

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100318\
 Data File : VF060432.D
 Acq On : 3 Oct 2018 23:19
 Operator : VA/AP
 Sample : J5198-05
 Misc : 6.06/5mL/MSVOA F/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-100218-C

Quant Time: Oct 04 05:25:27 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	274569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	439063	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	283751	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	130605	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.00	65	208182	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	
35) Dibromofluoromethane	4.27	113	229890	55.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.46%	
50) Toluene-d8	7.69	98	273498	26.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	53.84%	
62) 4-Bromofluorobenzene	11.49	95	173794	37.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.94%	

Target Compounds

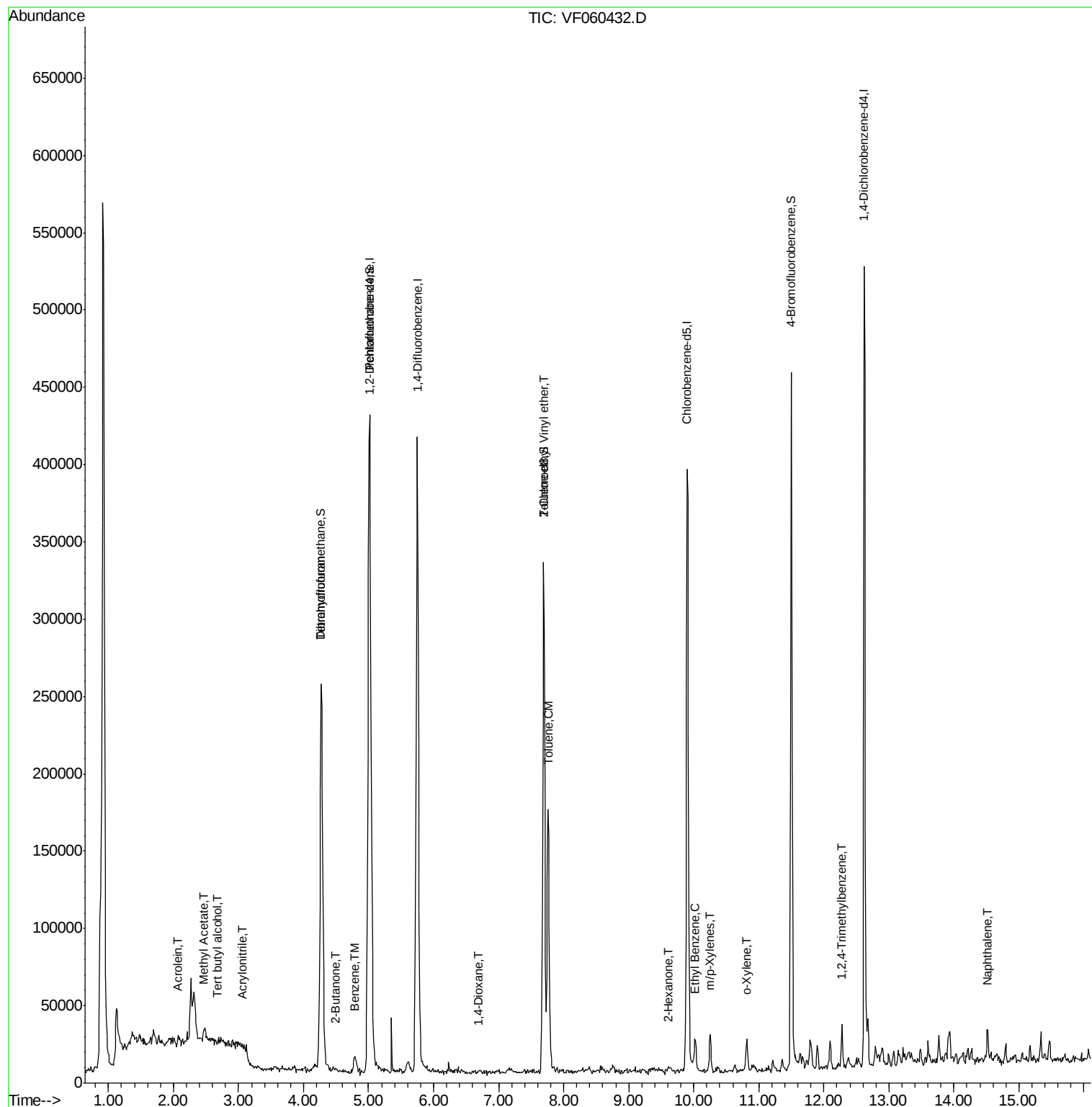
					Qvalue	
2) Dichlorodifluoromethane	0.99	85	393	Below Cal	#	61
11) Tert butyl alcohol	2.67	59	293	1.127	ug/l #	1
13) Acrolein	2.07	56	386	1.847	ug/l #	1
15) Acrylonitrile	3.06	53	666	1.496	ug/l #	39
16) Acetone	2.33	43	8246	Below Cal		100
18) Methyl Acetate	2.47	43	5056	1.403	ug/l #	57
20) Methylene Chloride	2.27	84	14208	Below Cal		91
25) 2-Butanone	4.49	43	2066	1.857	ug/l #	80
29) Tetrahydrofuran	4.27	42	2601	1.653	ug/l #	36
40) Benzene	4.79	78	12927	1.203	ug/l	98
49) 1,4-Dioxane	6.68	88	63	4.063	ug/l #	1
52) Toluene	7.76	92	90550	12.405	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.69	63	534	1.988	ug/l	100
59) 2-Hexanone	9.61	43	3613	2.762	ug/l #	51
67) Ethyl Benzene	10.02	91	17449	1.574	ug/l	95
68) m/p-Xylenes	10.25	106	7152	1.877	ug/l #	62
69) o-Xylene	10.81	106	6522	1.570	ug/l	91
84) 1,2,4-Trimethylbenzene	12.28	105	14422	1.664	ug/l	96
95) Naphthalene	14.52	128	10316	1.863	ug/l	96

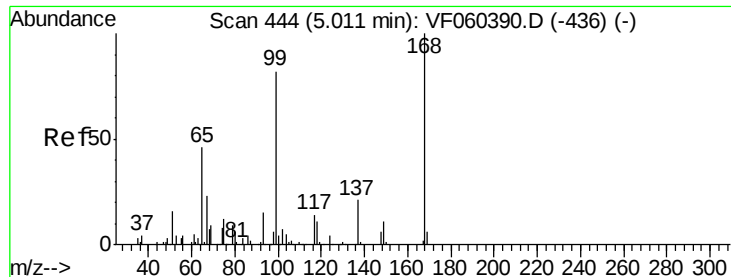
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 02 11:42:56 2018
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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: VF060432.D

Acq: 3 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

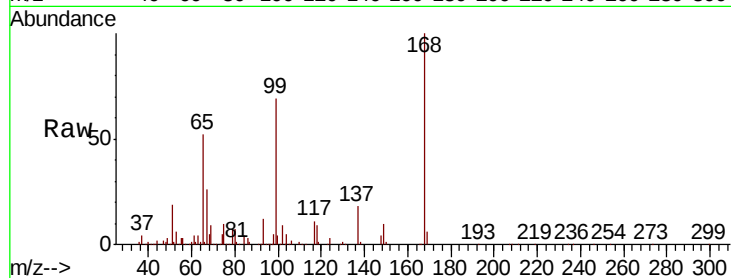
CL-01-100218-C

Tot Ion:168 Resp: 274569

Ion Ratio Lower Upper

168 100

99 68.5 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

100000

80000

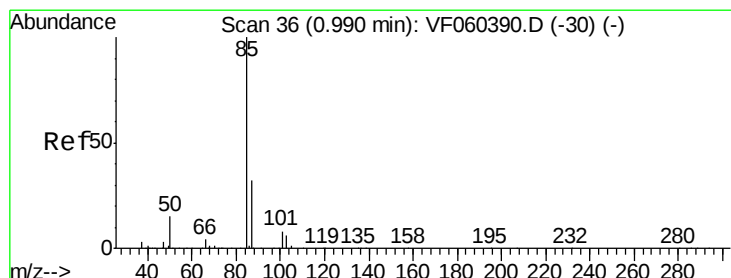
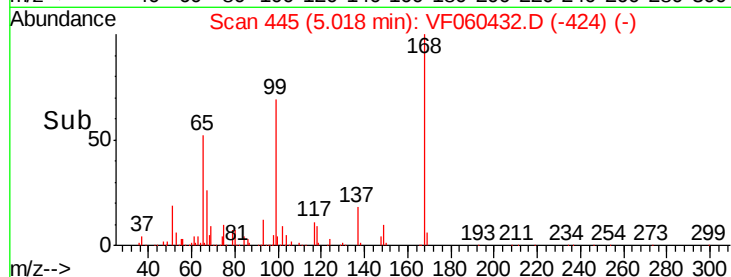
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 36

Delta R.T. -0.00 min

Lab File: VF060432.D

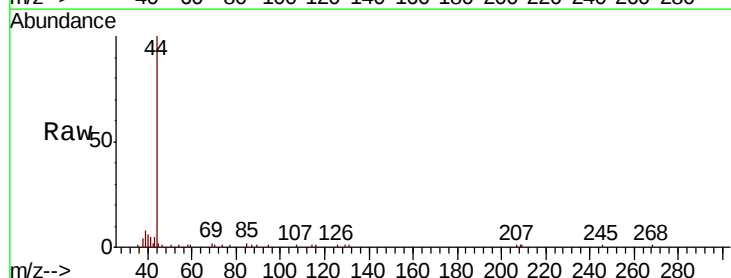
Acq: 3 Oct 2018 23:19

Tgt Ion: 85 Resp: 393

Ion Ratio Lower Upper

85 100

87 53.3 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

300

250

200

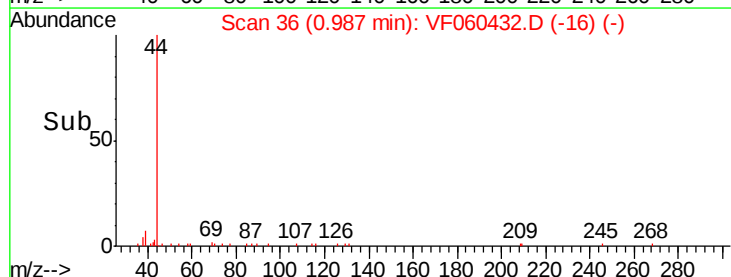
150

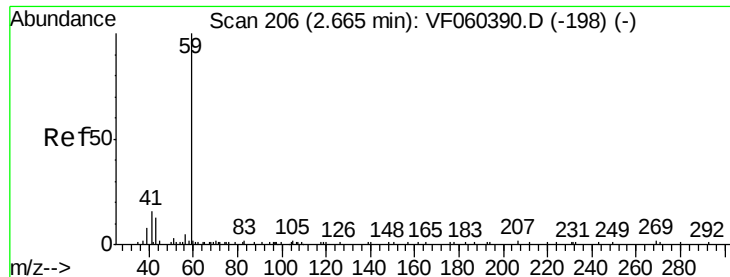
100

50

0

Time-->



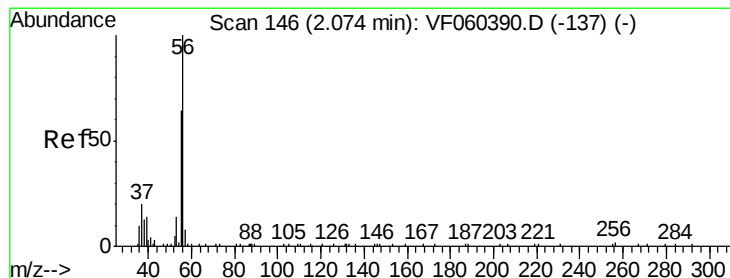
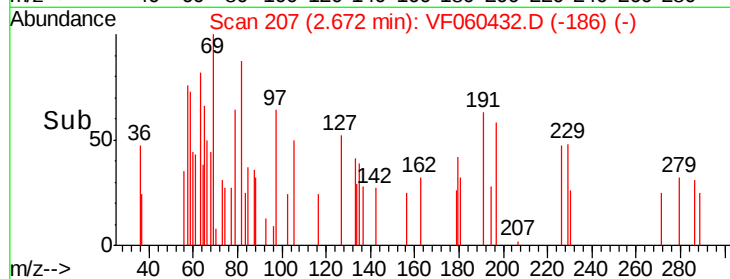
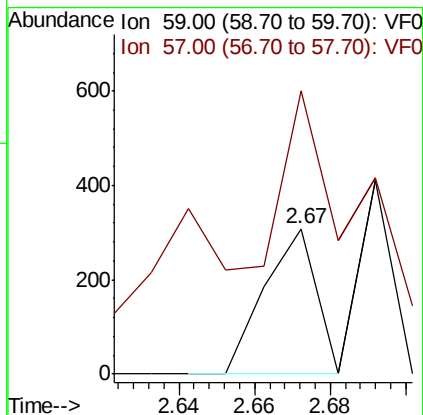
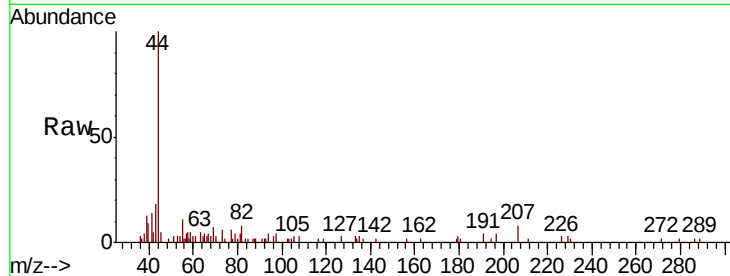


#11

Tert butyl alcohol
 Concen: 1.127 ug/l
 RT: 2.67 min Scan# 207
 Delta R.T. 0.01 min
 Lab File: VF060432.D
 Acq: 3 Oct 2018 23:19

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-100218-C

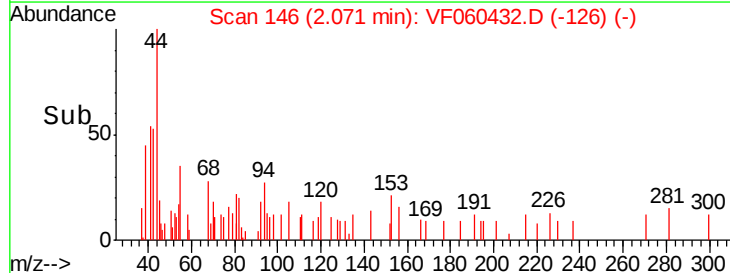
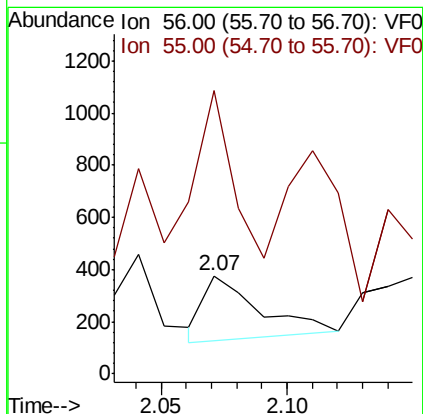
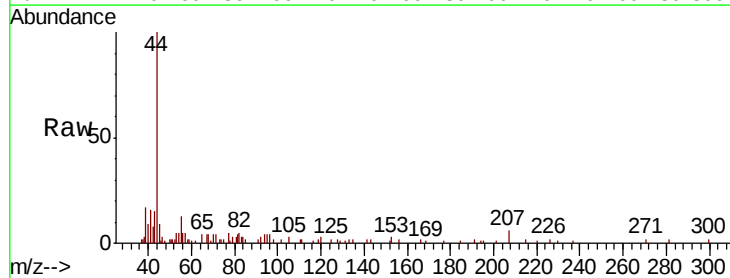
Tot Ion: 59 Resp: 293
 Ion Ratio Lower Upper
 59 100
 57 194.2 6.5 9.7#

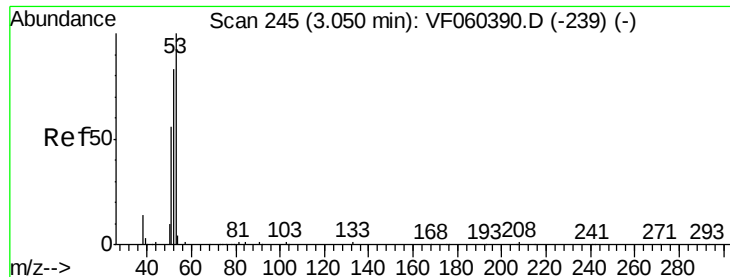


#13

Acrolein
 Concen: 1.847 ug/l
 RT: 2.07 min Scan# 146
 Delta R.T. -0.00 min
 Lab File: VF060432.D
 Acq: 3 Oct 2018 23:19

Tgt Ion: 56 Resp: 386
 Ion Ratio Lower Upper
 56 100
 55 289.3 53.9 80.9#





#15

Acrylonitrile

Concen: 1.496 ug/l

RT: 3.06 min Scan# 246

Delta R.T. 0.01 min

Lab File: VF060432.D

Acq: 3 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

CL-01-100218-C

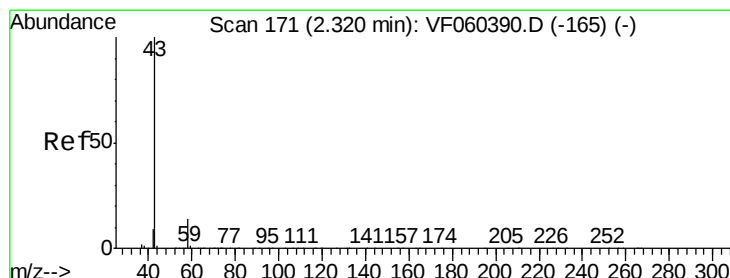
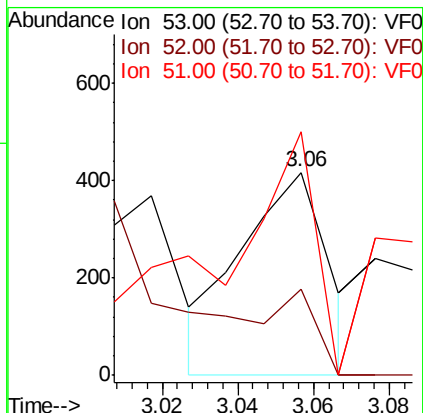
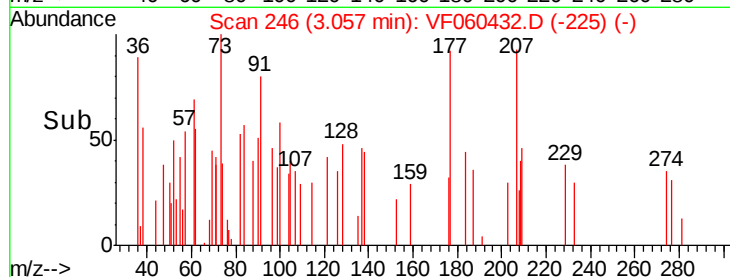
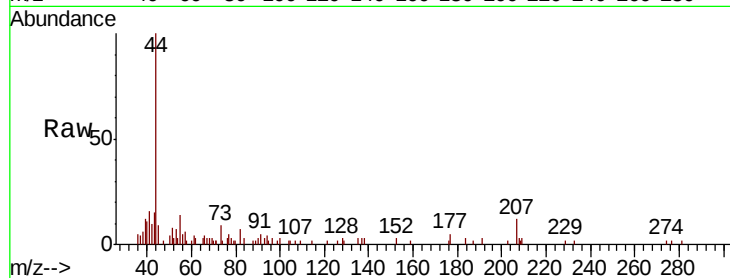
Tot Ion: 53 Resp: 666

Ion Ratio Lower Upper

53 100

52 42.7 66.0 99.0#

51 119.9 45.6 68.4#



#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF060432.D

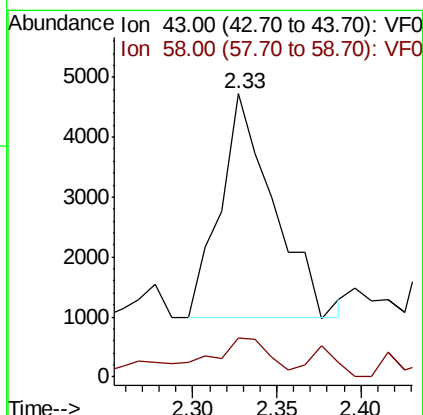
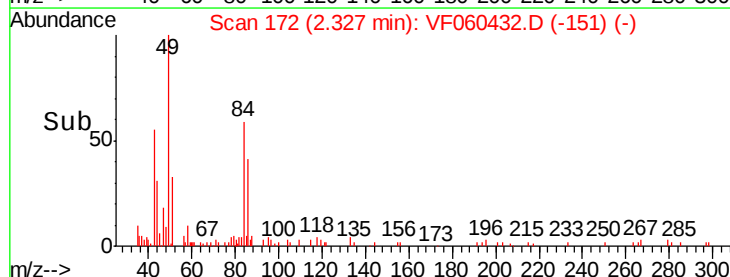
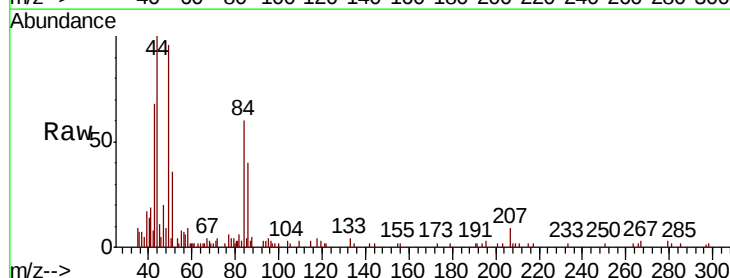
Acq: 3 Oct 2018 23:19

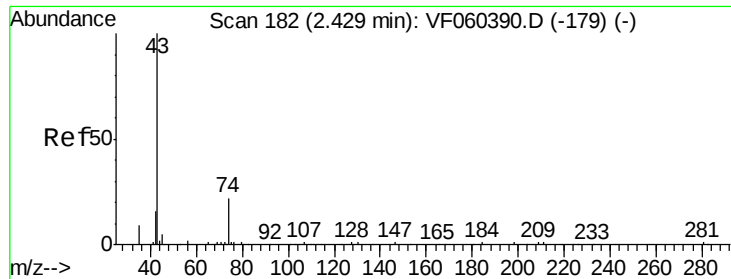
Tgt Ion: 43 Resp: 8246

Ion Ratio Lower Upper

43 100

58 13.9 11.2 16.8

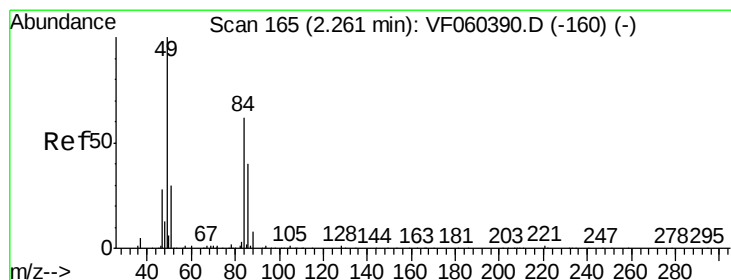
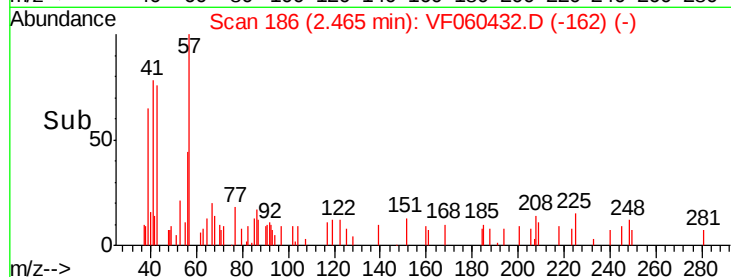
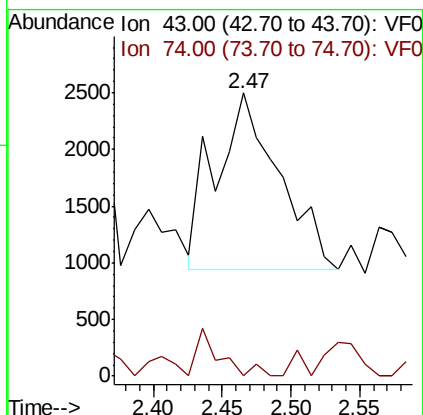
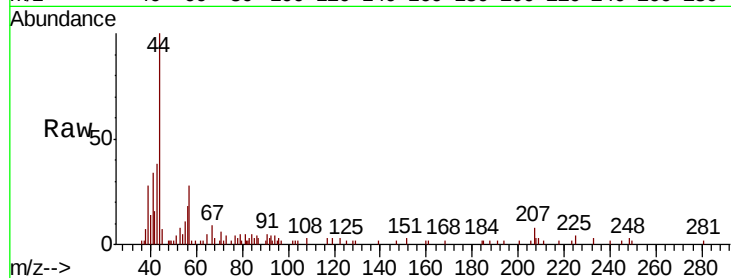




#18
Methyl Acetate
Concen: 1.403 ug/l
RT: 2.47 min Scan# 186
Delta R.T. 0.04 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

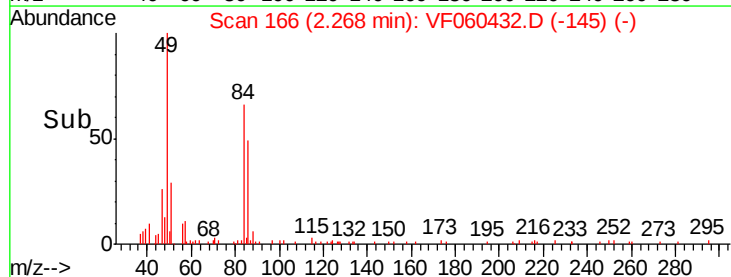
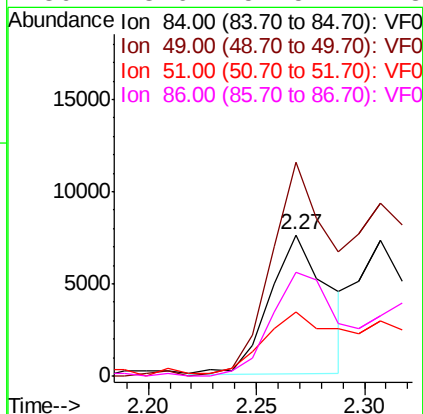
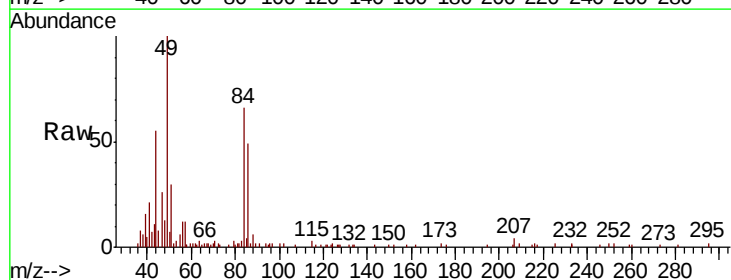
Instrument :
MSVOA_F
ClientSampleId :
CL-01-100218-C

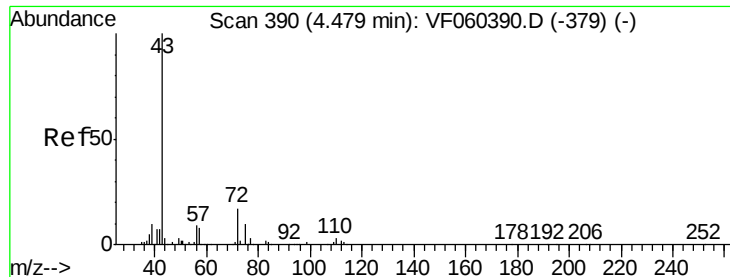
Tot Ion: 43 Resp: 5056
Ion Ratio Lower Upper
43 100
74 0.0 15.8 23.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Tgt Ion: 84 Resp: 14208
Ion Ratio Lower Upper
84 100
49 151.1 130.2 195.2
51 45.6 41.0 61.6
86 73.6 51.5 77.3





#25

2-Butanone

Concen: 1.857 ug/l

RT: 4.49 min Scan# 391

Delta R.T. 0.01 min

Lab File: VF060432.D

Acq: 3 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

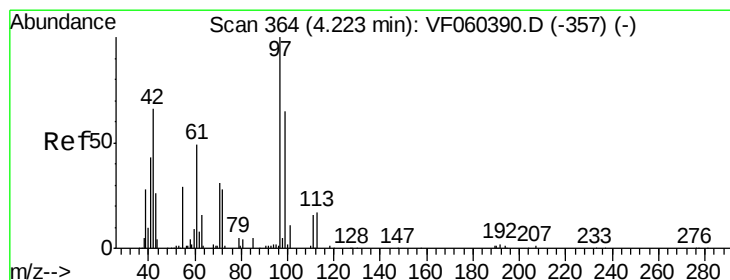
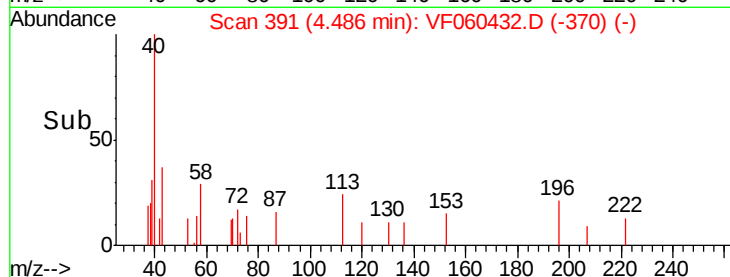
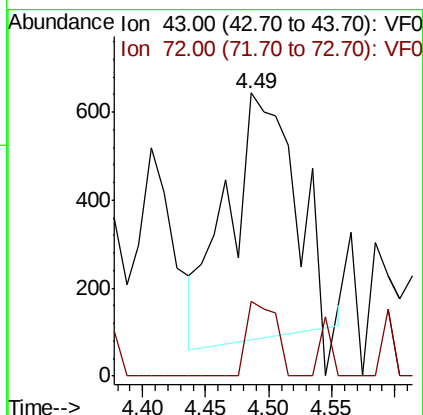
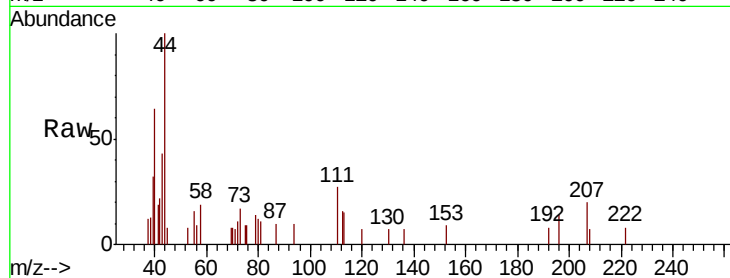
CL-01-100218-C

Tot Ion: 43 Resp: 2066

Ion Ratio Lower Upper

43 100

72 26.3 14.1 21.1#



#29

Tetrahydrofuran

Concen: 1.653 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.05 min

Lab File: VF060432.D

Acq: 3 Oct 2018 23:19

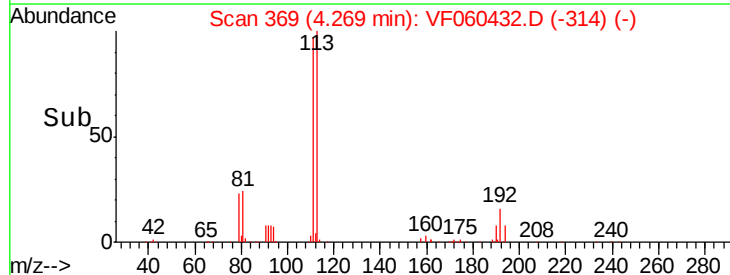
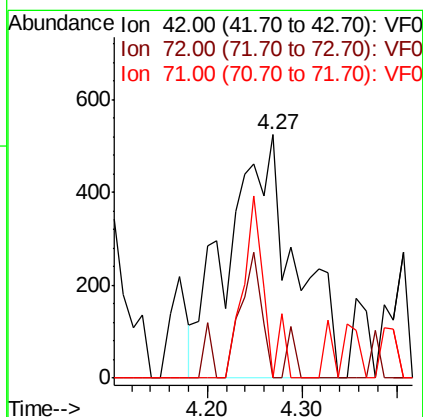
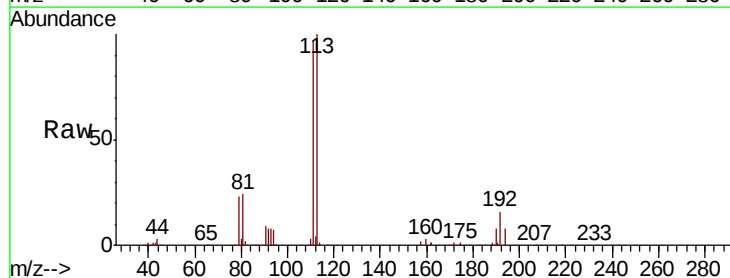
Tgt Ion: 42 Resp: 2601

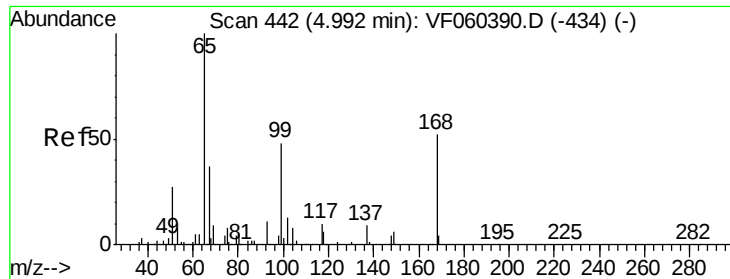
Ion Ratio Lower Upper

42 100

72 2.5 33.6 50.4#

71 0.0 32.7 49.1#

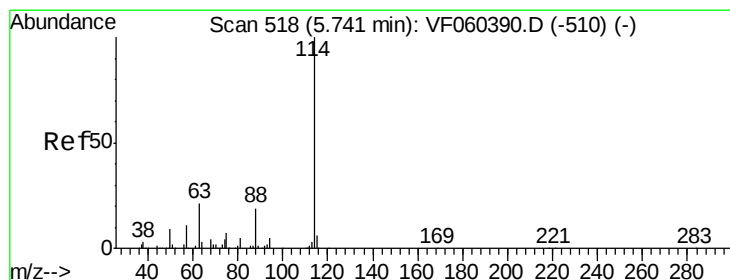
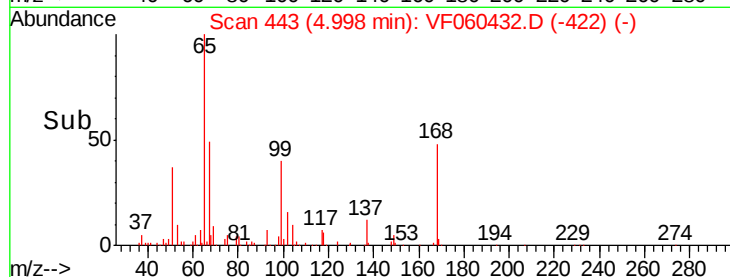
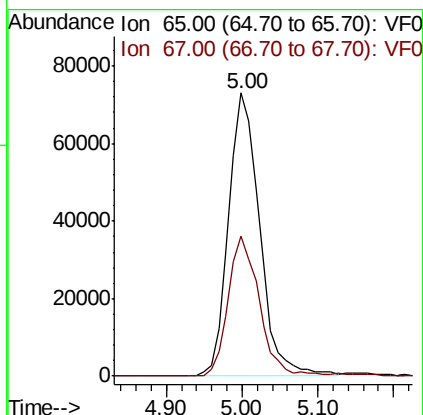
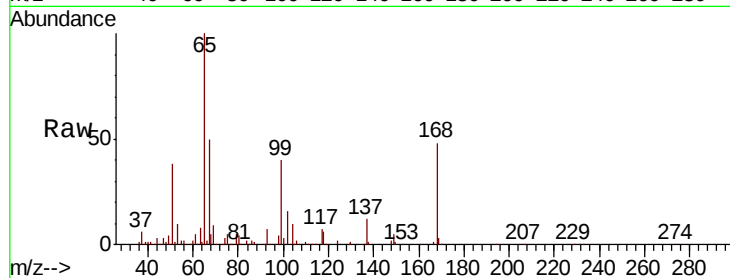




#33
 1,2-Dichloroethane-d4
 Concen: 48.455 ug/l
 RT: 5.00 min Scan# 443
 Delta R.T. 0.01 min
 Lab File: VF060432.D
 Acq: 3 Oct 2018 23:19

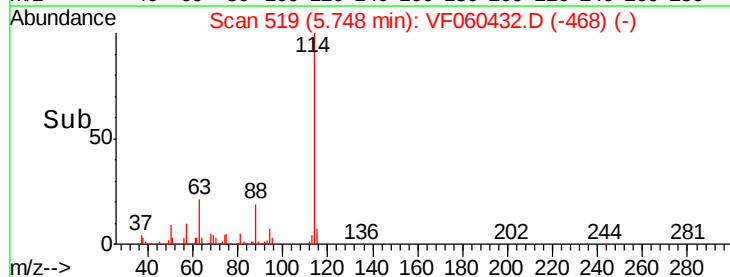
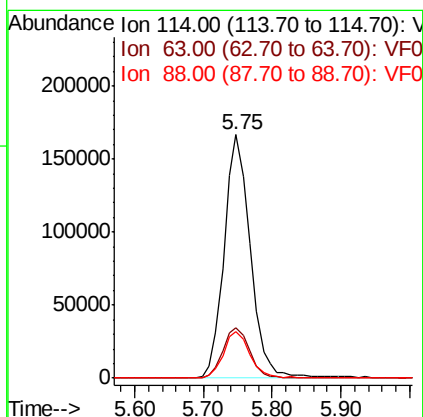
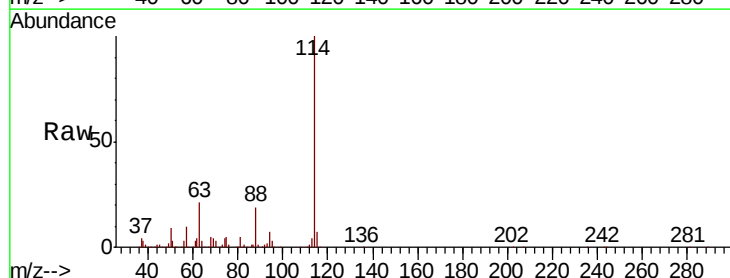
Instrument :
 MSVOA_F
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 CL-01-100218-C

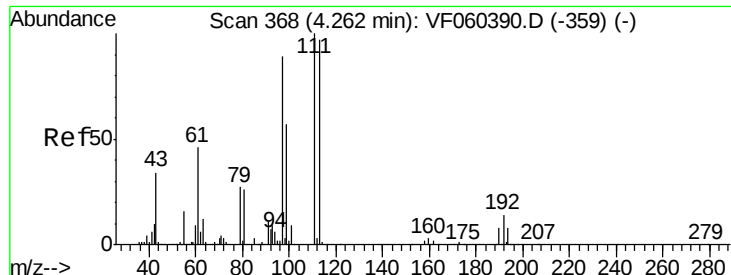
Tot Ion: 65 Resp: 208182
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 89.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 519
 Delta R.T. 0.01 min
 Lab File: VF060432.D
 Acq: 3 Oct 2018 23:19

Tgt Ion: 114 Resp: 439063
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.2
 88 19.3 0.0 38.8

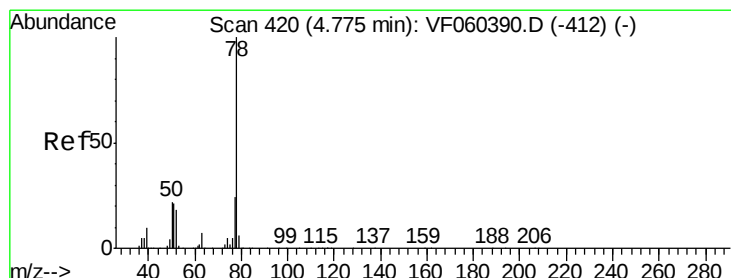
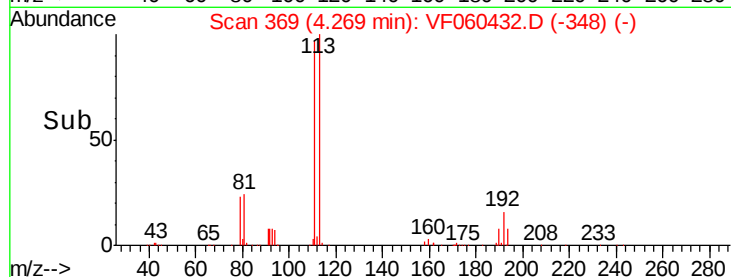
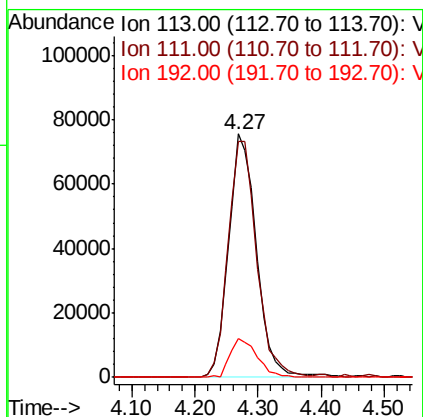
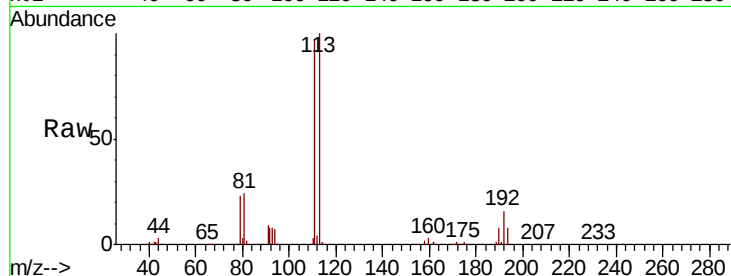




#35
 Dibromofluoromethane
 Concen: 55.735 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. 0.01 min
 Lab File: VF060432.D
 Acq: 3 Oct 2018 23:19

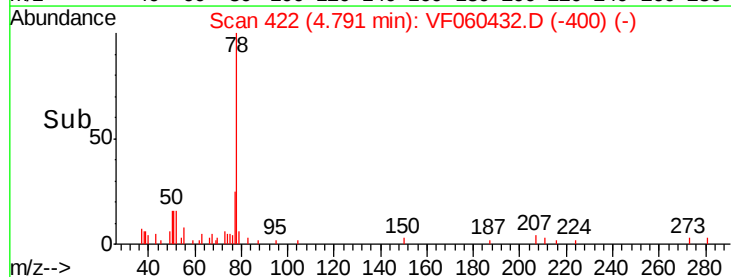
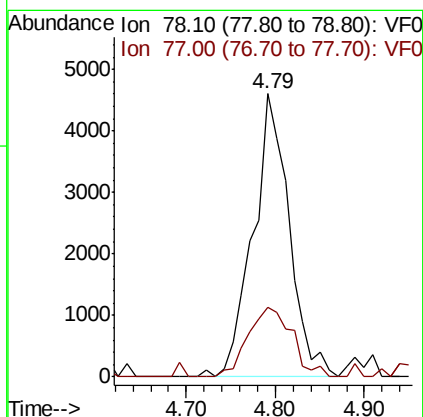
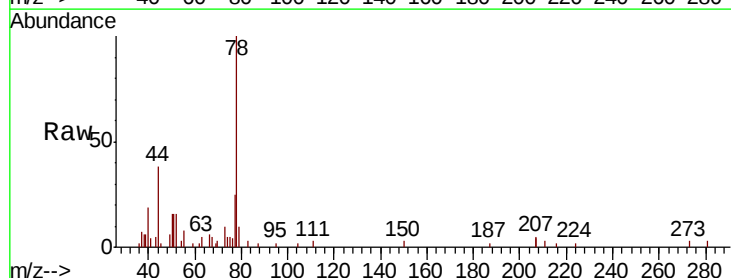
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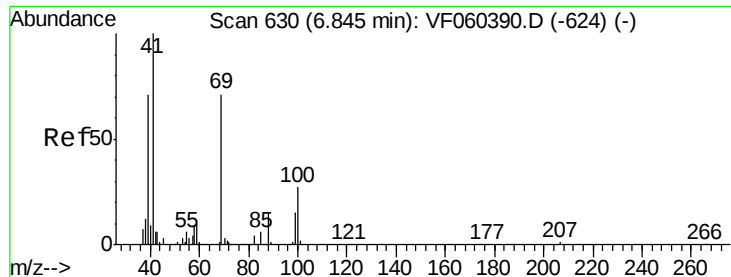
Tot Ion:113 Resp: 229890
 Ion Ratio Lower Upper
 113 100
 111 97.2 82.3 123.5
 192 15.9 11.8 17.6



#40
 Benzene
 Concen: 1.203 ug/l
 RT: 4.79 min Scan# 422
 Delta R.T. 0.02 min
 Lab File: VF060432.D
 Acq: 3 Oct 2018 23:19

Tgt Ion: 78 Resp: 12927
 Ion Ratio Lower Upper
 78 100
 77 24.8 19.2 28.8

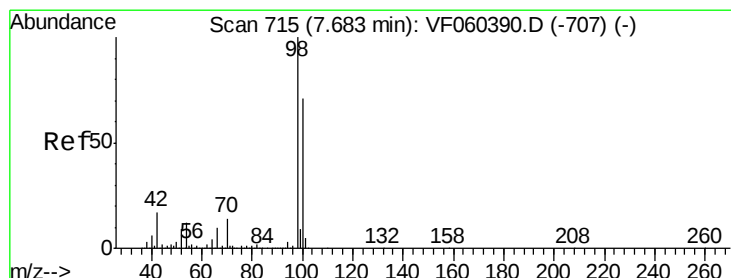
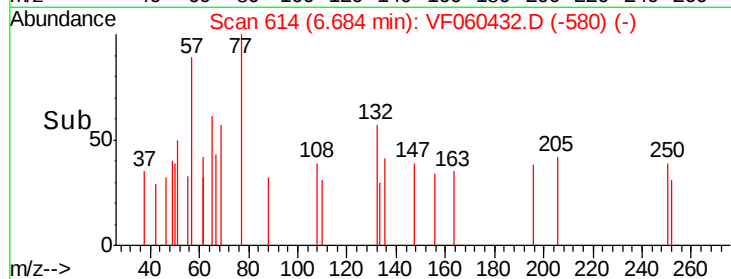
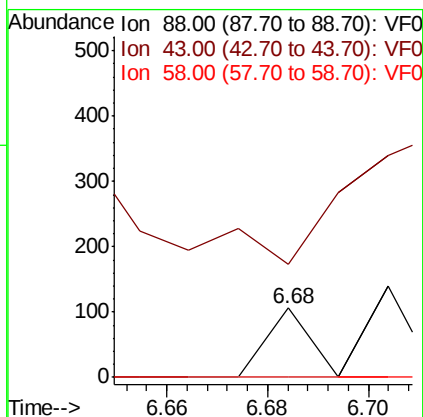
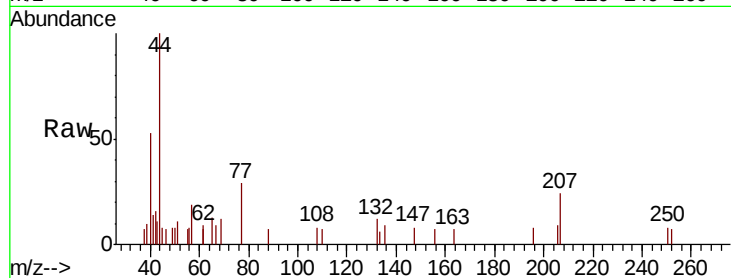




#49
1,4-Dioxane
Concen: 4.063 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.16 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

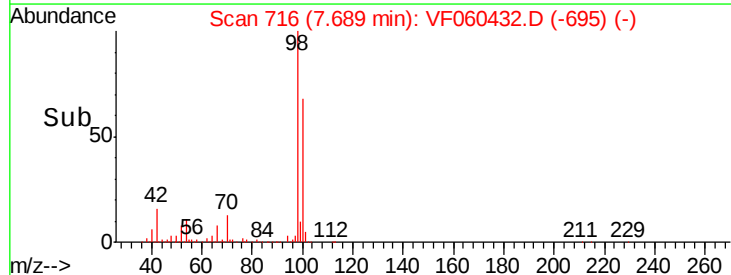
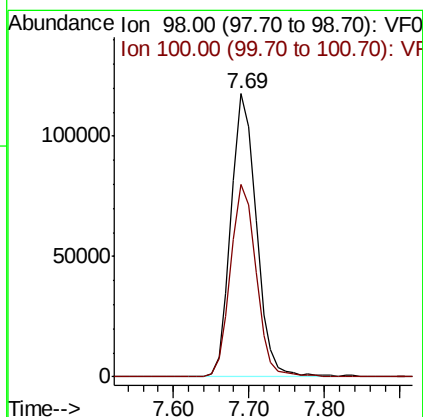
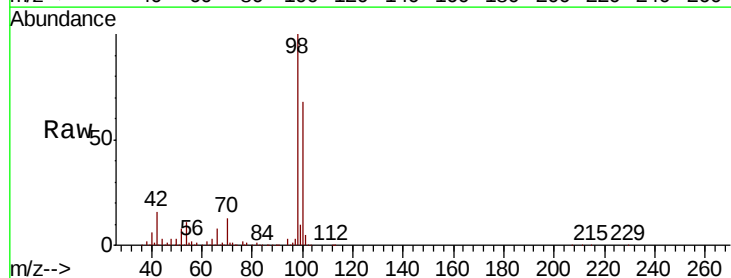
Instrument :
MSVOA_F
ClientSampleId :
CL-01-100218-C

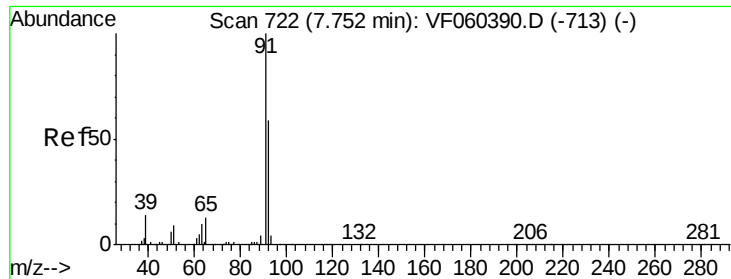
Tot Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 164.2 38.3 57.5#
58 0.0 47.4 71.2#



#50
Toluene-d8
Concen: 26.923 ug/l
RT: 7.69 min Scan# 716
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Tgt Ion: 98 Resp: 273498
Ion Ratio Lower Upper
98 100
100 68.2 56.5 84.7





#52

Toluene

Concen: 12.405 ug/l

RT: 7.76 min Scan# 723

Delta R.T. 0.01 min

Lab File: VF060432.D

Acq: 3 Oct 2018 23:19

Instrument :

MSVOA_F

ClientSampleId :

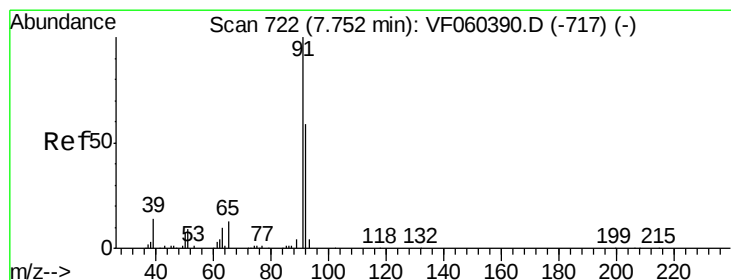
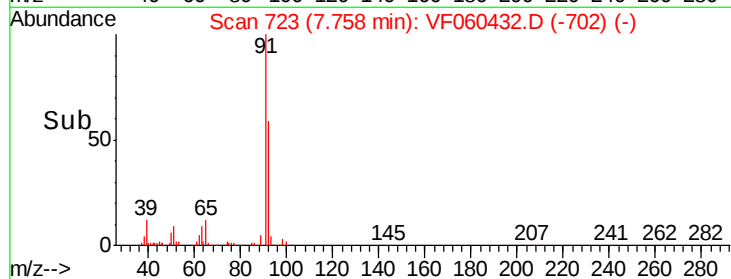
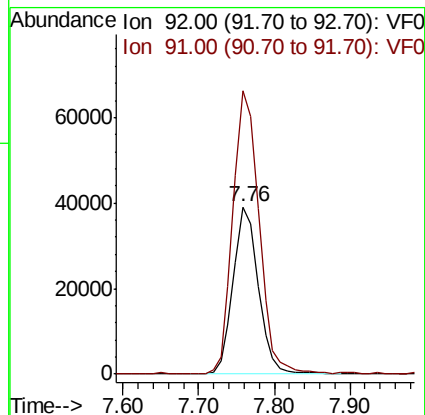
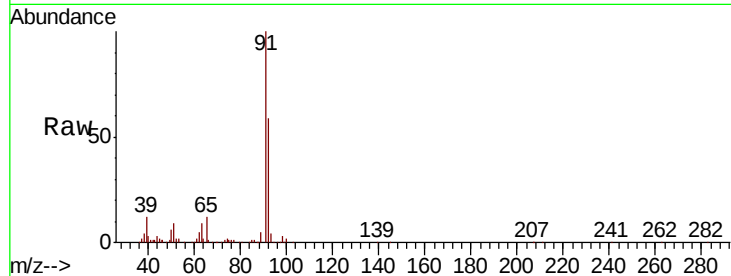
CL-01-100218-C

Tot Ion: 92 Resp: 90550

Ion Ratio Lower Upper

92 100

91 169.5 135.4 203.0



#58

2-Chloroethyl Vinyl ether

Concen: 1.988 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.06 min

Lab File: VF060432.D

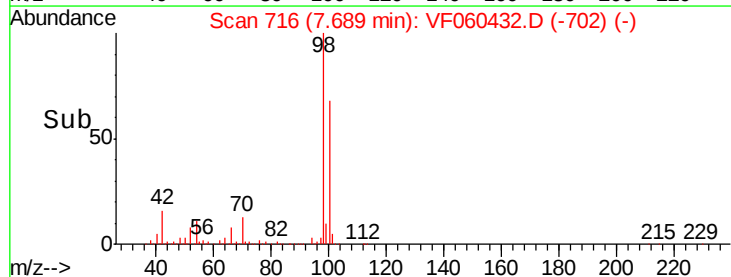
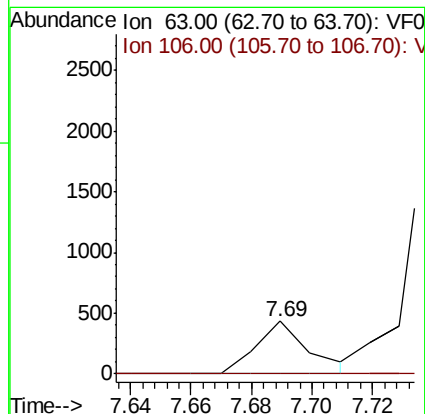
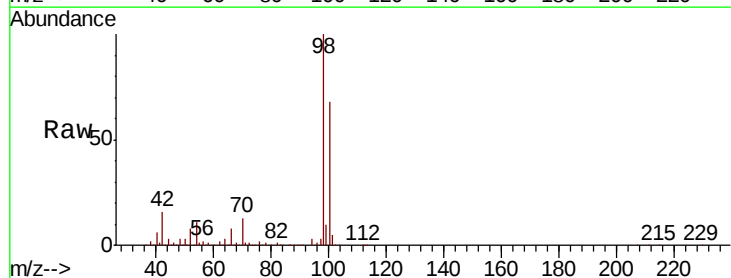
Acq: 3 Oct 2018 23:19

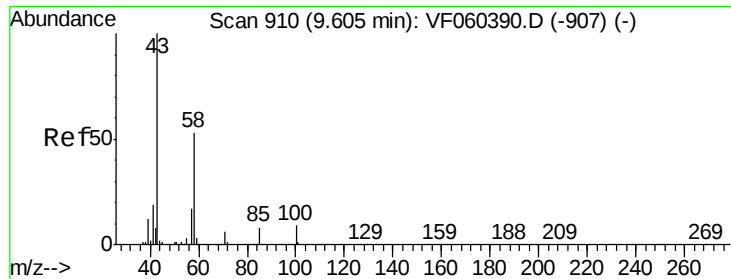
Tgt Ion: 63 Resp: 534

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

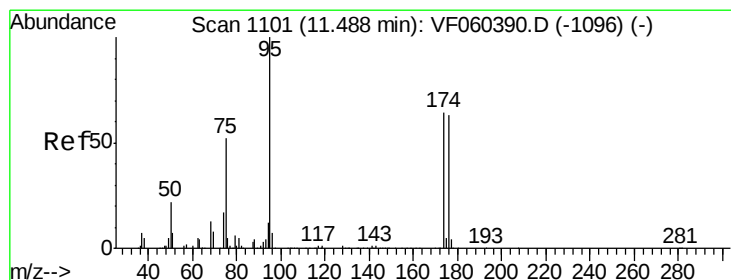
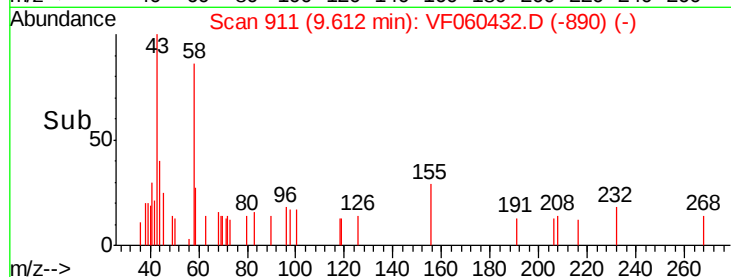
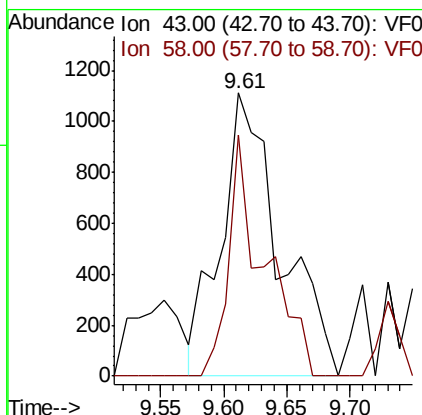
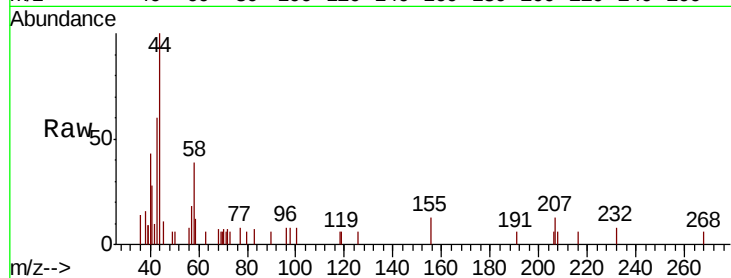




#59
2-Hexanone
Concen: 2.762 ug/l
RT: 9.61 min Scan# 911
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

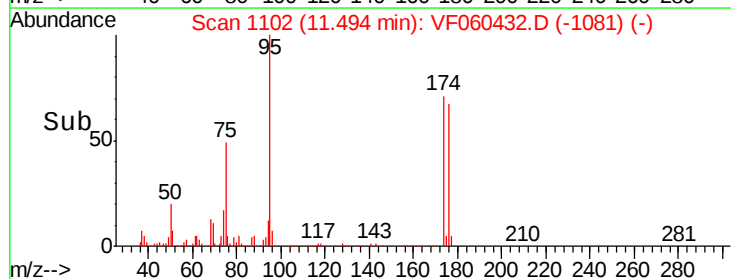
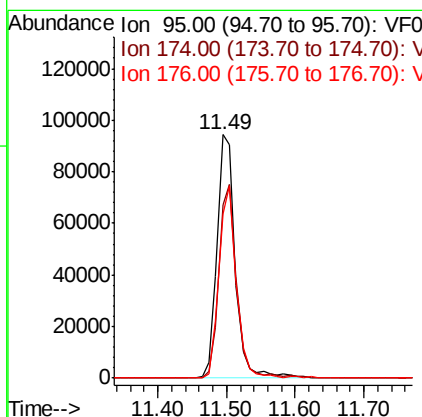
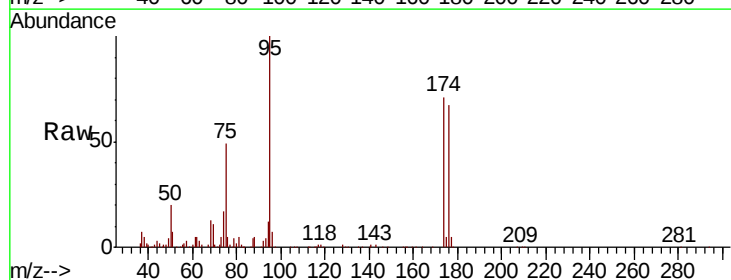
Instrument :
MSVOA_F
ClientSampleId :
CL-01-100218-C

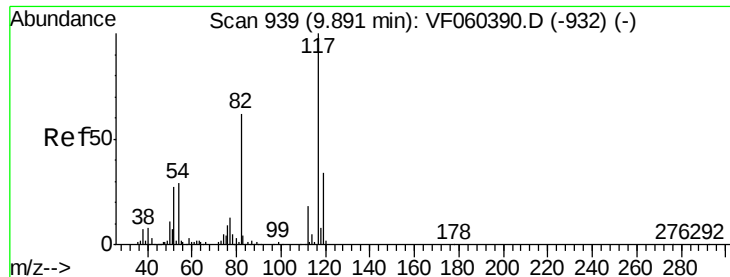
Tot Ion: 43 Resp: 3613
Ion Ratio Lower Upper
43 100
58 85.1 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 37.470 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Tgt Ion: 95 Resp: 173794
Ion Ratio Lower Upper
95 100
174 71.3 0.0 129.0
176 67.3 0.0 125.6

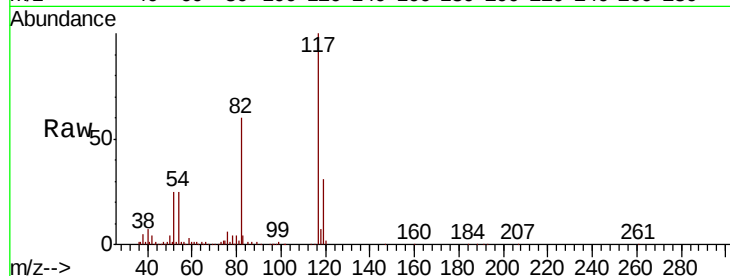




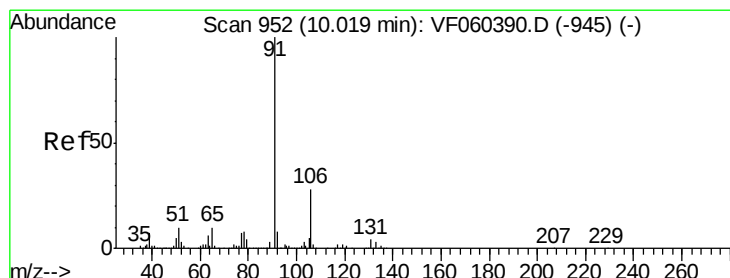
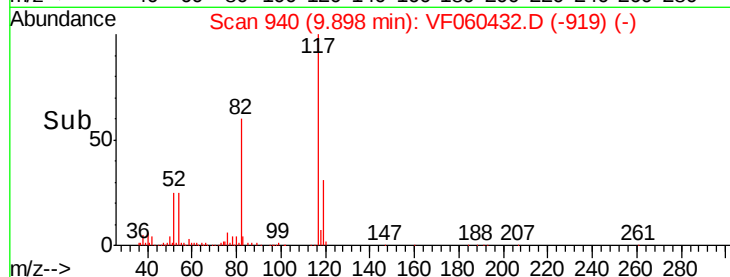
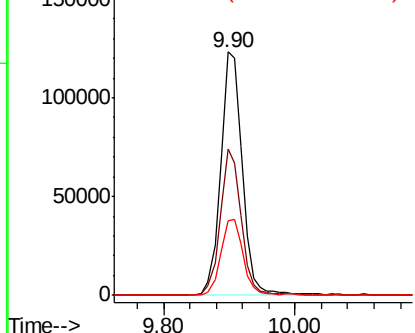
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Instrument :
MSVOA_F
ClientSampleId :
CL-01-100218-C

Tot Ion:117 Resp: 283751
Ion Ratio Lower Upper
117 100
82 60.0 49.5 74.3
119 30.6 27.0 40.6

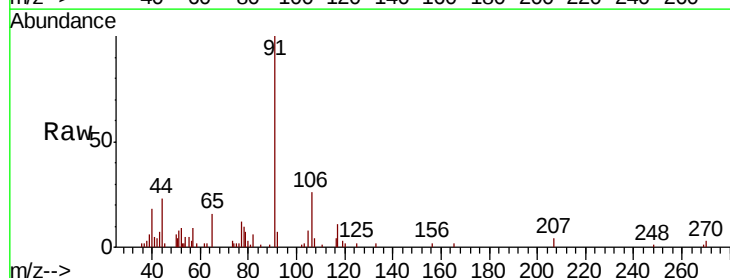


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

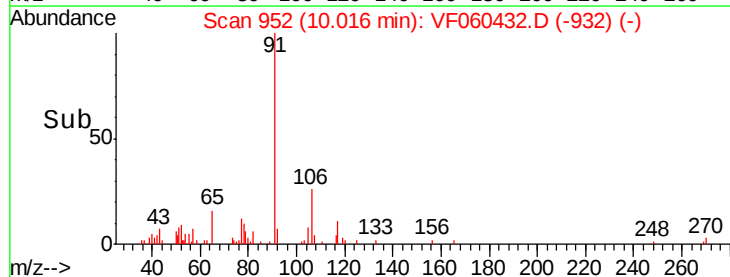
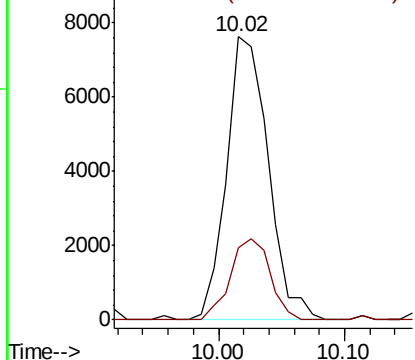


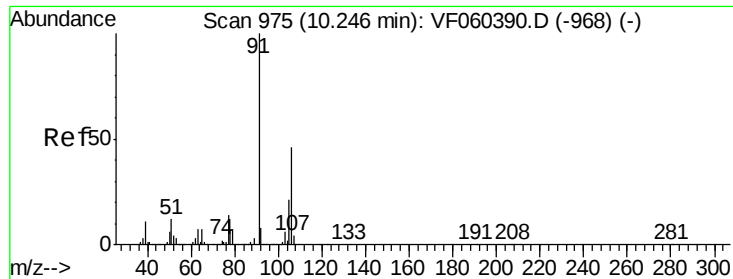
#67
Ethyl Benzene
Concen: 1.574 ug/l
RT: 10.02 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Tgt Ion: 91 Resp: 17449
Ion Ratio Lower Upper
91 100
106 25.6 22.5 33.7



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 106.00 (105.70 to 106.70): V

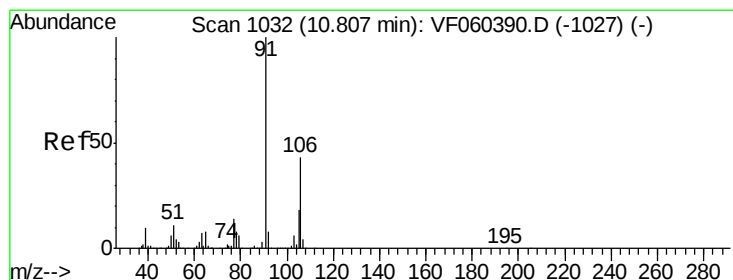
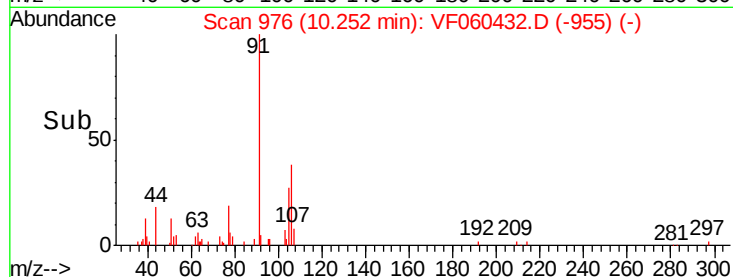
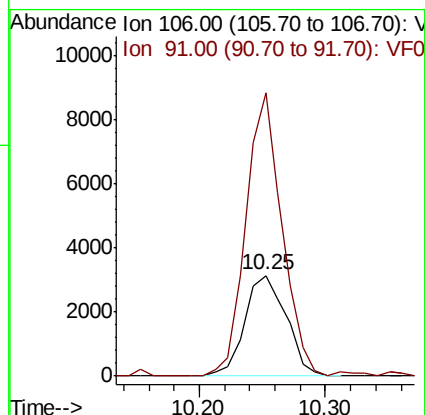
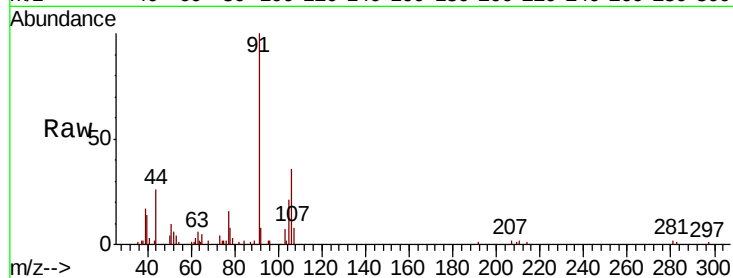




#68
m/p-Xylenes
Concen: 1.877 ug/l
RT: 10.25 min Scan# 976
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

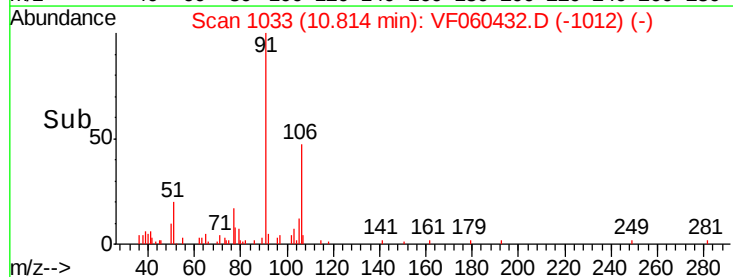
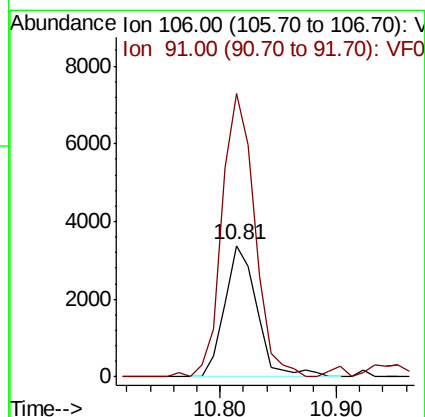
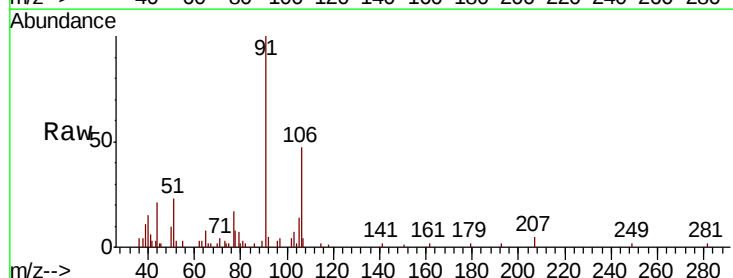
Instrument :
MSVOA_F
ClientSampleId :
CL-01-100218-C

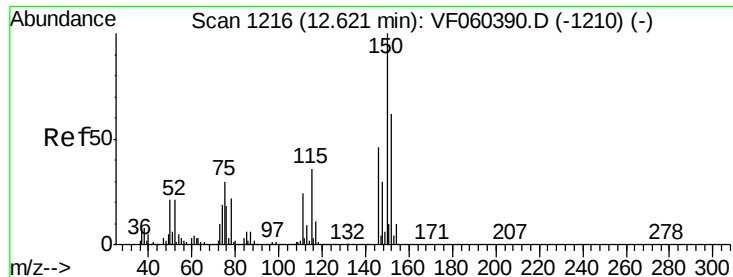
Tot Ion:106 Resp: 7152
Ion Ratio Lower Upper
106 100
91 280.4 175.0 262.6#



#69
o-Xylene
Concen: 1.570 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Tgt Ion:106 Resp: 6522
Ion Ratio Lower Upper
106 100
91 215.0 115.1 345.2



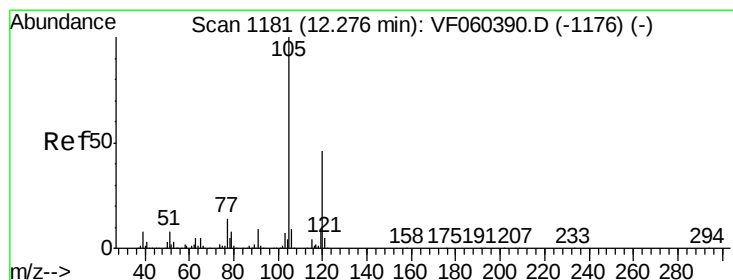
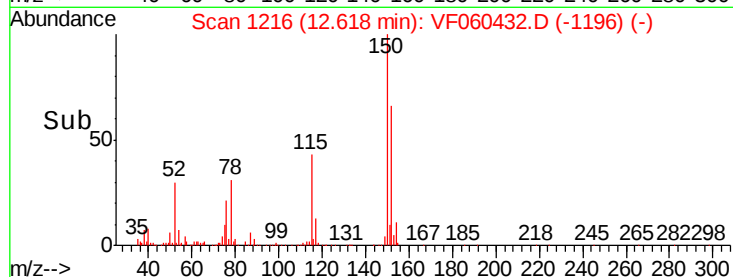
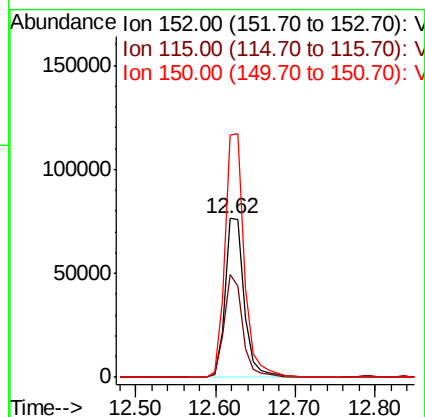
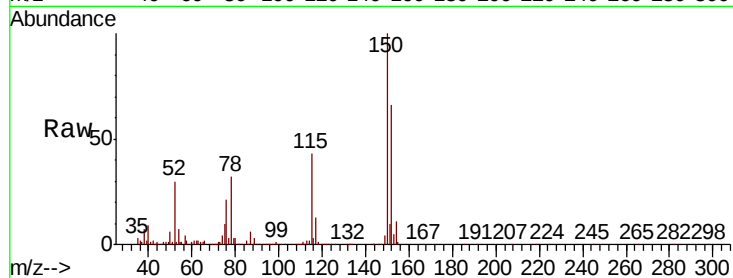


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.00 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Instrument :
MSVOA_F
ClientSampleId :
CL-01-100218-C

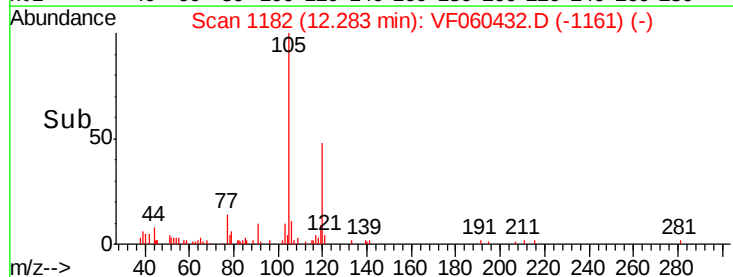
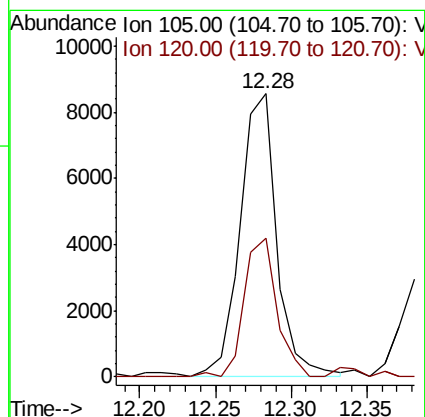
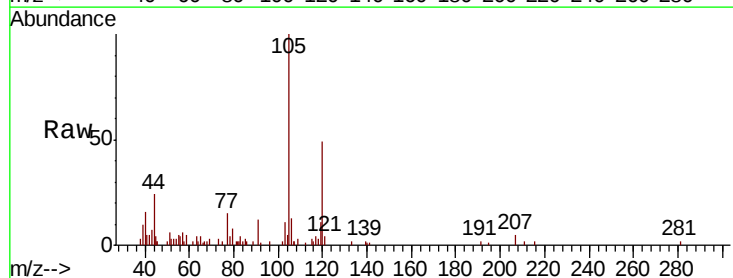
Tot Ion	152	Resp	130605
Ion Ratio	100		
Lower			
Upper			
115	64.7	28.6	85.8
150	152.3	0.0	324.6

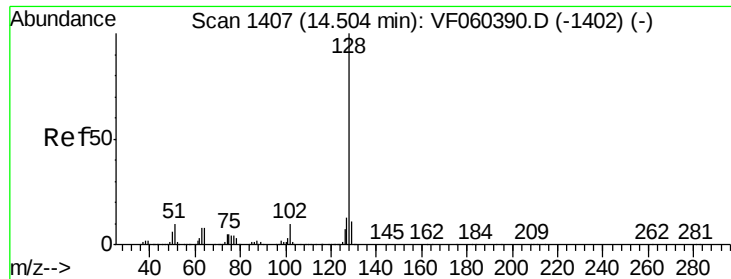


#84

1,2,4-Trimethylbenzene
Concen: 1.664 ug/l
RT: 12.28 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Tgt Ion	105	Resp	14422
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
120	48.8	23.1	69.2

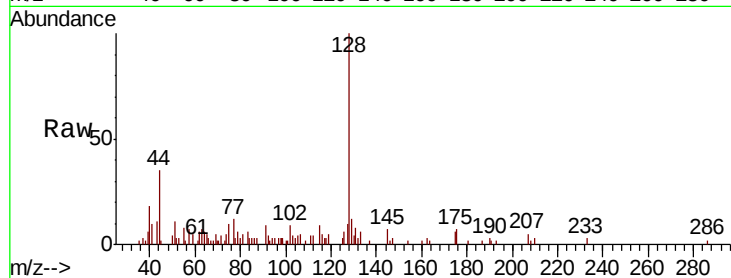




#95
Naphthalene
Concen: 1.863 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. 0.02 min
Lab File: VF060432.D
Acq: 3 Oct 2018 23:19

Instrument :
MSVOA_F
ClientSampleId :
CL-01-100218-C

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.0	15.0
129	11.8	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

