

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022719\
 Data File : VF061771.D
 Acq On : 27 Feb 2019 17:33
 Operator : VA/AP
 Sample : K1353-01
 Misc : 9.44g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 28 01:00:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	155779	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	217931	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	163725	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	71939	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	43458	38.04	ug/l	-0.02
Spiked Amount			Recovery	=	76.08%	
35) Dibromofluoromethane	4.11	113	69369	42.86	ug/l	-0.01
Spiked Amount			Recovery	=	85.72%	
50) Toluene-d8	7.54	98	171264	36.81	ug/l	-0.02
Spiked Amount			Recovery	=	73.62%	
62) 4-Bromofluorobenzene	11.40	95	65036	34.55	ug/l	-0.01
Spiked Amount			Recovery	=	69.10%	

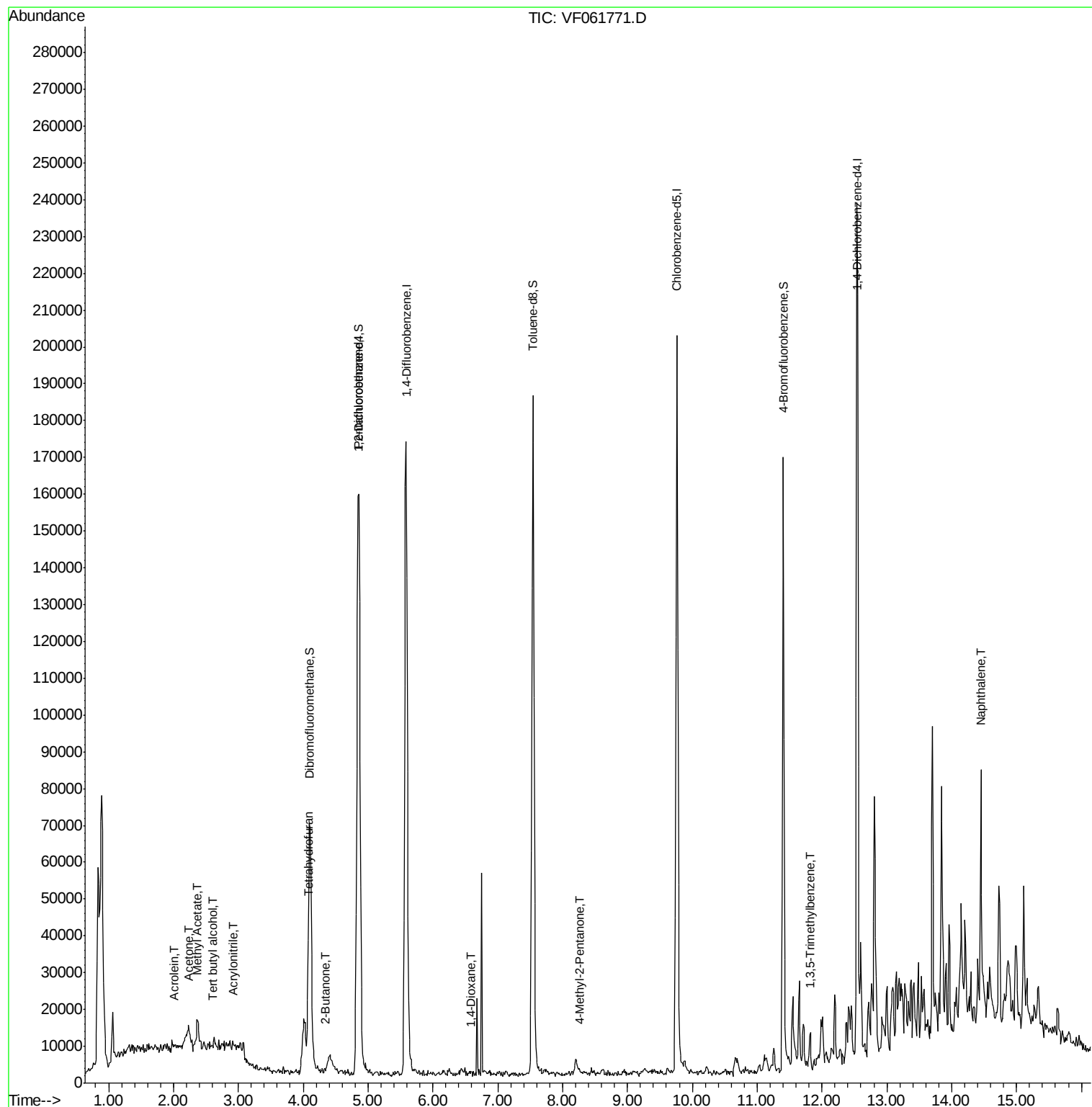
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.60	59	67	1.013	ug/l #	63
13) Acrolein	2.00	56	816	9.821	ug/l	95
15) Acrylonitrile	2.91	53	677	2.887	ug/l #	79
16) Acetone	2.23	43	6954	28.372	ug/l #	82
18) Methyl Acetate	2.37	43	6213	11.252	ug/l #	59
20) Methylene Chloride	2.18	84	1712	Below Cal	#	93
25) 2-Butanone	4.34	43	1106	2.066	ug/l #	55
29) Tetrahydrofuran	4.07	42	1256	5.162	ug/l #	39
49) 1,4-Dioxane	6.58	88	77	11.467	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	1204	1.420	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.82	105	5178	1.265	ug/l	95
95) Naphthalene	14.45	128	5505	1.871	ug/l #	72

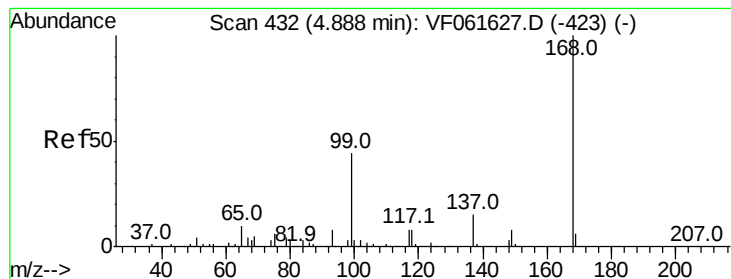
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061771.D

Acq: 27 Feb 2019 17:33

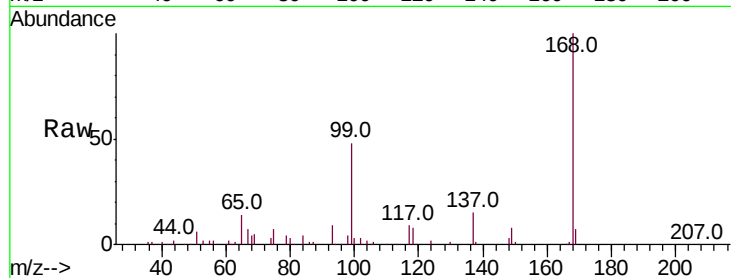
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 155779

Ion Ratio Lower Upper

168 100

99 48.4 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

50000

40000

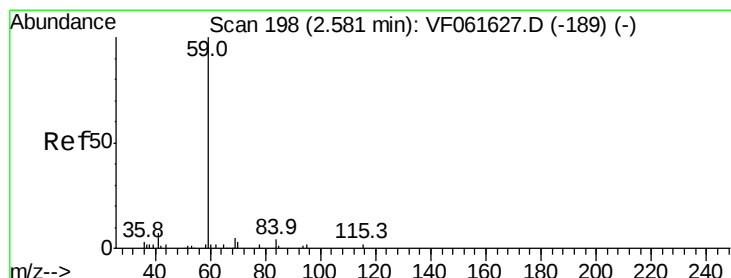
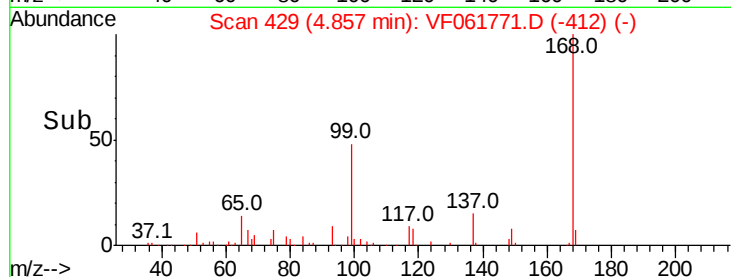
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.013 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.02 min

Lab File: VF061771.D

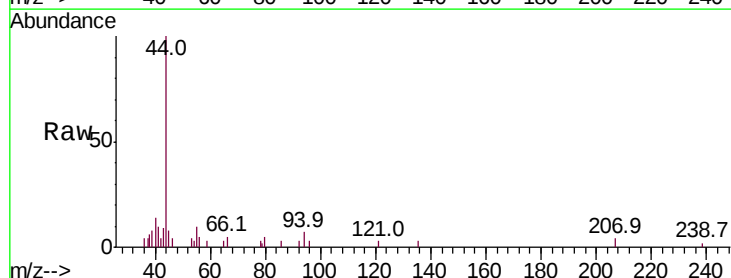
Acq: 27 Feb 2019 17:33

Tgt Ion: 59 Resp: 67

Ion Ratio Lower Upper

59 100

57 0.0 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.60

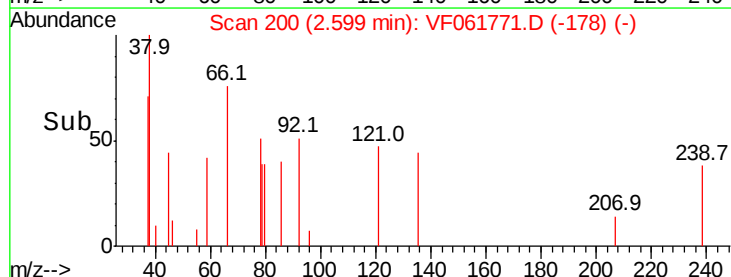
150

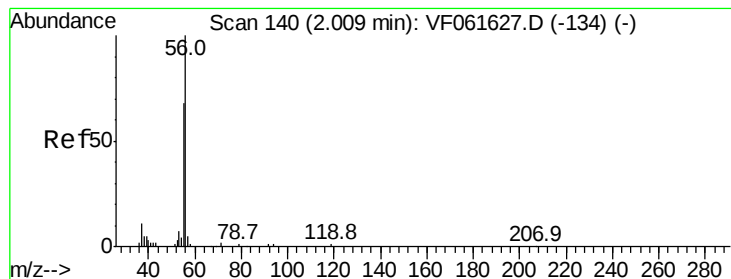
100

50

0

Time-->





#13

Acrolein

Concen: 9.821 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061771.D

Acq: 27 Feb 2019 17:33

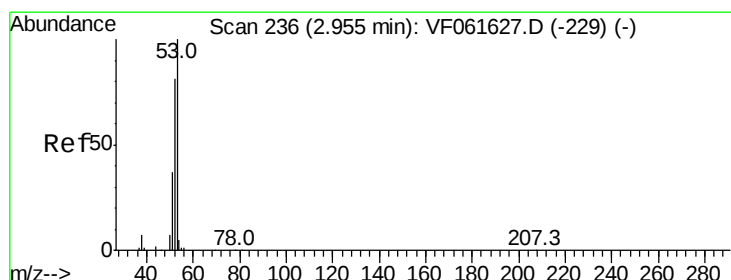
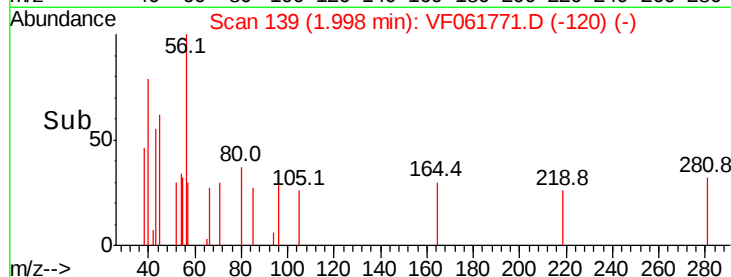
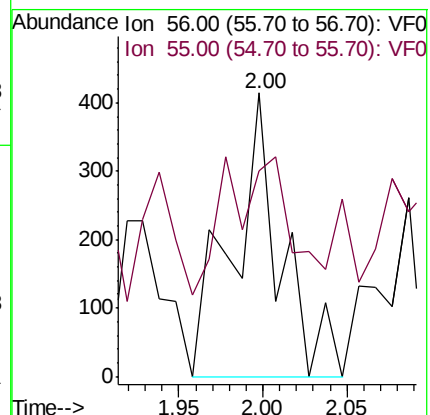
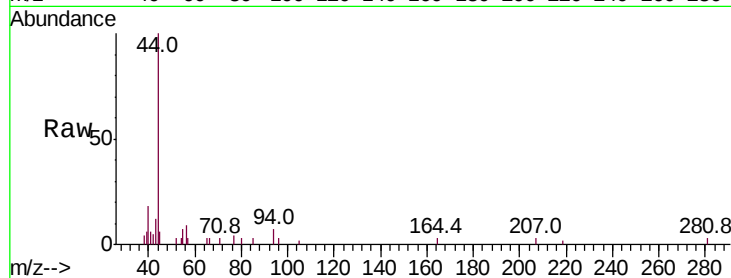
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 816

Ion Ratio Lower Upper

56 100

55 72.5 55.0 82.6



#15

Acrylonitrile

Concen: 2.887 ug/l

RT: 2.91 min Scan# 232

Delta R.T. -0.04 min

Lab File: VF061771.D

Acq: 27 Feb 2019 17:33

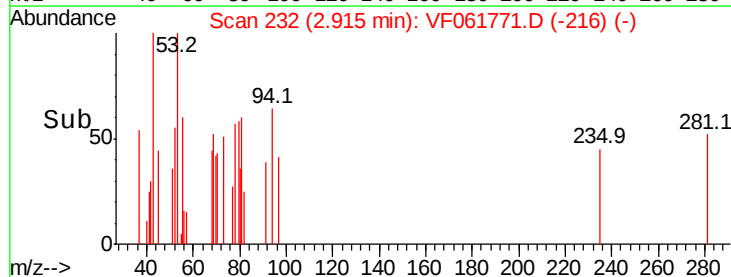
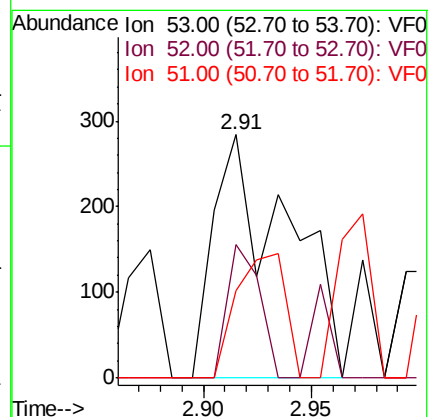
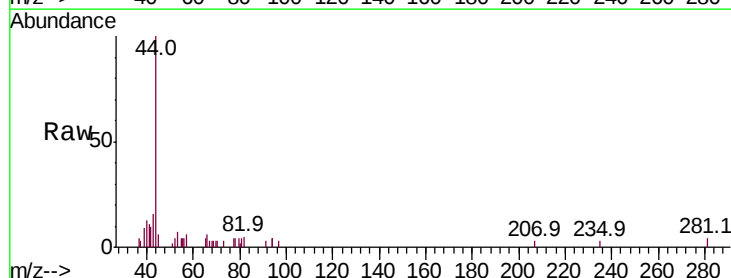
Tgt Ion: 53 Resp: 677

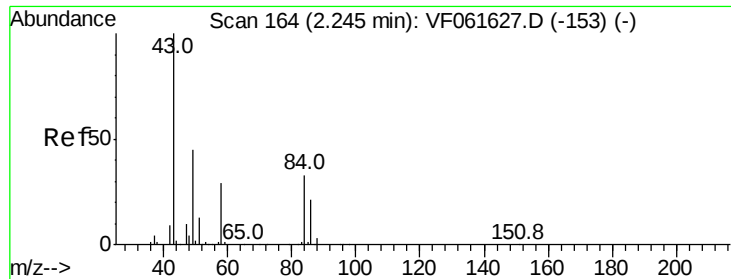
Ion Ratio Lower Upper

53 100

52 54.6 64.6 97.0#

51 35.9 29.8 44.8

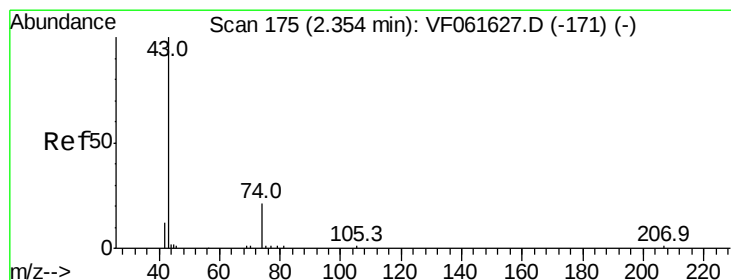
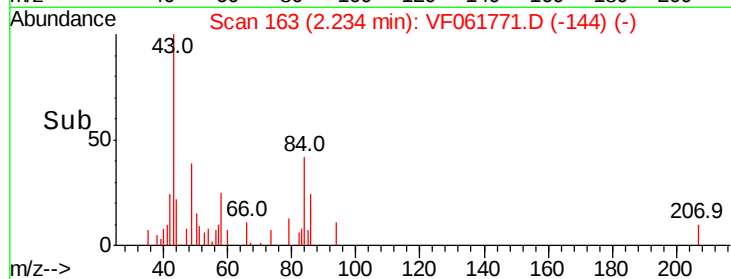
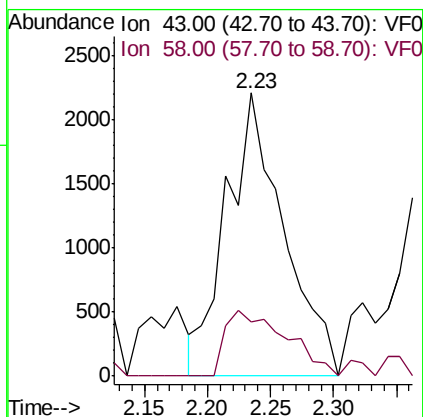
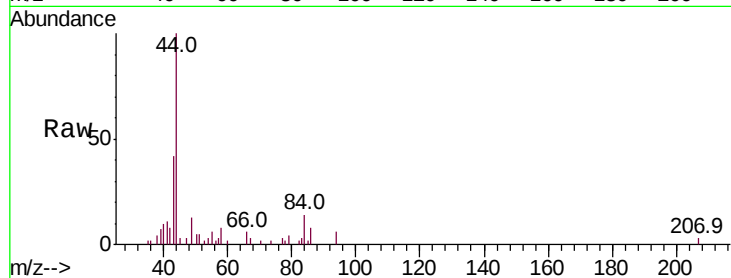




#16
Acetone
Concen: 28.372 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.01 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

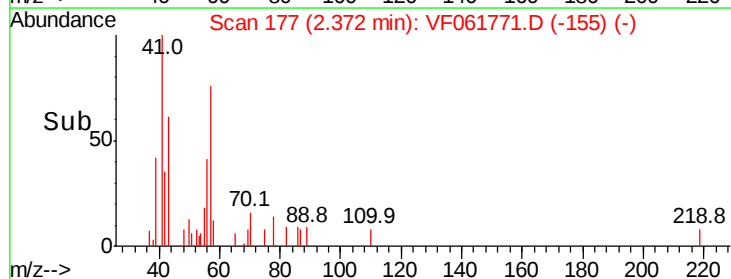
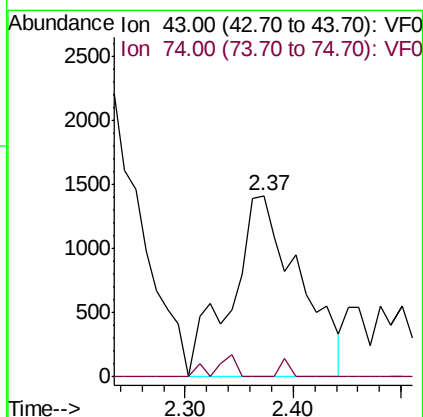
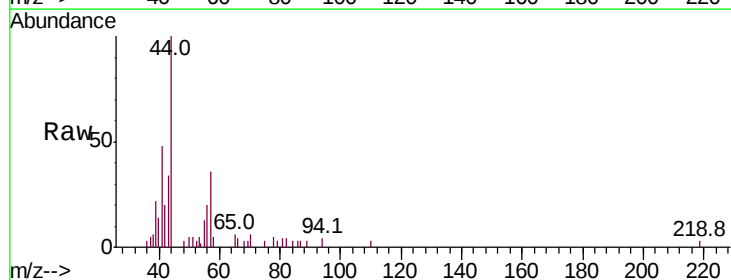
Instrument :
MSVOA_F
ClientSampleId :

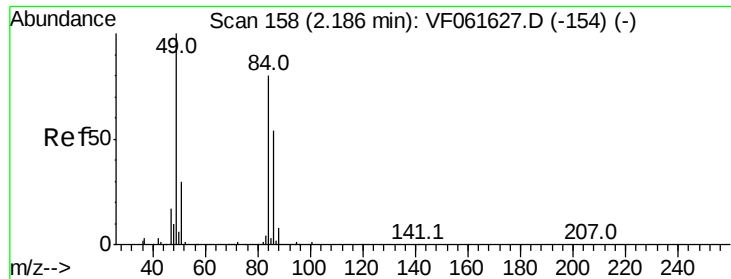
Tot Ion: 43 Resp: 6954
Ion Ratio Lower Upper
43 100
58 19.2 22.9 34.3#



#18
Methyl Acetate
Concen: 11.252 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

Tgt Ion: 43 Resp: 6213
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#

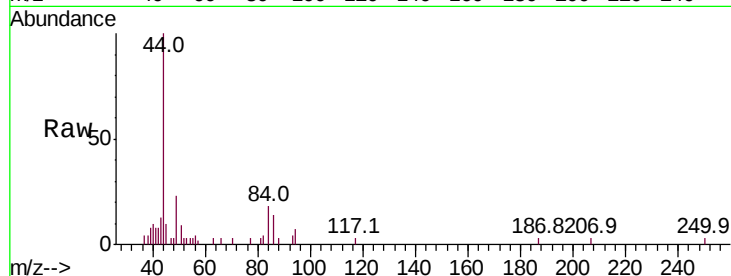




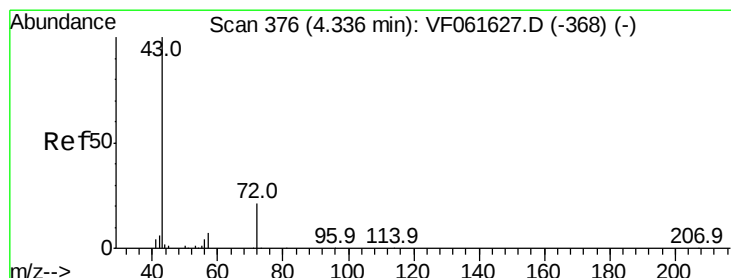
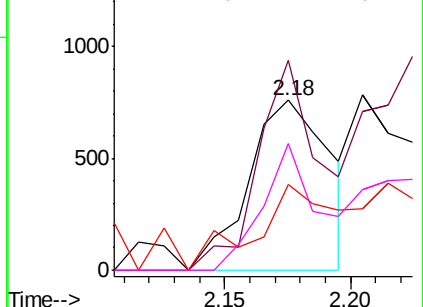
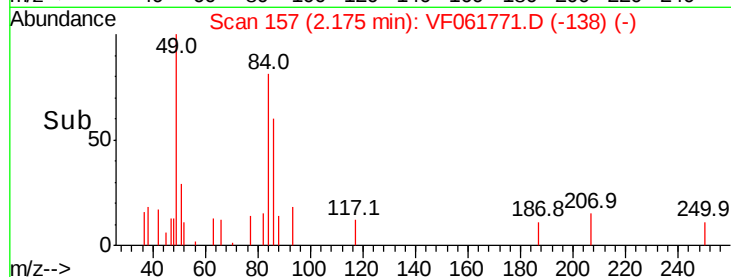
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 84 Resp: 1712
Ion Ratio Lower Upper
84 100
49 123.7 101.8 152.8
51 50.4 31.1 46.7#
86 74.3 54.4 81.6

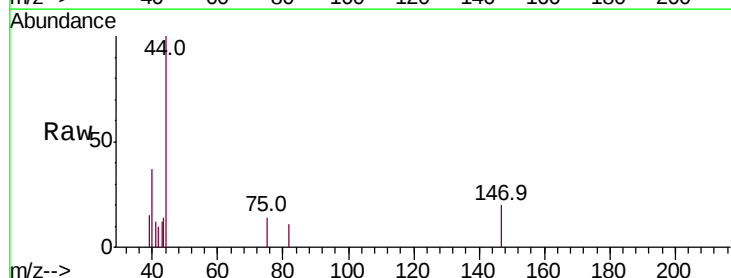


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

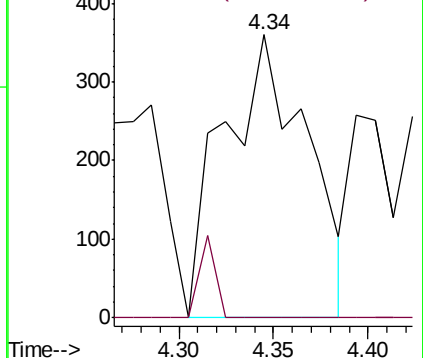
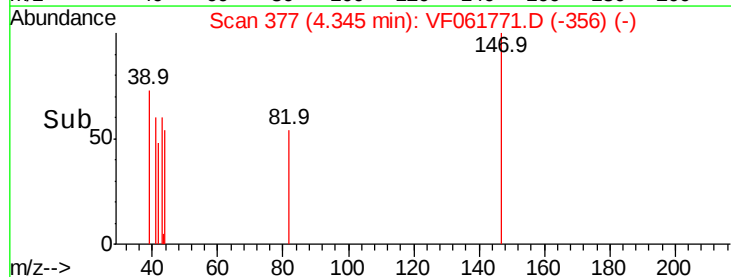


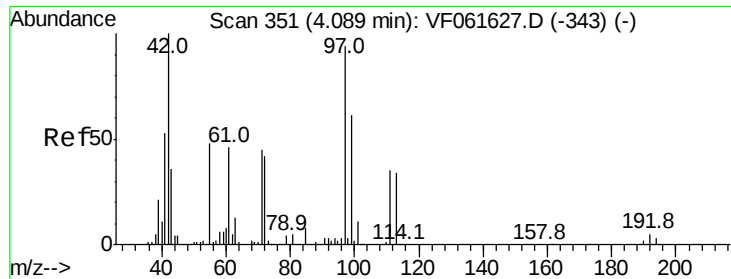
#25
2-Butanone
Concen: 2.066 ug/l
RT: 4.34 min Scan# 377
Delta R.T. 0.01 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

Tgt Ion: 43 Resp: 1106
Ion Ratio Lower Upper
43 100
72 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0

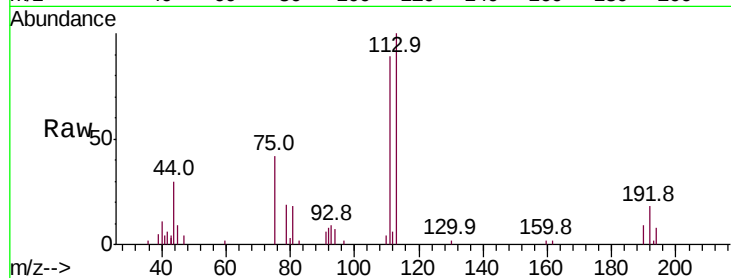




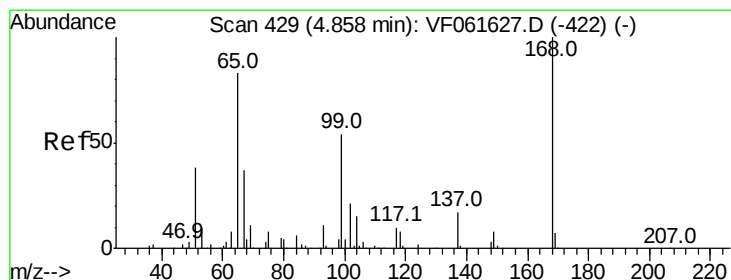
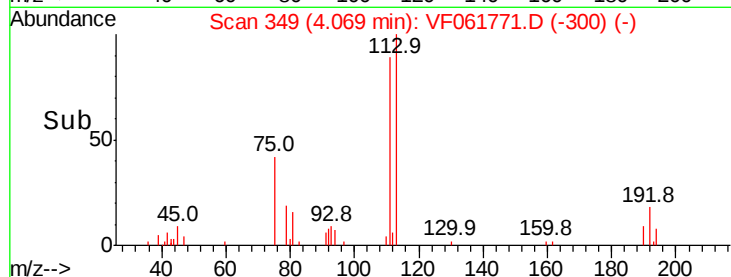
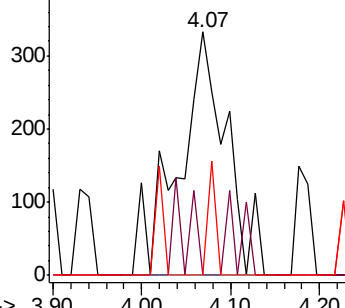
#29
Tetrahydrofuran
Concen: 5.162 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.02 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 1256
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 7.3 32.9 49.3#

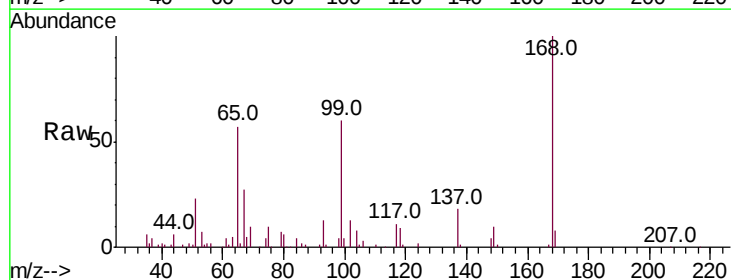


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

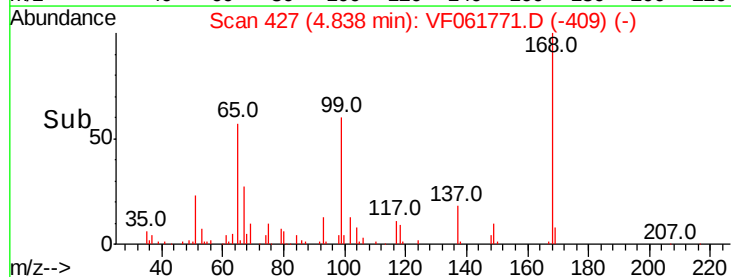
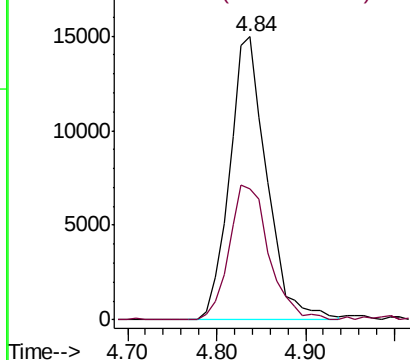


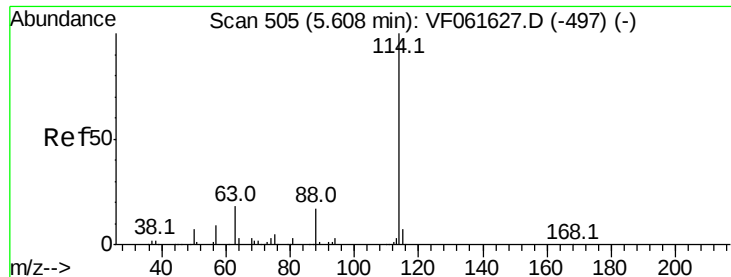
#33
1,2-Dichloroethane-d4
Concen: 38.043 ug/l
RT: 4.84 min Scan# 427
Delta R.T. -0.02 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

Tgt Ion: 65 Resp: 43458
Ion Ratio Lower Upper
65 100
67 46.5 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

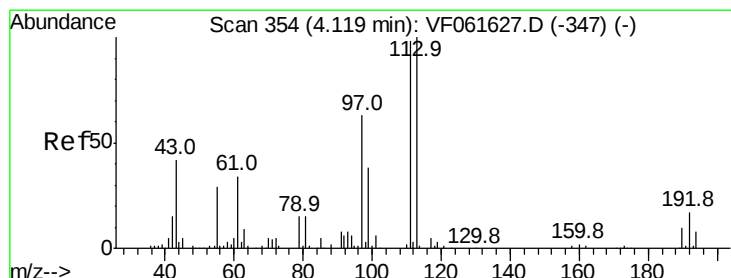
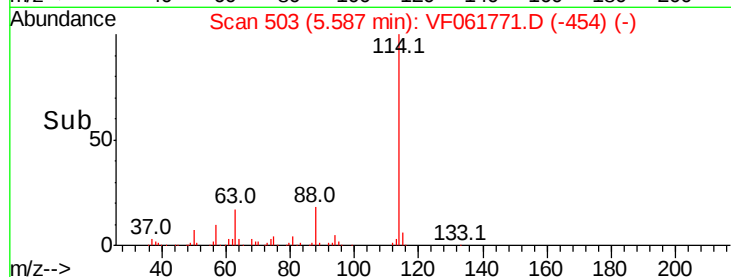
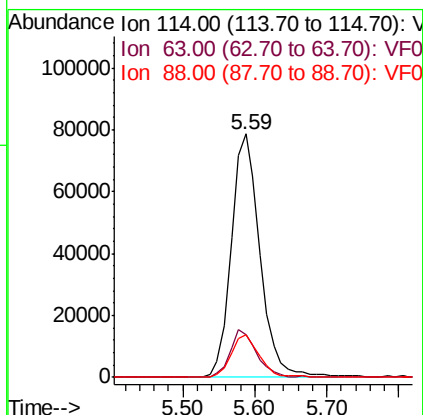
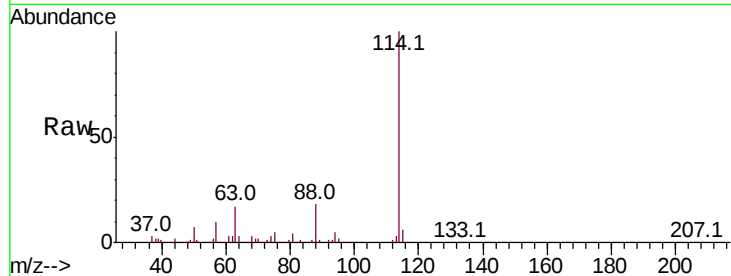




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061771.D
 Acq: 27 Feb 2019 17:33

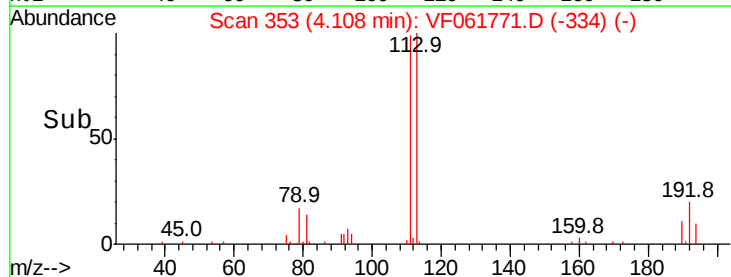
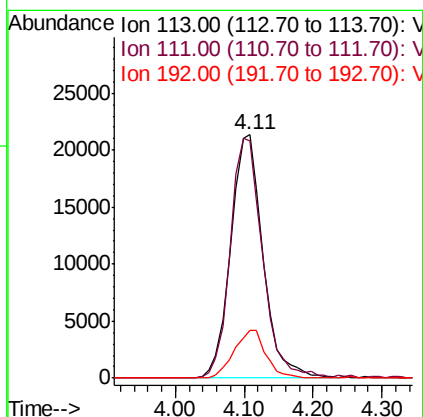
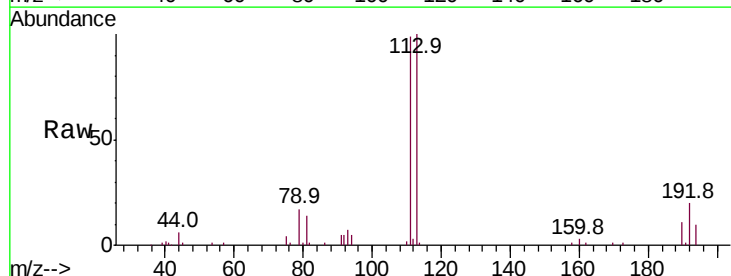
Instrument :
 MSVOA_F
 ClientSampleId :

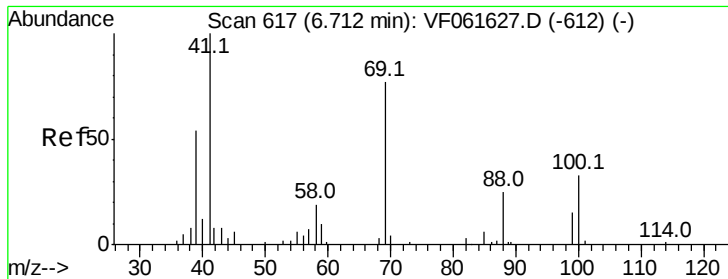
Tot Ion:114 Resp: 217931
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 36.6
 88 17.7 0.0 34.4



#35
 Dibromofluoromethane
 Concen: 42.863 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.01 min
 Lab File: VF061771.D
 Acq: 27 Feb 2019 17:33

Tgt Ion:113 Resp: 69369
 Ion Ratio Lower Upper
 113 100
 111 97.5 78.8 118.2
 192 19.9 13.4 20.0





#49

1,4-Dioxane

Concen: 11.467 ug/l

RT: 6.58 min Scan# 604

Delta R.T. -0.13 min

Lab File: VF061771.D

Acq: 27 Feb 2019 17:33

Instrument :
MSVOA_F
ClientSampleId :

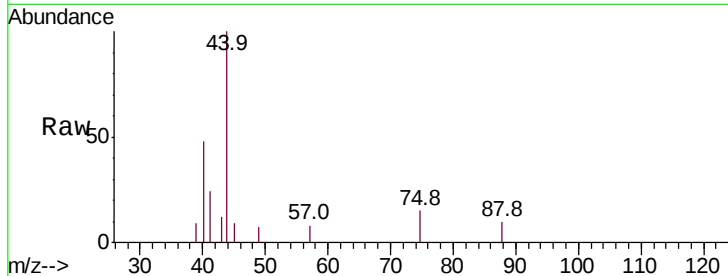
Tot Ion: 88 Resp: 77

Ion Ratio Lower Upper

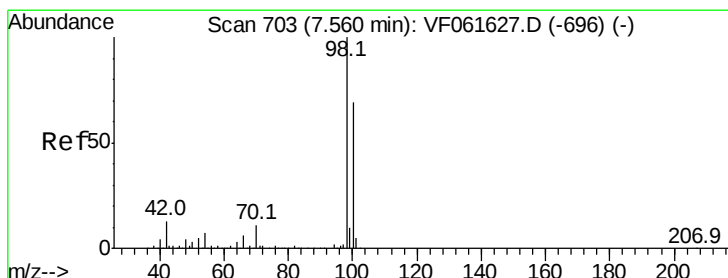
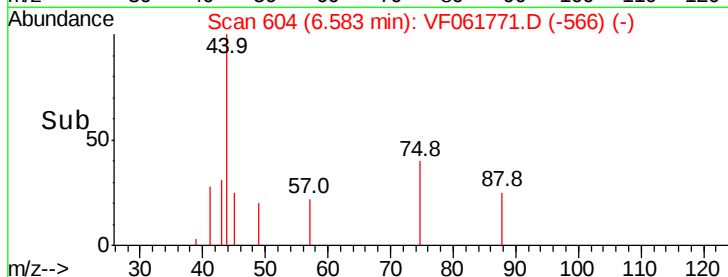
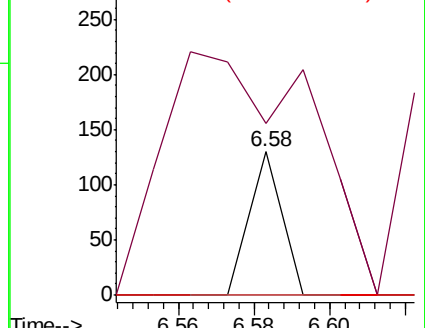
88 100

43 120.0 32.3 48.5#

58 0.0 59.4 89.2#



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: 36.812 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061771.D

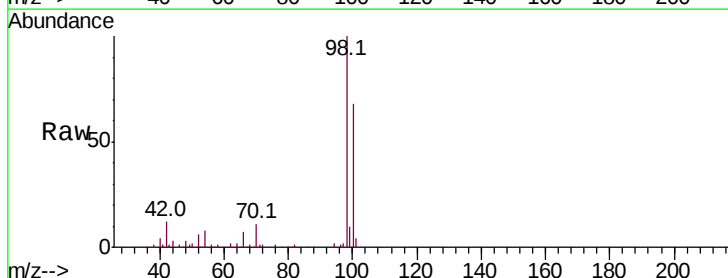
Acq: 27 Feb 2019 17:33

Tgt Ion: 98 Resp: 171264

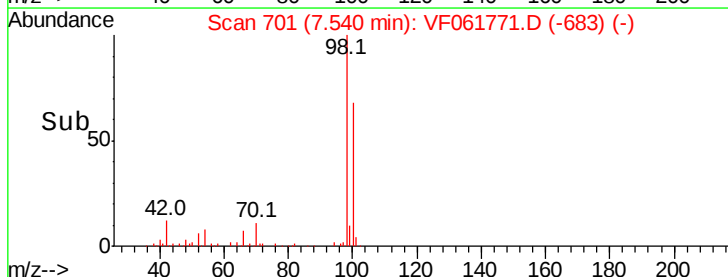
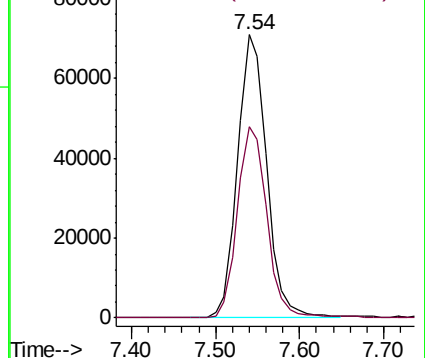
Ion Ratio Lower Upper

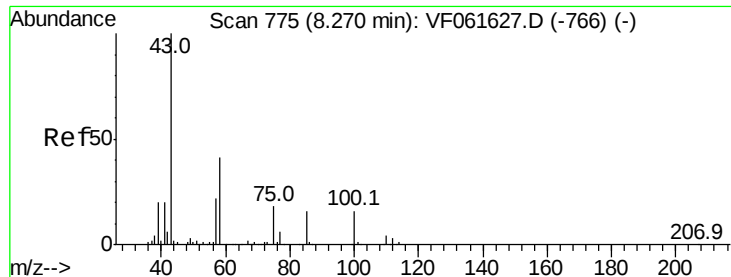
98 100

100 67.5 55.4 83.2



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: 1.420 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061771.D

Acq: 27 Feb 2019 17:33

Instrument :

MSVOA_F

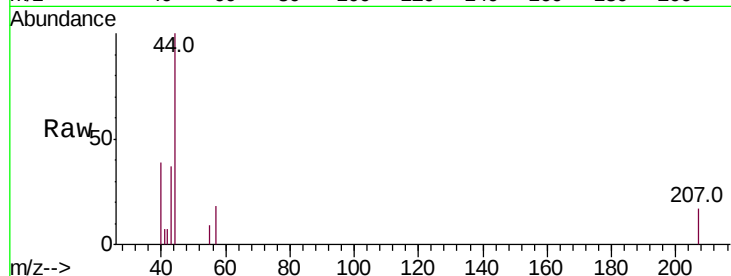
ClientSampleId :

Tot Ion: 43 Resp: 1204

Ion Ratio Lower Upper

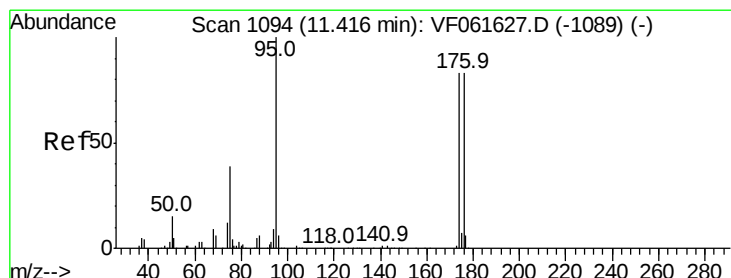
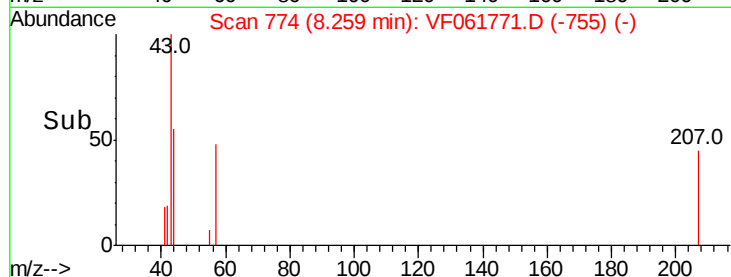
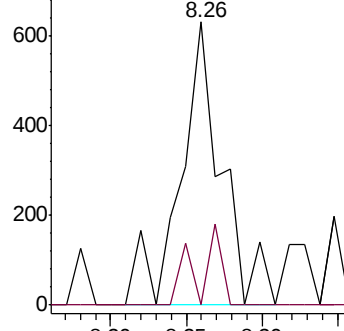
43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 34.549 ug/l

RT: 11.40 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061771.D

Acq: 27 Feb 2019 17:33

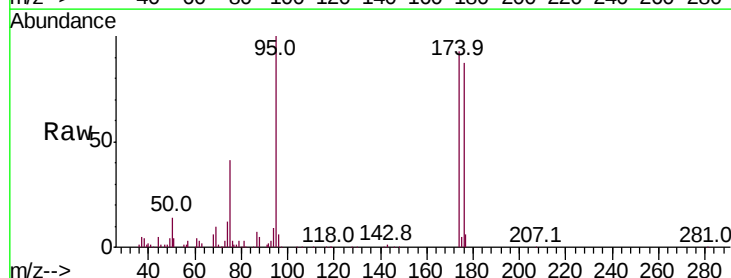
Tgt Ion: 95 Resp: 65036

Ion Ratio Lower Upper

95 100

174 92.9 0.0 165.8

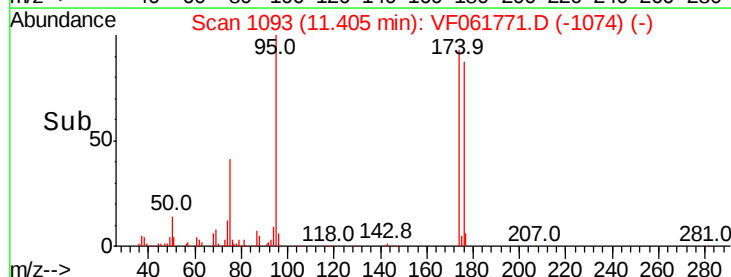
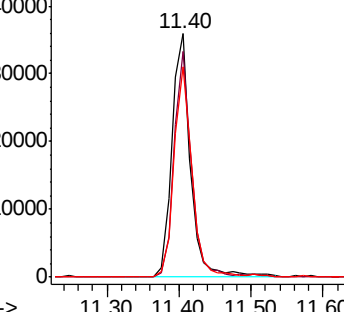
176 86.6 0.0 167.0

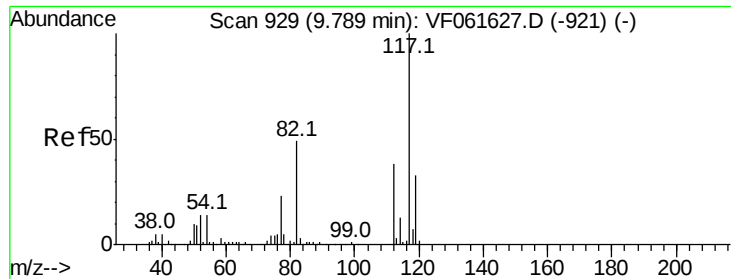


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

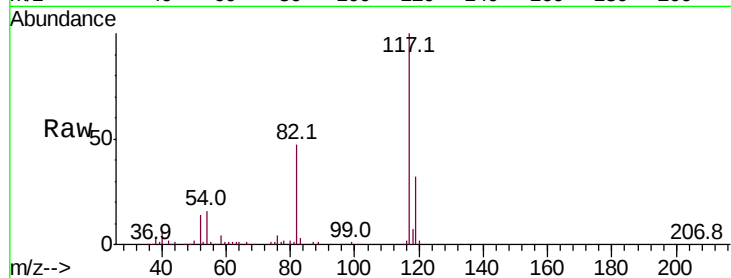




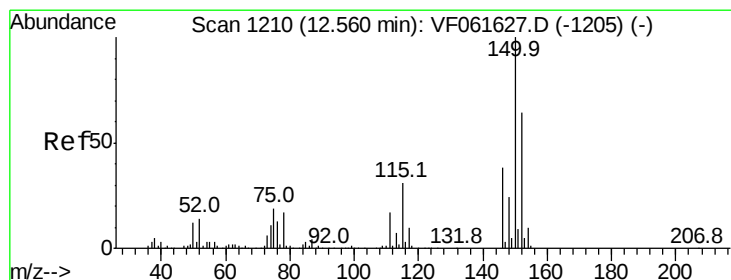
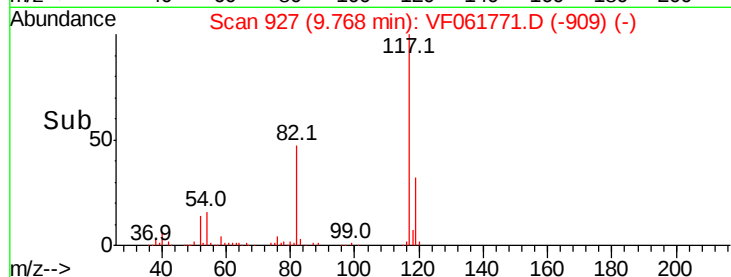
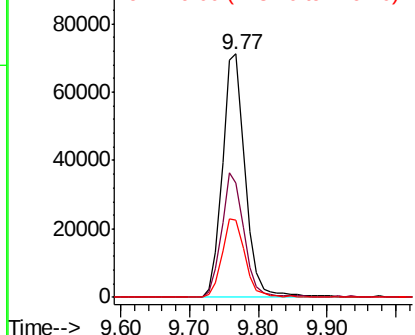
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 163725
Ion Ratio Lower Upper
117 100
82 46.8 39.3 58.9
119 31.7 26.6 40.0

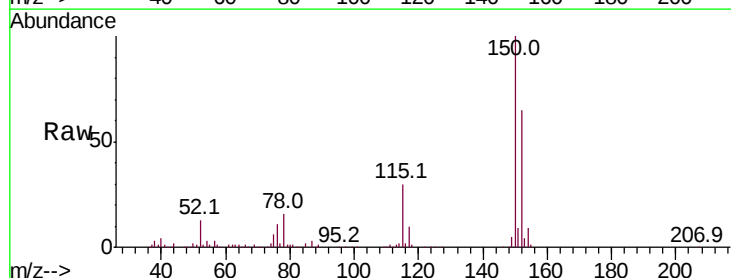


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

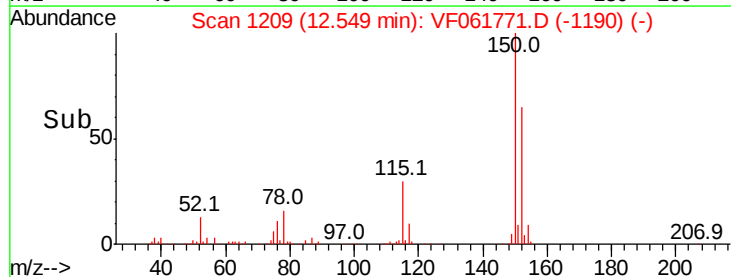
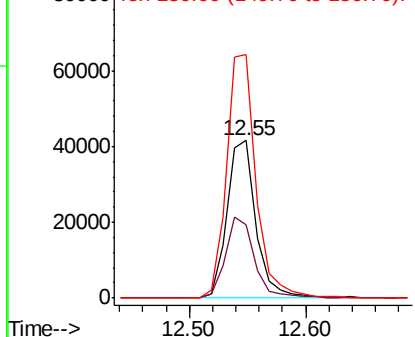


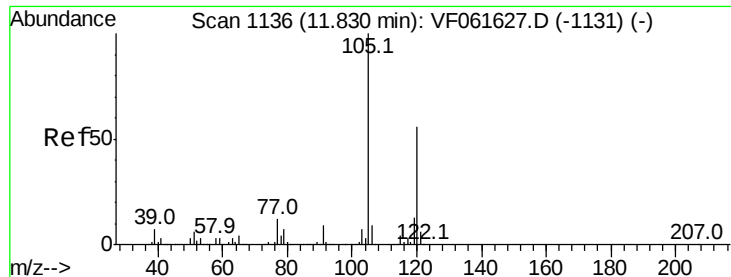
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061771.D
Acq: 27 Feb 2019 17:33

Tgt Ion:152 Resp: 71939
Ion Ratio Lower Upper
152 100
115 46.7 24.3 72.8
150 154.7 0.0 312.0



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

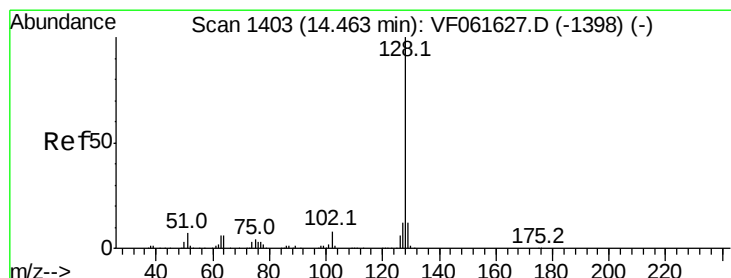
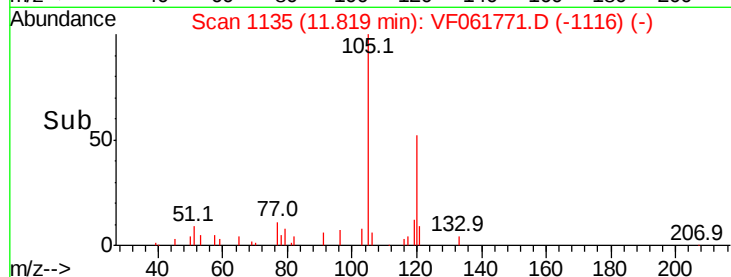
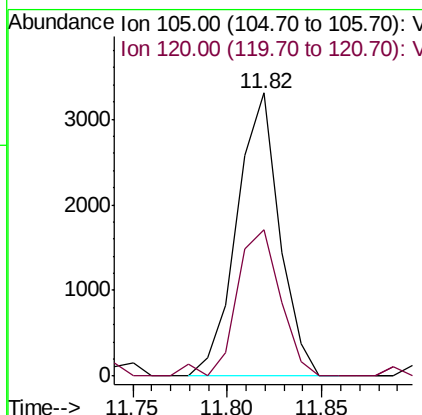
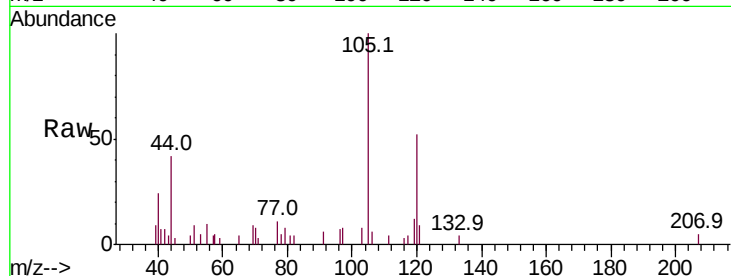




#80
 1,3,5-Trimethylbenzene
 Concen: 1.265 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VF061771.D
 Acq: 27 Feb 2019 17:33

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:105 Resp: 5178
 Ion Ratio Lower Upper
 105 100
 120 51.9 27.9 83.6



#95
 Naphthalene
 Concen: 1.871 ug/l
 RT: 14.45 min Scan# 1402
 Delta R.T. -0.01 min
 Lab File: VF061771.D
 Acq: 27 Feb 2019 17:33

Tgt Ion:128 Resp: 5505
 Ion Ratio Lower Upper
 128 100
 127 27.3 9.8 14.6#
 129 18.0 9.4 14.2#

