

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021919\
 Data File : VX007606.D
 Acq On : 19 Feb 2019 12:04
 Operator : JC/SP
 Sample : K1518-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CABLE-BRIDGE-FOUNDATION-D-3

Quant Time: Feb 20 04:02:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	450937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	726981	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	716504	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	335578	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	255346	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	
35) Dibromofluoromethane	5.51	113	238692	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
50) Toluene-d8	8.71	98	904471	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
62) 4-Bromofluorobenzene	11.13	95	312156	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	

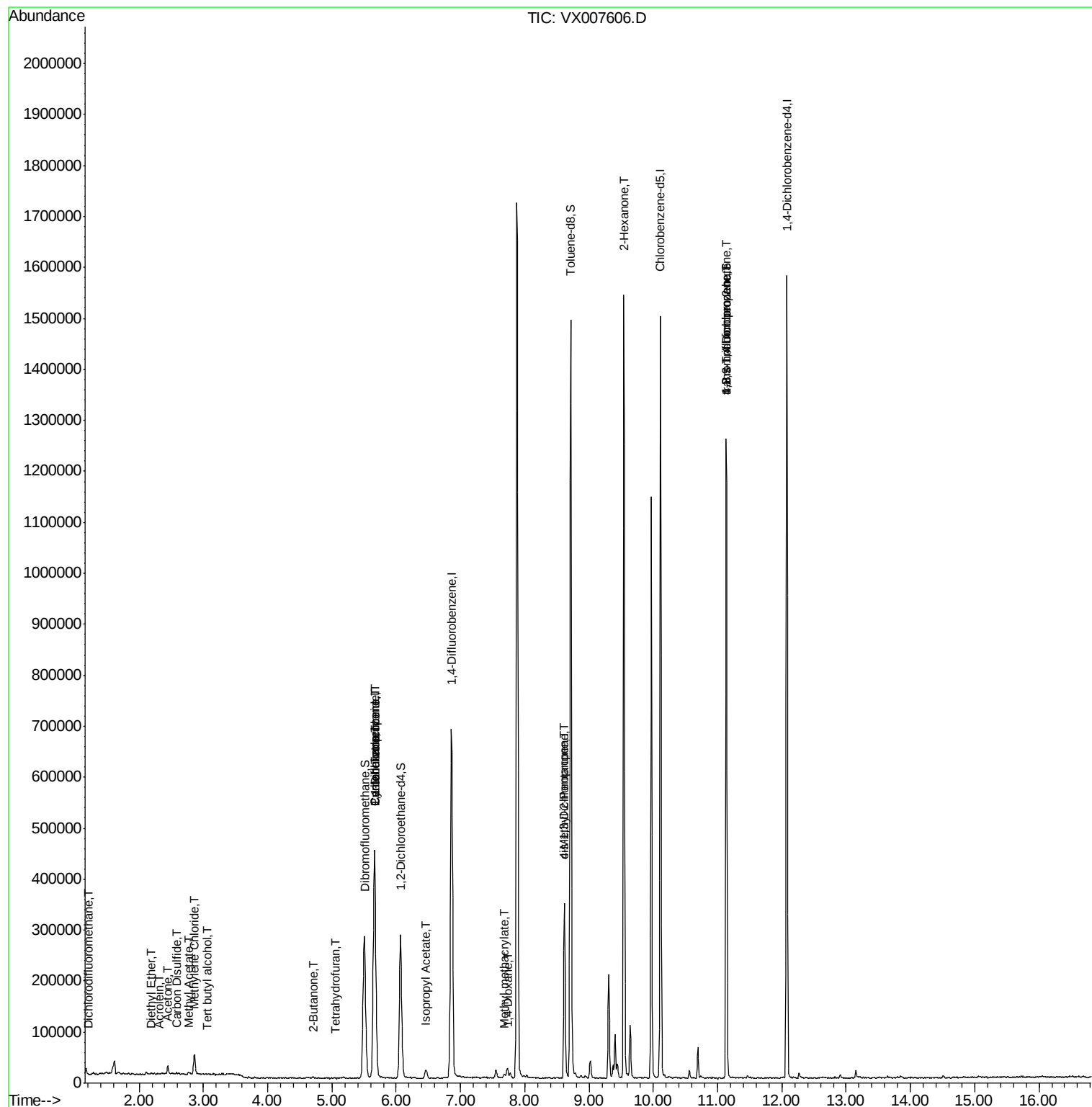
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	302	0.232	ug/l	83
5) Bromomethane	1.66	94	1327	Below Cal	#	39
8) Diethyl Ether	2.19	74	1557	0.531	ug/l	83
11) Tert butyl alcohol	3.07	59	1284	1.296	ug/l #	92
13) Acrolein	2.31	56	287	0.618	ug/l #	14
16) Acetone	2.45	43	16547	7.547	ug/l	99
17) Carbon Disulfide	2.57	76	1611	2.258	ug/l #	86
18) Methyl Acetate	2.78	43	3271	1.159	ug/l #	75
20) Methylene Chloride	2.85	84	18358	3.735	ug/l	94
25) 2-Butanone	4.71	43	5972	1.914	ug/l #	88
29) Tetrahydrofuran	5.06	42	424	0.216	ug/l	89
31) Cyclohexane	5.67	56	7940	1.193	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	29533	4.528	ug/l #	49
38) Carbon Tetrachloride	5.67	117	41698	6.589	ug/l #	16
43) Isopropyl Acetate	6.47	43	22894	2.249	ug/l	95
48) Methyl methacrylate	7.68	41	11371	2.234	ug/l #	14
49) 1,4-Dioxane	7.74	88	29	7.128	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	108880	16.251	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	54156	7.731	ug/l #	63
59) 2-Hexanone	9.54	43	165226	31.691	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	148092	22.688	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	148092	68.424	ug/l #	9

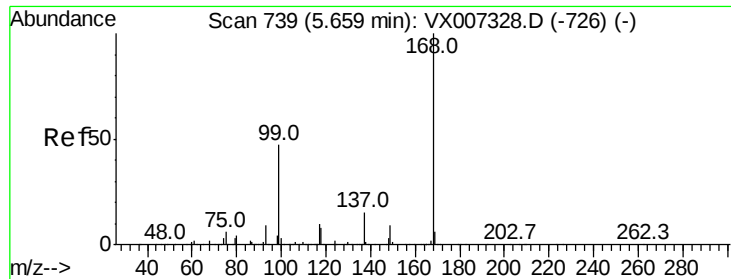
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

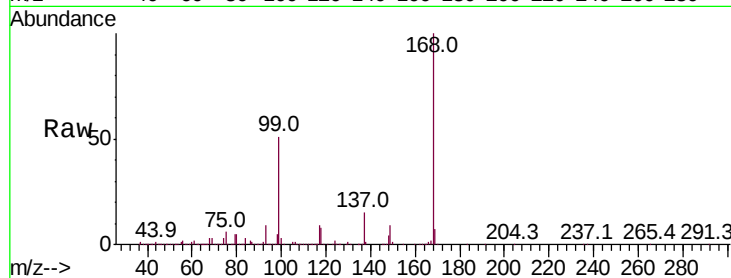
CABLE-BRIDGE-FOUNDATION-D-3

Tot Ion:168 Resp: 450937

Ion Ratio Lower Upper

168 100

99 50.9 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

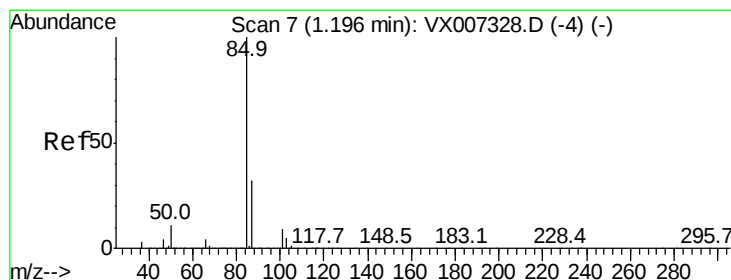
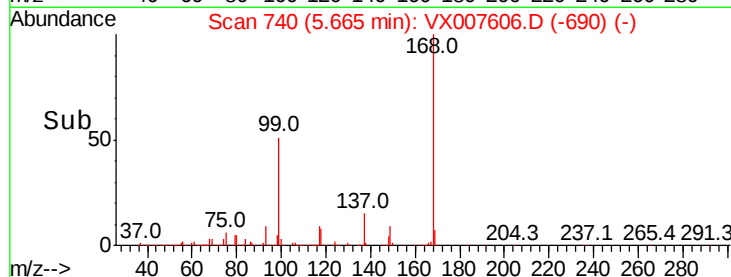
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.232 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.02 min

Lab File: VX007606.D

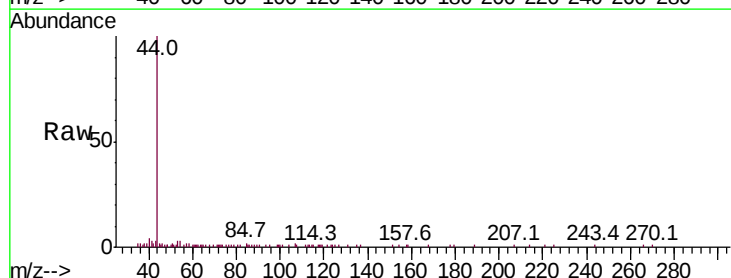
Acq: 19 Feb 2019 12:04

Tgt Ion: 85 Resp: 302

Ion Ratio Lower Upper

85 100

87 22.2 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

250

200

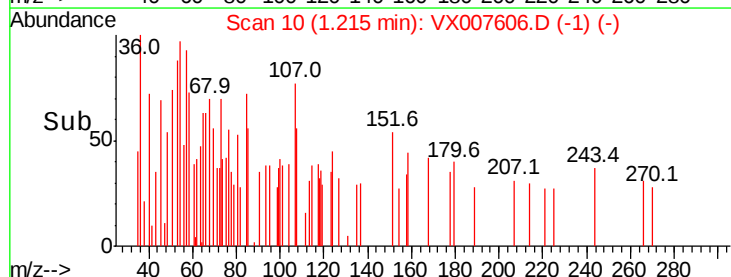
150

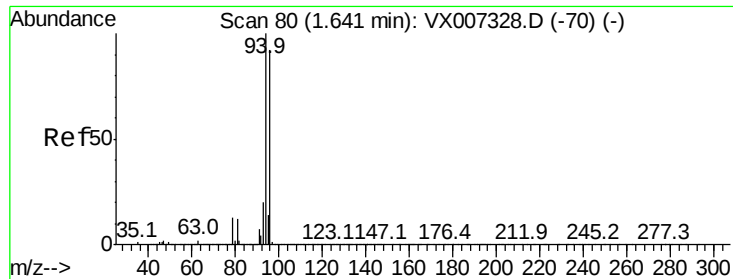
100

50

0

Time--> 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

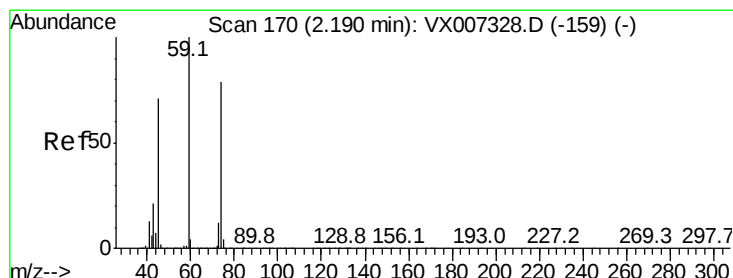
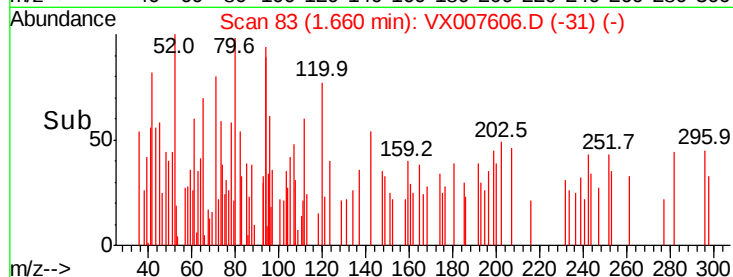
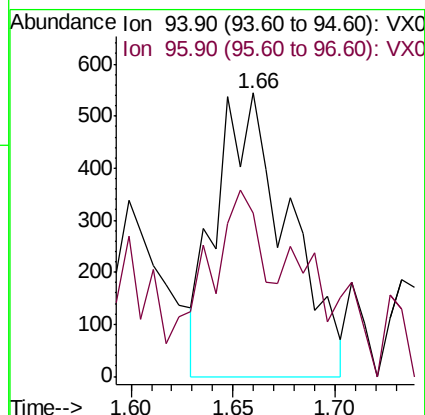
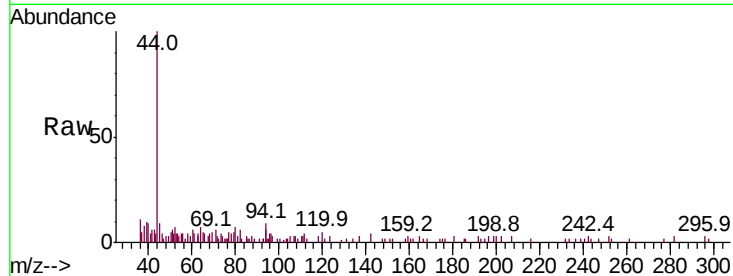
CABLE-BRIDGE-FOUNDATION-D-3

Tot Ion: 94 Resp: 1327

Ion Ratio Lower Upper

94 100

96 34.0 73.9 110.9#



#8

Diethyl Ether

Concen: 0.531 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX007606.D

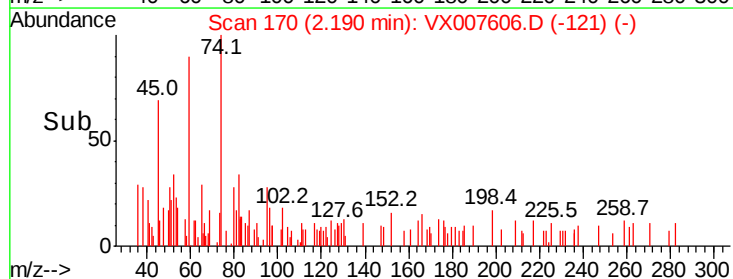
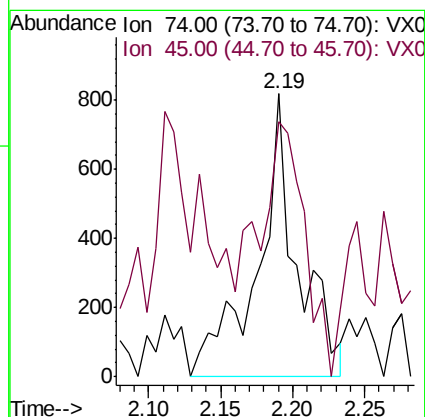
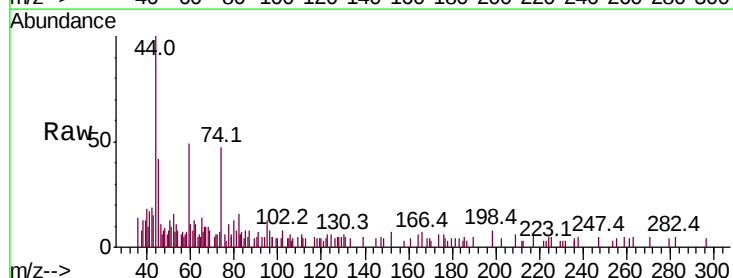
Acq: 19 Feb 2019 12:04

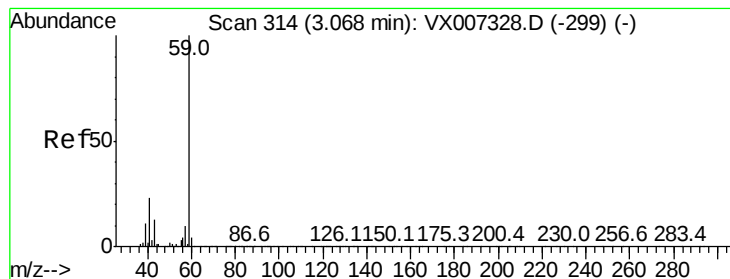
Tgt Ion: 74 Resp: 1557

Ion Ratio Lower Upper

74 100

45 107.8 45.7 137.1



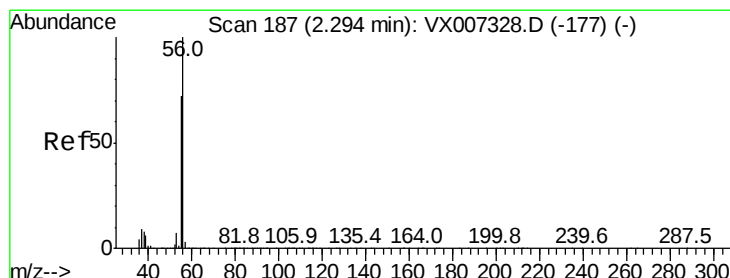
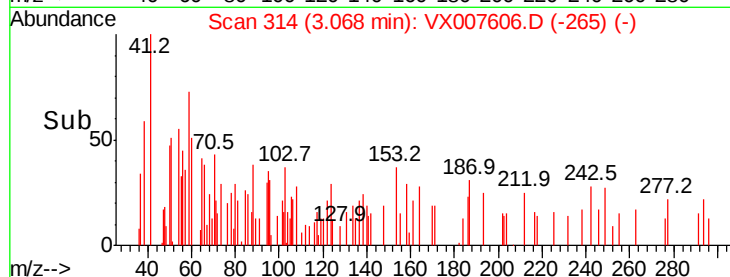
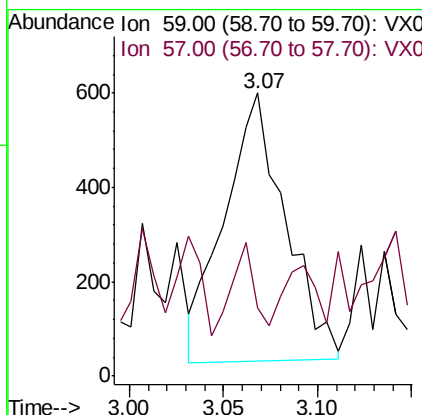
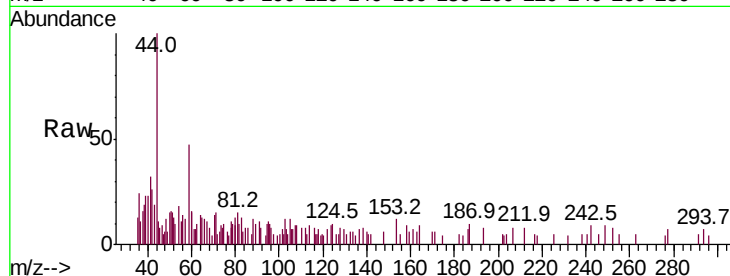


#11

Tert butyl alcohol
Concen: 1.296 ug/l
RT: 3.07 min Scan# 314
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-3

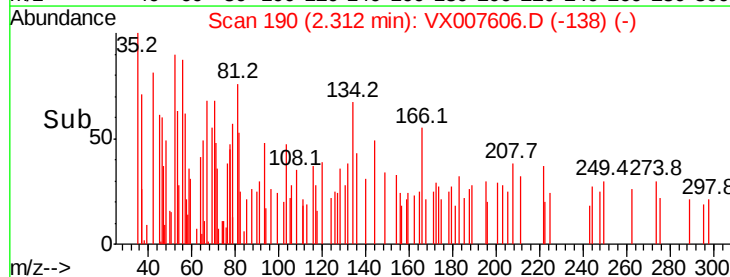
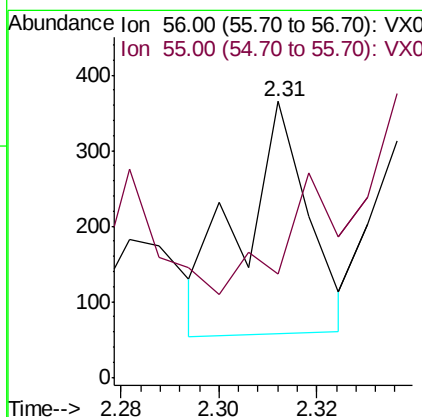
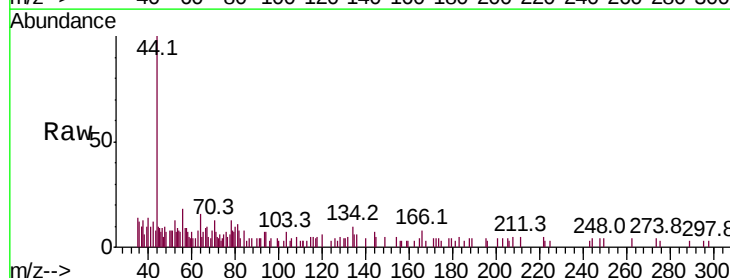
Tot Ion: 59 Resp: 1284
Ion Ratio Lower Upper
59 100
57 13.1 8.1 12.1#

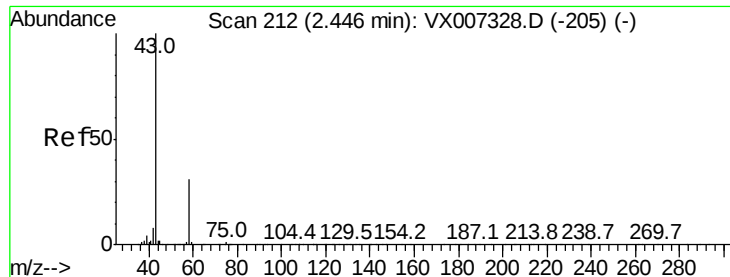


#13

Acrolein
Concen: 0.618 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

Tgt Ion: 56 Resp: 287
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#

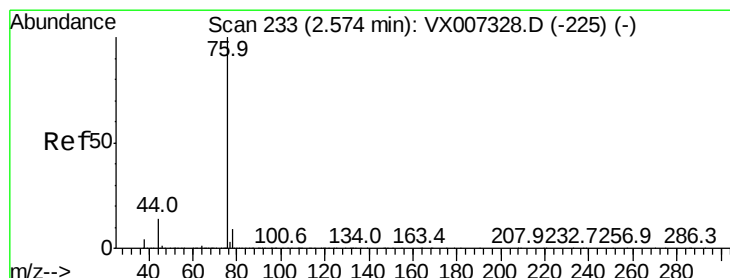
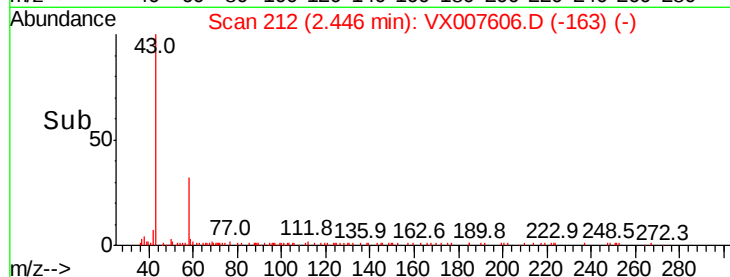
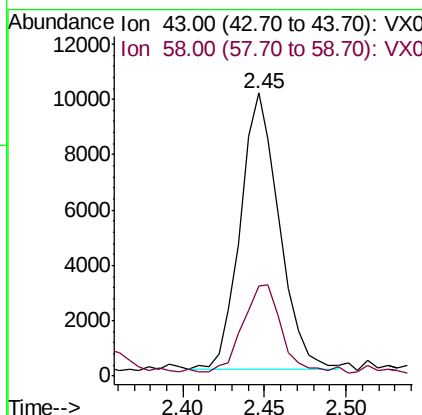
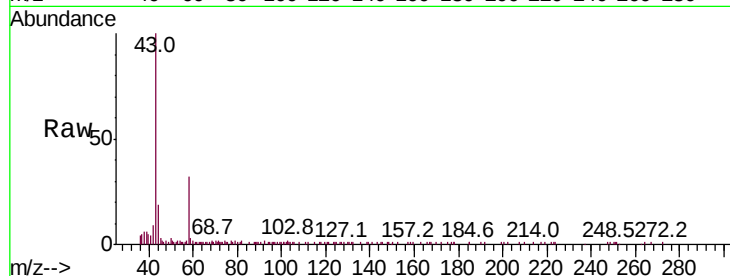




#16
Acetone
Concen: 7.547 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

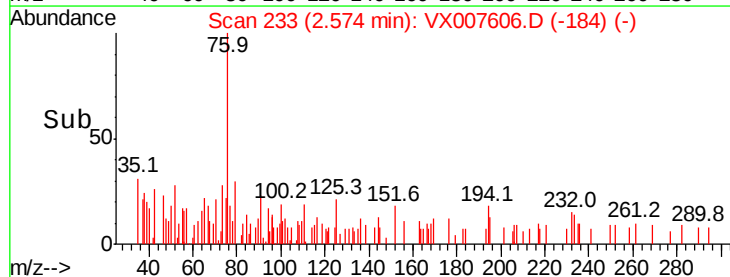
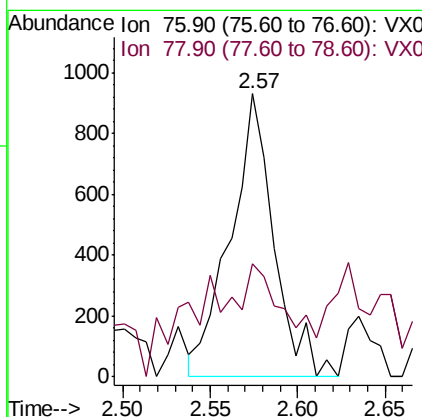
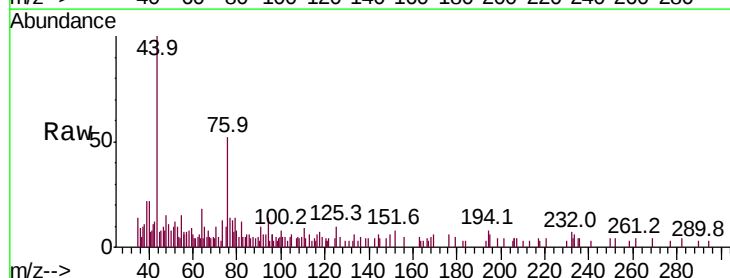
Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-3

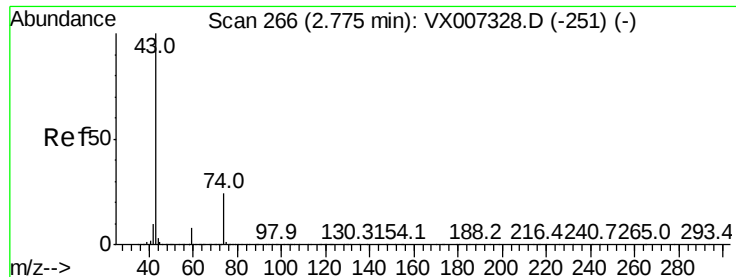
Tot Ion: 43 Resp: 16547
Ion Ratio Lower Upper
43 100
58 30.3 24.9 37.3



#17
Carbon Disulfide
Concen: 2.258 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

Tgt Ion: 76 Resp: 1611
Ion Ratio Lower Upper
76 100
78 13.9 7.1 10.7#

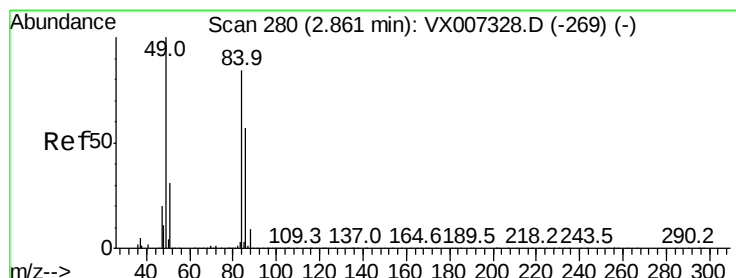
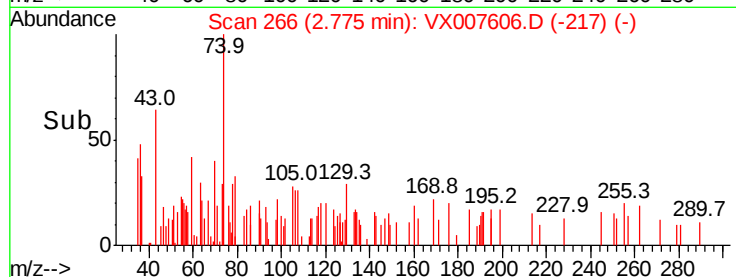
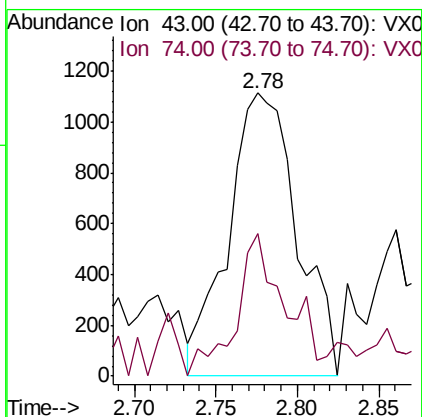
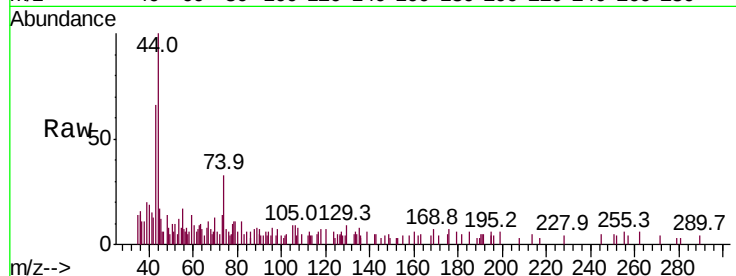




#18
Methyl Acetate
Concen: 1.159 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

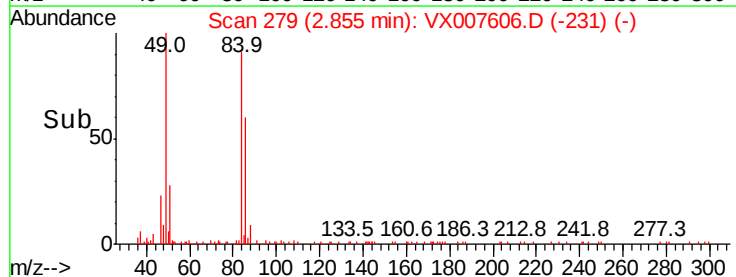
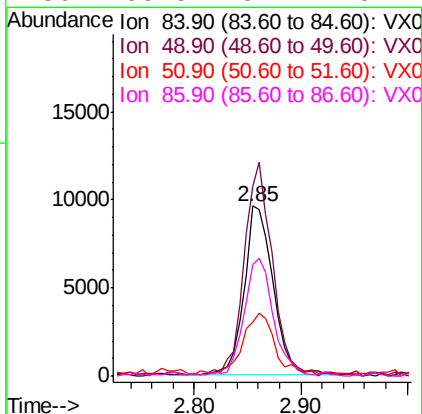
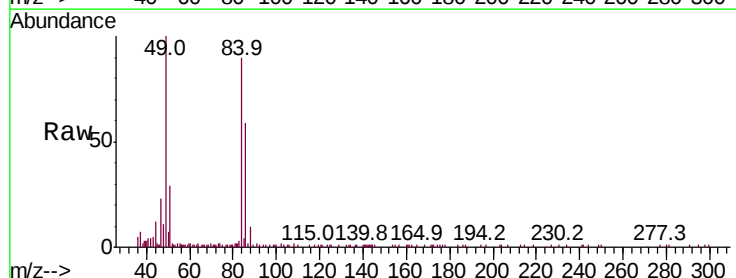
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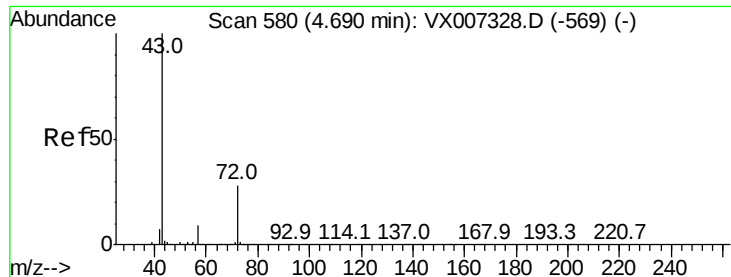
Tot Ion: 43 Resp: 3271
Ion Ratio Lower Upper
43 100
74 36.7 19.4 29.2#



#20
Methylene Chloride
Concen: 3.735 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

Tgt Ion: 84 Resp: 18358
Ion Ratio Lower Upper
84 100
49 111.2 94.8 142.2
51 30.5 29.8 44.8
86 65.5 54.1 81.1





#25

2-Butanone

Concen: 1.914 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

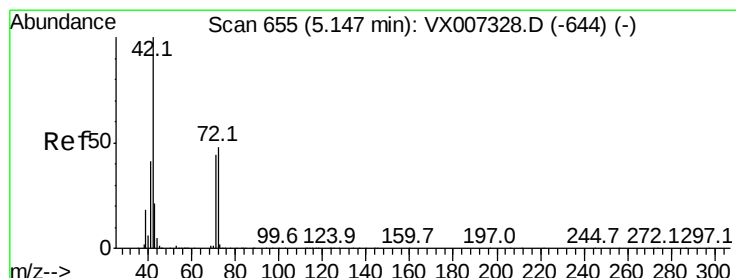
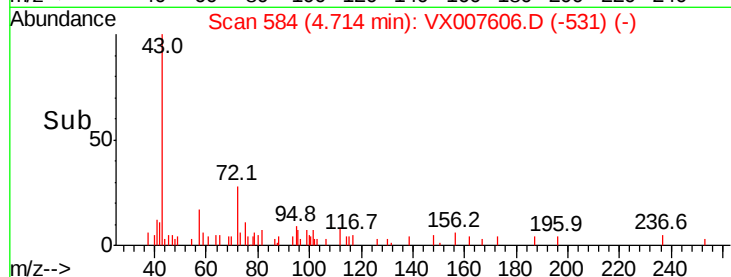
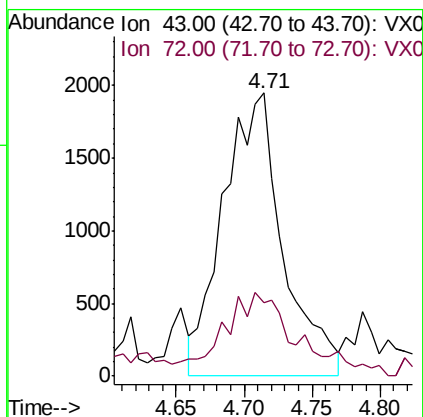
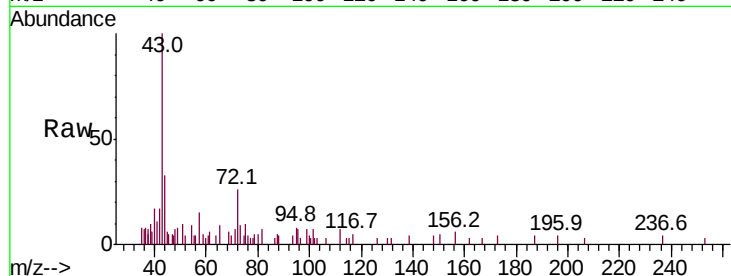
CABLE-BRIDGE-FOUNDATION-D-3

Tot Ion: 43 Resp: 5972

Ion Ratio Lower Upper

43 100

72 21.5 22.2 33.2#



#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 5.06 min Scan# 640

Delta R.T. -0.09 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

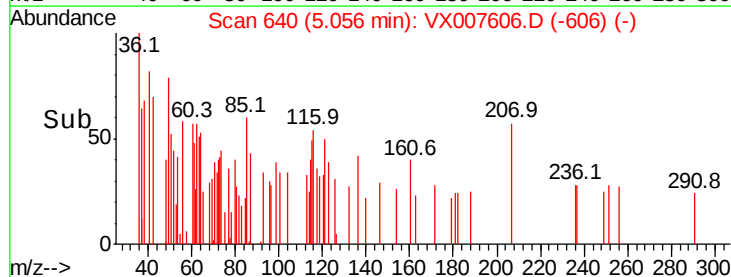
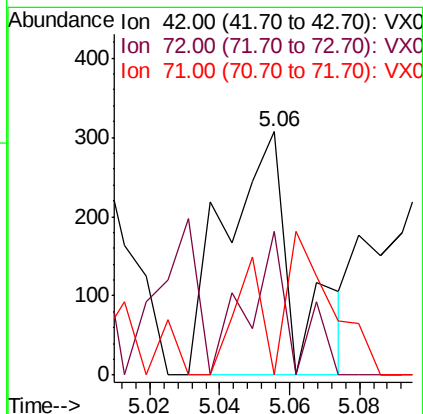
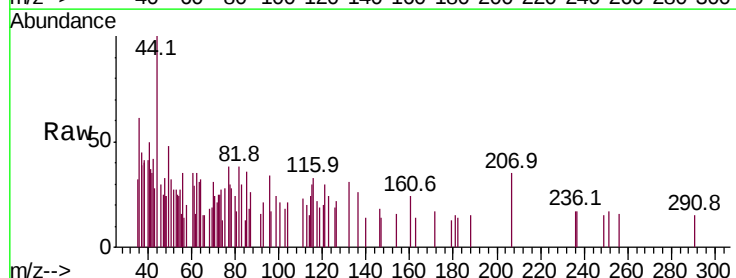
Tgt Ion: 42 Resp: 424

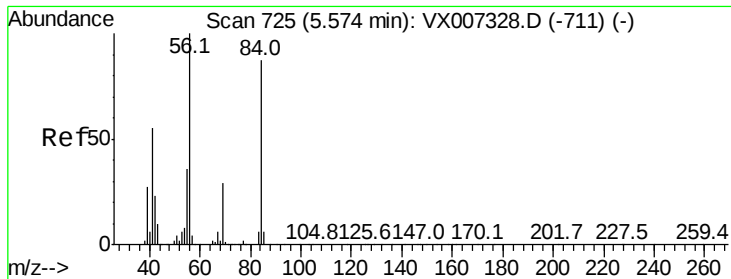
Ion Ratio Lower Upper

42 100

72 37.7 37.6 56.4

71 38.0 34.6 51.8

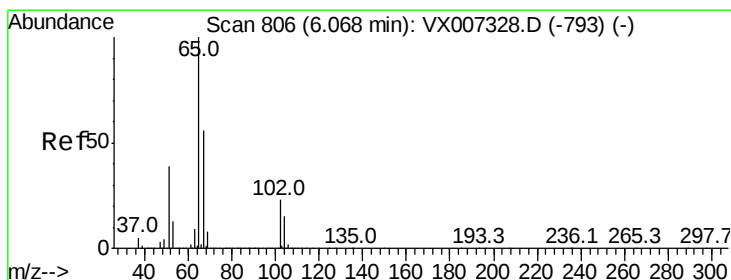
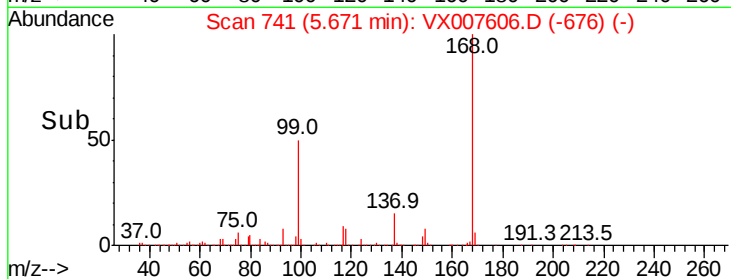
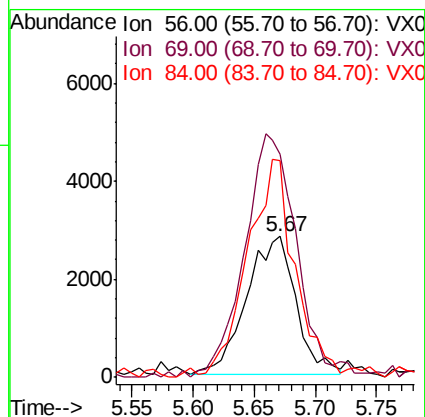
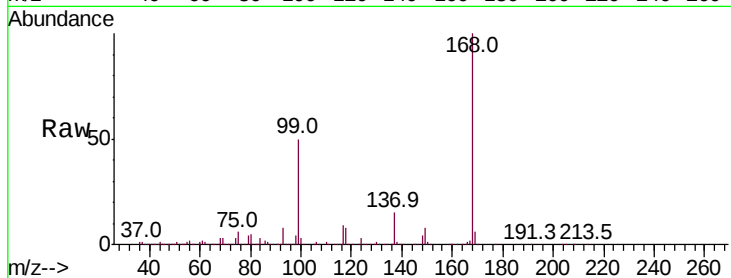




#31
Cyclohexane
Concen: 1.193 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

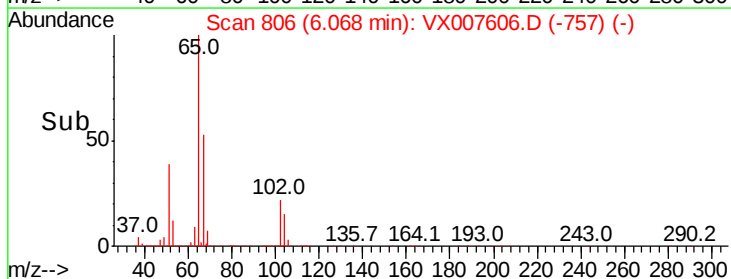
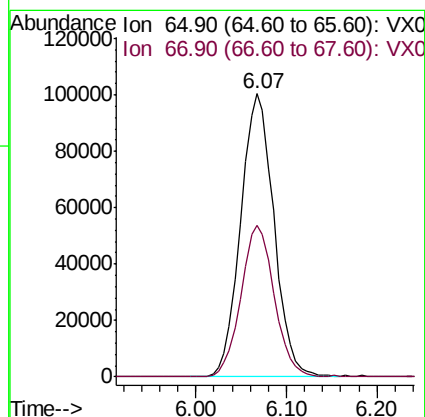
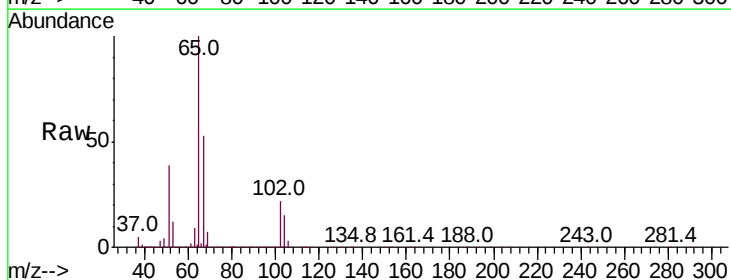
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CABLE-BRIDGE-FOUNDATION-D-3

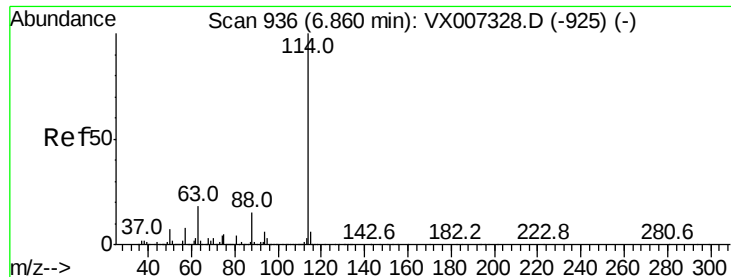
Tot Ion: 56 Resp: 7940
Ion Ratio Lower Upper
56 100
69 161.2 23.0 34.6#
84 153.8 69.8 104.6#



#33
1,2-Dichloroethane-d4
Concen: 53.349 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

Tgt Ion: 65 Resp: 255346
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-3

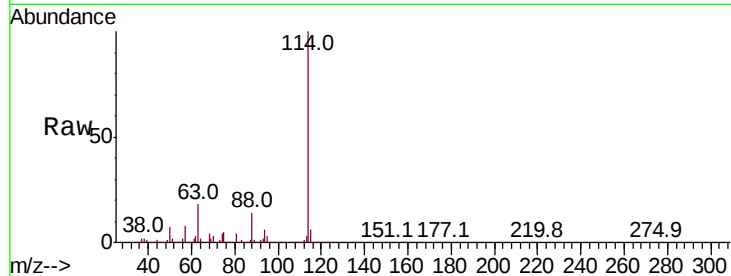
Tot Ion:114 Resp: 726981

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

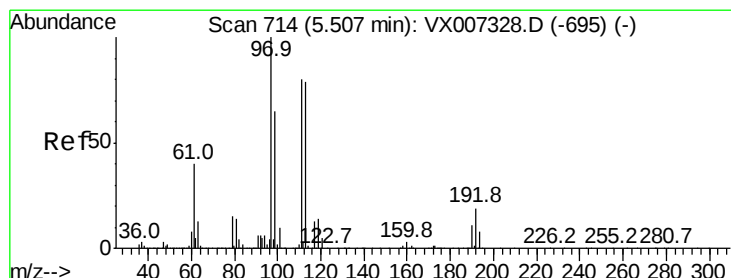
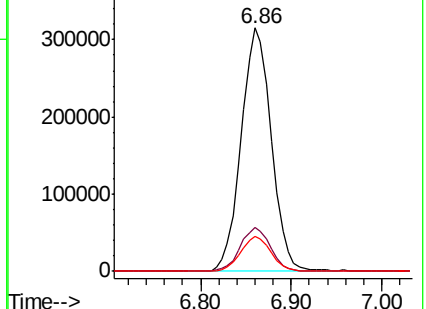
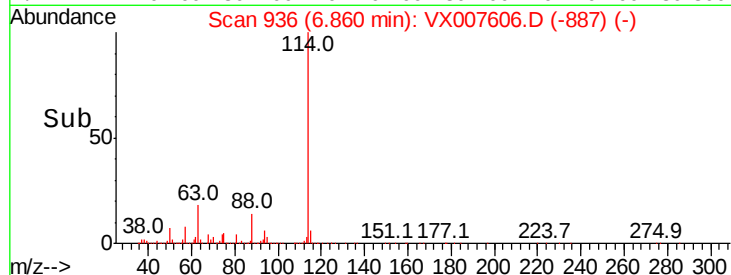
88 14.2 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.461 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

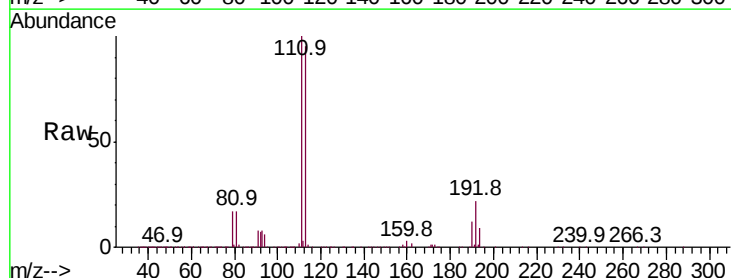
Tgt Ion:113 Resp: 238692

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

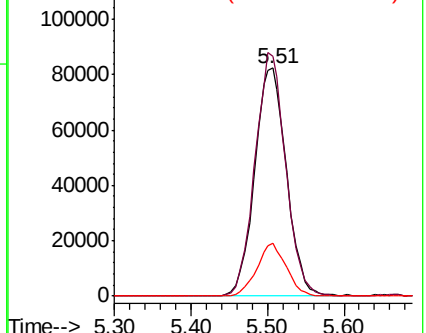
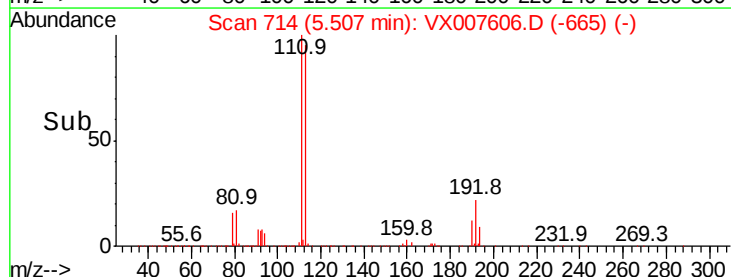
192 21.6 18.5 27.7

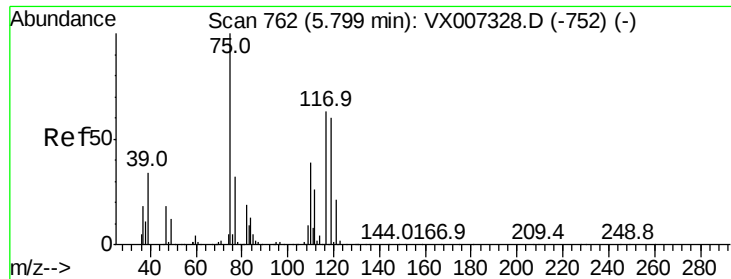


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

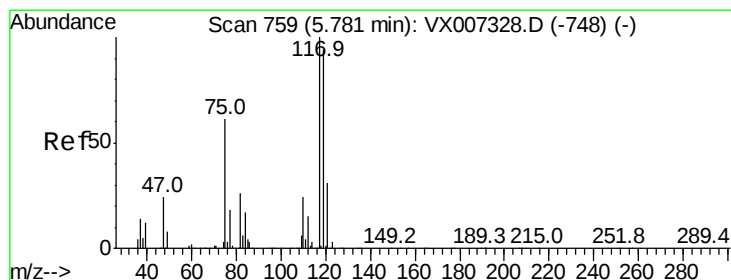
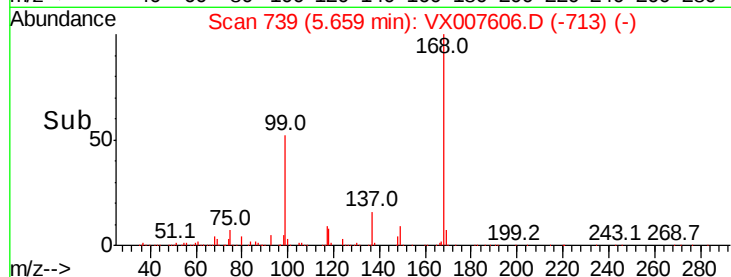
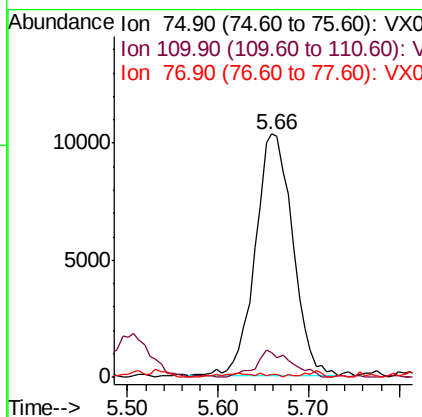
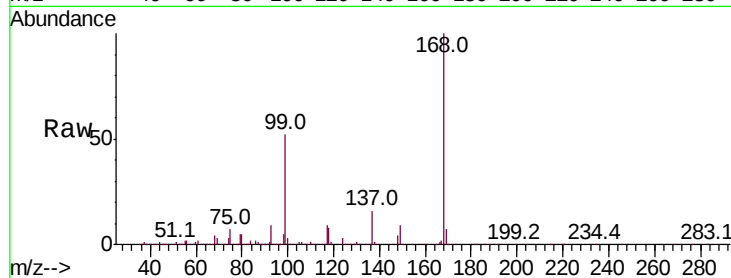




#36
 1,1-Dichloropropene
 Concen: 4.528 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007606.D
 Acq: 19 Feb 2019 12:04

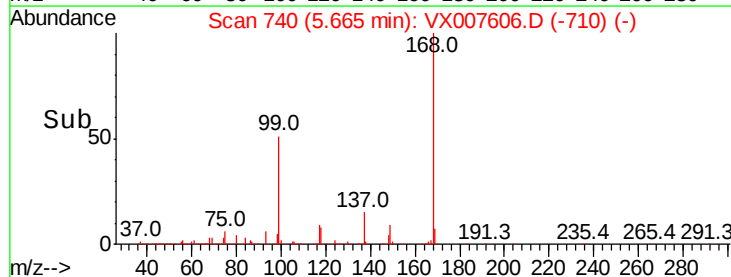
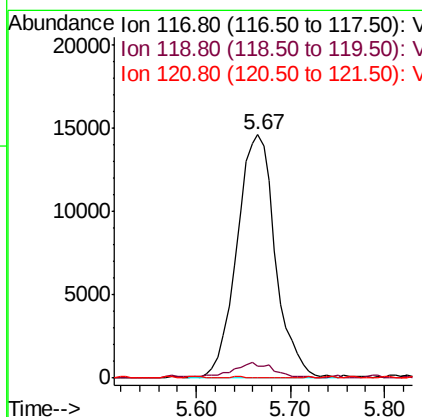
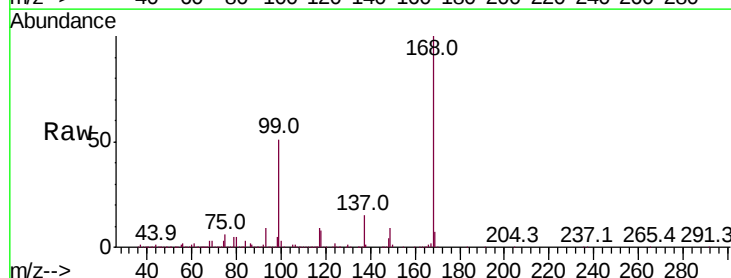
Instrument :
 MSVOA_X
 ClientSampleId :
 CABLE-BRIDGE-FOUNDATION-D-3

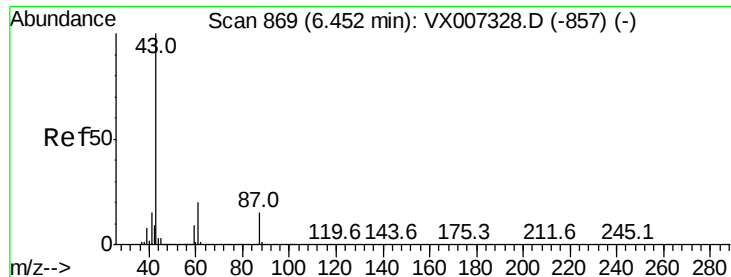
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	20.0	59.9#
77	0.6	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.589 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007606.D
 Acq: 19 Feb 2019 12:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	75.3	112.9#
121	0.0	25.0	37.4#



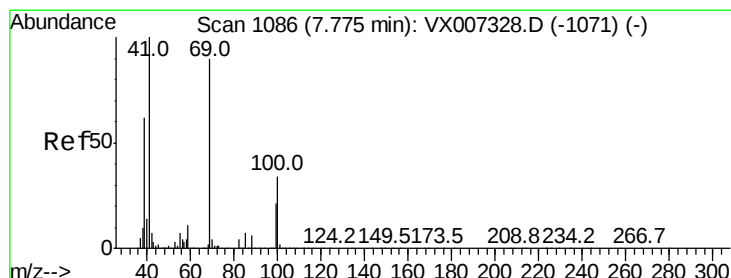
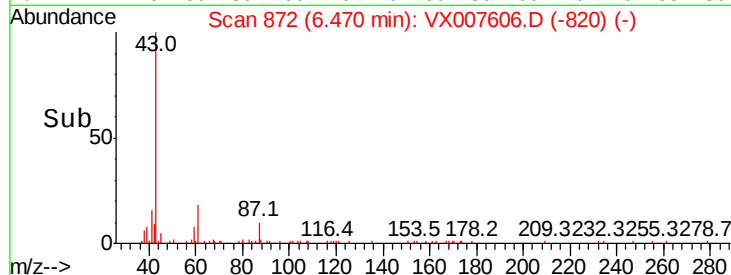
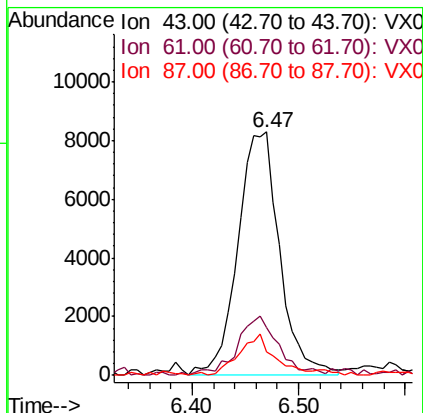
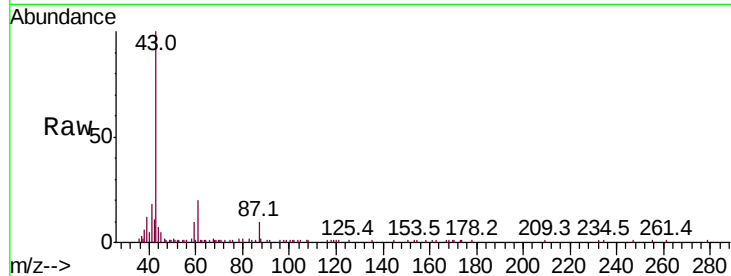


#43

Isopropyl Acetate
 Concen: 2.249 ug/l
 RT: 6.47 min Scan# 872
 Delta R.T. 0.02 min
 Lab File: VX007606.D
 Acq: 19 Feb 2019 12:04

Instrument :
 MSVOA_X
 ClientSampleId :
 CABLE-BRIDGE-FOUNDATION-D-3

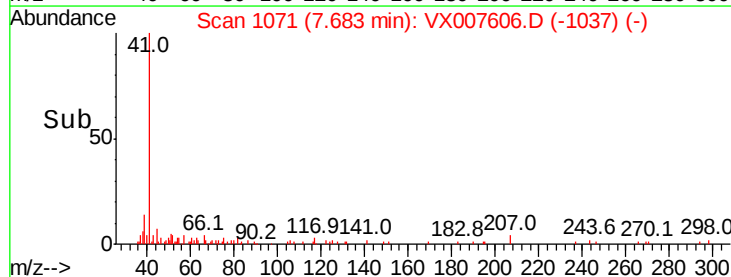
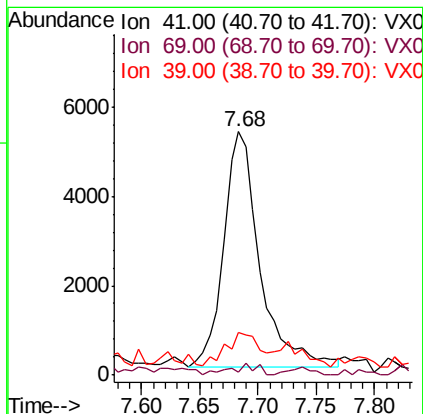
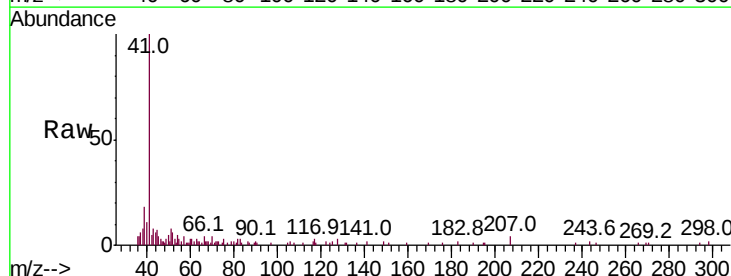
Tot Ion: 43 Resp: 22894
 Ion Ratio Lower Upper
 43 100
 61 24.1 16.1 24.1
 87 14.4 11.5 17.3

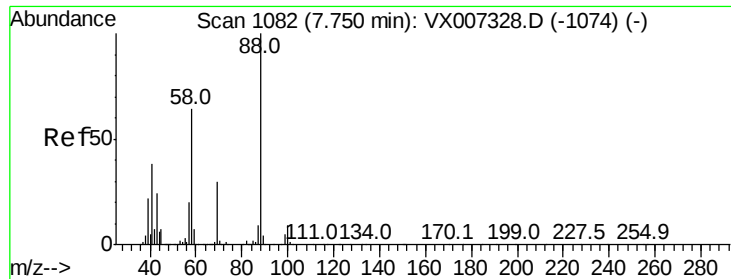


#48

Methyl methacrylate
 Concen: 2.234 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007606.D
 Acq: 19 Feb 2019 12:04

Tgt Ion: 41 Resp: 11371
 Ion Ratio Lower Upper
 41 100
 69 3.5 70.2 105.4#
 39 0.0 47.4 71.0#





#49

1,4-Dioxane

Concen: 7.128 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

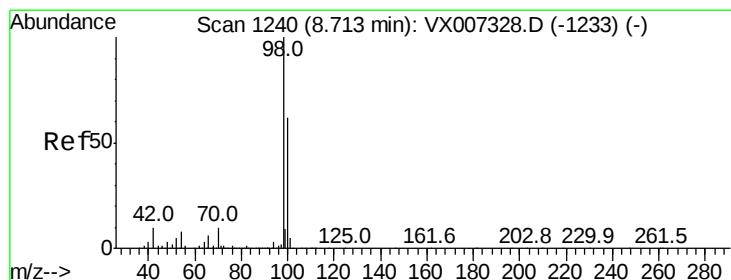
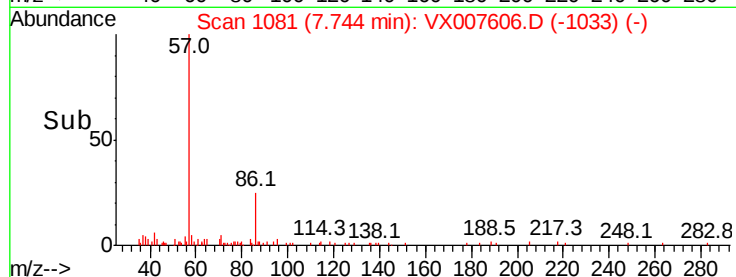
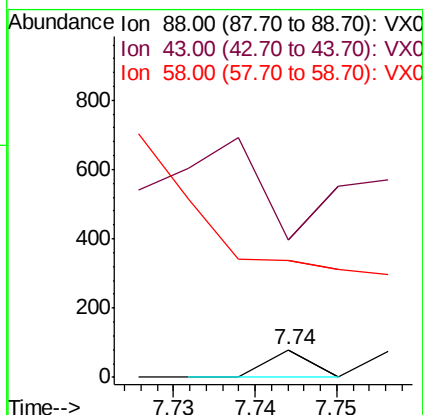
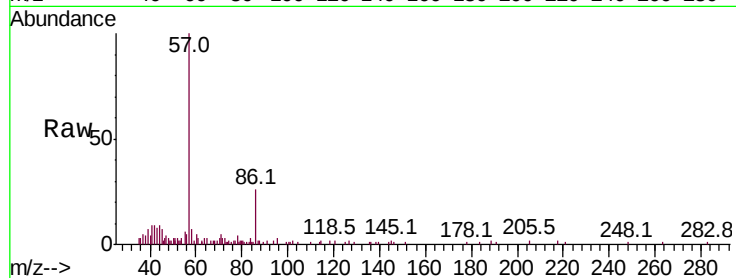
Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-3

Tot Ion: 88 Resp: 29

Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.2	36.4#
58	4200.0	53.0	79.4#



#50

Toluene-d8

Concen: 51.537 ug/l

RT: 8.71 min Scan# 1240

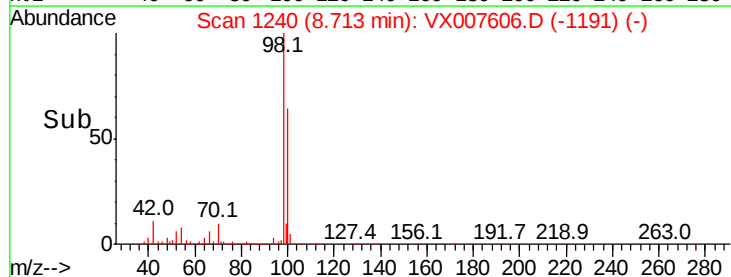
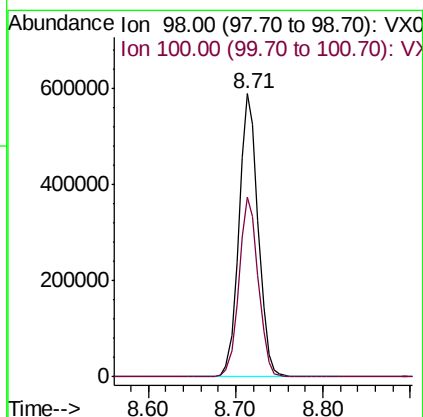
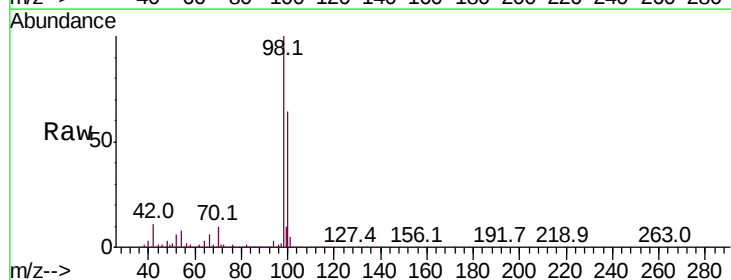
Delta R.T. 0.00 min

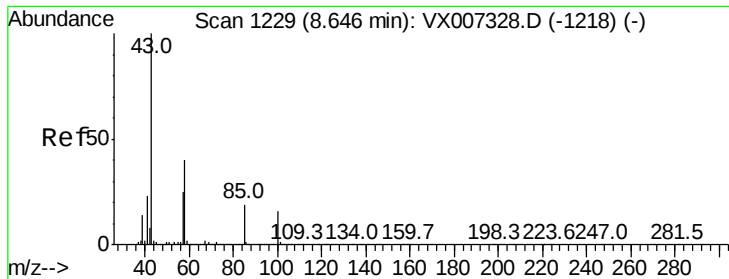
Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Tgt Ion: 98 Resp: 904471

Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 16.251 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

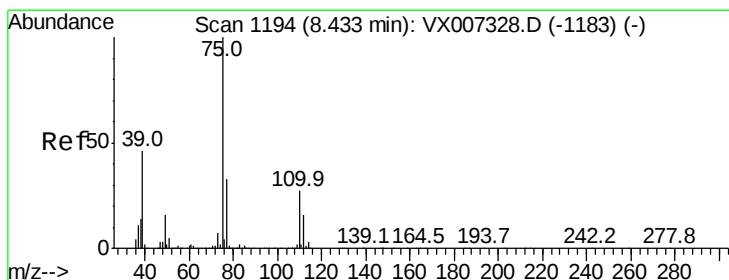
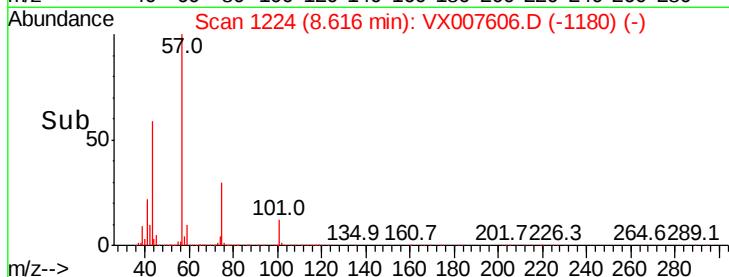
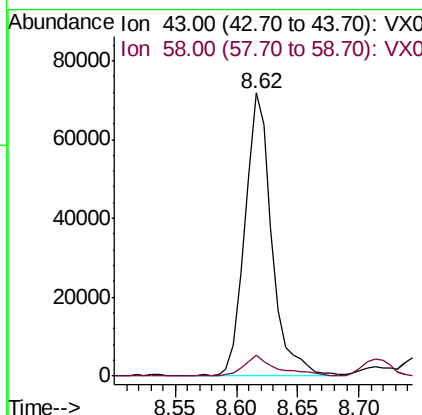
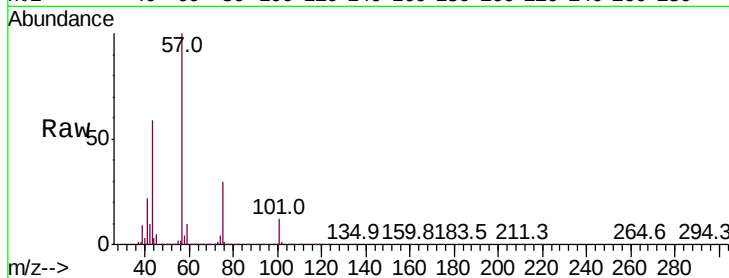
Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-3

Tot Ion: 43 Resp: 108880

Ion	Ratio	Lower	Upper
43	100		
58	8.7	31.2	46.8#



#54

cis-1,3-Dichloropropene

Concen: 7.731 ug/l

RT: 8.62 min Scan# 1224

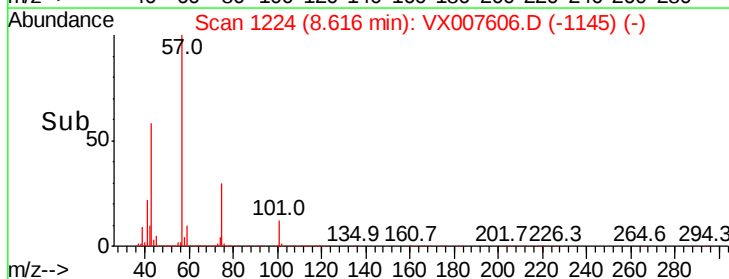
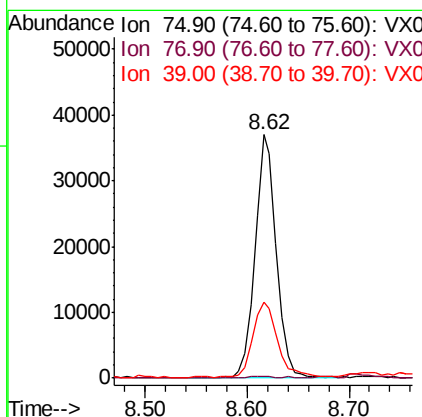
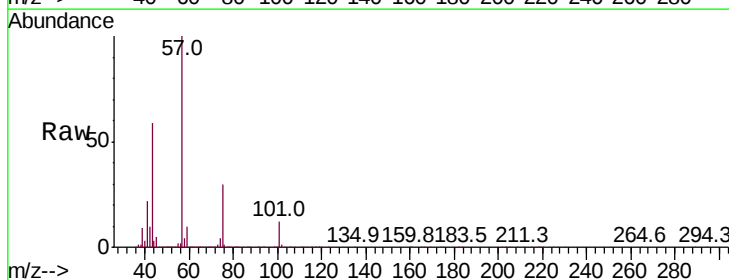
Delta R.T. 0.18 min

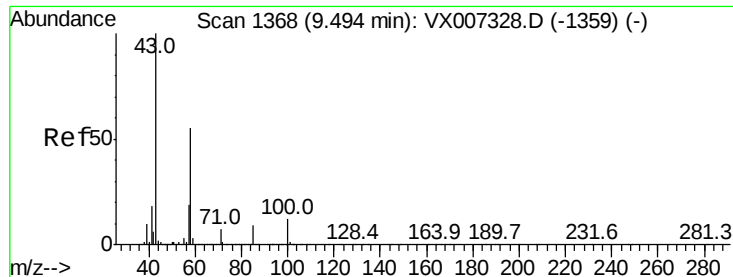
Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Tgt Ion: 75 Resp: 54156

Ion	Ratio	Lower	Upper
75	100		
77	0.6	26.2	39.4#
39	31.1	37.1	55.7#

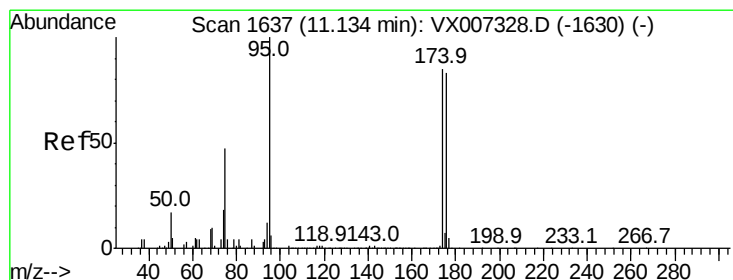
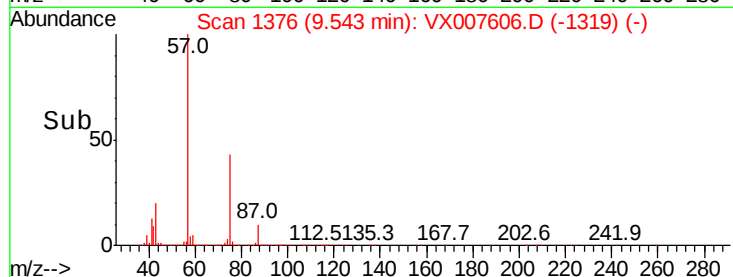
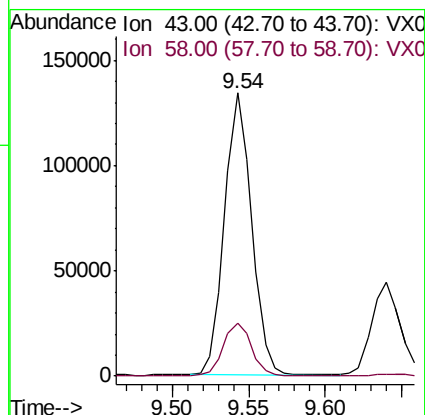
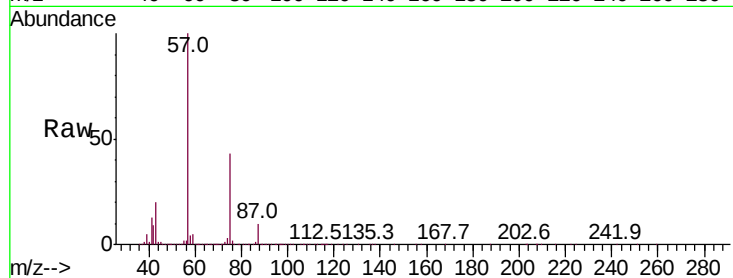




#59
2-Hexanone
Concen: 31.691 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

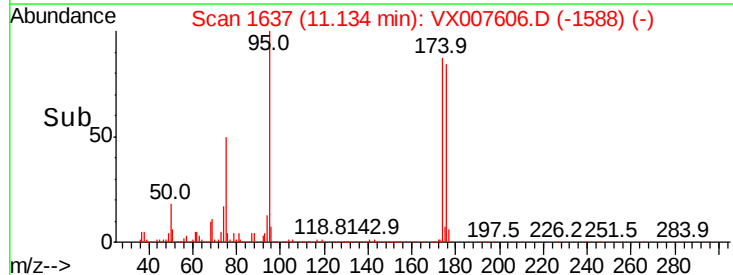
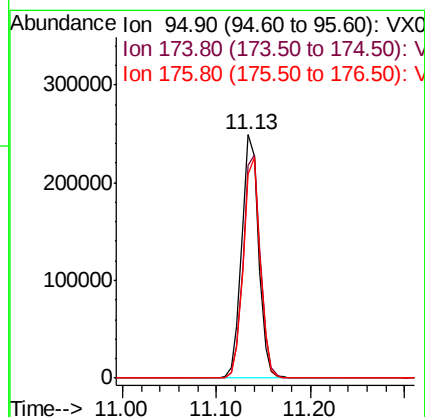
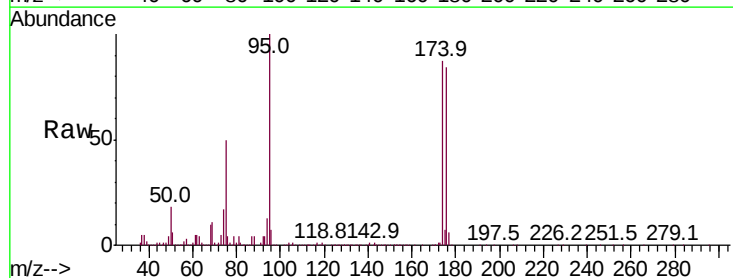
Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-3

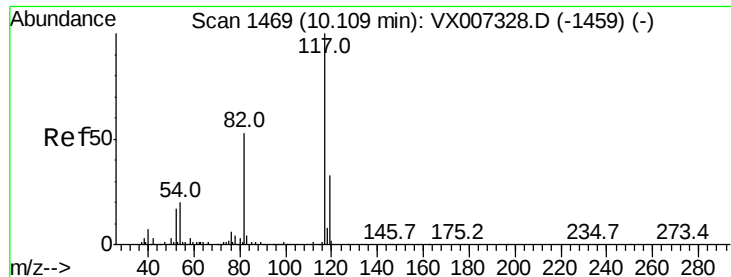
Tot Ion: 43 Resp: 165226
Ion Ratio Lower Upper
43 100
58 20.0 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 48.717 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

Tgt Ion: 95 Resp: 312156
Ion Ratio Lower Upper
95 100
174 93.1 0.0 189.2
176 90.0 0.0 186.2

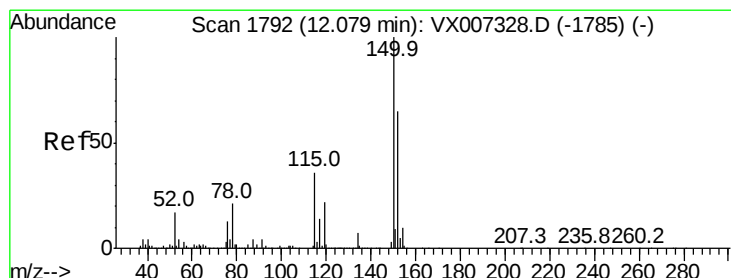
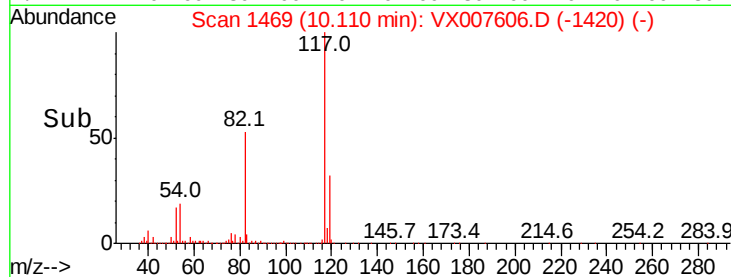
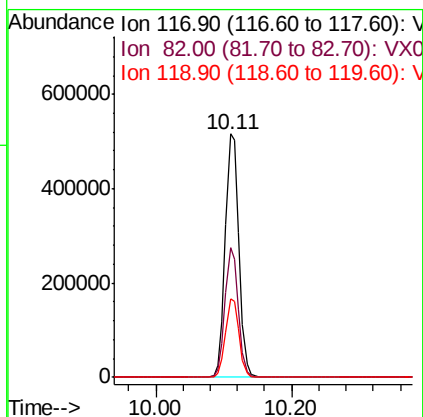
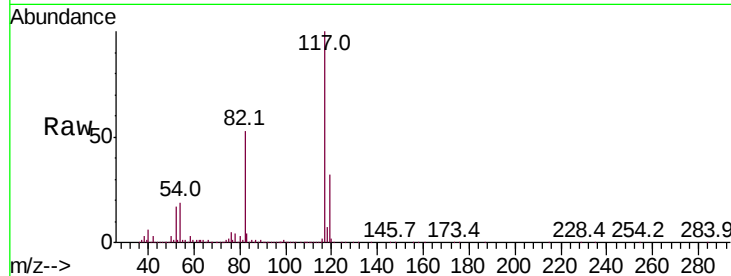




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

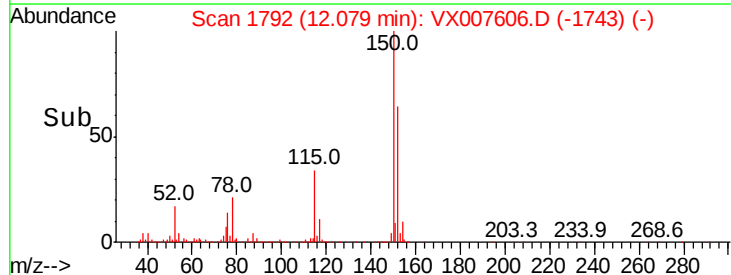
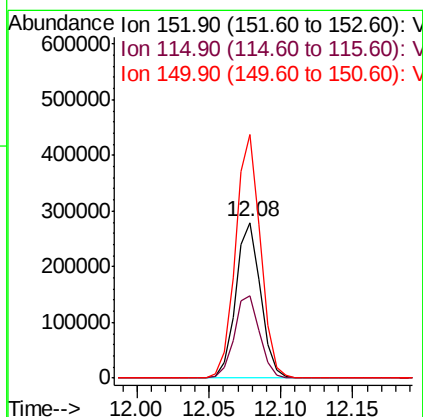
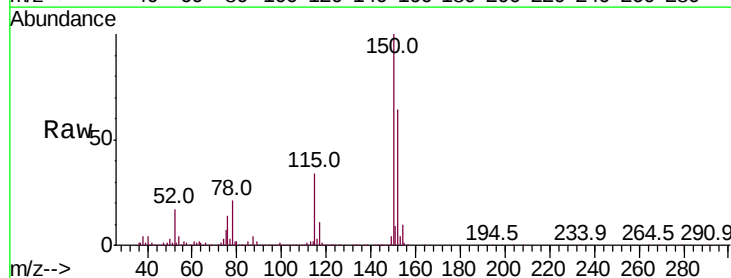
Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-3

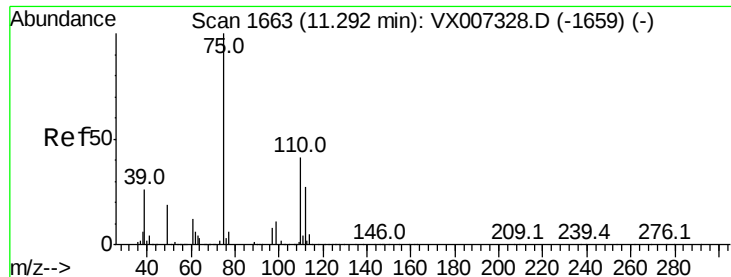
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.1	63.1
119	32.0	26.5	39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007606.D
Acq: 19 Feb 2019 12:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	38.0	114.0
150	157.6	0.0	346.4





#76

1,2,3-Trichloropropane

Concen: 22.688 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

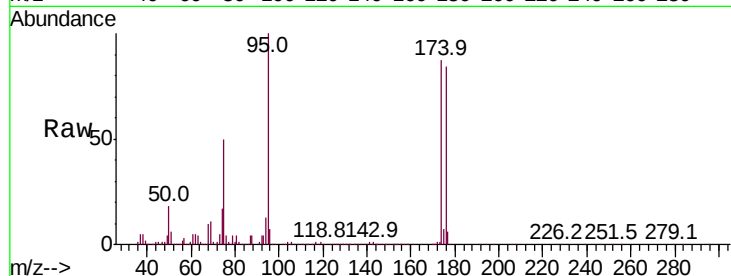
CABLE-BRIDGE-FOUNDATION-D-3

Tot Ion: 75 Resp: 148092

Ion Ratio Lower Upper

75 100

77 1.3 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

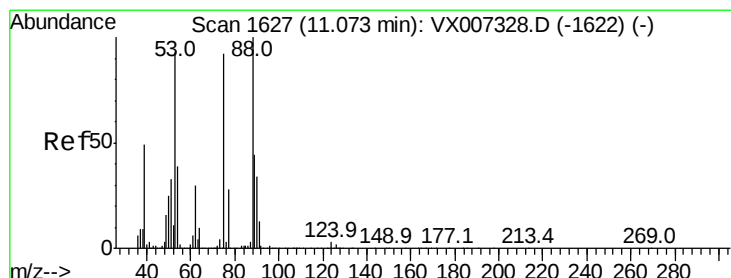
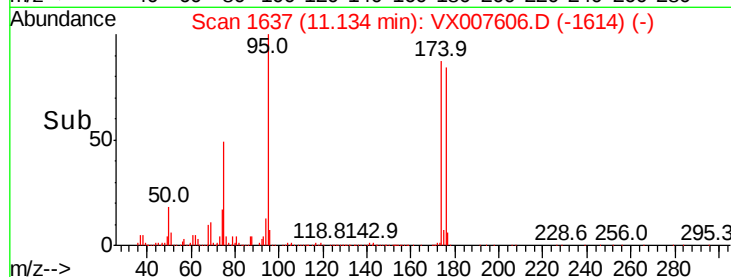
11.13

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 68.424 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007606.D

Acq: 19 Feb 2019 12:04

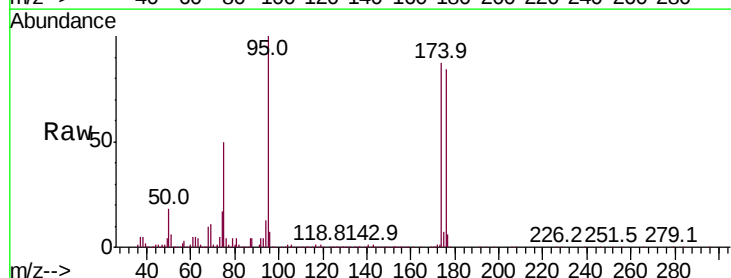
Tgt Ion: 75 Resp: 148092

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 41.4 62.0#



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

11.13

150000

100000

50000

0

Time-->

