

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF112818\
 Data File : VF060864.D
 Acq On : 28 Nov 2018 19:02
 Operator : VA/AP
 Sample : 2CVE CHECK
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 2CVE CHECK

Quant Time: Nov 29 10:00:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	194854	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.62	114	326791	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	323575	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	178602	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	133077	57.97	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	115.94%	
35) Dibromofluoromethane	4.14	113	146173	56.38	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	112.76%	
50) Toluene-d8	7.57	98	384020	50.29	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	100.58%	
62) 4-Bromofluorobenzene	11.43	95	191587	55.20	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	110.40%	

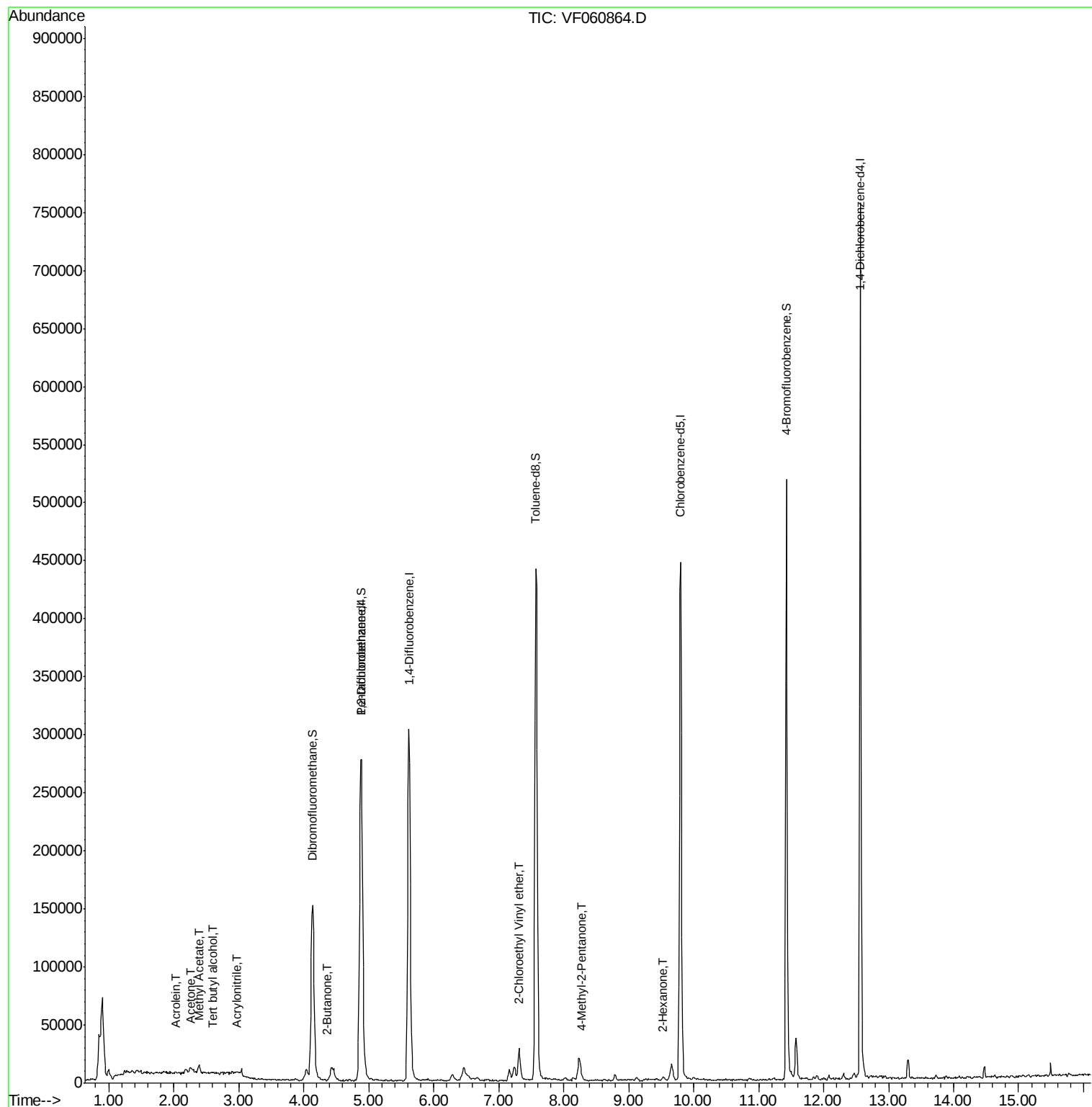
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.60	59	120	1.28	ug/l #	1
13) Acrolein	2.05	56	398	4.46	ug/l #	1
15) Acrylonitrile	2.96	53	499	2.37	ug/l #	3
16) Acetone	2.25	43	1599	3.78	ug/l	94
18) Methyl Acetate	2.40	43	3289	3.08	ug/l #	61
25) 2-Butanone	4.37	43	804	1.10	ug/l #	57
41) Methacrylonitrile	4.74	41	94	Below Cal	#	23
43) Isopropyl Acetate	6.98	43	464	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.29	43	2279	1.68	ug/l #	68
58) 2-Chloroethyl Vinyl ether	7.32	63	12964	69.61	ug/l	97
59) 2-Hexanone	9.53	43	1417	1.49	ug/l #	27
95) Naphthalene	14.47	128	4811	Below Cal	#	94

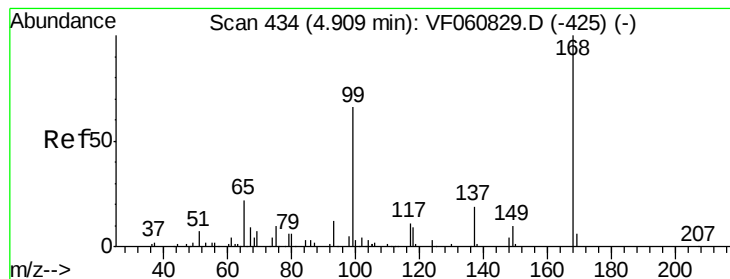
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

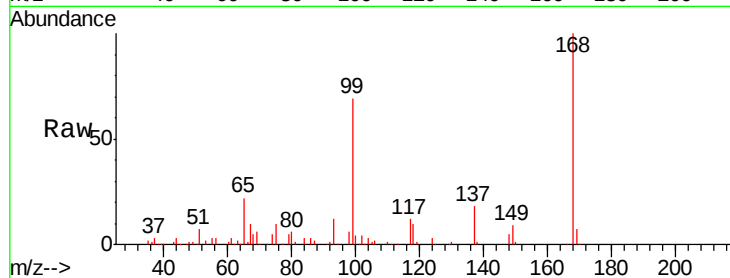
2CVE CHECK

Tgt Ion:168 Resp: 194854

Ion Ratio Lower Upper

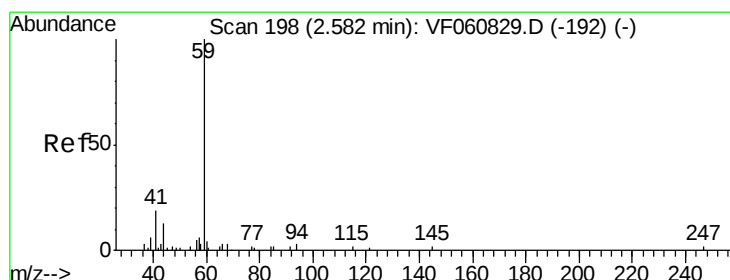
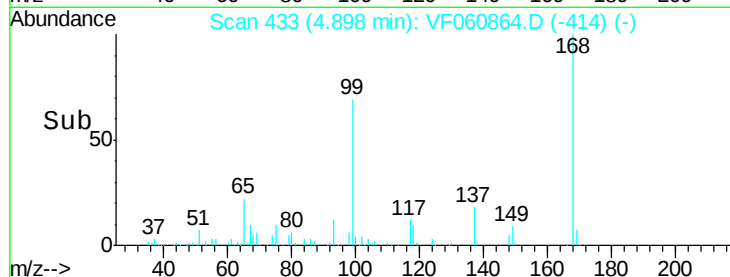
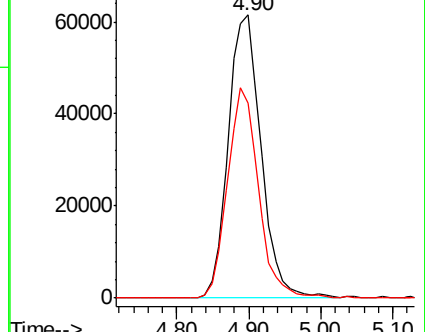
168 100

99 68.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 1.28 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.02 min

Lab File: VF060864.D

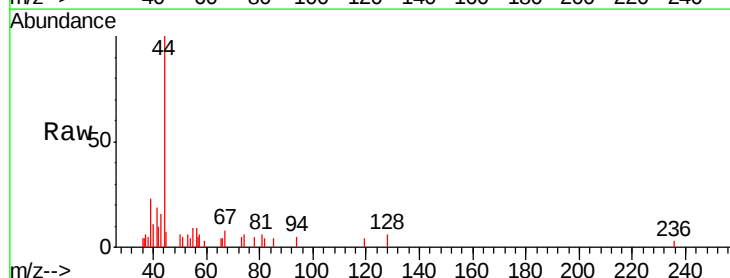
Acq: 28 Nov 2018 19:02

Tgt Ion: 59 Resp: 120

Ion Ratio Lower Upper

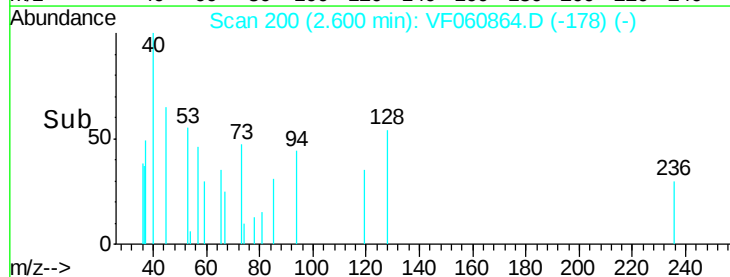
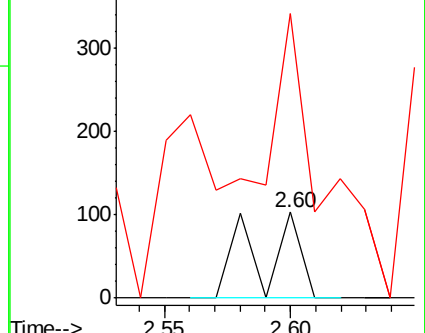
59 100

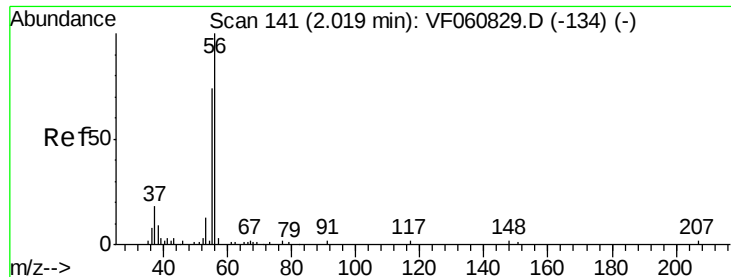
57 334.3 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 4.46 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.03 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

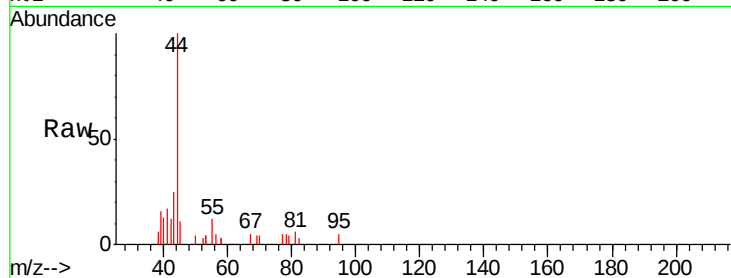
2CVE CHECK

Tgt Ion: 56 Resp: 398

Ion Ratio Lower Upper

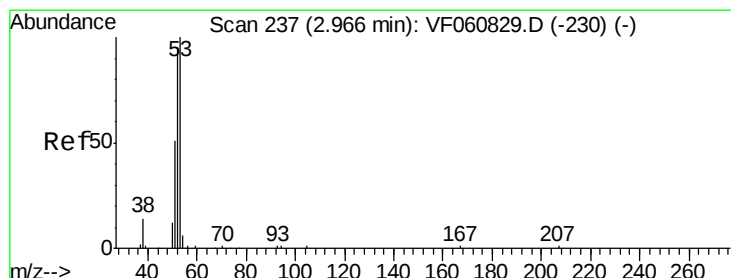
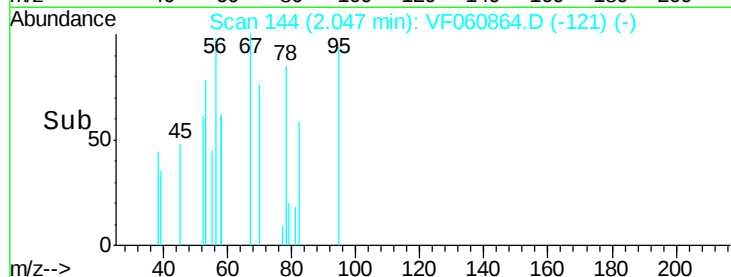
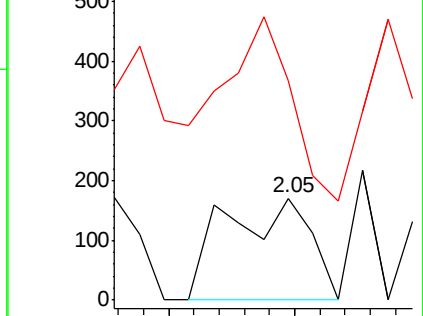
56 100

55 215.2 61.2 91.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 2.37 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

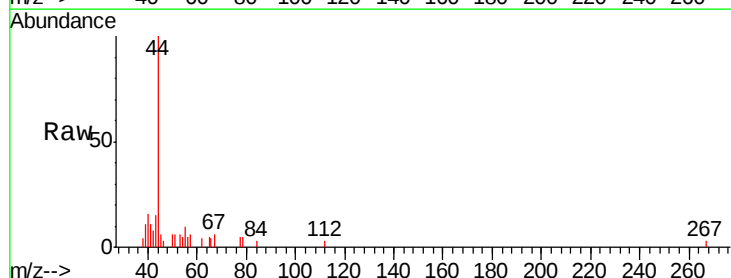
Tgt Ion: 53 Resp: 499

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

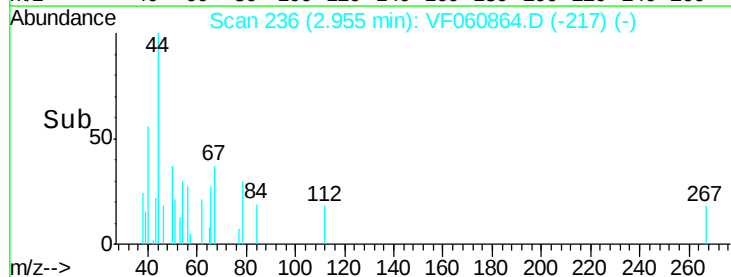
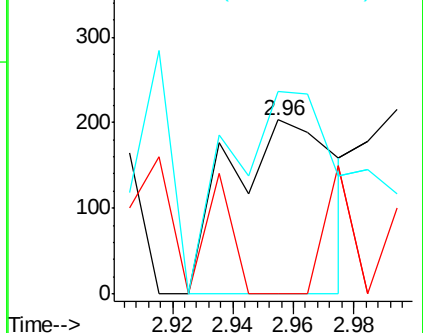
51 116.7 40.7 61.1#

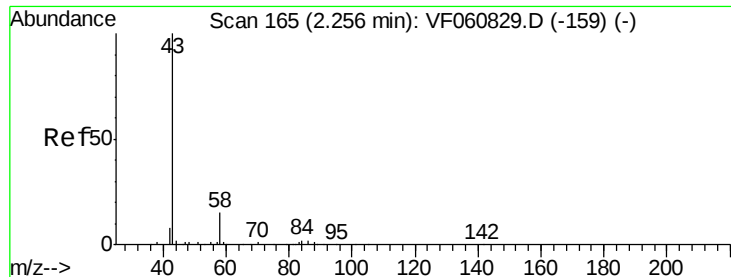


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 3.78 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

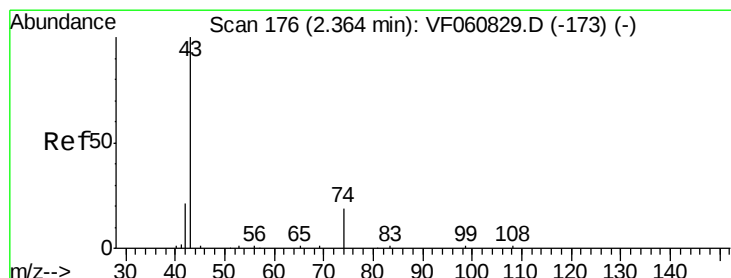
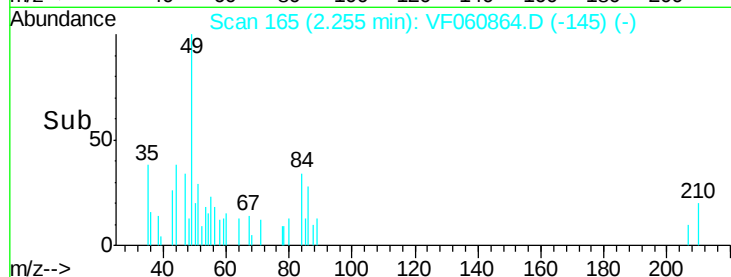
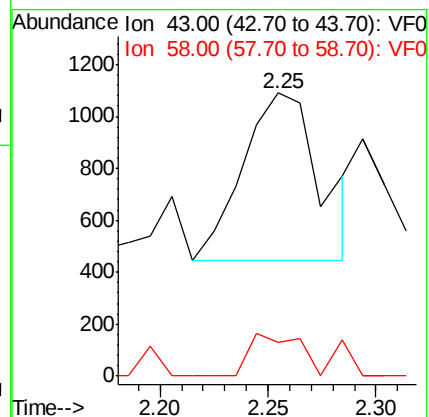
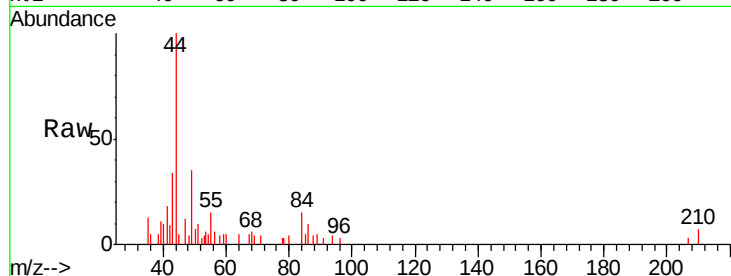
2CVE CHECK

Tgt Ion: 43 Resp: 1599

Ion Ratio Lower Upper

43 100

58 11.9 11.4 17.2



#18

Methyl Acetate

Concen: 3.08 ug/l

RT: 2.40 min Scan# 180

Delta R.T. 0.04 min

Lab File: VF060864.D

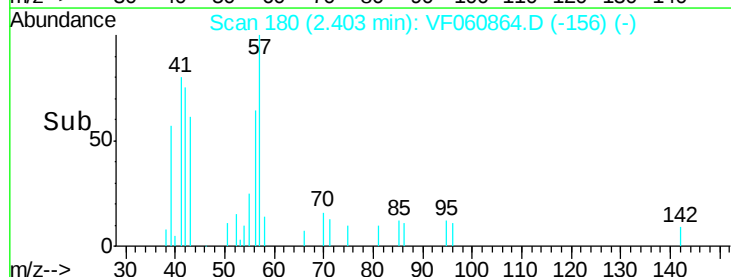
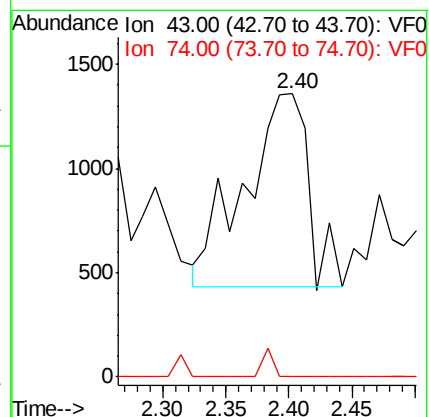
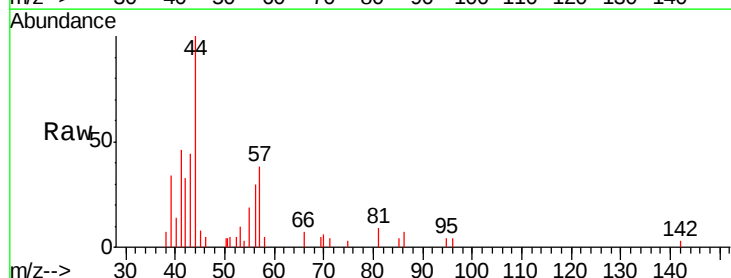
Acq: 28 Nov 2018 19:02

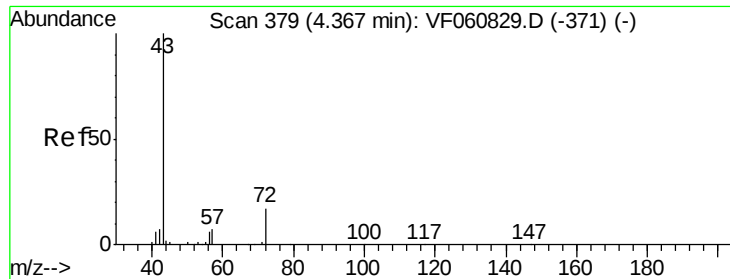
Tgt Ion: 43 Resp: 3289

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#





#25

2-Butanone

Concen: 1.10 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

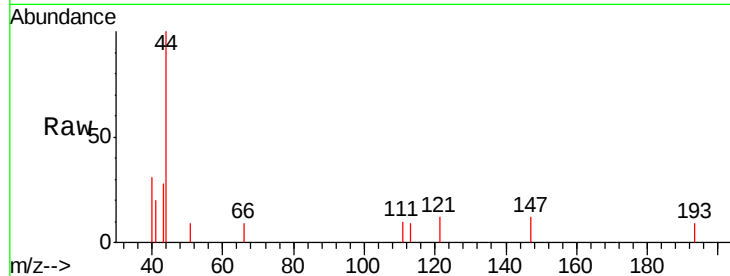
2CVE CHECK

Tgt Ion: 43 Resp: 804

Ion Ratio Lower Upper

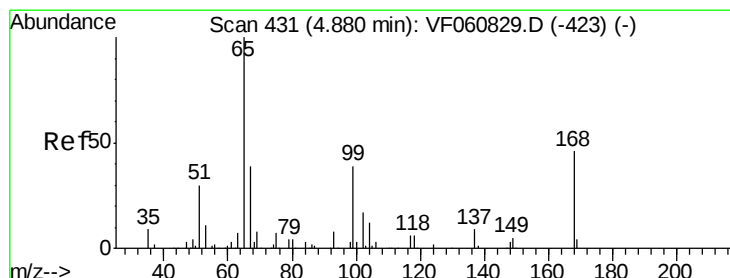
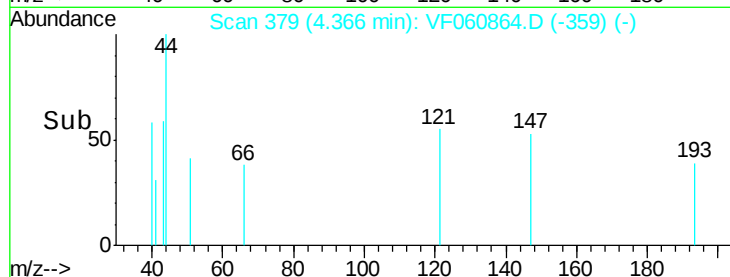
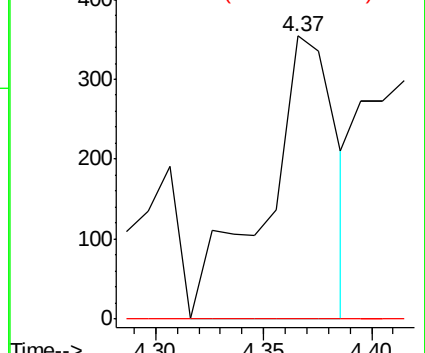
43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 57.97 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF060864.D

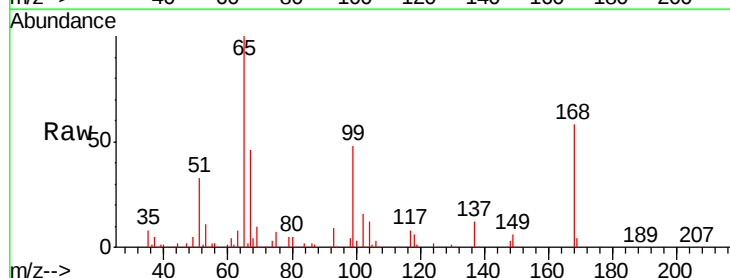
Acq: 28 Nov 2018 19:02

Tgt Ion: 65 Resp: 133077

Ion Ratio Lower Upper

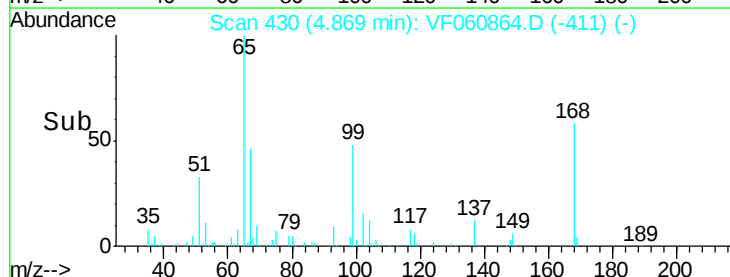
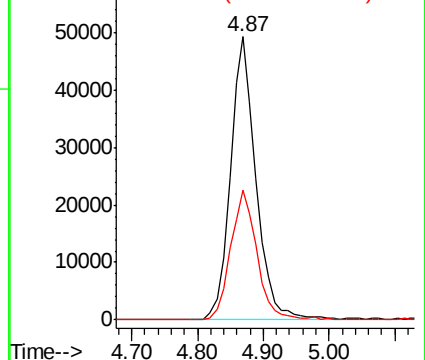
65 100

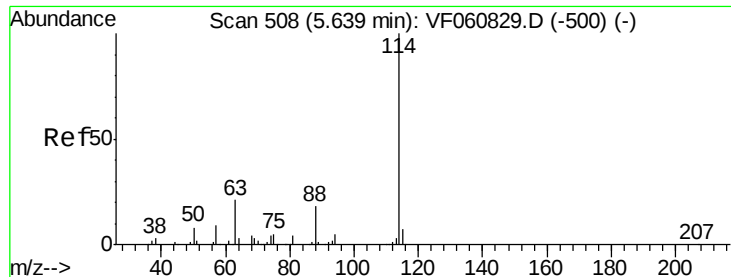
67 45.9 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

2CVE CHECK

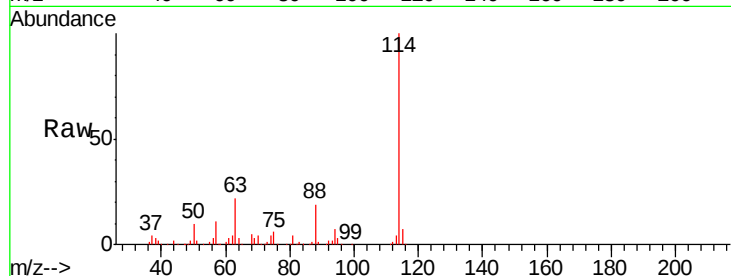
Tgt Ion:114 Resp: 326791

Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.6

88 19.4 0.0 36.6



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

5.62

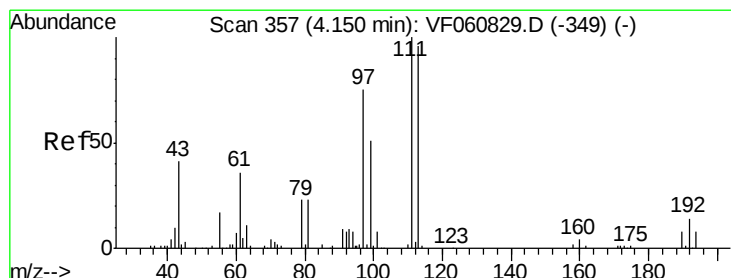
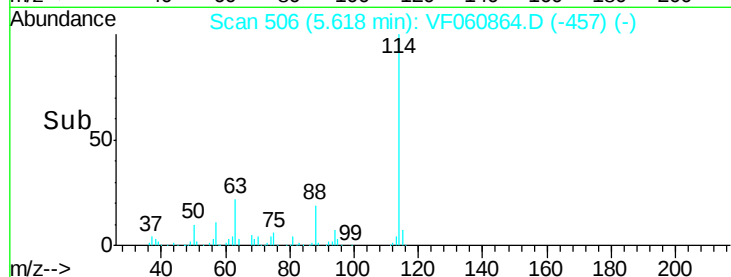
150000

100000

50000

0

Time--> 5.50 5.60 5.70



#35

Dibromofluoromethane

Concen: 56.38 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

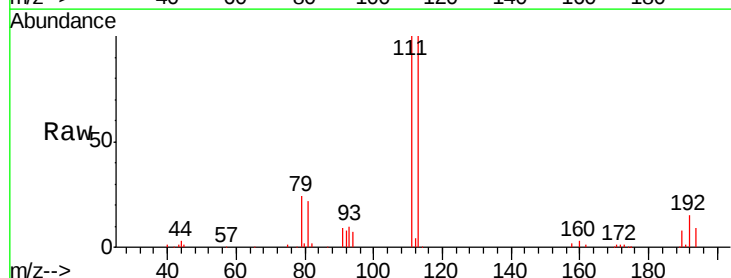
Tgt Ion:113 Resp: 146173

Ion Ratio Lower Upper

113 100

111 99.9 83.0 124.6

192 14.6 12.3 18.5



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

4.14

60000

50000

40000

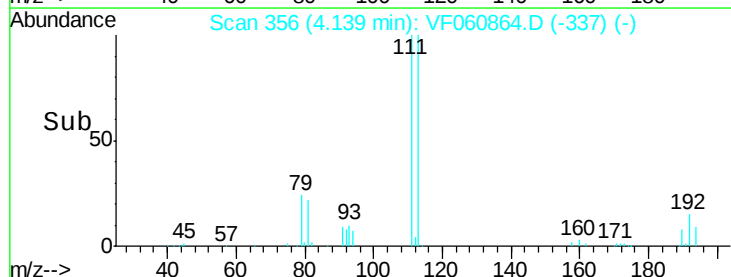
30000

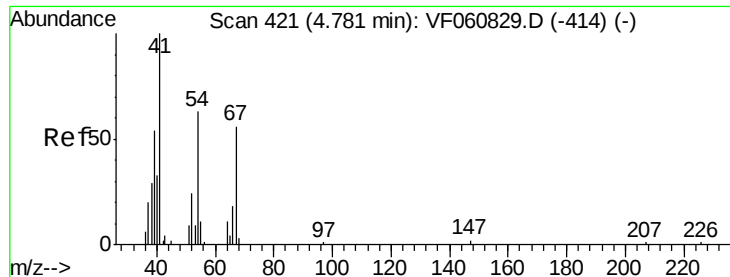
20000

10000

0

Time--> 4.00 4.10 4.20 4.30

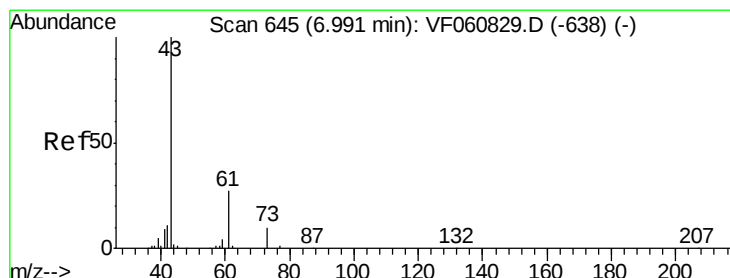
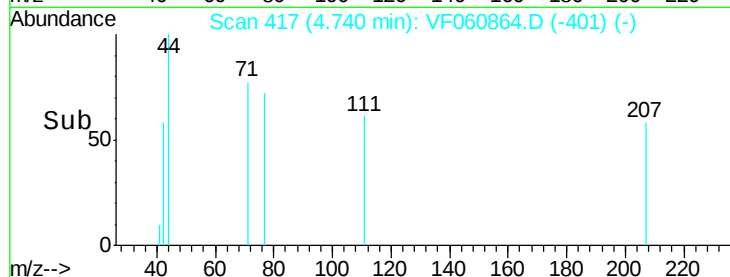
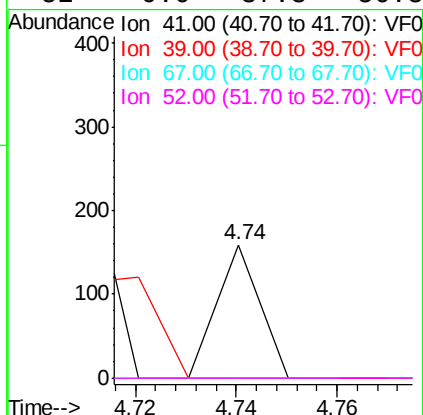
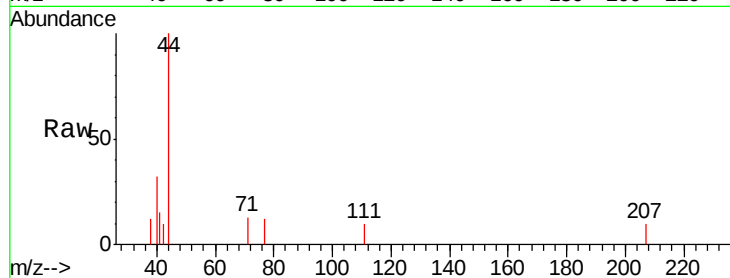




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

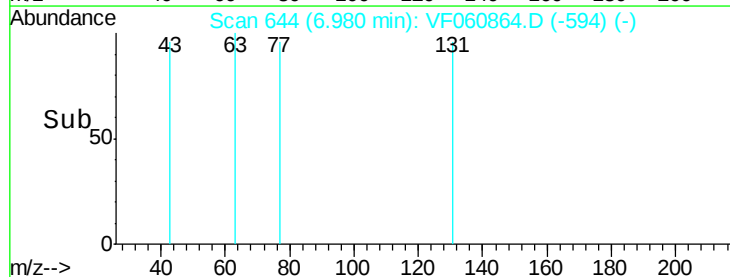
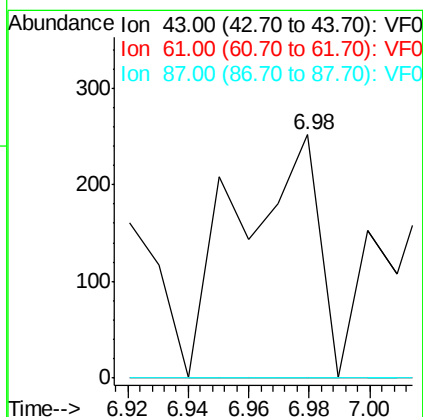
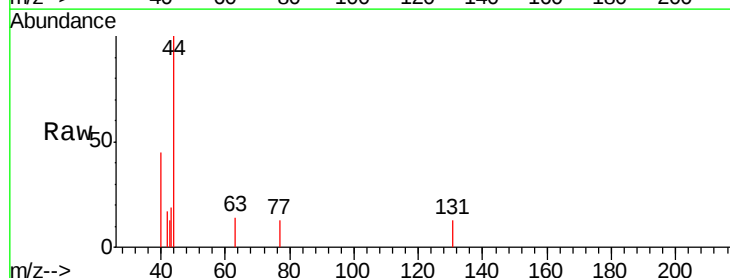
Instrument :
MSVOA_F
ClientSampleId :
2CVE CHECK

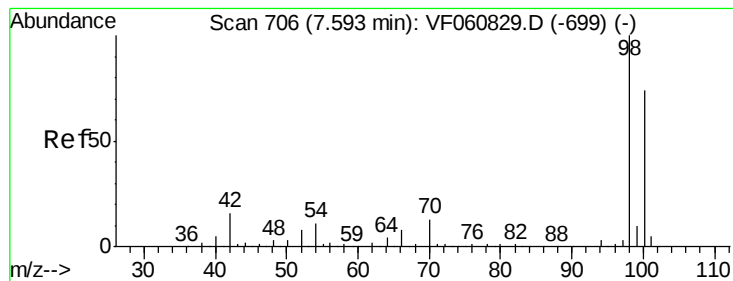
Tgt Ion:	41	Resp:	94
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.98 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF060864.D
Acq: 28 Nov 2018 19:02

Tgt Ion:	43	Resp:	464
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#





#50

Toluene-d8

Concen: 50.29 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

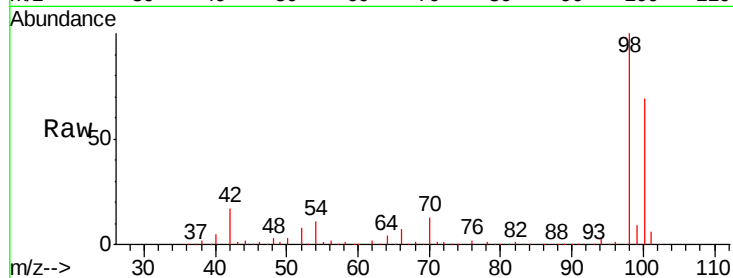
2CVE CHECK

Tgt Ion: 98 Resp: 384020

Ion Ratio Lower Upper

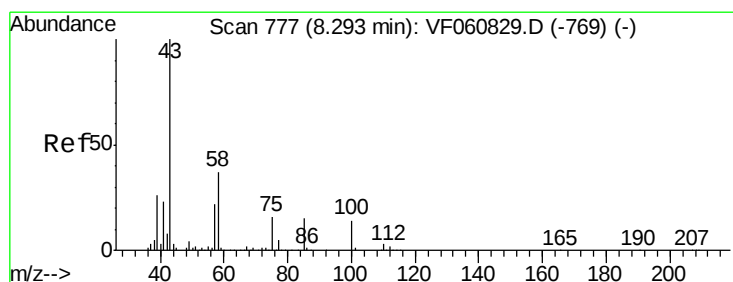
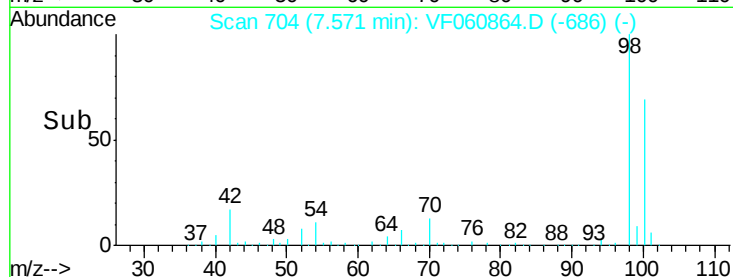
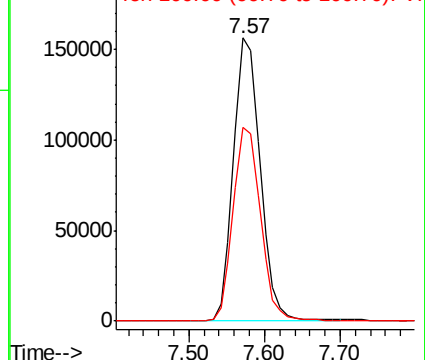
98 100

100 68.7 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 1.68 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF060864.D

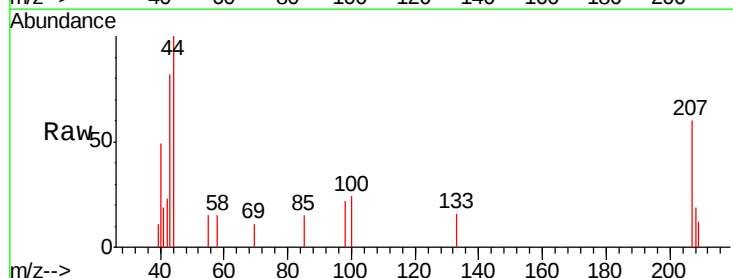
Acq: 28 Nov 2018 19:02

Tgt Ion: 43 Resp: 2279

Ion Ratio Lower Upper

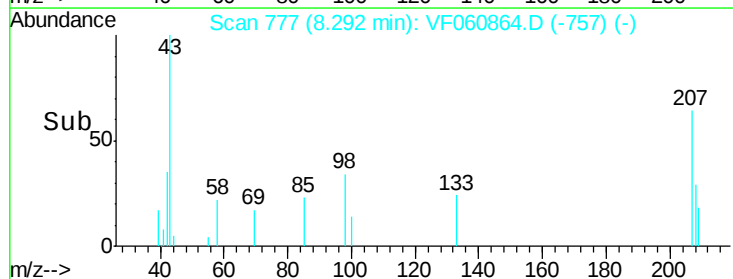
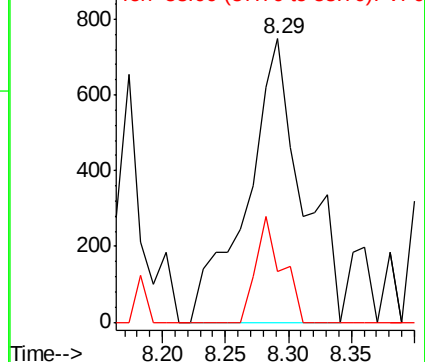
43 100

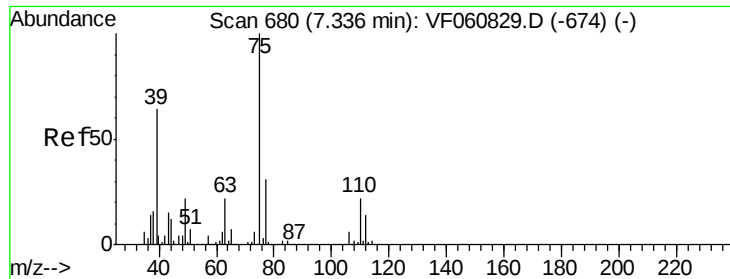
58 17.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

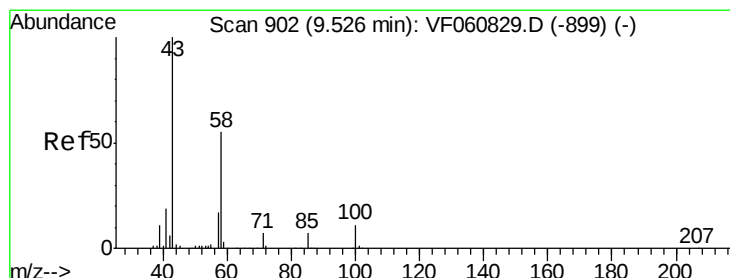
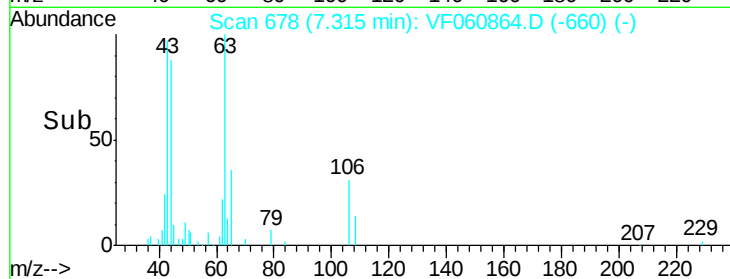
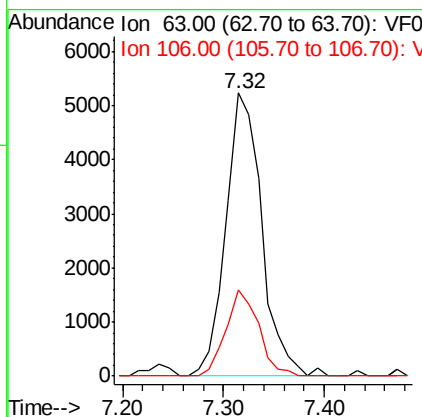
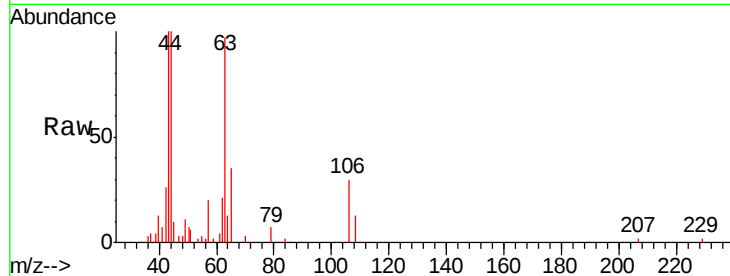




#58
 2-Chloroethyl Vinyl ether
 Concen: 69.61 ug/l
 RT: 7.32 min Scan# 678
 Delta R.T. -0.02 min
 Lab File: VF060864.D
 Acq: 28 Nov 2018 19:02

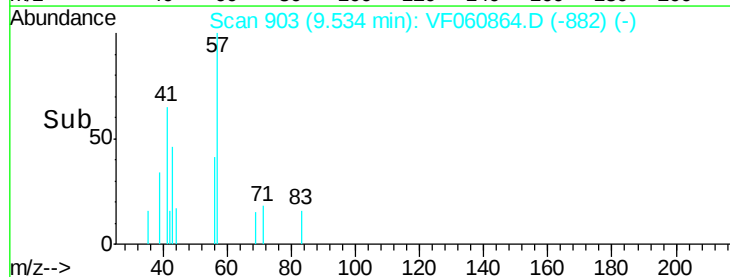
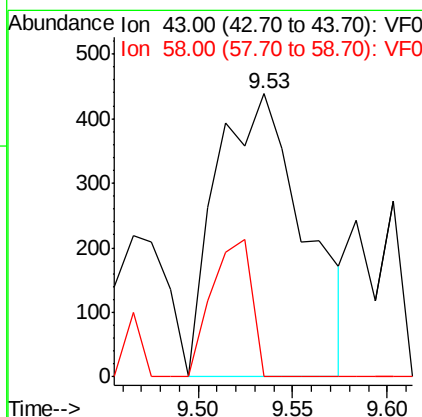
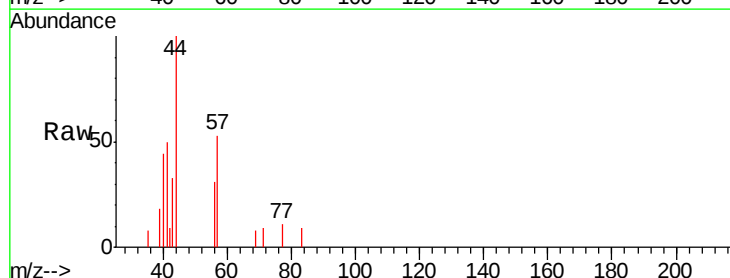
Instrument :
 MSVOA_F
 ClientSampleId :
 2CVE CHECK

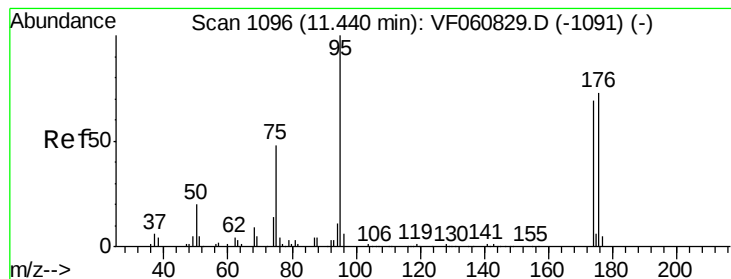
Tgt Ion: 63 Resp: 12964
 Ion Ratio Lower Upper
 63 100
 106 30.5 23.0 34.6



#59
 2-Hexanone
 Concen: 1.49 ug/l
 RT: 9.53 min Scan# 903
 Delta R.T. 0.01 min
 Lab File: VF060864.D
 Acq: 28 Nov 2018 19:02

Tgt Ion: 43 Resp: 1417
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.6 76.6#





#62

4-Bromofluorobenzene

Concen: 55.20 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

2CVE CHECK

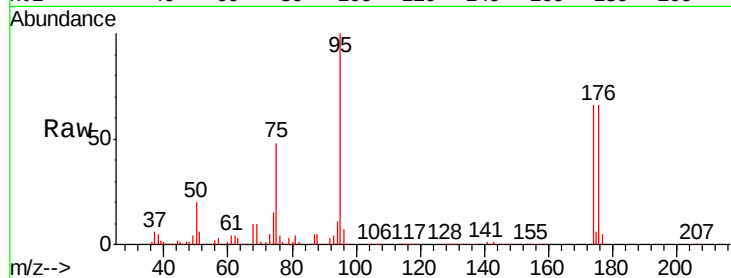
Tgt Ion: 95 Resp: 191587

Ion Ratio Lower Upper

95 100

174 66.3 0.0 138.2

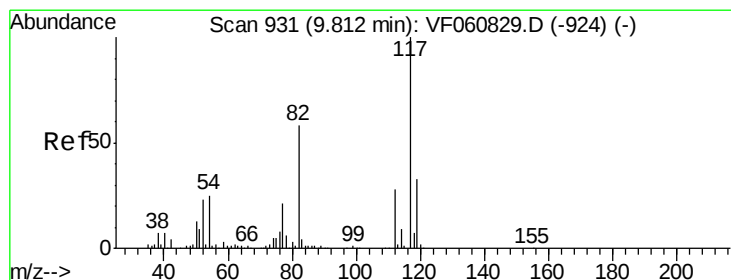
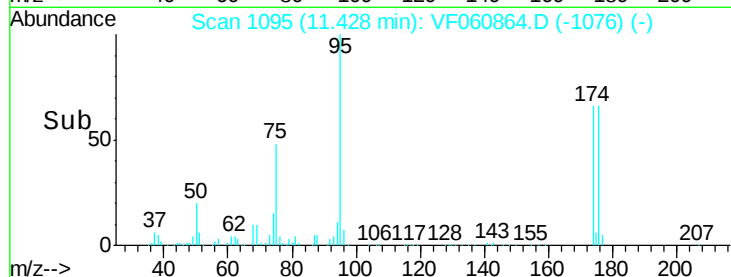
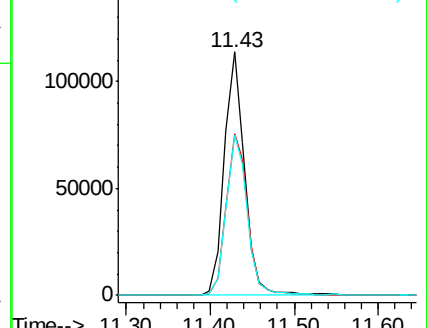
176 65.8 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

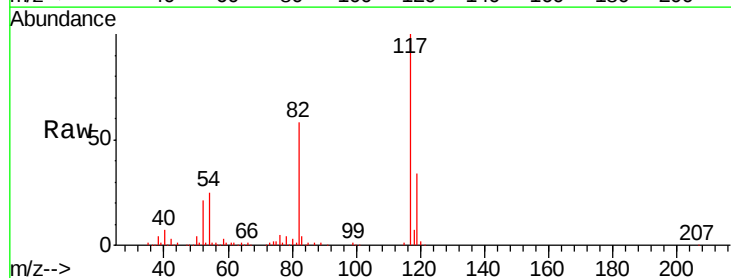
Tgt Ion: 117 Resp: 323575

Ion Ratio Lower Upper

117 100

82 58.1 46.6 69.8

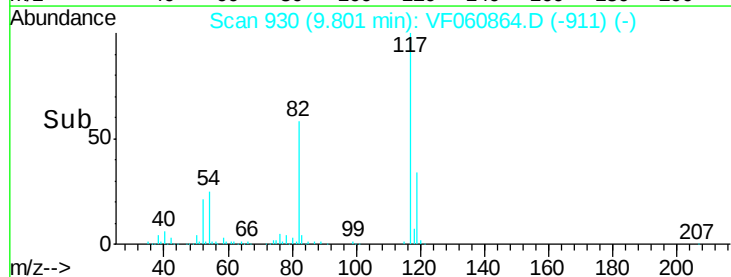
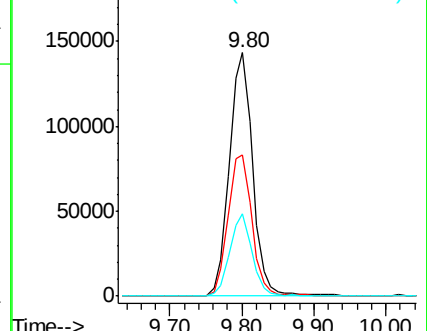
119 33.6 26.4 39.6

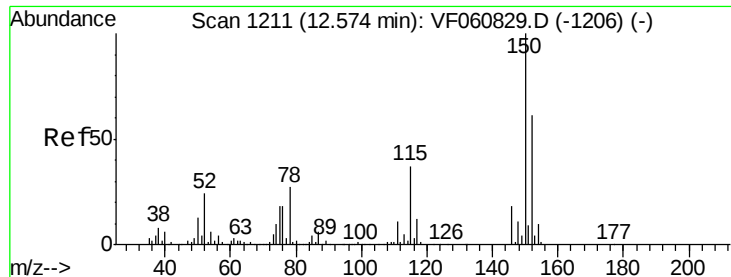


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

Instrument :

MSVOA_F

ClientSampleId :

2CVE CHECK

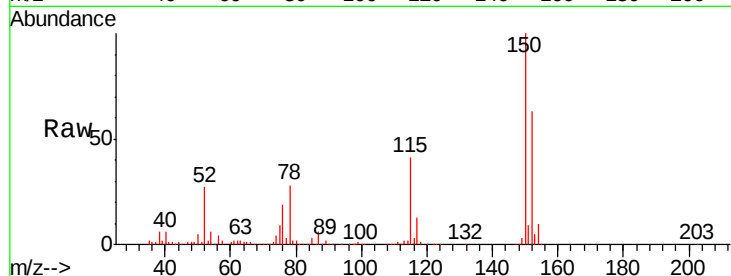
Tgt Ion:152 Resp: 178602

Ion Ratio Lower Upper

152 100

115 65.9 30.1 90.5

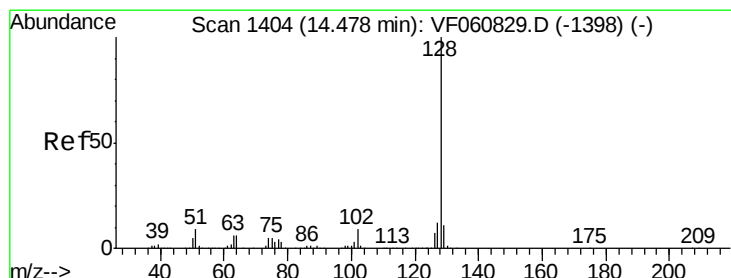
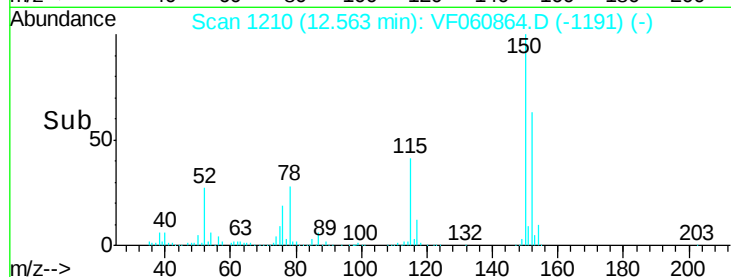
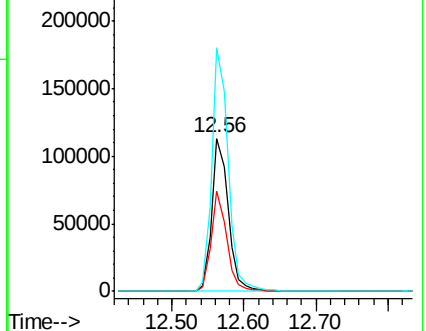
150 159.2 0.0 327.6



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



#95

Naphthalene

Concen: Below Cal

RT: 14.47 min Scan# 1403

Delta R.T. -0.01 min

Lab File: VF060864.D

Acq: 28 Nov 2018 19:02

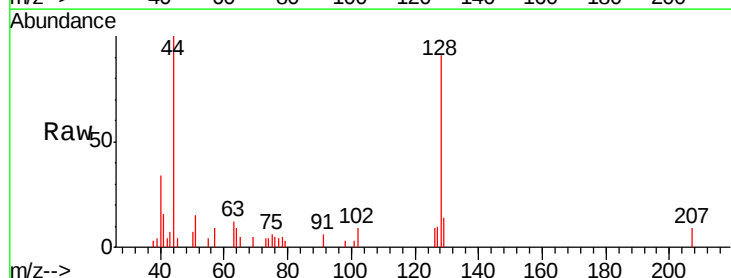
Tgt Ion:128 Resp: 4811

Ion Ratio Lower Upper

128 100

127 11.3 9.9 14.9

129 15.1 9.1 13.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

