

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052131.D
 Acq On : 2 Nov 2018 16:10
 Operator : MD\SY
 Sample : J5741-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Nov 02 23:14:24 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	271730	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	507957	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	485882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	189598	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	238776	54.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.52%	
35) Dibromofluoromethane	7.59	113	190312	59.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.78%	
50) Toluene-d8	10.09	98	765114	60.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.48%	
62) 4-Bromofluorobenzene	12.40	95	256033	54.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.82%	

Target Compounds

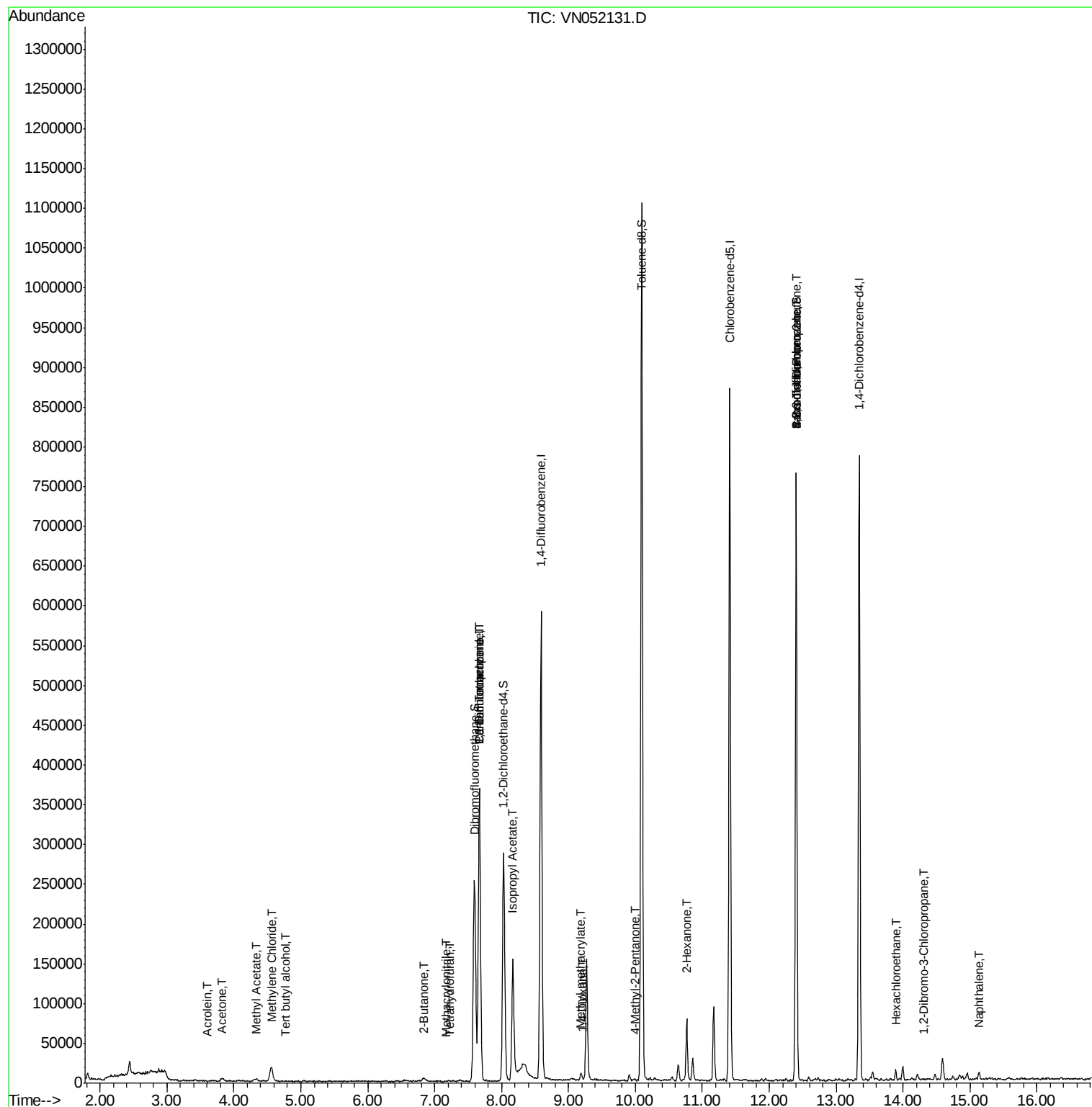
					Qvalue	
11) Tert butyl alcohol	4.77	59	254	1.163	ug/l #	76
13) Acrolein	3.60	56	65	24.305	ug/l #	64
16) Acetone	3.82	43	5904	6.343	ug/l #	73
18) Methyl Acetate	4.34	43	3666	1.237	ug/l #	84
20) Methylene Chloride	4.56	84	12266	3.459	ug/l #	79
25) 2-Butanone	6.84	43	2504	1.715	ug/l	98
29) Tetrahydrofuran	7.22	42	954	0.981	ug/l #	39
31) Cyclohexane	7.67	56	7153	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	24259	4.697	ug/l #	46
38) Carbon Tetrachloride	7.67	117	28233	6.340	ug/l #	19
41) Methacrylonitrile	7.17	41	211	0.260	ug/l #	22
43) Isopropyl Acetate	8.17	43	183211	29.797	ug/l	98
48) Methyl methacrylate	9.18	41	4886	1.567	ug/l #	25
49) 1,4-Dioxane	9.21	88	62	27.373	ug/l #	18
51) 4-Methyl-2-Pentanone	9.98	43	750	0.224	ug/l	95
59) 2-Hexanone	10.77	43	11817	4.962	ug/l #	63
71) Bromoform	12.41	173	3099	3.613	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	134286	38.692	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	134286	128.424	ug/l #	9
90) Hexachloroethane	13.89	117	843	0.381	ug/l #	19
92) 1,2-Dibromo-3-Chloropropan	14.31	75	30	0.971	ug/l #	11
95) Naphthalene	15.14	128	6797	1.251	ug/l #	93

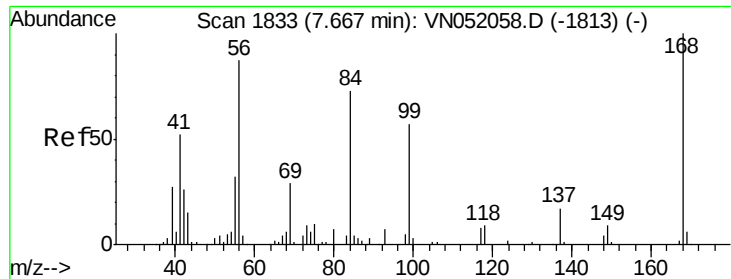
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

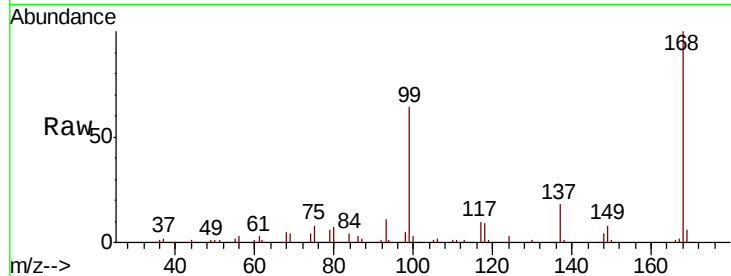
Instrument :
MSVOA_N
ClientSampled :
TP-1

Tot Ion:168 Resp: 271730

Ion Ratio Lower Upper

168 100

99 64.1 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052131.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052131.D (-1740) (-)

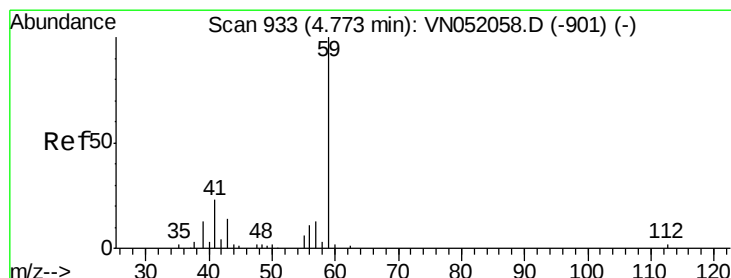
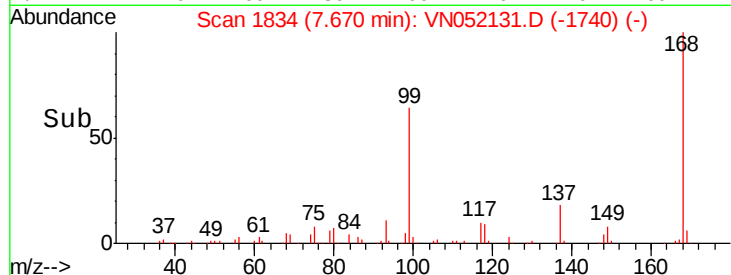
7.67

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 1.163 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.00 min

Lab File: VN052131.D

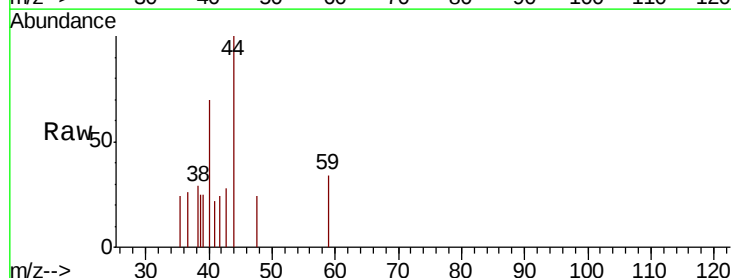
Acq: 2 Nov 2018 16:10

Tgt Ion: 59 Resp: 254

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052131.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN052131.D (-840) (-)

4.77

250

200

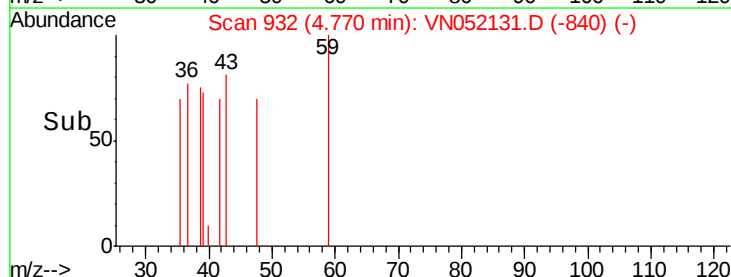
150

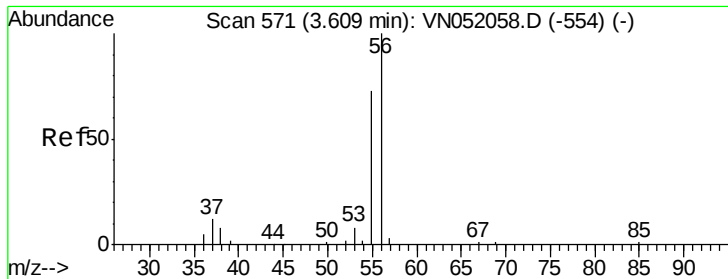
100

50

0

Time--> 4.74 4.76 4.78 4.80





#13

Acrolein

Concen: 24.305 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

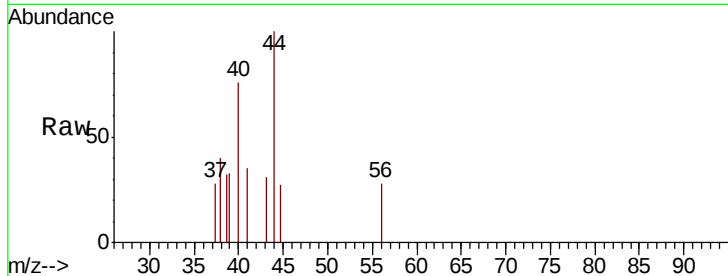
TP-1

Tot Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 44.6 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

200

150

100

50

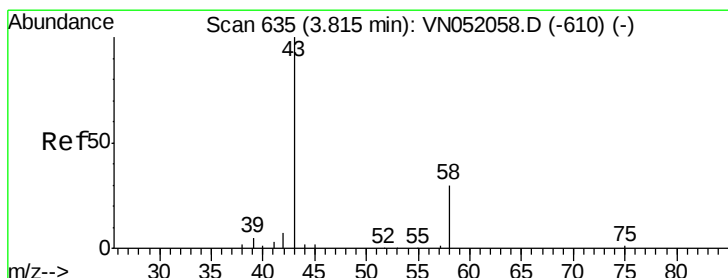
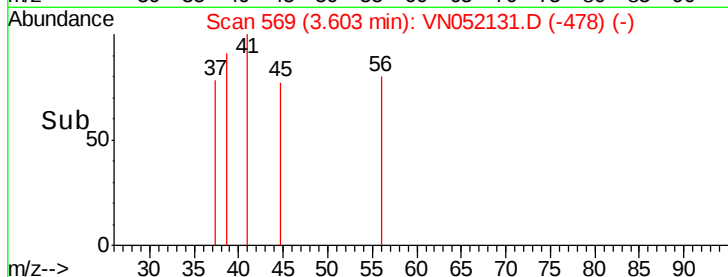
0

3.59

3.60

3.61

Time-->



#16

Acetone

Concen: 6.343 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052131.D

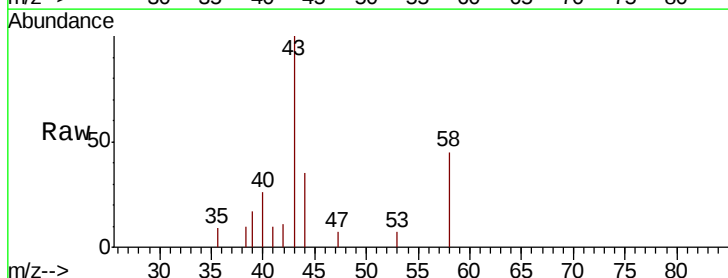
Acq: 2 Nov 2018 16:10

Tgt Ion: 43 Resp: 5904

Ion Ratio Lower Upper

43 100

58 45.1 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2500

2000

1500

1000

500

0

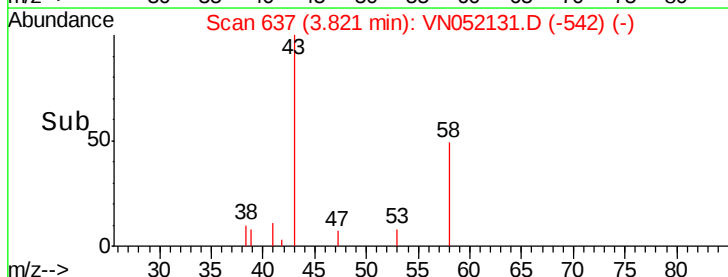
3.75

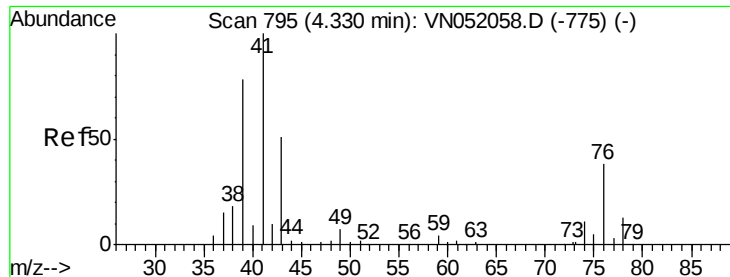
3.80

3.85

3.90

Time-->

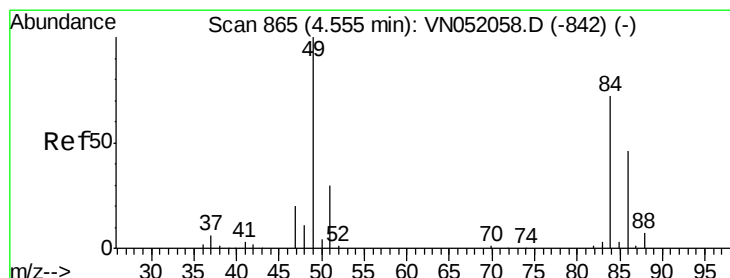
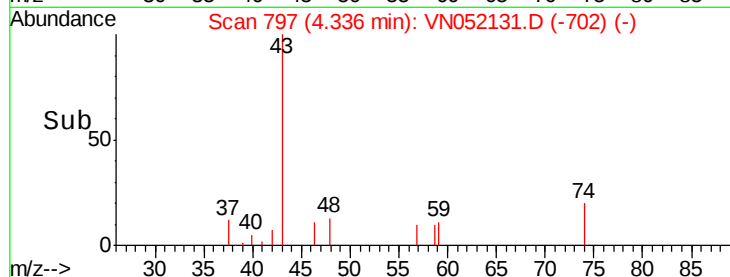
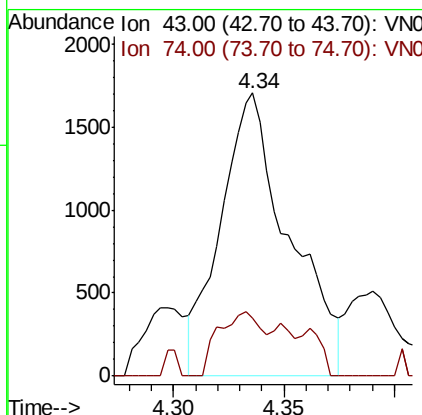
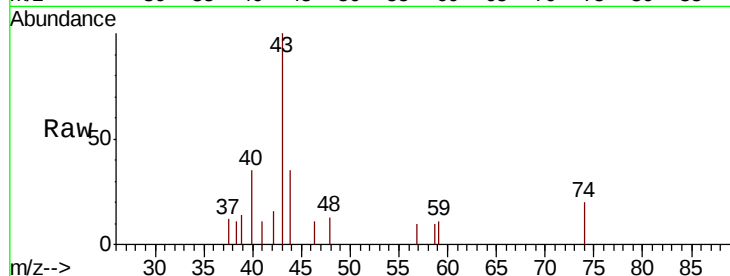




#18
Methyl Acetate
Concen: 1.237 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

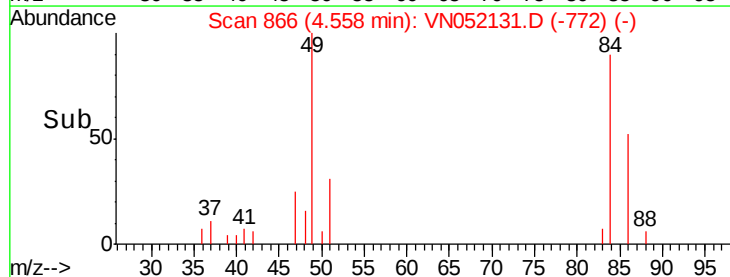
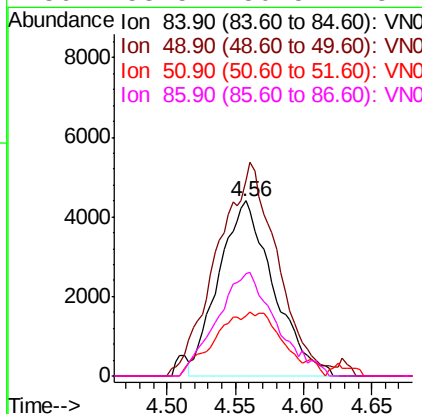
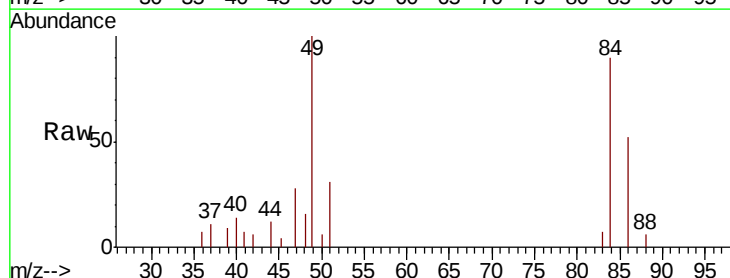
Instrument :
MSVOA_N
ClientSampleId :
TP-1

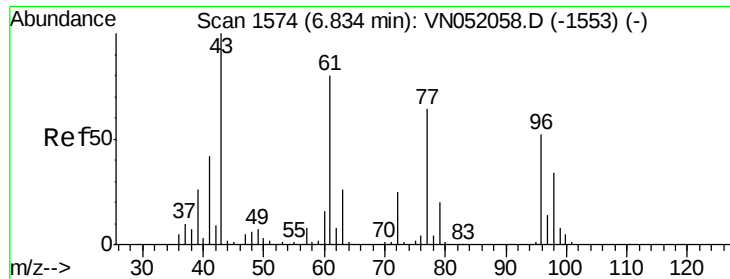
Tot Ion: 43 Resp: 3666
Ion Ratio Lower Upper
43 100
74 14.5 17.9 26.9#



#20
Methylene Chloride
Concen: 3.459 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Tgt Ion: 84 Resp: 12266
Ion Ratio Lower Upper
84 100
49 106.1 110.6 165.8#
51 27.2 33.7 50.5#
86 58.5 50.5 75.7





#25

2-Butanone

Concen: 1.715 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

Instrument :

MSVOA_N

ClientSampled :

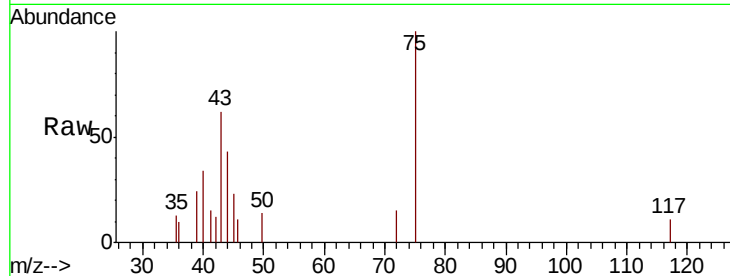
TP-1

Tot Ion: 43 Resp: 2504

Ion Ratio Lower Upper

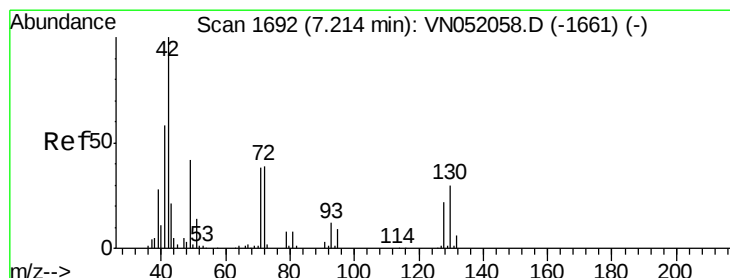
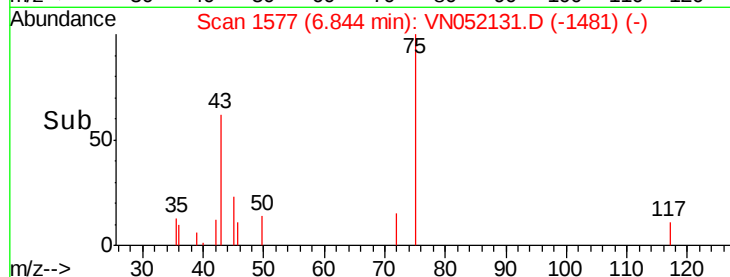
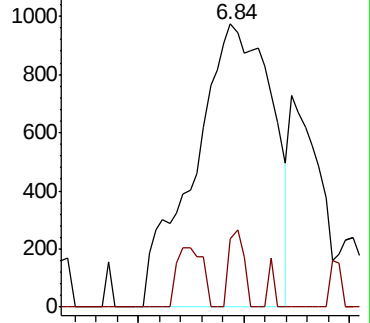
43 100

72 23.9 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.981 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

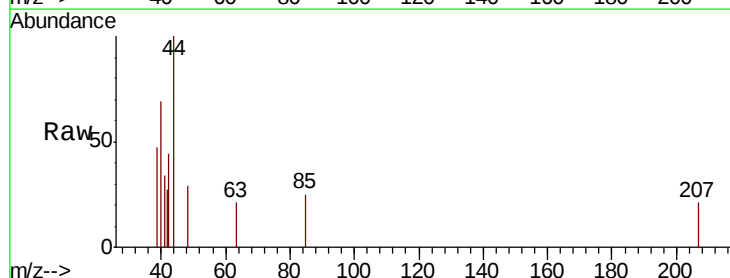
Tgt Ion: 42 Resp: 954

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

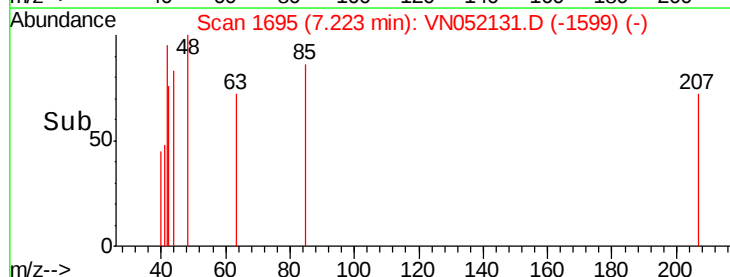
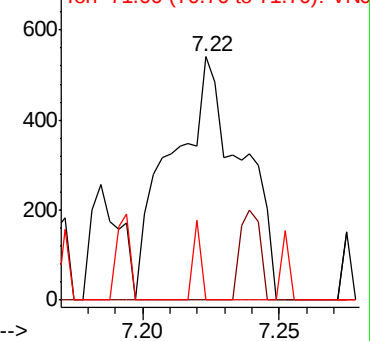
71 3.6 30.6 46.0#

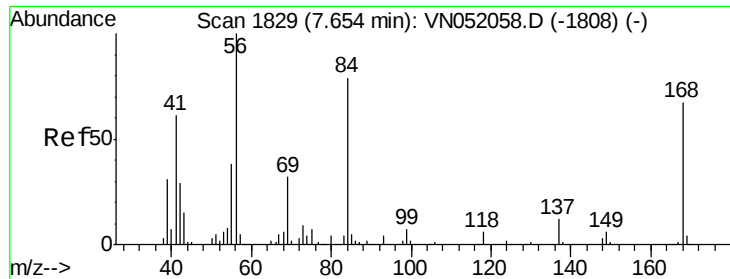


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

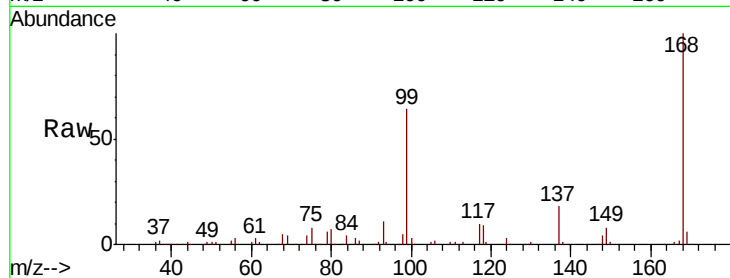




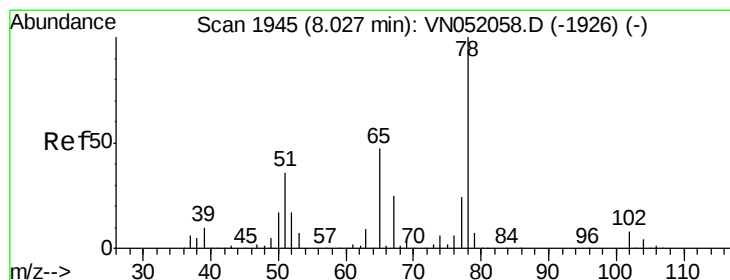
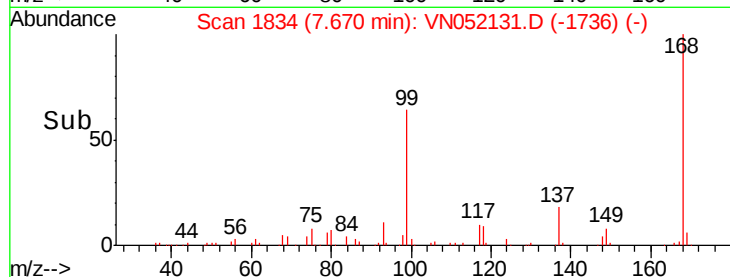
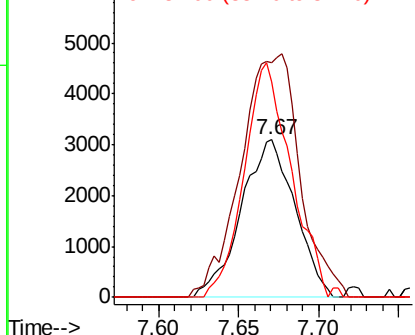
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Instrument :
MSVOA_N
ClientSampled :
TP-1

Tot Ion: 56 Resp: 7153
Ion Ratio Lower Upper
56 100
69 149.6 25.8 38.6#
84 136.8 63.5 95.3#

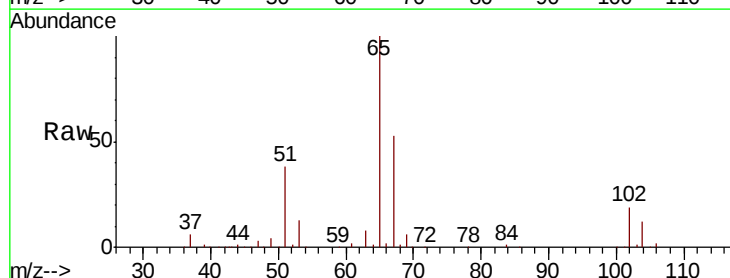


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

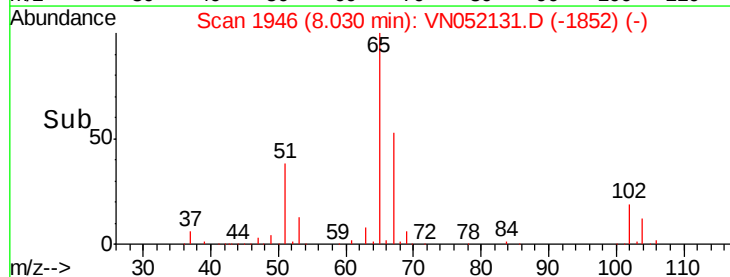
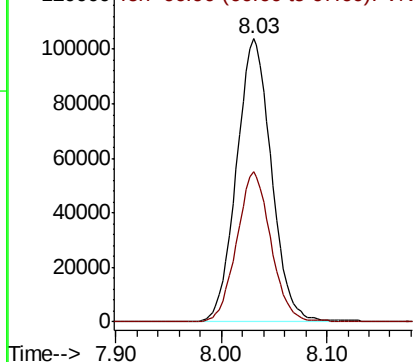


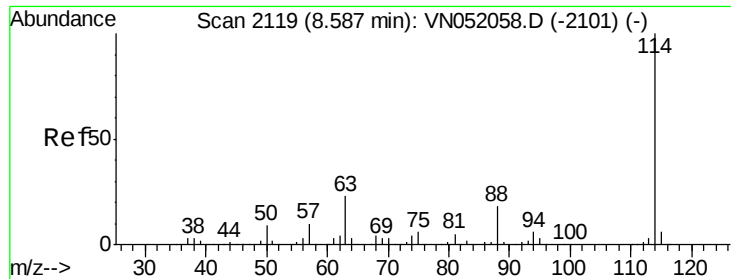
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Tgt Ion: 65 Resp: 238776
Ion Ratio Lower Upper
65 100
67 51.5 0.0 105.2



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

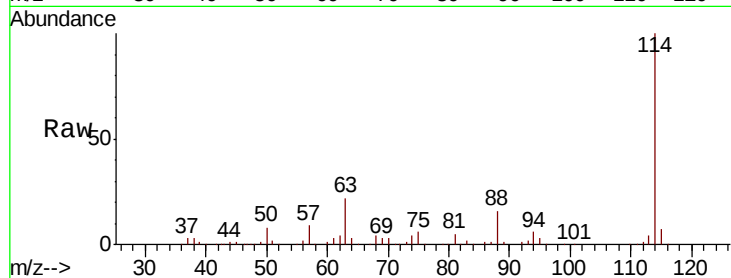




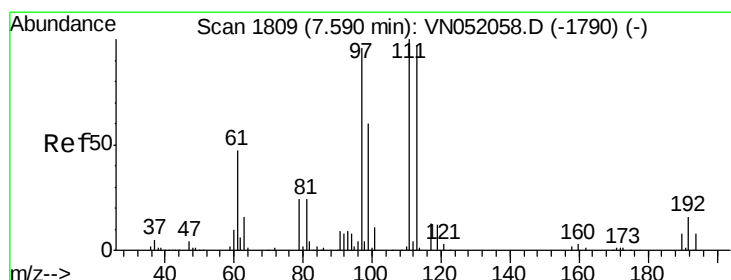
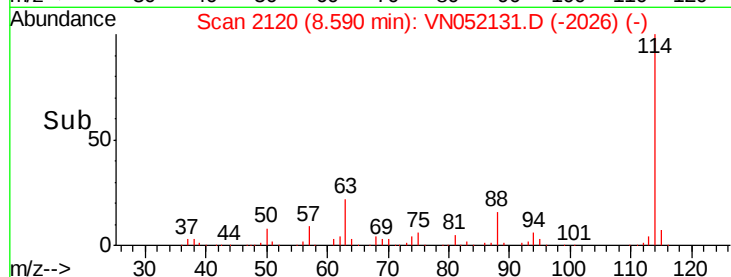
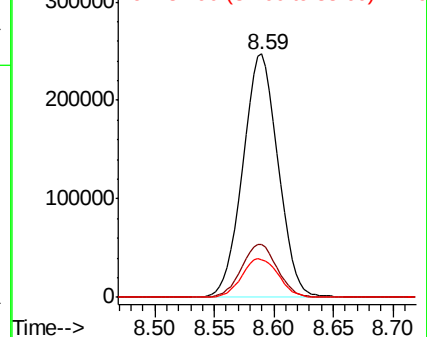
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN052131.D
 Acq: 2 Nov 2018 16:10

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Tot Ion:114 Resp: 507957
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 46.0
 88 15.6 0.0 35.4

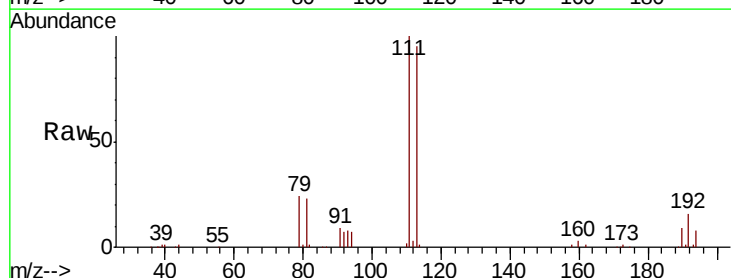


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

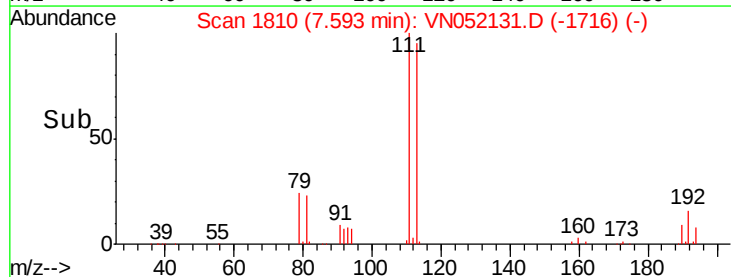
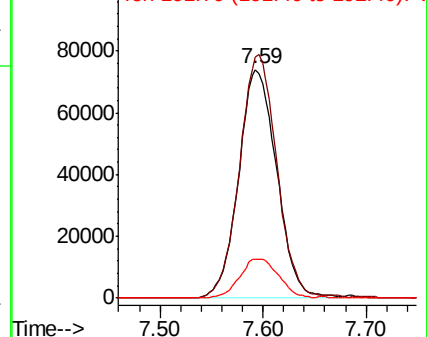


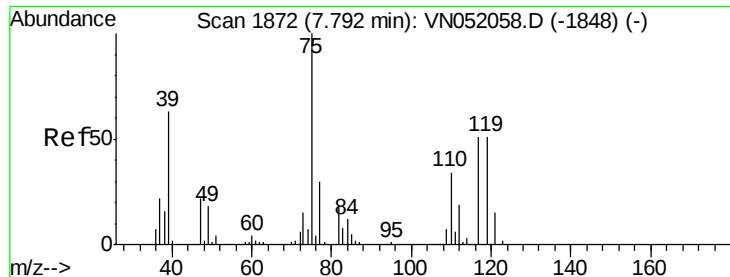
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052131.D
 Acq: 2 Nov 2018 16:10

Tgt Ion:113 Resp: 190312
 Ion Ratio Lower Upper
 113 100
 111 104.0 83.1 124.7
 192 17.6 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

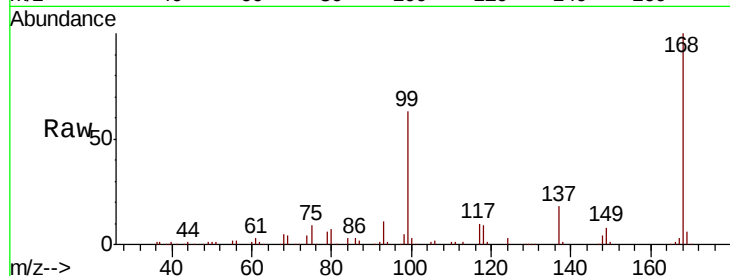




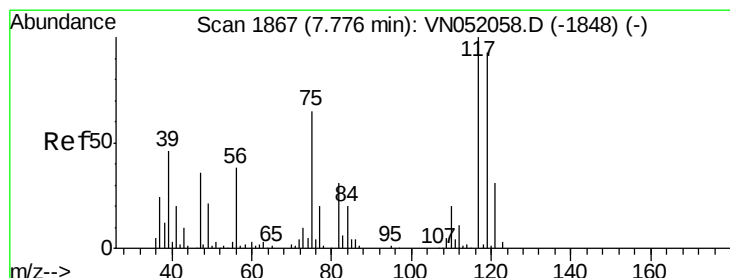
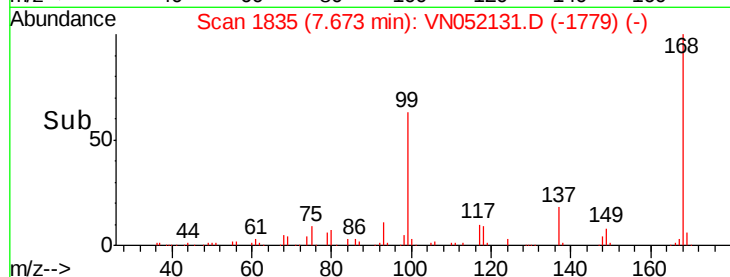
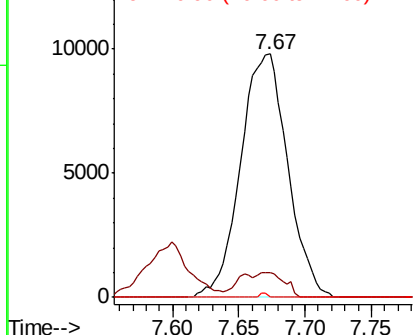
#36
 1,1-Dichloropropene
 Concen: 4.697 ug/l
 RT: 7.67 min Scan# 1835
 Delta R.T. -0.12 min
 Lab File: VN052131.D
 Acq: 2 Nov 2018 16:10

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Tot Ion: 75 Resp: 24259
 Ion Ratio Lower Upper
 75 100
 110 2.3 16.0 48.0#
 77 0.3 24.5 36.7#

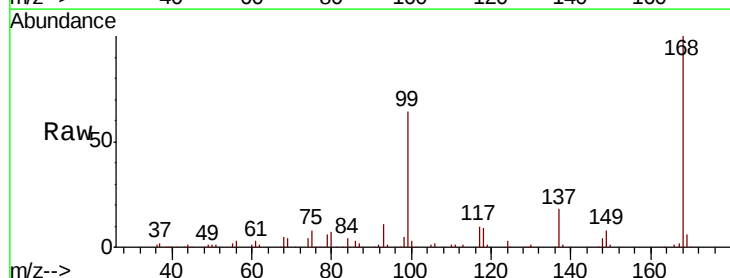


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

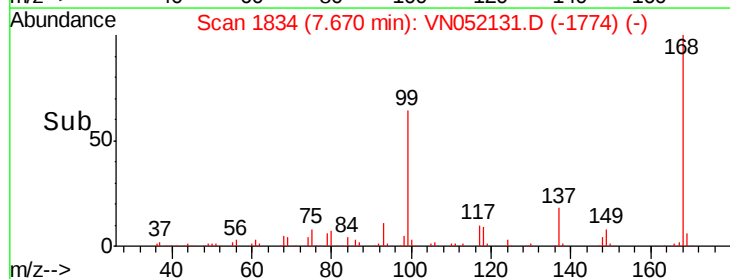
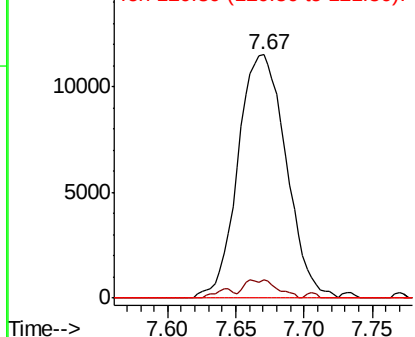


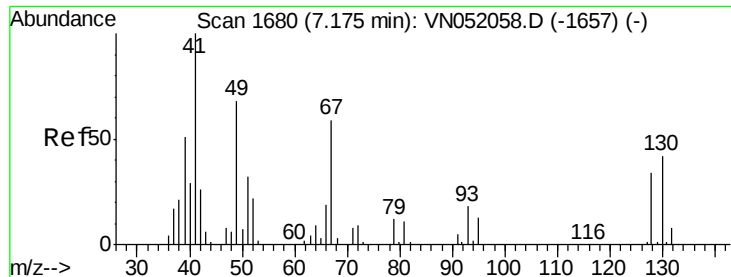
#38
 Carbon Tetrachloride
 Concen: 6.340 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN052131.D
 Acq: 2 Nov 2018 16:10

Tgt Ion: 117 Resp: 28233
 Ion Ratio Lower Upper
 117 100
 119 7.3 74.8 112.2#
 121 0.0 25.1 37.7#



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

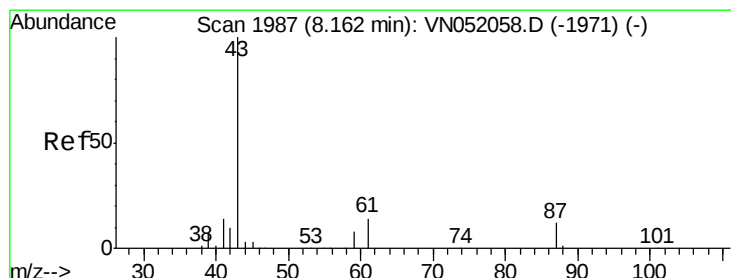
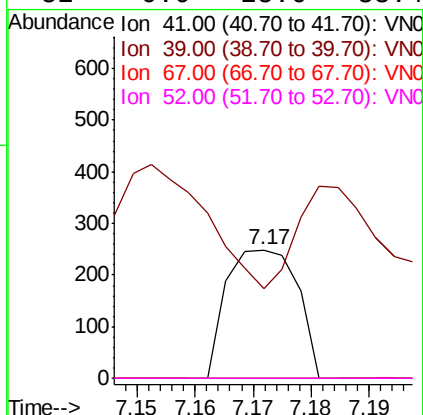
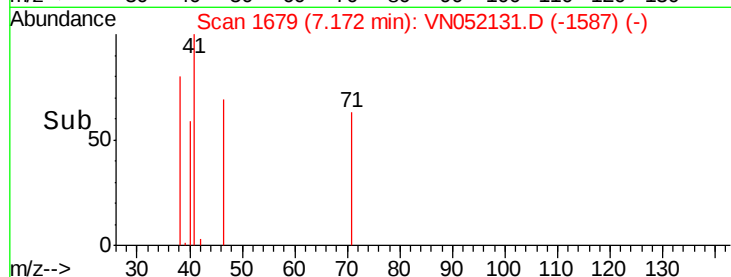
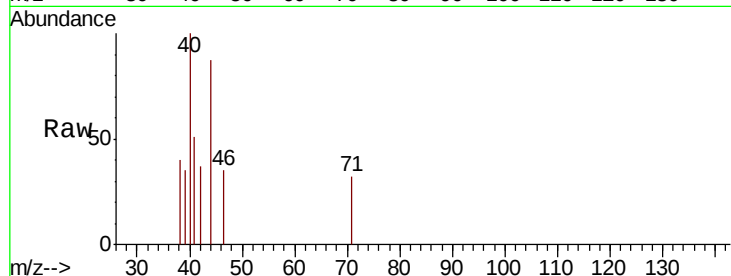




#41
Methacrylonitrile
Concen: 0.260 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

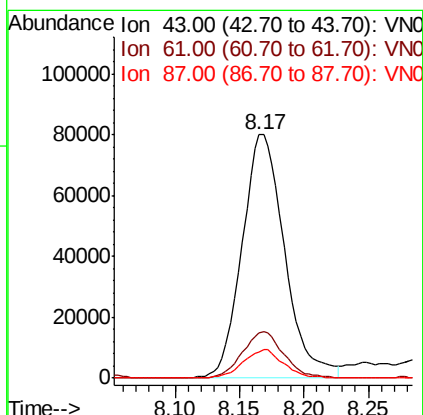
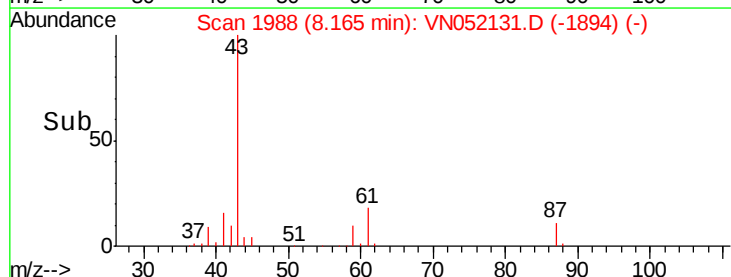
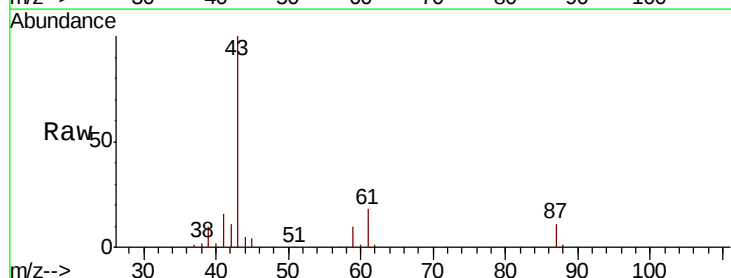
Instrument :
MSVOA_N
ClientSampled :
TP-1

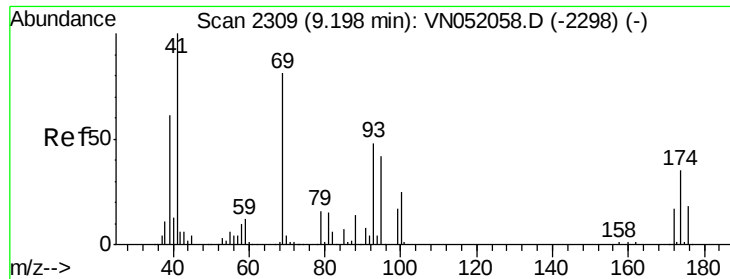
Tot Ion: 41 Resp: 211
Ion Ratio Lower Upper
41 100
39 86.3 33.2 49.8#
67 0.0 63.5 95.3#
52 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 29.797 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Tgt Ion: 43 Resp: 183211
Ion Ratio Lower Upper
43 100
61 18.7 15.4 23.0
87 11.2 9.8 14.8

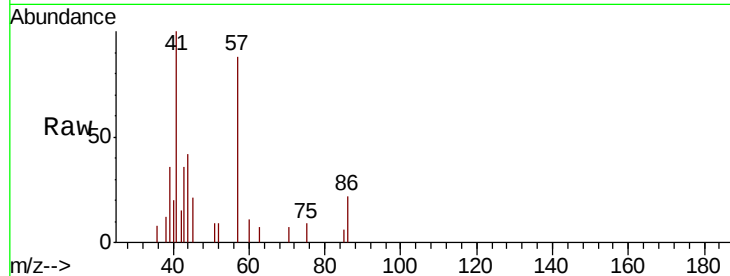




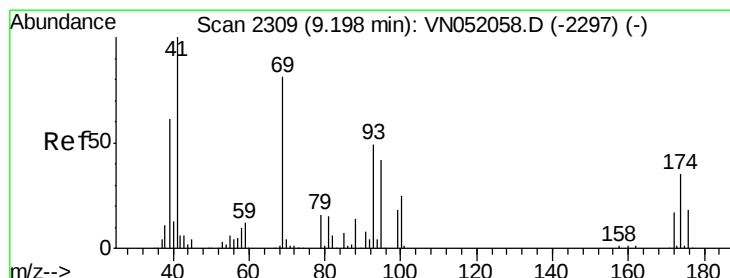
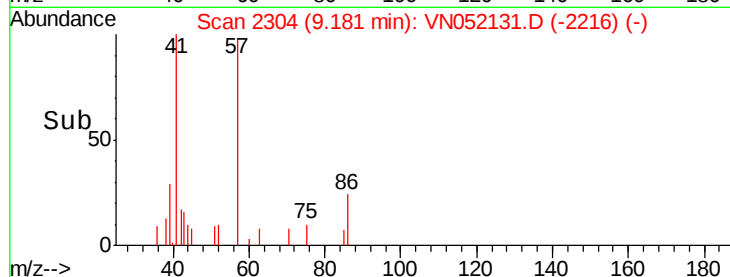
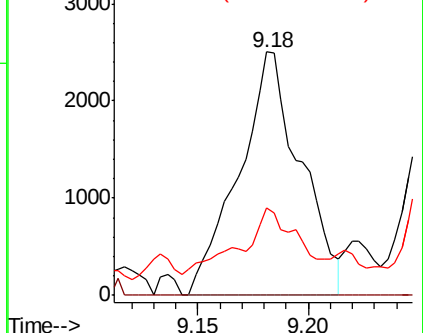
#48
Methyl methacrylate
Concen: 1.567 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Instrument :
MSVOA_N
ClientSampled :
TP-1

Tot Ion: 41 Resp: 4886
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 23.6 50.5 75.7#

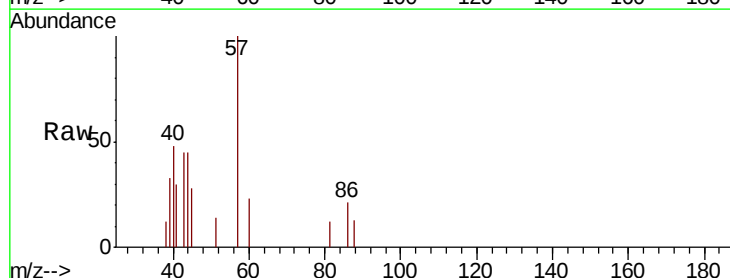


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

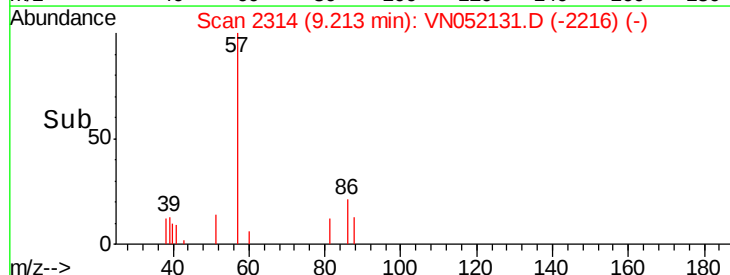
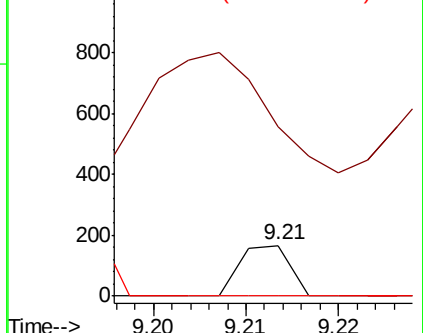


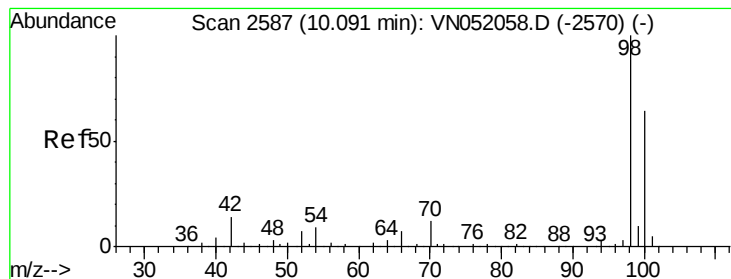
#49
1,4-Dioxane
Concen: 27.373 ug/l
RT: 9.21 min Scan# 2314
Delta R.T. 0.02 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Tgt Ion: 88 Resp: 62
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: 27.373 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

Instrument :

MSVOA_N

ClientSampled :

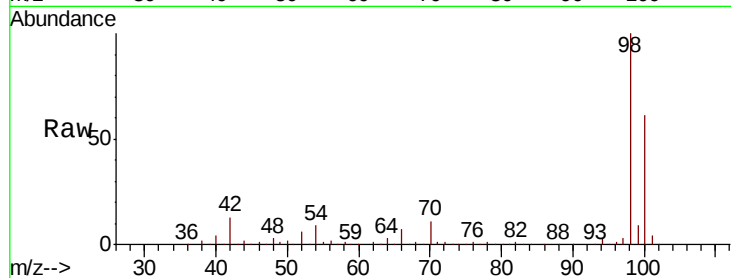
TP-1

Tot Ion: 98 Resp: 765114

Ion Ratio Lower Upper

98 100

100 62.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN052058.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052058.D (-2570) (-)

10.09

400000

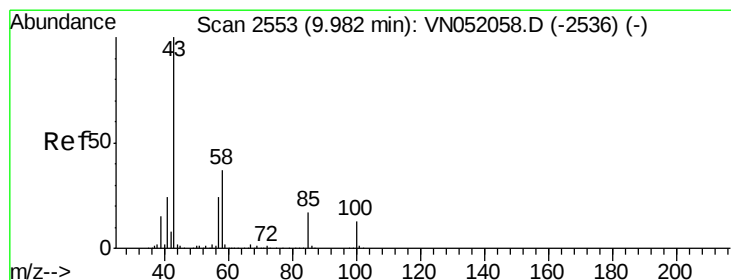
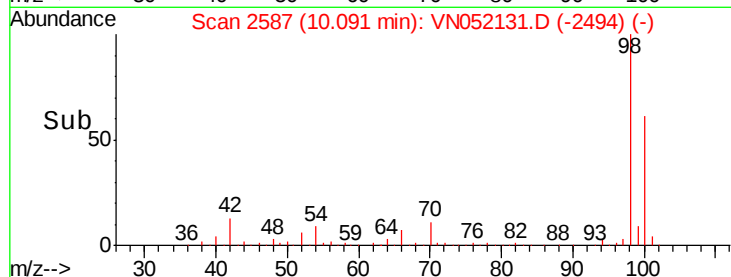
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.224 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052131.D

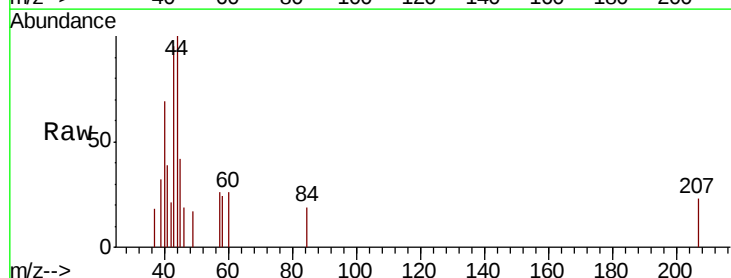
Acq: 2 Nov 2018 16:10

Tgt Ion: 43 Resp: 750

Ion Ratio Lower Upper

43 100

58 40.1 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2536) (-)

9.98

800

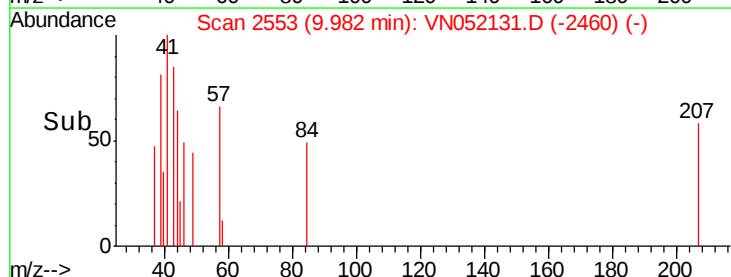
600

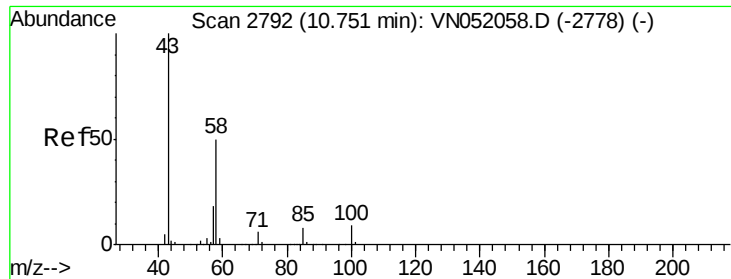
400

200

0

Time-->





#59

2-Hexanone

Concen: 4.962 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

Instrument :

MSVOA_N

ClientSampled :

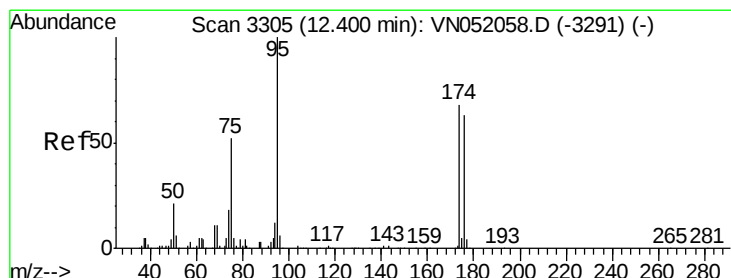
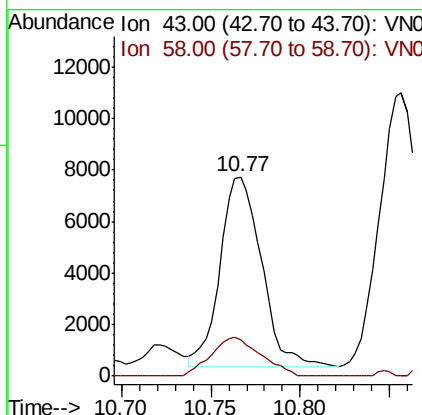
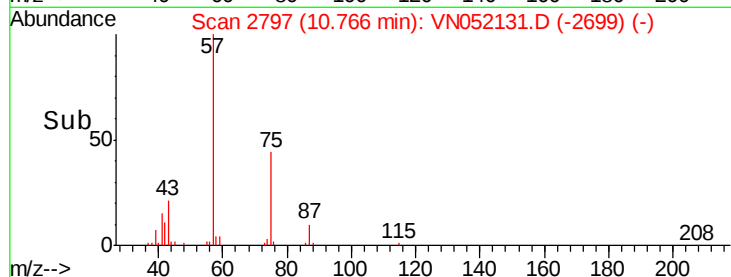
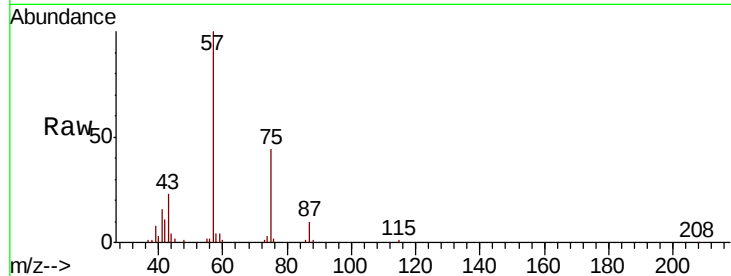
TP-1

Tot Ion: 43 Resp: 11817

Ion Ratio Lower Upper

43 100

58 24.7 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: VN052131.D

Acq: 2 Nov 2018 16:10

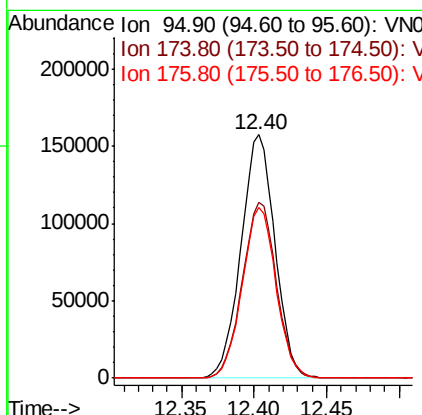
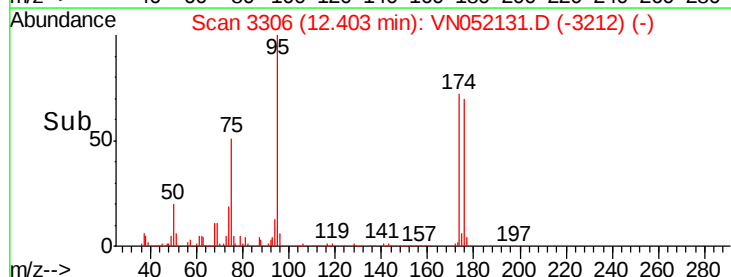
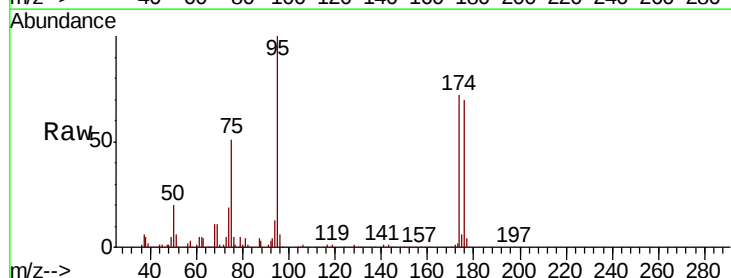
Tgt Ion: 95 Resp: 256033

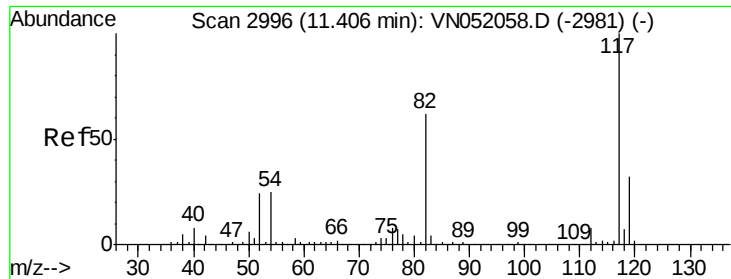
Ion Ratio Lower Upper

95 100

174 72.9 0.0 131.8

176 70.0 0.0 126.0

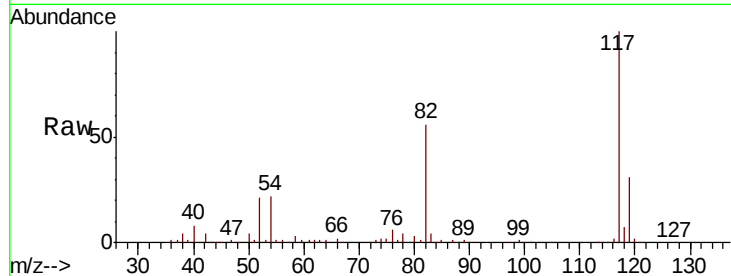




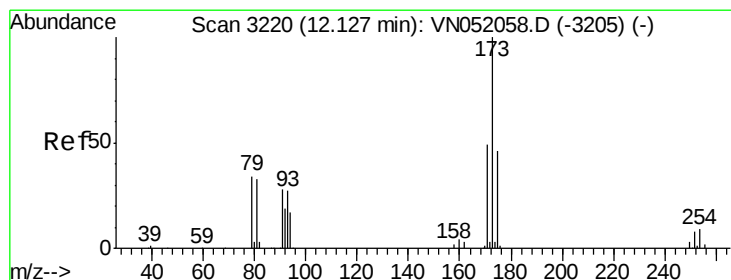
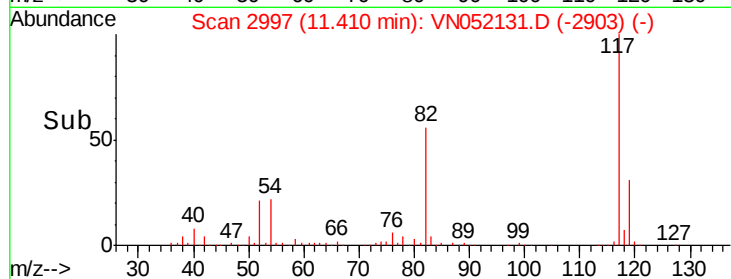
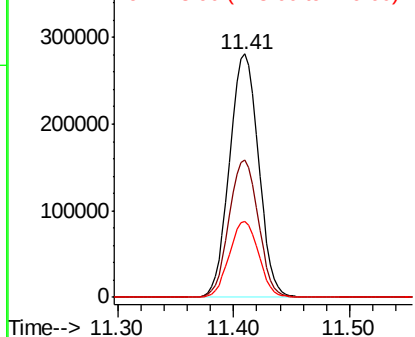
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tot Ion:117 Resp: 485882
Ion Ratio Lower Upper
117 100
82 56.3 49.9 74.9
119 31.2 25.7 38.5

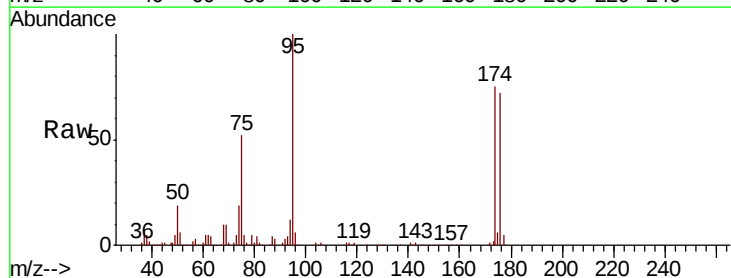


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

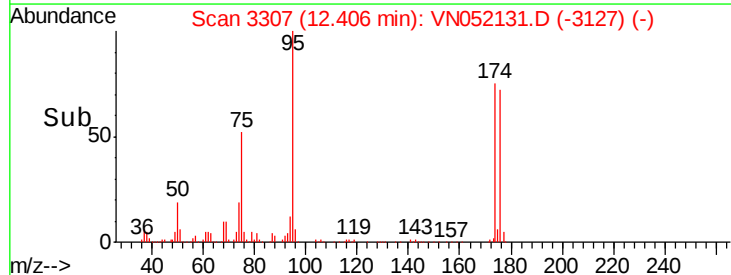
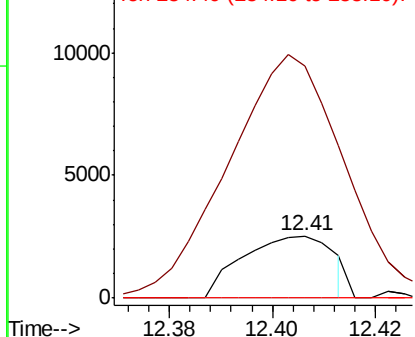


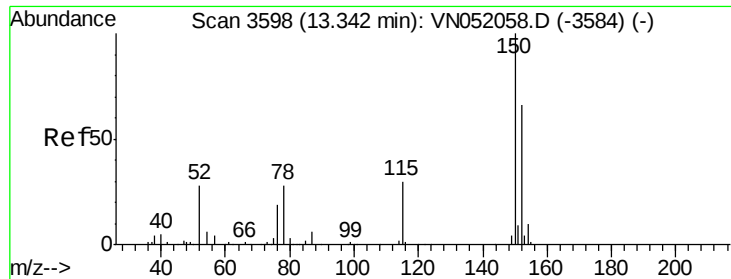
#71
Bromoform
Concen: 3.613 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN052131.D
Acq: 2 Nov 2018 16:10

Tgt Ion:173 Resp: 3099
Ion Ratio Lower Upper
173 100
175 436.0 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

Instrument :

MSVOA_N

ClientSampled :

TP-1

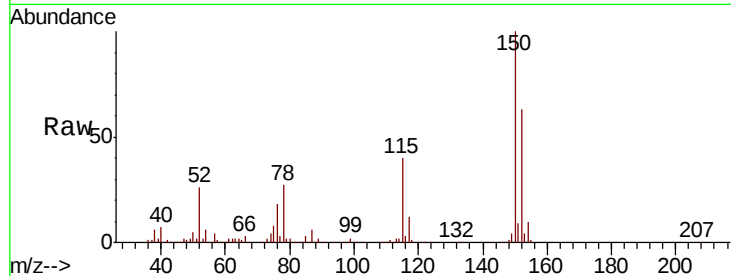
Tot Ion:152 Resp: 189598

Ion Ratio Lower Upper

152 100

115 63.2 31.6 95.0

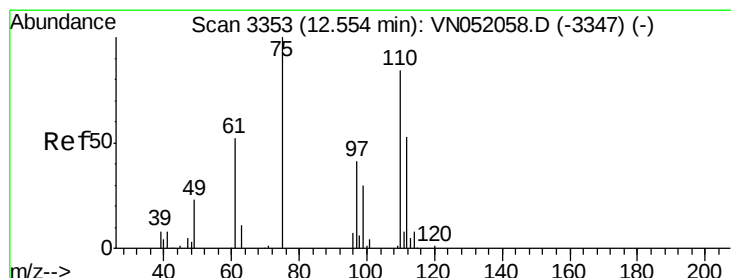
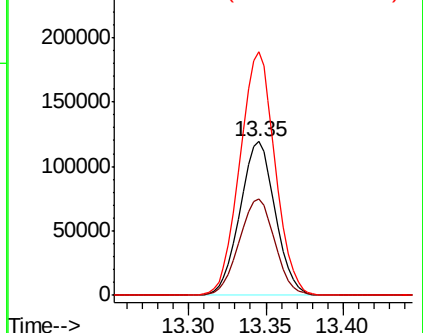
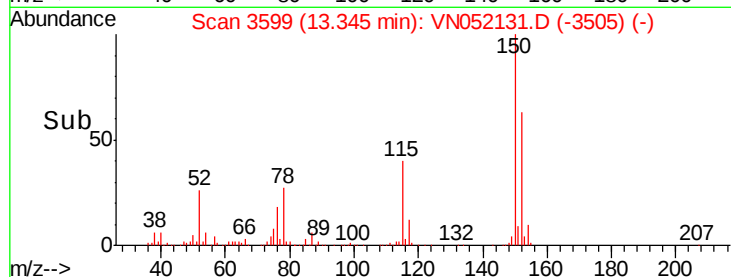
150 157.6 0.0 345.0



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: 38.692 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052131.D

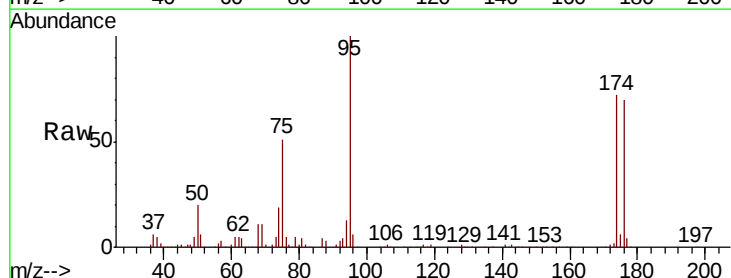
Acq: 2 Nov 2018 16:10

Tgt Ion: 75 Resp: 134286

Ion Ratio Lower Upper

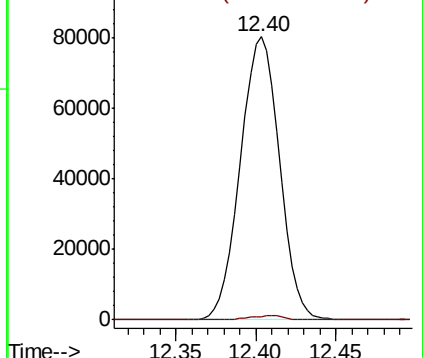
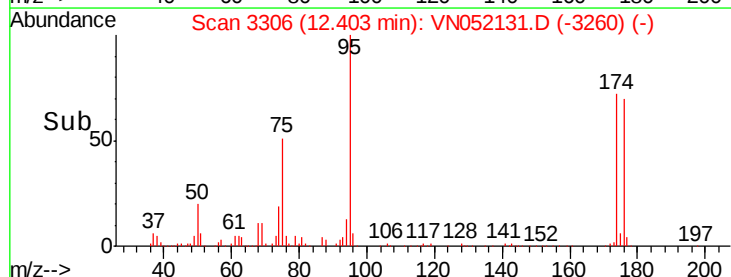
75 100

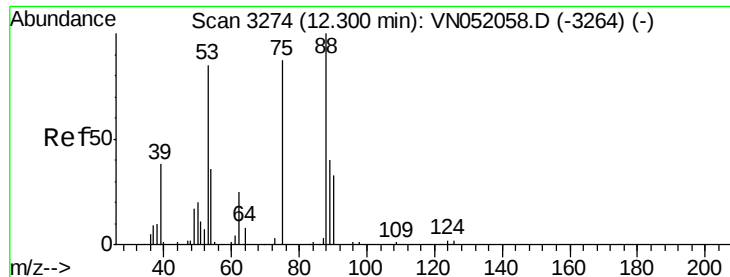
77 1.3 0.0 0.0#



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: 128.424 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

TP-1

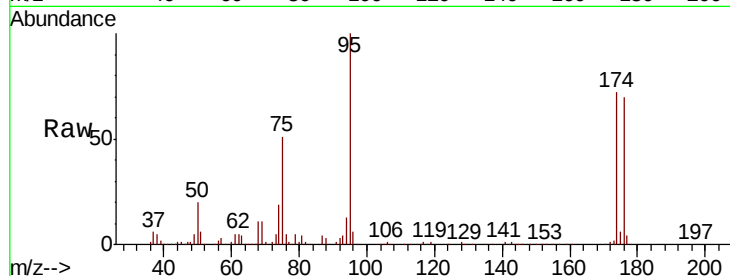
Tot Ion: 75 Resp: 134286

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

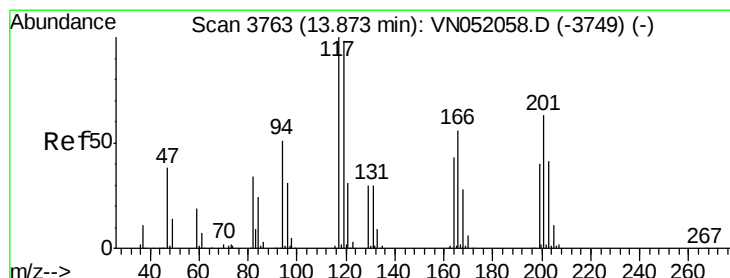
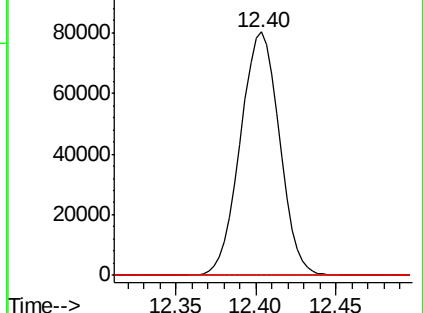
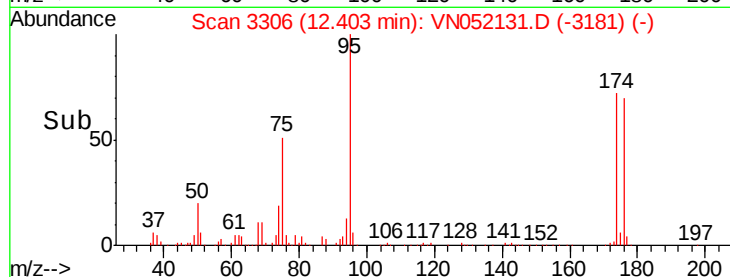
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN052131.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN052131.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN052131.D (-3181) (-)



#90

Hexachloroethane

Concen: 0.381 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN052131.D

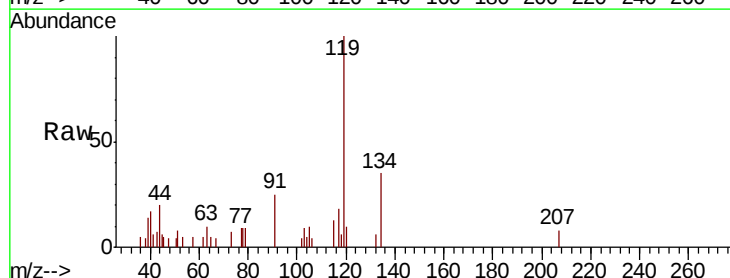
Acq: 2 Nov 2018 16:10

Tgt Ion: 117 Resp: 843

Ion Ratio Lower Upper

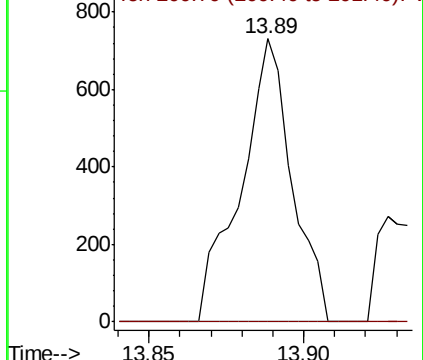
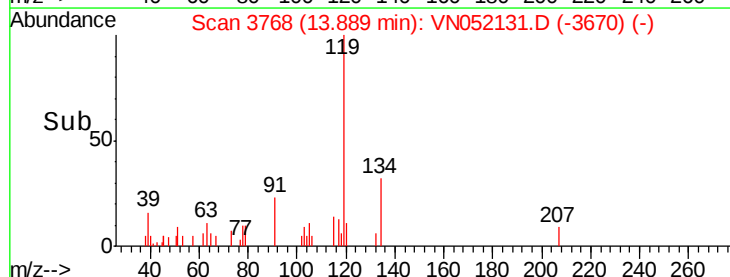
117 100

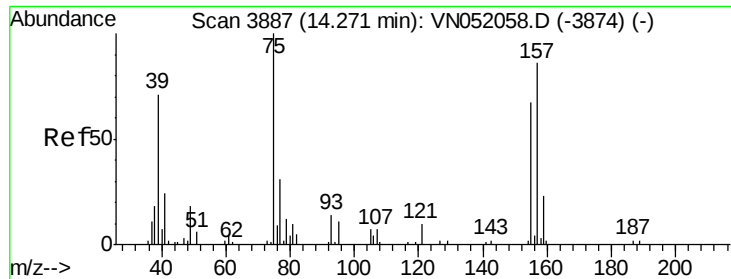
201 0.0 31.1 93.5#



Abundance Ion 116.80 (116.50 to 117.50): VN052131.D (-3670) (-)

Ion 200.70 (200.40 to 201.40): VN052131.D (-3670) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.971 ug/l

RT: 14.31 min Scan# 3900

Delta R.T. 0.04 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

Instrument :

MSVOA_N

ClientSampled :

TP-1

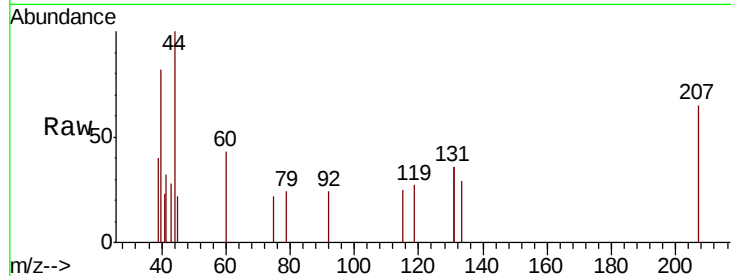
Tot Ion: 75 Resp: 30

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): VN052058.D (-3874) (-)

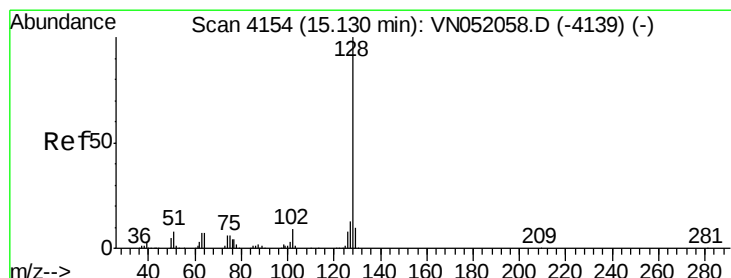
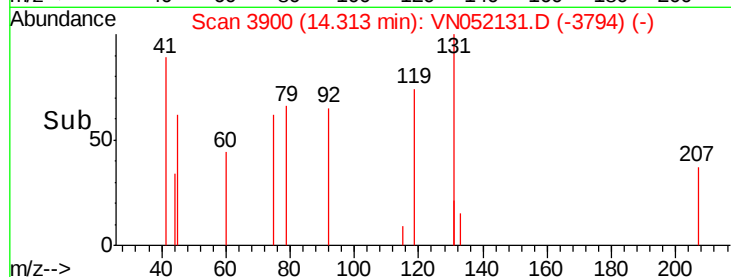
Ion 154.80 (154.50 to 155.50): VN052058.D (-3874) (-)

Ion 156.80 (156.50 to 157.50): VN052058.D (-3874) (-)

14.31

14.32

Time-->



#95

Naphthalene

Concen: 1.251 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN052131.D

Acq: 2 Nov 2018 16:10

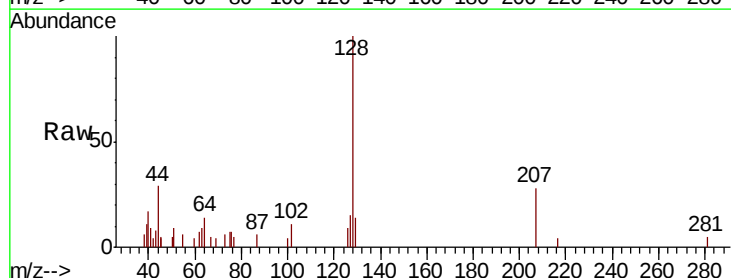
Tgt Ion: 128 Resp: 6797

Ion Ratio Lower Upper

128 100

127 15.0 10.5 15.7

129 14.3 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN052058.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052058.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052058.D (-4139) (-)

15.14

15.15

Time-->

