

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050663.D
 Acq On : 15 Aug 2018 18:32
 Operator : MD\SY
 Sample : PB1112055ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#03

Quant Time: Aug 16 01:31:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	574876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	968715	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	835996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	306537	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	403578	55.69	ug/l	0.00
Spiked Amount			Recovery	=	111.38%	
35) Dibromofluoromethane	7.59	113	371478	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
50) Toluene-d8	10.09	98	1311589	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	
62) 4-Bromofluorobenzene	12.40	95	371096	38.59	ug/l	0.00
Spiked Amount			Recovery	=	77.18%	

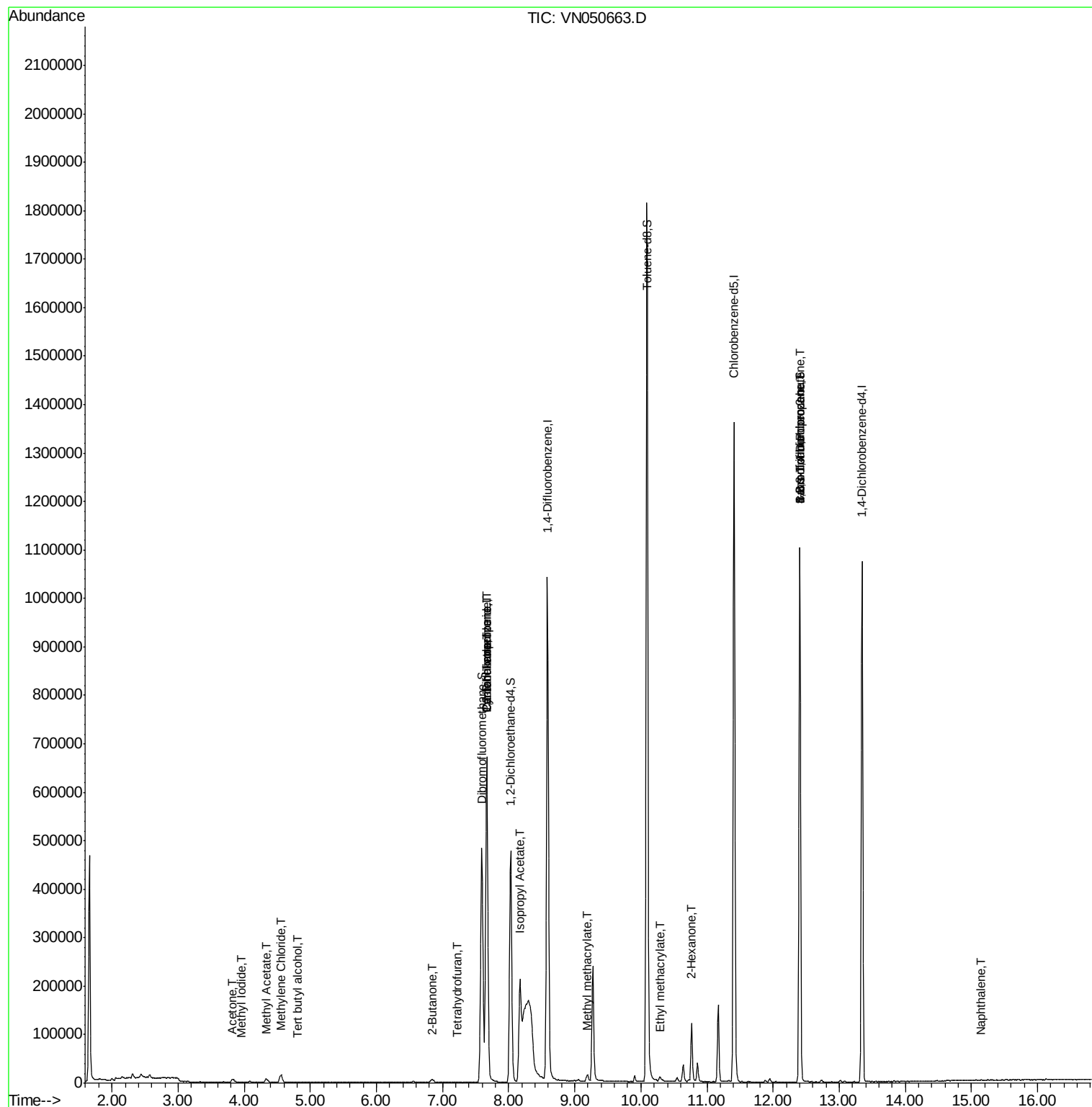
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2492	Below Cal		98
5) Bromomethane	2.57	94	3127	Below Cal		95
6) Chloroethane	2.70	64	173	Below Cal	#	43
10) Methyl Iodide	3.96	142	504	7.04	ug/l #	65
11) Tert butyl alcohol	4.80	59	163	0.41	ug/l #	72
16) Acetone	3.83	43	12669	5.58	ug/l	92
18) Methyl Acetate	4.33	43	6557	0.30	ug/l #	30
20) Methylene Chloride	4.55	84	12286	0.53	ug/l	98
25) 2-Butanone	6.85	43	5934	2.00	ug/l	94
29) Tetrahydrofuran	7.22	42	581	0.37	ug/l #	54
31) Cyclohexane	7.67	56	10416	0.61	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39750	3.69	ug/l #	43
38) Carbon Tetrachloride	7.67	117	51027	4.56	ug/l #	17
43) Isopropyl Acetate	8.17	43	271644	24.45	ug/l #	93
48) Methyl methacrylate	9.18	41	8217	1.47	ug/l #	21
56) Ethyl methacrylate	10.29	69	107	1.92	ug/l #	1
59) 2-Hexanone	10.77	43	17172	3.54	ug/l	64
71) Bromoform	12.40	173	3066	0.59	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	179	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	176941	35.43	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176941	128.33	ug/l #	13
95) Naphthalene	15.14	128	93	3.87	ug/l #	69

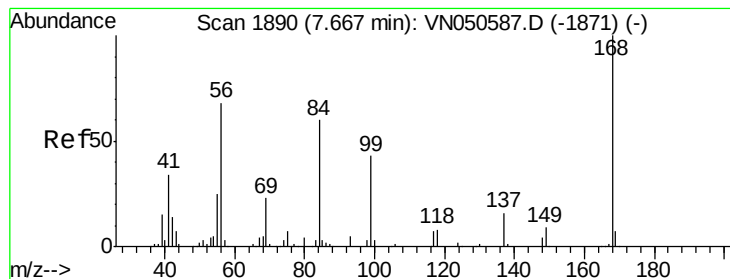
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

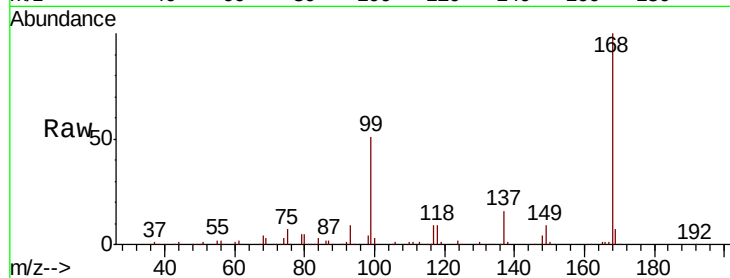
PB1112055ZHE#03

Tot Ion:168 Resp: 574876

Ion Ratio Lower Upper

168 100

99 50.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

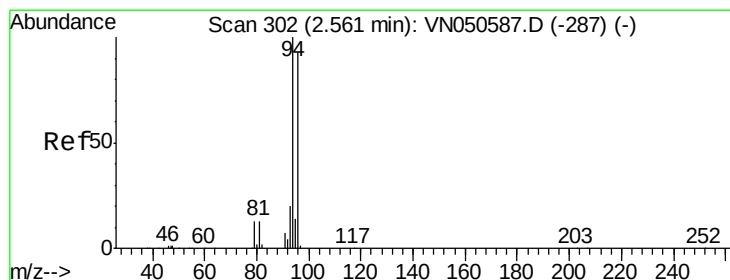
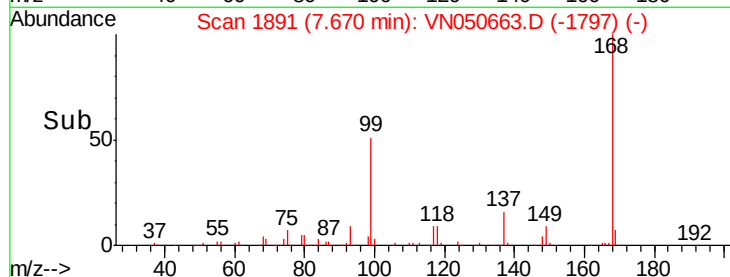
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050663.D

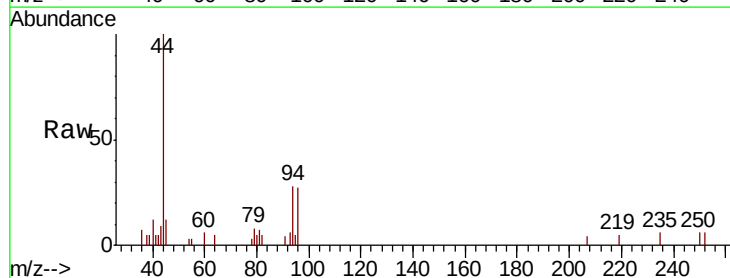
Acq: 15 Aug 2018 18:32

Tgt Ion: 94 Resp: 3127

Ion Ratio Lower Upper

94 100

96 97.3 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

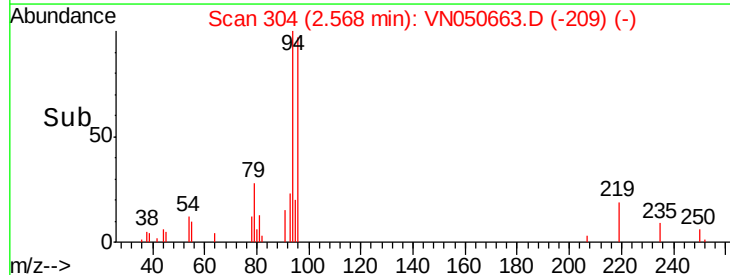
1500

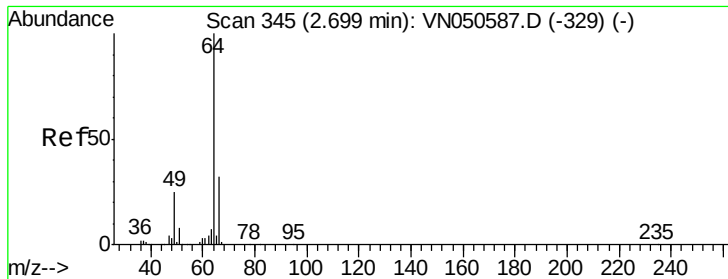
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

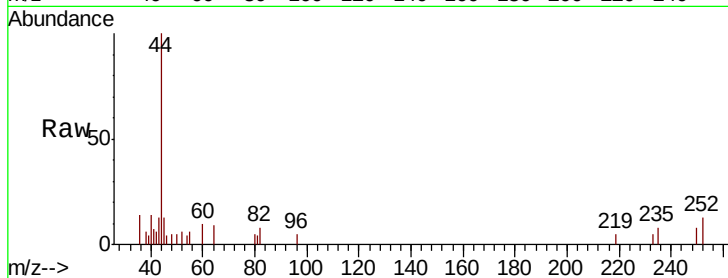
PB1112055ZHE#03

Tot Ion: 64 Resp: 173

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

2.70

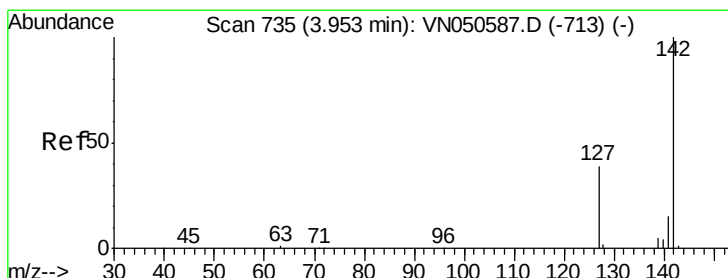
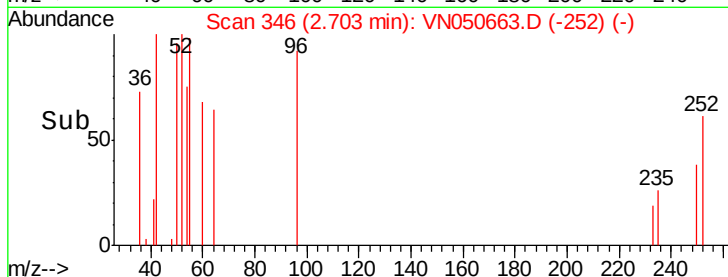
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 7.04 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

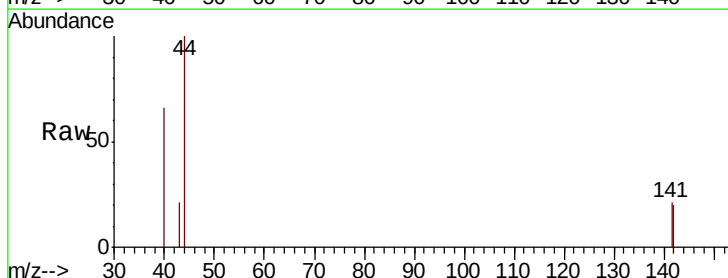
Tgt Ion: 142 Resp: 504

Ion Ratio Lower Upper

142 100

127 19.0 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)

3.96

400

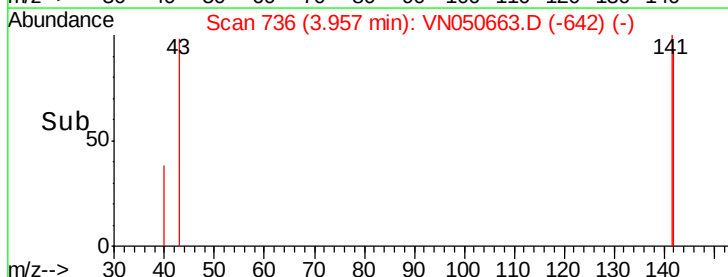
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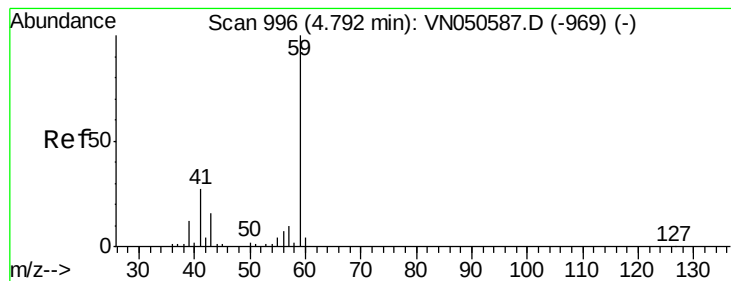
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 0.41 ug/l

RT: 4.80 min Scan# 999

Delta R.T. 0.01 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

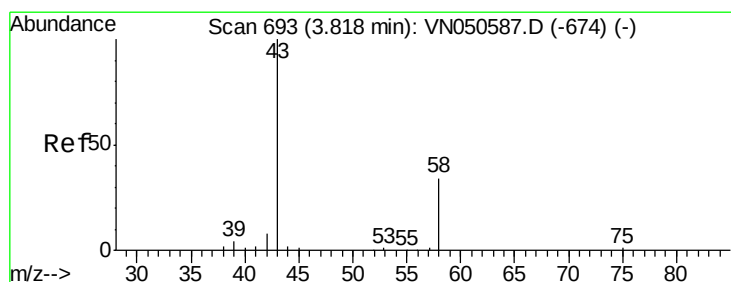
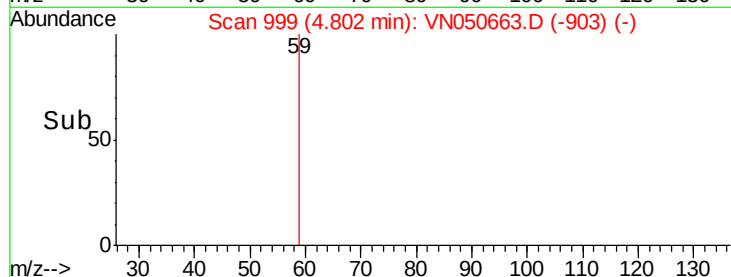
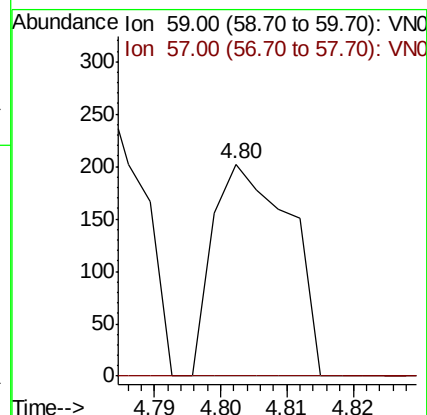
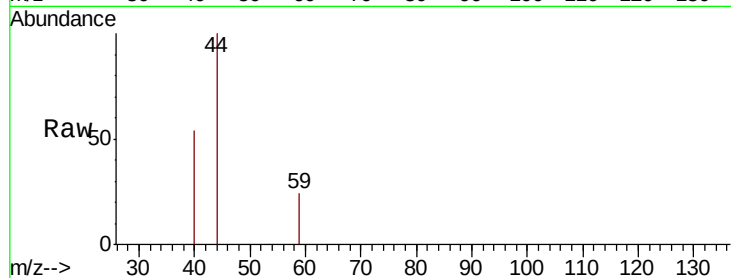
PB1112055ZHE#03

Tot Ion: 59 Resp: 163

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#16

Acetone

Concen: 5.58 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050663.D

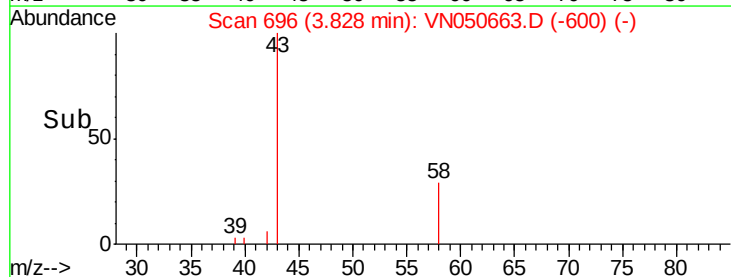
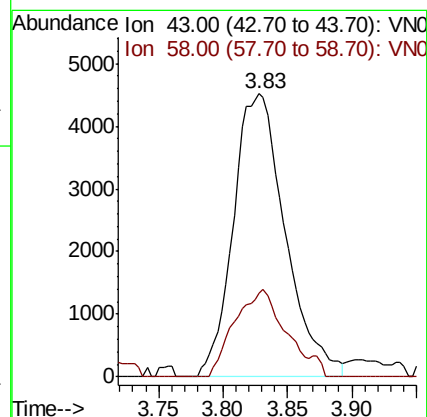
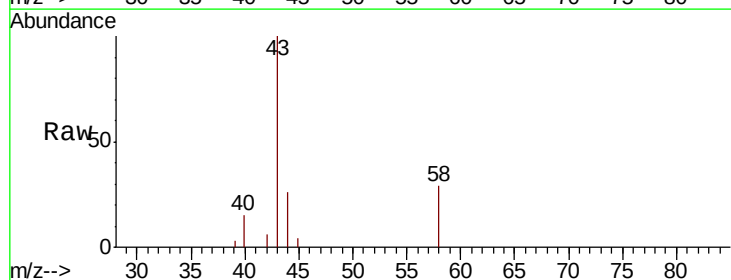
Acq: 15 Aug 2018 18:32

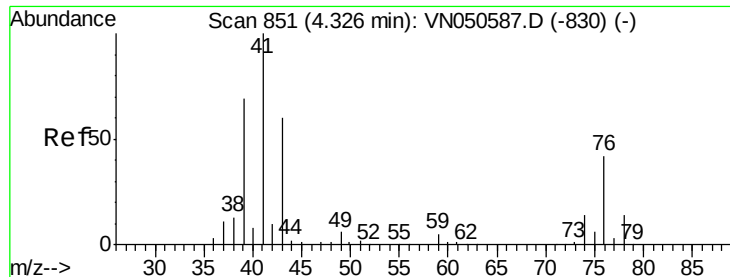
Tgt Ion: 43 Resp: 12669

Ion Ratio Lower Upper

43 100

58 29.4 27.1 40.7

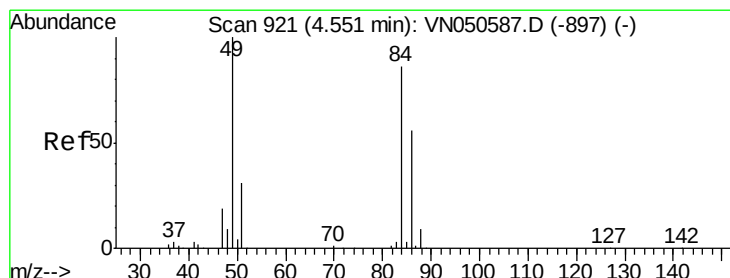
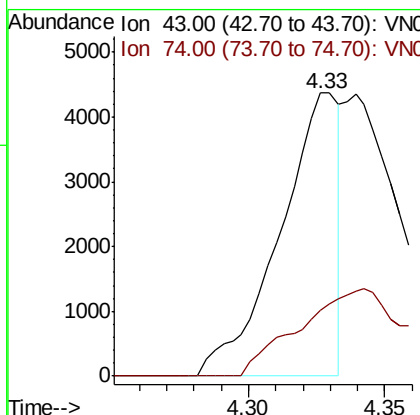
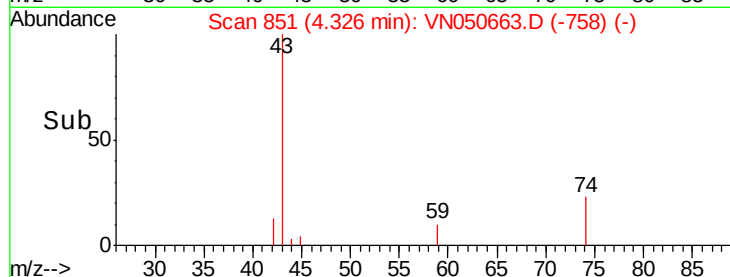
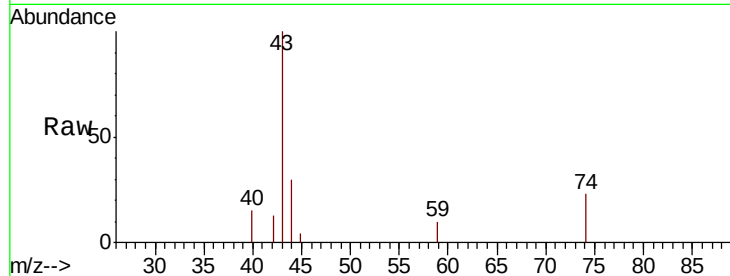




#18
Methyl Acetate
Concen: 0.30 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

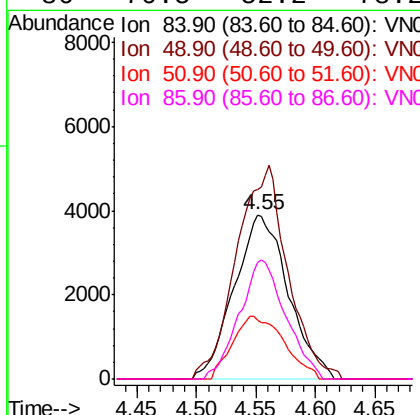
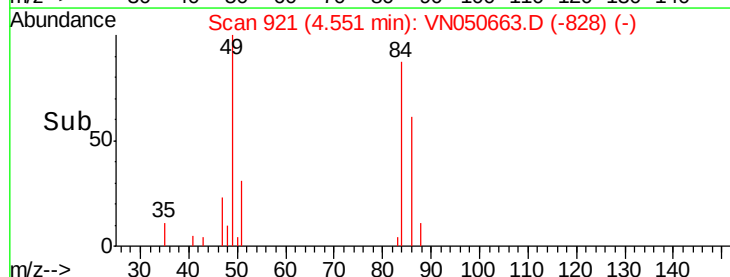
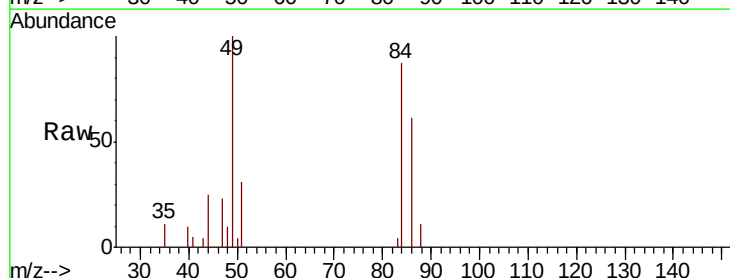
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#03

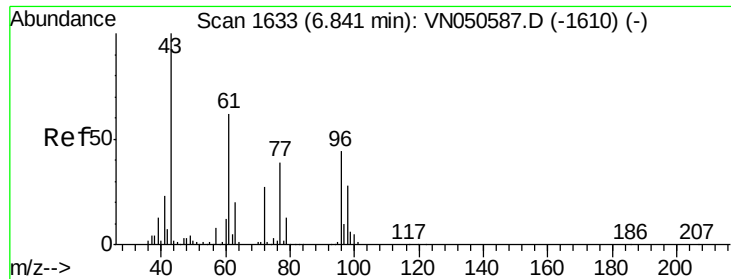
Tot Ion: 43 Resp: 6557
Ion Ratio Lower Upper
43 100
74 59.3 19.7 29.5#



#20
Methylene Chloride
Concen: 0.53 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

Tgt Ion: 84 Resp: 12286
Ion Ratio Lower Upper
84 100
49 115.4 92.6 138.8
51 36.2 28.6 43.0
86 70.5 52.2 78.2

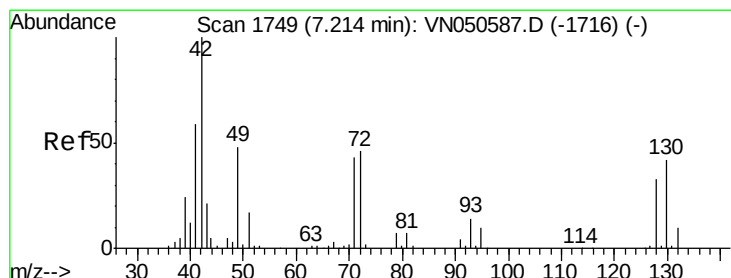
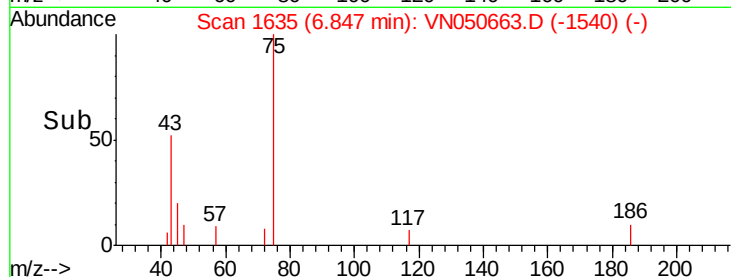
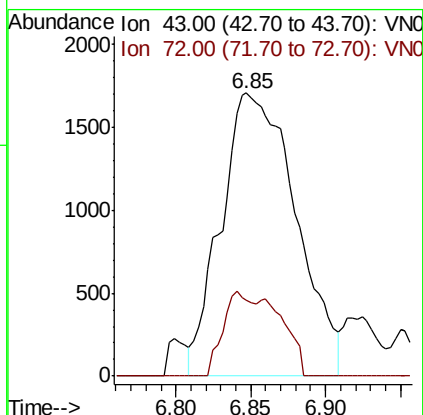
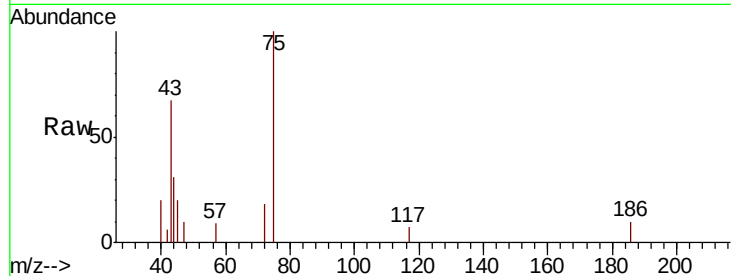




#25
2-Butanone
Concen: 2.00 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

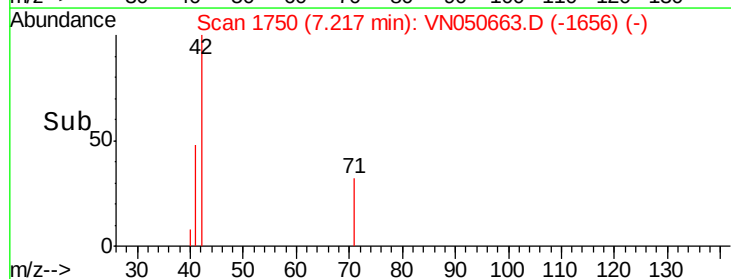
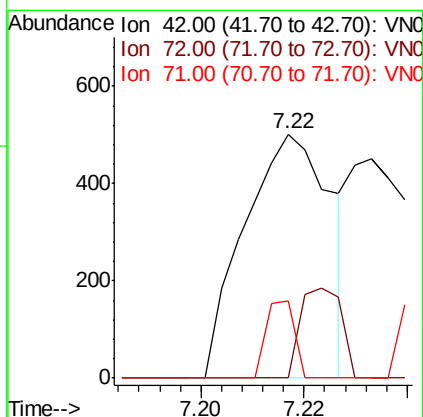
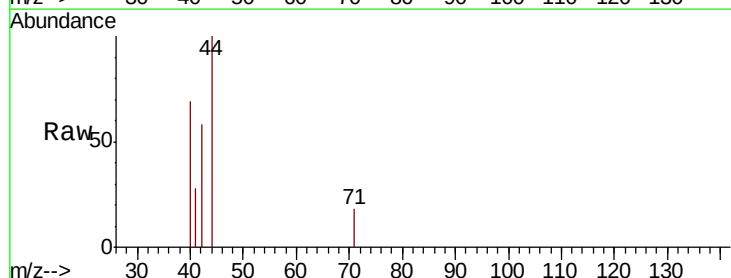
Instrument :
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PB1112055ZHE#03

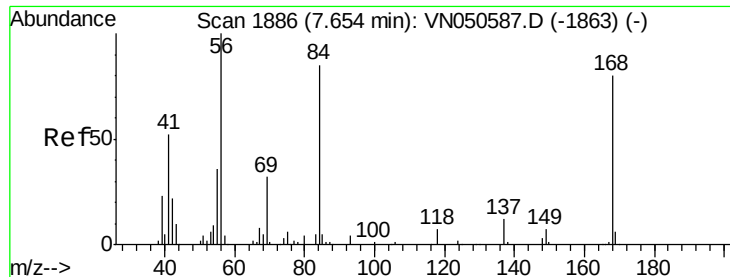
Tot Ion: 43 Resp: 5934
Ion Ratio Lower Upper
43 100
72 30.1 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.37 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

Tgt Ion: 42 Resp: 581
Ion Ratio Lower Upper
42 100
72 17.4 35.8 53.6#
71 10.3 33.4 50.0#

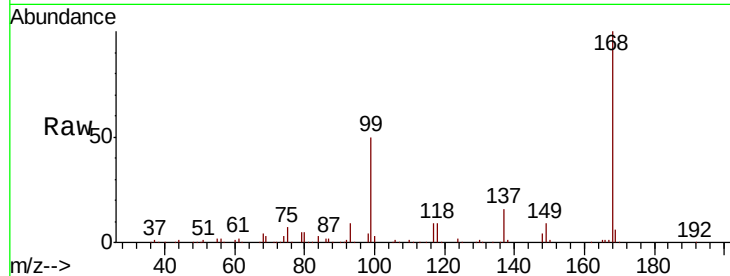




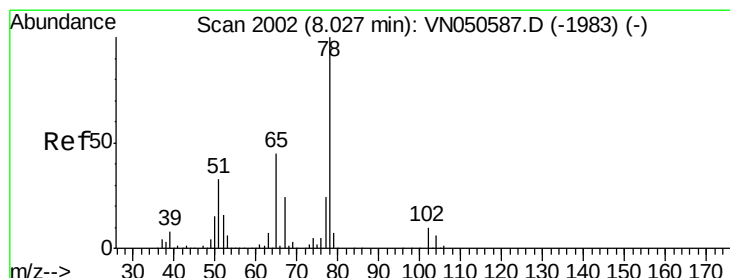
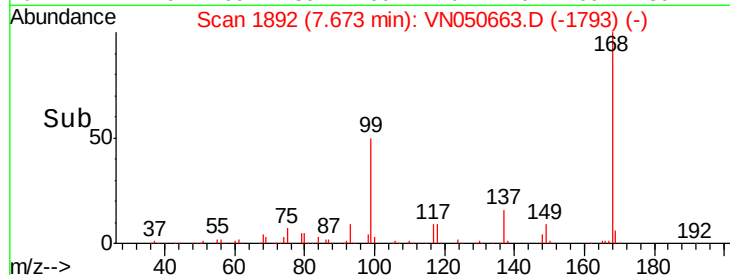
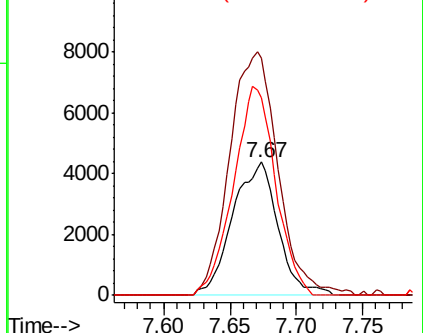
#31
Cyclohexane
Concen: 0.61 ug/l
RT: 7.67 min Scan# 1892
Delta R.T. 0.02 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#03

Tot Ion: 56 Resp: 10416
Ion Ratio Lower Upper
56 100
69 177.9 25.8 38.6#
84 148.1 67.8 101.6#

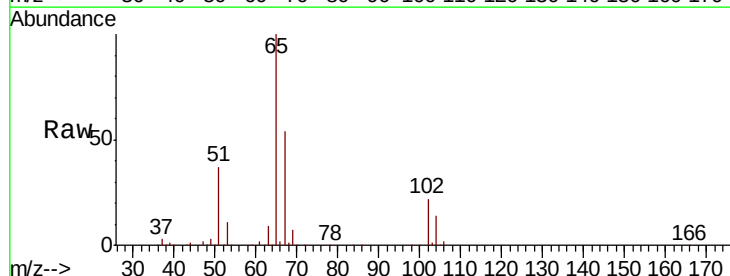


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

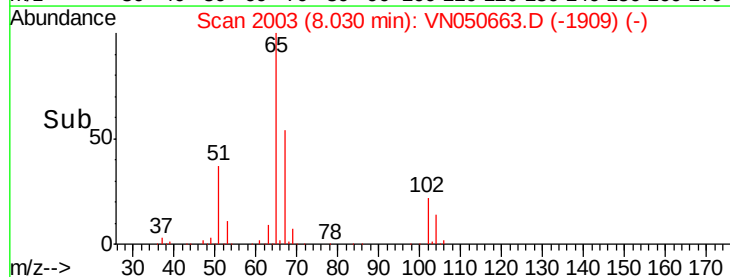
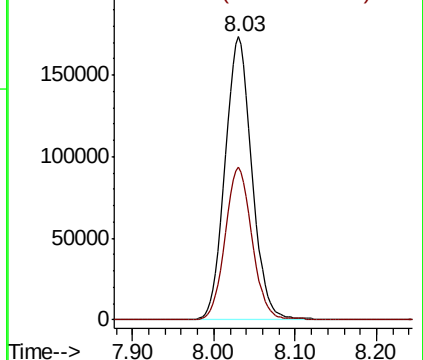


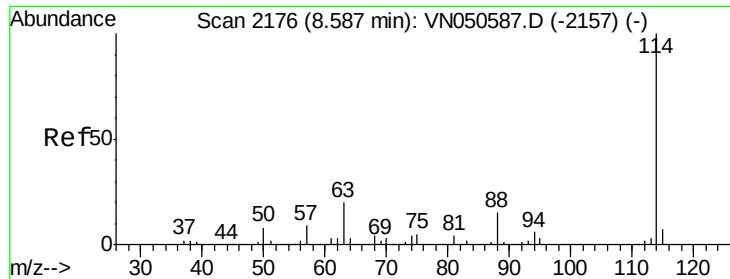
#33
1,2-Dichloroethane-d4
Concen: 55.69 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

Tgt Ion: 65 Resp: 403578
Ion Ratio Lower Upper
65 100
67 53.8 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

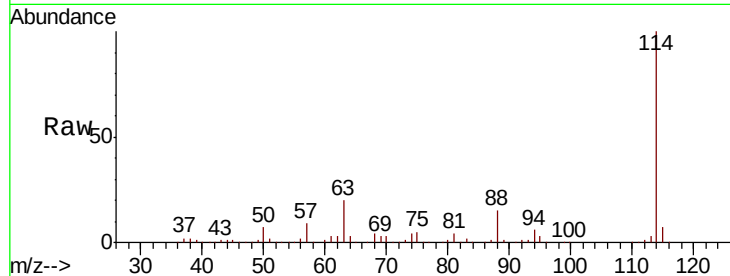




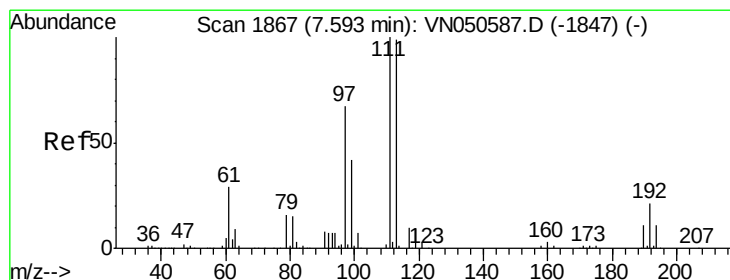
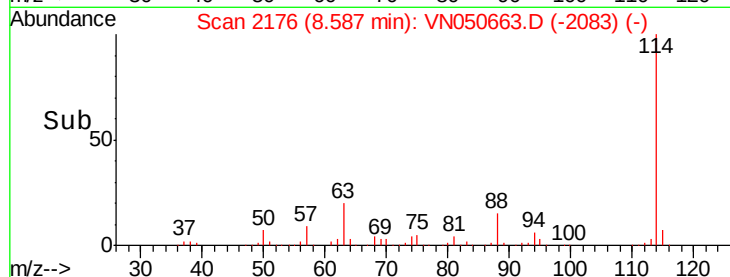
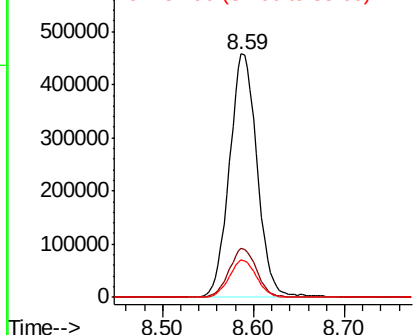
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050663.D
 Acq: 15 Aug 2018 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#03

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.0
88	15.2	0.0	30.8

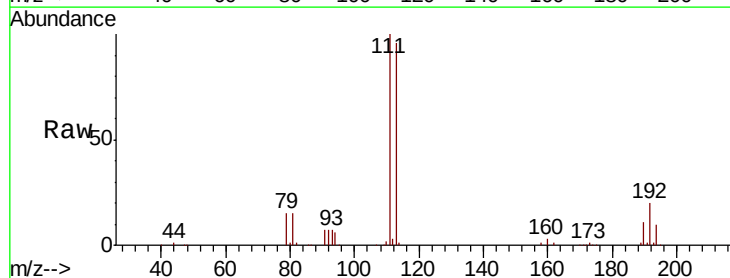


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

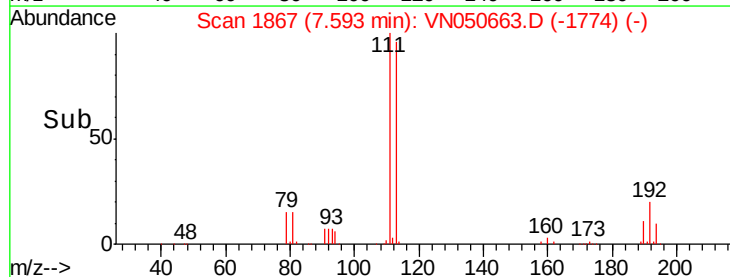
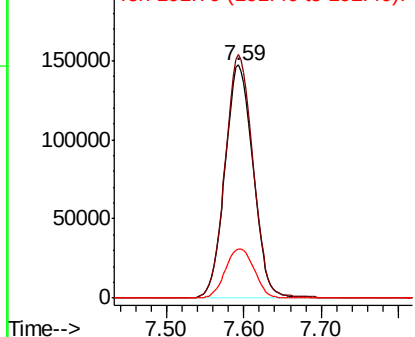


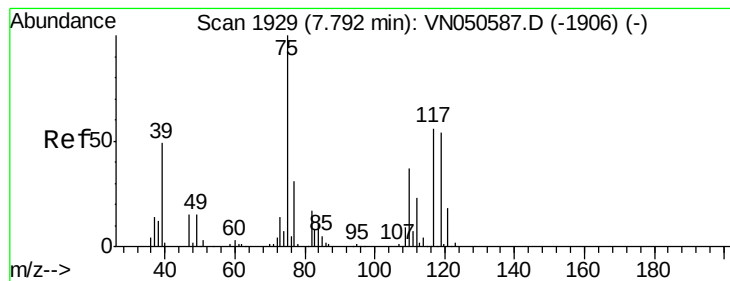
#35
 Dibromofluoromethane
 Concen: 48.03 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050663.D
 Acq: 15 Aug 2018 18:32

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.0	121.6
192	21.8	17.6	26.4



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: 3.69 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#03

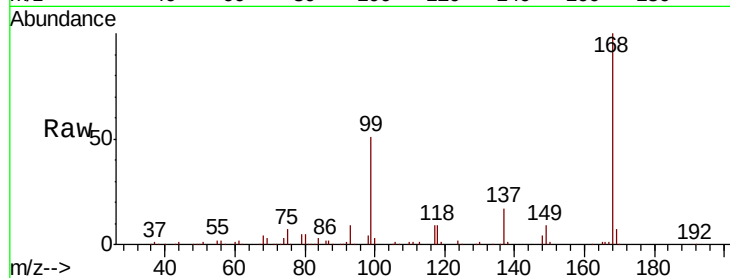
Tot Ion: 75 Resp: 39750

Ion Ratio Lower Upper

75 100

110 2.5 18.3 54.9#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN050587.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050587.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050587.D (-1906) (-)

7.67

15000

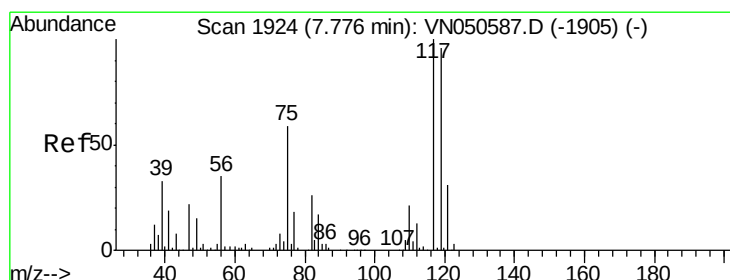
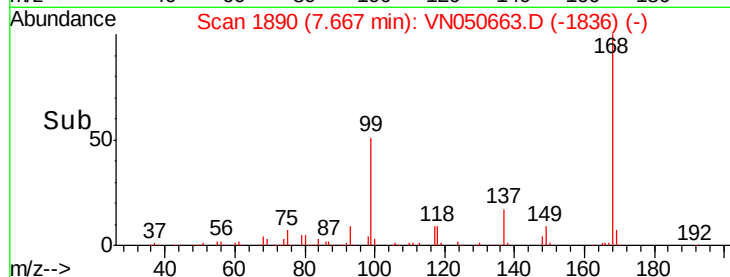
10000

5000

0

7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 4.56 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

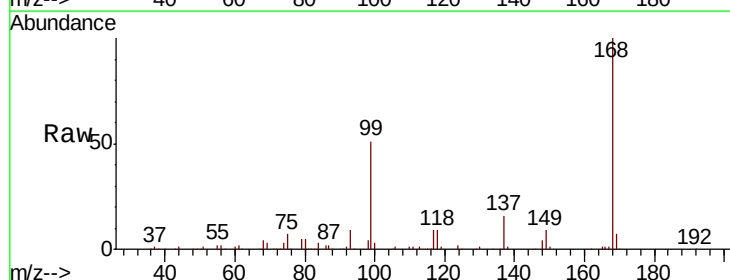
Tgt Ion: 117 Resp: 51027

Ion Ratio Lower Upper

117 100

119 5.8 76.6 115.0#

121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VN050587.D (-1905) (-)

Ion 118.80 (118.50 to 119.50): VN050587.D (-1905) (-)

Ion 120.80 (120.50 to 121.50): VN050587.D (-1905) (-)

7.67

30000

25000

20000

15000

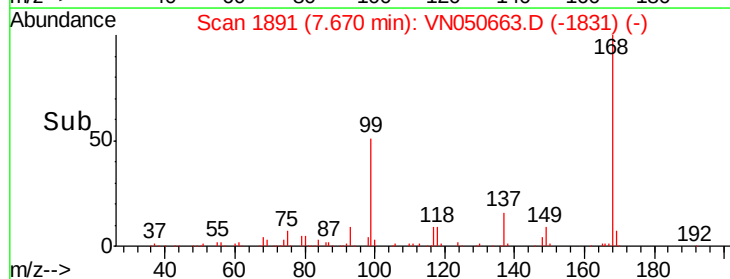
10000

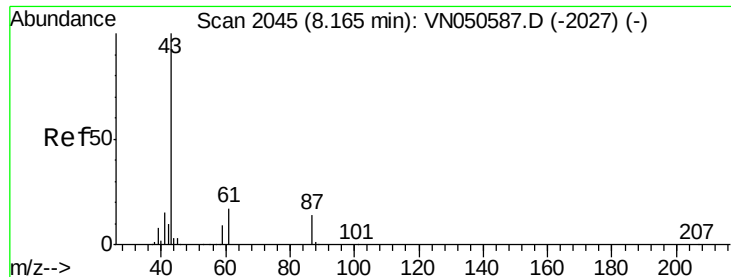
5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



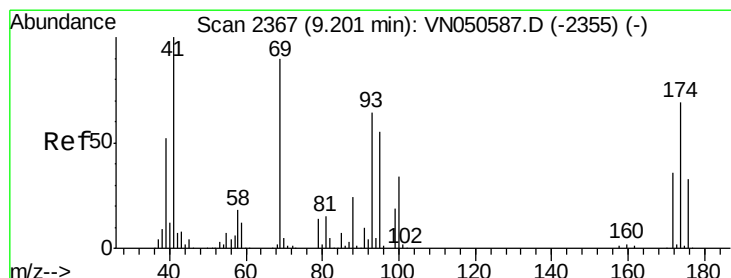
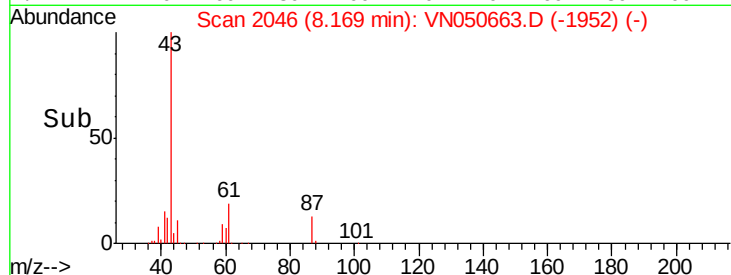
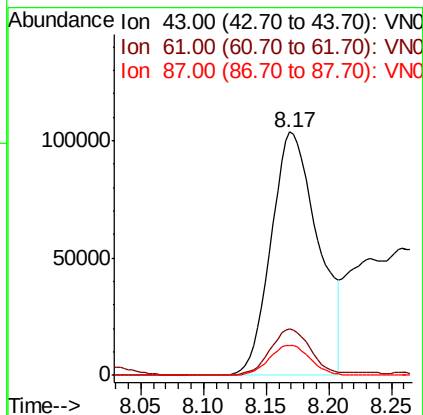
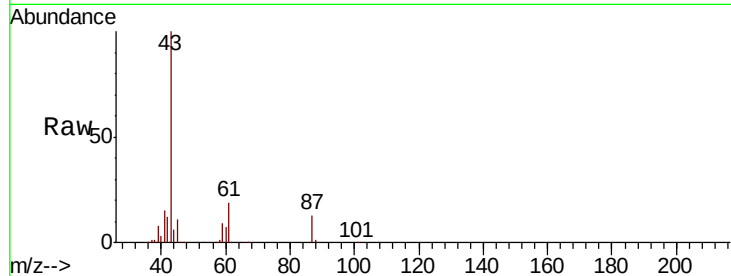


#43

Isopropyl Acetate
 Concen: 24.45 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050663.D
 Acq: 15 Aug 2018 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#03

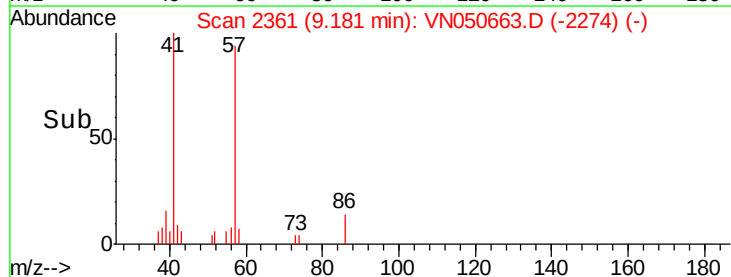
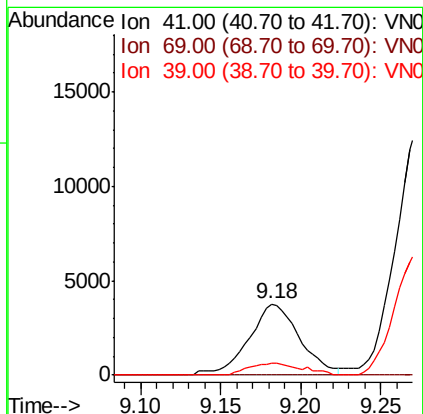
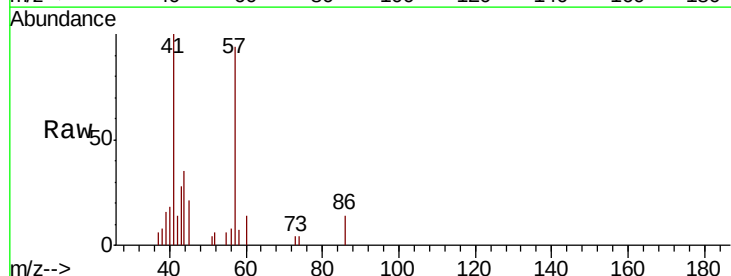
Tot Ion: 43 Resp: 271644
 Ion Ratio Lower Upper
 43 100
 61 16.7 16.2 24.2
 87 10.8 10.9 16.3#

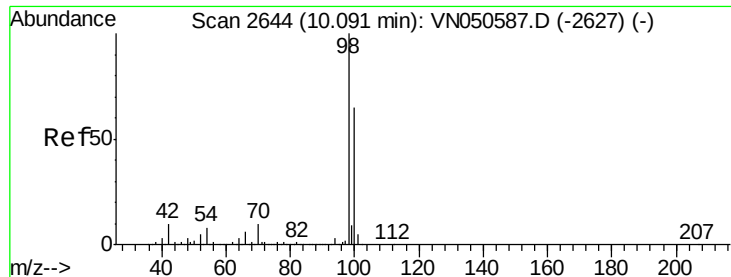


#48

Methyl methacrylate
 Concen: 1.47 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050663.D
 Acq: 15 Aug 2018 18:32

Tgt Ion: 41 Resp: 8217
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.4 110.0#
 39 17.6 43.0 64.6#





#50

Toluene-d8

Concen: 45.06 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

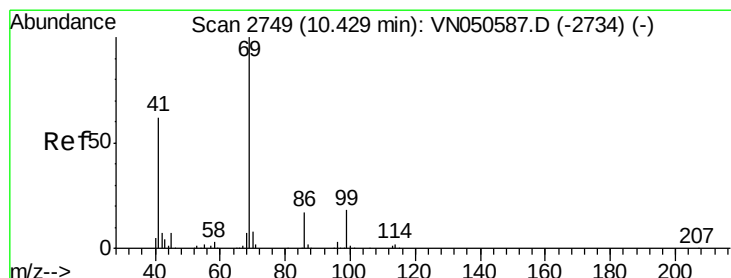
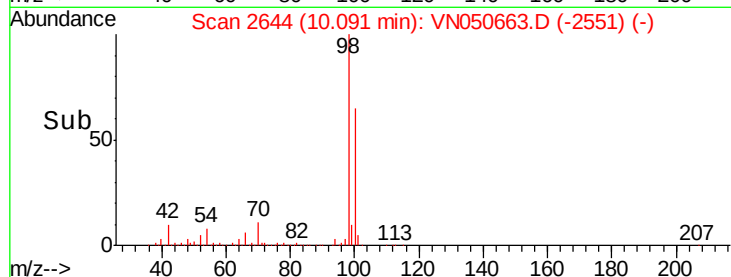
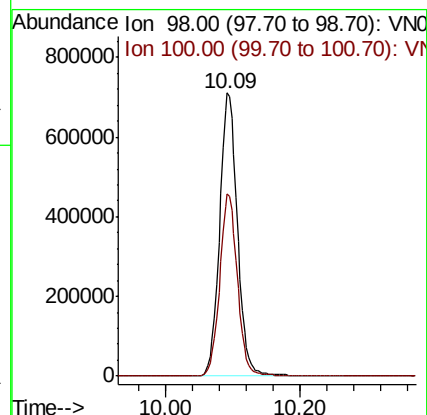
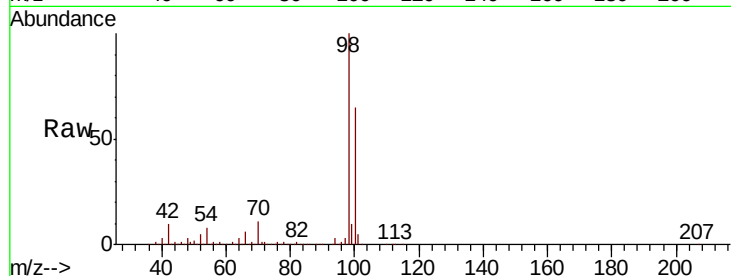
PB1112055ZHE#03

Tot Ion: 98 Resp: 1311589

Ion Ratio Lower Upper

98 100

100 64.0 51.8 77.8



#56

Ethyl methacrylate

Concen: 1.92 ug/l

RT: 10.29 min Scan# 2706

Delta R.T. -0.14 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

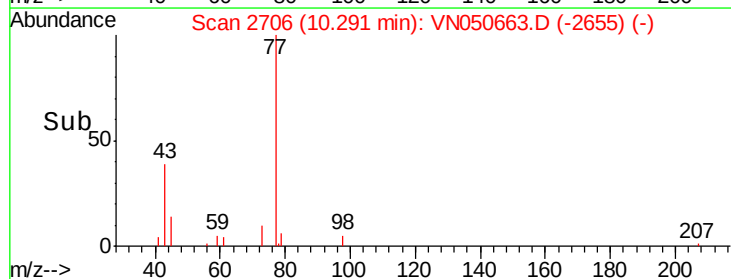
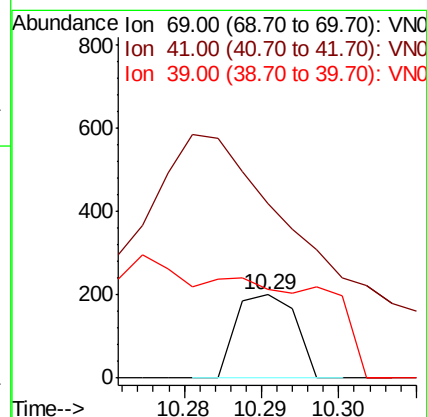
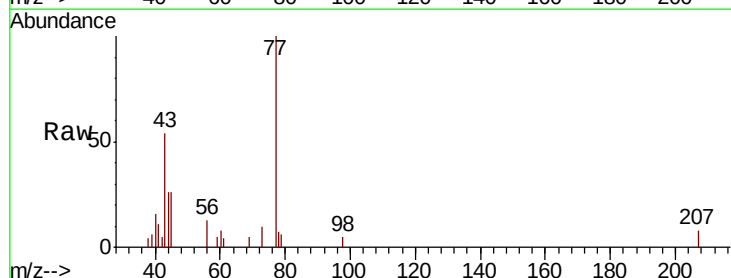
Tgt Ion: 69 Resp: 107

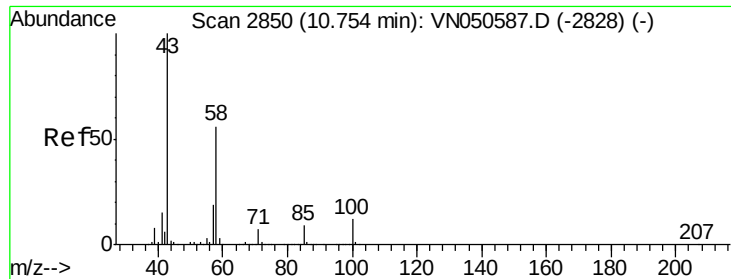
Ion Ratio Lower Upper

69 100

41 874.8 49.7 74.5#

39 446.7 24.2 36.2#





#59

2-Hexanone

Concen: 3.54 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

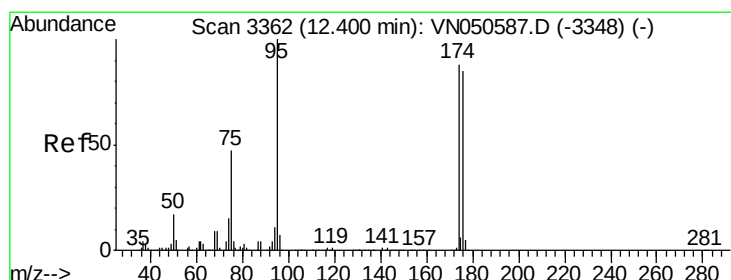
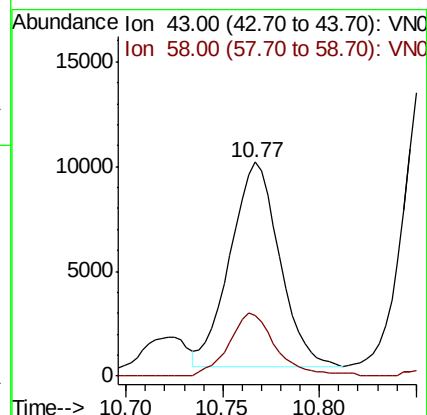
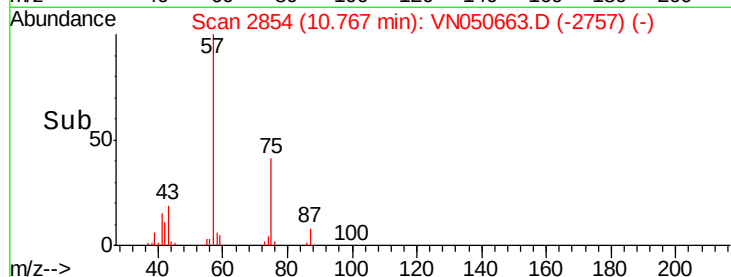
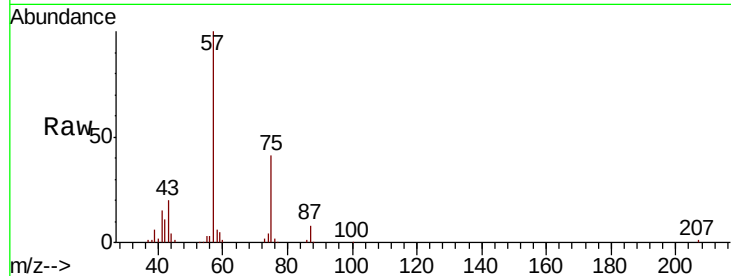
PB1112055ZHE#03

Tot Ion: 43 Resp: 17172

Ion Ratio Lower Upper

43 100

58 29.5 28.0 84.0



#62

4-Bromofluorobenzene

Concen: 38.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

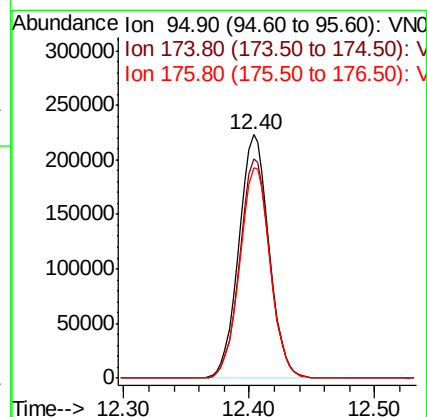
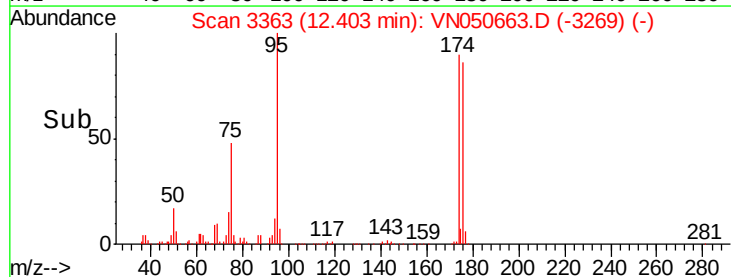
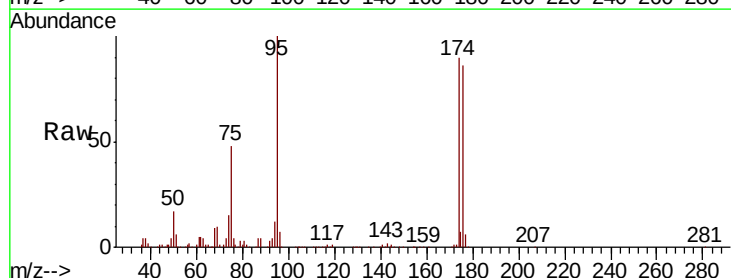
Tgt Ion: 95 Resp: 371096

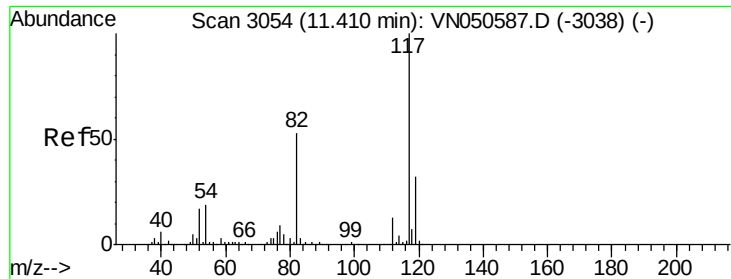
Ion Ratio Lower Upper

95 100

174 90.7 0.0 177.8

176 87.6 0.0 175.0

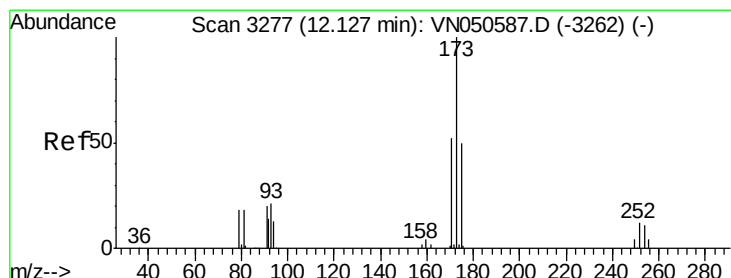
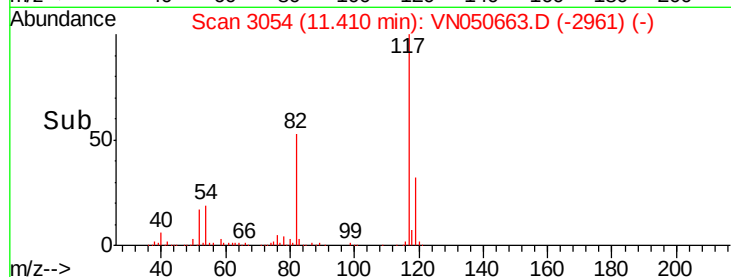
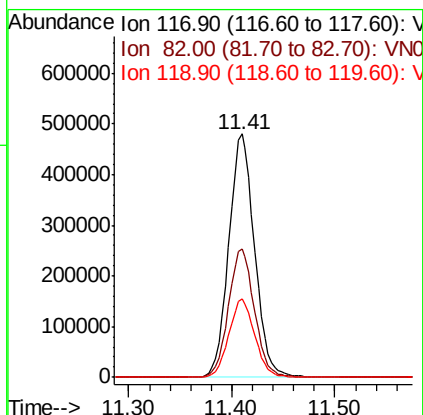
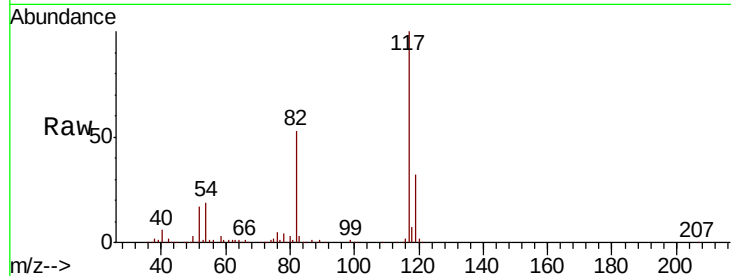




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

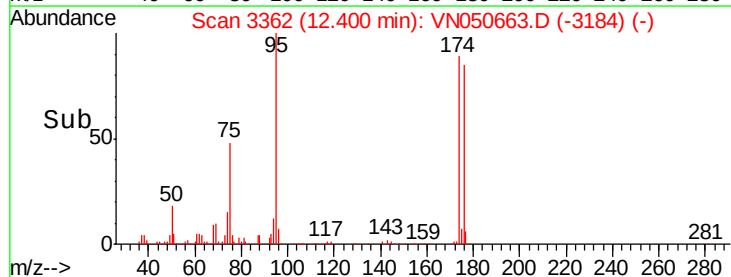
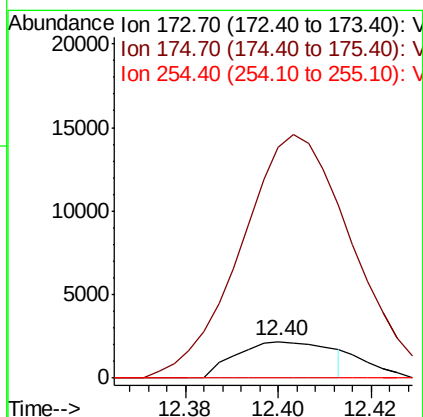
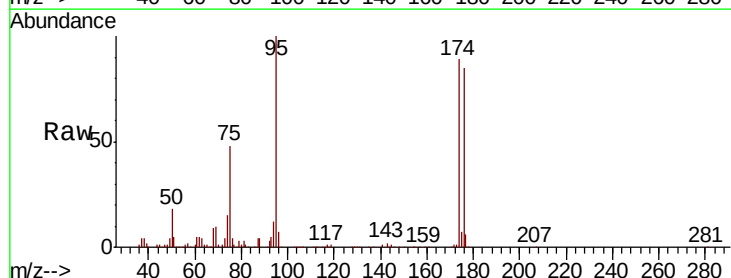
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#03

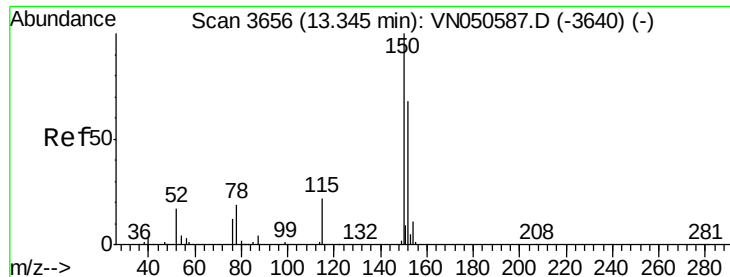
Tot Ion:117 Resp: 835996
Ion Ratio Lower Upper
117 100
82 52.7 42.4 63.6
119 32.0 25.8 38.8



#71
Bromoform
Concen: 0.59 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050663.D
Acq: 15 Aug 2018 18:32

Tgt Ion:173 Resp: 3066
Ion Ratio Lower Upper
173 100
175 648.3 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#03

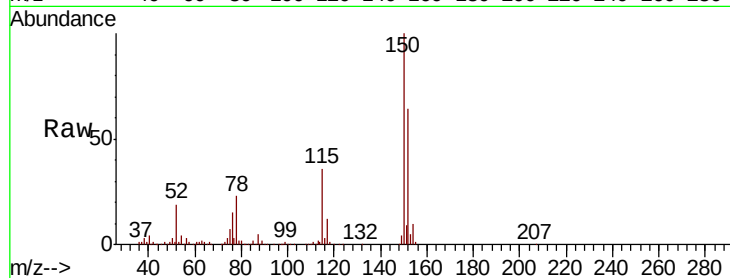
Tot Ion:152 Resp: 306537

Ion Ratio Lower Upper

152 100

115 56.5 28.1 84.2

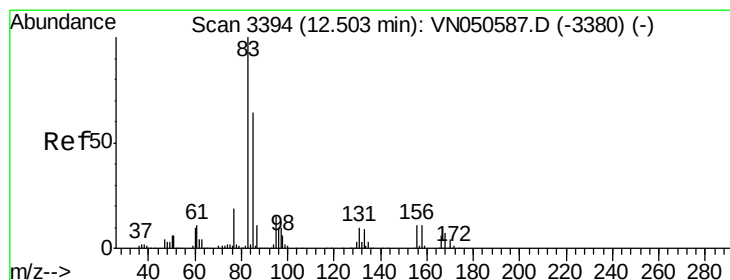
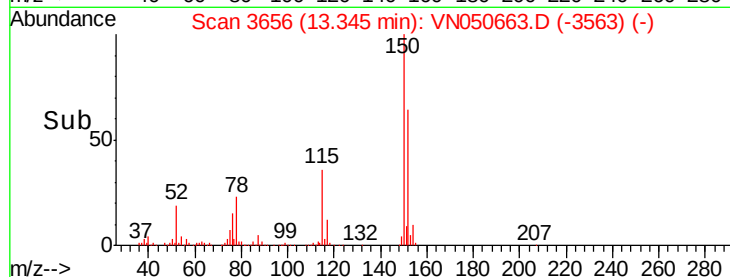
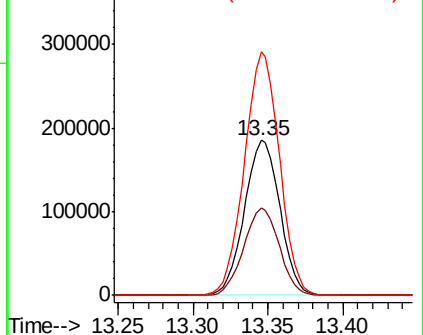
150 155.3 0.0 347.8



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

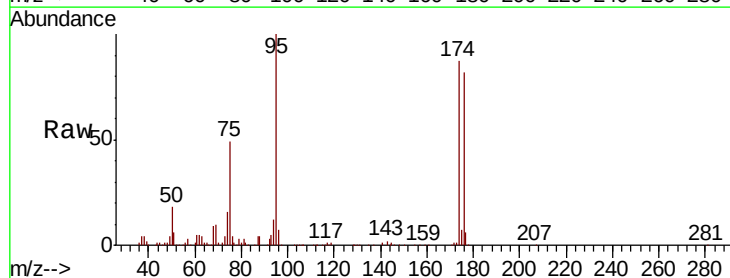
Tgt Ion: 83 Resp: 179

Ion Ratio Lower Upper

83 100

131 252.5 5.3 15.9#

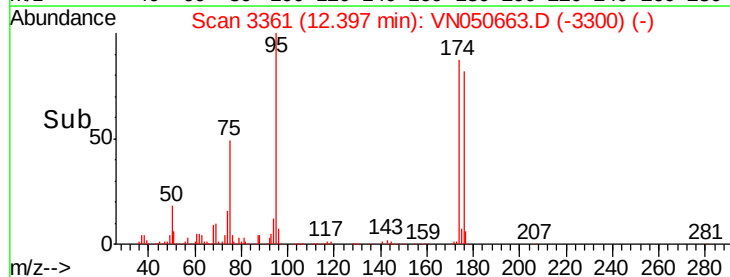
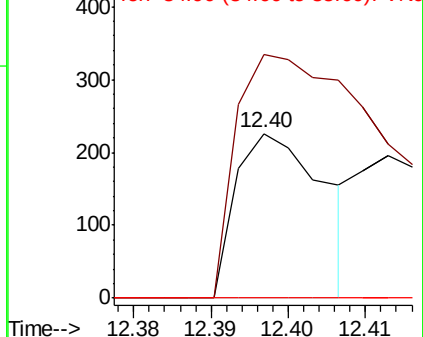
85 0.0 32.1 96.5#

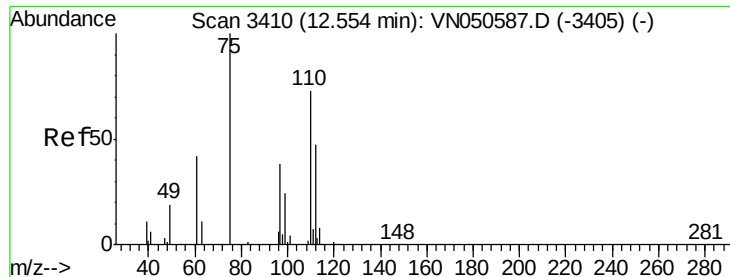


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 35.43 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

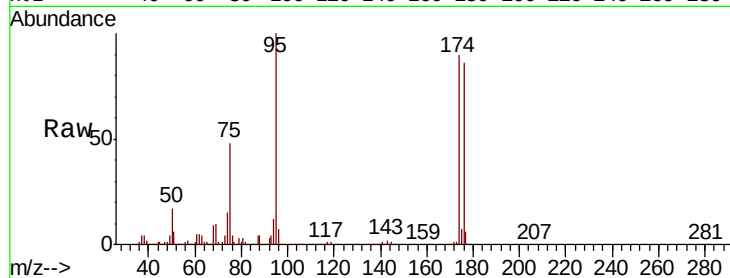
PB1112055ZHE#03

Tot Ion: 75 Resp: 176941

Ion Ratio Lower Upper

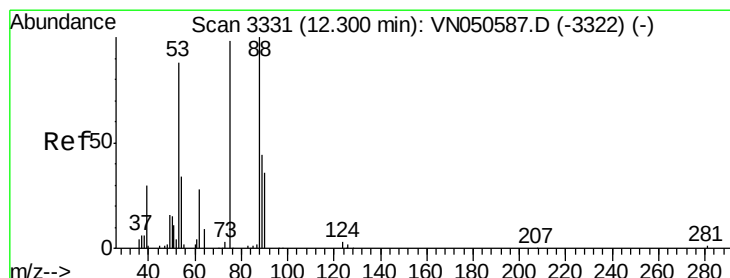
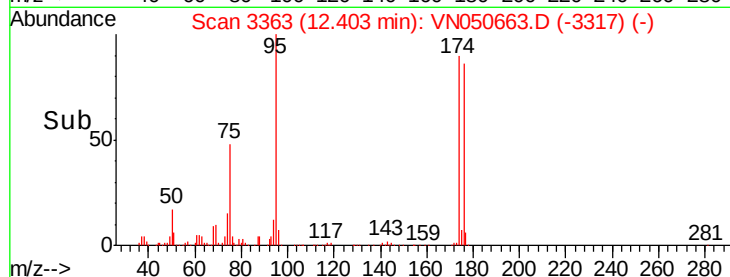
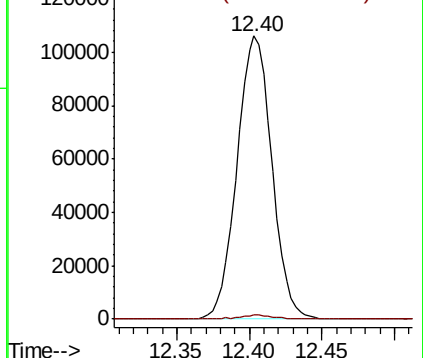
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 128.33 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

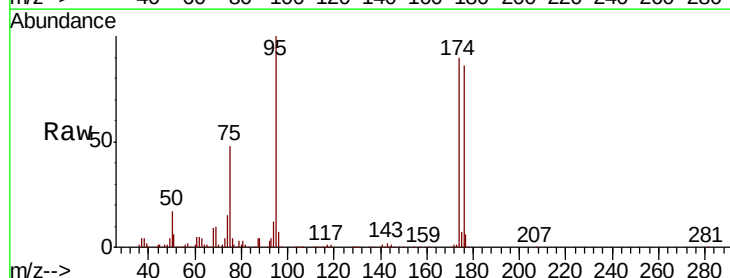
Tgt Ion: 75 Resp: 176941

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

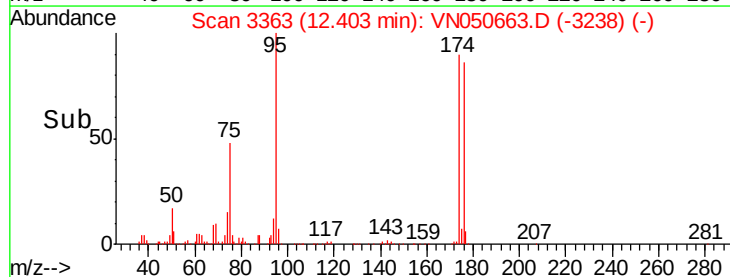
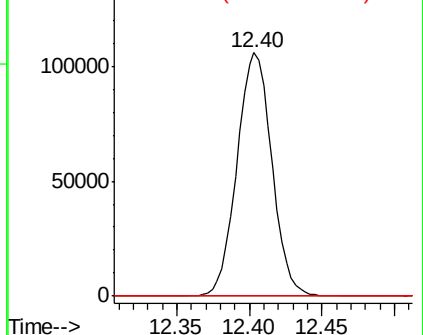
89 0.0 36.3 54.5#

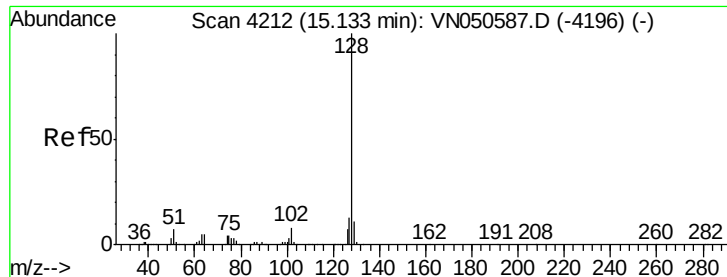


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 3.87 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050663.D

Acq: 15 Aug 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#03

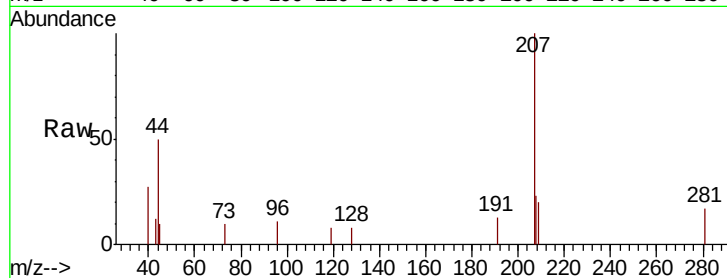
Tot Ion:128 Resp: 93

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

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

