

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052419\
 Data File : VX009897.D
 Acq On : 24 May 2019 19:18
 Operator : JC/SP
 Sample : K3038-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW028-190522

Quant Time: May 25 00:16:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	170657	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	274942	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109236	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	118449	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
35) Dibromofluoromethane	5.50	113	85722	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	8.71	98	348812	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
62) 4-Bromofluorobenzene	11.13	95	118325	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	

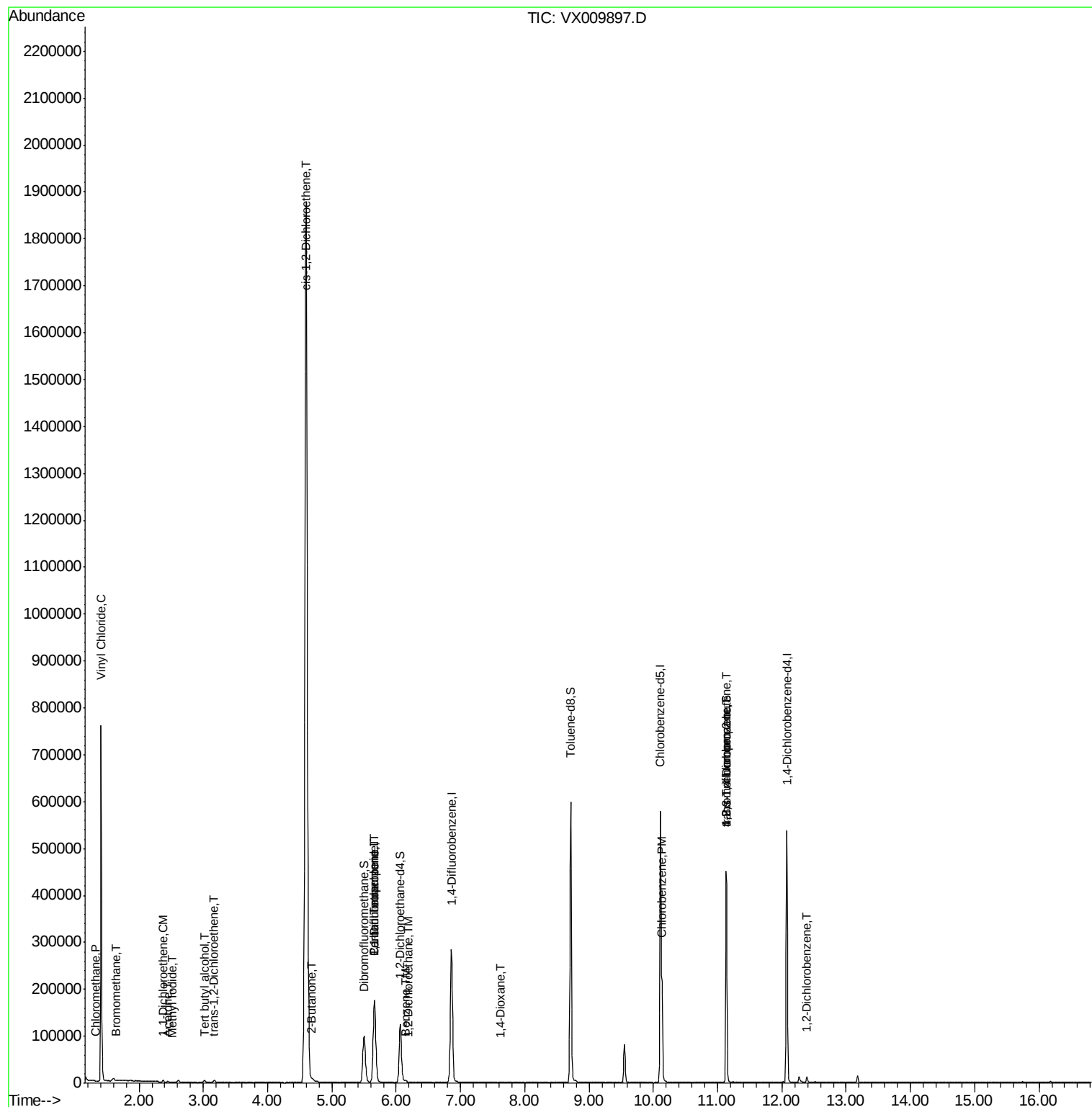
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	574	0.267	ug/l #	70
4) Vinyl Chloride	1.41	62	519850	248.299	ug/l	98
5) Bromomethane	1.64	94	313	0.249	ug/l #	56
10) Methyl Iodide	2.52	142	48	4.617	ug/l #	42
11) Tert butyl alcohol	3.01	59	2824	5.237	ug/l #	82
12) 1,1-Dichloroethene	2.38	96	1501	0.937	ug/l	82
16) Acetone	2.45	43	1877	1.500	ug/l	91
21) trans-1,2-Dichloroethene	3.17	96	1716	0.988	ug/l	87
25) 2-Butanone	4.69	43	604	0.311	ug/l #	45
27) cis-1,2-Dichloroethene	4.60	96	1135942	548.026	ug/l	91
28) Bromochloromethane	5.02	49	68	Below Cal	#	20
36) 1,1-Dichloropropene	5.66	75	13749	5.381	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16254	7.002	ug/l #	17
40) Benzene	6.15	78	3452	0.437	ug/l	95
42) 1,2-Dichloroethane	6.19	62	722	0.255	ug/l	93
49) 1,4-Dioxane	7.61	88	21	0.367	ug/l #	48
65) Chlorobenzene	10.14	112	77217	15.709	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	61883	24.422	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61883	62.488	ug/l #	11
91) 1,2-Dichlorobenzene	12.39	146	3428	0.958	ug/l	98

(#) = 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: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

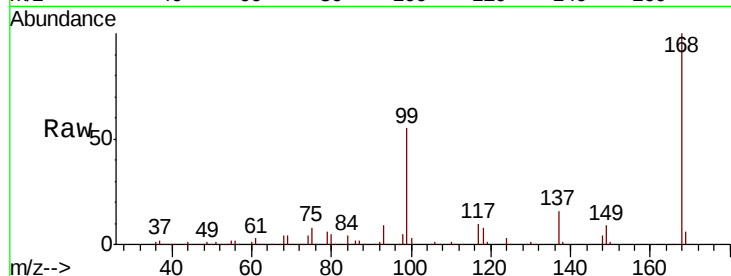
LF012MW028-190522

Tot Ion:168 Resp: 170657

Ion Ratio Lower Upper

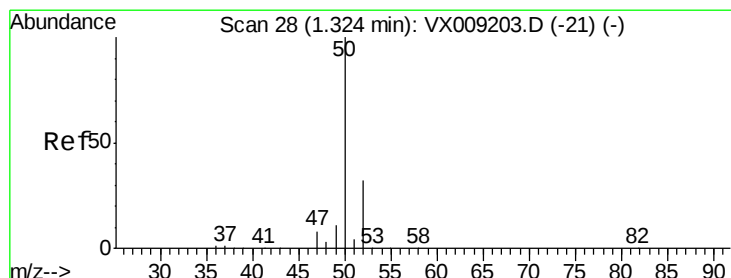
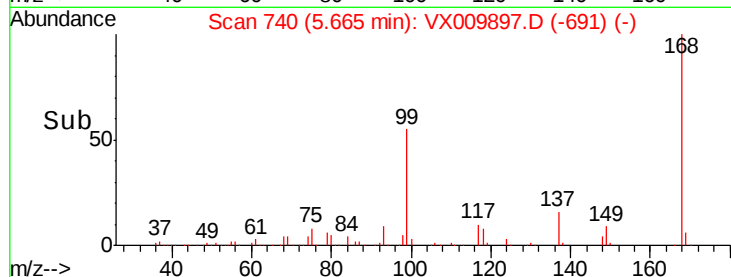
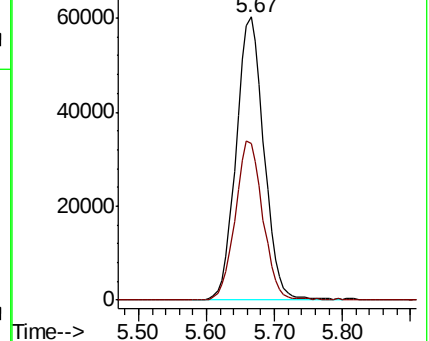
168 100

99 55.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.267 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009897.D

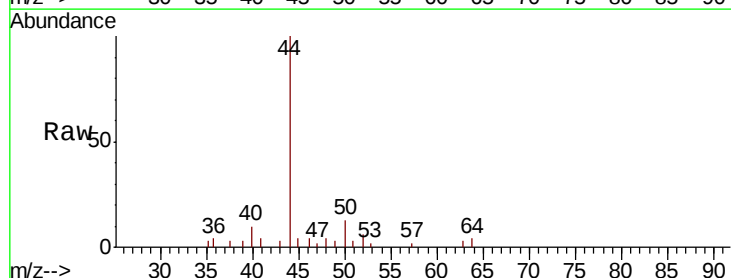
Acq: 24 May 2019 19:18

Tgt Ion: 50 Resp: 574

Ion Ratio Lower Upper

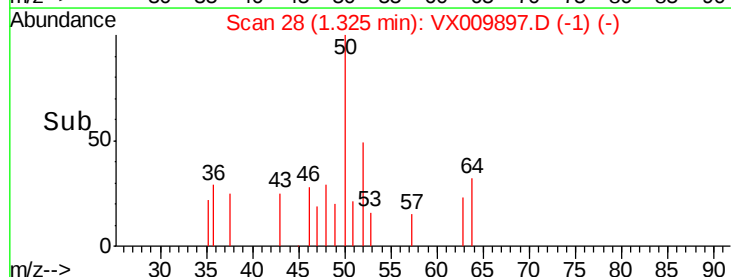
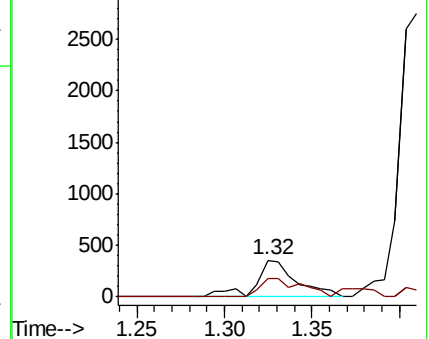
50 100

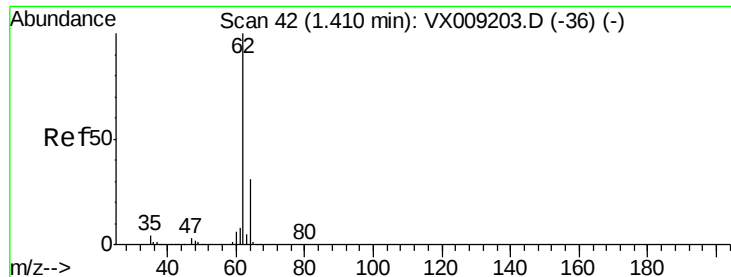
52 49.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 248.299 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

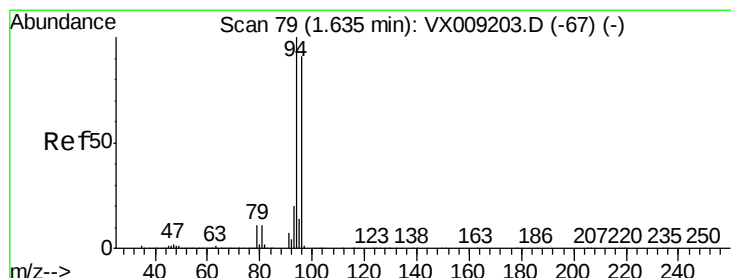
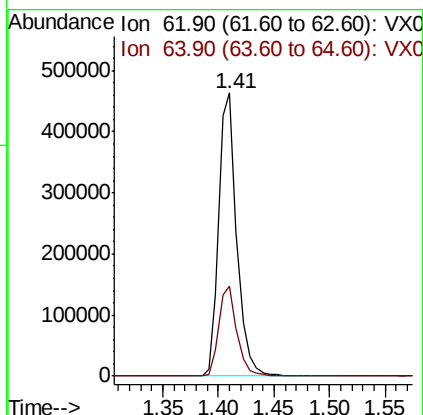
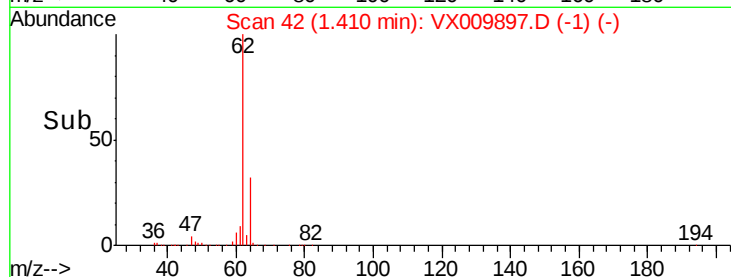
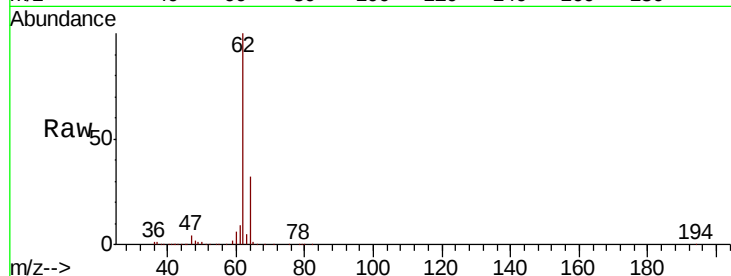
LF012MW028-190522

Tot Ion: 62 Resp: 519850

Ion Ratio Lower Upper

62 100

64 32.0 24.6 36.8



#5

Bromomethane

Concen: 0.249 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009897.D

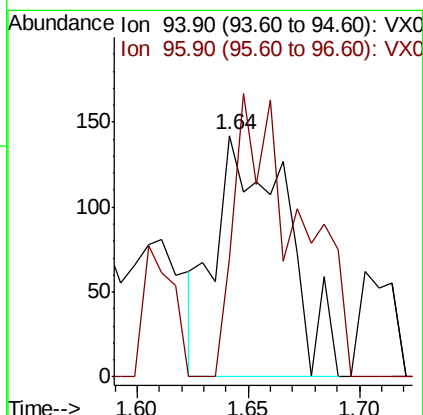
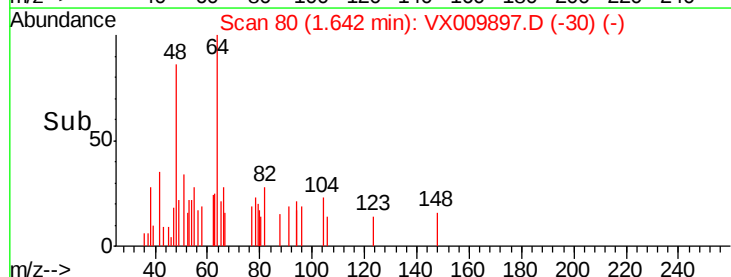
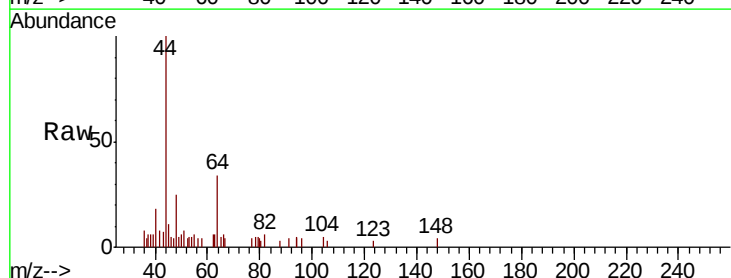
Acq: 24 May 2019 19:18

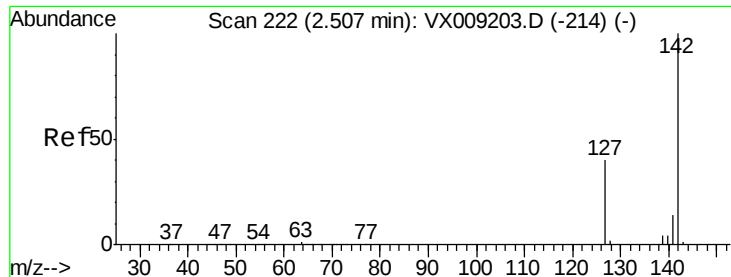
Tgt Ion: 94 Resp: 313

Ion Ratio Lower Upper

94 100

96 49.3 73.0 109.6#

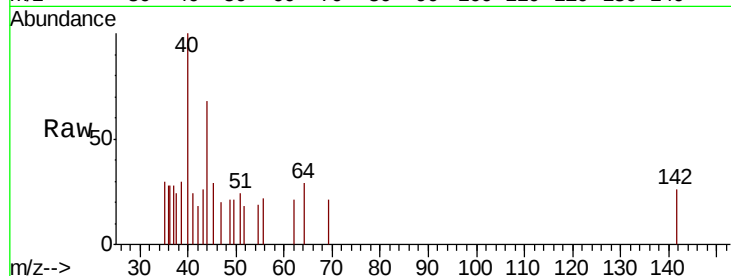




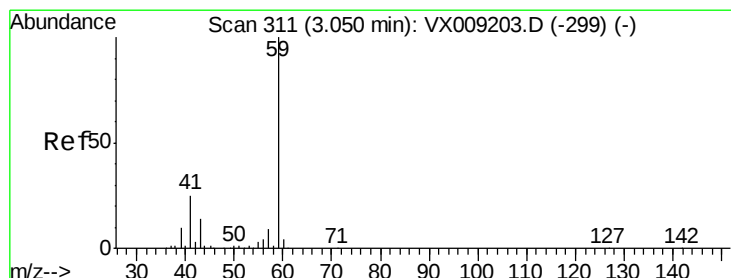
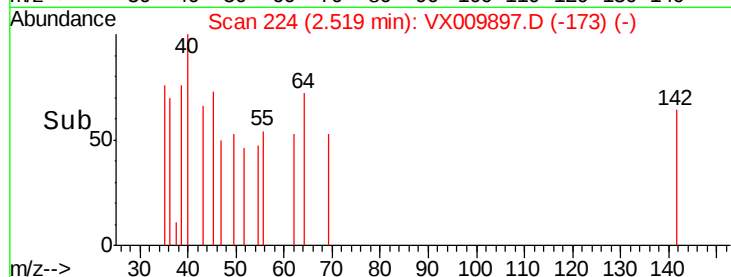
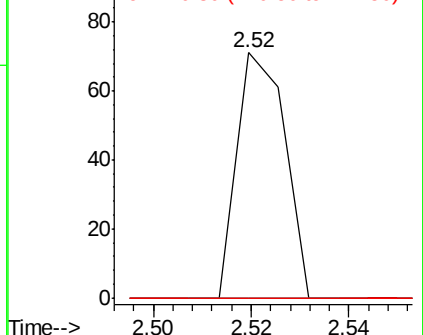
#10
Methyl Iodide
Concen: 4.617 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009897.D
Acq: 24 May 2019 19:18

Instrument :
MSVOA_X
ClientSampleId :
LF012MW028-190522

Tot Ion:142 Resp: 48
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

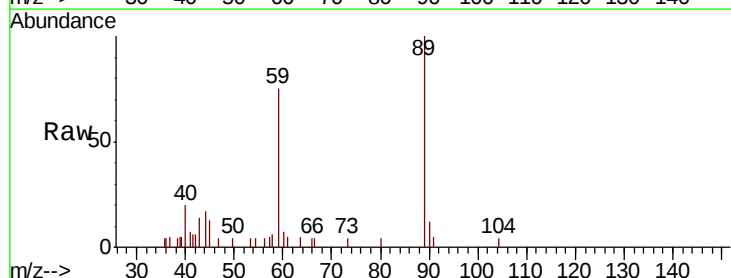


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

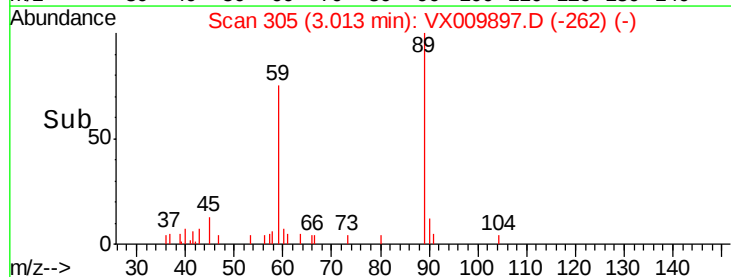
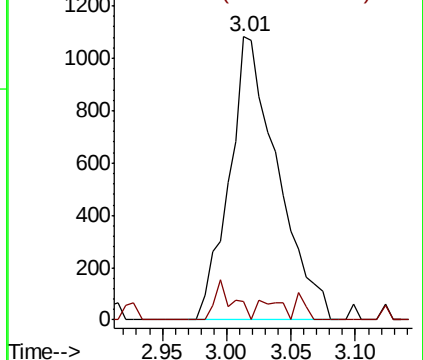


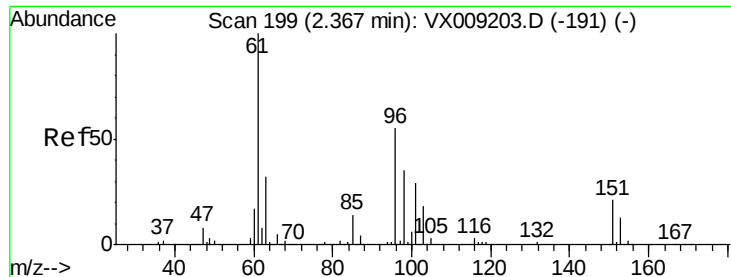
#11
Tert butyl alcohol
Concen: 5.237 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009897.D
Acq: 24 May 2019 19:18

Tgt Ion: 59 Resp: 2824
Ion Ratio Lower Upper
59 100
57 3.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.937 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

LF012MW028-190522

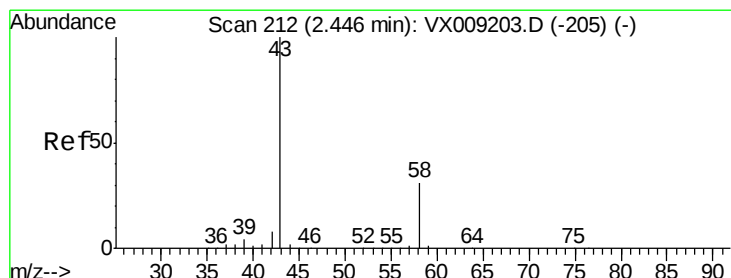
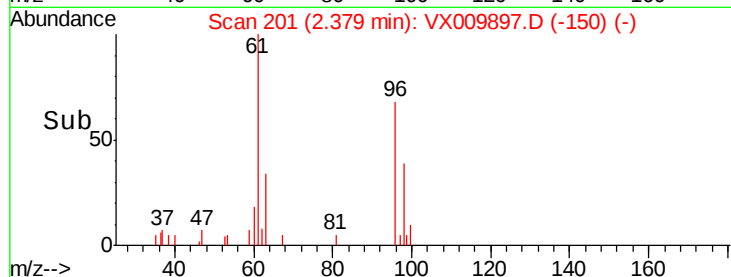
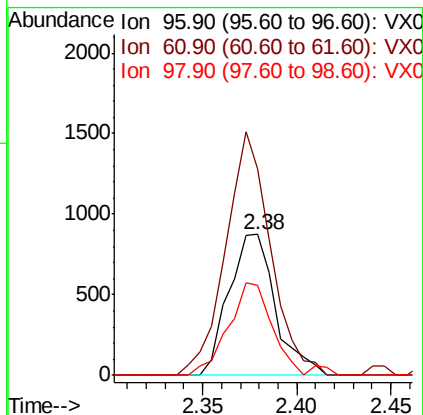
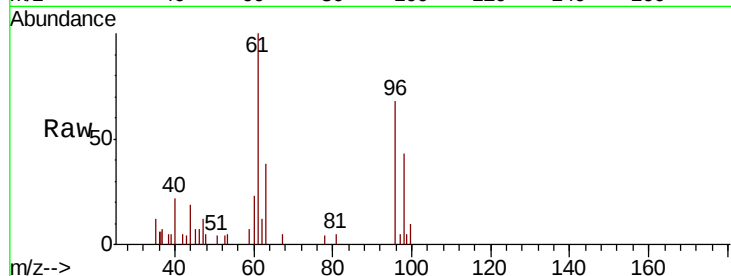
Tot Ion: 96 Resp: 1501

Ion Ratio Lower Upper

96 100

61 147.2 144.3 216.5

98 63.6 50.3 75.5



#16

Acetone

Concen: 1.500 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009897.D

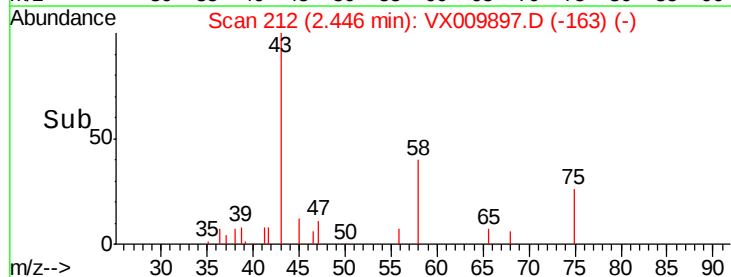
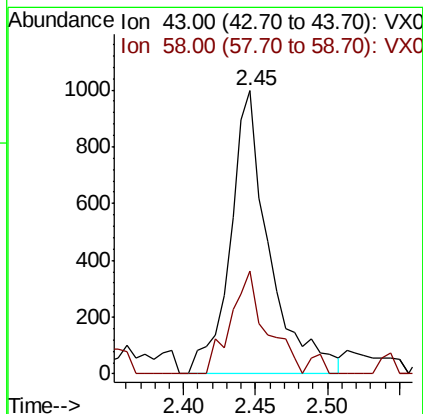
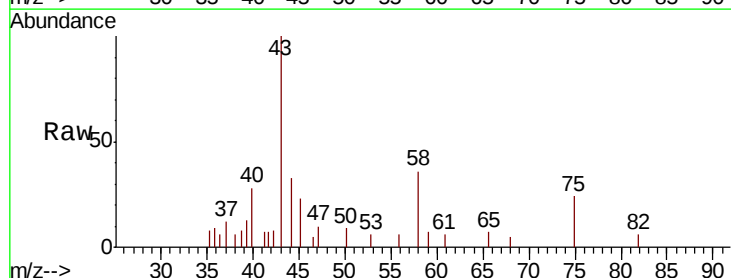
Acq: 24 May 2019 19:18

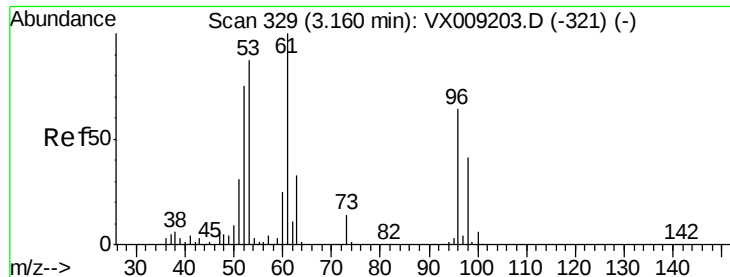
Tgt Ion: 43 Resp: 1877

Ion Ratio Lower Upper

43 100

58 36.3 24.9 37.3





#21

trans-1,2-Dichloroethene

Concen: 0.988 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

LF012MW028-190522

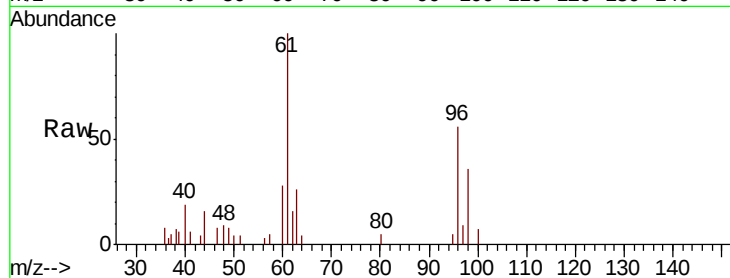
Tot Ion: 96 Resp: 1716

Ion Ratio Lower Upper

96 100

61 178.5 124.5 186.7

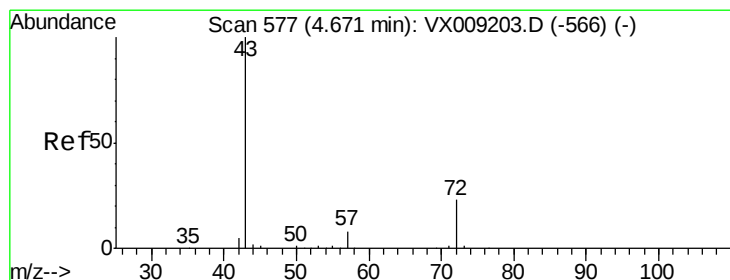
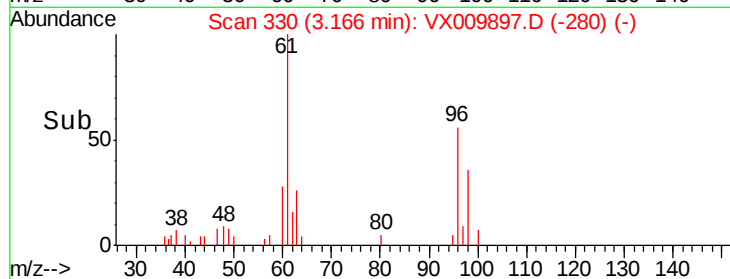
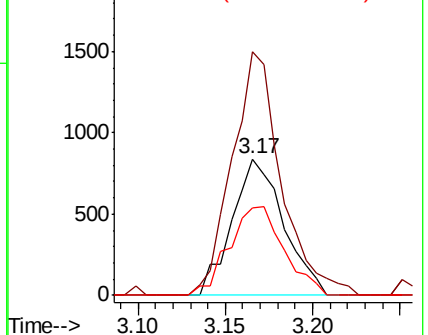
98 64.0 50.4 75.6



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



#25

2-Butanone

Concen: 0.311 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009897.D

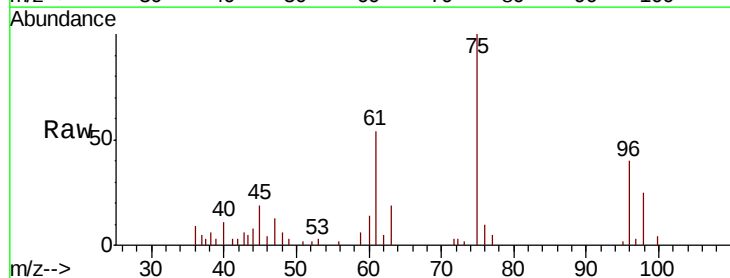
Acq: 24 May 2019 19:18

Tgt Ion: 43 Resp: 604

Ion Ratio Lower Upper

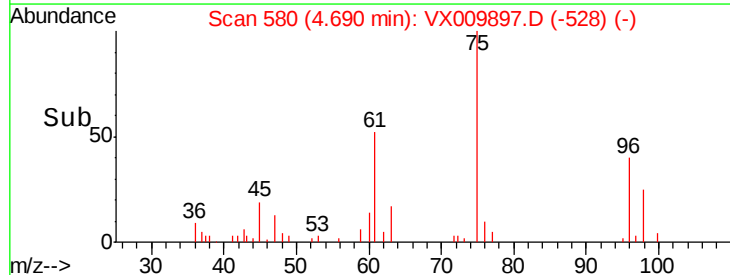
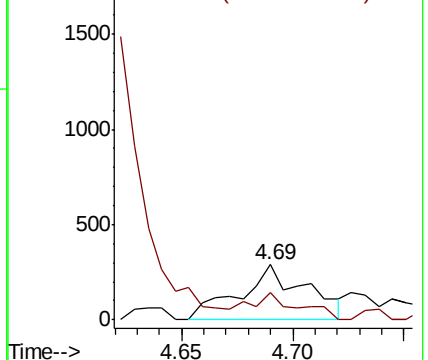
43 100

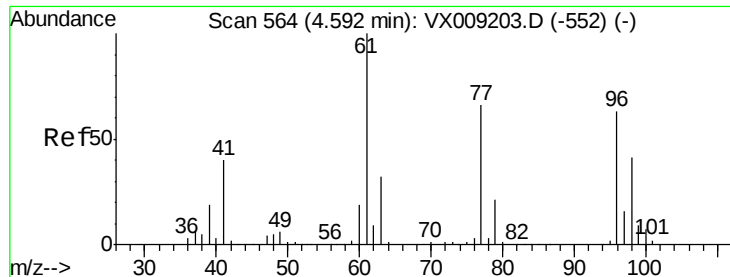
72 49.1 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



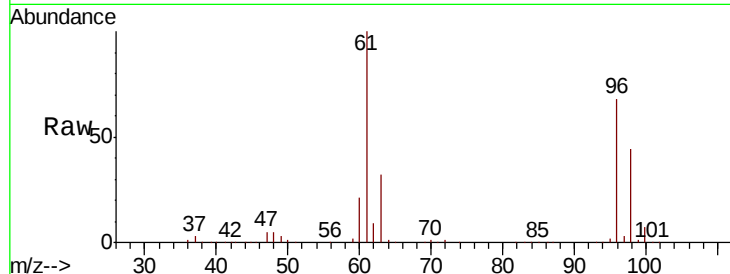


#27

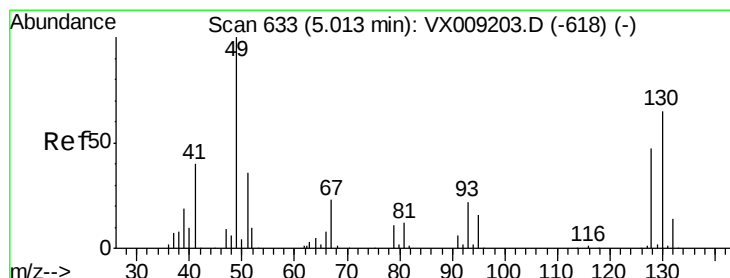
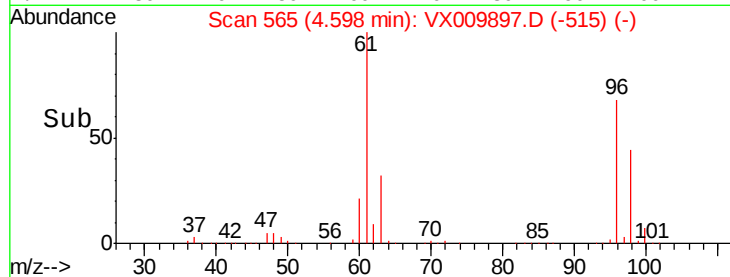
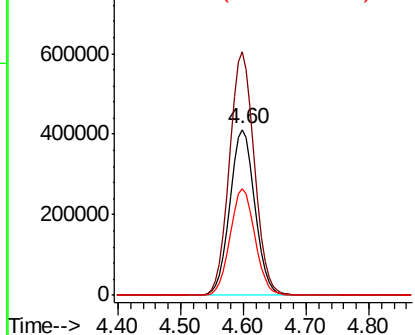
cis-1,2-Dichloroethene
 Concen: 548.026 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX009897.D
 Acq: 24 May 2019 19:18

Instrument :
 MSVOA_X
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 LF012MW028-190522

Tot Ion: 96 Resp: 1135942
 Ion Ratio Lower Upper
 96 100
 61 146.3 0.0 324.0
 98 64.1 0.0 130.4



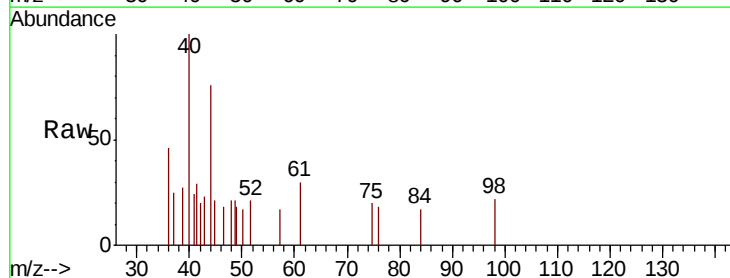
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



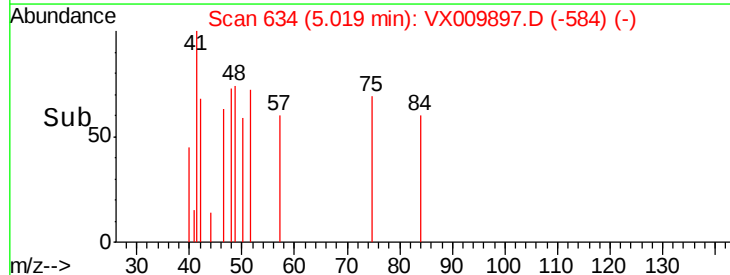
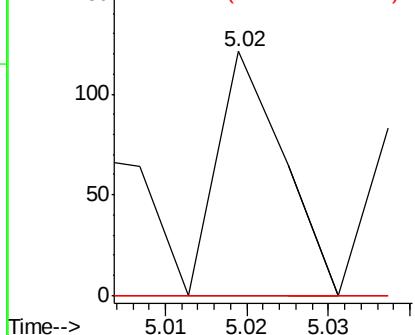
#28

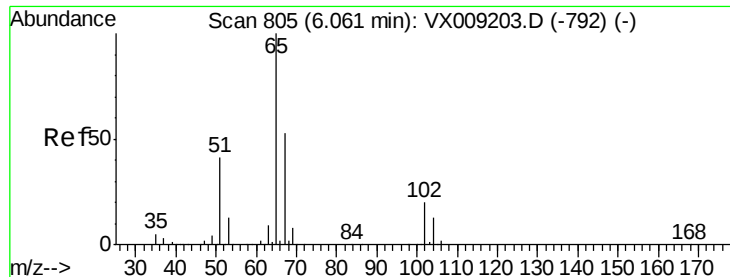
Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VX009897.D
 Acq: 24 May 2019 19:18

Tgt Ion: 49 Resp: 68
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 51.2 76.8#



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: 50.844 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

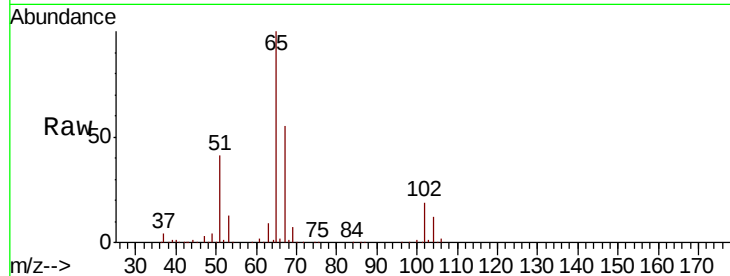
LF012MW028-190522

Tot Ion: 65 Resp: 118449

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

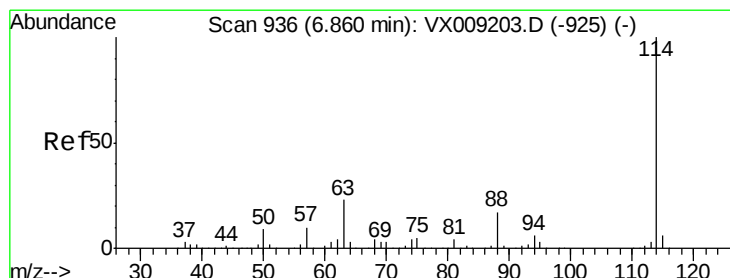
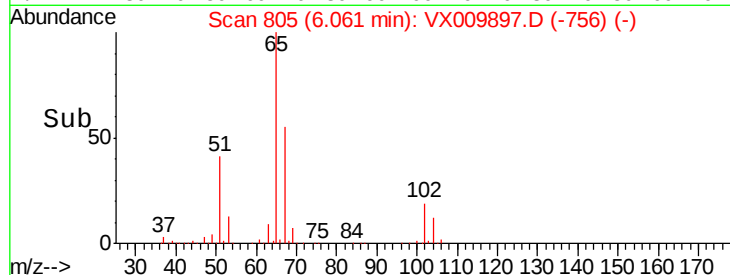
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

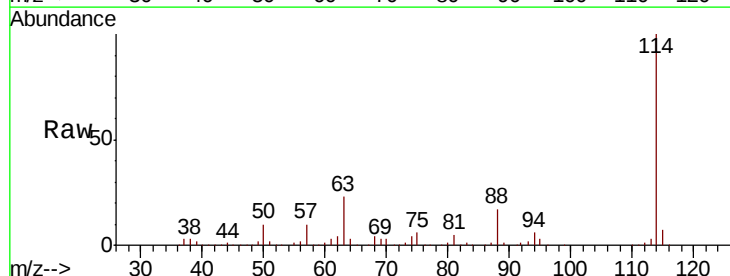
Tgt Ion: 114 Resp: 274942

Ion Ratio Lower Upper

114 100

63 23.4 0.0 45.6

88 17.1 0.0 33.2



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

150000

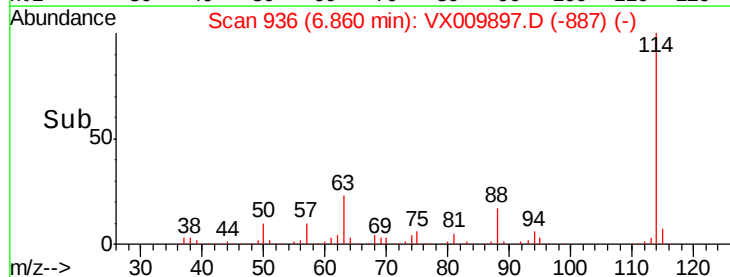
100000

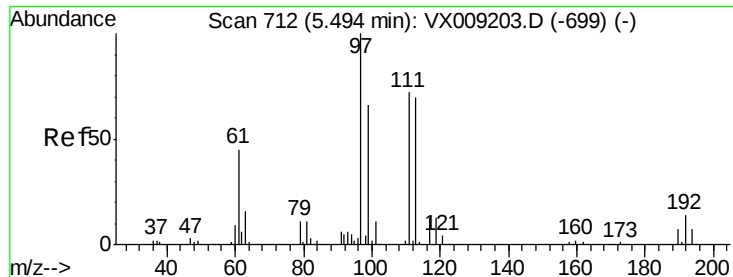
50000

0

Time-->

6.80 6.90 7.00

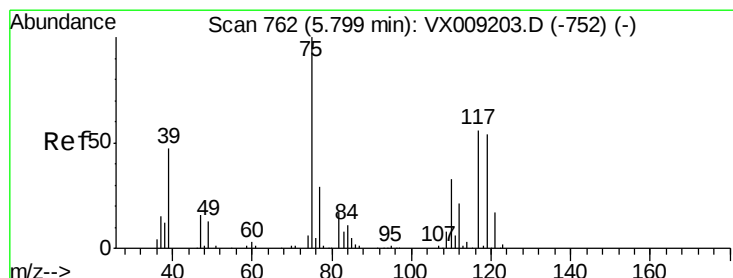
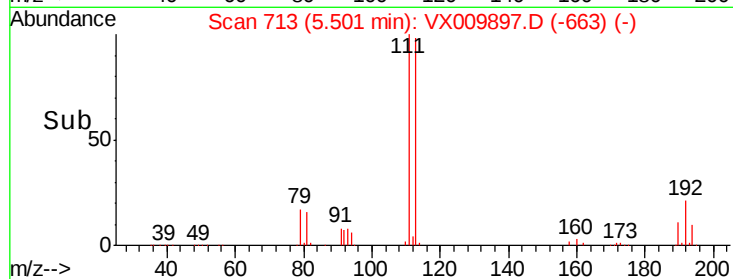
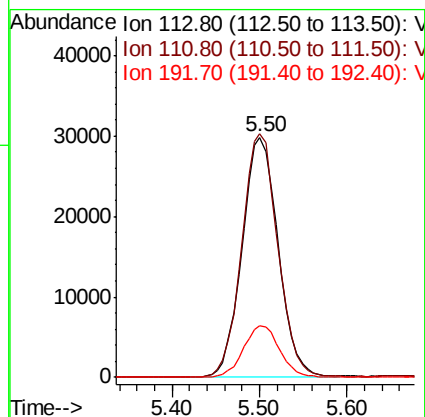
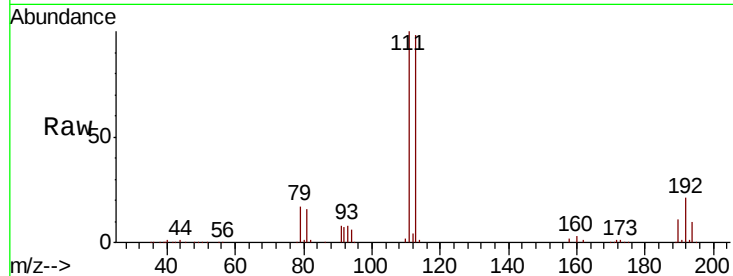




#35
 Dibromofluoromethane
 Concen: 49.596 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009897.D
 Acq: 24 May 2019 19:18

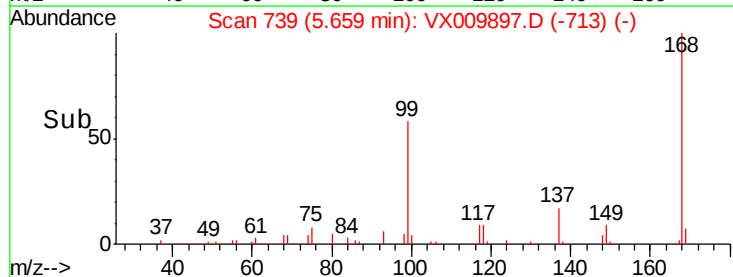
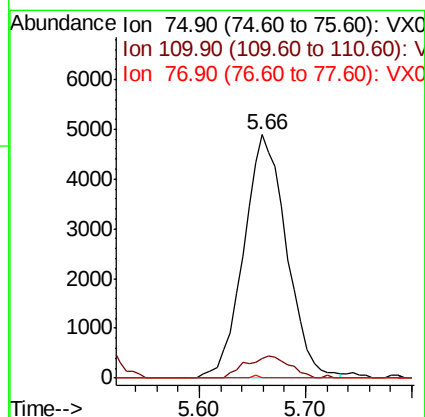
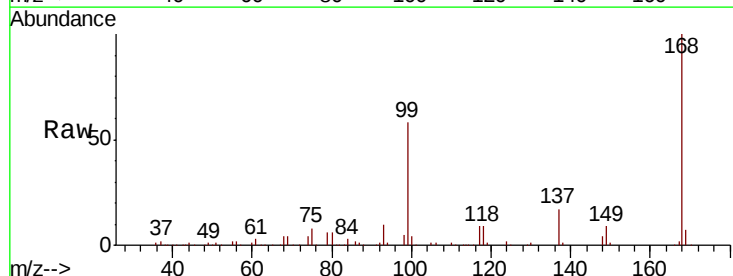
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW028-190522

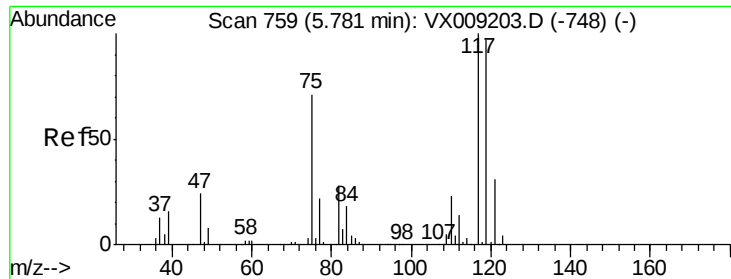
Tot Ion:113 Resp: 85722
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.8 124.2
 192 21.5 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.381 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009897.D
 Acq: 24 May 2019 19:18

Tgt Ion: 75 Resp: 13749
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.9 50.6#
 77 0.2 24.8 37.2#

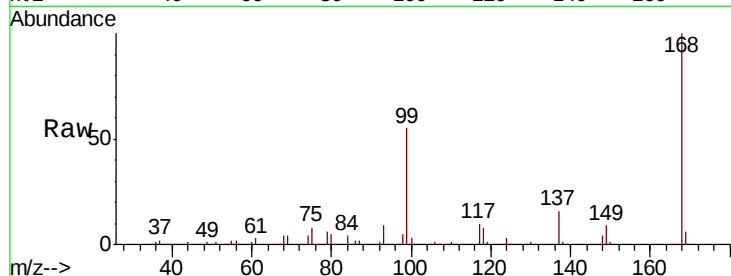




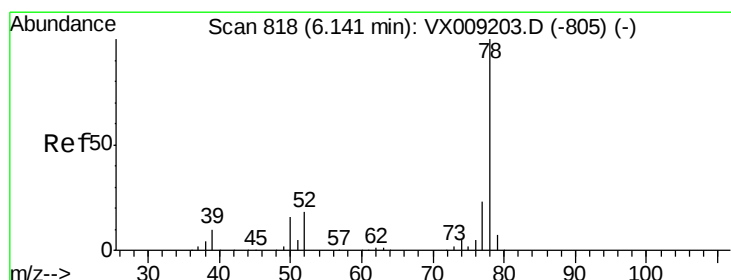
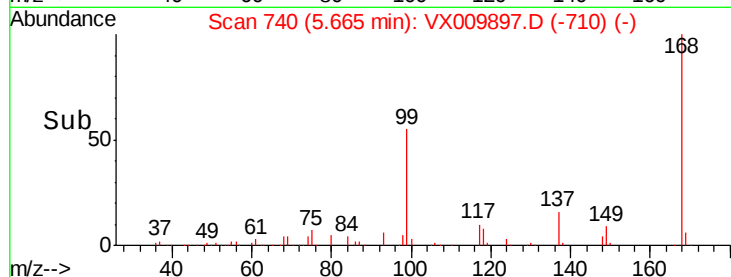
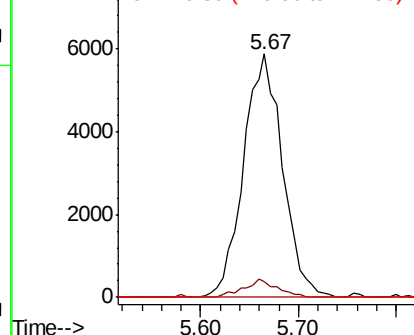
#38
Carbon Tetrachloride
Concen: 7.002 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009897.D
Acq: 24 May 2019 19:18

Instrument :
MSVOA_X
ClientSampleId :
LF012MW028-190522

Tot Ion:117 Resp: 16254
Ion Ratio Lower Upper
117 100
119 6.5 77.5 116.3#
121 0.0 24.7 37.1#

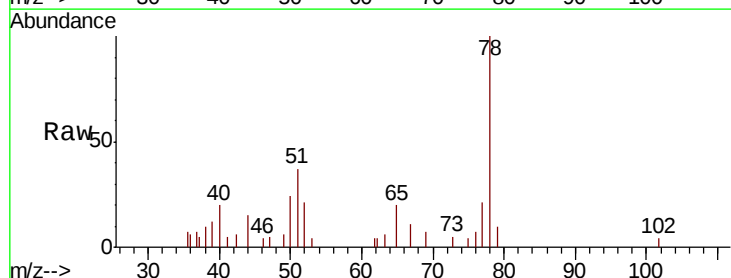


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

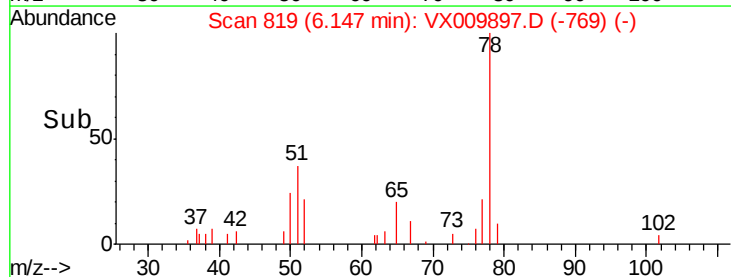
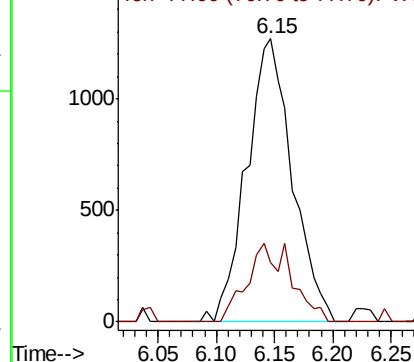


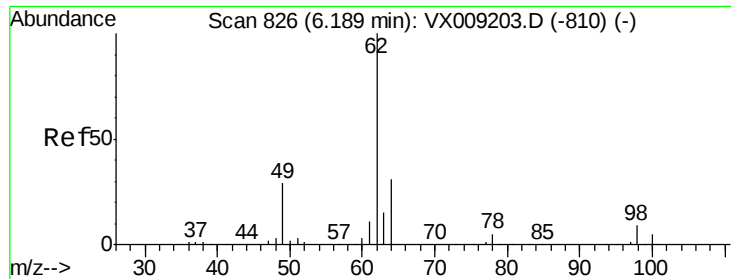
#40
Benzene
Concen: 0.437 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX009897.D
Acq: 24 May 2019 19:18

Tgt Ion: 78 Resp: 3452
Ion Ratio Lower Upper
78 100
77 21.0 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.255 ug/l

RT: 6.19 min Scan# 826

Delta R.T. 0.00 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

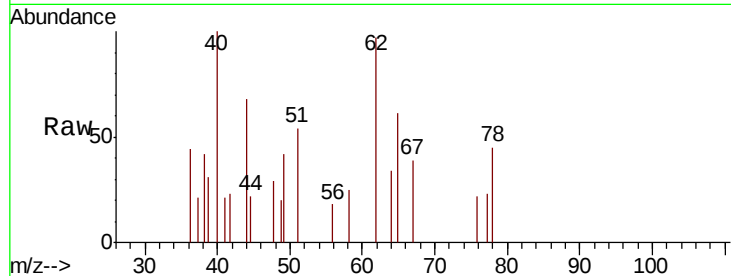
LF012MW028-190522

Tot Ion: 62 Resp: 722

Ion Ratio Lower Upper

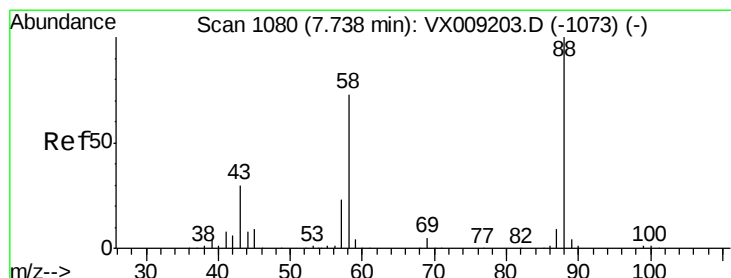
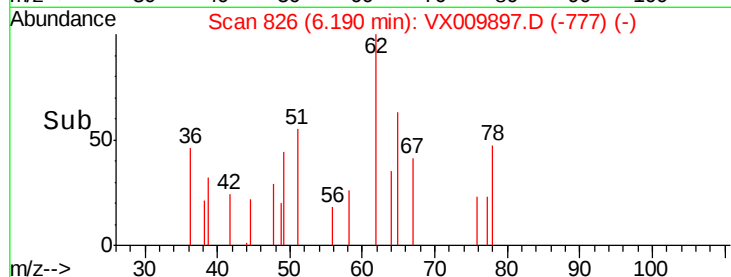
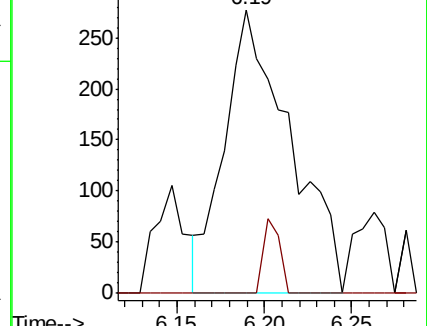
62 100

98 6.5 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#49

1,4-Dioxane

Concen: 0.367 ug/l

RT: 7.61 min Scan# 1059

Delta R.T. -0.13 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

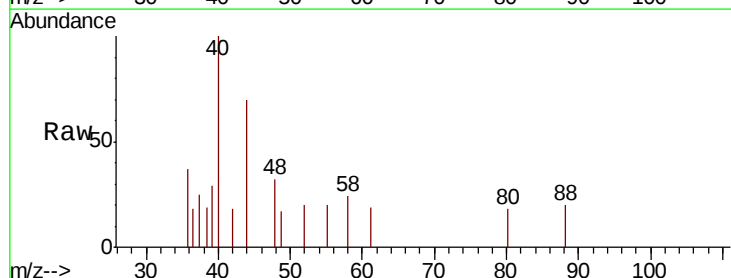
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

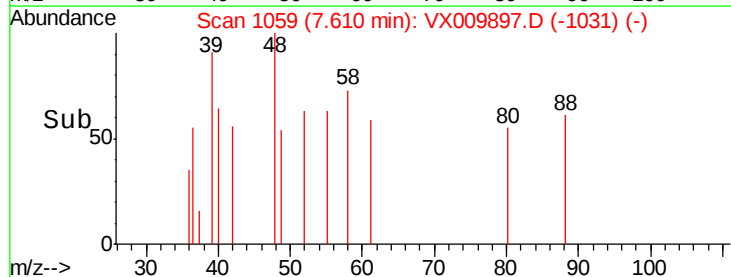
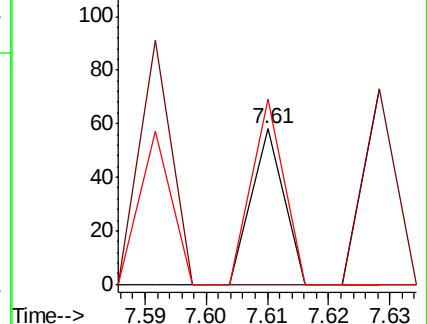
58 119.0 61.7 92.5#

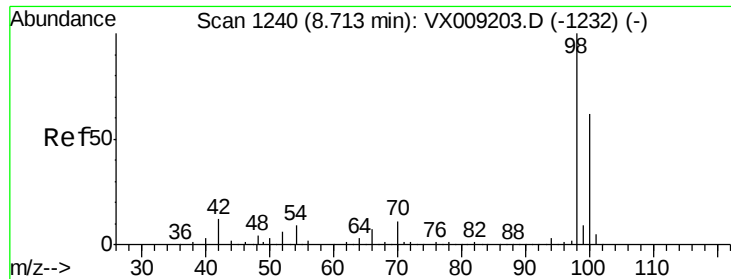


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.988 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

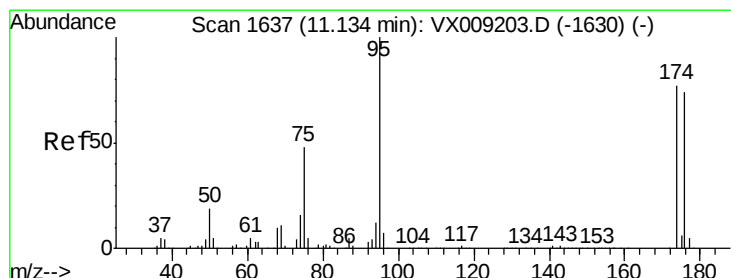
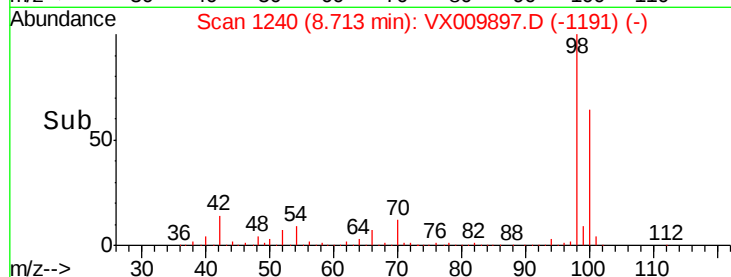
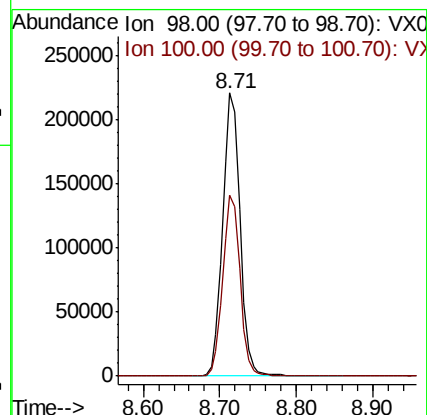
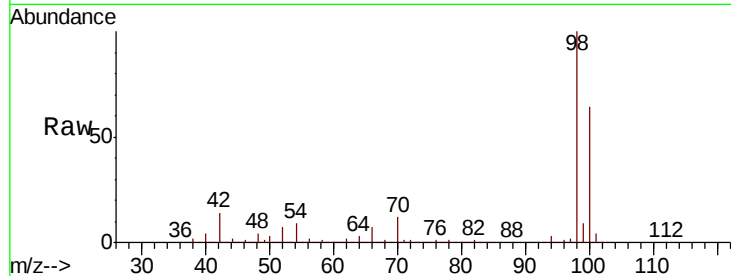
LF012MW028-190522

Tot Ion: 98 Resp: 348812

Ion Ratio Lower Upper

98 100

100 64.0 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 46.667 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

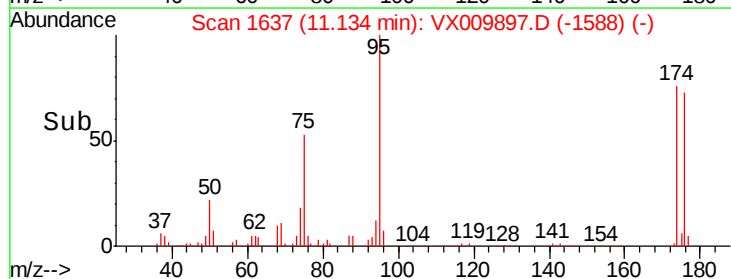
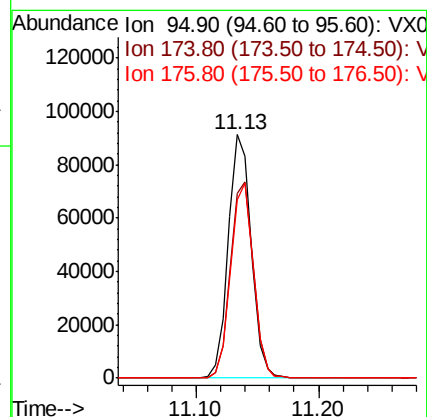
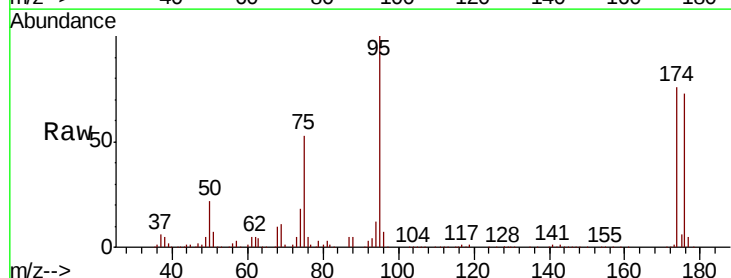
Tgt Ion: 95 Resp: 118325

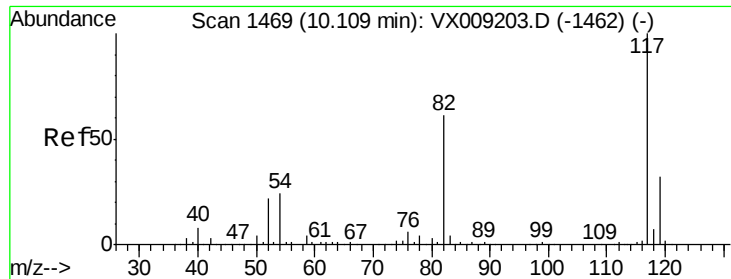
Ion Ratio Lower Upper

95 100

174 81.1 0.0 161.6

176 78.9 0.0 159.2

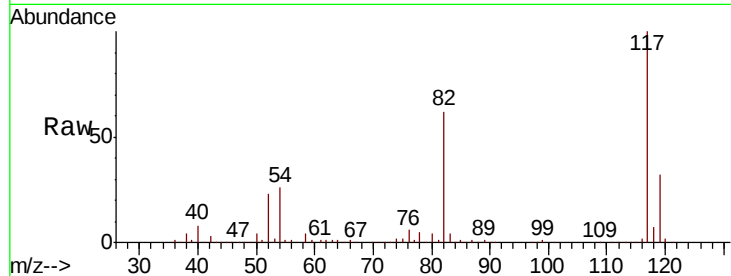




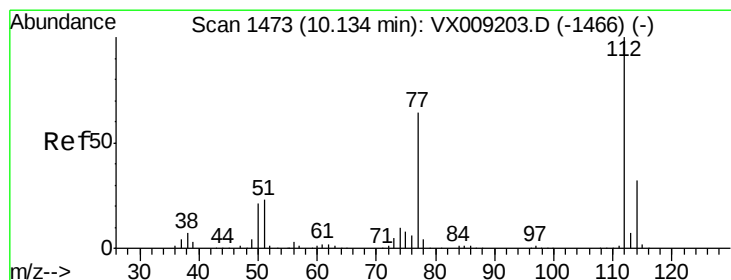
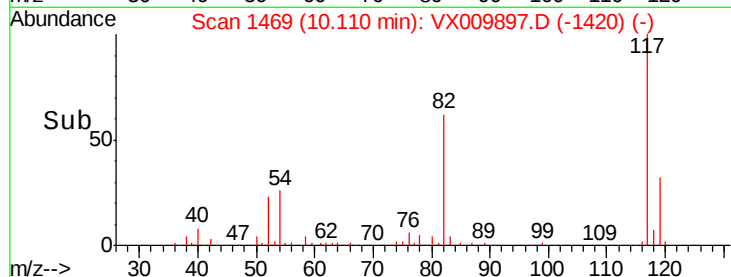
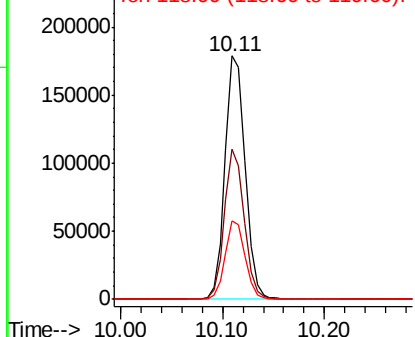
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009897.D
Acq: 24 May 2019 19:18

Instrument :
MSVOA_X
ClientSampleId :
LF012MW028-190522

Tot Ion:117 Resp: 245723
Ion Ratio Lower Upper
117 100
82 61.8 48.8 73.2
119 32.3 25.8 38.6

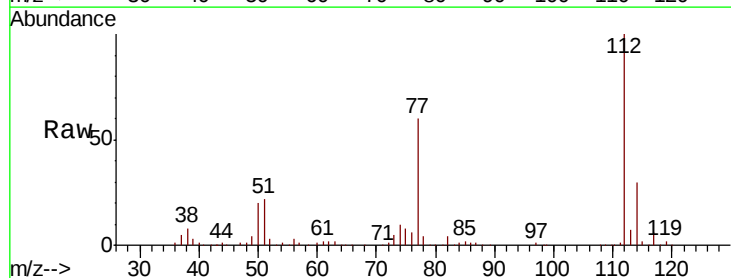


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

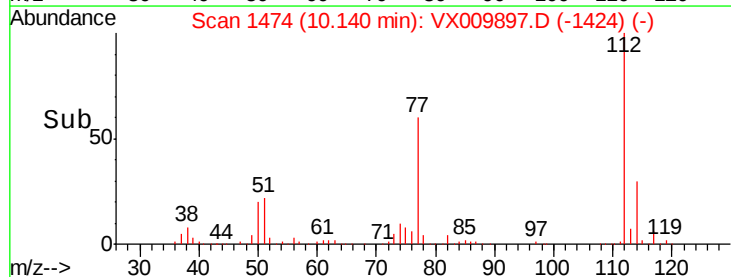
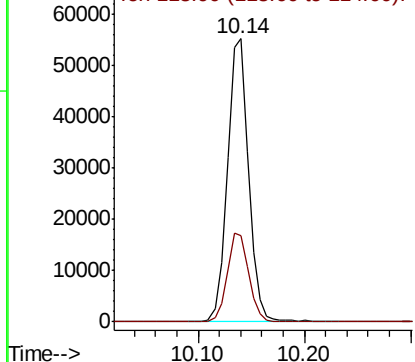


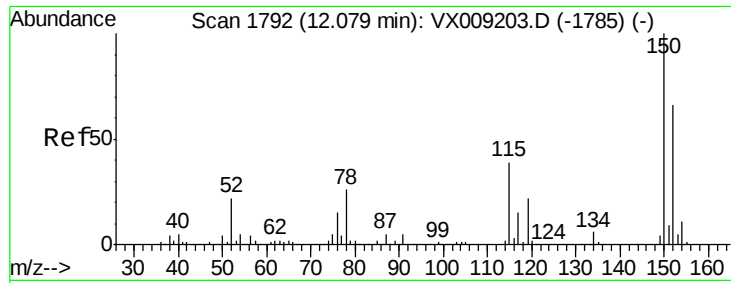
#65
Chlorobenzene
Concen: 15.709 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009897.D
Acq: 24 May 2019 19:18

Tgt Ion:112 Resp: 77217
Ion Ratio Lower Upper
112 100
114 30.3 25.5 38.3



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: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

LF012MW028-190522

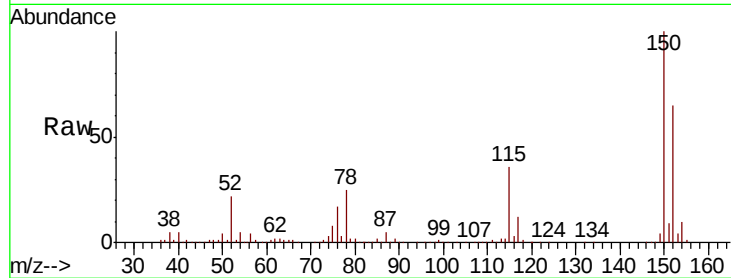
Tot Ion:152 Resp: 109236

Ion Ratio Lower Upper

152 100

115 58.1 41.2 123.6

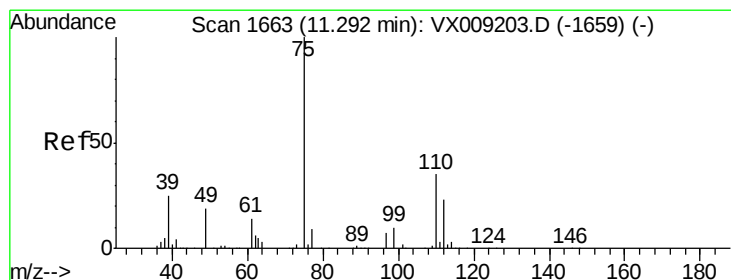
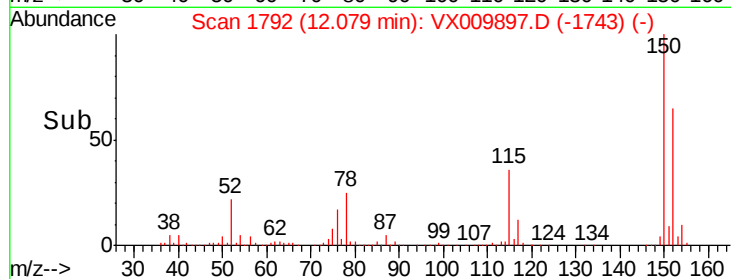
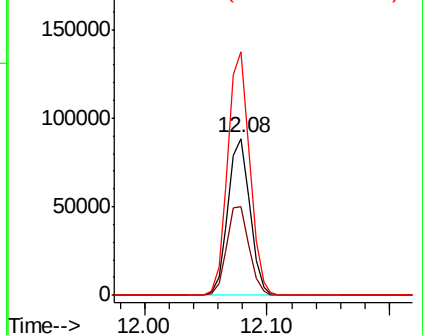
150 156.1 0.0 346.4



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: 24.422 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009897.D

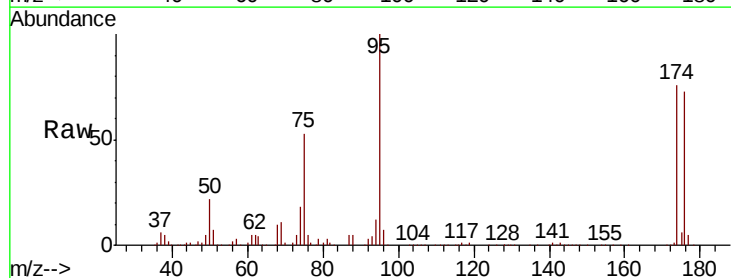
Acq: 24 May 2019 19:18

Tgt Ion: 75 Resp: 61883

Ion Ratio Lower Upper

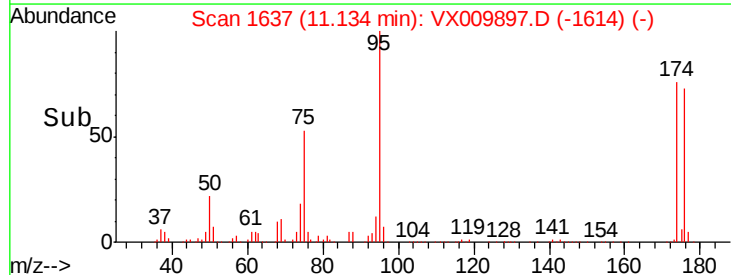
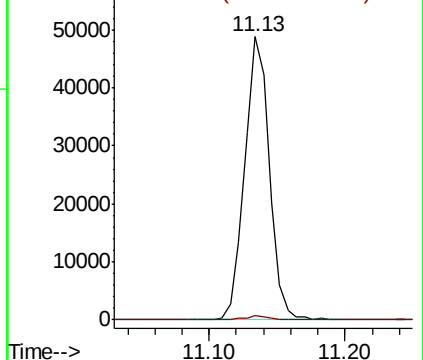
75 100

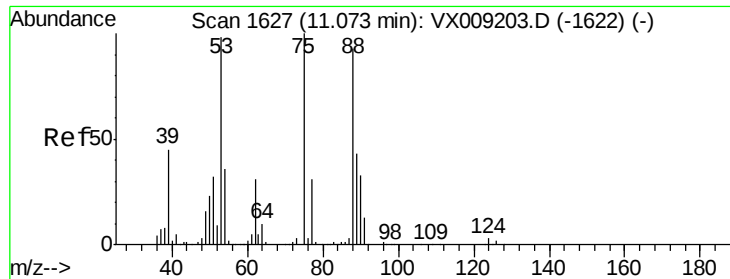
77 1.4 22.1 66.1#



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: 62.488 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

Instrument :

MSVOA_X

ClientSampleId :

LF012MW028-190522

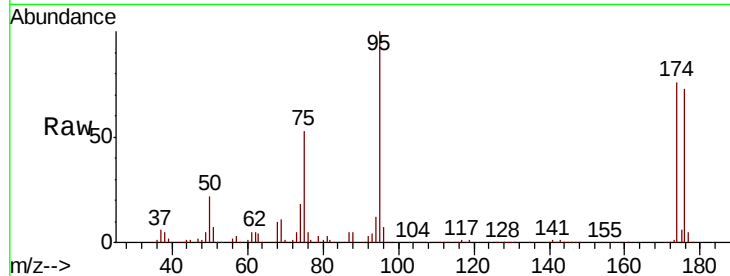
Tot Ion: 75 Resp: 61883

Ion Ratio Lower Upper

75 100

53 0.4 79.0 118.6#

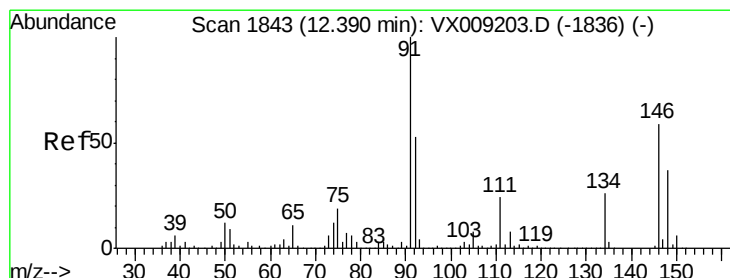
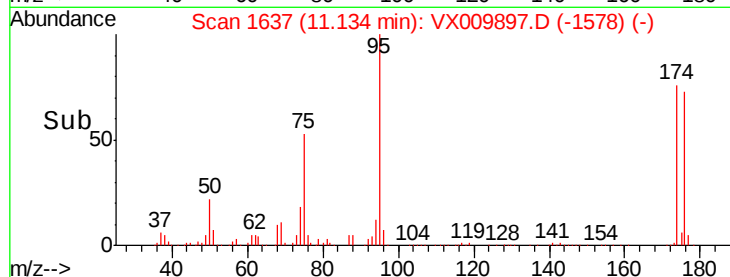
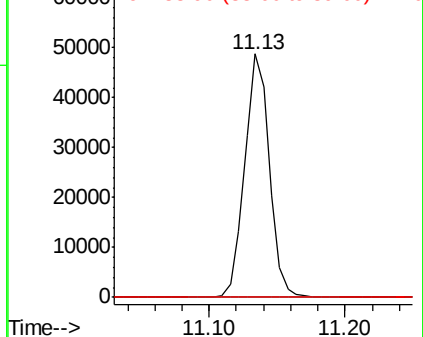
89 0.1 34.7 52.1#



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



#91

1,2-Dichlorobenzene

Concen: 0.958 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX009897.D

Acq: 24 May 2019 19:18

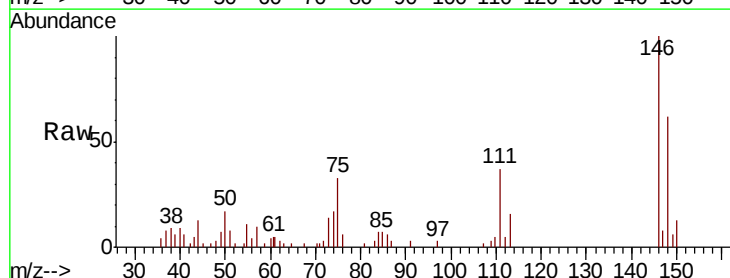
Tgt Ion: 146 Resp: 3428

Ion Ratio Lower Upper

146 100

111 43.8 20.8 62.4

148 63.2 31.9 95.9



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

