

Data File : VN051931.D
Acq On : 18 Oct 2018 21:48
Operator : MD\SY
Sample : PB113908ZHE#01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#01

Quant Time: Oct 19 06:53:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	957692	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1423107	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1257929	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	451310	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	524422	59.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.14%	
35) Dibromofluoromethane	7.59	113	519363	57.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.84%	
50) Toluene-d8	10.09	98	1930912	58.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.30%	
62) 4-Bromofluorobenzene	12.40	95	551046	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	

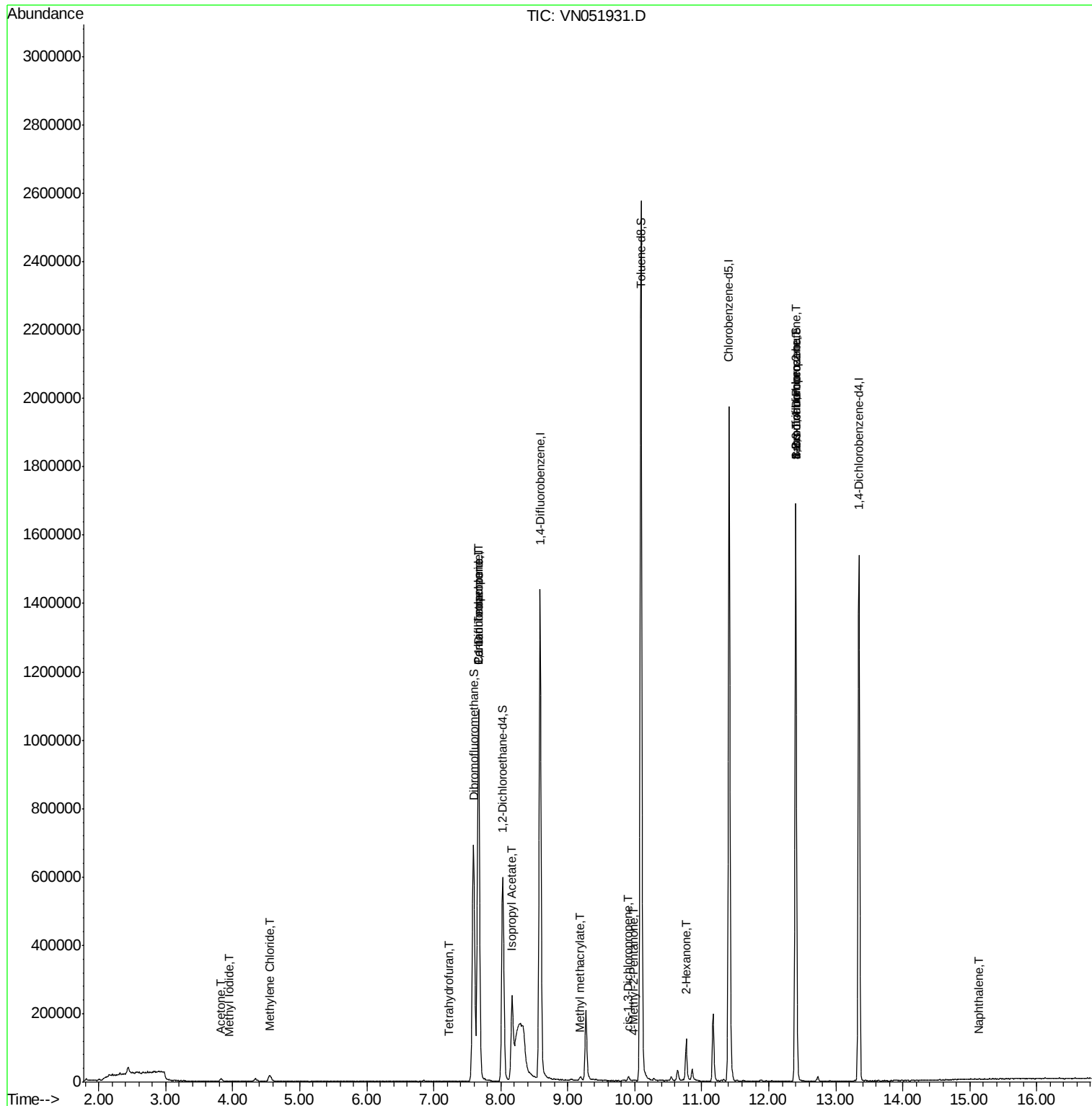
Target Compounds			Qvalue			
5) Bromomethane	2.57	94	1754	Below Cal		93
10) Methyl Iodide	3.95	142	31	3.284 ug/l #		41
13) Acrolein	3.64	56	74	Below Cal #		1
16) Acetone	3.83	43	10537	6.702 ug/l		92
18) Methyl Acetate	4.34	43	12106	Below Cal		95
20) Methylene Chloride	4.55	84	14153	1.771 ug/l #		91
29) Tetrahydrofuran	7.22	42	1126	0.820 ug/l #		42
31) Cyclohexane	7.67	56	15226	Below Cal #		22
36) 1,1-Dichloropropene	7.67	75	59549	5.391 ug/l #		47
37) Ethyl Acetate	6.92	43	515	Below Cal #		64
38) Carbon Tetrachloride	7.67	117	85176	6.548 ug/l #		15
43) Isopropyl Acetate	8.17	43	302229	29.578 ug/l #		83
48) Methyl methacrylate	9.18	41	5593	1.254 ug/l #		13
51) 4-Methyl-2-Pentanone	9.98	43	1474	0.287 ug/l		95
54) cis-1,3-Dichloropropene	9.91	75	2817	0.234 ug/l #		68
59) 2-Hexanone	10.77	43	15174	4.401 ug/l #		53
71) Bromoform	12.40	173	5180	3.922 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	274445	50.032 ug/l #		100
79) 2-Chlorotoluene	12.67	91	94	Below Cal #		36
81) trans-1,4-Dichloro-2-buten	12.40	75	274445	164.415 ug/l #		14
95) Naphthalene	15.14	128	475	4.091 ug/l #		70

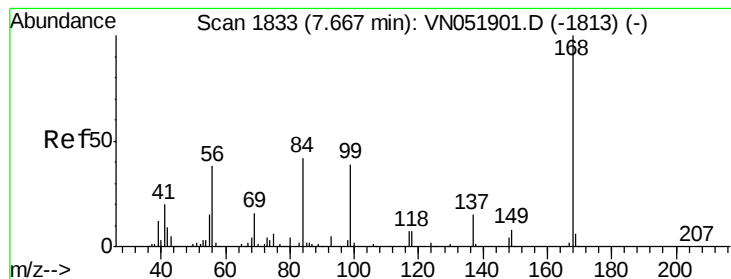
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

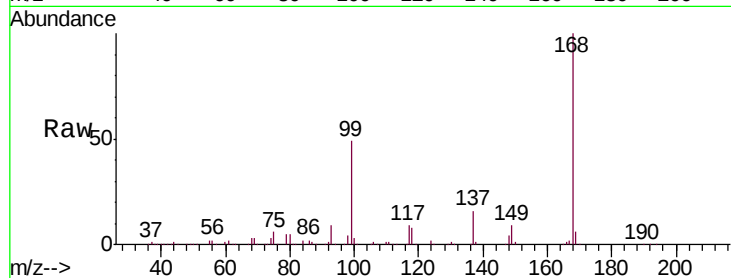
PB113908ZHE#01

Tgt Ion:168 Resp: 957692

Ion Ratio Lower Upper

168 100

99 48.7 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

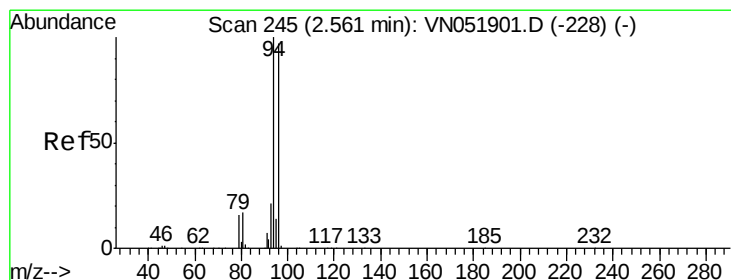
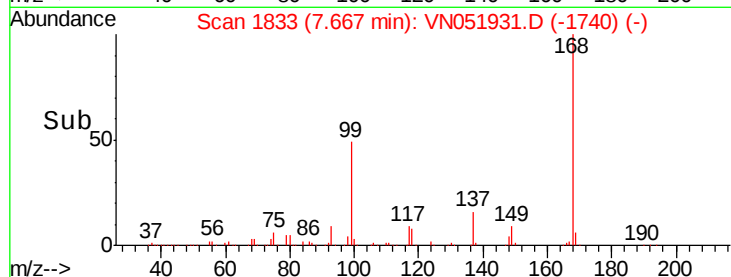
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051931.D

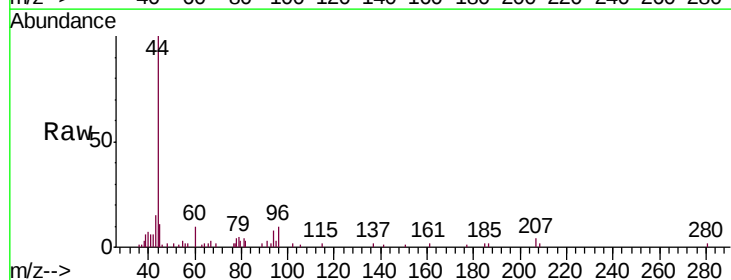
Acq: 18 Oct 2018 21:48

Tgt Ion: 94 Resp: 1754

Ion Ratio Lower Upper

94 100

96 103.4 77.5 116.3



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

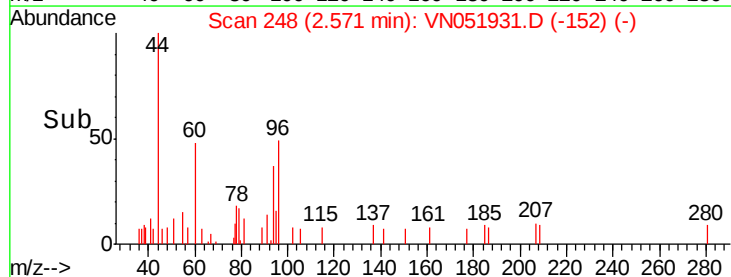
2.57

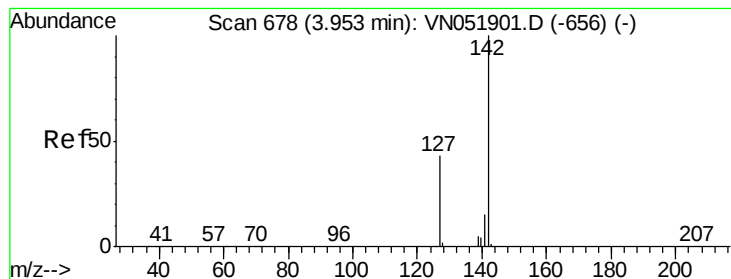
1000

500

0

Time-->





#10

Methyl Iodide

Concen: 3.284 ug/l

RT: 3.95 min Scan# 677

Delta R.T. -0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#01

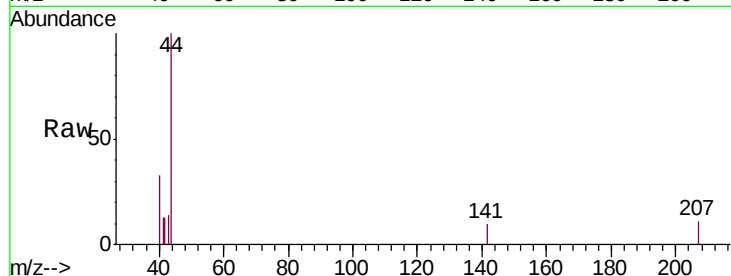
Tgt Ion: 142 Resp: 31

Ion Ratio Lower Upper

142 100

127 0.0 34.3 51.5#

141 0.0 11.1 16.7#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.95

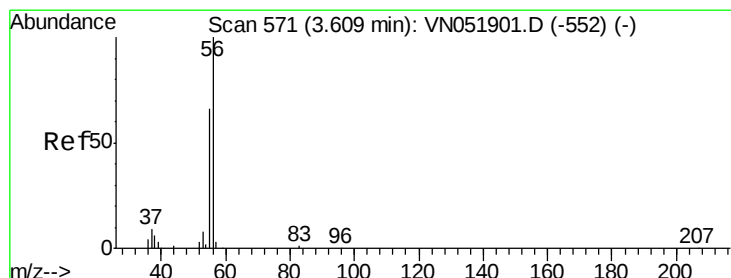
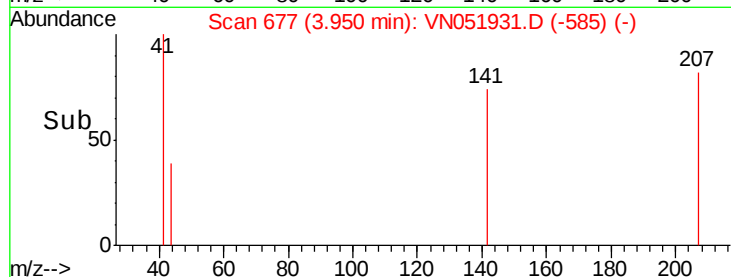
150

100

50

0

Time-->



#13

Acrolein

Concen: Below Cal

RT: 3.64 min Scan# 580

Delta R.T. 0.03 min

Lab File: VN051931.D

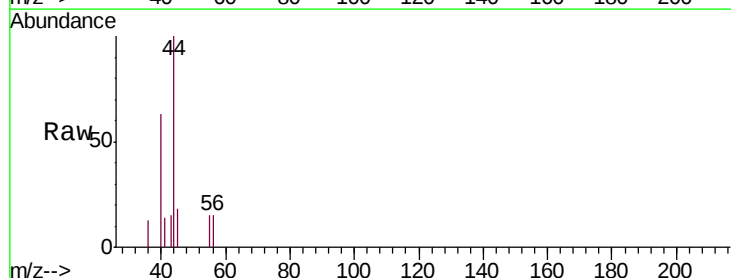
Acq: 18 Oct 2018 21:48

Tgt Ion: 56 Resp: 74

Ion Ratio Lower Upper

56 100

55 362.2 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): V

Ion 55.00 (54.70 to 55.70): V

3.64

250

200

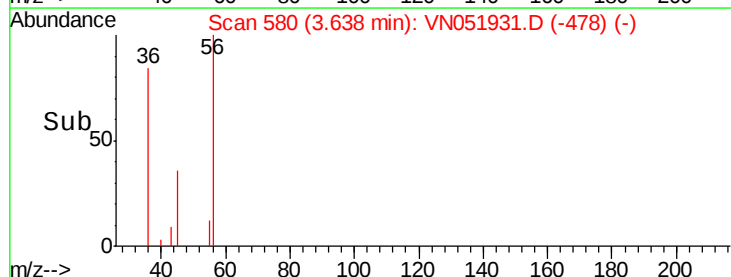
150

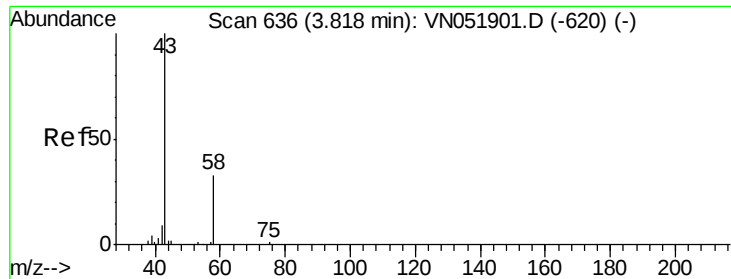
100

50

0

Time-->





#16

Acetone

Concen: 6.702 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

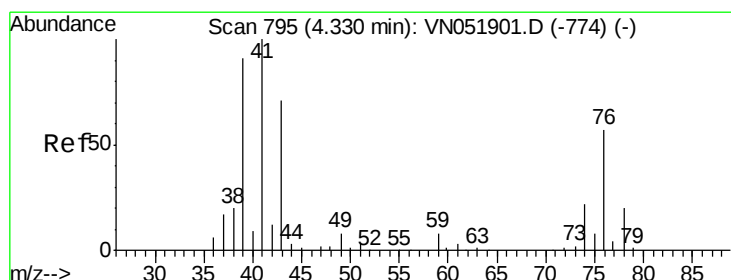
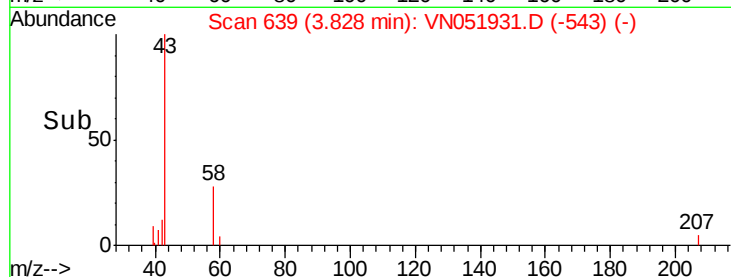
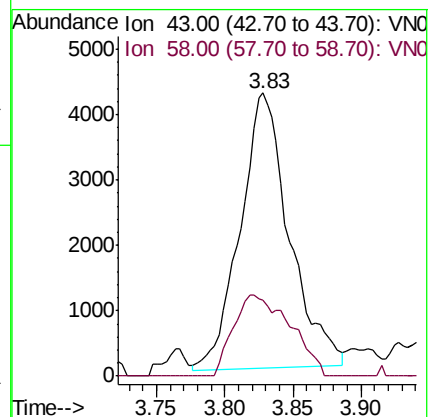
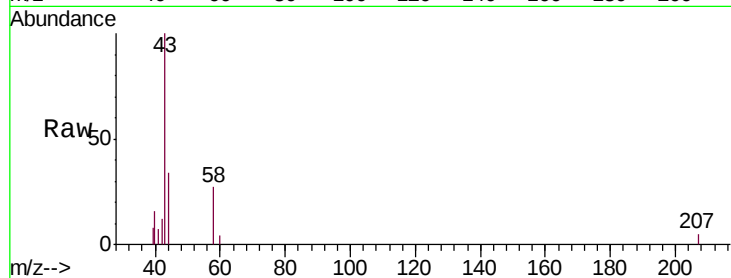
PB113908ZHE#01

Tgt Ion: 43 Resp: 10537

Ion Ratio Lower Upper

43 100

58 28.0 25.9 38.9



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051931.D

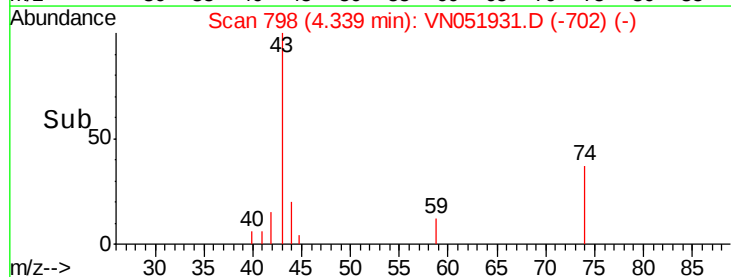
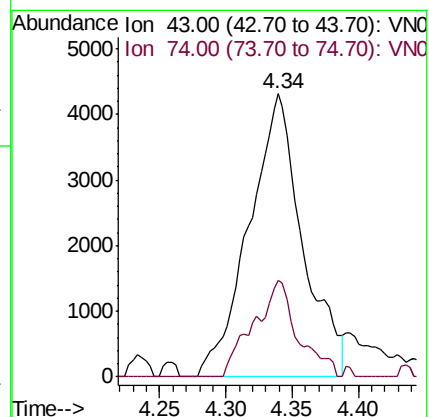
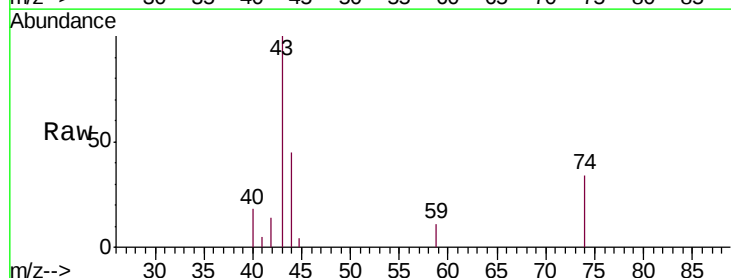
Acq: 18 Oct 2018 21:48

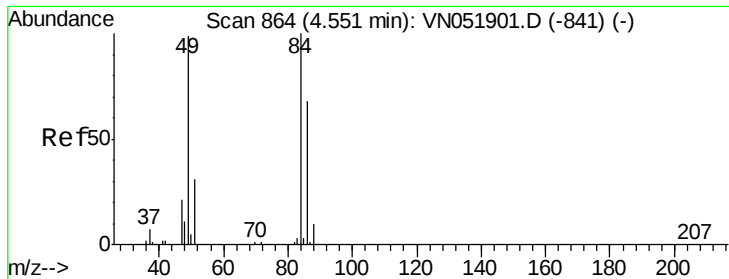
Tgt Ion: 43 Resp: 12106

Ion Ratio Lower Upper

43 100

74 28.3 24.9 37.3





#20

Methylene Chloride

Concen: 1.771 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#01

Tgt Ion: 84 Resp: 14153

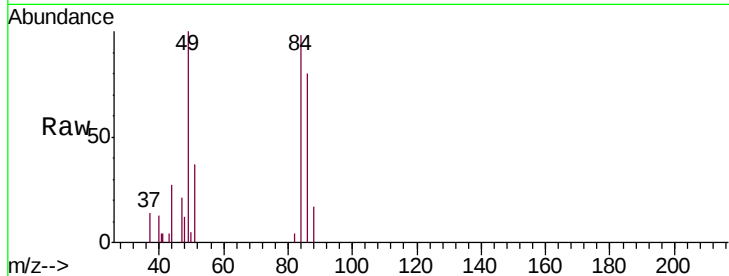
Ion Ratio Lower Upper

84 100

49 101.7 79.0 118.4

51 37.4 24.9 37.3#

86 81.3 54.6 82.0

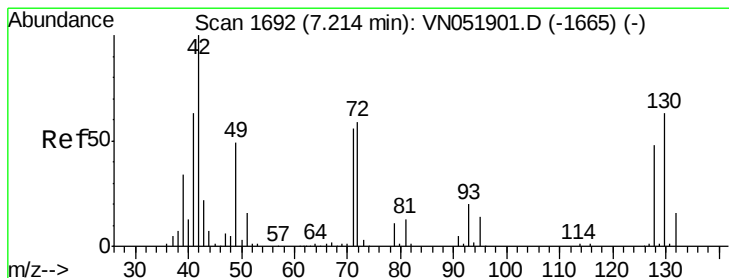
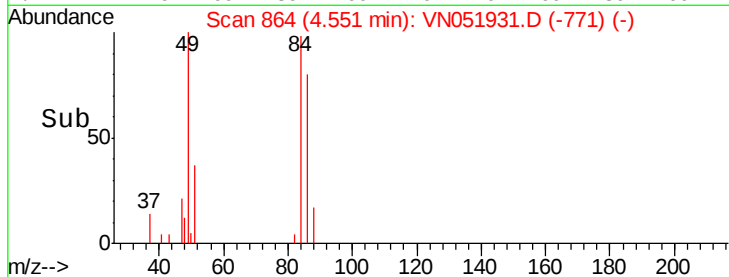
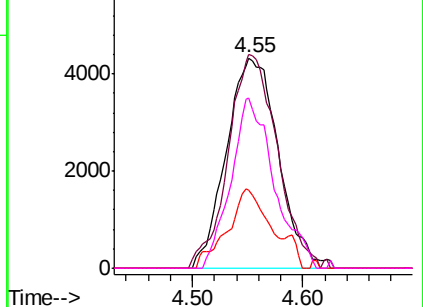


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#29

Tetrahydrofuran

Concen: 0.820 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

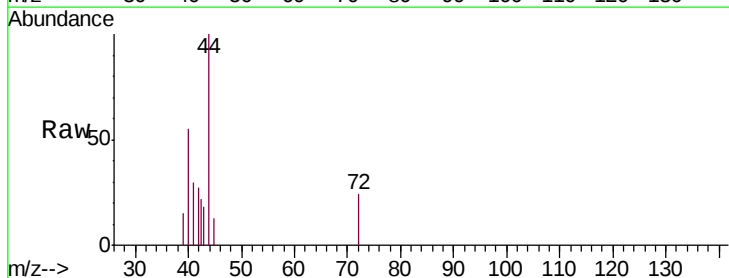
Tgt Ion: 42 Resp: 1126

Ion Ratio Lower Upper

42 100

72 29.2 47.7 71.5#

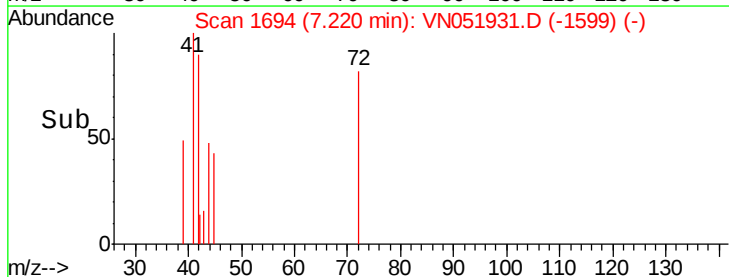
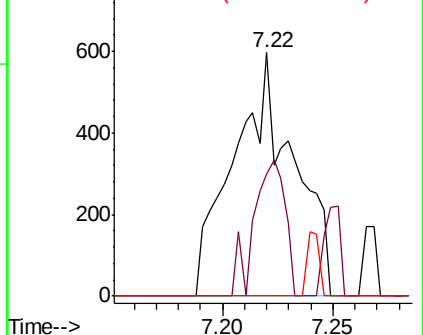
71 0.0 45.4 68.0#

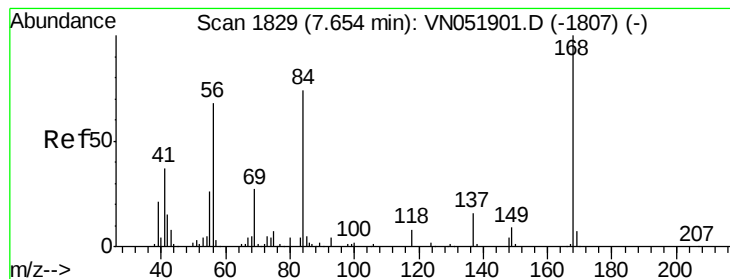


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#01

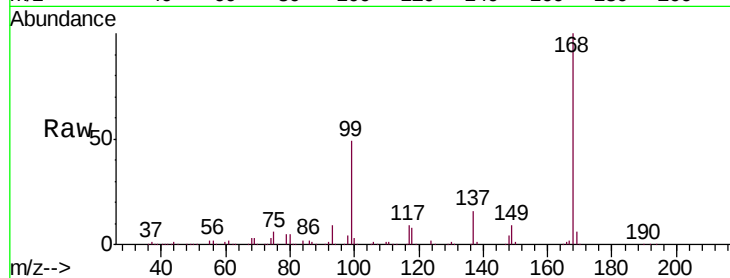
Tgt Ion: 56 Resp: 15226

Ion Ratio Lower Upper

56 100

69 166.9 31.2 46.8#

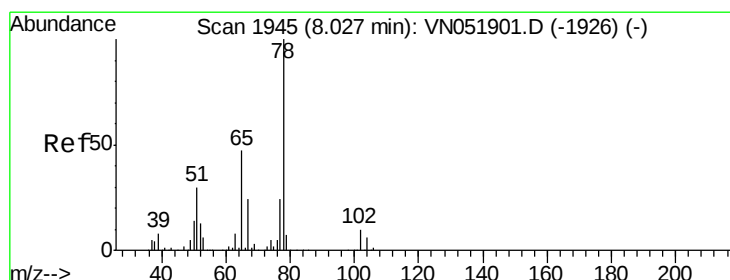
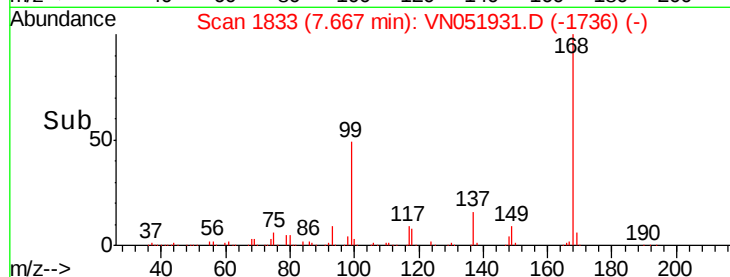
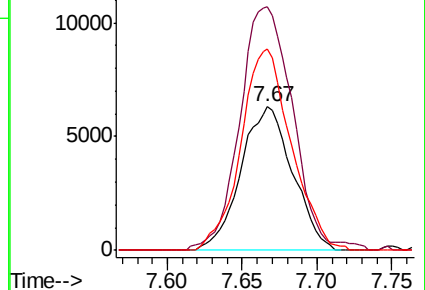
84 140.3 86.6 130.0#



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# 1945

Delta R.T. 0.00 min

Lab File: VN051931.D

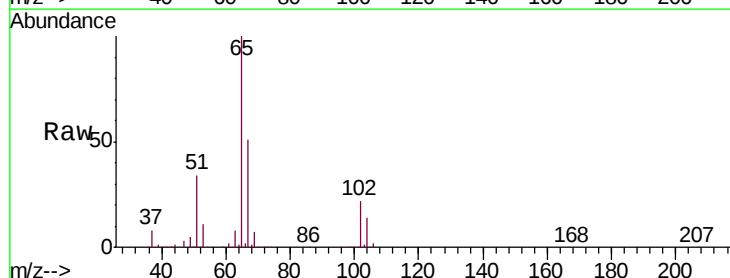
Acq: 18 Oct 2018 21:48

Tgt Ion: 65 Resp: 524422

Ion Ratio Lower Upper

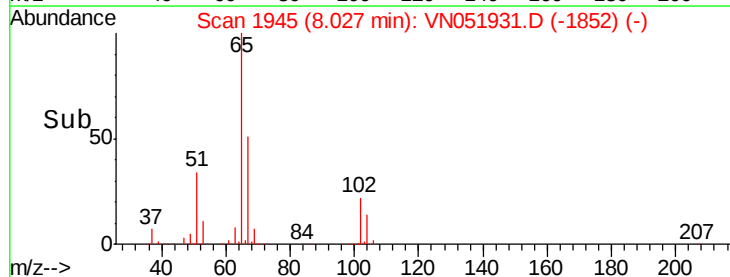
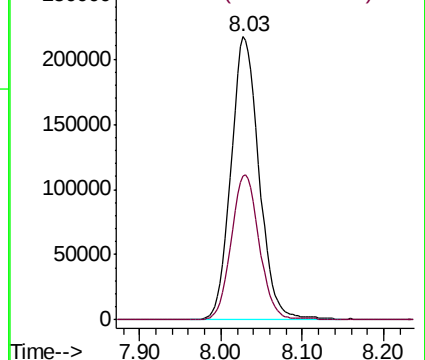
65 100

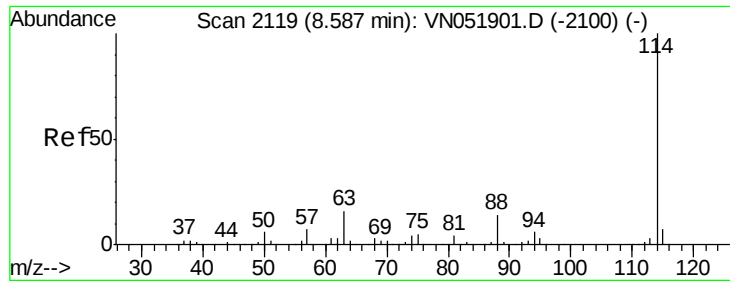
67 51.1 0.0 104.0



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# 2119

Delta R.T. 0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

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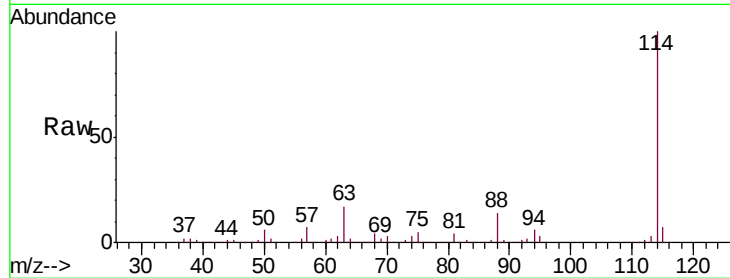
Tgt Ion:114 Resp: 1423107

Ion Ratio Lower Upper

114 100

63 16.7 0.0 31.8

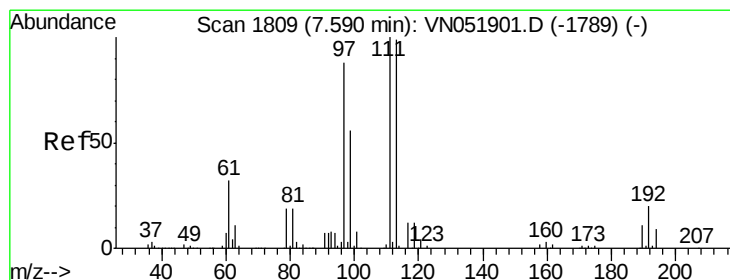
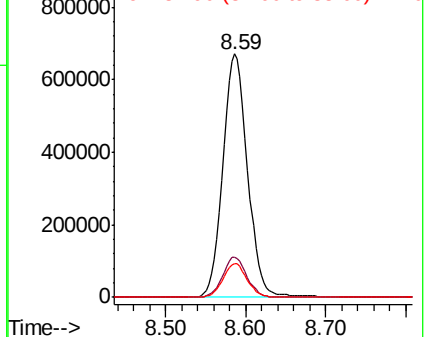
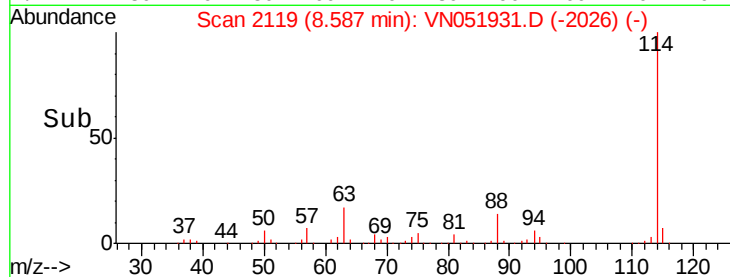
88 14.1 0.0 28.0



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: VN051931.D

Acq: 18 Oct 2018 21:48

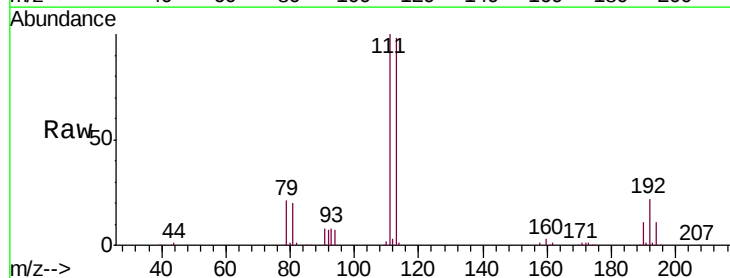
Tgt Ion:113 Resp: 519363

Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

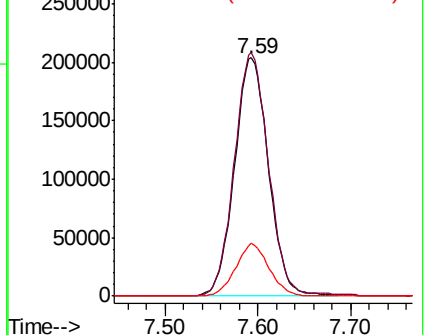
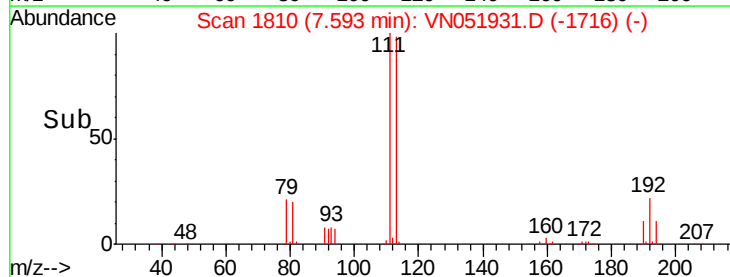
192 21.5 17.3 25.9

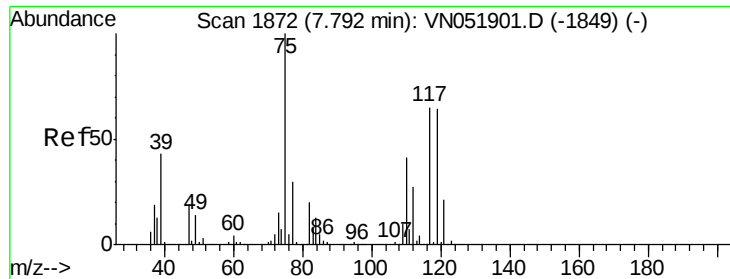


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

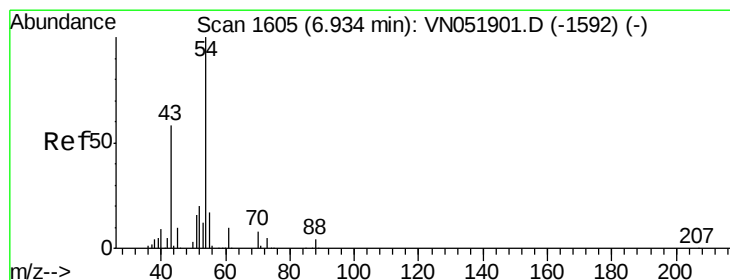
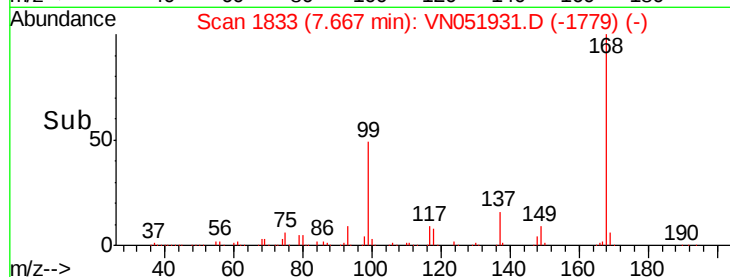
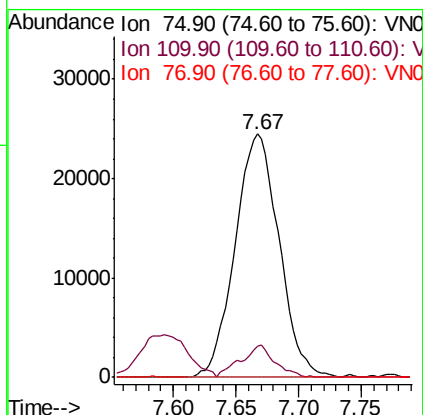
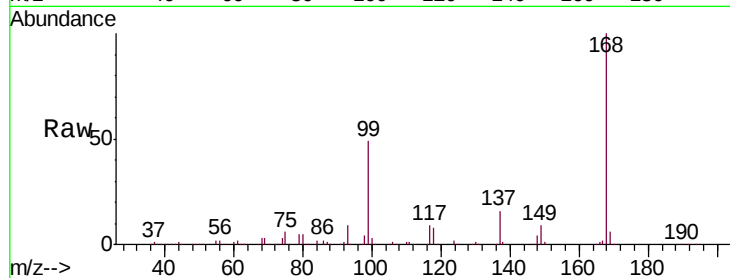




#36
 1,1-Dichloropropene
 Concen: 5.391 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051931.D
 Acq: 18 Oct 2018 21:48

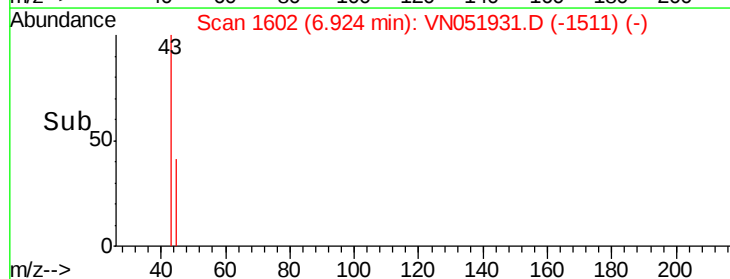
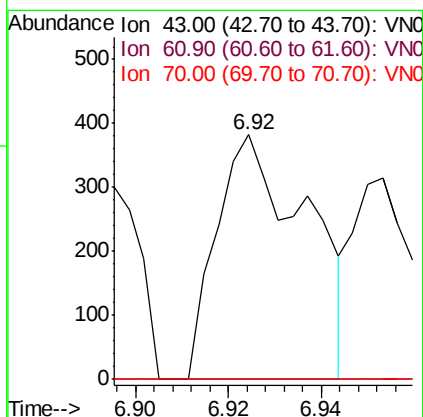
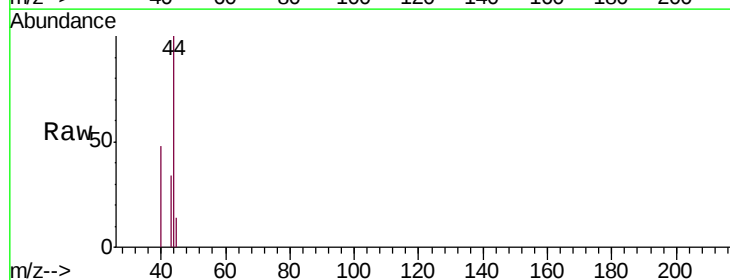
Instrument :
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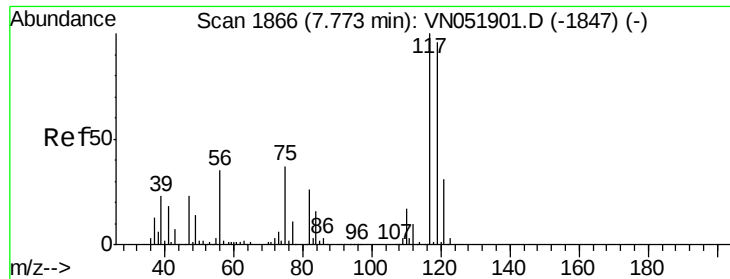
Tgt Ion: 75 Resp: 59549
 Ion Ratio Lower Upper
 75 100
 110 10.4 21.0 63.0#
 77 0.0 24.9 37.3#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.92 min Scan# 1602
 Delta R.T. -0.01 min
 Lab File: VN051931.D
 Acq: 18 Oct 2018 21:48

Tgt Ion: 43 Resp: 515
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.0 19.6#
 70 0.0 10.4 15.6#





#38

Carbon Tetrachloride

Concen: 6.548 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#01

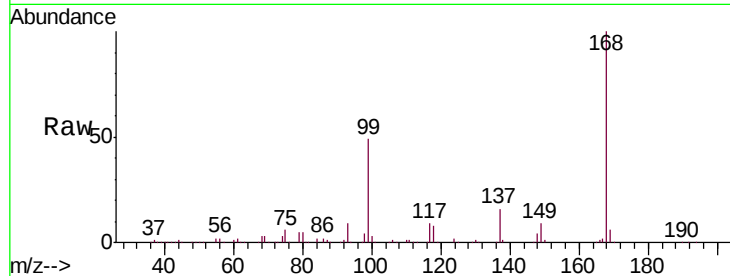
Tgt Ion:117 Resp: 85176

Ion Ratio Lower Upper

117 100

119 4.7 77.0 115.6#

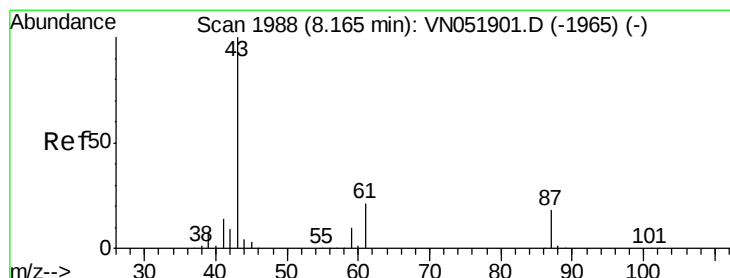
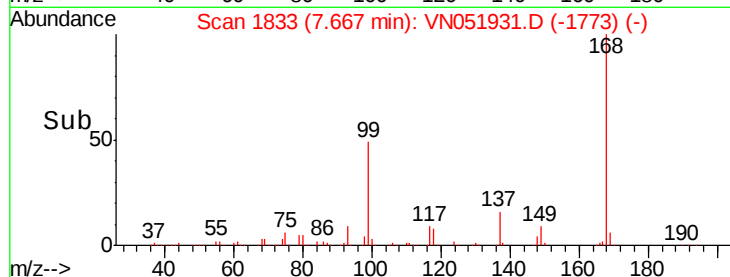
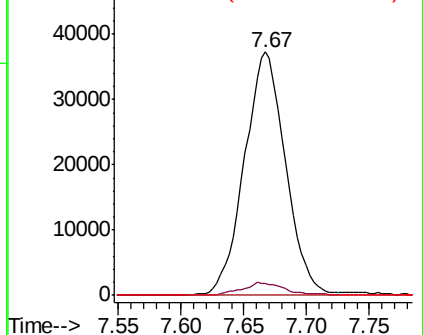
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 29.578 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

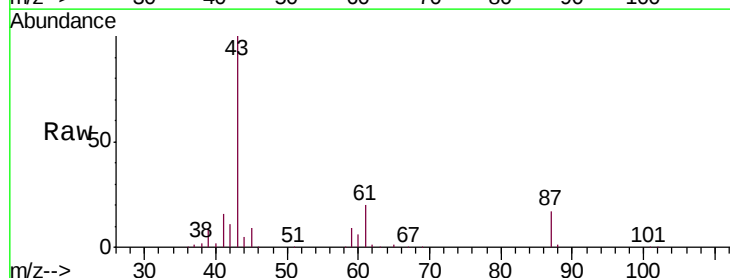
Tgt Ion: 43 Resp: 302229

Ion Ratio Lower Upper

43 100

61 18.4 24.9 37.3#

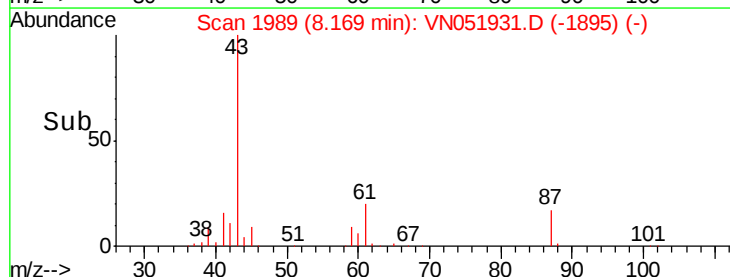
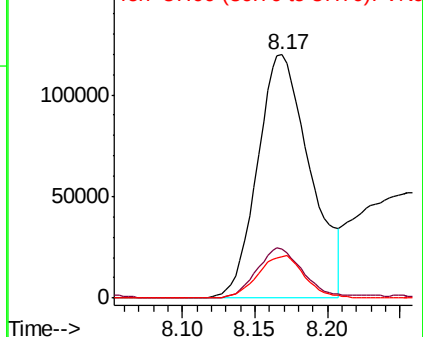
87 15.4 14.6 22.0

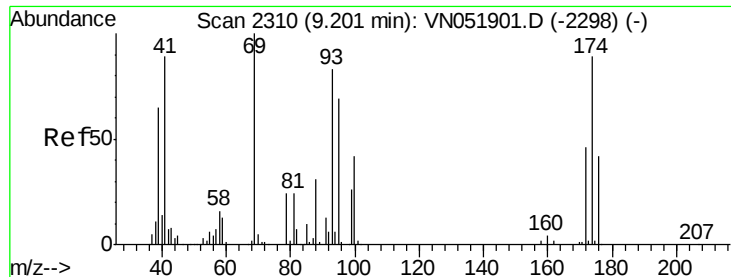


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

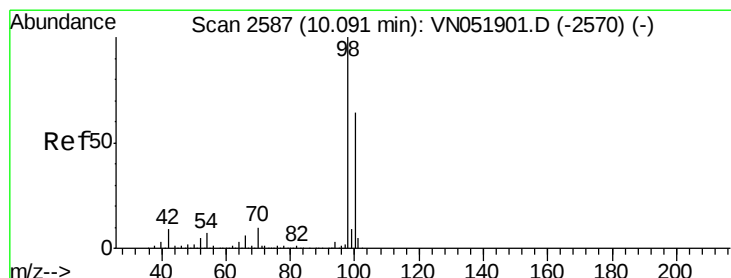
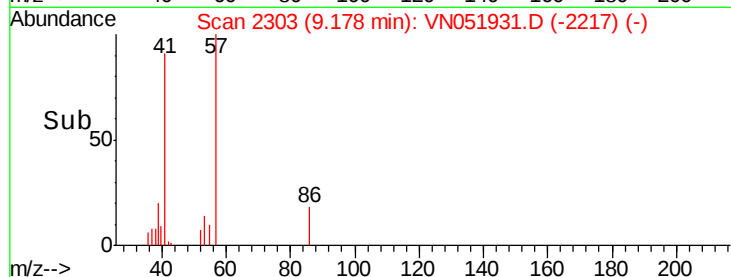
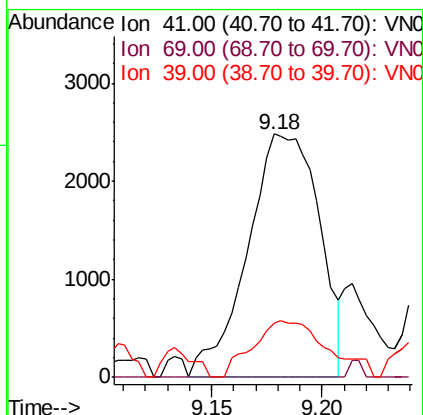
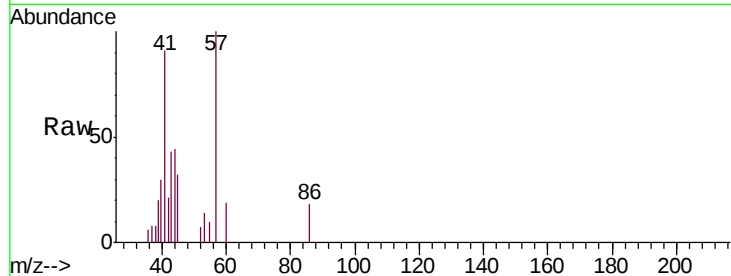




#48
Methyl methacrylate
Concen: 1.254 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051931.D
Acq: 18 Oct 2018 21:48

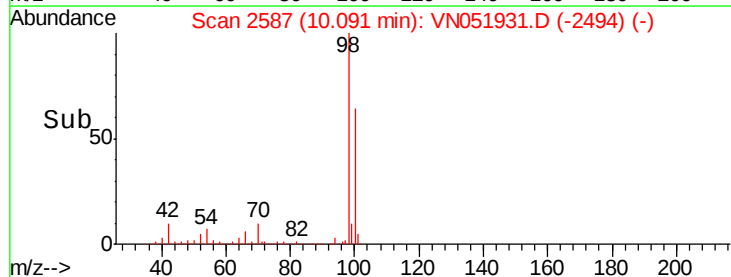
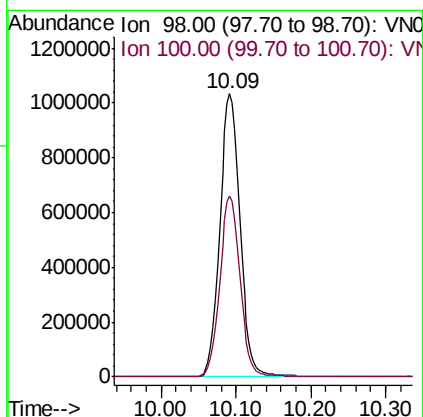
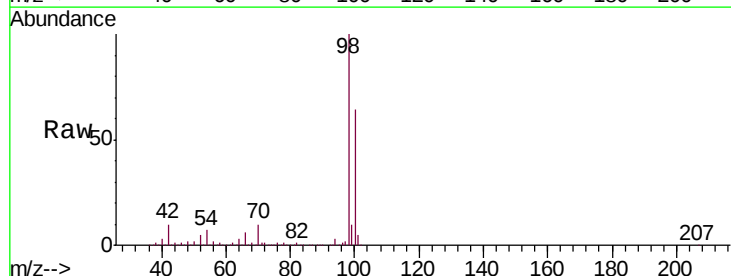
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#01

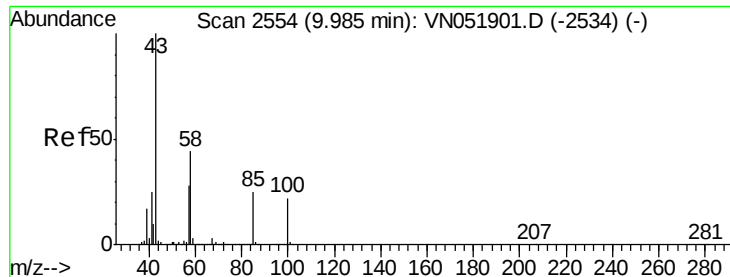
Tgt Ion: 41 Resp: 5593
Ion Ratio Lower Upper
41 100
69 0.0 90.2 135.2#
39 23.9 59.7 89.5#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051931.D
Acq: 18 Oct 2018 21:48

Tgt Ion: 98 Resp: 1930912
Ion Ratio Lower Upper
98 100
100 63.8 51.0 76.4

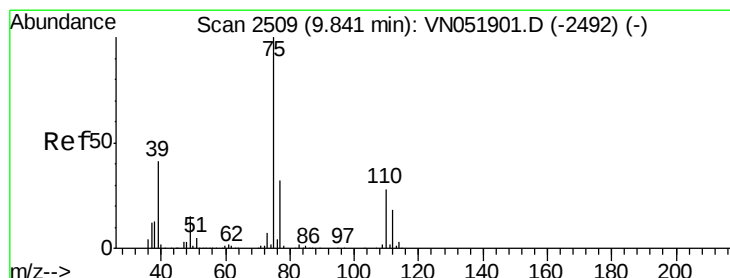
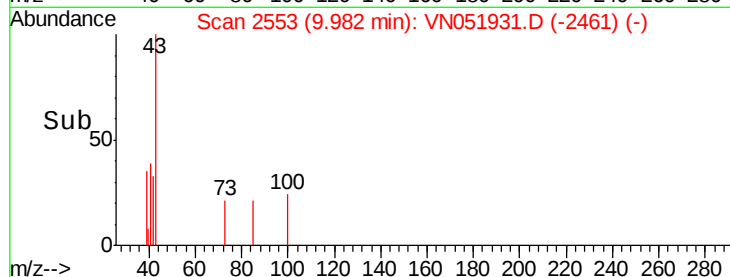
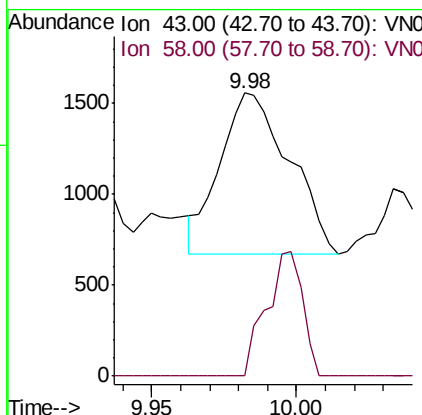
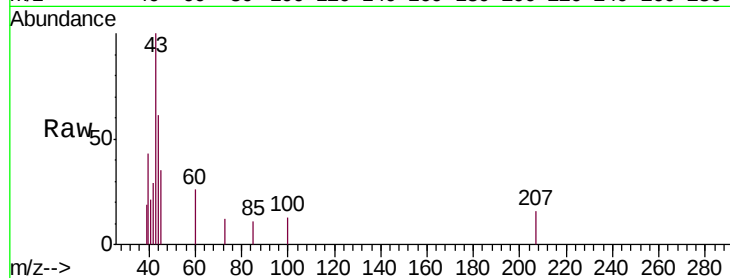




#51
 4-Methyl-2-Pentanone
 Concen: 0.287 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN051931.D
 Acq: 18 Oct 2018 21:48

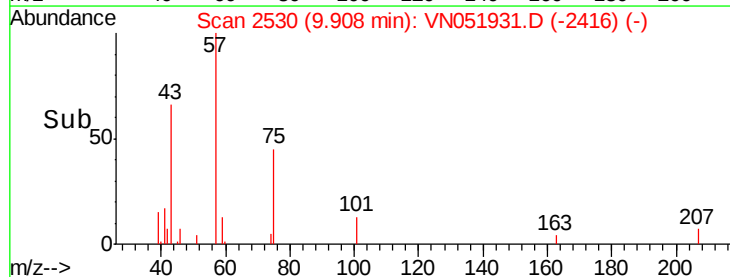
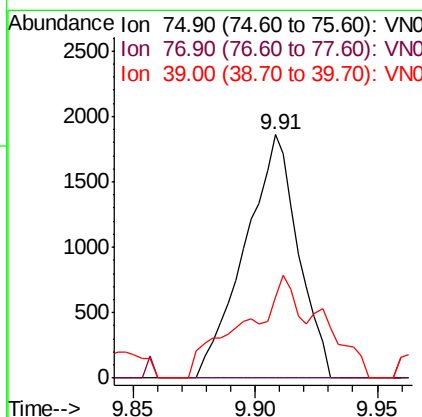
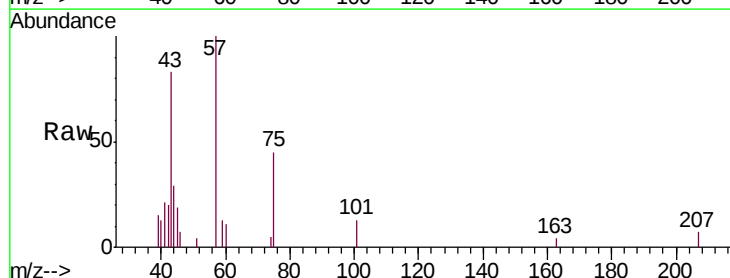
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#01

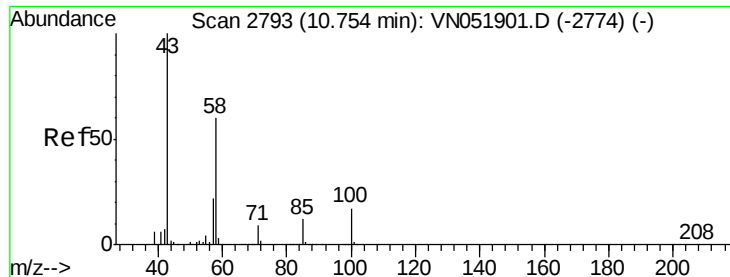
Tgt Ion: 43 Resp: 1474
 Ion Ratio Lower Upper
 43 100
 58 39.8 34.6 52.0



#54
 cis-1,3-Dichloropropene
 Concen: 0.234 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN051931.D
 Acq: 18 Oct 2018 21:48

Tgt Ion: 75 Resp: 2817
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 33.3 32.8 49.2





#59

2-Hexanone

Concen: 4.401 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

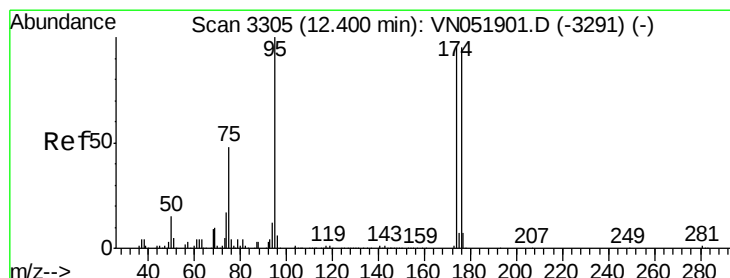
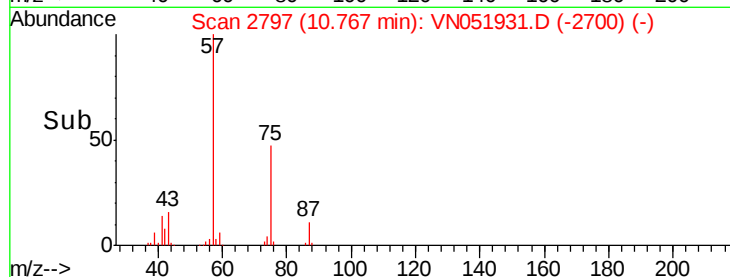
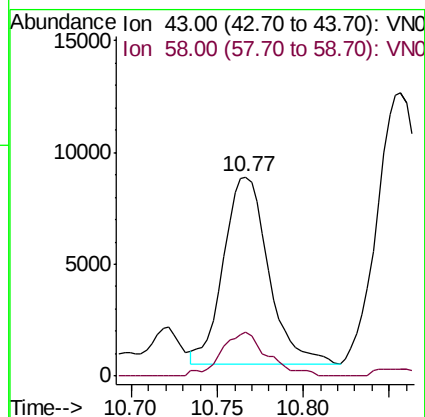
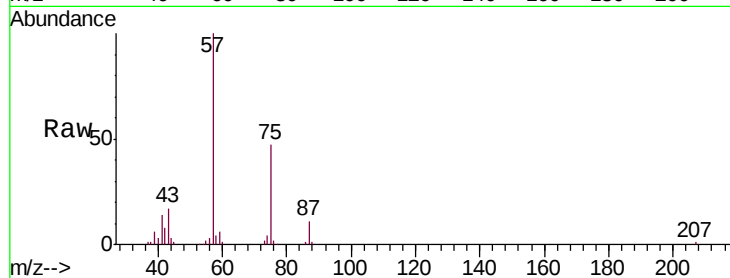
PB113908ZHE#01

Tgt Ion: 43 Resp: 15174

Ion Ratio Lower Upper

43 100

58 24.4 29.8 89.5#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

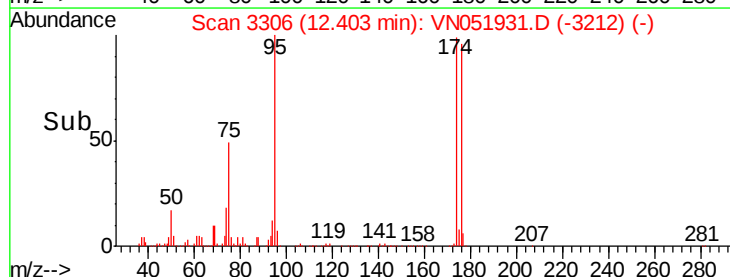
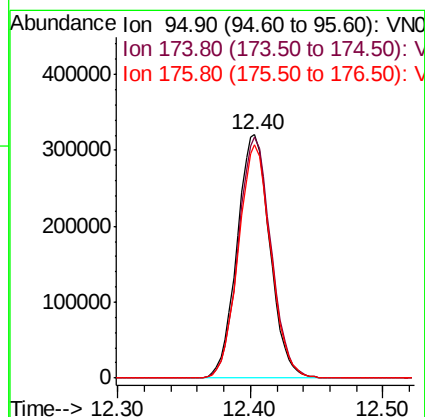
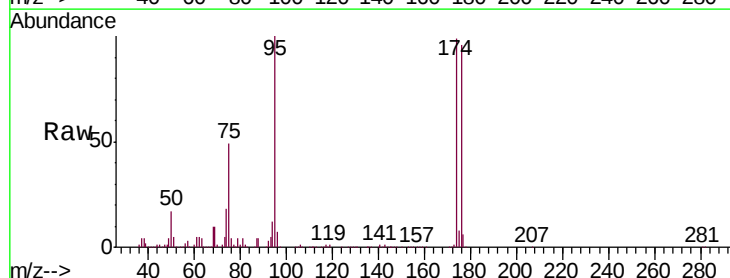
Tgt Ion: 95 Resp: 551046

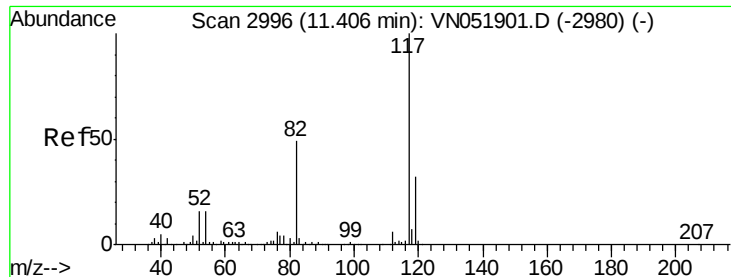
Ion Ratio Lower Upper

95 100

174 98.9 0.0 195.0

176 94.9 0.0 191.4

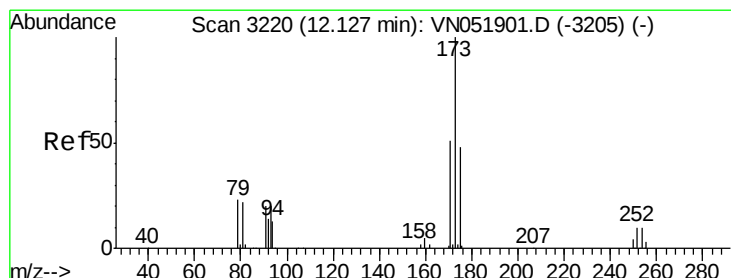
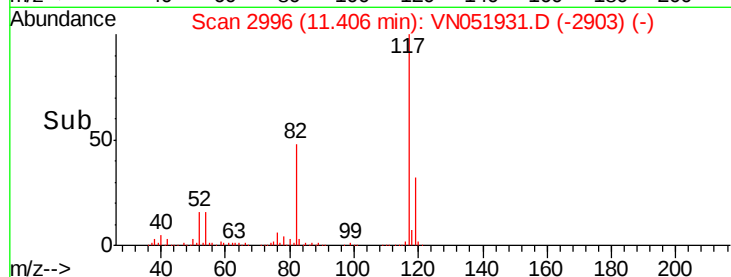
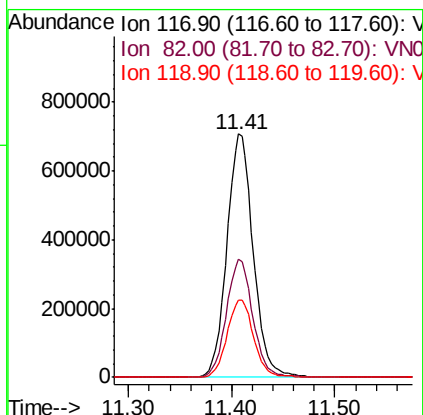
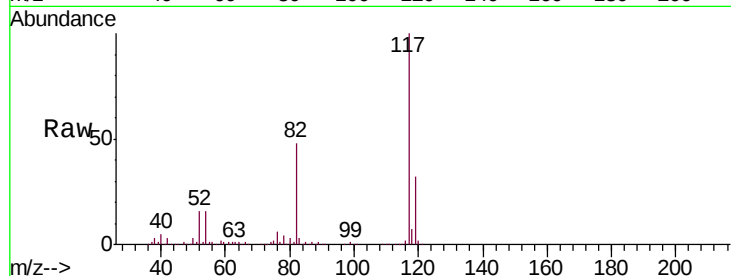




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051931.D
Acq: 18 Oct 2018 21:48

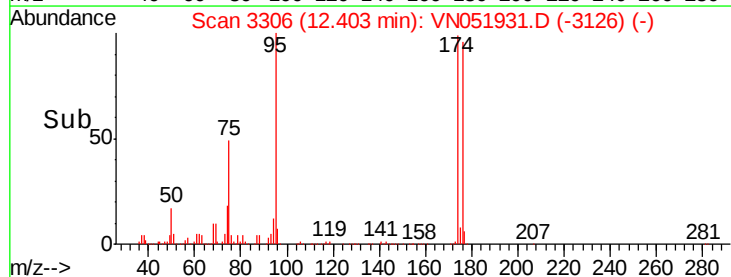
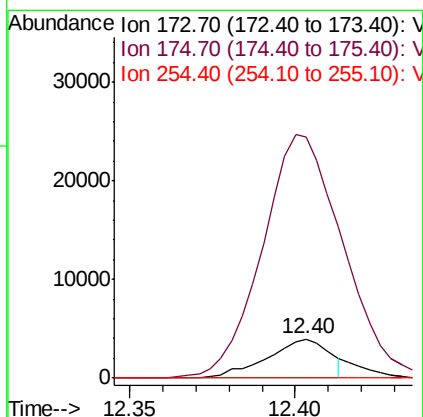
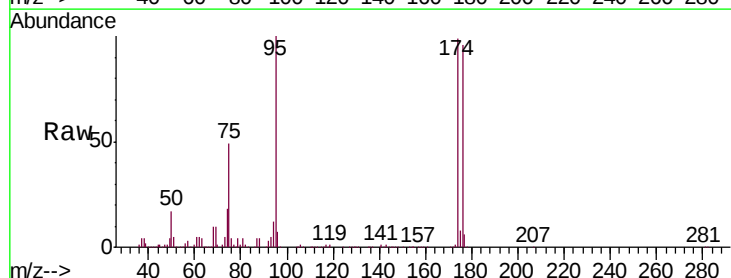
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#01

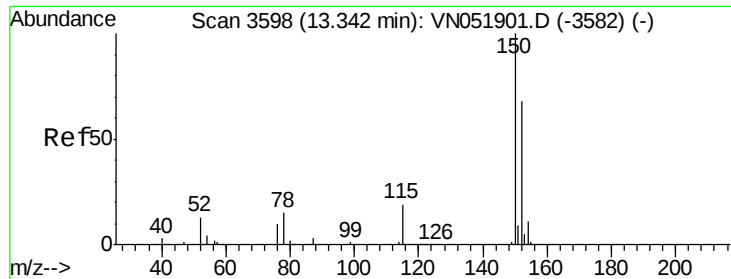
Tgt Ion:117 Resp: 1257929
Ion Ratio Lower Upper
117 100
82 48.3 38.9 58.3
119 31.6 25.9 38.9



#71
Bromoform
Concen: 3.922 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051931.D
Acq: 18 Oct 2018 21:48

Tgt Ion:173 Resp: 5180
Ion Ratio Lower Upper
173 100
175 682.4 24.0 72.0#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#01

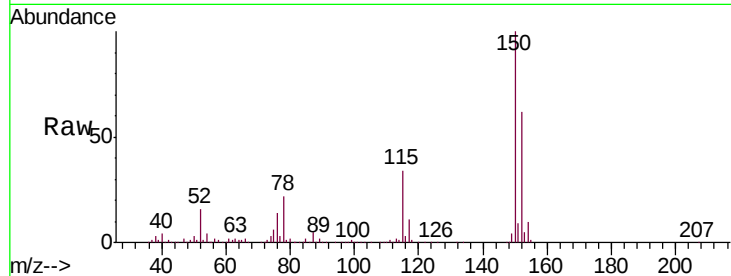
Tgt Ion:152 Resp: 451310

Ion Ratio Lower Upper

152 100

115 54.4 26.7 80.1

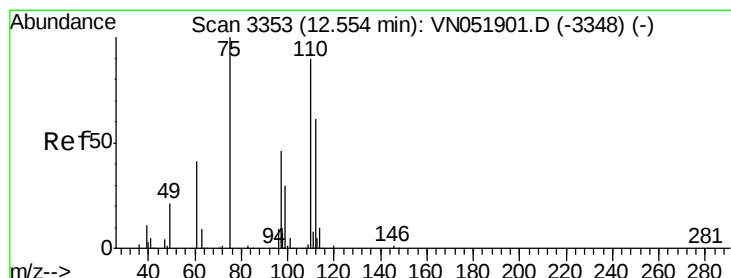
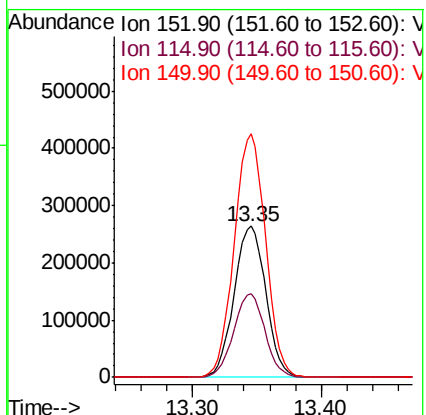
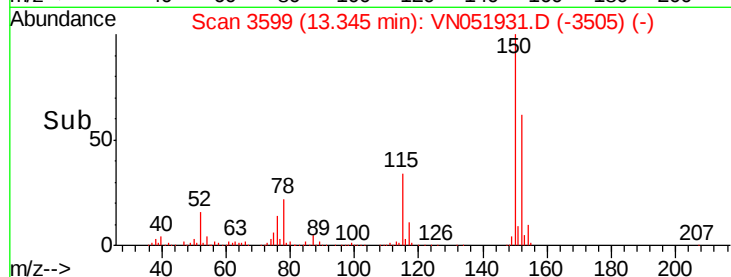
150 159.2 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 50.032 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051931.D

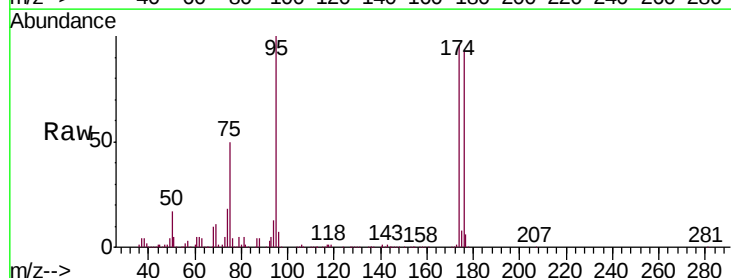
Acq: 18 Oct 2018 21:48

Tgt Ion: 75 Resp: 274445

Ion Ratio Lower Upper

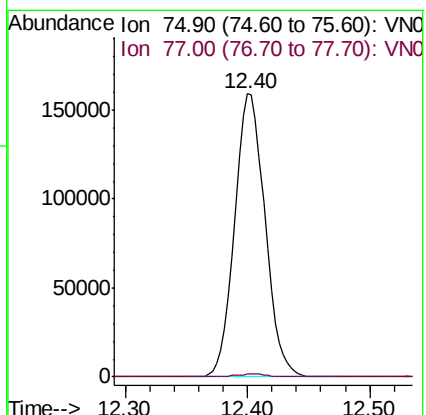
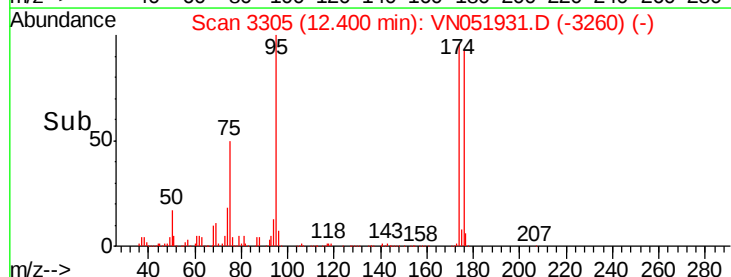
75 100

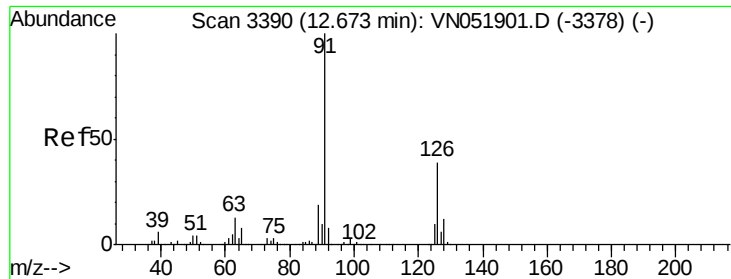
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

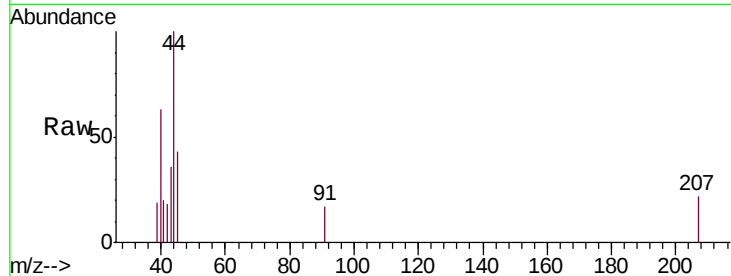
PB113908ZHE#01

Tgt Ion: 91 Resp: 94

Ion Ratio Lower Upper

91 100

126 0.0 19.6 58.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.67

150

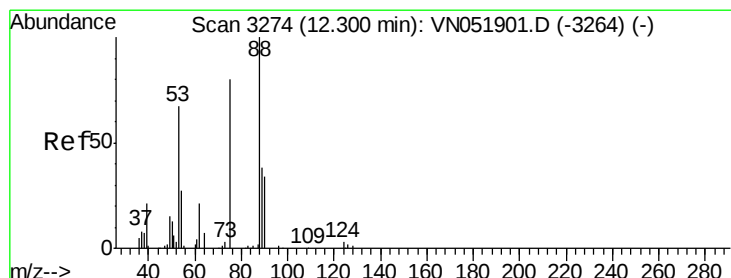
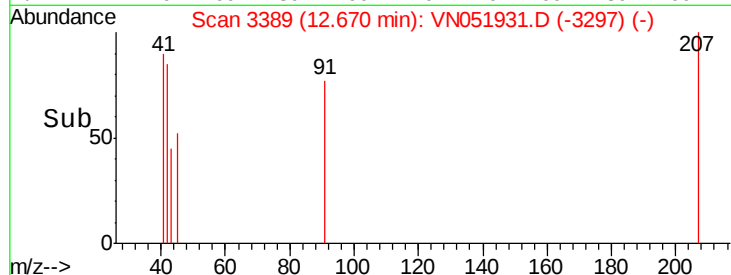
100

50

0

Time-->

12.66 12.67 12.68



#81

trans-1,4-Dichloro-2-butene

Concen: 164.415 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

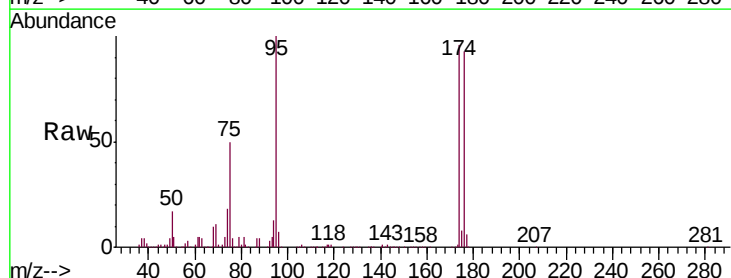
Tgt Ion: 75 Resp: 274445

Ion Ratio Lower Upper

75 100

53 0.1 68.5 102.7#

89 0.0 39.0 58.6#



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

200000

150000

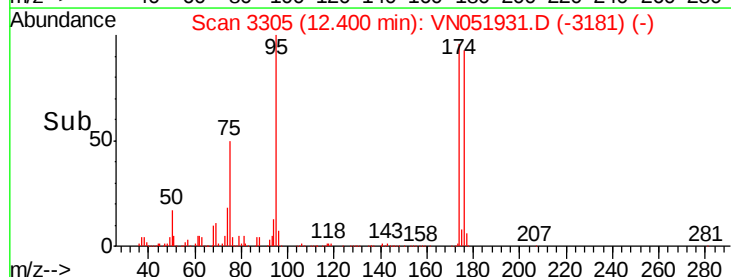
100000

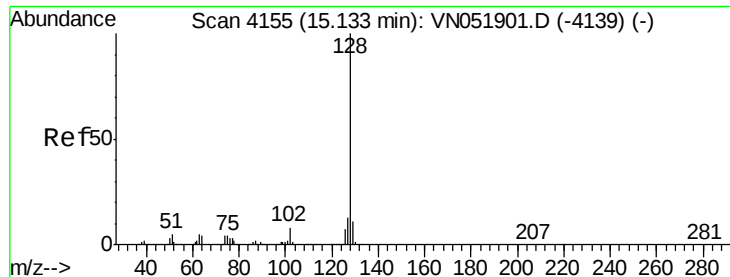
50000

0

Time-->

12.30 12.40 12.50





#95

Naphthalene

Concen: 4.091 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051931.D

Acq: 18 Oct 2018 21:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#01

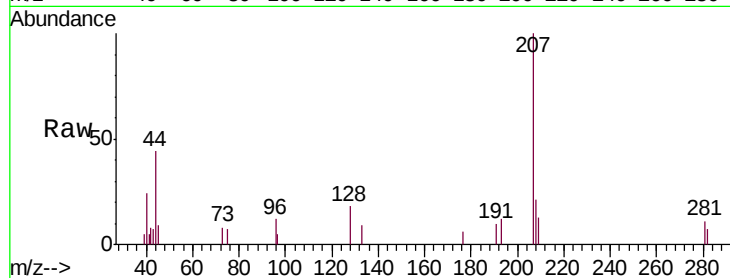
Tgt Ion:128 Resp: 475

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.5 12.7#



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

