

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082918\
 Data File : VF060184.D
 Acq On : 29 Aug 2018 9:12
 Operator : VA/AP
 Sample : J4277-11
 Misc : 5.94g/5mL/MSVOA F/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 29 10:54:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 29 03:22:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	27048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	28664	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	12958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	3393	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	6364	37.67	ug/l	0.00
Spiked Amount			Recovery	=	75.34%	
35) Dibromofluoromethane	4.29	113	8354	45.30	ug/l	0.02
Spiked Amount			Recovery	=	90.60%	
50) Toluene-d8	7.71	98	14488	22.97	ug/l	0.00
Spiked Amount			Recovery	=	45.94%	
62) 4-Bromofluorobenzene	11.50	95	4423	19.01	ug/l	0.00
Spiked Amount			Recovery	=	38.02%	

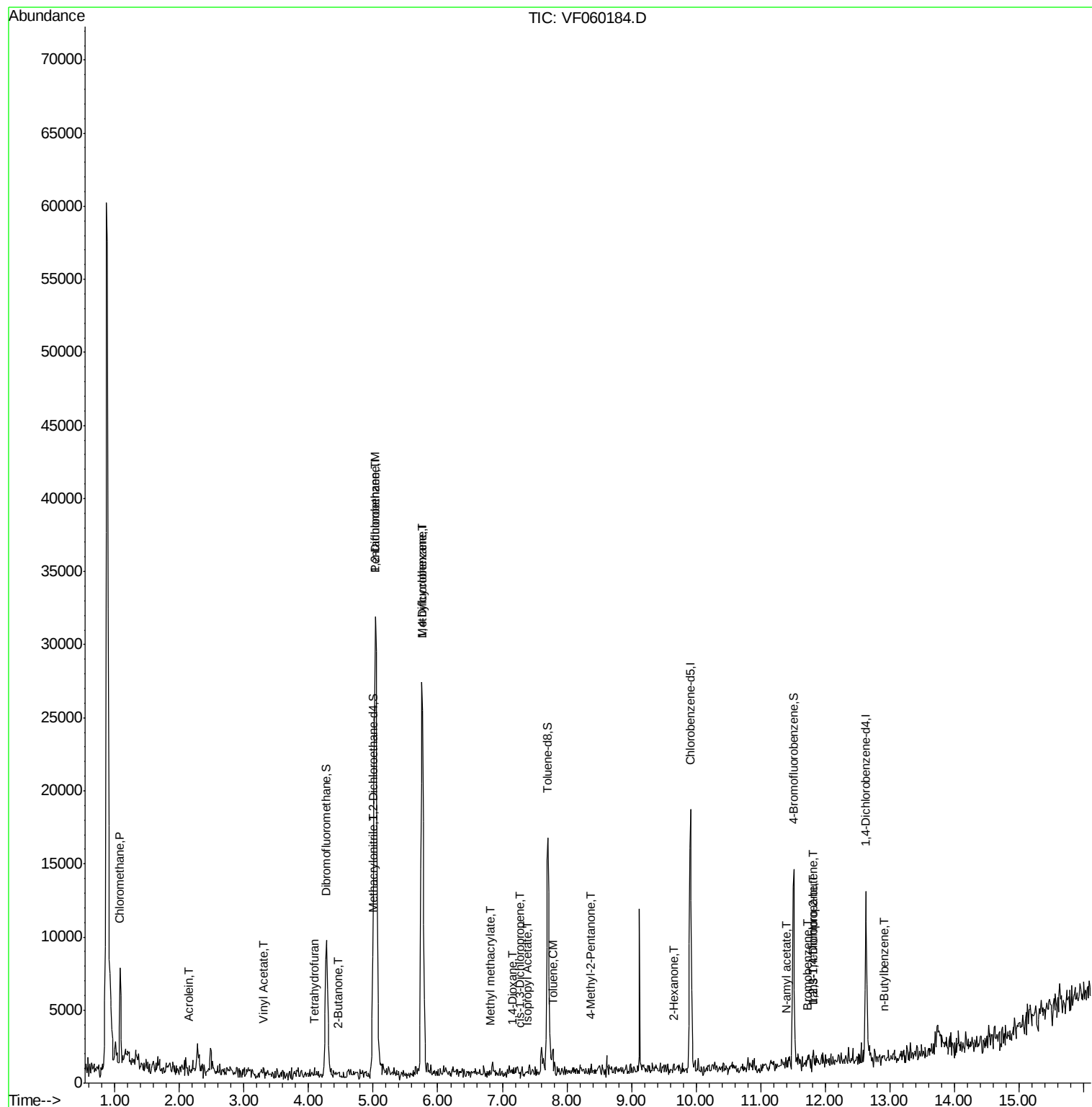
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.07	50	396	1.908	ug/l #	44
13) Acrolein	2.15	56	72	20.160	ug/l #	22
16) Acetone	2.31	43	89	Below Cal	#	67
18) Methyl Acetate	2.47	43	199	Below Cal	#	67
20) Methylene Chloride	2.28	84	415	Below Cal	#	59
23) Vinyl Acetate	3.30	43	90	27.246	ug/l #	82
25) 2-Butanone	4.44	43	198	9.950	ug/l #	44
29) Tetrahydrofuran	4.09	42	77	20.437	ug/l #	42
39) Methylcyclohexane	5.75	83	488	1.274	ug/l #	15
41) Methacrylonitrile	4.99	41	60	2.170	ug/l #	1
42) 1,2-Dichloroethane	5.03	62	237	1.222	ug/l #	1
43) Isopropyl Acetate	7.39	43	63	1.025	ug/l #	48
48) Methyl methacrylate	6.81	41	81	1.187	ug/l #	20
49) 1,4-Dioxane	7.15	88	110	399.306	ug/l #	19
51) 4-Methyl-2-Pentanone	8.39	43	82	1.527	ug/l #	36
52) Toluene	7.78	92	473	1.137	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	62	5.641	ug/l #	21
59) 2-Hexanone	9.64	43	65	1.725	ug/l #	36
74) N-amyl acetate	11.38	43	62	2.229	ug/l #	52
76) 1,2,3-Trichloropropane	11.81	75	60	2.807	ug/l #	50
77) Bromobenzene	11.73	156	81	1.497	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.81	75	60	13.291	ug/l #	24
89) n-Butylbenzene	12.91	91	87	3.889	ug/l #	55

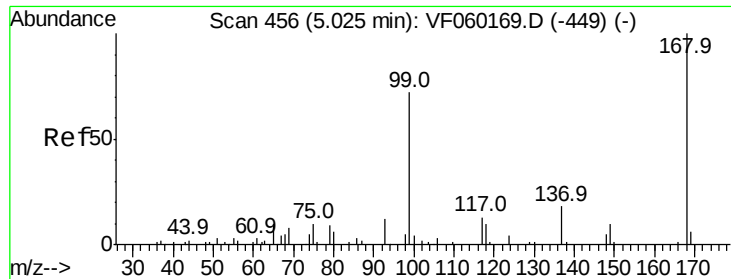
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 29 03:22:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

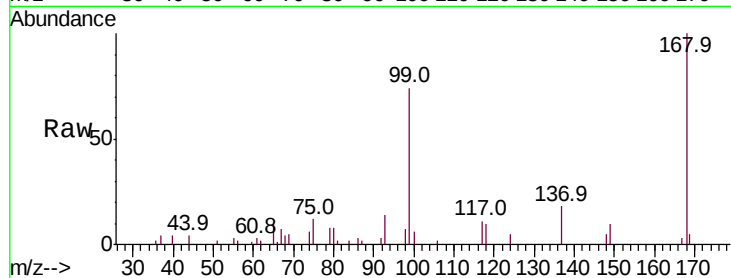
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 27048

Ion Ratio Lower Upper

168 100

99 73.8 57.9 86.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

8000

6000

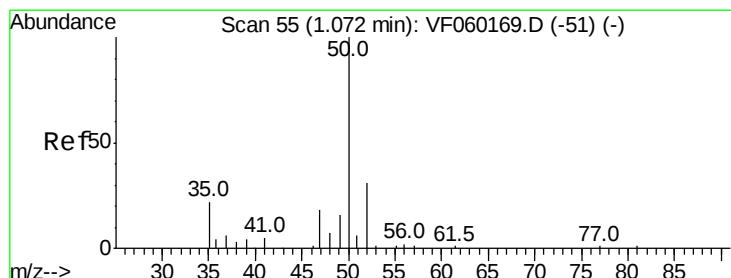
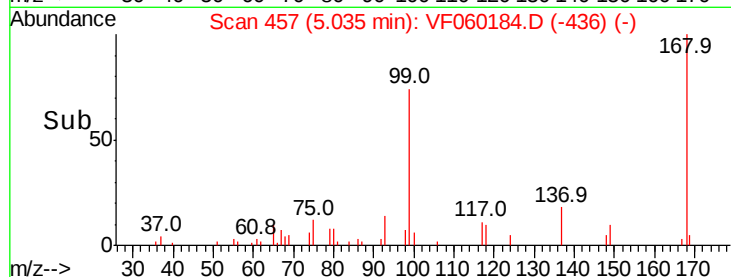
4000

2000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 1.908 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF060184.D

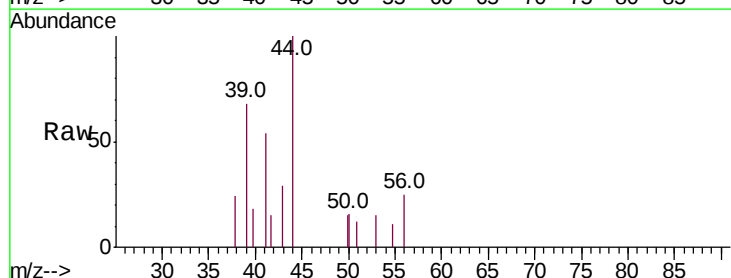
Acq: 29 Aug 2018 9:12

Tgt Ion: 50 Resp: 396

Ion Ratio Lower Upper

50 100

52 0.0 24.4 36.6#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.07

300

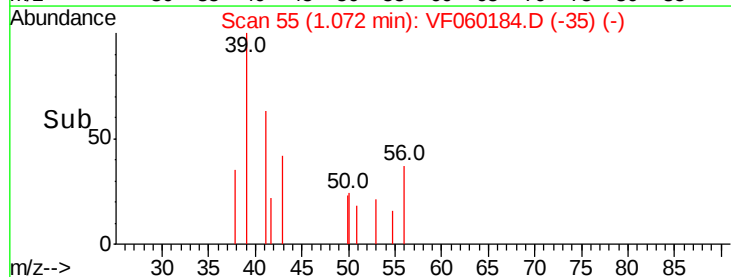
200

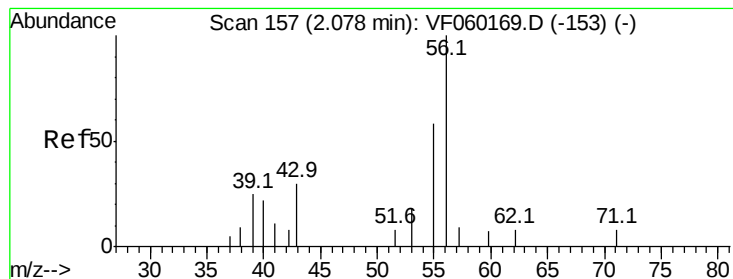
100

0

Time-->

1.05 1.10





#13

Acrolein

Concen: 20.160 ug/l

RT: 2.15 min Scan# 164

Delta R.T. 0.07 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

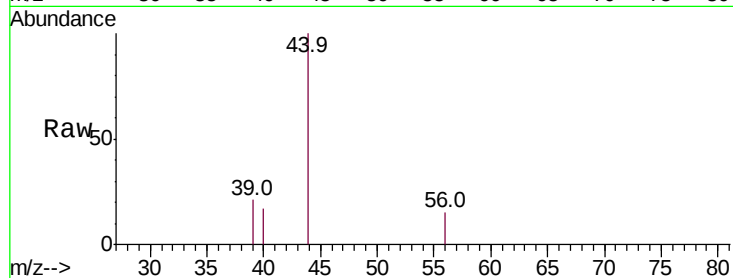
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

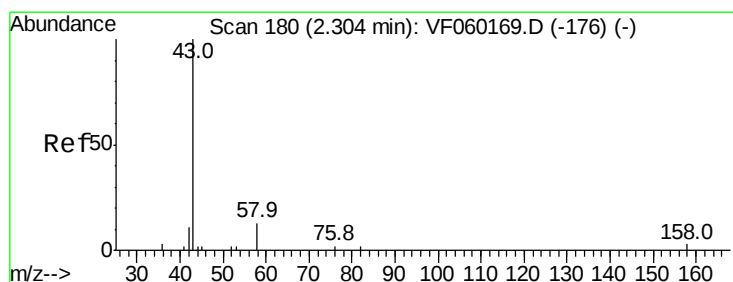
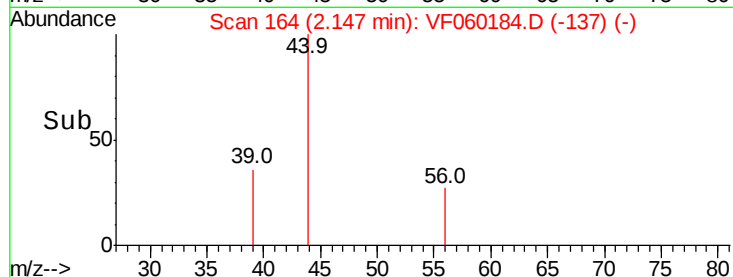
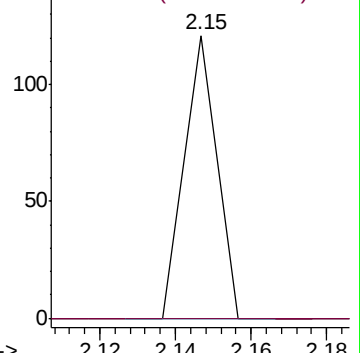
56 100

55 0.0 46.4 69.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: Below Cal

RT: 2.31 min Scan# 181

Delta R.T. 0.01 min

Lab File: VF060184.D

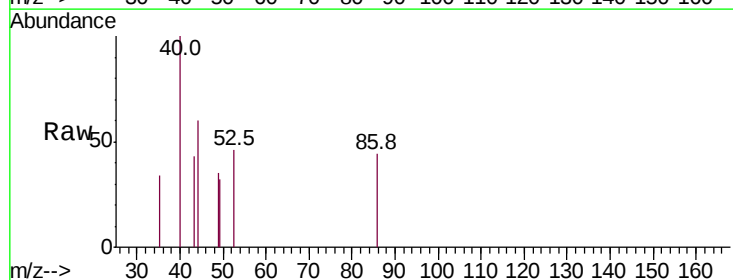
Acq: 29 Aug 2018 9:12

Tgt Ion: 43 Resp: 89

Ion Ratio Lower Upper

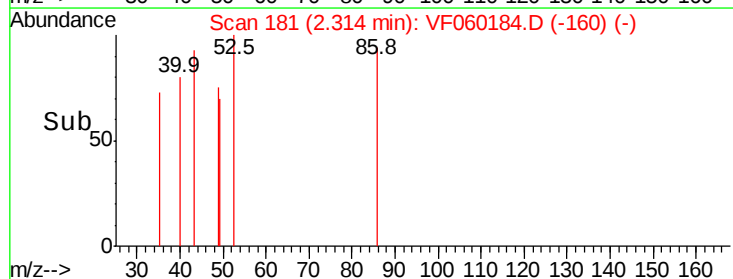
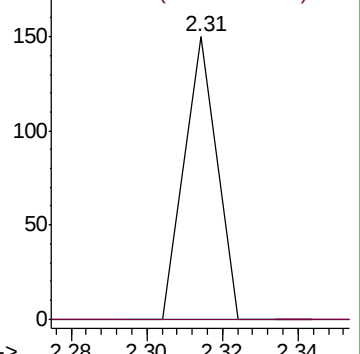
43 100

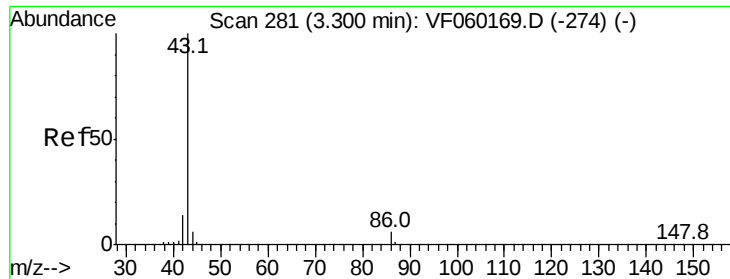
58 0.0 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#23

Vinyl Acetate

Concen: 27.246 ug/l

RT: 3.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

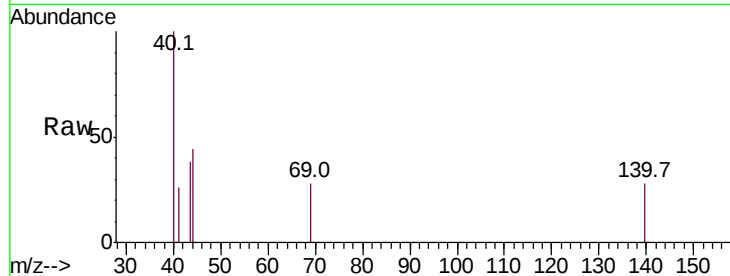
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 90

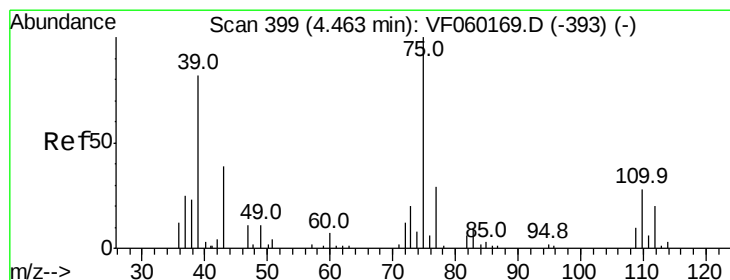
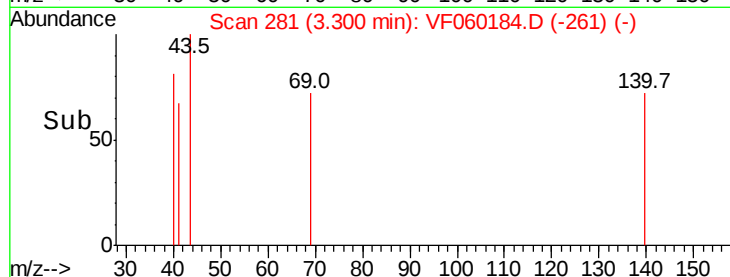
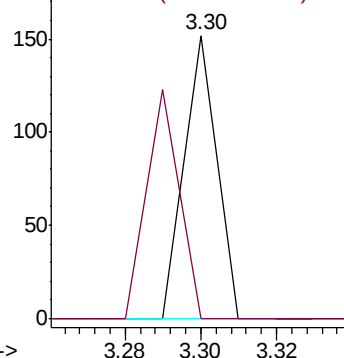
Ion Ratio Lower Upper

43 100

86 0.0 4.9 7.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 9.950 ug/l

RT: 4.44 min Scan# 397

Delta R.T. -0.02 min

Lab File: VF060184.D

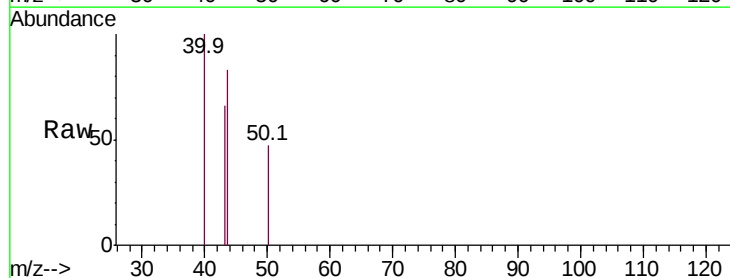
Acq: 29 Aug 2018 9:12

Tgt Ion: 43 Resp: 198

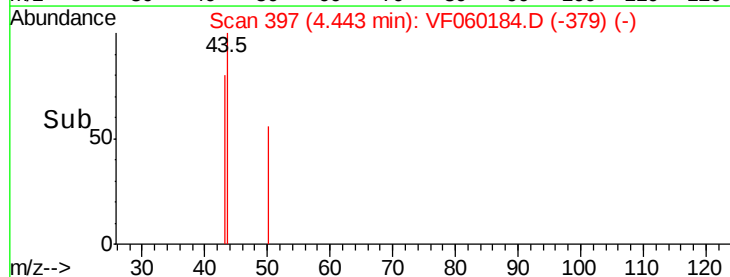
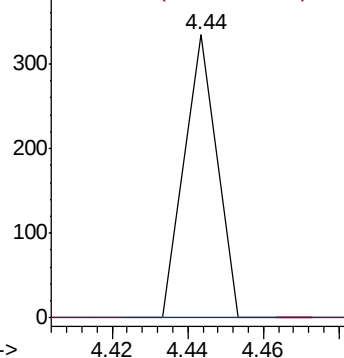
Ion Ratio Lower Upper

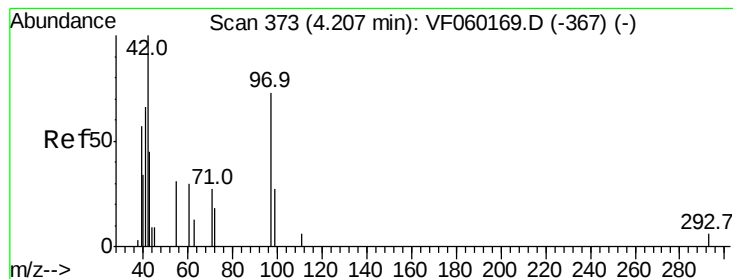
43 100

72 0.0 24.2 36.2#



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





#29

Tetrahydrofuran

Concen: 20.437 ug/l

RT: 4.09 min Scan# 361

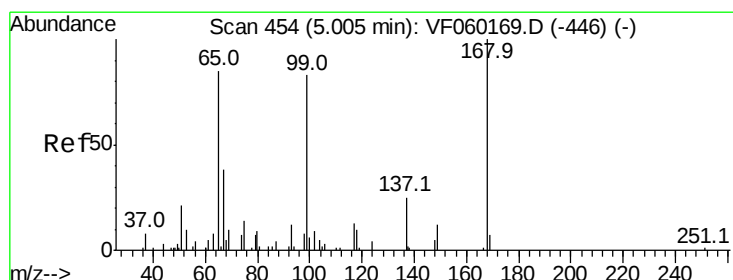
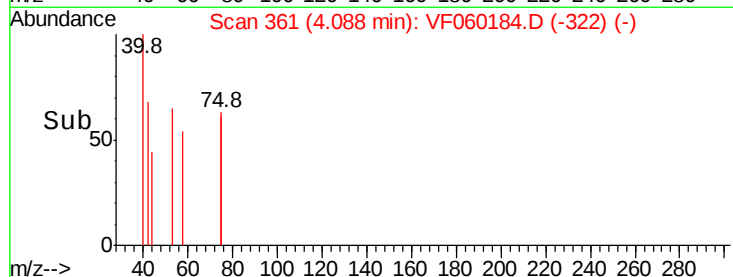
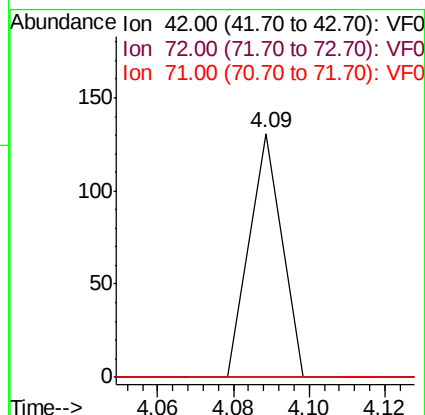
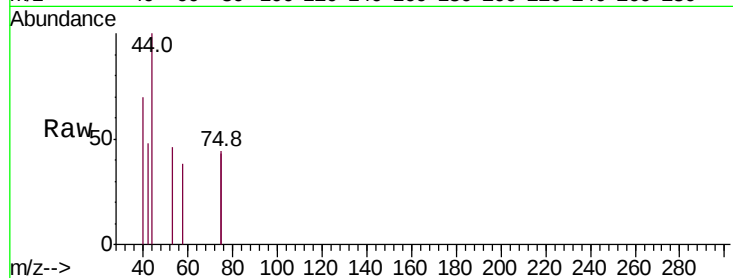
Delta R.T. -0.12 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	42	Resp:	77
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.0	40.4#
71	0.0	24.6	36.8#



#33

1,2-Dichloroethane-d4

Concen: 37.673 ug/l

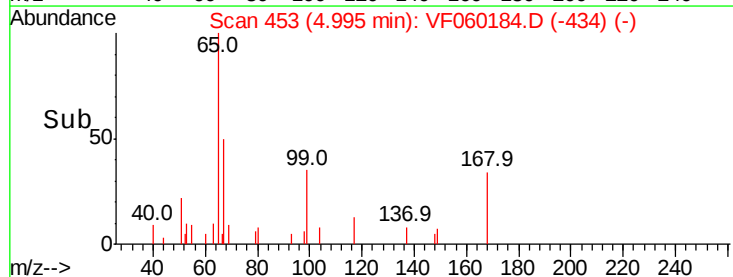
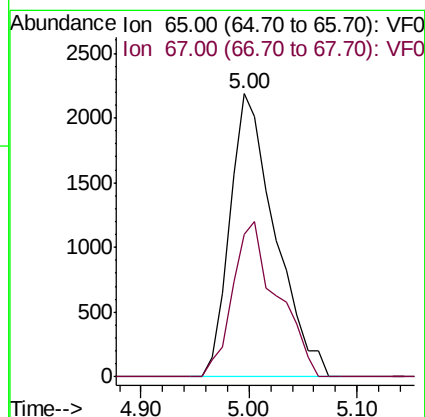
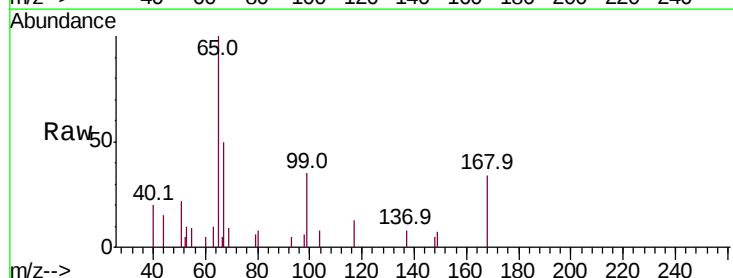
RT: 5.00 min Scan# 453

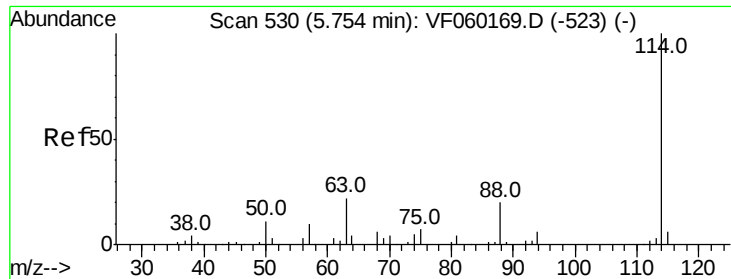
Delta R.T. -0.01 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Tgt Ion:	65	Resp:	6364
Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	92.6

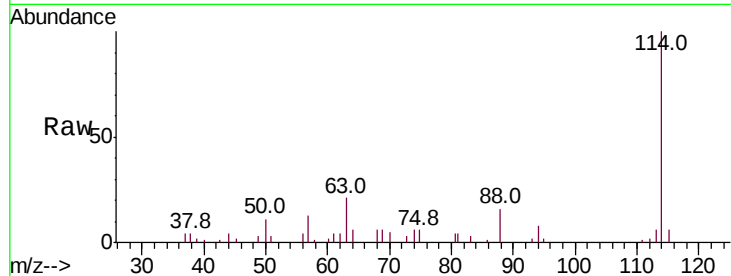




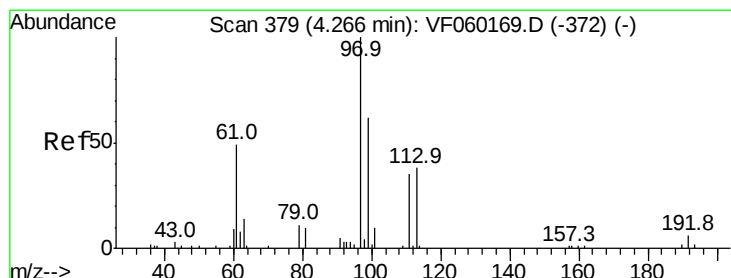
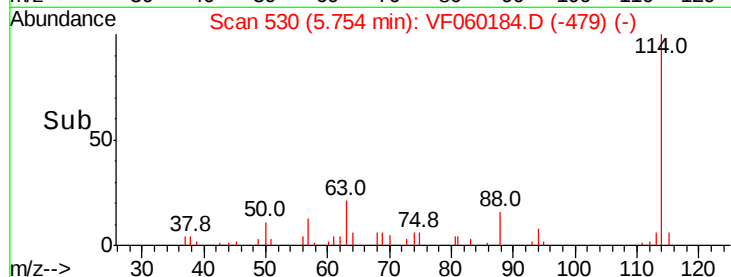
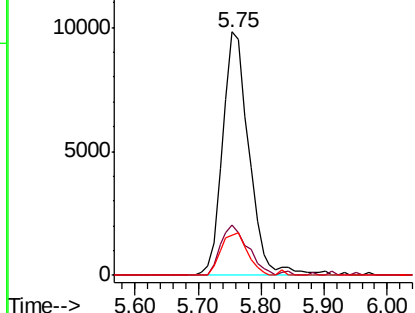
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VF060184.D
 Acq: 29 Aug 2018 9:12

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:114 Resp: 28664
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 45.8
 88 16.5 0.0 40.2

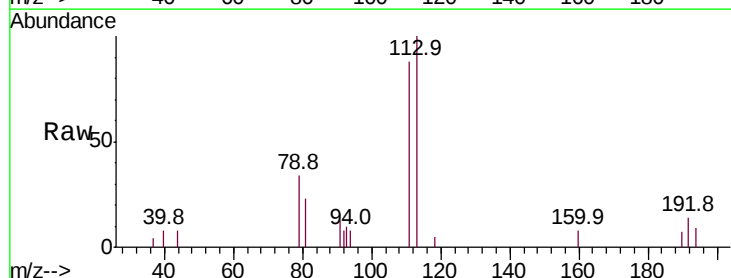


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

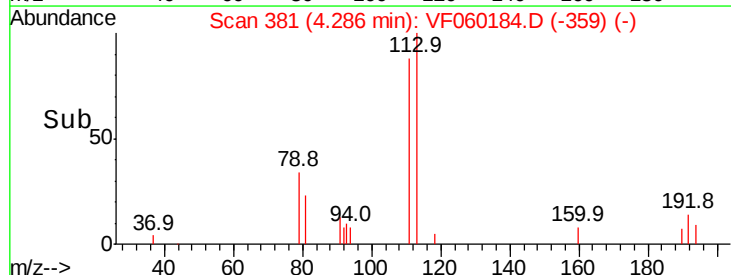
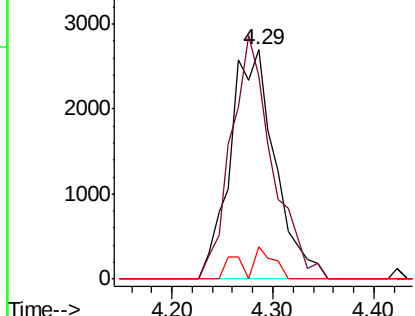


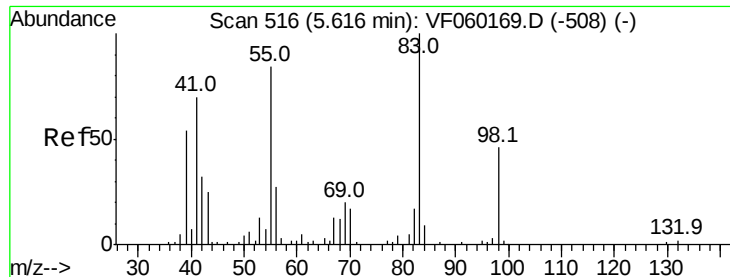
#35
 Dibromofluoromethane
 Concen: 45.304 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.02 min
 Lab File: VF060184.D
 Acq: 29 Aug 2018 9:12

Tgt Ion:113 Resp: 8354
 Ion Ratio Lower Upper
 113 100
 111 88.4 75.5 113.3
 192 14.1 12.5 18.7



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

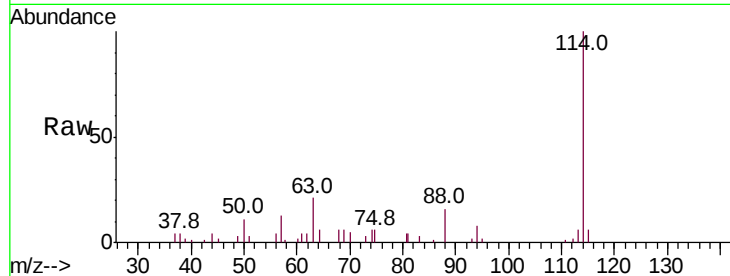




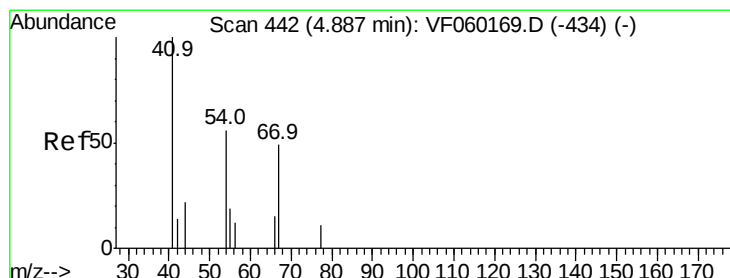
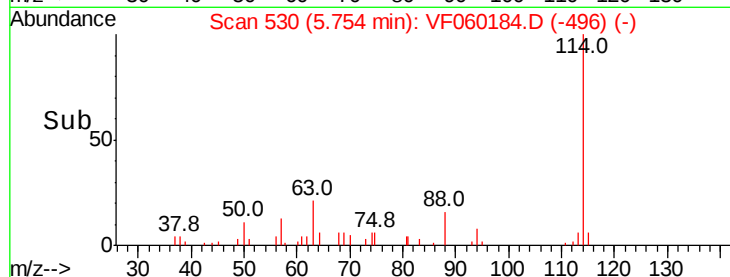
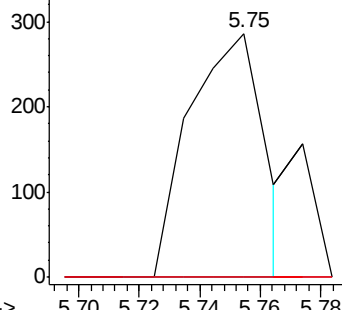
#39
Methylcyclohexane
Concen: 1.274 ug/l
RT: 5.75 min Scan# 530
Delta R.T. 0.14 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 83 Resp: 488
Ion Ratio Lower Upper
83 100
55 0.0 67.4 101.2#
98 0.0 37.0 55.6#

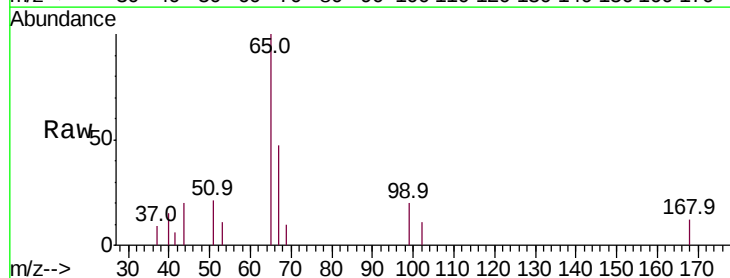


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

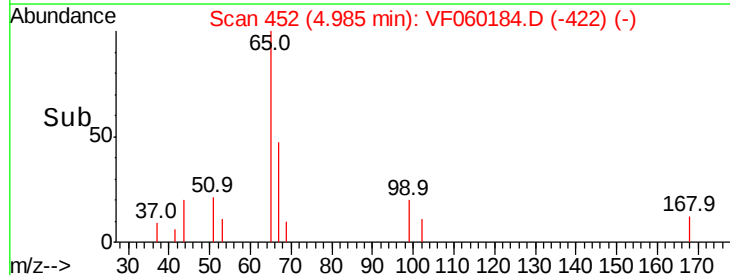
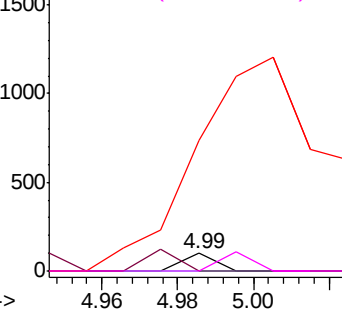


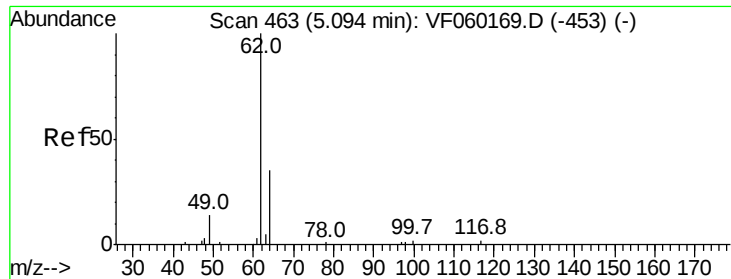
#41
Methacrylonitrile
Concen: 2.170 ug/l
RT: 4.99 min Scan# 452
Delta R.T. 0.10 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

Tgt Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
39 0.0 45.0 67.6#
67 729.7 39.5 59.3#
52 0.0 28.5 42.7#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0





#42

1,2-Dichloroethane

Concen: 1.222 ug/l

RT: 5.03 min Scan# 457

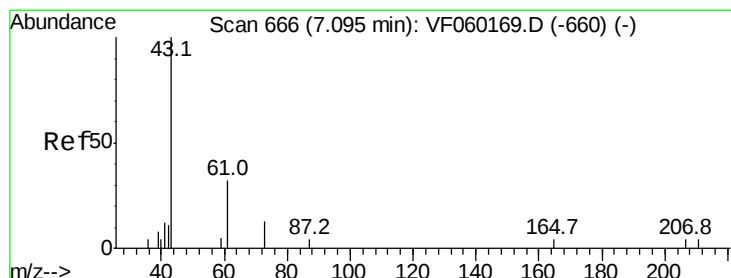
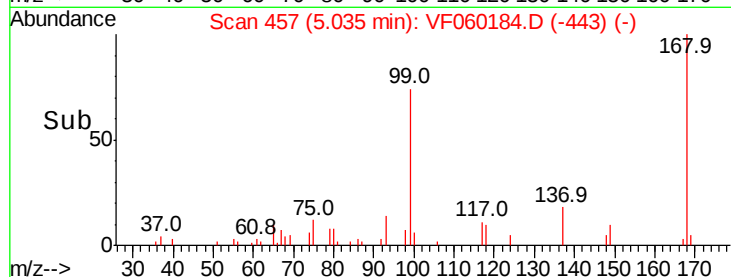
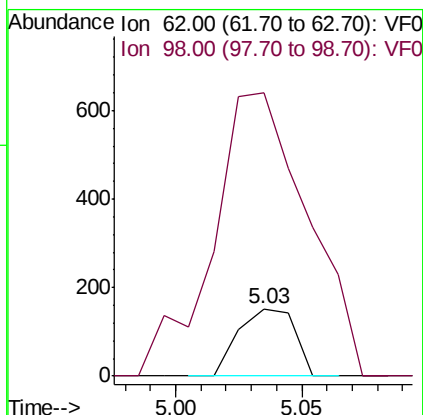
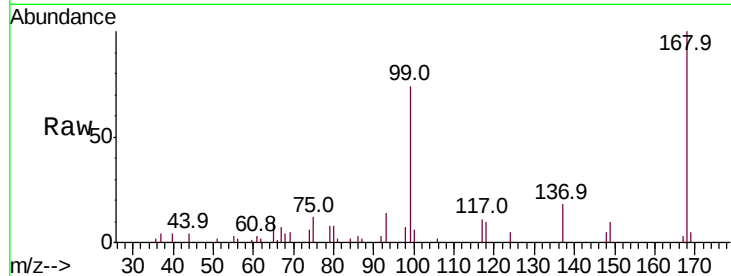
Delta R.T. -0.06 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 62 Resp: 237
Ion Ratio Lower Upper
62 100
98 420.4 0.0 13.2#



#43

Isopropyl Acetate

Concen: 1.025 ug/l

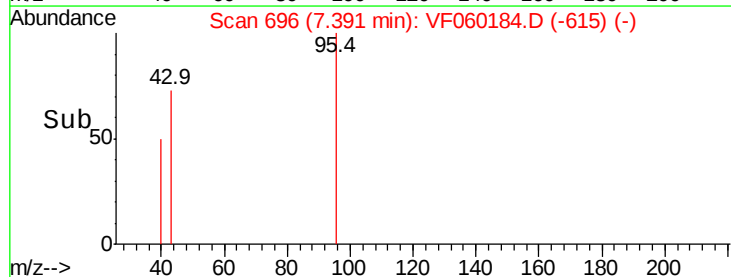
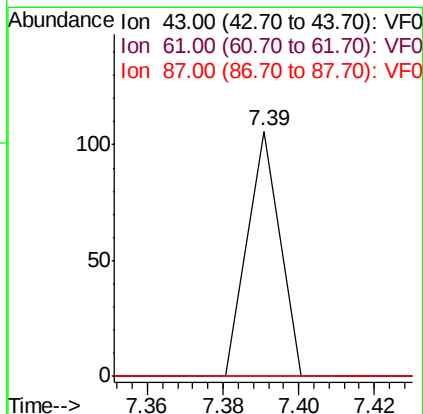
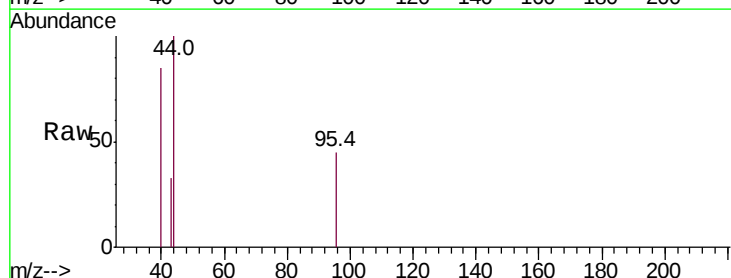
RT: 7.39 min Scan# 696

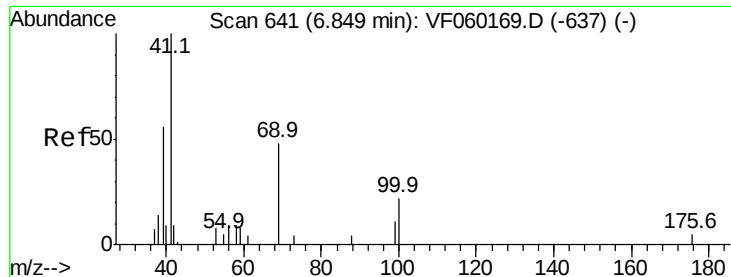
Delta R.T. 0.30 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Tgt Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
61 0.0 25.3 37.9#
87 0.0 3.0 4.6#

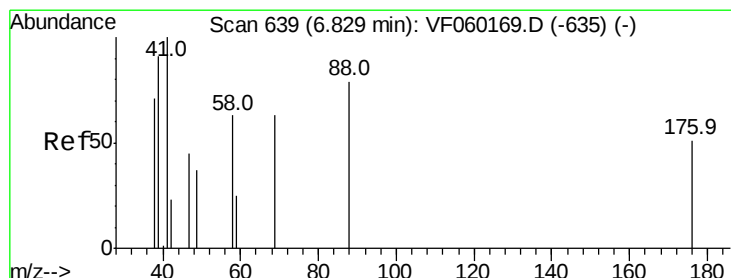
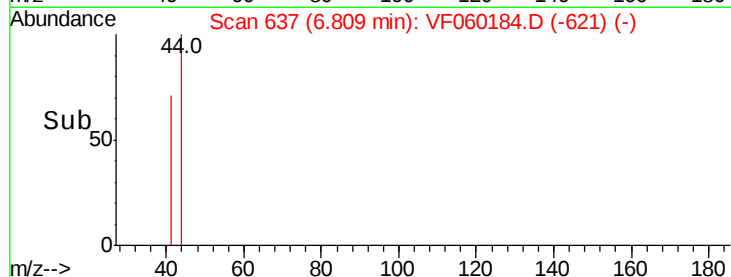
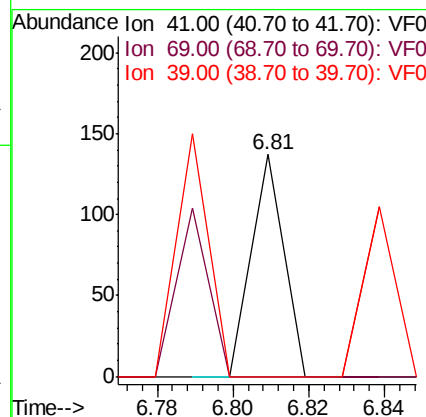
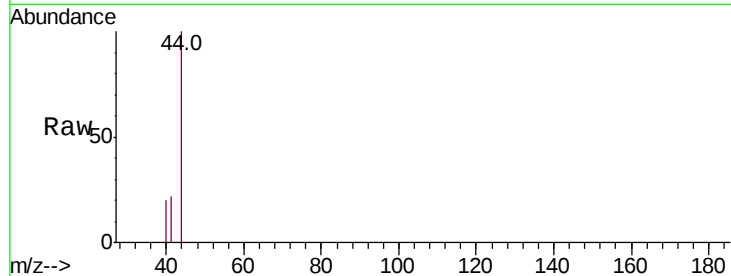




#48
Methvl methacrylate
Concen: 1.187 ug/l
RT: 6.81 min Scan# 637
Delta R.T. -0.04 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

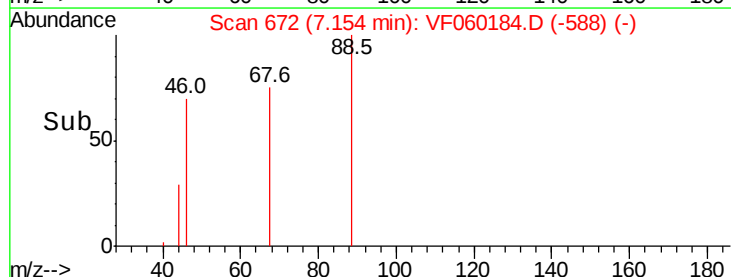
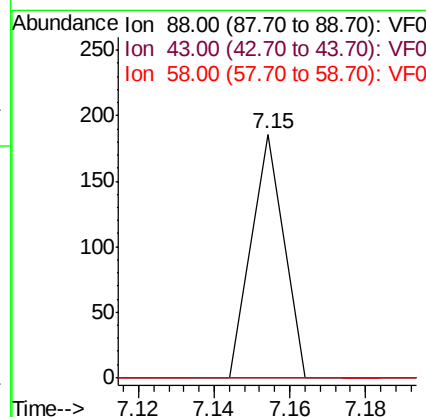
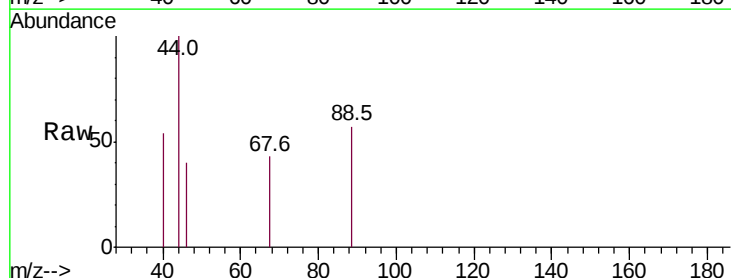
Instrument :
MSVOA_F
ClientSampled :

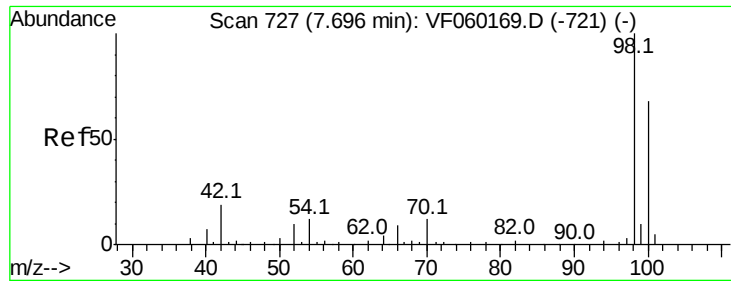
Tot Ion: 41 Resp: 81
Ion Ratio Lower Upper
41 100
69 0.0 38.2 57.2#
39 0.0 56.2 84.2#



#49
1,4-Dioxane
Concen: 399.306 ug/l
RT: 7.15 min Scan# 672
Delta R.T. 0.33 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

Tgt Ion: 88 Resp: 110
Ion Ratio Lower Upper
88 100
43 0.0 24.5 36.7#
58 0.0 63.8 95.8#

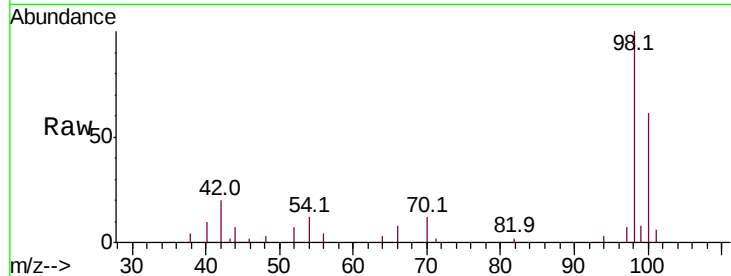




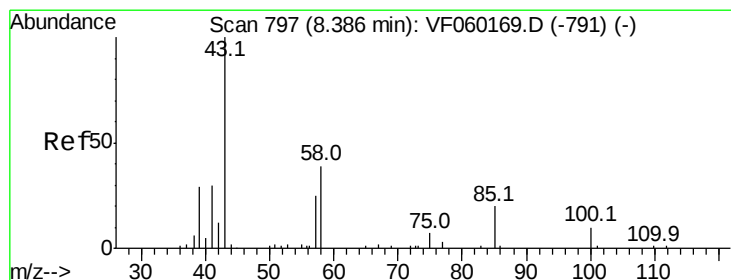
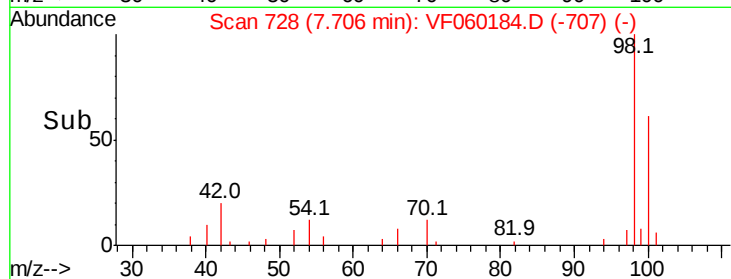
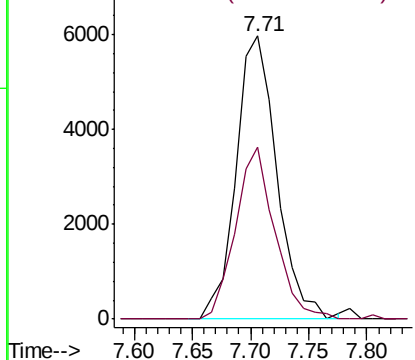
#50
Toluene-d8
Concen: 22.968 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.01 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 14488
Ion Ratio Lower Upper
98 100
100 60.9 54.5 81.7

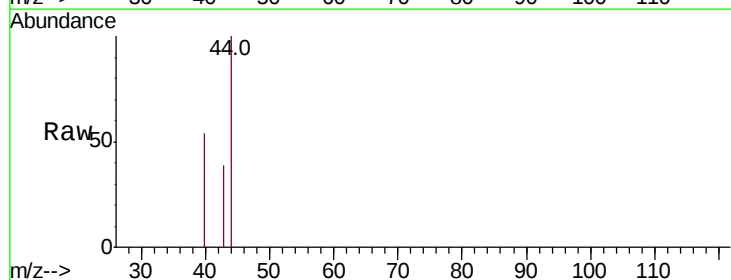


Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF

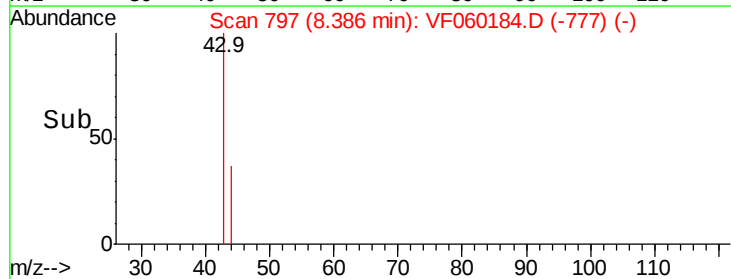
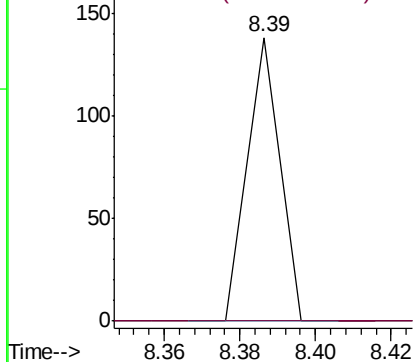


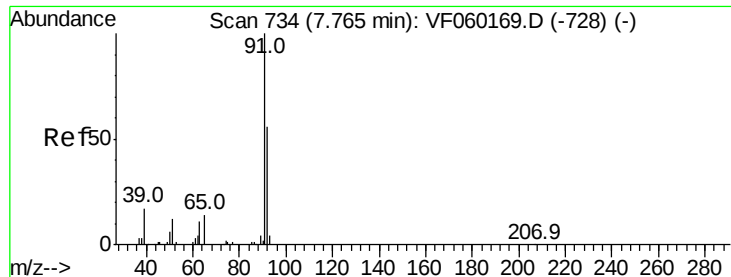
#51
4-Methyl-2-Pentanone
Concen: 1.527 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.00 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

Tgt Ion: 43 Resp: 82
Ion Ratio Lower Upper
43 100
58 0.0 31.0 46.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 1.137 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :

MSVOA_F

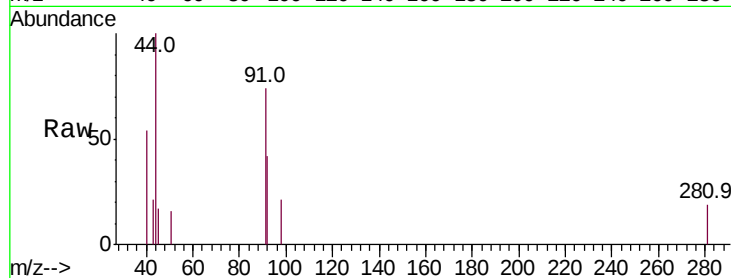
ClientSampled :

Tot Ion: 92 Resp: 473

Ion Ratio Lower Upper

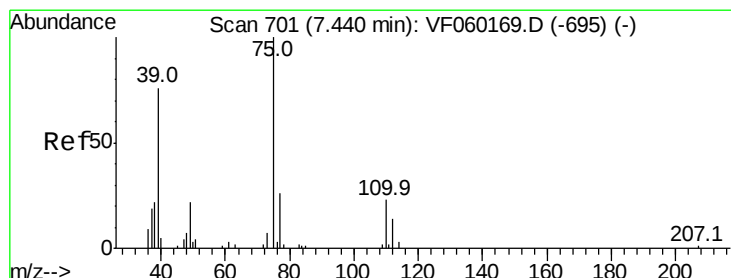
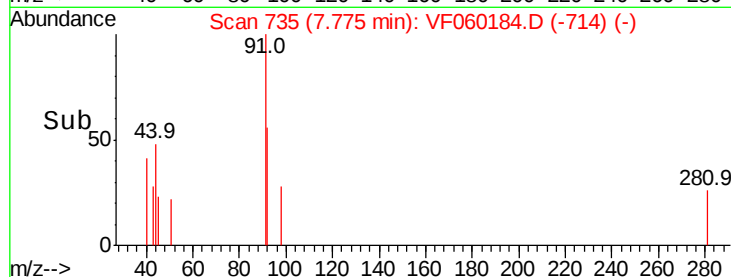
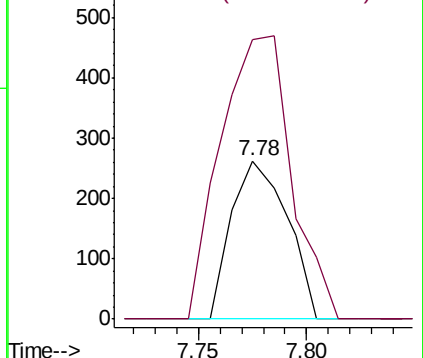
92 100

91 177.1 141.9 212.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 5.641 ug/l

RT: 7.27 min Scan# 684

Delta R.T. -0.17 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

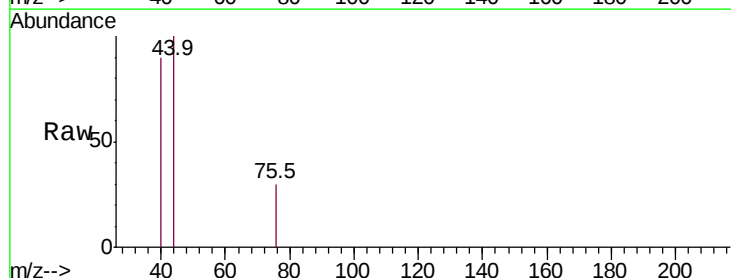
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 20.7 31.1#

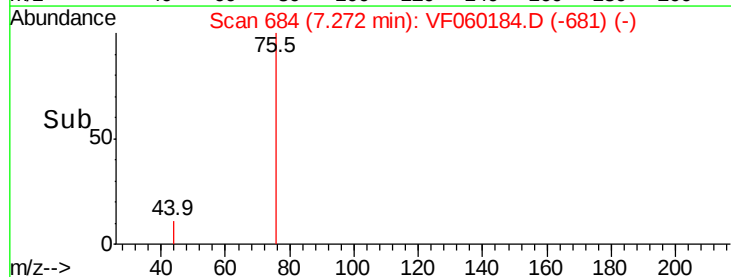
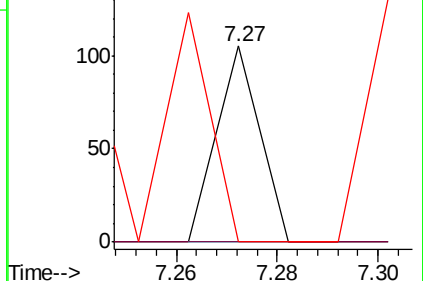
39 0.0 60.9 91.3#

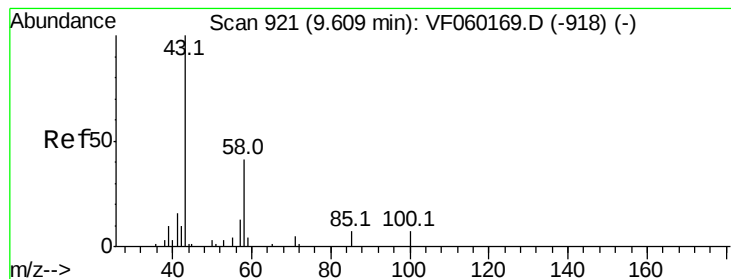


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#59

2-Hexanone

Concen: 1.725 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.03 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

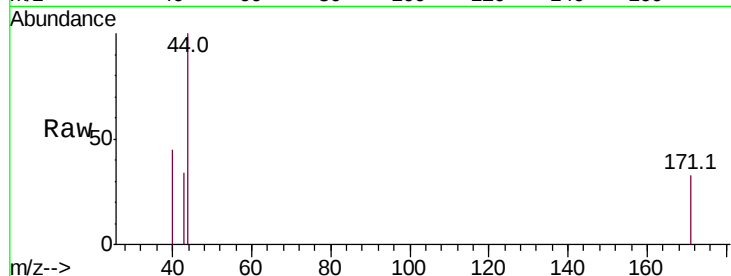
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 65

Ion Ratio Lower Upper

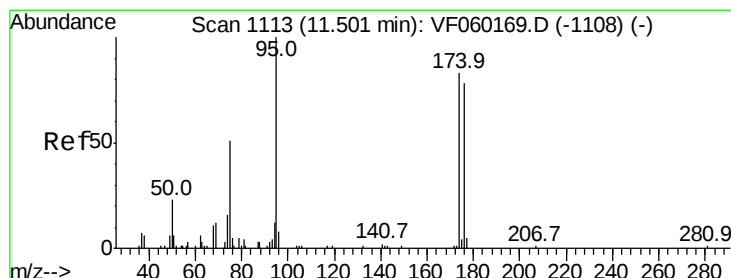
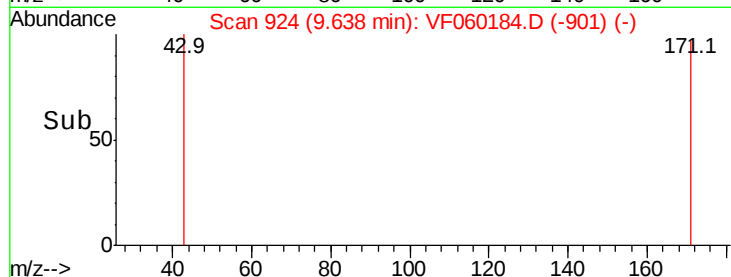
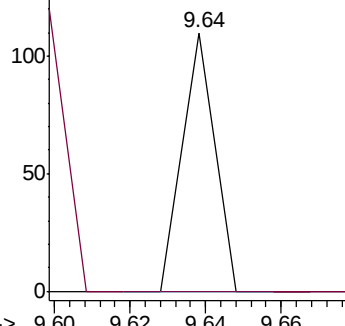
43 100

58 0.0 19.4 58.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 19.014 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

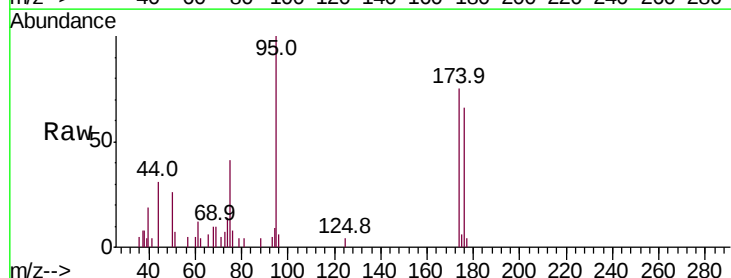
Tgt Ion: 95 Resp: 4423

Ion Ratio Lower Upper

95 100

174 75.5 0.0 165.2

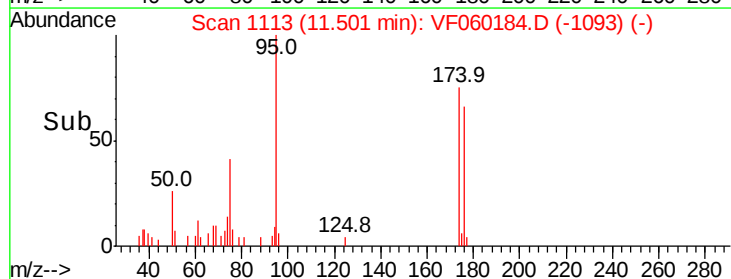
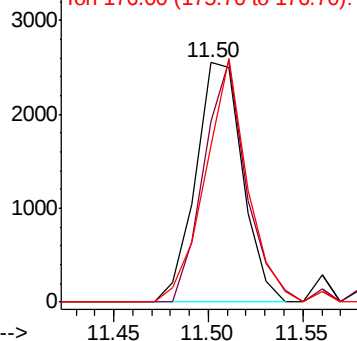
176 65.6 0.0 156.6

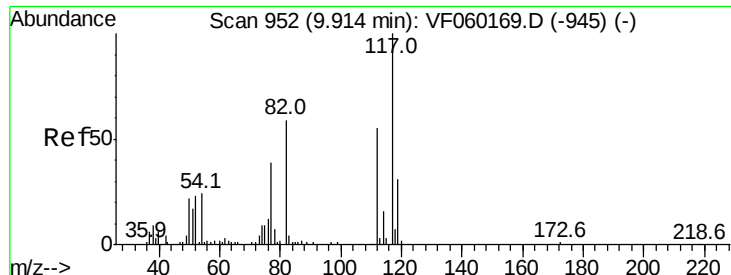


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

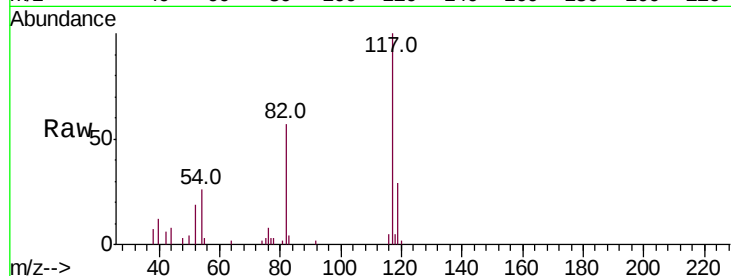




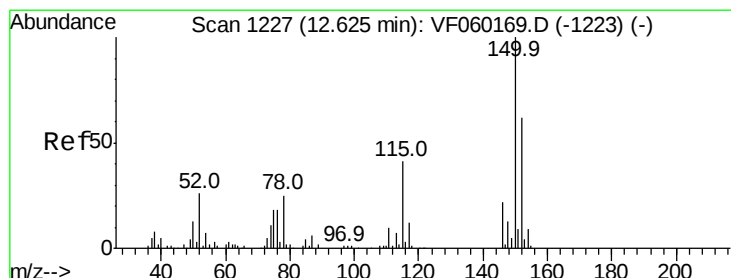
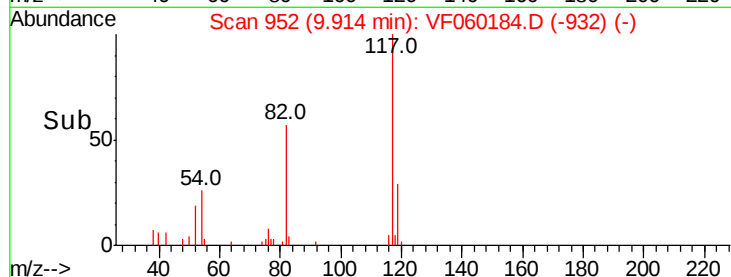
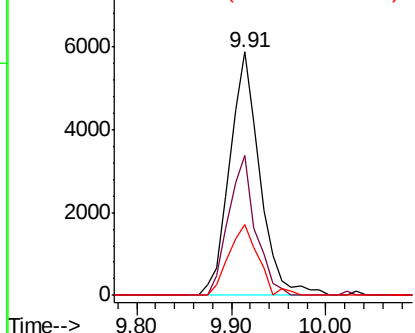
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 12958
Ion Ratio Lower Upper
117 100
82 57.3 47.2 70.8
119 28.8 25.0 37.4

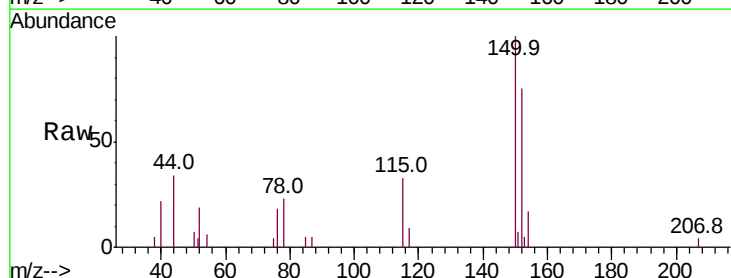


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

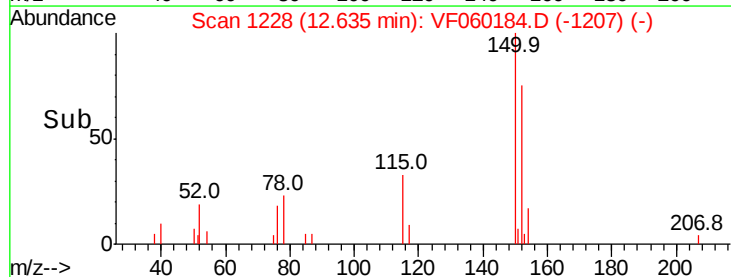
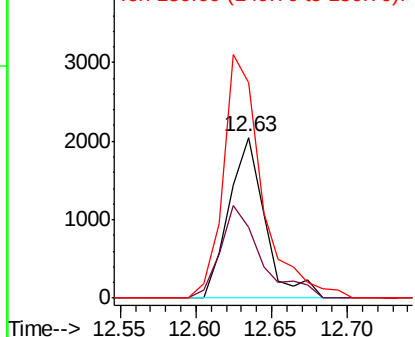


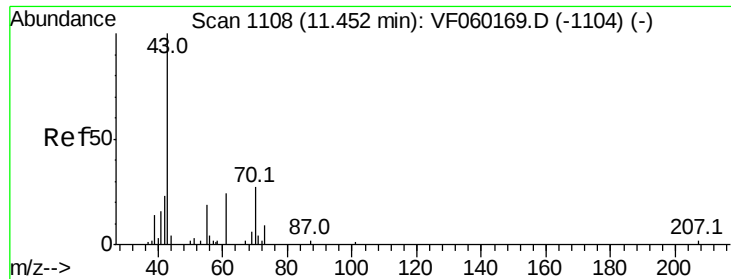
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. 0.01 min
Lab File: VF060184.D
Acq: 29 Aug 2018 9:12

Tgt Ion:152 Resp: 3393
Ion Ratio Lower Upper
152 100
115 43.9 33.2 99.6
150 134.1 0.0 325.6



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





#74

N-amvl acetate

Concen: 2.229 ug/l

RT: 11.38 min Scan# 1101

Delta R.T. -0.07 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 62

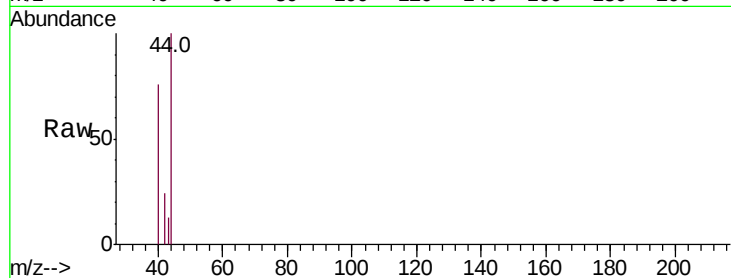
Ion Ratio Lower Upper

43 100

70 0.0 22.0 33.0#

55 0.0 15.2 22.8#

61 0.0 19.2 28.8#

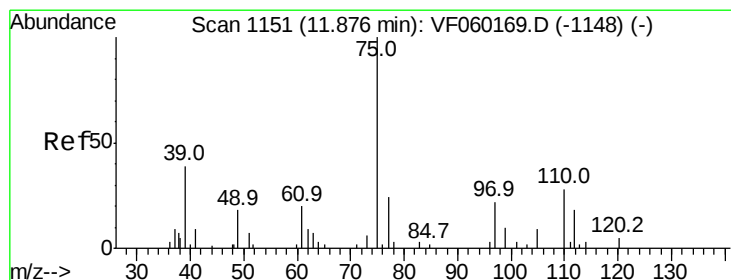
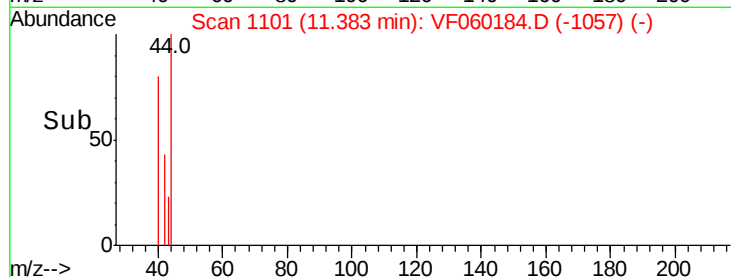
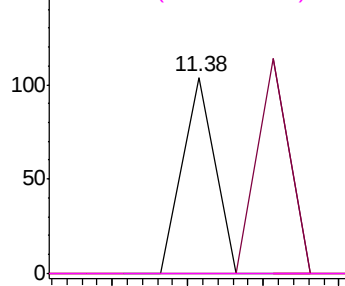


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#76

1,2,3-Trichloropropane

Concen: 2.807 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.07 min

Lab File: VF060184.D

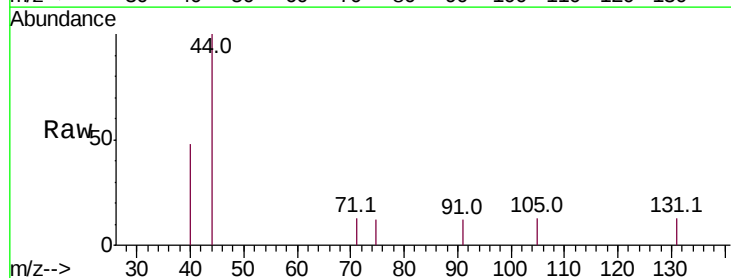
Acq: 29 Aug 2018 9:12

Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

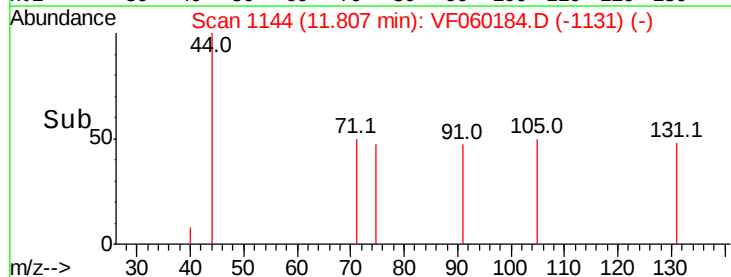
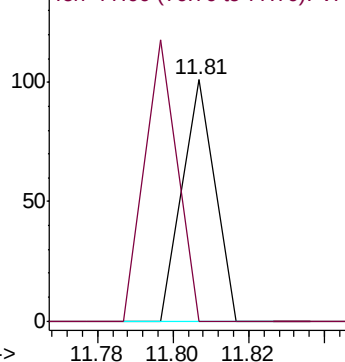
75 100

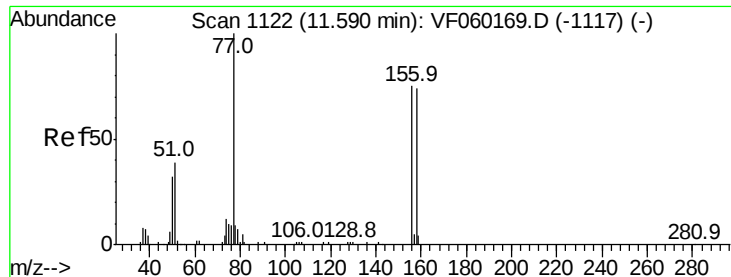
77 0.0 12.8 38.3#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 1.497 ug/l

RT: 11.73 min Scan# 1136

Delta R.T. 0.14 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :

MSVOA_F

ClientSampleId :

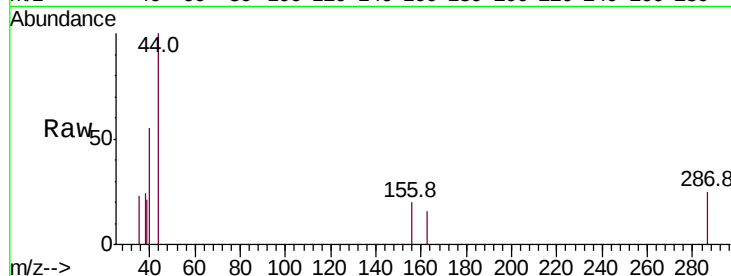
Tot Ion:156 Resp: 81

Ion Ratio Lower Upper

156 100

77 0.0 66.8 200.6#

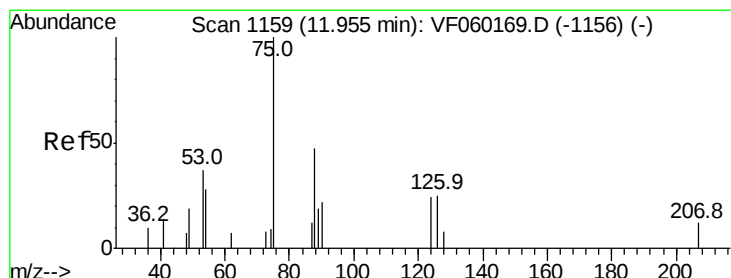
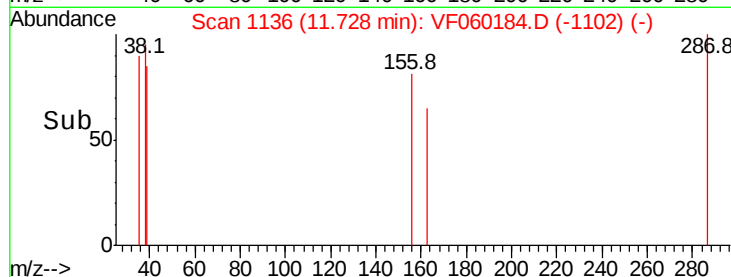
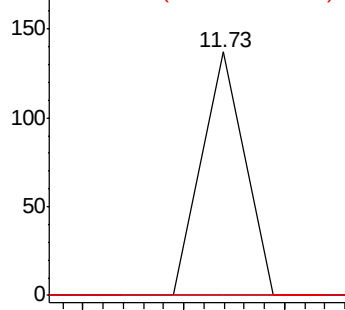
158 0.0 49.7 149.1#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 13.291 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.15 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

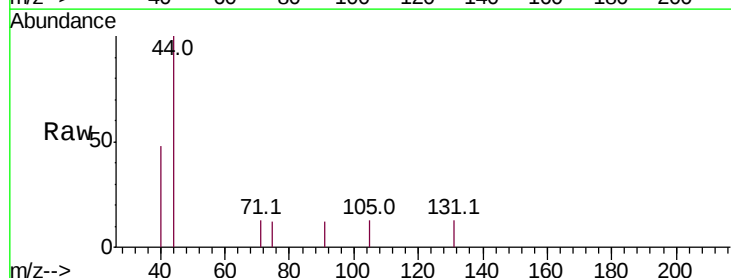
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

53 0.0 53.4 80.0#

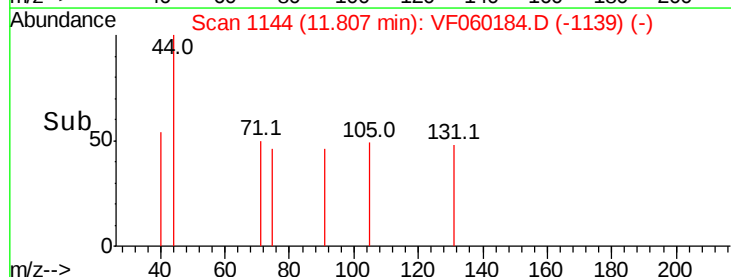
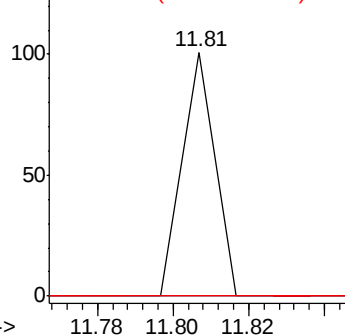
89 0.0 28.9 43.3#

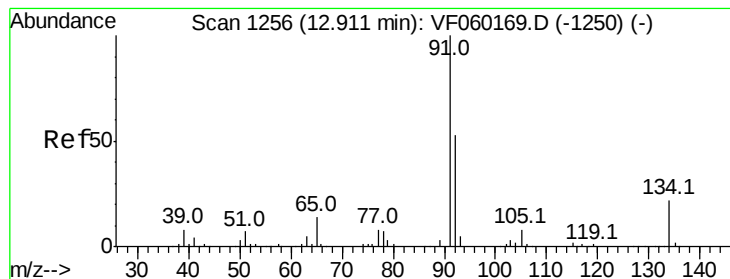


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#89

n-Butylbenzene

Concen: 3.889 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :

MSVOA_F

ClientSampleId :

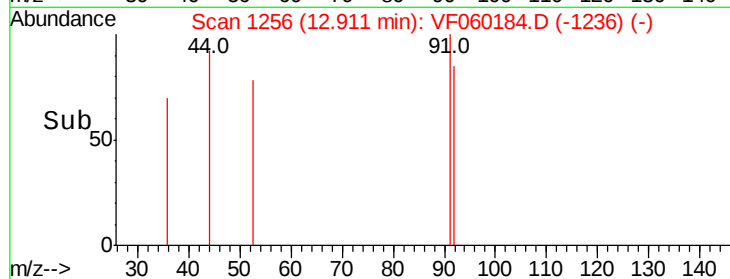
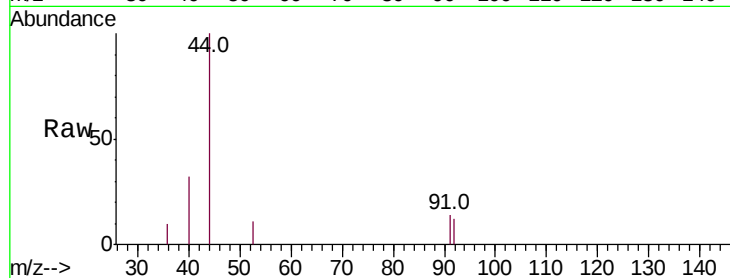
Tot Ion: 91 Resp: 87

Ion Ratio Lower Upper

91 100

92 85.0 26.7 80.0#

134 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

200 Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

150

100

50

0

12.88 12.90 12.92 12.94

