

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX081318\
 Data File : VX003994.D
 Acq On : 13 Aug 2018 12:36
 Operator : JC/MD
 Sample : J4379-24DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-101DDL

Quant Time: Aug 14 03:05:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 13 01:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	294443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	479898	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	433683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	229488	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	213191	54.62	ug/l	0.00
Spiked Amount			Recovery	=	109.24%	
35) Dibromofluoromethane	5.50	113	180351	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	8.71	98	669247	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
62) 4-Bromofluorobenzene	11.14	95	226422	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	

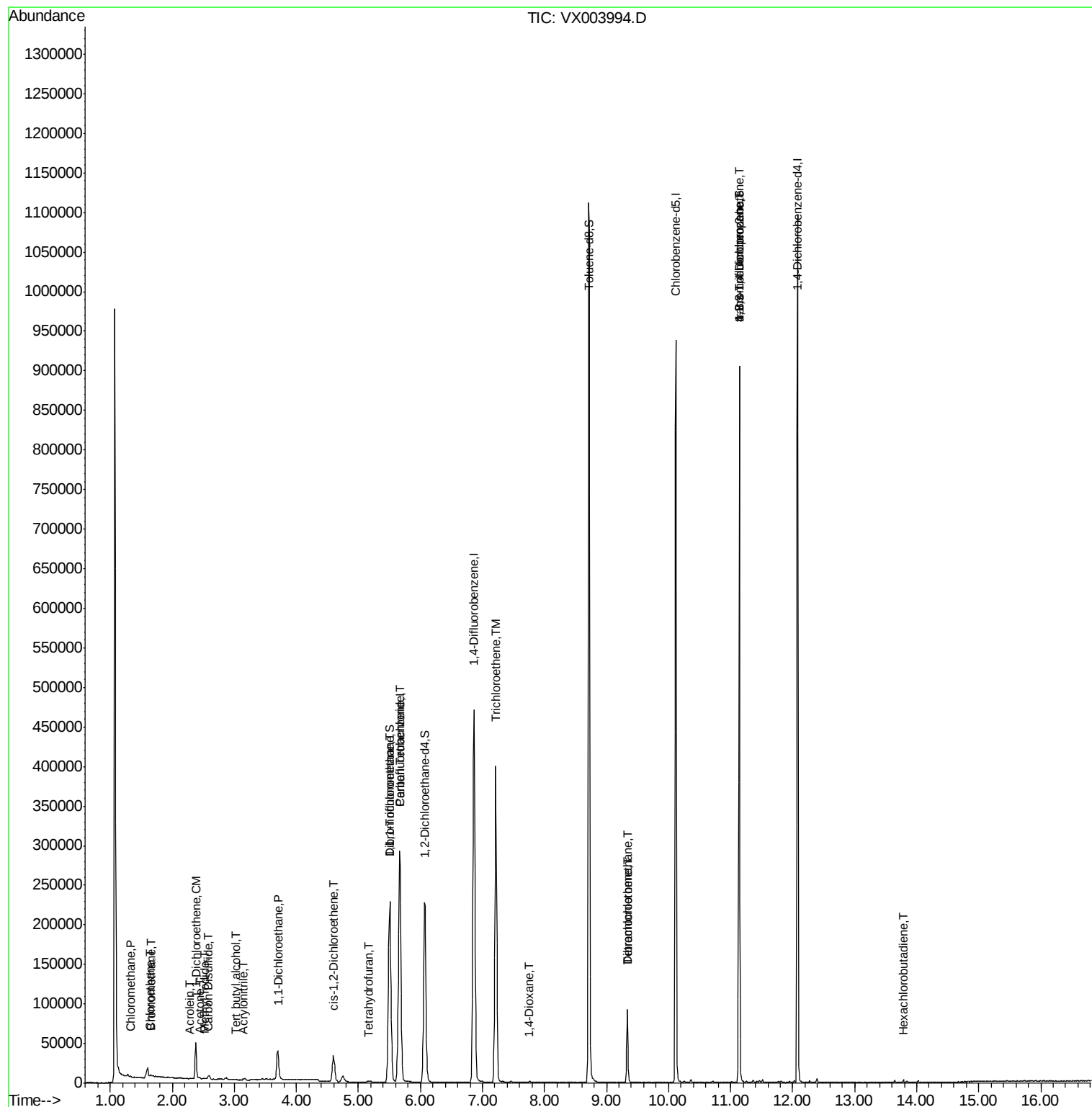
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	904	0.22	ug/l	90
5) Bromomethane	1.65	94	1310	0.51	ug/l	94
6) Chloroethane	1.64	64	902	0.35	ug/l #	42
10) Methyl Iodide	2.52	142	1611	0.39	ug/l	98
11) Tert butyl alcohol	3.03	59	785	0.84	ug/l #	80
12) 1,1-Dichloroethene	2.38	96	15951	5.05	ug/l	95
13) Acrolein	2.28	56	262	0.51	ug/l #	80
15) Acrylonitrile	3.14	53	786	0.35	ug/l #	81
16) Acetone	2.44	43	1679	0.72	ug/l #	83
17) Carbon Disulfide	2.57	76	2681	0.28	ug/l #	94
24) 1,1-Dichloroethane	3.70	63	43289	6.51	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	21458	5.51	ug/l	96
29) Tetrahydrofuran	5.17	42	1762	0.98	ug/l #	89
32) 1,1,1-Trichloroethane	5.49	97	18761	3.57	ug/l	97
38) Carbon Tetrachloride	5.67	117	26716	5.22	ug/l #	16
44) Trichloroethene	7.21	130	158784	35.97	ug/l	94
49) 1,4-Dioxane	7.76	88	1167	10.95	ug/l	89
60) Dibromochloromethane	9.34	129	16554	4.26	ug/l #	11
64) Tetrachloroethene	9.34	164	19717	4.62	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	107156	21.14	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	107156	64.43	ug/l #	9
94) Hexachlorobutadiene	13.79	225	673	0.24	ug/l	93

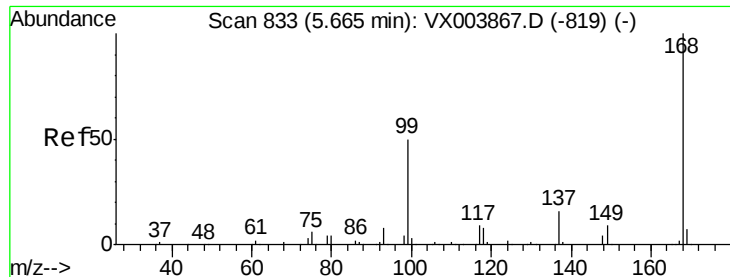
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081318\
Data File : VX003994.D
Acq On : 13 Aug 2018 12:36
Operator : JC/MD
Sample : J4379-24DL 5X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-101DDL

Quant Time: Aug 14 03:05:50 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 13 01:34:27 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: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

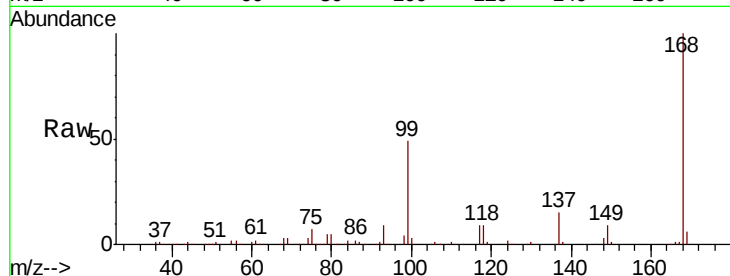
MW-101DDL

Tot Ion:168 Resp: 294443

Ion Ratio Lower Upper

168 100

99 49.0 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

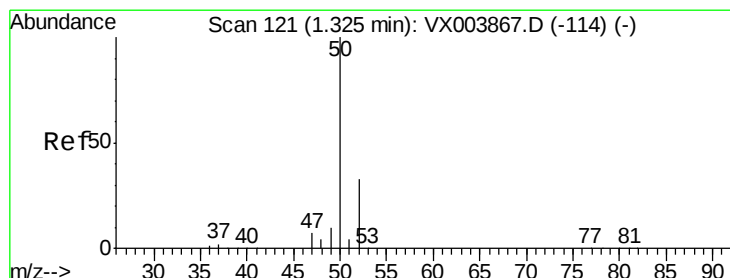
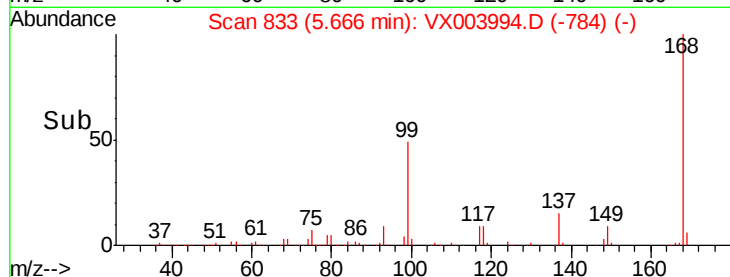
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003994.D

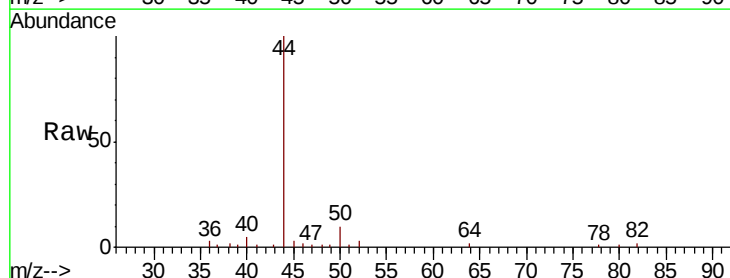
Acq: 13 Aug 2018 12:36

Tgt Ion: 50 Resp: 904

Ion Ratio Lower Upper

50 100

52 27.3 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

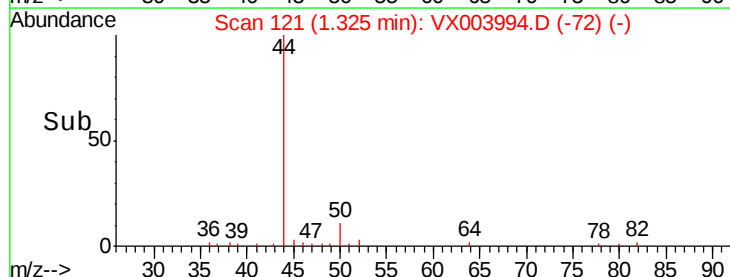
600

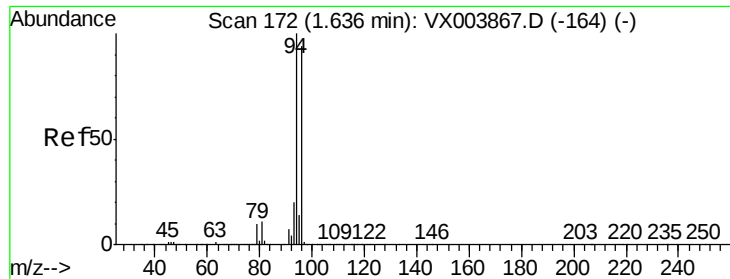
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.51 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

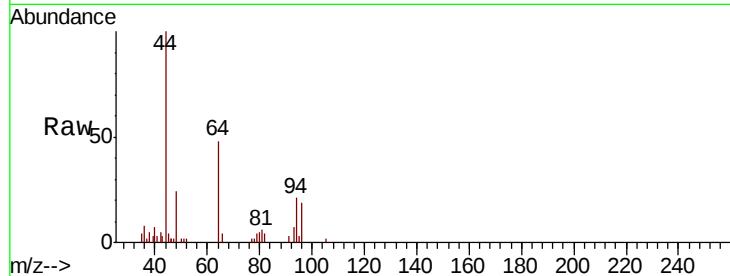
MW-101DDL

Tot Ion: 94 Resp: 1310

Ion Ratio Lower Upper

94 100

96 88.1 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

800

600

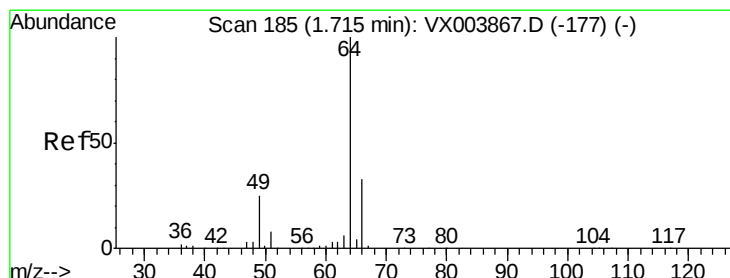
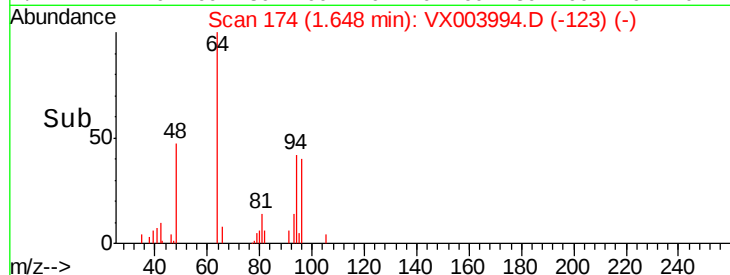
400

200

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: 0.35 ug/l

RT: 1.64 min Scan# 173

Delta R.T. -0.07 min

Lab File: VX003994.D

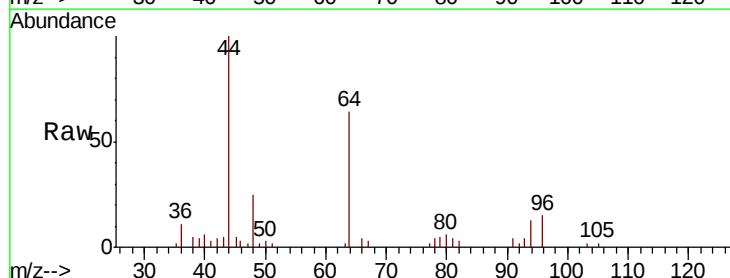
Acq: 13 Aug 2018 12:36

Tgt Ion: 64 Resp: 902

Ion Ratio Lower Upper

64 100

66 0.1 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

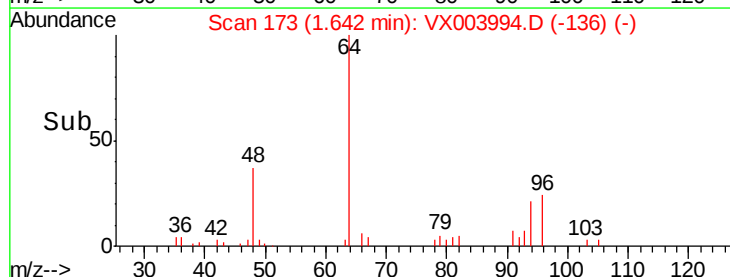
1000

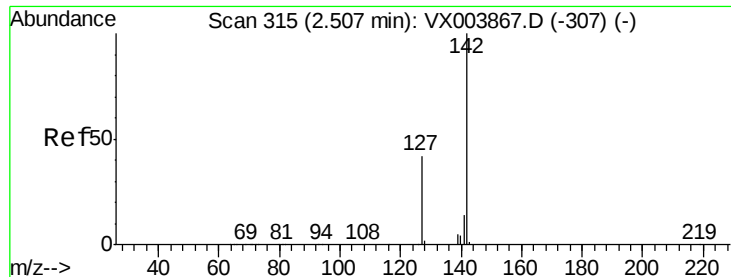
500

0

1.62 1.64 1.66

Time-->

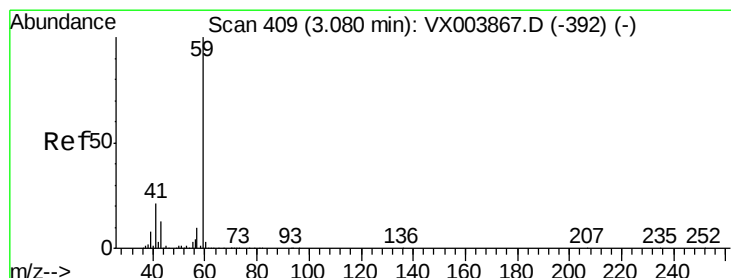
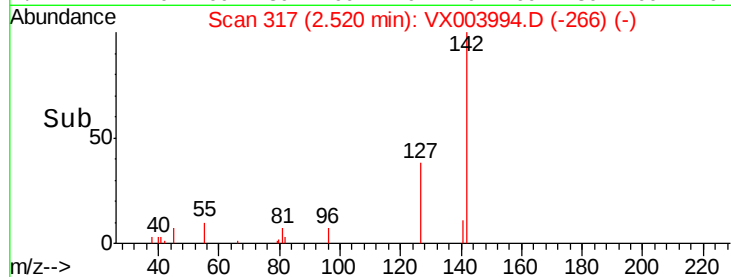
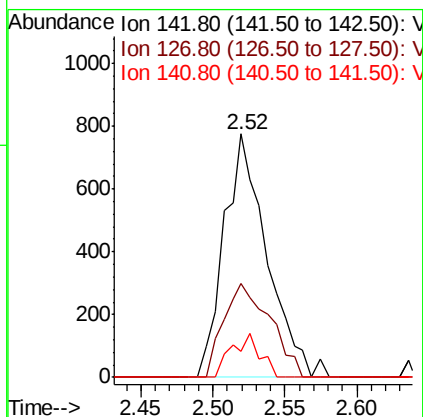
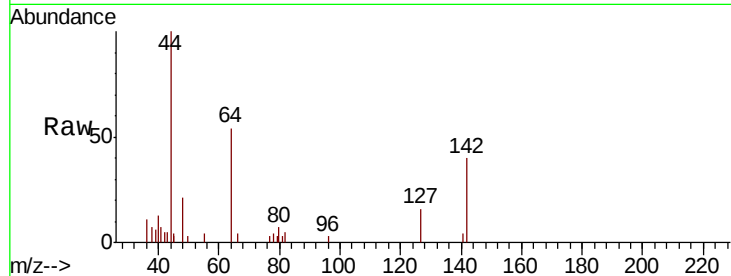




#10
Methyl Iodide
Concen: 0.39 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

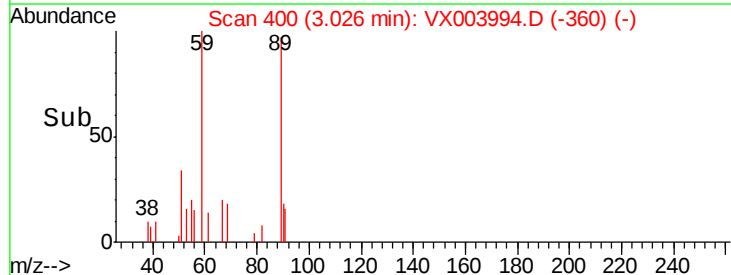
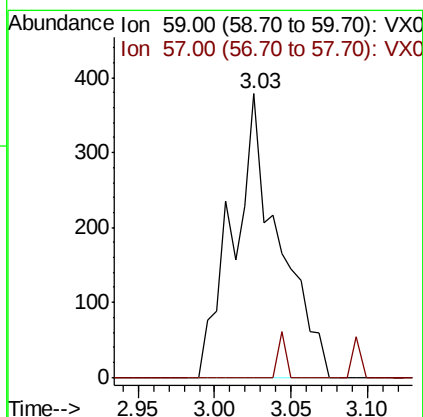
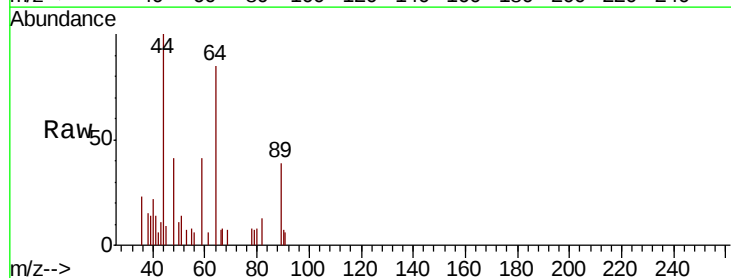
Instrument :
MSVOA_X
ClientSampled :
MW-101DDL

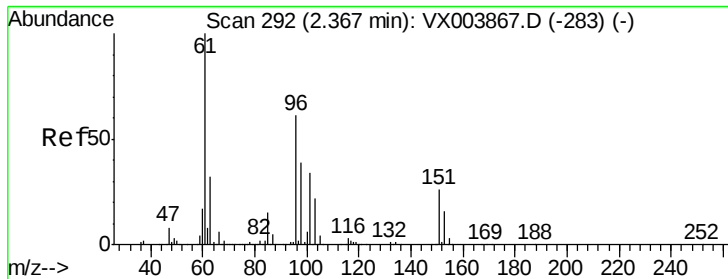
Tot Ion:142 Resp: 1611
Ion Ratio Lower Upper
142 100
127 41.7 33.1 49.7
141 11.9 11.1 16.7



#11
Tert butyl alcohol
Concen: 0.84 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Tgt Ion: 59 Resp: 785
Ion Ratio Lower Upper
59 100
57 2.8 8.1 12.1#





#12

1,1-Dichloroethene

Concen: 5.05 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

MW-101DDL

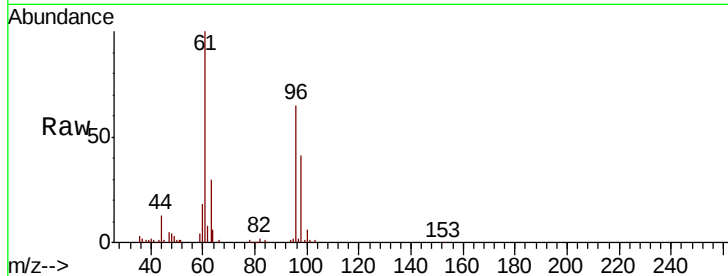
Tot Ion: 96 Resp: 15951

Ion Ratio Lower Upper

96 100

61 155.0 131.3 196.9

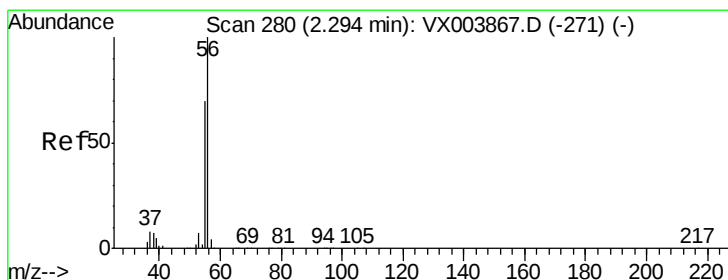
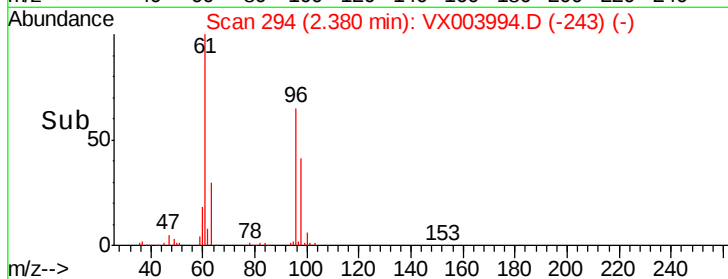
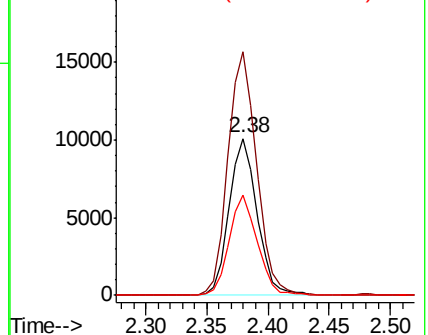
98 63.7 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.51 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX003994.D

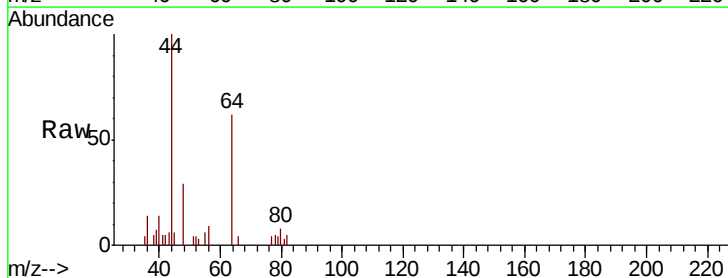
Acq: 13 Aug 2018 12:36

Tgt Ion: 56 Resp: 262

Ion Ratio Lower Upper

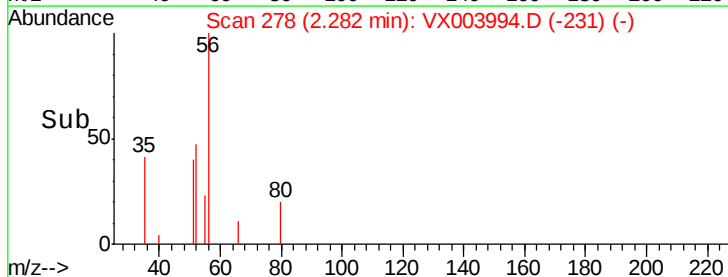
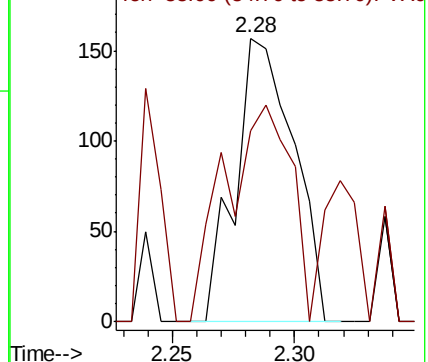
56 100

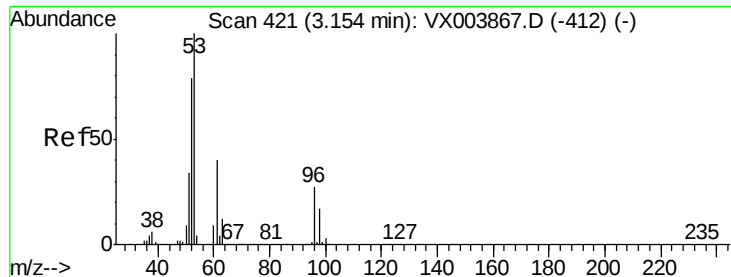
55 86.3 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.35 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

MW-101DDL

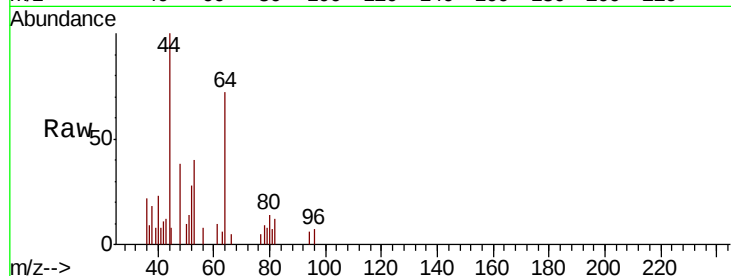
Tot Ion: 53 Resp: 786

Ion Ratio Lower Upper

53 100

52 97.8 65.3 97.9

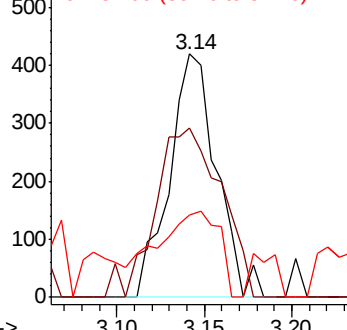
51 47.2 27.9 41.9#



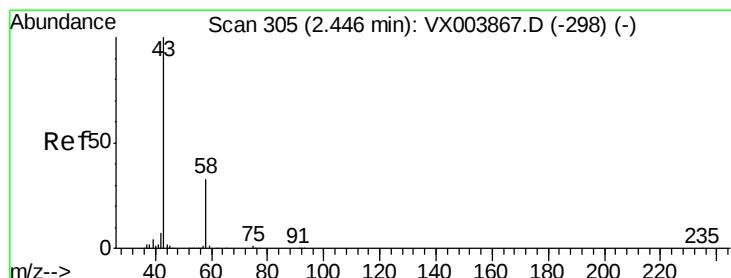
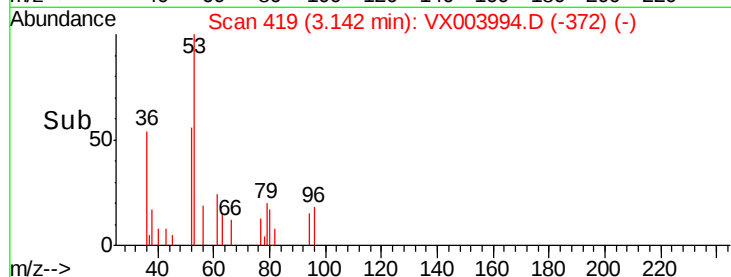
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 0.72 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003994.D

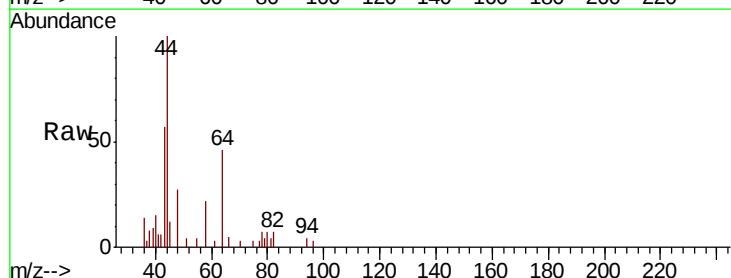
Acq: 13 Aug 2018 12:36

Tgt Ion: 43 Resp: 1679

Ion Ratio Lower Upper

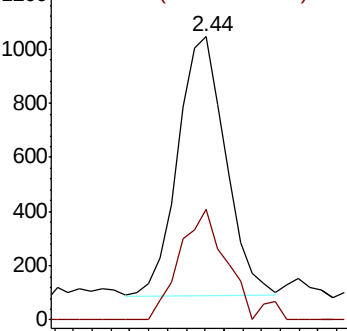
43 100

58 42.9 26.4 39.6#

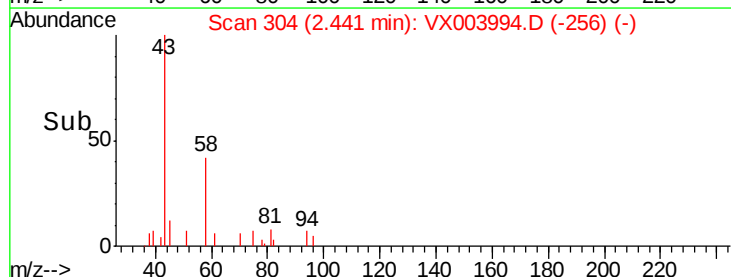


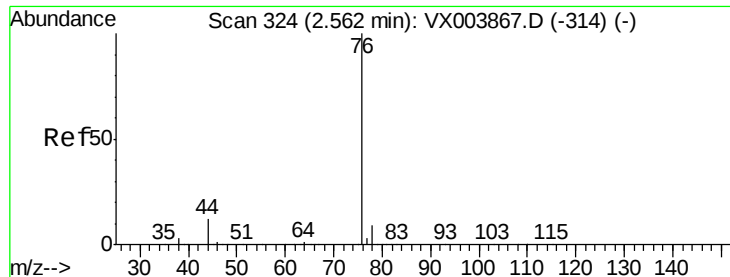
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

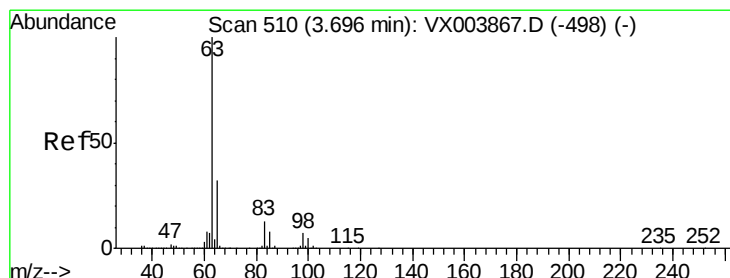
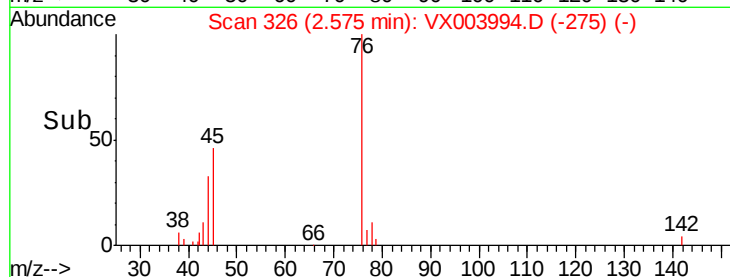
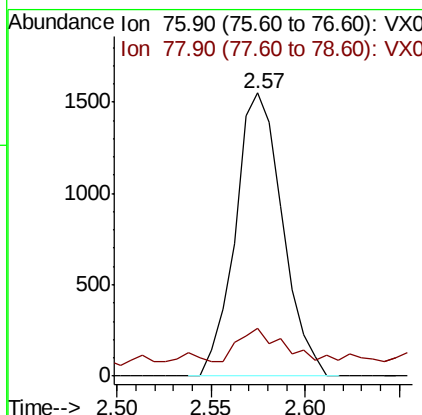
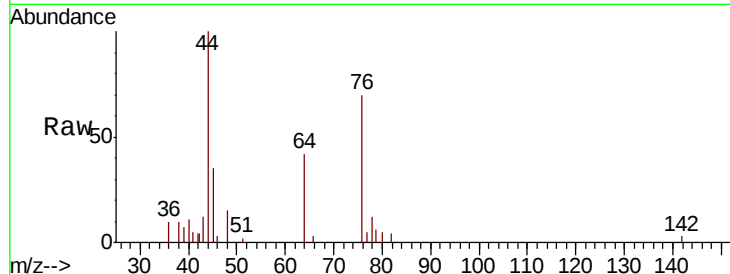




#17
Carbon Disulfide
Concen: 0.28 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

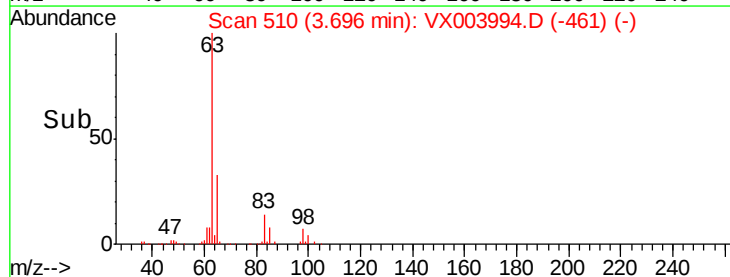
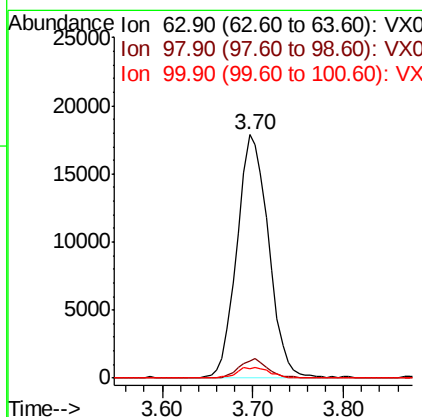
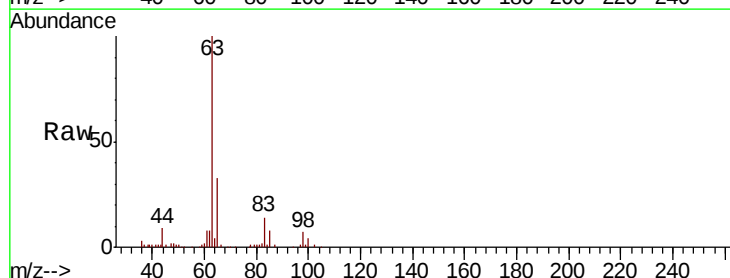
Instrument :
MSVOA_X
ClientSampleId :
MW-101DDL

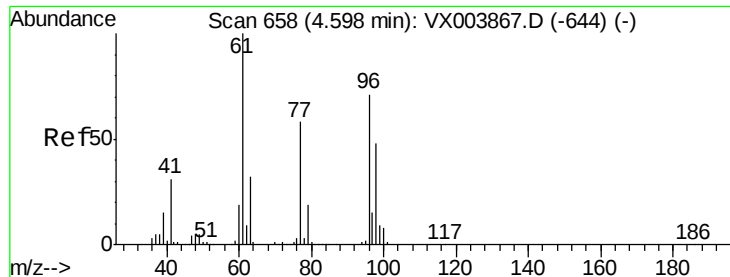
Tot Ion: 76 Resp: 2681
Ion Ratio Lower Upper
76 100
78 11.7 7.5 11.3#



#24
1,1-Dichloroethane
Concen: 6.51 ug/l
RT: 3.70 min Scan# 510
Delta R.T. 0.00 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Tgt Ion: 63 Resp: 43289
Ion Ratio Lower Upper
63 100
98 7.2 3.5 10.5
100 4.1 2.3 6.8





#27

cis-1,2-Dichloroethene

Concen: 5.51 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

MW-101DDL

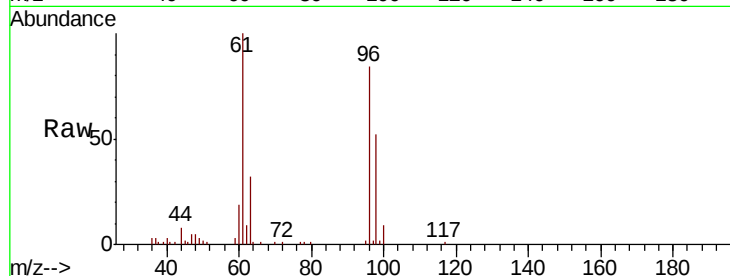
Tot Ion: 96 Resp: 21458

Ion Ratio Lower Upper

96 100

61 139.1 0.0 293.0

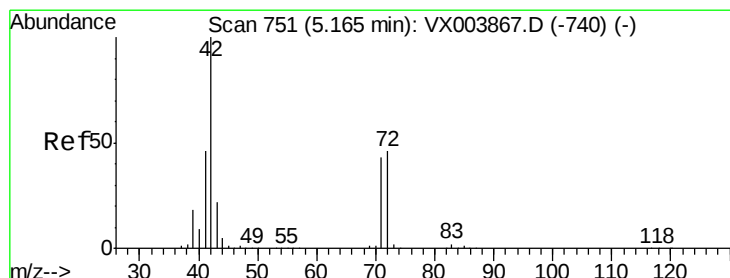
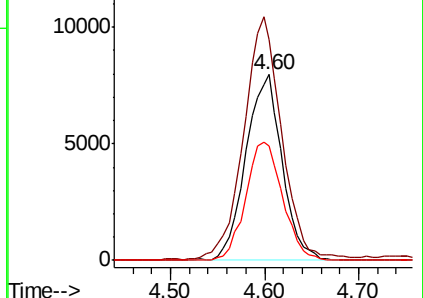
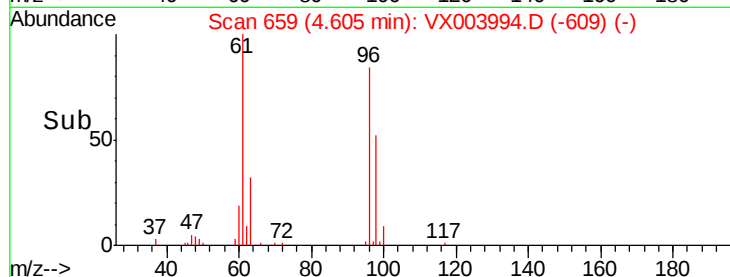
98 64.8 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.98 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

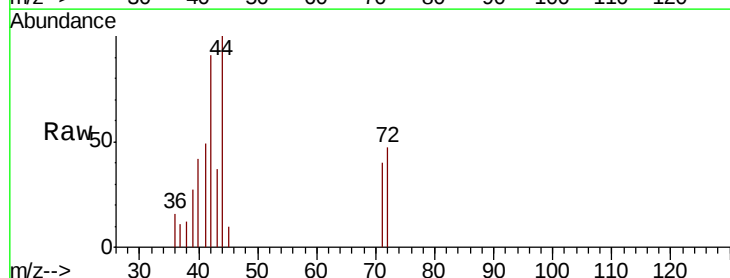
Tgt Ion: 42 Resp: 1762

Ion Ratio Lower Upper

42 100

72 42.7 37.7 56.5

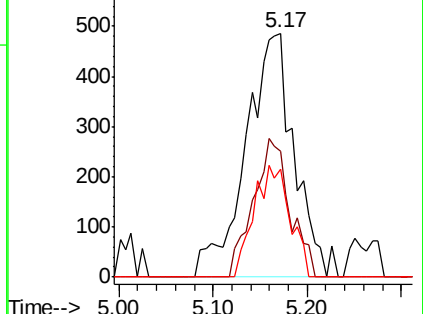
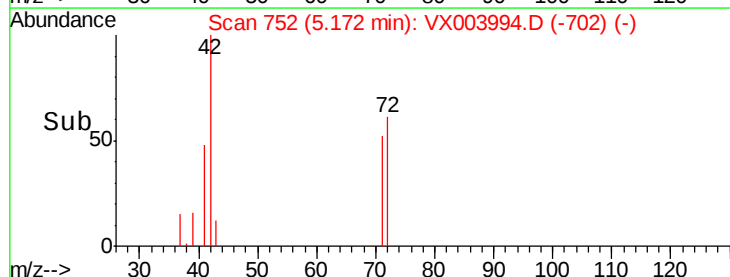
71 33.8 35.0 52.6#

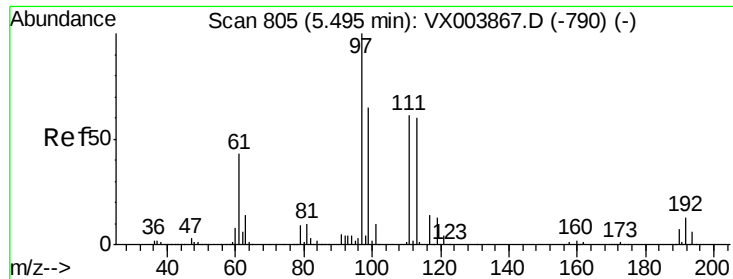


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#32

1,1,1-Trichloroethane

Concen: 3.57 ug/l

RT: 5.49 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

MW-101DDL

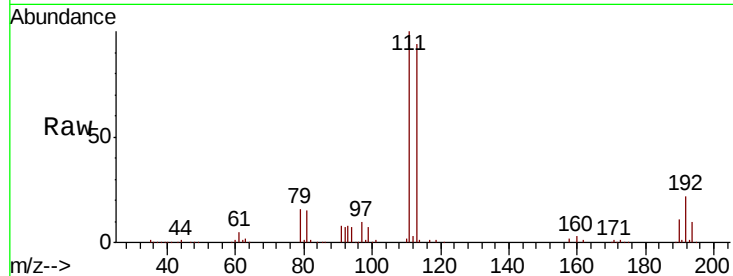
Tot Ion: 97 Resp: 18761

Ion Ratio Lower Upper

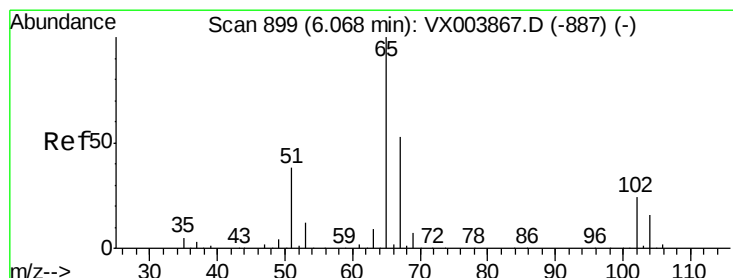
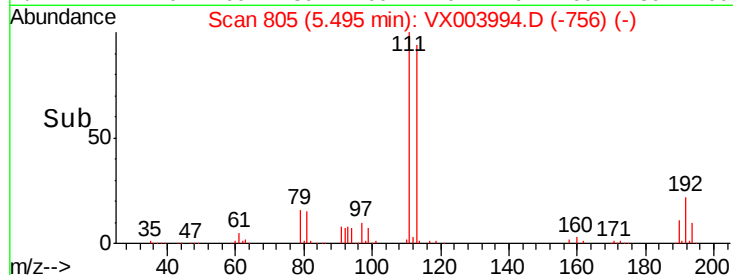
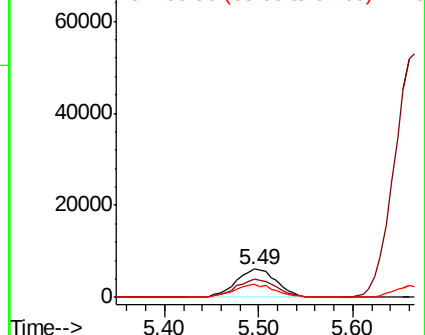
97 100

99 63.6 51.8 77.8

61 45.6 34.4 51.6



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.62 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003994.D

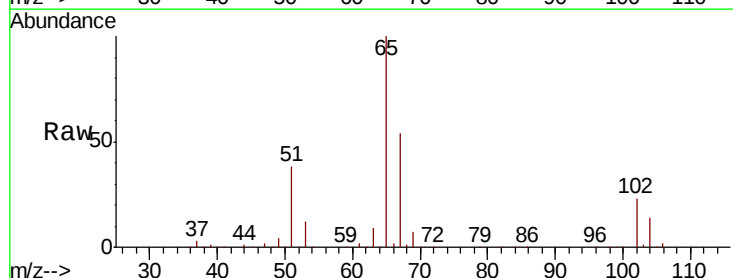
Acq: 13 Aug 2018 12:36

Tgt Ion: 65 Resp: 213191

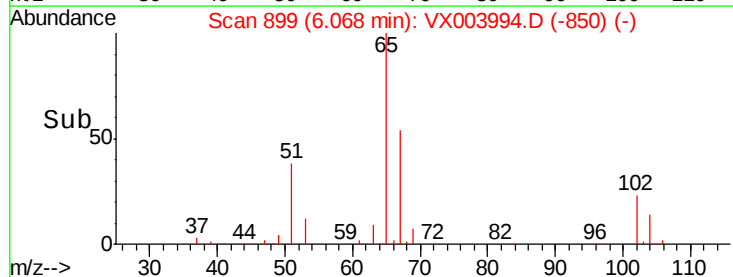
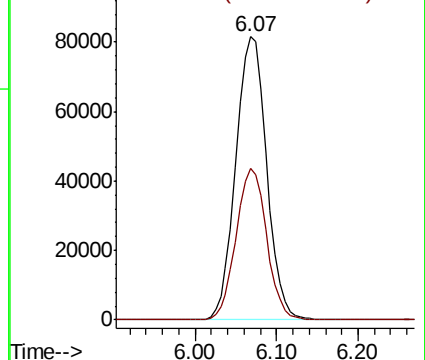
Ion Ratio Lower Upper

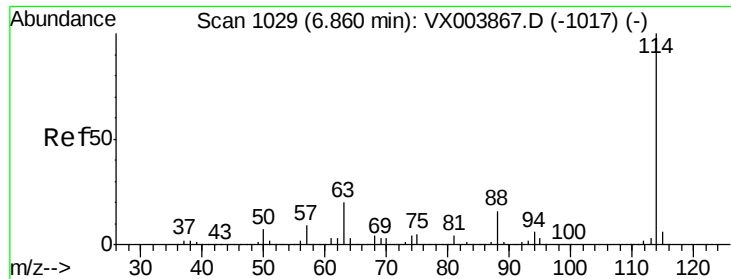
65 100

67 53.1 0.0 105.8



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

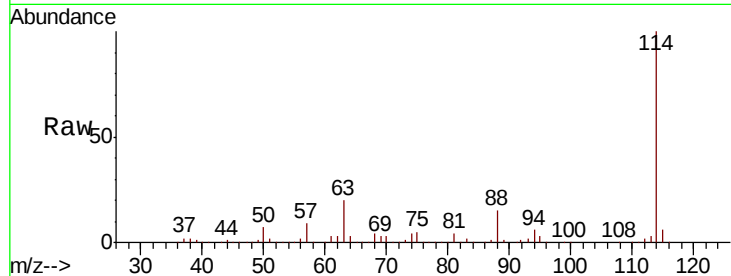




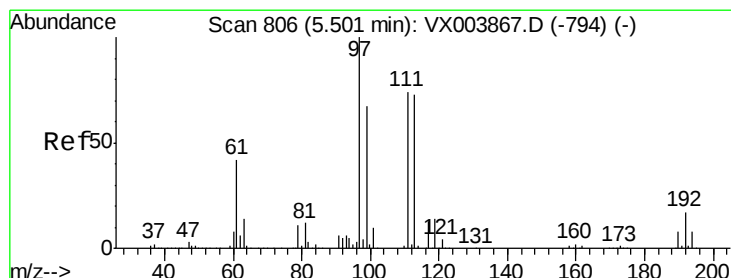
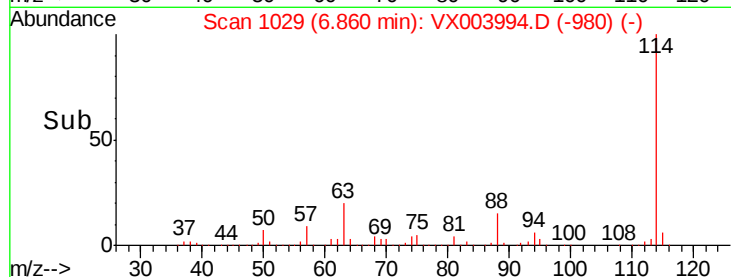
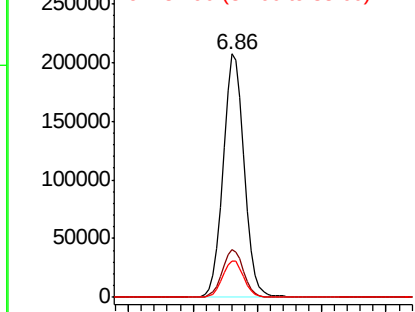
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Instrument :
MSVOA_X
ClientSampled :
MW-101DDL

Tot Ion:114 Resp: 479898
Ion Ratio Lower Upper
114 100
63 19.8 0.0 39.0
88 15.0 0.0 32.0

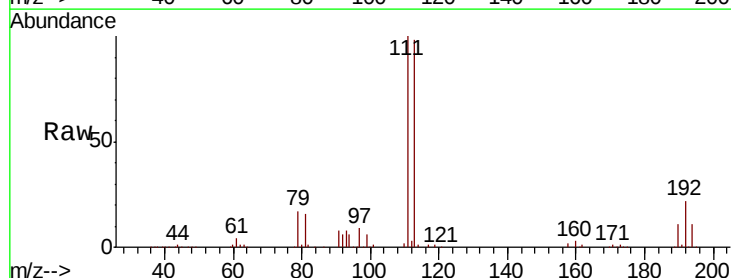


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

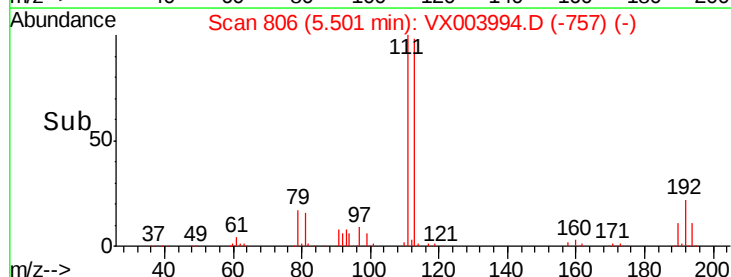
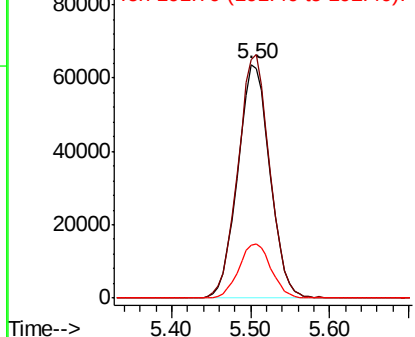


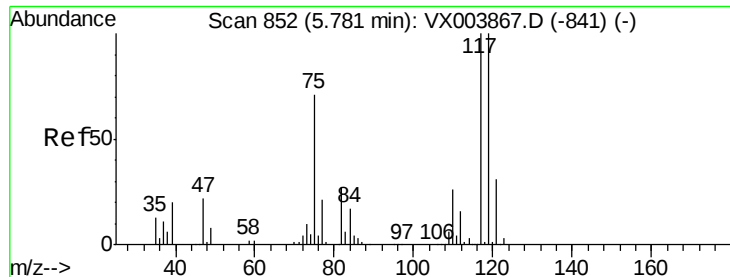
#35
Dibromofluoromethane
Concen: 49.61 ug/l
RT: 5.50 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Tgt Ion:113 Resp: 180351
Ion Ratio Lower Upper
113 100
111 103.0 82.0 123.0
192 23.4 19.0 28.4



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





#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

MW-101DDL

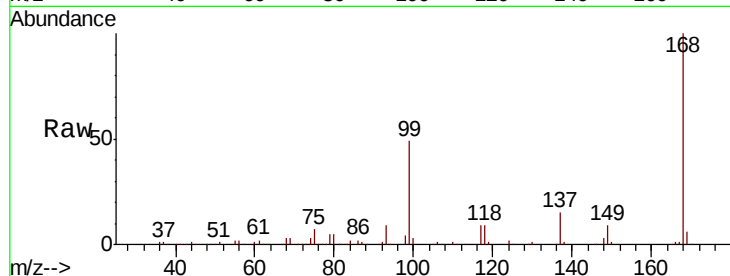
Tot Ion:117 Resp: 26716

Ion Ratio Lower Upper

117 100

119 6.5 79.5 119.3#

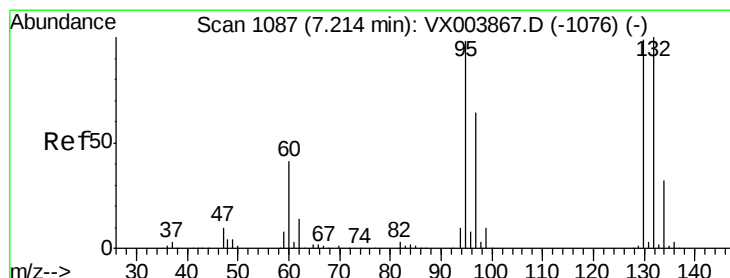
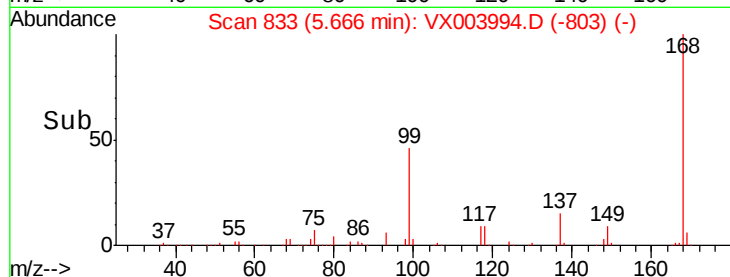
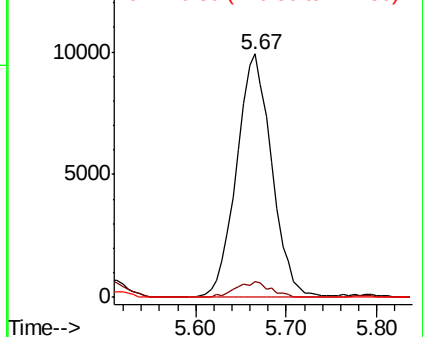
121 0.0 25.0 37.4#



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



#44

Trichloroethene

Concen: 35.97 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003994.D

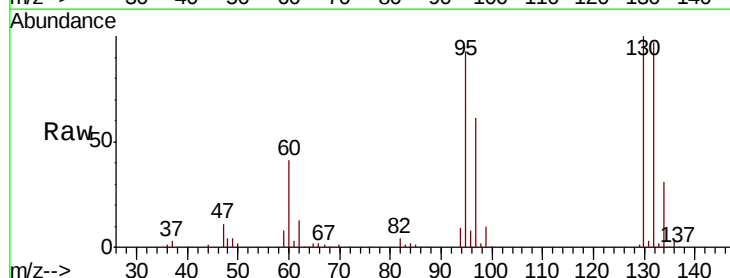
Acq: 13 Aug 2018 12:36

Tgt Ion:130 Resp: 158784

Ion Ratio Lower Upper

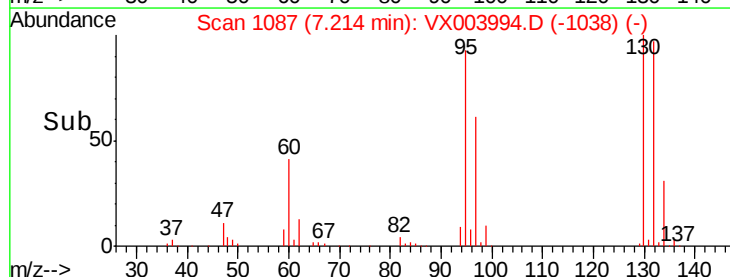
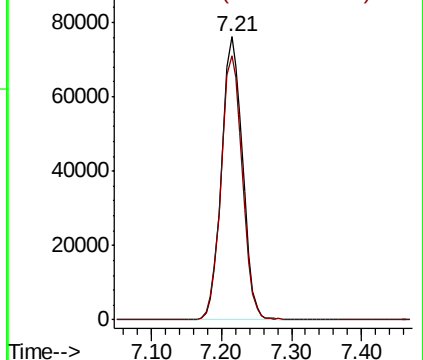
130 100

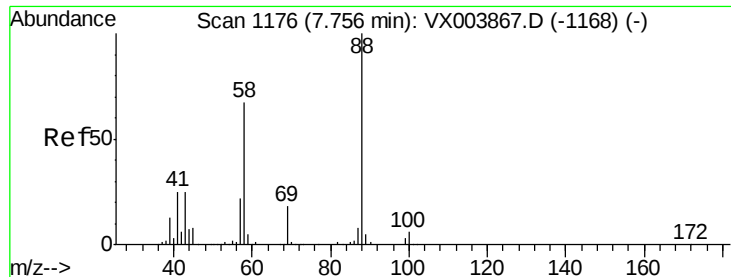
95 93.3 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

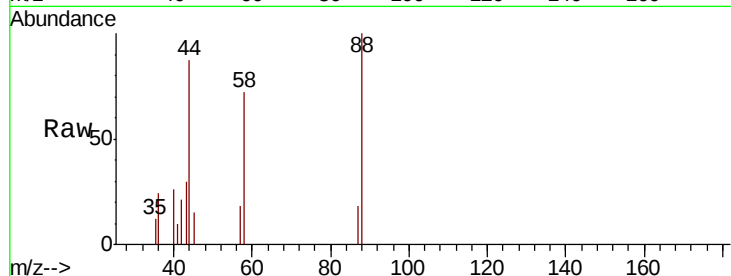




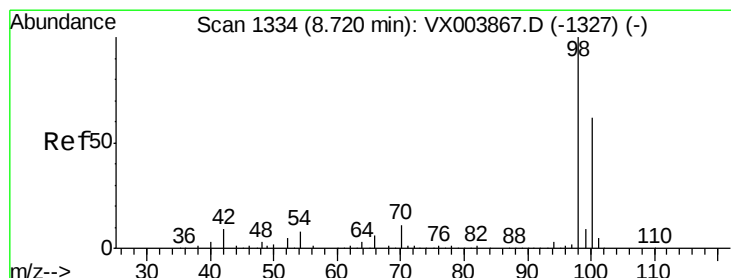
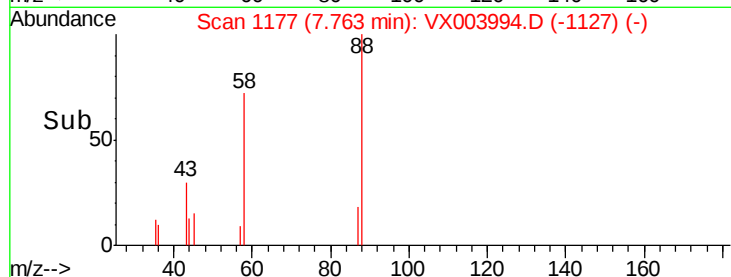
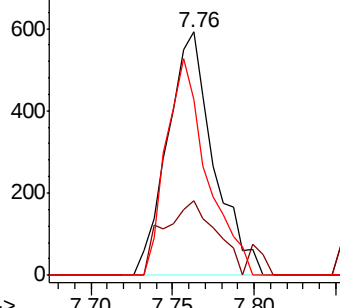
#49
1,4-Dioxane
Concen: 10.95 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. 0.01 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Instrument :
MSVOA_X
ClientSampleId :
MW-101DDL

Tot Ion: 88 Resp: 1167
Ion Ratio Lower Upper
88 100
43 34.8 23.8 35.8
58 78.9 55.4 83.0

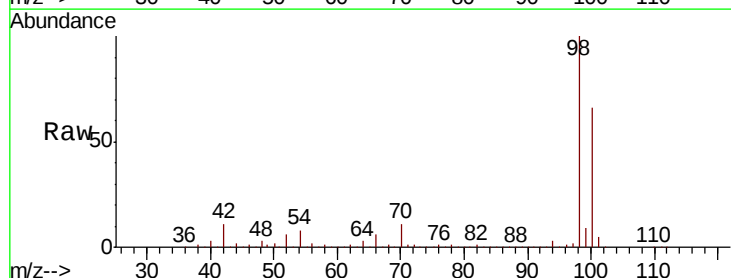


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

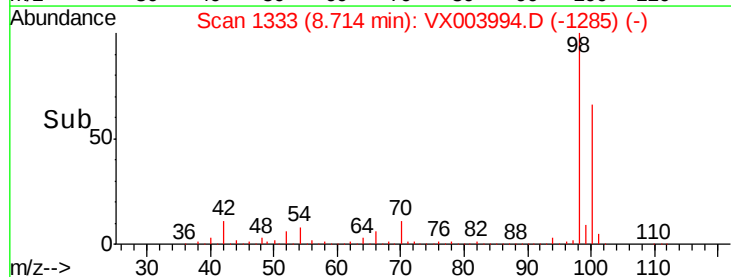
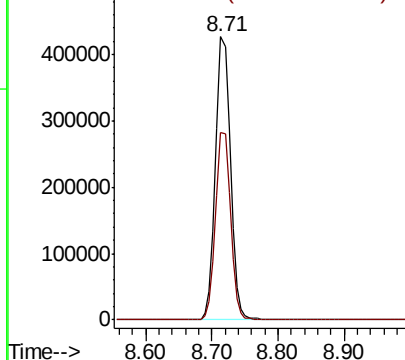


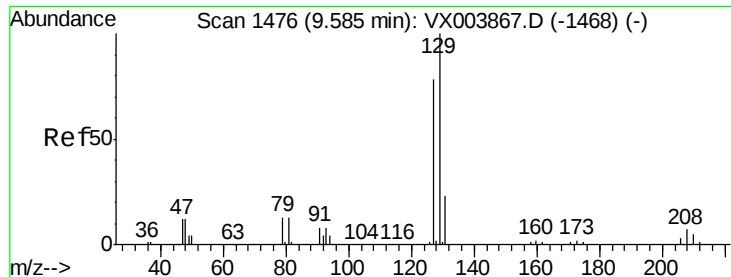
#50
Toluene-d8
Concen: 47.34 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Tgt Ion: 98 Resp: 669247
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

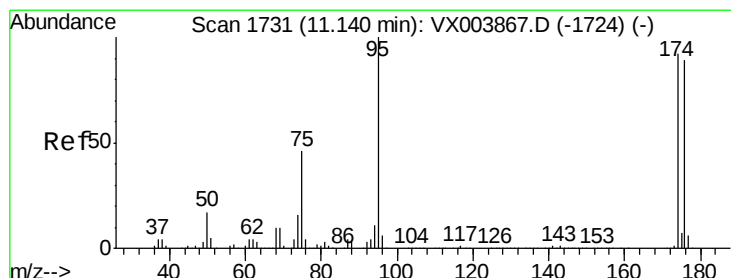
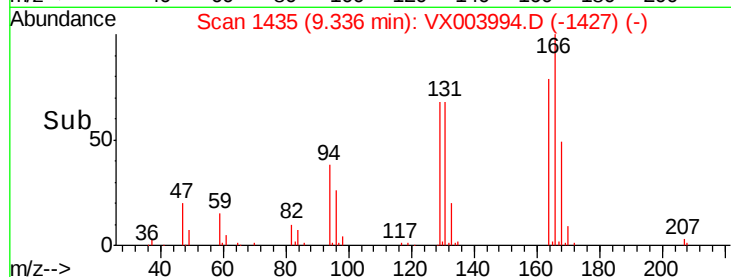
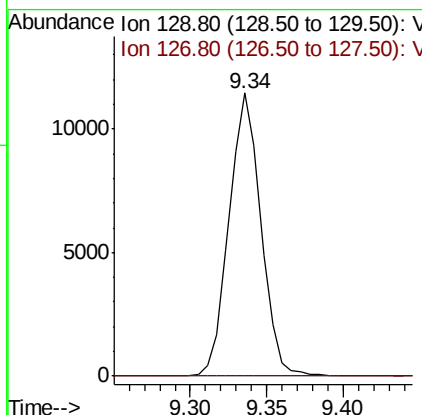
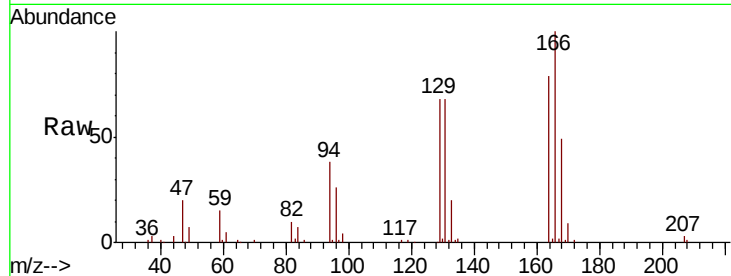




#60
 Dibromochloromethane
 Concen: 4.26 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. -0.25 min
 Lab File: VX003994.D
 Acq: 13 Aug 2018 12:36

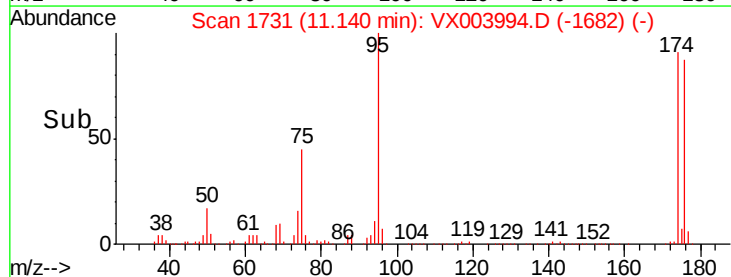
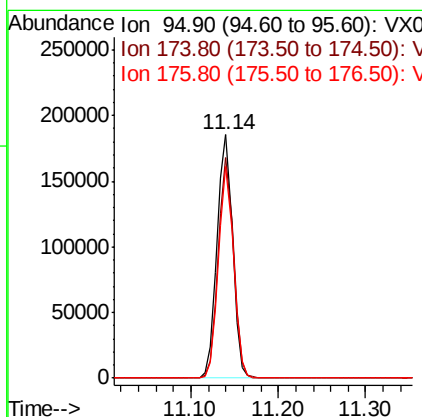
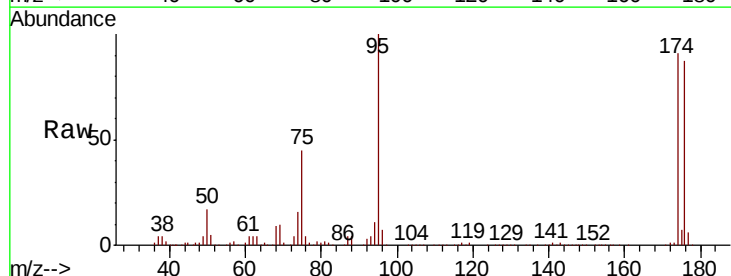
Instrument :
 MSVOA_X
 ClientSampled :
 MW-101DDL

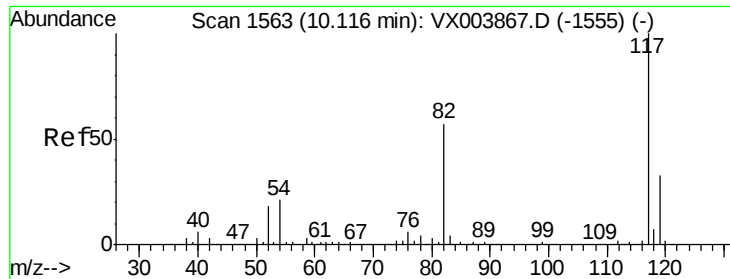
Tot Ion:129 Resp: 16554
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.3#



#62
 4-Bromofluorobenzene
 Concen: 49.49 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX003994.D
 Acq: 13 Aug 2018 12:36

Tgt Ion: 95 Resp: 226422
 Ion Ratio Lower Upper
 95 100
 174 89.7 0.0 182.8
 176 84.6 0.0 179.0

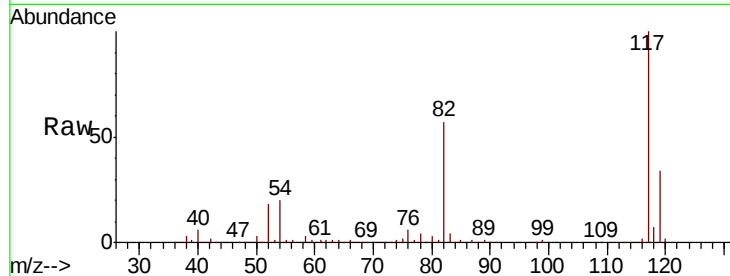




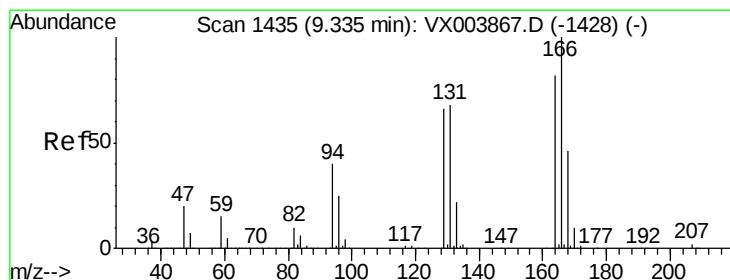
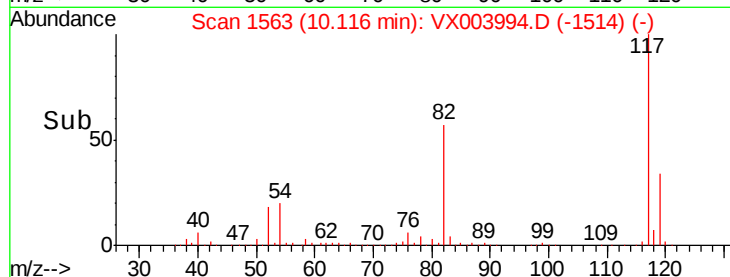
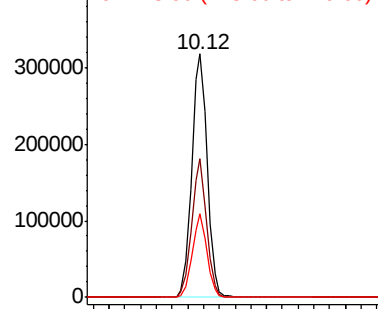
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Instrument :
MSVOA_X
ClientSampleId :
MW-101DDL

Tot Ion:117 Resp: 433683
Ion Ratio Lower Upper
117 100
82 56.9 45.4 68.0
119 34.4 26.6 40.0

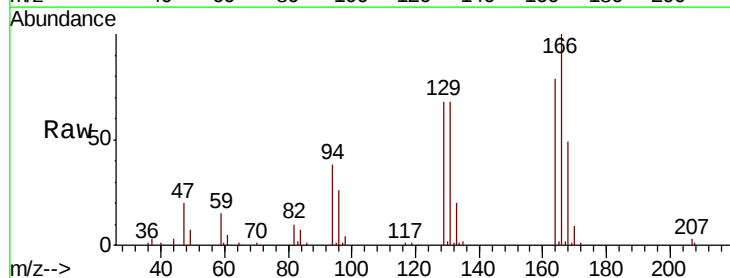


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

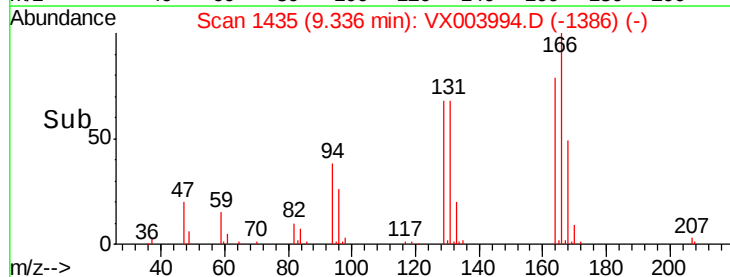
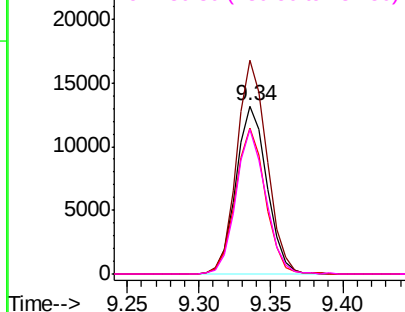


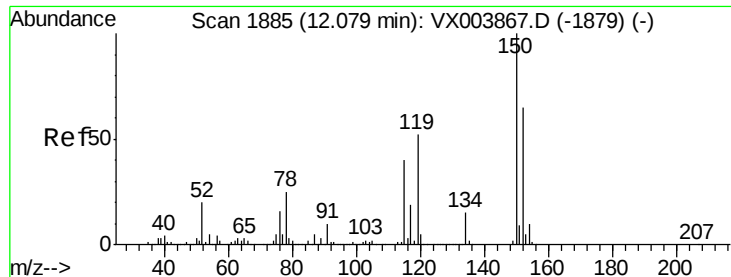
#64
Tetrachloroethene
Concen: 4.62 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX003994.D
Acq: 13 Aug 2018 12:36

Tgt Ion:164 Resp: 19717
Ion Ratio Lower Upper
164 100
166 127.2 98.0 147.0
129 86.9 64.3 96.5
131 86.4 66.8 100.2



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

MW-101DDL

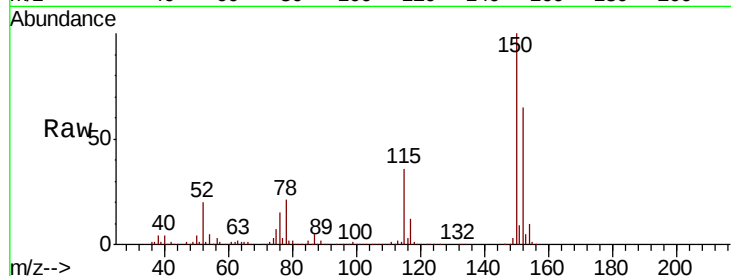
Tot Ion:152 Resp: 229488

Ion Ratio Lower Upper

152 100

115 54.6 39.1 117.3

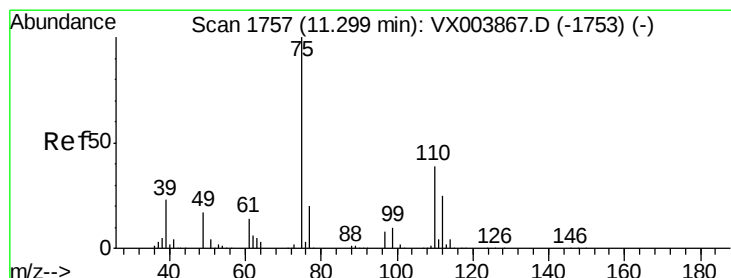
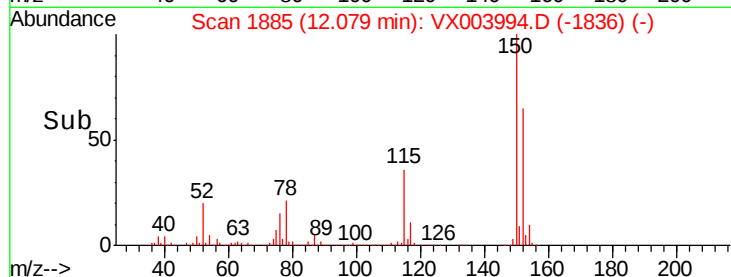
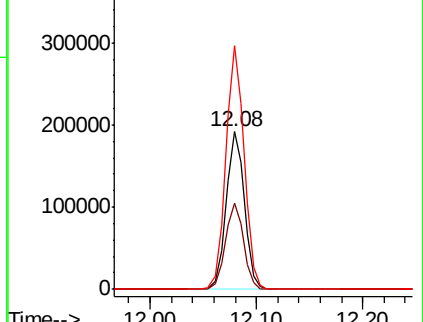
150 154.9 0.0 349.2



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: 21.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003994.D

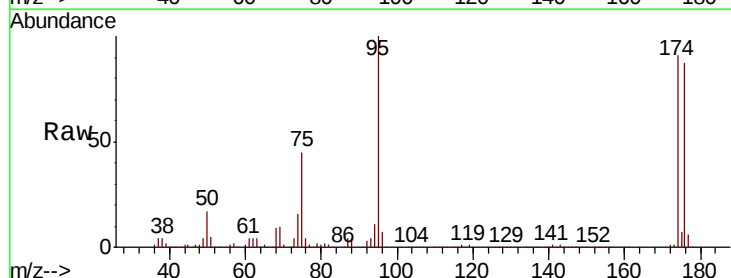
Acq: 13 Aug 2018 12:36

Tgt Ion: 75 Resp: 107156

Ion Ratio Lower Upper

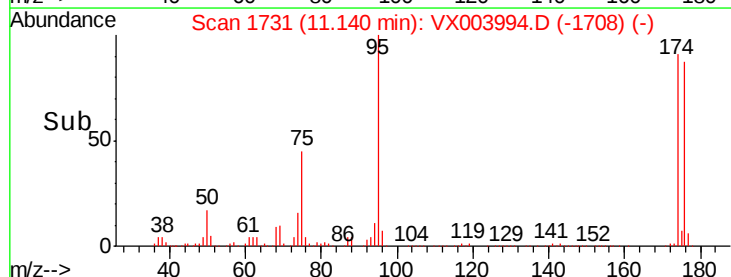
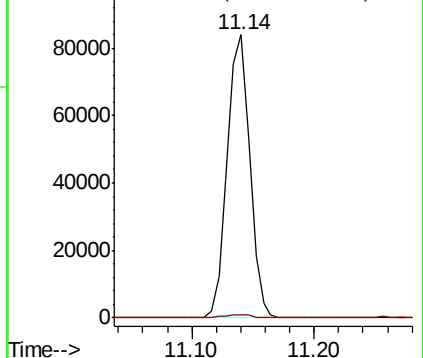
75 100

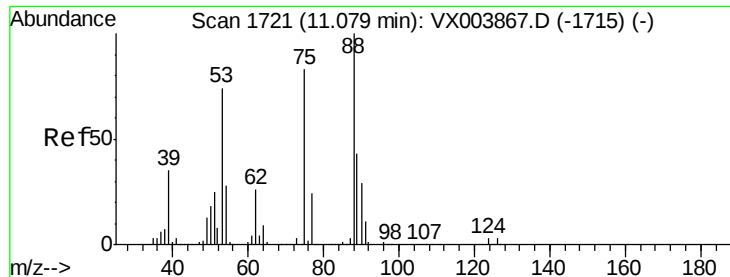
77 1.4 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

MW-101DDL

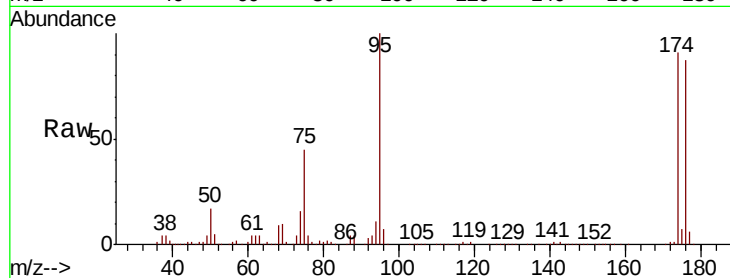
Tot Ion: 75 Resp: 107156

Ion Ratio Lower Upper

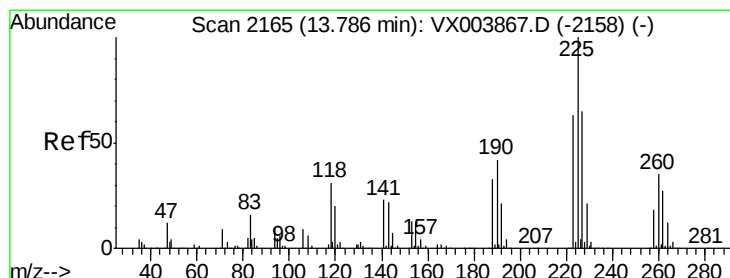
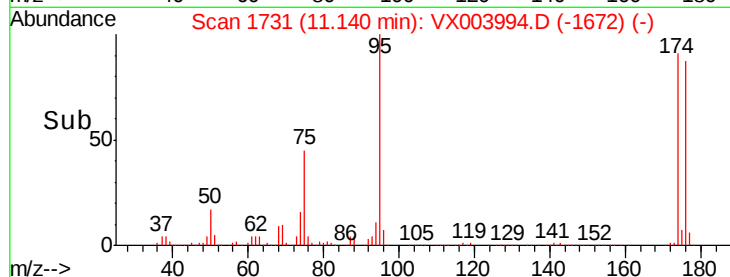
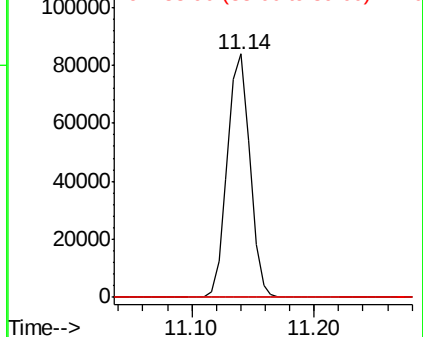
75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#94

Hexachlorobutadiene

Concen: 0.24 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003994.D

Acq: 13 Aug 2018 12:36

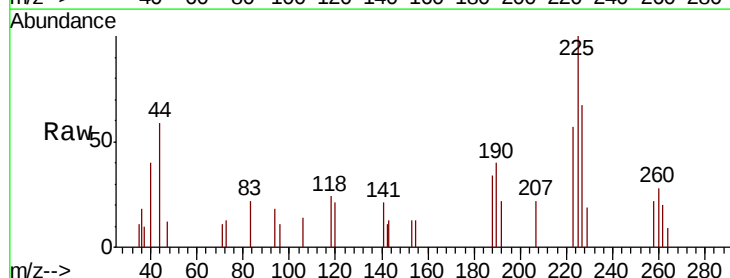
Tgt Ion: 225 Resp: 673

Ion Ratio Lower Upper

225 100

223 71.2 31.4 94.0

227 61.7 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

