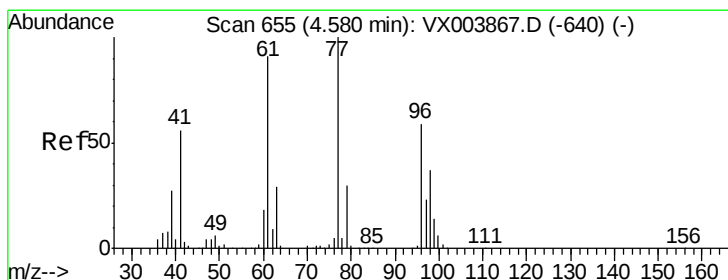
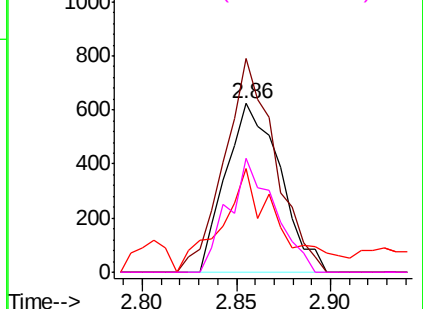


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#26

2,2-Dichloropropane

Concen: 0.38 ug/l

RT: 4.77 min Scan# 686

Delta R.T. 0.19 min

Lab File: VX003972.D

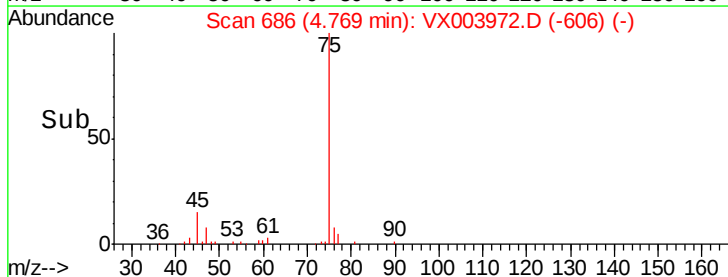
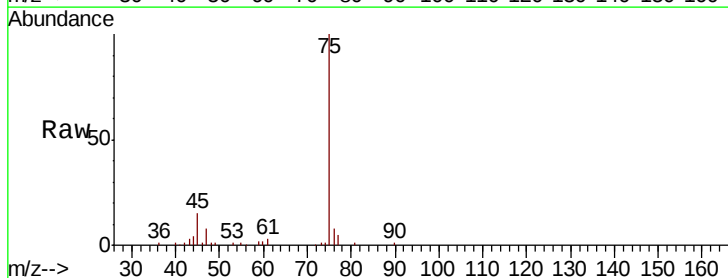
Acq: 10 Aug 2018 13:10

Tgt Ion: 77 Resp: 1957

Ion Ratio Lower Upper

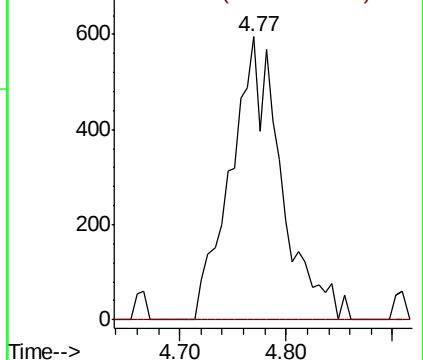
77 100

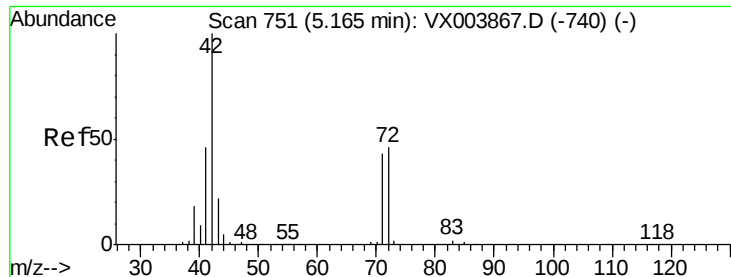
97 0.0 11.9 35.9#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

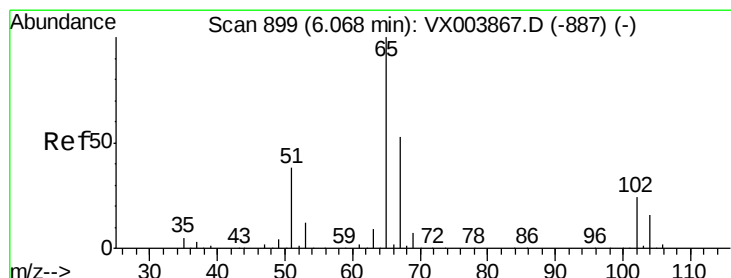
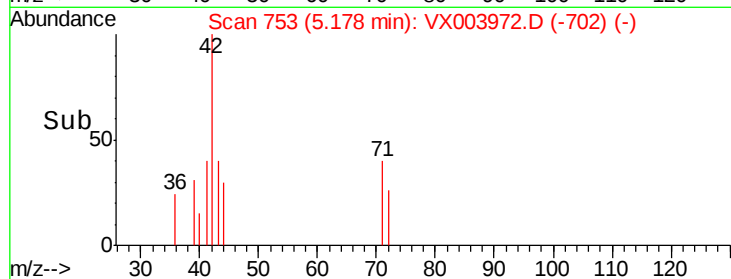
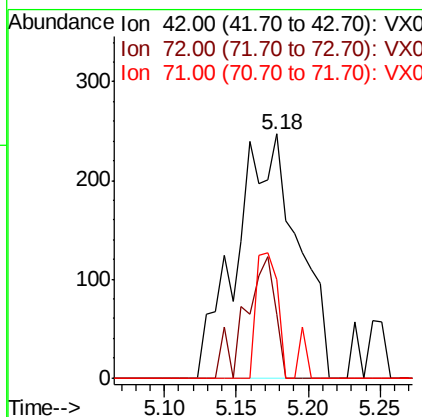
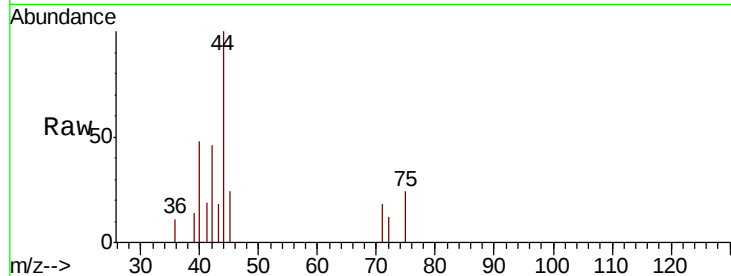




#29
Tetrahydrofuran
Concen: 0.38 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX003972.D
Acq: 10 Aug 2018 13:10

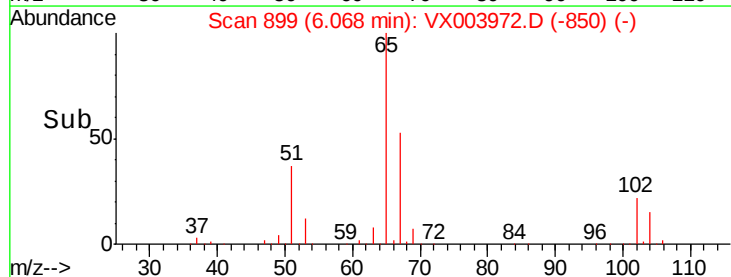
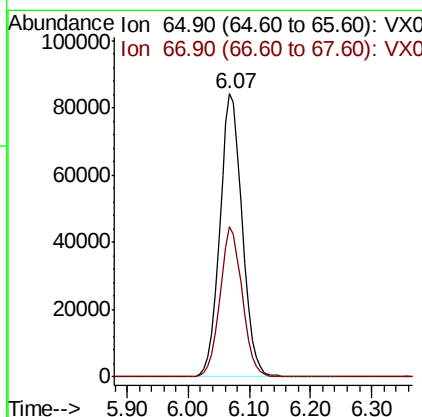
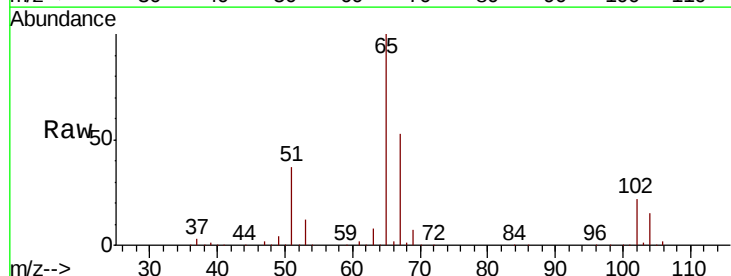
Instrument :
MSVOA_X
ClientSampleId :
TB-08092018

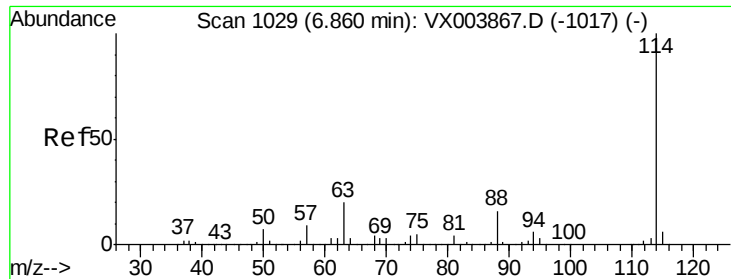
Tot Ion: 42 Resp: 730
Ion Ratio Lower Upper
42 100
72 24.0 37.7 56.5#
71 17.5 35.0 52.6#



#33
1,2-Dichloroethane-d4
Concen: 51.87 ug/l
RT: 6.07 min Scan# 899
Delta R.T. 0.00 min
Lab File: VX003972.D
Acq: 10 Aug 2018 13:10

Tgt Ion: 65 Resp: 215980
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.8

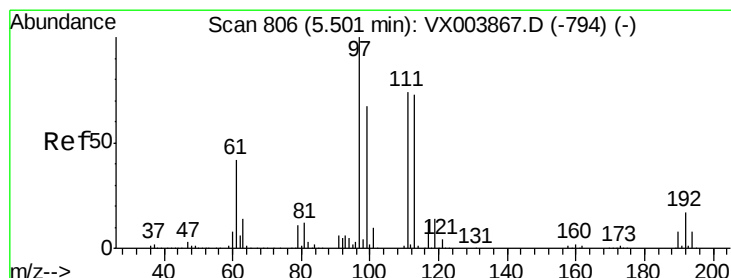
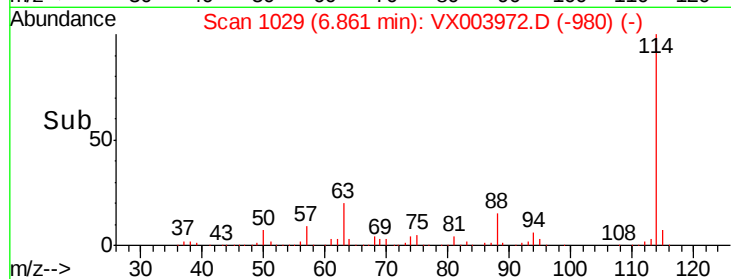
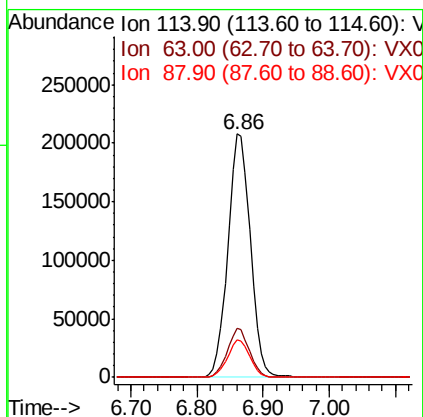
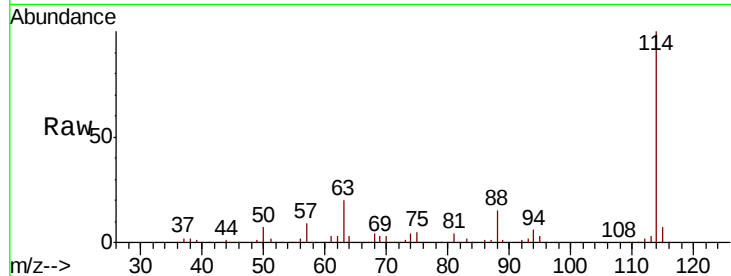




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: VX003972.D
 Acq: 10 Aug 2018 13:10

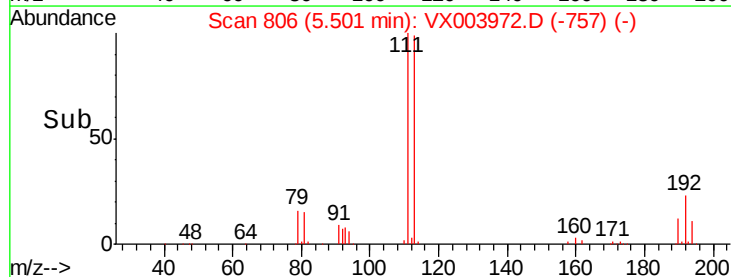
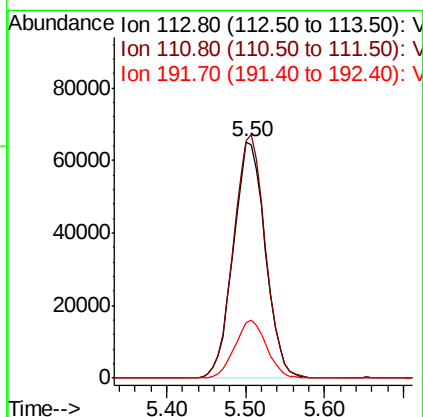
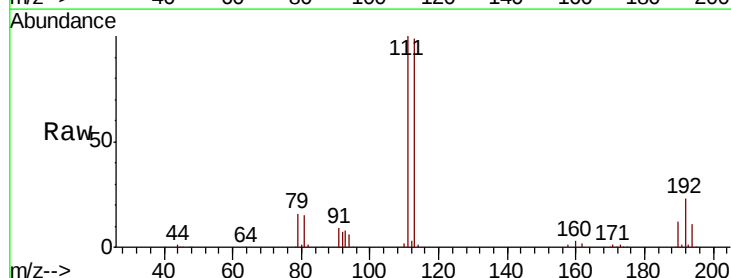
Instrument :
 MSVOA_X
 ClientSampleID :
 TB-08092018

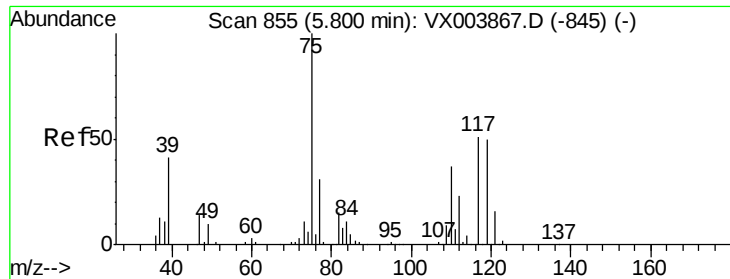
Tot Ion:114 Resp: 491090
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.0
 88 15.5 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 49.43 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX003972.D
 Acq: 10 Aug 2018 13:10

Tgt Ion:113 Resp: 183889
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.0 123.0
 192 24.2 19.0 28.4





#36

1,1-Dichloropropene

Concen: 3.85 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

TB-08092018

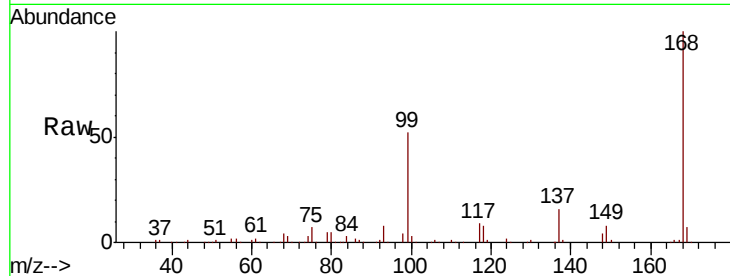
Tot Ion: 75 Resp: 21167

Ion Ratio Lower Upper

75 100

110 8.5 18.2 54.6#

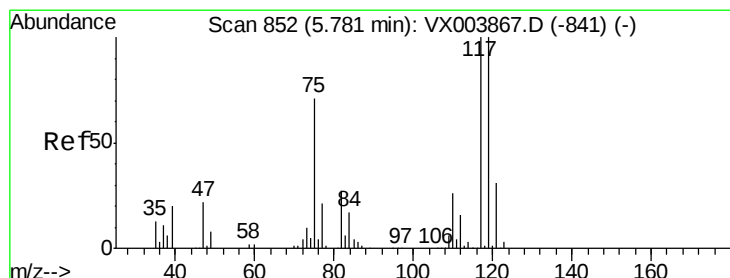
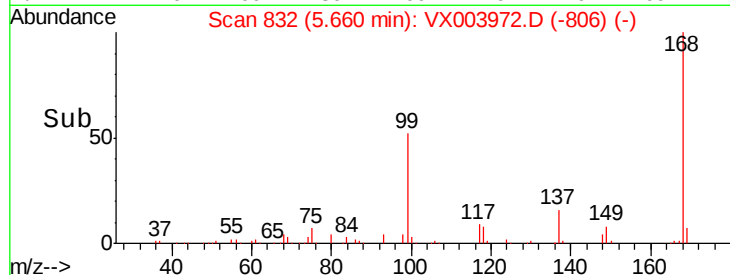
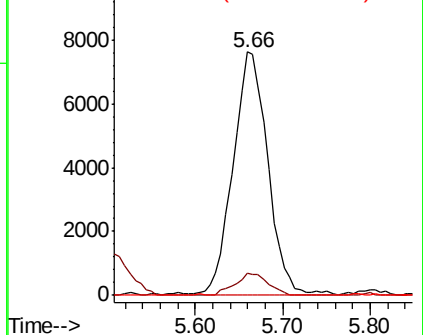
77 0.0 25.0 37.4#



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: 5.22 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

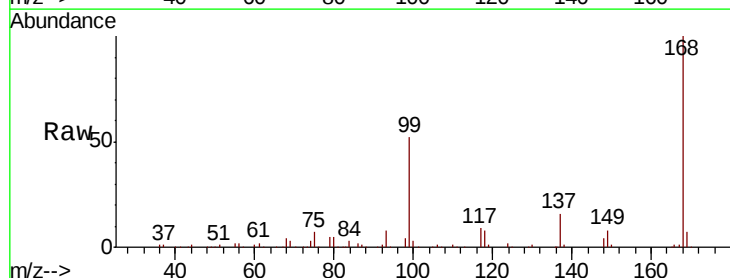
Tgt Ion: 117 Resp: 27318

Ion Ratio Lower Upper

117 100

119 5.5 79.5 119.3#

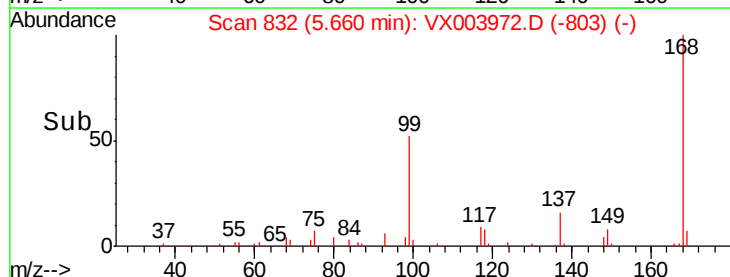
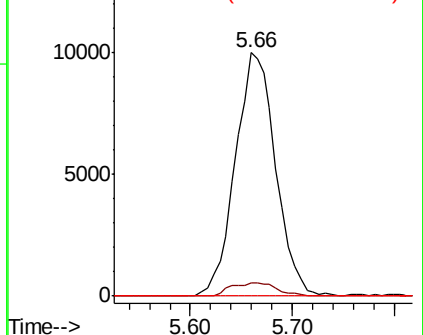
121 0.0 25.0 37.4#

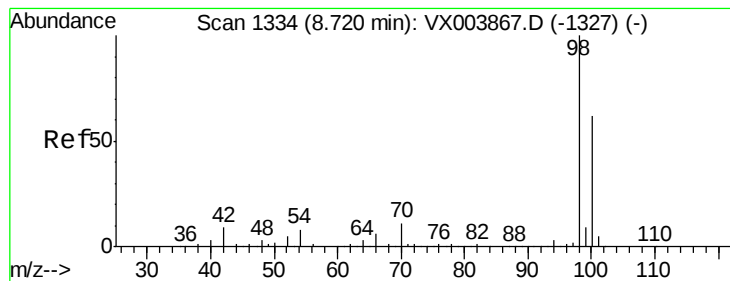


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 47.51 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

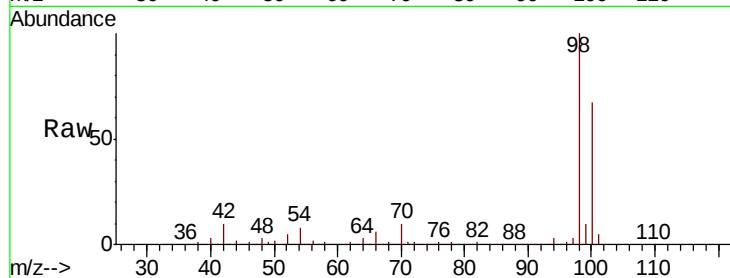
TB-08092018

Tot Ion: 98 Resp: 687349

Ion Ratio Lower Upper

98 100

100 65.8 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

400000

300000

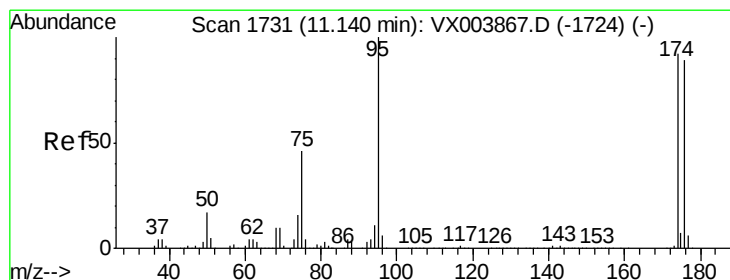
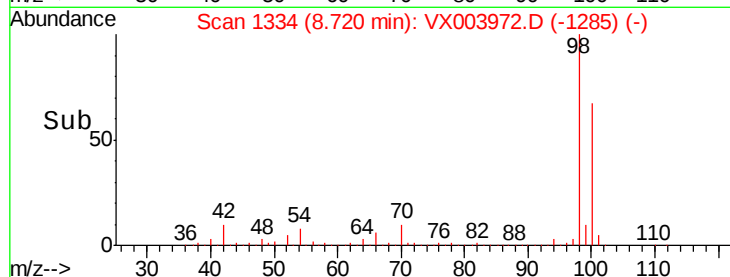
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 50.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

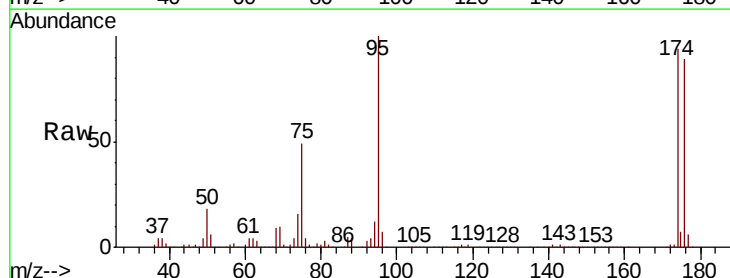
Tgt Ion: 95 Resp: 235437

Ion Ratio Lower Upper

95 100

174 92.1 0.0 182.8

176 88.5 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

11.14

250000

200000

150000

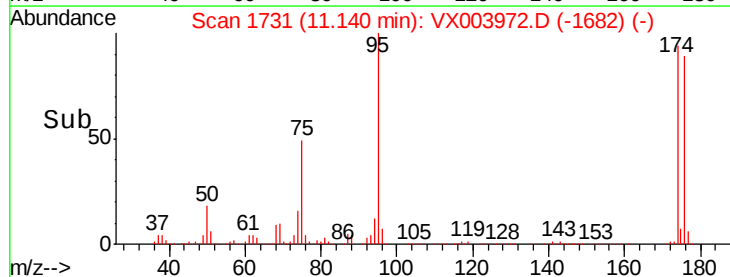
100000

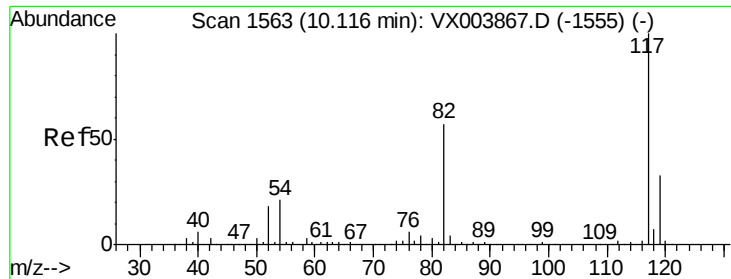
50000

0

Time-->

11.10 11.20

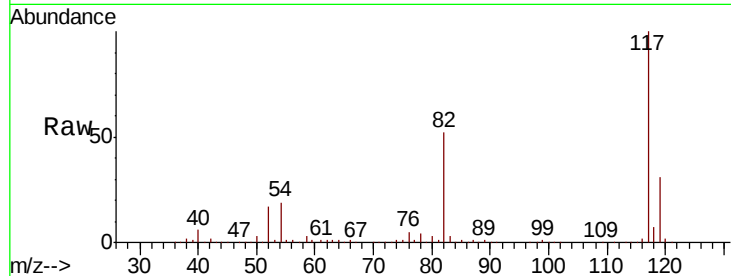




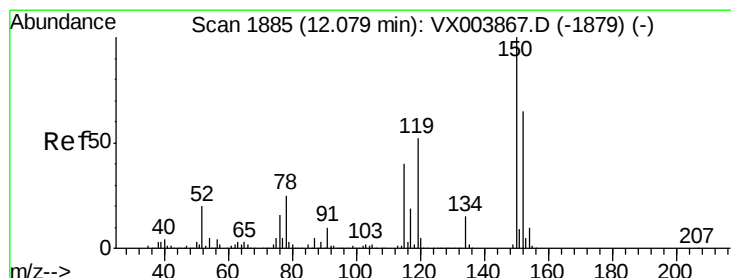
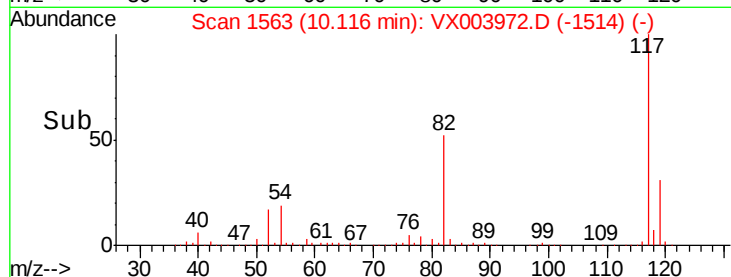
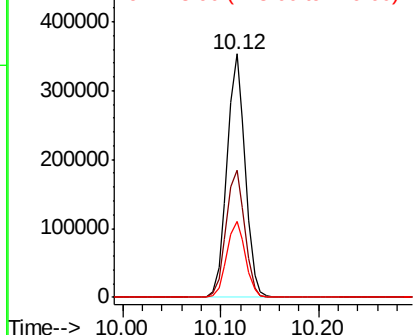
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003972.D
Acq: 10 Aug 2018 13:10

Instrument :
MSVOA_X
ClientSampled :
TB-08092018

Tot Ion:117 Resp: 455245
Ion Ratio Lower Upper
117 100
82 52.0 45.4 68.0
119 31.4 26.6 40.0

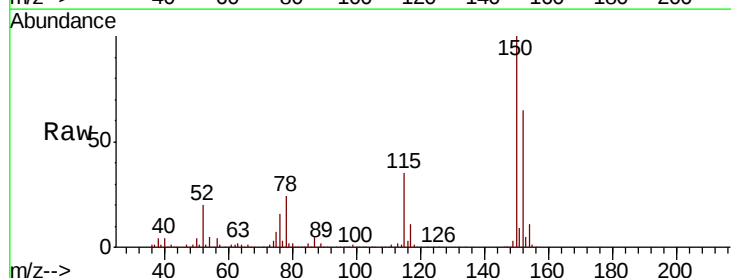


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

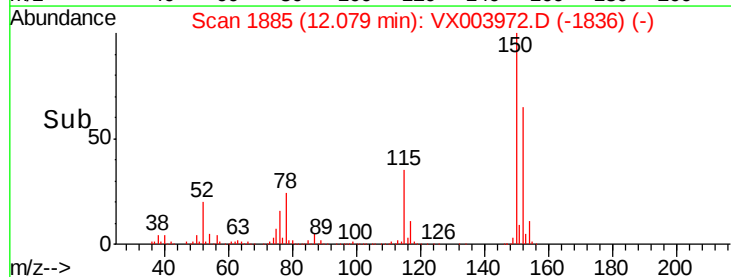
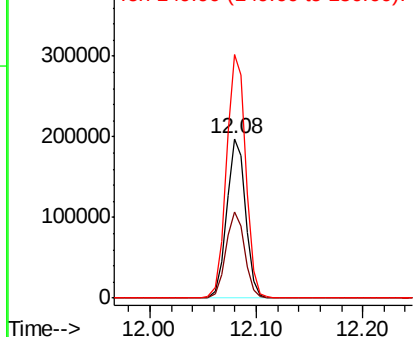


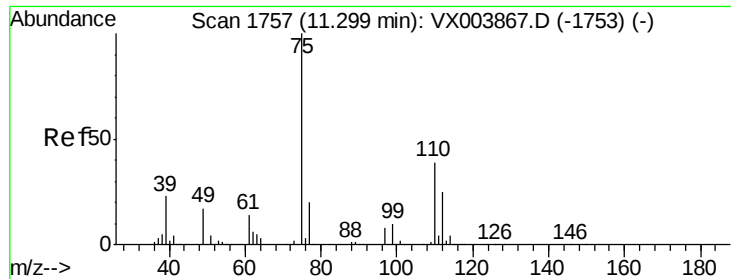
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003972.D
Acq: 10 Aug 2018 13:10

Tgt Ion:152 Resp: 244104
Ion Ratio Lower Upper
152 100
115 54.4 39.1 117.3
150 156.5 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

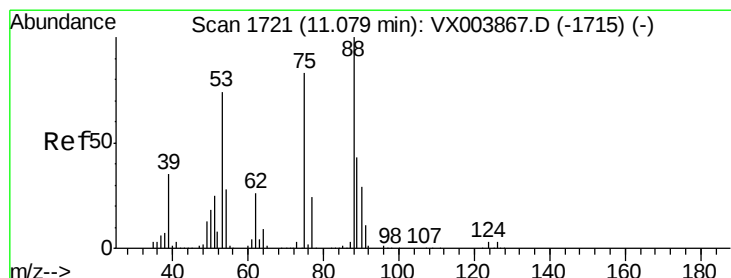
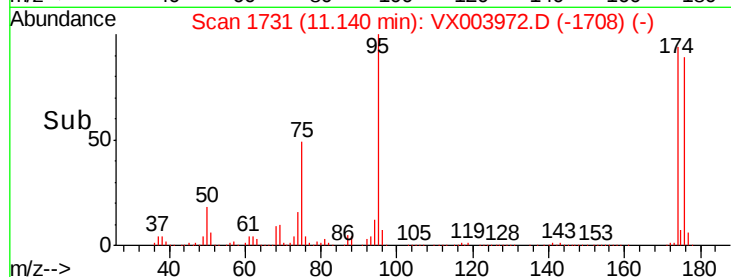
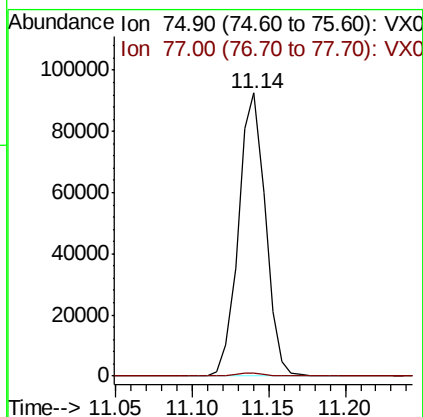
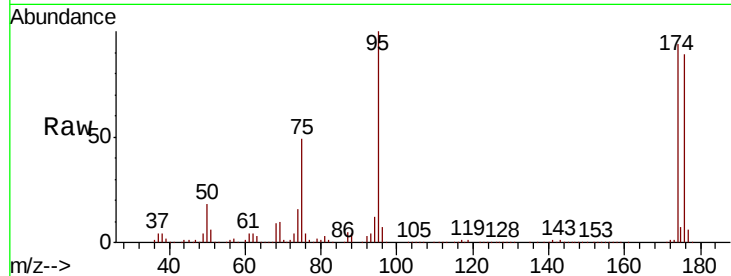




#76
 1,2,3-Trichloropropane
 Concen: 20.91 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003972.D
 Acq: 10 Aug 2018 13:10

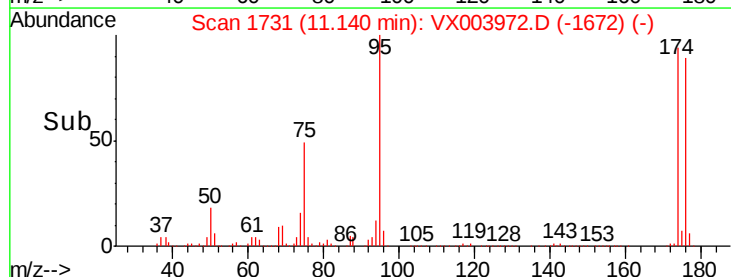
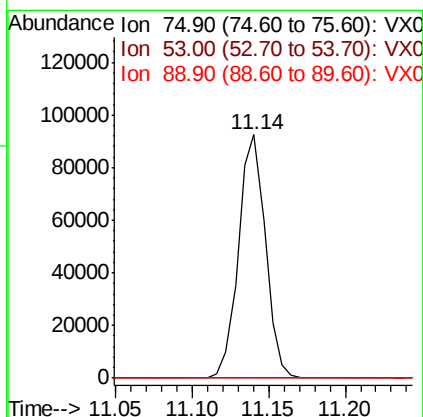
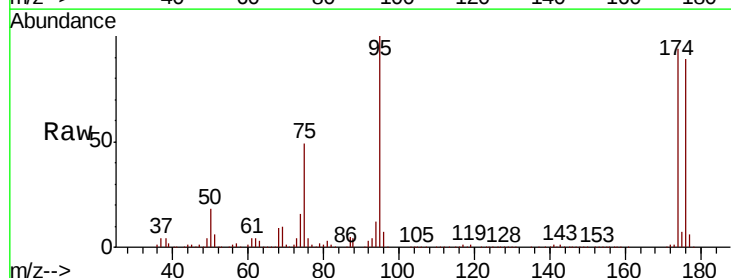
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-08092018

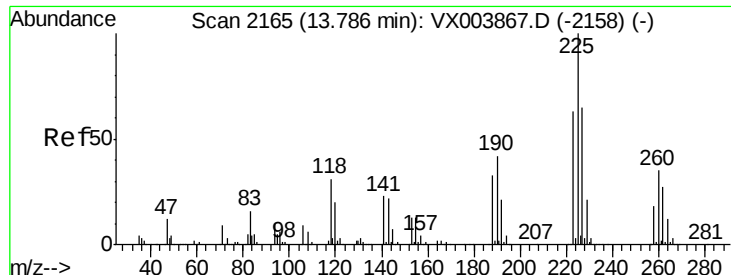
Tot Ion: 75 Resp: 112760
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.59 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003972.D
 Acq: 10 Aug 2018 13:10

Tgt Ion: 75 Resp: 112760
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.3 120.5#
 89 0.0 37.8 56.8#





#94

Hexachlorobutadiene

Concen: 0.53 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003972.D

Acq: 10 Aug 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

TB-08092018

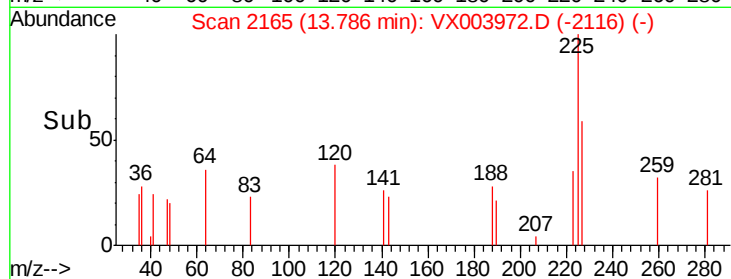
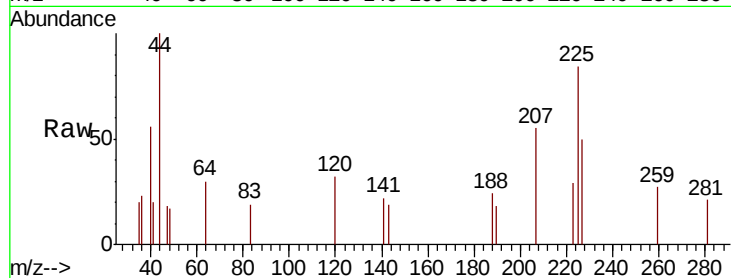
Tot Ion:225 Resp: 286

Ion Ratio Lower Upper

225 100

223 44.1 31.4 94.0

227 68.5 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

