

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080719\
 Data File : VX011360.D
 Acq On : 07 Aug 2019 13:55
 Operator : JC/SP
 Sample : K4192-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPLE-BARREL-BC-WEST

Quant Time: Aug 08 07:03:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	196971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	287284	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	264073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118038	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	102388	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
35) Dibromofluoromethane	5.49	113	86915	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	
50) Toluene-d8	8.71	98	342660	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
62) 4-Bromofluorobenzene	11.13	95	113955	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	

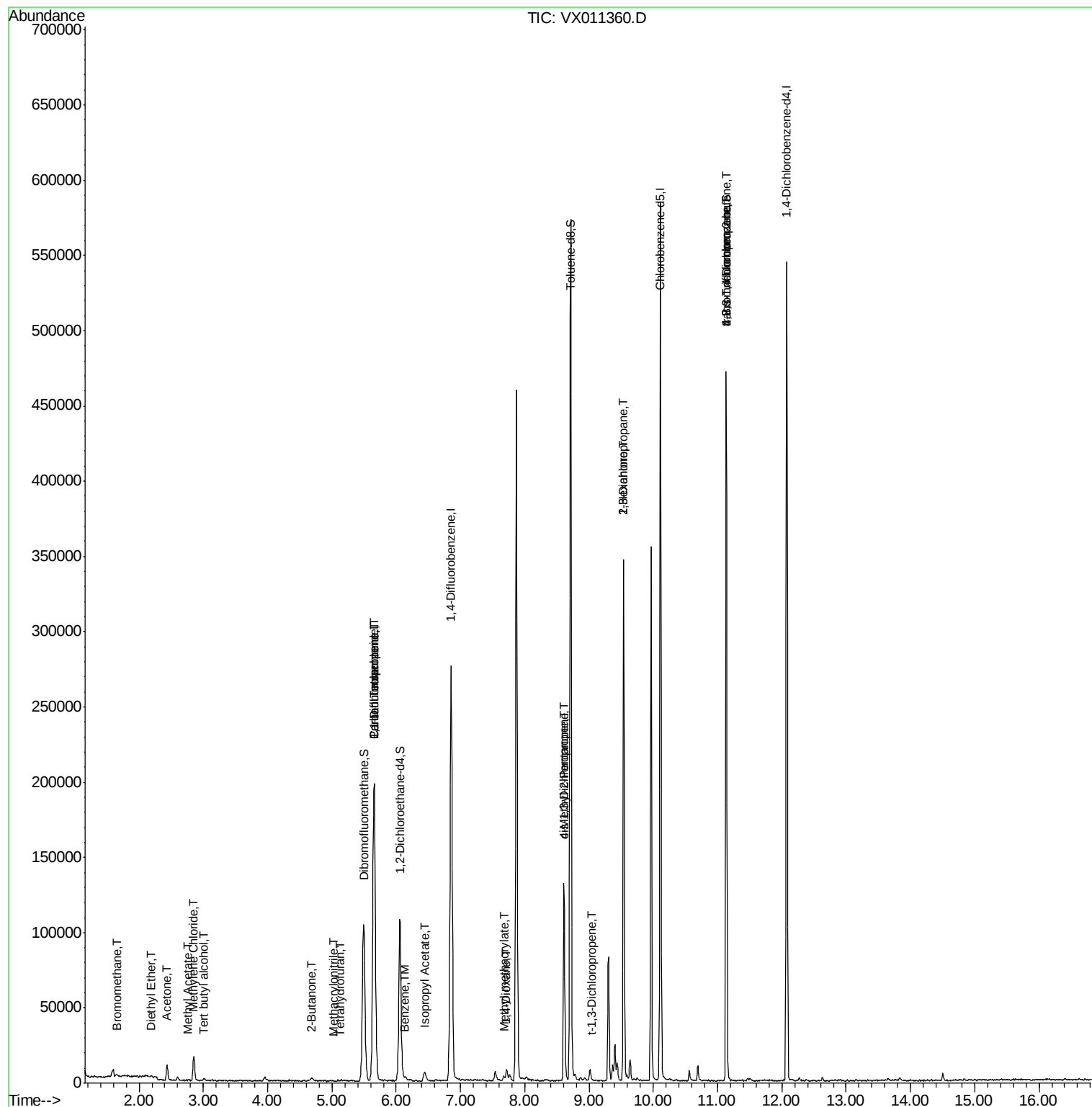
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	561	0.419	ug/l	95
6) Chloroethane	1.70	64	151	Below Cal	#	70
8) Diethyl Ether	2.18	74	629	0.527	ug/l	83
11) Tert butyl alcohol	3.01	59	984	2.510	ug/l #	72
13) Acrolein	2.31	56	45	Below Cal	#	44
16) Acetone	2.43	43	10929	11.575	ug/l	98
18) Methyl Acetate	2.76	43	1213	0.562	ug/l	96
20) Methylene Chloride	2.85	84	7926	3.833	ug/l	88
25) 2-Butanone	4.69	43	1195	0.890	ug/l	94
29) Tetrahydrofuran	5.13	42	275	0.334	ug/l #	34
36) 1,1-Dichloropropene	5.66	75	13399	5.342	ug/l #	44
38) Carbon Tetrachloride	5.66	117	19064	7.555	ug/l #	14
40) Benzene	6.13	78	2517	0.336	ug/l #	90
41) Methacrylonitrile	5.02	41	390	0.284	ug/l #	41
43) Isopropyl Acetate	6.44	43	8065	2.005	ug/l	94
48) Methyl methacrylate	7.68	41	4400	2.324	ug/l #	10
49) 1,4-Dioxane	7.72	88	20	0.364	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	42395	16.331	ug/l #	49
53) t-1,3-Dichloropropene	9.05	75	61	2.859	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	21033	7.515	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	3066	0.953	ug/l #	42
59) 2-Hexanone	9.54	43	39179	19.485	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	56799	26.423	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	56799	68.695	ug/l #	10

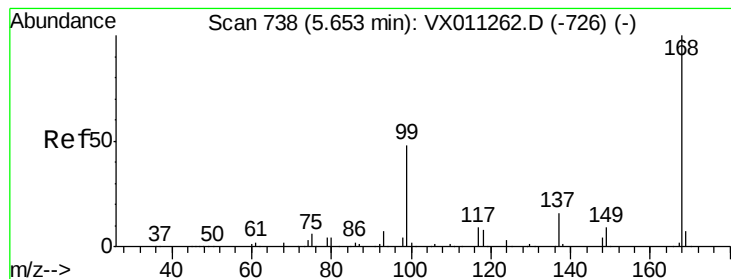
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 08 07:03:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

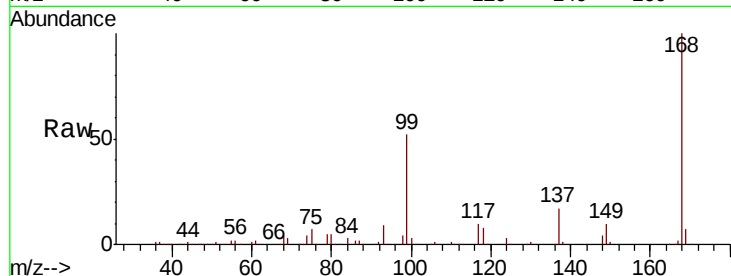
TRIPLE-BARREL-BC-WEST

Tgt Ion:168 Resp: 196971

Ion Ratio Lower Upper

168 100

99 52.0 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

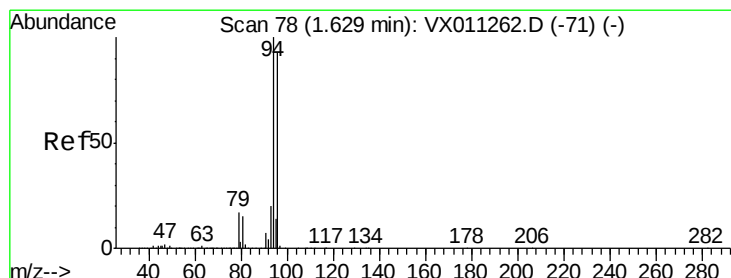
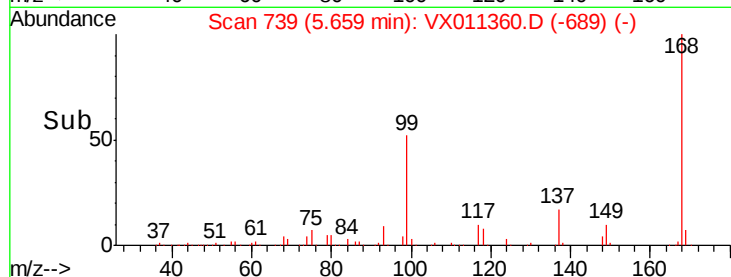
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.419 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011360.D

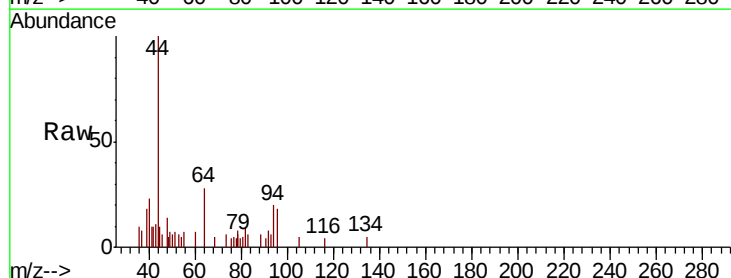
Acq: 07 Aug 2019 13:55

Tgt Ion: 94 Resp: 561

Ion Ratio Lower Upper

94 100

96 88.1 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

250

200

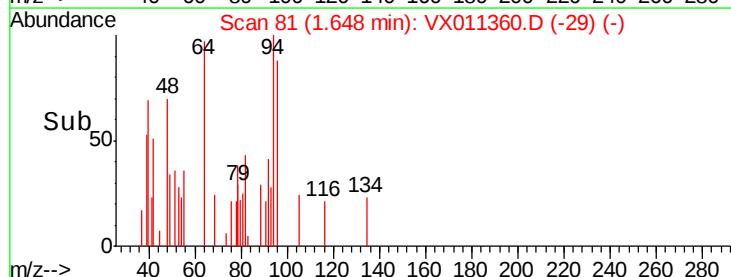
150

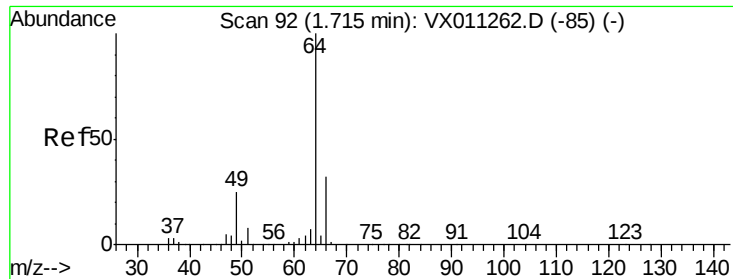
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

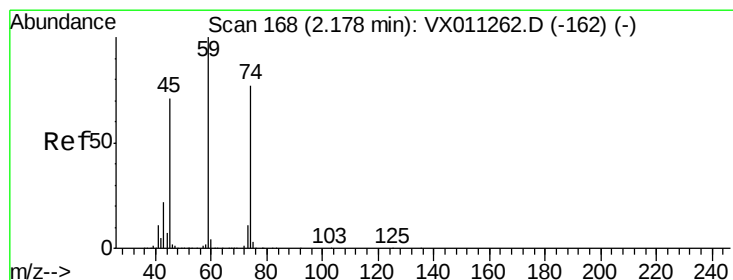
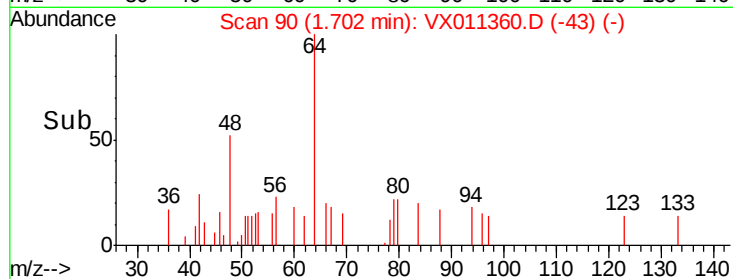
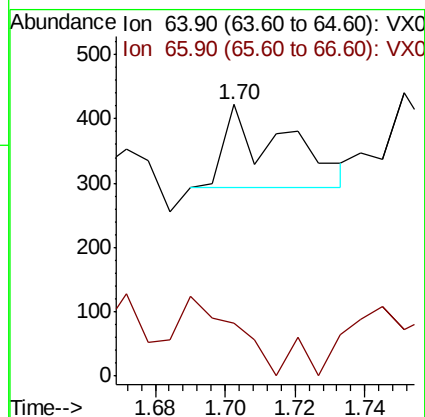
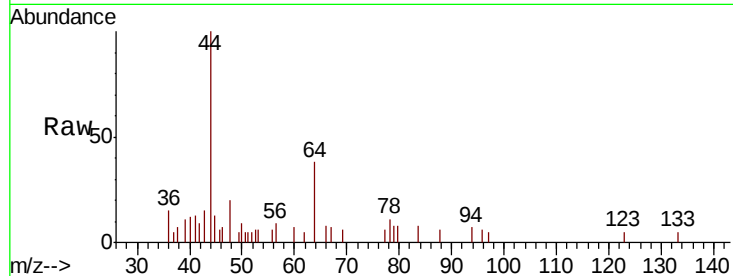
TRIPLE-BARREL-BC-WEST

Tgt Ion: 64 Resp: 151

Ion Ratio Lower Upper

64 100

66 14.8 25.1 37.7#



#8

Diethyl Ether

Concen: 0.527 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011360.D

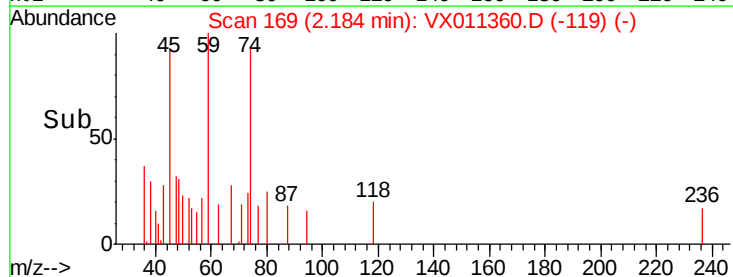
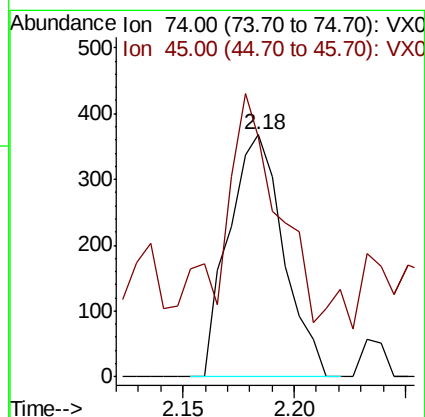
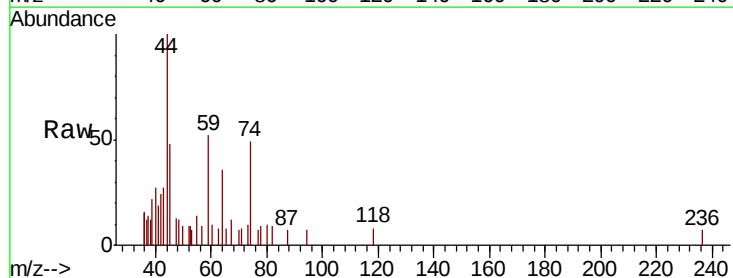
Acq: 07 Aug 2019 13:55

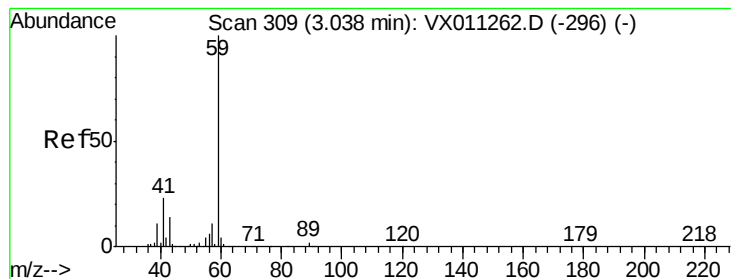
Tgt Ion: 74 Resp: 629

Ion Ratio Lower Upper

74 100

45 75.8 46.1 138.3



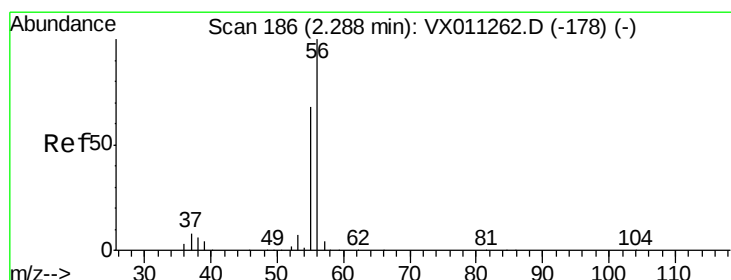
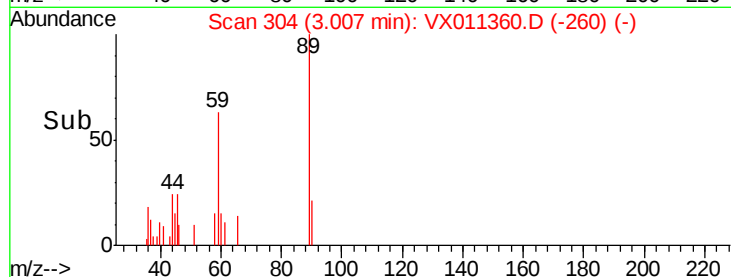
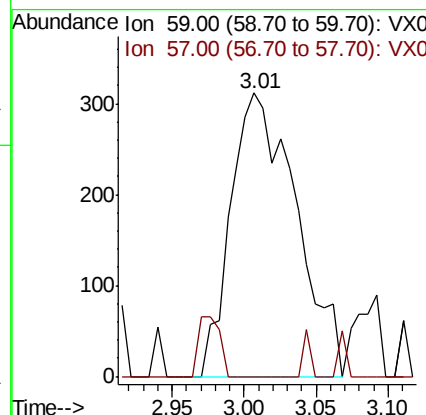
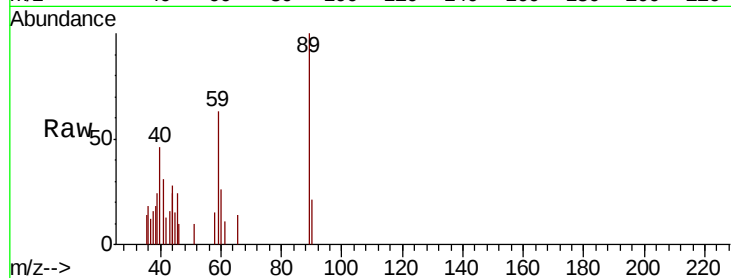


#11

Tert butyl alcohol
 Concen: 2.510 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.03 min
 Lab File: VX011360.D
 Acq: 07 Aug 2019 13:55

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPLE-BARREL-BC-WEST

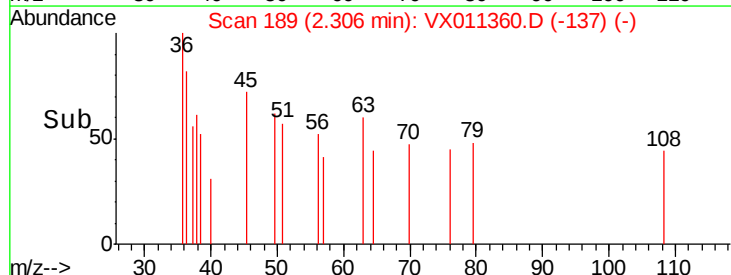
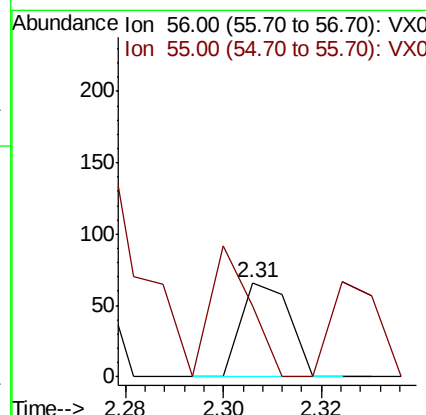
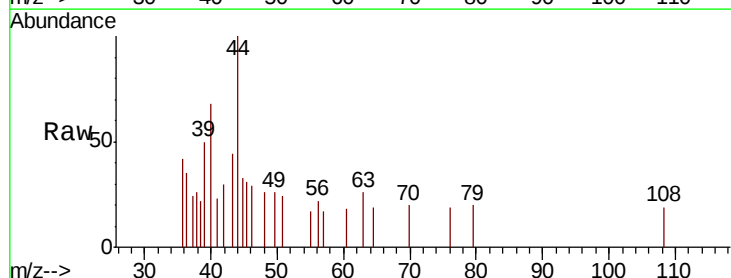
Tgt Ion: 59 Resp: 984
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

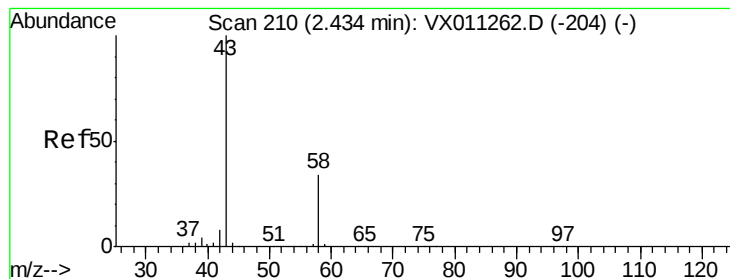


#13

Acrolein
 Concen: Below Cal
 RT: 2.31 min Scan# 189
 Delta R.T. 0.02 min
 Lab File: VX011360.D
 Acq: 07 Aug 2019 13:55

Tgt Ion: 56 Resp: 45
 Ion Ratio Lower Upper
 56 100
 55 115.6 56.0 84.0#





#16

Acetone

Concen: 11.575 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

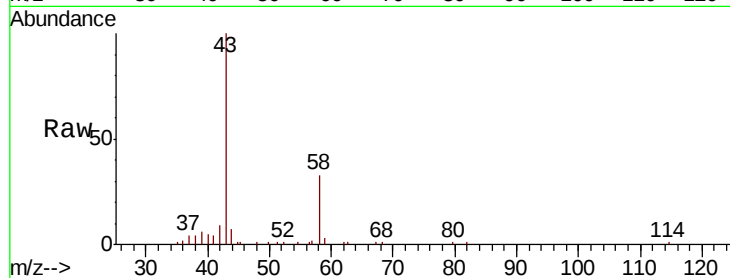
TRIPLE-BARREL-BC-WEST

Tgt Ion: 43 Resp: 10929

Ion Ratio Lower Upper

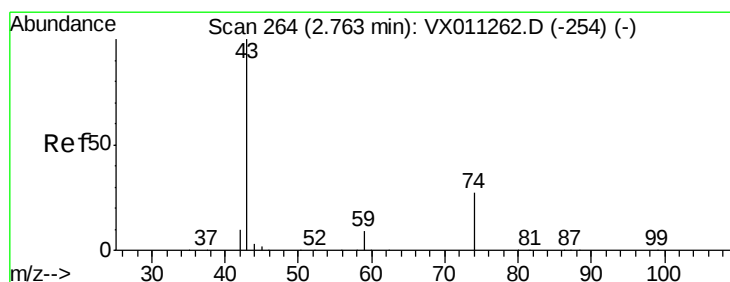
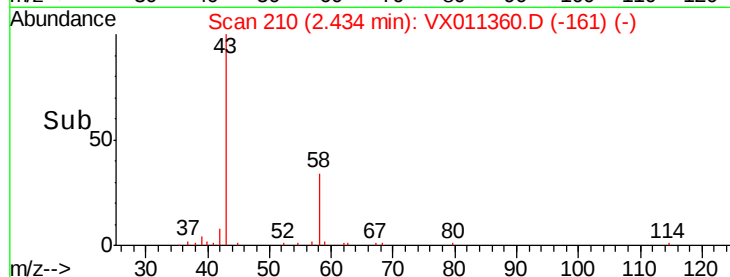
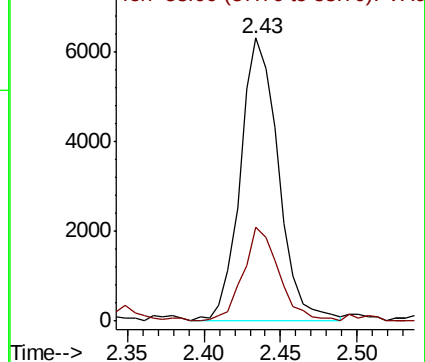
43 100

58 33.0 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.562 ug/l

RT: 2.76 min Scan# 264

Delta R.T. -0.00 min

Lab File: VX011360.D

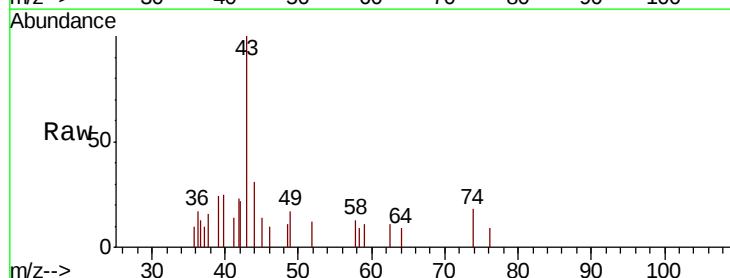
Acq: 07 Aug 2019 13:55

Tgt Ion: 43 Resp: 1213

Ion Ratio Lower Upper

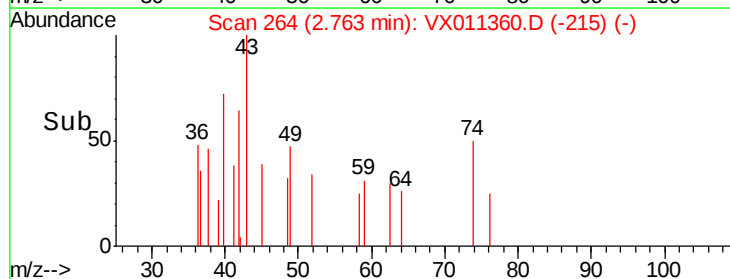
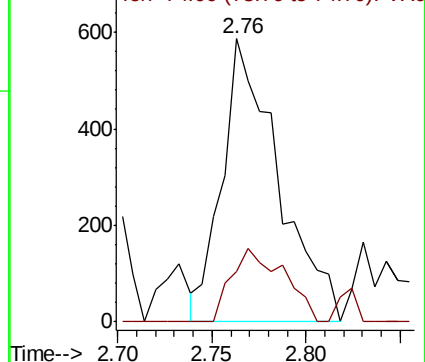
43 100

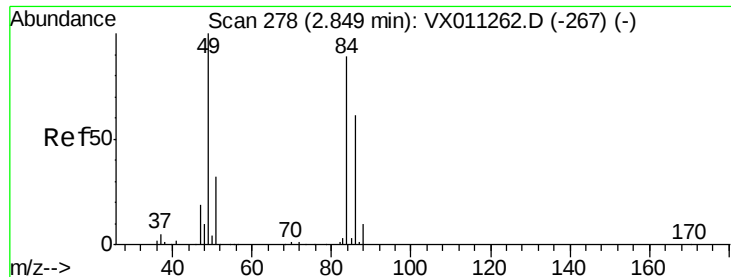
74 24.2 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 3.833 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.01 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

TRIPLE-BARREL-BC-WEST

Tgt Ion: 84 Resp: 7926

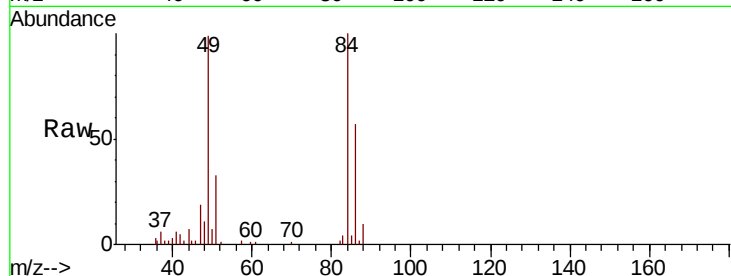
Ion Ratio Lower Upper

84 100

49 98.1 89.3 133.9

51 33.0 28.3 42.5

86 57.2 54.5 81.7

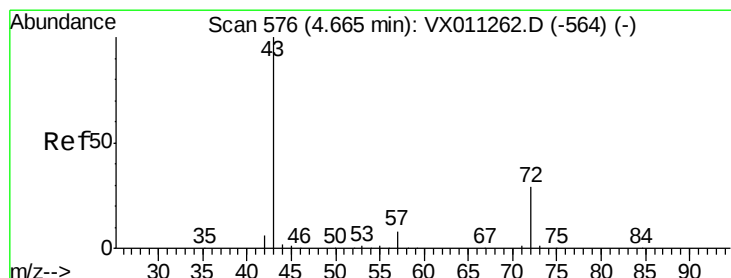
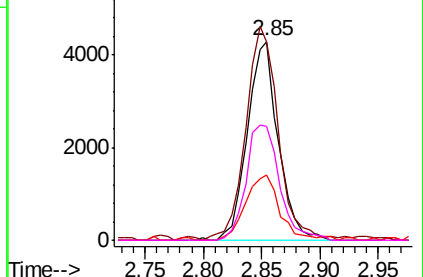
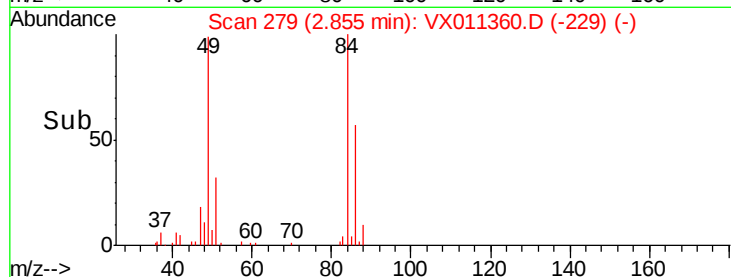


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 0.890 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX011360.D

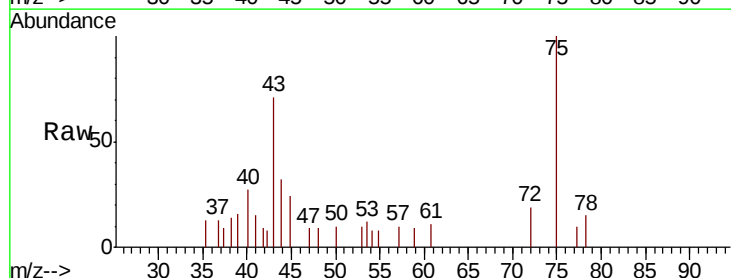
Acq: 07 Aug 2019 13:55

Tgt Ion: 43 Resp: 1195

Ion Ratio Lower Upper

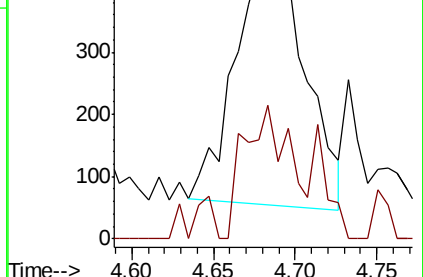
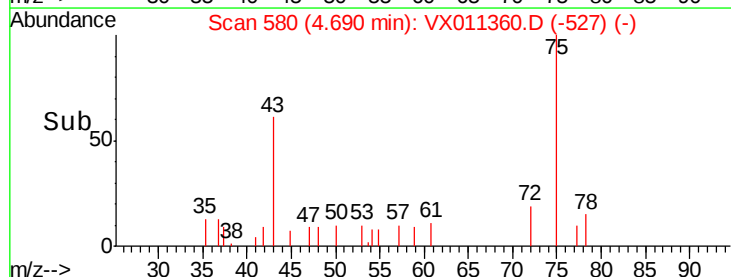
43 100

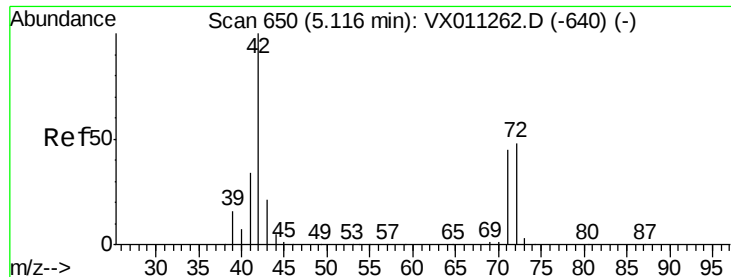
72 32.1 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.334 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.01 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

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TRIPLE-BARREL-BC-WEST

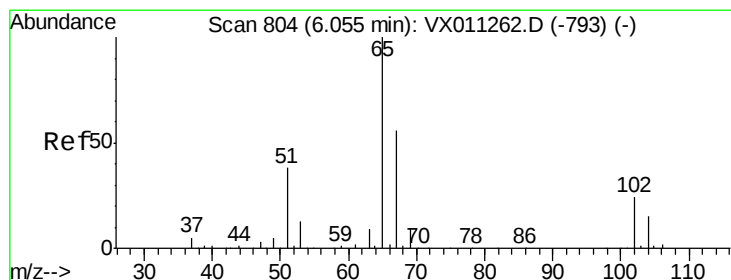
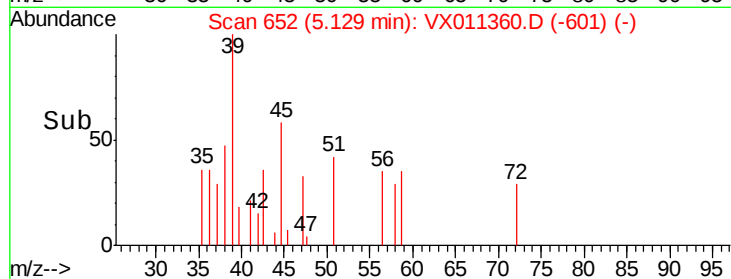
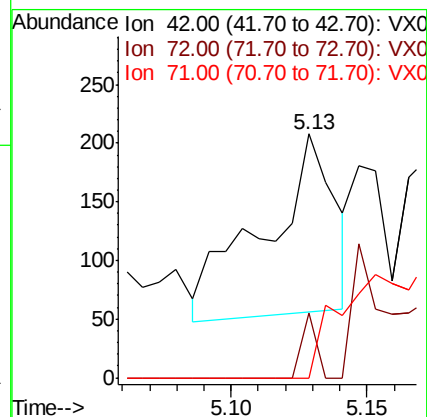
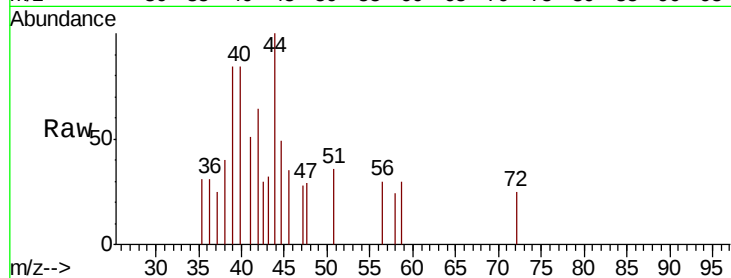
Tgt Ion: 42 Resp: 275

Ion Ratio Lower Upper

42 100

72 7.3 39.9 59.9#

71 0.0 36.9 55.3#



#33

1,2-Dichloroethane-d4

Concen: 51.617 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011360.D

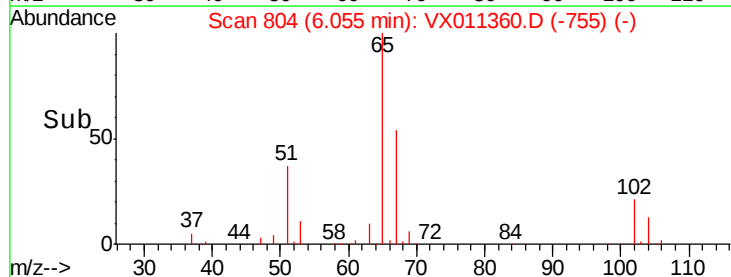
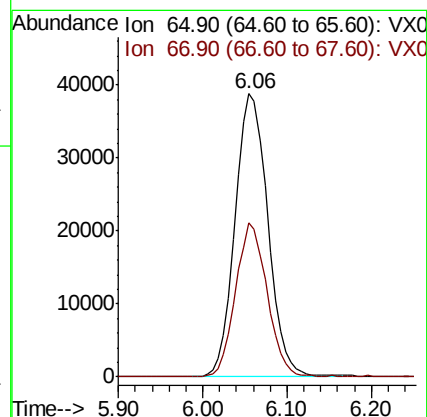
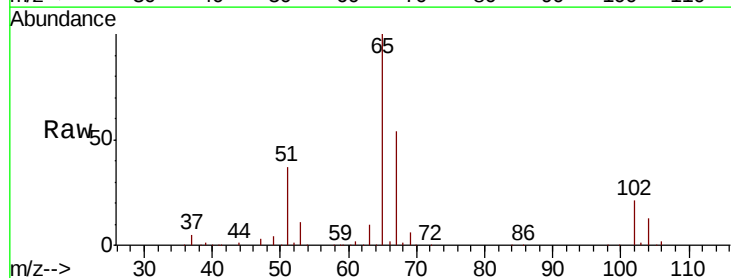
Acq: 07 Aug 2019 13:55

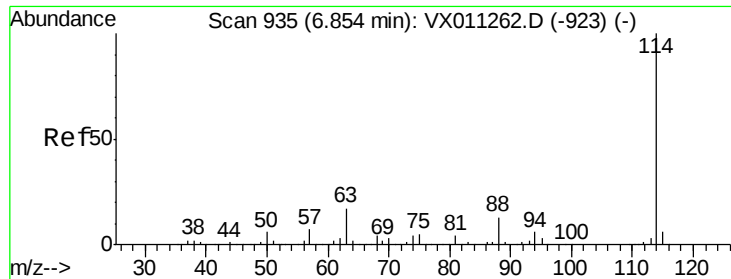
Tgt Ion: 65 Resp: 102388

Ion Ratio Lower Upper

65 100

67 52.1 0.0 110.6

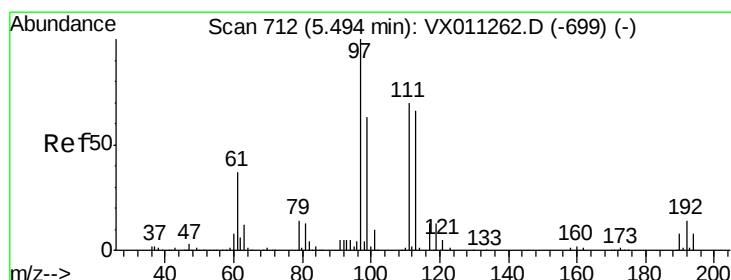
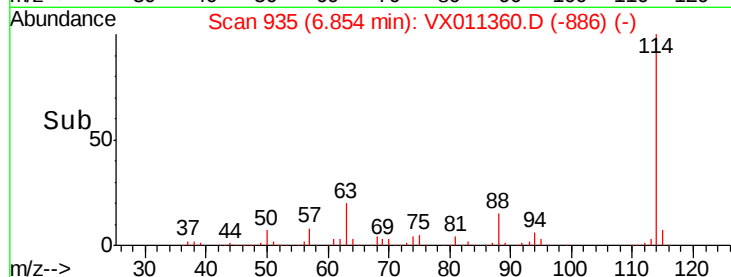
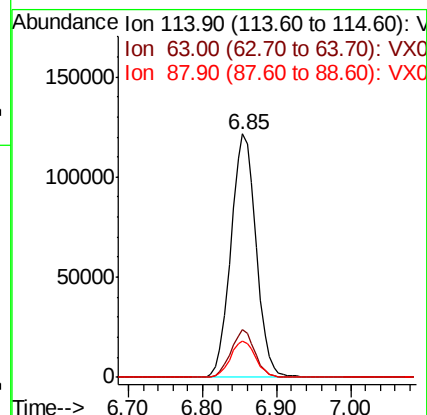
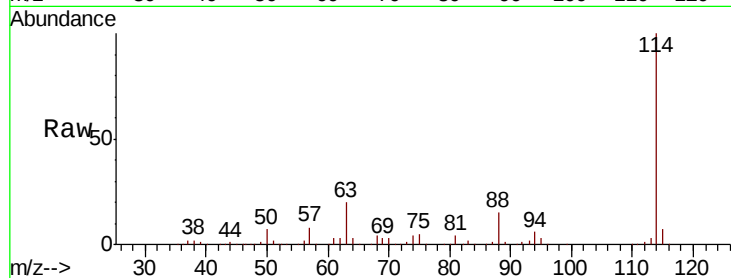




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011360.D
 Acq: 07 Aug 2019 13:55

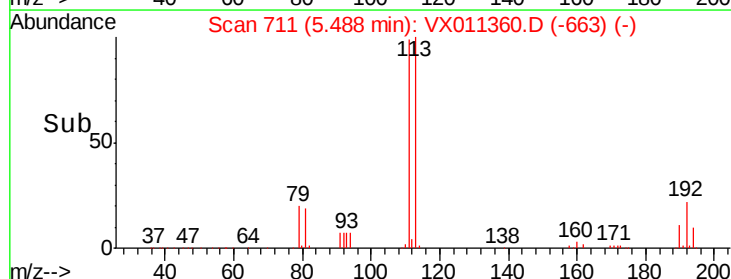
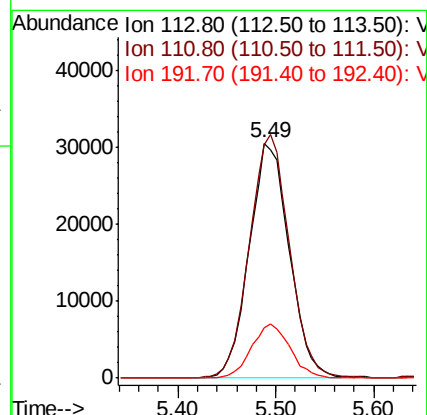
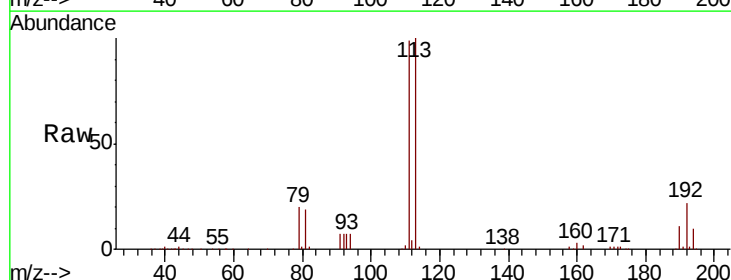
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPLE-BARREL-BC-WEST

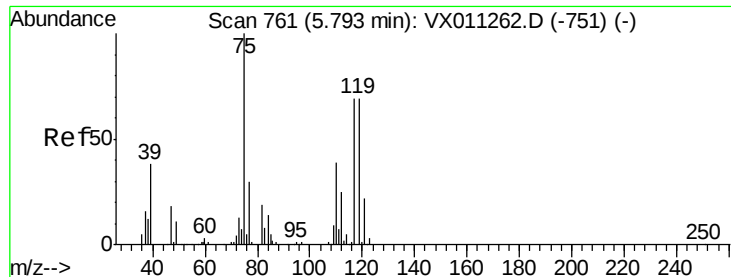
Tgt Ion:114 Resp: 287284
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 34.0
 88 14.9 0.0 26.4



#35
 Dibromofluoromethane
 Concen: 46.340 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011360.D
 Acq: 07 Aug 2019 13:55

Tgt Ion:113 Resp: 86915
 Ion Ratio Lower Upper
 113 100
 111 103.6 81.9 122.9
 192 22.3 17.8 26.8





#36

1,1-Dichloropropene

Concen: 5.342 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

TRIPLE-BARREL-BC-WEST

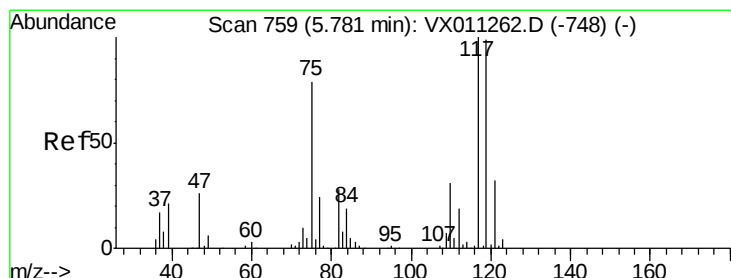
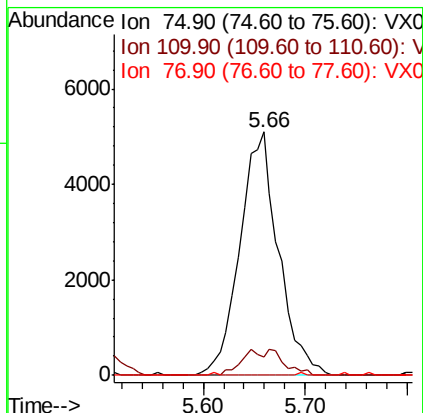
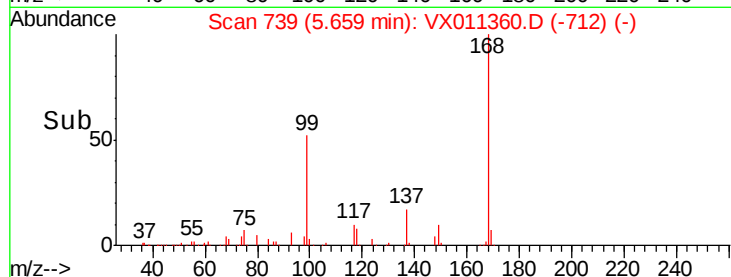
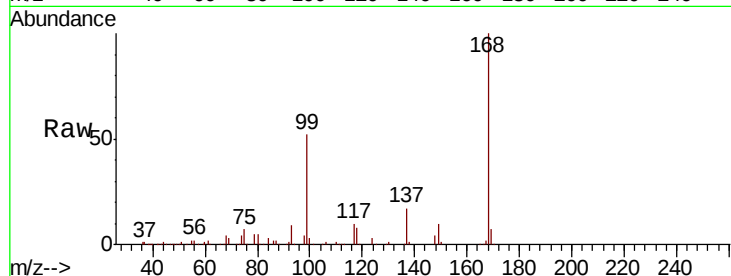
Tgt Ion: 75 Resp: 13399

Ion Ratio Lower Upper

75 100

110 6.0 20.0 59.9#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.555 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

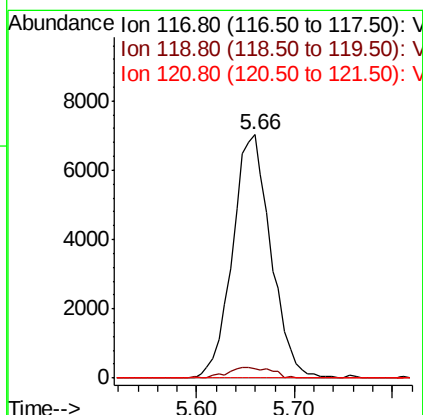
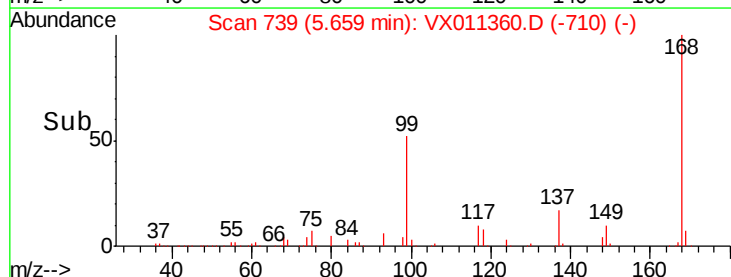
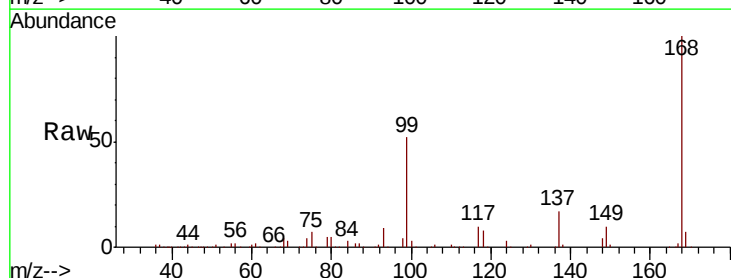
Tgt Ion: 117 Resp: 19064

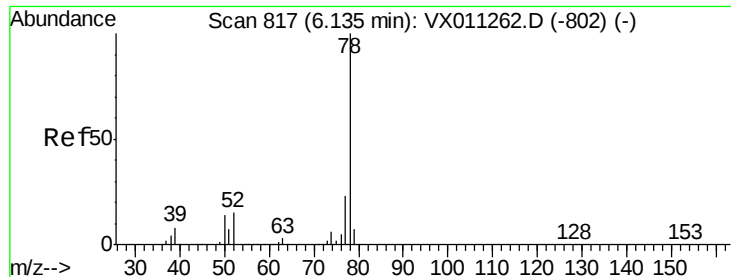
Ion Ratio Lower Upper

117 100

119 3.7 79.0 118.4#

121 0.0 25.9 38.9#

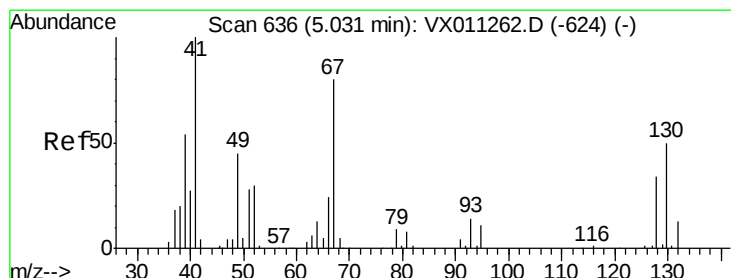
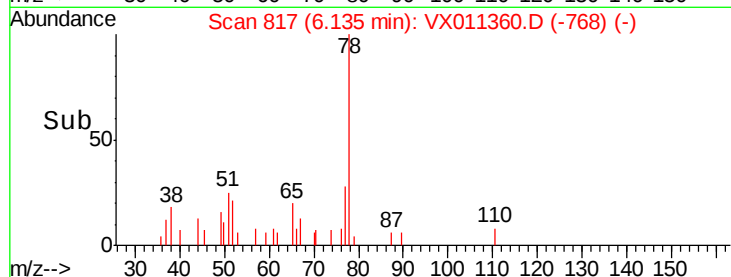
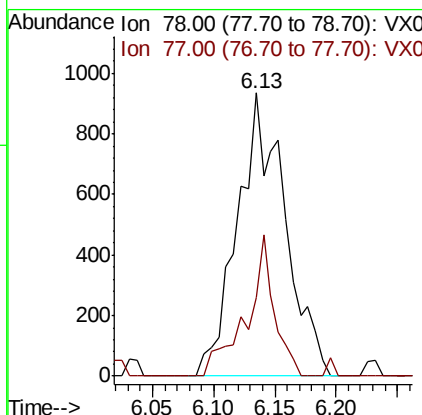
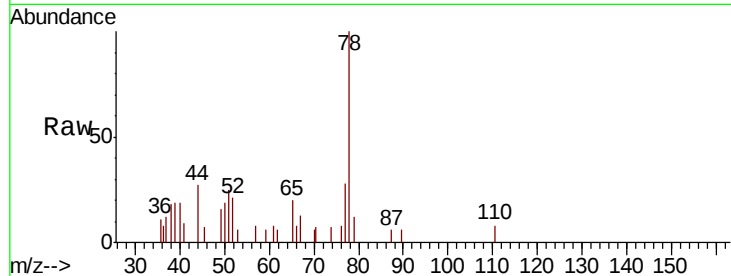




#40
Benzene
Concen: 0.336 ug/l
RT: 6.13 min Scan# 817
Delta R.T. -0.00 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

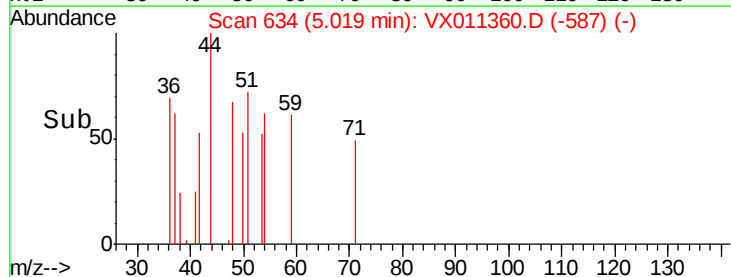
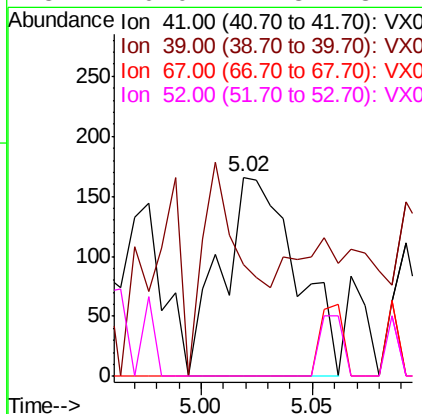
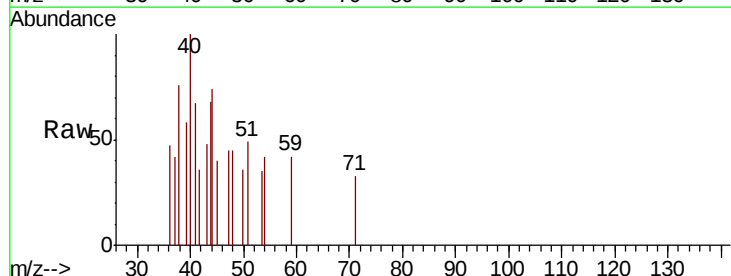
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-WEST

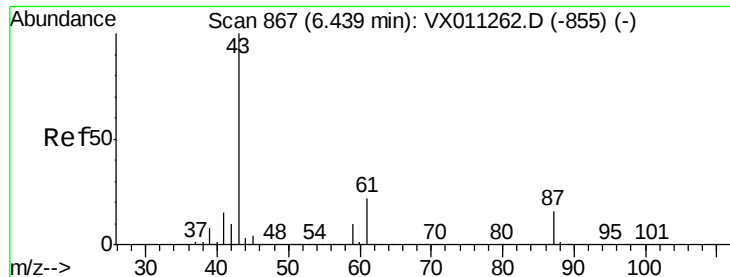
Tgt Ion: 78 Resp: 2517
Ion Ratio Lower Upper
78 100
77 27.6 18.2 27.2#



#41
Methacrylonitrile
Concen: 0.284 ug/l
RT: 5.02 min Scan# 634
Delta R.T. -0.01 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

Tgt Ion: 41 Resp: 390
Ion Ratio Lower Upper
41 100
39 61.8 43.0 64.6
67 0.0 65.1 97.7#
52 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 2.005 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

TRIPLE-BARREL-BC-WEST

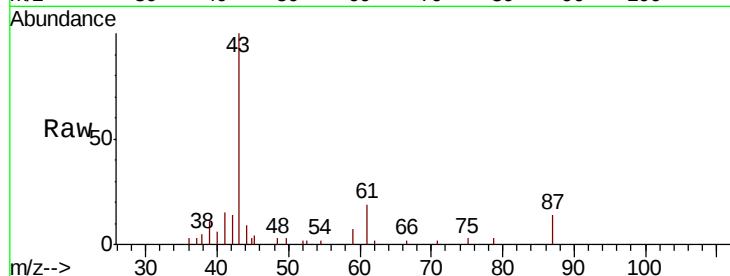
Tgt Ion: 43 Resp: 8065

Ion Ratio Lower Upper

43 100

61 24.7 16.5 24.7

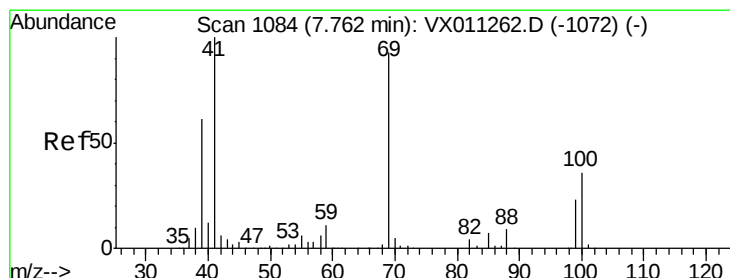
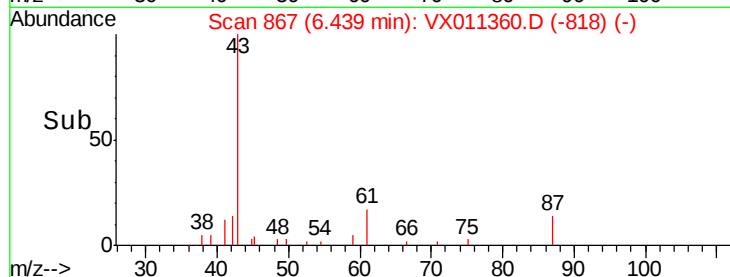
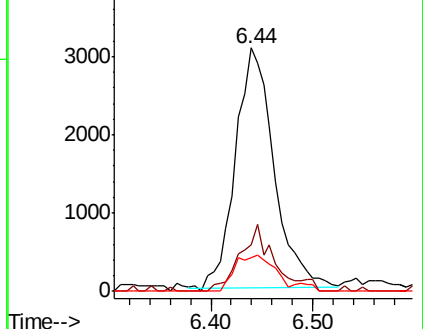
87 15.6 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.324 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

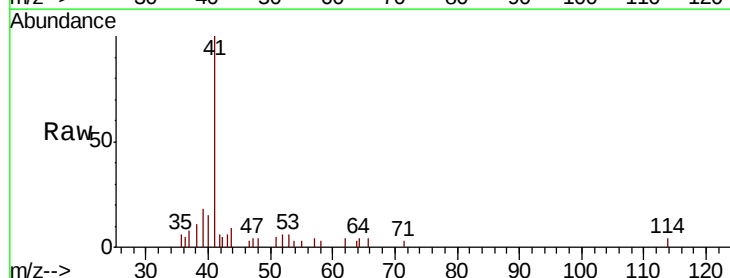
Tgt Ion: 41 Resp: 4400

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

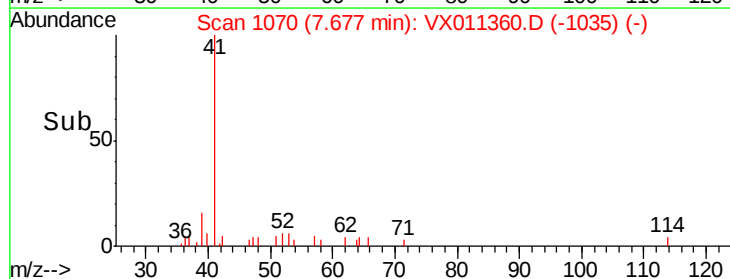
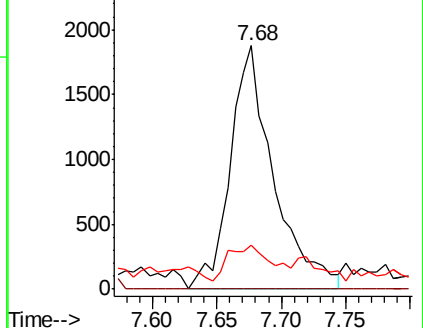
39 0.0 48.6 72.8#

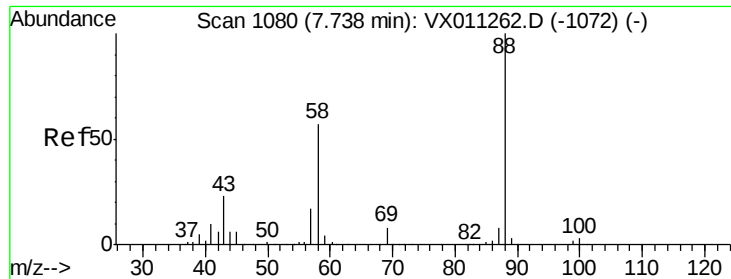


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

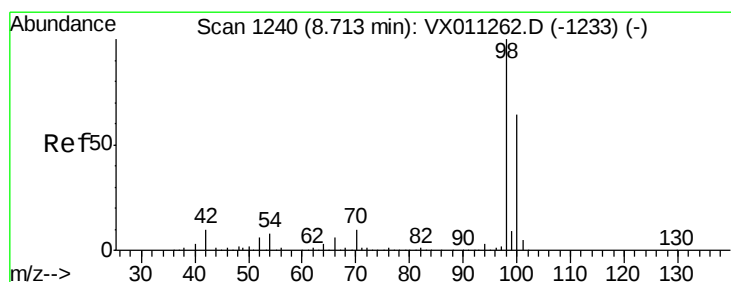
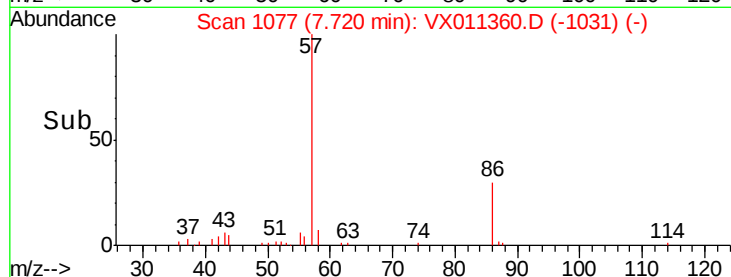
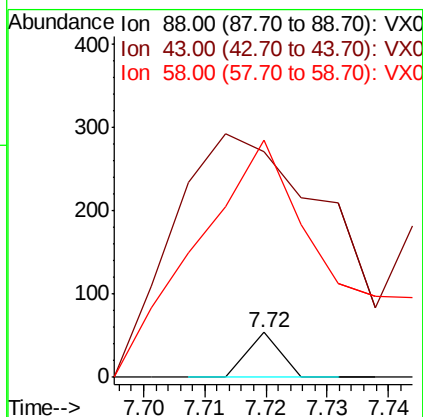
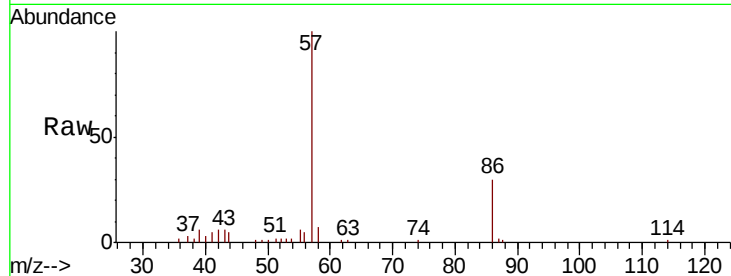




#49
1,4-Dioxane
Concen: 0.364 ug/l
RT: 7.72 min Scan# 1077
Delta R.T. -0.02 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

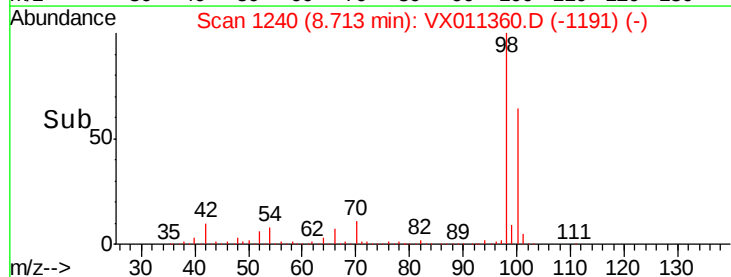
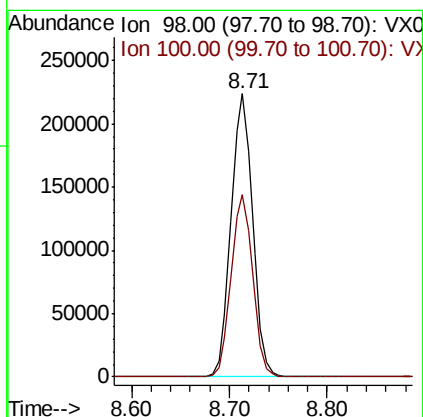
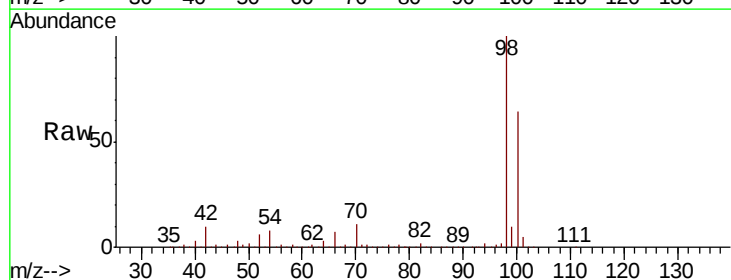
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-WEST

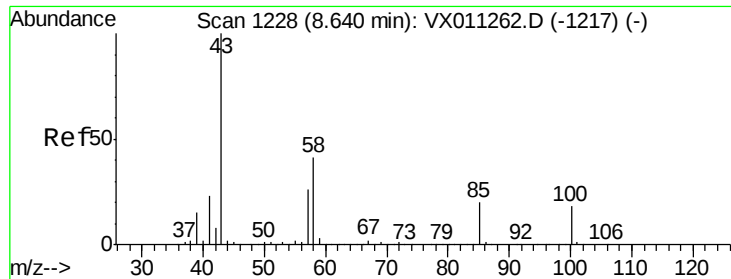
Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 2825.0 47.8 71.8#



#50
Toluene-d8
Concen: 48.399 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

Tgt Ion: 98 Resp: 342660
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 16.331 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

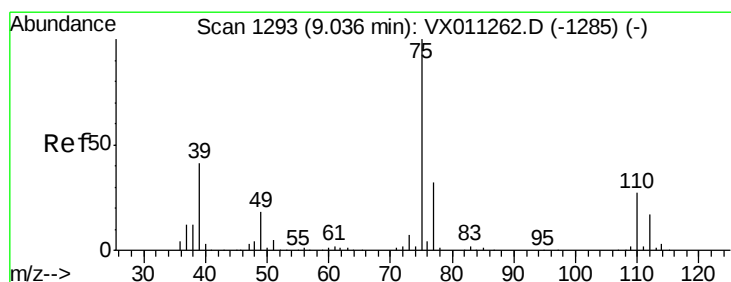
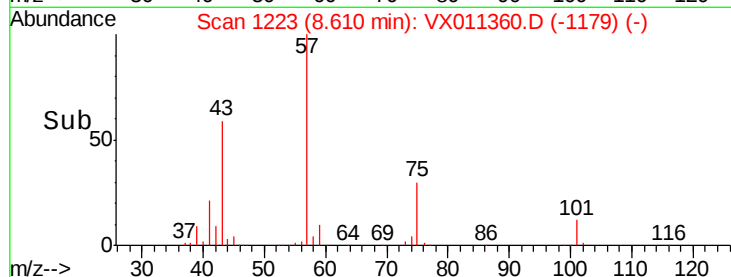
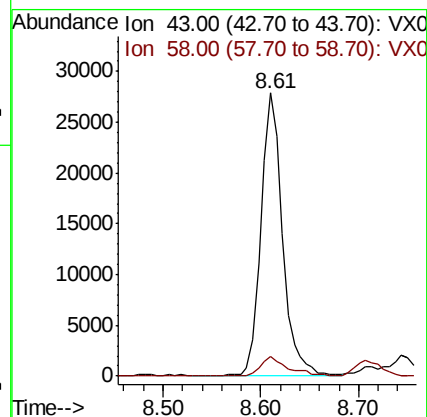
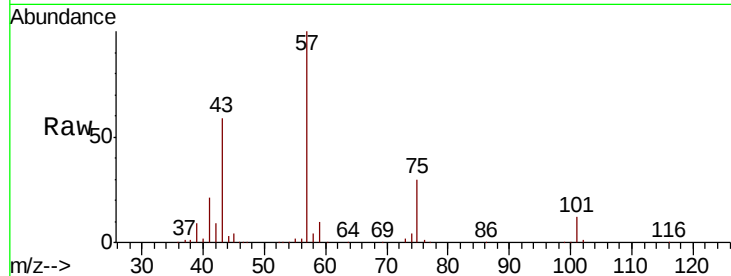
TRIPLE-BARREL-BC-WEST

Tgt Ion: 43 Resp: 42395

Ion Ratio Lower Upper

43 100

58 8.7 32.3 48.5#



#53

t-1,3-Dichloropropene

Concen: 2.859 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.02 min

Lab File: VX011360.D

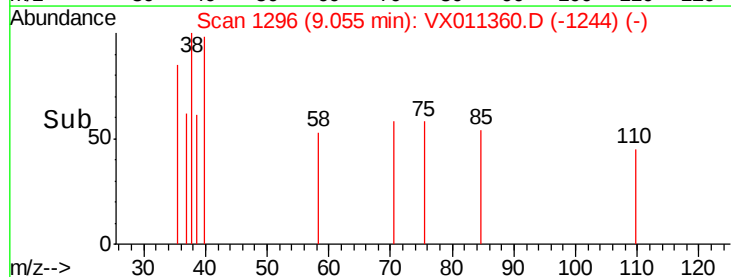
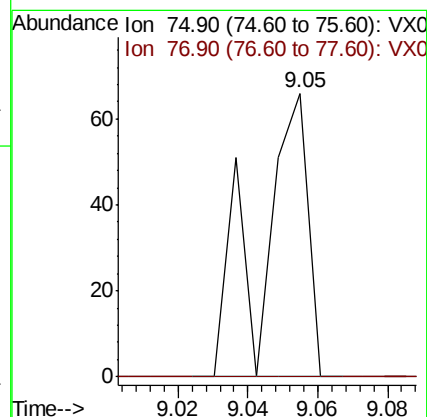
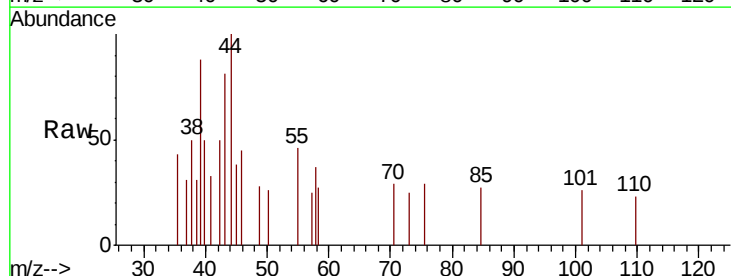
Acq: 07 Aug 2019 13:55

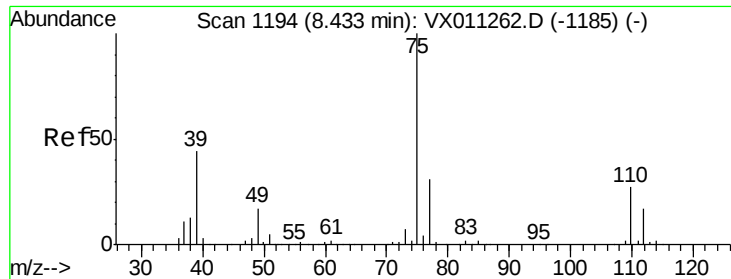
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



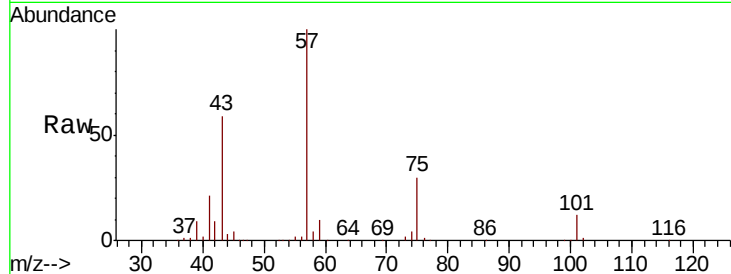


#54

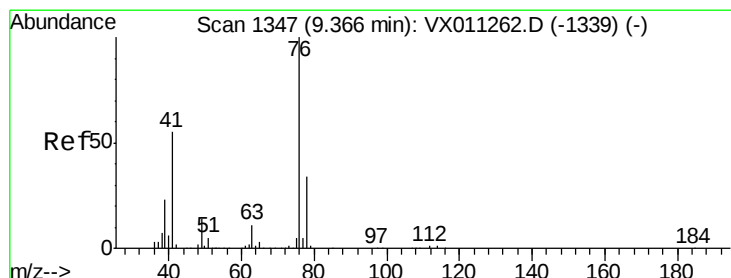
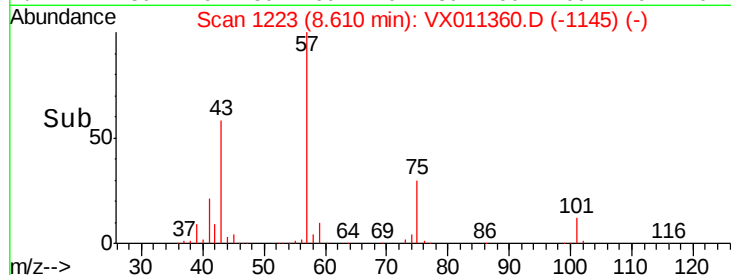
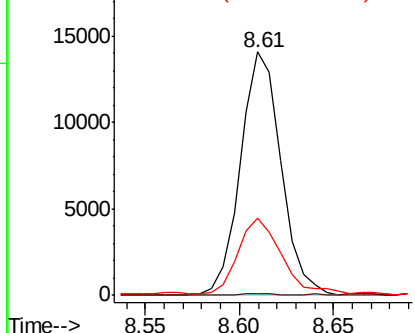
cis-1,3-Dichloropropene
 Concen: 7.515 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011360.D
 Acq: 07 Aug 2019 13:55

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPLE-BARREL-BC-WEST

Tgt Ion: 75 Resp: 21033
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.0 37.6#
 39 30.8 35.3 52.9#



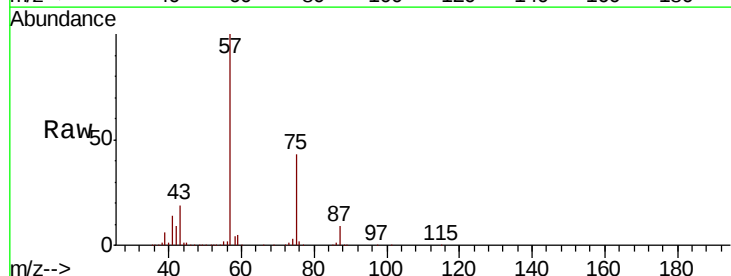
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



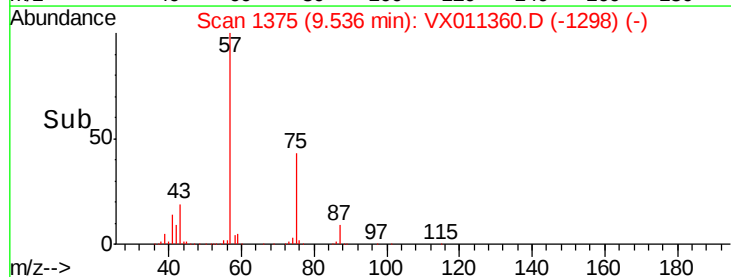
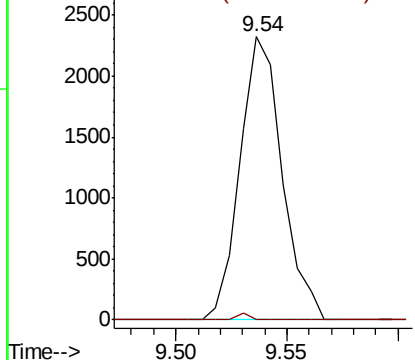
#57

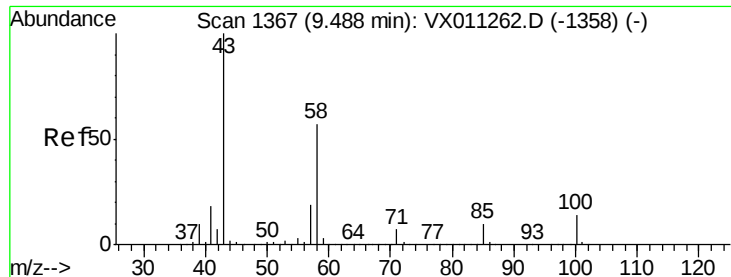
1,3-Dichloropropane
 Concen: 0.953 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011360.D
 Acq: 07 Aug 2019 13:55

Tgt Ion: 76 Resp: 3066
 Ion Ratio Lower Upper
 76 100
 78 0.7 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

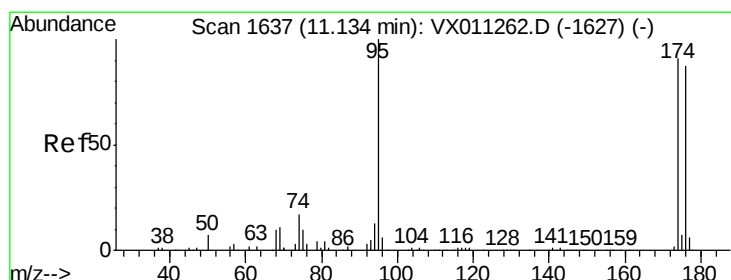
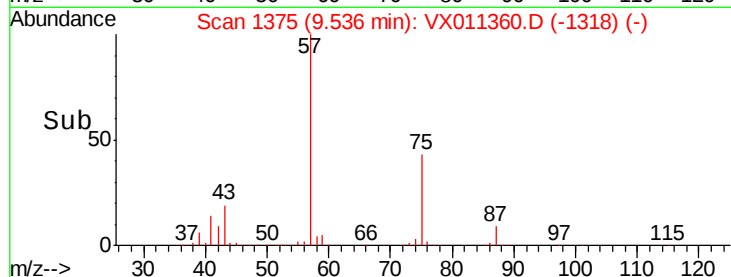
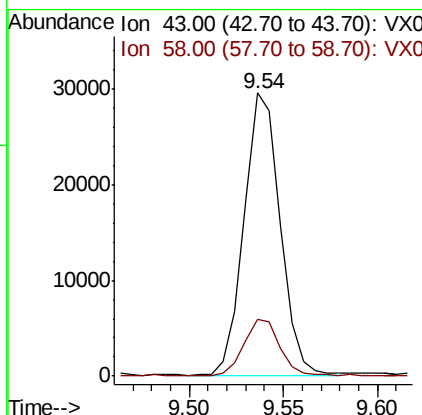
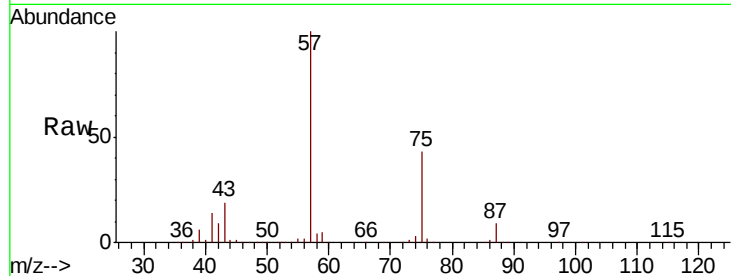




#59
2-Hexanone
Concen: 19.485 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

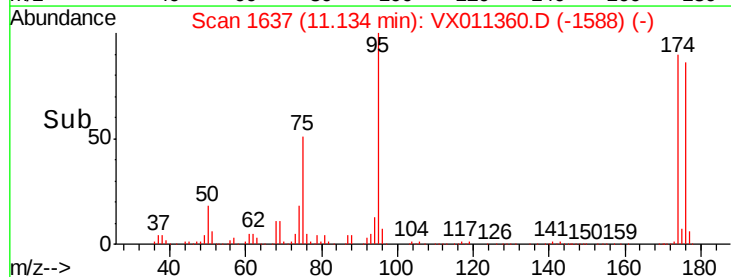
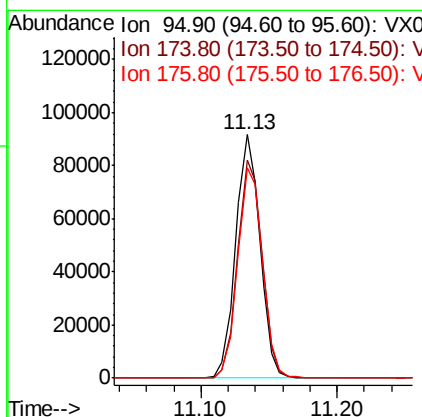
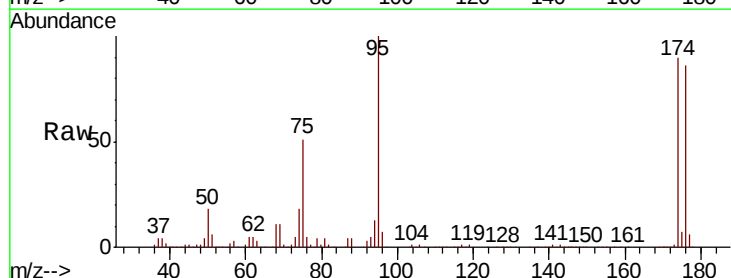
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-WEST

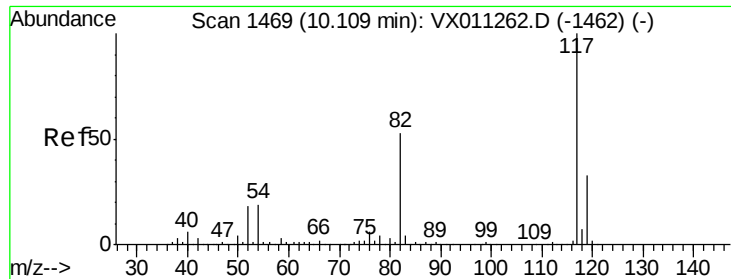
Tgt Ion: 43 Resp: 39179
Ion Ratio Lower Upper
43 100
58 20.4 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 45.082 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

Tgt Ion: 95 Resp: 113955
Ion Ratio Lower Upper
95 100
174 90.9 0.0 191.2
176 88.2 0.0 184.8

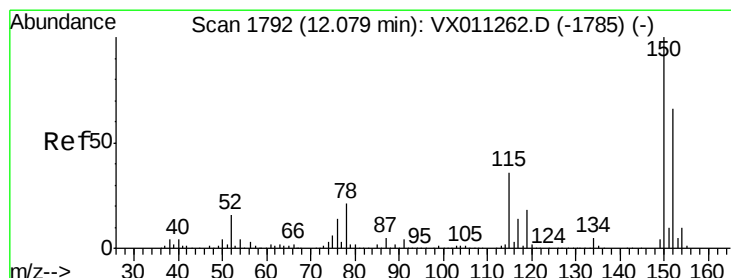
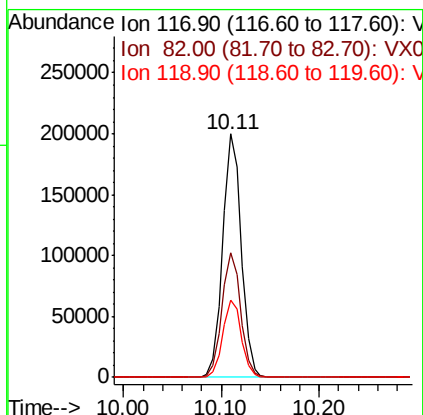
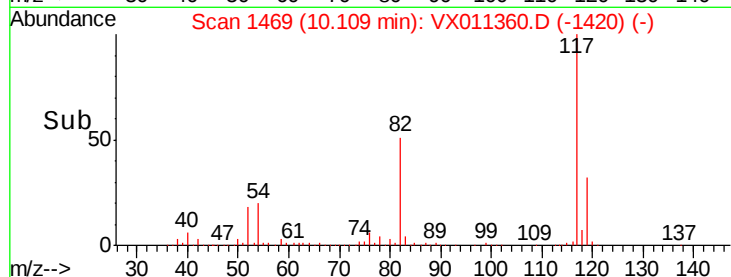
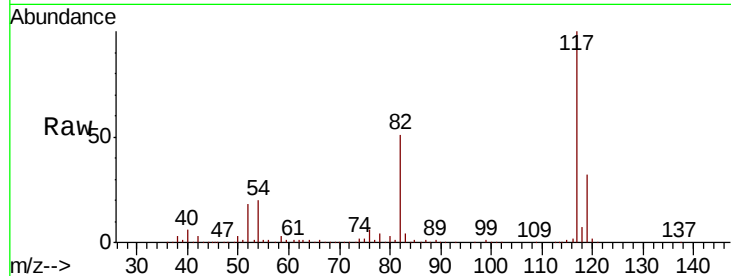




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

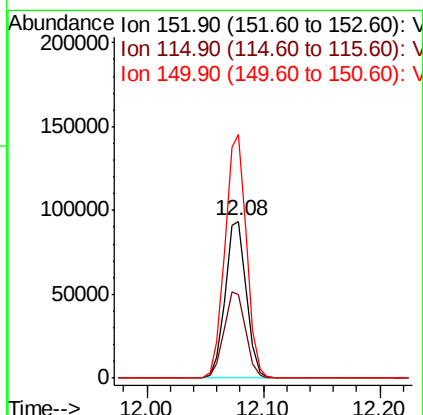
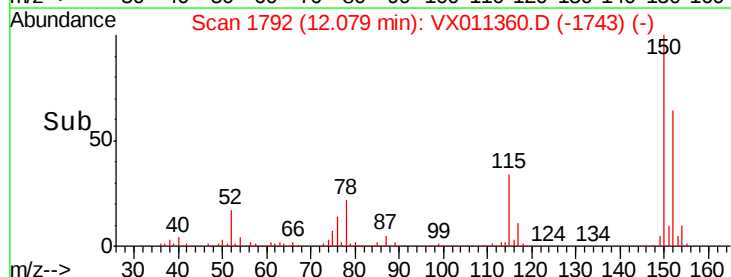
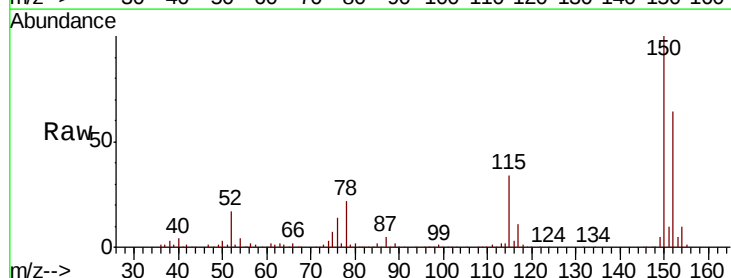
Instrument :
MSVOA_X
ClientSampleId :
TRIPLE-BARREL-BC-WEST

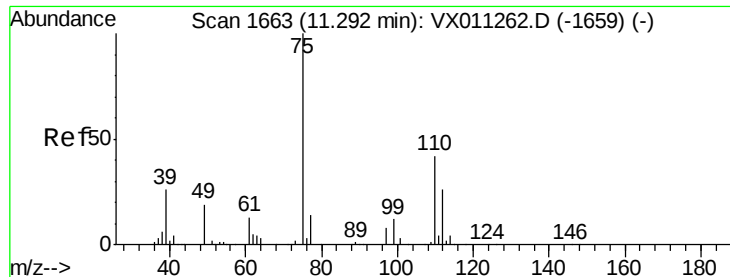
Tgt Ion:117 Resp: 264073
Ion Ratio Lower Upper
117 100
82 51.4 42.2 63.2
119 31.7 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011360.D
Acq: 07 Aug 2019 13:55

Tgt Ion:152 Resp: 118038
Ion Ratio Lower Upper
152 100
115 55.9 40.0 119.9
150 156.8 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 26.423 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

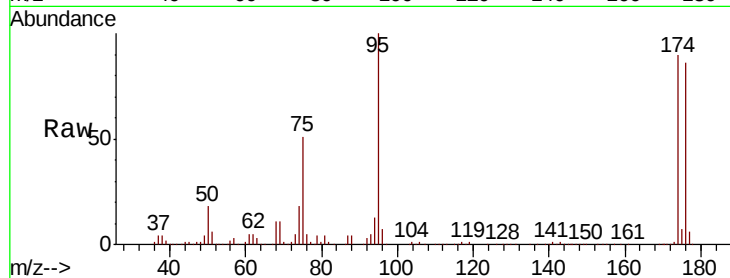
TRIPLE-BARREL-BC-WEST

Tgt Ion: 75 Resp: 56799

Ion Ratio Lower Upper

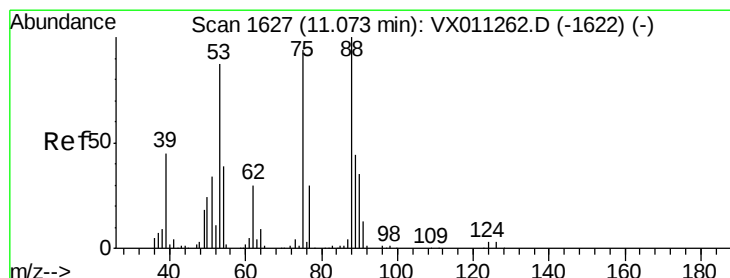
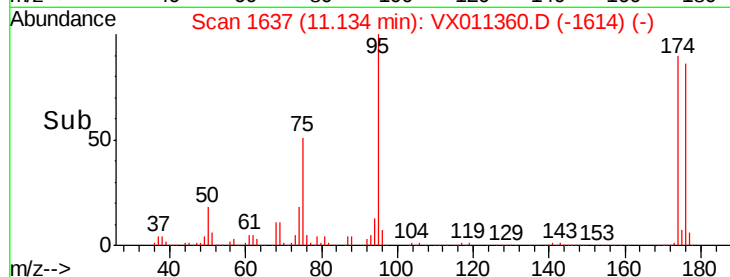
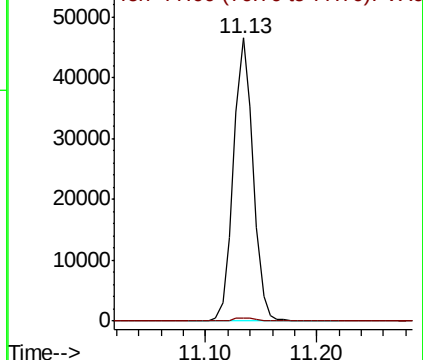
75 100

77 1.2 21.1 63.4#



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: 68.695 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011360.D

Acq: 07 Aug 2019 13:55

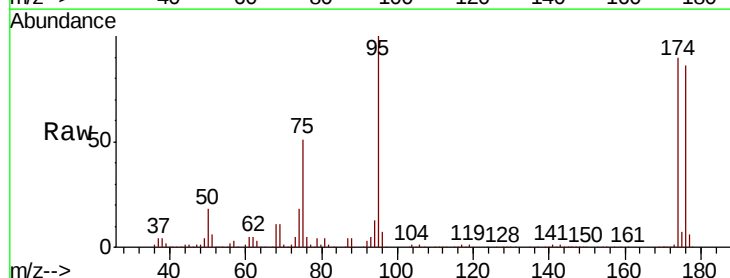
Tgt Ion: 75 Resp: 56799

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 37.9 56.9#



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

