

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121418\
 Data File : VF061019.D
 Acq On : 14 Dec 2018 14:46
 Operator : VA/AP
 Sample : J6403-05RE
 Misc : 2.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

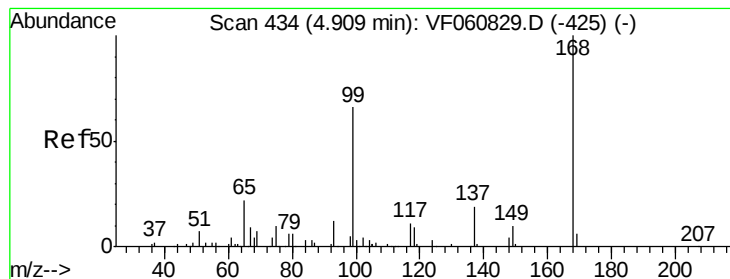
Quant Time: Dec 15 00:06:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	152736	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.58	114	249919	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	209835	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	98011	50.00	ug/l	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	71536	39.76	ug/l	-0.04
Spiked Amount			Recovery	=	79.52%	
35) Dibromofluoromethane	4.10	113	79945	40.32	ug/l	-0.05
Spiked Amount			Recovery	=	80.64%	
50) Toluene-d8	7.55	98	219326	37.55	ug/l	-0.05
Spiked Amount			Recovery	=	75.10%	
62) 4-Bromofluorobenzene	11.40	95	93507	35.23	ug/l	-0.04
Spiked Amount			Recovery	=	70.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	539	7.308	ug/l #	1
13) Acrolein	1.92	56	1031	14.753	ug/l	92
15) Acrylonitrile	2.95	53	340	2.056	ug/l #	30
16) Acetone	2.23	43	27245	82.113	ug/l	100
18) Methyl Acetate	2.34	43	2111	2.214	ug/l #	61
20) Methylene Chloride	2.21	84	4009	3.294	ug/l	93
25) 2-Butanone	4.33	43	4791	8.348	ug/l	94
29) Tetrahydrofuran	4.09	42	1033	4.246	ug/l #	57
41) Methacrylonitrile	4.74	41	382	Below Cal	#	50
43) Isopropyl Acetate	6.91	43	268	Below Cal	#	49
49) 1,4-Dioxane	6.32	88	86	11.524	ug/l #	33
51) 4-Methyl-2-Pentanone	8.26	43	1737	1.672	ug/l #	38
59) 2-Hexanone	9.49	43	1407	1.931	ug/l	86
95) Naphthalene	14.45	128	1653	Below Cal	#	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.05 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

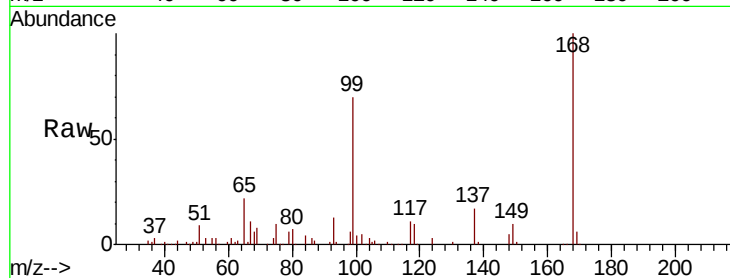
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 152736

Ion Ratio Lower Upper

168 100

99 69.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

50000

40000

30000

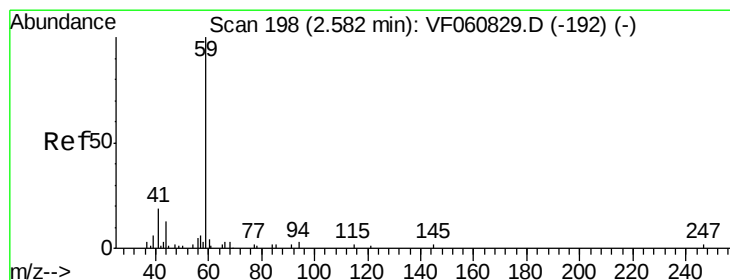
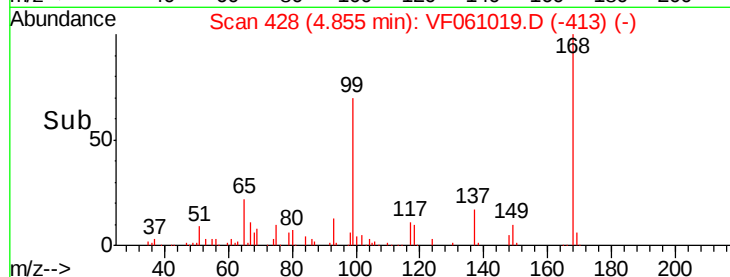
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 7.308 ug/l

RT: 2.57 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF061019.D

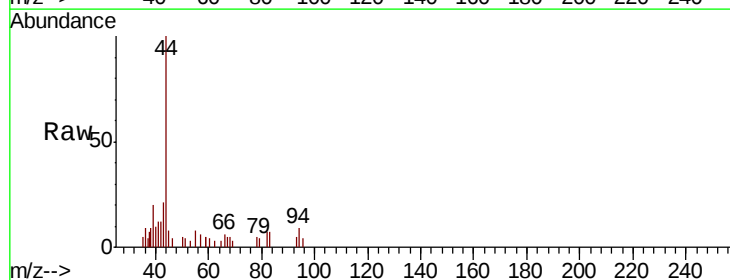
Acq: 14 Dec 2018 14:46

Tgt Ion: 59 Resp: 539

Ion Ratio Lower Upper

59 100

57 60.2 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

400

300

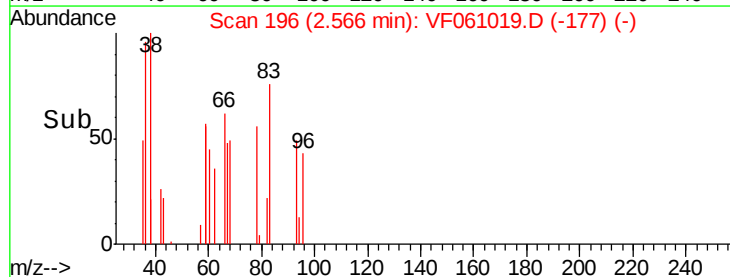
200

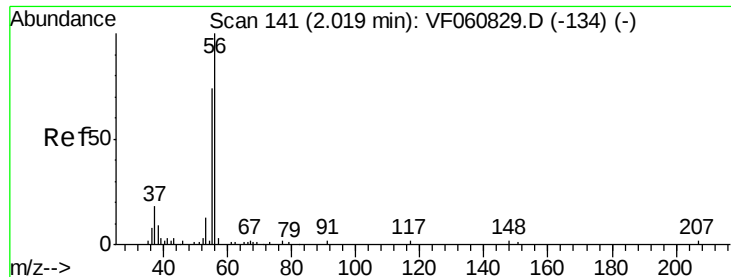
100

0

Time-->

2.50 2.55 2.60 2.65





#13

Acrolein

Concen: 14.753 ug/l

RT: 1.92 min Scan# 130

Delta R.T. -0.10 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

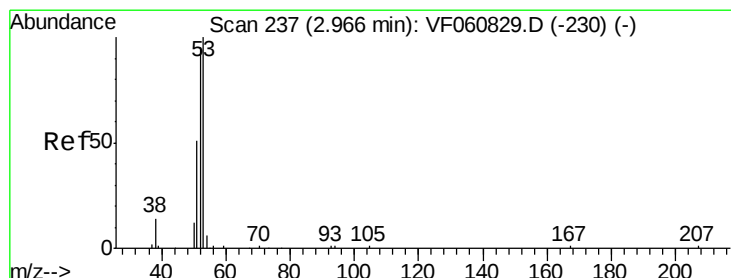
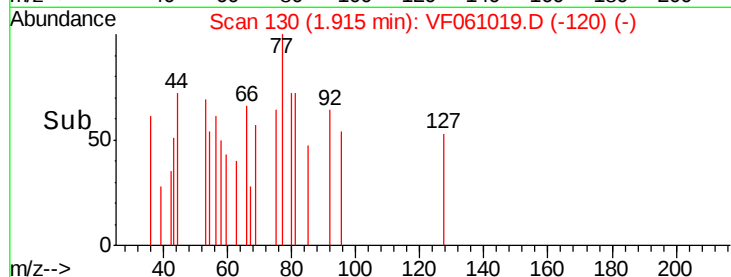
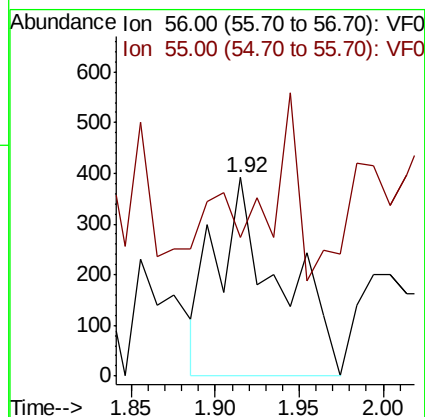
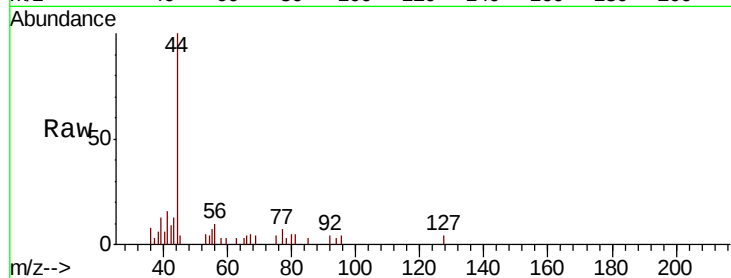
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 1031

Ion Ratio Lower Upper

56 100

55 69.6 61.2 91.8



#15

Acrylonitrile

Concen: 2.056 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

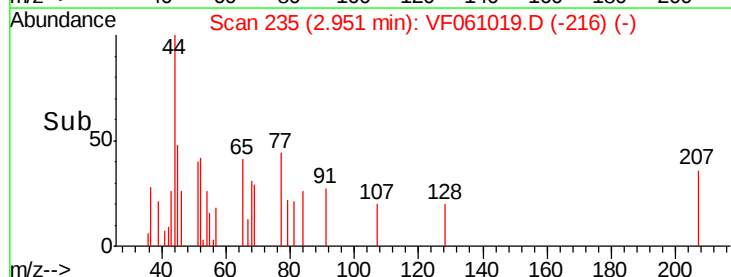
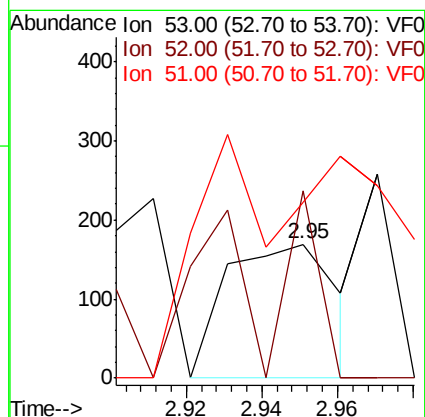
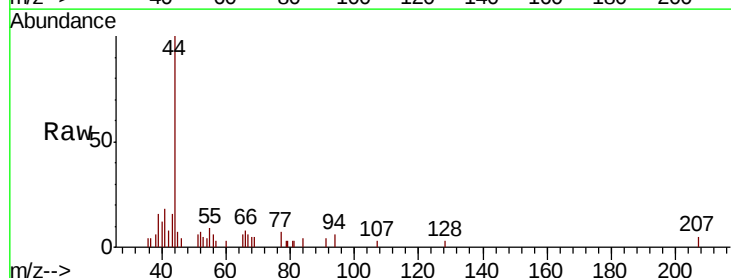
Tgt Ion: 53 Resp: 340

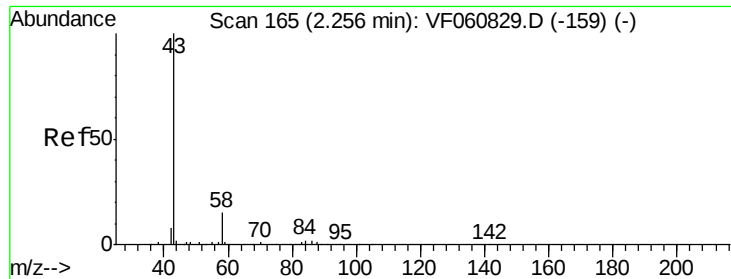
Ion Ratio Lower Upper

53 100

52 140.2 76.5 114.7#

51 131.4 40.7 61.1#





#16

Acetone

Concen: 82.113 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

Instrument :

MSVOA_F

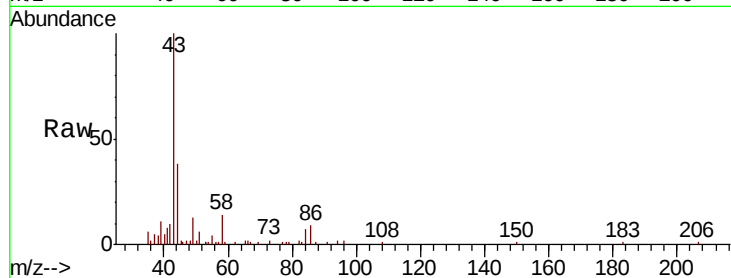
ClientSampleId :

Tot Ion: 43 Resp: 27245

Ion Ratio Lower Upper

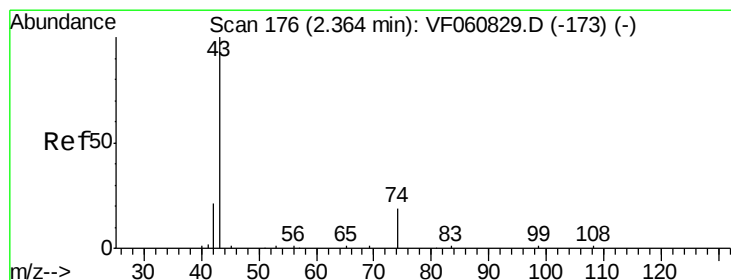
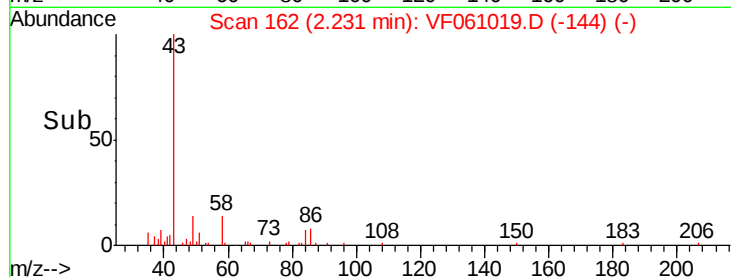
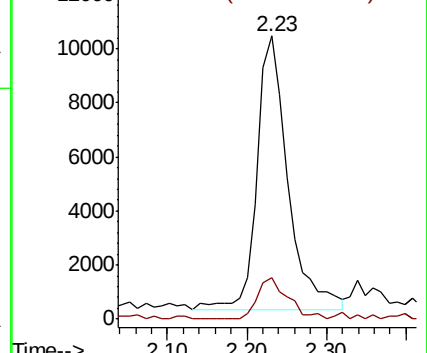
43 100

58 14.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 2.214 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061019.D

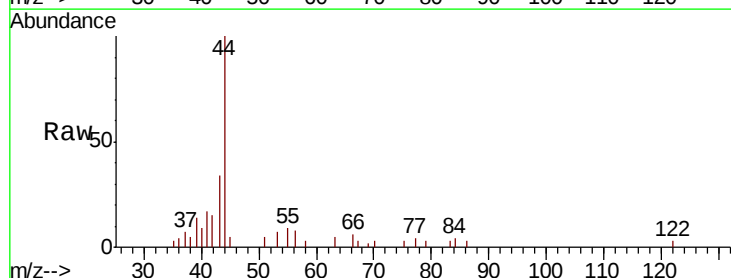
Acq: 14 Dec 2018 14:46

Tgt Ion: 43 Resp: 2111

Ion Ratio Lower Upper

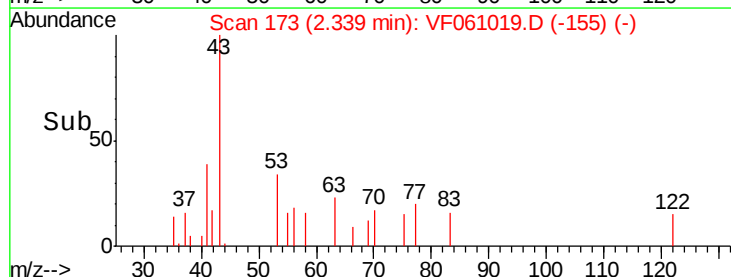
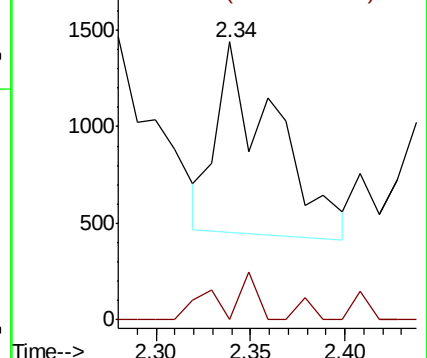
43 100

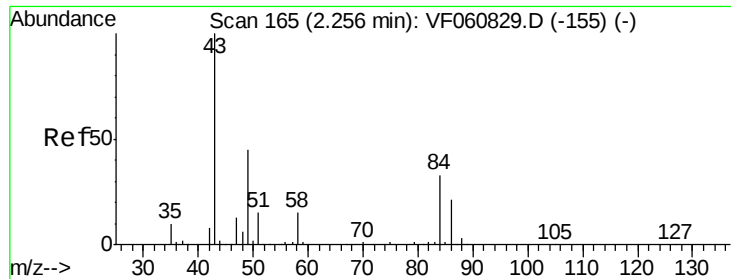
74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

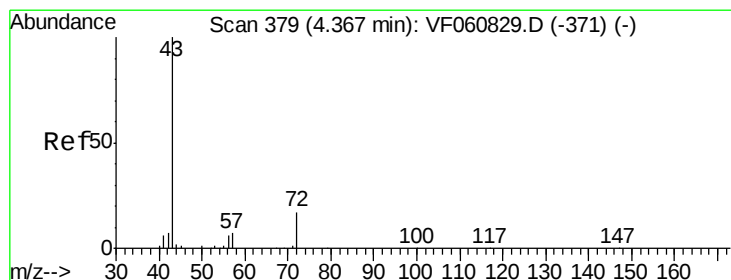
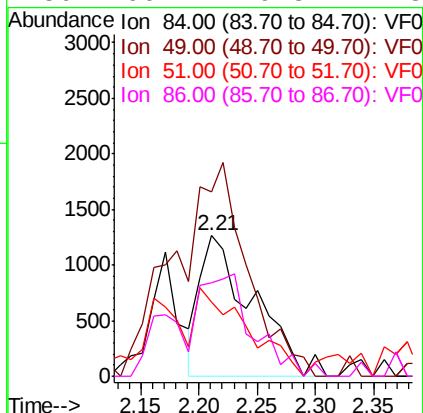
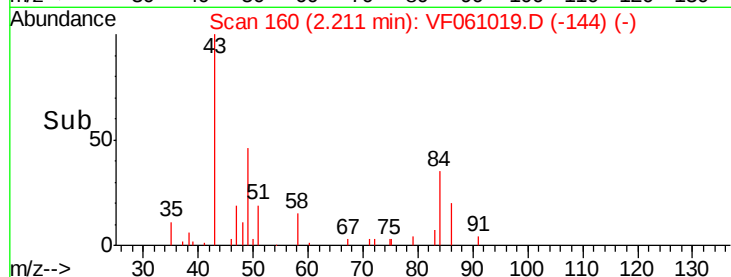
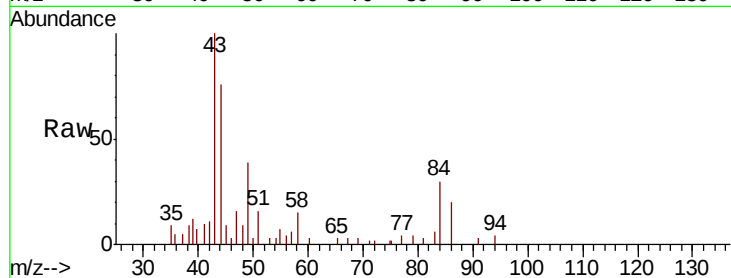




#20
Methvlene Chloride
Concen: 3.294 ug/l
RT: 2.21 min Scan# 160
Delta R.T. -0.04 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

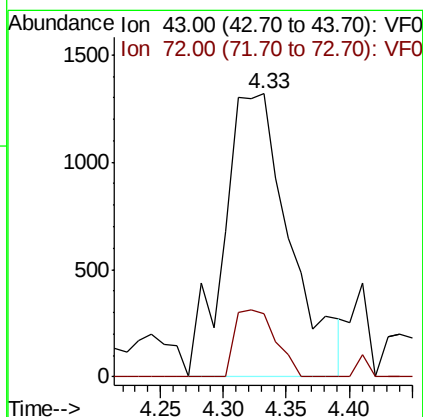
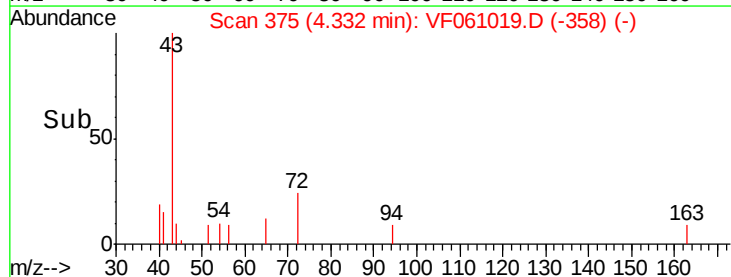
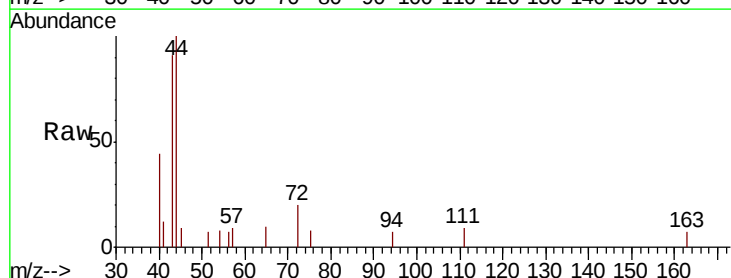
Instrument :
MSVOA_F
ClientSampled :

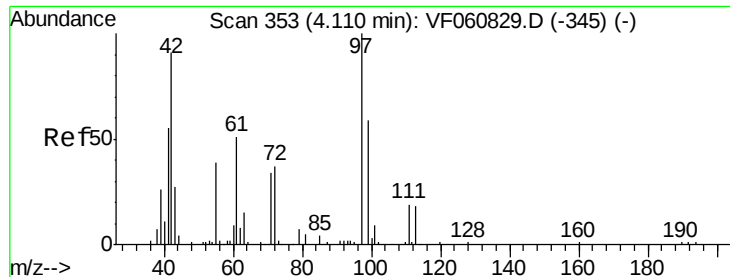
Tot Ion: 84 Resp: 4009
Ion Ratio Lower Upper
84 100
49 131.2 111.3 166.9
51 53.0 38.0 57.0
86 66.7 49.8 74.8



#25
2-Butanone
Concen: 8.348 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.04 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

Tgt Ion: 43 Resp: 4791
Ion Ratio Lower Upper
43 100
72 22.1 15.4 23.2

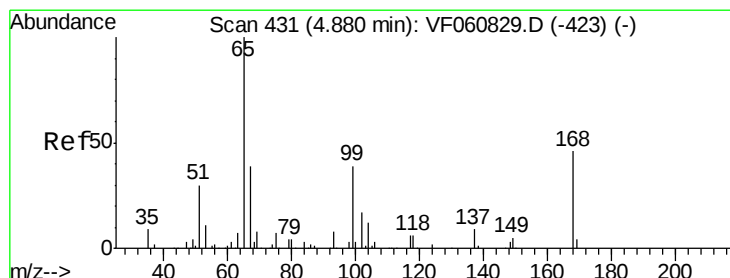
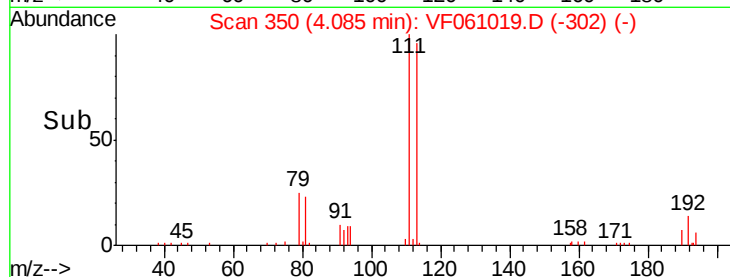
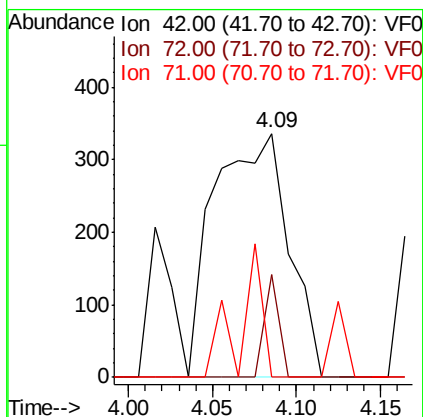
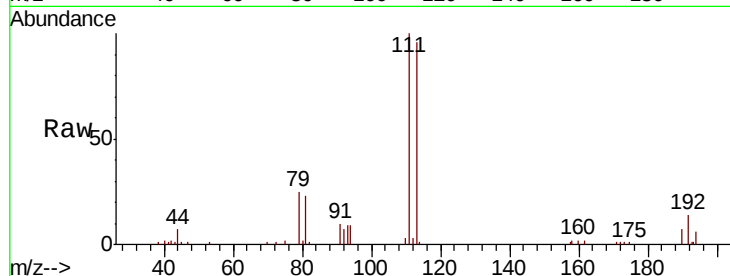




#29
Tetrahydrofuran
Concen: 4.246 ug/l
RT: 4.09 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

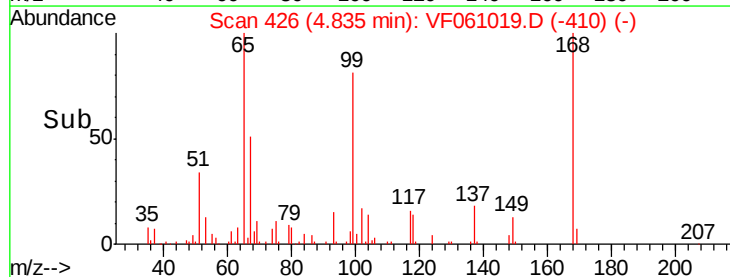
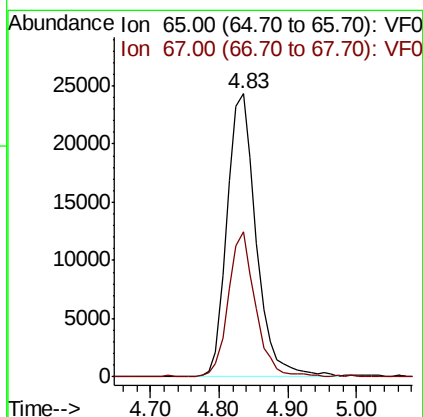
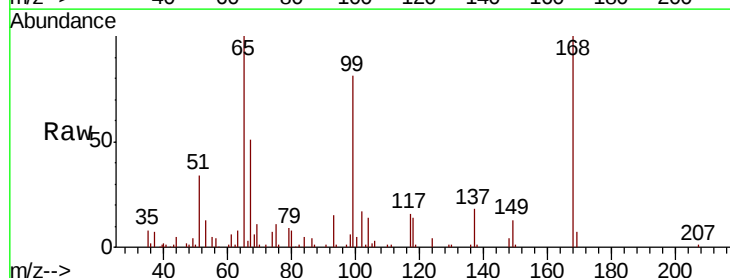
Instrument :
MSVOA_F
ClientSampled :

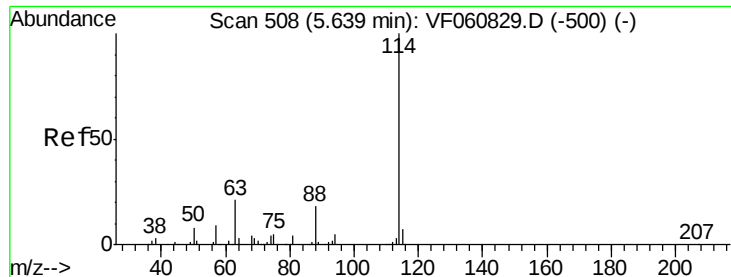
Tot Ion: 42 Resp: 1033
Ion Ratio Lower Upper
42 100
72 8.0 31.9 47.9#
71 16.7 28.7 43.1#



#33
1,2-Dichloroethane-d4
Concen: 39.758 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.04 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

Tgt Ion: 65 Resp: 71536
Ion Ratio Lower Upper
65 100
67 51.2 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.05 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

Instrument :

MSVOA_F

ClientSampleId :

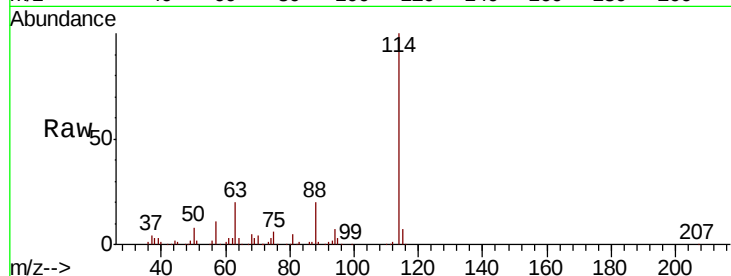
Tot Ion:114 Resp: 249919

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.6

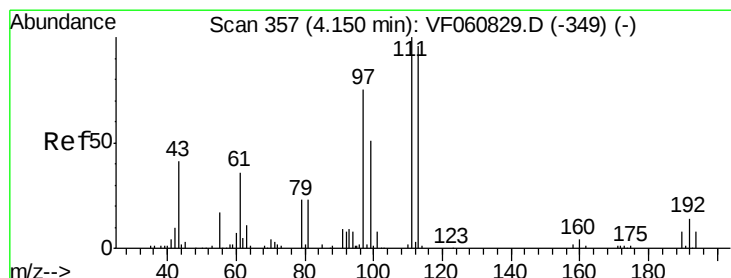
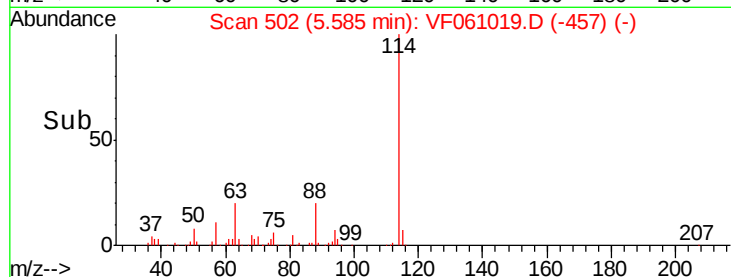
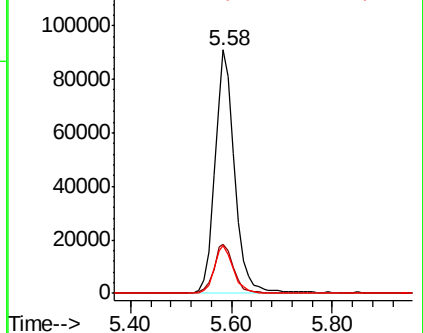
88 19.6 0.0 36.6



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: 40.322 ug/l

RT: 4.10 min Scan# 351

Delta R.T. -0.05 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

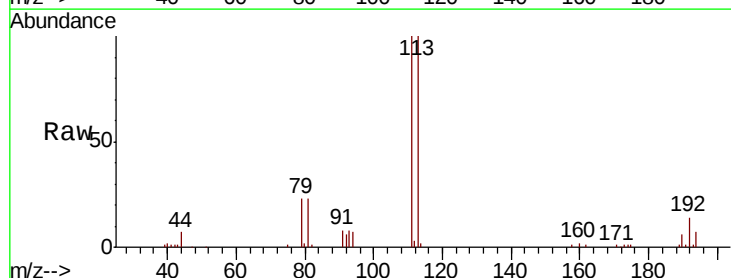
Tgt Ion:113 Resp: 79945

Ion Ratio Lower Upper

113 100

111 98.0 83.0 124.6

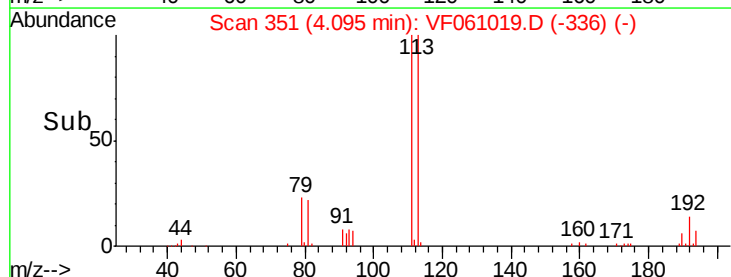
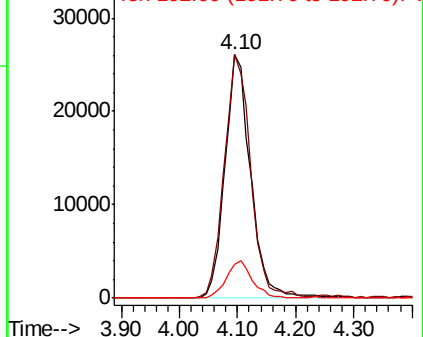
192 13.5 12.3 18.5

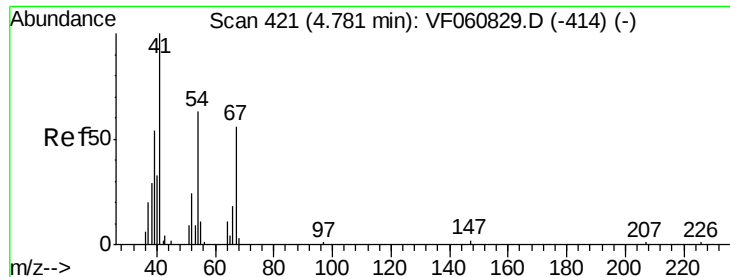


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

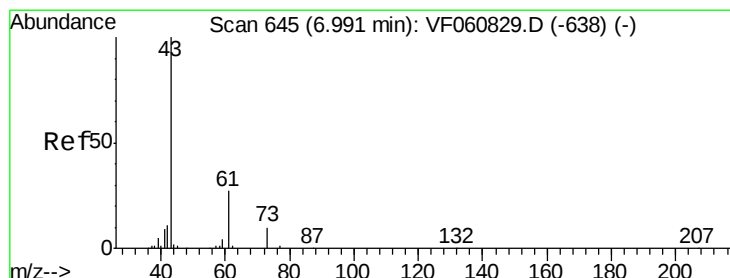
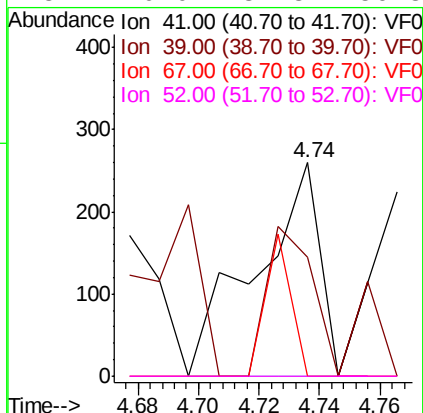
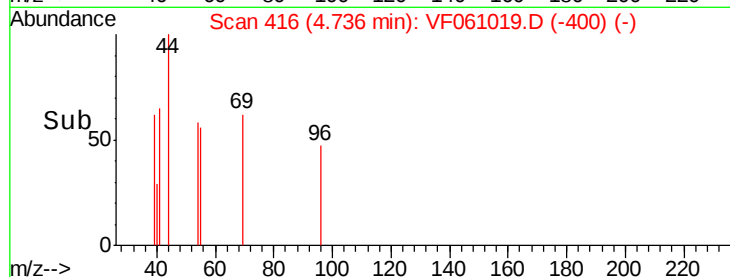
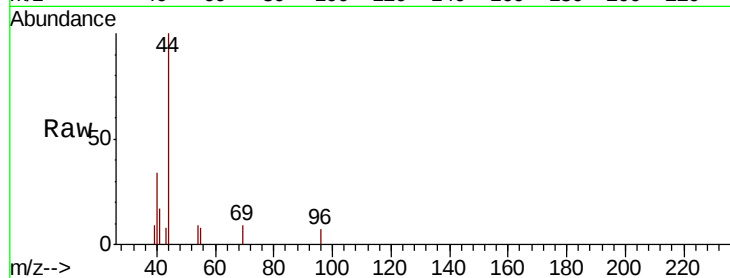




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 416
Delta R.T. -0.04 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

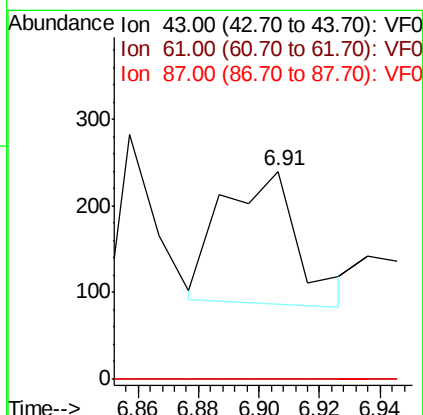
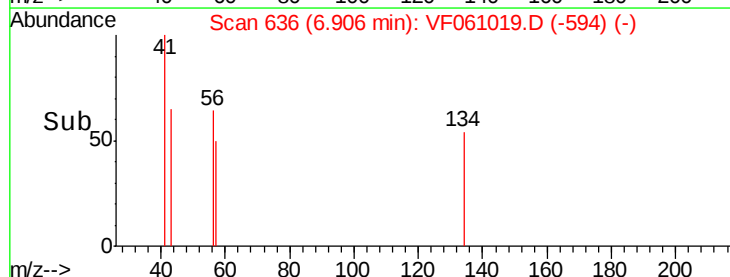
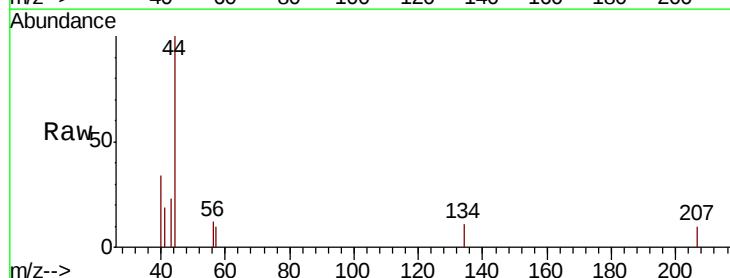
Instrument :
MSVOA_F
ClientSampleID :

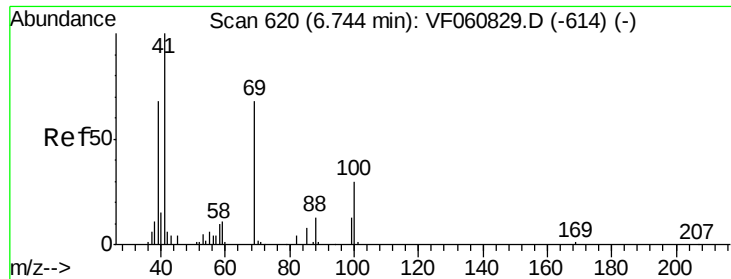
Tot Ion: 41 Resp: 382
Ion Ratio Lower Upper
41 100
39 55.8 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.91 min Scan# 636
Delta R.T. -0.08 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

Tgt Ion: 43 Resp: 268
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#





#49

1,4-Dioxane

Concen: 11.524 ug/l

RT: 6.32 min Scan# 577

Delta R.T. -0.42 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

Instrument :
MSVOA_F
ClientSampleId :

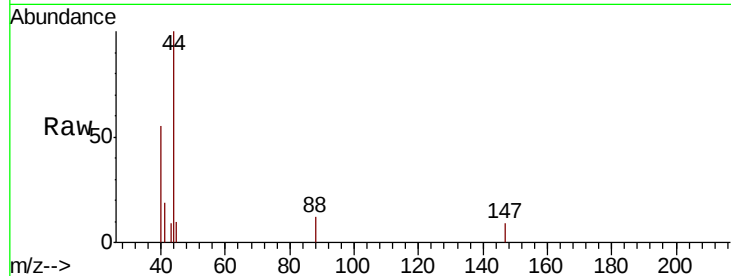
Tot Ion: 88 Resp: 86

Ion Ratio Lower Upper

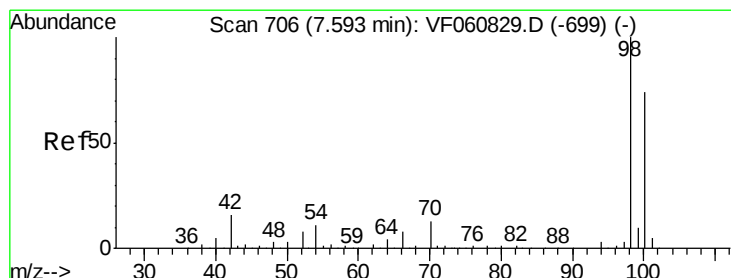
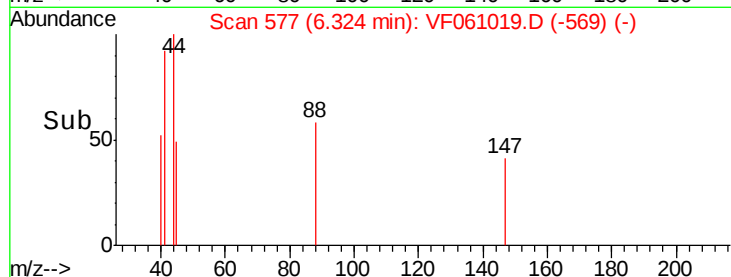
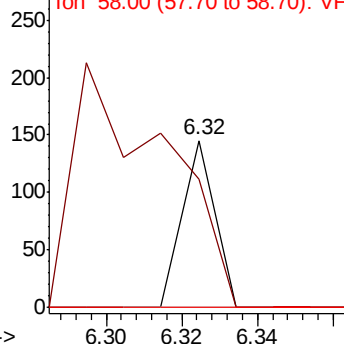
88 100

43 76.6 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: 37.554 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.05 min

Lab File: VF061019.D

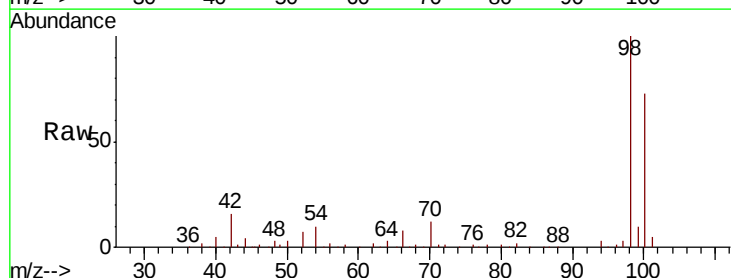
Acq: 14 Dec 2018 14:46

Tgt Ion: 98 Resp: 219326

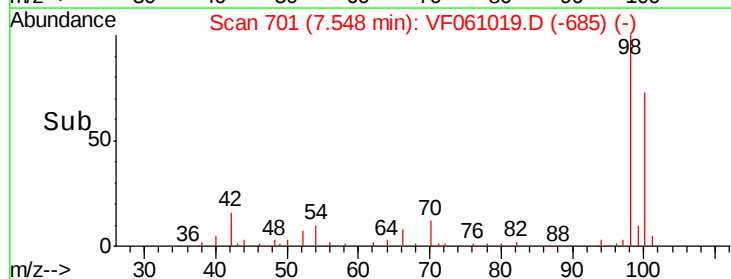
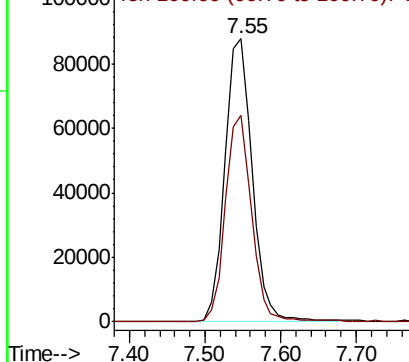
Ion Ratio Lower Upper

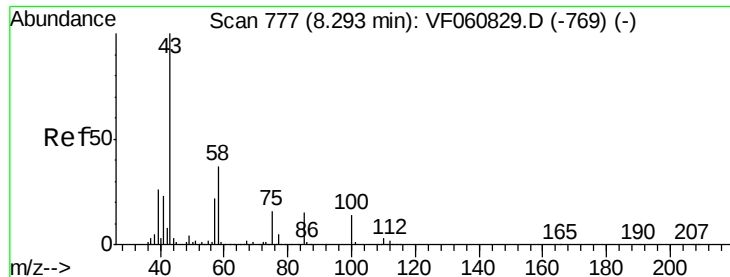
98 100

100 73.2 59.3 88.9



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





#51

4-Methyl-2-Pentanone

Concen: 1.672 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF061019.D

Acq: 14 Dec 2018 14:46

Instrument :

MSVOA_F

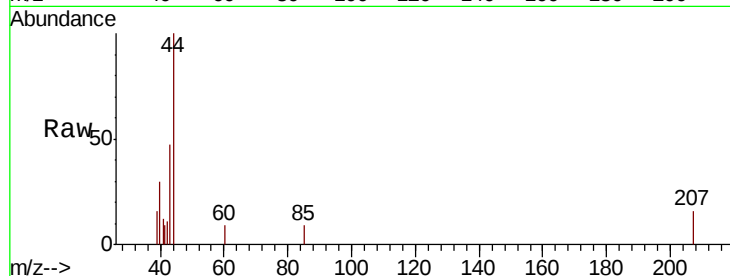
ClientSampleId :

Tot Ion: 43 Resp: 1737

Ion Ratio Lower Upper

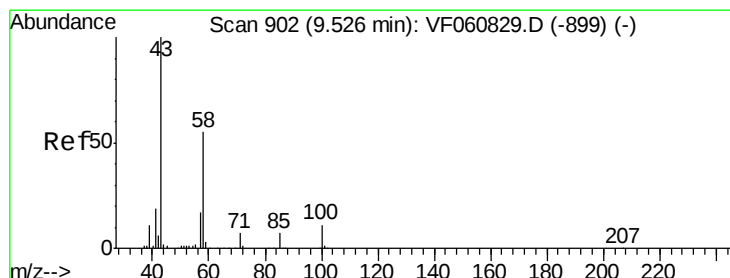
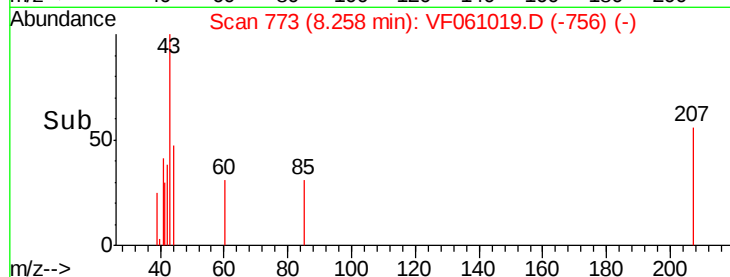
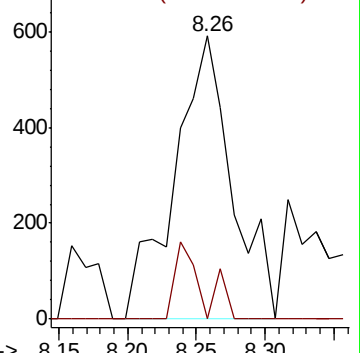
43 100

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



#59

2-Hexanone

Concen: 1.931 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.04 min

Lab File: VF061019.D

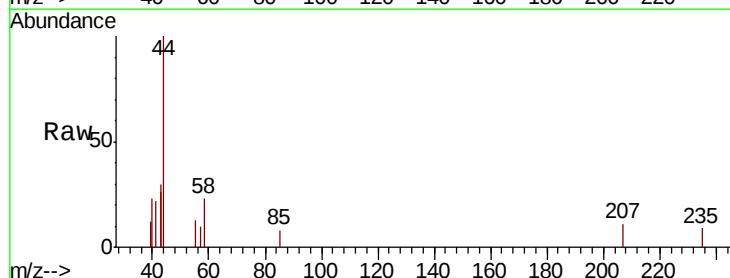
Acq: 14 Dec 2018 14:46

Tgt Ion: 43 Resp: 1407

Ion Ratio Lower Upper

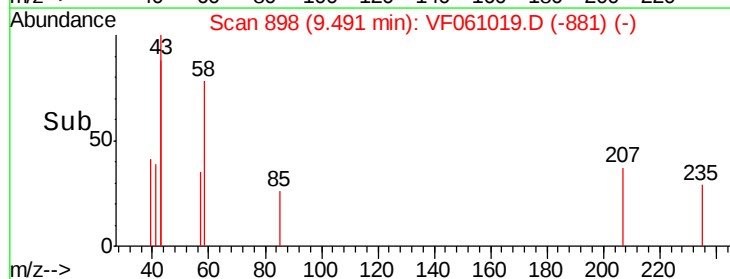
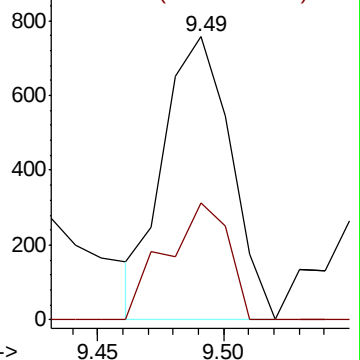
43 100

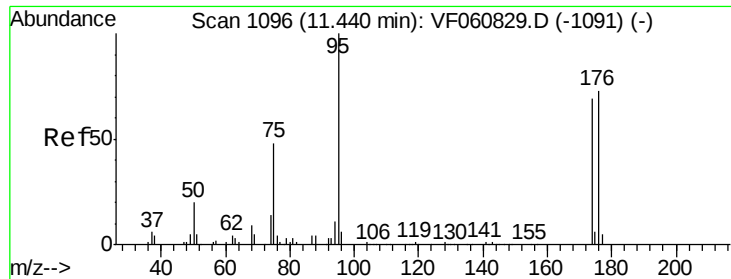
58 41.5 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

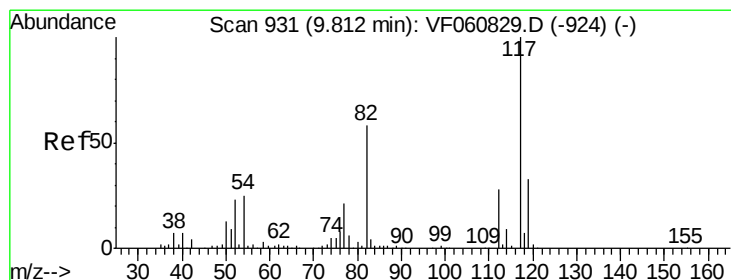
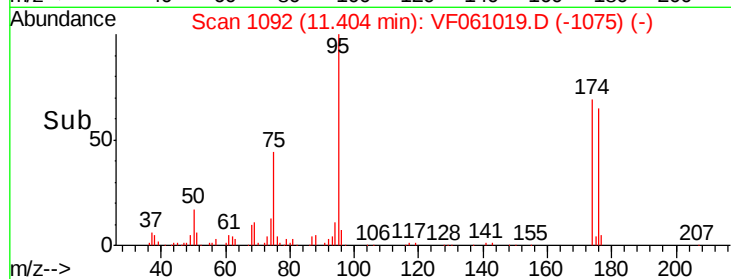
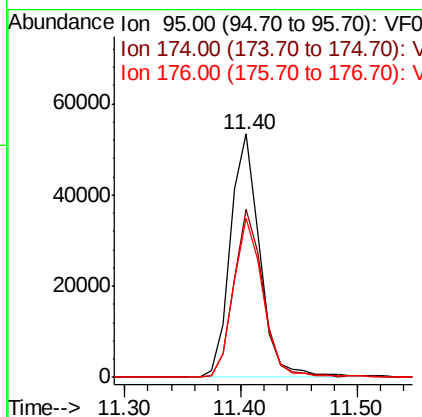
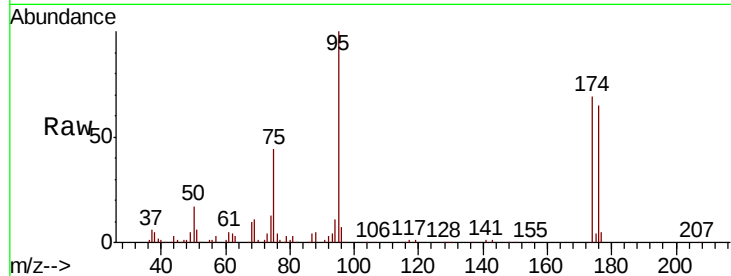




#62
4-Bromofluorobenzene
Concen: 35.228 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.04 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

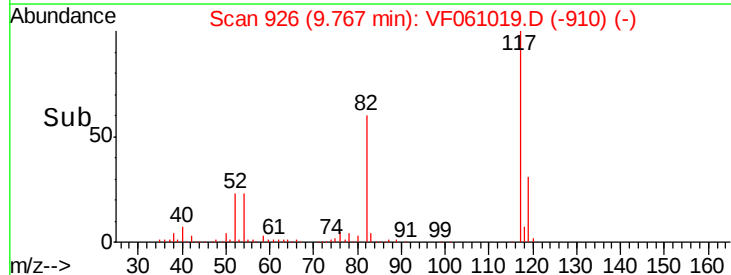
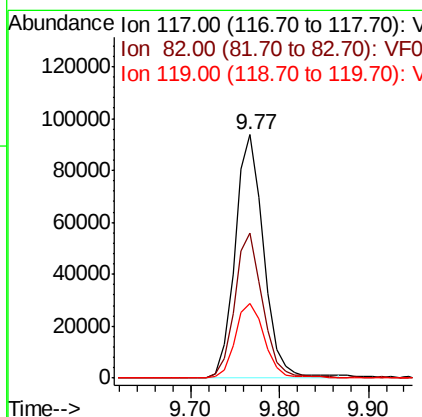
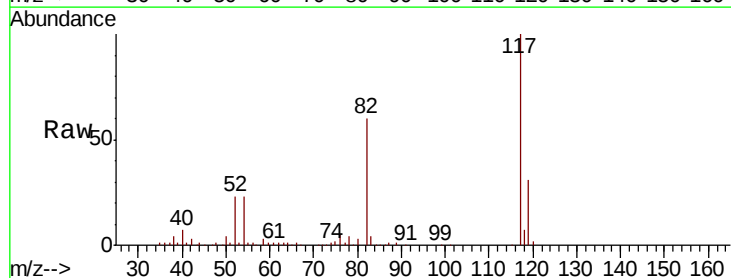
Instrument :
MSVOA_F
ClientSampleId :

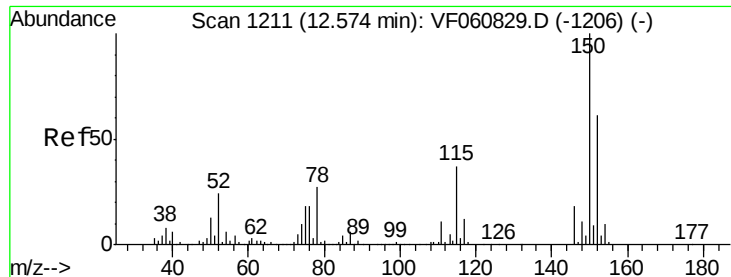
Tot Ion: 95 Resp: 93507
Ion Ratio Lower Upper
95 100
174 69.0 0.0 138.2
176 65.5 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.04 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

Tgt Ion: 117 Resp: 209835
Ion Ratio Lower Upper
117 100
82 59.8 46.6 69.8
119 30.7 26.4 39.6



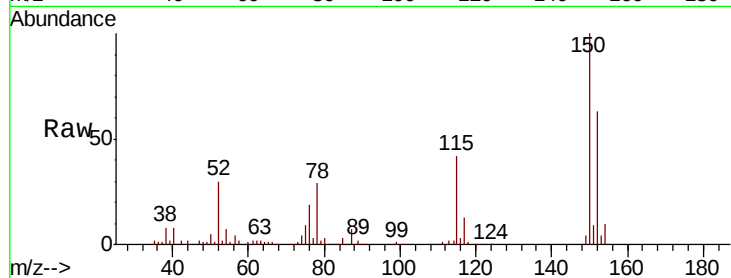


#72

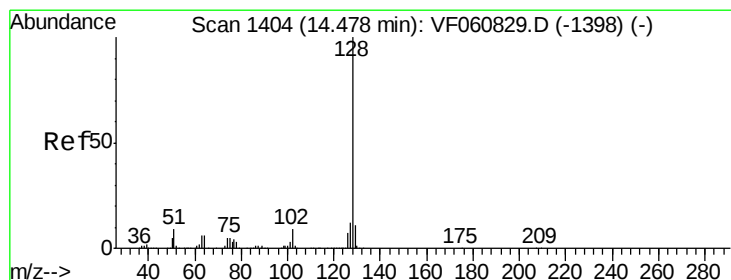
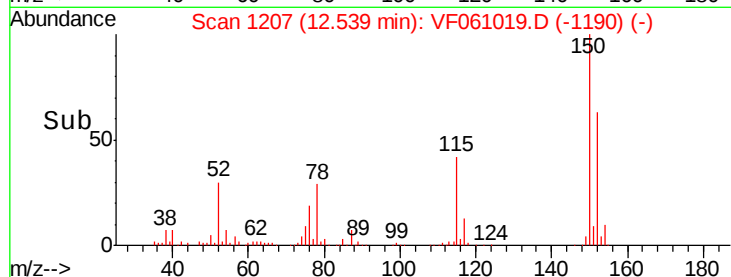
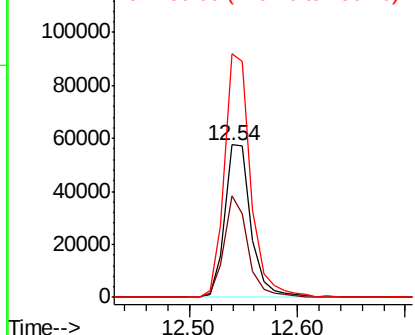
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.04 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 98011
Ion Ratio Lower Upper
152 100
115 66.8 30.1 90.5
150 159.7 0.0 327.6



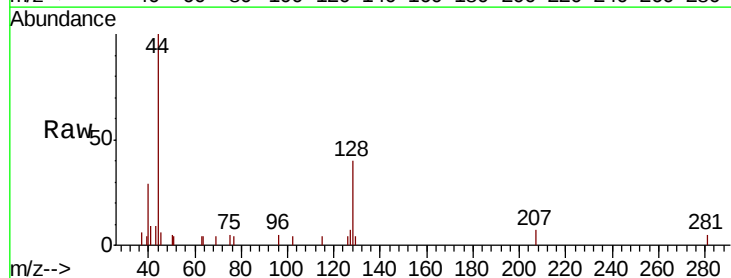
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene
Concen: Below Cal
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061019.D
Acq: 14 Dec 2018 14:46

Tgt Ion:128 Resp: 1653
Ion Ratio Lower Upper
128 100
127 16.8 9.9 14.9#
129 10.3 9.1 13.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

