

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010937.D
 Acq On : 17 Jul 2019 15:43
 Operator : JC/SP
 Sample : K3855-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY105MW006-190716

Quant Time: Jul 18 02:30:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	208998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	331848	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	309593	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144610	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	109888	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
35) Dibromofluoromethane	5.50	113	104111	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
50) Toluene-d8	8.71	98	398909	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
62) 4-Bromofluorobenzene	11.13	95	139206	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	

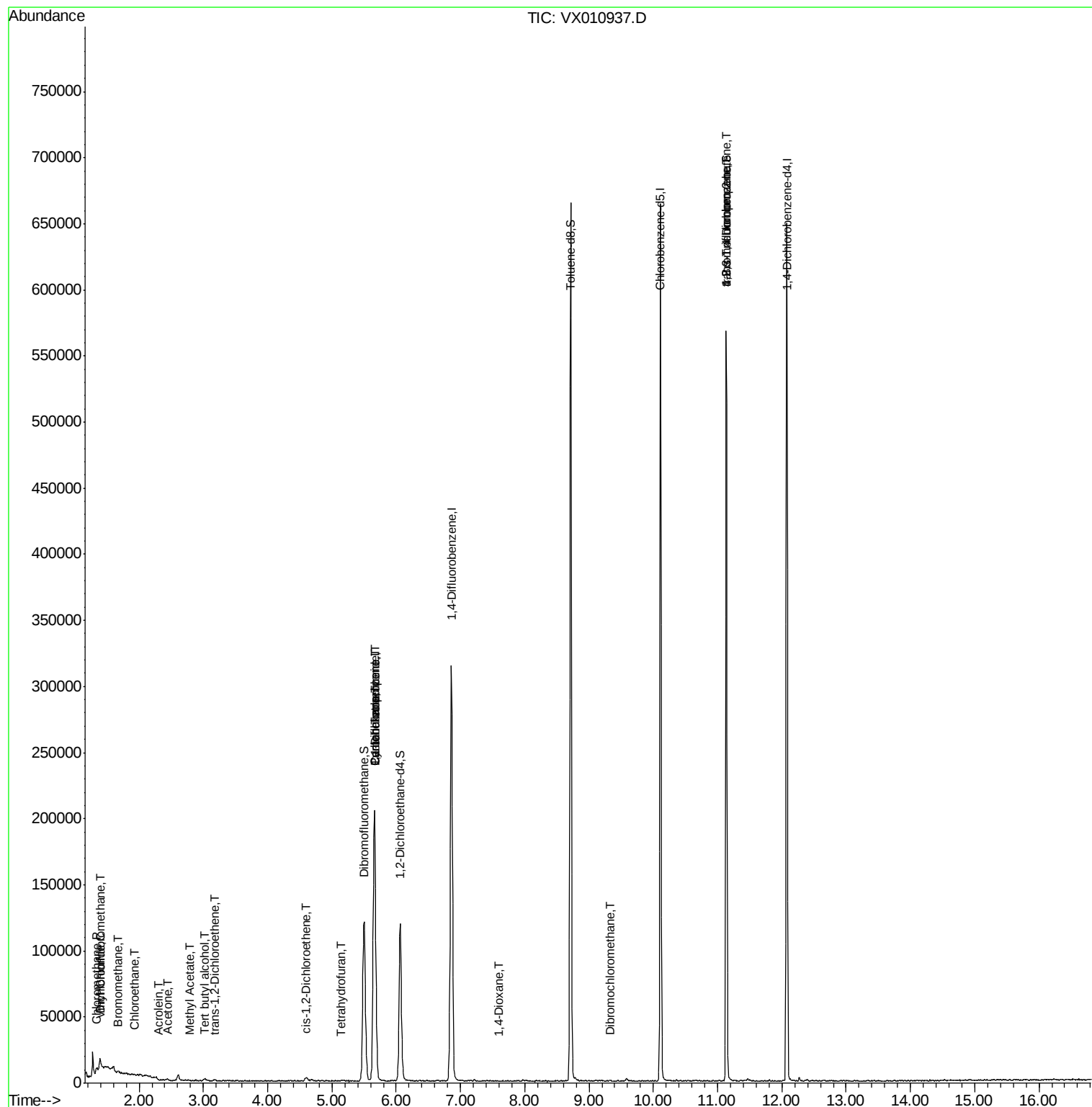
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.39	85	42	0.565	ug/l #	43
3) Chloromethane	1.33	50	699	0.364	ug/l #	74
4) Vinyl Chloride	1.41	62	1985	1.013	ug/l #	82
5) Bromomethane	1.67	94	479	0.434	ug/l #	54
6) Chloroethane	1.92	64	259	0.208	ug/l #	47
11) Tert butyl alcohol	3.02	59	1083	2.091	ug/l #	79
13) Acrolein	2.31	56	123	0.411	ug/l #	15
16) Acetone	2.44	43	1407	1.401	ug/l #	79
18) Methyl Acetate	2.78	43	518	0.227	ug/l #	95
21) trans-1,2-Dichloroethene	3.17	96	408	0.207	ug/l #	55
27) cis-1,2-Dichloroethene	4.60	96	1377	0.602	ug/l #	90
29) Tetrahydrofuran	5.15	42	455	0.498	ug/l #	62
31) Cyclohexane	5.67	56	3982	1.319	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13411	4.920	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19165	6.747	ug/l #	17
49) 1,4-Dioxane	7.59	88	22	0.352	ug/l #	1
60) Dibromochloromethane	9.34	129	25	2.537	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	68814	26.370	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	68814	65.472	ug/l #	11

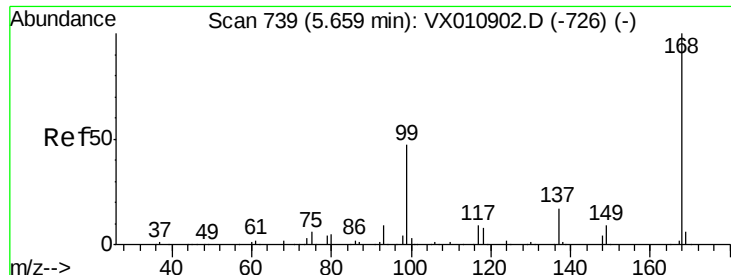
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 17 06:57:45 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

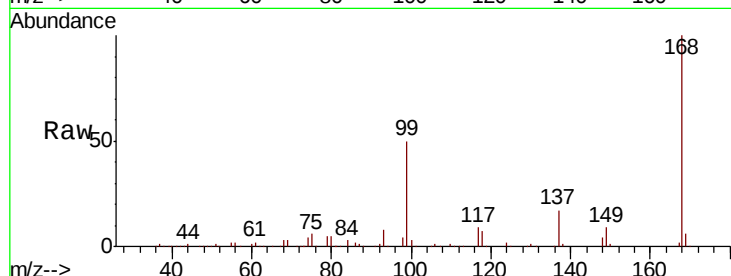
KY105MW006-190716

Tot Ion:168 Resp: 208998

Ion Ratio Lower Upper

168 100

99 49.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

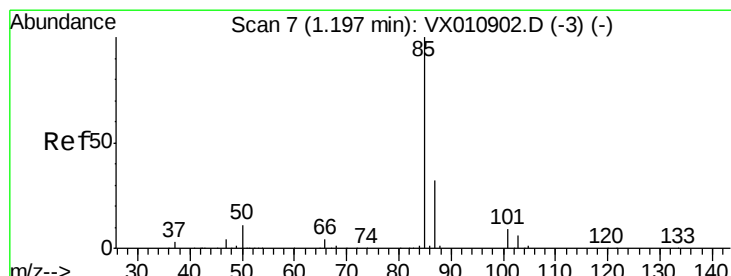
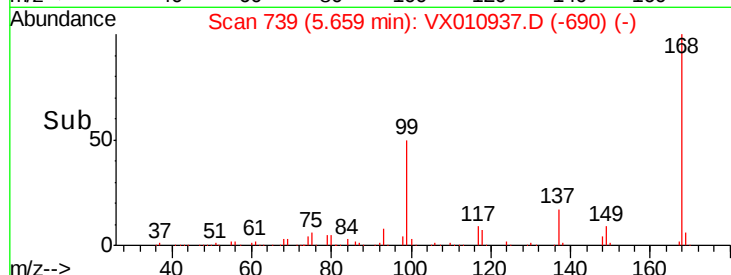
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.565 ug/l

RT: 1.39 min Scan# 38

Delta R.T. 0.19 min

Lab File: VX010937.D

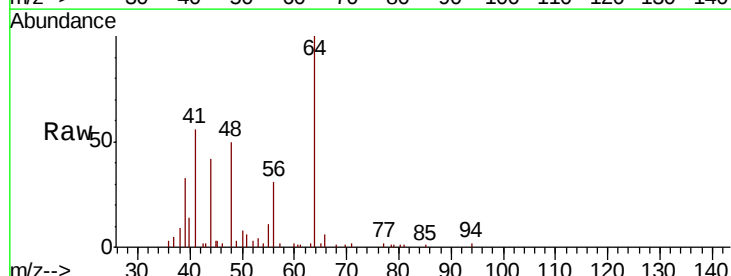
Acq: 17 Jul 2019 15:43

Tgt Ion: 85 Resp: 42

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.39

60

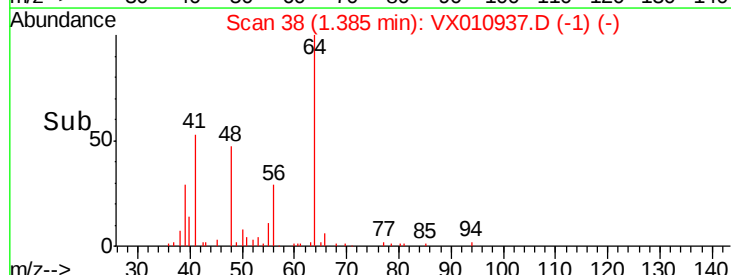
40

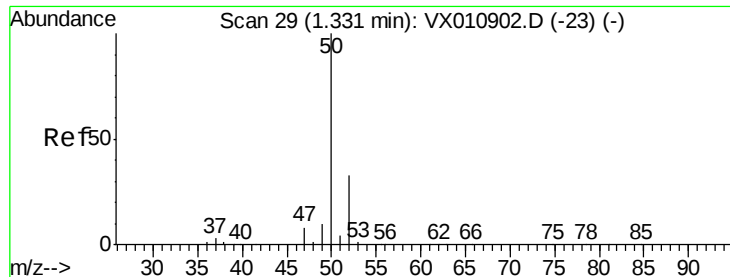
20

0

Time-->

1.36 1.38 1.40





#3

Chloromethane

Concen: 0.364 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

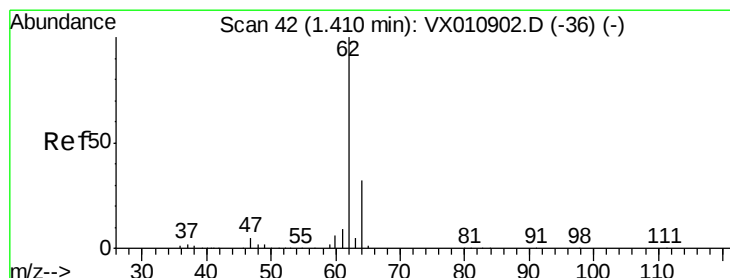
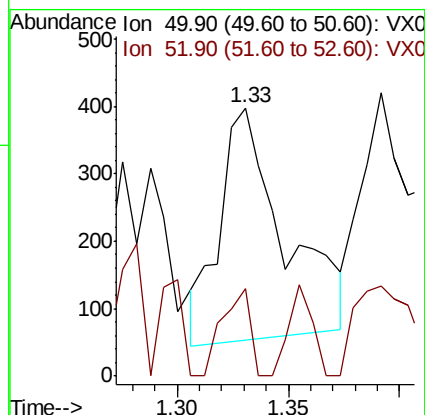
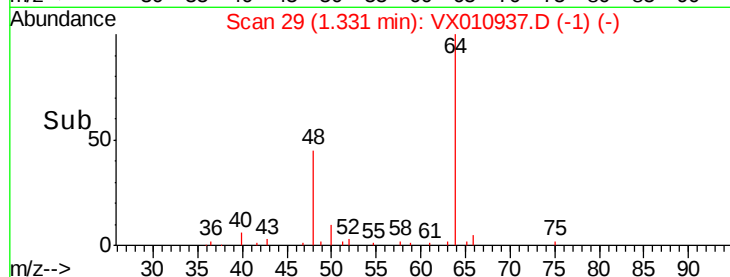
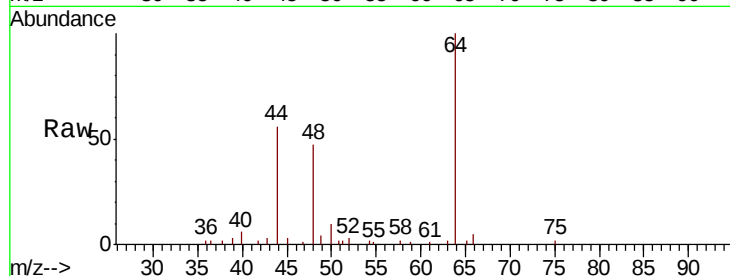
KY105MW006-190716

Tot Ion: 50 Resp: 699

Ion Ratio Lower Upper

50 100

52 48.0 26.4 39.6#



#4

Vinyl Chloride

Concen: 1.013 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010937.D

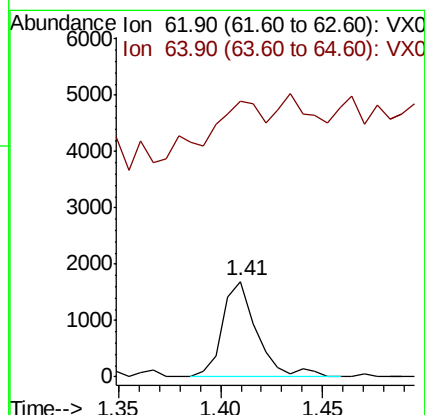
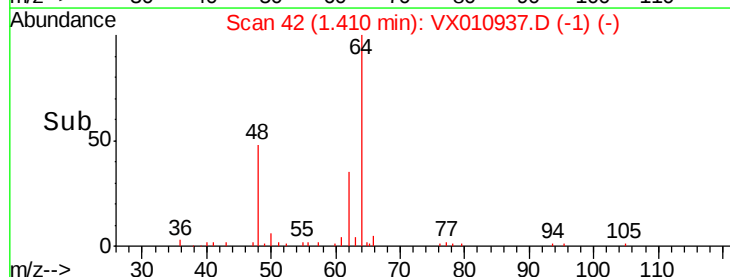
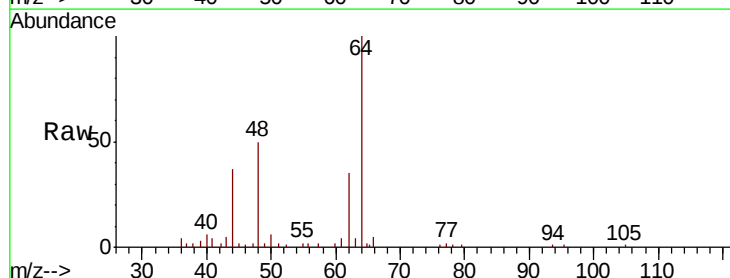
Acq: 17 Jul 2019 15:43

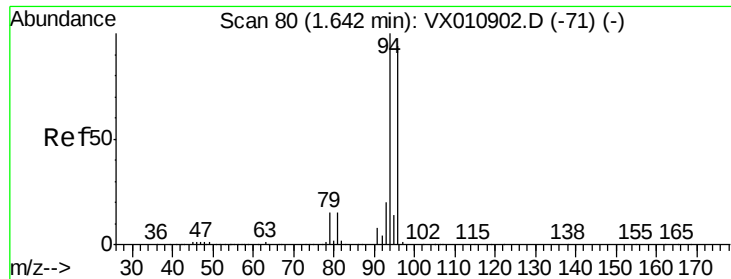
Tgt Ion: 62 Resp: 1985

Ion Ratio Lower Upper

62 100

64 42.0 25.7 38.5#





#5

Bromomethane

Concen: 0.434 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

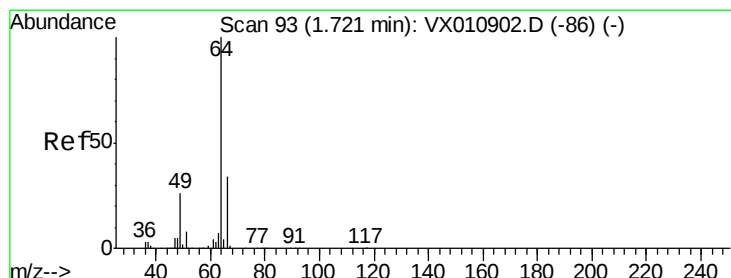
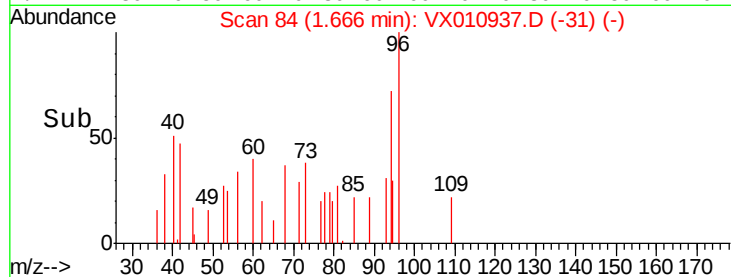
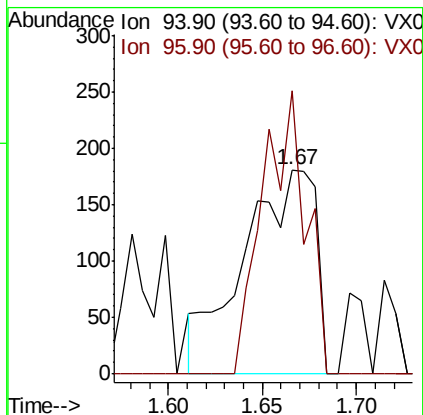
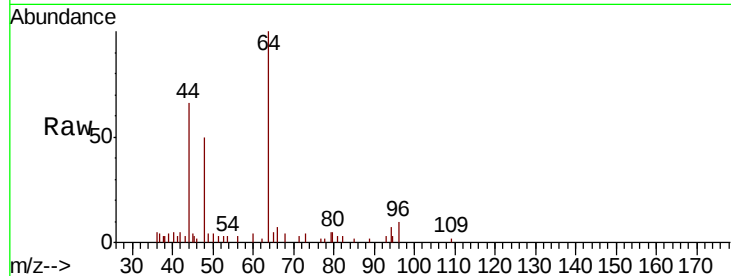
KY105MW006-190716

Tot Ion: 94 Resp: 479

Ion Ratio Lower Upper

94 100

96 138.7 75.6 113.4#



#6

Chloroethane

Concen: 0.208 ug/l

RT: 1.92 min Scan# 126

Delta R.T. 0.20 min

Lab File: VX010937.D

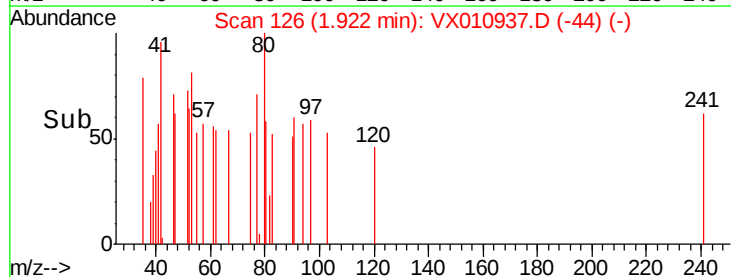
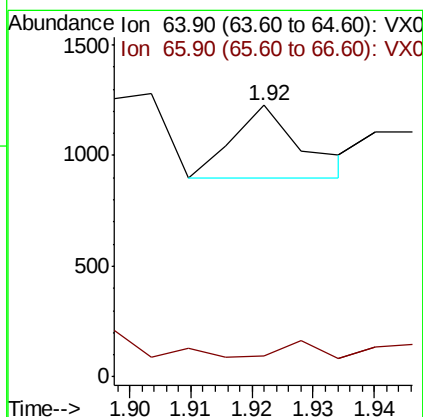
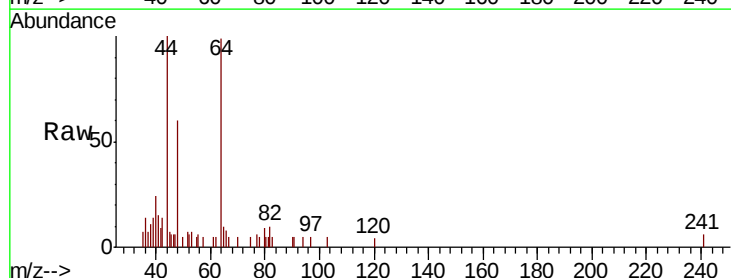
Acq: 17 Jul 2019 15:43

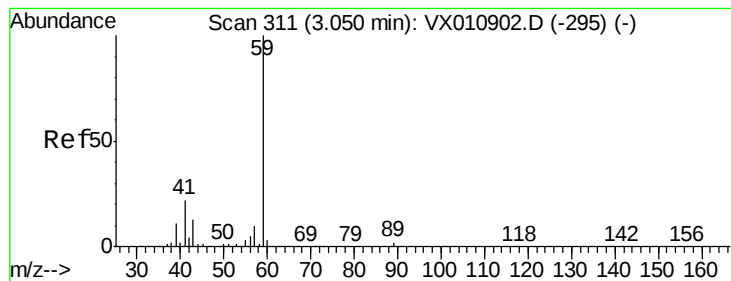
Tgt Ion: 64 Resp: 259

Ion Ratio Lower Upper

64 100

66 3.3 27.0 40.6#



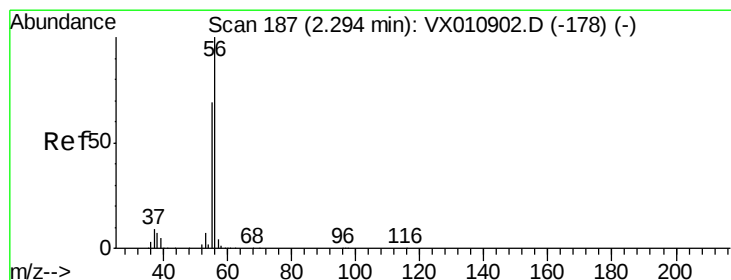
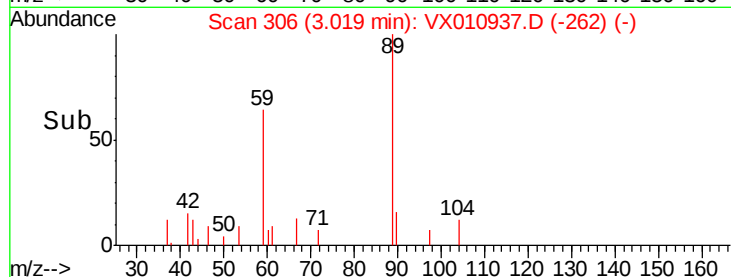
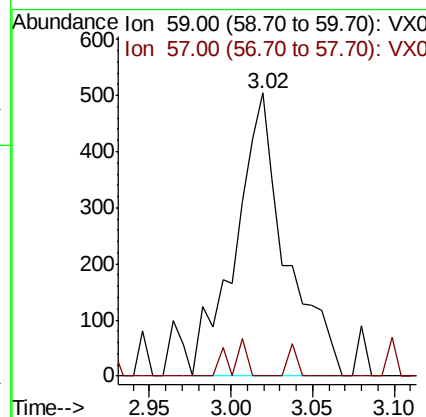
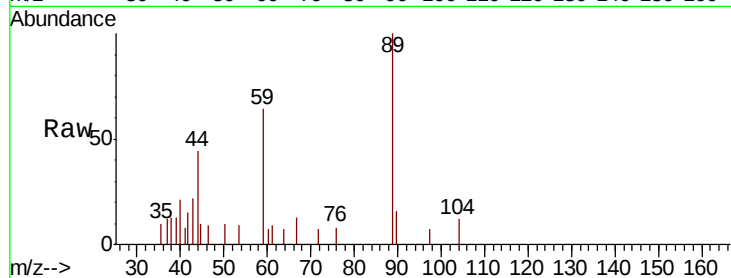


#11

Tert butyl alcohol
 Concen: 2.091 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010937.D
 Acq: 17 Jul 2019 15:43

Instrument :
 MSVOA_X
 ClientSampleId :
 KY105MW006-190716

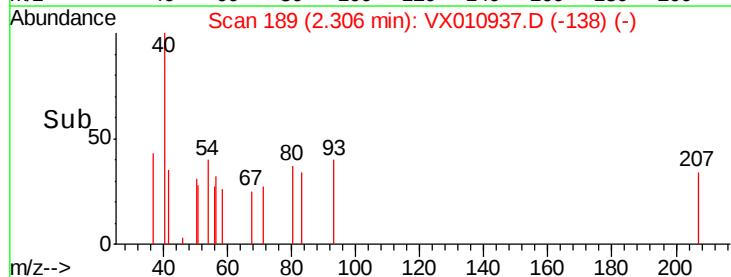
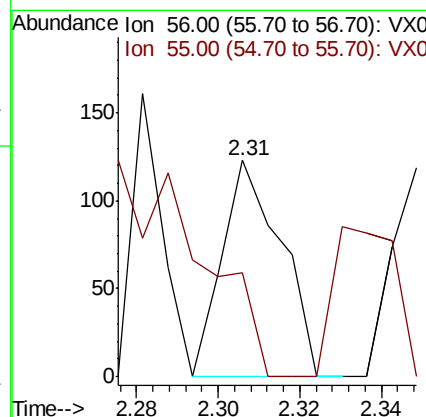
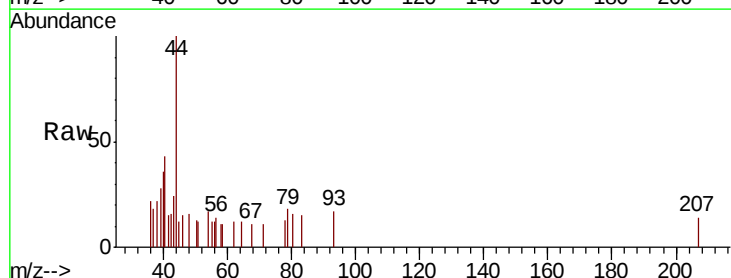
Tot Ion: 59 Resp: 1083
 Ion Ratio Lower Upper
 59 100
 57 2.0 7.9 11.9#

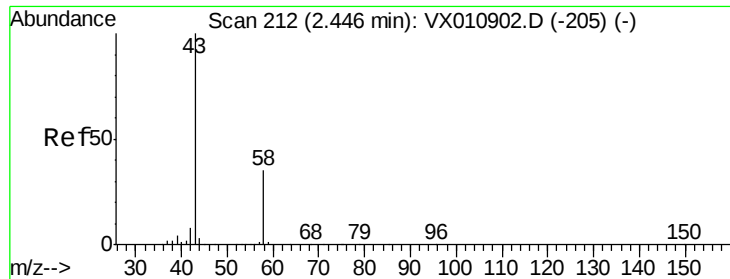


#13

Acrolein
 Concen: 0.411 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX010937.D
 Acq: 17 Jul 2019 15:43

Tgt Ion: 56 Resp: 123
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.9 83.9#





#16

Acetone

Concen: 1.401 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

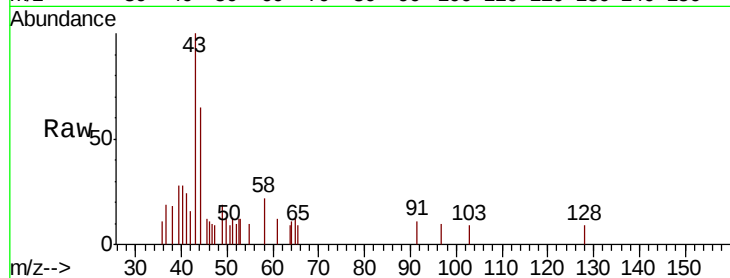
KY105MW006-190716

Tot Ion: 43 Resp: 1407

Ion Ratio Lower Upper

43 100

58 22.2 27.7 41.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

600

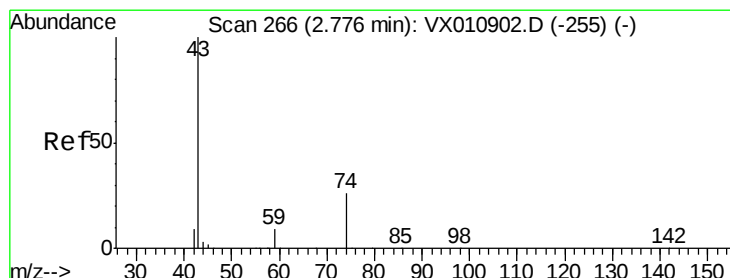
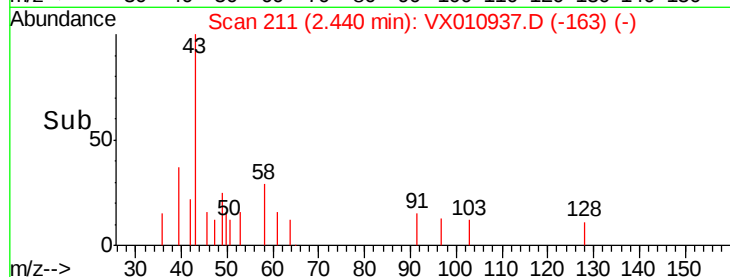
400

200

0

2.35 2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 0.227 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX010937.D

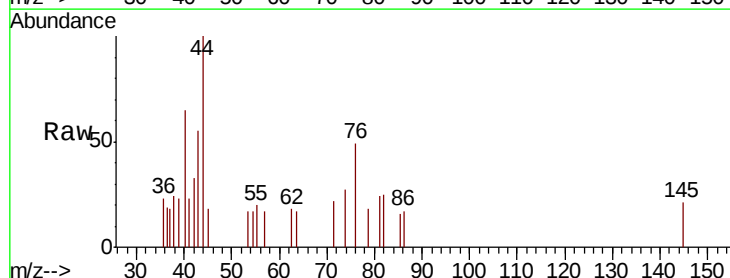
Acq: 17 Jul 2019 15:43

Tgt Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

74 29.7 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

200

150

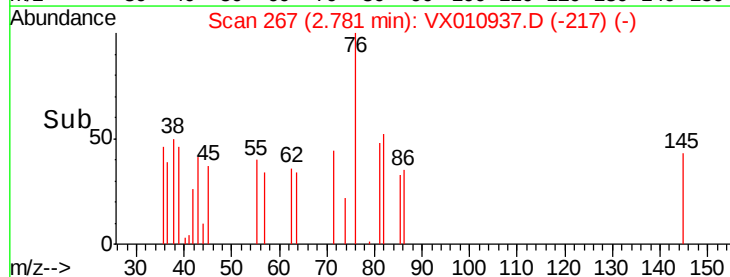
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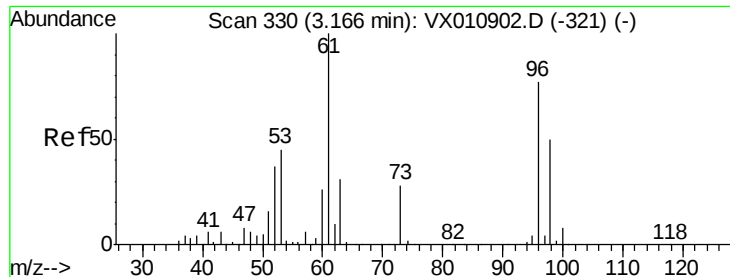
50

0

2.70 2.75 2.80 2.85

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.207 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

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ClientSampleId :

KY105MW006-190716

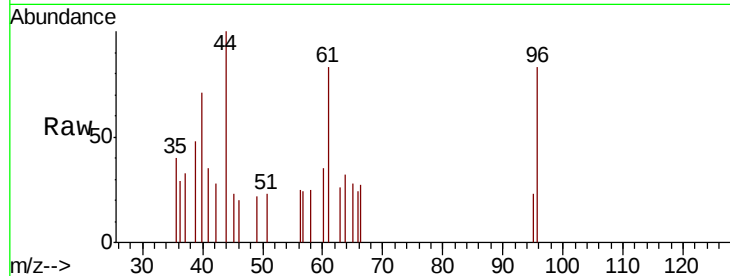
Tot Ion: 96 Resp: 408

Ion Ratio Lower Upper

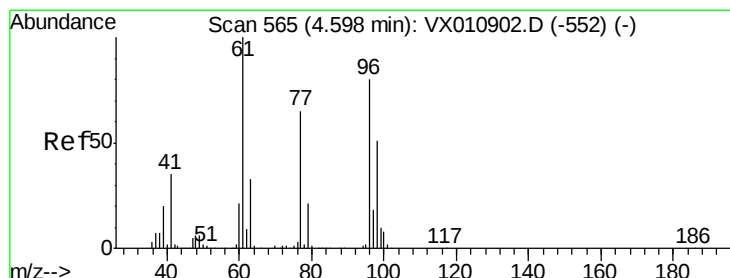
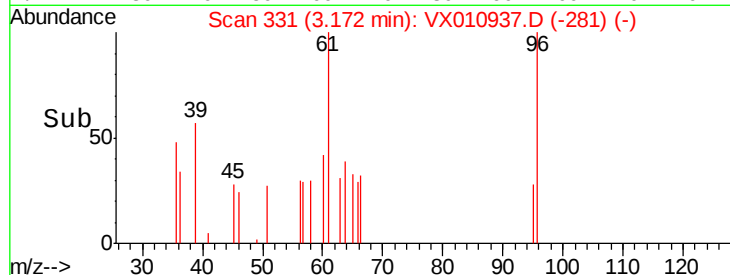
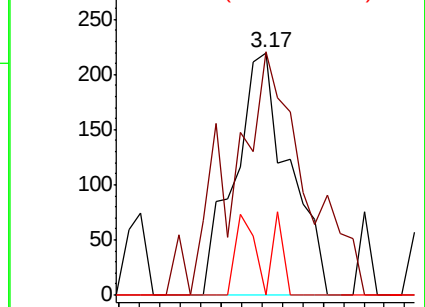
96 100

61 100.5 104.2 156.2#

98 0.0 52.2 78.4#



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



#27

cis-1,2-Dichloroethene

Concen: 0.602 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

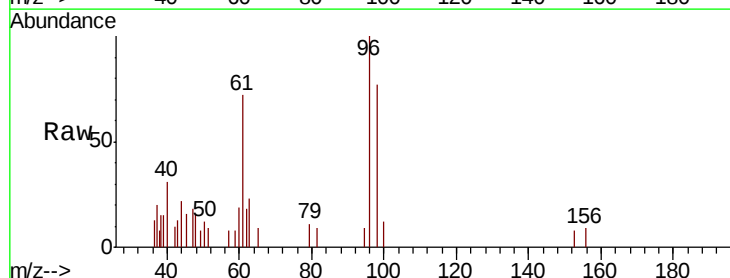
Tgt Ion: 96 Resp: 1377

Ion Ratio Lower Upper

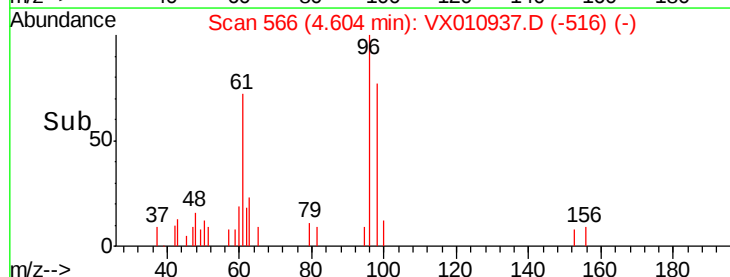
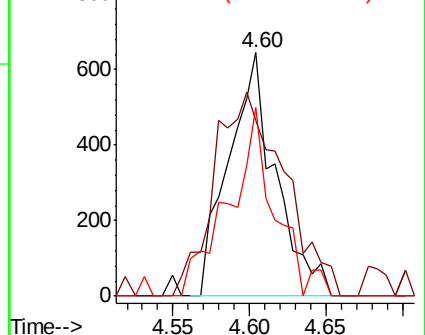
96 100

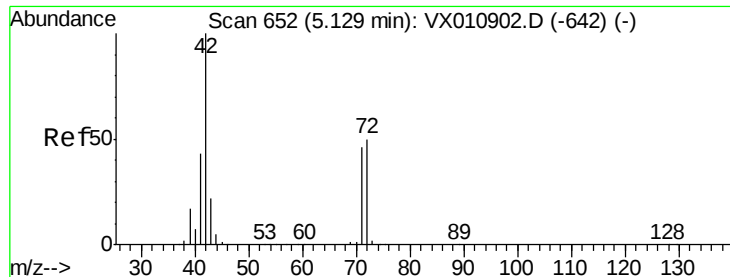
61 125.2 0.0 269.0

98 76.5 0.0 131.4



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





#29

Tetrahydrofuran

Concen: 0.498 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

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KY105MW006-190716

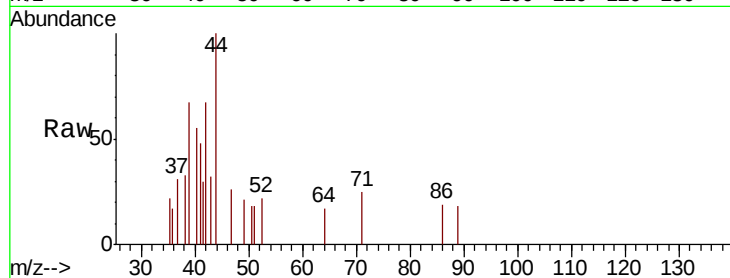
Tot Ion: 42 Resp: 455

Ion Ratio Lower Upper

42 100

72 17.6 39.8 59.8#

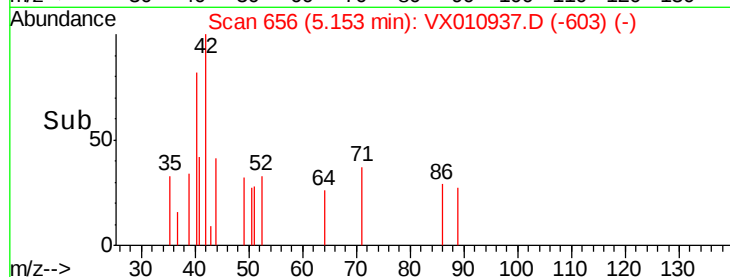
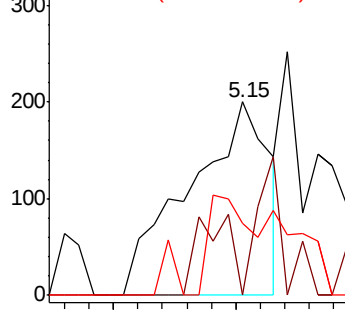
71 27.3 37.0 55.4#



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



#31

Cyclohexane

Concen: 1.319 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

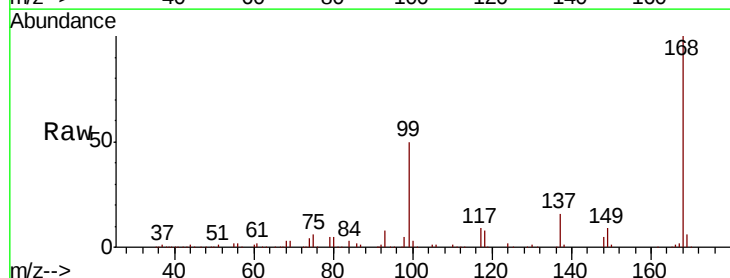
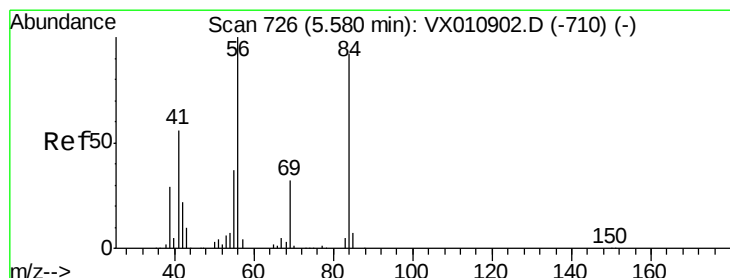
Tgt Ion: 56 Resp: 3982

Ion Ratio Lower Upper

56 100

69 167.7 25.8 38.8#

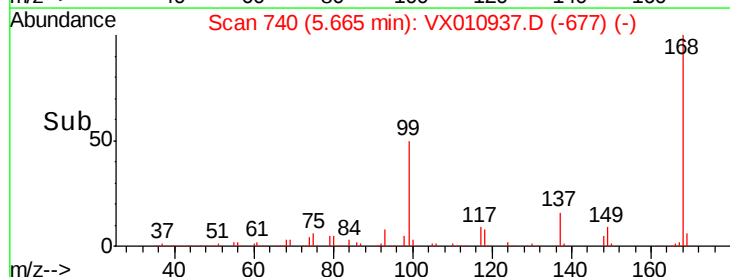
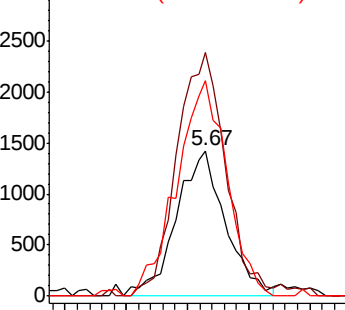
84 148.7 73.8 110.6#

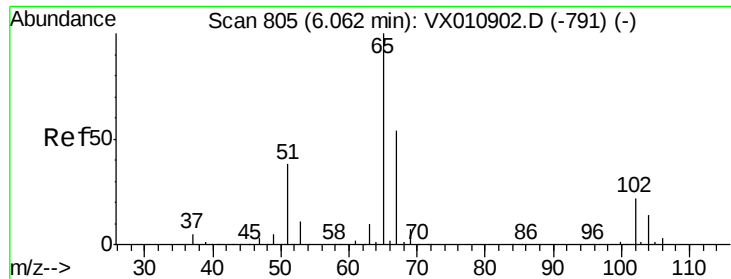


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

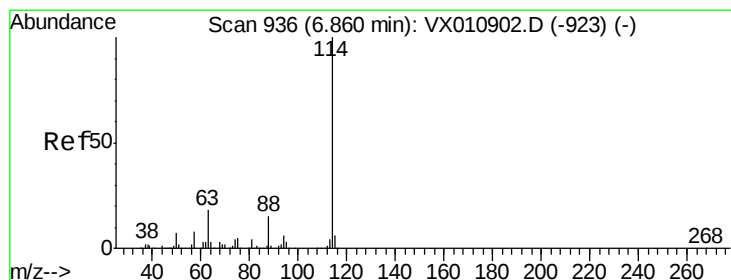
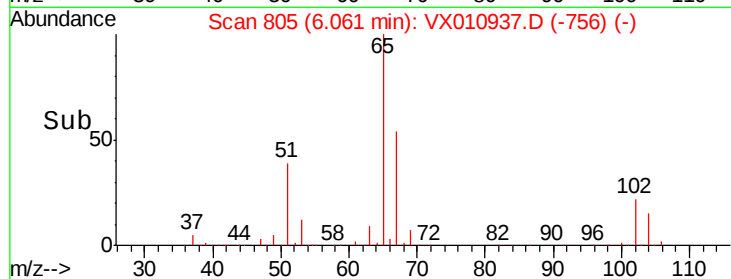
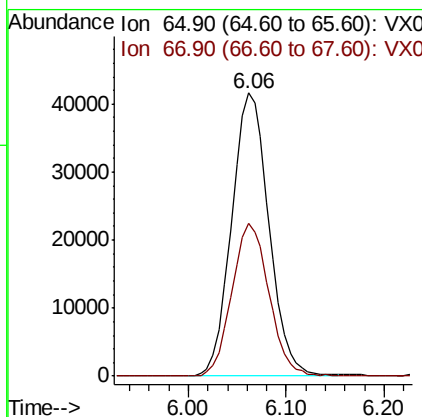
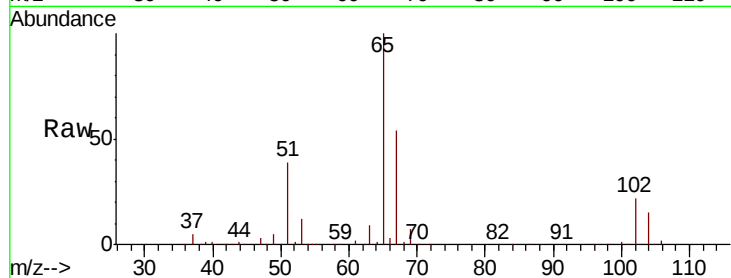




#33
 1,2-Dichloroethane-d4
 Concen: 49.423 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010937.D
 Acq: 17 Jul 2019 15:43

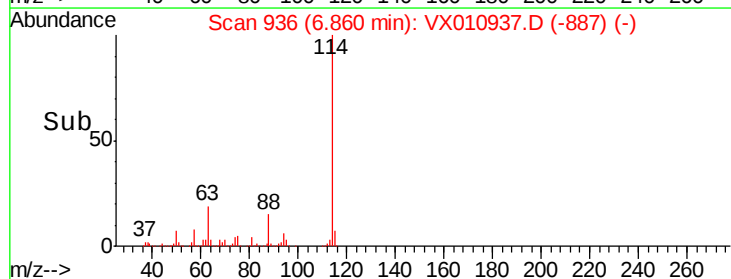
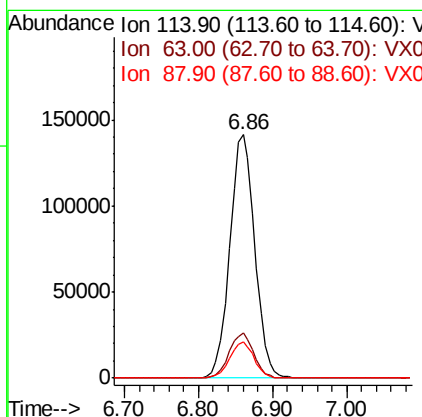
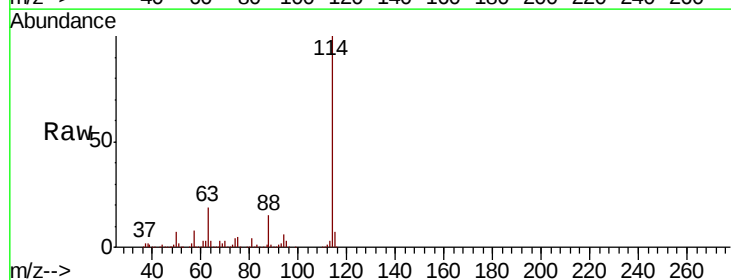
Instrument :
 MSVOA_X
 ClientSampleId :
 KY105MW006-190716

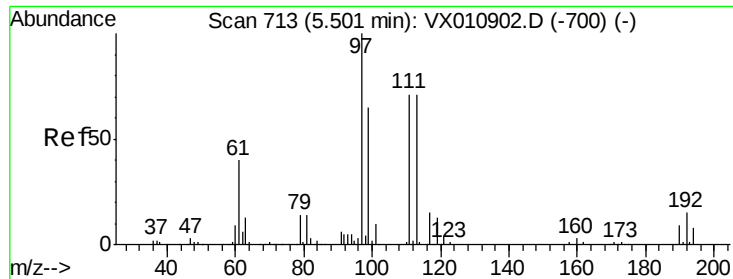
Tot Ion: 65 Resp: 109888
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010937.D
 Acq: 17 Jul 2019 15:43

Tgt Ion: 114 Resp: 331848
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 35.6
 88 14.7 0.0 29.8

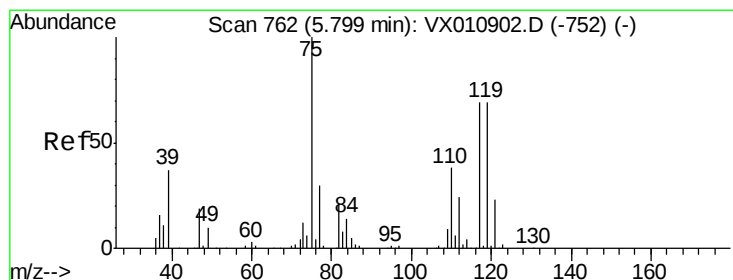
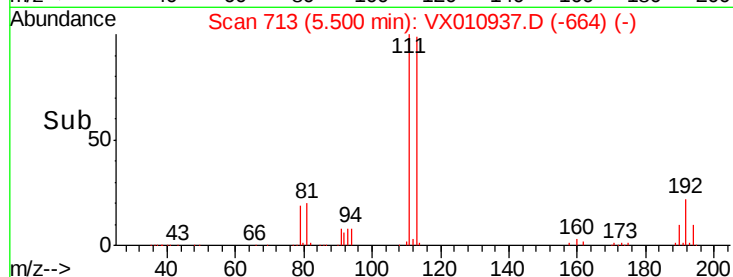
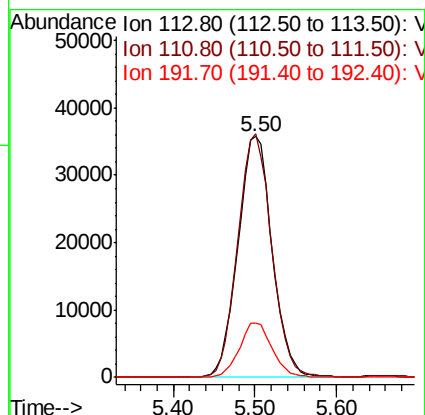
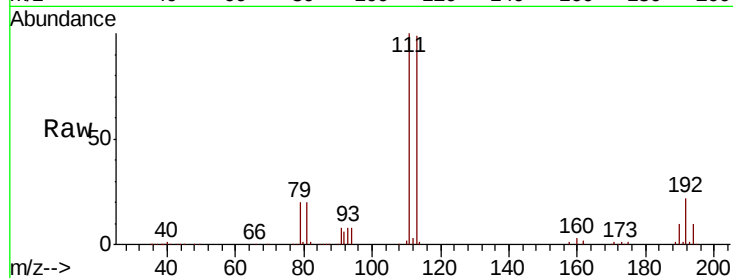




#35
 Dibromofluoromethane
 Concen: 49.428 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX010937.D
 Acq: 17 Jul 2019 15:43

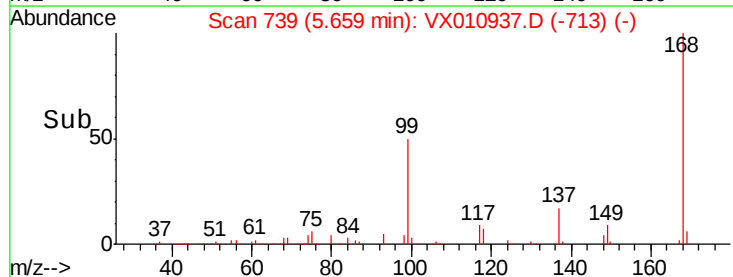
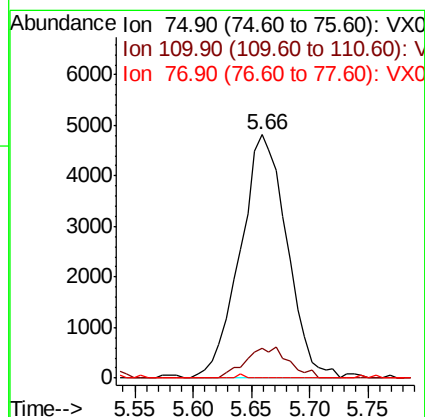
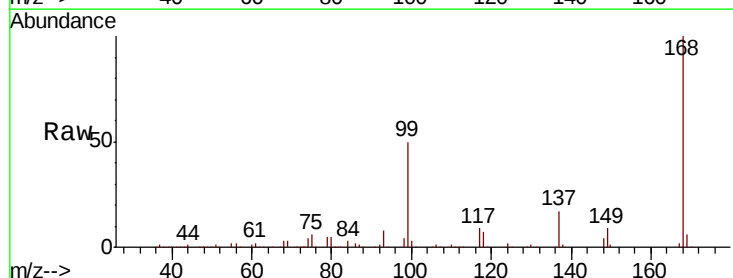
Instrument :
 MSVOA_X
 ClientSampleId :
 KY105MW006-190716

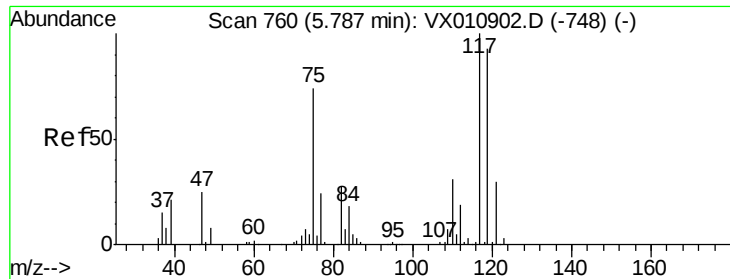
Tot Ion:113 Resp: 104111
 Ion Ratio Lower Upper
 113 100
 111 100.2 82.3 123.5
 192 21.7 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 4.920 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010937.D
 Acq: 17 Jul 2019 15:43

Tgt Ion: 75 Resp: 13411
 Ion Ratio Lower Upper
 75 100
 110 11.7 19.9 59.7#
 77 0.0 25.0 37.4#

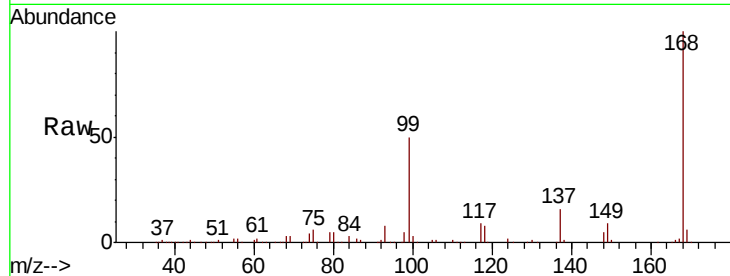




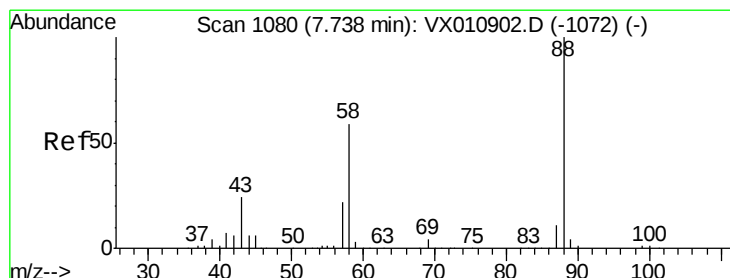
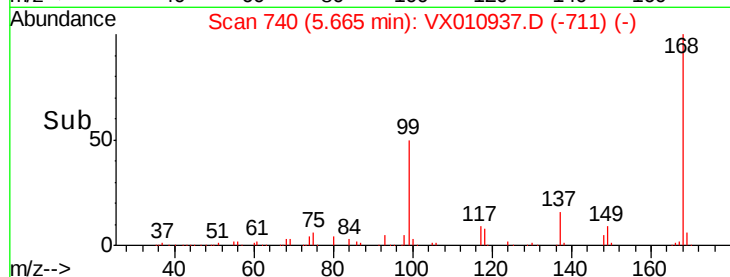
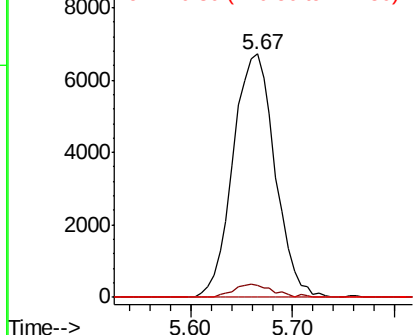
#38
Carbon Tetrachloride
Concen: 6.747 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX010937.D
Acq: 17 Jul 2019 15:43

Instrument :
MSVOA_X
ClientSampleId :
KY105MW006-190716

Tot Ion:117 Resp: 19165
Ion Ratio Lower Upper
117 100
119 5.1 74.2 111.2#
121 0.0 24.2 36.2#

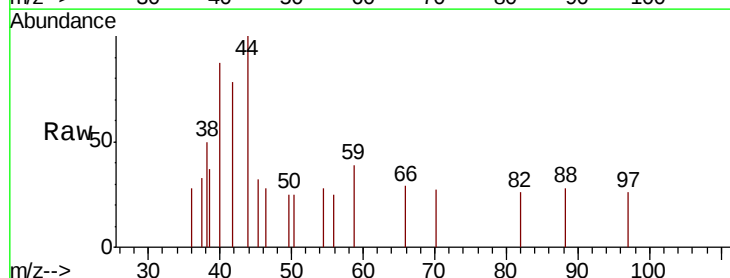


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

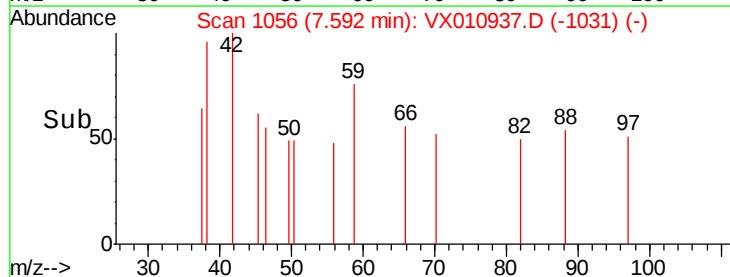
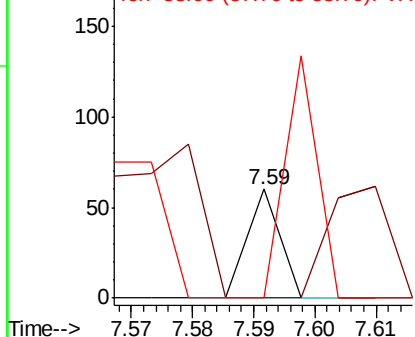


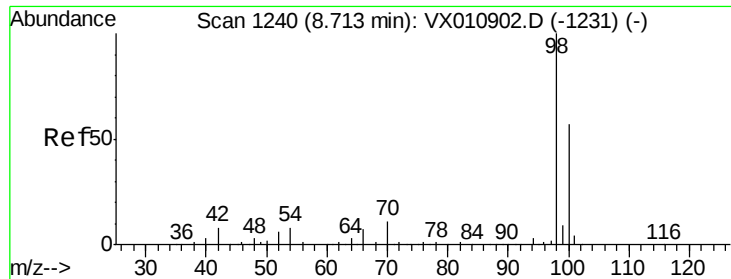
#49
1,4-Dioxane
Concen: 0.352 ug/l
RT: 7.59 min Scan# 1056
Delta R.T. -0.15 min
Lab File: VX010937.D
Acq: 17 Jul 2019 15:43

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 368.2 22.9 34.3#
58 222.7 49.8 74.8#



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





#50

Toluene-d8

Concen: 50.495 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

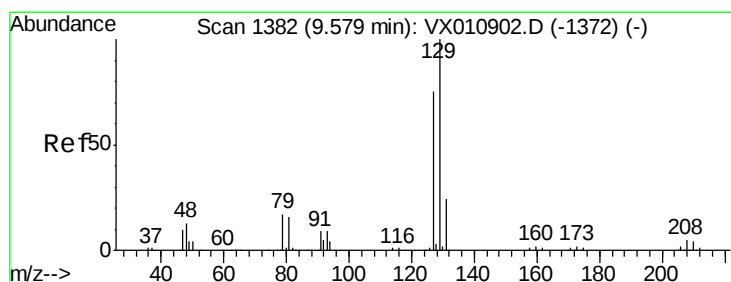
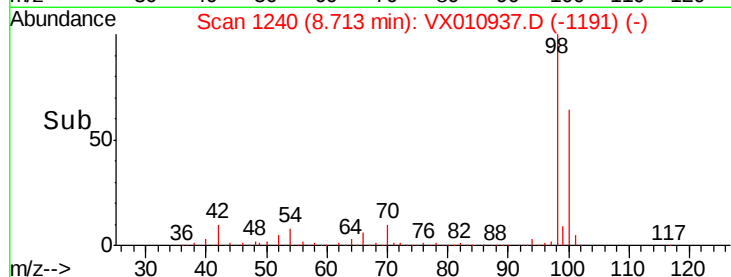
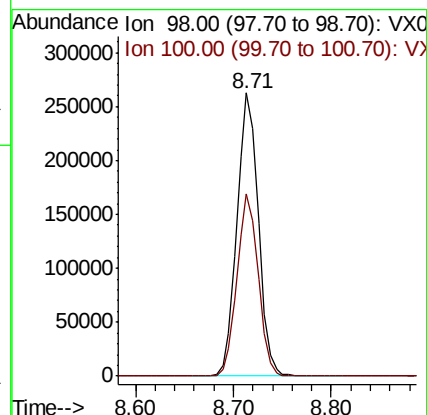
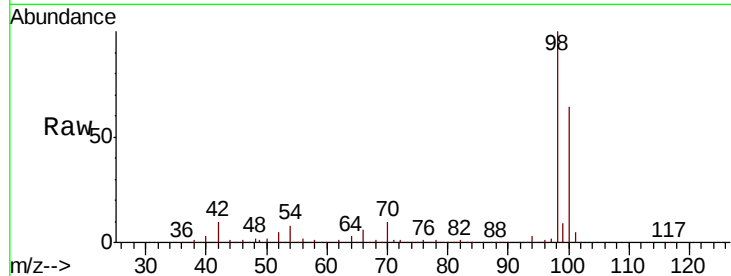
KY105MW006-190716

Tot Ion: 98 Resp: 398909

Ion Ratio Lower Upper

98 100

100 63.7 50.6 75.8



#60

Dibromochloromethane

Concen: 2.537 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. -0.24 min

Lab File: VX010937.D

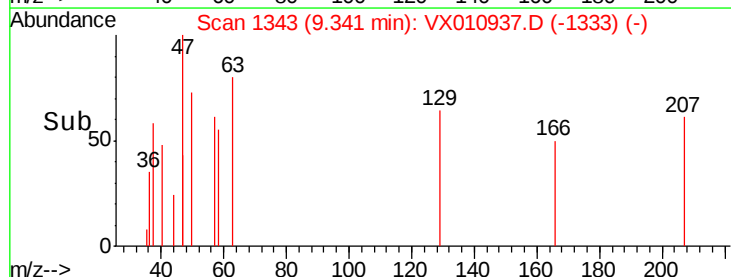
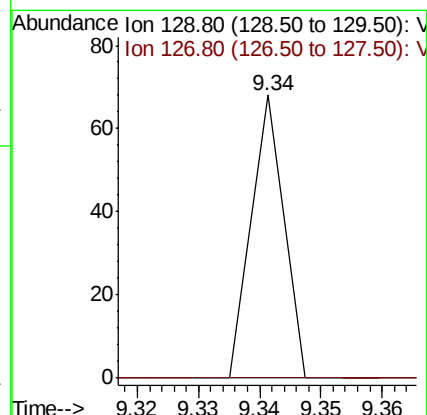
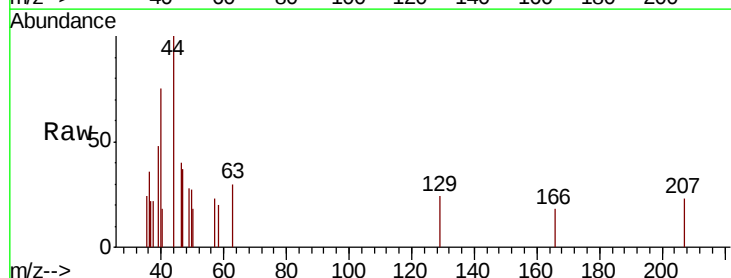
Acq: 17 Jul 2019 15:43

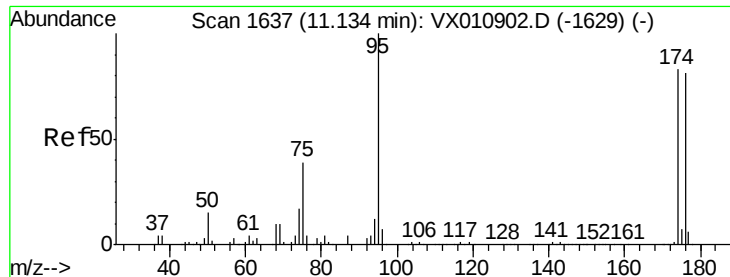
Tgt Ion: 129 Resp: 25

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 47.939 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

KY105MW006-190716

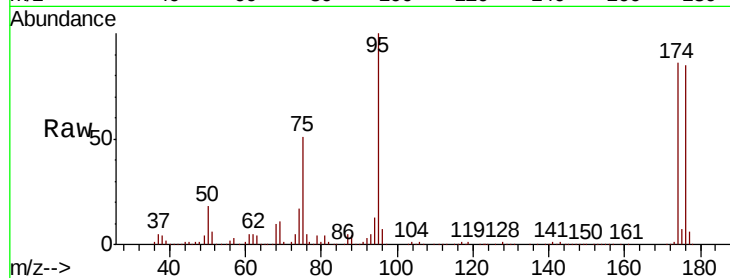
Tot Ion: 95 Resp: 139206

Ion Ratio Lower Upper

95 100

174 91.4 0.0 180.6

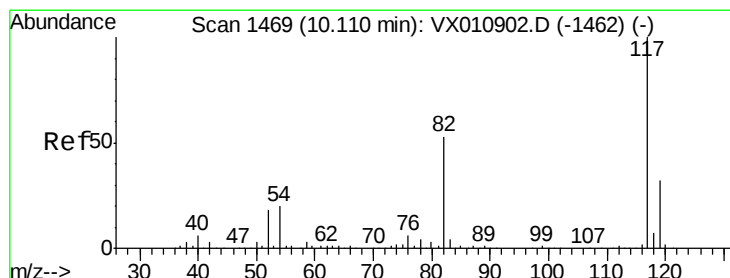
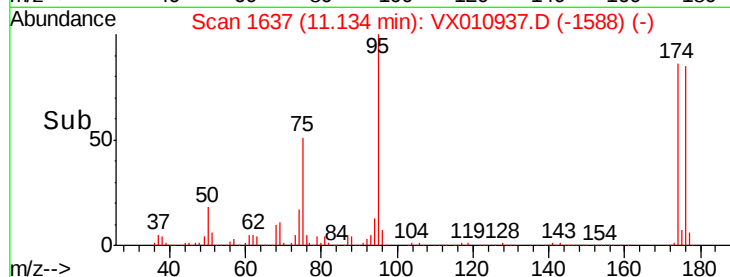
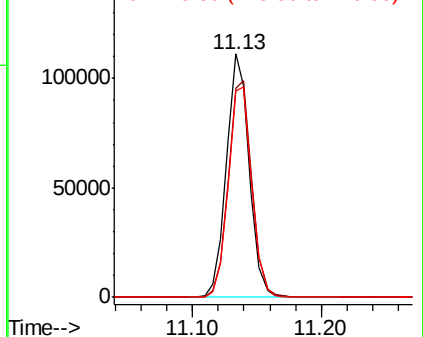
176 89.2 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

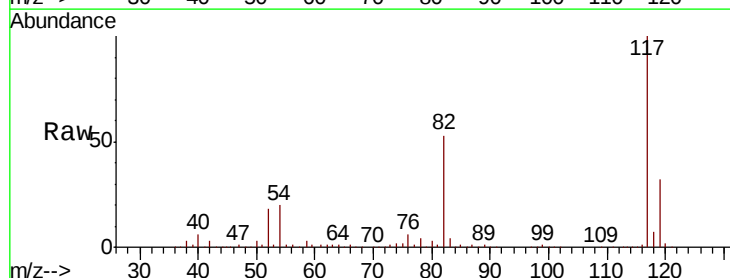
Tgt Ion: 117 Resp: 309593

Ion Ratio Lower Upper

117 100

82 52.9 42.6 63.8

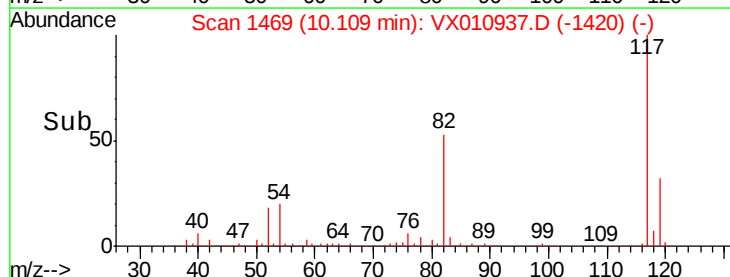
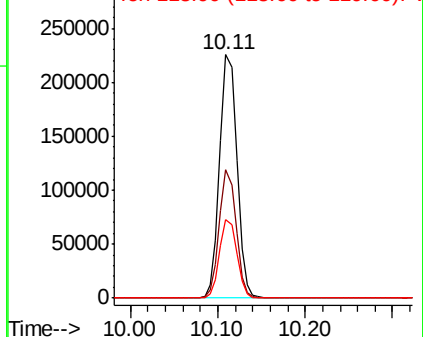
119 32.3 25.9 38.9

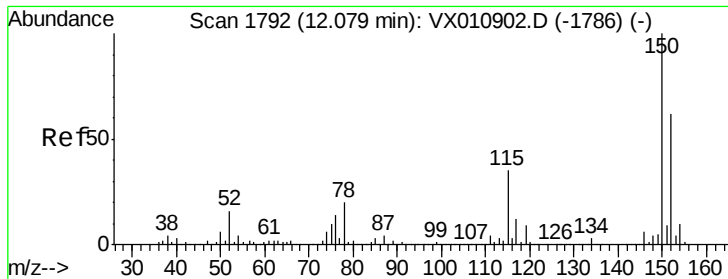


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

KY105MW006-190716

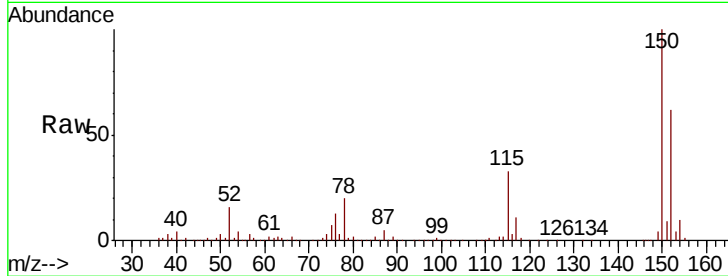
Tot Ion:152 Resp: 144610

Ion Ratio Lower Upper

152 100

115 55.3 39.7 119.1

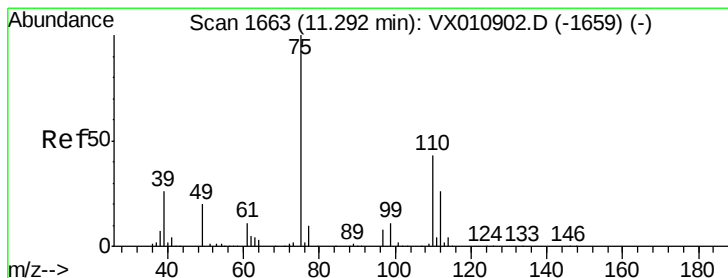
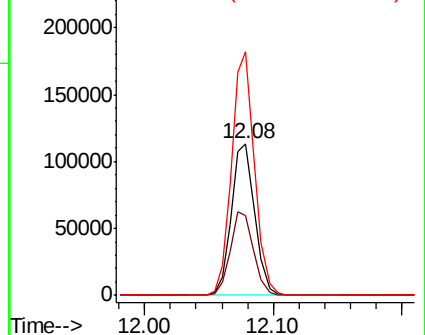
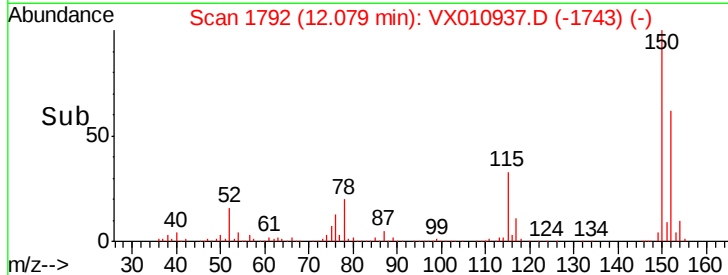
150 156.9 0.0 345.6



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: 26.370 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010937.D

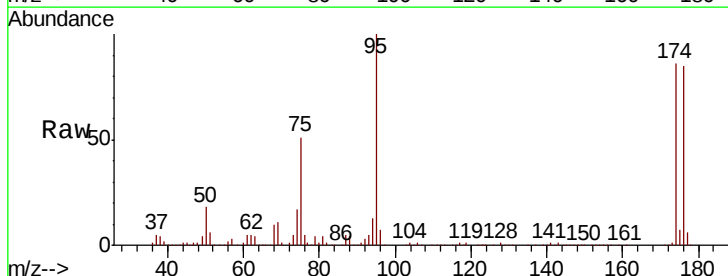
Acq: 17 Jul 2019 15:43

Tgt Ion: 75 Resp: 68814

Ion Ratio Lower Upper

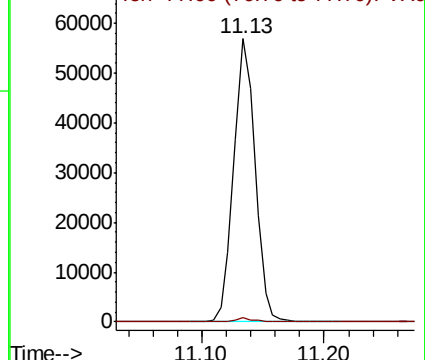
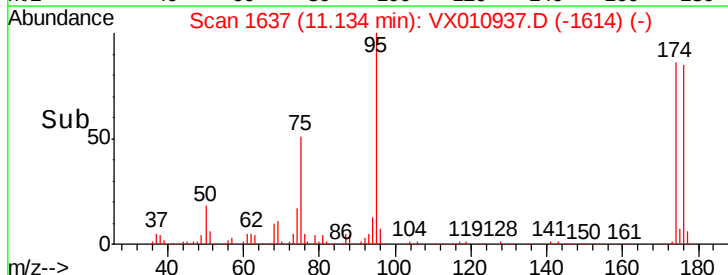
75 100

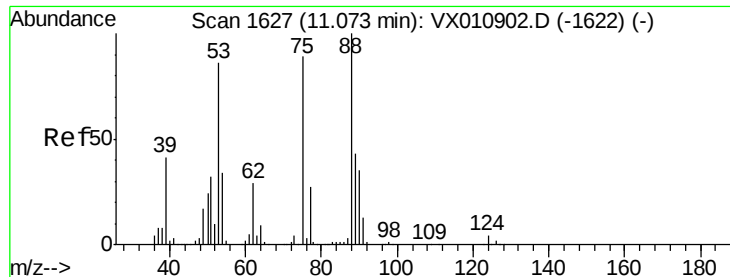
77 1.3 21.3 64.0#



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: 65.472 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010937.D

Acq: 17 Jul 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

KY105MW006-190716

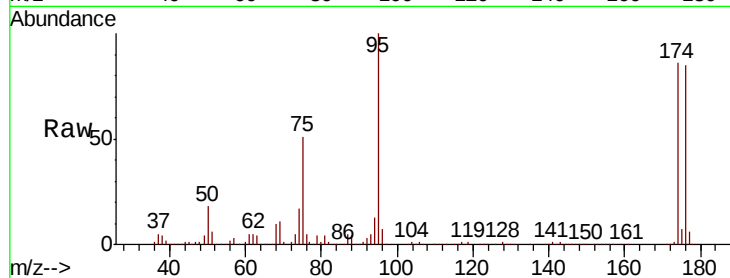
Tot Ion: 75 Resp: 68814

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.1 38.5 57.7#



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

