

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF103018\
 Data File : VF060548.D
 Acq On : 30 Oct 2018 16:48
 Operator : VA/AP
 Sample : J5711-05
 Misc : 5.93/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-6

Quant Time: Oct 31 04:52:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F102918S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 30 05:31:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	173941	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.77	114	291199	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	209629	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	92338	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	194064	72.33	ug/l	-0.01
Spiked Amount			Recovery	=	144.66%	
35) Dibromofluoromethane	4.29	113	171134	61.24	ug/l	-0.01
Spiked Amount			Recovery	=	122.48%	
50) Toluene-d8	7.70	98	297868	43.65	ug/l	-0.02
Spiked Amount			Recovery	=	87.30%	
62) 4-Bromofluorobenzene	11.51	95	121263	38.57	ug/l	-0.01
Spiked Amount			Recovery	=	77.14%	

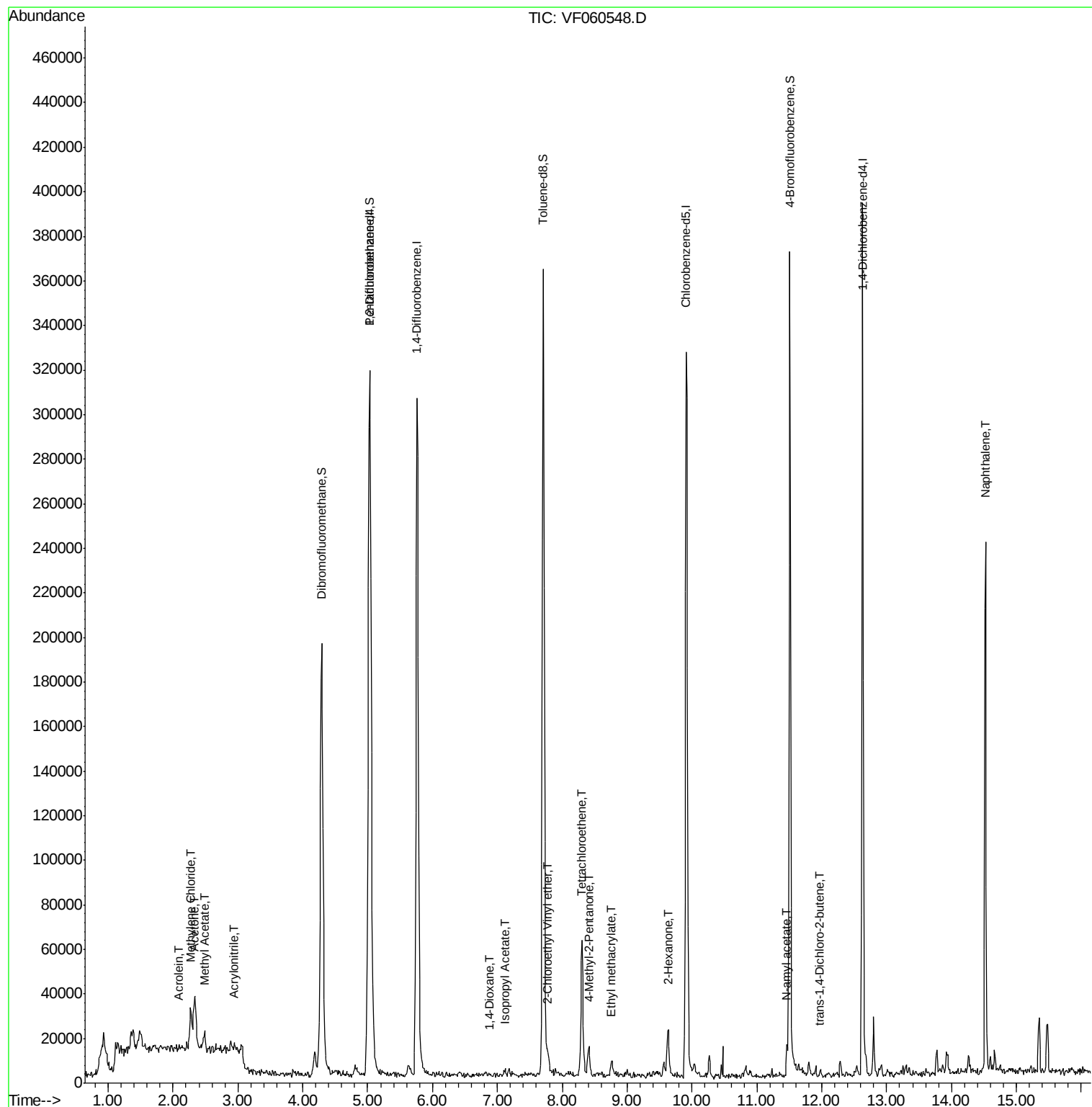
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	85	Below Cal	#	41
3) Chloromethane	1.12	50	1058	Below Cal		96
9) 1,1,2-Trichlorotrifluoroet	1.97	101	115	Below Cal	#	59
11) Tert butyl alcohol	2.69	59	739	Below Cal	#	1
13) Acrolein	2.09	56	441	1.744	ug/l #	52
15) Acrylonitrile	2.95	53	606	2.259	ug/l	96
16) Acetone	2.34	43	26819	44.048	ug/l #	85
18) Methyl Acetate	2.48	43	4360	7.934	ug/l #	61
20) Methylene Chloride	2.27	84	7185	3.139	ug/l	85
25) 2-Butanone	4.52	43	3565	Below Cal	#	50
29) Tetrahydrofuran	4.28	42	1071	Below Cal	#	48
43) Isopropyl Acetate	7.12	43	3805	2.676	ug/l #	87
49) 1,4-Dioxane	6.88	88	248	27.186	ug/l #	4
51) 4-Methyl-2-Pentanone	8.41	43	12964	12.588	ug/l #	83
56) Ethyl methacrylate	8.75	69	3720	2.369	ug/l #	82
58) 2-Chloroethyl Vinyl ether	7.78	63	622	3.843	ug/l	100
59) 2-Hexanone	9.62	43	22428	30.030	ug/l	95
64) Tetrachloroethene	8.30	164	13982	7.890	ug/l	87
74) N-amyl acetate	11.46	43	9818	6.946	ug/l #	88
81) trans-1,4-Dichloro-2-buten	11.96	75	502	1.297	ug/l #	15
89) n-Butylbenzene	12.92	91	2565	Below Cal		70
95) Naphthalene	14.52	128	171172	44.234	ug/l	98

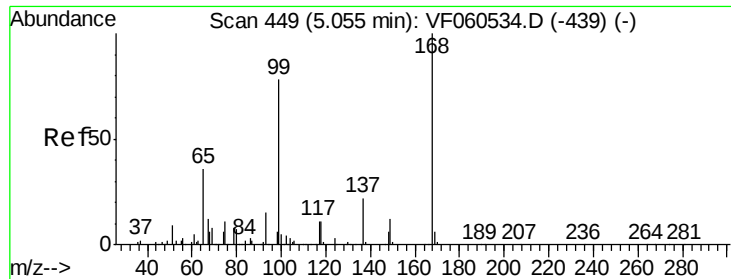
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 30 05:31:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 447

Delta R.T. -0.01 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

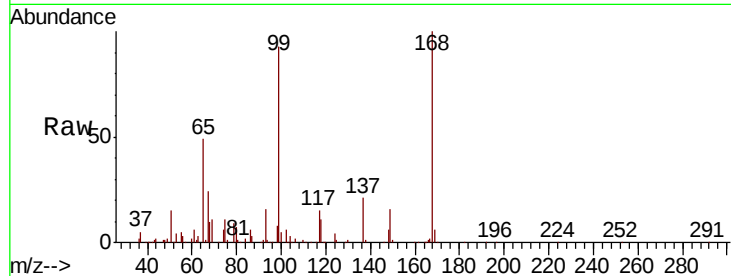
SB-6

Tot Ion:168 Resp: 173941

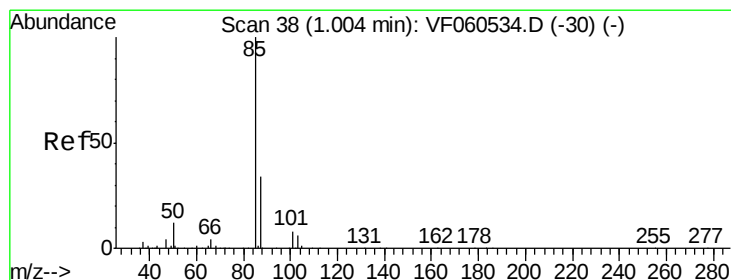
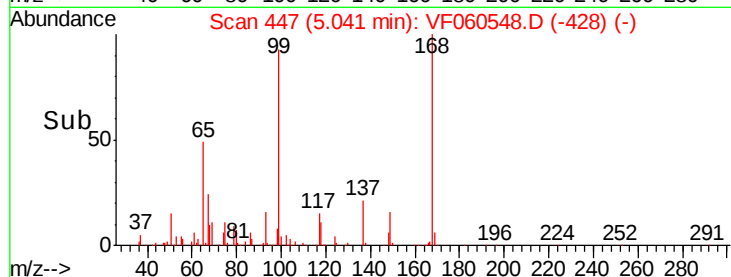
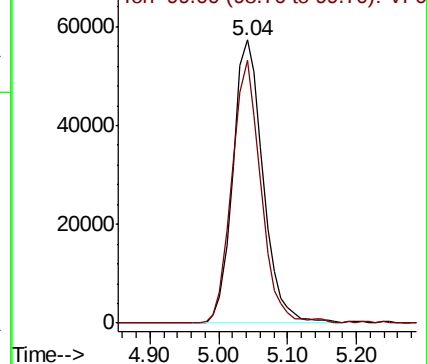
Ion Ratio Lower Upper

168 100

99 93.1 62.6 93.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 34

Delta R.T. -0.03 min

Lab File: VF060548.D

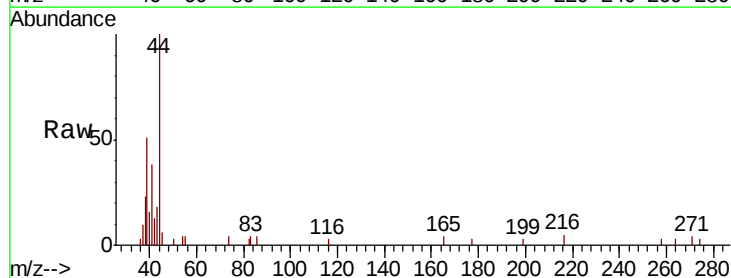
Acq: 30 Oct 2018 16:48

Tgt Ion: 85 Resp: 85

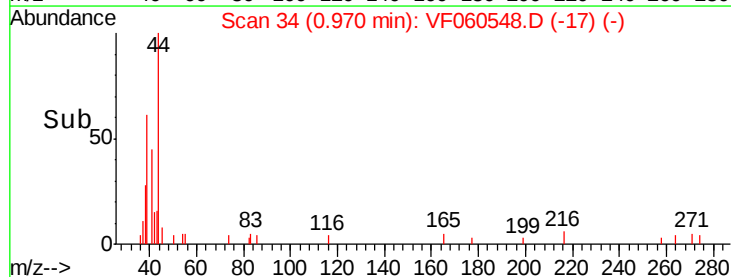
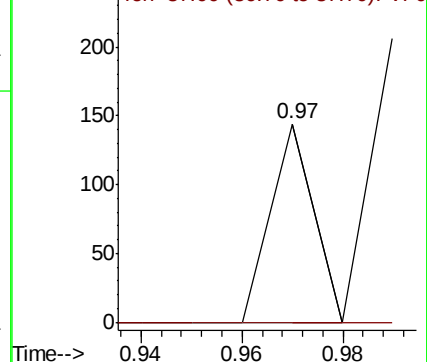
Ion Ratio Lower Upper

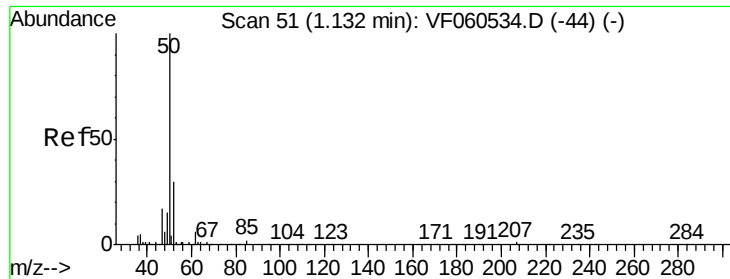
85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: Below Cal

RT: 1.12 min Scan# 49

Delta R.T. -0.01 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampled :

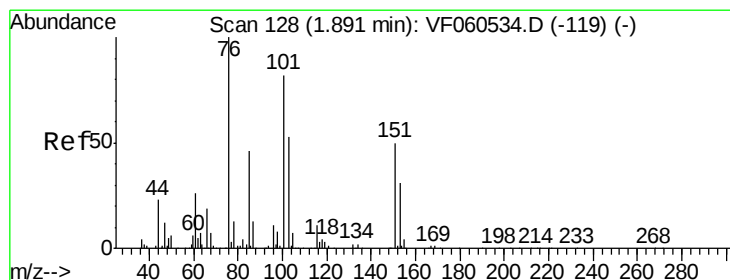
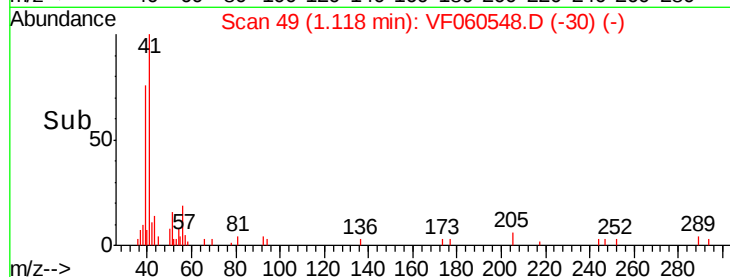
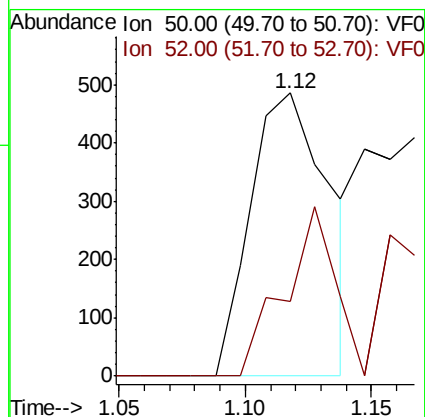
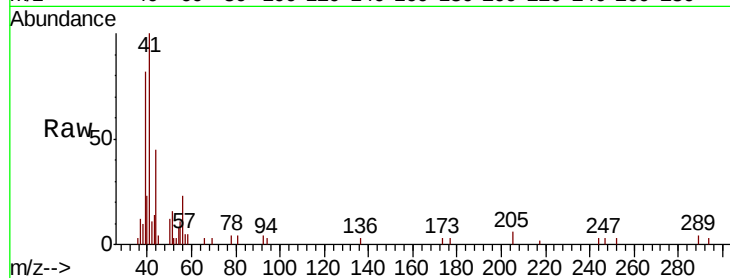
SB-6

Tot Ion: 50 Resp: 1058

Ion Ratio Lower Upper

50 100

52 26.3 22.8 34.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: Below Cal

RT: 1.97 min Scan# 135

Delta R.T. 0.07 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

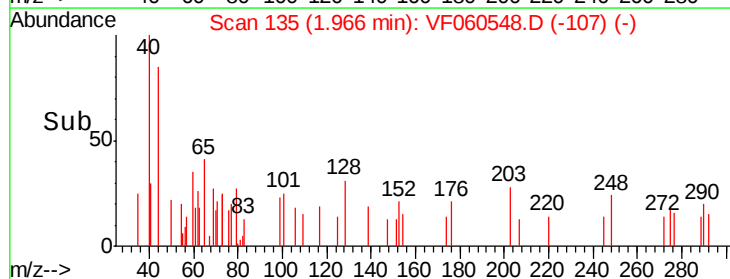
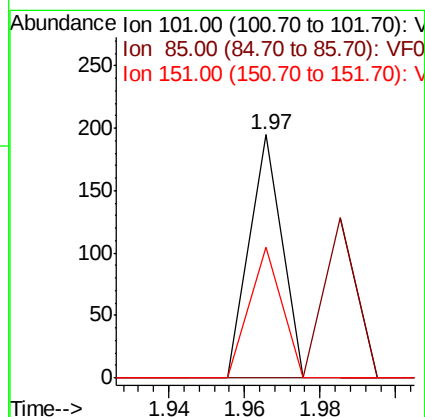
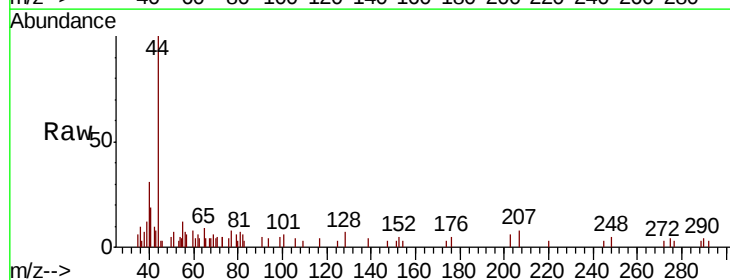
Tgt Ion: 101 Resp: 115

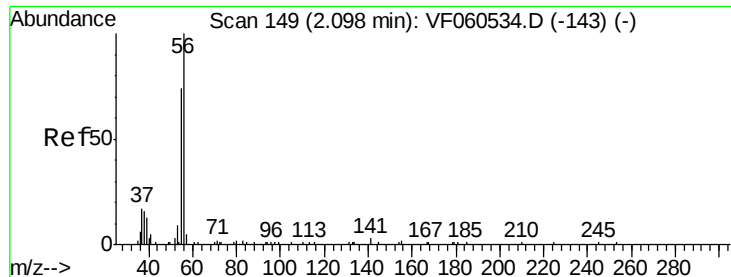
Ion Ratio Lower Upper

101 100

85 0.0 44.6 67.0#

151 53.8 48.4 72.6





#13

Acrolein

Concen: 1.744 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampled :

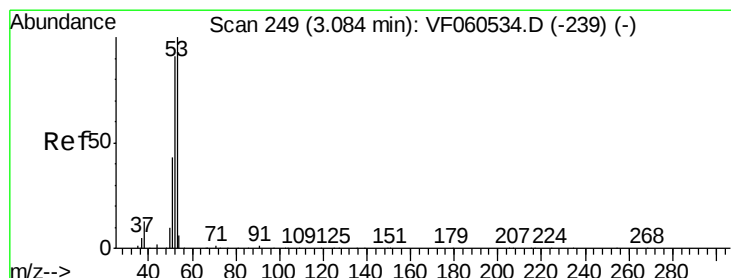
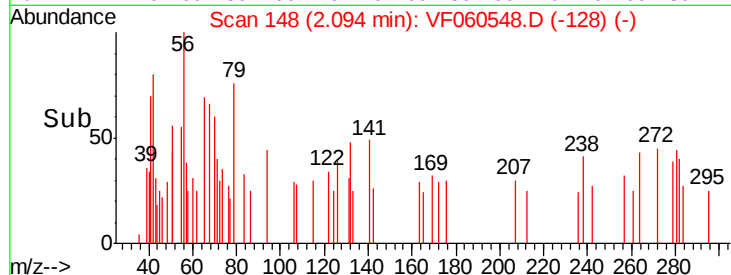
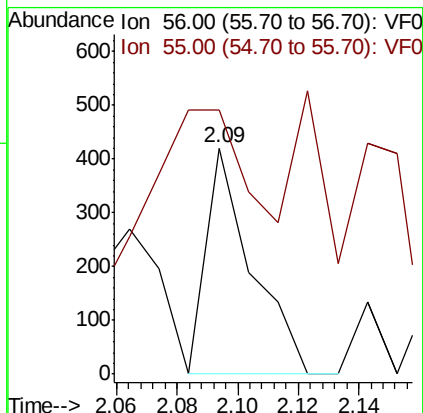
SB-6

Tot Ion: 56 Resp: 441

Ion Ratio Lower Upper

56 100

55 116.9 60.4 90.6#



#15

Acrylonitrile

Concen: 2.259 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.13 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

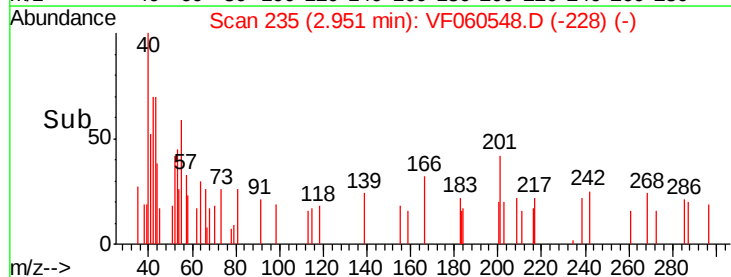
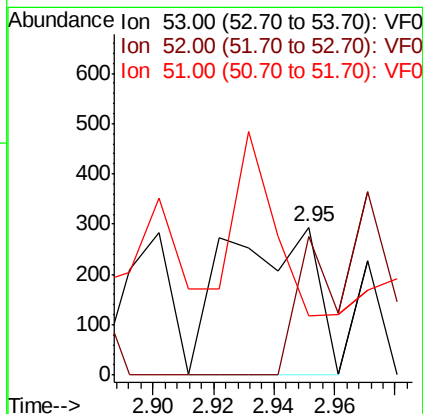
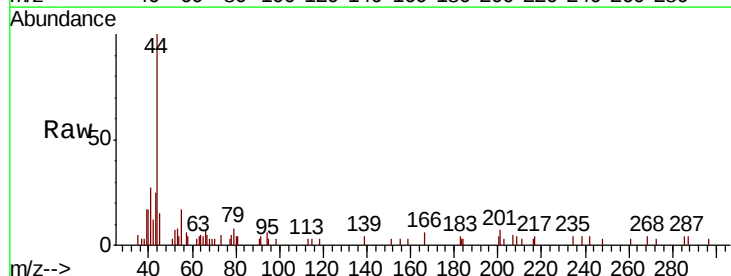
Tgt Ion: 53 Resp: 606

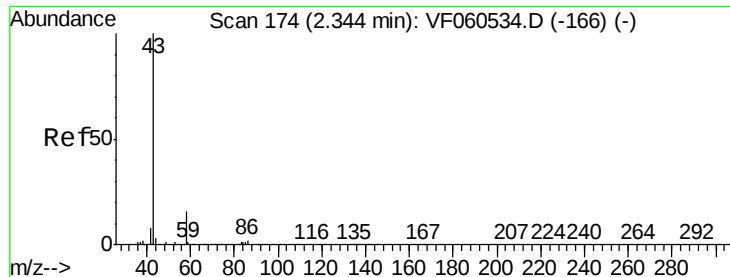
Ion Ratio Lower Upper

53 100

52 93.9 73.2 109.8

51 39.8 35.0 52.4





#16

Acetone

Concen: 44.048 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

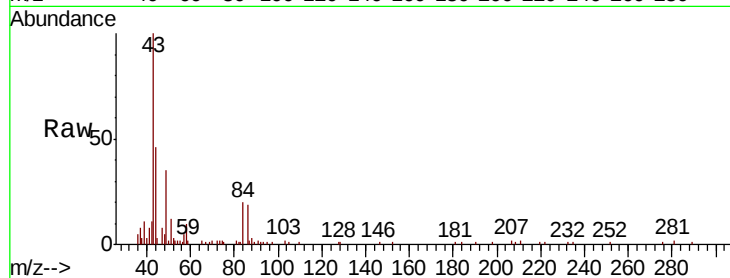
SB-6

Tot Ion: 43 Resp: 26819

Ion Ratio Lower Upper

43 100

58 9.7 12.8 19.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.34

10000

8000

6000

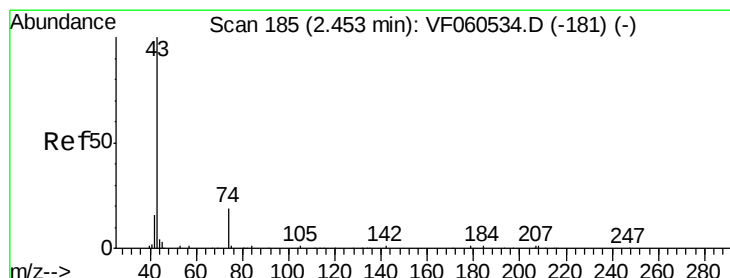
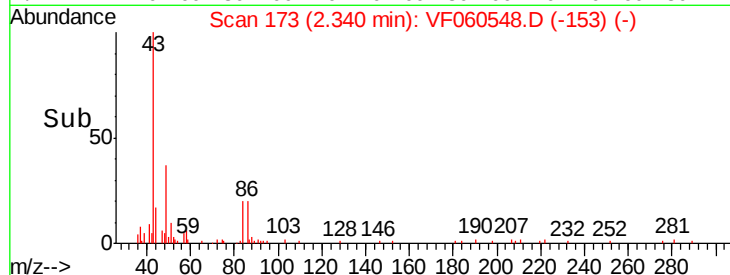
4000

2000

0

Time-->

2.20 2.30 2.40



#18

Methyl Acetate

Concen: 7.934 ug/l

RT: 2.48 min Scan# 187

Delta R.T. 0.03 min

Lab File: VF060548.D

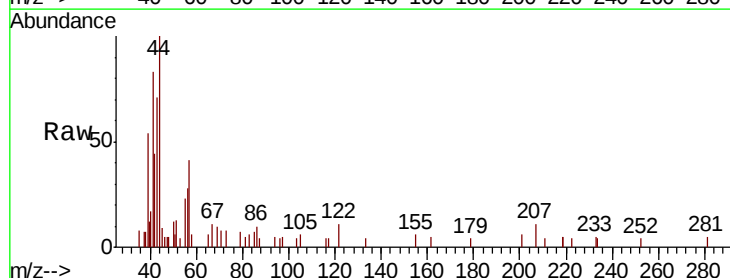
Acq: 30 Oct 2018 16:48

Tgt Ion: 43 Resp: 4360

Ion Ratio Lower Upper

43 100

74 0.0 13.5 20.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.48

2000

1500

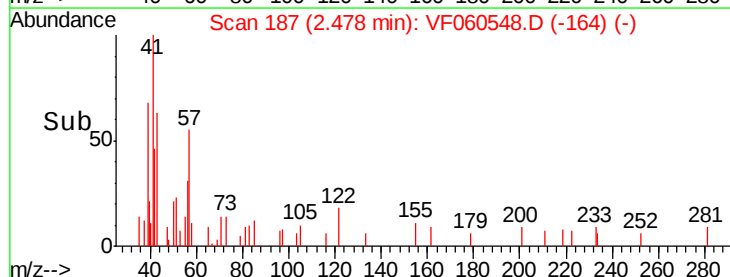
1000

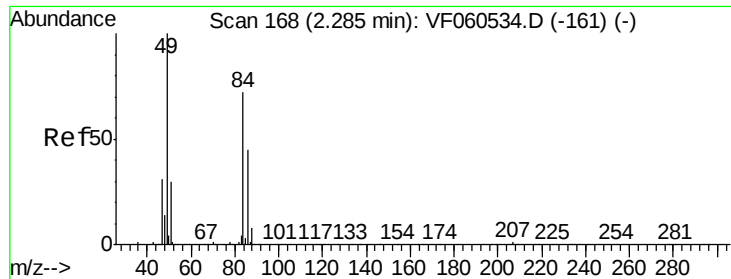
500

0

Time-->

2.45 2.50 2.55

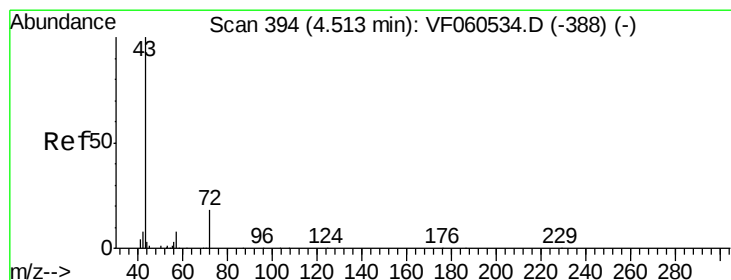
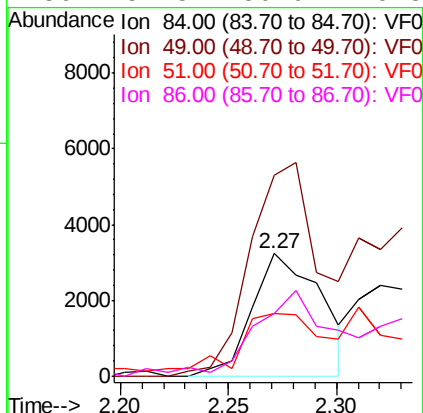
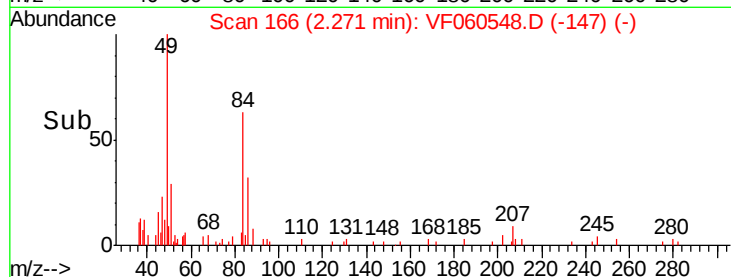
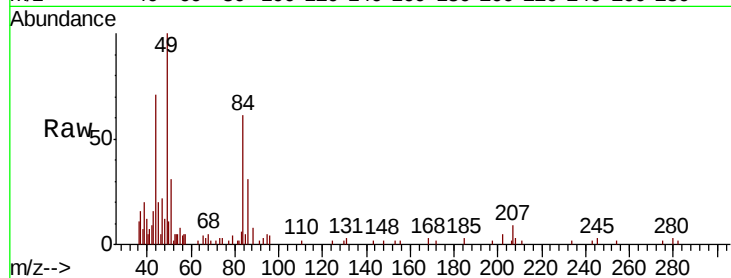




#20
Methvlene Chloride
Concen: 3.139 ug/l
RT: 2.27 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

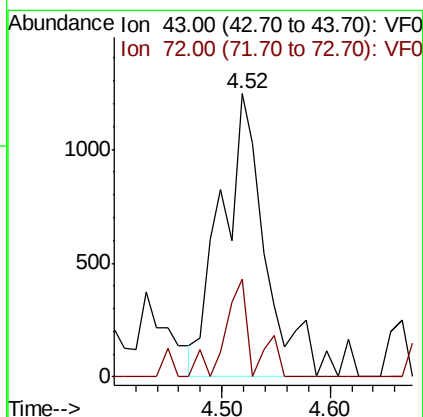
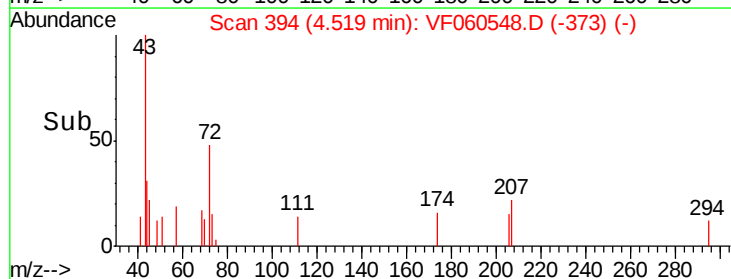
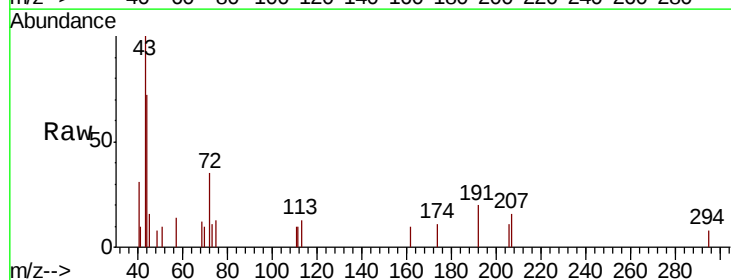
Instrument :
MSVOA_F
ClientSampleId :
SB-6

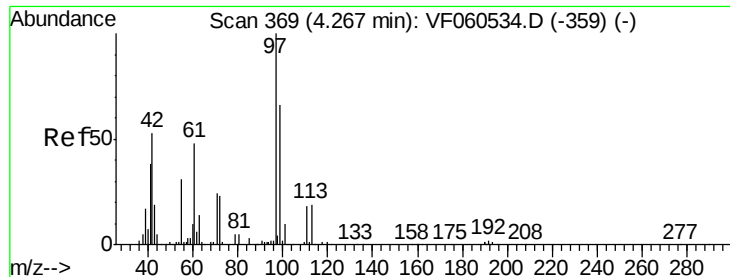
Tot Ion:	84	Resp:	7185
Ion	Ratio	Lower	Upper
84	100		
49	164.2	115.4	173.0
51	51.5	35.4	53.2
86	51.5	50.9	76.3



#25
2-Butanone
Concen: Below Cal
RT: 4.52 min Scan# 394
Delta R.T. 0.01 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

Tgt Ion:	43	Resp:	3565
Ion	Ratio	Lower	Upper
43	100		
72	45.5	17.4	26.0#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.28 min Scan# 370

Delta R.T. 0.02 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampleID :

SB-6

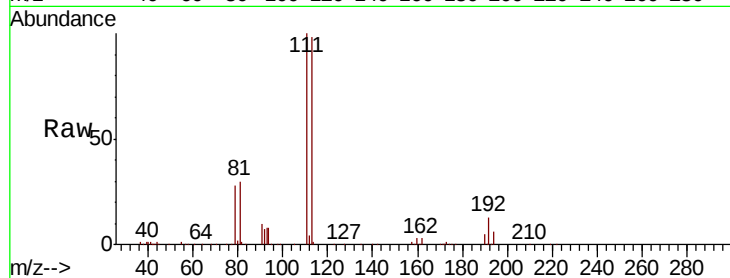
Tot Ion: 42 Resp: 1071

Ion Ratio Lower Upper

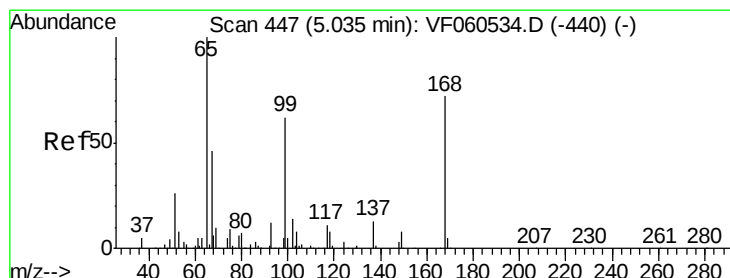
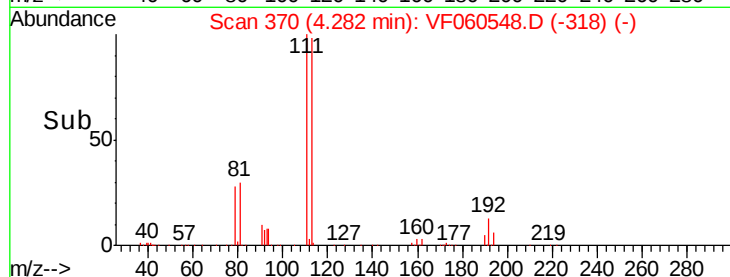
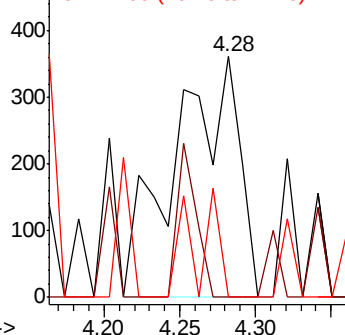
42 100

72 0.0 32.5 48.7#

71 17.5 34.5 51.7#



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: 72.333 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF060548.D

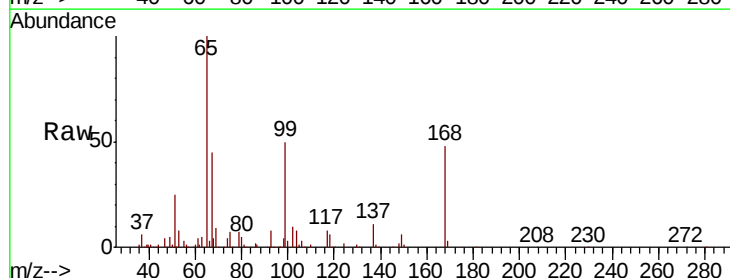
Acq: 30 Oct 2018 16:48

Tgt Ion: 65 Resp: 194064

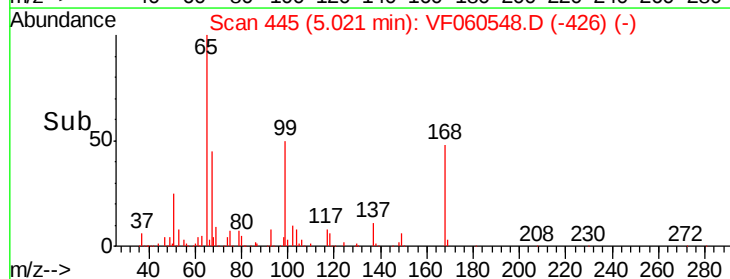
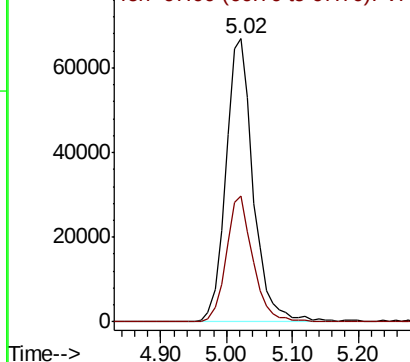
Ion Ratio Lower Upper

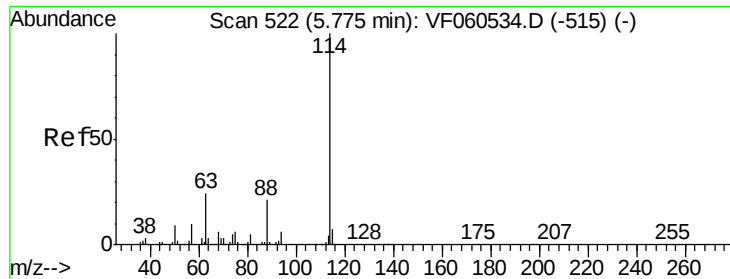
65 100

67 44.5 0.0 94.4



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: 5.77 min Scan# 521

Delta R.T. -0.00 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

SB-6

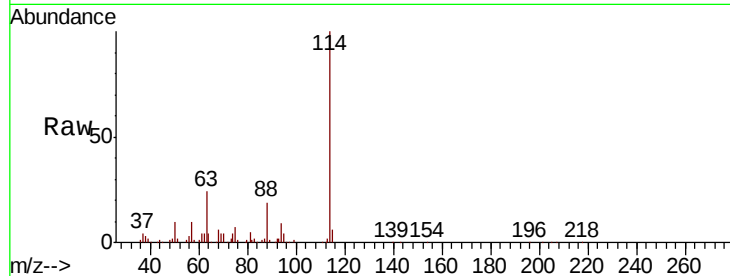
Tot Ion:114 Resp: 291199

Ion Ratio Lower Upper

114 100

63 24.3 0.0 48.0

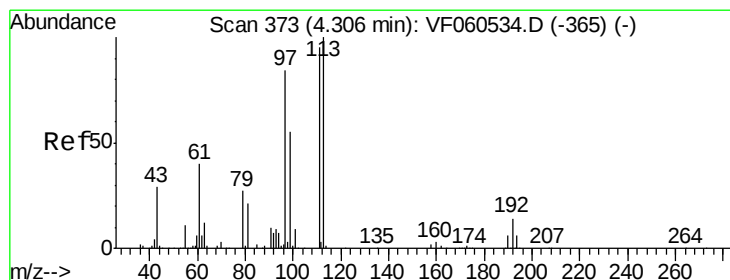
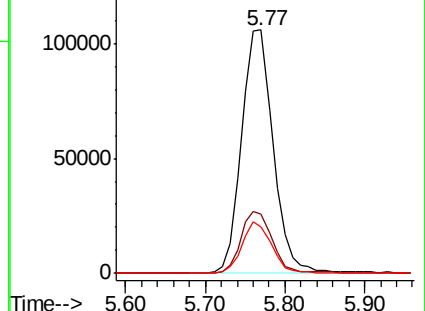
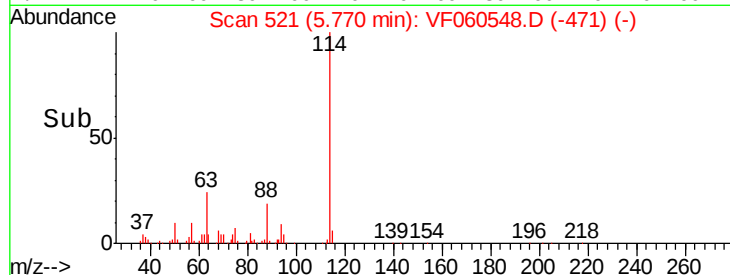
88 19.0 0.0 42.0



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: 61.245 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

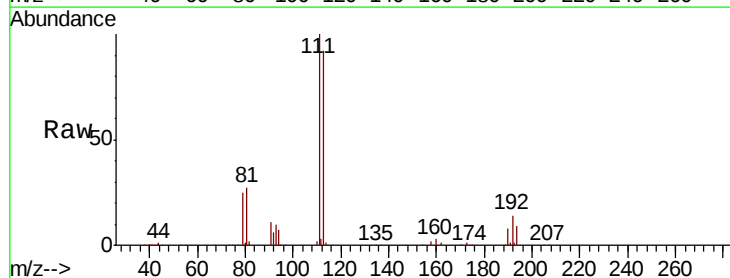
Tgt Ion:113 Resp: 171134

Ion Ratio Lower Upper

113 100

111 109.2 75.9 113.9

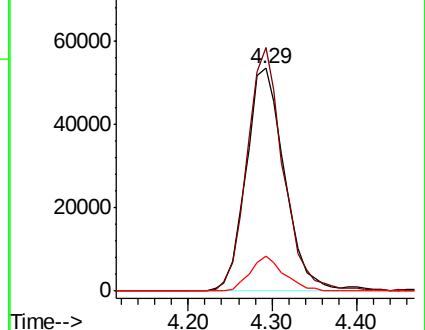
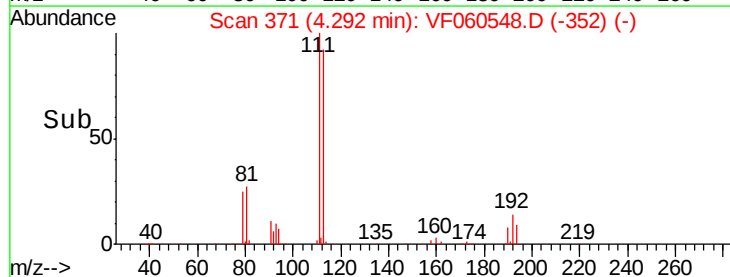
192 15.9 11.2 16.8

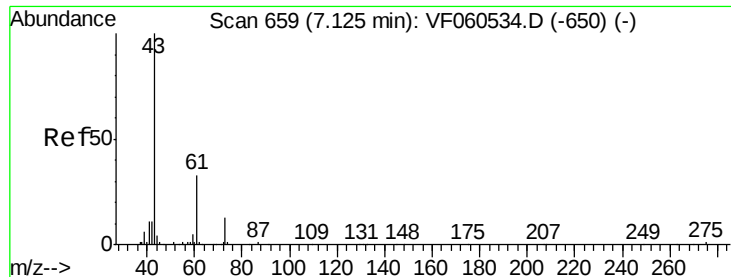


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 2.676 ug/l

RT: 7.12 min Scan# 658

Delta R.T. -0.00 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

SB-6

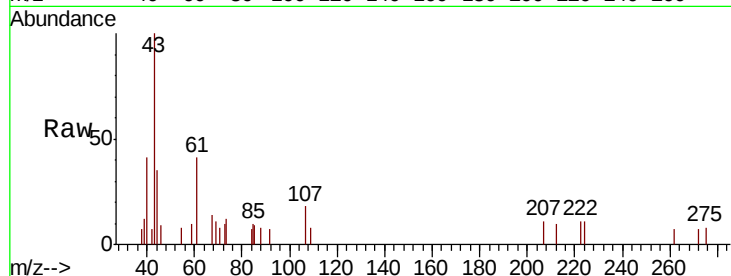
Tot Ion: 43 Resp: 3805

Ion Ratio Lower Upper

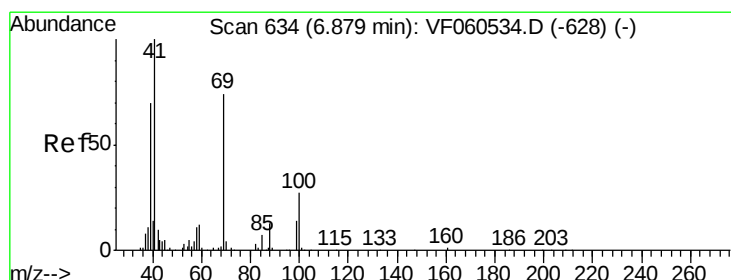
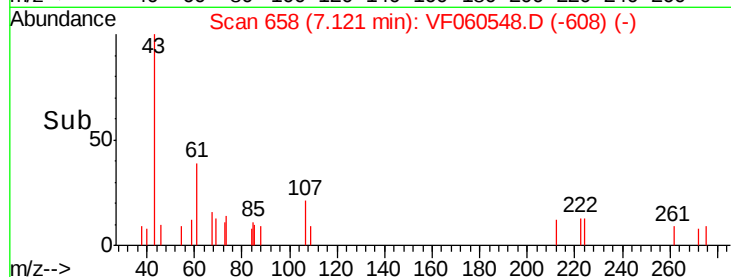
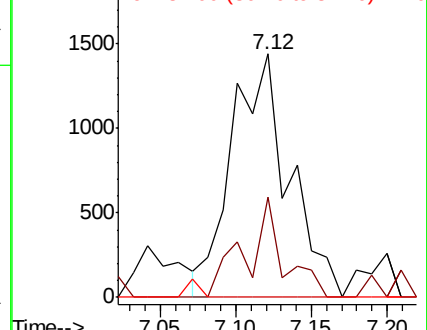
43 100

61 41.1 26.6 40.0#

87 0.0 0.6 1.0#



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



#49

1,4-Dioxane

Concen: 27.186 ug/l

RT: 6.88 min Scan# 634

Delta R.T. 0.01 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

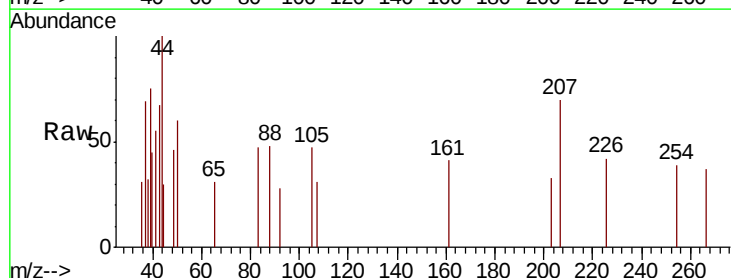
Tgt Ion: 88 Resp: 248

Ion Ratio Lower Upper

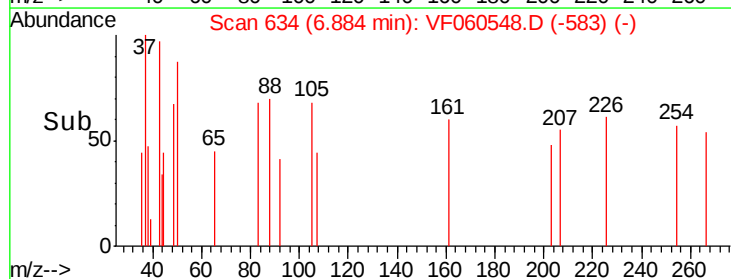
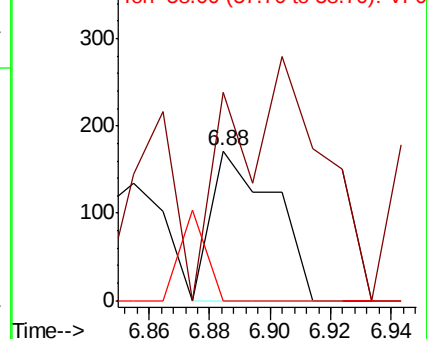
88 100

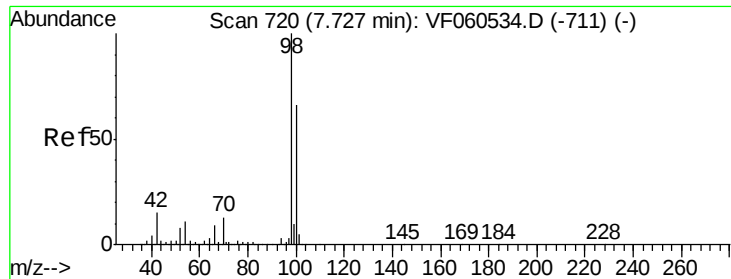
43 139.2 49.7 74.5#

58 0.0 67.7 101.5#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

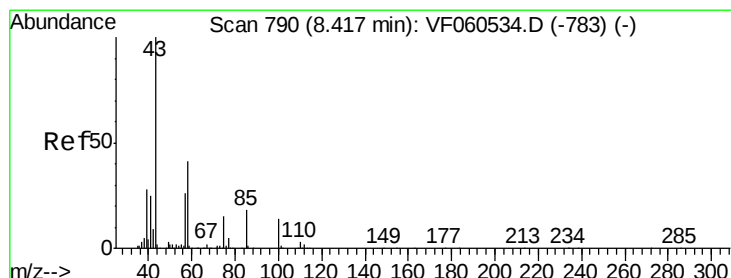
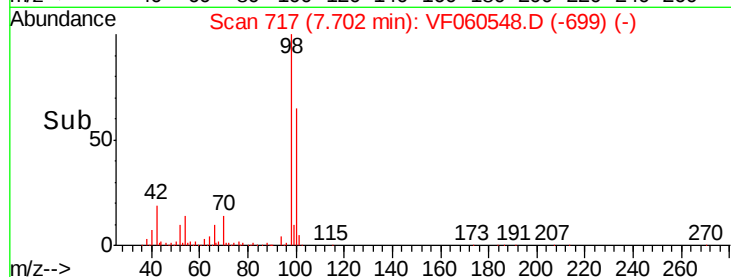
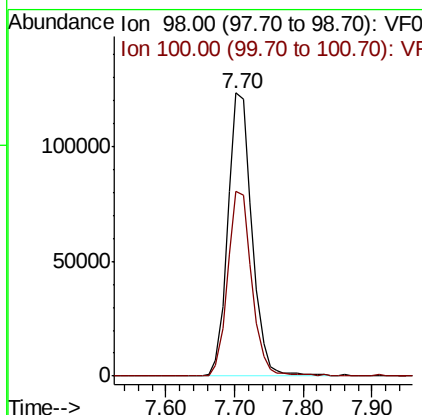
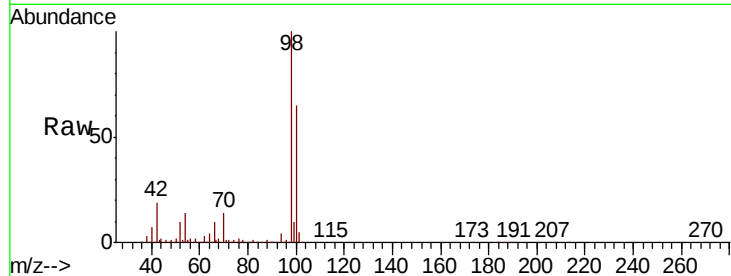




#50
Toluene-d8
Concen: 43.649 ug/l
RT: 7.70 min Scan# 717
Delta R.T. -0.02 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

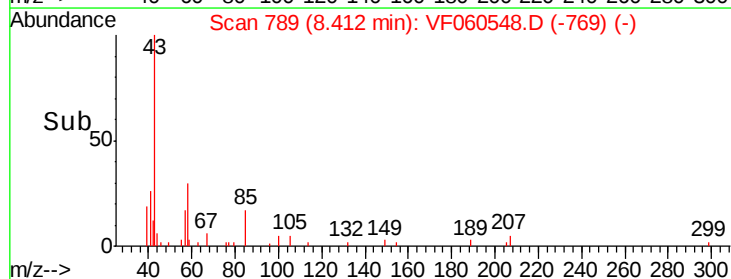
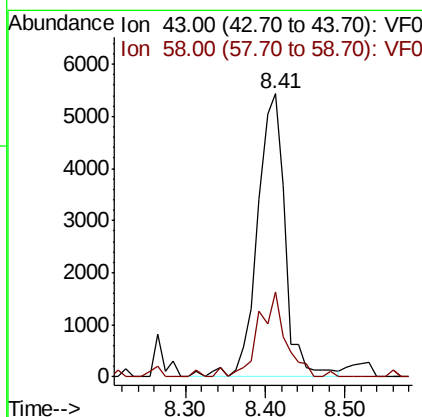
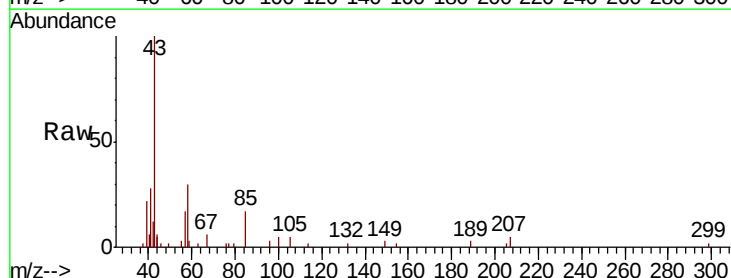
Instrument :
MSVOA_F
ClientSampled :
SB-6

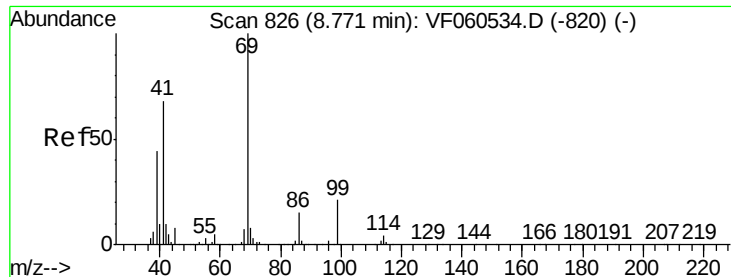
Tot Ion: 98 Resp: 297868
Ion Ratio Lower Upper
98 100
100 65.2 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 12.588 ug/l
RT: 8.41 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

Tgt Ion: 43 Resp: 12964
Ion Ratio Lower Upper
43 100
58 30.2 32.6 49.0#





#56

Ethyl methacrylate

Concen: 2.369 ug/l

RT: 8.75 min Scan# 823

Delta R.T. -0.02 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampled :

SB-6

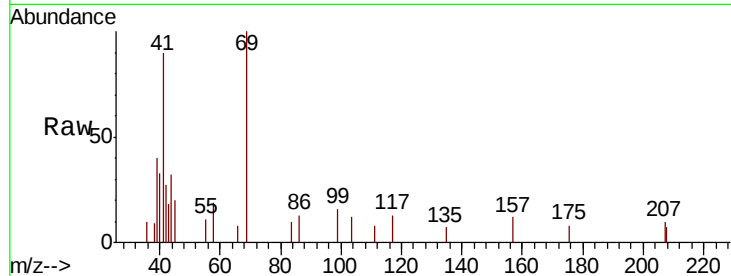
Tot Ion: 69 Resp: 3720

Ion Ratio Lower Upper

69 100

41 90.2 55.0 82.6#

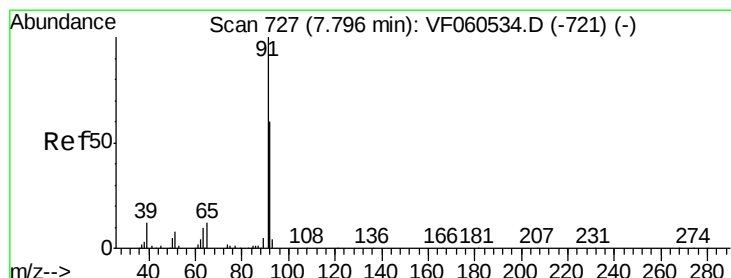
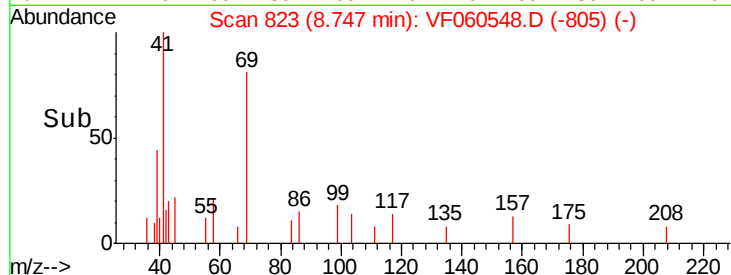
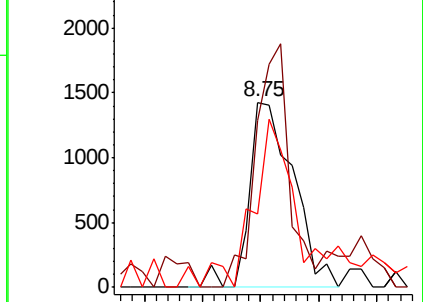
39 40.0 35.1 52.7



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 3.843 ug/l

RT: 7.78 min Scan# 725

Delta R.T. -0.01 min

Lab File: VF060548.D

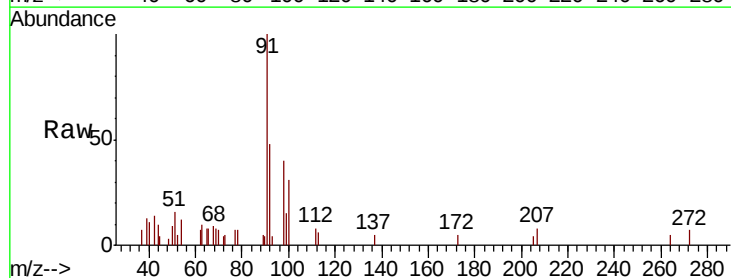
Acq: 30 Oct 2018 16:48

Tgt Ion: 63 Resp: 622

Ion Ratio Lower Upper

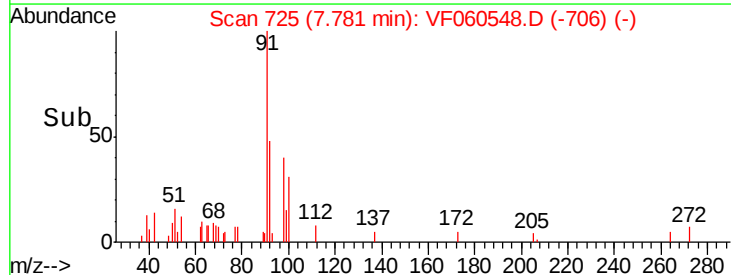
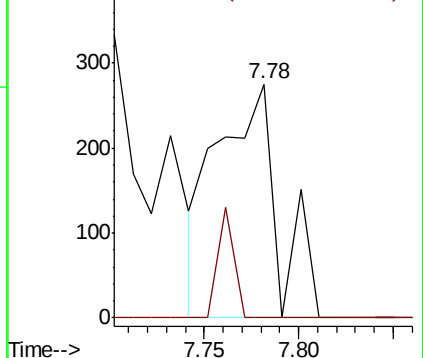
63 100

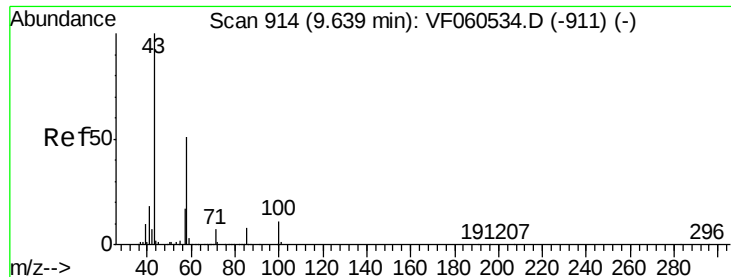
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

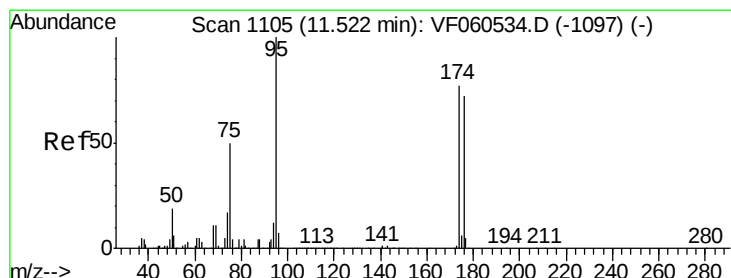
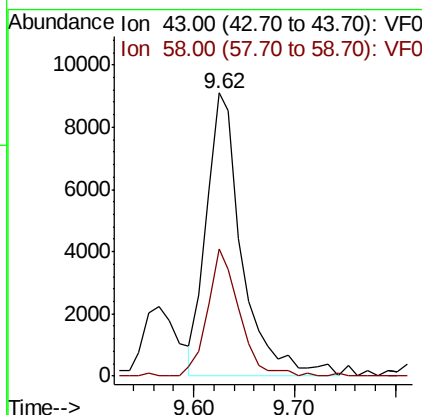
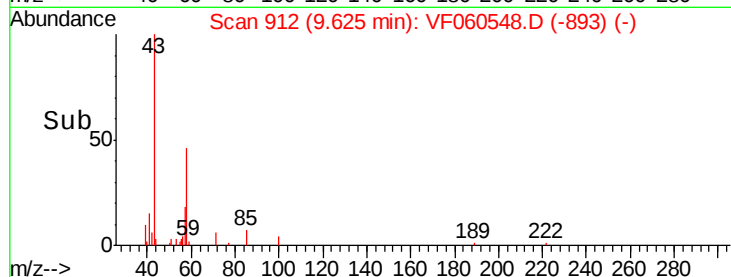
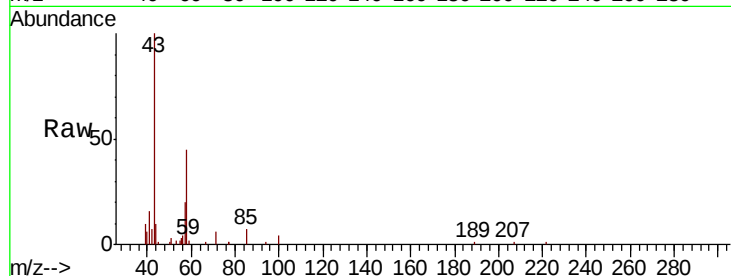




#59
2-Hexanone
Concen: 30.030 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.01 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

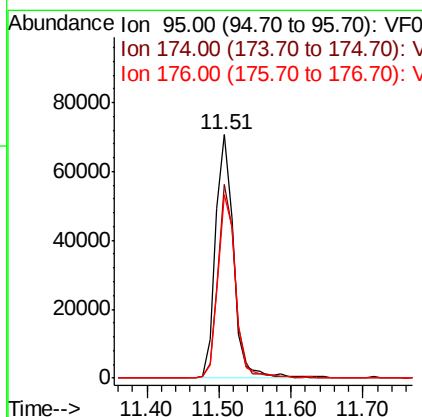
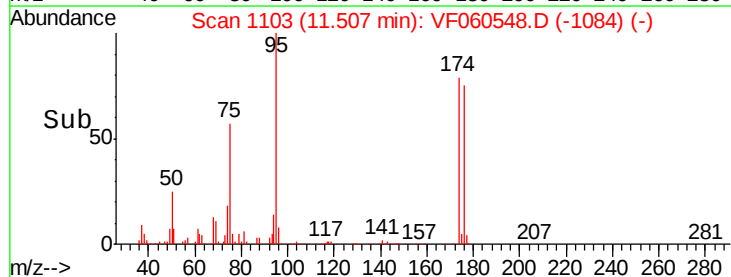
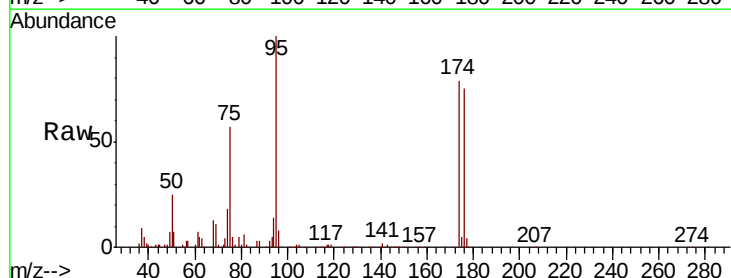
Instrument :
MSVOA_F
ClientSampled :
SB-6

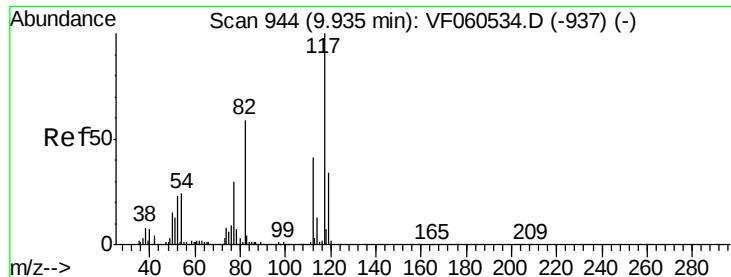
Tot Ion: 43 Resp: 22428
Ion Ratio Lower Upper
43 100
58 44.9 24.1 72.3



#62
4-Bromofluorobenzene
Concen: 38.565 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. -0.01 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

Tgt Ion: 95 Resp: 121263
Ion Ratio Lower Upper
95 100
174 79.4 0.0 153.8
176 75.5 0.0 143.6

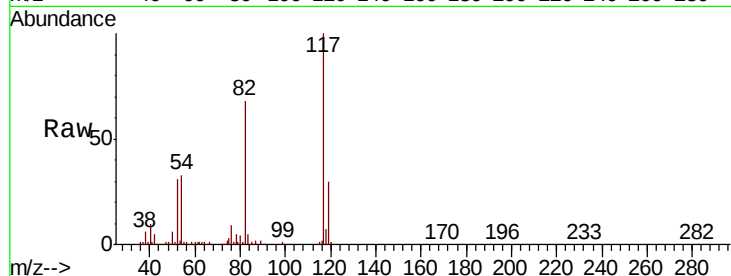




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.02 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

Instrument :
MSVOA_F
ClientSampleId :
SB-6

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.1	47.6	71.4
119	30.3	27.3	40.9

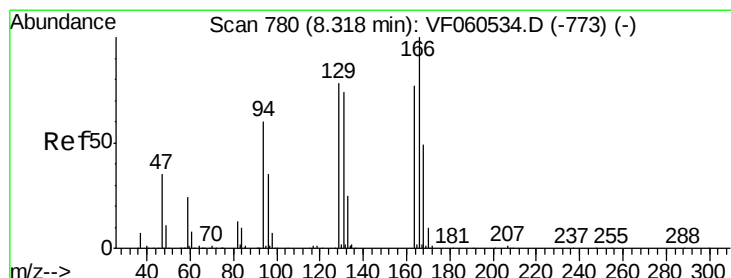
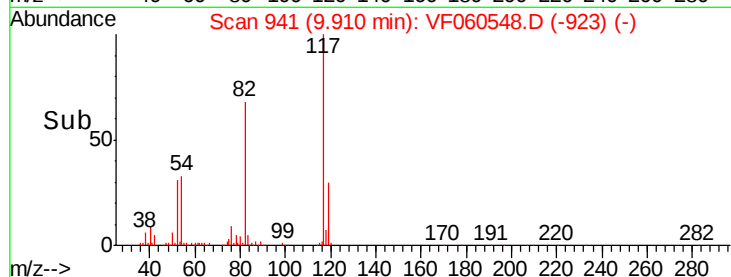
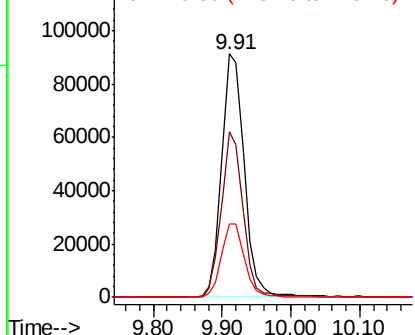


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 7.890 ug/l
RT: 8.30 min Scan# 778
Delta R.T. -0.01 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

Tgt Ion	Ratio	Lower	Upper
164	100		
166	142.6	103.4	155.2
129	115.4	80.7	121.1
131	109.5	76.3	114.5

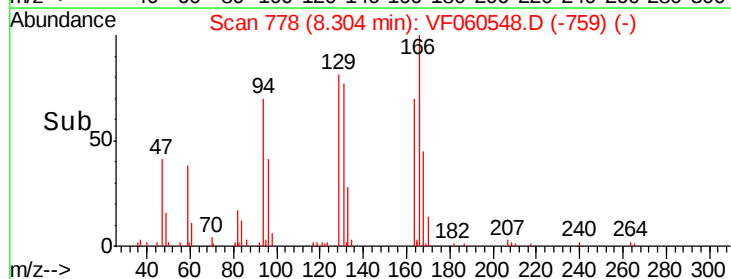
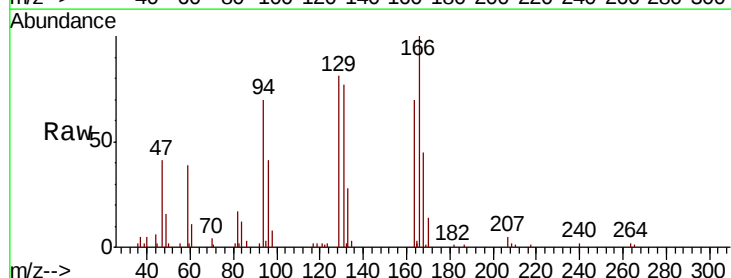
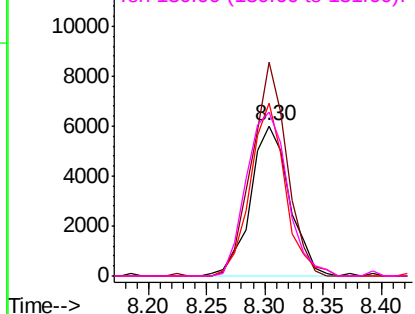
Abundance

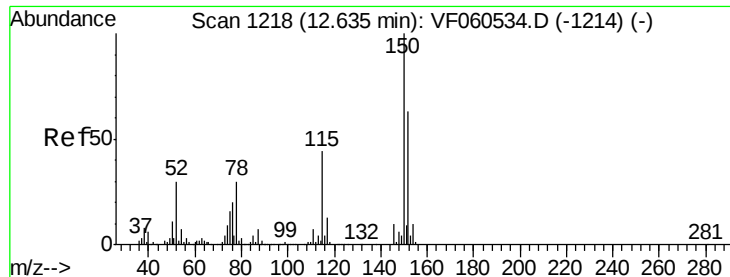
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



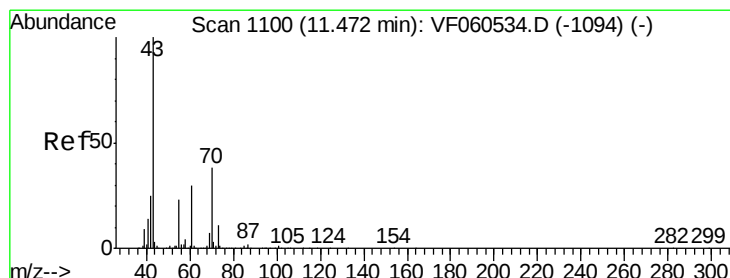
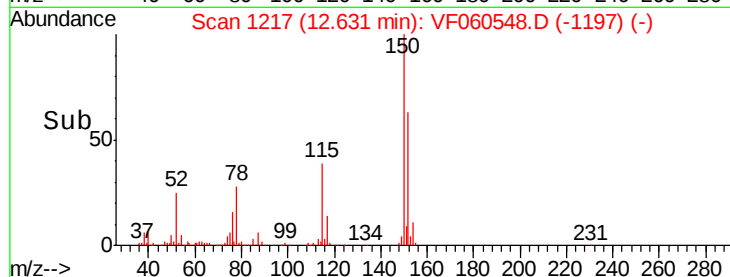
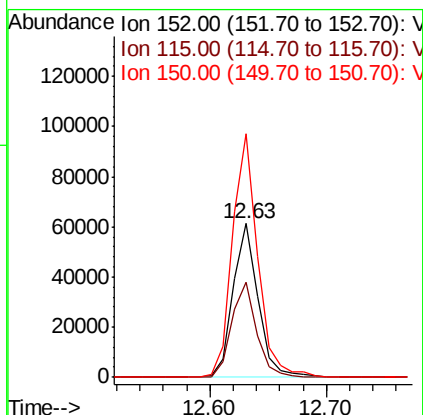
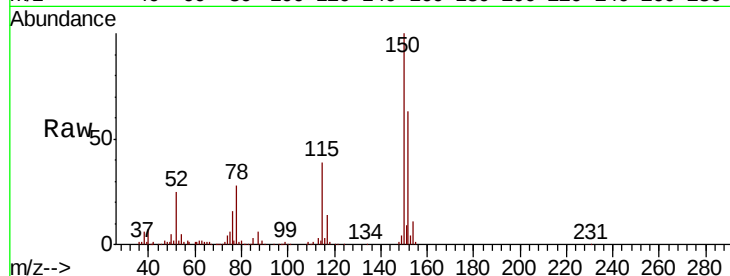


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

Instrument :
MSVOA_F
ClientSampleId :
SB-6

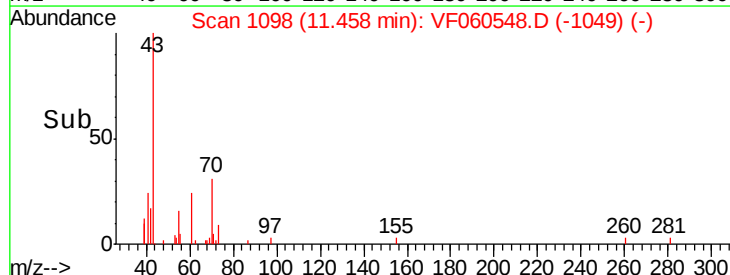
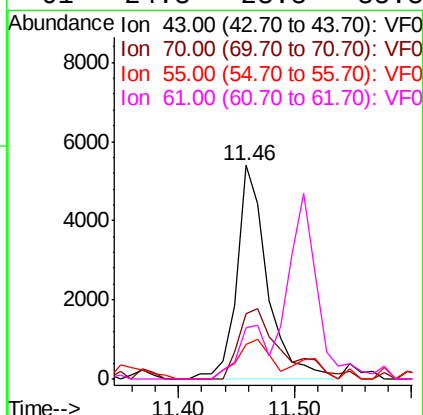
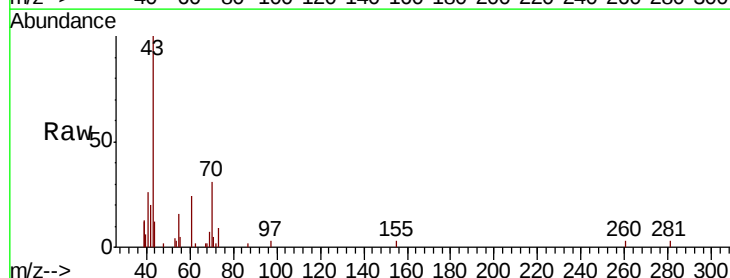
Tot Ion:152 Resp: 92338
Ion Ratio Lower Upper
152 100
115 62.0 34.7 104.1
150 158.3 0.0 318.4

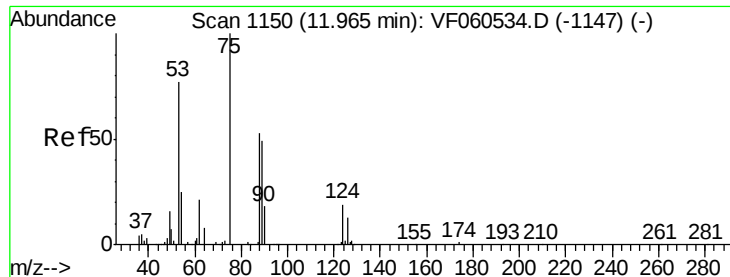


#74

N-ethyl acetate
Concen: 6.946 ug/l
RT: 11.46 min Scan# 1098
Delta R.T. -0.01 min
Lab File: VF060548.D
Acq: 30 Oct 2018 16:48

Tgt Ion: 43 Resp: 9818
Ion Ratio Lower Upper
43 100
70 30.8 30.8 46.2#
55 16.3 18.2 27.4#
61 24.3 23.8 35.8





#81

trans-1,4-Dichloro-2-butene

Concen: 1.297 ug/l

RT: 11.96 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampled :

SB-6

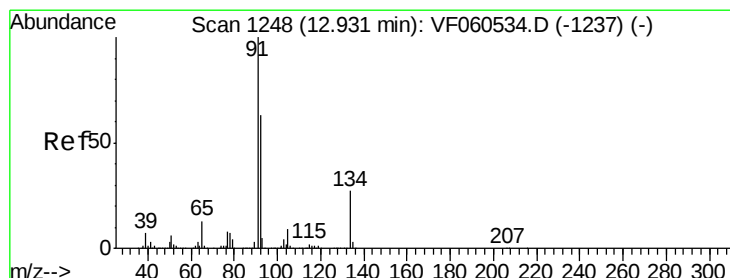
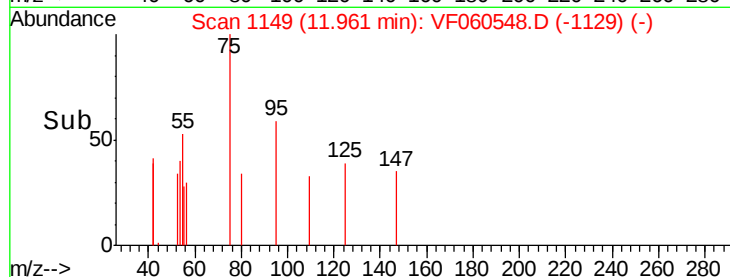
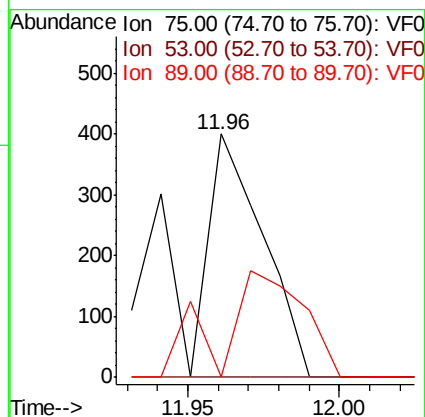
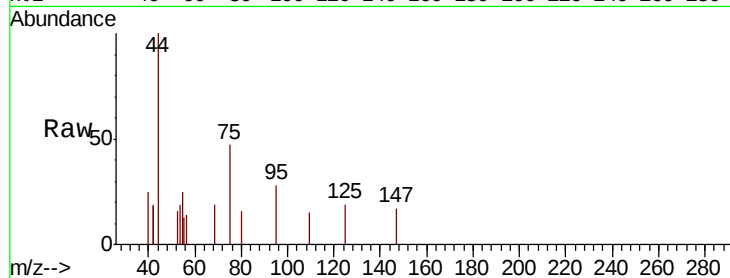
Tot Ion: 75 Resp: 502

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.6#

89 0.0 44.0 66.0#



#89

n-Butylbenzene

Concen: Below Cal

RT: 12.92 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

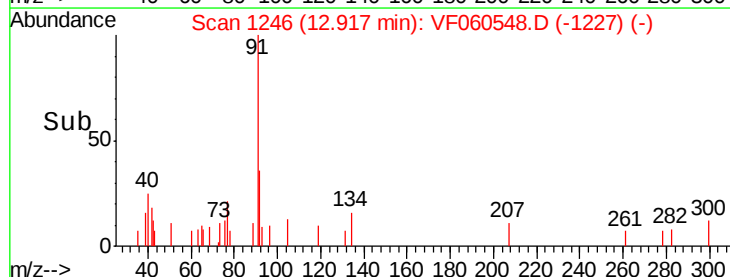
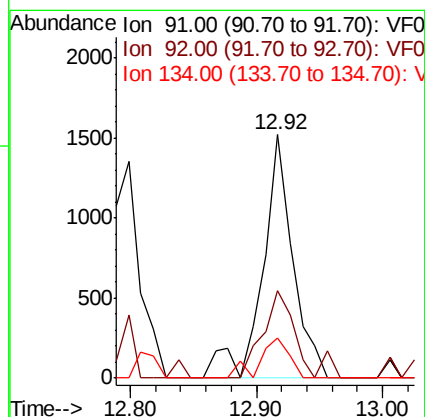
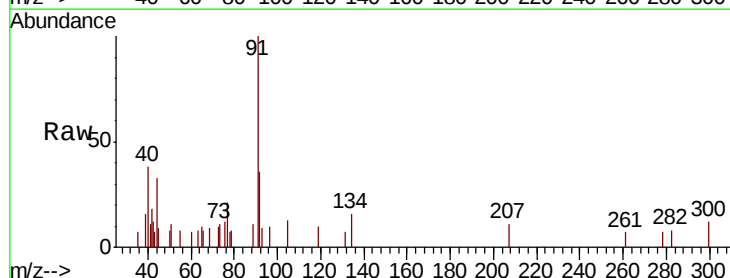
Tgt Ion: 91 Resp: 2565

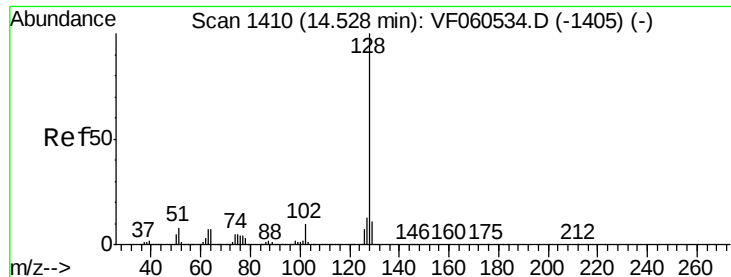
Ion Ratio Lower Upper

91 100

92 36.0 31.3 93.9

134 16.2 13.3 39.8





#95

Naphthalene

Concen: 44.234 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VF060548.D

Acq: 30 Oct 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

SB-6

Tot Ion:128 Resp: 171172

Ion Ratio Lower Upper

128 100

127 11.5 10.1 15.1

129 10.6 8.7 13.1

