

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041519\
 Data File : VX008968.D
 Acq On : 15 Apr 2019 18:19
 Operator : JC/SP
 Sample : K2387-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW132-190411

Quant Time: Apr 16 03:24:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 02:27:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	267612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	434242	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	365508	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150923	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	176156	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
35) Dibromofluoromethane	5.50	113	129456	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	
50) Toluene-d8	8.71	98	527048	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
62) 4-Bromofluorobenzene	11.13	95	172035	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	

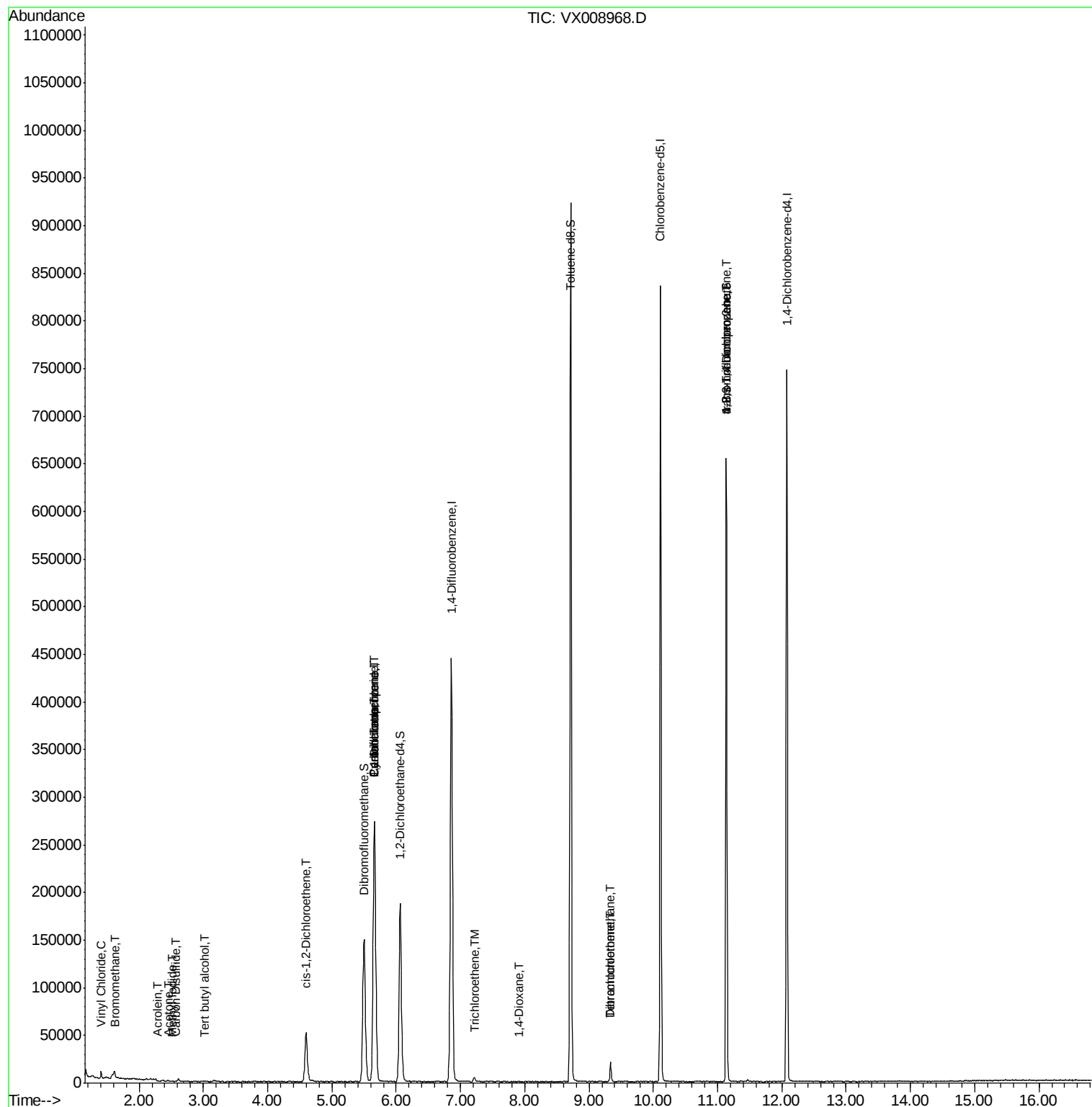
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	4759	1.292	ug/l	100
5) Bromomethane	1.62	94	265	3.954	ug/l #	42
10) Methyl Iodide	2.51	142	181	4.469	ug/l #	58
11) Tert butyl alcohol	3.01	59	457	0.546	ug/l #	72
13) Acrolein	2.29	56	157	0.217	ug/l #	44
16) Acetone	2.45	43	746	0.381	ug/l #	80
17) Carbon Disulfide	2.57	76	681	1.331	ug/l #	75
27) cis-1,2-Dichloroethene	4.60	96	31547	9.077	ug/l	89
28) Bromochloromethane	5.01	49	86	Below Cal	#	21
31) Cyclohexane	5.67	56	5939	0.989	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20888	4.651	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25470	6.690	ug/l #	18
44) Trichloroethene	7.21	130	1719	0.530	ug/l	86
49) 1,4-Dioxane	7.90	88	21	0.244	ug/l #	4
60) Dibromochloromethane	9.34	129	3377	1.120	ug/l #	10
64) Tetrachloroethene	9.34	164	3750	1.351	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	86980	23.602	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	86980	60.594	ug/l #	11

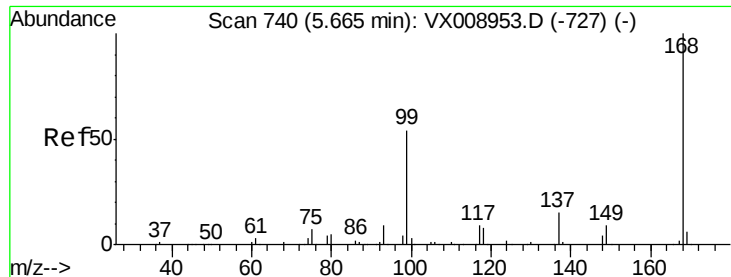
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

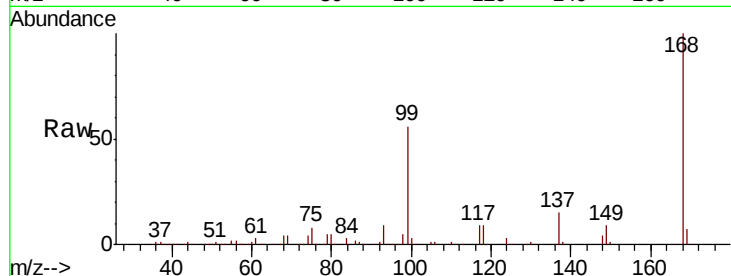
SS042MW132-190411

Tot Ion:168 Resp: 267612

Ion Ratio Lower Upper

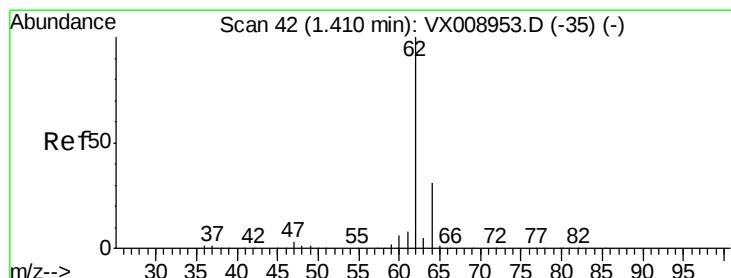
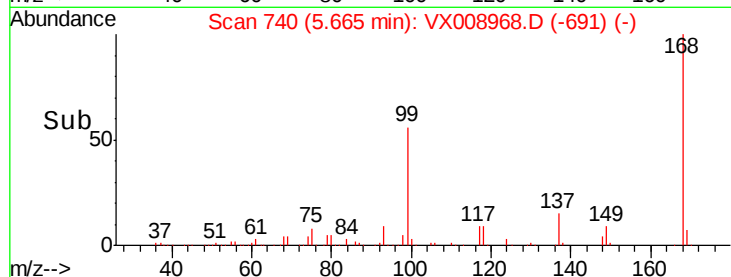
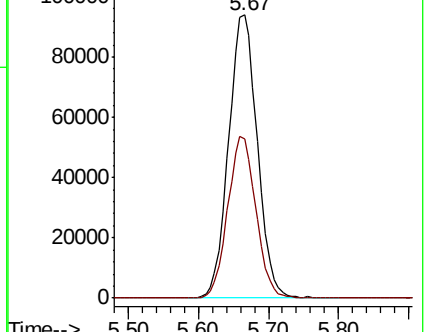
168 100

99 56.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 1.292 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008968.D

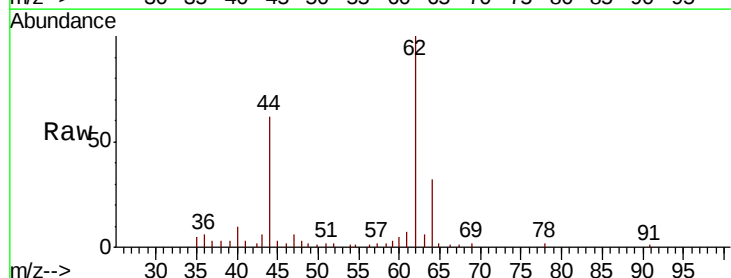
Acq: 15 Apr 2019 18:19

Tgt Ion: 62 Resp: 4759

Ion Ratio Lower Upper

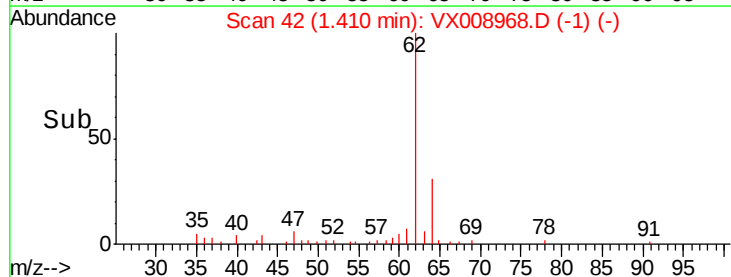
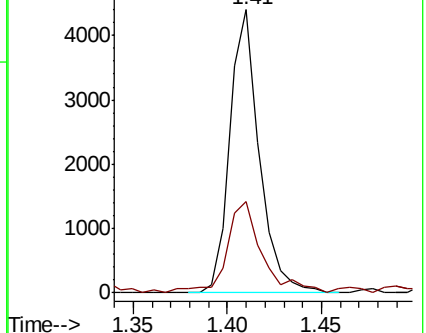
62 100

64 30.9 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 3.954 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

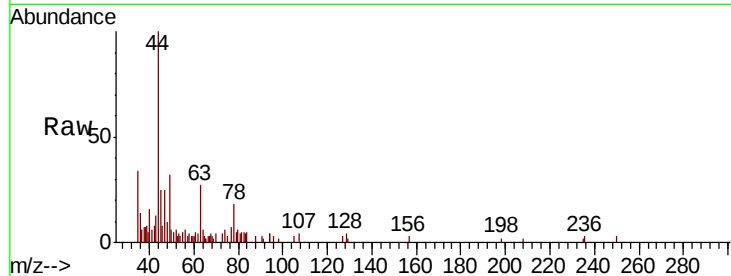
SS042MW132-190411

Tot Ion: 94 Resp: 265

Ion Ratio Lower Upper

94 100

96 36.9 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

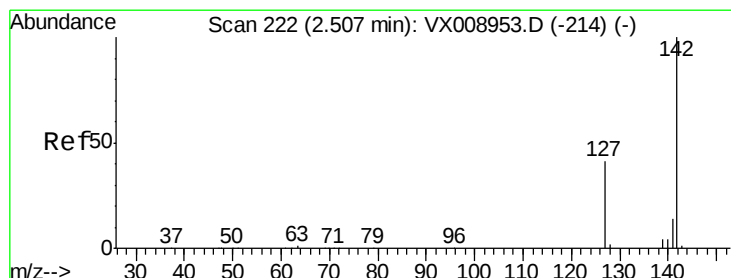
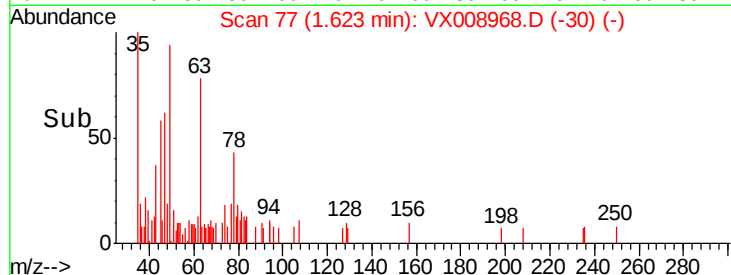
100

50

0

1.58 1.60 1.62 1.64

Time-->



#10

Methyl Iodide

Concen: 4.469 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

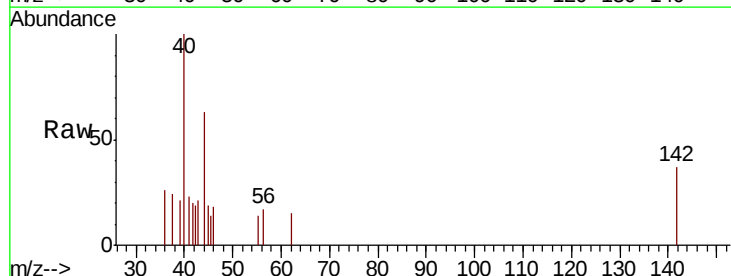
Tgt Ion: 142 Resp: 181

Ion Ratio Lower Upper

142 100

127 13.3 32.8 49.2#

141 0.0 11.4 17.2#



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

150

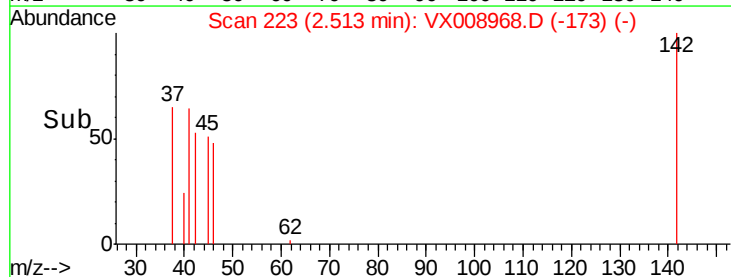
100

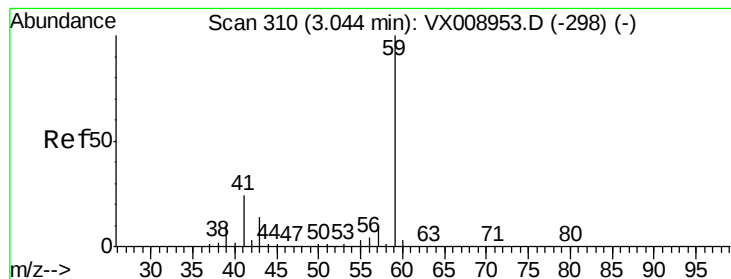
50

0

2.48 2.50 2.52 2.54

Time-->



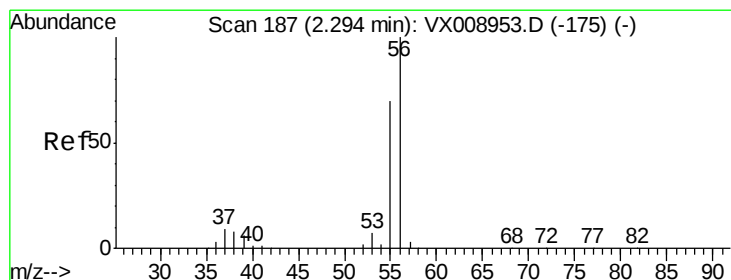
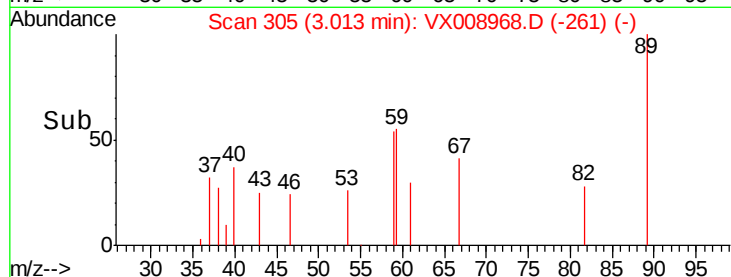
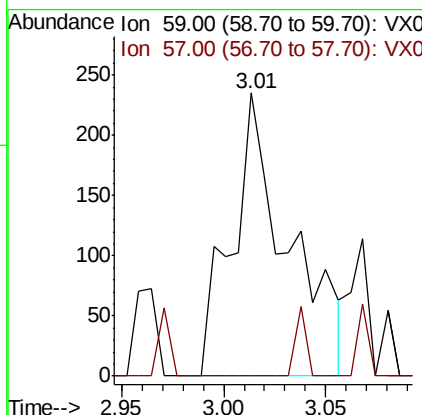
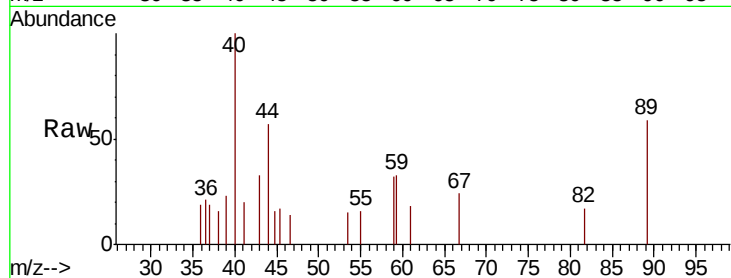


#11

Tert butyl alcohol
 Concen: 0.546 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.03 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW132-190411

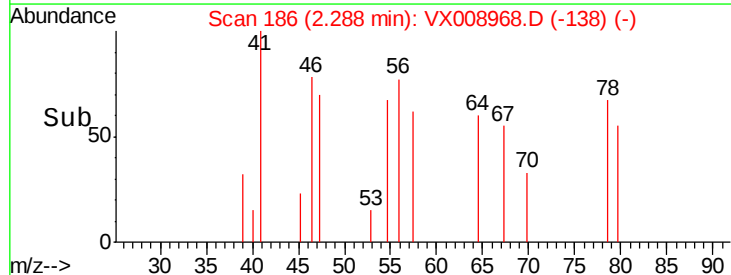
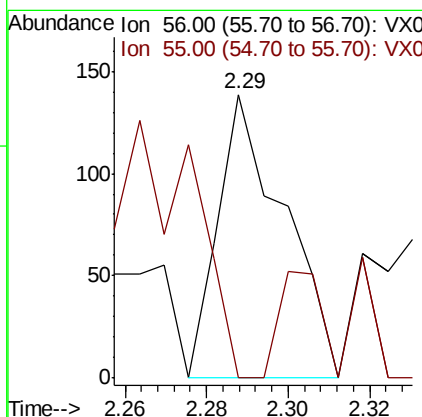
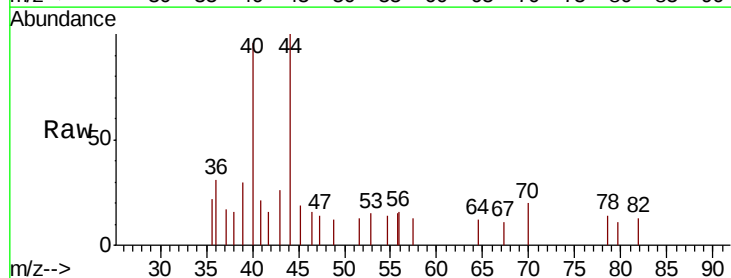
Tot Ion: 59 Resp: 457
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

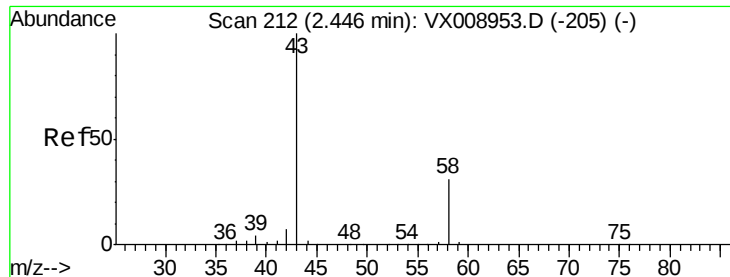


#13

Acrolein
 Concen: 0.217 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Tgt Ion: 56 Resp: 157
 Ion Ratio Lower Upper
 56 100
 55 24.2 56.6 84.8#





#16

Acetone

Concen: 0.381 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

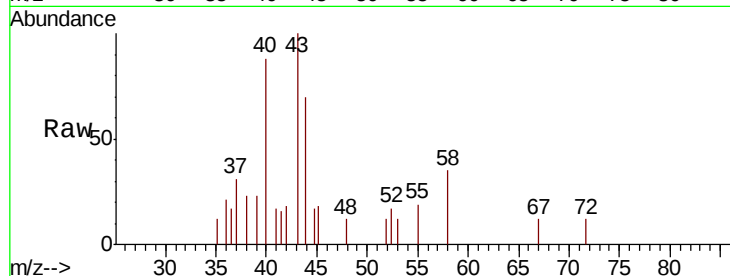
SS042MW132-190411

Tot Ion: 43 Resp: 746

Ion Ratio Lower Upper

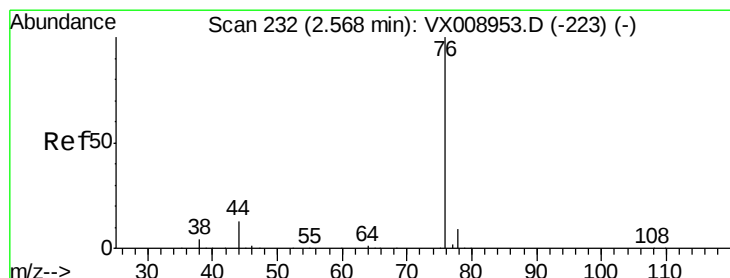
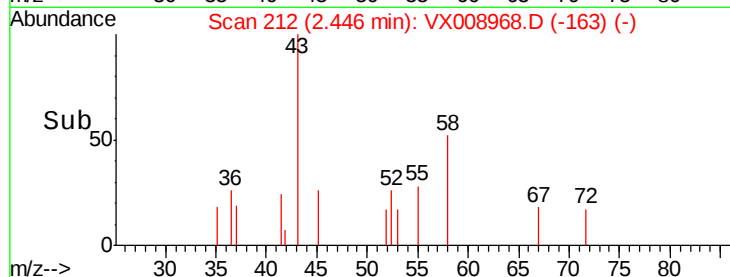
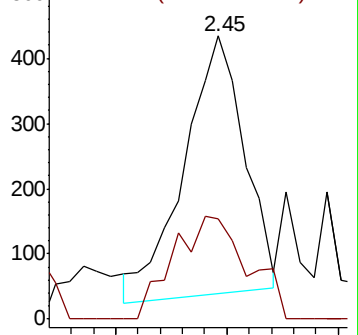
43 100

58 41.9 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.331 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008968.D

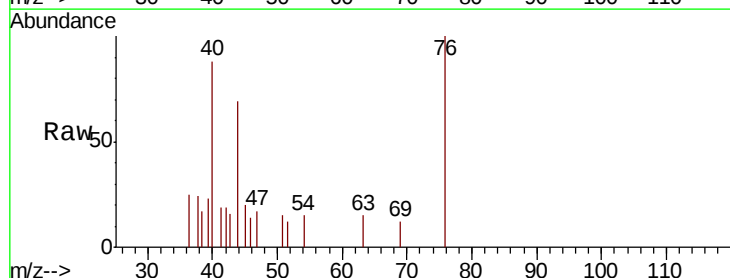
Acq: 15 Apr 2019 18:19

Tgt Ion: 76 Resp: 681

Ion Ratio Lower Upper

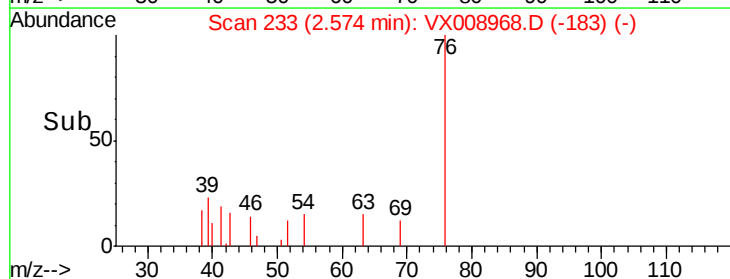
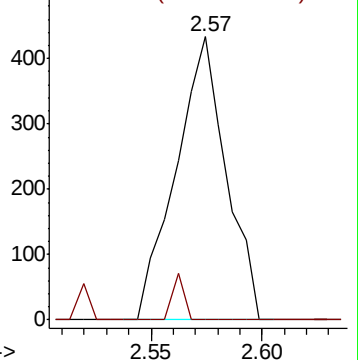
76 100

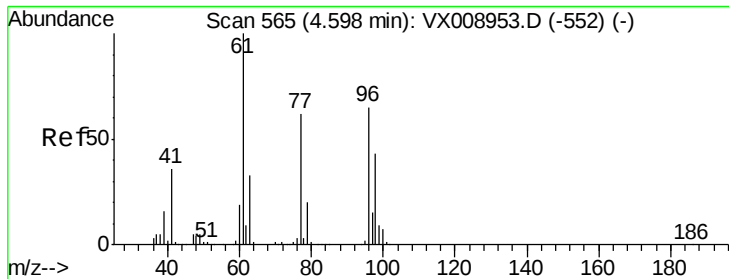
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



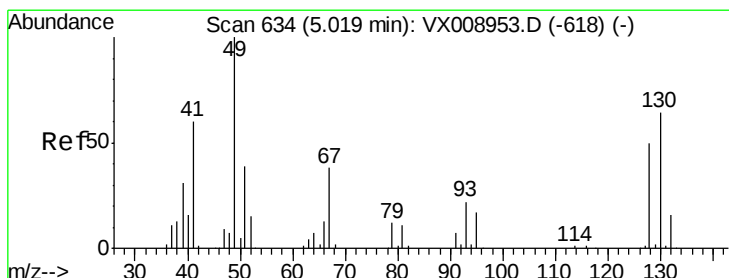
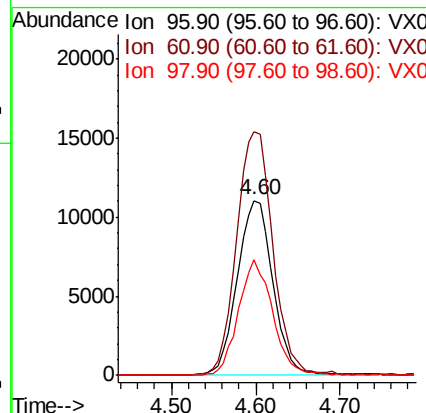
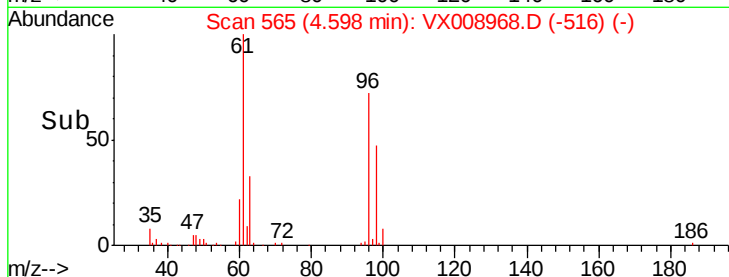
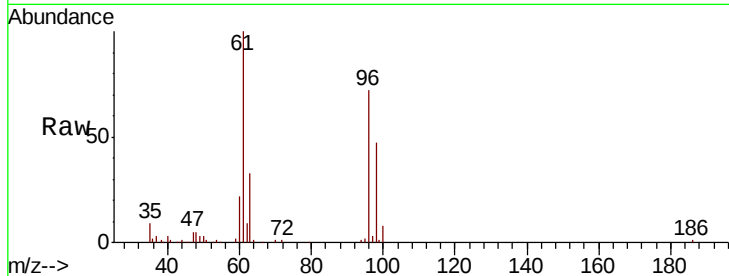


#27

cis-1,2-Dichloroethene
Concen: 9.077 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008968.D
Acq: 15 Apr 2019 18:19

Instrument :
MSVOA_X
ClientSampleId :
SS042MW132-190411

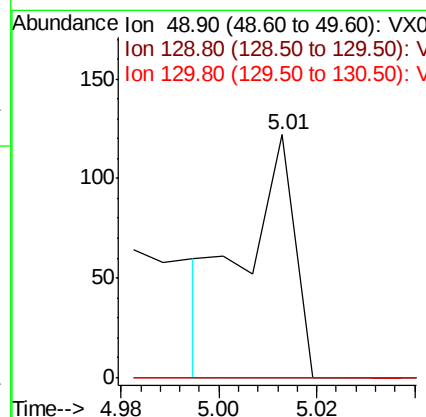
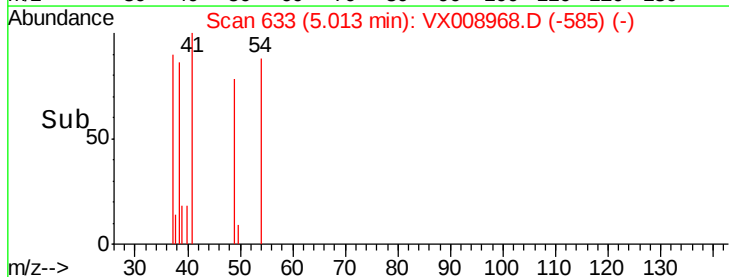
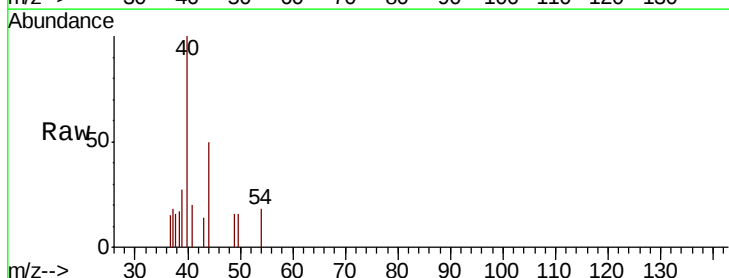
Tot Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	322.0
98	63.3	0.0	128.4

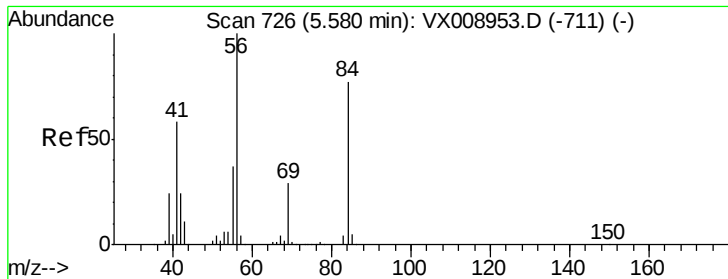


#28

Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX008968.D
Acq: 15 Apr 2019 18:19

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

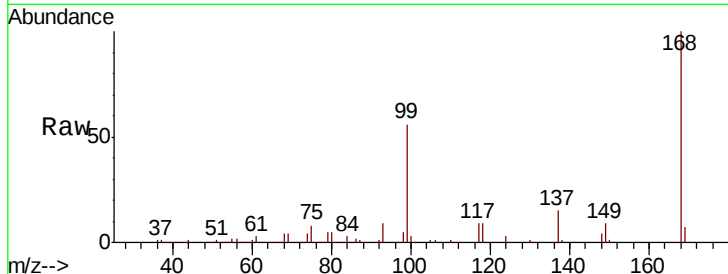




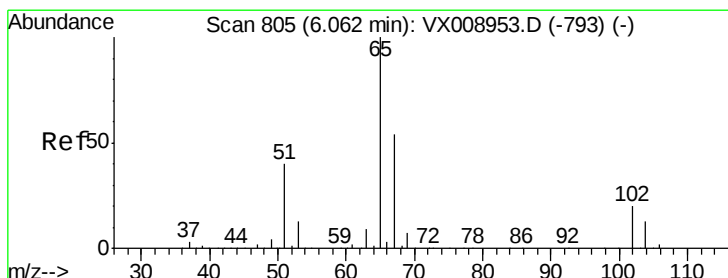
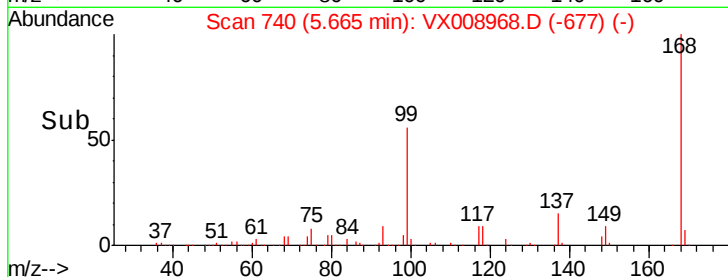
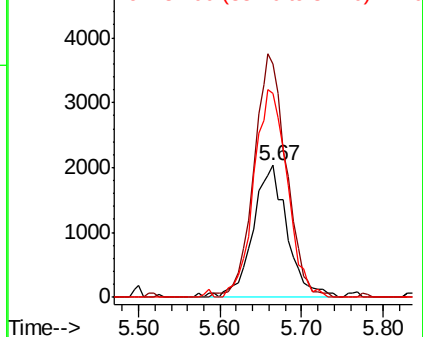
#31
Cyclohexane
Concen: 0.989 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008968.D
Acq: 15 Apr 2019 18:19

Instrument :
MSVOA_X
ClientSampleId :
SS042MW132-190411

Tot Ion: 56 Resp: 5939
Ion Ratio Lower Upper
56 100
69 176.7 23.3 34.9#
84 154.7 61.7 92.5#

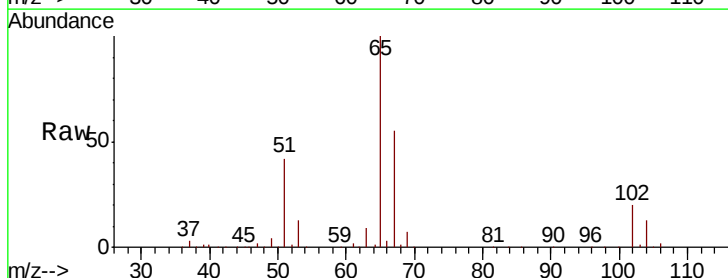


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

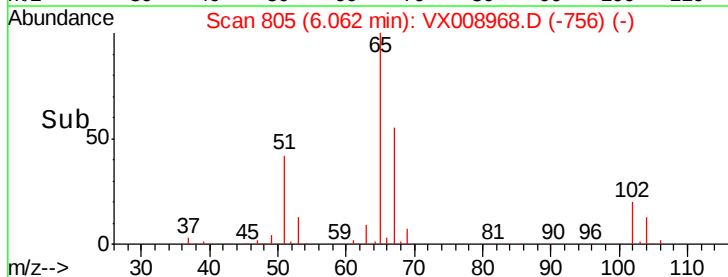
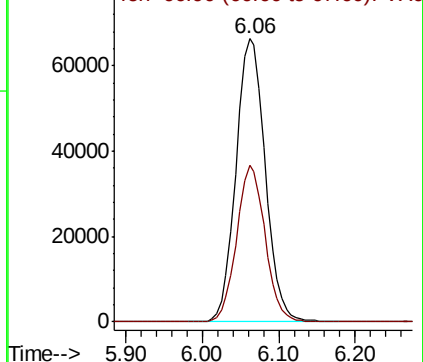


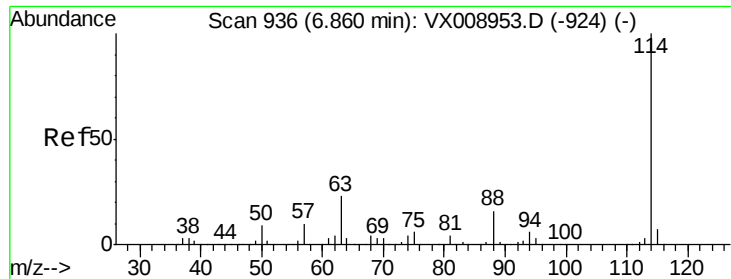
#33
1,2-Dichloroethane-d4
Concen: 46.708 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008968.D
Acq: 15 Apr 2019 18:19

Tgt Ion: 65 Resp: 176156
Ion Ratio Lower Upper
65 100
67 53.9 0.0 108.6



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

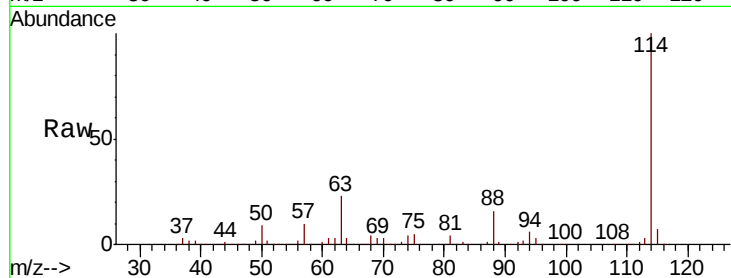




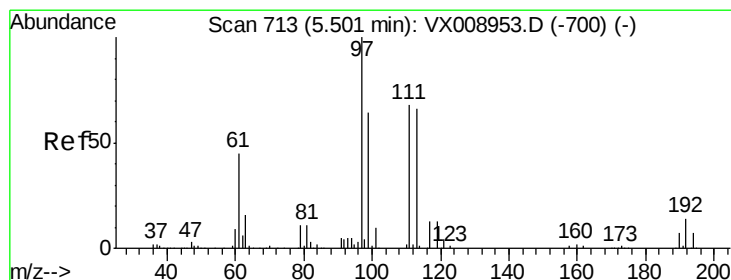
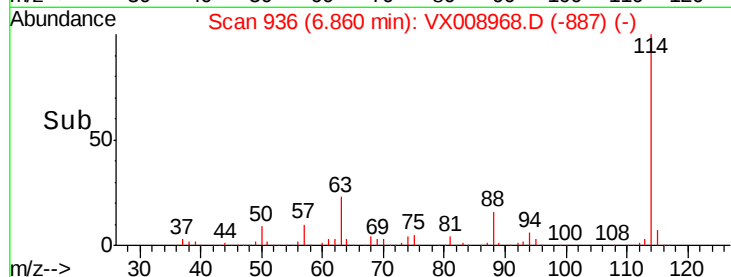
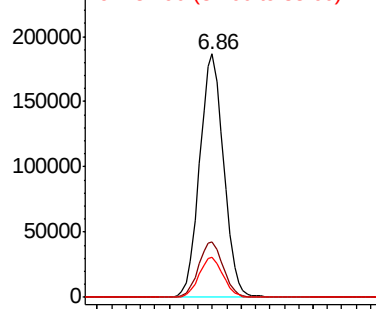
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW132-190411

Tot Ion:114 Resp: 434242
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 46.0
 88 16.3 0.0 32.6

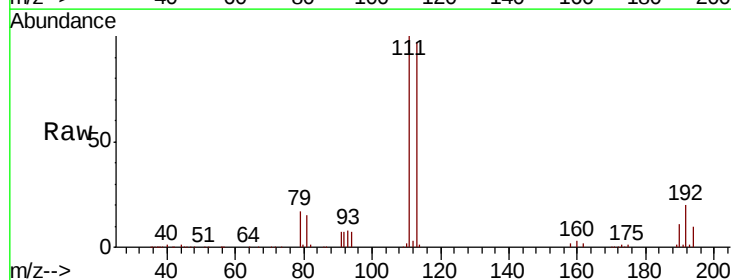


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

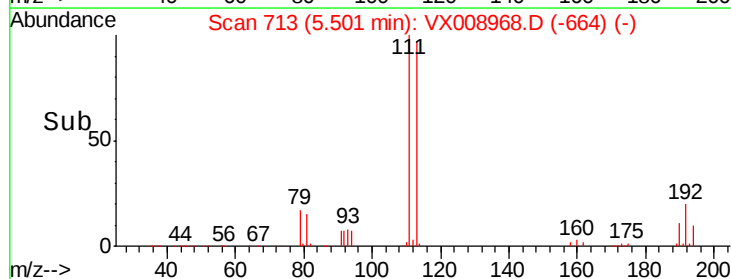
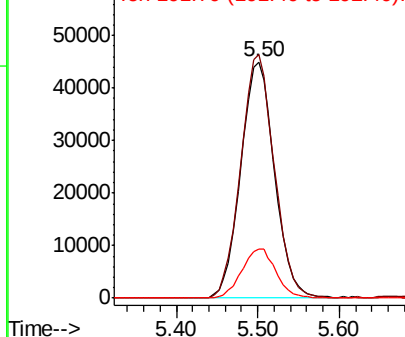


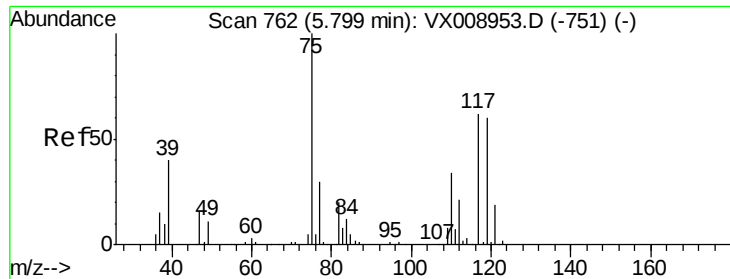
#35
 Dibromofluoromethane
 Concen: 46.452 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Tgt Ion:113 Resp: 129456
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.9 124.3
 192 21.1 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

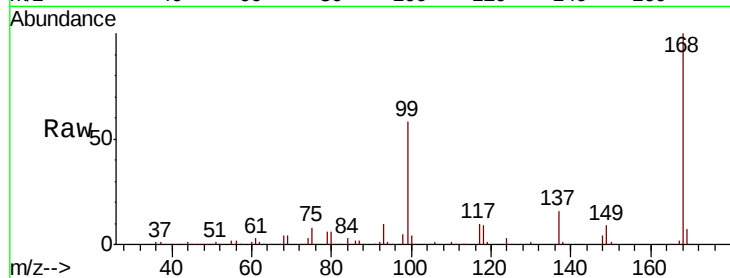




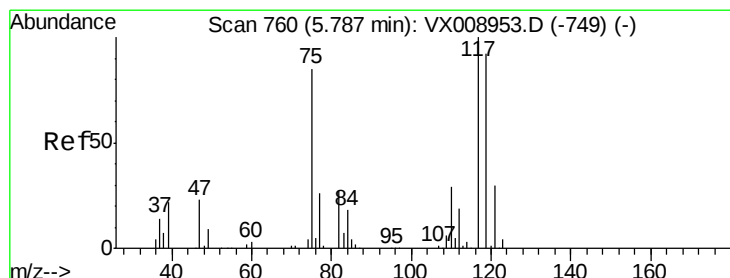
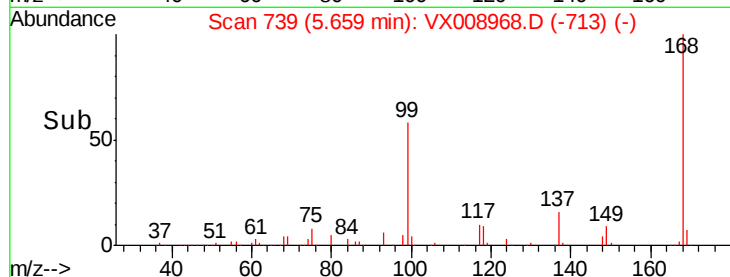
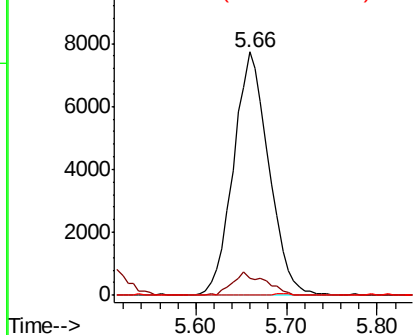
#36
 1,1-Dichloropropene
 Concen: 4.651 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW132-190411

Tot Ion	75	Resp	20888
Ion Ratio	Lower	Upper	
75	100		
110	8.8	16.9	50.7#
77	0.0	25.0	37.4#

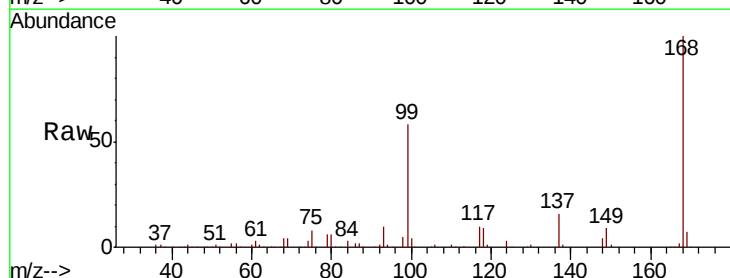


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

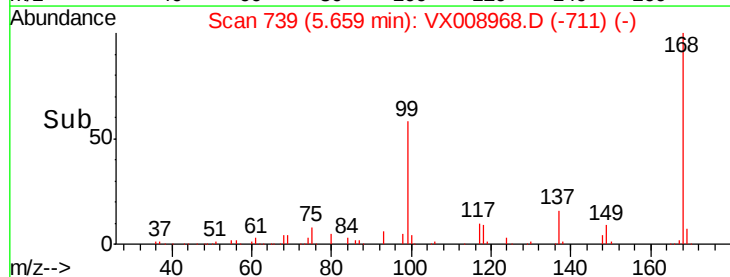
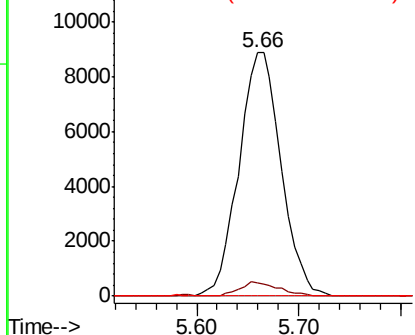


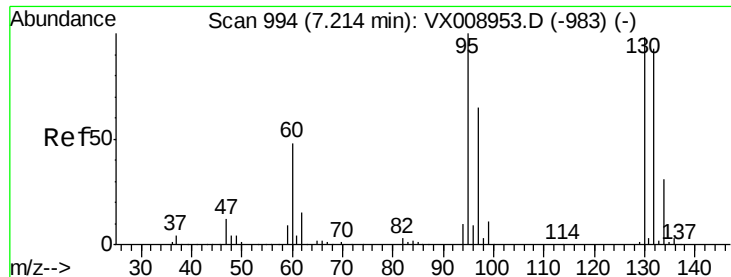
#38
 Carbon Tetrachloride
 Concen: 6.690 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Tgt Ion	117	Resp	25470
Ion Ratio	Lower	Upper	
117	100		
119	5.3	73.8	110.8#
121	0.0	23.6	35.4#



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

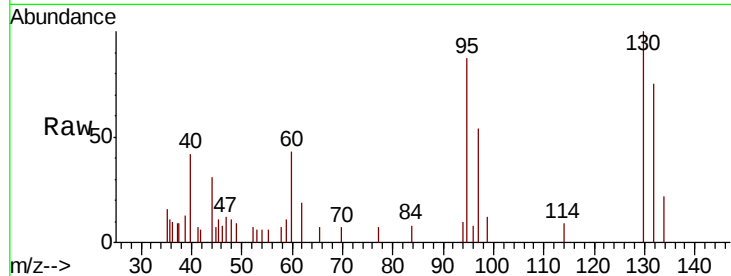




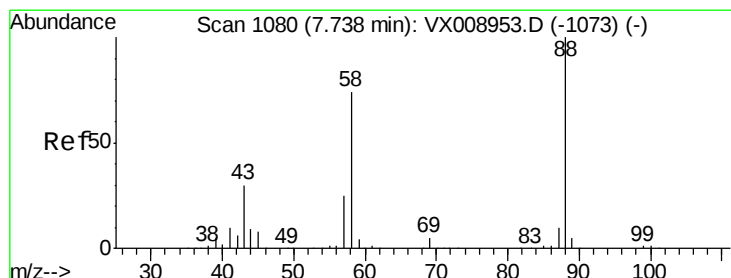
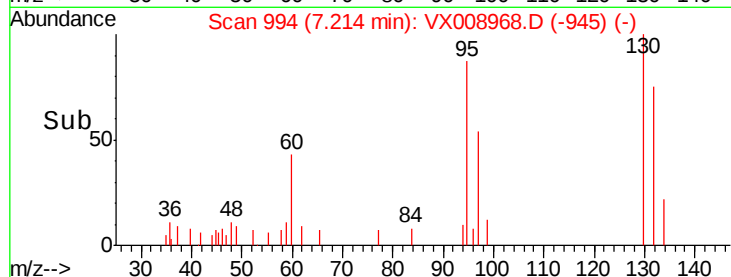
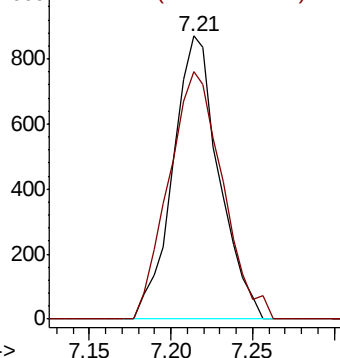
#44
 Trichloroethene
 Concen: 0.530 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW132-190411

Tot Ion:130 Resp: 1719
 Ion Ratio Lower Upper
 130 100
 95 87.4 0.0 203.2

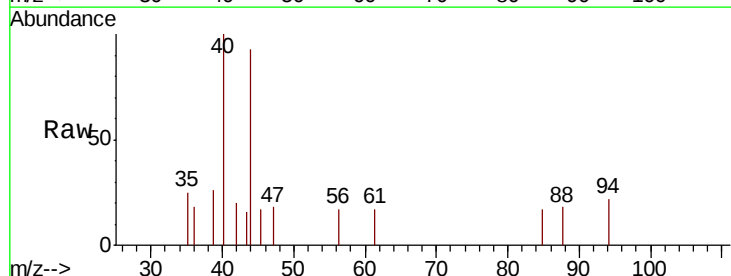


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

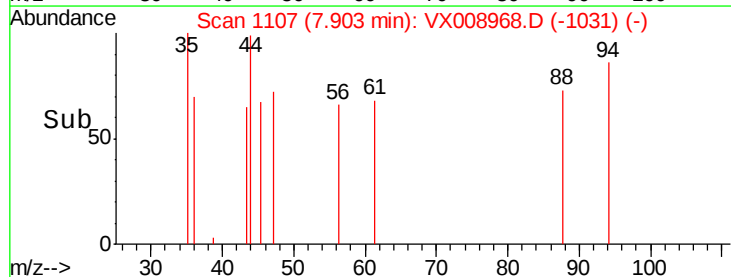
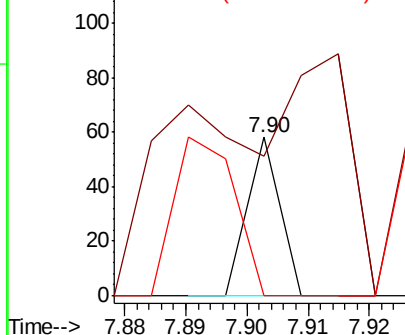


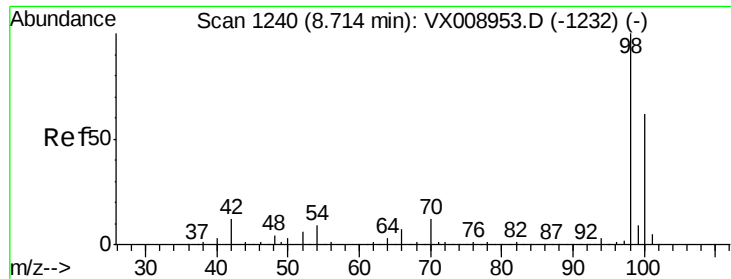
#49
 1,4-Dioxane
 Concen: 0.244 ug/l
 RT: 7.90 min Scan# 1107
 Delta R.T. 0.16 min
 Lab File: VX008968.D
 Acq: 15 Apr 2019 18:19

Tgt Ion: 88 Resp: 21
 Ion Ratio Lower Upper
 88 100
 43 52.4 29.3 43.9#
 58 190.5 62.6 93.8#



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

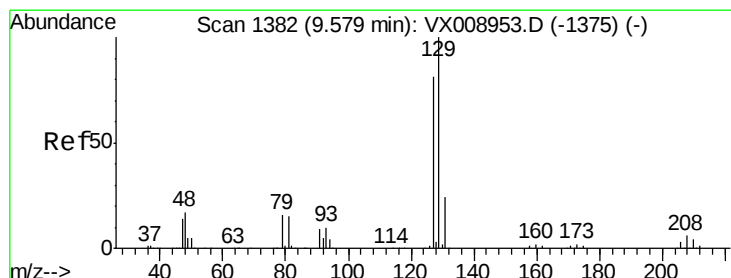
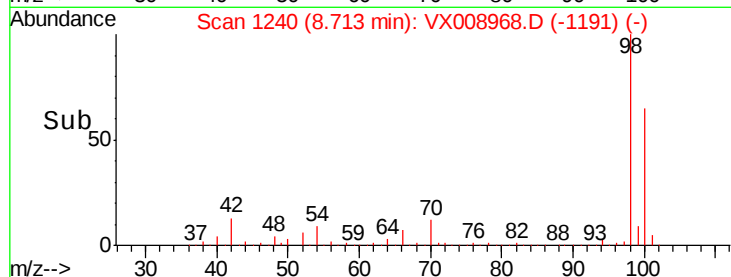
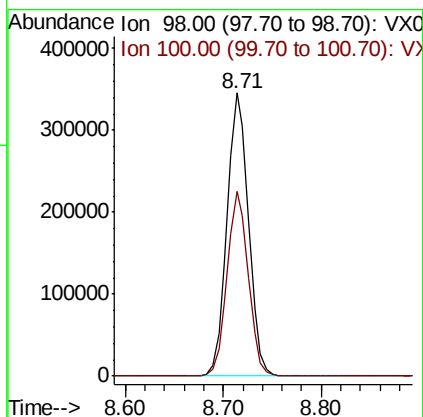
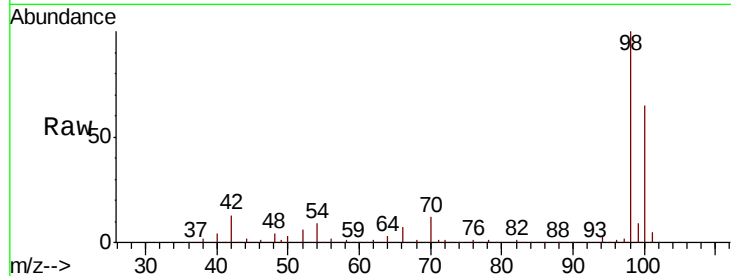




#50
Toluene-d8
Concen: 47.421 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008968.D
Acq: 15 Apr 2019 18:19

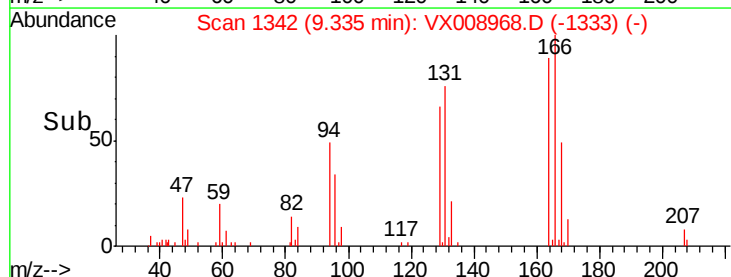
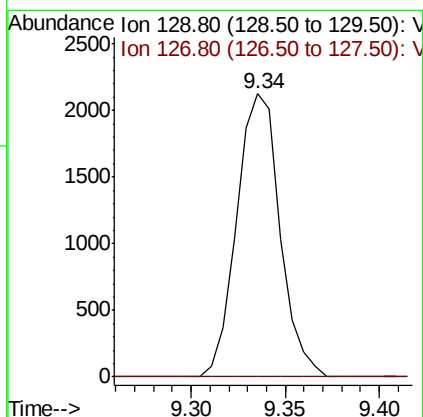
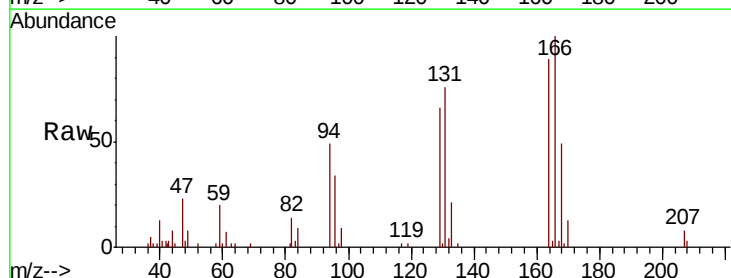
Instrument :
MSVOA_X
ClientSampleId :
SS042MW132-190411

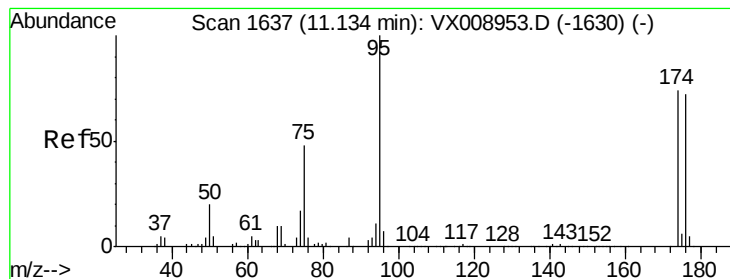
Tot Ion: 98 Resp: 527048
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2



#60
Dibromochloromethane
Concen: 1.120 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008968.D
Acq: 15 Apr 2019 18:19

Tgt Ion:129 Resp: 3377
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 43.849 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

SS042MW132-190411

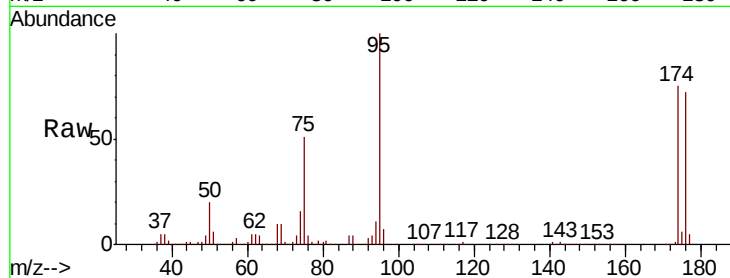
Tot Ion: 95 Resp: 172035

Ion Ratio Lower Upper

95 100

174 78.7 0.0 159.6

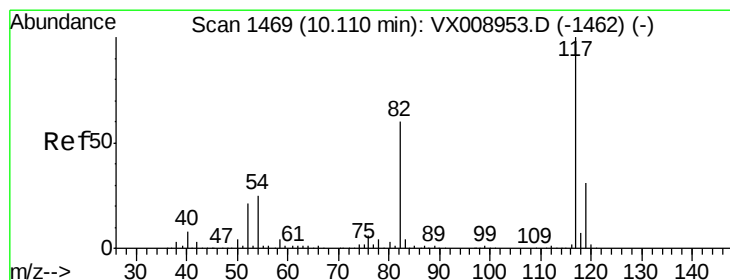
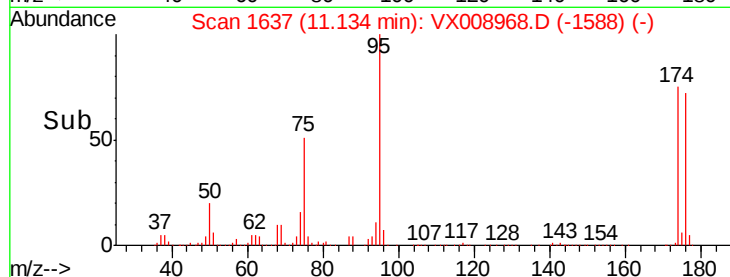
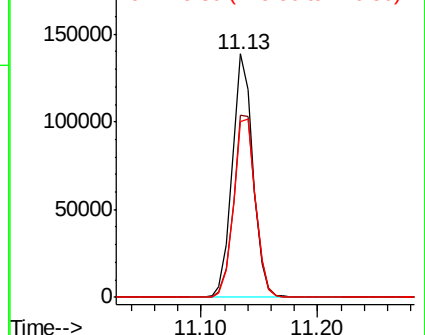
176 77.2 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

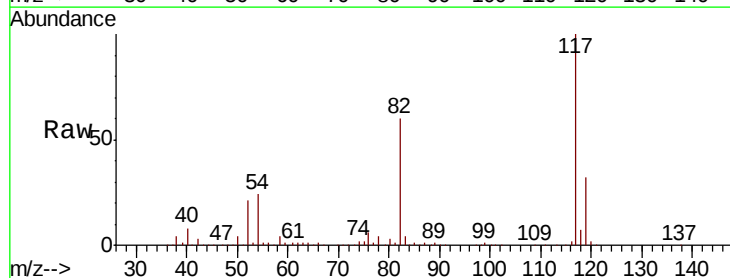
Tgt Ion: 117 Resp: 365508

Ion Ratio Lower Upper

117 100

82 60.4 48.2 72.4

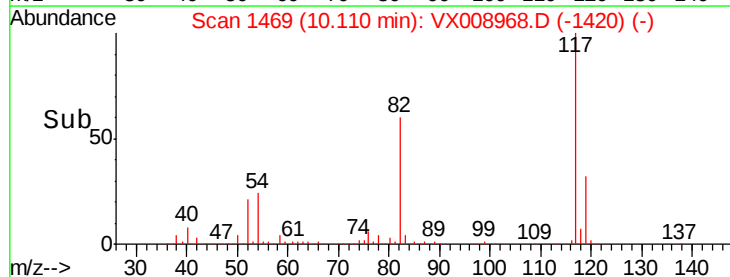
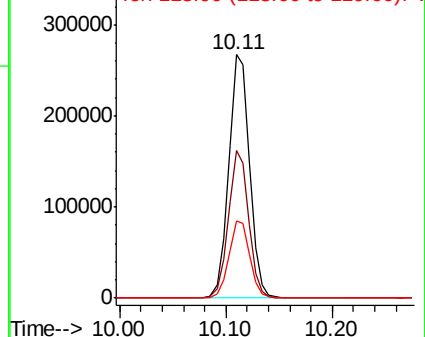
119 31.7 25.0 37.6

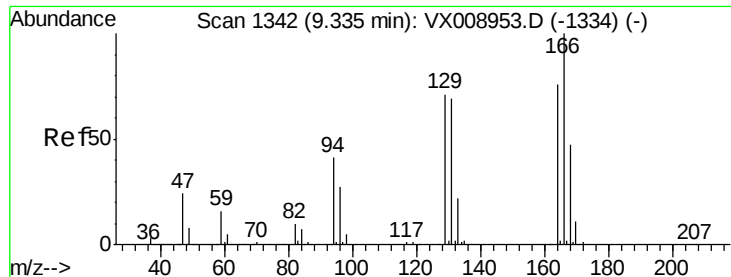


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)





#64

Tetrachloroethene

Concen: 1.351 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

SS042MW132-190411

Tot Ion:164 Resp: 3750

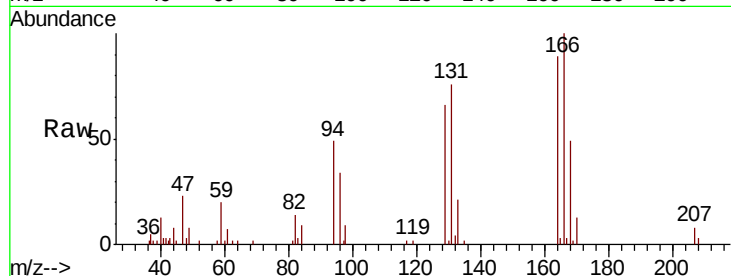
Ion Ratio Lower Upper

164 100

166 112.3 105.0 157.4

129 73.7 74.2 111.4#

131 84.9 72.2 108.2

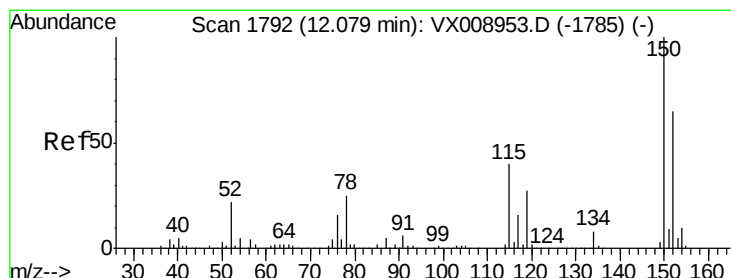
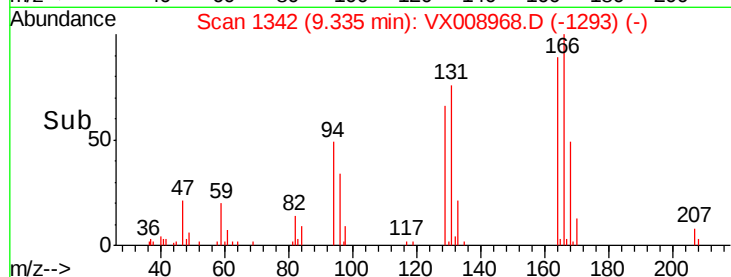
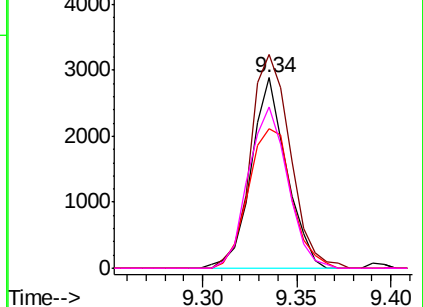


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX008968.D

Acq: 15 Apr 2019 18:19

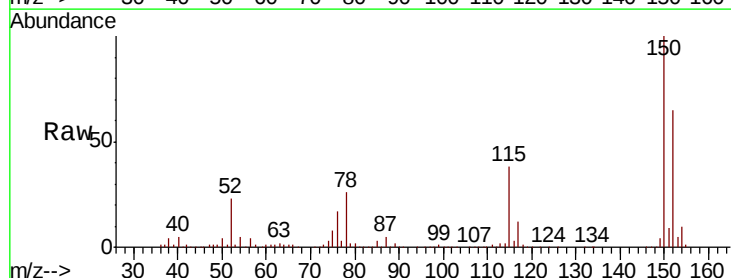
Tgt Ion:152 Resp: 150923

Ion Ratio Lower Upper

152 100

115 59.7 41.4 124.2

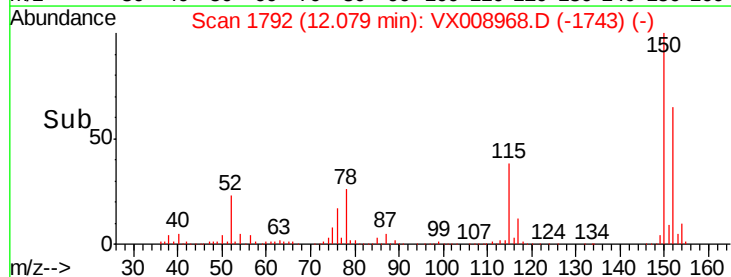
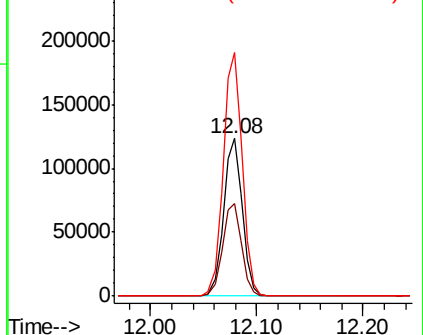
150 157.2 0.0 349.8

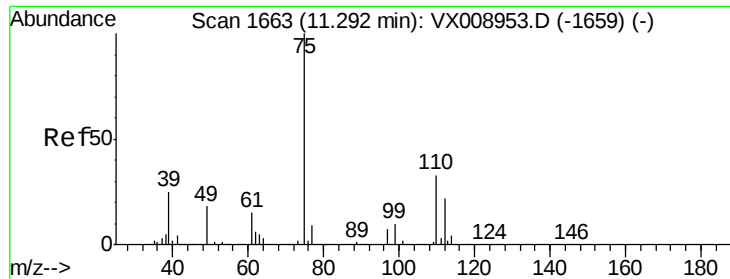


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.602 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

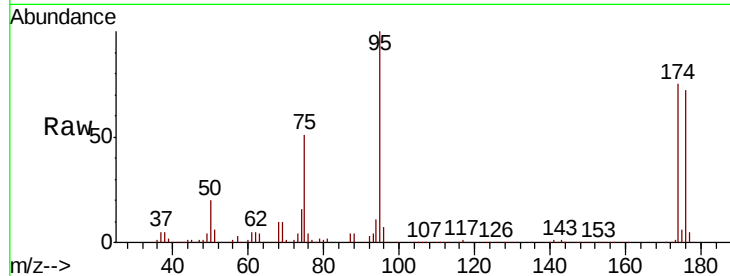
SS042MW132-190411

Tot Ion: 75 Resp: 86980

Ion Ratio Lower Upper

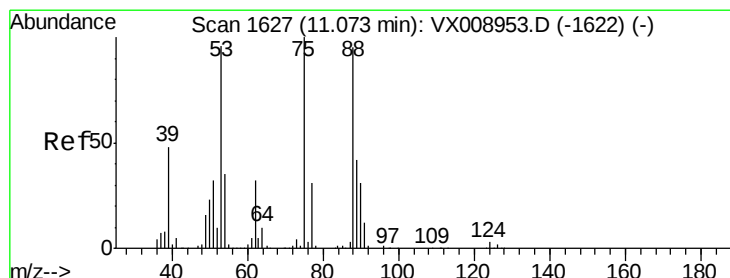
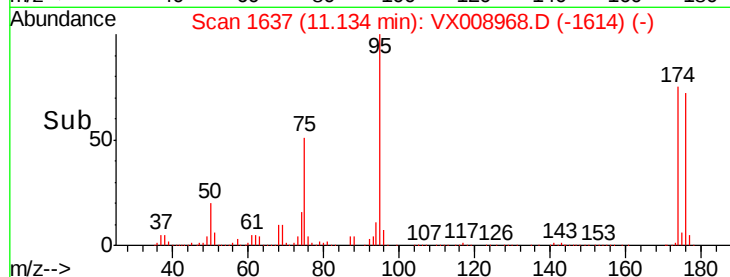
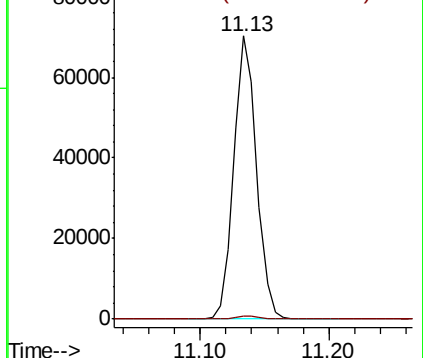
75 100

77 1.1 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: 60.594 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008968.D

Acq: 15 Apr 2019 18:19

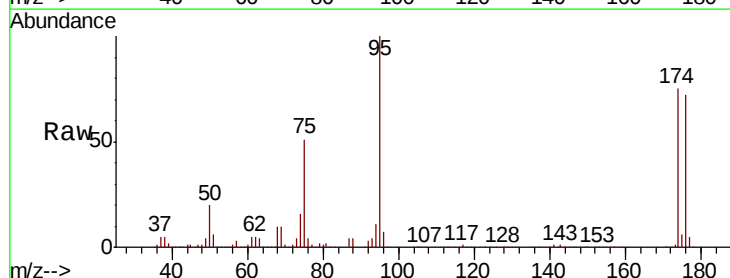
Tgt Ion: 75 Resp: 86980

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 36.0 54.0#



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

