

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050082.D
 Acq On : 26 Jul 2018 15:12
 Operator : MD\SY
 Sample : J4164-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-072518

Quant Time: Jul 27 01:19:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	636228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1035745	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	859058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	303619	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	449894	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
35) Dibromofluoromethane	7.59	113	402094	47.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.10%	
50) Toluene-d8	10.09	98	1391951	44.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.54%	
62) 4-Bromofluorobenzene	12.41	95	373181	36.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.90%	

Target Compounds

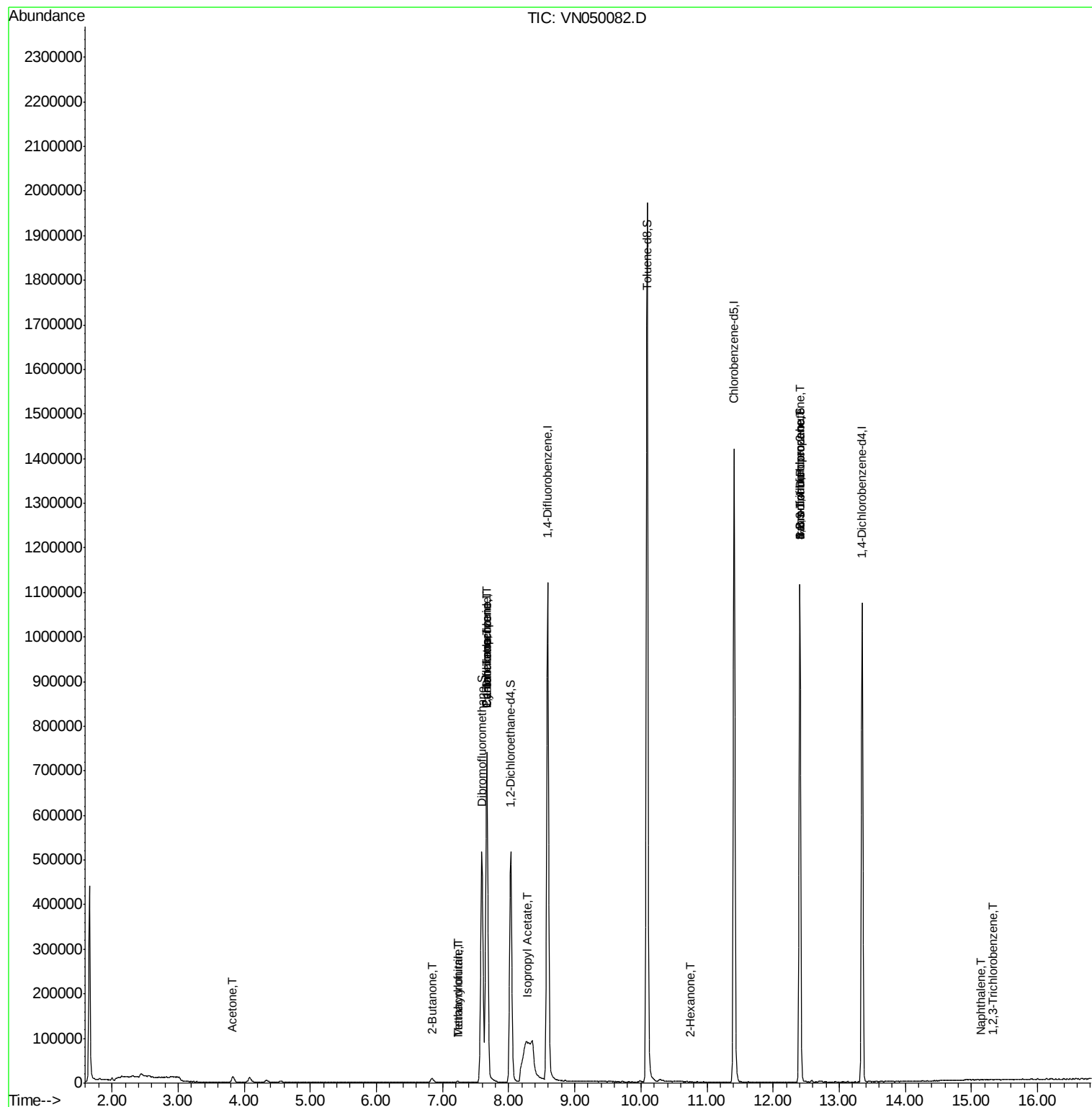
					Qvalue
5) Bromomethane	2.56	94	691	Below Cal	82
16) Acetone	3.82	43	23178	6.86 ug/l	98
18) Methyl Acetate	4.34	43	9371	Below Cal	92
20) Methylene Chloride	4.56	84	2755	Below Cal #	84
25) 2-Butanone	6.85	43	5030	1.49 ug/l #	81
29) Tetrahydrofuran	7.23	42	2037	0.93 ug/l #	69
31) Cyclohexane	7.67	56	12158	0.93 ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44703	3.83 ug/l #	48
38) Carbon Tetrachloride	7.67	117	57061	4.61 ug/l #	17
41) Methacrylonitrile	7.22	41	1345	3.05 ug/l #	32
43) Isopropyl Acetate	8.27	43	152097	8.99 ug/l #	61
59) 2-Hexanone	10.75	43	85	5.19 ug/l #	24
71) Bromoform	12.40	173	3381	0.56 ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	232	Below Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	182425	32.33 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	182425	102.55 ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	33	Below Cal #	1
95) Naphthalene	15.13	128	625	4.46 ug/l #	69
96) 1,2,3-Trichlorobenzene	15.33	180	31	2.21 ug/l #	12

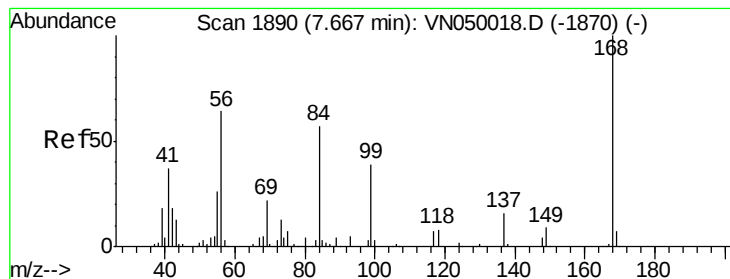
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampled :

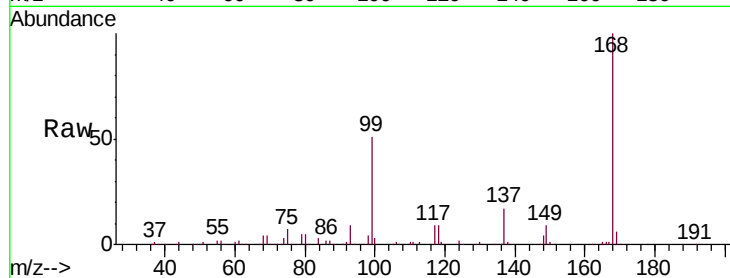
FB-072518

Tot Ion:168 Resp: 636228

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050018.D (-1870) (-)

7.67

250000

200000

150000

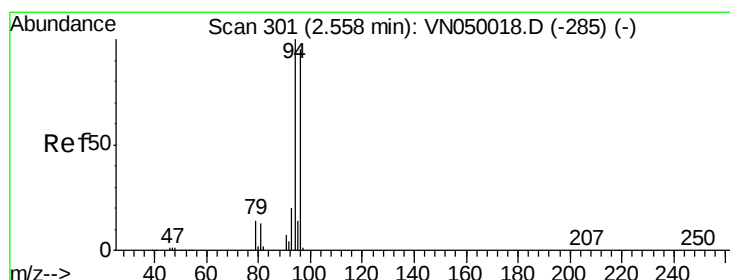
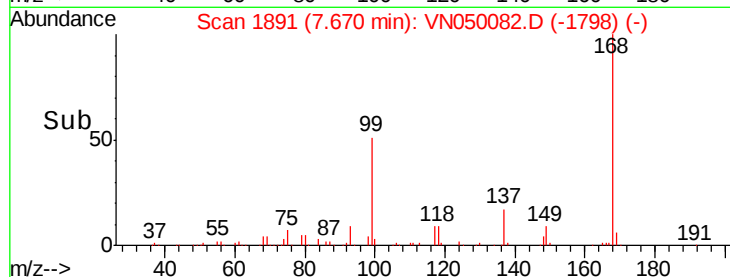
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050082.D

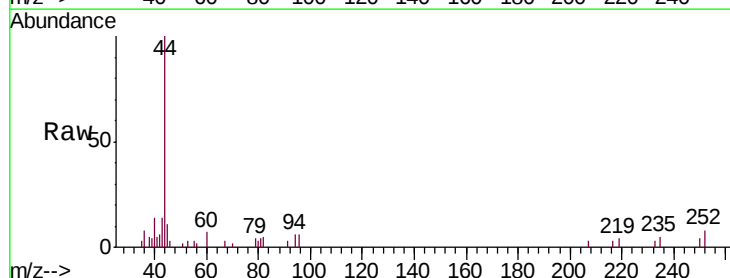
Acq: 26 Jul 2018 15:12

Tgt Ion: 94 Resp: 691

Ion Ratio Lower Upper

94 100

96 110.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050018.D (-285) (-)

Ion 95.90 (95.60 to 96.60): VN050018.D (-285) (-)

2.56

500

400

300

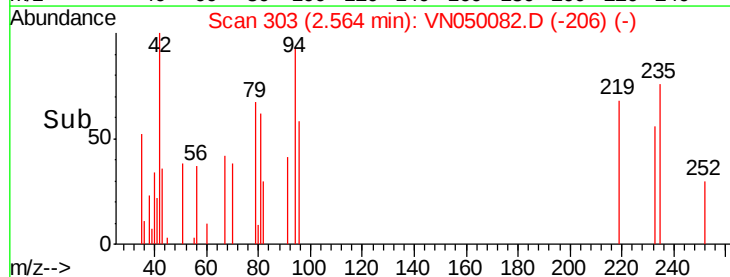
200

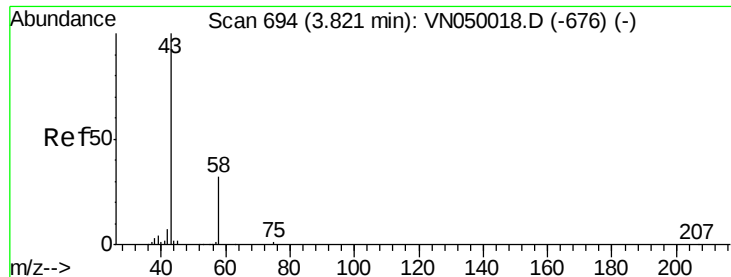
100

0

2.55 2.60

Time-->





#16

Acetone

Concen: 6.86 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

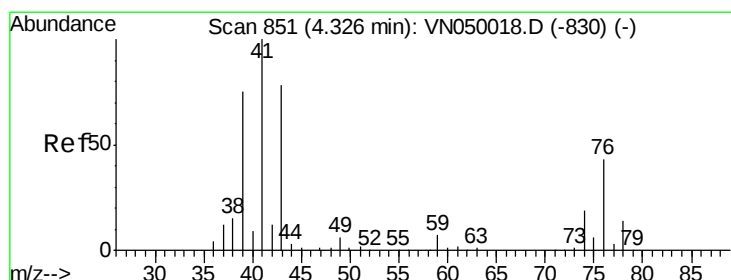
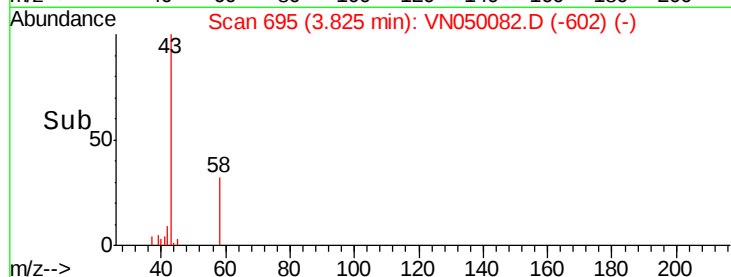
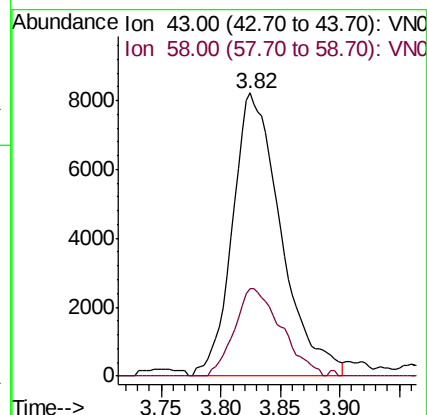
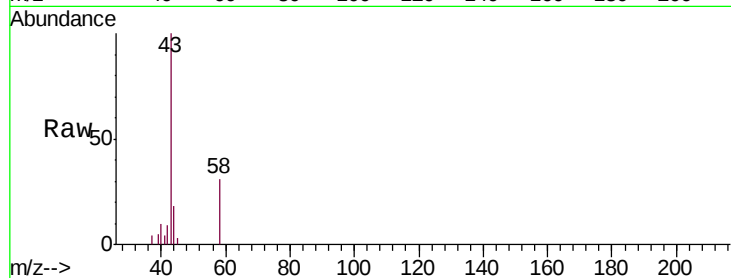
FB-072518

Tot Ion: 43 Resp: 23178

Ion Ratio Lower Upper

43 100

58 31.0 25.8 38.8



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050082.D

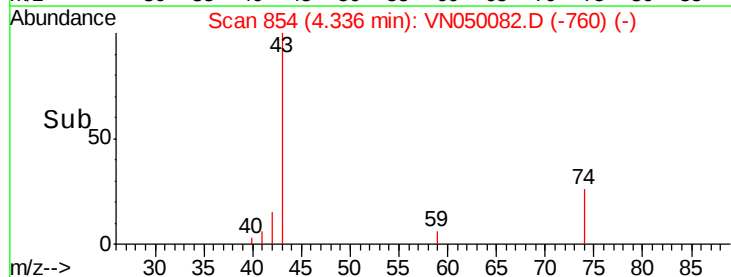
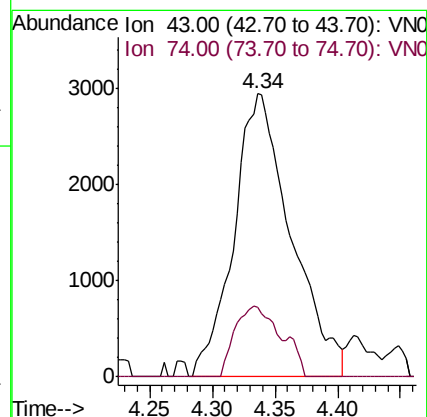
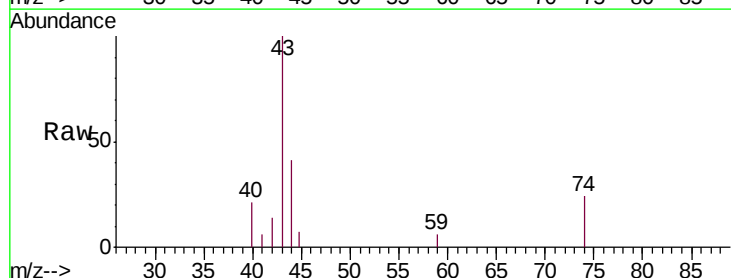
Acq: 26 Jul 2018 15:12

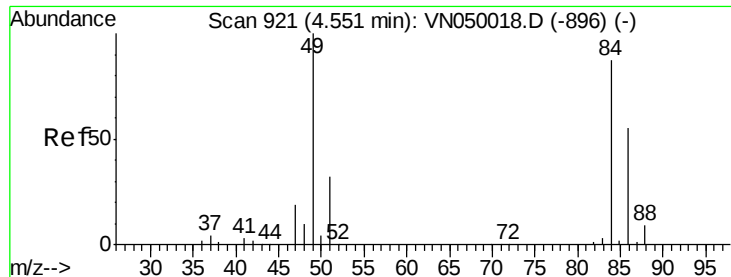
Tgt Ion: 43 Resp: 9371

Ion Ratio Lower Upper

43 100

74 20.3 19.2 28.8

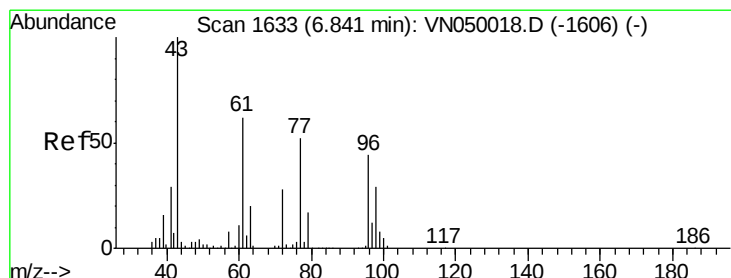
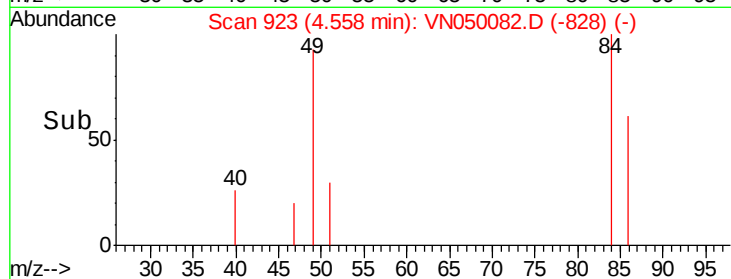
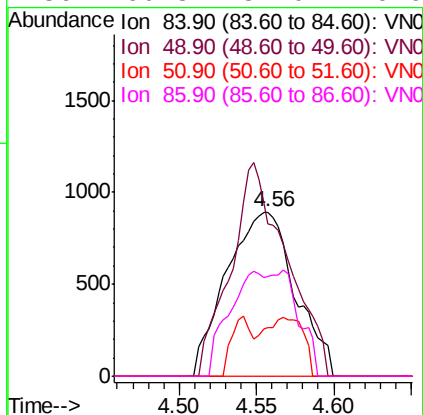
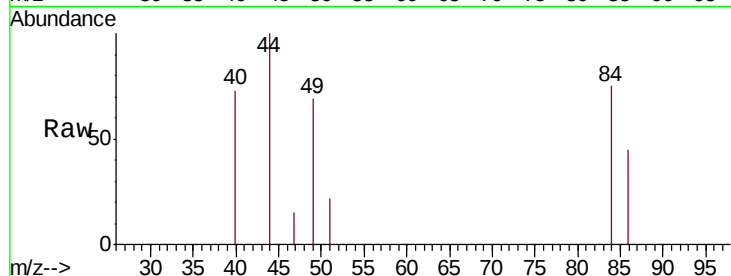




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

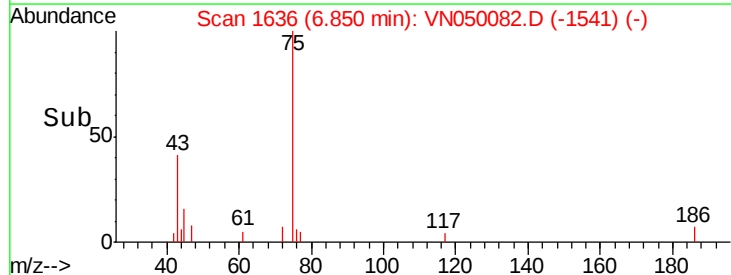
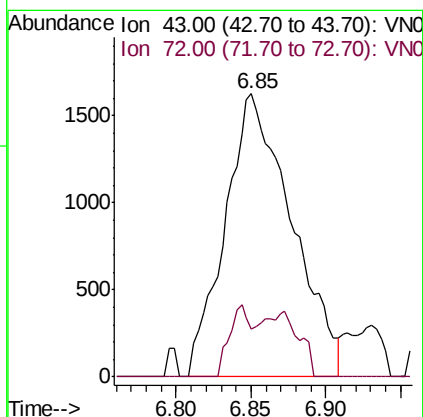
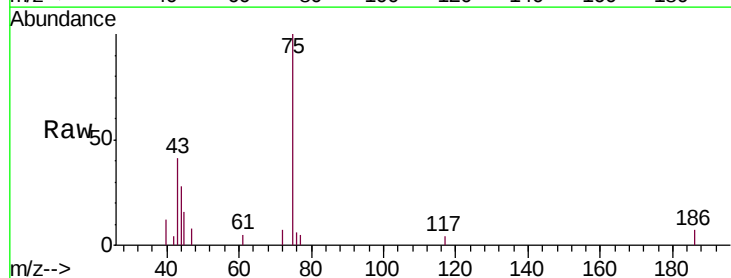
Instrument :
MSVOA_N
ClientSampled :
FB-072518

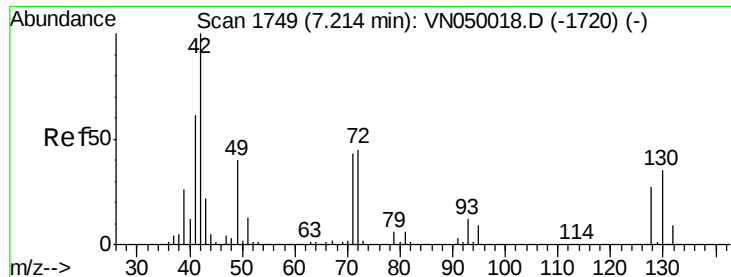
Tot Ion: 84 Resp: 2755
Ion Ratio Lower Upper
84 100
49 92.6 94.8 142.2#
51 29.7 28.3 42.5
86 60.8 51.0 76.6



#25
2-Butanone
Concen: 1.49 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

Tgt Ion: 43 Resp: 5030
Ion Ratio Lower Upper
43 100
72 16.8 21.5 32.3#





#29

Tetrahydrofuran

Concen: 0.93 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampled :

FB-072518

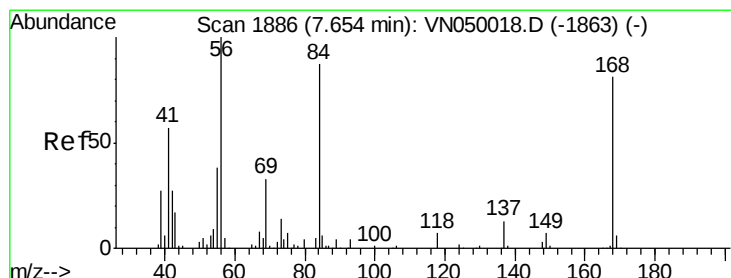
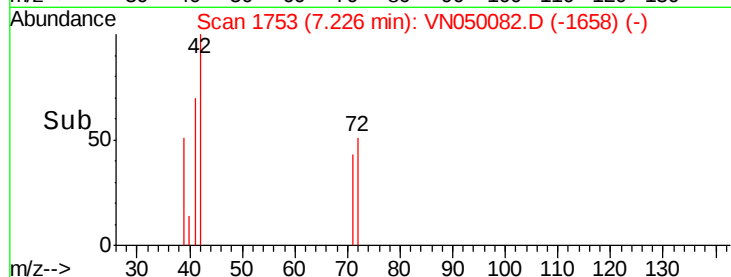
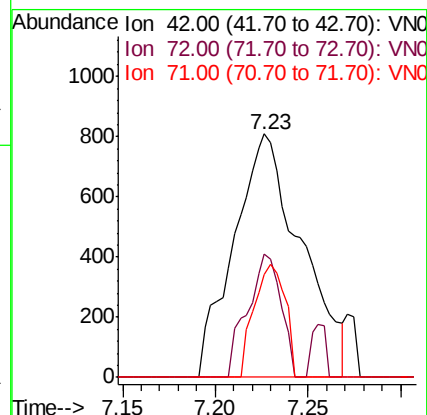
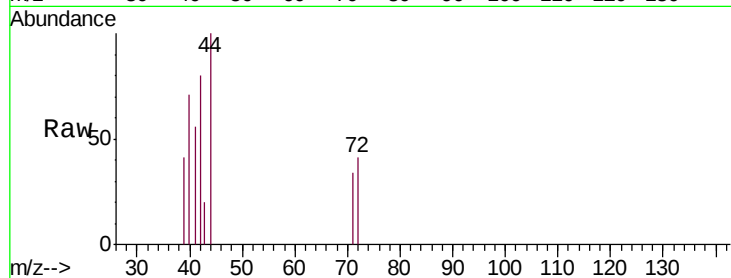
Tot Ion: 42 Resp: 2037

Ion Ratio Lower Upper

42 100

72 25.2 35.9 53.9#

71 21.4 33.7 50.5#



#31

Cyclohexane

Concen: 0.93 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

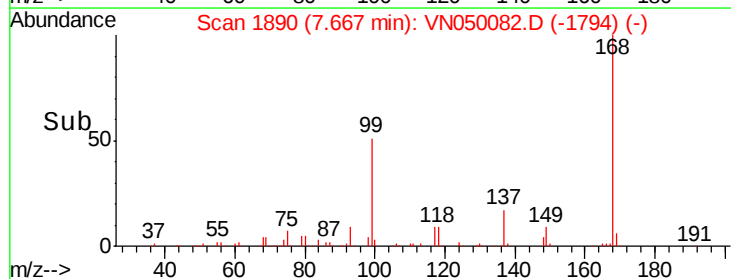
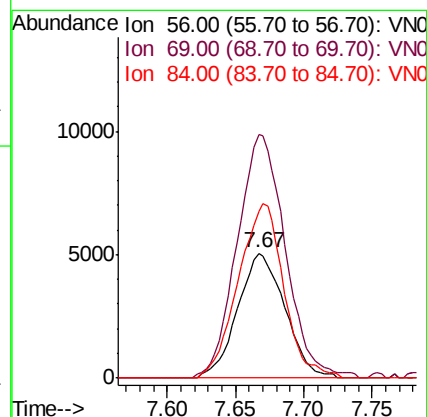
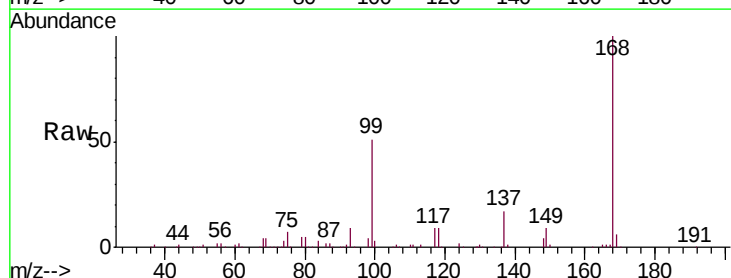
Tgt Ion: 56 Resp: 12158

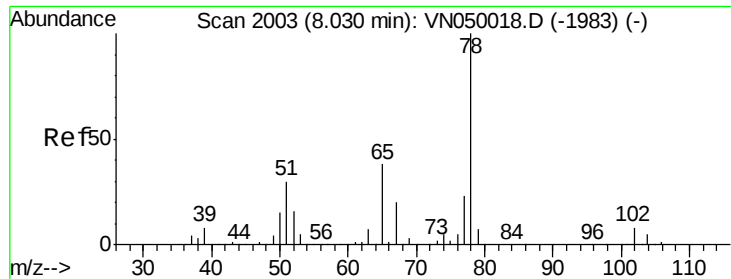
Ion Ratio Lower Upper

56 100

69 195.2 26.2 39.4#

84 133.4 67.4 101.0#

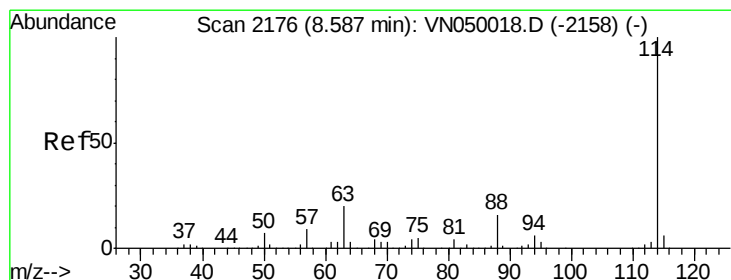
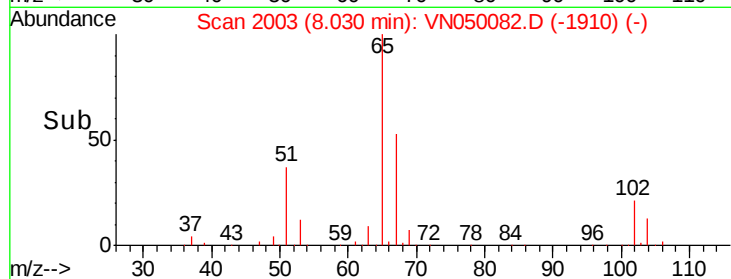
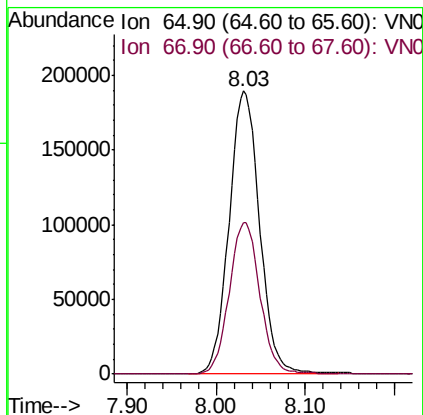
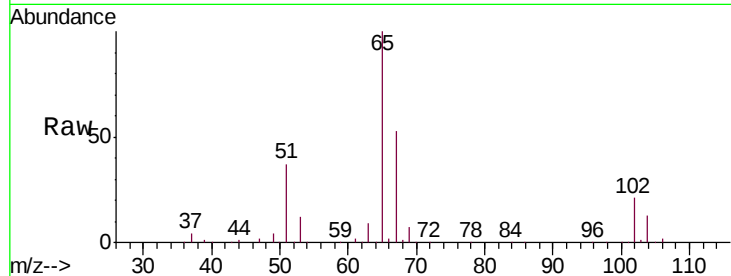




#33
 1,2-Dichloroethane-d4
 Concen: 50.68 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050082.D
 Acq: 26 Jul 2018 15:12

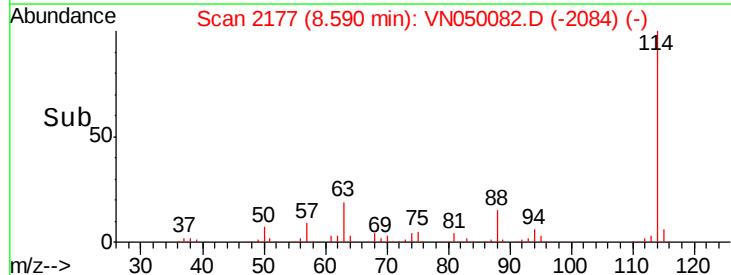
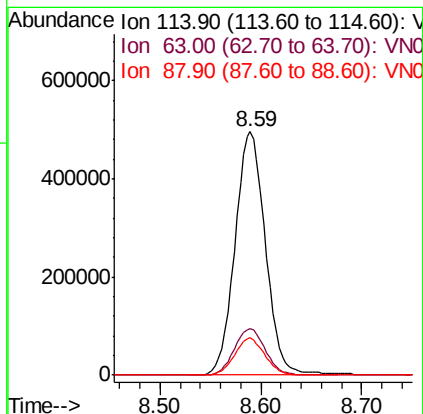
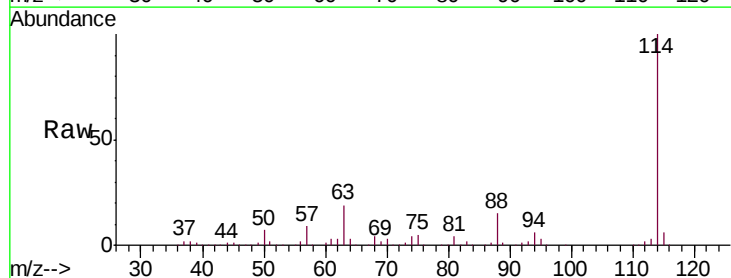
Instrument :
 MSVOA_N
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 FB-072518

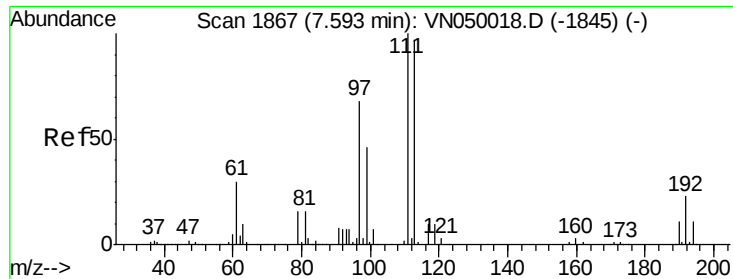
Tot Ion: 65 Resp: 449894
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050082.D
 Acq: 26 Jul 2018 15:12

Tgt Ion: 114 Resp: 1035745
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.2 0.0 31.2

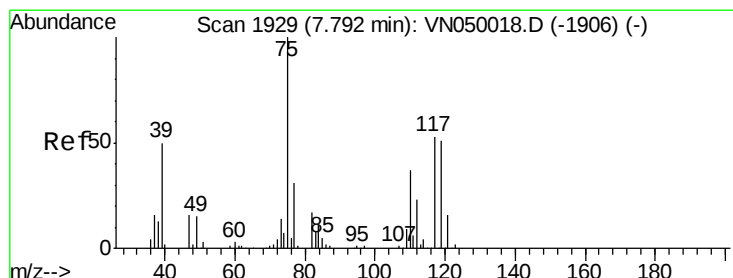
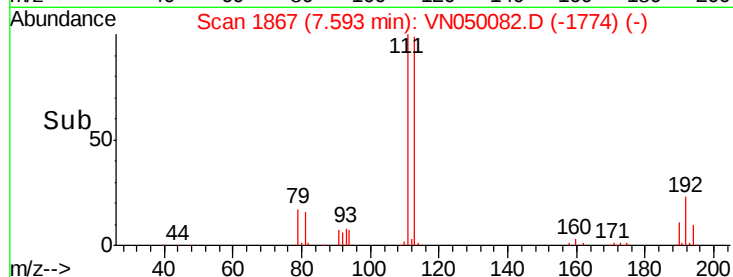
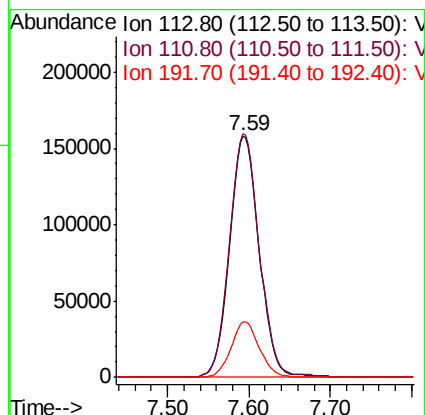
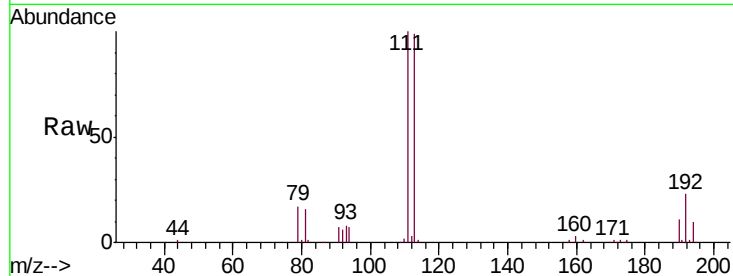




#35
Dibromofluoromethane
Concen: 47.55 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

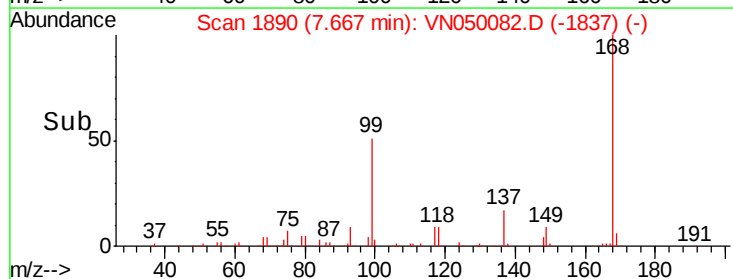
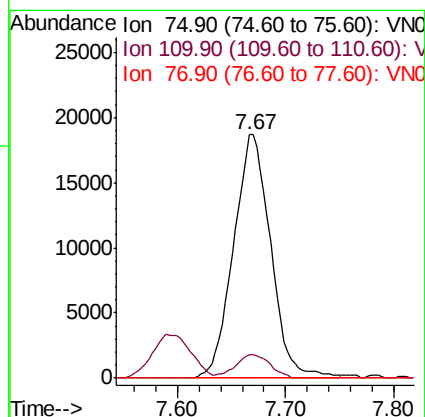
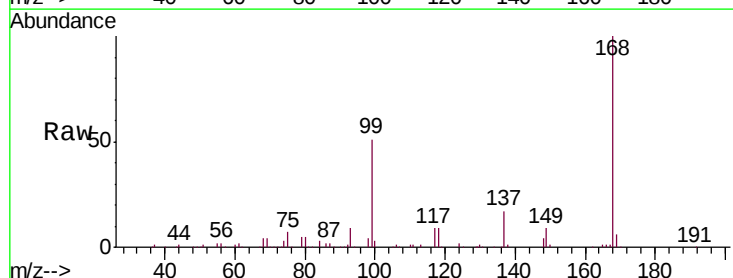
Instrument :
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FB-072518

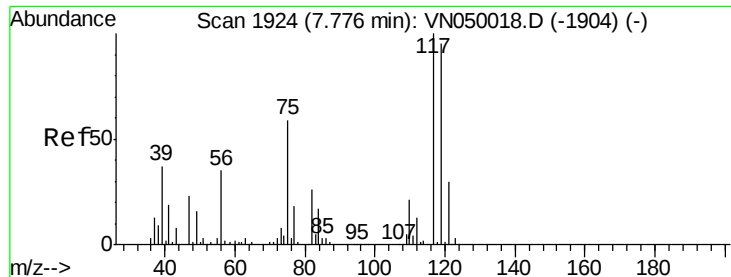
Tot Ion:113 Resp: 402094
Ion Ratio Lower Upper
113 100
111 101.9 80.7 121.1
192 22.1 17.8 26.6



#36
1,1-Dichloropropene
Concen: 3.83 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

Tgt Ion: 75 Resp: 44703
Ion Ratio Lower Upper
75 100
110 8.8 18.4 55.2#
77 0.0 25.3 37.9#

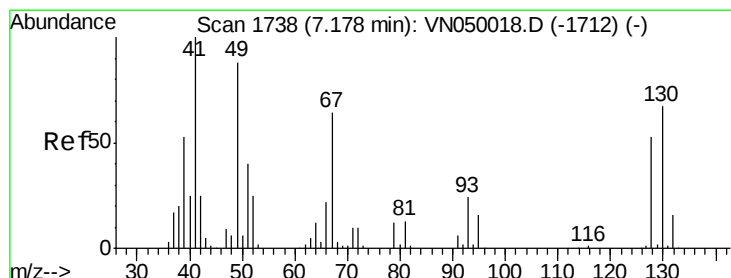
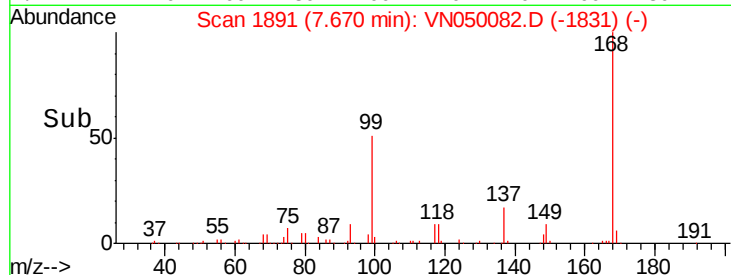
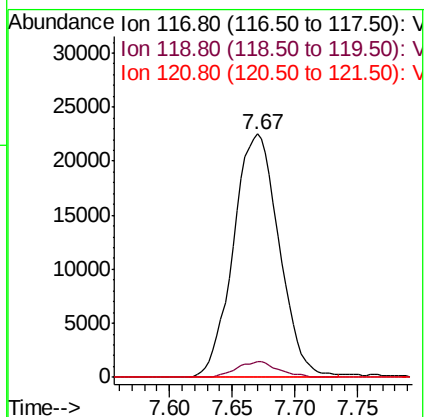
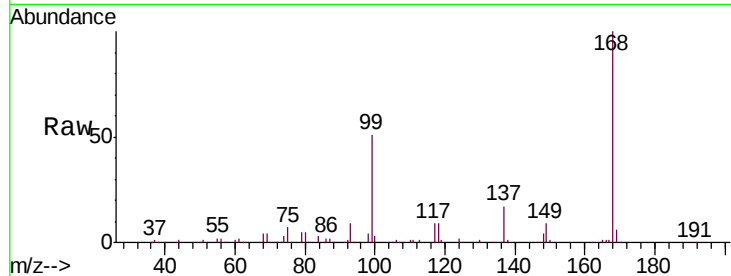




#38
Carbon Tetrachloride
Concen: 4.61 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

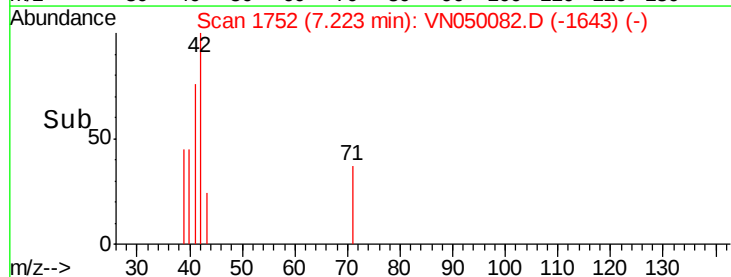
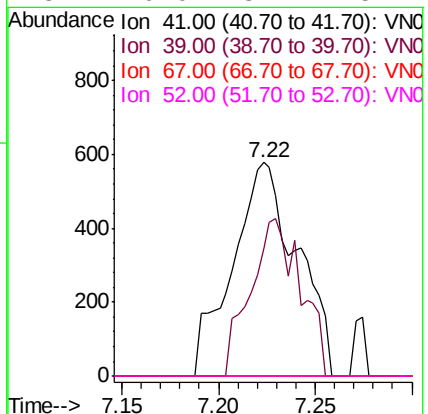
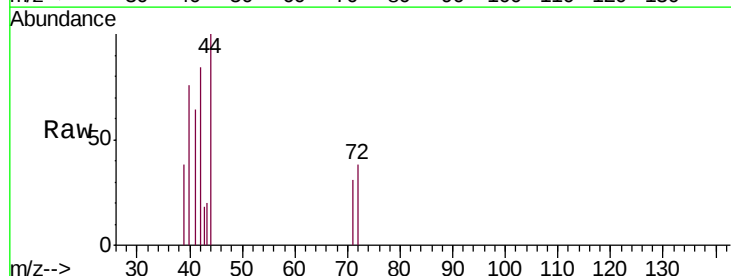
Instrument :
MSVOA_N
ClientSampled :
FB-072518

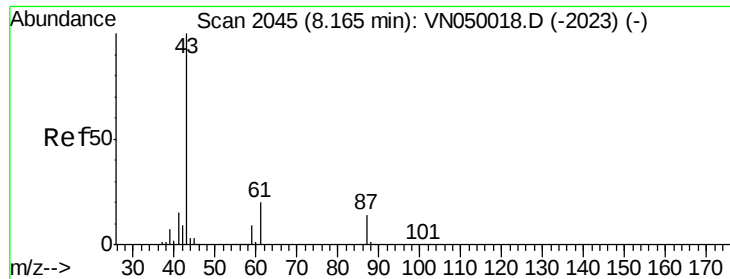
Tot Ion:117 Resp: 57061
Ion Ratio Lower Upper
117 100
119 6.5 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 3.05 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.05 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

Tgt Ion: 41 Resp: 1345
Ion Ratio Lower Upper
41 100
39 57.0 55.8 83.6
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 8.99 ug/l

RT: 8.27 min Scan# 2078

Delta R.T. 0.10 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

FB-072518

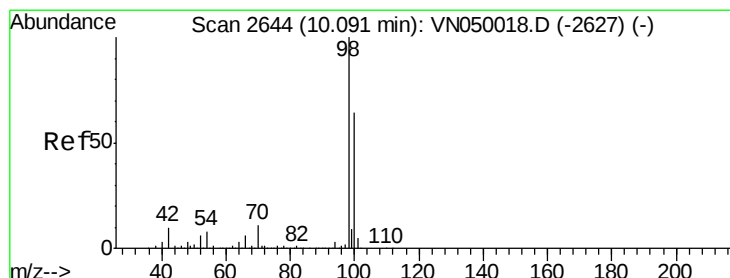
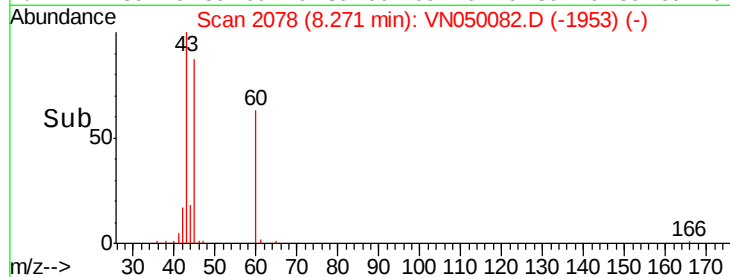
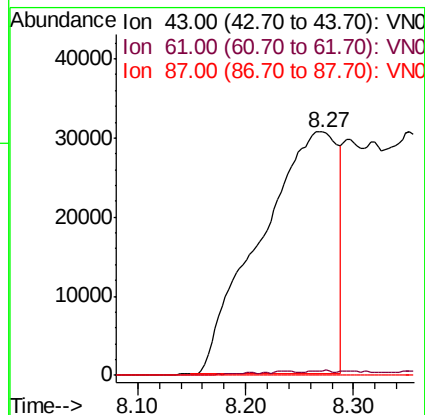
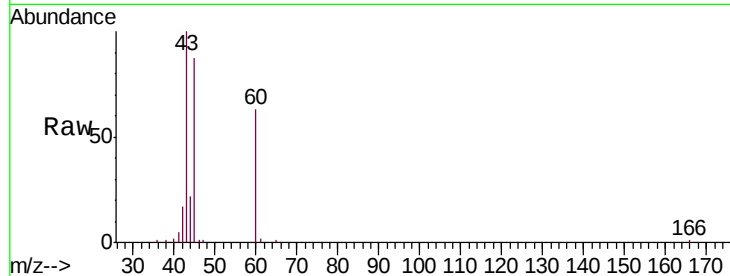
Tot Ion: 43 Resp: 152097

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 44.77 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050082.D

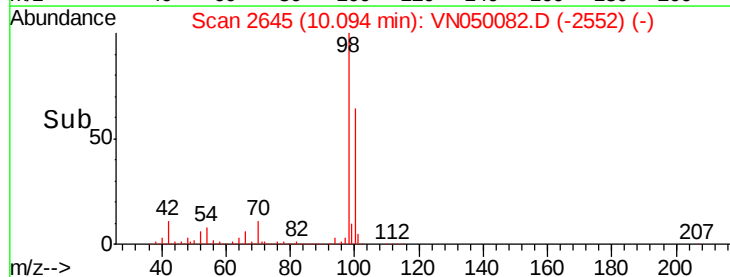
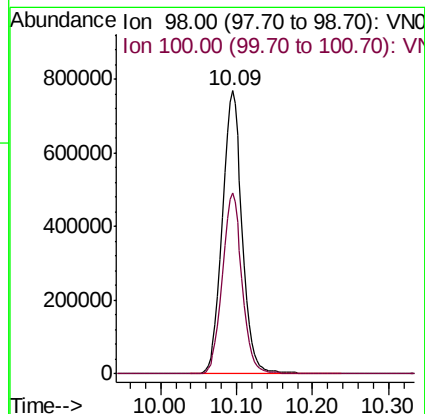
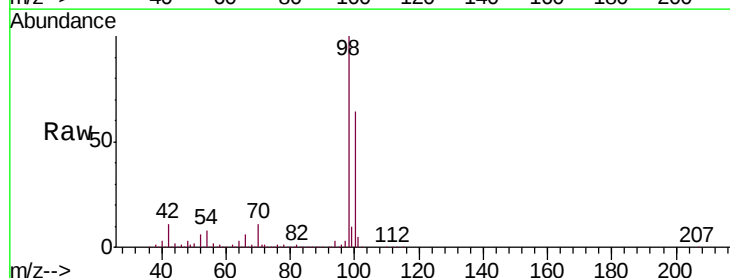
Acq: 26 Jul 2018 15:12

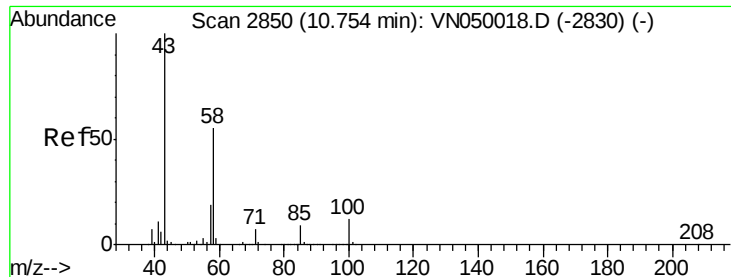
Tgt Ion: 98 Resp: 1391951

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1

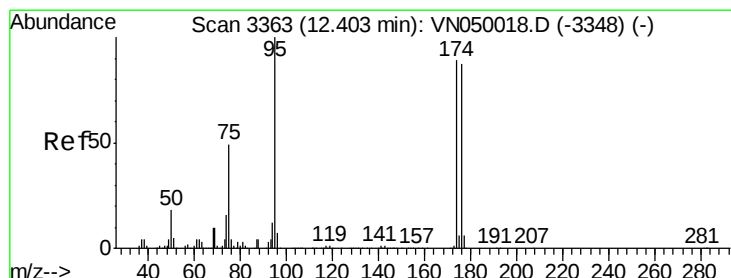
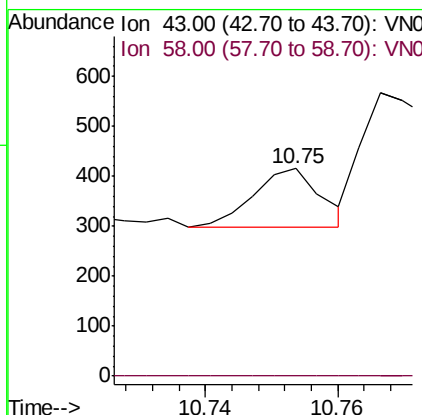
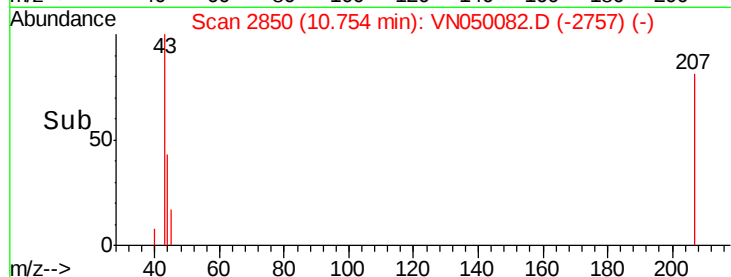
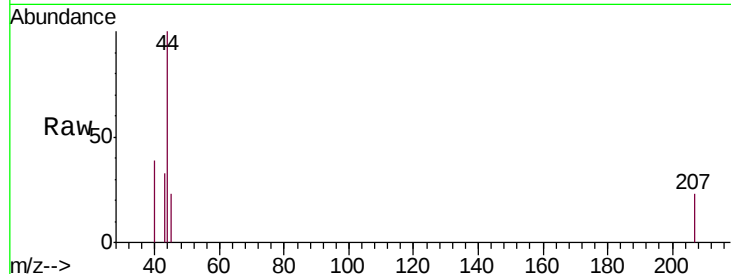




#59
2-Hexanone
Concen: 5.19 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

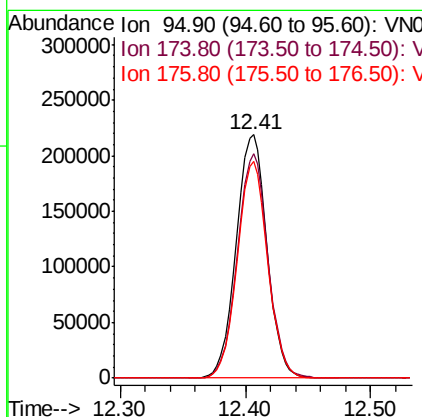
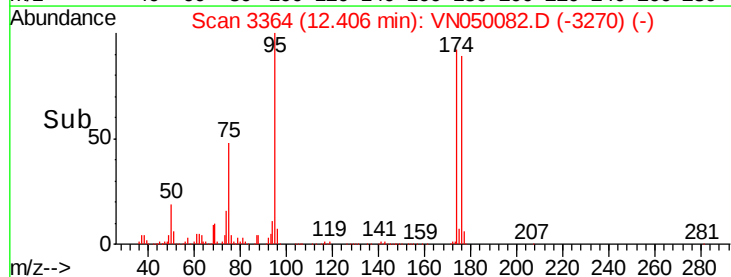
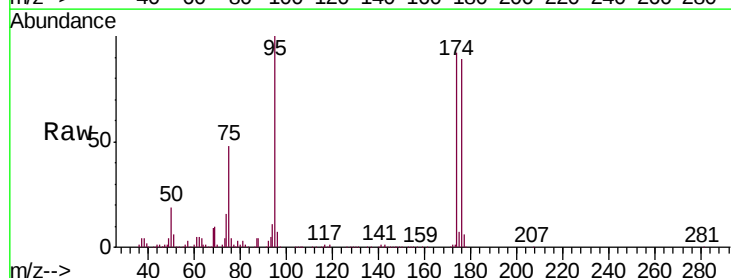
Instrument :
MSVOA_N
ClientSampled :
FB-072518

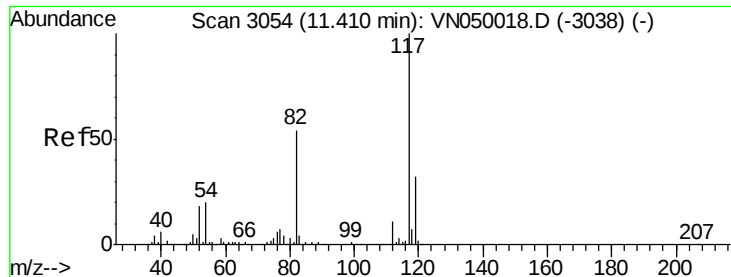
Tot Ion: 43 Resp: 85
Ion Ratio Lower Upper
43 100
58 0.0 27.6 82.7#



#62
4-Bromofluorobenzene
Concen: 36.45 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

Tgt Ion: 95 Resp: 373181
Ion Ratio Lower Upper
95 100
174 91.9 0.0 178.2
176 87.8 0.0 173.4

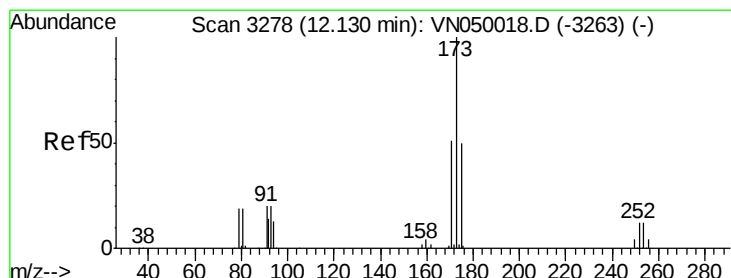
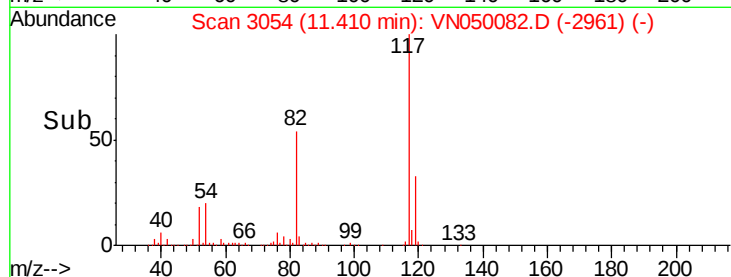
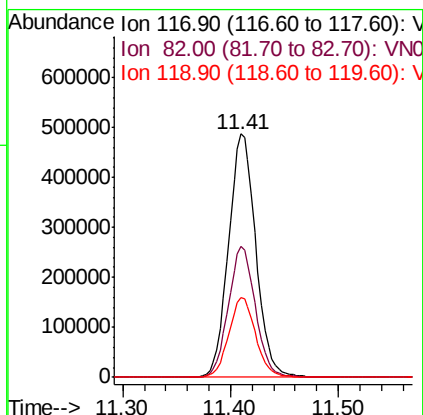
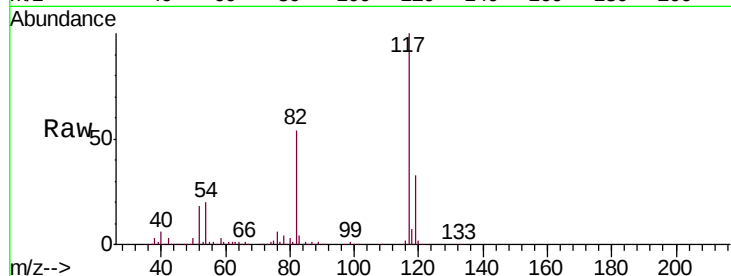




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

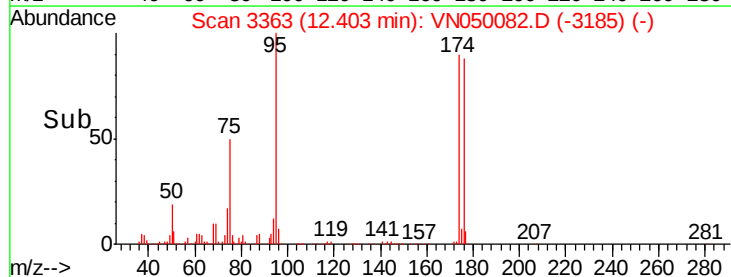
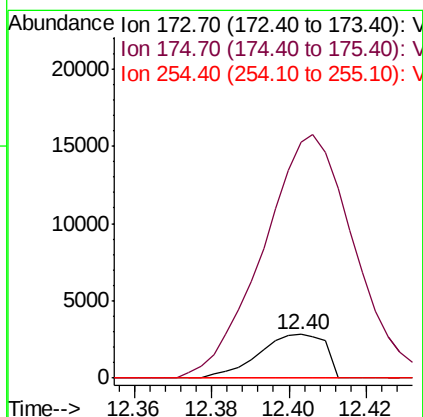
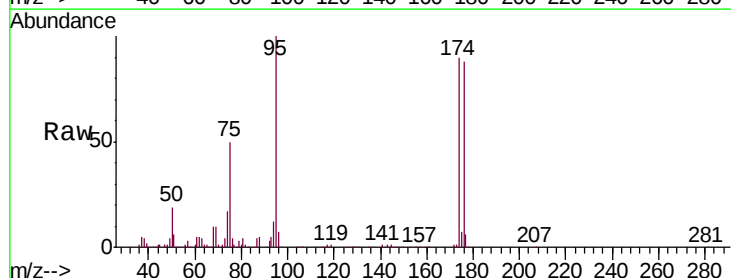
Instrument :
MSVOA_N
ClientSampled :
FB-072518

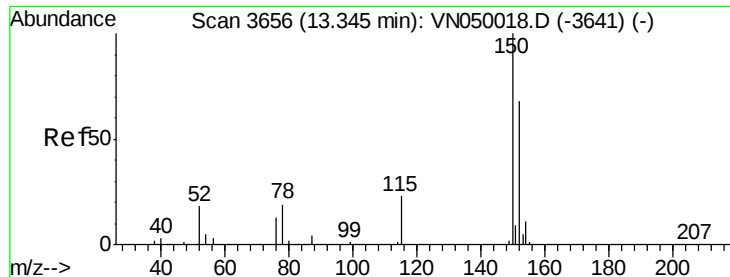
Tot Ion:117 Resp: 859058
Ion Ratio Lower Upper
117 100
82 53.6 43.7 65.5
119 32.8 26.1 39.1



#71
Bromoform
Concen: 0.56 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.27 min
Lab File: VN050082.D
Acq: 26 Jul 2018 15:12

Tgt Ion:173 Resp: 3381
Ion Ratio Lower Upper
173 100
175 663.6 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# 3657

Delta R.T. 0.00 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

FB-072518

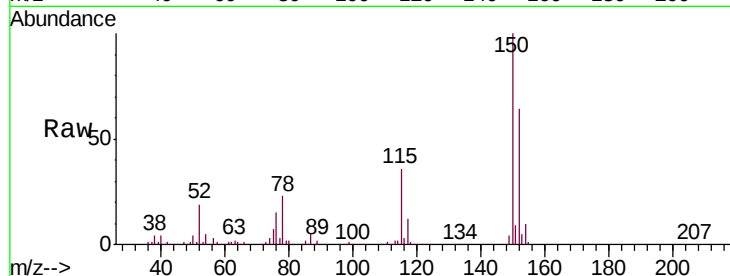
Tot Ion:152 Resp: 303619

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

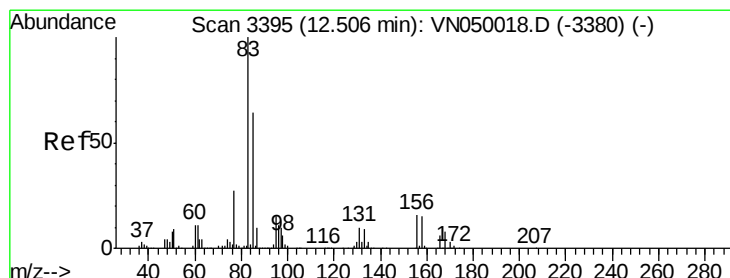
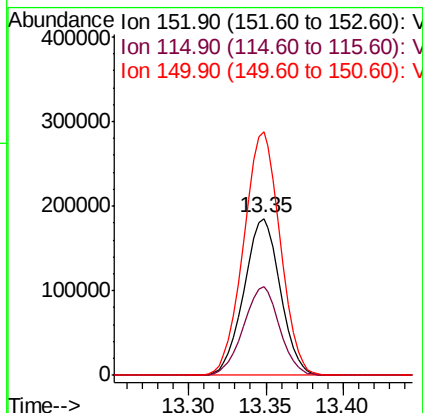
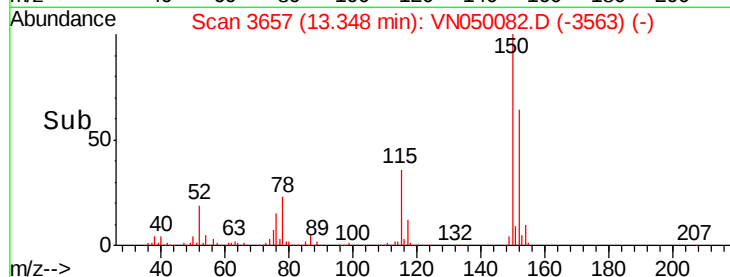
150 156.2 0.0 348.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

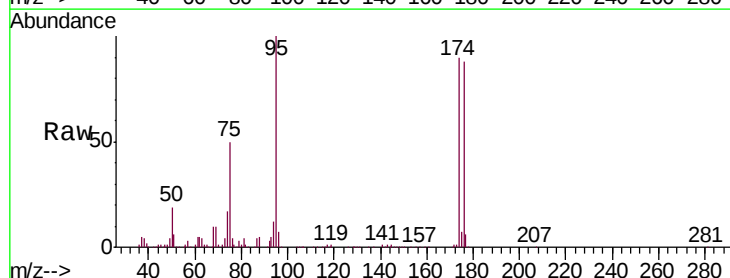
Tgt Ion: 83 Resp: 232

Ion Ratio Lower Upper

83 100

131 215.1 5.1 15.3#

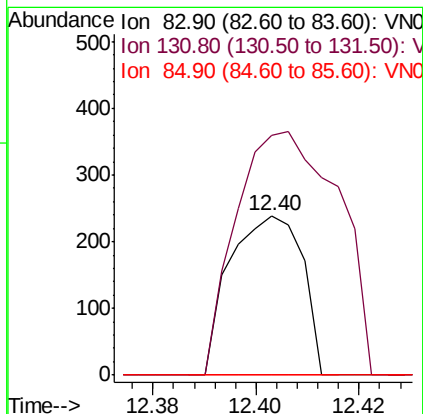
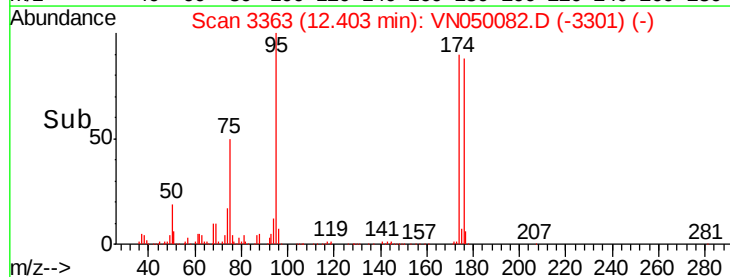
85 0.0 32.3 96.8#

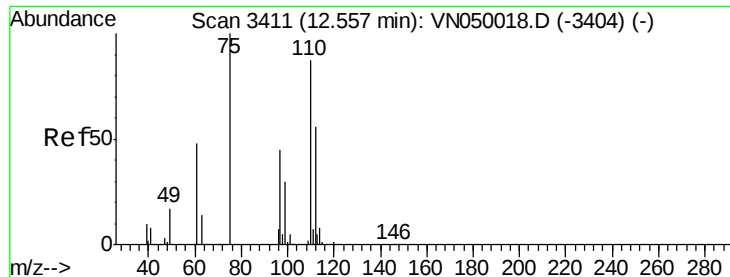


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 32.33 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

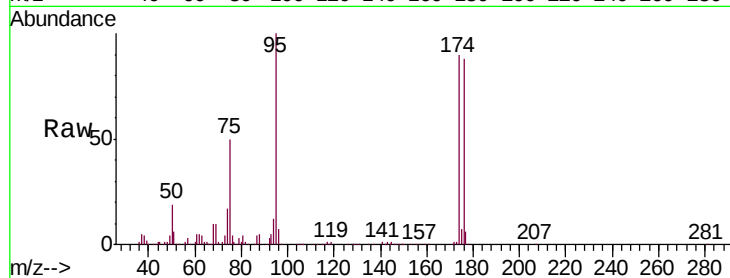
FB-072518

Tot Ion: 75 Resp: 182425

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

120000

100000

80000

60000

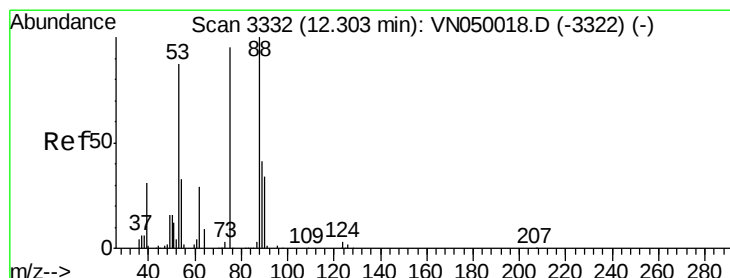
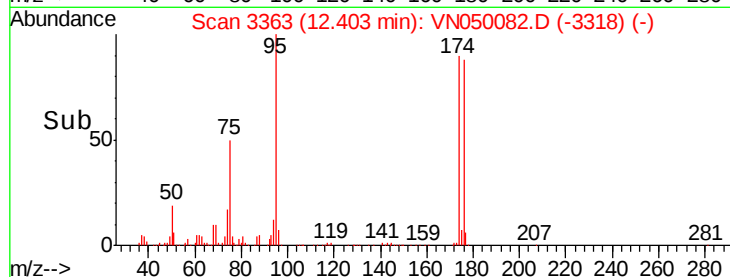
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 102.55 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

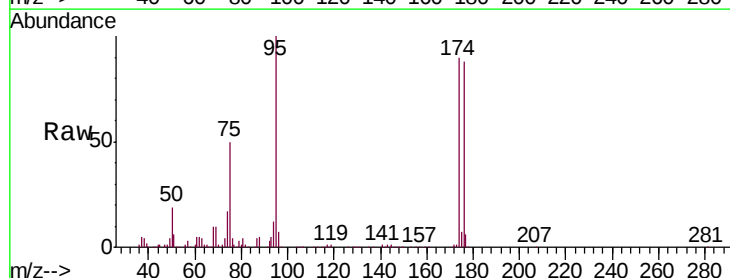
Tgt Ion: 75 Resp: 182425

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

150000

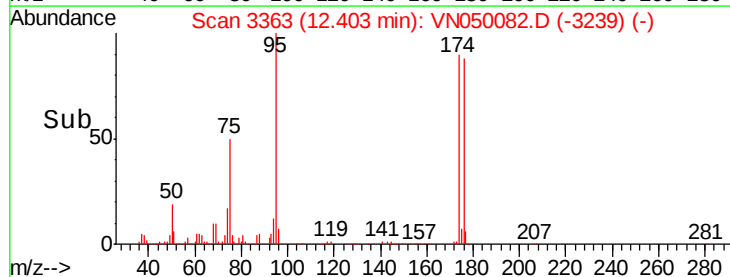
100000

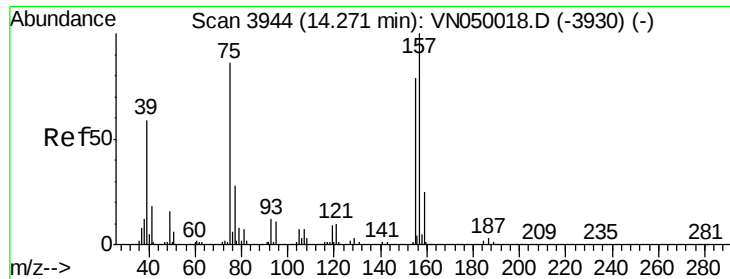
50000

0

12.35 12.40 12.45

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampled :

FB-072518

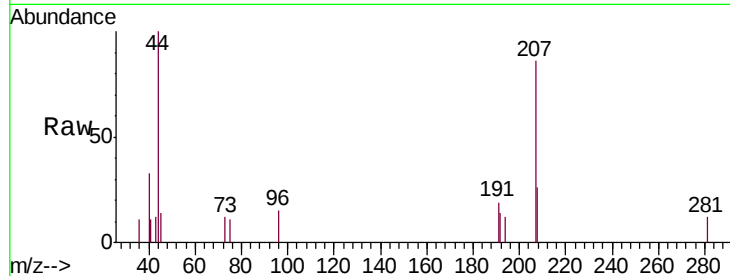
Tot Ion: 75 Resp: 33

Ion Ratio Lower Upper

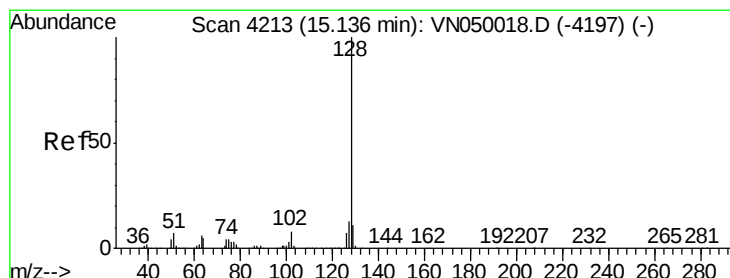
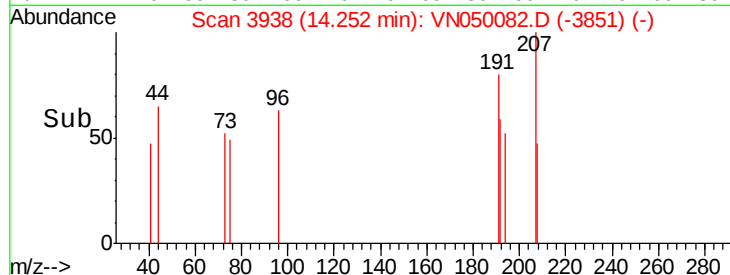
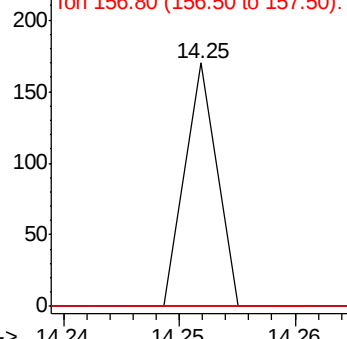
75 100

155 0.0 44.8 134.4#

157 0.0 57.2 171.6#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3930) (-)



#95

Naphthalene

Concen: 4.46 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

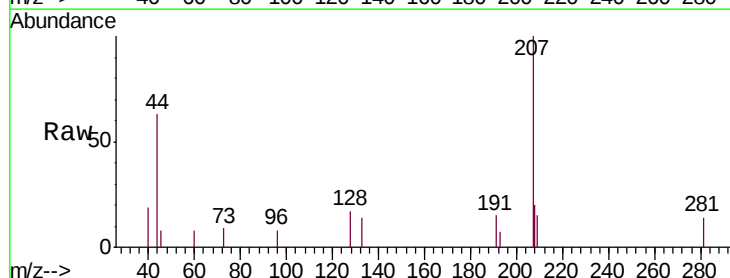
Tgt Ion: 128 Resp: 625

Ion Ratio Lower Upper

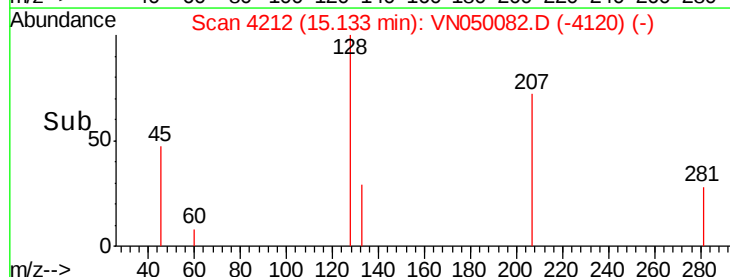
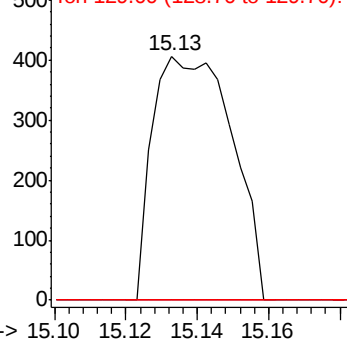
128 100

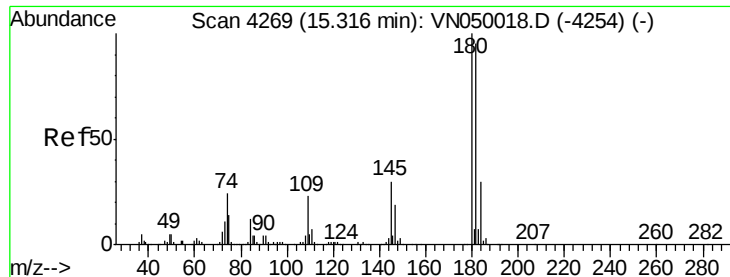
127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN050018.D (-4197) (-)





#96

1,2,3-Trichlorobenzene

Concen: 2.21 ug/l

RT: 15.33 min Scan# 4272

Delta R.T. 0.01 min

Lab File: VN050082.D

Acq: 26 Jul 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

FB-072518

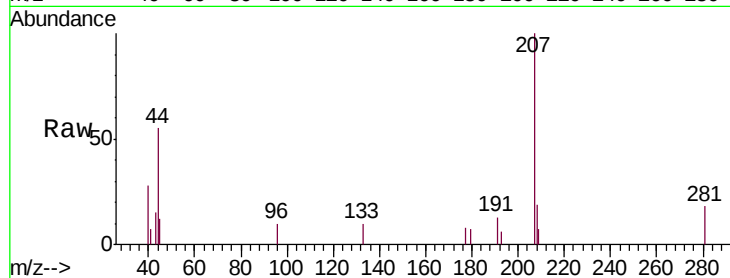
Tot Ion:180 Resp: 31

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.4#

145 0.0 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

