

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO053119\
 Data File : VX010013.D
 Acq On : 01 Jun 2019 03:18
 Operator : JC/SP
 Sample : K3129-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW007-190528

Quant Time: Jun 01 04:49:33 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	5.67	168	177965	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	286647	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	260356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113579	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	119157	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
35) Dibromofluoromethane	5.51	113	88024	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
50) Toluene-d8	8.71	98	365420	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.13	95	123504	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	

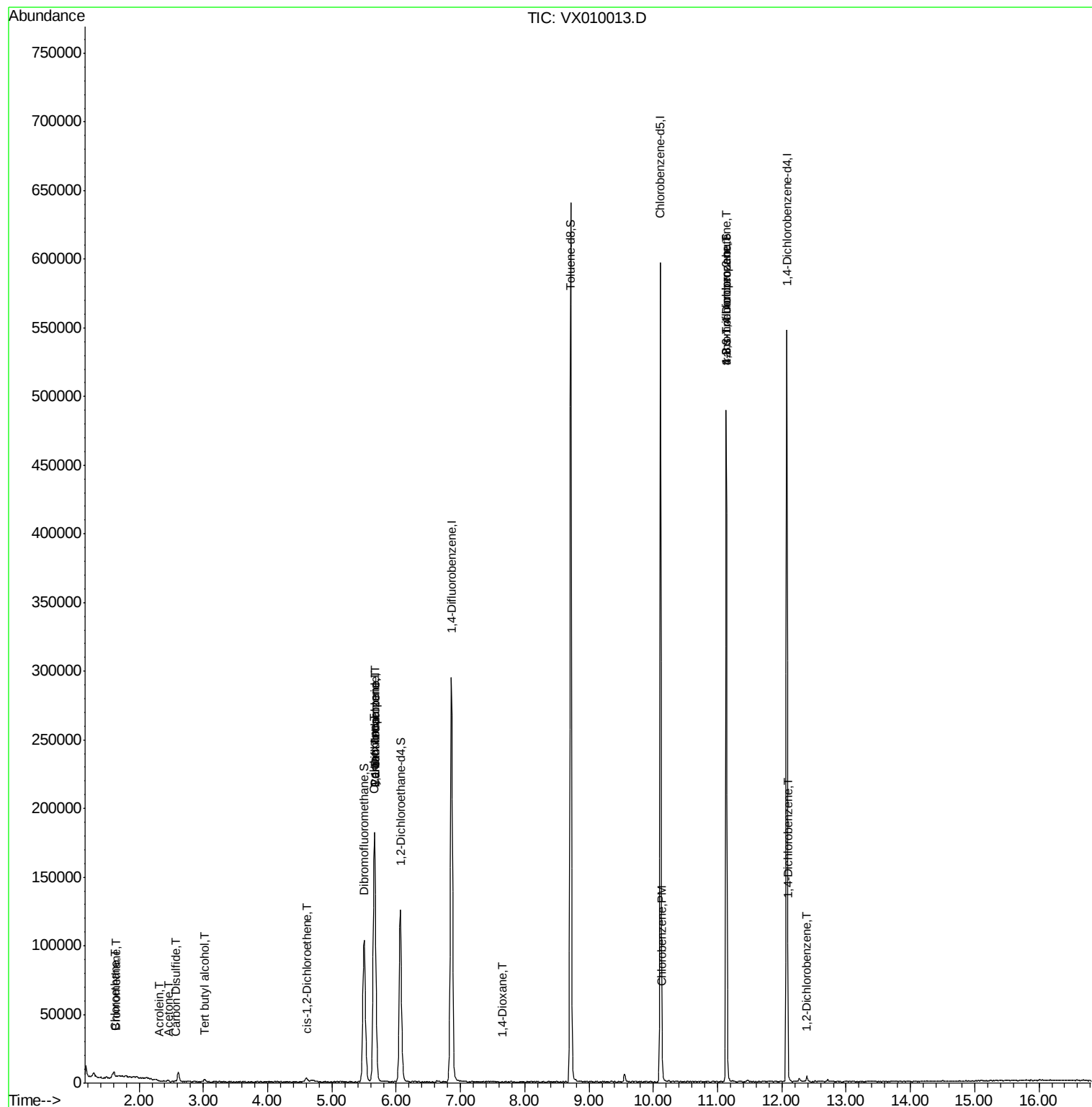
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	360	0.225	ug/l #	80
6) Chloroethane	1.63	64	4216	2.599	ug/l #	58
11) Tert butyl alcohol	3.02	59	1082	1.749	ug/l #	85
13) Acrolein	2.31	56	96	21.297	ug/l	98
16) Acetone	2.45	43	1007	0.693	ug/l #	82
17) Carbon Disulfide	2.57	76	595	0.493	ug/l #	76
27) cis-1,2-Dichloroethene	4.60	96	1435	0.620	ug/l	93
31) Cyclohexane	5.65	56	3983	1.041	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13453	4.626	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16480	6.557	ug/l #	16
49) 1,4-Dioxane	7.65	88	39	0.648	ug/l #	24
65) Chlorobenzene	10.14	112	3947	0.724	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	63144	23.249	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63144	57.521	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	1070	0.276	ug/l #	62
91) 1,2-Dichlorobenzene	12.39	146	1130	0.301	ug/l	98

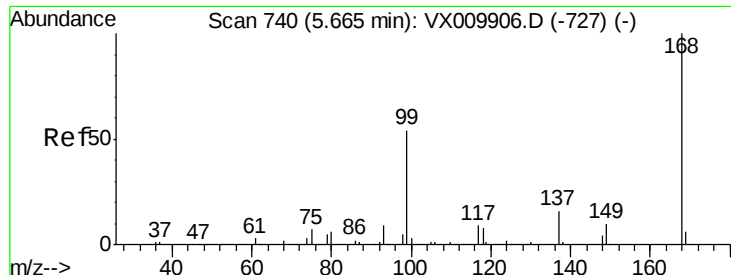
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 29 04:00:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

MSVOA_X

ClientSampleId :

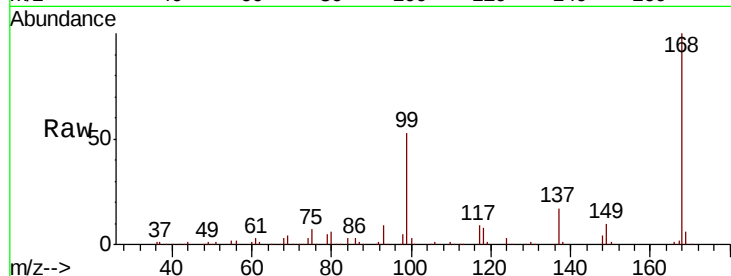
LF012MW007-190528

Tot Ion:168 Resp: 177965

Ion Ratio Lower Upper

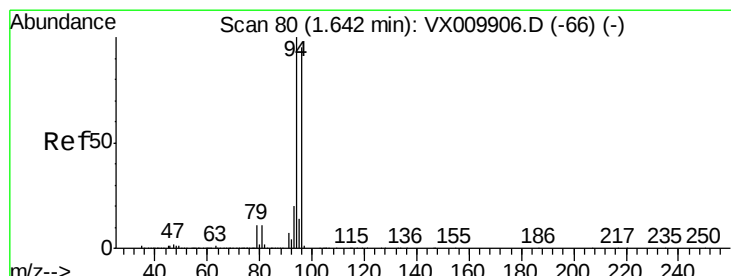
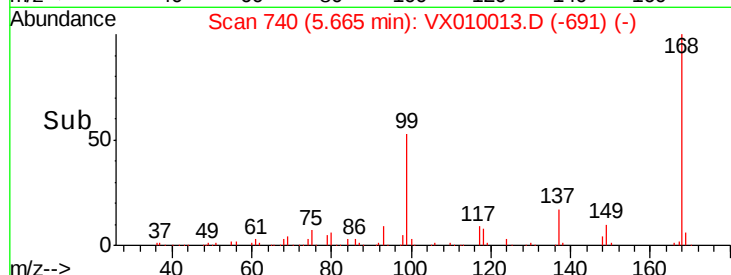
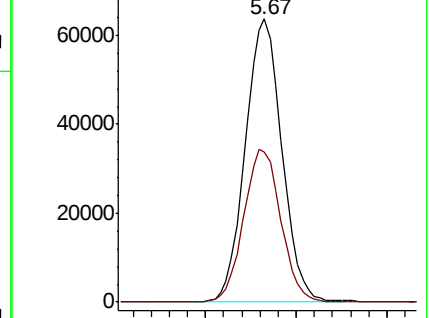
168 100

99 52.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.225 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX010013.D

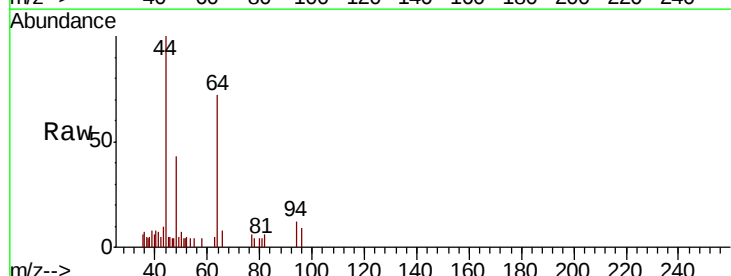
Acq: 01 Jun 2019 03:18

Tgt Ion: 94 Resp: 360

Ion Ratio Lower Upper

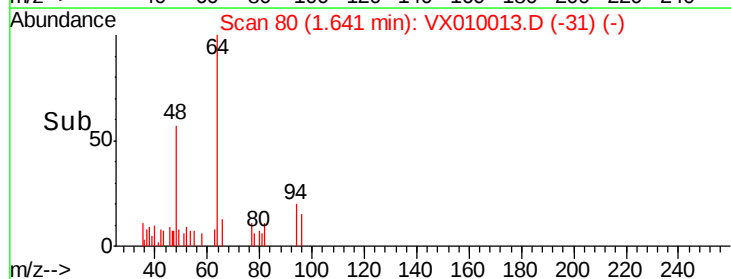
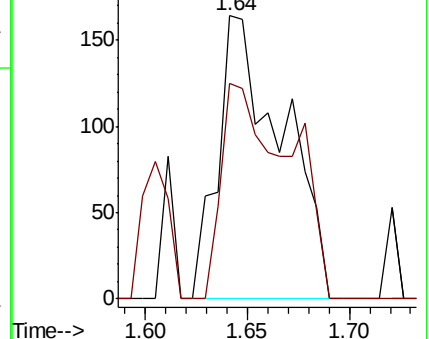
94 100

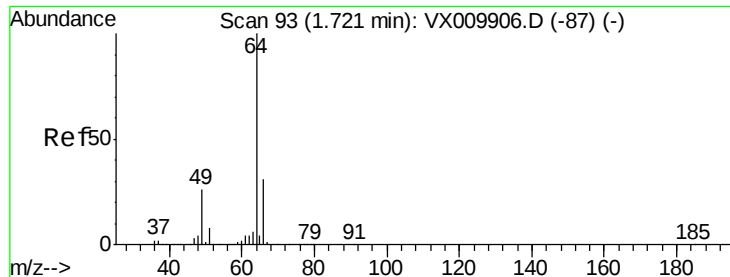
96 76.2 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 2.599 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.09 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

MSVOA_X

ClientSampleId :

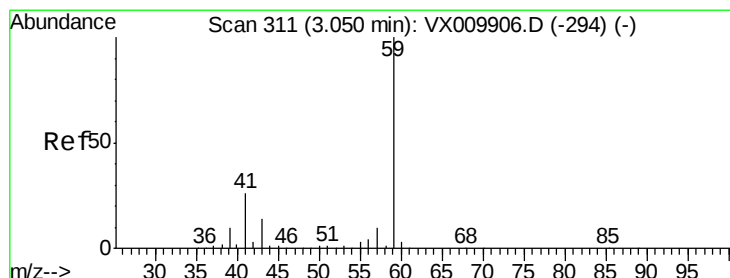
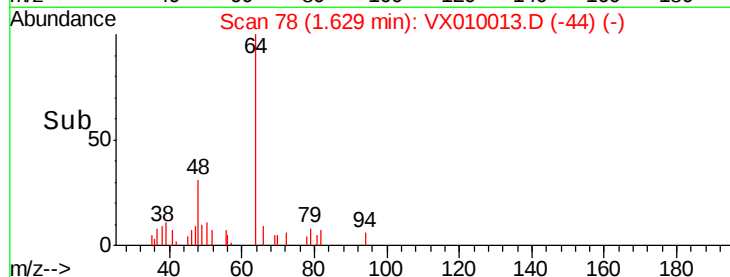
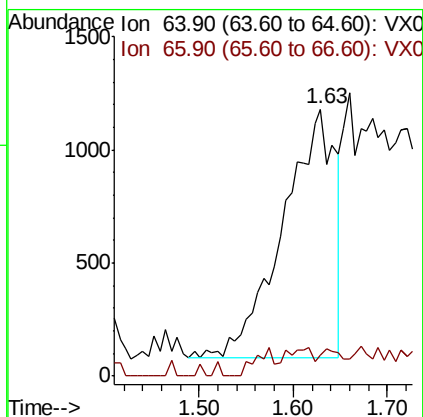
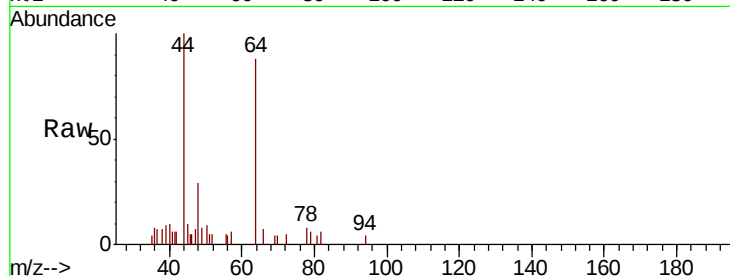
LF012MW007-190528

Tot Ion: 64 Resp: 4216

Ion Ratio Lower Upper

64 100

66 8.5 25.1 37.7#



#11

Tert butyl alcohol

Concen: 1.749 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010013.D

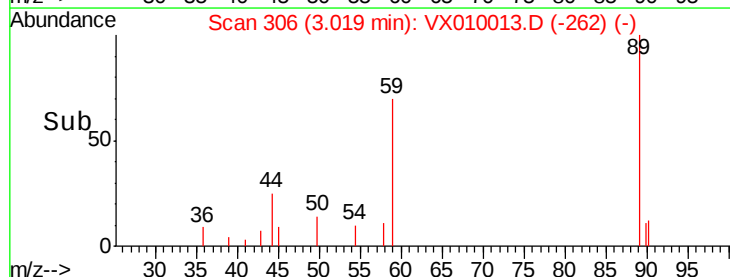
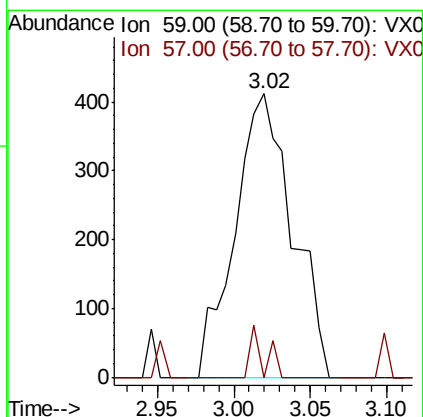
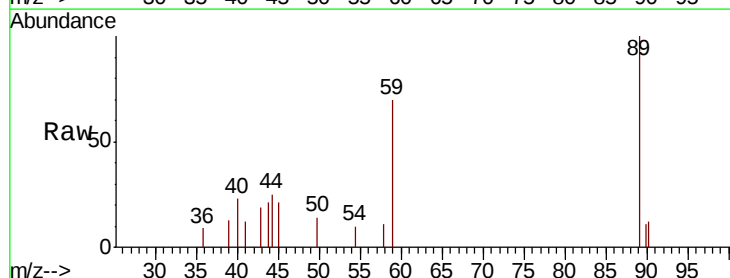
Acq: 01 Jun 2019 03:18

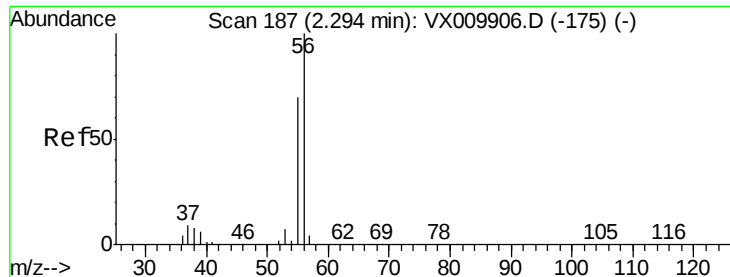
Tgt Ion: 59 Resp: 1082

Ion Ratio Lower Upper

59 100

57 4.4 8.2 12.2#





#13

Acrolein

Concen: 21.297 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

MSVOA_X

ClientSampleId :

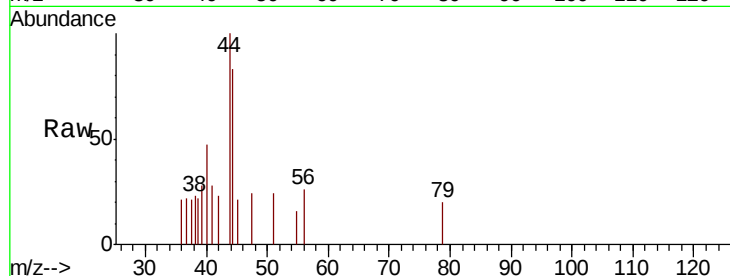
LF012MW007-190528

Tot Ion: 56 Resp: 96

Ion Ratio Lower Upper

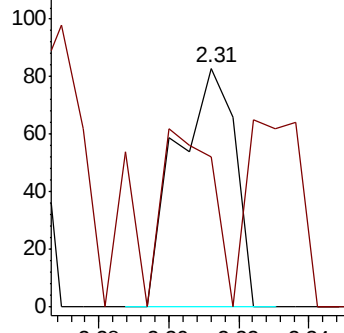
56 100

55 72.9 57.0 85.4

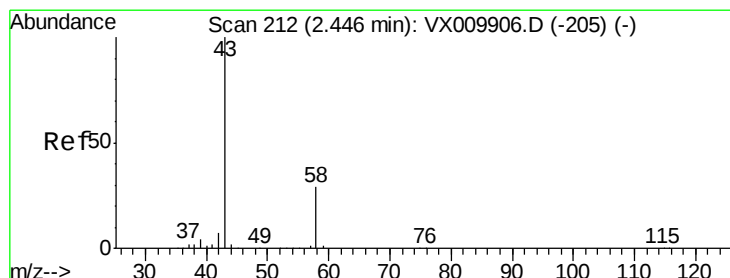
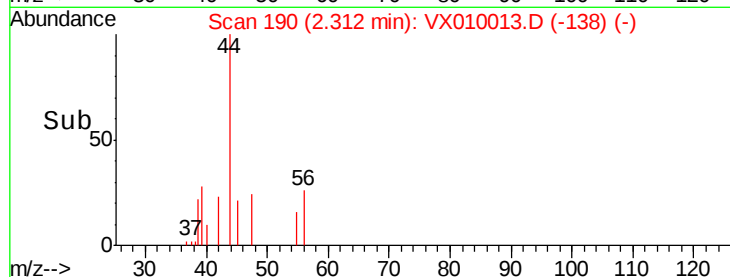


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 0.693 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010013.D

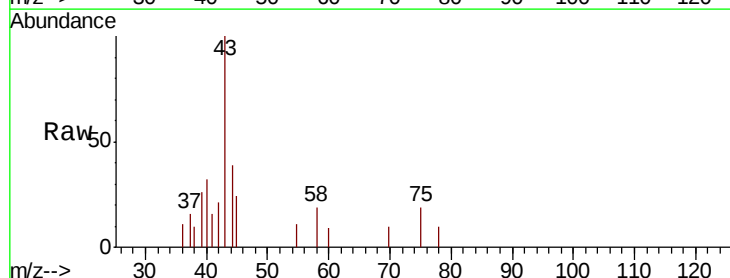
Acq: 01 Jun 2019 03:18

Tgt Ion: 43 Resp: 1007

Ion Ratio Lower Upper

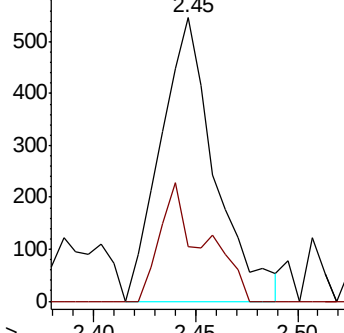
43 100

58 19.4 23.2 34.8#

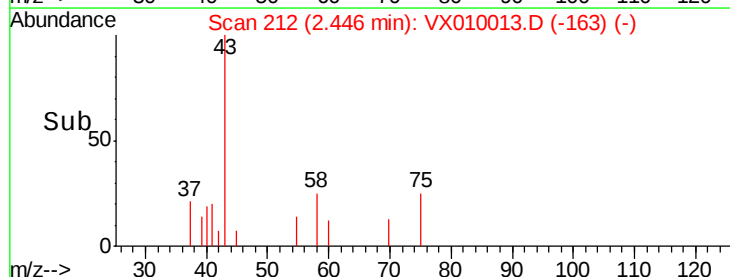


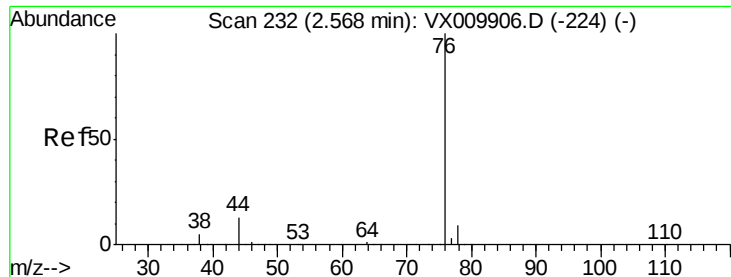
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.493 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

MSVOA_X

ClientSampleId :

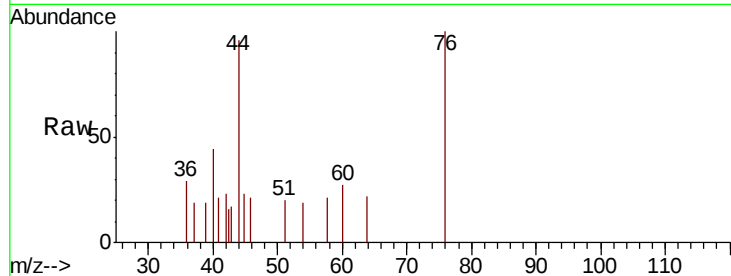
LF012MW007-190528

Tot Ion: 76 Resp: 595

Ion Ratio Lower Upper

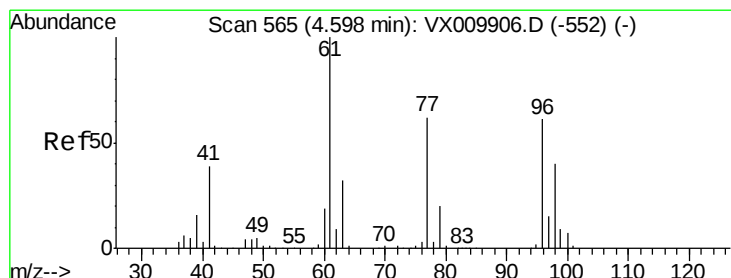
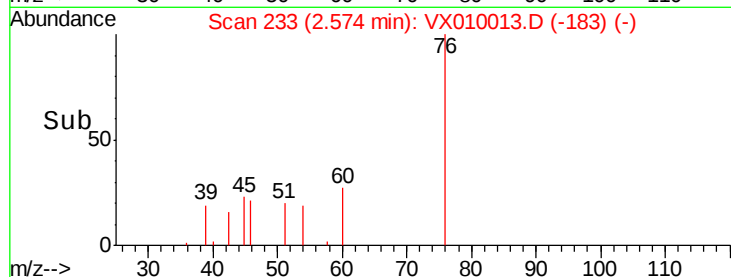
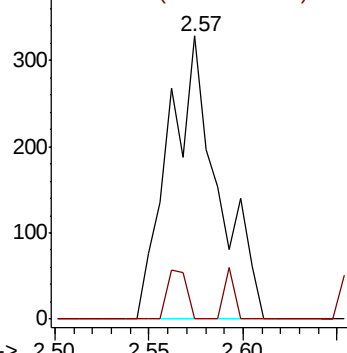
76 100

78 0.0 7.0 10.6#



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: 0.620 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

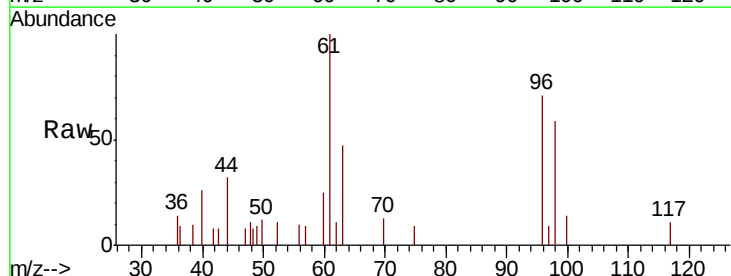
Tgt Ion: 96 Resp: 1435

Ion Ratio Lower Upper

96 100

61 161.3 0.0 334.0

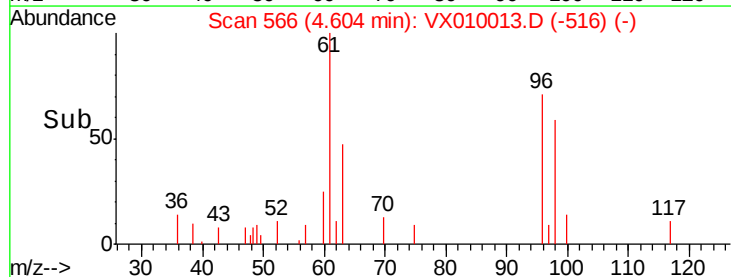
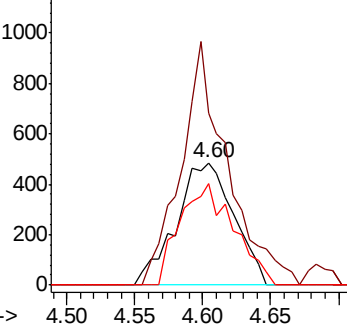
98 77.9 0.0 131.6

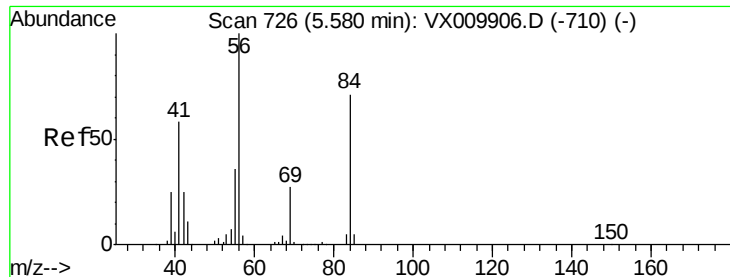


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

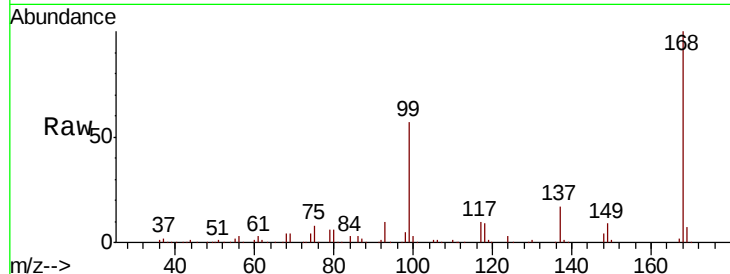




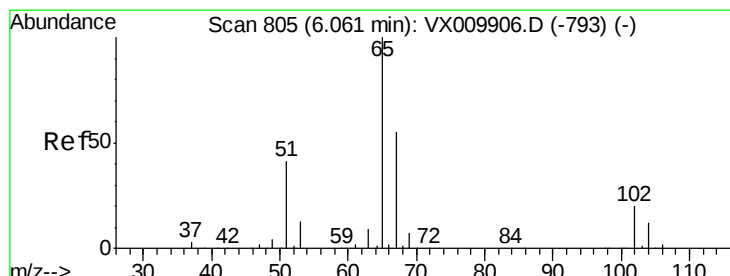
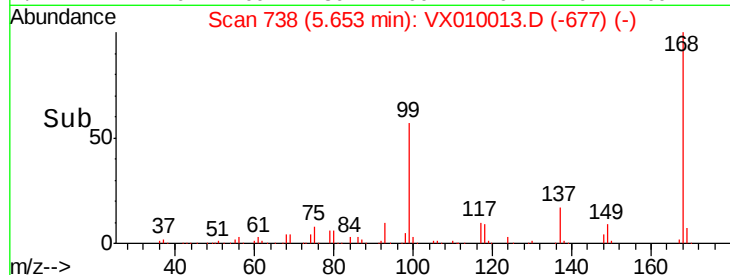
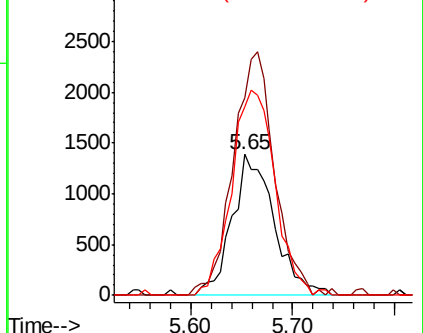
#31
Cyclohexane
Concen: 1.041 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX010013.D
Acq: 01 Jun 2019 03:18

Instrument :
MSVOA_X
ClientSampleId :
LF012MW007-190528

Tot Ion: 56 Resp: 3983
Ion Ratio Lower Upper
56 100
69 140.1 21.6 32.4#
84 133.7 56.8 85.2#

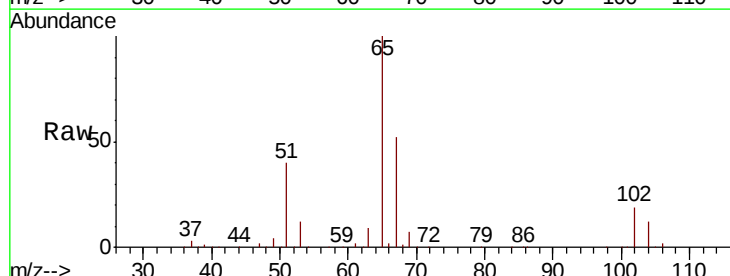


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

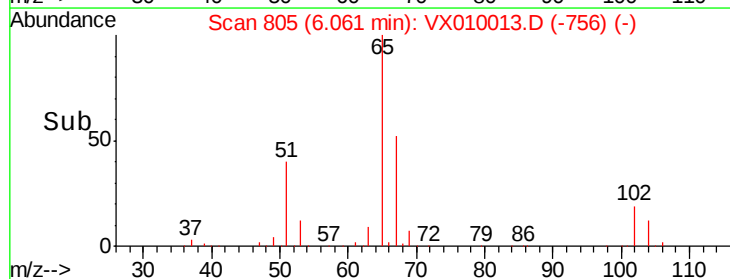
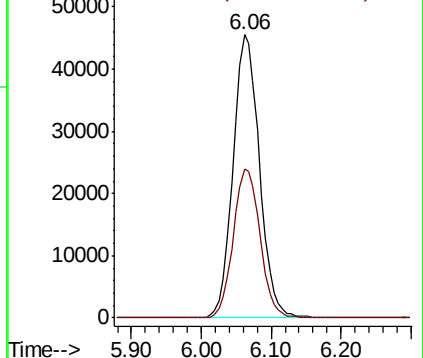


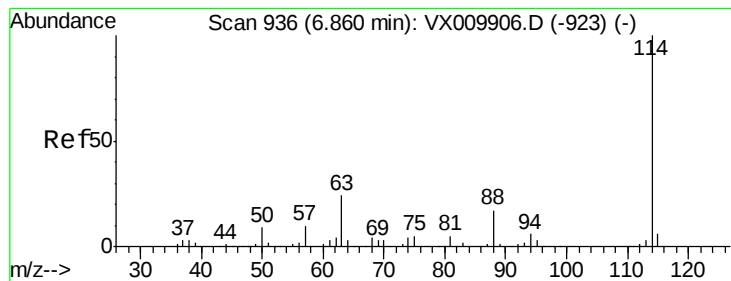
#33
1,2-Dichloroethane-d4
Concen: 47.399 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX010013.D
Acq: 01 Jun 2019 03:18

Tgt Ion: 65 Resp: 119157
Ion Ratio Lower Upper
65 100
67 53.5 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: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

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ClientSampleId :

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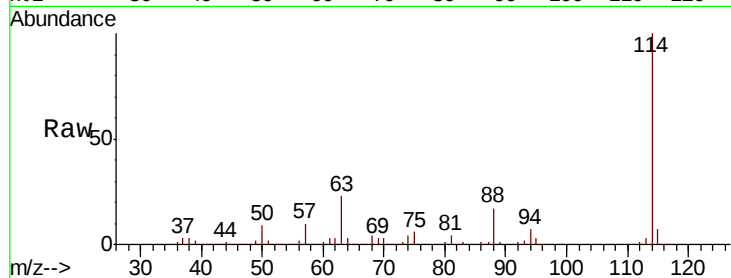
Tot Ion:114 Resp: 286647

Ion Ratio Lower Upper

114 100

63 22.9 0.0 47.4

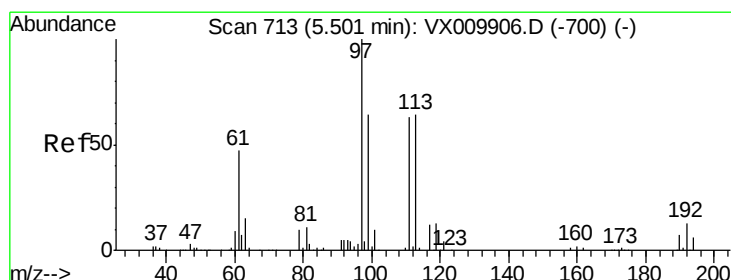
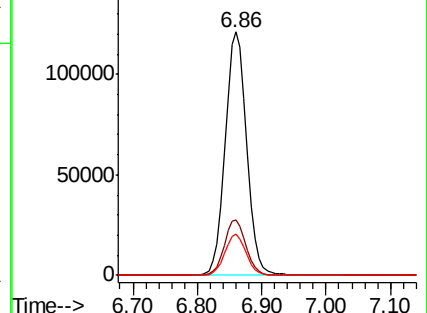
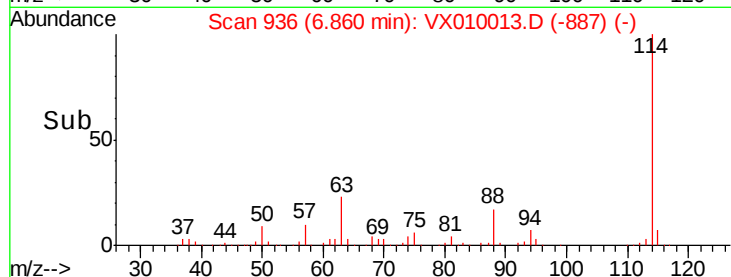
88 17.1 0.0 33.0



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: 48.844 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

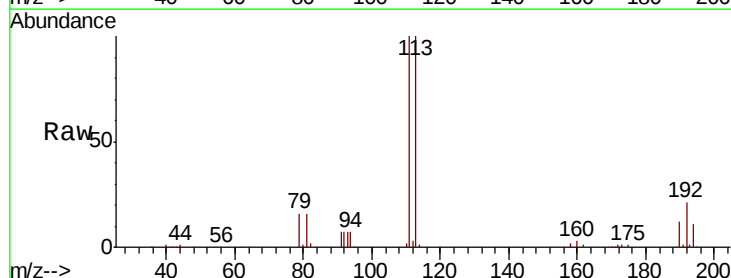
Tgt Ion:113 Resp: 88024

Ion Ratio Lower Upper

113 100

111 103.8 82.2 123.2

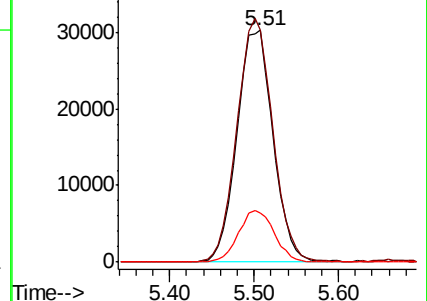
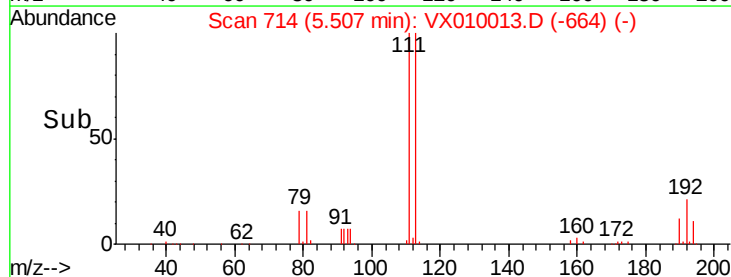
192 22.1 17.1 25.7

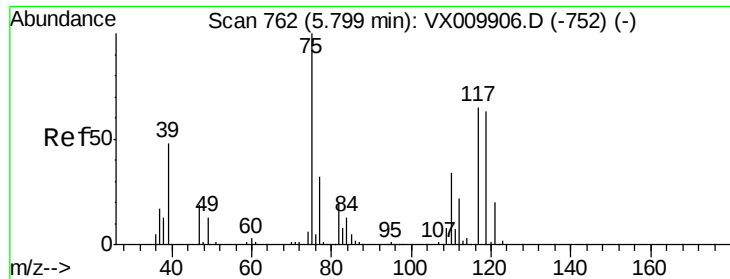


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.626 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

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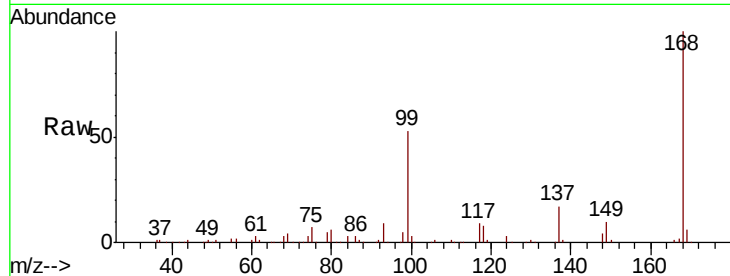
Tot Ion: 75 Resp: 13453

Ion Ratio Lower Upper

75 100

110 9.6 16.7 50.1#

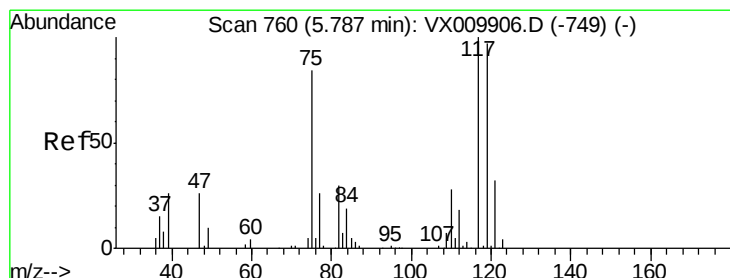
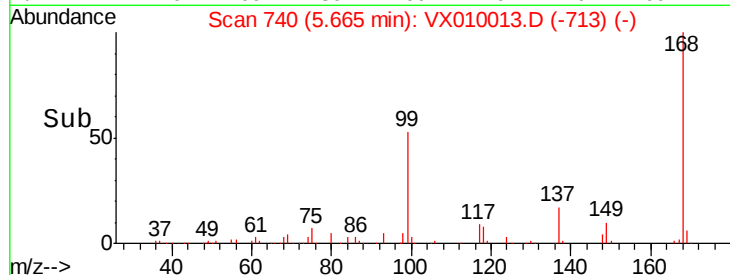
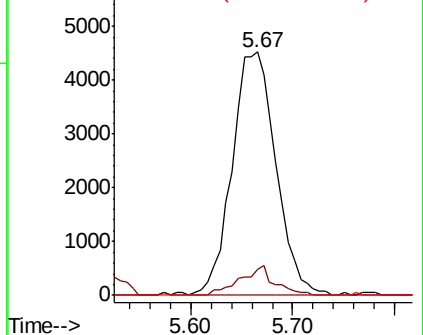
77 0.0 25.0 37.4#



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: 6.557 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

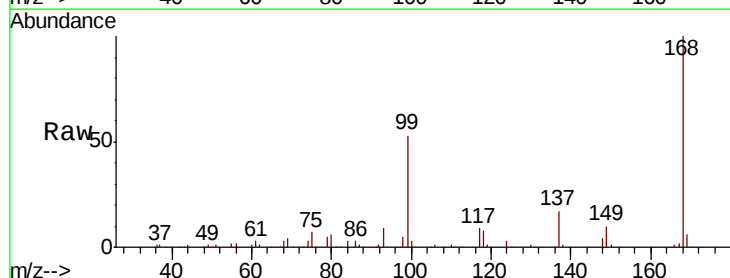
Tgt Ion: 117 Resp: 16480

Ion Ratio Lower Upper

117 100

119 6.0 77.3 115.9#

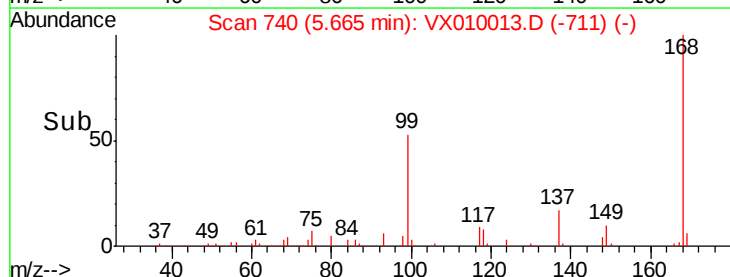
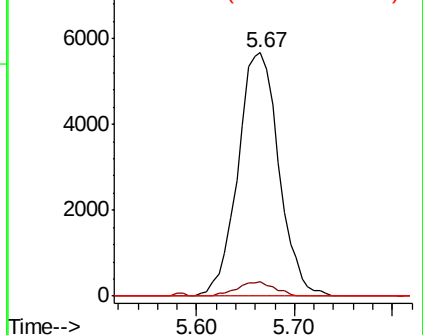
121 0.0 25.4 38.0#

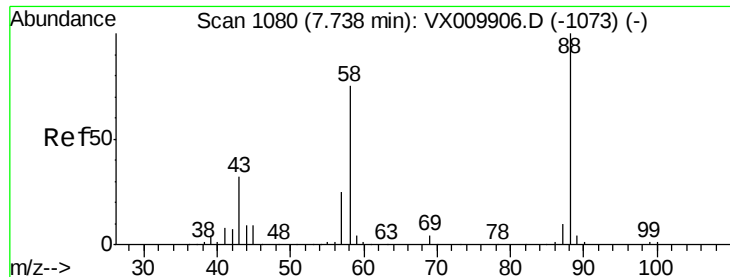


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.648 ug/l

RT: 7.65 min Scan# 1066

Delta R.T. -0.09 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

MSVOA_X

ClientSampleId :

LF012MW007-190528

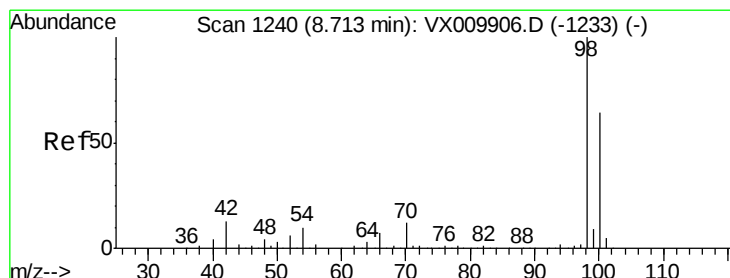
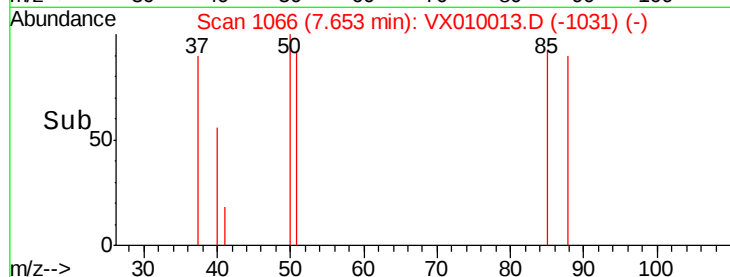
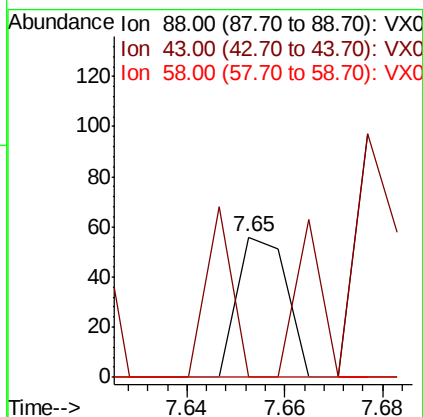
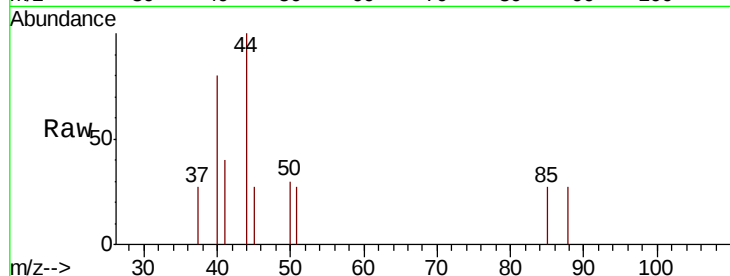
Tot Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 64.1 30.2 45.4#

58 0.0 64.0 96.0#



#50

Toluene-d8

Concen: 49.933 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010013.D

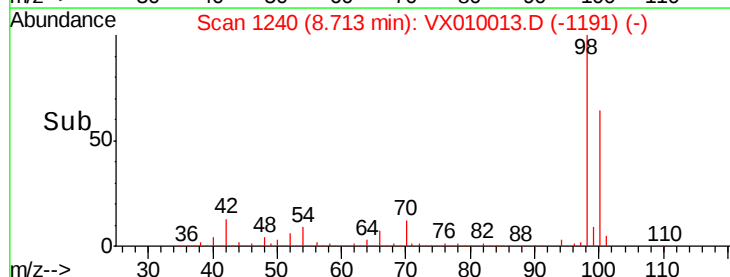
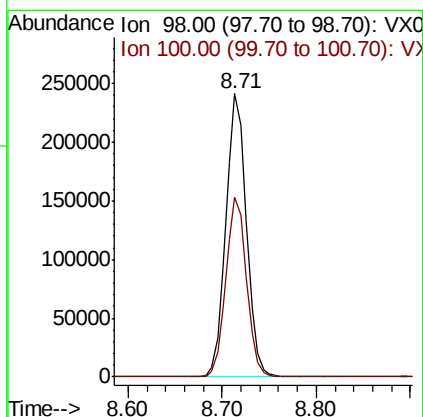
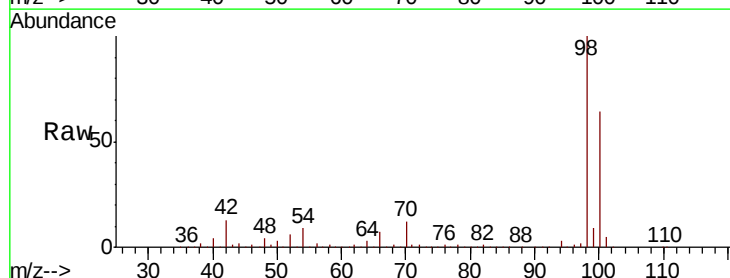
Acq: 01 Jun 2019 03:18

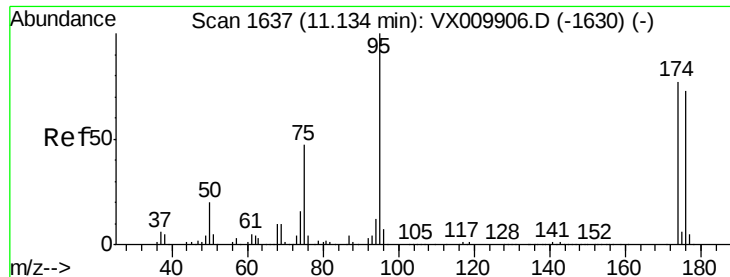
Tgt Ion: 98 Resp: 365420

Ion Ratio Lower Upper

98 100

100 63.7 51.5 77.3





#62

4-Bromofluorobenzene

Concen: 46.986 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

MSVOA_X

ClientSampleId :

LF012MW007-190528

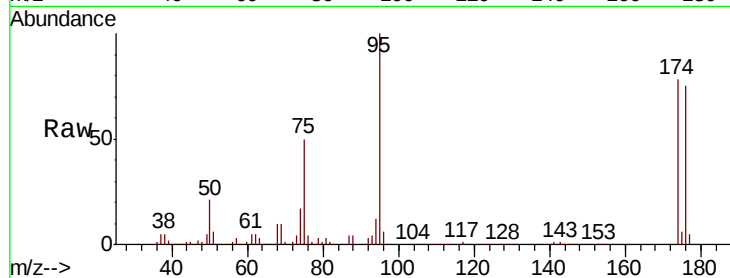
Tot Ion: 95 Resp: 123504

Ion Ratio Lower Upper

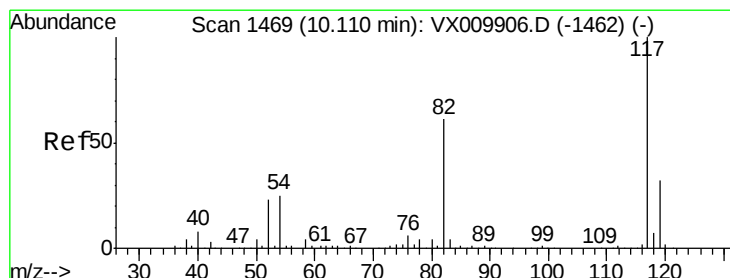
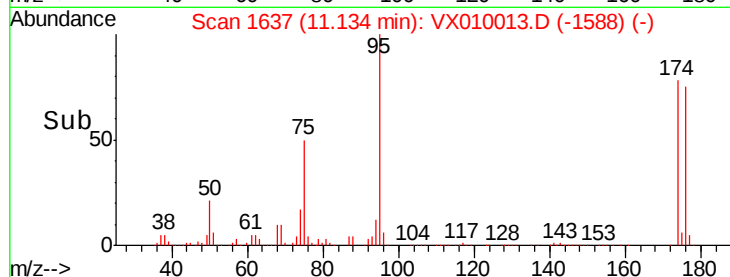
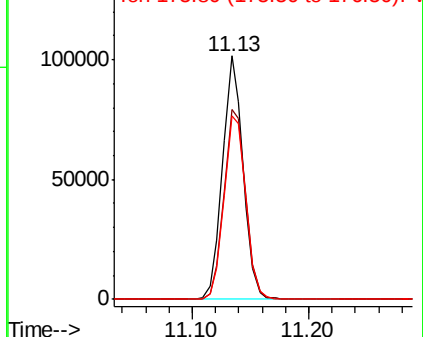
95 100

174 82.5 0.0 160.4

176 80.3 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: VX010013.D

Acq: 01 Jun 2019 03:18

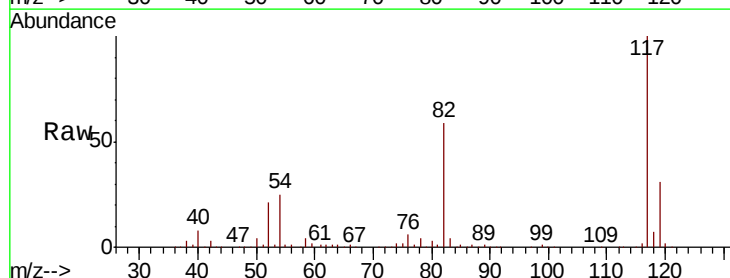
Tgt Ion: 117 Resp: 260356

Ion Ratio Lower Upper

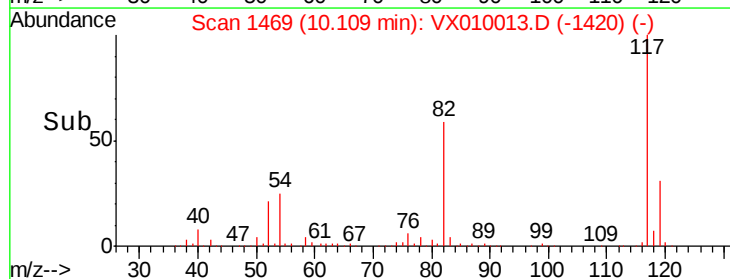
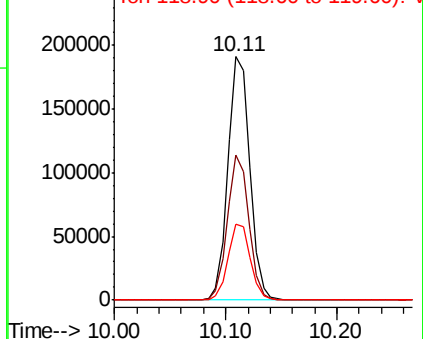
117 100

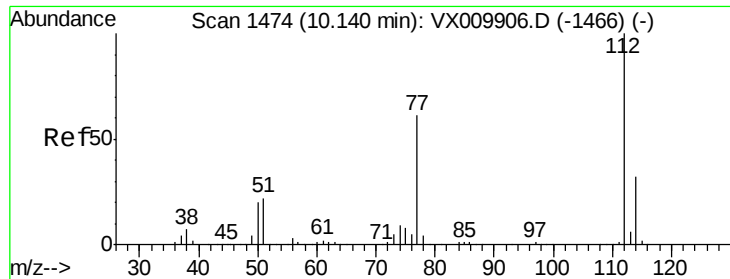
82 59.4 49.2 73.8

119 31.3 25.2 37.8



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

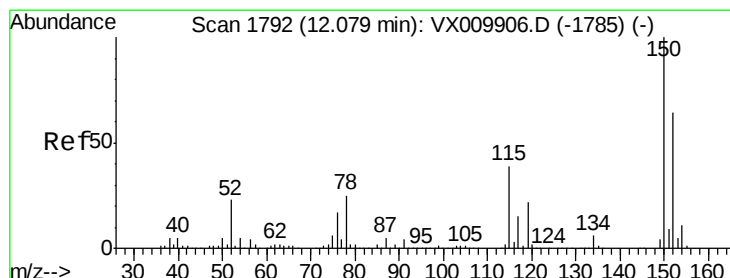
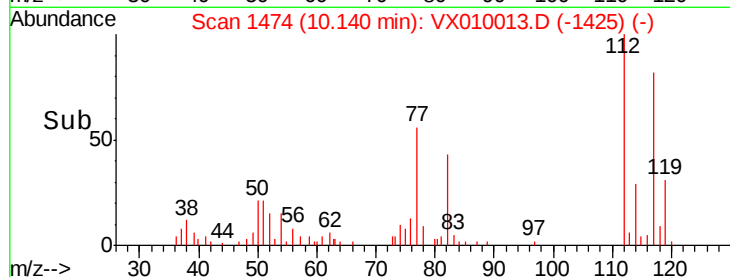
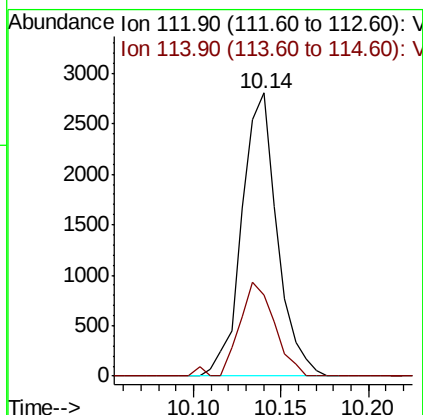
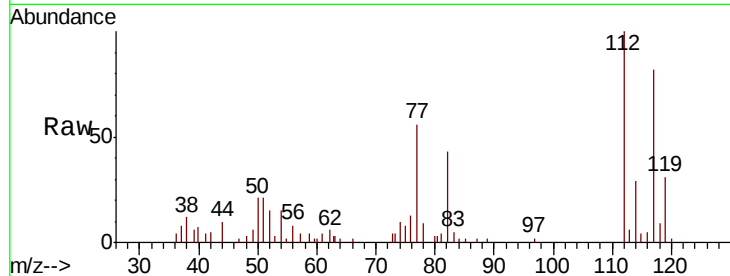




#65
Chlorobenzene
Concen: 0.724 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX010013.D
Acq: 01 Jun 2019 03:18

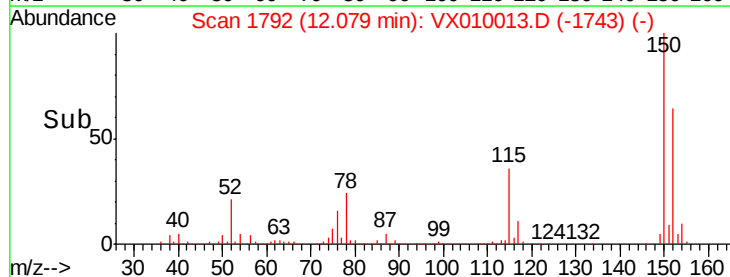
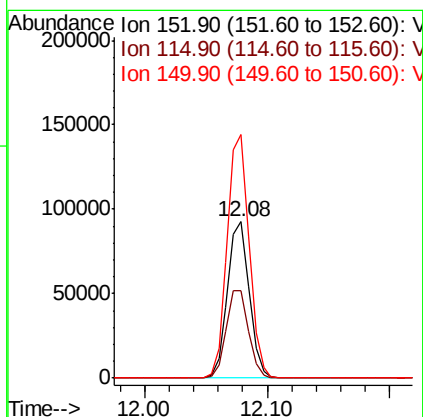
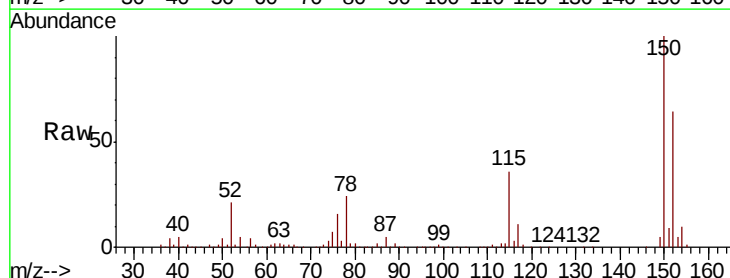
Instrument :
MSVOA_X
ClientSampleId :
LF012MW007-190528

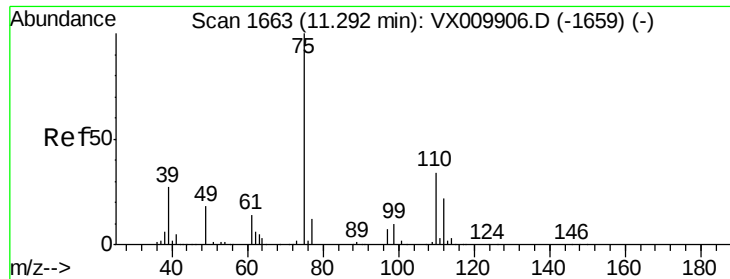
Tot Ion:112 Resp: 3947
Ion Ratio Lower Upper
112 100
114 28.7 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010013.D
Acq: 01 Jun 2019 03:18

Tgt Ion:152 Resp: 113579
Ion Ratio Lower Upper
152 100
115 58.1 41.4 124.2
150 157.2 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 23.249 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

Instrument :

MSVOA_X

ClientSampleId :

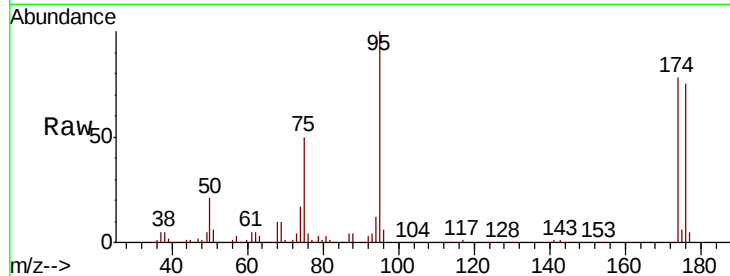
LF012MW007-190528

Tot Ion: 75 Resp: 63144

Ion Ratio Lower Upper

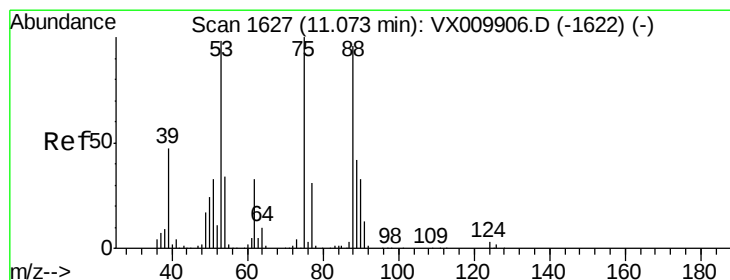
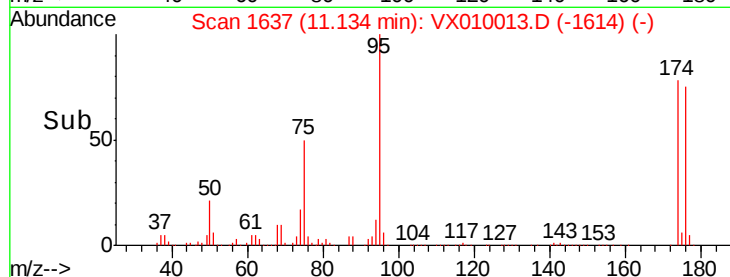
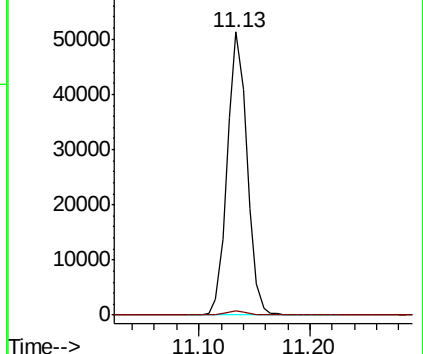
75 100

77 1.5 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: 57.521 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010013.D

Acq: 01 Jun 2019 03:18

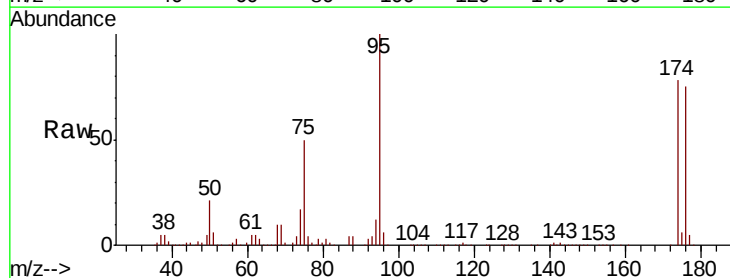
Tgt Ion: 75 Resp: 63144

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

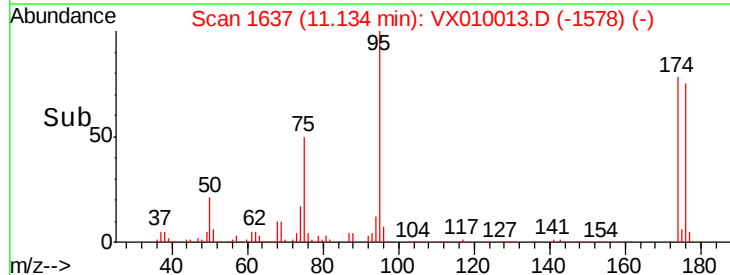
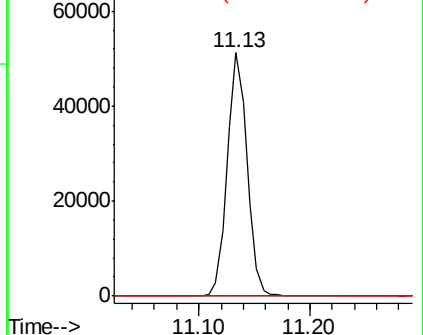
89 0.0 34.2 51.4#

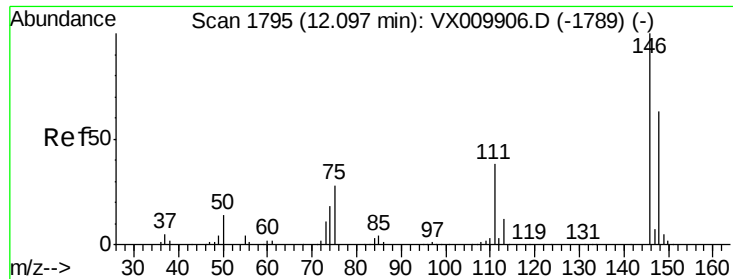


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

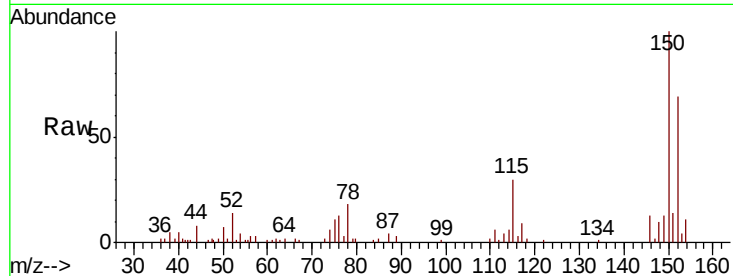




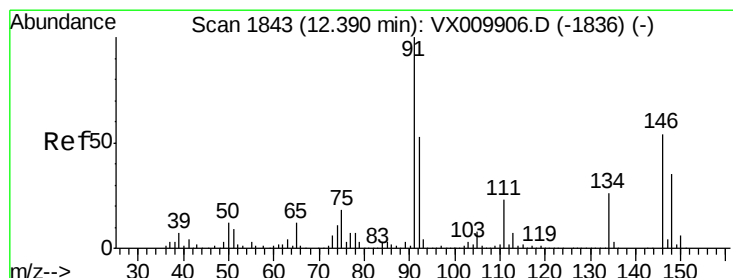
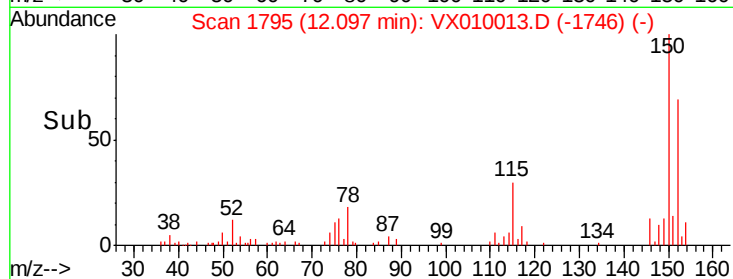
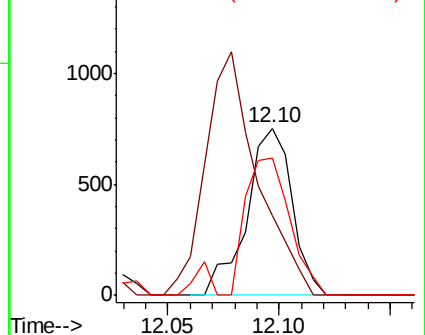
#88
 1,4-Dichlorobenzene
 Concen: 0.276 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX010013.D
 Acq: 01 Jun 2019 03:18

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW007-190528

Tot Ion:146 Resp: 1070
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 59.9#
 148 80.9 32.3 96.9

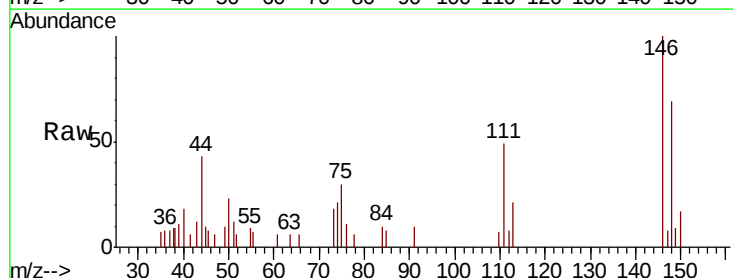


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#91
 1,2-Dichlorobenzene
 Concen: 0.301 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX010013.D
 Acq: 01 Jun 2019 03:18

Tgt Ion:146 Resp: 1130
 Ion Ratio Lower Upper
 146 100
 111 43.7 21.1 63.1
 148 63.5 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

