

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121418\
 Data File : VF061028.D
 Acq On : 14 Dec 2018 19:06
 Operator : VA/AP
 Sample : J6403-41RE
 Misc : 5.37g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 15 00:08:24 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	243510	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	462250	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	393149	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.55	152	194389	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	153208	53.41	ug/l	-0.04
Spiked Amount			Recovery	=	106.82%	
35) Dibromofluoromethane	4.10	113	155590	42.43	ug/l	-0.05
Spiked Amount			Recovery	=	84.86%	
50) Toluene-d8	7.55	98	440119	40.74	ug/l	-0.05
Spiked Amount			Recovery	=	81.48%	
62) 4-Bromofluorobenzene	11.40	95	197085	40.14	ug/l	-0.04
Spiked Amount			Recovery	=	80.28%	

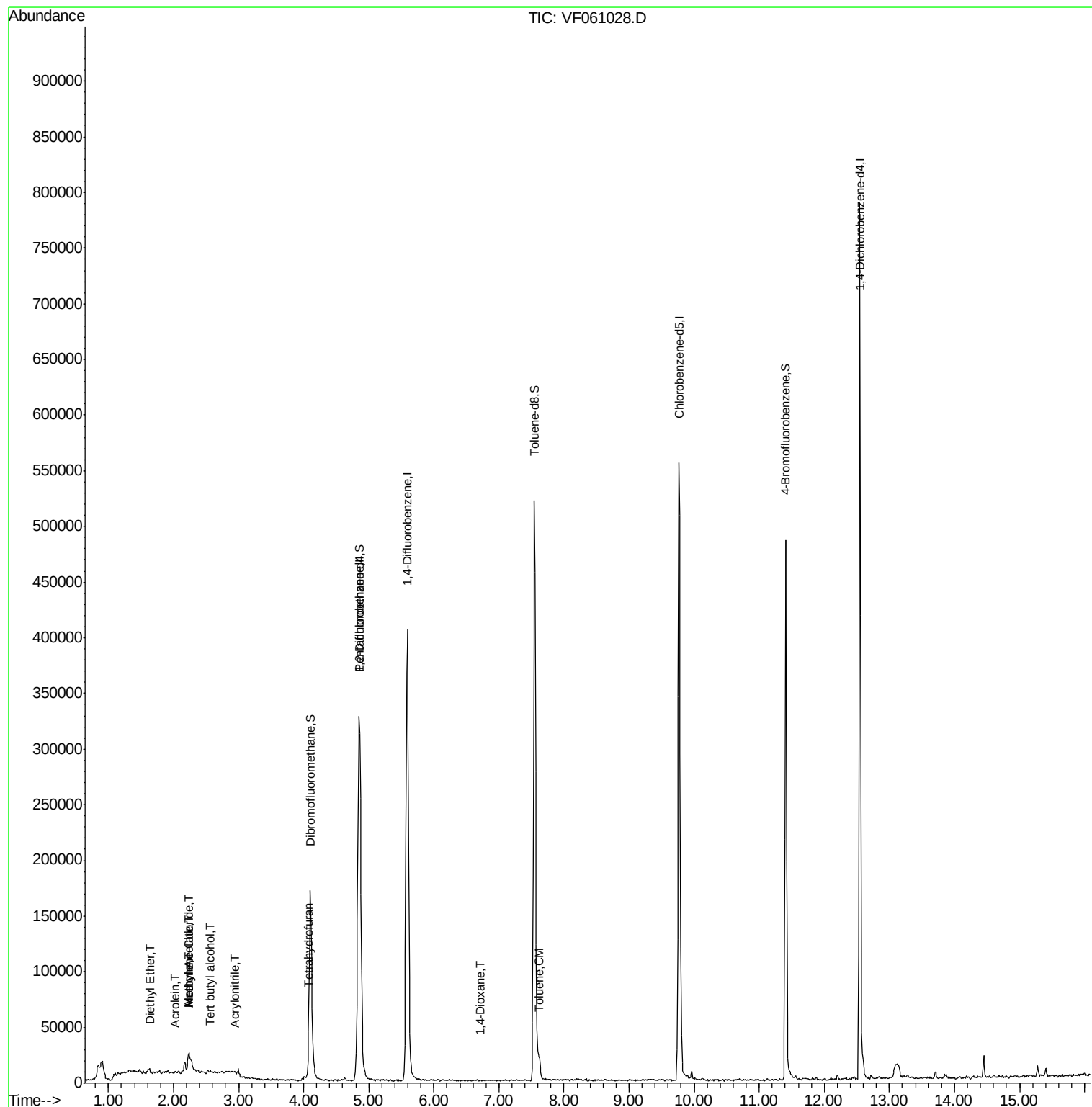
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	1471	2.157	ug/l	45
11) Tert butyl alcohol	2.57	59	737	6.267	ug/l #	40
13) Acrolein	2.01	56	494	4.434	ug/l	100
15) Acrylonitrile	2.96	53	295	1.119	ug/l #	52
16) Acetone	2.23	43	25283	47.795	ug/l #	93
18) Methyl Acetate	2.23	43	22053	23.990	ug/l #	61
20) Methylene Chloride	2.25	84	6692	3.448	ug/l #	88
29) Tetrahydrofuran	4.06	42	897	2.313	ug/l #	51
41) Methacrylonitrile	4.75	41	71	Below Cal	#	39
43) Isopropyl Acetate	6.91	43	573	Below Cal	#	49
49) 1,4-Dioxane	6.71	88	85	6.158	ug/l #	17
52) Toluene	7.62	92	8783	1.104	ug/l	87
95) Naphthalene	14.45	128	13251	Below Cal		98

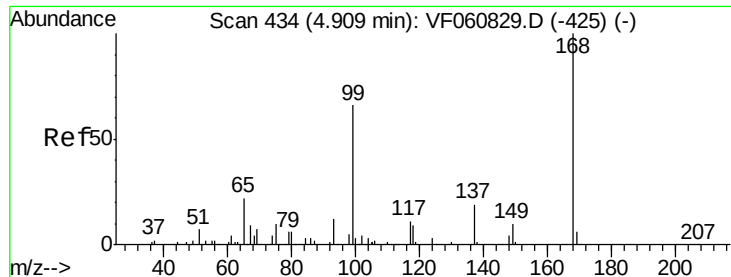
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121418\
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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Instrument :

MSVOA_F

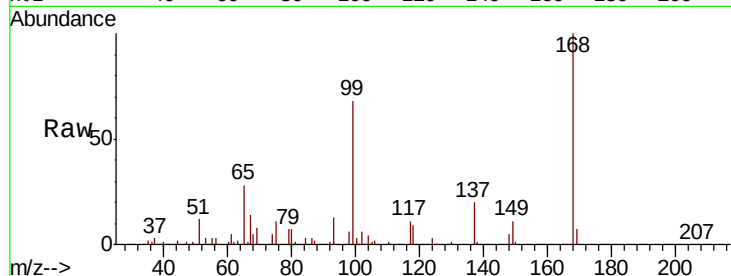
ClientSampleId :

Tot Ion:168 Resp: 243510

Ion Ratio Lower Upper

168 100

99 68.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

60000

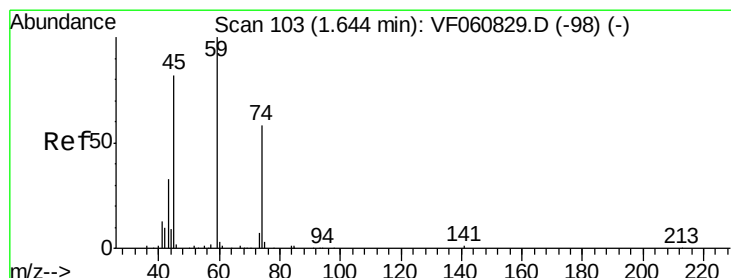
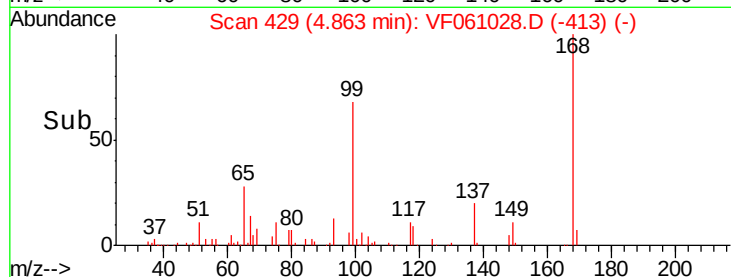
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 2.157 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF061028.D

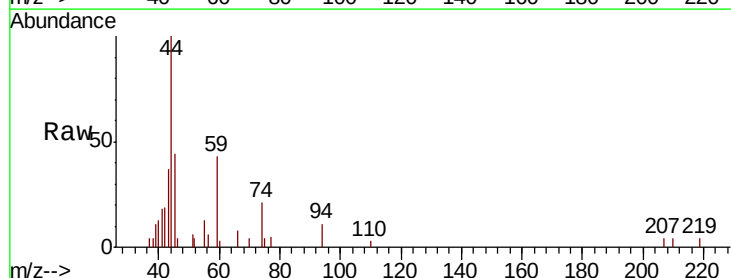
Acq: 14 Dec 2018 19:06

Tgt Ion: 74 Resp: 1471

Ion Ratio Lower Upper

74 100

45 210.0 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1500

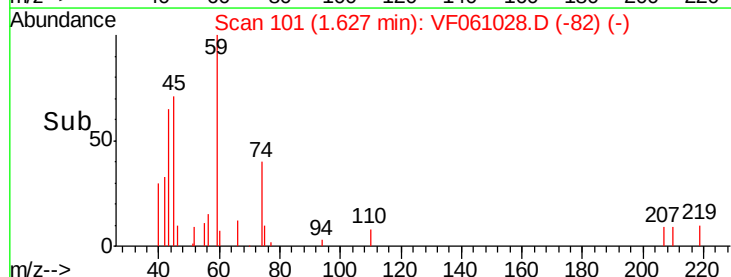
1000

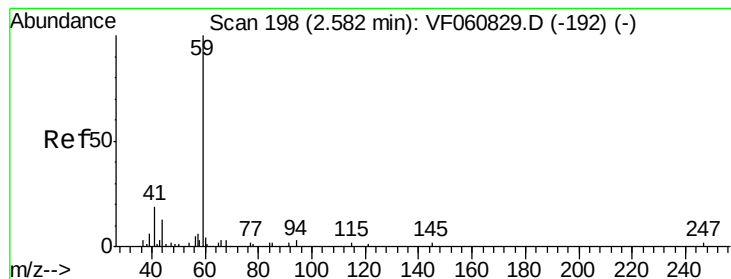
500

0

Time-->

1.55 1.60 1.65 1.70





#11

Tert butyl alcohol

Concen: 6.267 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Instrument :

MSVOA_F

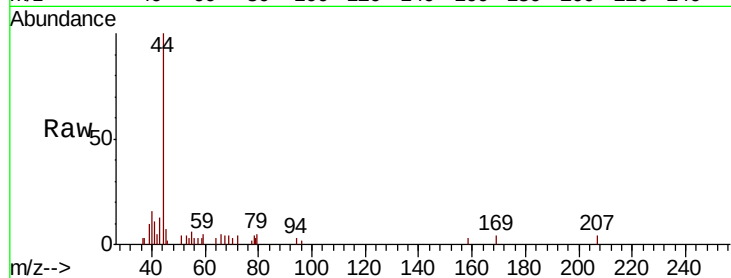
ClientSampled :

Tot Ion: 59 Resp: 737

Ion Ratio Lower Upper

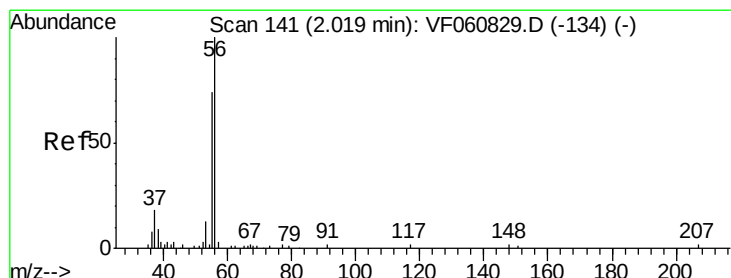
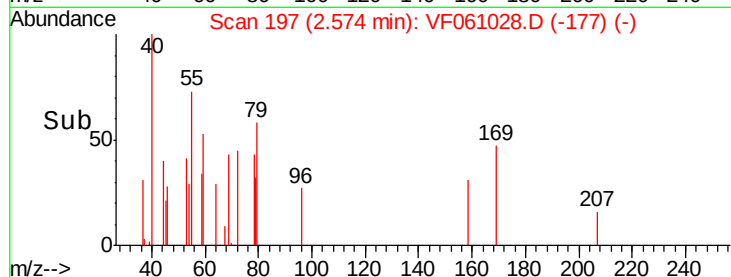
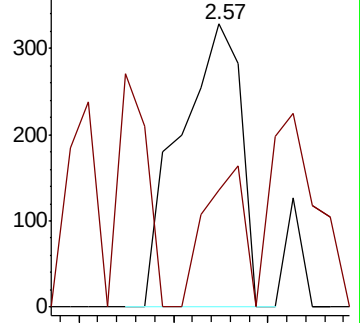
59 100

57 41.5 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: 4.434 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF061028.D

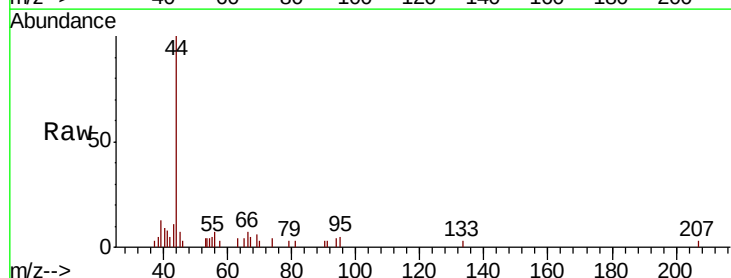
Acq: 14 Dec 2018 19:06

Tgt Ion: 56 Resp: 494

Ion Ratio Lower Upper

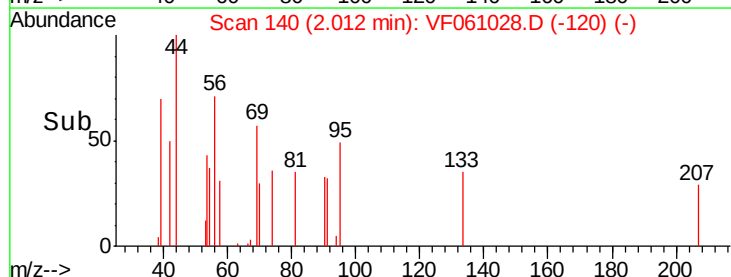
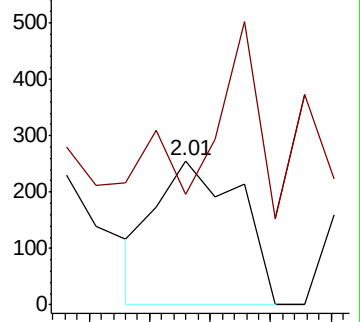
56 100

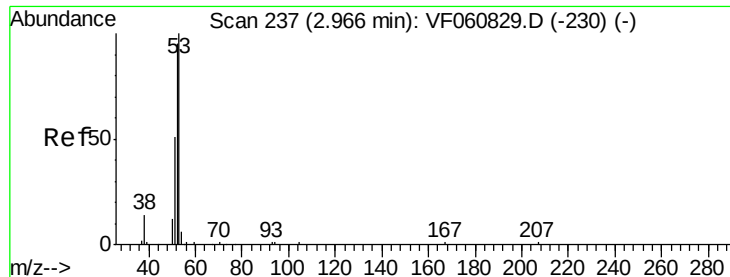
55 76.6 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 1.119 ug/l

RT: 2.96 min Scan# 236

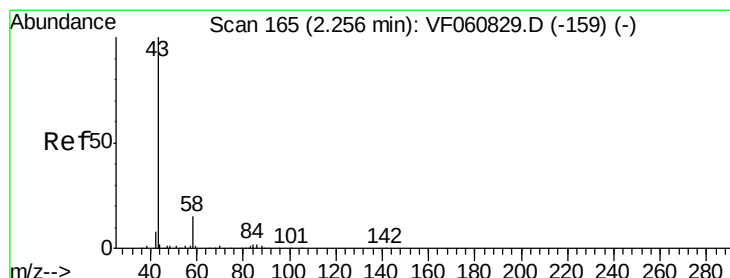
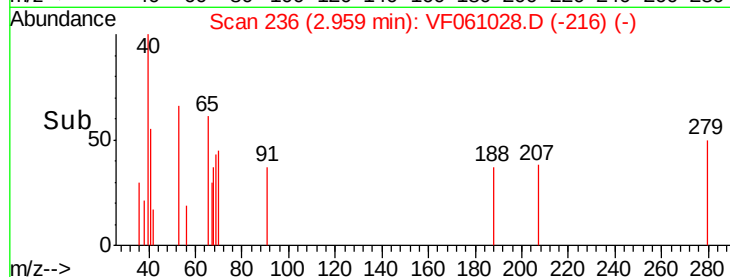
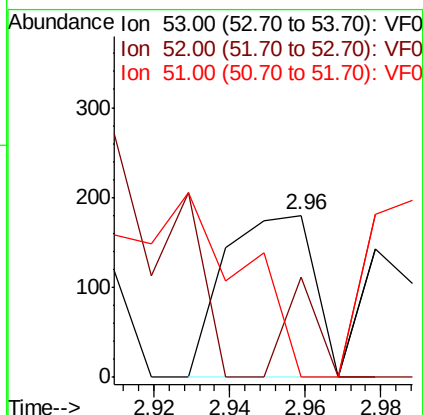
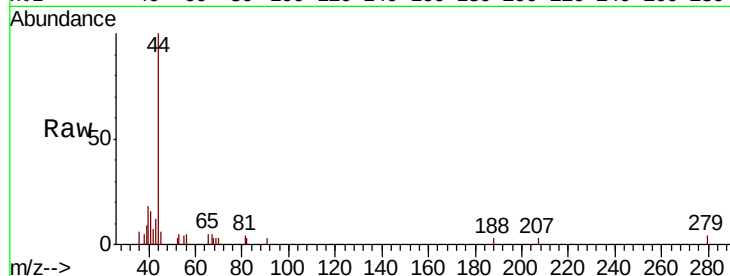
Delta R.T. -0.01 min

Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	53	Resp:	295
Ion	Ratio	Lower	Upper
53	100		
52	61.7	76.5	114.7#
51	0.0	40.7	61.1#



#16

Acetone

Concen: 47.795 ug/l

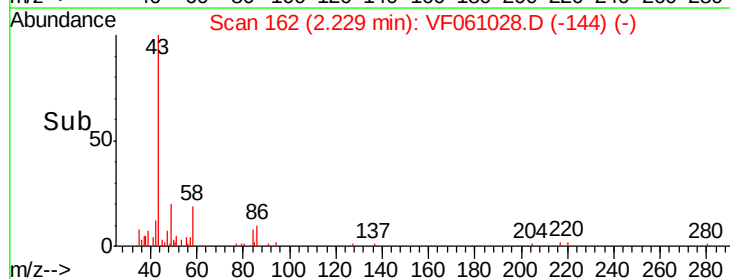
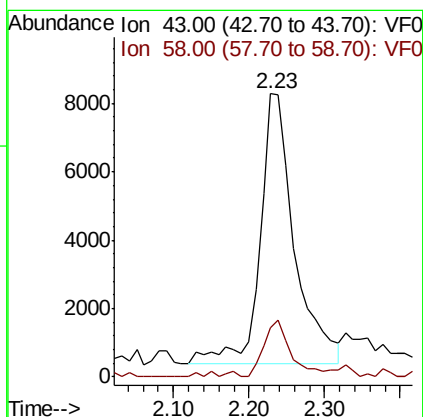
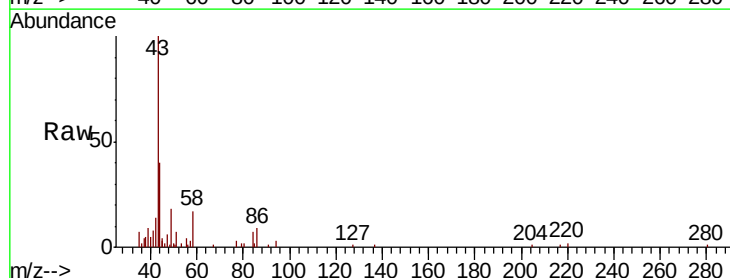
RT: 2.23 min Scan# 162

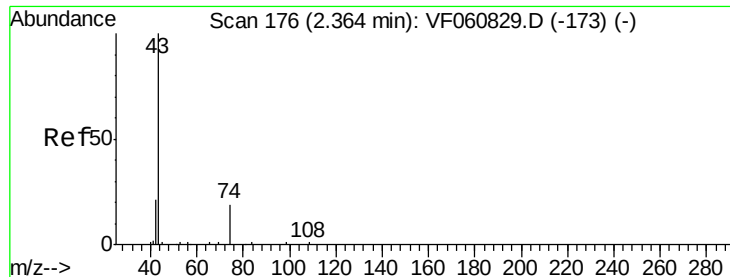
Delta R.T. -0.03 min

Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Tgt Ion:	43	Resp:	25283
Ion	Ratio	Lower	Upper
43	100		
58	17.3	11.4	17.2#

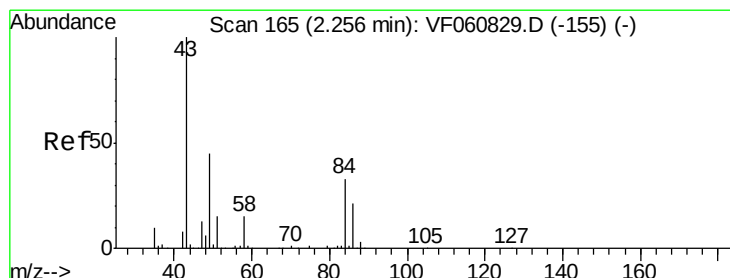
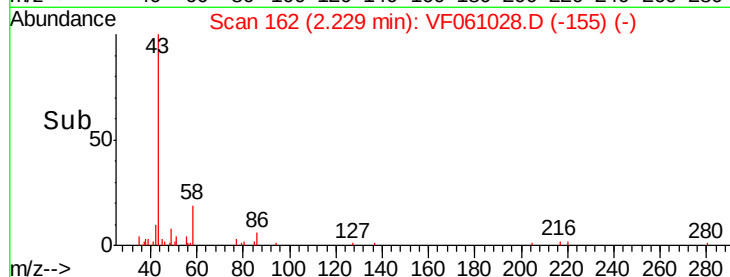
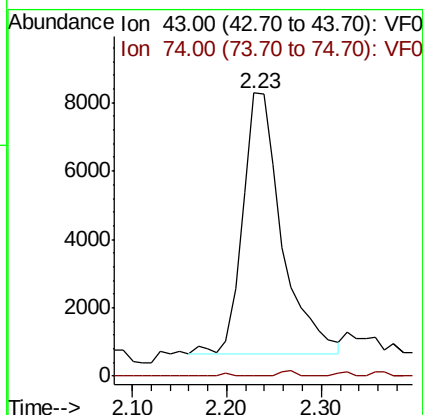
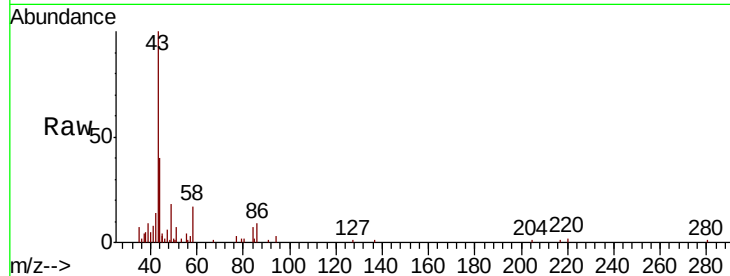




#18
Methyl Acetate
Concen: 23.990 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.14 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

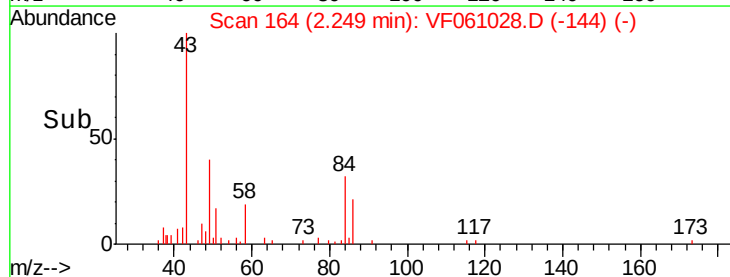
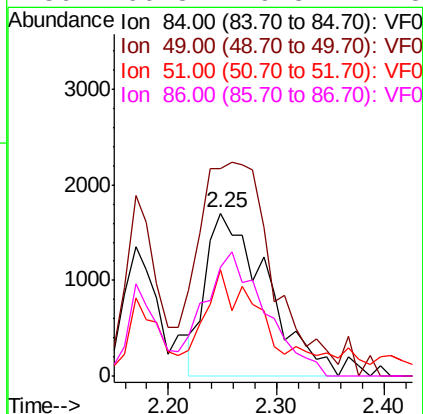
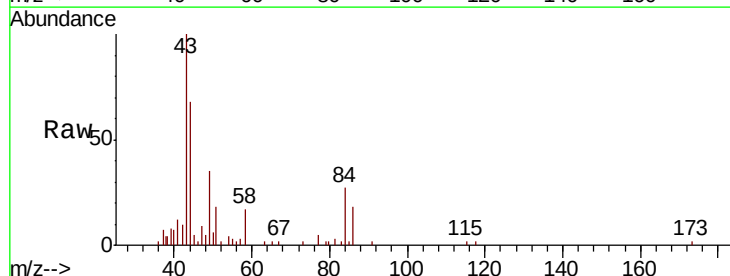
Instrument :
MSVOA_F
ClientSampleId :

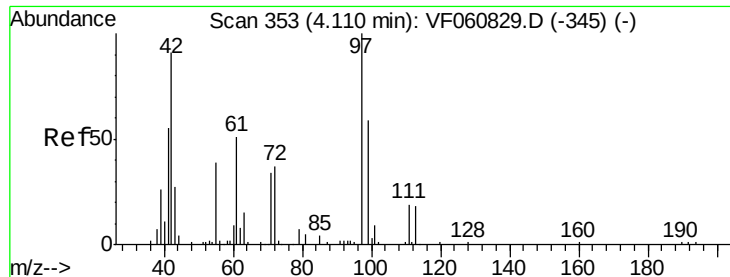
Tot Ion: 43 Resp: 22053
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 3.448 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

Tgt Ion: 84 Resp: 6692
Ion Ratio Lower Upper
84 100
49 127.8 111.3 166.9
51 65.4 38.0 57.0#
86 66.8 49.8 74.8





#29

Tetrahydrofuran

Concen: 2.313 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.05 min

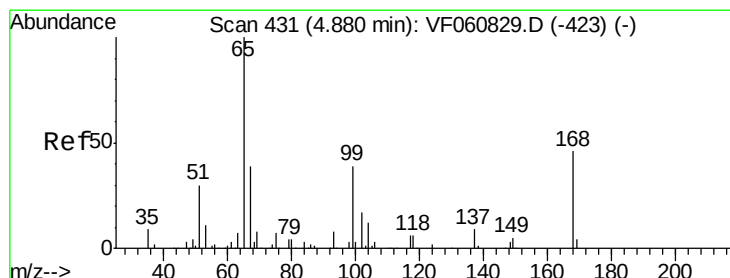
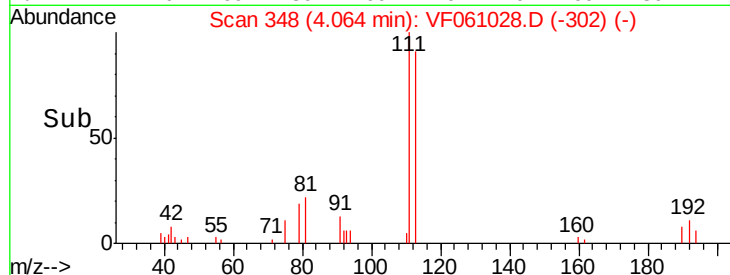
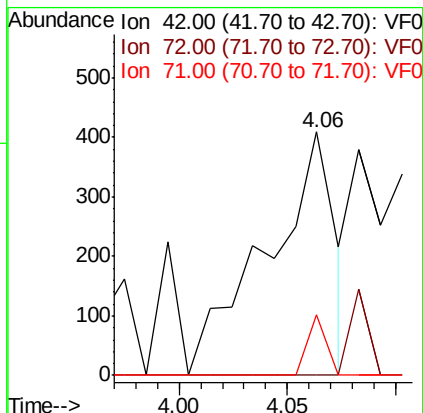
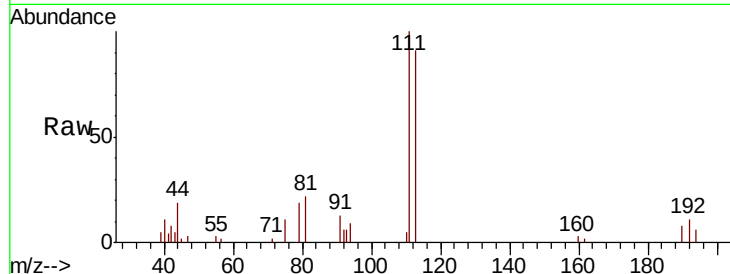
Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 897

Ion	Ratio	Lower	Upper
42	100		
72	9.5	31.9	47.9#
71	6.8	28.7	43.1#



#33

1,2-Dichloroethane-d4

Concen: 53.408 ug/l

RT: 4.84 min Scan# 427

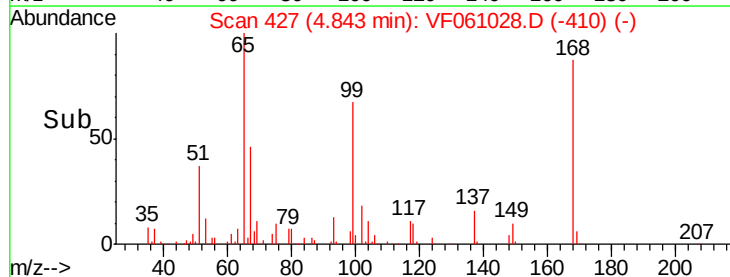
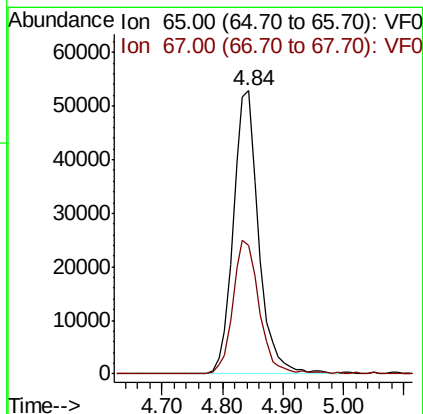
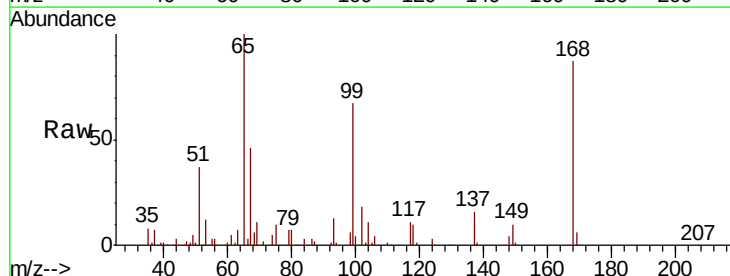
Delta R.T. -0.04 min

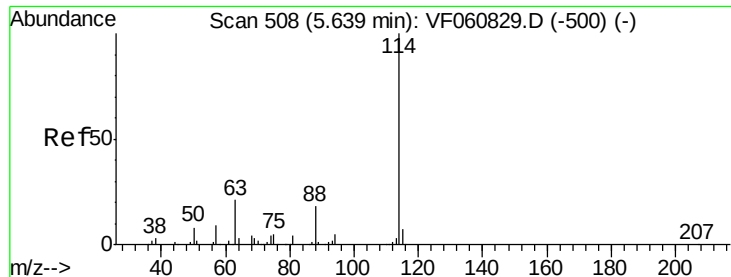
Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Tgt Ion: 65 Resp: 153208

Ion	Ratio	Lower	Upper
65	100		
67	45.6	0.0	96.4

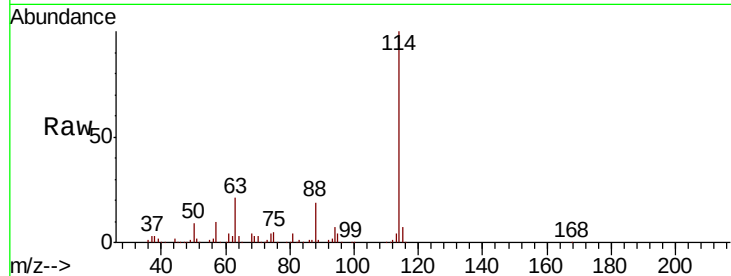




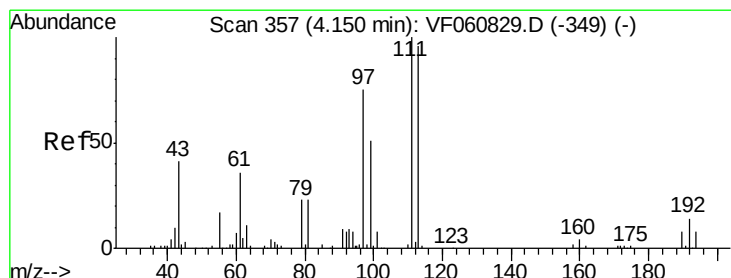
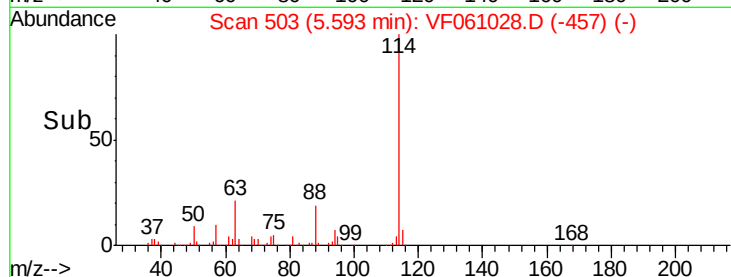
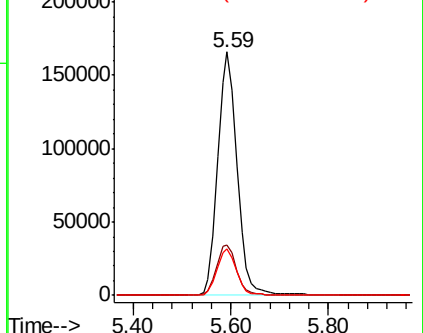
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.59 min Scan# 503
Delta R.T. -0.05 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	41.6
88	18.8	0.0	36.6

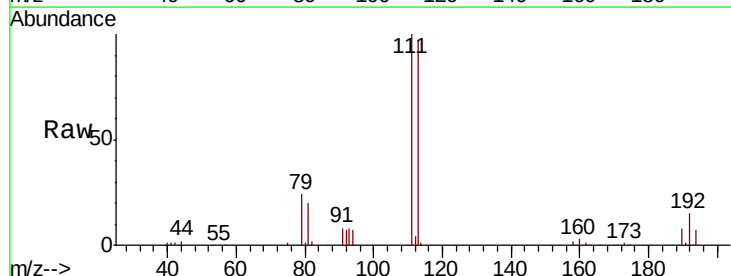


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

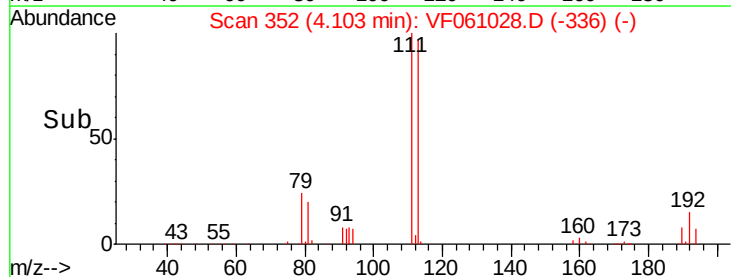
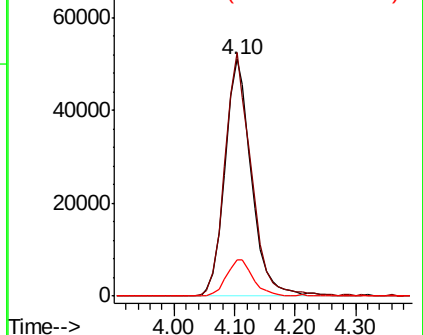


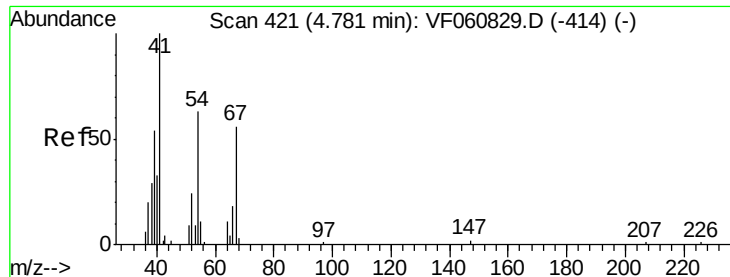
#35
Dibromofluoromethane
Concen: 42.428 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.05 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.0	124.6
192	15.5	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: 4.75 min Scan# 418

Delta R.T. -0.03 min

Lab File: VF061028.D

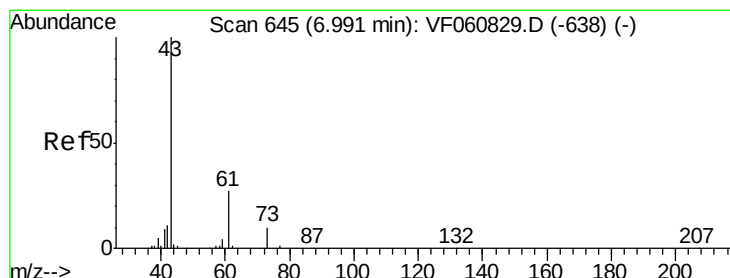
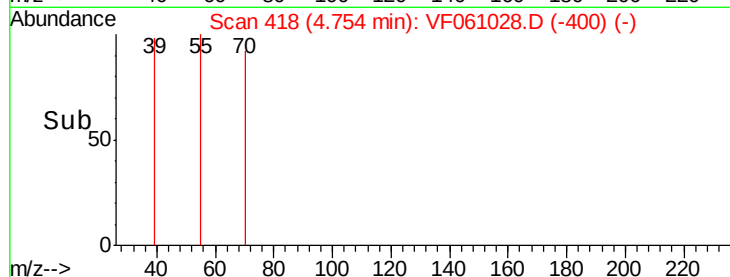
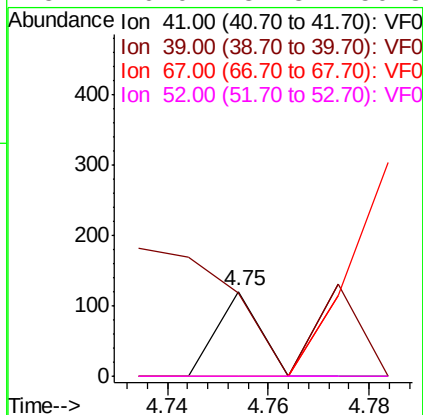
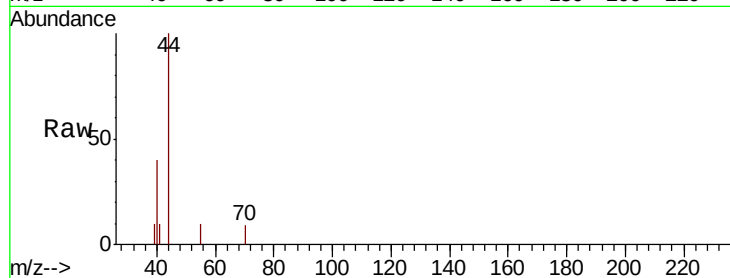
Acq: 14 Dec 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	41	Resp:	71
Ion	Ratio	Lower	Upper
41	100		
39	99.2	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43

Isopropyl Acetate

Concen: Below Cal

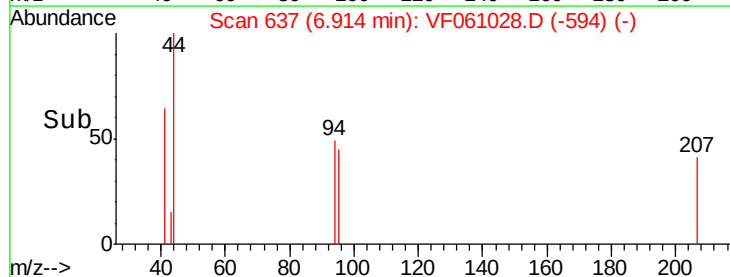
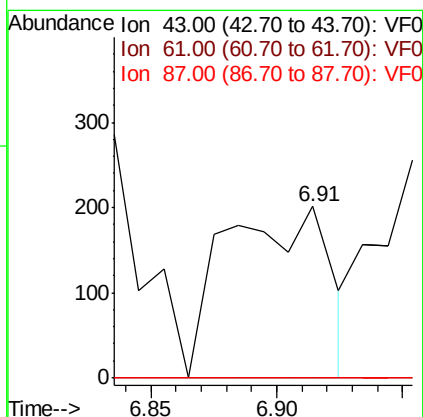
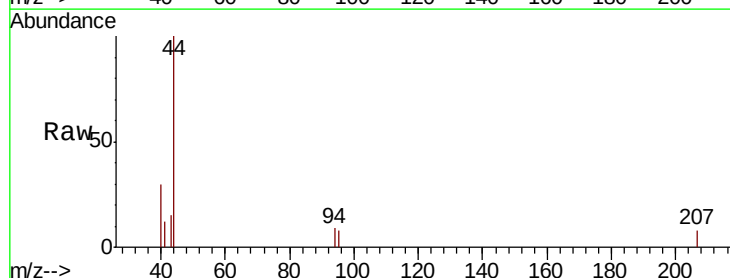
RT: 6.91 min Scan# 637

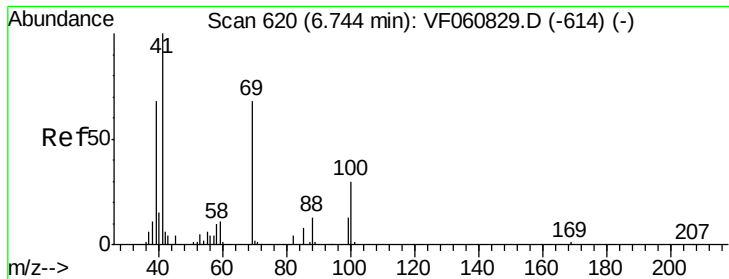
Delta R.T. -0.08 min

Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Tgt Ion:	43	Resp:	573
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

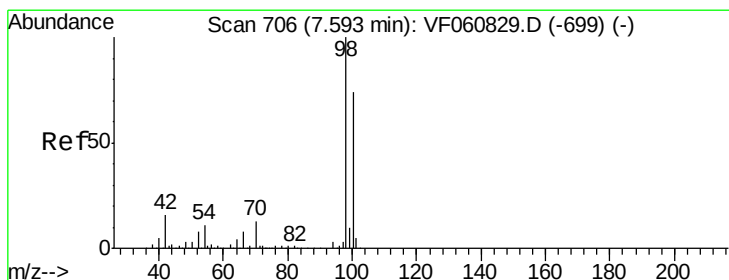
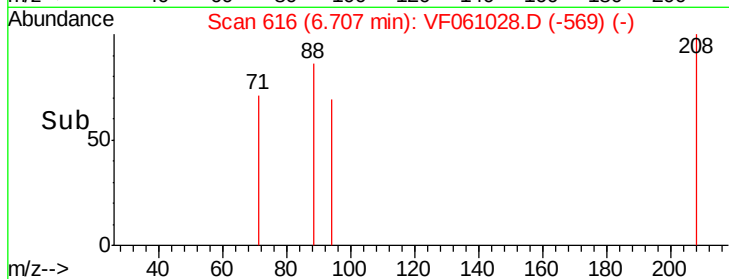
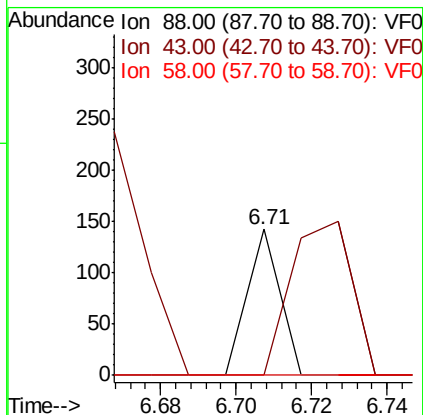
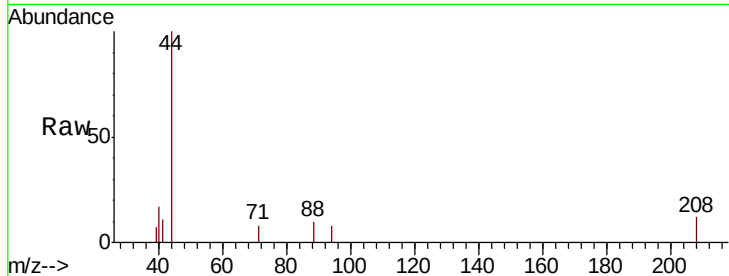




#49
1,4-Dioxane
Concen: 6.158 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.04 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

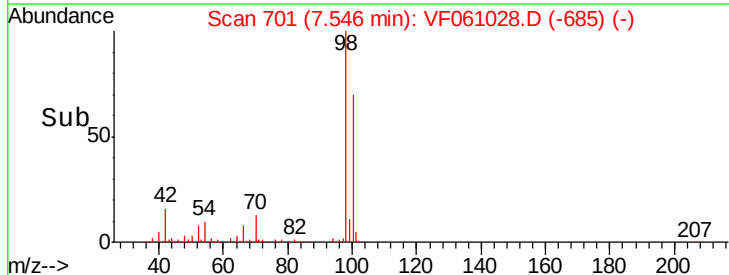
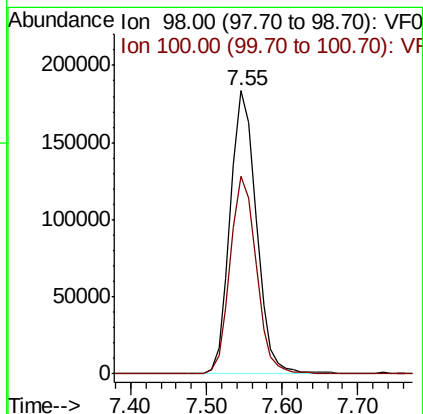
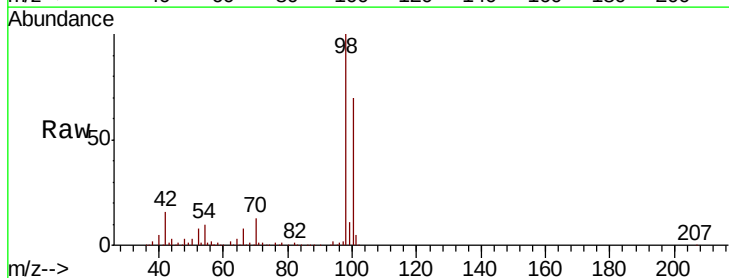
Instrument :
MSVOA_F
ClientSampleId :

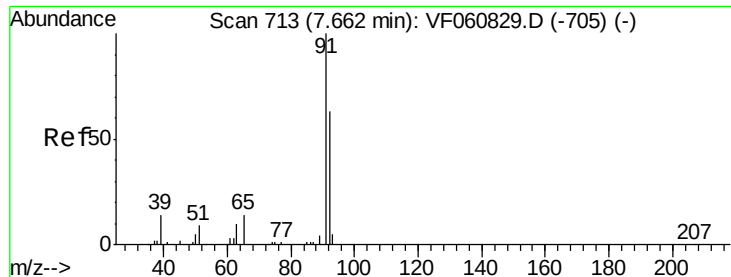
Tot Ion: 88 Resp: 85
Ion Ratio Lower Upper
88 100
43 0.0 42.0 63.0#
58 0.0 61.8 92.8#



#50
Toluene-d8
Concen: 40.743 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

Tgt Ion: 98 Resp: 440119
Ion Ratio Lower Upper
98 100
100 69.7 59.3 88.9





#52

Toluene

Concen: 1.104 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

Instrument :

MSVOA_F

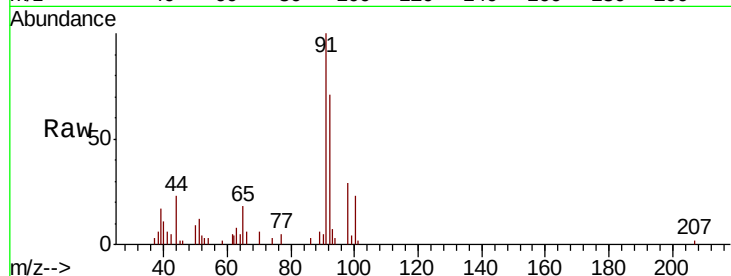
ClientSampleId :

Tot Ion: 92 Resp: 8783

Ion Ratio Lower Upper

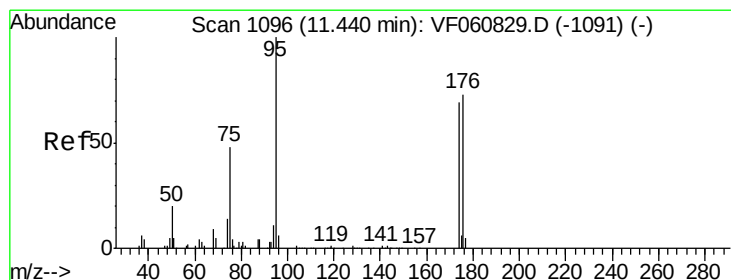
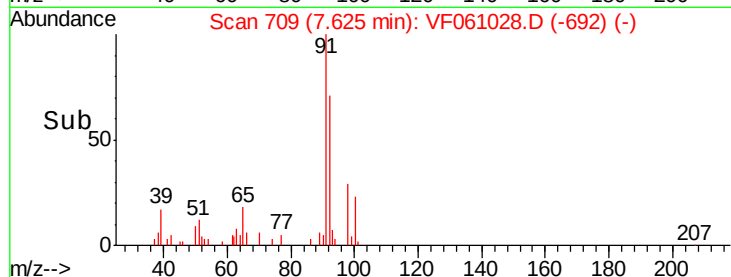
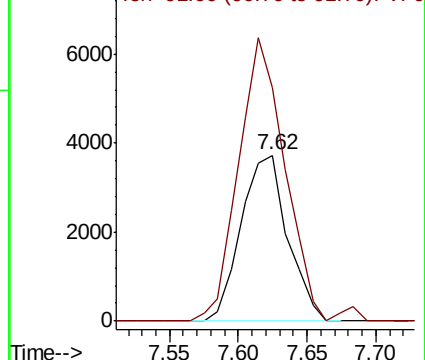
92 100

91 140.3 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#62

4-Bromofluorobenzene

Concen: 40.144 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF061028.D

Acq: 14 Dec 2018 19:06

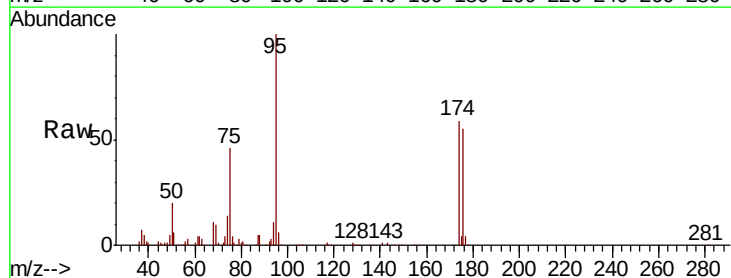
Tgt Ion: 95 Resp: 197085

Ion Ratio Lower Upper

95 100

174 59.1 0.0 138.2

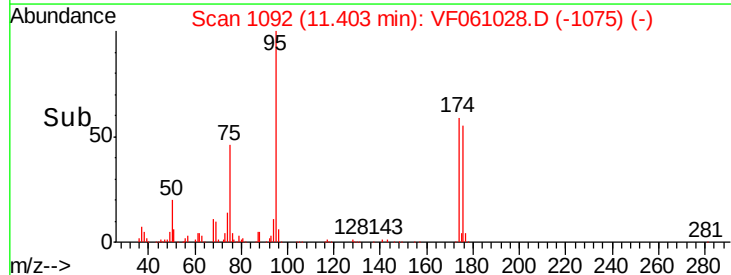
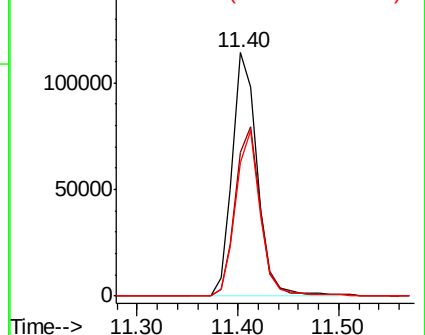
176 55.0 0.0 146.2

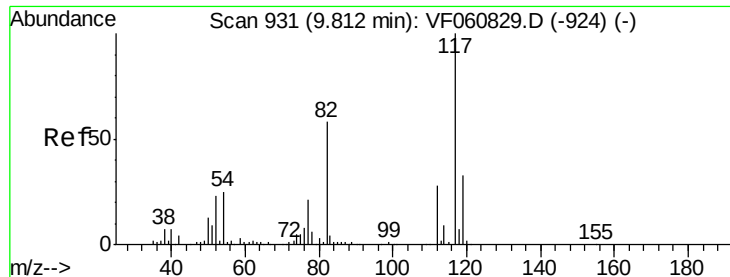


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

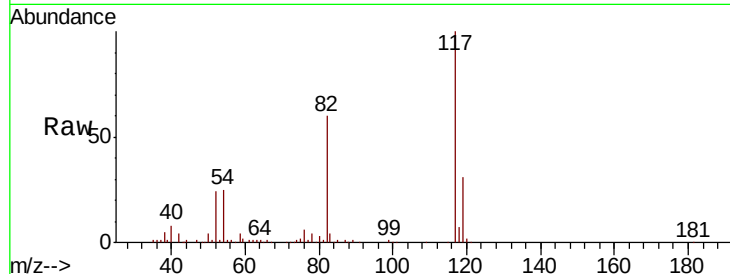




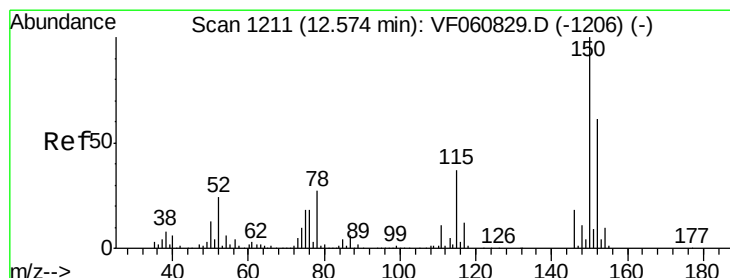
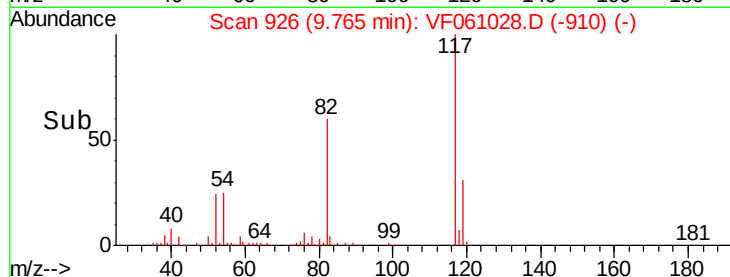
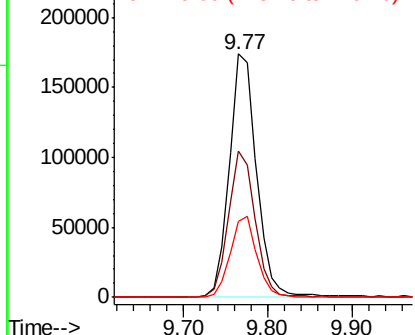
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.05 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.1	46.6	69.8
119	31.3	26.4	39.6

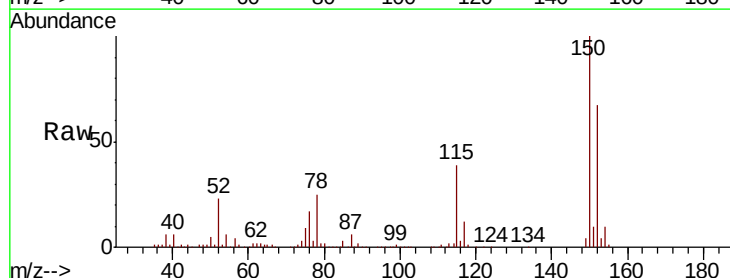


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

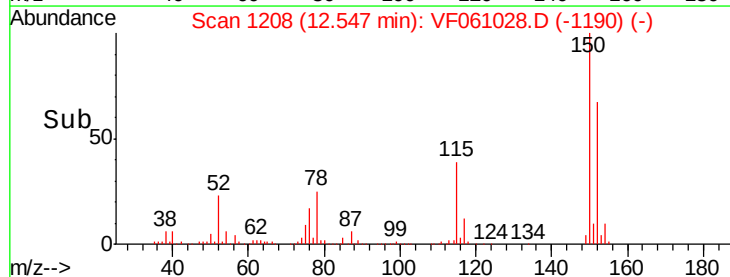
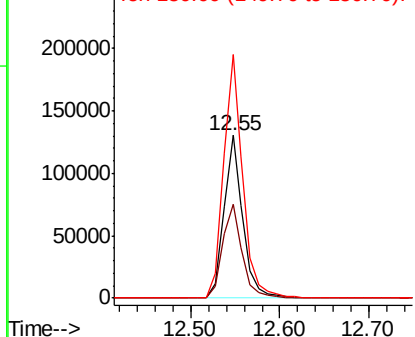


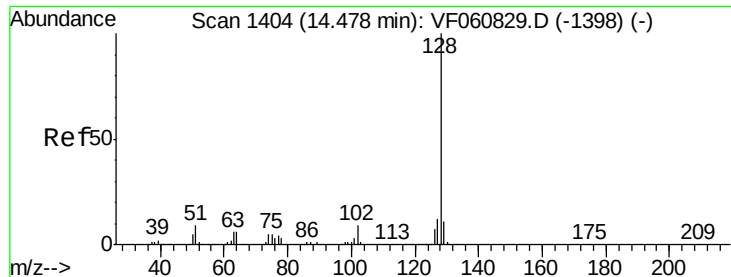
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	30.1	90.5
150	149.7	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

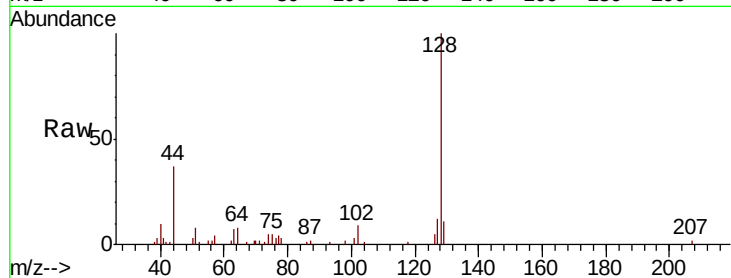




#95
Naphthalene
Concen: Below Cal
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF061028.D
Acq: 14 Dec 2018 19:06

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.7	9.9	14.9
129	10.7	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

