

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042519\
 Data File : VX009160.D
 Acq On : 25 Apr 2019 14:22
 Operator : JC/SP
 Sample : K2535-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-ER-2019-1

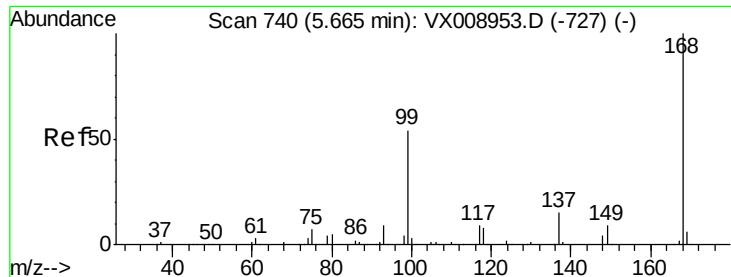
Quant Time: Apr 26 04:29:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	221204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	354287	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	306261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132334	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	144726	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
35) Dibromofluoromethane	5.50	113	106633	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
50) Toluene-d8	8.71	98	437471	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
62) 4-Bromofluorobenzene	11.13	95	148136	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	155	3.923	ug/l #	77
6) Chloroethane	1.64	64	3902	2.180	ug/l #	55
10) Methyl Iodide	2.52	142	153	4.471	ug/l #	84
11) Tert butyl alcohol	3.01	59	3961	5.724	ug/l #	73
16) Acetone	2.45	43	5389	3.334	ug/l	96
17) Carbon Disulfide	2.57	76	1174	1.417	ug/l #	71
20) Methylene Chloride	2.86	84	36280	13.123	ug/l	90
25) 2-Butanone	4.69	43	3136	1.214	ug/l	98
28) Bromochloromethane	5.03	49	21	Below Cal	#	21
29) Tetrahydrofuran	5.13	42	157548	91.092	ug/l	97
31) Cyclohexane	5.67	56	5019	1.011	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17078	4.661	ug/l #	50
37) Ethyl Acetate	4.69	43	3136	0.665	ug/l #	80
38) Carbon Tetrachloride	5.66	117	20827	6.705	ug/l #	17
41) Methacrylonitrile	5.13	41	84866	31.362	ug/l #	48
49) 1,4-Dioxane	7.95	88	19	0.270	ug/l #	26
76) 1,2,3-Trichloropropane	11.13	75	74227	22.971	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	74227	58.973	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampleId :

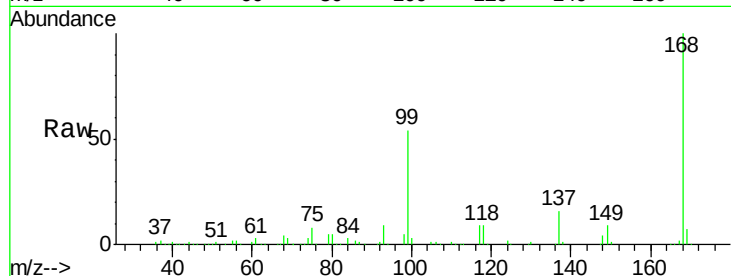
S37-ER-2019-1

Tot Ion:168 Resp: 221204

Ion Ratio Lower Upper

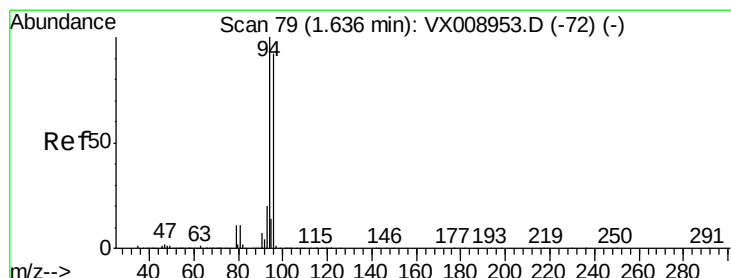
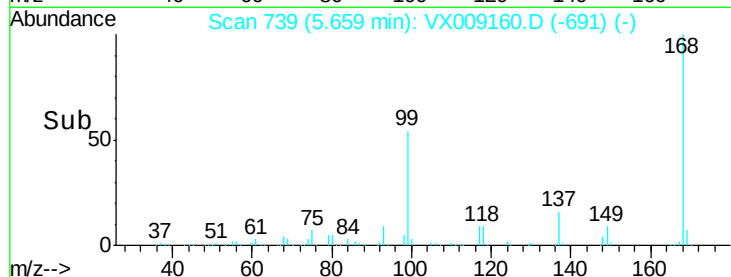
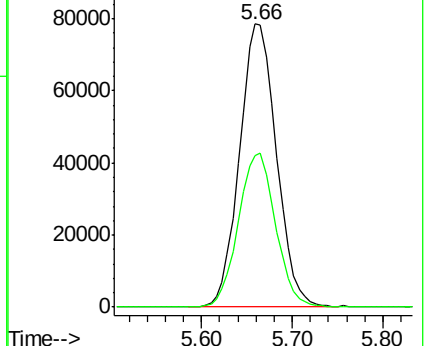
168 100

99 53.6 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: 3.923 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009160.D

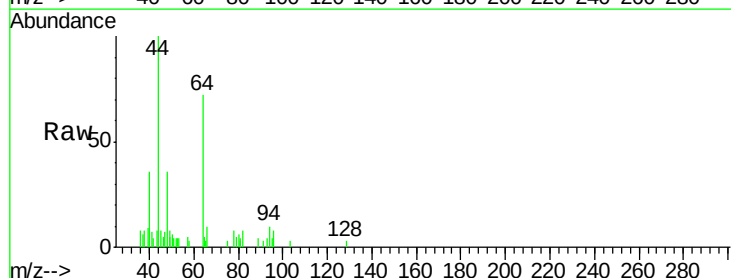
Acq: 25 Apr 2019 14:22

Tgt Ion: 94 Resp: 155

Ion Ratio Lower Upper

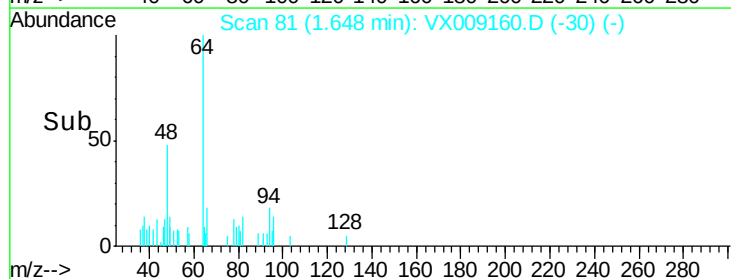
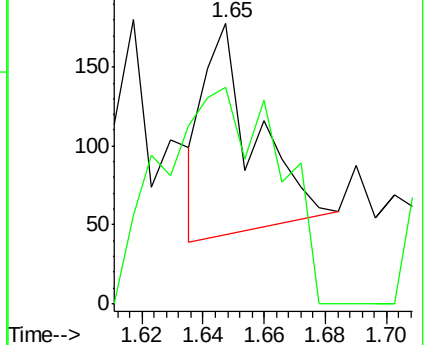
94 100

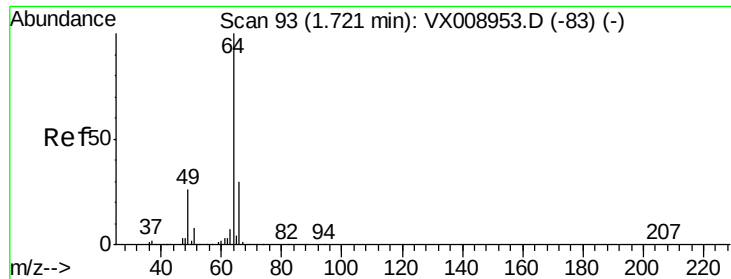
96 114.2 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 2.180 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.09 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampleId :

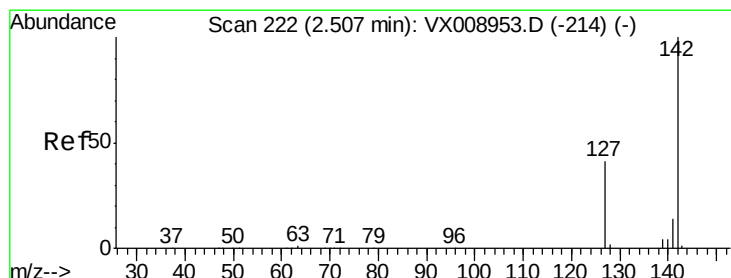
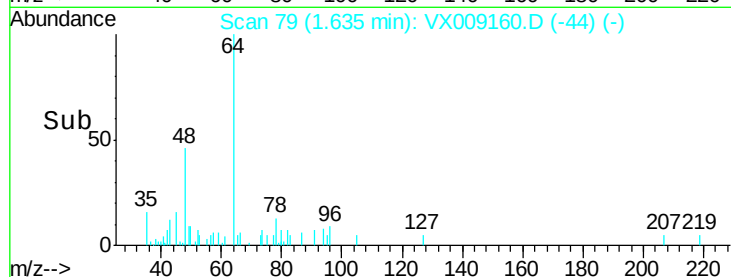
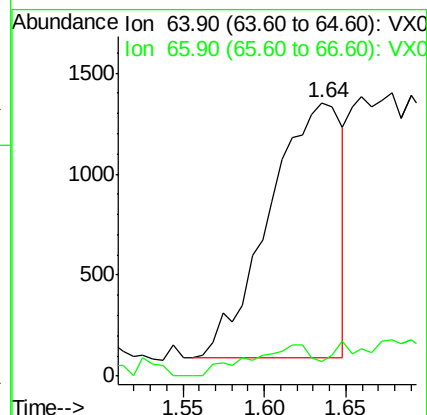
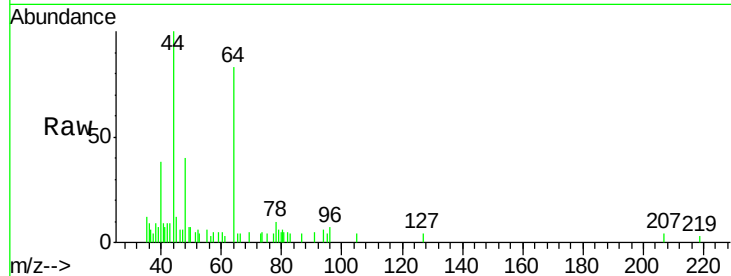
S37-ER-2019-1

Tot Ion: 64 Resp: 3902

Ion Ratio Lower Upper

64 100

66 5.8 24.2 36.2#



#10

Methyl Iodide

Concen: 4.471 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

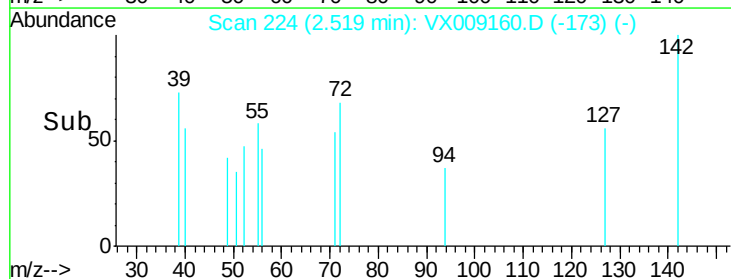
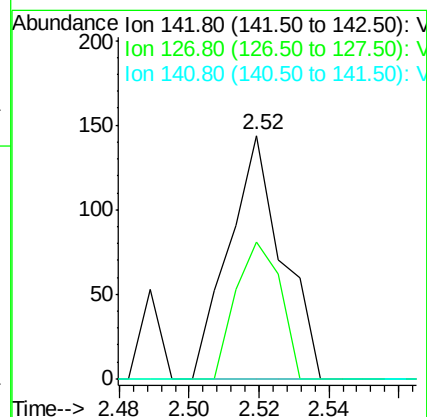
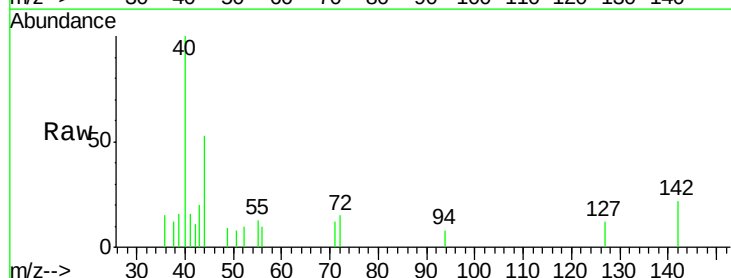
Tgt Ion: 142 Resp: 153

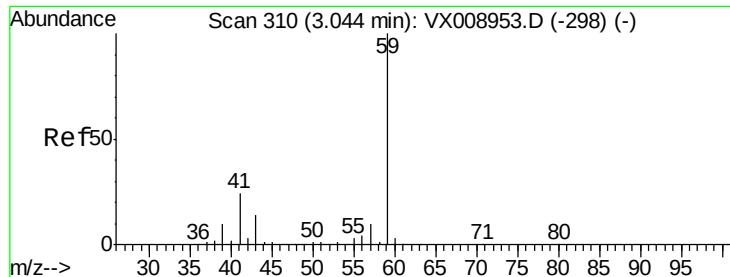
Ion Ratio Lower Upper

142 100

127 47.1 32.8 49.2

141 0.0 11.4 17.2#



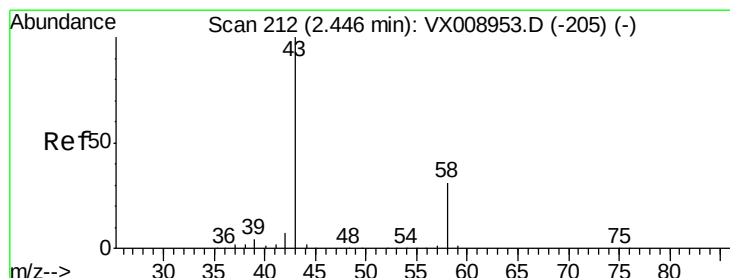
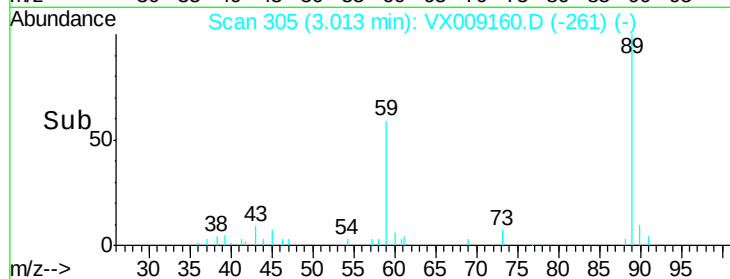
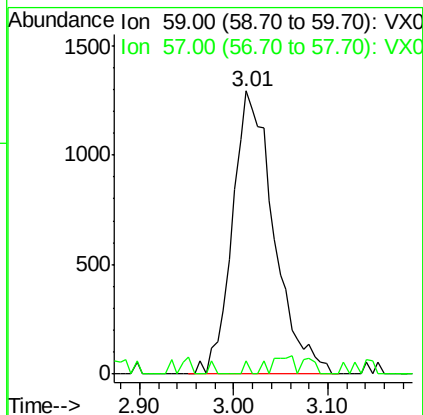
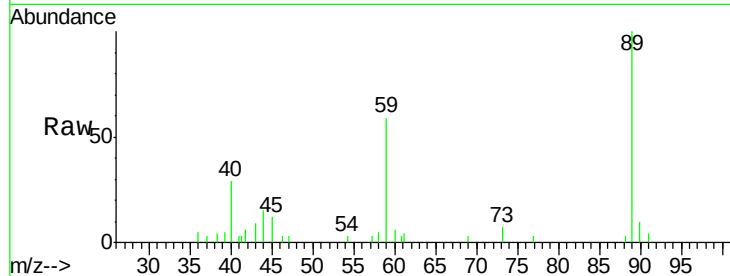


#11

Tert butyl alcohol
 Concen: 5.724 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.03 min
 Lab File: VX009160.D
 Acq: 25 Apr 2019 14:22

Instrument :
 MSVOA_X
 ClientSampled :
 S37-ER-2019-1

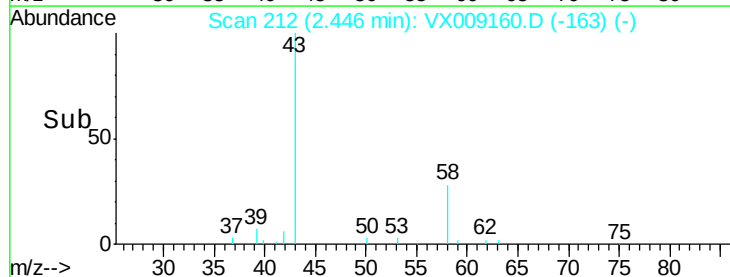
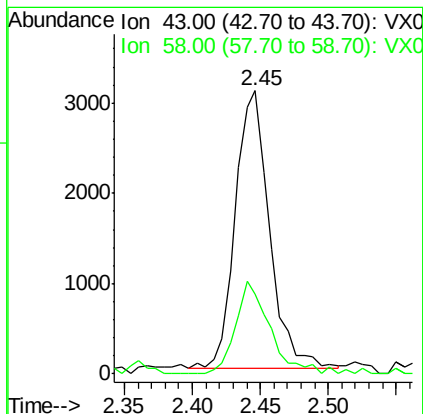
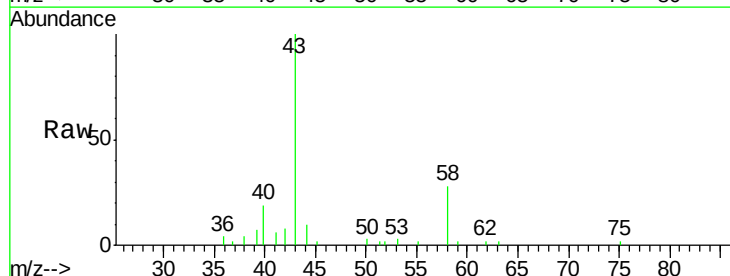
Tot Ion: 59 Resp: 3961
 Ion Ratio Lower Upper
 59 100
 57 0.5 8.4 12.6#

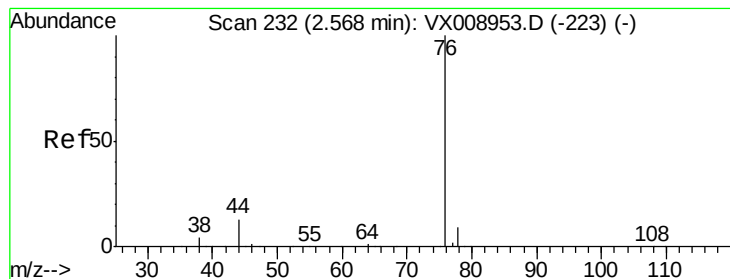


#16

Acetone
 Concen: 3.334 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX009160.D
 Acq: 25 Apr 2019 14:22

Tgt Ion: 43 Resp: 5389
 Ion Ratio Lower Upper
 43 100
 58 28.6 24.8 37.2





#17

Carbon Disulfide

Concen: 1.417 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampleId :

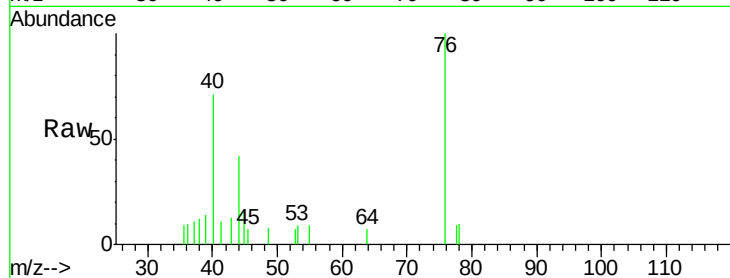
S37-ER-2019-1

Tot Ion: 76 Resp: 1174

Ion Ratio Lower Upper

76 100

78 19.5 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

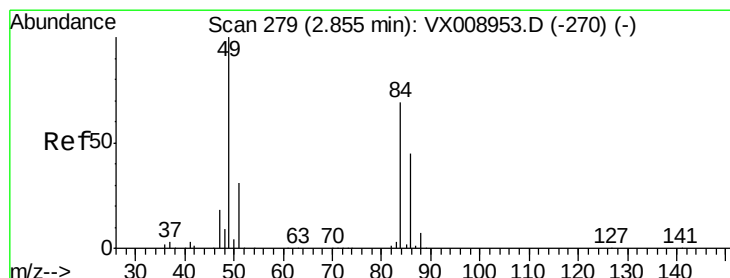
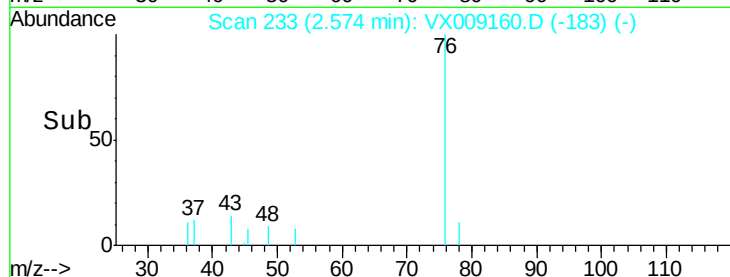
600

400

200

0

Time--> 2.50 2.55 2.60



#20

Methylene Chloride

Concen: 13.123 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Tgt Ion: 84 Resp: 36280

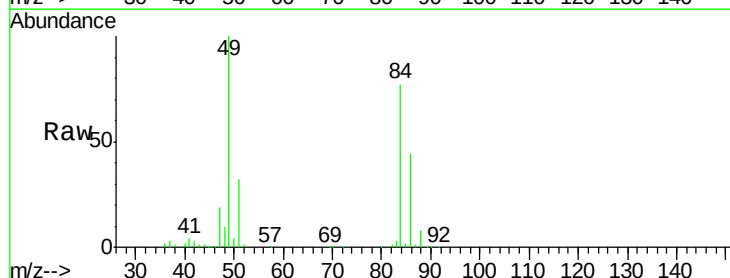
Ion Ratio Lower Upper

84 100

49 129.7 115.4 173.0

51 40.9 35.8 53.6

86 57.6 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

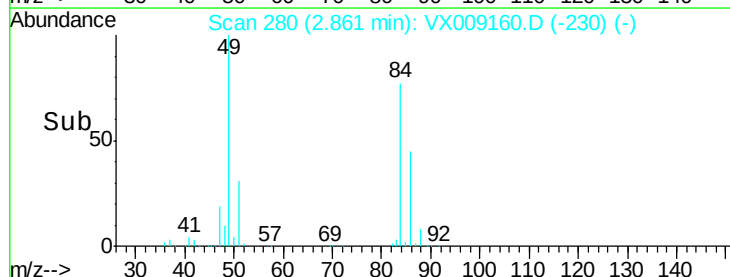
30000

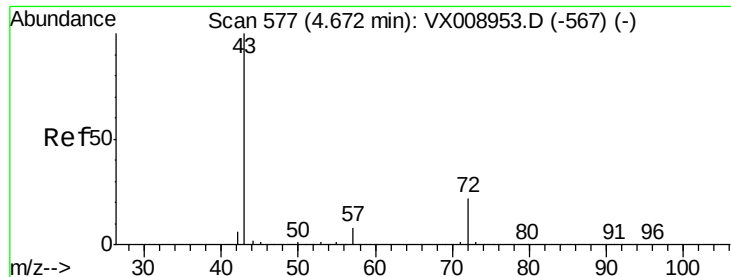
20000

10000

0

Time--> 2.75 2.80 2.85 2.90 2.95





#25

2-Butanone

Concen: 1.214 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampleId :

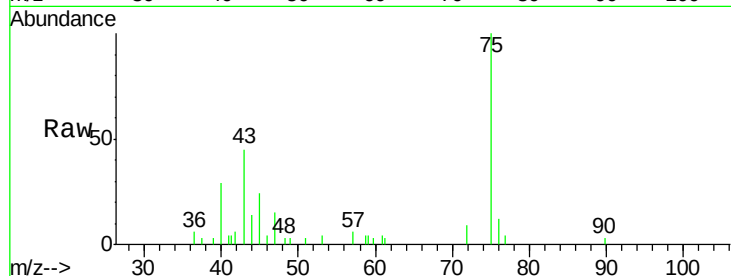
S37-ER-2019-1

Tot Ion: 43 Resp: 3136

Ion Ratio Lower Upper

43 100

72 20.8 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

1000

800

600

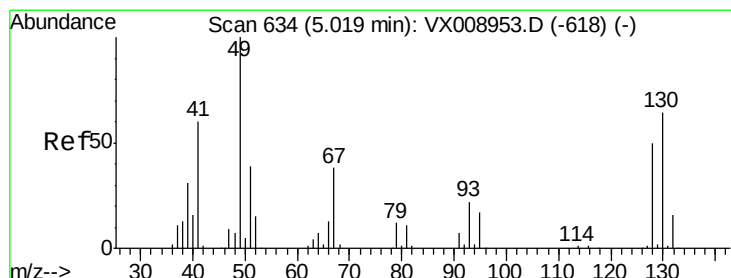
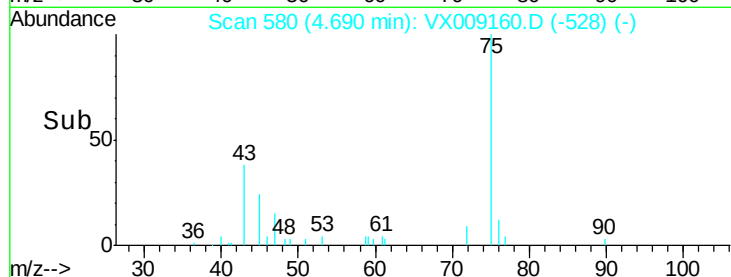
400

200

0

4.60 4.65 4.70 4.75 4.80

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

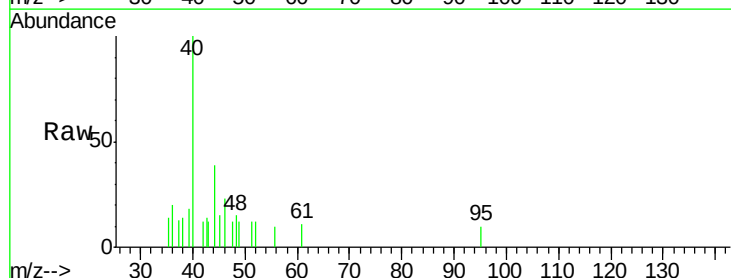
Tgt Ion: 49 Resp: 21

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 50.4 75.6#



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

80

60

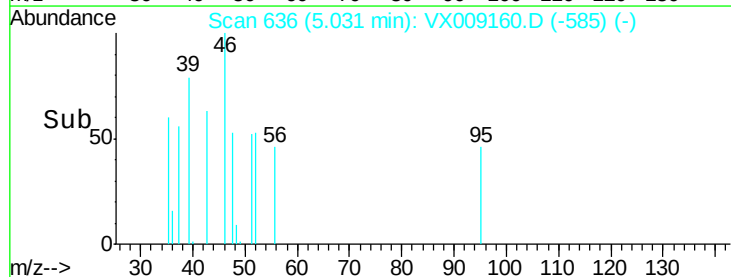
40

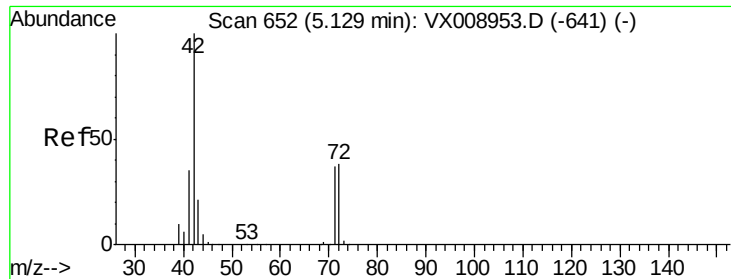
20

0

5.02 5.03 5.04

Time-->

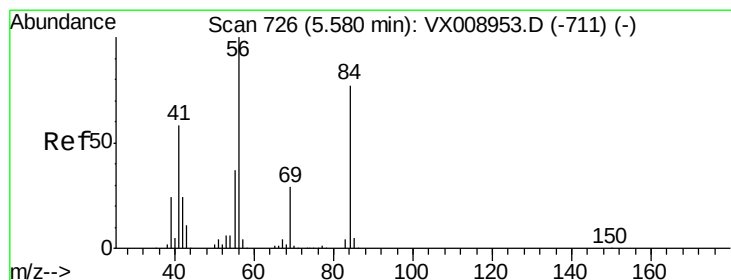
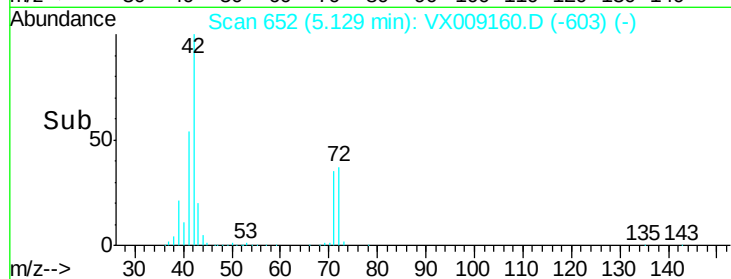
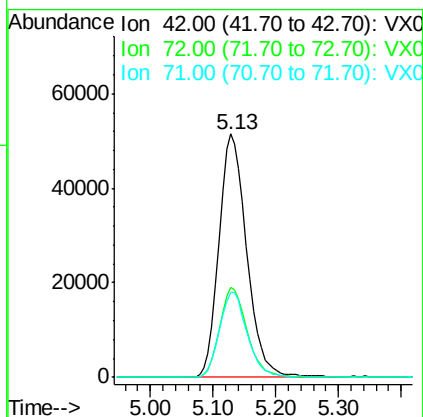
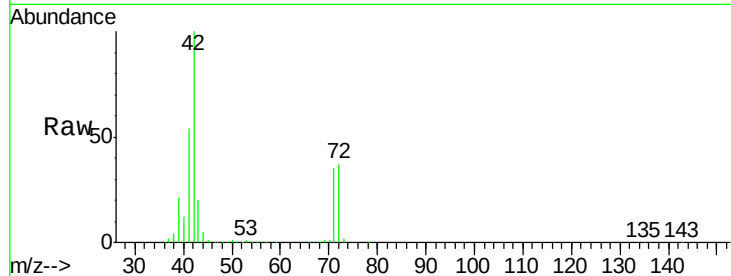




#29
Tetrahydrofuran
Concen: 91.092 ug/l
RT: 5.13 min Scan# 652
Delta R.T. -0.00 min
Lab File: VX009160.D
Acq: 25 Apr 2019 14:22

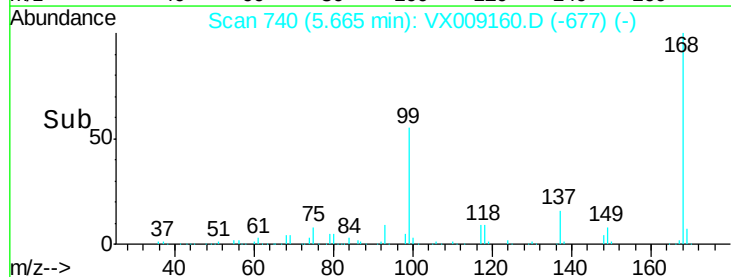
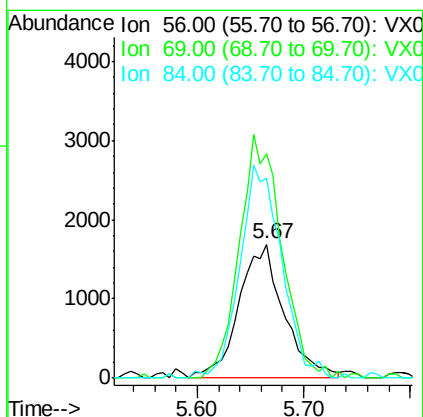
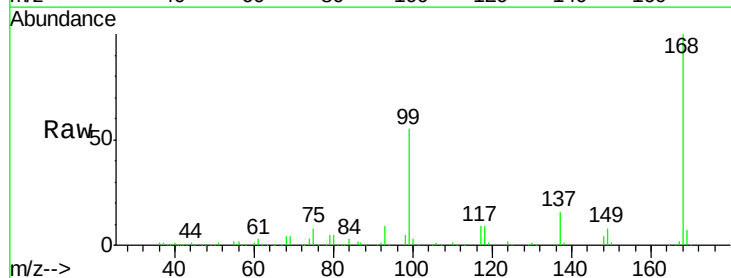
Instrument :
MSVOA_X
ClientSampleId :
S37-ER-2019-1

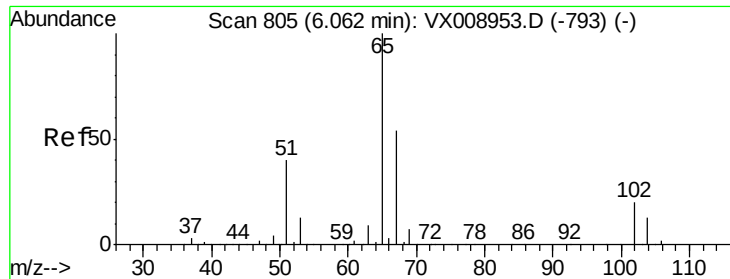
Tot Ion: 42 Resp: 157548
Ion Ratio Lower Upper
42 100
72 36.5 30.6 45.8
71 34.7 28.8 43.2



#31
Cyclohexane
Concen: 1.011 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX009160.D
Acq: 25 Apr 2019 14:22

Tgt Ion: 56 Resp: 5019
Ion Ratio Lower Upper
56 100
69 167.4 23.3 34.9#
84 149.5 61.7 92.5#

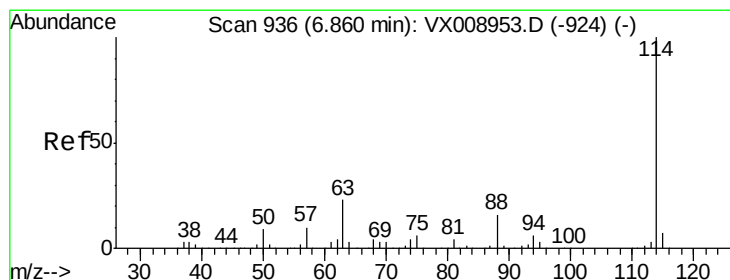
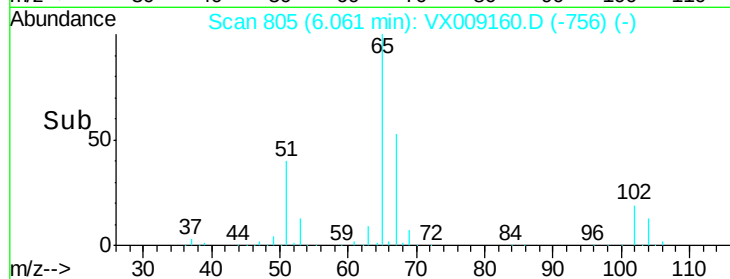
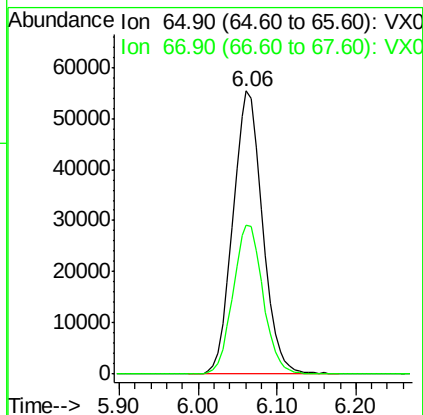
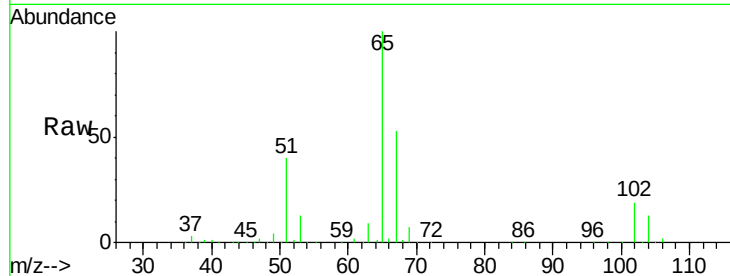




#33
 1,2-Dichloroethane-d4
 Concen: 46.425 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009160.D
 Acq: 25 Apr 2019 14:22

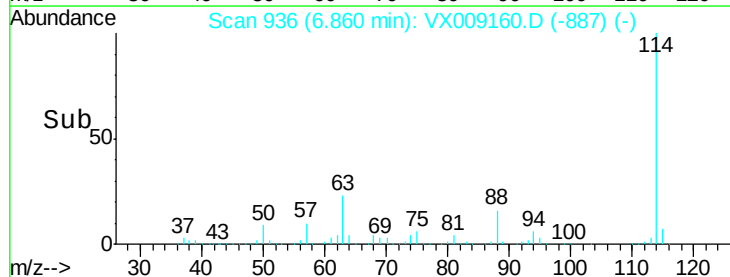
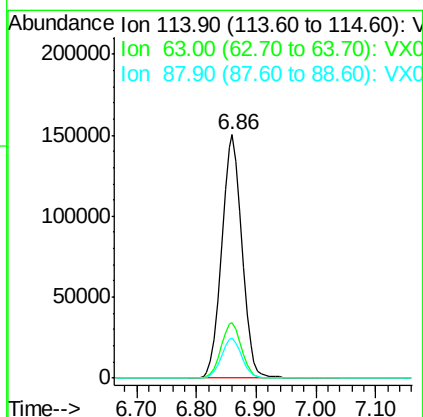
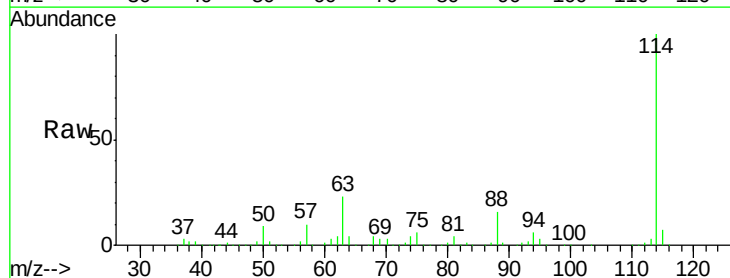
Instrument :
 MSVOA_X
 ClientSampleId :
 S37-ER-2019-1

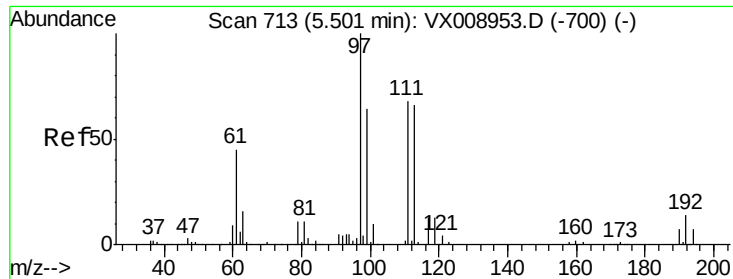
Tot Ion: 65 Resp: 144726
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009160.D
 Acq: 25 Apr 2019 14:22

Tgt Ion: 114 Resp: 354287
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.0
 88 16.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 46.898 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampleId :

S37-ER-2019-1

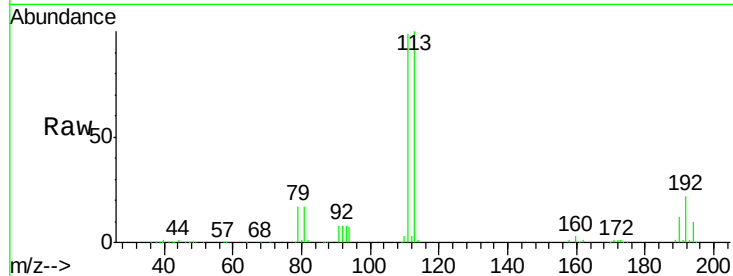
Tot Ion:113 Resp: 106633

Ion Ratio Lower Upper

113 100

111 101.5 82.9 124.3

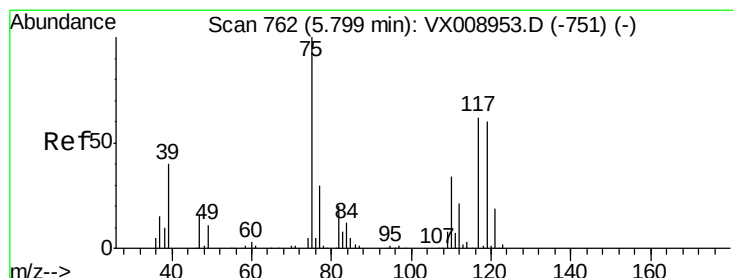
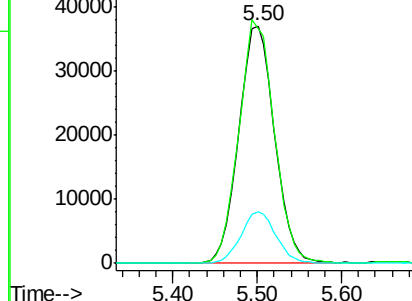
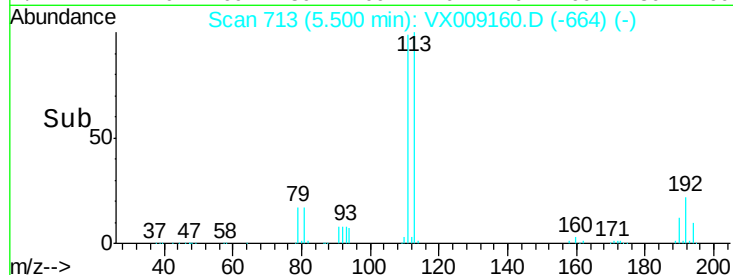
192 21.4 17.4 26.0



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: 4.661 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

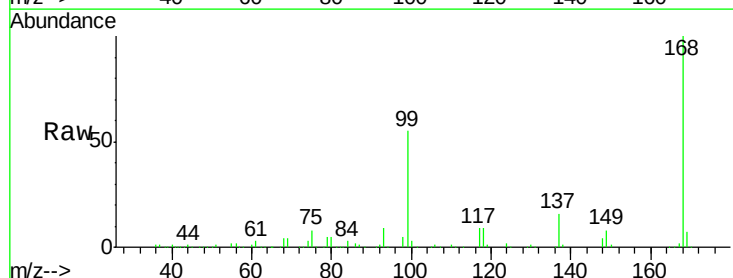
Tgt Ion: 75 Resp: 17078

Ion Ratio Lower Upper

75 100

110 9.2 16.9 50.7#

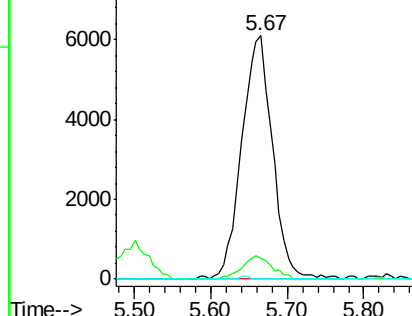
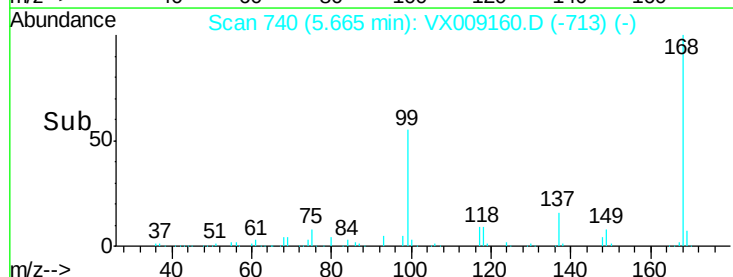
77 0.0 25.0 37.4#

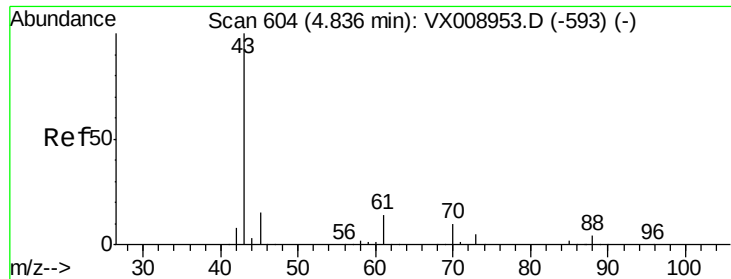


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.665 ug/l

RT: 4.69 min Scan# 580

Delta R.T. -0.15 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampleId :

S37-ER-2019-1

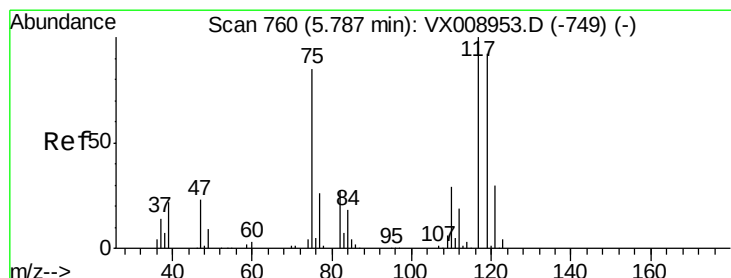
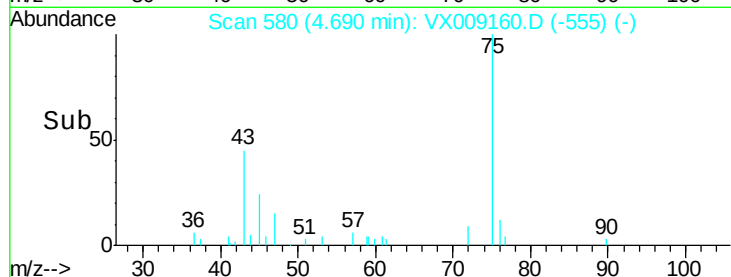
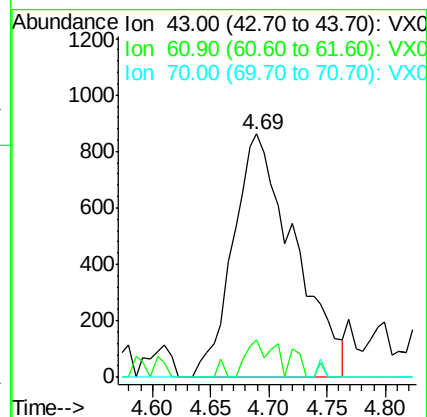
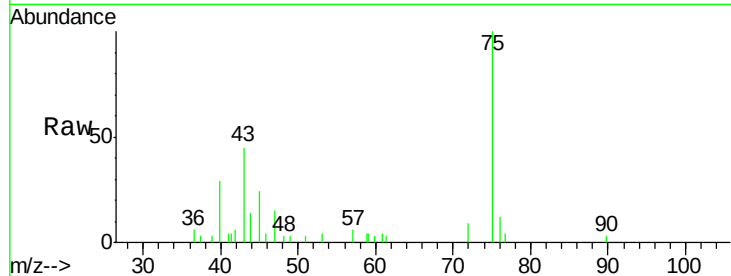
Tot Ion: 43 Resp: 3136

Ion Ratio Lower Upper

43 100

61 6.9 10.6 15.8#

70 0.0 7.7 11.5#



#38

Carbon Tetrachloride

Concen: 6.705 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

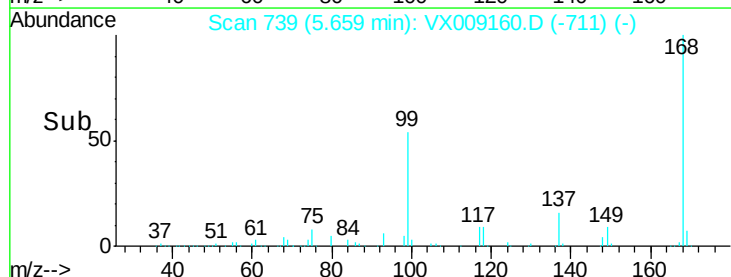
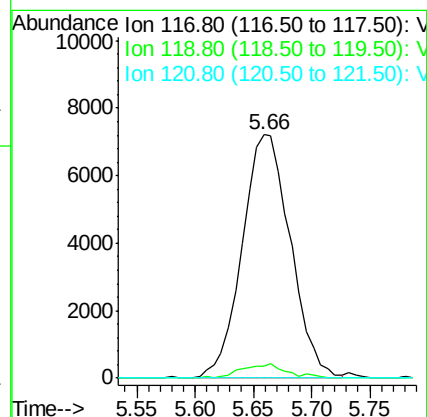
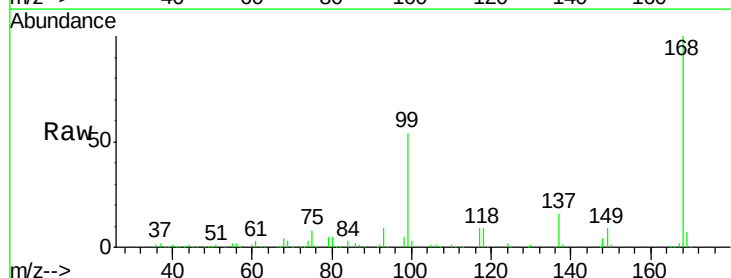
Tgt Ion: 117 Resp: 20827

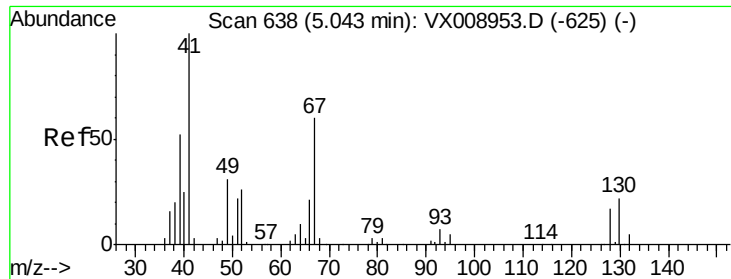
Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

121 0.0 23.6 35.4#





#41

Methacrylonitrile

Concen: 31.362 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.09 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampled :

S37-ER-2019-1

Tot Ion: 41 Resp: 84866

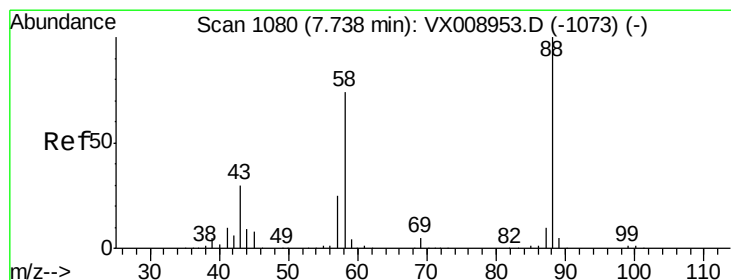
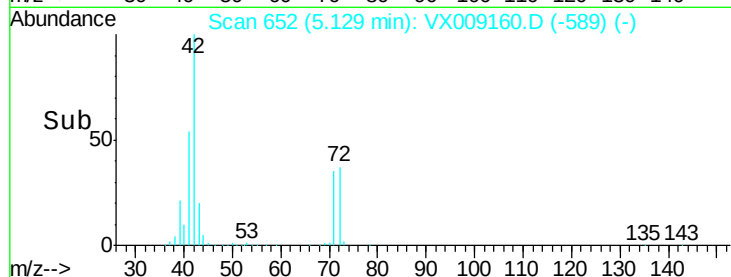
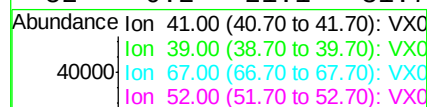
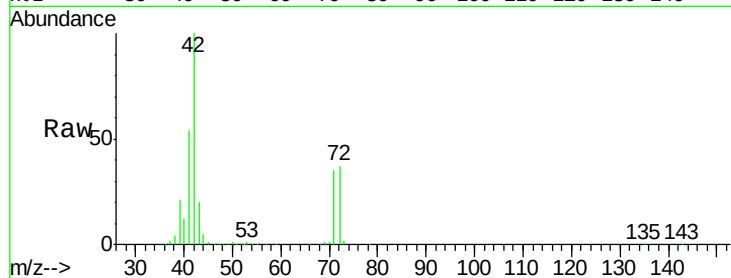
Ion Ratio Lower Upper

41 100

39 39.5 41.8 62.6#

67 0.0 50.2 75.4#

52 0.2 21.1 31.7#



#49

1,4-Dioxane

Concen: 0.270 ug/l

RT: 7.95 min Scan# 1115

Delta R.T. 0.21 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

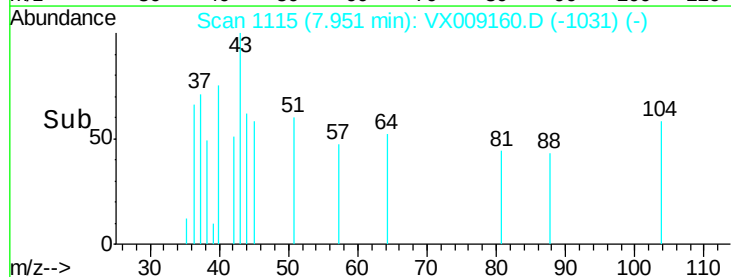
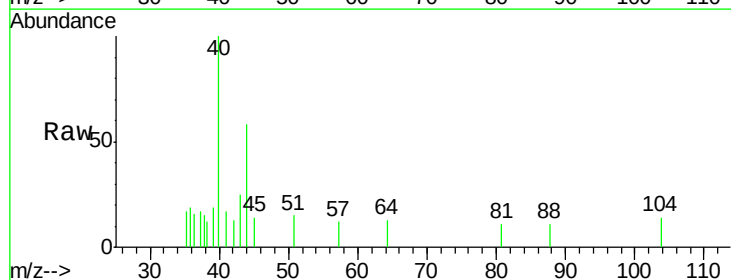
Tgt Ion: 88 Resp: 19

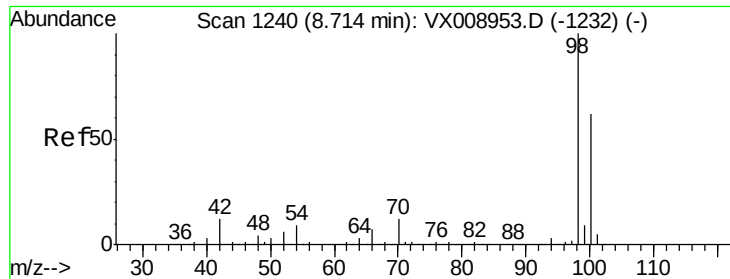
Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

58 147.4 62.6 93.8#

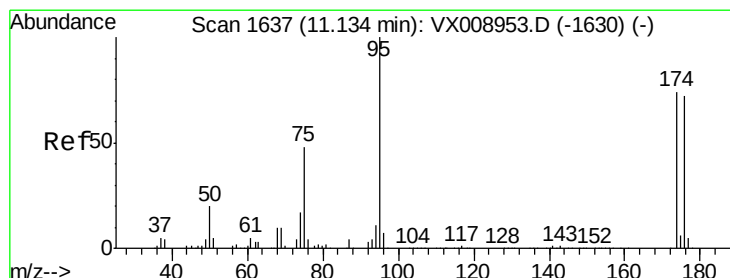
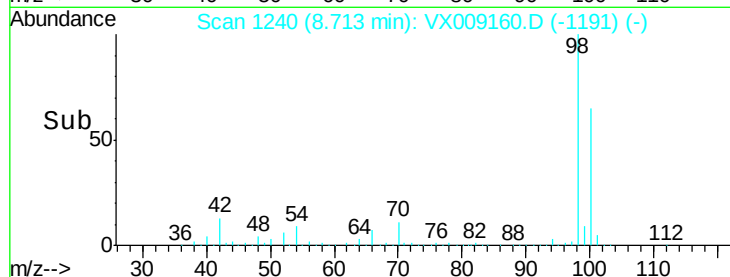
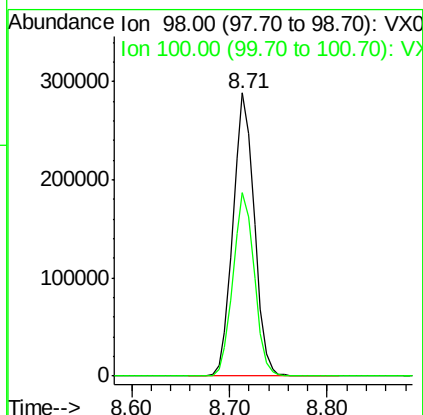
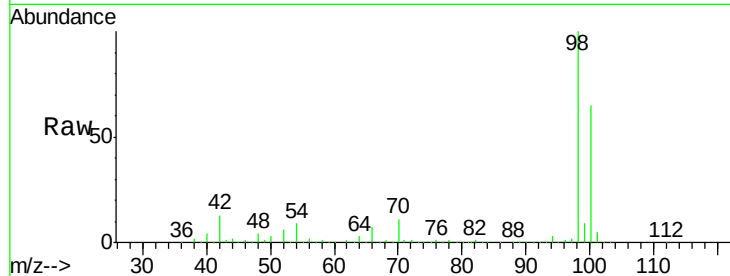




#50
Toluene-d8
Concen: 48.245 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009160.D
Acq: 25 Apr 2019 14:22

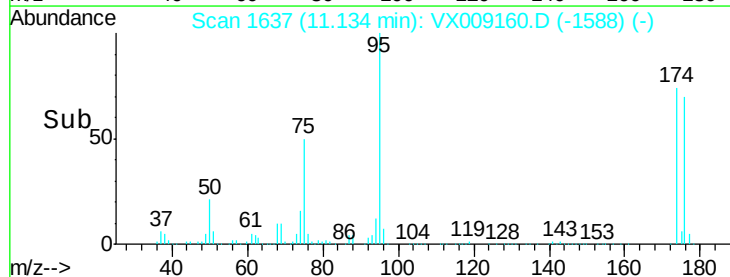
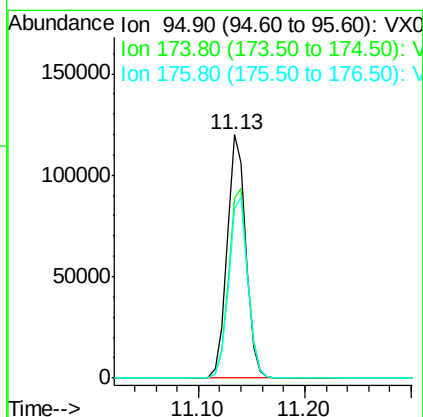
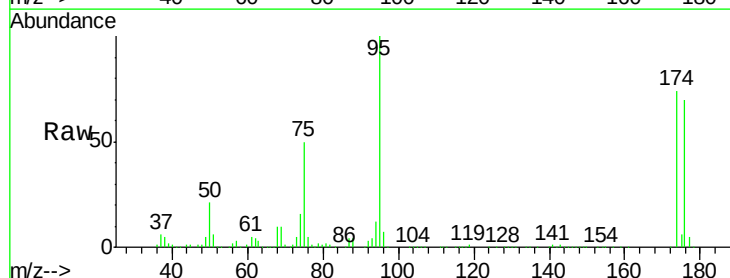
Instrument :
MSVOA_X
ClientSampleId :
S37-ER-2019-1

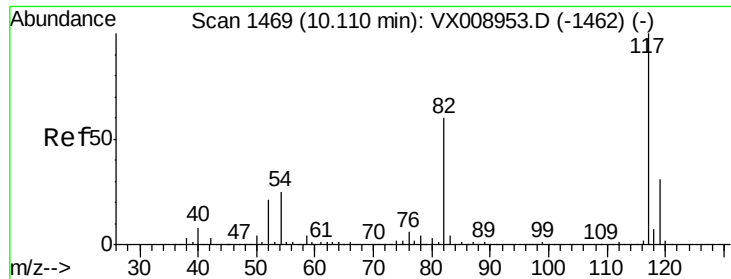
Tot Ion: 98 Resp: 437471
Ion Ratio Lower Upper
98 100
100 64.8 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 46.279 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009160.D
Acq: 25 Apr 2019 14:22

Tgt Ion: 95 Resp: 148136
Ion Ratio Lower Upper
95 100
174 79.8 0.0 159.6
176 75.6 0.0 154.8

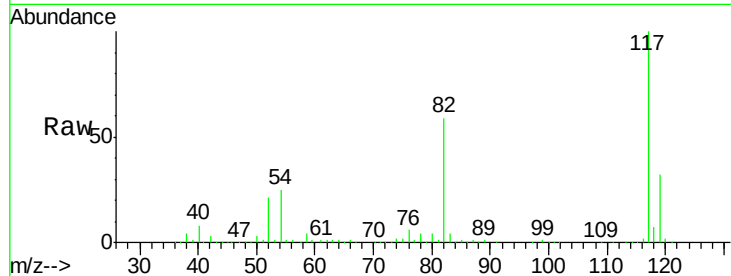




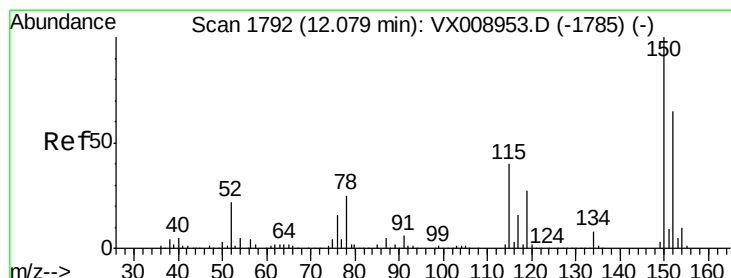
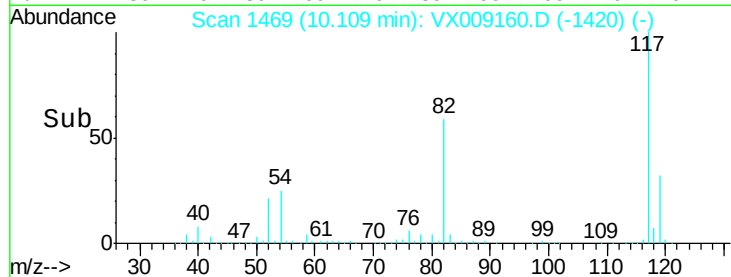
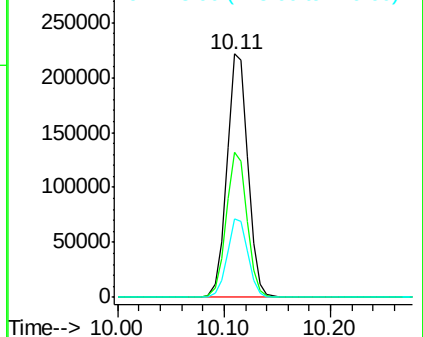
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009160.D
Acq: 25 Apr 2019 14:22

Instrument :
MSVOA_X
ClientSampled :
S37-ER-2019-1

Tot Ion:117 Resp: 306261
Ion Ratio Lower Upper
117 100
82 59.4 48.2 72.4
119 32.1 25.0 37.6

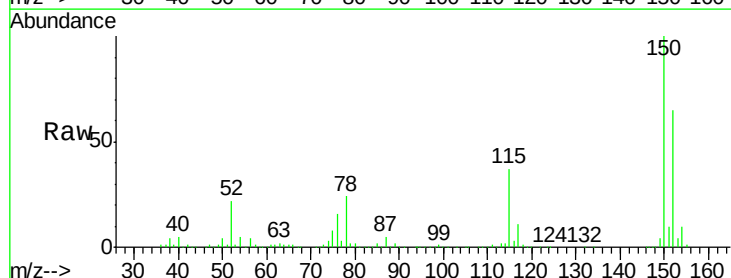


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

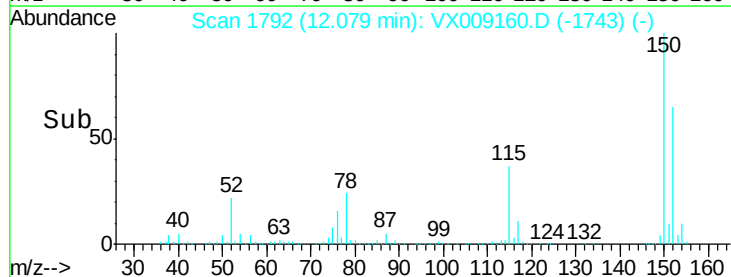
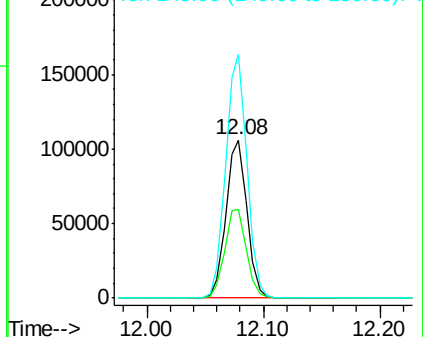


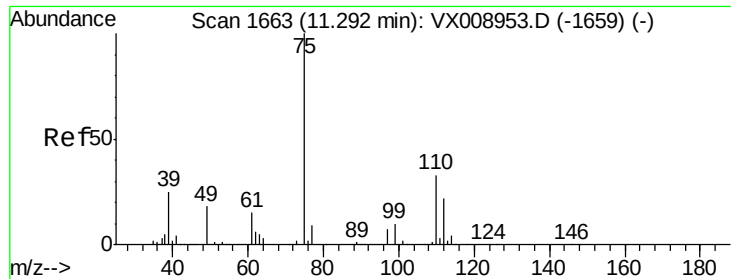
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009160.D
Acq: 25 Apr 2019 14:22

Tgt Ion:152 Resp: 132334
Ion Ratio Lower Upper
152 100
115 58.0 41.4 124.2
150 155.8 0.0 349.8



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: 22.971 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

Instrument :

MSVOA_X

ClientSampleId :

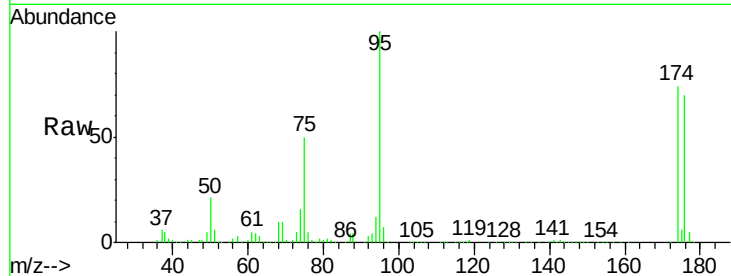
S37-ER-2019-1

Tot Ion: 75 Resp: 74227

Ion Ratio Lower Upper

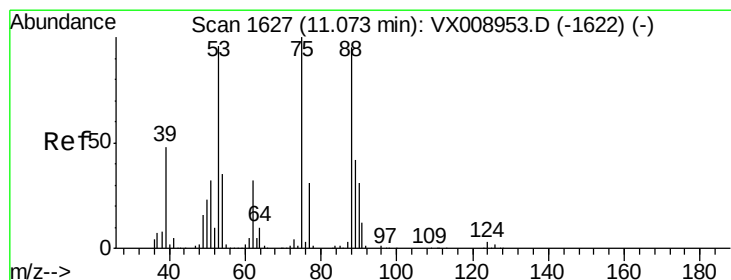
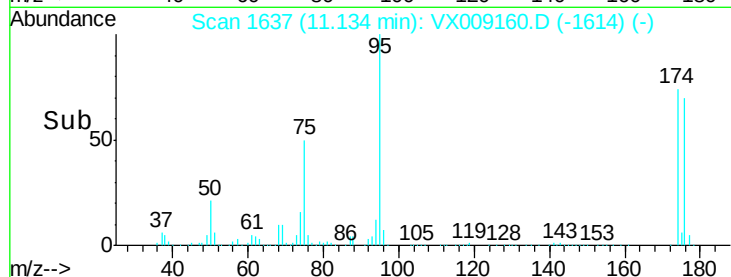
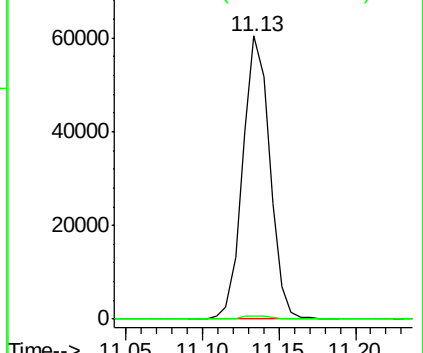
75 100

77 1.2 22.7 68.0#



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: 58.973 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009160.D

Acq: 25 Apr 2019 14:22

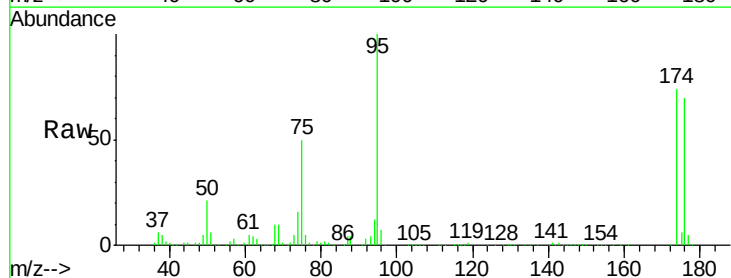
Tgt Ion: 75 Resp: 74227

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#



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

