

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX009988.D
 Acq On : 31 May 2019 16:23
 Operator : JC/SP
 Sample : K3131-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF014MW005-190530

Quant Time: Jun 01 04:44:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	178946	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	292343	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	265544	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119411	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	123067	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
35) Dibromofluoromethane	5.50	113	90143	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.71	98	375410	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	11.13	95	128604	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	

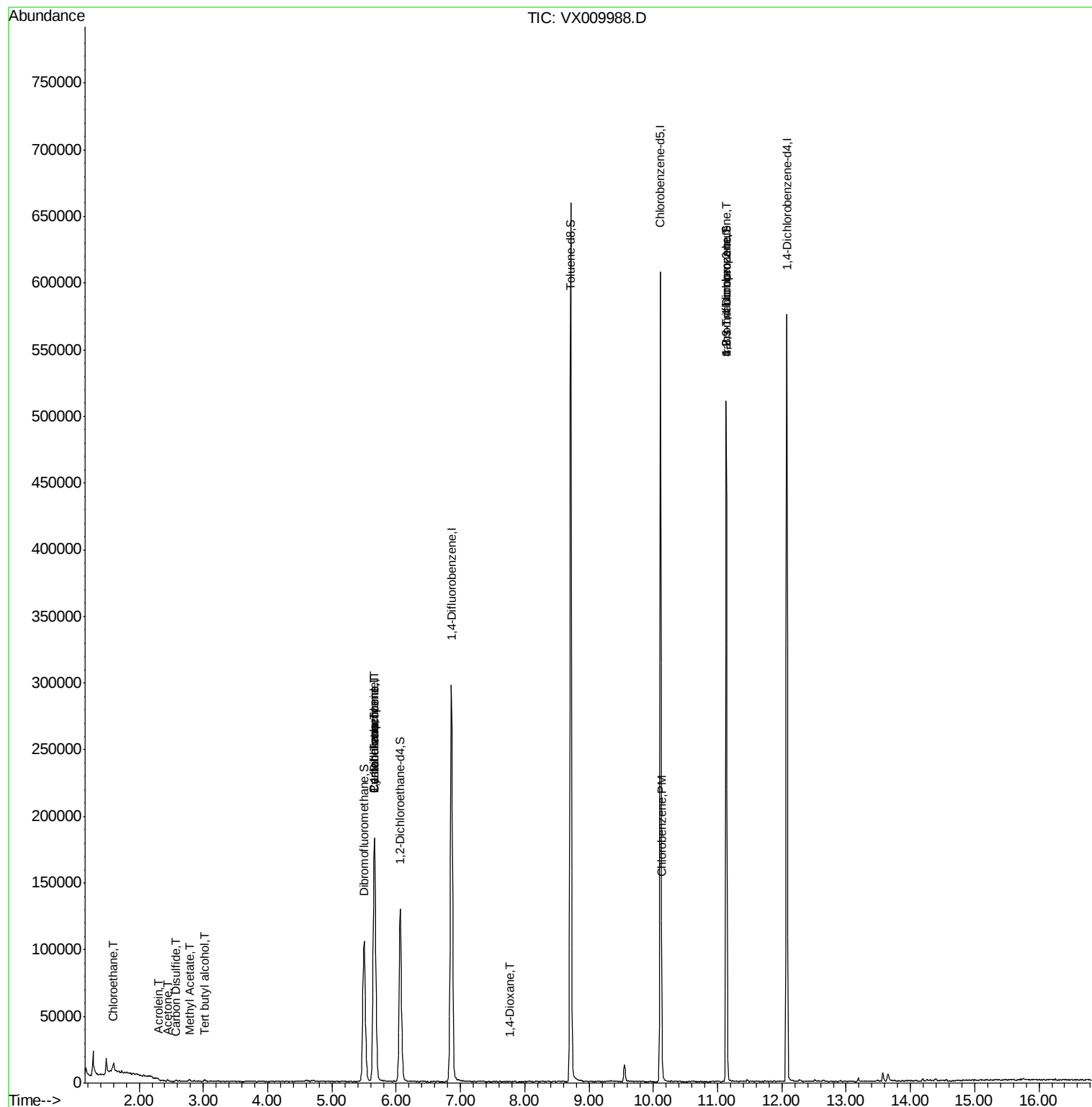
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.59	64	9439	5.786	ug/l #	55
11) Tert butyl alcohol	3.01	59	321	0.516	ug/l #	61
13) Acrolein	2.29	56	177	21.464	ug/l #	1
16) Acetone	2.44	43	1496	1.024	ug/l #	80
17) Carbon Disulfide	2.57	76	780	0.526	ug/l #	87
18) Methyl Acetate	2.78	43	2244	0.660	ug/l	98
31) Cyclohexane	5.65	56	4313	1.121	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14230	4.797	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16975	6.623	ug/l #	17
49) 1,4-Dioxane	7.76	88	20	0.326	ug/l #	1
65) Chlorobenzene	10.13	112	2964	0.533	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	66436	23.266	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	66436	57.564	ug/l #	10

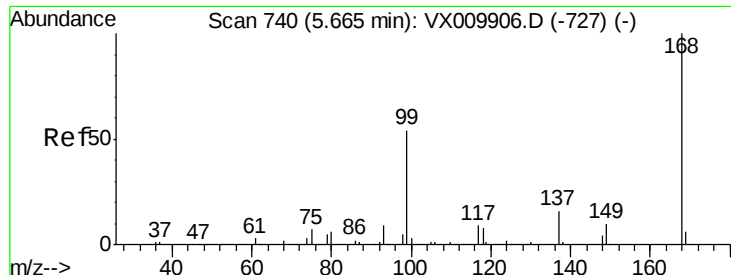
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

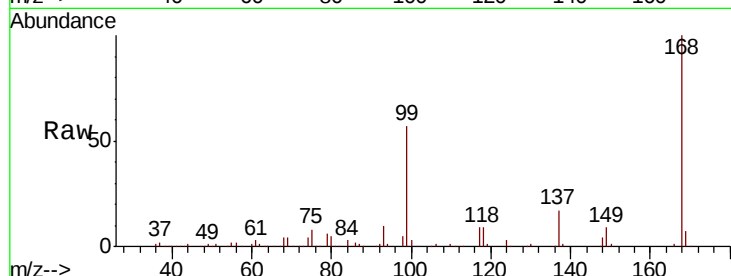
LF014MW005-190530

Tot Ion:168 Resp: 178946

Ion Ratio Lower Upper

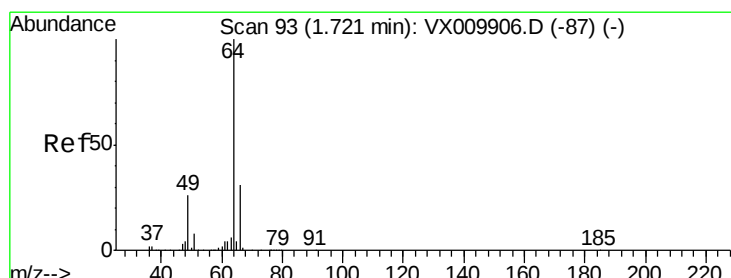
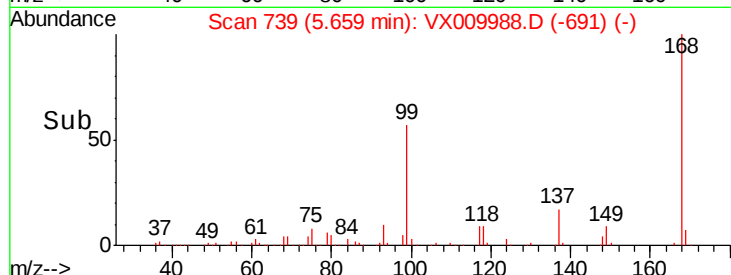
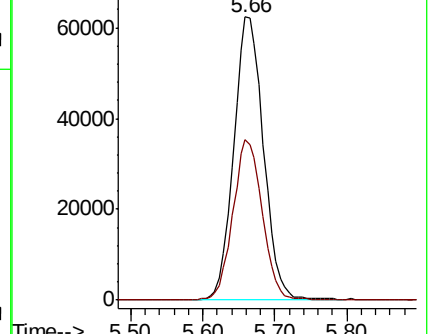
168 100

99 56.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 5.786 ug/l

RT: 1.59 min Scan# 71

Delta R.T. -0.13 min

Lab File: VX009988.D

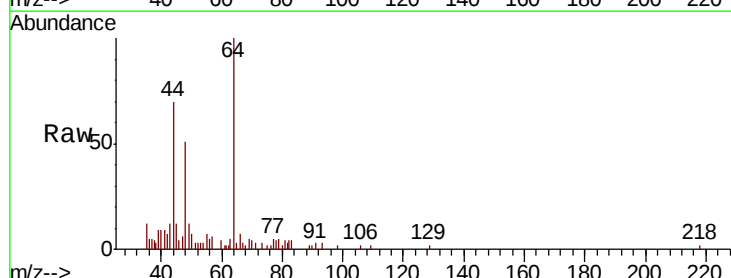
Acq: 31 May 2019 16:23

Tgt Ion: 64 Resp: 9439

Ion Ratio Lower Upper

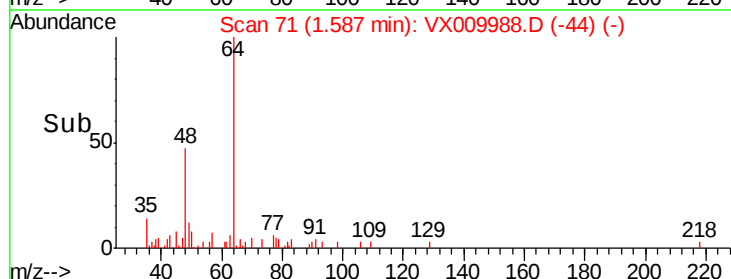
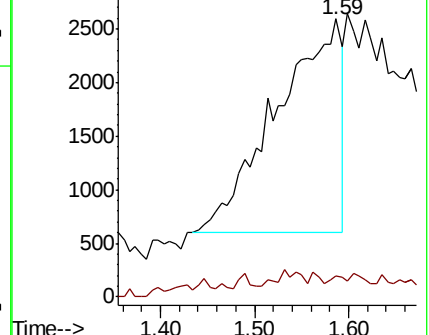
64 100

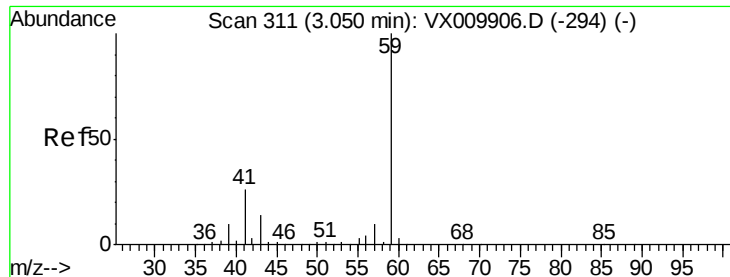
66 6.3 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

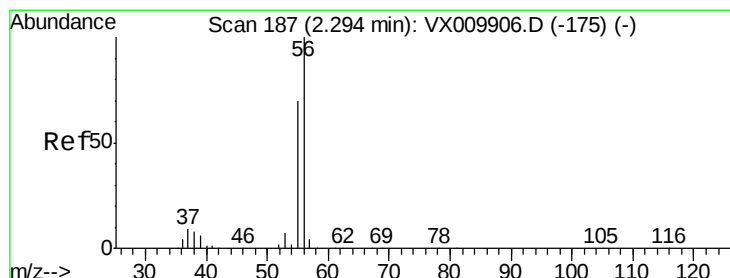
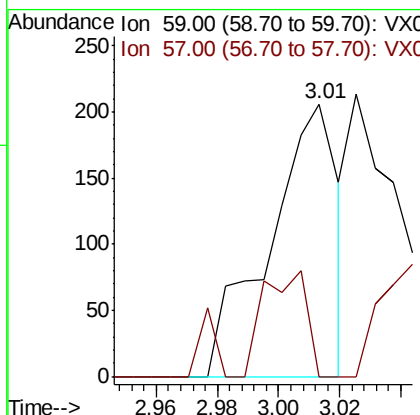
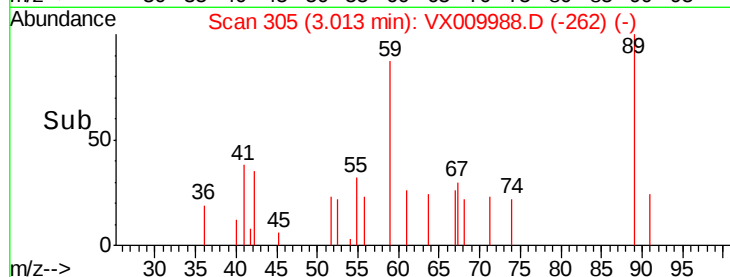
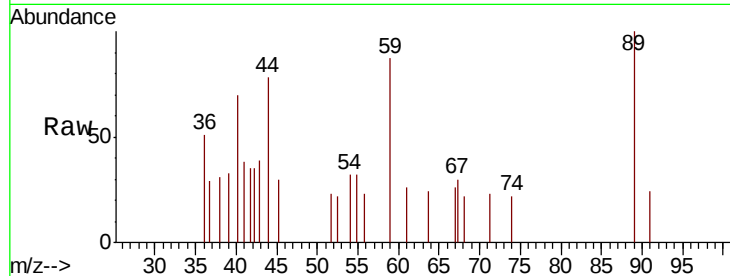




#11
Tert butyl alcohol
Concen: 0.516 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

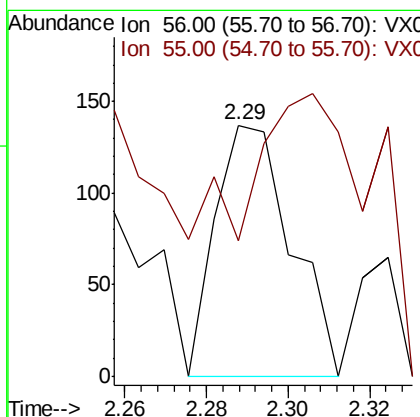
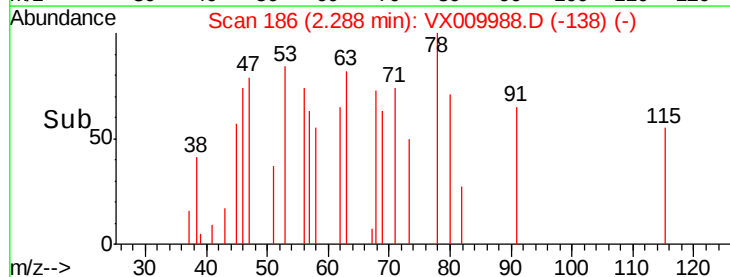
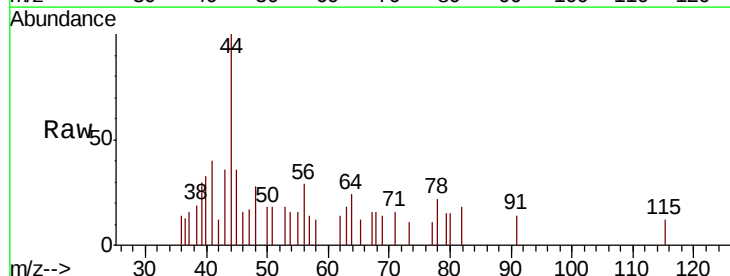
Instrument :
MSVOA_X
ClientSampleId :
LF014MW005-190530

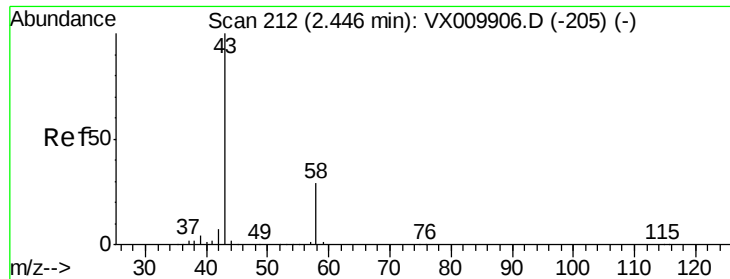
Tot Ion: 59 Resp: 321
Ion Ratio Lower Upper
59 100
57 24.6 8.2 12.2#



#13
Acrolein
Concen: 21.464 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

Tgt Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 162.7 57.0 85.4#





#16

Acetone

Concen: 1.024 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

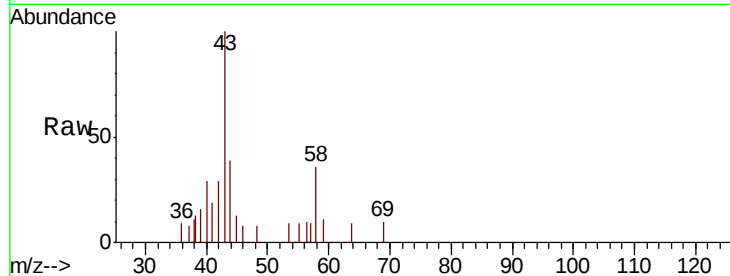
LF014MW005-190530

Tot Ion: 43 Resp: 1496

Ion Ratio Lower Upper

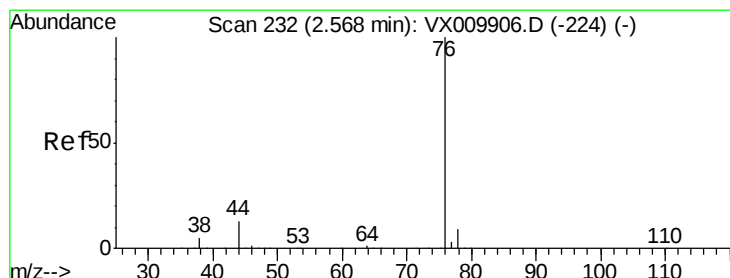
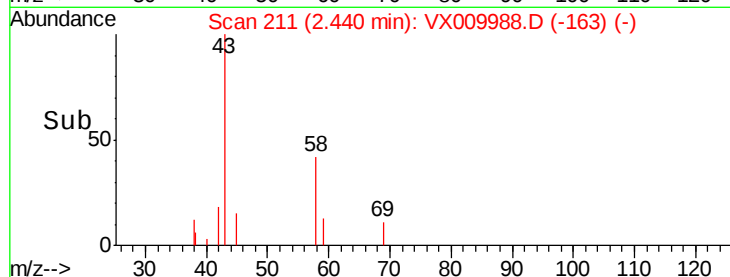
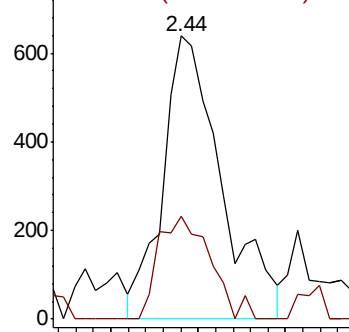
43 100

58 39.8 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.526 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009988.D

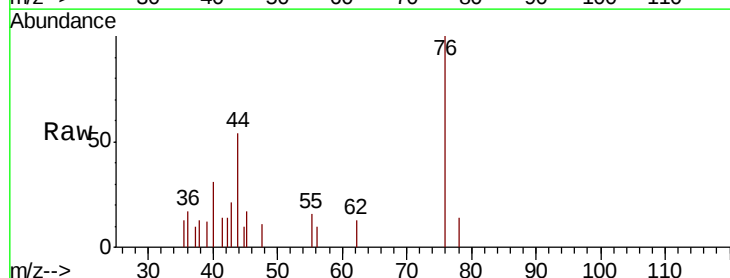
Acq: 31 May 2019 16:23

Tgt Ion: 76 Resp: 780

Ion Ratio Lower Upper

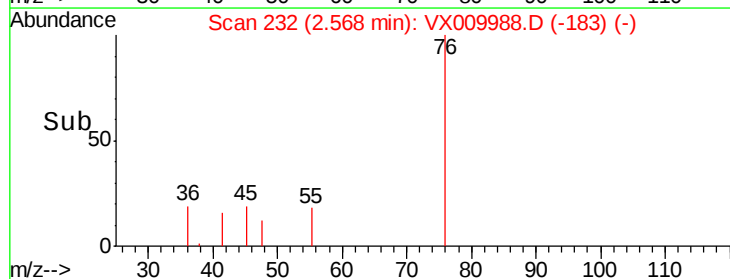
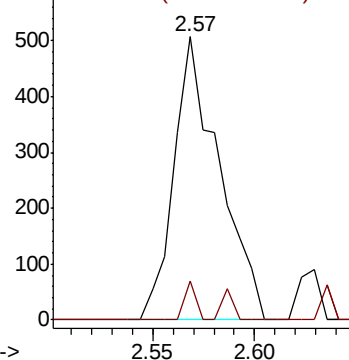
76 100

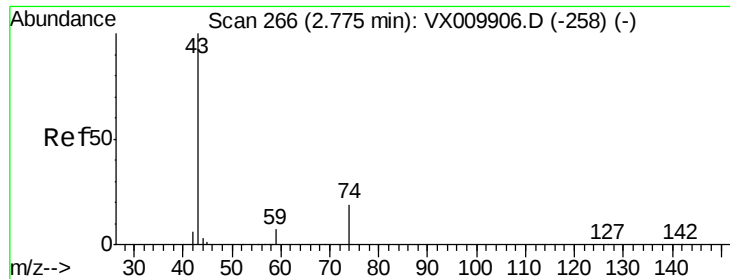
78 13.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

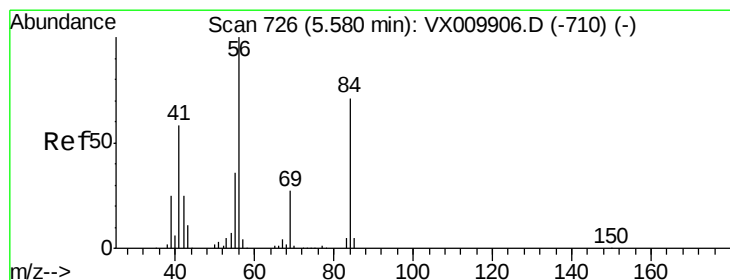
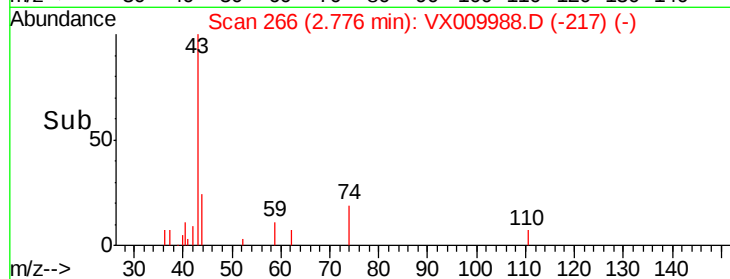
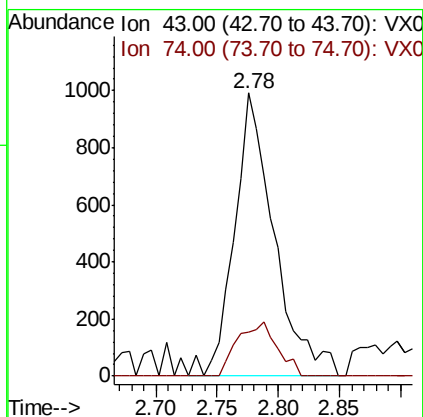
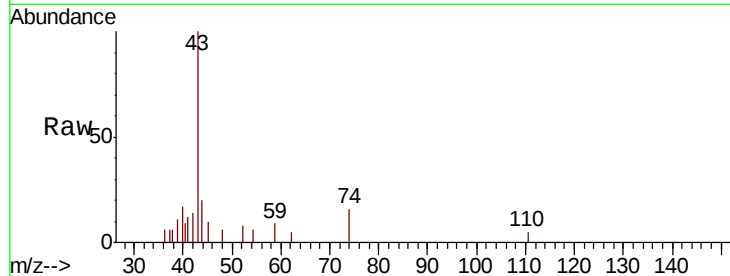




#18
Methvl Acetate
Concen: 0.660 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

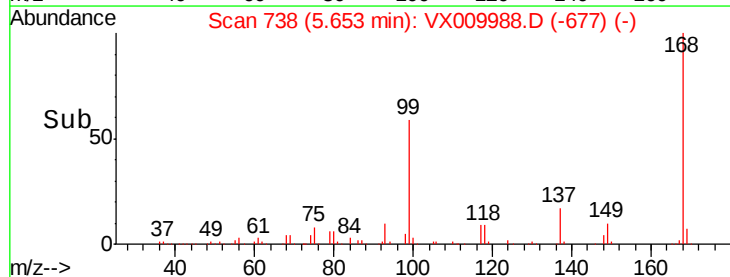
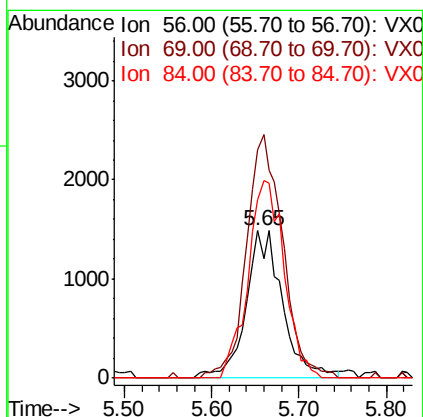
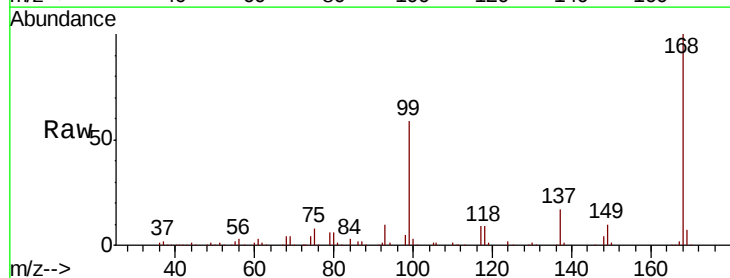
Instrument :
MSVOA_X
ClientSampleId :
LF014MW005-190530

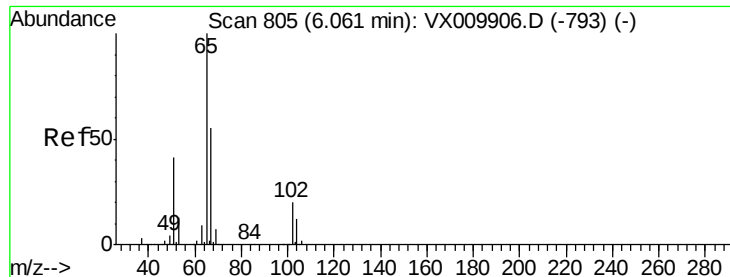
Tot Ion: 43 Resp: 2244
Ion Ratio Lower Upper
43 100
74 18.9 15.8 23.6



#31
Cyclohexane
Concen: 1.121 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

Tgt Ion: 56 Resp: 4313
Ion Ratio Lower Upper
56 100
69 155.0 21.6 32.4#
84 121.5 56.8 85.2#





#33

1,2-Dichloroethane-d4

Concen: 48.686 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

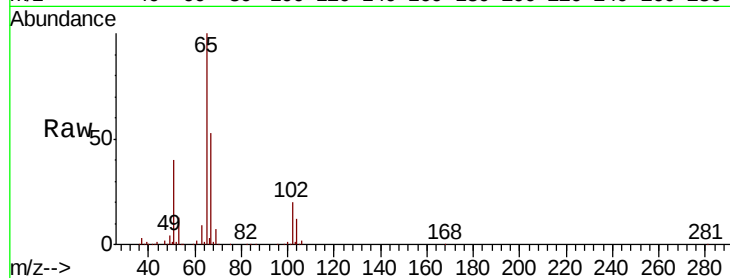
LF014MW005-190530

Tot Ion: 65 Resp: 123067

Ion Ratio Lower Upper

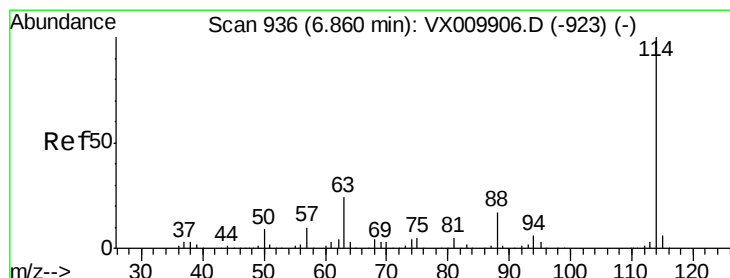
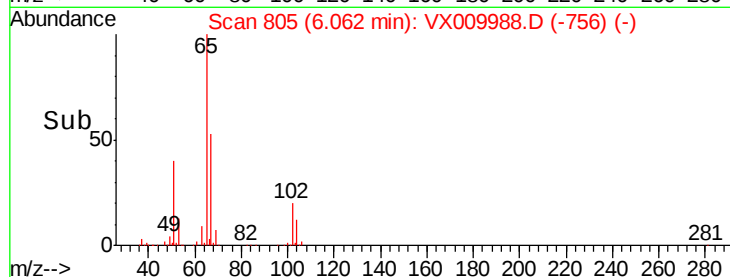
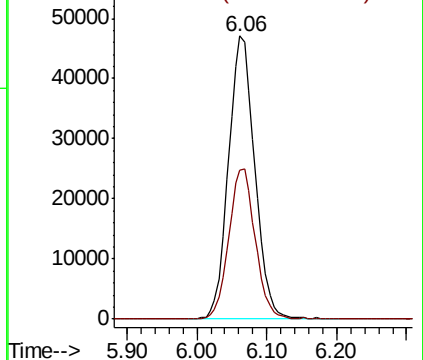
65 100

67 53.0 0.0 108.4



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: VX009988.D

Acq: 31 May 2019 16:23

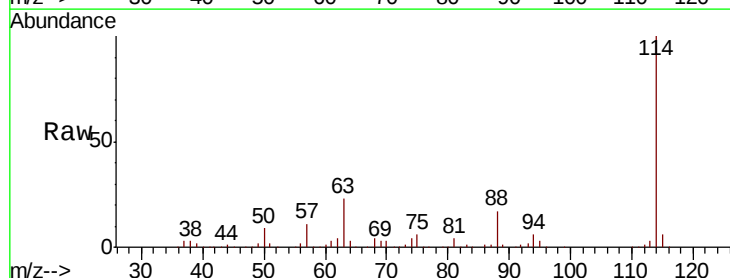
Tgt Ion: 114 Resp: 292343

Ion Ratio Lower Upper

114 100

63 22.7 0.0 47.4

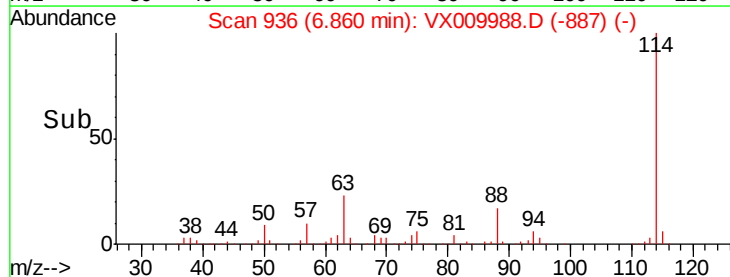
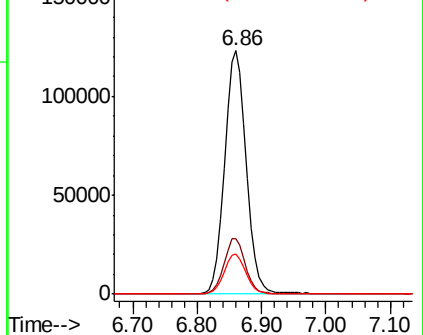
88 16.6 0.0 33.0

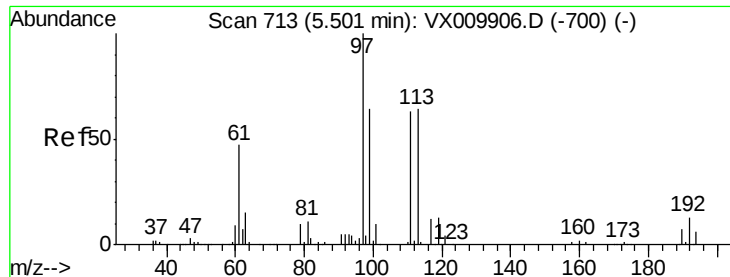


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.045 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

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LF014MW005-190530

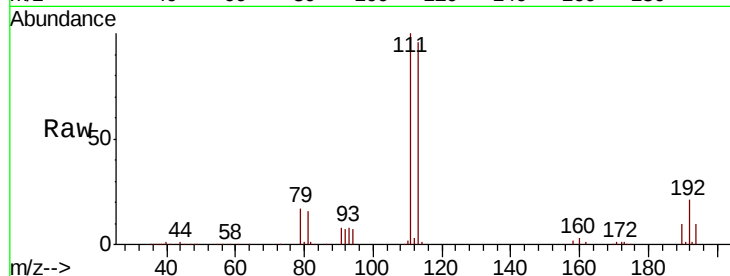
Tot Ion:113 Resp: 90143

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.2

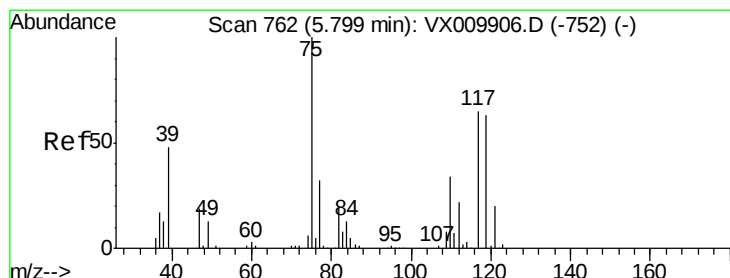
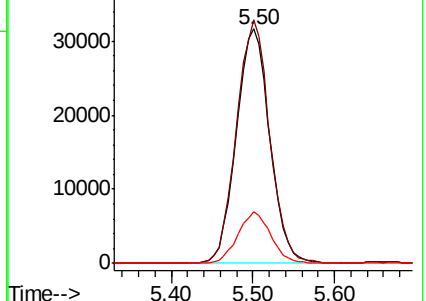
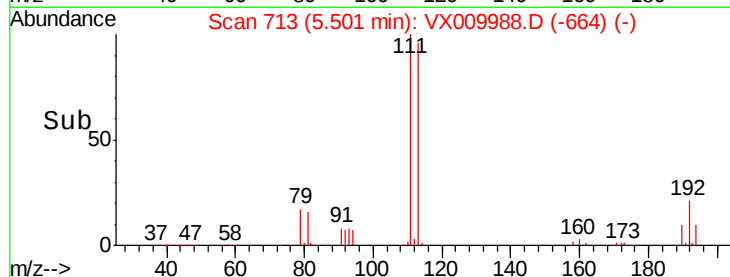
192 21.5 17.1 25.7



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: 4.797 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

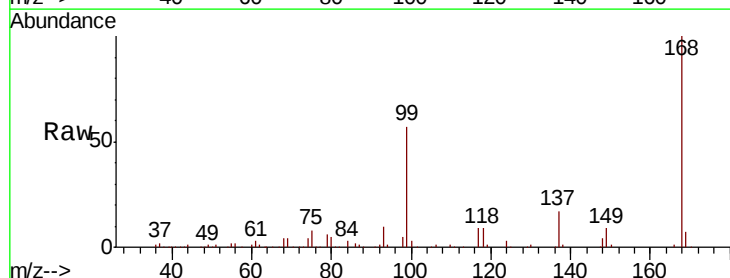
Tgt Ion: 75 Resp: 14230

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.1#

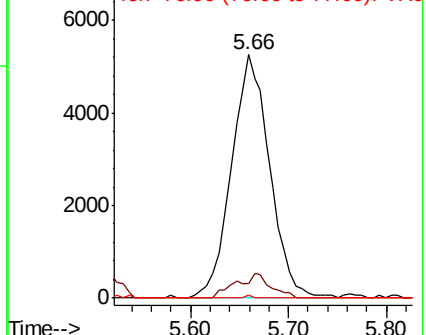
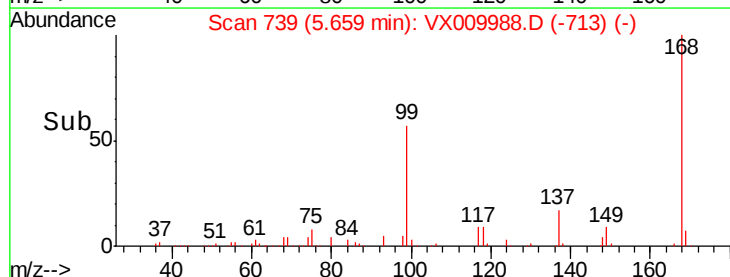
77 0.2 25.0 37.4#

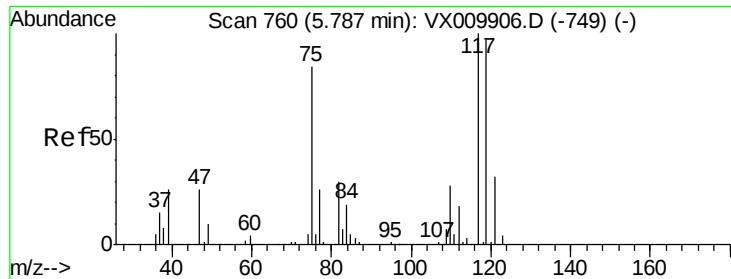


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.623 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

LF014MW005-190530

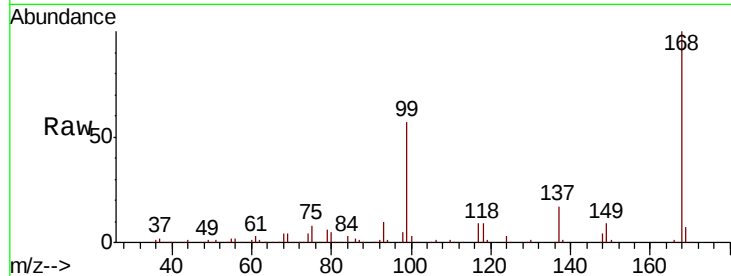
Tot Ion:117 Resp: 16975

Ion Ratio Lower Upper

117 100

119 7.5 77.3 115.9#

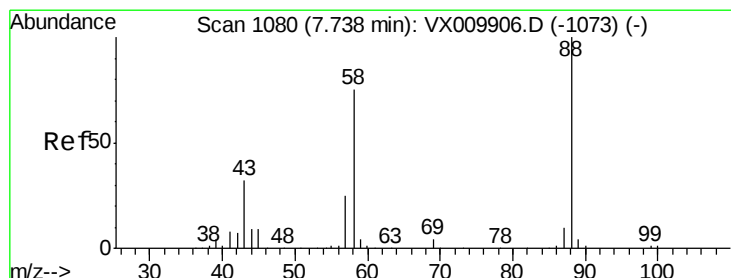
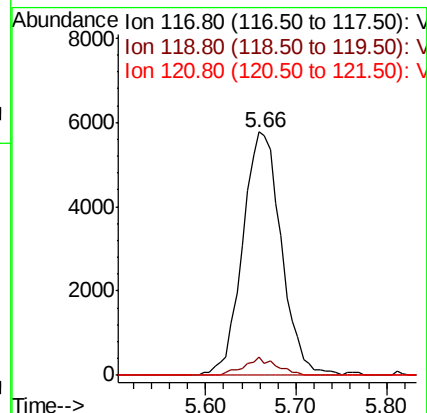
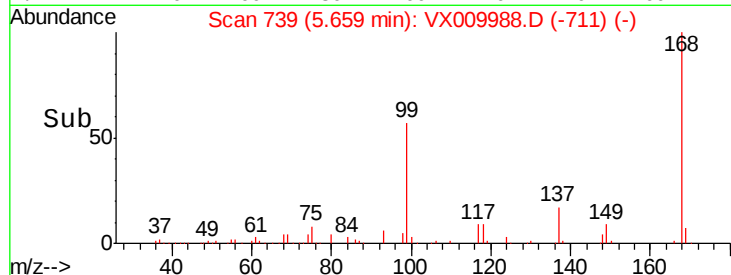
121 0.0 25.4 38.0#



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



#49

1,4-Dioxane

Concen: 0.326 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

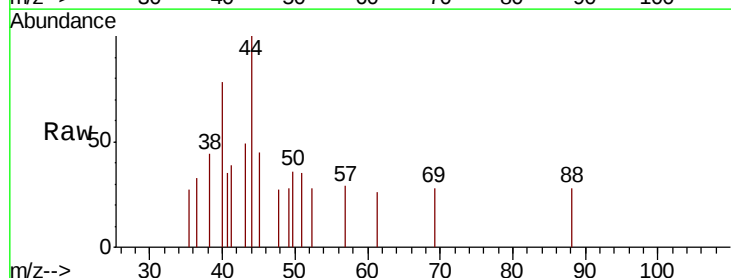
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 195.0 30.2 45.4#

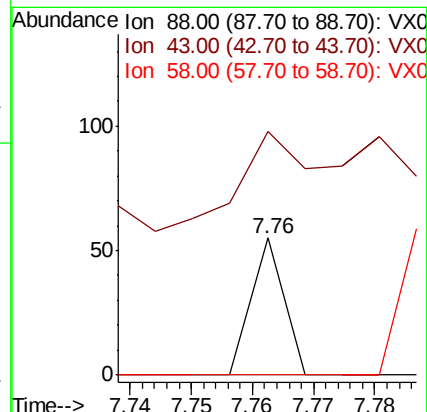
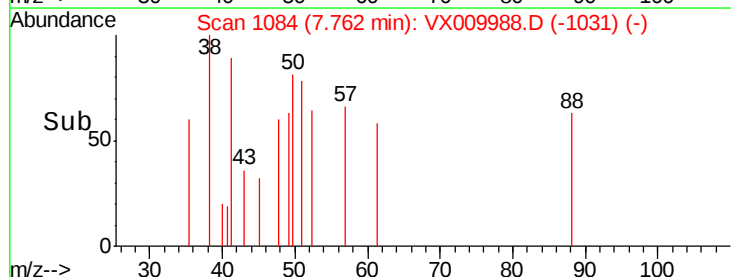
58 0.0 64.0 96.0#

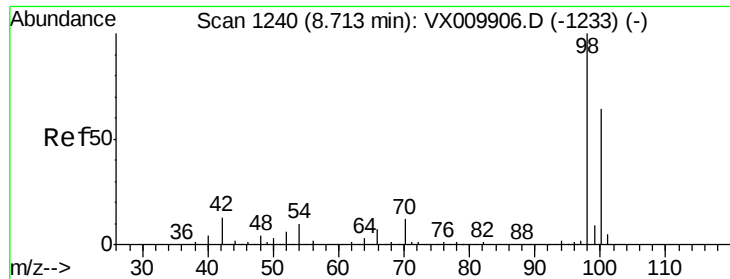


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.299 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

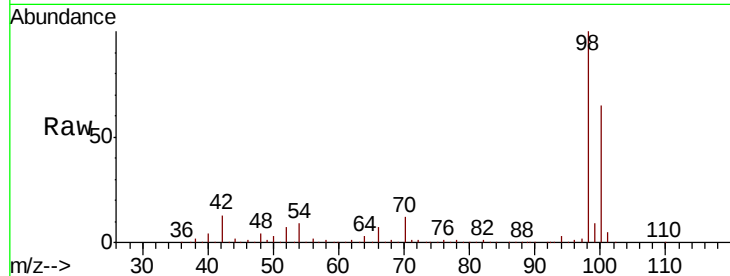
LF014MW005-190530

Tot Ion: 98 Resp: 375410

Ion Ratio Lower Upper

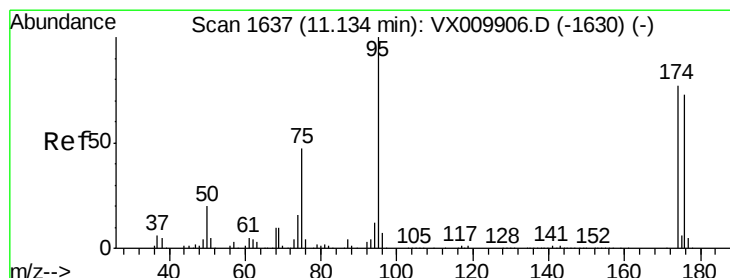
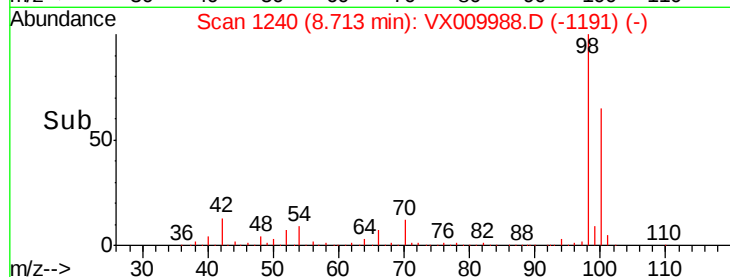
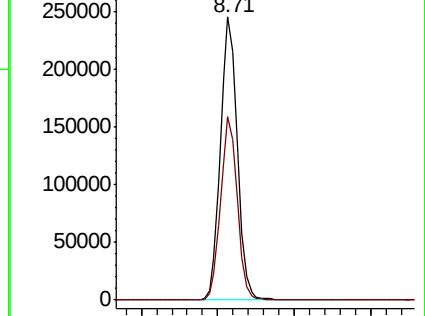
98 100

100 63.9 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 47.972 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

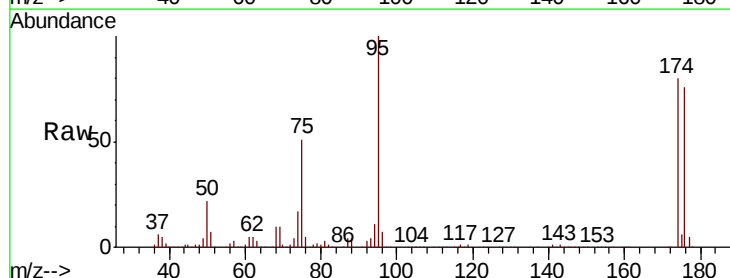
Tgt Ion: 95 Resp: 128604

Ion Ratio Lower Upper

95 100

174 82.5 0.0 160.4

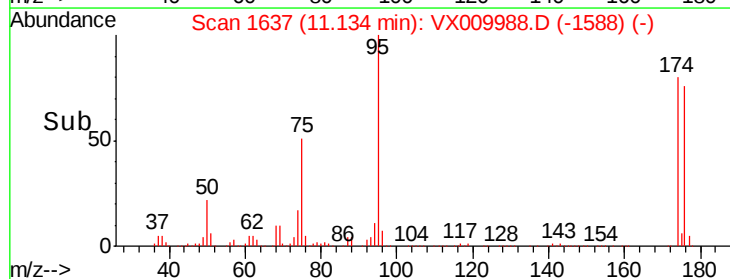
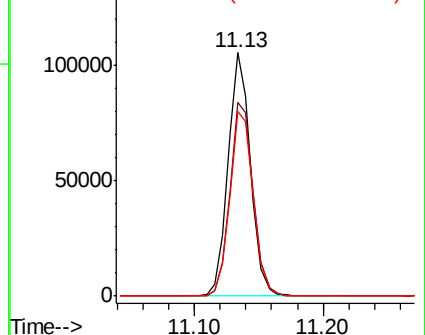
176 79.6 0.0 154.6

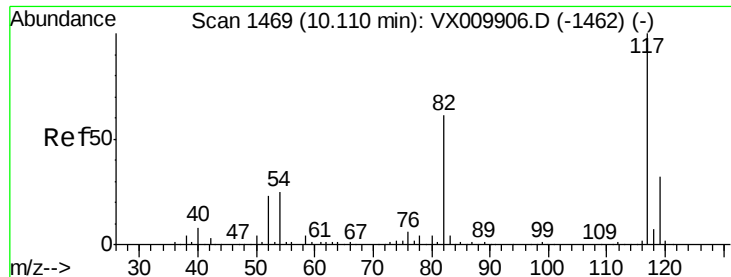


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

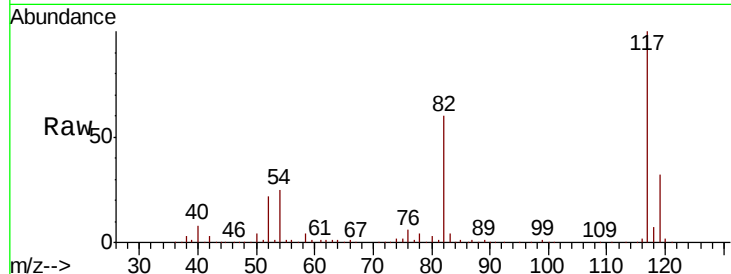




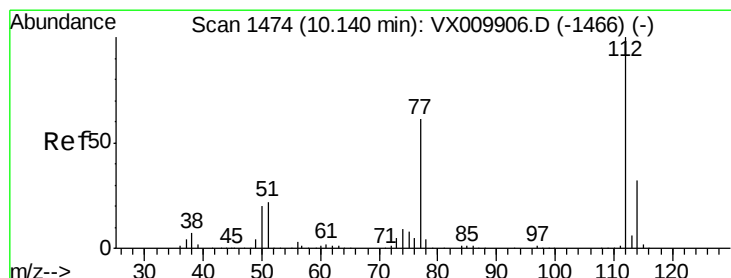
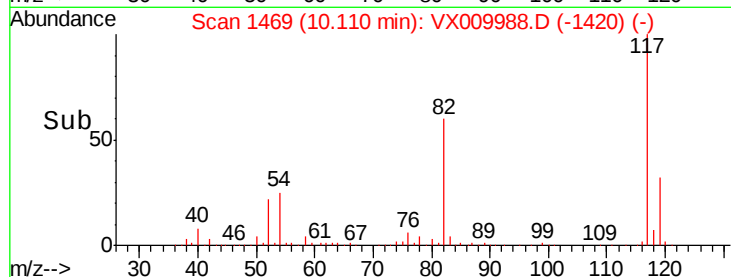
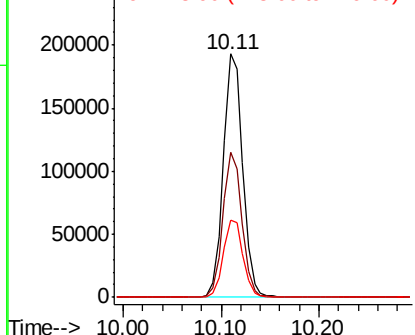
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

Instrument :
MSVOA_X
ClientSampleId :
LF014MW005-190530

Tot Ion:117 Resp: 265544
Ion Ratio Lower Upper
117 100
82 59.7 49.2 73.8
119 31.5 25.2 37.8

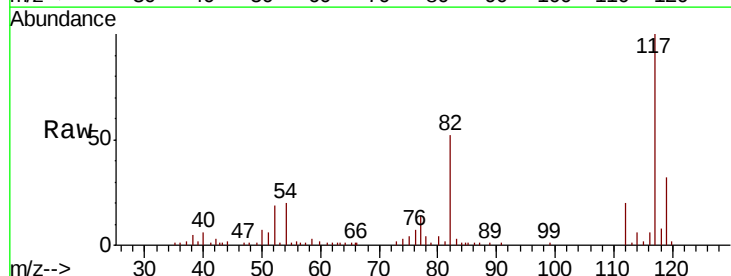


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

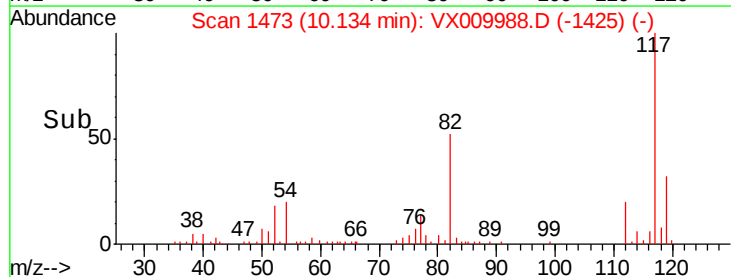
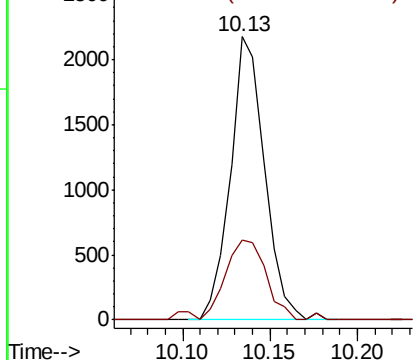


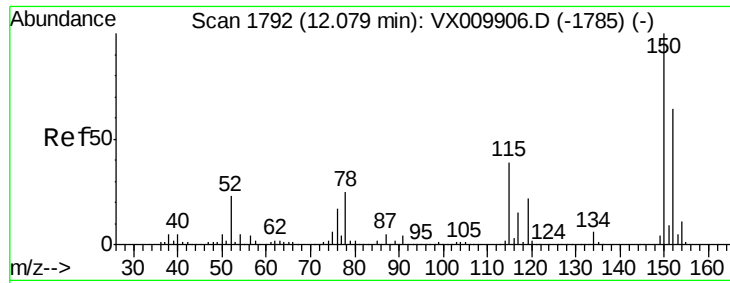
#65
Chlorobenzene
Concen: 0.533 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

Tgt Ion:112 Resp: 2964
Ion Ratio Lower Upper
112 100
114 28.3 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V



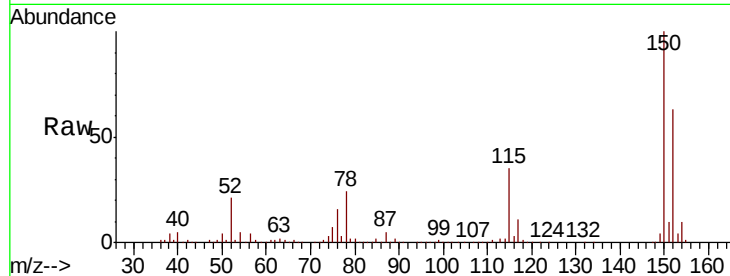


#72

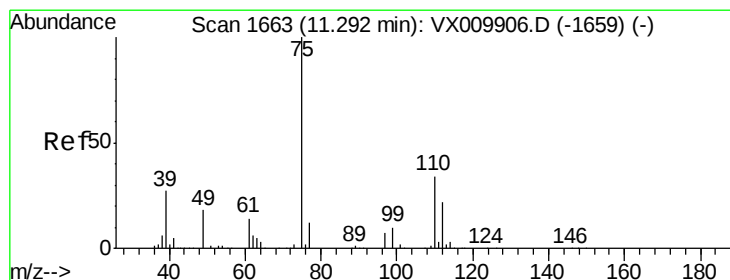
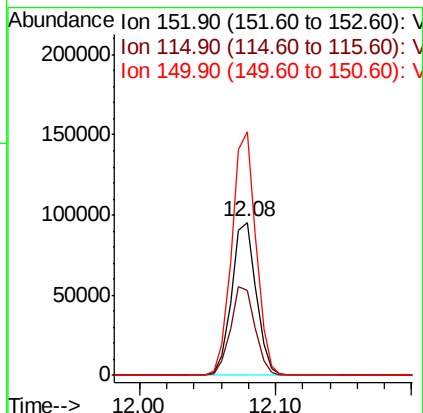
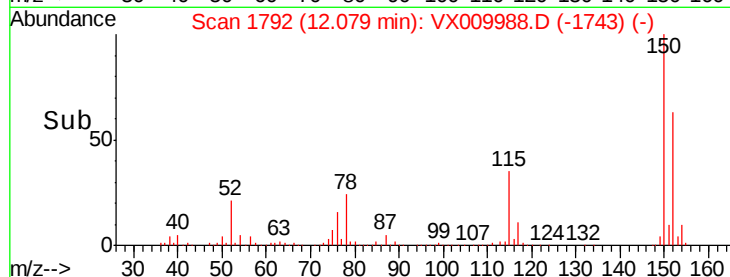
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

Instrument :
MSVOA_X
ClientSampleId :
LF014MW005-190530

Tot Ion:152 Resp: 119411
Ion Ratio Lower Upper
152 100
115 58.4 41.4 124.2
150 157.1 0.0 345.2



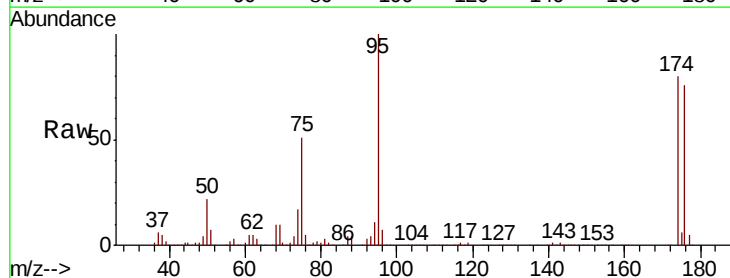
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



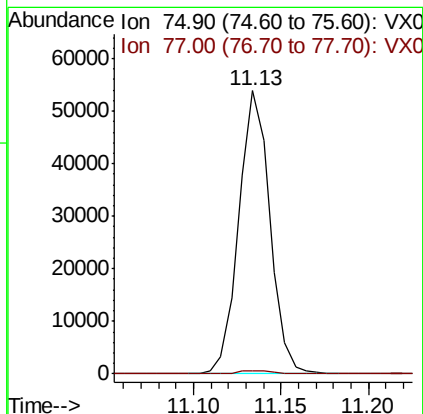
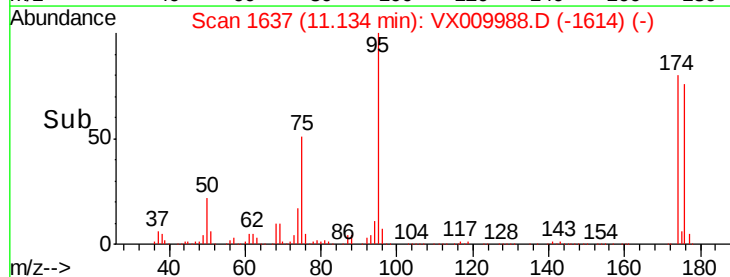
#76

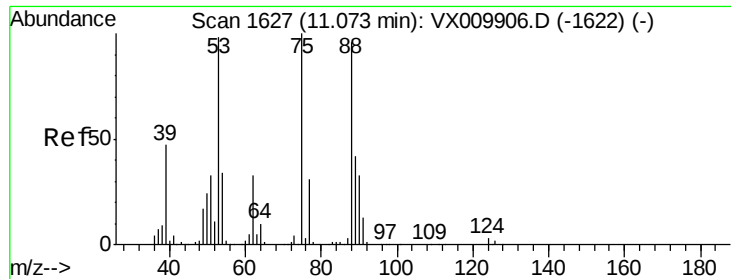
1,2,3-Trichloropropane
Concen: 23.266 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009988.D
Acq: 31 May 2019 16:23

Tgt Ion: 75 Resp: 66436
Ion Ratio Lower Upper
75 100
77 1.2 22.1 66.1#



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: 57.564 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009988.D

Acq: 31 May 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

LF014MW005-190530

Tot Ion: 75 Resp: 66436

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.1 34.2 51.4#

