

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050673.D
 Acq On : 15 Aug 2018 23:29
 Operator : MD\SY
 Sample : J4458-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-94

Quant Time: Aug 16 04:25:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	112651	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	540791	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	449994	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	228672	29.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.53%
60) 4-Bromofluorobenzene	12.40	95	149161	21.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	71.93%
63) Toluene-d8	10.09	98	640729	29.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.37%

Target Compounds

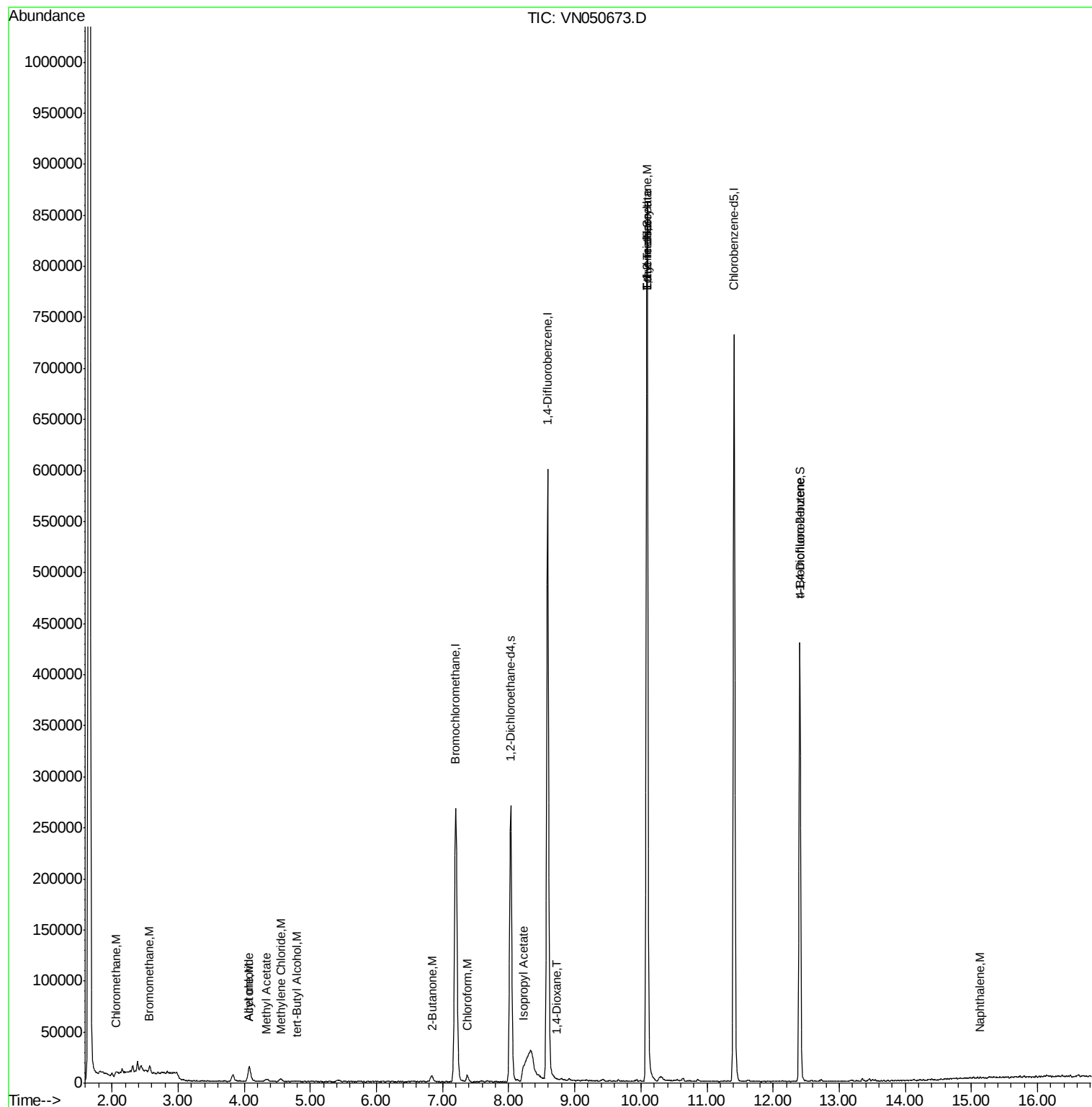
						Ovalue
3) Chloromethane	2.06	50	2610	0.33	ug/l	95
5) Bromomethane	2.57	94	3506	0.67	ug/l	91
12) Methyl Acetate	4.33	43	2295	0.33	ug/l	92
15) Acetone	4.08	58	368	0.60	ug/l	90
17) Allyl chloride	4.08	41	2570	0.27	ug/l	81
18) Methylene Chloride	4.55	84	1798	0.26	ug/l #	92
23) tert-Butyl Alcohol	4.80	59	328	0.64	ug/l #	100
25) Chloroform	7.37	83	6655	0.54	ug/l	87
30) 2-Butanone	6.85	43	903	0.34	ug/l #	65
44) Isopropyl Acetate	8.23	43	9359	0.92	ug/l #	57
45) 1,4-Dioxane	8.73	88	61	0.91	ug/l #	1
50) 1,1,2-Trichloroethane	10.10	97	20006	3.36	ug/l #	1
51) Ethyl methacrylate	10.10	69	2222	0.31	ug/l	94
77) t-1,4-Dichloro-2-butene	12.40	75	70706	36.05	ug/l #	14
91) Naphthalene	15.13	128	585	7.67	ug/l #	69

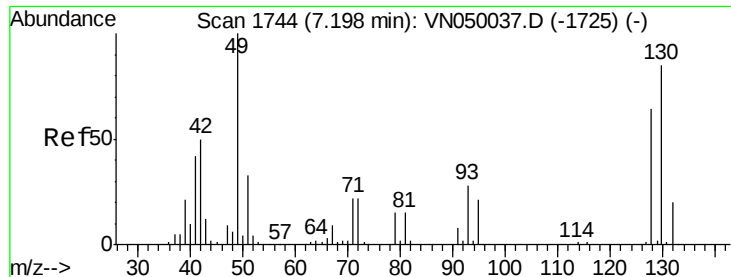
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. -0.00 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

Instrument :

MSVOA_N

ClientSampled :

MH-94

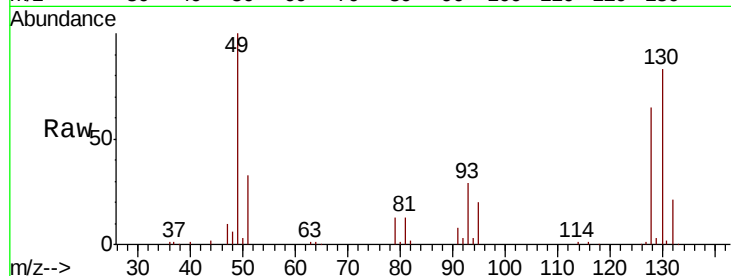
Tot Ion:128 Resp: 112651

Ion Ratio Lower Upper

128 100

49 155.0 0.0 378.3

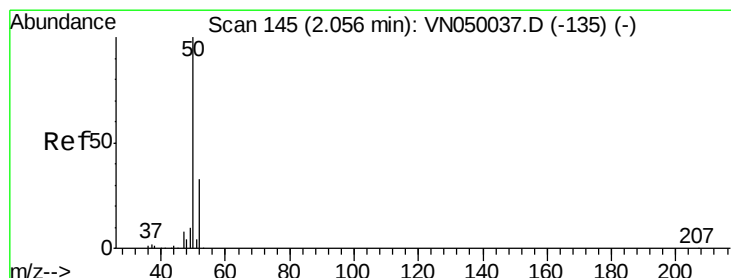
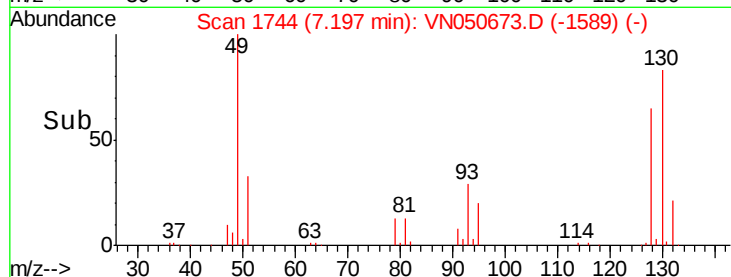
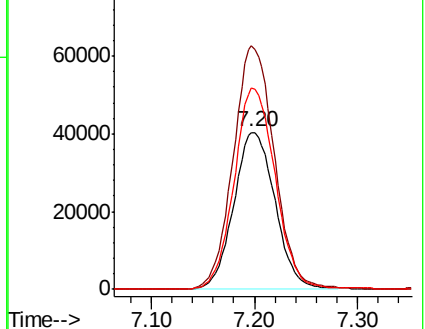
130 127.6 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.33 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050673.D

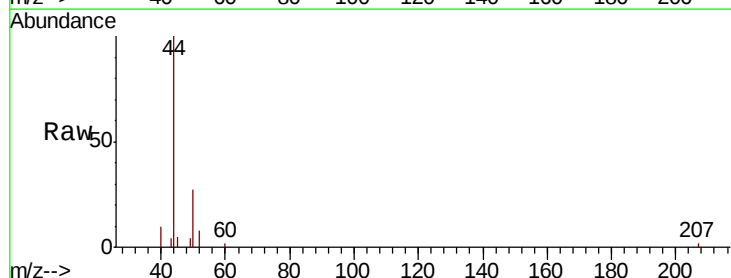
Acq: 15 Aug 2018 23:29

Tgt Ion: 50 Resp: 2610

Ion Ratio Lower Upper

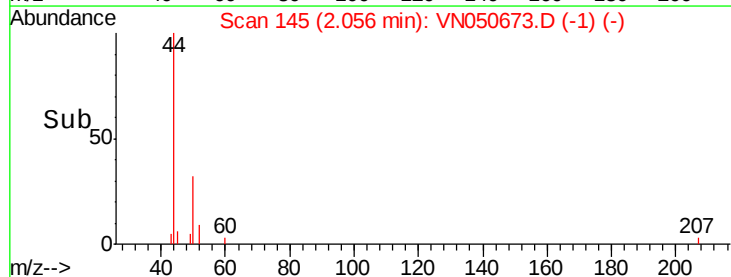
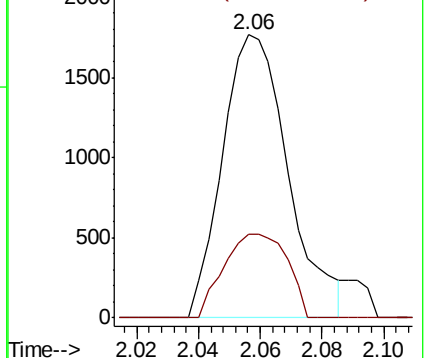
50 100

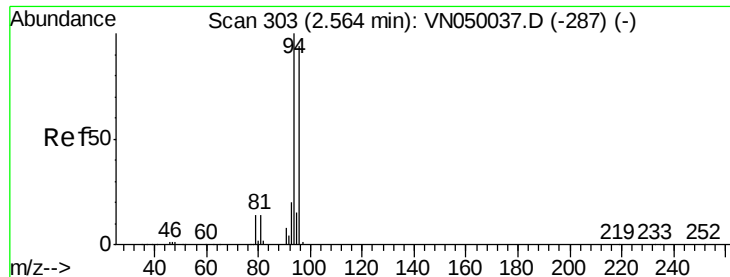
52 29.7 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.67 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

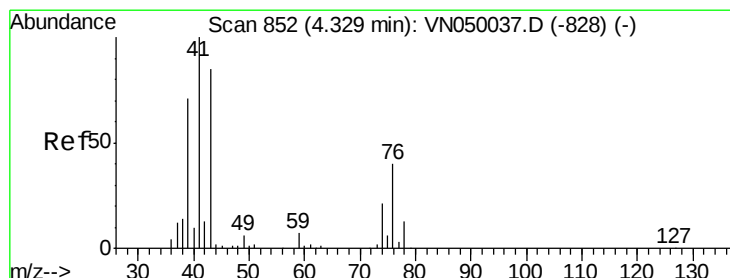
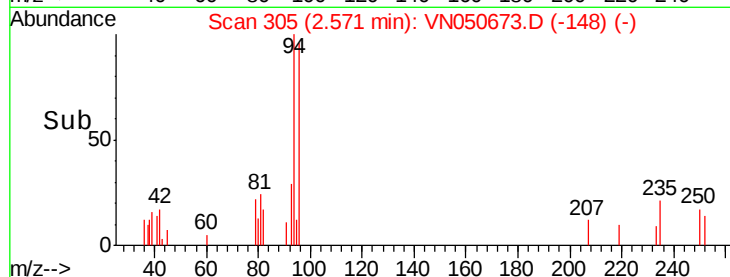
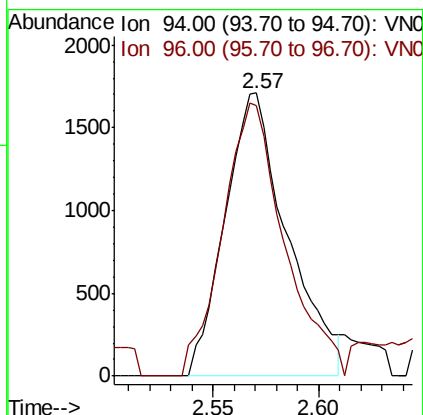
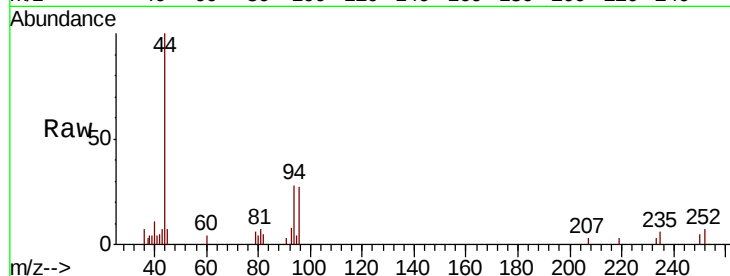
MH-94

Tot Ion: 94 Resp: 3506

Ion Ratio Lower Upper

94 100

96 86.2 75.9 113.9



#12

Methyl Acetate

Concen: 0.33 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050673.D

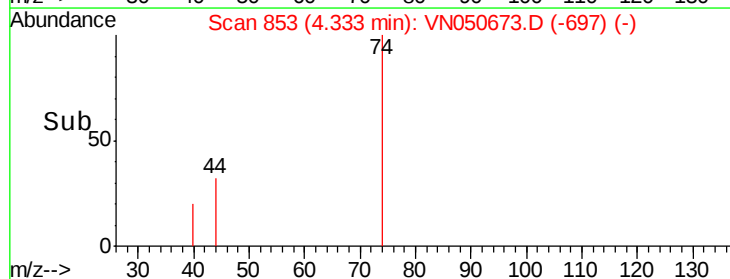
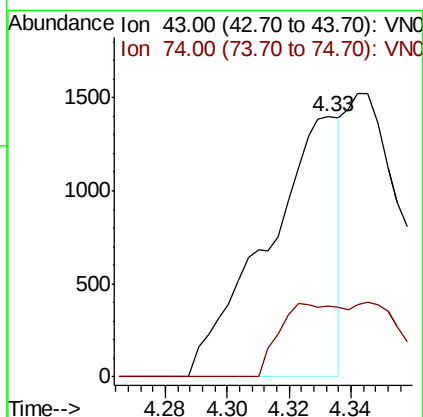
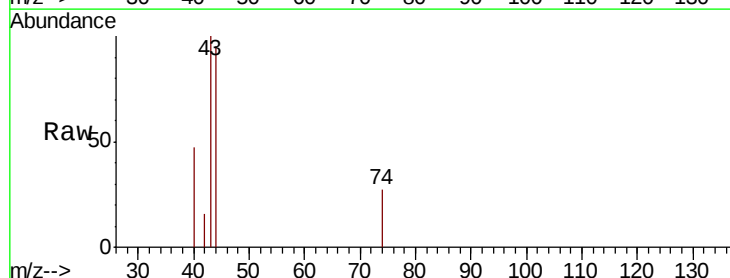
Acq: 15 Aug 2018 23:29

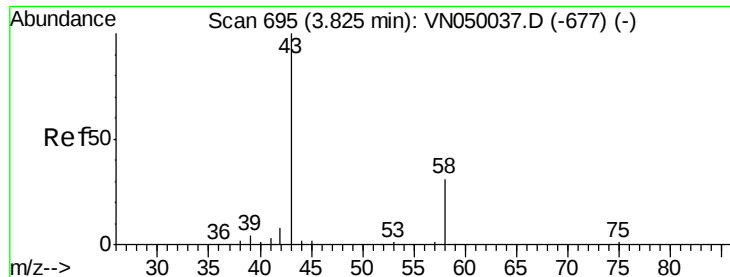
Tgt Ion: 43 Resp: 2295

Ion Ratio Lower Upper

43 100

74 28.1 19.3 28.9





#15

Acetone

Concen: 0.60 ug/l

RT: 4.08 min Scan# 774

Delta R.T. 0.25 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

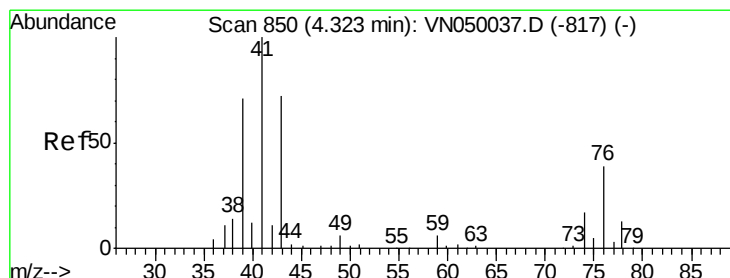
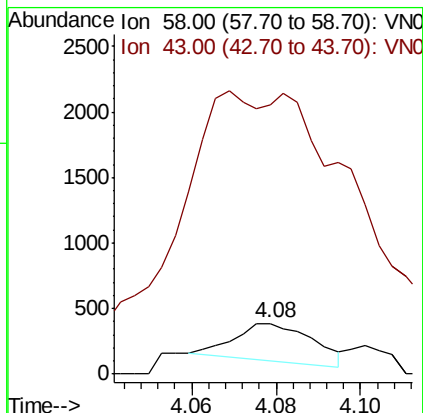
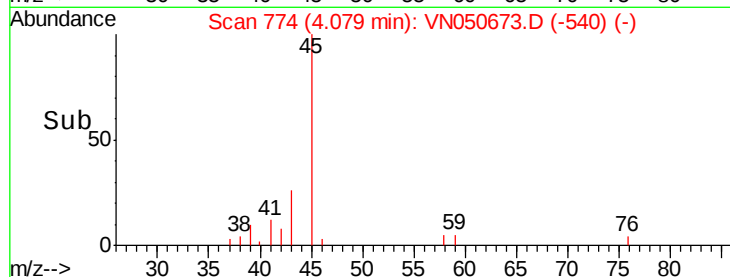
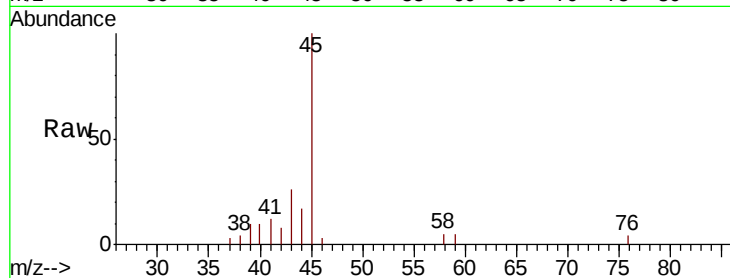
MH-94

Tot Ion: 58 Resp: 368

Ion Ratio Lower Upper

58 100

43 294.3 252.0 378.0



#17

Allyl chloride

Concen: 0.27 ug/l

RT: 4.08 min Scan# 775

Delta R.T. -0.24 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

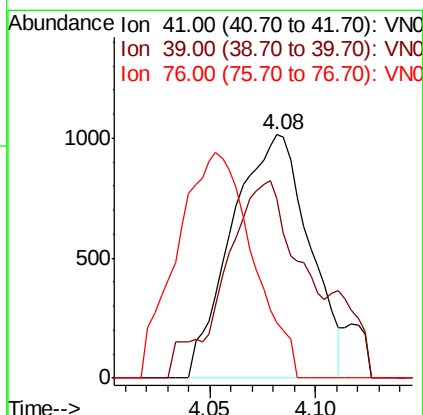
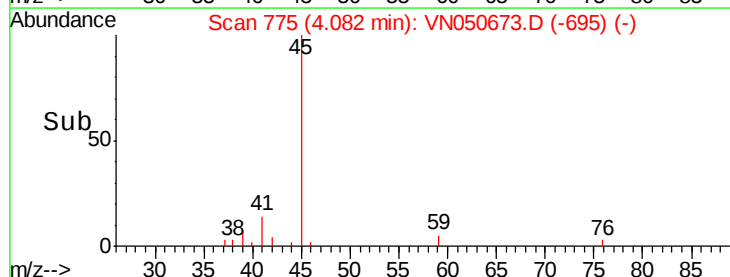
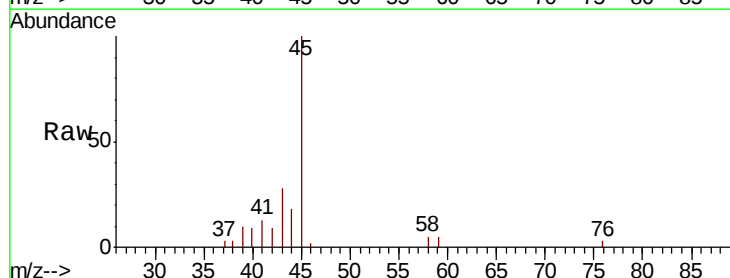
Tgt Ion: 41 Resp: 2570

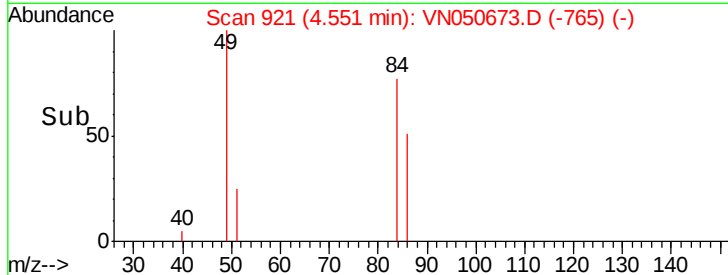
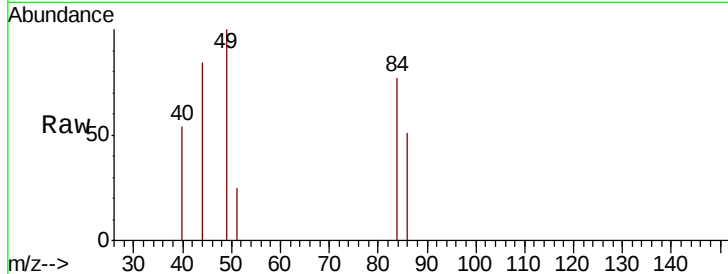
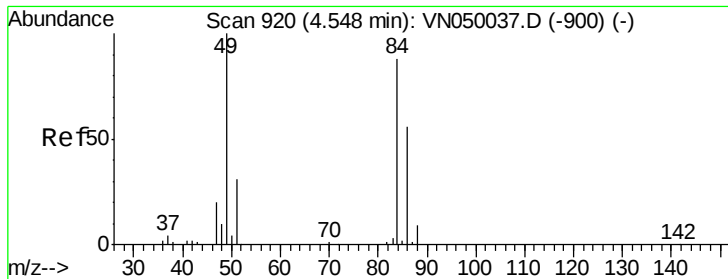
Ion Ratio Lower Upper

41 100

39 58.7 35.4 106.3

76 22.9 19.7 59.1

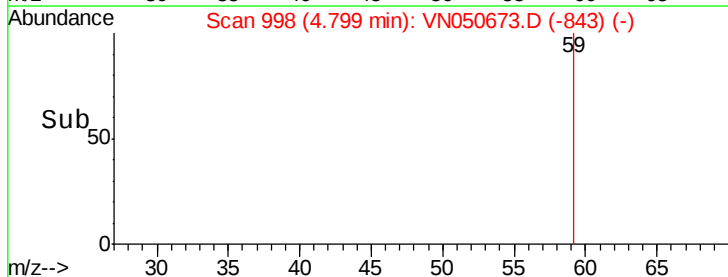
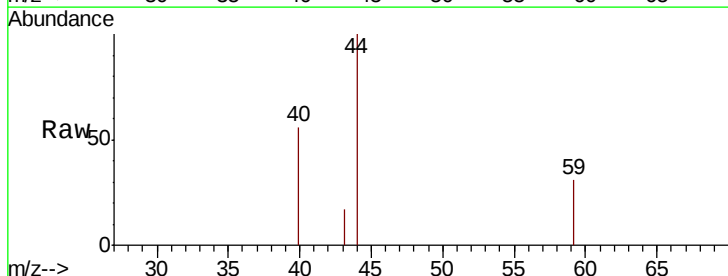
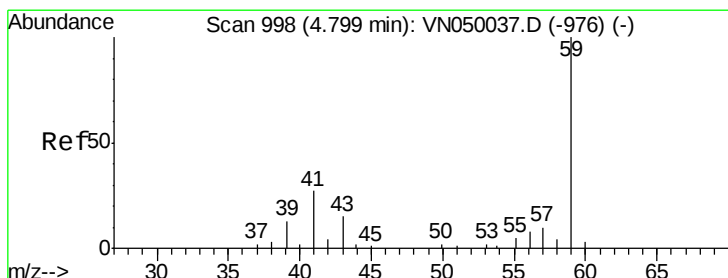
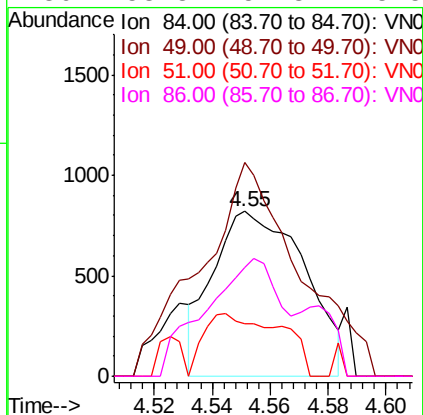




#18
Methvlene Chloride
Concen: 0.26 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050673.D
Acq: 15 Aug 2018 23:29

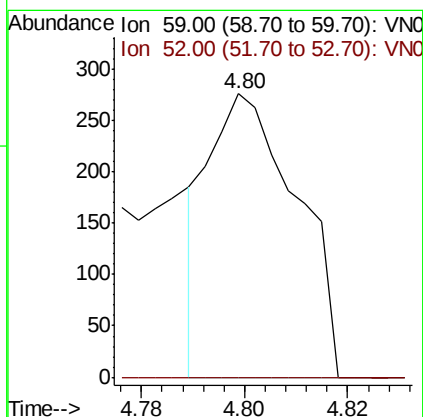
Instrument :
MSVOA_N
ClientSampleId :
MH-94

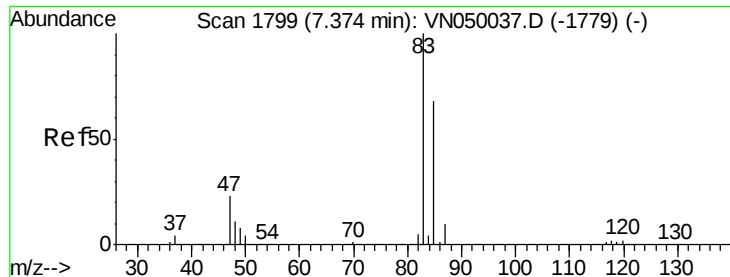
Tot Ion: 84 Resp: 1798
Ion Ratio Lower Upper
84 100
49 121.3 95.1 142.7
51 44.8 28.8 43.2#
86 53.8 52.3 78.5



#23
tert-Butyl Alcohol
Concen: 0.64 ug/l
RT: 4.80 min Scan# 998
Delta R.T. -0.00 min
Lab File: VN050673.D
Acq: 15 Aug 2018 23:29

Tgt Ion: 59 Resp: 328
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#





#25

Chloroform

Concen: 0.54 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. -0.00 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

Instrument :

MSVOA_N

ClientSampled :

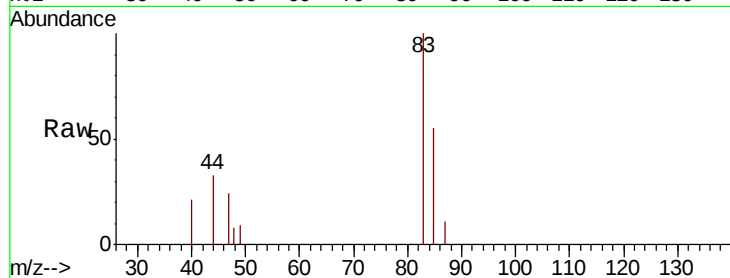
MH-94

Tot Ion: 83 Resp: 6655

Ion Ratio Lower Upper

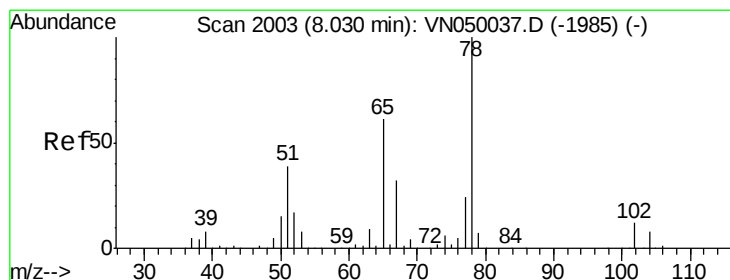
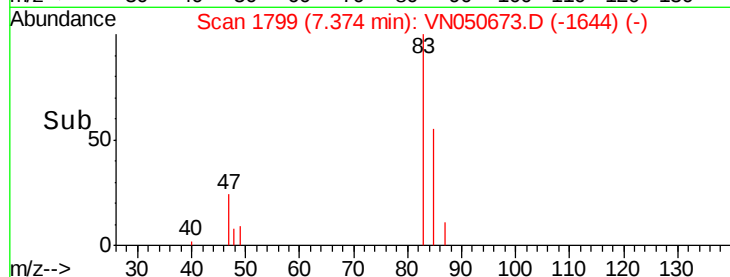
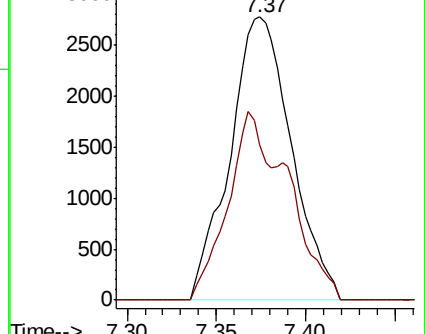
83 100

85 54.7 52.1 78.1



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#27

1,2-Dichloroethane-d4

Concen: 29.86 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050673.D

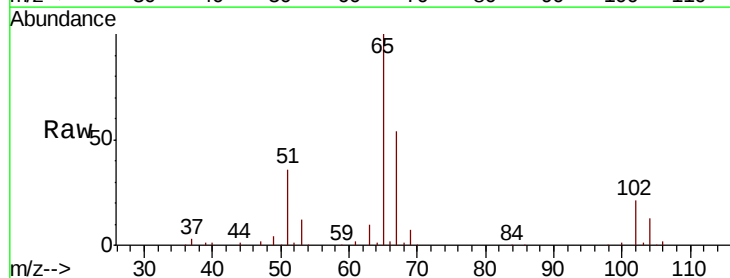
Acq: 15 Aug 2018 23:29

Tgt Ion: 65 Resp: 228672

Ion Ratio Lower Upper

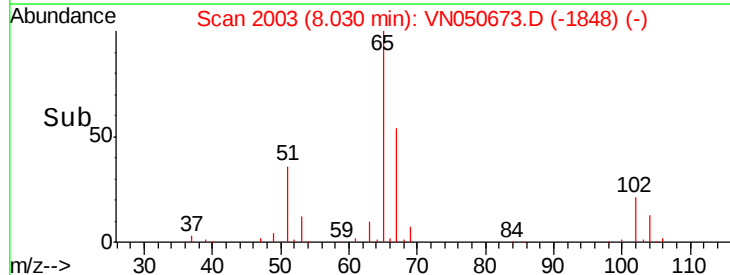
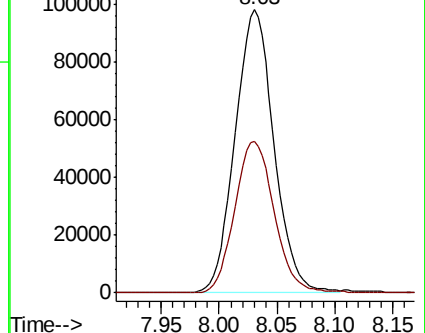
65 100

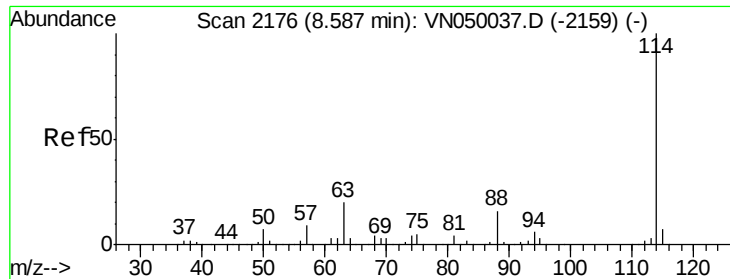
67 54.4 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

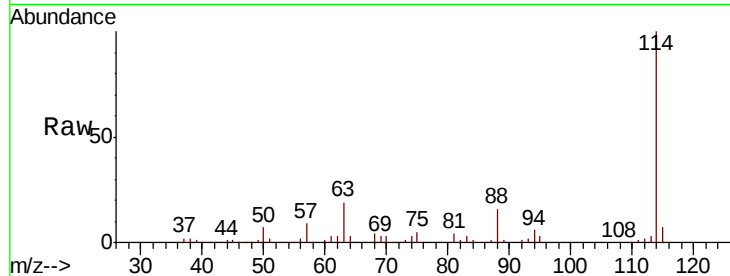




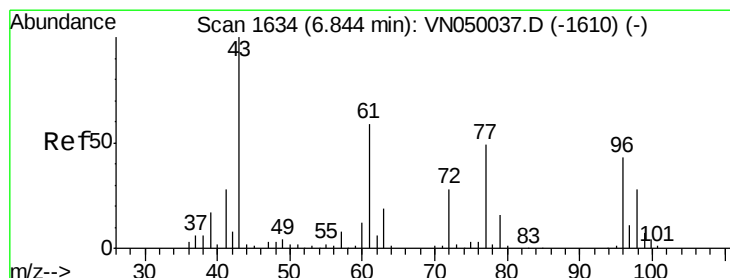
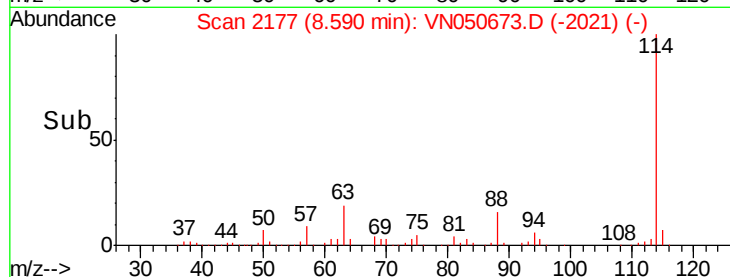
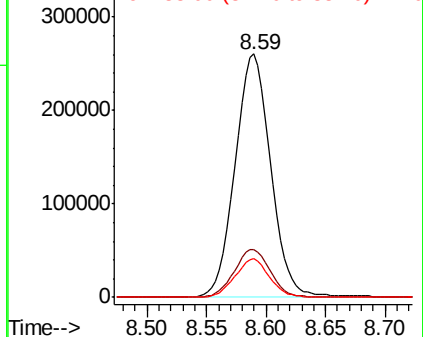
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050673.D
 Acq: 15 Aug 2018 23:29

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-94

Tot Ion:114 Resp: 540791
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.2 24.2
 88 15.4 12.3 18.5

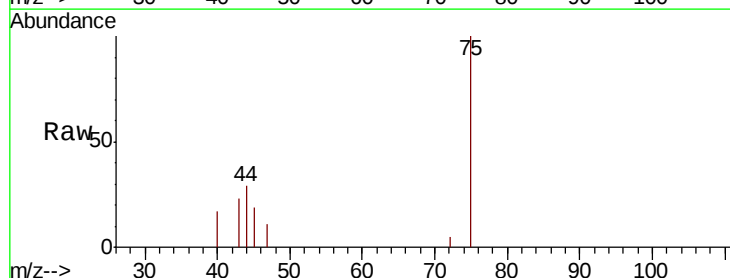


Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)
 Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)
 Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

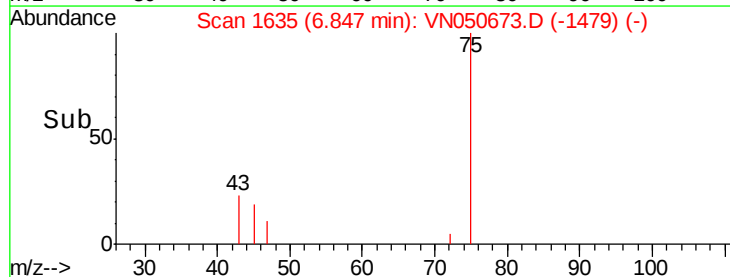
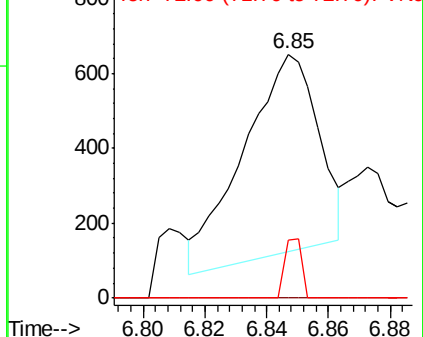


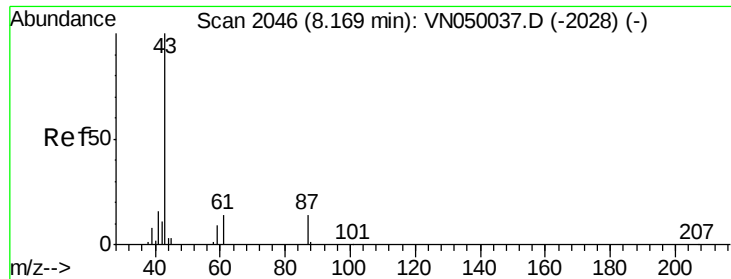
#30
 2-Butanone
 Concen: 0.34 ug/l
 RT: 6.85 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VN050673.D
 Acq: 15 Aug 2018 23:29

Tgt Ion: 43 Resp: 903
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.8 10.2#
 72 6.6 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VN050037.D (-1610) (-)
 Ion 57.00 (56.70 to 57.70): VN050037.D (-1610) (-)
 Ion 72.00 (71.70 to 72.70): VN050037.D (-1610) (-)





#44

Isopropyl Acetate

Concen: 0.92 ug/l

RT: 8.23 min Scan# 2064

Delta R.T. 0.06 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

Instrument :

MSVOA_N

ClientSampled :

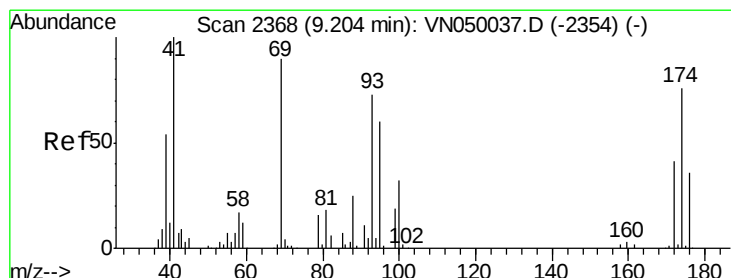
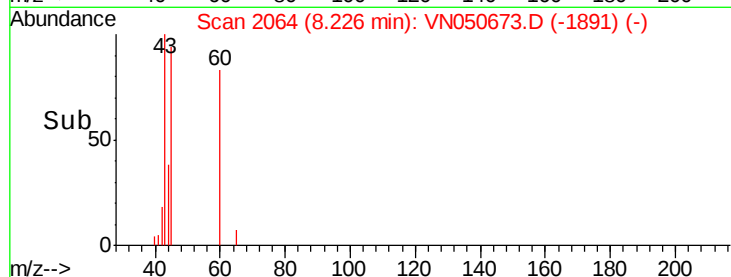
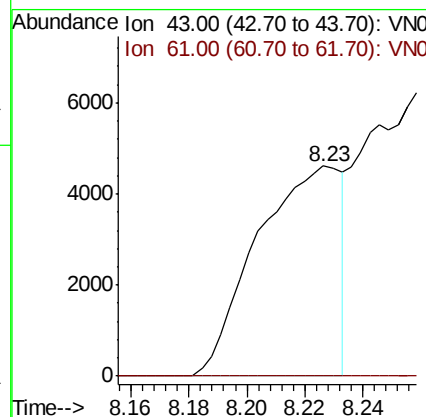
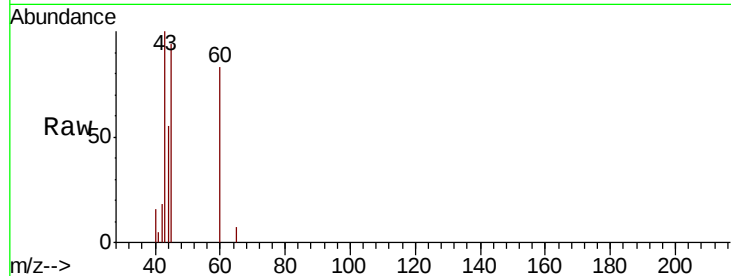
MH-94

Tot Ion: 43 Resp: 9359

Ion Ratio Lower Upper

43 100

61 0.7 16.4 24.6#



#45

1,4-Dioxane

Concen: 0.91 ug/l

RT: 8.73 min Scan# 2220

Delta R.T. -0.48 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

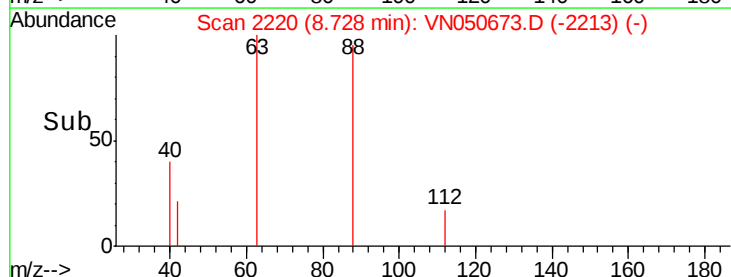
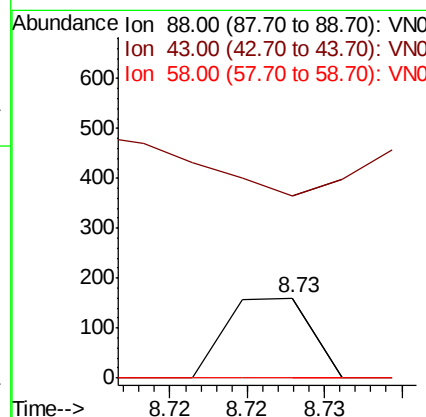
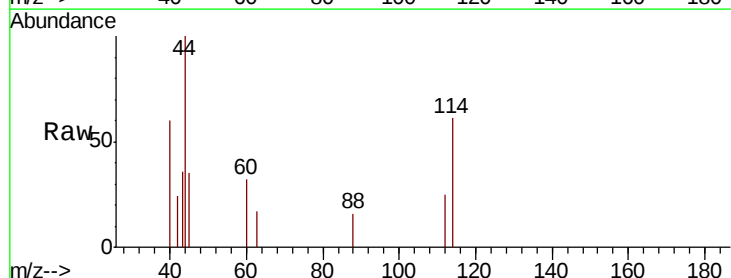
Tgt Ion: 88 Resp: 61

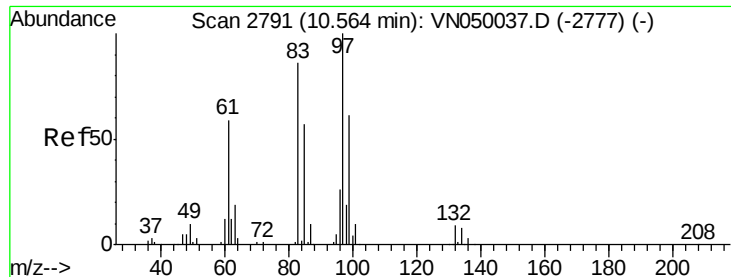
Ion Ratio Lower Upper

88 100

43 408.2 26.9 40.3#

58 0.0 53.6 80.4#

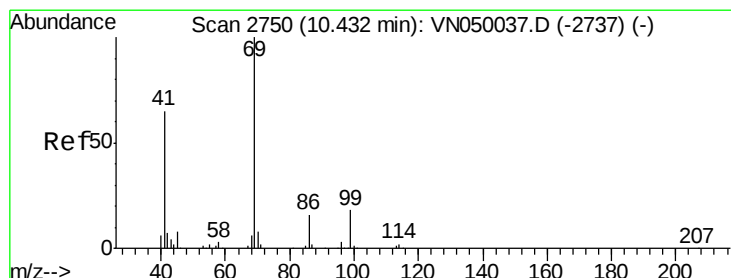
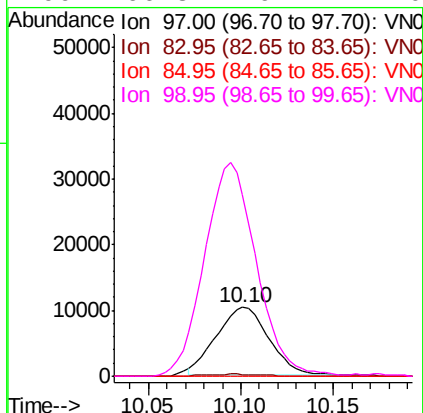
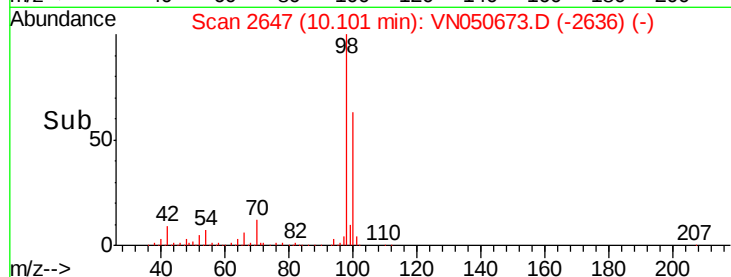
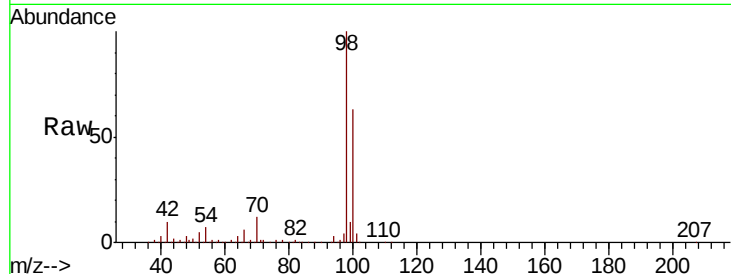




#50
 1,1,2-Trichloroethane
 Concen: 3.36 ug/l
 RT: 10.10 min Scan# 2647
 Delta R.T. -0.46 min
 Lab File: VN050673.D
 Acq: 15 Aug 2018 23:29

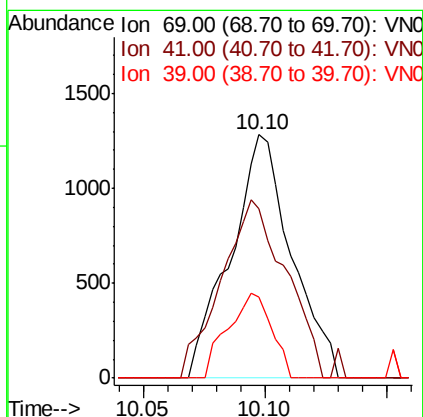
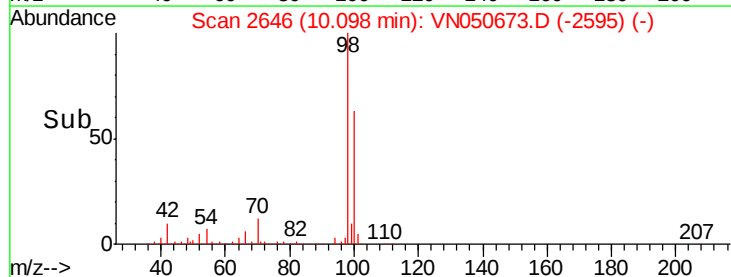
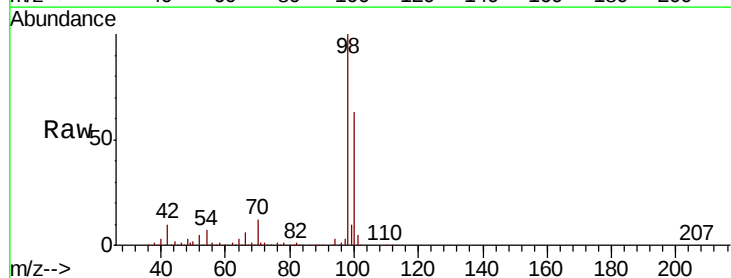
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-94

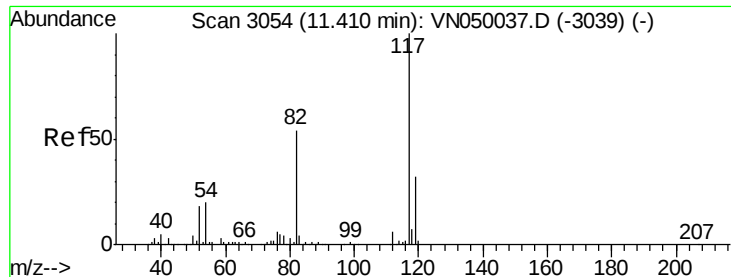
Tot Ion	97	Resp	20006
Ion Ratio	Lower	Upper	
97	100		
83	2.7	68.1	102.1#
85	0.0	45.4	68.2#
99	266.3	49.4	74.0#



#51
 Ethyl methacrylate
 Concen: 0.31 ug/l
 RT: 10.10 min Scan# 2646
 Delta R.T. -0.33 min
 Lab File: VN050673.D
 Acq: 15 Aug 2018 23:29

Tgt Ion	69	Resp	2222
Ion Ratio	Lower	Upper	
69	100		
41	57.4	31.9	95.9
39	33.4	16.7	50.1

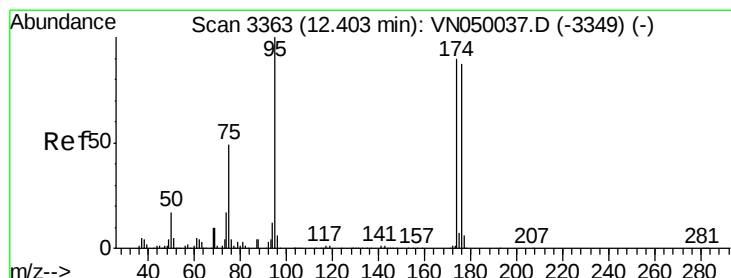
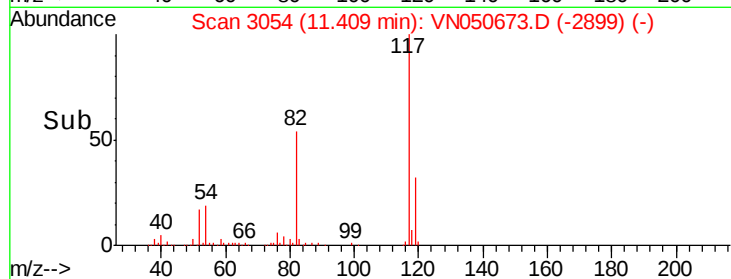
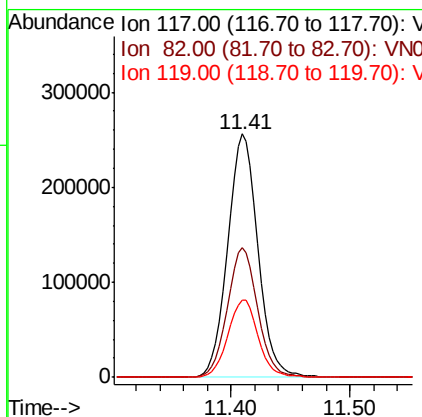
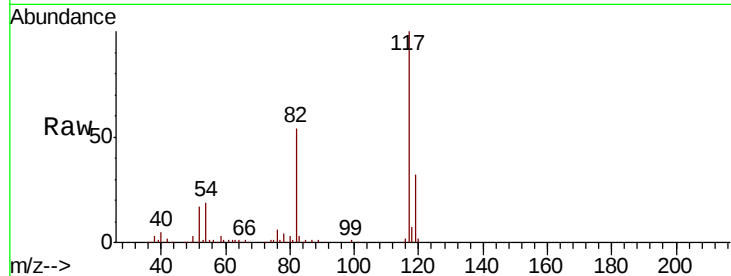




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050673.D
Acq: 15 Aug 2018 23:29

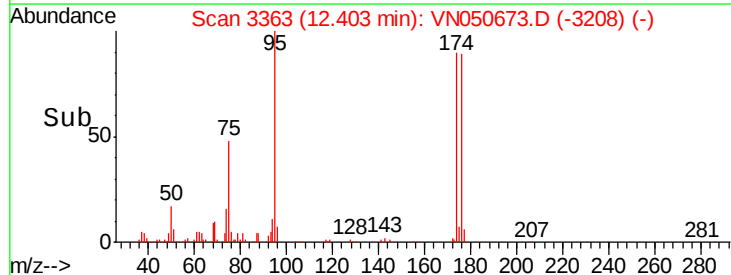
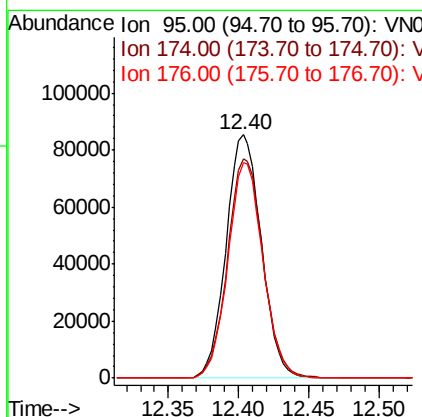
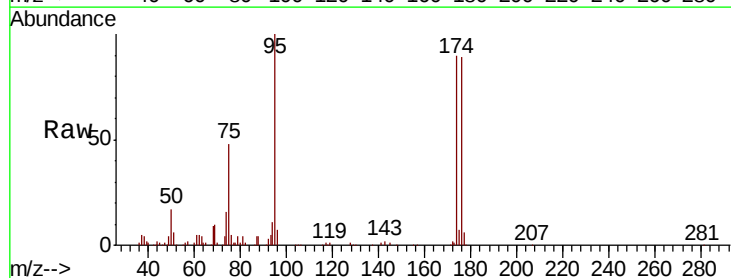
Instrument :
MSVOA_N
ClientSampleId :
MH-94

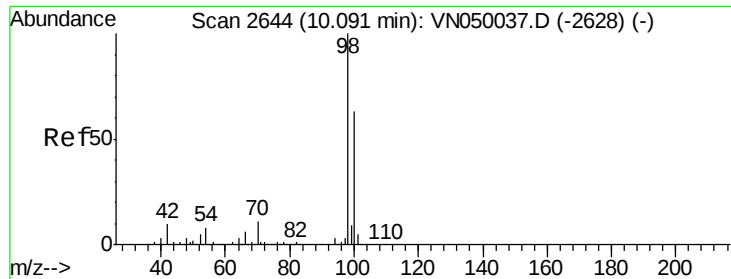
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.4	63.6
119	31.9	25.4	38.0



#60
4-Bromofluorobenzene
Concen: 21.58 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050673.D
Acq: 15 Aug 2018 23:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.3	72.3	108.5
176	87.9	70.0	105.0





#63

Toluene-d8

Concen: 29.81 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

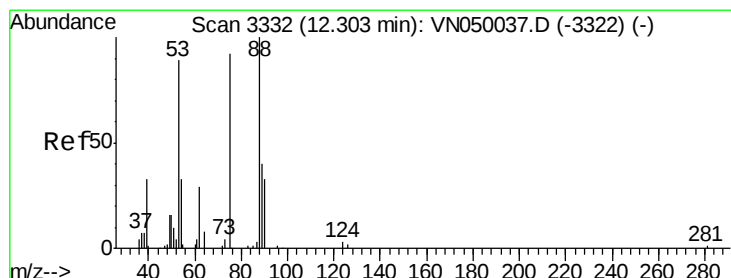
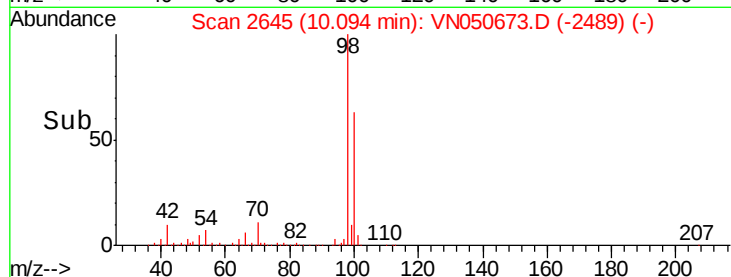
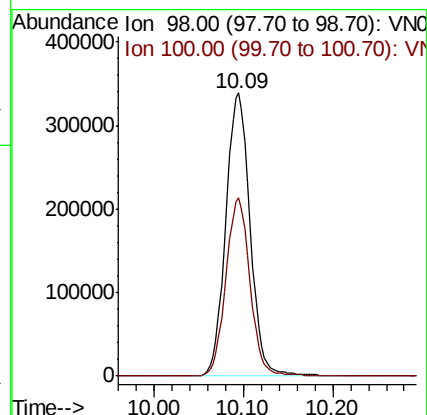
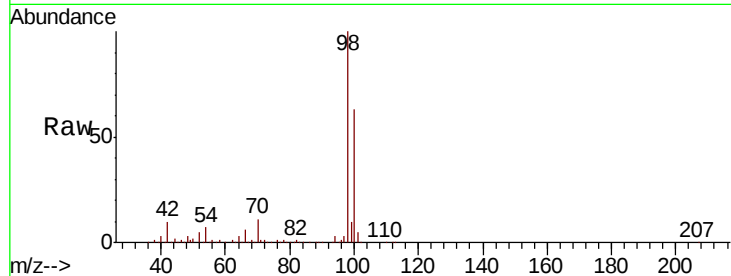
MH-94

Tot Ion: 98 Resp: 640729

Ion Ratio Lower Upper

98 100

100 62.5 51.2 76.8



#77

t-1,4-Dichloro-2-butene

Concen: 36.05 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

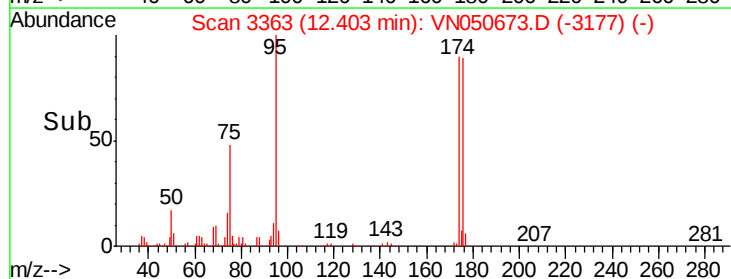
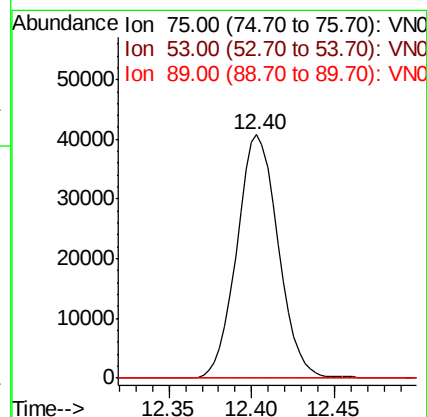
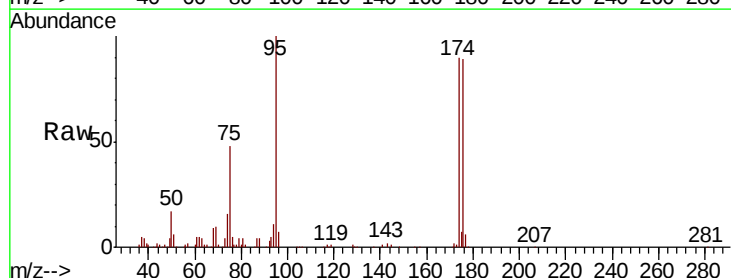
Tgt Ion: 75 Resp: 70706

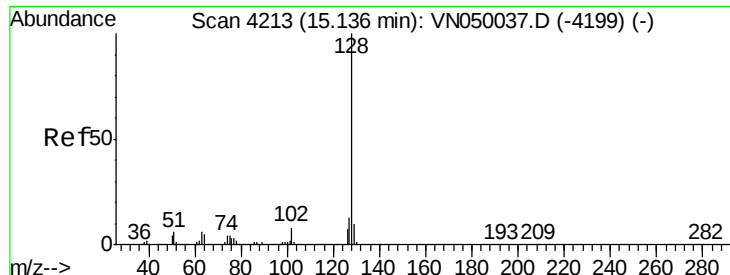
Ion Ratio Lower Upper

75 100

53 0.0 44.6 134.0#

89 0.0 20.7 62.1#





#91

Naphthalene

Concen: 7.67 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050673.D

Acq: 15 Aug 2018 23:29

Instrument :

MSVOA_N

ClientSampleId :

MH-94

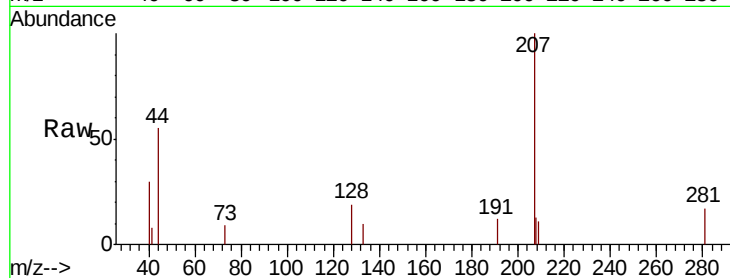
Tot Ion:128 Resp: 585

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 9.0 13.4#



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

