

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\
 Data File : VN050462.D
 Acq On : 8 Aug 2018 16:28
 Operator : MD\SY
 Sample : PB111846ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#02

Quant Time: Aug 09 00:57:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	861607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1342486	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1171963	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	469062	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	551273	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
35) Dibromofluoromethane	7.59	113	504725	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
50) Toluene-d8	10.09	98	1839971	45.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.86%	
62) 4-Bromofluorobenzene	12.40	95	555955	40.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.56%	

Target Compounds

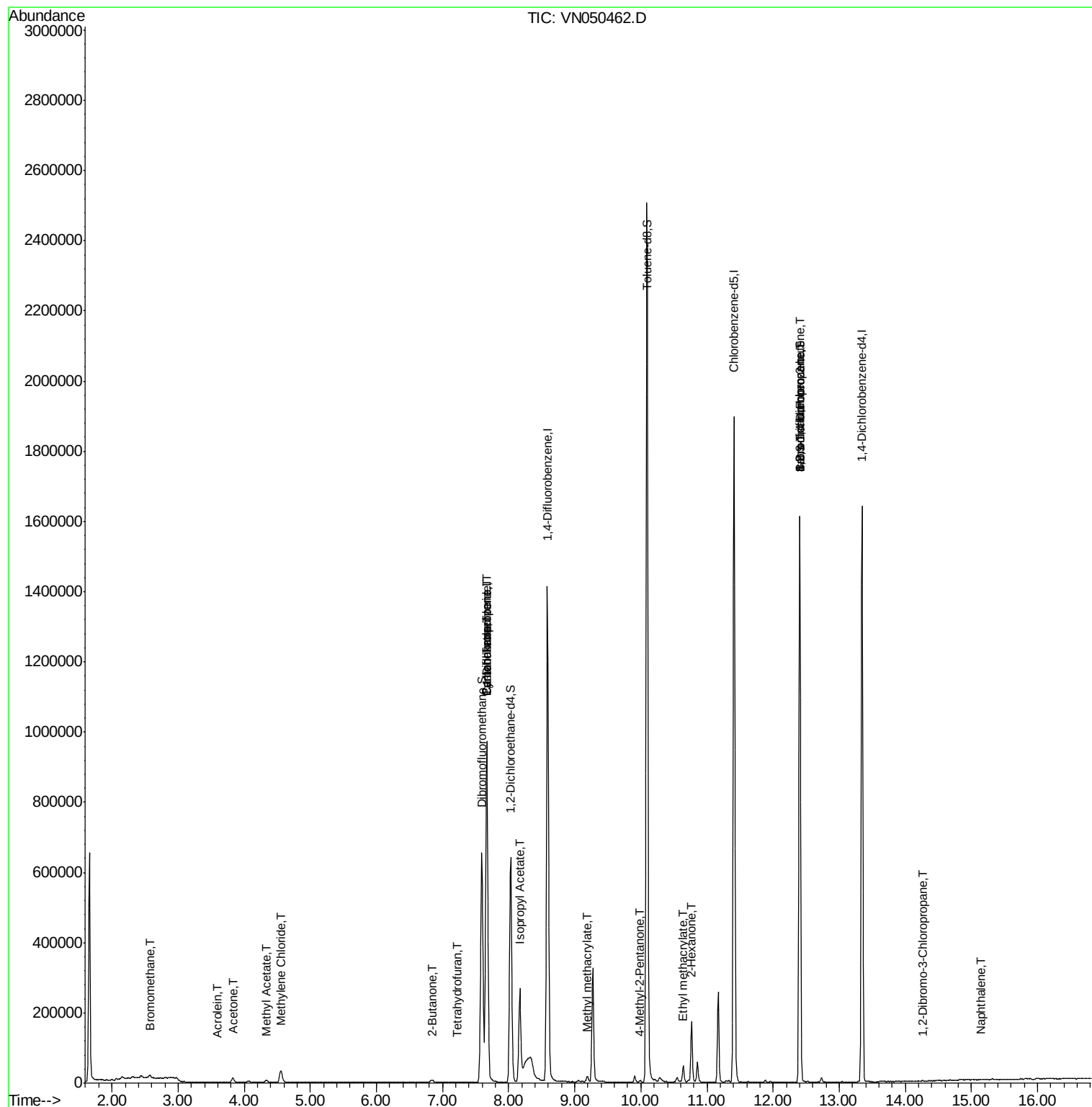
						Qvalue
3) Chloromethane	2.06	50	3195	Below Cal		95
5) Bromomethane	2.57	94	5221	1.04 ug/l		86
13) Acrolein	3.60	56	123	15.13 ug/l #		46
16) Acetone	3.83	43	21838	6.01 ug/l		99
18) Methyl Acetate	4.34	43	11760	1.13 ug/l		100
20) Methylene Chloride	4.55	84	27072	1.06 ug/l		97
25) 2-Butanone	6.86	43	5087	0.89 ug/l		96
29) Tetrahydrofuran	7.22	42	1418	0.46 ug/l #		76
31) Cyclohexane	7.67	56	13710	0.20 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	58801	3.99 ug/l #		48
38) Carbon Tetrachloride	7.67	117	76115	4.95 ug/l #		16
43) Isopropyl Acetate	8.17	43	321219	17.52 ug/l		99
48) Methyl methacrylate	9.18	41	8518	0.93 ug/l #		24
51) 4-Methyl-2-Pentanone	9.99	43	3146	0.24 ug/l		95
56) Ethyl methacrylate	10.65	69	625	1.75 ug/l #		1
59) 2-Hexanone	10.77	43	25003	2.71 ug/l #		55
71) Bromoform	12.40	173	3642	0.47 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	264834	31.19 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	264834	109.59 ug/l #		13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	384	0.22 ug/l #		1
95) Naphthalene	15.14	128	1652	3.69 ug/l #		74

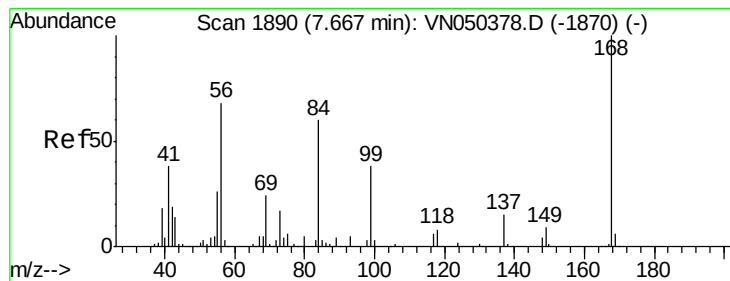
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

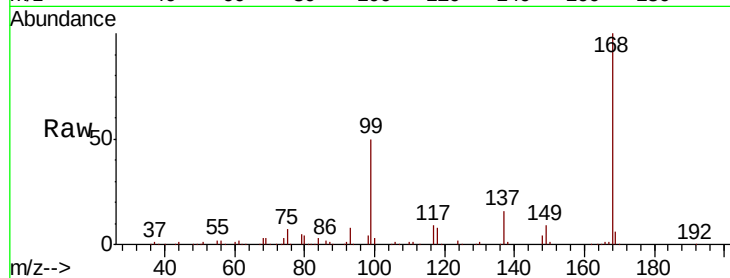
PB111846ZHE#02

Tot Ion:168 Resp: 861607

Ion Ratio Lower Upper

168 100

99 49.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

400000

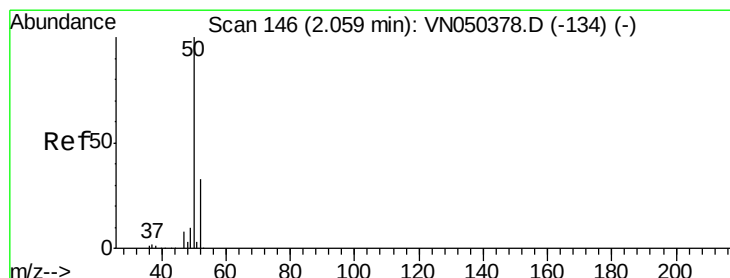
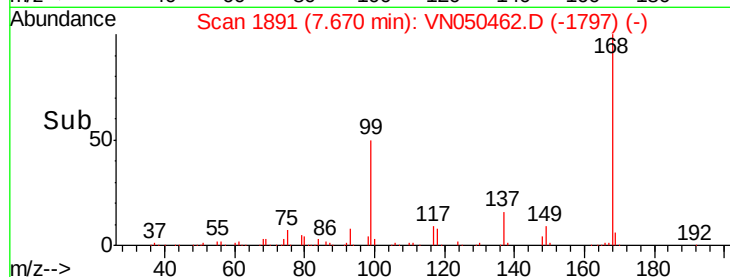
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050462.D

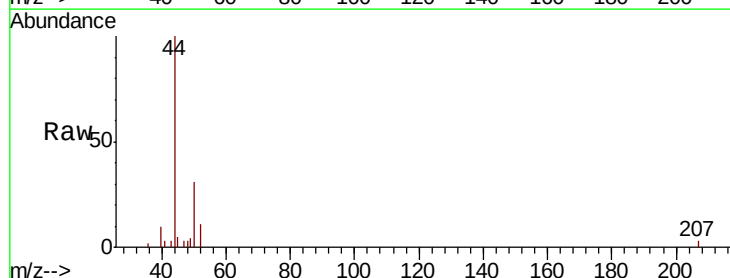
Acq: 8 Aug 2018 16:28

Tgt Ion: 50 Resp: 3195

Ion Ratio Lower Upper

50 100

52 35.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

2500

2000

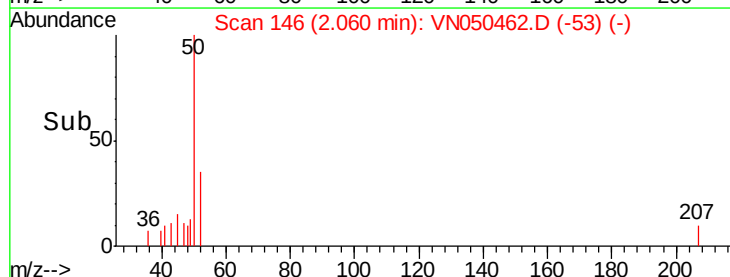
1500

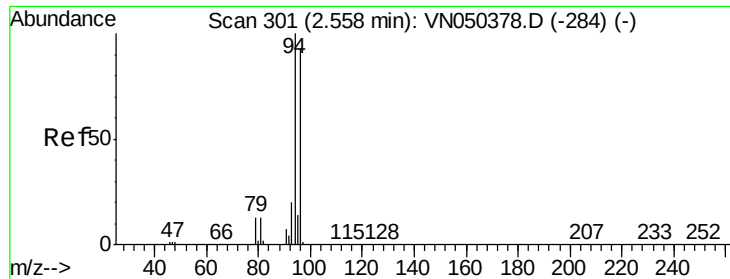
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.04 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

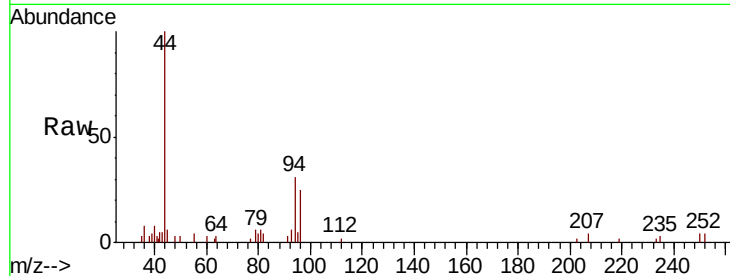
PB111846ZHE#02

Tot Ion: 94 Resp: 5221

Ion Ratio Lower Upper

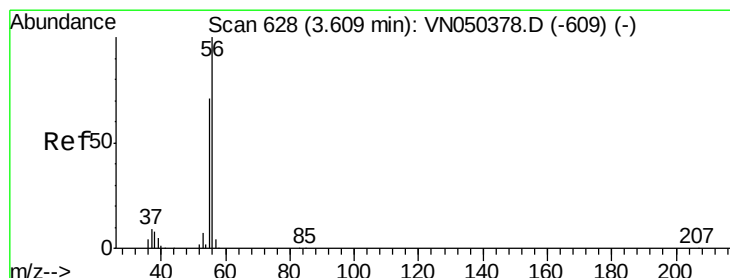
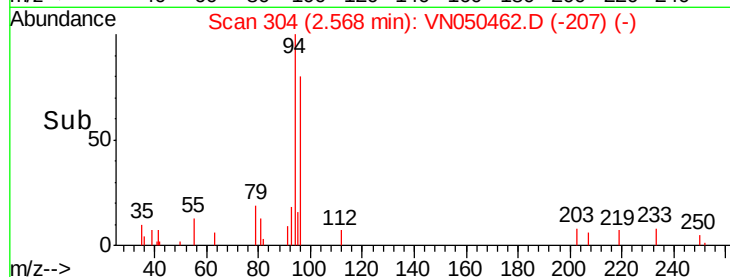
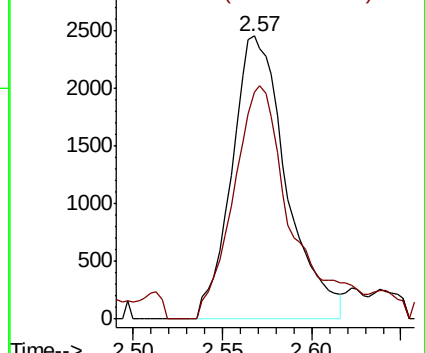
94 100

96 80.0 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 15.13 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN050462.D

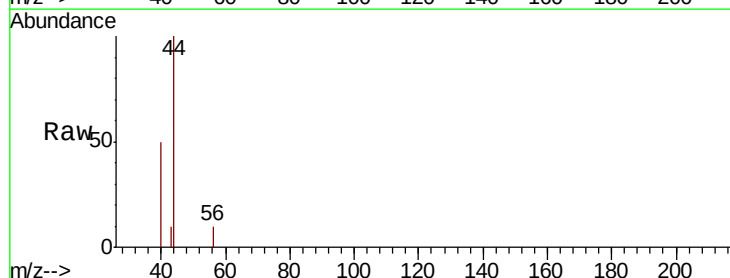
Acq: 8 Aug 2018 16:28

Tgt Ion: 56 Resp: 123

Ion Ratio Lower Upper

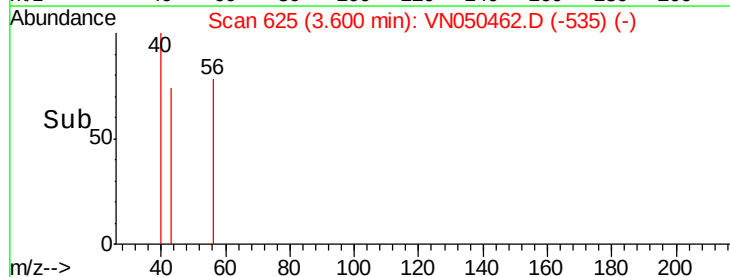
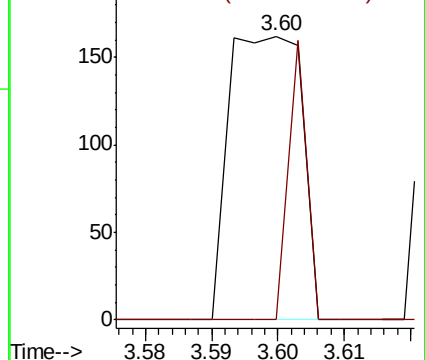
56 100

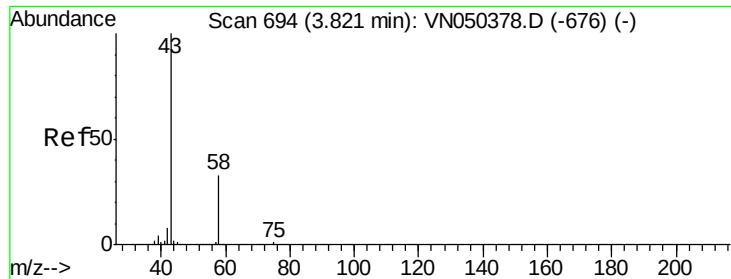
55 25.2 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

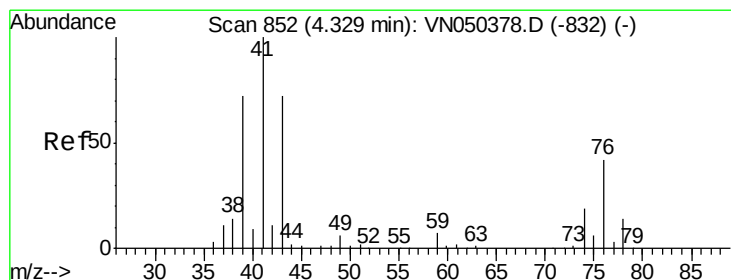
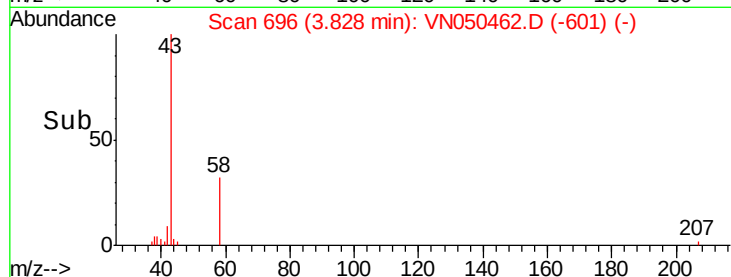
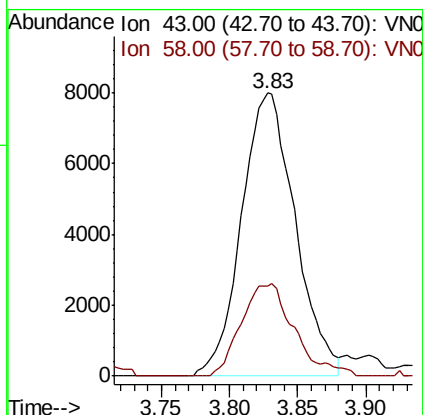
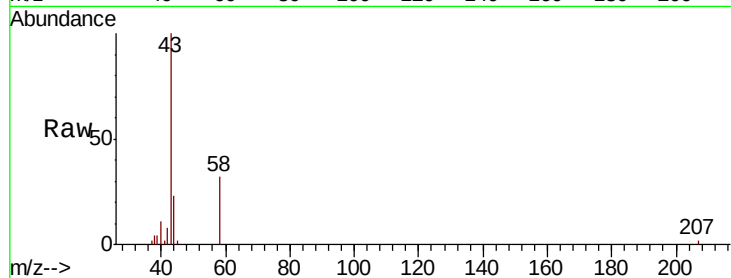




#16
Acetone
Concen: 6.01 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

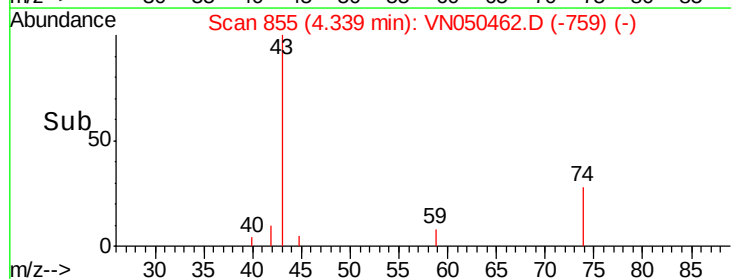
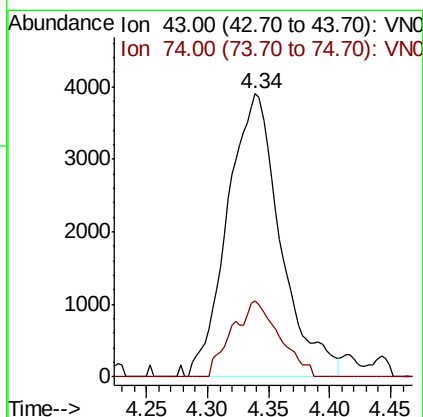
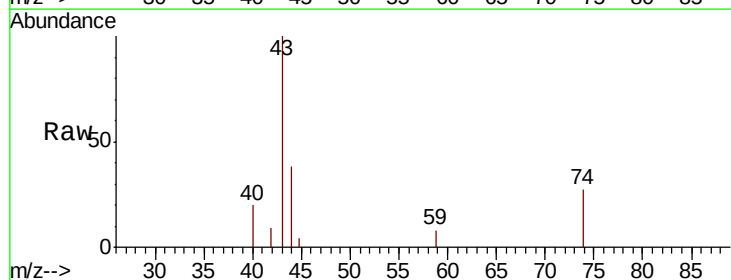
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#02

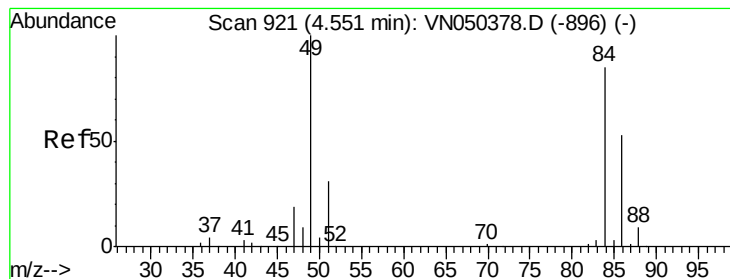
Tot Ion: 43 Resp: 21838
Ion Ratio Lower Upper
43 100
58 31.8 25.8 38.8



#18
Methyl Acetate
Concen: 1.13 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

Tgt Ion: 43 Resp: 11760
Ion Ratio Lower Upper
43 100
74 24.0 19.2 28.8





#20

Methvlene Chloride

Concen: 1.06 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#02

Tot Ion: 84 Resp: 27072

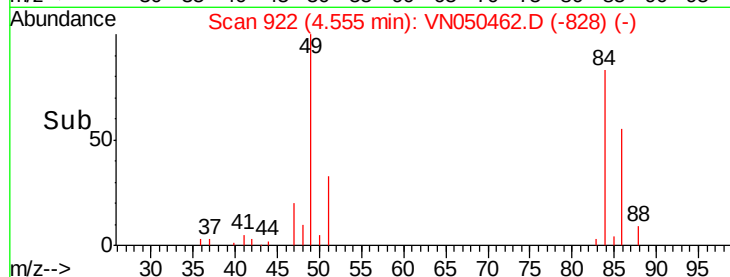
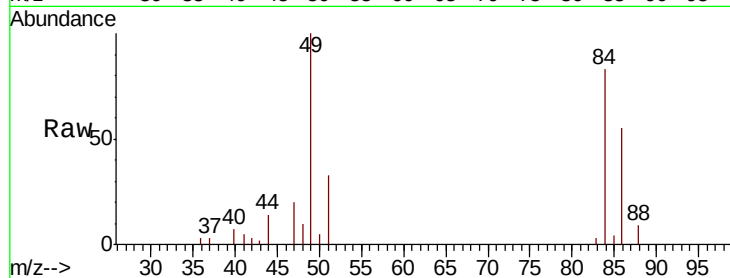
Ion Ratio Lower Upper

84 100

49 121.0 94.8 142.2

51 39.5 28.3 42.5

86 66.1 51.0 76.6

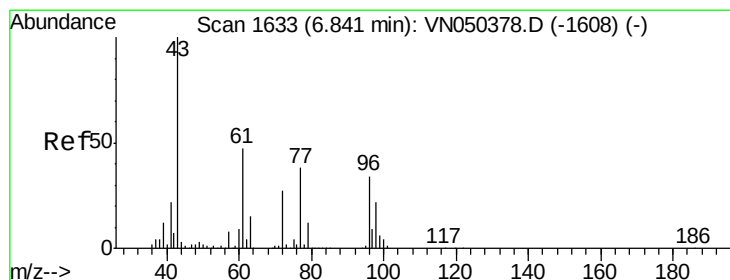
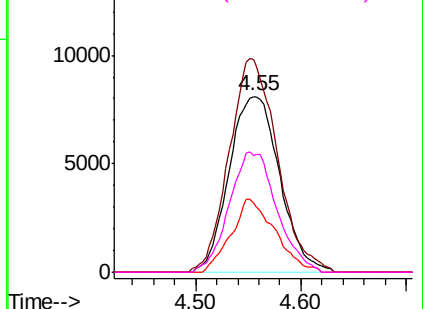


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 0.89 ug/l

RT: 6.86 min Scan# 1639

Delta R.T. 0.02 min

Lab File: VN050462.D

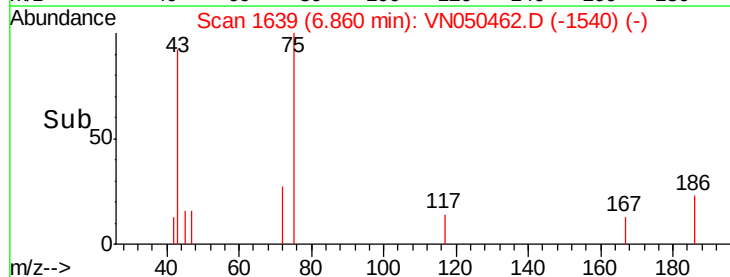
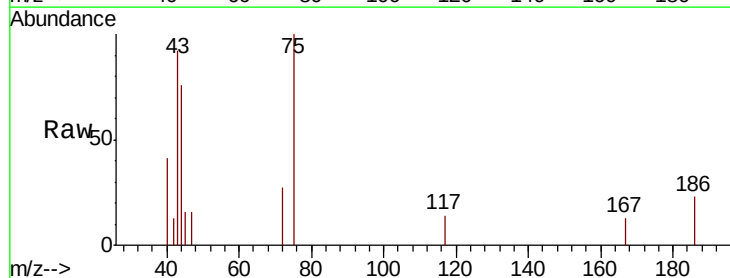
Acq: 8 Aug 2018 16:28

Tgt Ion: 43 Resp: 5087

Ion Ratio Lower Upper

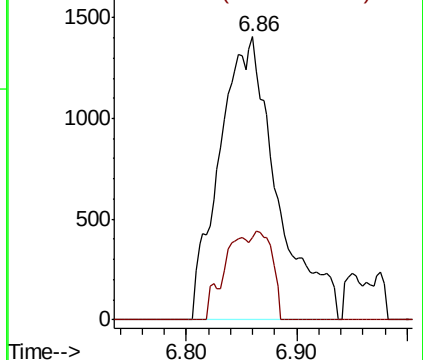
43 100

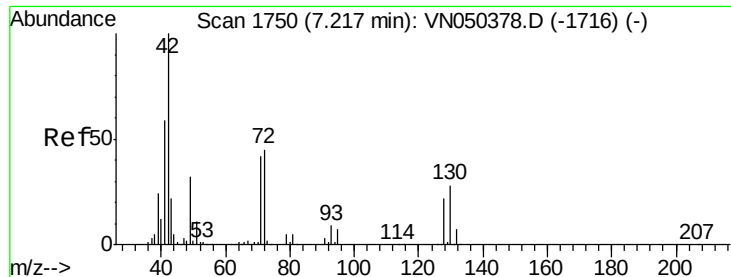
72 29.0 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.46 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#02

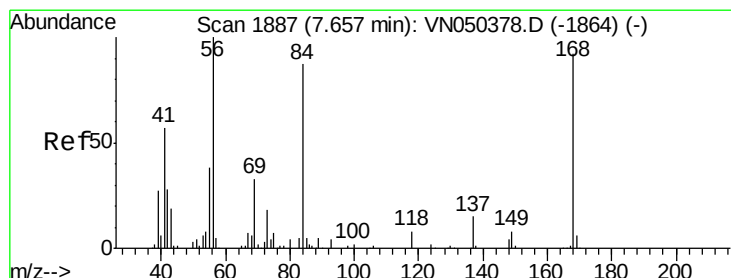
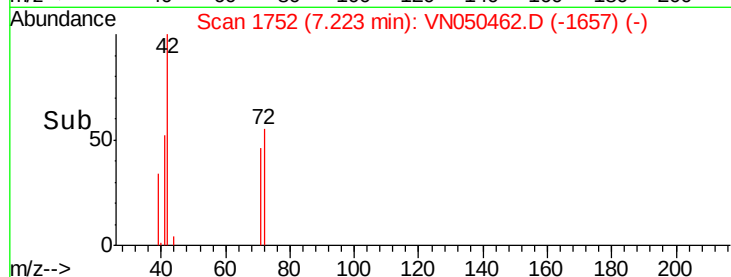
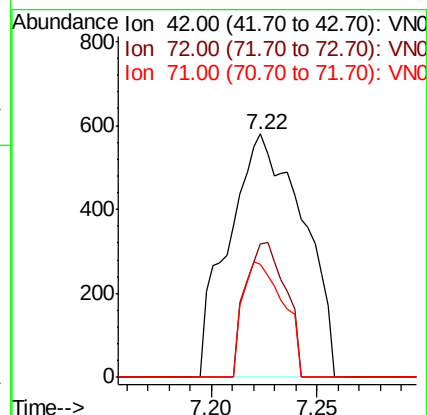
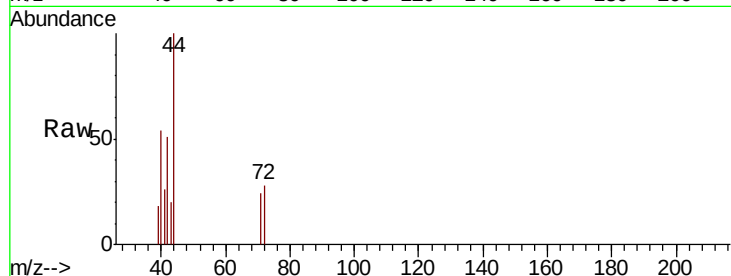
Tot Ion: 42 Resp: 1418

Ion Ratio Lower Upper

42 100

72 30.0 35.9 53.9#

71 25.9 33.7 50.5#



#31

Cyclohexane

Concen: 0.20 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

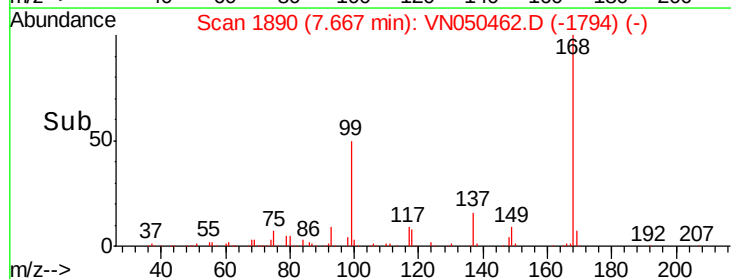
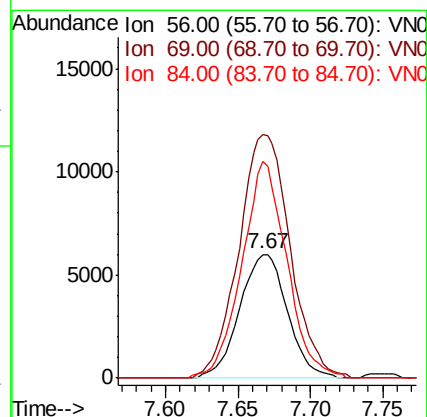
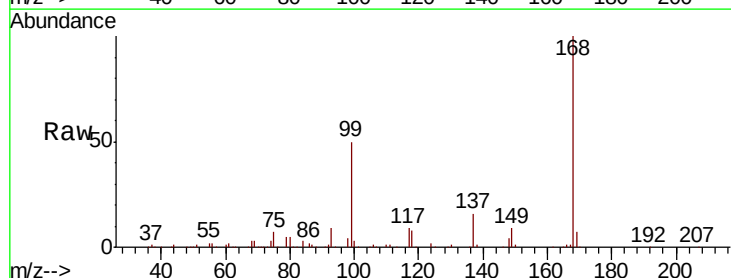
Tgt Ion: 56 Resp: 13710

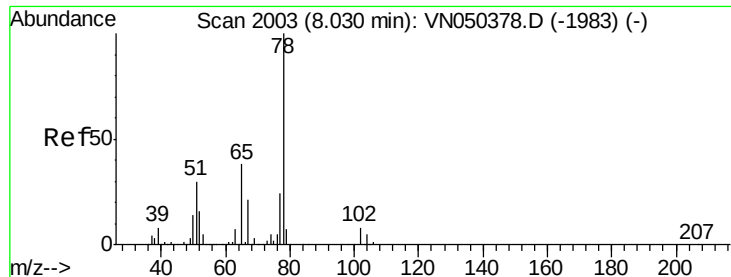
Ion Ratio Lower Upper

56 100

69 197.3 26.2 39.4#

84 173.0 67.4 101.0#

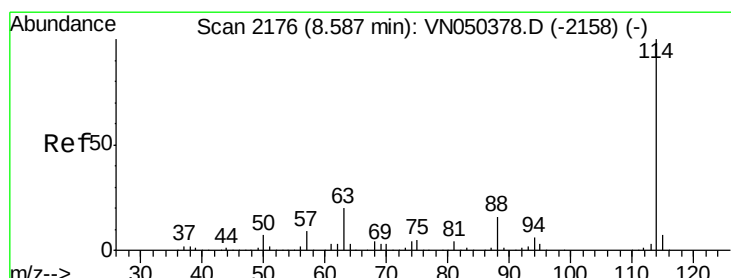
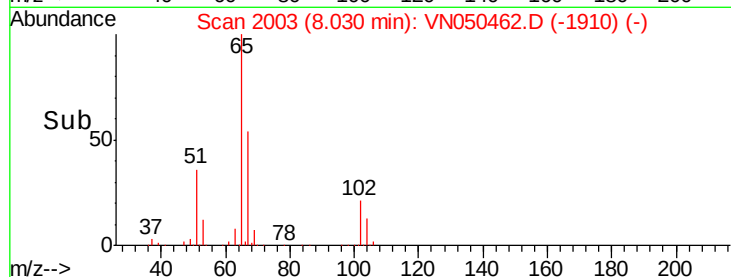
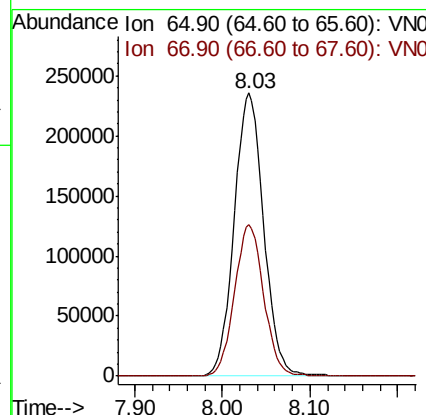
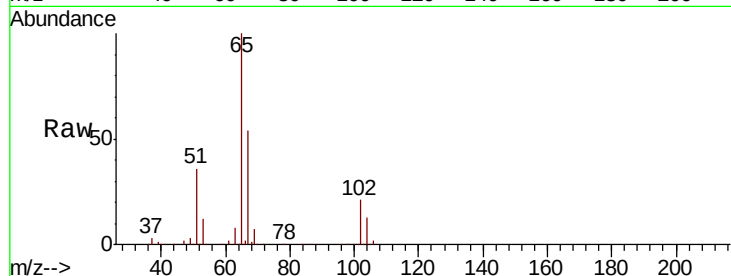




#33
 1,2-Dichloroethane-d4
 Concen: 47.89 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050462.D
 Acq: 8 Aug 2018 16:28

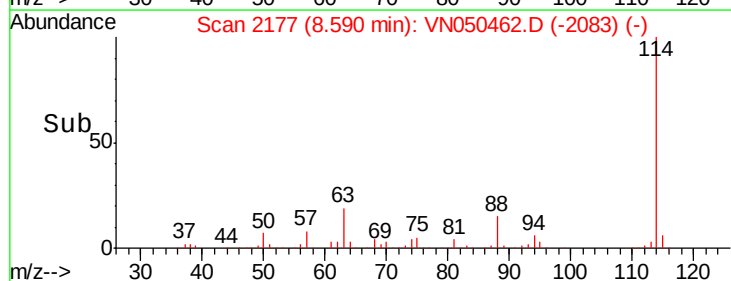
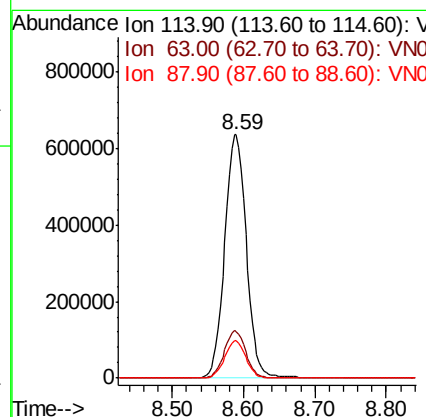
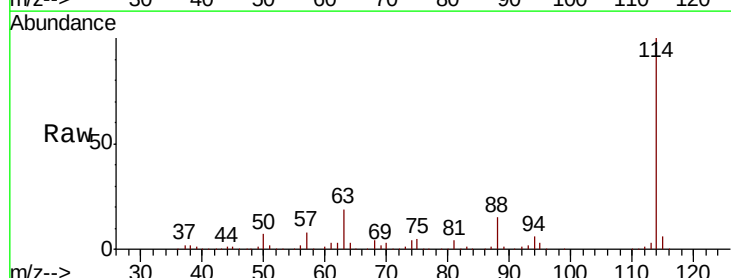
Instrument :
 MSVOA_N
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 PB111846ZHE#02

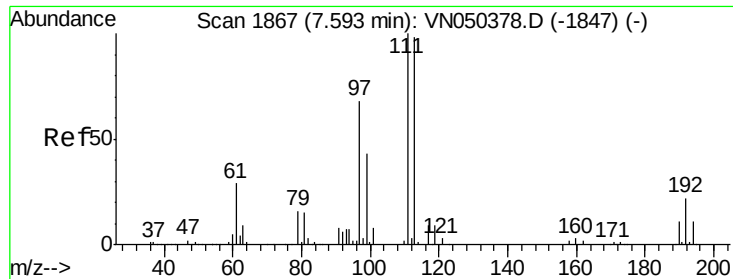
Tot Ion: 65 Resp: 551273
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050462.D
 Acq: 8 Aug 2018 16:28

Tgt Ion: 114 Resp: 1342486
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.3 0.0 31.2

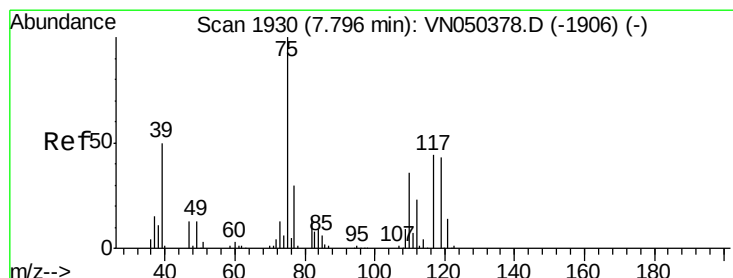
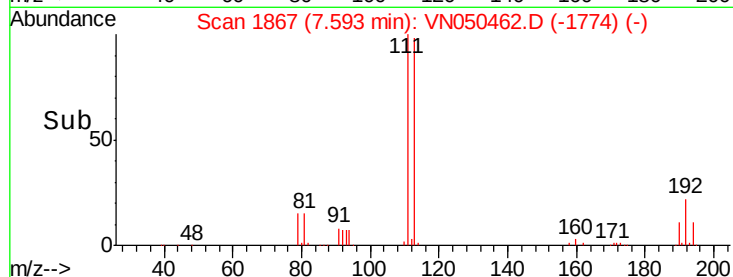
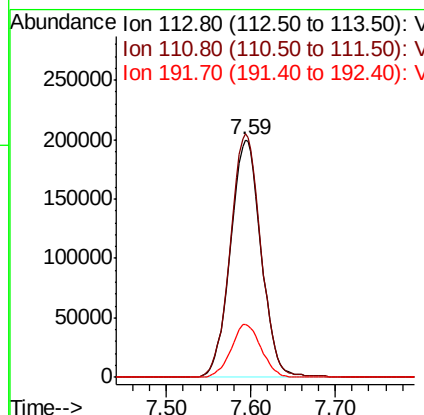
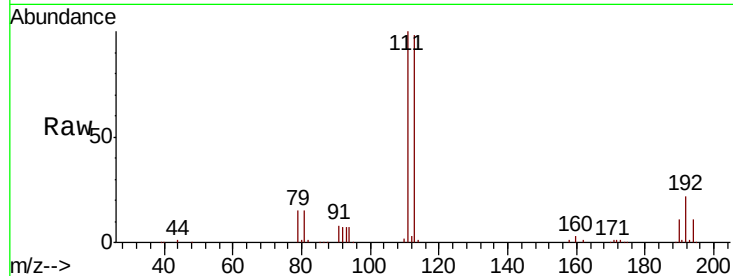




#35
 Dibromofluoromethane
 Concen: 46.86 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050462.D
 Acq: 8 Aug 2018 16:28

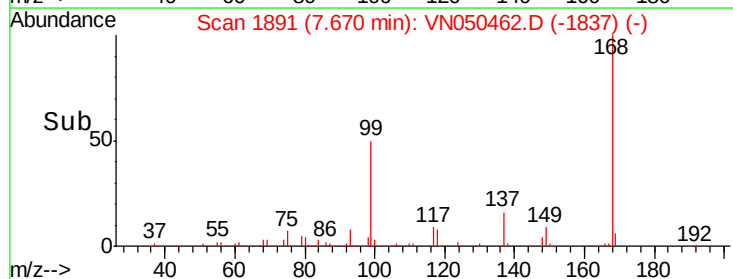
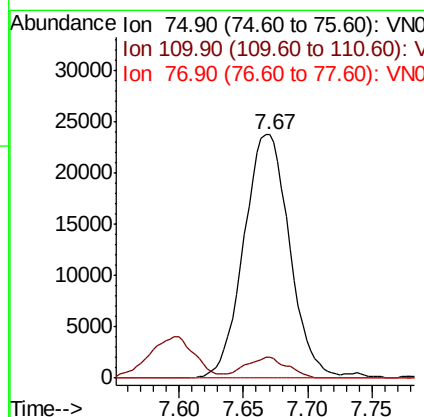
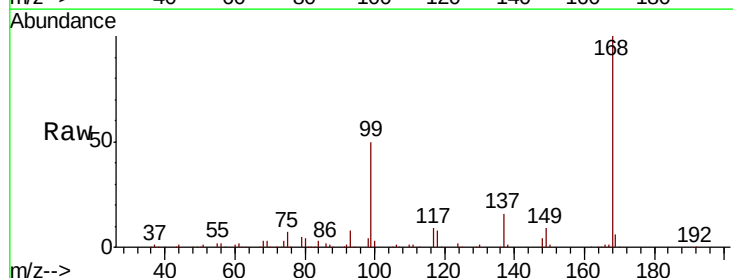
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111846ZHE#02

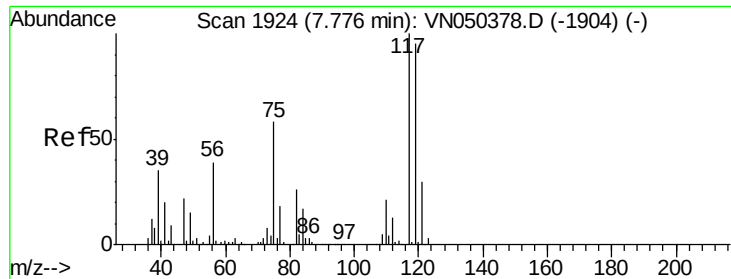
Tot Ion:113 Resp: 504725
 Ion Ratio Lower Upper
 113 100
 111 102.3 80.7 121.1
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.99 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050462.D
 Acq: 8 Aug 2018 16:28

Tgt Ion: 75 Resp: 58801
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.95 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#02

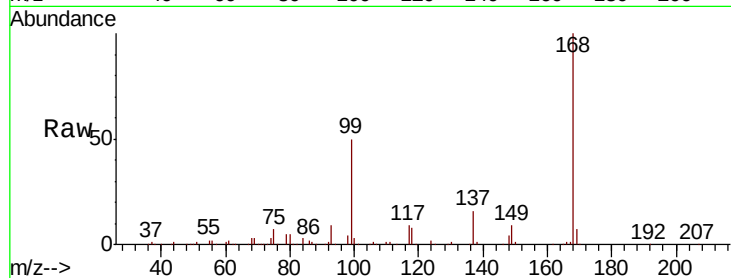
Tot Ion:117 Resp: 76115

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

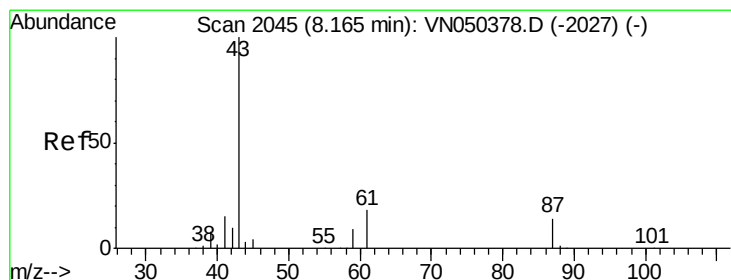
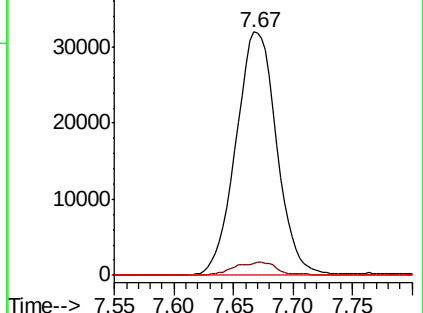
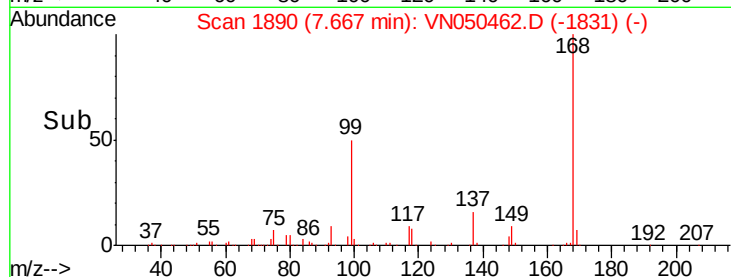
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 17.52 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

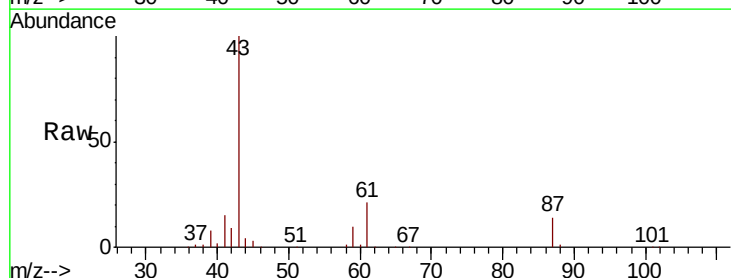
Tgt Ion: 43 Resp: 321219

Ion Ratio Lower Upper

43 100

61 20.2 15.8 23.6

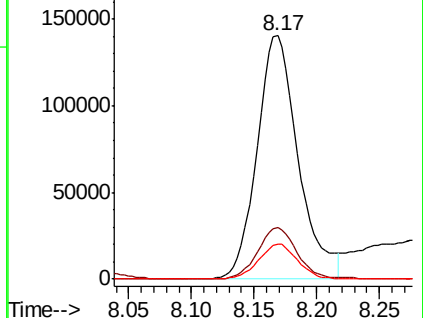
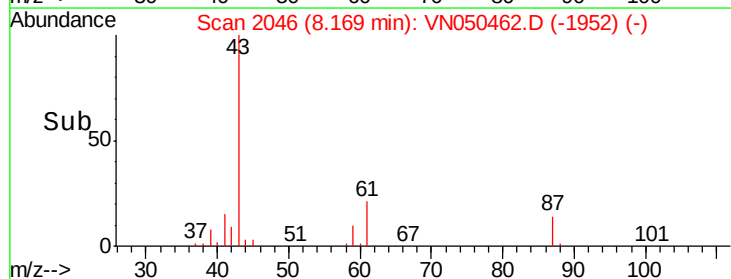
87 13.7 10.3 15.5

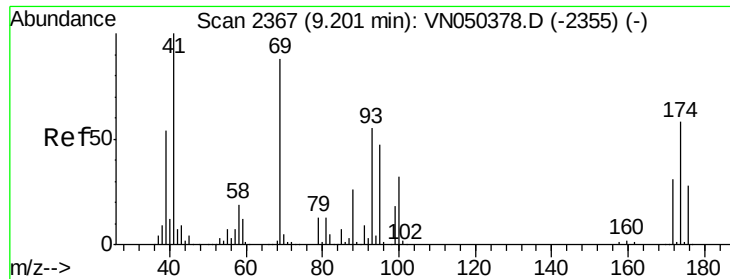


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

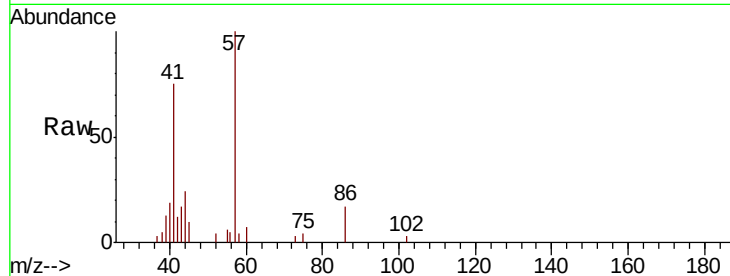




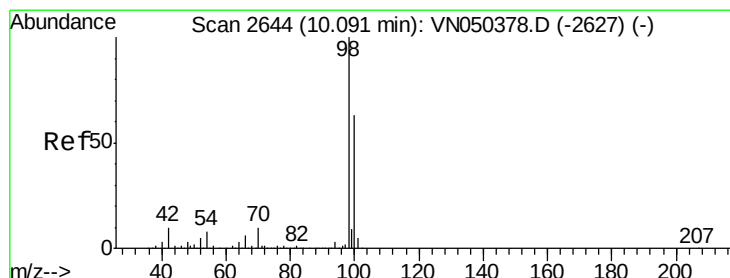
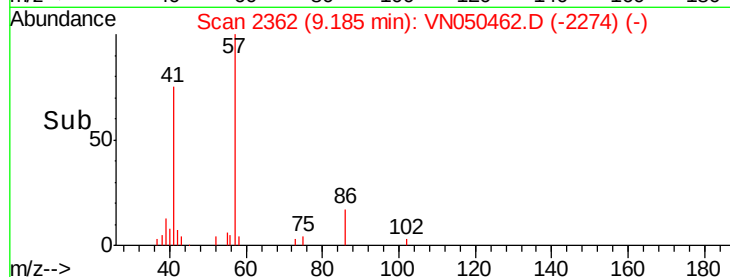
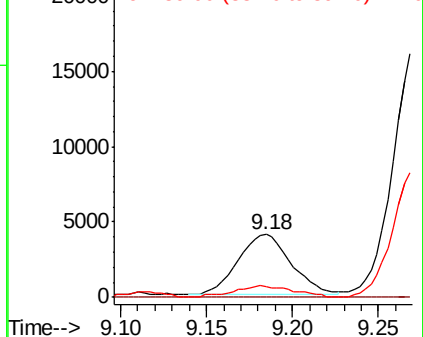
#48
Methvl methacrylate
Concen: 0.93 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#02

Tot Ion: 41 Resp: 8518
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 21.6 43.9 65.9#

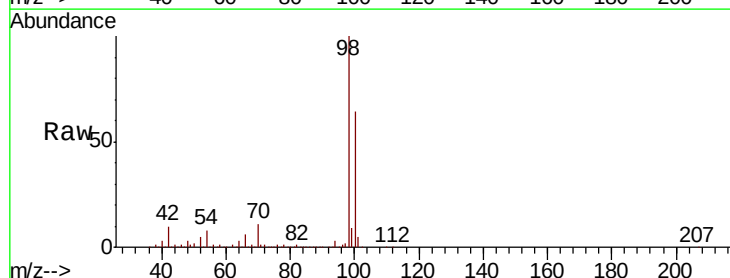


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

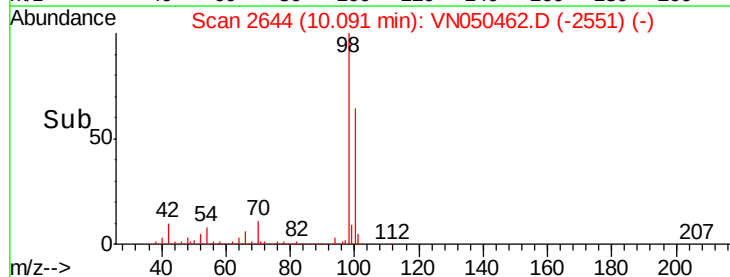
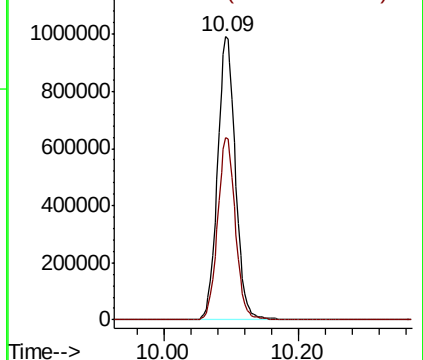


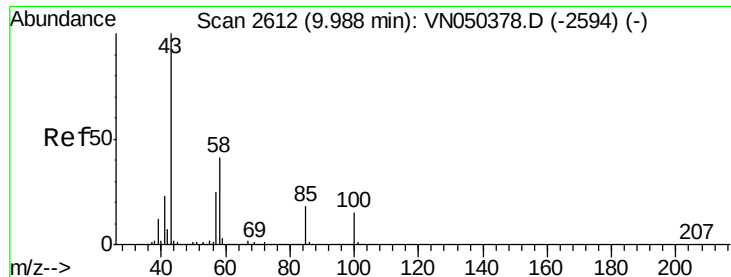
#50
Toluene-d8
Concen: 45.43 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

Tgt Ion: 98 Resp: 1839971
Ion Ratio Lower Upper
98 100
100 64.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

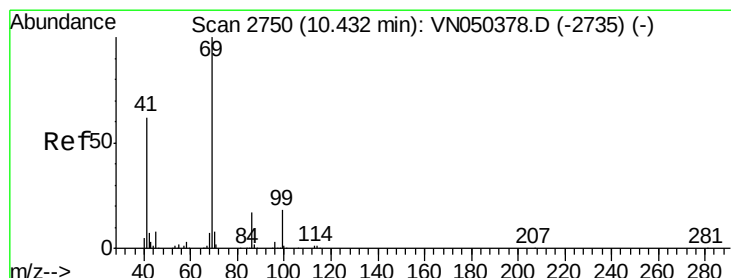
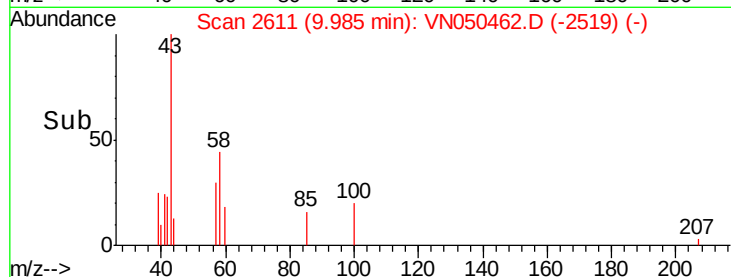
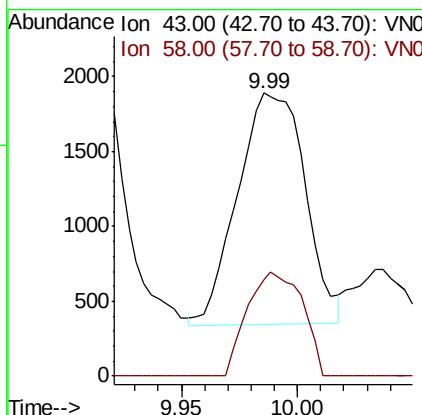
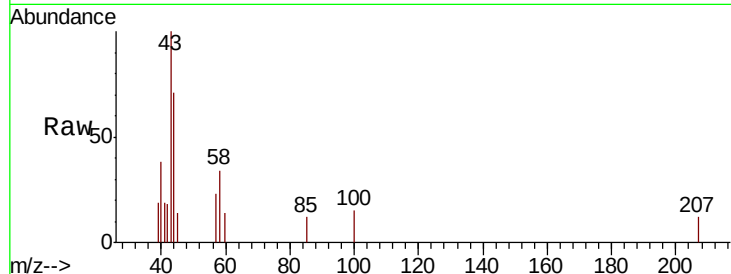




#51
4-Methyl-2-Pentanone
Concen: 0.24 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

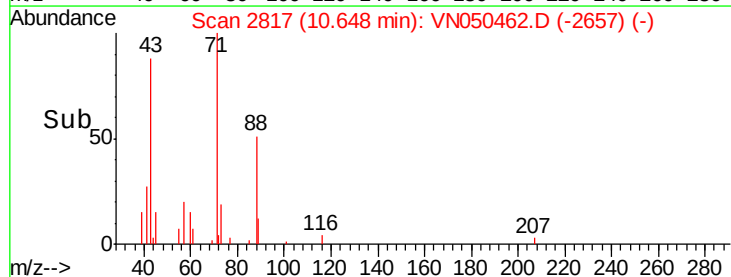
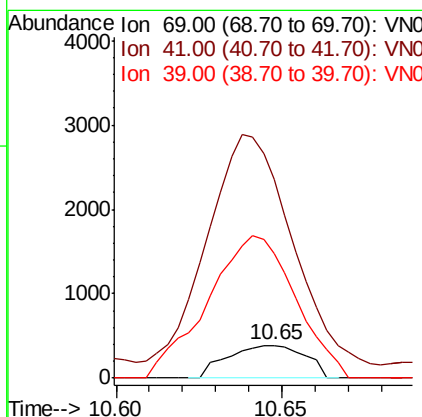
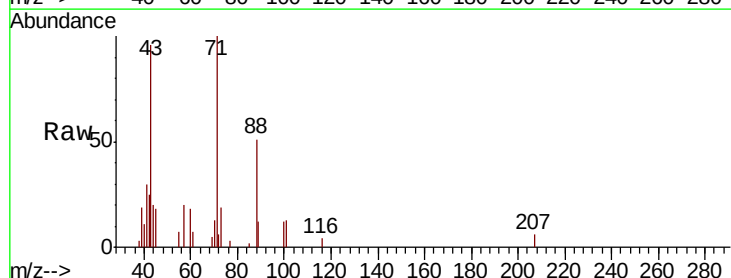
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#02

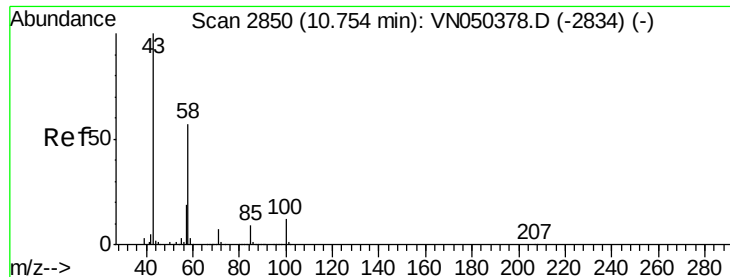
Tot Ion: 43 Resp: 3146
Ion Ratio Lower Upper
43 100
58 36.6 31.9 47.9



#56
Ethyl methacrylate
Concen: 1.75 ug/l
RT: 10.65 min Scan# 2817
Delta R.T. 0.22 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

Tgt Ion: 69 Resp: 625
Ion Ratio Lower Upper
69 100
41 793.8 51.0 76.4#
39 497.0 26.6 40.0#





#59

2-Hexanone

Concen: 2.71 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

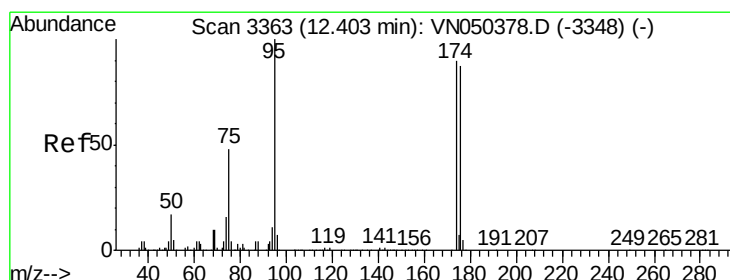
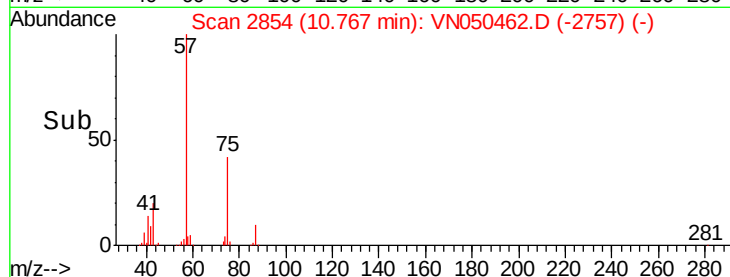
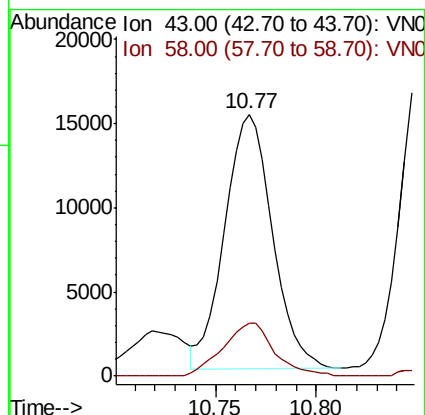
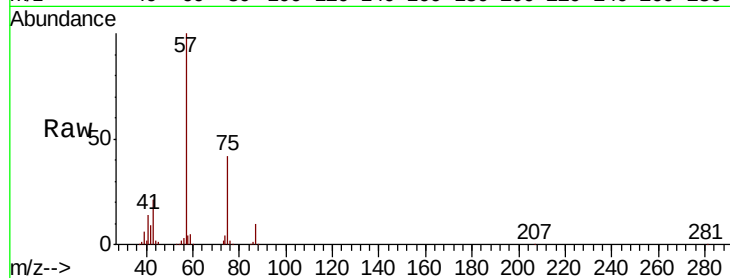
PB111846ZHE#02

Tot Ion: 43 Resp: 25003

Ion Ratio Lower Upper

43 100

58 22.5 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 40.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

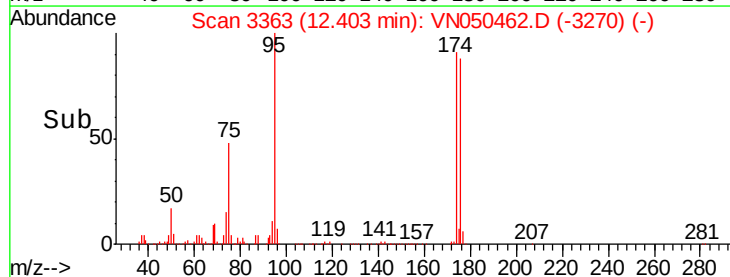
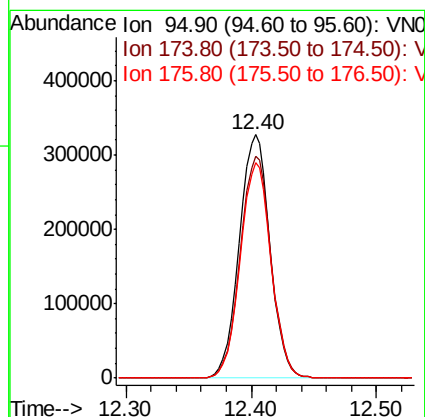
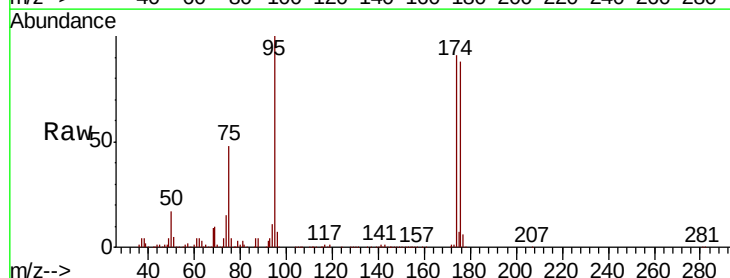
Tgt Ion: 95 Resp: 555955

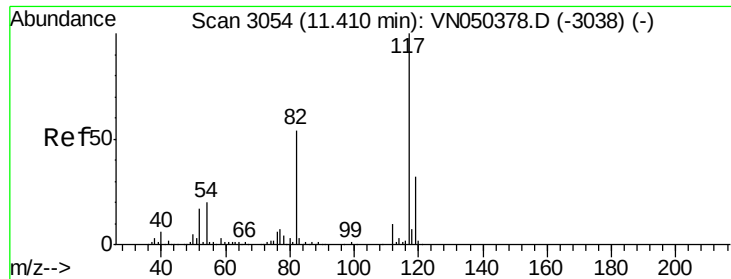
Ion Ratio Lower Upper

95 100

174 91.8 0.0 178.2

176 88.6 0.0 173.4

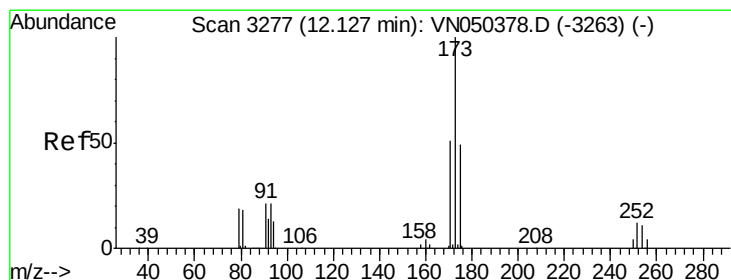
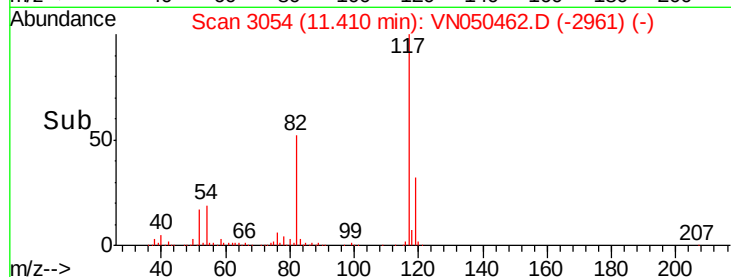
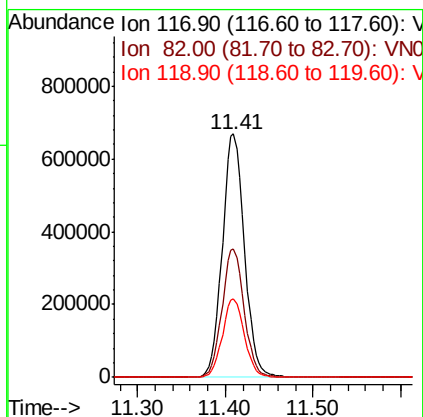
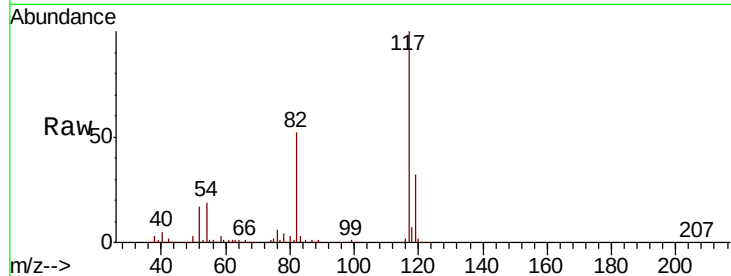




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

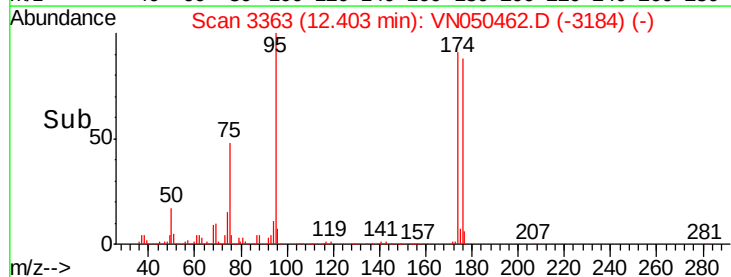
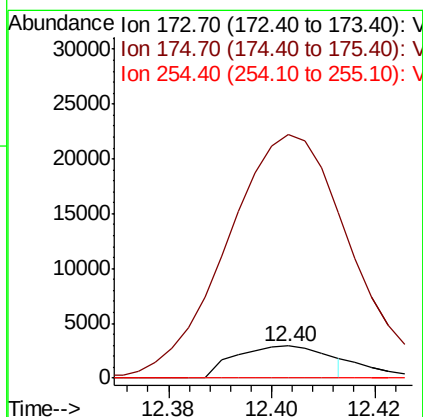
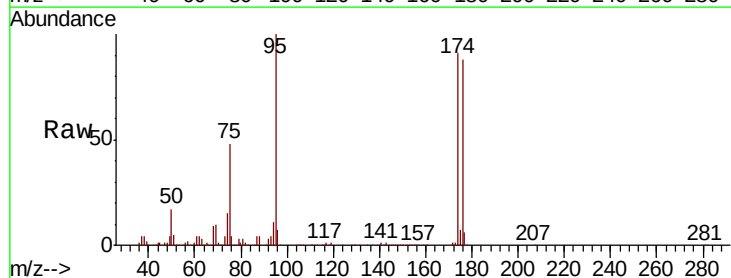
Instrument :
MSVOA_N
ClientSampleId :
PB111846ZHE#02

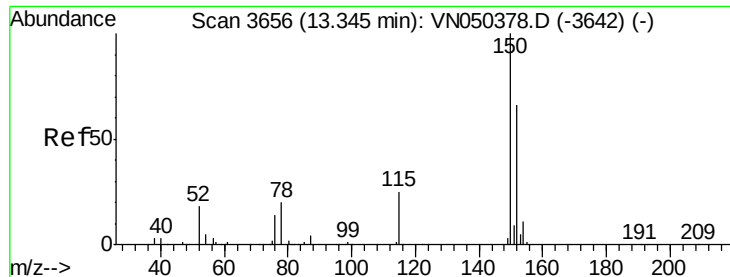
Tot Ion:117 Resp: 1171963
Ion Ratio Lower Upper
117 100
82 52.5 43.7 65.5
119 32.2 26.1 39.1



#71
Bromoform
Concen: 0.47 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050462.D
Acq: 8 Aug 2018 16:28

Tgt Ion:173 Resp: 3642
Ion Ratio Lower Upper
173 100
175 856.2 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#02

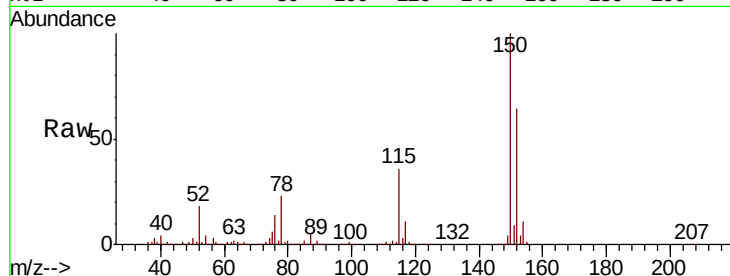
Tot Ion:152 Resp: 469062

Ion Ratio Lower Upper

152 100

115 56.5 27.8 83.3

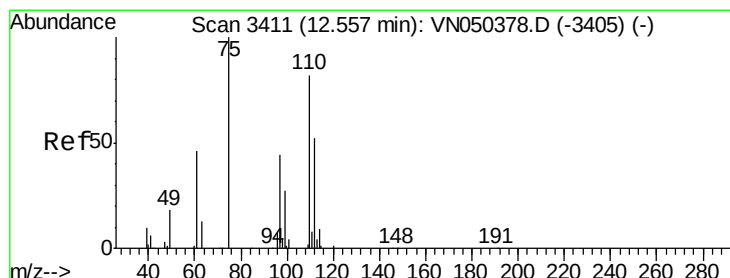
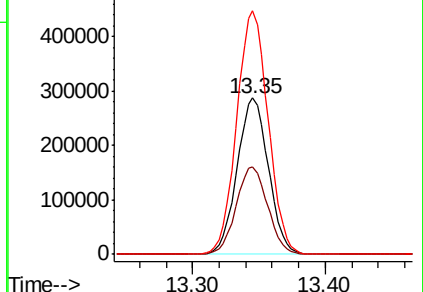
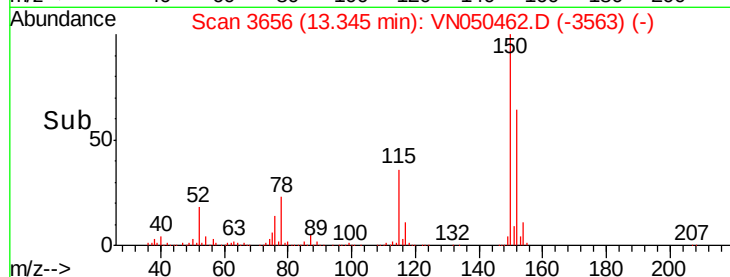
150 156.4 0.0 348.6



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: 31.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050462.D

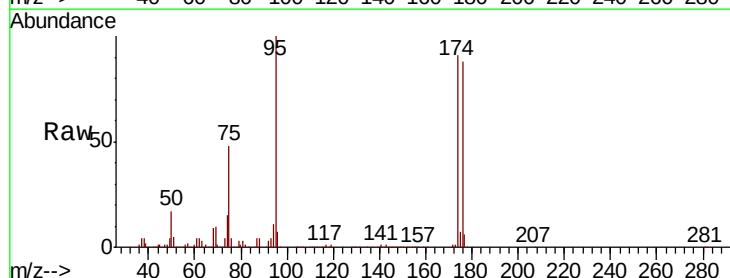
Acq: 8 Aug 2018 16:28

Tgt Ion: 75 Resp: 264834

Ion Ratio Lower Upper

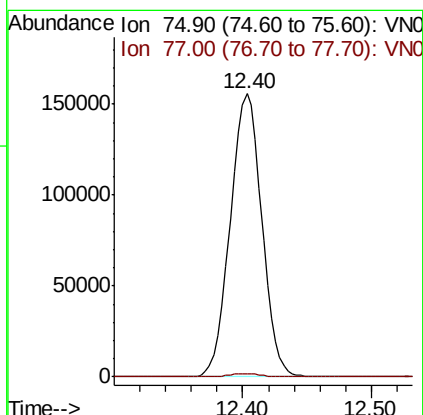
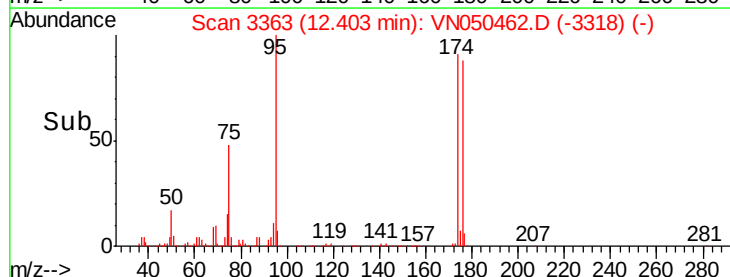
75 100

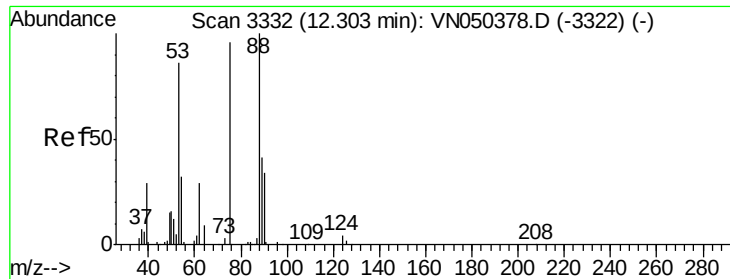
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#02

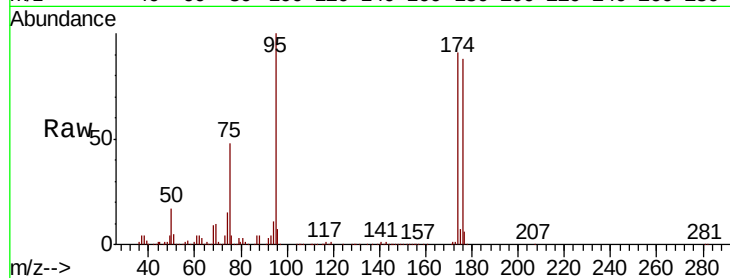
Tot Ion: 75 Resp: 264834

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

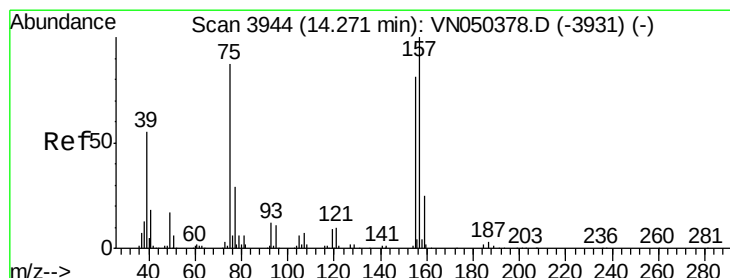
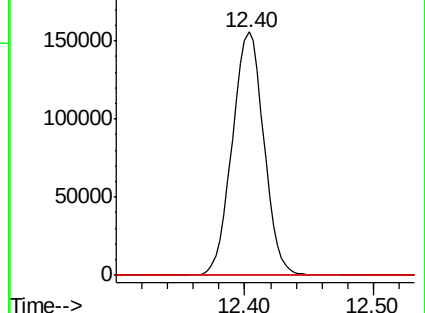
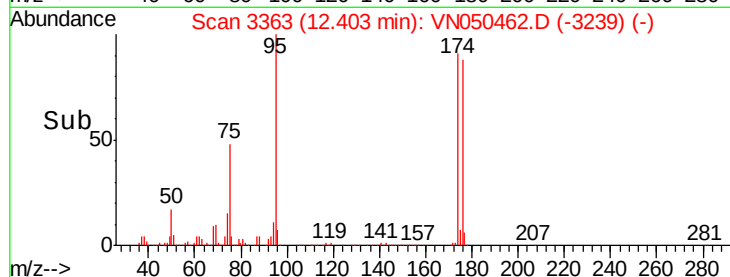
89 0.0 36.0 54.0#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.22 ug/l

RT: 14.26 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

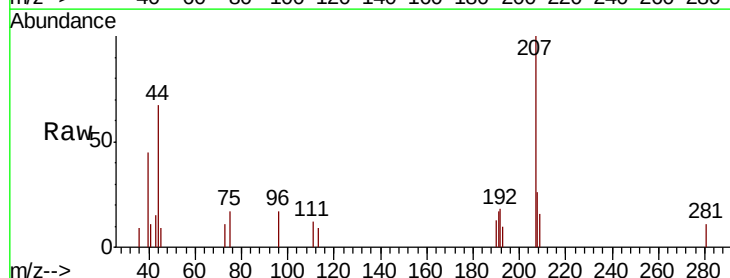
Tgt Ion: 75 Resp: 384

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

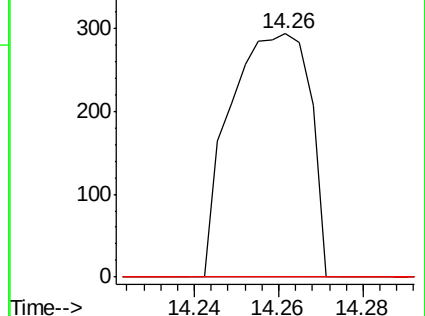
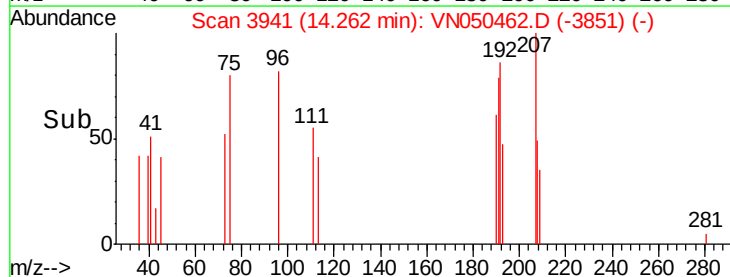
157 0.0 57.2 171.6#

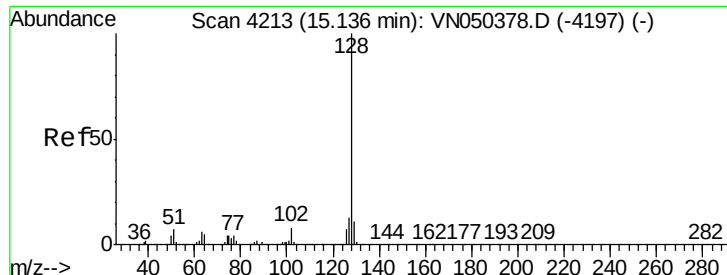


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 3.69 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050462.D

Acq: 8 Aug 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB111846ZHE#02

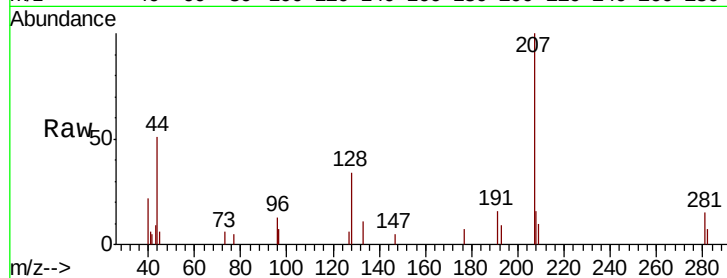
Tot Ion:128 Resp: 1652

Ion Ratio Lower Upper

128 100

127 3.9 10.4 15.6#

129 0.0 8.8 13.2#



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

