

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041819\
 Data File : VX009038.D
 Acq On : 18 Apr 2019 13:00
 Operator : JC/SP
 Sample : K2448-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006MW015-190415

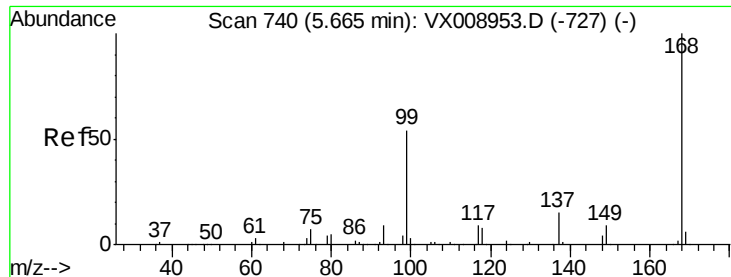
Quant Time: Apr 19 01:36:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247361	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	398629	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	345642	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146055	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	164019	47.05	ug/l	0.00
Spiked Amount			Recovery	=	94.10%	
35) Dibromofluoromethane	5.50	113	119378	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
50) Toluene-d8	8.71	98	495550	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
62) 4-Bromofluorobenzene	11.13	95	165987	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	724	0.207	ug/l	96
4) Vinyl Chloride	1.40	62	1726	0.507	ug/l	94
5) Bromomethane	1.62	94	355	4.002	ug/l #	3
10) Methyl Iodide	2.52	142	286	4.508	ug/l #	42
11) Tert butyl alcohol	3.02	59	300	0.388	ug/l #	80
13) Acrolein	2.29	56	173	0.259	ug/l #	80
16) Acetone	2.44	43	3276	1.812	ug/l #	83
17) Carbon Disulfide	2.57	76	724	1.343	ug/l #	84
21) trans-1,2-Dichloroethene	3.17	96	1551	0.548	ug/l #	77
27) cis-1,2-Dichloroethene	4.60	96	91643	28.528	ug/l	89
28) Bromochloromethane	5.00	49	40	Below Cal	#	21
31) Cyclohexane	5.65	56	5634	1.015	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19658	4.768	ug/l #	50
38) Carbon Tetrachloride	5.66	117	23862	6.827	ug/l #	17
44) Trichloroethene	7.21	130	6926	2.324	ug/l	100
60) Dibromochloromethane	9.34	129	6433	2.323	ug/l #	10
64) Tetrachloroethene	9.34	164	6790	2.586	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	84553	23.708	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	84553	60.866	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009038.D

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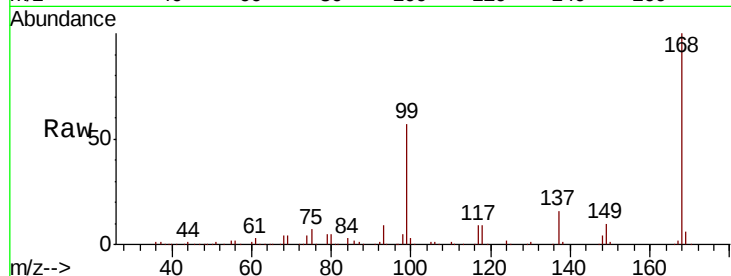
ST006MW015-190415

Tot Ion:168 Resp: 247361

Ion Ratio Lower Upper

168 100

99 57.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

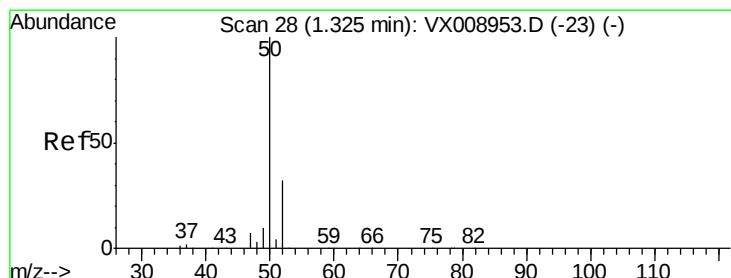
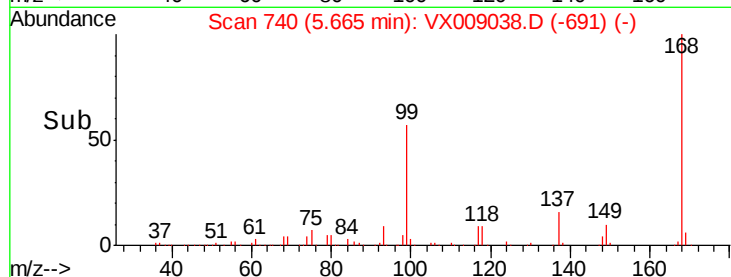
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009038.D

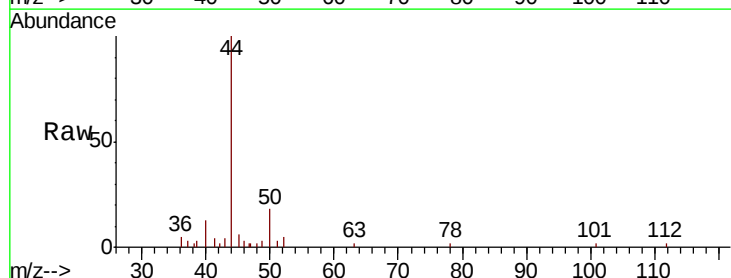
Acq: 18 Apr 2019 13:00

Tgt Ion: 50 Resp: 724

Ion Ratio Lower Upper

50 100

52 29.6 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

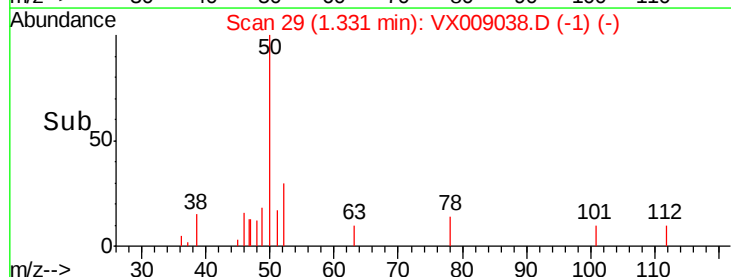
300

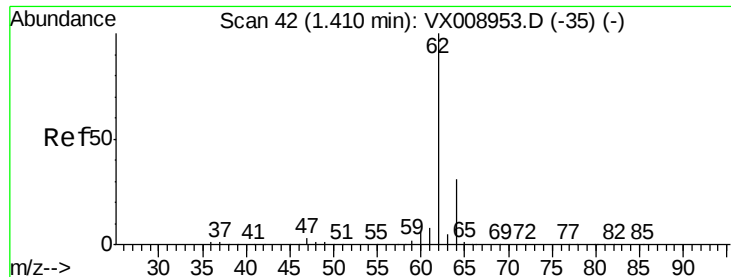
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.507 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

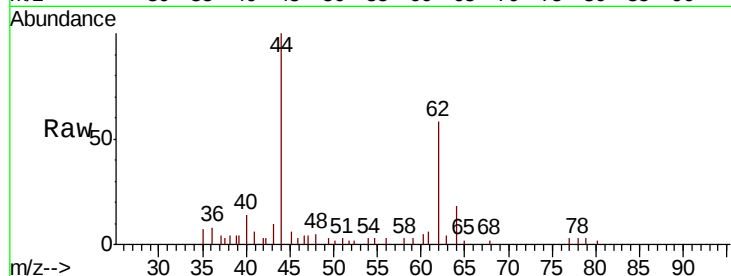
ST006MW015-190415

Tot Ion: 62 Resp: 1726

Ion Ratio Lower Upper

62 100

64 28.0 25.0 37.4

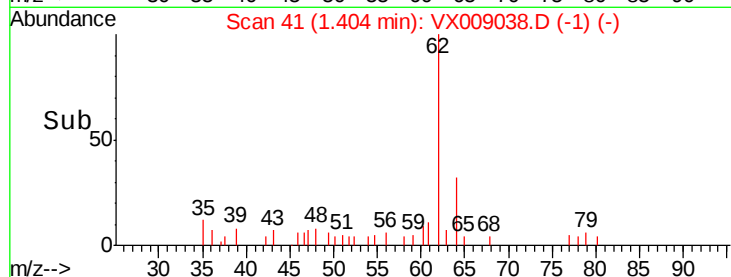


Abundance Ion 61.90 (61.60 to 62.60): VX0

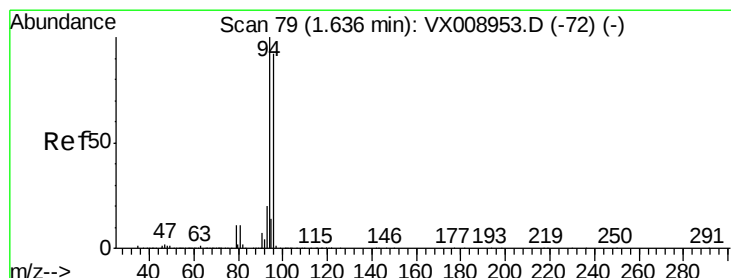
Ion 63.90 (63.60 to 64.60): VX0

1.40

1.45



Time-->



#5

Bromomethane

Concen: 4.002 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX009038.D

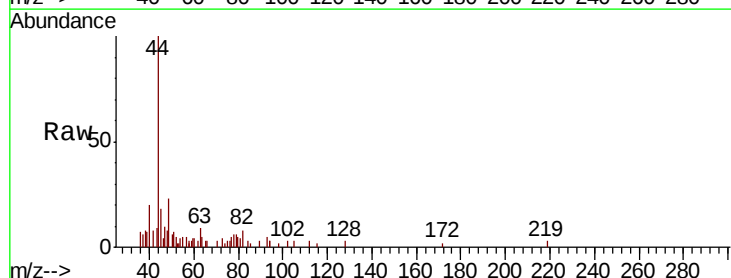
Acq: 18 Apr 2019 13:00

Tgt Ion: 94 Resp: 355

Ion Ratio Lower Upper

94 100

96 0.0 73.9 110.9#

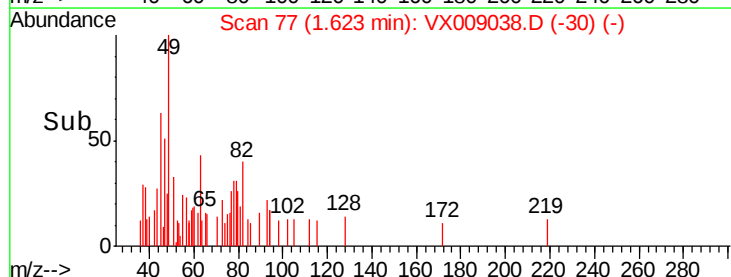


Abundance Ion 93.90 (93.60 to 94.60): VX0

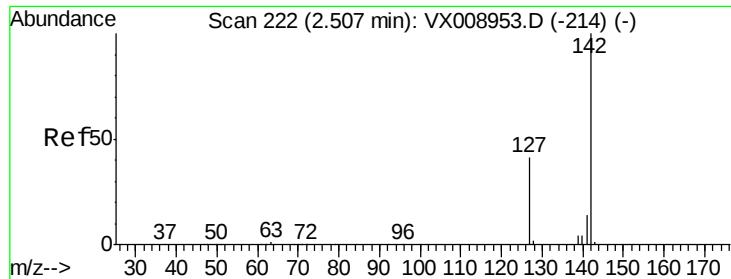
Ion 95.90 (95.60 to 96.60): VX0

1.62

1.65



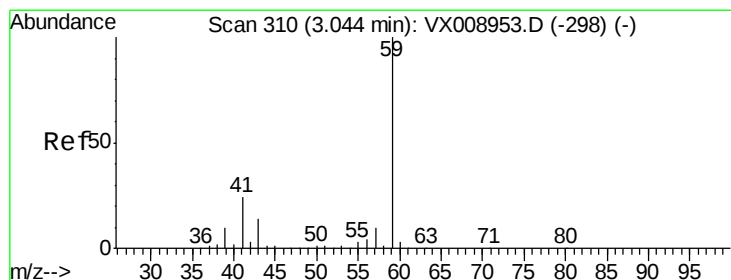
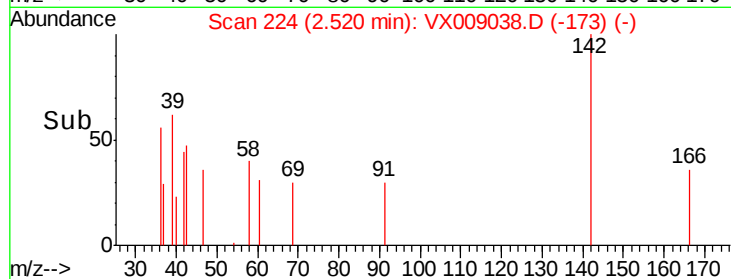
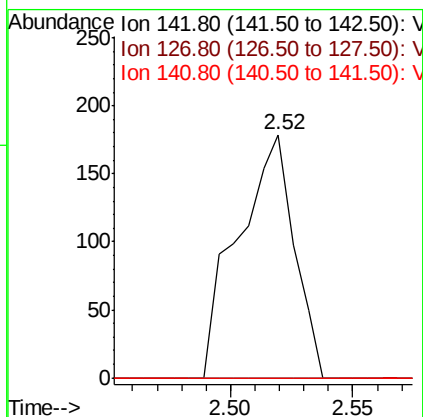
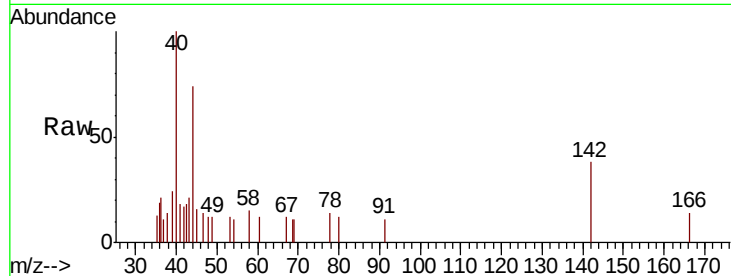
Time-->



#10
Methvl Iodide
Concen: 4.508 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

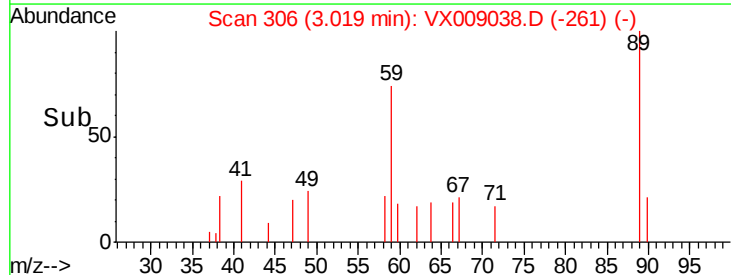
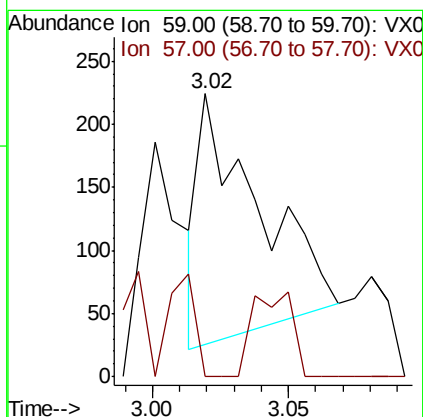
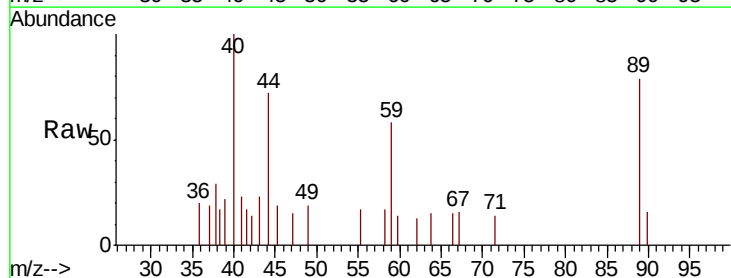
Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

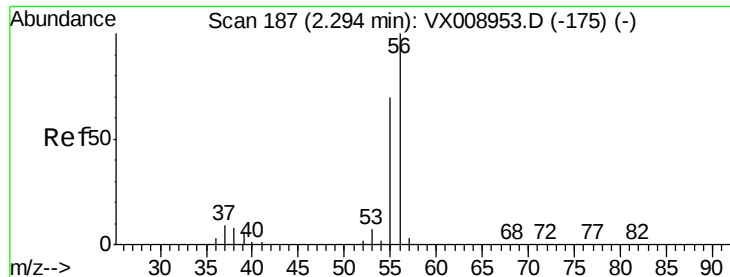
Tot Ion:142 Resp: 286
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.388 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

Tgt Ion: 59 Resp: 300
Ion Ratio Lower Upper
59 100
57 18.0 8.4 12.6#





#13

Acrolein

Concen: 0.259 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

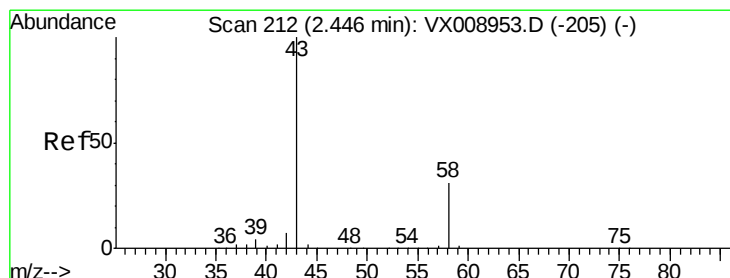
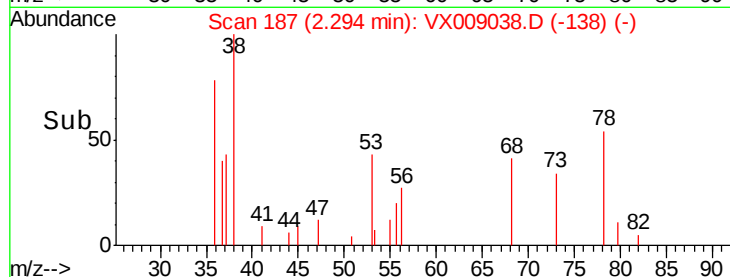
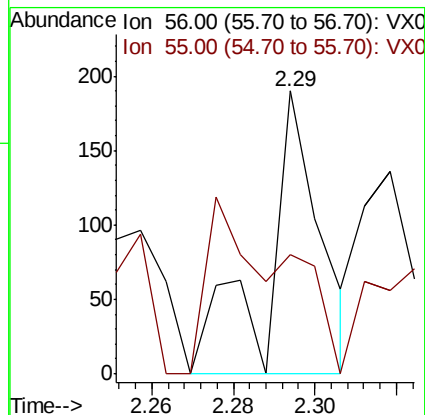
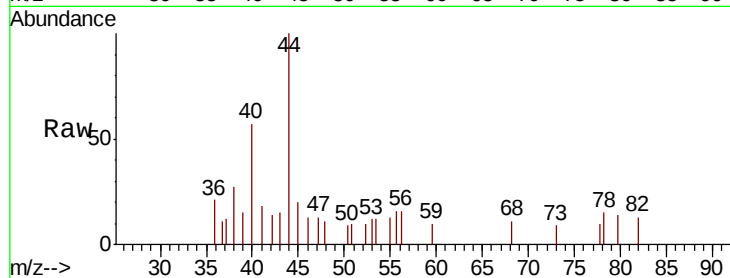
ST006MW015-190415

Tot Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 87.3 56.6 84.8#



#16

Acetone

Concen: 1.812 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009038.D

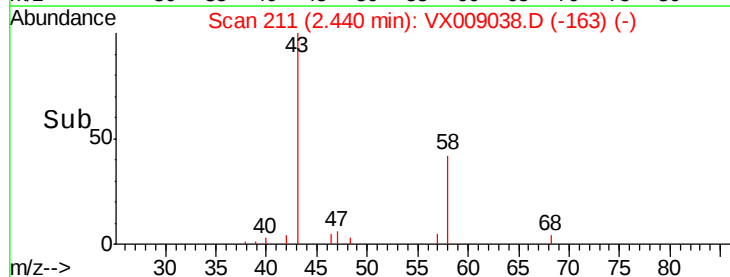
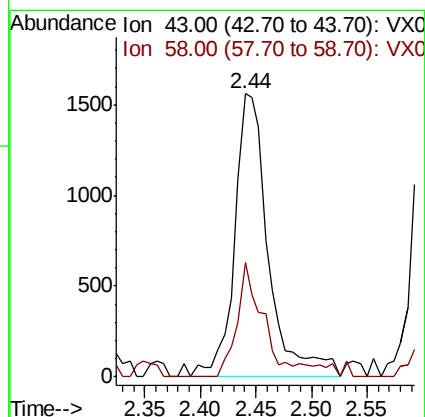
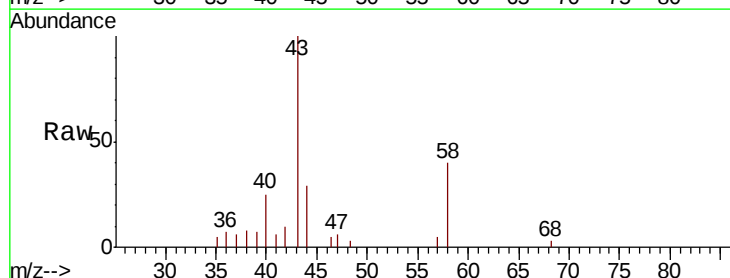
Acq: 18 Apr 2019 13:00

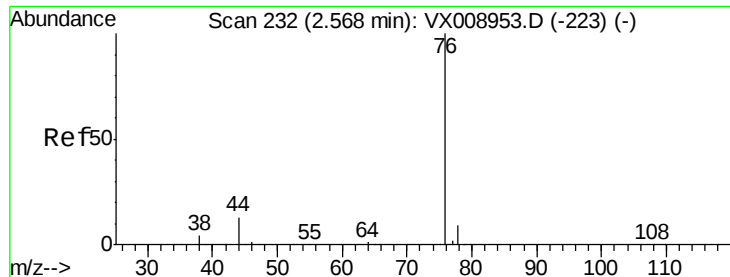
Tgt Ion: 43 Resp: 3276

Ion Ratio Lower Upper

43 100

58 40.3 24.8 37.2#





#17

Carbon Disulfide

Concen: 1.343 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

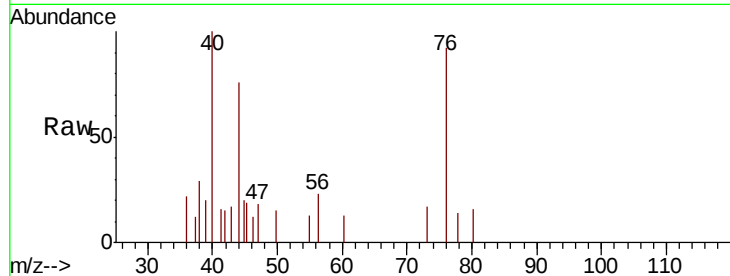
ST006MW015-190415

Tot Ion: 76 Resp: 724

Ion Ratio Lower Upper

76 100

78 14.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

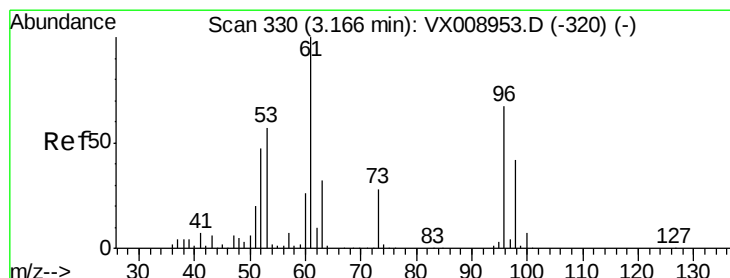
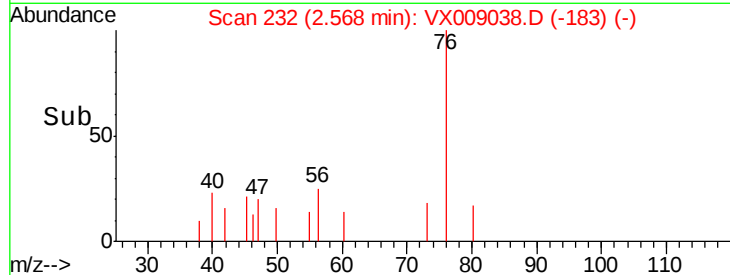
300

200

100

0

Time--> 2.50 2.55 2.60



#21

trans-1,2-Dichloroethene

Concen: 0.548 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

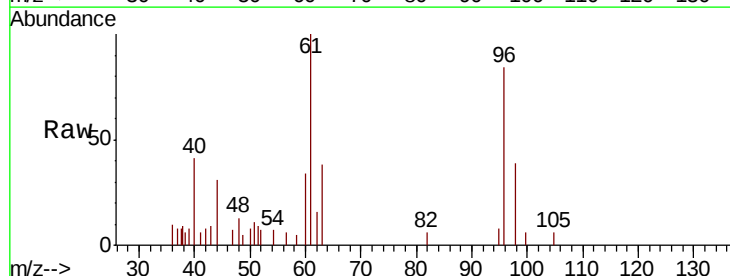
Tgt Ion: 96 Resp: 1551

Ion Ratio Lower Upper

96 100

61 119.1 120.3 180.5#

98 46.9 50.2 75.2#



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

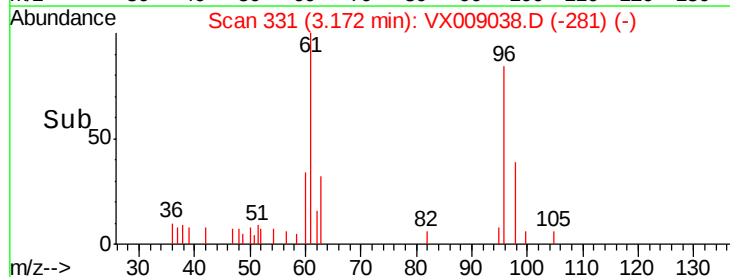
1500

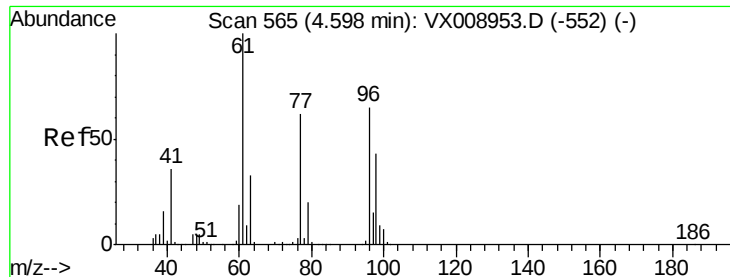
1000

500

0

Time--> 3.10 3.15 3.20



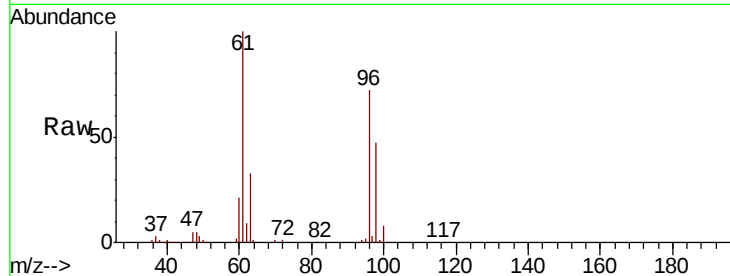


#27

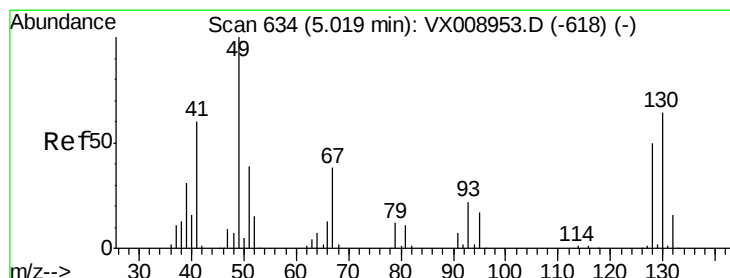
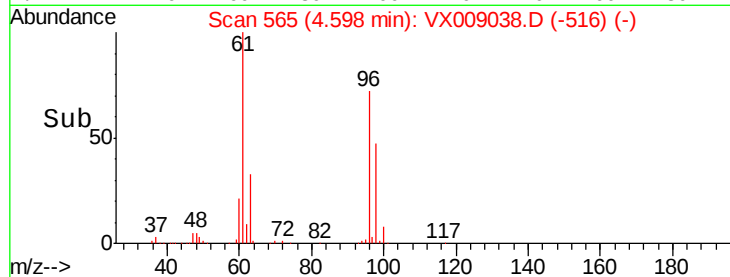
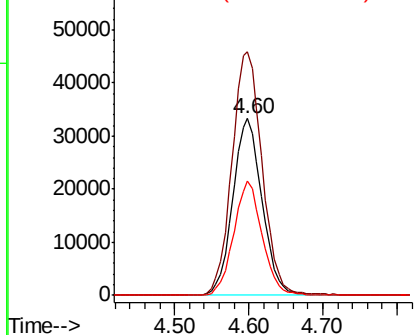
cis-1,2-Dichloroethene
 Concen: 28.528 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX009038.D
 Acq: 18 Apr 2019 13:00

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006MW015-190415

Tot Ion: 96 Resp: 91643
 Ion Ratio Lower Upper
 96 100
 61 142.4 0.0 322.0
 98 62.9 0.0 128.4



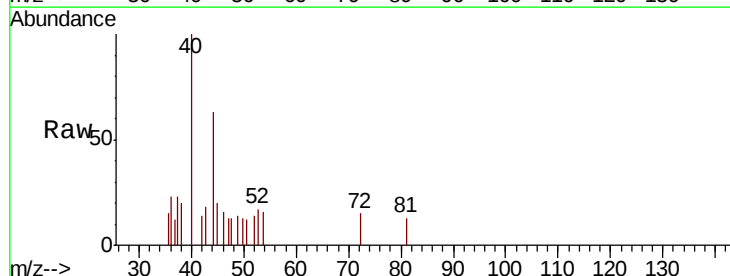
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



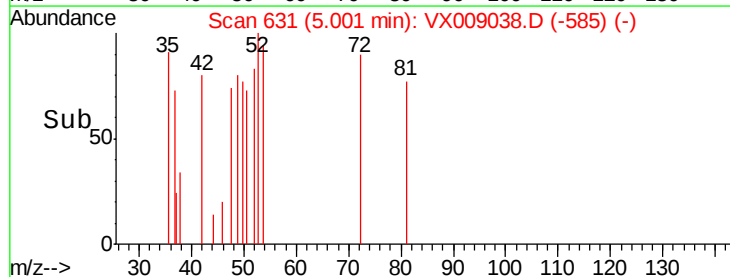
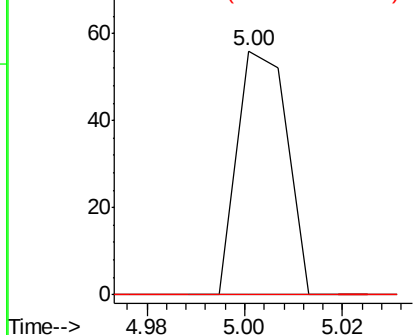
#28

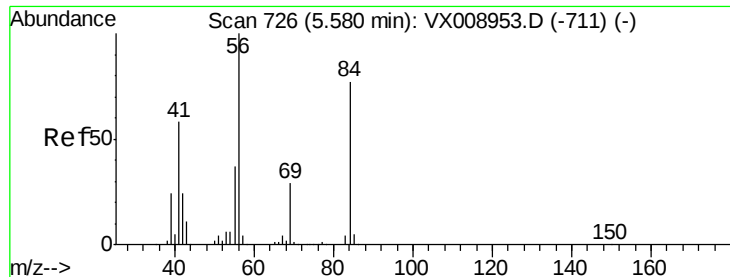
Bromochloromethane
 Concen: Below Cal
 RT: 5.00 min Scan# 631
 Delta R.T. -0.02 min
 Lab File: VX009038.D
 Acq: 18 Apr 2019 13:00

Tgt Ion: 49 Resp: 40
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

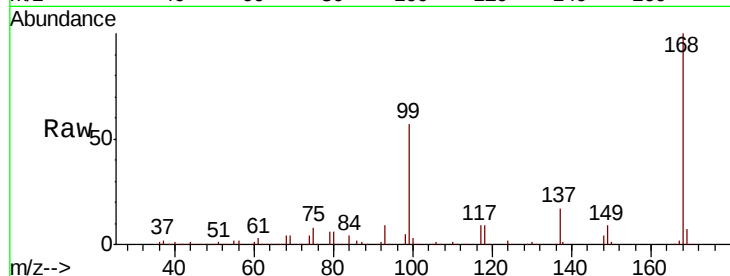




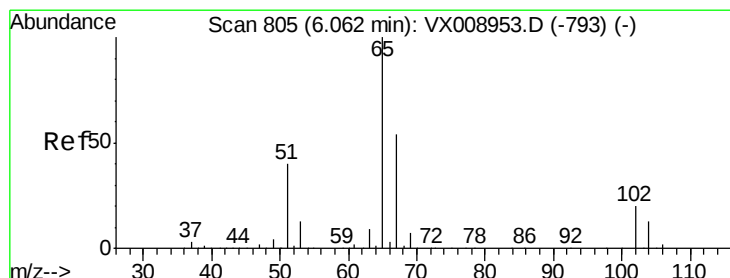
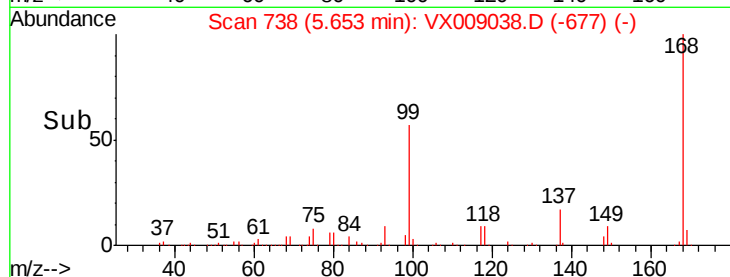
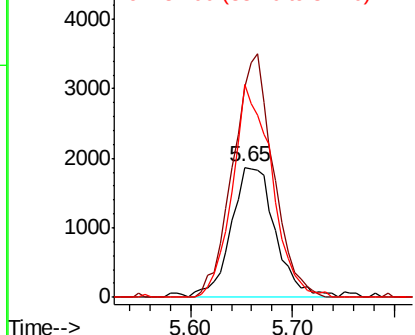
#31
Cyclohexane
Concen: 1.015 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

Tot Ion: 56 Resp: 5634
Ion Ratio Lower Upper
56 100
69 161.9 23.3 34.9#
84 163.5 61.7 92.5#

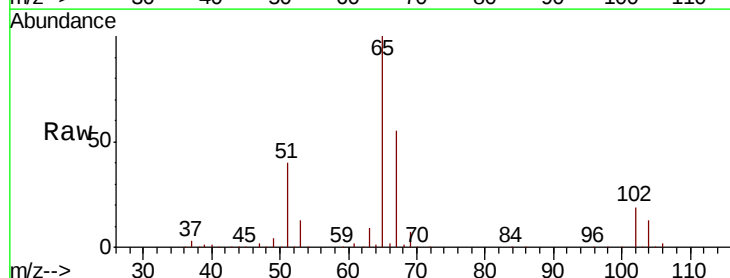


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

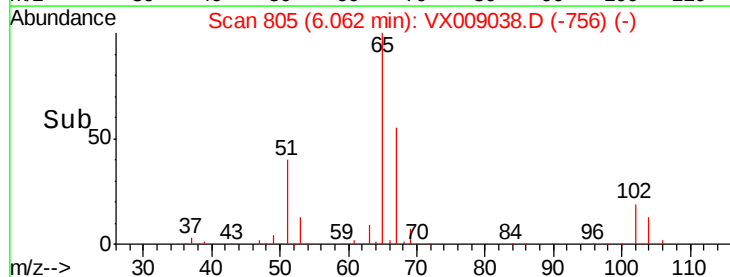
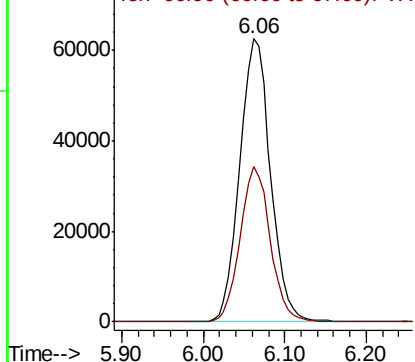


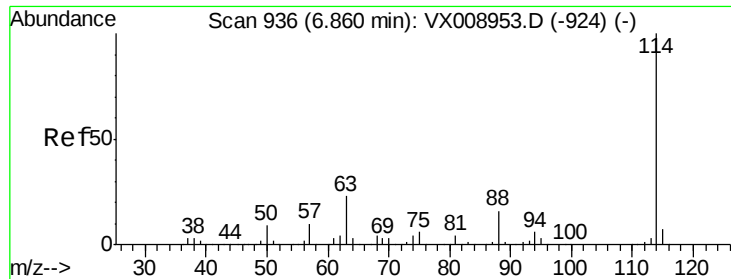
#33
1,2-Dichloroethane-d4
Concen: 47.051 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

Tgt Ion: 65 Resp: 164019
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

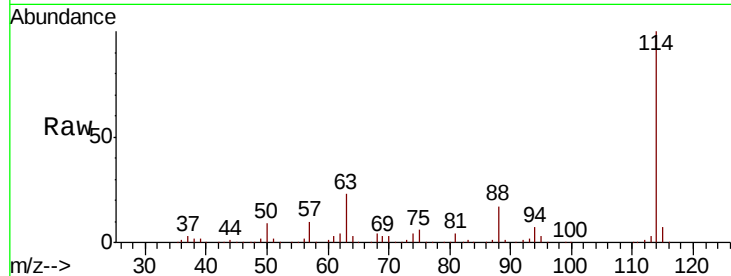




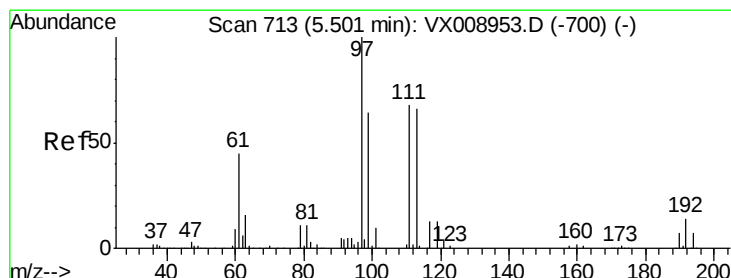
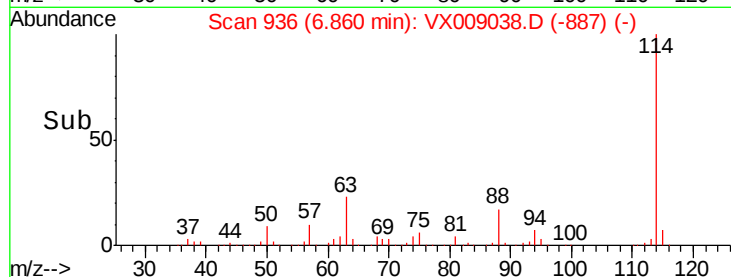
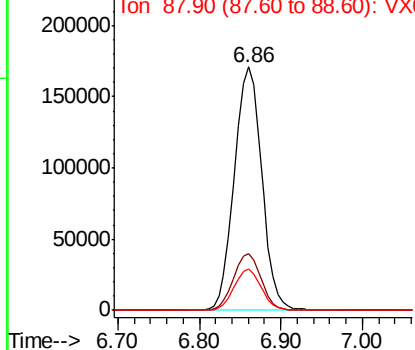
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

Tot Ion:114 Resp: 398629
Ion Ratio Lower Upper
114 100
63 23.1 0.0 46.0
88 16.9 0.0 32.6

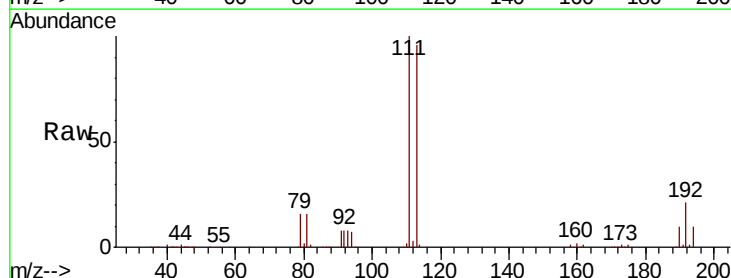


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

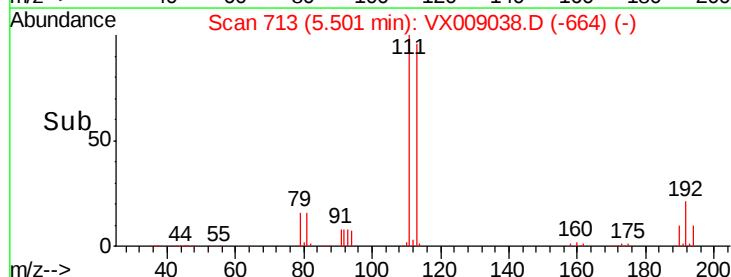
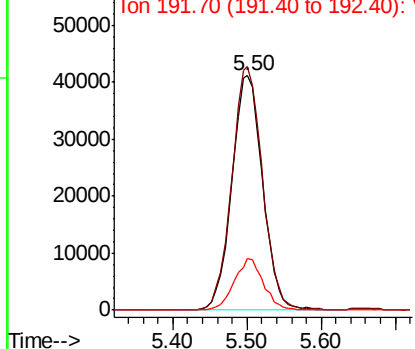


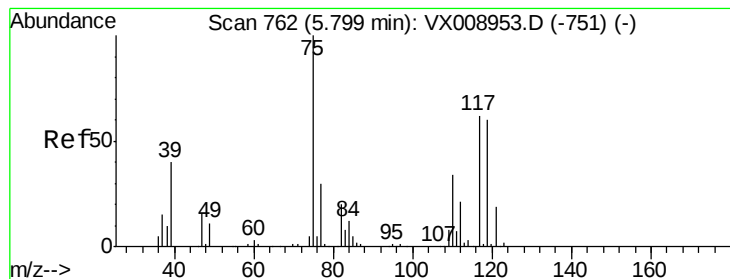
#35
Dibromofluoromethane
Concen: 46.663 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

Tgt Ion:113 Resp: 119378
Ion Ratio Lower Upper
113 100
111 103.1 82.9 124.3
192 20.8 17.4 26.0



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: 4.768 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

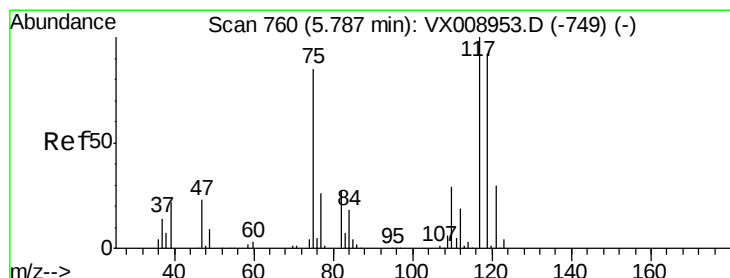
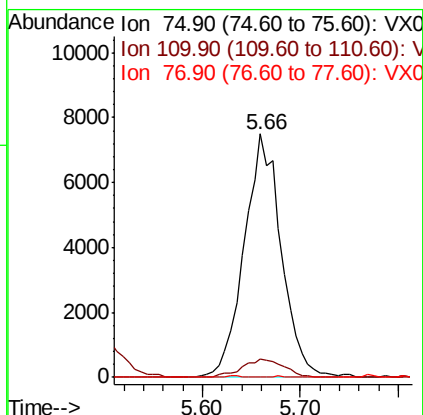
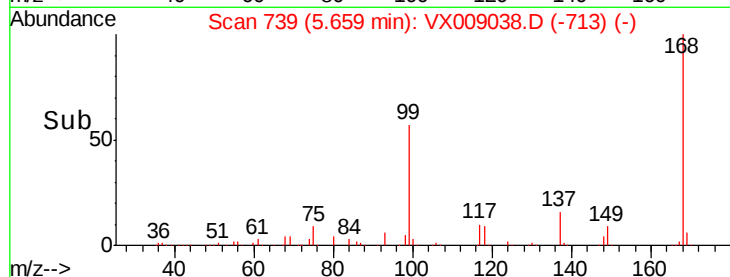
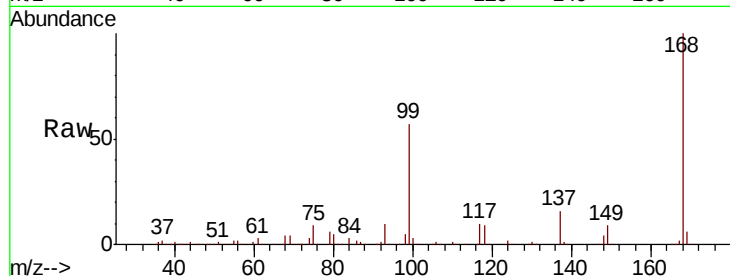
Tot Ion: 75 Resp: 19658

Ion Ratio Lower Upper

75 100

110 8.4 16.9 50.7#

77 0.1 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.827 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

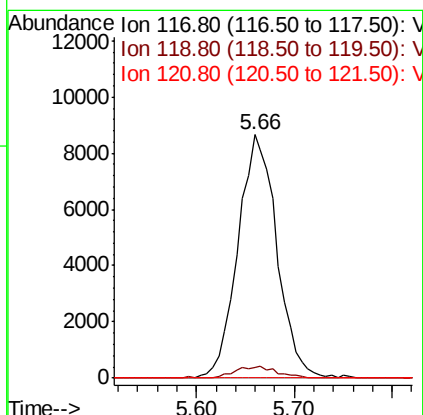
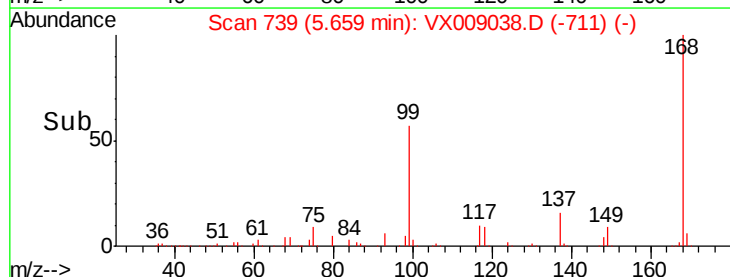
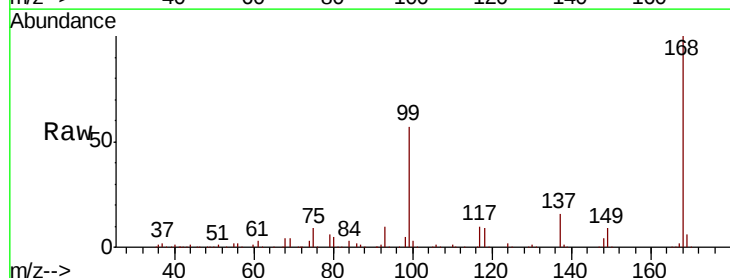
Tgt Ion: 117 Resp: 23862

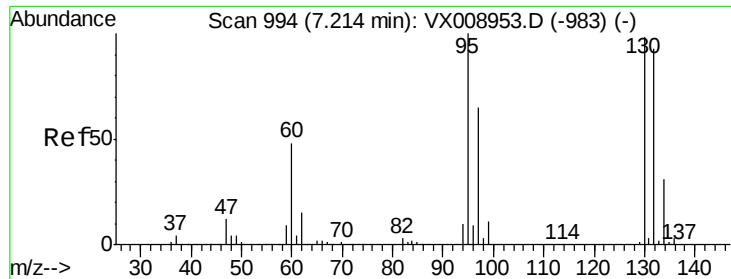
Ion Ratio Lower Upper

117 100

119 4.6 73.8 110.8#

121 0.0 23.6 35.4#





#44

Trichloroethene

Concen: 2.324 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

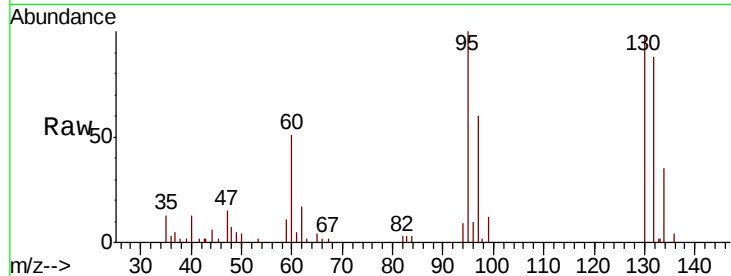
ST006MW015-190415

Tot Ion:130 Resp: 6926

Ion Ratio Lower Upper

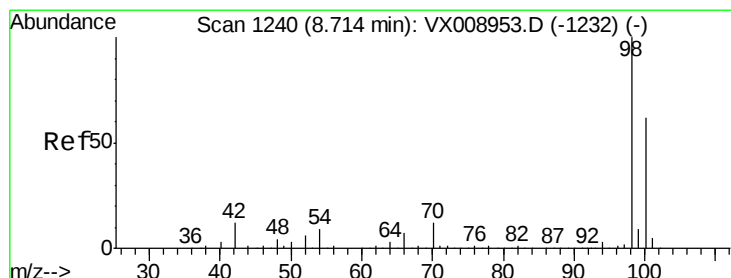
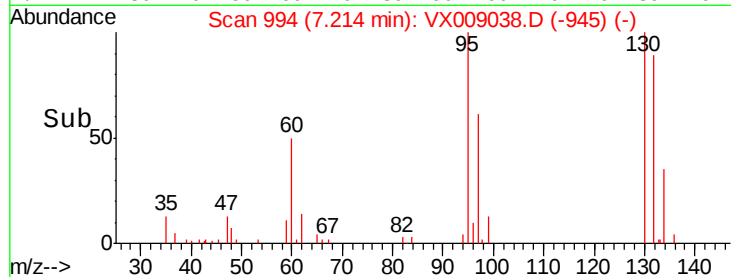
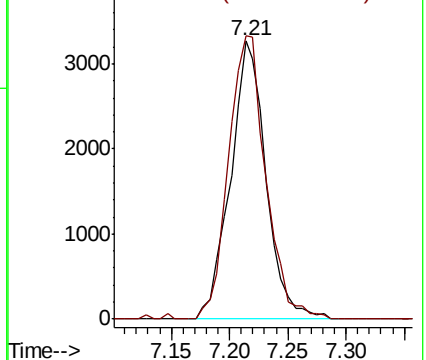
130 100

95 101.6 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.571 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009038.D

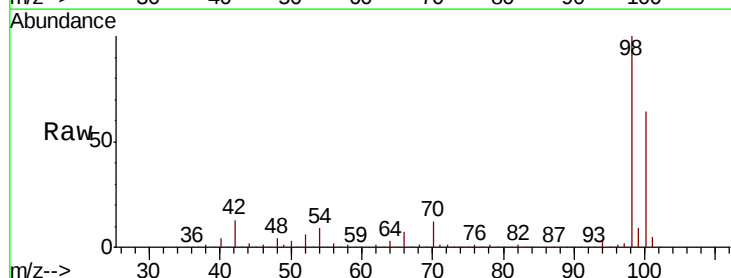
Acq: 18 Apr 2019 13:00

Tgt Ion: 98 Resp: 495550

Ion Ratio Lower Upper

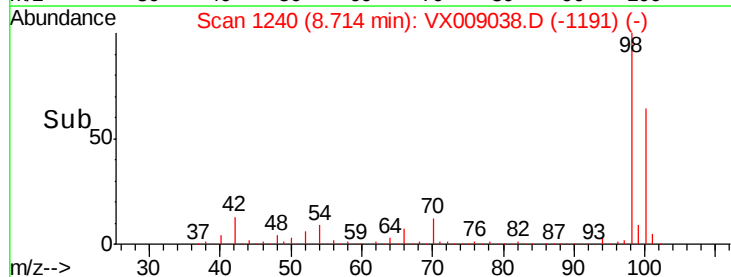
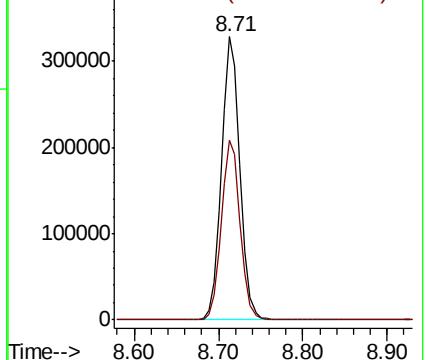
98 100

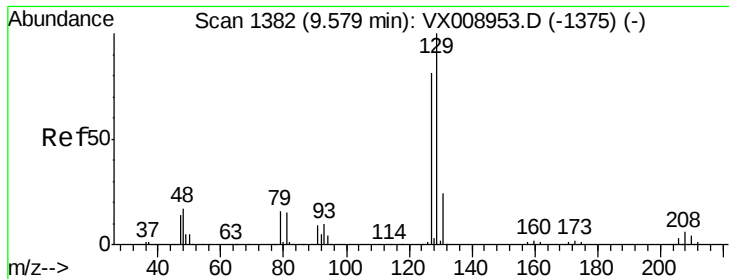
100 64.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

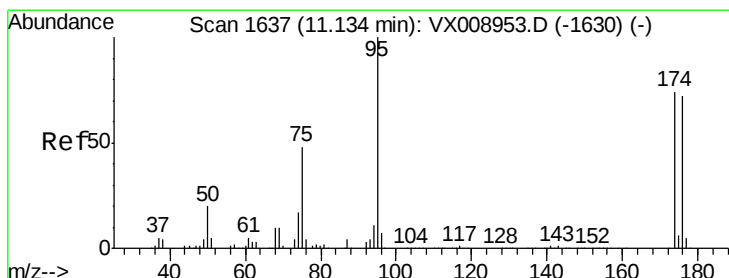
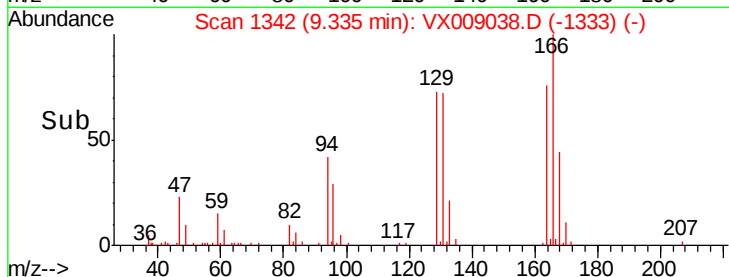
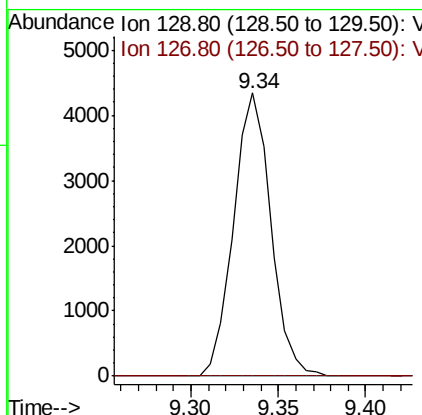
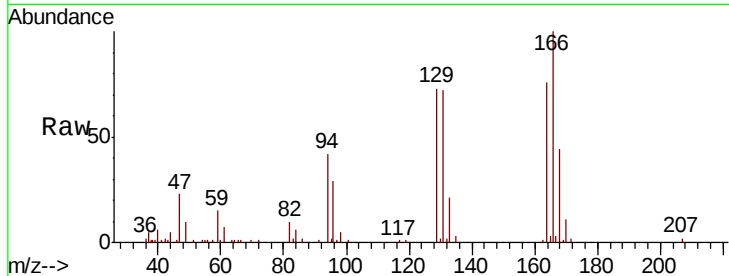




#60
 Dibromochloromethane
 Concen: 2.323 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009038.D
 Acq: 18 Apr 2019 13:00

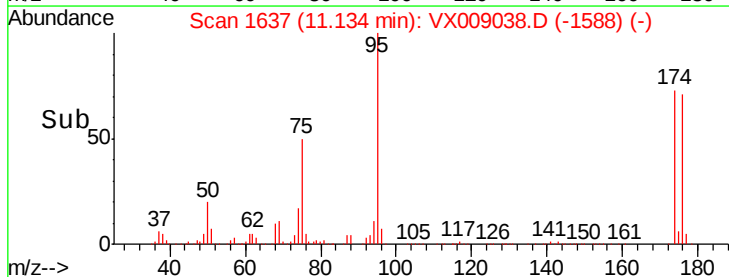
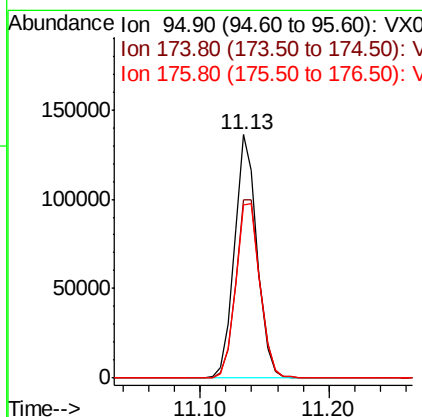
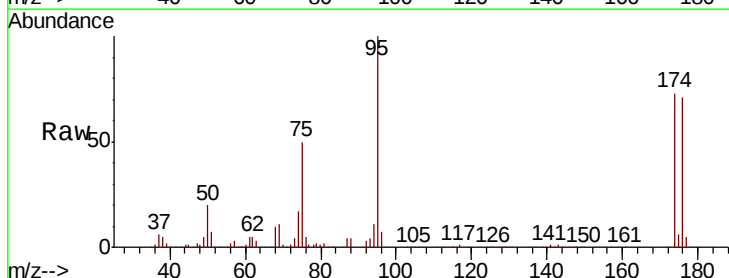
Instrument :
 MSVOA_X
 ClientSampleId :
 ST006MW015-190415

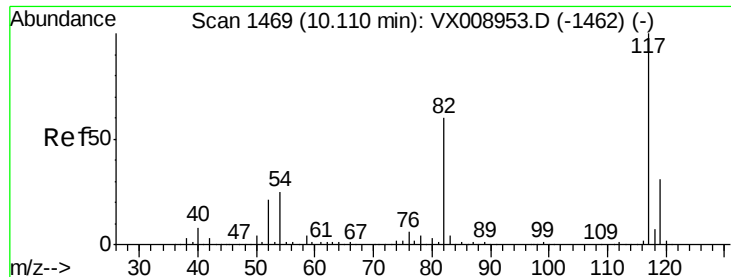
Tot Ion:129 Resp: 6433
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#



#62
 4-Bromofluorobenzene
 Concen: 46.088 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009038.D
 Acq: 18 Apr 2019 13:00

Tgt Ion: 95 Resp: 165987
 Ion Ratio Lower Upper
 95 100
 174 78.3 0.0 159.6
 176 76.7 0.0 154.8

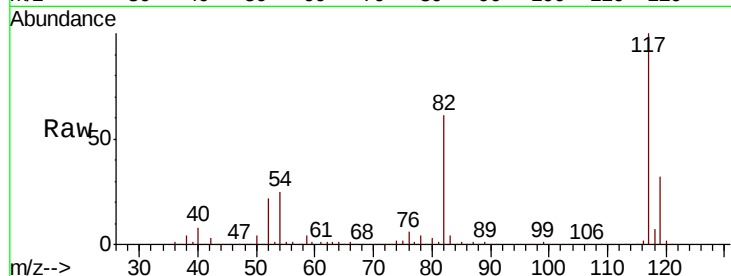




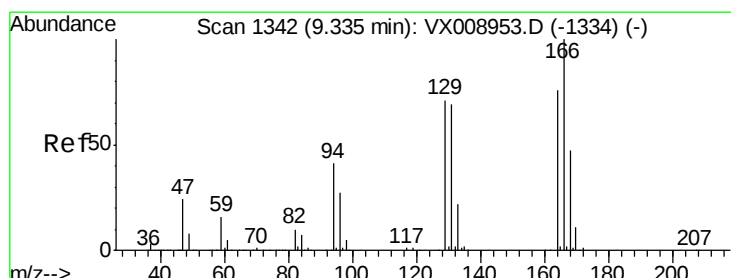
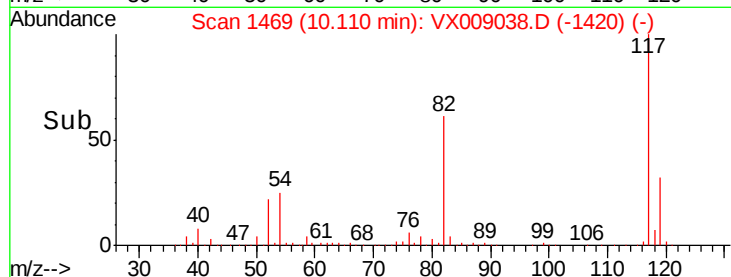
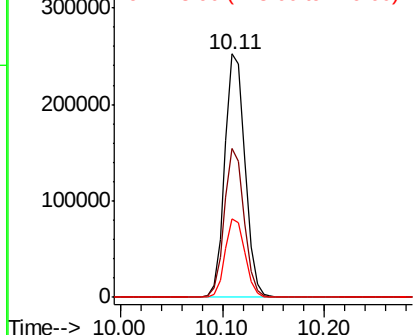
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

Tot Ion:117 Resp: 345642
Ion Ratio Lower Upper
117 100
82 61.0 48.2 72.4
119 32.5 25.0 37.6

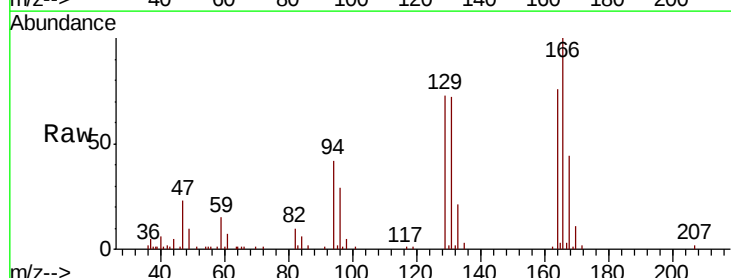


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

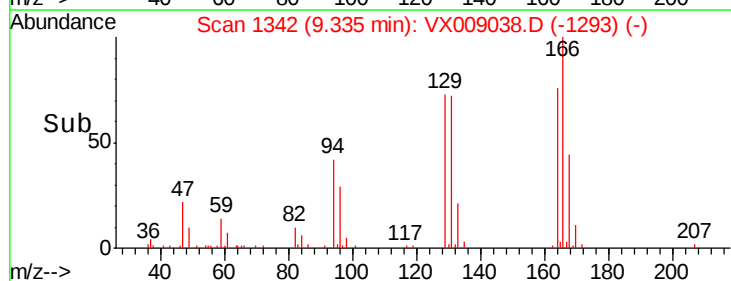
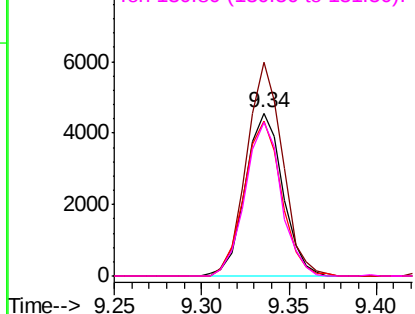


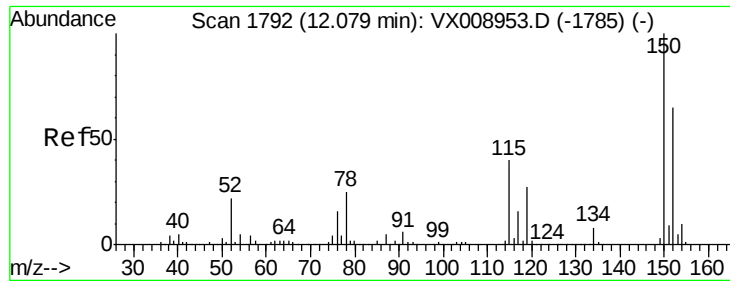
#64
Tetrachloroethene
Concen: 2.586 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009038.D
Acq: 18 Apr 2019 13:00

Tgt Ion:164 Resp: 6790
Ion Ratio Lower Upper
164 100
166 131.2 105.0 157.4
129 95.3 74.2 111.4
131 94.0 72.2 108.2



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

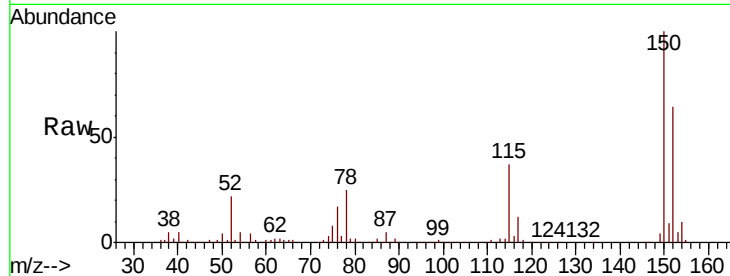
Tot Ion:152 Resp: 146055

Ion Ratio Lower Upper

152 100

115 60.0 41.4 124.2

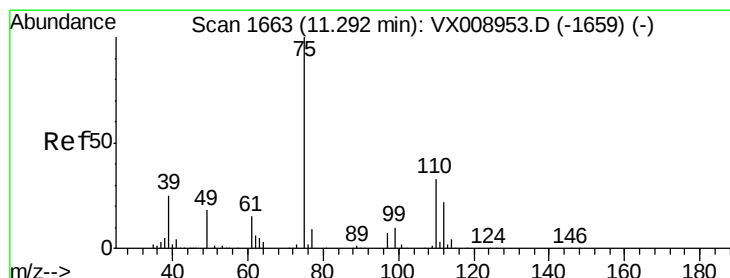
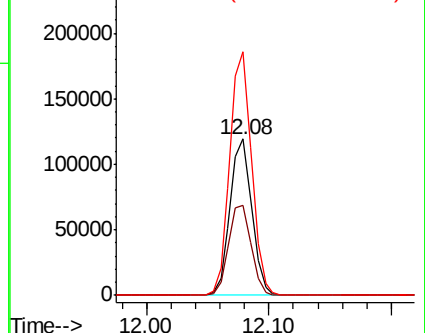
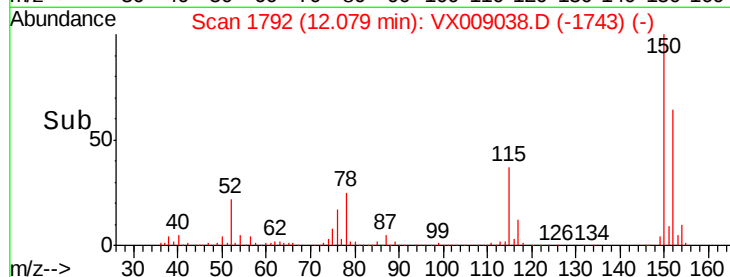
150 156.3 0.0 349.8



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: 23.708 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009038.D

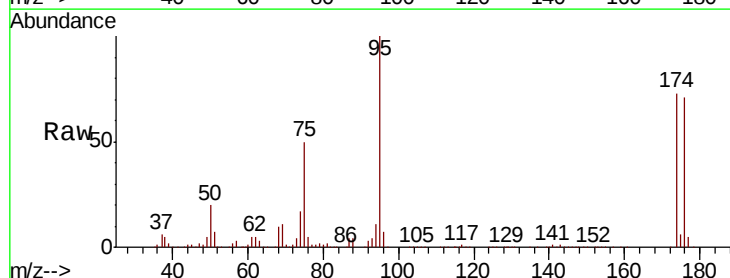
Acq: 18 Apr 2019 13:00

Tgt Ion: 75 Resp: 84553

Ion Ratio Lower Upper

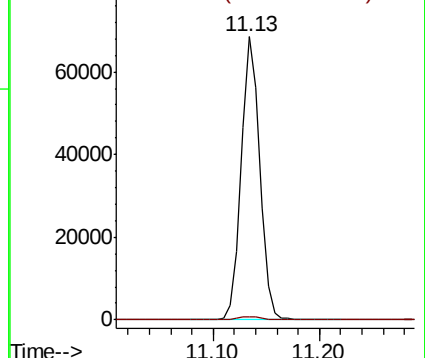
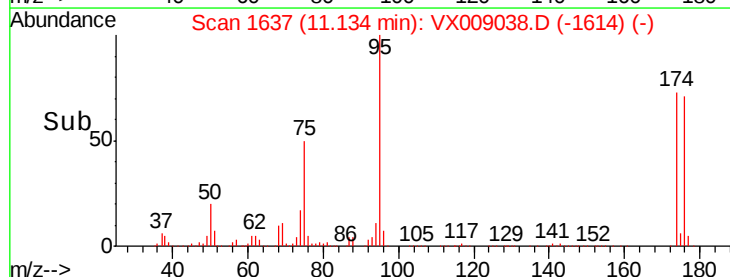
75 100

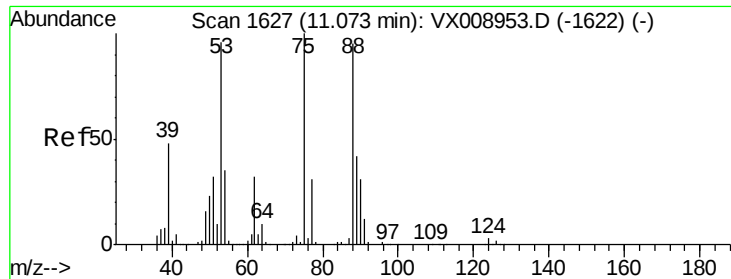
77 1.4 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.866 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009038.D

Acq: 18 Apr 2019 13:00

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

Tot Ion: 75 Resp: 84553

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

