

Data File : VN050699.D
Acq On : 16 Aug 2018 14:16
Operator : MD\SY
Sample : PB112098ZHE#04
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#04

Quant Time: Aug 17 03:02:55 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	605051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1040819	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	901188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	318306	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	430189	56.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.82%	
35) Dibromofluoromethane	7.59	113	392026	47.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.36%	
50) Toluene-d8	10.09	98	1415485	45.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.52%	
62) 4-Bromofluorobenzene	12.40	95	392236	37.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.94%	

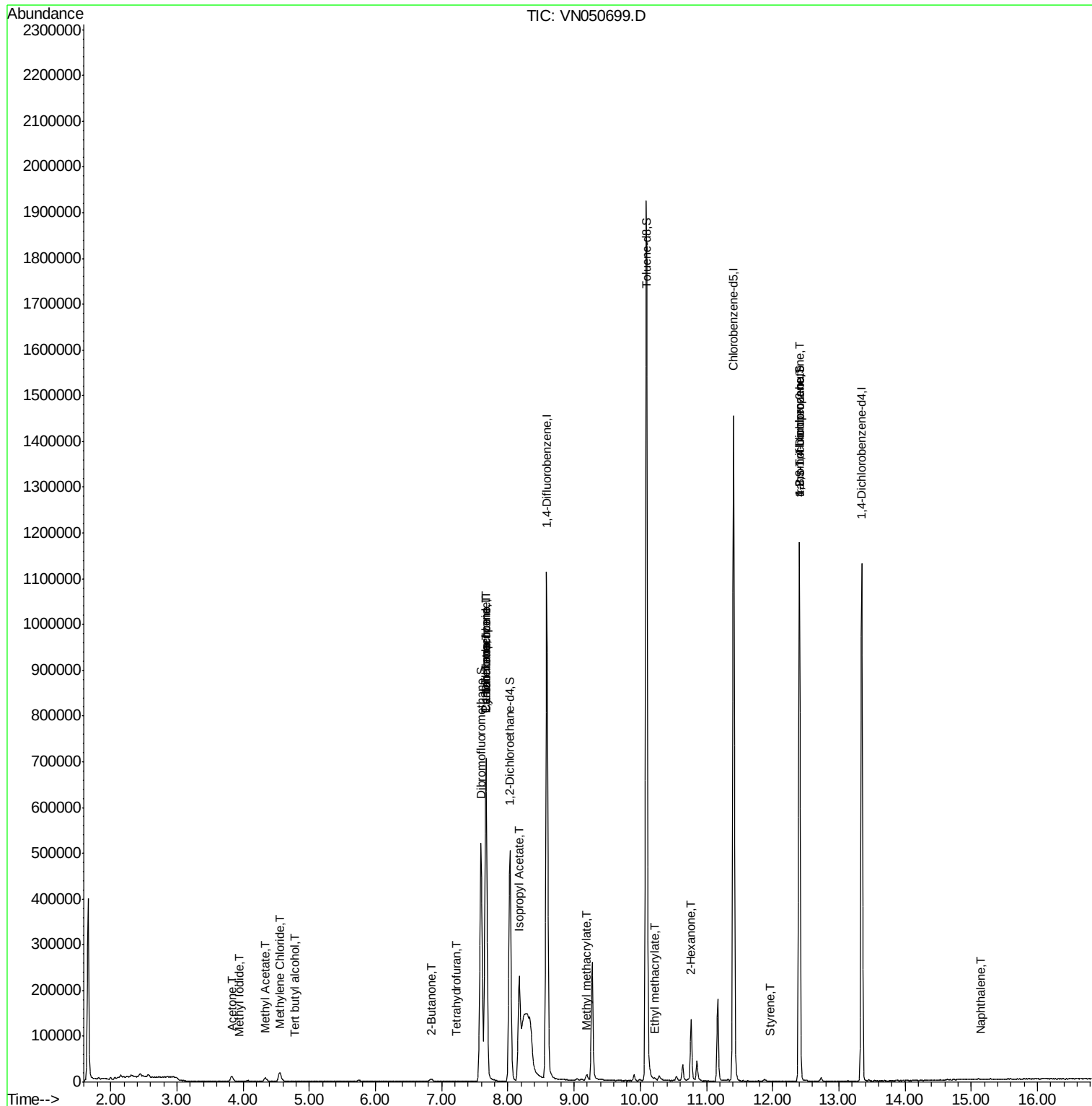
Target Compounds				Qvalue		
3) Chloromethane	2.06	50	2307	Below Cal		95
5) Bromomethane	2.57	94	2842	Below Cal	#	77
6) Chloroethane	2.68	64	74	Below Cal	#	43
10) Methyl Iodide	3.95	142	335	7.005	ug/l #	42
11) Tert butyl alcohol	4.78	59	115	0.276	ug/l #	72
13) Acrolein	3.62	56	30	Below Cal	#	1
16) Acetone	3.83	43	20585	9.415	ug/l	98
18) Methyl Acetate	4.34	43	15577	1.952	ug/l	94
20) Methylene Chloride	4.55	84	14888	0.802	ug/l	95
25) 2-Butanone	6.85	43	4311	1.379	ug/l	95
29) Tetrahydrofuran	7.22	42	701	0.429	ug/l #	58
31) Cyclohexane	7.67	56	11295	0.636	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43738	3.775	ug/l #	49
38) Carbon Tetrachloride	7.67	117	55193	4.592	ug/l #	17
43) Isopropyl Acetate	8.17	43	291524	24.425	ug/l	95
48) Methyl methacrylate	9.18	41	6969	1.160	ug/l #	22
56) Ethyl methacrylate	10.23	69	2509	2.145	ug/l #	65
59) 2-Hexanone	10.77	43	18916	3.631	ug/l #	58
70) Styrene	11.97	104	199	0.949	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.41	83	205	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	186478	35.972	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	186478	130.246	ug/l #	13
95) Naphthalene	15.13	128	142	3.872	ug/l #	69

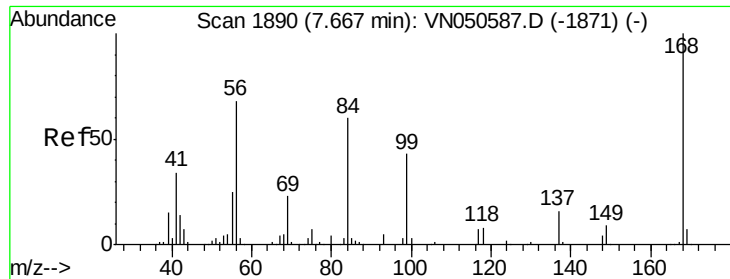
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Instrument :

MSVOA_N

ClientSampleId :

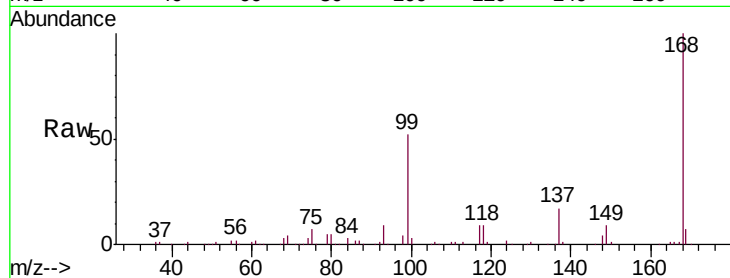
PB112098ZHE#04

Tgt Ion:168 Resp: 605051

Ion Ratio Lower Upper

168 100

99 51.7 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

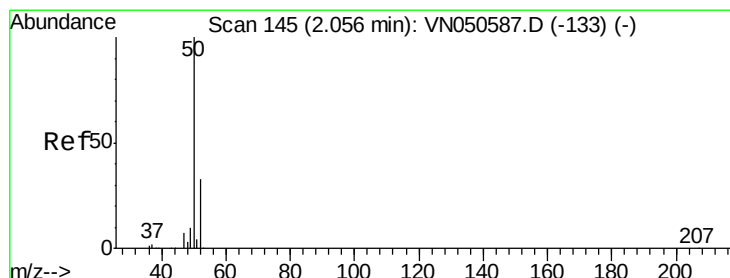
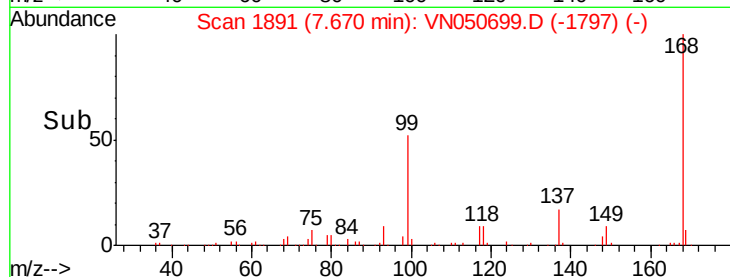
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050699.D

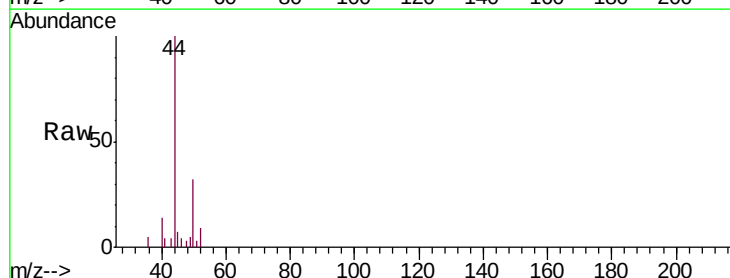
Acq: 16 Aug 2018 14:16

Tgt Ion: 50 Resp: 2307

Ion Ratio Lower Upper

50 100

52 29.5 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

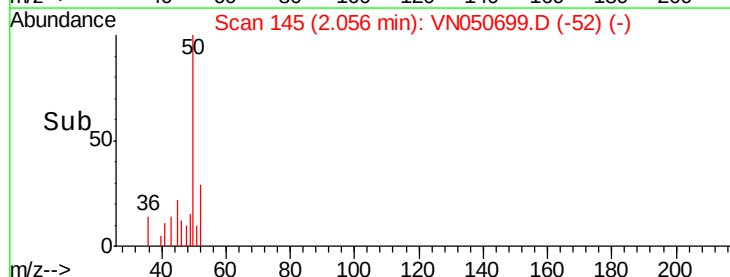
1500

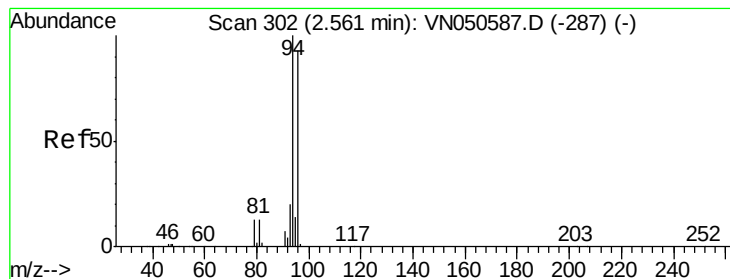
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Instrument :

MSVOA_N

ClientSampleId :

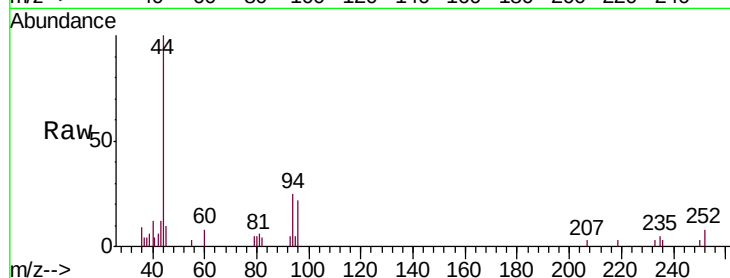
PB112098ZHE#04

Tgt Ion: 94 Resp: 2842

Ion Ratio Lower Upper

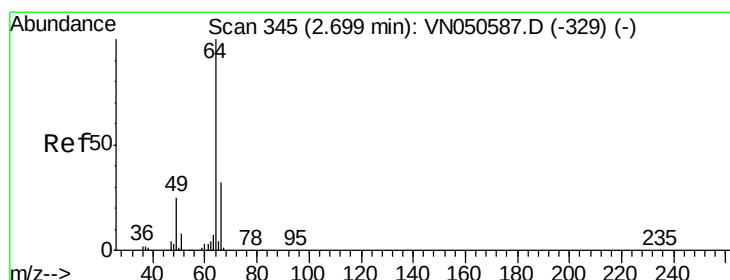
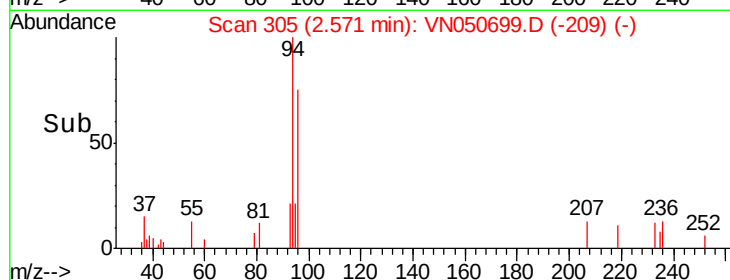
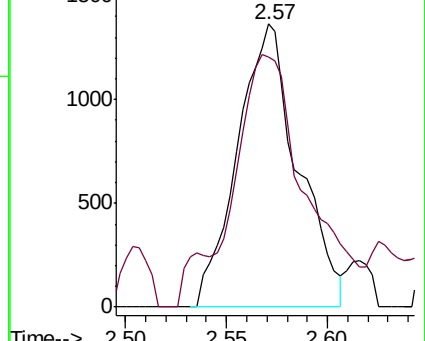
94 100

96 70.3 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 339

Delta R.T. -0.02 min

Lab File: VN050699.D

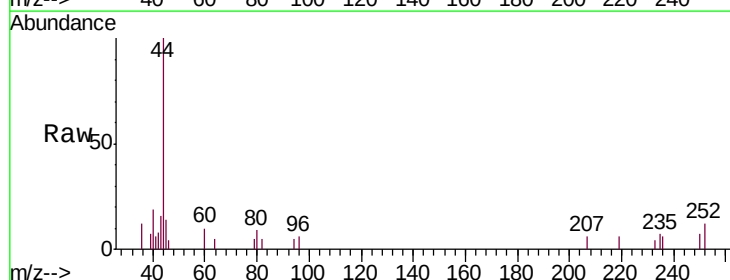
Acq: 16 Aug 2018 14:16

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

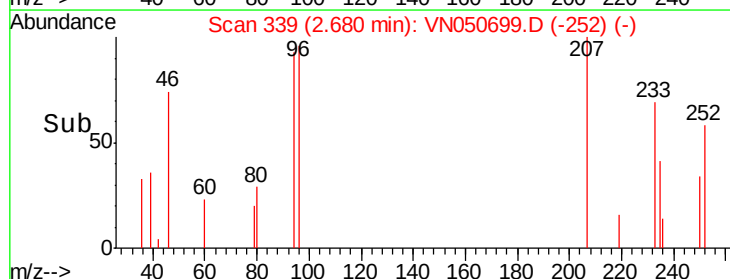
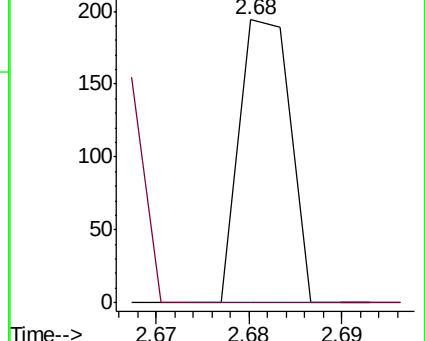
64 100

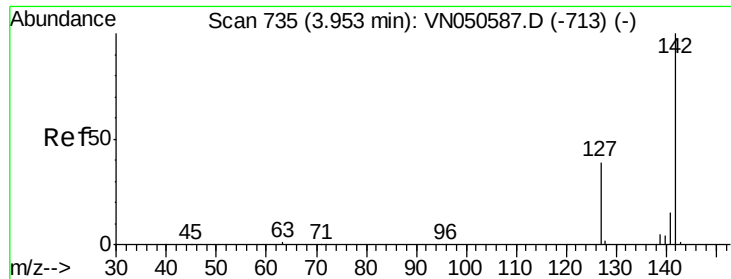
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

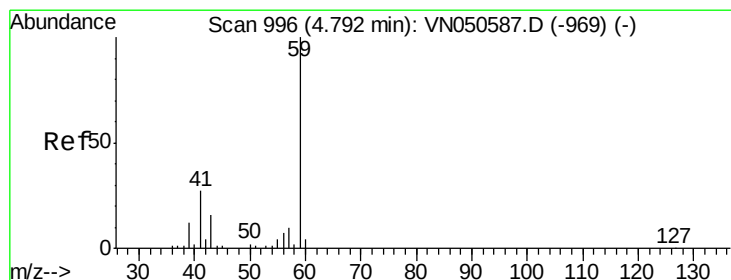
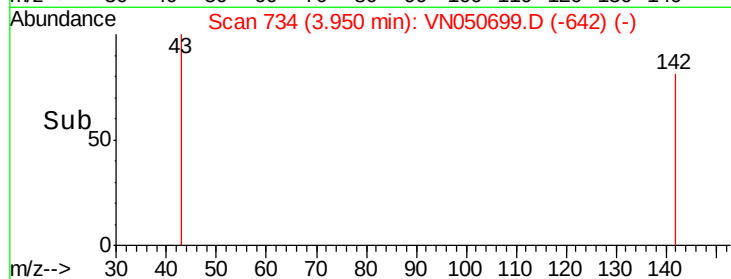
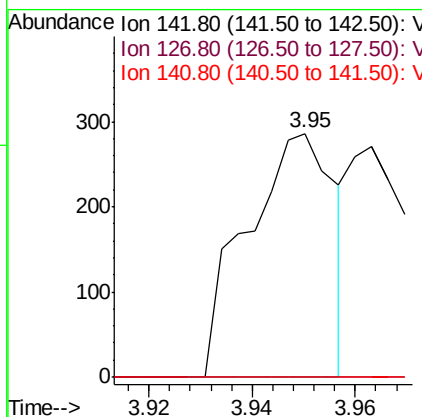
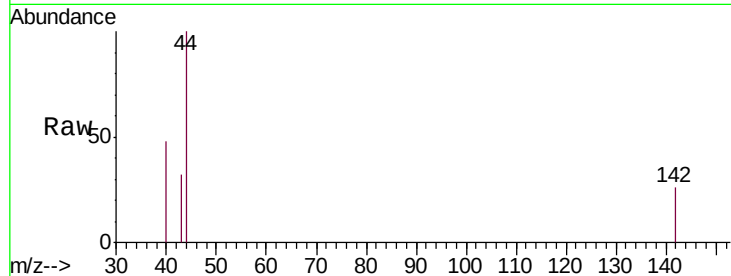




#10
Methyl Iodide
Concen: 7.005 ug/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

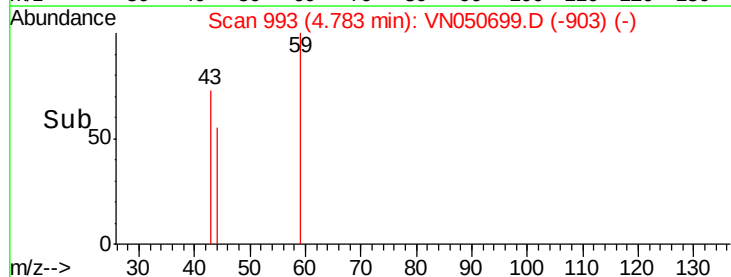
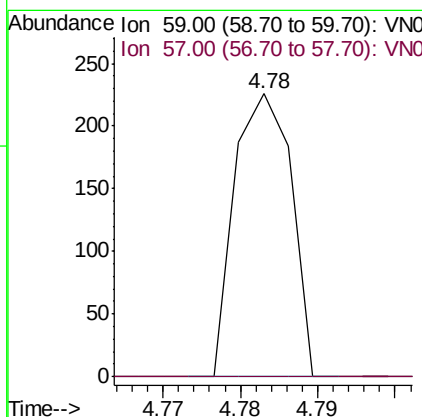
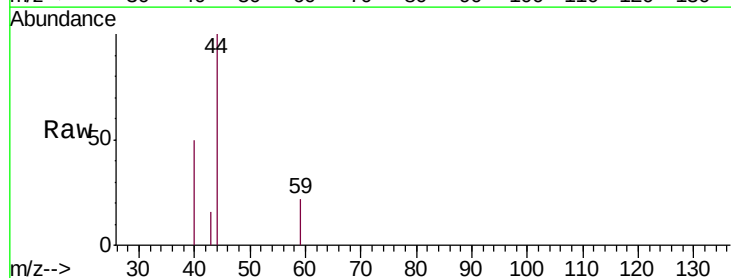
Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#04

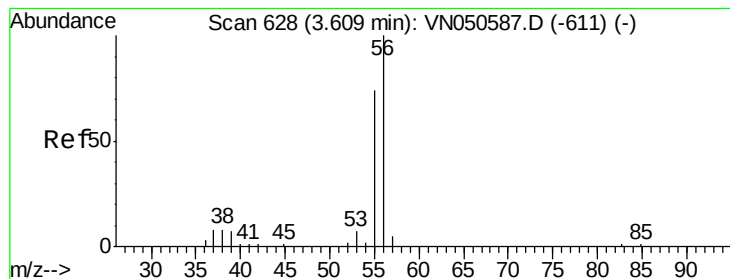
Tgt Ion: 142 Resp: 335
Ion Ratio Lower Upper
142 100
127 0.0 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.276 ug/l
RT: 4.78 min Scan# 993
Delta R.T. -0.01 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Tgt Ion: 59 Resp: 115
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Instrument :

MSVOA_N

ClientSampleId :

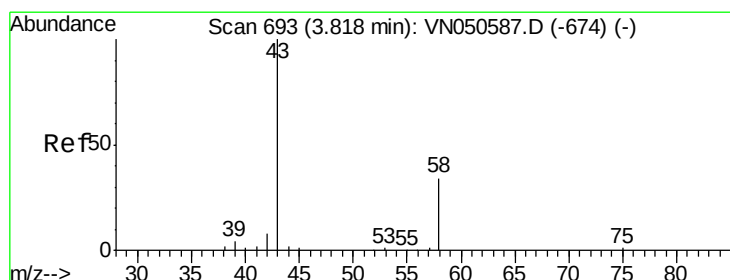
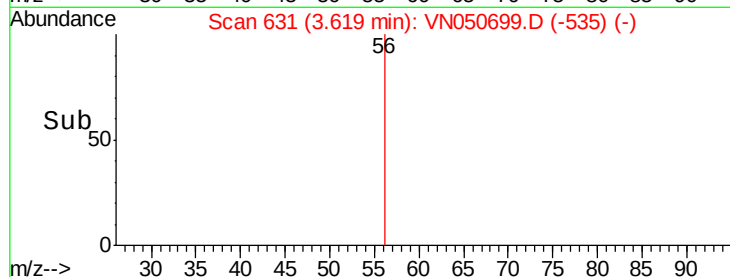
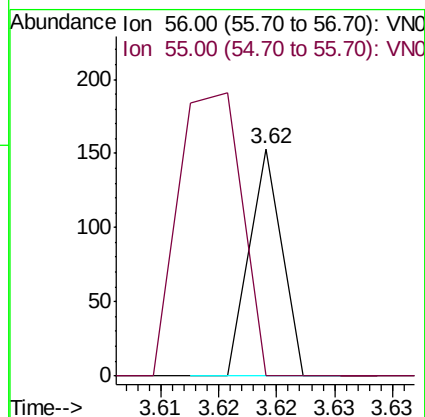
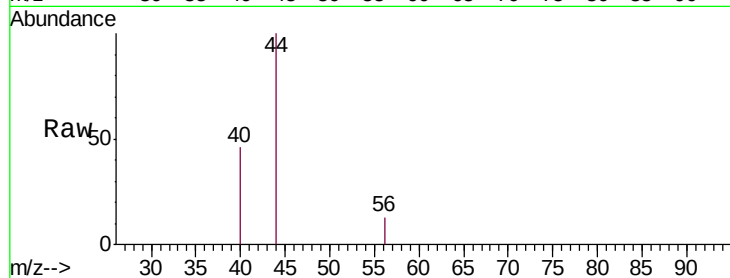
PB112098ZHE#04

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 240.0 56.3 84.5#



#16

Acetone

Concen: 9.415 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050699.D

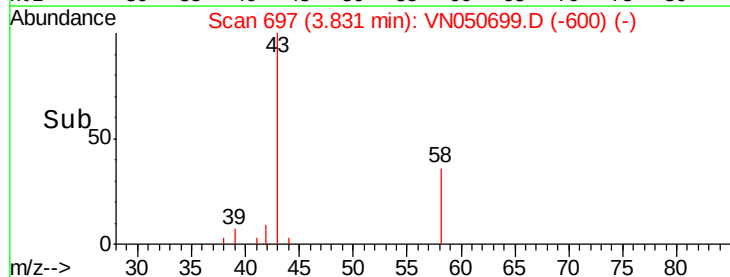
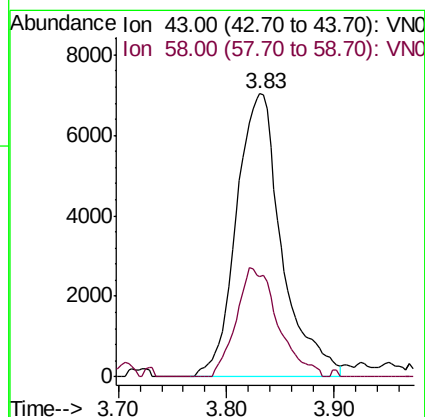
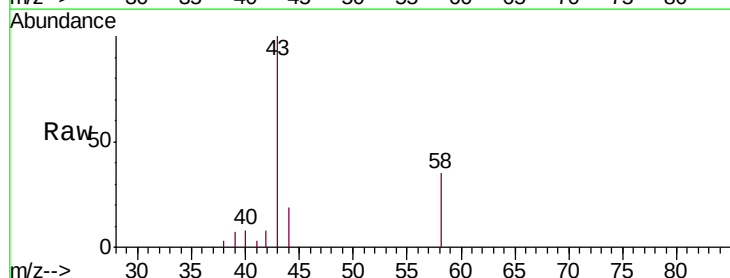
Acq: 16 Aug 2018 14:16

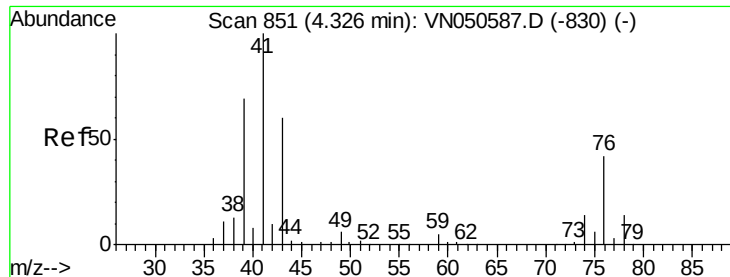
Tgt Ion: 43 Resp: 20585

Ion Ratio Lower Upper

43 100

58 35.3 27.1 40.7





#18

Methyl Acetate

Concen: 1.952 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Instrument :

MSVOA_N

ClientSampleId :

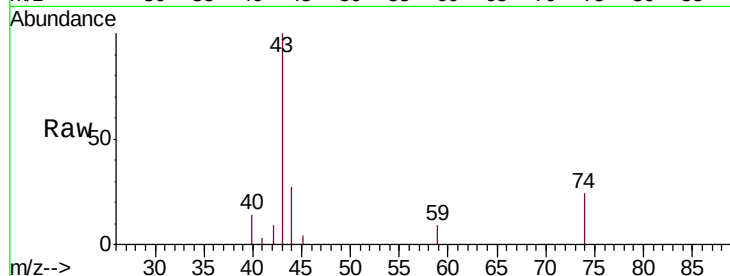
PB112098ZHE#04

Tgt Ion: 43 Resp: 15577

Ion Ratio Lower Upper

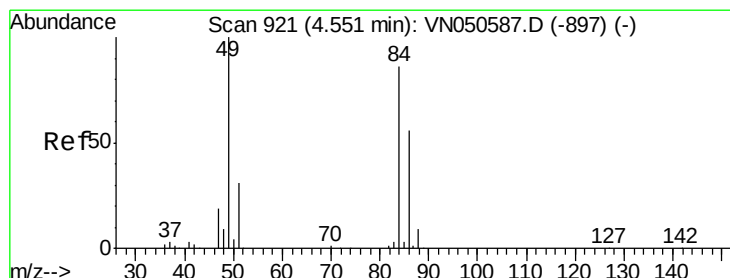
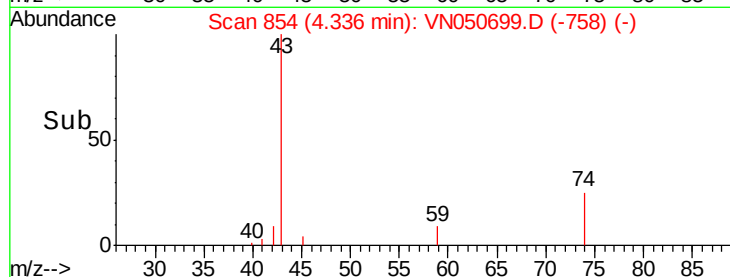
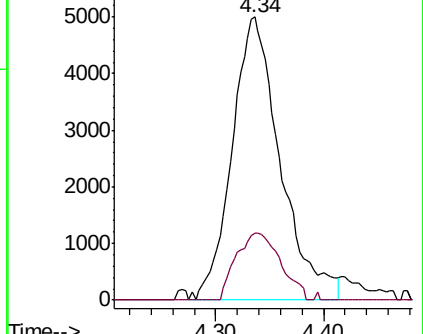
43 100

74 21.7 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN050699.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN050699.D (-758) (-)



#20

Methylene Chloride

Concen: 0.802 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Tgt Ion: 84 Resp: 14888

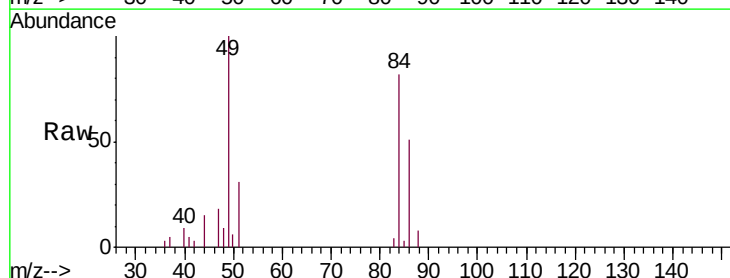
Ion Ratio Lower Upper

84 100

49 121.9 92.6 138.8

51 38.1 28.6 43.0

86 61.7 52.2 78.2

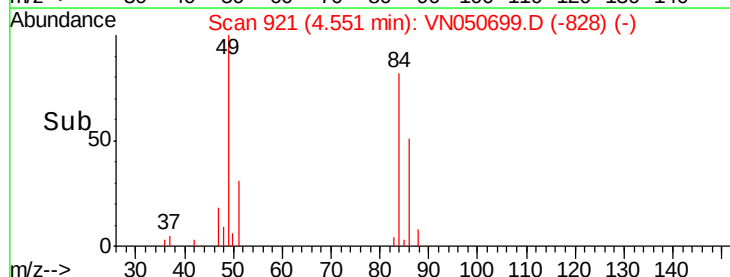
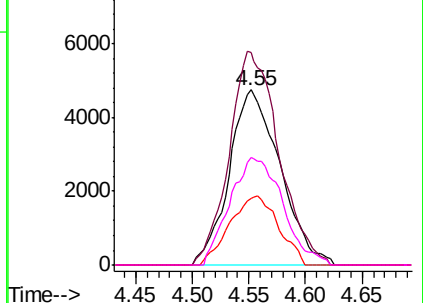


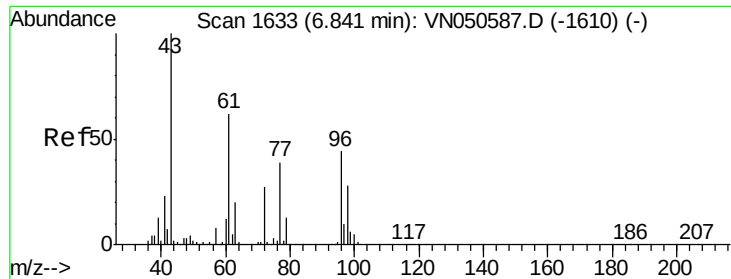
Abundance Ion 83.90 (83.60 to 84.60): VN050699.D (-828) (-)

Ion 48.90 (48.60 to 49.60): VN050699.D (-828) (-)

Ion 50.90 (50.60 to 51.60): VN050699.D (-828) (-)

Ion 85.90 (85.60 to 86.60): VN050699.D (-828) (-)

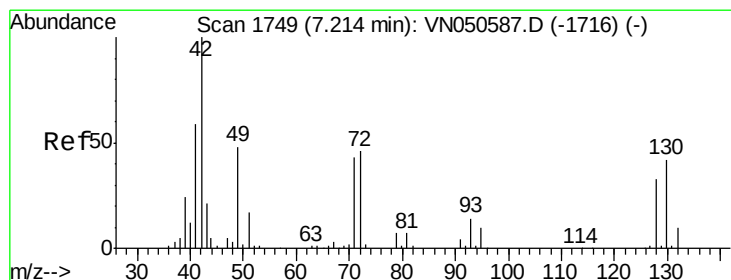
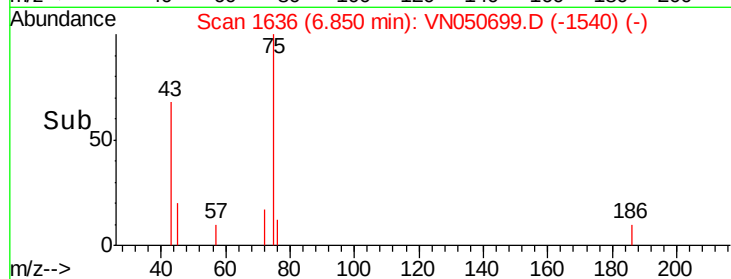
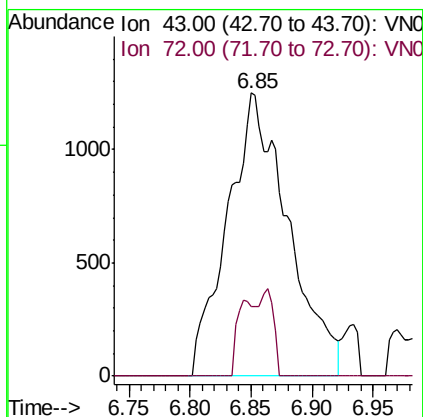
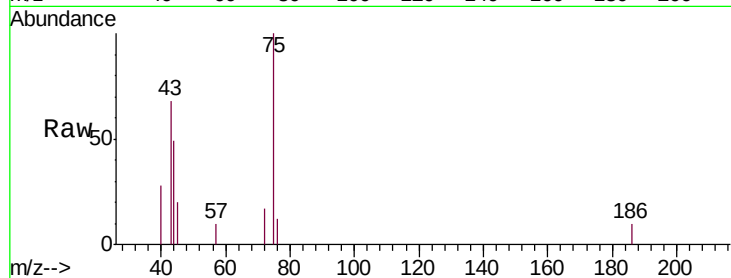




#25
2-Butanone
Concen: 1.379 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

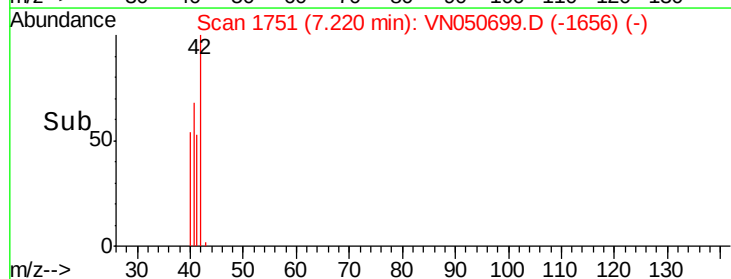
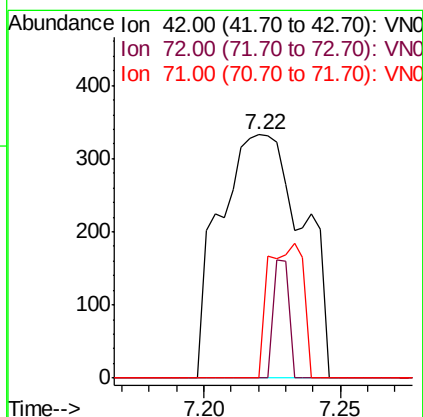
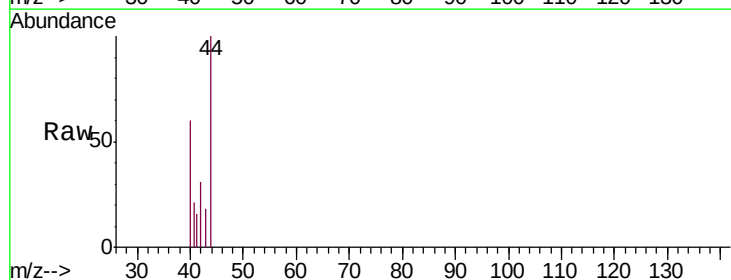
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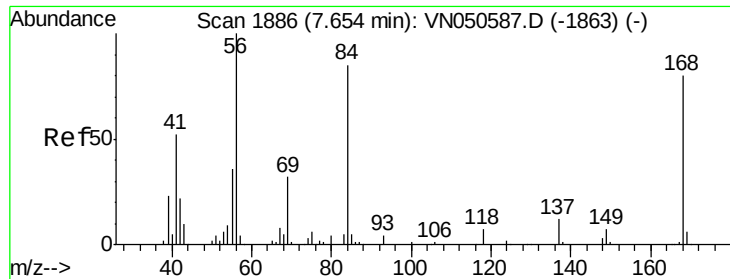
Tgt Ion: 43 Resp: 4311
Ion Ratio Lower Upper
43 100
72 24.8 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.429 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.01 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Tgt Ion: 42 Resp: 701
Ion Ratio Lower Upper
42 100
72 8.8 35.8 53.6#
71 23.4 33.4 50.0#

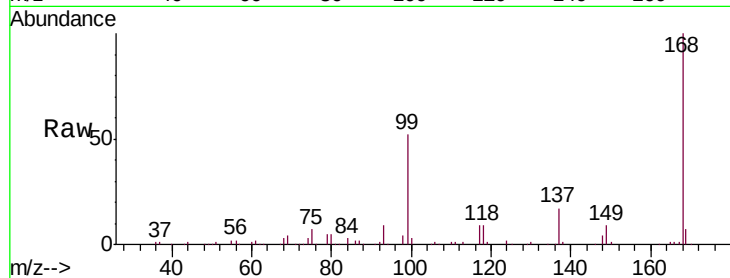




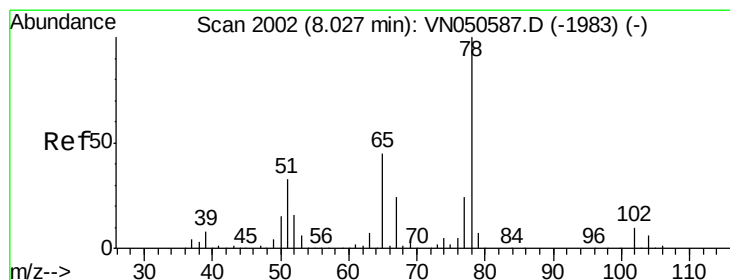
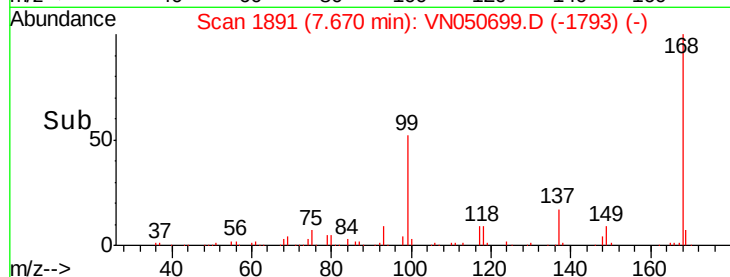
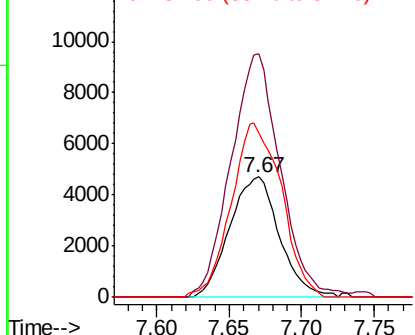
#31
Cyclohexane
Concen: 0.636 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#04

Tgt Ion: 56 Resp: 11295
Ion Ratio Lower Upper
56 100
69 201.8 25.8 38.6#
84 136.6 67.8 101.6#

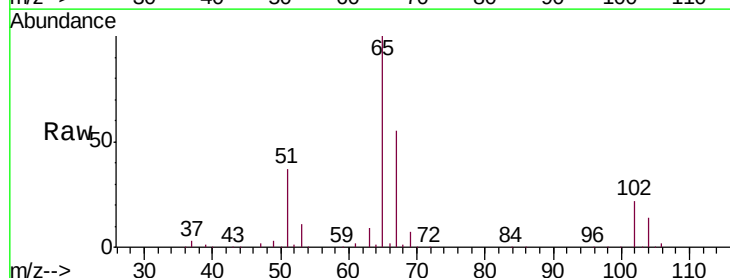


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

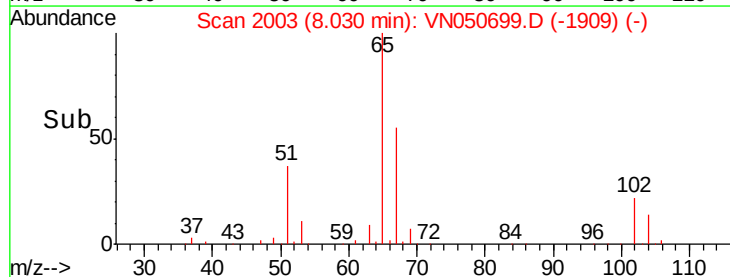
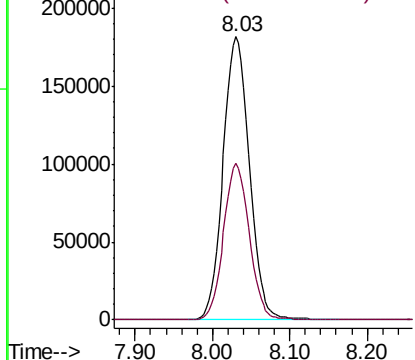


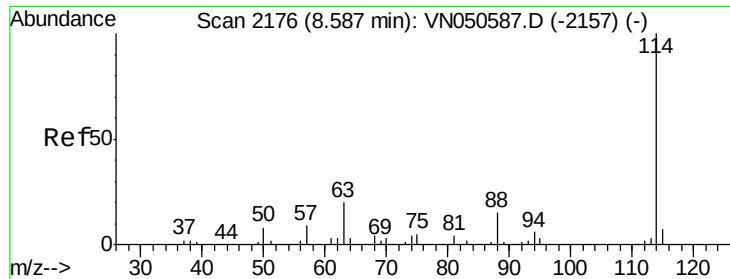
#33
1,2-Dichloroethane-d4
Concen: 56.406 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Tgt Ion: 65 Resp: 430189
Ion Ratio Lower Upper
65 100
67 54.0 0.0 109.8



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

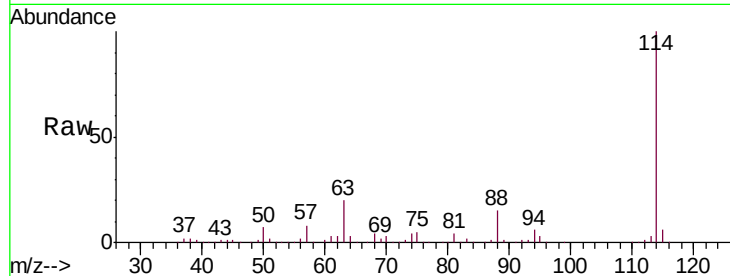




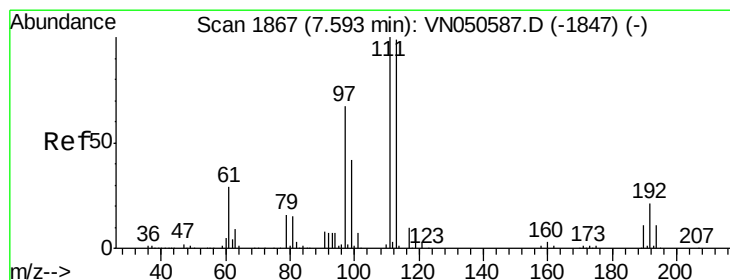
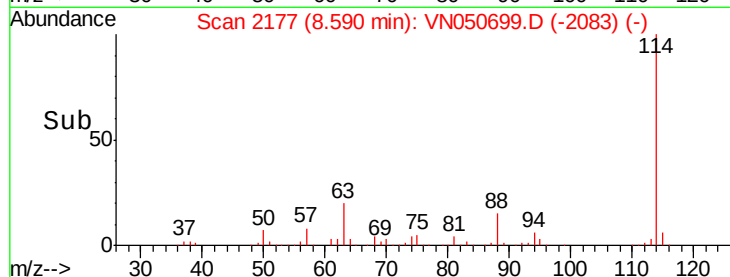
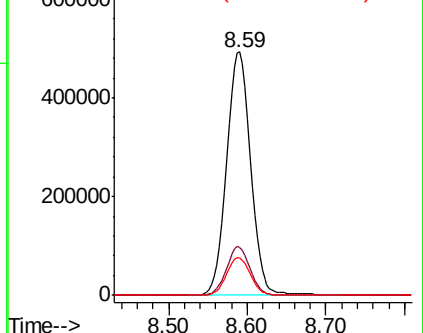
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050699.D
 Acq: 16 Aug 2018 14:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112098ZHE#04

Tgt Ion:114 Resp: 1040819
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.5 0.0 30.8

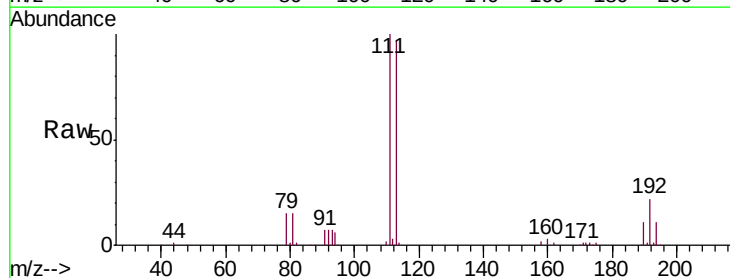


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

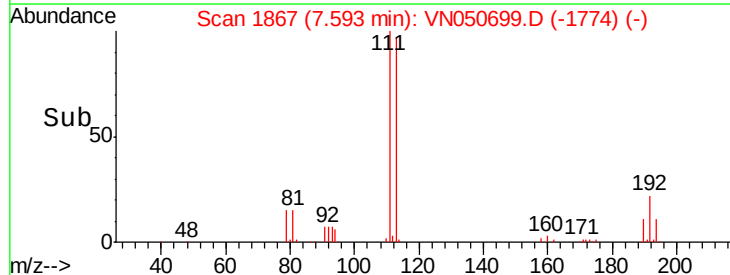
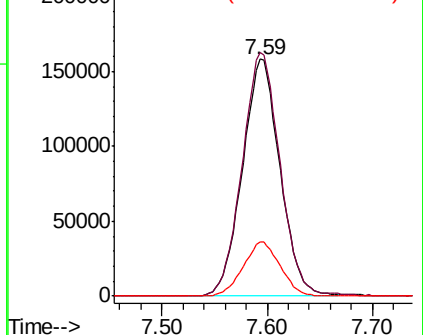


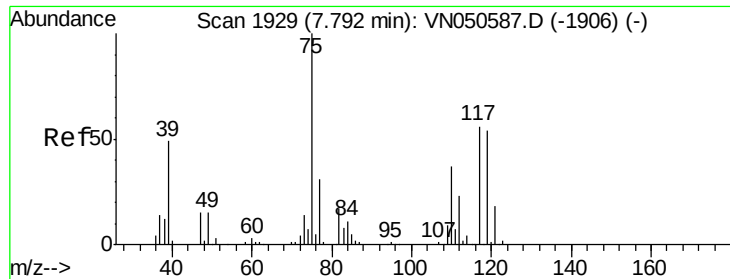
#35
 Dibromofluoromethane
 Concen: 47.178 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050699.D
 Acq: 16 Aug 2018 14:16

Tgt Ion:113 Resp: 392026
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.0 121.6
 192 22.6 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

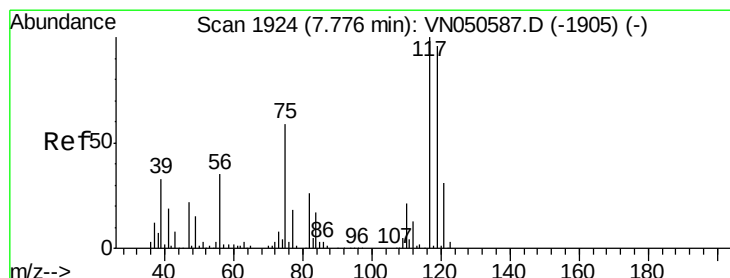
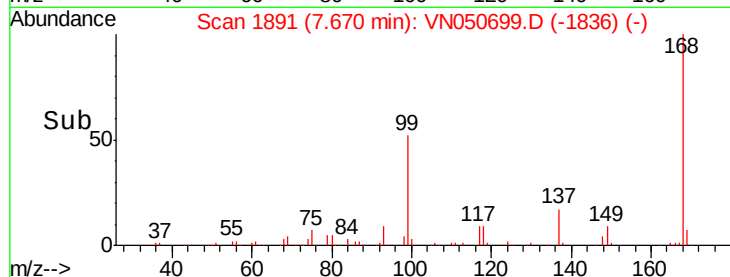
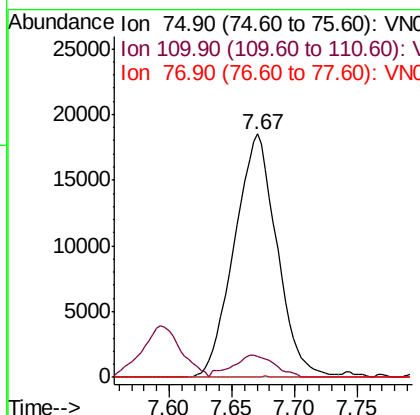
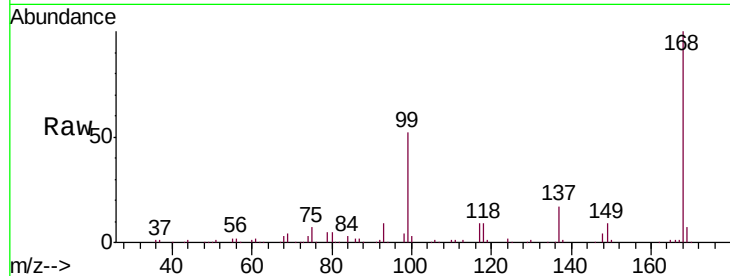




#36
 1,1-Dichloropropene
 Concen: 3.775 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050699.D
 Acq: 16 Aug 2018 14:16

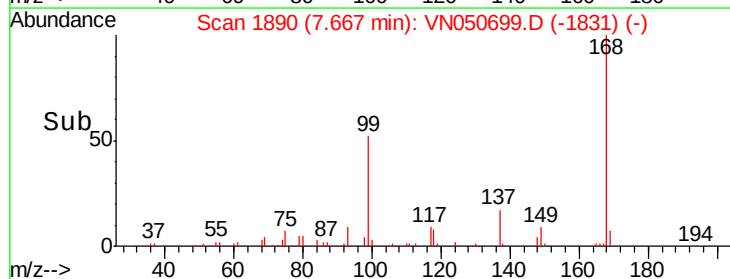
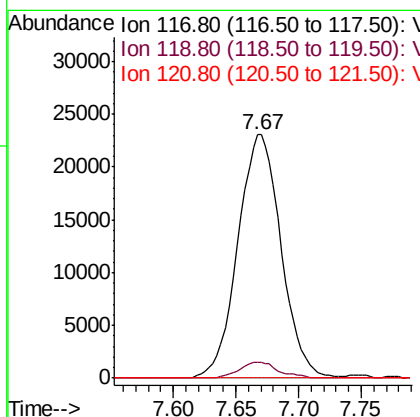
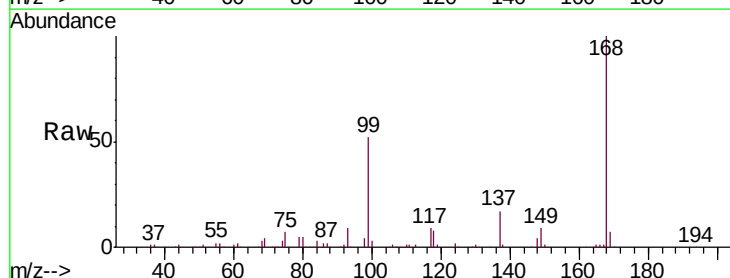
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112098ZHE#04

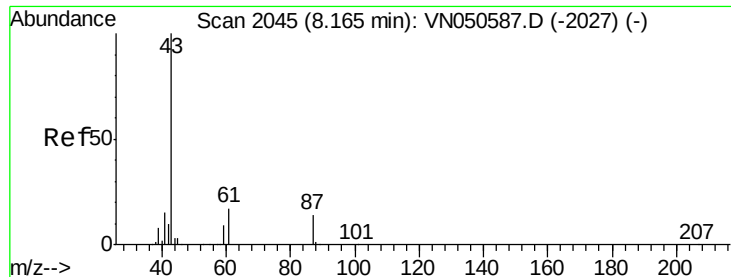
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.3	54.9#
77	0.1	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.592 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050699.D
 Acq: 16 Aug 2018 14:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.6	115.0#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 24.425 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Instrument :

MSVOA_N

ClientSampleId :

PB112098ZHE#04

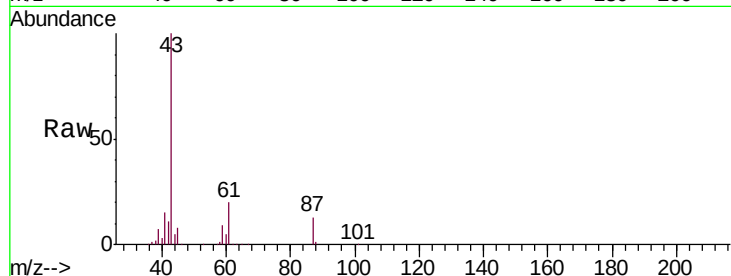
Tgt Ion: 43 Resp: 291524

Ion Ratio Lower Upper

43 100

61 17.7 16.2 24.2

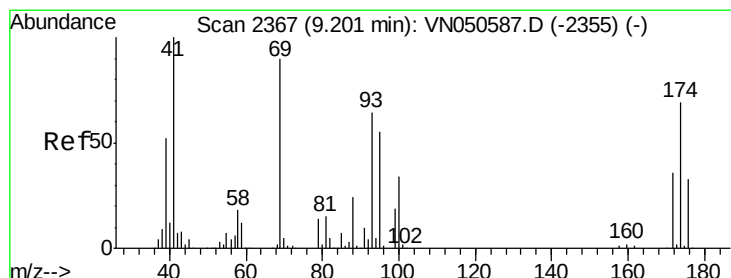
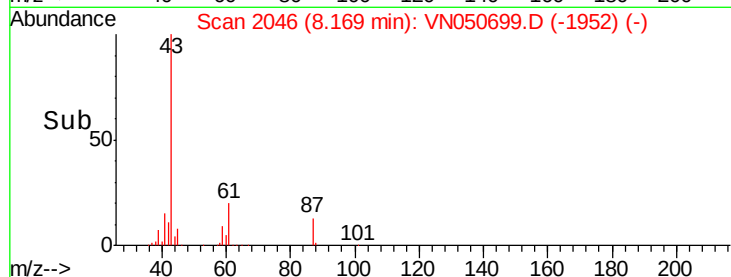
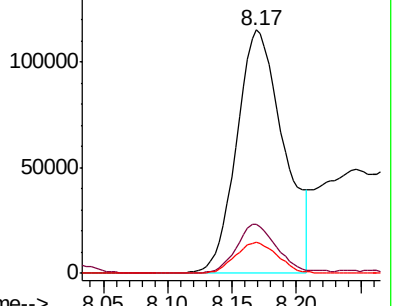
87 11.6 10.9 16.3



Abundance Ion 43.00 (42.70 to 43.70): VN050587.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN050587.D (-2027) (-)

Ion 87.00 (86.70 to 87.70): VN050587.D (-2027) (-)



#48

Methyl methacrylate

Concen: 1.160 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

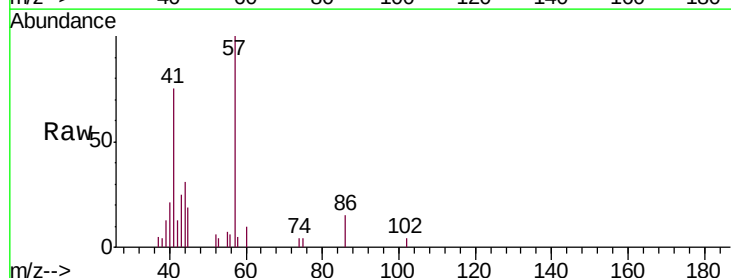
Tgt Ion: 41 Resp: 6969

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

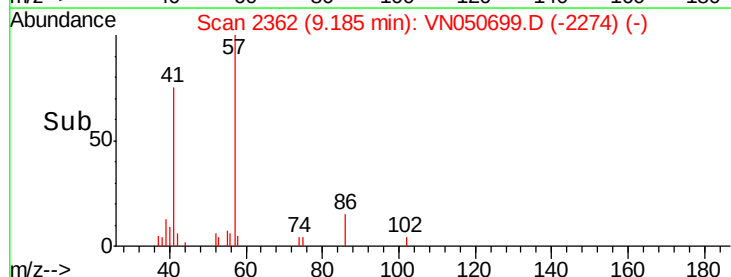
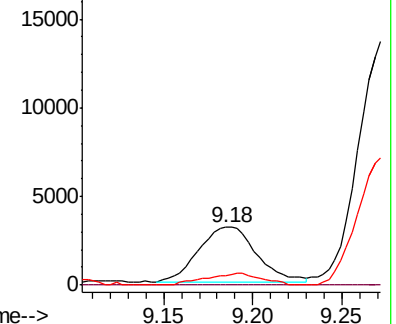
39 20.8 43.0 64.6#

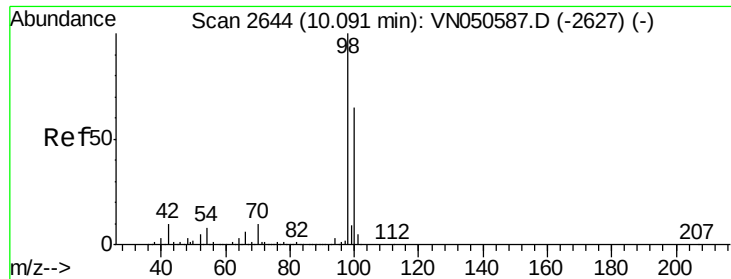


Abundance Ion 41.00 (40.70 to 41.70): VN050587.D (-2355) (-)

Ion 69.00 (68.70 to 69.70): VN050587.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN050587.D (-2355) (-)

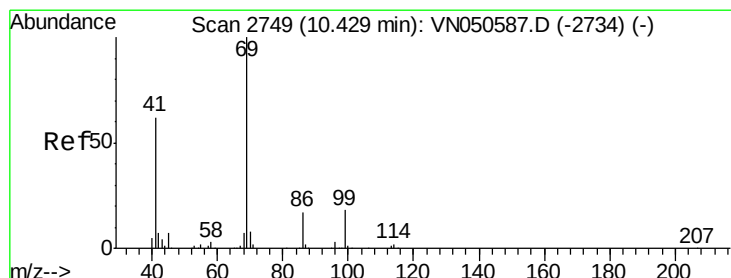
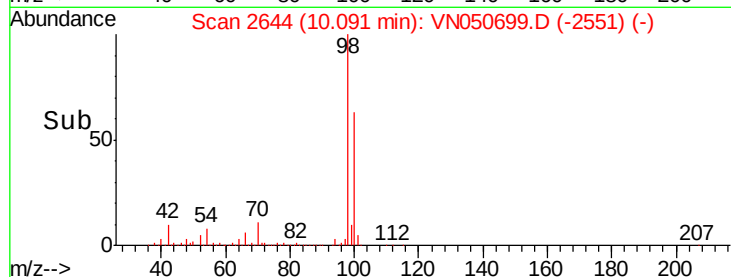
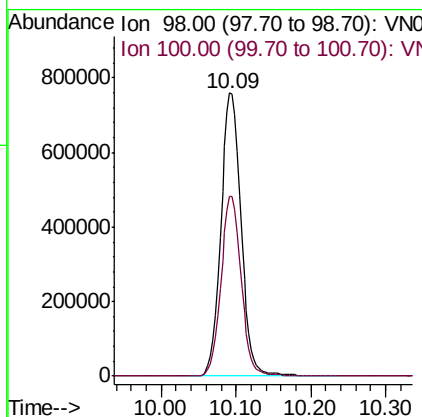
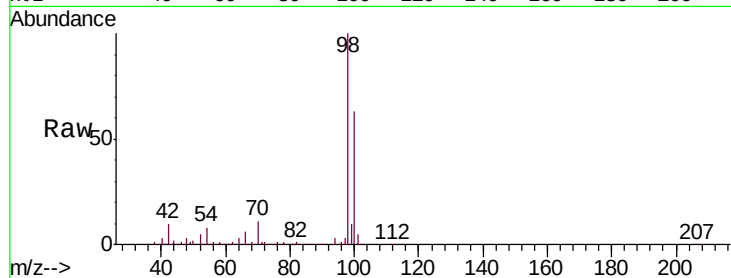




#50
Toluene-d8
Concen: 45.262 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

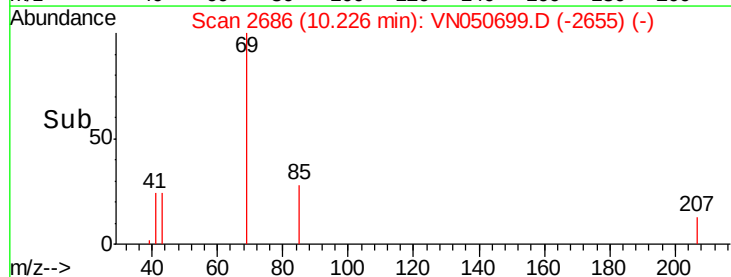
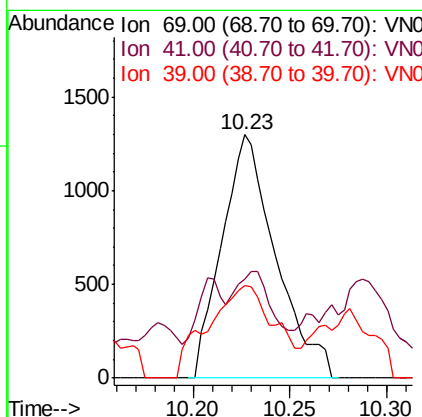
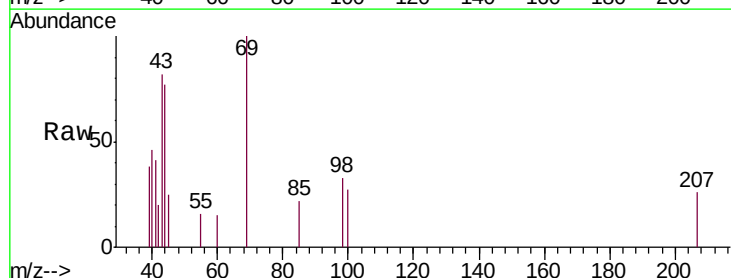
Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#04

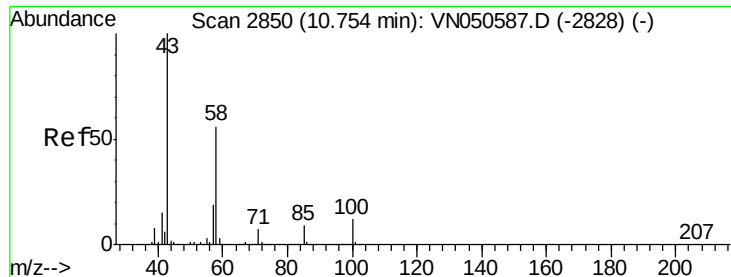
Tgt Ion: 98 Resp: 1415485
Ion Ratio Lower Upper
98 100
100 63.5 51.8 77.8



#56
Ethyl methacrylate
Concen: 2.145 ug/l
RT: 10.23 min Scan# 2686
Delta R.T. -0.20 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Tgt Ion: 69 Resp: 2509
Ion Ratio Lower Upper
69 100
41 33.4 49.7 74.5#
39 46.7 24.2 36.2#

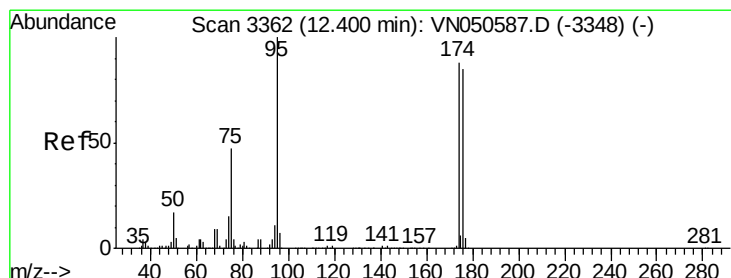
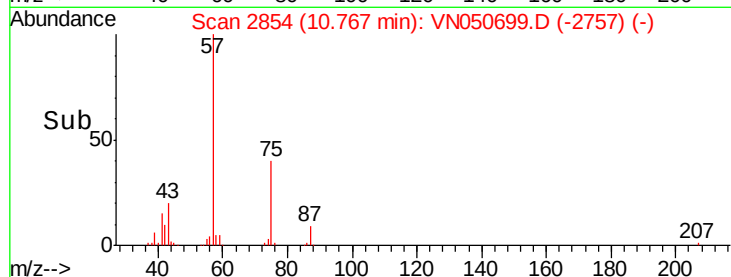
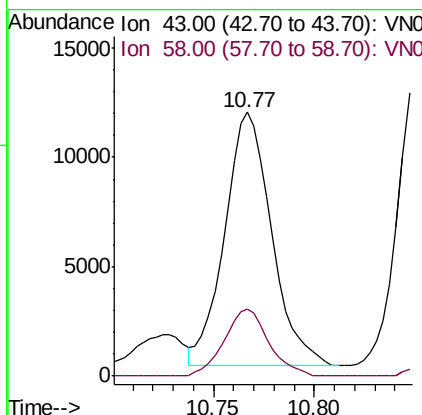
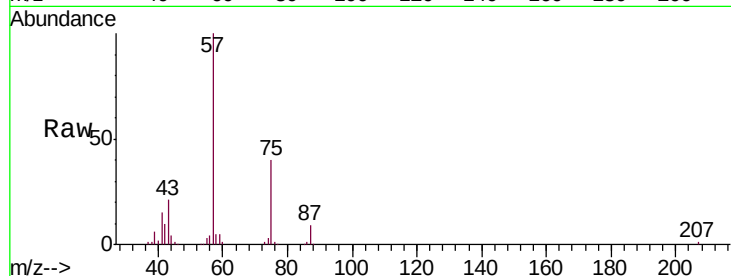




#59
2-Hexanone
Concen: 3.631 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

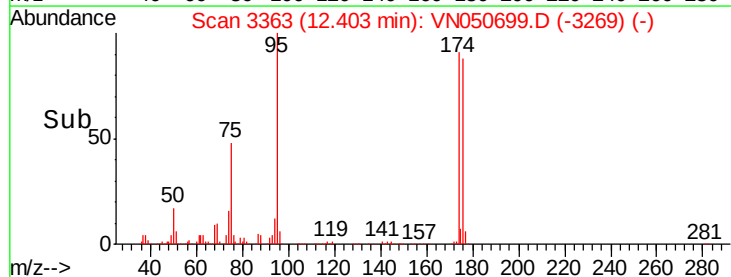
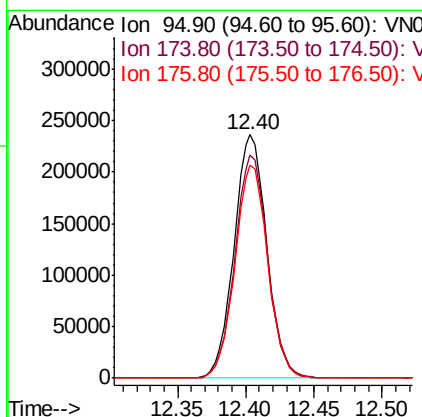
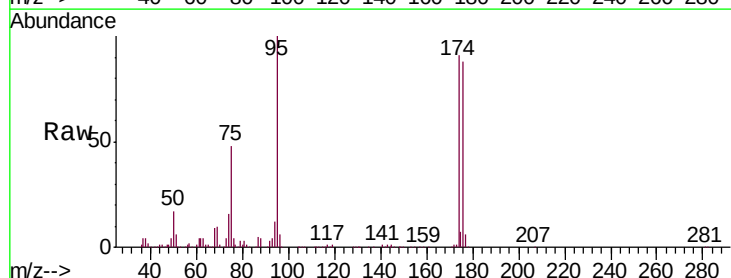
Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#04

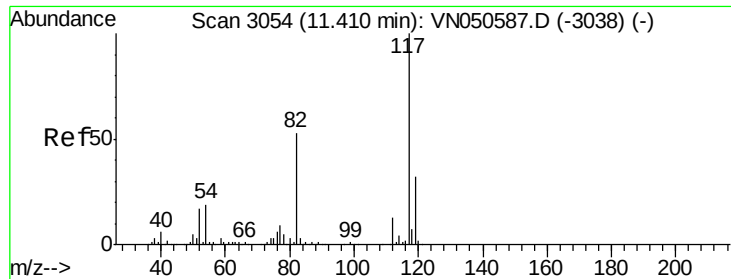
Tgt Ion: 43 Resp: 18916
Ion Ratio Lower Upper
43 100
58 25.0 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 37.965 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Tgt Ion: 95 Resp: 392236
Ion Ratio Lower Upper
95 100
174 92.6 0.0 177.8
176 87.9 0.0 175.0

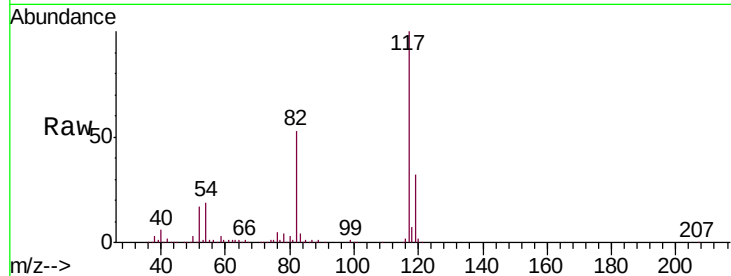




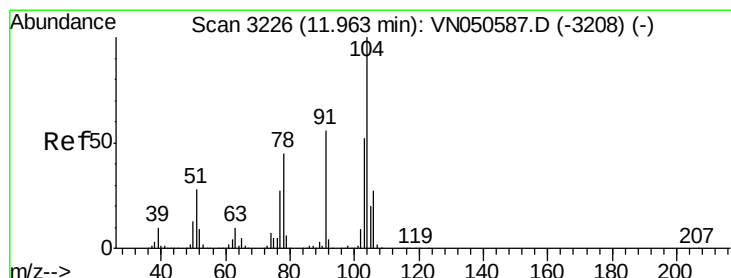
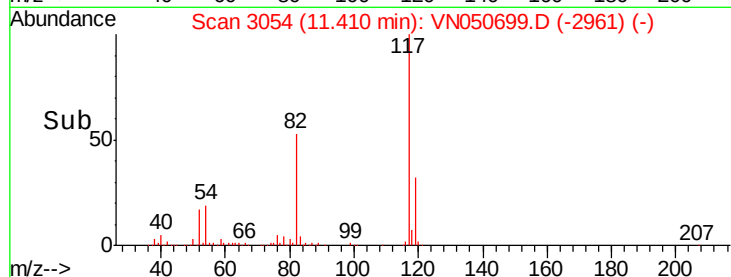
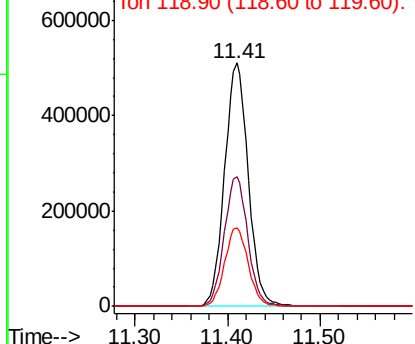
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#04

Tgt Ion:117 Resp: 901188
Ion Ratio Lower Upper
117 100
82 53.2 42.4 63.6
119 32.4 25.8 38.8

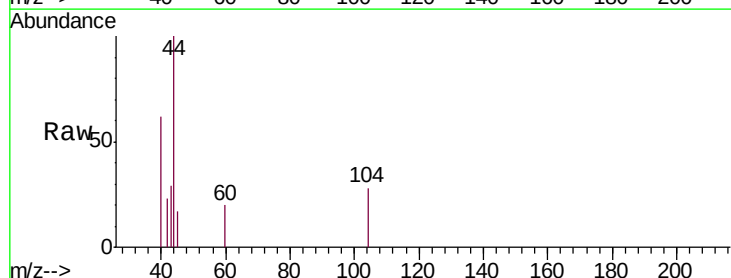


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

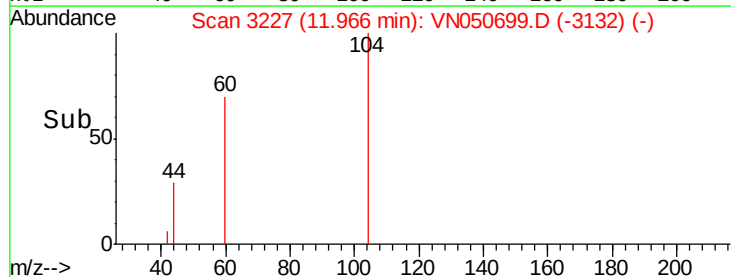
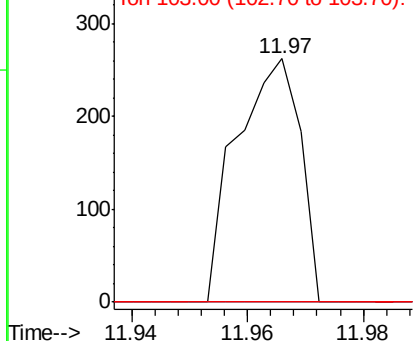


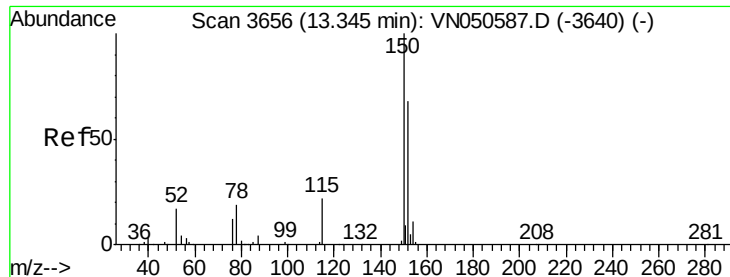
#70
Styrene
Concen: 0.949 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Tgt Ion:104 Resp: 199
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Instrument :

MSVOA_N

ClientSampleId :

PB112098ZHE#04

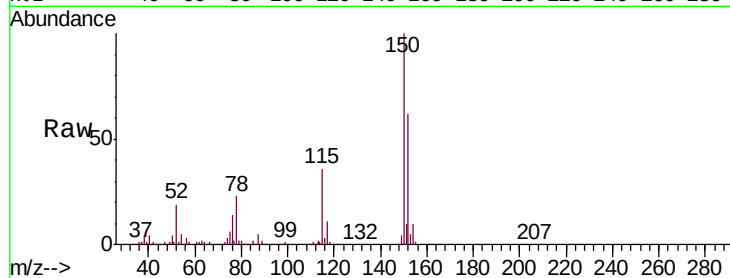
Tgt Ion:152 Resp: 318306

Ion Ratio Lower Upper

152 100

115 57.0 28.1 84.2

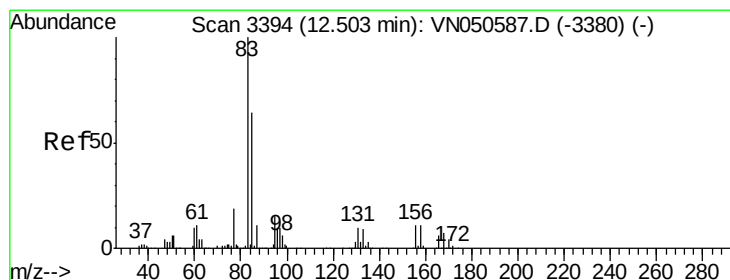
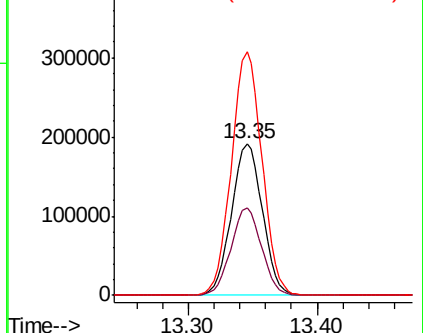
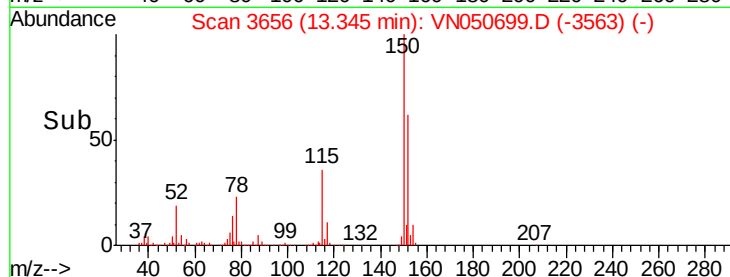
150 158.8 0.0 347.8



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: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

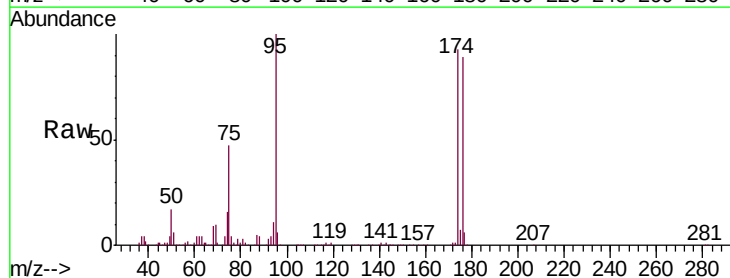
Tgt Ion: 83 Resp: 205

Ion Ratio Lower Upper

83 100

131 210.2 5.3 15.9#

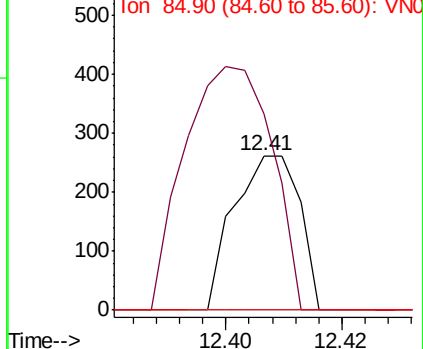
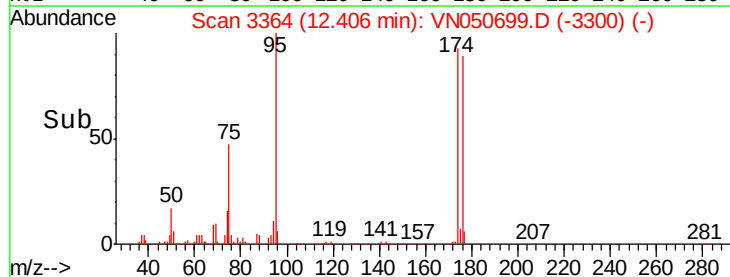
85 0.0 32.1 96.5#

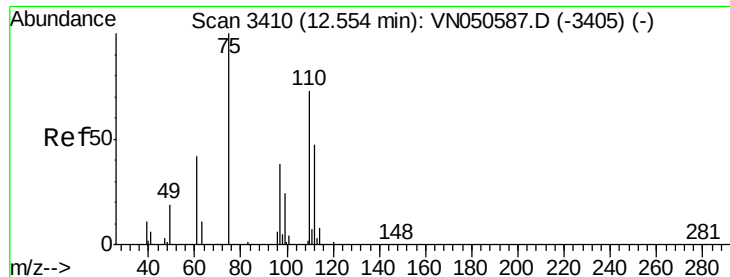


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.972 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

Instrument :

MSVOA_N

ClientSampleId :

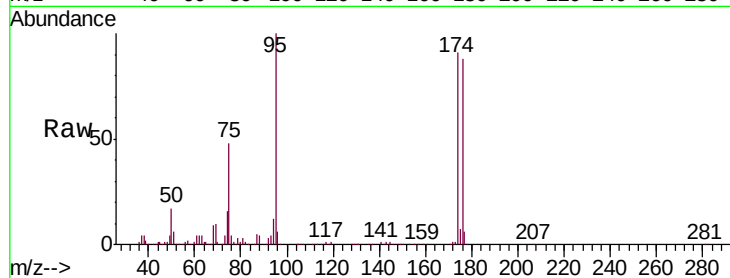
PB112098ZHE#04

Tgt Ion: 75 Resp: 186478

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

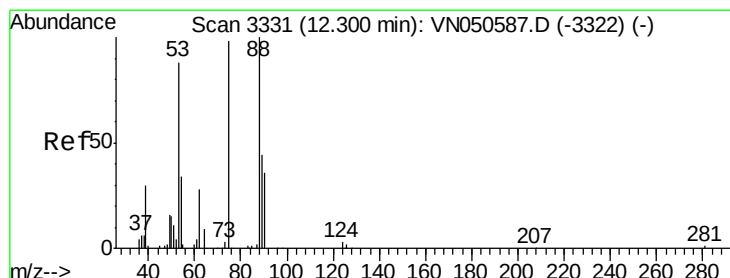
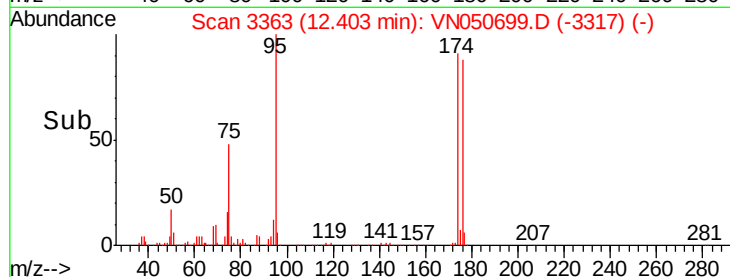
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 130.246 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050699.D

Acq: 16 Aug 2018 14:16

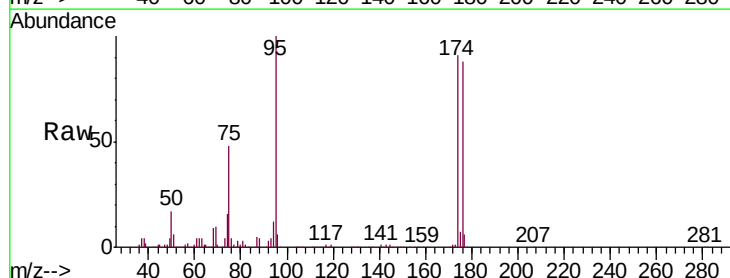
Tgt Ion: 75 Resp: 186478

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

150000

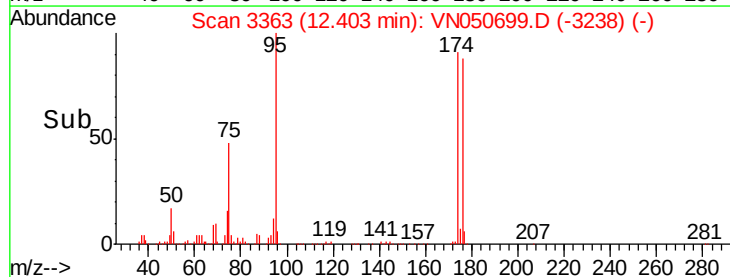
100000

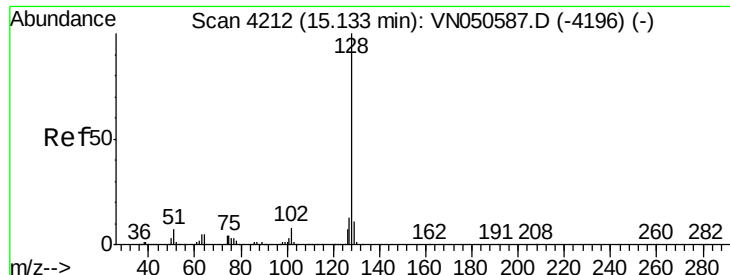
50000

0

12.35 12.40 12.45

Time-->





#95
Naphthalene
Concen: 3.872 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN050699.D
Acq: 16 Aug 2018 14:16

Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#04

Tgt Ion:128 Resp: 142
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.5 12.7#

