

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009757.D
 Acq On : 21 May 2019 18:54
 Operator : JC/SP
 Sample : K2973-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-TB-2019-1

Quant Time: May 22 07:07:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	172651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	272263	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	98347	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	115593	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
35) Dibromofluoromethane	5.50	113	84076	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
50) Toluene-d8	8.71	98	346792	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.13	95	112879	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	

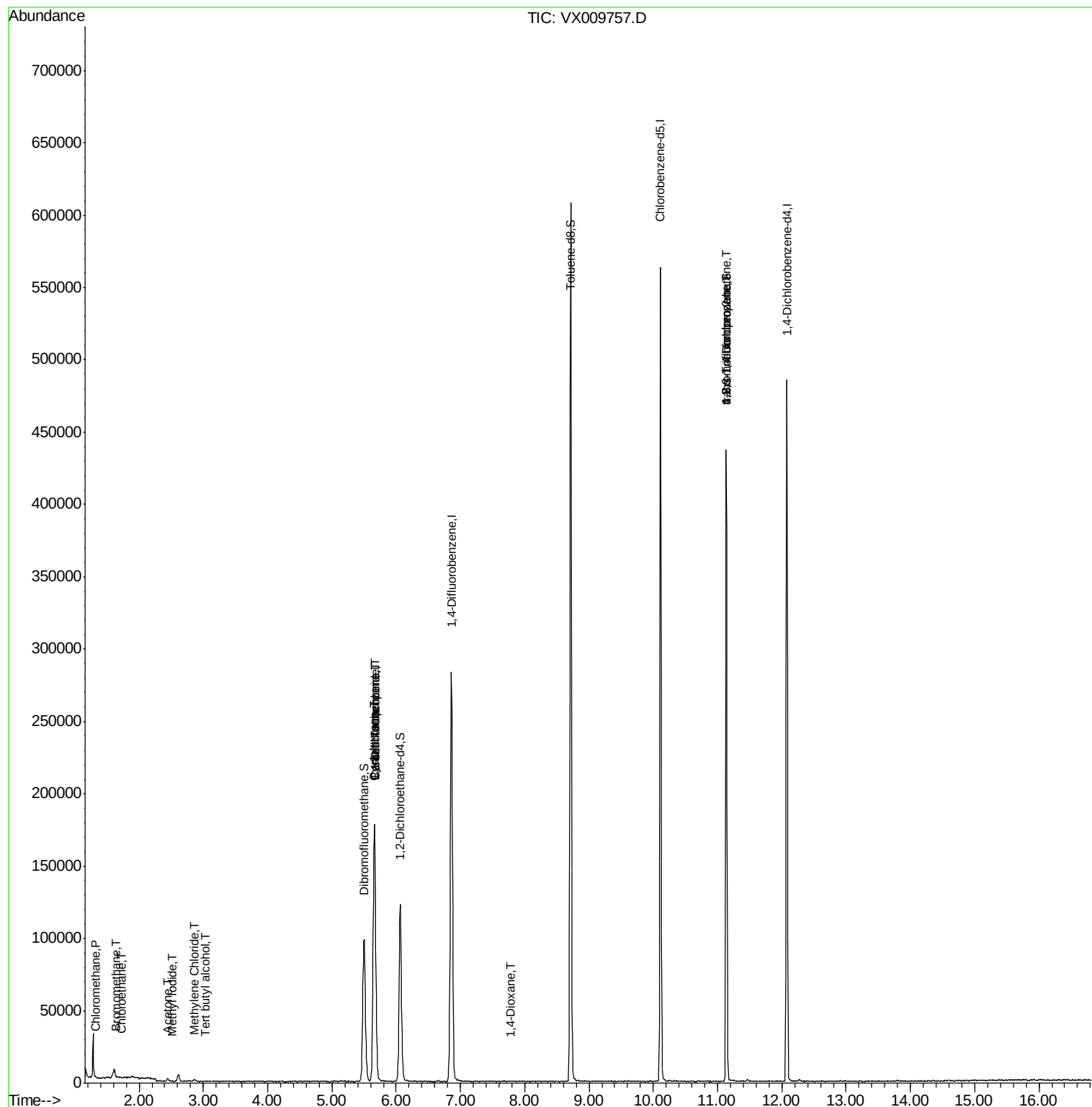
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	635	0.292	ug/l	100
5) Bromomethane	1.64	94	281	0.221	ug/l #	58
6) Chloroethane	1.73	64	274	0.201	ug/l #	43
10) Methyl Iodide	2.52	142	104	4.644	ug/l #	65
11) Tert butyl alcohol	3.03	59	191	0.350	ug/l	99
16) Acetone	2.45	43	2728	2.156	ug/l	91
20) Methylene Chloride	2.85	84	563	0.275	ug/l	86
28) Bromochloromethane	5.01	49	24	Below Cal	#	20
31) Cyclohexane	5.65	56	4073	1.169	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13539	5.351	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16293	7.088	ug/l #	16
49) 1,4-Dioxane	7.77	88	23	0.405	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	58506	25.646	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	58506	65.619	ug/l #	10

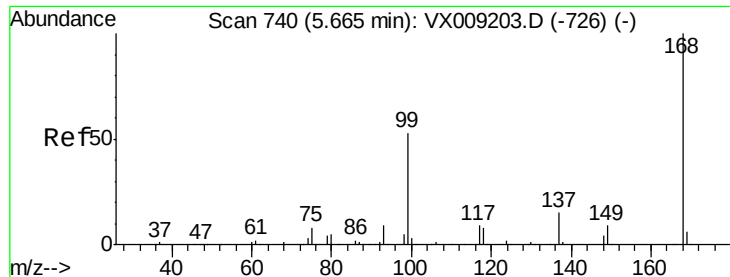
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

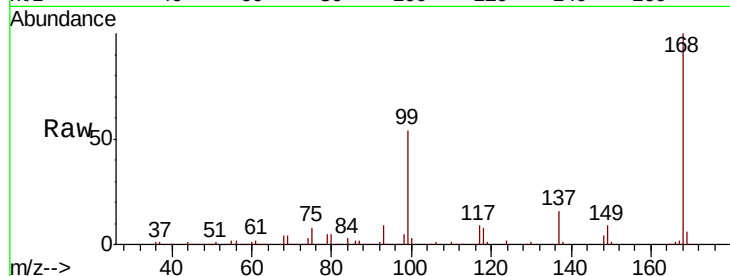
S36-TB-2019-1

Tot Ion:168 Resp: 172651

Ion Ratio Lower Upper

168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

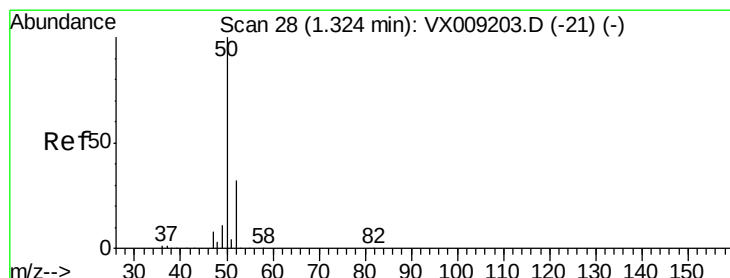
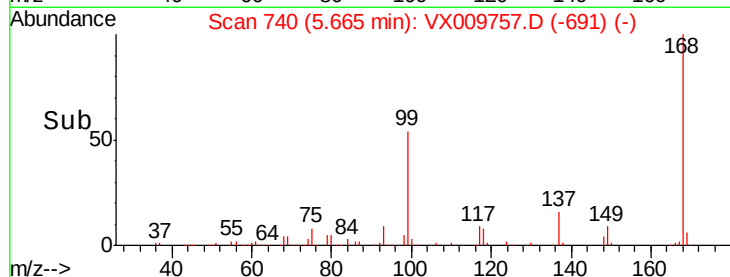
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.292 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009757.D

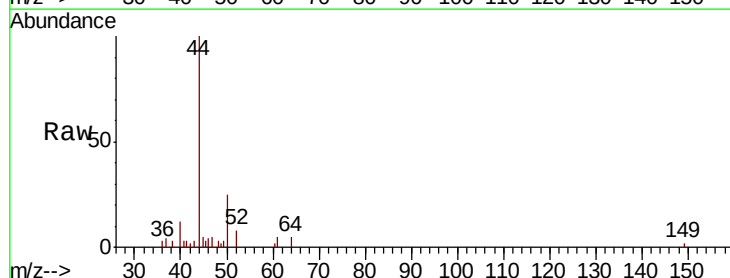
Acq: 21 May 2019 18:54

Tgt Ion: 50 Resp: 635

Ion Ratio Lower Upper

50 100

52 32.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

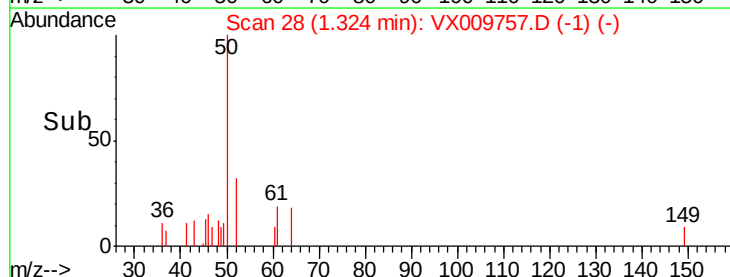
600

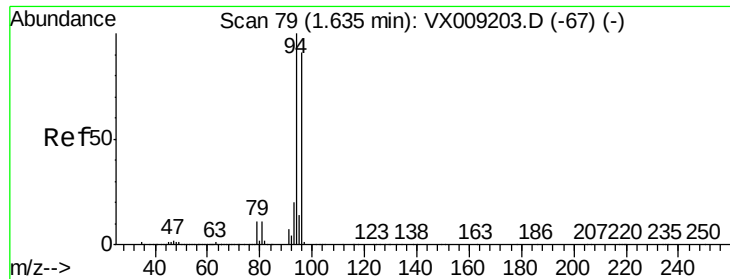
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.221 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

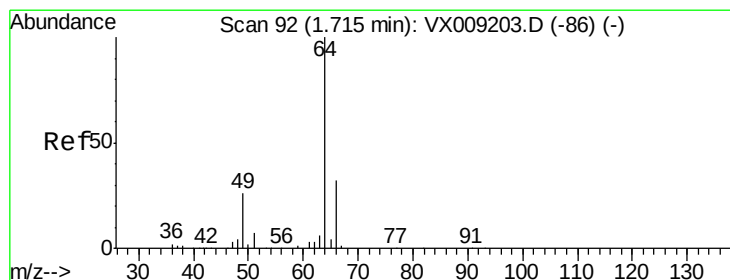
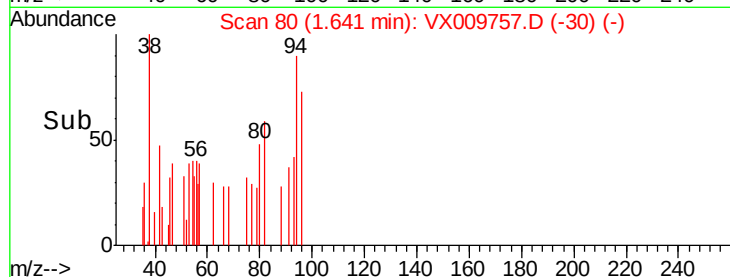
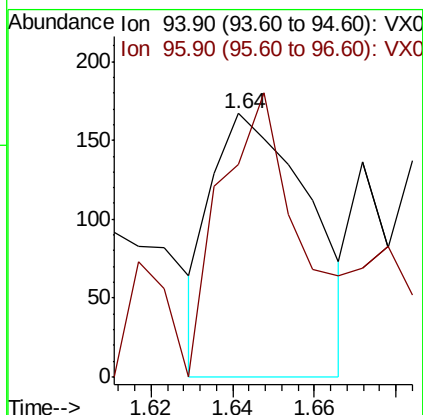
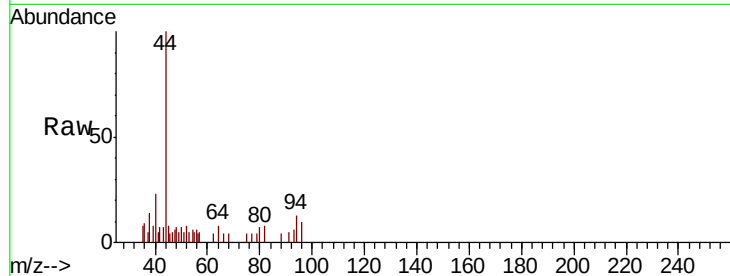
S36-TB-2019-1

Tot Ion: 94 Resp: 281

Ion Ratio Lower Upper

94 100

96 131.1 73.0 109.6#



#6

Chloroethane

Concen: 0.201 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX009757.D

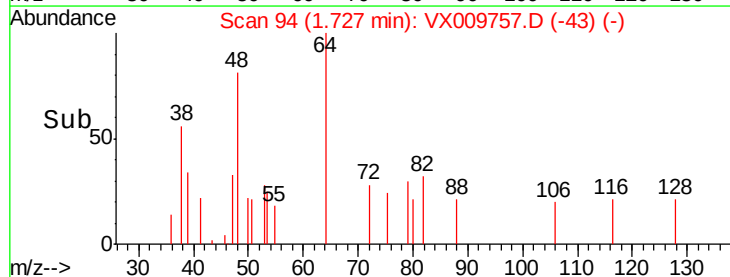
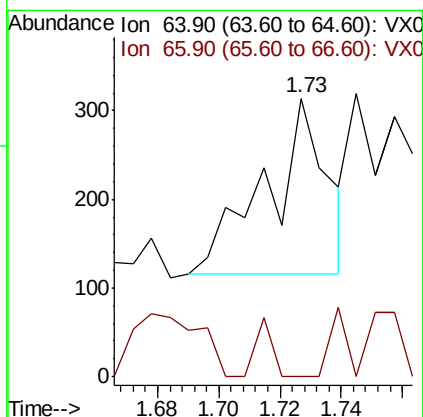
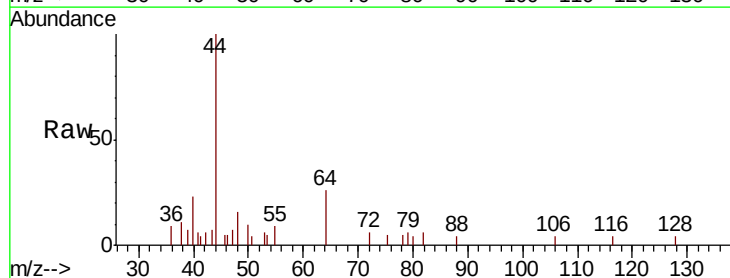
Acq: 21 May 2019 18:54

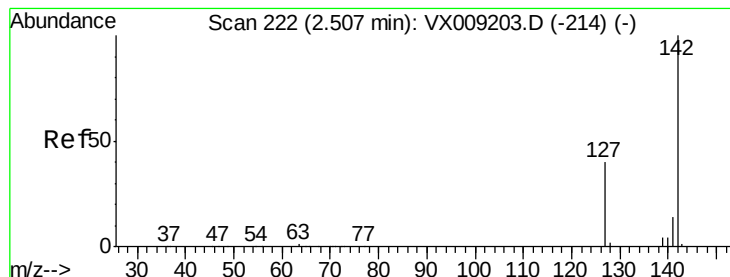
Tgt Ion: 64 Resp: 274

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#

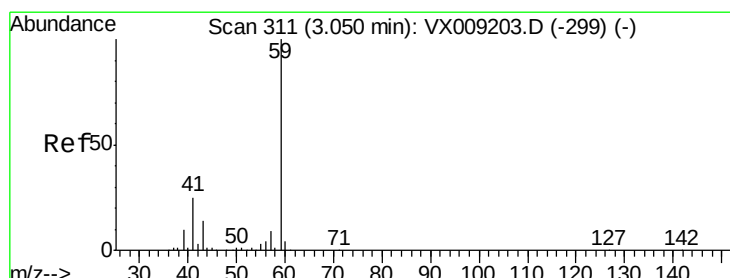
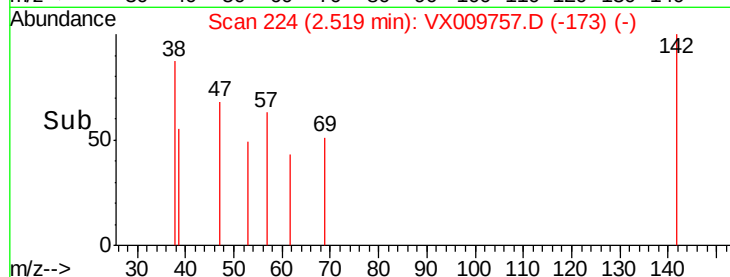
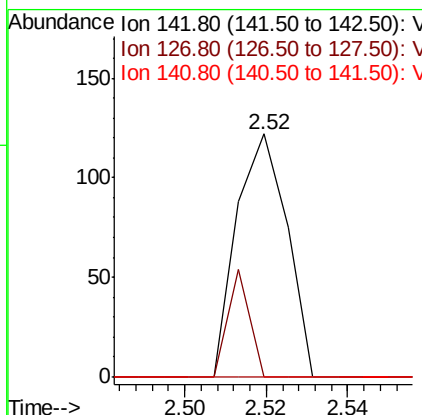
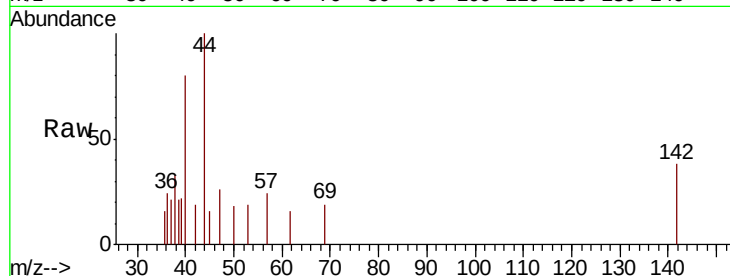




#10
Methvl Iodide
Concen: 4.644 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009757.D
Acq: 21 May 2019 18:54

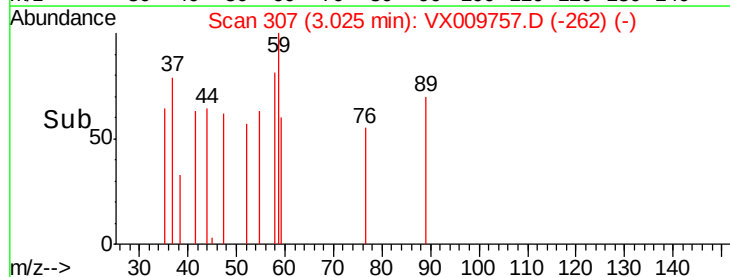
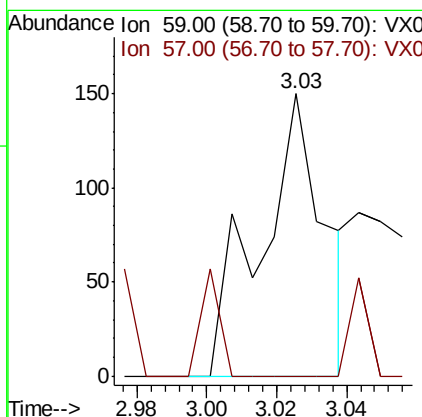
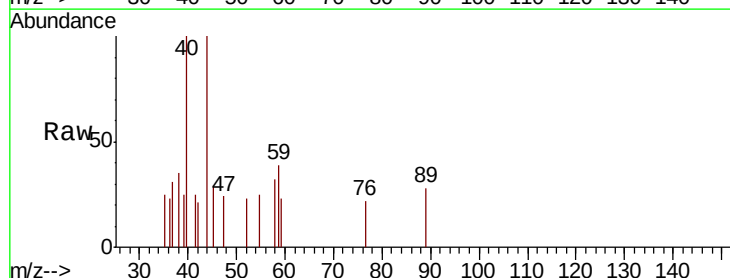
Instrument :
MSVOA_X
ClientSampleId :
S36-TB-2019-1

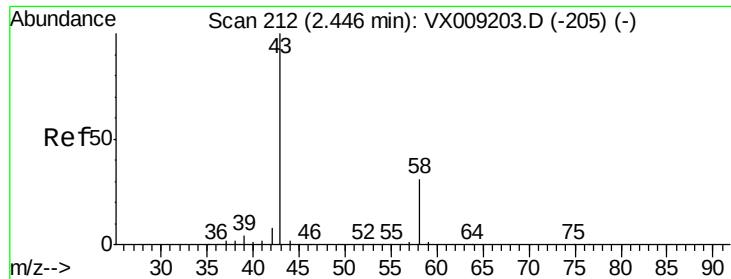
Tot Ion:142 Resp: 104
Ion Ratio Lower Upper
142 100
127 19.2 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.350 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009757.D
Acq: 21 May 2019 18:54

Tgt Ion: 59 Resp: 191
Ion Ratio Lower Upper
59 100
57 9.9 8.2 12.2





#16

Acetone

Concen: 2.156 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

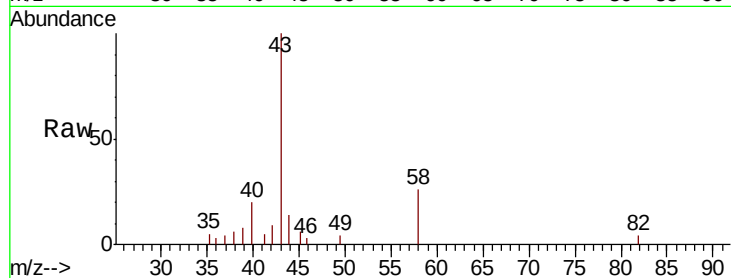
S36-TB-2019-1

Tot Ion: 43 Resp: 2728

Ion Ratio Lower Upper

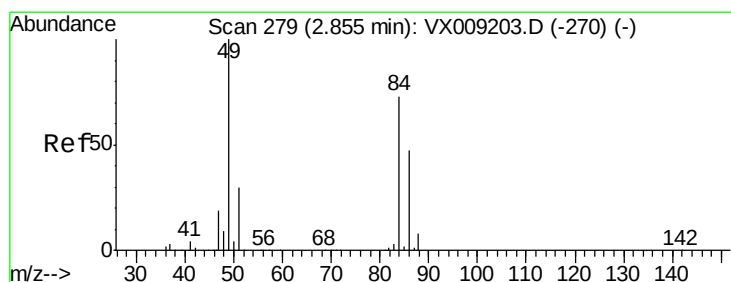
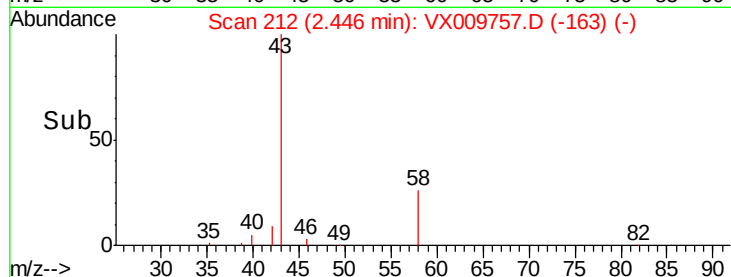
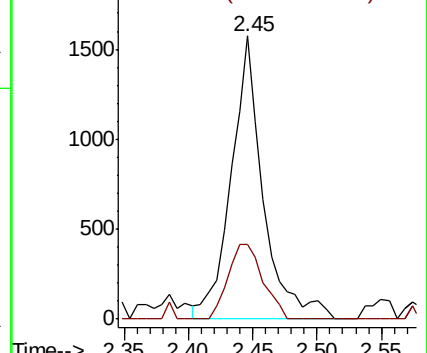
43 100

58 26.3 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.275 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Tgt Ion: 84 Resp: 563

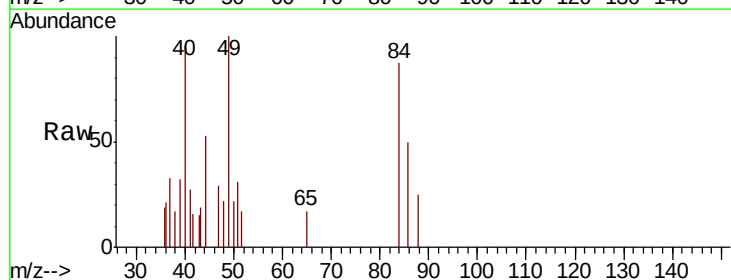
Ion Ratio Lower Upper

84 100

49 115.5 109.9 164.9

51 36.3 32.7 49.1

86 58.1 52.0 78.0

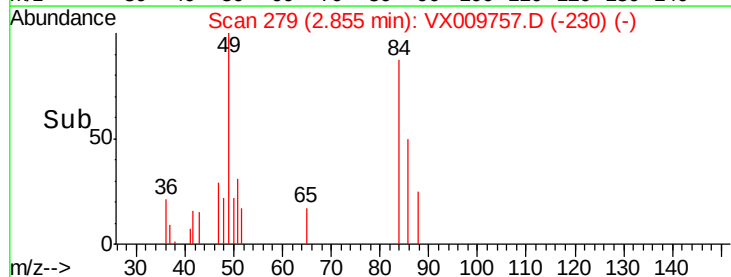
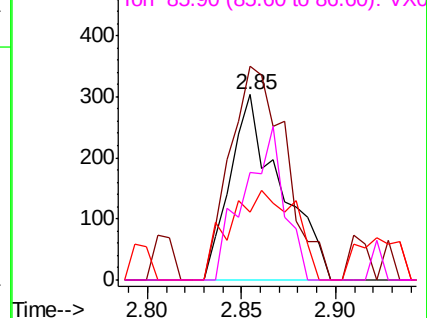


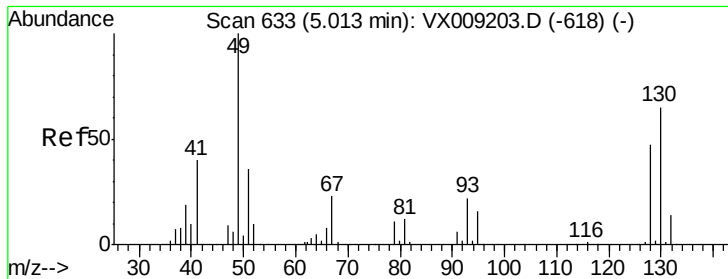
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

S36-TB-2019-1

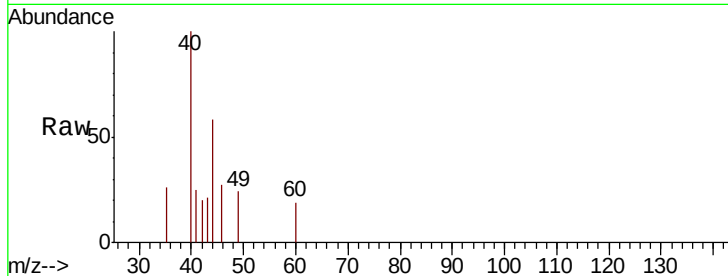
Tot Ion: 49 Resp: 24

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

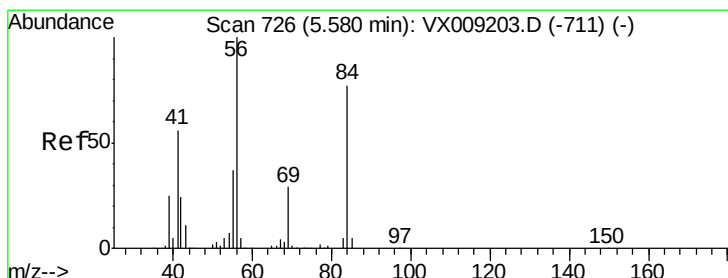
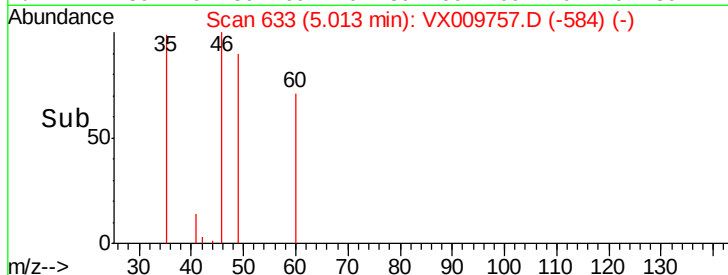
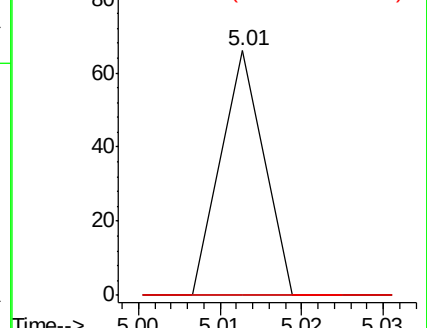
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.169 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

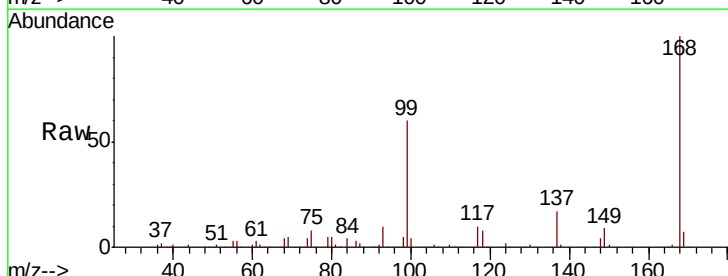
Tgt Ion: 56 Resp: 4073

Ion Ratio Lower Upper

56 100

69 178.8 23.4 35.0#

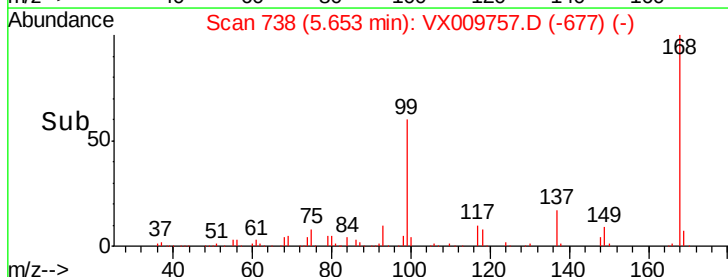
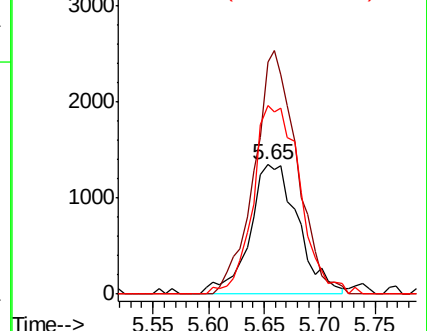
84 145.4 61.9 92.9#

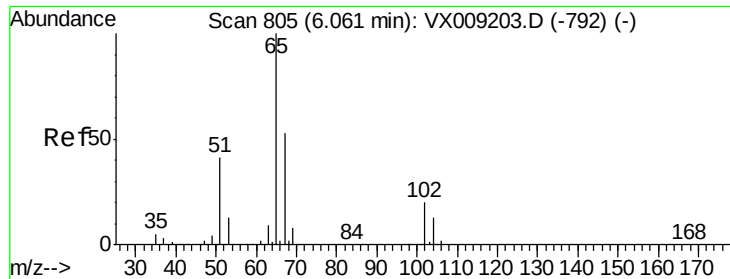


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

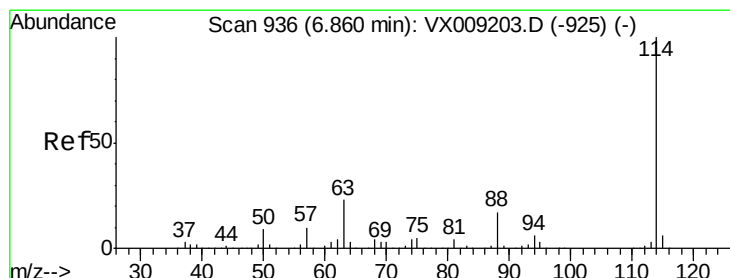
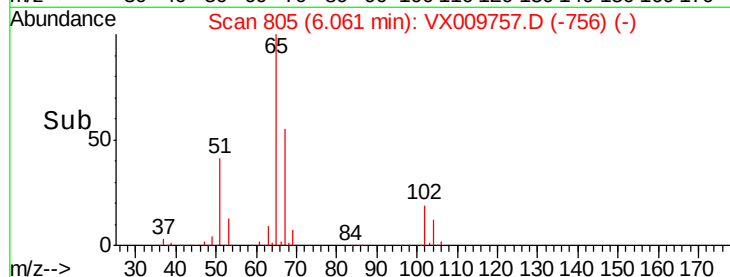
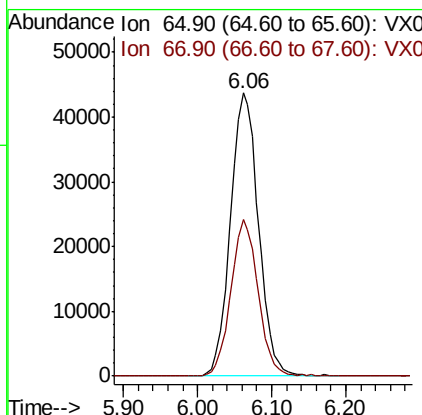
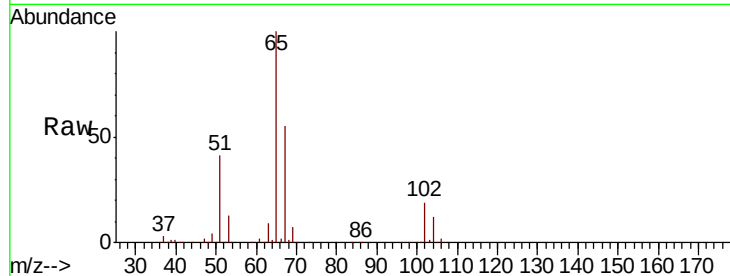




#33
 1,2-Dichloroethane-d4
 Concen: 49.045 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009757.D
 Acq: 21 May 2019 18:54

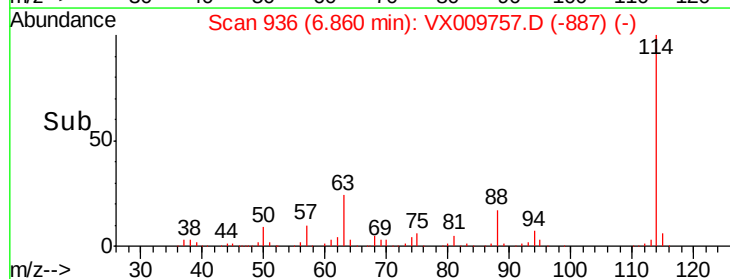
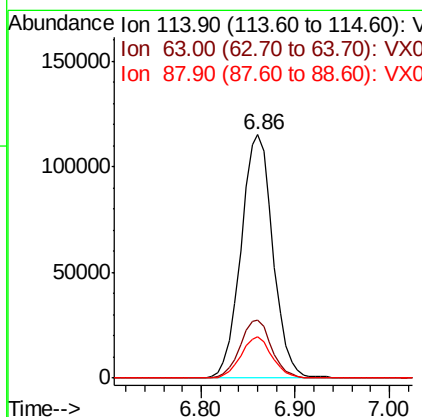
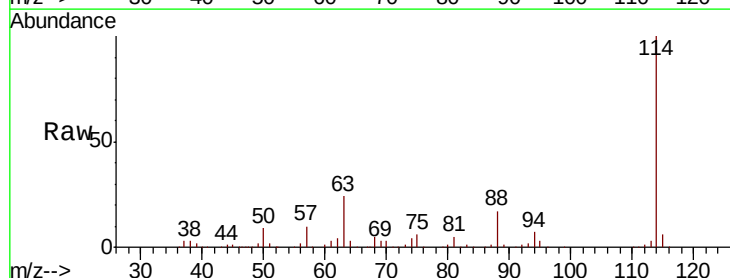
Instrument :
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 S36-TB-2019-1

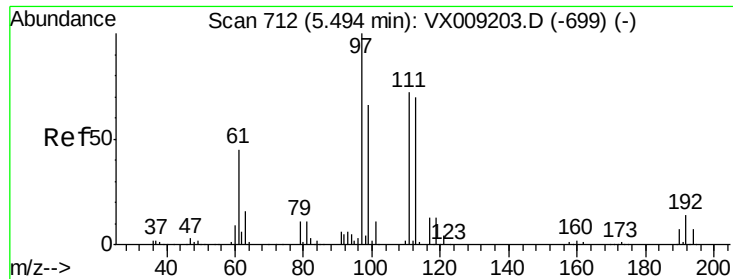
Tot Ion: 65 Resp: 115593
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009757.D
 Acq: 21 May 2019 18:54

Tgt Ion: 114 Resp: 272263
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 45.6
 88 16.9 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.123 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

S36-TB-2019-1

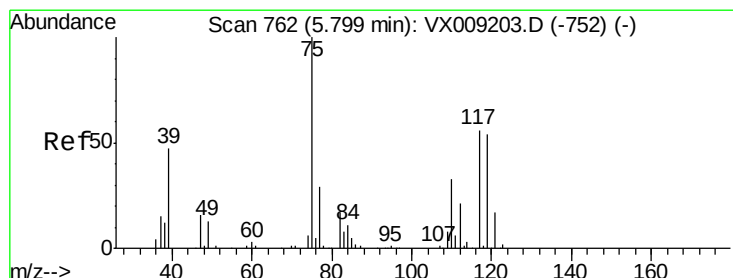
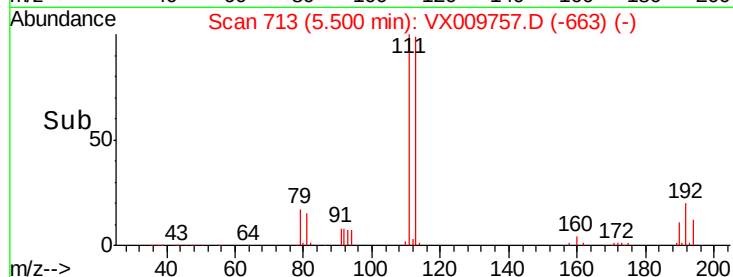
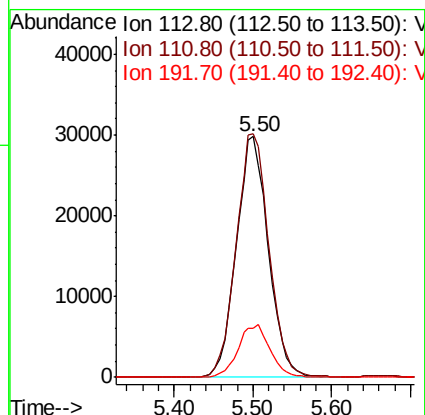
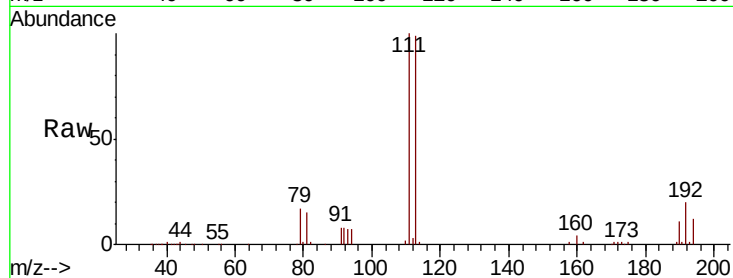
Tot Ion:113 Resp: 84076

Ion Ratio Lower Upper

113 100

111 103.7 82.8 124.2

192 21.9 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.351 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

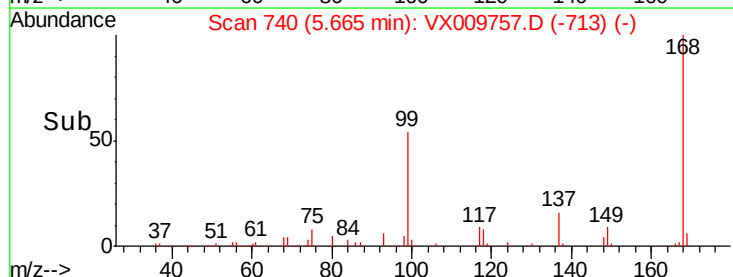
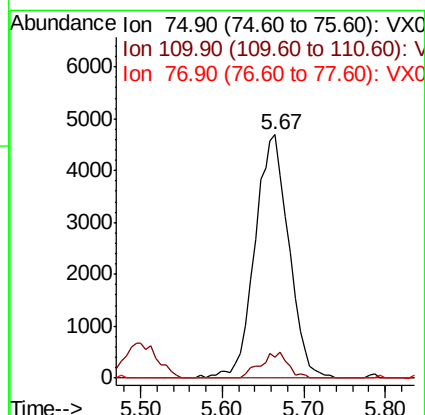
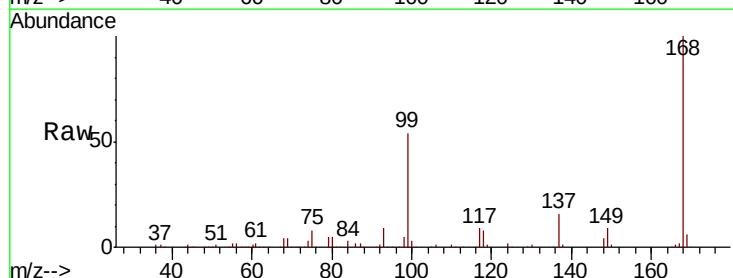
Tgt Ion: 75 Resp: 13539

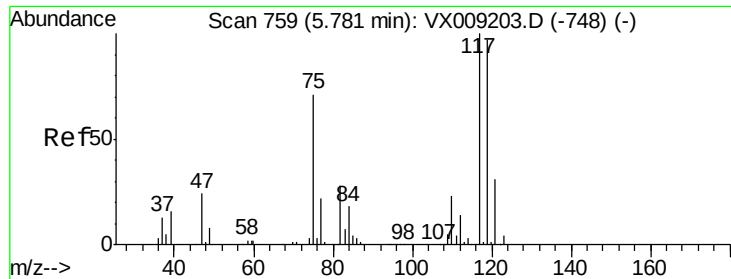
Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.6#

77 0.0 24.8 37.2#

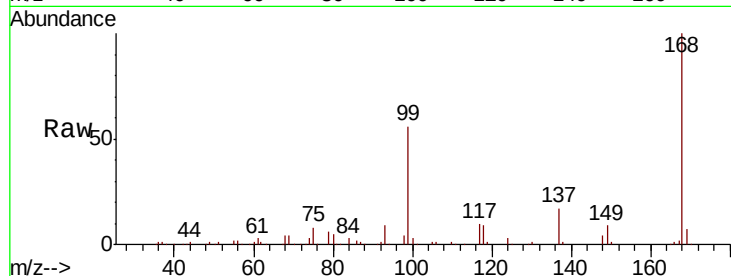




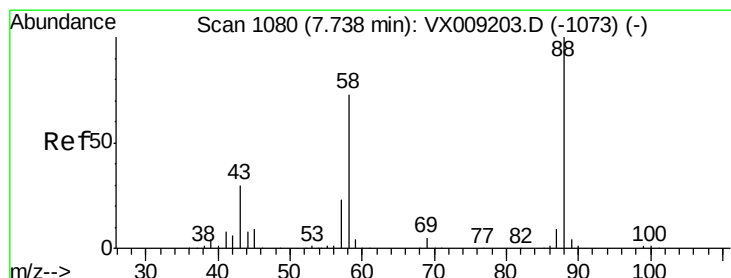
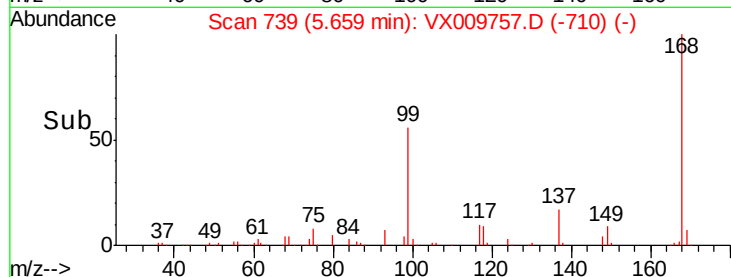
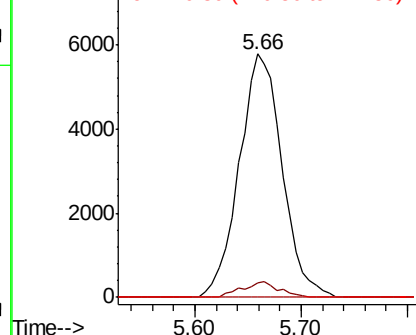
#38
Carbon Tetrachloride
Concen: 7.088 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX009757.D
Acq: 21 May 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
S36-TB-2019-1

Tot Ion: 117 Resp: 16293
Ion Ratio Lower Upper
117 100
119 5.8 77.5 116.3#
121 0.0 24.7 37.1#

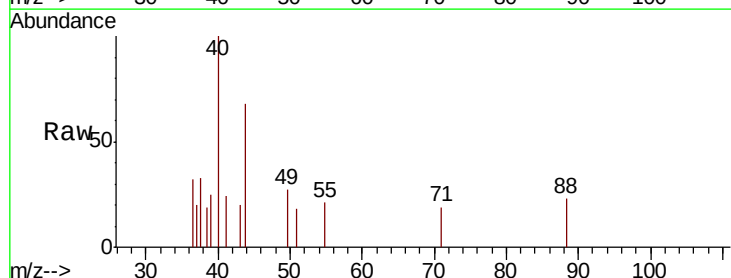


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

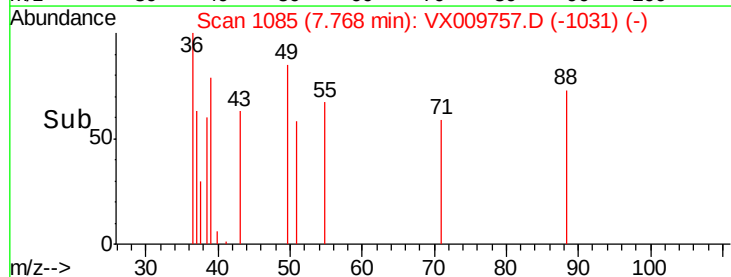
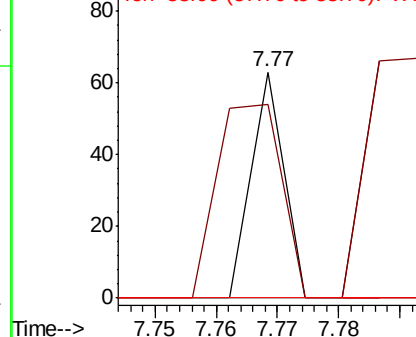


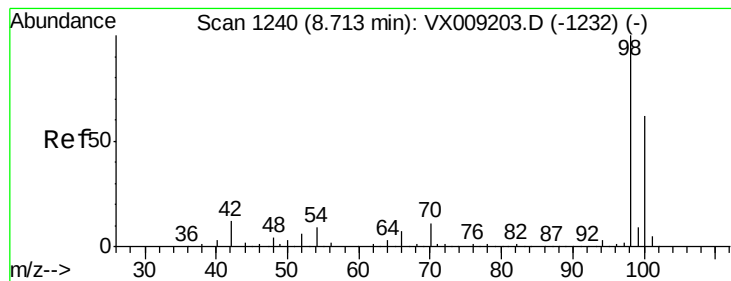
#49
1,4-Dioxane
Concen: 0.405 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VX009757.D
Acq: 21 May 2019 18:54

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 169.6 28.6 42.8#
58 0.0 61.7 92.5#



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





#50

Toluene-d8

Concen: 50.187 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

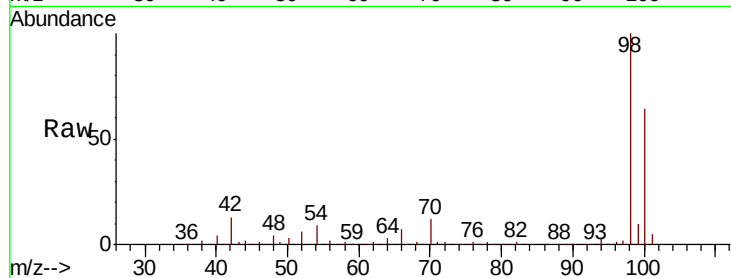
S36-TB-2019-1

Tot Ion: 98 Resp: 346792

Ion Ratio Lower Upper

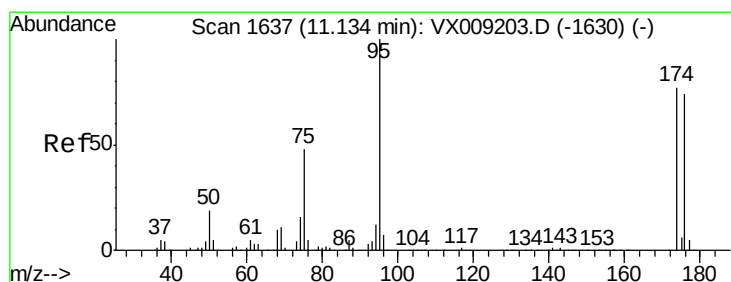
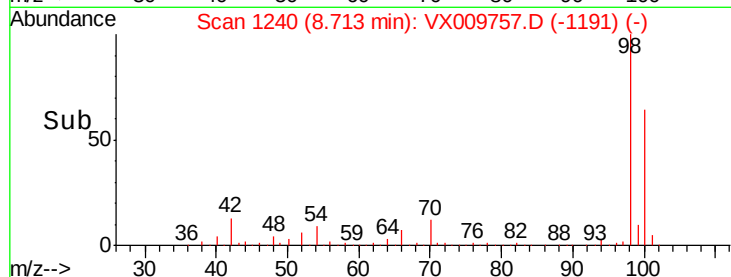
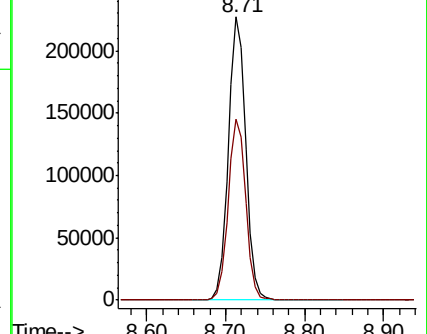
98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 44.957 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

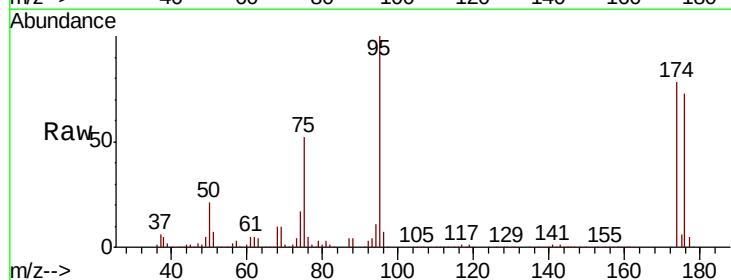
Tgt Ion: 95 Resp: 112879

Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.6

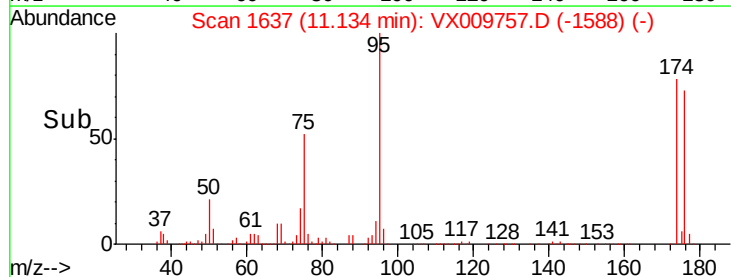
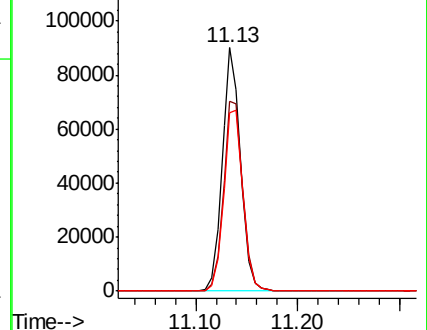
176 78.5 0.0 159.2

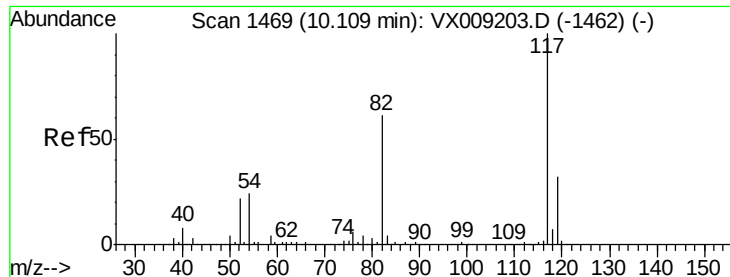


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

S36-TB-2019-1

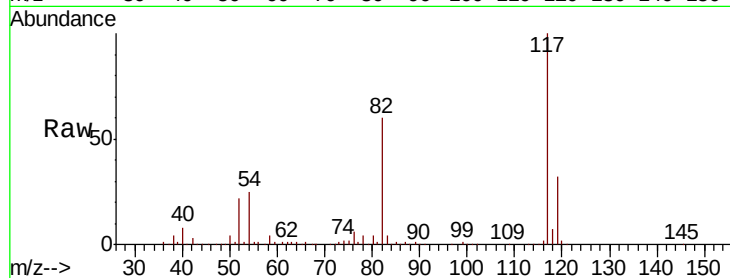
Tot Ion:117 Resp: 240516

Ion Ratio Lower Upper

117 100

82 59.9 48.8 73.2

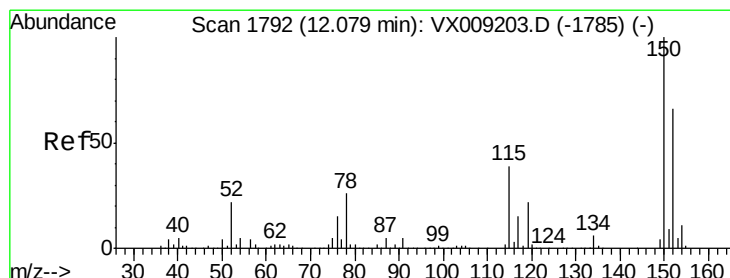
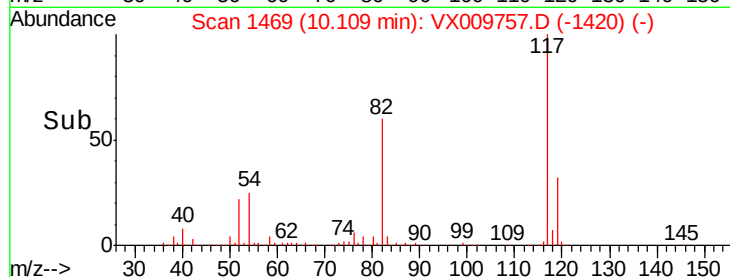
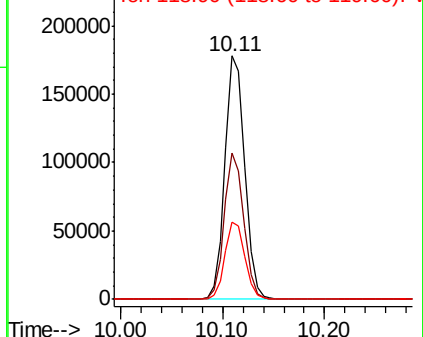
119 31.8 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

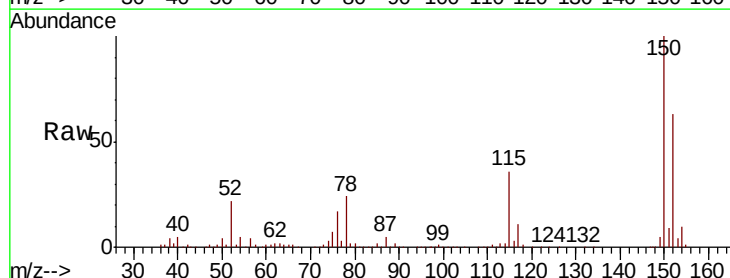
Tgt Ion:152 Resp: 98347

Ion Ratio Lower Upper

152 100

115 58.9 41.2 123.6

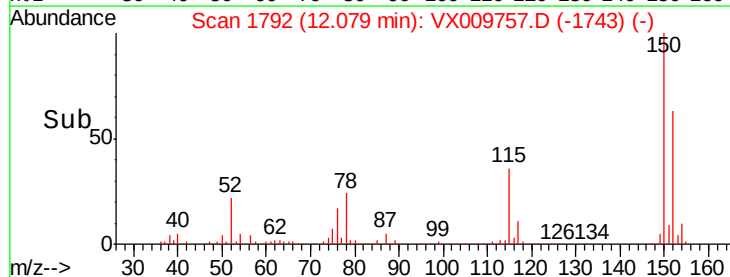
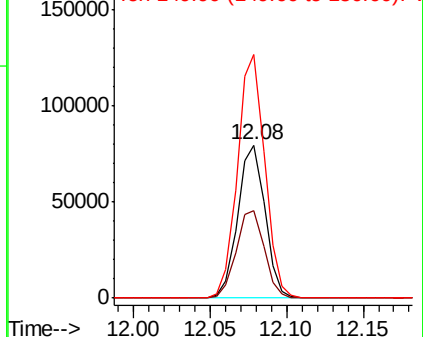
150 159.1 0.0 346.4

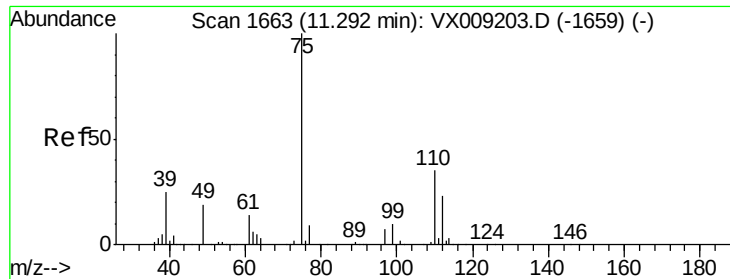


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.646 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

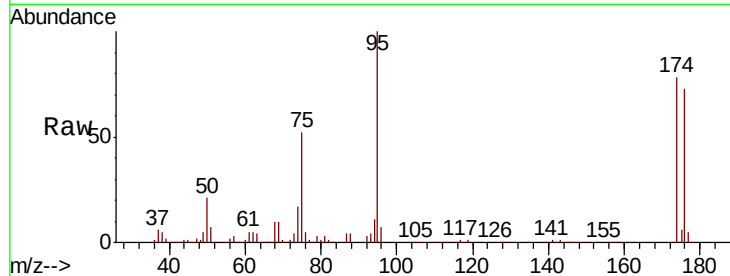
S36-TB-2019-1

Tot Ion: 75 Resp: 58506

Ion Ratio Lower Upper

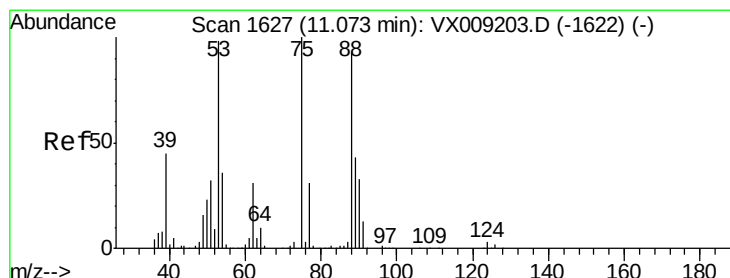
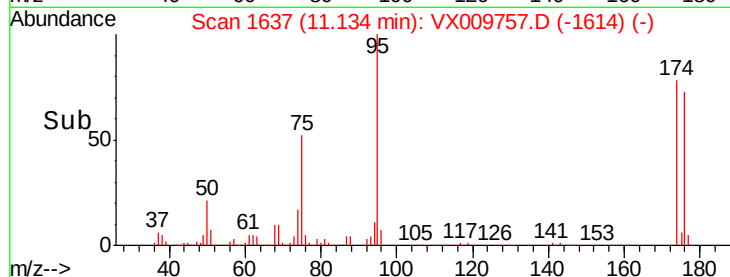
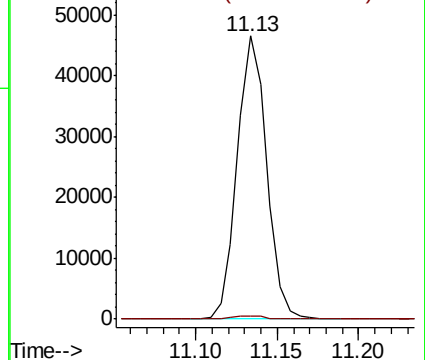
75 100

77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 65.619 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009757.D

Acq: 21 May 2019 18:54

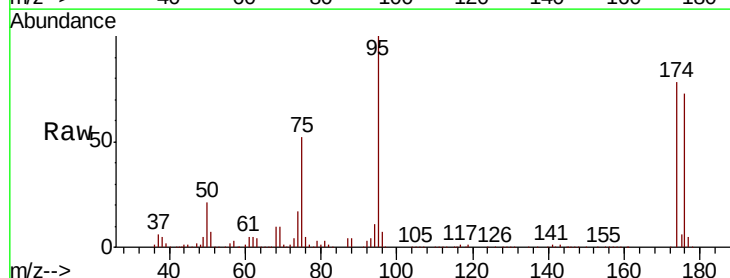
Tgt Ion: 75 Resp: 58506

Ion Ratio Lower Upper

75 100

53 0.3 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

