

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF110918\
 Data File : VF060673.D
 Acq On : 9 Nov 2018 15:45
 Operator : VA/AP
 Sample : J5864-02
 Misc : 4.35g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OLDMANS-2

Quant Time: Nov 12 04:13:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

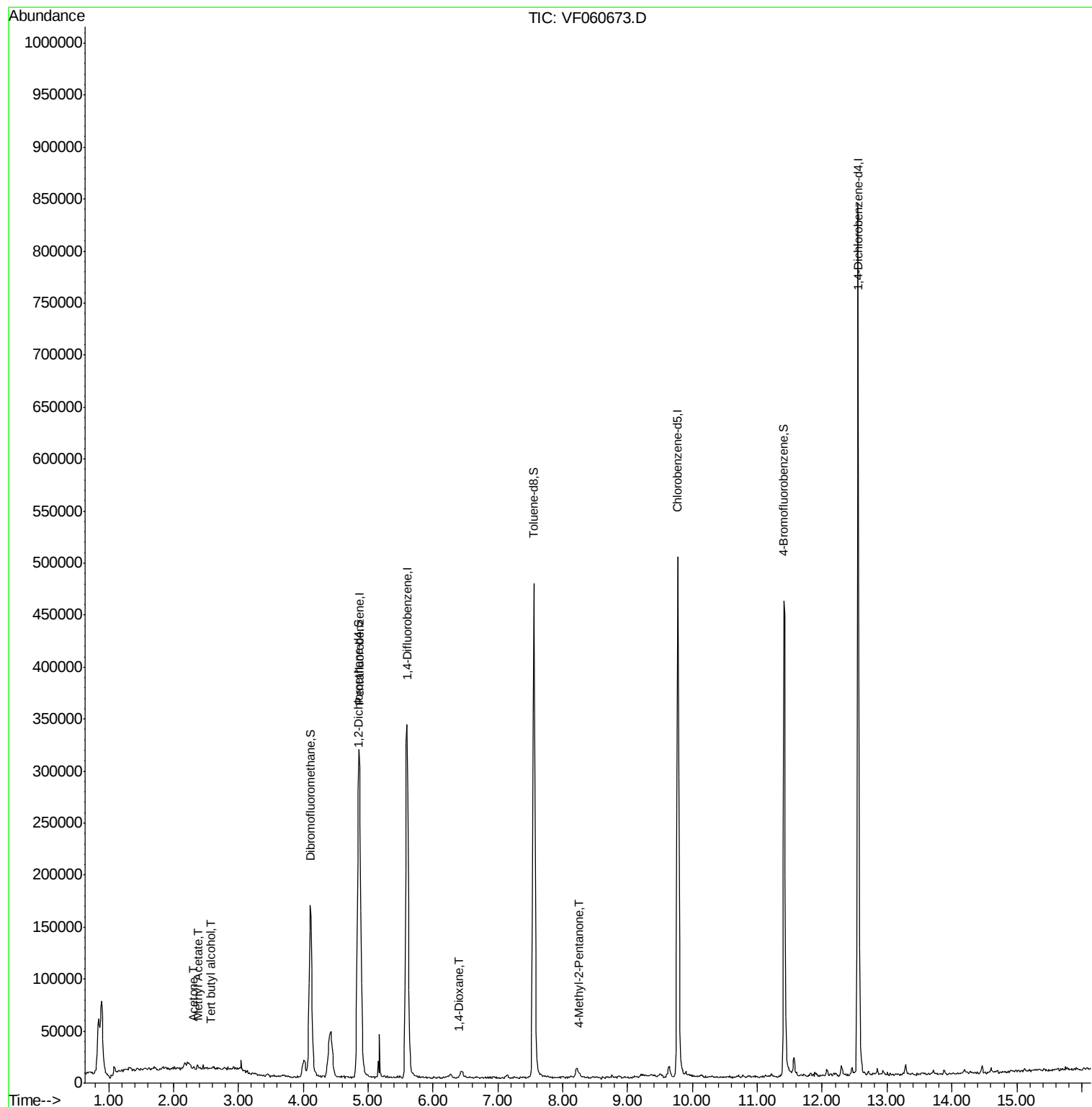
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	240518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	401254	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	379397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	212328	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	135462	55.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.48%	
35) Dibromofluoromethane	4.11	113	158501	51.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.26%	
50) Toluene-d8	7.55	98	410433	44.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.38%	
62) 4-Bromofluorobenzene	11.41	95	195122	48.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.14%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	950	Below Cal		84
6) Chloroethane	1.36	64	62	Below Cal	#	1
11) Tert butyl alcohol	2.57	59	992	1.046 ug/l	#	1
13) Acrolein	2.00	56	175	Below Cal	#	1
16) Acetone	2.31	43	1017	1.776 ug/l		94
18) Methyl Acetate	2.36	43	844	1.419 ug/l	#	64
20) Methylene Chloride	2.19	84	2935	Below Cal		91
25) 2-Butanone	4.33	43	547	Below Cal	#	56
29) Tetrahydrofuran	4.01	42	88	Below Cal	#	34
49) 1,4-Dioxane	6.39	88	77	4.366 ug/l	#	1
51) 4-Methyl-2-Pentanone	8.26	43	4872	2.701 ug/l		92
58) 2-Chloroethyl Vinyl ether	7.65	63	70	Below Cal		100
59) 2-Hexanone	9.49	43	2784	Below Cal		89
74) N-amyl acetate	11.36	43	1621	Below Cal	#	59
89) n-Butylbenzene	12.85	91	2065	Below Cal		85

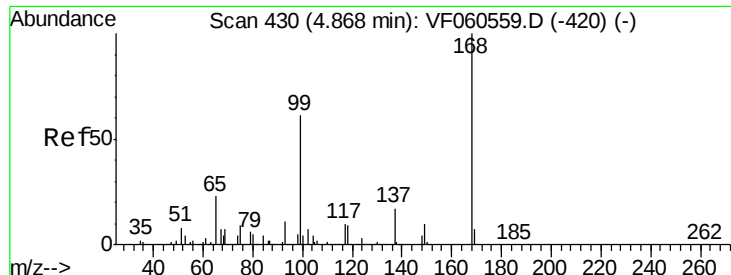
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

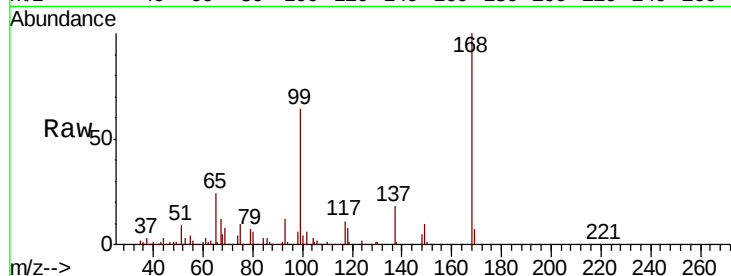
OLDMANS-2

Tgt Ion:168 Resp: 240518

Ion Ratio Lower Upper

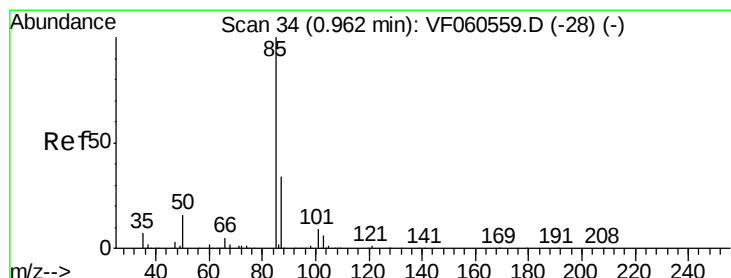
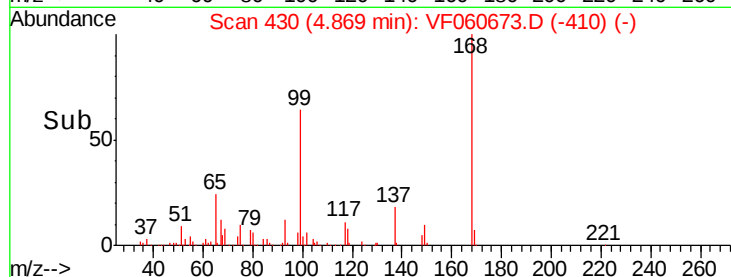
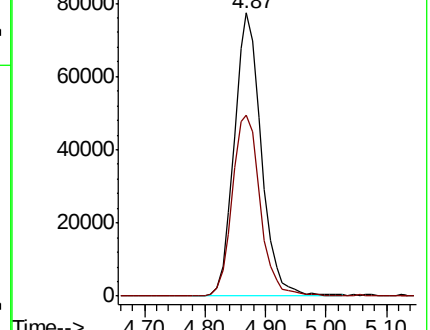
168 100

99 64.1 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060673.D

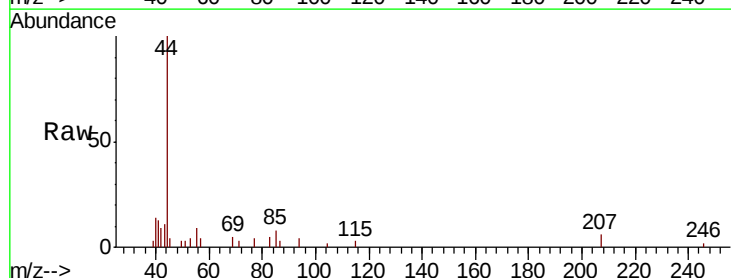
Acq: 9 Nov 2018 15:45

Tgt Ion: 85 Resp: 950

Ion Ratio Lower Upper

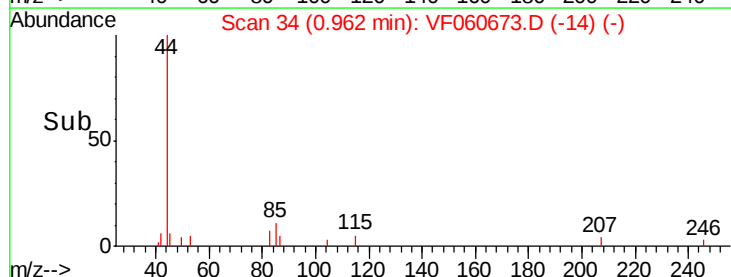
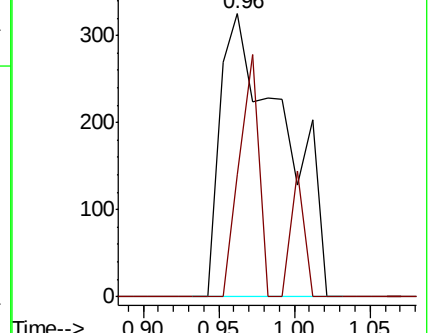
85 100

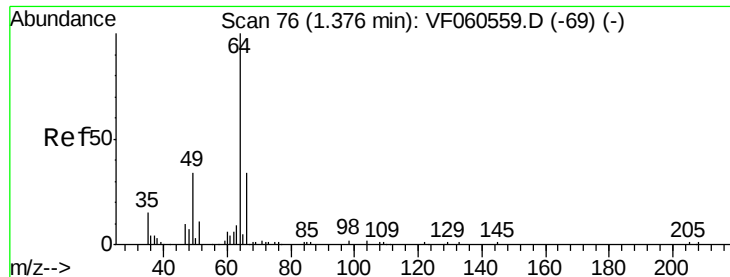
87 43.1 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.36 min Scan# 74

Delta R.T. -0.02 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

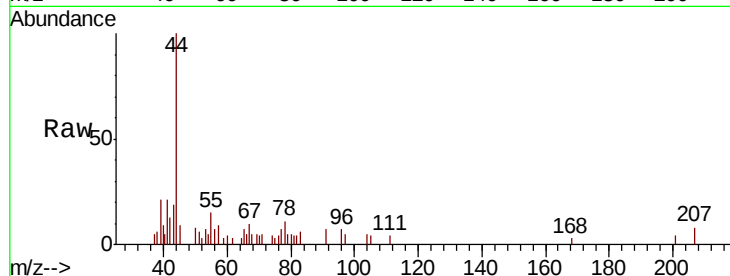
OLDMANS-2

Tgt Ion: 64 Resp: 62

Ion Ratio Lower Upper

64 100

66 139.4 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

250

200

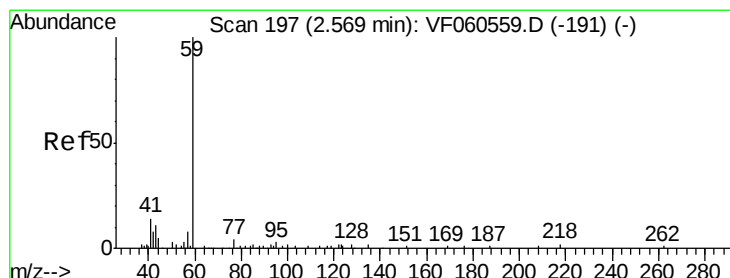
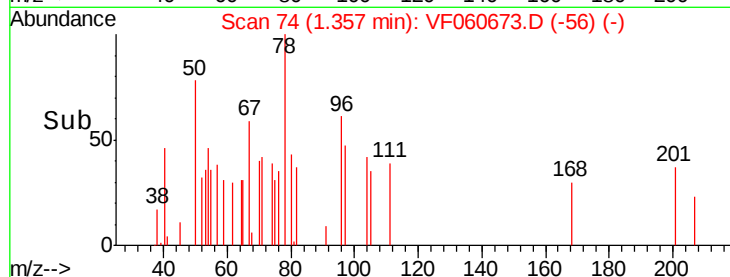
150

100

50

0

Time--> 1.32 1.34 1.36 1.38



#11

Tert butyl alcohol

Concen: 1.046 ug/l

RT: 2.57 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF060673.D

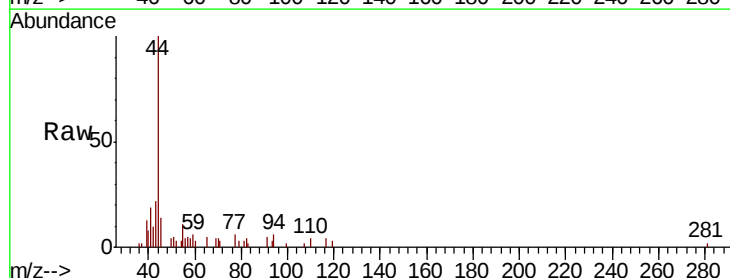
Acq: 9 Nov 2018 15:45

Tgt Ion: 59 Resp: 992

Ion Ratio Lower Upper

59 100

57 88.5 19.0 28.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

400

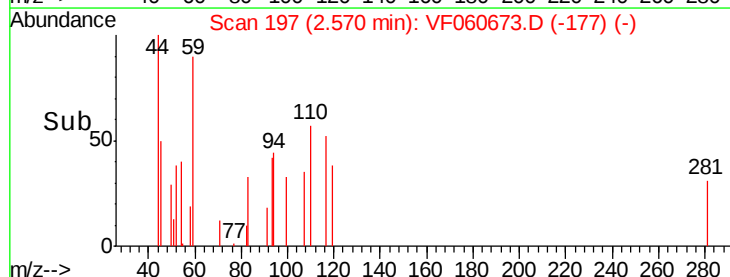
300

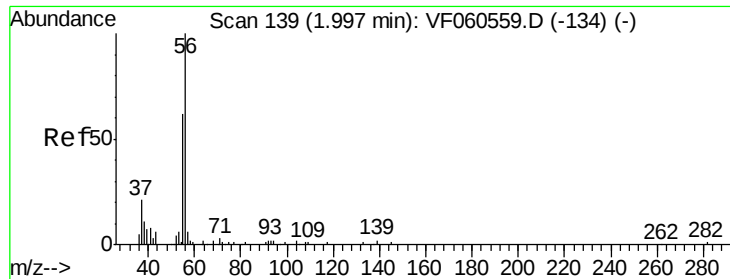
200

100

0

Time--> 2.50 2.55 2.60 2.65





#13

Acrolein

Concen: Below Cal

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

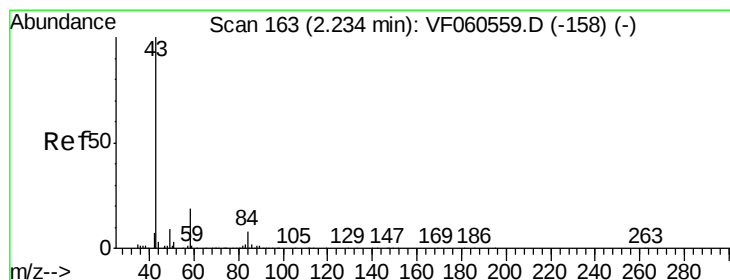
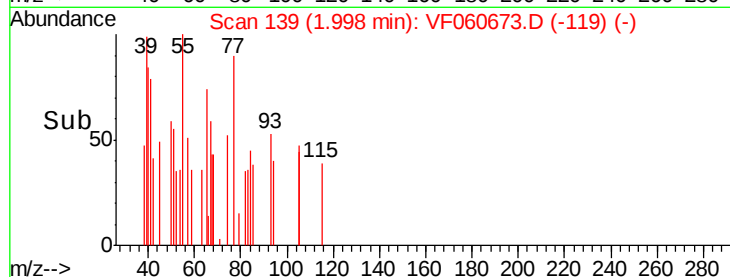
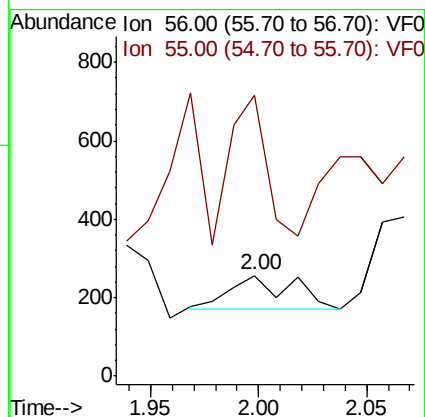
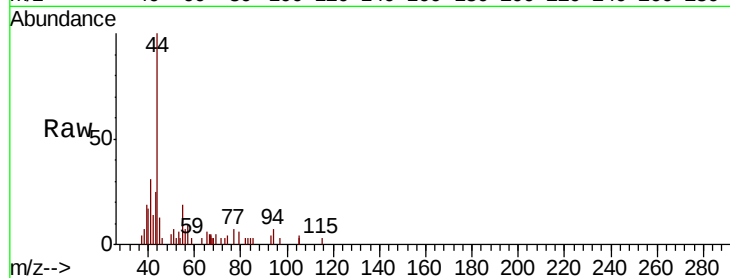
OLDMANS-2

Tgt Ion: 56 Resp: 175

Ion Ratio Lower Upper

56 100

55 278.6 61.8 92.6#



#16

Acetone

Concen: 1.776 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.08 min

Lab File: VF060673.D

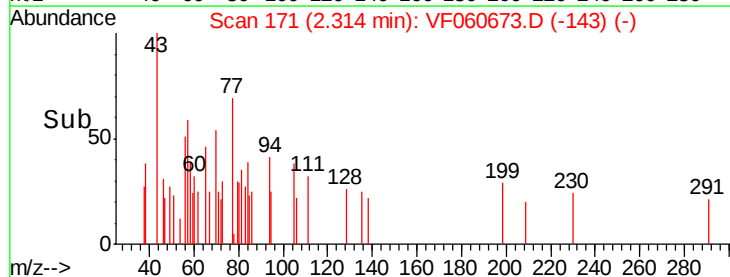
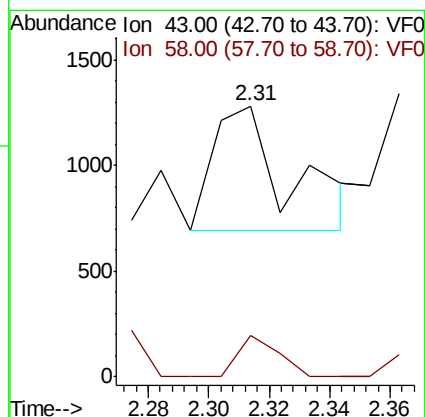
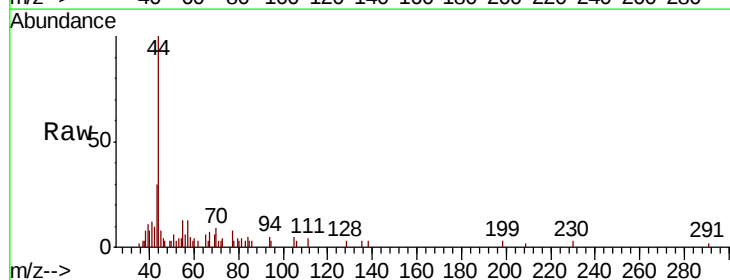
Acq: 9 Nov 2018 15:45

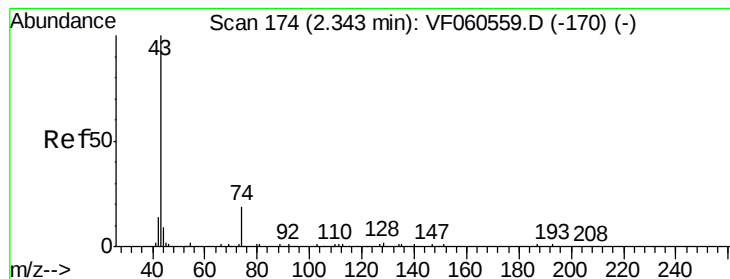
Tgt Ion: 43 Resp: 1017

Ion Ratio Lower Upper

43 100

58 15.5 14.6 22.0





#18

Methyl Acetate

Concen: 1.419 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.02 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

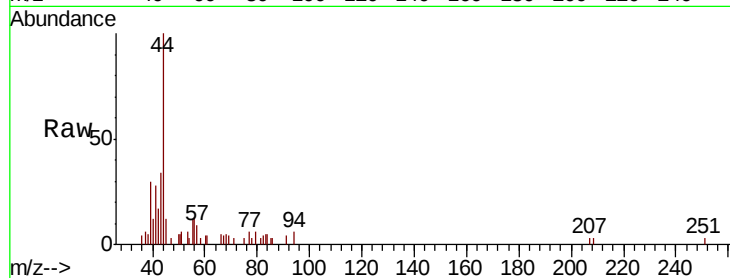
OLDMANS-2

Tgt Ion: 43 Resp: 844

Ion Ratio Lower Upper

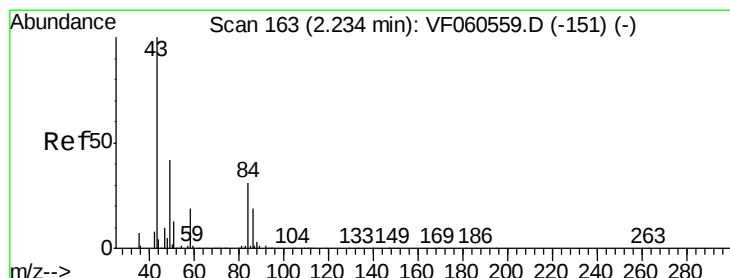
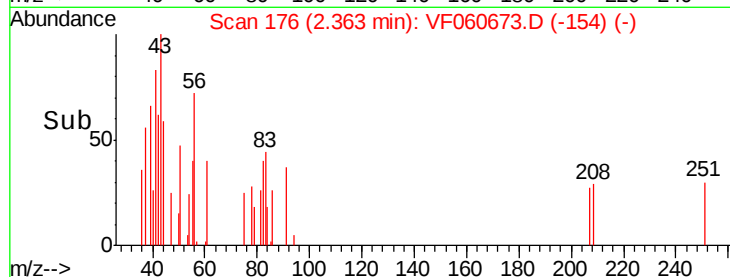
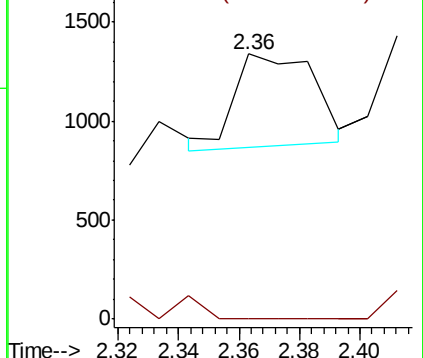
43 100

74 0.0 12.1 18.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.19 min Scan# 158

Delta R.T. -0.05 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Tgt Ion: 84 Resp: 2935

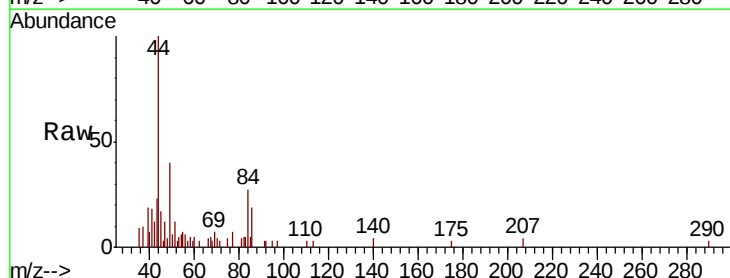
Ion Ratio Lower Upper

84 100

49 149.3 109.9 164.9

51 45.1 35.8 53.8

86 71.4 48.3 72.5

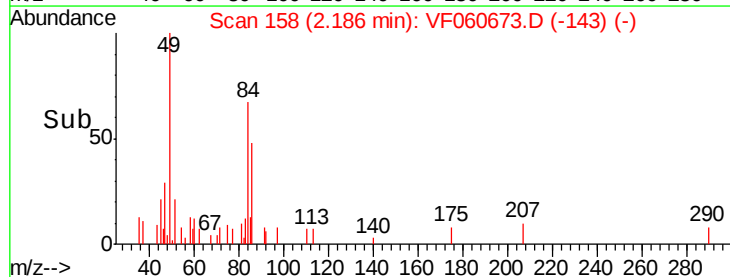
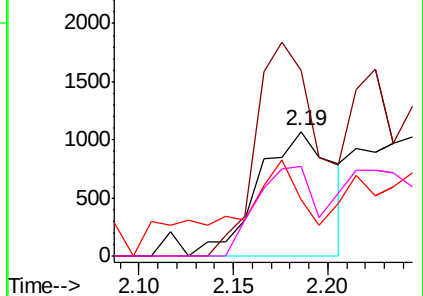


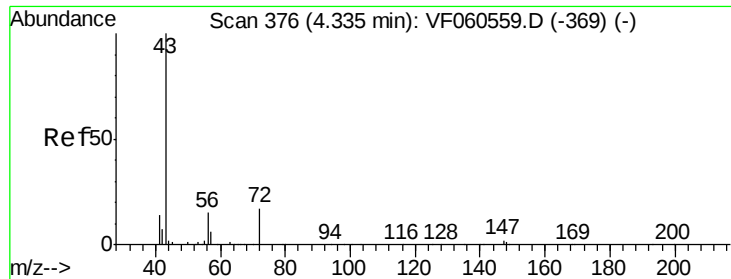
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: Below Cal

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

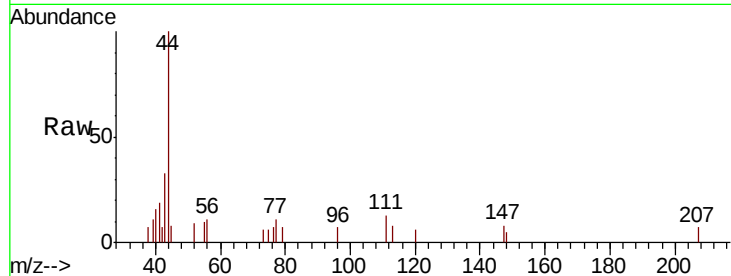
OLDMANS-2

Tgt Ion: 43 Resp: 547

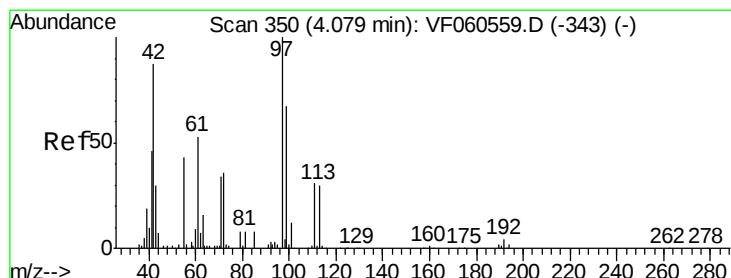
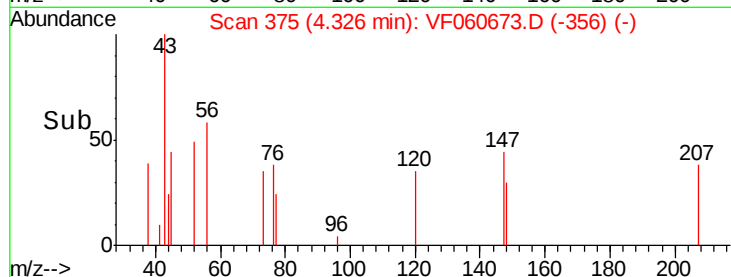
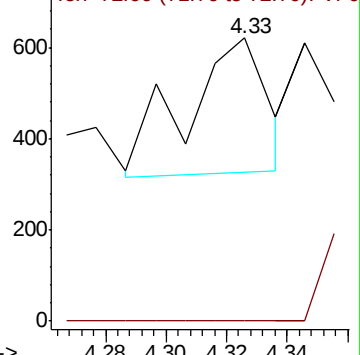
Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.01 min Scan# 343

Delta R.T. -0.07 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

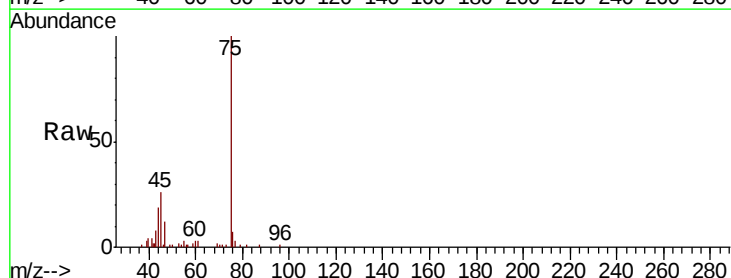
Tgt Ion: 42 Resp: 88

Ion Ratio Lower Upper

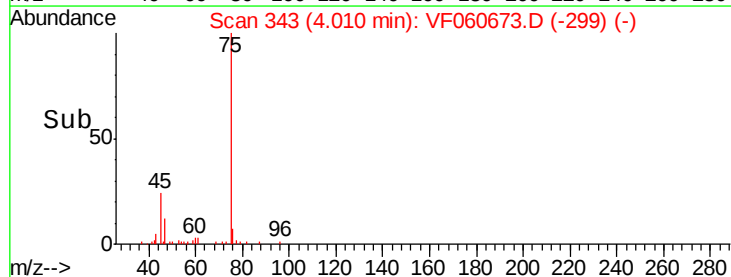
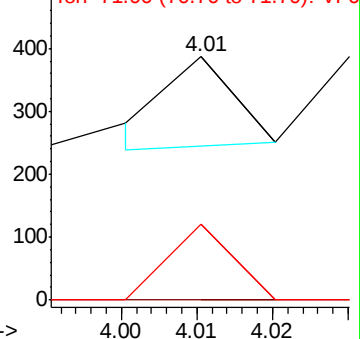
42 100

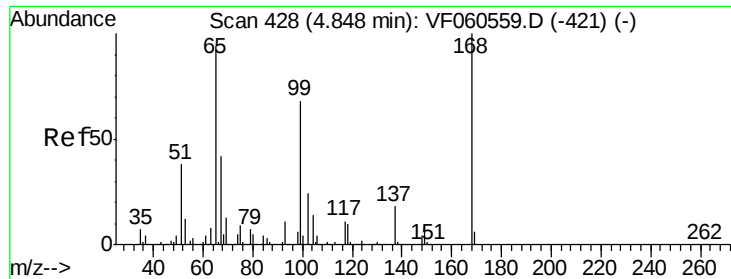
72 0.0 31.4 47.0#

71 81.8 31.8 47.6#



Abundance Ion 42.00 (41.70 to 42.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 55.743 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

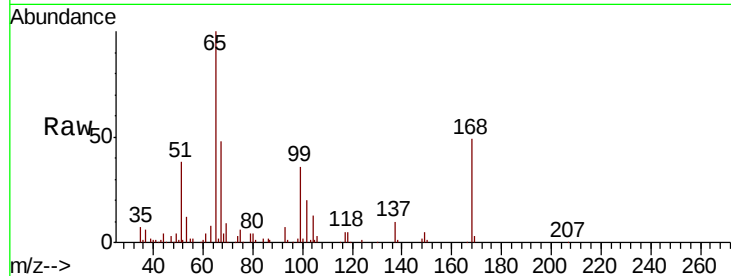
OLDMANS-2

Tgt Ion: 65 Resp: 135462

Ion Ratio Lower Upper

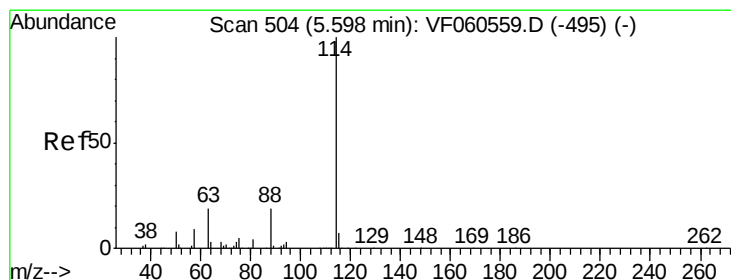
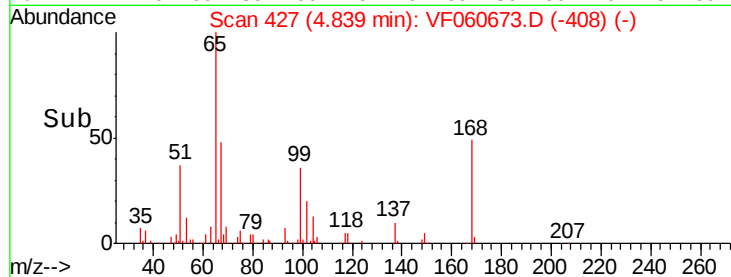
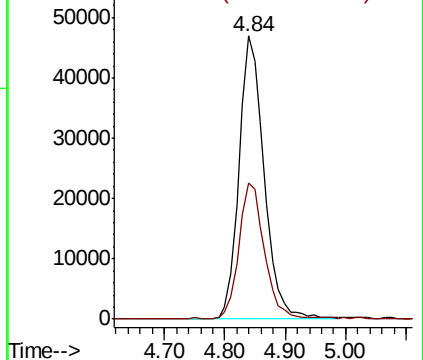
65 100

67 48.3 0.0 101.8



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: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

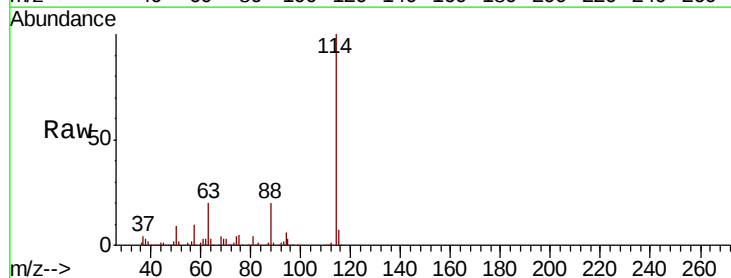
Tgt Ion: 114 Resp: 401254

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.0

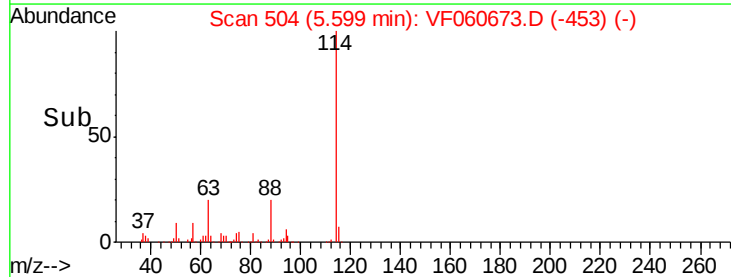
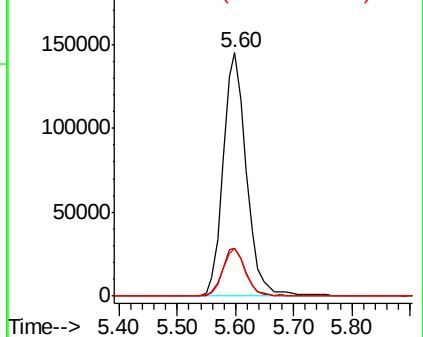
88 19.7 0.0 38.2

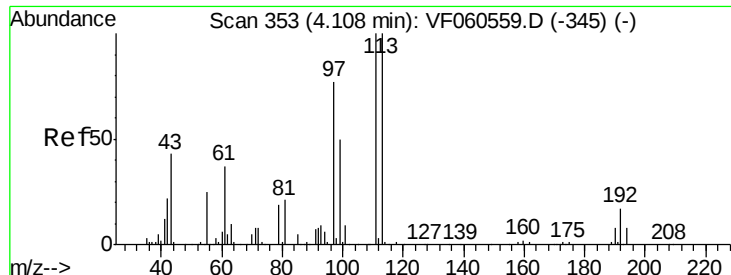


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

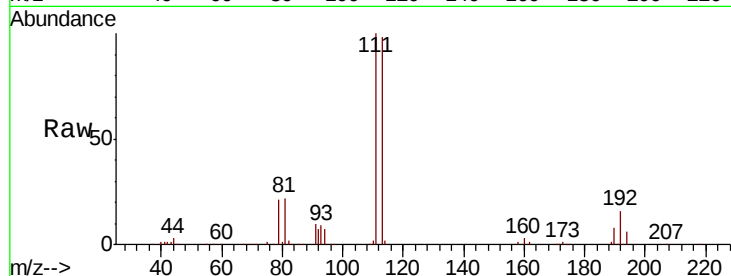




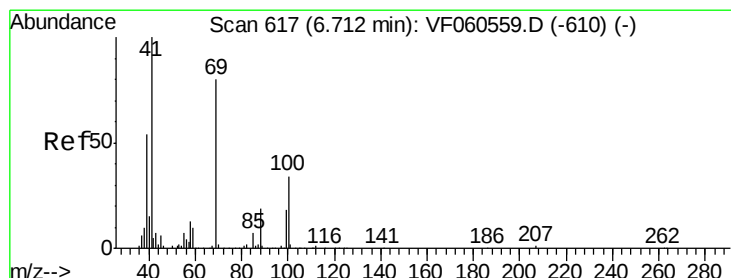
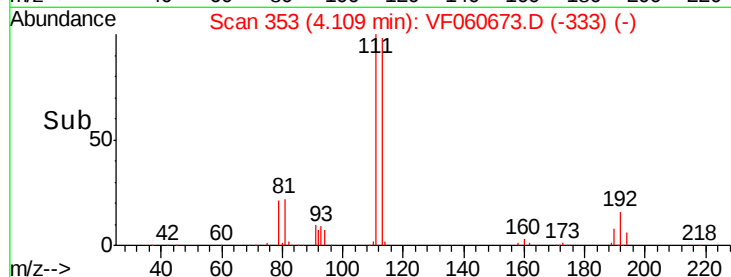
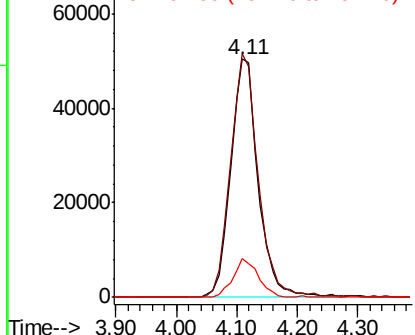
#35
Dibromofluoromethane
Concen: 51.128 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF060673.D
Acq: 9 Nov 2018 15:45

Instrument :
MSVOA_F
ClientSampleId :
OLDMANS-2

Tgt Ion:113 Resp: 158501
Ion Ratio Lower Upper
113 100
111 102.2 79.9 119.9
192 16.6 13.3 19.9

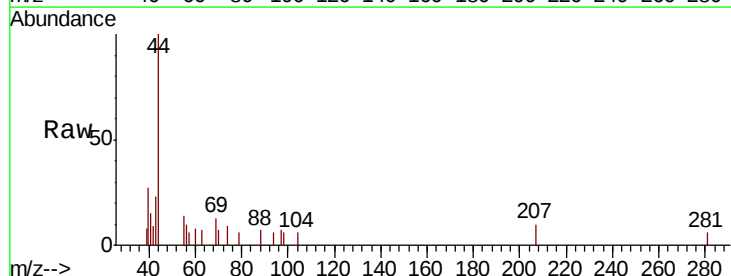


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

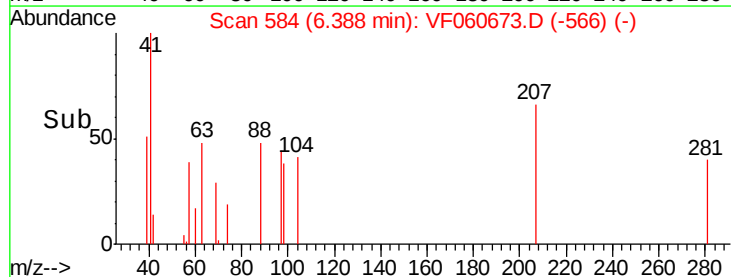
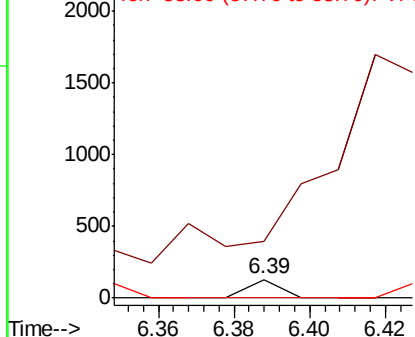


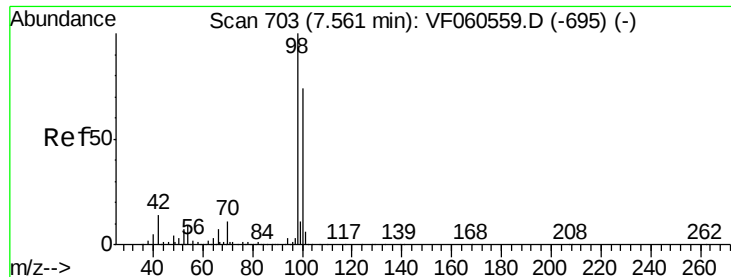
#49
1,4-Dioxane
Concen: 4.366 ug/l
RT: 6.39 min Scan# 584
Delta R.T. -0.32 min
Lab File: VF060673.D
Acq: 9 Nov 2018 15:45

Tgt Ion: 88 Resp: 77
Ion Ratio Lower Upper
88 100
43 304.6 61.2 91.8#
58 0.0 56.9 85.3#



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: 44.693 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

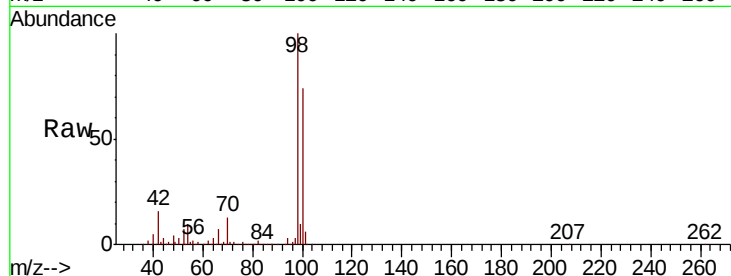
OLDMANS-2

Tgt Ion: 98 Resp: 410433

Ion Ratio Lower Upper

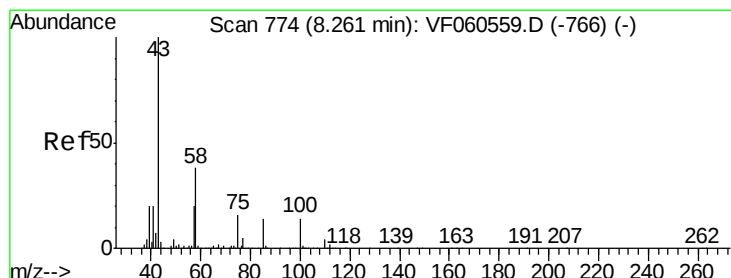
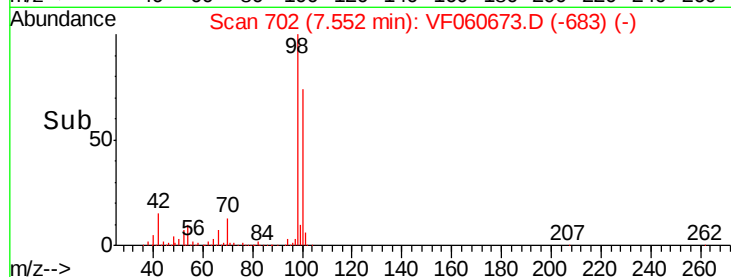
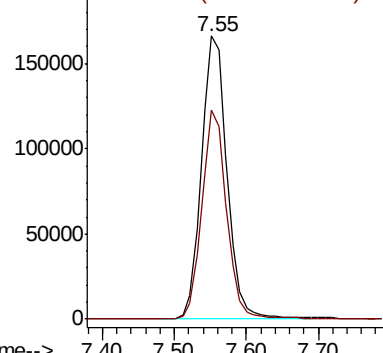
98 100

100 73.9 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#51

4-Methyl-2-Pentanone

Concen: 2.701 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060673.D

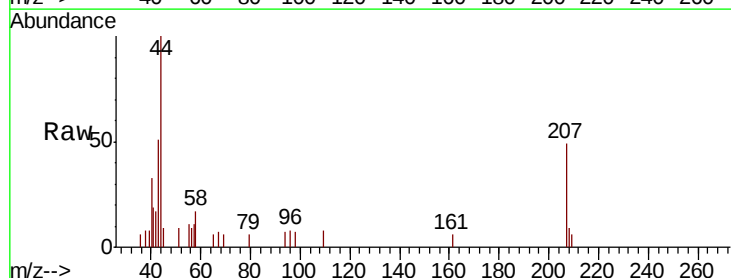
Acq: 9 Nov 2018 15:45

Tgt Ion: 43 Resp: 4872

Ion Ratio Lower Upper

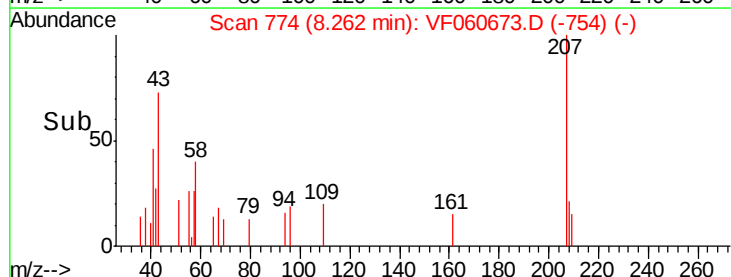
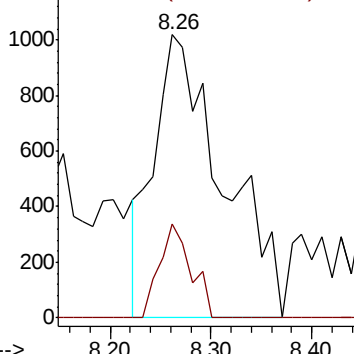
43 100

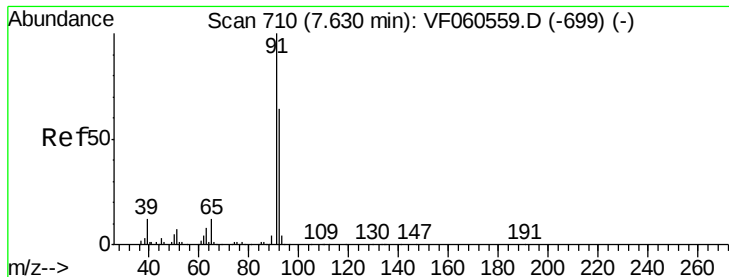
58 33.0 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.65 min Scan# 712

Delta R.T. 0.02 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

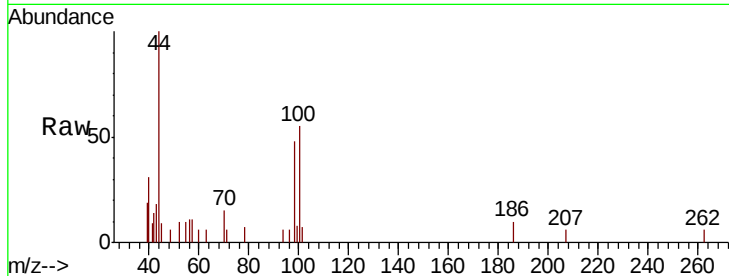
OLDMANS-2

Tgt Ion: 63 Resp: 70

Ion Ratio Lower Upper

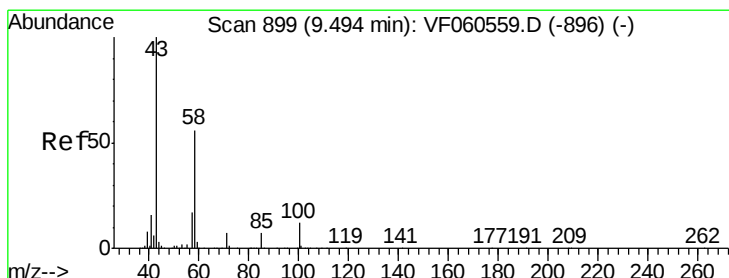
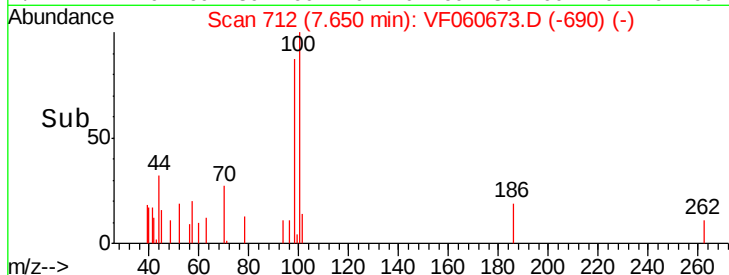
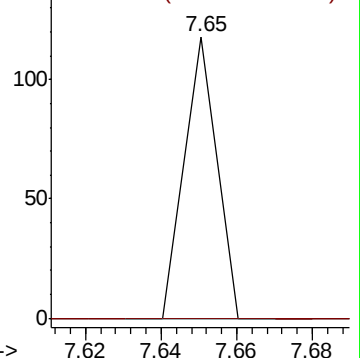
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0



#59

2-Hexanone

Concen: Below Cal

RT: 9.49 min Scan# 899

Delta R.T. 0.00 min

Lab File: VF060673.D

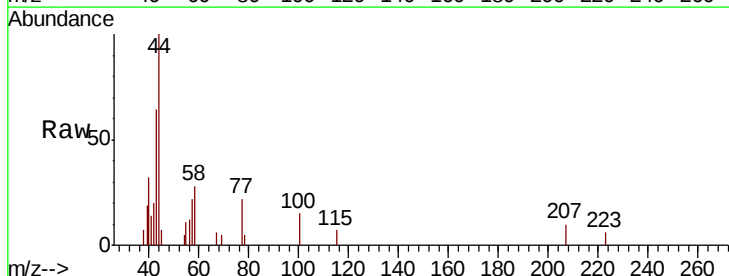
Acq: 9 Nov 2018 15:45

Tgt Ion: 43 Resp: 2784

Ion Ratio Lower Upper

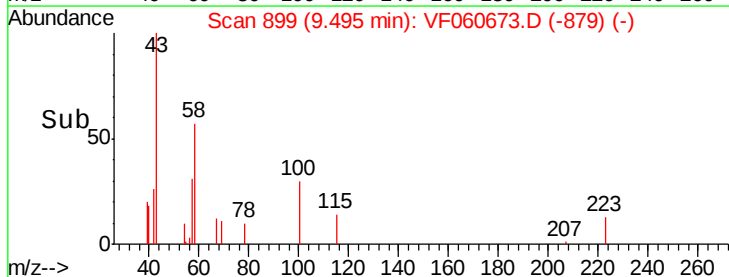
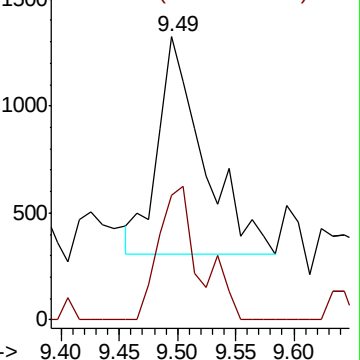
43 100

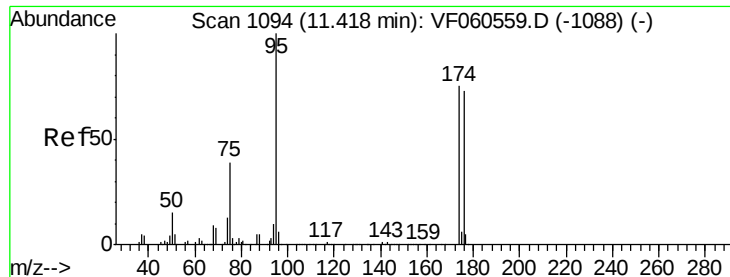
58 44.2 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 48.575 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

OLDMANS-2

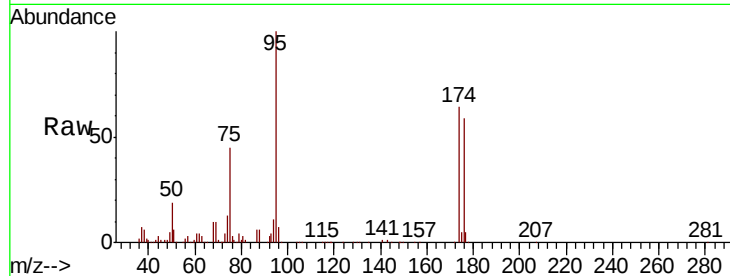
Tgt Ion: 95 Resp: 195122

Ion Ratio Lower Upper

95 100

174 64.1 0.0 149.0

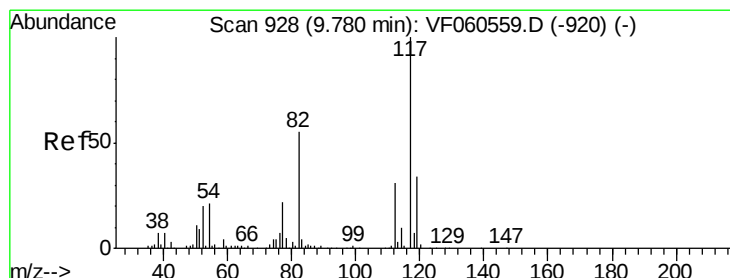
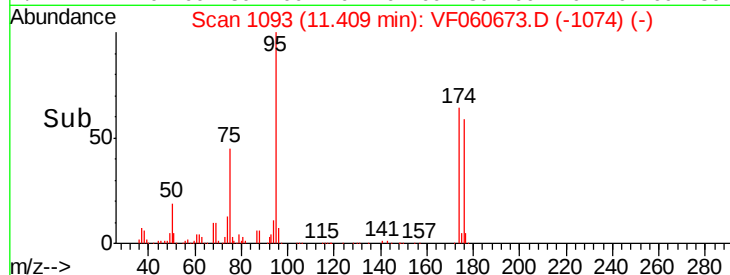
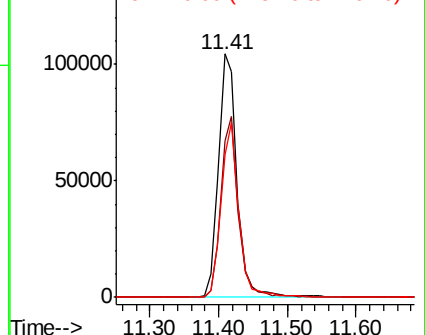
176 58.6 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.00 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

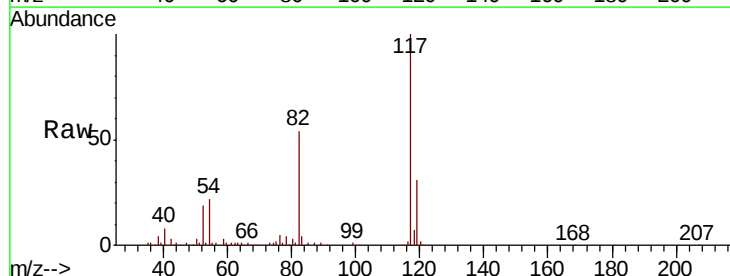
Tgt Ion: 117 Resp: 379397

Ion Ratio Lower Upper

117 100

82 54.3 43.9 65.9

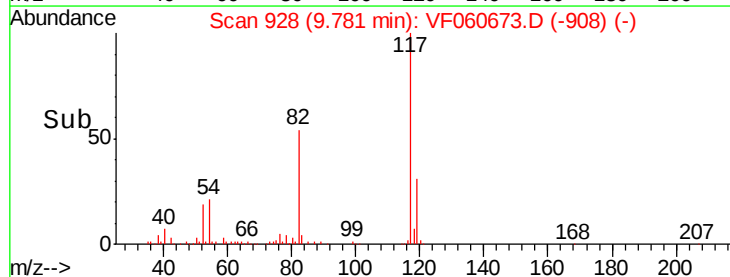
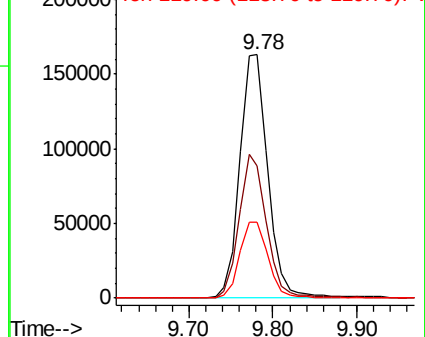
119 31.4 27.4 41.0

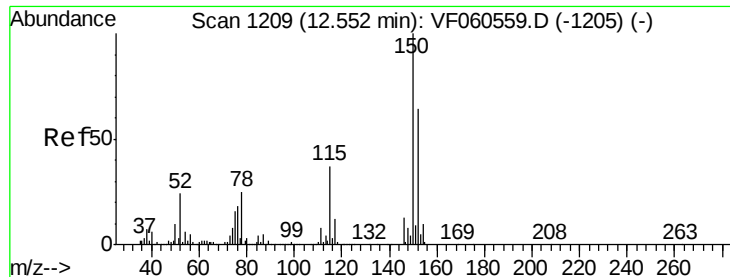


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Instrument :

MSVOA_F

ClientSampleId :

OLDMANS-2

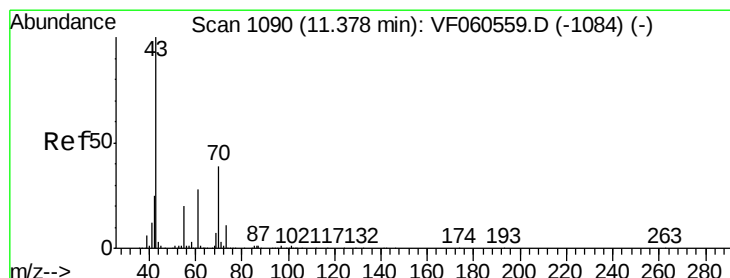
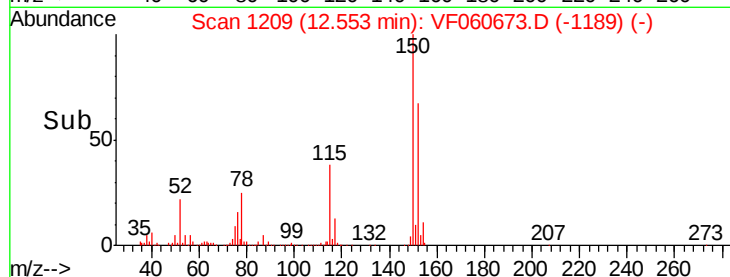
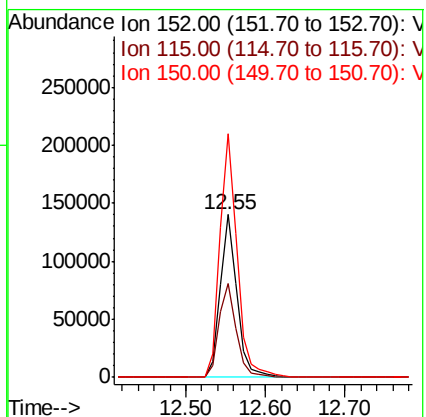
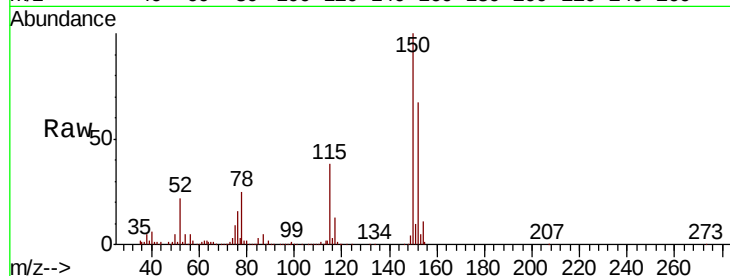
Tgt Ion:152 Resp: 212328

Ion Ratio Lower Upper

152 100

115 57.5 29.6 88.8

150 149.5 0.0 315.6



#74

N-amil acetate

Concen: Below Cal

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF060673.D

Acq: 9 Nov 2018 15:45

Tgt Ion: 43 Resp: 1621

Ion Ratio Lower Upper

43 100

70 22.5 30.9 46.3#

55 45.2 16.6 24.8#

61 0.0 22.0 33.0#

