

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031919\
 Data File : VF062023.D
 Acq On : 19 Mar 2019 17:47
 Operator : VA/AP
 Sample : K1958-01
 Misc : 7.27g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 20 05:22:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 18 07:28:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	24815	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	28412	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	18061	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	6925	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	3531	19.77	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	39.54%	
35) Dibromofluoromethane	4.10	113	6878	36.05	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	72.10%	
50) Toluene-d8	7.54	98	24578	44.07	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	88.14%	
62) 4-Bromofluorobenzene	11.41	95	6725	30.35	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	60.70%	

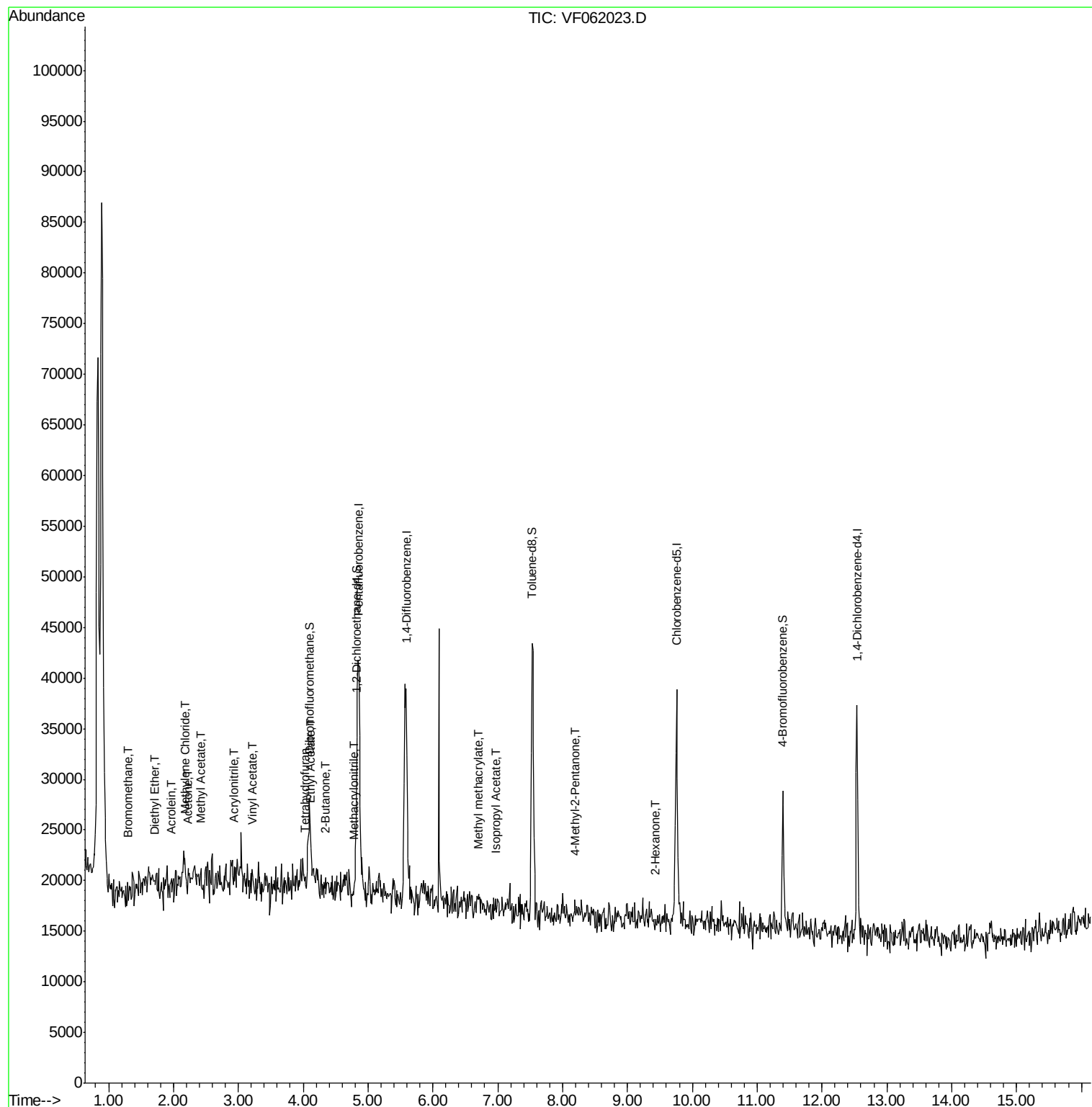
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.31	94	511	2.798	ug/l #	3
8) Diethyl Ether	1.70	74	80	1.045	ug/l	81
13) Acrolein	1.98	56	325	27.543	ug/l #	54
15) Acrylonitrile	2.92	53	92	2.768	ug/l #	18
16) Acetone	2.21	43	1543	38.468	ug/l #	50
18) Methyl Acetate	2.41	43	1532	18.669	ug/l #	63
20) Methylene Chloride	2.18	84	956	4.629	ug/l #	68
23) Vinyl Acetate	3.21	43	466	1.838	ug/l #	77
25) 2-Butanone	4.34	43	130	1.636	ug/l #	51
29) Tetrahydrofuran	4.04	42	151	4.371	ug/l #	65
37) Ethyl Acetate	4.13	43	474	4.114	ug/l #	19
41) Methacrylonitrile	4.78	41	70	1.137	ug/l #	22
43) Isopropyl Acetate	6.98	43	196	1.438	ug/l #	38
48) Methyl methacrylate	6.69	41	282	3.201	ug/l #	20
51) 4-Methyl-2-Pentanone	8.20	43	385	3.978	ug/l #	36
59) 2-Hexanone	9.44	43	111	1.585	ug/l #	23

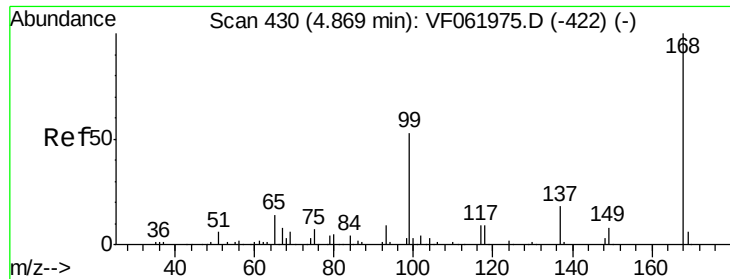
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

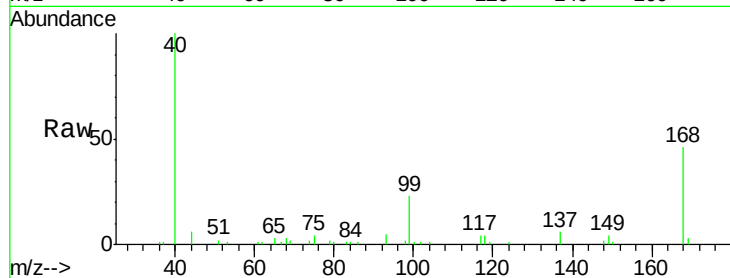
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 24815

Ion Ratio Lower Upper

168 100

99 49.8 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

8000

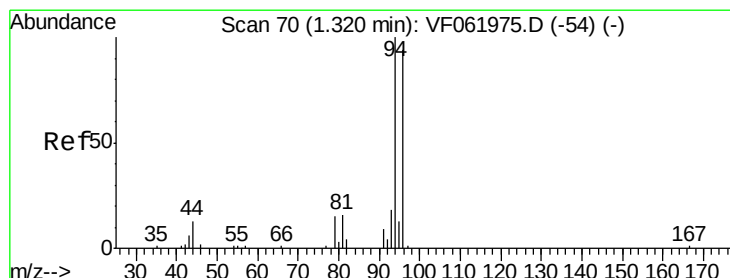
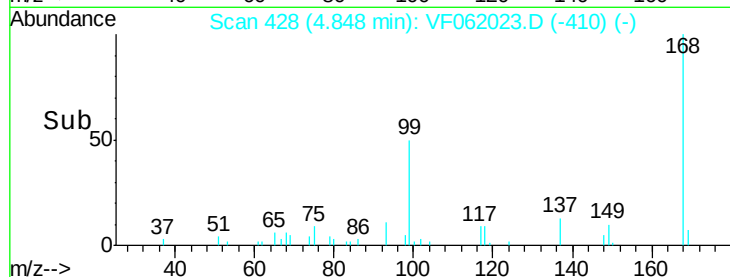
6000

4000

2000

0

Time-->



#5

Bromomethane

Concen: 2.798 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF062023.D

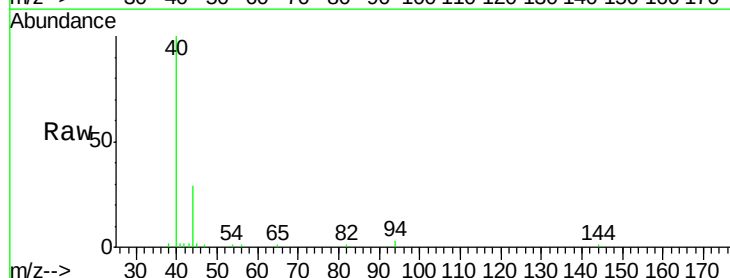
Acq: 19 Mar 2019 17:47

Tgt Ion: 94 Resp: 511

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.31

400

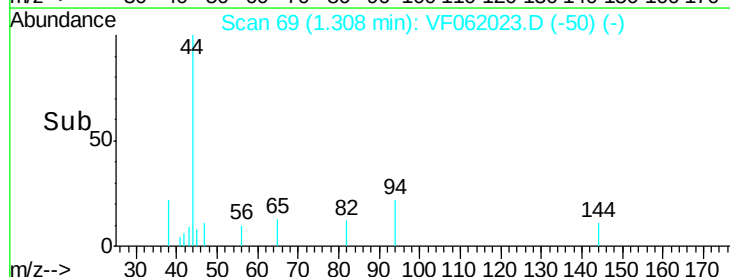
300

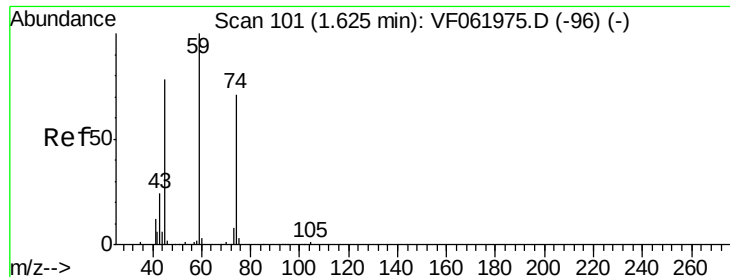
200

100

0

Time-->

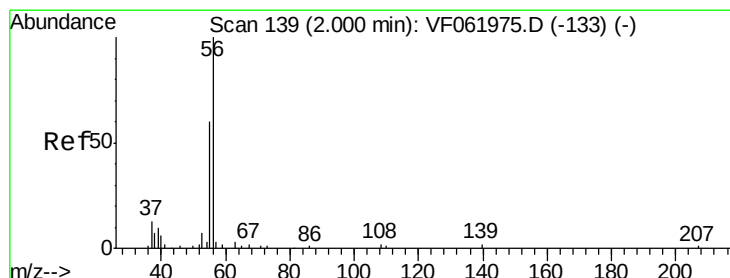
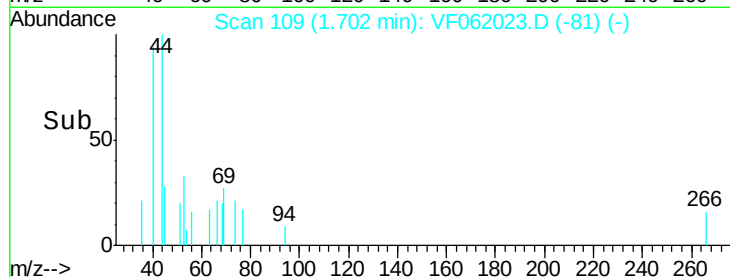
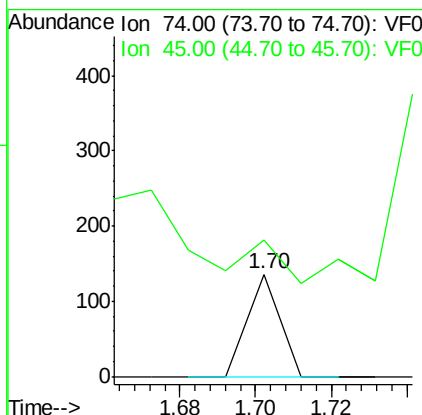
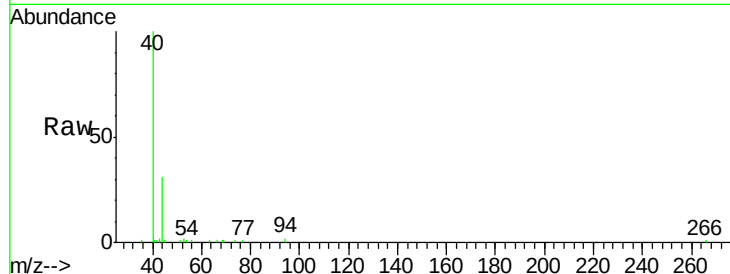




#8
Diethyl Ether
Concen: 1.045 ug/l
RT: 1.70 min Scan# 109
Delta R.T. 0.08 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

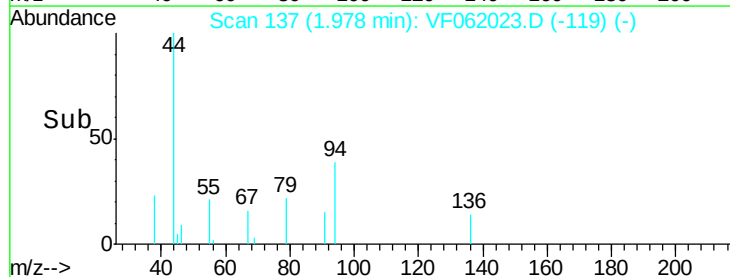
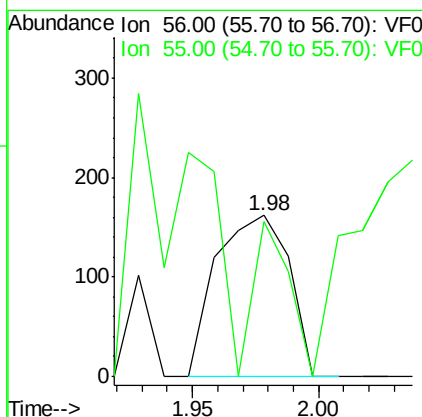
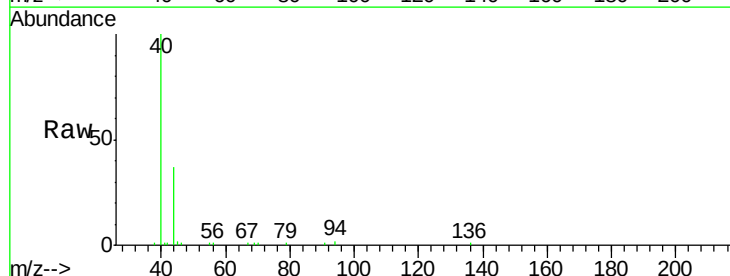
Instrument :
MSVOA_F
ClientSampleId :

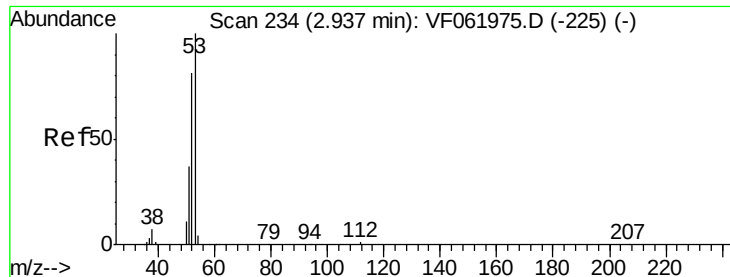
Tot Ion: 74 Resp: 80
Ion Ratio Lower Upper
74 100
45 133.1 56.3 168.8



#13
Acrolein
Concen: 27.543 ug/l
RT: 1.98 min Scan# 137
Delta R.T. -0.02 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

Tgt Ion: 56 Resp: 325
Ion Ratio Lower Upper
56 100
55 96.3 49.1 73.7#





#15

Acrylonitrile

Concen: 2.768 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Instrument :

MSVOA_F

ClientSampled :

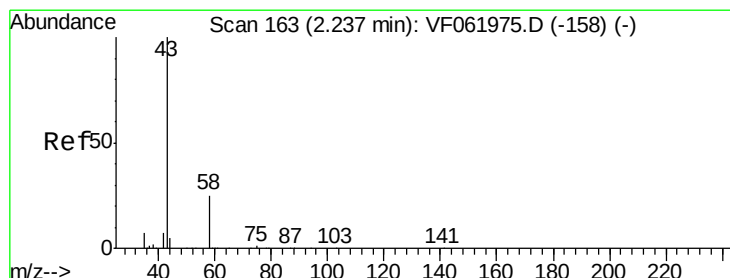
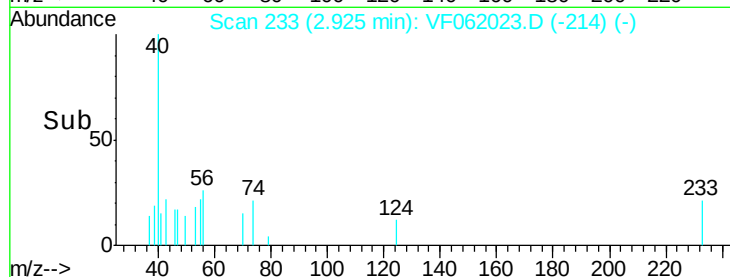
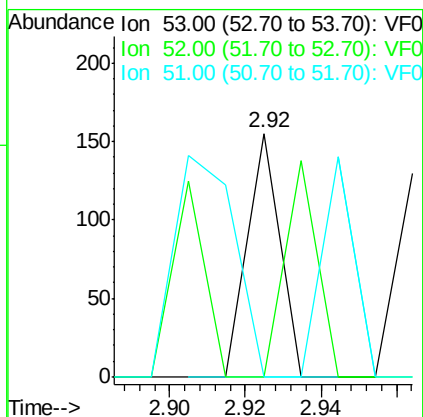
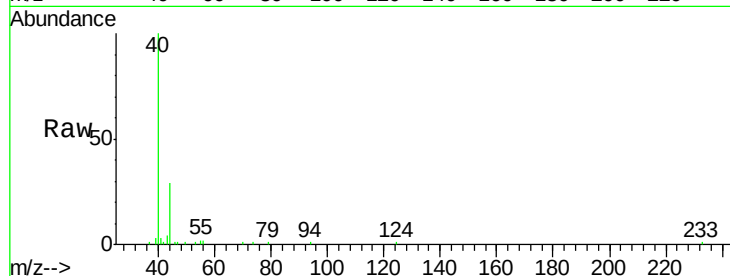
Tot Ion: 53 Resp: 92

Ion Ratio Lower Upper

53 100

52 0.0 64.4 96.6#

51 0.0 30.3 45.5#



#16

Acetone

Concen: 38.468 ug/l

RT: 2.21 min Scan# 161

Delta R.T. -0.02 min

Lab File: VF062023.D

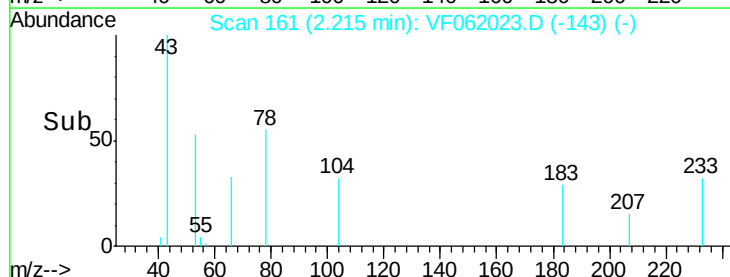
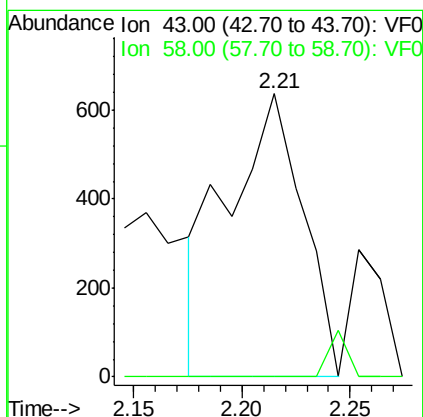
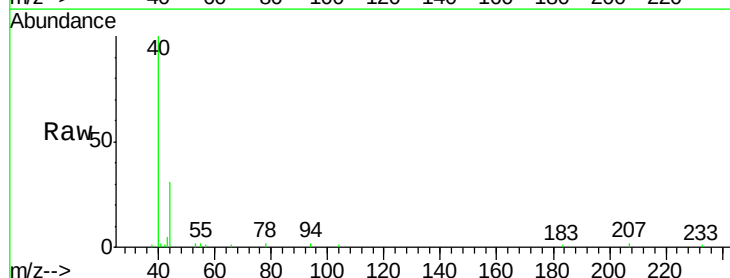
Acq: 19 Mar 2019 17:47

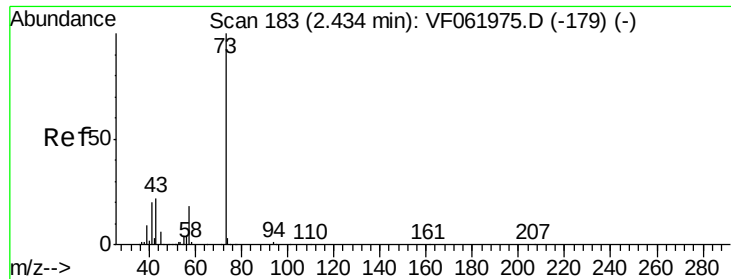
Tgt Ion: 43 Resp: 1543

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#

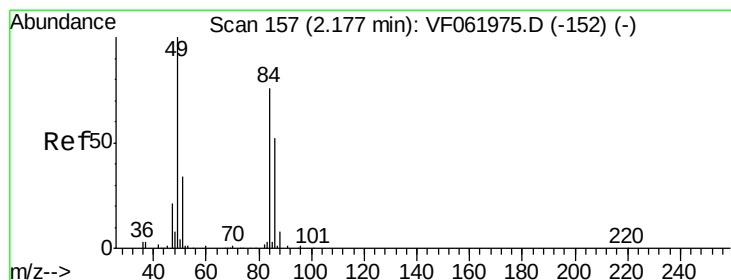
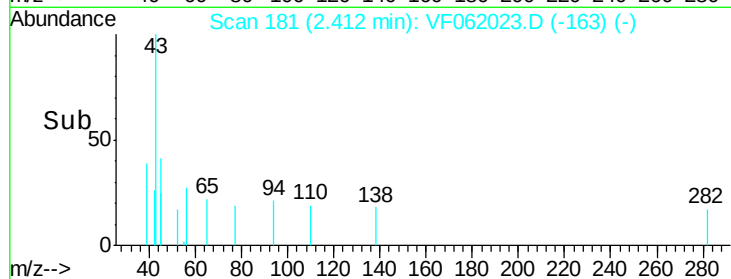
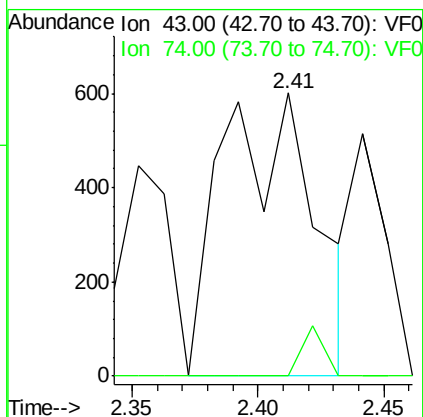
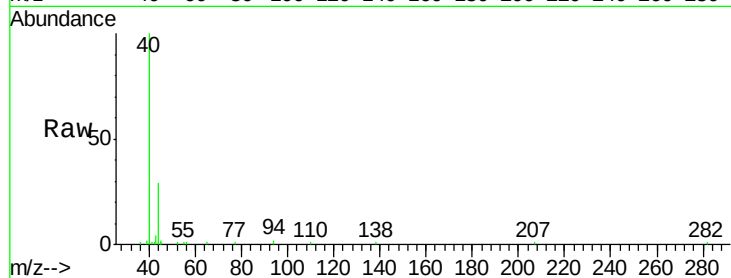




#18
Methyl Acetate
Concen: 18.669 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

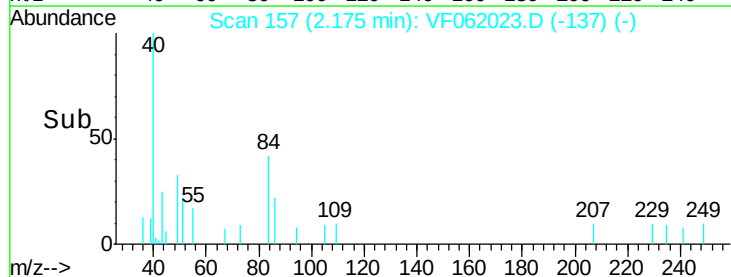
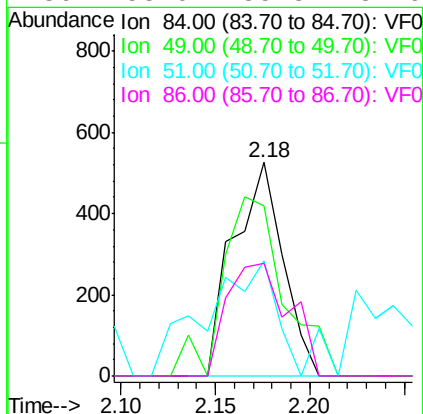
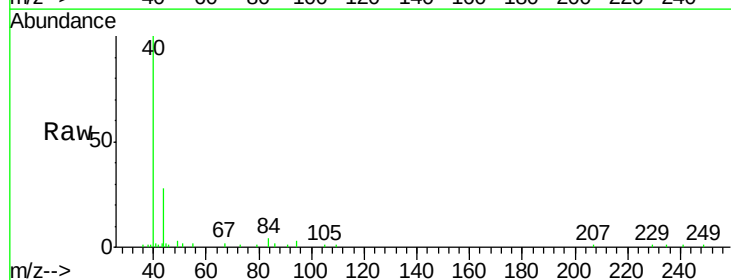
Instrument :
MSVOA_F
ClientSampleId :

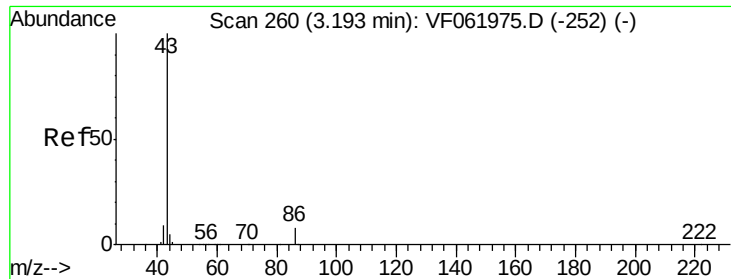
Tot Ion: 43 Resp: 1532
Ion Ratio Lower Upper
43 100
74 0.0 12.6 18.8#



#20
Methylene Chloride
Concen: 4.629 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

Tgt Ion: 84 Resp: 956
Ion Ratio Lower Upper
84 100
49 79.7 107.0 160.6#
51 53.8 37.2 55.8
86 53.0 55.3 82.9#





#23

Vinyl Acetate

Concen: 1.838 ug/l

RT: 3.21 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Instrument :

MSVOA_F

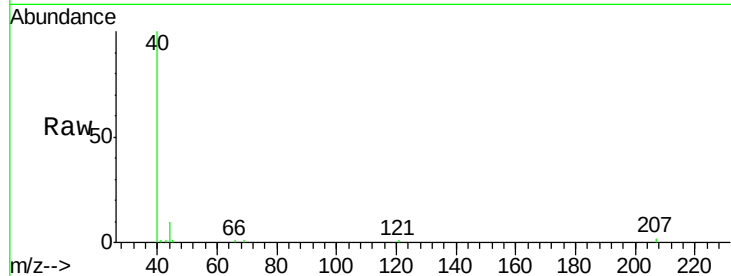
ClientSampled :

Tot Ion: 43 Resp: 466

Ion Ratio Lower Upper

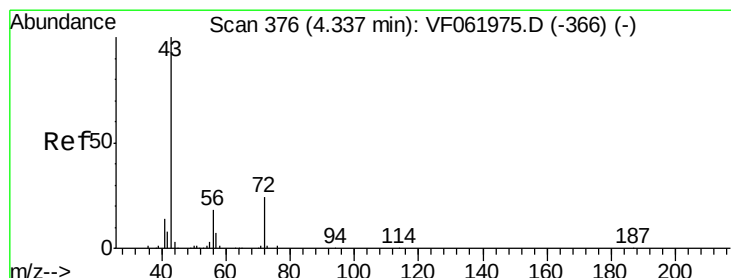
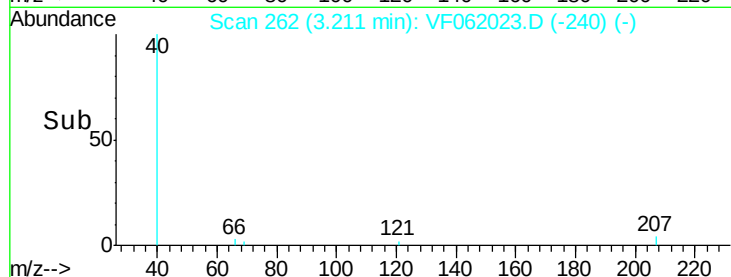
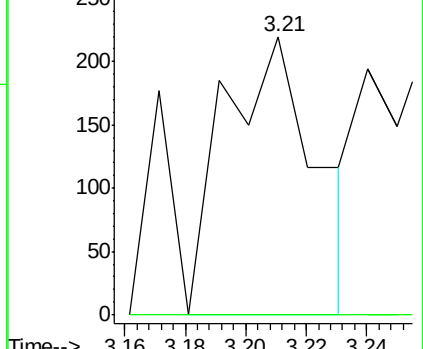
43 100

86 0.0 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 1.636 ug/l

RT: 4.34 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF062023.D

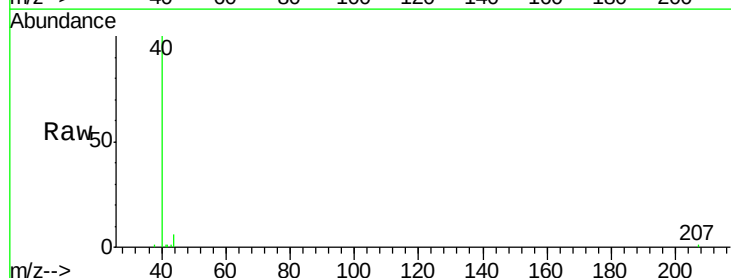
Acq: 19 Mar 2019 17:47

Tgt Ion: 43 Resp: 130

Ion Ratio Lower Upper

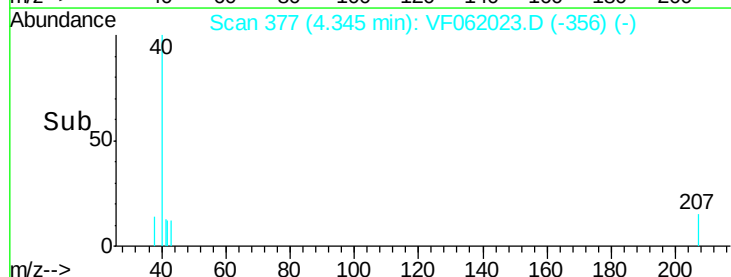
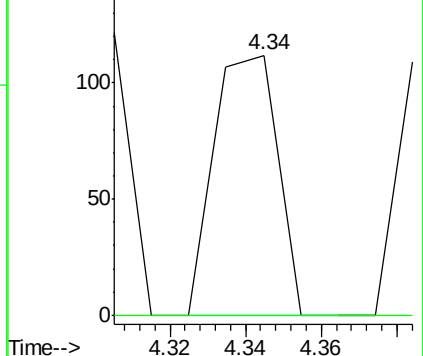
43 100

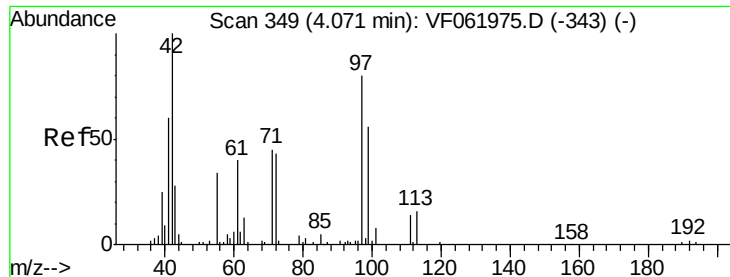
72 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 4.371 ug/l

RT: 4.04 min Scan# 346

Delta R.T. -0.03 min

Lab File: VF062023.D

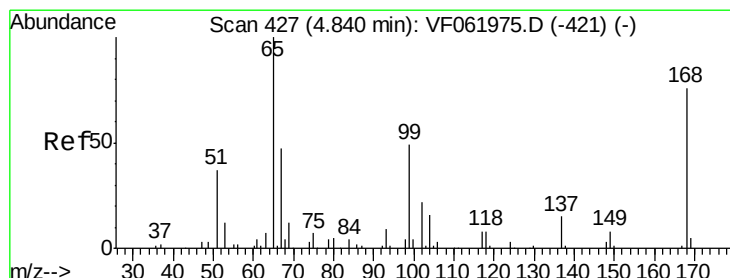
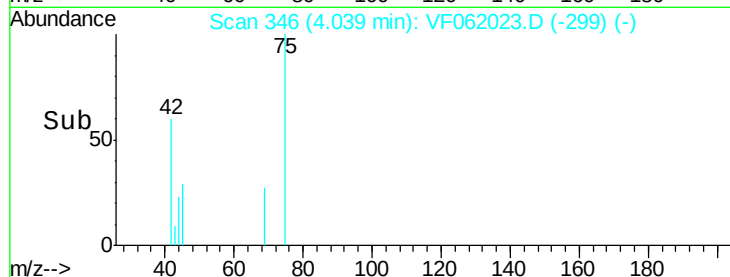
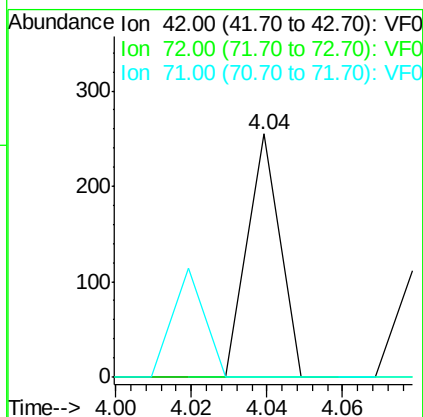
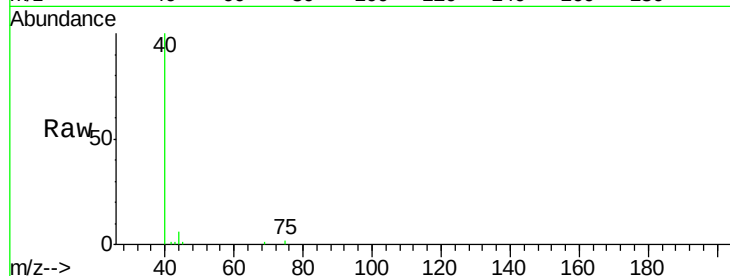
Acq: 19 Mar 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	42	Resp:	151
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.0	51.0#
71	44.4	34.2	51.4



#33

1,2-Dichloroethane-d4

Concen: 19.767 ug/l

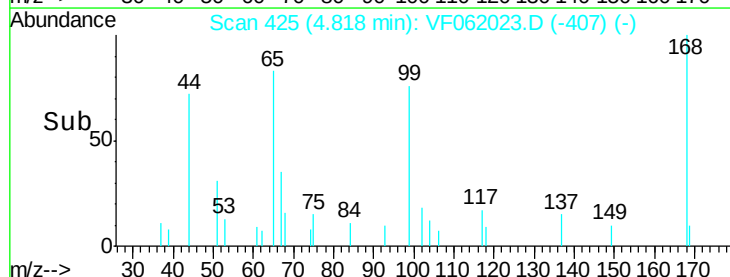
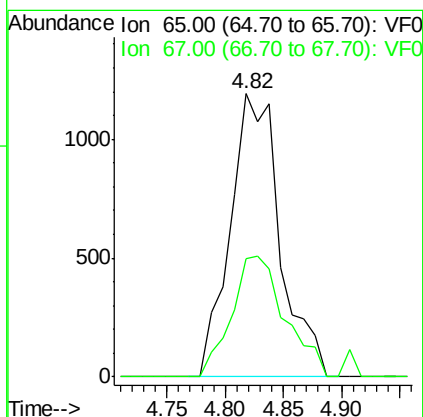
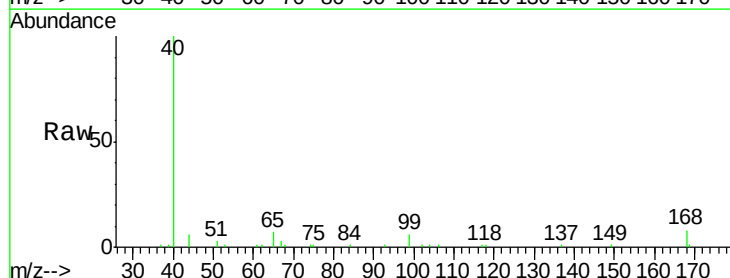
RT: 4.82 min Scan# 425

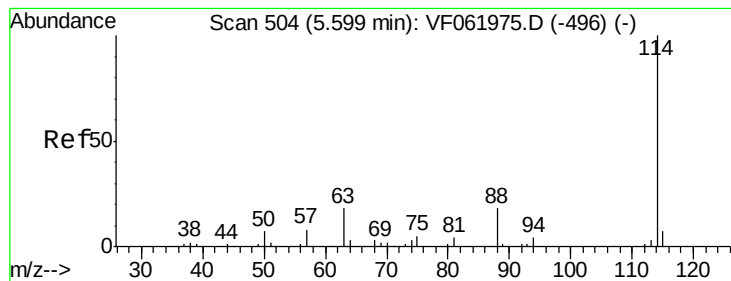
Delta R.T. -0.02 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Tgt Ion:	65	Resp:	3531
Ion	Ratio	Lower	Upper
65	100		
67	41.6	0.0	109.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

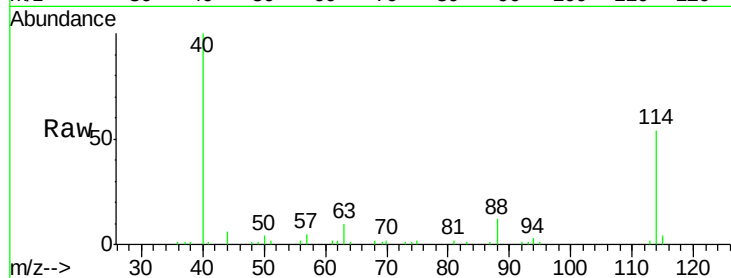
Tot Ion:114 Resp: 28412

Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.4

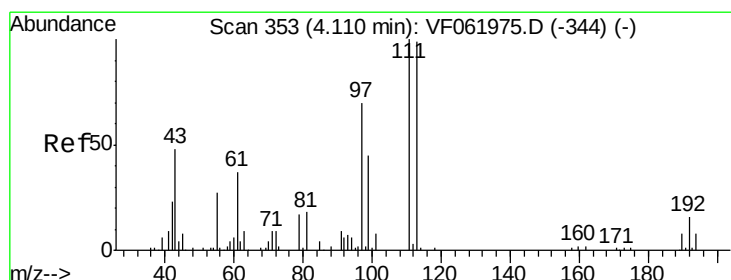
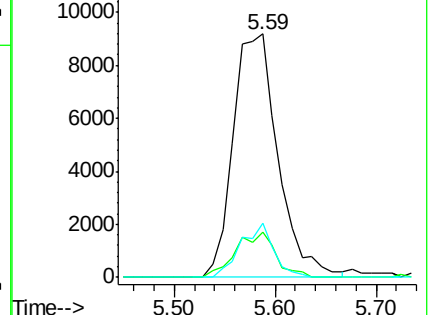
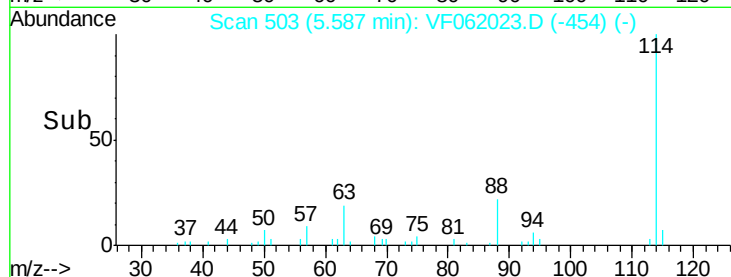
88 22.2 0.0 36.4



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: 36.050 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

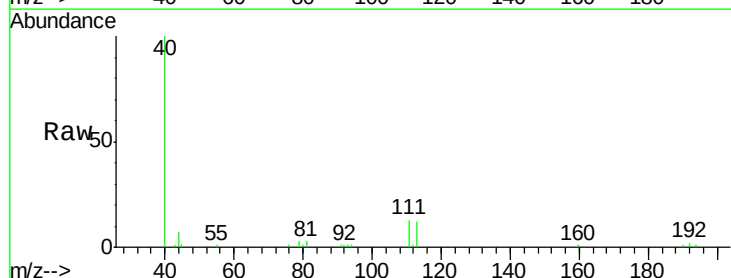
Tgt Ion:113 Resp: 6878

Ion Ratio Lower Upper

113 100

111 108.0 80.8 121.2

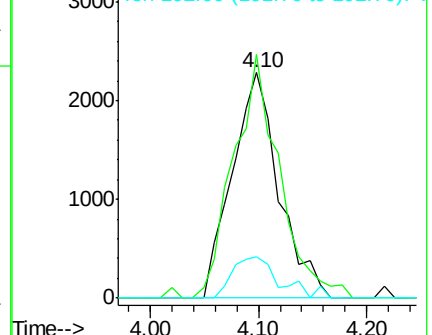
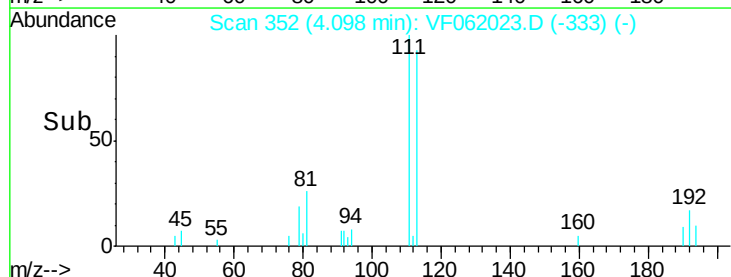
192 18.4 13.0 19.6

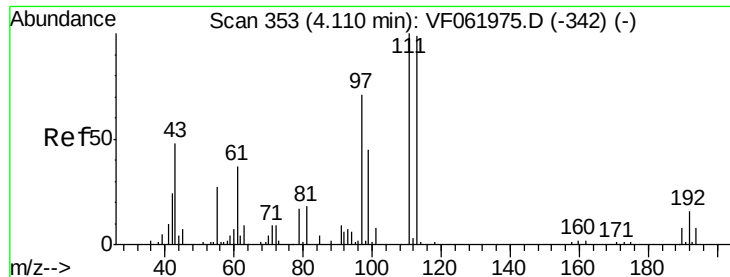


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 4.114 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Instrument :
MSVOA_F
ClientSampled :

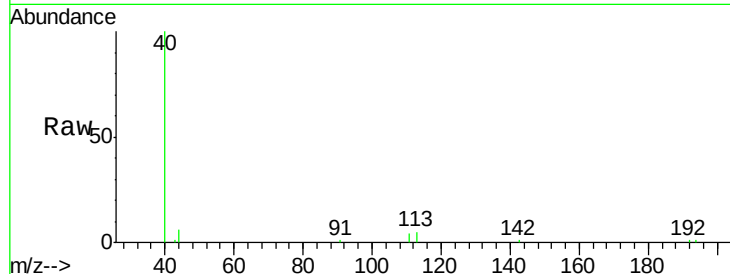
Tot Ion: 43 Resp: 474

Ion Ratio Lower Upper

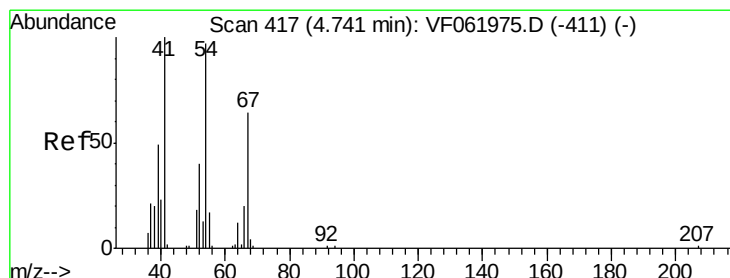
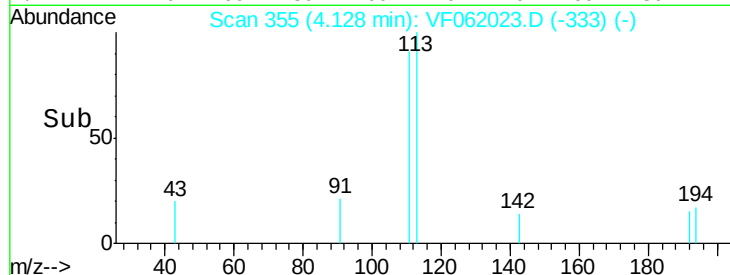
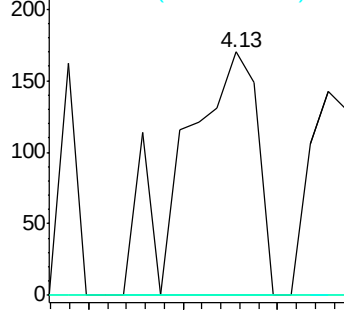
43 100

61 0.0 59.8 89.6#

70 0.0 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#41

Methacrylonitrile

Concen: 1.137 ug/l

RT: 4.78 min Scan# 421

Delta R.T. 0.04 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Tgt Ion: 41 Resp: 70

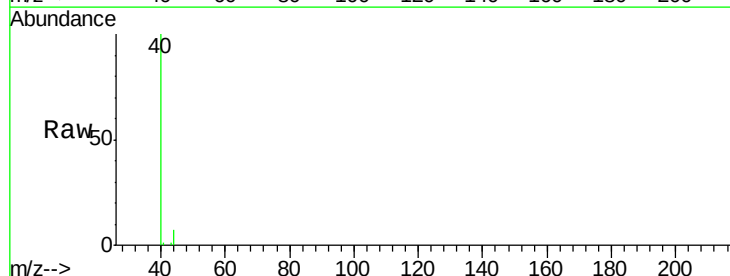
Ion Ratio Lower Upper

41 100

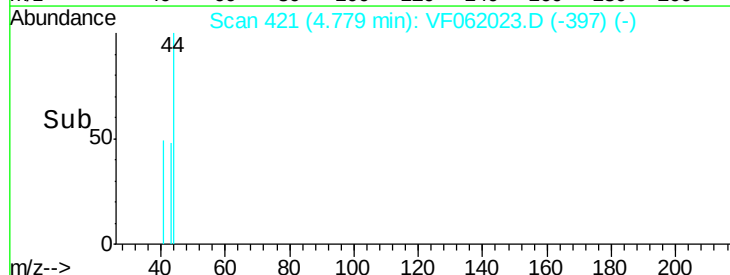
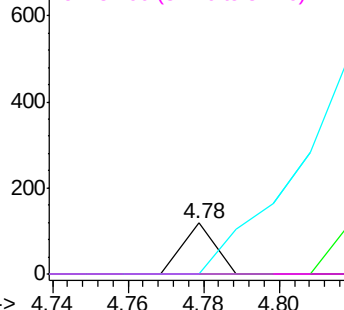
39 0.0 46.2 69.4#

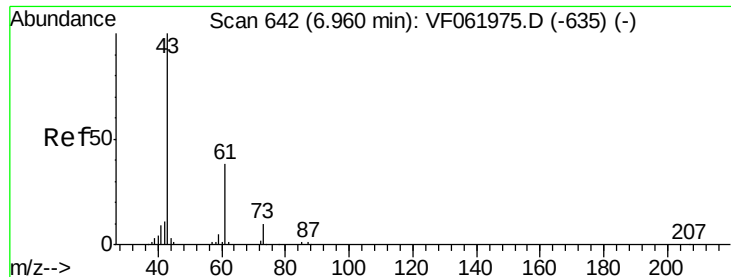
67 0.0 49.8 74.8#

52 0.0 42.7 64.1#



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





#43

Isopropyl Acetate

Concen: 1.438 ug/l

RT: 6.98 min Scan# 644

Delta R.T. 0.02 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Instrument :

MSVOA_F

ClientSampled :

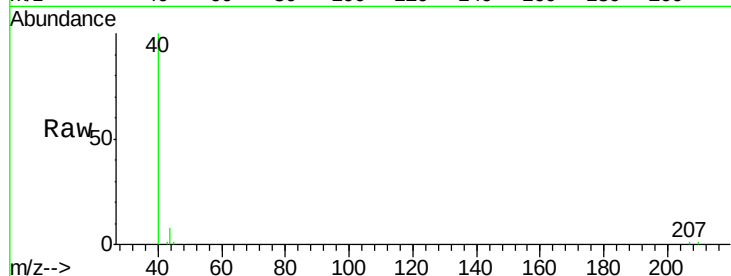
Tot Ion: 43 Resp: 196

Ion Ratio Lower Upper

43 100

61 0.0 30.1 45.1#

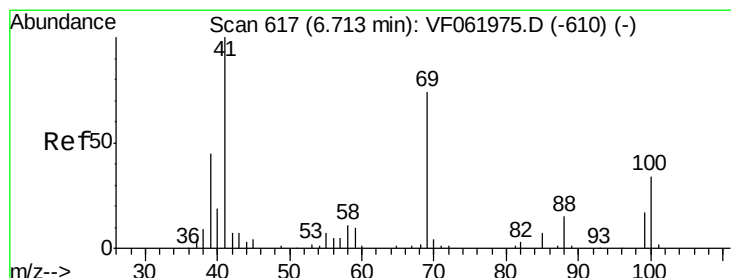
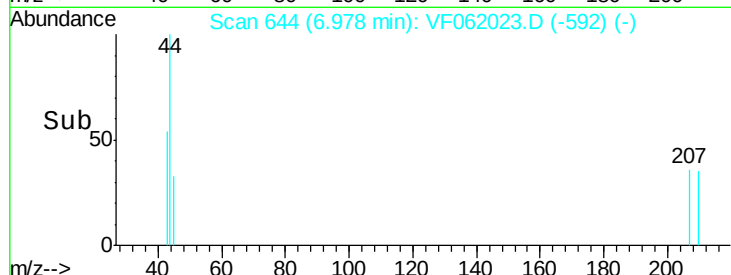
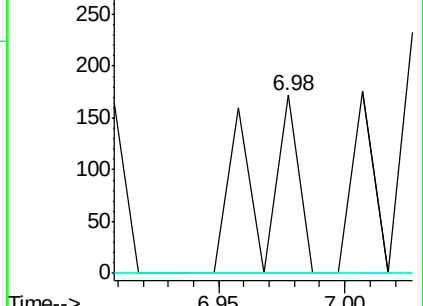
87 0.0 0.4 0.6#



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



#48

Methyl methacrylate

Concen: 3.201 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

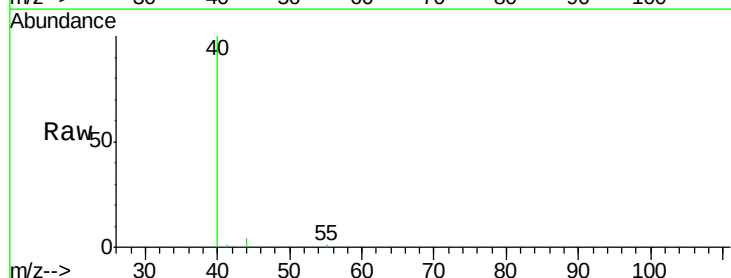
Tgt Ion: 41 Resp: 282

Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.6#

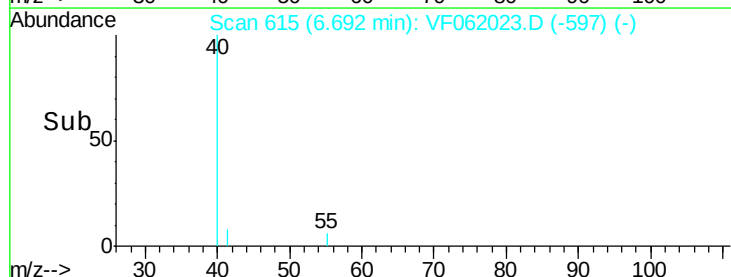
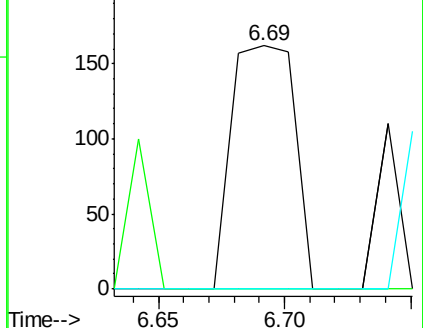
39 0.0 35.6 53.4#

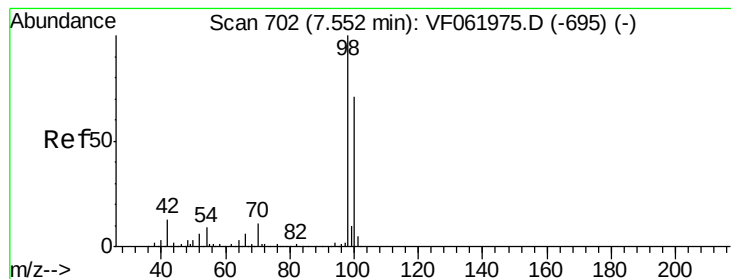


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 44.067 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF062023.D

Acq: 19 Mar 2019 17:47

Instrument :

MSVOA_F

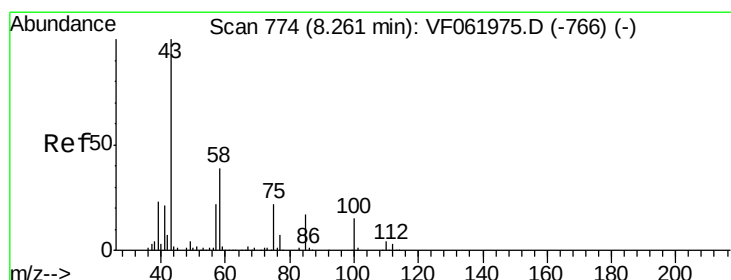
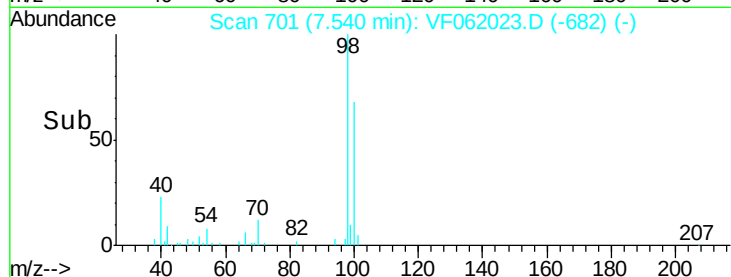
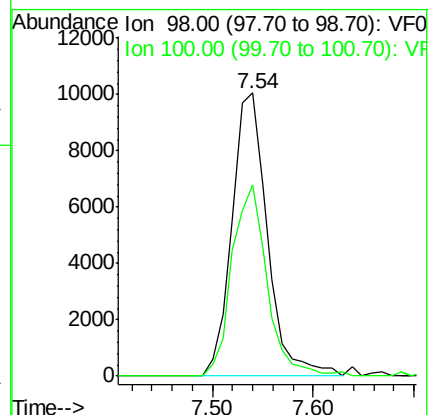
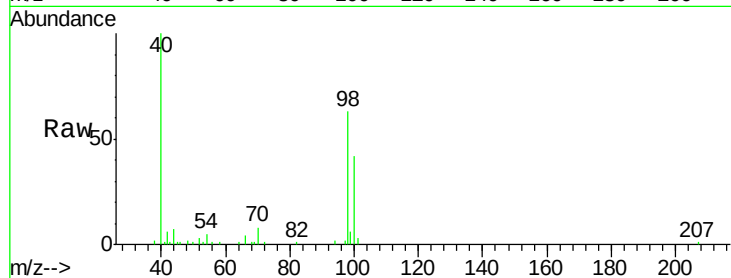
ClientSampleId :

Tot Ion: 98 Resp: 24578

Ion Ratio Lower Upper

98 100

100 67.5 56.8 85.2



#51

4-Methyl-2-Pentanone

Concen: 3.978 ug/l

RT: 8.20 min Scan# 768

Delta R.T. -0.06 min

Lab File: VF062023.D

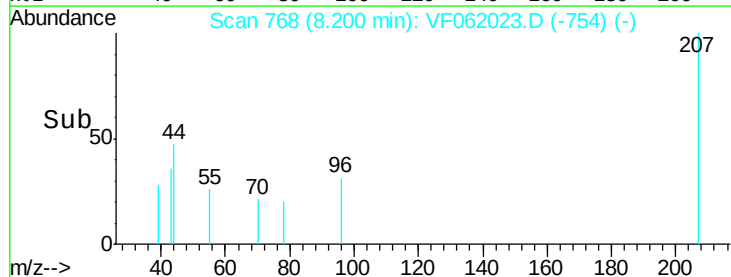
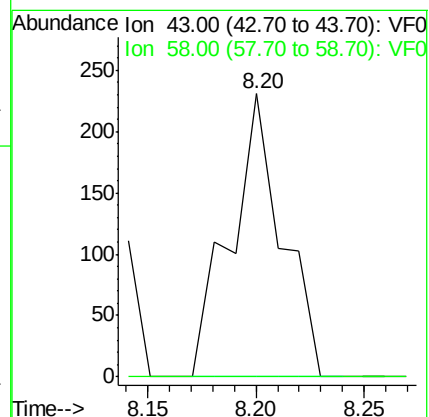
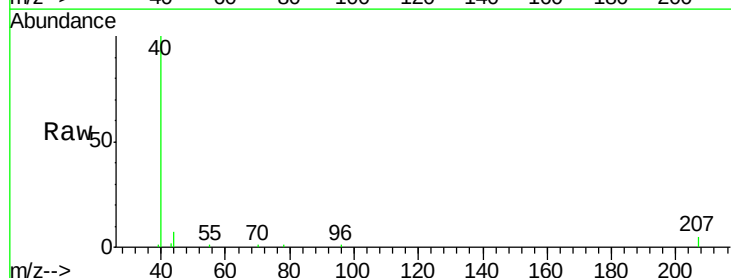
Acq: 19 Mar 2019 17:47

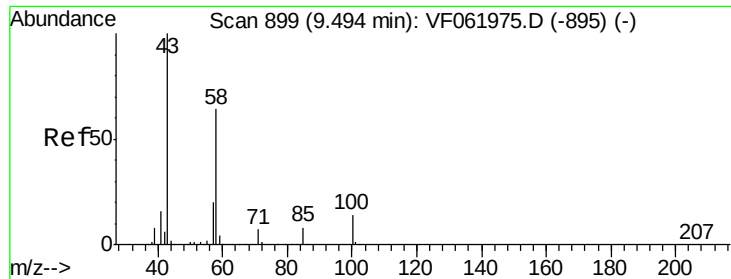
Tgt Ion: 43 Resp: 385

Ion Ratio Lower Upper

43 100

58 0.0 31.1 46.7#

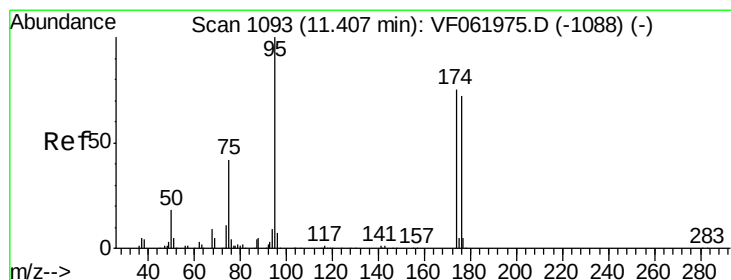
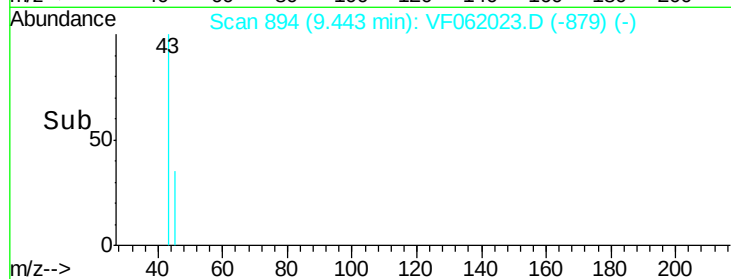
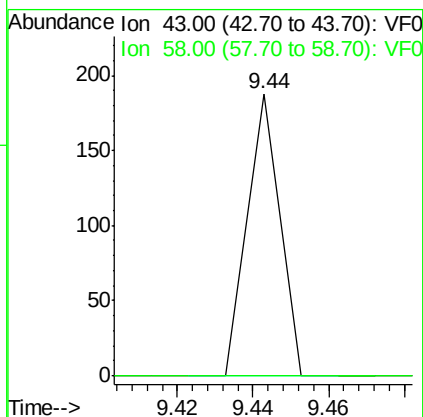
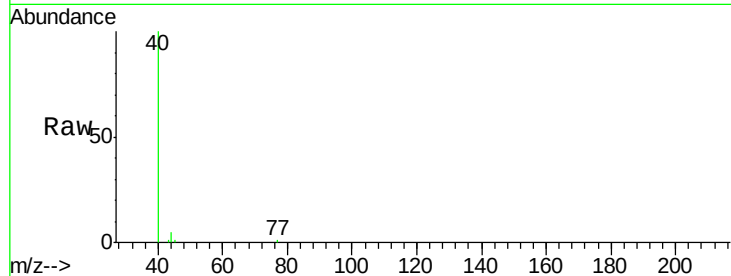




#59
2-Hexanone
Concen: 1.585 ug/l
RT: 9.44 min Scan# 894
Delta R.T. -0.05 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

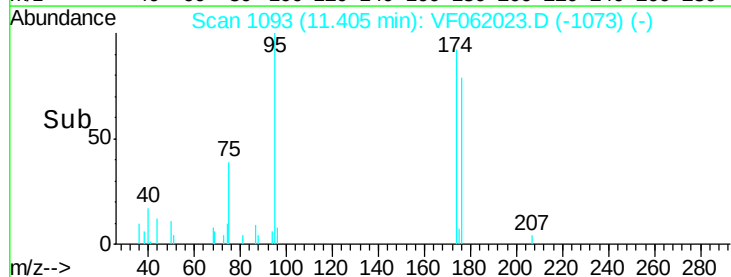
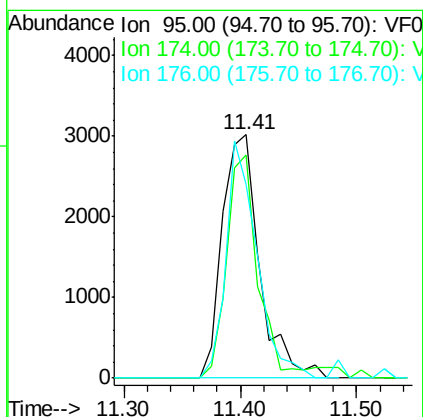
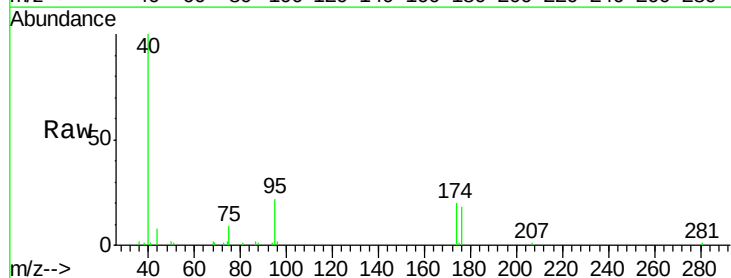
Instrument :
MSVOA_F
ClientSampleId :

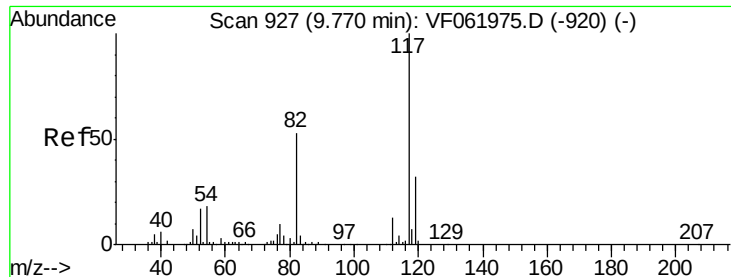
Tot Ion: 43 Resp: 111
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.2#



#62
4-Bromofluorobenzene
Concen: 30.352 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

Tgt Ion: 95 Resp: 6725
Ion Ratio Lower Upper
95 100
174 91.7 0.0 149.4
176 79.4 0.0 143.4

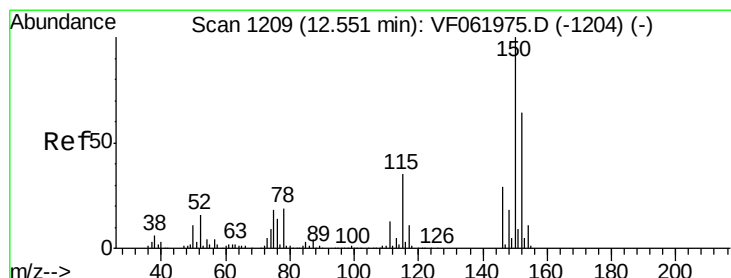
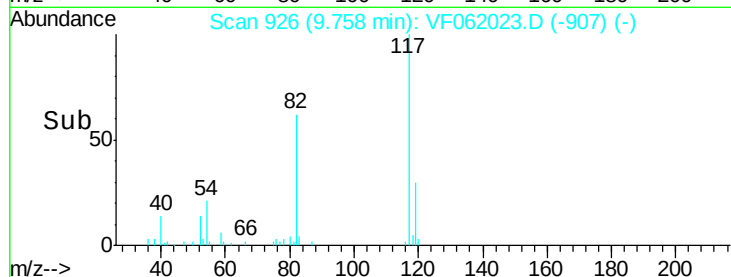
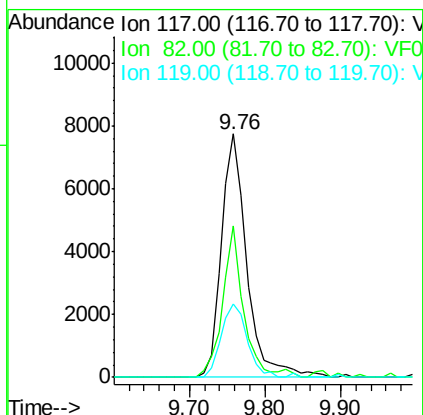
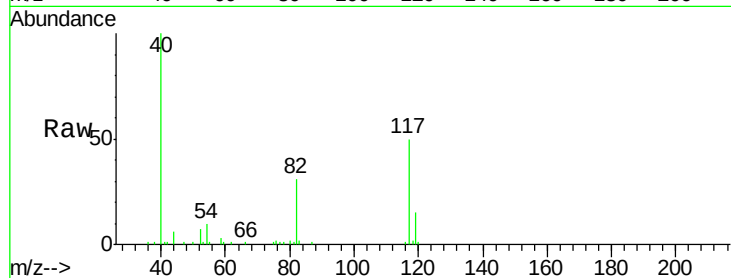




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 18061
Ion Ratio Lower Upper
117 100
82 62.4 42.5 63.7
119 30.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF062023.D
Acq: 19 Mar 2019 17:47

Tgt Ion:152 Resp: 6925
Ion Ratio Lower Upper
152 100
115 53.8 27.3 81.9
150 146.3 0.0 316.2

