

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110918\
 Data File : VN052237.D
 Acq On : 9 Nov 2018 19:48
 Operator : MD\SY
 Sample : J5897-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 FERMENTATION-WASTE

Quant Time: Nov 12 03:24:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

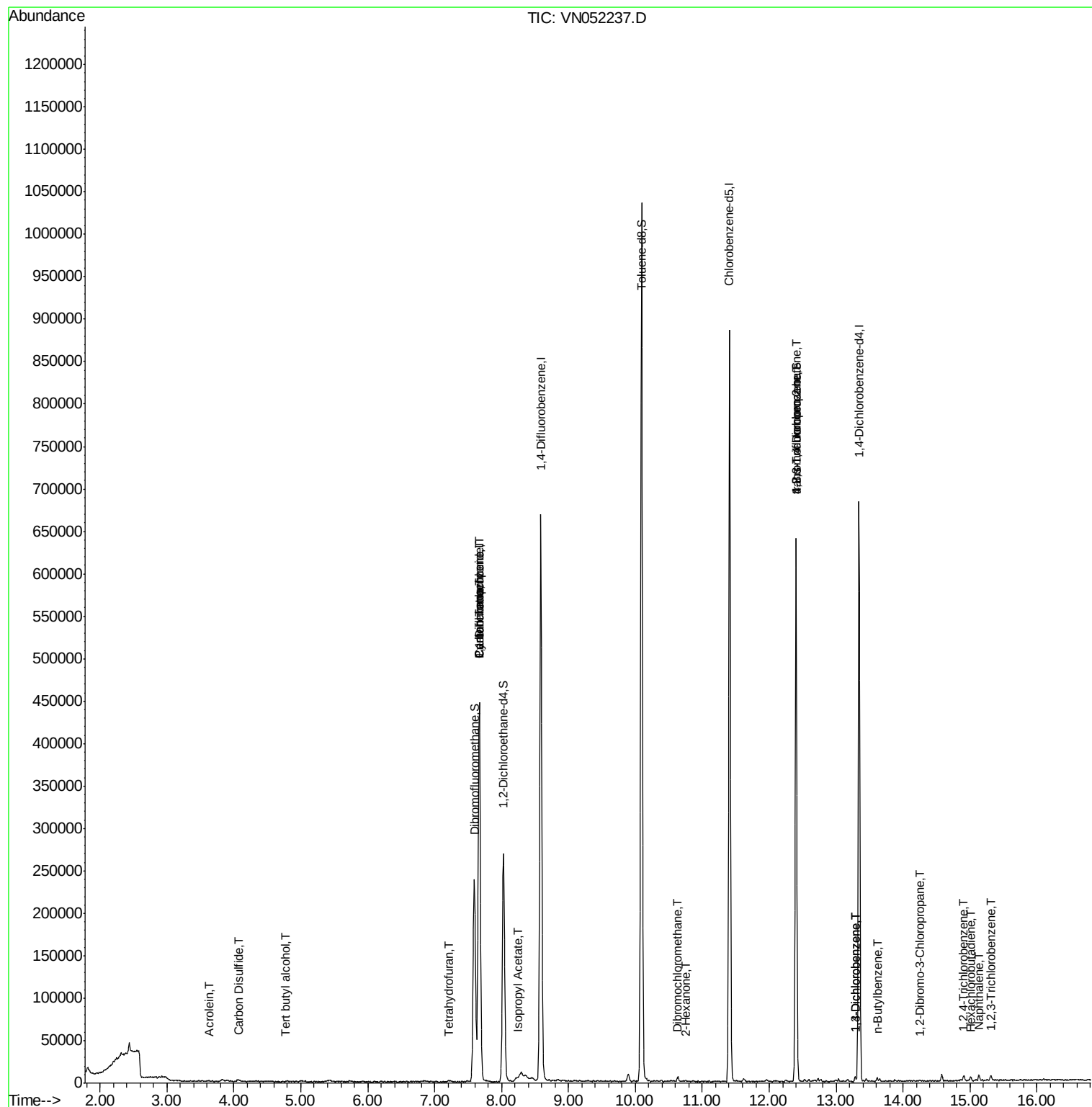
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	345016	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	571411	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474622	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167394	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	219021	46.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.84%	
35) Dibromofluoromethane	7.59	113	178916	48.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.68%	
50) Toluene-d8	10.09	98	697726	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
62) 4-Bromofluorobenzene	12.40	95	201684	43.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.10%	
Target Compounds				Qvalue		
11) Tert butyl alcohol	4.77	59	439	1.815	ug/l #	71
13) Acrolein	3.62	56	331	34.861	ug/l #	47
16) Acetone	3.82	43	4668	Below Cal		96
17) Carbon Disulfide	4.07	76	4038	0.386	ug/l #	75
29) Tetrahydrofuran	7.21	42	499	0.381	ug/l #	62
31) Cyclohexane	7.67	56	9520	0.624	ug/l #	23
36) 1,1-Dichloropropene	7.66	75	30371	5.266	ug/l #	51
38) Carbon Tetrachloride	7.67	117	35658	6.822	ug/l #	16
43) Isopropyl Acetate	8.24	43	5247	0.694	ug/l #	64
59) 2-Hexanone	10.76	43	853	0.291	ug/l #	29
60) Dibromochloromethane	10.63	129	1186	0.325	ug/l #	11
76) 1,2,3-Trichloropropane	12.40	75	111051	37.496	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	111051	127.992	ug/l #	8
87) 1,3-Dichlorobenzene	13.29	146	1415	0.254	ug/l	86
88) 1,4-Dichlorobenzene	13.29	146	1415	0.253	ug/l	85
89) n-Butylbenzene	13.61	91	2725	0.281	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	14.27	75	98	0.205	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	1860	0.864	ug/l	94
94) Hexachlorobutadiene	15.01	225	813	0.695	ug/l	93
95) Naphthalene	15.13	128	4706	0.887	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	1610	0.791	ug/l	83

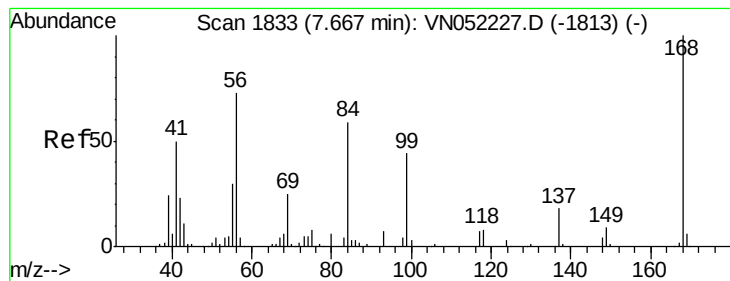
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 12 00:34:27 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: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

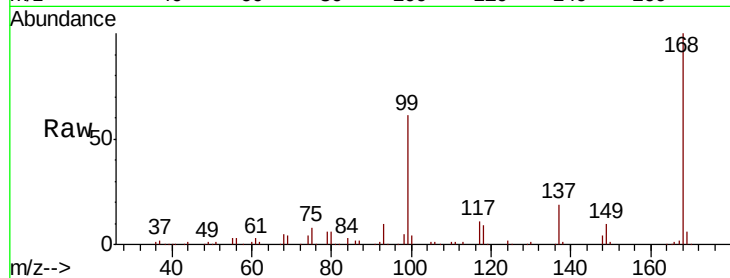
FERMENTATION-WASTE

Tot Ion:168 Resp: 345016

Ion Ratio Lower Upper

168 100

99 60.6 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

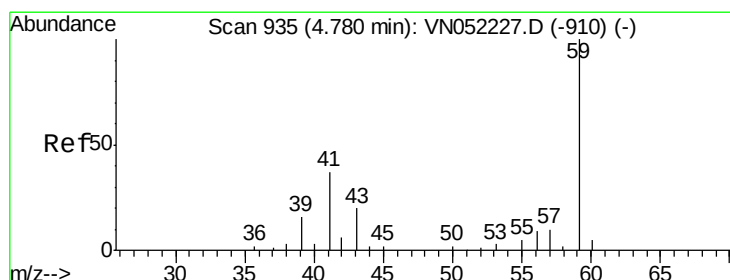
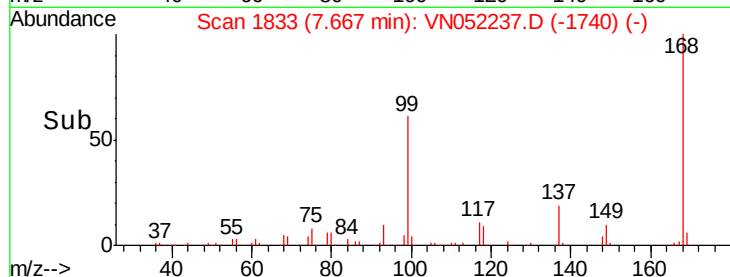
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 1.815 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.01 min

Lab File: VN052237.D

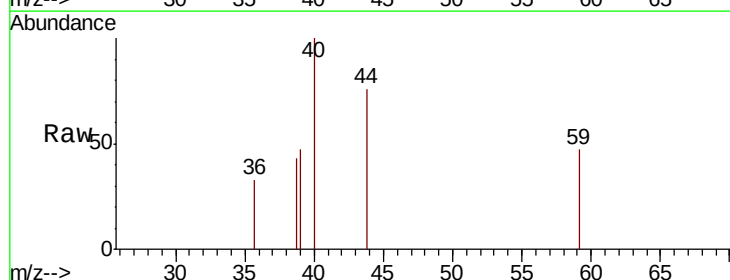
Acq: 9 Nov 2018 19:48

Tgt Ion: 59 Resp: 439

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.77

400

300

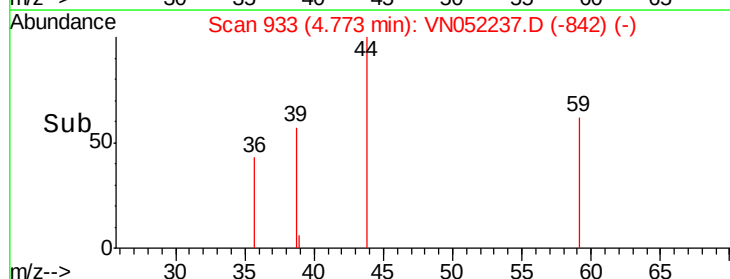
200

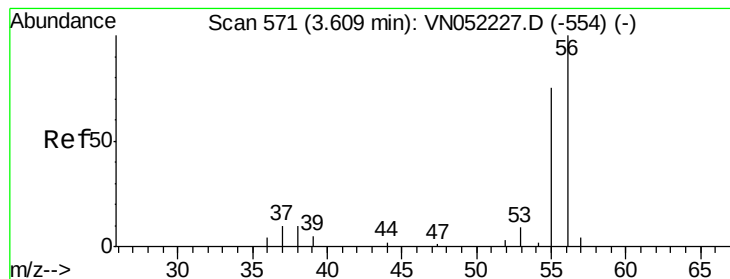
100

0

4.74 4.76 4.78 4.80

Time-->





#13

Acrolein

Concen: 34.861 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

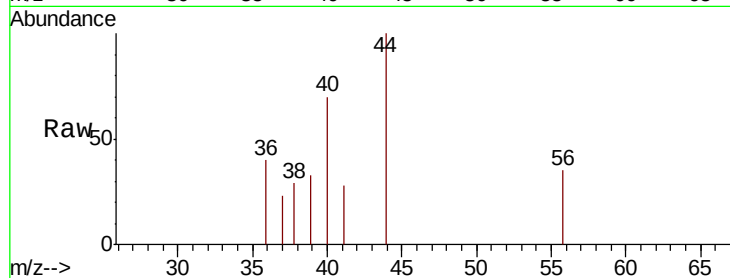
FERMENTATION-WASTE

Tot Ion: 56 Resp: 331

Ion Ratio Lower Upper

56 100

55 29.9 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

250

200

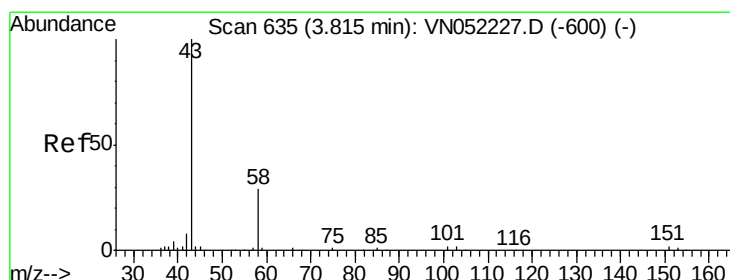
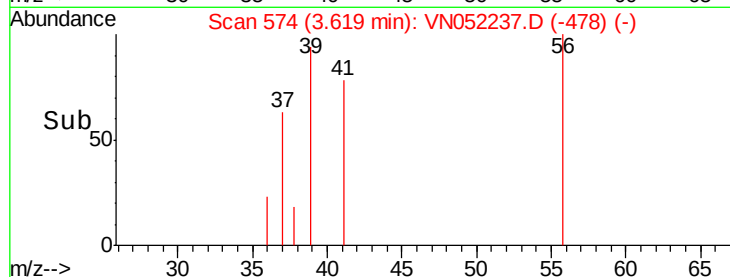
150

100

50

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052237.D

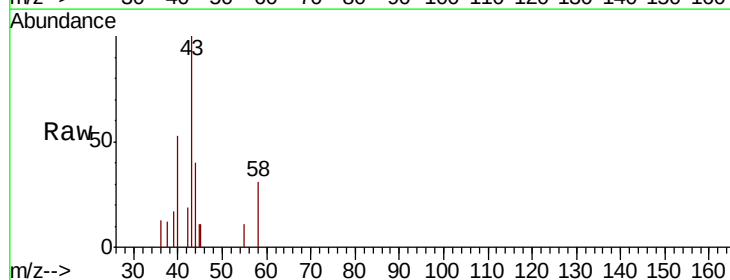
Acq: 9 Nov 2018 19:48

Tgt Ion: 43 Resp: 4668

Ion Ratio Lower Upper

43 100

58 30.8 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

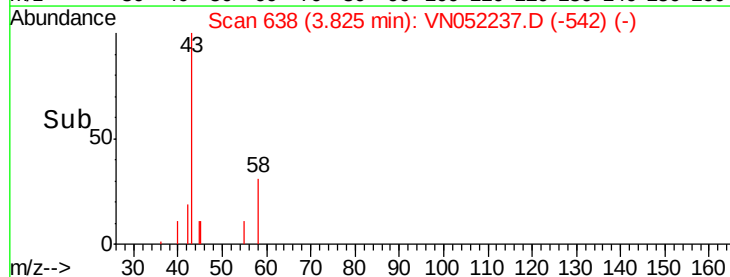
1500

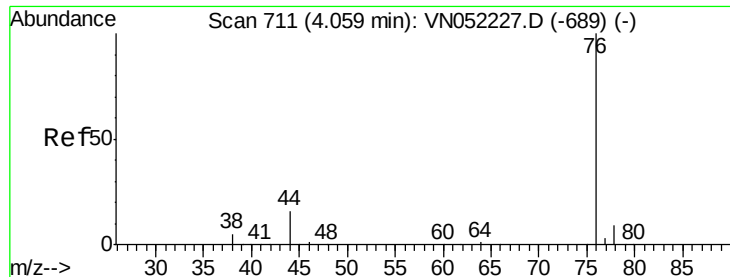
1000

500

0

Time-->

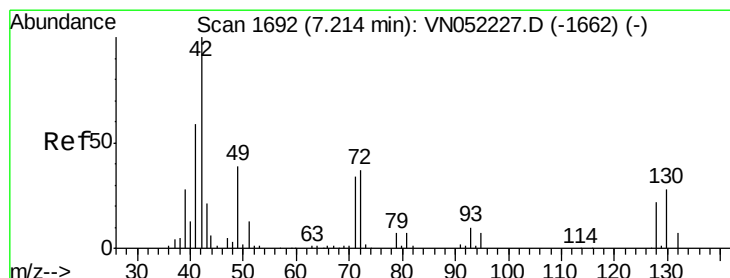
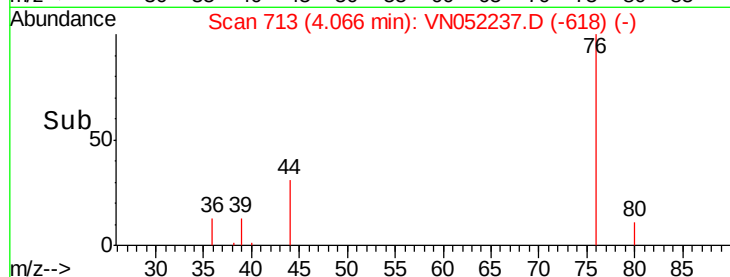
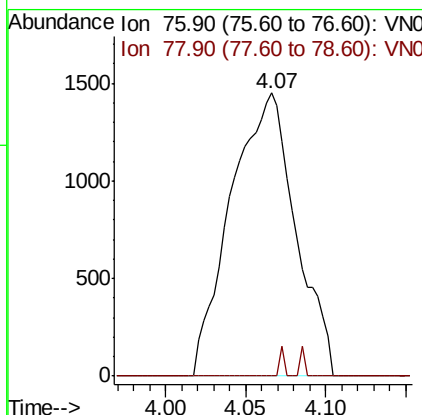
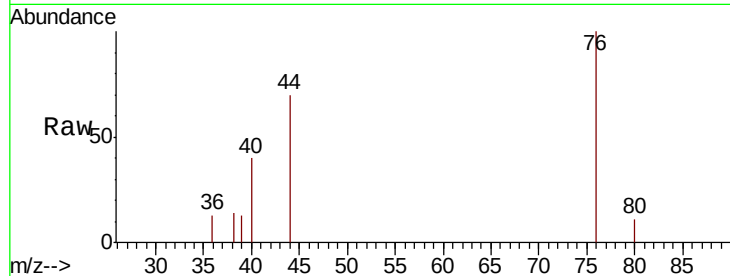




#17
Carbon Disulfide
Concen: 0.386 ug/l
RT: 4.07 min Scan# 713
Delta R.T. 0.01 min
Lab File: VN052237.D
Acq: 9 Nov 2018 19:48

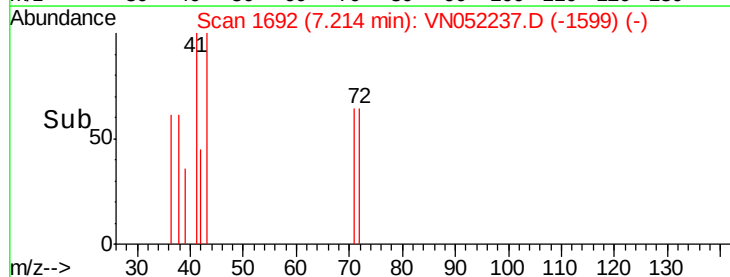
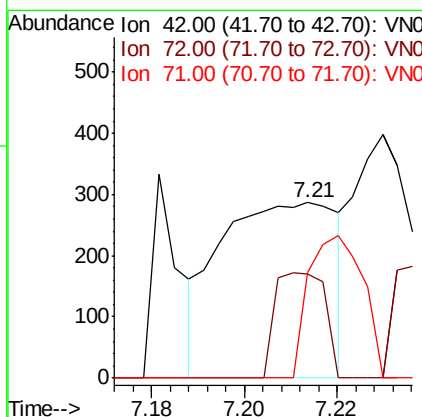
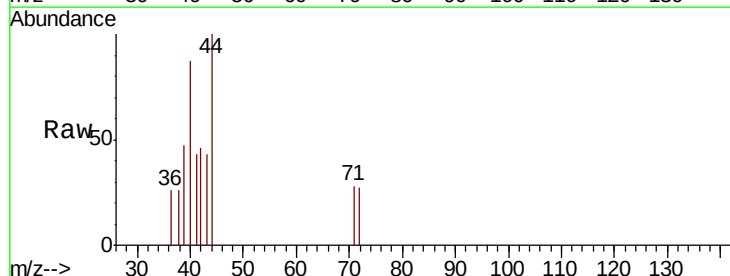
Instrument :
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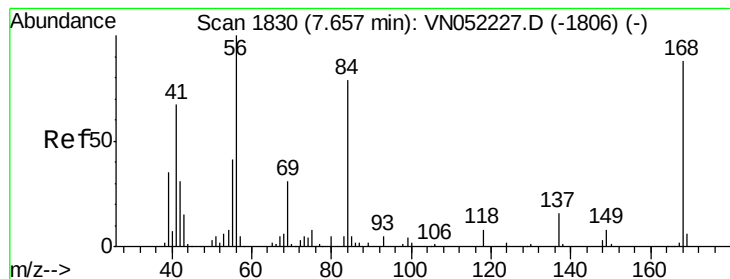
Tot Ion: 76 Resp: 4038
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#29
Tetrahydrofuran
Concen: 0.381 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052237.D
Acq: 9 Nov 2018 19:48

Tgt Ion: 42 Resp: 499
Ion Ratio Lower Upper
42 100
72 25.7 28.6 43.0#
71 0.0 27.1 40.7#





#31

Cyclohexane

Concen: 0.624 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

FERMENTATION-WASTE

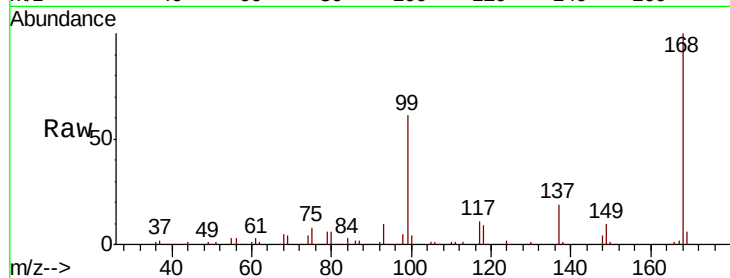
Tot Ion: 56 Resp: 9520

Ion Ratio Lower Upper

56 100

69 132.3 24.8 37.2#

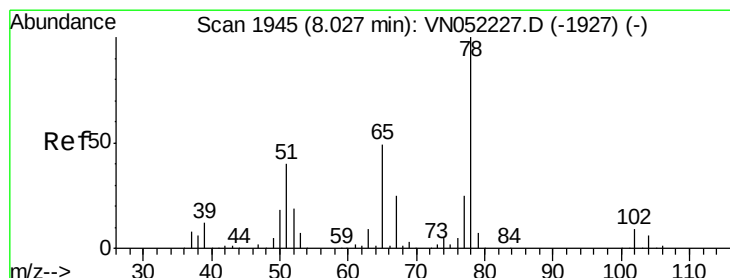
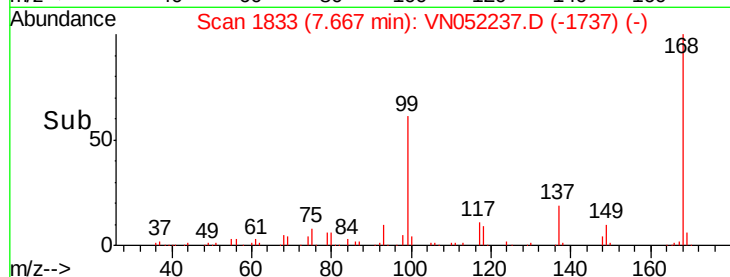
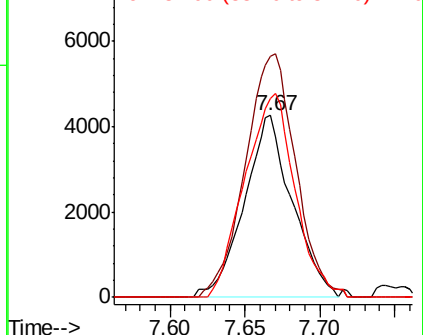
84 109.7 63.1 94.7#



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: VN052237.D

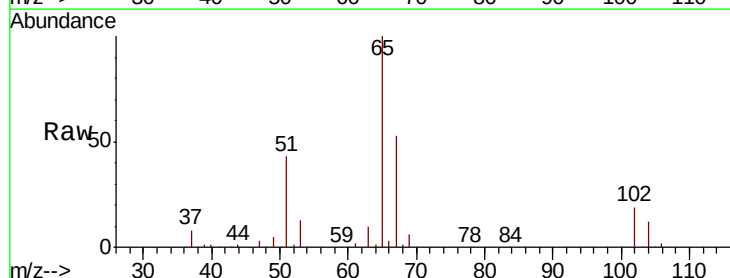
Acq: 9 Nov 2018 19:48

Tgt Ion: 65 Resp: 219021

Ion Ratio Lower Upper

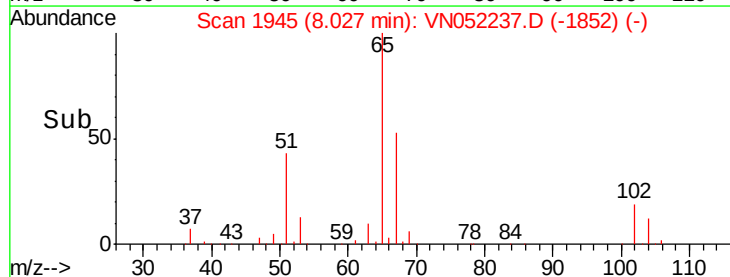
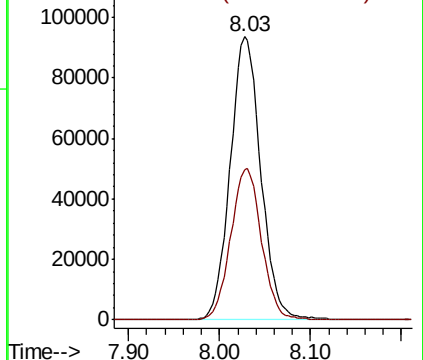
65 100

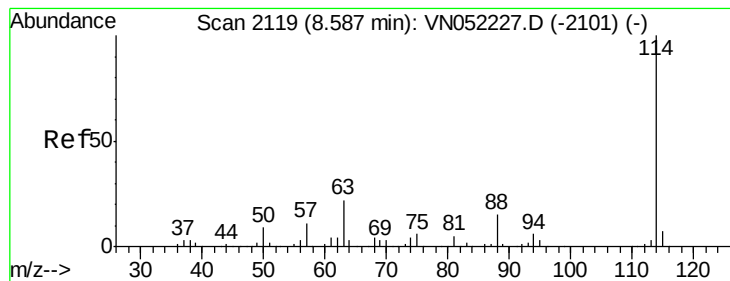
67 53.7 0.0 106.6



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# 2119

Delta R.T. 0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

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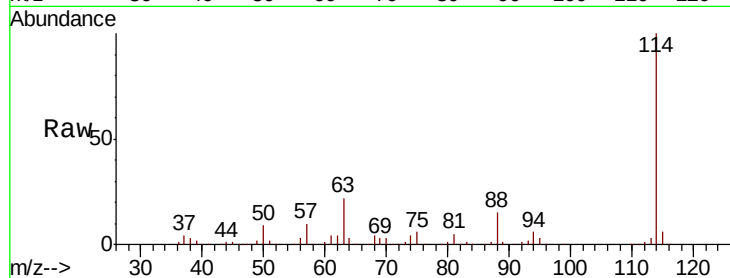
Tot Ion:114 Resp: 571411

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.4

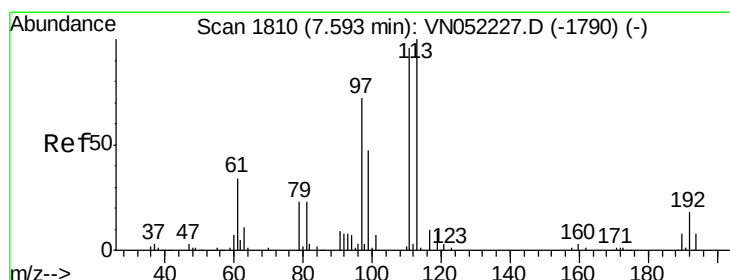
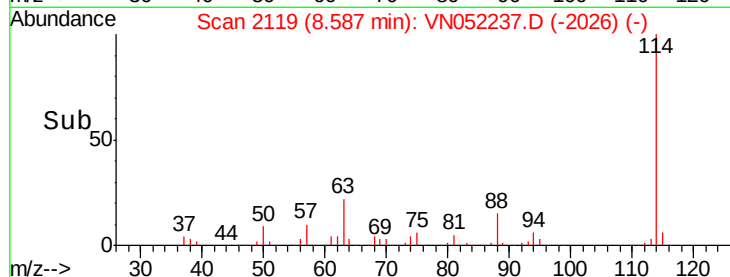
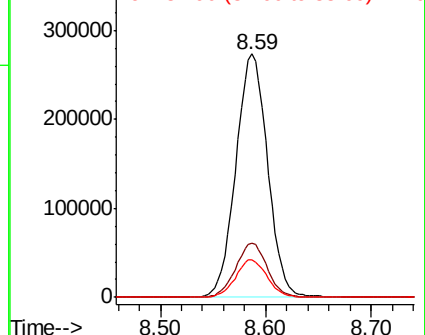
88 15.3 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

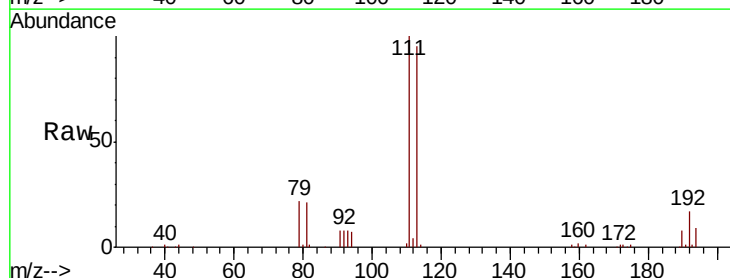
Tgt Ion:113 Resp: 178916

Ion Ratio Lower Upper

113 100

111 104.0 80.2 120.4

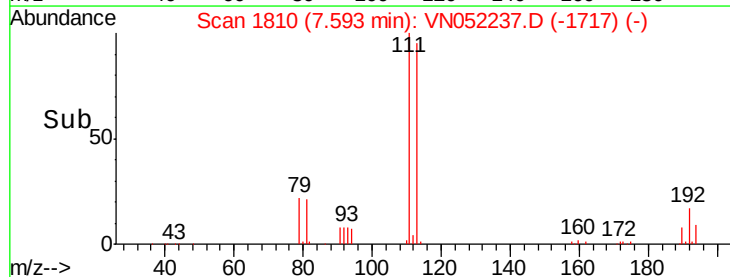
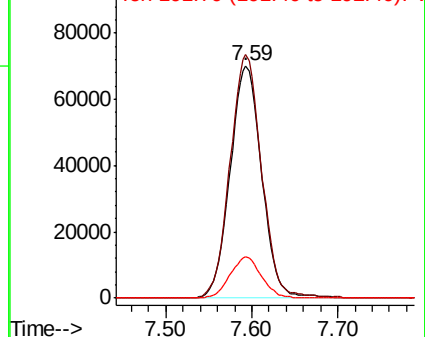
192 17.7 14.1 21.1

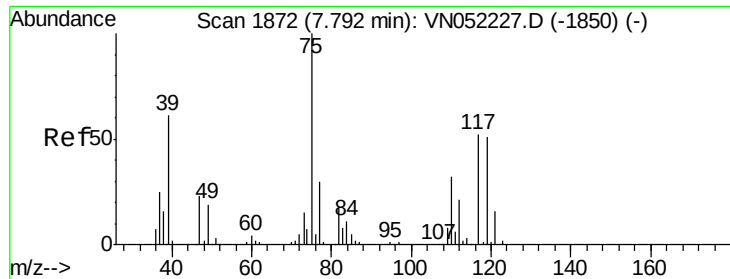


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

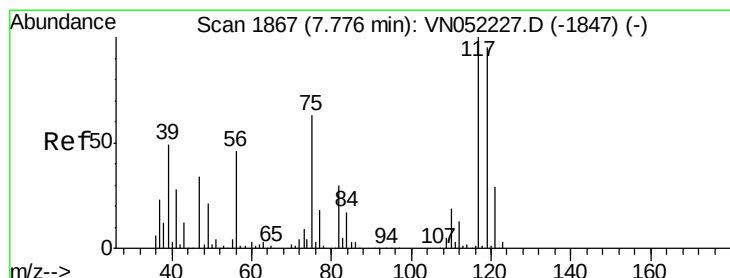
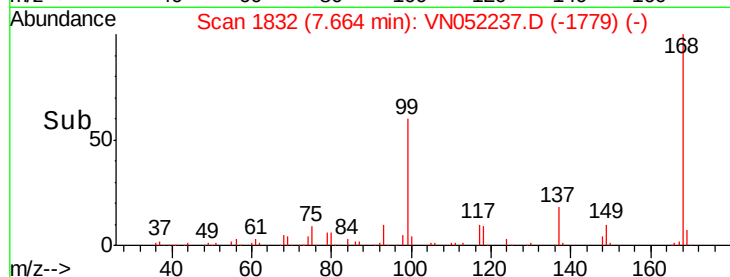
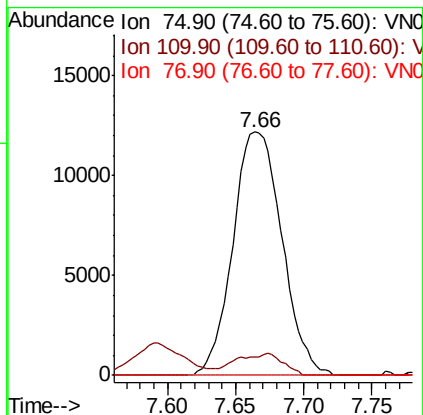
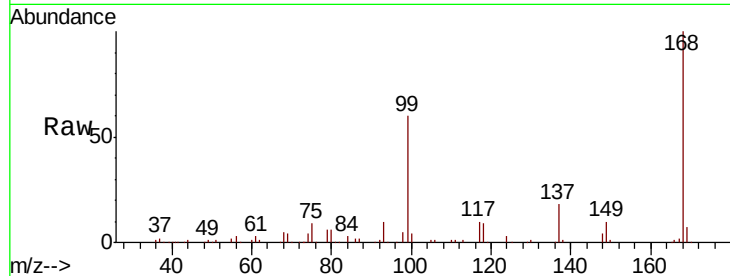




#36
 1,1-Dichloropropene
 Concen: 5.266 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052237.D
 Acq: 9 Nov 2018 19:48

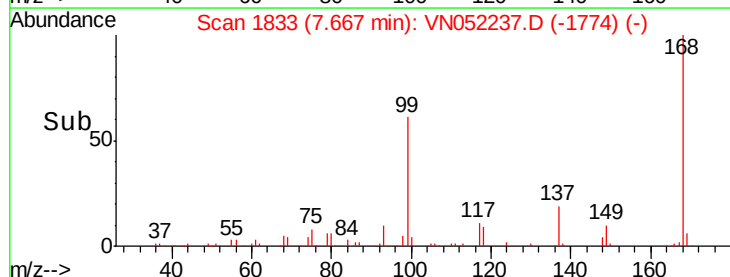
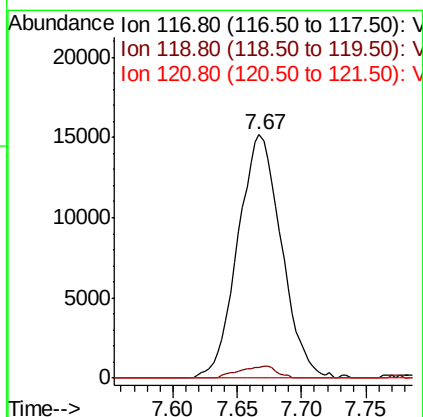
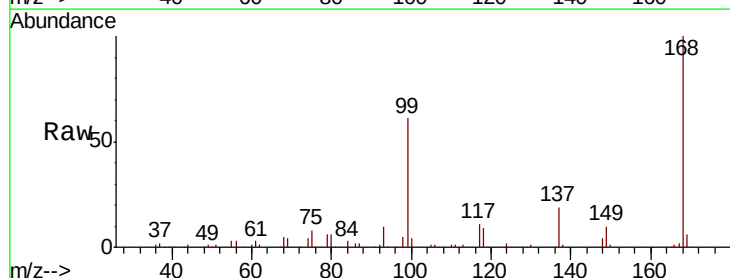
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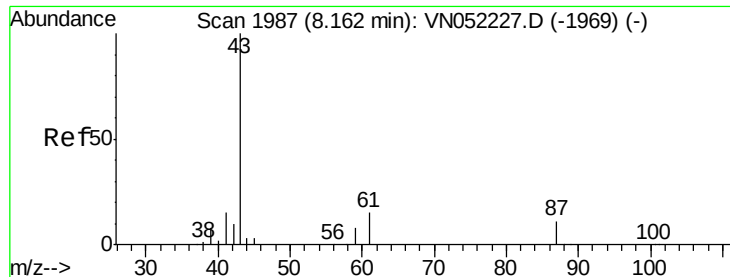
Tot Ion: 75 Resp: 30371
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.4 49.4#
 77 0.0 23.9 35.9#



#38
 Carbon Tetrachloride
 Concen: 6.822 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052237.D
 Acq: 9 Nov 2018 19:48

Tgt Ion: 117 Resp: 35658
 Ion Ratio Lower Upper
 117 100
 119 4.5 75.8 113.8#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 0.694 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.08 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

FERMENTATION-WASTE

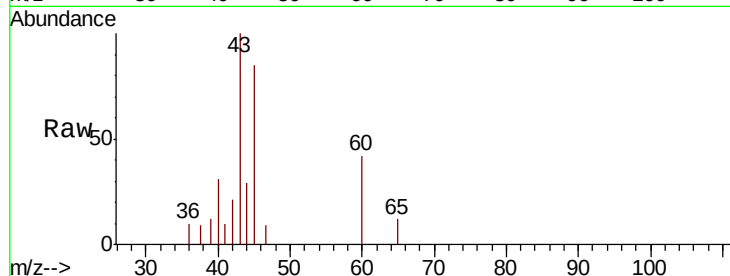
Tot Ion: 43 Resp: 5247

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

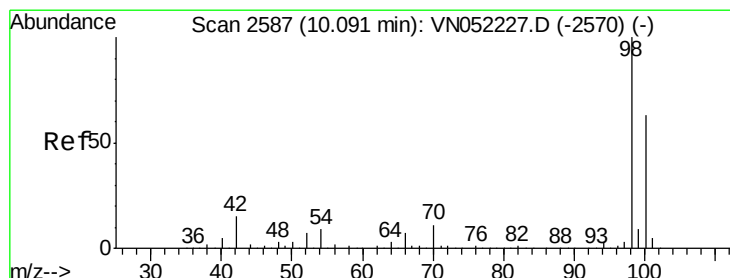
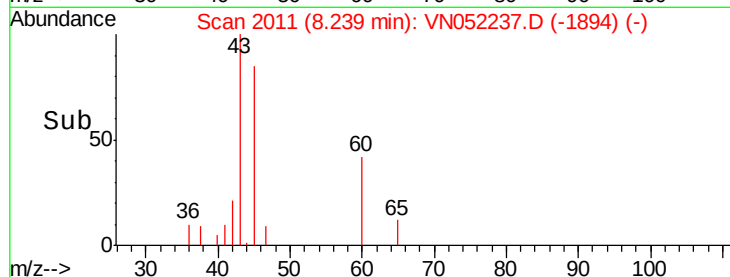
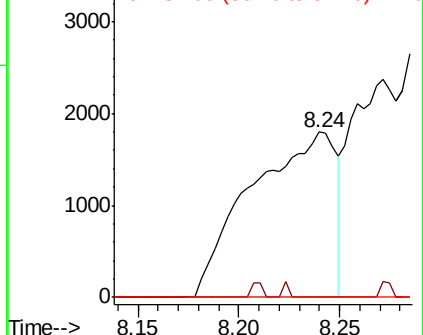
87 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052237.D

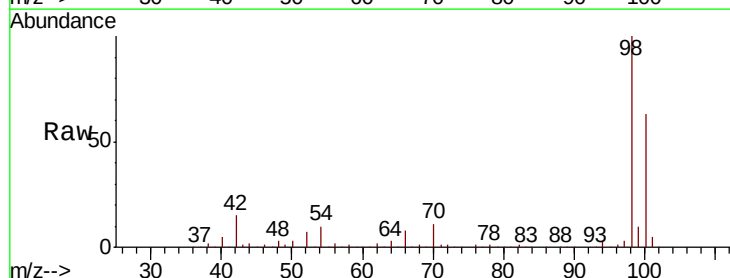
Acq: 9 Nov 2018 19:48

Tgt Ion: 98 Resp: 697726

Ion Ratio Lower Upper

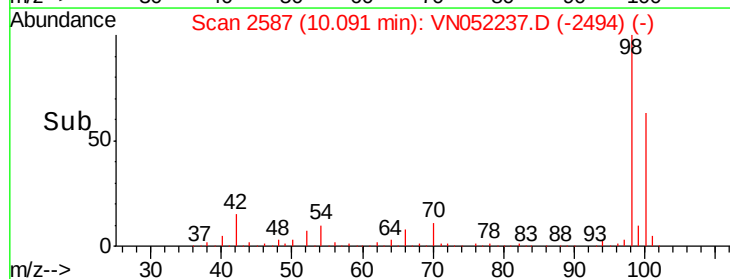
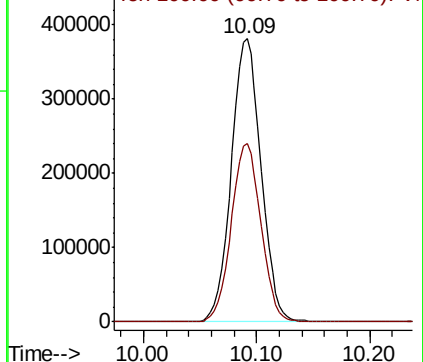
98 100

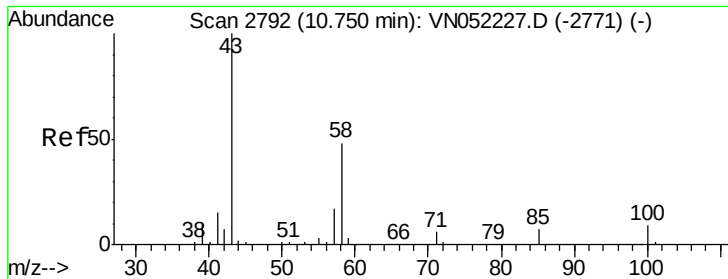
100 62.9 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#59

2-Hexanone

Concen: 0.291 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

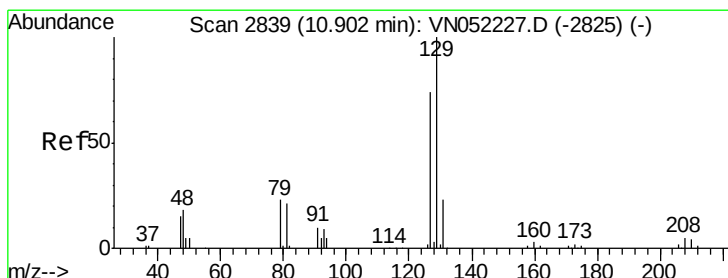
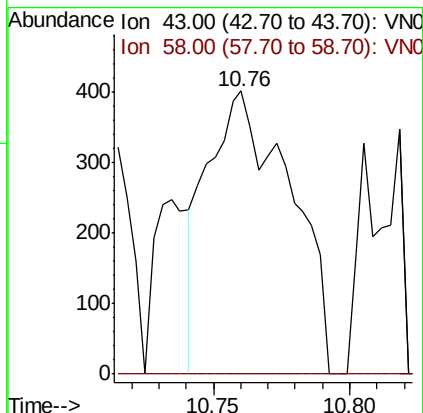
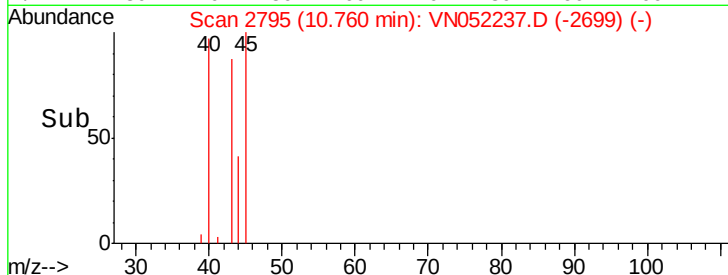
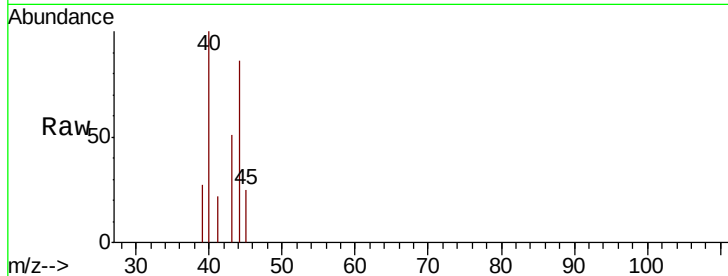
FERMENTATION-WASTE

Tot Ion: 43 Resp: 853

Ion Ratio Lower Upper

43 100

58 0.0 24.1 72.3#



#60

Dibromochloromethane

Concen: 0.325 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN052237.D

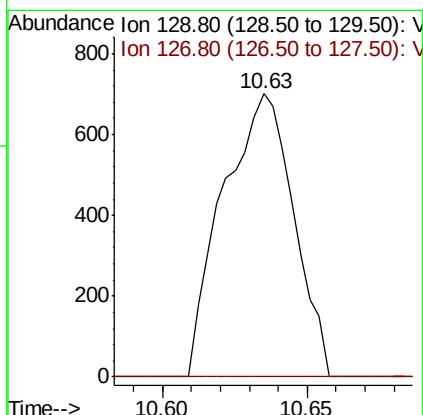
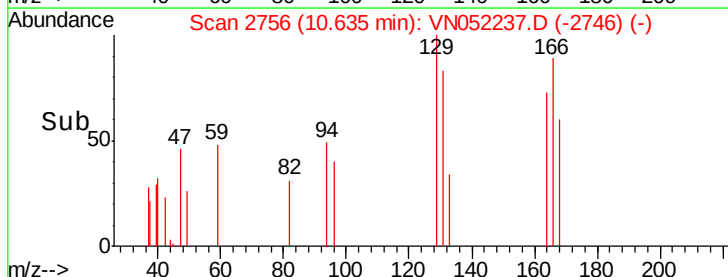
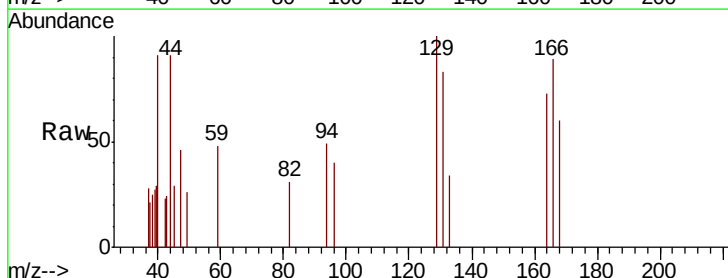
Acq: 9 Nov 2018 19:48

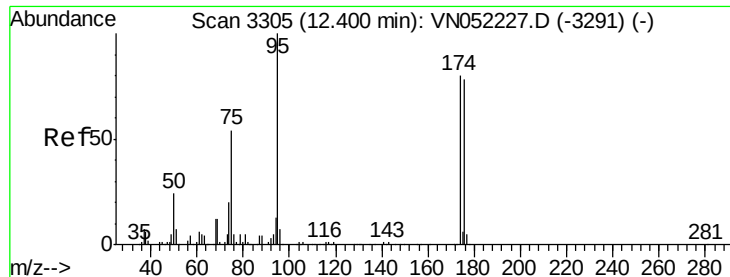
Tgt Ion: 129 Resp: 1186

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.1#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

FERMENTATION-WASTE

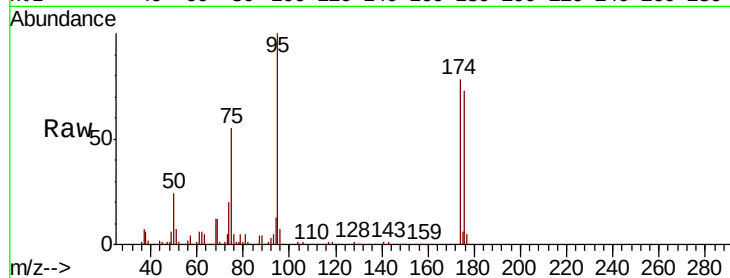
Tot Ion: 95 Resp: 201684

Ion Ratio Lower Upper

95 100

174 79.1 0.0 159.4

176 75.4 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN052227.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052227.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052227.D (-3291) (-)

12.40

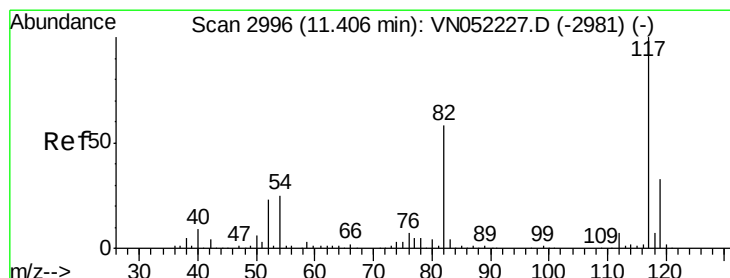
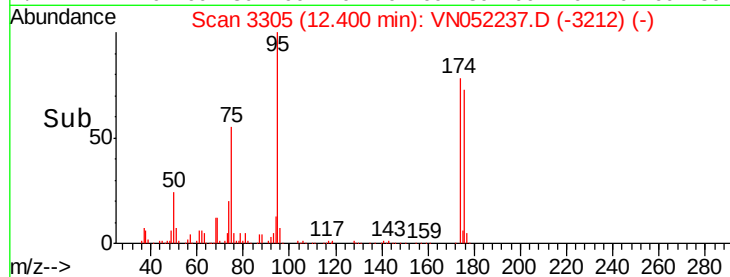
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

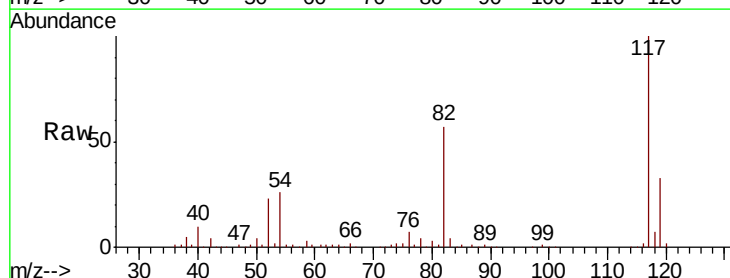
Tgt Ion: 117 Resp: 474622

Ion Ratio Lower Upper

117 100

82 57.2 46.2 69.2

119 32.5 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN052227.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052227.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052227.D (-2981) (-)

11.41

300000

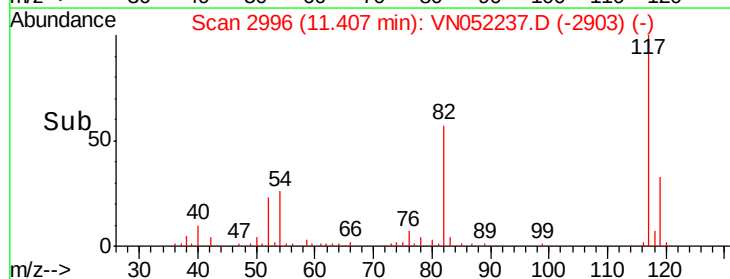
200000

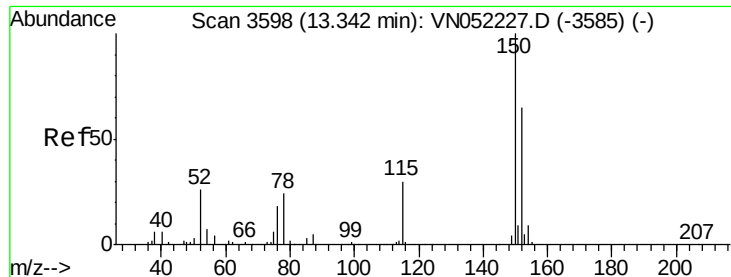
100000

0

11.40 11.50

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

FERMENTATION-WASTE

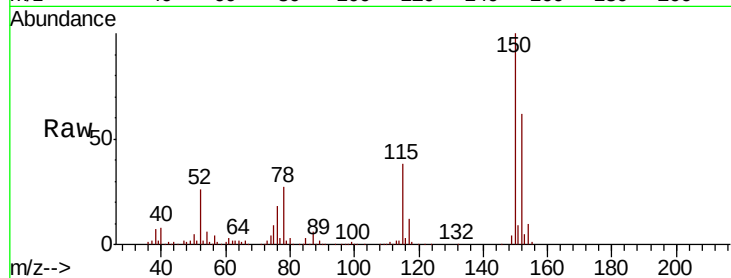
Tot Ion:152 Resp: 167394

Ion Ratio Lower Upper

152 100

115 59.7 29.8 89.5

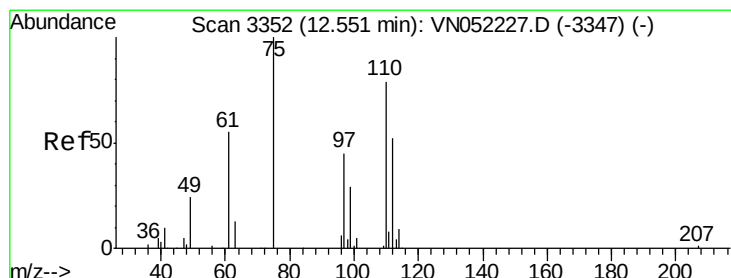
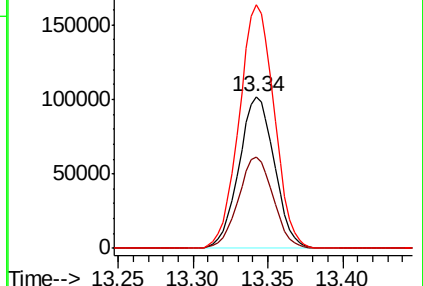
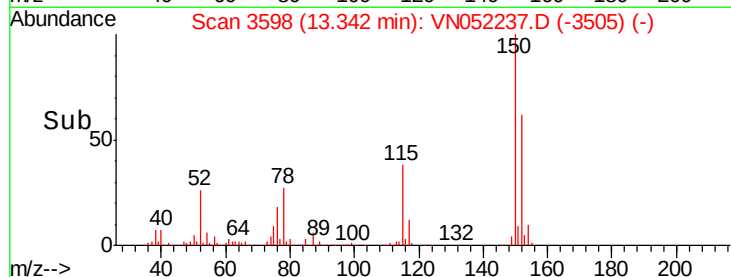
150 159.2 0.0 350.2



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: 37.496 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052237.D

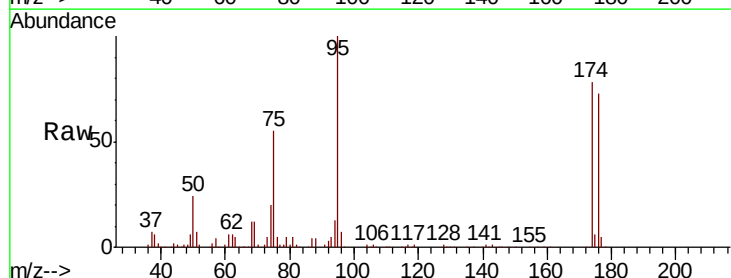
Acq: 9 Nov 2018 19:48

Tgt Ion: 75 Resp: 111051

Ion Ratio Lower Upper

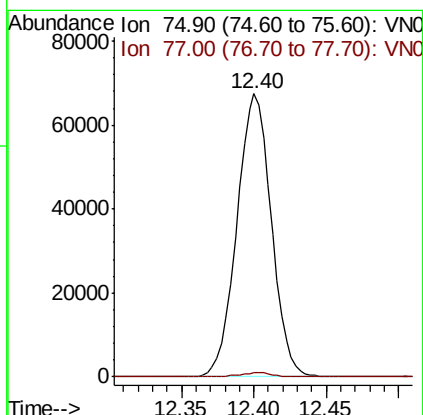
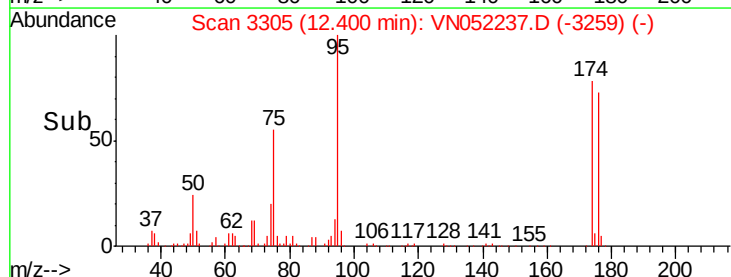
75 100

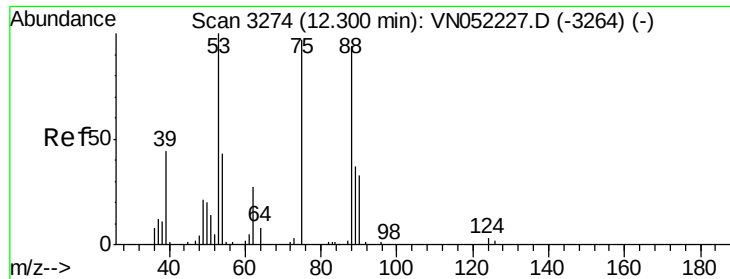
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 127.992 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

FERMENTATION-WASTE

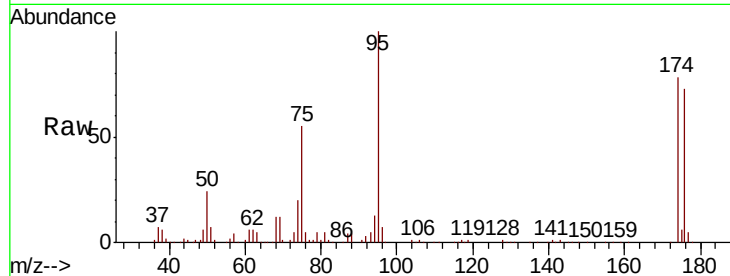
Tot Ion: 75 Resp: 111051

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

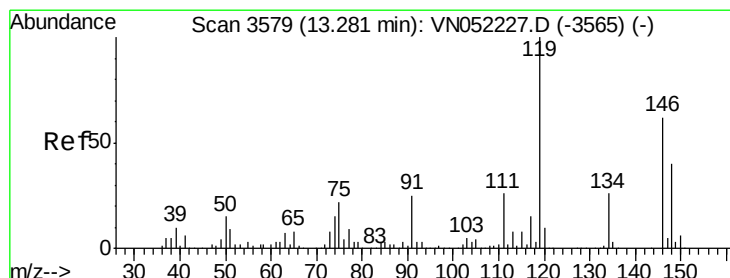
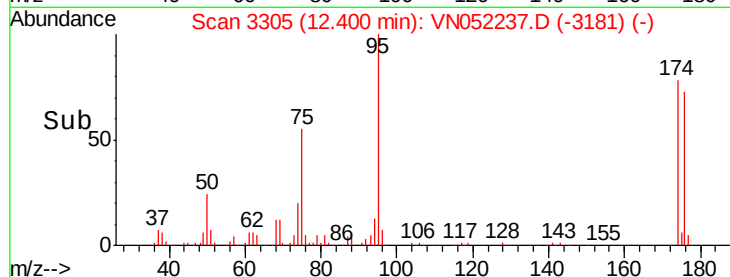
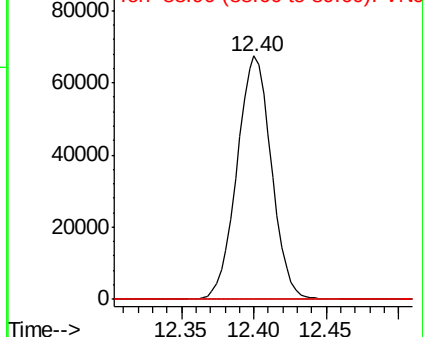
89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052227.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052227.D (-3264) (-)



#87

1,3-Dichlorobenzene

Concen: 0.254 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.01 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

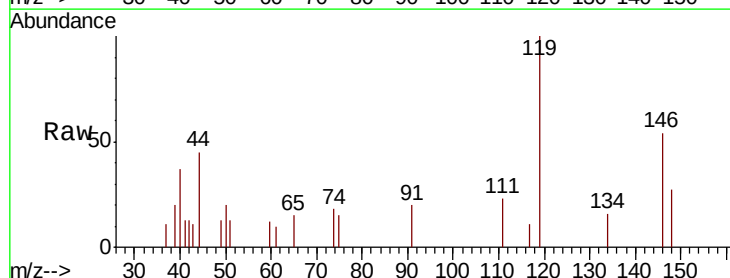
Tgt Ion: 146 Resp: 1415

Ion Ratio Lower Upper

146 100

111 27.8 20.1 60.3

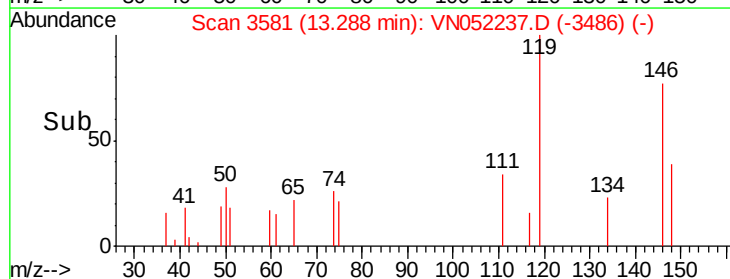
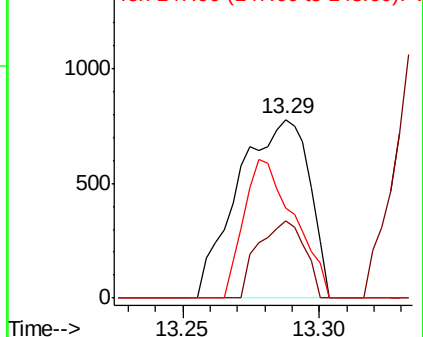
148 54.7 31.6 94.7

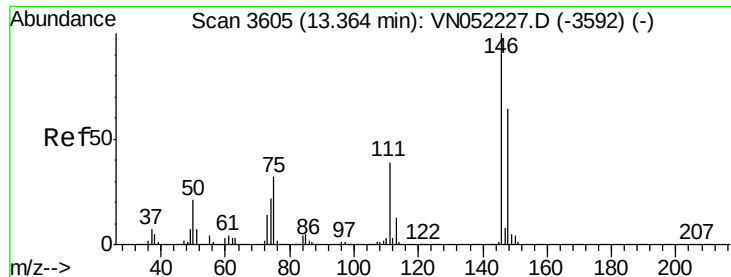


Abundance Ion 145.90 (145.60 to 146.60): VN052227.D (-3565) (-)

Ion 110.90 (110.60 to 111.60): VN052227.D (-3565) (-)

Ion 147.90 (147.60 to 148.60): VN052227.D (-3565) (-)





#88

1,4-Dichlorobenzene

Concen: 0.253 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.08 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

FERMENTATION-WASTE

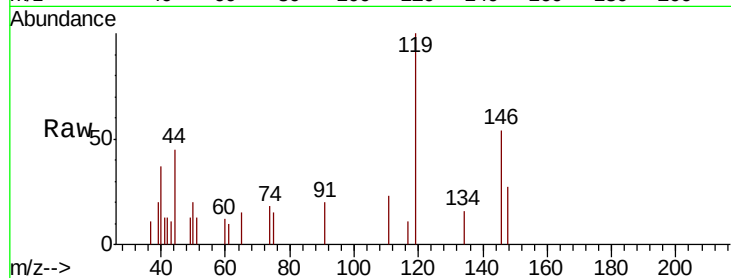
Tot Ion:146 Resp: 1415

Ion Ratio Lower Upper

146 100

111 27.8 20.2 60.6

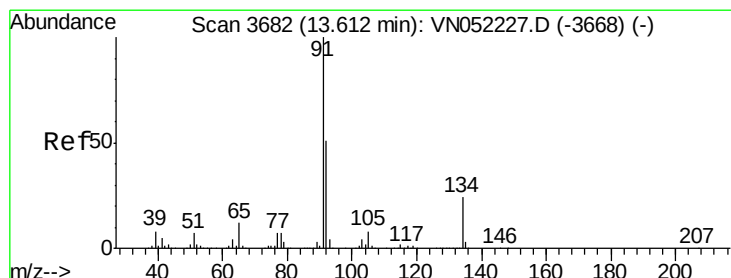
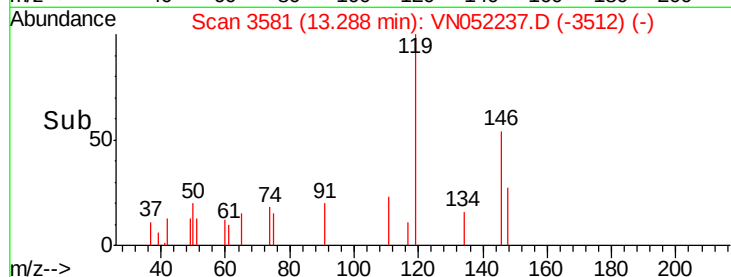
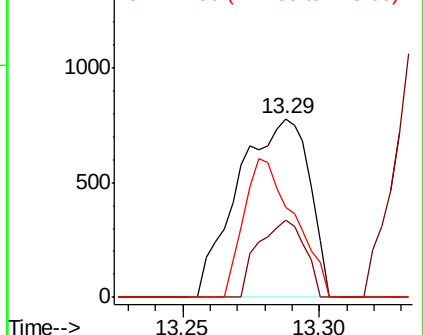
148 54.7 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.281 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

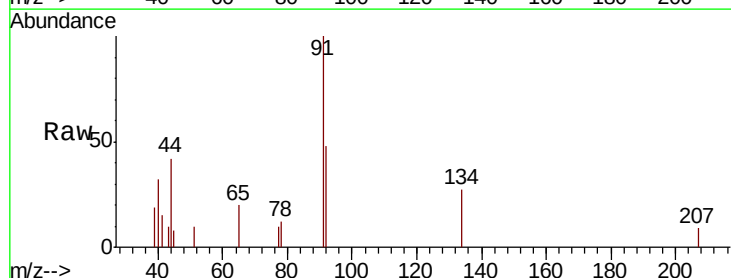
Tgt Ion: 91 Resp: 2725

Ion Ratio Lower Upper

91 100

92 45.9 25.1 75.3

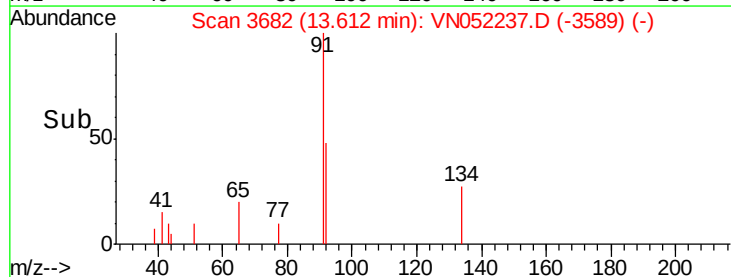
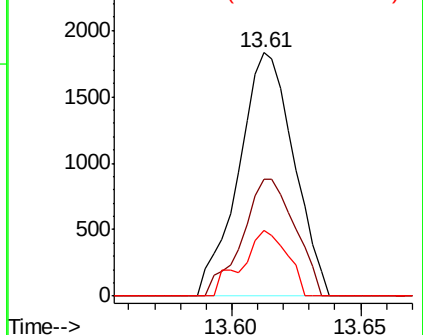
134 22.0 12.0 36.1

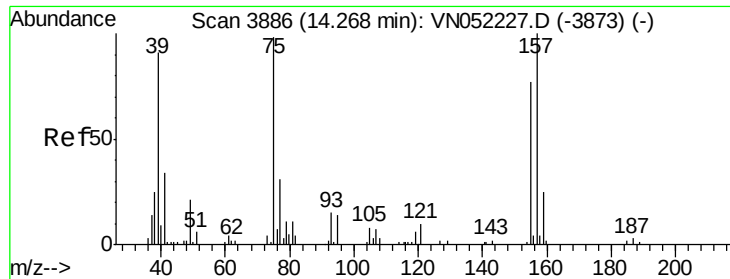


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

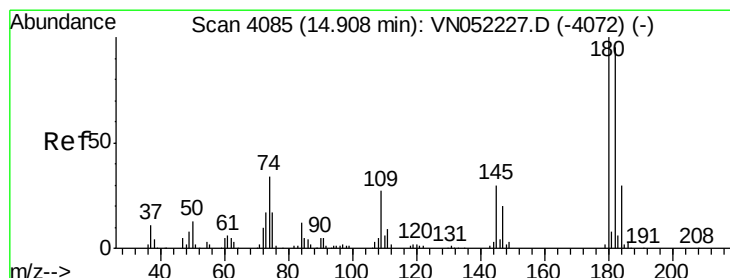
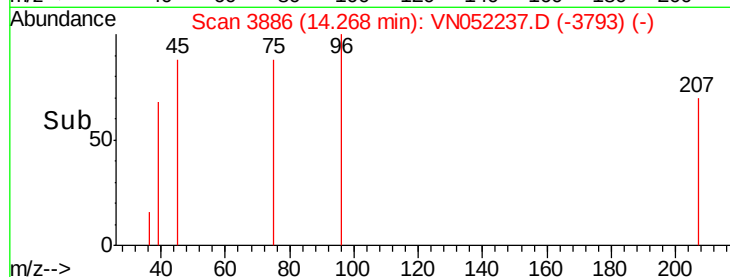
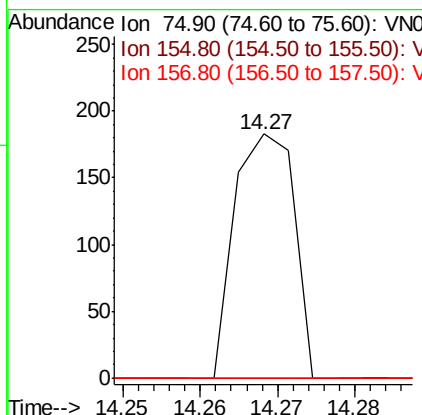
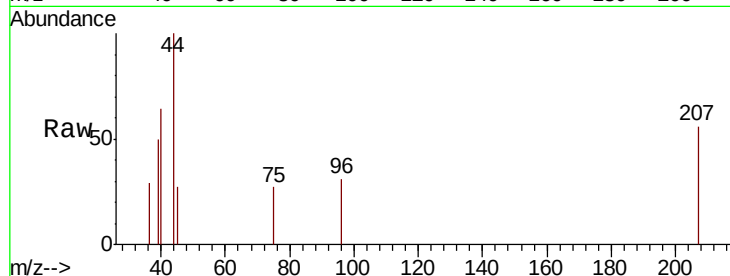




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.205 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN052237.D
 Acq: 9 Nov 2018 19:48

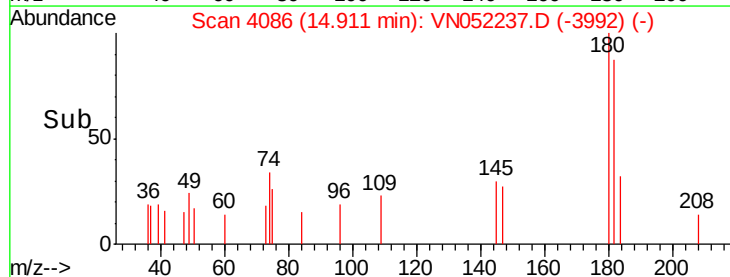
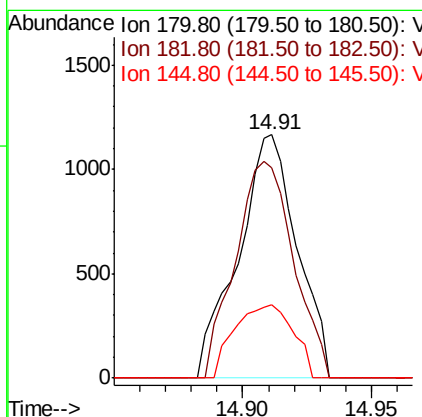
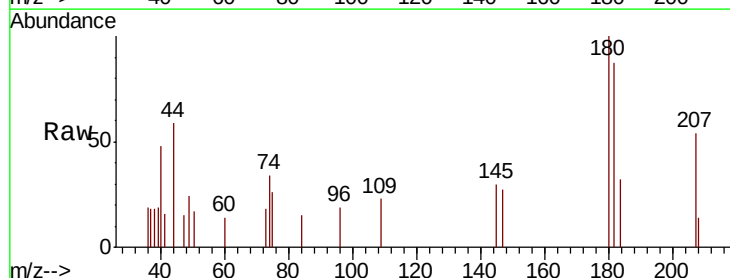
Instrument :
 MSVOA_N
 ClientSampleId :
 FERMENTATION-WASTE

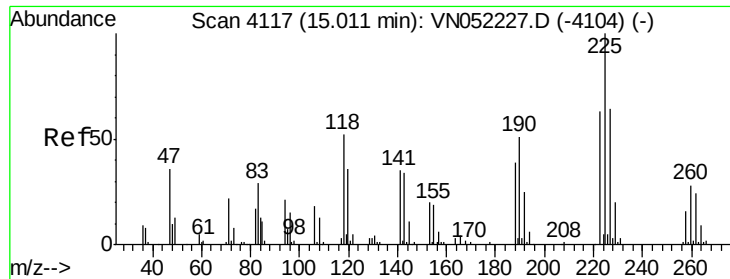
Tot Ion: 75 Resp: 98
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.2 120.5#
 157 0.0 51.7 155.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.864 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052237.D
 Acq: 9 Nov 2018 19:48

Tgt Ion: 180 Resp: 1860
 Ion Ratio Lower Upper
 180 100
 182 87.8 47.3 142.0
 145 29.9 15.6 46.8





#94

Hexachlorobutadiene

Concen: 0.695 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

Instrument :

MSVOA_N

ClientSampleId :

FERMENTATION-WASTE

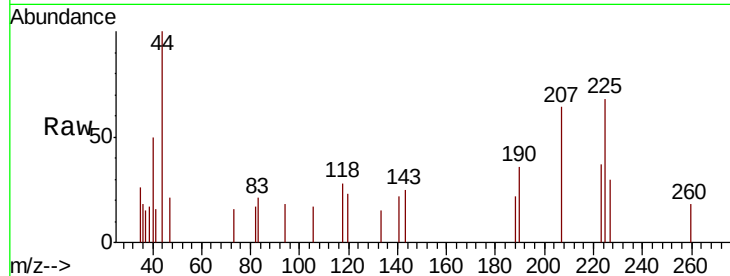
Tot Ion:225 Resp: 813

Ion Ratio Lower Upper

225 100

223 67.2 32.1 96.3

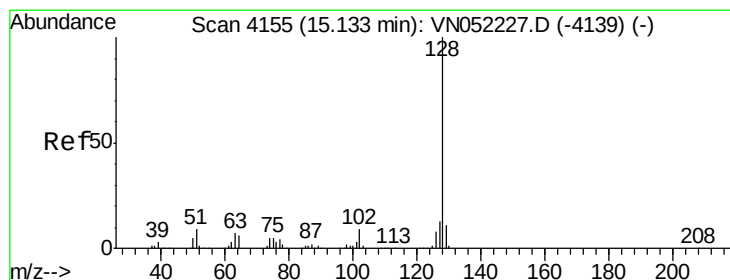
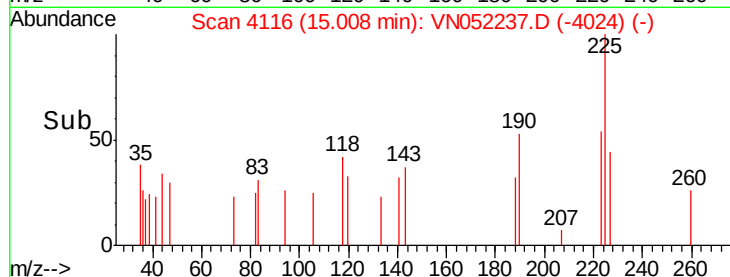
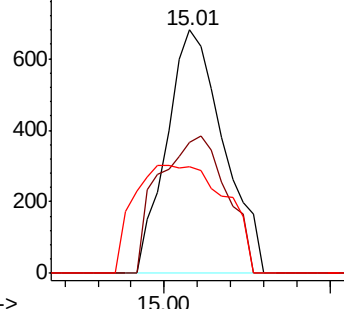
227 70.8 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.887 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052237.D

Acq: 9 Nov 2018 19:48

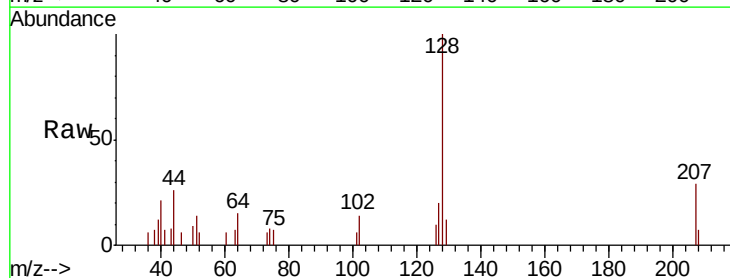
Tgt Ion:128 Resp: 4706

Ion Ratio Lower Upper

128 100

127 17.5 10.6 16.0#

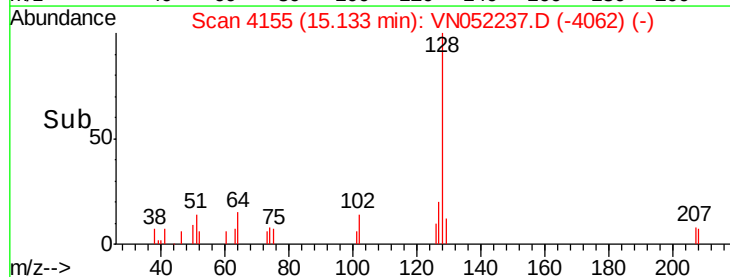
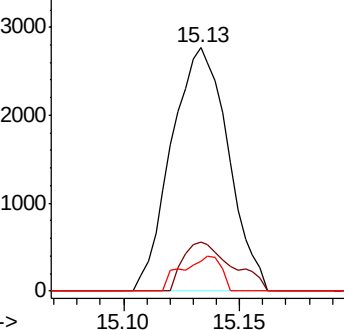
129 9.7 8.7 13.1

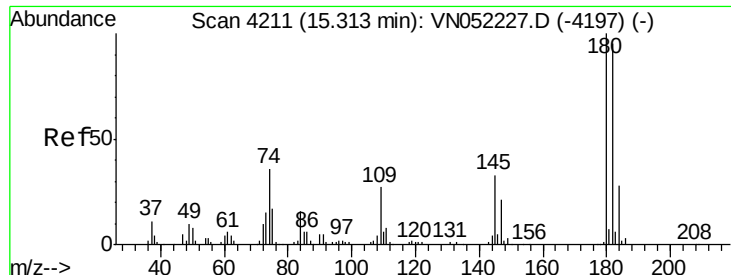


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.791 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN052237.D
 Acq: 9 Nov 2018 19:48

Instrument :
 MSVOA_N
 ClientSampleId :
 FERMENTATION-WASTE

Tot Ion:180 Resp: 1610
 Ion Ratio Lower Upper
 180 100
 182 115.6 47.7 143.1
 145 29.8 16.8 50.3

