

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060898.D
 Acq On : 3 Dec 2018 18:24
 Operator : VA/AP
 Sample : J5775-03RE
 Misc : 7.23g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TR-04-113018

Quant Time: Dec 04 03:11:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	190373	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	331970	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	285733	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	119569	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	120460	53.71	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	107.42%	
35) Dibromofluoromethane	4.13	113	124624	47.32	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	94.64%	
50) Toluene-d8	7.58	98	283257	36.51	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	73.02%	
62) 4-Bromofluorobenzene	11.42	95	126869	35.98	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	71.96%	

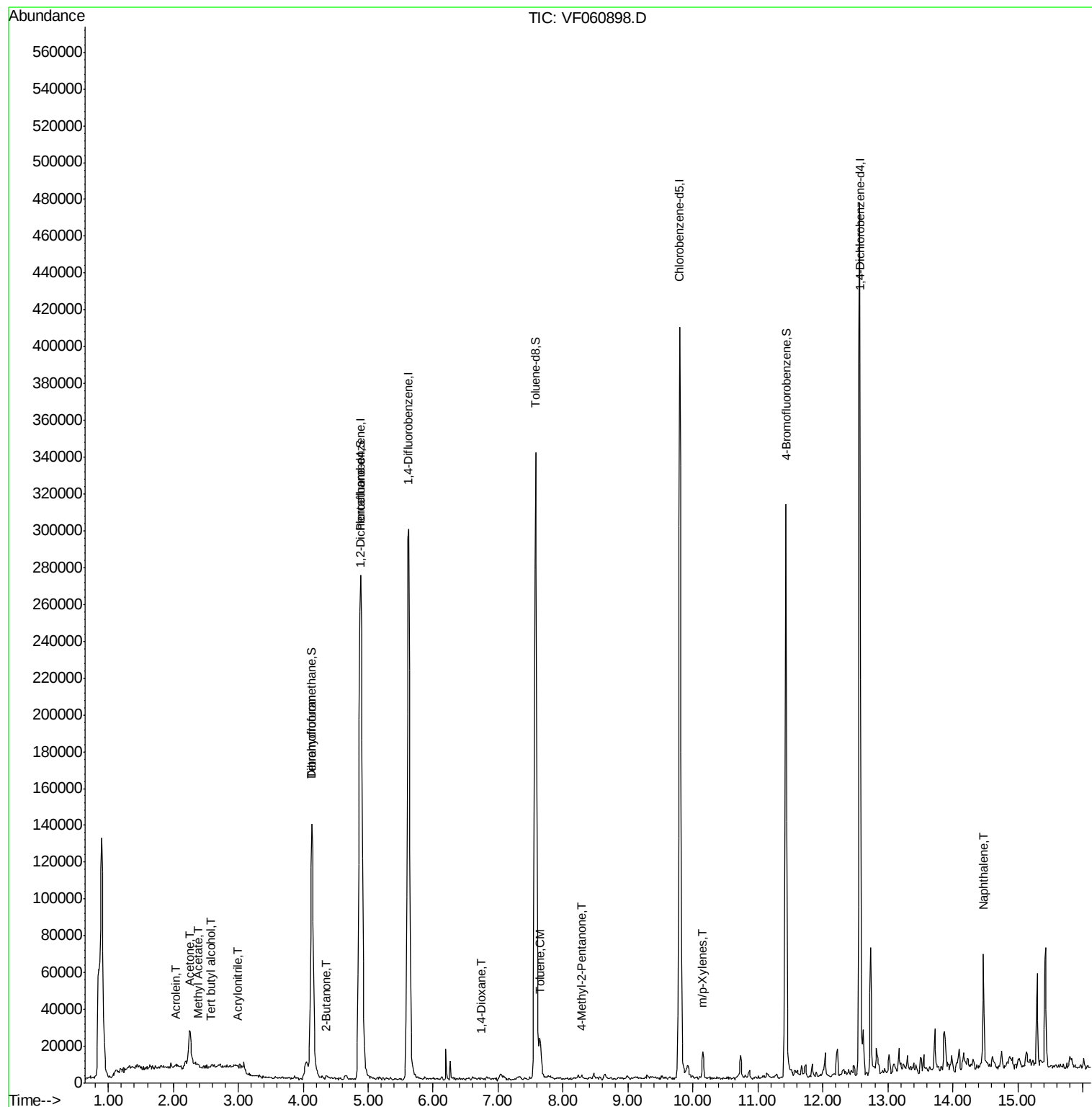
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.59	59	601	6.537	ug/l #	7
13) Acrolein	2.04	56	662	7.600	ug/l	86
15) Acrylonitrile	3.00	53	297	1.441	ug/l #	9
16) Acetone	2.25	43	34106	82.469	ug/l	99
18) Methyl Acetate	2.37	43	2454	1.950	ug/l #	61
25) 2-Butanone	4.36	43	4111	5.747	ug/l #	89
29) Tetrahydrofuran	4.12	42	511	1.685	ug/l #	37
41) Methacrylonitrile	4.75	41	787	Below Cal	#	23
43) Isopropyl Acetate	6.96	43	159	Below Cal	#	49
49) 1,4-Dioxane	6.73	88	67	6.759	ug/l #	17
51) 4-Methyl-2-Pentanone	8.30	43	2344	1.699	ug/l #	38
52) Toluene	7.65	92	11523	2.017	ug/l	97
68) m/p-Xylenes	10.15	106	4619	1.241	ug/l	97
95) Naphthalene	14.47	128	34356	3.538	ug/l	97

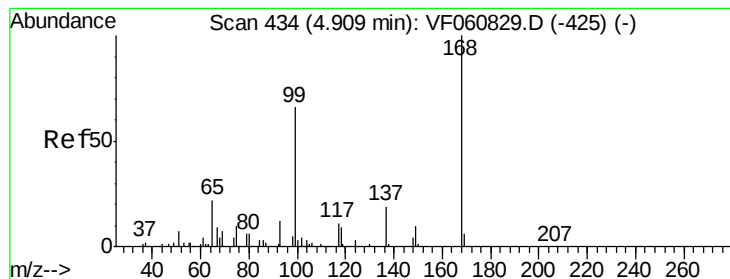
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

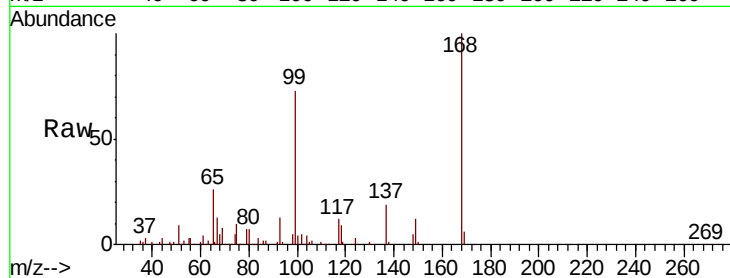
TR-04-113018

Tot Ion:168 Resp: 190373

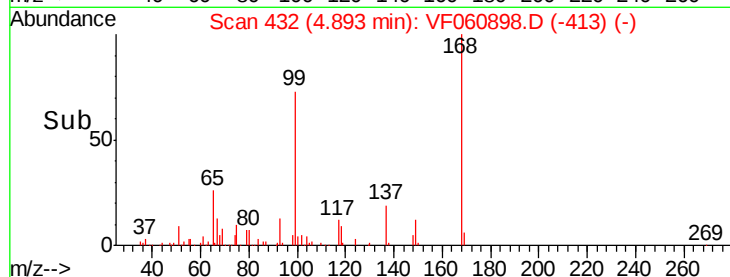
Ion Ratio Lower Upper

168 100

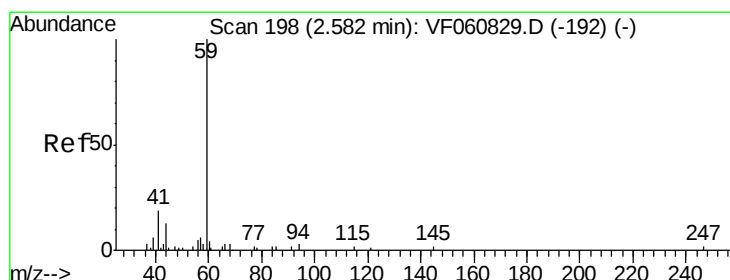
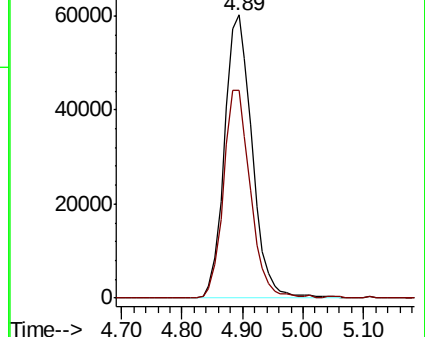
99 73.4 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 6.537 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.01 min

Lab File: VF060898.D

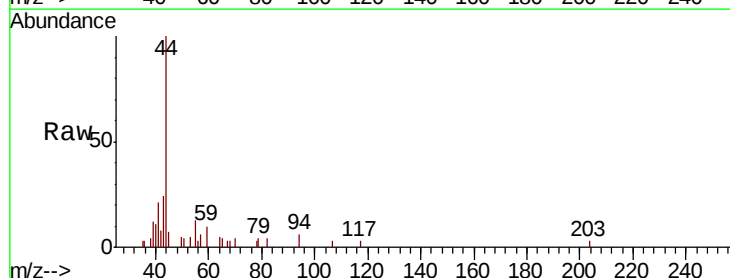
Acq: 3 Dec 2018 18:24

Tgt Ion: 59 Resp: 601

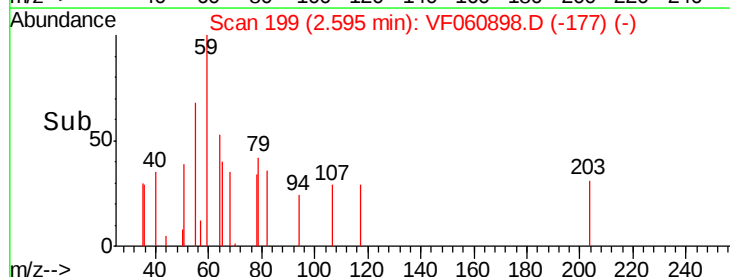
Ion Ratio Lower Upper

59 100

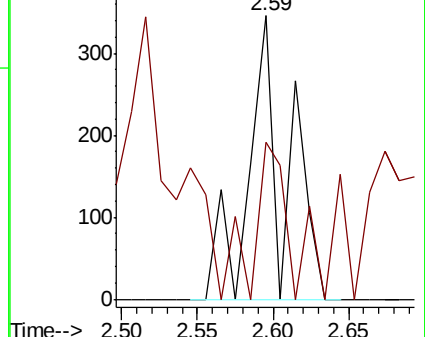
57 55.2 12.7 19.1#

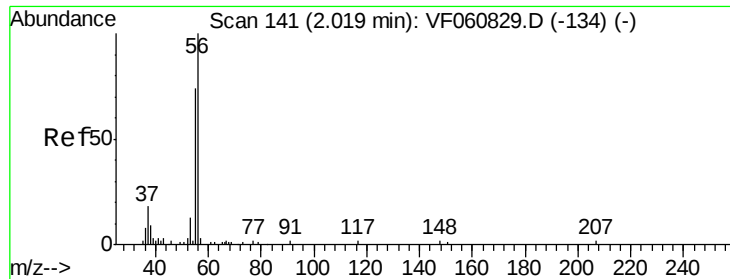


Abundance Ion 59.00 (58.70 to 59.70): VF0



Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 7.600 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.02 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

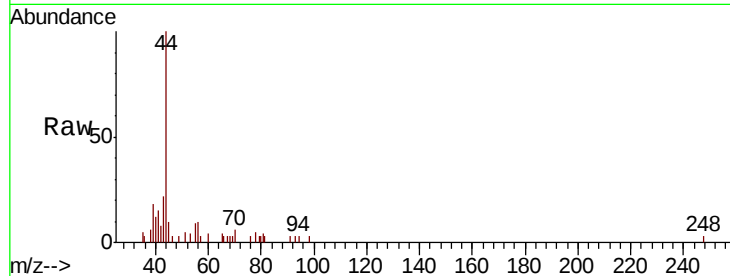
TR-04-113018

Tot Ion: 56 Resp: 662

Ion Ratio Lower Upper

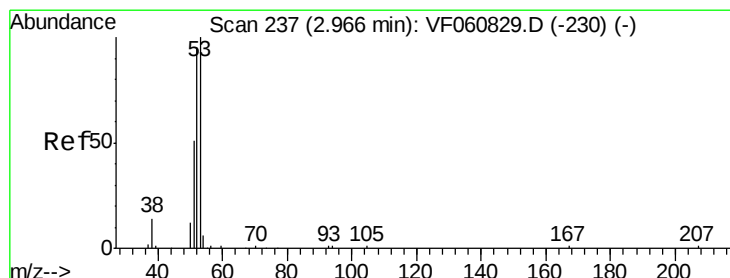
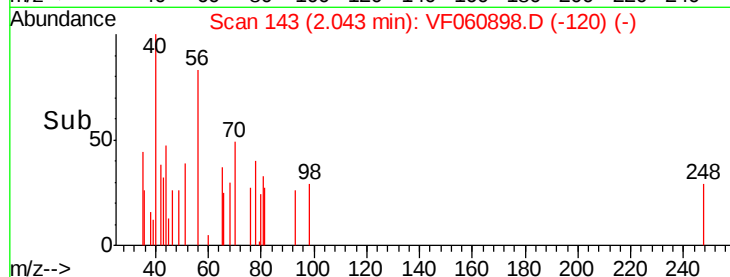
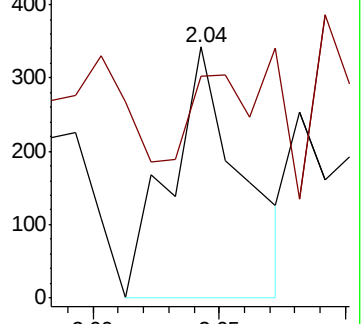
56 100

55 88.6 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.441 ug/l

RT: 3.00 min Scan# 240

Delta R.T. 0.03 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

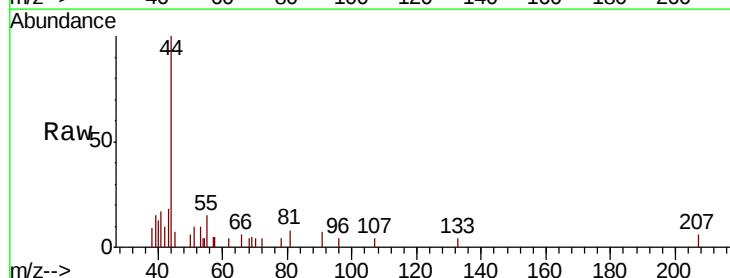
Tgt Ion: 53 Resp: 297

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

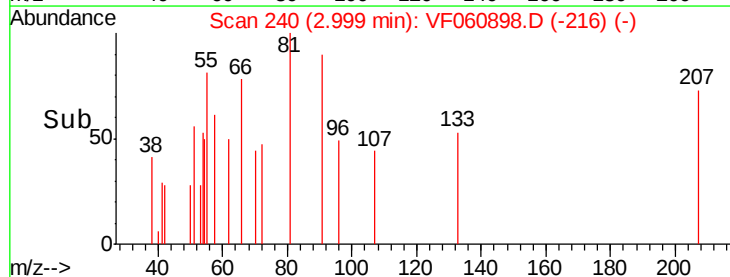
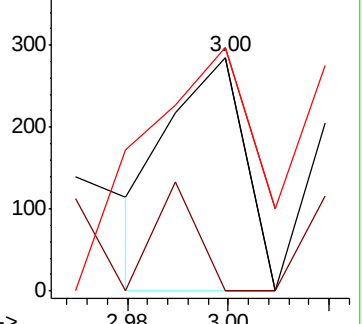
51 104.2 40.7 61.1#

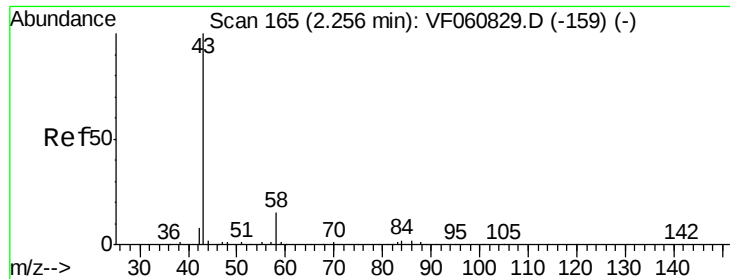


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 82.469 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

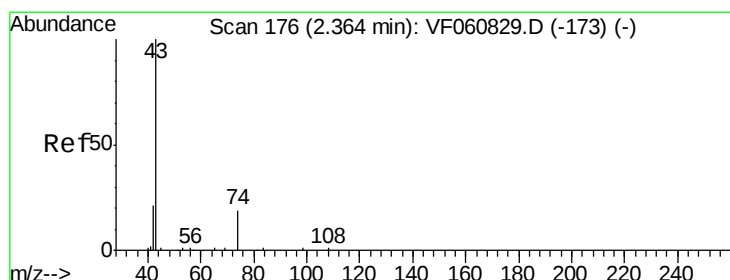
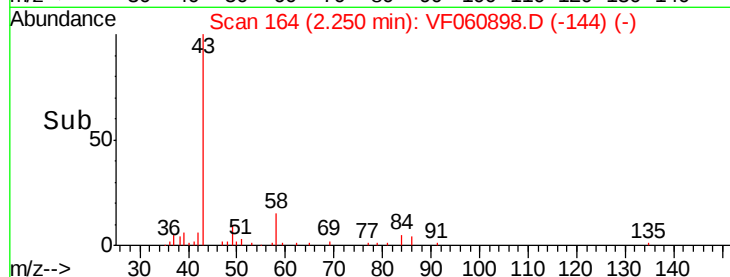
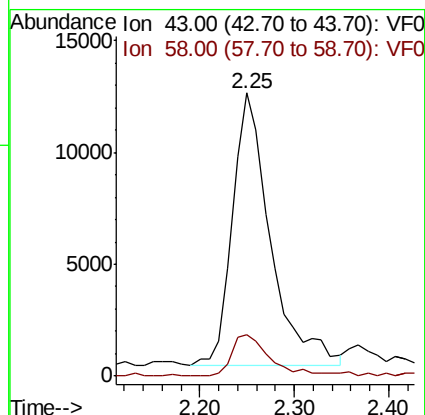
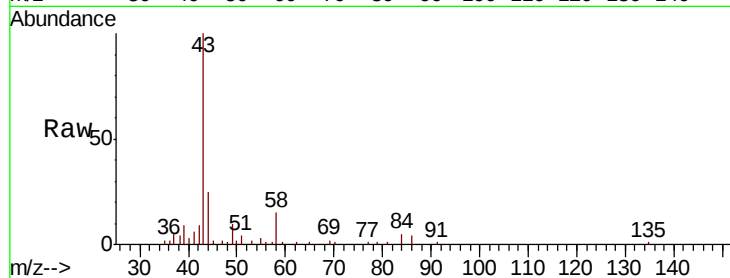
TR-04-113018

Tot Ion: 43 Resp: 34106

Ion Ratio Lower Upper

43 100

58 14.6 11.4 17.2



#18

Methyl Acetate

Concen: 1.950 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF060898.D

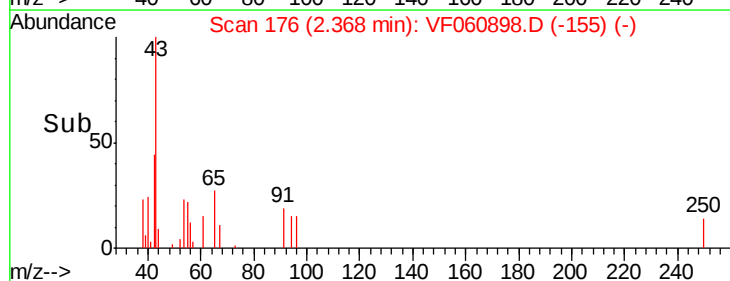
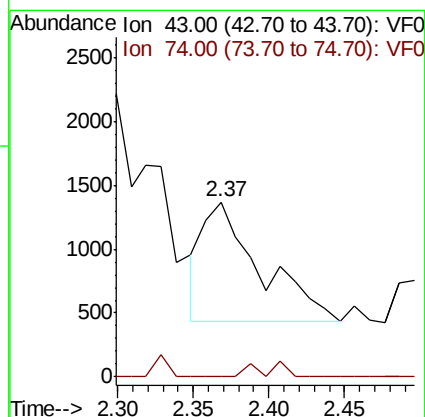
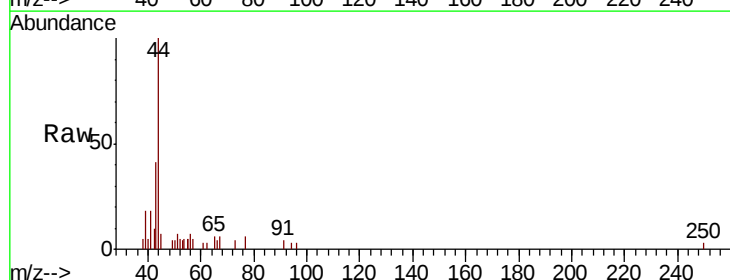
Acq: 3 Dec 2018 18:24

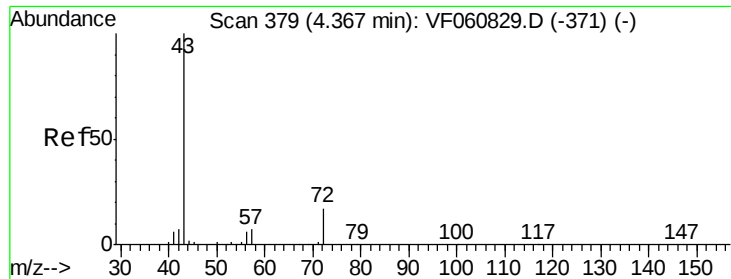
Tgt Ion: 43 Resp: 2454

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#





#25

2-Butanone

Concen: 5.747 ug/l

RT: 4.36 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

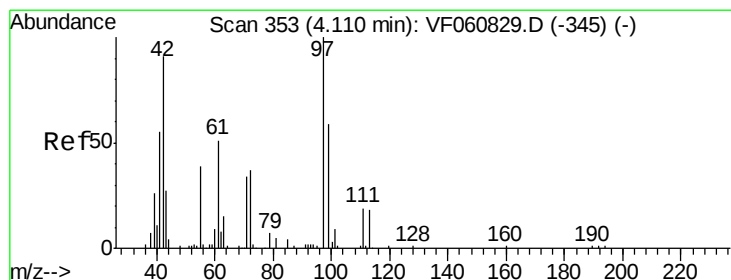
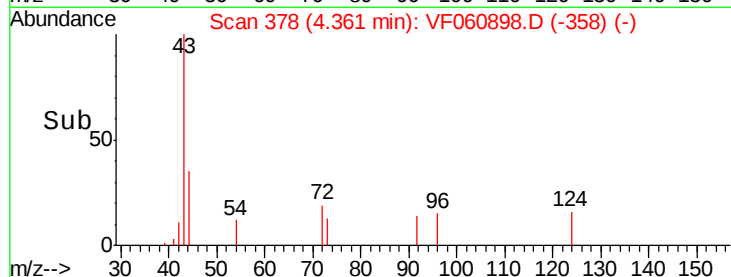
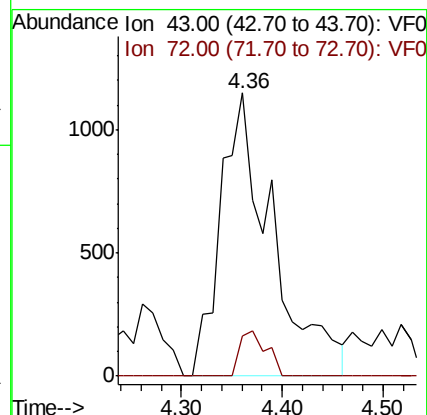
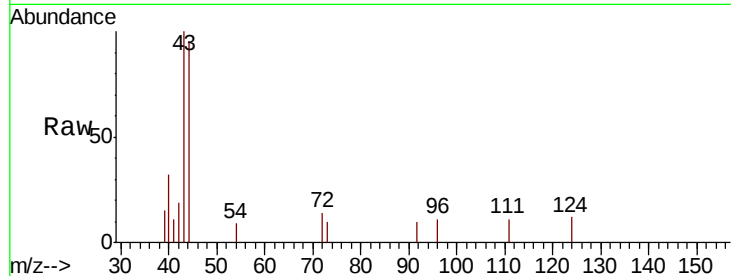
TR-04-113018

Tot Ion: 43 Resp: 4111

Ion Ratio Lower Upper

43 100

72 14.4 15.4 23.2#



#29

Tetrahydrofuran

Concen: 1.685 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

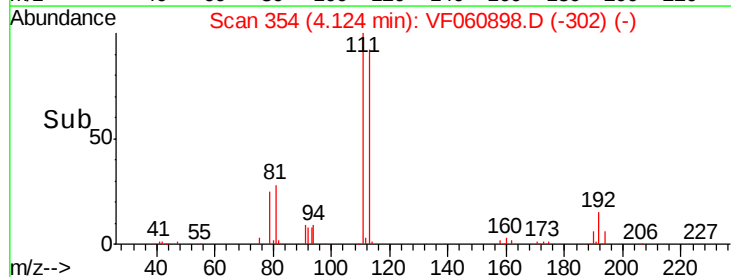
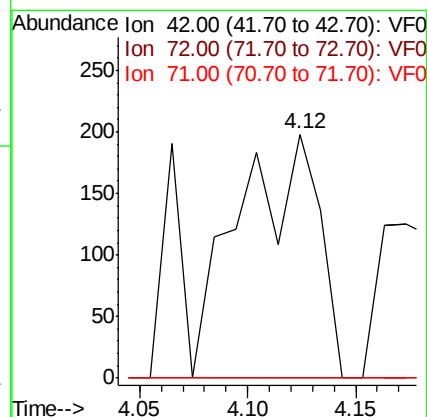
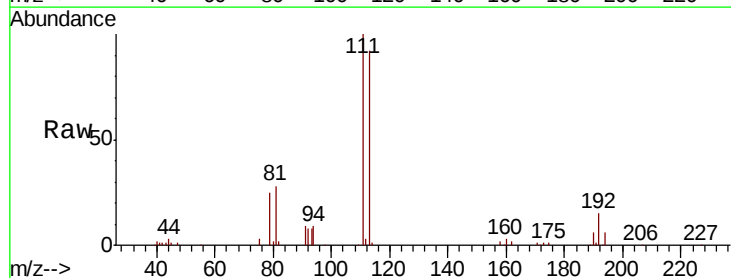
Tgt Ion: 42 Resp: 511

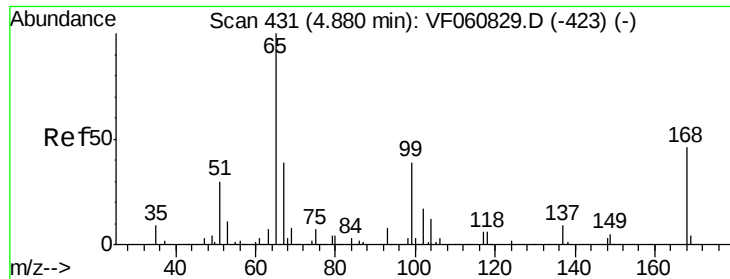
Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 0.0 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 53.713 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

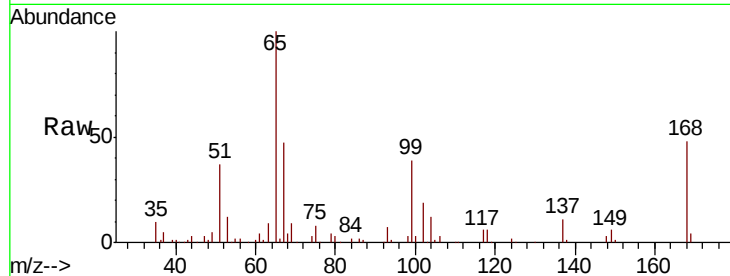
TR-04-113018

Tot Ion: 65 Resp: 120460

Ion Ratio Lower Upper

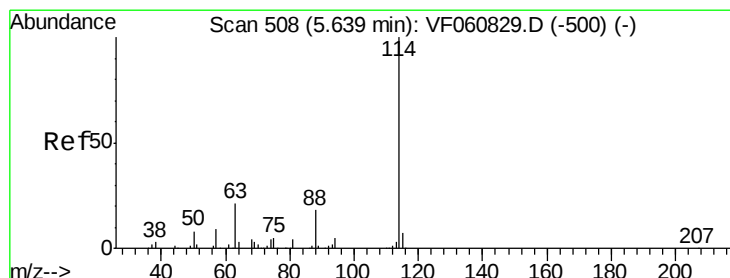
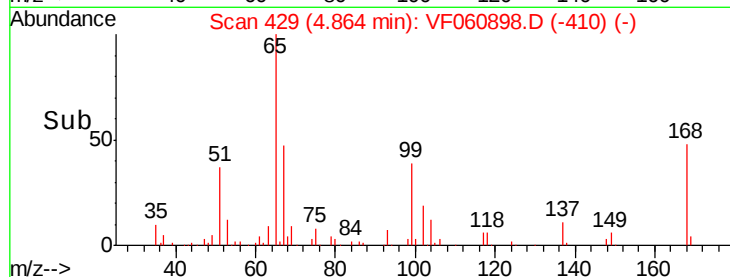
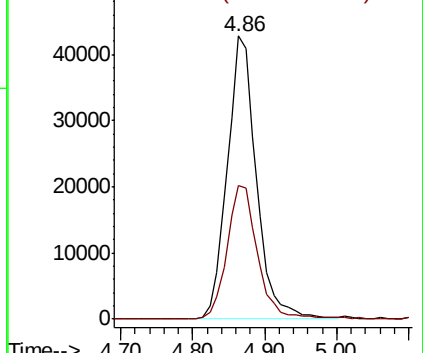
65 100

67 47.3 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

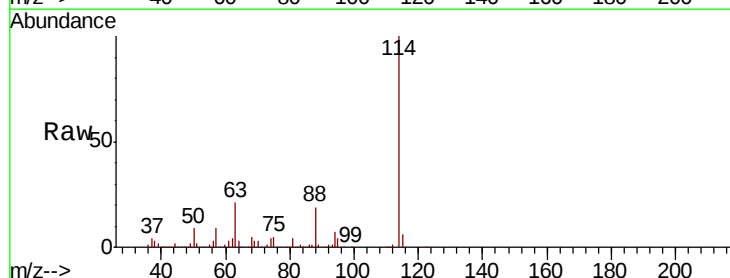
Tgt Ion: 114 Resp: 331970

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.6

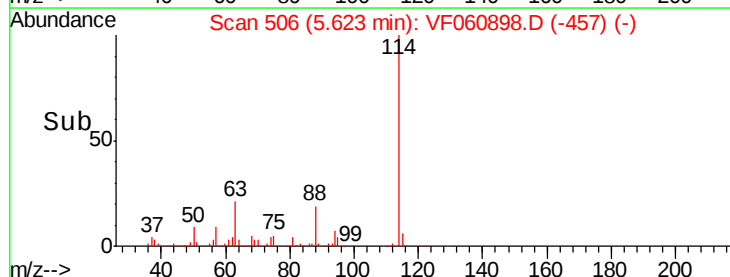
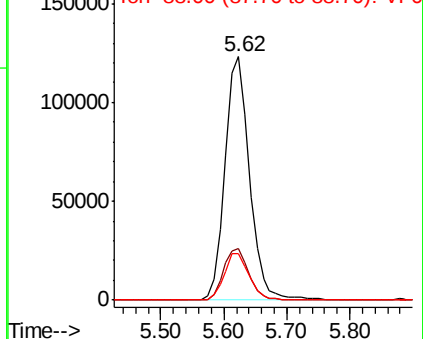
88 19.0 0.0 36.6

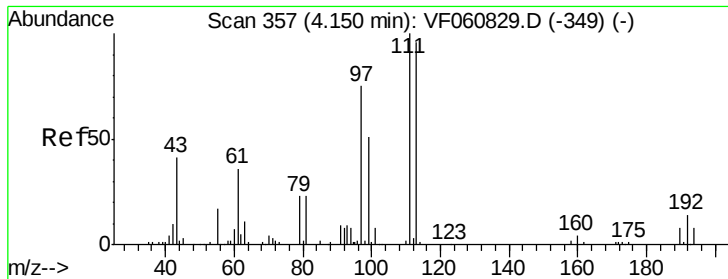


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 47.321 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.02 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

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TR-04-113018

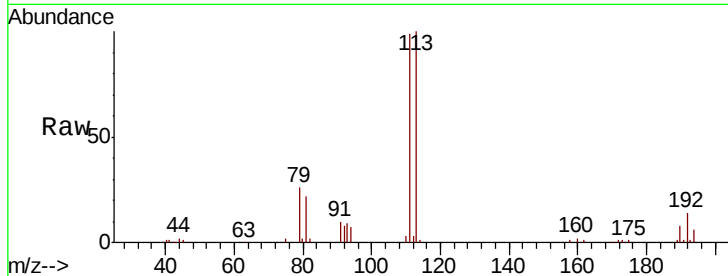
Tot Ion:113 Resp: 124624

Ion Ratio Lower Upper

113 100

111 98.8 83.0 124.6

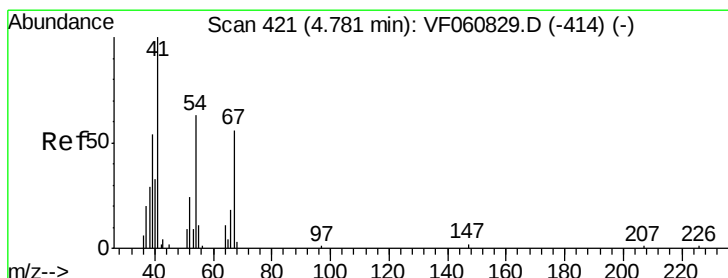
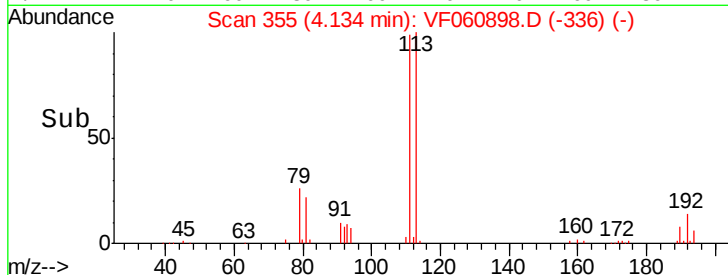
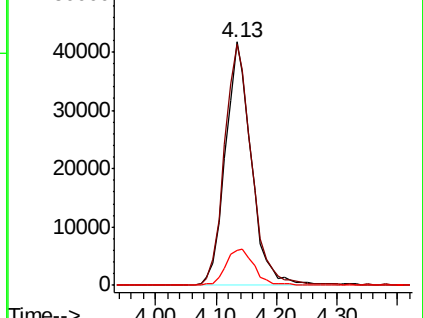
192 14.3 12.3 18.5



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.75 min Scan# 417

Delta R.T. -0.04 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

Tgt Ion: 41 Resp: 787

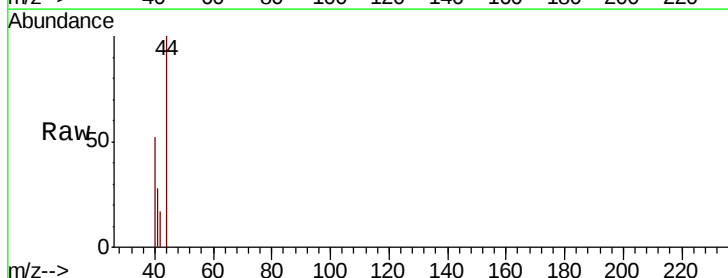
Ion Ratio Lower Upper

41 100

39 0.0 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

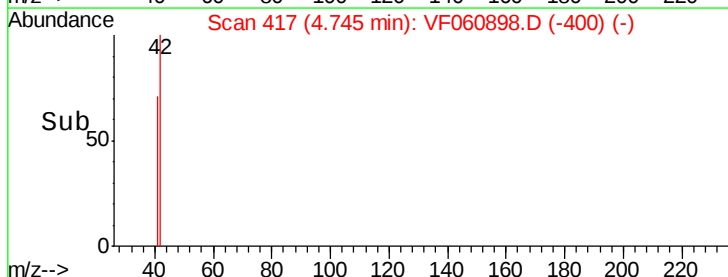
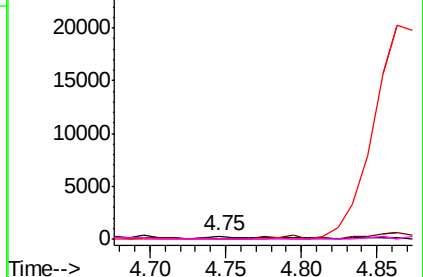


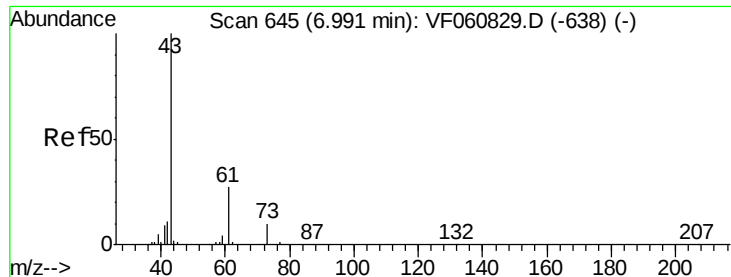
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



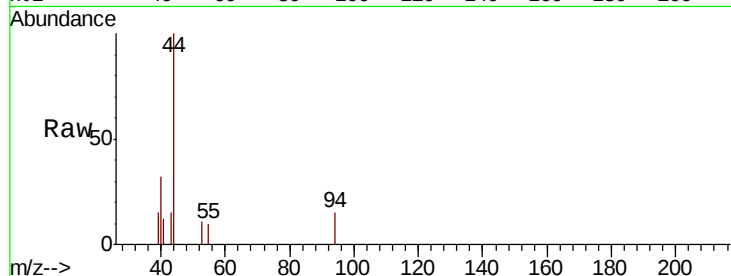


#43

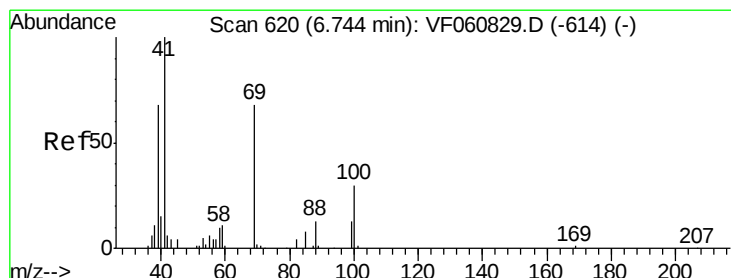
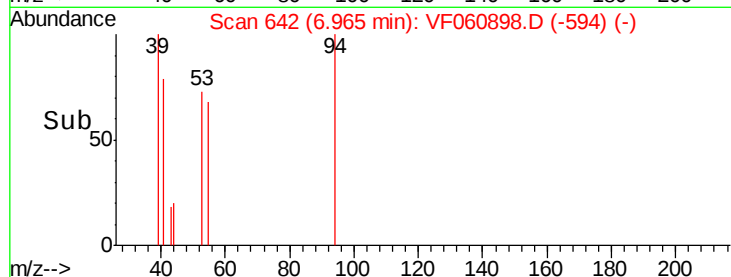
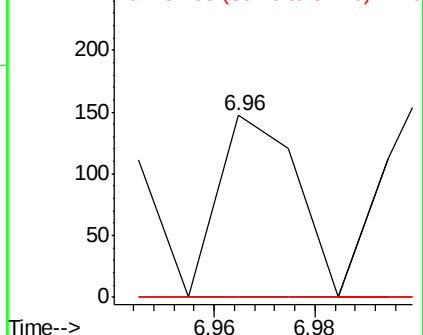
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.96 min Scan# 642
 Delta R.T. -0.03 min
 Lab File: VF060898.D
 Acq: 3 Dec 2018 18:24

Instrument :
 MSVOA_F
 ClientSampleId :
 TR-04-113018

Tot Ion: 43 Resp: 159
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



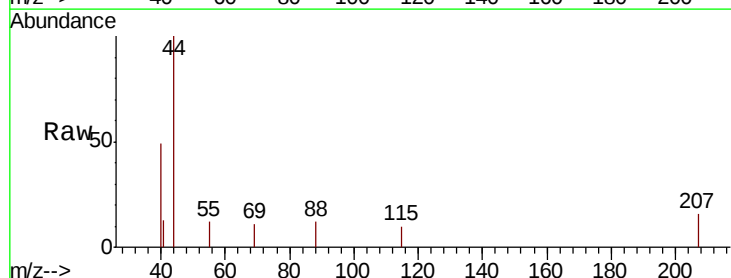
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



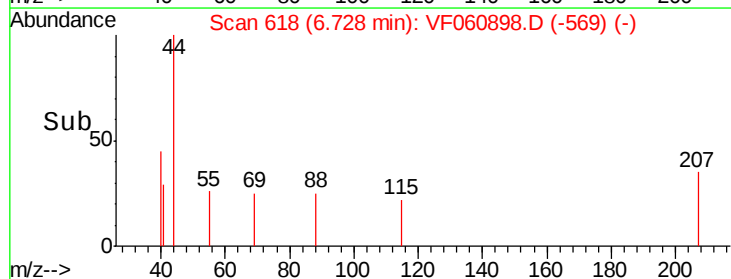
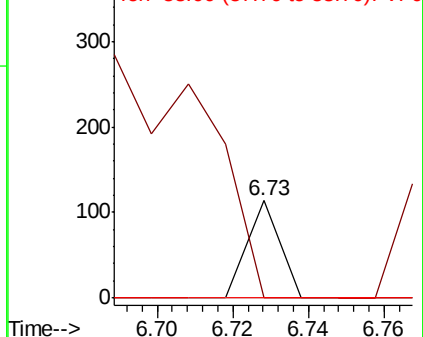
#49

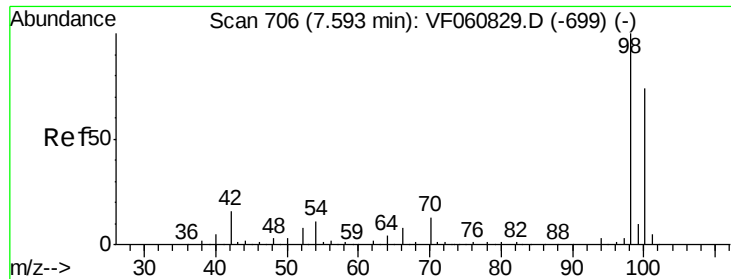
1,4-Dioxane
 Concen: 6.759 ug/l
 RT: 6.73 min Scan# 618
 Delta R.T. -0.02 min
 Lab File: VF060898.D
 Acq: 3 Dec 2018 18:24

Tgt Ion: 88 Resp: 67
 Ion Ratio Lower Upper
 88 100
 43 0.0 42.0 63.0#
 58 0.0 61.8 92.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0

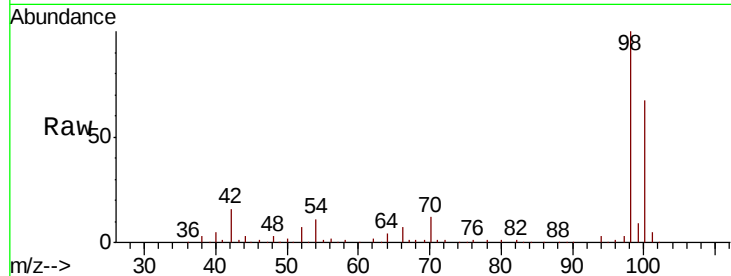




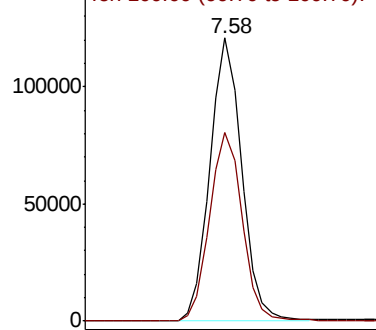
#50
Toluene-d8
Concen: 36.513 ug/l
RT: 7.58 min Scan# 704
Delta R.T. -0.02 min
Lab File: VF060898.D
Acq: 3 Dec 2018 18:24

Instrument :
MSVOA_F
ClientSampleId :
TR-04-113018

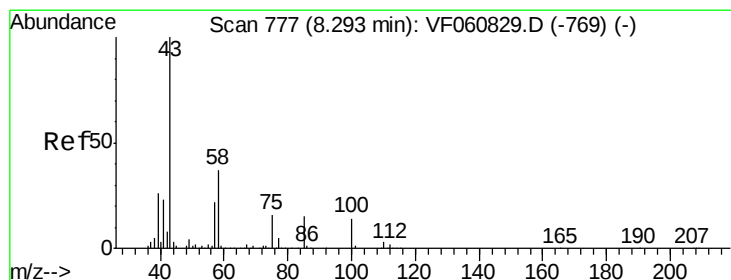
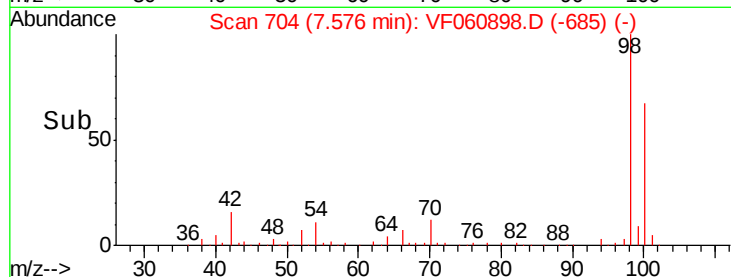
Tot Ion: 98 Resp: 283257
Ion Ratio Lower Upper
98 100
100 66.6 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

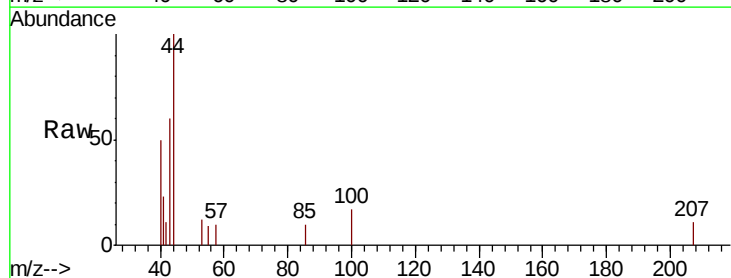


Time-->

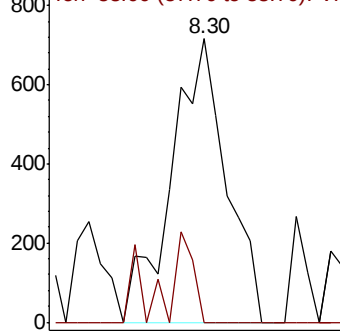


#51
4-Methyl-2-Pentanone
Concen: 1.699 ug/l
RT: 8.30 min Scan# 777
Delta R.T. 0.00 min
Lab File: VF060898.D
Acq: 3 Dec 2018 18:24

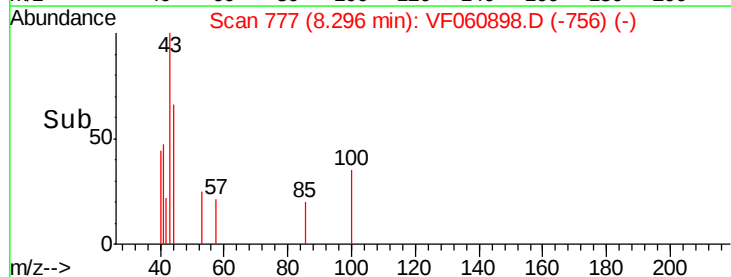
Tgt Ion: 43 Resp: 2344
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#

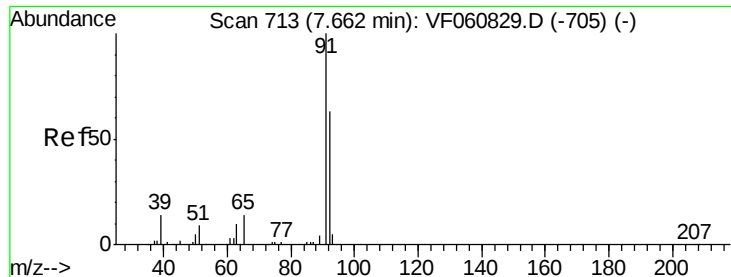


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



Time-->





#52

Toluene

Concen: 2.017 ug/l

RT: 7.65 min Scan# 711

Delta R.T. -0.02 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

Instrument :

MSVOA_F

ClientSampleId :

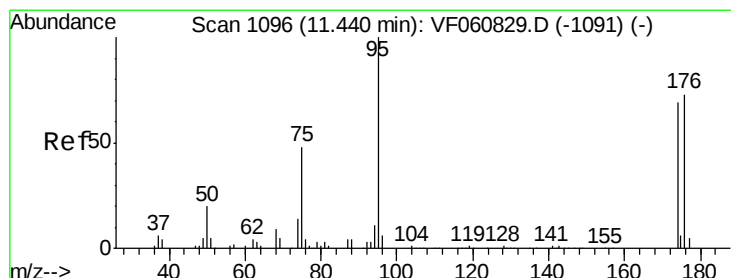
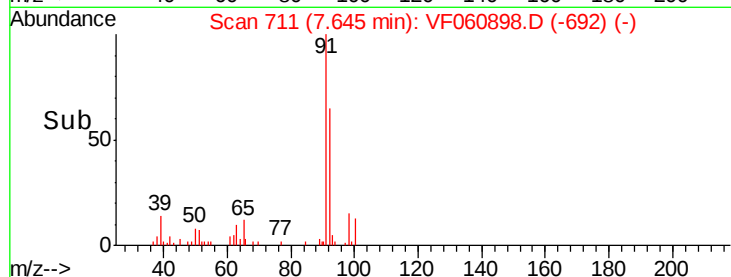
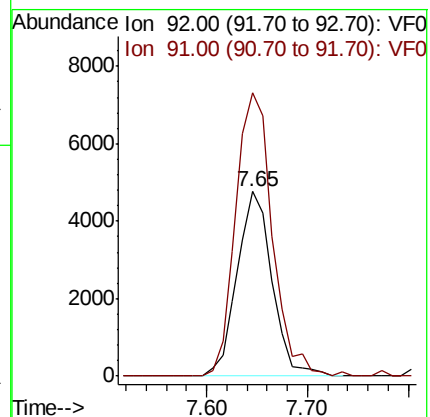
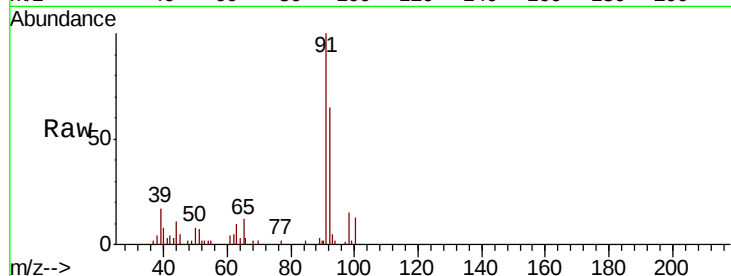
TR-04-113018

Tot Ion: 92 Resp: 11523

Ion Ratio Lower Upper

92 100

91 153.5 126.2 189.2



#62

4-Bromofluorobenzene

Concen: 35.983 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF060898.D

Acq: 3 Dec 2018 18:24

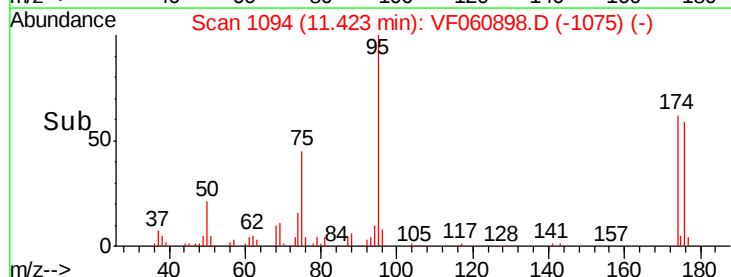
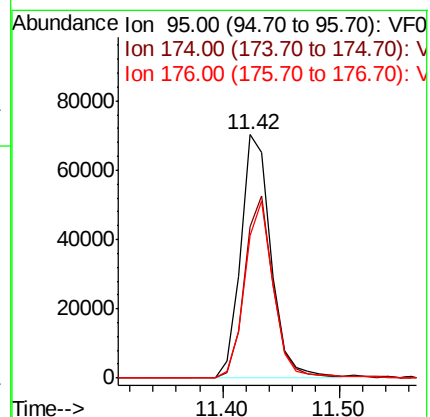
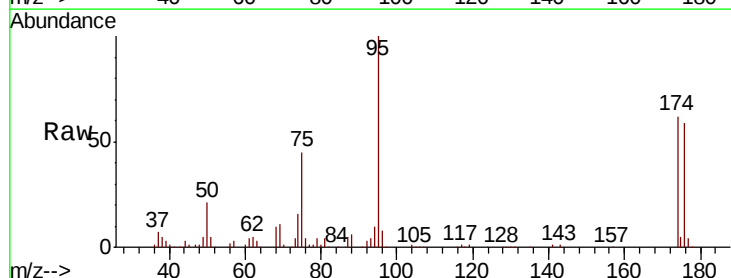
Tgt Ion: 95 Resp: 126869

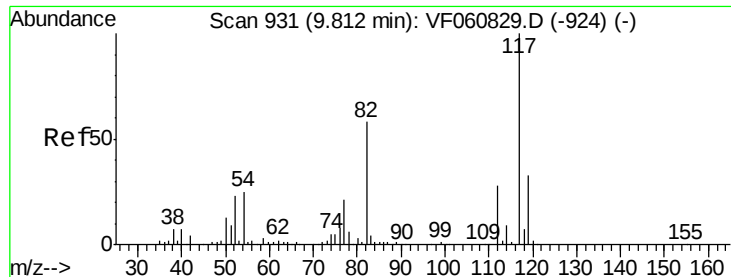
Ion Ratio Lower Upper

95 100

174 62.0 0.0 138.2

176 58.6 0.0 146.2

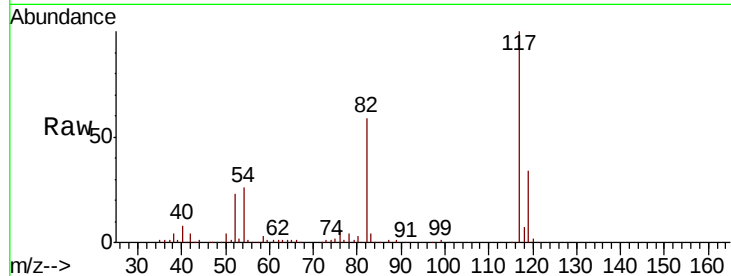




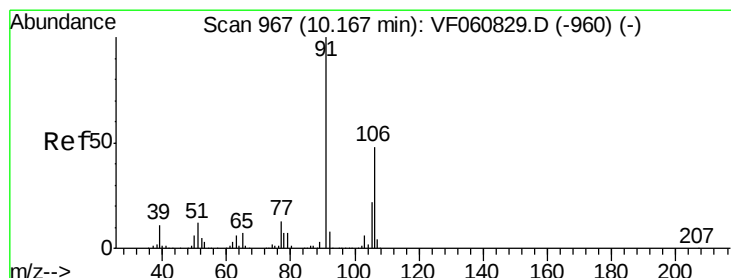
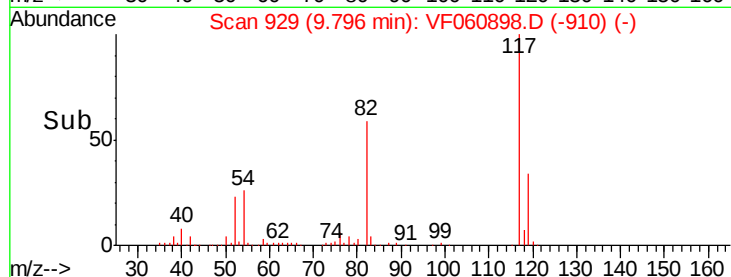
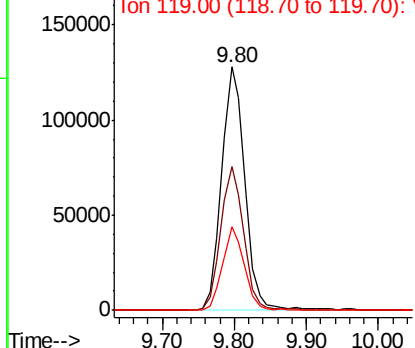
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF060898.D
Acq: 3 Dec 2018 18:24

Instrument :
MSVOA_F
ClientSampleId :
TR-04-113018

Tot Ion:117 Resp: 285733
Ion Ratio Lower Upper
117 100
82 59.3 46.6 69.8
119 34.4 26.4 39.6

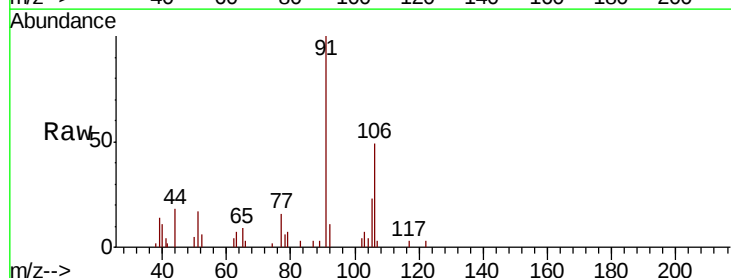


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

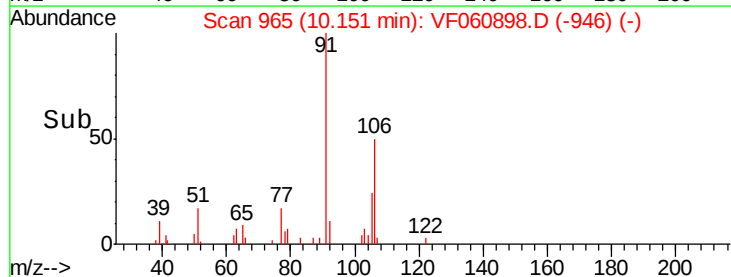
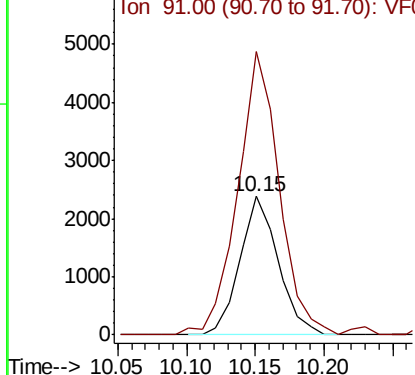


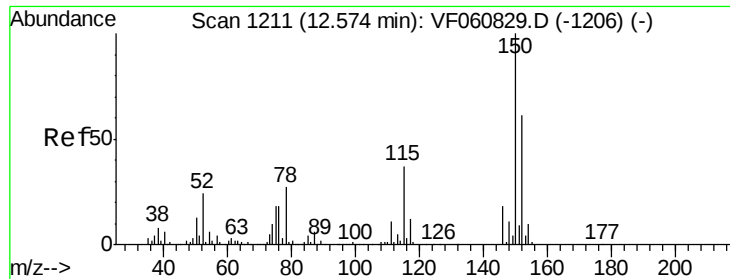
#68
m/p-Xylenes
Concen: 1.241 ug/l
RT: 10.15 min Scan# 965
Delta R.T. -0.02 min
Lab File: VF060898.D
Acq: 3 Dec 2018 18:24

Tgt Ion:106 Resp: 4619
Ion Ratio Lower Upper
106 100
91 204.1 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0



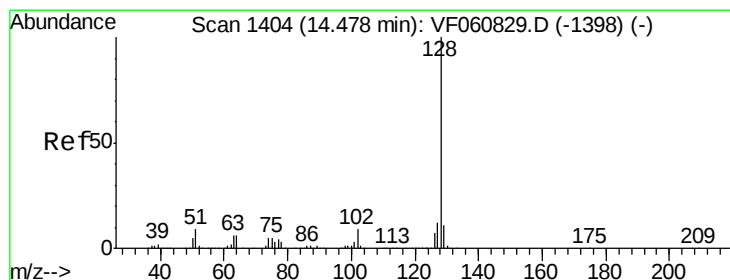
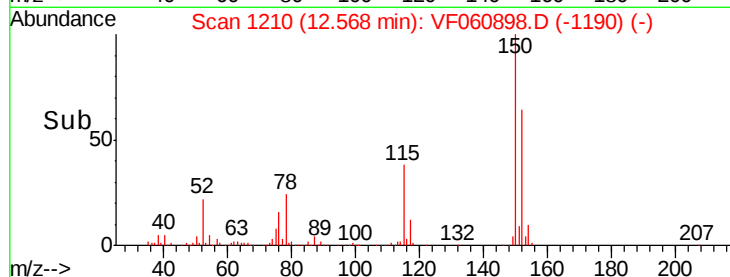
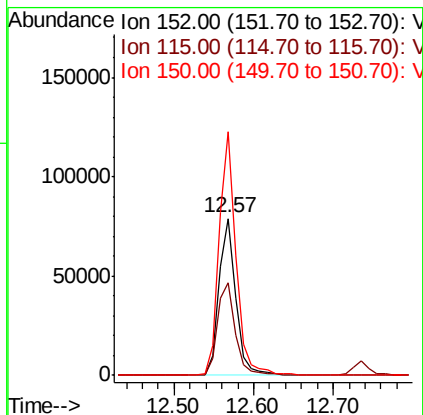
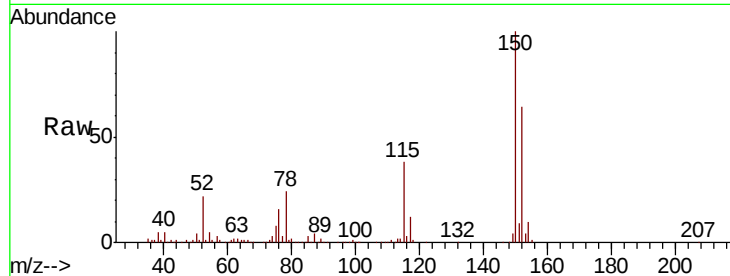


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. -0.01 min
Lab File: VF060898.D
Acq: 3 Dec 2018 18:24

Instrument :
MSVOA_F
ClientSampleId :
TR-04-113018

Tot Ion:152 Resp: 119569
Ion Ratio Lower Upper
152 100
115 58.7 30.1 90.5
150 155.3 0.0 327.6



#95

Naphthalene
Concen: 3.538 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF060898.D
Acq: 3 Dec 2018 18:24

Tgt Ion:128 Resp: 34356
Ion Ratio Lower Upper
128 100
127 11.5 9.9 14.9
129 12.5 9.1 13.7

