

Data File : VF060698.D
Acq On : 12 Nov 2018 21:55
Operator : VA/AP
Sample : J5907-15RE
Misc : 4.38g/5mL/MSVOA-F/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
TP-4-S

Quant Time: Nov 13 04:20:00 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	4.86	168	230773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	385053	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	315540	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	136200	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	126166	54.11	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	108.22%	
35) Dibromofluoromethane	4.10	113	154608	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
50) Toluene-d8	7.55	98	358694	40.70	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	81.40%	
62) 4-Bromofluorobenzene	11.40	95	145924	37.86	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	75.72%	

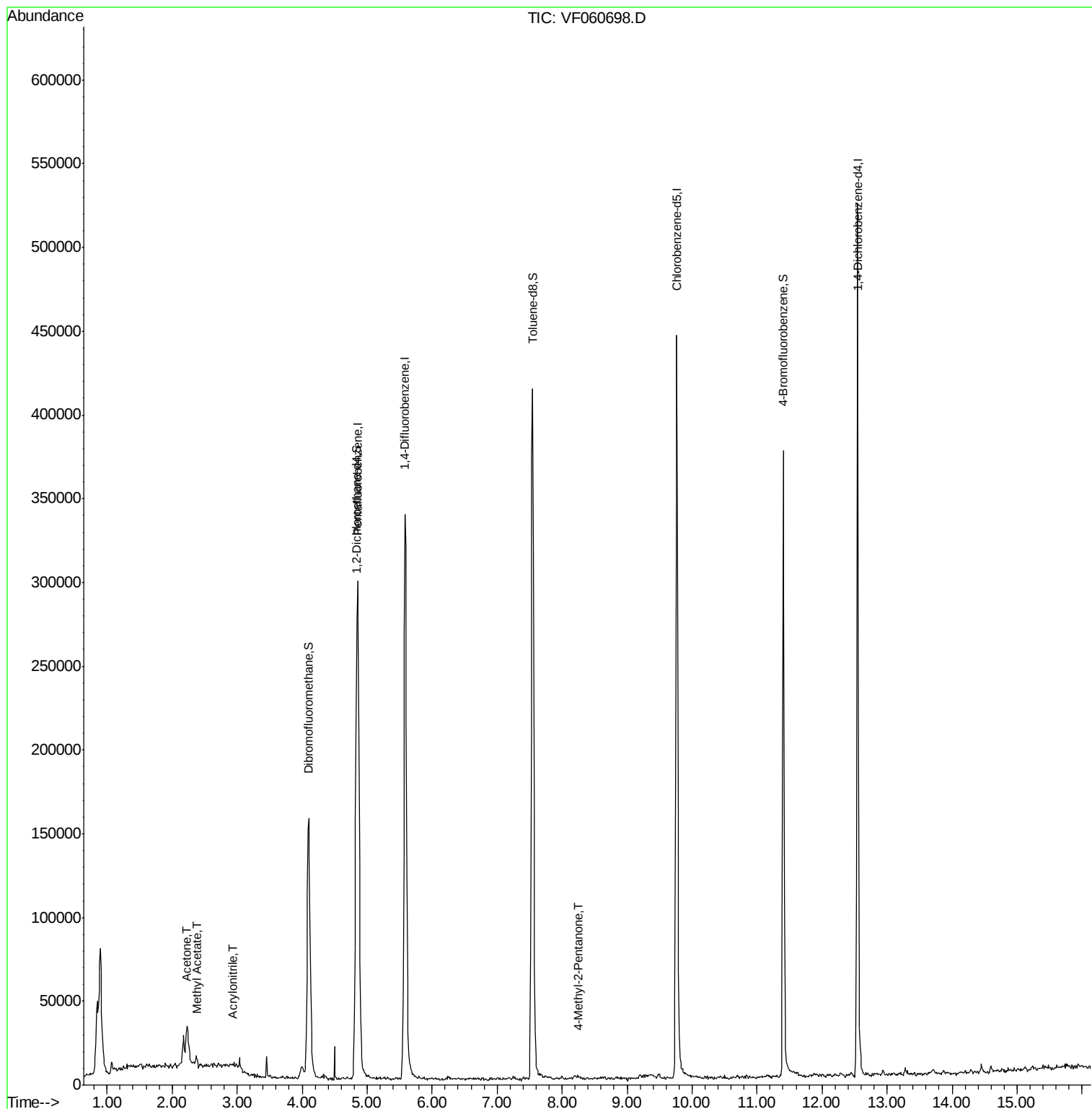
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.01	85	67	Below Cal	#	41
6) Chloroethane	1.35	64	104	Below Cal	#	38
11) Tert butyl alcohol	2.54	59	237	Below Cal	#	1
13) Acrolein	2.01	56	371	Below Cal	#	59
15) Acrylonitrile	2.93	53	448	1.612	ug/l #	38
16) Acetone	2.23	43	21258	38.691	ug/l	96
18) Methyl Acetate	2.39	43	2073	2.885	ug/l #	64
20) Methylene Chloride	2.24	84	7900	Below Cal	#	86
25) 2-Butanone	4.33	43	3114	Below Cal		97
29) Tetrahydrofuran	4.07	42	1588	Below Cal	#	36
51) 4-Methyl-2-Pentanone	8.25	43	2744	1.585	ug/l #	69
58) 2-Chloroethyl Vinyl ether	7.54	63	189	Below Cal		100
59) 2-Hexanone	9.48	43	2734	Below Cal		68
74) N-amyl acetate	11.36	43	526	Below Cal	#	67
89) n-Butylbenzene	12.83	91	921	Below Cal	#	51

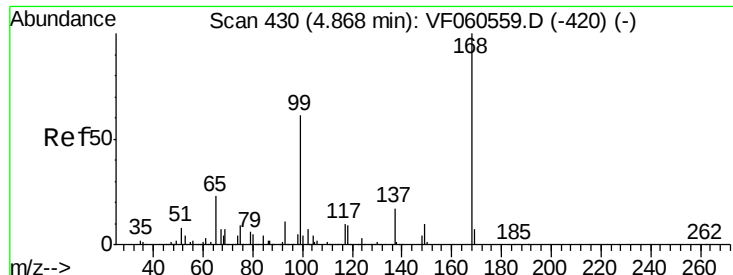
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :

MSVOA_F

ClientSampleId :

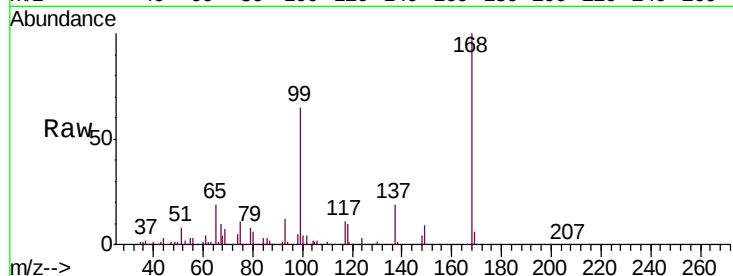
TP-4-S

Tgt Ion:168 Resp: 230773

Ion Ratio Lower Upper

168 100

99 64.9 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

60000

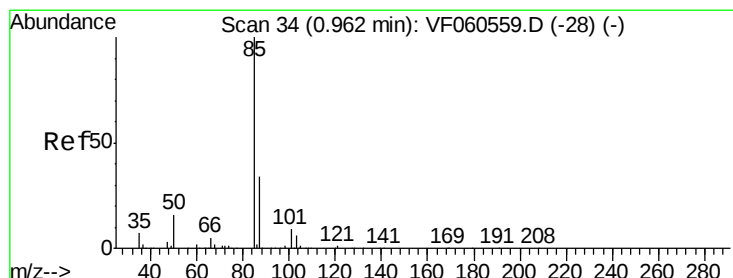
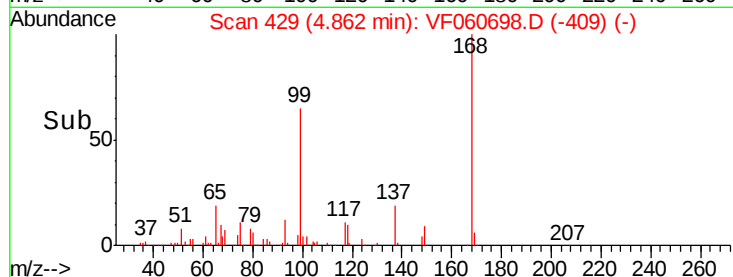
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 38

Delta R.T. 0.04 min

Lab File: VF060698.D

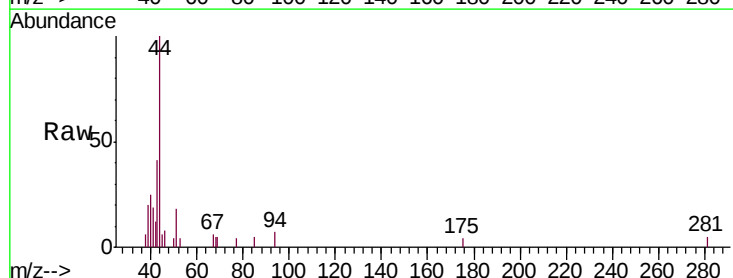
Acq: 12 Nov 2018 21:55

Tgt Ion: 85 Resp: 67

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

1.01

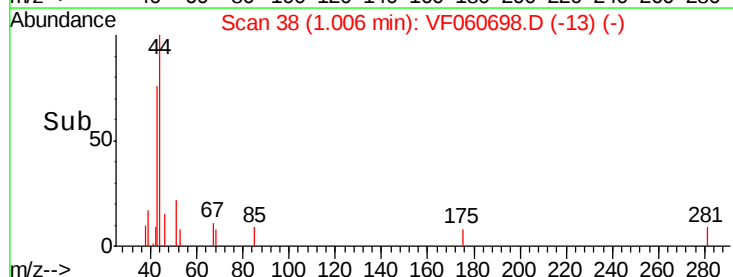
100

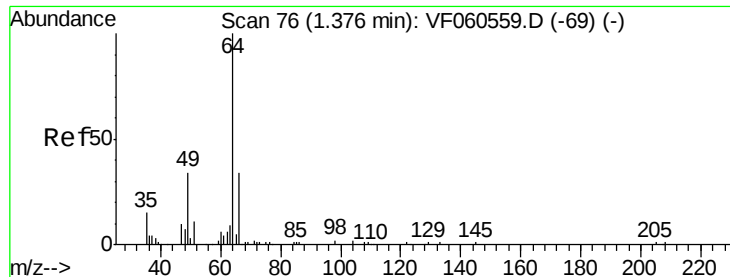
50

0

0.98 1.00 1.02

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.35 min Scan# 73

Delta R.T. -0.02 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :

MSVOA_F

ClientSampleId :

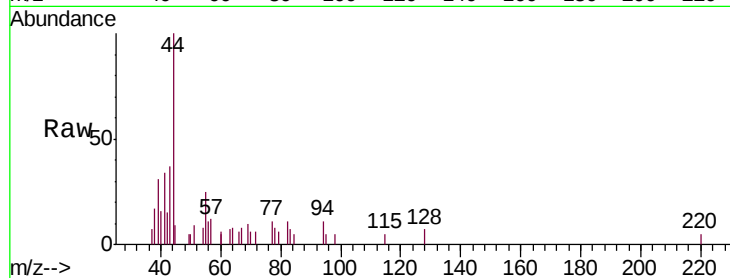
TP-4-S

Tgt Ion: 64 Resp: 104

Ion Ratio Lower Upper

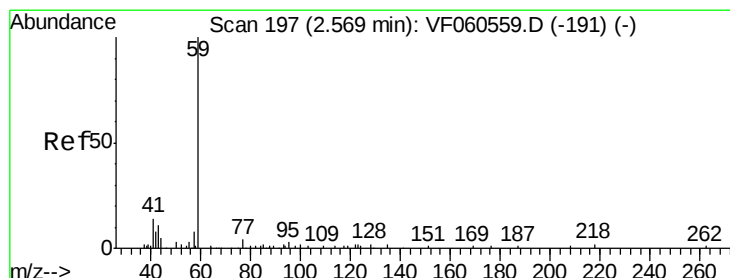
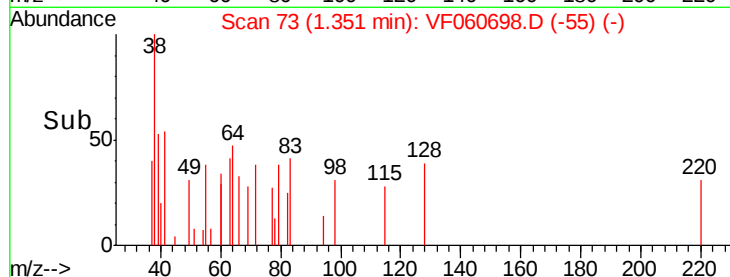
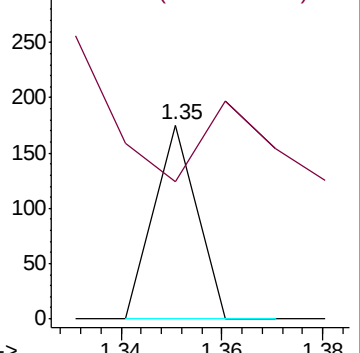
64 100

66 70.9 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.54 min Scan# 194

Delta R.T. -0.02 min

Lab File: VF060698.D

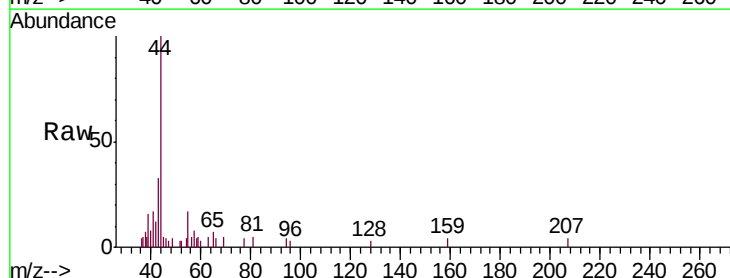
Acq: 12 Nov 2018 21:55

Tgt Ion: 59 Resp: 237

Ion Ratio Lower Upper

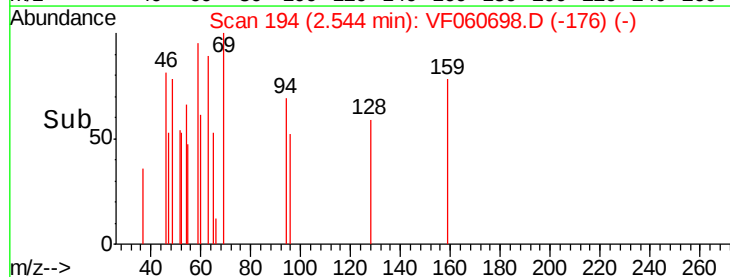
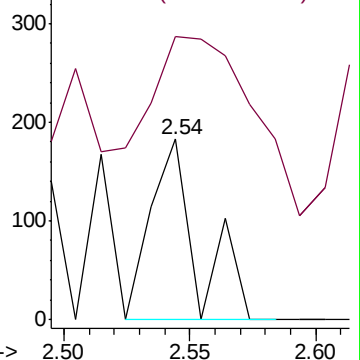
59 100

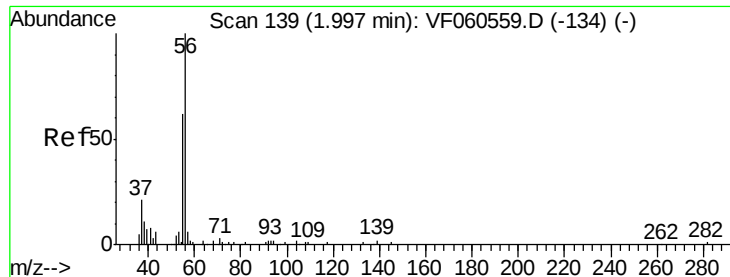
57 156.8 19.0 28.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :

MSVOA_F

ClientSampleId :

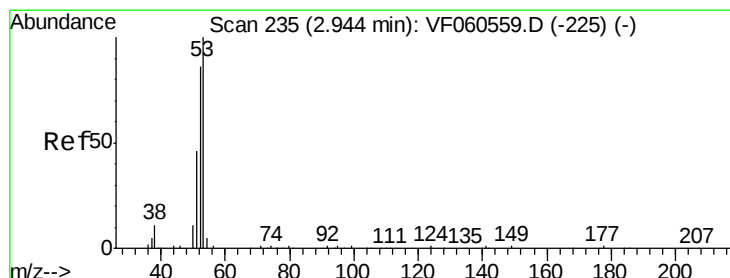
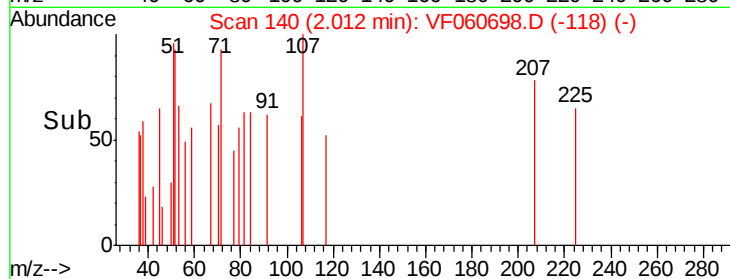
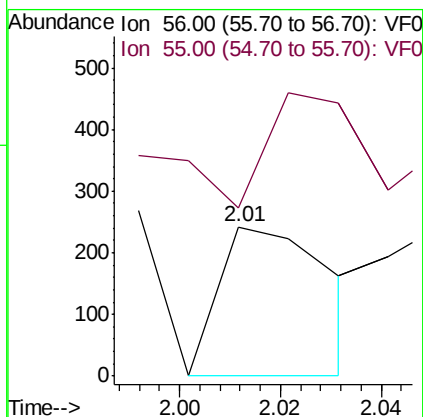
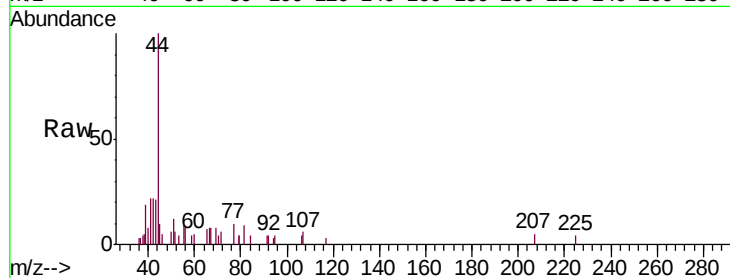
TP-4-S

Tgt Ion: 56 Resp: 371

Ion Ratio Lower Upper

56 100

55 112.4 61.8 92.6#



#15

Acrylonitrile

Concen: 1.612 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

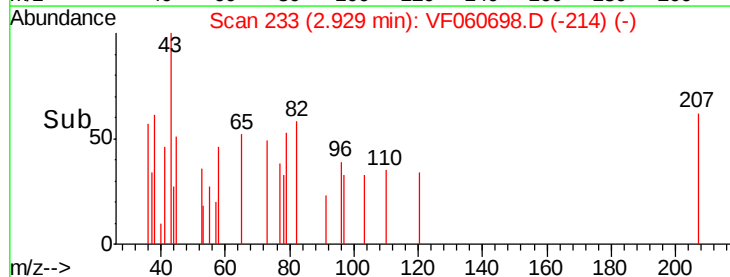
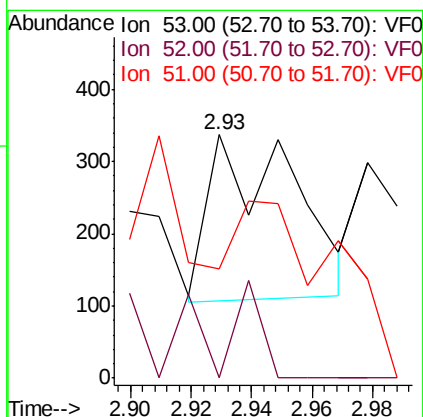
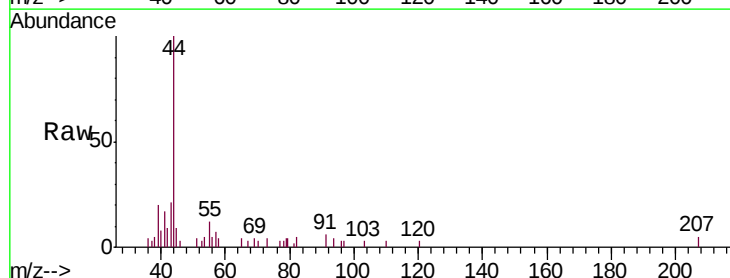
Tgt Ion: 53 Resp: 448

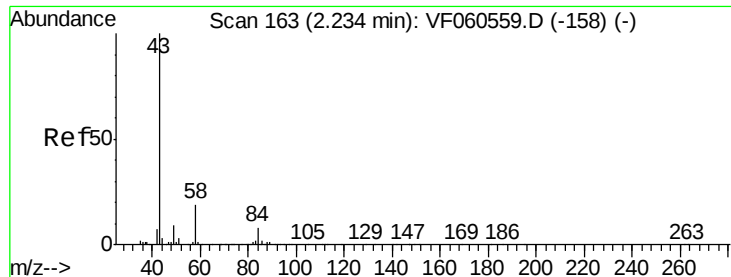
Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 44.8 38.2 57.2





#16

Acetone

Concen: 38.691 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :

MSVOA_F

ClientSampleId :

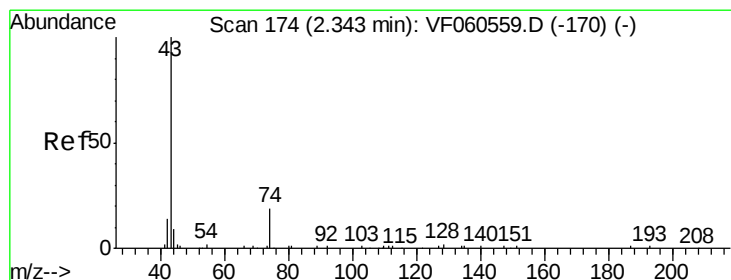
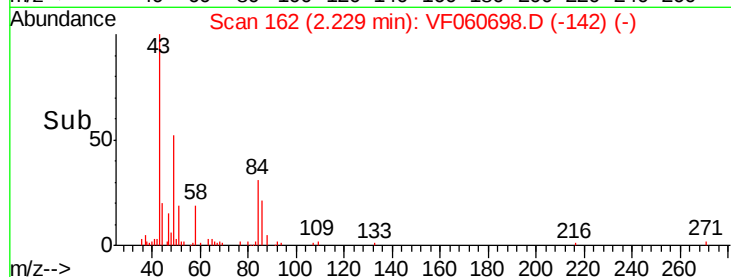
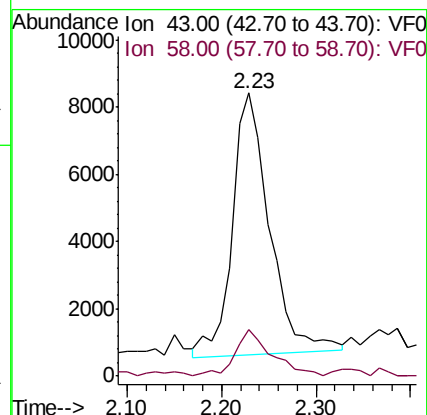
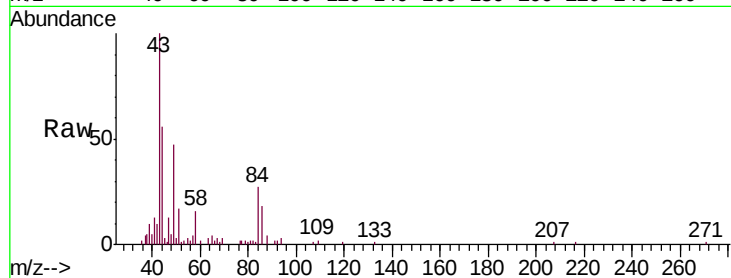
TP-4-S

Tgt Ion: 43 Resp: 21258

Ion Ratio Lower Upper

43 100

58 16.4 14.6 22.0



#18

Methyl Acetate

Concen: 2.885 ug/l

RT: 2.39 min Scan# 178

Delta R.T. 0.04 min

Lab File: VF060698.D

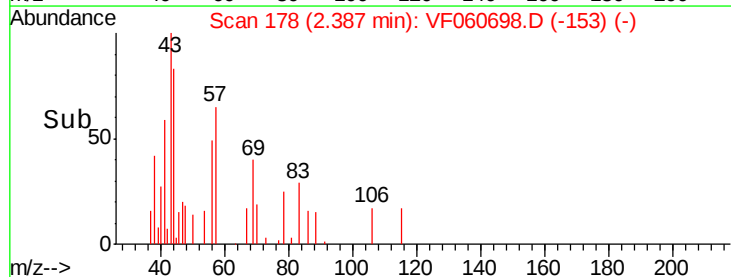
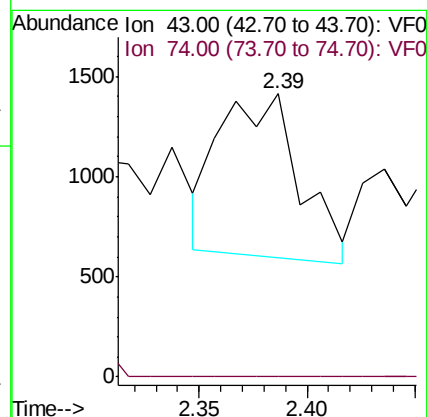
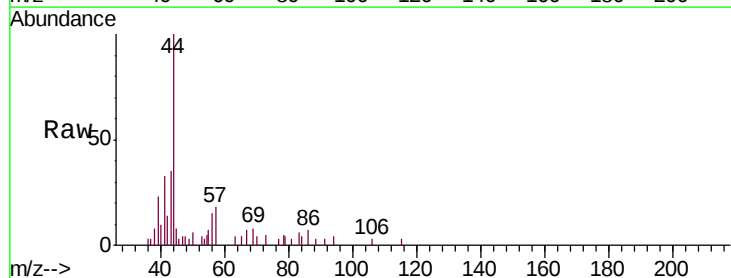
Acq: 12 Nov 2018 21:55

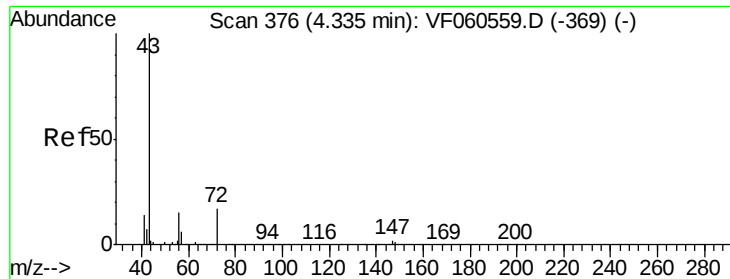
Tgt Ion: 43 Resp: 2073

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#





#25

2-Butanone

Concen: Below Cal

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :

MSVOA_F

ClientSampleId :

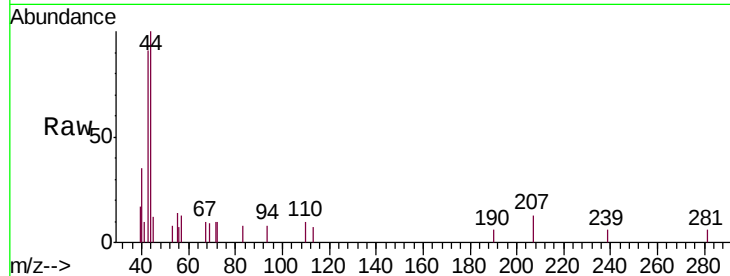
TP-4-S

Tgt Ion: 43 Resp: 3114

Ion Ratio Lower Upper

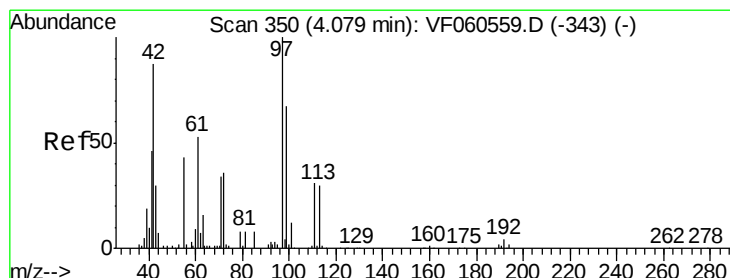
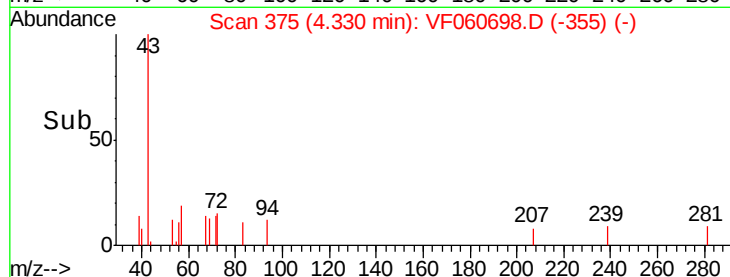
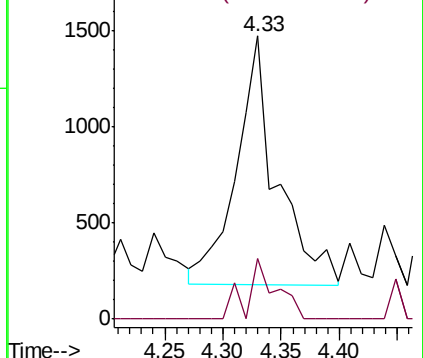
43 100

72 21.7 16.2 24.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.07 min Scan# 349

Delta R.T. -0.00 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

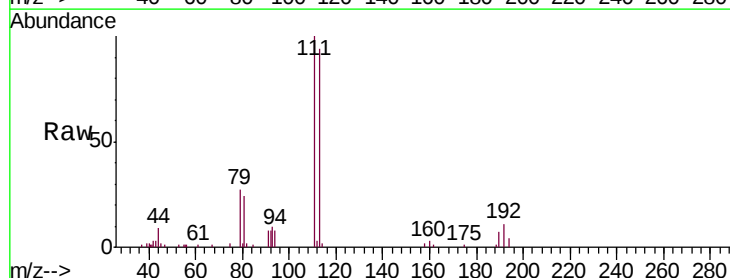
Tgt Ion: 42 Resp: 1588

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

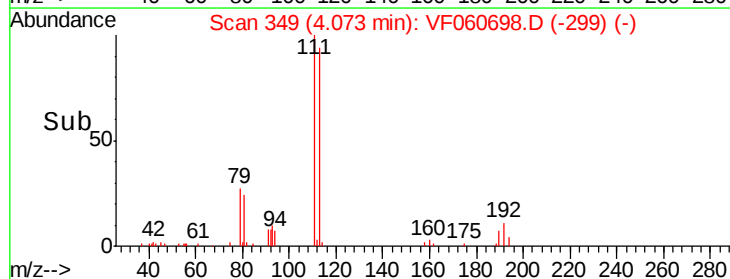
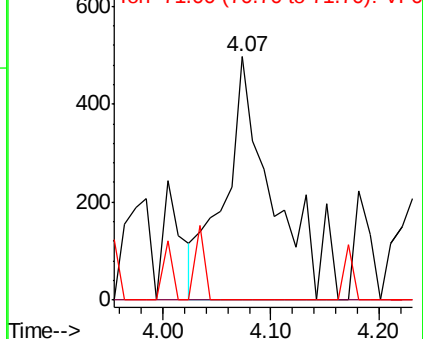
71 0.0 31.8 47.6#

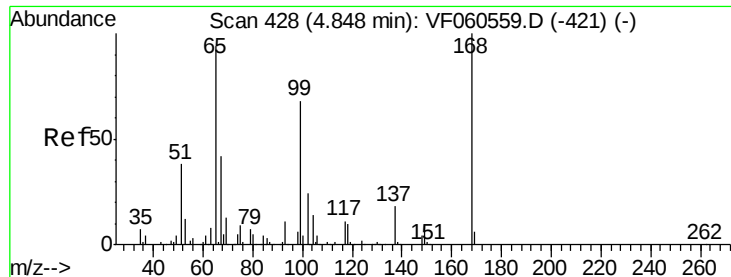


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 54.110 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :

MSVOA_F

ClientSampled :

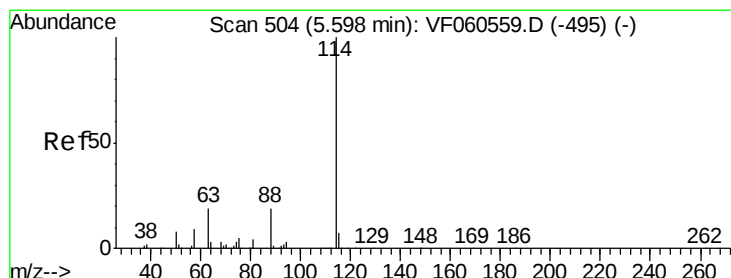
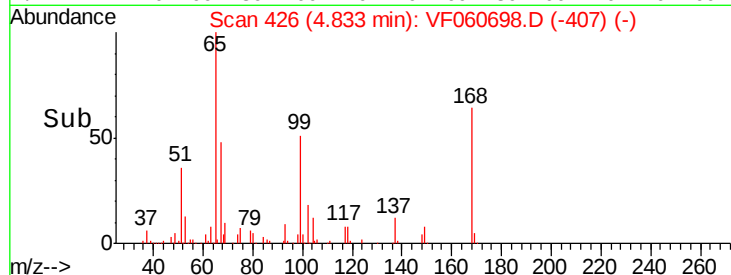
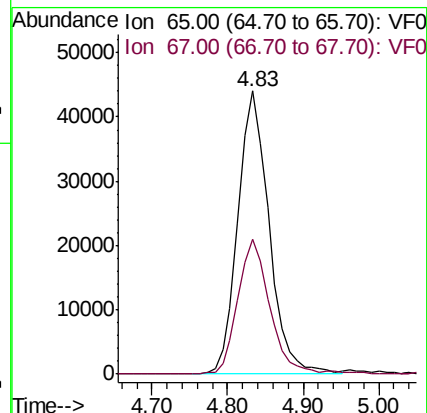
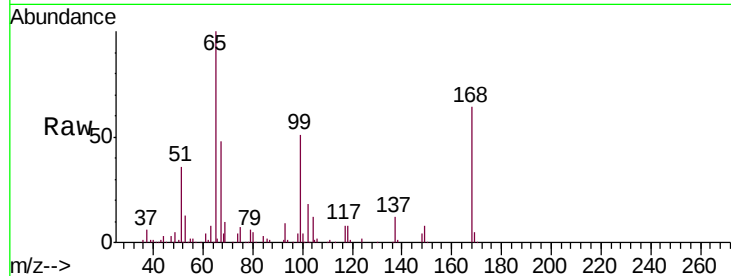
TP-4-S

Tgt Ion: 65 Resp: 126166

Ion Ratio Lower Upper

65 100

67 47.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

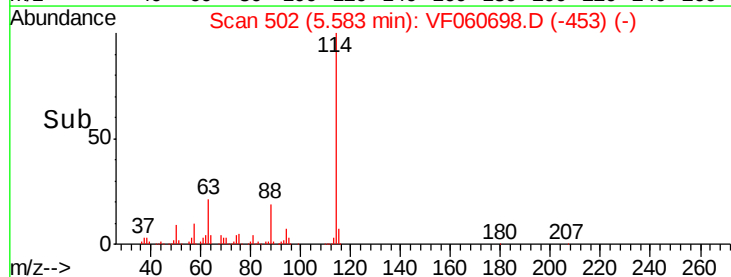
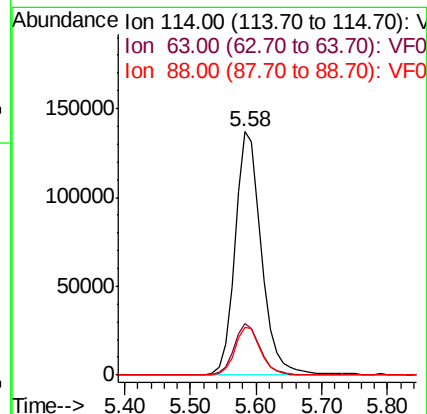
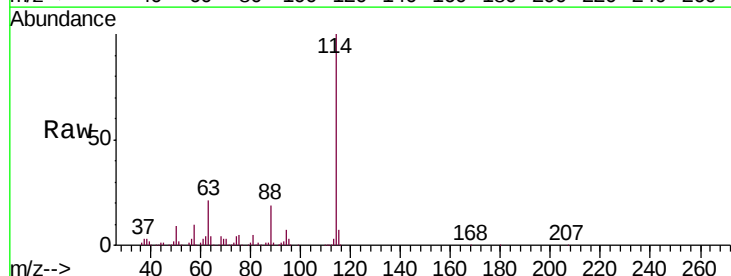
Tgt Ion: 114 Resp: 385053

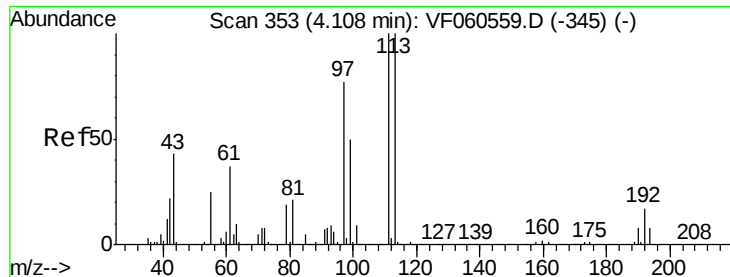
Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.0

88 19.4 0.0 38.2





#35

Dibromofluoromethane

Concen: 51.971 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :
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ClientSampleId :
TP-4-S

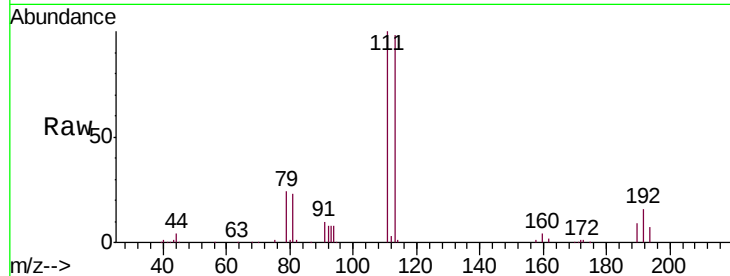
Tgt Ion:113 Resp: 154608

Ion Ratio Lower Upper

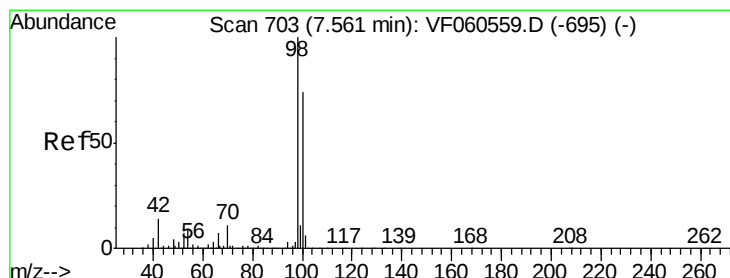
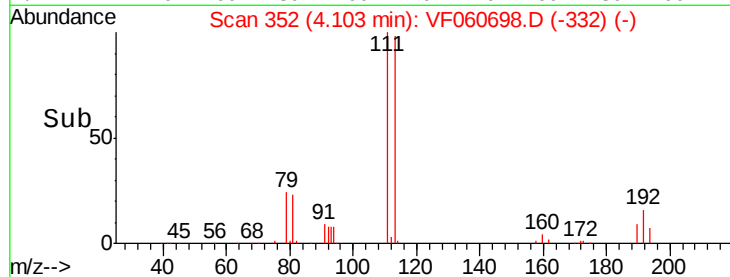
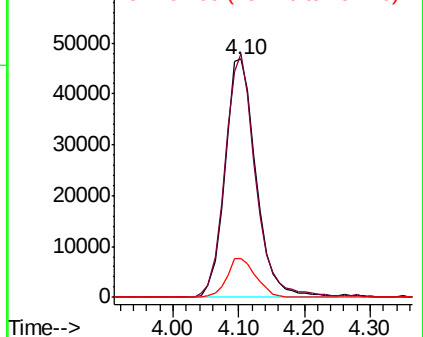
113 100

111 102.3 79.9 119.9

192 16.2 13.3 19.9



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



#50

Toluene-d8

Concen: 40.703 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF060698.D

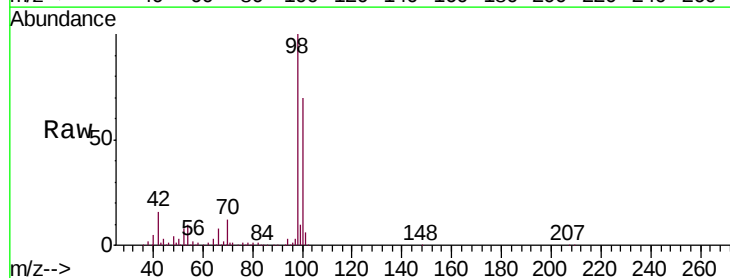
Acq: 12 Nov 2018 21:55

Tgt Ion: 98 Resp: 358694

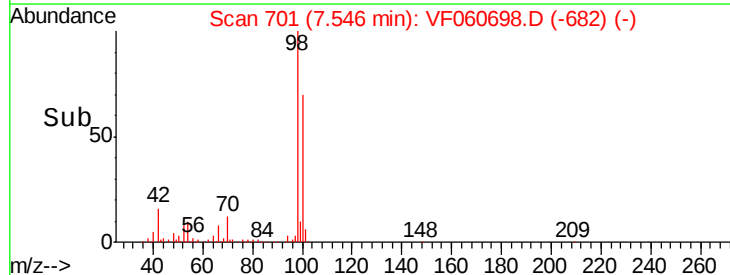
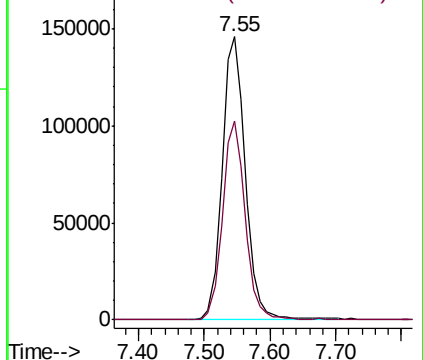
Ion Ratio Lower Upper

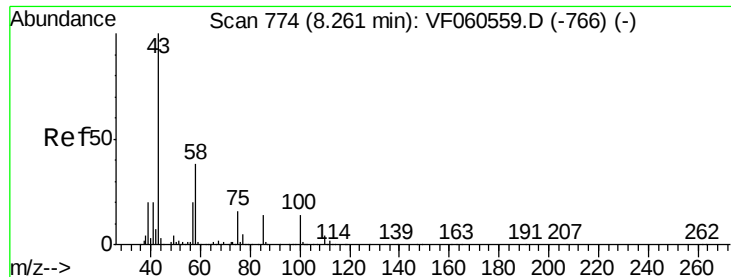
98 100

100 70.3 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 1.585 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF060698.D

Acq: 12 Nov 2018 21:55

Instrument :

MSVOA_F

ClientSampled :

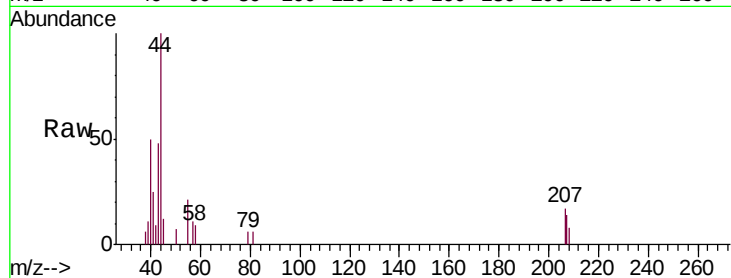
TP-4-S

Tgt Ion: 43 Resp: 2744

Ion Ratio Lower Upper

43 100

58 19.1 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

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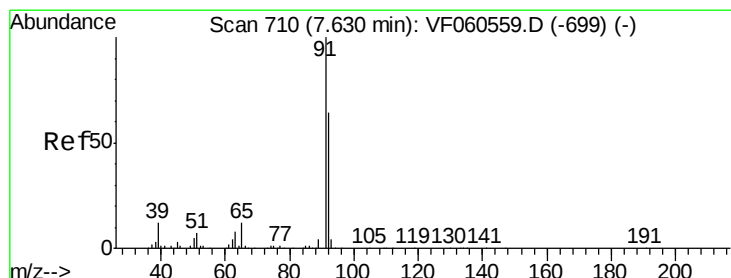
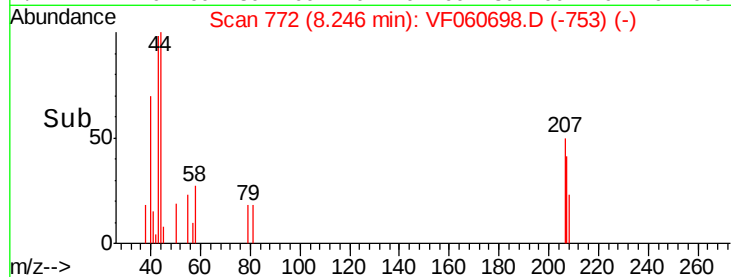
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#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.54 min Scan# 700

Delta R.T. -0.09 min

Lab File: VF060698.D

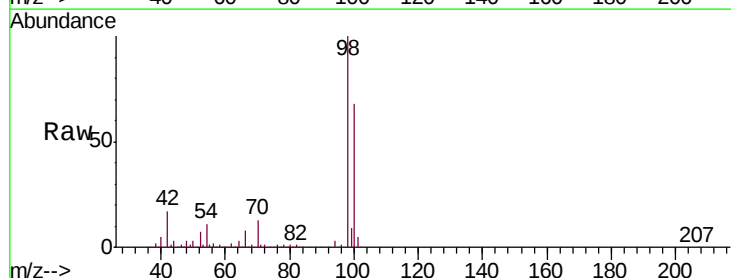
Acq: 12 Nov 2018 21:55

Tgt Ion: 63 Resp: 189

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

7.54

7.54

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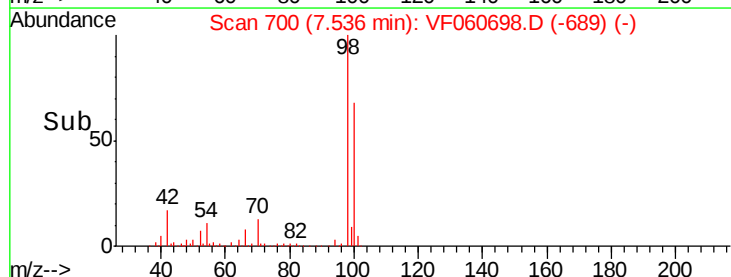
7.54

7.54

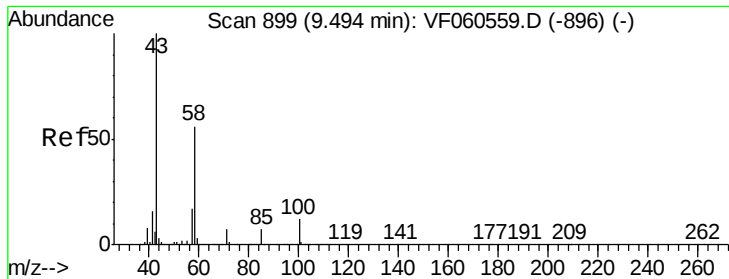
7.54

7.54

7.54



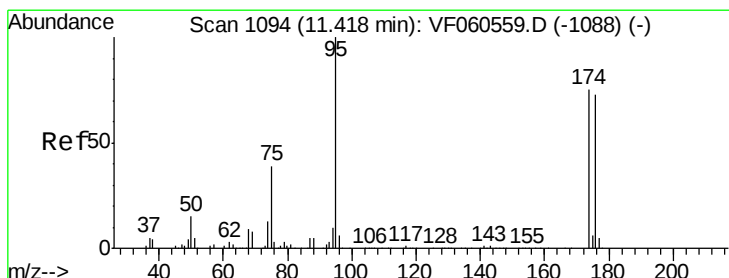
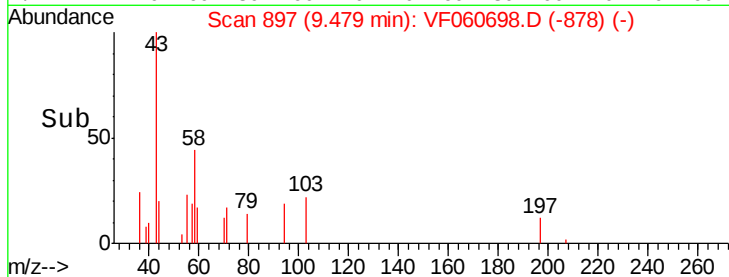
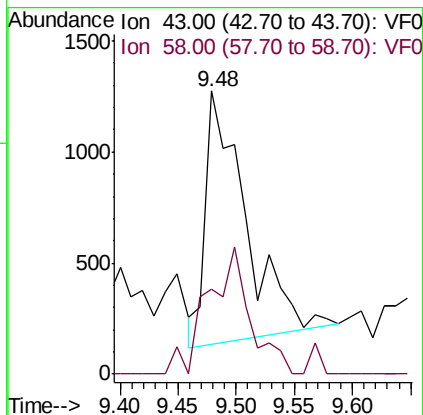
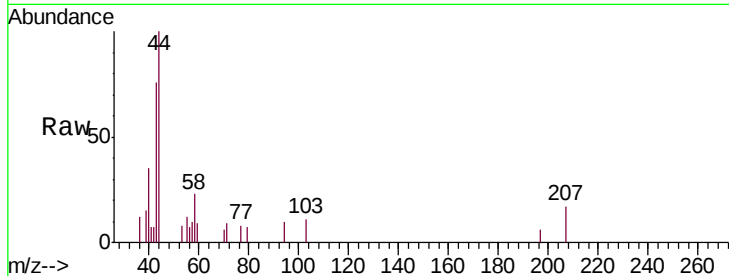
Time-->



#59
2-Hexanone
Concen: Below Cal
RT: 9.48 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF060698.D
Acq: 12 Nov 2018 21:55

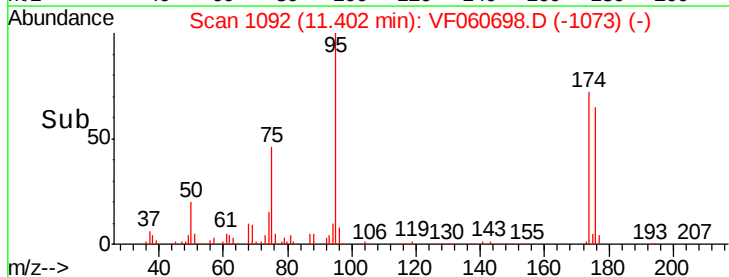
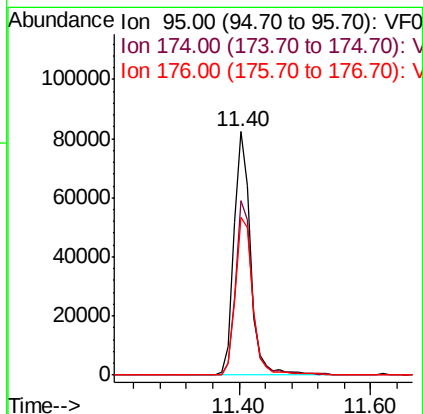
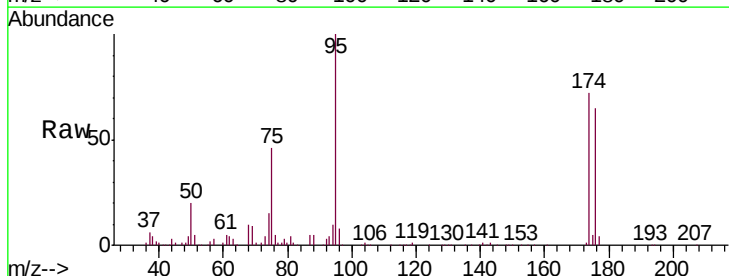
Instrument :
MSVOA_F
ClientSampled :
TP-4-S

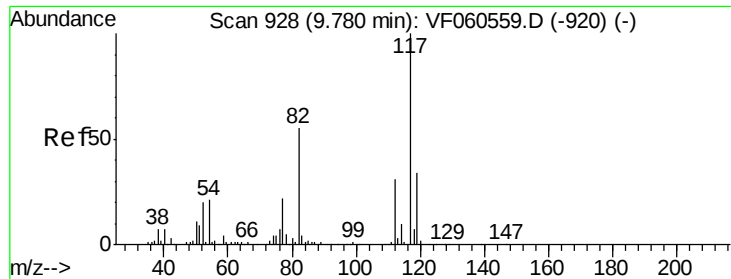
Tgt Ion: 43 Resp: 2734
Ion Ratio Lower Upper
43 100
58 29.9 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 37.856 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.02 min
Lab File: VF060698.D
Acq: 12 Nov 2018 21:55

Tgt Ion: 95 Resp: 145924
Ion Ratio Lower Upper
95 100
174 71.8 0.0 149.0
176 64.6 0.0 145.6

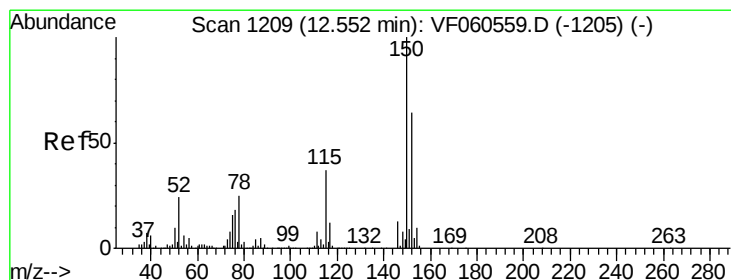
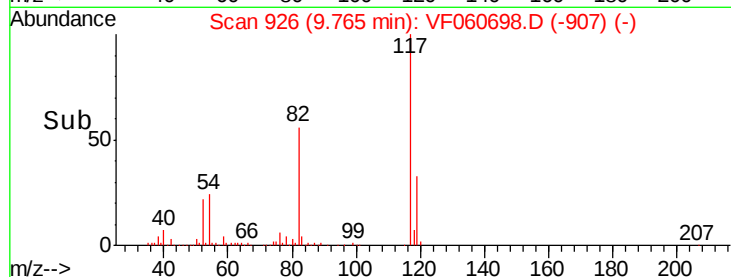
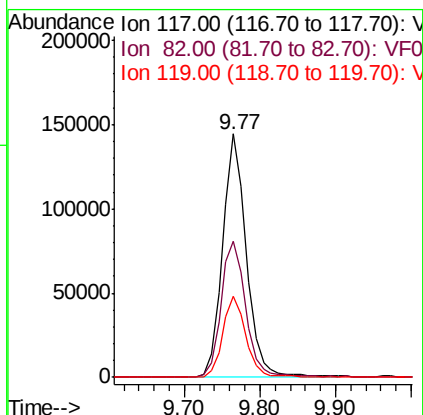
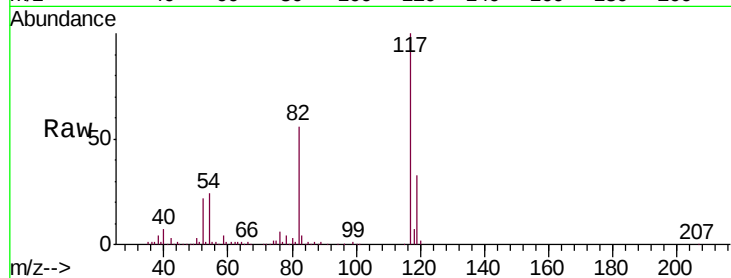




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060698.D
Acq: 12 Nov 2018 21:55

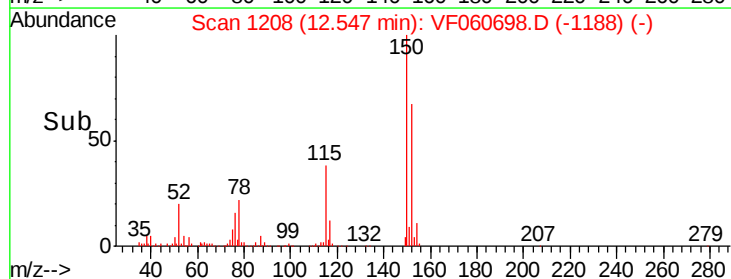
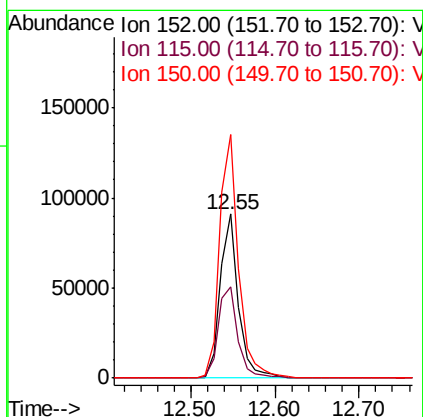
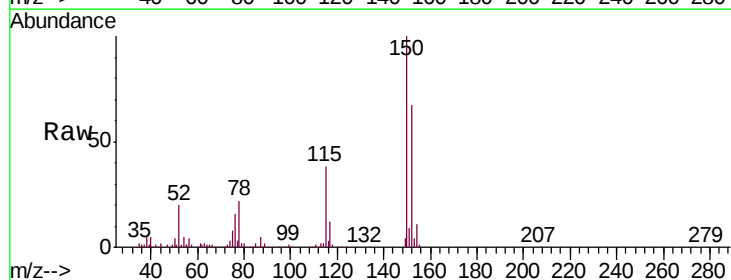
Instrument :
MSVOA_F
ClientSampleId :
TP-4-S

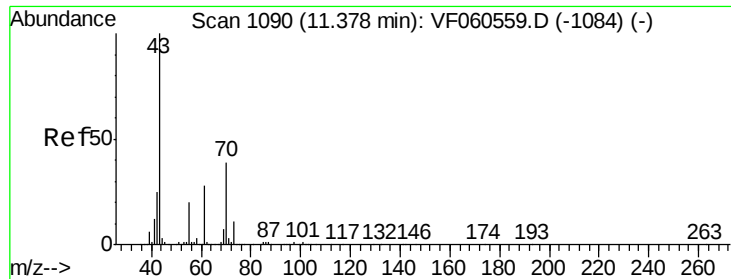
Tgt Ion:117 Resp: 315540
Ion Ratio Lower Upper
117 100
82 56.1 43.9 65.9
119 33.1 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF060698.D
Acq: 12 Nov 2018 21:55

Tgt Ion:152 Resp: 136200
Ion Ratio Lower Upper
152 100
115 55.6 29.6 88.8
150 148.3 0.0 315.6





#74
N-amyI acetate
Concen: Below Cal
RT: 11.36 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VF060698.D
Acq: 12 Nov 2018 21:55

Instrument :
MSVOA_F
ClientSampleId :
TP-4-S

Tgt Ion: 43 Resp: 526
Ion Ratio Lower Upper
43 100
70 34.2 30.9 46.3
55 45.7 16.6 24.8#
61 0.0 22.0 33.0#

