

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050806.D
 Acq On : 22 Aug 2018 1:53
 Operator : MD\SY
 Sample : PB112227ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#12

Quant Time: Aug 22 06:46:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	643220	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1085316	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	915741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	313065	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	433665	56.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.00%	
35) Dibromofluoromethane	7.59	113	410953	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	
50) Toluene-d8	10.09	98	1472638	45.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.24%	
62) 4-Bromofluorobenzene	12.40	95	394586	36.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.56%	

Target Compounds

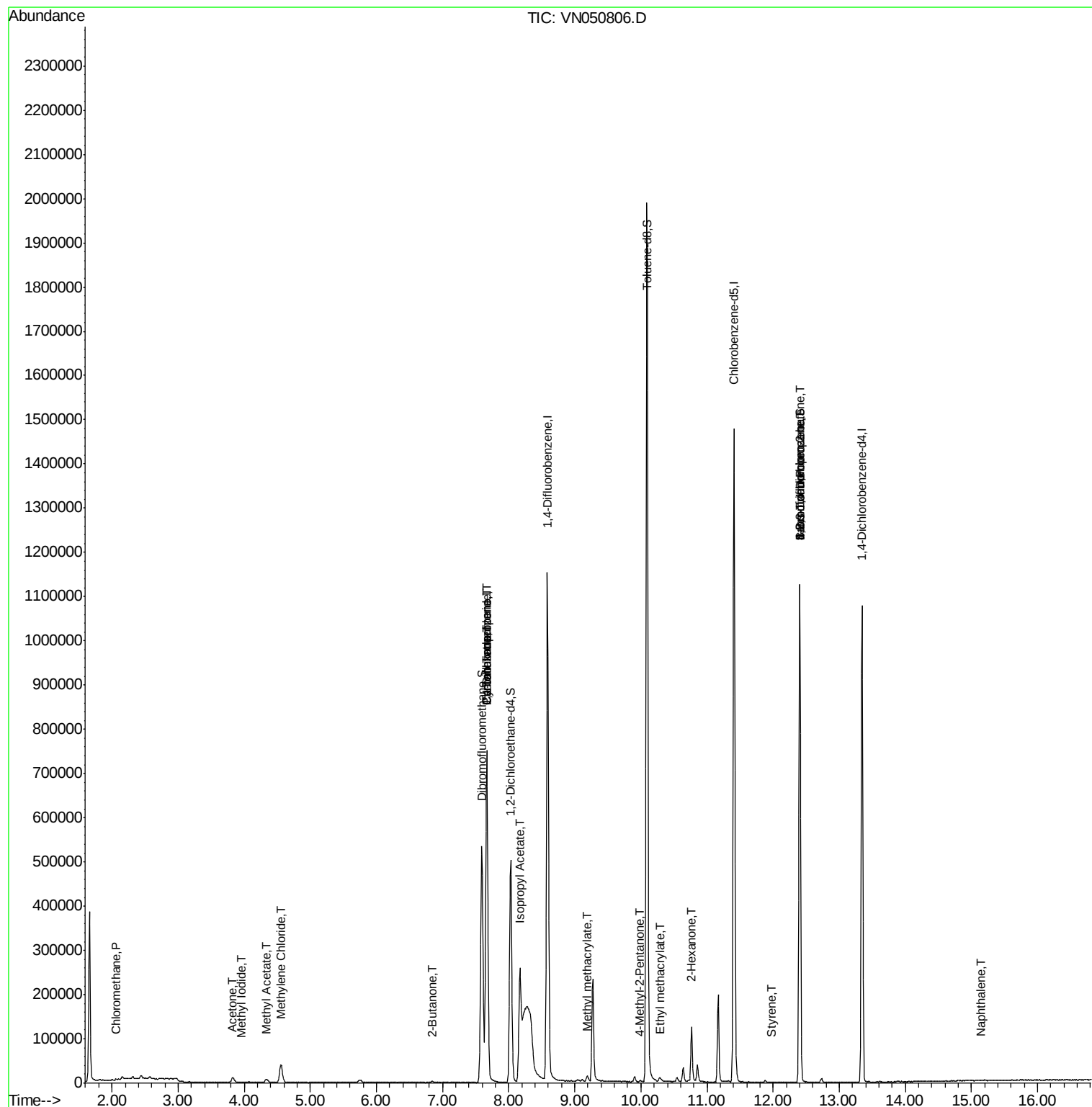
					Qvalue
3) Chloromethane	2.06	50	2596	0.245 ug/l	94
5) Bromomethane	2.57	94	2998	Below Cal	81
10) Methyl Iodide	3.95	142	318	6.380 ug/l #	43
16) Acetone	3.83	43	21904	5.023 ug/l	98
18) Methyl Acetate	4.34	43	16960	2.319 ug/l	95
20) Methylene Chloride	4.55	84	32479	3.722 ug/l	95
25) 2-Butanone	6.86	43	2873	0.921 ug/l #	89
31) Cyclohexane	7.67	56	11218	1.310 ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44602	3.483 ug/l #	49
38) Carbon Tetrachloride	7.67	117	57786	4.464 ug/l #	17
43) Isopropyl Acetate	8.17	43	331647	26.219 ug/l #	89
48) Methyl methacrylate	9.18	41	7526	1.167 ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	2313	0.306 ug/l	95
56) Ethyl methacrylate	10.30	69	66	2.355 ug/l #	28
59) 2-Hexanone	10.77	43	17126	3.408 ug/l #	54
70) Styrene	11.96	104	108	1.274 ug/l #	54
71) Bromoform	12.40	173	3616	0.600 ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	183414	33.449 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183414	113.078 ug/l #	15
95) Naphthalene	15.14	128	192	5.414 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: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

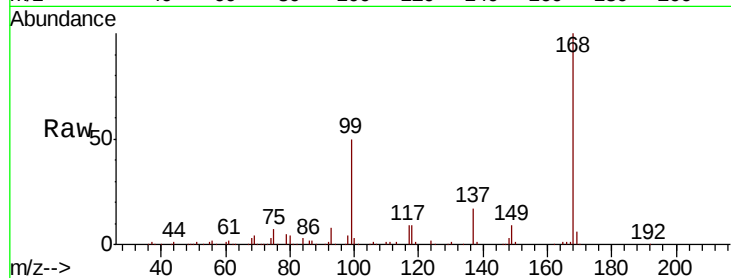
PB112227ZHE#12

Tot Ion:168 Resp: 643220

Ion Ratio Lower Upper

168 100

99 49.8 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

150000

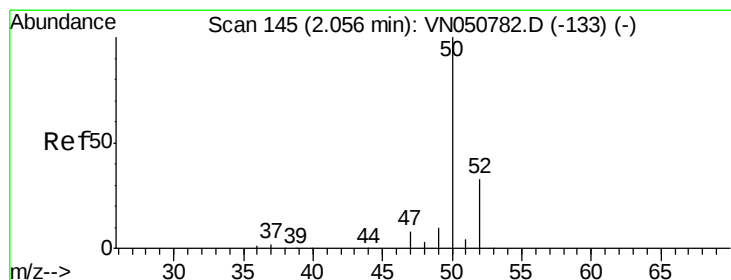
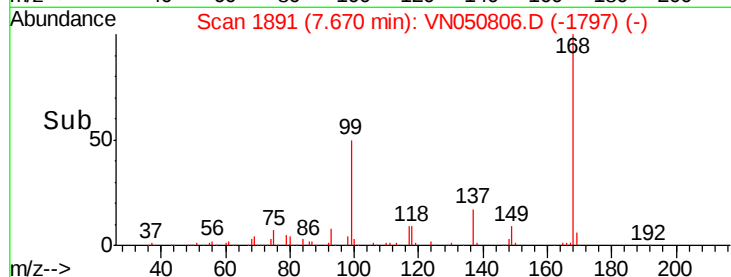
100000

50000

0

Time-->

7.60 7.70



#3

Chloromethane

Concen: 0.245 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050806.D

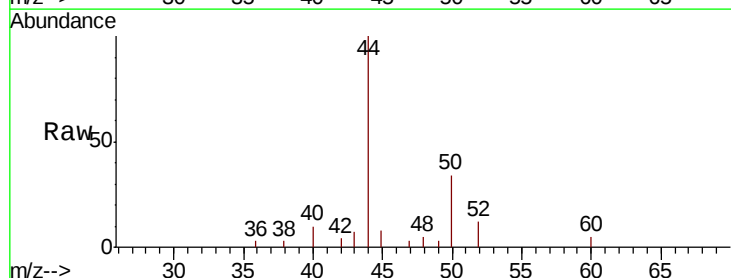
Acq: 22 Aug 2018 1:53

Tgt Ion: 50 Resp: 2596

Ion Ratio Lower Upper

50 100

52 36.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

2000

1500

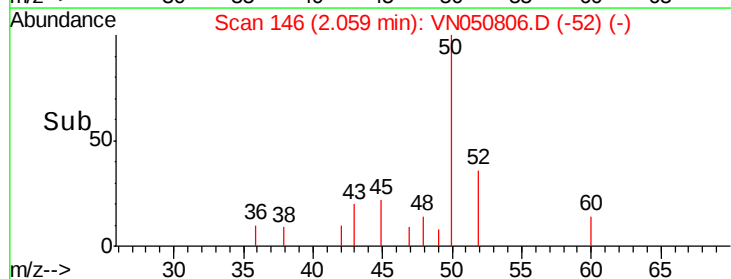
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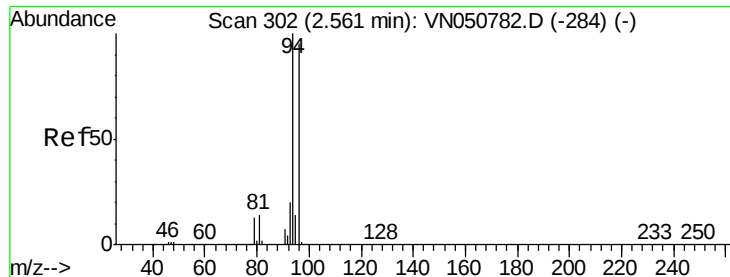
500

0

Time-->

2.05 2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

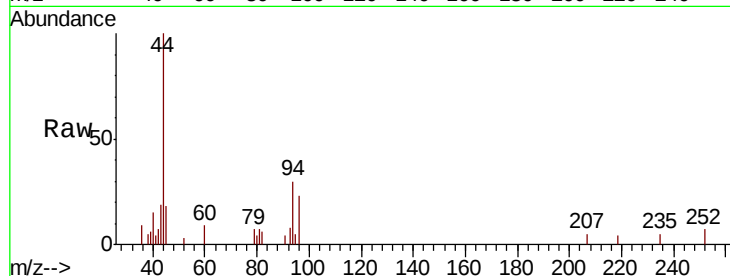
PB112227ZHE#12

Tot Ion: 94 Resp: 2998

Ion Ratio Lower Upper

94 100

96 76.3 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050782.D (-284) (-)

Time-->

2.57

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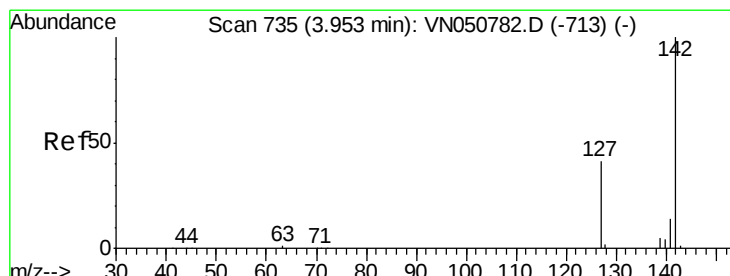
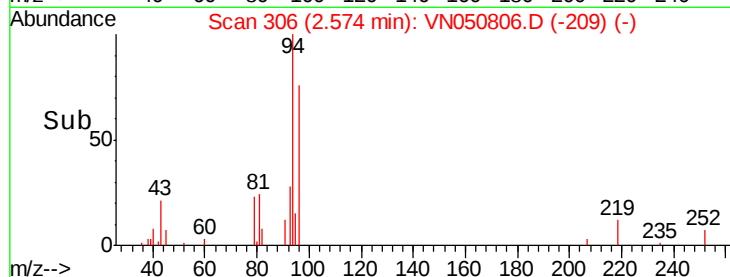
2.57

2.57

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2.57

2.57



#10

Methyl Iodide

Concen: 6.380 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

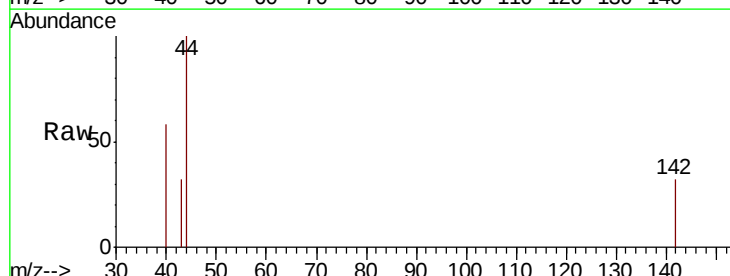
Tgt Ion: 142 Resp: 318

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050782.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050782.D (-713) (-)

Time-->

3.95

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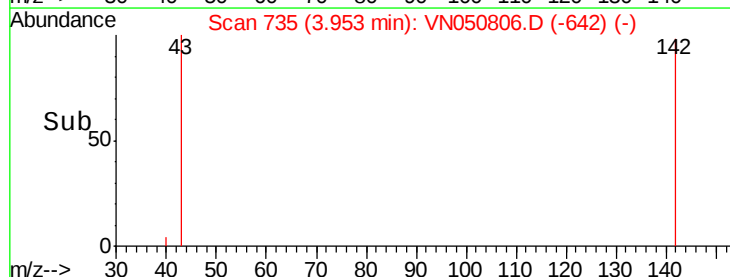
3.95

3.95

3.95

3.95

3.95





#16

Acetone

Concen: 5.023 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

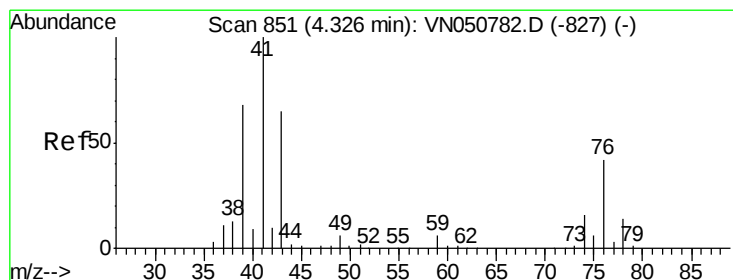
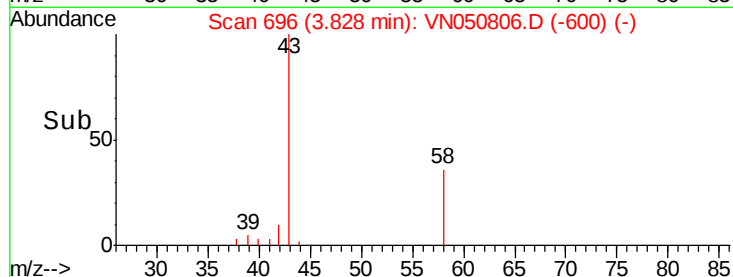
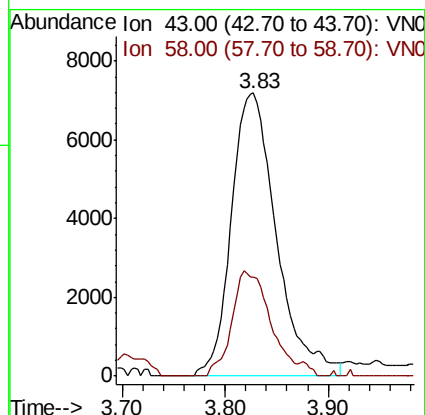
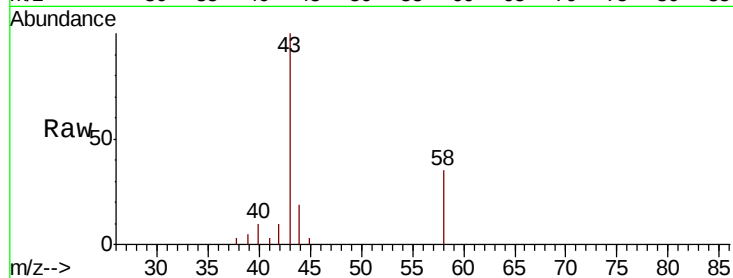
PB112227ZHE#12

Tot Ion: 43 Resp: 21904

Ion Ratio Lower Upper

43 100

58 35.2 27.2 40.8



#18

Methyl Acetate

Concen: 2.319 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050806.D

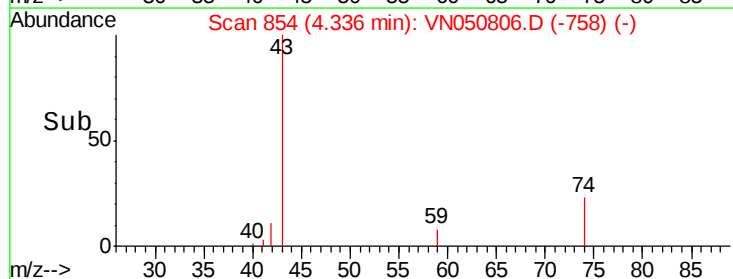
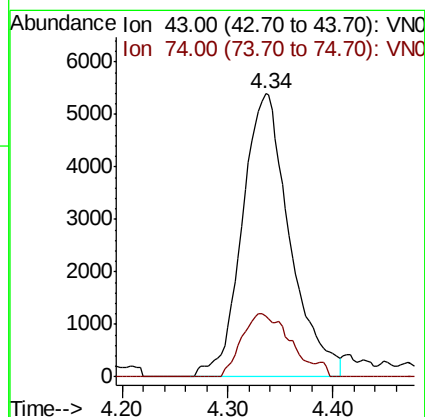
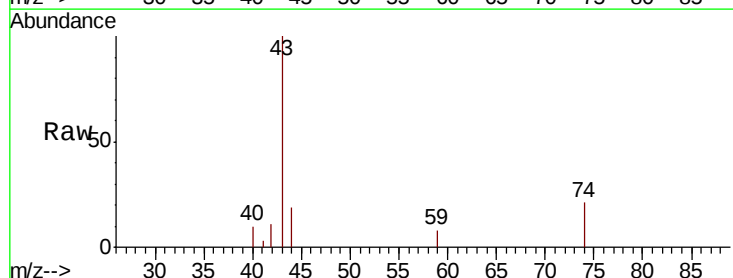
Acq: 22 Aug 2018 1:53

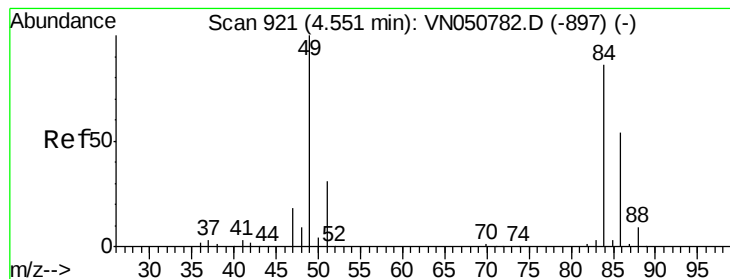
Tgt Ion: 43 Resp: 16960

Ion Ratio Lower Upper

43 100

74 22.4 19.8 29.8





#20

Methylene Chloride

Concen: 3.722 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#12

Tot Ion: 84 Resp: 32479

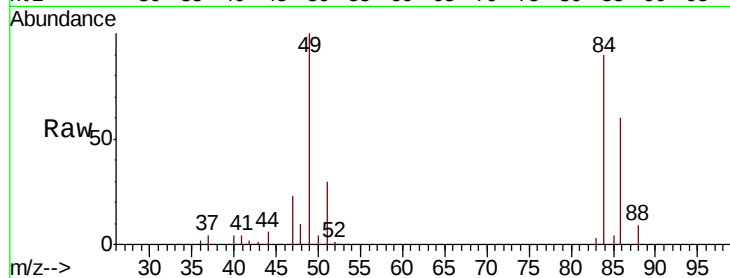
Ion Ratio Lower Upper

84 100

49 111.7 93.2 139.8

51 33.6 29.0 43.6

86 67.1 49.8 74.8

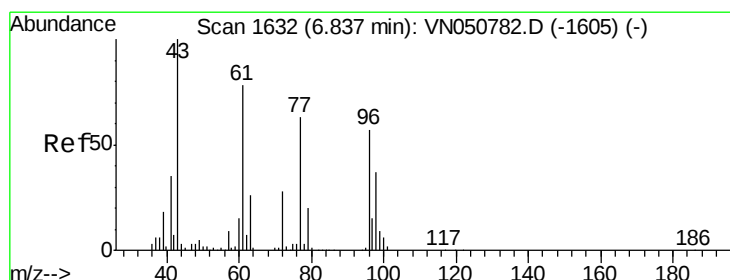
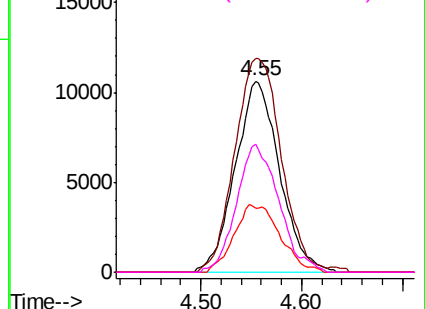
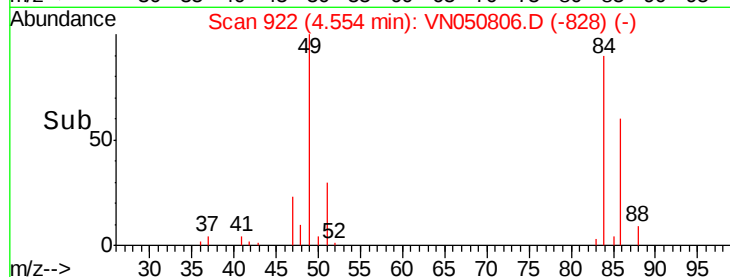


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.921 ug/l

RT: 6.86 min Scan# 1639

Delta R.T. 0.02 min

Lab File: VN050806.D

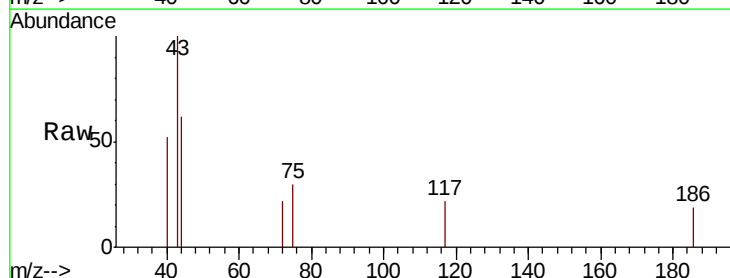
Acq: 22 Aug 2018 1:53

Tgt Ion: 43 Resp: 2873

Ion Ratio Lower Upper

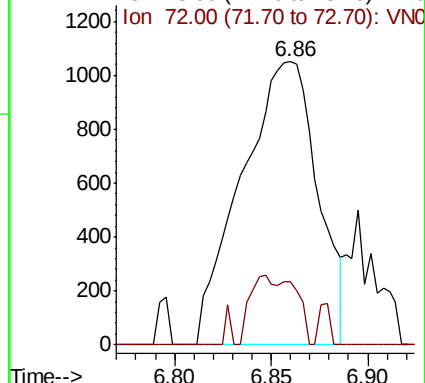
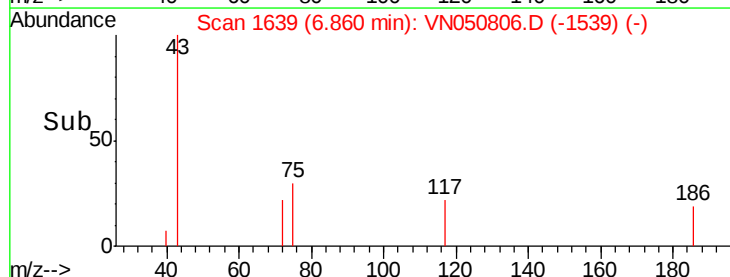
43 100

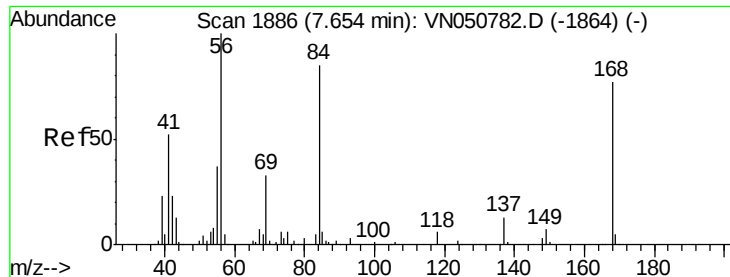
72 22.2 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

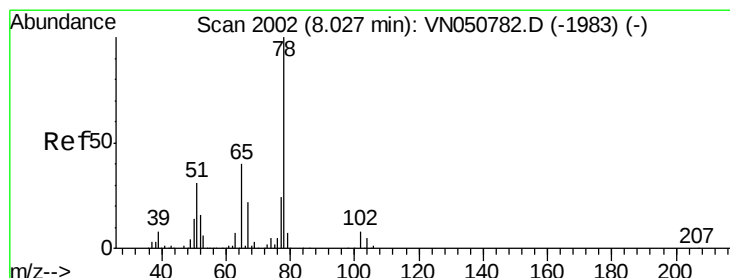
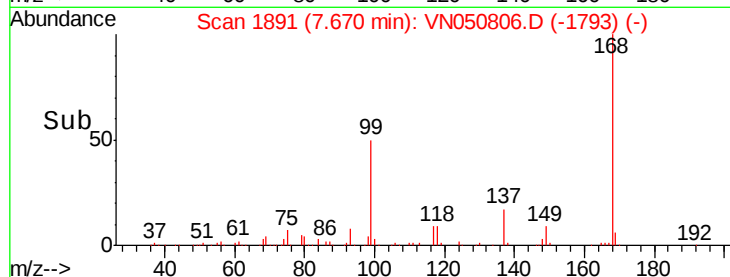
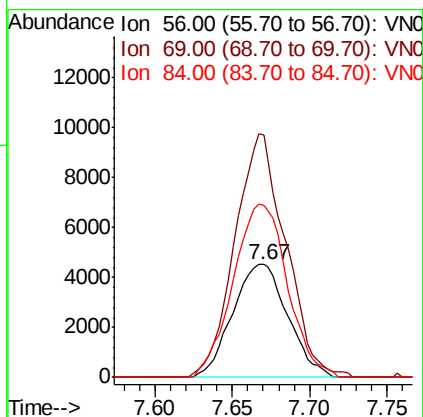
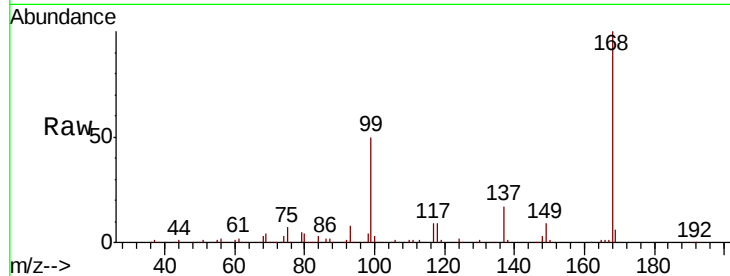




#31
Cyclohexane
Concen: 1.310 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050806.D
Acq: 22 Aug 2018 1:53

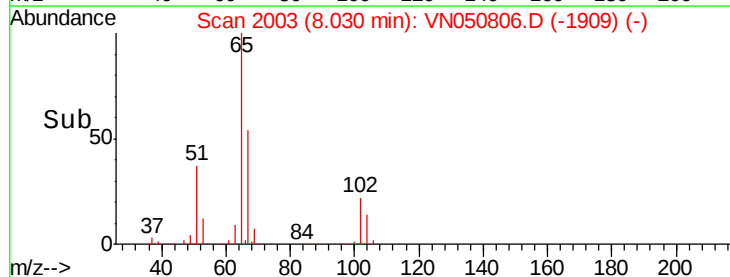
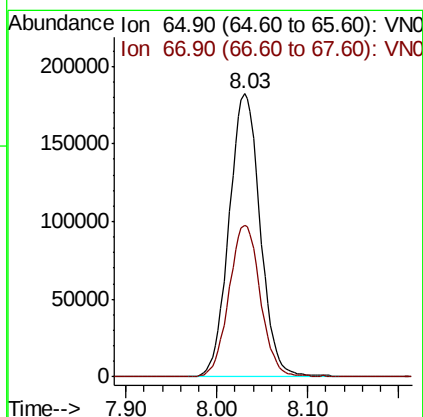
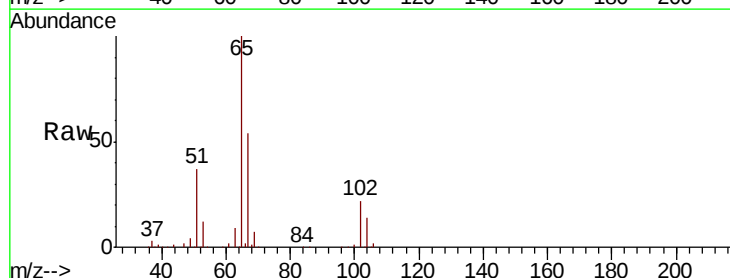
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#12

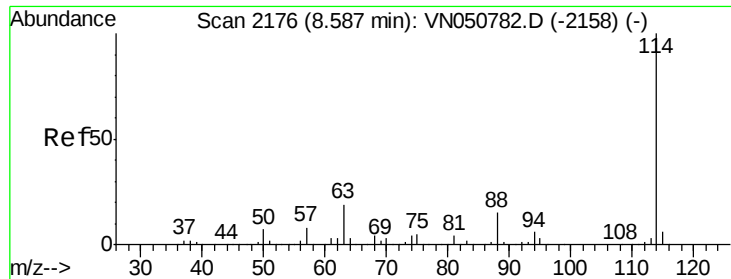
Tot Ion: 56 Resp: 11218
Ion Ratio Lower Upper
56 100
69 214.1 26.2 39.4#
84 152.1 68.3 102.5#



#33
1,2-Dichloroethane-d4
Concen: 56.004 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050806.D
Acq: 22 Aug 2018 1:53

Tgt Ion: 65 Resp: 433665
Ion Ratio Lower Upper
65 100
67 54.1 0.0 110.4

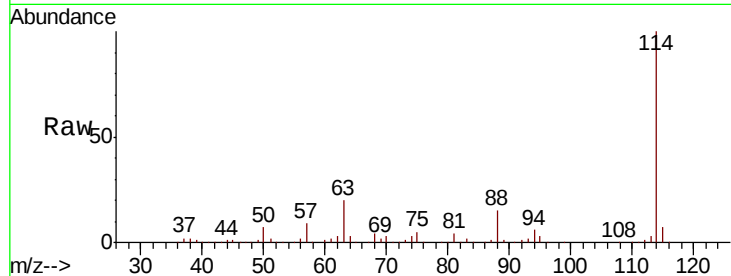




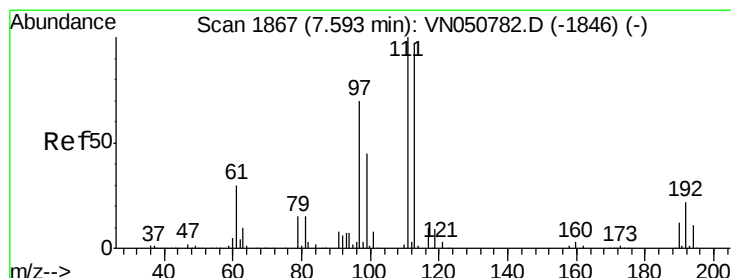
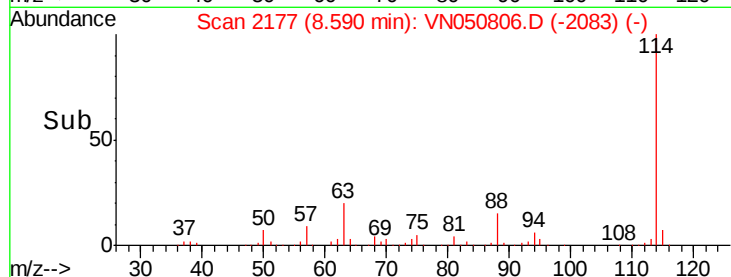
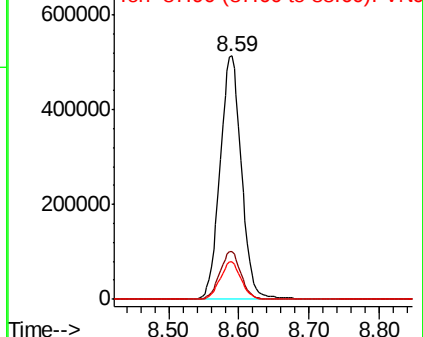
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050806.D
 Acq: 22 Aug 2018 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#12

Tot Ion:114 Resp: 1085316
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.6
 88 15.5 0.0 30.6

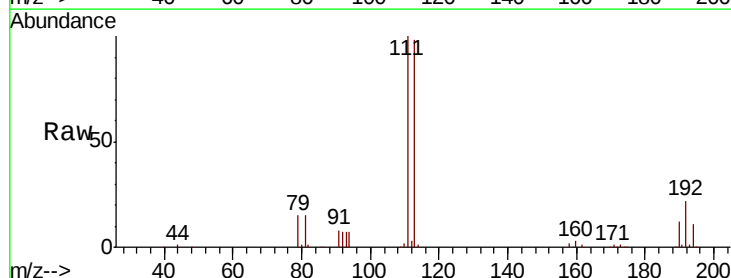


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

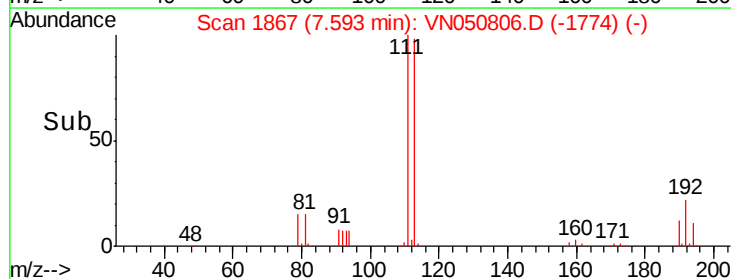
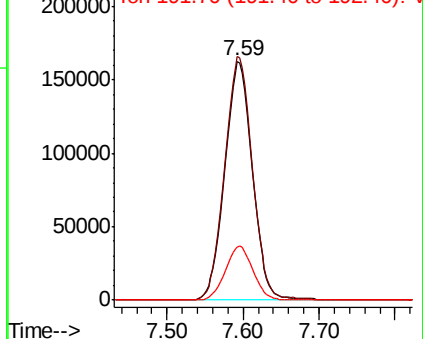


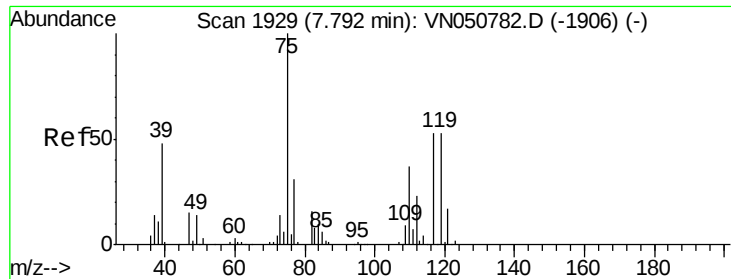
#35
 Dibromofluoromethane
 Concen: 47.595 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050806.D
 Acq: 22 Aug 2018 1:53

Tgt Ion:113 Resp: 410953
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.6 123.8
 192 22.5 18.0 27.0



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

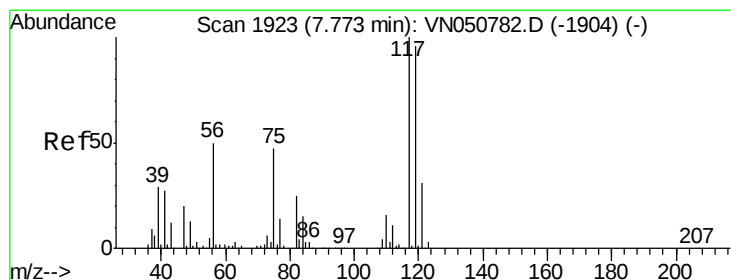
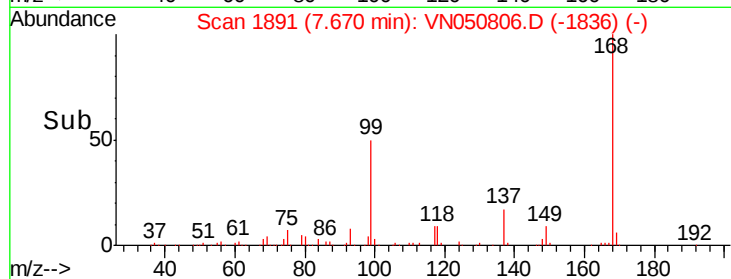
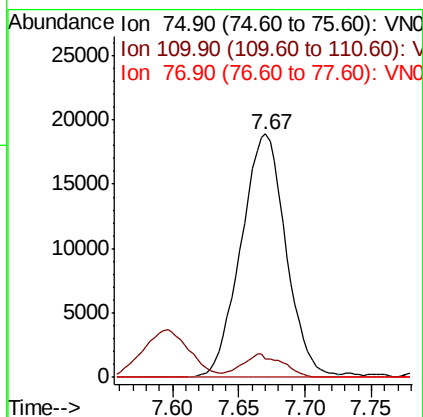
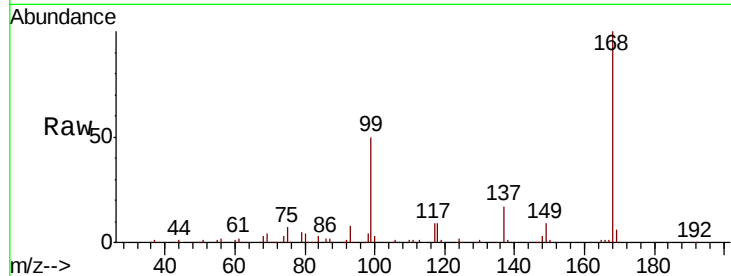




#36
 1,1-Dichloropropene
 Concen: 3.483 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050806.D
 Acq: 22 Aug 2018 1:53

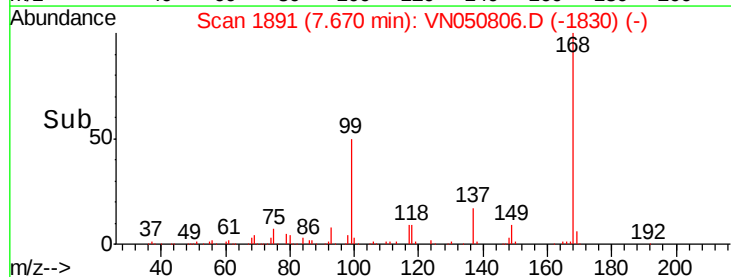
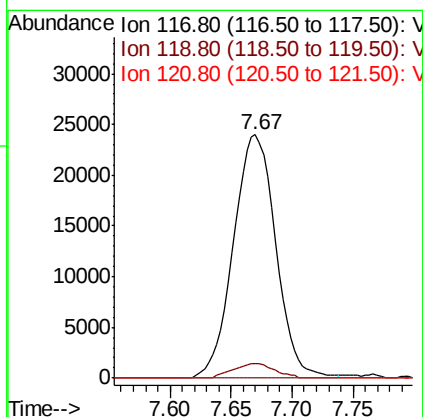
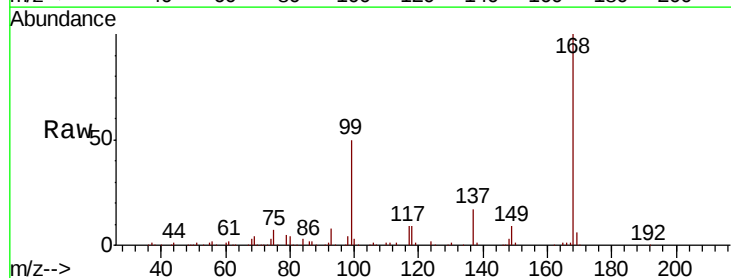
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112227ZHE#12

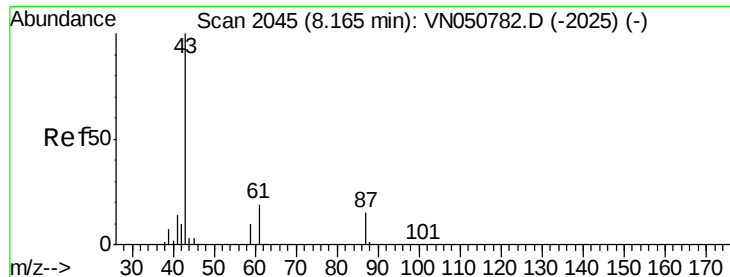
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.464 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050806.D
 Acq: 22 Aug 2018 1:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 26.219 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#12

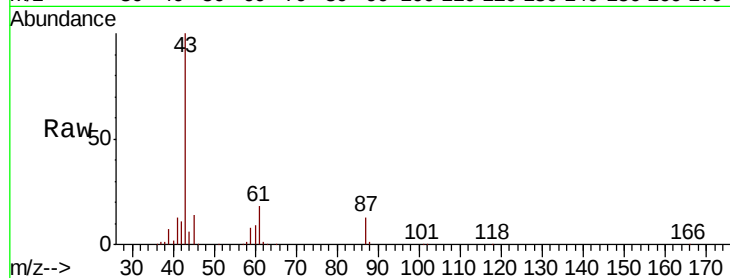
Tot Ion: 43 Resp: 331647

Ion Ratio Lower Upper

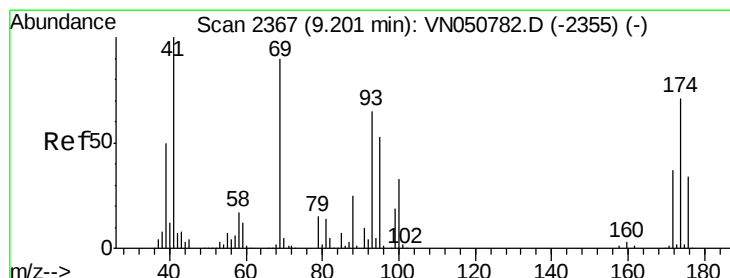
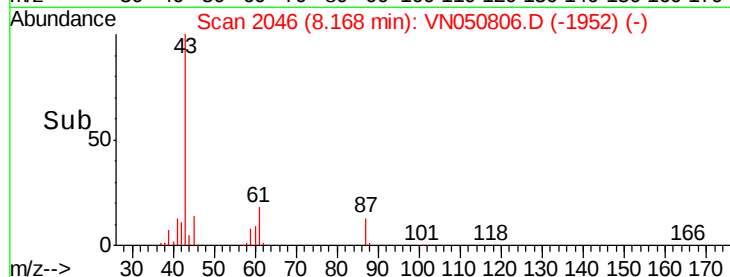
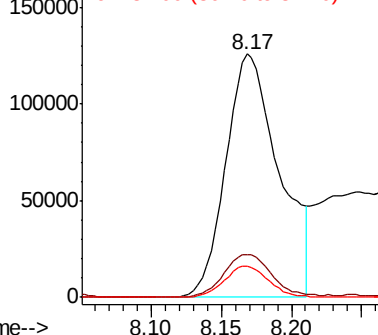
43 100

61 16.2 17.5 26.3#

87 10.7 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.167 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

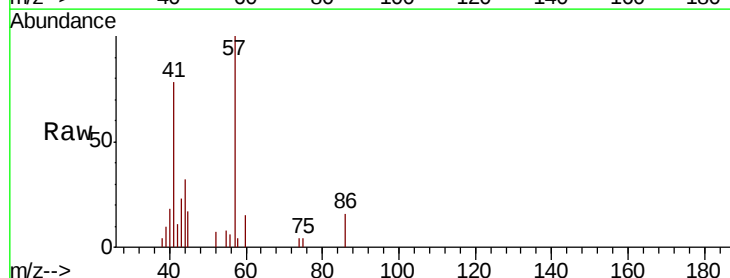
Tgt Ion: 41 Resp: 7526

Ion Ratio Lower Upper

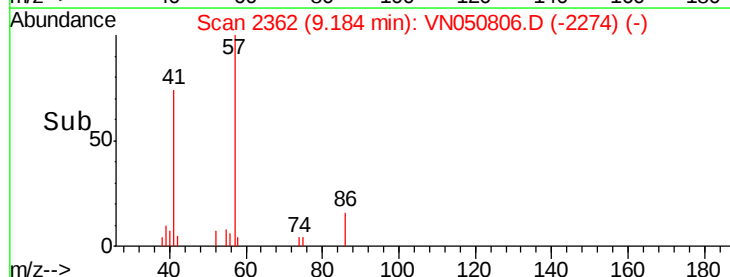
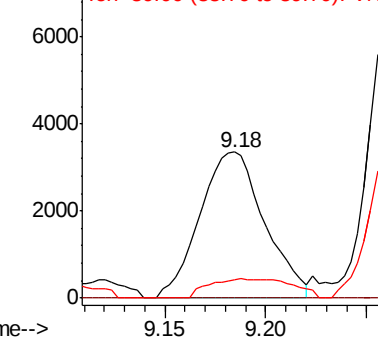
41 100

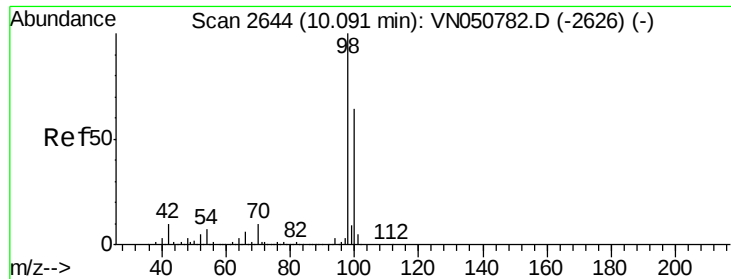
69 0.0 74.7 112.1#

39 16.8 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

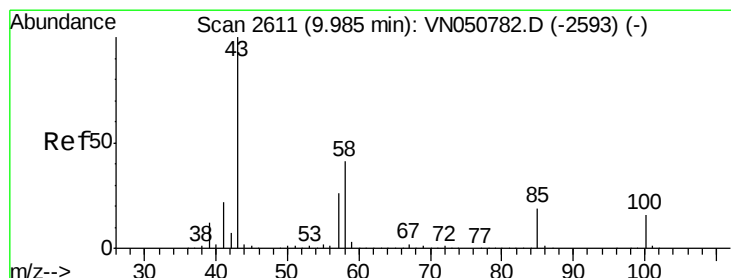
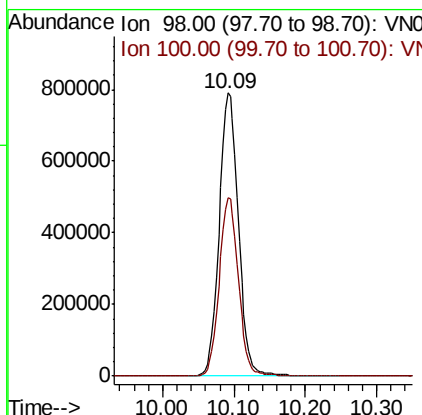
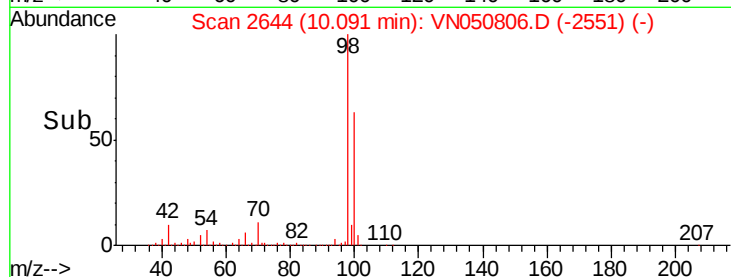
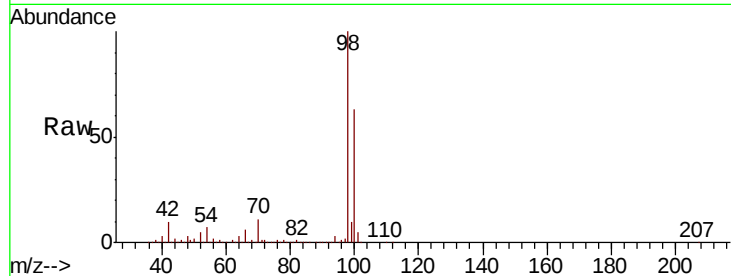




#50
Toluene-d8
Concen: 45.619 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050806.D
Acq: 22 Aug 2018 1:53

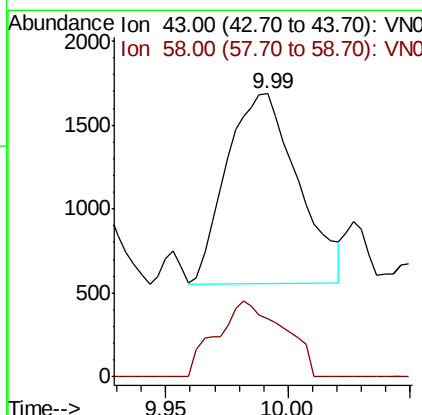
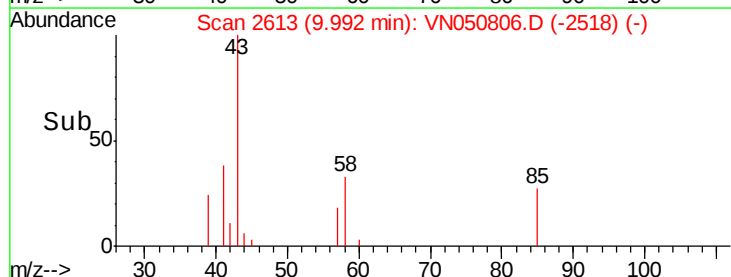
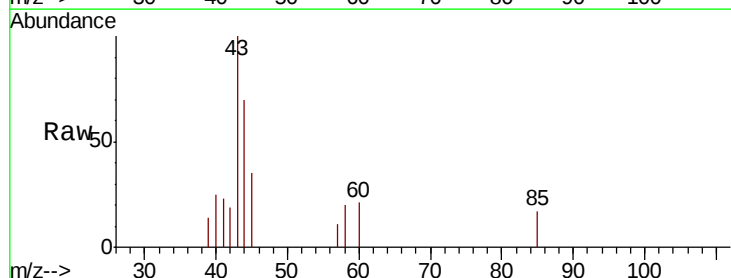
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#12

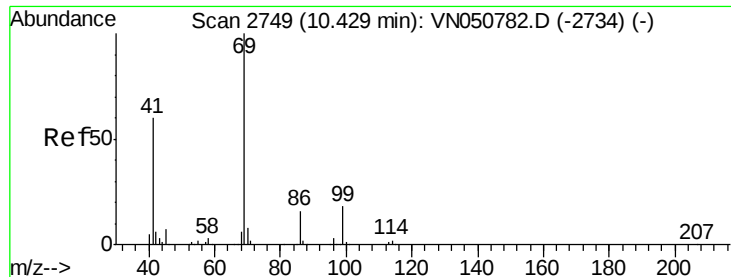
Tot Ion: 98 Resp: 1472638
Ion Ratio Lower Upper
98 100
100 63.1 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.306 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.01 min
Lab File: VN050806.D
Acq: 22 Aug 2018 1:53

Tgt Ion: 43 Resp: 2313
Ion Ratio Lower Upper
43 100
58 37.2 32.4 48.6





#56

Ethyl methacrylate

Concen: 2.355 ug/l

RT: 10.30 min Scan# 2710

Delta R.T. -0.12 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#12

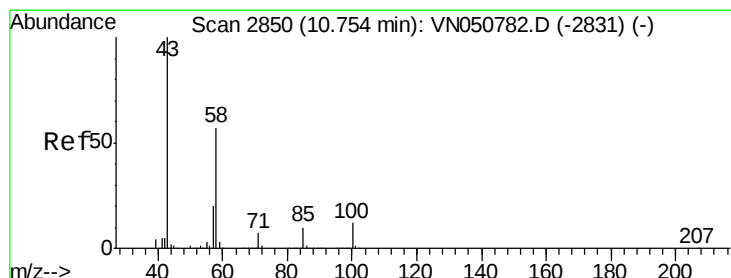
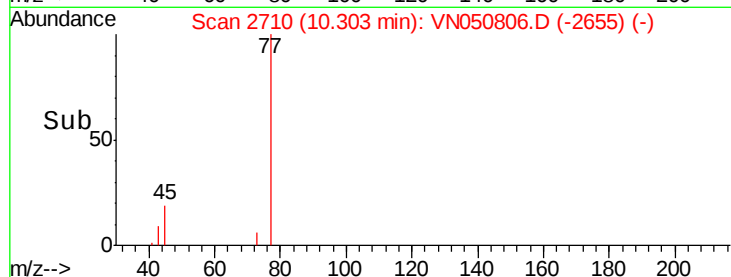
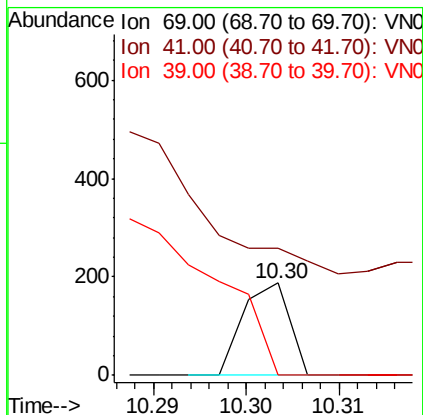
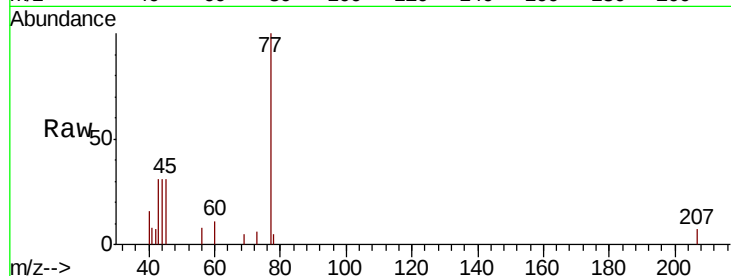
Tot Ion: 69 Resp: 66

Ion Ratio Lower Upper

69 100

41 0.0 48.3 72.5#

39 0.0 24.0 36.0#



#59

2-Hexanone

Concen: 3.408 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050806.D

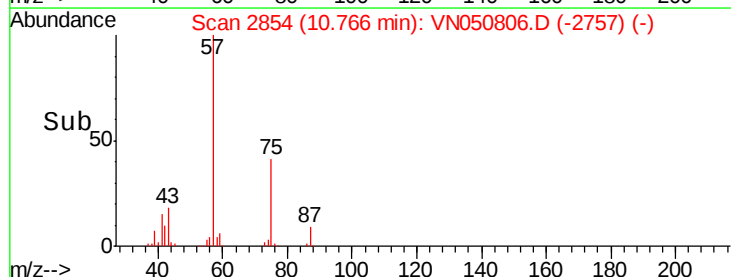
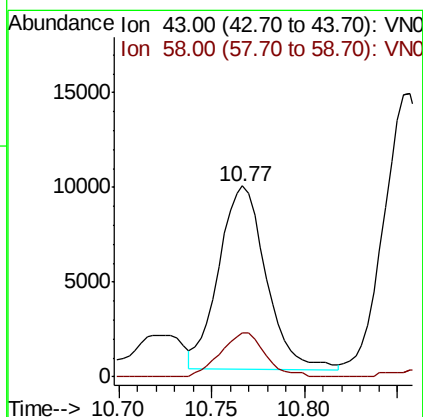
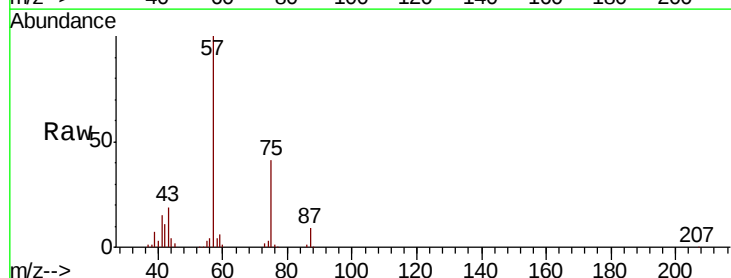
Acq: 22 Aug 2018 1:53

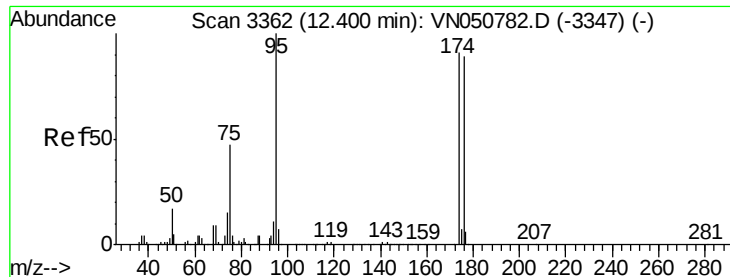
Tgt Ion: 43 Resp: 17126

Ion Ratio Lower Upper

43 100

58 22.7 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: 36.784 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#12

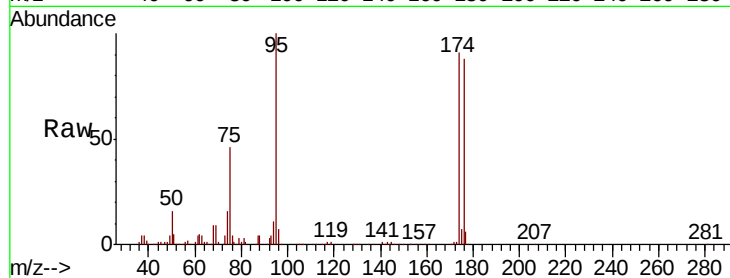
Tot Ion: 95 Resp: 394586

Ion Ratio Lower Upper

95 100

174 91.5 0.0 183.0

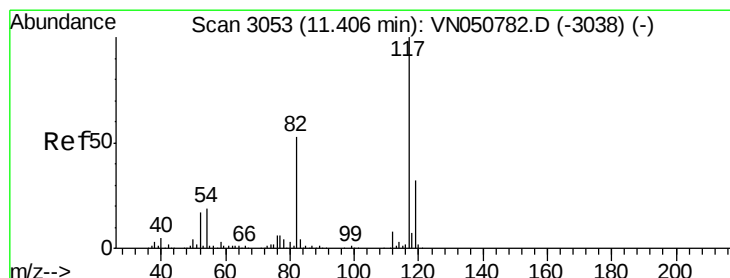
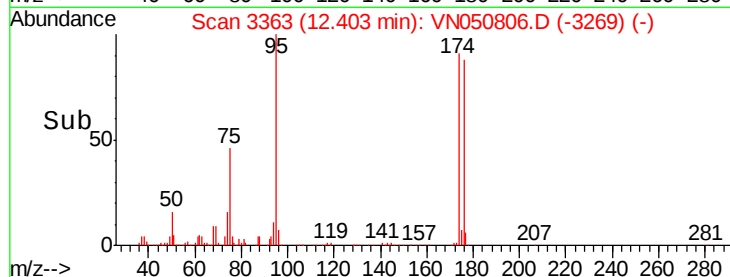
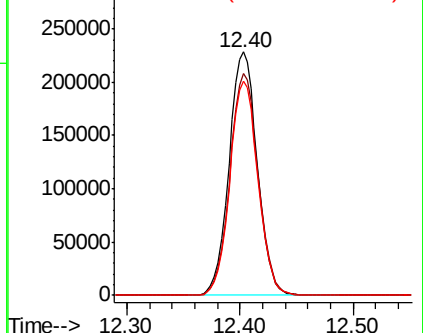
176 88.0 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN050782.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN050782.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN050782.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

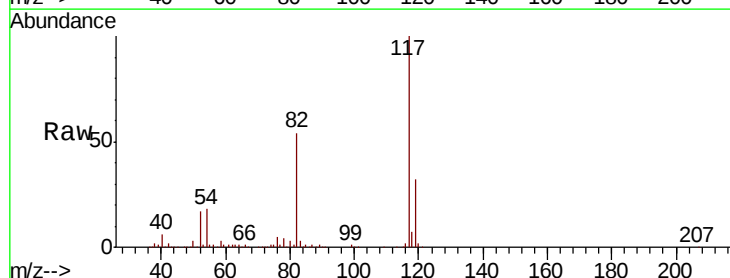
Tgt Ion: 117 Resp: 915741

Ion Ratio Lower Upper

117 100

82 53.8 42.6 64.0

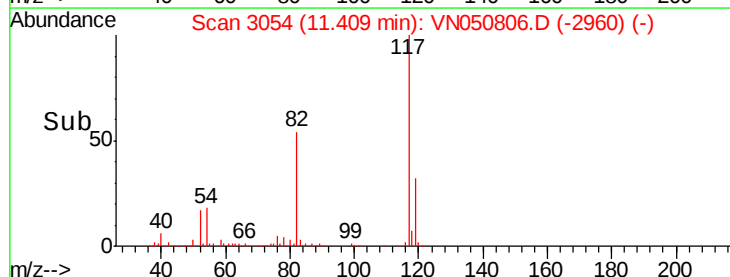
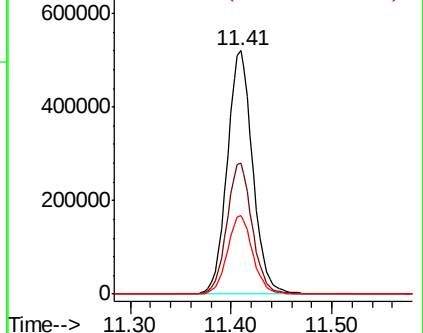
119 32.1 25.8 38.6

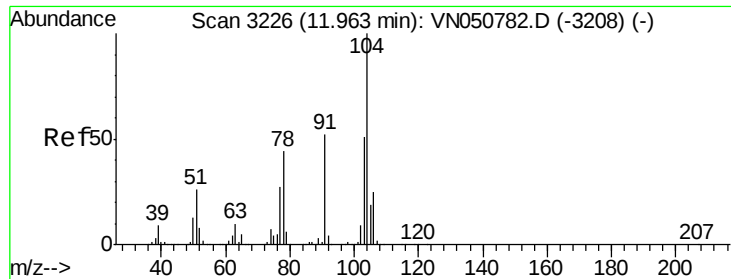


Abundance Ion 116.90 (116.60 to 117.60): VN050782.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050782.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050782.D (-3038) (-)

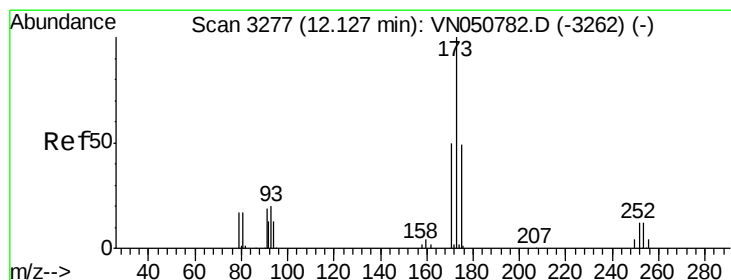
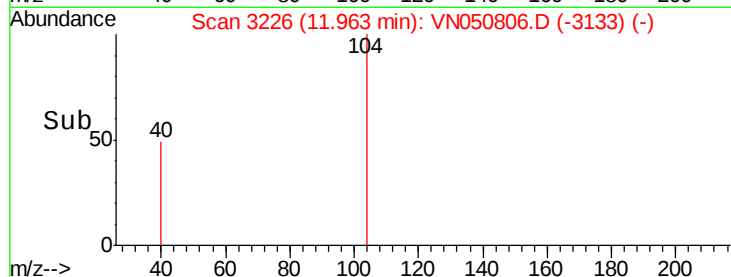
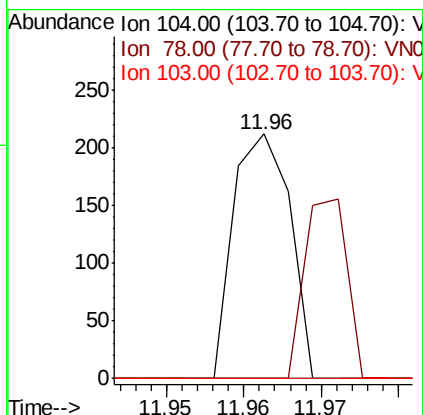
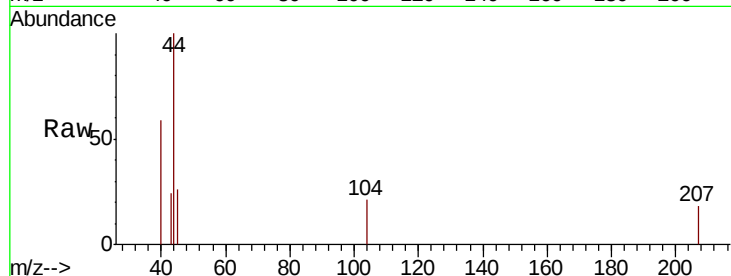




#70
Stvrene
Concen: 1.274 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050806.D
Acq: 22 Aug 2018 1:53

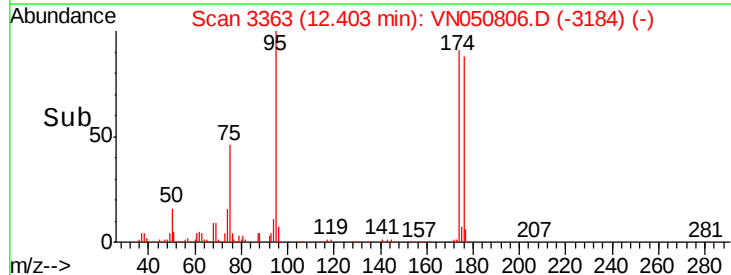
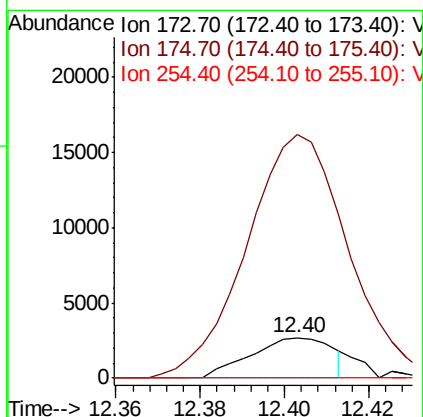
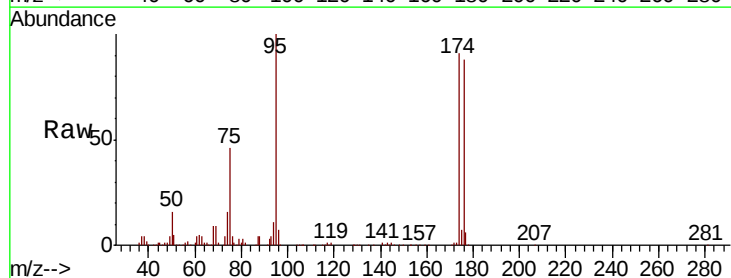
Instrument :
MSVOA_N
ClientSampleId :
PB112227ZHE#12

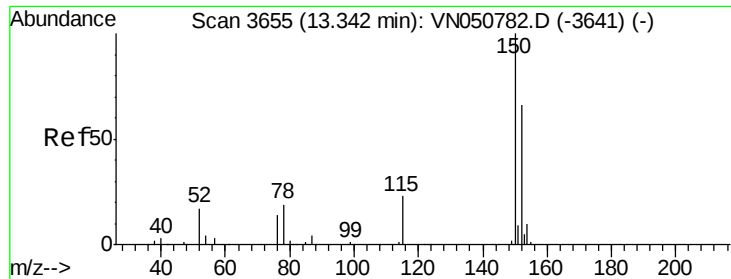
Tot Ion:104 Resp: 108
Ion Ratio Lower Upper
104 100
78 54.6 38.2 57.4
103 0.0 44.4 66.6#



#71
Bromoform
Concen: 0.600 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050806.D
Acq: 22 Aug 2018 1:53

Tgt Ion:173 Resp: 3616
Ion Ratio Lower Upper
173 100
175 629.7 24.4 73.4#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#12

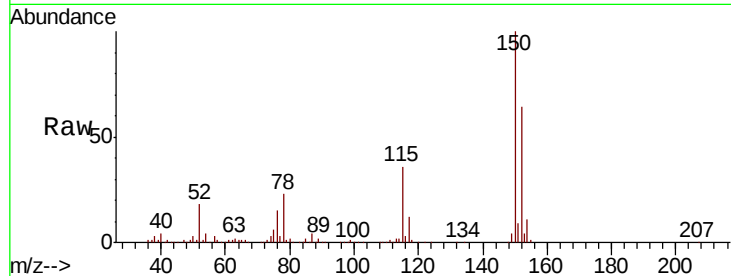
Tot Ion:152 Resp: 313065

Ion Ratio Lower Upper

152 100

115 56.5 27.8 83.4

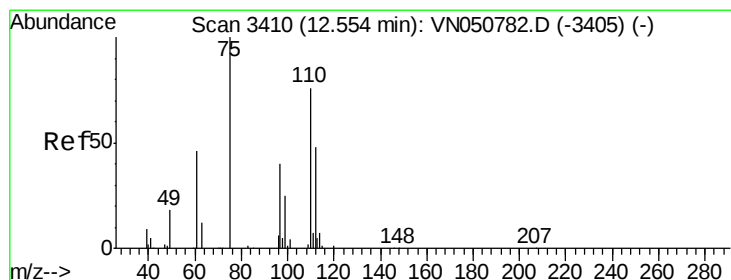
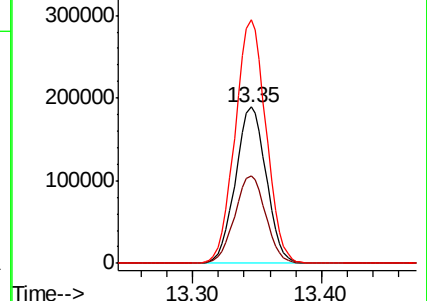
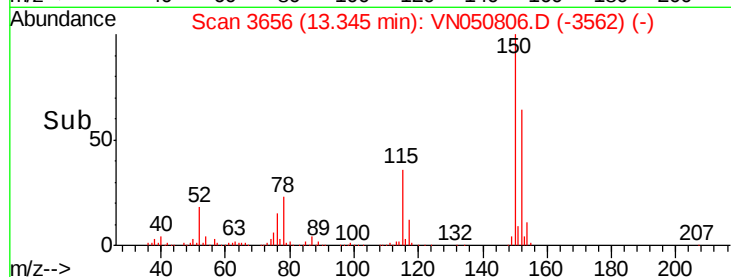
150 156.5 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 33.449 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050806.D

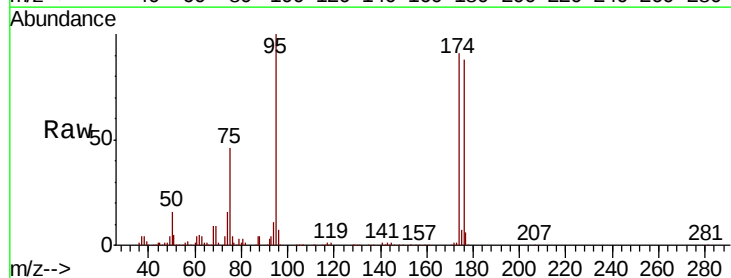
Acq: 22 Aug 2018 1:53

Tgt Ion: 75 Resp: 183414

Ion Ratio Lower Upper

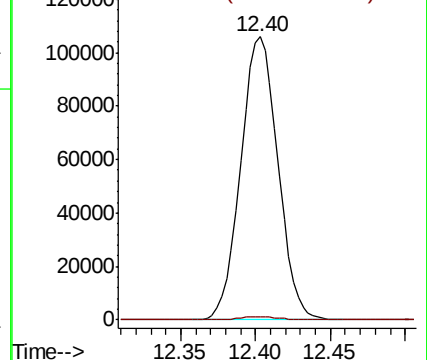
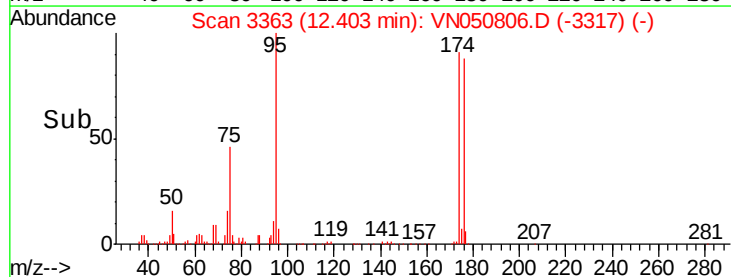
75 100

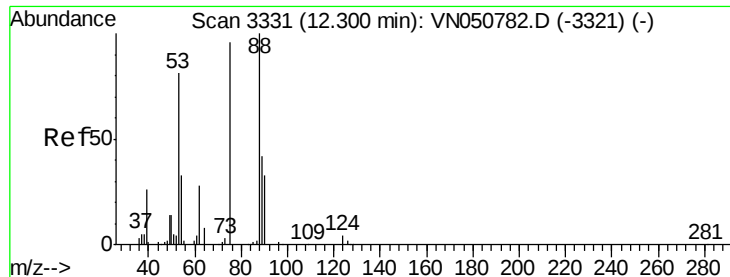
77 1.2 0.0 0.0#



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: 113.078 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

Instrument :

MSVOA_N

ClientSampleId :

PB112227ZHE#12

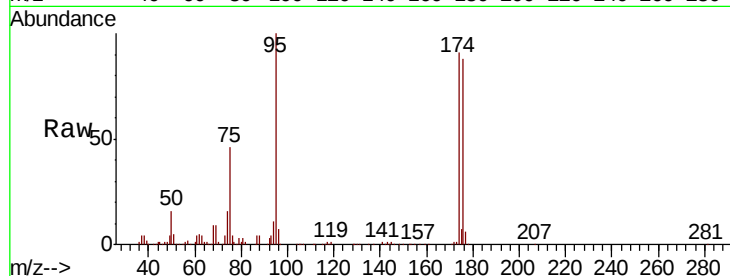
Tot Ion: 75 Resp: 183414

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

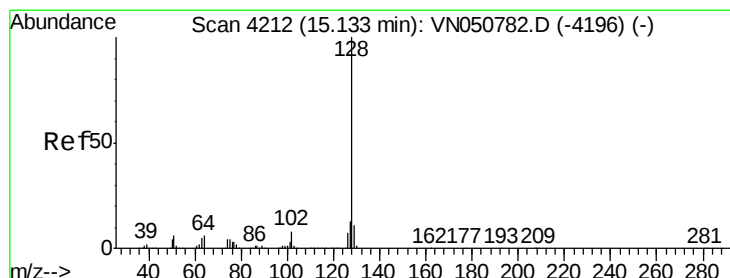
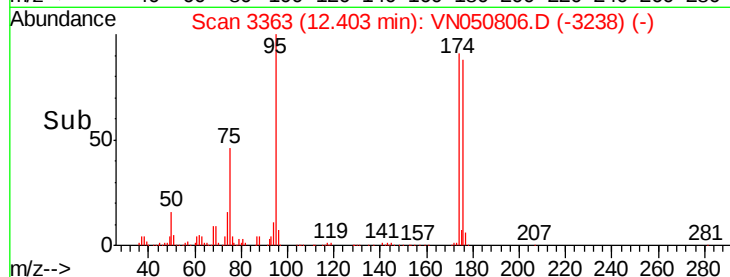
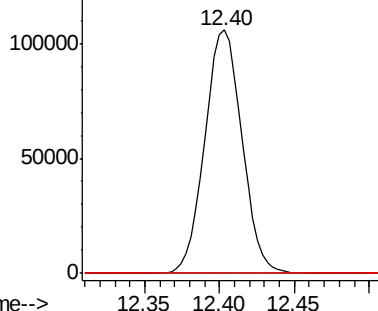
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN050806.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN050806.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN050806.D (-3363) (-)



#95

Naphthalene

Concen: 5.414 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN050806.D

Acq: 22 Aug 2018 1:53

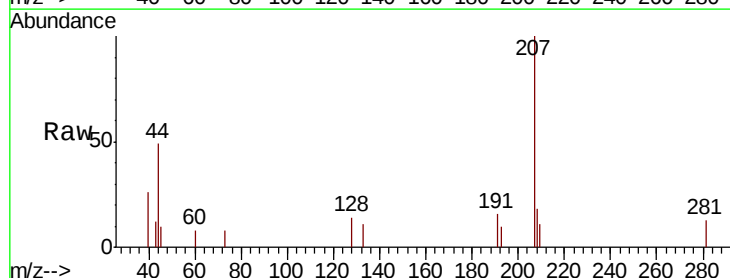
Tgt Ion: 128 Resp: 192

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN050806.D (-4215) (-)

Ion 127.00 (126.70 to 127.70): VN050806.D (-4215) (-)

Ion 129.00 (128.70 to 129.70): VN050806.D (-4215) (-)

