

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103118\
 Data File : VN052084.D
 Acq On : 31 Oct 2018 19:52
 Operator : MD\SY
 Sample : J5202-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:44:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	288261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	531623	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	498172	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	188895	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	248989	53.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.66%	
35) Dibromofluoromethane	7.60	113	201389	60.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.10%	
50) Toluene-d8	10.09	98	805368	60.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.18%	
62) 4-Bromofluorobenzene	12.40	95	269536	55.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.48%	

Target Compounds

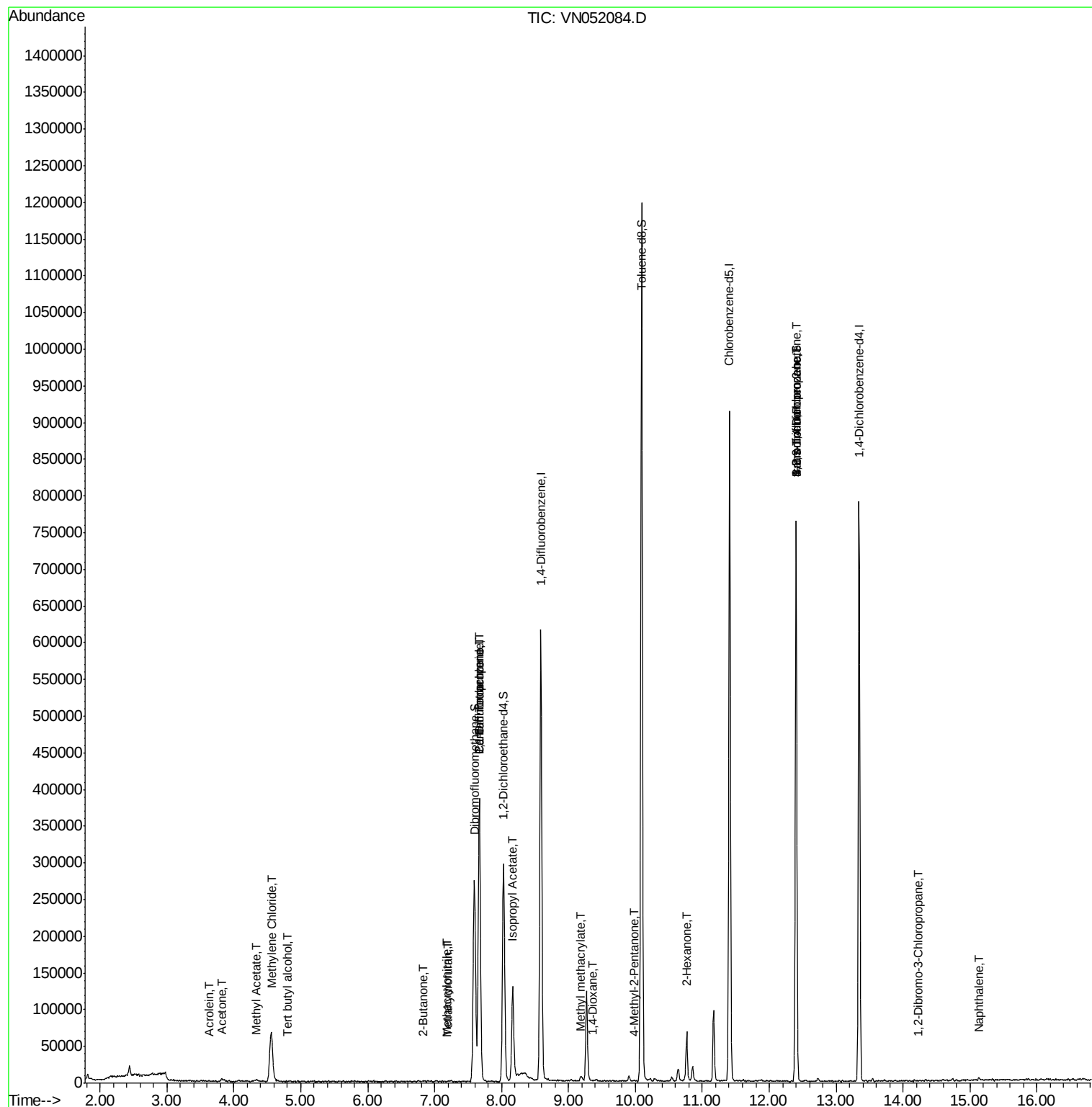
						Qvalue
11) Tert butyl alcohol	4.81	59	62	0.268	ug/l #	76
13) Acrolein	3.62	56	111	24.468	ug/l #	12
16) Acetone	3.82	43	2109	2.136	ug/l	96
18) Methyl Acetate	4.32	43	2318	0.737	ug/l #	70
20) Methylene Chloride	4.56	84	50319	13.374	ug/l	91
25) 2-Butanone	6.82	43	339	0.219	ug/l #	50
29) Tetrahydrofuran	7.20	42	207	0.201	ug/l #	59
31) Cyclohexane	7.67	56	7568	Below Cal	#	16
36) 1,1-Dichloropropene	7.67	75	26663	4.932	ug/l #	47
38) Carbon Tetrachloride	7.67	117	30802	6.609	ug/l #	17
41) Methacrylonitrile	7.18	41	264	0.283	ug/l #	35
43) Isopropyl Acetate	8.17	43	155612	24.181	ug/l	100
48) Methyl methacrylate	9.18	41	3913	1.199	ug/l #	19
49) 1,4-Dioxane	9.36	88	63	27.306	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	1836	0.525	ug/l #	69
59) 2-Hexanone	10.77	43	9811	3.936	ug/l #	61
71) Bromoform	12.41	173	3459	3.740	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	141265	40.854	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	141265	135.601	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.23	75	61	1.026	ug/l #	11
95) Naphthalene	15.13	128	3437	0.635	ug/l	96

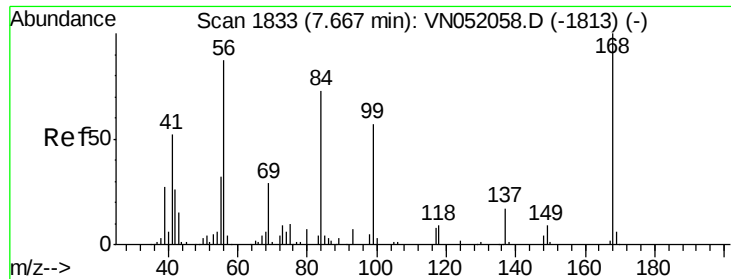
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 31 02:45:22 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

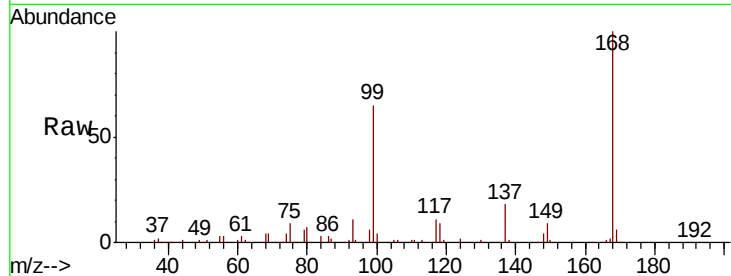
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 288261

Ion Ratio Lower Upper

168 100

99 65.1 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

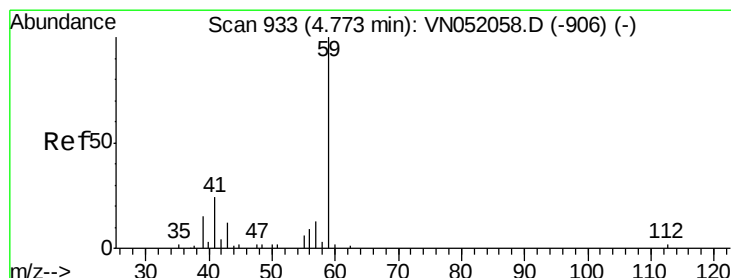
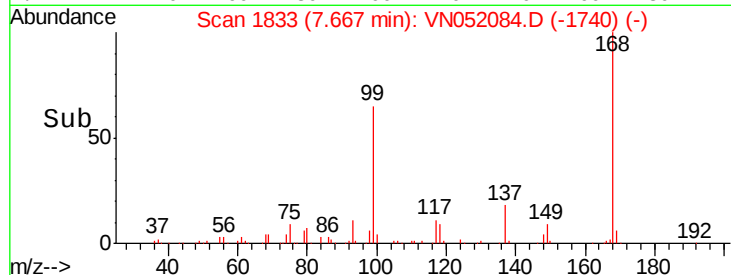
7.67

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.268 ug/l

RT: 4.81 min Scan# 943

Delta R.T. 0.03 min

Lab File: VN052084.D

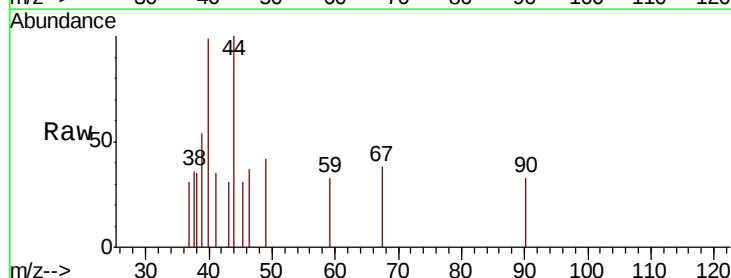
Acq: 31 Oct 2018 19:52

Tgt Ion: 59 Resp: 62

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.81

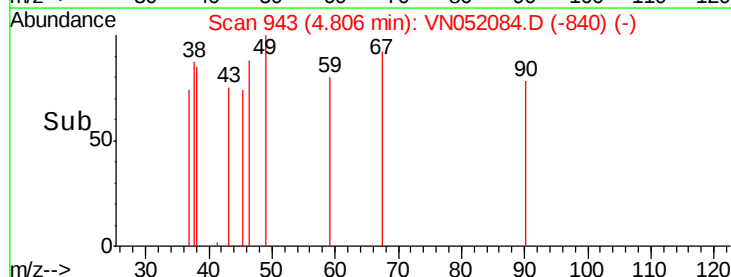
150

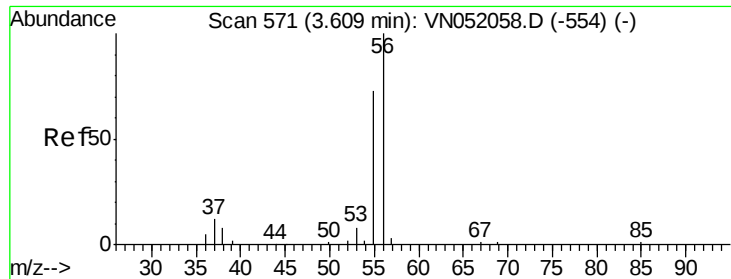
100

50

0

Time--> 4.80 4.81 4.82





#13

Acrolein

Concen: 24.468 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

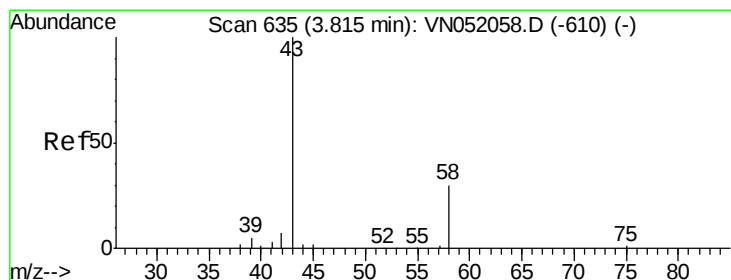
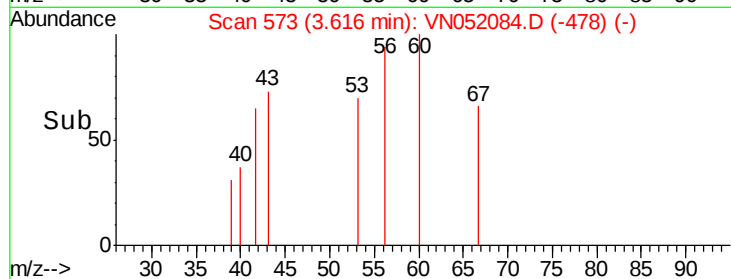
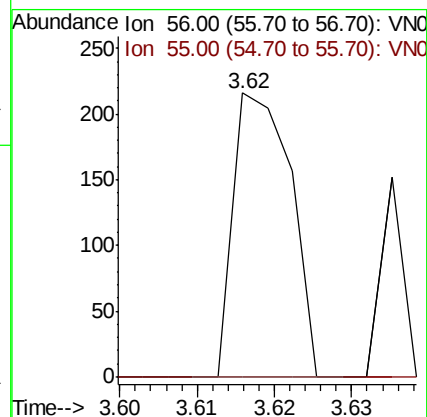
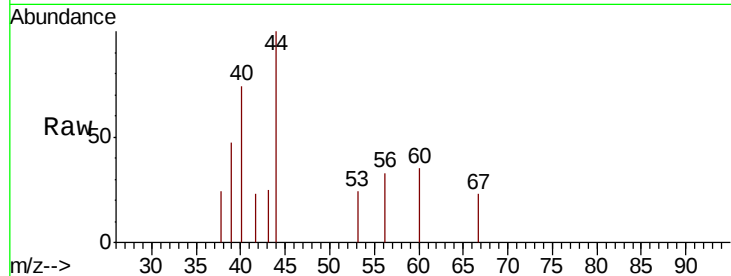
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 111

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



#16

Acetone

Concen: 2.136 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052084.D

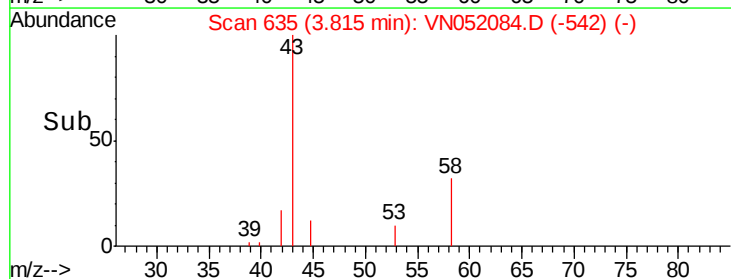
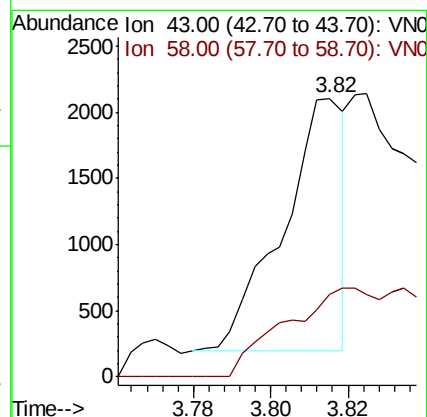
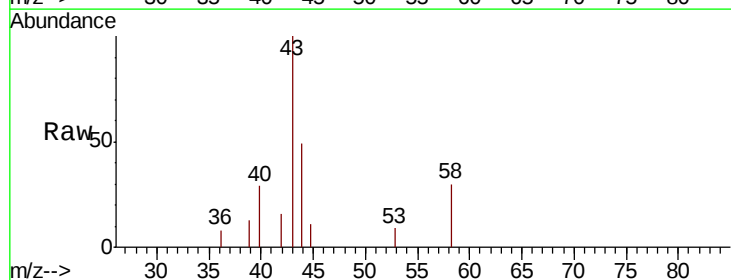
Acq: 31 Oct 2018 19:52

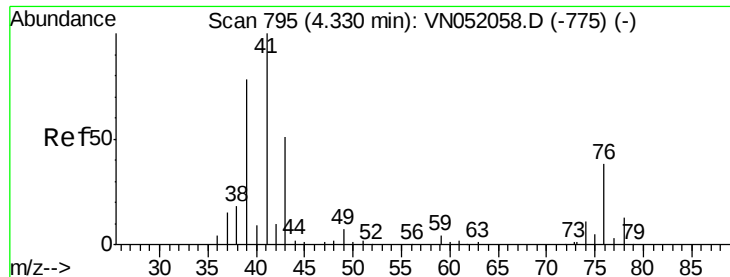
Tgt Ion: 43 Resp: 2109

Ion Ratio Lower Upper

43 100

58 32.6 24.2 36.2

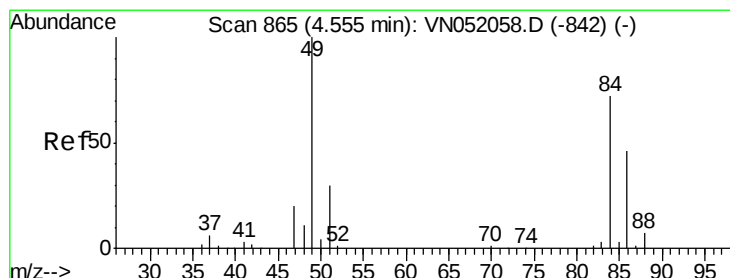
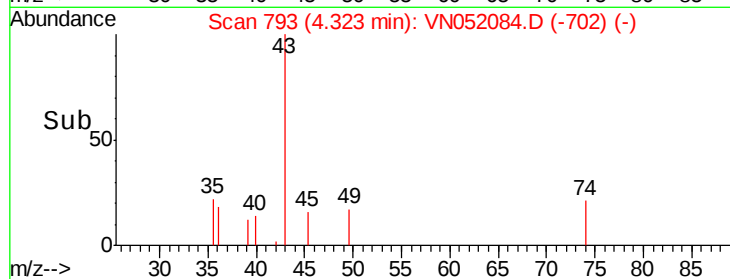
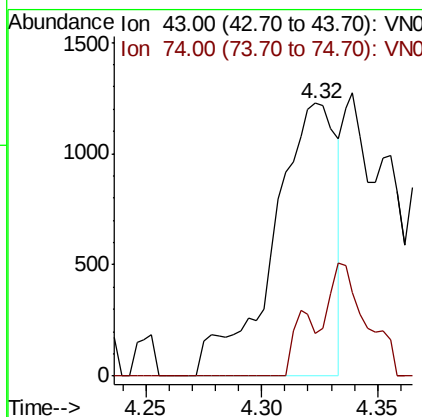
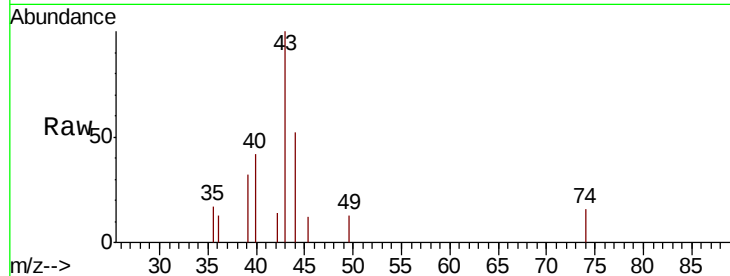




#18
Methvl Acetate
Concen: 0.737 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

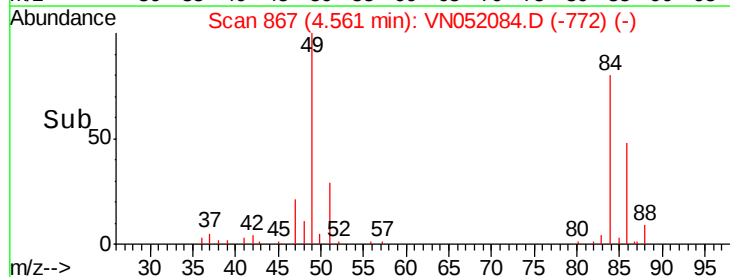
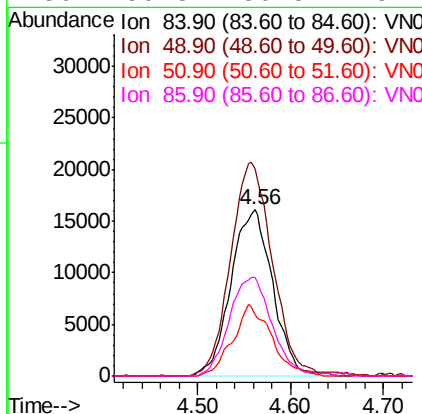
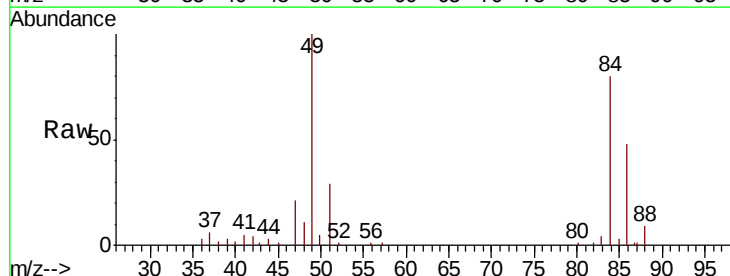
Instrument :
MSVOA_N
ClientSampled :

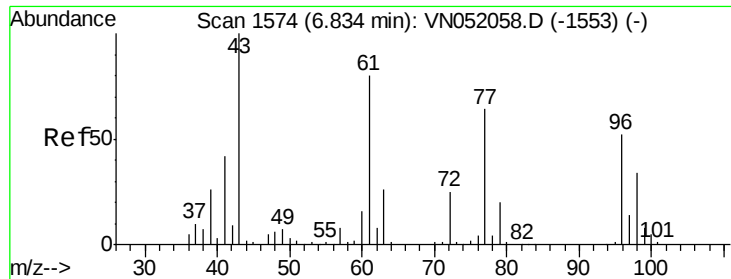
Tot Ion: 43 Resp: 2318
Ion Ratio Lower Upper
43 100
74 8.1 17.9 26.9#



#20
Methylene Chloride
Concen: 13.374 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Tgt Ion: 84 Resp: 50319
Ion Ratio Lower Upper
84 100
49 124.7 110.6 165.8
51 36.7 33.7 50.5
86 59.3 50.5 75.7

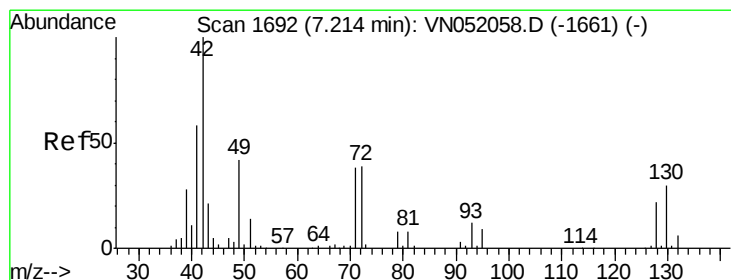
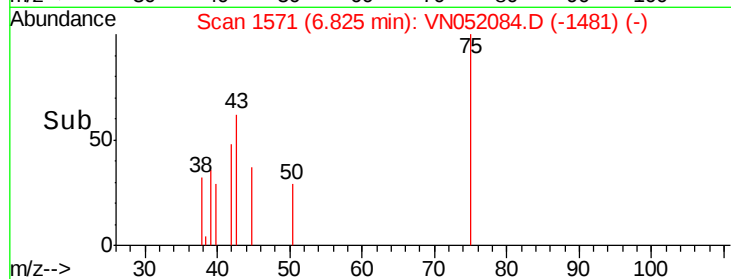
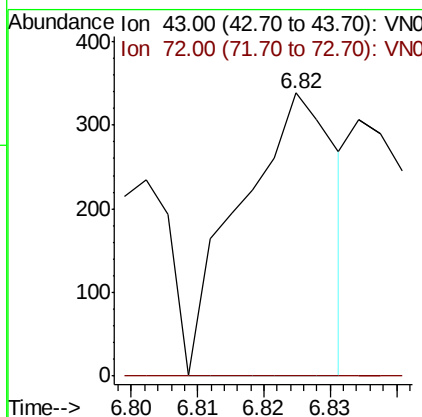
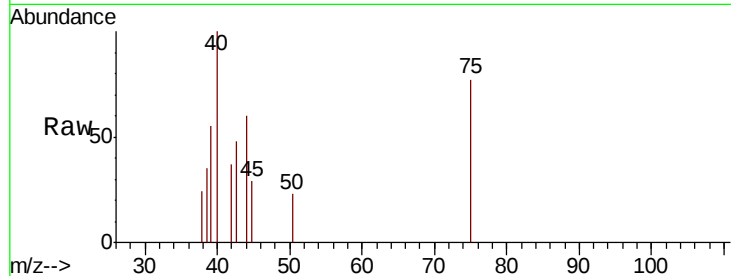




#25
2-Butanone
Concen: 0.219 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

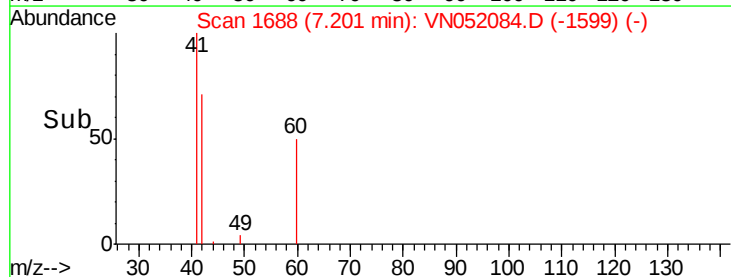
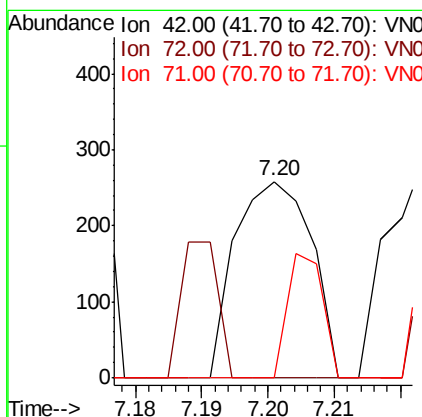
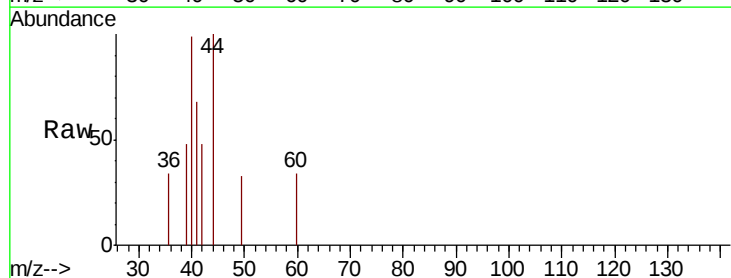
Instrument :
MSVOA_N
ClientSampleId :

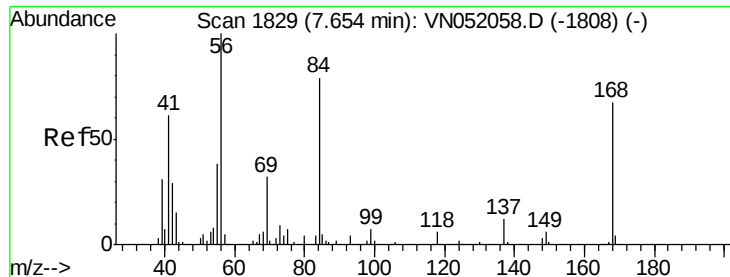
Tot Ion: 43 Resp: 339
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.201 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Tgt Ion: 42 Resp: 207
Ion Ratio Lower Upper
42 100
72 0.0 32.5 48.7#
71 29.0 30.6 46.0#

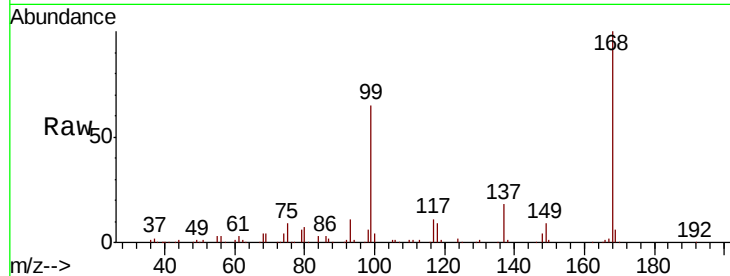




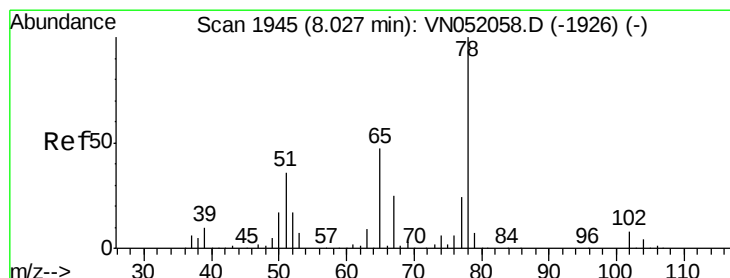
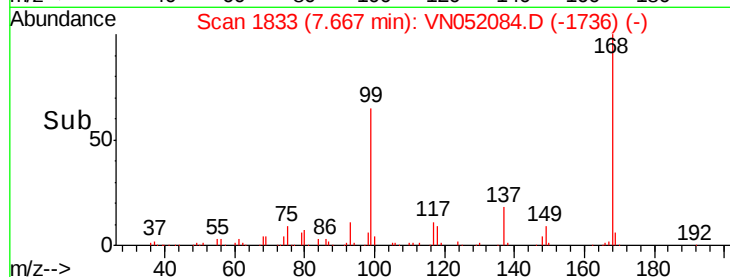
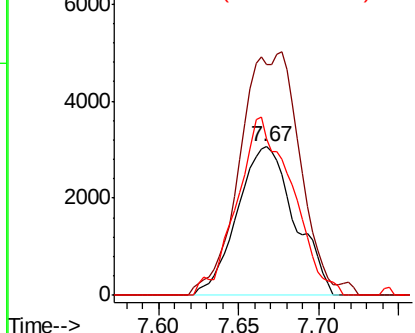
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7568
Ion Ratio Lower Upper
56 100
69 155.0 25.8 38.6#
84 105.0 63.5 95.3#

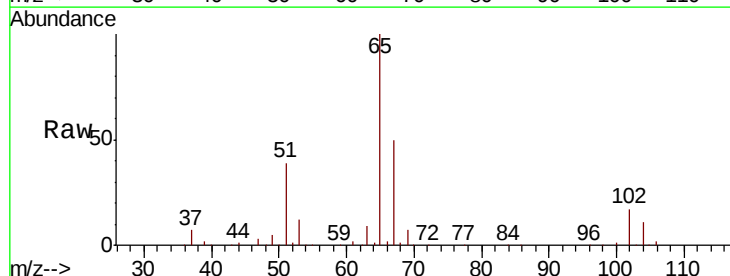


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

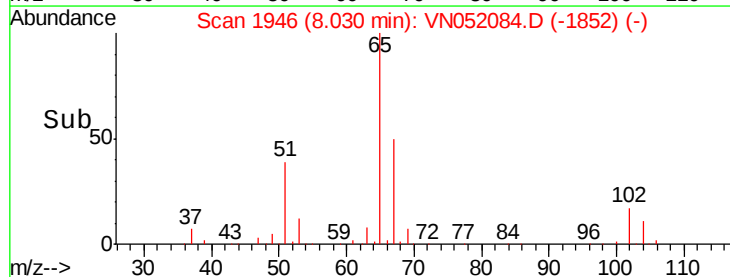
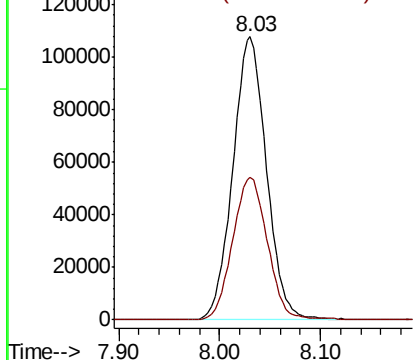


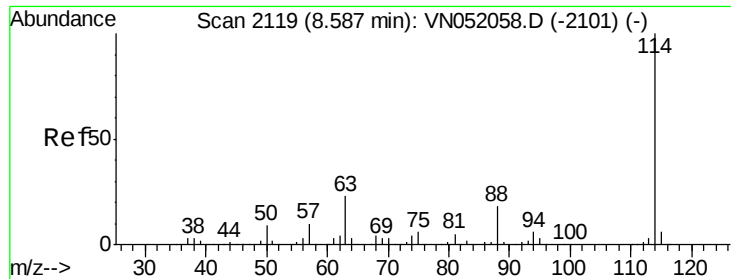
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Tgt Ion: 65 Resp: 248989
Ion Ratio Lower Upper
65 100
67 52.0 0.0 105.2



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

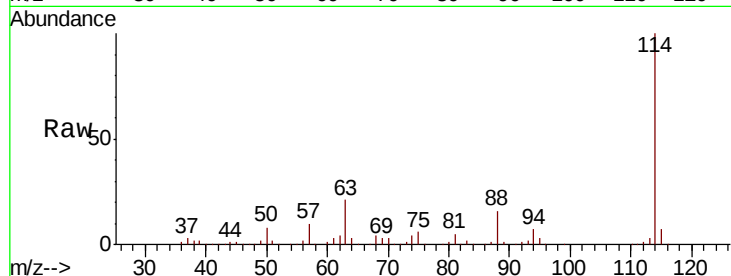




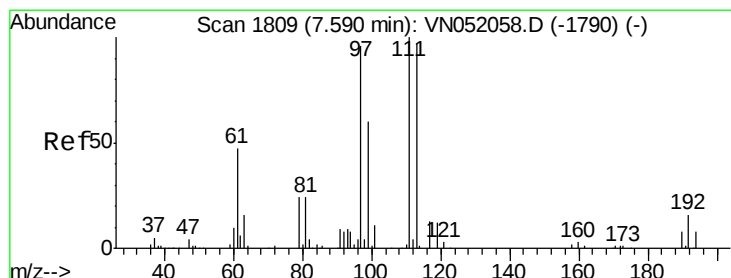
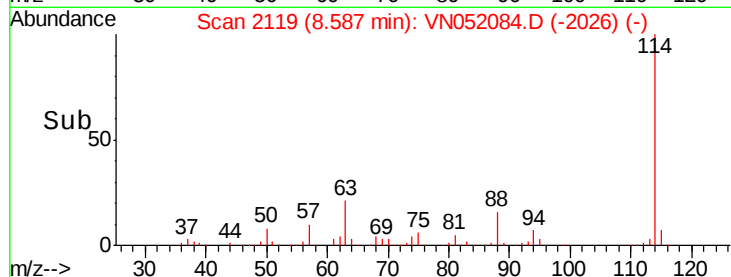
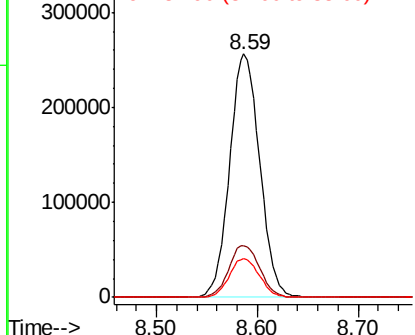
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052084.D
 Acq: 31 Oct 2018 19:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 531623
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 46.0
 88 15.7 0.0 35.4

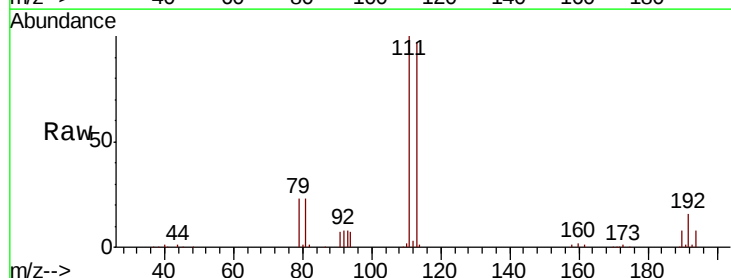


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

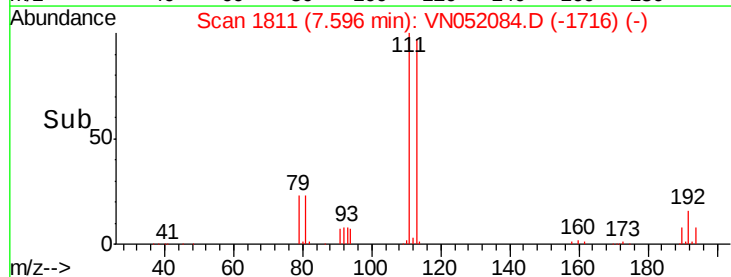
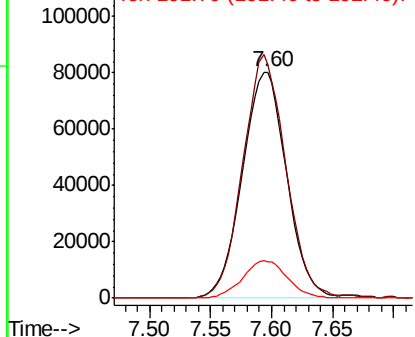


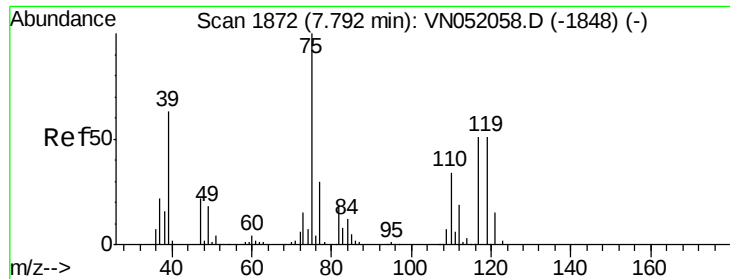
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.01 min
 Lab File: VN052084.D
 Acq: 31 Oct 2018 19:52

Tgt Ion:113 Resp: 201389
 Ion Ratio Lower Upper
 113 100
 111 104.2 83.1 124.7
 192 16.7 12.7 19.1



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

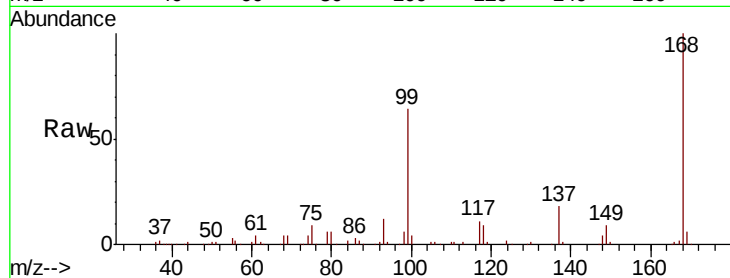




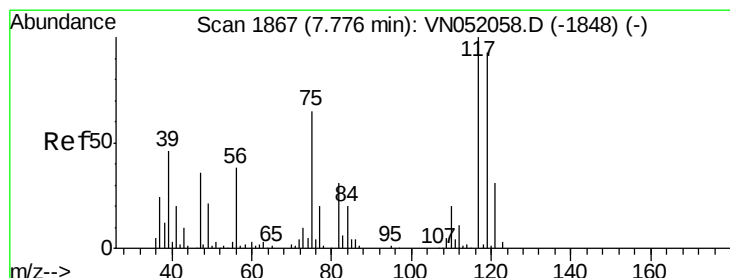
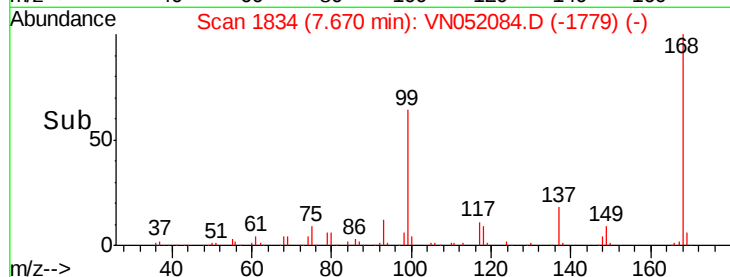
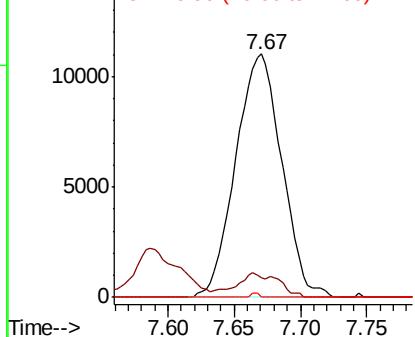
#36
 1,1-Dichloropropene
 Concen: 4.932 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052084.D
 Acq: 31 Oct 2018 19:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	26663
Ion Ratio	Lower	Upper	
75	100		
110	3.5	16.0	48.0#
77	0.3	24.5	36.7#

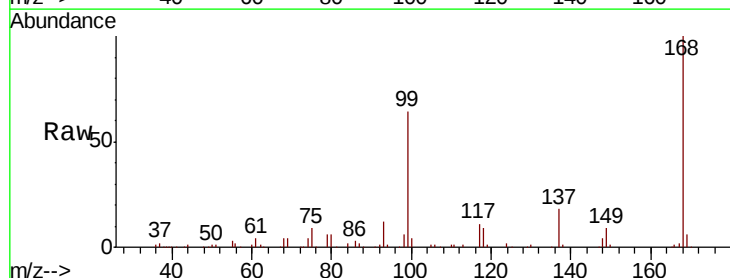


Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN052058.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN052058.D (-1848) (-)

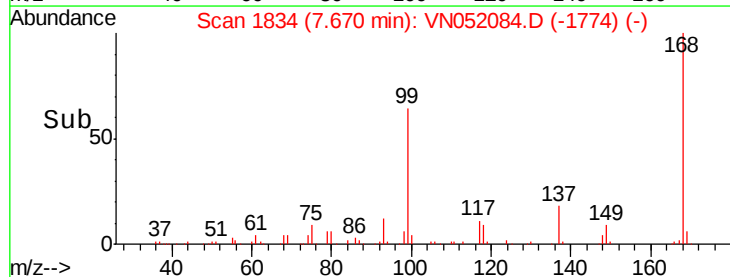
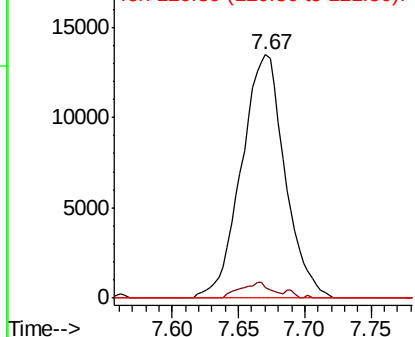


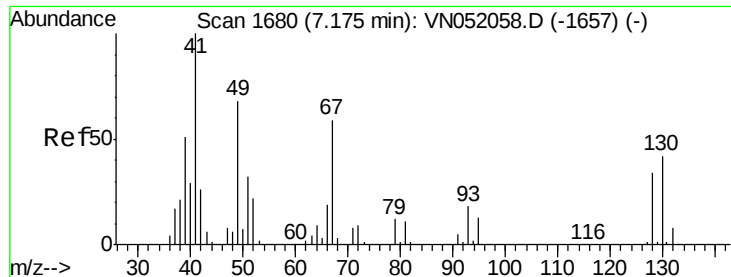
#38
 Carbon Tetrachloride
 Concen: 6.609 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN052084.D
 Acq: 31 Oct 2018 19:52

Tgt Ion	117	Resp	30802
Ion Ratio	Lower	Upper	
117	100		
119	4.6	74.8	112.2#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN052058.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN052058.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN052058.D (-1848) (-)

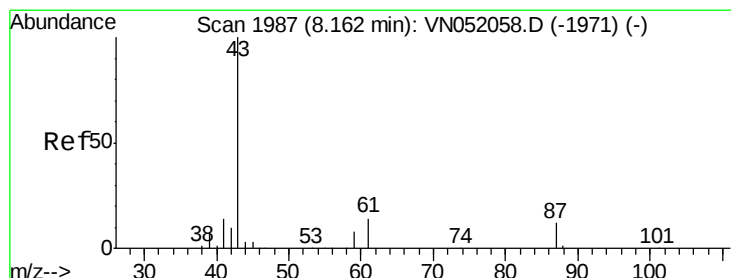
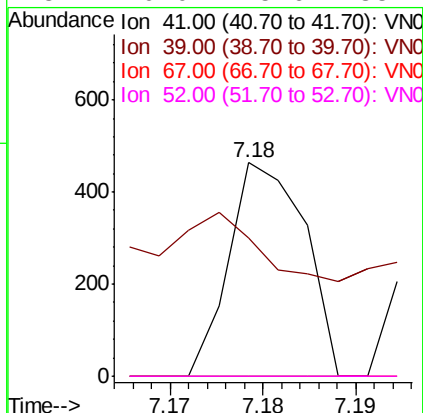
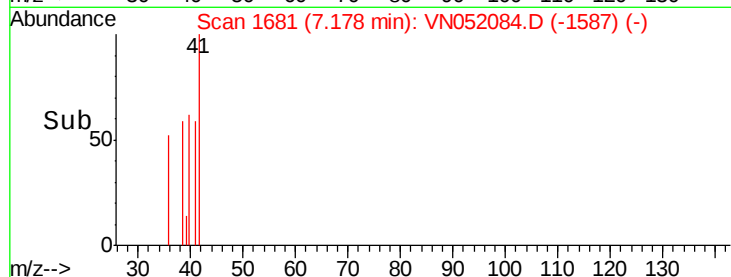
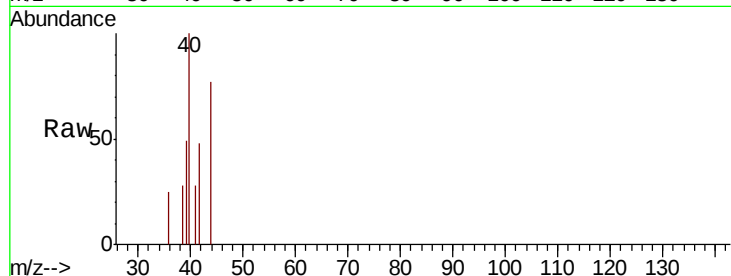




#41
Methacrylonitrile
Concen: 0.283 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

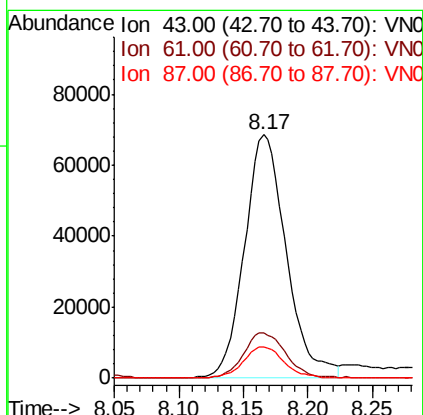
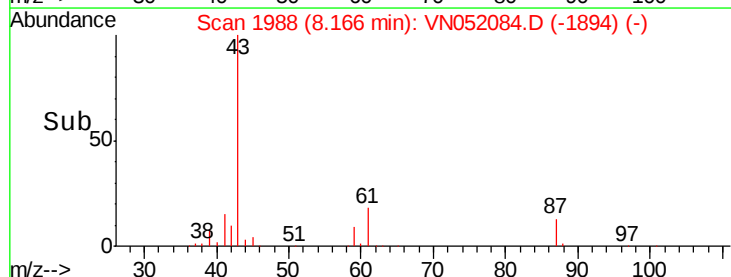
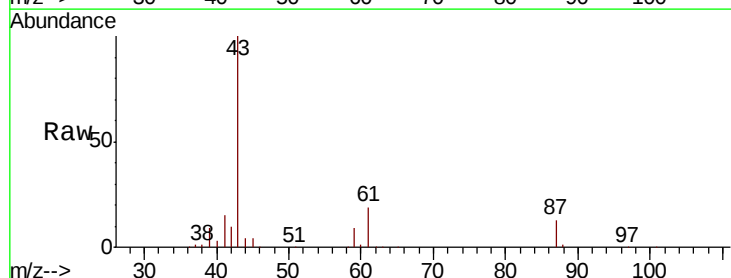
Instrument :
MSVOA_N
ClientSampled :

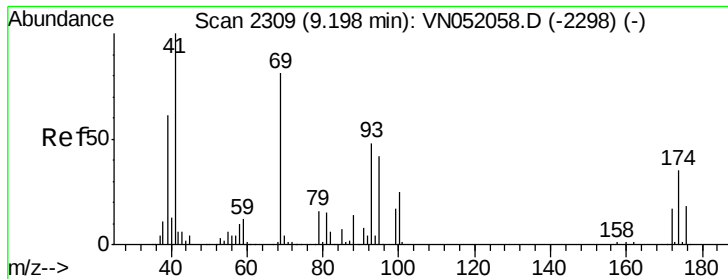
Tot Ion: 41 Resp: 264
Ion Ratio Lower Upper
41 100
39 28.4 33.2 49.8#
67 0.0 63.5 95.3#
52 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 24.181 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Tgt Ion: 43 Resp: 155612
Ion Ratio Lower Upper
43 100
61 19.0 15.4 23.0
87 12.4 9.8 14.8

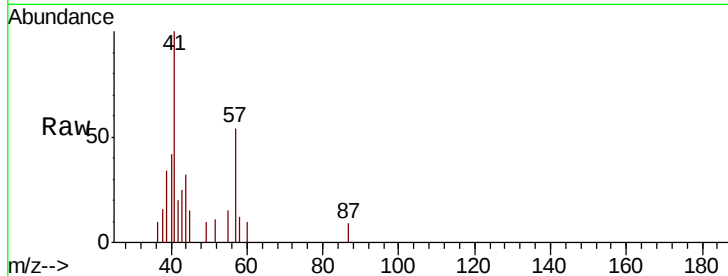




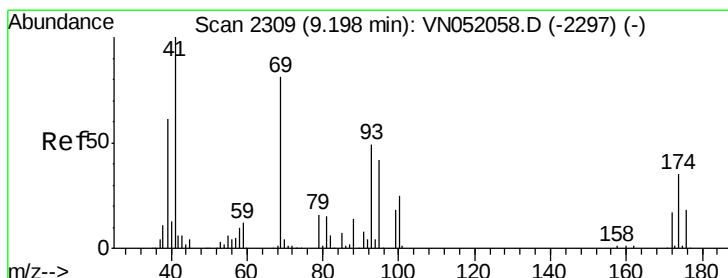
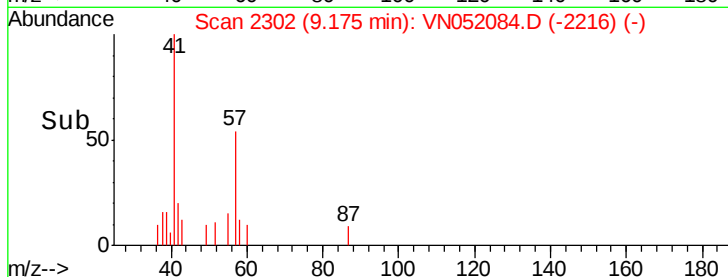
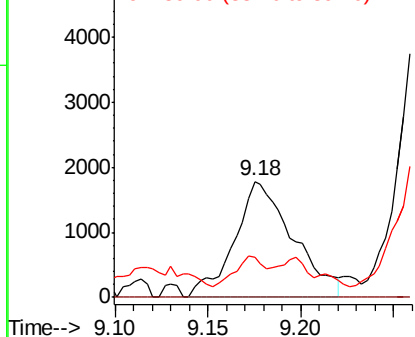
#48
Methvl methacrylate
Concen: 1.199 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3913
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 11.9 50.5 75.7#

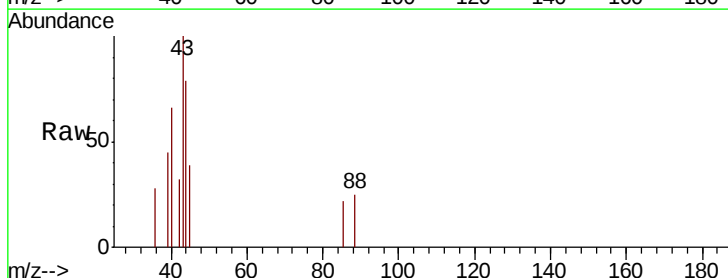


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

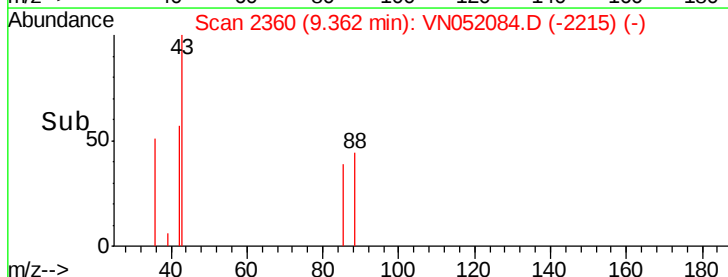
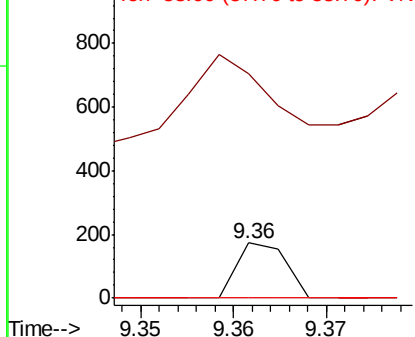


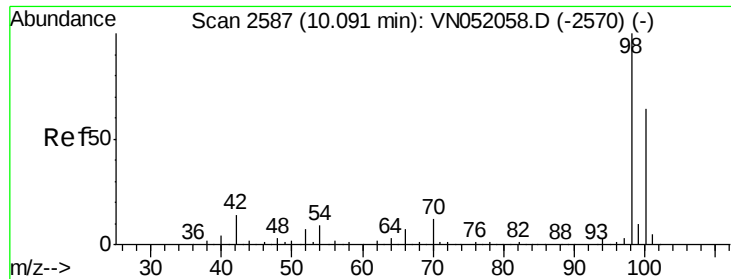
#49
1,4-Dioxane
Concen: 27.306 ug/l
RT: 9.36 min Scan# 2360
Delta R.T. 0.16 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 0.0 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 27.306 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

Instrument :

MSVOA_N

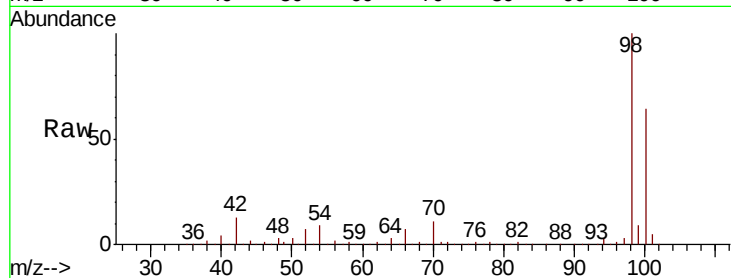
ClientSampled :

Tot Ion: 98 Resp: 805368

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

300000

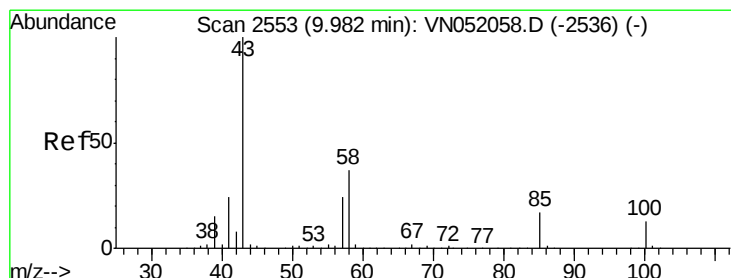
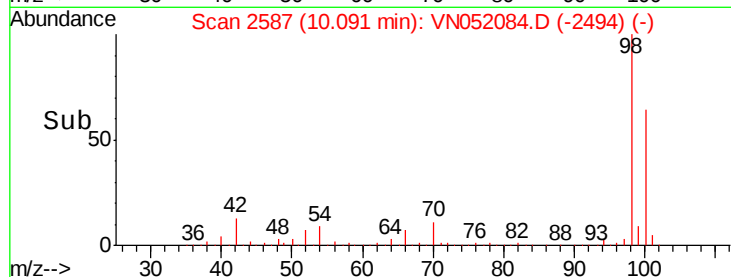
200000

100000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.525 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052084.D

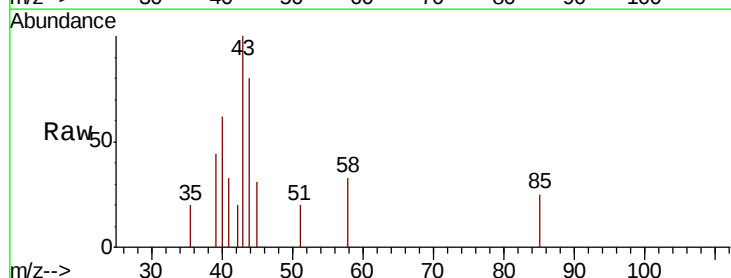
Acq: 31 Oct 2018 19:52

Tgt Ion: 43 Resp: 1836

Ion Ratio Lower Upper

43 100

58 18.8 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

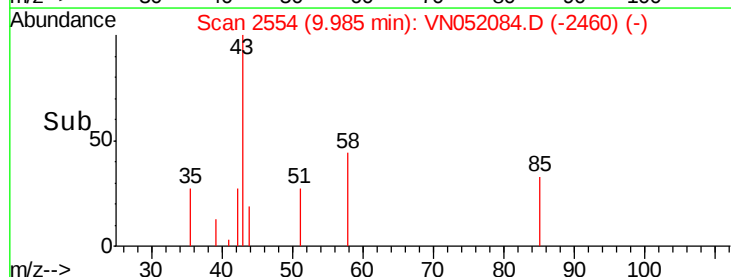
1000

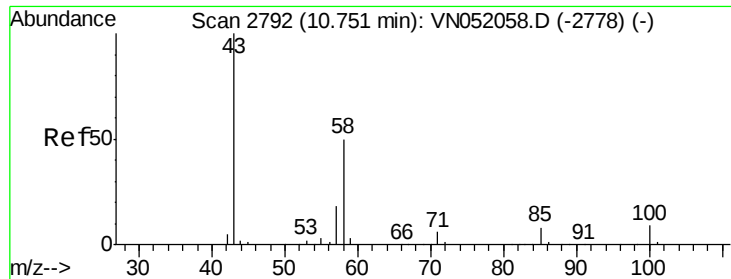
500

0

Time-->

9.95 10.00

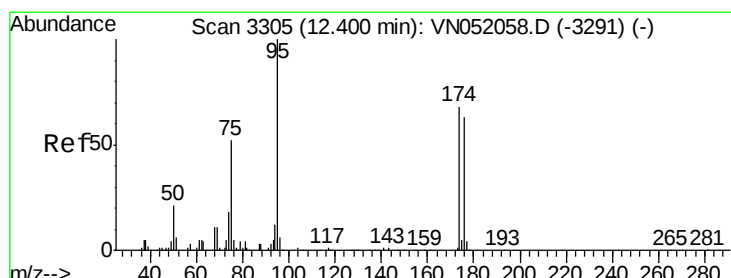
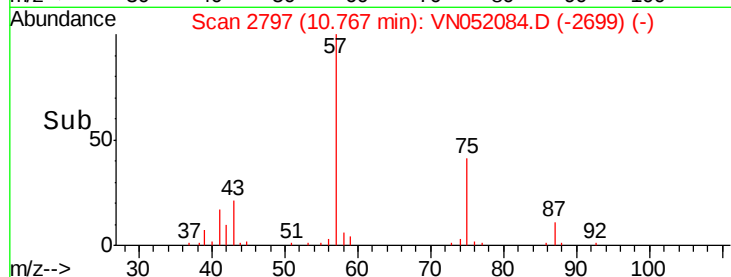
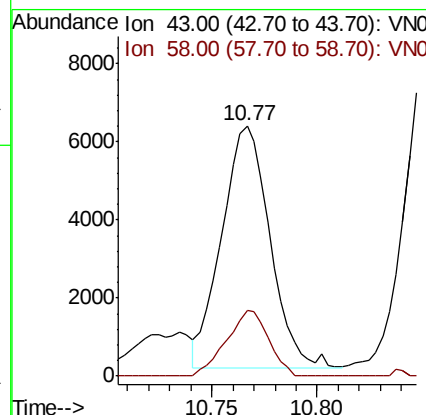
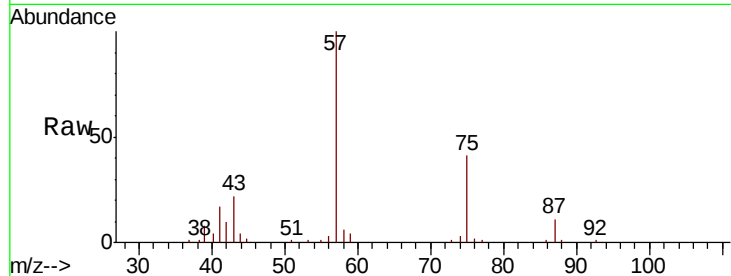




#59
2-Hexanone
Concen: 3.936 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

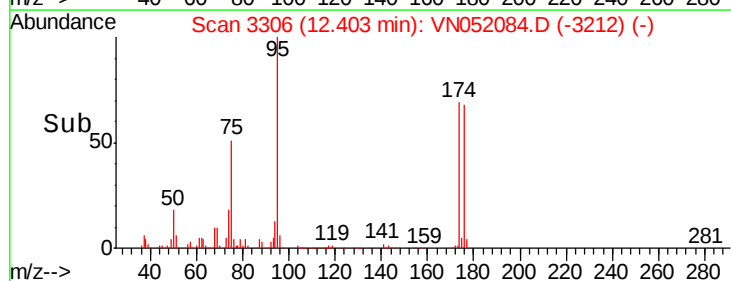
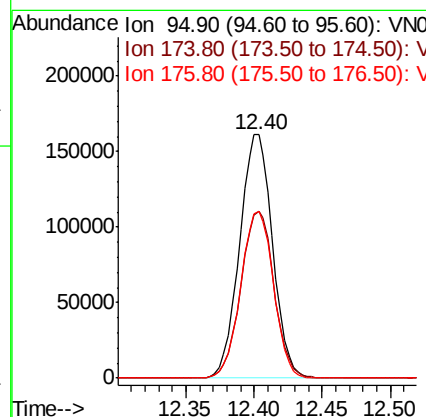
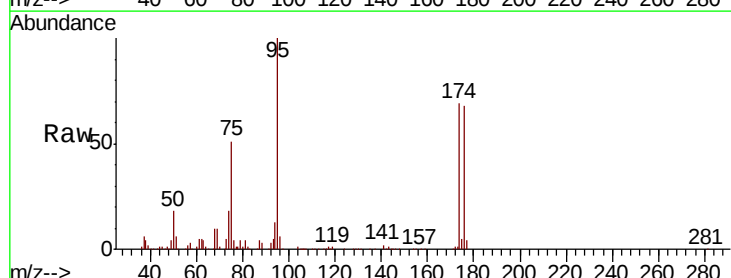
Instrument :
MSVOA_N
ClientSampled :

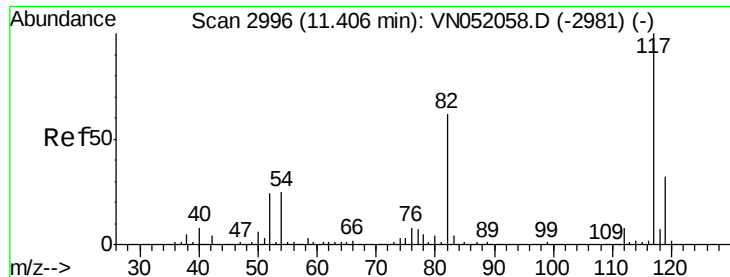
Tot Ion: 43 Resp: 9811
Ion Ratio Lower Upper
43 100
58 23.8 25.2 75.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Tgt Ion: 95 Resp: 269536
Ion Ratio Lower Upper
95 100
174 69.2 0.0 131.8
176 68.0 0.0 126.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

Instrument :

MSVOA_N

ClientSampled :

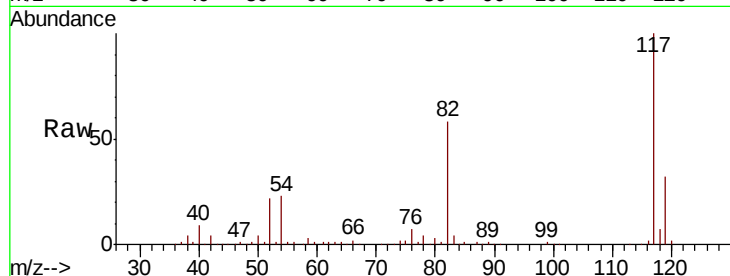
Tot Ion:117 Resp: 498172

Ion Ratio Lower Upper

117 100

82 57.9 49.9 74.9

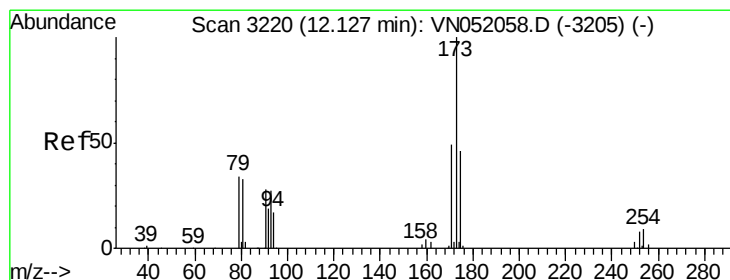
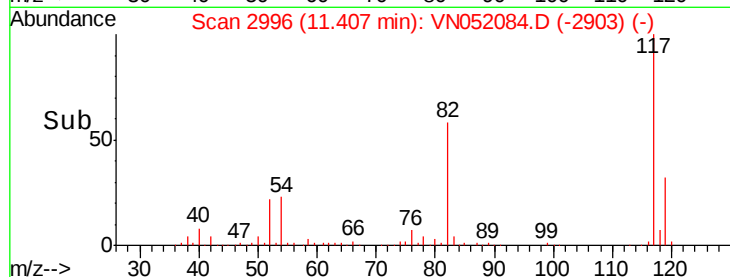
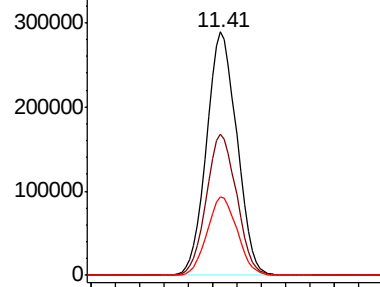
119 32.4 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.740 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

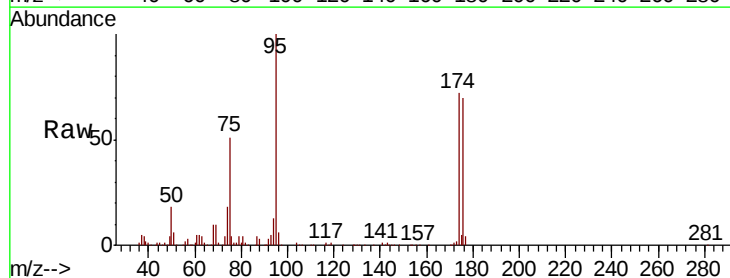
Tgt Ion:173 Resp: 3459

Ion Ratio Lower Upper

173 100

175 372.1 23.9 71.7#

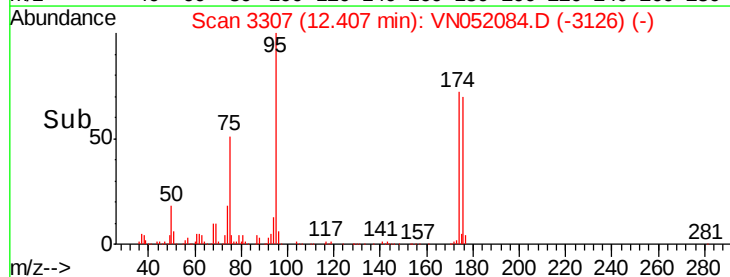
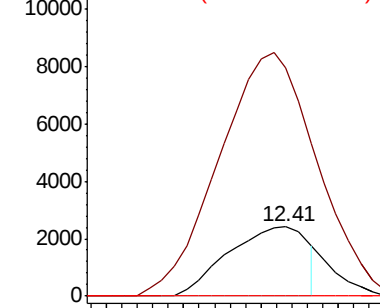
254 0.0 0.0 0.0

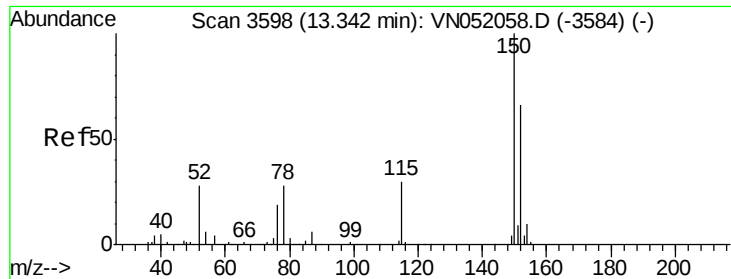


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



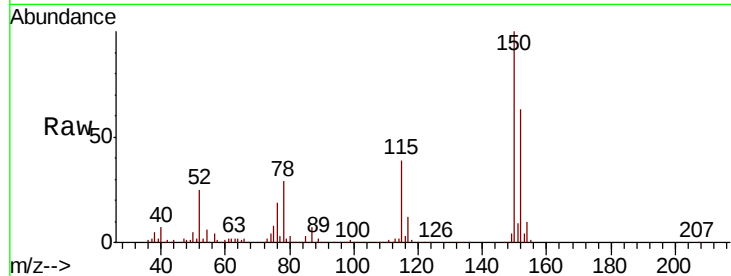


#72

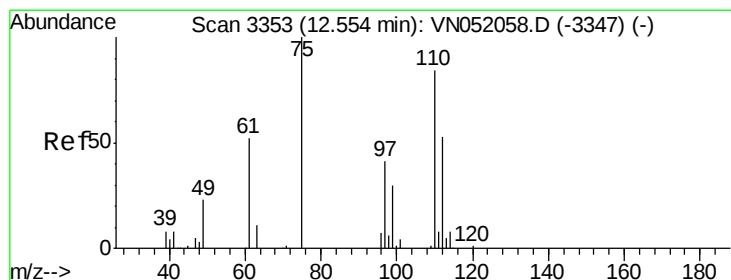
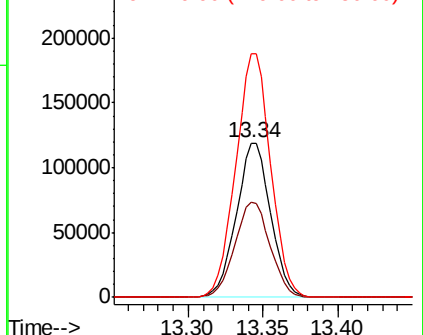
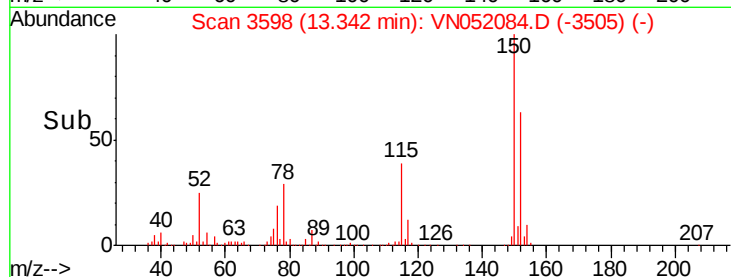
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	64.1	31.6	95.0
150	160.8	0.0	345.0



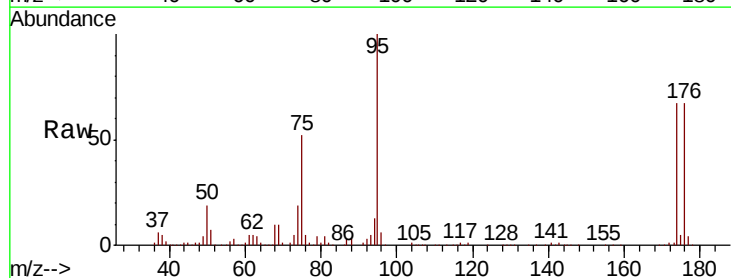
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



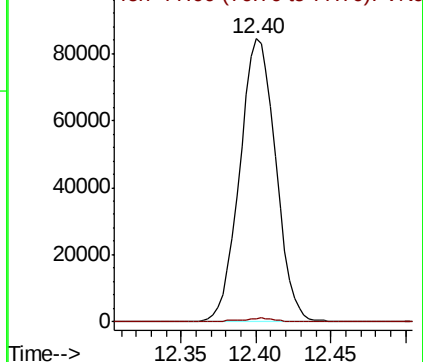
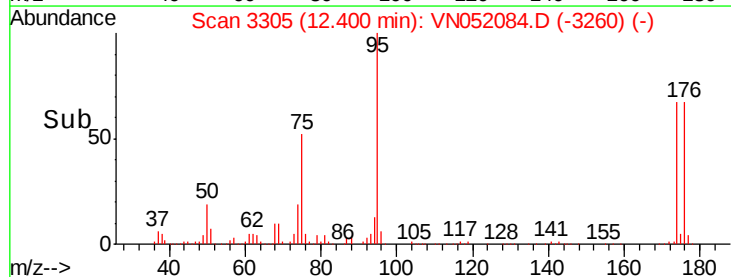
#76

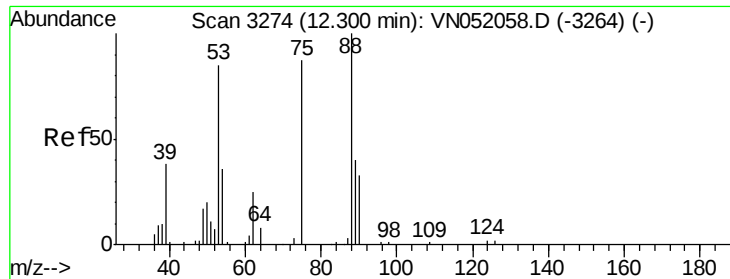
1,2,3-Trichloropropane
Concen: 40.854 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN052084.D
Acq: 31 Oct 2018 19:52

Tgt 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: 135.601 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

Instrument :

MSVOA_N

ClientSampleId :

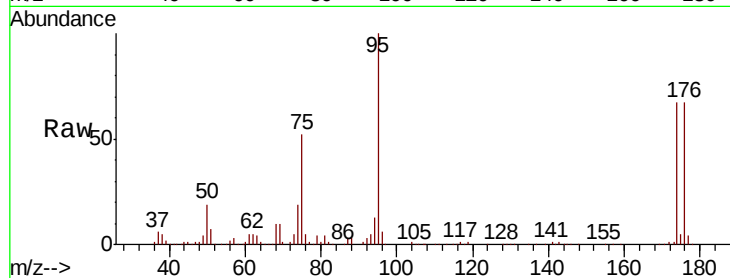
Tot Ion: 75 Resp: 141265

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

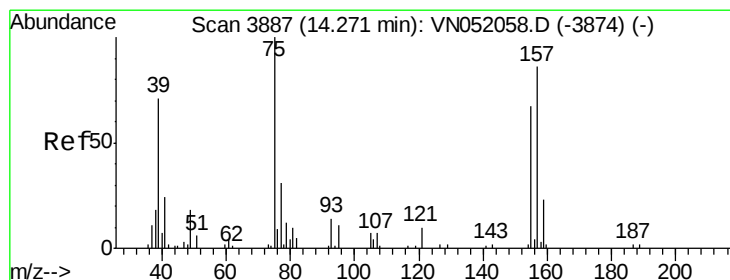
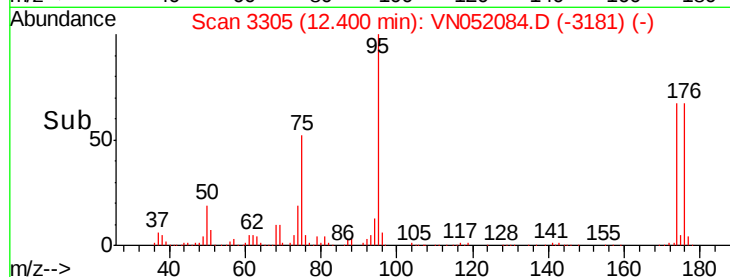
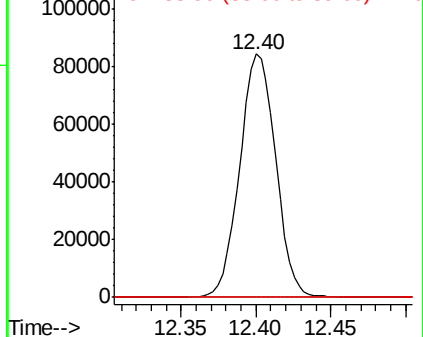
89 0.0 36.6 54.8#



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: 1.026 ug/l

RT: 14.23 min Scan# 3873

Delta R.T. -0.04 min

Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

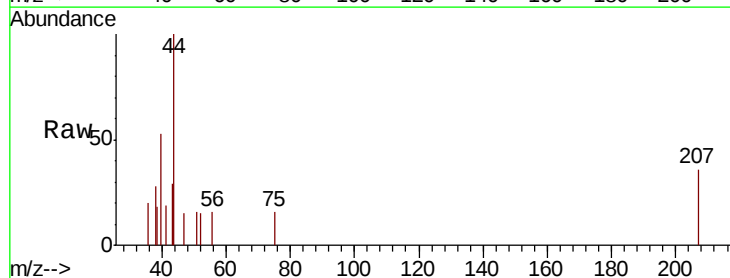
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

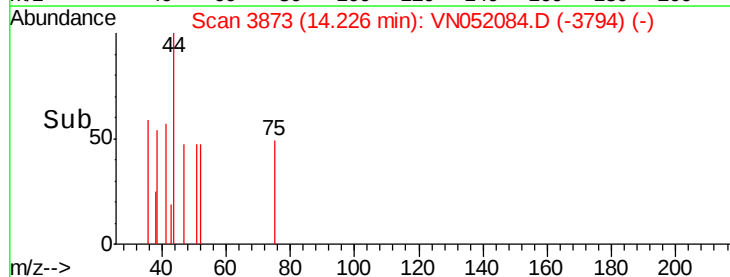
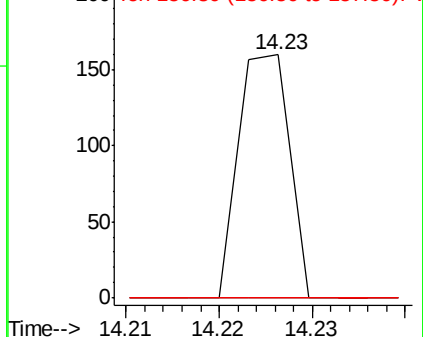
157 0.0 42.1 126.4#

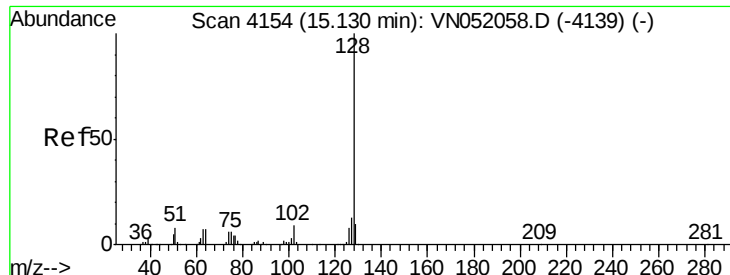


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.635 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

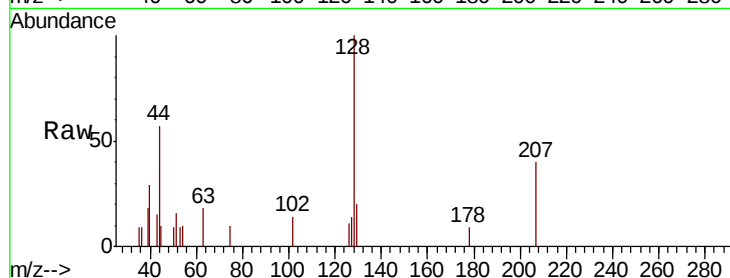
Lab File: VN052084.D

Acq: 31 Oct 2018 19:52

Instrument :

MSVOA_N

ClientSampleId :



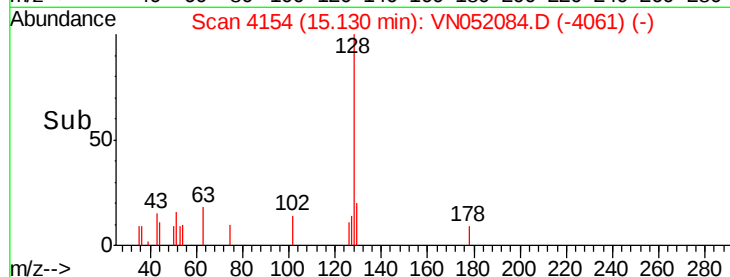
Tot Ion:128 Resp: 3437

Ion Ratio Lower Upper

128 100

127 10.7 10.5 15.7

129 11.6 8.6 12.8



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

