

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060588.D
 Acq On : 5 Nov 2018 23:04
 Operator : VA/AP
 Sample : J5741-59RE
 Misc : 6.97/5mL/MSVOA-F/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 06:58:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	277273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	511995	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	448012	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	241881	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	124901	44.58	ug/l	0.00
Spiked Amount			Recovery	=	89.16%	
35) Dibromofluoromethane	4.12	113	170442	43.09	ug/l	0.01
Spiked Amount			Recovery	=	86.18%	
50) Toluene-d8	7.56	98	427004	36.44	ug/l	0.00
Spiked Amount			Recovery	=	72.88%	
62) 4-Bromofluorobenzene	11.42	95	202251	39.46	ug/l	0.00
Spiked Amount			Recovery	=	78.92%	

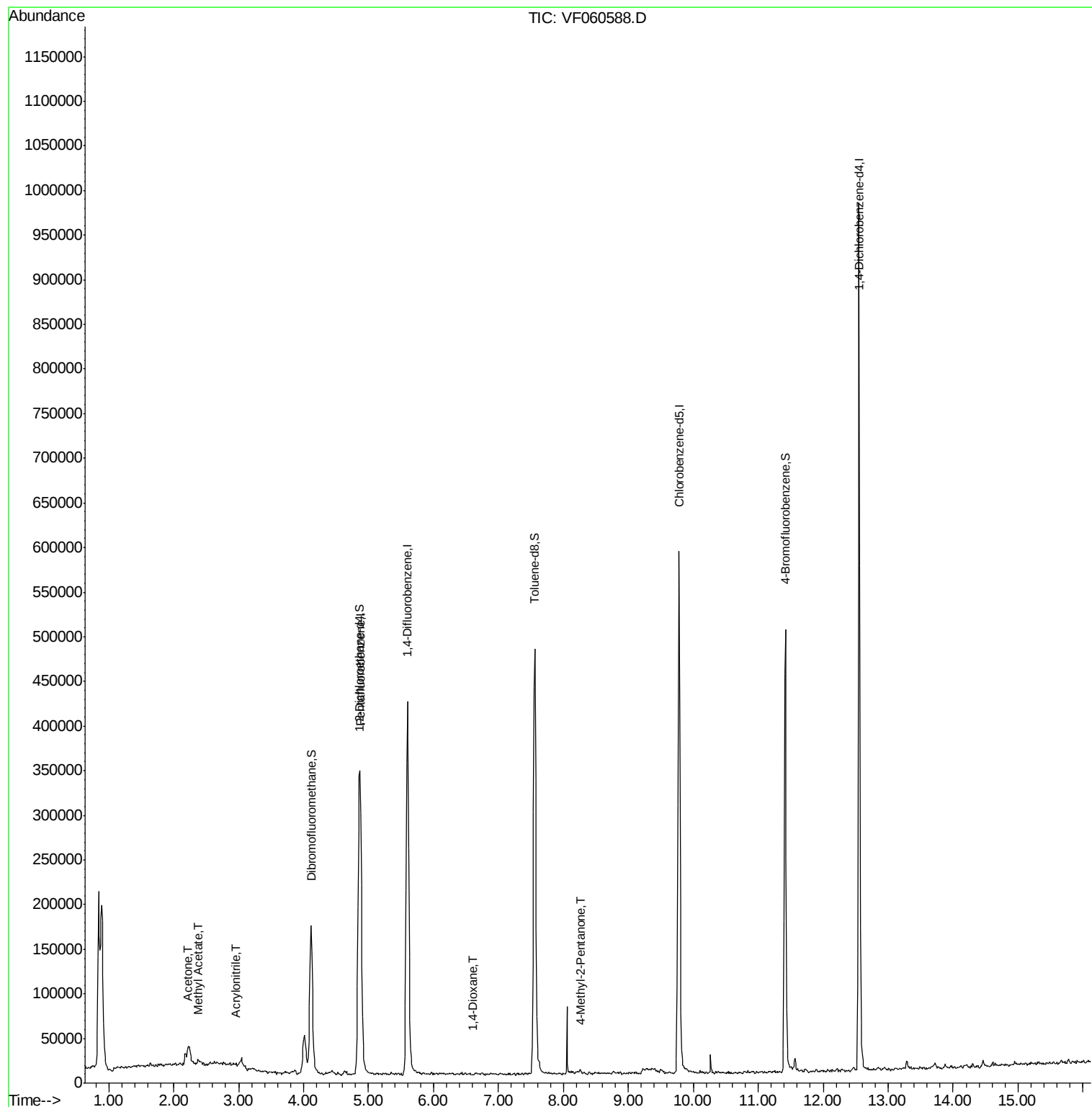
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	296	Below Cal	#	41
6) Chloroethane	1.37	64	142	Below Cal	#	40
13) Acrolein	2.01	56	572	Below Cal	#	75
15) Acrylonitrile	2.95	53	799	2.393	ug/l #	59
16) Acetone	2.23	43	20128	30.491	ug/l	93
18) Methyl Acetate	2.36	43	2874	3.255	ug/l #	84
20) Methylene Chloride	2.22	84	8684	Below Cal		87
25) 2-Butanone	4.36	43	3464	Below Cal	#	56
29) Tetrahydrofuran	4.01	42	1532	Below Cal	#	53
49) 1,4-Dioxane	6.59	88	72	3.199	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	5117	2.223	ug/l #	78
58) 2-Chloroethyl Vinyl ether	7.63	63	1080	Below Cal		100
59) 2-Hexanone	9.49	43	5685	Below Cal		83
74) N-amyl acetate	11.38	43	1014	Below Cal	#	67
89) n-Butylbenzene	12.85	91	1584	Below Cal		81

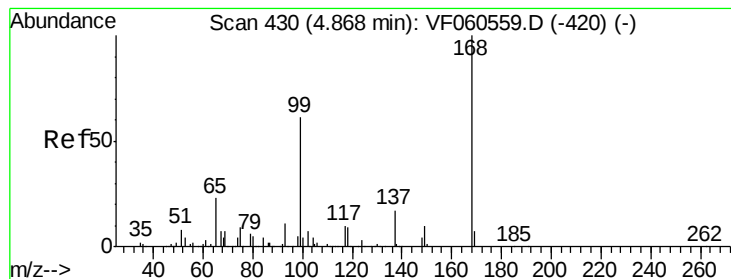
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

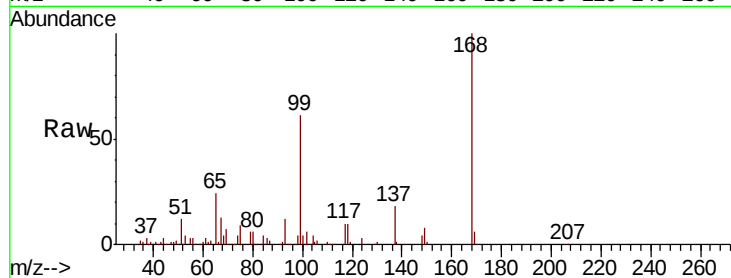
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 277273

Ion Ratio Lower Upper

168 100

99 60.6 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

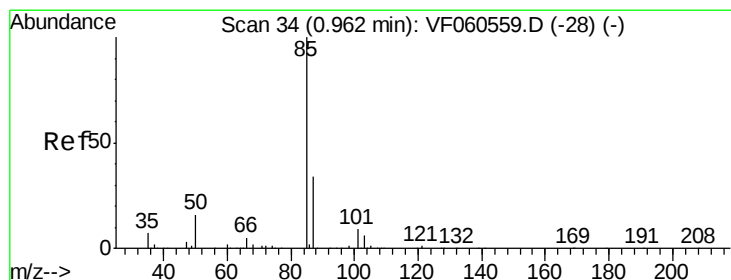
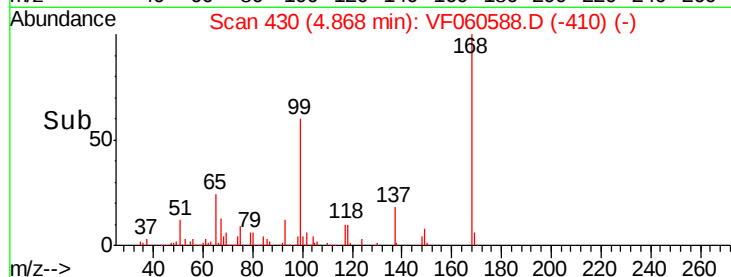
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF060588.D

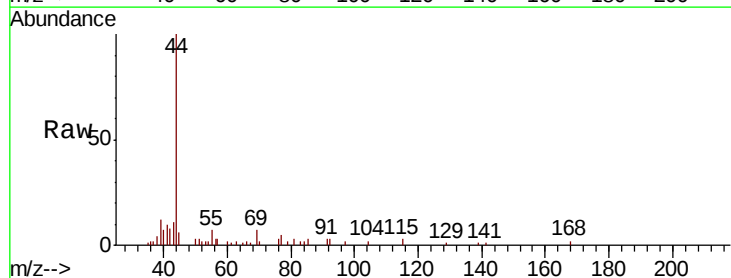
Acq: 5 Nov 2018 23:04

Tgt Ion: 85 Resp: 296

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

250

200

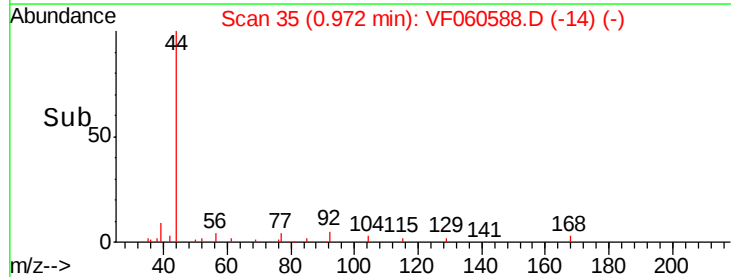
150

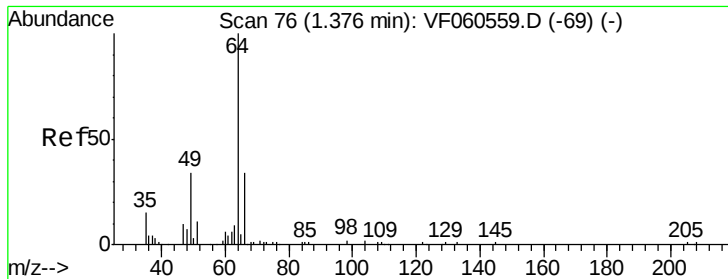
100

50

0

Time--> 0.92 0.94 0.96 0.98 1.00





#6

Chloroethane

Concen: Below Cal

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

Instrument :

MSVOA_F

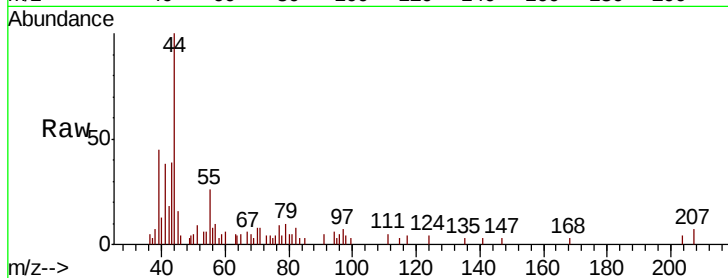
ClientSampled :

Tot Ion: 64 Resp: 142

Ion Ratio Lower Upper

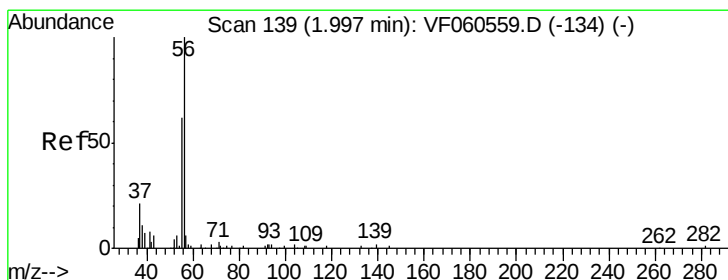
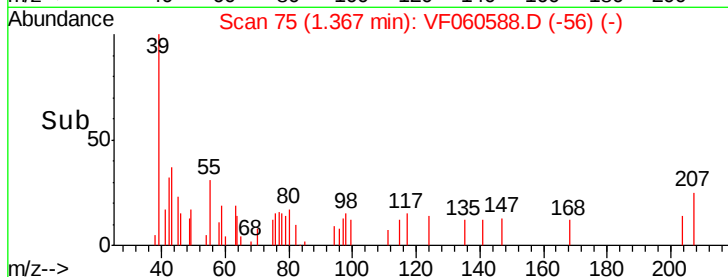
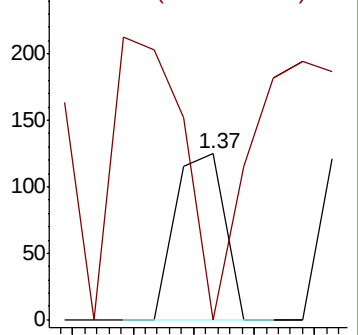
64 100

66 0.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#13

Acrolein

Concen: Below Cal

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF060588.D

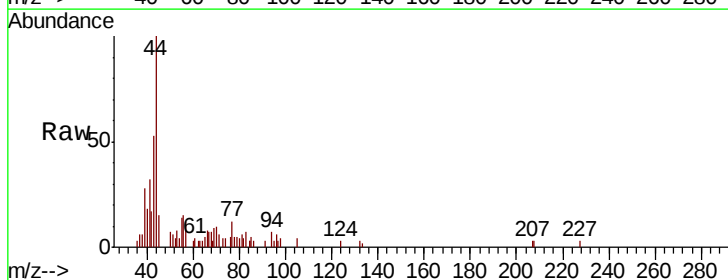
Acq: 5 Nov 2018 23:04

Tgt Ion: 56 Resp: 572

Ion Ratio Lower Upper

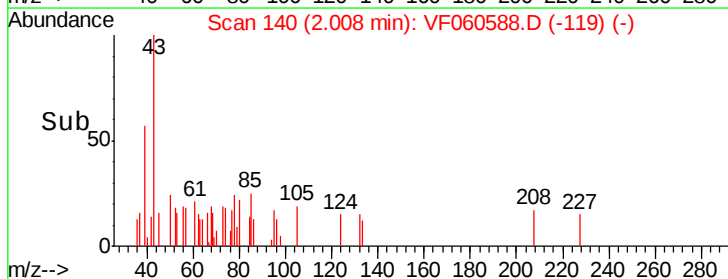
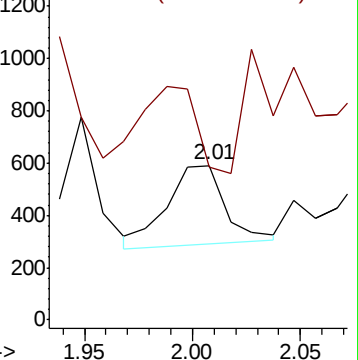
56 100

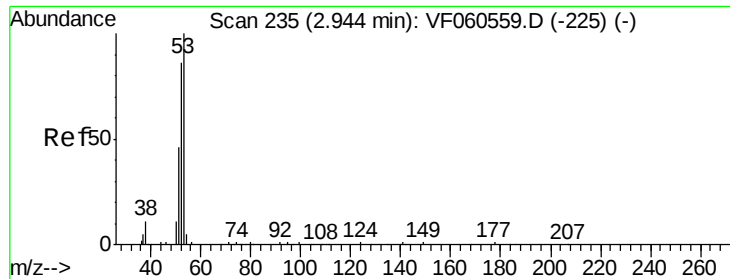
55 99.2 61.8 92.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 2.393 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

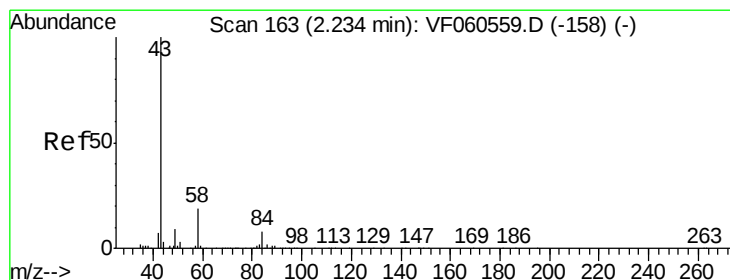
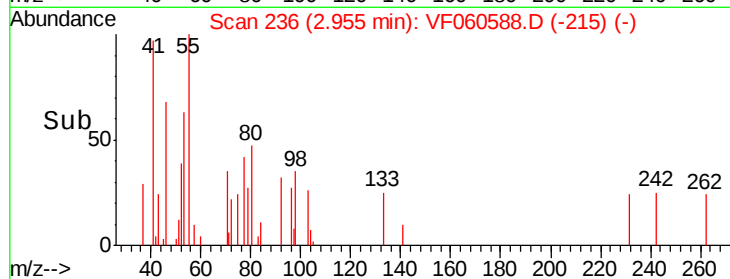
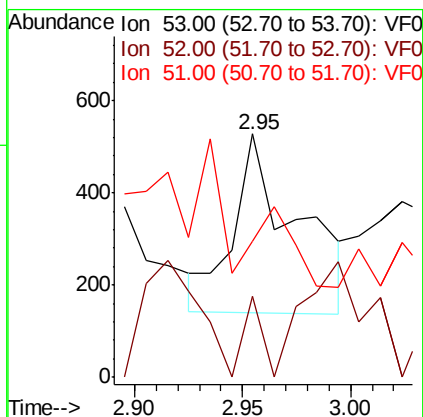
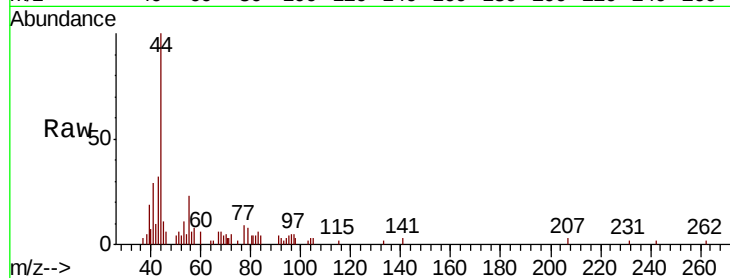
Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 53 Resp: 799

Ion	Ratio	Lower	Upper
53	100		
52	33.5	68.5	102.7#
51	55.7	38.2	57.2



#16

Acetone

Concen: 30.491 ug/l

RT: 2.23 min Scan# 163

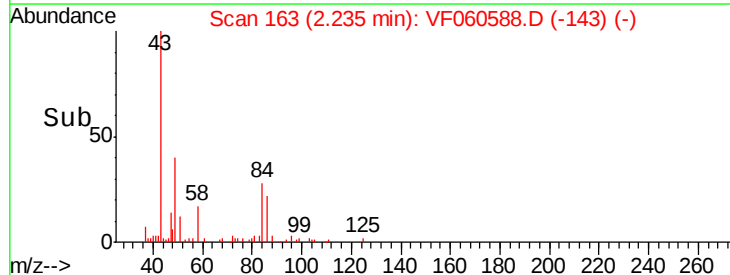
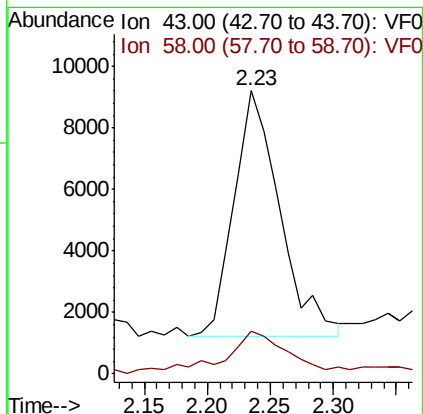
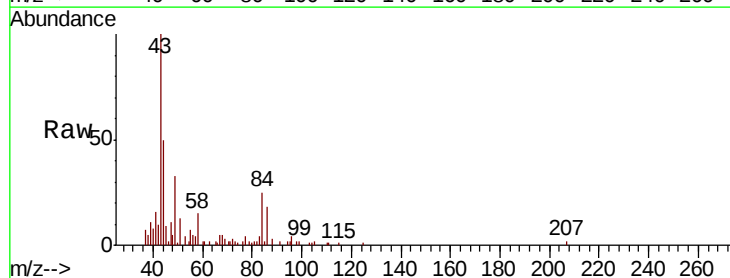
Delta R.T. 0.00 min

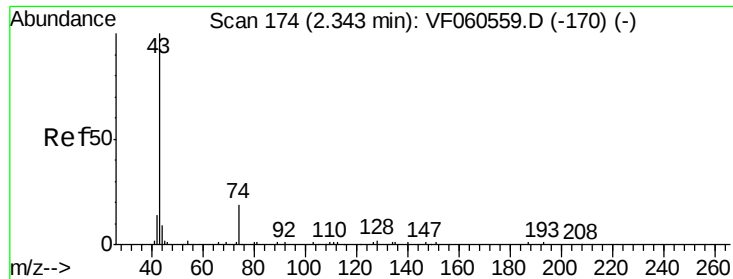
Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

Tgt Ion: 43 Resp: 20128

Ion	Ratio	Lower	Upper
43	100		
58	15.3	14.6	22.0

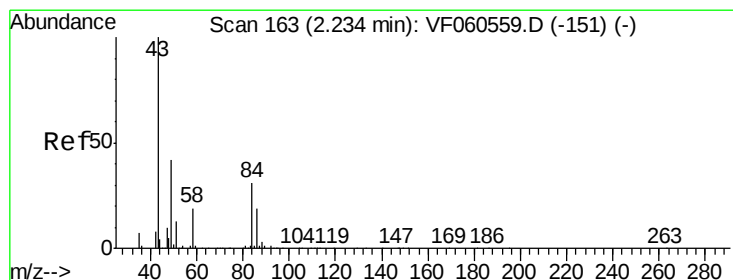
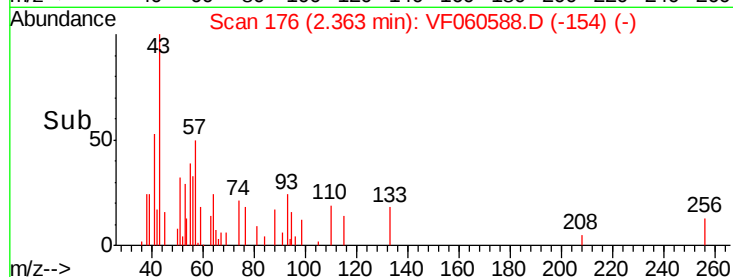
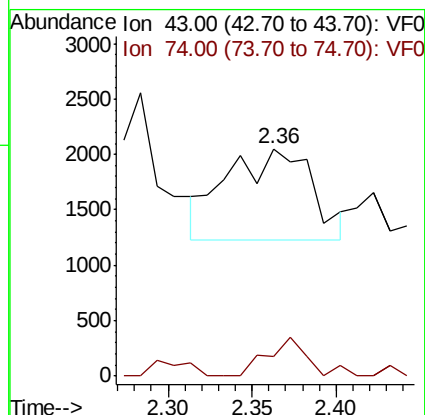
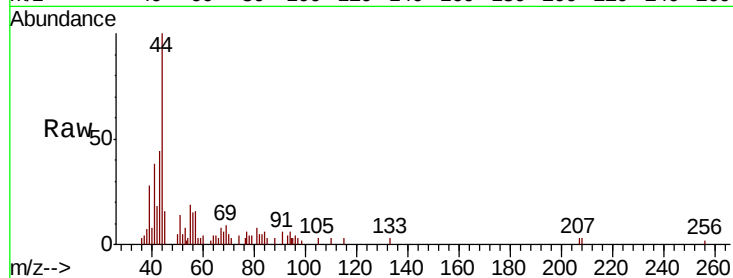




#18
Methyl Acetate
Concen: 3.255 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

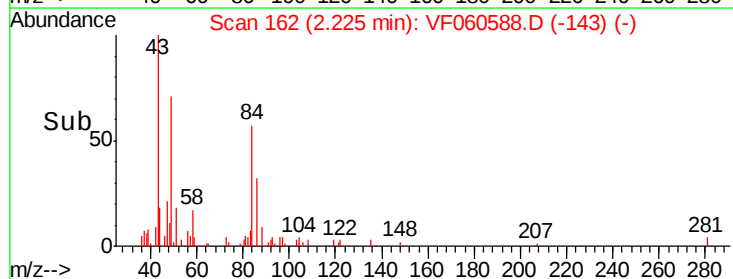
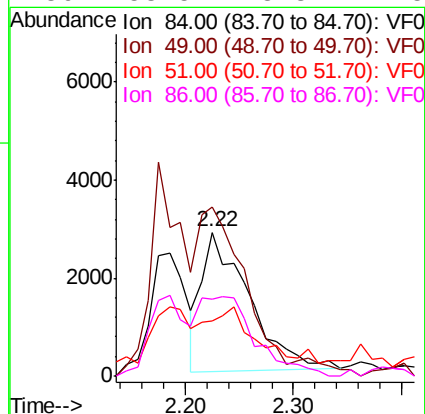
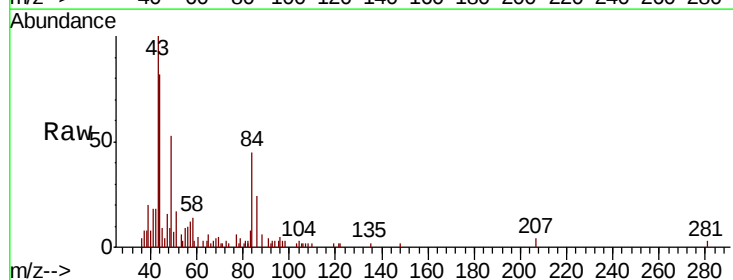
Instrument :
MSVOA_F
ClientSampleId :

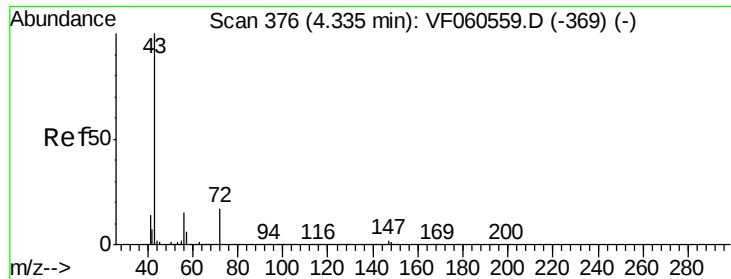
Tot Ion: 43 Resp: 2874
Ion Ratio Lower Upper
43 100
74 8.4 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.22 min Scan# 162
Delta R.T. -0.01 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

Tgt Ion: 84 Resp: 8684
Ion Ratio Lower Upper
84 100
49 117.6 109.9 164.9
51 38.7 35.8 53.8
86 53.5 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.36 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

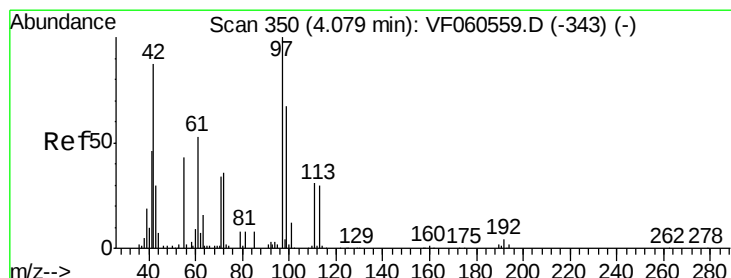
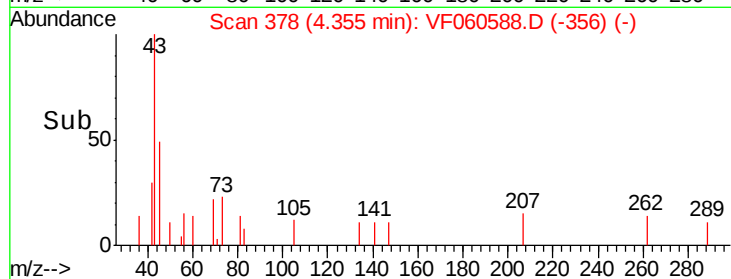
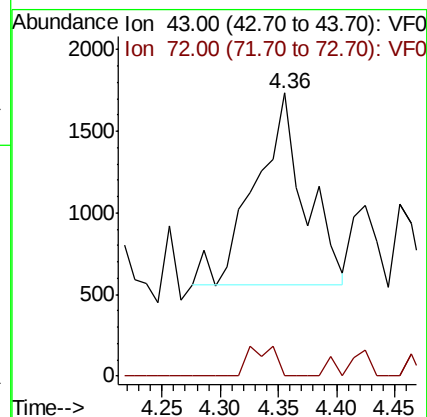
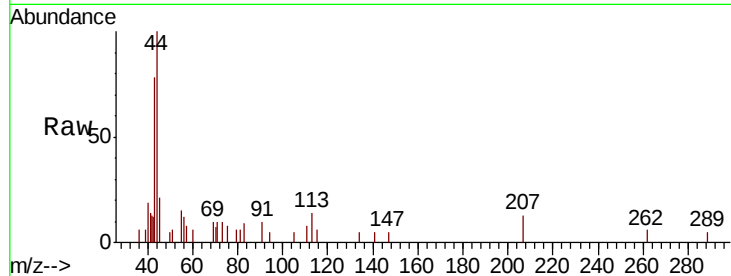
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3464

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.01 min Scan# 343

Delta R.T. -0.07 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

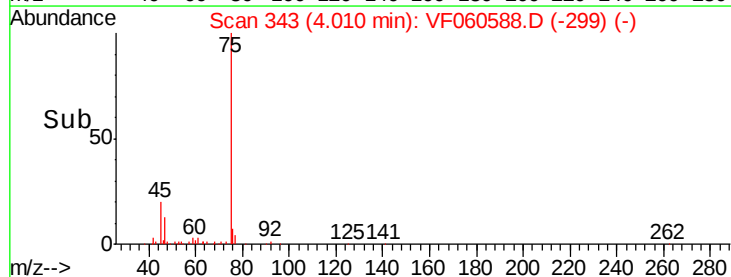
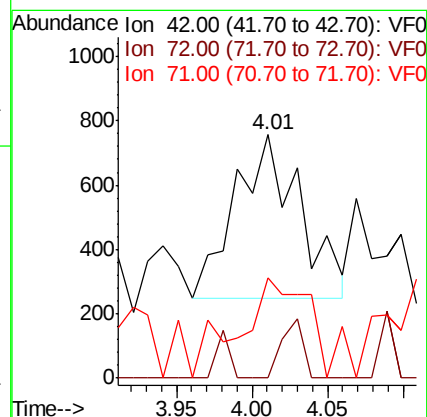
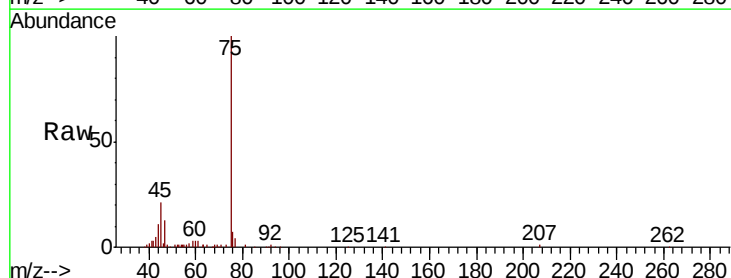
Tgt Ion: 42 Resp: 1532

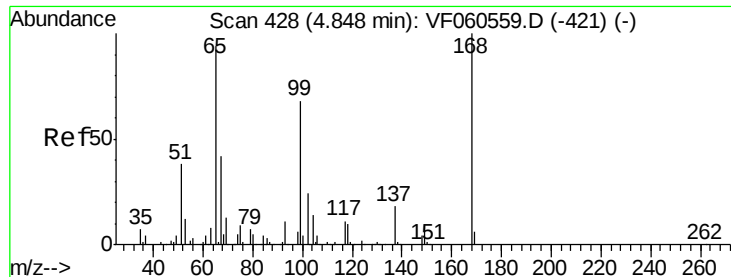
Ion Ratio Lower Upper

42 100

72 11.8 31.4 47.0#

71 70.4 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 44.584 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

Instrument :

MSVOA_F

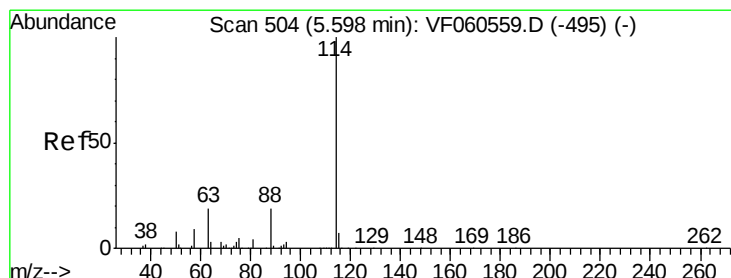
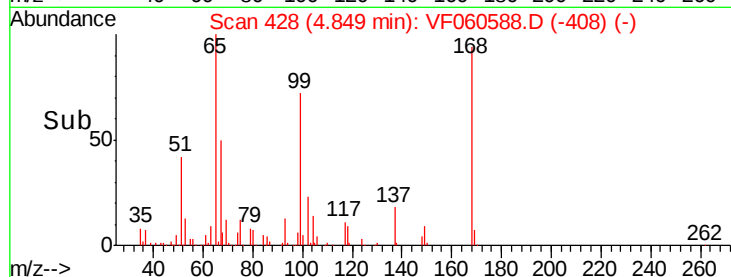
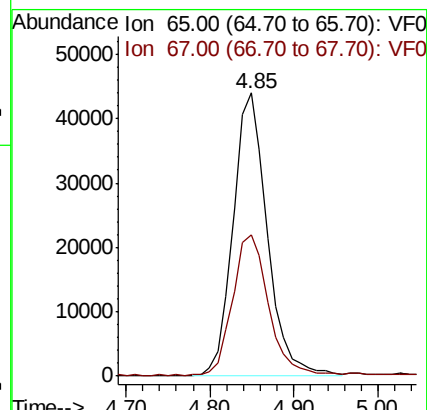
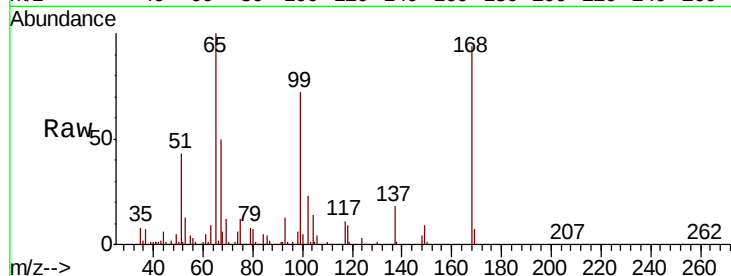
ClientSampled :

Tot Ion: 65 Resp: 124901

Ion Ratio Lower Upper

65 100

67 50.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

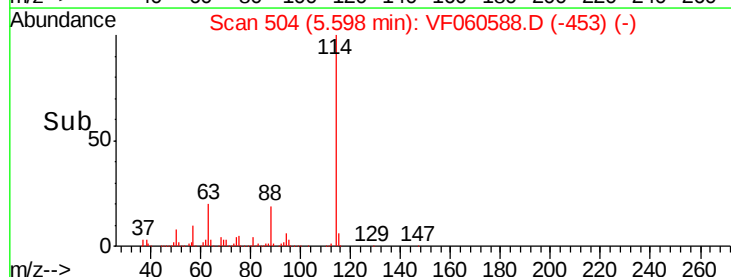
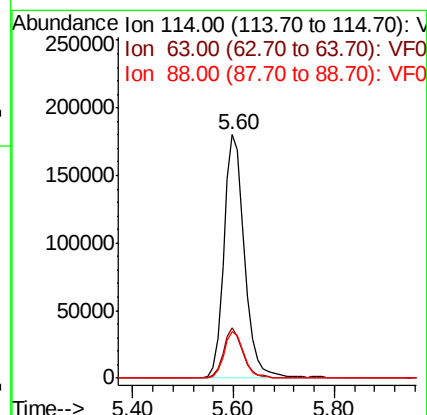
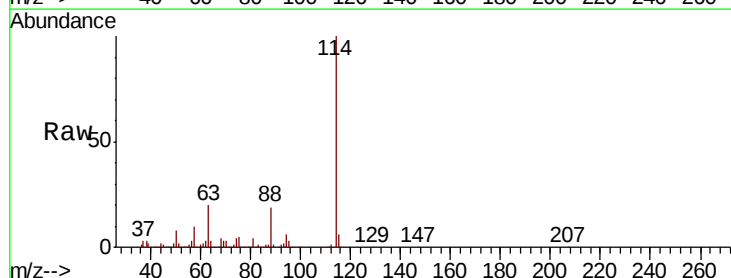
Tgt Ion: 114 Resp: 511995

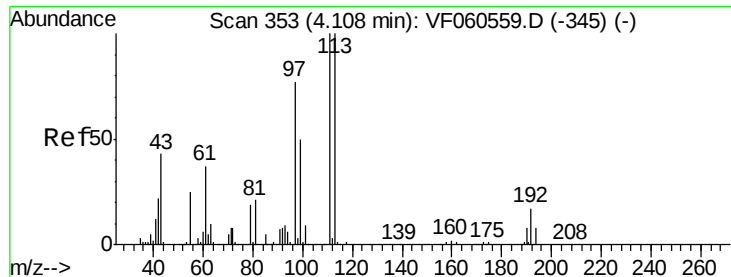
Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.0

88 19.1 0.0 38.2

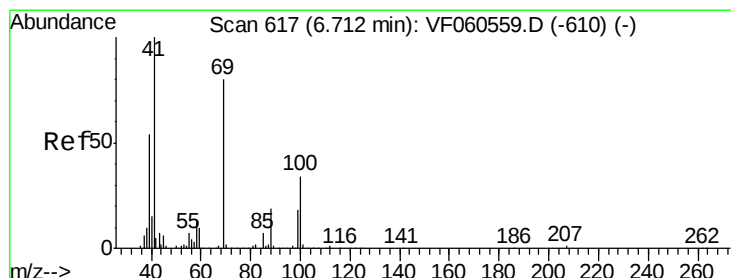
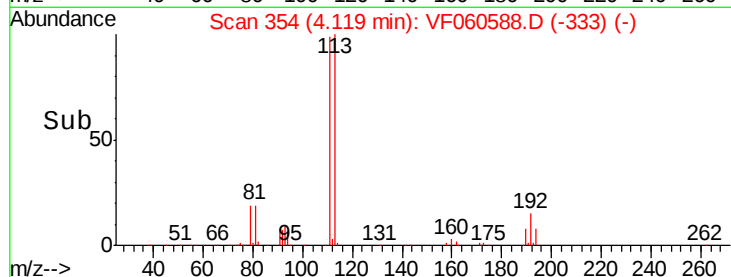
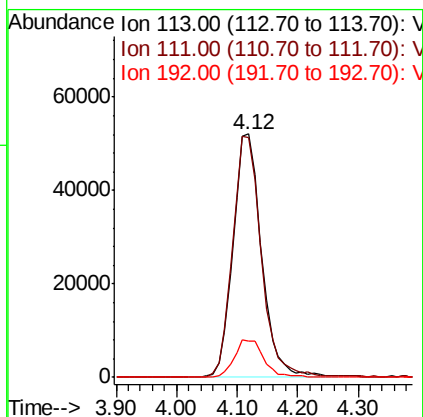
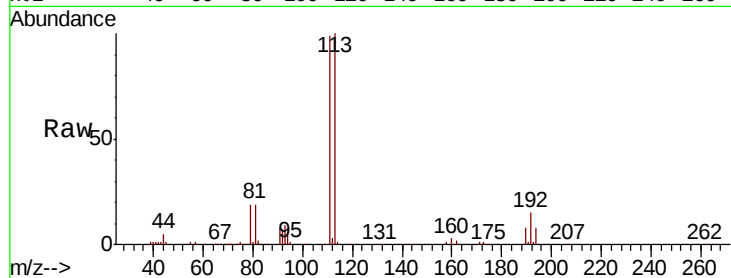




#35
 Dibromofluoromethane
 Concen: 43.088 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF060588.D
 Acq: 5 Nov 2018 23:04

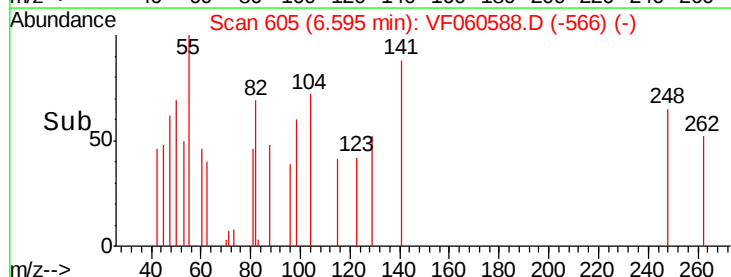
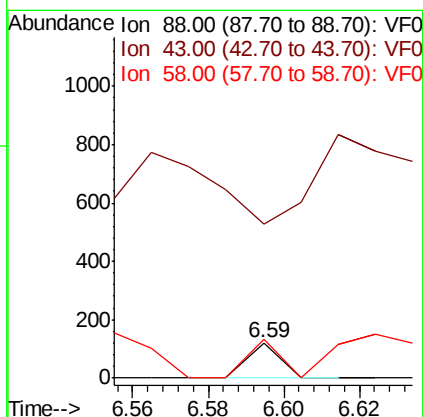
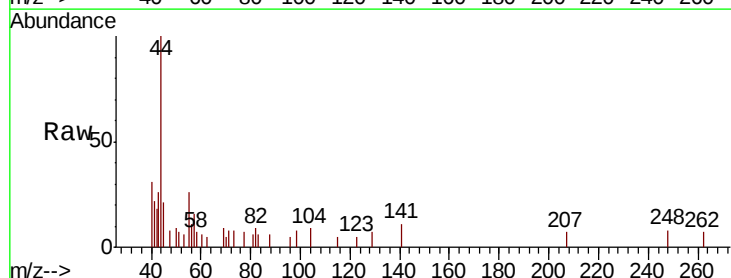
Instrument :
 MSVOA_F
 ClientSampleId :

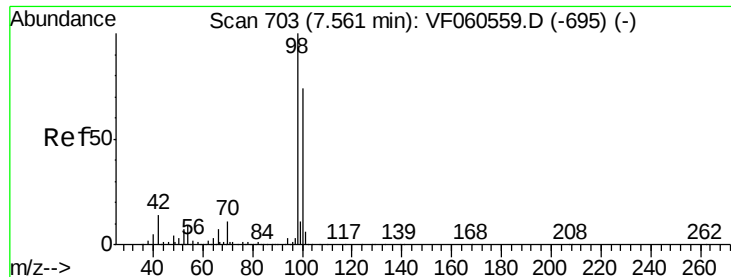
Tot Ion:113 Resp: 170442
 Ion Ratio Lower Upper
 113 100
 111 98.6 79.9 119.9
 192 14.9 13.3 19.9



#49
 1,4-Dioxane
 Concen: 3.199 ug/l
 RT: 6.59 min Scan# 605
 Delta R.T. -0.12 min
 Lab File: VF060588.D
 Acq: 5 Nov 2018 23:04

Tgt Ion: 88 Resp: 72
 Ion Ratio Lower Upper
 88 100
 43 431.1 61.2 91.8#
 58 110.7 56.9 85.3#

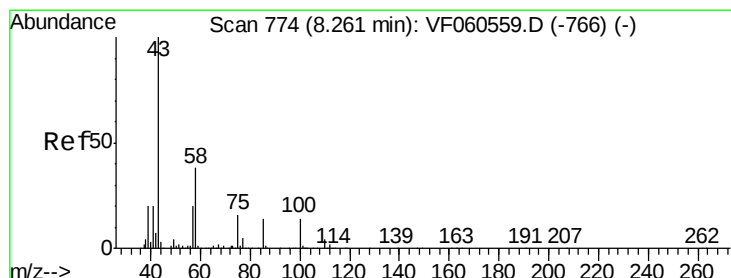
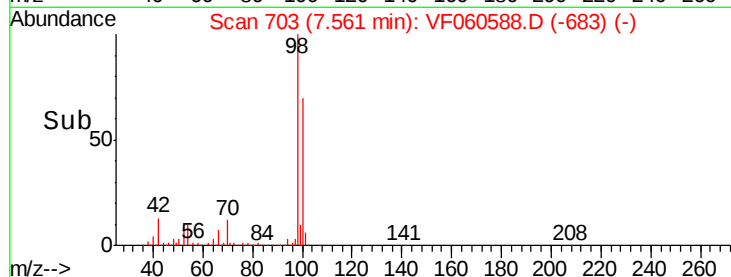
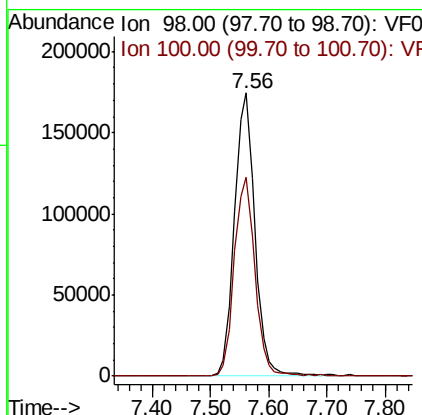
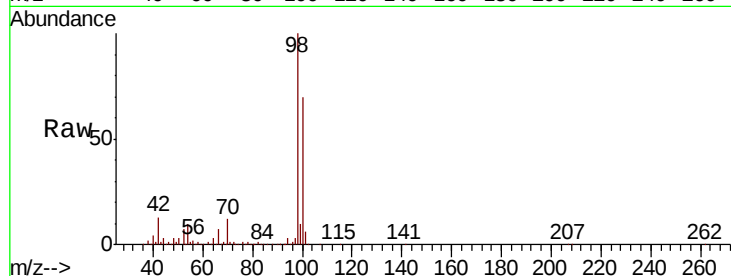




#50
Toluene-d8
Concen: 36.440 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

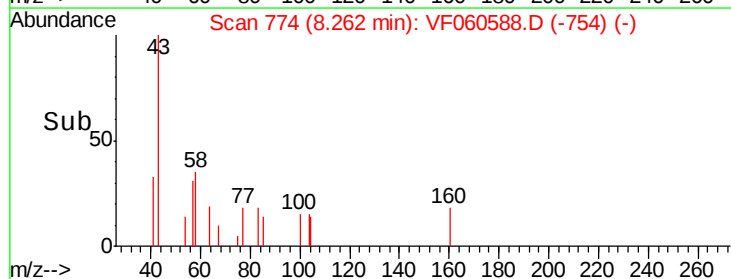
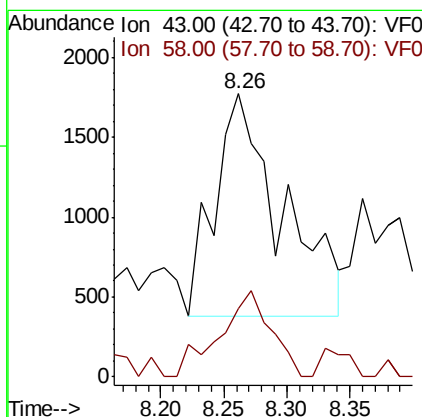
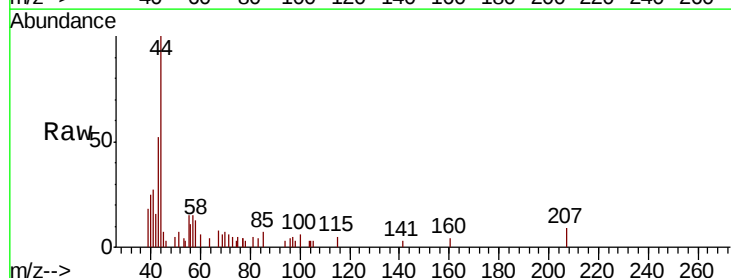
Instrument :
MSVOA_F
ClientSampled :

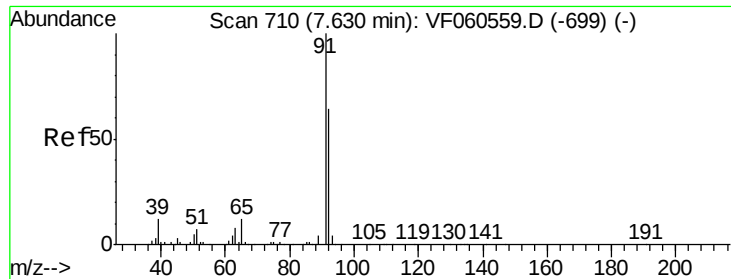
Tot Ion: 98 Resp: 427004
Ion Ratio Lower Upper
98 100
100 70.2 59.4 89.2



#51
4-Methyl-2-Pentanone
Concen: 2.223 ug/l
RT: 8.26 min Scan# 774
Delta R.T. 0.00 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

Tgt Ion: 43 Resp: 5117
Ion Ratio Lower Upper
43 100
58 24.2 30.1 45.1#

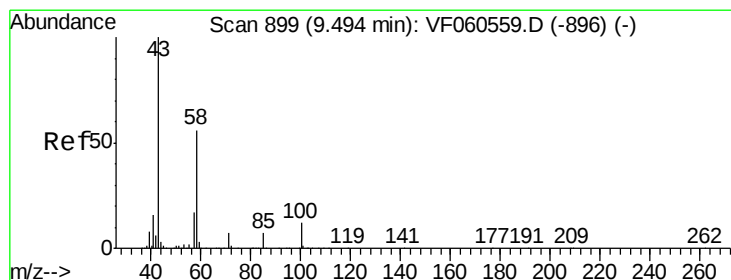
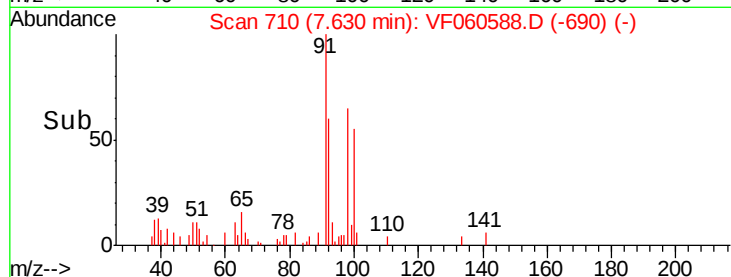
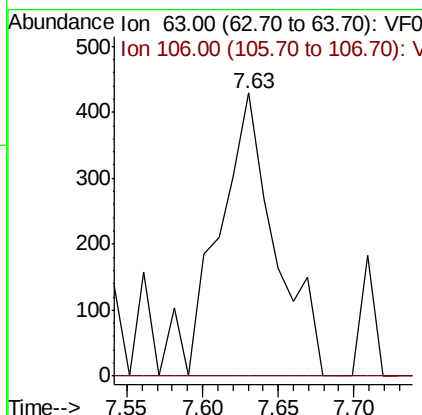
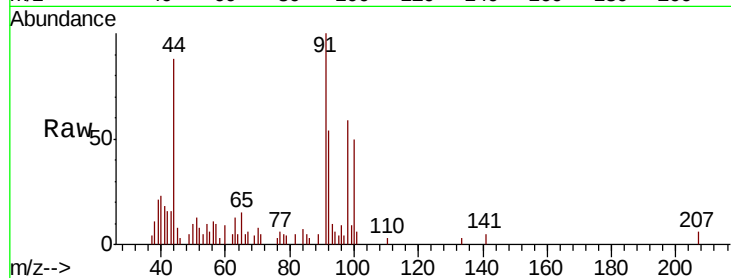




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 7.63 min Scan# 710
Delta R.T. 0.00 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

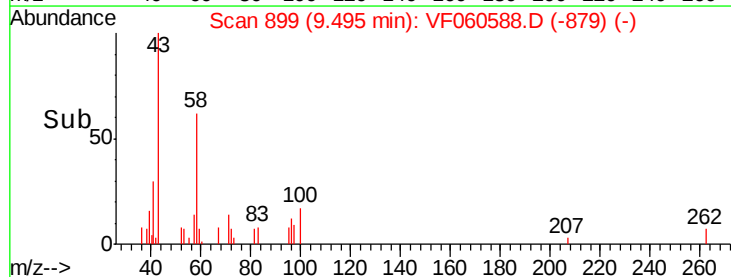
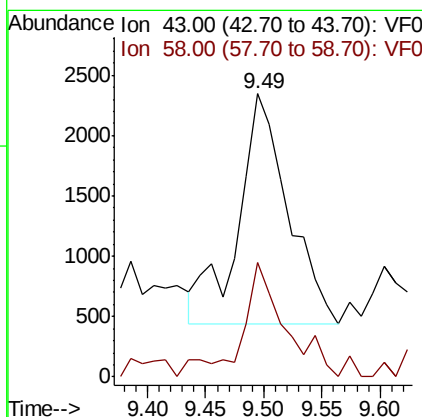
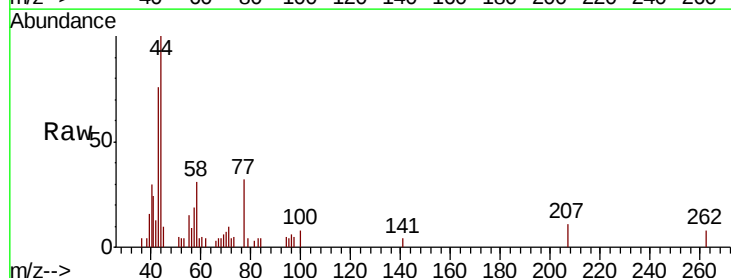
Instrument :
MSVOA_F
ClientSampleId :

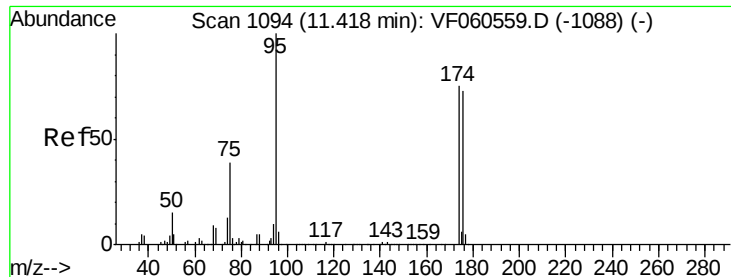
Tot Ion: 63 Resp: 1080
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: Below Cal
RT: 9.49 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

Tgt Ion: 43 Resp: 5685
Ion Ratio Lower Upper
43 100
58 40.3 26.1 78.3

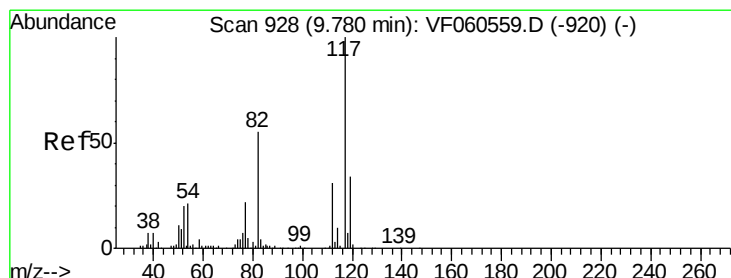
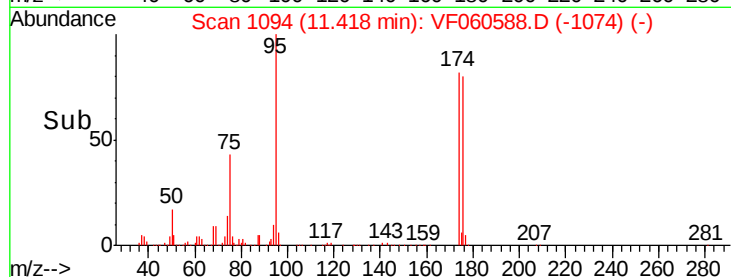
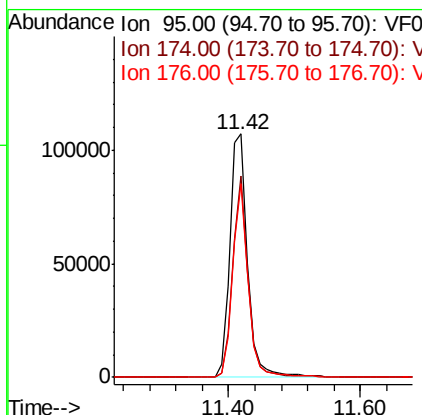
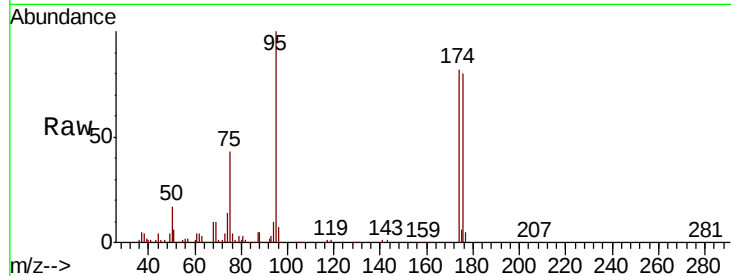




#62
4-Bromofluorobenzene
Concen: 39.459 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

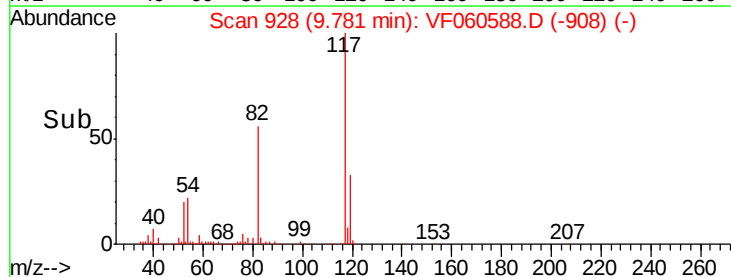
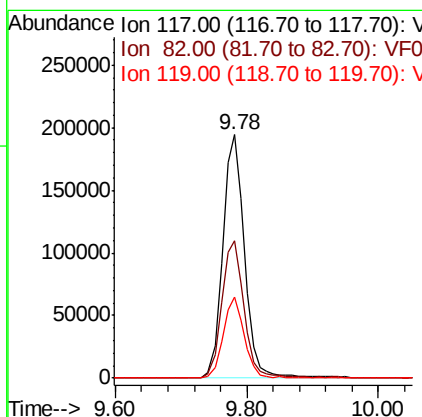
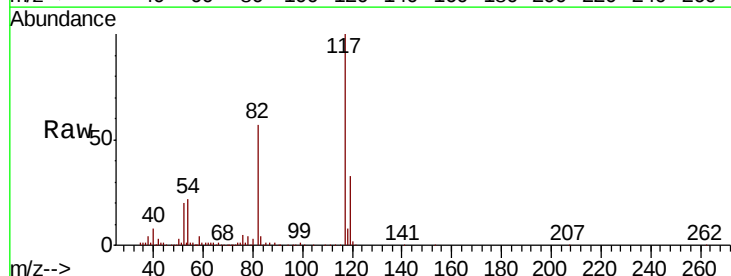
Instrument :
MSVOA_F
ClientSampled :

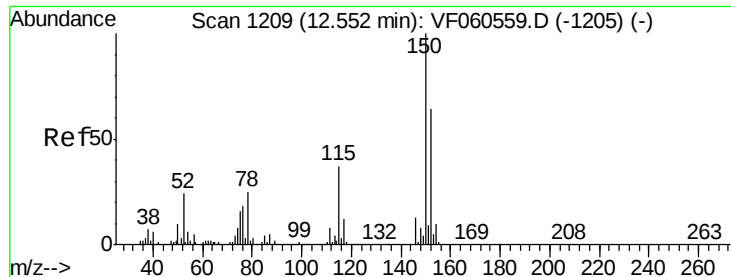
Tot Ion: 95 Resp: 202251
Ion Ratio Lower Upper
95 100
174 82.5 0.0 149.0
176 79.8 0.0 145.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060588.D
Acq: 5 Nov 2018 23:04

Tgt Ion: 117 Resp: 448012
Ion Ratio Lower Upper
117 100
82 56.5 43.9 65.9
119 33.1 27.4 41.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

Instrument :

MSVOA_F

ClientSampleId :

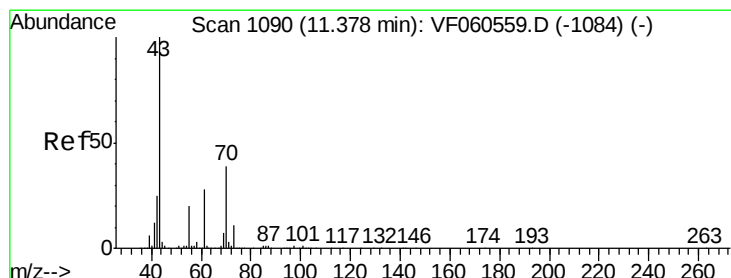
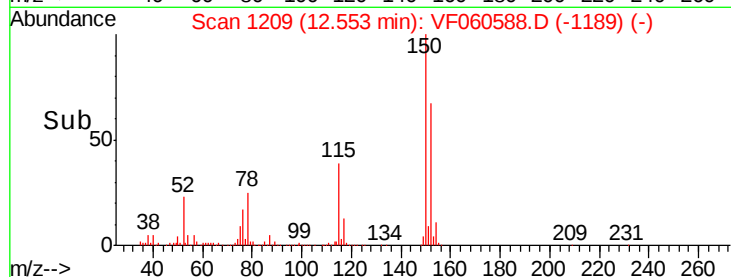
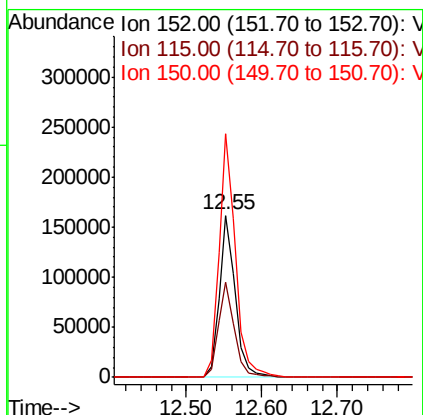
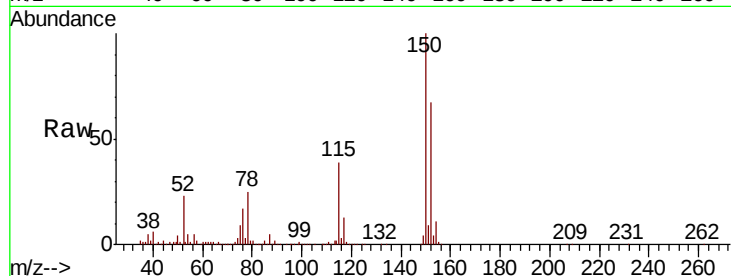
Tot Ion:152 Resp: 241881

Ion Ratio Lower Upper

152 100

115 59.0 29.6 88.8

150 150.3 0.0 315.6



#74

N-ethyl acetate

Concen: Below Cal

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060588.D

Acq: 5 Nov 2018 23:04

Tgt Ion: 43 Resp: 1014

Ion Ratio Lower Upper

43 100

70 30.2 30.9 46.3#

55 60.0 16.6 24.8#

61 16.8 22.0 33.0#

