

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060605.D
 Acq On : 6 Nov 2018 10:03
 Operator : VA/AP
 Sample : J5816-03
 Misc : 5.45/5mL/MSVOA-F/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 10:32:12 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	4.88	168	263409	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.60	114	488488	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	377347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	127181	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	150001	56.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.72%	
35) Dibromofluoromethane	4.13	113	184677	48.93	ug/l	0.02
Spiked Amount	50.000		Recovery	=	97.86%	
50) Toluene-d8	7.57	98	450287	40.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.56%	
62) 4-Bromofluorobenzene	11.42	95	171188	35.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.02%	

Target Compounds

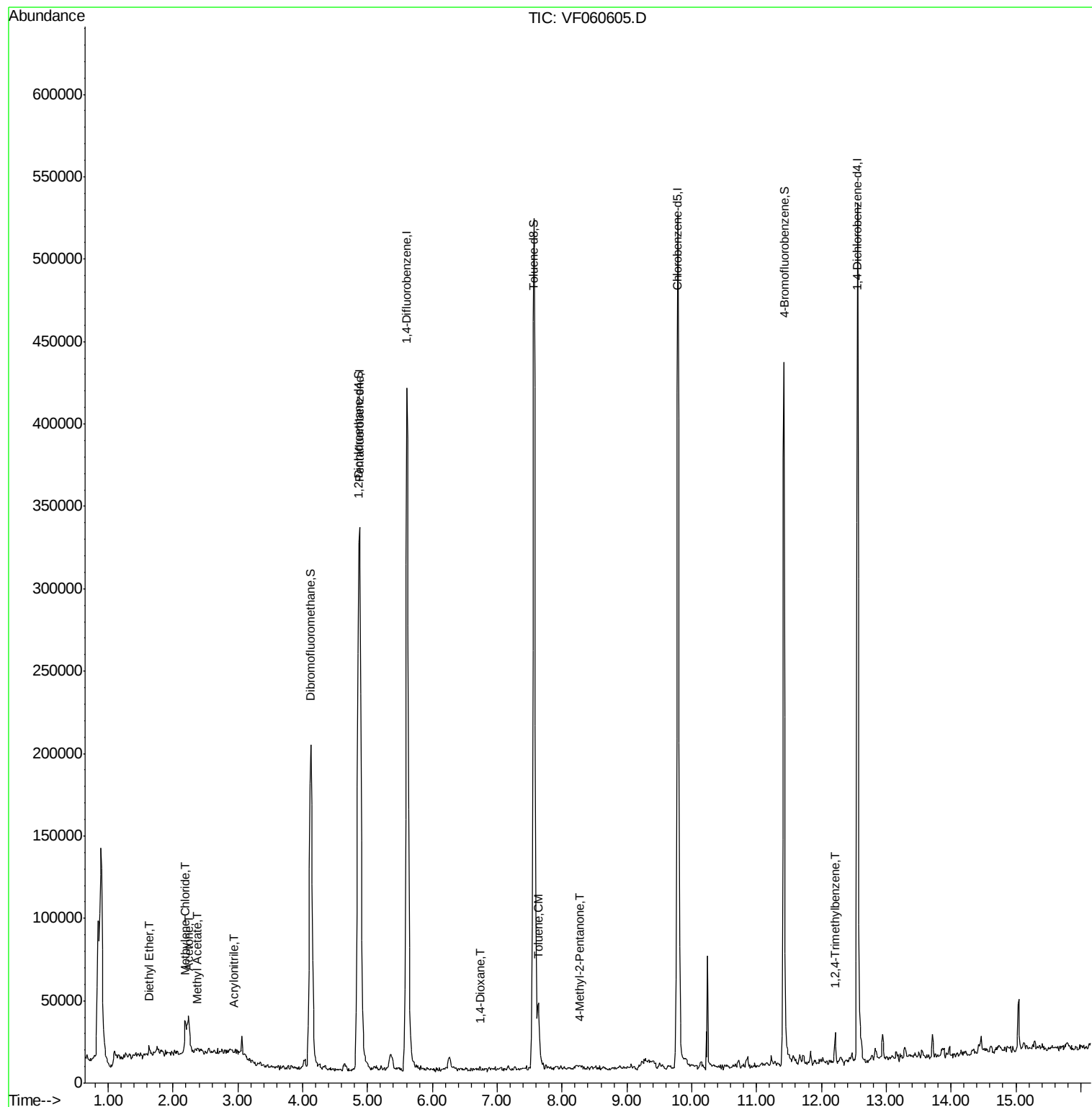
						Qvalue
2) Dichlorodifluoromethane	0.98	85	651	Below Cal	#	41
6) Chloroethane	1.38	64	69	Below Cal	#	1
8) Diethyl Ether	1.63	74	2204	2.991	ug/l	77
11) Tert butyl alcohol	2.56	59	329	Below Cal	#	1
13) Acrolein	2.01	56	1237	Below Cal		95
15) Acrylonitrile	2.93	53	490	1.545	ug/l #	22
16) Acetone	2.24	43	20323	32.406	ug/l #	90
18) Methyl Acetate	2.36	43	2181	2.697	ug/l #	90
20) Methylene Chloride	2.18	84	17408	4.375	ug/l	99
25) 2-Butanone	4.35	43	3250	Below Cal	#	85
29) Tetrahydrofuran	3.66	42	415	Below Cal		91
49) 1,4-Dioxane	6.75	88	60	2.794	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	2367	1.078	ug/l #	63
52) Toluene	7.64	92	19944	2.345	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.64	63	3303	Below Cal		100
59) 2-Hexanone	9.51	43	3729	Below Cal		85
74) N-amyl acetate	11.41	43	1013	Below Cal	#	1
84) 1,2,4-Trimethylbenzene	12.21	105	8885	1.110	ug/l	95
89) n-Butylbenzene	12.86	91	2054	Below Cal		83

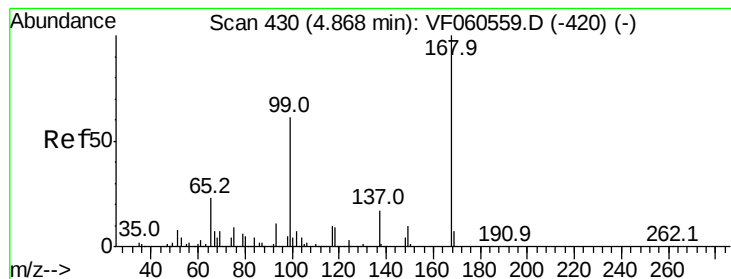
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF110518\
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QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.02 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

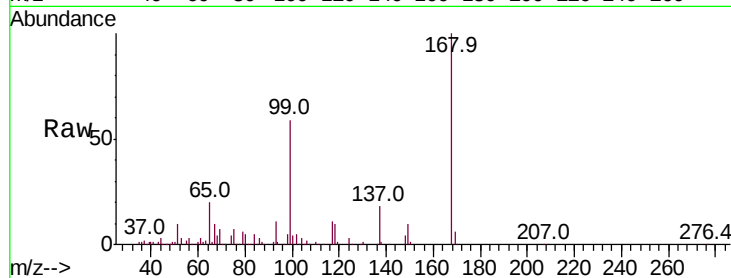
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 263409

Ion Ratio Lower Upper

168 100

99 59.4 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

60000

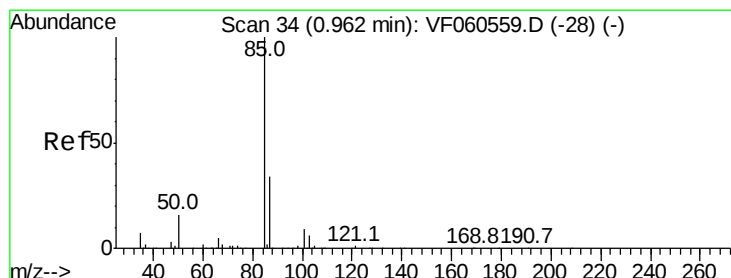
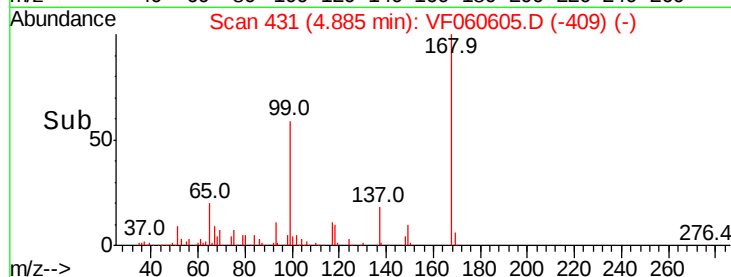
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 35

Delta R.T. 0.02 min

Lab File: VF060605.D

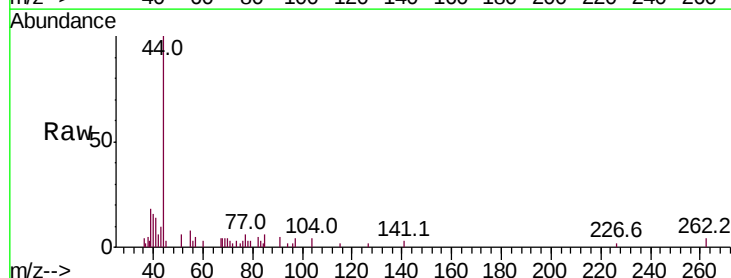
Acq: 6 Nov 2018 10:03

Tgt Ion: 85 Resp: 651

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

0.98

400

300

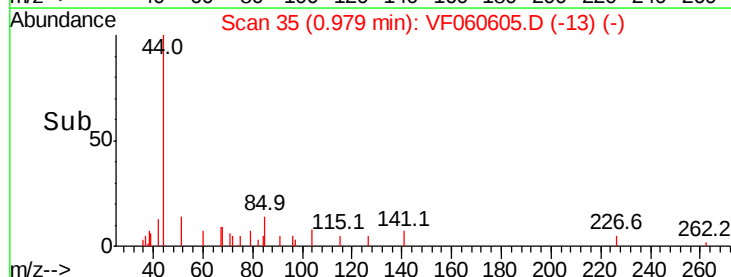
200

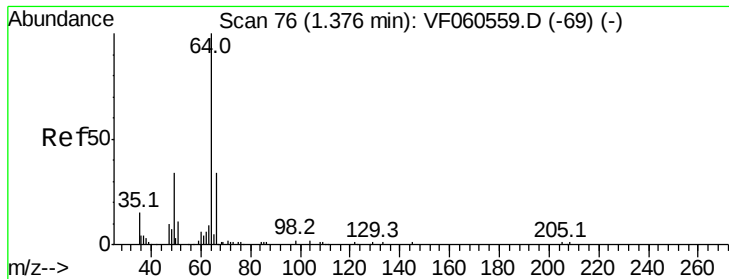
100

0

0.95 1.00 1.05

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.38 min Scan# 76

Delta R.T. 0.01 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

Instrument :

MSVOA_F

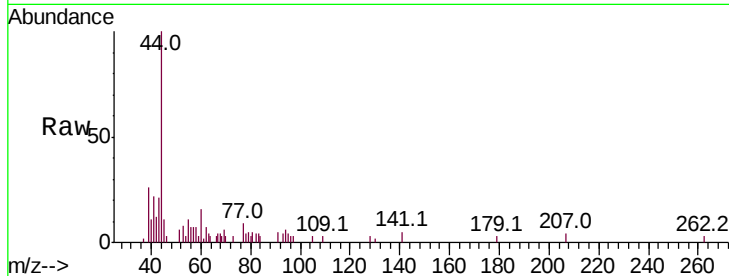
ClientSampled :

Tot Ion: 64 Resp: 69

Ion Ratio Lower Upper

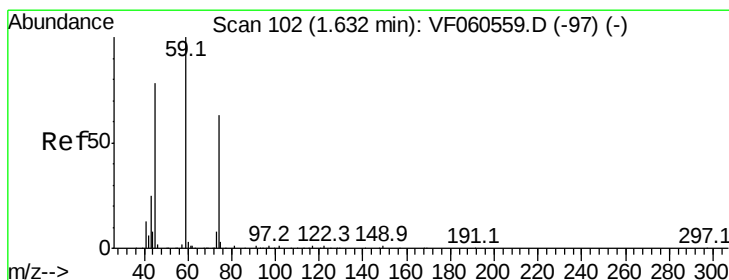
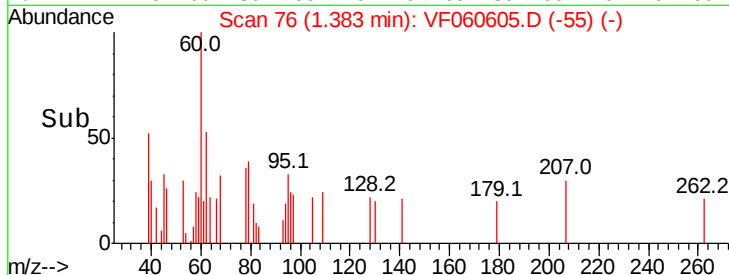
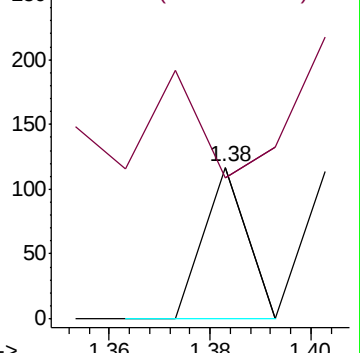
64 100

66 93.2 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 2.991 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF060605.D

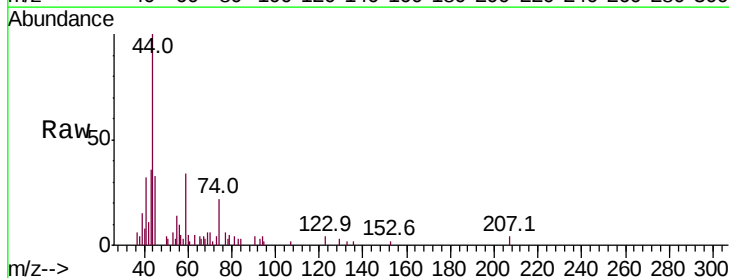
Acq: 6 Nov 2018 10:03

Tgt Ion: 74 Resp: 2204

Ion Ratio Lower Upper

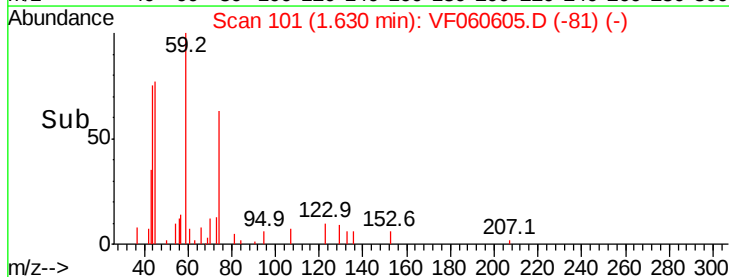
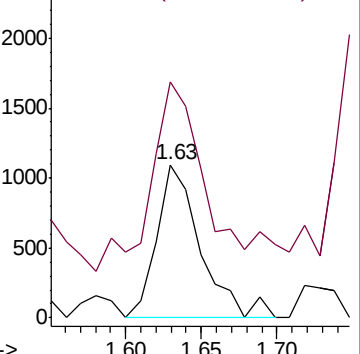
74 100

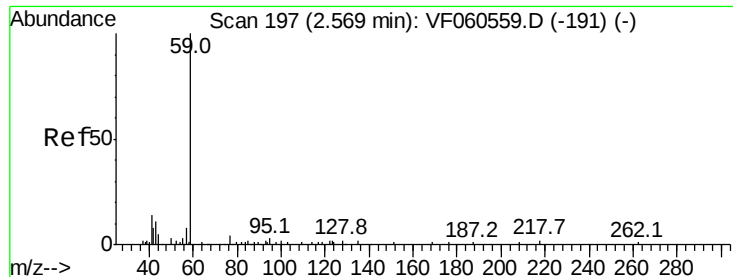
45 153.8 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



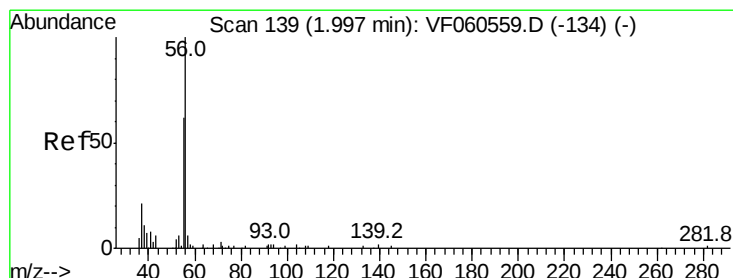
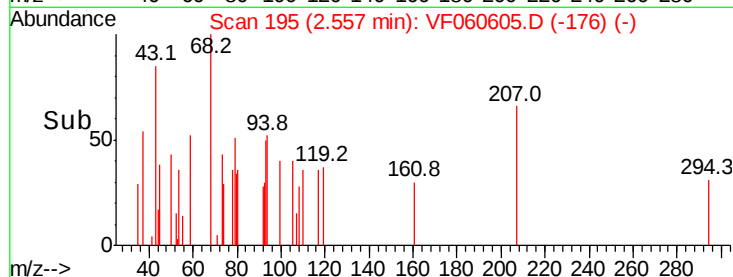
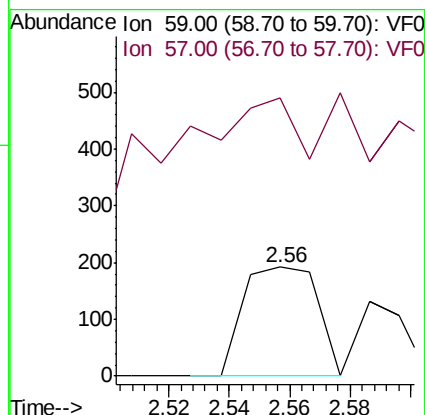
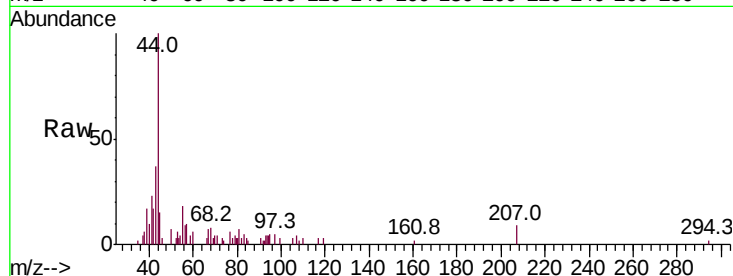


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.56 min Scan# 195
 Delta R.T. -0.01 min
 Lab File: VF060605.D
 Acq: 6 Nov 2018 10:03

Instrument :
 MSVOA_F
 ClientSampleId :

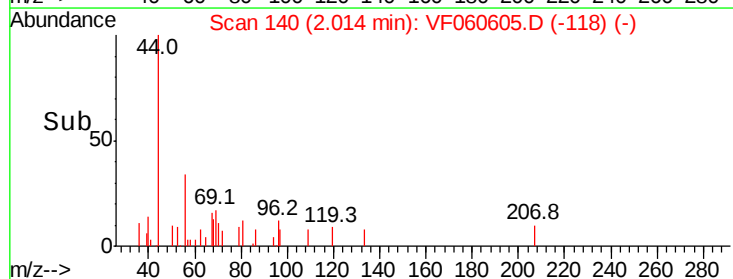
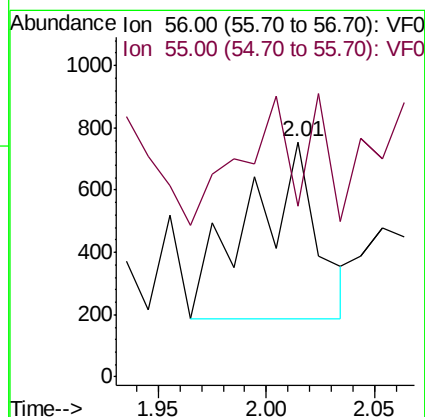
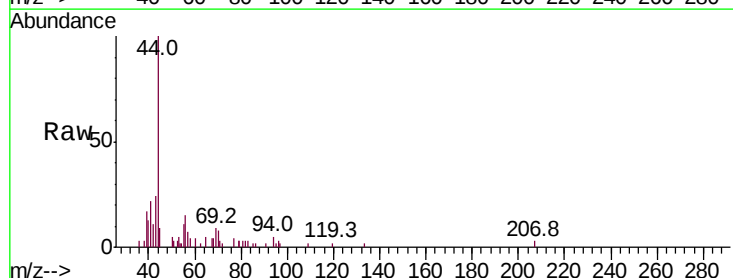
Tot Ion: 59 Resp: 329
 Ion Ratio Lower Upper
 59 100
 57 255.2 19.0 28.4#

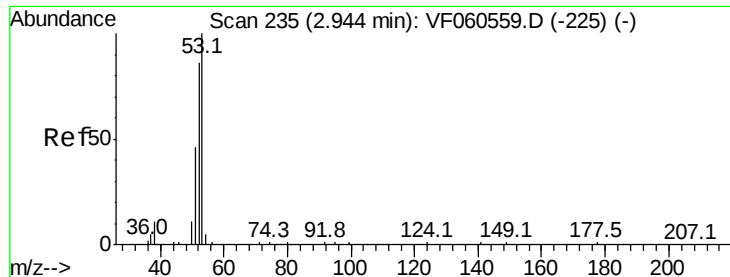


#13

Acrolein
 Concen: Below Cal
 RT: 2.01 min Scan# 140
 Delta R.T. 0.02 min
 Lab File: VF060605.D
 Acq: 6 Nov 2018 10:03

Tgt Ion: 56 Resp: 1237
 Ion Ratio Lower Upper
 56 100
 55 72.5 61.8 92.6





#15

Acrylonitrile

Concen: 1.545 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

Instrument :

MSVOA_F

ClientSampled :

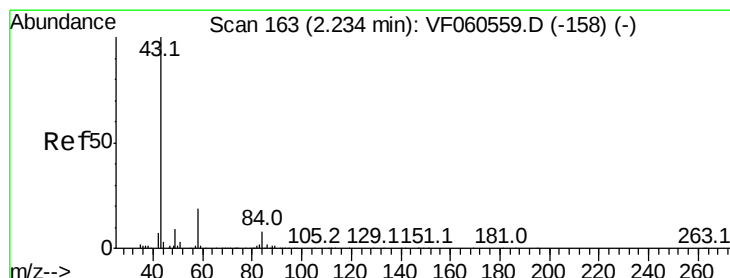
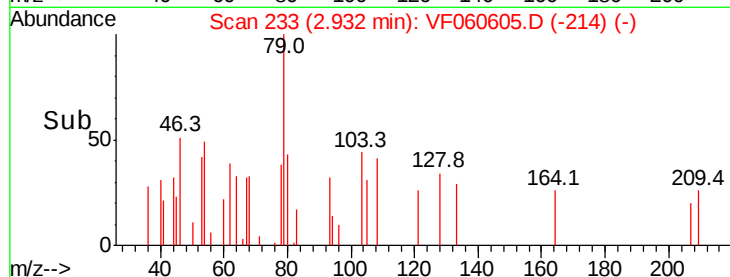
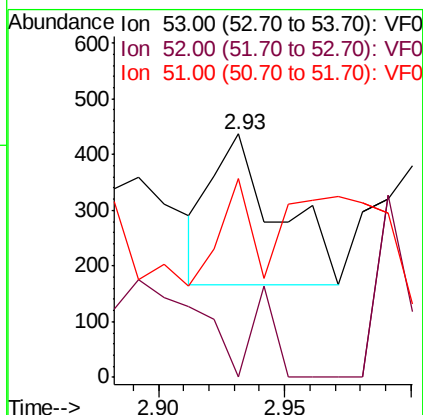
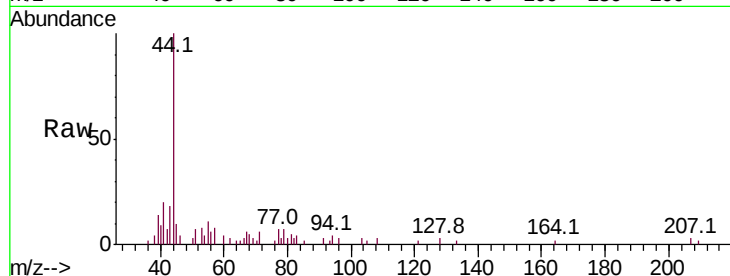
Tot Ion: 53 Resp: 490

Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 81.5 38.2 57.2#



#16

Acetone

Concen: 32.406 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF060605.D

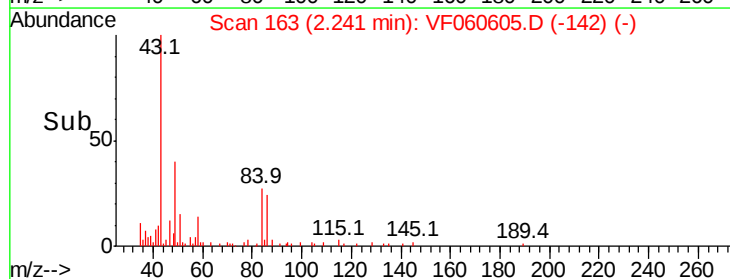
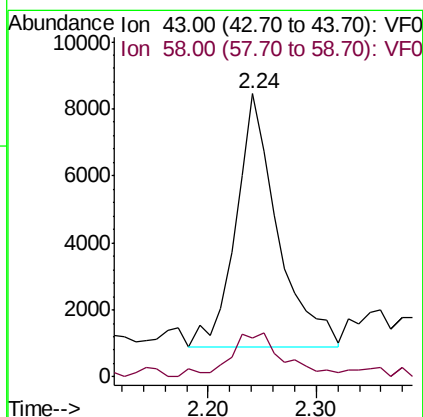
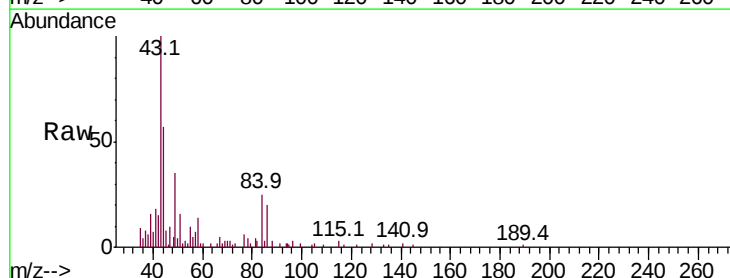
Acq: 6 Nov 2018 10:03

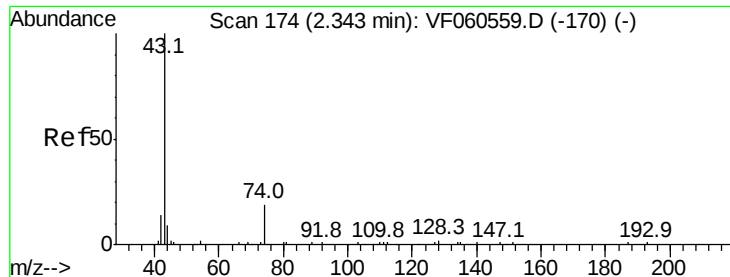
Tgt Ion: 43 Resp: 20323

Ion Ratio Lower Upper

43 100

58 13.8 14.6 22.0#

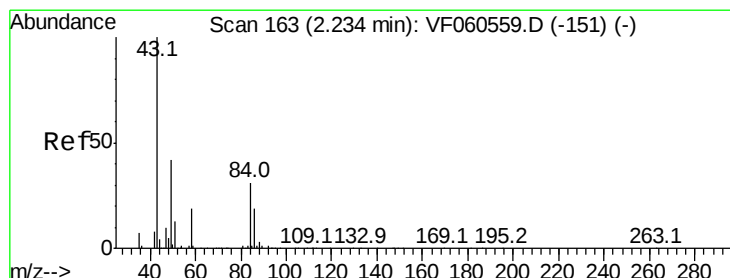
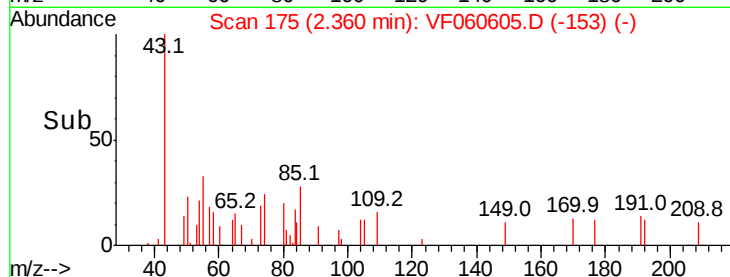
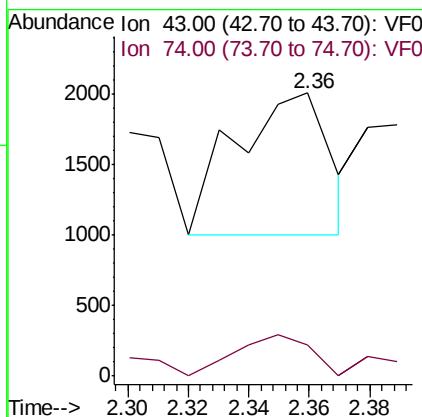
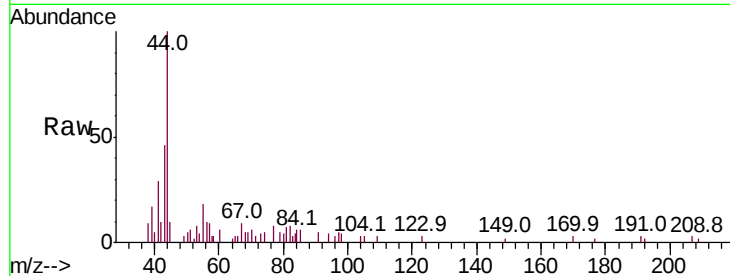




#18
Methyl Acetate
Concen: 2.697 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF060605.D
Acq: 6 Nov 2018 10:03

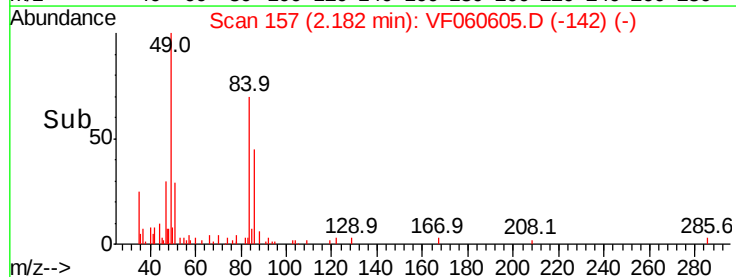
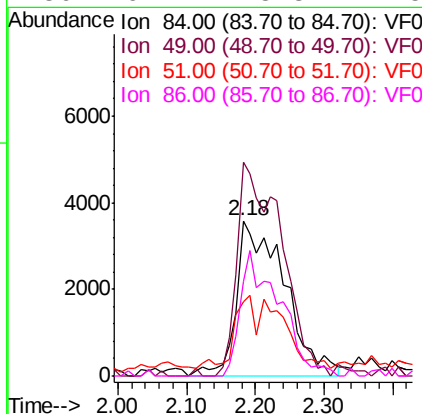
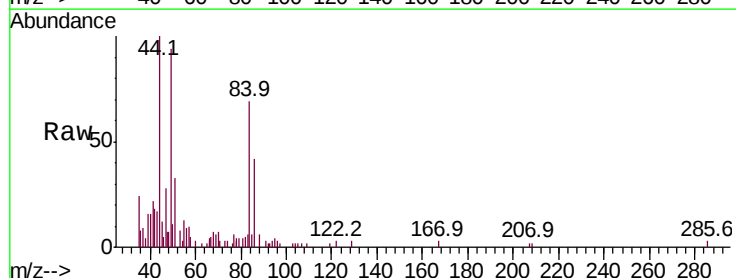
Instrument :
MSVOA_F
ClientSampled :

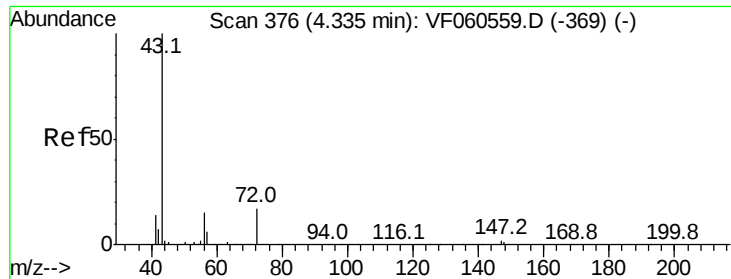
Tot Ion: 43 Resp: 2181
Ion Ratio Lower Upper
43 100
74 10.8 12.1 18.1#



#20
Methylene Chloride
Concen: 4.375 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.05 min
Lab File: VF060605.D
Acq: 6 Nov 2018 10:03

Tgt Ion: 84 Resp: 17408
Ion Ratio Lower Upper
84 100
49 137.5 109.9 164.9
51 47.9 35.8 53.8
86 61.4 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

Instrument :

MSVOA_F

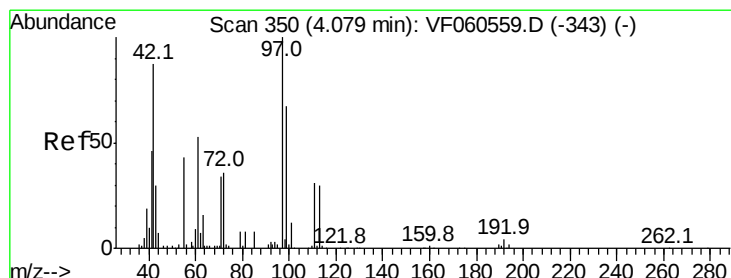
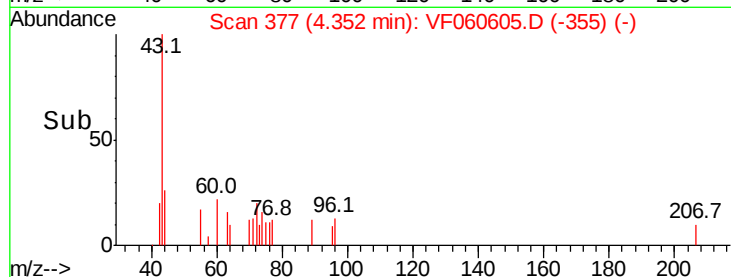
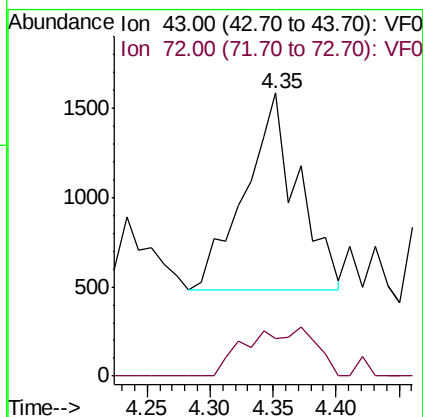
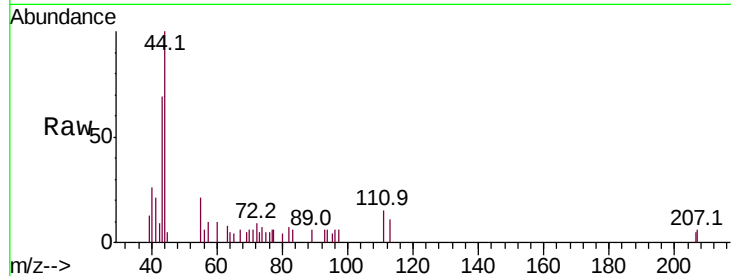
ClientSampleId :

Tot Ion: 43 Resp: 3250

Ion Ratio Lower Upper

43 100

72 13.4 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 3.66 min Scan# 307

Delta R.T. -0.42 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

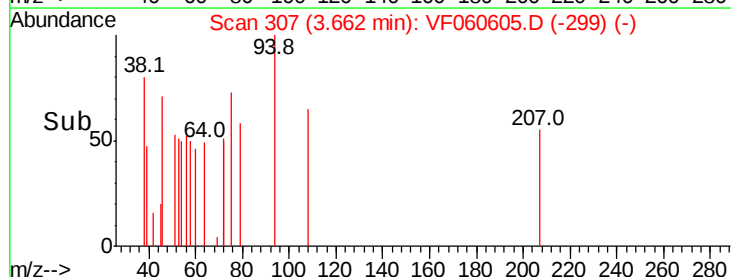
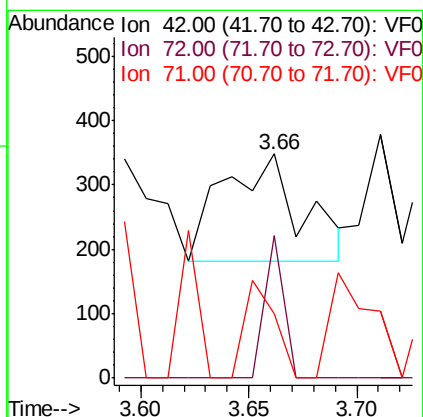
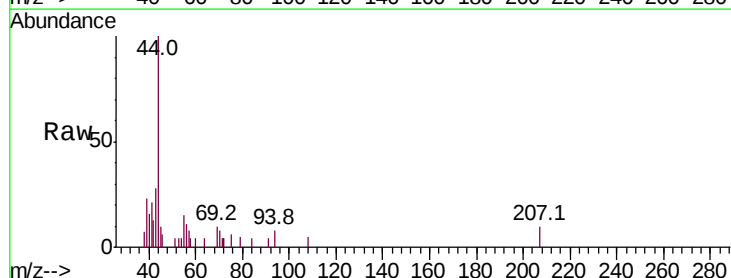
Tgt Ion: 42 Resp: 415

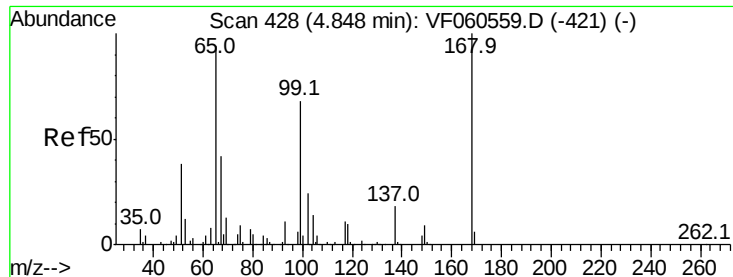
Ion Ratio Lower Upper

42 100

72 31.6 31.4 47.0

71 36.1 31.8 47.6





#33

1,2-Dichloroethane-d4

Concen: 56.362 ug/l

RT: 4.86 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

Instrument :

MSVOA_F

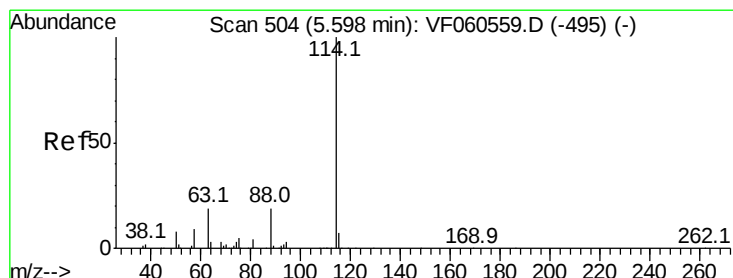
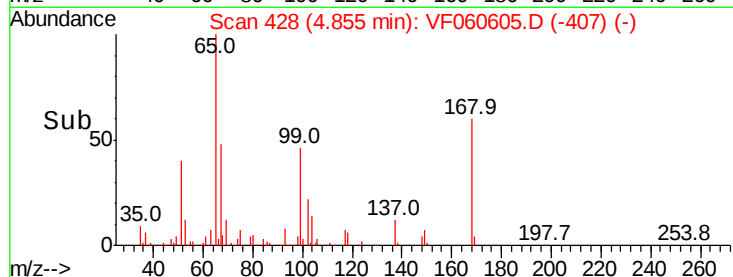
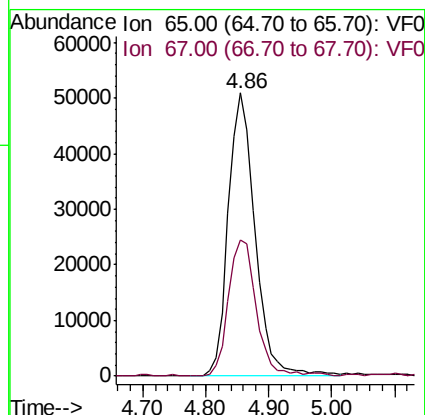
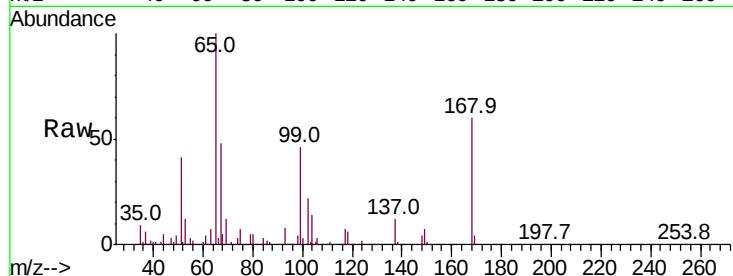
ClientSampled :

Tot Ion: 65 Resp: 150001

Ion Ratio Lower Upper

65 100

67 48.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

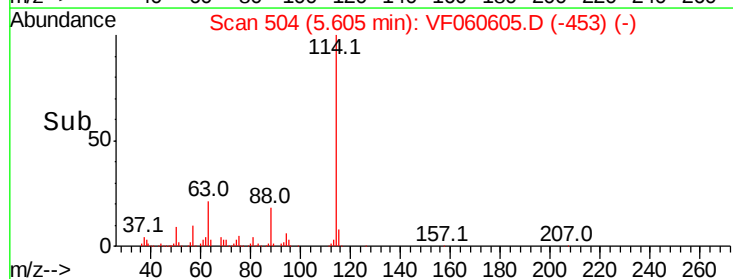
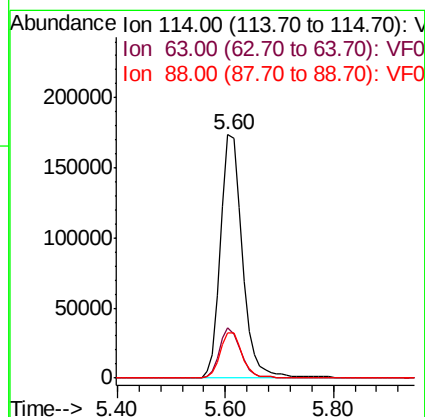
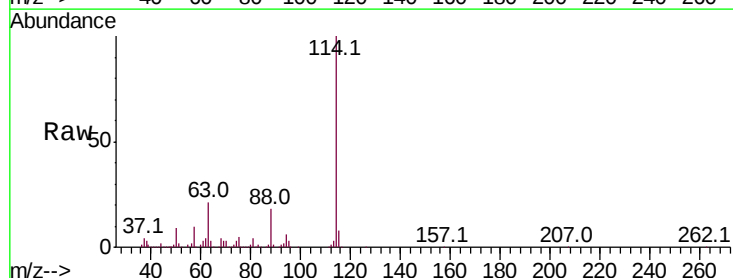
Tgt Ion: 114 Resp: 488488

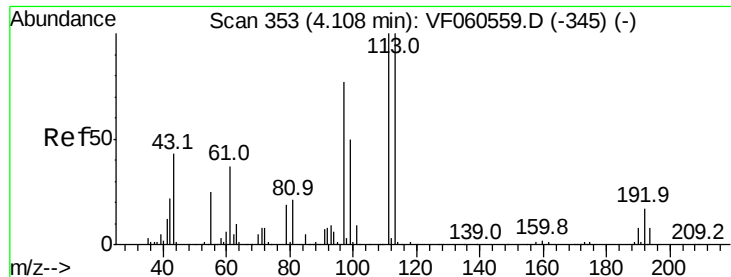
Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.0

88 18.5 0.0 38.2

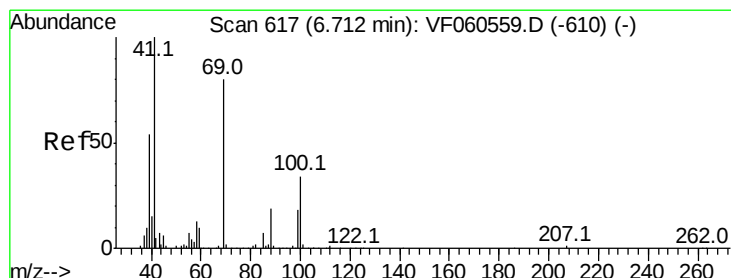
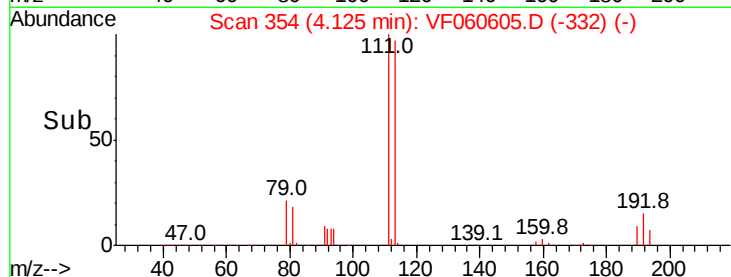
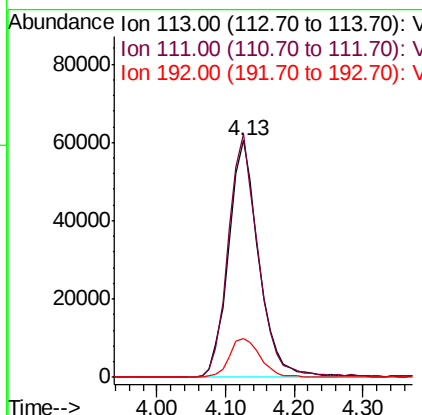
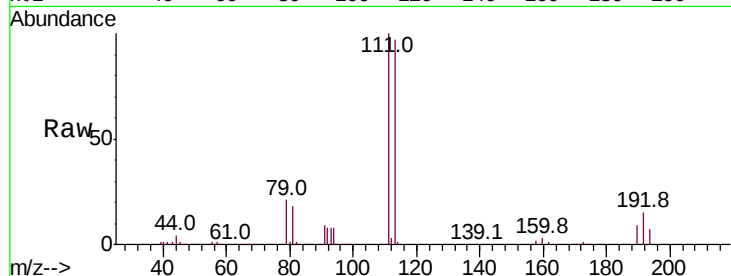




#35
 Dibromofluoromethane
 Concen: 48.933 ug/l
 RT: 4.13 min Scan# 354
 Delta R.T. 0.02 min
 Lab File: VF060605.D
 Acq: 6 Nov 2018 10:03

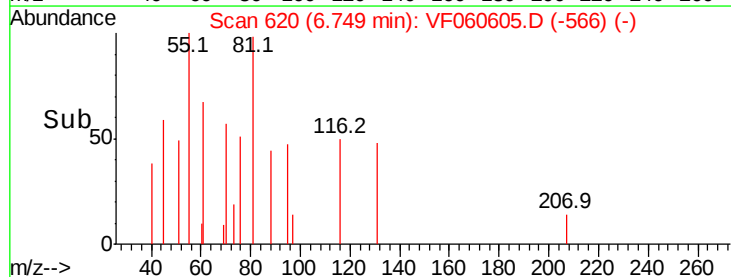
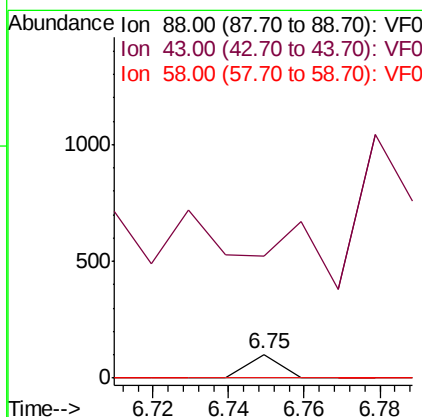
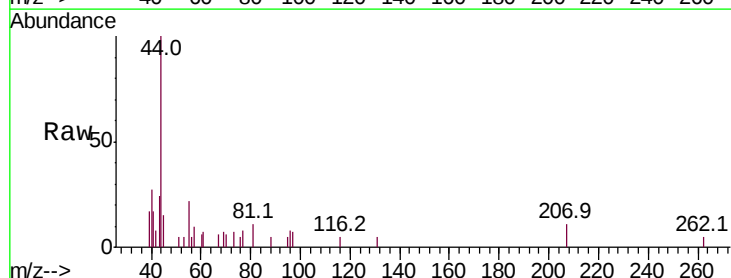
Instrument :
 MSVOA_F
 ClientSampleId :

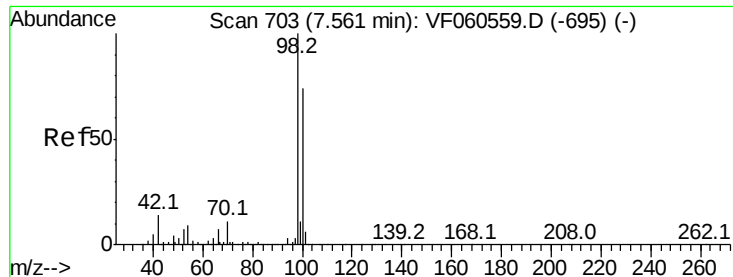
Tot Ion:113 Resp: 184677
 Ion Ratio Lower Upper
 113 100
 111 102.7 79.9 119.9
 192 16.3 13.3 19.9



#49
 1,4-Dioxane
 Concen: 2.794 ug/l
 RT: 6.75 min Scan# 620
 Delta R.T. 0.04 min
 Lab File: VF060605.D
 Acq: 6 Nov 2018 10:03

Tgt Ion: 88 Resp: 60
 Ion Ratio Lower Upper
 88 100
 43 510.8 61.2 91.8#
 58 0.0 56.9 85.3#





#50

Toluene-d8

Concen: 40.277 ug/l

RT: 7.57 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

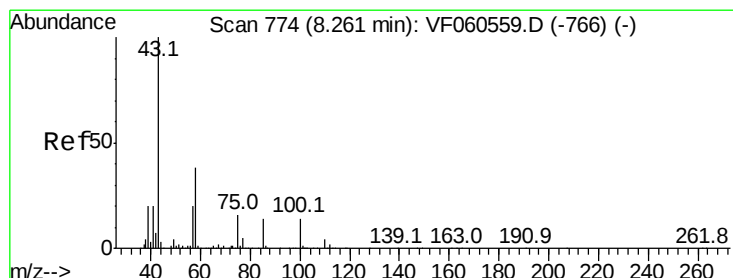
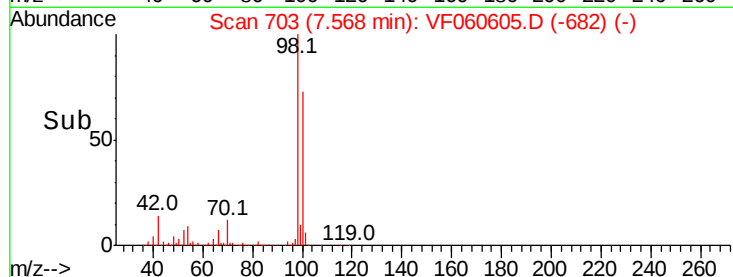
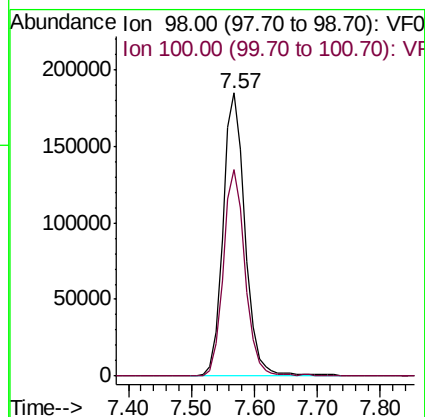
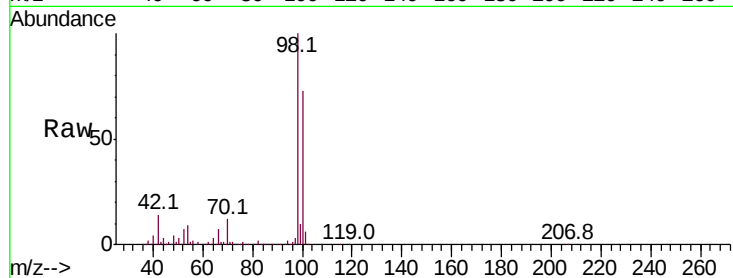
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 450287

Ion Ratio Lower Upper

98 100

100 73.1 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 1.078 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF060605.D

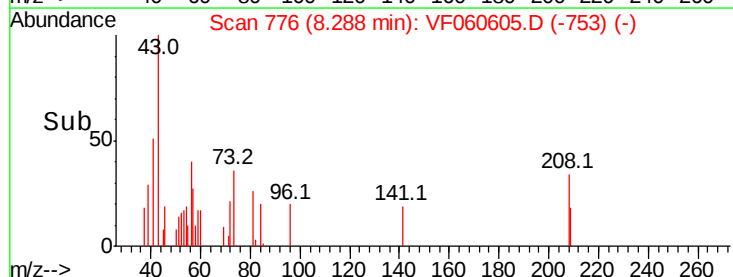
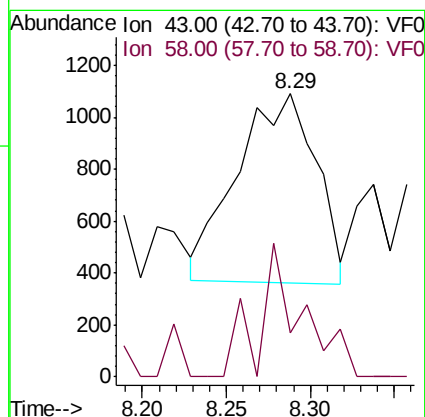
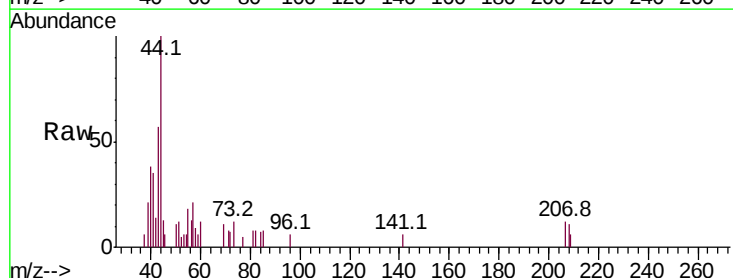
Acq: 6 Nov 2018 10:03

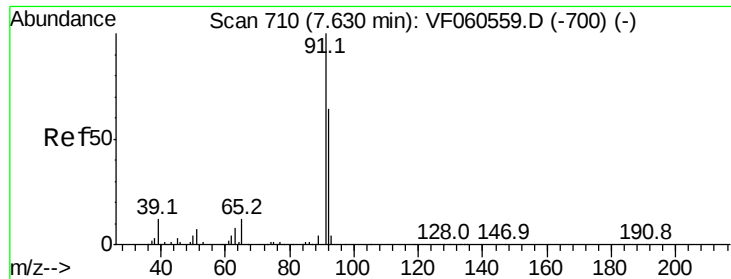
Tgt Ion: 43 Resp: 2367

Ion Ratio Lower Upper

43 100

58 15.3 30.1 45.1#





#52

Toluene

Concen: 2.345 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

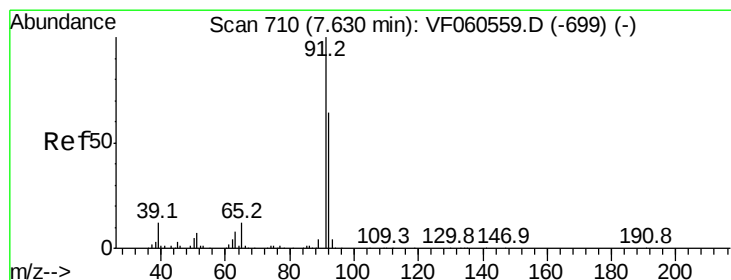
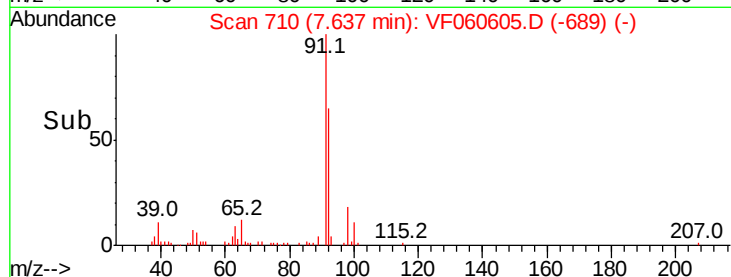
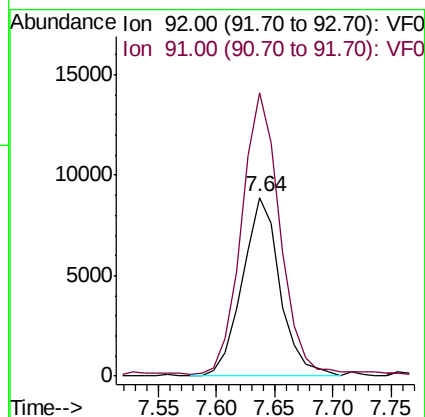
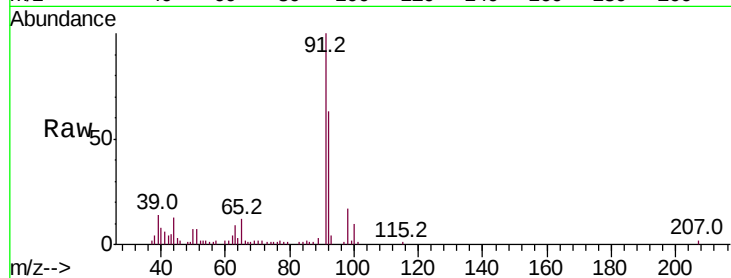
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 19944

Ion Ratio Lower Upper

92 100

91 158.6 124.5 186.7



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF060605.D

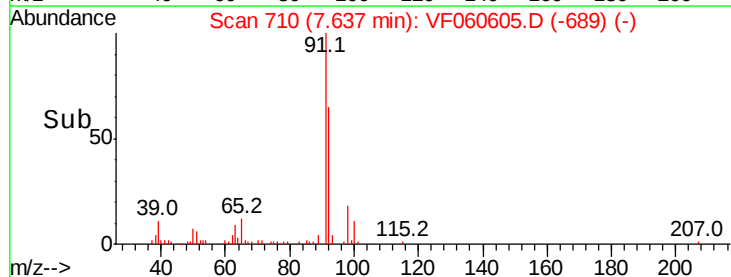
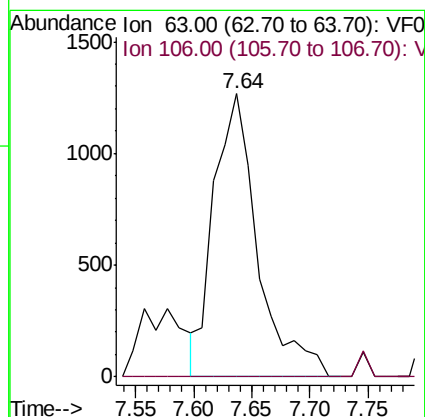
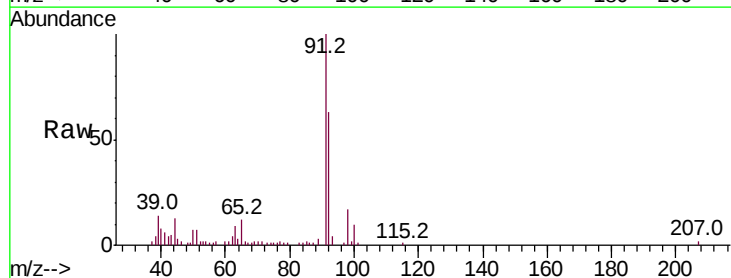
Acq: 6 Nov 2018 10:03

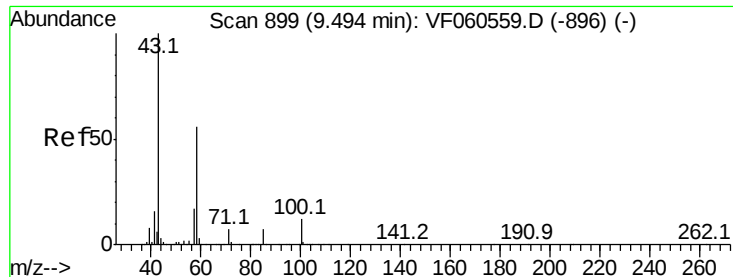
Tgt Ion: 63 Resp: 3303

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

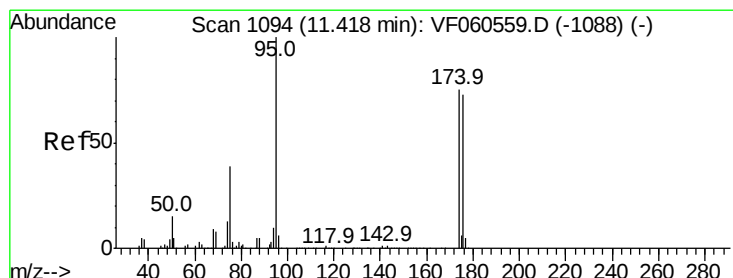
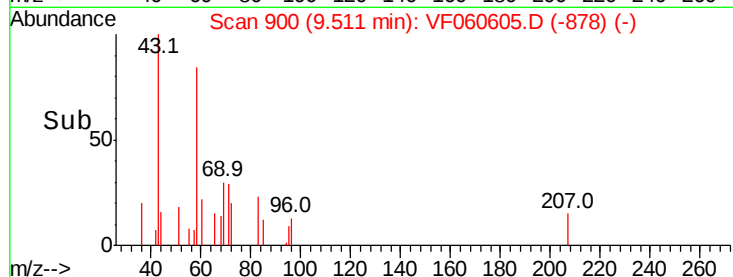
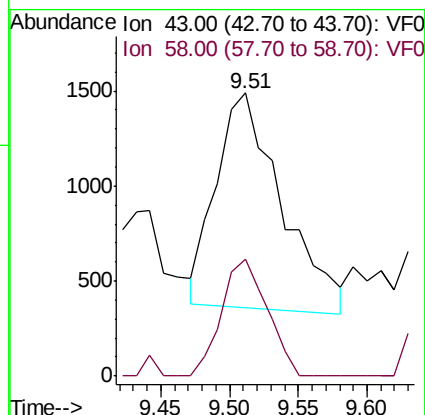
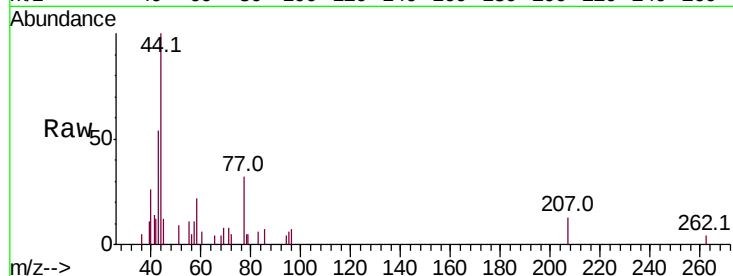




#59
2-Hexanone
Concen: Below Cal
RT: 9.51 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF060605.D
Acq: 6 Nov 2018 10:03

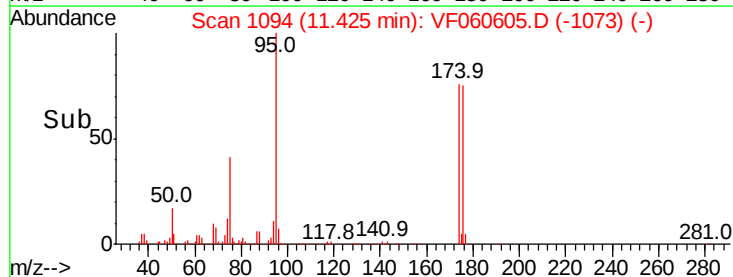
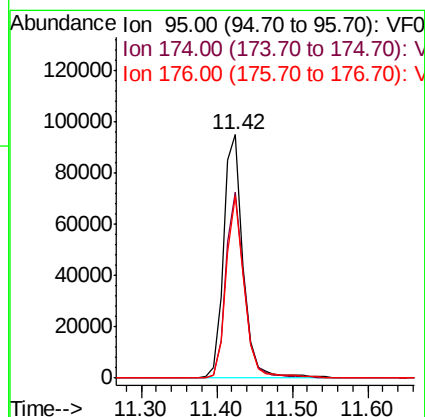
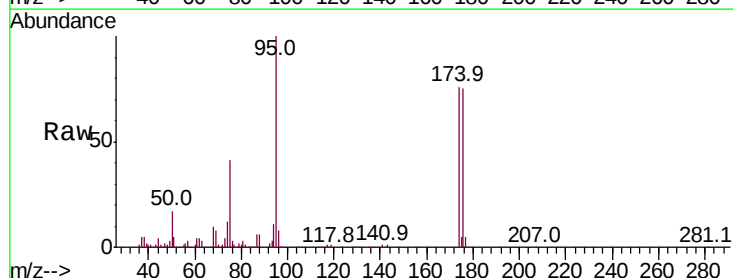
Instrument :
MSVOA_F
ClientSampled :

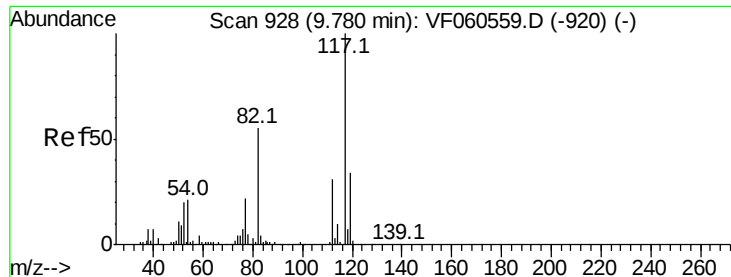
Tot Ion: 43 Resp: 3729
Ion Ratio Lower Upper
43 100
58 41.3 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 35.006 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF060605.D
Acq: 6 Nov 2018 10:03

Tgt Ion: 95 Resp: 171188
Ion Ratio Lower Upper
95 100
174 76.4 0.0 149.0
176 74.9 0.0 145.6

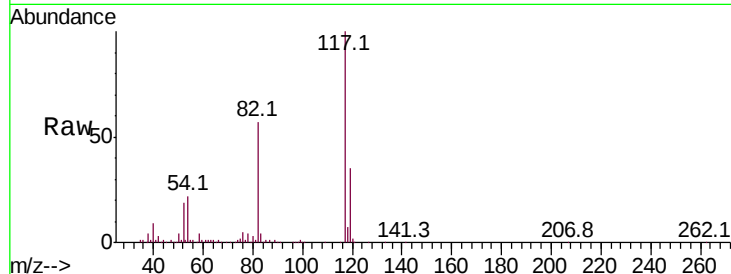




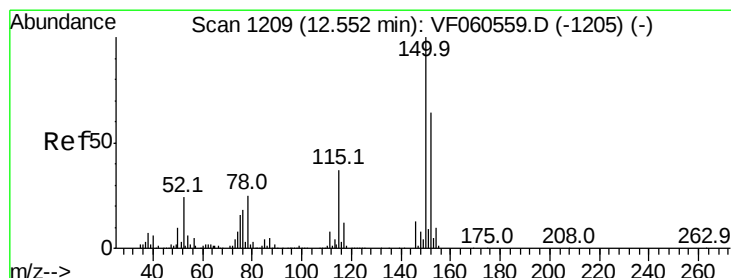
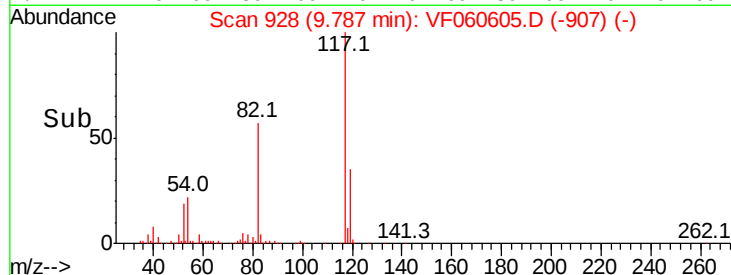
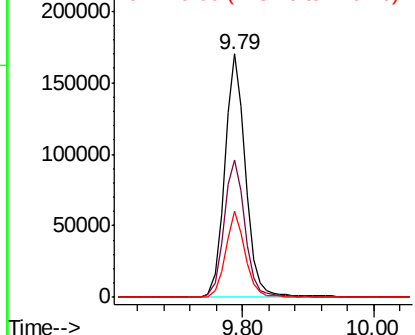
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF060605.D
Acq: 6 Nov 2018 10:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	43.9	65.9
119	35.3	27.4	41.0

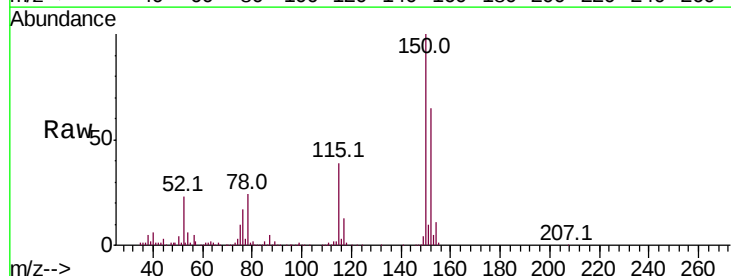


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

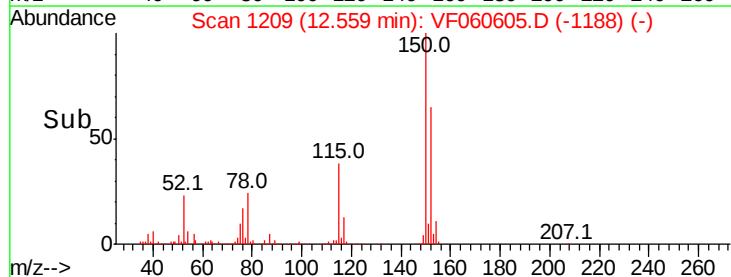
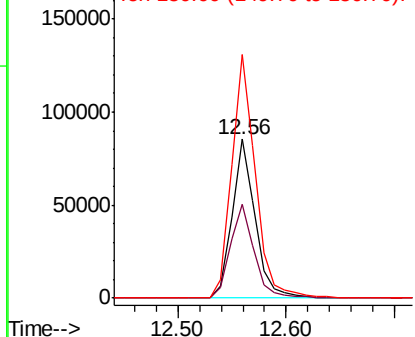


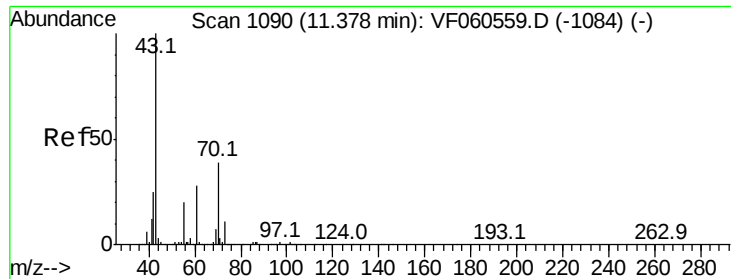
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF060605.D
Acq: 6 Nov 2018 10:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.3	29.6	88.8
150	153.5	0.0	315.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 11.41 min Scan# 1092

Delta R.T. 0.03 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

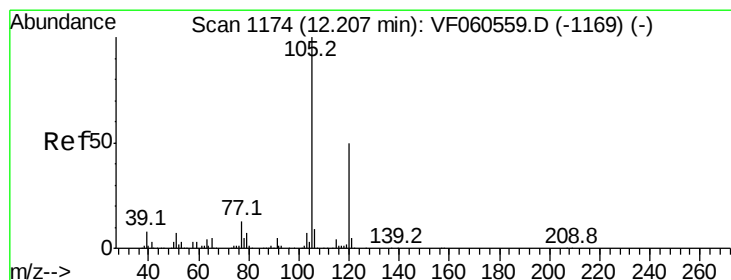
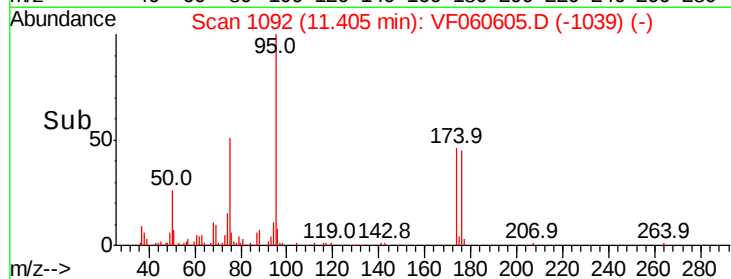
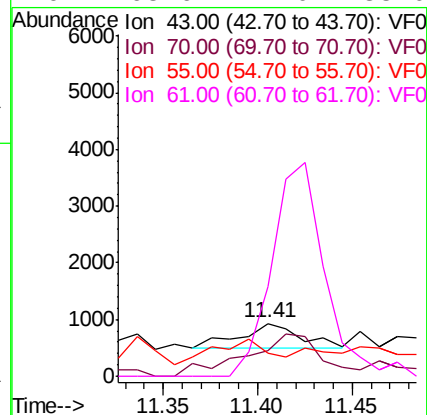
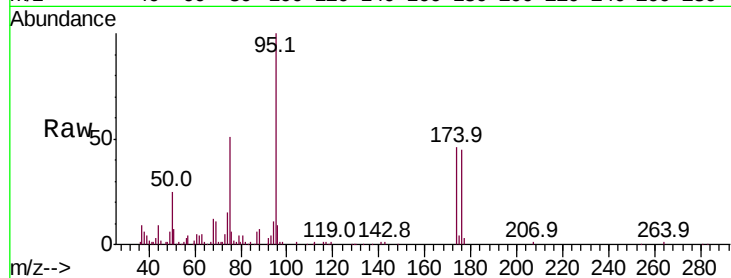
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 1013

Ion	Ratio	Lower	Upper
43	100		
70	47.5	30.9	46.3#
55	44.7	16.6	24.8#
61	168.6	22.0	33.0#



#84

1,2,4-Trimethylbenzene

Concen: 1.110 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VF060605.D

Acq: 6 Nov 2018 10:03

Tgt Ion: 105 Resp: 8885

Ion	Ratio	Lower	Upper
105	100		
120	54.5	25.6	76.8

