

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100318\
 Data File : VF060423.D
 Acq On : 3 Oct 2018 19:13
 Operator : VA/AP
 Sample : J5222-01
 Misc : 4.92/5mL/MSVOA F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SS-1

Quant Time: Oct 04 05:23:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	221363	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	401663	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	334281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	179972	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.00	65	186359	53.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.60%	
35) Dibromofluoromethane	4.27	113	189385	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	
50) Toluene-d8	7.69	98	389327	41.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.78%	
62) 4-Bromofluorobenzene	11.49	95	193120	45.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.02%	

Target Compounds

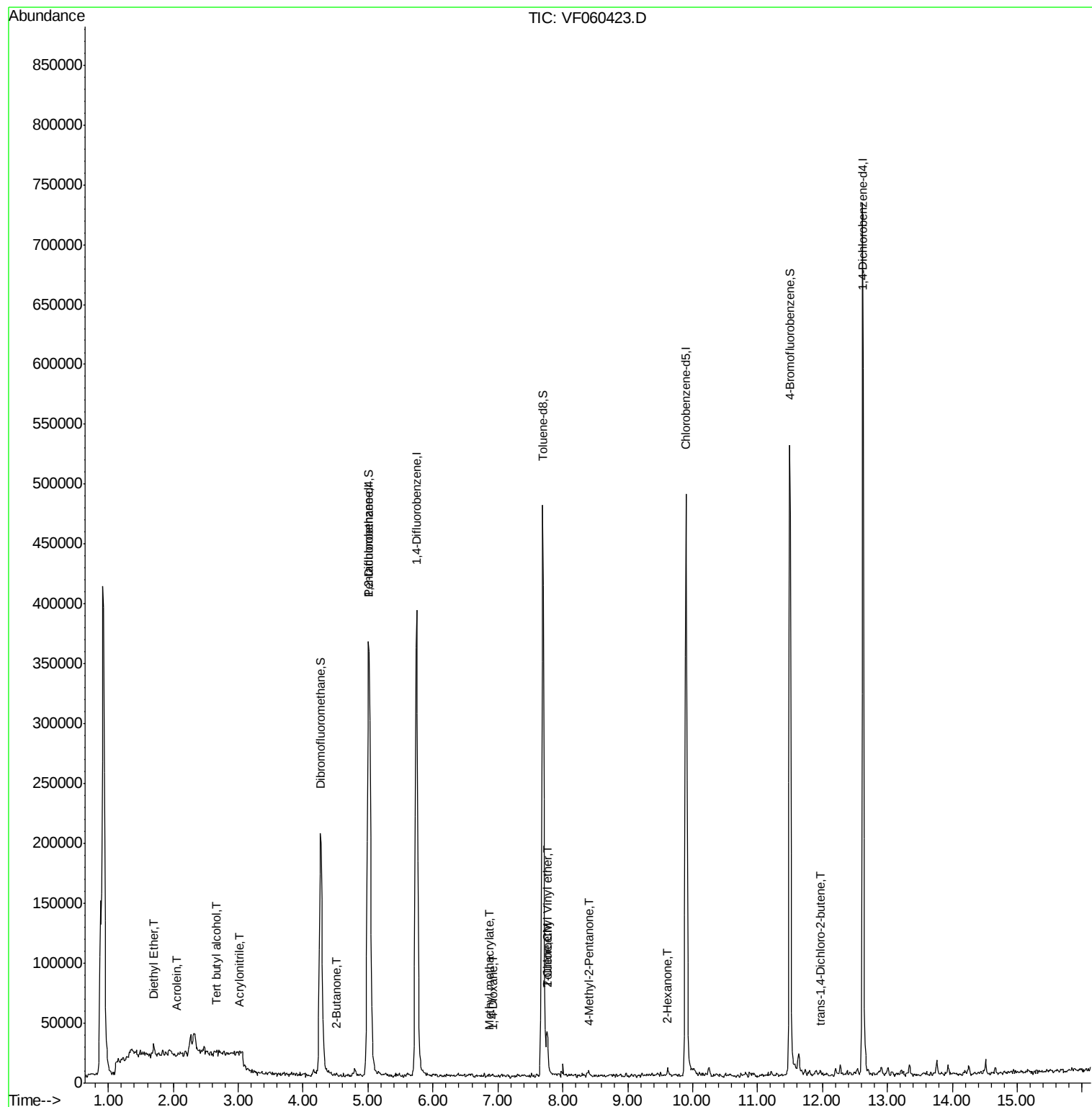
					Qvalue
2) Dichlorodifluoromethane	0.99	85	810	Below Cal	95
8) Diethyl Ether	1.70	74	2852	2.869 ug/l	83
11) Tert butyl alcohol	2.67	59	1630	7.780 ug/l #	23
13) Acrolein	2.05	56	533	3.163 ug/l	85
15) Acrylonitrile	3.04	53	690	1.922 ug/l #	50
16) Acetone	2.34	43	7927	Below Cal	95
18) Methyl Acetate	2.44	43	2026	Below Cal #	71
20) Methylene Chloride	2.26	84	6437	Below Cal	91
25) 2-Butanone	4.53	43	2019	2.251 ug/l #	60
29) Tetrahydrofuran	4.24	42	1179	Below Cal #	59
48) Methyl methacrylate	6.88	41	1688	1.026 ug/l #	27
49) 1,4-Dioxane	6.91	88	61	4.301 ug/l #	25
51) 4-Methyl-2-Pentanone	8.39	43	3424	2.099 ug/l	95
52) Toluene	7.76	92	16294	2.440 ug/l	76
58) 2-Chloroethyl Vinyl ether	7.75	63	2952	12.016 ug/l	100
59) 2-Hexanone	9.61	43	3816	3.189 ug/l	85
81) trans-1,4-Dichloro-2-buten	11.97	75	1092	1.295 ug/l #	24

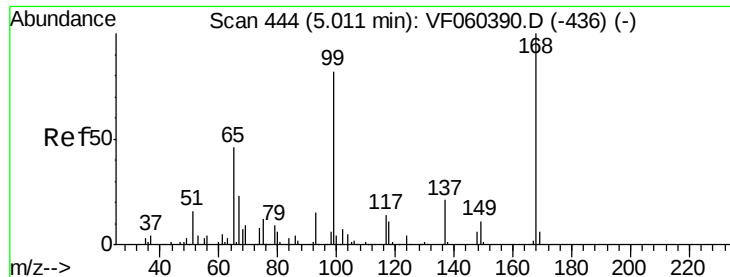
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampled :

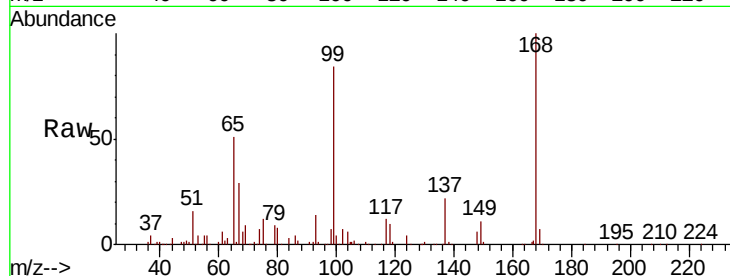
SS-1

Tot Ion:168 Resp: 221363

Ion Ratio Lower Upper

168 100

99 84.2 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

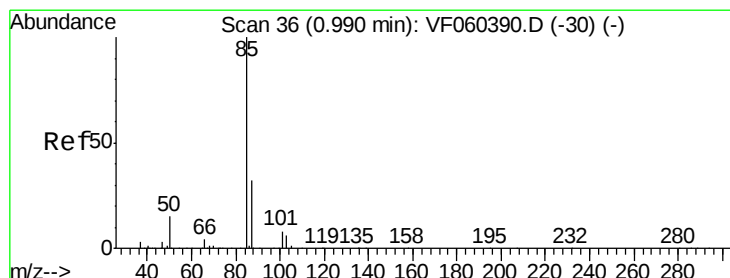
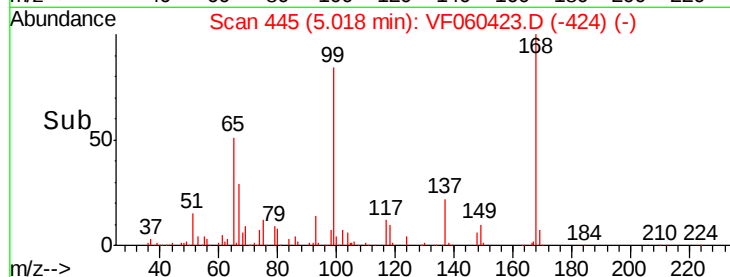
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 36

Delta R.T. -0.00 min

Lab File: VF060423.D

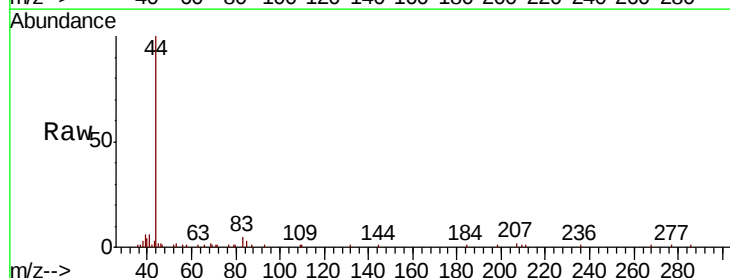
Acq: 3 Oct 2018 19:13

Tgt Ion: 85 Resp: 810

Ion Ratio Lower Upper

85 100

87 28.7 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

400

300

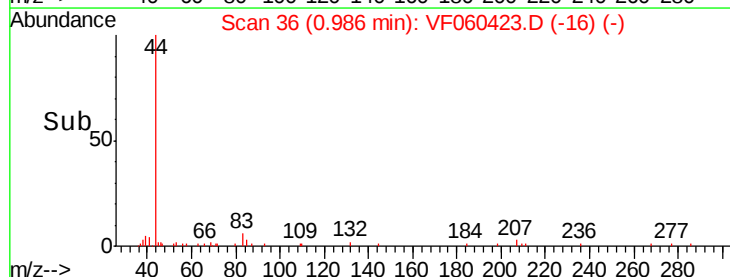
200

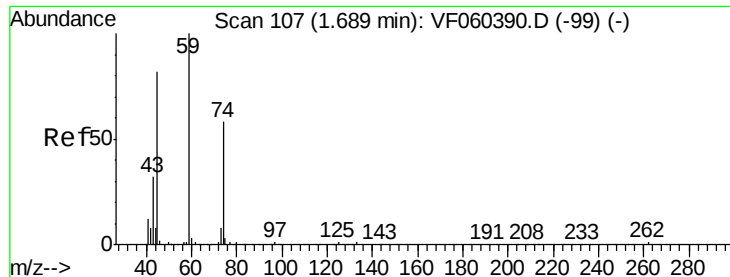
100

0

0.95 1.00 1.05

Time-->





#8

Diethyl Ether

Concen: 2.869 ug/l

RT: 1.70 min Scan# 108

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampled :

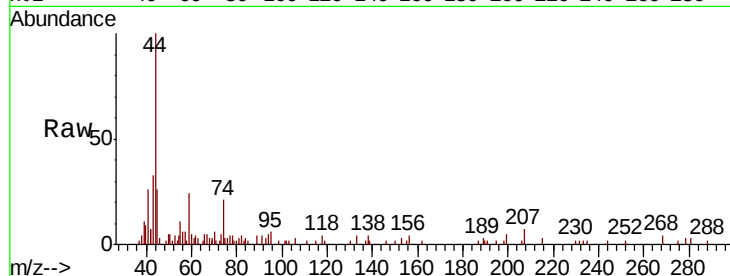
SS-1

Tot Ion: 74 Resp: 2852

Ion Ratio Lower Upper

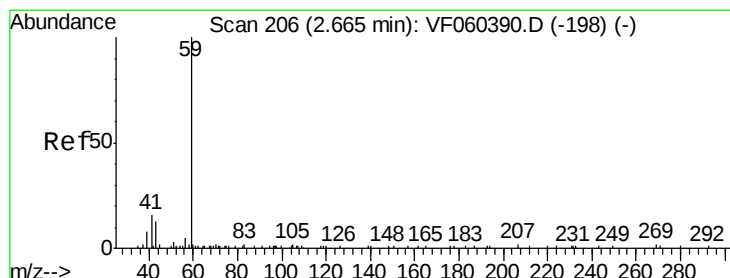
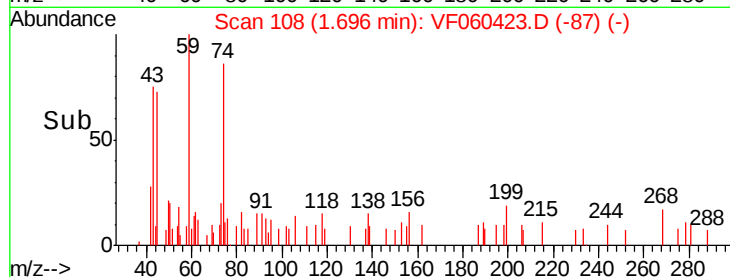
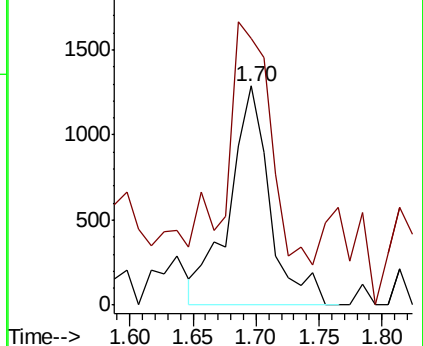
74 100

45 121.9 71.3 213.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 7.780 ug/l

RT: 2.67 min Scan# 207

Delta R.T. 0.01 min

Lab File: VF060423.D

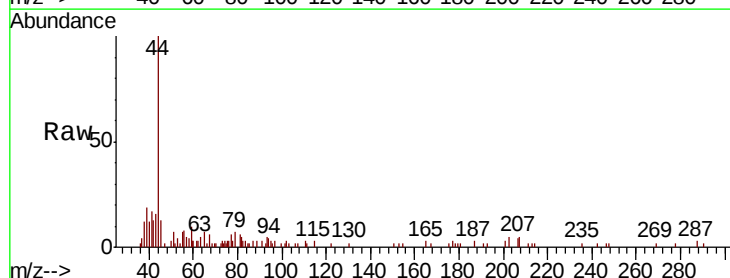
Acq: 3 Oct 2018 19:13

Tgt Ion: 59 Resp: 1630

Ion Ratio Lower Upper

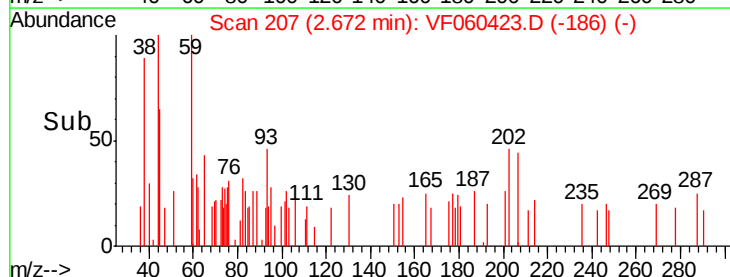
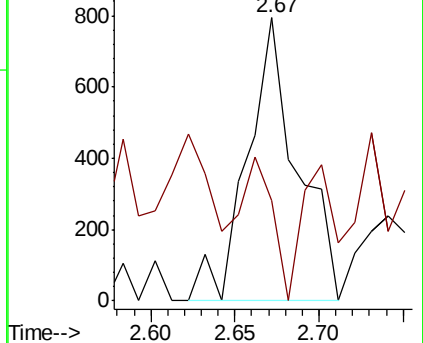
59 100

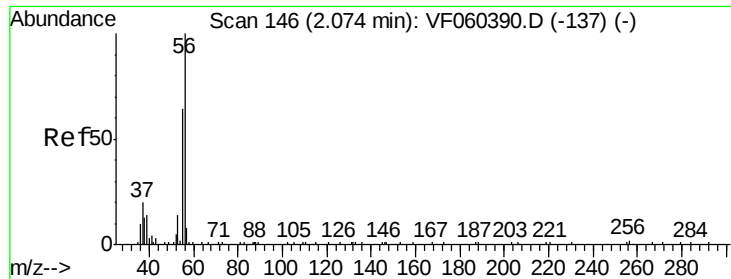
57 35.5 6.5 9.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

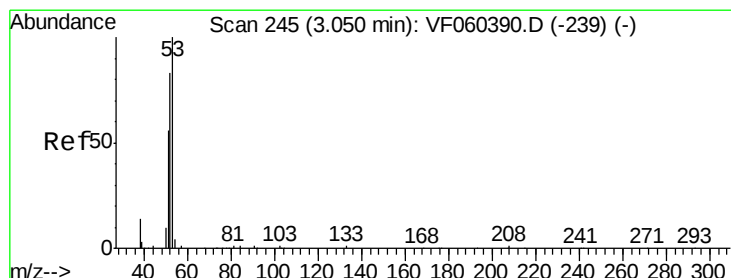
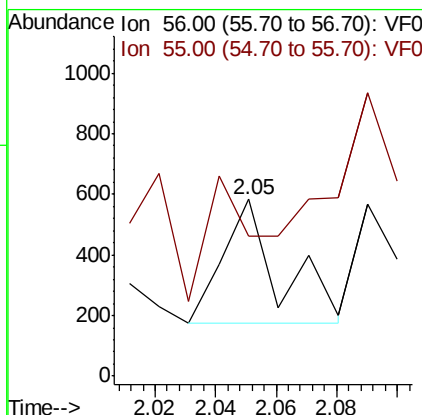
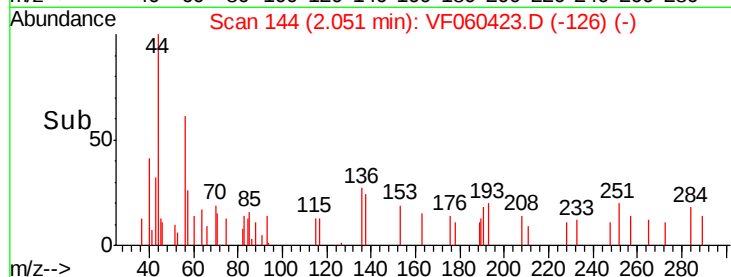
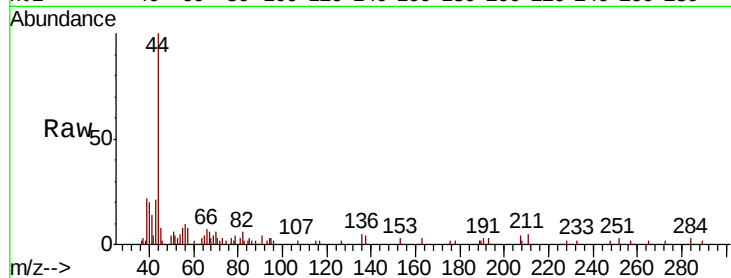




#13
Acrolein
Concen: 3.163 ug/l
RT: 2.05 min Scan# 144
Delta R.T. -0.02 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

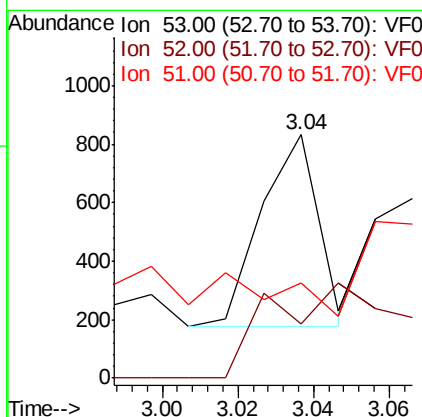
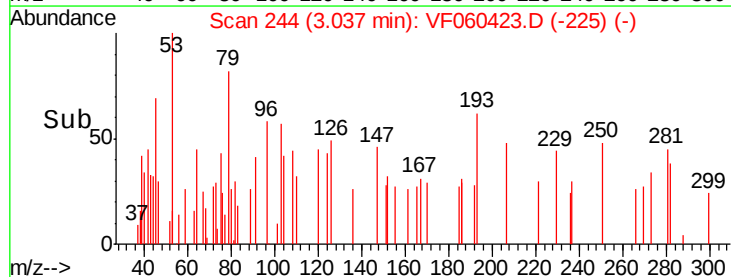
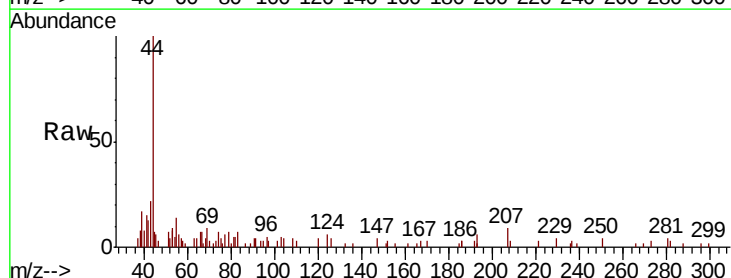
Instrument :
MSVOA_F
ClientSampled :
SS-1

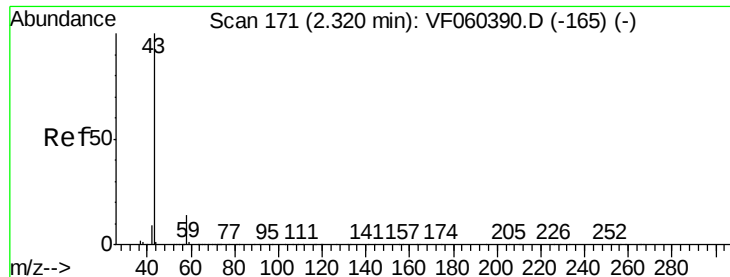
Tot Ion: 56 Resp: 533
Ion Ratio Lower Upper
56 100
55 79.3 53.9 80.9



#15
Acrylonitrile
Concen: 1.922 ug/l
RT: 3.04 min Scan# 244
Delta R.T. -0.01 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

Tgt Ion: 53 Resp: 690
Ion Ratio Lower Upper
53 100
52 22.1 66.0 99.0#
51 39.0 45.6 68.4#





#16

Acetone

Concen: Below Cal

RT: 2.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

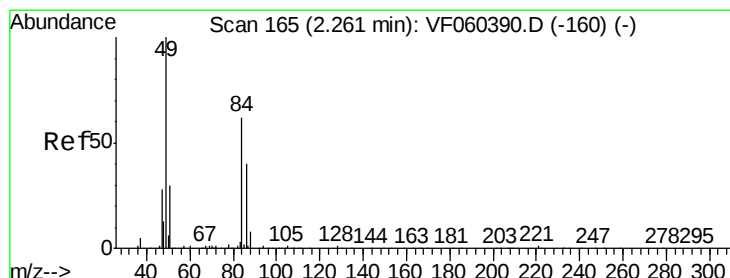
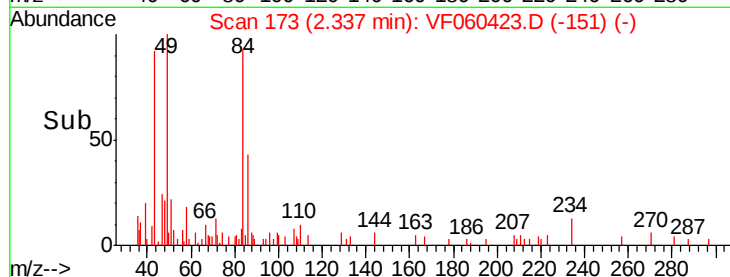
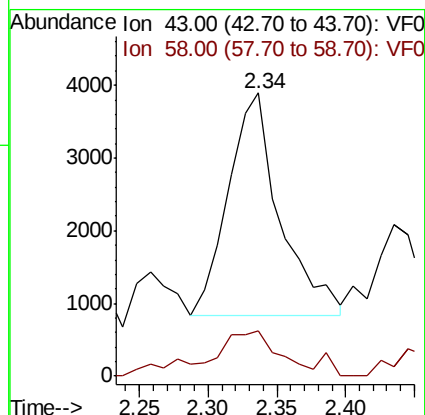
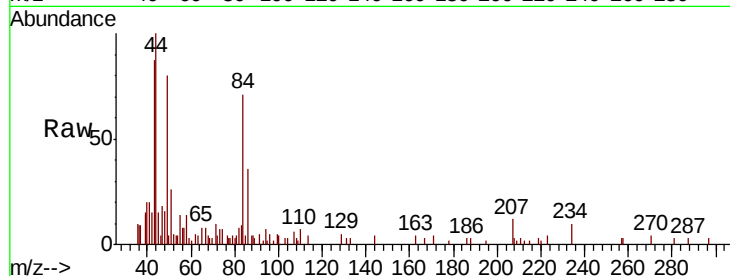
SS-1

Tot Ion: 43 Resp: 7927

Ion Ratio Lower Upper

43 100

58 16.1 11.2 16.8



#20

Methylene Chloride

Concen: Below Cal

RT: 2.26 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Tgt Ion: 84 Resp: 6437

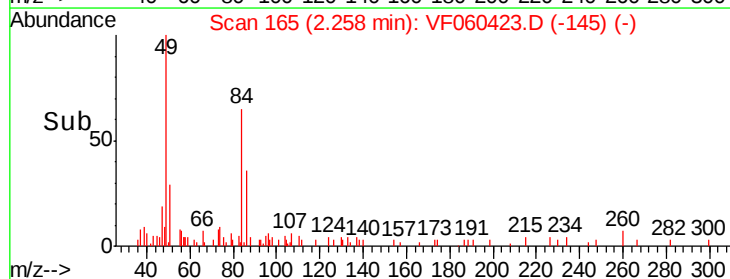
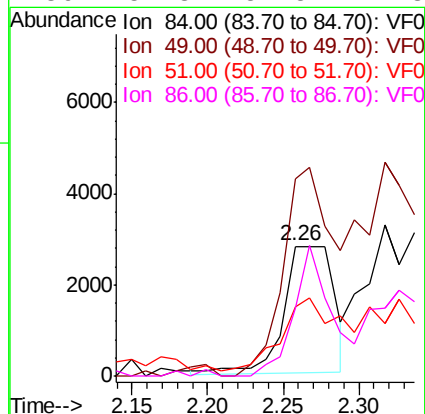
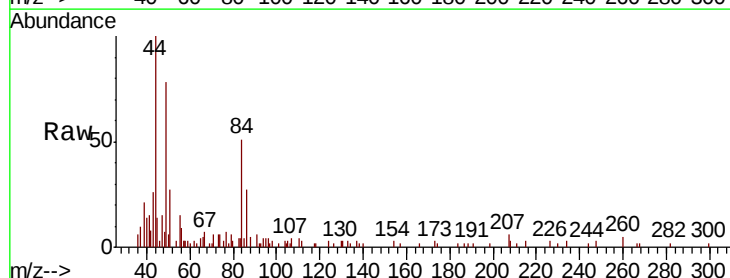
Ion Ratio Lower Upper

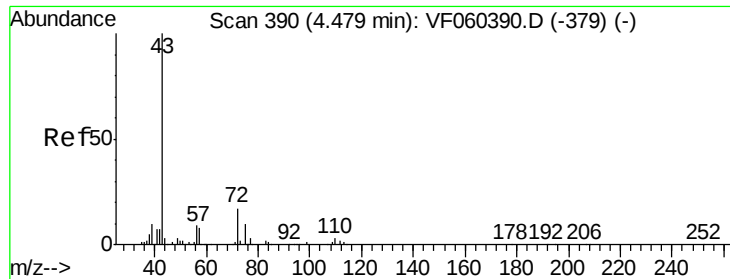
84 100

49 151.4 130.2 195.2

51 53.5 41.0 61.6

86 52.3 51.5 77.3





#25

2-Butanone

Concen: 2.251 ug/l

RT: 4.53 min Scan# 395

Delta R.T. 0.05 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

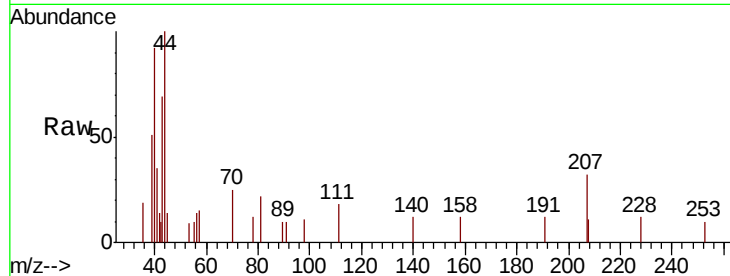
SS-1

Tot Ion: 43 Resp: 2019

Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

800

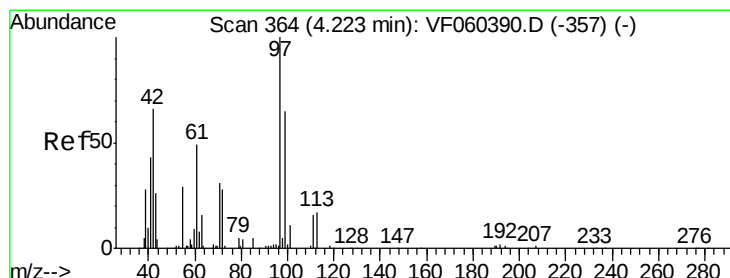
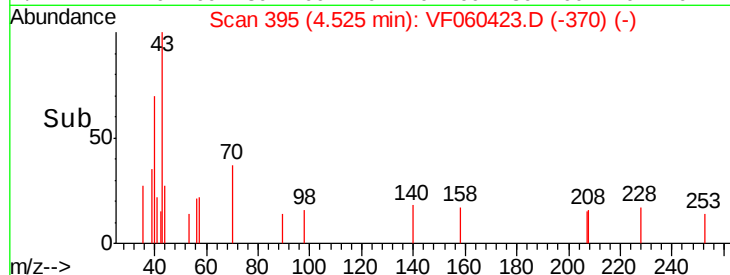
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.24 min Scan# 366

Delta R.T. 0.02 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

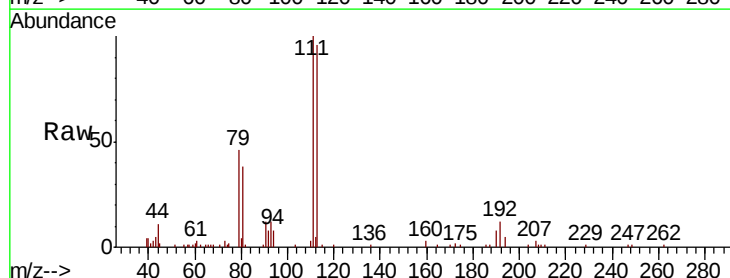
Tgt Ion: 42 Resp: 1179

Ion Ratio Lower Upper

42 100

72 8.3 33.6 50.4#

71 22.8 32.7 49.1#



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

500

400

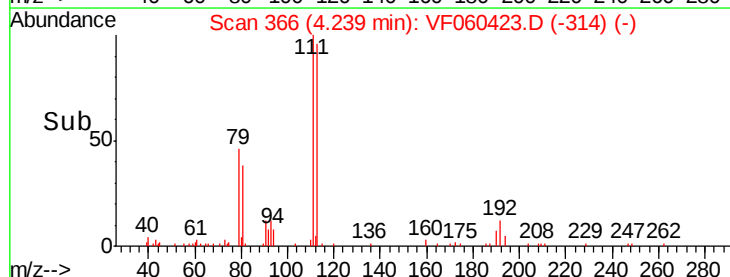
300

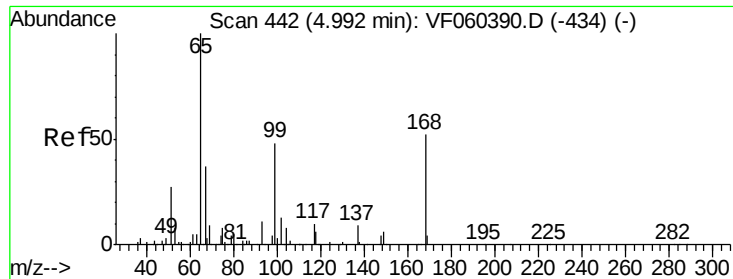
200

100

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 53.802 ug/l

RT: 5.00 min Scan# 443

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampled :

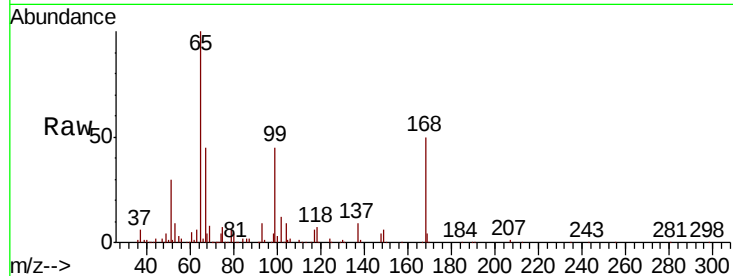
SS-1

Tot Ion: 65 Resp: 186359

Ion Ratio Lower Upper

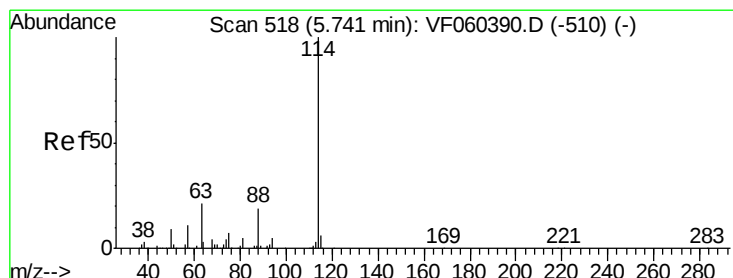
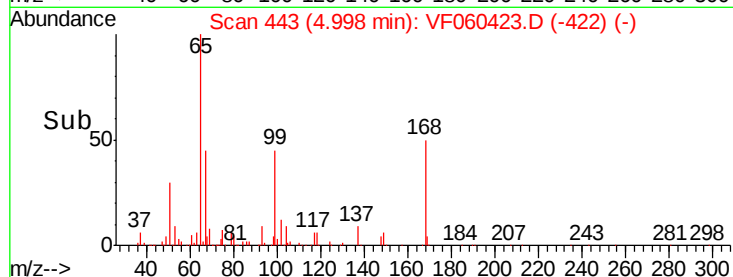
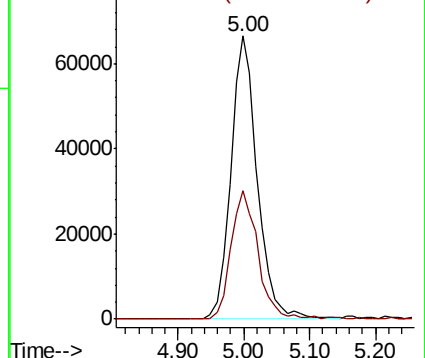
65 100

67 45.2 0.0 89.4



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: 5.75 min Scan# 519

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

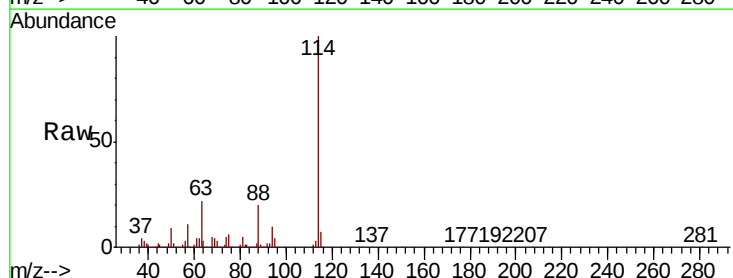
Tgt Ion: 114 Resp: 401663

Ion Ratio Lower Upper

114 100

63 22.5 0.0 42.2

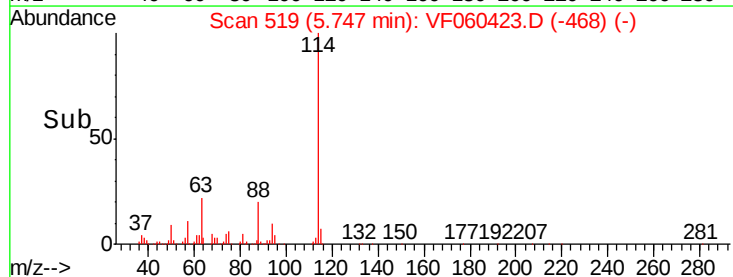
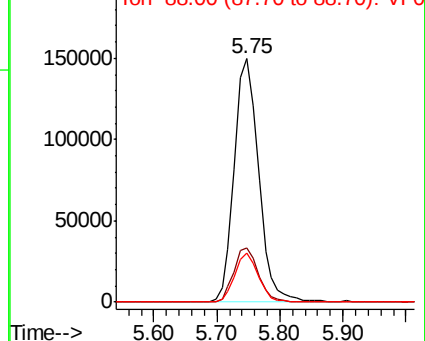
88 20.3 0.0 38.8

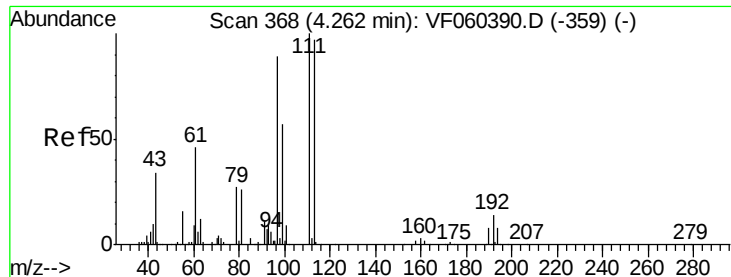


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 50.190 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

SS-1

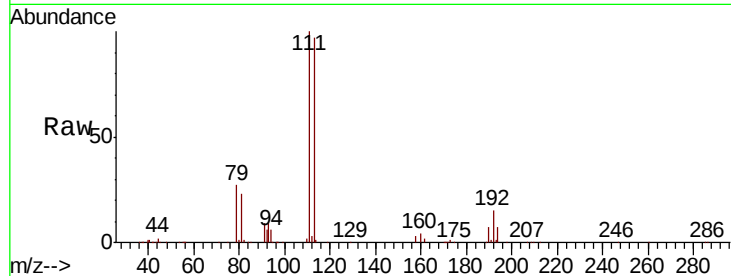
Tot Ion:113 Resp: 189385

Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

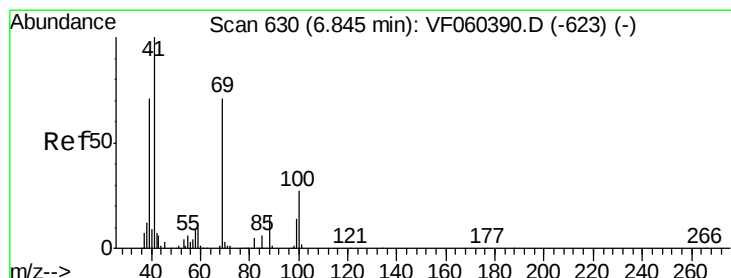
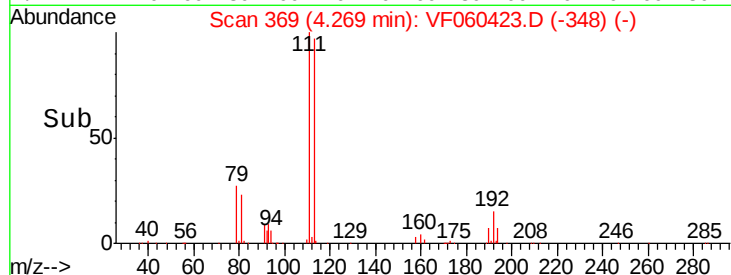
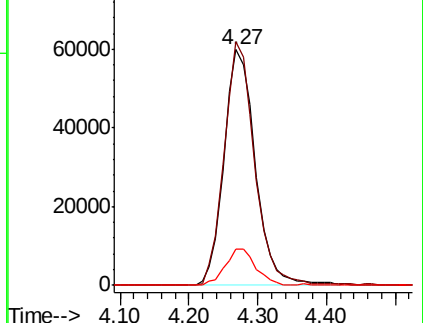
192 15.3 11.8 17.6



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



#48

Methyl methacrylate

Concen: 1.026 ug/l

RT: 6.88 min Scan# 634

Delta R.T. 0.04 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

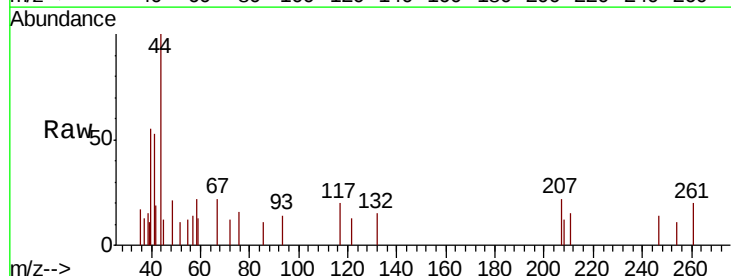
Tgt Ion: 41 Resp: 1688

Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

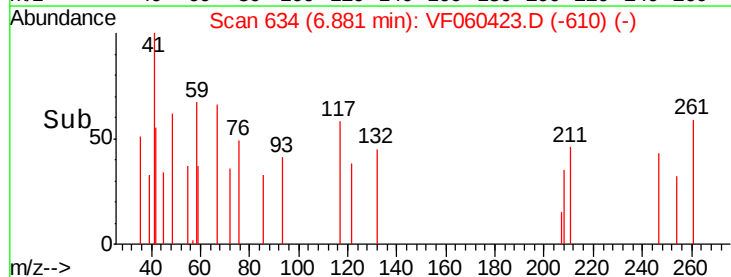
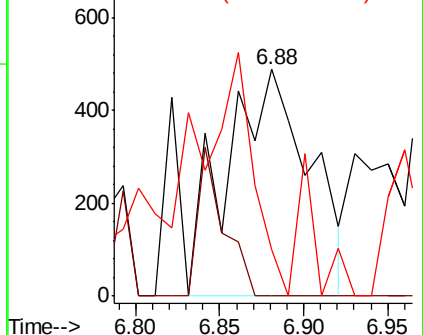
39 20.7 56.9 85.3#

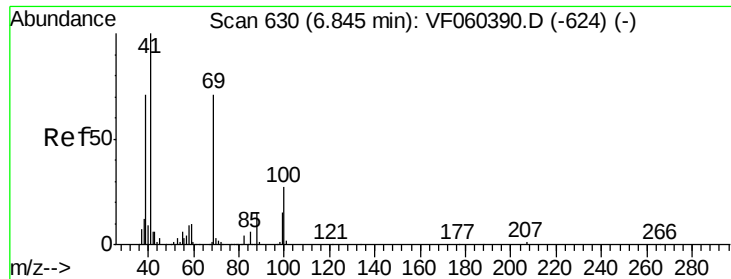


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

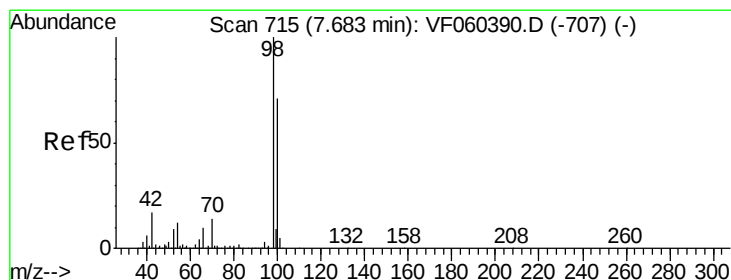
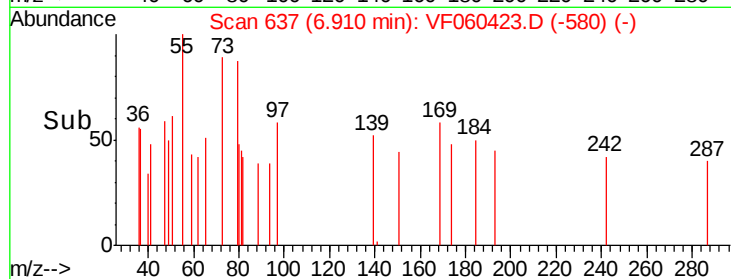
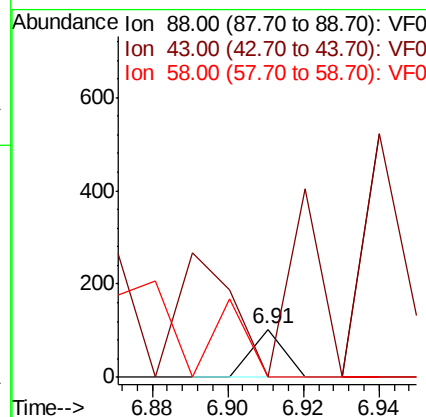
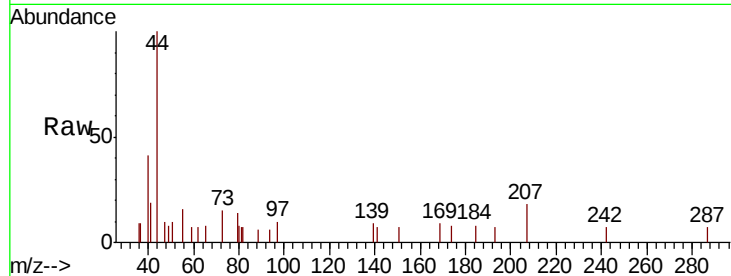




#49
1,4-Dioxane
Concen: 4.301 ug/l
RT: 6.91 min Scan# 637
Delta R.T. 0.07 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

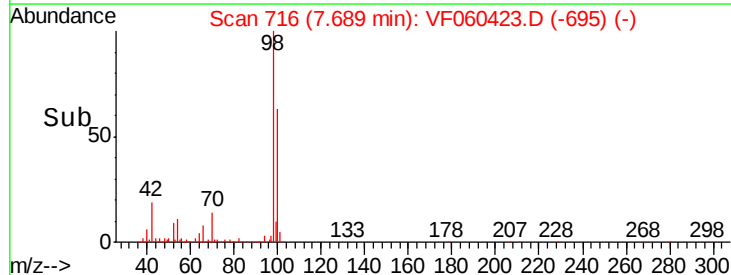
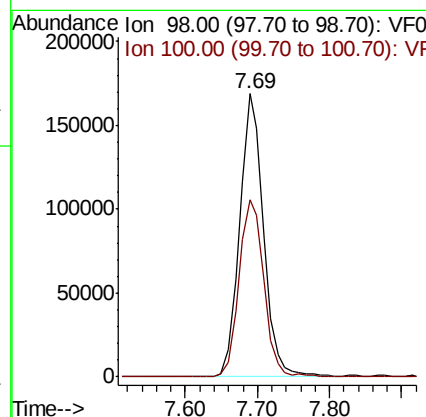
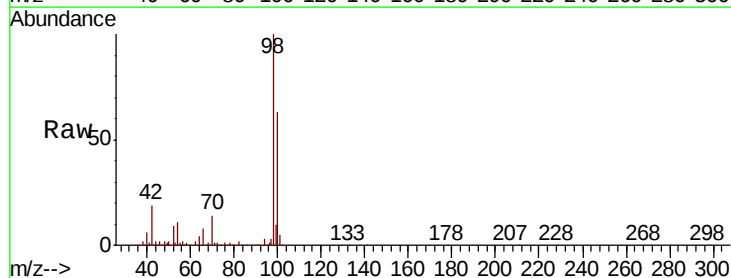
Instrument :
MSVOA_F
ClientSampleId :
SS-1

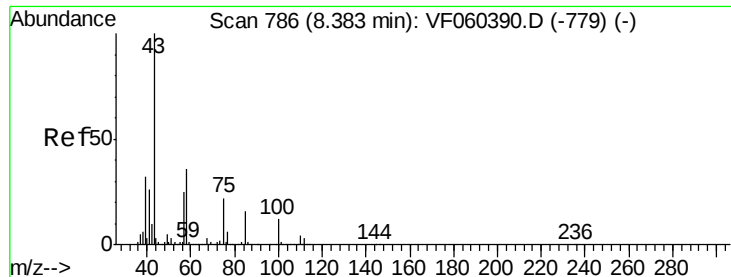
Tot Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 0.0 38.3 57.5#
58 0.0 47.4 71.2#



#50
Toluene-d8
Concen: 41.894 ug/l
RT: 7.69 min Scan# 716
Delta R.T. 0.01 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

Tgt Ion: 98 Resp: 389327
Ion Ratio Lower Upper
98 100
100 62.7 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 2.099 ug/l

RT: 8.39 min Scan# 787

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

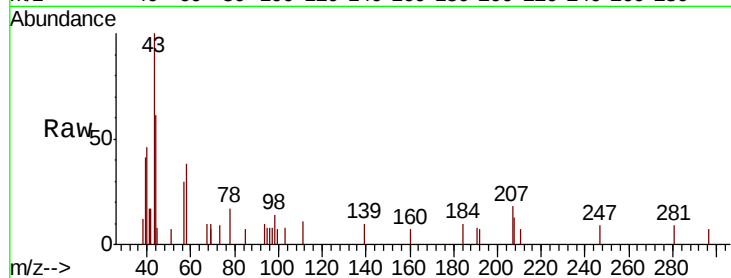
SS-1

Tot Ion: 43 Resp: 3424

Ion Ratio Lower Upper

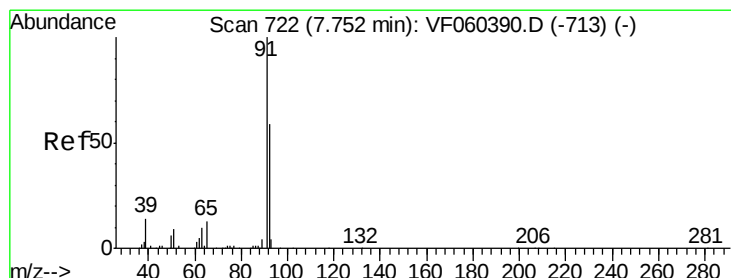
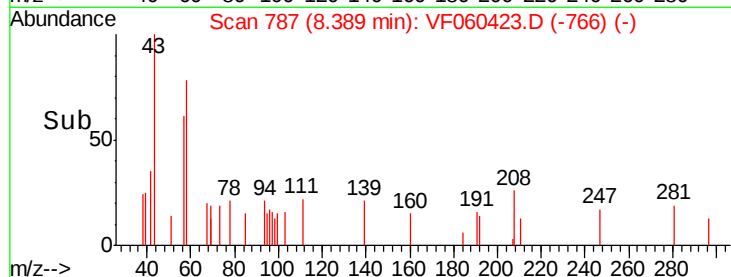
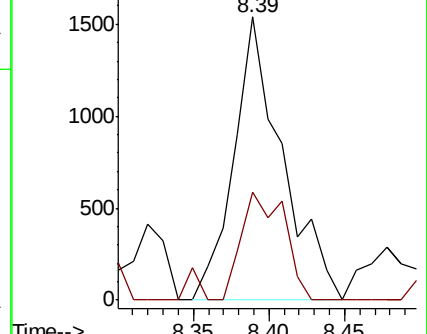
43 100

58 38.4 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.440 ug/l

RT: 7.76 min Scan# 723

Delta R.T. 0.01 min

Lab File: VF060423.D

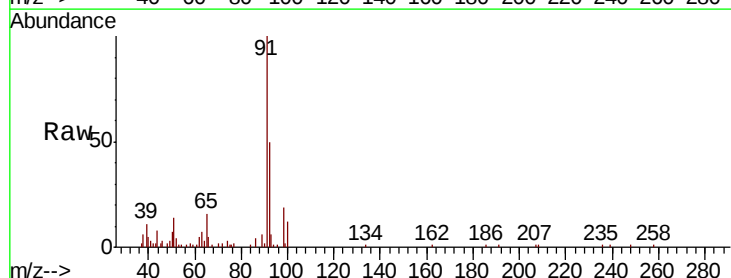
Acq: 3 Oct 2018 19:13

Tgt Ion: 92 Resp: 16294

Ion Ratio Lower Upper

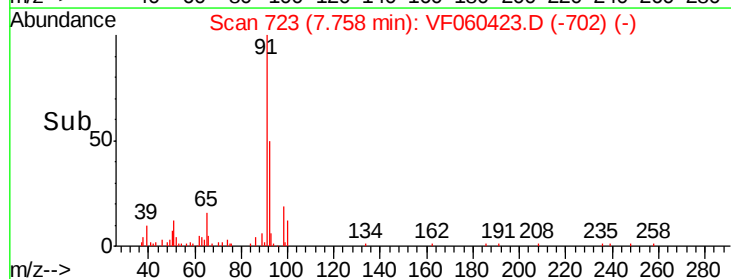
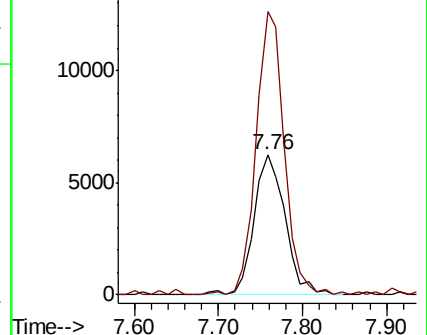
92 100

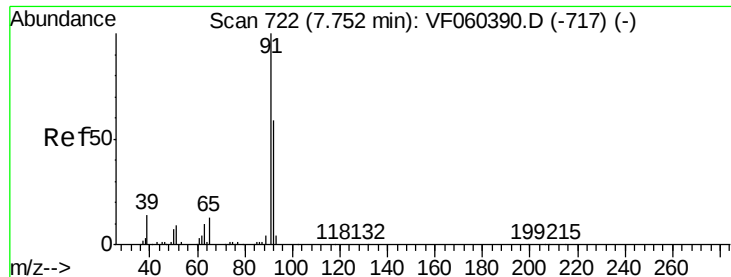
91 201.6 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

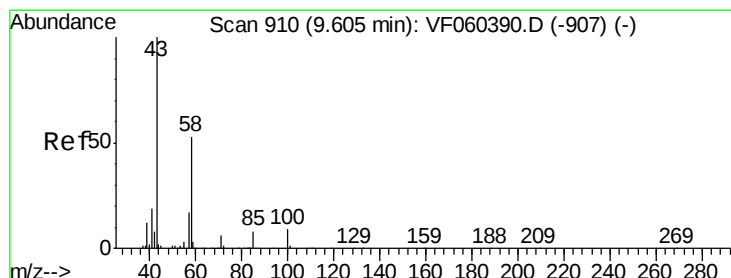
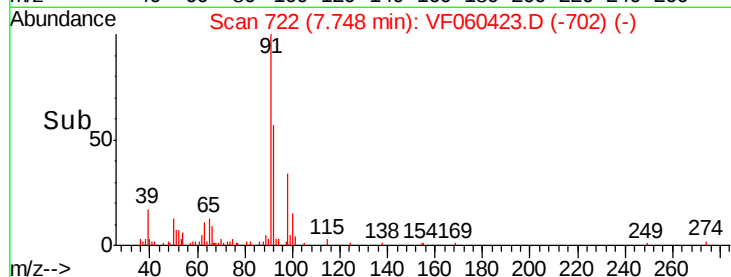
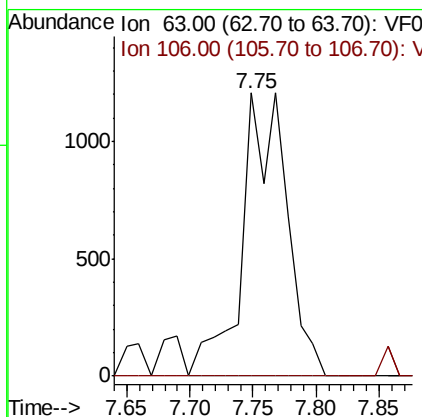
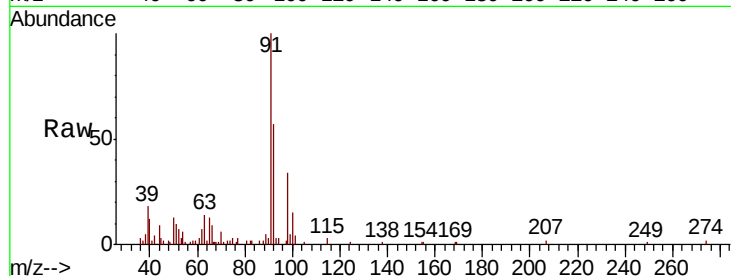




#58
2-Chloroethyl Vinyl ether
Concen: 12.016 ug/l
RT: 7.75 min Scan# 722
Delta R.T. -0.00 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

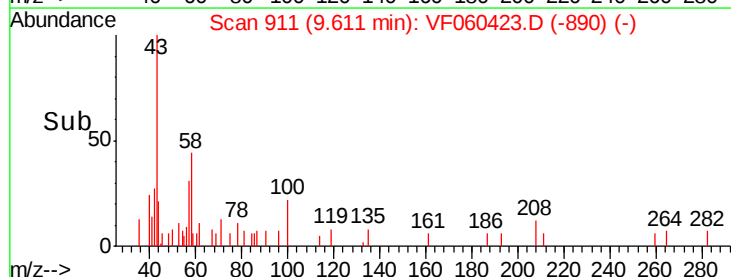
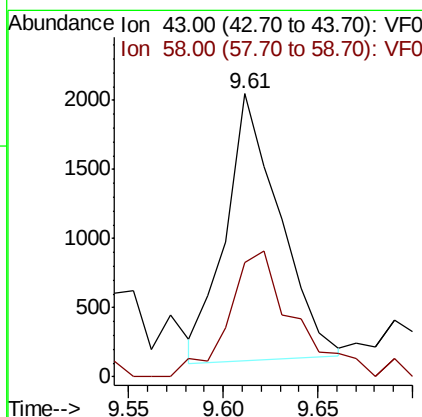
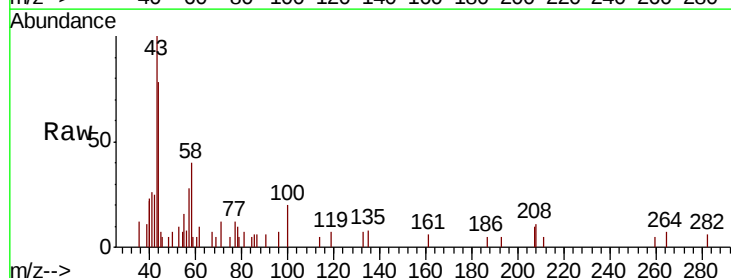
Instrument :
MSVOA_F
ClientSampleId :
SS-1

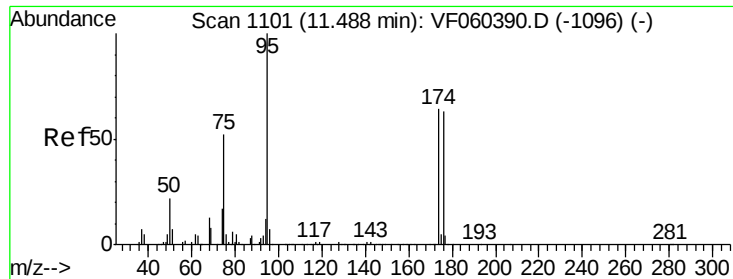
Tot Ion: 63 Resp: 2952
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: 3.189 ug/l
RT: 9.61 min Scan# 911
Delta R.T. 0.01 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

Tgt Ion: 43 Resp: 3816
Ion Ratio Lower Upper
43 100
58 40.4 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 45.513 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

Instrument :

MSVOA_F

ClientSampleId :

SS-1

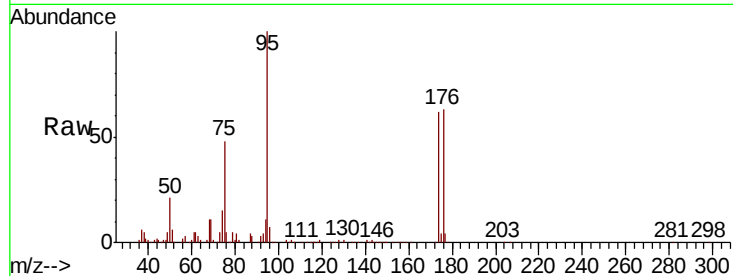
Tot Ion: 95 Resp: 193120

Ion Ratio Lower Upper

95 100

174 62.4 0.0 129.0

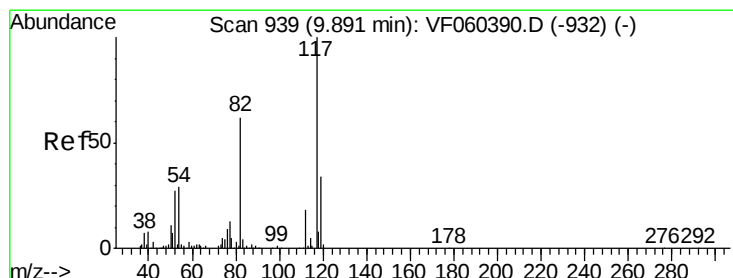
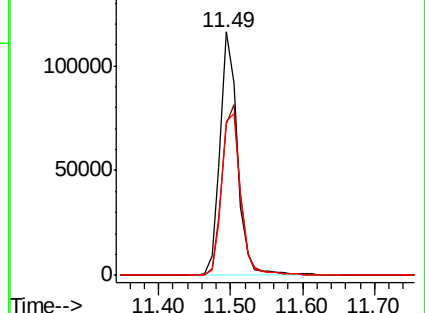
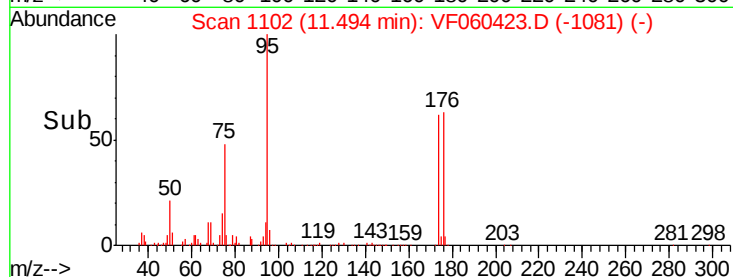
176 63.3 0.0 125.6



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: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF060423.D

Acq: 3 Oct 2018 19:13

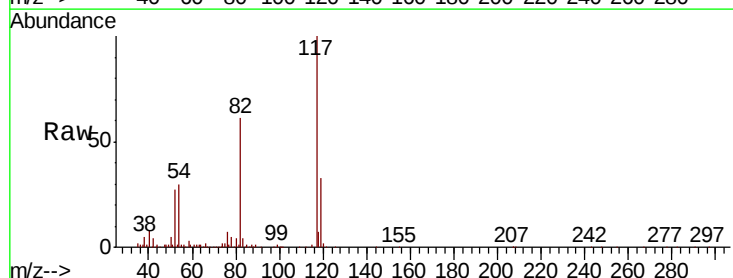
Tgt Ion: 117 Resp: 334281

Ion Ratio Lower Upper

117 100

82 61.2 49.5 74.3

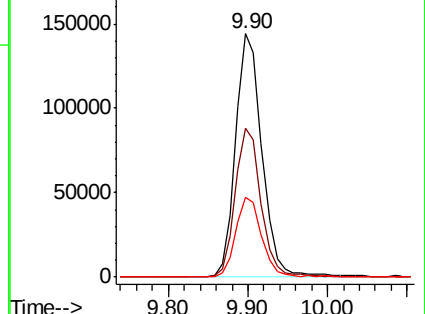
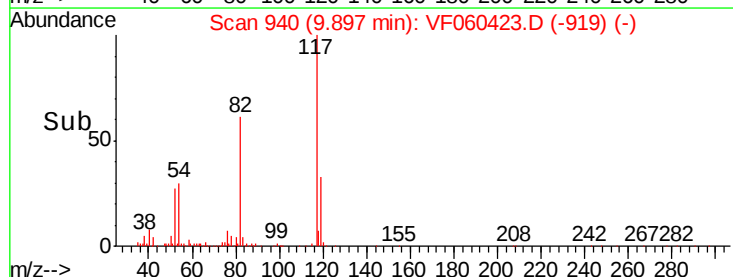
119 32.6 27.0 40.6

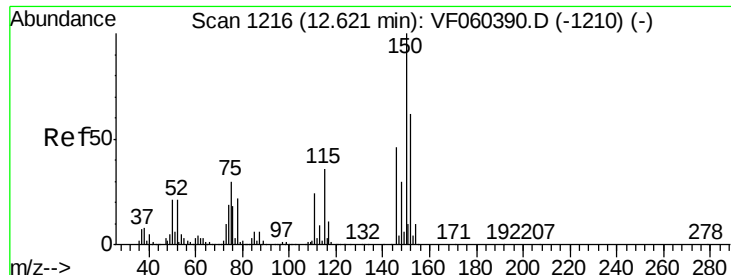


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



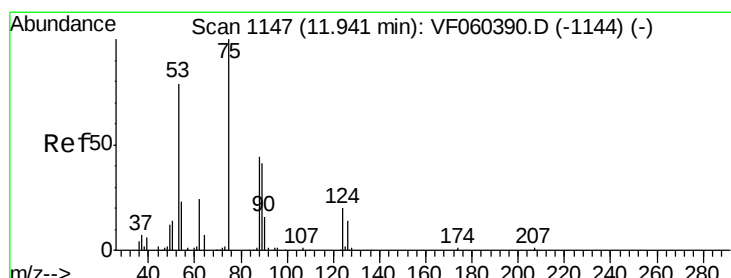
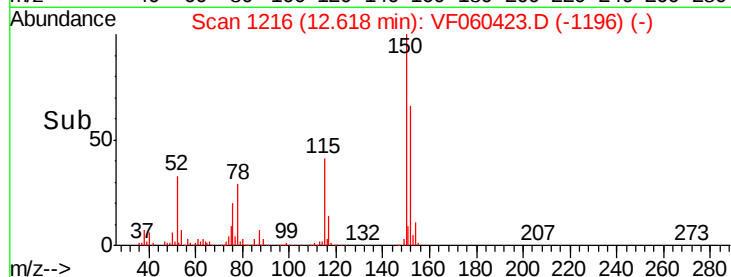
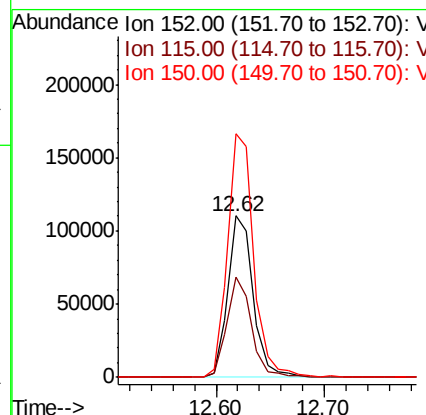
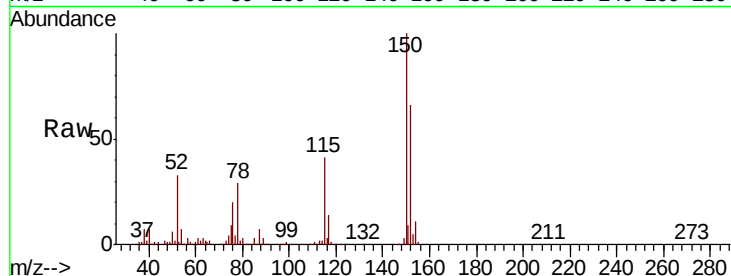


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.00 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

Instrument :
MSVOA_F
ClientSampleId :
SS-1

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.8	28.6	85.8
150	150.8	0.0	324.6



#81

trans-1,4-Dichloro-2-butene
Concen: 1.295 ug/l
RT: 11.97 min Scan# 1150
Delta R.T. 0.03 min
Lab File: VF060423.D
Acq: 3 Oct 2018 19:13

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	67.8	101.8#
89	16.5	36.7	55.1#

