

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062088.D
 Acq On : 22 Mar 2019 17:51
 Operator : VA/AP
 Sample : K2043-04
 Misc : 6.02g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB429-190319-(20-22)

Quant Time: Mar 23 04:15:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	242940	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.62	114	387884	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.80	117	331879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.58	152	179190	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	81746	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
35) Dibromofluoromethane	4.14	113	125193	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
50) Toluene-d8	7.59	98	347617	44.38	ug/l	0.00
Spiked Amount			Recovery	=	88.76%	
62) 4-Bromofluorobenzene	11.43	95	144003	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	

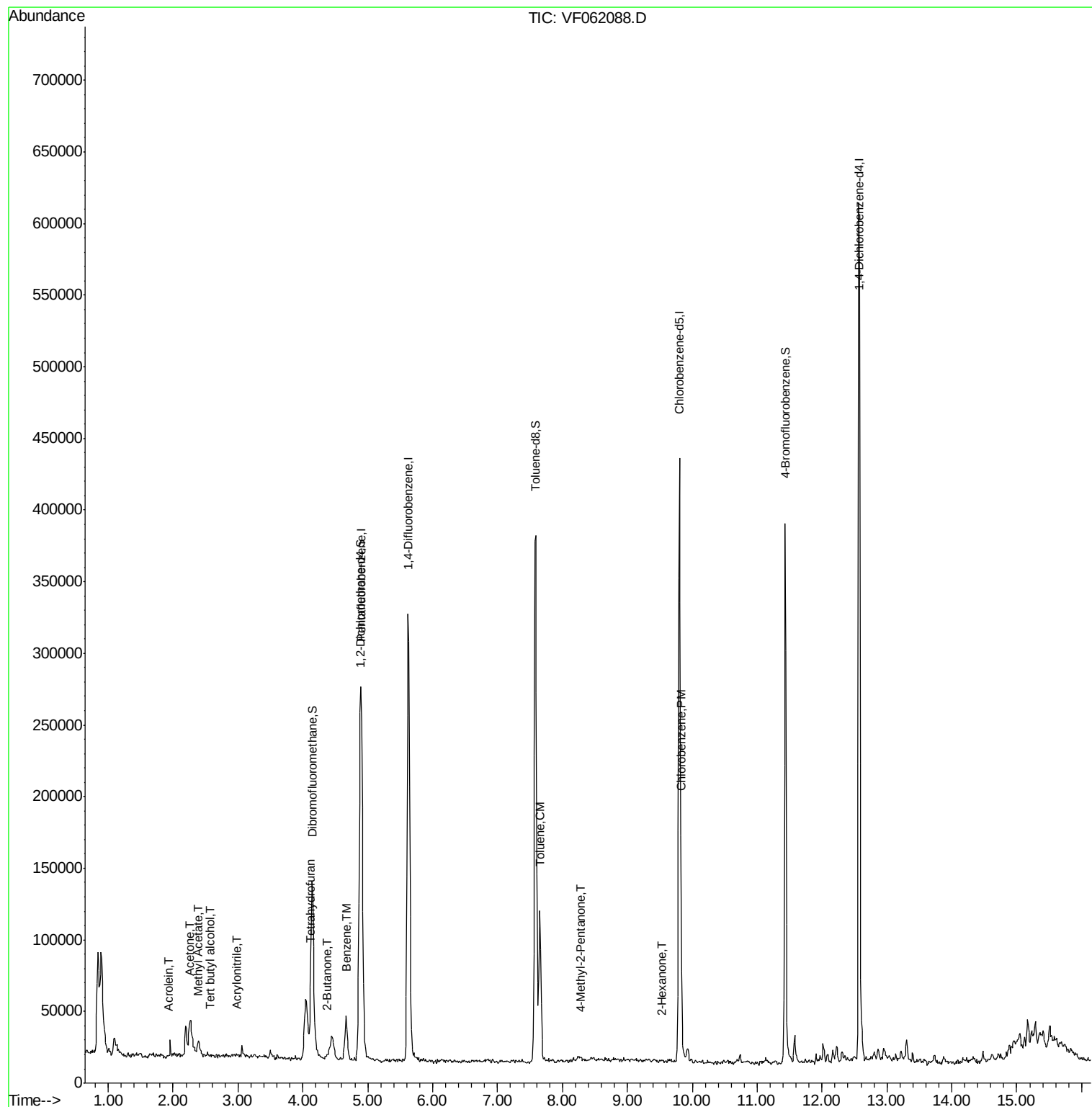
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	231	2.323	ug/l #	66
13) Acrolein	1.94	56	274	2.292	ug/l	87
15) Acrylonitrile	2.98	53	501	1.433	ug/l #	70
16) Acetone	2.25	43	19101	50.224	ug/l #	88
18) Methyl Acetate	2.40	43	4725	5.208	ug/l #	56
25) 2-Butanone	4.36	43	5303	6.679	ug/l	97
29) Tetrahydrofuran	4.10	42	1105	3.201	ug/l #	77
40) Benzene	4.67	78	37746	3.811	ug/l	99
51) 4-Methyl-2-Pentanone	8.29	43	1906	1.456	ug/l #	68
52) Toluene	7.65	92	60936	10.622	ug/l	100
59) 2-Hexanone	9.52	43	1051	1.096	ug/l	89
65) Chlorobenzene	9.83	112	7602	1.224	ug/l #	87

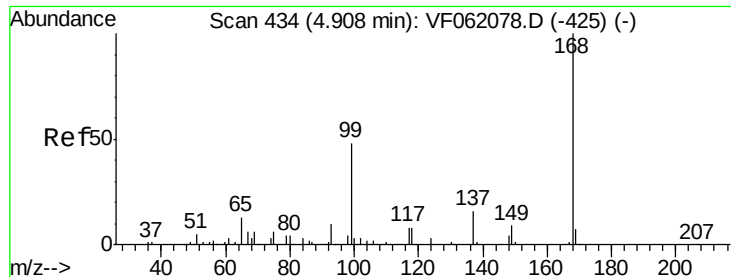
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

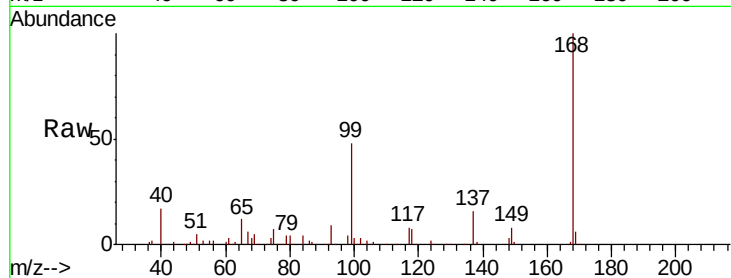
WP022SB429-190319-(20-22)

Tot Ion:168 Resp: 242940

Ion Ratio Lower Upper

168 100

99 48.4 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

80000

60000

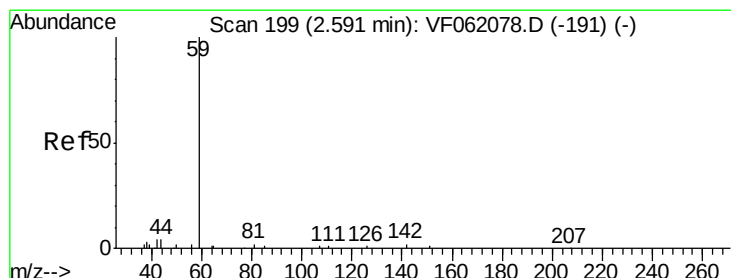
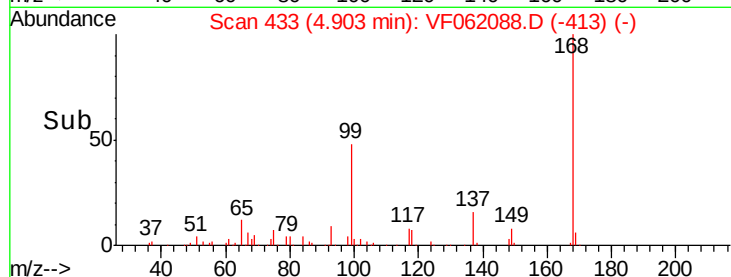
40000

20000

0

Time-->

4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 2.323 ug/l

RT: 2.58 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF062088.D

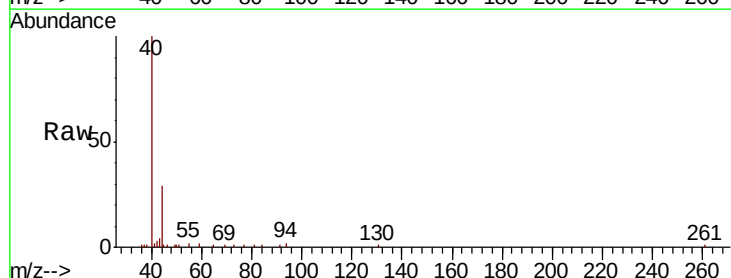
Acq: 22 Mar 2019 17:51

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

300

250

200

150

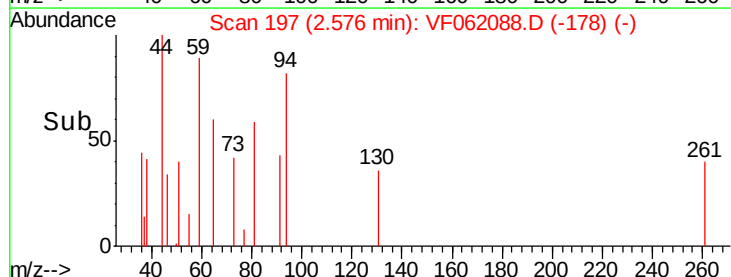
100

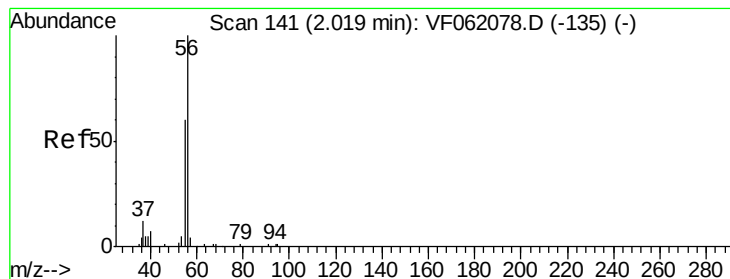
50

0

Time-->

2.54 2.56 2.58 2.60 2.62





#13

Acrolein

Concen: 2.292 ug/l

RT: 1.94 min Scan# 132

Delta R.T. -0.08 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

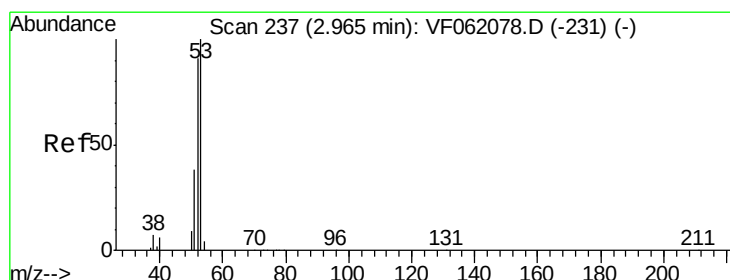
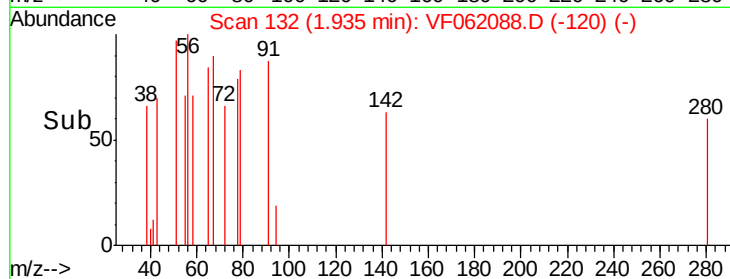
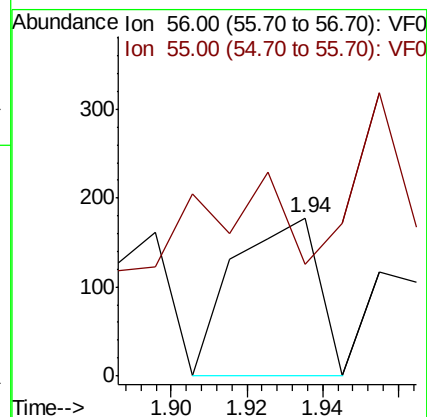
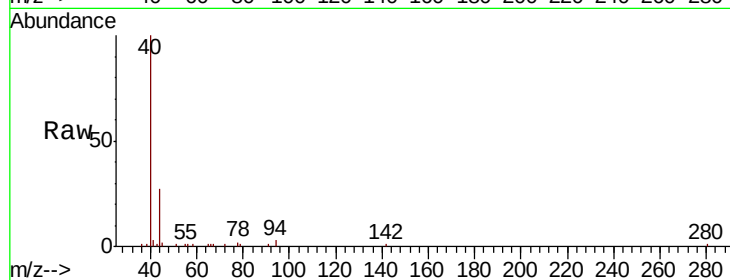
WP022SB429-190319-(20-22)

Tot Ion: 56 Resp: 274

Ion Ratio Lower Upper

56 100

55 70.8 49.0 73.4



#15

Acrylonitrile

Concen: 1.433 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.02 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

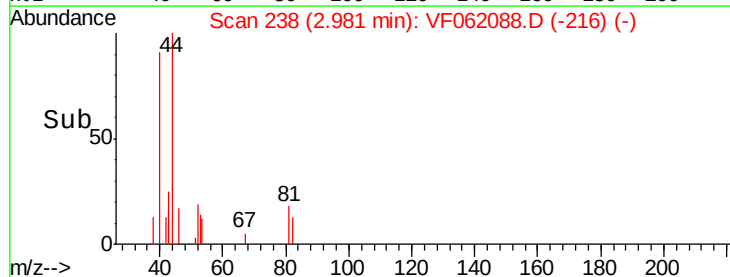
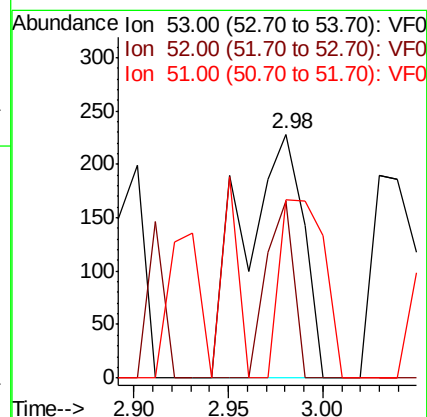
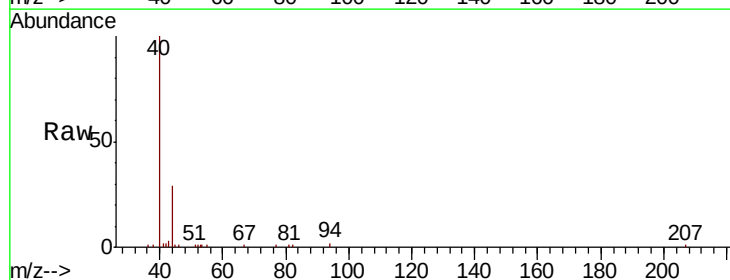
Tgt Ion: 53 Resp: 501

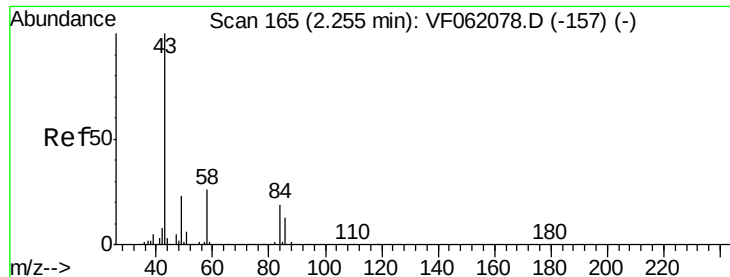
Ion Ratio Lower Upper

53 100

52 72.8 72.3 108.5

51 73.2 30.4 45.6#





#16

Acetone

Concen: 50.224 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

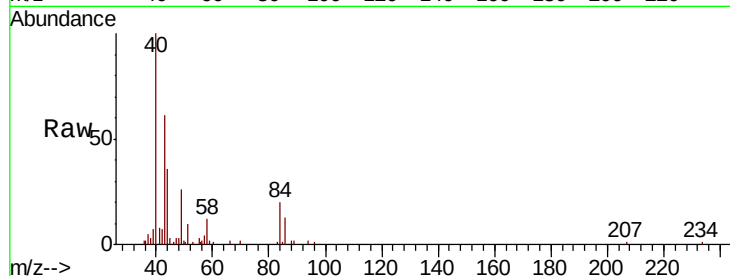
WP022SB429-190319-(20-22)

Tot Ion: 43 Resp: 19101

Ion Ratio Lower Upper

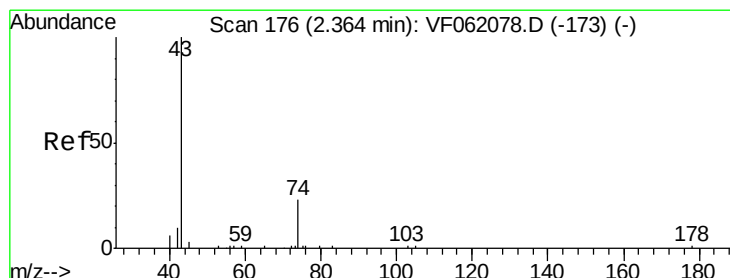
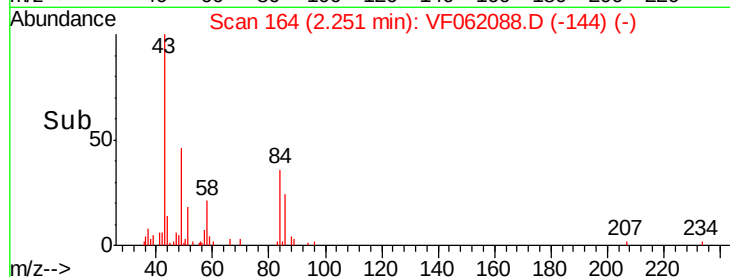
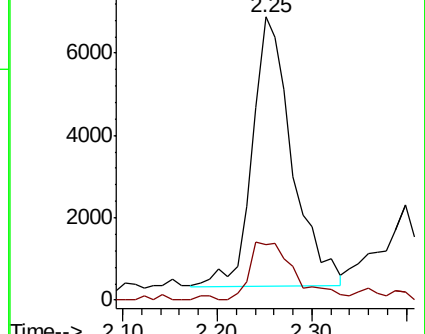
43 100

58 19.6 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 5.208 ug/l

RT: 2.40 min Scan# 179

Delta R.T. 0.04 min

Lab File: VF062088.D

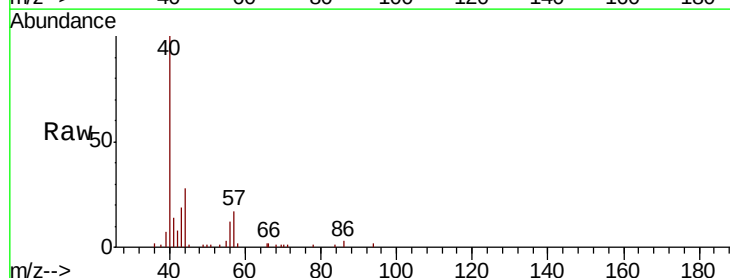
Acq: 22 Mar 2019 17:51

Tgt Ion: 43 Resp: 4725

Ion Ratio Lower Upper

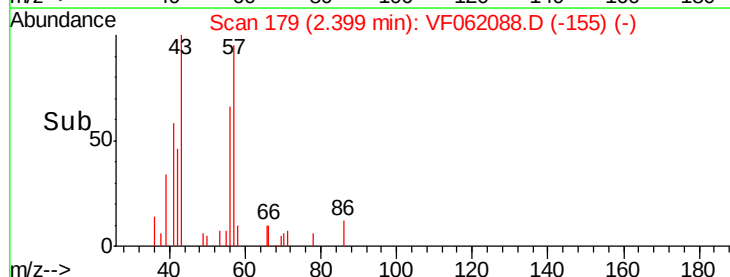
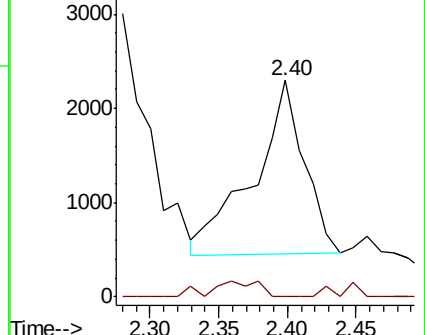
43 100

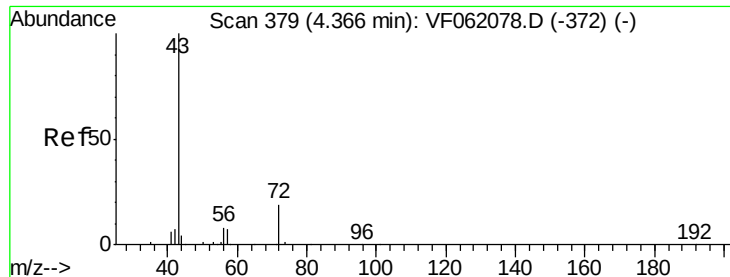
74 0.0 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#25

2-Butanone

Concen: 6.679 ug/l

RT: 4.36 min Scan# 378

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

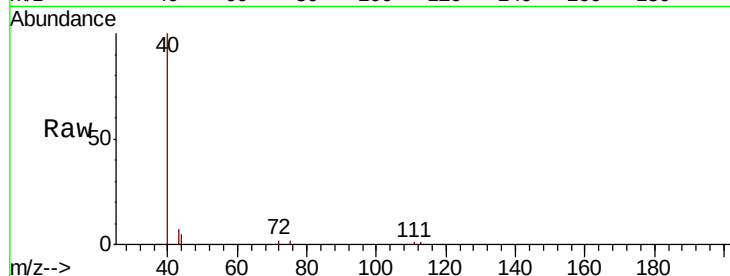
WP022SB429-190319-(20-22)

Tot Ion: 43 Resp: 5303

Ion Ratio Lower Upper

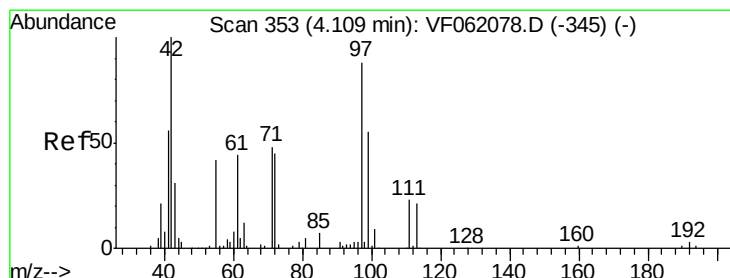
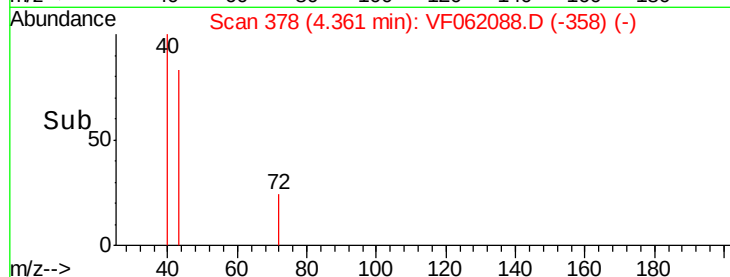
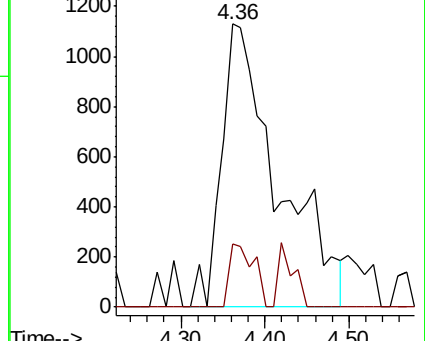
43 100

72 22.1 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 3.201 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

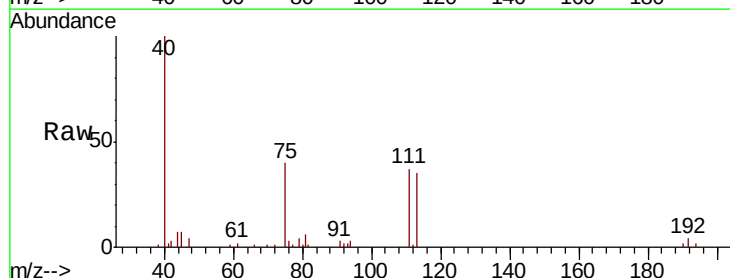
Tgt Ion: 42 Resp: 1105

Ion Ratio Lower Upper

42 100

72 37.9 33.3 49.9

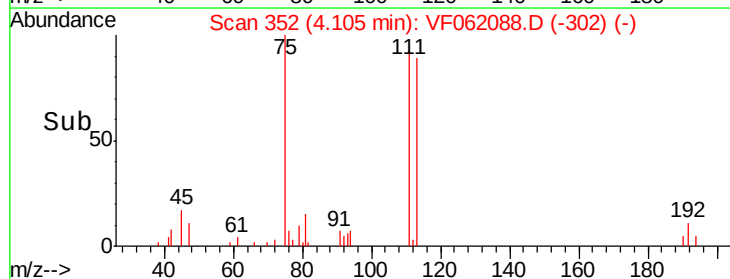
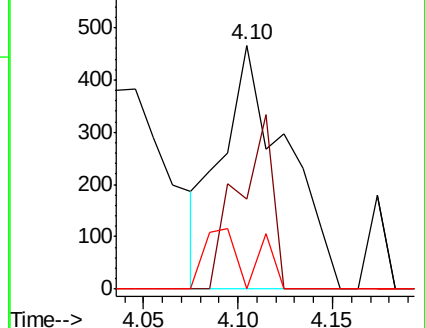
71 17.7 35.0 52.4#

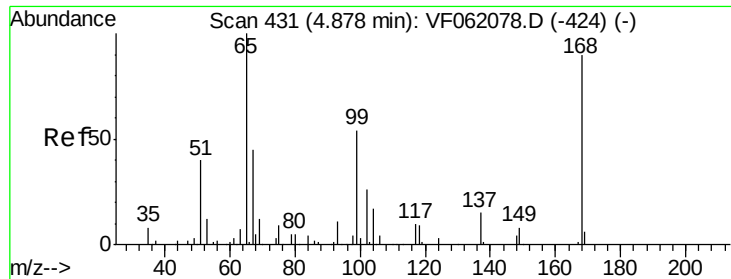


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

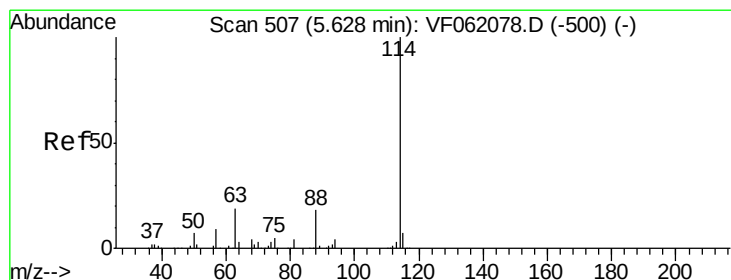
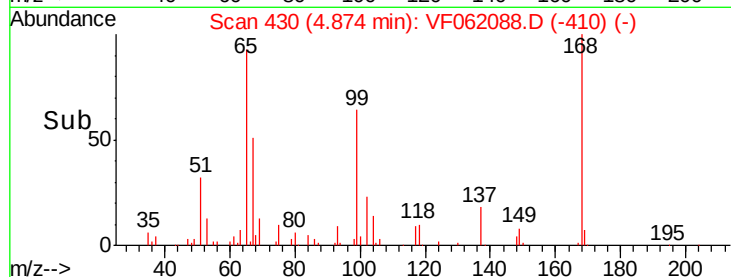
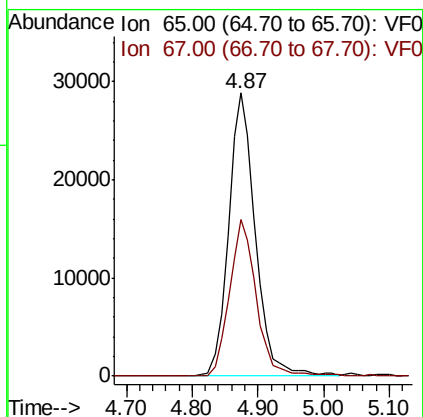
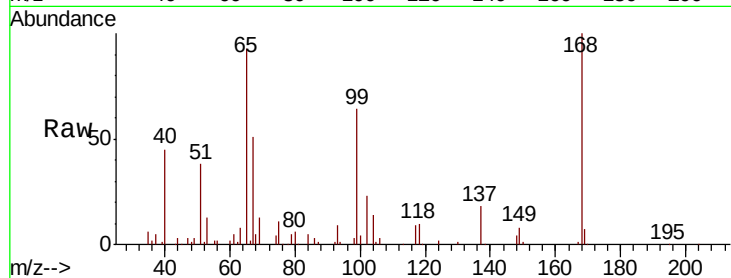




#33
 1,2-Dichloroethane-d4
 Concen: 45.238 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. -0.00 min
 Lab File: VF062088.D
 Acq: 22 Mar 2019 17:51

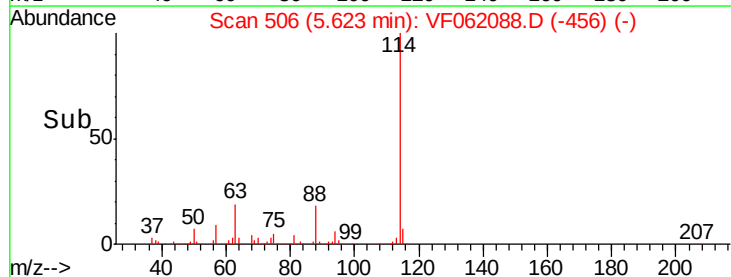
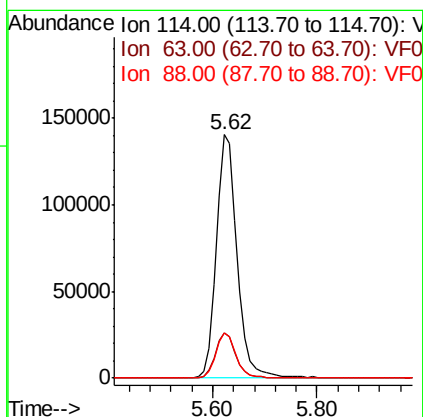
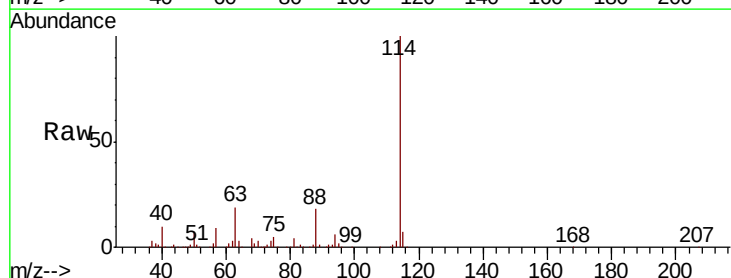
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB429-190319-(20-22)

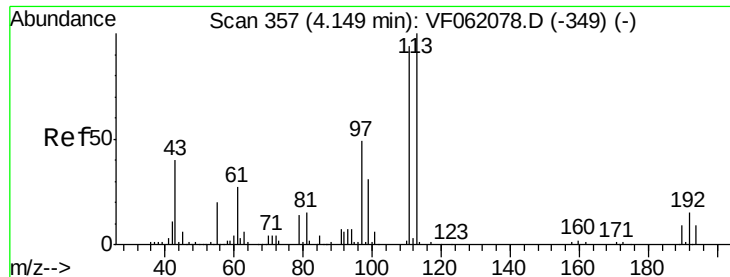
Tot Ion: 65 Resp: 81746
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. -0.00 min
 Lab File: VF062088.D
 Acq: 22 Mar 2019 17:51

Tgt Ion: 114 Resp: 387884
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 37.8
 88 18.5 0.0 36.4





#35

Dibromofluoromethane

Concen: 47.713 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

WP022SB429-190319-(20-22)

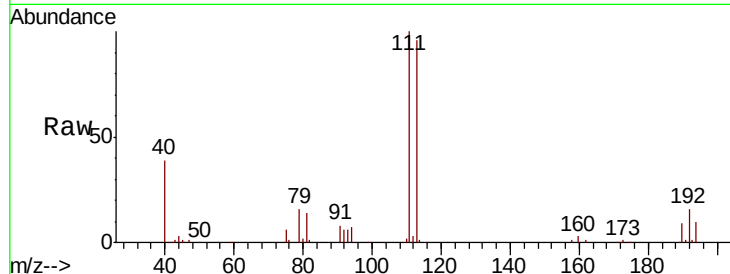
Tot Ion:113 Resp: 125193

Ion Ratio Lower Upper

113 100

111 104.4 75.4 113.0

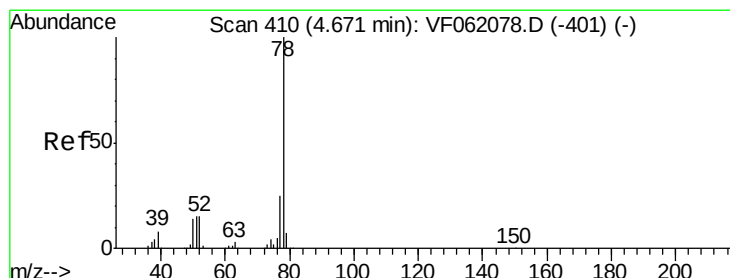
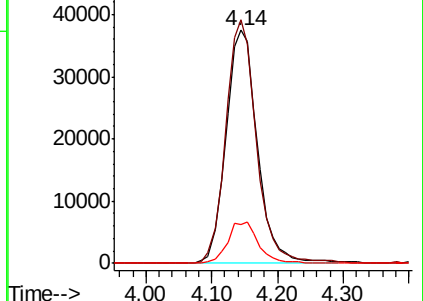
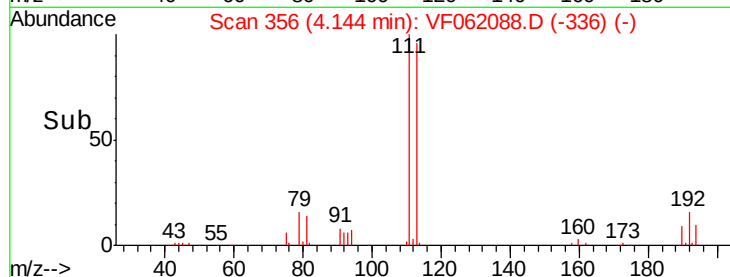
192 16.9 12.3 18.5



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



#40

Benzene

Concen: 3.811 ug/l

RT: 4.67 min Scan# 409

Delta R.T. -0.00 min

Lab File: VF062088.D

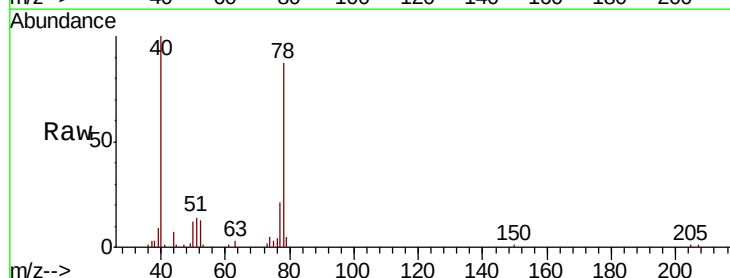
Acq: 22 Mar 2019 17:51

Tgt Ion: 78 Resp: 37746

Ion Ratio Lower Upper

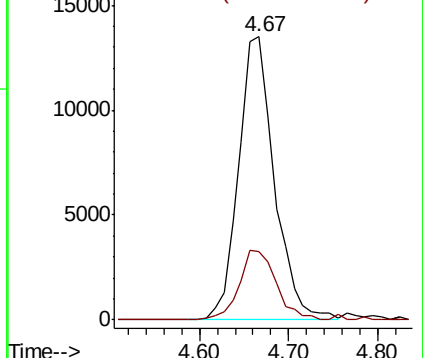
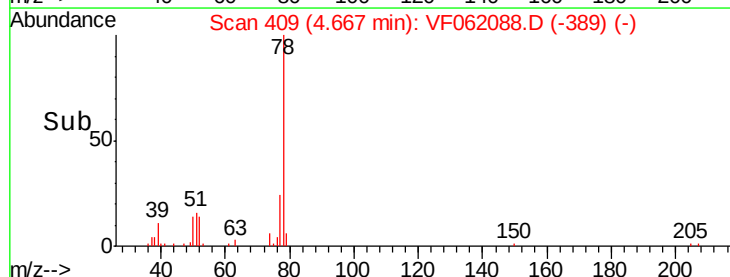
78 100

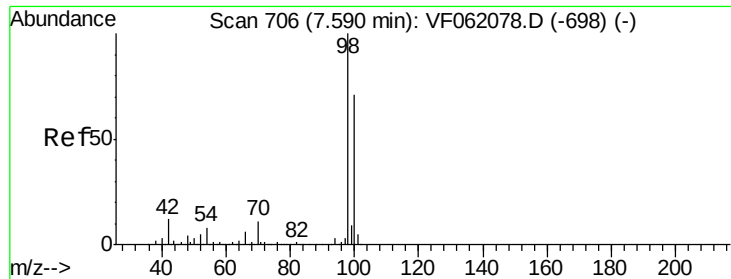
77 24.2 19.8 29.6



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0





#50

Toluene-d8

Concen: 44.382 ug/l

RT: 7.59 min Scan# 705

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

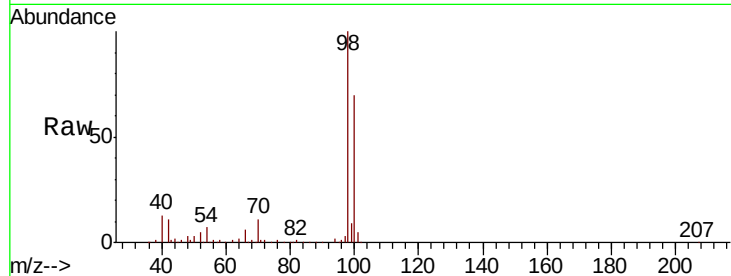
WP022SB429-190319-(20-22)

Tot Ion: 98 Resp: 347617

Ion Ratio Lower Upper

98 100

100 70.3 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.59

150000

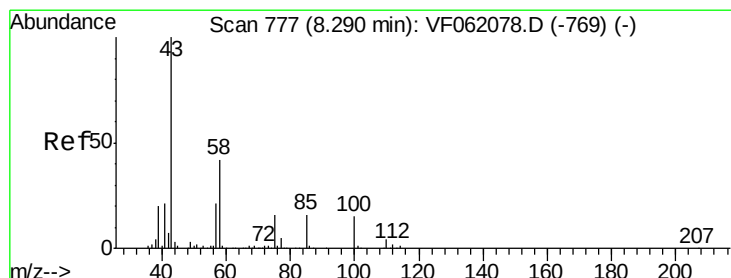
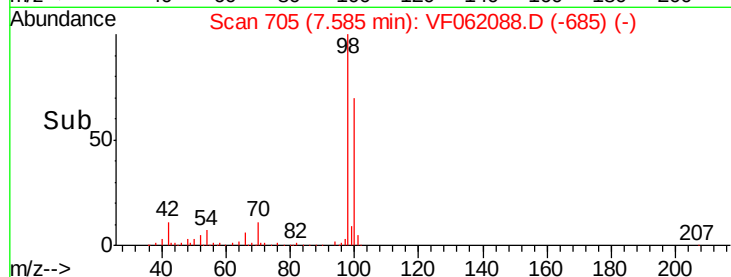
100000

50000

0

Time-->

7.50 7.60 7.70 7.80



#51

4-Methyl-2-Pentanone

Concen: 1.456 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF062088.D

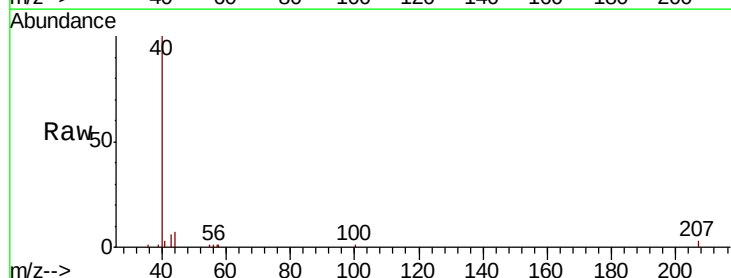
Acq: 22 Mar 2019 17:51

Tgt Ion: 43 Resp: 1906

Ion Ratio Lower Upper

43 100

58 21.9 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

1000

800

600

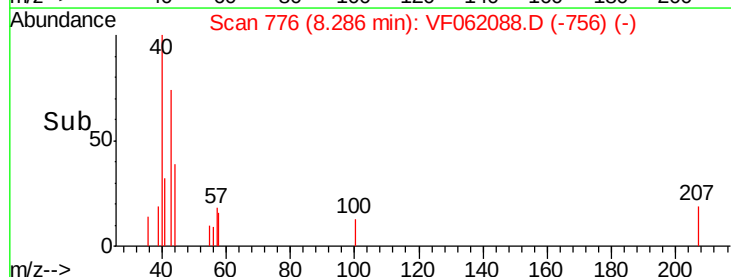
400

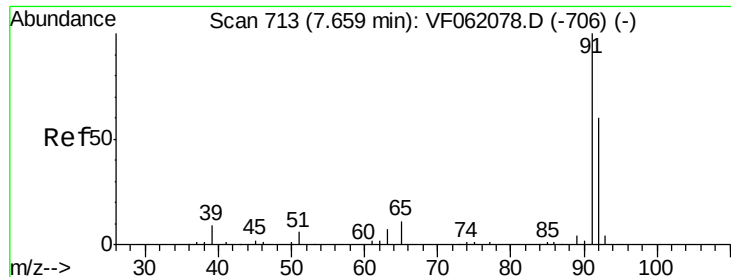
200

0

Time-->

8.25 8.30 8.35





#52

Toluene

Concen: 10.622 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

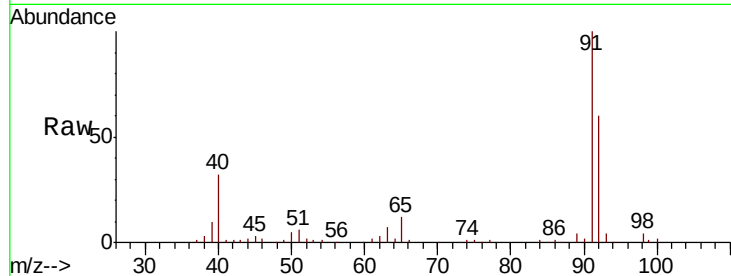
WP022SB429-190319-(20-22)

Tot Ion: 92 Resp: 60936

Ion Ratio Lower Upper

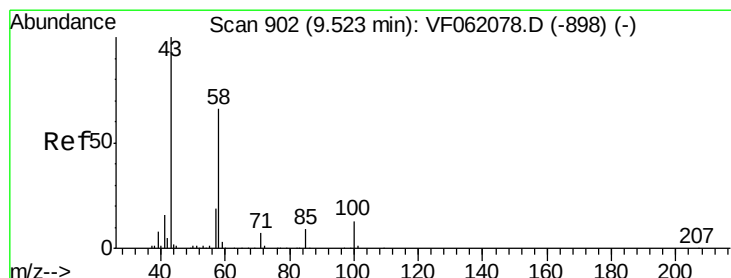
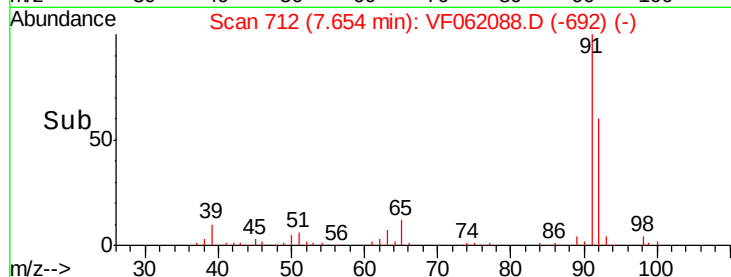
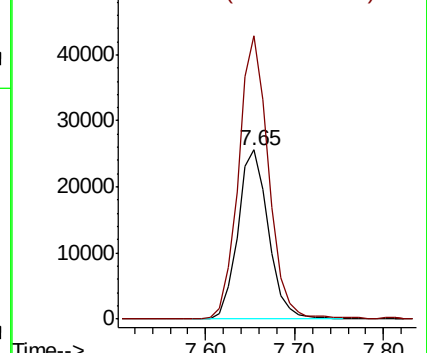
92 100

91 167.5 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.096 ug/l

RT: 9.52 min Scan# 901

Delta R.T. -0.00 min

Lab File: VF062088.D

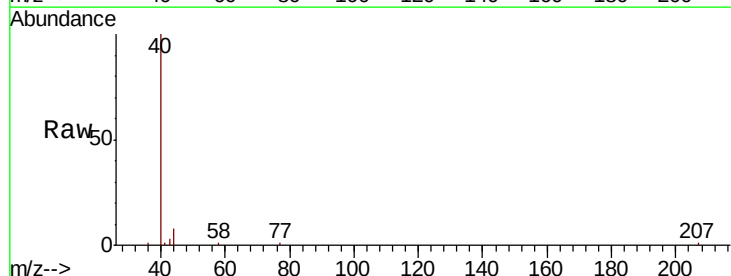
Acq: 22 Mar 2019 17:51

Tgt Ion: 43 Resp: 1051

Ion Ratio Lower Upper

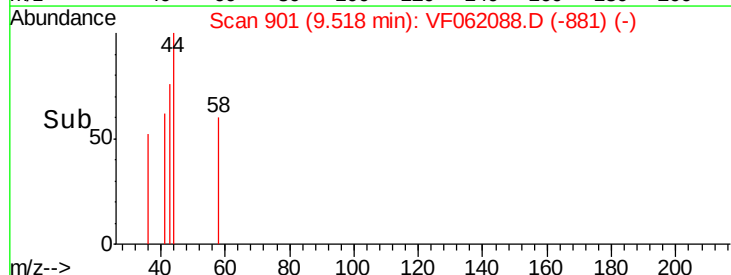
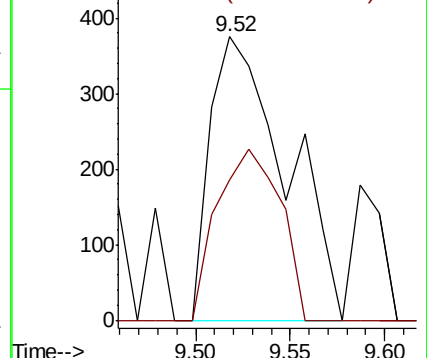
43 100

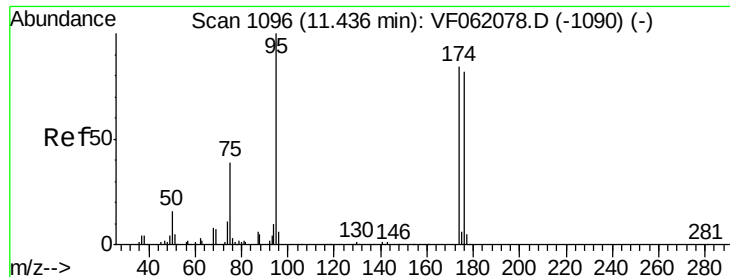
58 49.3 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 47.624 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

WP022SB429-190319-(20-22)

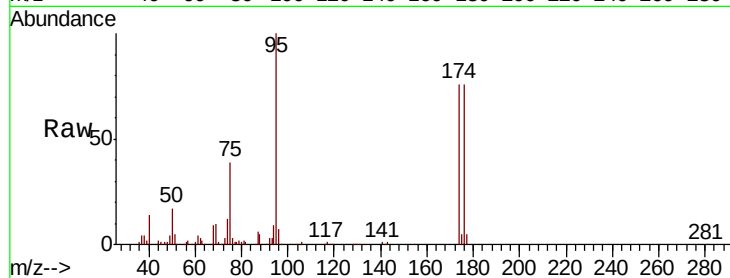
Tot Ion: 95 Resp: 144003

Ion Ratio Lower Upper

95 100

174 75.7 0.0 168.2

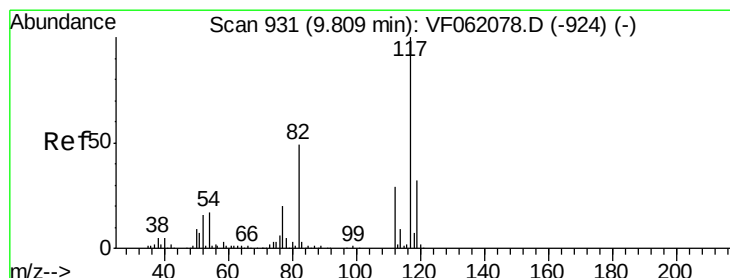
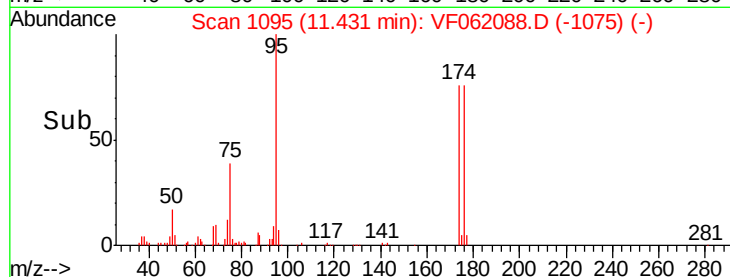
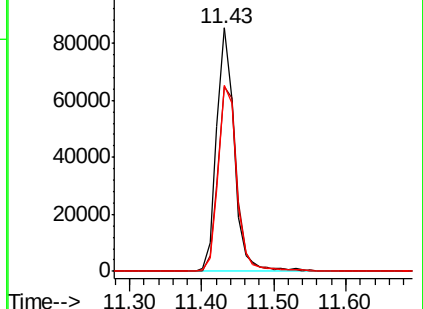
176 76.4 0.0 164.2



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: 9.80 min Scan# 930

Delta R.T. -0.00 min

Lab File: VF062088.D

Acq: 22 Mar 2019 17:51

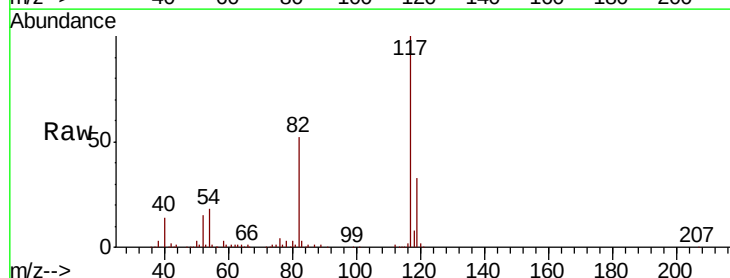
Tgt Ion: 117 Resp: 331879

Ion Ratio Lower Upper

117 100

82 52.2 39.2 58.8

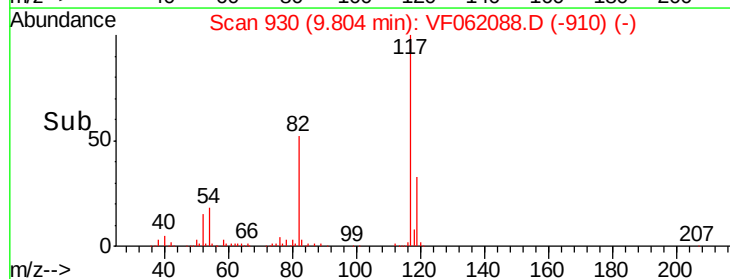
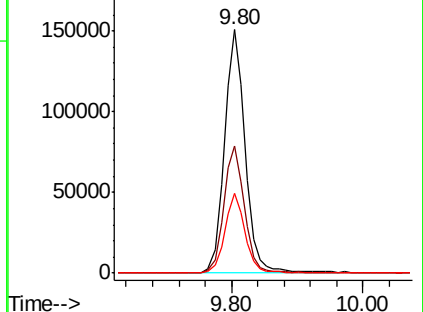
119 32.7 25.4 38.2

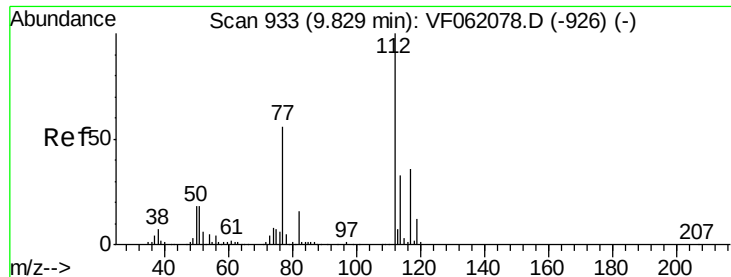


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

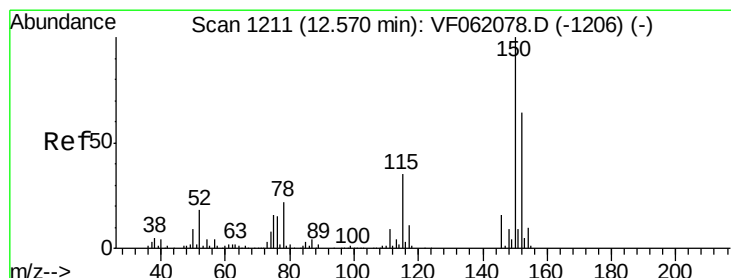
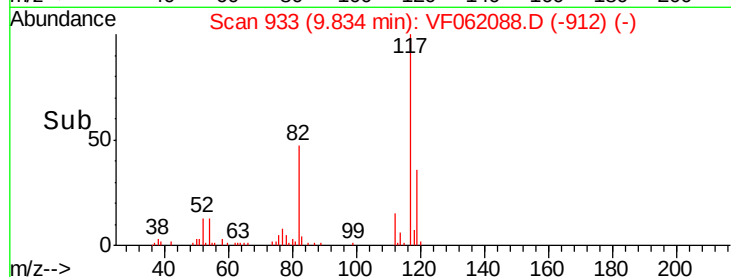
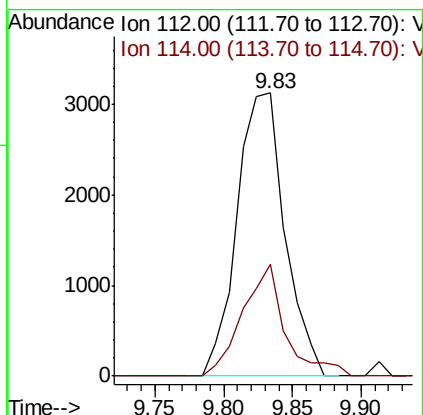
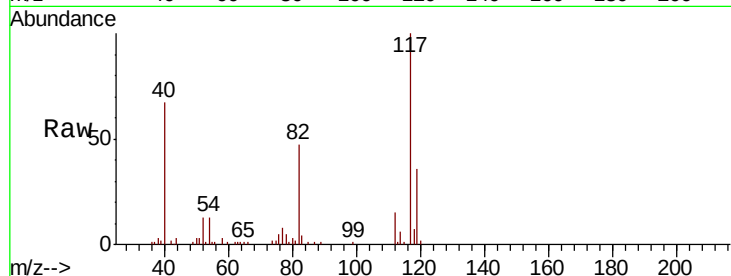




#65
Chlorobenzene
Concen: 1.224 ug/l
RT: 9.83 min Scan# 933
Delta R.T. 0.01 min
Lab File: VF062088.D
Acq: 22 Mar 2019 17:51

Instrument :
MSVOA_F
ClientSampleId :
WP022SB429-190319-(20-22)

Tot Ion:112 Resp: 7602
Ion Ratio Lower Upper
112 100
114 39.7 26.0 39.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1211
Delta R.T. 0.01 min
Lab File: VF062088.D
Acq: 22 Mar 2019 17:51

Tgt Ion:152 Resp: 179190
Ion Ratio Lower Upper
152 100
115 51.9 27.7 83.1
150 153.6 0.0 313.2

