

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082219\
 Data File : VX011761.D
 Acq On : 22 Aug 2019 14:58
 Operator : JC/SP
 Sample : K4388-28
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-C-(0)

Quant Time: Aug 23 02:01:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	475325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	649609	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	580789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	289885	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	218282	45.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.42%	
35) Dibromofluoromethane	5.49	113	194101	46.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.42%	
50) Toluene-d8	8.71	98	723028	49.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.70%	
62) 4-Bromofluorobenzene	11.13	95	254896	44.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.02%	

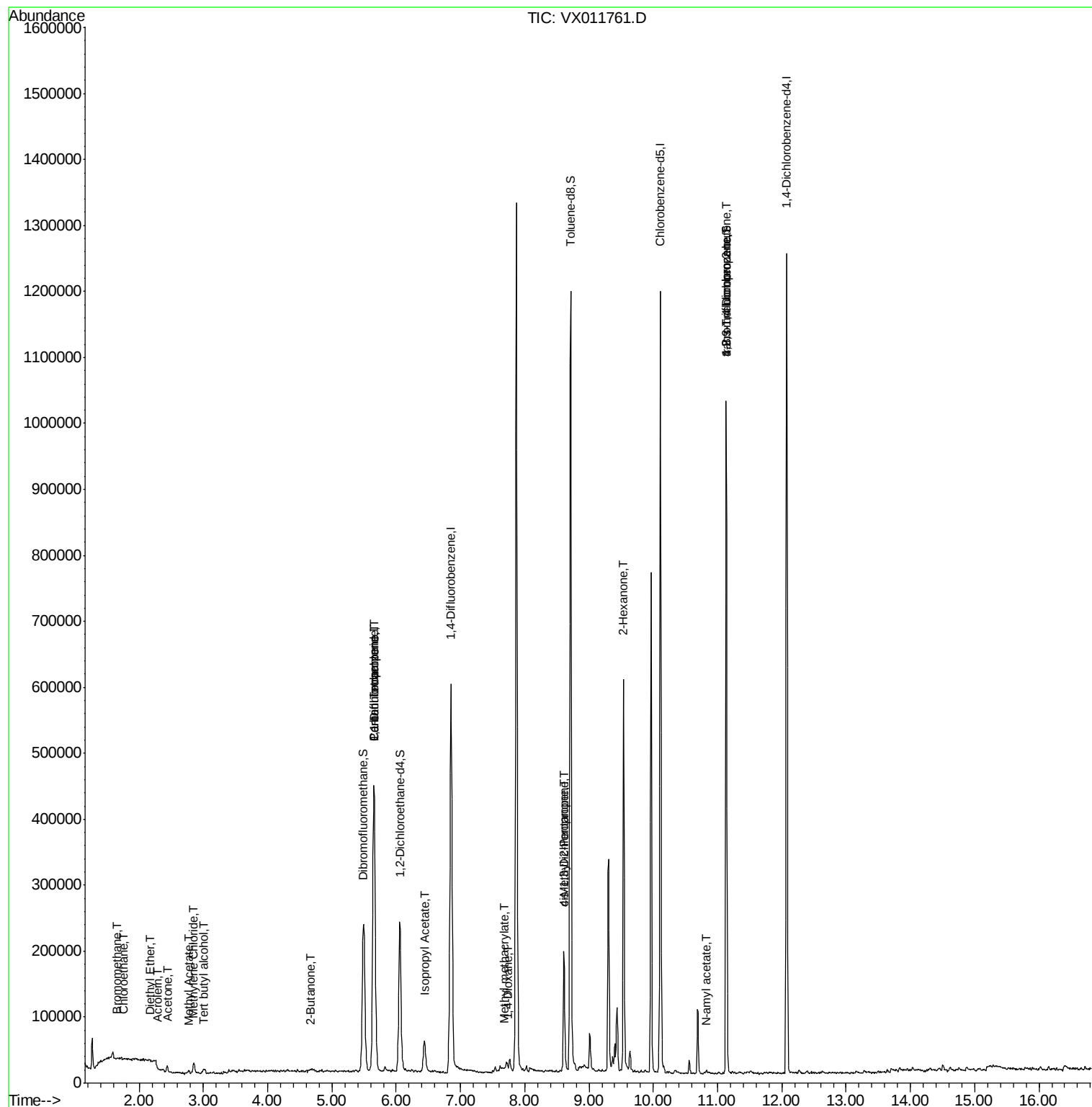
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	430	0.201	ug/l #	39
6) Chloroethane	1.75	64	1242	0.546	ug/l #	73
8) Diethyl Ether	2.17	74	501	0.238	ug/l	81
11) Tert butyl alcohol	3.01	59	5119	5.425	ug/l #	84
13) Acrolein	2.29	56	237	0.650	ug/l #	1
16) Acetone	2.43	43	8936	4.302	ug/l	99
18) Methyl Acetate	2.77	43	3829	0.679	ug/l #	78
20) Methylene Chloride	2.85	84	8445	1.989	ug/l	90
25) 2-Butanone	4.67	43	2169	0.728	ug/l #	77
36) 1,1-Dichloropropene	5.65	75	25516	5.009	ug/l #	46
38) Carbon Tetrachloride	5.65	117	39641	6.866	ug/l #	16
43) Isopropyl Acetate	6.44	43	66397	7.610	ug/l	99
48) Methyl methacrylate	7.67	41	3804	0.876	ug/l #	16
49) 1,4-Dioxane	7.74	88	376	3.125	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	61163	10.638	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	29087	4.832	ug/l #	60
59) 2-Hexanone	9.54	43	71913	16.297	ug/l #	49
74) N-amyl acetate	10.83	43	2620	0.387	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	116954	22.993	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	116954	69.341	ug/l #	11

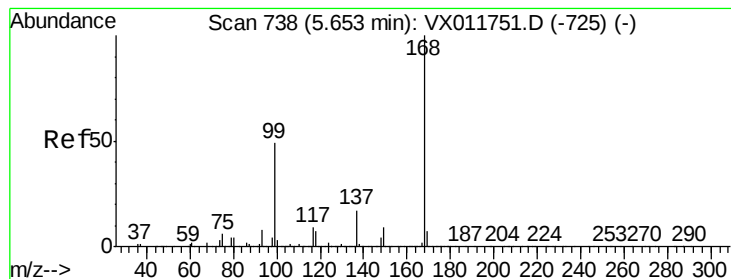
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

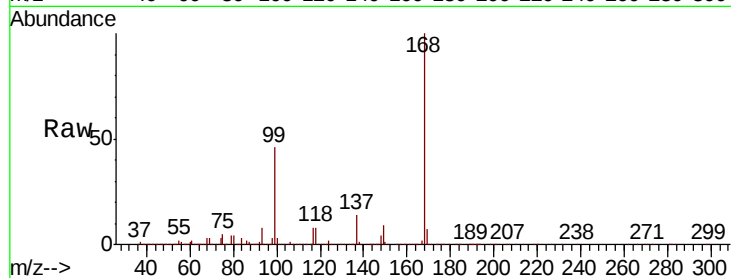
T4-C-(0)

Tgt Ion:168 Resp: 475325

Ion Ratio Lower Upper

168 100

99 45.4 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

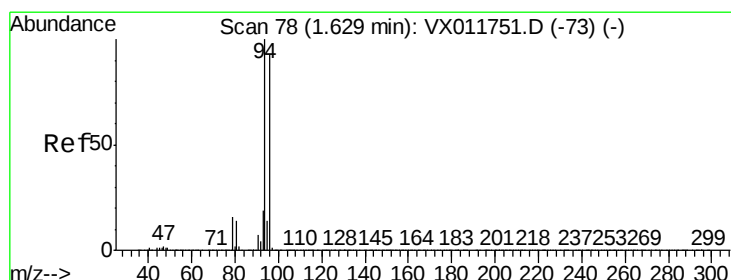
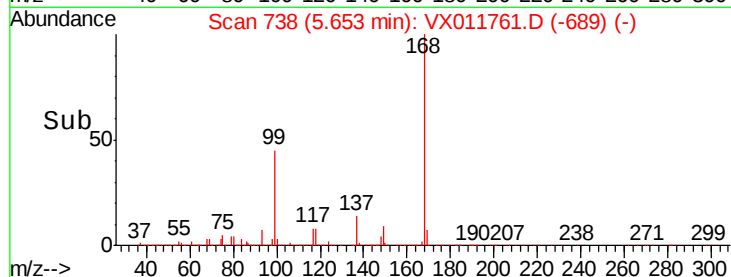
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.201 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011761.D

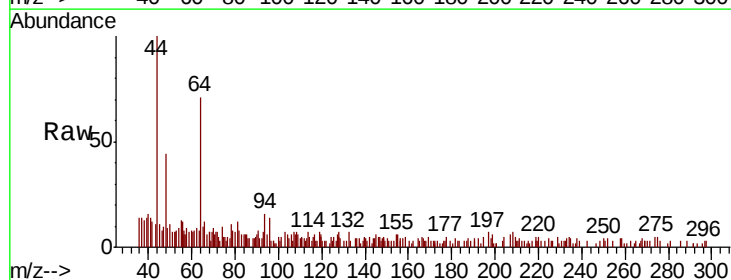
Acq: 22 Aug 2019 14:58

Tgt Ion: 94 Resp: 430

Ion Ratio Lower Upper

94 100

96 34.1 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

300

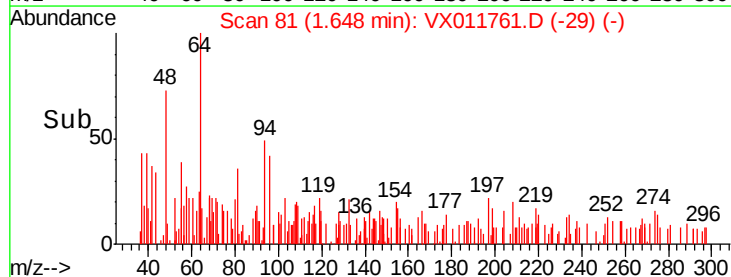
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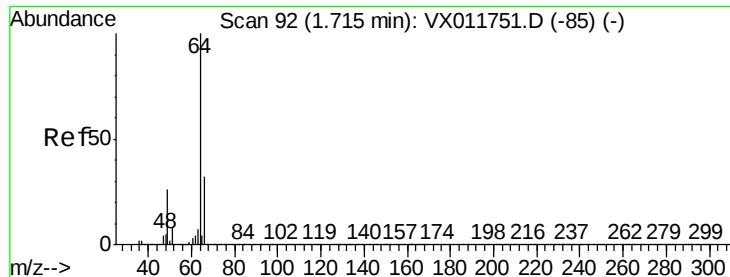
100

0

1.62 1.64 1.66 1.68

Time-->





#6

Chloroethane

Concen: 0.546 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

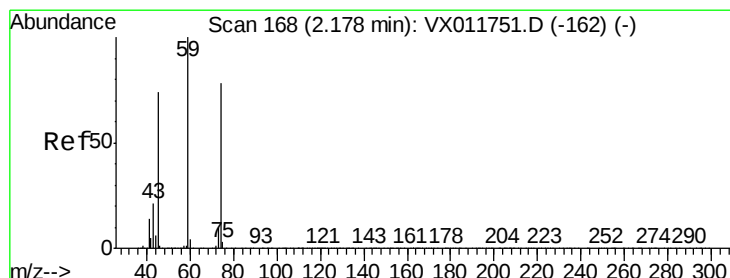
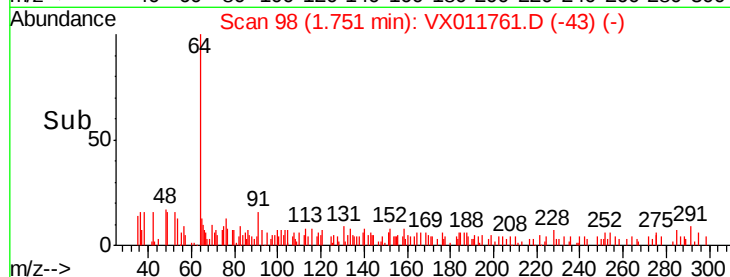
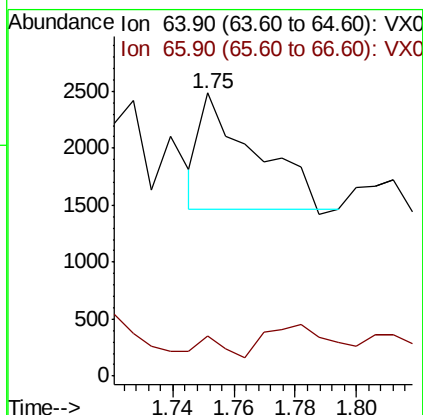
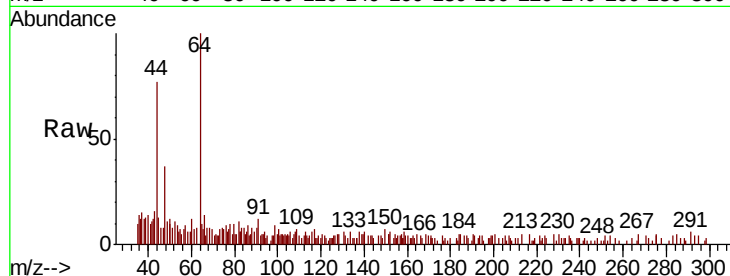
T4-C-(0)

Tgt Ion: 64 Resp: 1242

Ion Ratio Lower Upper

64 100

66 16.1 24.9 37.3#



#8

Diethyl Ether

Concen: 0.238 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.01 min

Lab File: VX011761.D

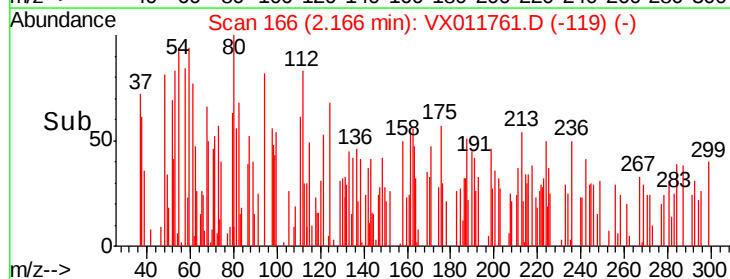
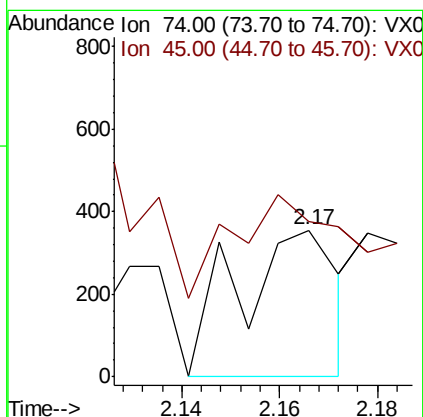
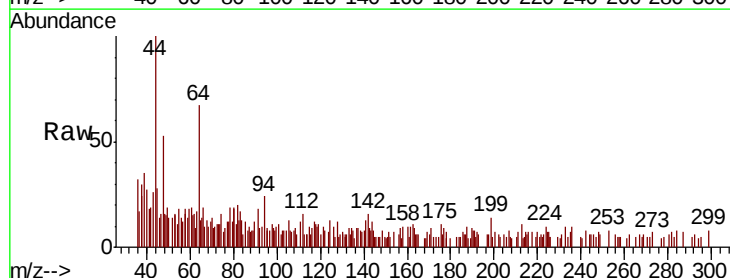
Acq: 22 Aug 2019 14:58

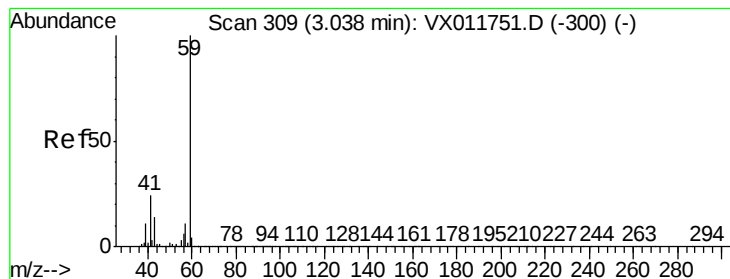
Tgt Ion: 74 Resp: 501

Ion Ratio Lower Upper

74 100

45 75.4 46.7 140.0



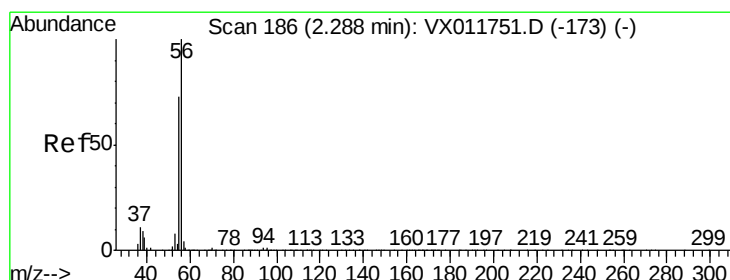
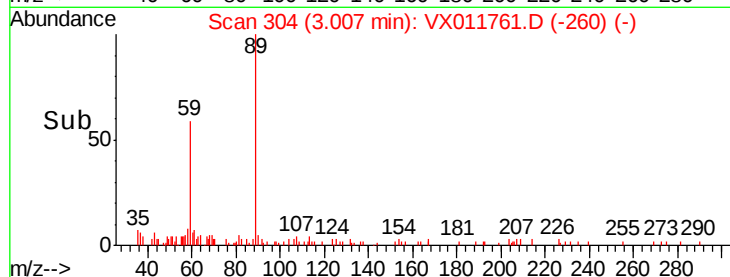
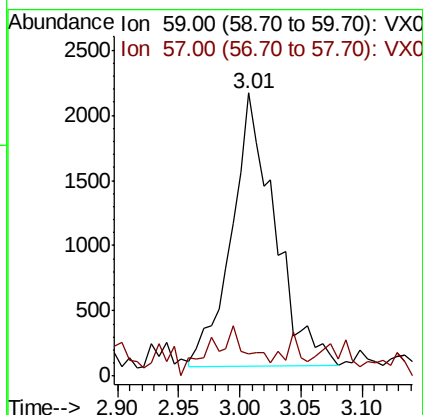
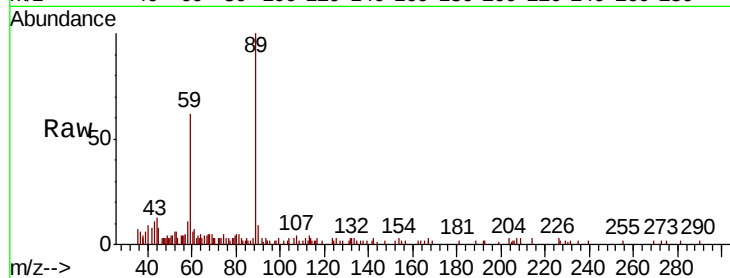


#11

Tert butyl alcohol
 Concen: 5.425 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.03 min
 Lab File: VX011761.D
 Acq: 22 Aug 2019 14:58

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-C-(0)

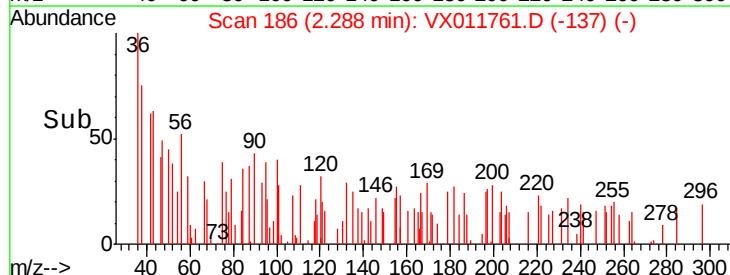
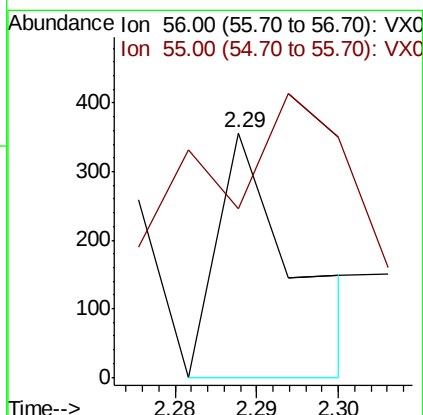
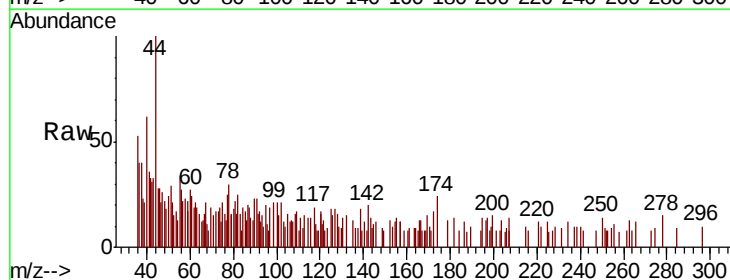
Tgt Ion: 59 Resp: 5119
 Ion Ratio Lower Upper
 59 100
 57 16.5 8.4 12.6#

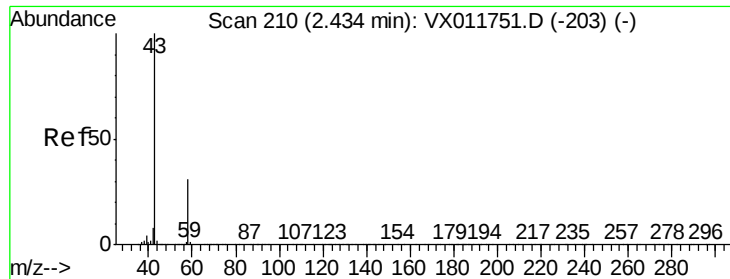


#13

Acrolein
 Concen: 0.650 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.00 min
 Lab File: VX011761.D
 Acq: 22 Aug 2019 14:58

Tgt Ion: 56 Resp: 237
 Ion Ratio Lower Upper
 56 100
 55 161.2 54.8 82.2#





#16

Acetone

Concen: 4.302 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

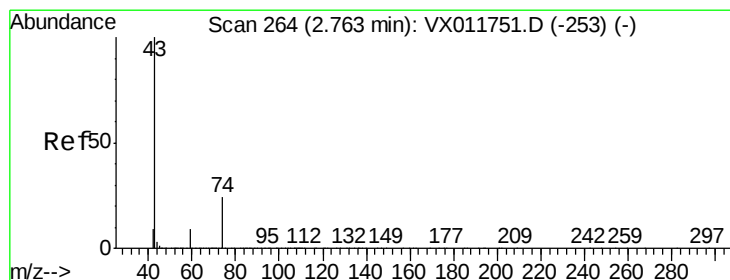
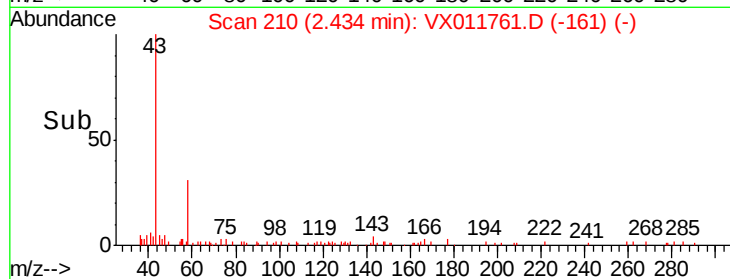
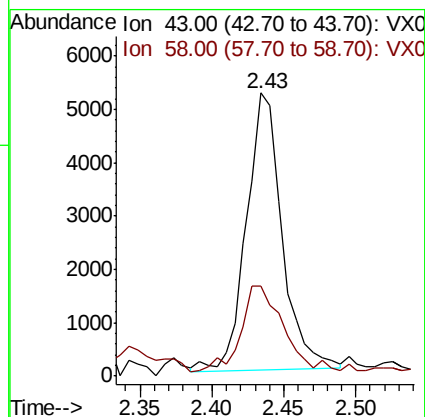
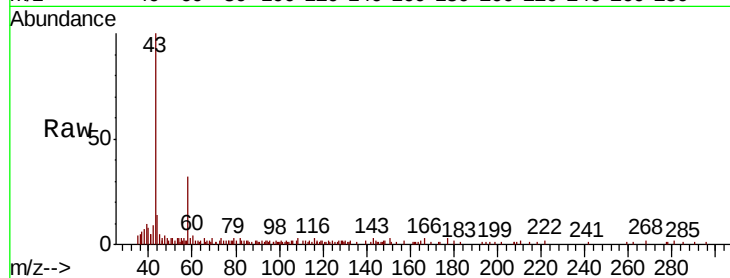
T4-C-(0)

Tgt Ion: 43 Resp: 8936

Ion Ratio Lower Upper

43 100

58 31.1 24.4 36.6



#18

Methyl Acetate

Concen: 0.679 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011761.D

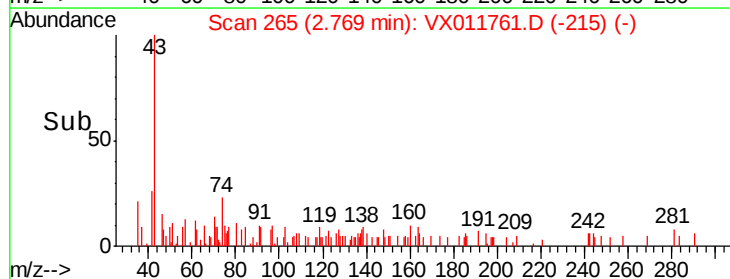
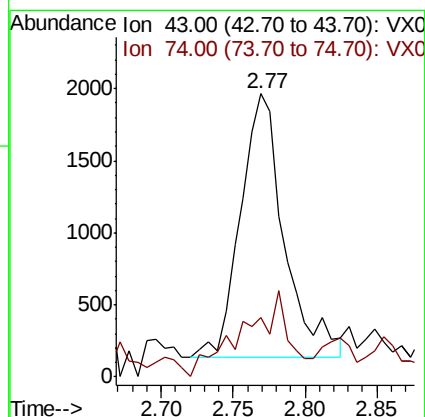
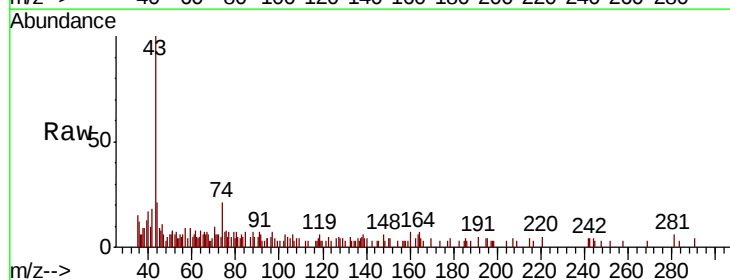
Acq: 22 Aug 2019 14:58

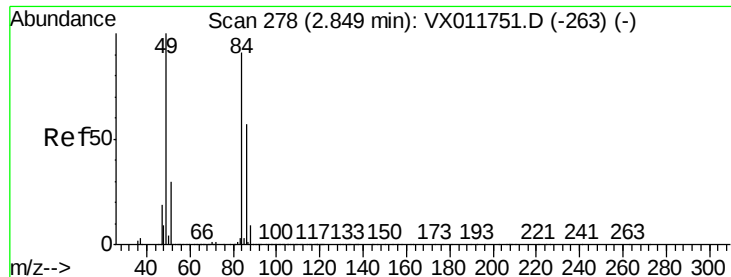
Tgt Ion: 43 Resp: 3829

Ion Ratio Lower Upper

43 100

74 35.2 19.5 29.3#

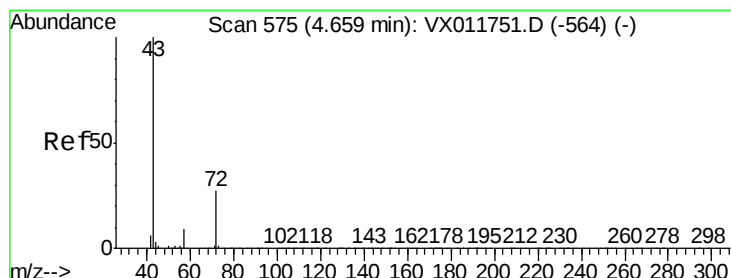
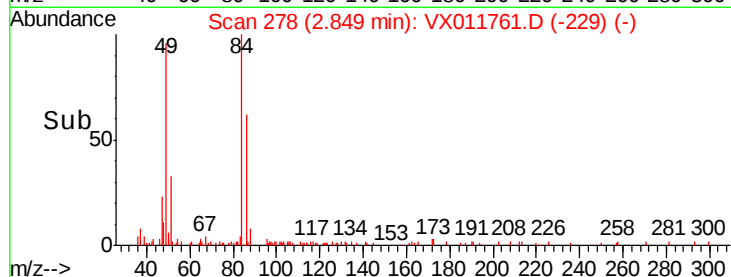
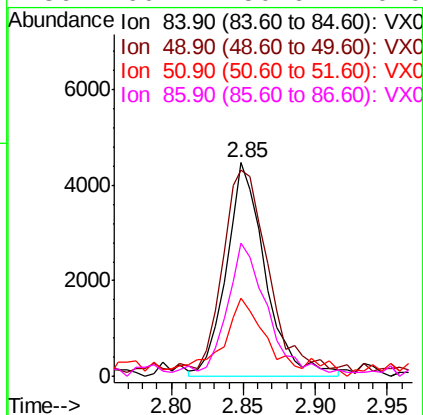
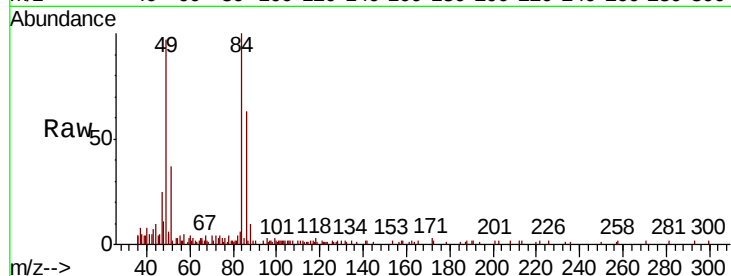




#20
Methylene Chloride
Concen: 1.989 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011761.D
Acq: 22 Aug 2019 14:58

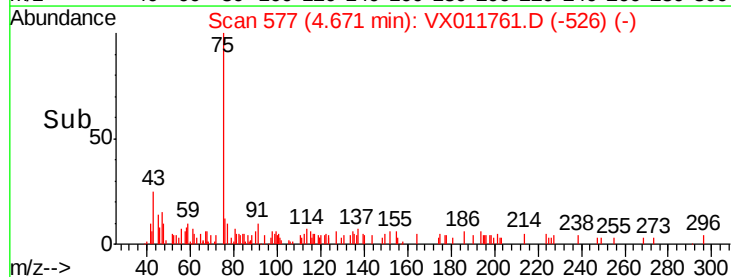
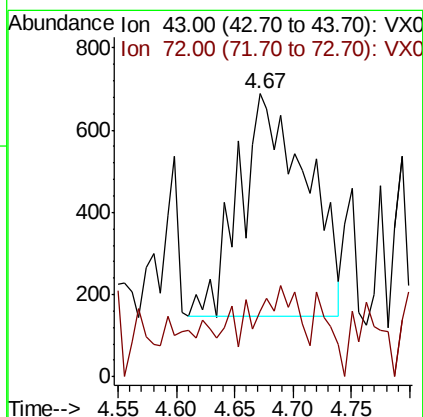
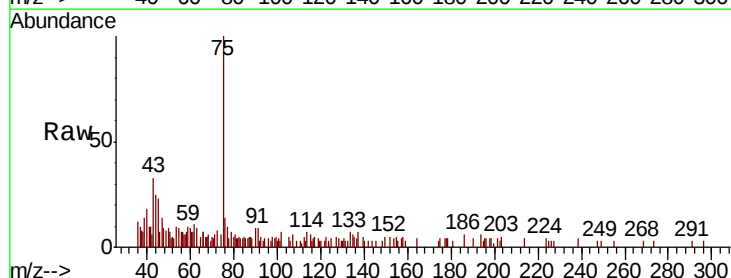
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(0)

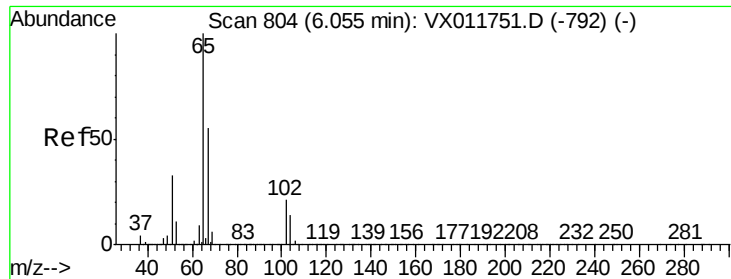
Tgt Ion:	84	Resp:	8445
Ion	Ratio	Lower	Upper
84	100		
49	94.0	88.3	132.5
51	34.5	26.2	39.2
86	60.7	50.6	76.0



#25
2-Butanone
Concen: 0.728 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.01 min
Lab File: VX011761.D
Acq: 22 Aug 2019 14:58

Tgt Ion:	43	Resp:	2169
Ion	Ratio	Lower	Upper
43	100		
72	15.2	21.8	32.6#





#33

1,2-Dichloroethane-d4

Concen: 45.714 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

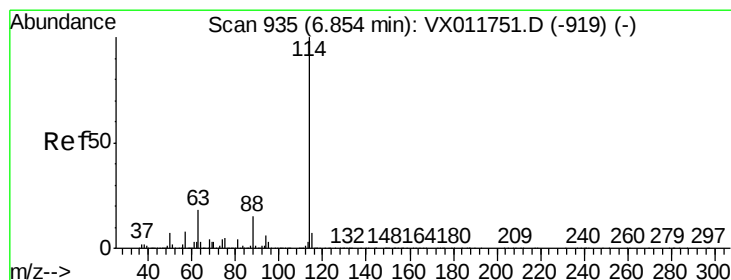
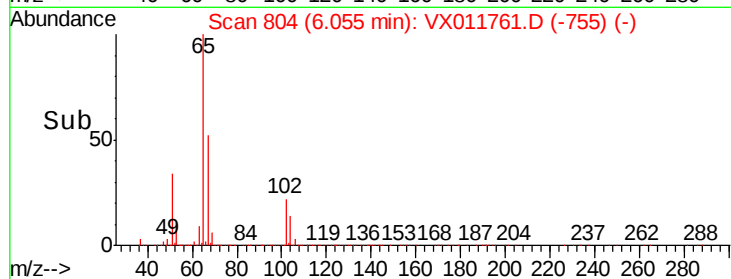
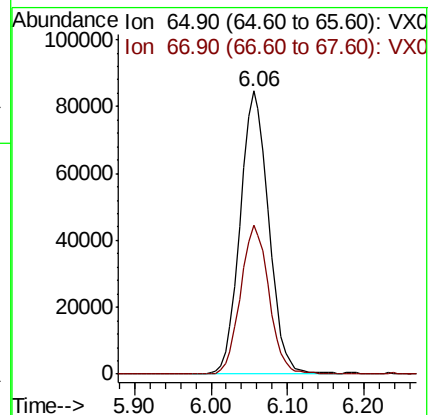
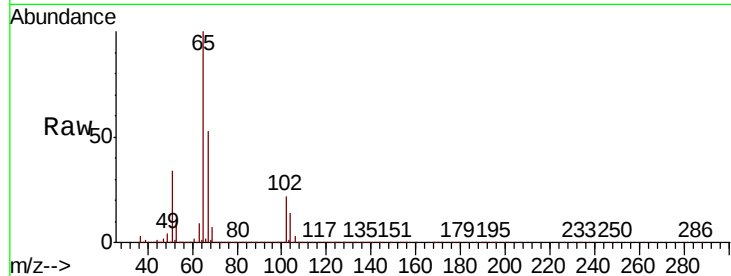
T4-C-(0)

Tgt Ion: 65 Resp: 218282

Ion Ratio Lower Upper

65 100

67 52.7 0.0 107.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

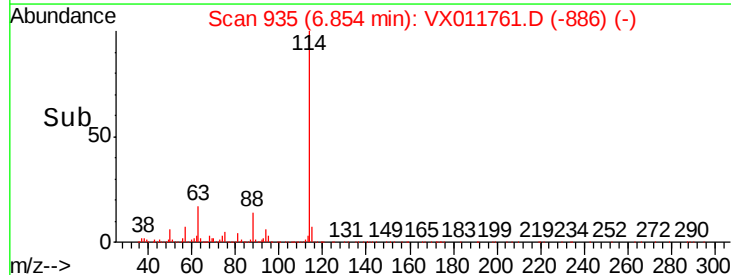
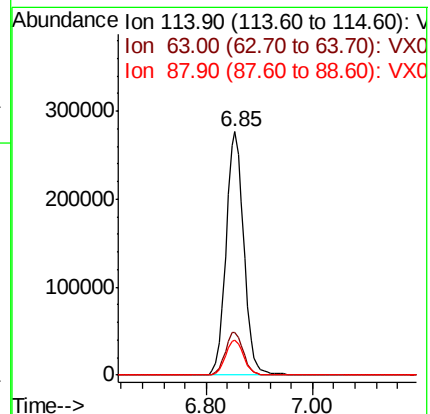
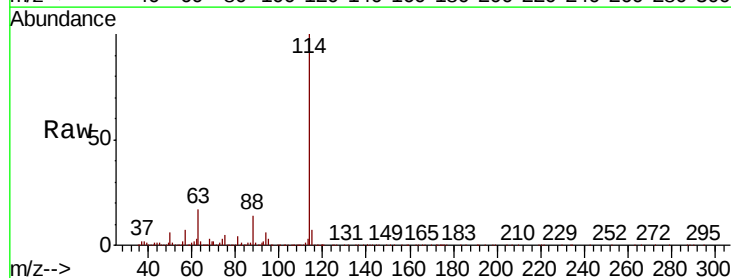
Tgt Ion: 114 Resp: 649609

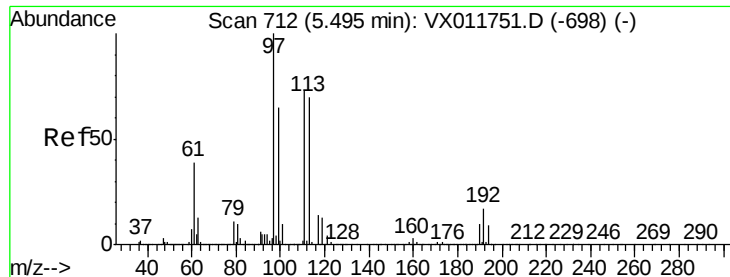
Ion Ratio Lower Upper

114 100

63 17.3 0.0 36.8

88 14.2 0.0 30.2

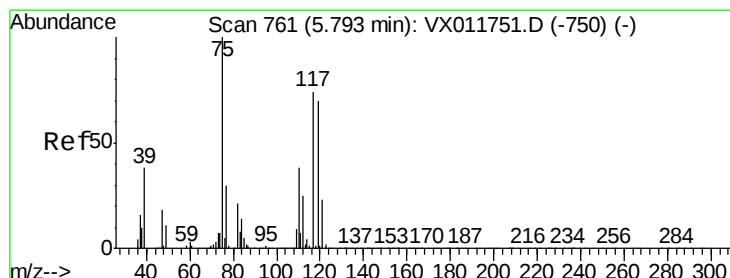
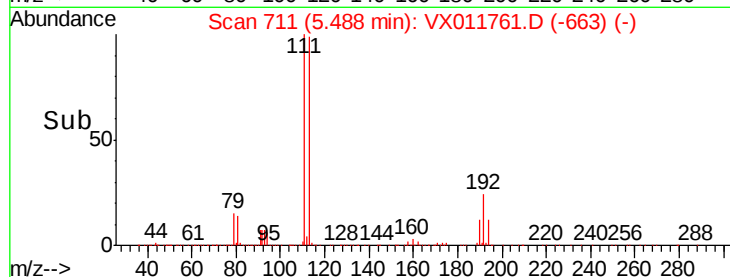
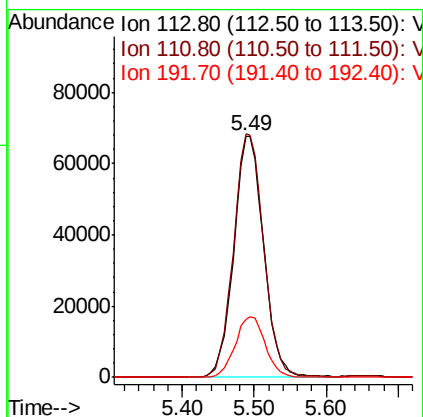
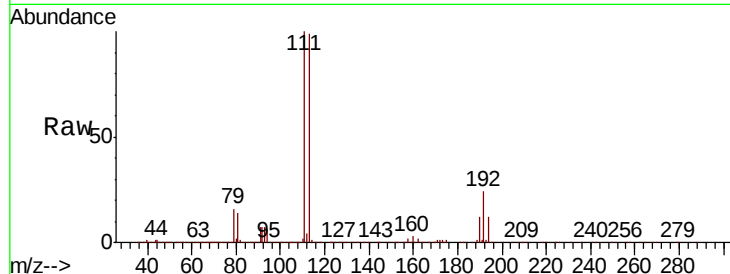




#35
 Dibromofluoromethane
 Concen: 46.208 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011761.D
 Acq: 22 Aug 2019 14:58

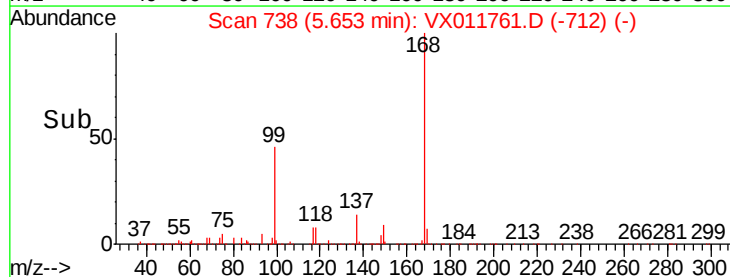
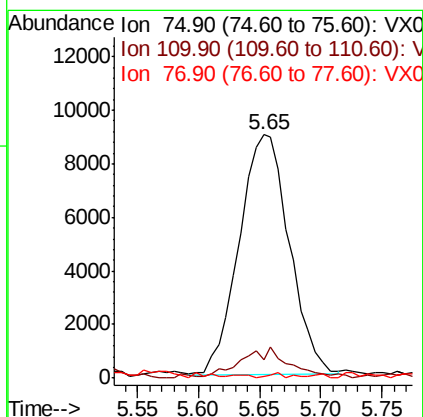
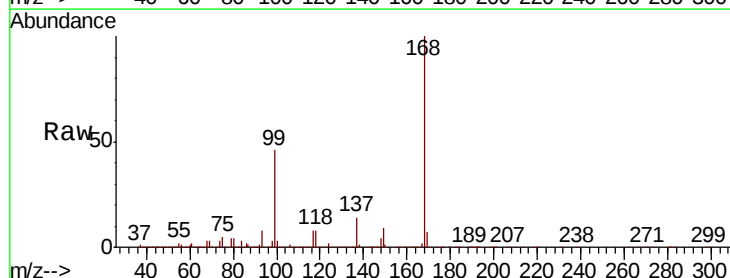
Instrument :
 MSVOA_X
 ClientSampleId :
 T4-C-(0)

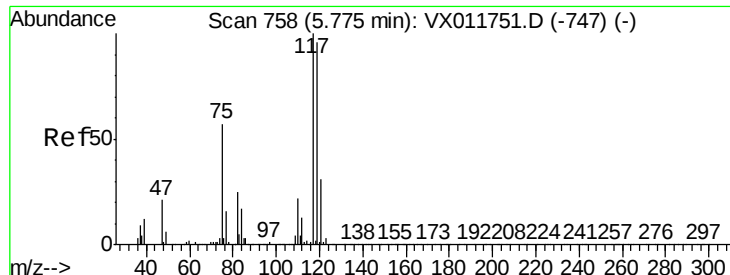
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.0	121.4
192	25.6	19.9	29.9



#36
 1,1-Dichloropropene
 Concen: 5.009 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011761.D
 Acq: 22 Aug 2019 14:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.6	19.0	57.0#
77	0.5	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.866 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

T4-C-(0)

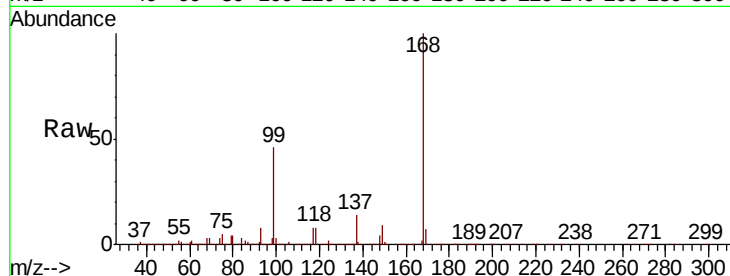
Tgt Ion:117 Resp: 39641

Ion Ratio Lower Upper

117 100

119 5.3 76.6 114.8#

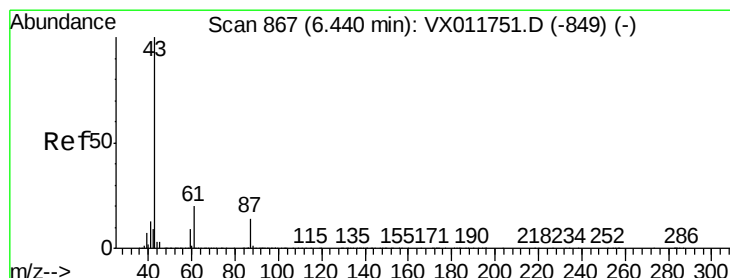
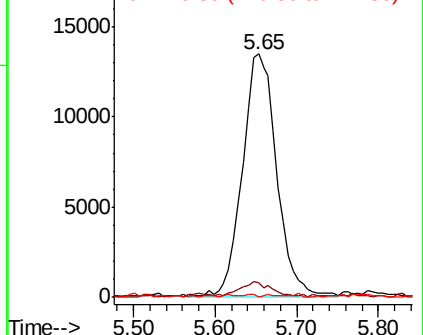
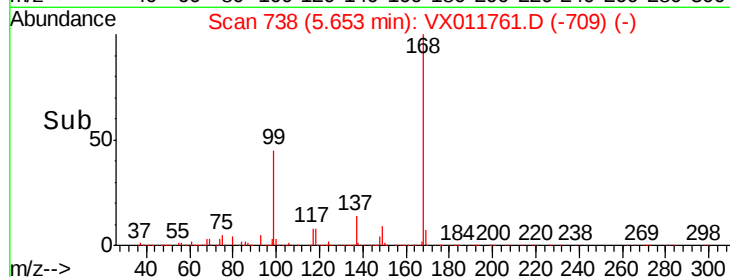
121 0.0 25.2 37.8#



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



#43

Isopropyl Acetate

Concen: 7.610 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

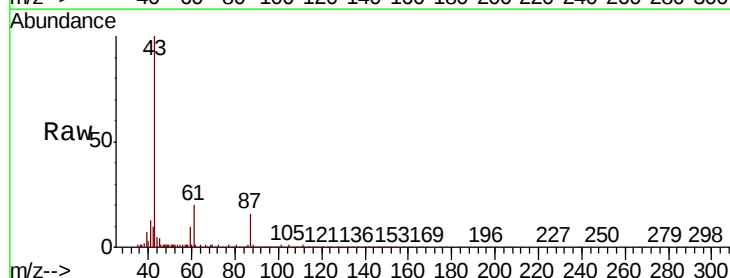
Tgt Ion: 43 Resp: 66397

Ion Ratio Lower Upper

43 100

61 20.8 16.2 24.2

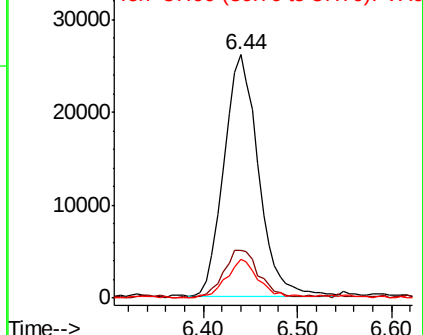
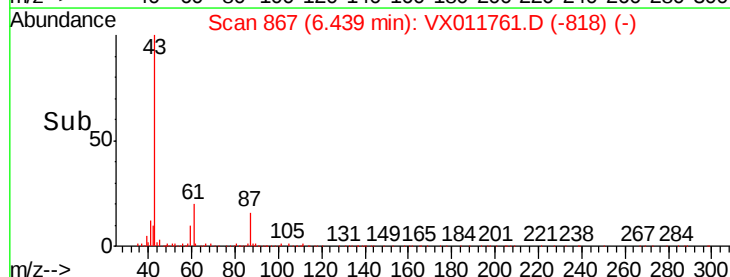
87 14.5 11.6 17.4

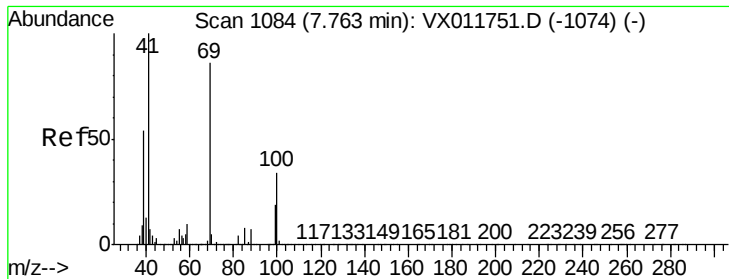


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

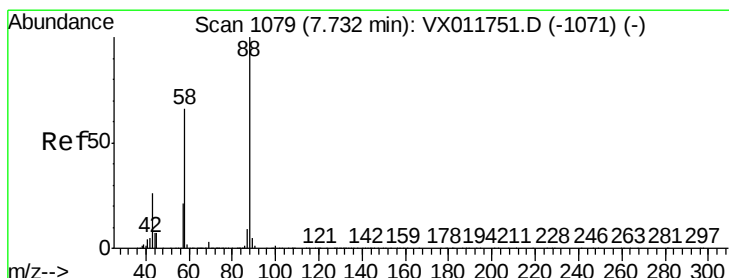
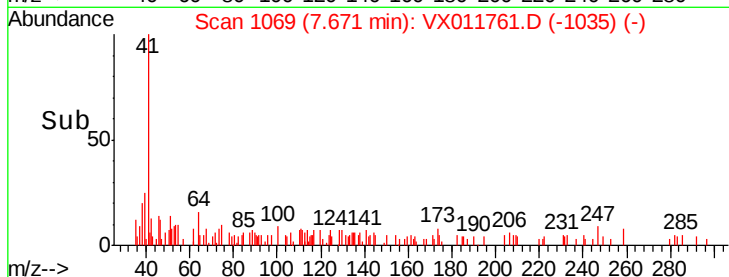
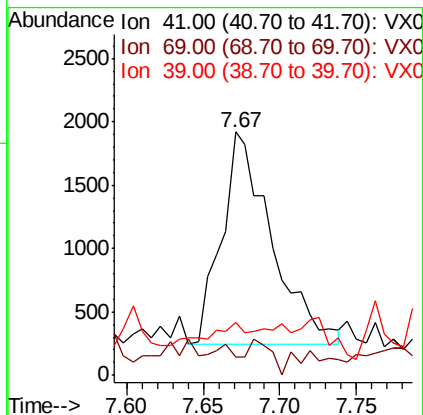
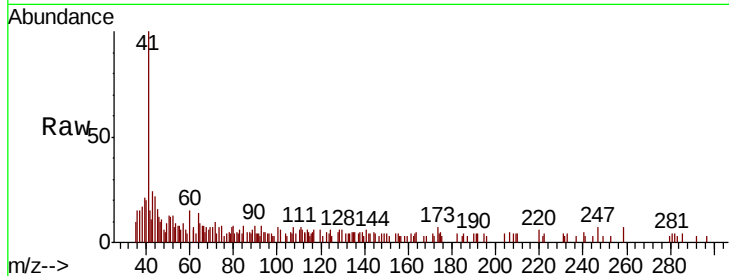




#48
Methyl methacrylate
Concen: 0.876 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011761.D
Acq: 22 Aug 2019 14:58

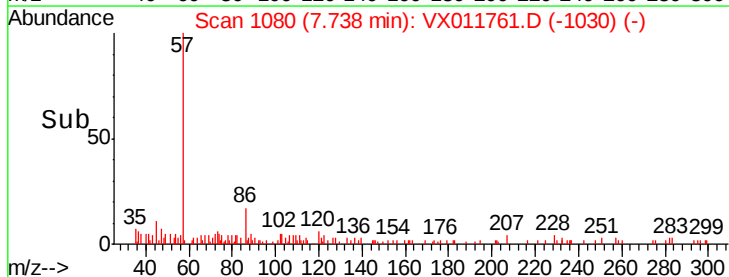
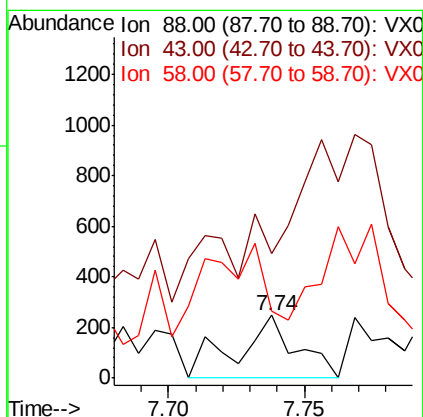
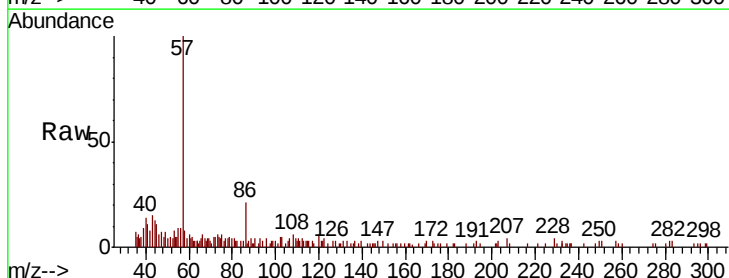
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(0)

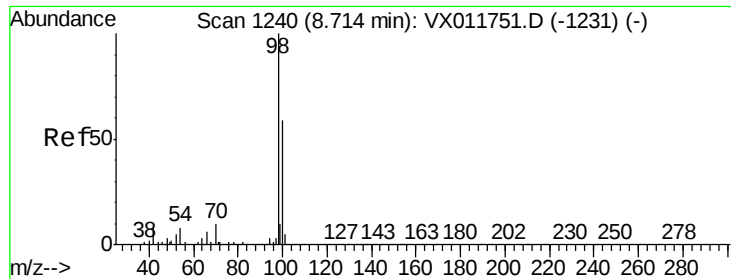
Tgt Ion: 41 Resp: 3804
Ion Ratio Lower Upper
41 100
69 4.7 69.4 104.2#
39 0.0 43.6 65.4#



#49
1,4-Dioxane
Concen: 3.125 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VX011761.D
Acq: 22 Aug 2019 14:58

Tgt Ion: 88 Resp: 376
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 189.4 51.4 77.2#





#50

Toluene-d8

Concen: 49.347 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

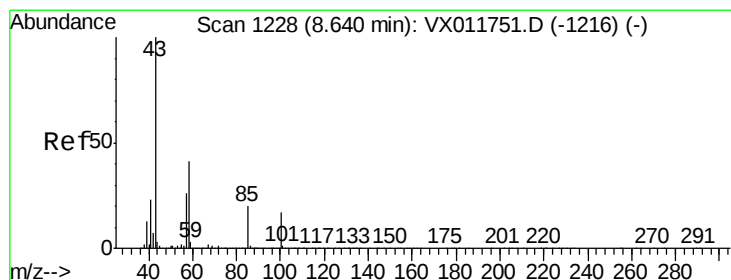
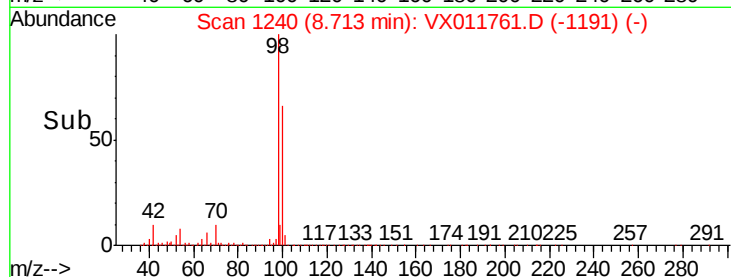
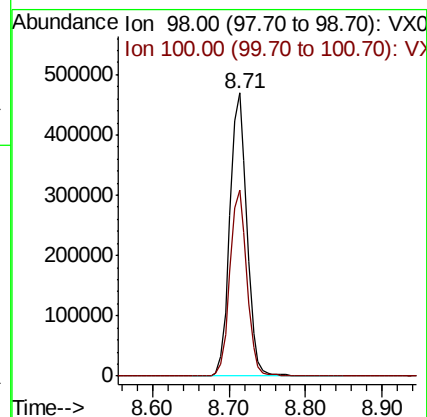
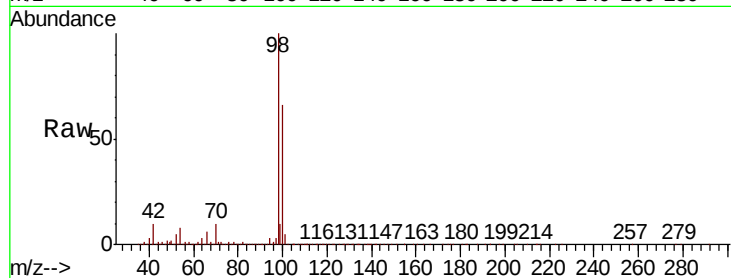
T4-C-(0)

Tgt Ion: 98 Resp: 723028

Ion Ratio Lower Upper

98 100

100 65.7 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 10.638 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011761.D

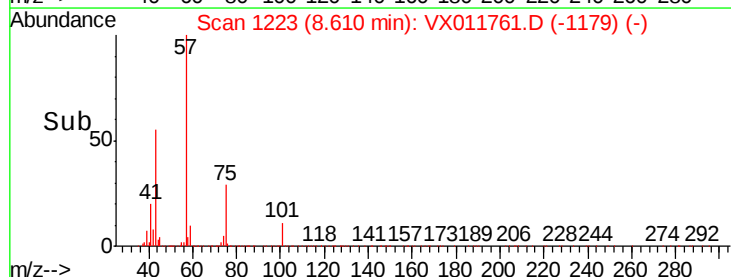
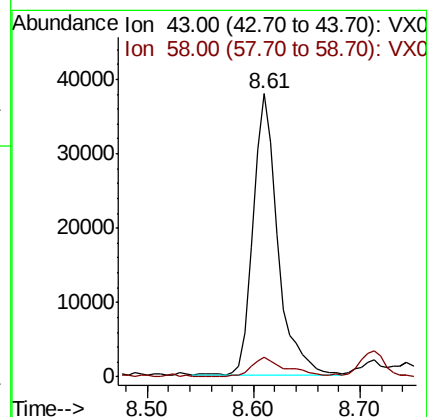
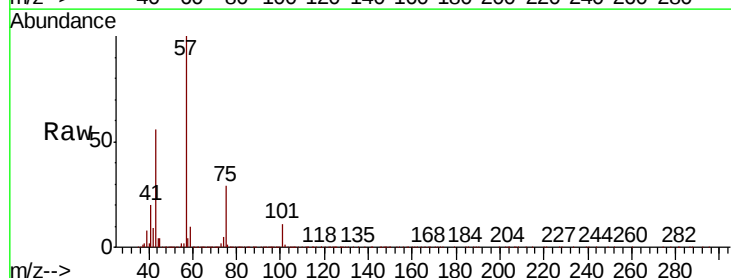
Acq: 22 Aug 2019 14:58

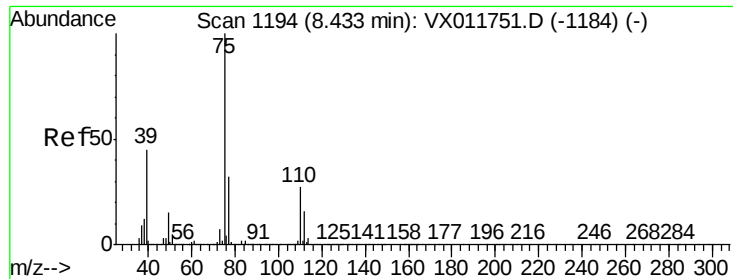
Tgt Ion: 43 Resp: 61163

Ion Ratio Lower Upper

43 100

58 9.6 31.8 47.6#



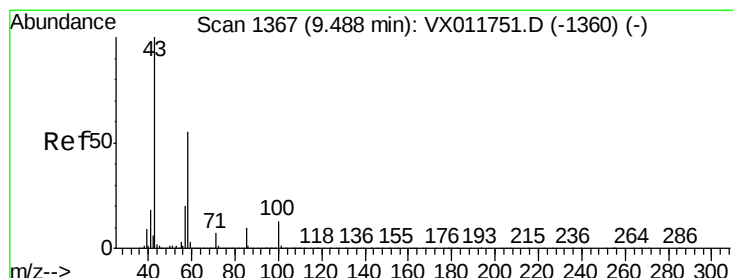
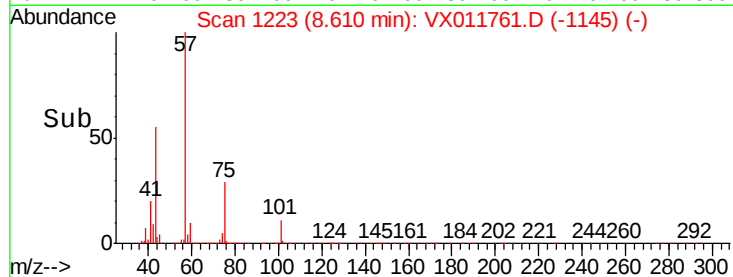
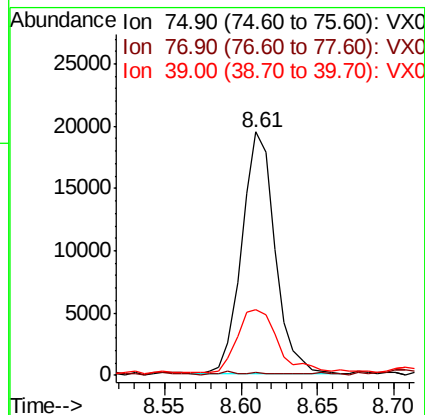
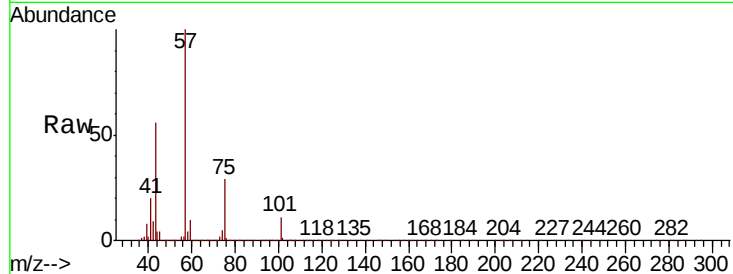


#54

cis-1,3-Dichloropropene
 Concen: 4.832 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011761.D
 Acq: 22 Aug 2019 14:58

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-C-(0)

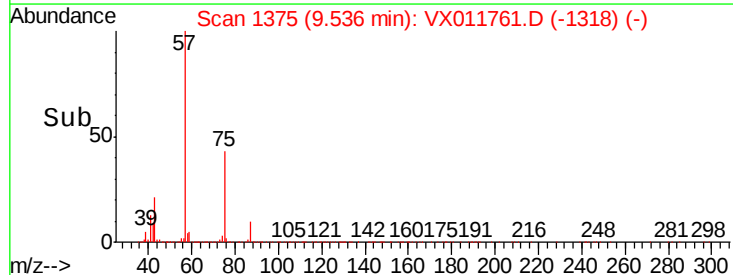
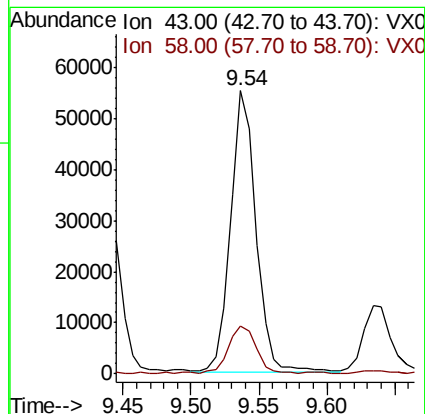
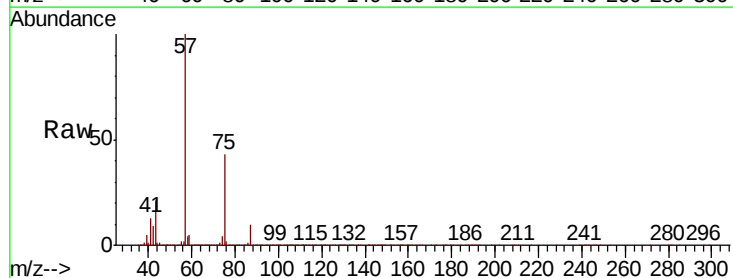
Tgt Ion: 75 Resp: 29087
 Ion Ratio Lower Upper
 75 100
 77 1.3 25.4 38.2#
 39 26.1 36.2 54.4#

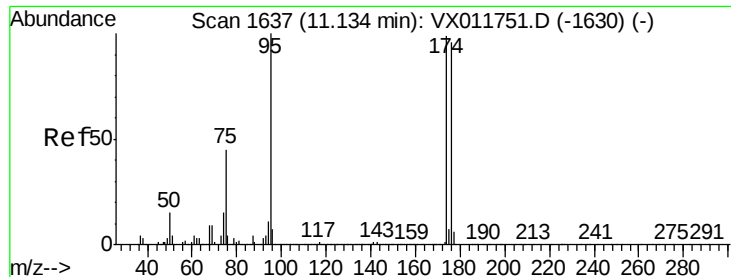


#59

2-Hexanone
 Concen: 16.297 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011761.D
 Acq: 22 Aug 2019 14:58

Tgt Ion: 43 Resp: 71913
 Ion Ratio Lower Upper
 43 100
 58 18.3 27.7 83.1#

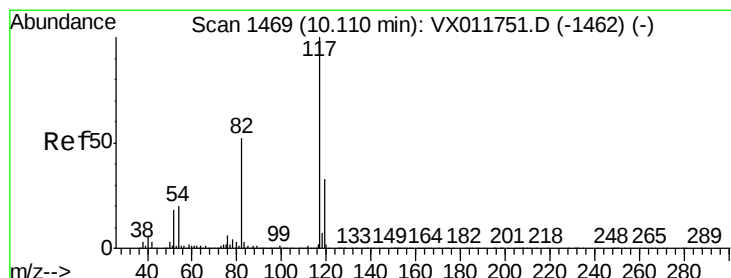
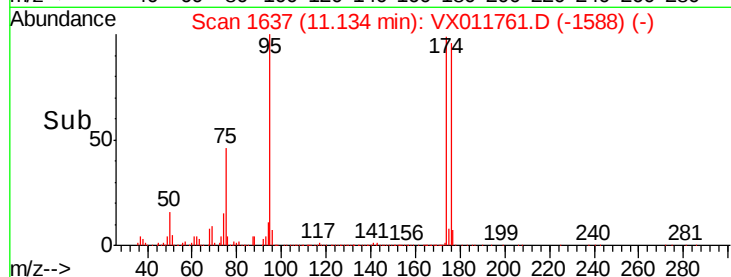
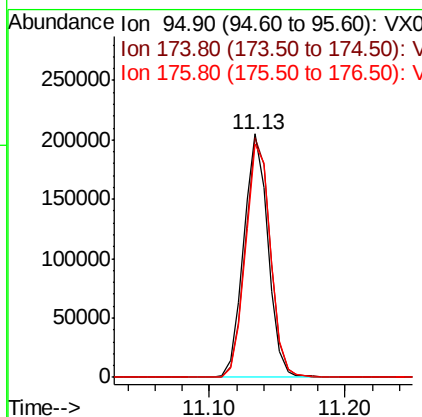
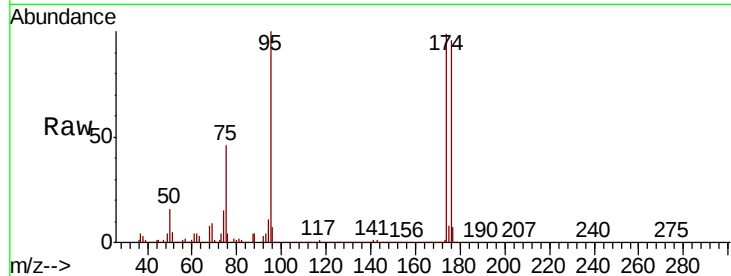




#62
4-Bromofluorobenzene
Concen: 44.014 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011761.D
Acq: 22 Aug 2019 14:58

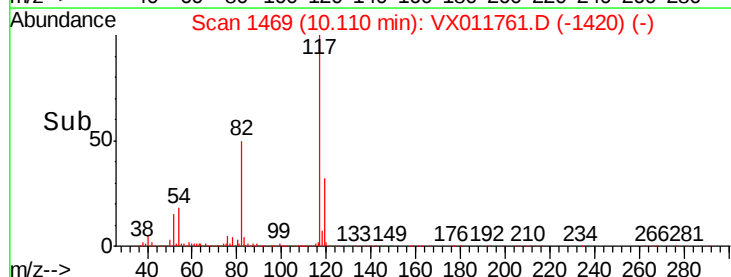
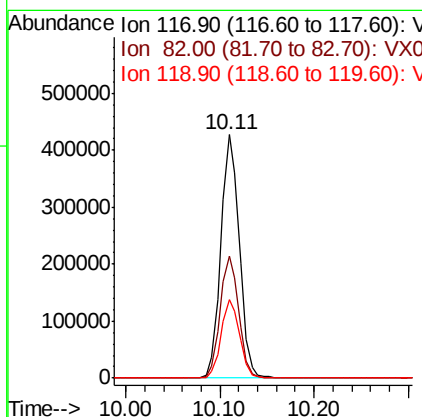
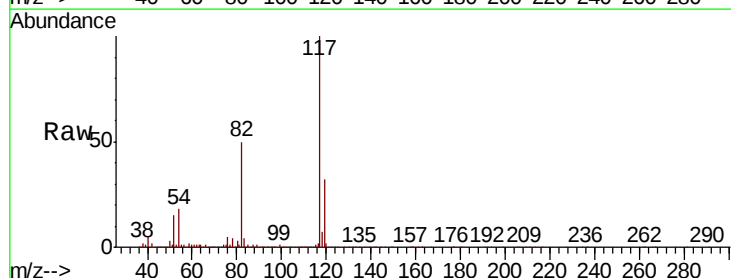
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(0)

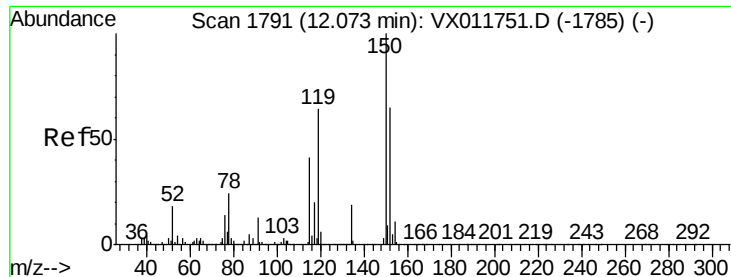
Tgt Ion: 95 Resp: 254896
Ion Ratio Lower Upper
95 100
174 101.5 0.0 197.4
176 99.7 0.0 194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011761.D
Acq: 22 Aug 2019 14:58

Tgt Ion: 117 Resp: 580789
Ion Ratio Lower Upper
117 100
82 50.4 41.7 62.5
119 32.3 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

T4-C-(0)

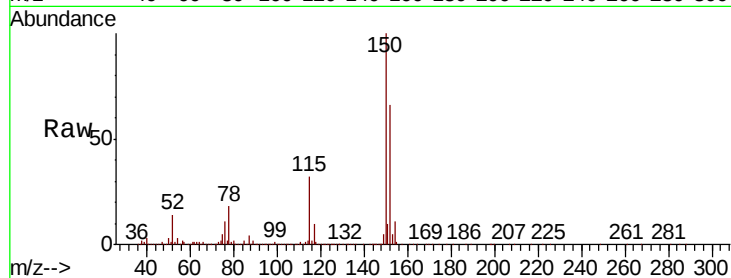
Tgt Ion:152 Resp: 289885

Ion Ratio Lower Upper

152 100

115 51.5 37.3 111.8

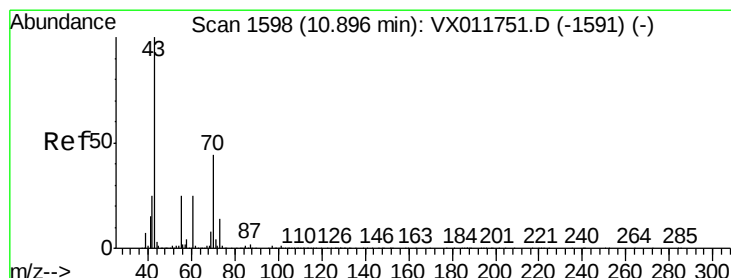
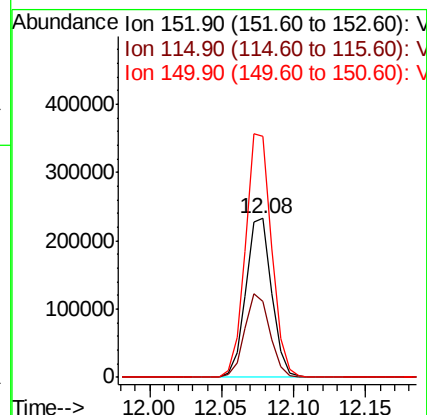
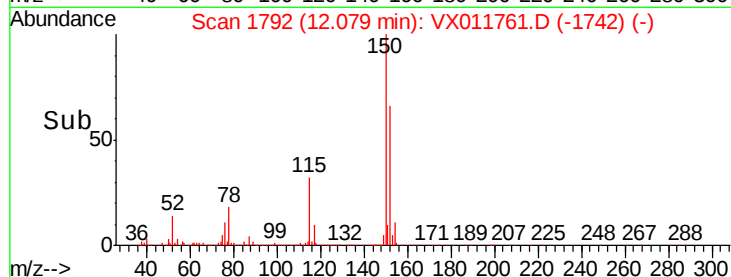
150 155.0 0.0 343.0



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



#74

N-aryl acetate

Concen: 0.387 ug/l

RT: 10.83 min Scan# 1587

Delta R.T. -0.07 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Tgt Ion: 43 Resp: 2620

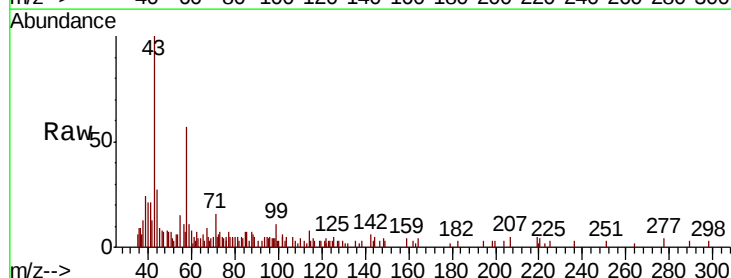
Ion Ratio Lower Upper

43 100

70 6.0 34.8 52.2#

55 18.9 19.5 29.3#

61 0.0 19.8 29.6#

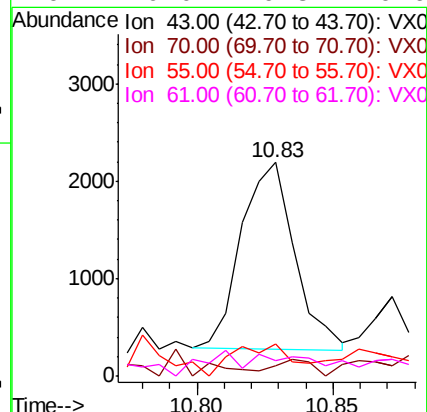
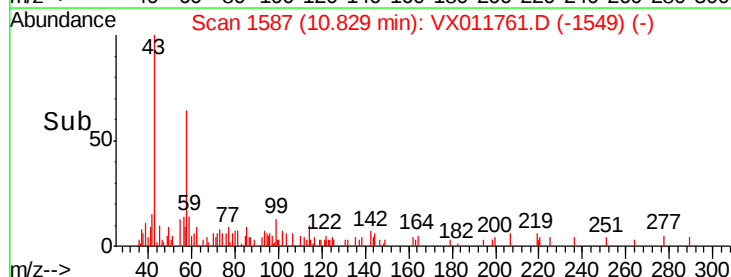


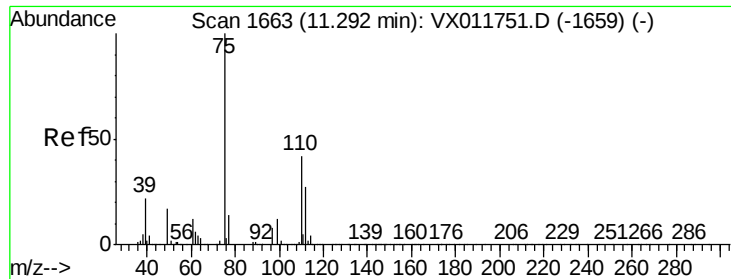
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.993 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Instrument :

MSVOA_X

ClientSampleId :

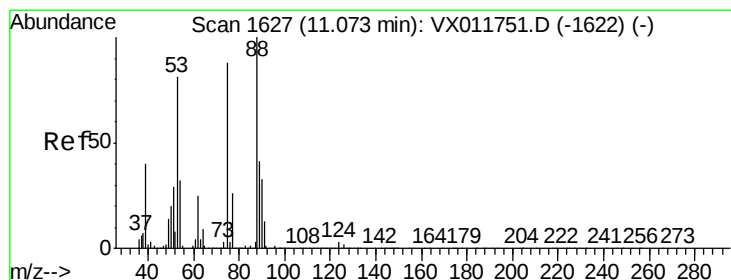
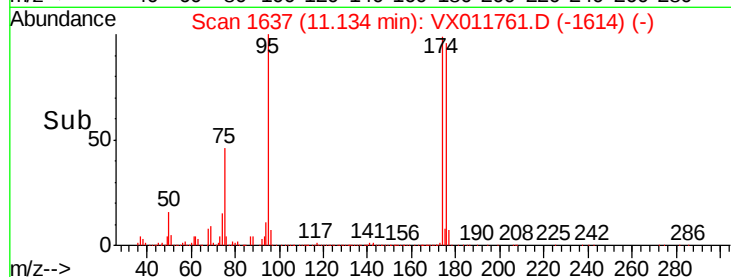
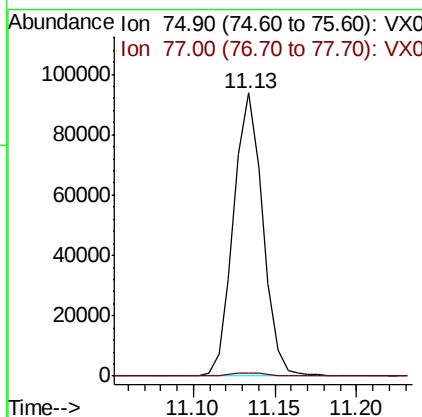
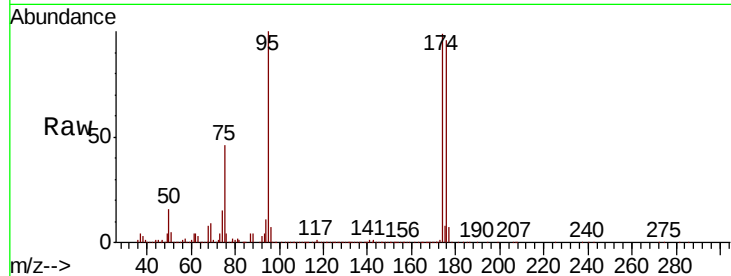
T4-C-(0)

Tgt Ion: 75 Resp: 116954

Ion Ratio Lower Upper

75 100

77 1.6 21.1 63.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.341 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011761.D

Acq: 22 Aug 2019 14:58

Tgt Ion: 75 Resp: 116954

Ion Ratio Lower Upper

75 100

53 0.4 77.1 115.7#

89 0.2 38.5 57.7#

