

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041819\
 Data File : VX009036.D
 Acq On : 18 Apr 2019 12:14
 Operator : JC/SP
 Sample : K2387-03DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410DL

Quant Time: Apr 19 01:35:43 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	251660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	402364	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	341897	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144049	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	163708	46.16	ug/l	0.00
Spiked Amount			Recovery	=	92.32%	
35) Dibromofluoromethane	5.50	113	121268	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	8.71	98	500021	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
62) 4-Bromofluorobenzene	11.13	95	164609	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

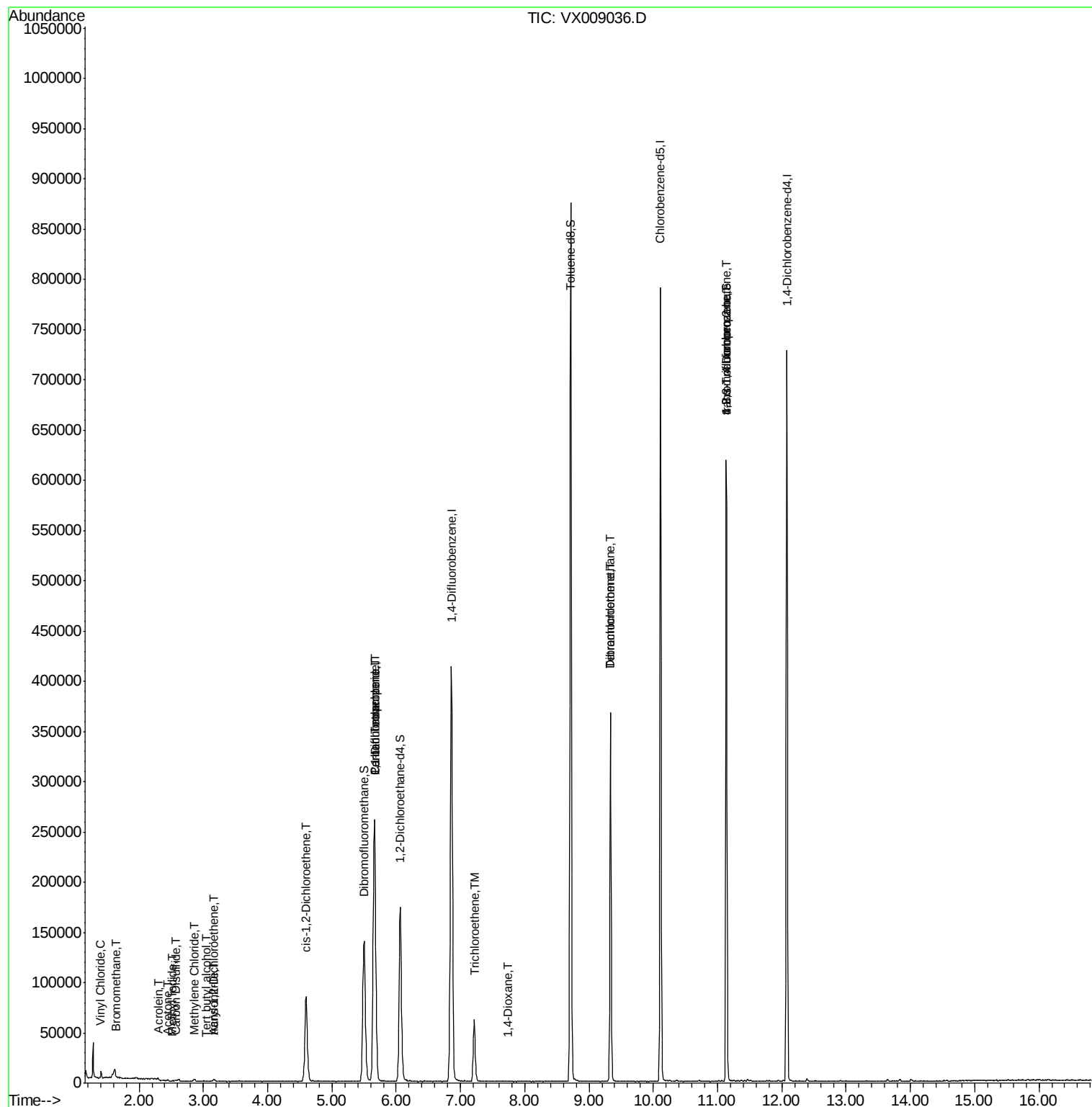
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	4880	1.409	ug/l	98
5) Bromomethane	1.64	94	464	4.046	ug/l #	73
10) Methyl Iodide	2.51	142	602	4.609	ug/l #	89
11) Tert butyl alcohol	3.04	59	199	0.253	ug/l #	72
13) Acrolein	2.29	56	294	0.432	ug/l #	5
15) Acrylonitrile	3.15	53	670	0.335	ug/l #	83
16) Acetone	2.45	43	1279	0.695	ug/l	92
17) Carbon Disulfide	2.57	76	1533	1.441	ug/l	98
20) Methylene Chloride	2.86	84	816	0.259	ug/l #	61
21) trans-1,2-Dichloroethene	3.17	96	579	0.201	ug/l #	81
27) cis-1,2-Dichloroethene	4.60	96	52476	16.056	ug/l	90
28) Bromochloromethane	5.00	49	116	Below Cal	#	21
36) 1,1-Dichloropropene	5.66	75	20662	4.965	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23724	6.725	ug/l #	18
44) Trichloroethene	7.21	130	23406	7.782	ug/l	94
49) 1,4-Dioxane	7.74	88	27	0.338	ug/l #	1
60) Dibromochloromethane	9.34	129	67180	24.039	ug/l #	10
64) Tetrachloroethene	9.34	164	71091	27.371	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	83850	23.839	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	83850	61.201	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: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

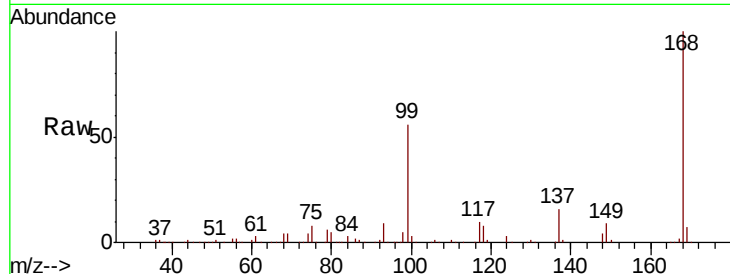
SS040MW318-190410DL

Tot Ion:168 Resp: 251660

Ion Ratio Lower Upper

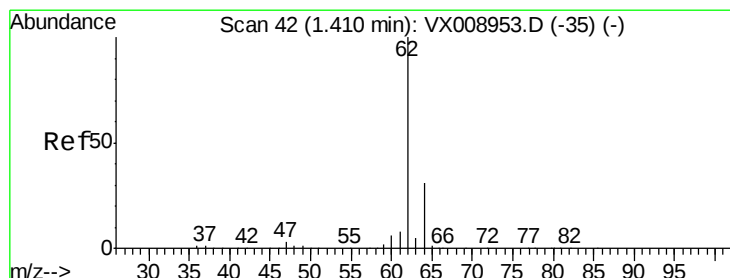
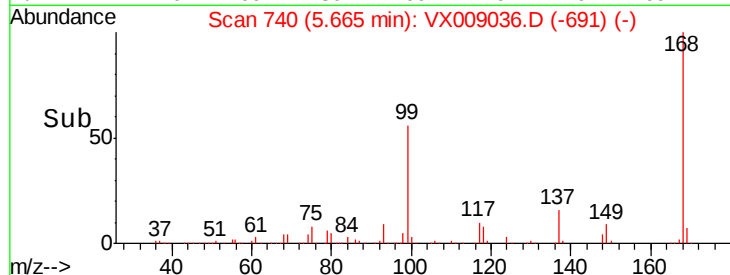
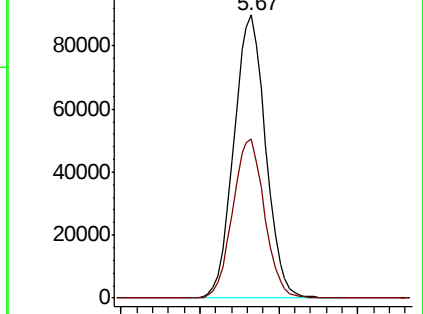
168 100

99 56.0 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: 1.409 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009036.D

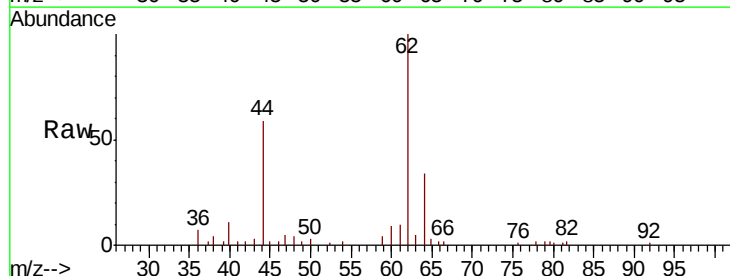
Acq: 18 Apr 2019 12:14

Tgt Ion: 62 Resp: 4880

Ion Ratio Lower Upper

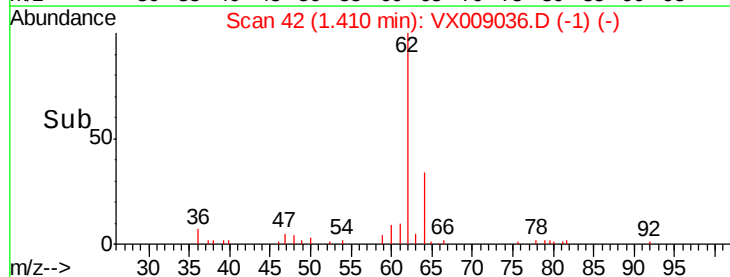
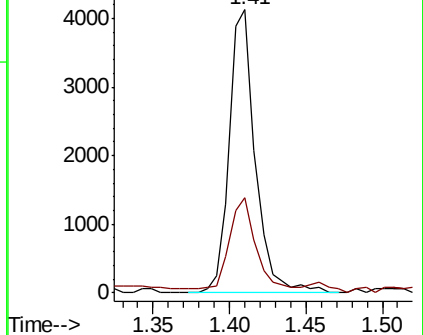
62 100

64 32.3 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: 4.046 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

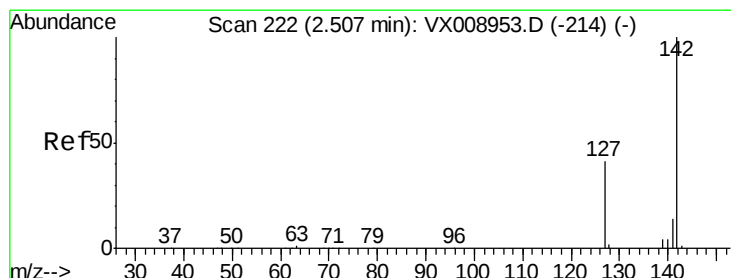
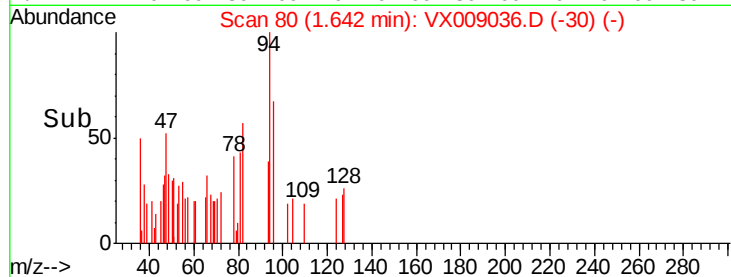
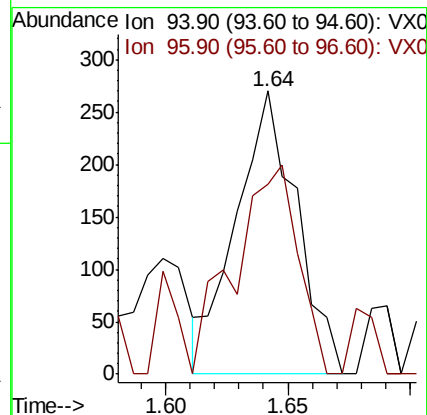
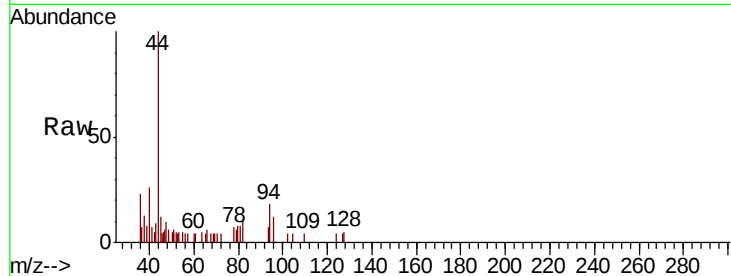
SS040MW318-190410DL

Tot Ion: 94 Resp: 464

Ion Ratio Lower Upper

94 100

96 67.0 73.9 110.9#



#10

Methyl Iodide

Concen: 4.609 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

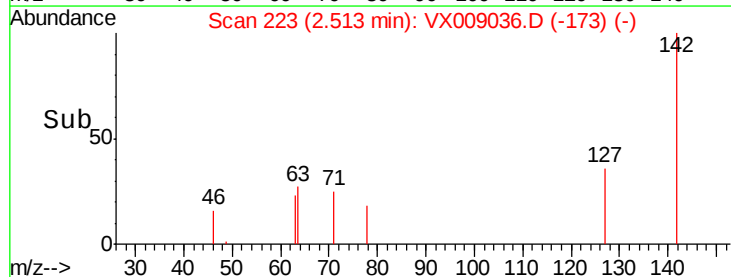
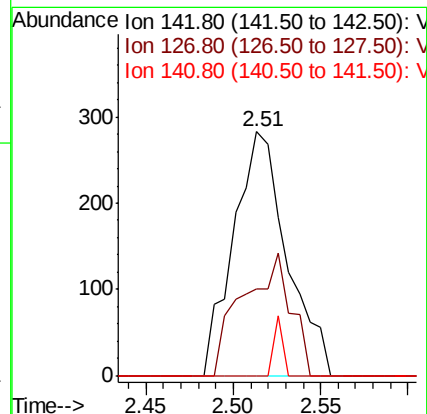
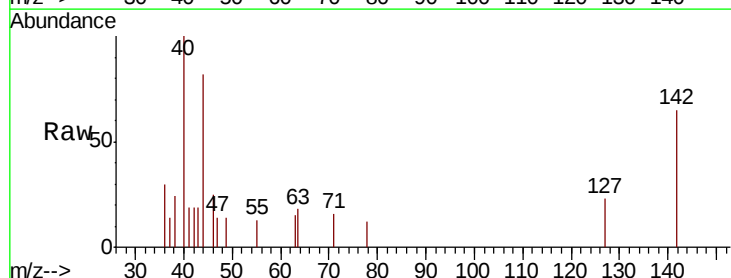
Tgt Ion: 142 Resp: 602

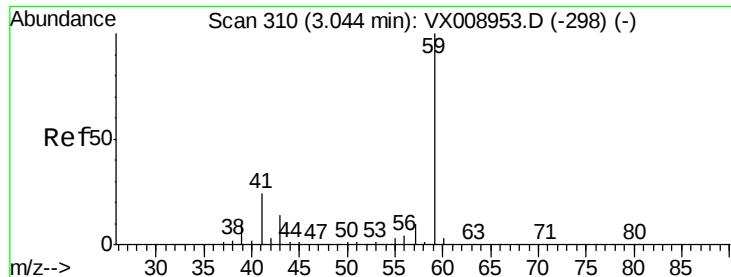
Ion Ratio Lower Upper

142 100

127 44.9 32.8 49.2

141 4.2 11.4 17.2#



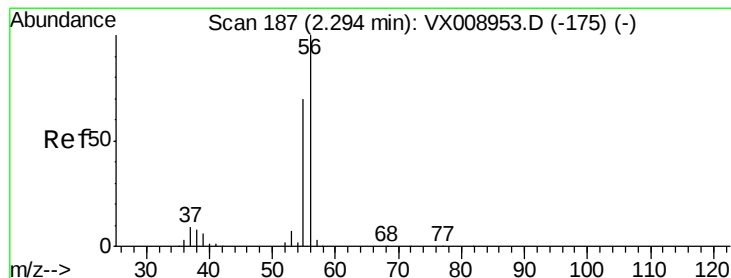
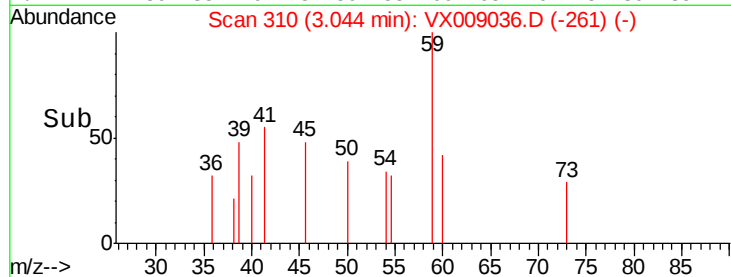
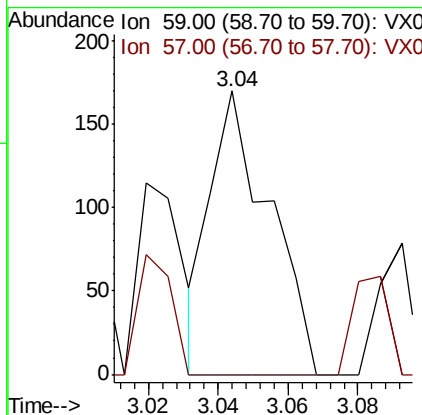
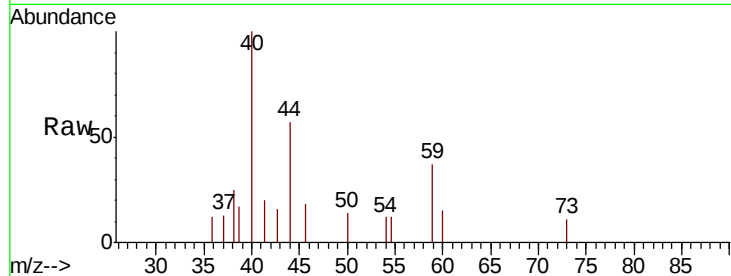


#11

Tert butyl alcohol
 Concen: 0.253 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.00 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410DL

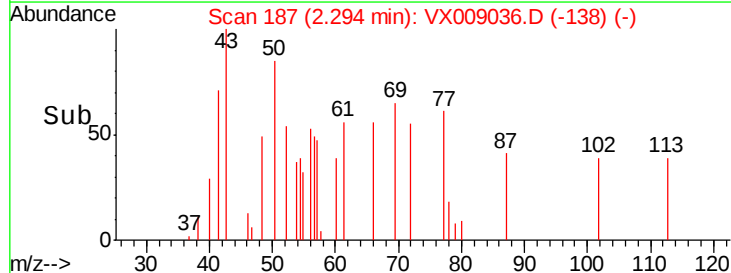
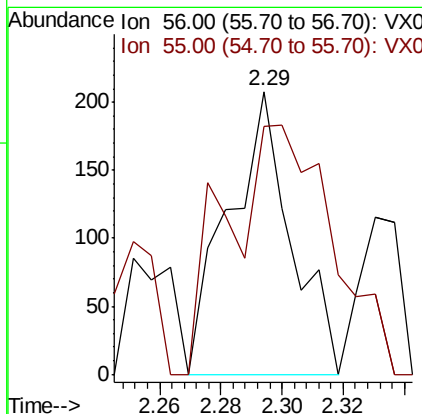
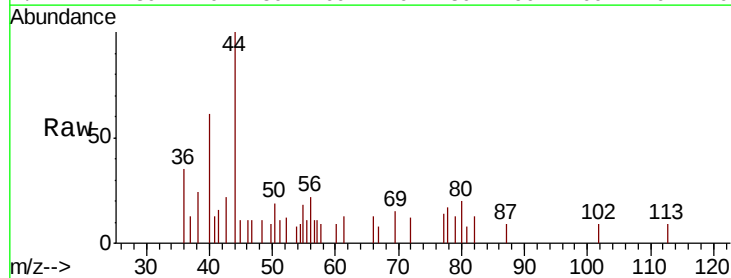
Tot Ion: 59 Resp: 199
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

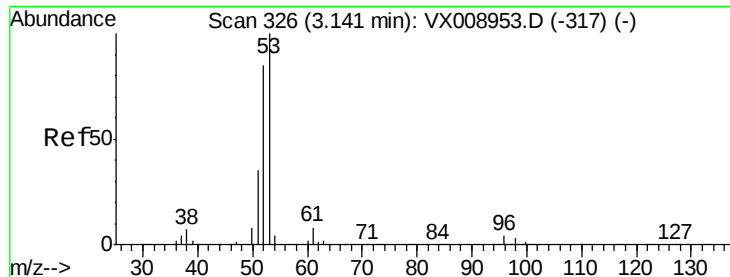


#13

Acrolein
 Concen: 0.432 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

Tgt Ion: 56 Resp: 294
 Ion Ratio Lower Upper
 56 100
 55 149.3 56.6 84.8#





#15

Acrylonitrile

Concen: 0.335 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleID :

SS040MW318-190410DL

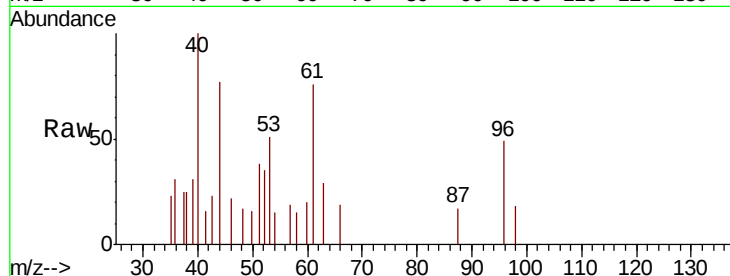
Tot Ion: 53 Resp: 670

Ion Ratio Lower Upper

53 100

52 76.7 66.6 100.0

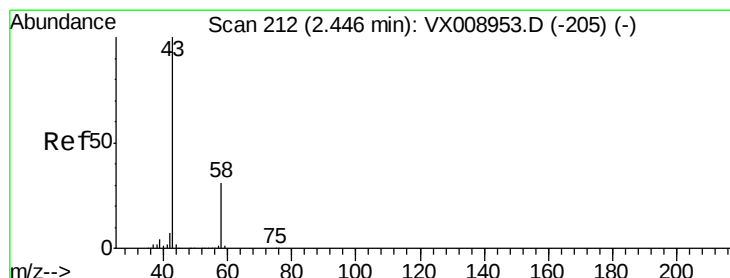
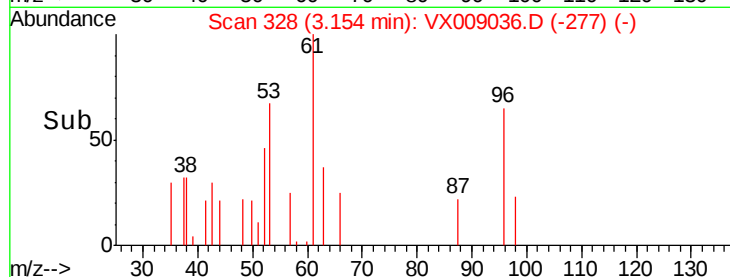
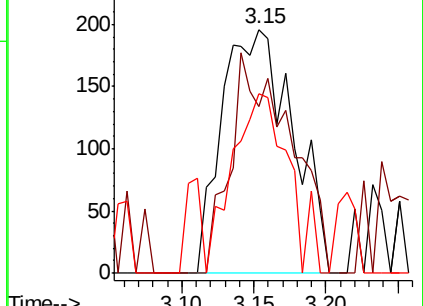
51 58.4 28.3 42.5#



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: 0.695 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009036.D

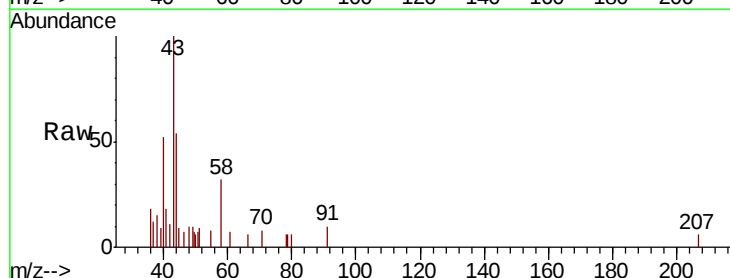
Acq: 18 Apr 2019 12:14

Tgt Ion: 43 Resp: 1279

Ion Ratio Lower Upper

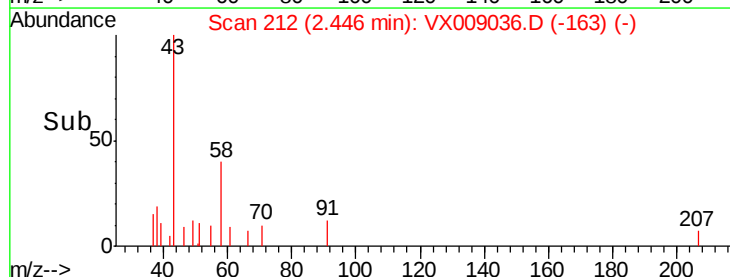
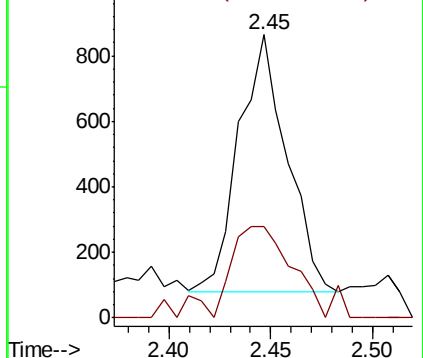
43 100

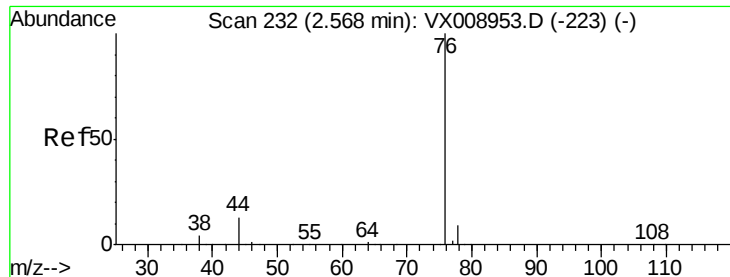
58 26.8 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.441 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

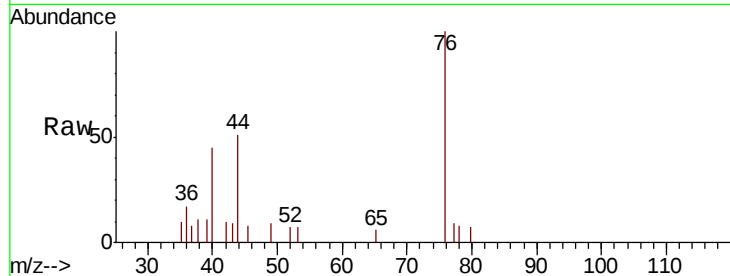
SS040MW318-190410DL

Tot Ion: 76 Resp: 1533

Ion Ratio Lower Upper

76 100

78 8.3 7.2 10.8

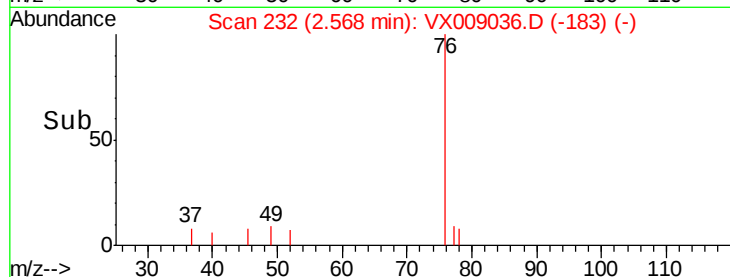


Abundance Ion 75.90 (75.60 to 76.60): VX0

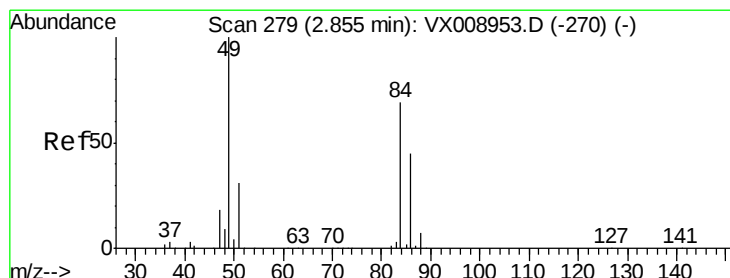
Ion 77.90 (77.60 to 78.60): VX0

Time-->

2.57



Time-->



#20

Methylene Chloride

Concen: 0.259 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Tgt Ion: 84 Resp: 816

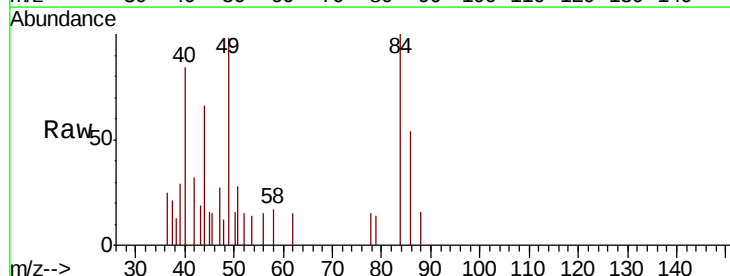
Ion Ratio Lower Upper

84 100

49 84.9 115.4 173.0#

51 15.5 35.8 53.6#

86 54.1 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VX0

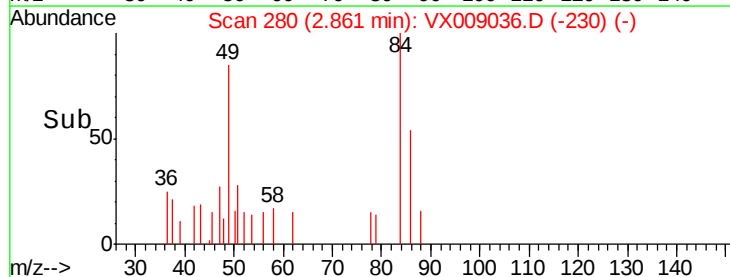
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

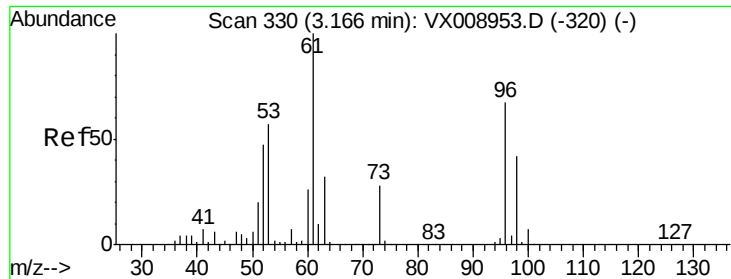
Ion 85.90 (85.60 to 86.60): VX0

Time-->

2.86



Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.201 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

SS040MW318-190410DL

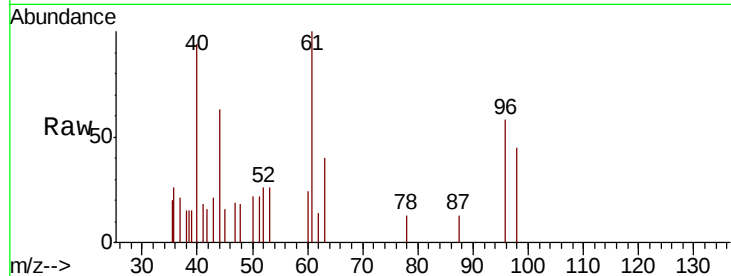
Tot Ion: 96 Resp: 579

Ion Ratio Lower Upper

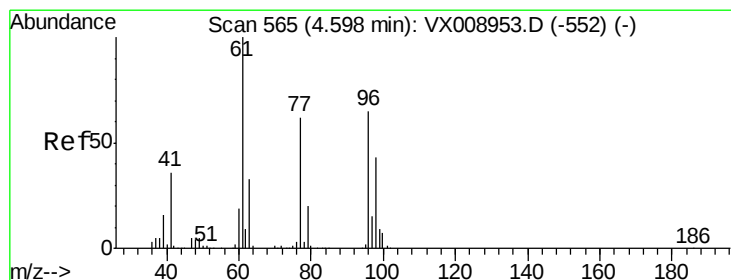
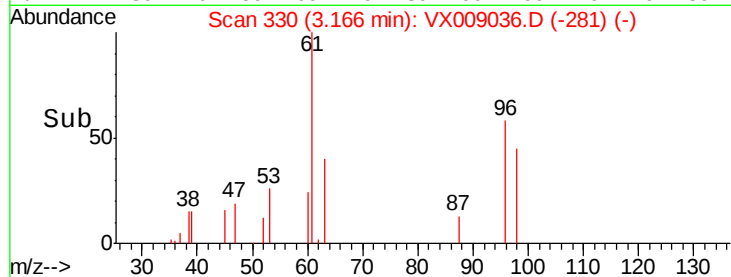
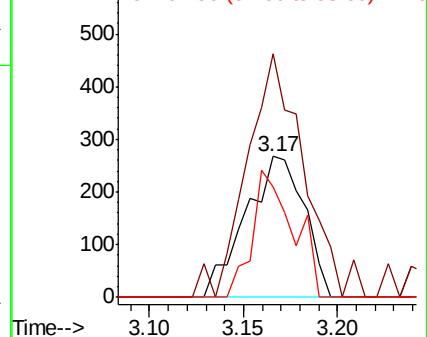
96 100

61 173.0 120.3 180.5

98 78.7 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



#27

cis-1,2-Dichloroethene

Concen: 16.056 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

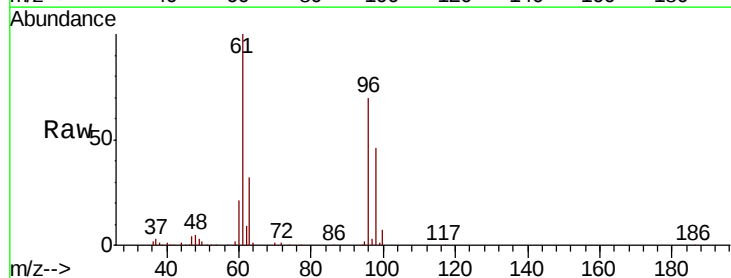
Tgt Ion: 96 Resp: 52476

Ion Ratio Lower Upper

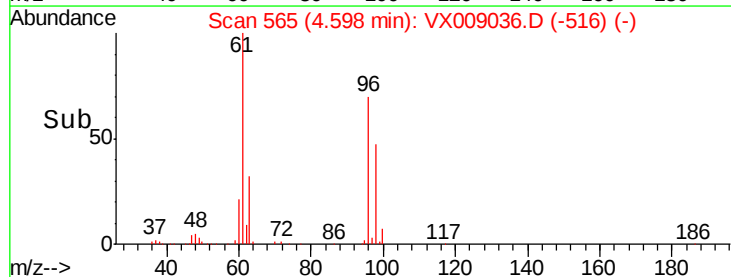
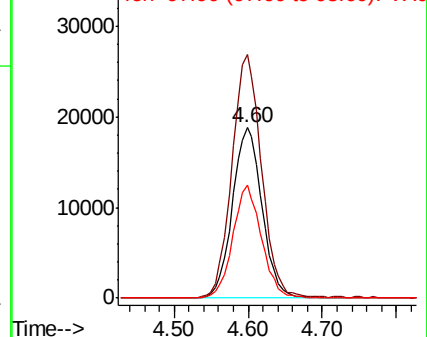
96 100

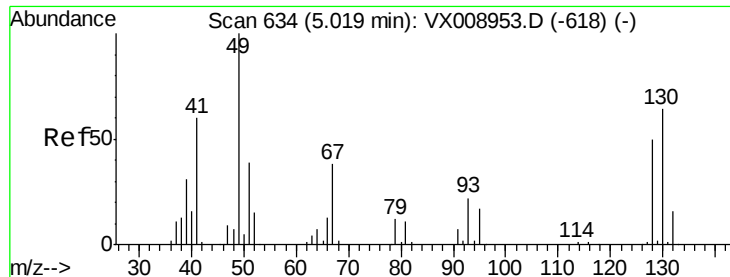
61 142.6 0.0 322.0

98 63.9 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: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

SS040MW318-190410DL

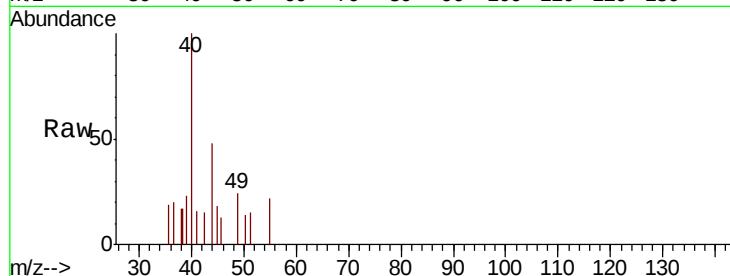
Tot Ion: 49 Resp: 116

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

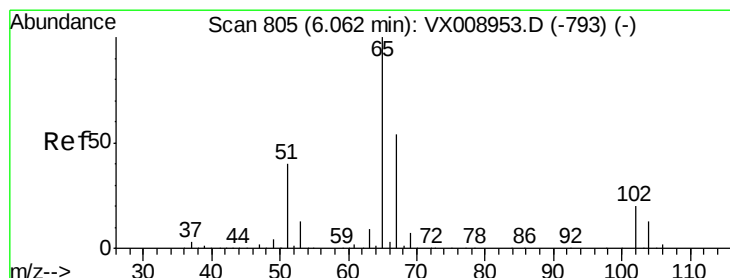
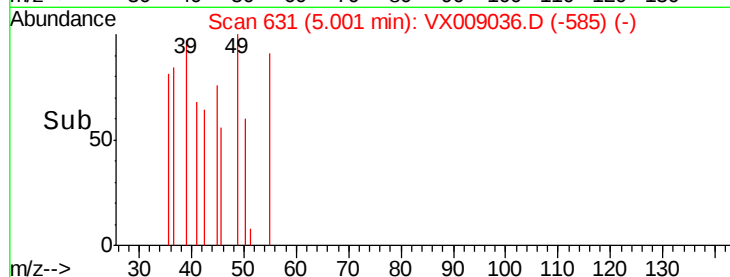
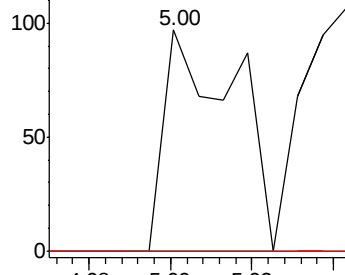
130 0.0 50.4 75.6#



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



#33

1,2-Dichloroethane-d4

Concen: 46.159 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009036.D

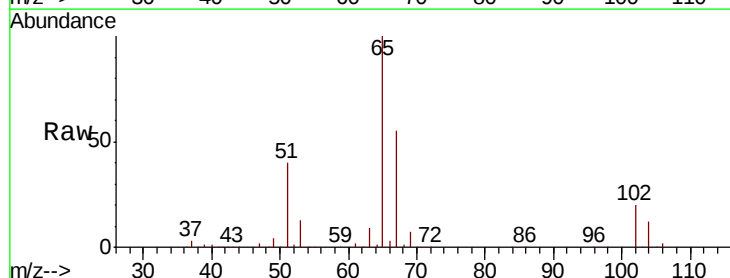
Acq: 18 Apr 2019 12:14

Tgt Ion: 65 Resp: 163708

Ion Ratio Lower Upper

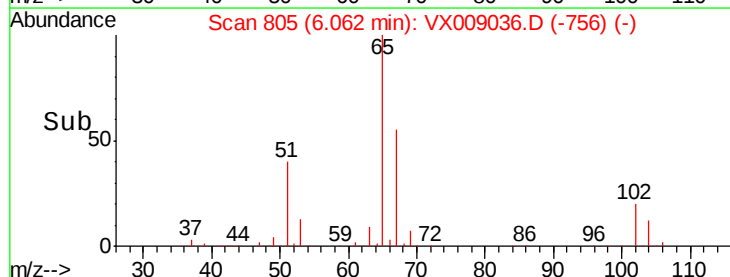
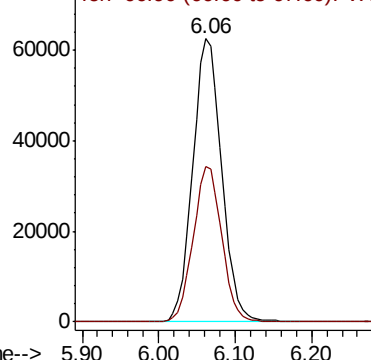
65 100

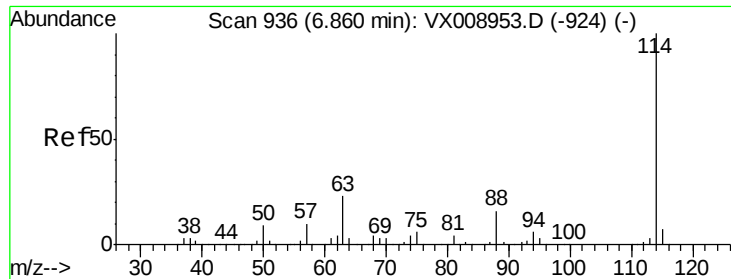
67 54.3 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

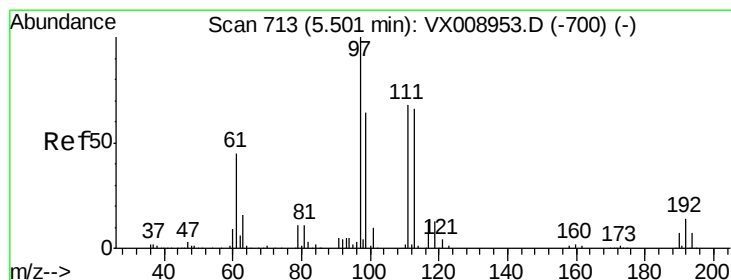
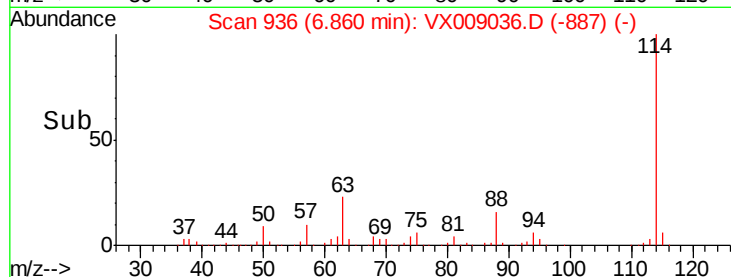
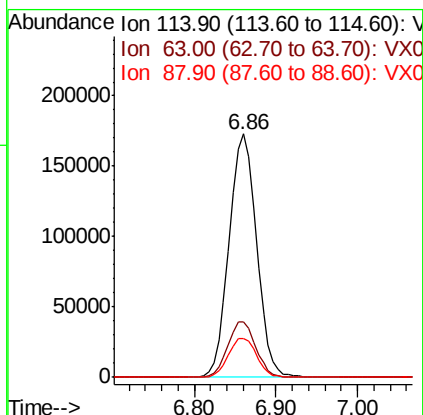
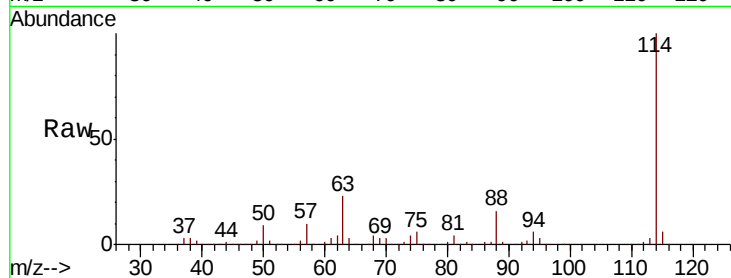




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

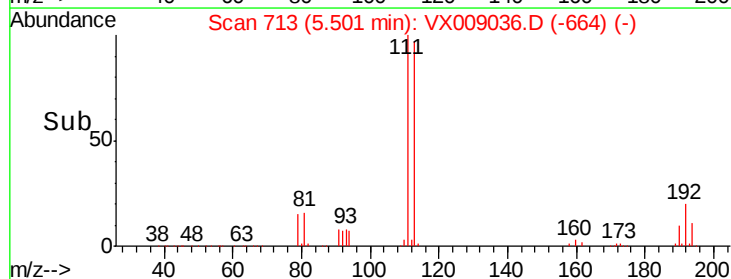
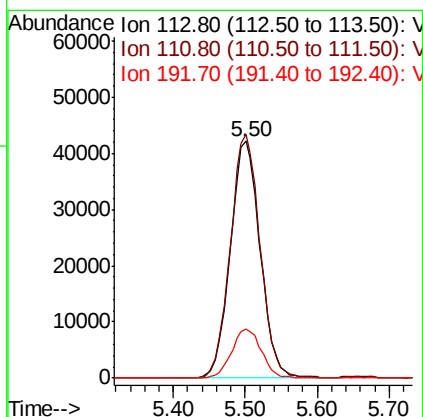
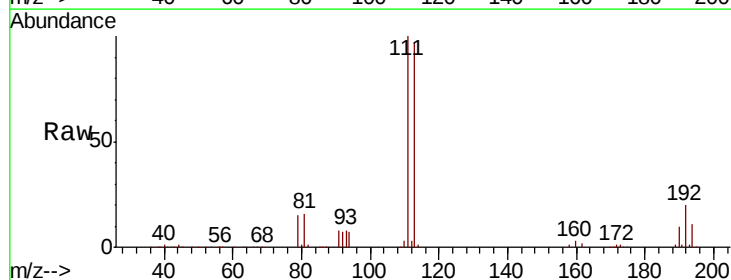
Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410DL

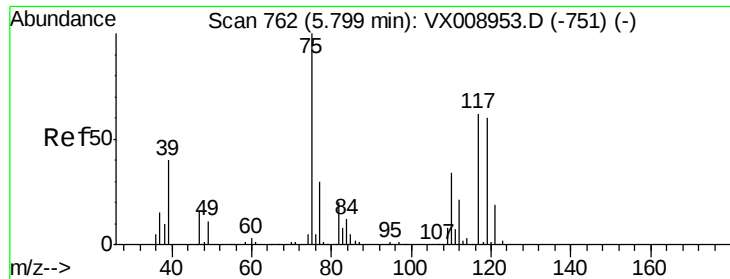
Tot Ion:114 Resp: 402364
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 46.0
 88 16.1 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 46.962 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

Tgt Ion:113 Resp: 121268
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.9 124.3
 192 20.6 17.4 26.0

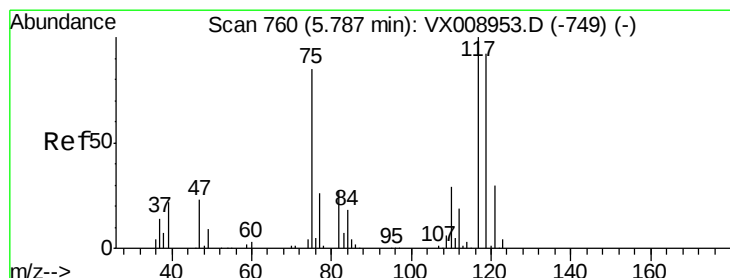
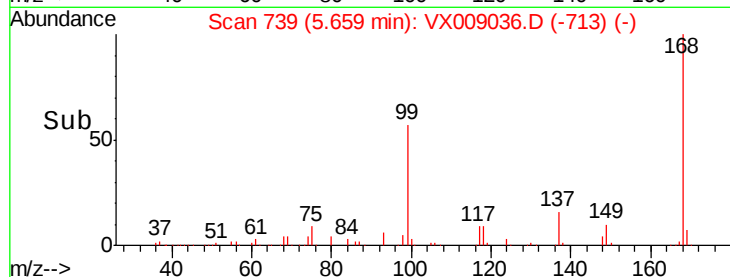
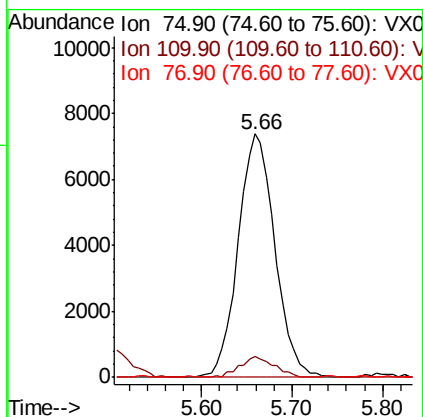
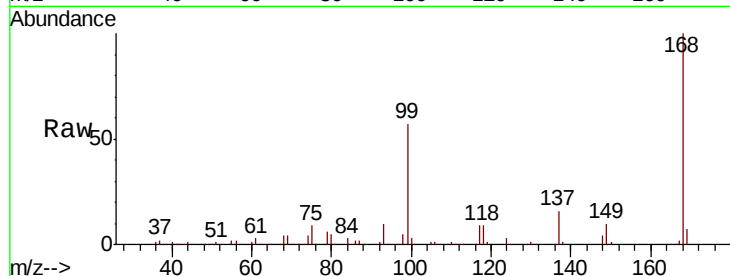




#36
 1,1-Dichloropropene
 Concen: 4.965 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

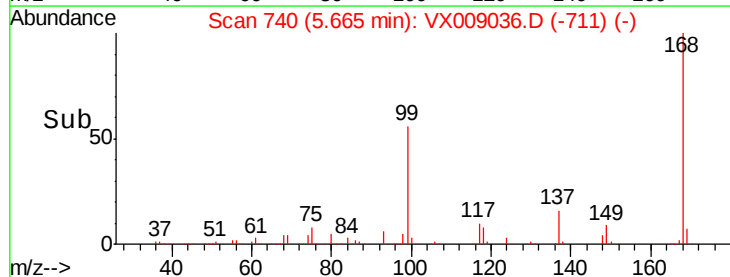
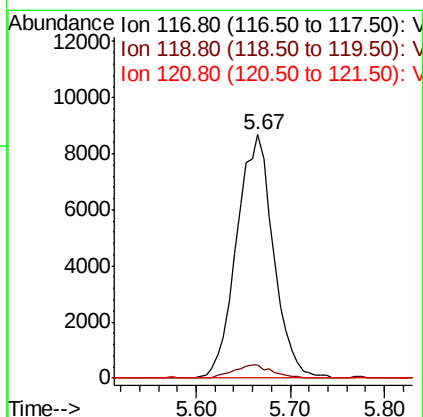
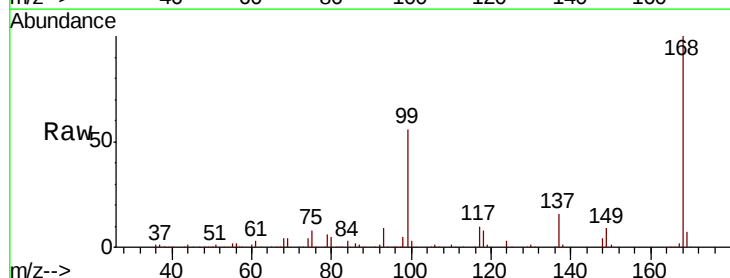
Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410DL

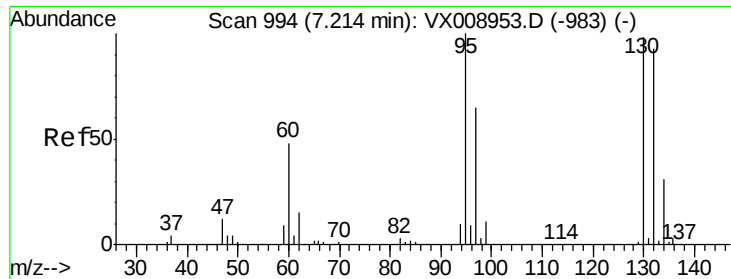
Tot Ion: 75 Resp: 20662
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.9 50.7#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.725 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

Tgt Ion: 117 Resp: 23724
 Ion Ratio Lower Upper
 117 100
 119 5.2 73.8 110.8#
 121 0.0 23.6 35.4#





#44

Trichloroethene

Concen: 7.782 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

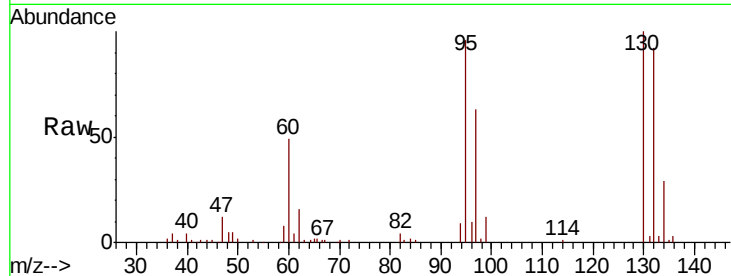
SS040MW318-190410DL

Tot Ion:130 Resp: 23406

Ion Ratio Lower Upper

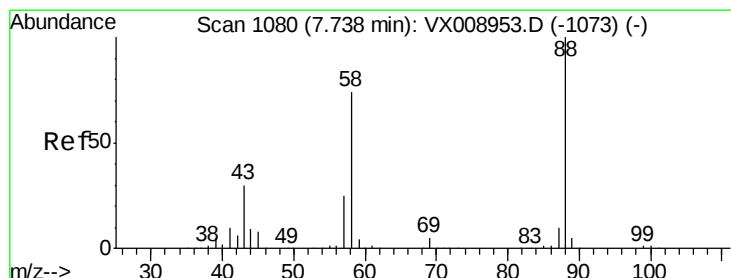
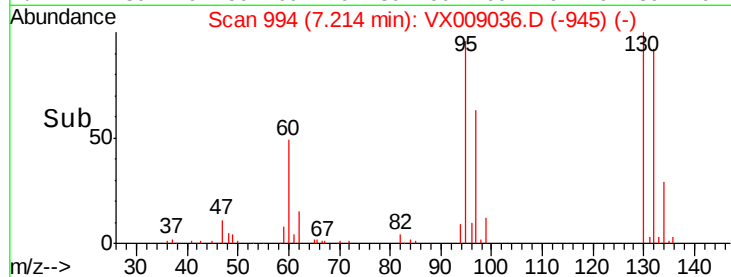
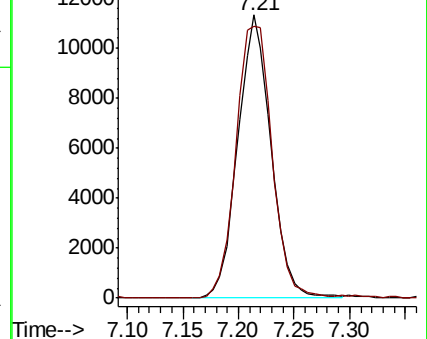
130 100

95 95.9 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: 0.338 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

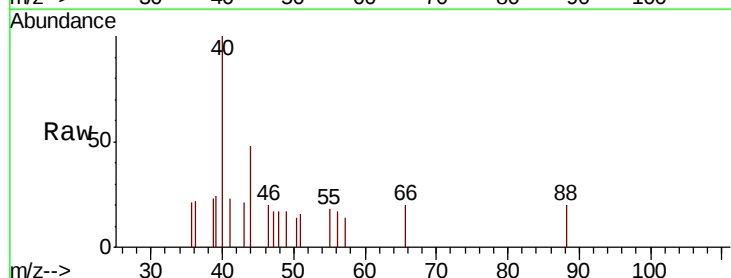
Tgt Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 107.4 29.3 43.9#

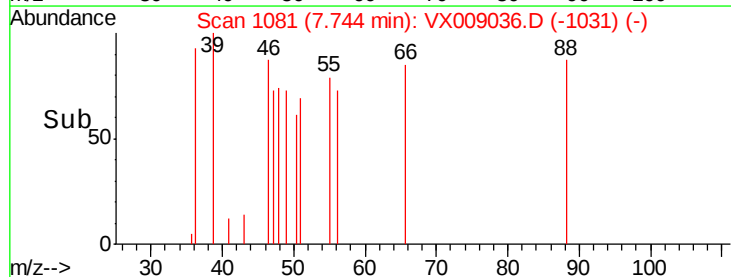
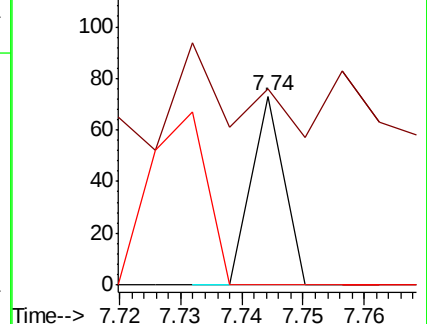
58 163.0 62.6 93.8#

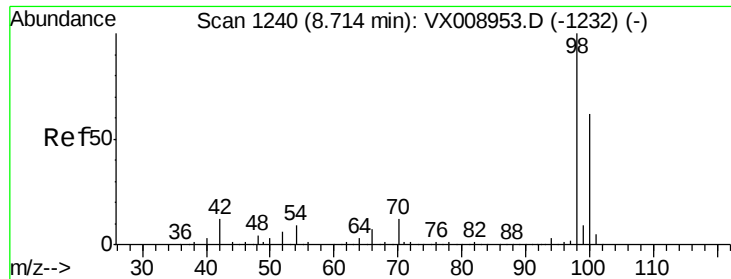


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

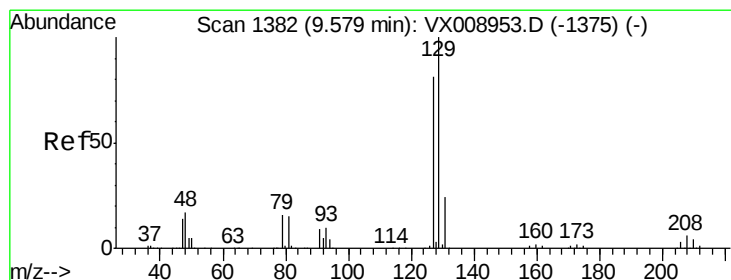
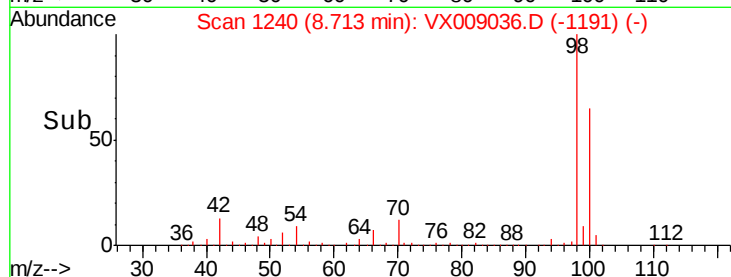
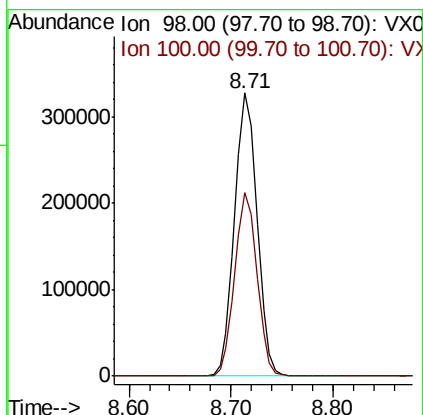
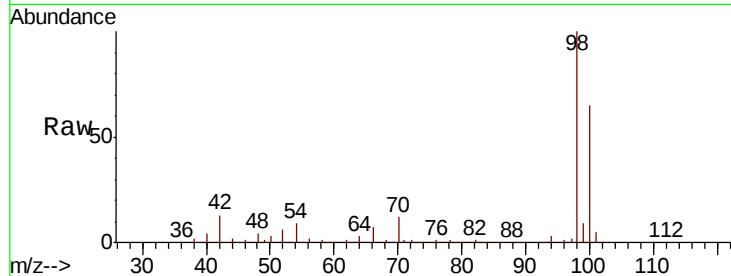




#50
Toluene-d8
Concen: 48.554 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009036.D
Acq: 18 Apr 2019 12:14

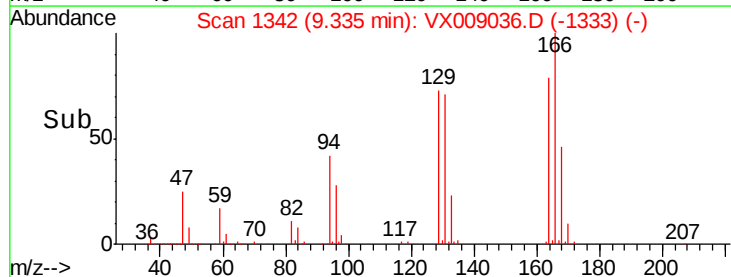
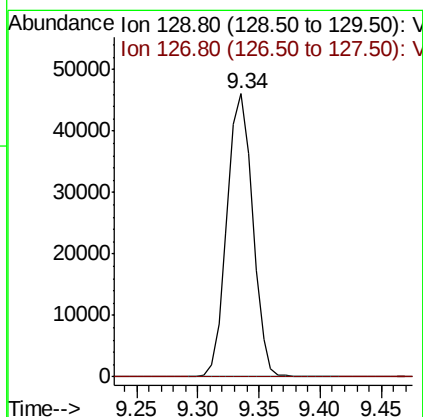
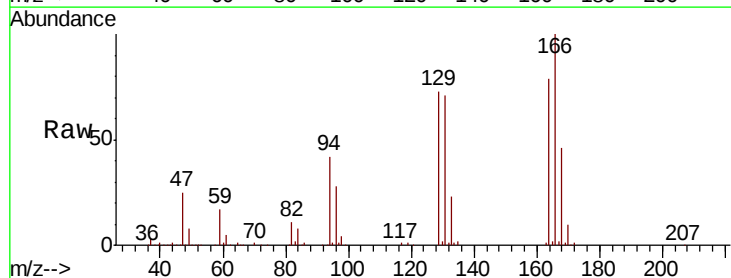
Instrument :
MSVOA_X
ClientSampleId :
SS040MW318-190410DL

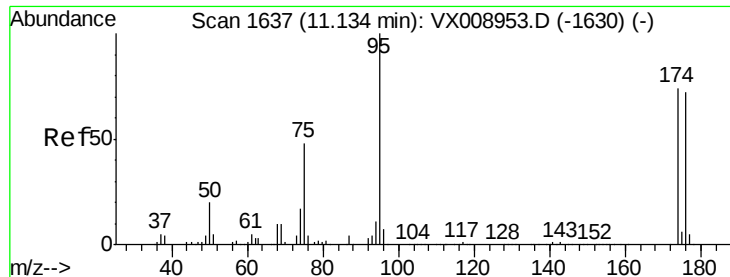
Tot Ion: 98 Resp: 500021
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.2



#60
Dibromochloromethane
Concen: 24.039 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX009036.D
Acq: 18 Apr 2019 12:14

Tgt Ion:129 Resp: 67180
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 45.281 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

SS040MW318-190410DL

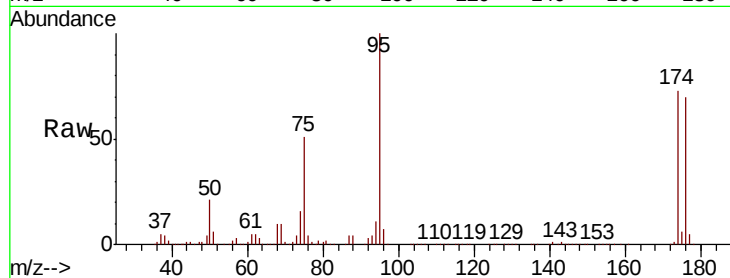
Tot Ion: 95 Resp: 164609

Ion Ratio Lower Upper

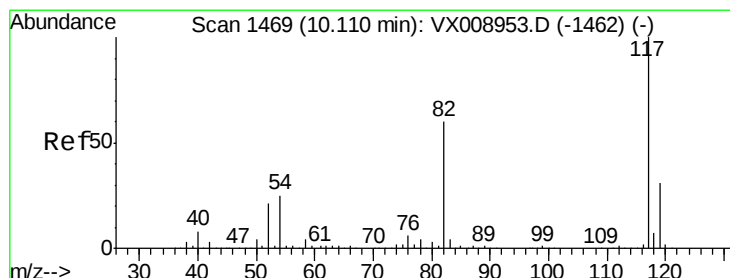
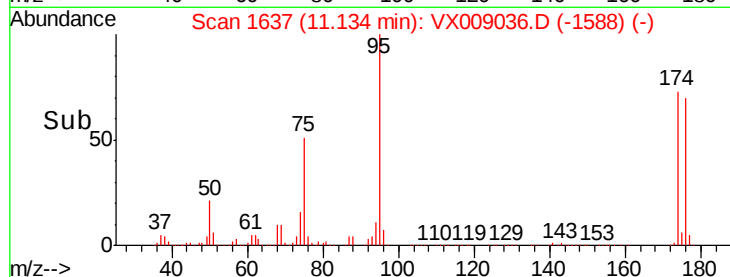
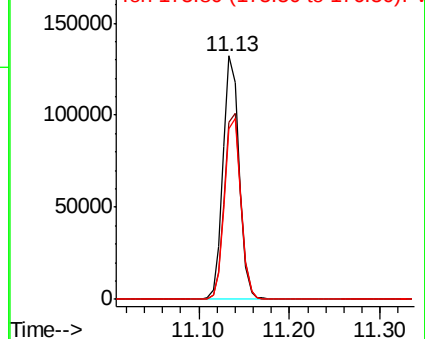
95 100

174 78.6 0.0 159.6

176 75.8 0.0 154.8



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

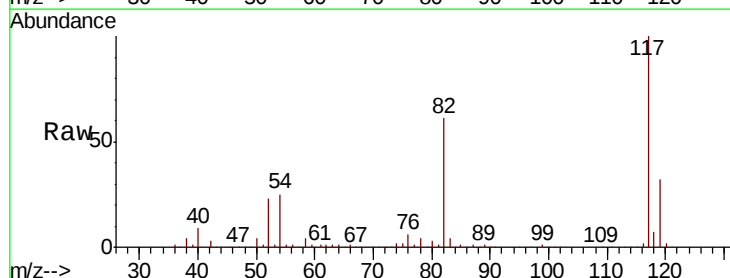
Tgt Ion: 117 Resp: 341897

Ion Ratio Lower Upper

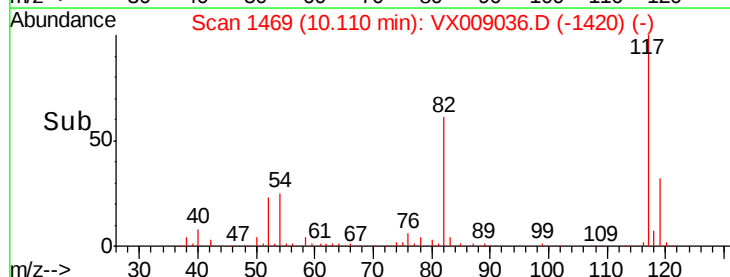
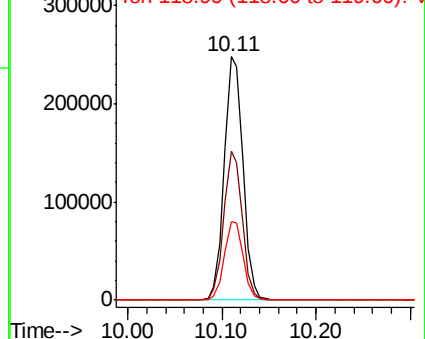
117 100

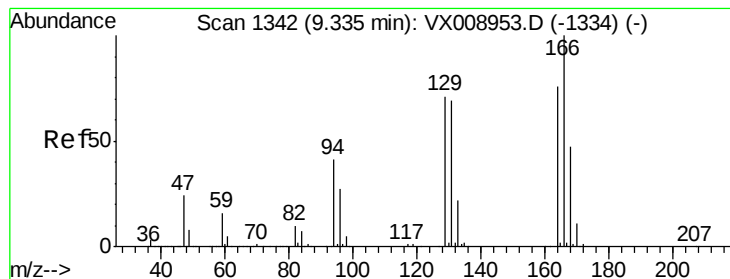
82 61.3 48.2 72.4

119 32.4 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: 27.371 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009036.D

Acq: 18 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

SS040MW318-190410DL

Tot Ion:164 Resp: 71091

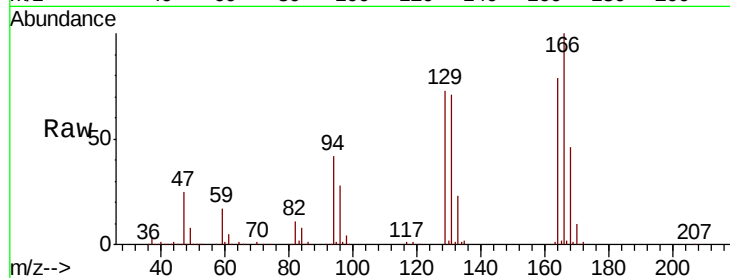
Ion Ratio Lower Upper

164 100

166 126.3 105.0 157.4

129 92.0 74.2 111.4

131 89.8 72.2 108.2



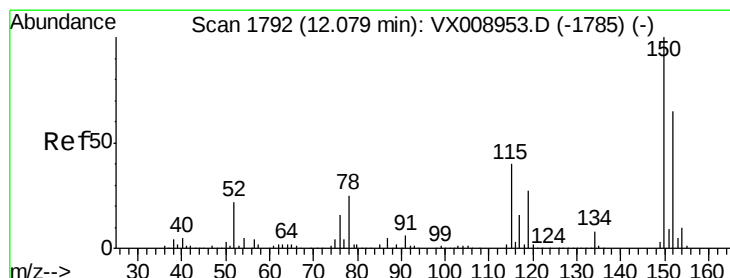
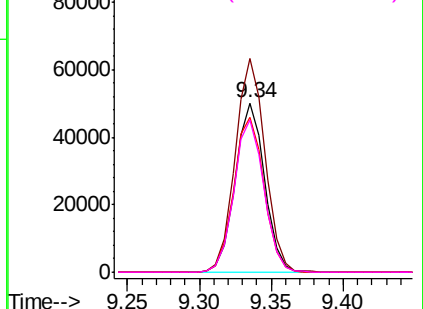
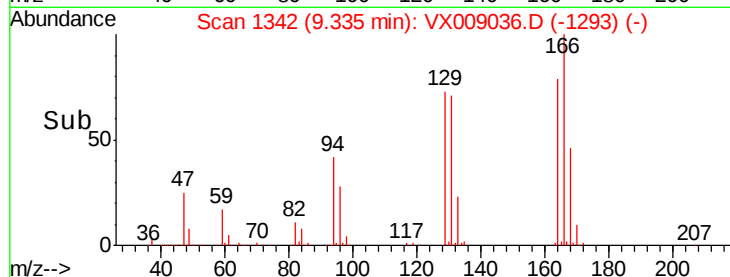
Abundance

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: VX009036.D

Acq: 18 Apr 2019 12:14

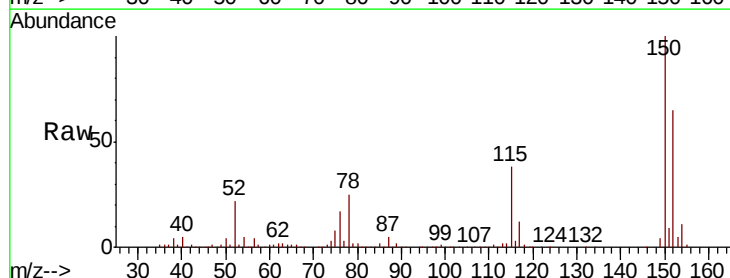
Tgt Ion:152 Resp: 144049

Ion Ratio Lower Upper

152 100

115 59.3 41.4 124.2

150 155.8 0.0 349.8

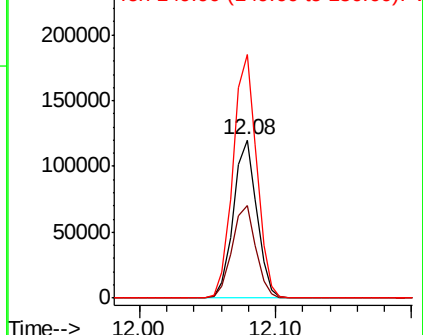
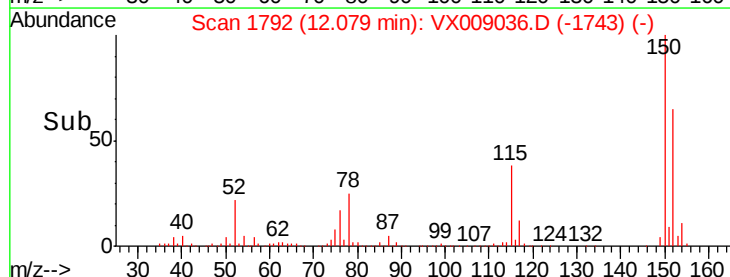


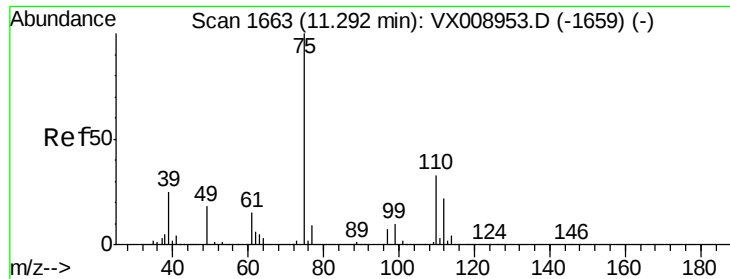
Abundance

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

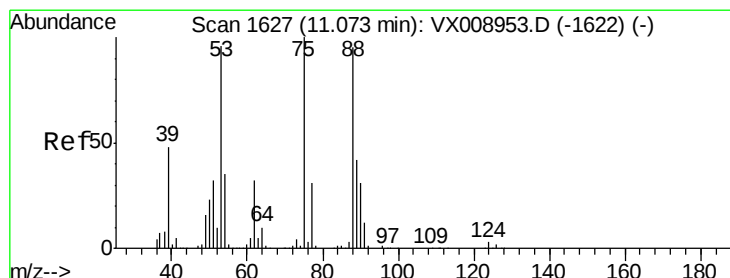
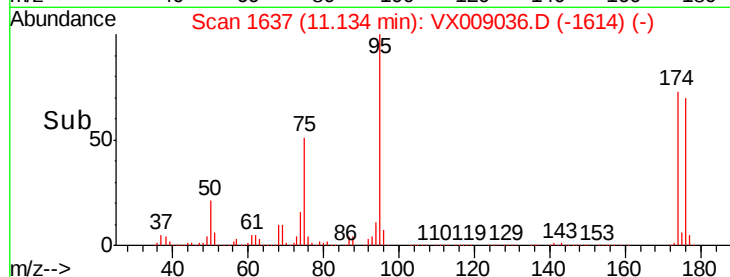
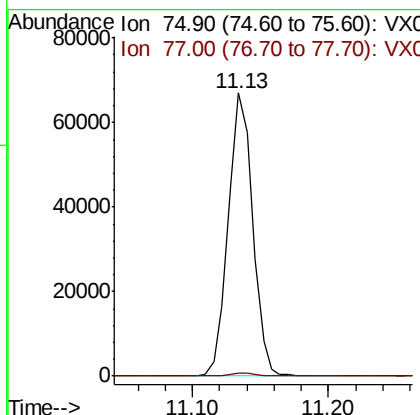
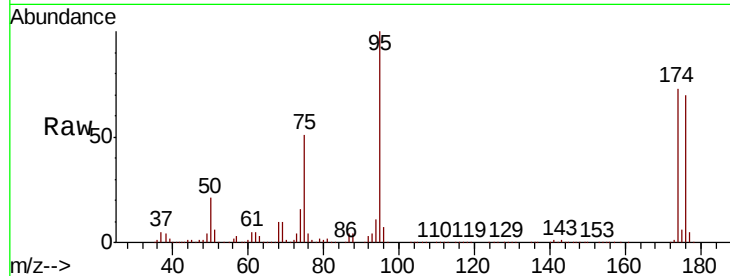




#76
 1,2,3-Trichloropropane
 Concen: 23.839 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW318-190410DL

Tot Ion: 75 Resp: 83850
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.7 68.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.201 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009036.D
 Acq: 18 Apr 2019 12:14

Tgt Ion: 75 Resp: 83850
 Ion Ratio Lower Upper
 75 100
 53 0.3 78.2 117.4#
 89 0.0 36.0 54.0#

