

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121018\
 Data File : VF060968.D
 Acq On : 10 Dec 2018 22:11
 Operator : VA/AP
 Sample : J6214-49
 Misc : 5.14g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 11 04:59:43 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	4.86	168	148621	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	244322	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	217106	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	83971	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	69834	39.89	ug/l	-0.04
Spiked Amount			Recovery	=	79.78%	
35) Dibromofluoromethane	4.11	113	82448	42.54	ug/l	-0.04
Spiked Amount			Recovery	=	85.08%	
50) Toluene-d8	7.55	98	187125	32.77	ug/l	-0.04
Spiked Amount			Recovery	=	65.54%	
62) 4-Bromofluorobenzene	11.41	95	83629	32.23	ug/l	-0.03
Spiked Amount			Recovery	=	64.46%	

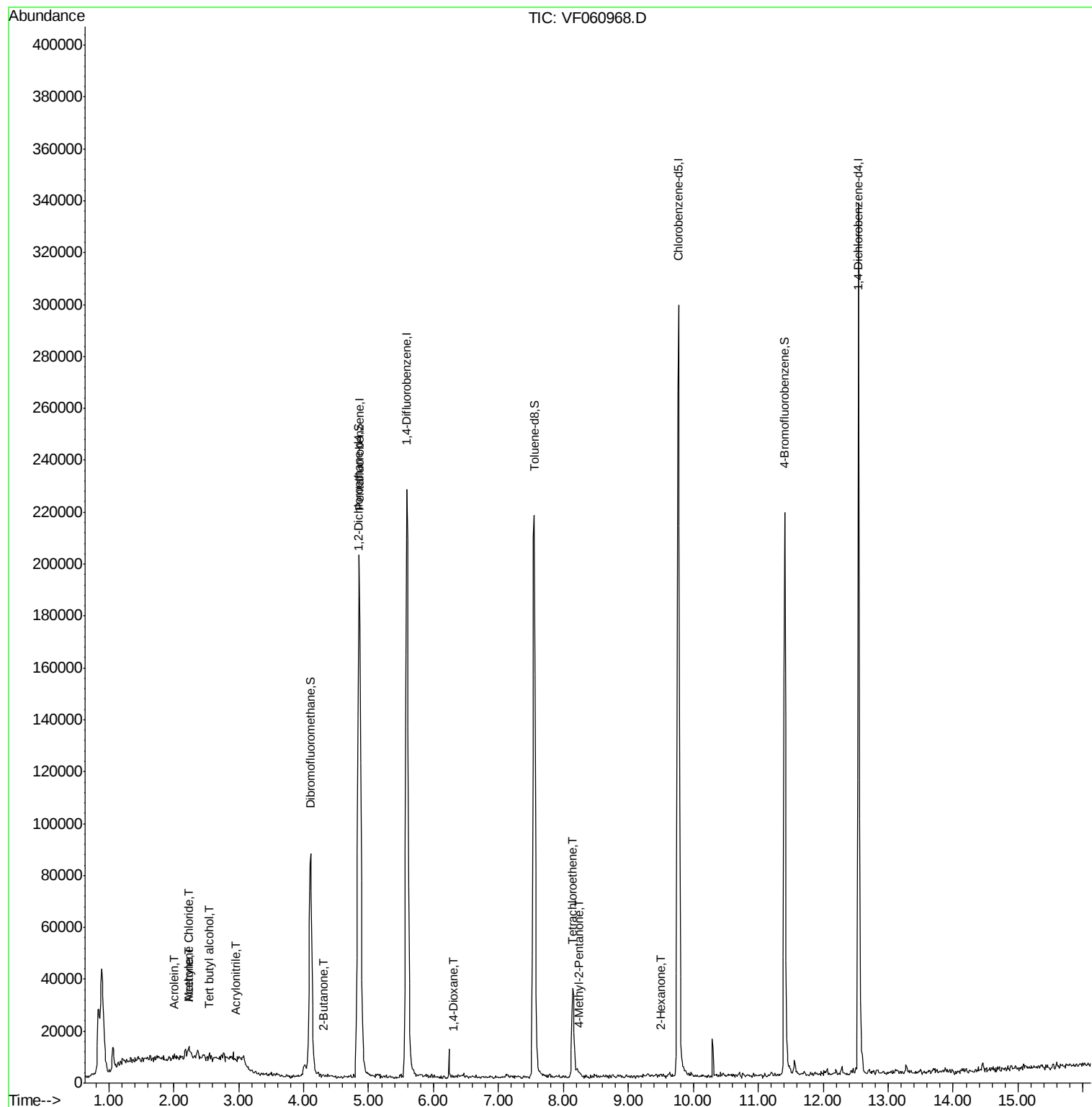
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	90	1.254	ug/l #	1
13) Acrolein	2.00	56	350	5.147	ug/l #	56
15) Acrylonitrile	2.95	53	749	4.655	ug/l #	29
16) Acetone	2.23	43	1595	4.940	ug/l #	65
18) Methyl Acetate	2.47	43	449	Below Cal		93
20) Methylene Chloride	2.22	84	2758	2.329	ug/l	94
25) 2-Butanone	4.32	43	562	1.006	ug/l #	57
41) Methacrylonitrile	4.76	41	459	Below Cal	#	23
43) Isopropyl Acetate	6.95	43	350	Below Cal	#	49
49) 1,4-Dioxane	6.31	88	72	9.869	ug/l #	8
51) 4-Methyl-2-Pentanone	8.25	43	1434	1.412	ug/l #	85
59) 2-Hexanone	9.49	43	1677	2.354	ug/l	79
64) Tetrachloroethene	8.14	164	10032	6.050	ug/l	92
95) Naphthalene	14.45	128	2099	Below Cal	#	68

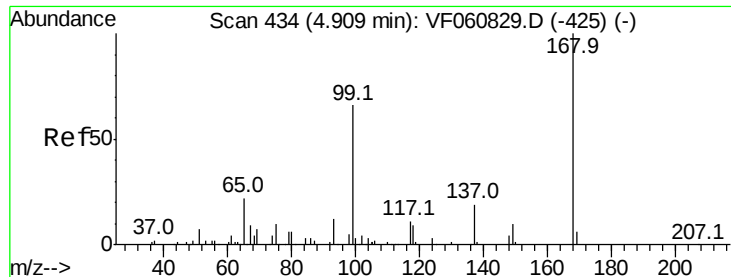
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 27 01:36:26 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

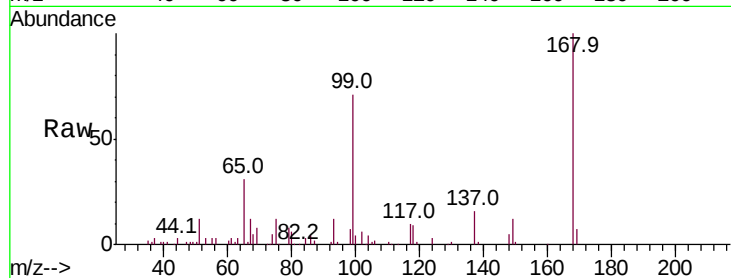
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 148621

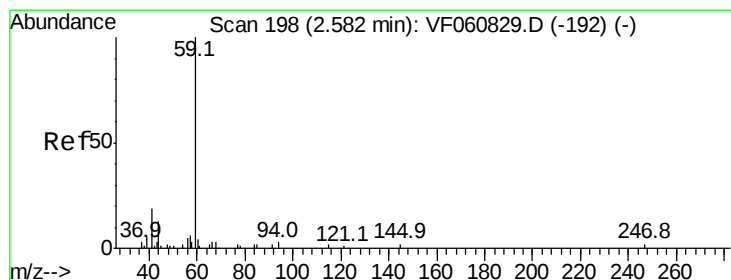
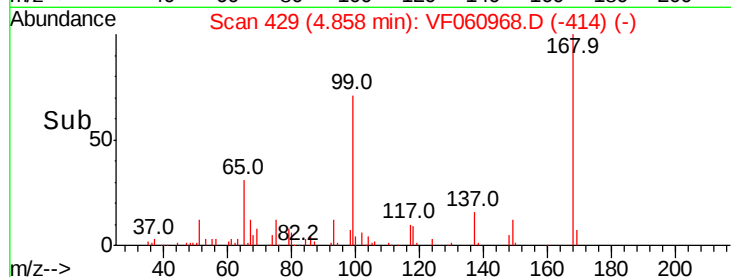
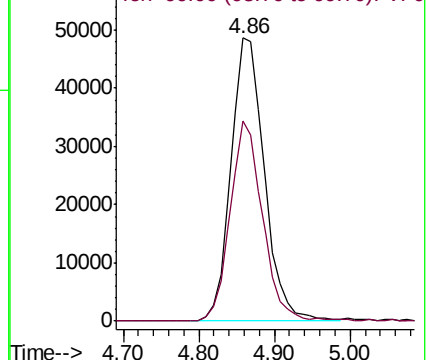
Ion Ratio Lower Upper

168 100

99 70.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF060968.D (-414) (-)



#11

Tert butyl alcohol

Concen: 1.254 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.03 min

Lab File: VF060968.D

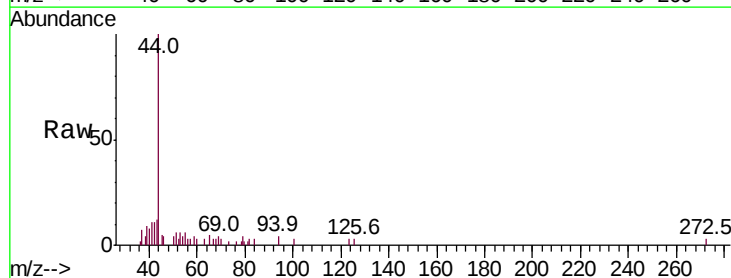
Acq: 10 Dec 2018 22:11

Tgt Ion: 59 Resp: 90

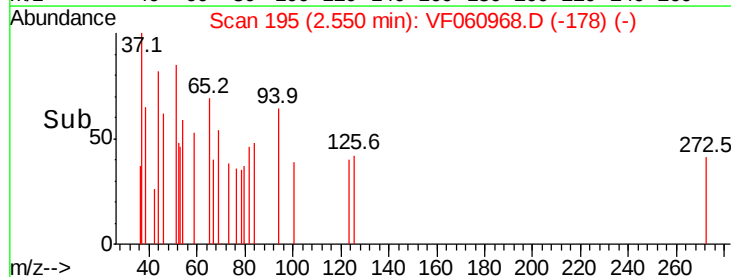
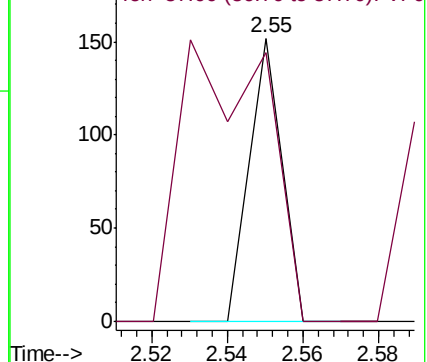
Ion Ratio Lower Upper

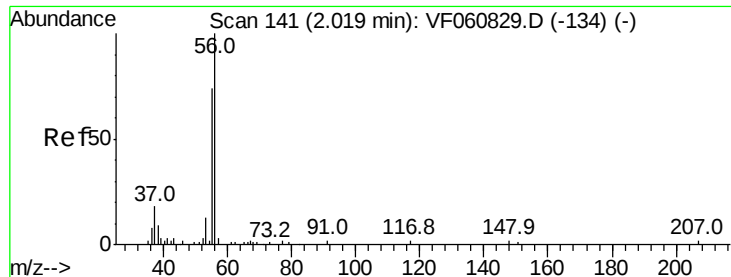
59 100

57 94.7 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF060968.D (-178) (-)





#13

Acrolein

Concen: 5.147 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

Instrument :

MSVOA_F

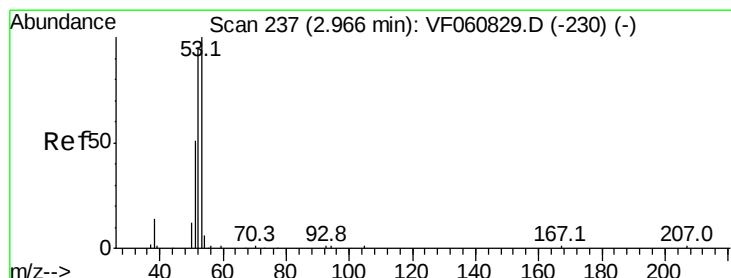
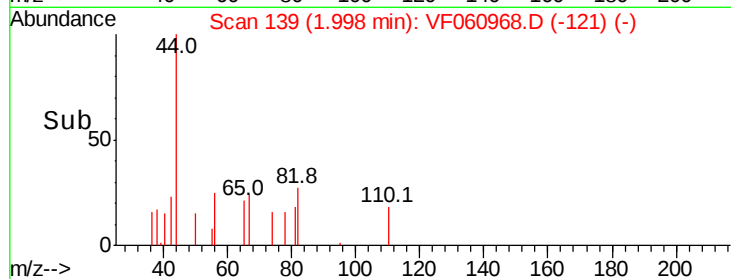
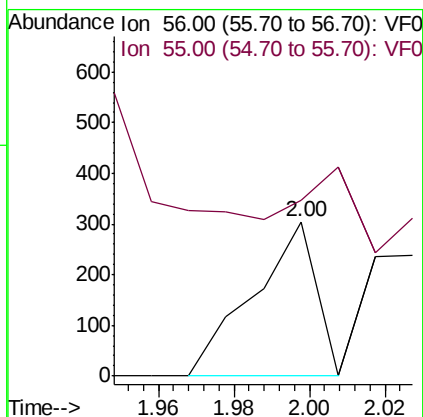
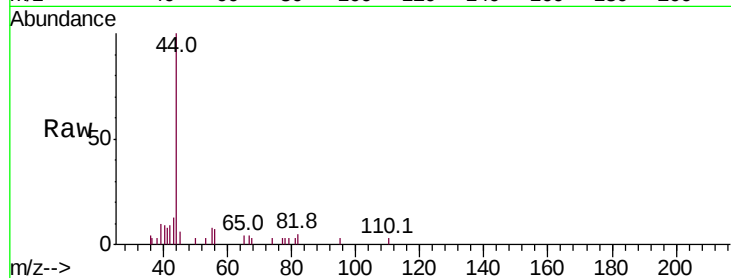
ClientSampled :

Tot Ion: 56 Resp: 350

Ion Ratio Lower Upper

56 100

55 114.5 61.2 91.8#



#15

Acrylonitrile

Concen: 4.655 ug/l

RT: 2.95 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

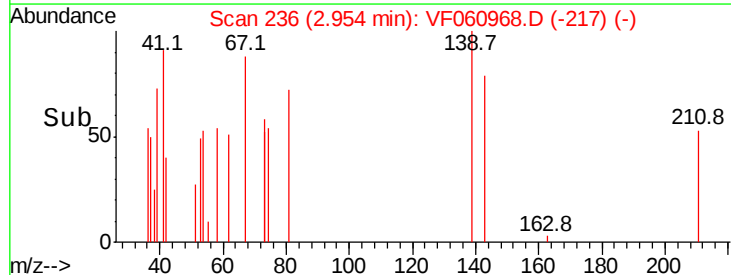
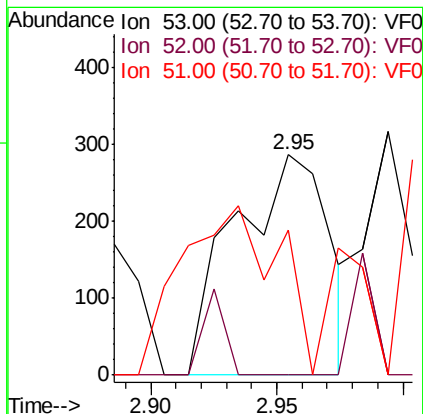
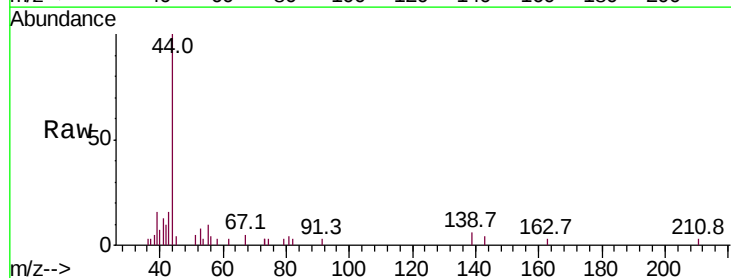
Tgt Ion: 53 Resp: 749

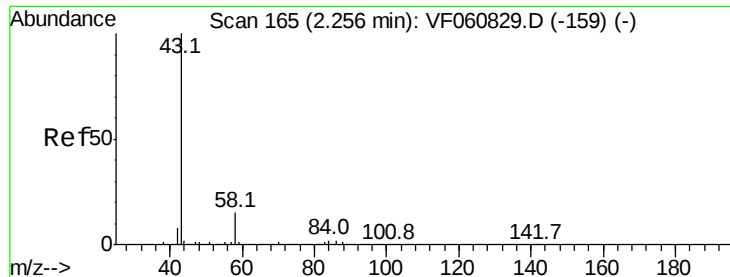
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 65.5 40.7 61.1#





#16

Acetone

Concen: 4.940 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

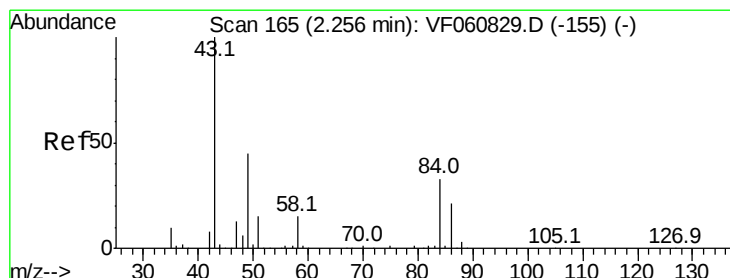
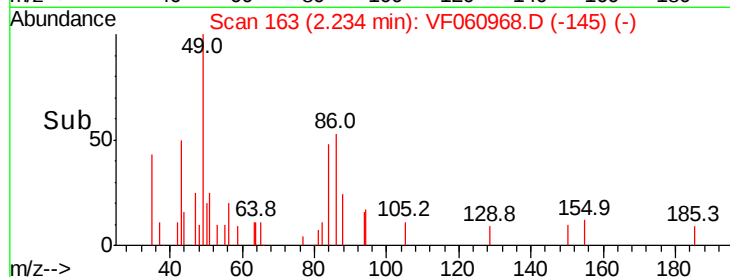
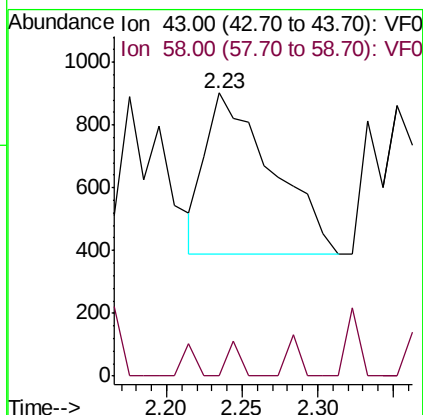
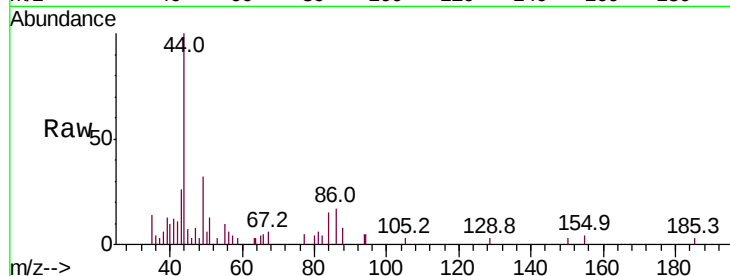
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1595

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#



#20

Methylene Chloride

Concen: 2.329 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

Tgt Ion: 84 Resp: 2758

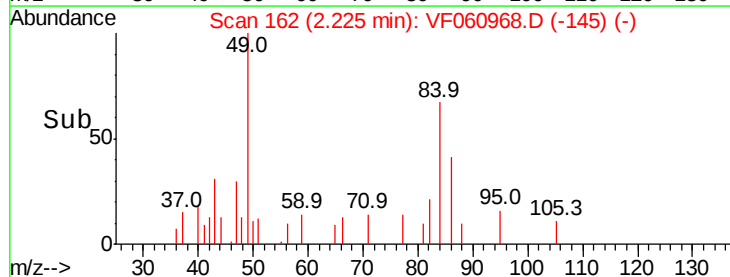
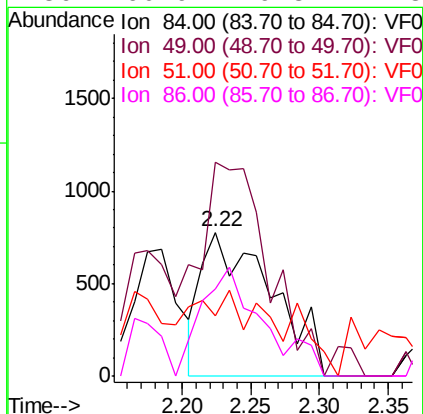
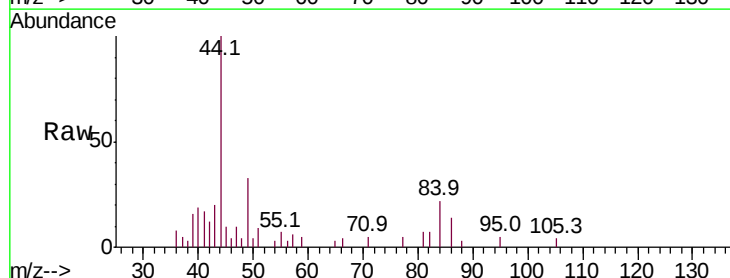
Ion Ratio Lower Upper

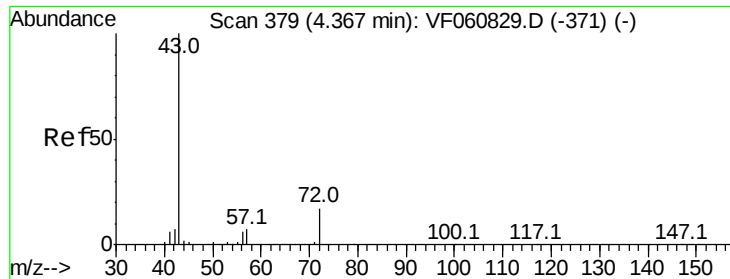
84 100

49 148.5 111.3 166.9

51 41.5 38.0 57.0

86 60.9 49.8 74.8

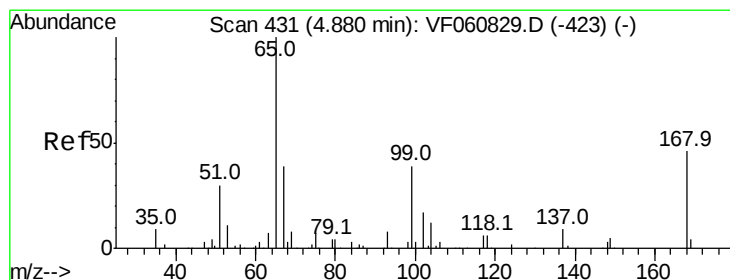
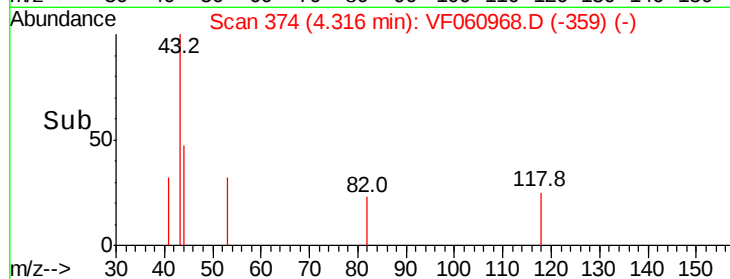
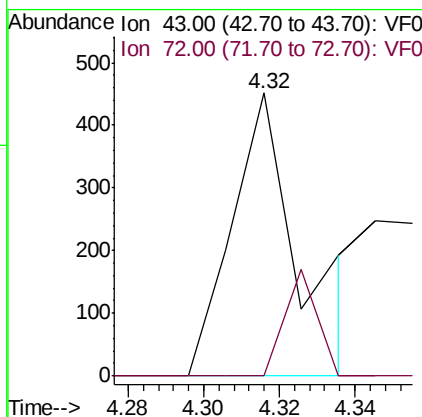
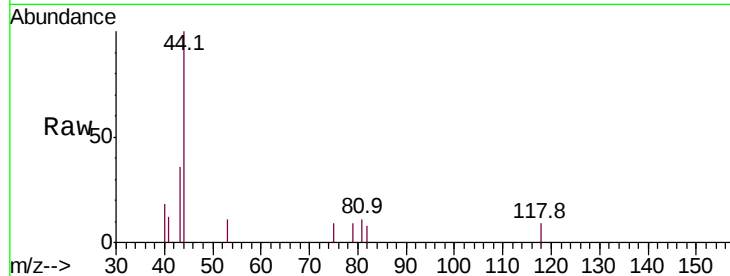




#25
2-Butanone
Concen: 1.006 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.05 min
Lab File: VF060968.D
Acq: 10 Dec 2018 22:11

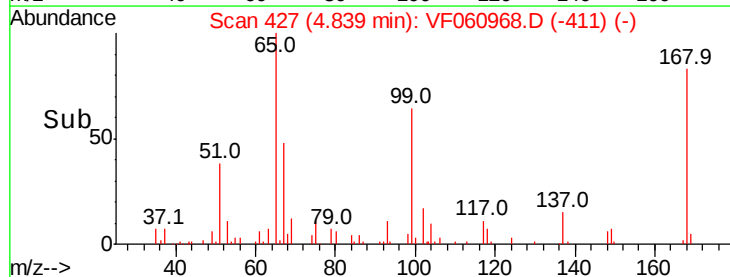
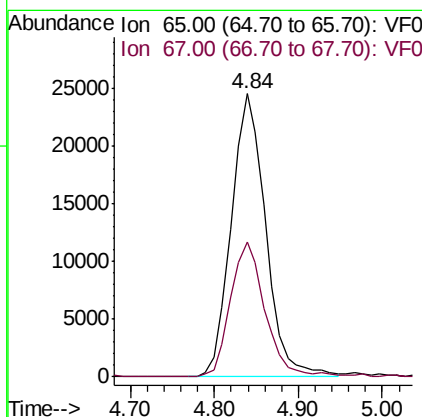
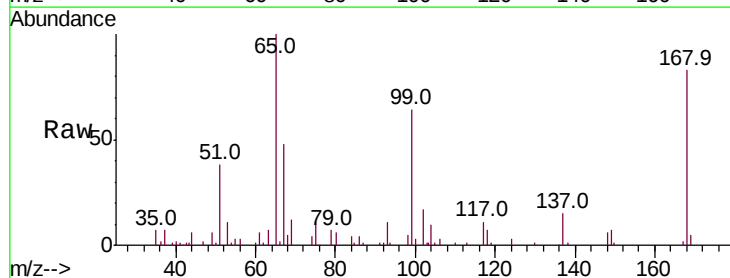
Instrument :
MSVOA_F
ClientSampled :

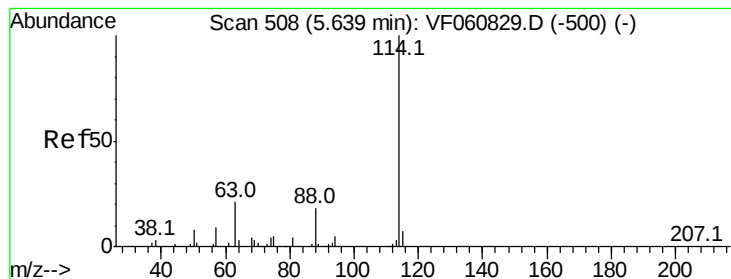
Tot Ion: 43 Resp: 562
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#



#33
1,2-Dichloroethane-d4
Concen: 39.887 ug/l
RT: 4.84 min Scan# 427
Delta R.T. -0.04 min
Lab File: VF060968.D
Acq: 10 Dec 2018 22:11

Tgt Ion: 65 Resp: 69834
Ion Ratio Lower Upper
65 100
67 47.6 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

Instrument :

MSVOA_F

ClientSampleId :

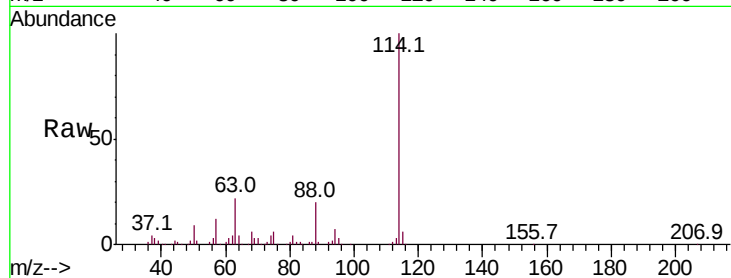
Tot Ion:114 Resp: 244322

Ion Ratio Lower Upper

114 100

63 22.3 0.0 41.6

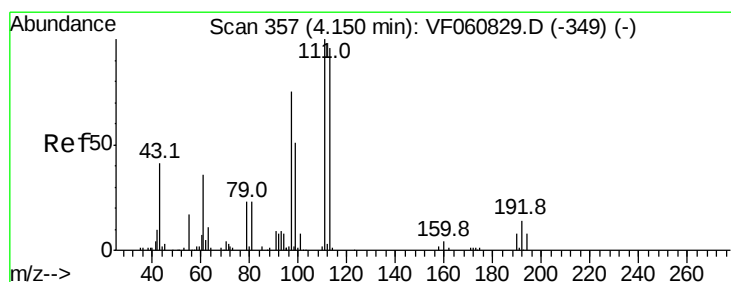
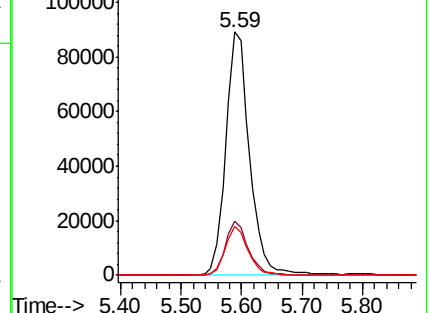
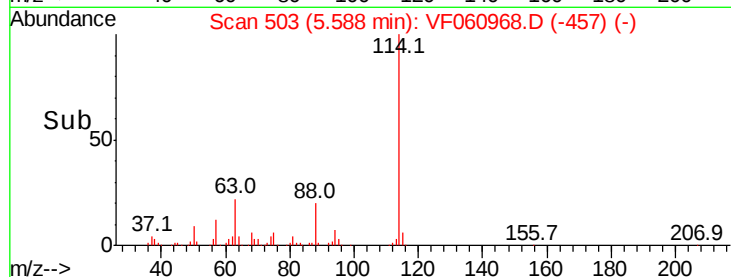
88 20.1 0.0 36.6



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: 42.537 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

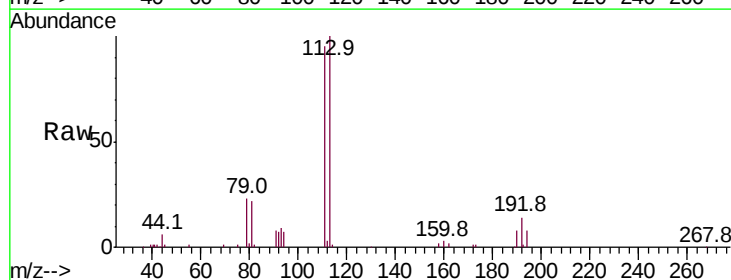
Tgt Ion:113 Resp: 82448

Ion Ratio Lower Upper

113 100

111 94.7 83.0 124.6

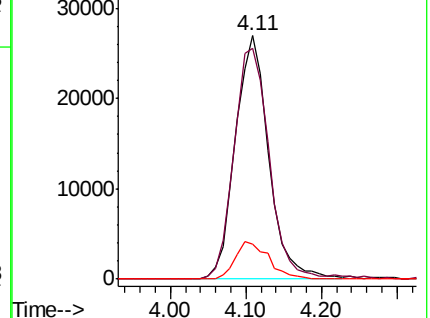
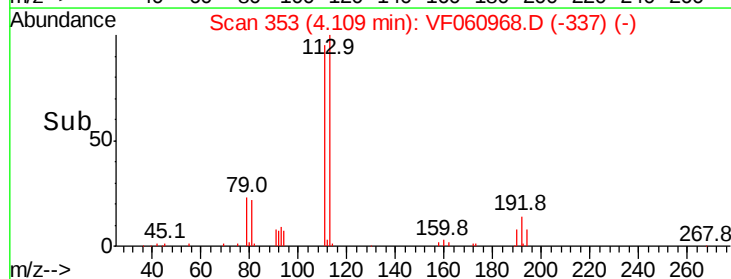
192 14.8 12.3 18.5

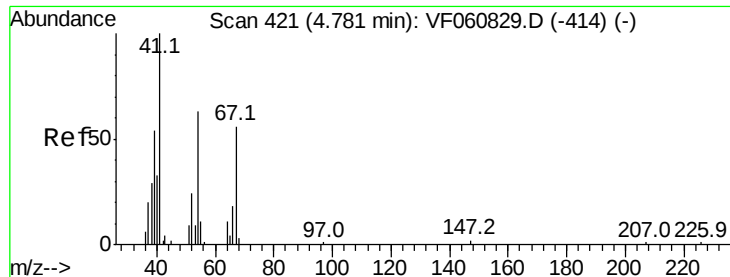


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

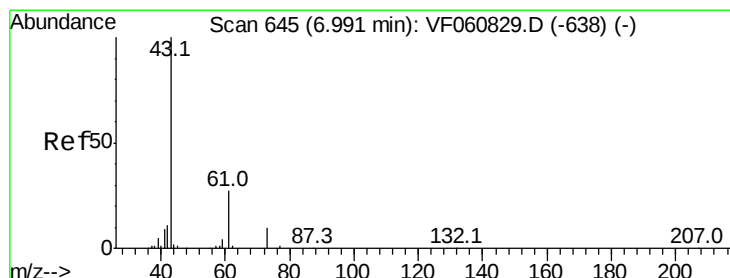
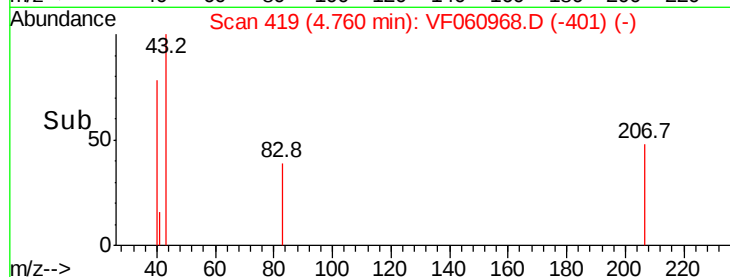
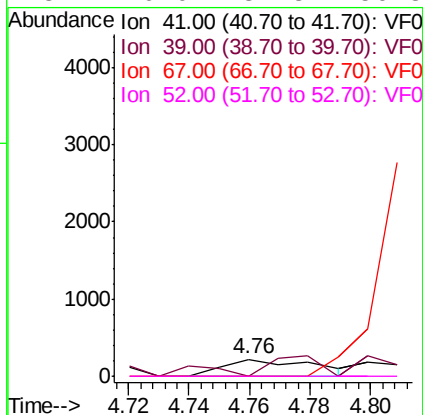
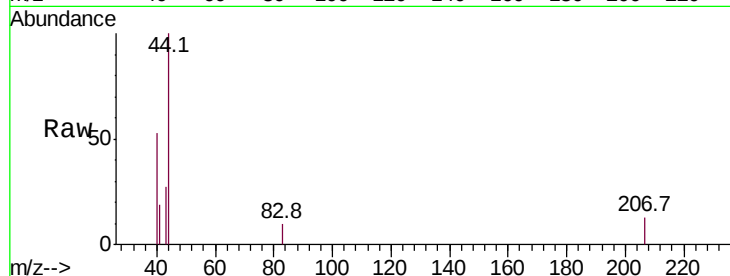




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.76 min Scan# 419
Delta R.T. -0.02 min
Lab File: VF060968.D
Acq: 10 Dec 2018 22:11

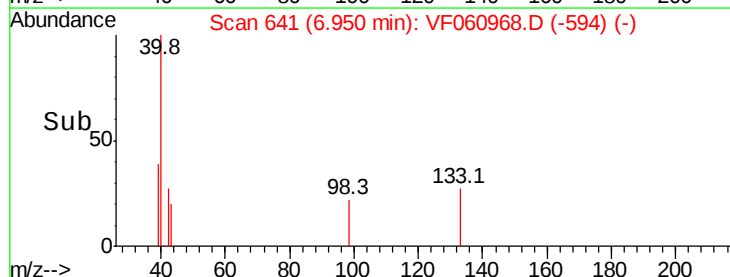
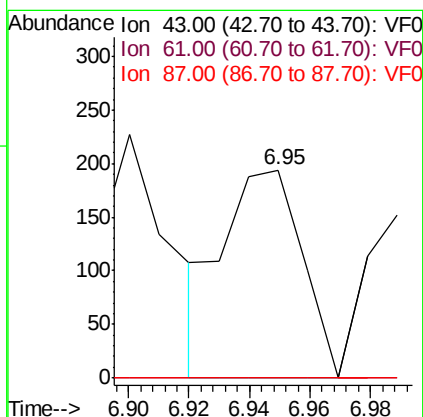
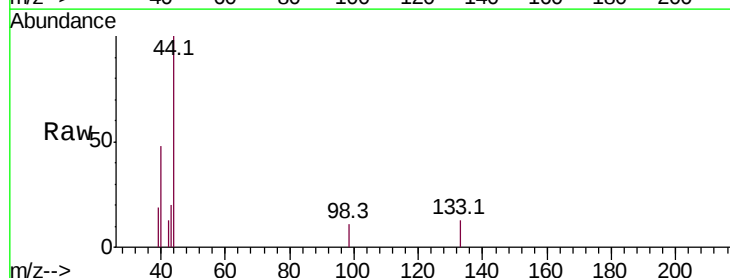
Instrument :
MSVOA_F
ClientSampled :

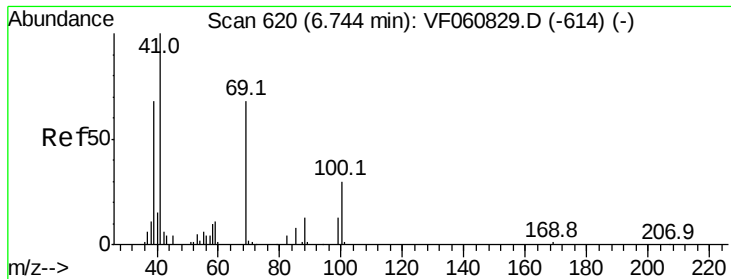
Tot Ion:	41	Resp:	459
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.95 min Scan# 641
Delta R.T. -0.04 min
Lab File: VF060968.D
Acq: 10 Dec 2018 22:11

Tgt Ion:	43	Resp:	350
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: 9.869 ug/l

RT: 6.31 min Scan# 576

Delta R.T. -0.44 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

Instrument :

MSVOA_F

ClientSampleId :

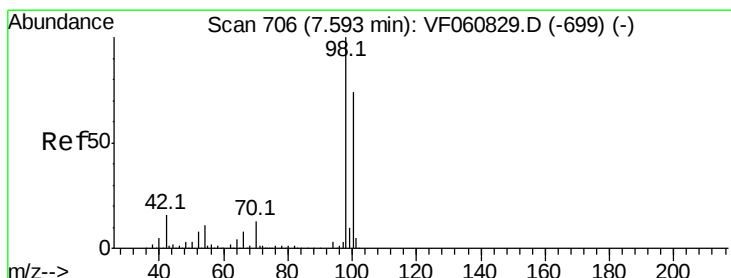
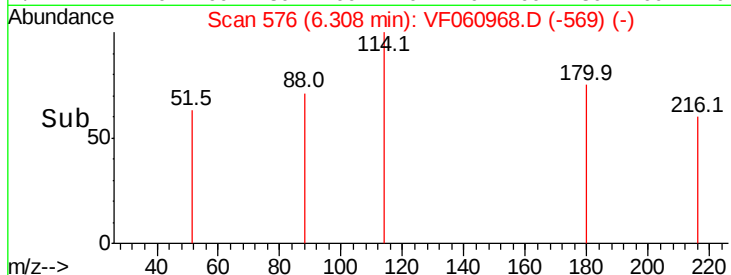
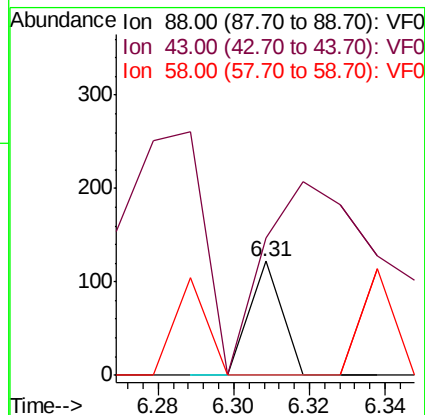
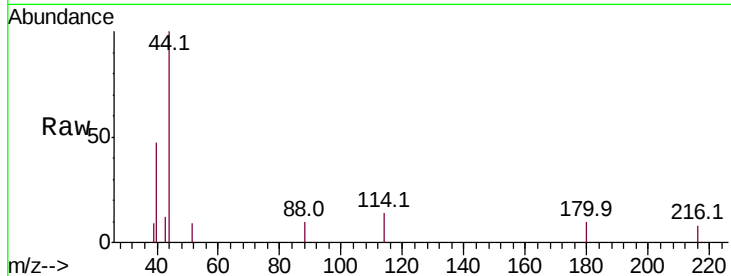
Tot Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 120.5 42.0 63.0#

58 0.0 61.8 92.8#



#50

Toluene-d8

Concen: 32.774 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060968.D

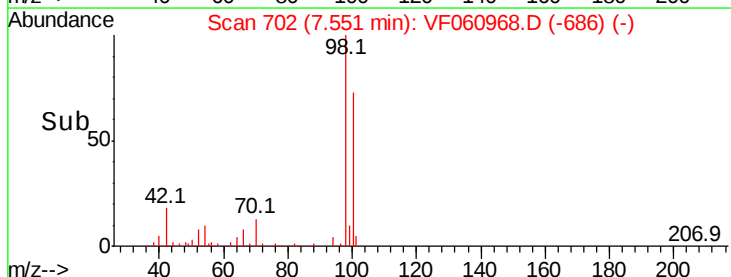
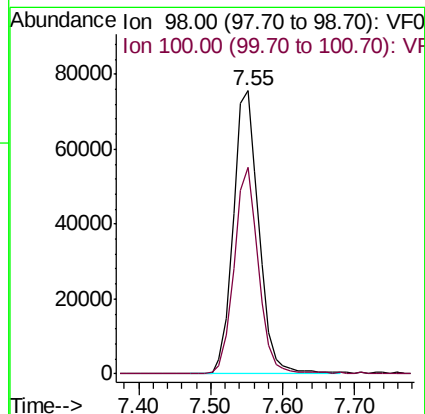
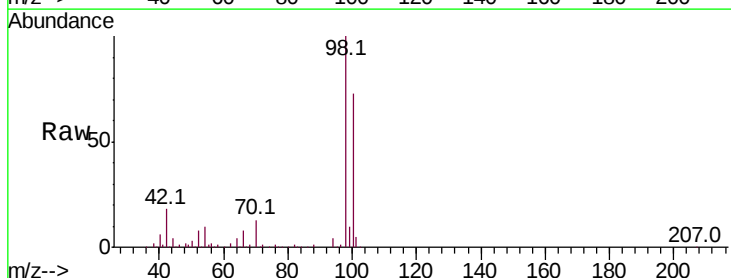
Acq: 10 Dec 2018 22:11

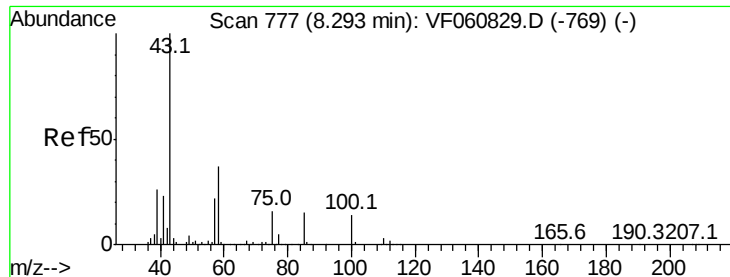
Tgt Ion: 98 Resp: 187125

Ion Ratio Lower Upper

98 100

100 72.9 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 1.412 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

Instrument :

MSVOA_F

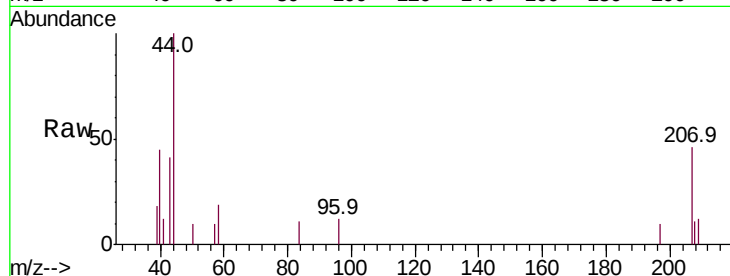
ClientSampled :

Tot Ion: 43 Resp: 1434

Ion Ratio Lower Upper

43 100

58 46.3 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

400

300

200

100

0

8.15

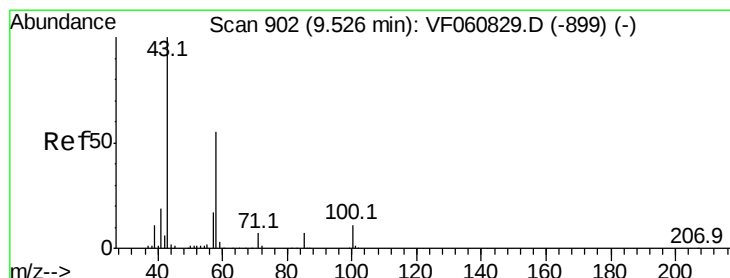
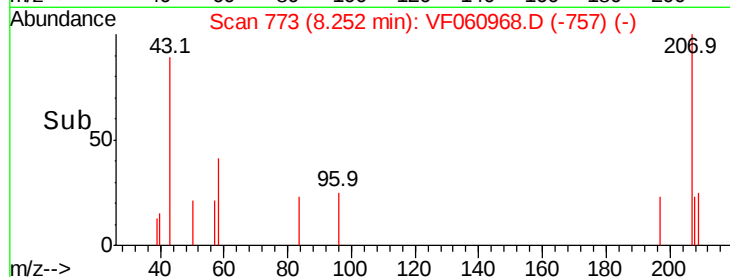
8.20

8.25

8.30

8.35

Time-->



#59

2-Hexanone

Concen: 2.354 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF060968.D

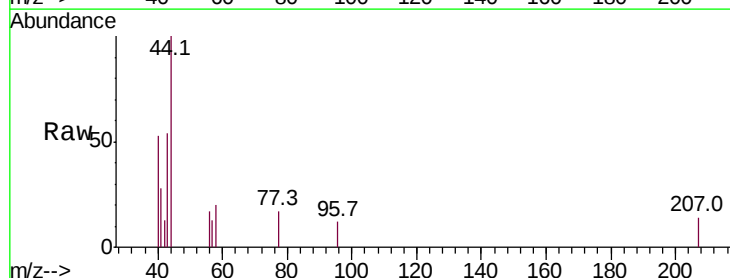
Acq: 10 Dec 2018 22:11

Tgt Ion: 43 Resp: 1677

Ion Ratio Lower Upper

43 100

58 36.5 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

600

500

400

300

200

100

0

9.40

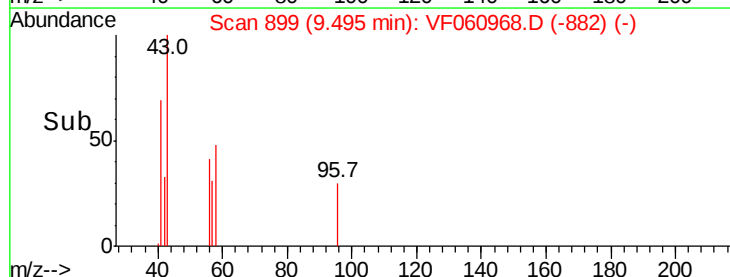
9.45

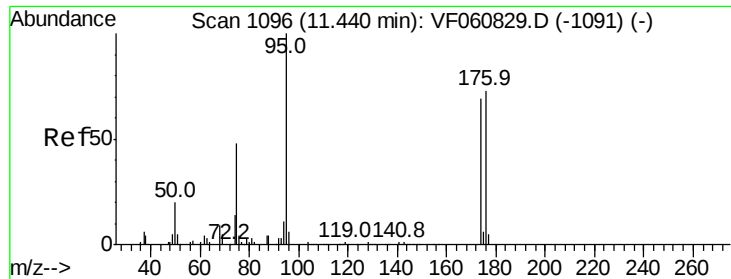
9.50

9.55

9.60

Time-->

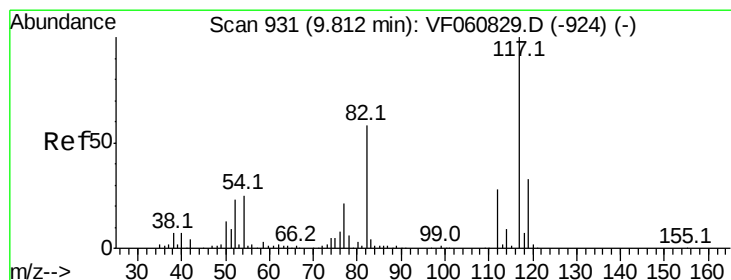
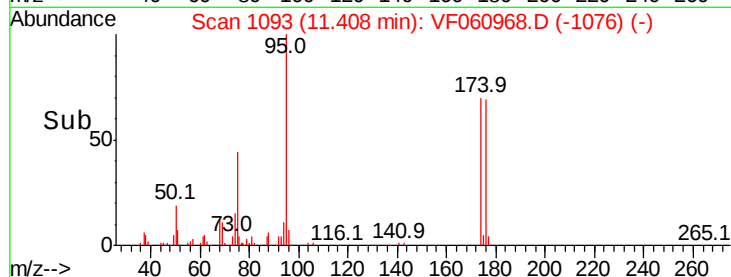
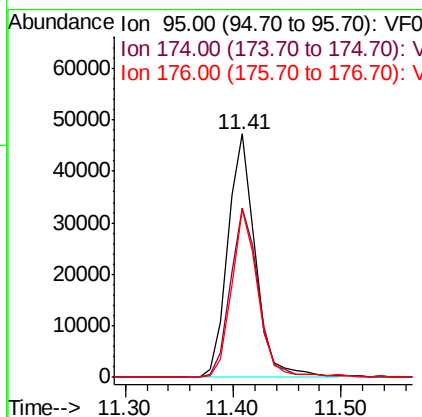
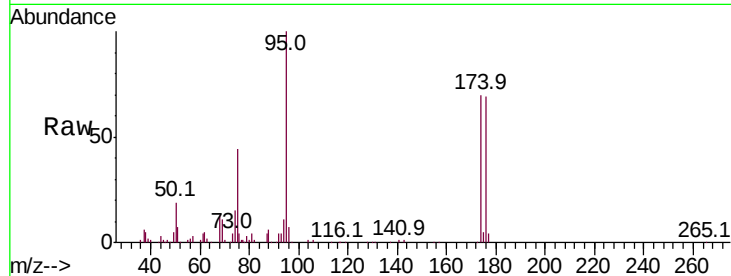




#62
4-Bromofluorobenzene
Concen: 32.228 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF060968.D
Acq: 10 Dec 2018 22:11

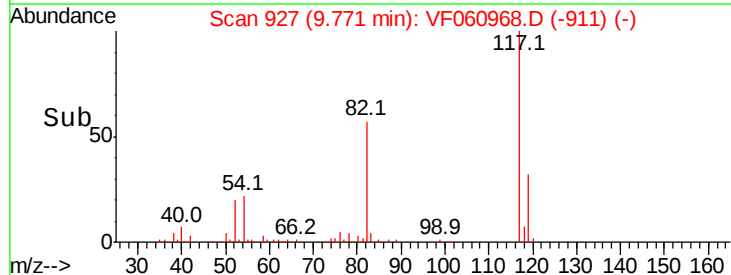
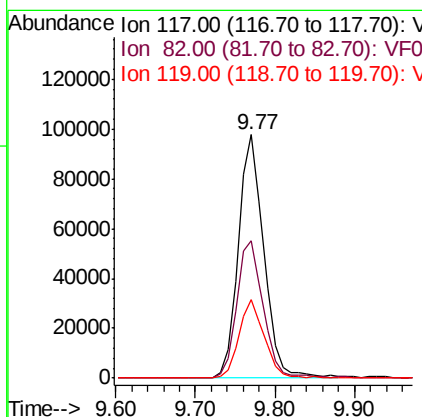
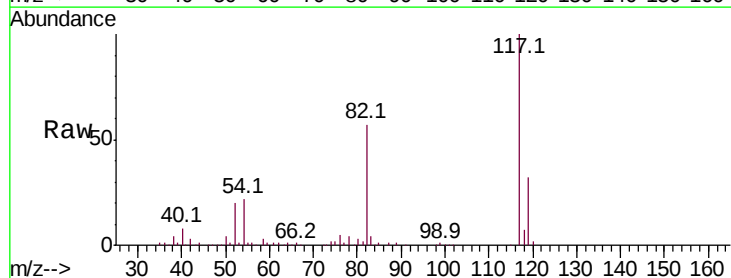
Instrument :
MSVOA_F
ClientSampleId :

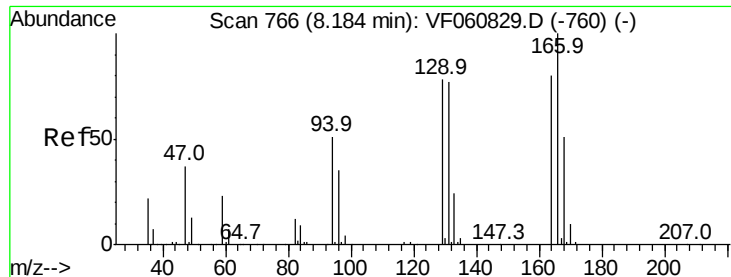
Tot Ion: 95 Resp: 83629
Ion Ratio Lower Upper
95 100
174 69.7 0.0 138.2
176 69.2 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060968.D
Acq: 10 Dec 2018 22:11

Tgt Ion: 117 Resp: 217106
Ion Ratio Lower Upper
117 100
82 56.6 46.6 69.8
119 32.0 26.4 39.6





#64

Tetrachloroethene

Concen: 6.050 ug/l

RT: 8.14 min Scan# 762

Delta R.T. -0.04 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:164 Resp: 10032

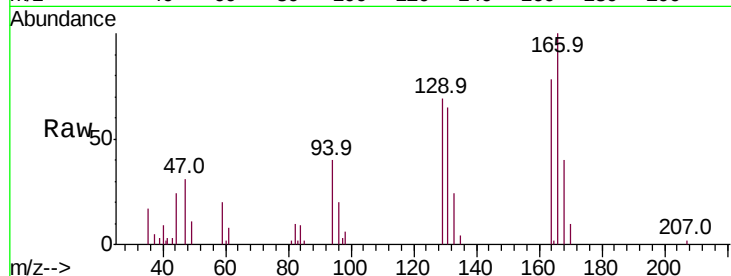
Ion Ratio Lower Upper

164 100

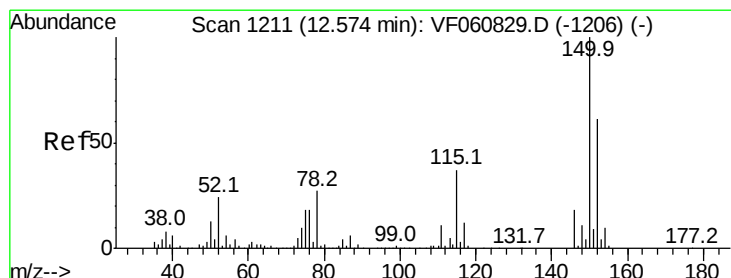
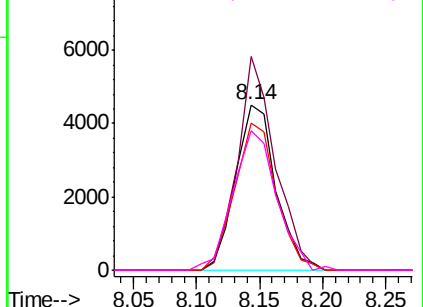
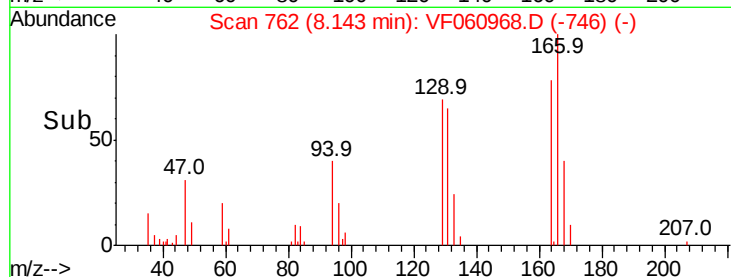
166 128.9 100.3 150.5

129 88.7 77.9 116.9

131 84.3 77.5 116.3



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF060968.D

Acq: 10 Dec 2018 22:11

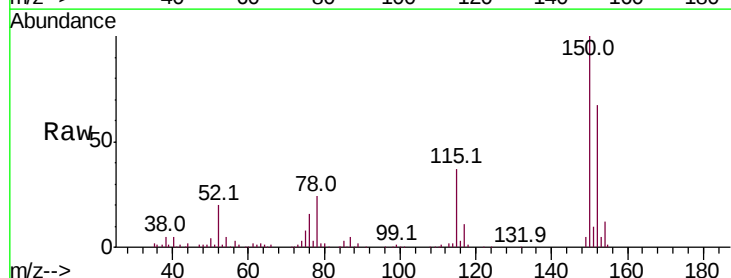
Tgt Ion:152 Resp: 83971

Ion Ratio Lower Upper

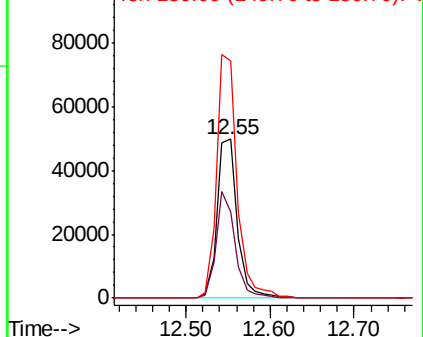
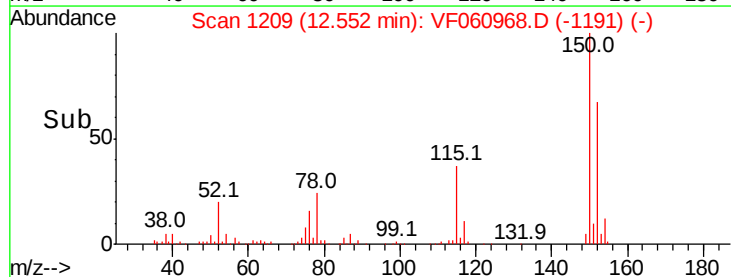
152 100

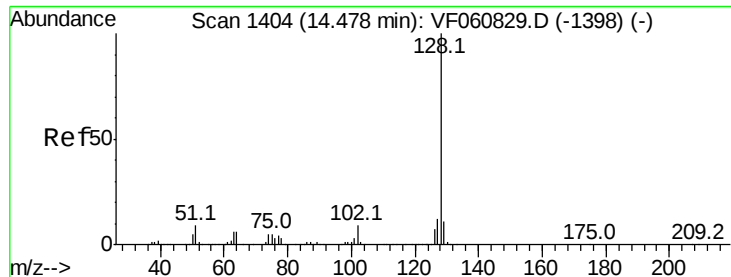
115 54.7 30.1 90.5

150 149.3 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

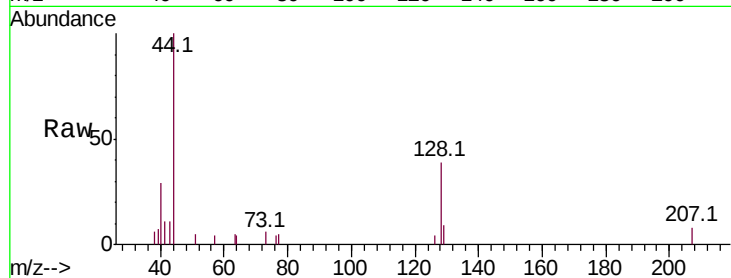




#95
Naphthalene
Concen: Below Cal
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF060968.D
Acq: 10 Dec 2018 22:11

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 2099
Ion Ratio Lower Upper
128 100
127 0.0 9.9 14.9#
129 23.7 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

