

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051769.D
 Acq On : 9 Oct 2018 23:54
 Operator : MD\SY
 Sample : PB113645ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#09

Quant Time: Oct 10 03:37:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

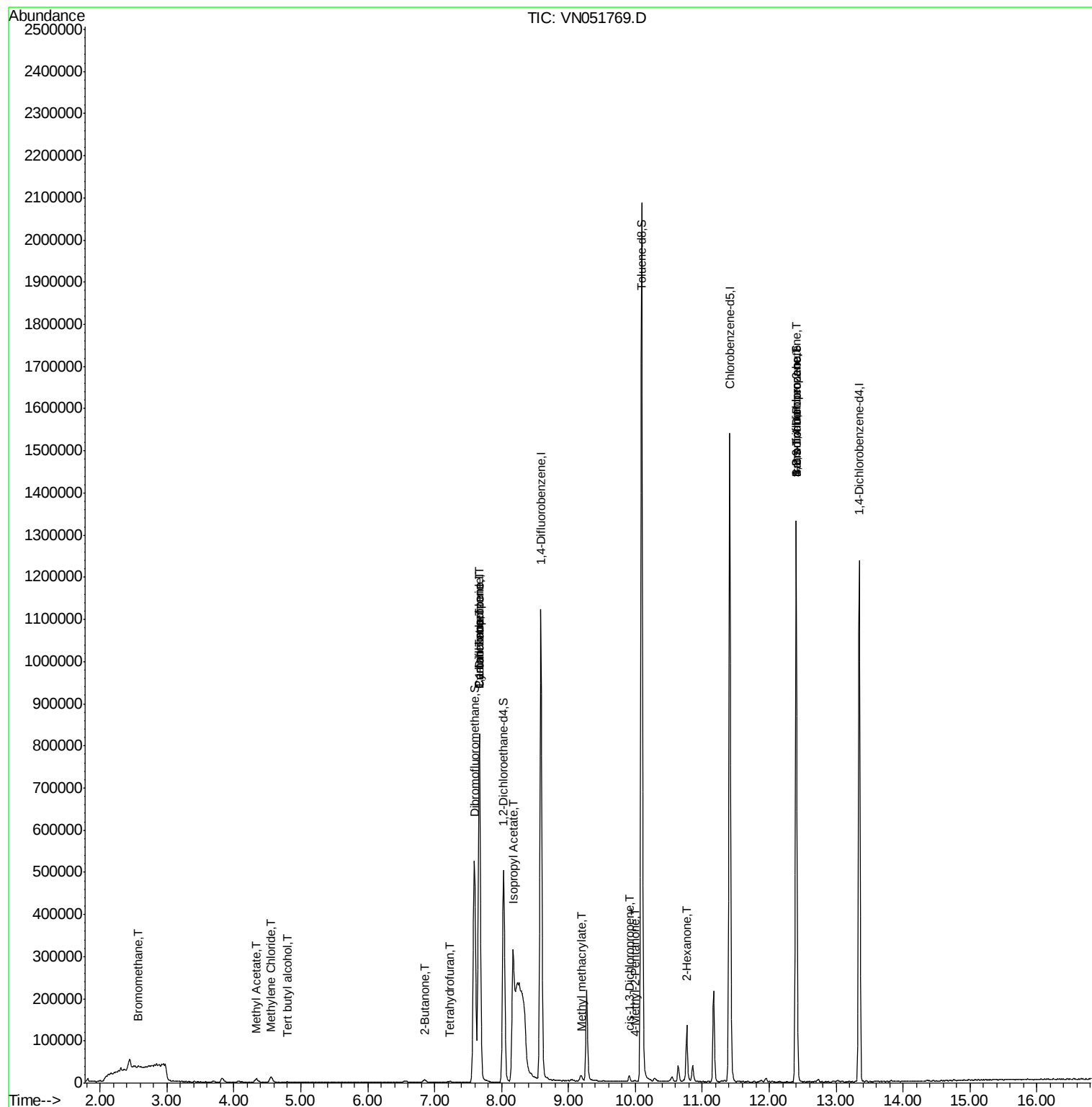
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	722774	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1048618	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	932462	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	345971	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	427047	44.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.46%	
35) Dibromofluoromethane	7.59	113	391824	48.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.66%	
50) Toluene-d8	10.09	98	1514814	50.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	12.40	95	419960	39.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.46%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	2021	0.202	ug/l	96
7) Trichlorofluoromethane	2.92	101	155	Below Cal	#	18
11) Tert butyl alcohol	4.80	59	652	1.005	ug/l #	73
13) Acrolein	3.62	56	83	Below Cal	#	1
16) Acetone	3.82	43	15192	Below Cal		98
18) Methyl Acetate	4.34	43	15927	3.022	ug/l	100
20) Methylene Chloride	4.55	84	8850	1.127	ug/l #	88
25) 2-Butanone	6.85	43	8513	3.088	ug/l	93
29) Tetrahydrofuran	7.21	42	764	0.452	ug/l #	55
31) Cyclohexane	7.67	56	13688	1.056	ug/l #	26
36) 1,1-Dichloropropene	7.67	75	45804	4.179	ug/l #	50
38) Carbon Tetrachloride	7.67	117	64530	4.906	ug/l #	16
41) Methacrylonitrile	7.20	41	514	Below Cal	#	28
43) Isopropyl Acetate	8.17	43	414592	34.786	ug/l #	88
48) Methyl methacrylate	9.18	41	7720	1.418	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	2040	0.338	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	3037	0.225	ug/l #	63
59) 2-Hexanone	10.77	43	19944	4.863	ug/l #	60
71) Bromoform	12.40	173	3505	0.510	ug/l #	1
74) N-amyl acetate	12.06	43	225	Below Cal	#	26
75) 1,1,2,2-Tetrachloroethane	12.58	83	61	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	222377	51.885	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	222377	118.152	ug/l #	14

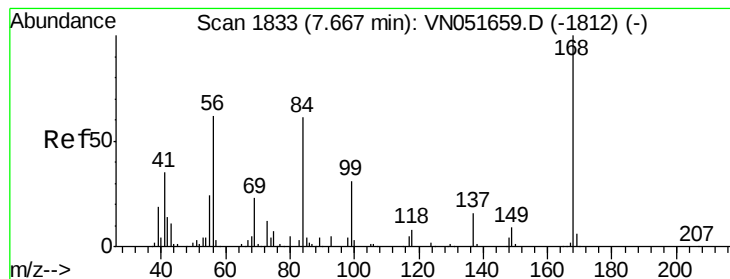
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 09 06:03:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

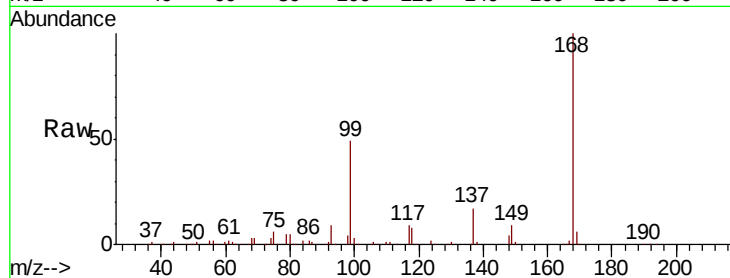
PB113645ZHE#09

Tot Ion:168 Resp: 722774

Ion Ratio Lower Upper

168 100

99 49.0 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

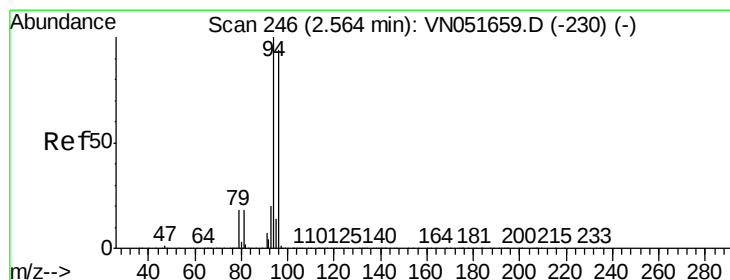
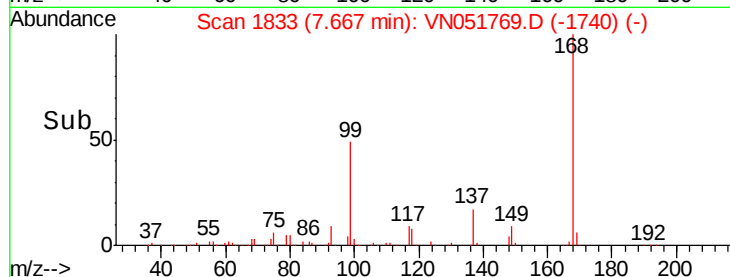
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.202 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051769.D

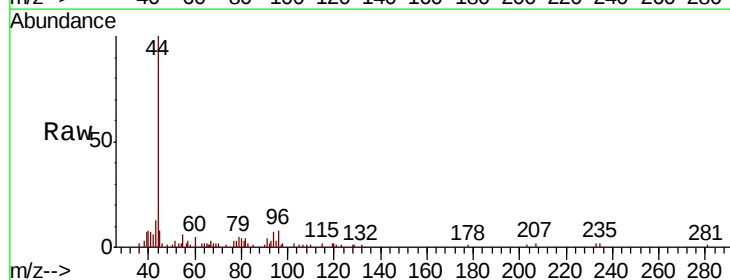
Acq: 9 Oct 2018 23:54

Tgt Ion: 94 Resp: 2021

Ion Ratio Lower Upper

94 100

96 97.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

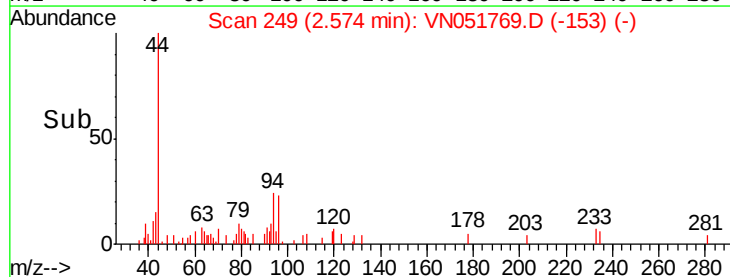
2.57

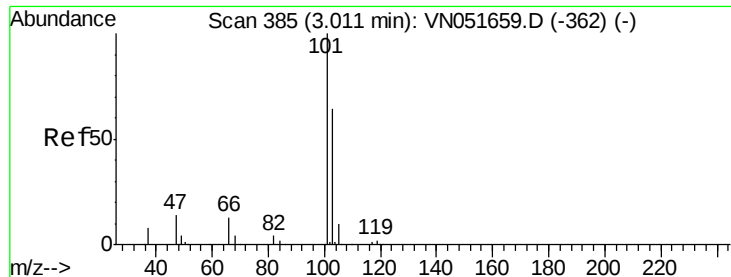
1000

500

0

Time-->



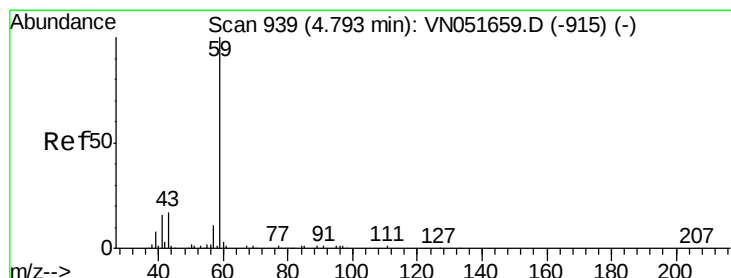
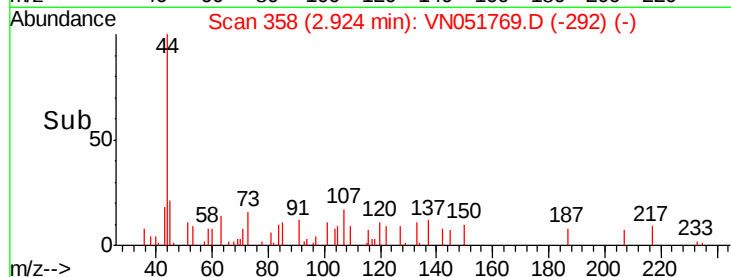
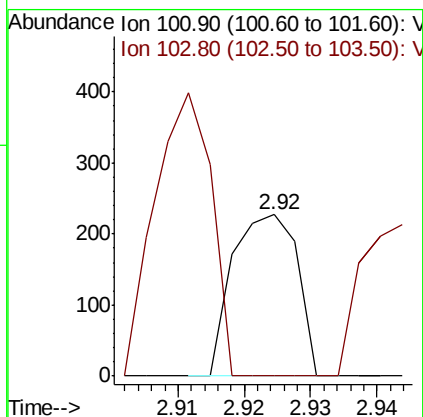
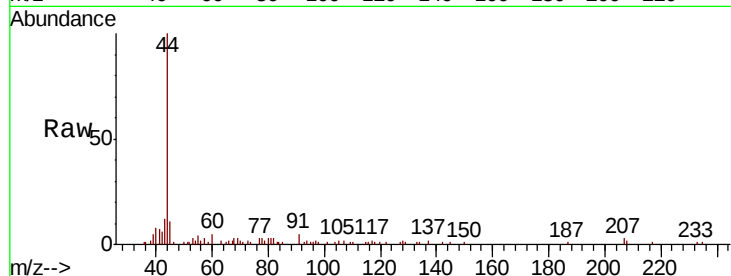


#7

Trichlorofluoromethane
Concen: Below Cal
RT: 2.92 min Scan# 358
Delta R.T. -0.09 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#09

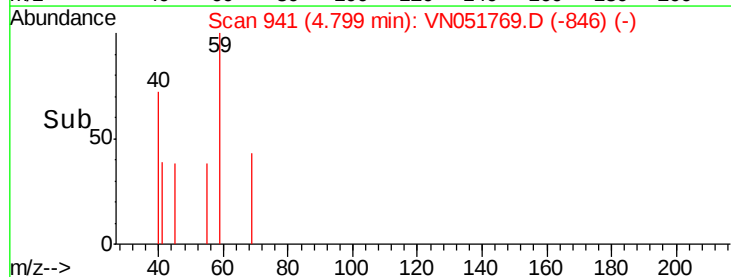
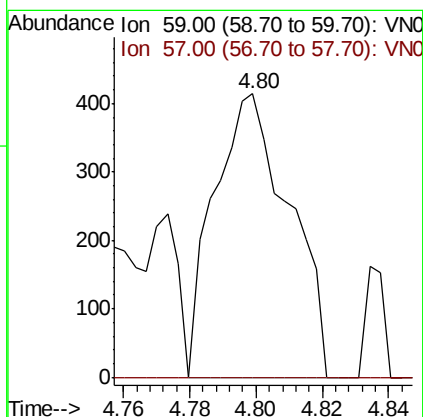
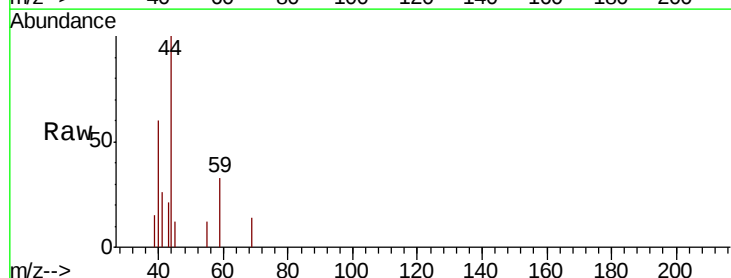
Tot Ion:101 Resp: 155
Ion Ratio Lower Upper
101 100
103 0.0 51.1 76.7#

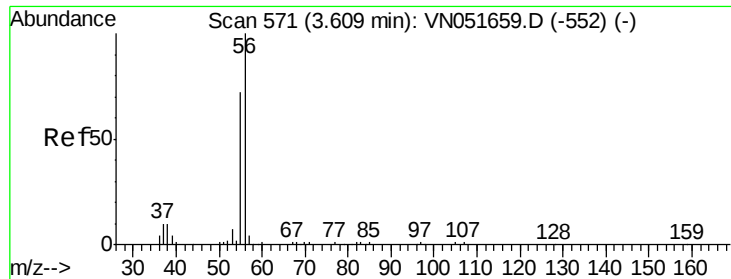


#11

Tert butyl alcohol
Concen: 1.005 ug/l
RT: 4.80 min Scan# 941
Delta R.T. 0.01 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

Tgt Ion: 59 Resp: 652
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

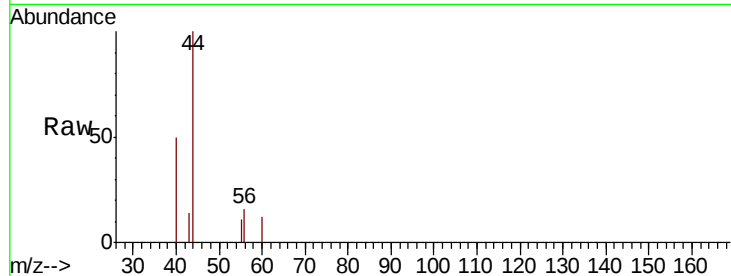
PB113645ZHE#09

Tot Ion: 56 Resp: 83

Ion Ratio Lower Upper

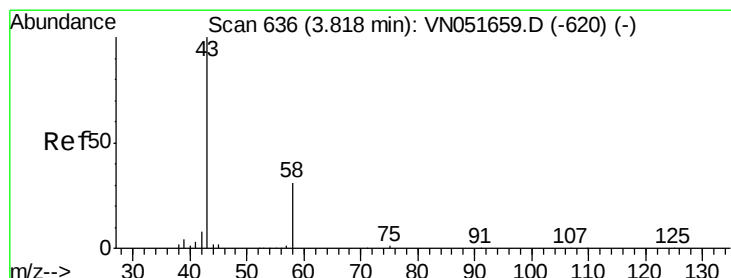
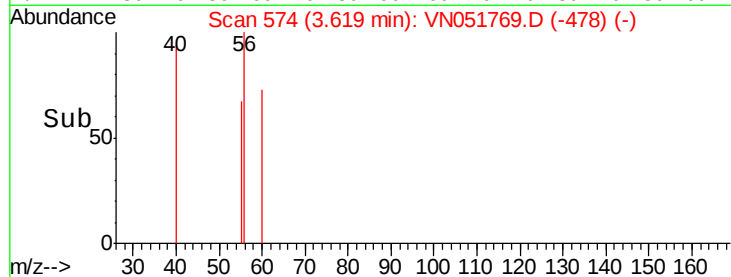
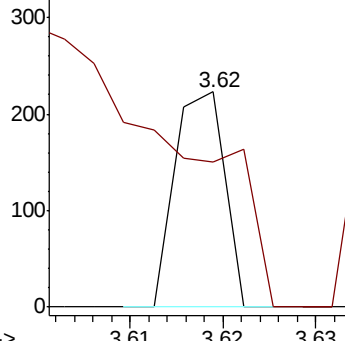
56 100

55 244.6 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051769.D

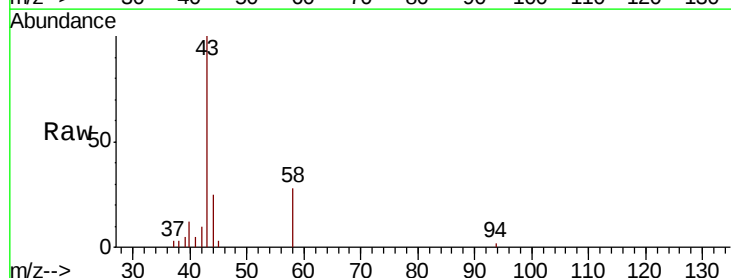
Acq: 9 Oct 2018 23:54

Tgt Ion: 43 Resp: 15192

Ion Ratio Lower Upper

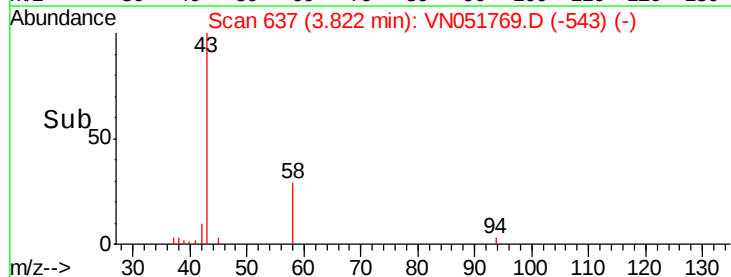
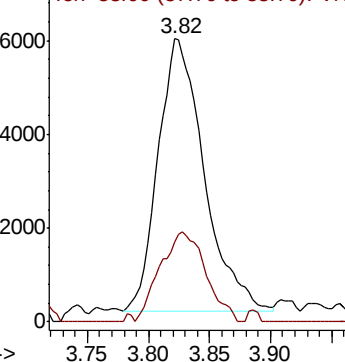
43 100

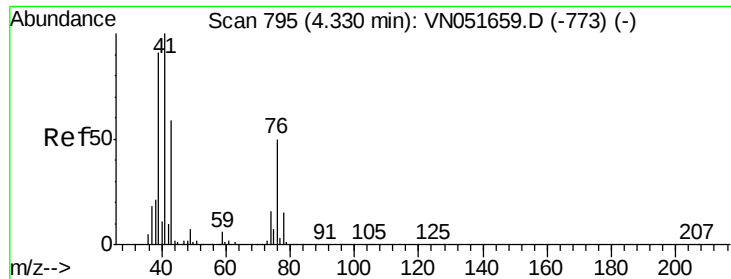
58 29.4 24.3 36.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

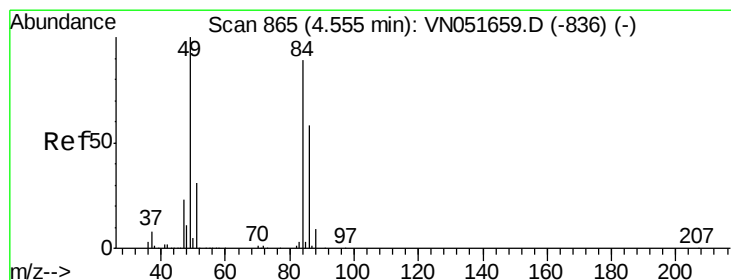
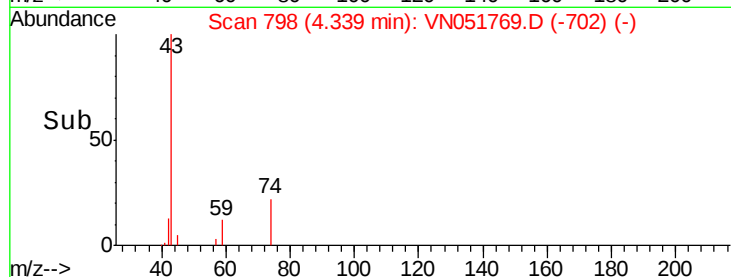
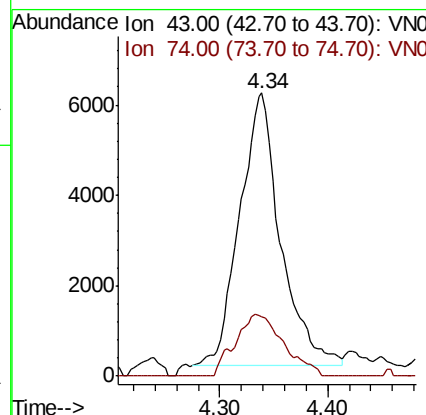
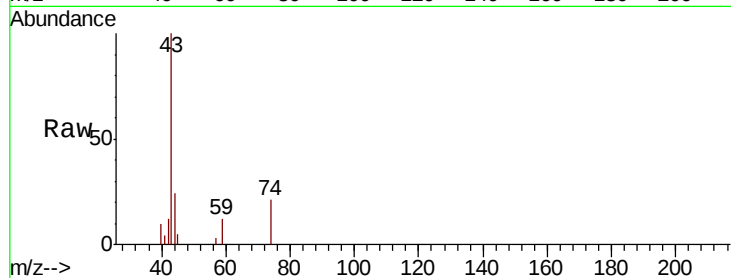




#18
Methvl Acetate
Concen: 3.022 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

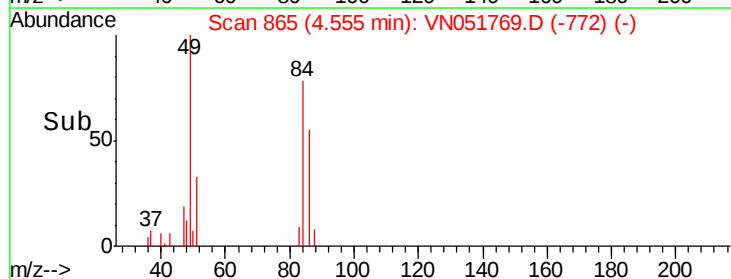
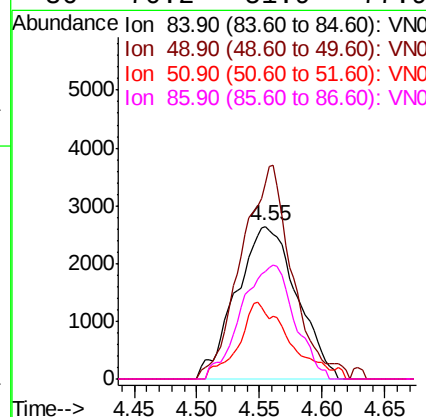
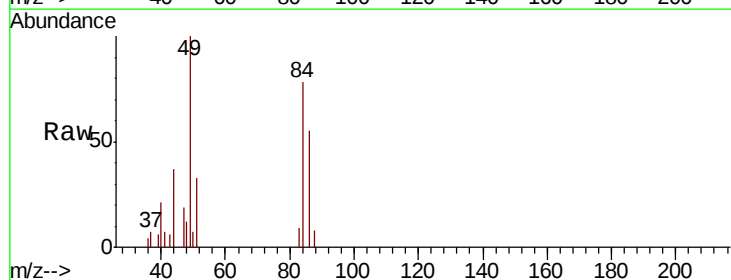
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#09

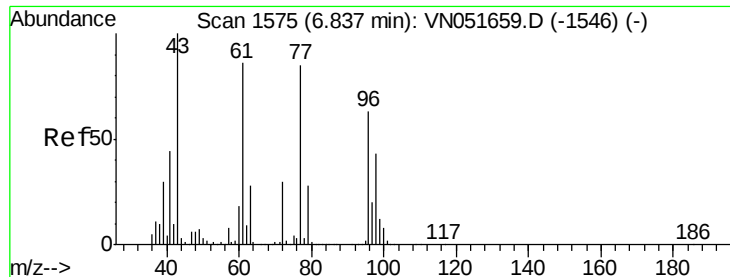
Tot Ion: 43 Resp: 15927
Ion Ratio Lower Upper
43 100
74 26.8 21.5 32.3



#20
Methylene Chloride
Concen: 1.127 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

Tgt Ion: 84 Resp: 8850
Ion Ratio Lower Upper
84 100
49 127.7 89.5 134.3
51 42.7 27.4 41.0#
86 70.2 51.9 77.9

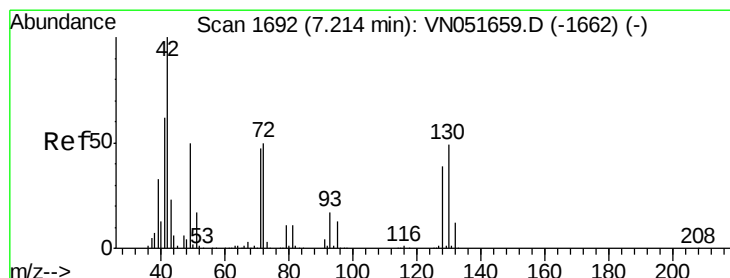
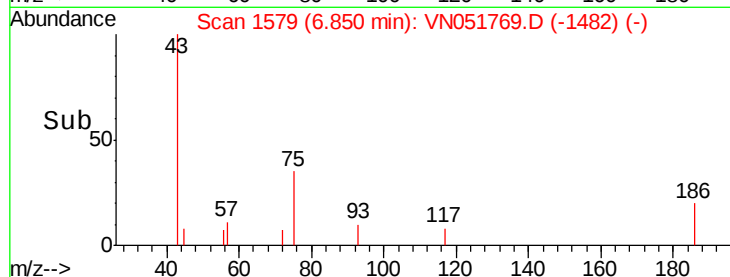
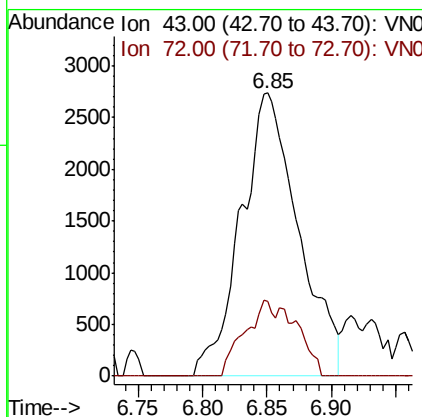
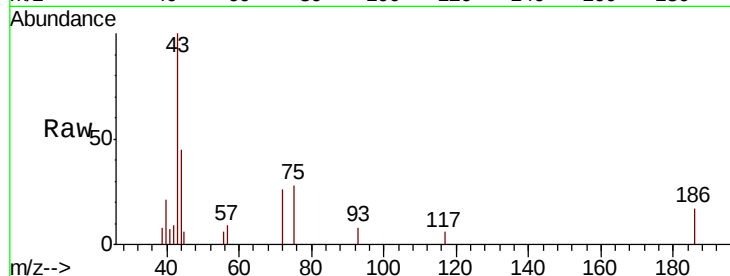




#25
2-Butanone
Concen: 3.088 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

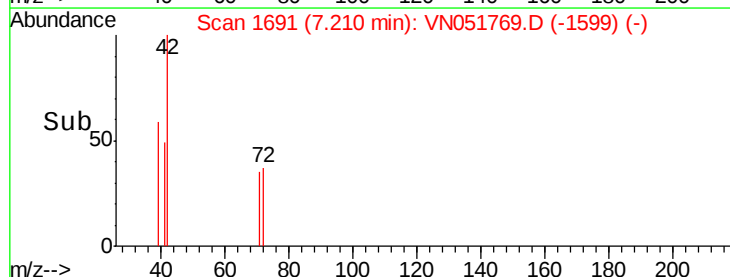
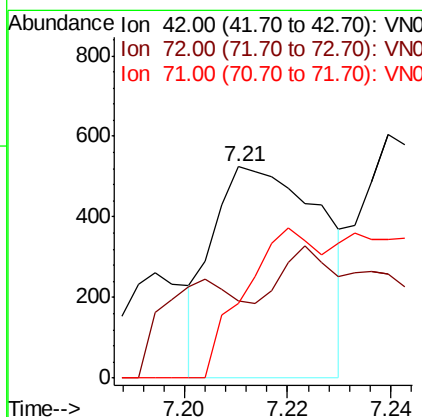
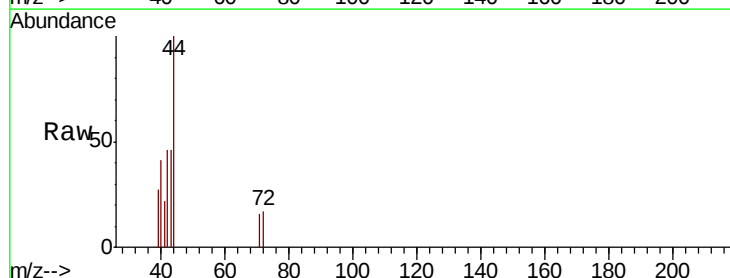
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#09

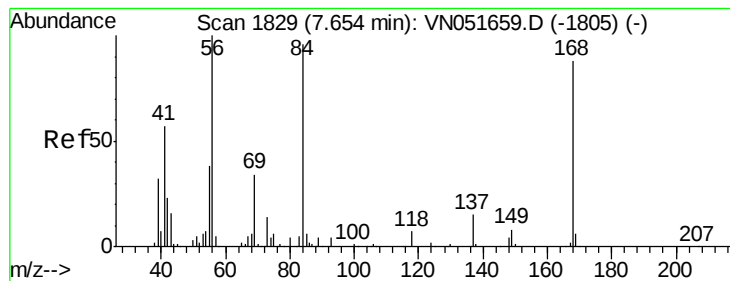
Tot Ion: 43 Resp: 8513
Ion Ratio Lower Upper
43 100
72 26.4 24.2 36.2



#29
Tetrahydrofuran
Concen: 0.452 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

Tgt Ion: 42 Resp: 764
Ion Ratio Lower Upper
42 100
72 36.0 40.1 60.1#
71 0.0 38.0 57.0#





#31

Cyclohexane

Concen: 1.056 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#09

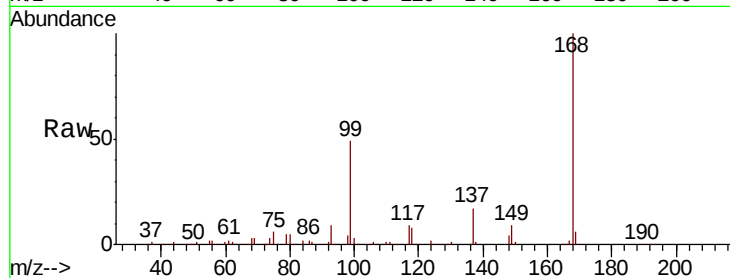
Tot Ion: 56 Resp: 13688

Ion Ratio Lower Upper

56 100

69 157.0 27.5 41.3#

84 119.1 76.7 115.1#

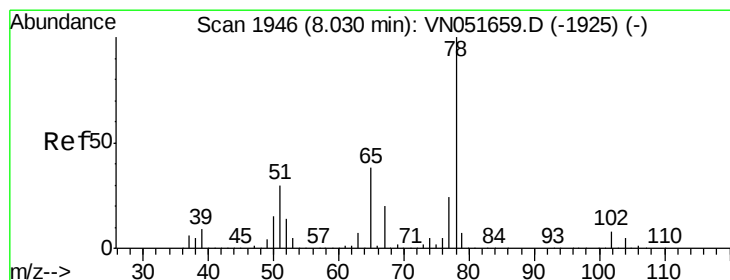
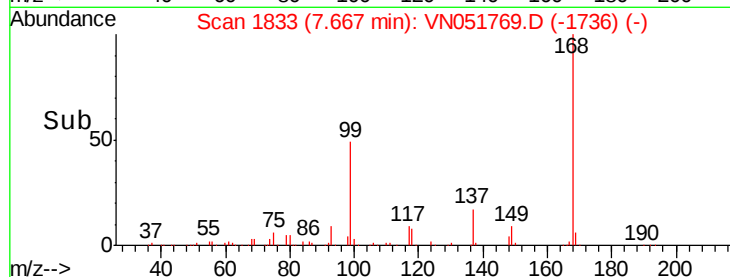
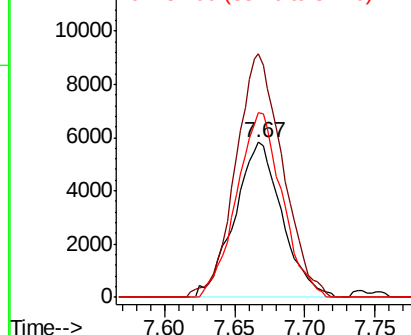


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051769.D

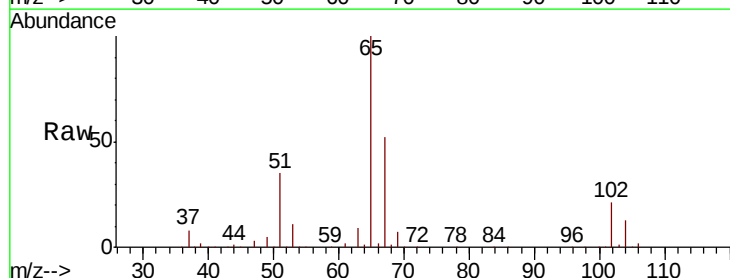
Acq: 9 Oct 2018 23:54

Tgt Ion: 65 Resp: 427047

Ion Ratio Lower Upper

65 100

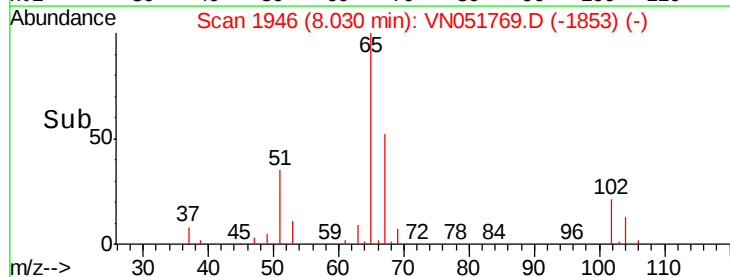
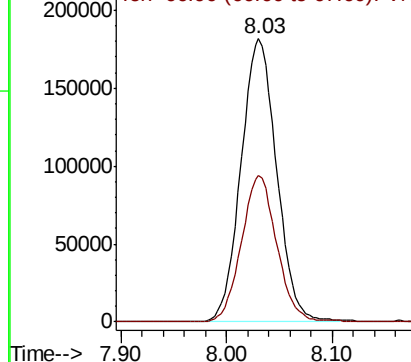
67 51.0 0.0 103.6

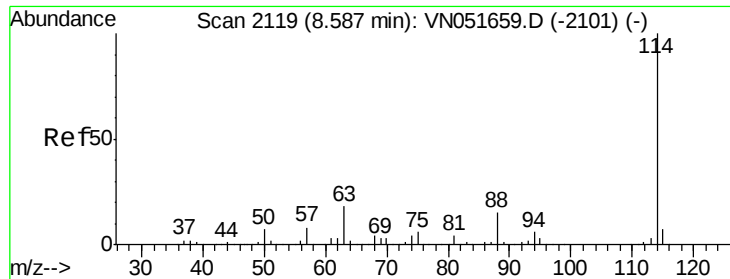


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

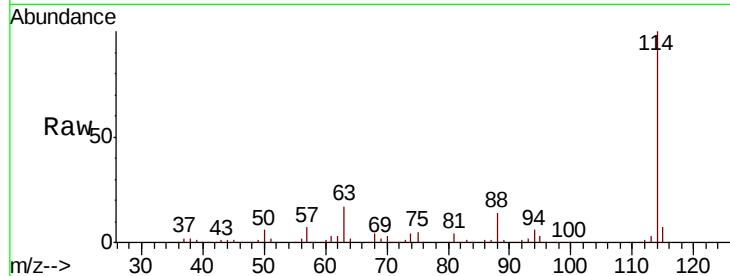




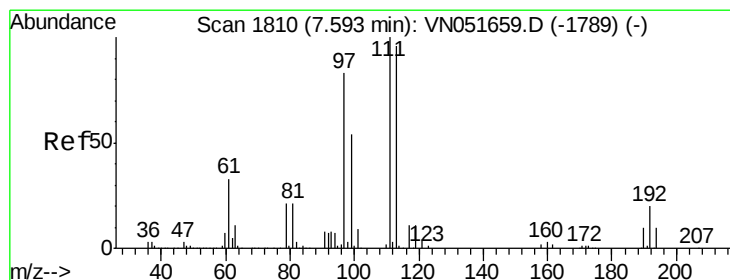
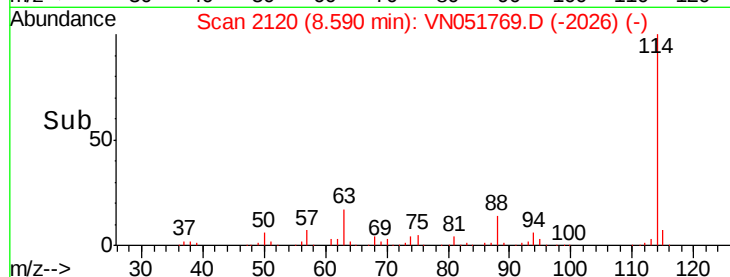
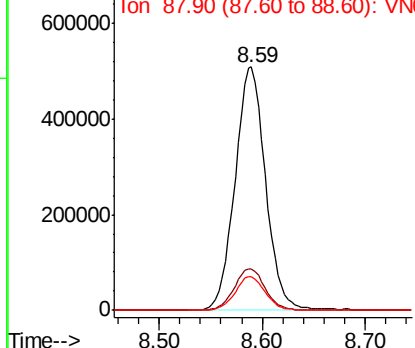
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2120
Delta R.T. 0.00 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#09

Tot Ion:114 Resp: 1048618
Ion Ratio Lower Upper
114 100
63 17.0 0.0 36.2
88 13.7 0.0 30.2

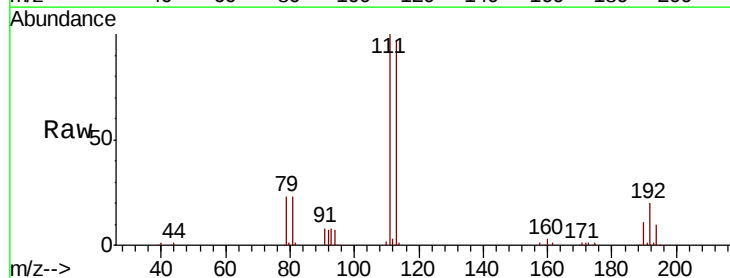


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

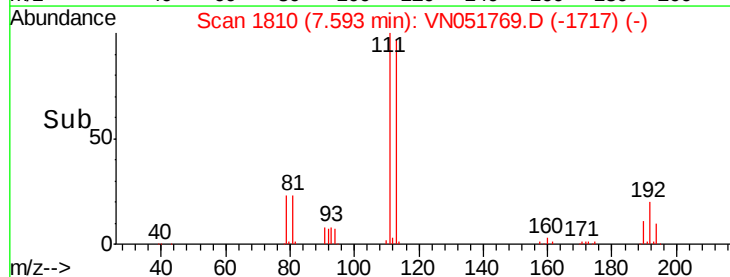
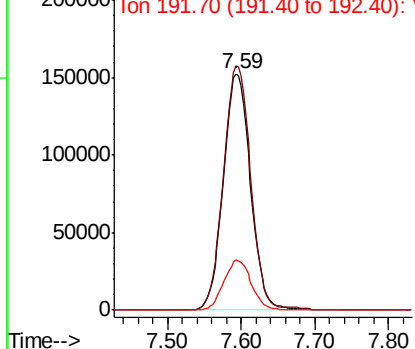


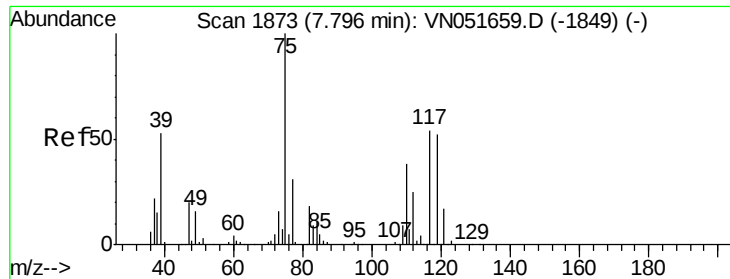
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051769.D
Acq: 9 Oct 2018 23:54

Tgt Ion:113 Resp: 391824
Ion Ratio Lower Upper
113 100
111 102.7 81.8 122.8
192 21.2 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

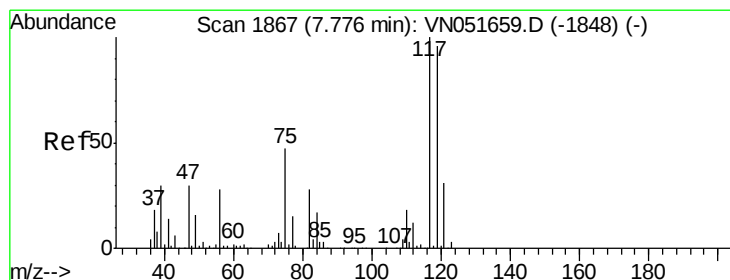
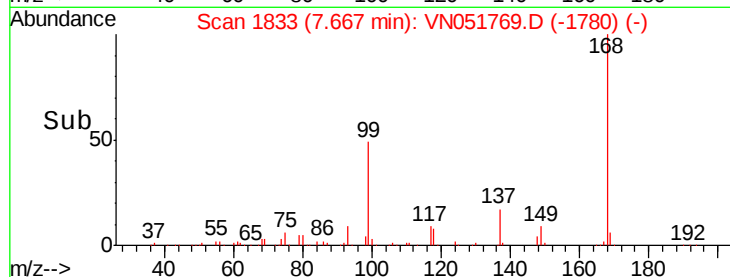
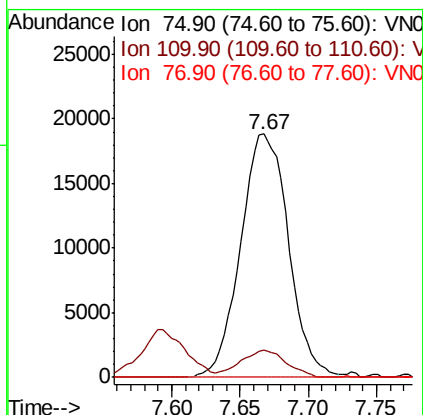
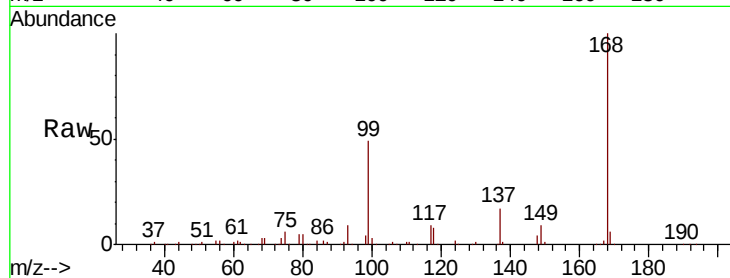




#36
 1,1-Dichloropropene
 Concen: 4.179 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051769.D
 Acq: 9 Oct 2018 23:54

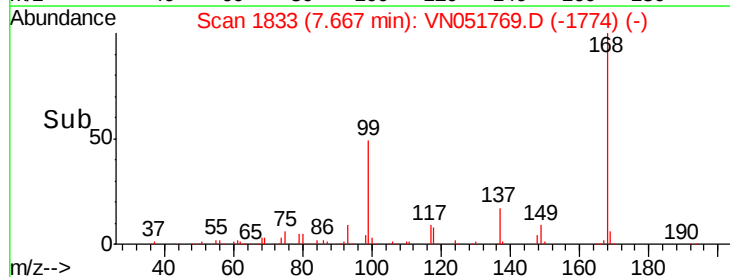
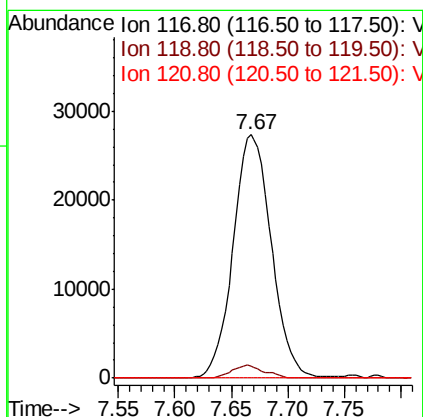
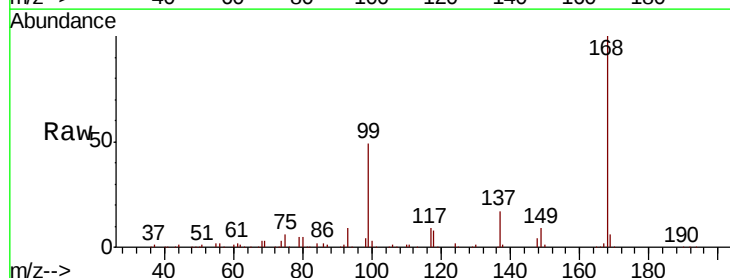
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#09

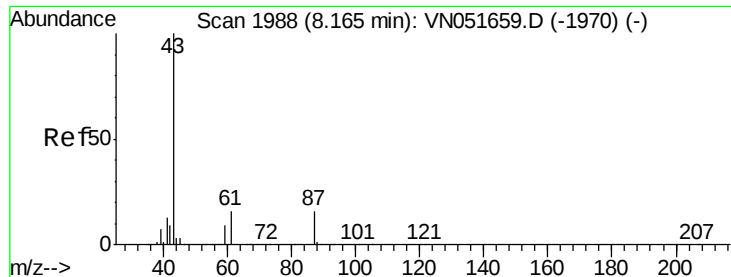
Tot Ion	75	Resp	45804
Ion Ratio	100	Lower	Upper
75	100		
110	10.7	19.3	57.8#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 4.906 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051769.D
 Acq: 9 Oct 2018 23:54

Tgt Ion	117	Resp	64530
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.0	77.0	115.6#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 34.786 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#09

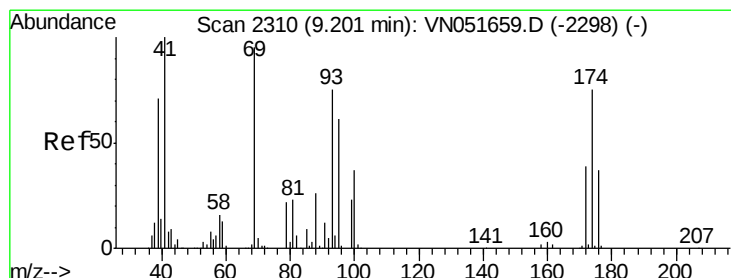
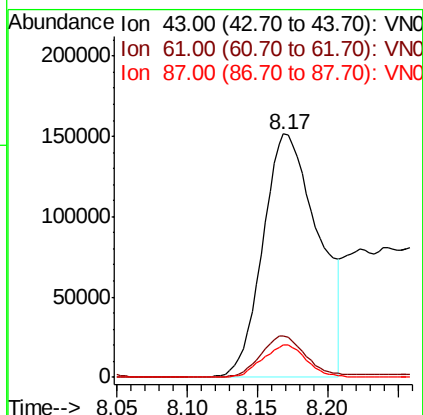
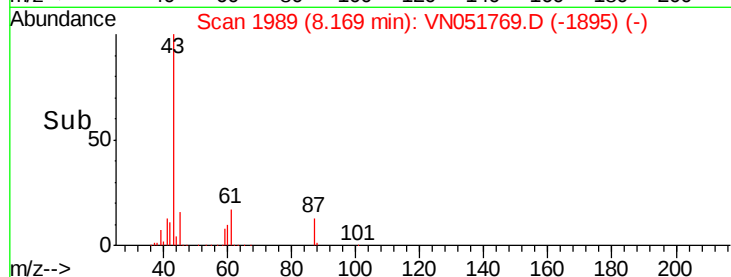
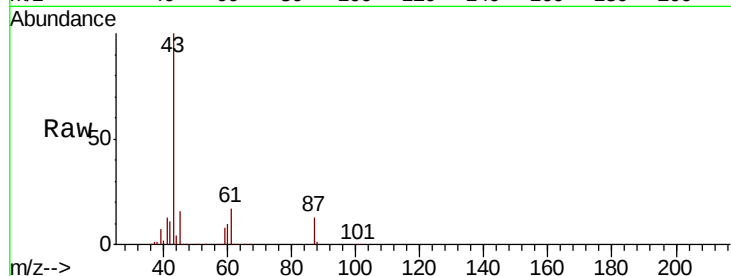
Tot Ion: 43 Resp: 414592

Ion Ratio Lower Upper

43 100

61 14.2 15.8 23.6#

87 10.6 12.6 19.0#



#48

Methyl methacrylate

Concen: 1.418 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

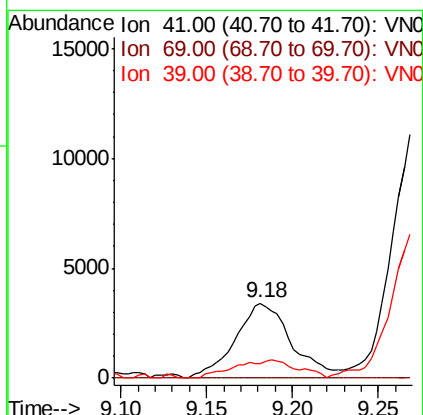
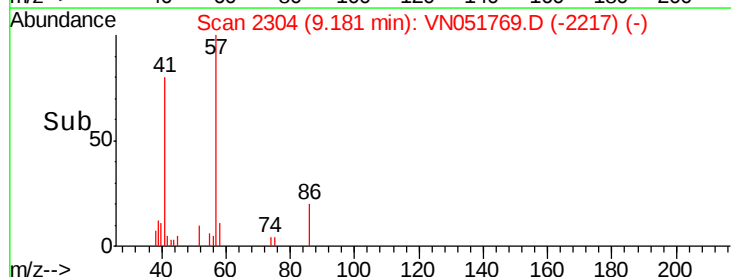
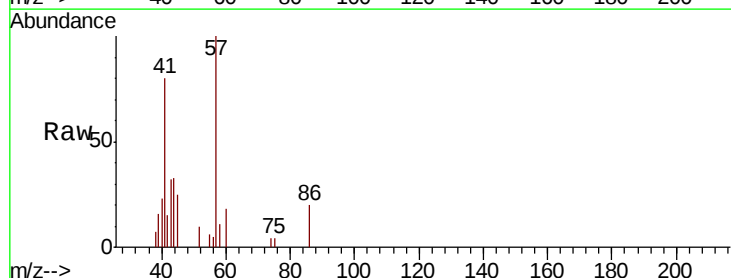
Tgt Ion: 41 Resp: 7720

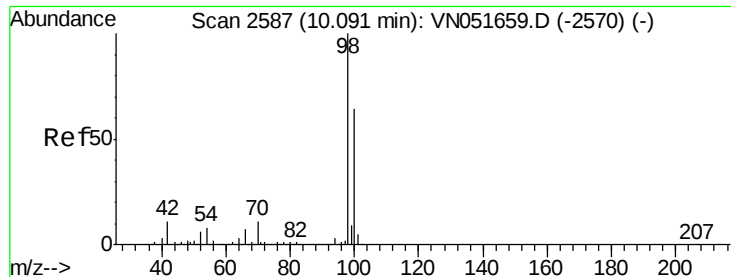
Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

39 27.1 59.2 88.8#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

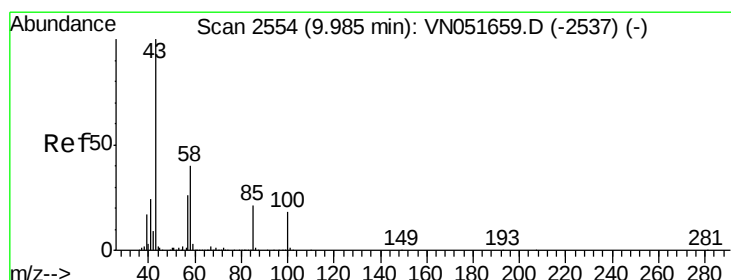
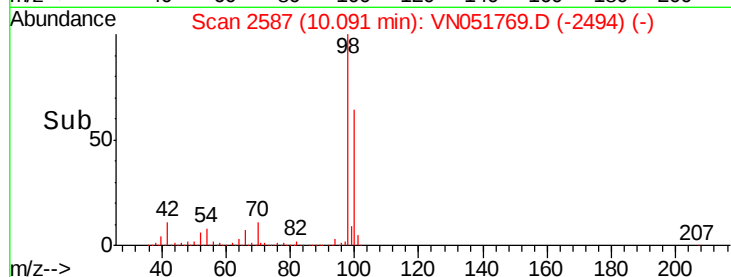
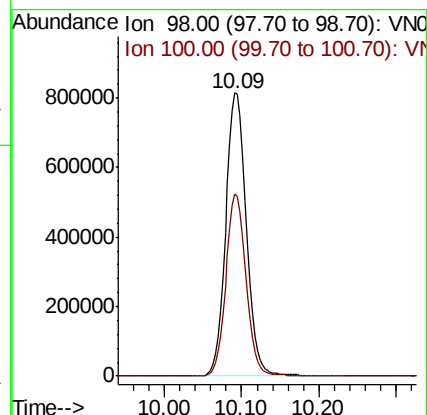
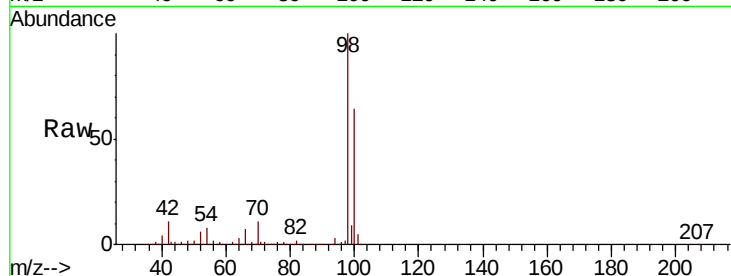
PB113645ZHE#09

Tot Ion: 98 Resp: 1514814

Ion Ratio Lower Upper

98 100

100 63.2 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.338 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051769.D

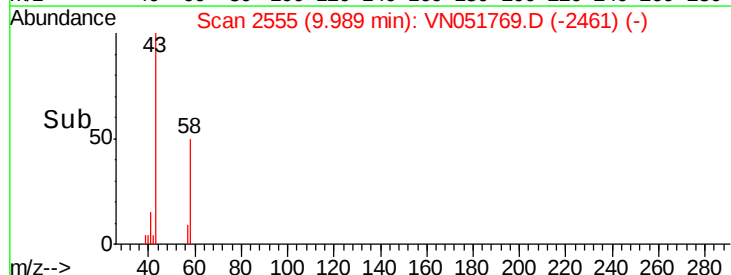
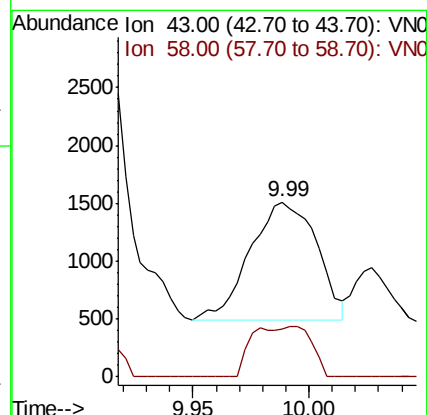
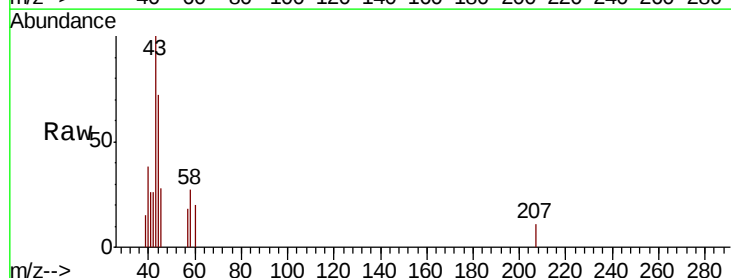
Acq: 9 Oct 2018 23:54

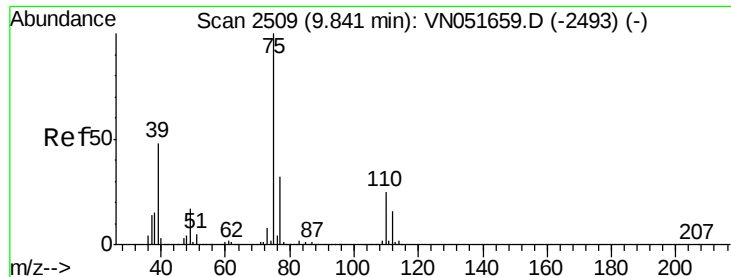
Tgt Ion: 43 Resp: 2040

Ion Ratio Lower Upper

43 100

58 38.1 32.2 48.2





#54

cis-1,3-Dichloropropene

Concen: 0.225 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#09

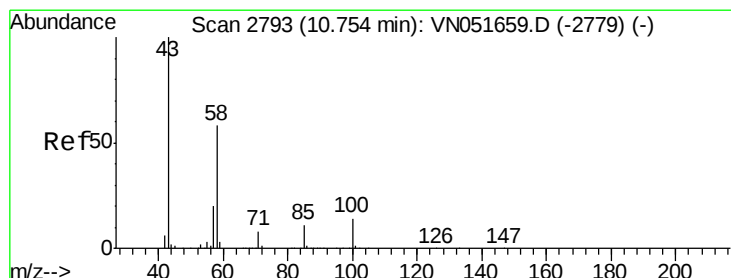
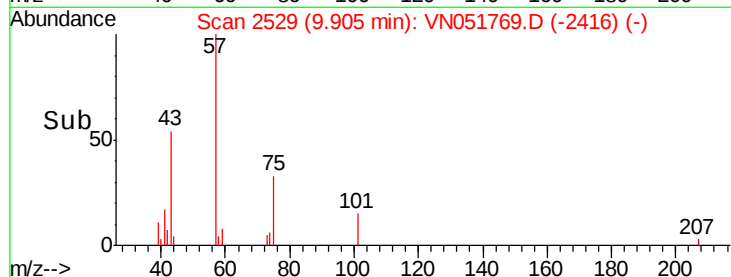
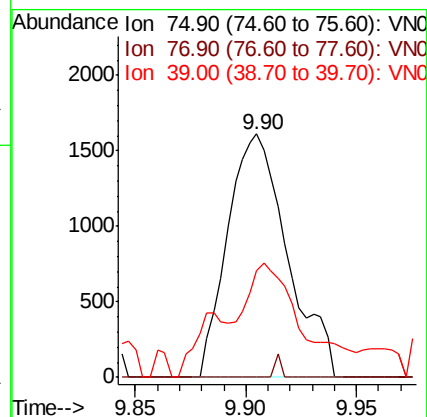
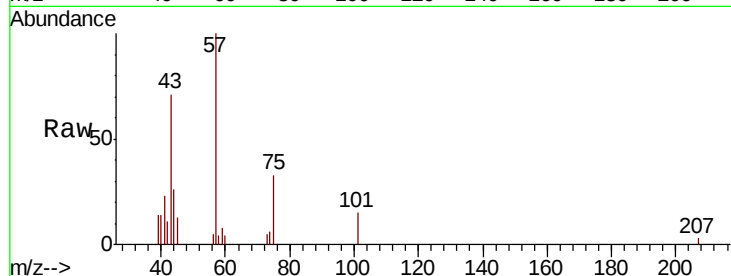
Tot Ion: 75 Resp: 3037

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

39 32.1 38.1 57.1#



#59

2-Hexanone

Concen: 4.863 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051769.D

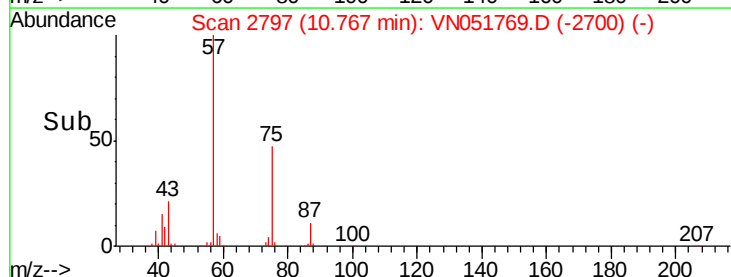
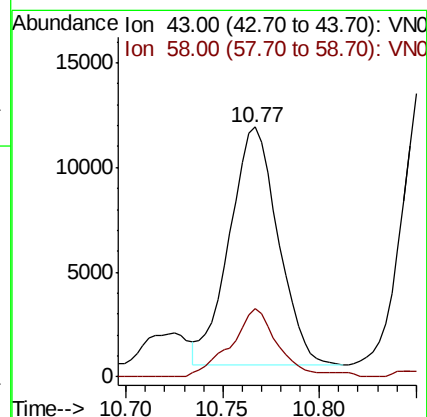
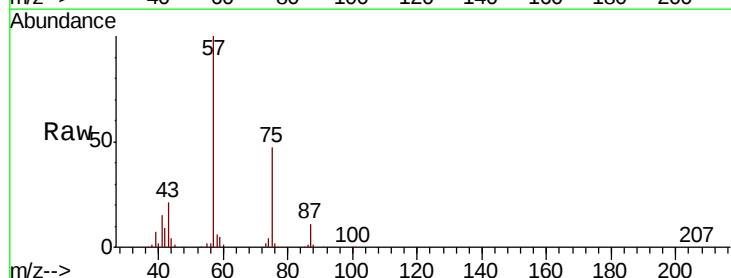
Acq: 9 Oct 2018 23:54

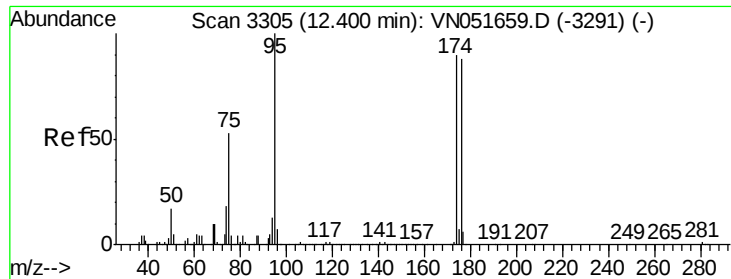
Tgt Ion: 43 Resp: 19944

Ion Ratio Lower Upper

43 100

58 28.2 28.8 86.4#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#09

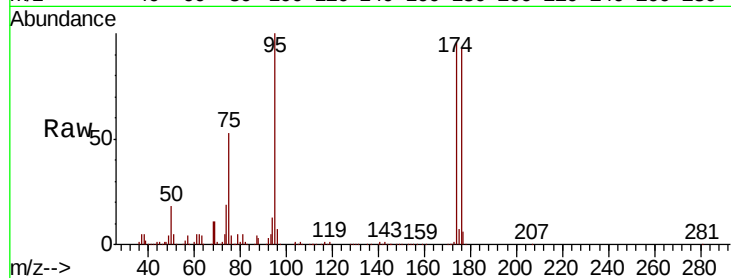
Tot Ion: 95 Resp: 419960

Ion Ratio Lower Upper

95 100

174 96.1 0.0 182.8

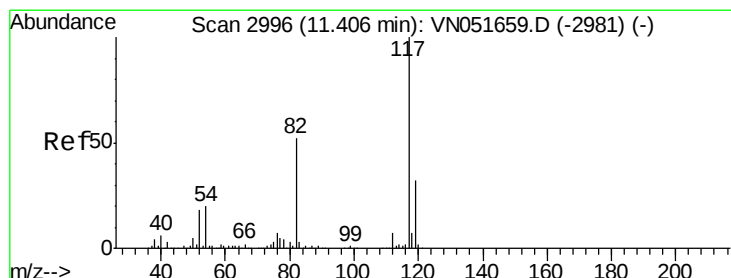
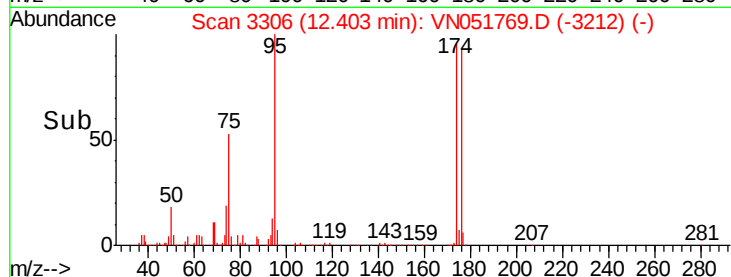
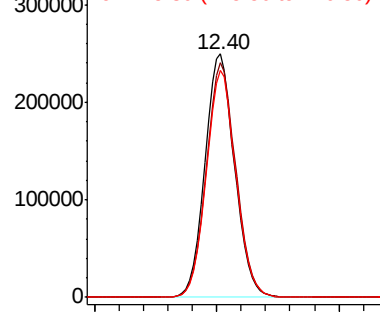
176 92.9 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

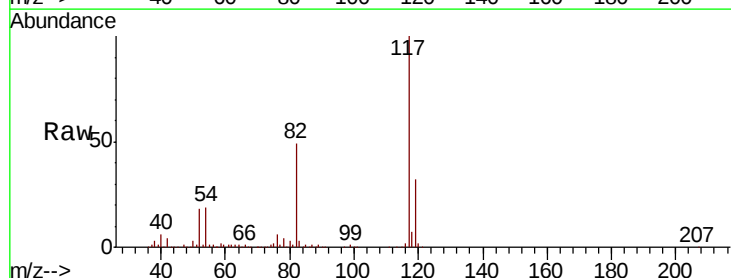
Tgt Ion: 117 Resp: 932462

Ion Ratio Lower Upper

117 100

82 49.5 41.3 61.9

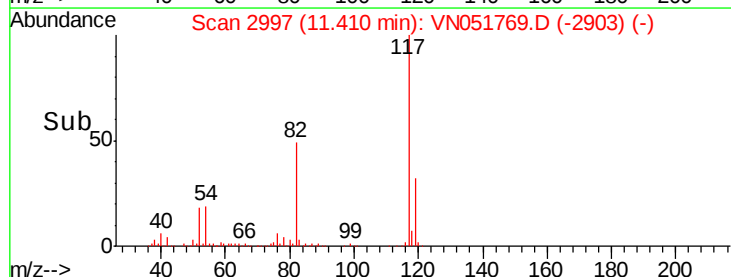
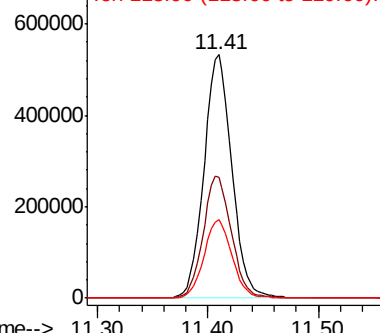
119 32.0 25.9 38.9

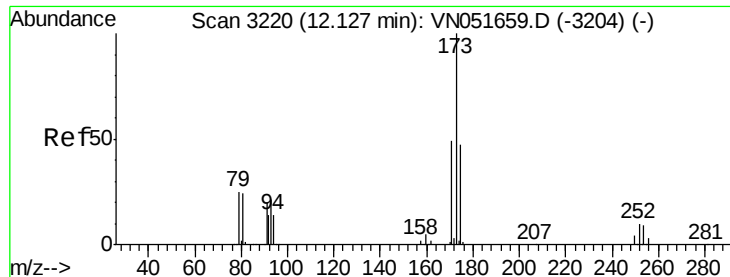


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.510 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#09

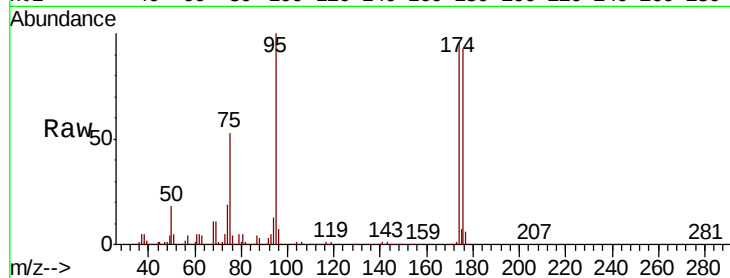
Tot Ion:173 Resp: 3505

Ion Ratio Lower Upper

173 100

175 707.0 24.0 72.0#

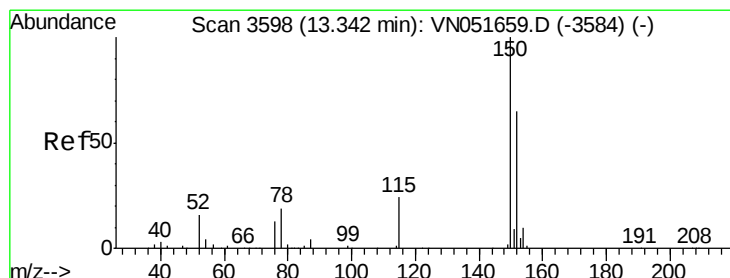
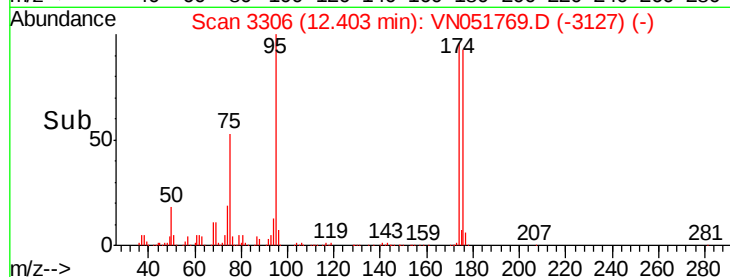
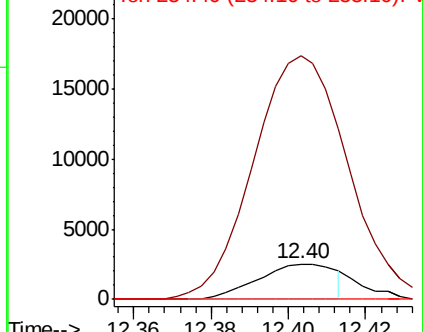
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

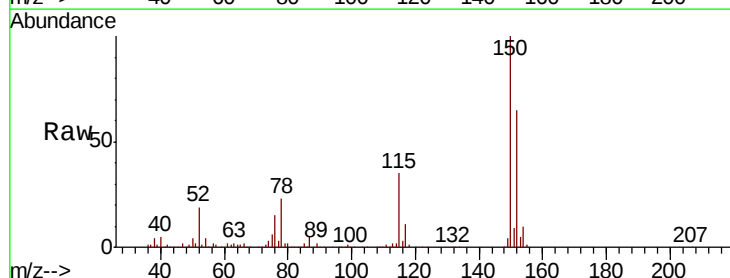
Tgt Ion:152 Resp: 345971

Ion Ratio Lower Upper

152 100

115 53.8 28.6 85.8

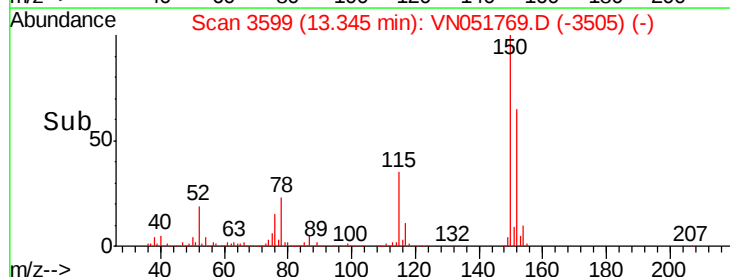
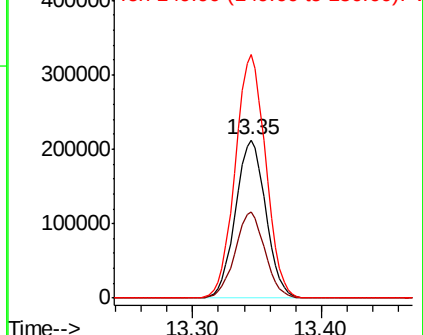
150 155.2 0.0 352.4

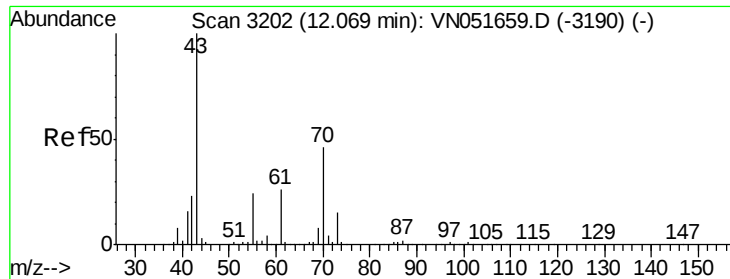


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#09

Tot Ion: 43 Resp: 225

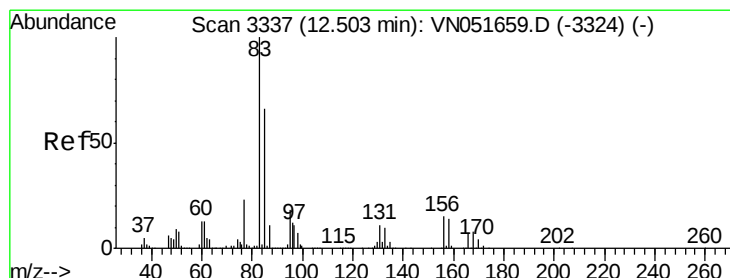
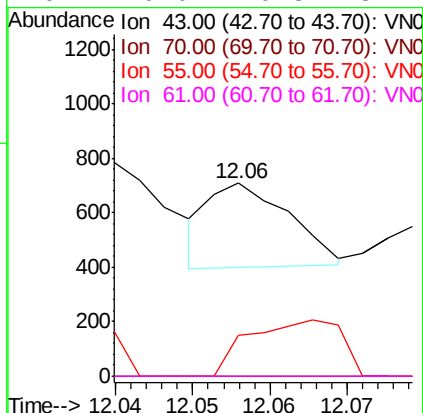
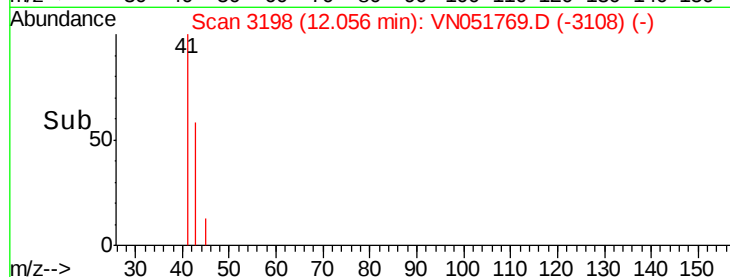
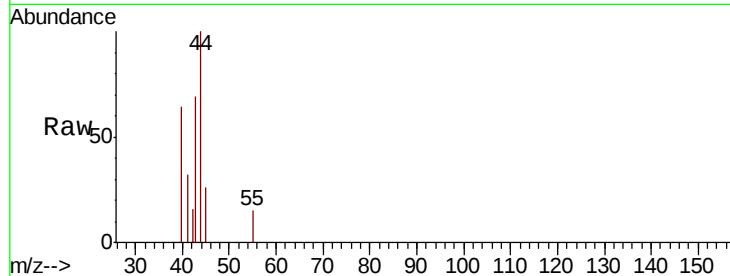
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 76.4 19.1 28.7#

61 0.0 20.8 31.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.58 min Scan# 3361

Delta R.T. 0.08 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

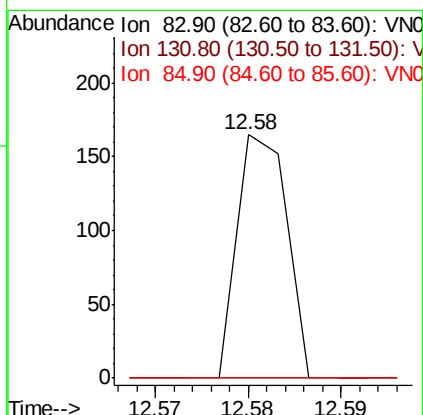
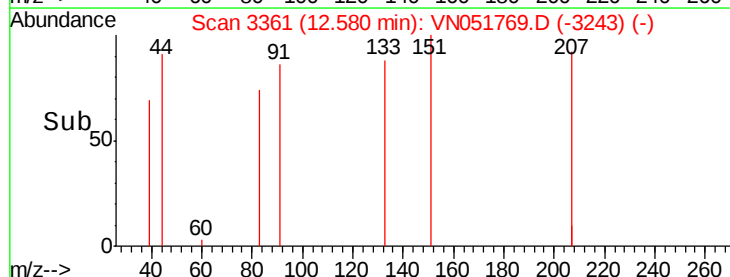
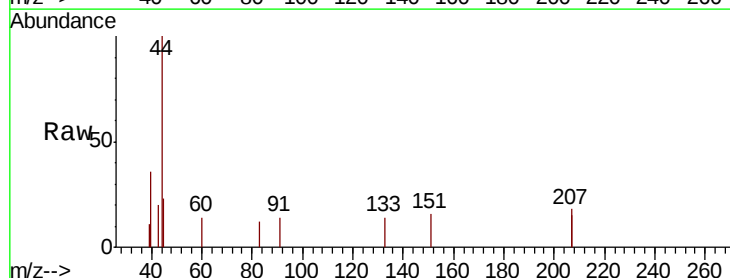
Tgt Ion: 83 Resp: 61

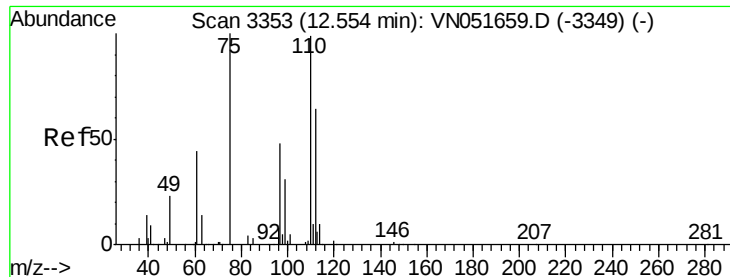
Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

85 0.0 33.0 98.9#





#76

1,2,3-Trichloropropane

Concen: 51.885 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

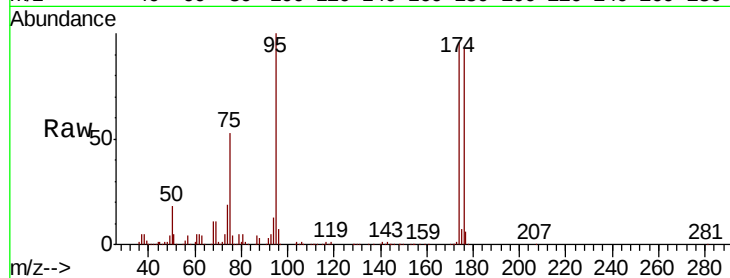
PB113645ZHE#09

Tot Ion: 75 Resp: 222377

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

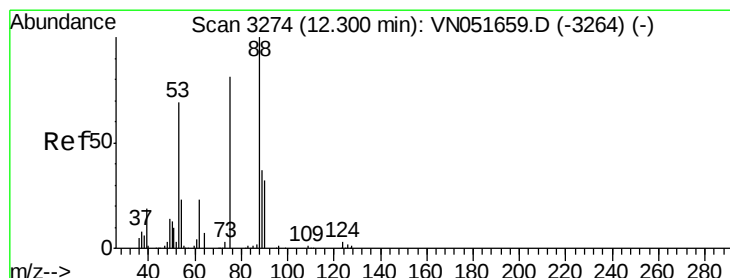
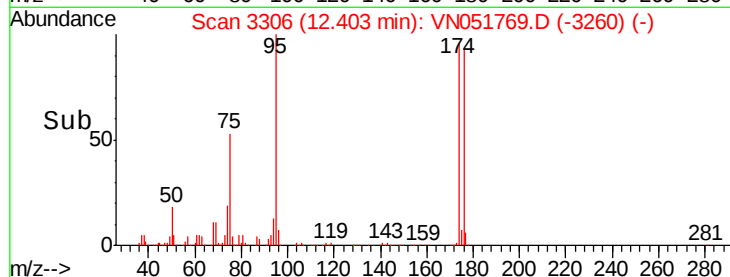
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 118.152 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051769.D

Acq: 9 Oct 2018 23:54

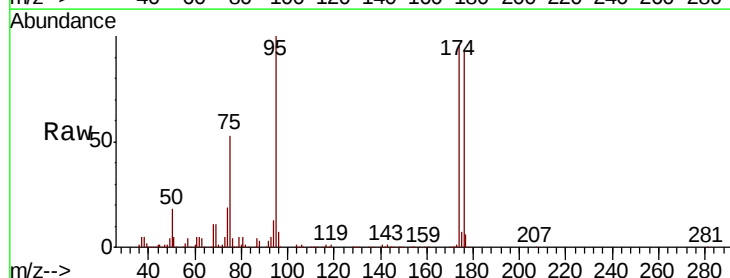
Tgt Ion: 75 Resp: 222377

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

150000

100000

50000

0

Time-->

