

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061510.D
 Acq On : 24 Jan 2019 19:59
 Operator : VA/AP
 Sample : K1223-07RE
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-SRE

Quant Time: Jan 25 04:10:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

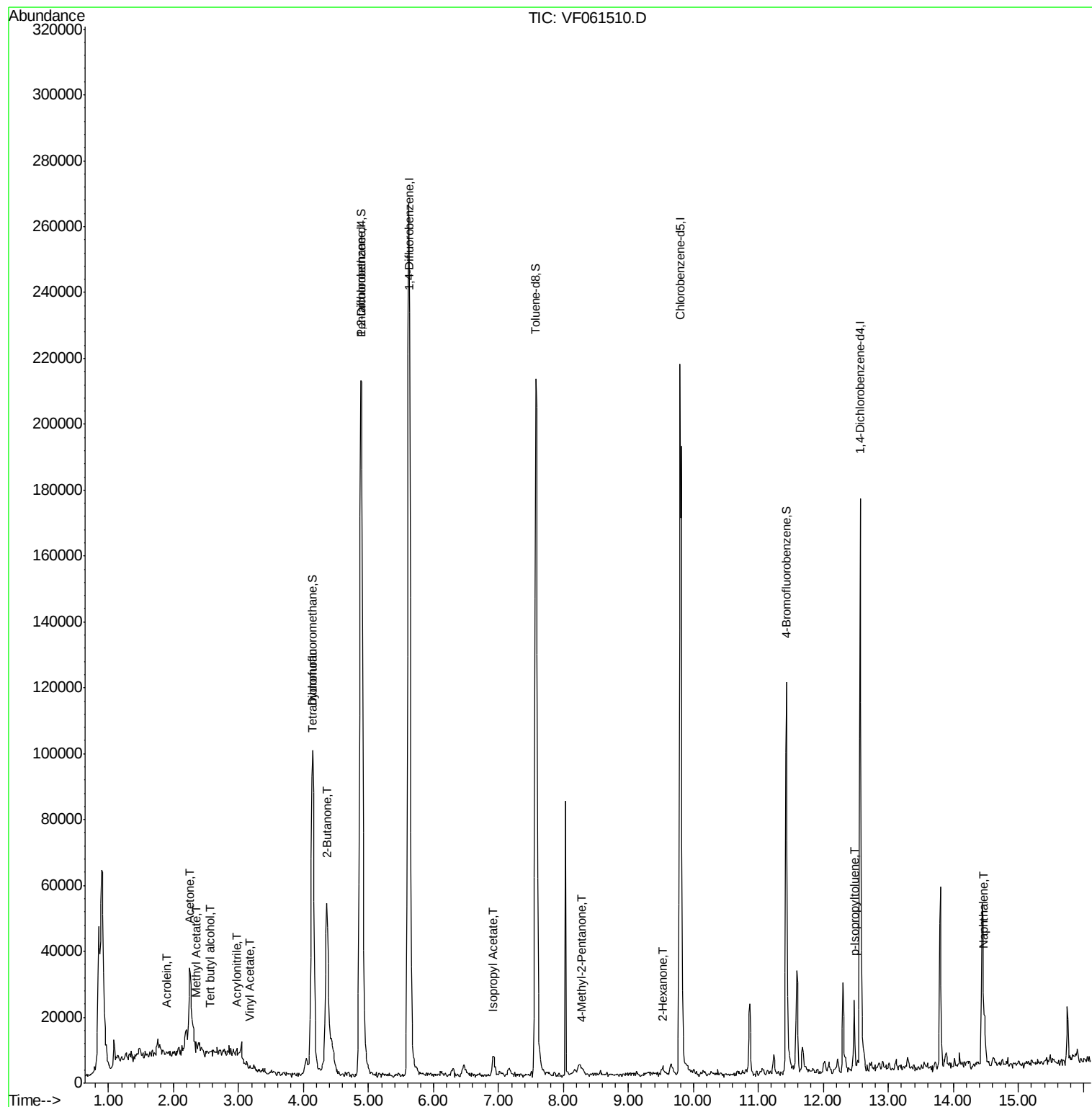
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	158429	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.62	114	297309	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.79	117	176454	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	41616	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	84562	43.23	ug/l	0.04
Spiked Amount	50.000		Recovery	=	86.46%	
35) Dibromofluoromethane	4.14	113	93855	40.01	ug/l	0.04
Spiked Amount	50.000		Recovery	=	80.02%	
50) Toluene-d8	7.57	98	185337	28.83	ug/l	0.03
Spiked Amount	50.000		Recovery	=	57.66%	
62) 4-Bromofluorobenzene	11.43	95	49018	16.32	ug/l	0.03
Spiked Amount	50.000		Recovery	=	32.64%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.57	59	146	1.763	ug/l #	64
13) Acrolein	1.90	56	518	17.300	ug/l	96
14) Allyl chloride	2.13	41	634	Below Cal	#	83
15) Acrylonitrile	2.96	53	346	1.631	ug/l #	37
16) Acetone	2.25	43	41698	106.264	ug/l	98
18) Methyl Acetate	2.36	43	2064	2.652	ug/l #	79
23) Vinyl Acetate	3.18	43	885	3.590	ug/l #	78
25) 2-Butanone	4.36	43	108575	166.388	ug/l	98
29) Tetrahydrofuran	4.12	42	668	2.377	ug/l #	46
43) Isopropyl Acetate	6.92	43	11917	6.891	ug/l #	51
51) 4-Methyl-2-Pentanone	8.28	43	2372	1.866	ug/l	93
59) 2-Hexanone	9.52	43	3029	3.417	ug/l	75
86) p-Isopropyltoluene	12.48	119	10045	3.187	ug/l	98
95) Naphthalene	14.47	128	2649	1.488	ug/l #	89

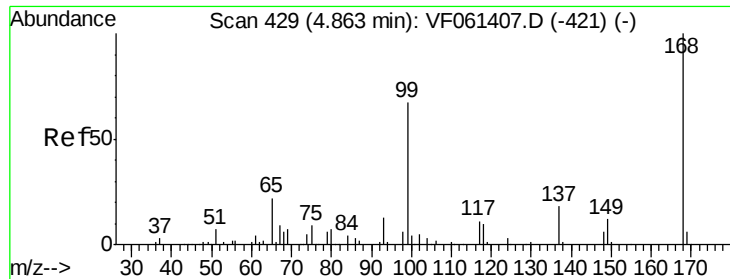
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.04 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampleId :

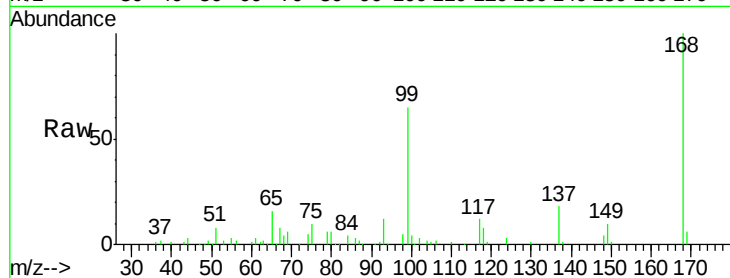
TS-SRE

Tot Ion:168 Resp: 158429

Ion Ratio Lower Upper

168 100

99 65.5 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

50000

40000

30000

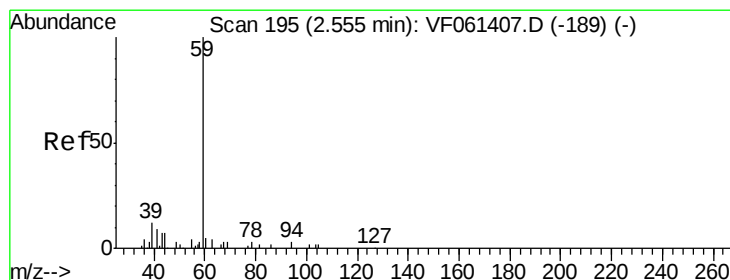
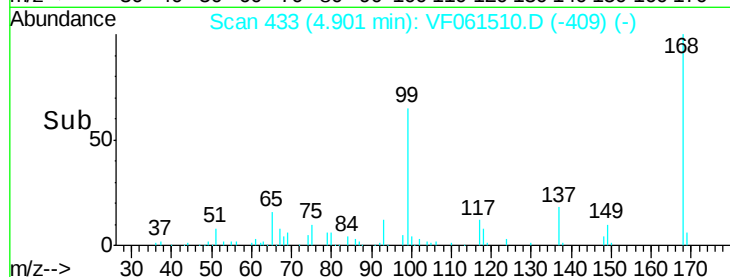
20000

10000

0

Time-->

4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.763 ug/l

RT: 2.57 min Scan# 197

Delta R.T. 0.02 min

Lab File: VF061510.D

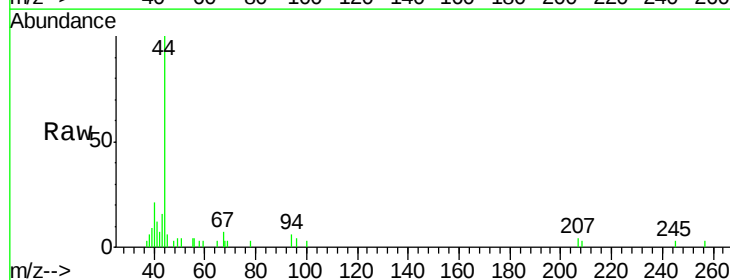
Acq: 24 Jan 2019 19:59

Tgt Ion: 59 Resp: 146

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

150

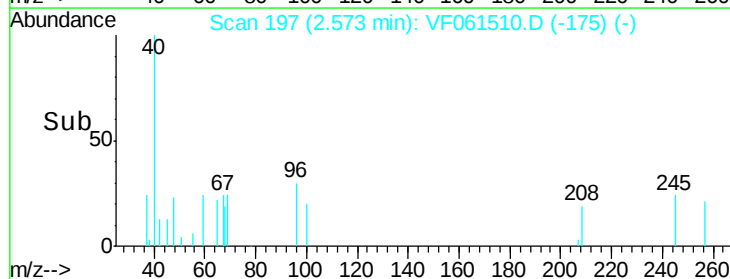
100

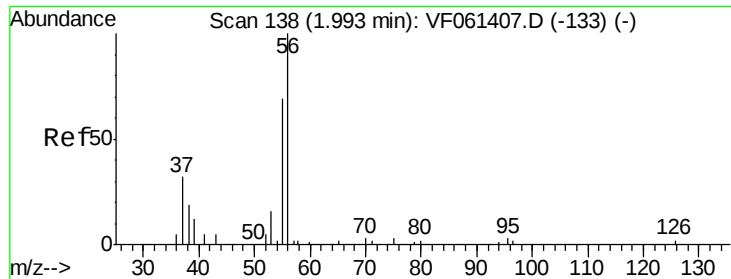
50

0

Time-->

2.55 2.60





#13

Acrolein

Concen: 17.300 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.09 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampleId :

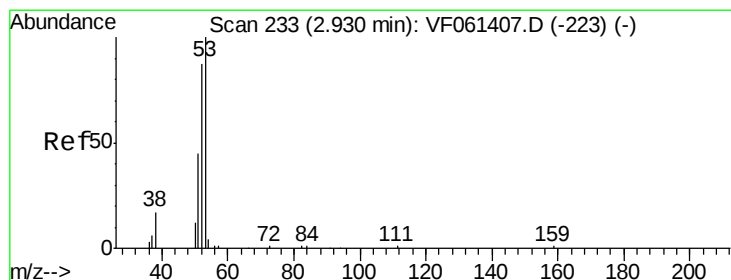
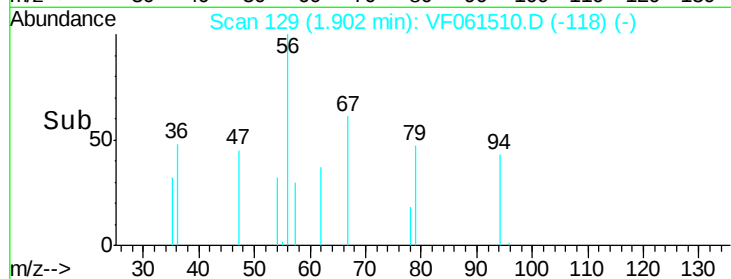
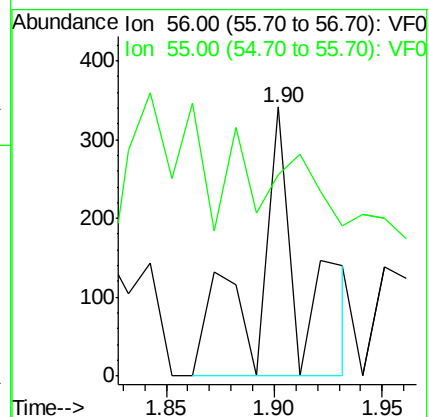
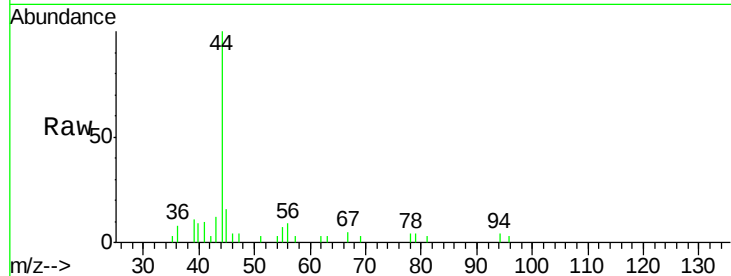
TS-SRE

Tot Ion: 56 Resp: 518

Ion Ratio Lower Upper

56 100

55 75.1 57.5 86.3



#15

Acrylonitrile

Concen: 1.631 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.03 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

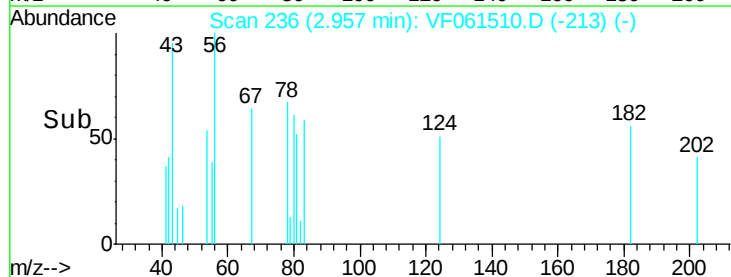
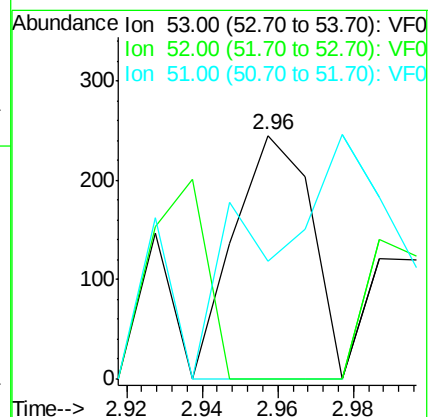
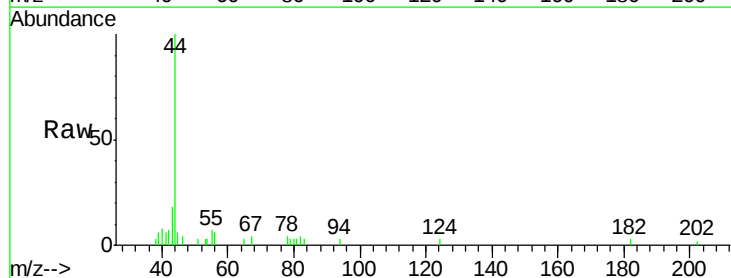
Tgt Ion: 53 Resp: 346

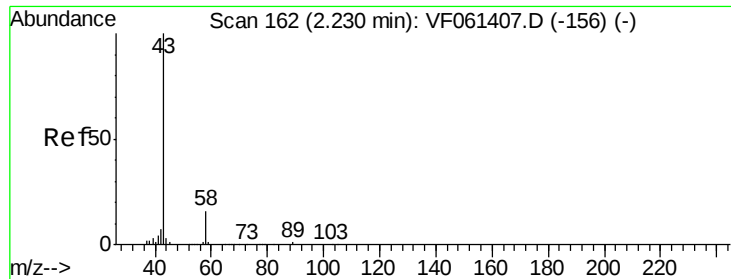
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 48.2 36.8 55.2

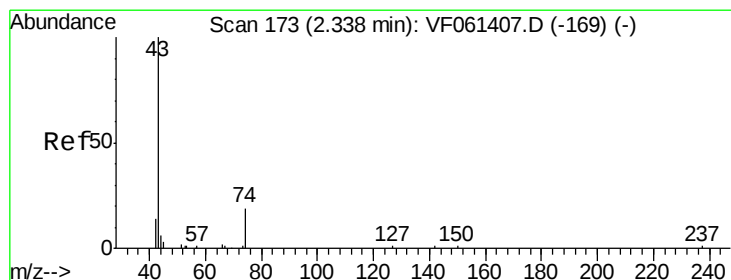
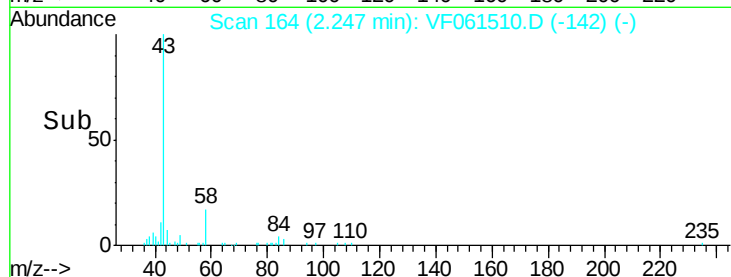
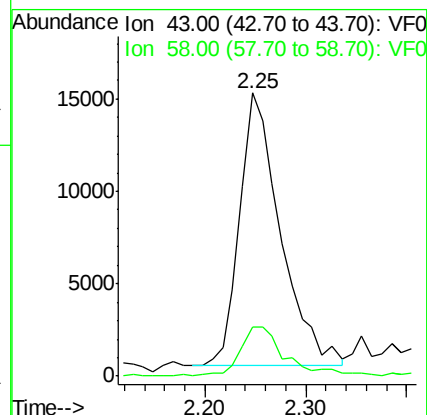
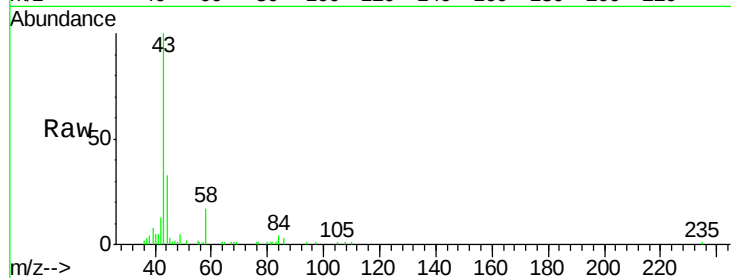




#16
Acetone
Concen: 106.264 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.02 min
Lab File: VF061510.D
Acq: 24 Jan 2019 19:59

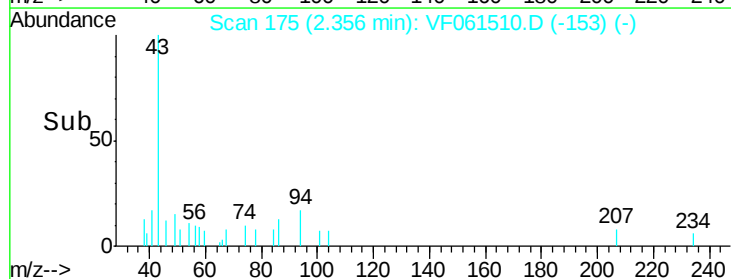
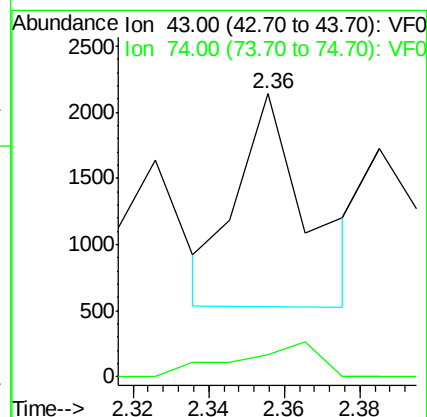
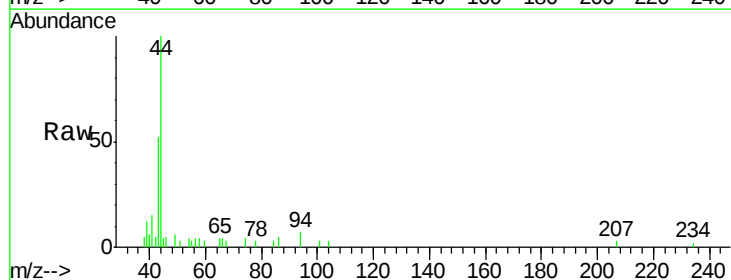
Instrument :
MSVOA_F
ClientSampleId :
TS-SRE

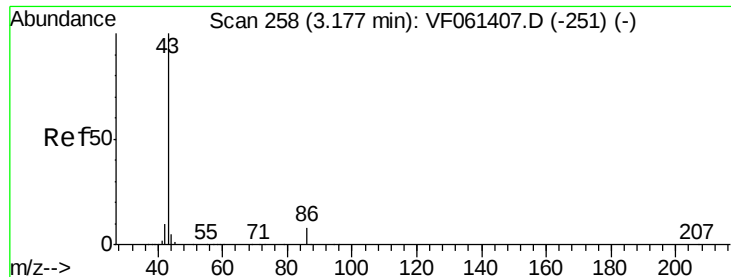
Tot Ion: 43 Resp: 41698
Ion Ratio Lower Upper
43 100
58 17.3 13.3 19.9



#18
Methyl Acetate
Concen: 2.652 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF061510.D
Acq: 24 Jan 2019 19:59

Tgt Ion: 43 Resp: 2064
Ion Ratio Lower Upper
43 100
74 7.8 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.590 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampleId :

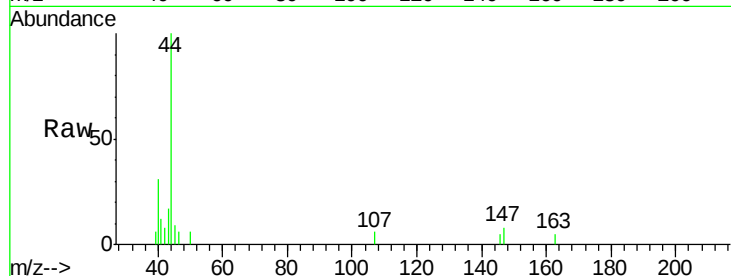
TS-SRE

Tot Ion: 43 Resp: 885

Ion Ratio Lower Upper

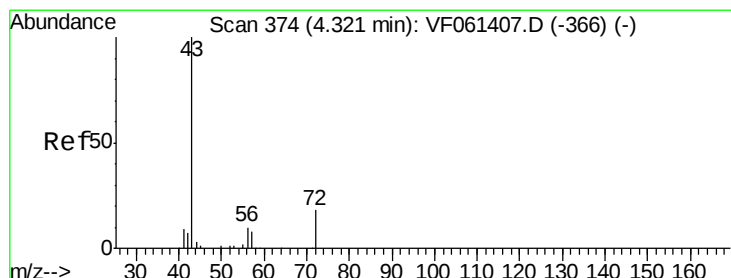
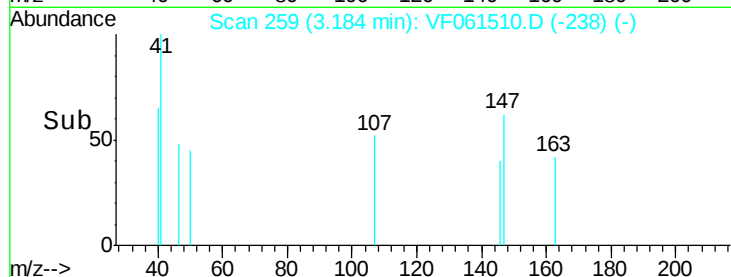
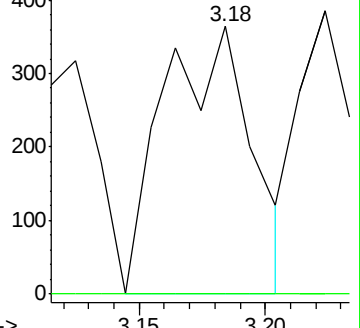
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 166.388 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.04 min

Lab File: VF061510.D

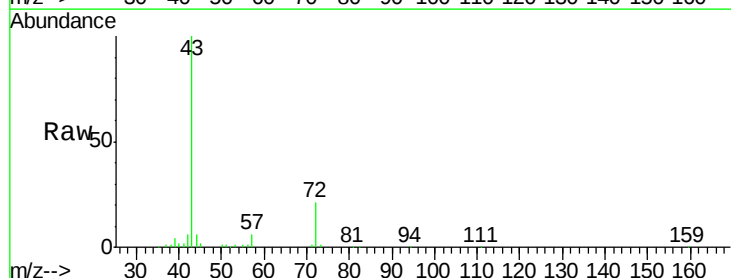
Acq: 24 Jan 2019 19:59

Tgt Ion: 43 Resp: 108575

Ion Ratio Lower Upper

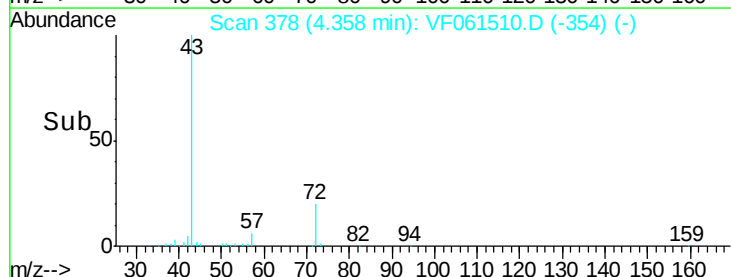
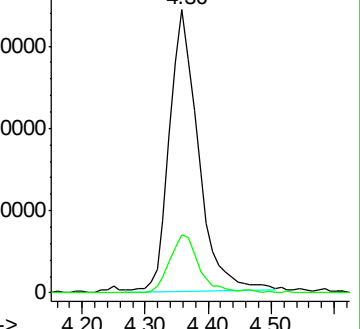
43 100

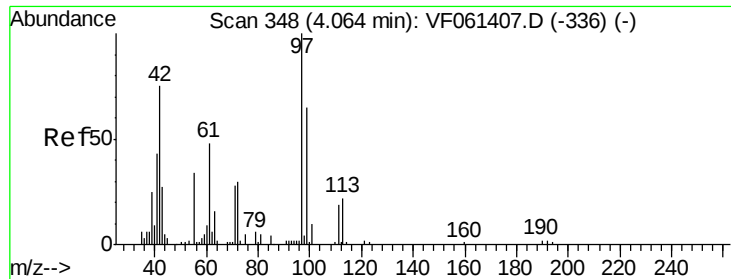
72 20.7 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.377 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.06 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampleId :

TS-SRE

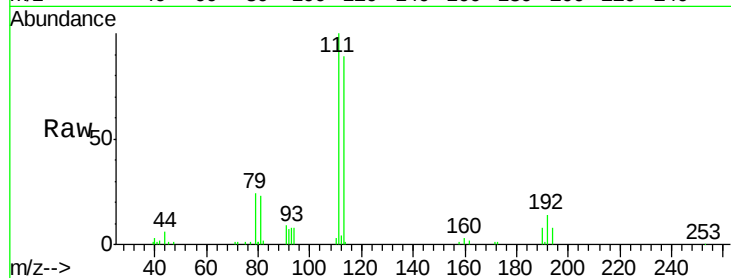
Tot Ion: 42 Resp: 668

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

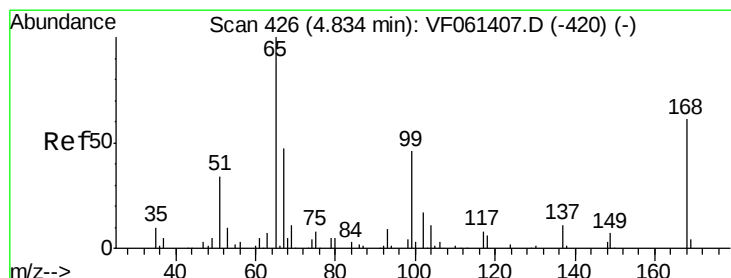
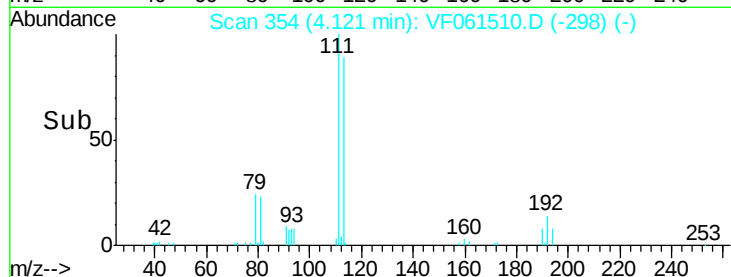
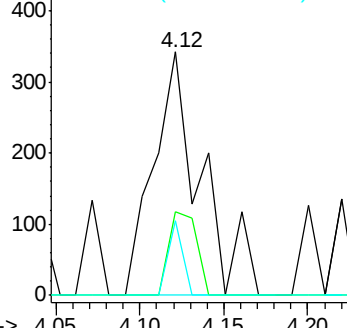
71 9.3 29.6 44.4#



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: 43.232 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.04 min

Lab File: VF061510.D

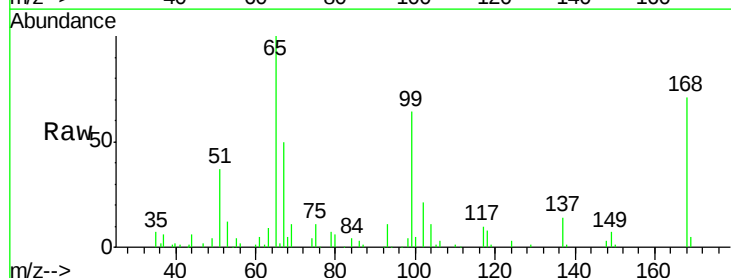
Acq: 24 Jan 2019 19:59

Tgt Ion: 65 Resp: 84562

Ion Ratio Lower Upper

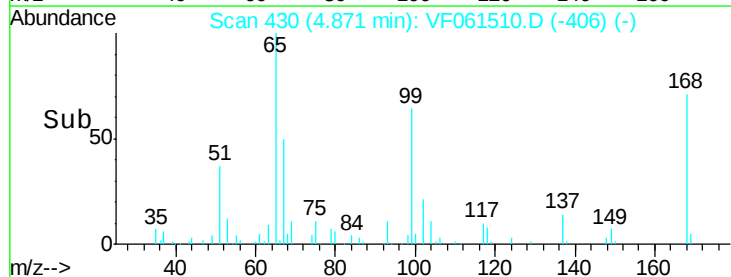
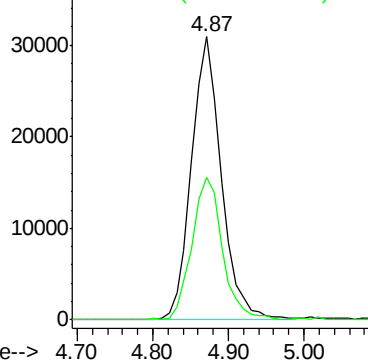
65 100

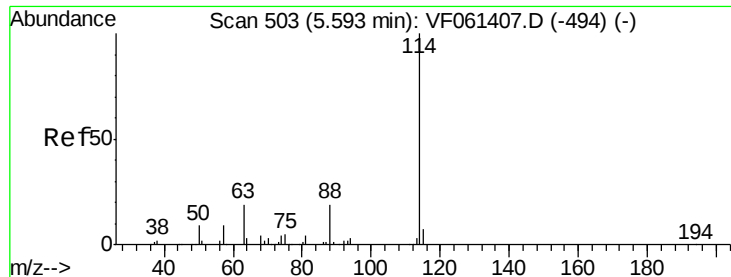
67 50.3 0.0 99.8



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: 5.62 min Scan# 506

Delta R.T. 0.03 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampled :

TS-SRE

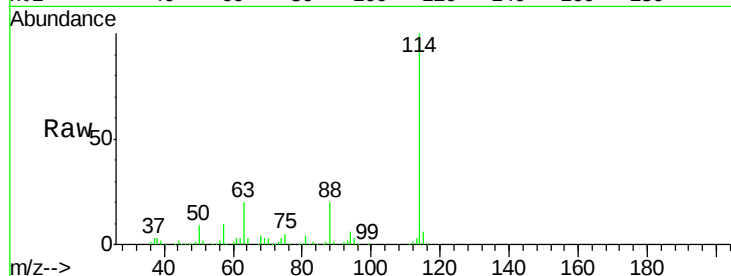
Tot Ion:114 Resp: 297309

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

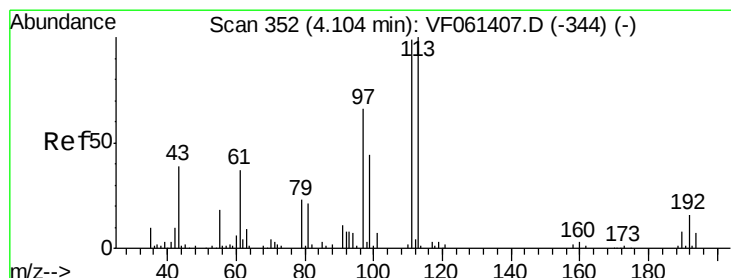
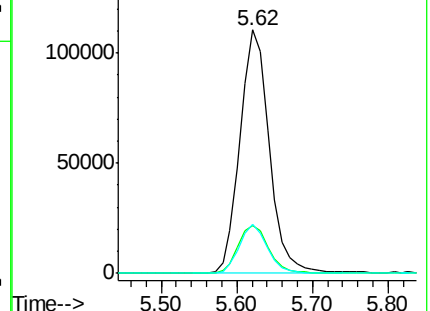
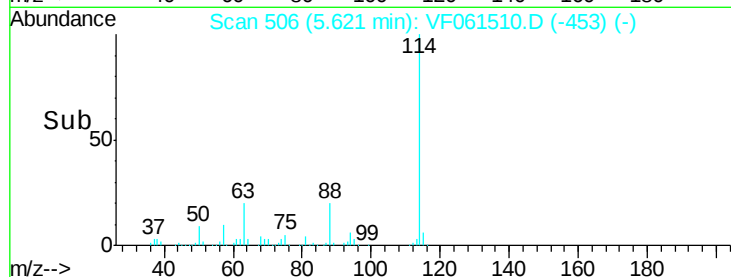
88 20.2 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 40.006 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.04 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

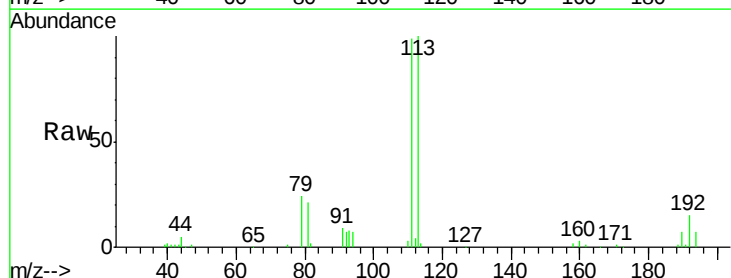
Tgt Ion:113 Resp: 93855

Ion Ratio Lower Upper

113 100

111 99.4 79.4 119.0

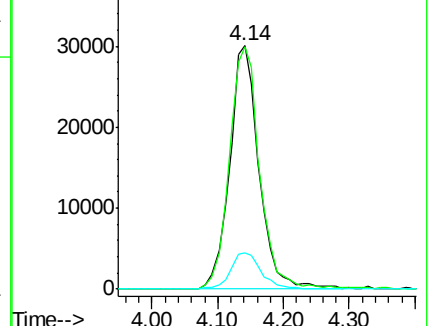
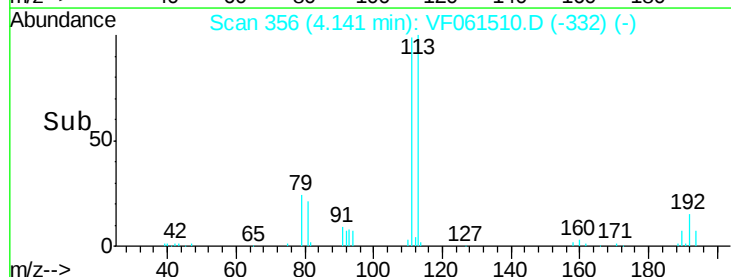
192 14.8 12.4 18.6

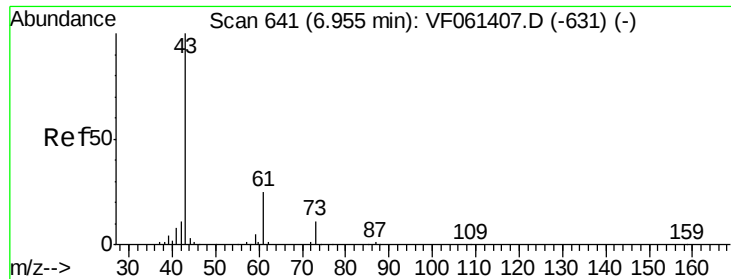


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 6.891 ug/l

RT: 6.92 min Scan# 638

Delta R.T. -0.03 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampleId :

TS-SRE

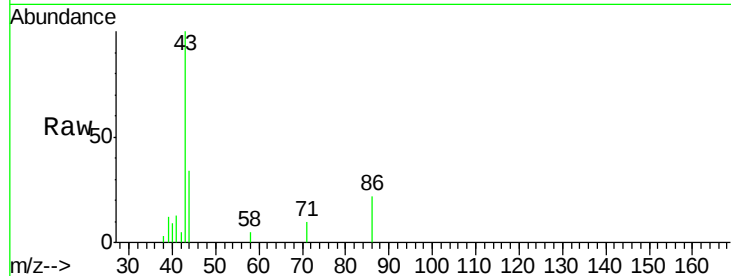
Tot Ion: 43 Resp: 11917

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

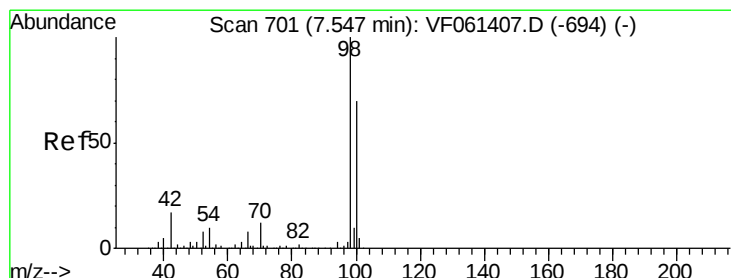
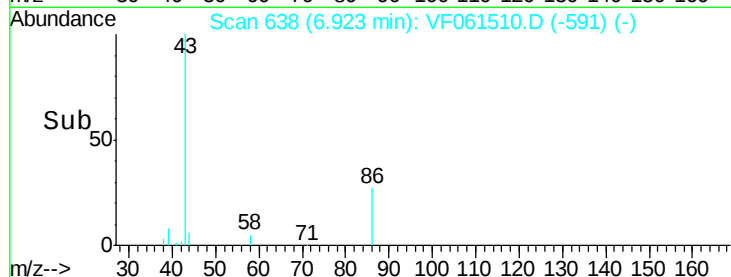
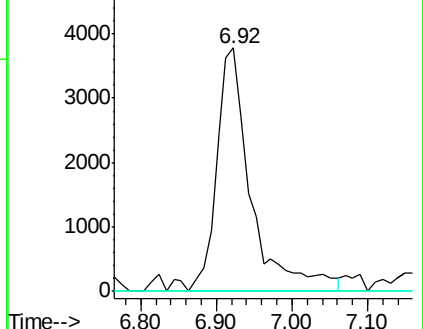
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#50

Toluene-d8

Concen: 28.834 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.03 min

Lab File: VF061510.D

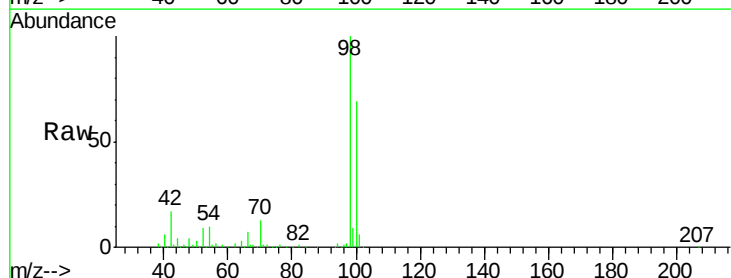
Acq: 24 Jan 2019 19:59

Tgt Ion: 98 Resp: 185337

Ion Ratio Lower Upper

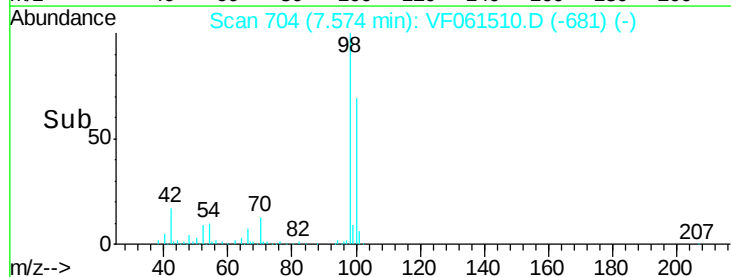
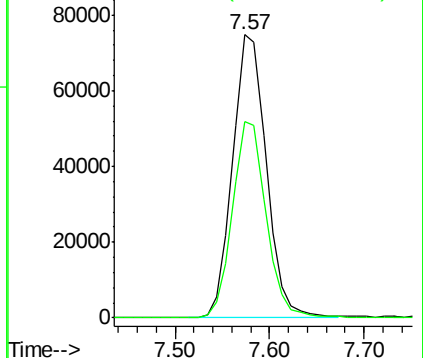
98 100

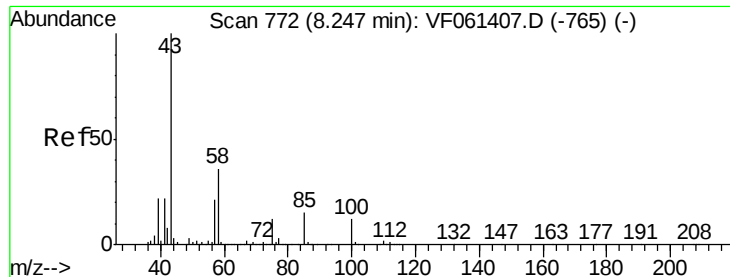
100 69.3 55.6 83.4



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: 1.866 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.04 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampled :

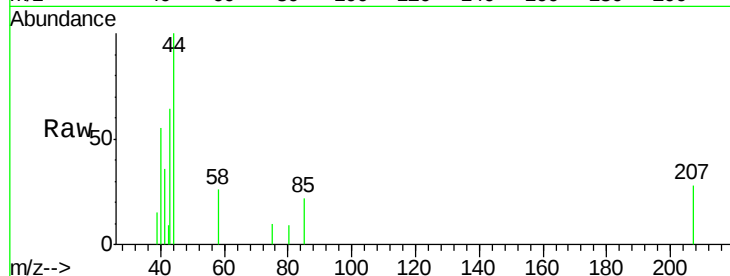
TS-SRE

Tot Ion: 43 Resp: 2372

Ion Ratio Lower Upper

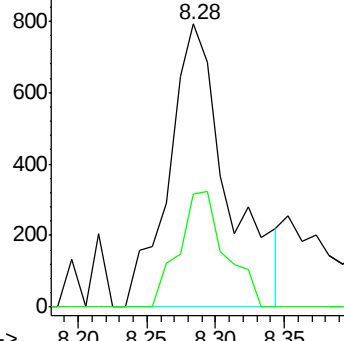
43 100

58 40.2 28.8 43.2

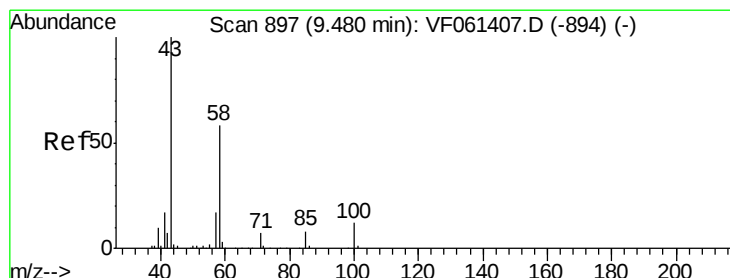
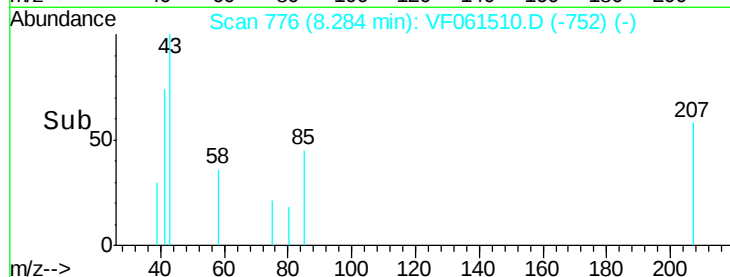


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#59

2-Hexanone

Concen: 3.417 ug/l

RT: 9.52 min Scan# 901

Delta R.T. 0.04 min

Lab File: VF061510.D

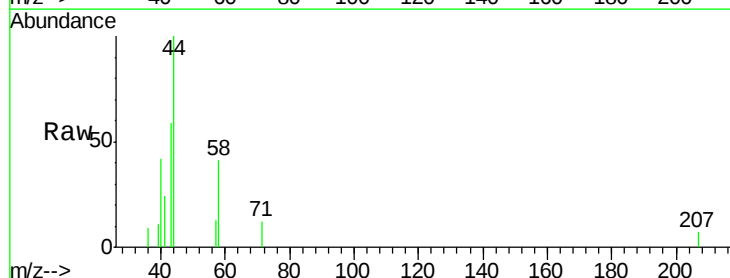
Acq: 24 Jan 2019 19:59

Tgt Ion: 43 Resp: 3029

Ion Ratio Lower Upper

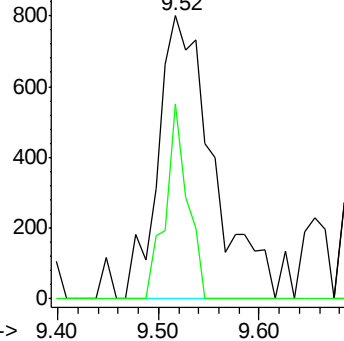
43 100

58 69.0 25.9 77.6

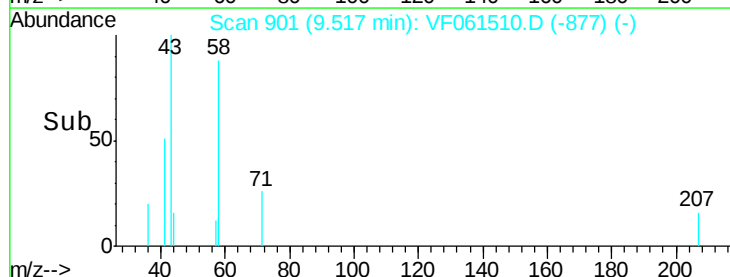


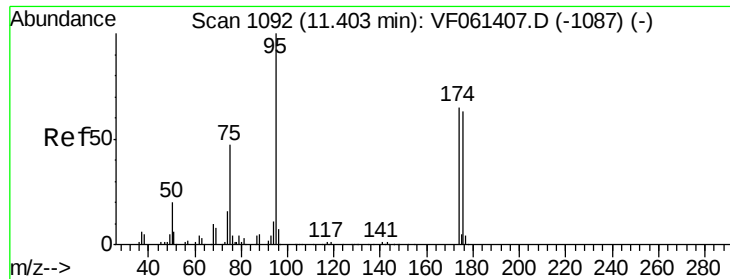
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#62

4-Bromofluorobenzene

Concen: 16.322 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.03 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampleId :

TS-SRE

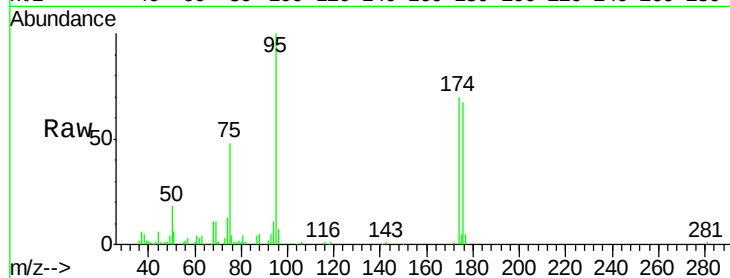
Tot Ion: 95 Resp: 49018

Ion Ratio Lower Upper

95 100

174 69.9 0.0 130.4

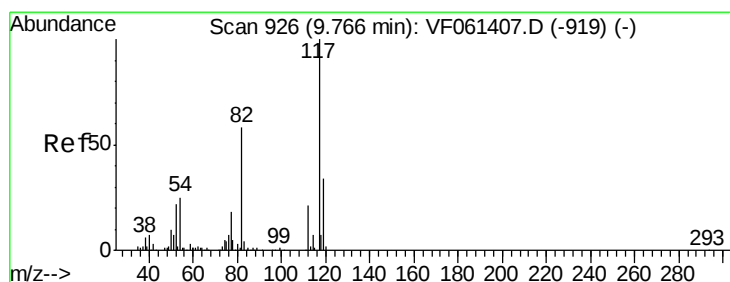
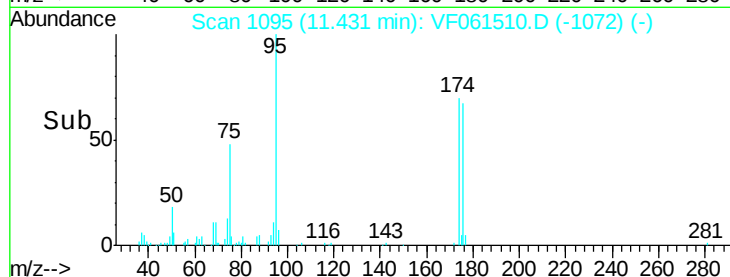
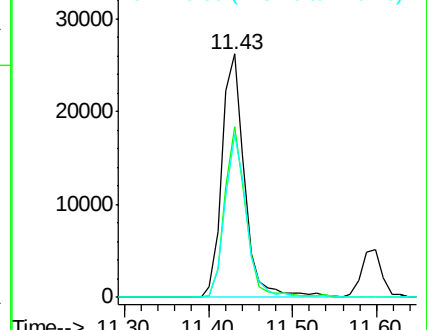
176 67.1 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.03 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

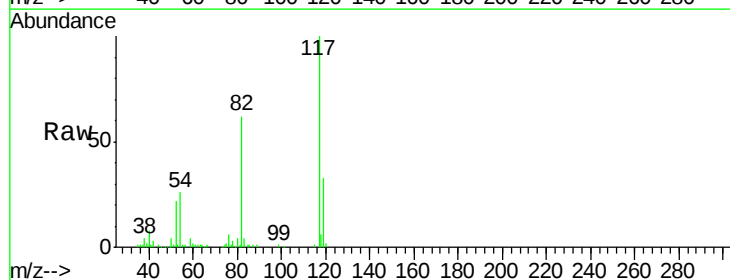
Tgt Ion: 117 Resp: 176454

Ion Ratio Lower Upper

117 100

82 61.7 46.4 69.6

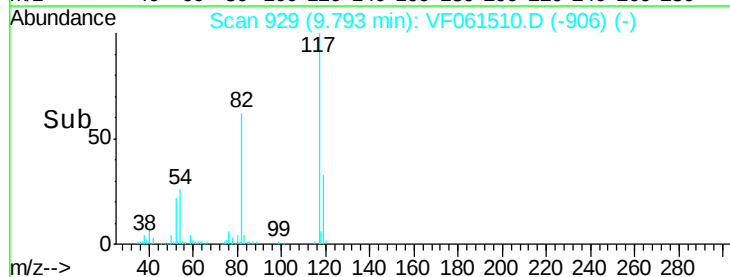
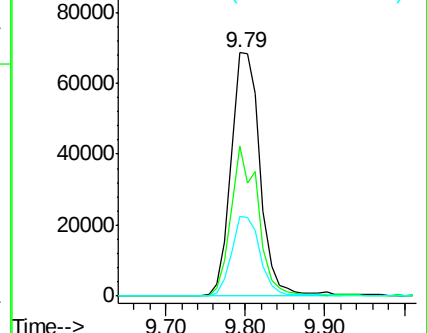
119 32.7 27.2 40.8

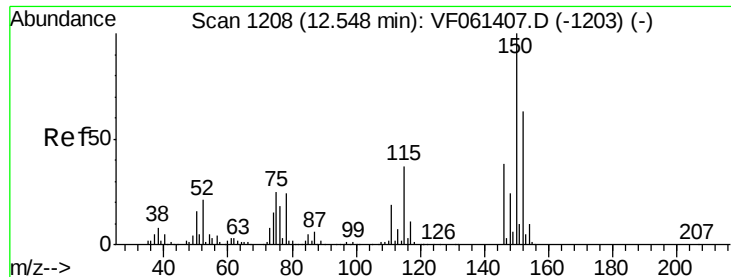


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

Instrument :

MSVOA_F

ClientSampleId :

TS-SRE

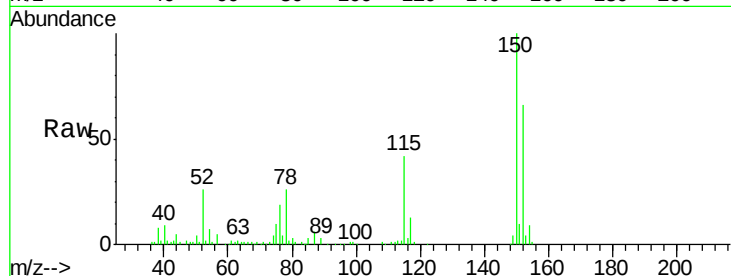
Tot Ion:152 Resp: 41616

Ion Ratio Lower Upper

152 100

115 63.5 30.0 90.0

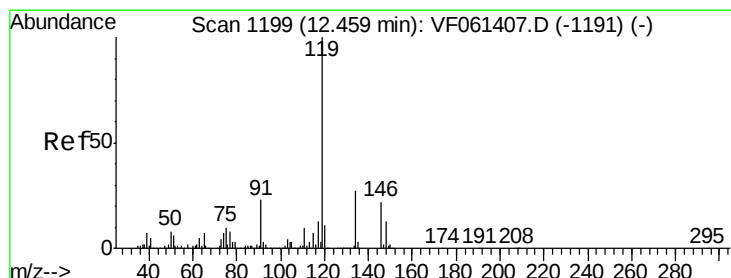
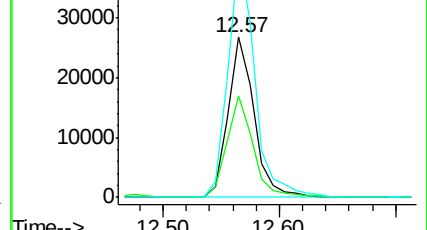
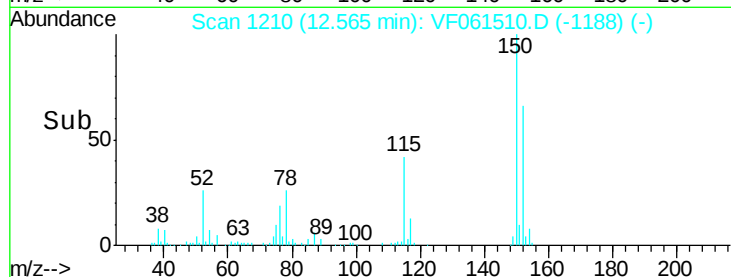
150 151.9 0.0 321.4



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



#86

p-Isopropyltoluene

Concen: 3.187 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VF061510.D

Acq: 24 Jan 2019 19:59

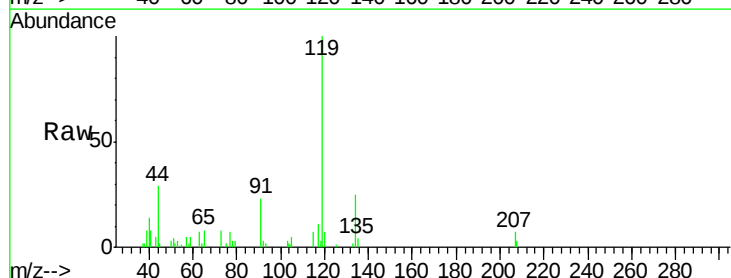
Tgt Ion:119 Resp: 10045

Ion Ratio Lower Upper

119 100

134 25.3 13.4 40.2

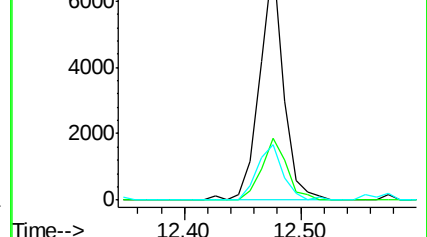
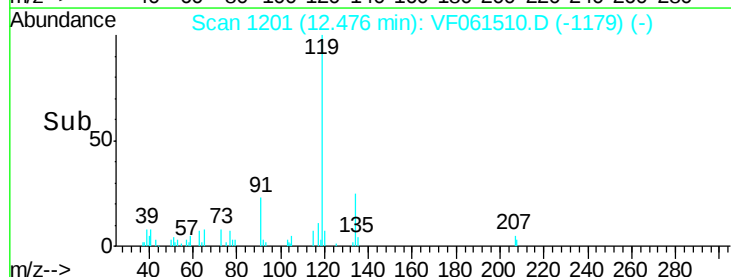
91 22.7 11.4 34.2

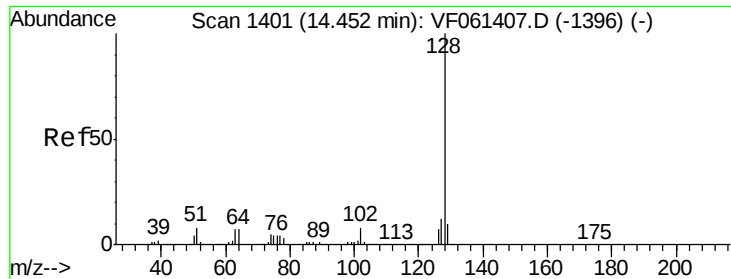


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#95
Naphthalene
Concen: 1.488 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.02 min
Lab File: VF061510.D
Acq: 24 Jan 2019 19:59

Instrument :
MSVOA_F
ClientSampleId :
TS-SRE

Tot Ion:128 Resp: 2649
Ion Ratio Lower Upper
128 100
127 18.9 9.5 14.3#
129 11.7 8.4 12.6

